

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011420\  
 Data File : BP001599.D  
 Acq On : 14 Jan 2020 21:47  
 Operator : JU  
 Sample : L1004-06  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 BU-RO-234

Quant Time: Jan 14 23:23:31 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP010820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 14 21:52:04 2020  
 Response via : Initial Calibration

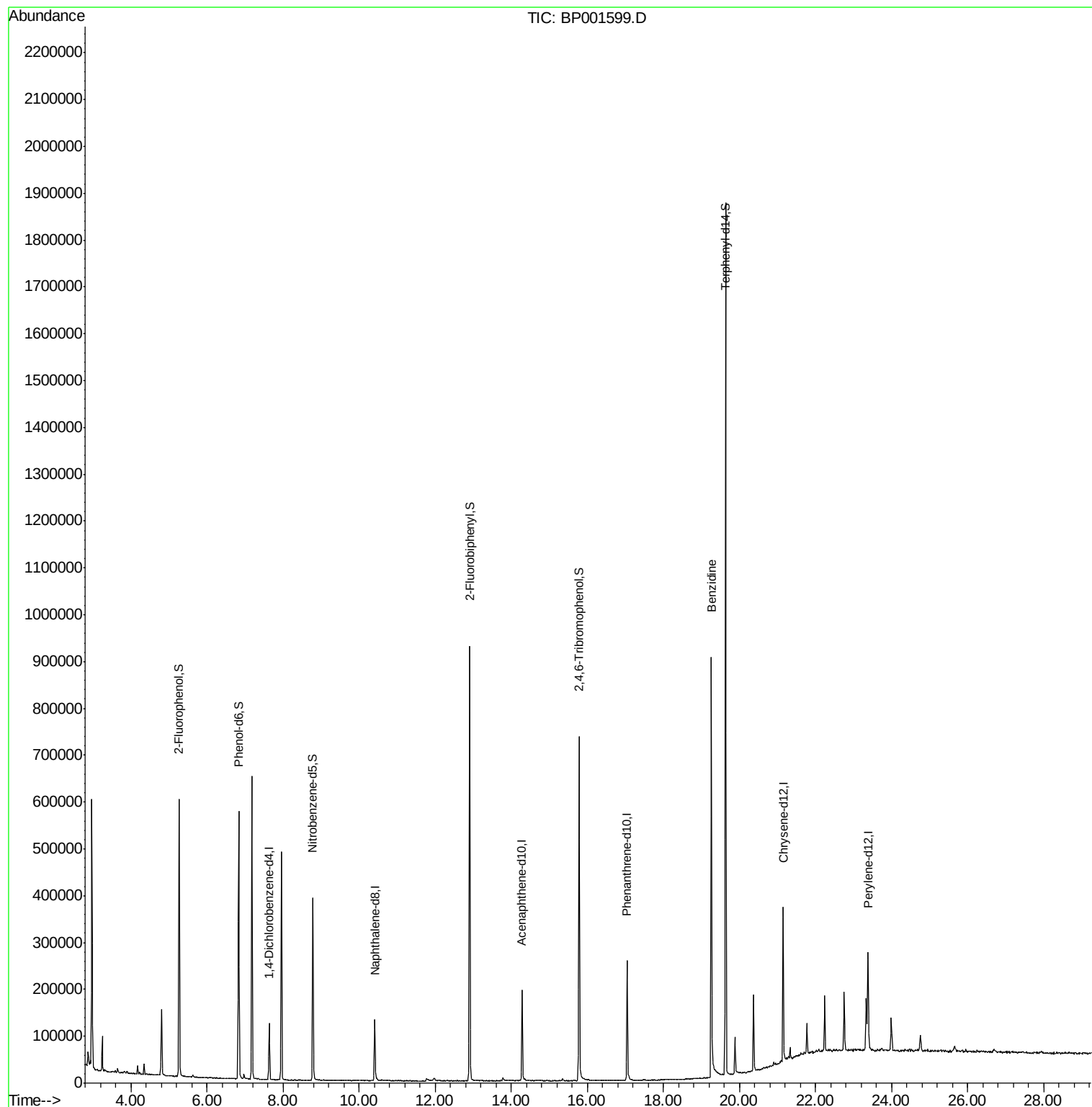
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|---------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.64  | 152  | 25526    | 20.00   | ng    | 0.00         |
| 21) Naphthalene-d8          | 10.41 | 136  | 89532    | 20.00   | ng    | 0.00         |
| 39) Acenaphthene-d10        | 14.28 | 164  | 62428    | 20.00   | ng    | 0.00         |
| 64) Phenanthrene-d10        | 17.05 | 188  | 148115   | 20.00   | ng    | 0.00         |
| 76) Chrysene-d12            | 21.15 | 240  | 156714   | 20.00   | ng    | 0.00         |
| 87) Perylene-d12            | 23.38 | 264  | 159229   | 20.00   | ng    | -0.01        |
| System Monitoring Compounds |       |      |          |         |       |              |
| 5) 2-Fluorophenol           | 5.27  | 112  | 187742   | 144.08  | ng    | 0.00         |
| 7) Phenol-d6                | 6.83  | 99   | 236236   | 113.43  | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 8.78  | 82   | 193981   | 94.68   | ng    | 0.00         |
| 42) 2,4,6-Tribromophenol    | 15.79 | 330  | 115852   | 121.91  | ng    | 0.00         |
| 45) 2-Fluorobiphenyl        | 12.90 | 172  | 424978   | 100.09  | ng    | 0.00         |
| 79) Terphenyl-d14           | 19.63 | 244  | 800523   | 93.43   | ng    | 0.00         |
| Target Compounds            |       |      |          |         |       |              |
| 77) Benzidine               | 19.26 | 184  | 515211   | 143.981 | ng    | Qvalue<br>98 |

