

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102715\  
 Data File : BF082557.D  
 Acq On : 27 Oct 2015 20:15  
 Operator : UM/IZ  
 Sample : G4157-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WOOD-2

Quant Time: Oct 28 00:05:29 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 27 02:43:58 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.71  | 152  | 84196    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.00  | 136  | 333498   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.75  | 164  | 147984   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.23 | 188  | 249707   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.89 | 240  | 166301   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.32 | 264  | 166974   | 20.00 | ng    | -0.02    |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.33  | 112 | 536860 | 125.87 | ng | 0.01  |
| 7) Phenol-d6                | 6.38  | 99  | 658317 | 118.43 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.29  | 82  | 463856 | 89.73  | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330 | 140007 | 126.34 | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 9.09  | 172 | 851153 | 91.46  | ng | -0.01 |
| 78) Terphenyl-d14           | 12.82 | 244 | 587995 | 101.86 | ng | -0.02 |

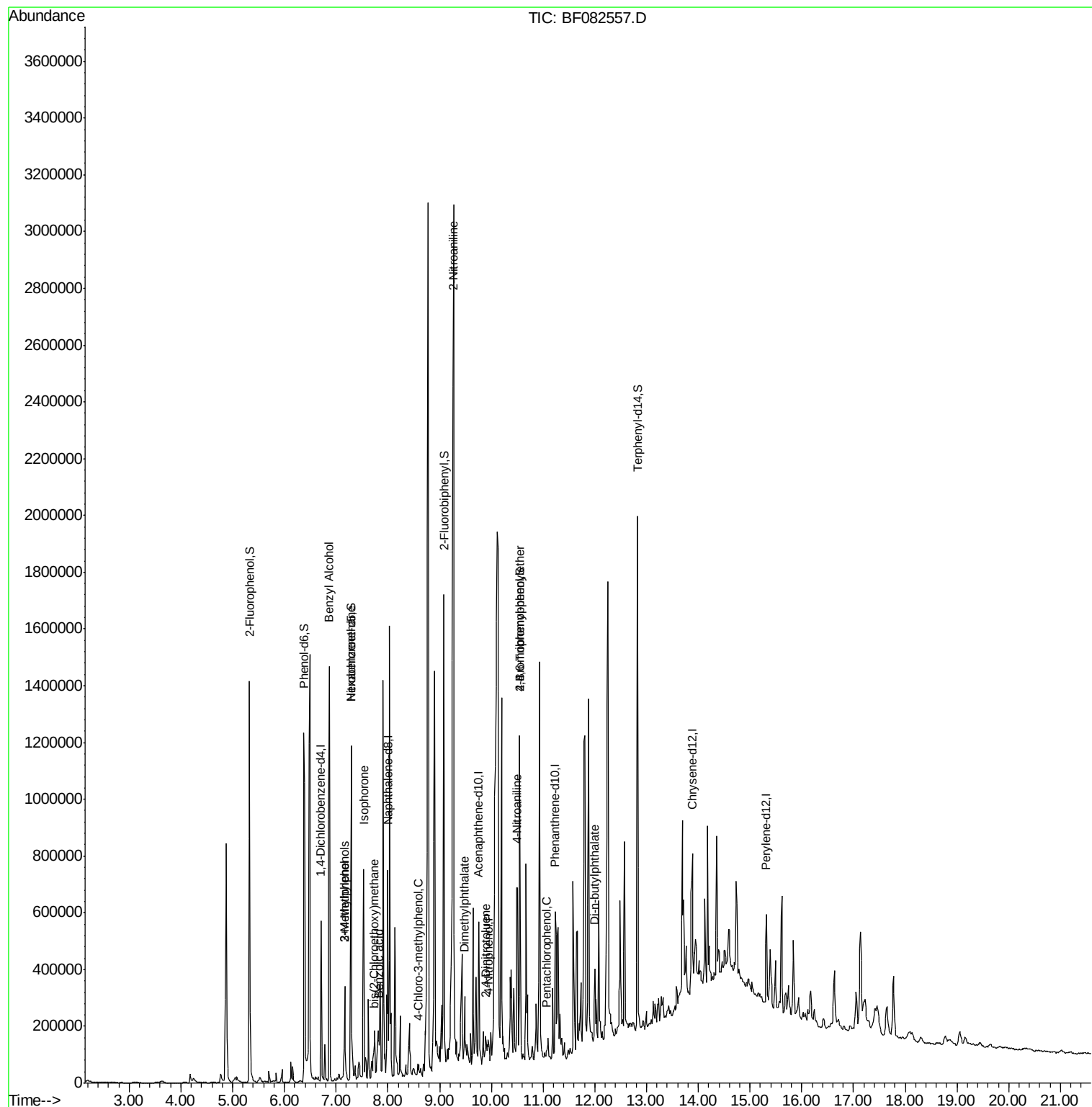
|                                |       |     |        |           |   |        |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| Target Compounds               |       |     |        |           |   | Qvalue |
