

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\  
 Data File : BF097453.D  
 Acq On : 8 Aug 2017 3:13  
 Operator : SJ/JU  
 Sample : I4614-02 2X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-N10-WSW

Manual Integrations  
 APPROVED

Sohil  
 8/9/2017 7:56:33 PM

Quant Time: Aug 08 07:24:00 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 07 16:02:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.41  | 152  | 177425   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.69  | 136  | 634525   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.43  | 164  | 239890   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 10.91 | 188  | 369815   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.53 | 240  | 351823   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 14.87 | 264  | 247174   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.00  | 112  | 330916   | 28.12 | ng    | 0.00     |
| 7) Phenol-d6                | 6.08  | 99   | 408364   | 30.39 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 6.98  | 82   | 356459   | 32.96 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.22 | 330  | 51790    | 27.32 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.77  | 172  | 454960   | 32.19 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.49 | 244  | 331766   | 19.23 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 14) 1,2-Dichlorobenzene     | 6.58  | 146  | 25479    | 2.171 | ng    | 94       |
| 48) Acenaphthylene          | 9.30  | 152  | 104002   | 4.494 | ng    | 99       |
| 49) Dimethylphthalate       | 9.17  | 163  | 46233    | 2.538 | ng    | 98       |
| 70) Phenanthrene            | 10.93 | 178  | 51277    | 2.588 | ng    | 97       |
| 74) Fluoranthene            | 12.12 | 202  | 88612    | 4.565 | ng    | 99       |
| 77) Pyrene                  | 12.34 | 202  | 146652   | 5.092 | ng    | 99       |
| 82) Chrysene                | 13.56 | 228  | 55517    | 2.498 | ng    | # 92     |
| 85) Indeno(1,2,3-cd)pyrene  | 16.07 | 276  | 58244    | 3.056 | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 14.53 | 252  | 82188m   | 5.531 | ng    |          |
| 89) Benzo(a)pyrene          | 14.83 | 252  | 69129    | 5.084 | ng    | 98       |
| 91) Benzo(a,h,i)perylene    | 16.42 | 276  | 105140   | 8.991 | ng    | 97       |

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

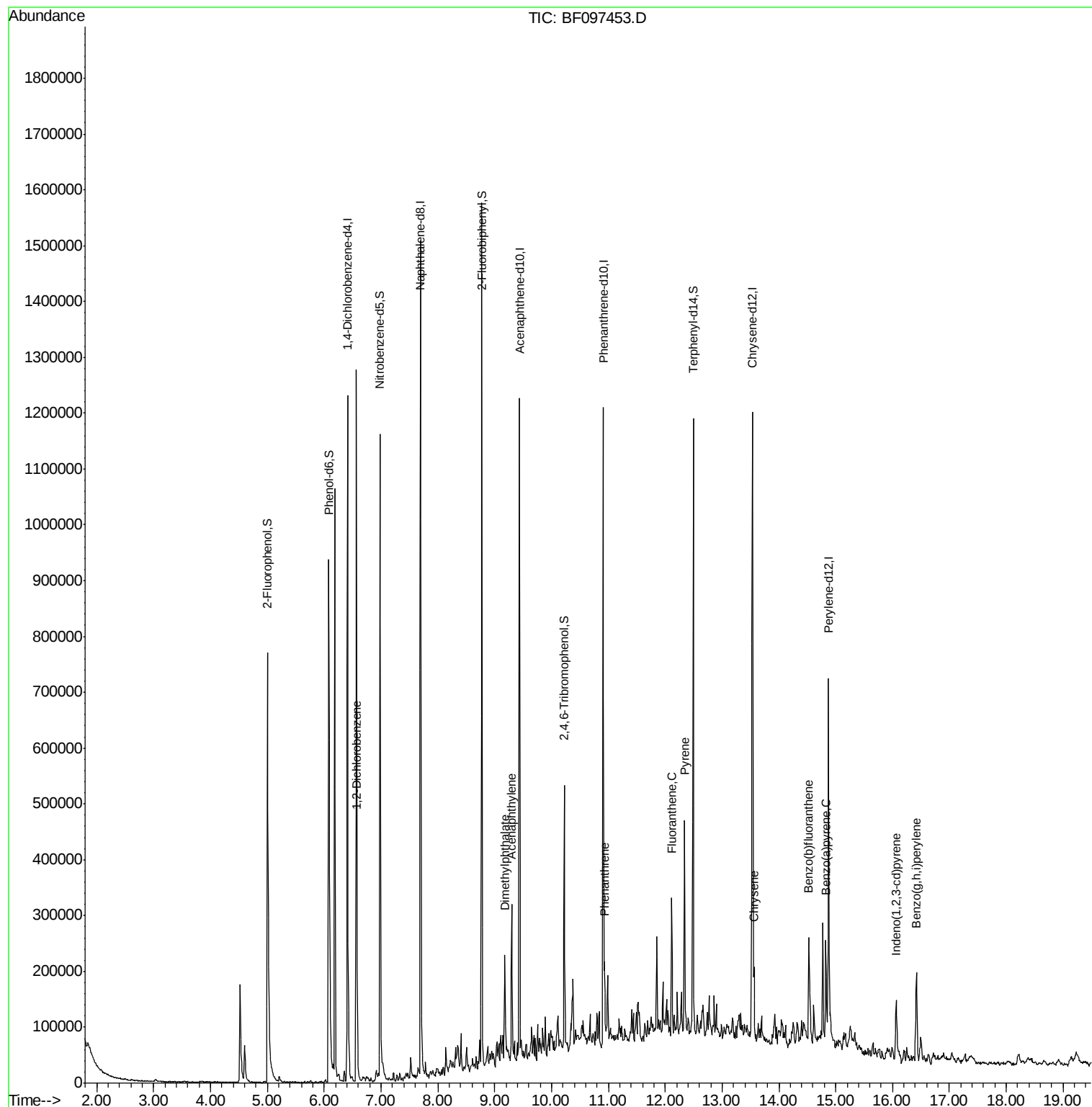
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\  
Data File : BF097453.D  
Acq On : 8 Aug 2017 3:13  
Operator : SJ/JU  
Sample : I4614-02 2X  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

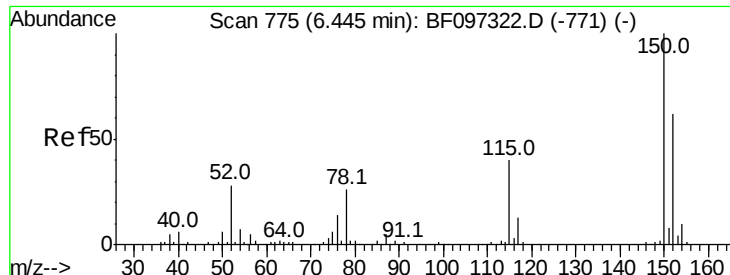
Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

Manual Integrations  
APPROVED

Sohil  
8/9/2017 7:56:33 PM

Quant Time: Aug 08 07:24:00 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 07 16:02:51 2017  
Response via : Initial Calibration





#1

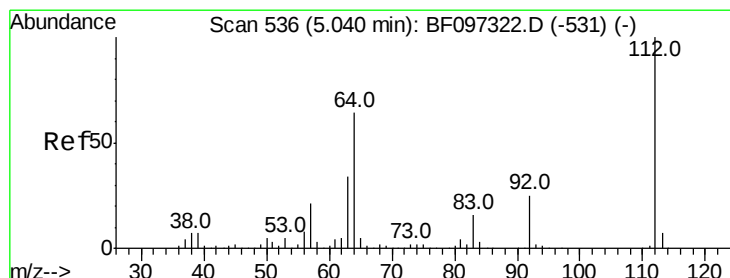
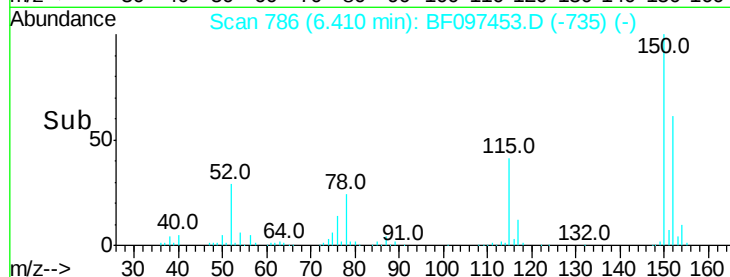
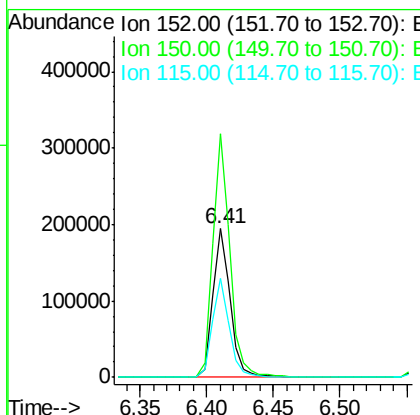
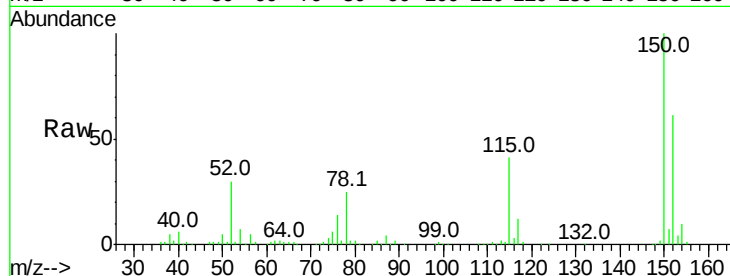
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.41 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 163.9 | 126.2 | 189.2 |
| 115     | 66.9  | 52.2  | 78.2  |

