

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102318\  
 Data File : BM017298.D  
 Acq On : 23 Oct 2018 23:18  
 Operator : MJ/SJ  
 Sample : J5604-08  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Oct 24 06:59:05 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM101718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 17 14:23:17 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 307308   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.43 | 136  | 1113588  | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.30 | 164  | 579203   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.05 | 188  | 1188909  | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.24 | 240  | 1295460  | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 23.46 | 264  | 1405025  | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.29  | 112  | 62594    | 3.44   | ng    | 0.00     |
| 7) Phenol-d6                | 6.85  | 99   | 677927   | 27.40  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 8.82  | 82   | 1532472  | 80.49  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.80 | 330  | 896956   | 114.51 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 12.92 | 172  | 3390041  | 77.88  | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.69 | 244  | 4133407  | 71.92  | ng    | -0.01    |

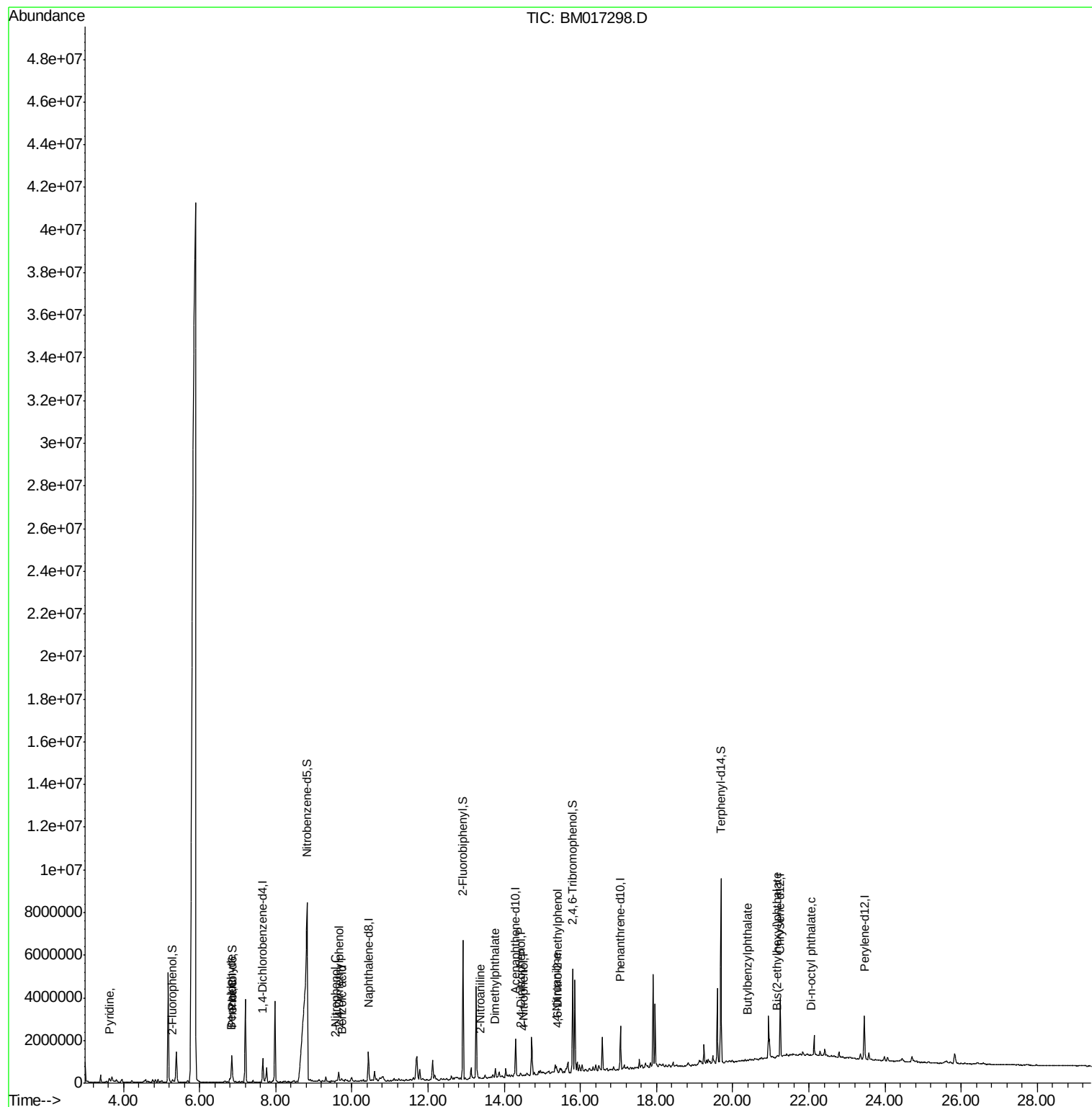
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 3) Pyridine                    | 3.63  | 79   | 142164   | 6.659 | ng    | # 44   |
| 9) Benzaldehyde                | 6.82  | 77   | 64958    | 4.117 | ng    | 96     |
| 10) Phenol                     | 6.87  | 94   | 127408   | 4.784 | ng    | 99     |
| 26) 2-Nitrophenol              | 9.56  | 139  | 116      | 5.714 | ng    | # 1    |
| 27) 2,4-Dimethylphenol         | 9.66  | 122  | 129275   | 9.299 | ng    | # 88   |
| 32) Benzoic acid               | 9.73  | 122  | 35508    | 3.423 | ng    | # 85   |
| 48) 2-Nitroaniline             | 13.37 | 65   | 4068     | 6.018 | ng    | # 30   |
| 50) Dimethylphthalate          | 13.76 | 163  | 251660   | 5.632 | ng    | 99     |
| 54) 2,4-Dinitrophenol          | 14.43 | 184  | 145      | 8.249 | ng    | # 1    |
| 56) 4-Nitrophenol              | 14.50 | 139  | 395      | 4.755 | ng    | # 1    |
| 62) 4-Nitroaniline             | 15.37 | 138  | 658      | 4.805 | ng    | # 1    |
| 65) 4,6-Dinitro-2-methylphenol | 15.42 | 198  | 181      | 7.023 | ng    | # 1    |
| 80) Butylbenzylphthalate       | 20.39 | 149  | 2041     | 7.239 | ng    | # 1    |
| 84) Bis(2-ethylhexyl)phthalate | 21.17 | 149  | 27004    | 5.878 | ng    | # 81   |
| 85) Di-n-octyl phthalate       | 22.05 | 149  | 1868     | 5.595 | ng    | # 64   |

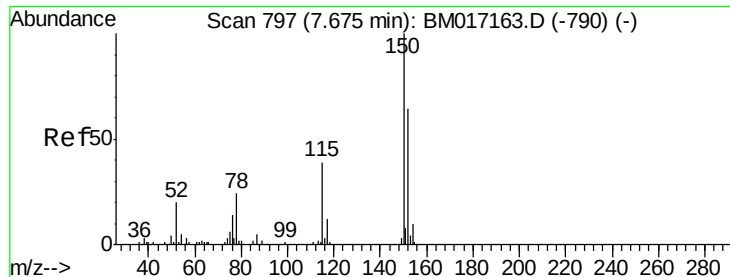
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102318\  
Data File : BM017298.D  
Acq On : 23 Oct 2018 23:18  
Operator : MJ/SJ  
Sample : J5604-08  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :

Quant Time: Oct 24 06:59:05 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM101718.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 17 14:23:17 2018  
Response via : Initial Calibration



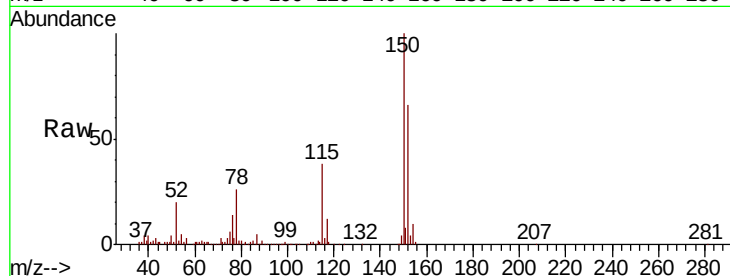


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.66 min Scan# 795  
Delta R.T. -0.01 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.0 | 124.3 | 186.5 |
| 115     | 58.2  | 48.1  | 72.1  |

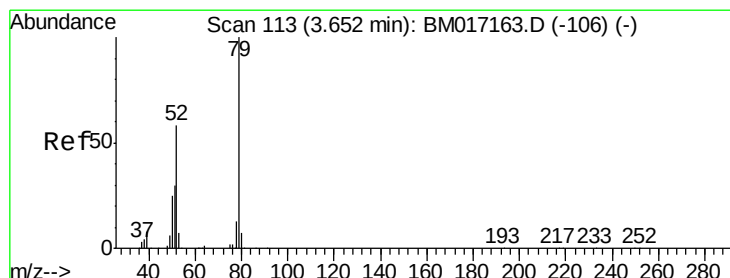
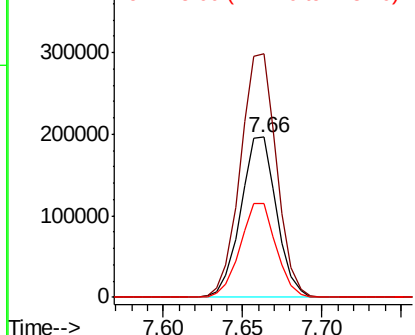
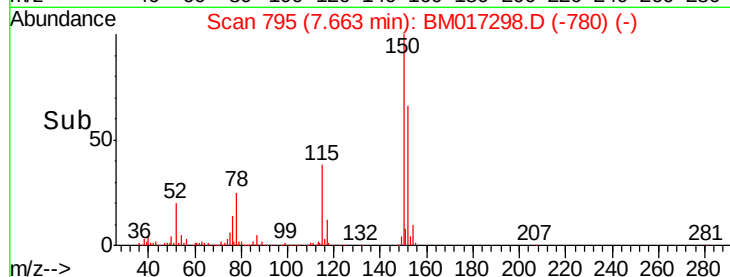