| 9) Benzaldehyde                | 6.29  | 77  | 1941   | Below Cal |   | 96     |
| 15) Benzyl Alcohol             | 6.87  | 79  | 9881   | 2.55 ng   | # | 67     |
| 17) 2-Methylphenol             | 7.17  | 107 | 87774  | 21.88 ng  | # | 67     |
| 18) Hexachloroethane           | 7.29  | 117 | 8775   | 4.20 ng   | # | 1      |
| 20) 3+4-Methylphenols          | 7.17  | 107 | 90726  | 17.70 ng  |   | 86     |
| 25) Isophorone                 | 7.53  | 82  | 22605  | 2.20 ng   | # | 44     |
| 28) bis(2-Chloroethoxy)methane | 7.73  | 93  | 14480  | 2.40 ng   | # | 87     |
| 32) Benzoic acid               | 7.83  | 122 | 13526  | 5.33 ng   |   | 91     |
| 36) 4-Chloro-3-methylphenol    | 8.59  | 107 | 9034   | 2.06 ng   | # | 20     |
| 47) 2-Nitroaniline             | 9.27  | 65  | 132232 | 52.45 ng  | # | 23     |
| 49) Dimethylphthalate          | 9.49  | 163 | 74324  | 7.22 ng   |   | 99     |
| 55) 4-Nitrophenol              | 9.94  | 139 | 3928   | 10.81 ng  | # | 74     |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165 | 5862   | 2.14 ng   | # | 64     |
| 61) 4-Nitroaniline             | 10.50 | 138 | 86824  | 35.39 ng  | # | 27     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248 | 10998  | 4.69 ng   | # | 1      |
| 69) Pentachlorophenol          | 11.06 | 266 | 213    | 7.52 ng   | # | 20     |
| 73) Di-n-butylphthalate        | 12.00 | 149 | 60371  | 4.43 ng   |   | 97     |