Manual Integrations  
APPROVED

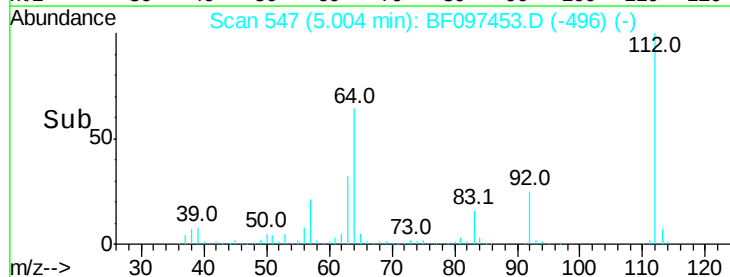
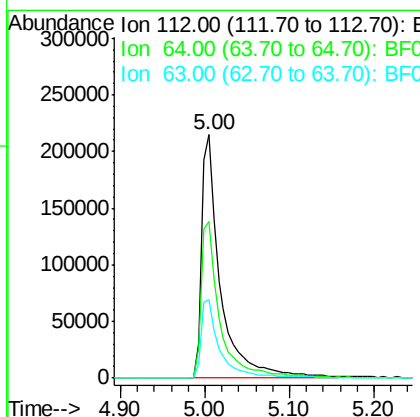
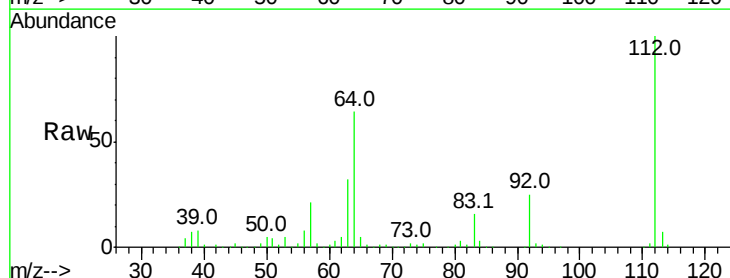
Sohil  
8/9/2017 7:56:33 PM

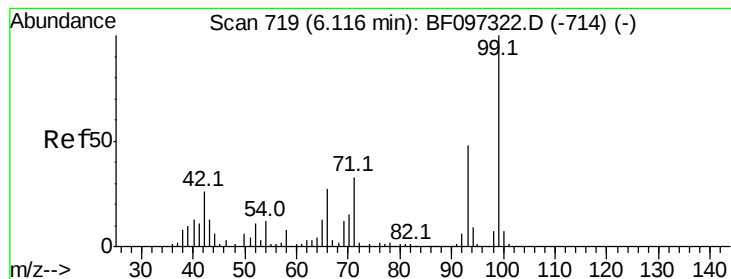


#5

2-Fluorophenol  
Concen: 28.116 ng  
RT: 5.00 min Scan# 547  
Delta R.T. 0.00 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.1  | 46.0  | 69.0  |
| 63      | 32.3  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 30.392 ng

RT: 6.08 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097453.D

Acq: 8 Aug 2017 3:13

Instrument :

BNA\_F

ClientSampleId :

E2-N10-WSW

Tot Ion: 99 Resp: 408364

Ion Ratio Lower Upper

99 100

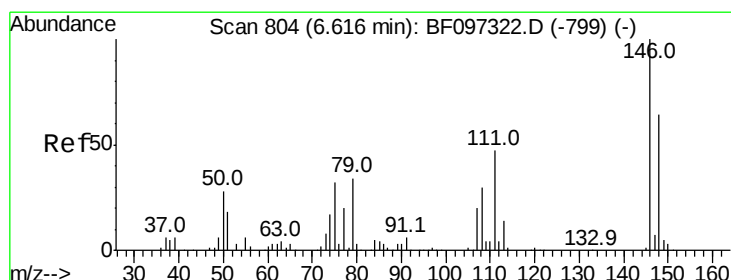
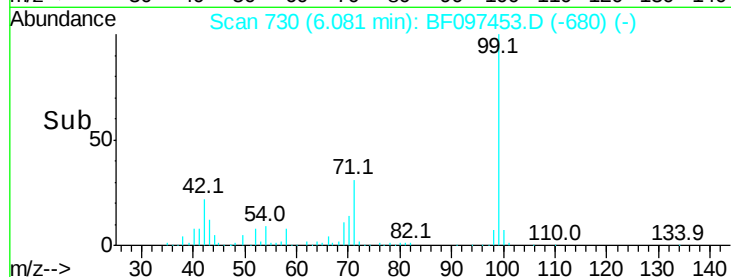
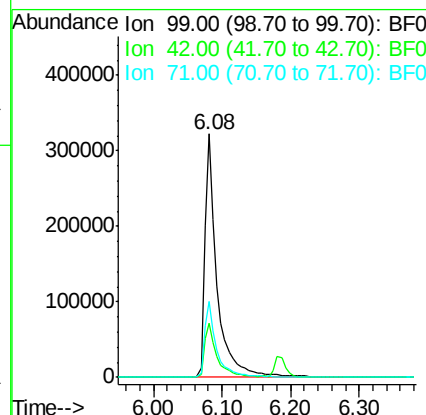
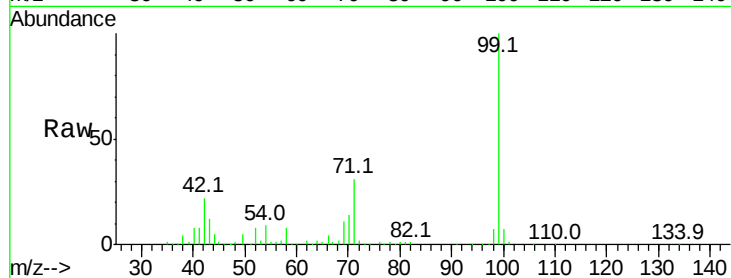
42 22.5 13.5 20.3#

71 31.4 24.5 36.7

Manual Integrations  
APPROVED

Sohil

8/9/2017 7:56:33 PM



#14

1,2-Dichlorobenzene

Concen: 2.171 ng

RT: 6.58 min Scan# 815

Delta R.T. 0.00 min

Lab File: BF097453.D

Acq: 8 Aug 2017 3:13

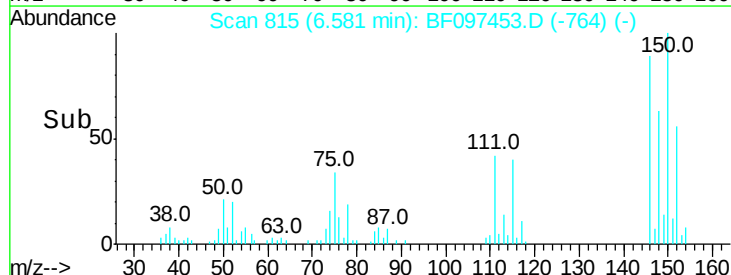
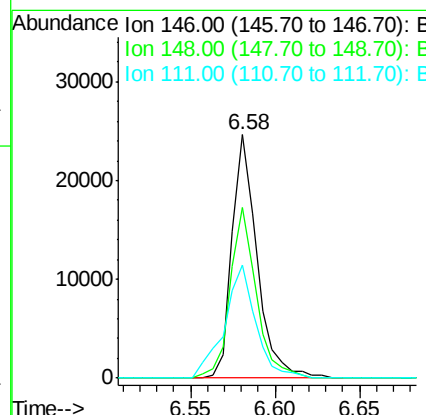
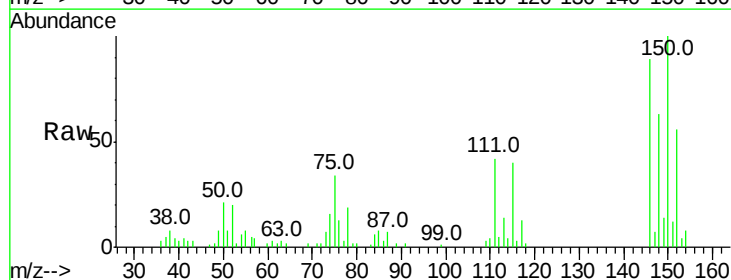
Tgt Ion: 146 Resp: 25479

