

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM072418\  
 Data File : BM016061.D  
 Acq On : 24 Jul 2018 18:29  
 Operator : SJ/JU  
 Sample : J4086-01DL 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 1524

Quant Time: Jul 25 05:34:43 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM072318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 23 16:08:38 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 42030    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.05 | 136  | 172998   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.85 | 164  | 90578    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.58 | 188  | 193580   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.70 | 240  | 210258   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 24.07 | 264  | 218406   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |      |
|--------------------------|-------|-----|--------|-------|----|------|
| 5) 2-Fluorophenol        | 5.75  | 112 | 26388  | 10.43 | ng | 0.00 |
| 7) Phenol-d6             | 7.39  | 99  | 38419  | 11.63 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.42  | 82  | 26254  | 7.06  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.34 | 330 | 13966  | 12.16 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.47 | 172 | 65329  | 8.78  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.15 | 244 | 109159 | 10.87 | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 8) 2-Chlorophenol              | 7.79  | 128 | 65606  | 21.817 | ng | 96     |
| 10) Phenol                     | 7.41  | 94  | 60097  | 18.189 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 8.27  | 146 | 18955  | 5.310  | ng | # 92   |
| 14) 1,2-Dichlorobenzene        | 8.59  | 146 | 17793  | 5.094  | ng | # 93   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.74  | 45  | 47973  | 12.009 | ng | 94     |
| 17) 2-Methylphenol             | 8.67  | 107 | 59012  | 26.131 | ng | # 83   |
| 18) Hexachloroethane           | 9.30  | 117 | 16063  | 10.409 | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 9.03  | 70  | 35968  | 14.893 | ng | # 77   |
| 25) Isophorone                 | 9.97  | 82  | 121019 | 23.787 | ng | # 94   |
| 26) 2-Nitrophenol              | 10.18 | 139 | 6779   | 4.337  | ng | # 66   |
| 29) 2,4-Dichlorophenol         | 10.70 | 162 | 39584  | 15.299 | ng | 93     |
| 31) Naphthalene                | 11.10 | 128 | 48119  | 5.496  | ng | 97     |
| 34) Hexachlorobutadiene        | 11.35 | 225 | 20588  | 9.441  | ng | 97     |
| 42) 2,4,6-Trichlorophenol      | 13.30 | 196 | 37747  | 19.565 | ng | 98     |
| 43) 2,4,5-Trichlorophenol      | 13.38 | 196 | 24972  | 12.548 | ng | # 81   |
| 46) 2-Chloronaphthalene        | 13.74 | 162 | 147681 | 23.228 | ng | # 90   |
| 48) Acenaphthylene             | 14.58 | 152 | 206800 | 22.219 | ng | 99     |
| 49) Dimethylphthalate          | 14.30 | 163 | 39749  | 5.014  | ng | # 98   |
| 50) 2,6-Dinitrotoluene         | 14.44 | 165 | 32466  | 20.356 | ng | # 51   |
| 51) Acenaphthene               | 14.92 | 154 | 141899 | 24.789 | ng | 93     |
| 54) Dibenzofuran               | 15.25 | 168 | 260539 | 27.620 | ng | # 82   |
| 57) Fluorene                   | 15.89 | 166 | 207857 | 29.653 | ng | 97     |
| 59) Diethylphthalate           | 15.64 | 149 | 243055 | 28.447 | ng | 95     |
| 66) 4-Bromophenyl-phenylether  | 16.77 | 248 | 35110  | 16.017 | ng | # 73   |
| 69) Pentachlorophenol          | 17.23 | 266 | 14030  | 9.386  | ng | 96     |
| 70) Phenanthrene               | 17.62 | 178 | 245353 | 22.639 | ng | 98     |
| 71) Anthracene                 | 17.72 | 178 | 78171  | 7.421  | ng | 98     |
| 79) Butylbenzylphthalate       | 20.82 | 149 | 110320 | 17.235 | ng | # 80   |
| 80) Benzo(a)anthracene         | 21.68 | 228 | 233542 | 18.034 | ng | 100    |
| 82) Chrysene                   | 21.68 | 228 | 233538 | 18.800 | ng | 96     |
| 83) Bis(2-ethylhexyl)phthalate | 21.57 | 149 | 130630 | 14.082 | ng | 93     |
| 84) Di-n-octyl phthalate       | 22.48 | 149 | 149427 | 9.584  | ng | # 90   |
| 85) Indeno(1,2,3-cd)pyrene     | 26.50 | 276 | 98271  | 6.666  | ng | # 92   |
| 87) Benzo(b)fluoranthene       | 23.35 | 252 | 177832 | 13.829 | ng | # 96   |

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 23 16:08:38 2018  
Response via : Initial Calibration

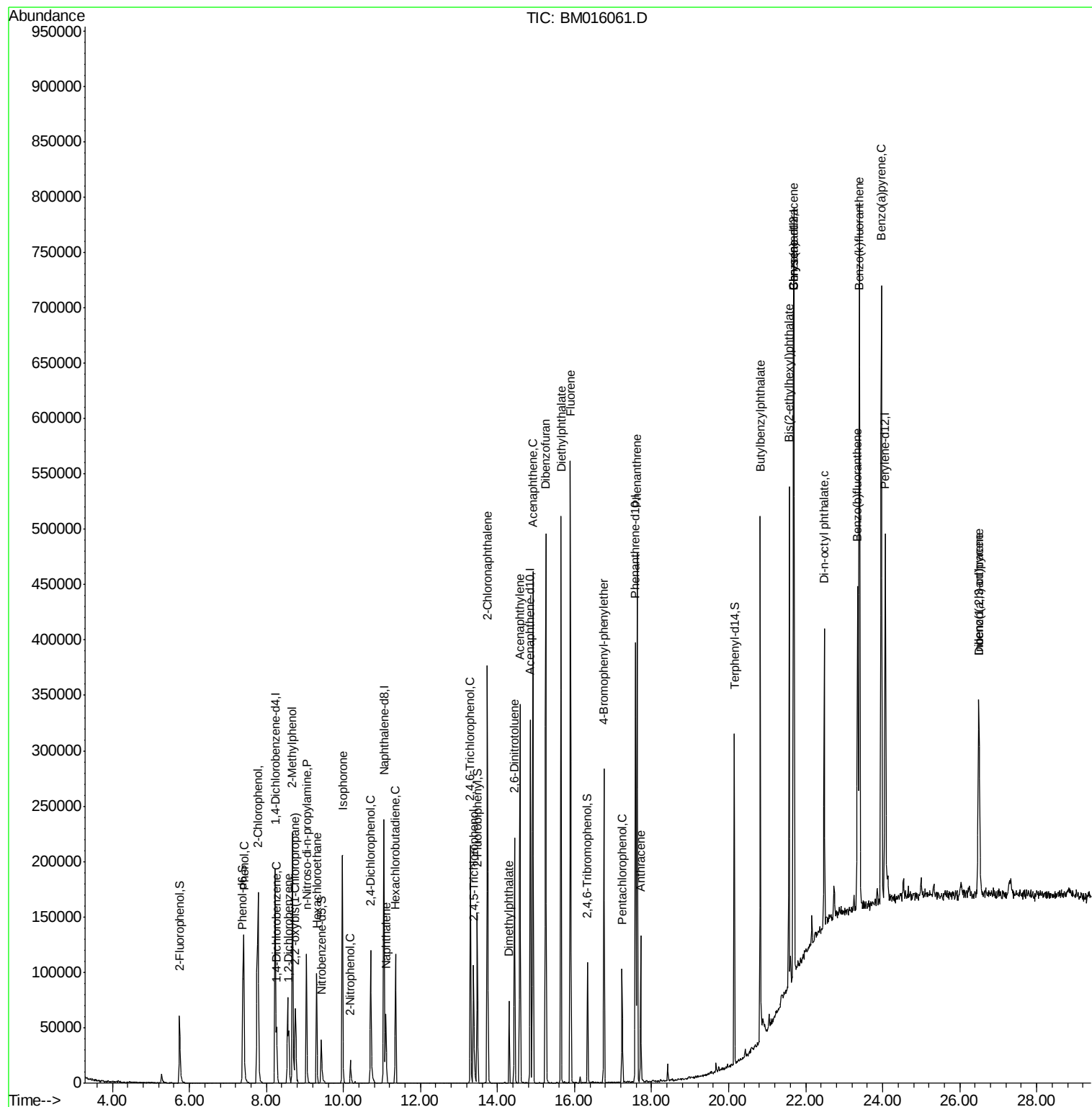
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 88) Benzo(k)fluoranthene   | 23.40 | 252  | 398111   | 30.548 | ng    | 98       |
| 89) Benzo(a)pyrene         | 23.97 | 252  | 387669   | 31.360 | ng    | 100      |
| 90) Dibenzo(a,h)anthracene | 26.50 | 278  | 107907   | 8.425  | ng    | 95       |

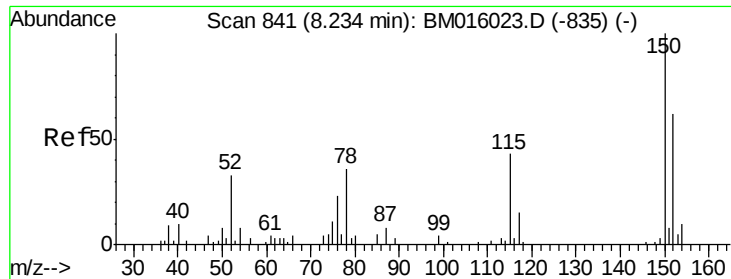
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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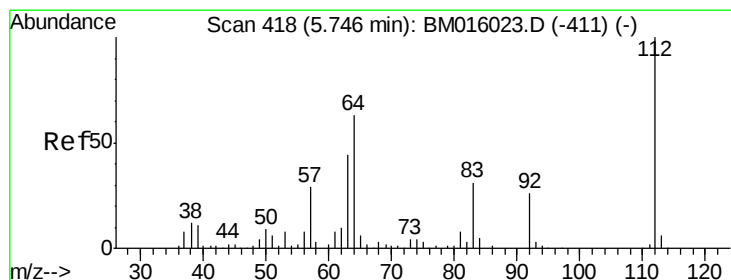
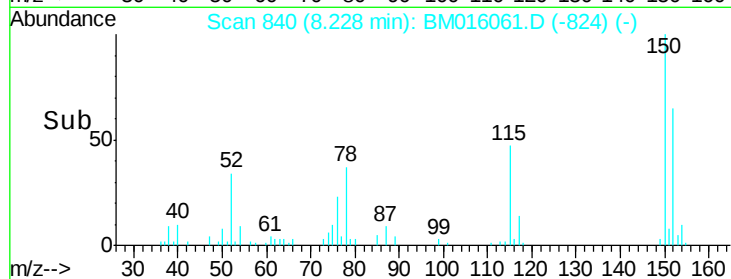
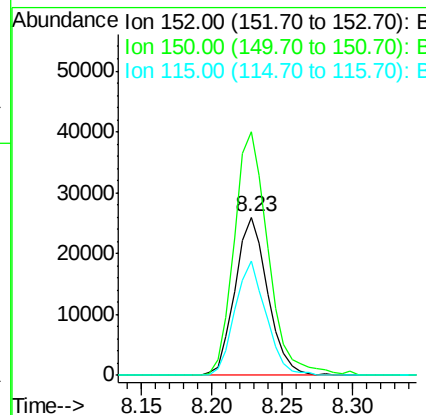
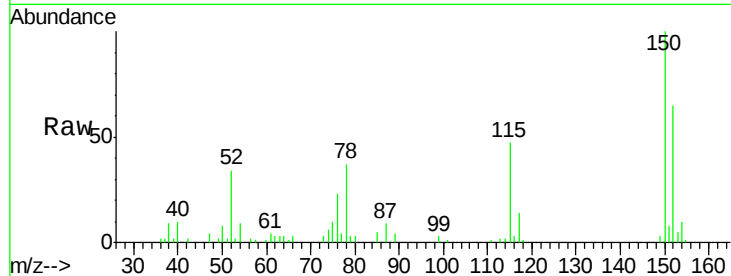


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.23 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

Instrument :  
BNA\_M  
ClientSampled :  
1524

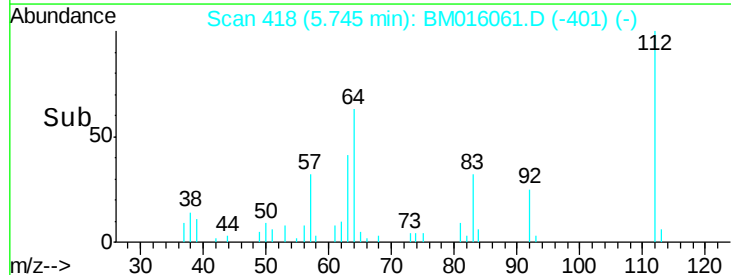
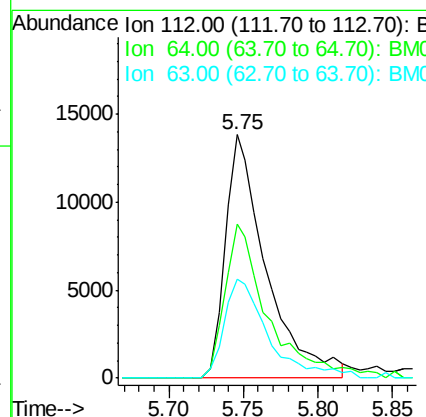
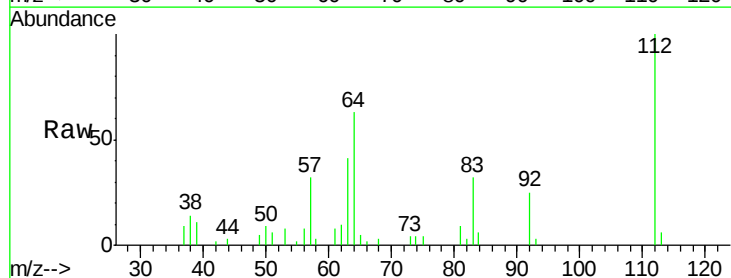
Tgt Ion:152 Resp: 42030  
Ion Ratio Lower Upper  
152 100  
150 153.8 119.5 179.3  
115 71.9 43.0 64.4#

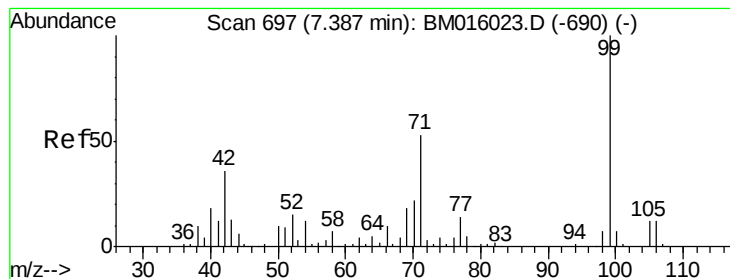


#5

2-Fluorophenol  
Concen: N.D. ng  
RT: 5.75 min Scan# 418  
Delta R.T. 0.00 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

Tgt Ion:112 Resp: 26388  
Ion Ratio Lower Upper  
112 100  
64 63.4 38.6 57.8#  
63 40.6 19.3 28.9#





#7

Phenol-d6

Concen: N.D. ng

RT: 7.39 min Scan# 697

Delta R.T. -0.00 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

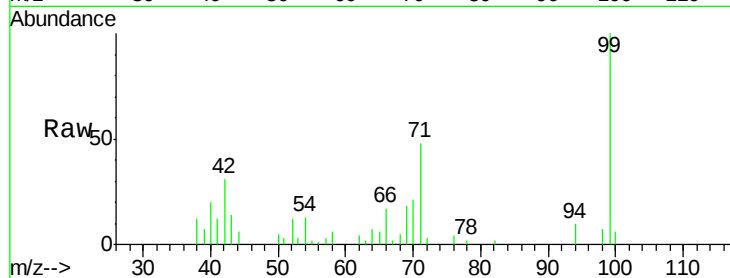
Tgt Ion: 99 Resp: 38419

Ion Ratio Lower Upper

99 100

42 31.0 11.0 16.4#

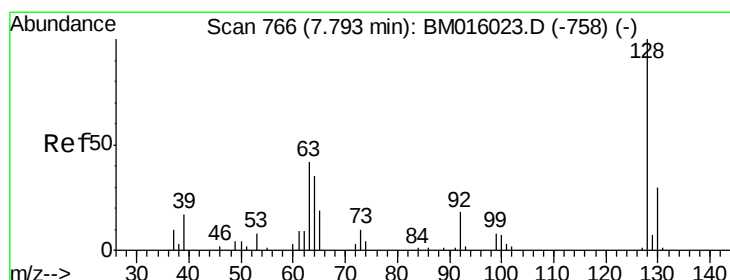
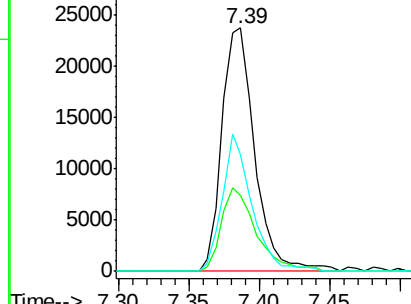
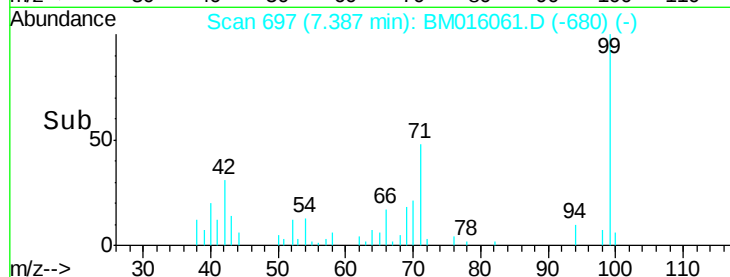
71 47.8 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM016061.D (-680) (-)

Ion 42.00 (41.70 to 42.70): BM016061.D (-680) (-)

Ion 71.00 (70.70 to 71.70): BM016061.D (-680) (-)