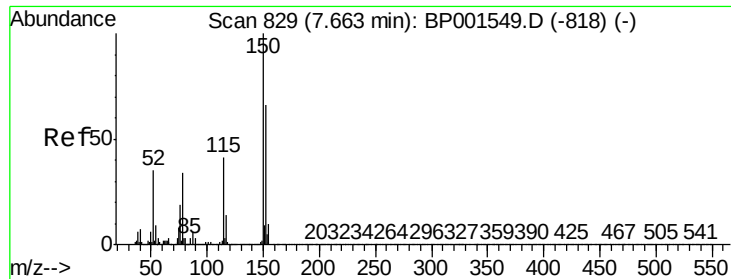
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011420\  
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Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
BU-RO-234

Quant Time: Jan 14 23:23:31 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP010820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 14 21:52:04 2020  
Response via : Initial Calibration



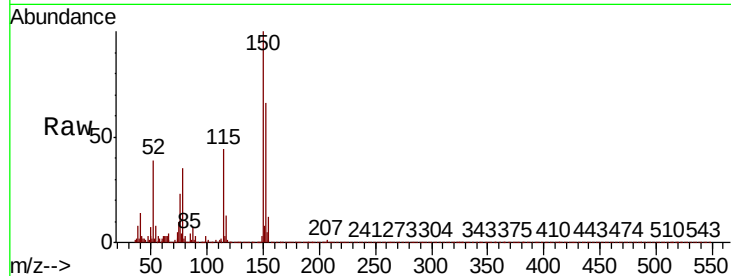


#1

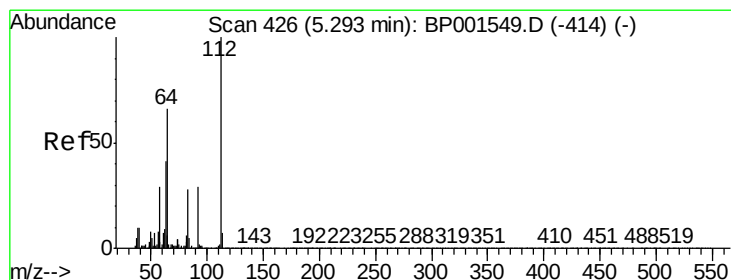
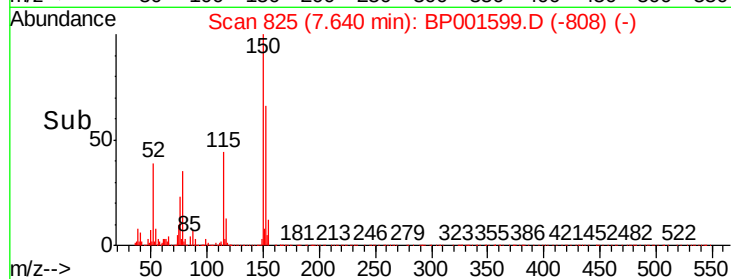
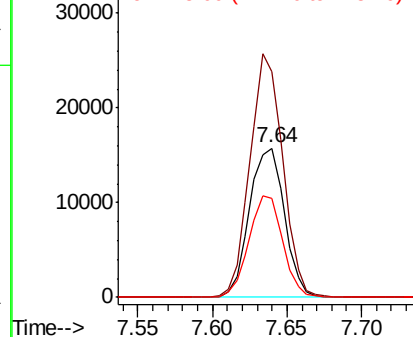
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.64 min Scan# 825  
Delta R.T. -0.00 min  
Lab File: BP001599.D  
Acq: 14 Jan 2020 21:47

Instrument :  
BNA\_P  
ClientSampleId :  
BU-RO-234

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.2 | 122.0 | 183.0 |
| 115     | 66.2  | 50.7  | 76.1  |



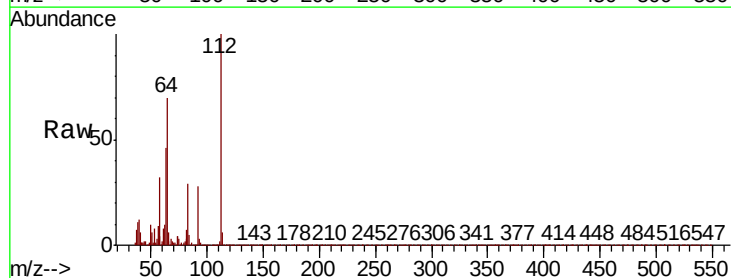
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