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

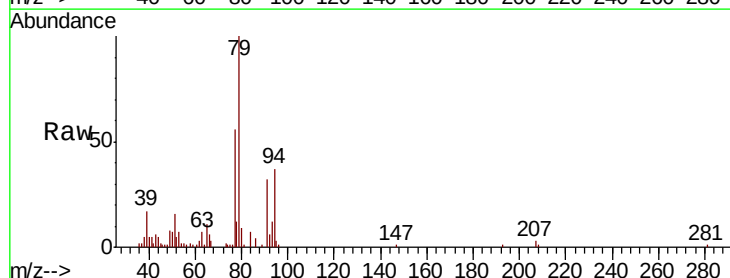
Ion 115.00 (114.70 to 115.70): E



#3

Pyridine  
Concen: 6.659 ng  
RT: 3.63 min Scan# 109  
Delta R.T. -0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 5.4   | 46.5  | 69.7# |
| 51      | 15.8  | 24.6  | 37.0# |

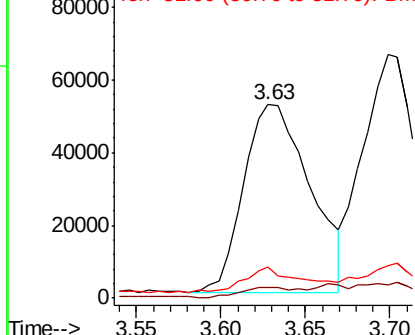
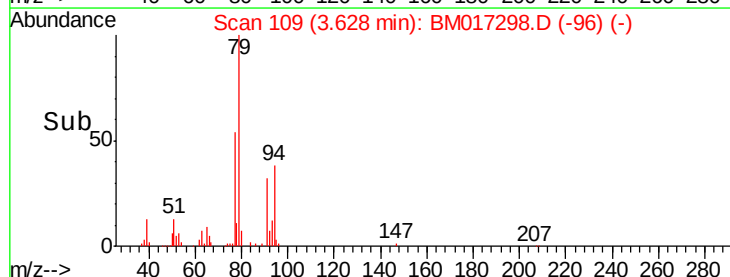


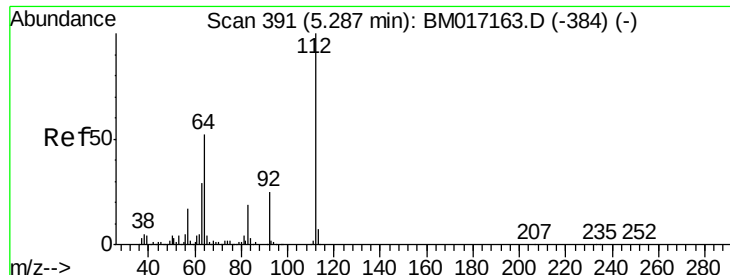
Abundance

Ion 79.00 (78.70 to 79.70): BM0

Ion 52.00 (51.70 to 52.70): BM0

Ion 51.00 (50.70 to 51.70): BM0





#5

2-Fluorophenol

Concen: 3.445 ng

RT: 5.29 min Scan# 391

Delta R.T. 0.00 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

Instrument :

BNA\_M

ClientSampleId :

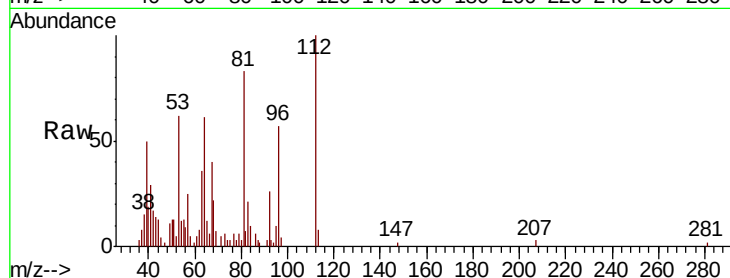
Tot Ion:112 Resp: 62594

Ion Ratio Lower Upper

112 100

64 60.7 41.7 62.5

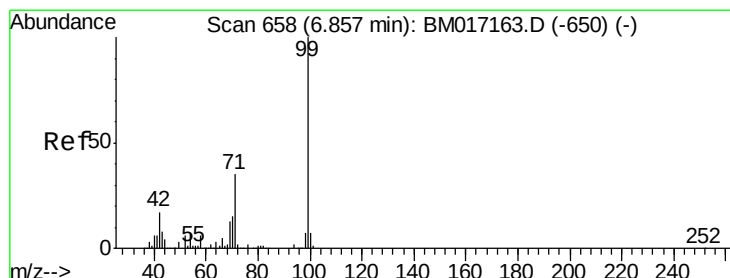
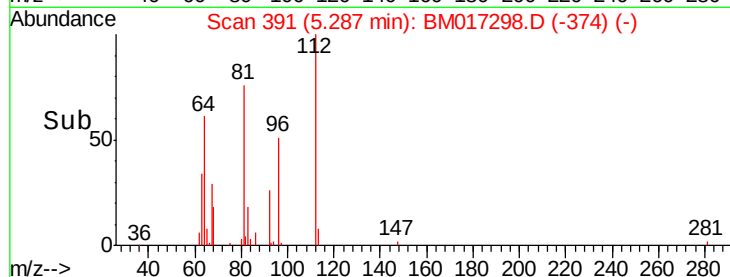
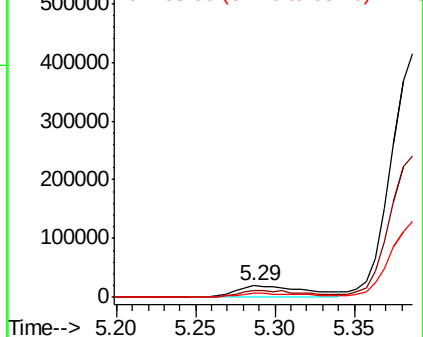
63 36.4 23.0 34.4#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM



#7

Phenol-d6

Concen: 27.396 ng

RT: 6.85 min Scan# 656

Delta R.T. -0.01 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

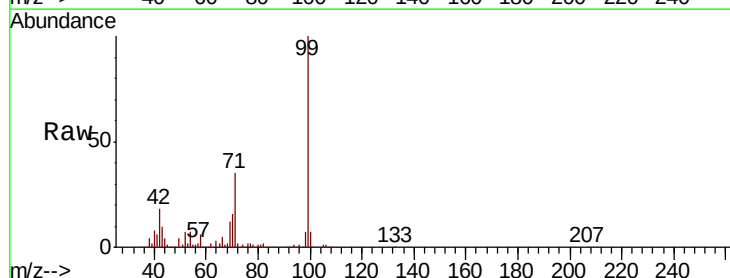
Tgt Ion: 99 Resp: 677927

Ion Ratio Lower Upper

99 100

42 17.6 13.3 19.9

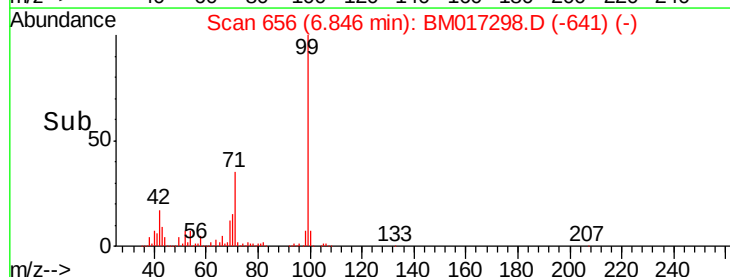
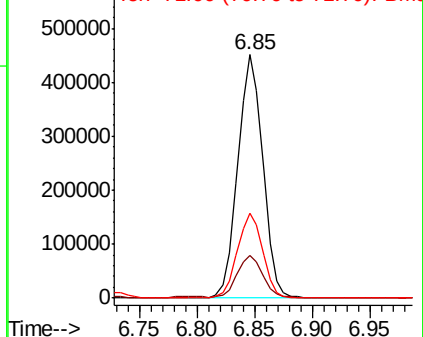
71 34.8 28.0 42.0

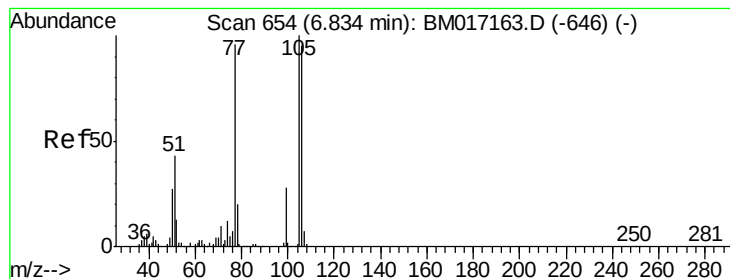


Abundance Ion 99.00 (98.70 to 99.70): BM

Ion 42.00 (41.70 to 42.70): BM

Ion 71.00 (70.70 to 71.70): BM





#9

Benzaldehyde

Concen: 4.117 ng

RT: 6.82 min Scan# 652

Delta R.T. -0.01 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

Instrument :

BNA\_M

ClientSampled :

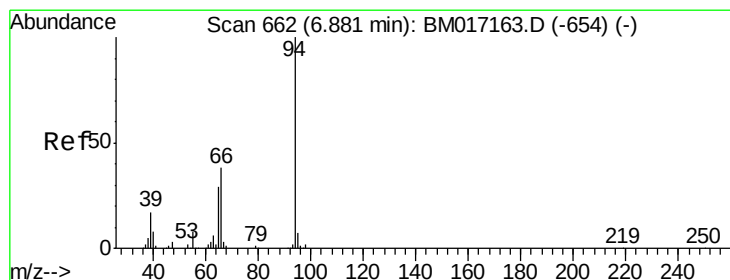
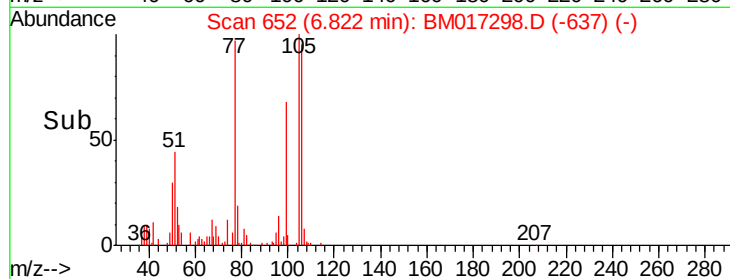
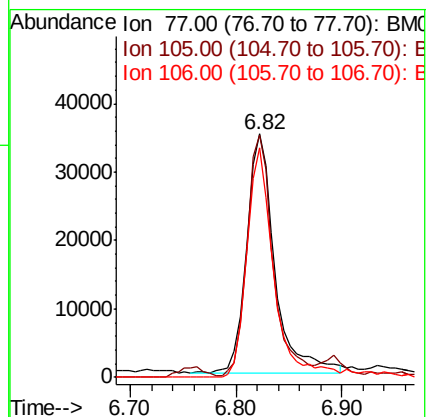
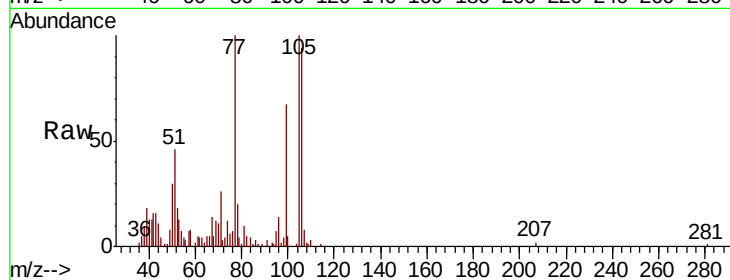
Tot Ion: 77 Resp: 64958

