

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\  
 Data File : BP001137.D  
 Acq On : 02 Dec 2019 20:43  
 Operator : JU  
 Sample : K5938-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :

Quant Time: Dec 03 00:18:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP112719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 27 17:38:46 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.33  | 152  | 135197   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.36 | 136  | 508772   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 13.23 | 164  | 279243   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 15.62 | 188  | 535573   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 19.27 | 240  | 433609   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 21.05 | 264  | 465583   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.25  | 112  | 1198307  | 147.05 | ng    | 0.02     |
| 7) Phenol-d6                | 7.78  | 99   | 1599929  | 147.37 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 9.21  | 82   | 1090118  | 92.96  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 14.52 | 330  | 391654   | 146.33 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.15 | 172  | 1765729  | 92.55  | ng    | 0.00     |
| 79) Terphenyl-d14           | 17.91 | 244  | 2098674  | 89.54  | ng    | 0.00     |

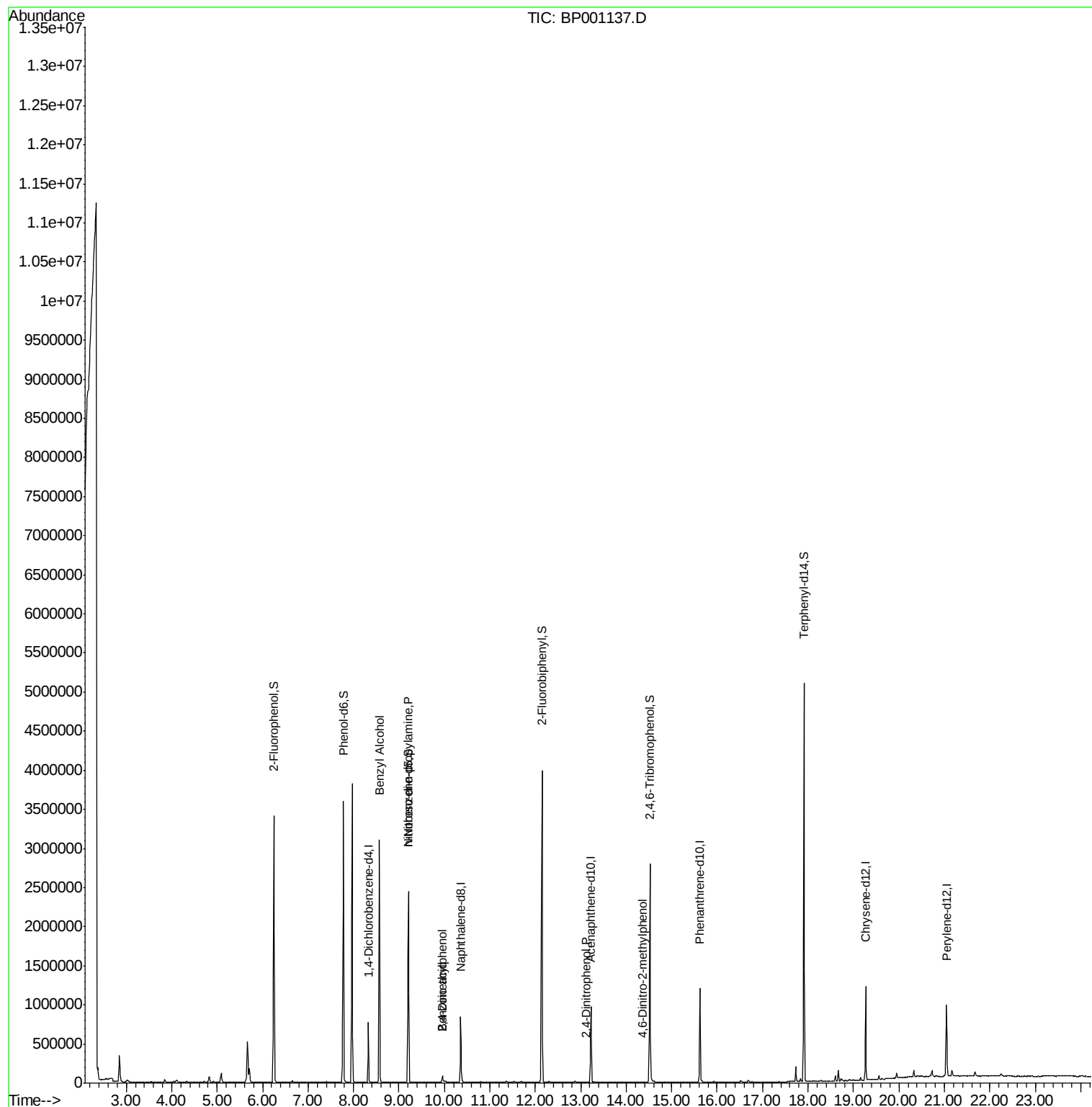
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.61  | 77   | 267      | Below Cal |       | # 1    |
| 15) Benzyl Alcohol             | 8.57  | 79   | 20407    | 2.290     | ng    | # 55   |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 152060   | 19.411    | ng    | # 80   |
| 27) 2,4-Dimethylphenol         | 9.96  | 122  | 30272    | 4.474     | ng    | # 1    |
| 32) Benzoic acid               | 9.96  | 122  | 30272    | 6.189     | ng    | 97     |
| 54) 2,4-Dinitrophenol          | 13.13 | 184  | 14       | 7.116     | ng    | 89     |
| 65) 4,6-Dinitro-2-methylphenol | 14.35 | 198  | 24       | 6.286     | ng    | # 1    |

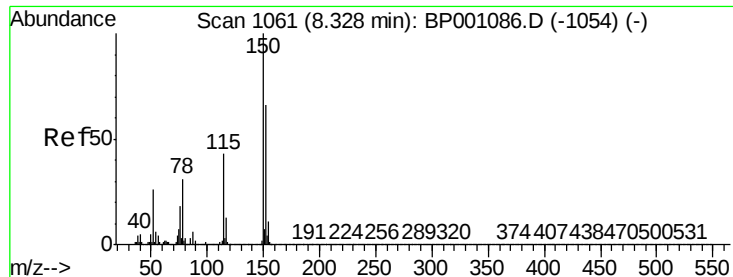
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\  
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Instrument :  
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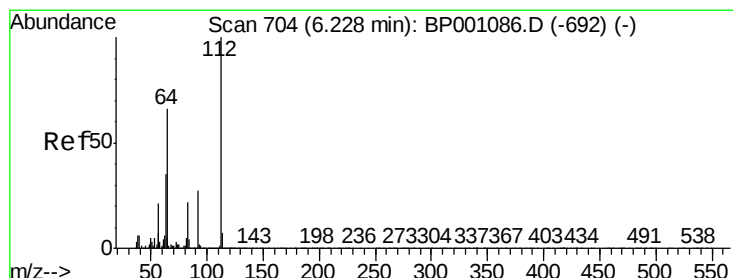
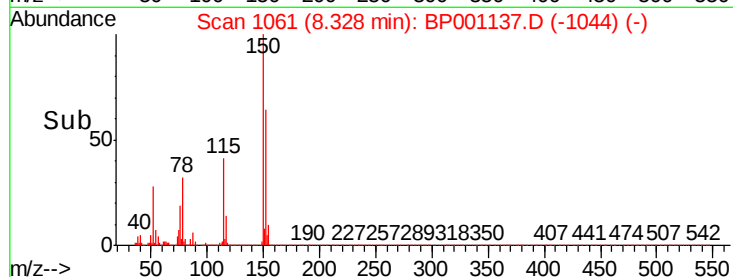
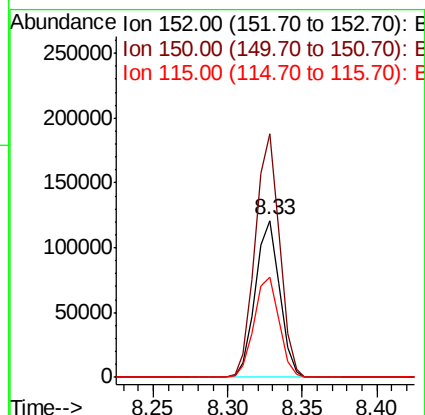
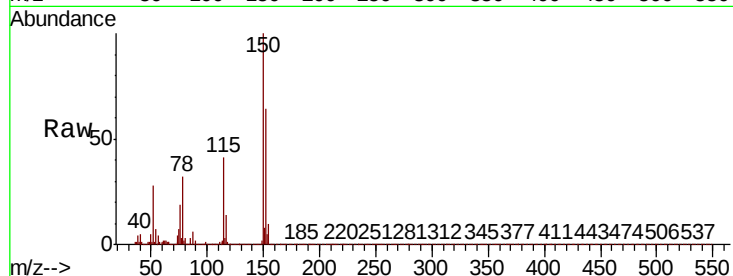