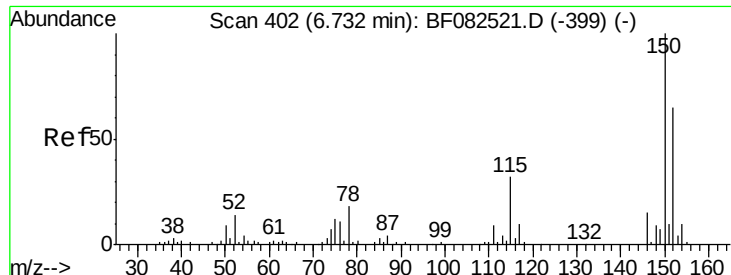
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102715\  
Data File : BF082557.D  
Acq On : 27 Oct 2015 20:15  
Operator : UM/IZ  
Sample : G4157-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

Quant Time: Oct 28 00:05:29 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 27 02:43:58 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

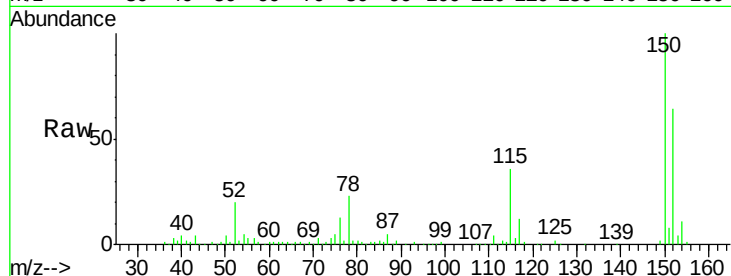
Tgt Ion:152 Resp: 84196

Ion Ratio Lower Upper

152 100

150 157.0 123.4 185.0

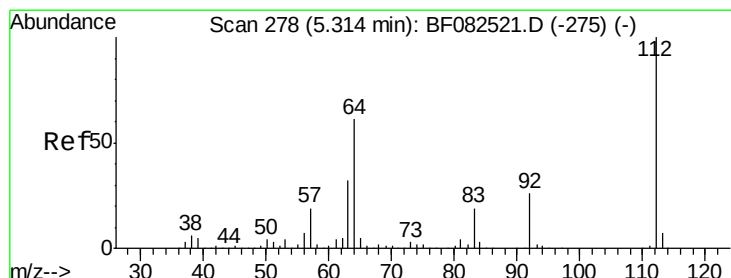
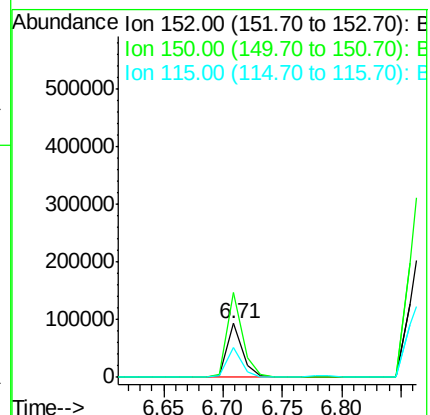
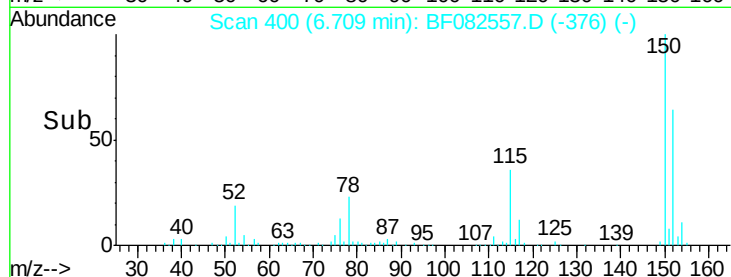
115 56.3 39.0 58.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 125.87 ng

