

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011720\  
 Data File : BP001662.D  
 Acq On : 17 Jan 2020 17:53  
 Operator : JU  
 Sample : L1155-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :

Quant Time: Jan 18 02:33:35 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

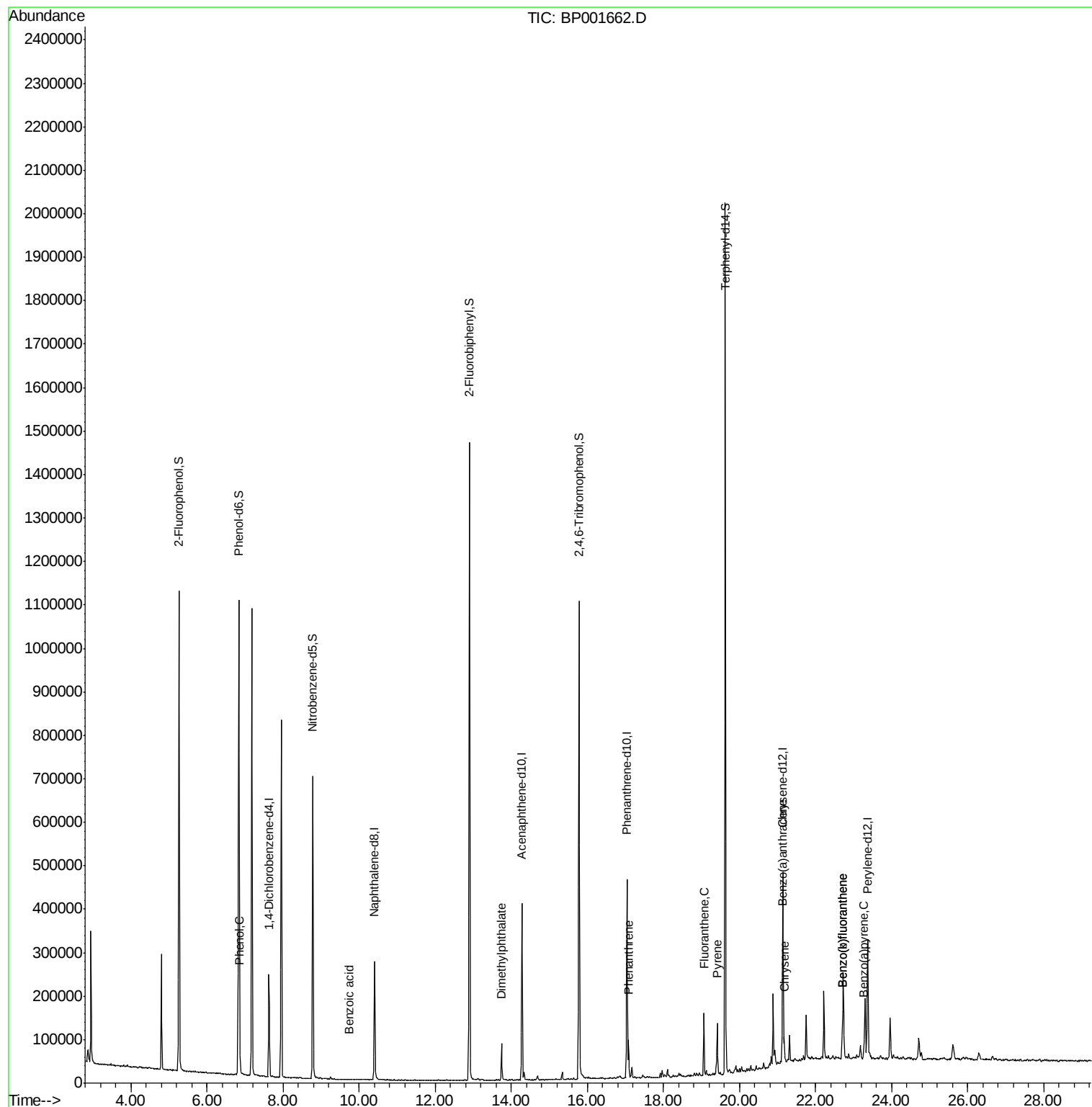
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 52028    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.41 | 136  | 193704   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.28 | 164  | 129109   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.04 | 188  | 265768   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12            | 21.14 | 240  | 188109   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12            | 23.37 | 264  | 195624   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.26  | 112  | 341758   | 128.67 | ng    | 0.00     |
| 7) Phenol-d6                | 6.83  | 99   | 498202   | 117.37 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.78  | 82   | 355417   | 80.18  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.78 | 330  | 170245   | 86.63  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 12.90 | 172  | 699392   | 79.65  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.63 | 244  | 868626   | 84.46  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.86  | 94   | 18476    | 4.208  | ng    | 98       |
| 32) Benzoic acid            | 9.74  | 122  | 7        | 4.706  | ng    | # 60     |
| 50) Dimethylphthalate       | 13.75 | 163  | 52492    | 4.936  | ng    | 97       |
| 71) Phenanthrene            | 17.08 | 178  | 47945    | 3.317  | ng    | 97       |
| 75) Fluoranthene            | 19.06 | 202  | 81512    | 4.286  | ng    | 99       |
| 78) Pyrene                  | 19.42 | 202  | 68519    | 4.959  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.13 | 228  | 34786    | 2.655  | ng    | 98       |
| 83) Chrysene                | 21.17 | 228  | 33539    | 2.627  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 22.70 | 252  | 61668    | 5.003  | ng    | # 98     |
| 89) Benzo(k)fluoranthene    | 22.70 | 252  | 61668    | 5.131  | ng    | # 97     |
| 90) Benzo(a)pyrene          | 23.27 | 252  | 28213    | 2.410  | ng    | # 88     |

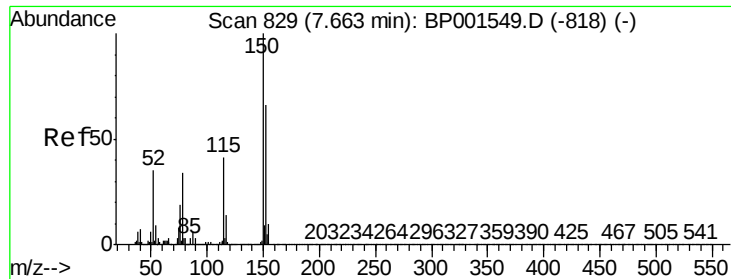
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011720\  
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Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :

Quant Time: Jan 18 02:33:35 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  
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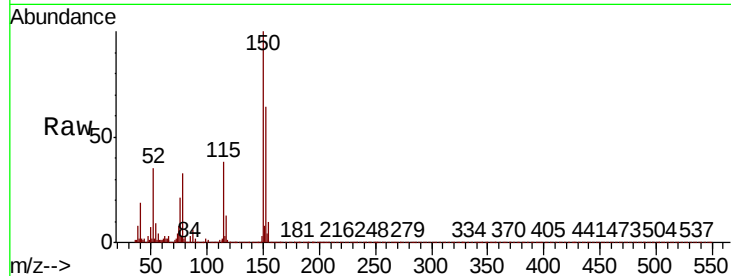


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.63 min Scan# 824  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

Instrument :  
BNA\_P  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.9 | 122.0 | 183.0 |
| 115     | 59.8  | 50.7  | 76.1  |

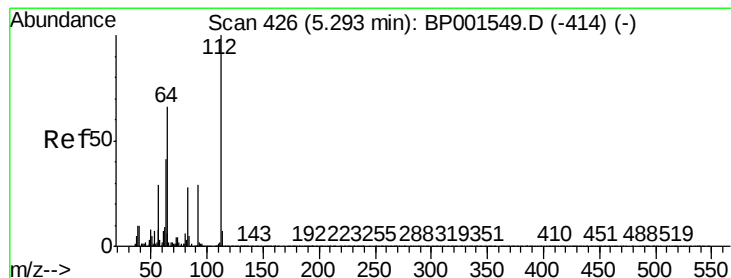
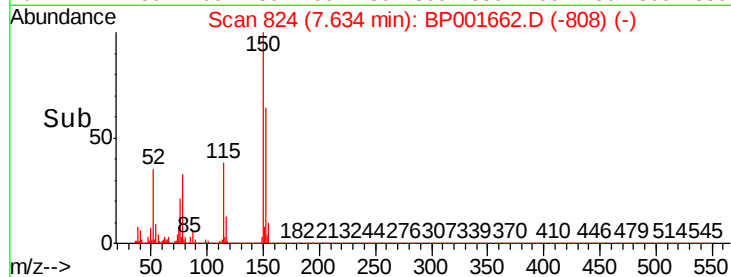
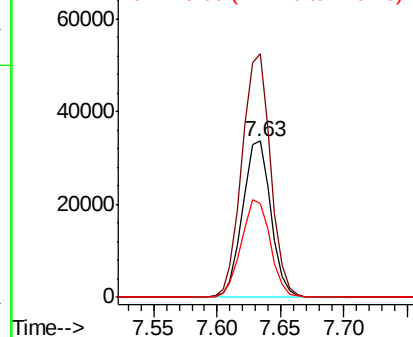