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.33 min Scan# 1061  
 Delta R.T. 0.00 min  
 Lab File: BP001137.D  
 Acq: 02 Dec 2019 20:43

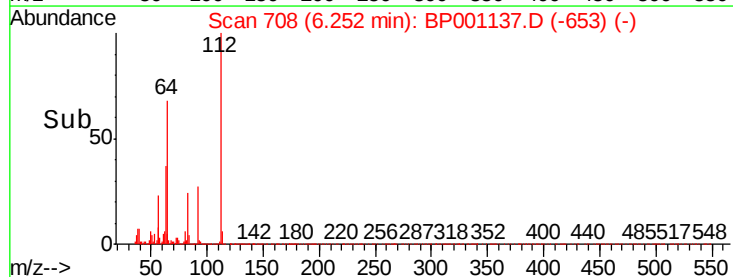
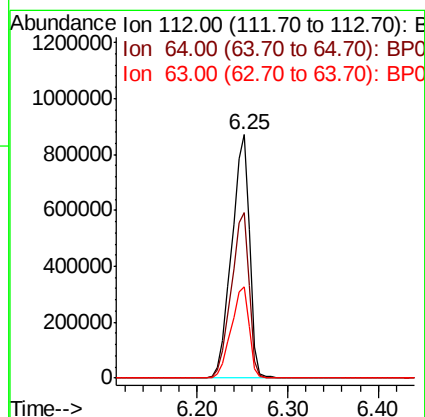
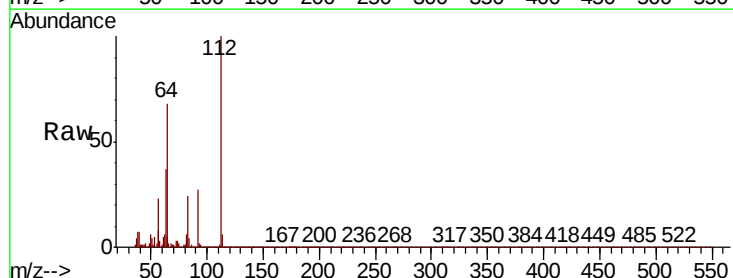
Instrument :  
 BNA\_P  
 ClientSampleId :

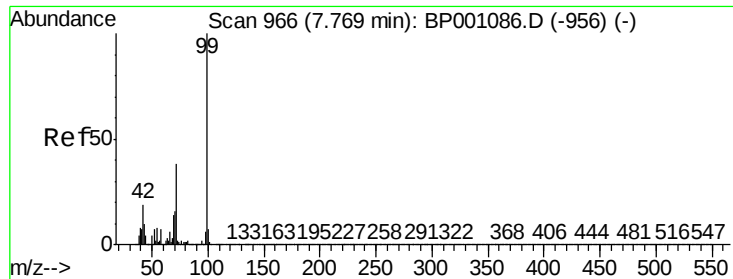
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.5 | 120.6 | 181.0 |
| 115     | 64.3  | 51.6  | 77.4  |



#5  
 2-Fluorophenol  
 Concen: 147.051 ng  
 RT: 6.25 min Scan# 708  
 Delta R.T. 0.02 min  
 Lab File: BP001137.D  
 Acq: 02 Dec 2019 20:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.1  | 52.8  | 79.2  |
| 63      | 37.3  | 28.2  | 42.2  |





#7

Phenol-d6

Concen: 147.373 ng

RT: 7.78 min Scan# 968

Delta R.T. 0.01 min

Lab File: BP001137.D

Acq: 02 Dec 2019 20:43

Instrument :

BNA\_P

ClientSampleId :

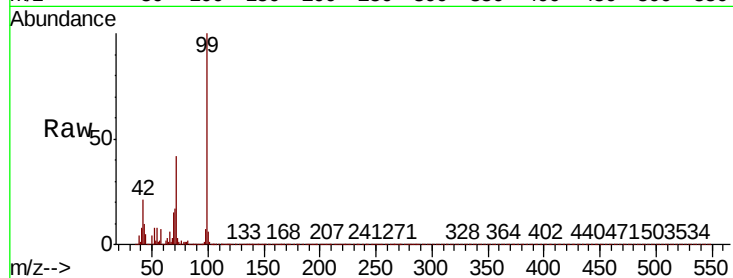
Tot Ion: 99 Resp: 1599929

Ion Ratio Lower Upper

99 100

42 20.8 15.4 23.0

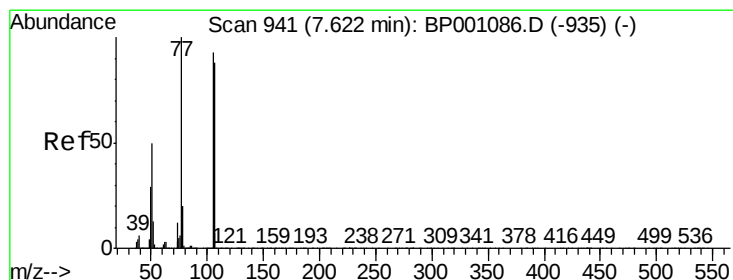
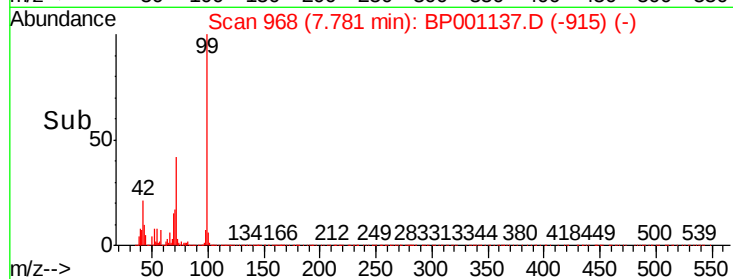
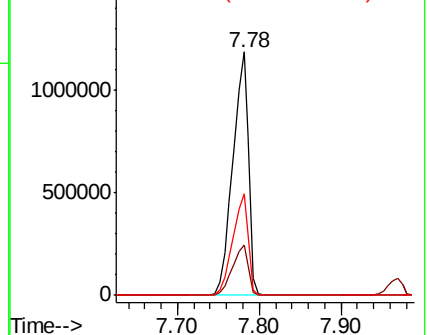
71 41.7 30.8 46.2