RT: 5.33 min Scan# 279

Delta R.T. 0.01 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

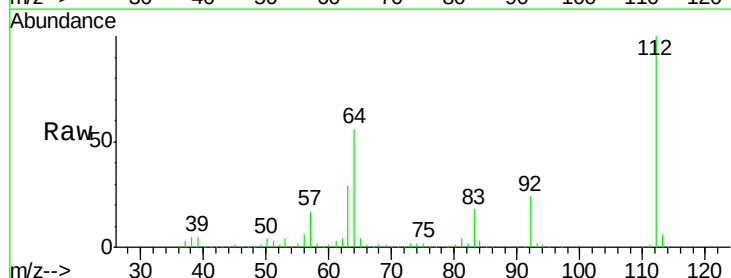
Tgt Ion:112 Resp: 536860

Ion Ratio Lower Upper

112 100

64 55.6 49.0 73.4

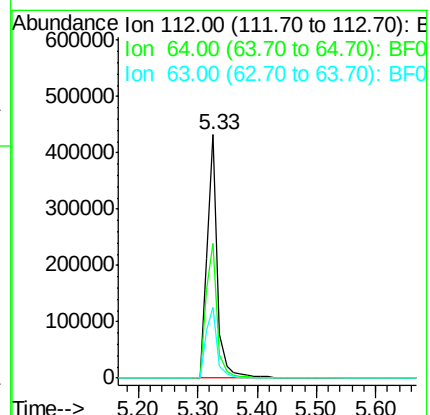
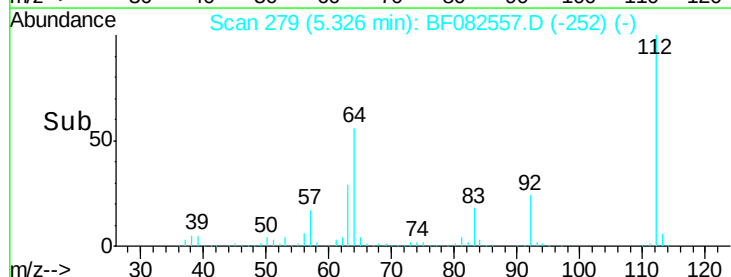
63 29.2 25.8 38.6

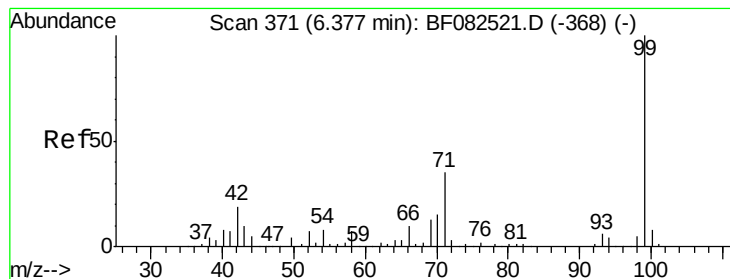


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 118.43 ng

RT: 6.38 min Scan# 371

Delta R.T. 0.00 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampled :

WOOD-2

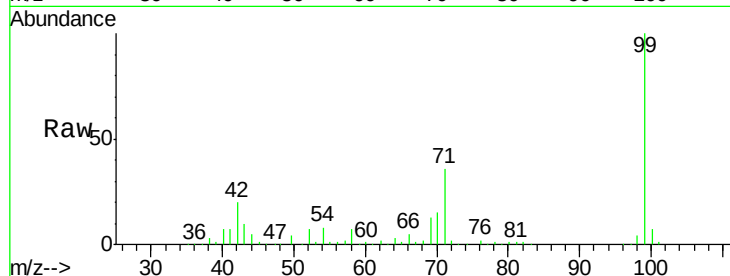
Tgt Ion: 99 Resp: 658317

Ion Ratio Lower Upper

99 100

42 19.5 15.1 22.7

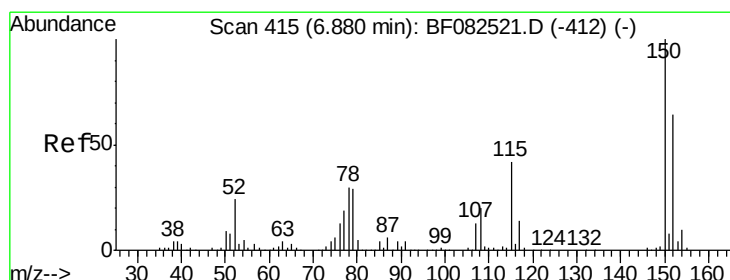
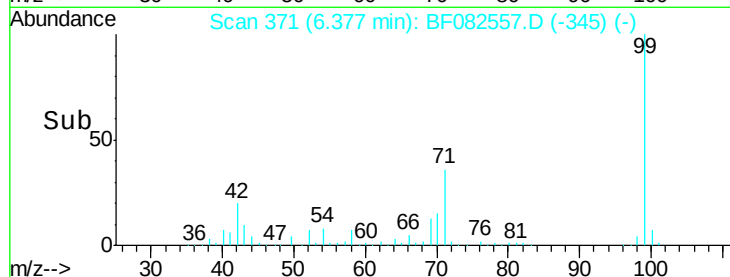
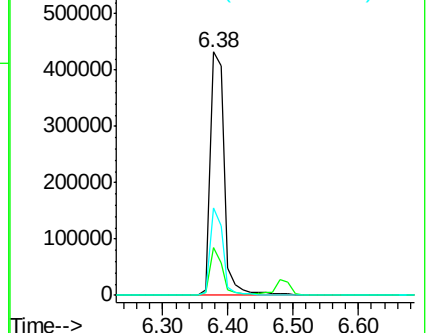
71 36.0 28.2 42.2