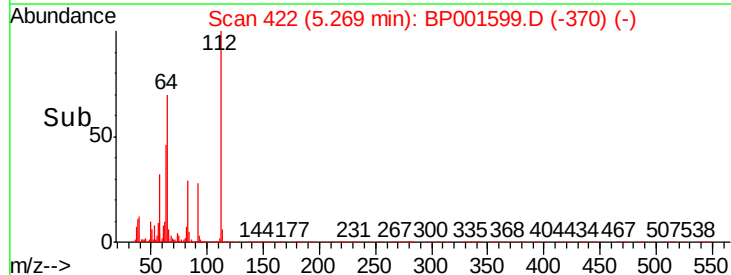
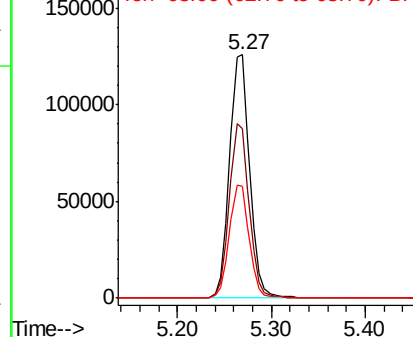
#5

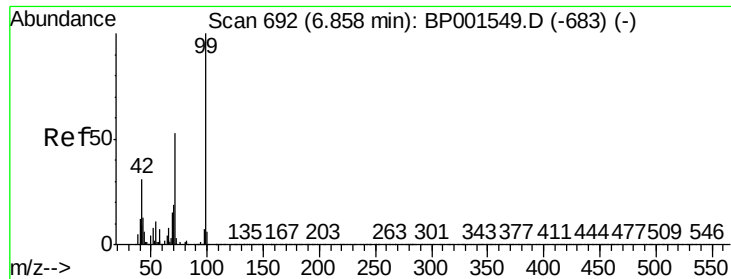
2-Fluorophenol  
Concen: 144.076 ng  
RT: 5.27 min Scan# 422  
Delta R.T. 0.01 min  
Lab File: BP001599.D  
Acq: 14 Jan 2020 21:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.8  | 52.8  | 79.2  |
| 63      | 45.7  | 33.1  | 49.7  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BP0  
Ion 63.00 (62.70 to 63.70): BP0





#7

Phenol-d6

Concen: 113.435 ng

RT: 6.83 min Scan# 688

Delta R.T. -0.00 min

Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

Instrument :

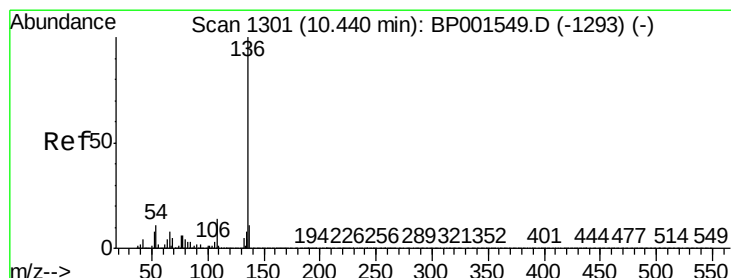
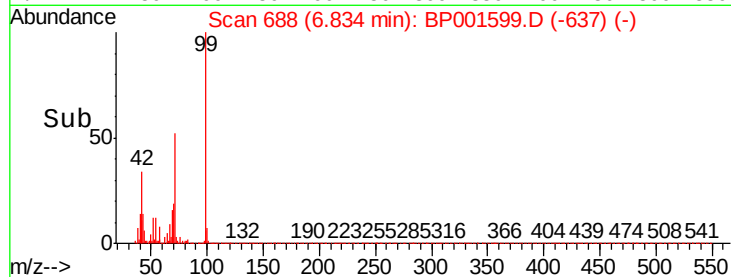
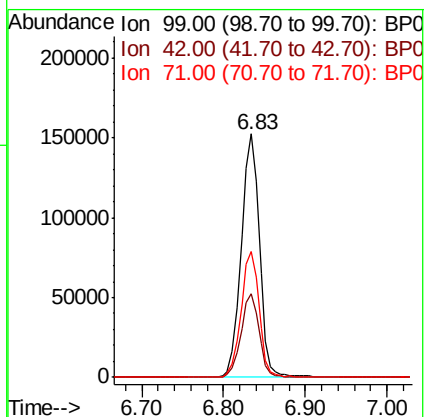
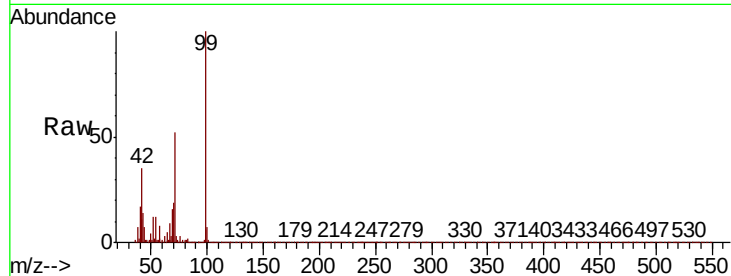
BNA\_P

ClientSampleId :

BU-RO-234

Tot Ion: 99 Resp: 236236

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 34.5  | 24.5  | 36.7  |
| 71  | 51.7  | 42.4  | 63.6  |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.41 min Scan# 1296