#8

2-Chlorophenol

Concen: 21.817 ng

RT: 7.79 min Scan# 765

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

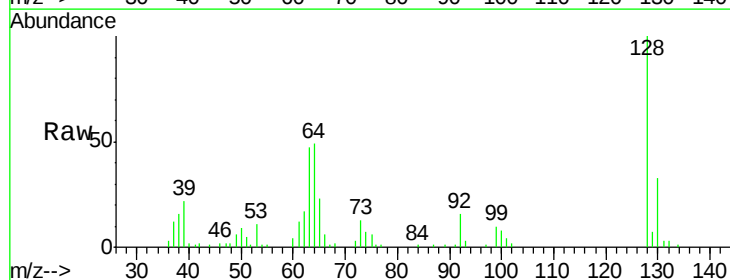
Tgt Ion: 128 Resp: 65606

Ion Ratio Lower Upper

128 100

130 32.6 12.0 52.0

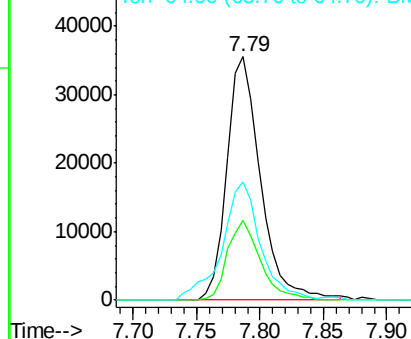
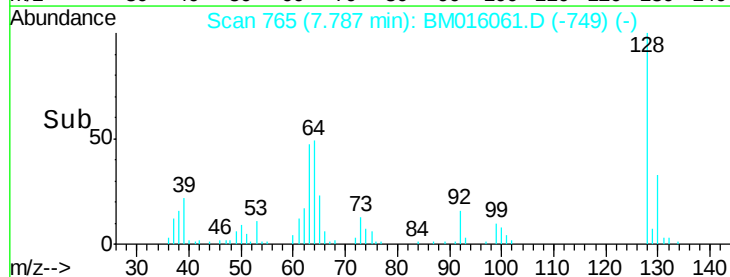
64 48.8 24.9 64.9

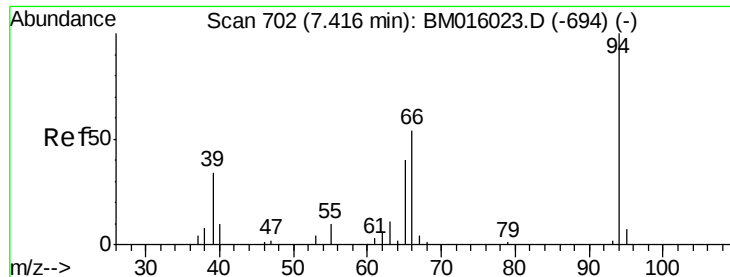


Abundance Ion 128.00 (127.70 to 128.70): BM016061.D (-749) (-)

Ion 130.00 (129.70 to 130.70): BM016061.D (-749) (-)

Ion 64.00 (63.70 to 64.70): BM016061.D (-749) (-)





#10

Phenol

Concen: 18.189 ng

RT: 7.41 min Scan# 701

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

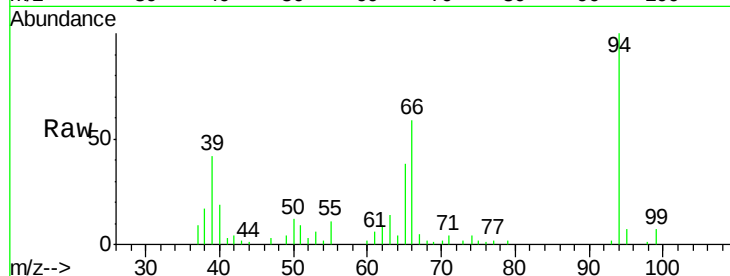
Tgt Ion: 94 Resp: 60097

Ion Ratio Lower Upper

94 100

65 38.3 18.8 58.8

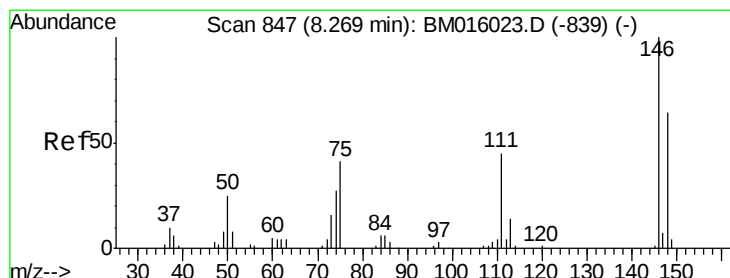
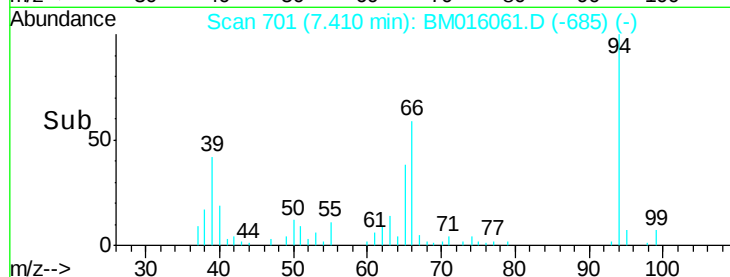
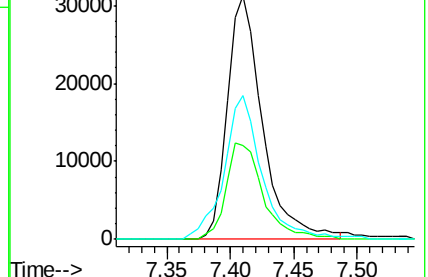
66 58.8 39.9 79.9



Abundance Ion 94.00 (93.70 to 94.70): BM016023.D (-694) (-)

Ion 65.00 (64.70 to 65.70): BM016023.D (-694) (-)

Ion 66.00 (65.70 to 66.70): BM016023.D (-694) (-)



#13

1,4-Dichlorobenzene

Concen: 5.310 ng

RT: 8.27 min Scan# 847

Delta R.T. -0.00 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

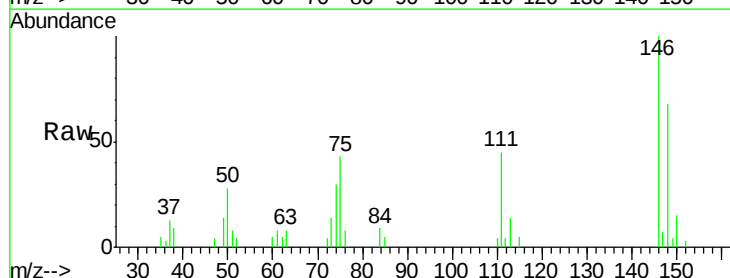
Tgt Ion: 146 Resp: 18955

Ion Ratio Lower Upper

146 100

148 67.8 51.9 77.9

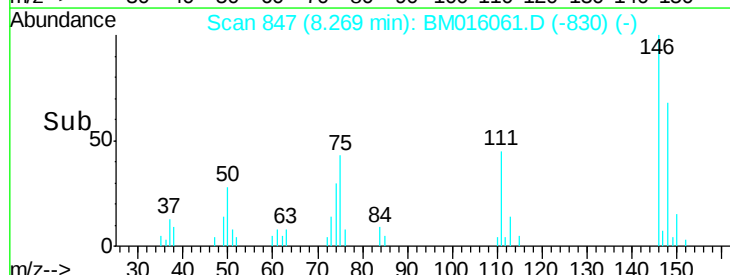
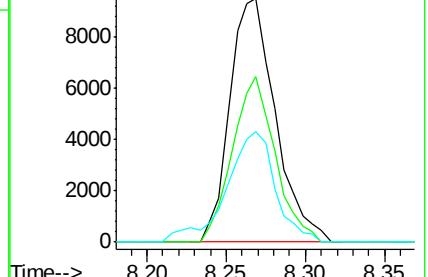
111 45.5 29.2 43.8#

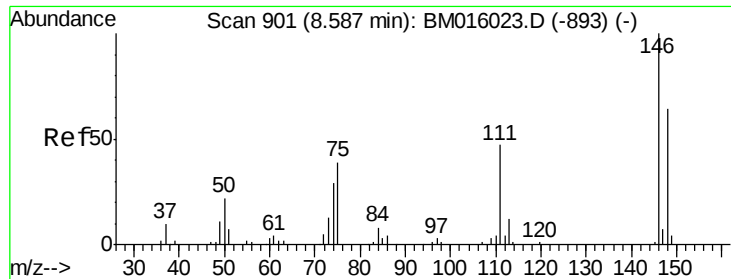


Abundance Ion 146.00 (145.70 to 146.70): BM016023.D (-839) (-)

Ion 148.00 (147.70 to 148.70): BM016023.D (-839) (-)

Ion 111.00 (110.70 to 111.70): BM016023.D (-839) (-)

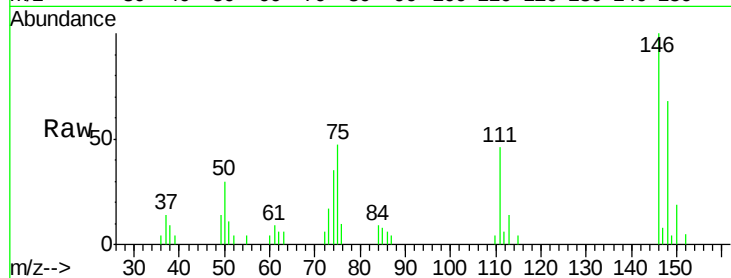




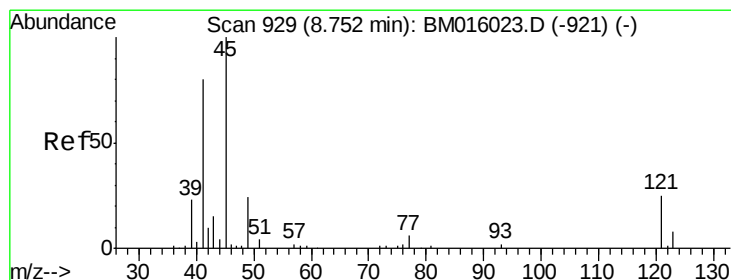
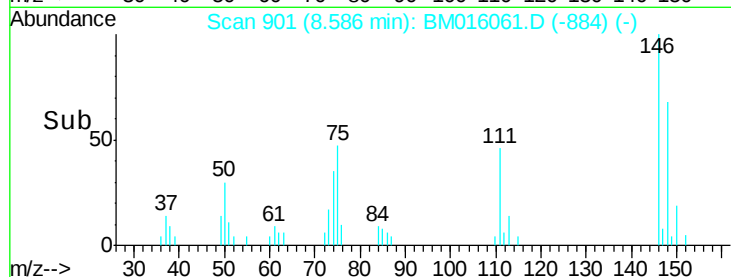
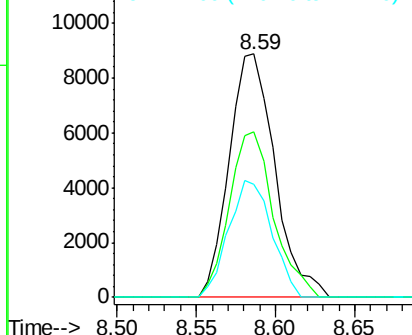
#14  
 1,2-Dichlorobenzene  
 Concen: 5.094 ng  
 RT: 8.59 min Scan# 901  
 Delta R.T. -0.00 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

Instrument :  
 BNA\_M  
 ClientSampleId :  
 1524

Tgt Ion: 146 Resp: 17793  
 Ion Ratio Lower Upper  
 146 100  
 148 68.2 52.3 78.5  
 111 46.3 30.6 45.8#

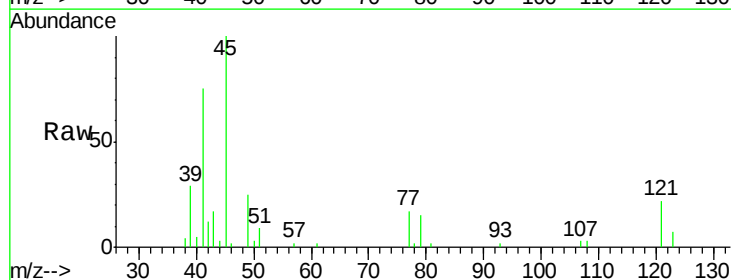


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

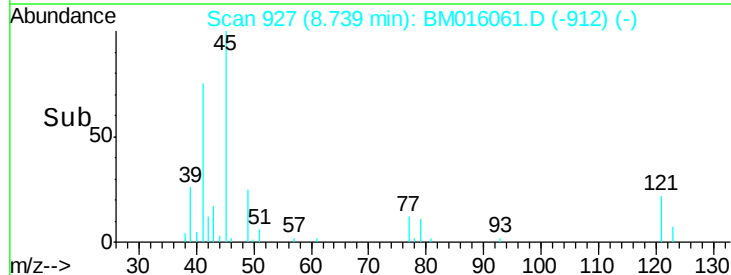
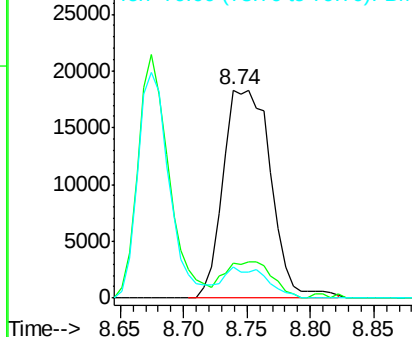


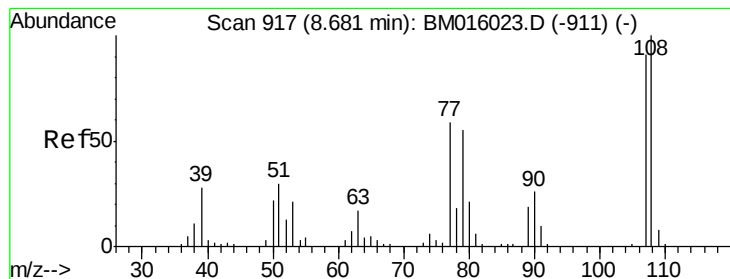
#16  
 2,2'-oxybis(1-Chloropropane)  
 Concen: 12.009 ng  
 RT: 8.74 min Scan# 927  
 Delta R.T. -0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

Tgt Ion: 45 Resp: 47973  
 Ion Ratio Lower Upper  
 45 100  
 77 17.0 0.0 35.2  
 79 14.9 0.0 32.0



Abundance Ion 45.00 (44.70 to 45.70): BM0  
 Ion 77.00 (76.70 to 77.70): BM0  
 Ion 79.00 (78.70 to 79.70): BM0





#17

2-Methylphenol

Concen: 26.131 ng

RT: 8.67 min Scan# 916

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampled :

1524

Tgt Ion:107 Resp: 59012

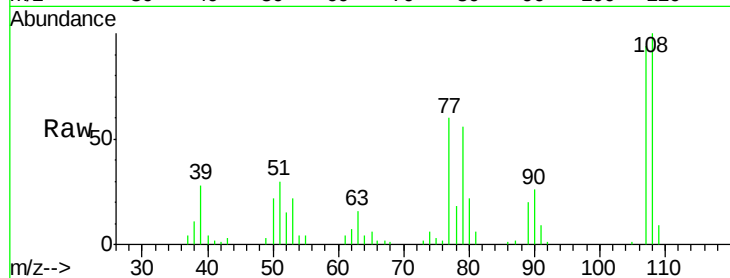
Ion Ratio Lower Upper

107 100

108 106.0 89.8 134.8

77 63.7 32.6 48.8#

79 59.1 32.8 49.2#



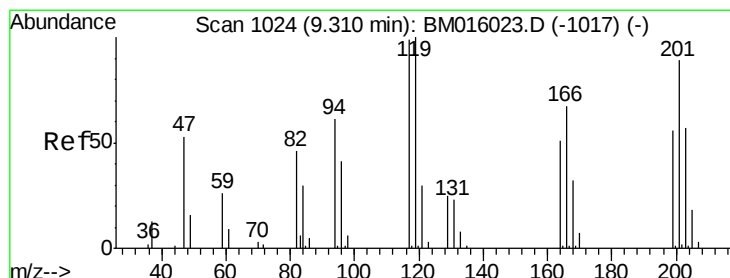
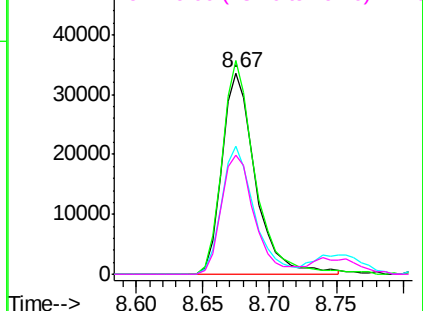
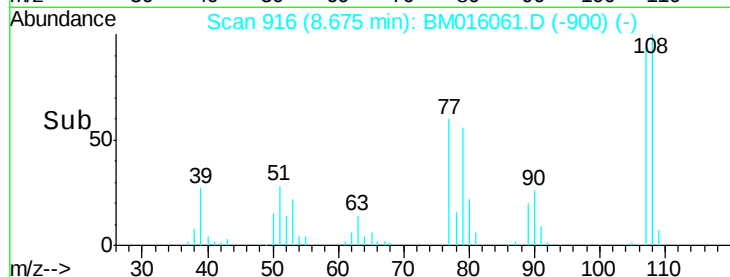
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BM

Ion 79.00 (78.70 to 79.70): BM



#18

Hexachloroethane

Concen: 10.409 ng

RT: 9.30 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

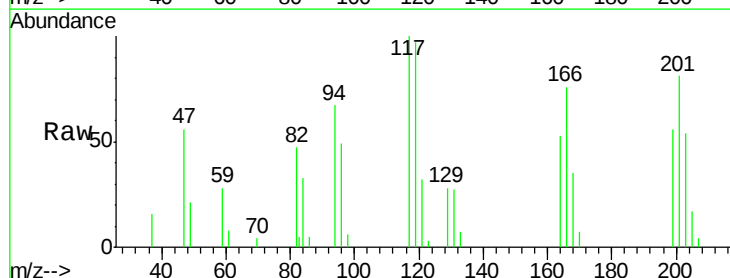
Tgt Ion:117 Resp: 16063

Ion Ratio Lower Upper

117 100

119 97.2 79.2 118.8

201 81.1 69.8 104.6

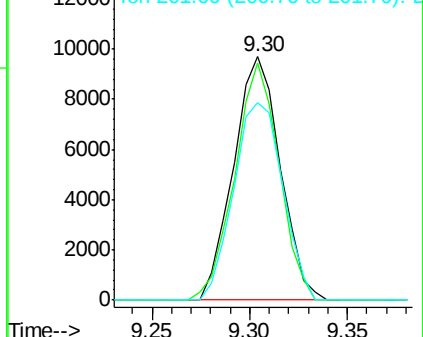
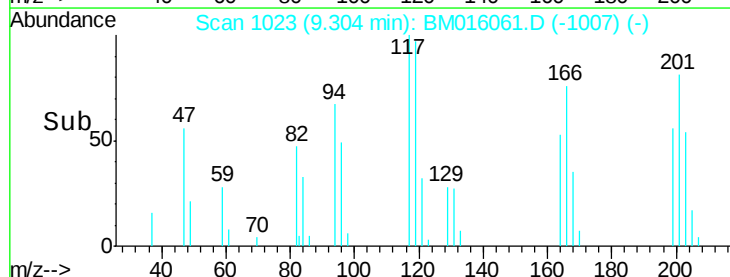