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#15

Benzyl Alcohol

Concen: 2.55 ng

RT: 6.87 min Scan# 414

Delta R.T. -0.01 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

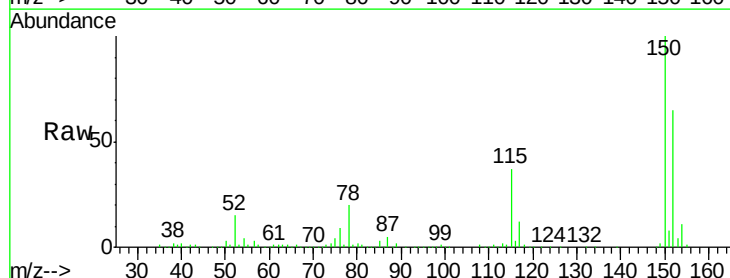
Tgt Ion: 79 Resp: 9881

Ion Ratio Lower Upper

79 100

108 57.0 55.0 82.6

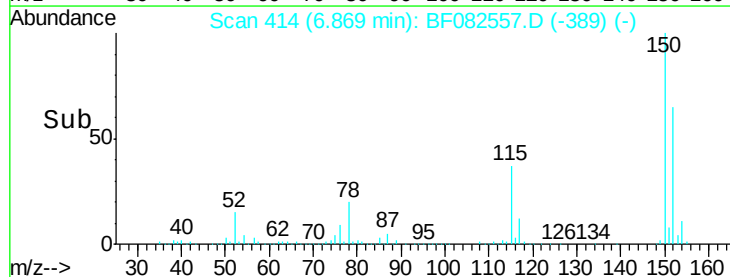
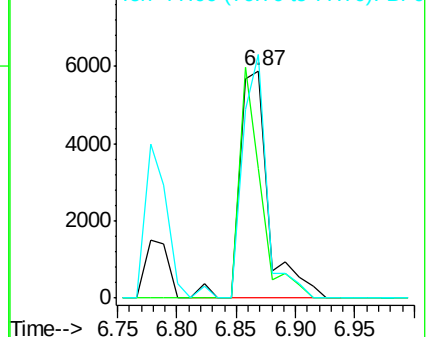
77 107.1 52.5 78.7#