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

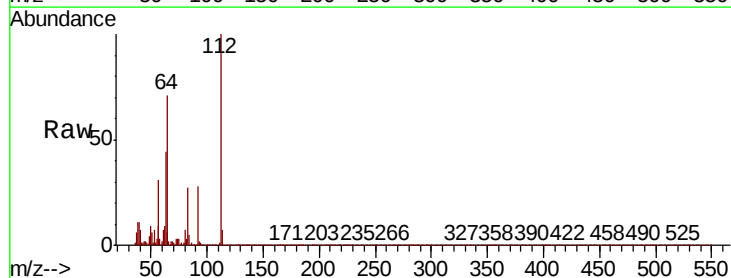
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 128.675 ng  
RT: 5.26 min Scan# 421  
Delta R.T. -0.00 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.9  | 52.8  | 79.2  |
| 63      | 44.0  | 33.1  | 49.7  |

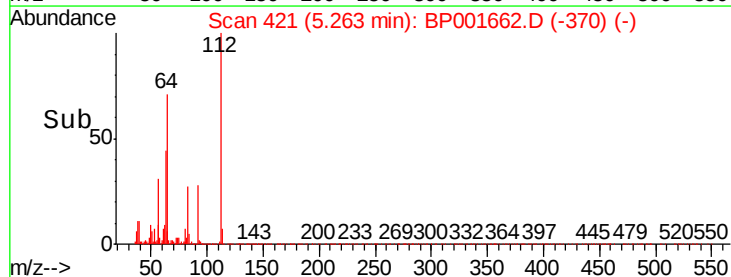
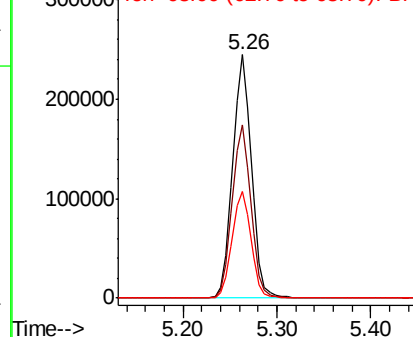


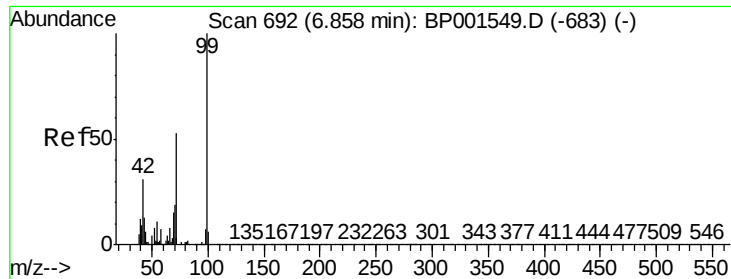
Abundance

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: 117.369 ng

RT: 6.83 min Scan# 688

Delta R.T. -0.00 min

Lab File: BP001662.D

Acq: 17 Jan 2020 17:53

Instrument :

BNA\_P

ClientSampleId :

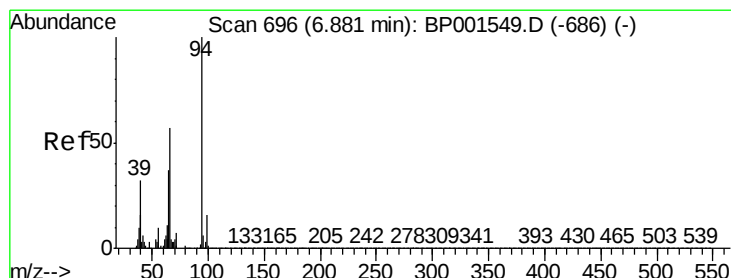
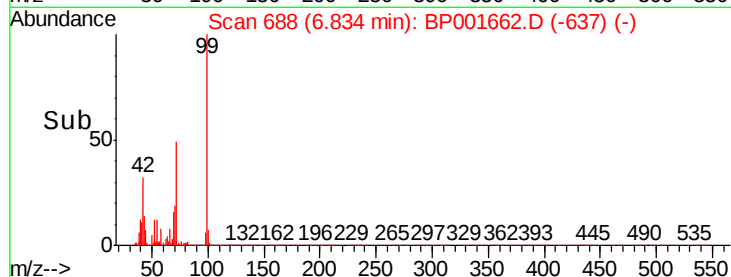
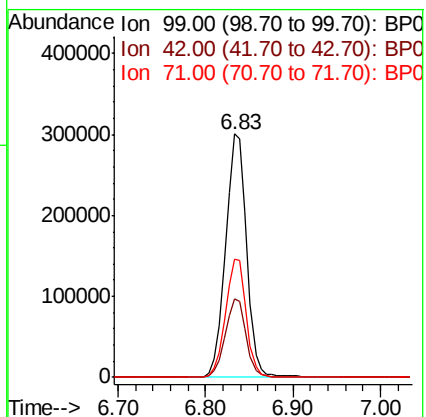
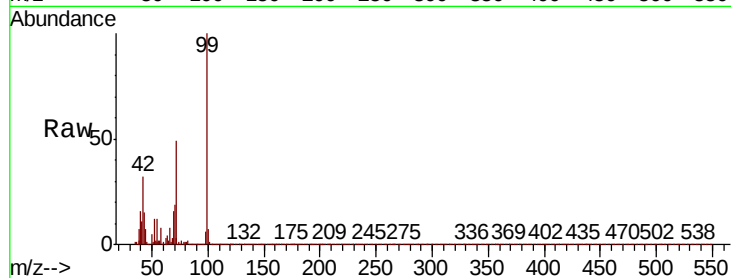
Tot Ion: 99 Resp: 498202

Ion Ratio Lower Upper

99 100

42 32.0 24.5 36.7

71 48.7 42.4 63.6



#10

Phenol

Concen: 4.208 ng

RT: 6.86 min Scan# 693

Delta R.T. 0.01 min

Lab File: BP001662.D

Acq: 17 Jan 2020 17:53

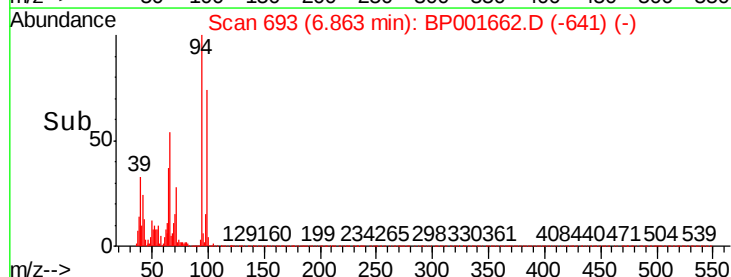
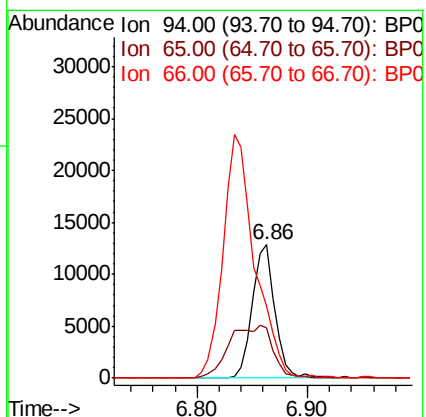
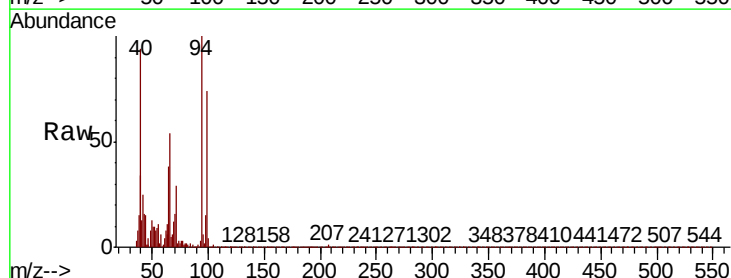
Tgt Ion: 94 Resp: 18476