Ion Ratio Lower Upper

77 100

105 99.6 83.9 123.9

106 94.4 78.2 118.2



#10

Phenol

Concen: 4.784 ng

RT: 6.87 min Scan# 660

Delta R.T. -0.01 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

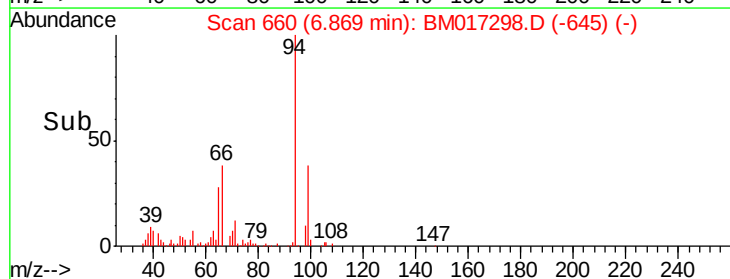
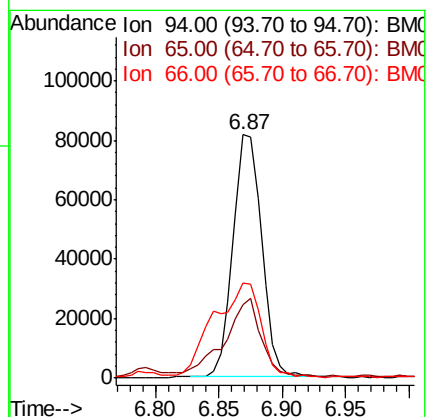
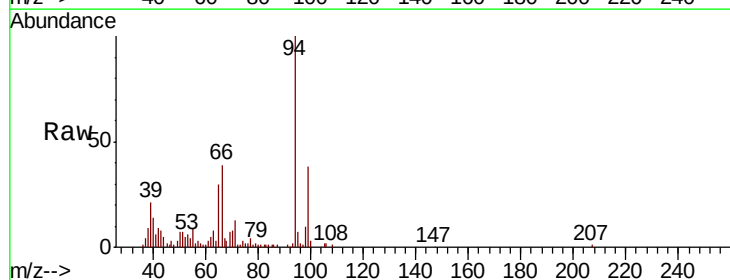
Tgt Ion: 94 Resp: 127408

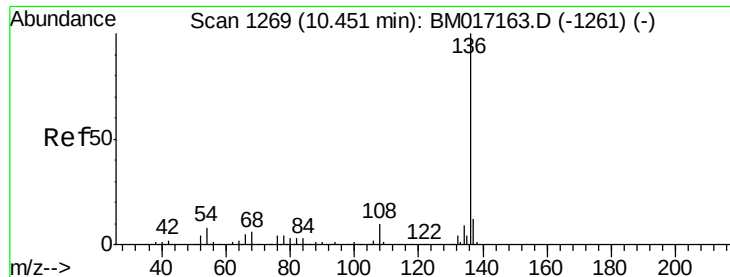
Ion Ratio Lower Upper

94 100

65 30.2 9.4 49.4

66 39.1 19.0 59.0

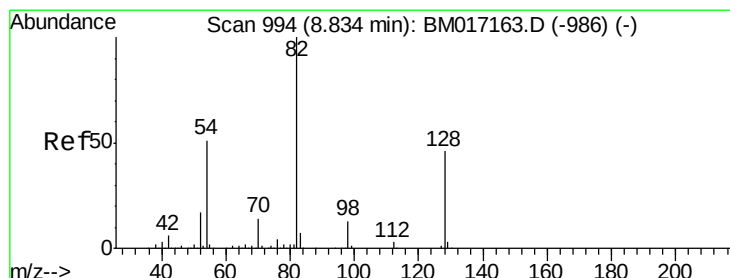
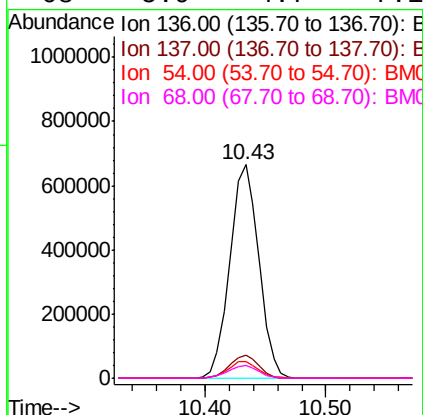
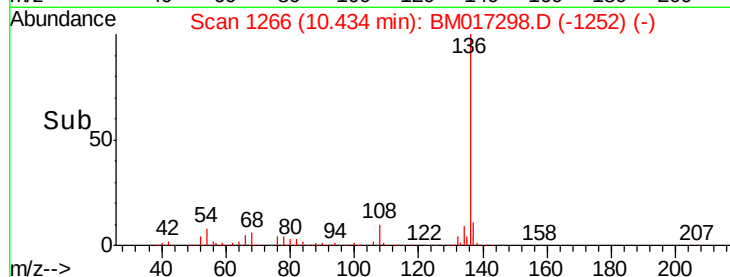
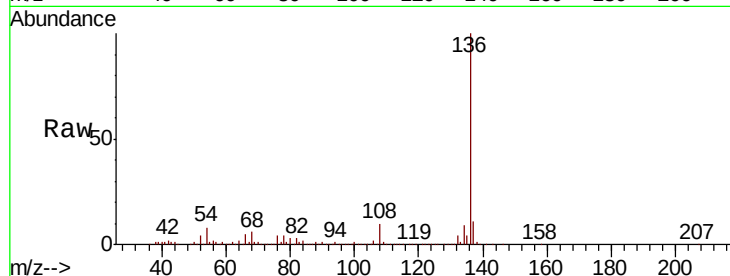




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.43 min Scan# 1266  
Delta R.T. -0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

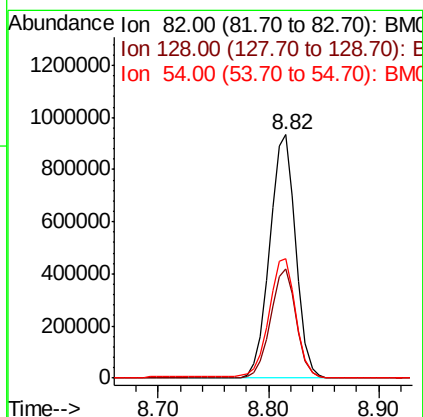
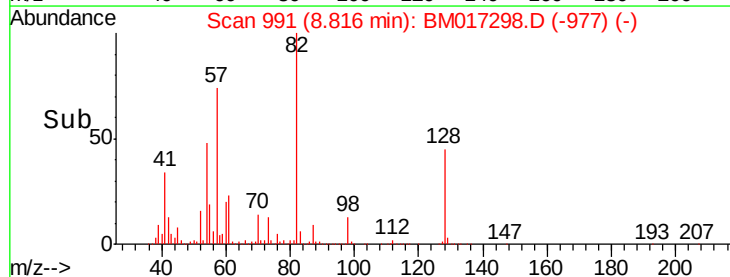
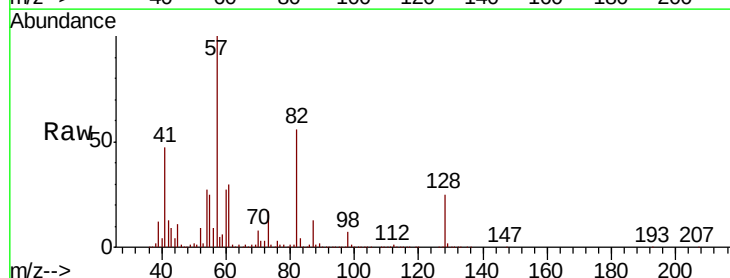
Instrument :  
BNA\_M  
ClientSampled :

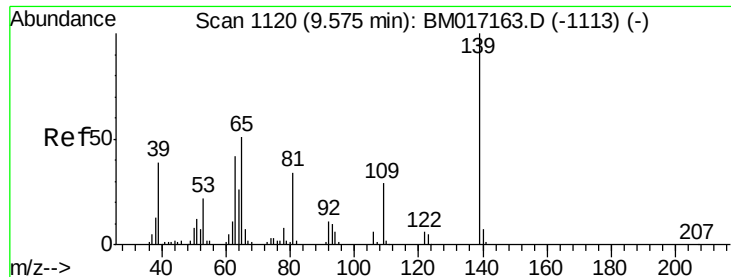
Tot Ion:136 Resp: 1113588  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.2 13.8  
54 8.0 6.7 10.1  
68 5.9 4.7 7.1



#23  
Nitrobenzene-d5  
Concen: 80.485 ng  
RT: 8.82 min Scan# 991  
Delta R.T. -0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Tgt Ion: 82 Resp: 1532472  
Ion Ratio Lower Upper  
82 100  
128 45.1 37.0 55.6  
54 48.9 40.7 61.1