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#9

Benzaldehyde

Concen: Below Cal

RT: 7.61 min Scan# 939

Delta R.T. -0.01 min

Lab File: BP001137.D

Acq: 02 Dec 2019 20:43

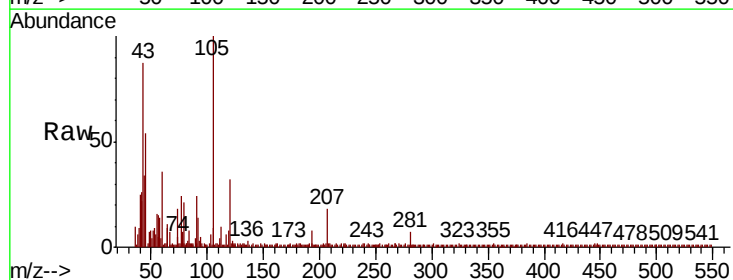
Tgt Ion: 77 Resp: 267

Ion Ratio Lower Upper

77 100

105 417.6 72.5 112.5#

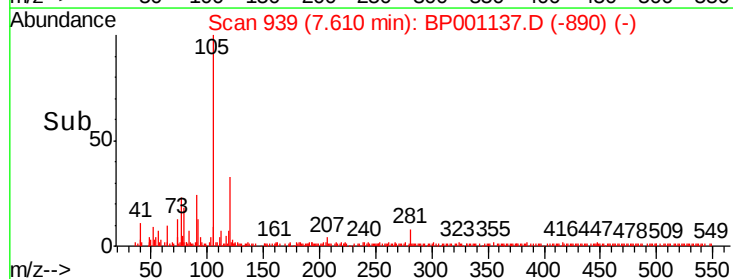
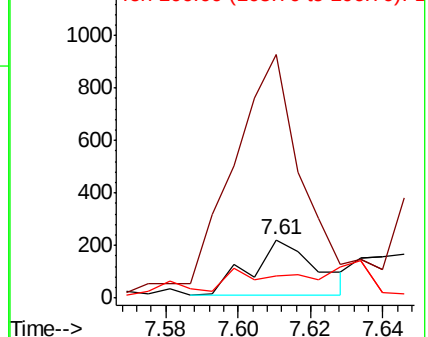
106 38.3 67.6 107.6#

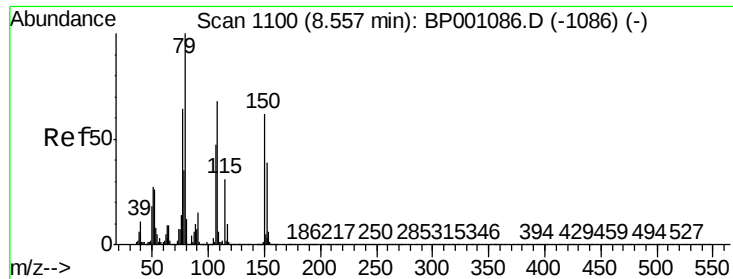


Abundance Ion 77.00 (76.70 to 77.70): BP0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

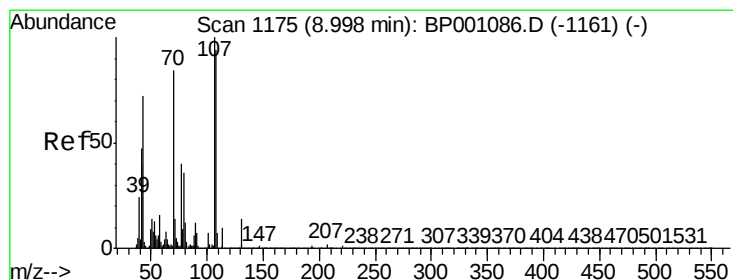
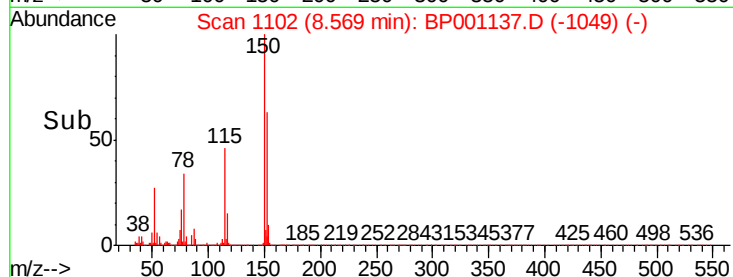
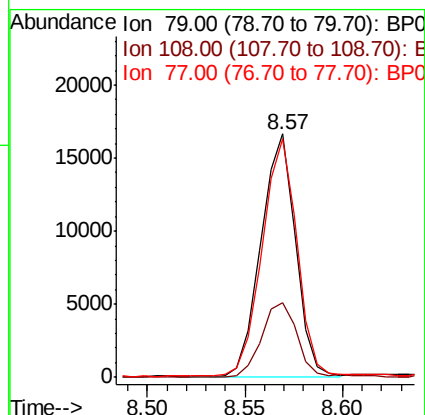
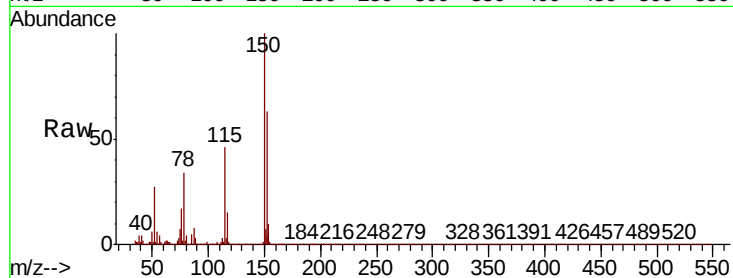




#15  
Benzyl Alcohol  
Concen: 2.290 ng  
RT: 8.57 min Scan# 1102  
Delta R.T. 0.01 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

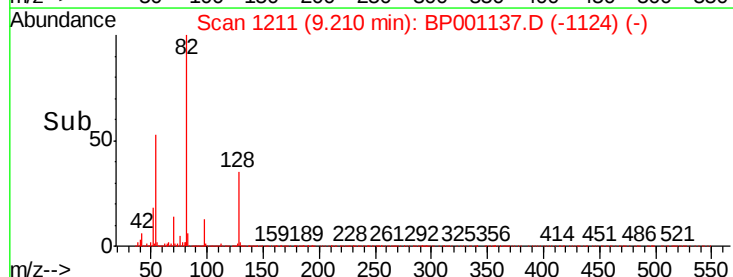
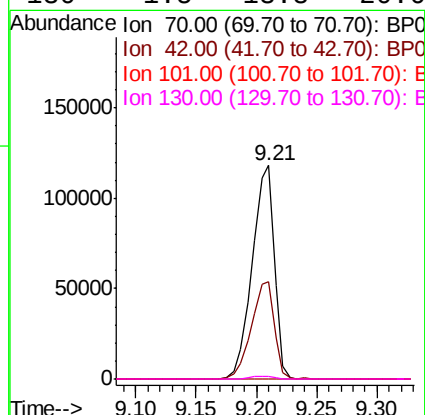
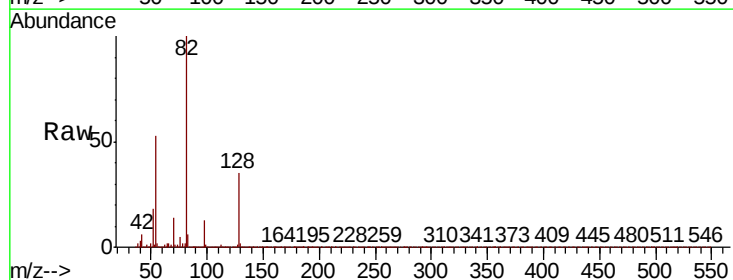
Instrument :  
BNA\_P  
ClientSampleId :