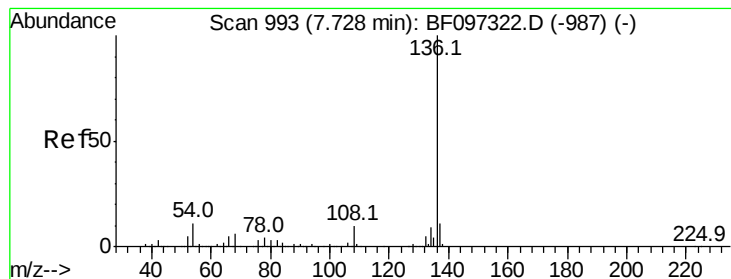
Ion Ratio Lower Upper

146 100

148 70.1 50.4 75.6

111 46.6 38.2 57.4





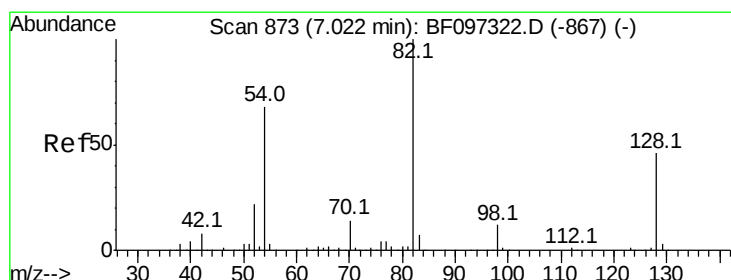
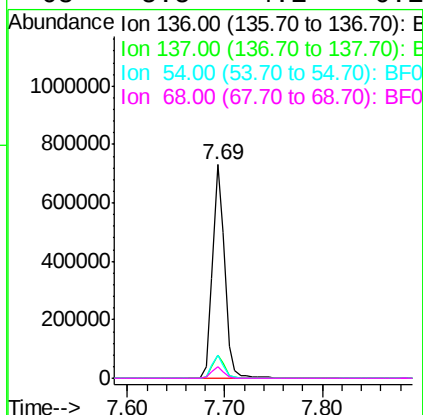
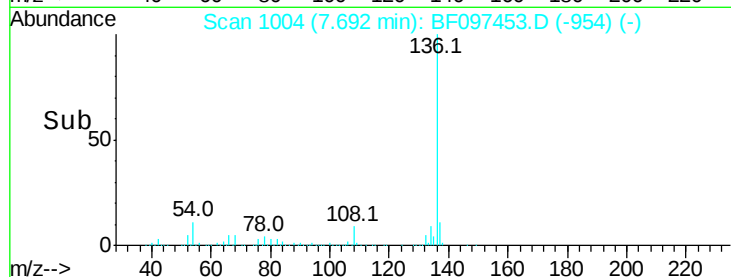
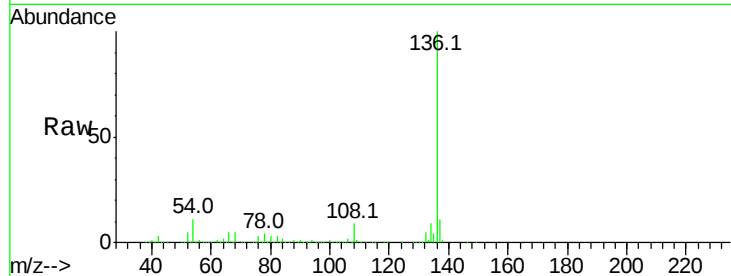
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.69 min Scan# 1004  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.9  | 8.5  | 12.7  |       |
| 54      | 10.5  | 4.9  | 7.3   |       |
| 68      | 5.5   | 4.1  | 6.1   |       |

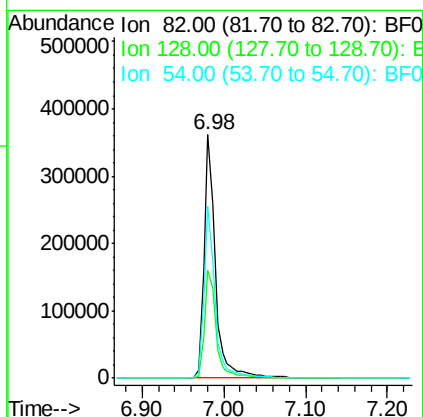
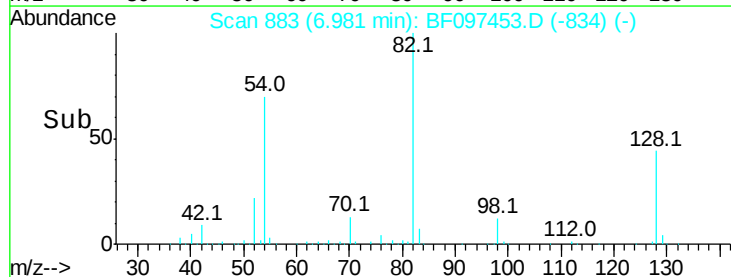
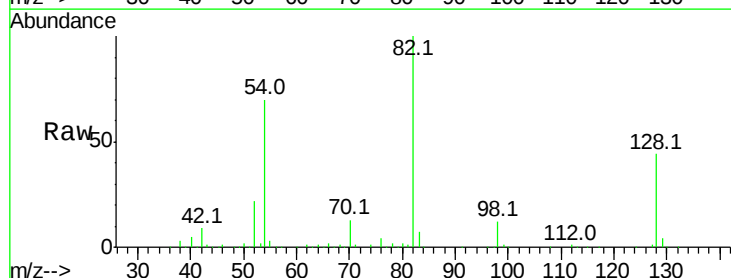
Manual Integrations  
APPROVED

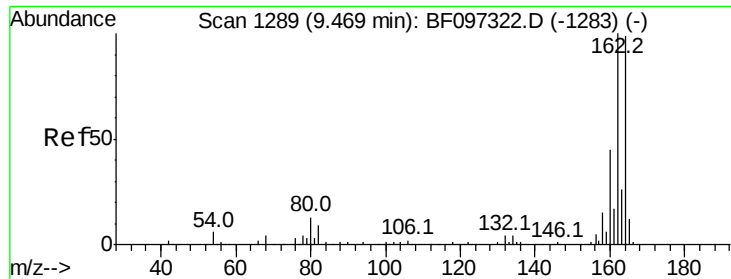
Sohil  
8/9/2017 7:56:33 PM



#23  
Nitrobenzene-d5  
Concen: 32.956 ng  
RT: 6.98 min Scan# 883  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 44.3  | 34.0 | 51.0  |       |
| 54      | 70.5  | 42.2 | 63.2  |       |





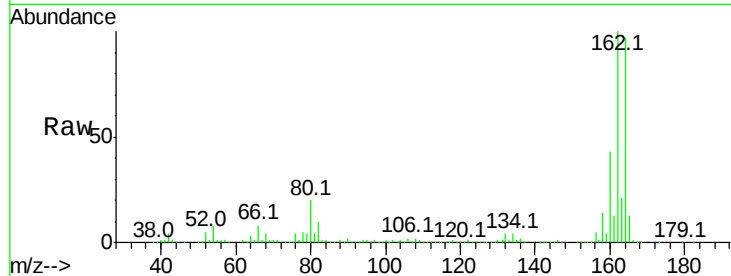
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.43 min Scan# 1300  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

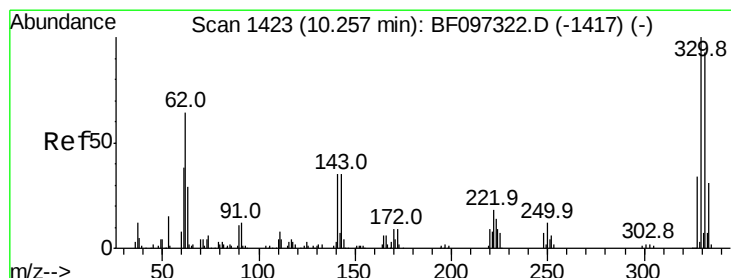
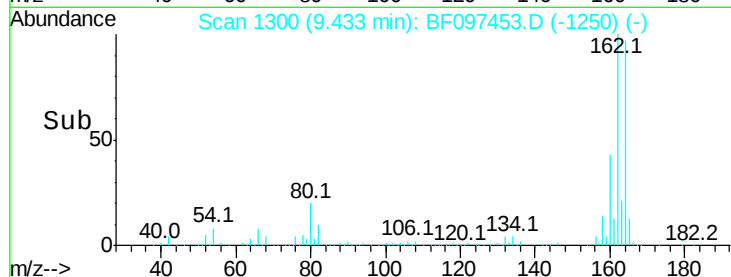
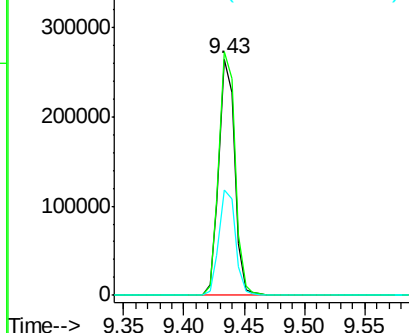
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 103.2 | 82.6 | 123.8 |       |
| 160     | 44.5  | 36.2 | 54.2  |       |