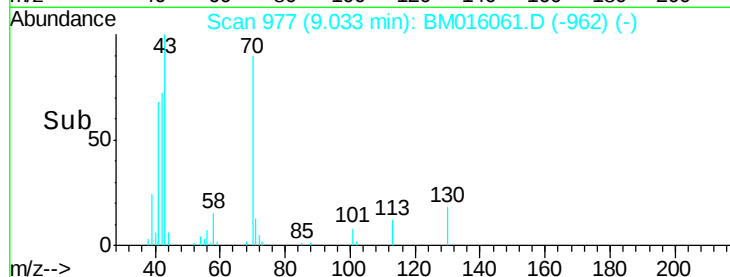
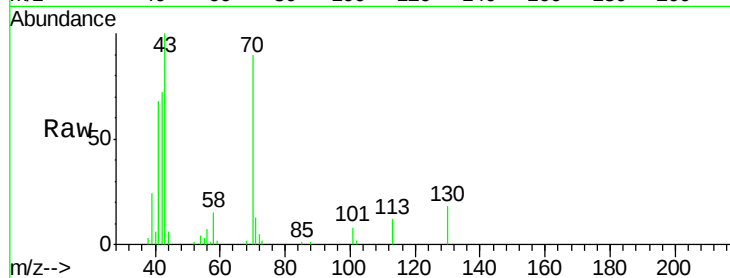
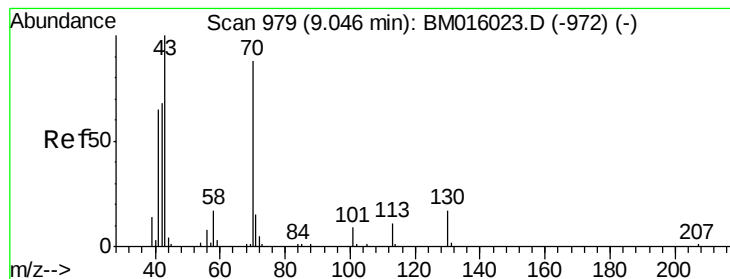
Abundance

Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 14.893 ng

RT: 9.03 min Scan# 977

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

Tgt Ion: 70 Resp: 35968

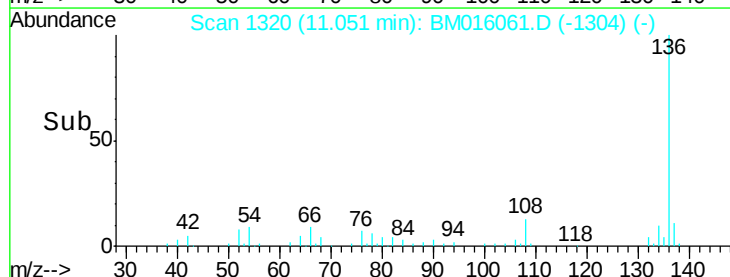
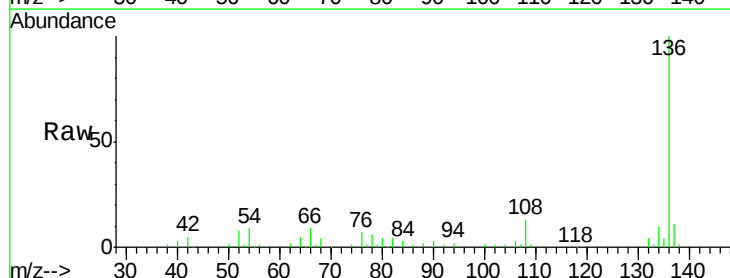
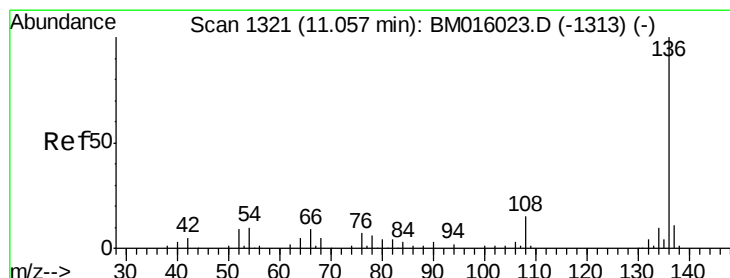
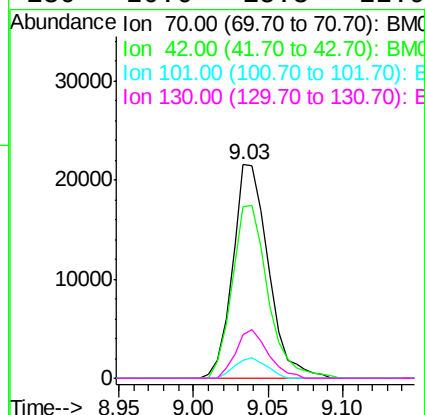
Ion Ratio Lower Upper

70 100

42 80.1 44.5 66.7#

101 8.5 7.4 11.2

130 20.6 15.3 22.9



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.05 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Tgt Ion: 136 Resp: 172998

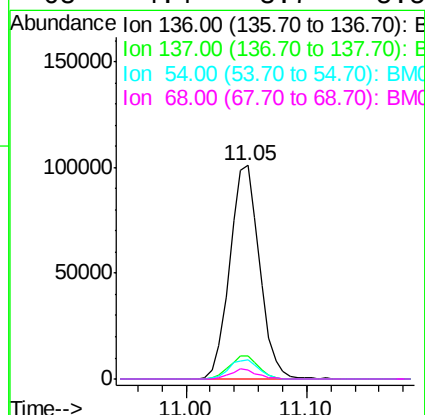
Ion Ratio Lower Upper

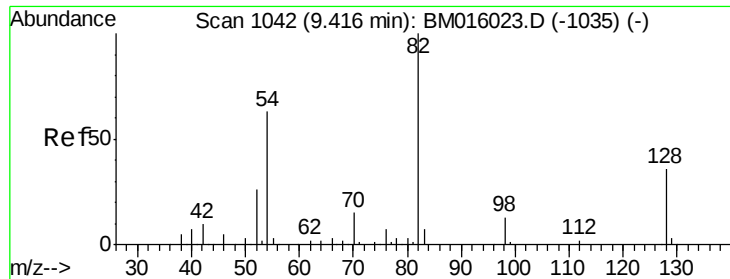
136 100

137 11.0 8.7 13.1

54 8.8 4.6 6.8#

68 4.4 3.7 5.5

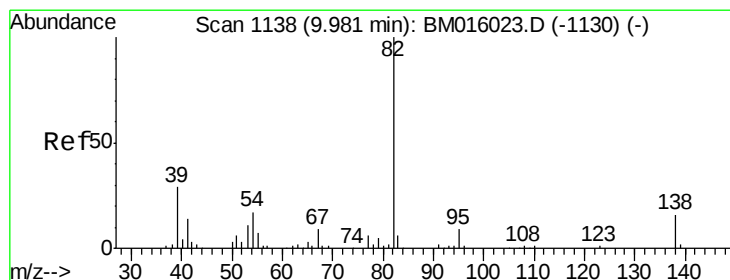
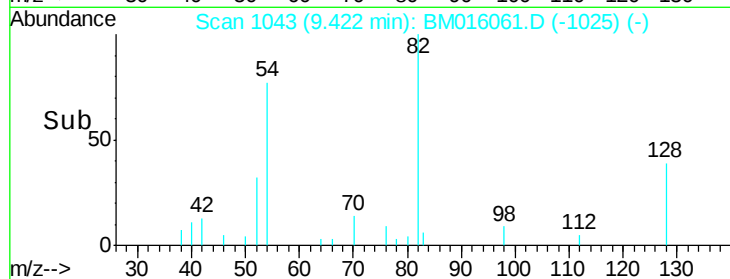
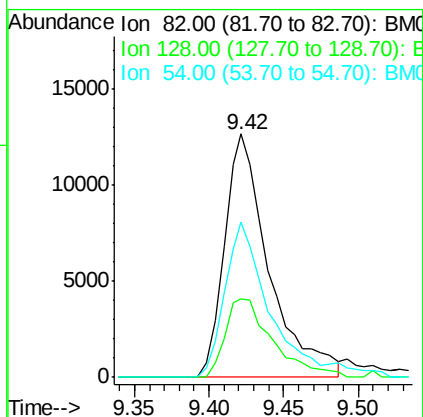
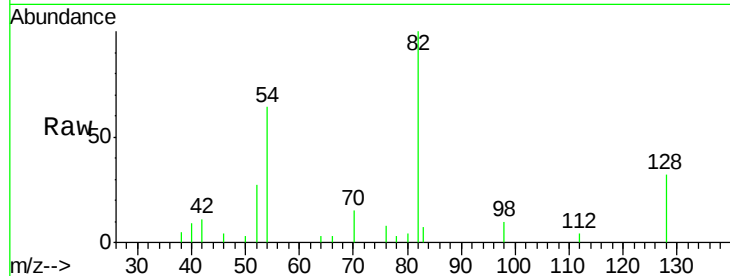




#23  
Nitrobenzene-d5  
Concen: N.D. ng  
RT: 9.42 min Scan# 1043  
Delta R.T. 0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

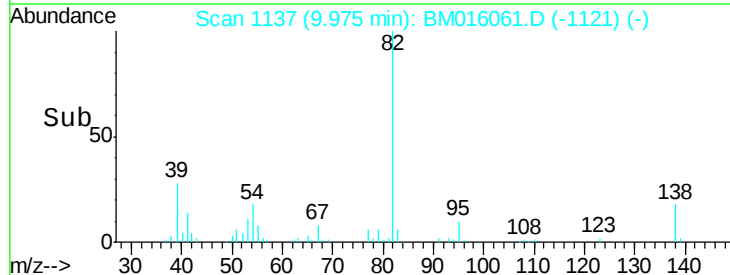
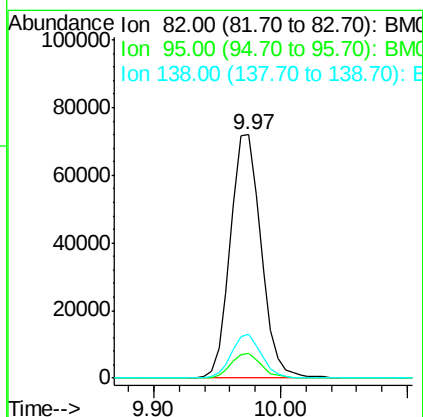
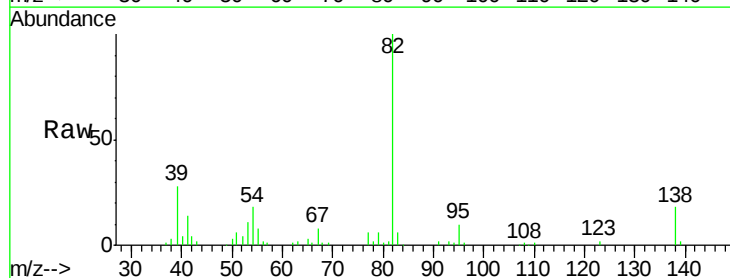
Instrument :  
BNA\_M  
ClientSampleId :  
1524

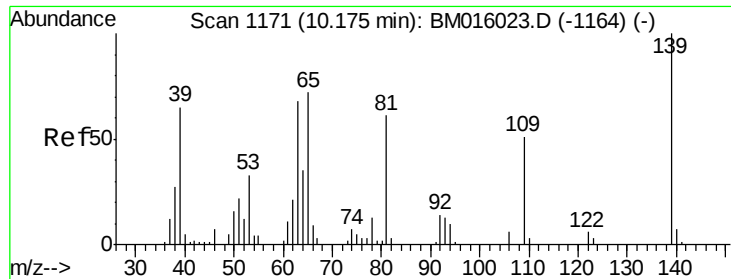
Tgt Ion: 82 Resp: 26254  
Ion Ratio Lower Upper  
82 100  
128 32.0 32.8 49.2#  
54 63.9 40.6 60.8#



#25  
Isophorone  
Concen: 23.787 ng  
RT: 9.97 min Scan# 1137  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

Tgt Ion: 82 Resp: 121019  
Ion Ratio Lower Upper  
82 100  
95 9.9 5.8 8.6#  
138 18.2 16.3 24.5

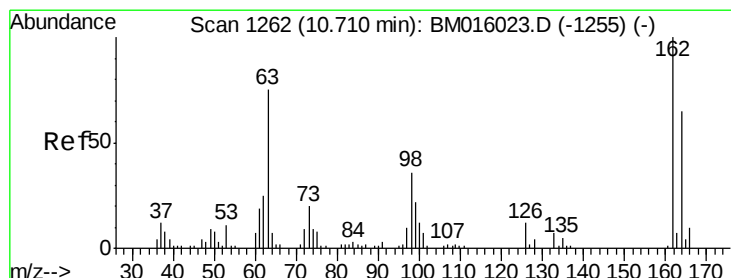
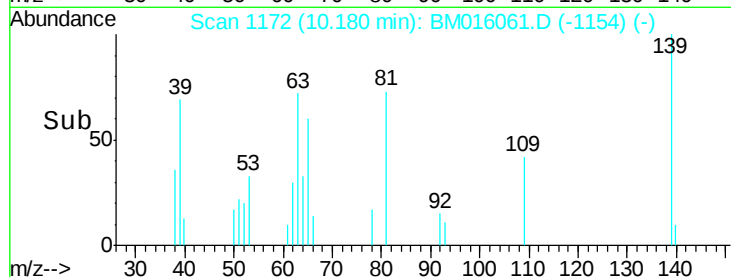
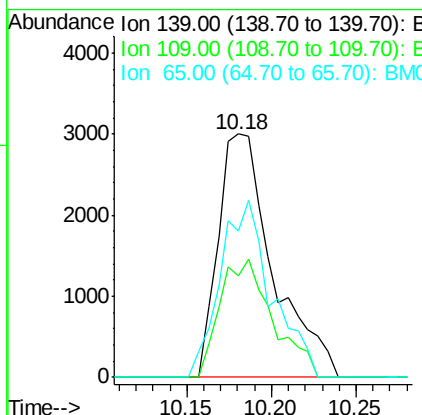
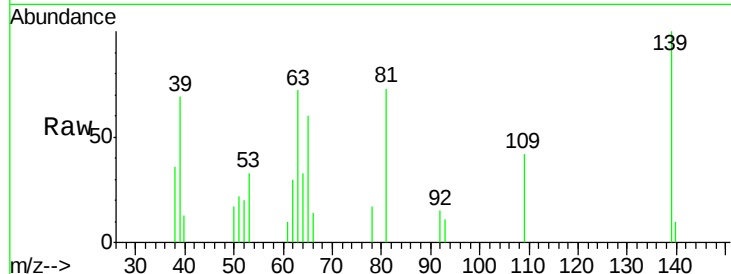




#26  
 2-Nitrophenol  
 Concen: 4.337 ng  
 RT: 10.18 min Scan# 1172  
 Delta R.T. 0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

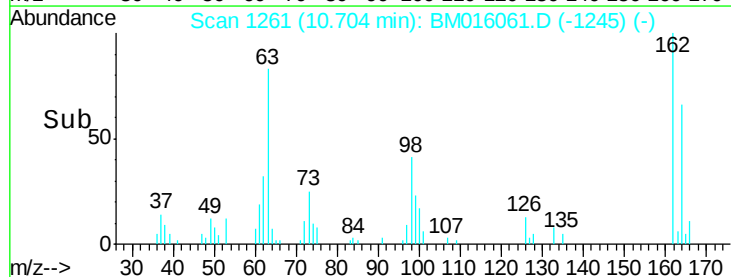
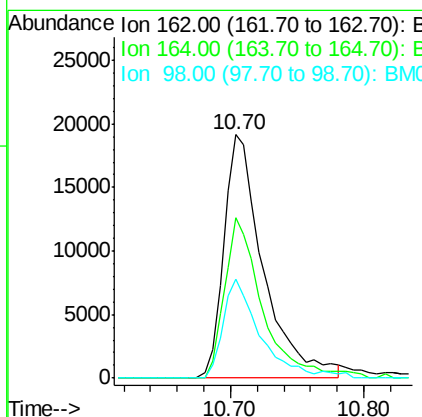
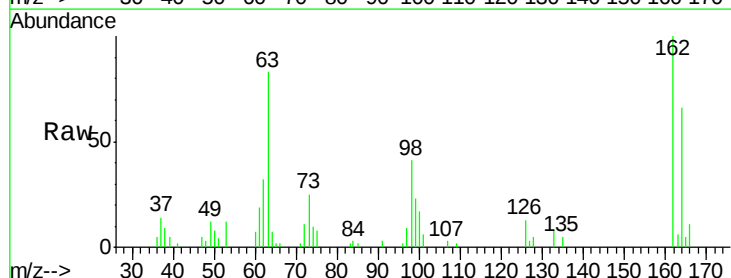
Instrument :  
 BNA\_M  
 ClientSampleId :  
 1524

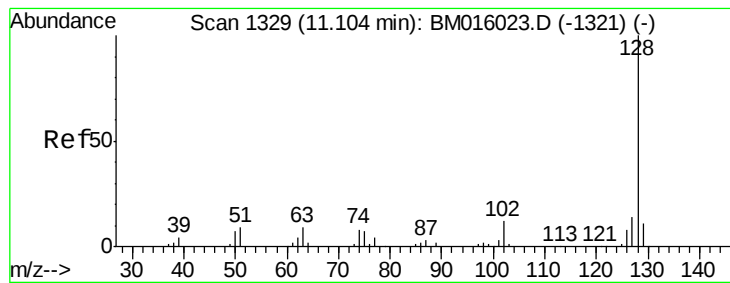
Tgt Ion:139 Resp: 6779  
 Ion Ratio Lower Upper  
 139 100  
 109 41.9 20.1 30.1#  
 65 60.1 31.5 47.3#