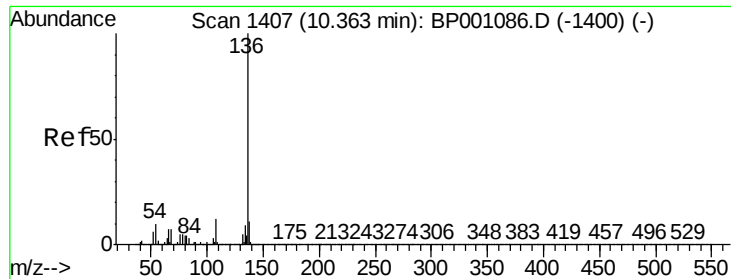
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 30.9  | 54.8  | 82.2# |
| 77      | 98.0  | 51.4  | 77.2# |



#19  
n-Nitroso-di-n-propylamine  
Concen: 19.411 ng  
RT: 9.21 min Scan# 1211  
Delta R.T. 0.21 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 45.8  | 44.6  | 66.8  |
| 101     | 0.0   | 7.1   | 10.7# |
| 130     | 1.5   | 13.8  | 20.6# |

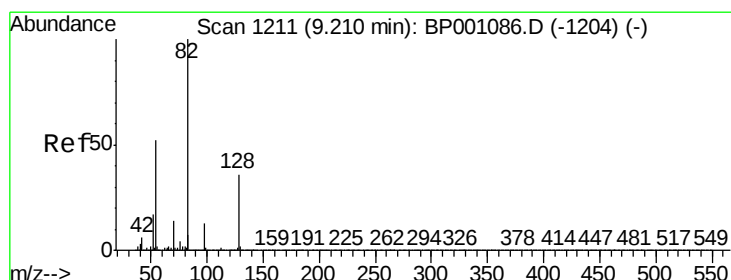
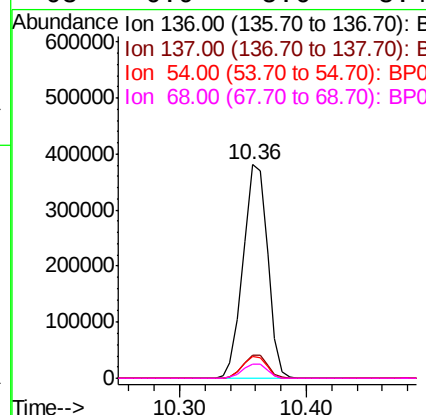
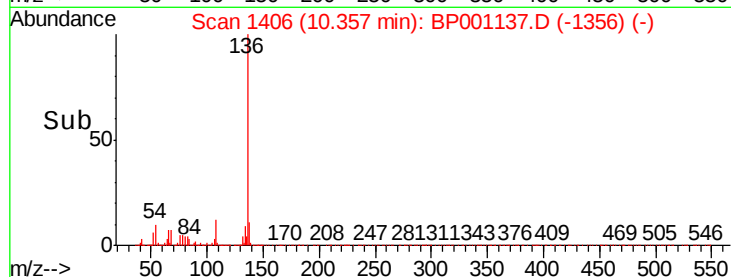
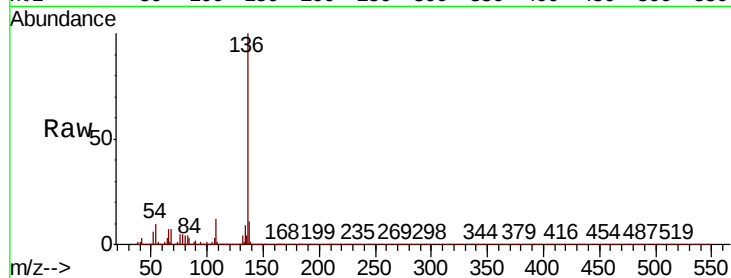




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.36 min Scan# 1406  
Delta R.T. -0.01 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

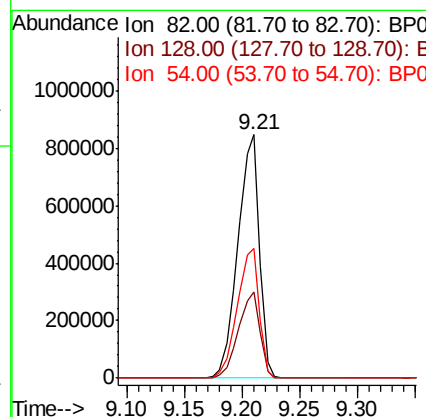
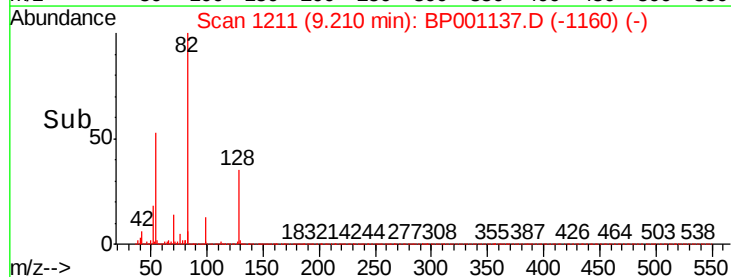
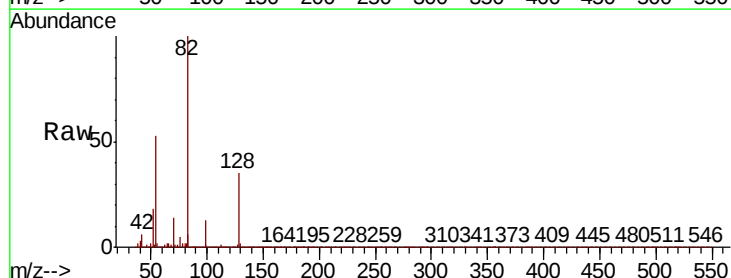
Instrument :  
BNA\_P  
ClientSampled :

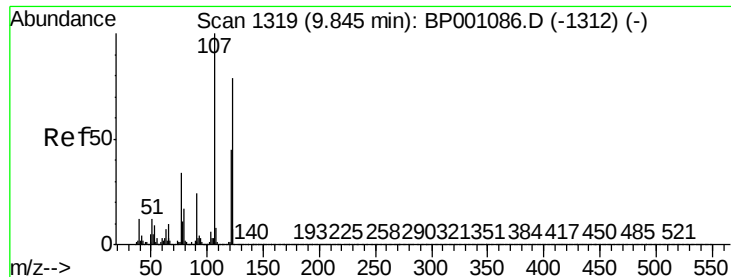
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 508772   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.1  | 8.8 13.2 |
| 54          | 10.2  | 7.9 11.9 |
| 68          | 6.9   | 5.6 8.4  |



#23  
Nitrobenzene-d5  
Concen: 92.960 ng  
RT: 9.21 min Scan# 1211  
Delta R.T. 0.00 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 1090118   |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 35.2  | 28.9 43.3 |
| 54          | 53.4  | 41.9 62.9 |