Manual Integrations  
APPROVED

Sohil  
8/9/2017 7:56:33 PM

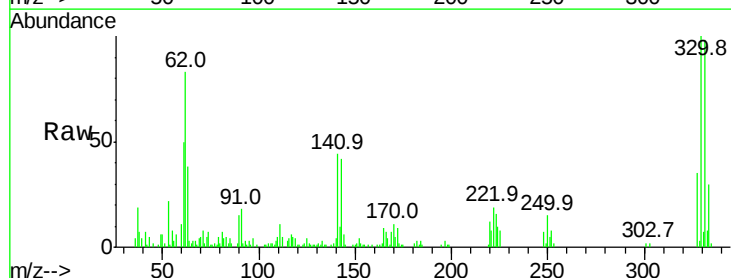


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

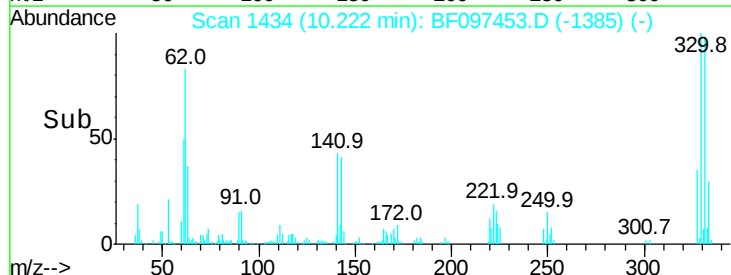
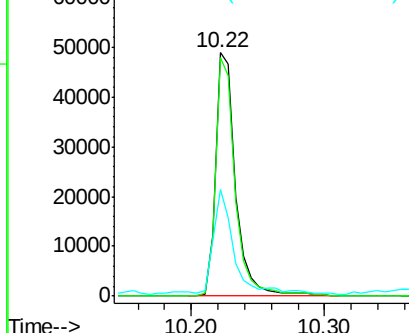


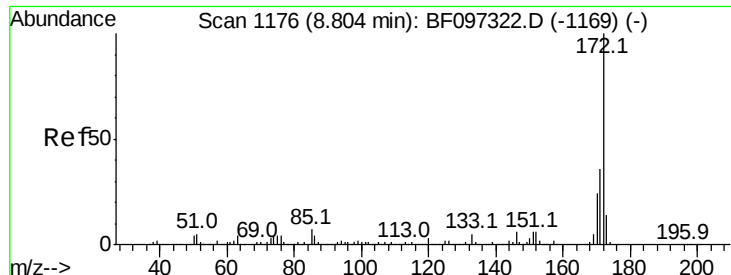
#41  
2,4,6-Tribromophenol  
Concen: 27.325 ng  
RT: 10.22 min Scan# 1434  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.2  | 76.6 | 115.0 |       |
| 141     | 43.4  | 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





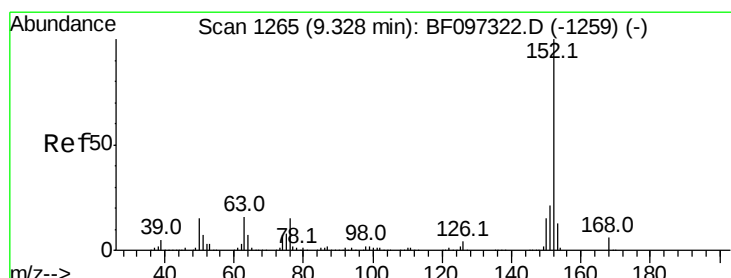
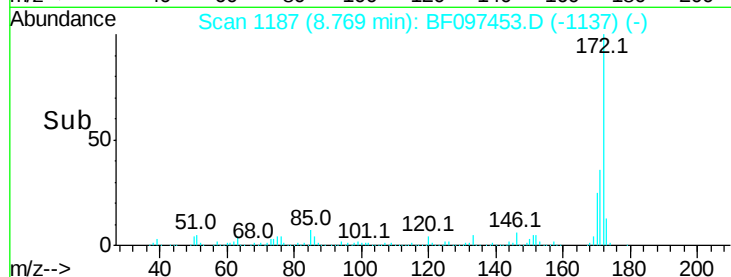
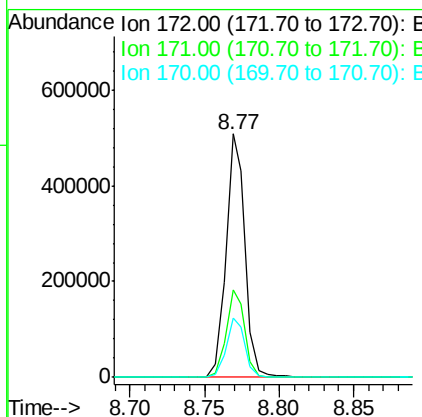
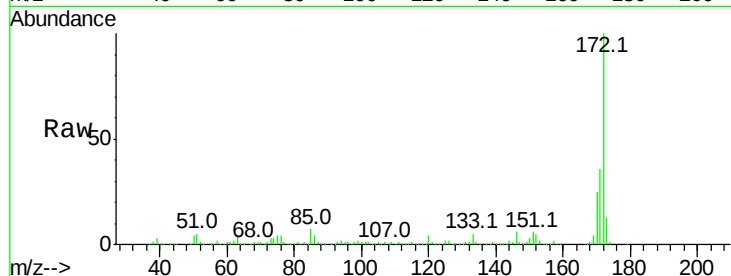
#44  
2-Fluorobiphenyl  
Concen: 32.186 ng  
RT: 8.77 min Scan# 1187  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 454960 |       |       |
| 171     | 36.0  |        | 29.6  | 44.4  |
| 170     | 24.6  |        | 19.8  | 29.8  |

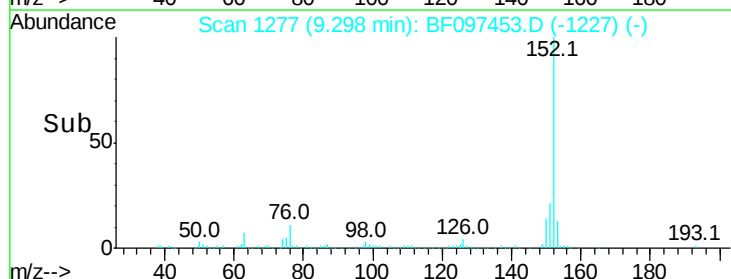
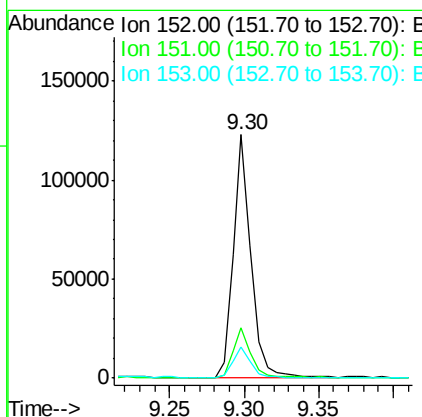
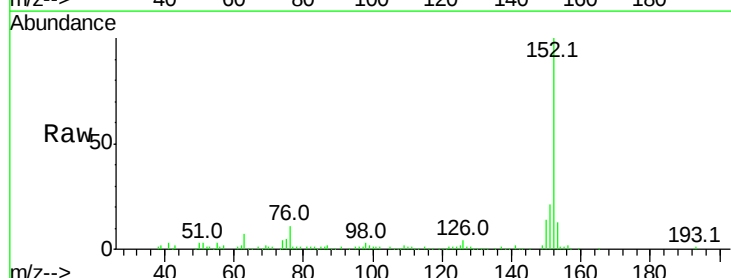
Manual Integrations  
APPROVED

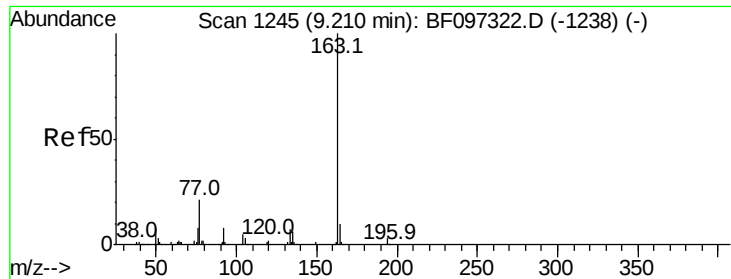
Sohil  
8/9/2017 7:56:33 PM



#48  
Acenaphthylene  
Concen: 4.494 ng  
RT: 9.30 min Scan# 1277  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 104002 |       |       |
| 151     | 20.6  |        | 16.8  | 25.2  |
| 153     | 12.6  |        | 10.8  | 16.2  |