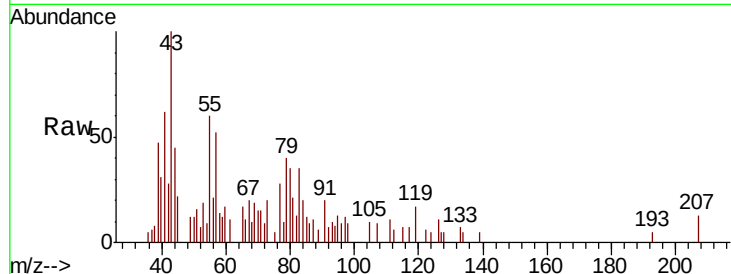




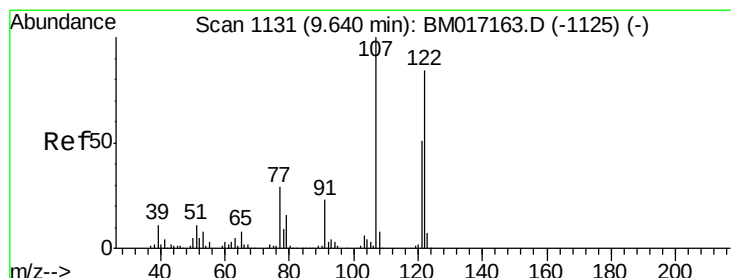
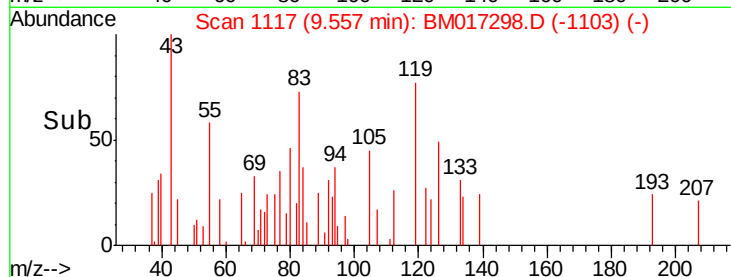
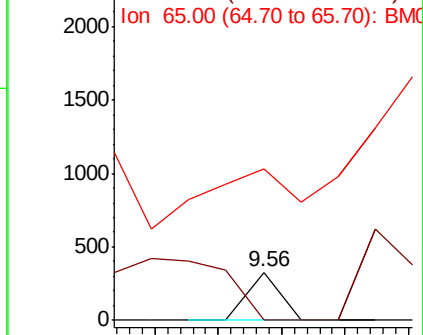
#26  
2-Nitrophenol  
Concen: 5.714 ng  
RT: 9.56 min Scan# 1117  
Delta R.T. -0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:139 Resp: 116  
Ion Ratio Lower Upper  
139 100  
109 0.0 23.2 34.8#  
65 314.6 40.6 61.0#

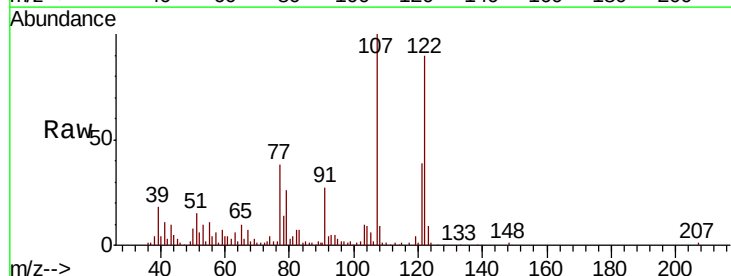


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BM

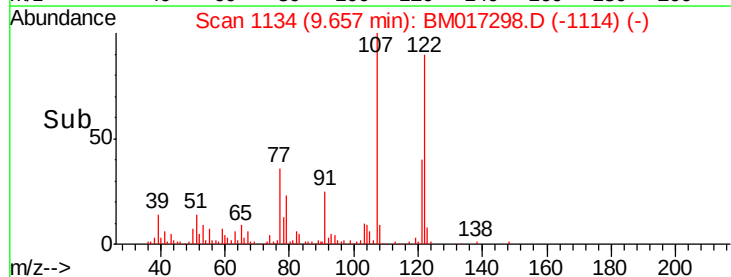
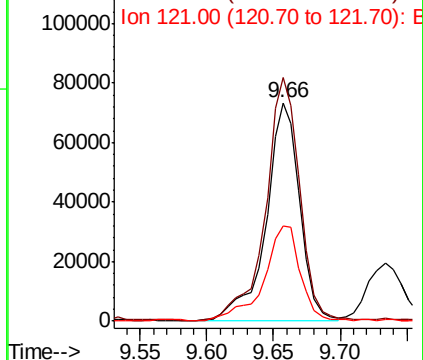


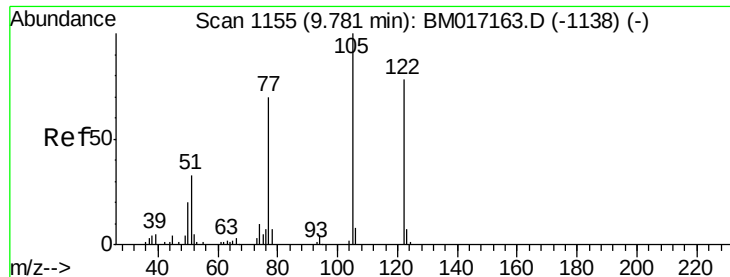
#27  
2,4-Dimethylphenol  
Concen: 9.299 ng  
RT: 9.66 min Scan# 1134  
Delta R.T. 0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Tgt Ion:122 Resp: 129275  
Ion Ratio Lower Upper  
122 100  
107 111.5 95.0 142.6  
121 43.8 48.2 72.4#



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E

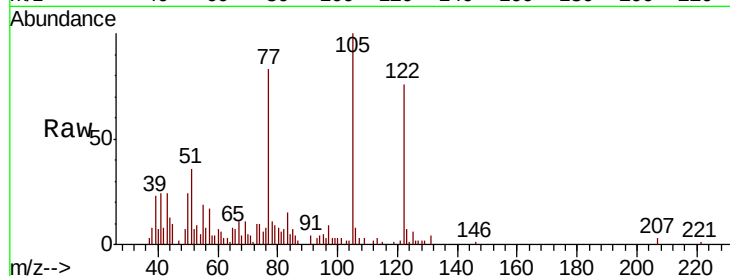




#32  
Benzoic acid  
Concen: 3.423 ng  
RT: 9.73 min Scan# 1147  
Delta R.T. -0.05 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 132.1 | 102.0 | 142.0 |
| 77      | 109.9 | 67.7  | 107.7 |

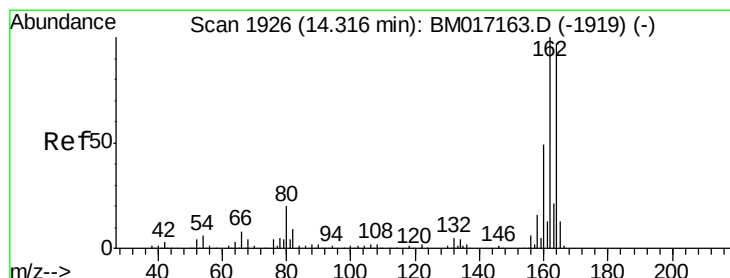
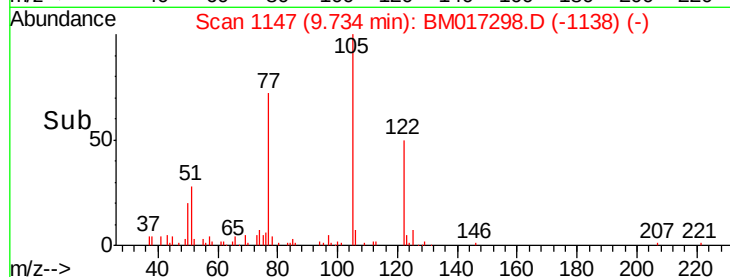
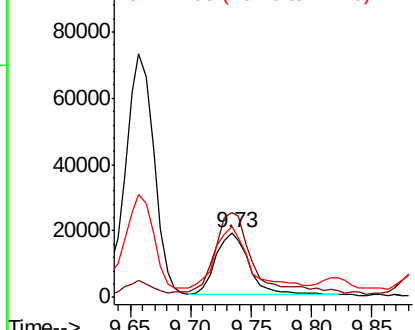


Abundance

Ion 122.00 (121.70 to 122.70): E

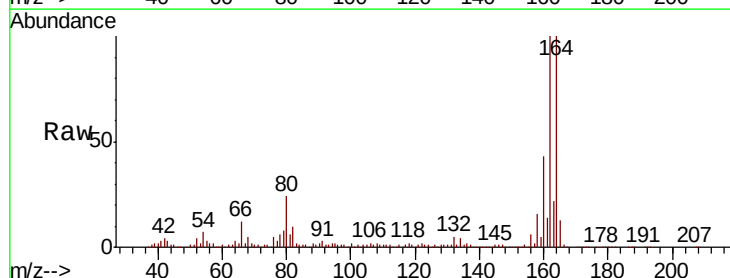
Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.30 min Scan# 1923  
Delta R.T. -0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.4 | 82.1  | 123.1 |
| 160     | 43.6  | 40.2  | 60.2  |

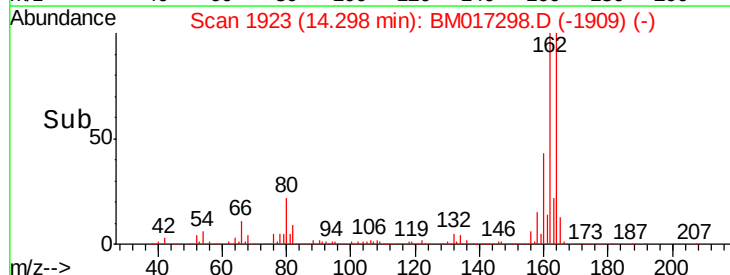
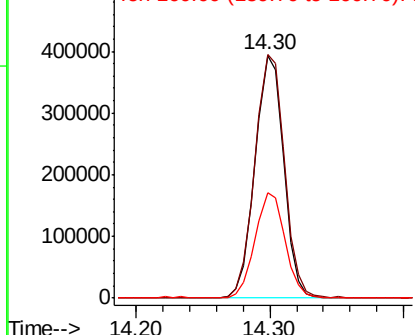


Abundance

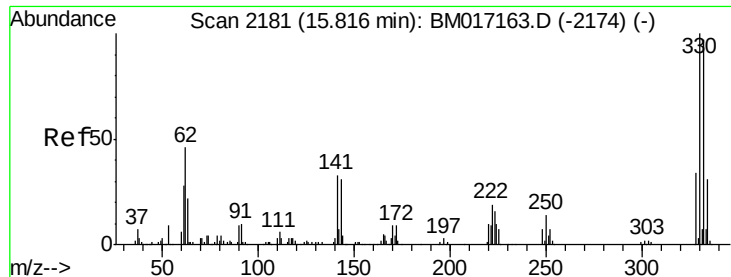
Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