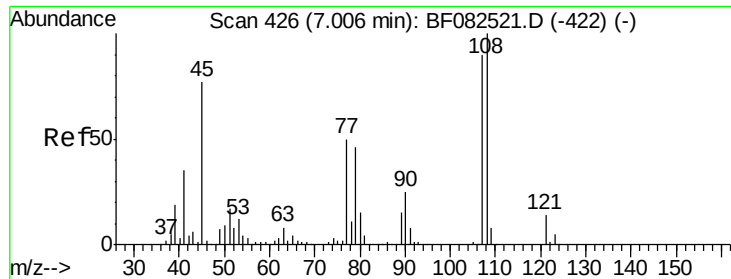


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0





#17

2-Methylphenol

Concen: 21.88 ng

RT: 7.17 min Scan# 440

Delta R.T. 0.16 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

Tgt Ion:107 Resp: 87774

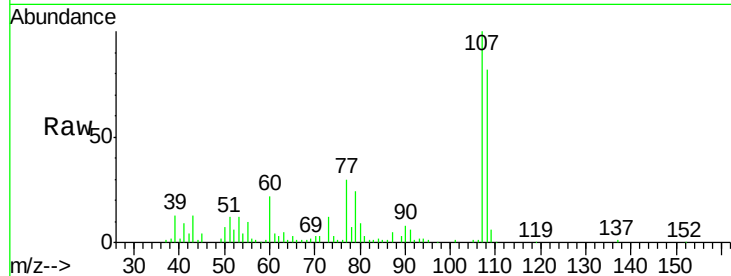
Ion Ratio Lower Upper

107 100

108 81.8 89.4 134.2#

77 29.6 44.8 67.2#

79 24.3 42.1 63.1#

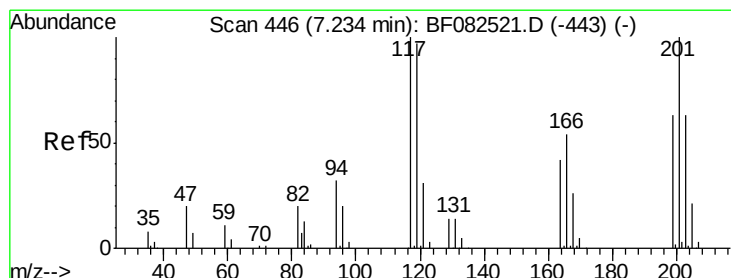
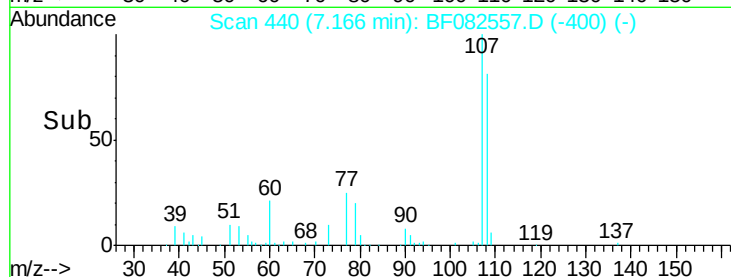
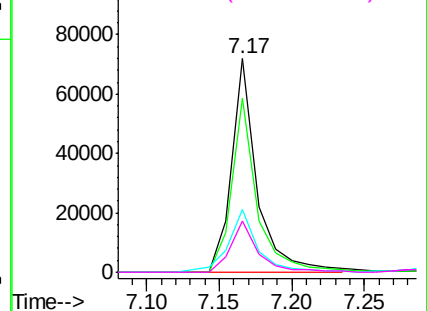