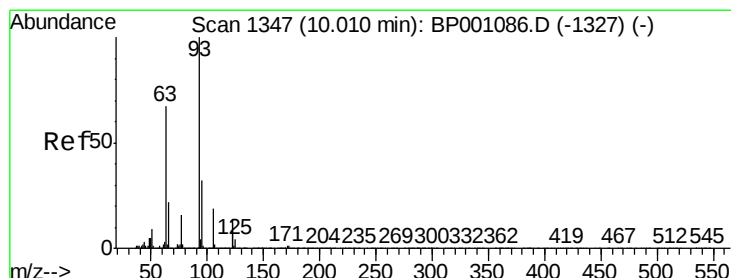
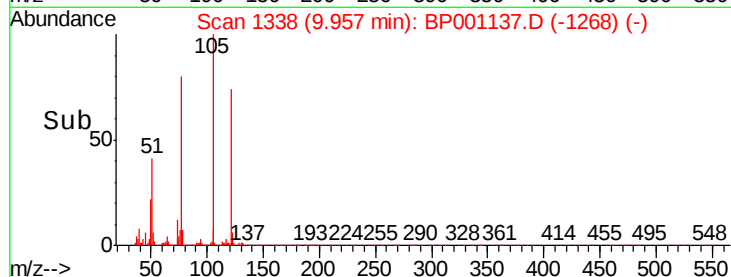
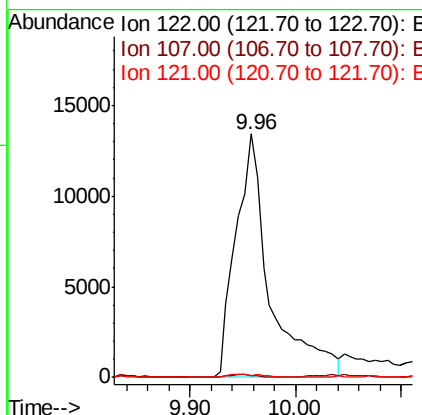
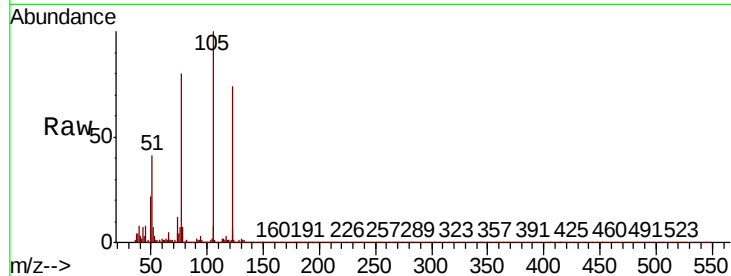




#27  
2,4-Dimethylphenol  
Concen: 4.474 ng  
RT: 9.96 min Scan# 1338  
Delta R.T. 0.11 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

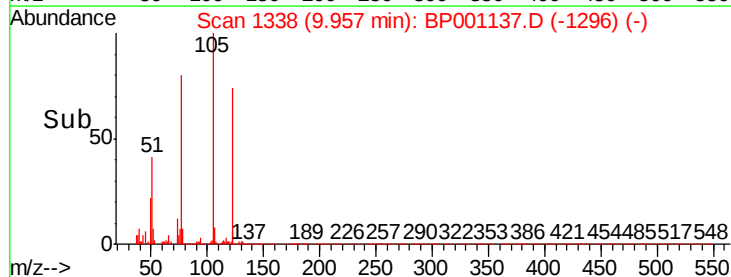
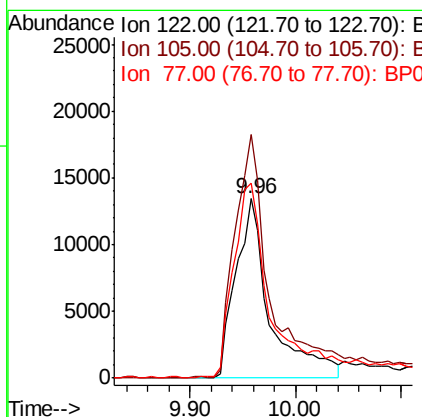
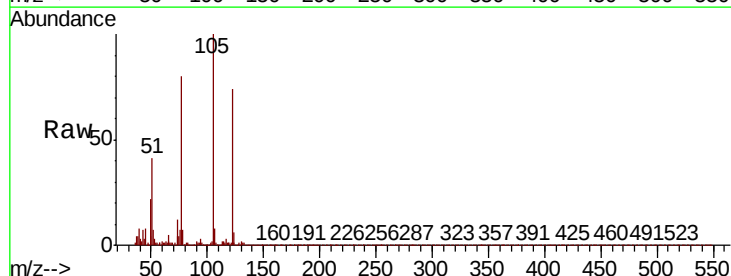
Instrument :  
BNA\_P  
ClientSampleId :

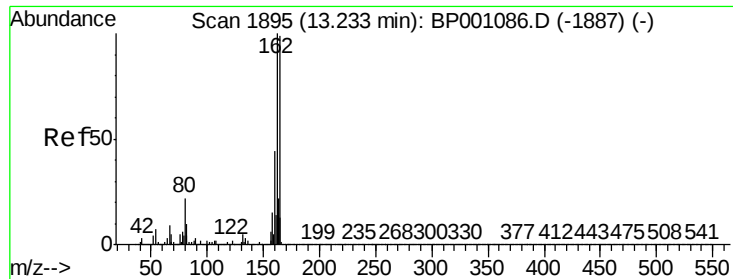
Tot Ion:122 Resp: 30272  
Ion Ratio Lower Upper  
122 100  
107 0.8 101.9 152.9#  
121 0.9 46.1 69.1#



#32  
Benzoic acid  
Concen: 6.189 ng  
RT: 9.96 min Scan# 1338  
Delta R.T. -0.05 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

Tgt Ion:122 Resp: 30272  
Ion Ratio Lower Upper  
122 100  
105 135.8 116.8 156.8  
77 108.9 95.0 135.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 13.23 min Scan# 1894

Delta R.T. -0.01 min

Lab File: BP001137.D

Acq: 02 Dec 2019 20:43

Instrument :

BNA\_P

ClientSampleId :