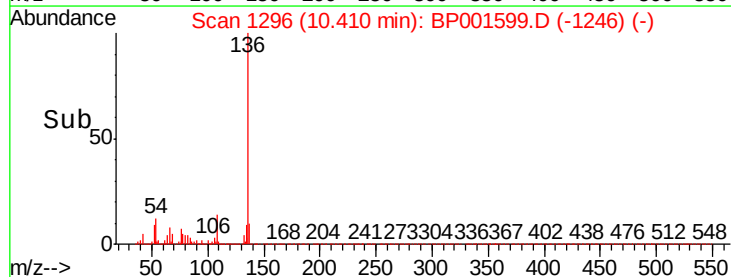
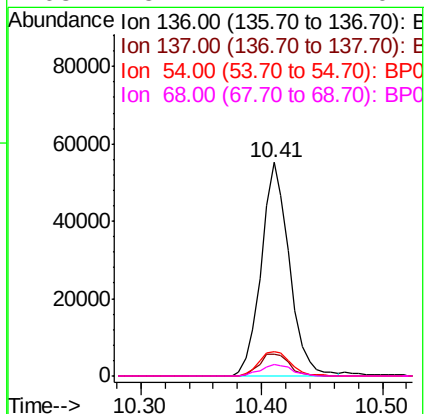
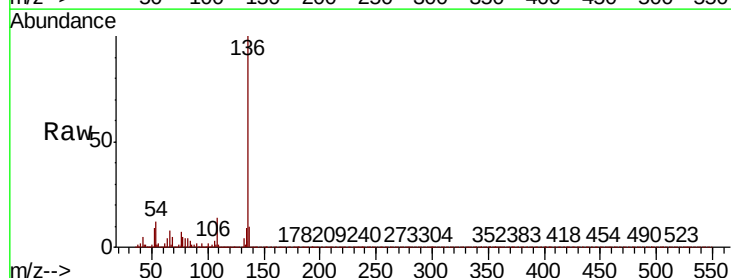
Delta R.T. -0.01 min

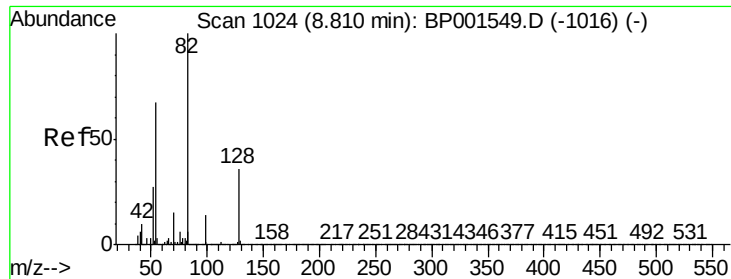
Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

Tgt Ion: 136 Resp: 89532

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.3  | 8.6   | 12.8  |
| 54  | 11.7  | 9.2   | 13.8  |
| 68  | 5.2   | 4.1   | 6.1   |





#23

Nitrobenzene-d5

Concen: 94.676 ng

RT: 8.78 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

Instrument :

BNA\_P

ClientSampleId :

BU-RO-234

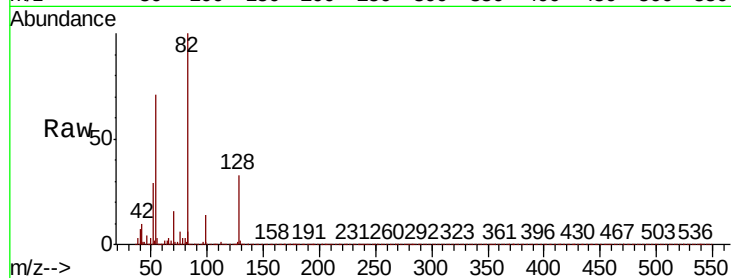
Tot Ion: 82 Resp: 193981

Ion Ratio Lower Upper

82 100

128 32.8 28.4 42.6

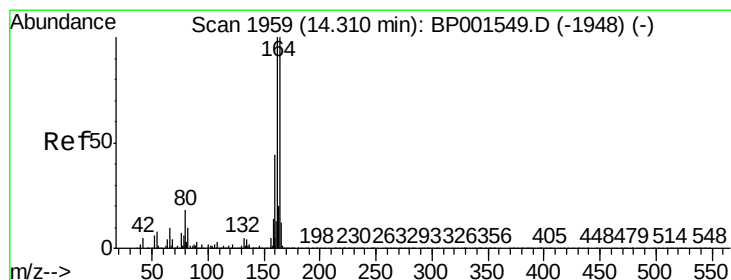
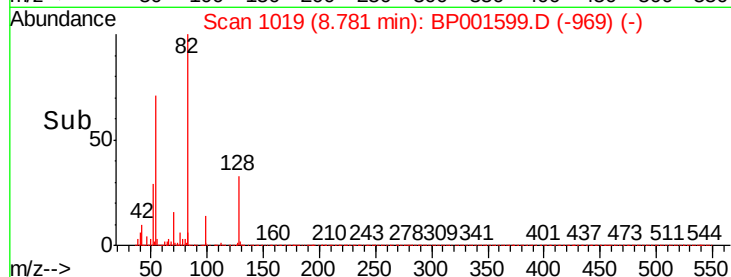
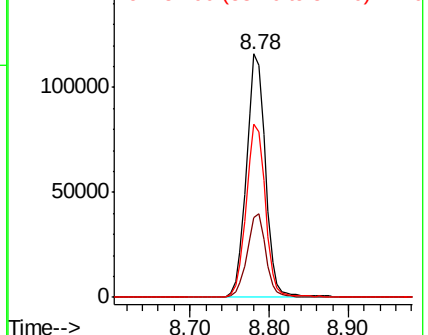
54 71.2 53.4 80.2