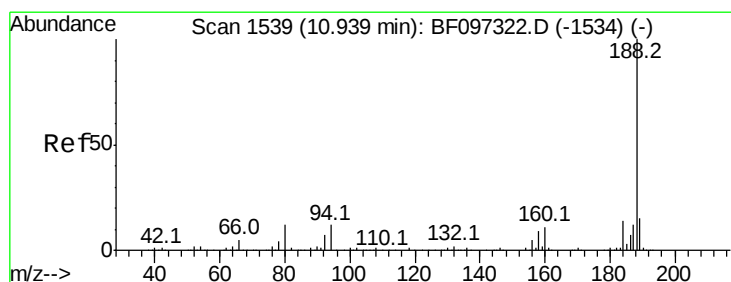
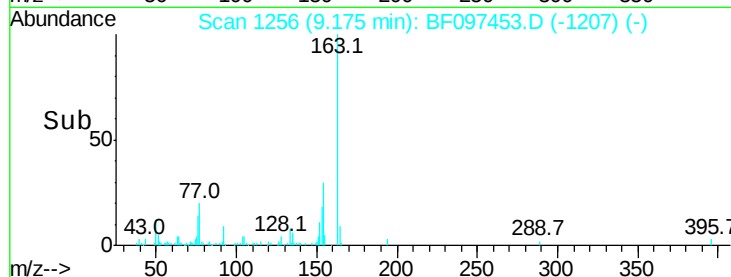
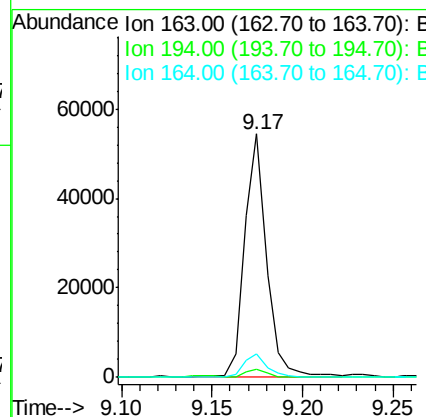
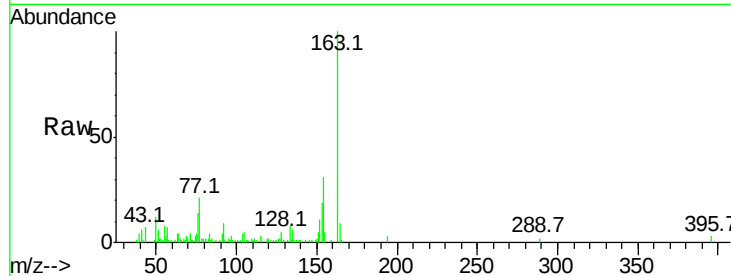
#49  
Dimethylphthalate  
Concen: 2.538 ng  
RT: 9.17 min Scan# 1256  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.3   | 2.6  | 4.0   |       |
| 164     | 9.4   | 8.4  | 12.6  |       |

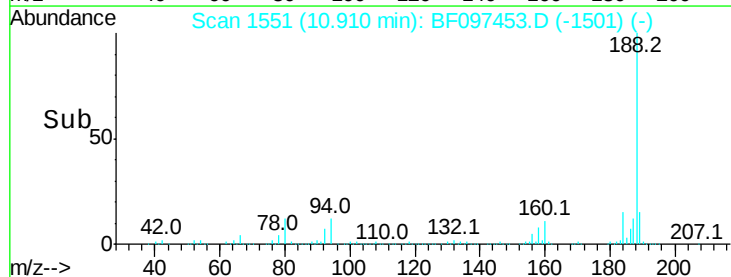
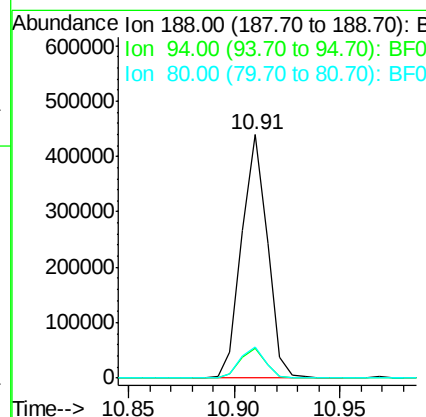
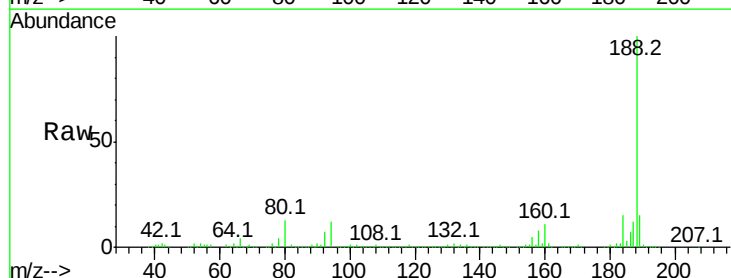
Manual Integrations  
APPROVED

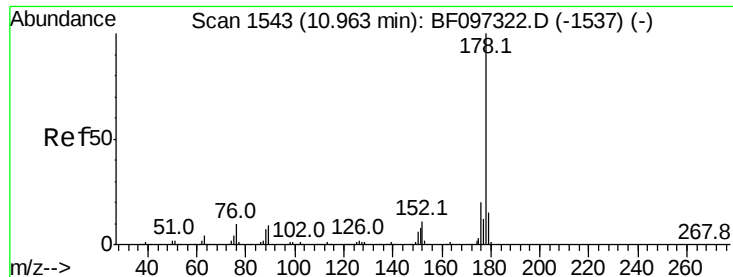
Sohil  
8/9/2017 7:56:33 PM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 10.91 min Scan# 1551  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 12.5  | 9.4  | 14.2  |       |
| 80      | 12.6  | 10.2 | 15.2  |       |





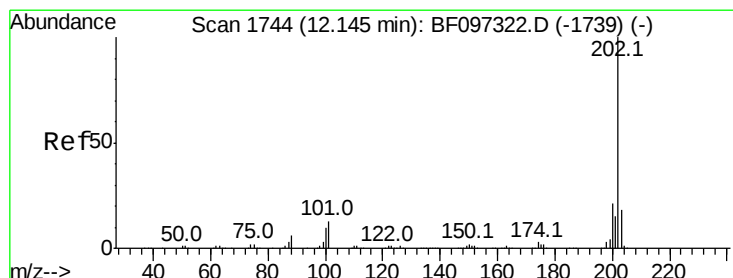
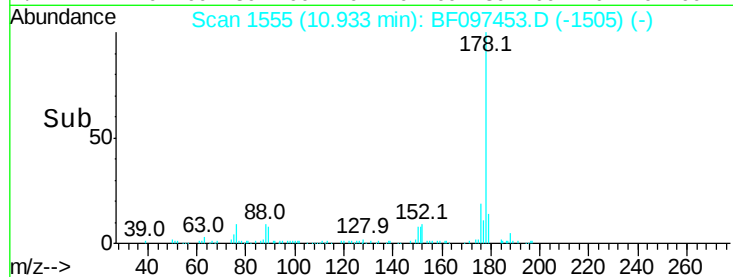
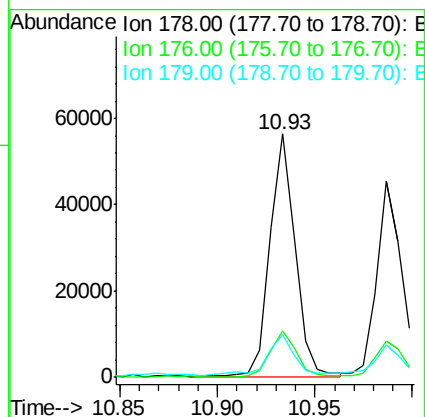
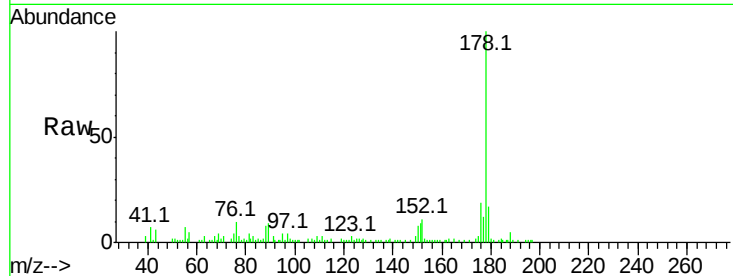
#70  
Phenanthrene  
Concen: 2.588 ng  
RT: 10.93 min Scan# 1555  
Delta R.T. -0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 51277 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.9  | 16.2  | 24.4  |
| 179       | 17.4  | 12.6  | 19.0  |