#29  
 2,4-Dichlorophenol  
 Concen: 15.299 ng  
 RT: 10.70 min Scan# 1261  
 Delta R.T. -0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

Tgt Ion:162 Resp: 39584  
 Ion Ratio Lower Upper  
 162 100  
 164 66.1 42.8 82.8  
 98 40.7 14.5 54.5





#31

Naphthalene

Concen: 5.496 ng

RT: 11.10 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

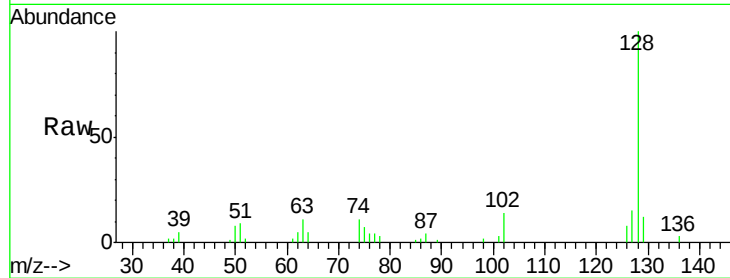
Tgt Ion:128 Resp: 48119

Ion Ratio Lower Upper

128 100

129 11.5 8.9 13.3

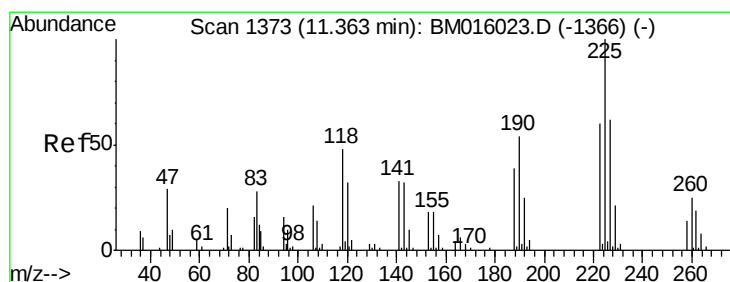
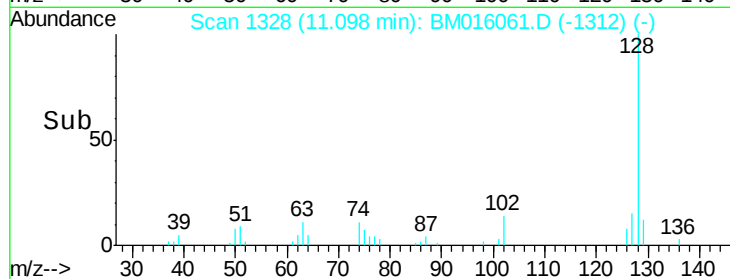
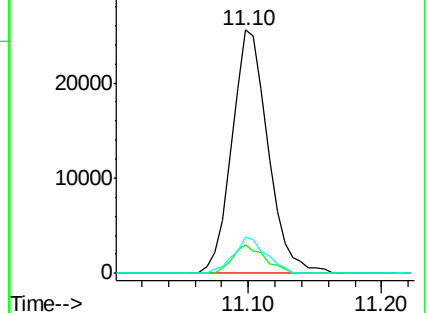
127 14.8 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

Hexachlorobutadiene

Concen: 9.441 ng

RT: 11.35 min Scan# 1371

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

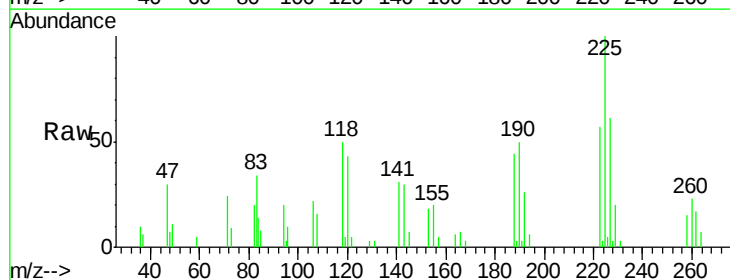
Tgt Ion:225 Resp: 20588

Ion Ratio Lower Upper

225 100

223 56.8 47.9 71.9

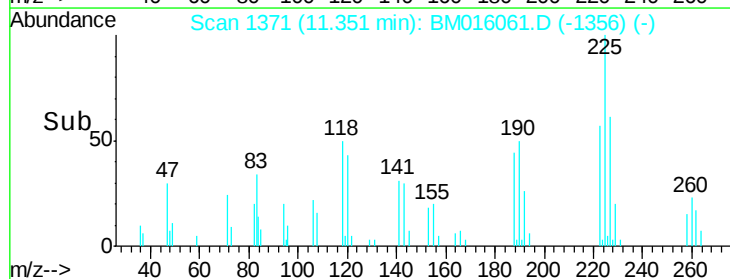
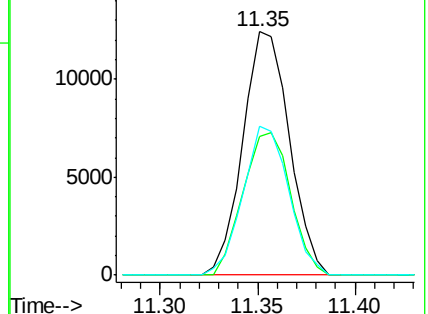
227 64.2 50.1 75.1

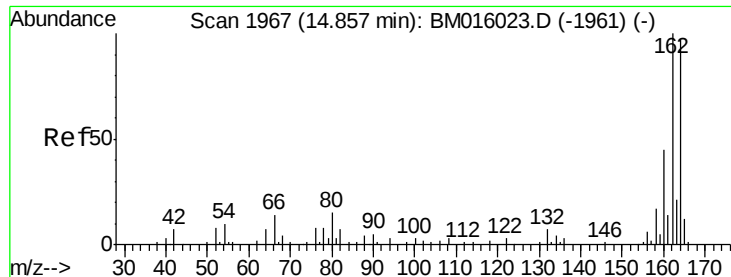


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.85 min Scan# 1966

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

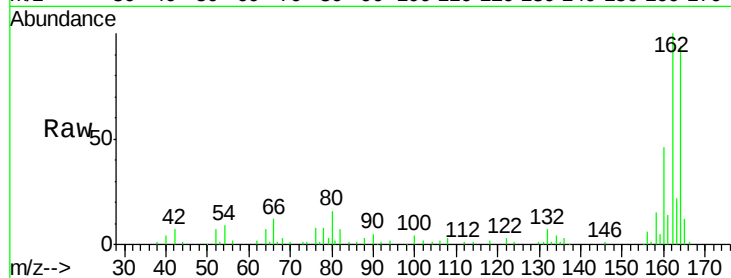
Tgt Ion:164 Resp: 90578

Ion Ratio Lower Upper

164 100

162 106.4 82.4 123.6

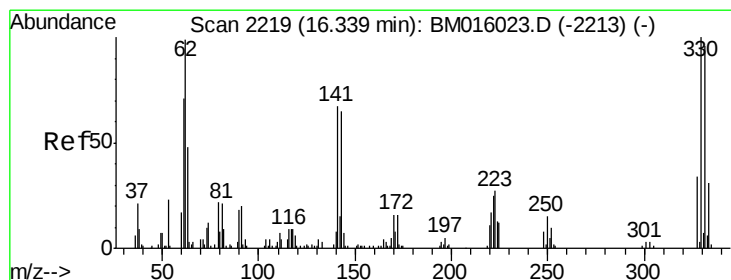
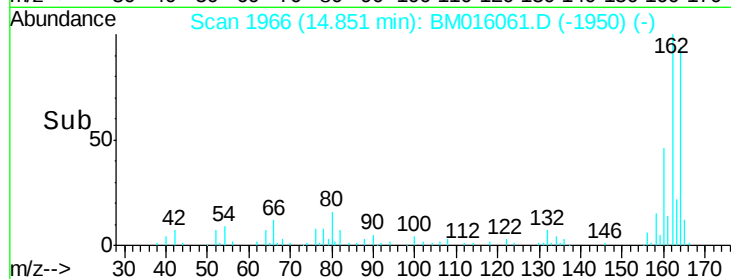
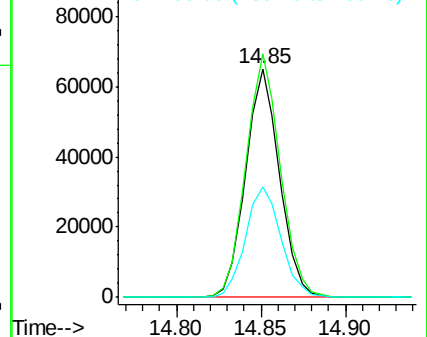
160 48.5 35.8 53.6



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



#41

2,4,6-Tribromophenol

Concen: N.D. ng

RT: 16.34 min Scan# 2219

Delta R.T. -0.00 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

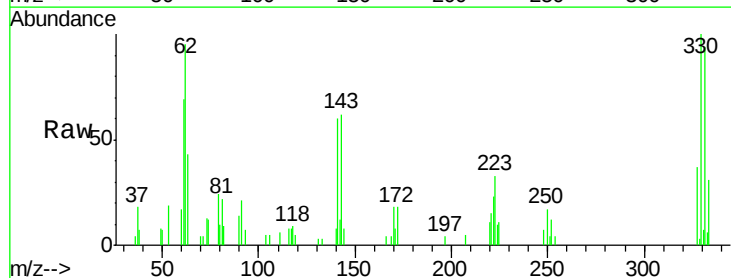
Tgt Ion:330 Resp: 13966

Ion Ratio Lower Upper

330 100

332 95.7 0.0 0.0#

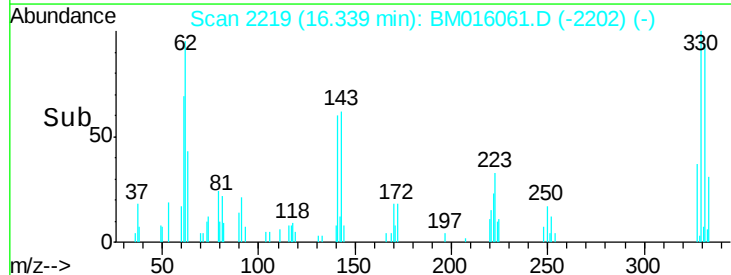
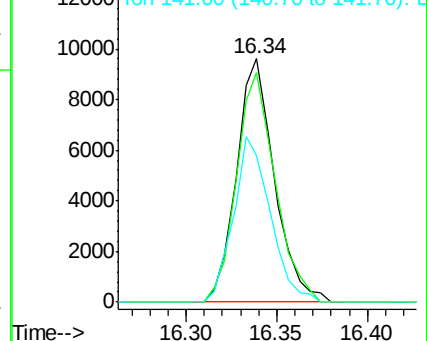
141 66.0 0.0 0.0#

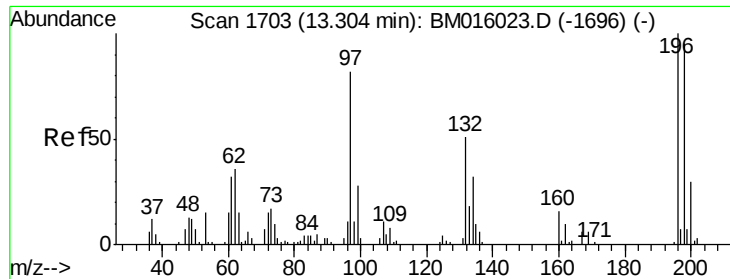


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#42

2,4,6-Trichlorophenol

Concen: 19.565 ng

RT: 13.30 min Scan# 1702

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

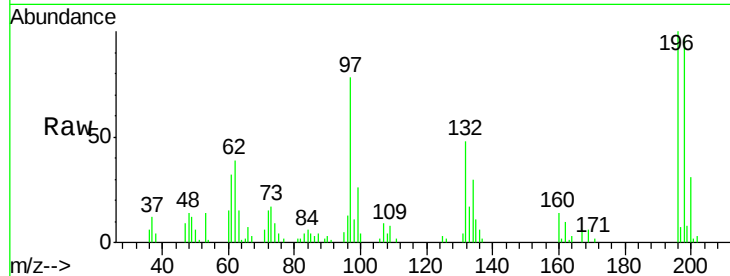
Tgt Ion:196 Resp: 37747

Ion Ratio Lower Upper

196 100

198 97.0 76.3 114.5

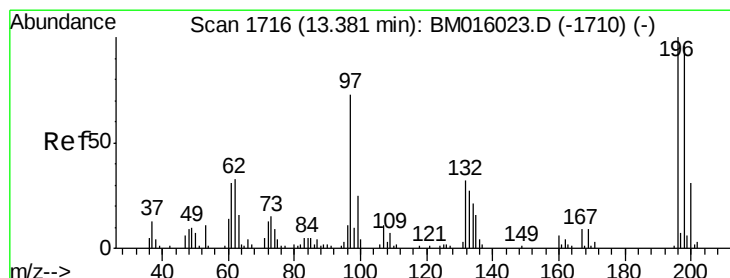
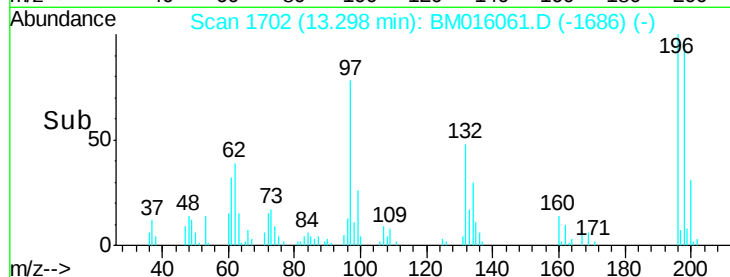
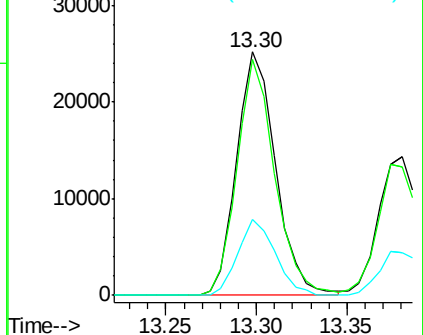
200 31.1 25.6 38.4



Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E



#43

2,4,5-Trichlorophenol

Concen: 12.548 ng

RT: 13.38 min Scan# 1716

Delta R.T. -0.00 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Tgt Ion:196 Resp: 24972

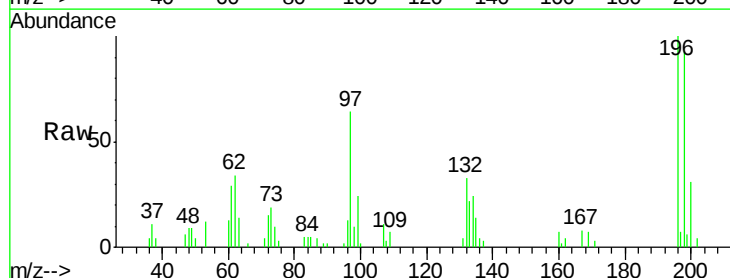
Ion Ratio Lower Upper

196 100

198 92.8 79.4 119.0

97 64.0 26.8 40.2#

132 33.3 18.6 28.0#

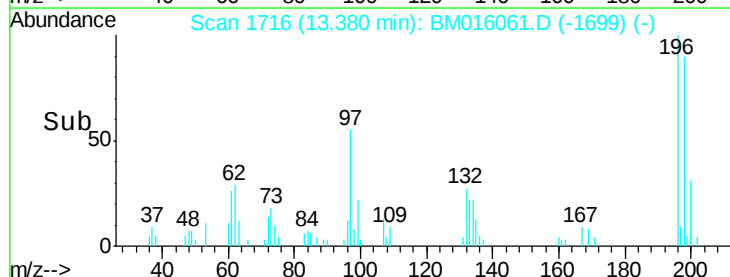
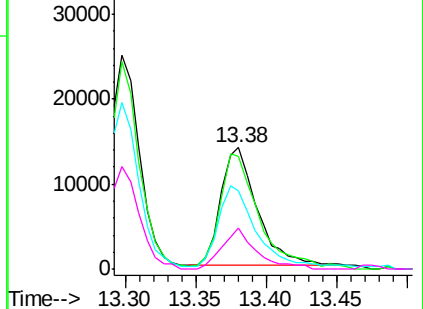


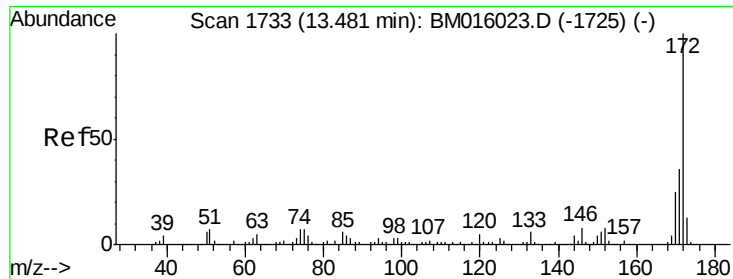
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BM0