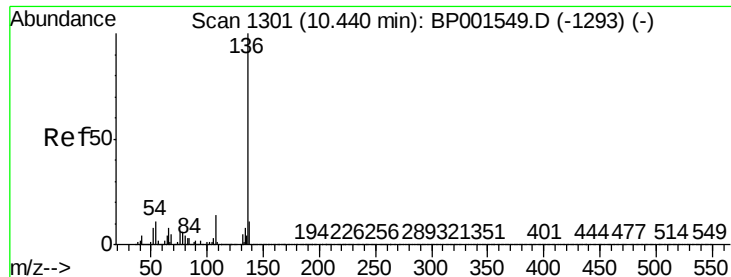
Ion Ratio Lower Upper

94 100

65 37.7 17.5 57.5

66 54.0 36.7 76.7

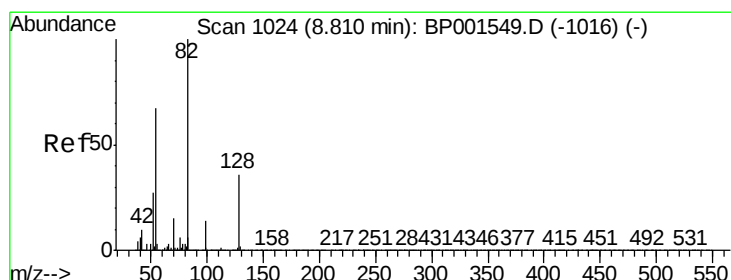
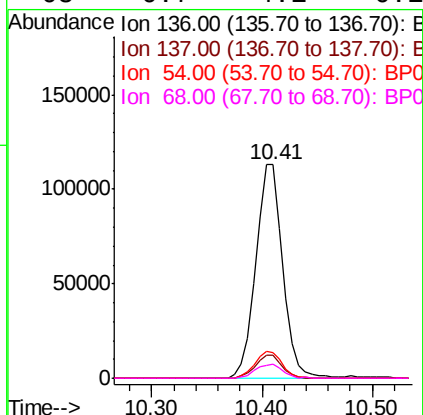
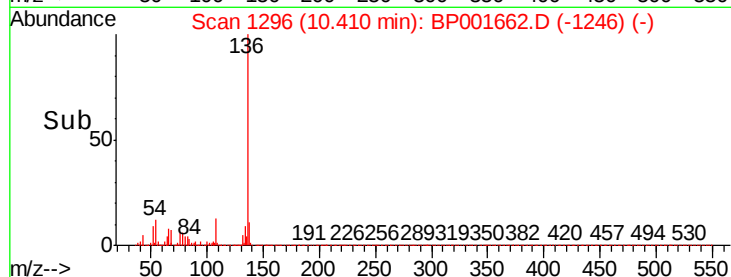
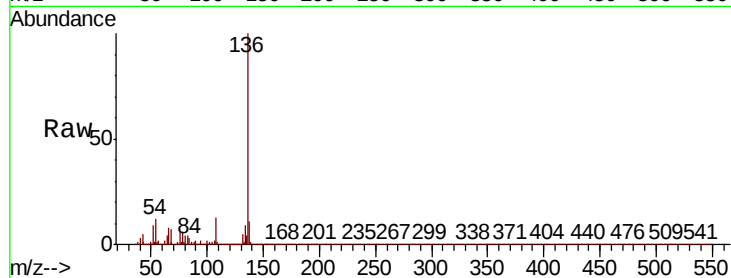




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.41 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

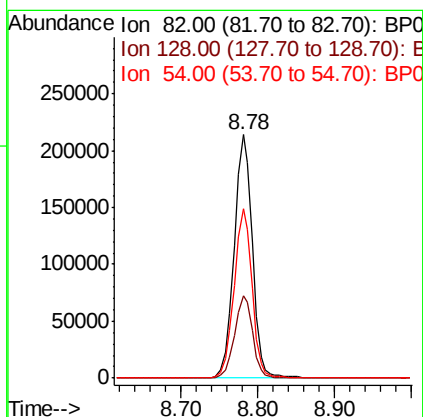
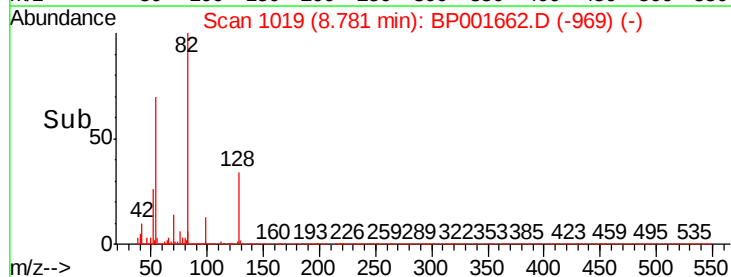
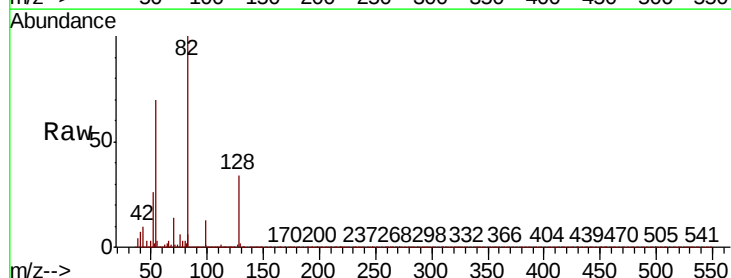
Instrument :  
BNA\_P  
ClientSampleId :

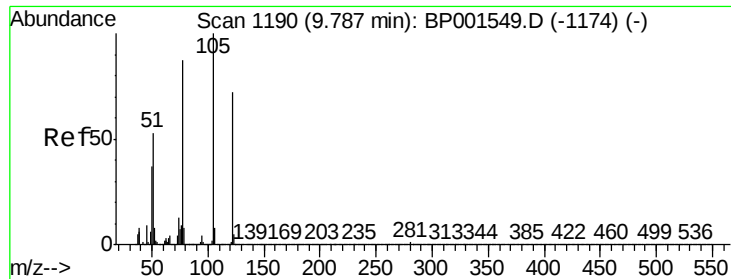
| Tot Ion:136 | Resp: | 193704      |
|-------------|-------|-------------|
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.0  | 8.6 12.8    |
| 54          | 11.8  | 9.2 13.8    |
| 68          | 6.7   | 4.1 6.1#    |



#23  
Nitrobenzene-d5  
Concen: 80.178 ng  
RT: 8.78 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

| Tgt Ion: 82 | Resp: | 355417      |
|-------------|-------|-------------|
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 33.7  | 28.4 42.6   |
| 54          | 69.5  | 53.4 80.2   |

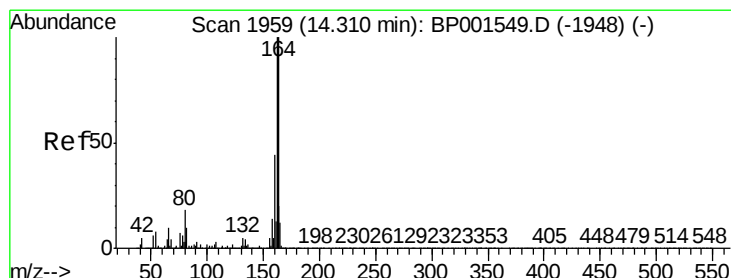
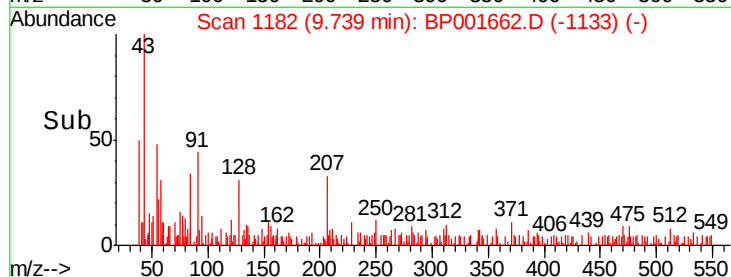
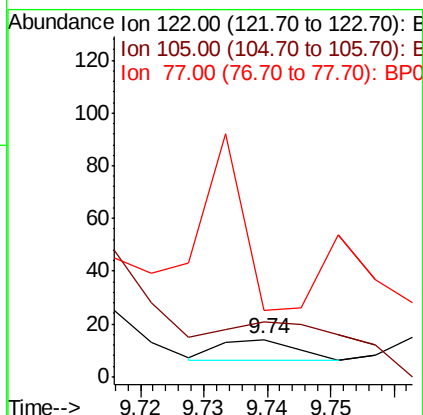
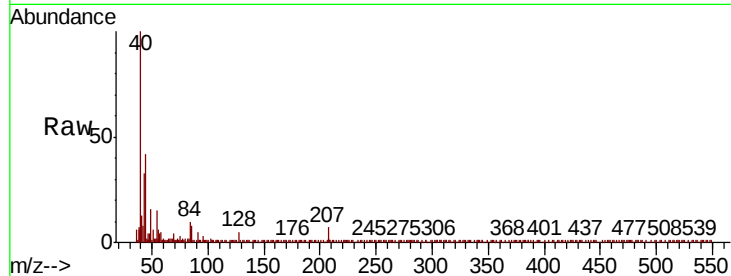




#32  
Benzoic acid  
Concen: 4.706 ng  
RT: 9.74 min Scan# 1182  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