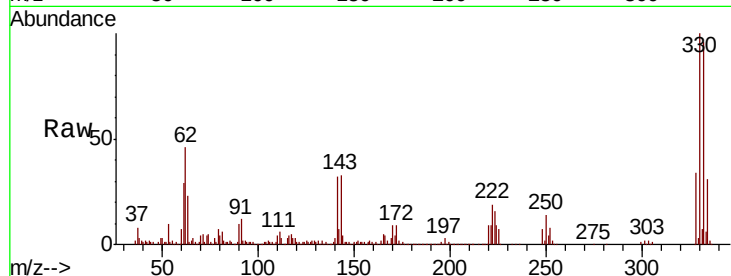




#42  
 2,4,6-Tribromophenol  
 Concen: 114.512 ng  
 RT: 15.80 min Scan# 2178  
 Delta R.T. -0.02 min  
 Lab File: BM017298.D  
 Acq: 23 Oct 2018 23:18

Instrument :  
 BNA\_M  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 77.3  | 115.9 |
| 141     | 32.4  | 27.4  | 41.0  |

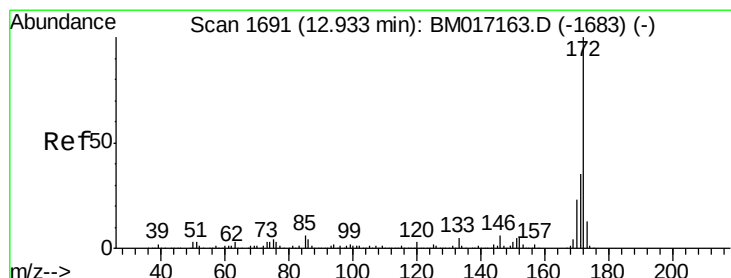
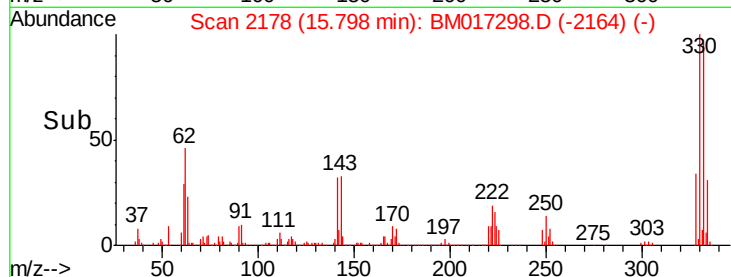
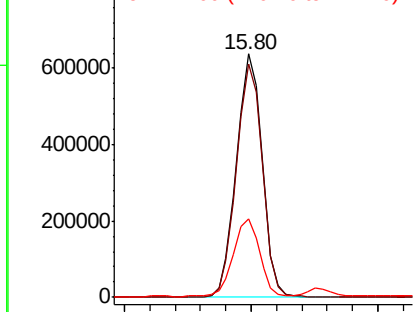


Abundance

Ion 329.80 (329.50 to 330.50): E

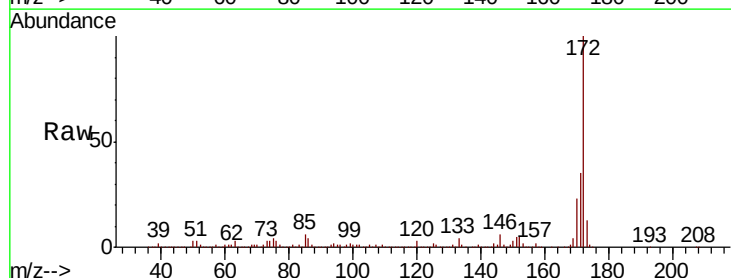
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 77.876 ng  
 RT: 12.92 min Scan# 1688  
 Delta R.T. -0.02 min  
 Lab File: BM017298.D  
 Acq: 23 Oct 2018 23:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 28.3  | 42.5  |
| 170     | 22.8  | 18.3  | 27.5  |

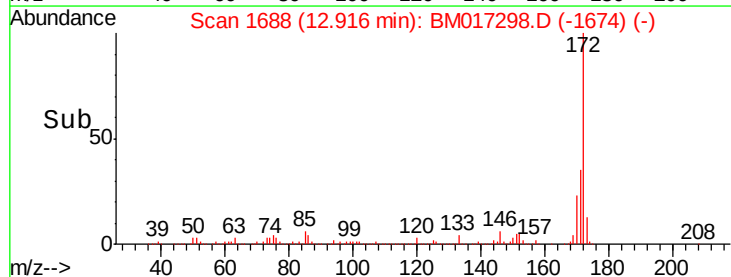
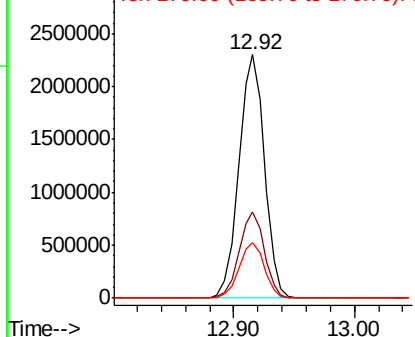


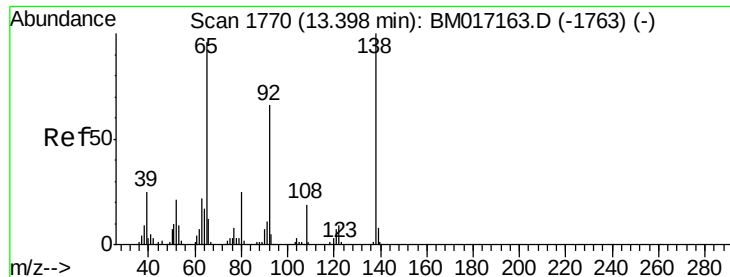
Abundance

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





#48

2-Nitroaniline

Concen: 6.018 ng

RT: 13.37 min Scan# 1766

Delta R.T. -0.02 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

Instrument :

BNA\_M

ClientSampleId :

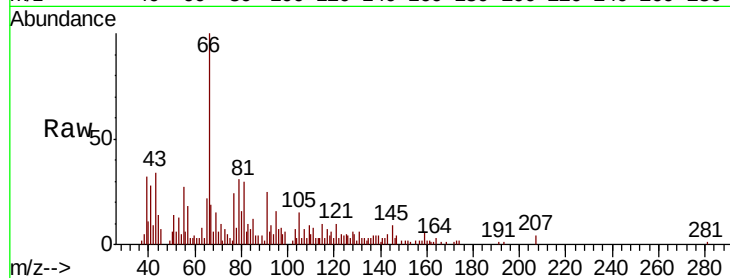
Tot Ion: 65 Resp: 4068

Ion Ratio Lower Upper

65 100

92 29.2 54.9 82.3#

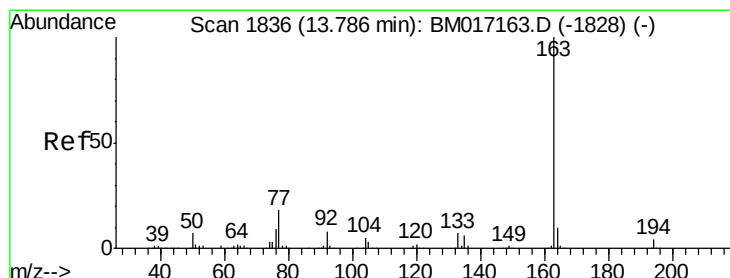
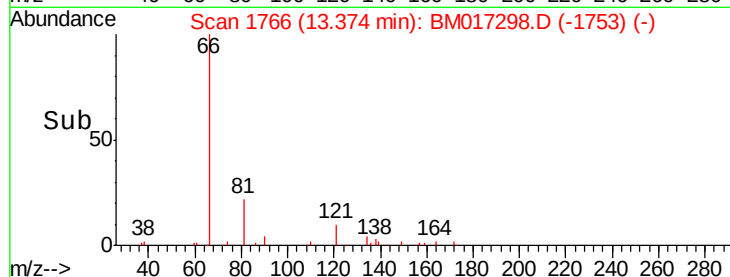
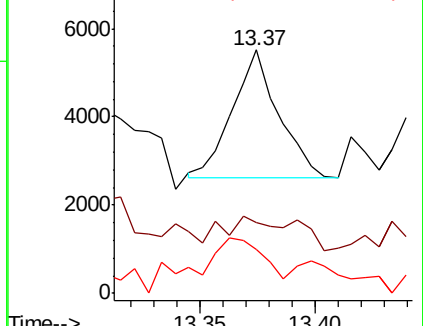
138 18.3 83.7 125.5#



Abundance Ion 65.00 (64.70 to 65.70): BM017163.D (-1763) (-)

Ion 92.00 (91.70 to 92.70): BM017163.D (-1763) (-)

Ion 138.00 (137.70 to 138.70): BM017163.D (-1763) (-)



#50

Dimethylphthalate

Concen: 5.632 ng

RT: 13.76 min Scan# 1832

Delta R.T. -0.02 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

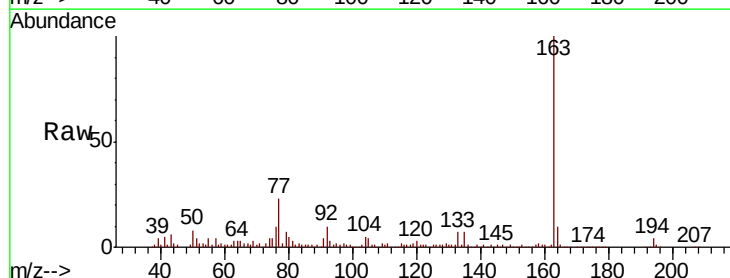
Tgt Ion: 163 Resp: 251660

Ion Ratio Lower Upper

163 100

194 4.2 3.3 4.9

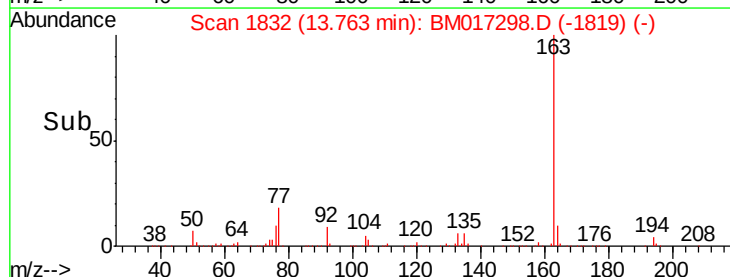
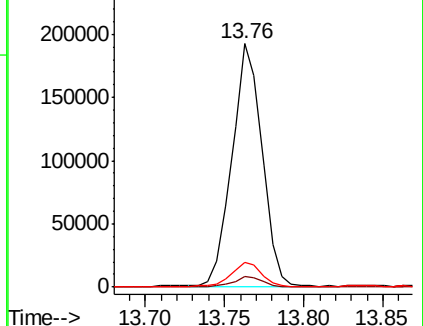
164 10.1 7.8 11.8