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#18

Hexachloroethane

Concen: 4.20 ng

RT: 7.29 min Scan# 451

Delta R.T. 0.06 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

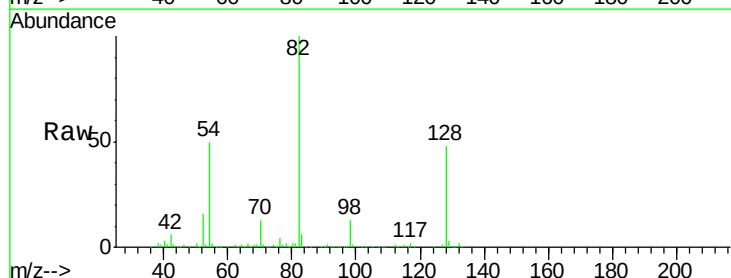
Tgt Ion:117 Resp: 8775

Ion Ratio Lower Upper

117 100

119 0.0 77.5 116.3#

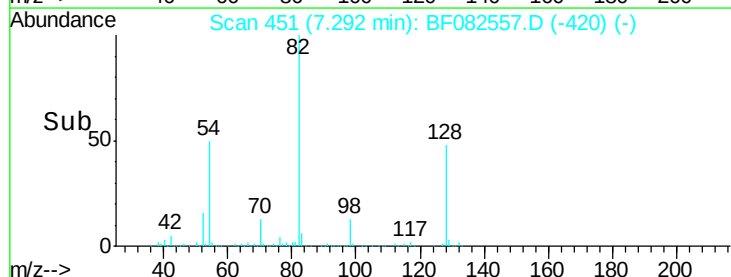
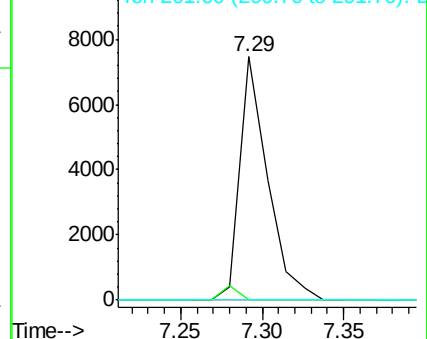
201 0.0 80.1 120.1#

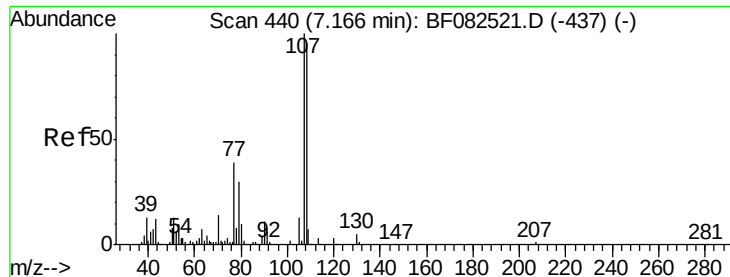


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

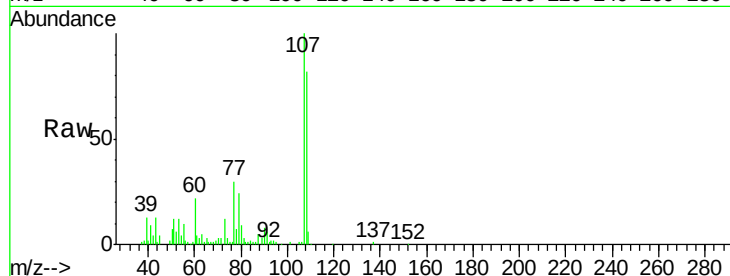




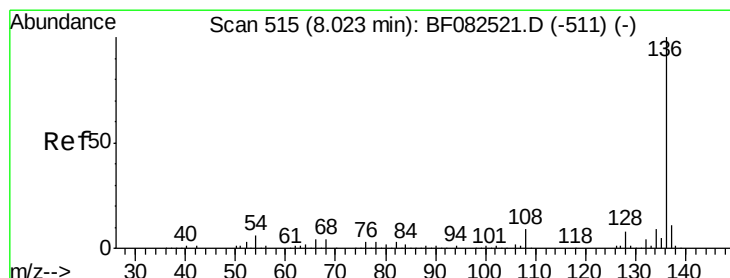
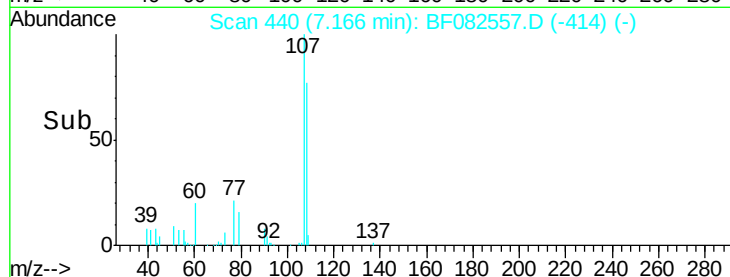
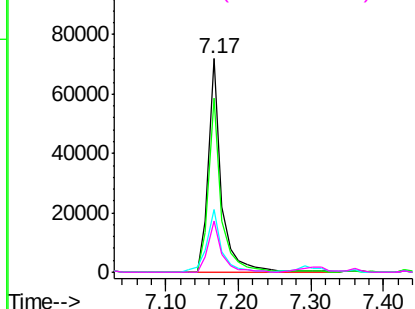
#20  
3+4-Methylphenols  
Concen: 17.70 ng  
RT: 7.17 min Scan# 440  
Delta R.T. 0.00 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 90726 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 81.8  | 74.8  | 114.8 |
| 77       | 29.6  | 20.3  | 60.3  |
| 79       | 24.3  | 10.2  | 50.2  |