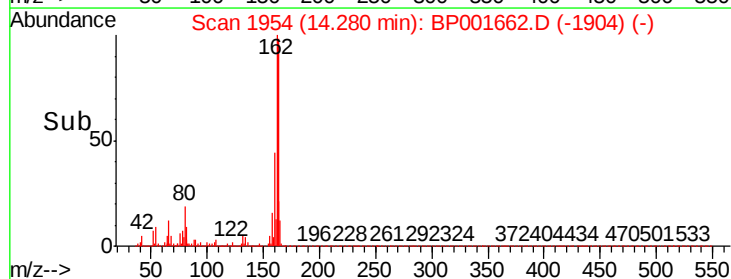
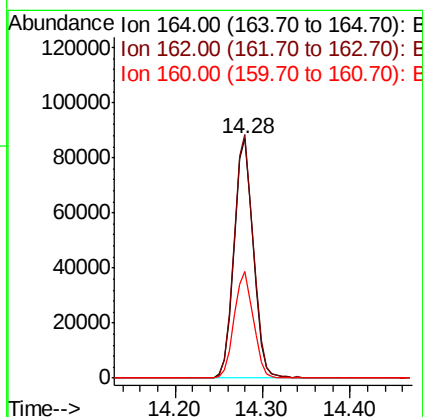
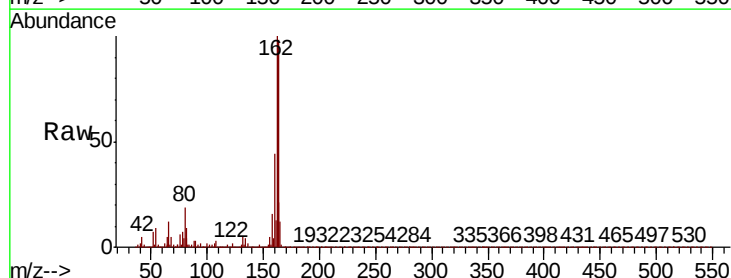
Instrument :  
BNA\_P  
ClientSampleId :

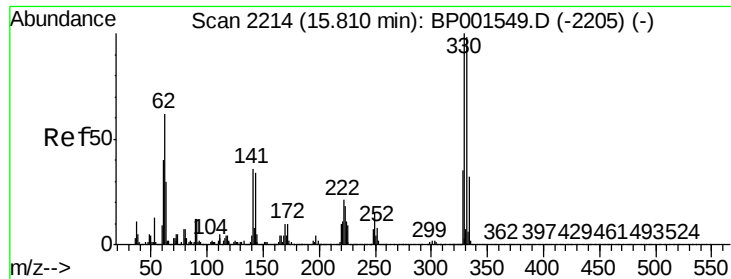
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 178.6 | 119.5 | 159.5# |
| 77      | 178.6 | 102.8 | 142.8# |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.28 min Scan# 1954  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.6 | 79.8  | 119.6 |
| 160     | 44.4  | 35.0  | 52.6  |

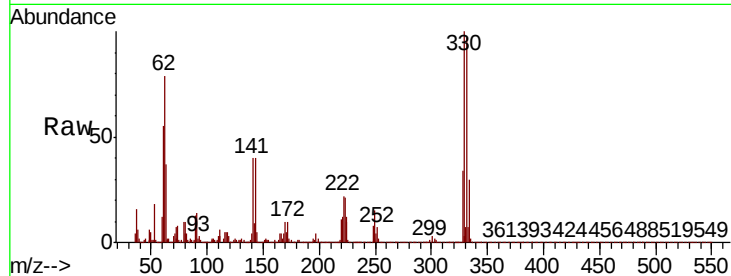




#42  
 2,4,6-Tribromophenol  
 Concen: 86.626 ng  
 RT: 15.78 min Scan# 2209  
 Delta R.T. -0.01 min  
 Lab File: BP001662.D  
 Acq: 17 Jan 2020 17:53

Instrument :  
 BNA\_P  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.1  | 77.8  | 116.6 |
| 141     | 39.0  | 28.7  | 43.1  |

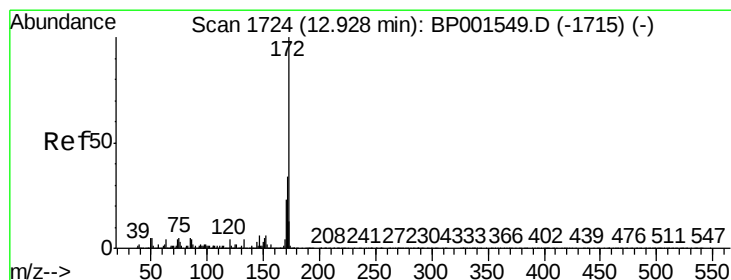
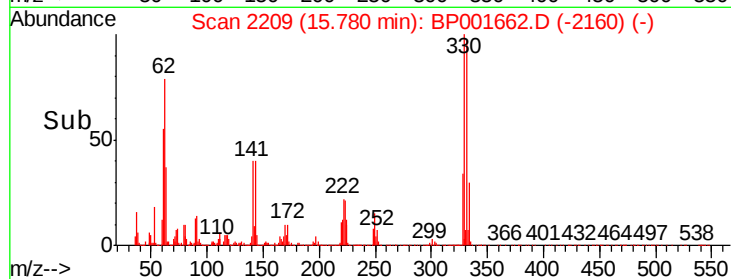
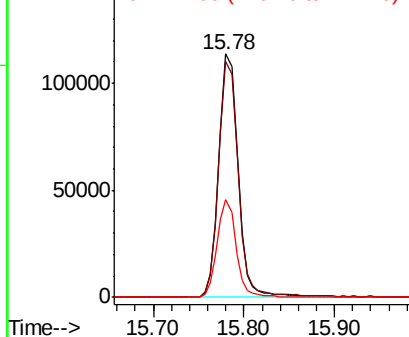


Abundance

Ion 329.80 (329.50 to 330.50): E

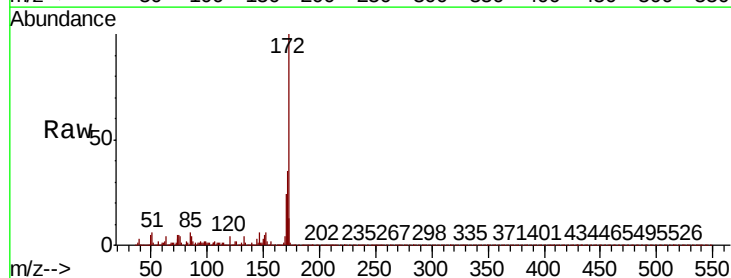
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 79.646 ng  
 RT: 12.90 min Scan# 1719  
 Delta R.T. -0.01 min  
 Lab File: BP001662.D  
 Acq: 17 Jan 2020 17:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 27.6  | 41.4  |
| 170     | 23.5  | 18.3  | 27.5  |

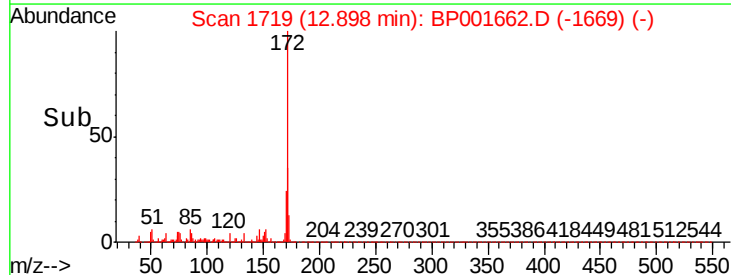
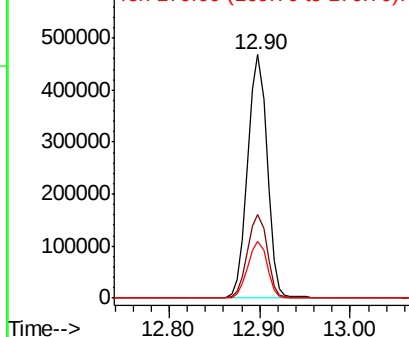