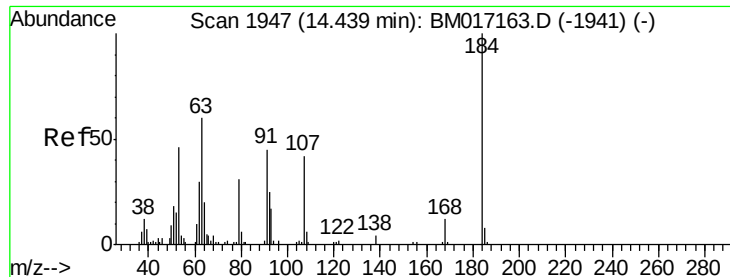


Abundance Ion 163.00 (162.70 to 163.70): BM017163.D (-1828) (-)

Ion 194.00 (193.70 to 194.70): BM017163.D (-1828) (-)

Ion 164.00 (163.70 to 164.70): BM017163.D (-1828) (-)

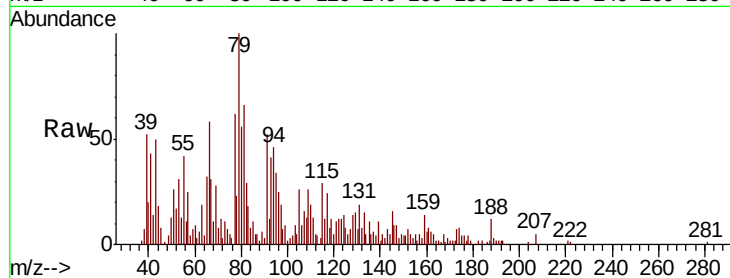




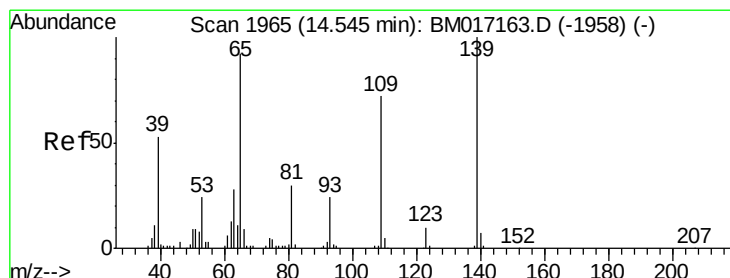
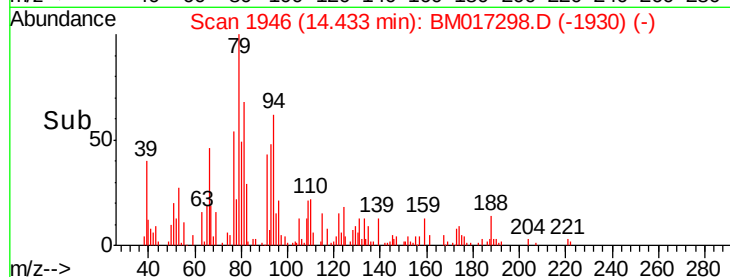
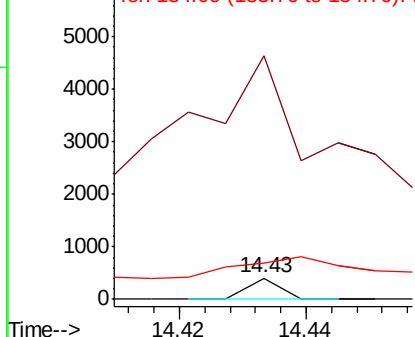
#54  
2,4-Dinitrophenol  
Concen: 8.249 ng  
RT: 14.43 min Scan# 1946  
Delta R.T. -0.01 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:184 Resp: 145  
Ion Ratio Lower Upper  
184 100  
63 1131.2 51.2 76.8#  
154 167.8 47.8 71.8#

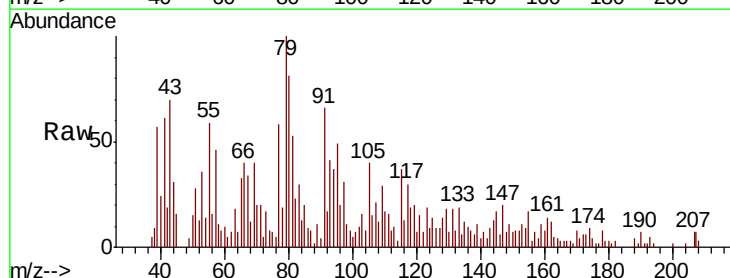


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BM0  
Ion 154.00 (153.70 to 154.70): E

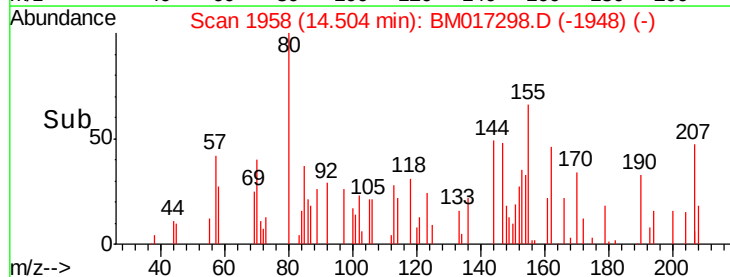
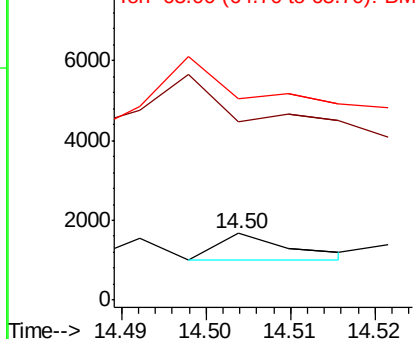


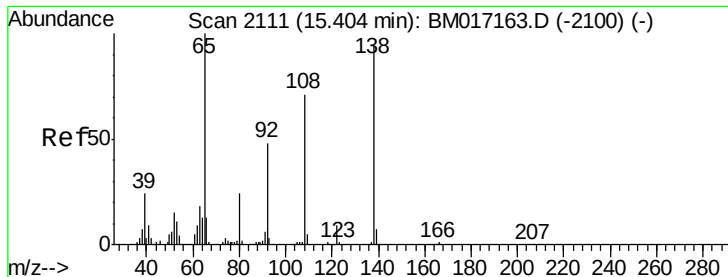
#56  
4-Nitrophenol  
Concen: 4.755 ng  
RT: 14.50 min Scan# 1958  
Delta R.T. -0.04 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Tgt Ion:139 Resp: 395  
Ion Ratio Lower Upper  
139 100  
109 267.7 51.8 91.8#  
65 302.2 72.1 112.1#



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BM0





#62

4-Nitroaniline

Concen: 4.805 ng

RT: 15.37 min Scan# 2105

Delta R.T. -0.03 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

Instrument :

BNA\_M

ClientSampled :

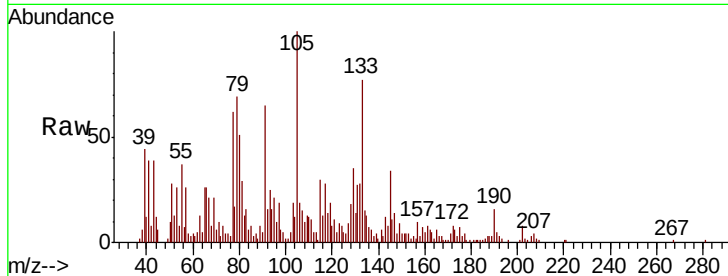
Tot Ion:138 Resp: 658

Ion Ratio Lower Upper

138 100

92 476.9 31.2 71.2#

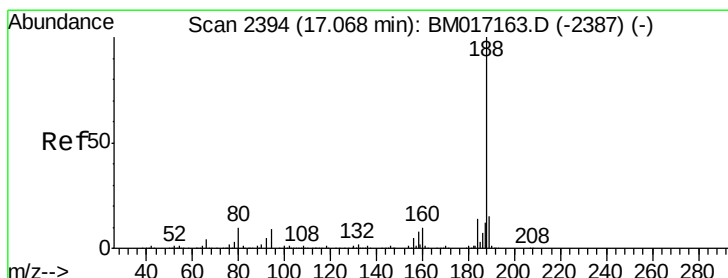
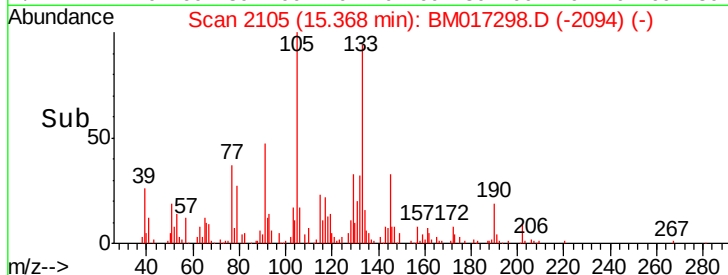
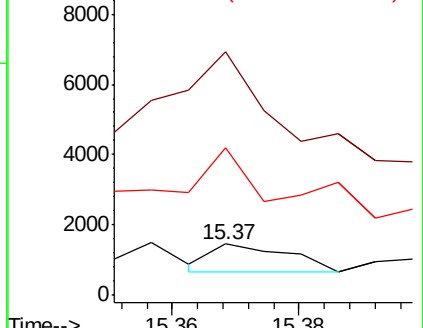
108 289.5 55.5 95.5#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM0

Ion 108.00 (107.70 to 108.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.05 min Scan# 2391