Ion 132.00 (131.70 to 132.70): E

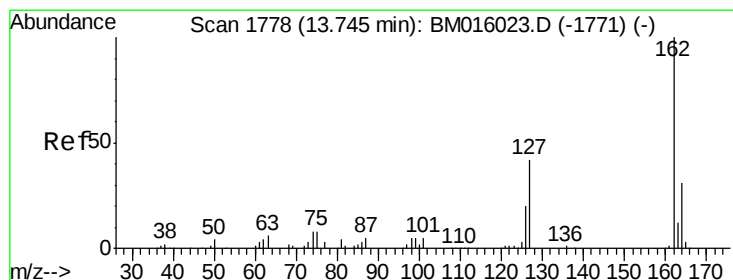
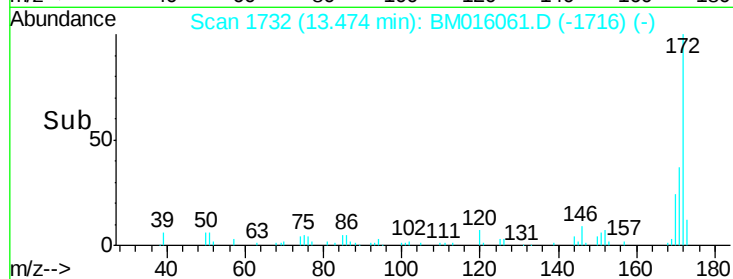
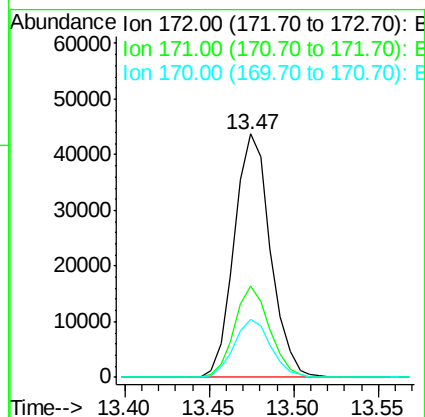
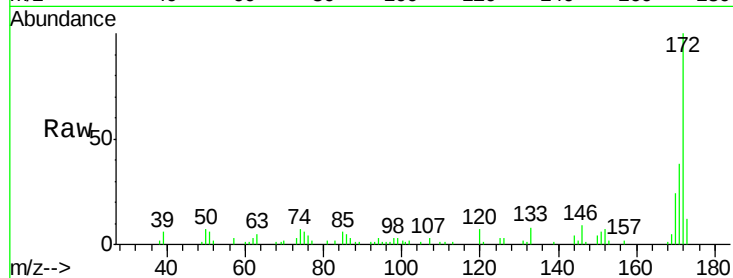




#44  
 2-Fluorobiphenyl  
 Concen: 12.548 ng  
 RT: 13.47 min Scan# 1732  
 Delta R.T. -0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

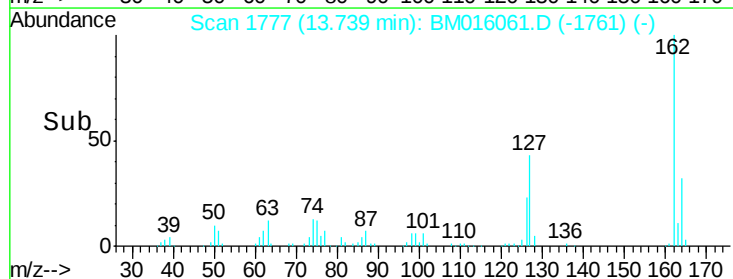
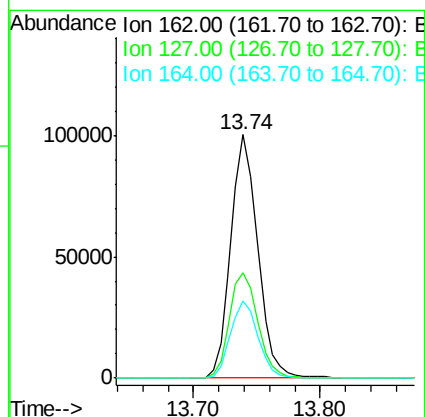
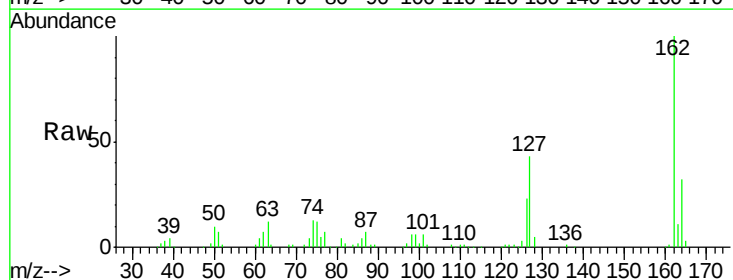
Instrument :  
 BNA\_M  
 ClientSampleId :  
 1524

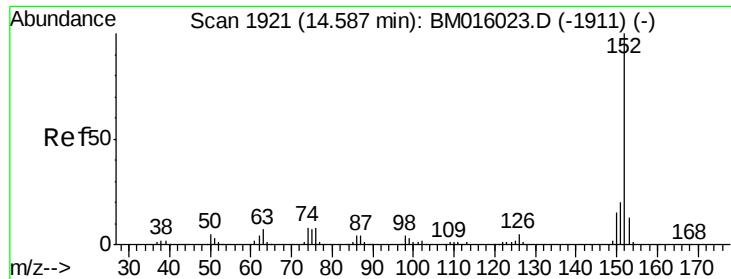
Tgt Ion:172 Resp: 65329  
 Ion Ratio Lower Upper  
 172 100  
 171 37.6 28.5 42.7  
 170 23.9 18.8 28.2



#46  
 2-Chloronaphthalene  
 Concen: 23.228 ng  
 RT: 13.74 min Scan# 1777  
 Delta R.T. -0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

Tgt Ion:162 Resp: 147681  
 Ion Ratio Lower Upper  
 162 100  
 127 43.3 26.9 40.3#  
 164 31.9 26.8 40.2





#48

Acenaphthylene

Concen: 22.219 ng

RT: 14.58 min Scan# 1920

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

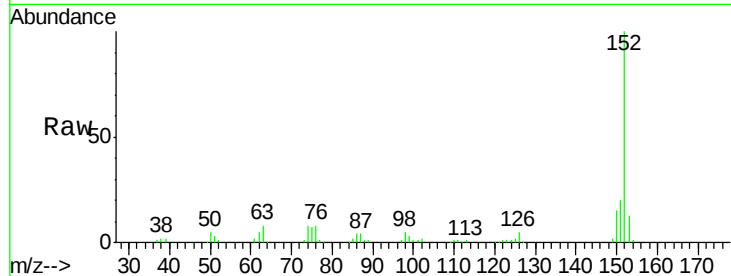
Tgt Ion:152 Resp: 206800

Ion Ratio Lower Upper

152 100

151 20.4 15.9 23.9

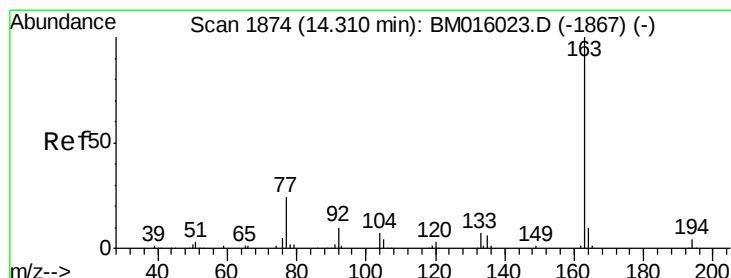
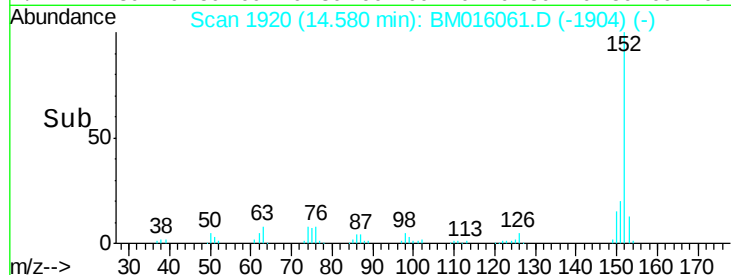
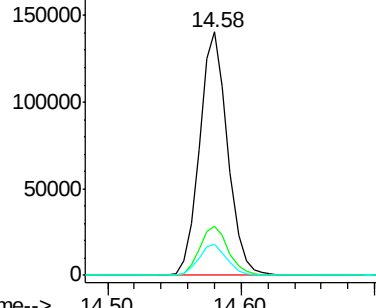
153 12.8 10.6 16.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 5.014 ng

RT: 14.30 min Scan# 1873

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

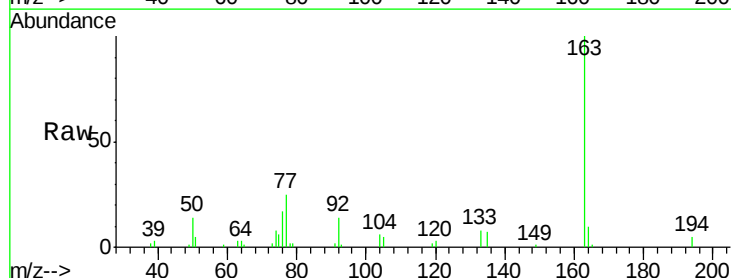
Tgt Ion:163 Resp: 39749

Ion Ratio Lower Upper

163 100

194 4.7 2.7 4.1#

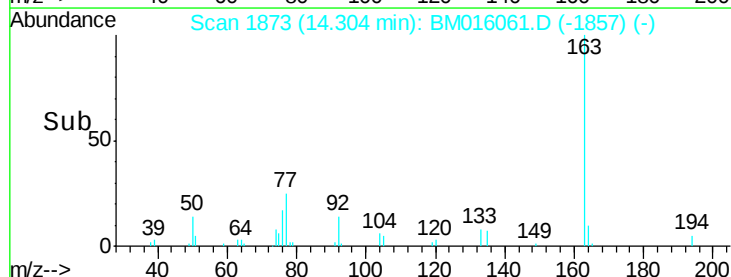
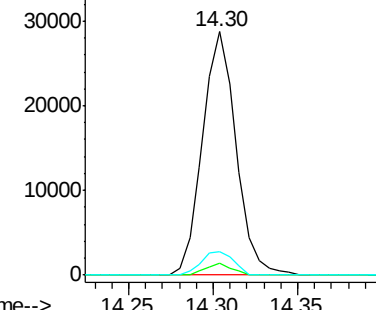
164 9.6 8.2 12.2

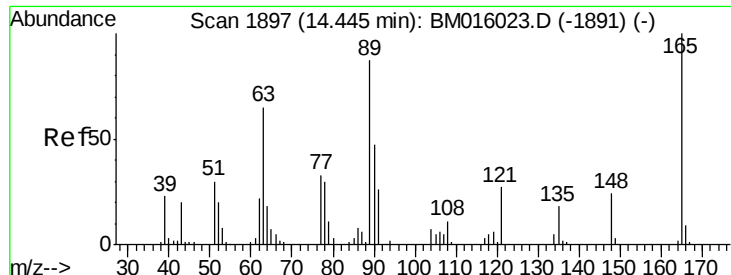


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

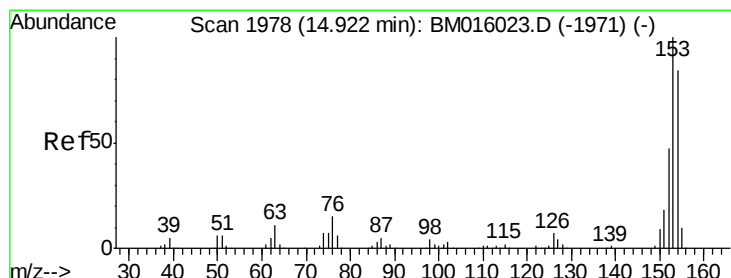
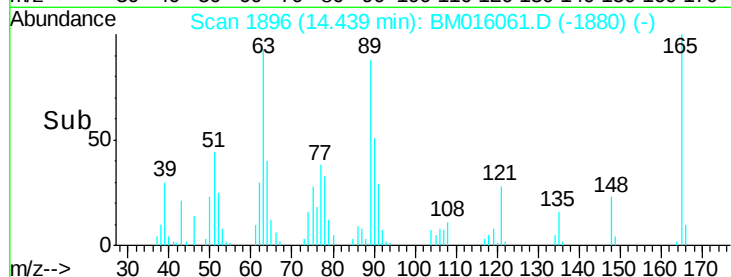
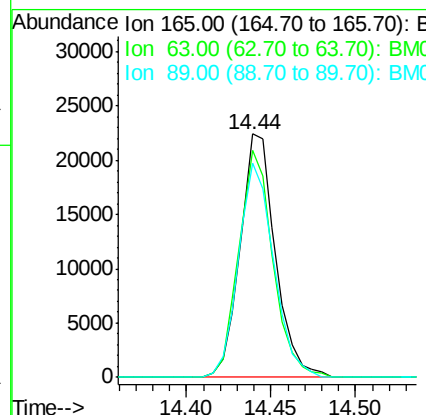
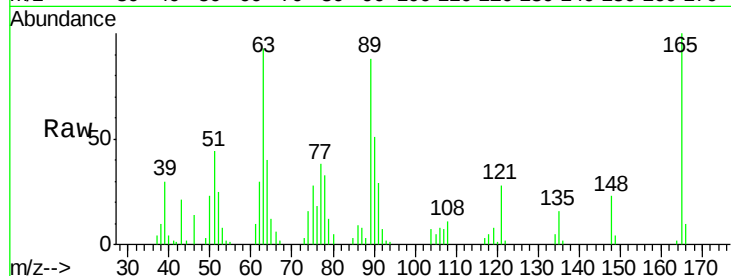




#50  
2,6-Dinitrotoluene  
Concen: 20.356 ng  
RT: 14.44 min Scan# 1896  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

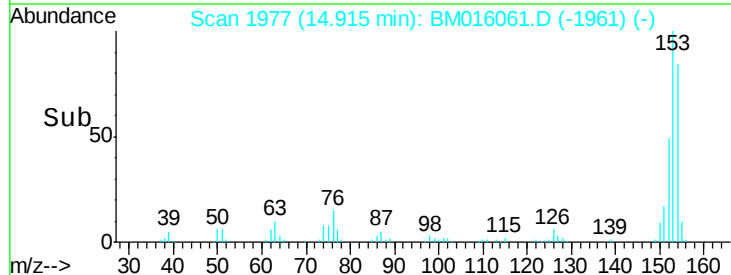
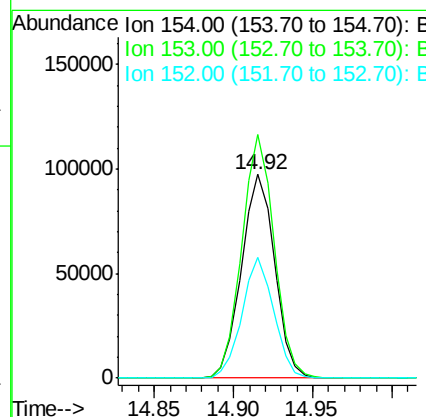
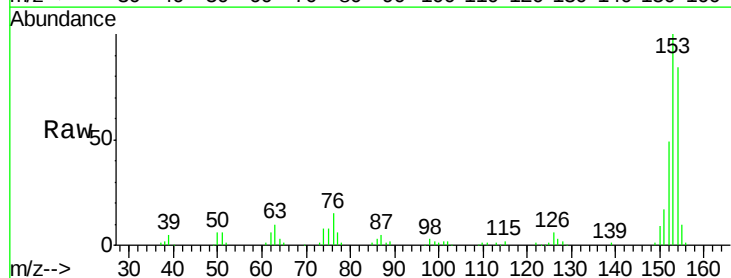
Instrument :  
BNA\_M  
ClientSampleId :  
1524

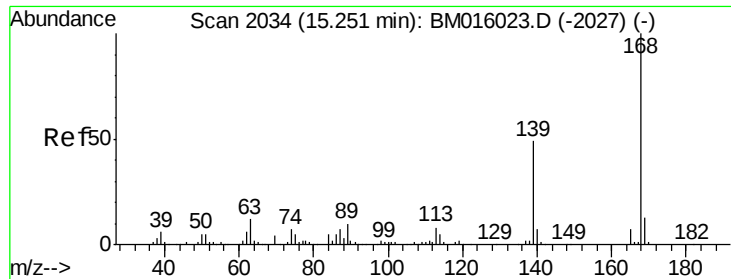
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 93.5  | 44.1  | 66.1# |
| 89      | 87.9  | 44.3  | 66.5# |



#51  
Acenaphthene  
Concen: 24.789 ng  
RT: 14.92 min Scan# 1977  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 119.5 | 90.0  | 135.0 |
| 152     | 59.1  | 42.6  | 63.8  |





#54

Dibenzofuran

Concen: 27.620 ng

RT: 15.25 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampled :

1524

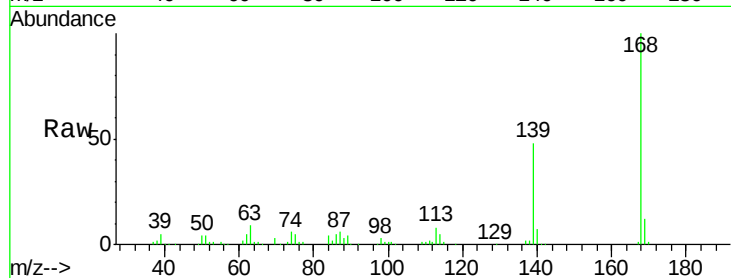
Tgt Ion:168 Resp: 260539

Ion Ratio Lower Upper

168 100

139 48.1 27.3 40.9#

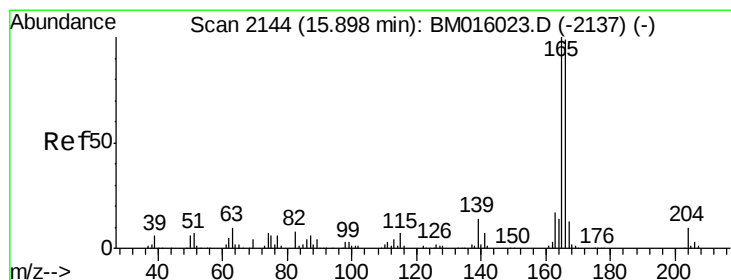
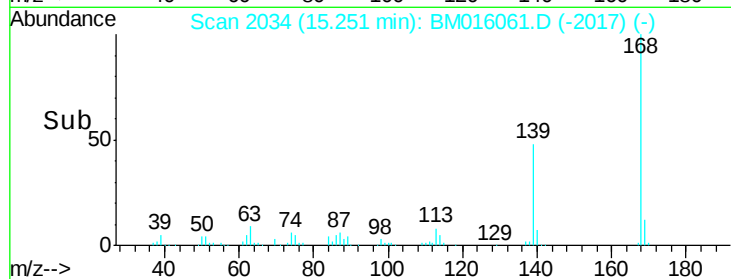
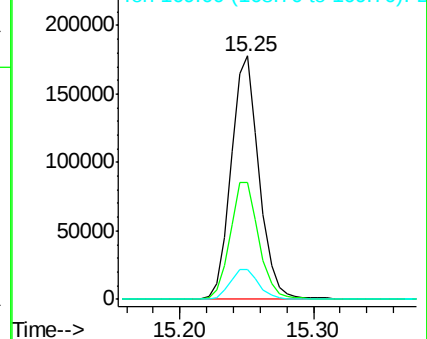
169 12.4 10.6 16.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 29.653 ng