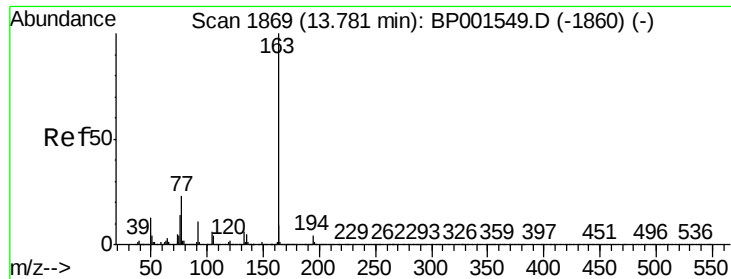
Abundance

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

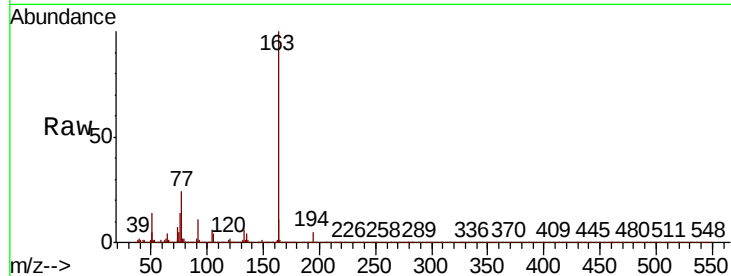




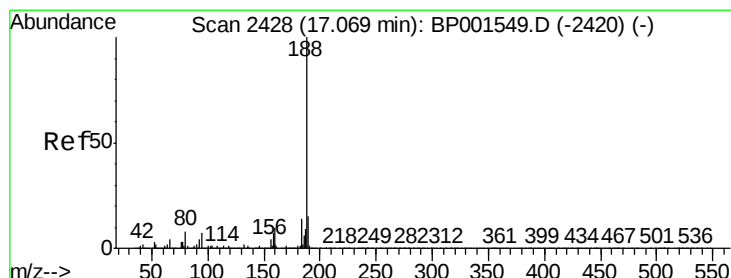
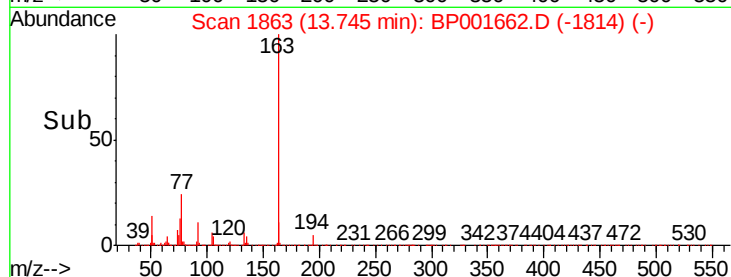
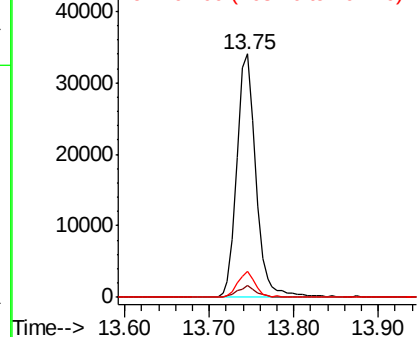
#50  
Dimethylphthalate  
Concen: 4.936 ng  
RT: 13.75 min Scan# 1863  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

Instrument :  
BNA\_P  
ClientSampleId :

Tot Ion:163 Resp: 52492  
Ion Ratio Lower Upper  
163 100  
194 4.8 3.6 5.4  
164 10.7 7.5 11.3

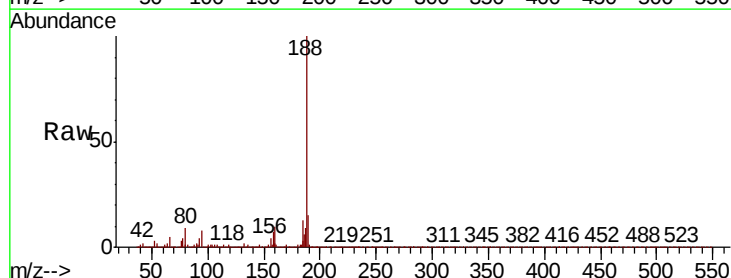


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

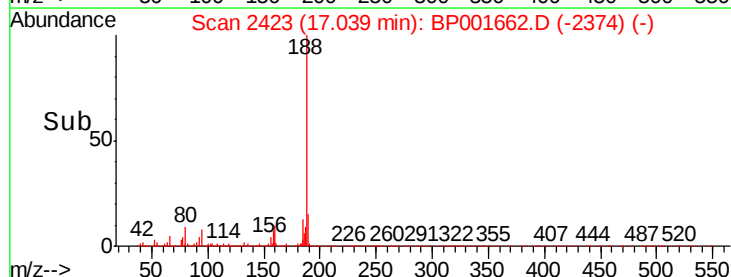
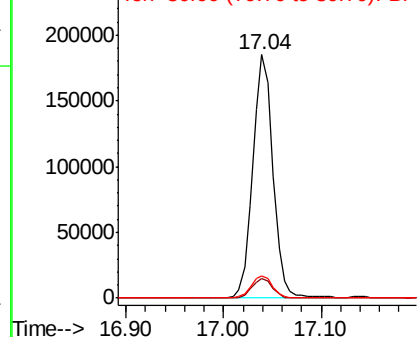


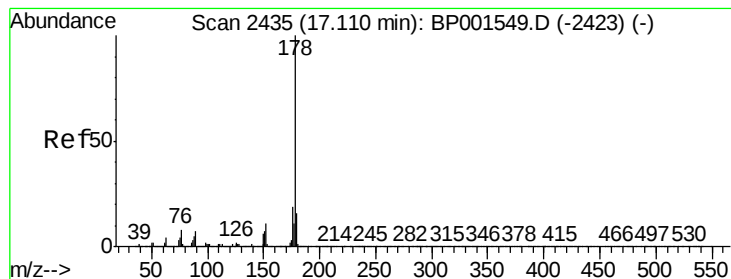
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.04 min Scan# 2423  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

Tgt Ion:188 Resp: 265768  
Ion Ratio Lower Upper  
188 100  
94 8.1 5.9 8.9  
80 9.1 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





#71

Phenanthrene

Concen: 3.317 ng

RT: 17.08 min Scan# 2430

Delta R.T. -0.01 min

Lab File: BP001662.D

Acq: 17 Jan 2020 17:53

Instrument :

BNA\_P

ClientSampleId :

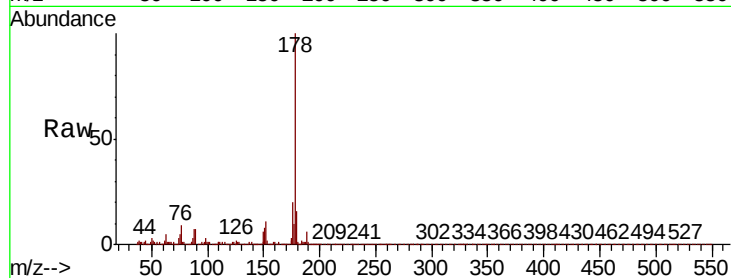
Tot Ion:178 Resp: 47945

Ion Ratio Lower Upper

178 100

176 20.1 14.9 22.3

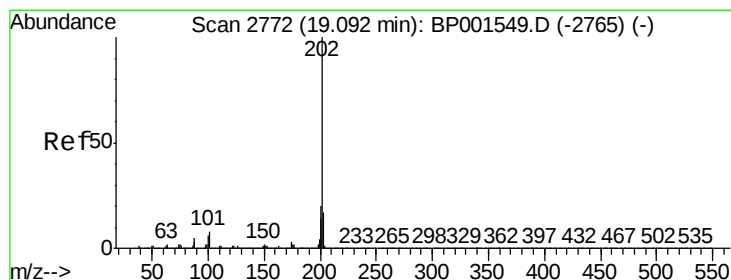
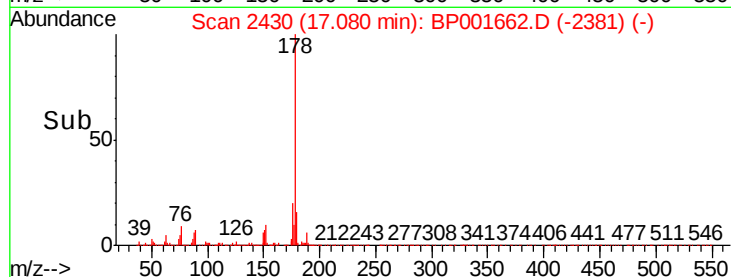
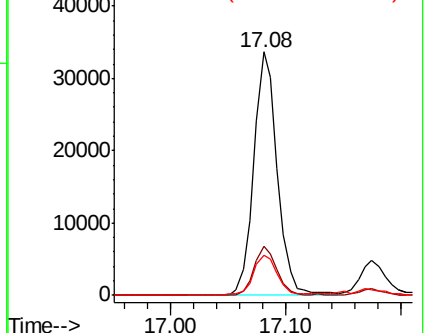
179 16.4 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 4.286 ng