Delta R.T. -0.02 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

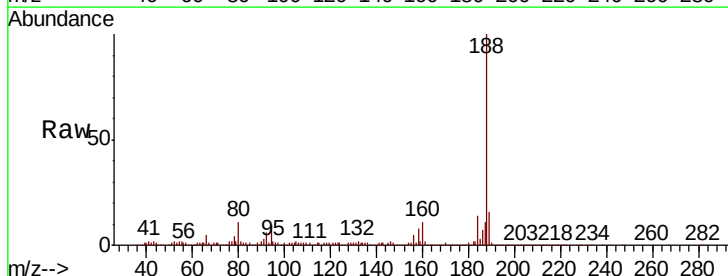
Tgt Ion:188 Resp: 1188909

Ion Ratio Lower Upper

188 100

94 9.6 7.0 10.4

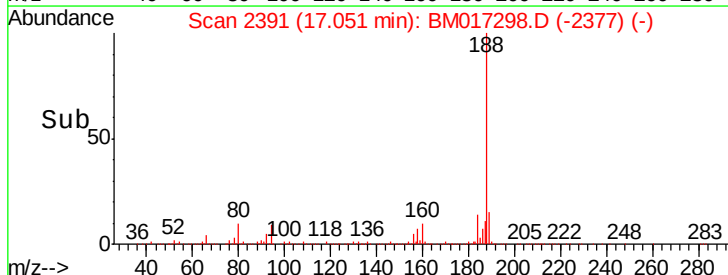
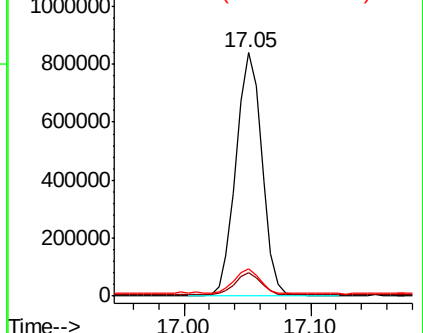
80 11.2 7.7 11.5

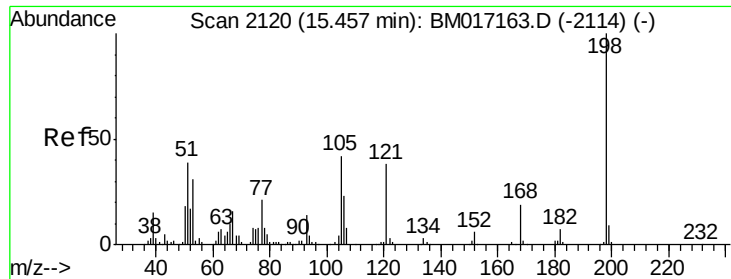


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

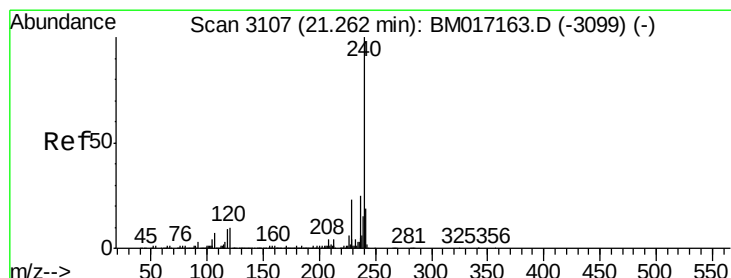
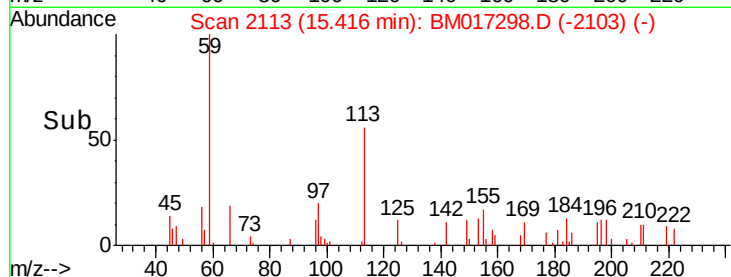
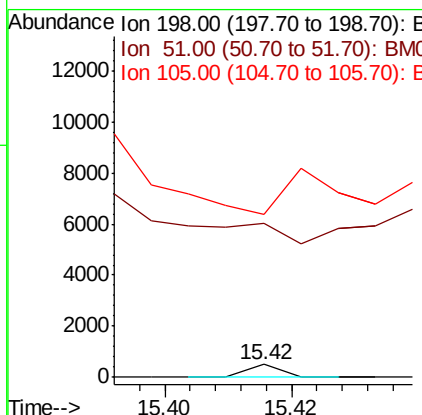
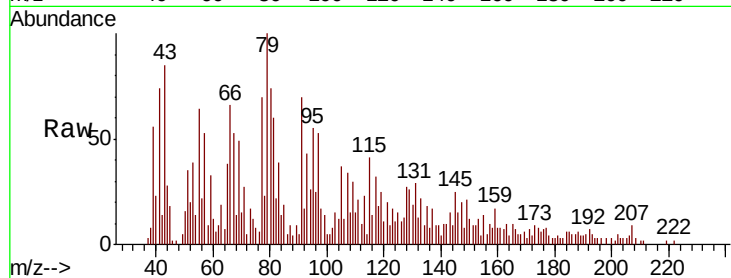




#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.023 ng  
RT: 15.42 min Scan# 2113  
Delta R.T. -0.04 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

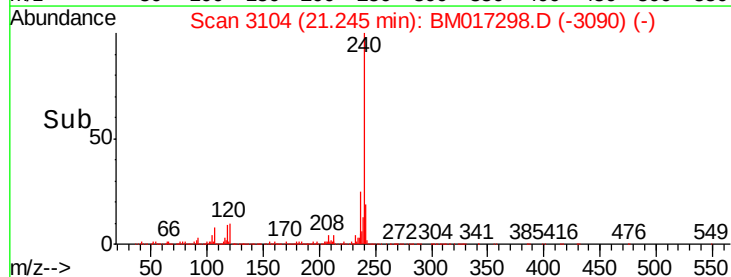
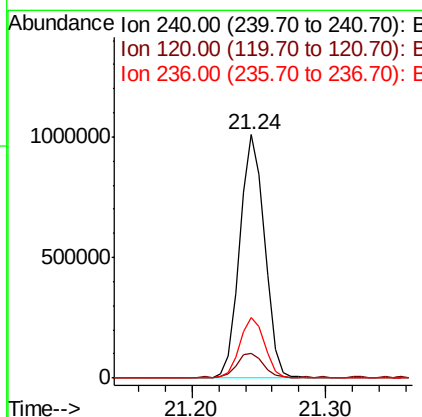
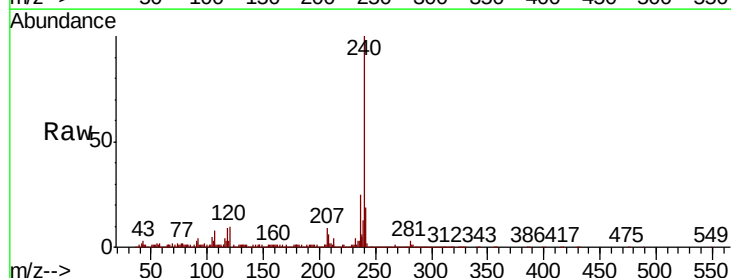
Instrument :  
BNA\_M  
ClientSampleId :

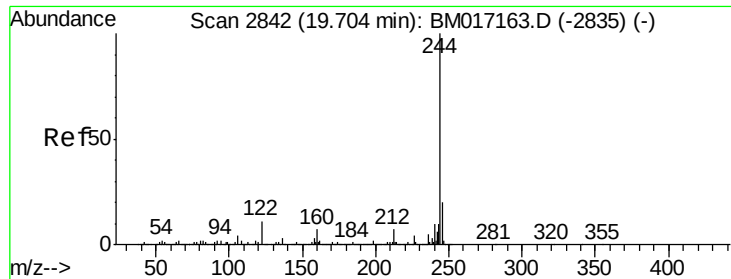
Tot Ion:198 Resp: 181  
Ion Ratio Lower Upper  
198 100  
51 1176.7 20.3 60.3#  
105 1239.5 21.9 61.9#



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.24 min Scan# 3104  
Delta R.T. -0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Tgt Ion:240 Resp: 1295460  
Ion Ratio Lower Upper  
240 100  
120 10.4 8.1 12.1  
236 24.9 19.9 29.9





#79

Terphenyl-d14

Concen: 71.918 ng

RT: 19.69 min Scan# 2840

Delta R.T. -0.01 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

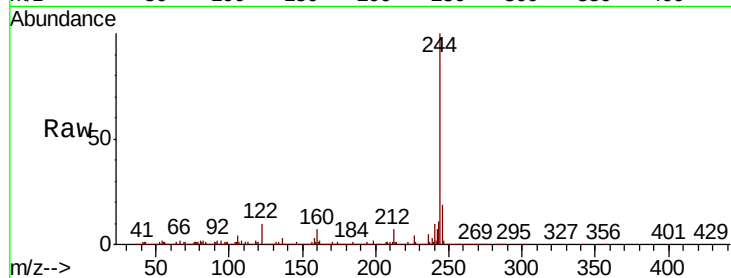
Instrument :

BNA\_M

ClientSampled :

Tot Ion:244 Resp: 4133407

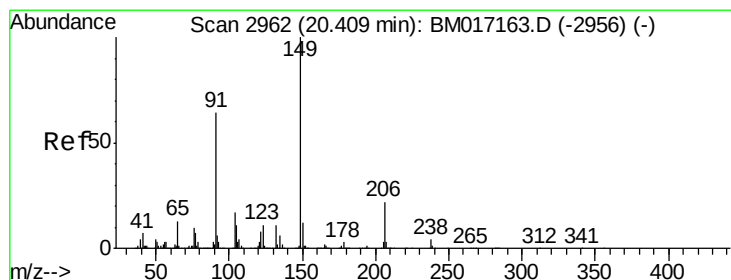
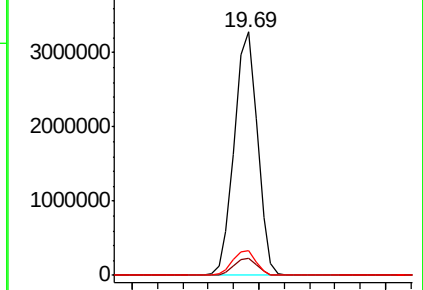
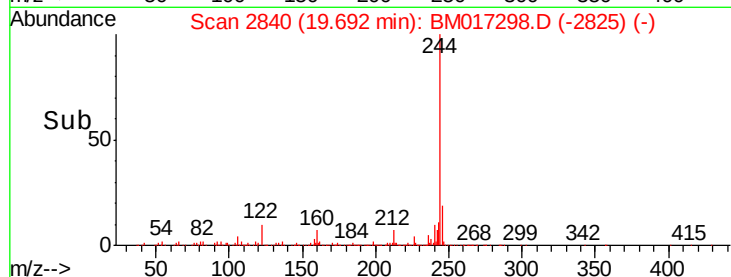
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.0   | 5.5   | 8.3   |
| 122 | 10.0  | 8.4   | 12.6  |