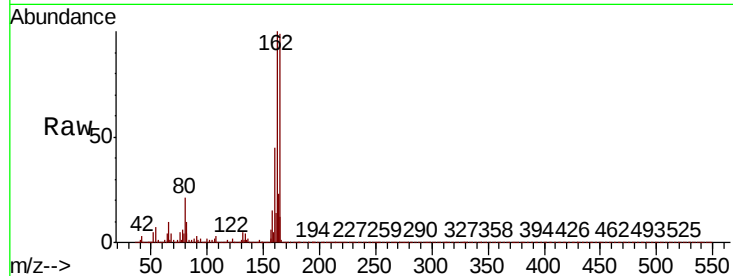
Tot Ion:164 Resp: 279243

Ion Ratio Lower Upper

164 100

162 101.1 80.6 120.8

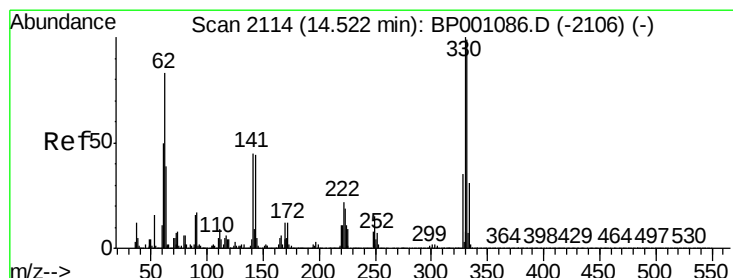
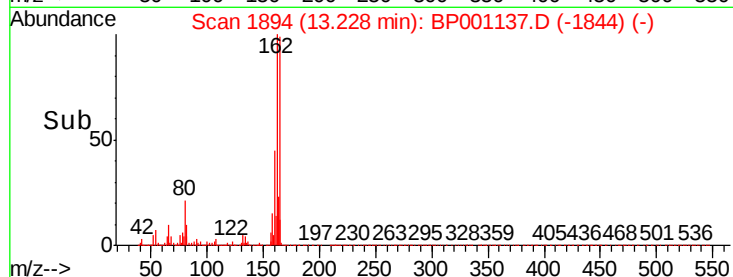
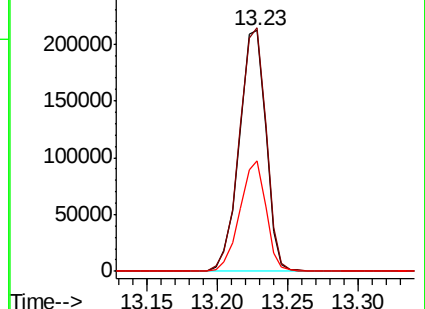
160 45.8 35.4 53.2



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: 146.328 ng

RT: 14.52 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BP001137.D

Acq: 02 Dec 2019 20:43

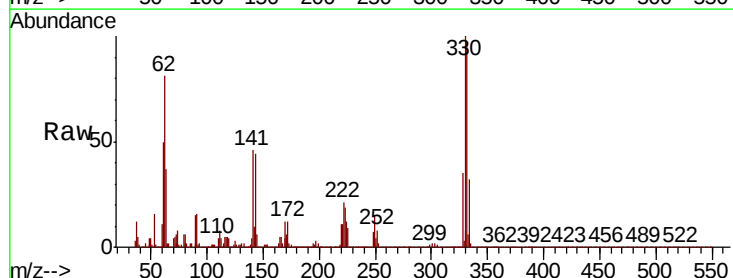
Tgt Ion:330 Resp: 391654

Ion Ratio Lower Upper

330 100

332 96.6 77.6 116.4

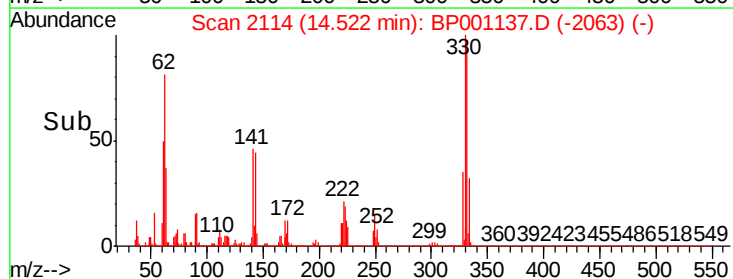
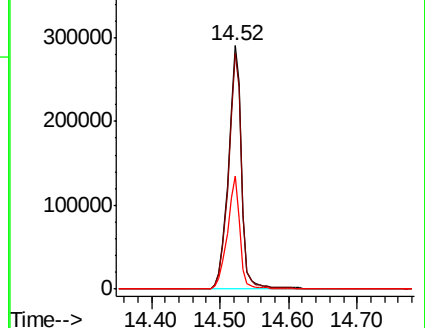
141 44.1 34.2 51.2

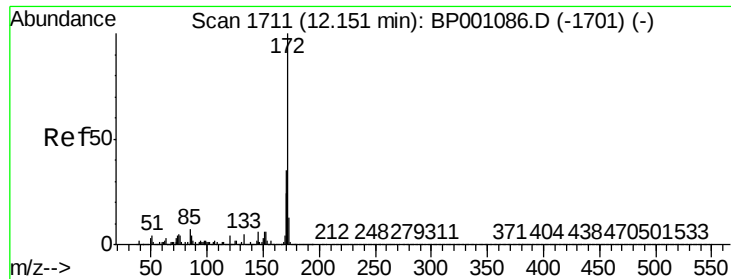


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

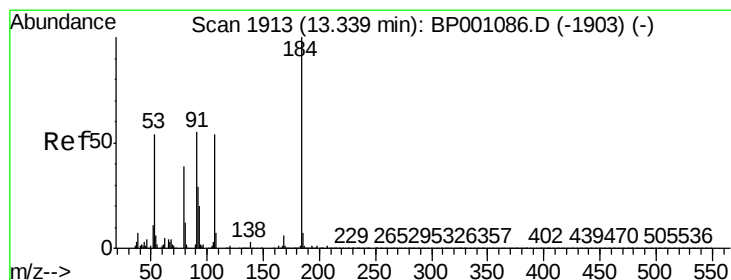
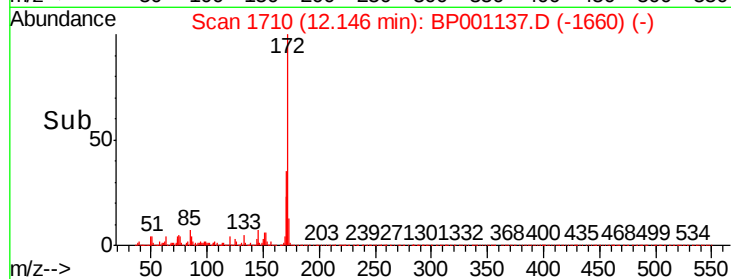
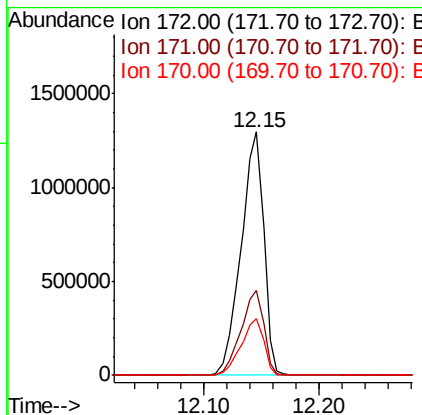
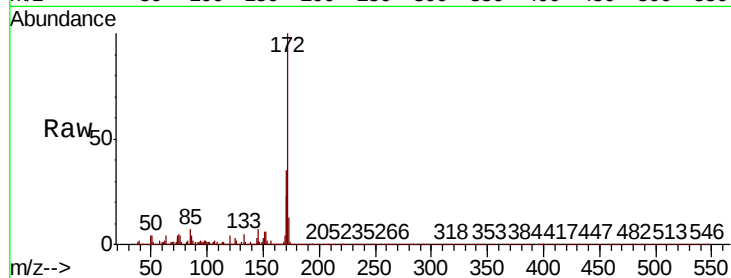




#45  
2-Fluorobiphenyl  
Concen: 92.546 ng  
RT: 12.15 min Scan# 1710  
Delta R.T. -0.01 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