Abundance Ion 82.00 (81.70 to 82.70): BP0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BP0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.28 min Scan# 1954

Delta R.T. -0.01 min

Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

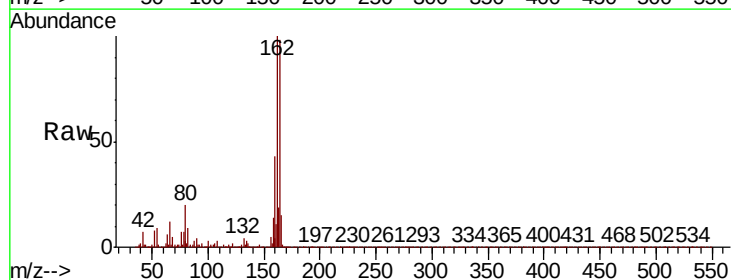
Tgt Ion:164 Resp: 62428

Ion Ratio Lower Upper

164 100

162 101.8 79.8 119.6

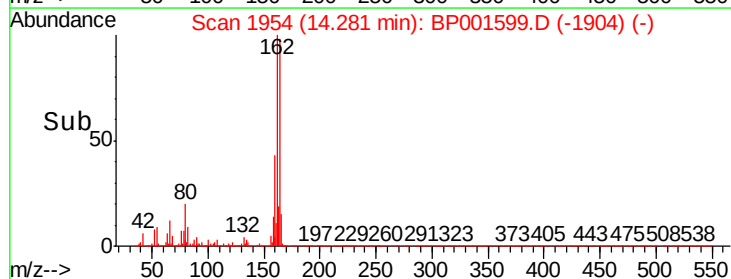
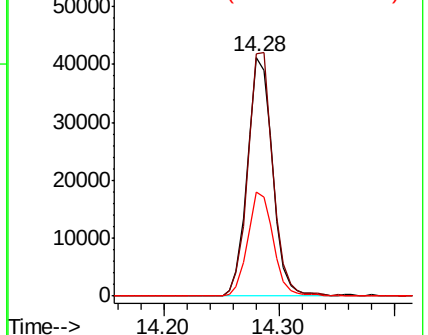
160 43.7 35.0 52.6

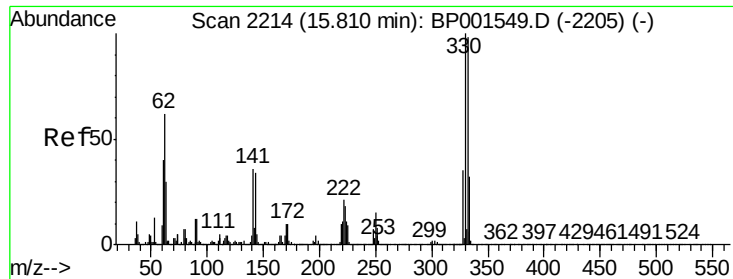


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

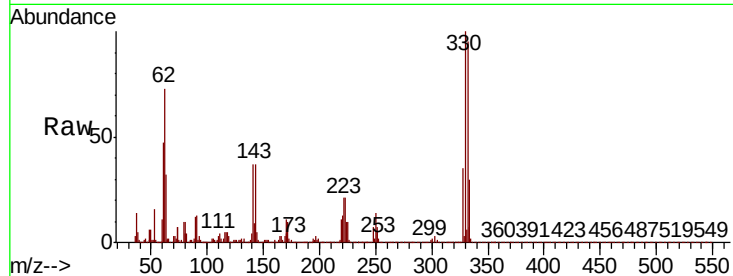




#42  
2,4,6-Tribromophenol  
Concen: 121.914 ng  
RT: 15.79 min Scan# 2210  
Delta R.T. -0.01 min  
Lab File: BP001599.D  
Acq: 14 Jan 2020 21:47

Instrument :  
BNA\_P  
ClientSampled :  
BU-RO-234

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.6  | 77.8  | 116.6 |
| 141     | 39.4  | 28.7  | 43.1  |