RT: 19.06 min Scan# 2767

Delta R.T. -0.01 min

Lab File: BP001662.D

Acq: 17 Jan 2020 17:53

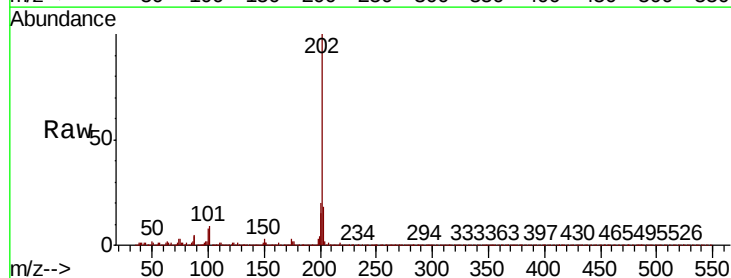
Tgt Ion:202 Resp: 81512

Ion Ratio Lower Upper

202 100

101 9.1 0.0 28.4

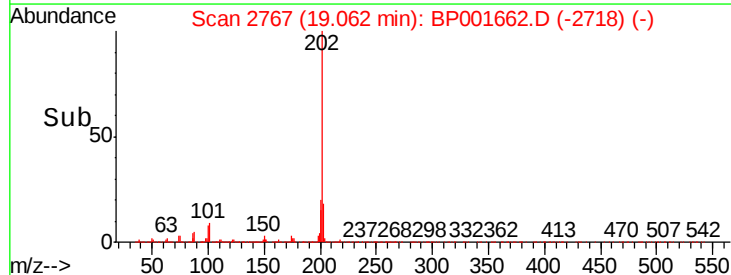
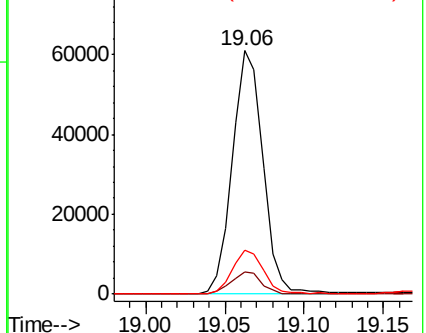
203 17.8 0.0 37.4

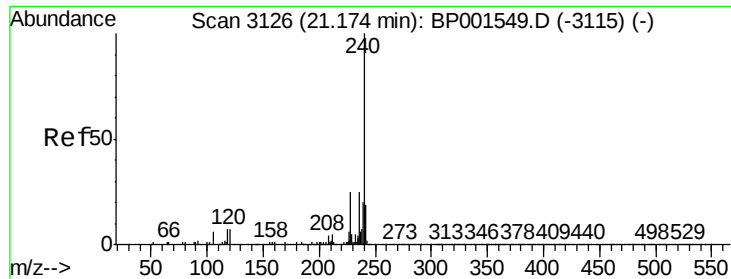


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

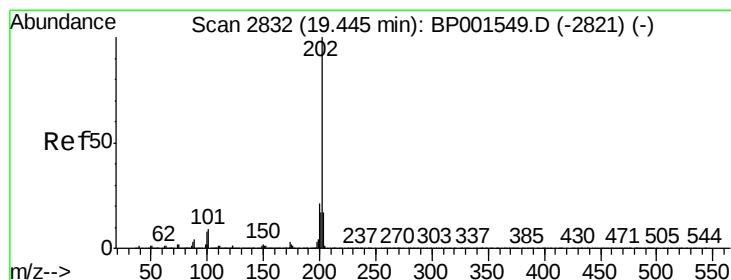
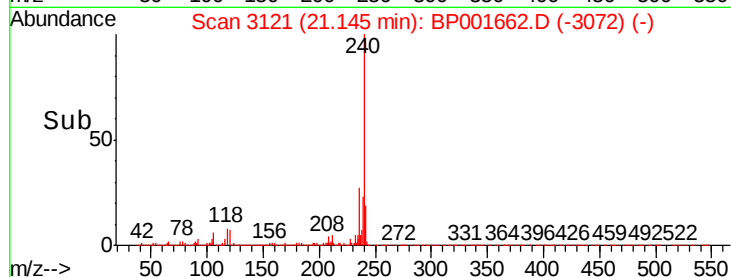
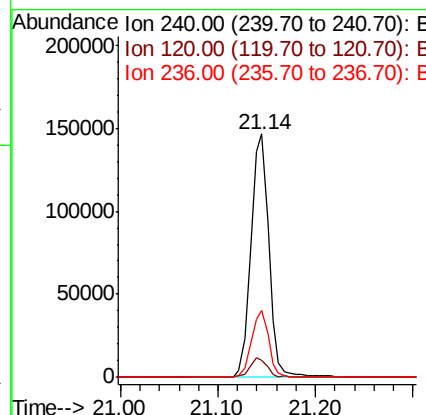
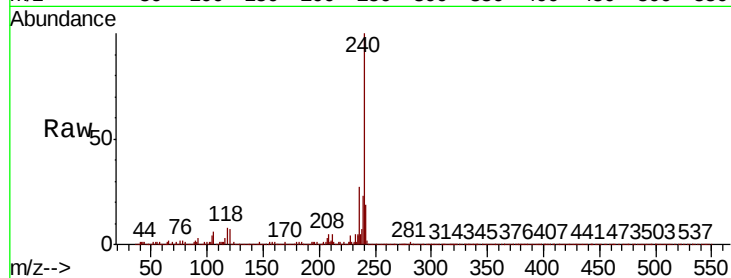




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.14 min Scan# 3121  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

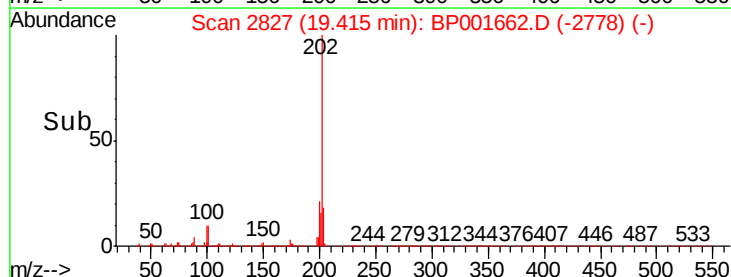
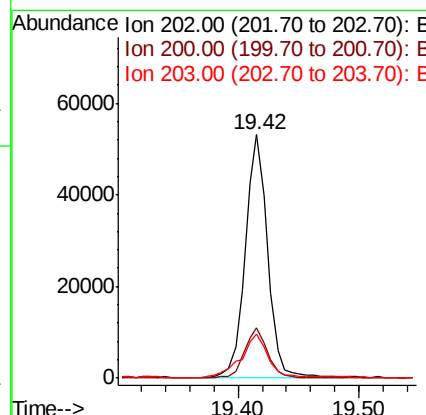
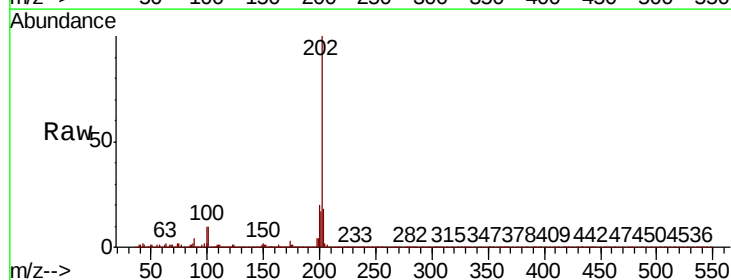
Instrument :  
BNA\_P  
ClientSampleId :

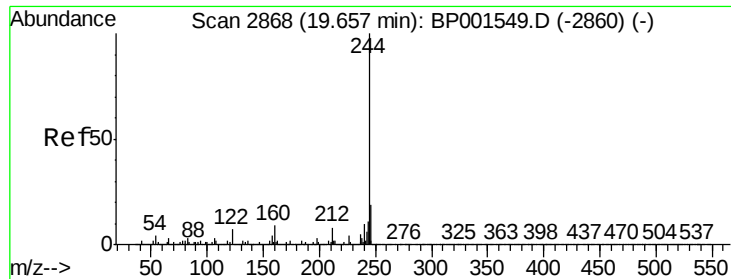
Tot Ion:240 Resp: 188109  
Ion Ratio Lower Upper  
240 100  
120 7.0 5.7 8.5  
236 27.4 20.4 30.6



#78  
Pyrene  
Concen: 4.959 ng  
RT: 19.42 min Scan# 2827  
Delta R.T. -0.01 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

Tgt Ion:202 Resp: 68519  
Ion Ratio Lower Upper  
202 100  
200 20.5 17.0 25.6  
203 18.2 13.7 20.5





#79

Terphenyl-d14

Concen: 84.459 ng

RT: 19.63 min Scan# 2863

Delta R.T. -0.01 min

Lab File: BP001662.D

Acq: 17 Jan 2020 17:53

Instrument :

BNA\_P

ClientSampleId :