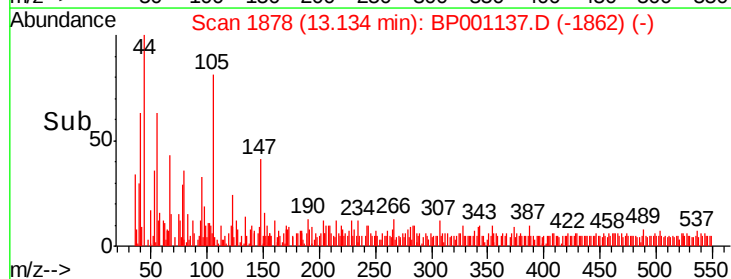
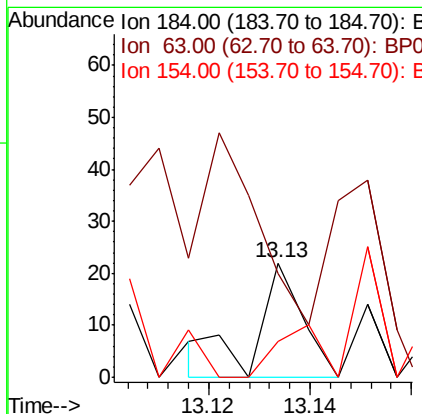
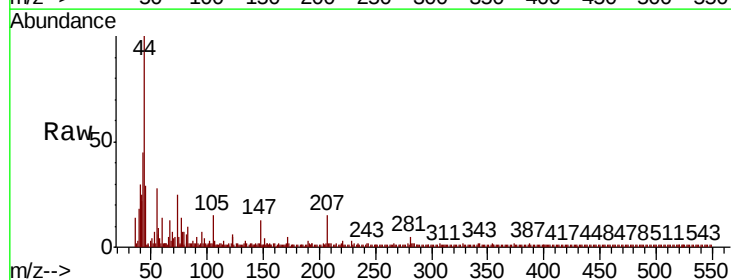
Instrument :  
BNA\_P  
ClientSampleId :

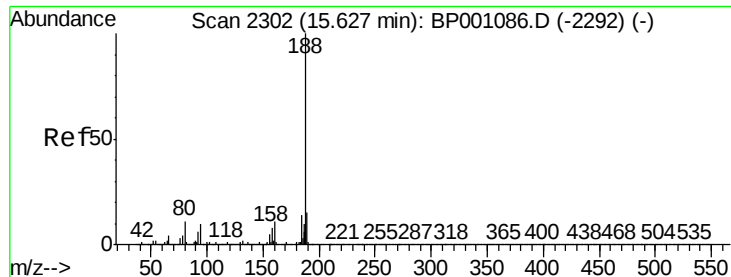
Tot Ion:172 Resp: 1765729  
Ion Ratio Lower Upper  
172 100  
171 34.8 27.9 41.9  
170 23.4 19.0 28.4



#54  
2,4-Dinitrophenol  
Concen: 7.116 ng  
RT: 13.13 min Scan# 1878  
Delta R.T. -0.21 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

Tgt Ion:184 Resp: 14  
Ion Ratio Lower Upper  
184 100  
63 90.9 60.7 91.1  
154 72.7 56.2 84.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 15.62 min Scan# 2301

Delta R.T. -0.01 min

Lab File: BP001137.D

Acq: 02 Dec 2019 20:43

Instrument :

BNA\_P

ClientSampleId :

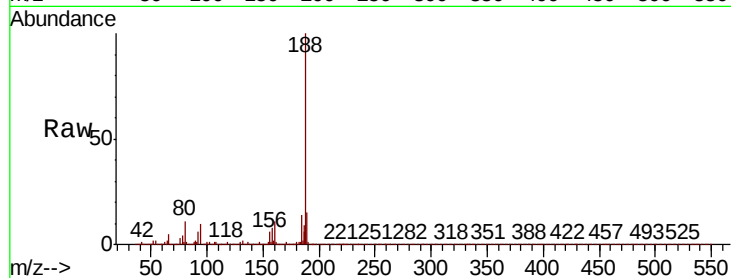
Tot Ion:188 Resp: 535573

Ion Ratio Lower Upper

188 100

94 10.1 7.9 11.9

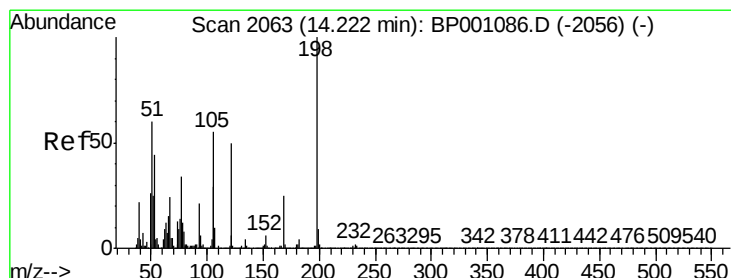
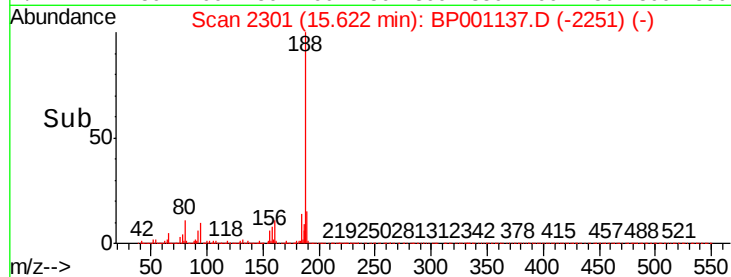
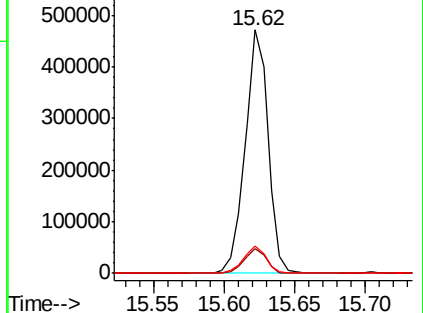
80 11.4 8.8 13.2



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



#65

4,6-Dinitro-2-methylphenol

Concen: 6.286 ng

RT: 14.35 min Scan# 2084

Delta R.T. 0.12 min

Lab File: BP001137.D

Acq: 02 Dec 2019 20:43

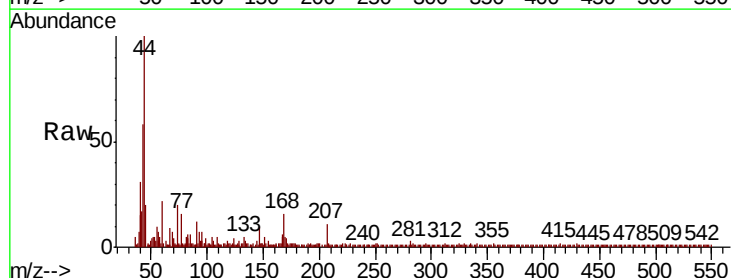
Tgt Ion:198 Resp: 24

Ion Ratio Lower Upper

198 100

51 220.0 40.5 80.5#

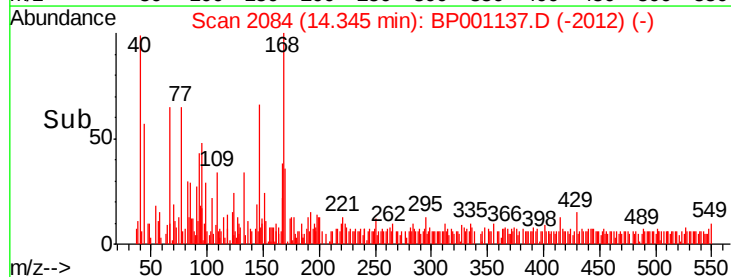
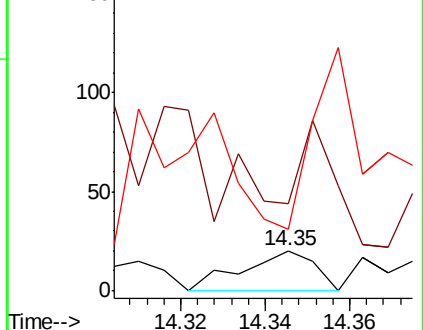
105 155.0 35.7 75.7#