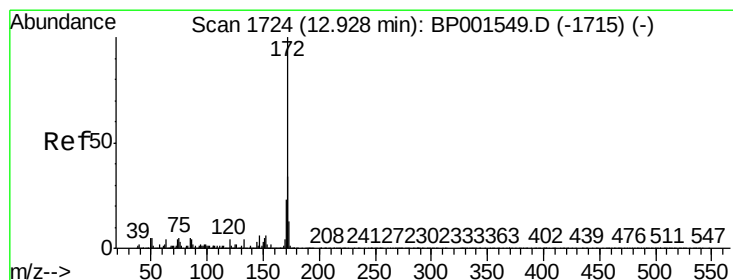
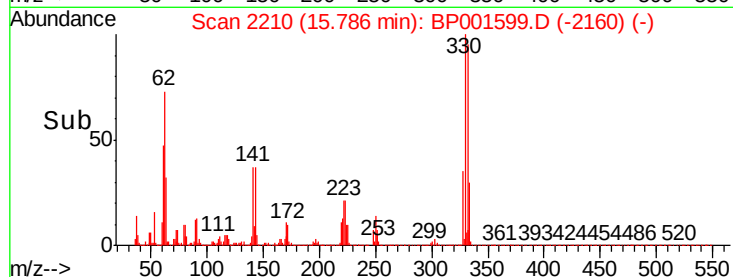
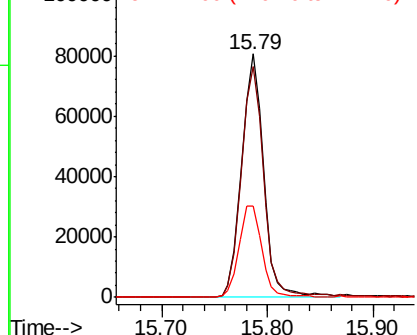


Abundance

Ion 329.80 (329.50 to 330.50): E

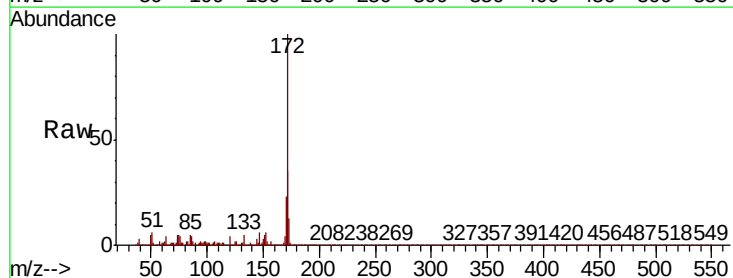
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
2-Fluorobiphenyl  
Concen: 100.089 ng  
RT: 12.90 min Scan# 1720  
Delta R.T. -0.00 min  
Lab File: BP001599.D  
Acq: 14 Jan 2020 21:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 27.6  | 41.4  |
| 170     | 22.7  | 18.3  | 27.5  |

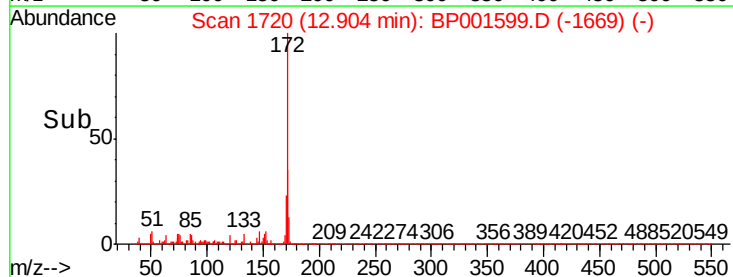
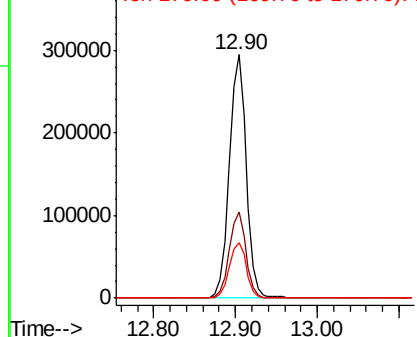


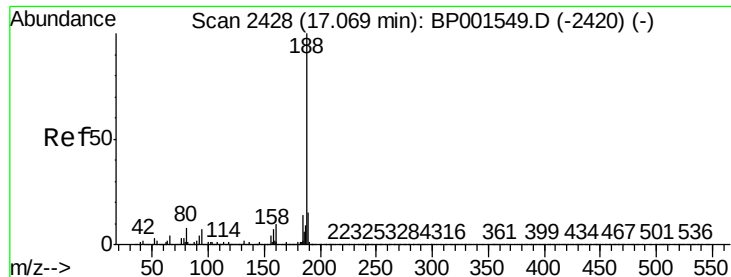
Abundance

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.05 min Scan# 2424

Delta R.T. -0.01 min

Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

Instrument :

BNA\_P

ClientSampleId :