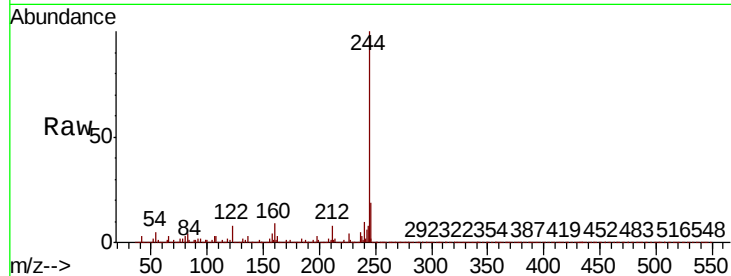
Tot Ion:244 Resp: 868626

Ion Ratio Lower Upper

244 100

212 8.0 6.3 9.5

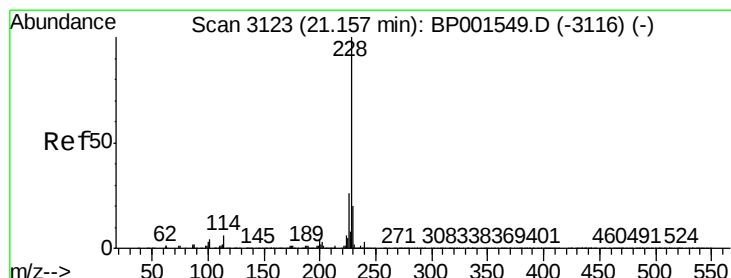
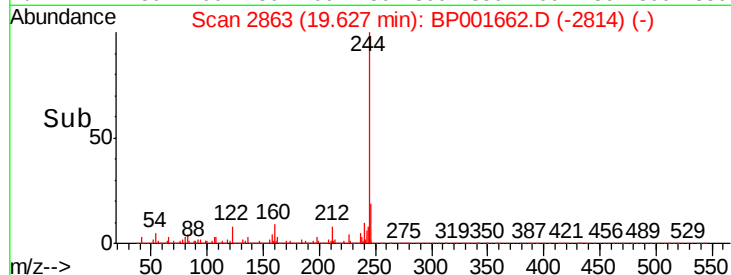
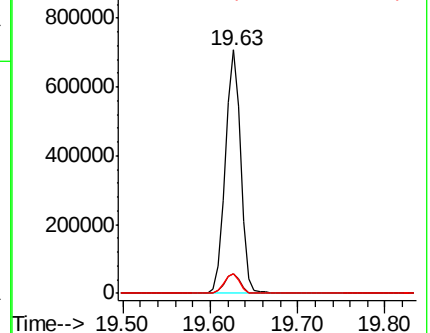
122 8.0 5.8 8.6



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



#81

Benzo(a)anthracene

Concen: 2.655 ng

RT: 21.13 min Scan# 3118

Delta R.T. -0.01 min

Lab File: BP001662.D

Acq: 17 Jan 2020 17:53

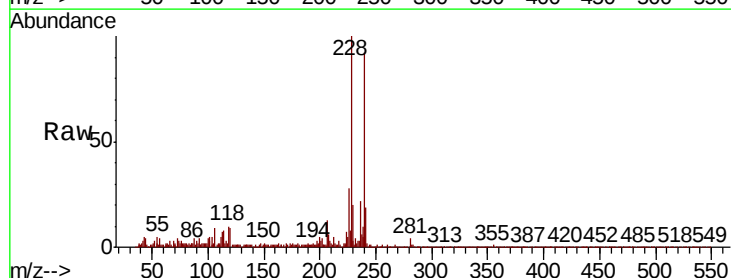
Tgt Ion:228 Resp: 34786

Ion Ratio Lower Upper

228 100

226 27.8 21.2 31.8

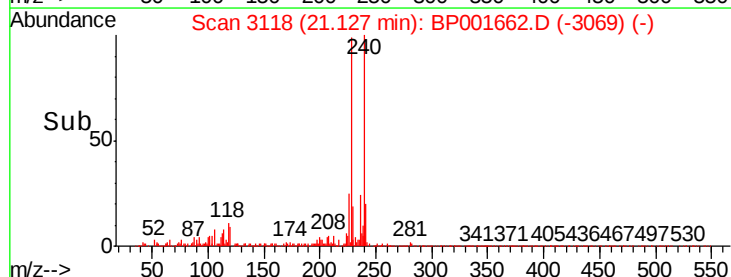
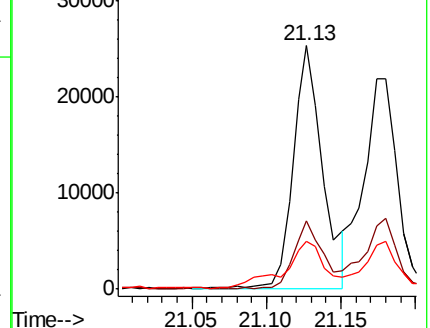
229 19.7 16.1 24.1

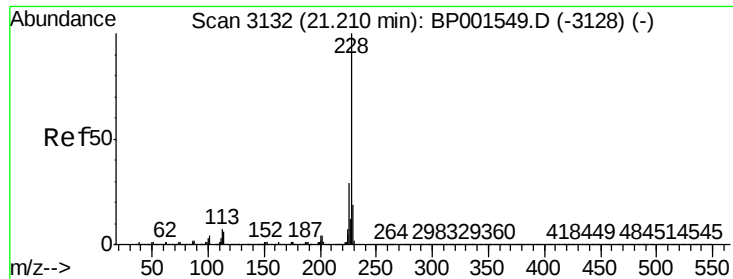


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

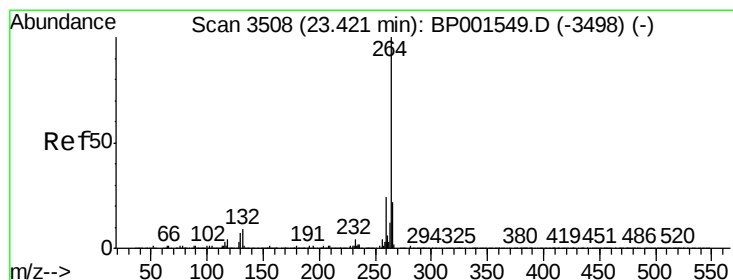
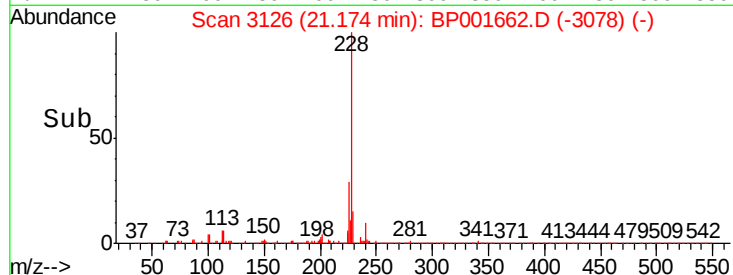
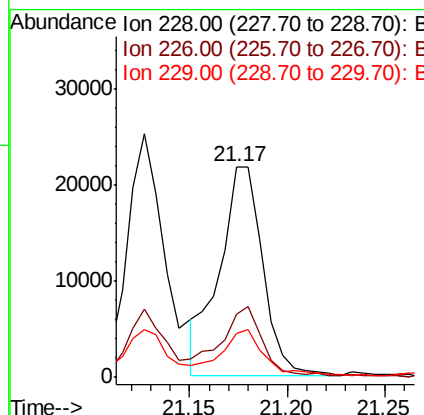
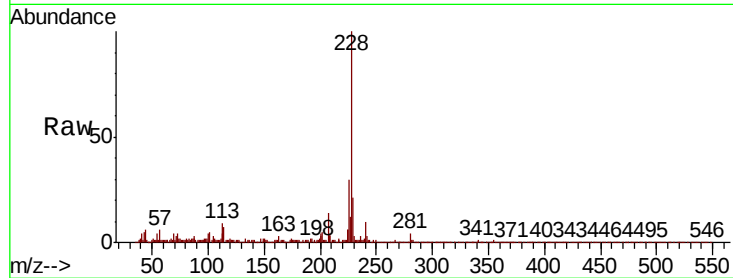




#83  
 Chrysene  
 Concen: 2.627 ng  
 RT: 21.17 min Scan# 3126  
 Delta R.T. -0.02 min  
 Lab File: BP001662.D  
 Acq: 17 Jan 2020 17:53

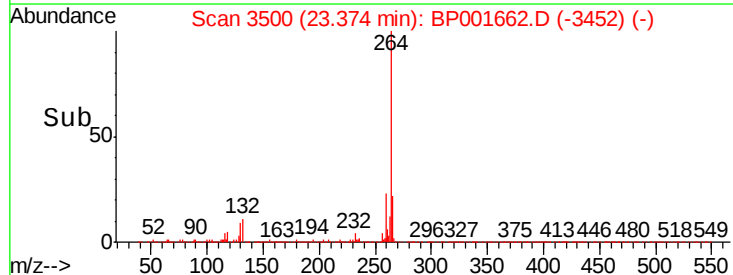
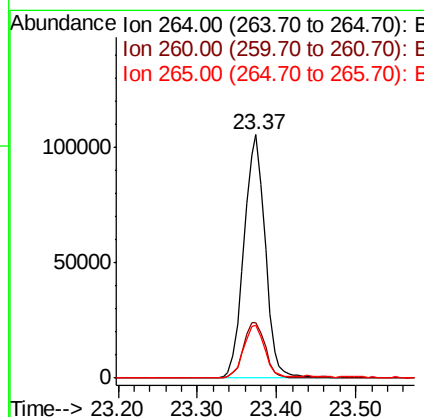
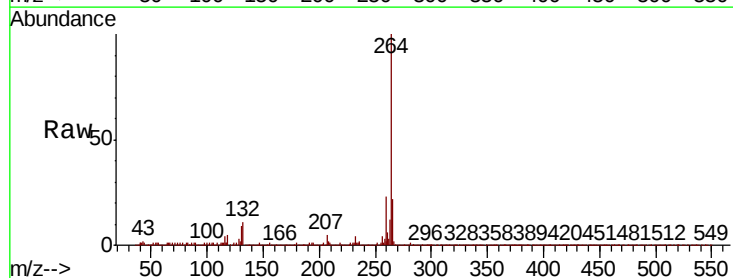
Instrument :  
 BNA\_P  
 ClientSampleId :