RT: 15.89 min Scan# 2143

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

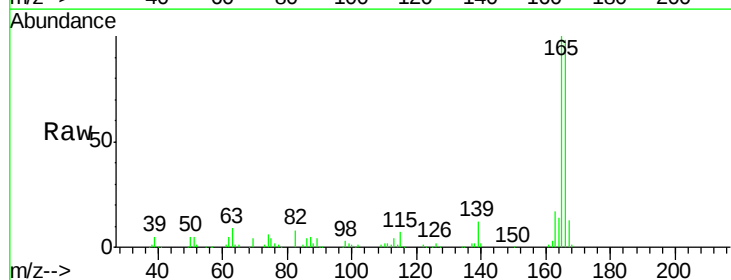
Tgt Ion:166 Resp: 207857

Ion Ratio Lower Upper

166 100

165 102.1 79.0 118.4

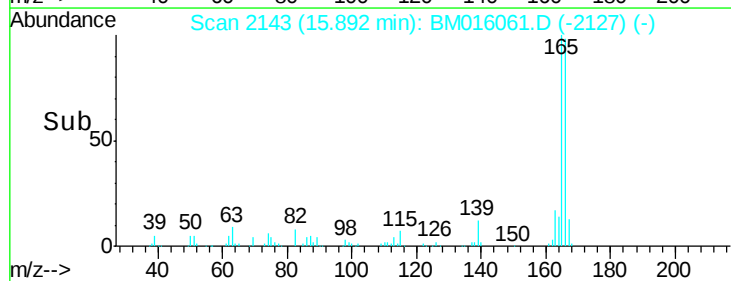
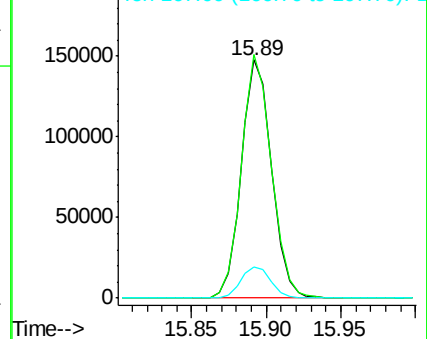
167 13.2 10.3 15.5

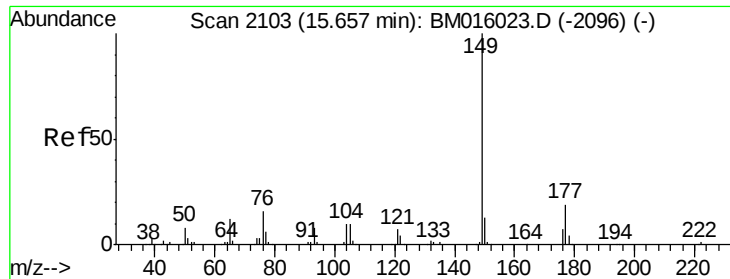


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

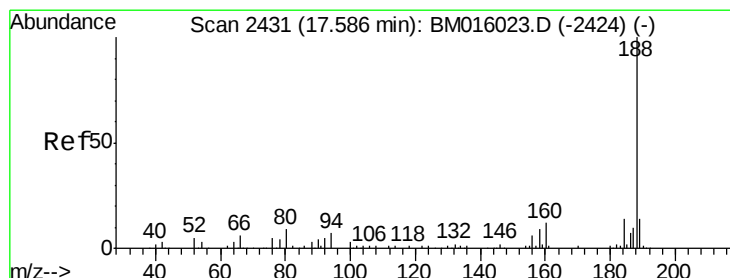
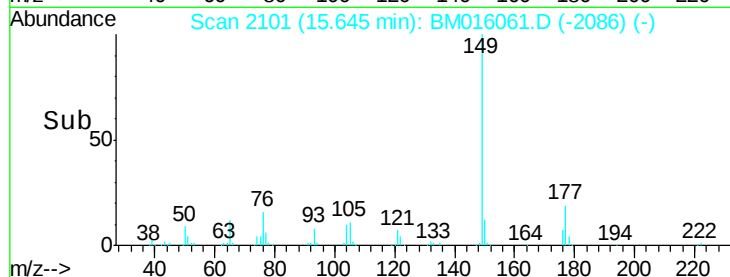
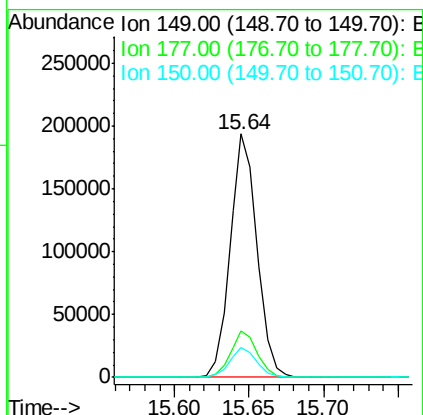
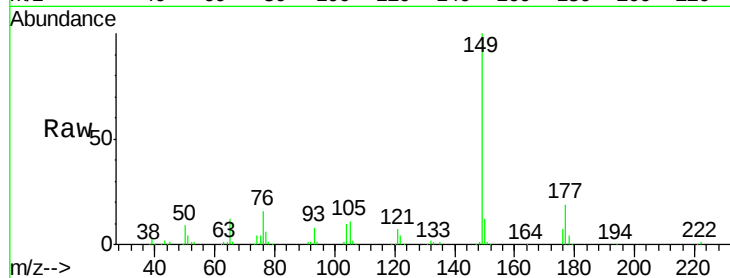




#59  
Diethylphthalate  
Concen: 28.447 ng  
RT: 15.64 min Scan# 2101  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

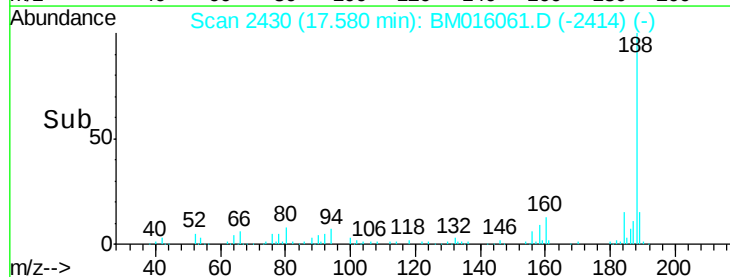
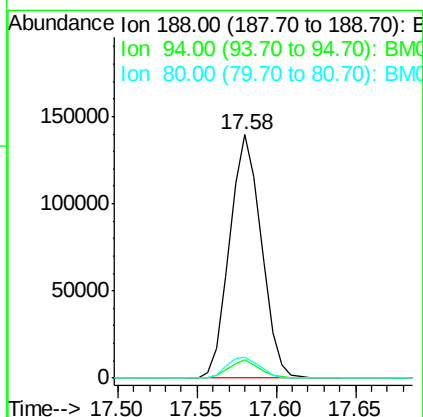
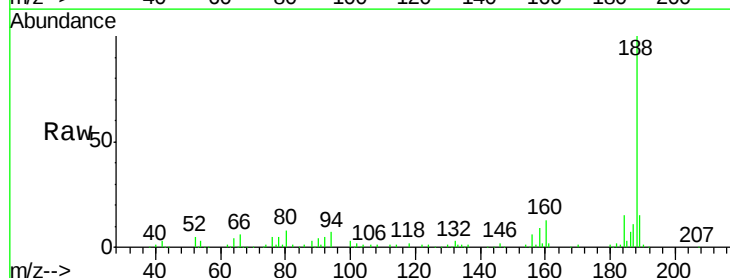
Instrument :  
BNA\_M  
ClientSampleId :  
1524

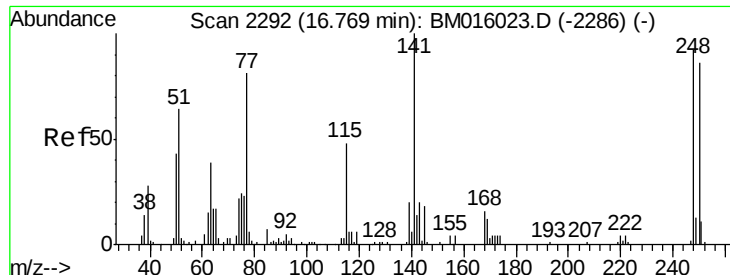
Tgt Ion:149 Resp: 243055  
Ion Ratio Lower Upper  
149 100  
177 19.1 18.3 27.5  
150 12.4 9.8 14.8



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.58 min Scan# 2430  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

Tgt Ion:188 Resp: 193580  
Ion Ratio Lower Upper  
188 100  
94 7.3 8.7 13.1#  
80 8.5 9.3 13.9#

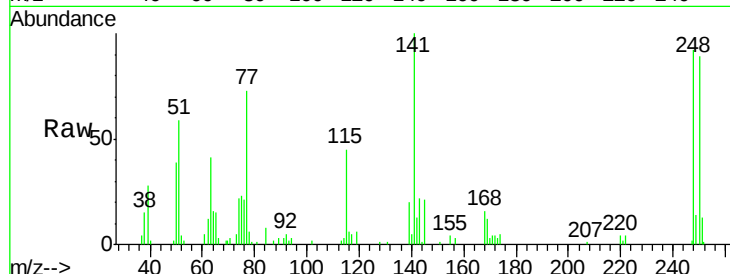




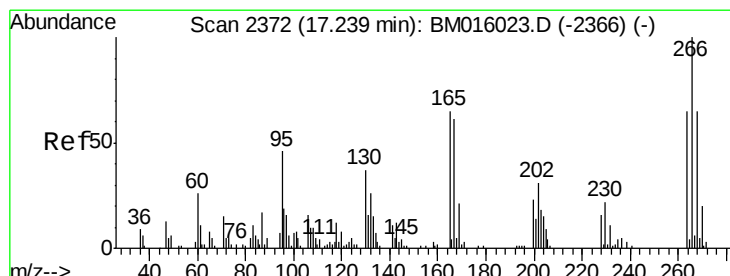
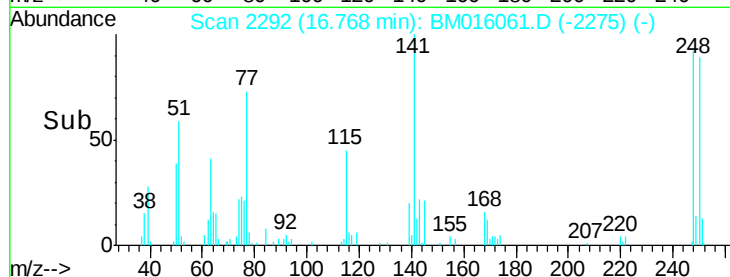
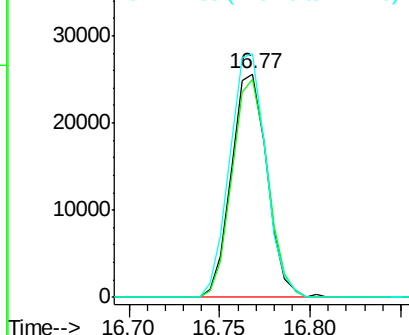
#66  
 4-Bromophenyl-phenylether  
 Concen: 16.017 ng  
 RT: 16.77 min Scan# 2292  
 Delta R.T. -0.00 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

Instrument :  
 BNA\_M  
 ClientSampleId :  
 1524

Tgt Ion:248 Resp: 35110  
 Ion Ratio Lower Upper  
 248 100  
 250 97.4 77.4 116.0  
 141 109.1 45.2 67.8#

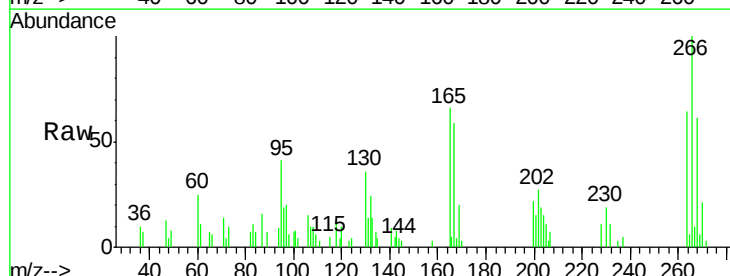


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

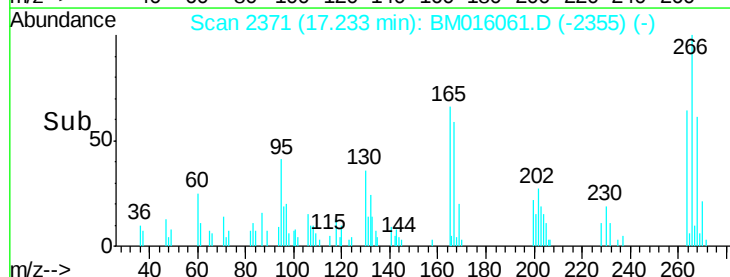
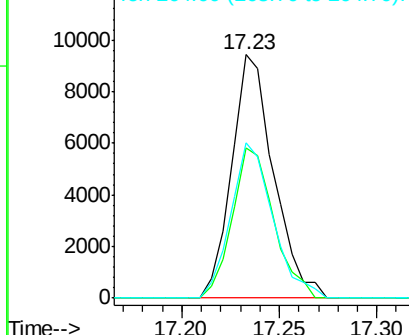


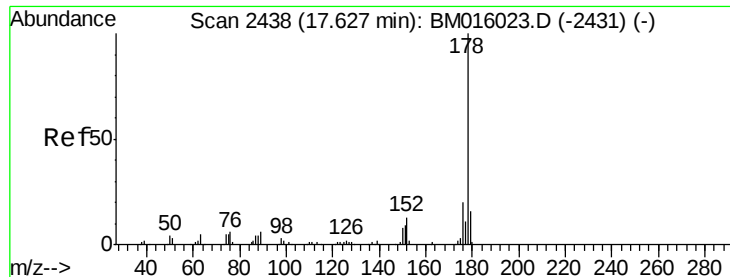
#69  
 Pentachlorophenol  
 Concen: 9.386 ng  
 RT: 17.23 min Scan# 2371  
 Delta R.T. -0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

Tgt Ion:266 Resp: 14030  
 Ion Ratio Lower Upper  
 266 100  
 268 61.4 52.0 78.0  
 264 63.6 49.0 73.4



Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E





#70

Phenanthrene

Concen: 22.639 ng

RT: 17.62 min Scan# 2437

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

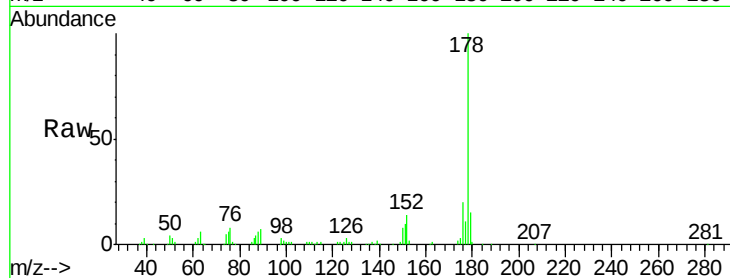
Tgt Ion:178 Resp: 245353

Ion Ratio Lower Upper

178 100

176 20.2 15.2 22.8

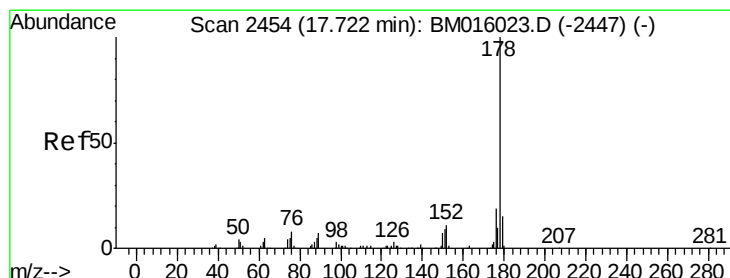
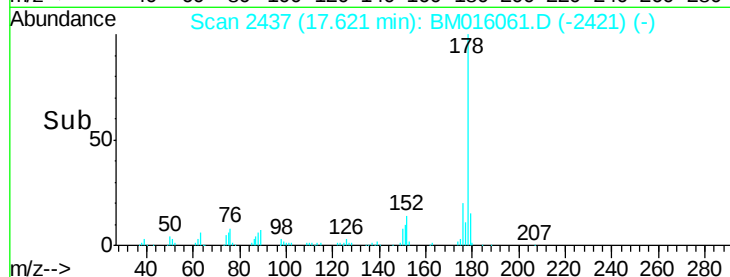
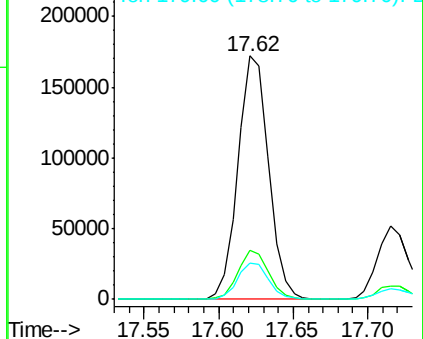
179 14.9 12.1 18.1



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



#71

Anthracene

Concen: 7.421 ng

RT: 17.72 min Scan# 2453

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

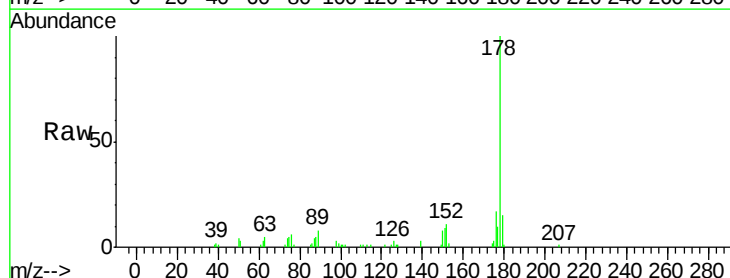
Tgt Ion:178 Resp: 78171

Ion Ratio Lower Upper

178 100

176 17.3 14.6 22.0

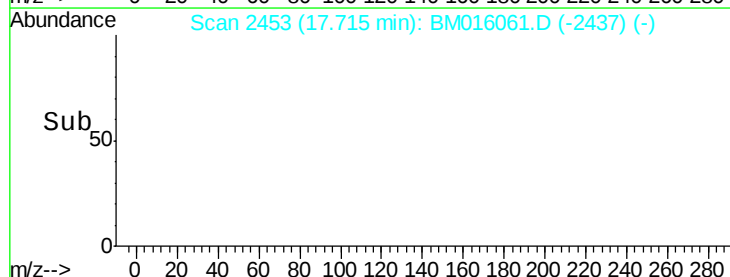
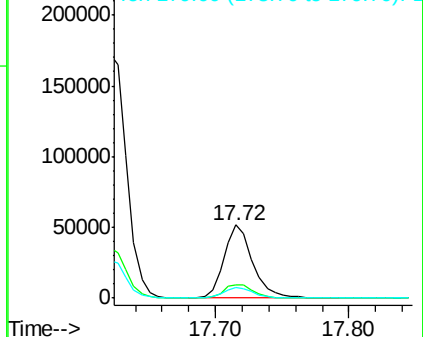
179 15.1 12.6 19.0