BU-RO-234

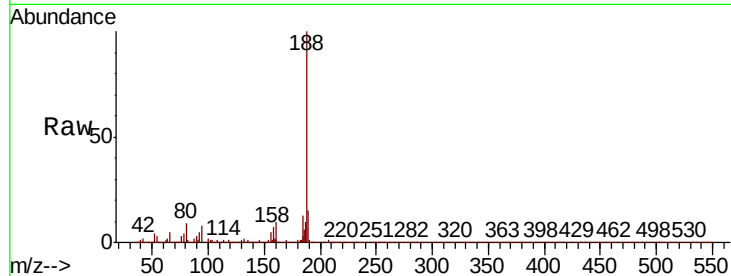
Tot Ion:188 Resp: 148115

Ion Ratio Lower Upper

188 100

94 7.6 5.9 8.9

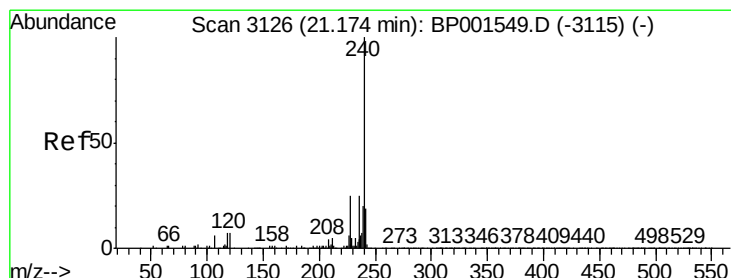
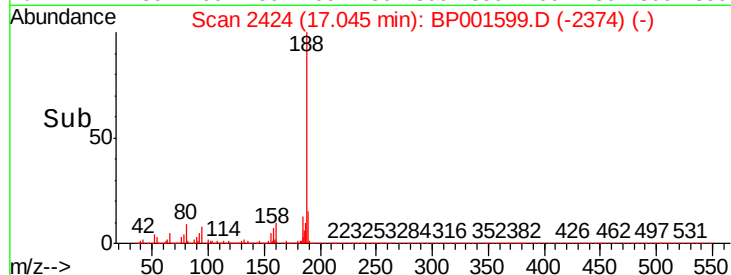
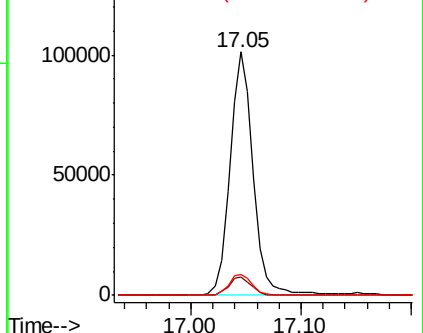
80 8.7 6.8 10.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.15 min Scan# 3122

Delta R.T. -0.01 min

Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

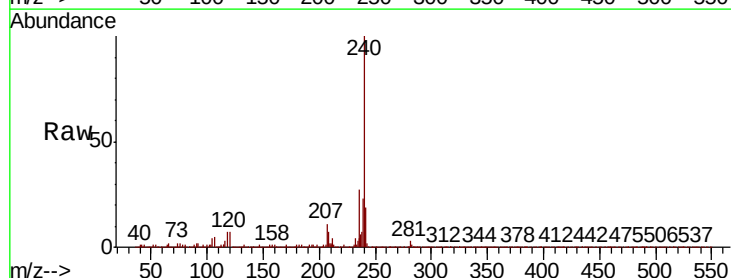
Tgt Ion:240 Resp: 156714

Ion Ratio Lower Upper

240 100

120 7.2 5.7 8.5

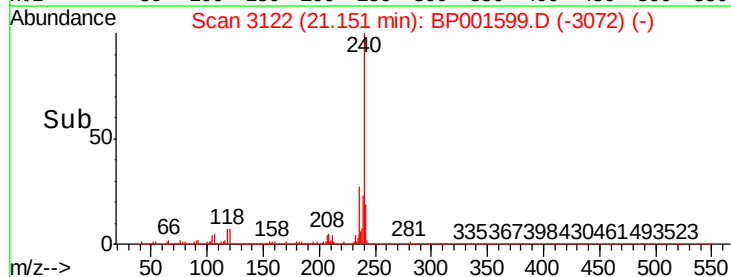
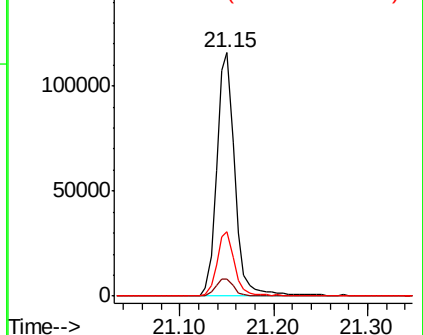
236 26.5 20.4 30.6

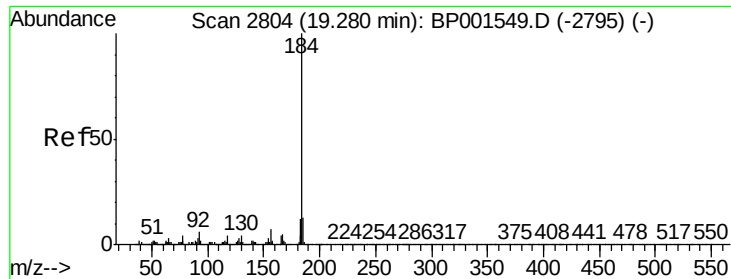


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 143.981 ng

RT: 19.26 min Scan# 2800

Delta R.T. -0.01 min

Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

Instrument :

BNA\_P

ClientSampleId :