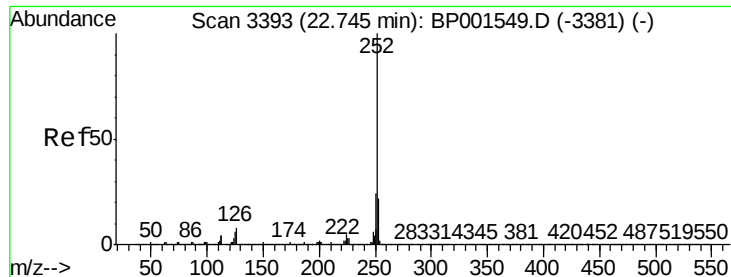
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 23.2  | 34.8  |
| 229     | 21.0  | 15.2  | 22.8  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.37 min Scan# 3500  
 Delta R.T. -0.02 min  
 Lab File: BP001662.D  
 Acq: 17 Jan 2020 17:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 19.0  | 28.6  |
| 265     | 21.7  | 18.2  | 27.4  |

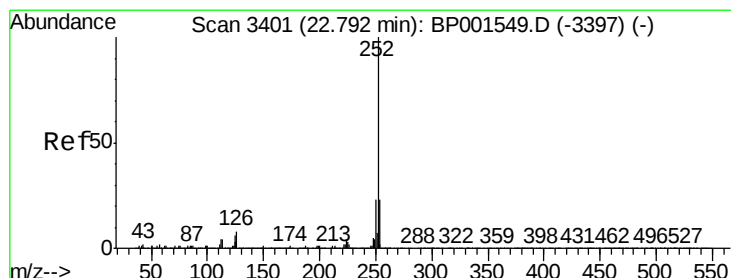
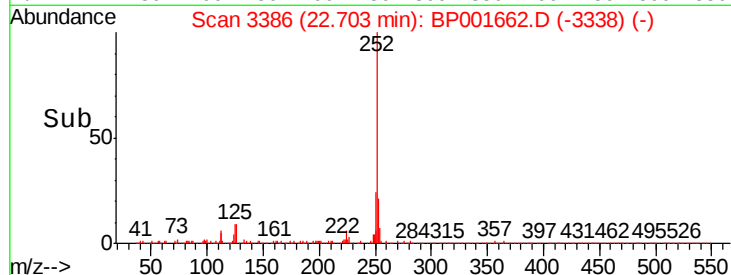
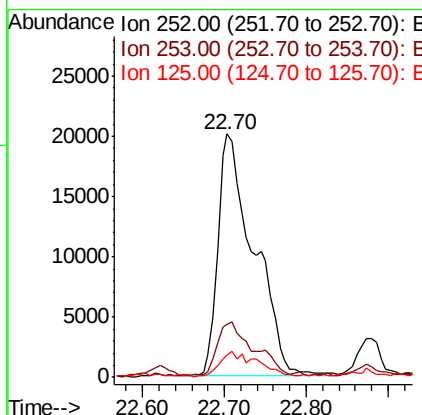
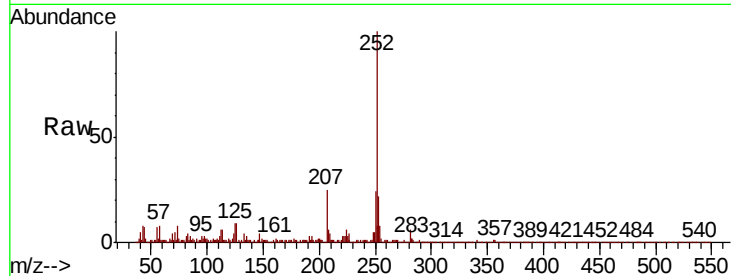




#88  
Benzo(b)fluoranthene  
Concen: 5.003 ng  
RT: 22.70 min Scan# 3386  
Delta R.T. -0.02 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

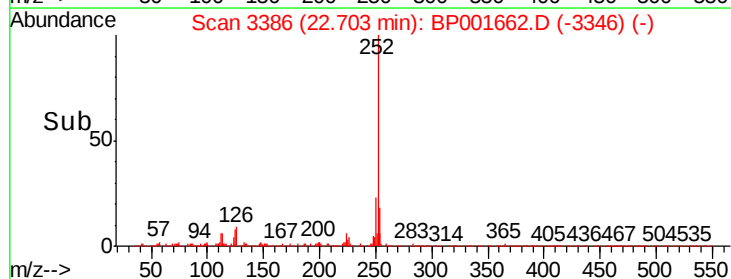
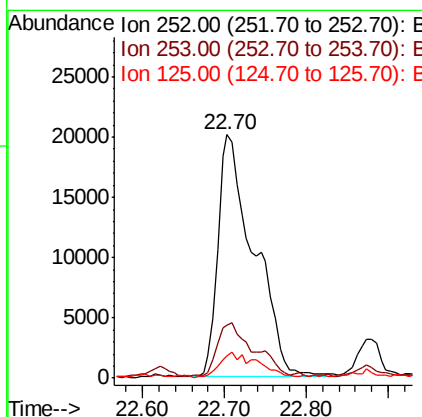
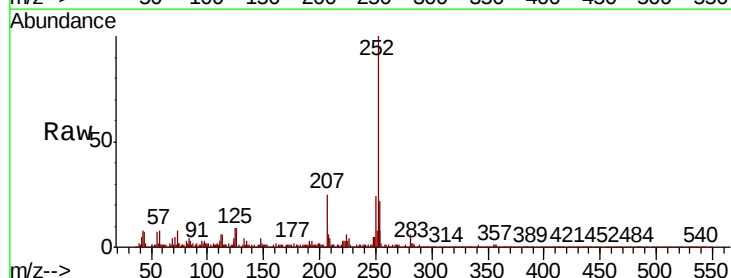
Instrument :  
BNA\_P  
ClientSampleId :

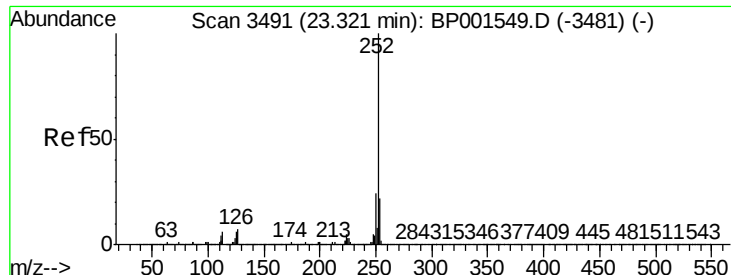
Tot Ion:252 Resp: 61668  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.6 26.4  
125 9.1 4.6 7.0#



#89  
Benzo(k)fluoranthene  
Concen: 5.131 ng  
RT: 22.70 min Scan# 3386  
Delta R.T. -0.07 min  
Lab File: BP001662.D  
Acq: 17 Jan 2020 17:53

Tgt Ion:252 Resp: 61668  
Ion Ratio Lower Upper  
252 100  
253 21.9 18.2 27.2  
125 9.1 4.6 6.8#





#90

Benzo(a)pyrene

Concen: 2.410 ng

RT: 23.27 min Scan# 3483

Delta R.T. -0.02 min

Lab File: BP001662.D

Acq: 17 Jan 2020 17:53

Instrument :

BNA\_P

ClientSampleId :

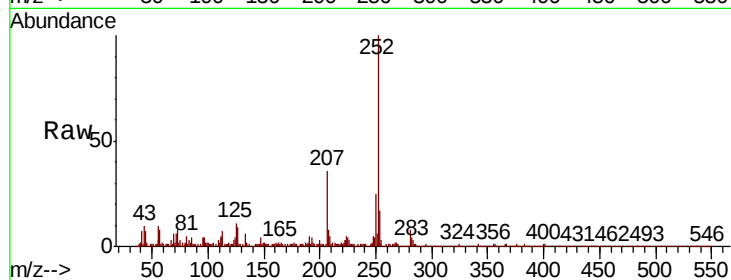
Tot Ion:252 Resp: 28213

Ion Ratio Lower Upper

252 100

253 16.9 17.6 26.4#

125 11.2 5.0 7.4#



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