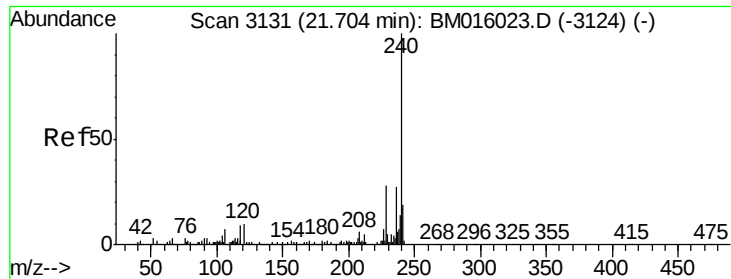


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

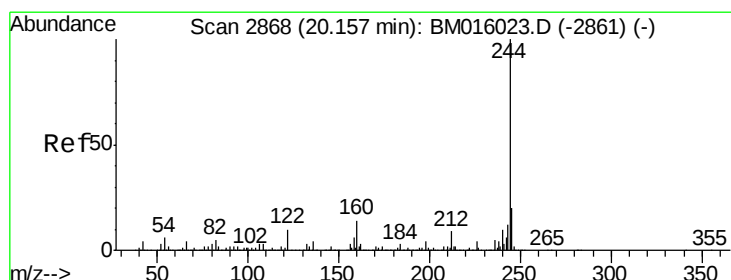
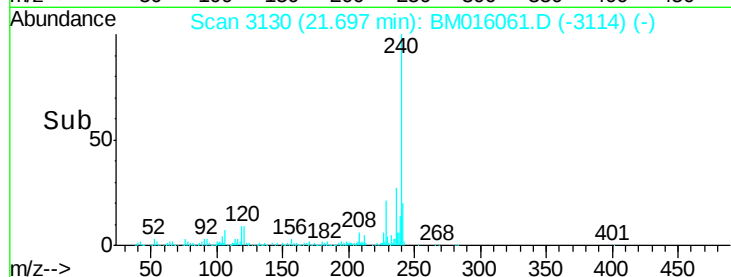
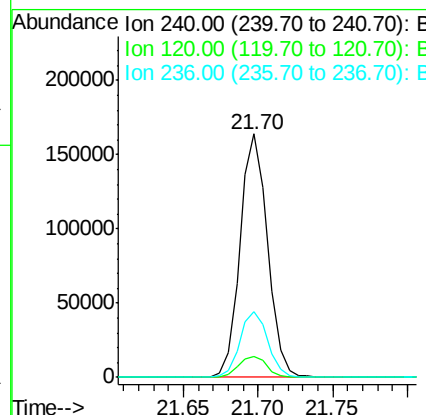
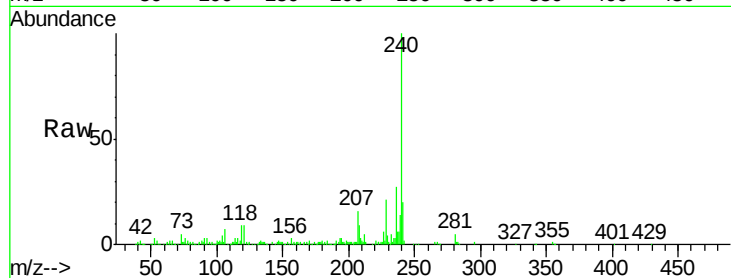




#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.70 min Scan# 3130  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

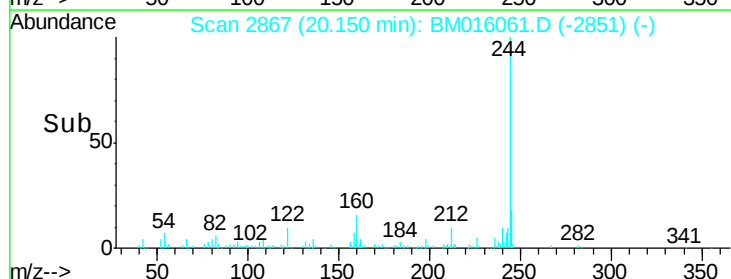
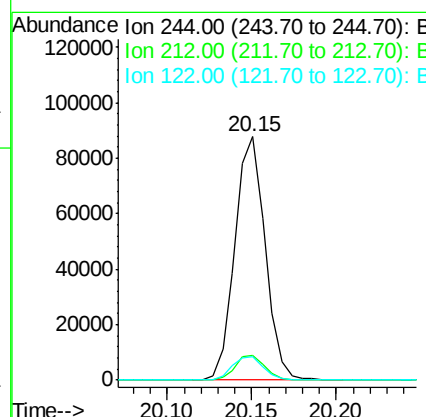
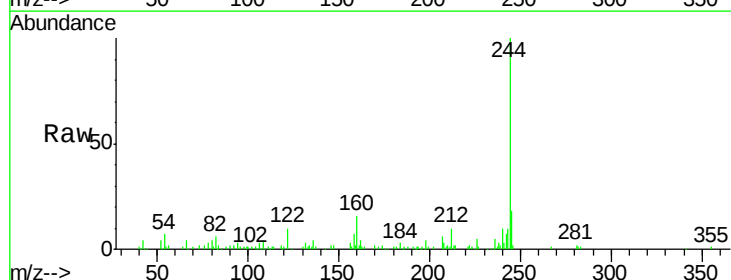
Instrument :  
BNA\_M  
ClientSampleId :  
1524

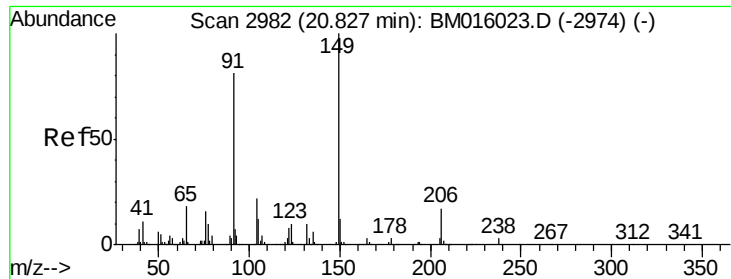
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.5   | 8.2   | 12.2  |
| 236     | 27.0  | 20.0  | 30.0  |



#78  
Terphenyl-d14  
Concen: Below ng  
RT: 20.15 min Scan# 2867  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.2  | 4.9   | 7.3#  |
| 122     | 9.7   | 6.2   | 9.4#  |

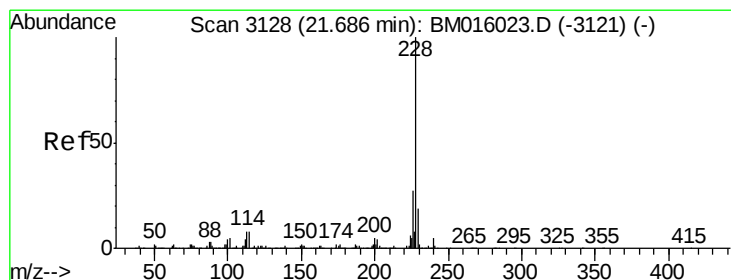
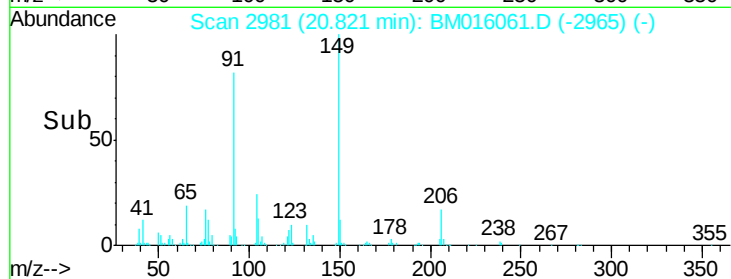
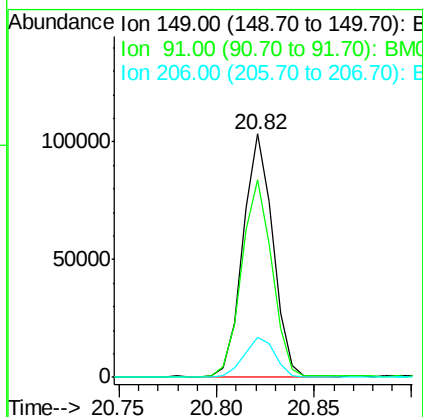
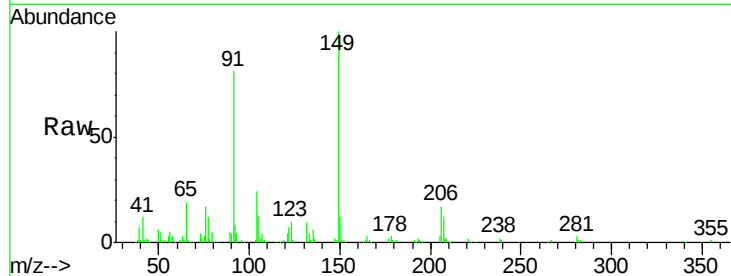




#79  
Butylbenzylphthalate  
Concen: 17.235 ng  
RT: 20.82 min Scan# 2981  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

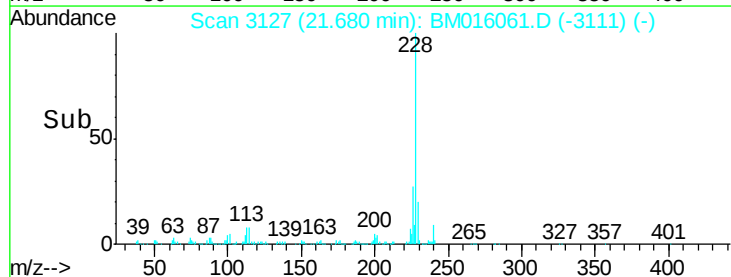
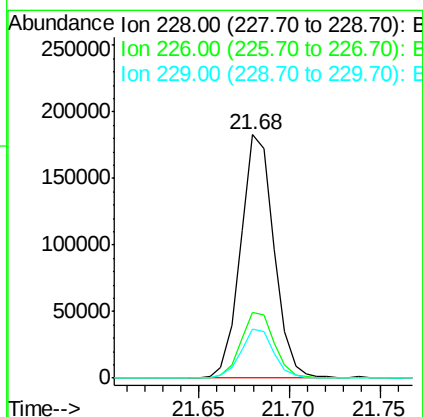
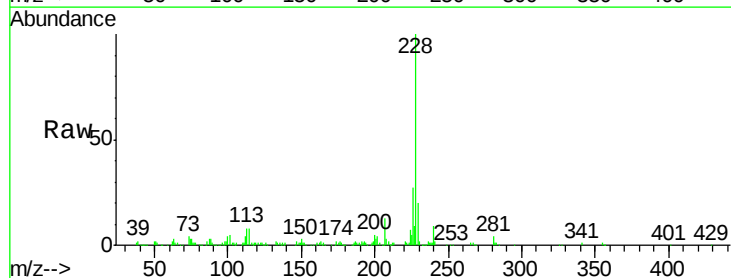
Instrument :  
BNA\_M  
ClientSampled :  
1524

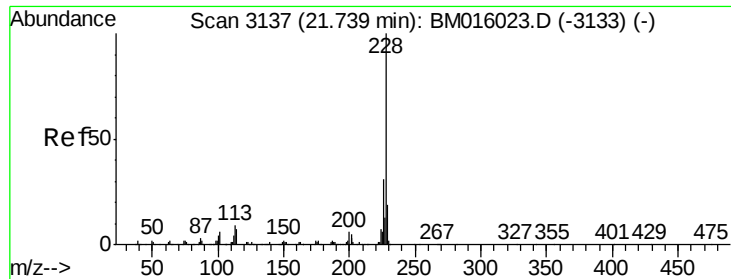
Tgt Ion:149 Resp: 110320  
Ion Ratio Lower Upper  
149 100  
91 81.3 50.1 75.1#  
206 16.6 16.2 24.2



#80  
Benzo(a)anthracene  
Concen: 18.034 ng  
RT: 21.68 min Scan# 3127  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

Tgt Ion:228 Resp: 233542  
Ion Ratio Lower Upper  
228 100  
226 27.1 21.7 32.5  
229 20.1 16.0 24.0





#82

Chrysene

Concen: 18.800 ng

RT: 21.68 min Scan# 3127

Delta R.T. -0.06 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524

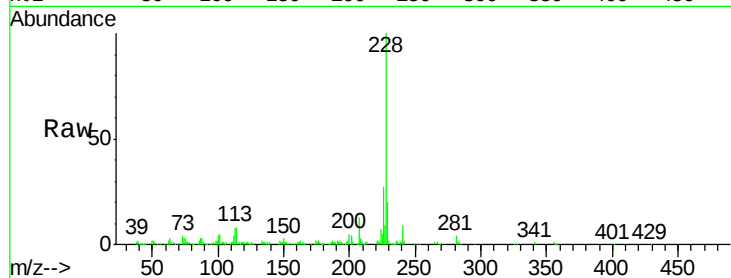
Tgt Ion:228 Resp: 233538

Ion Ratio Lower Upper

228 100

226 27.1 24.1 36.1

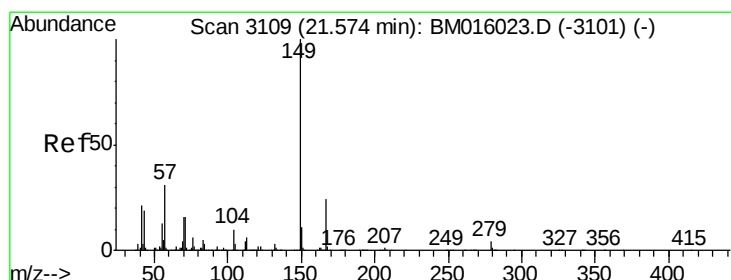
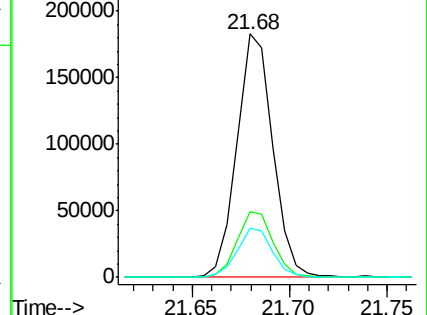
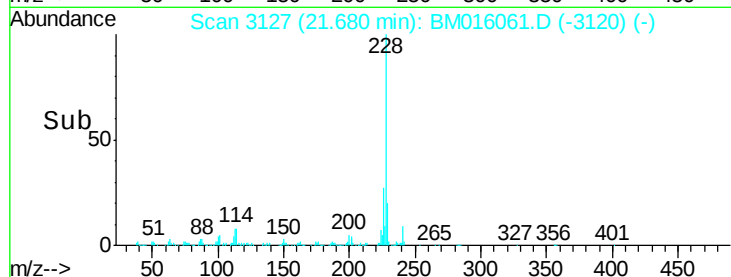
229 20.1 15.5 23.3



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

Bis(2-ethylhexyl)phthalate

Concen: 14.082 ng

RT: 21.57 min Scan# 3108

Delta R.T. -0.01 min

Lab File: BM016061.D

Acq: 24 Jul 2018 18:29

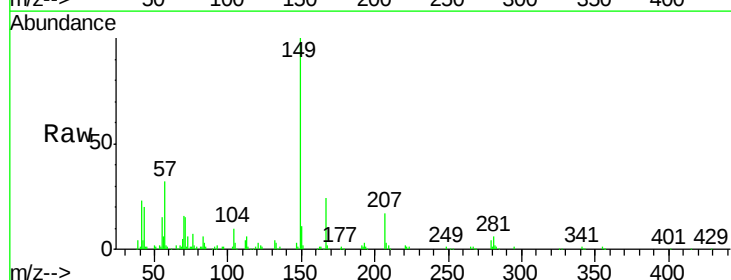
Tgt Ion:149 Resp: 130630

Ion Ratio Lower Upper

149 100

167 23.6 22.4 33.6

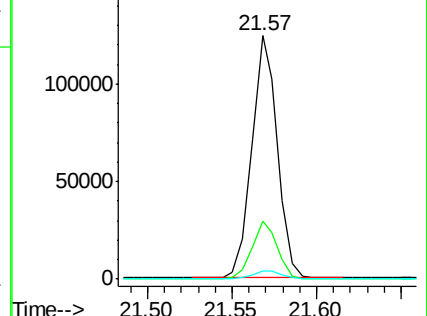
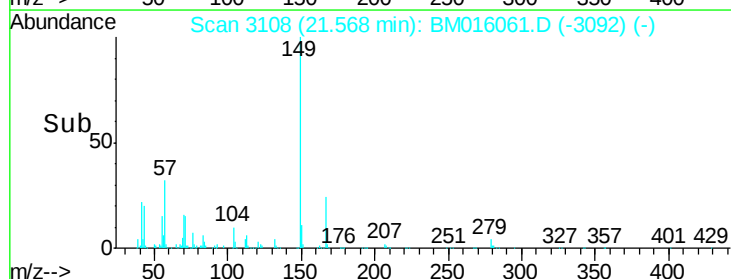
279 3.6 3.4 5.0