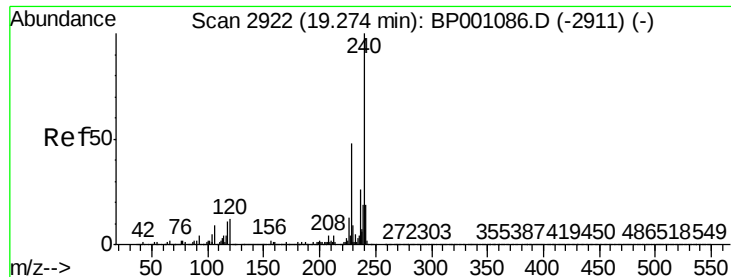


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BP0

Ion 105.00 (104.70 to 105.70): E

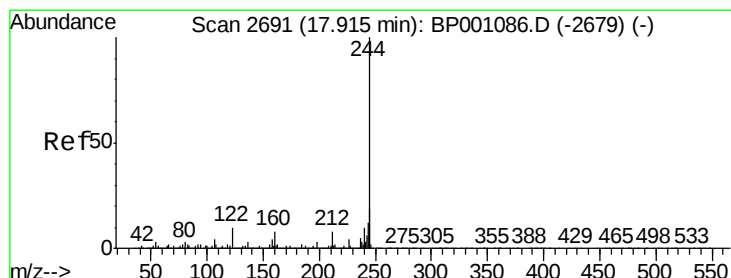
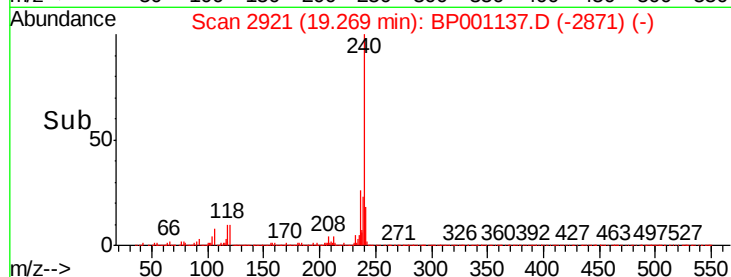
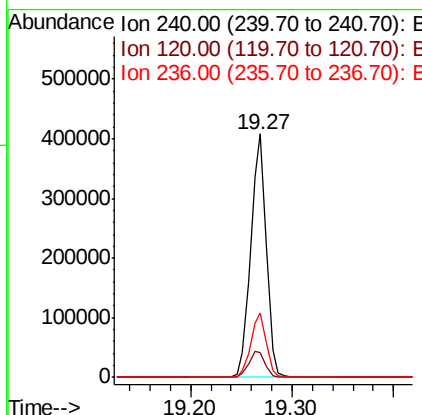
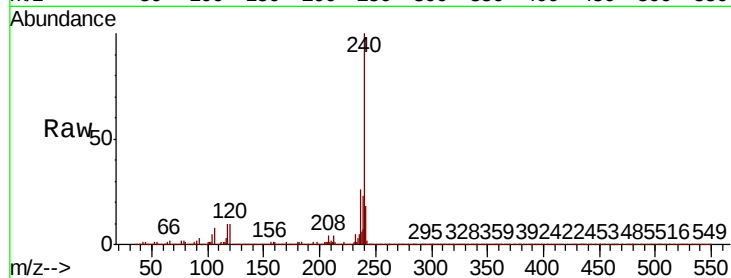




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 19.27 min Scan# 2921  
Delta R.T. -0.01 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

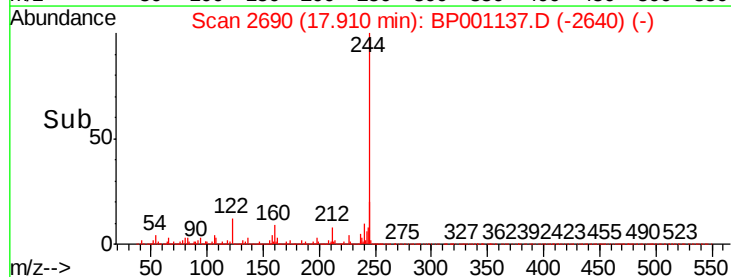
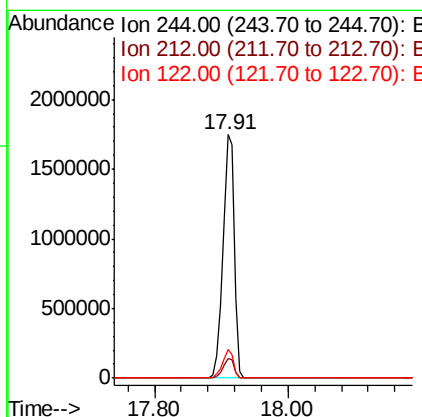
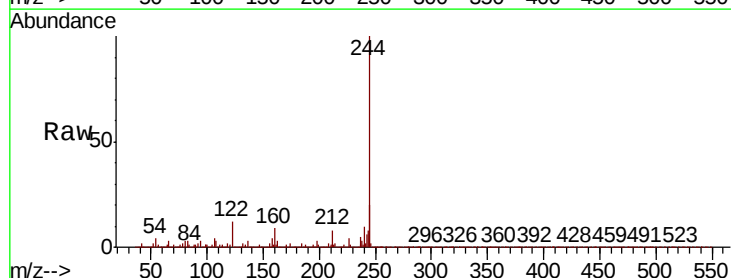
Instrument :  
BNA\_P  
ClientSampled :

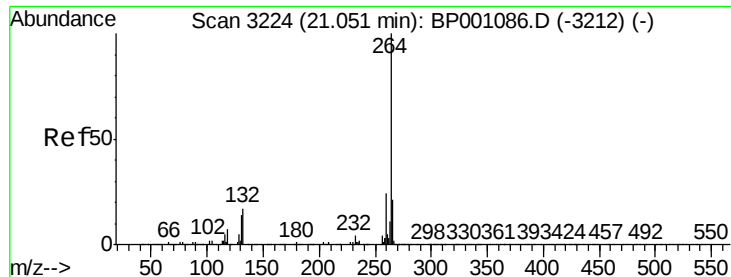
Tot Ion:240 Resp: 433609  
Ion Ratio Lower Upper  
240 100  
120 10.3 9.5 14.3  
236 26.3 20.4 30.6



#79  
Terphenyl-d14  
Concen: 89.545 ng  
RT: 17.91 min Scan# 2690  
Delta R.T. -0.01 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

Tgt Ion:244 Resp: 2098674  
Ion Ratio Lower Upper  
244 100  
212 8.1 6.2 9.2  
122 11.7 8.2 12.2





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 21.05 min Scan# 3223  
Delta R.T. -0.01 min  
Lab File: BP001137.D  
Acq: 02 Dec 2019 20:43

Instrument :  
BNA\_P  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 18.8  | 28.2  |
| 265     | 21.6  | 16.9  | 25.3  |