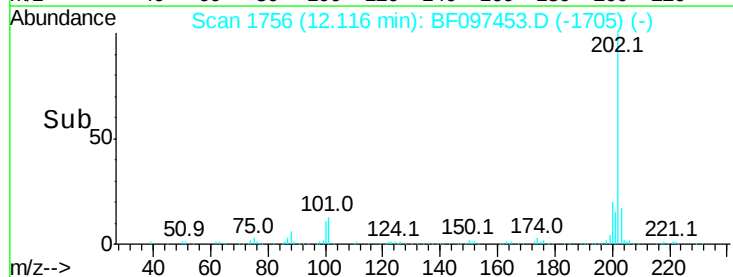
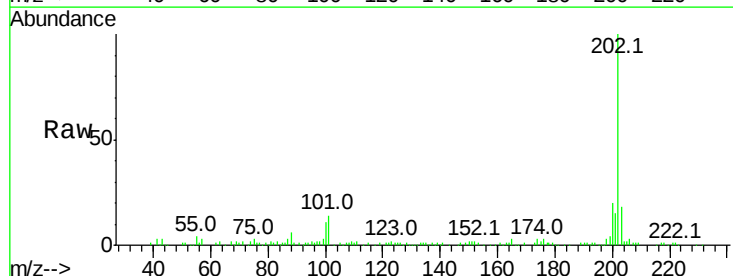
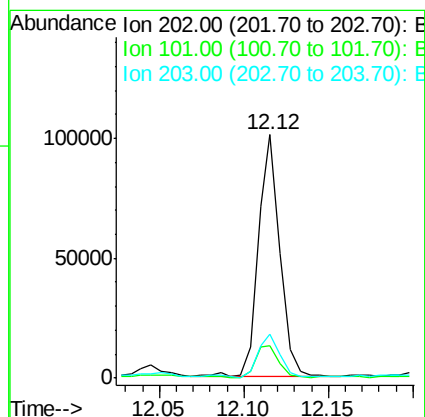
Manual Integrations  
APPROVED

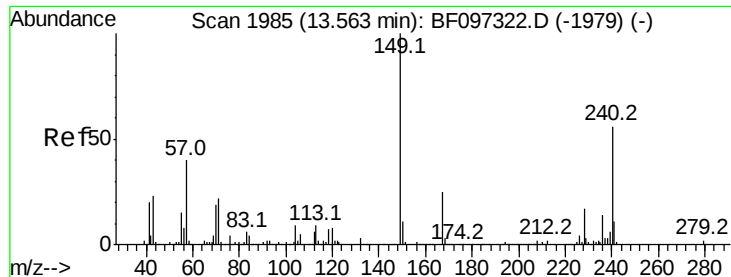
Sohil  
8/9/2017 7:56:33 PM



#74  
Fluoranthene  
Concen: 4.565 ng  
RT: 12.12 min Scan# 1756  
Delta R.T. 0.00 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 88612 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.5  | 0.0   | 33.2  |
| 203       | 17.9  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.53 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF097453.D

Acq: 8 Aug 2017 3:13

Instrument :

BNA\_F

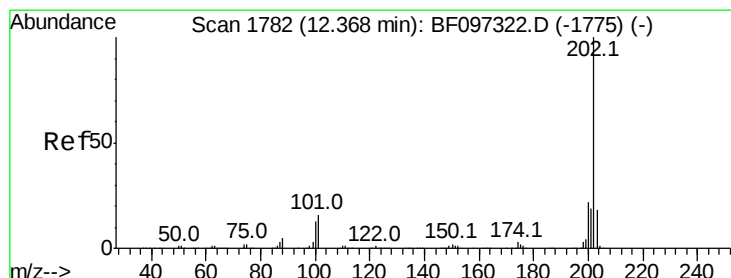
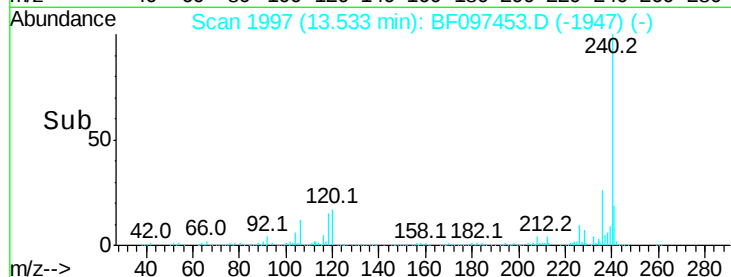
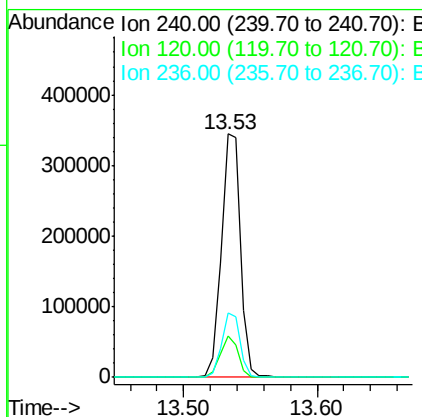
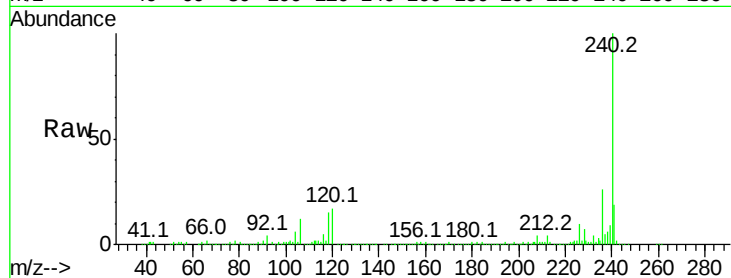
ClientSampleId :

E2-N10-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 16.8  | 5.8   | 8.8#  |
| 236     | 26.5  | 20.5  | 30.7  |

Manual Integrations  
APPROVED

Sohil  
8/9/2017 7:56:33 PM



#77

Pyrene

Concen: 5.092 ng

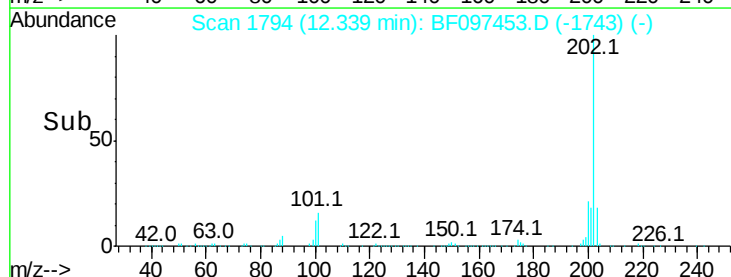
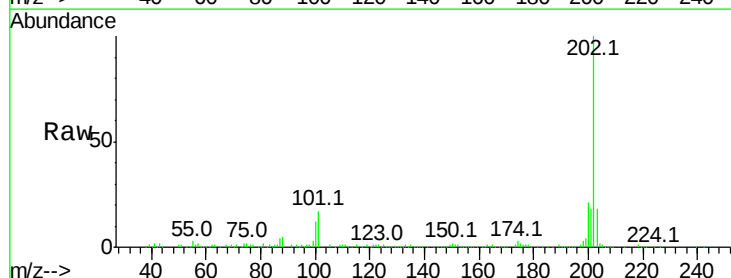
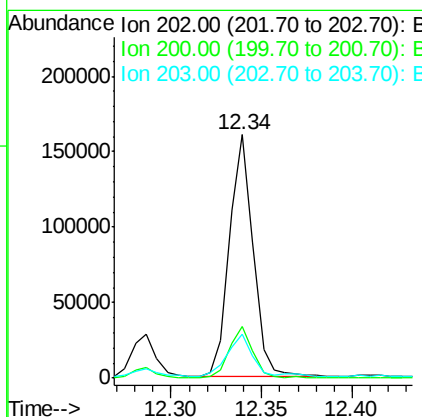
RT: 12.34 min Scan# 1794

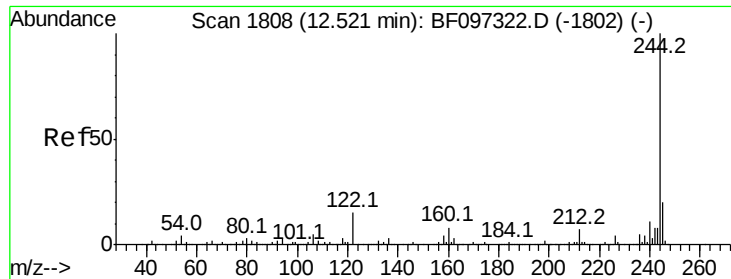
Delta R.T. 0.00 min

Lab File: BF097453.D

Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.6  | 26.4  |
| 203     | 18.1  | 14.4  | 21.6  |