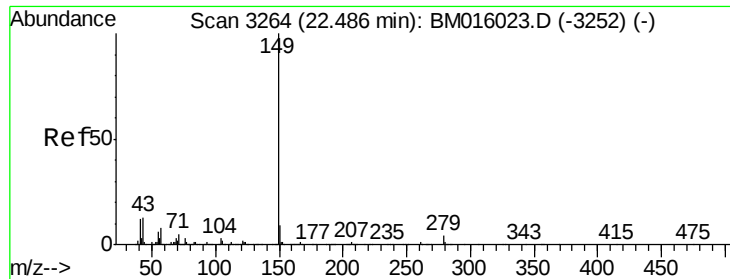


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

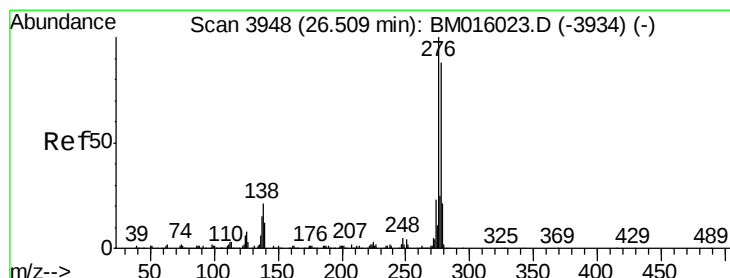
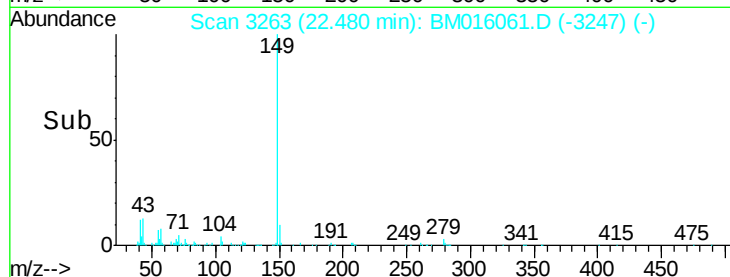
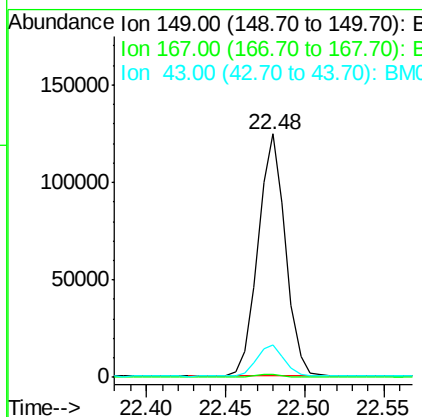
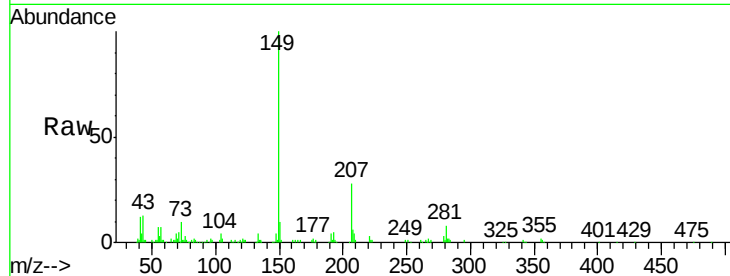




#84  
 Di-n-octyl phthalate  
 Concen: 9.584 ng  
 RT: 22.48 min Scan# 3263  
 Delta R.T. -0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

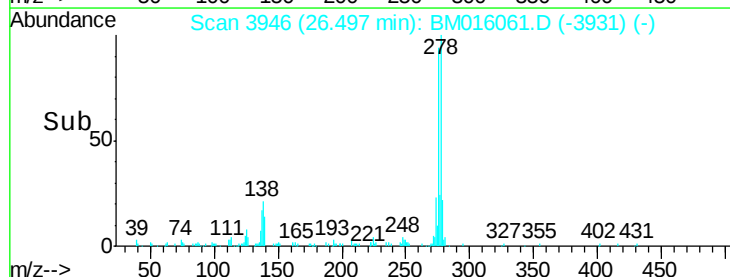
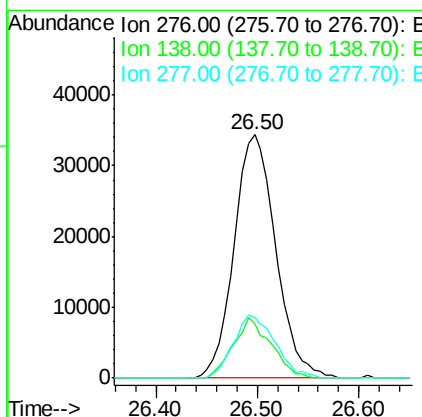
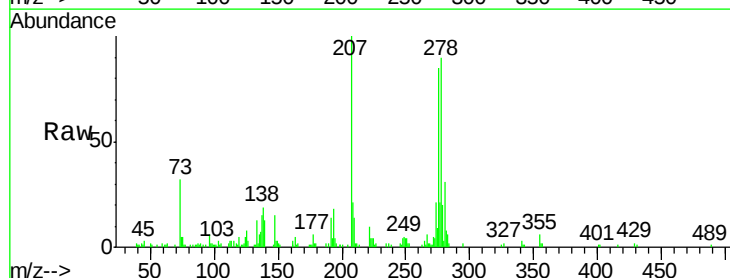
Instrument :  
 BNA\_M  
 ClientSampleId :  
 1524

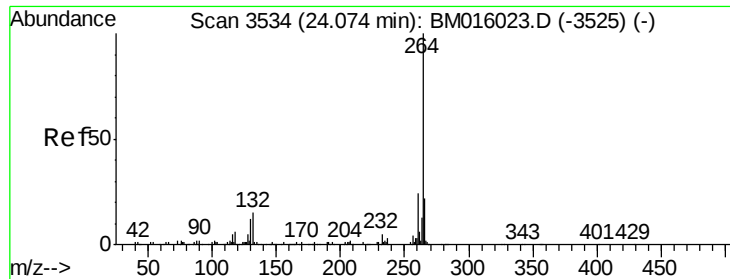
Tgt Ion:149 Resp: 149427  
 Ion Ratio Lower Upper  
 149 100  
 167 1.5 1.2 1.8  
 43 13.3 7.3 10.9#



#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.666 ng  
 RT: 26.50 min Scan# 3946  
 Delta R.T. -0.01 min  
 Lab File: BM016061.D  
 Acq: 24 Jul 2018 18:29

Tgt Ion:276 Resp: 98271  
 Ion Ratio Lower Upper  
 276 100  
 138 22.4 12.0 18.0#  
 277 25.8 20.0 30.0

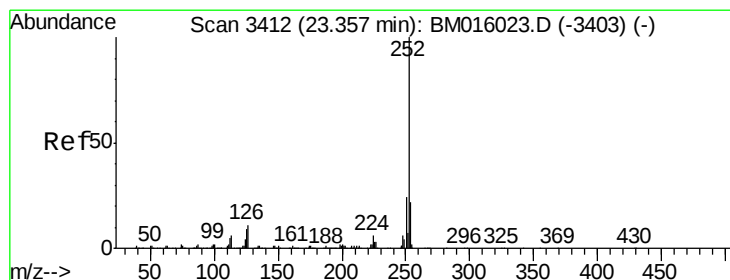
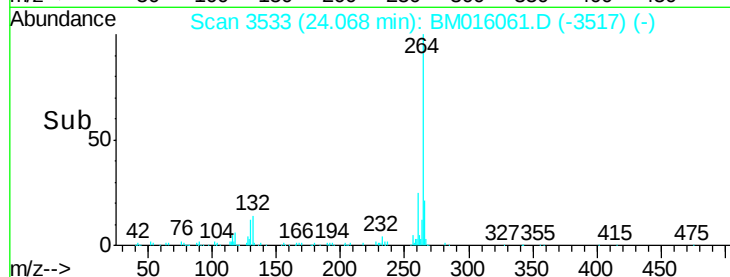
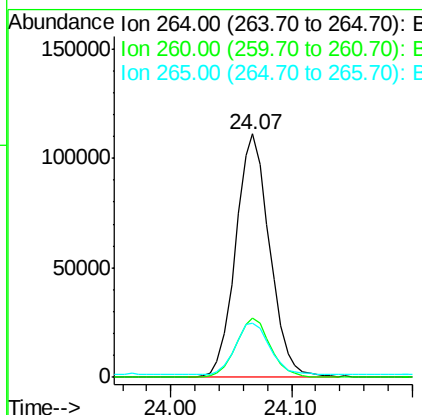
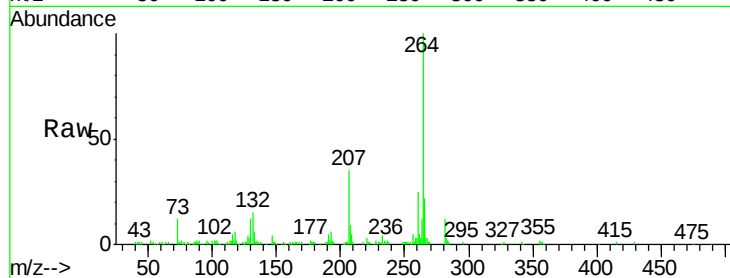




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.07 min Scan# 3533  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

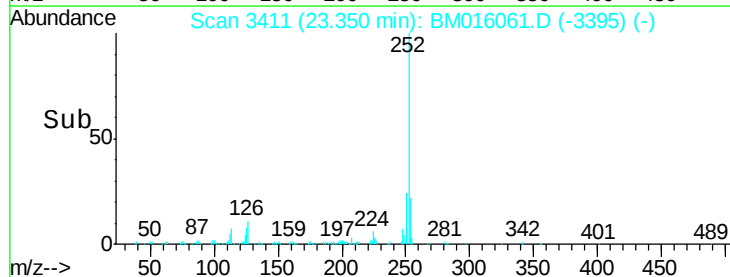
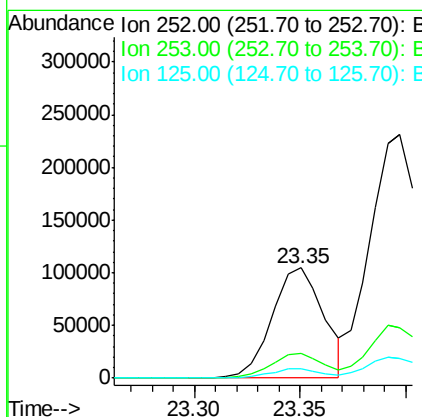
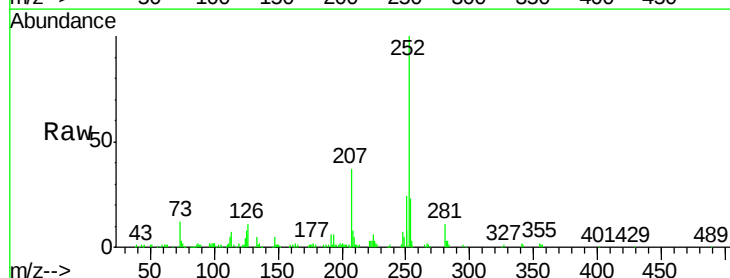
Instrument :  
BNA\_M  
ClientSampled :  
1524

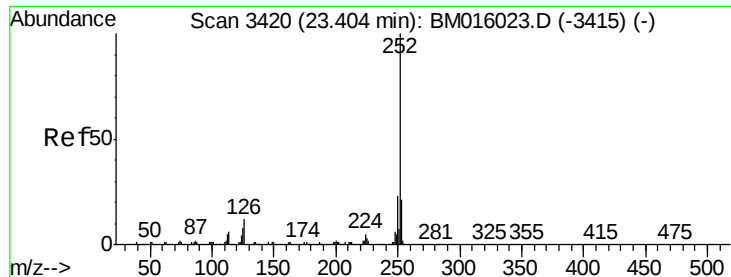
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 18.6  | 27.8  |
| 265     | 22.0  | 17.3  | 25.9  |



#87  
Benzo(b)fluoranthene  
Concen: 13.829 ng  
RT: 23.35 min Scan# 3411  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.0  | 27.0  |
| 125     | 8.4   | 9.9   | 14.9# |

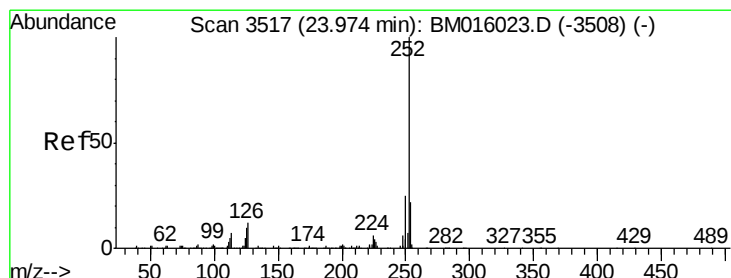
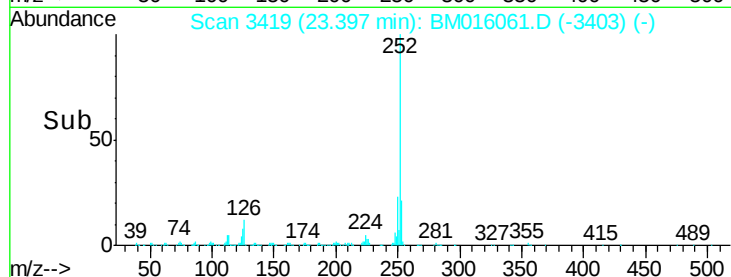
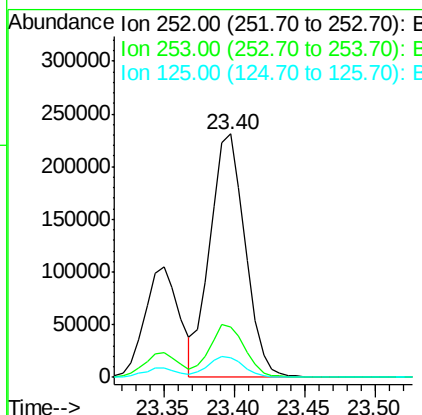
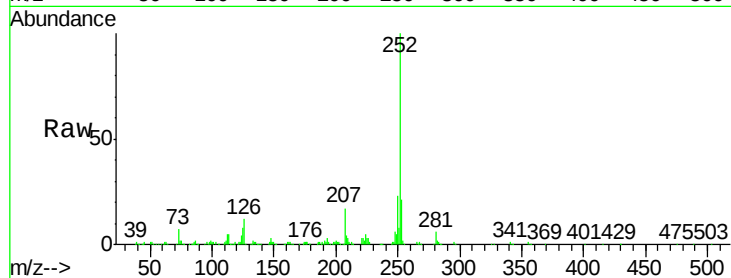




#88  
Benzo(k)fluoranthene  
Concen: 30.548 ng  
RT: 23.40 min Scan# 3419  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

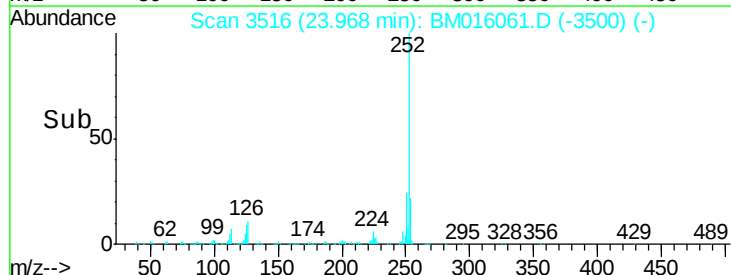
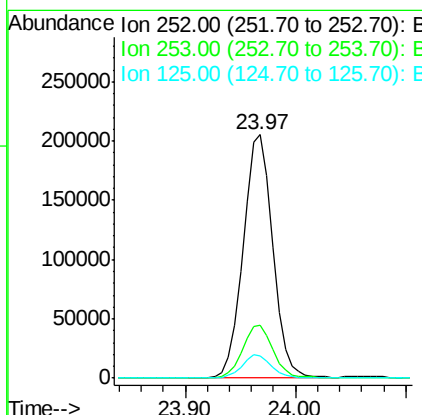
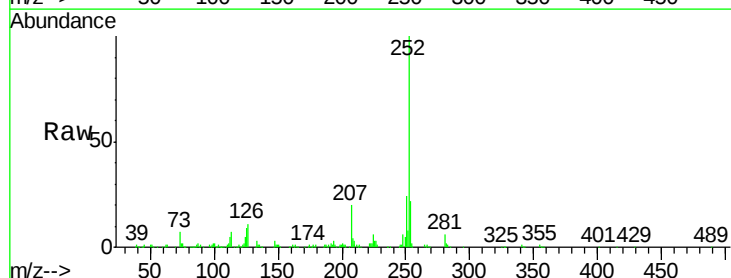
Instrument :  
BNA\_M  
ClientSampleId :  
1524

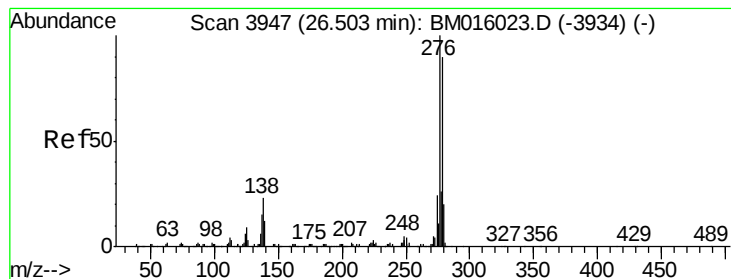
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.9  | 17.2  | 25.8  |
| 125     | 8.2   | 8.1   | 12.1  |



#89  
Benzo(a)pyrene  
Concen: 31.360 ng  
RT: 23.97 min Scan# 3516  
Delta R.T. -0.01 min  
Lab File: BM016061.D  
Acq: 24 Jul 2018 18:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 17.6  | 26.4  |
| 125     | 9.2   | 7.4   | 11.2  |





#90

Dibenzo(a,h)anthracene

Concen: 8.425 ng

RT: 26.50 min Scan# 3946

Delta R.T. -0.01 min

Lab File: BM016061.D

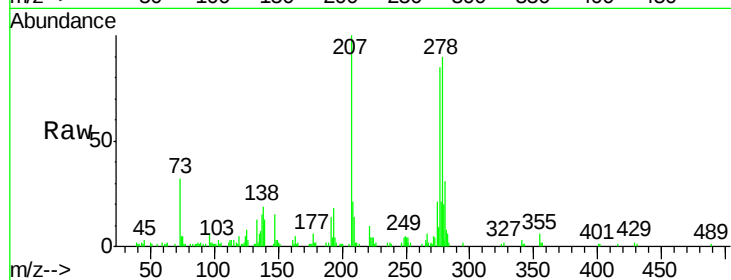
Acq: 24 Jul 2018 18:29

Instrument :

BNA\_M

ClientSampleId :

1524



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 278   | Resp: | 107907 |
| Ion      | Ratio | Lower | Upper  |
| 278      | 100   |       |        |
| 139      | 14.2  | 13.4  | 20.0   |
| 279      | 21.9  | 19.0  | 28.4   |