BU-RO-234

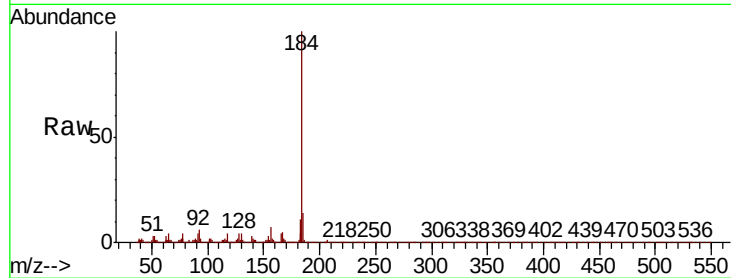
Tot Ion:184 Resp: 515211

Ion Ratio Lower Upper

184 100

185 14.2 10.6 16.0

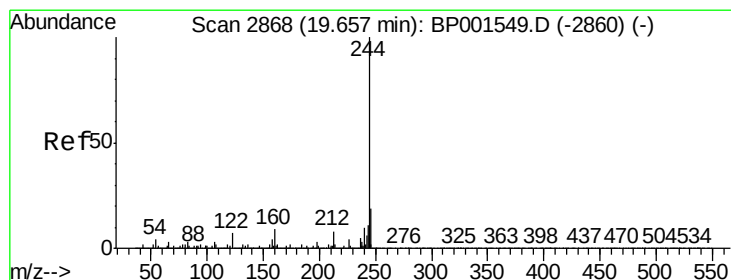
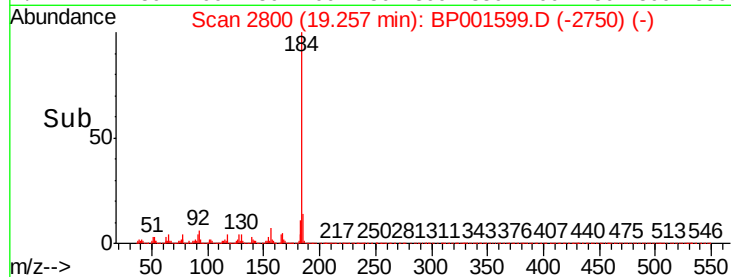
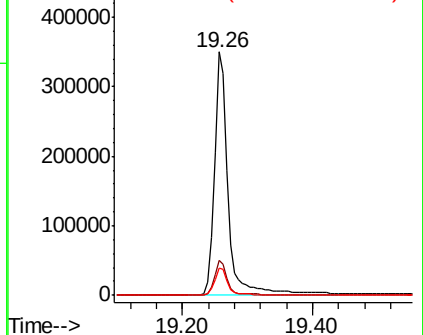
183 11.1 9.4 14.0



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 93.430 ng

RT: 19.63 min Scan# 2864

Delta R.T. -0.01 min

Lab File: BP001599.D

Acq: 14 Jan 2020 21:47

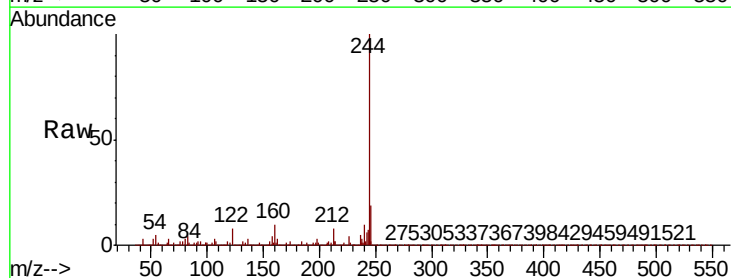
Tgt Ion:244 Resp: 800523

Ion Ratio Lower Upper

244 100

212 8.1 6.3 9.5

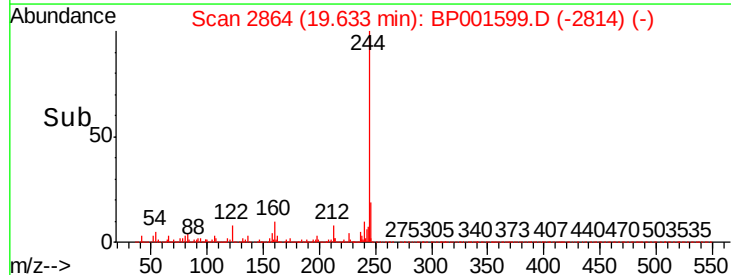
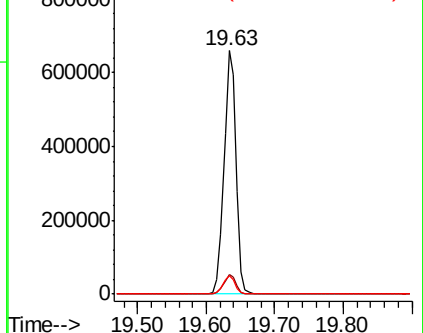
122 7.6 5.8 8.6



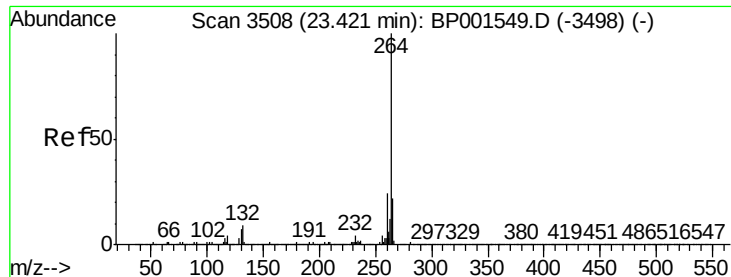
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E







#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 23.38 min Scan# 3501  
 Delta R.T. -0.01 min  
 Lab File: BP001599.D  
 Acq: 14 Jan 2020 21:47

Instrument :  
 BNA\_P  
 ClientSampleId :  
 BU-RO-234

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 159229 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.1  | 19.0  | 28.6   |
| 265      | 22.6  | 18.2  | 27.4   |