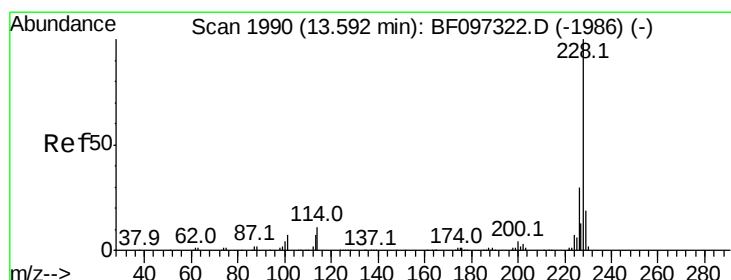
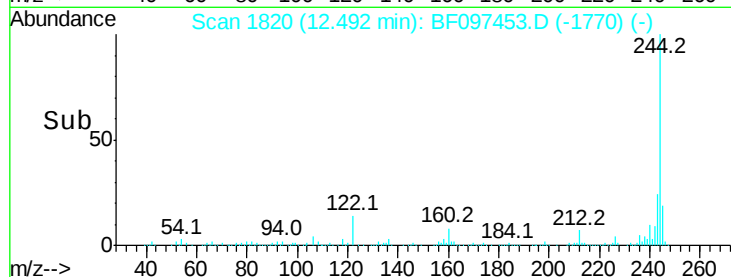
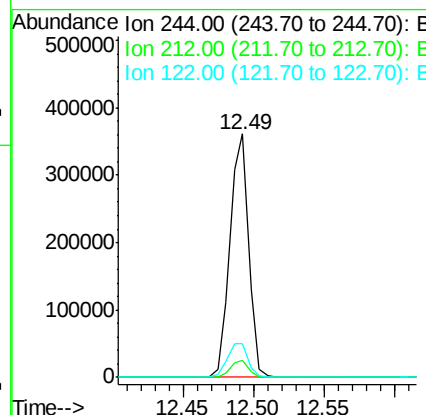
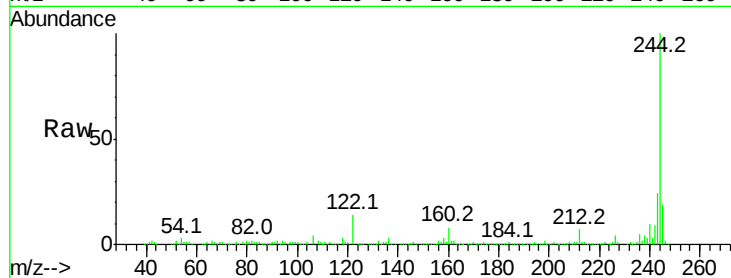
#78  
 Terphenyl-d14  
 Concen: 19.226 ng  
 RT: 12.49 min Scan# 1820  
 Delta R.T. -0.01 min  
 Lab File: BF097453.D  
 Acq: 8 Aug 2017 3:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-N10-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.0   | 9.0   |
| 122     | 14.1  | 10.3  | 15.5  |

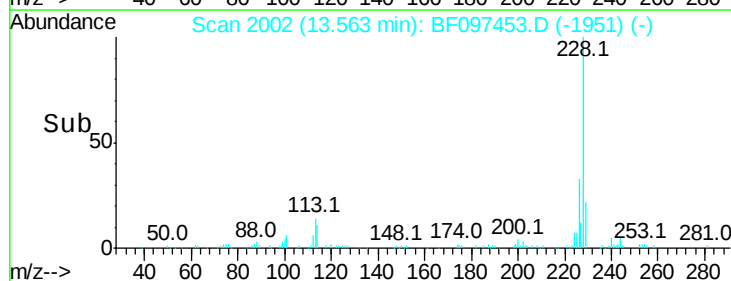
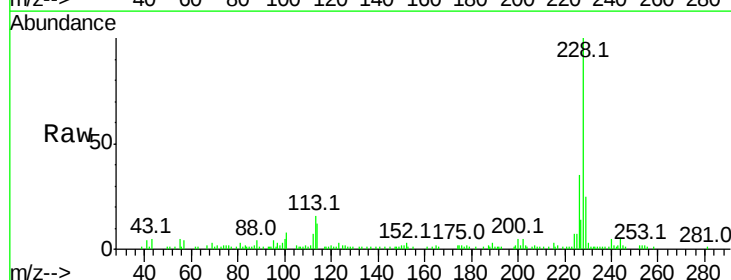
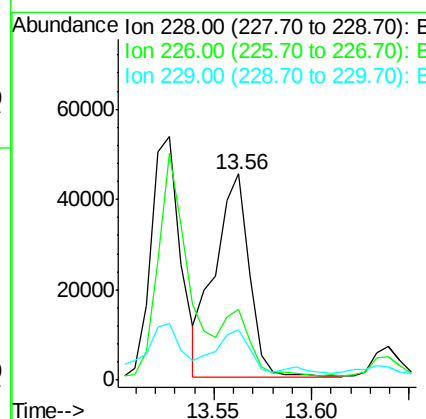
Manual Integrations  
 APPROVED

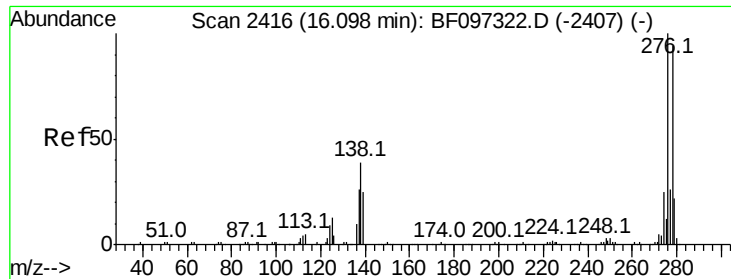
Sohil  
 8/9/2017 7:56:33 PM



#82  
 Chrysene  
 Concen: 2.498 ng  
 RT: 13.56 min Scan# 2002  
 Delta R.T. 0.00 min  
 Lab File: BF097453.D  
 Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.6  | 24.9  | 37.3  |
| 229     | 24.5  | 15.8  | 23.6  |





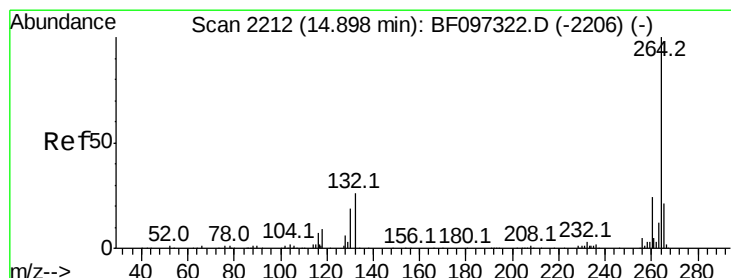
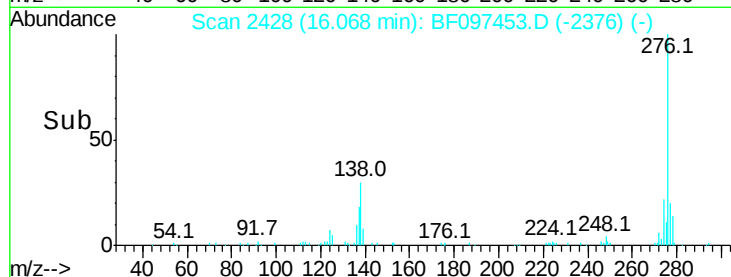
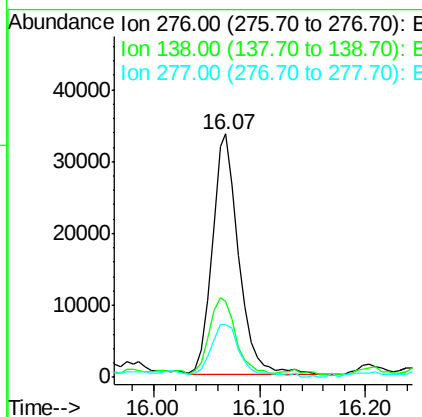
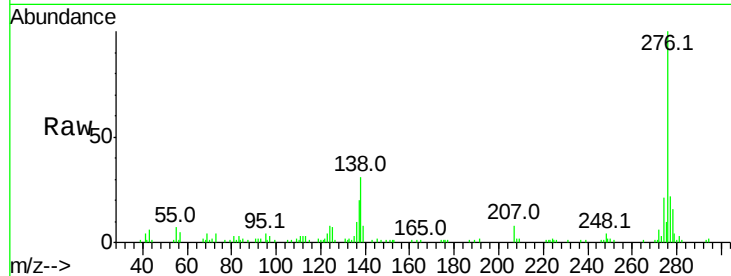
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.056 ng  
RT: 16.07 min Scan# 2428  
Delta R.T. 0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 58244 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 31.2  | 27.8  | 41.6  |
| 277       | 25.5  | 20.2  | 30.4  |

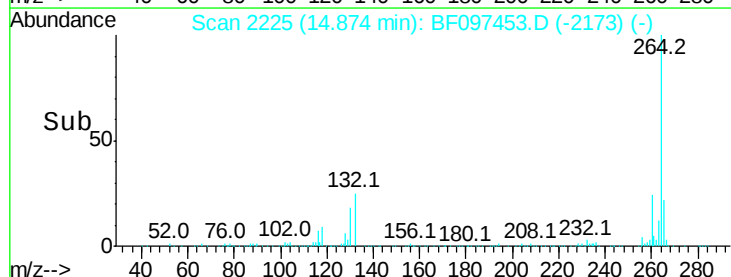
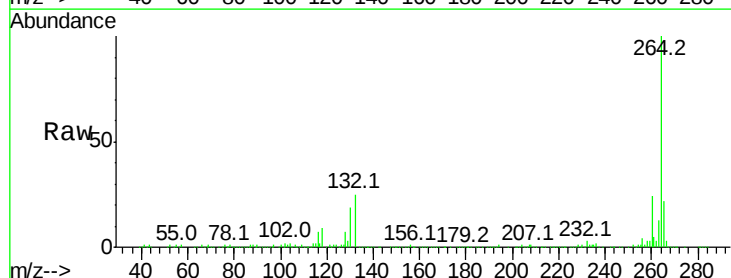
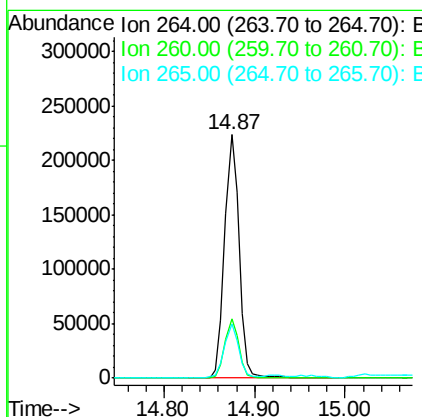
Manual Integrations  
APPROVED