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



#80

Butylbenzylphthalate

Concen: 7.239 ng

RT: 20.39 min Scan# 2959

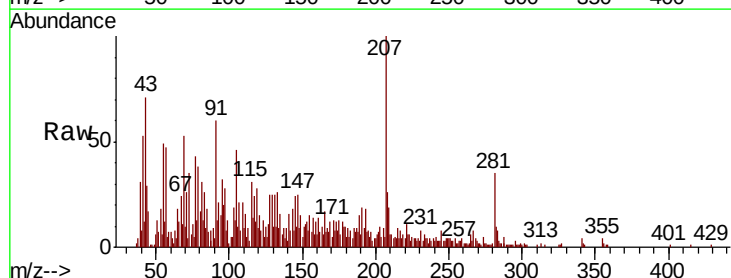
Delta R.T. -0.02 min

Lab File: BM017298.D

Acq: 23 Oct 2018 23:18

Tgt Ion:149 Resp: 2041

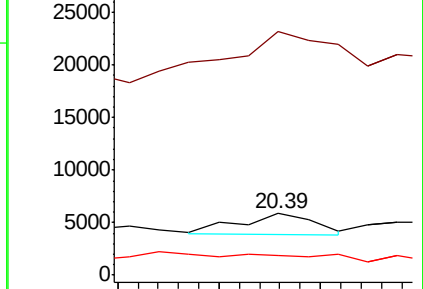
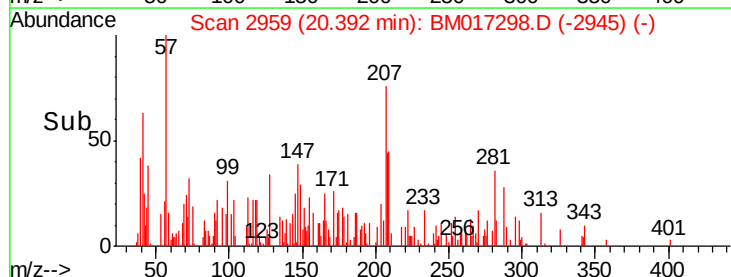
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 91  | 395.0 | 51.3  | 76.9# |
| 206 | 32.5  | 18.0  | 27.0# |

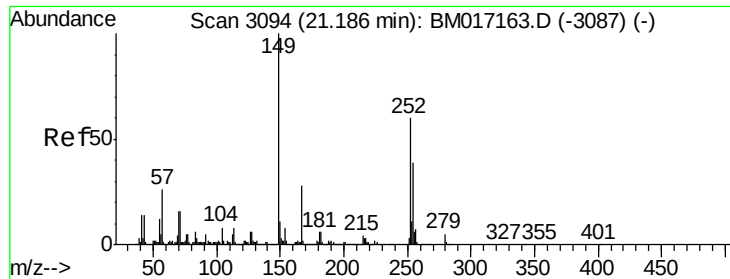


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E

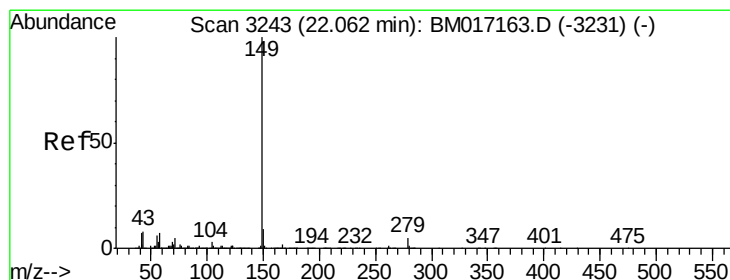
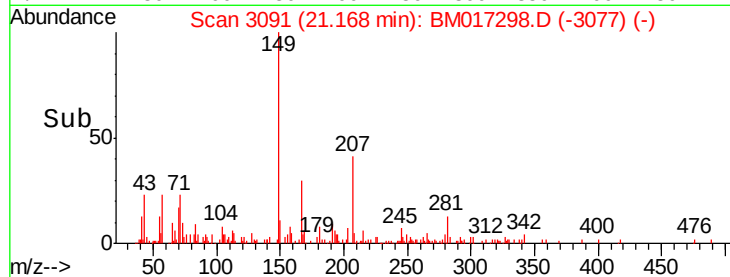
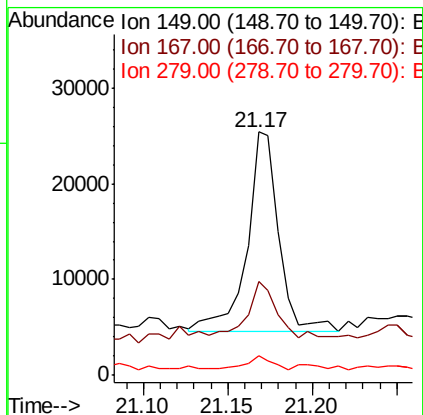
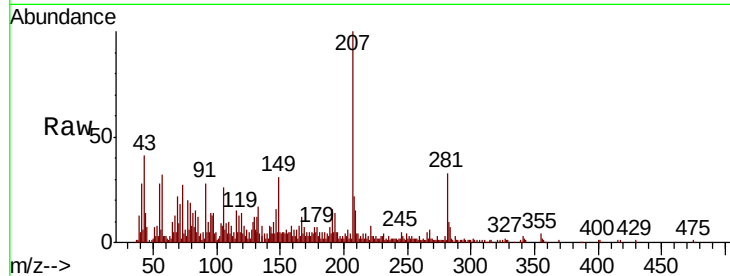




#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.878 ng  
 RT: 21.17 min Scan# 3091  
 Delta R.T. -0.02 min  
 Lab File: BM017298.D  
 Acq: 23 Oct 2018 23:18

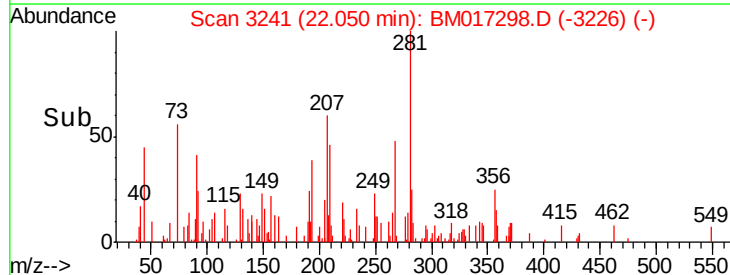
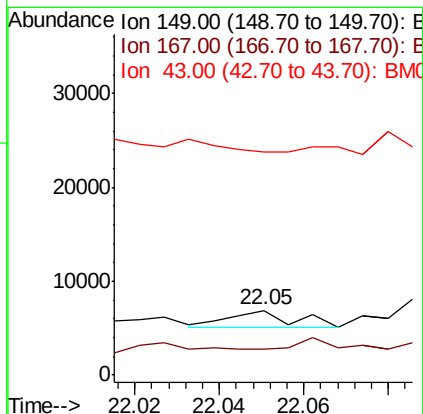
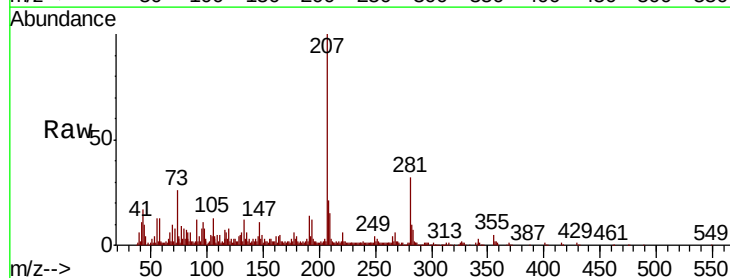
Instrument :  
 BNA\_M  
 ClientSampleId :

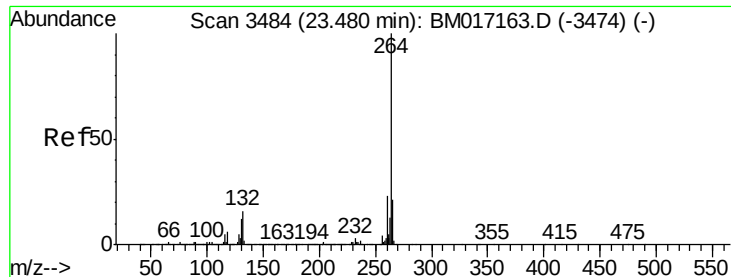
Tot Ion:149 Resp: 27004  
 Ion Ratio Lower Upper  
 149 100  
 167 38.7 22.2 33.4#  
 279 8.2 3.6 5.4#



#85  
 Di-n-octyl phthalate  
 Concen: 5.595 ng  
 RT: 22.05 min Scan# 3241  
 Delta R.T. -0.01 min  
 Lab File: BM017298.D  
 Acq: 23 Oct 2018 23:18

Tgt Ion:149 Resp: 1868  
 Ion Ratio Lower Upper  
 149 100  
 167 37.6 1.4 2.0#  
 43 0.0 7.2 10.8#



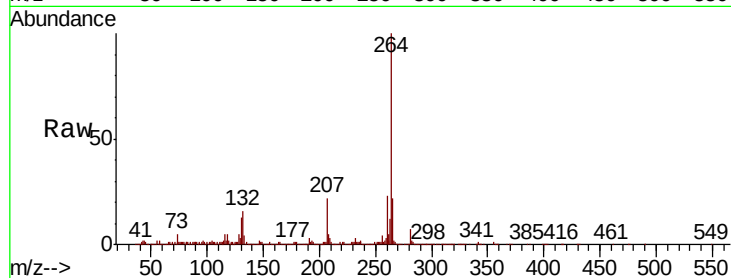


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.46 min Scan# 3480  
Delta R.T. -0.02 min  
Lab File: BM017298.D  
Acq: 23 Oct 2018 23:18

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:264 Resp: 1405025  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 18.6  | 27.8  |
| 265 | 22.1  | 17.8  | 26.8  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