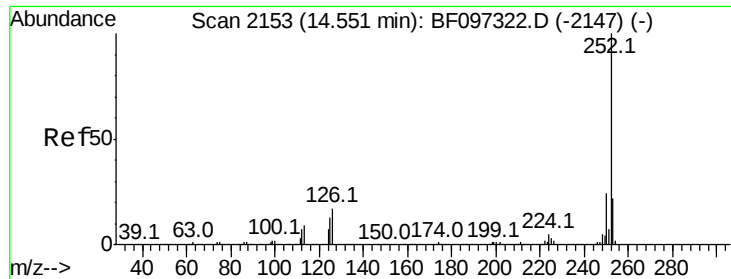
Sohil  
8/9/2017 7:56:33 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 14.87 min Scan# 2225  
Delta R.T. 0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 247174 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.2  | 19.5  | 29.3   |
| 265       | 22.3  | 17.2  | 25.8   |





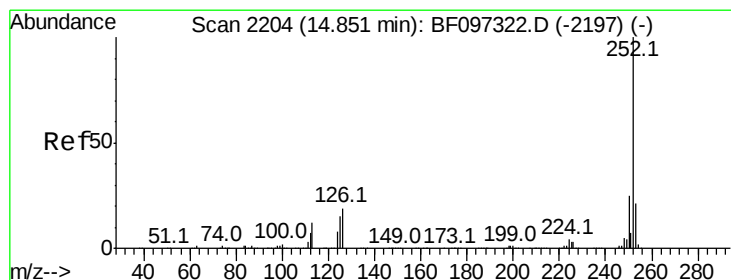
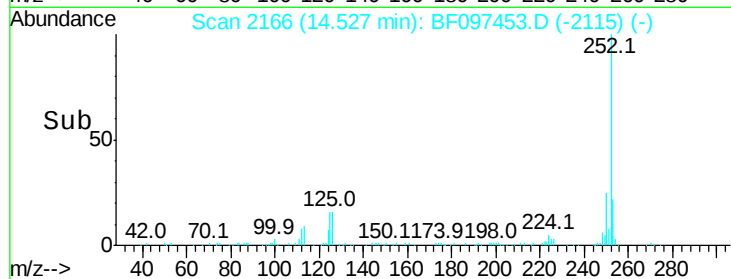
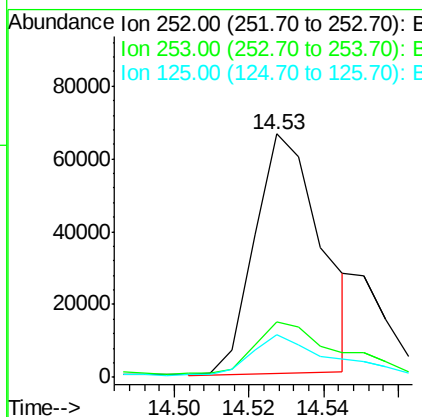
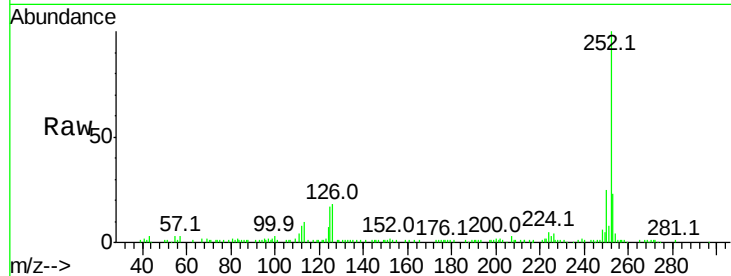
#87  
Benzo(b)fluoranthene  
Concen: 5.531 ng m  
RT: 14.53 min Scan# 2166  
Delta R.T. 0.00 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

Instrument :  
BNA\_F  
ClientSampleId :  
E2-N10-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.1  | 27.1  |
| 125     | 17.3  | 9.8   | 14.8  |

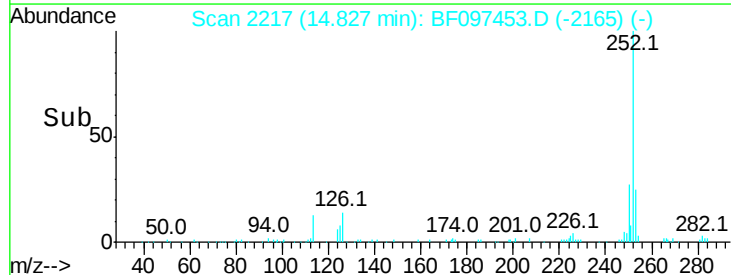
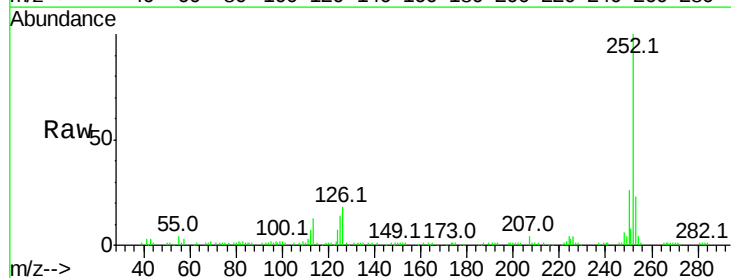
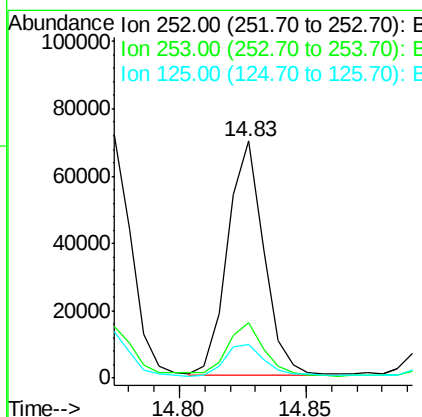
Manual Integrations  
APPROVED

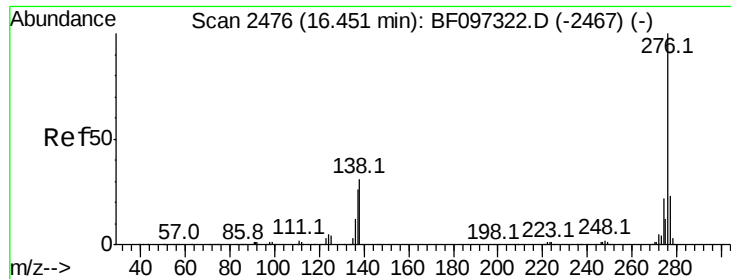
Sohil  
8/9/2017 7:56:33 PM



#89  
Benzo(a)pyrene  
Concen: 5.084 ng  
RT: 14.83 min Scan# 2217  
Delta R.T. 0.01 min  
Lab File: BF097453.D  
Acq: 8 Aug 2017 3:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.5  | 26.3  |
| 125     | 14.0  | 11.0  | 16.4  |





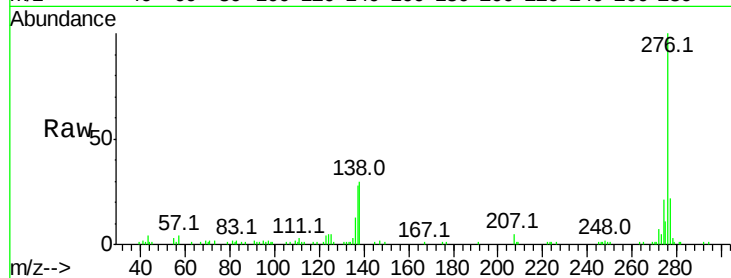
#91  
 Benzo(a,h,i)perylene  
 Concen: 8.991 ng  
 RT: 16.42 min Scan# 2488  
 Delta R.T. 0.01 min  
 Lab File: BF097453.D  
 Acq: 8 Aug 2017 3:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-N10-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 21.9  | 18.6  | 28.0  |
| 138     | 29.6  | 25.4  | 38.0  |

Manual Integrations  
 APPROVED

Sohil  
 8/9/2017 7:56:33 PM



Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 277.00 (276.70 to 277.70): E  
 Ion 138.00 (137.70 to 138.70): E