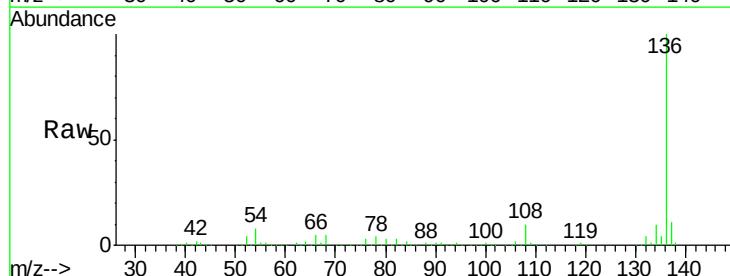


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF0  
Ion 79.00 (78.70 to 79.70): BF0

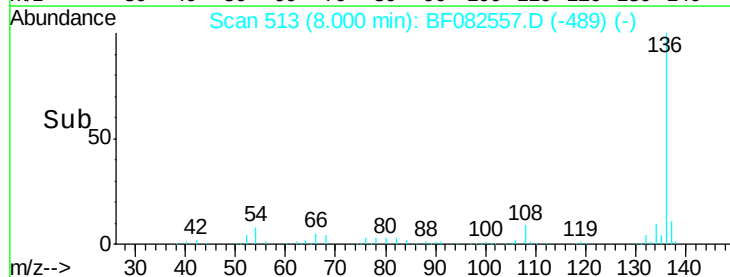
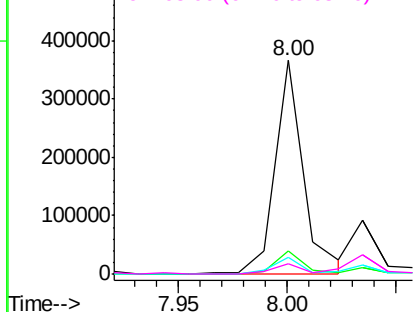


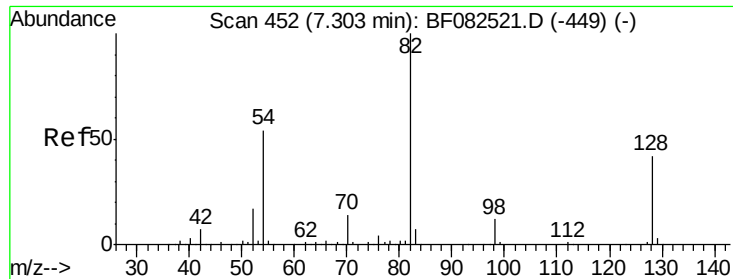
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 513  
Delta R.T. -0.02 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 333498 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.6   | 13.0   |
| 54       | 7.8   | 4.6   | 7.0#   |
| 68       | 4.9   | 3.2   | 4.8#   |



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

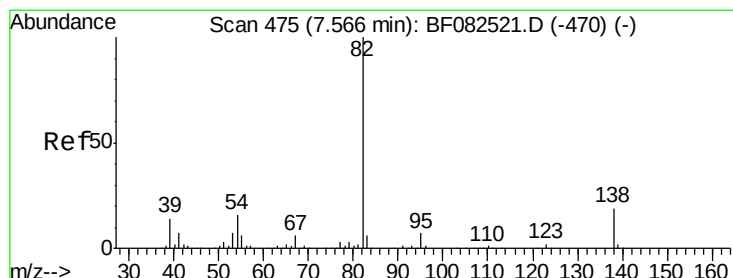
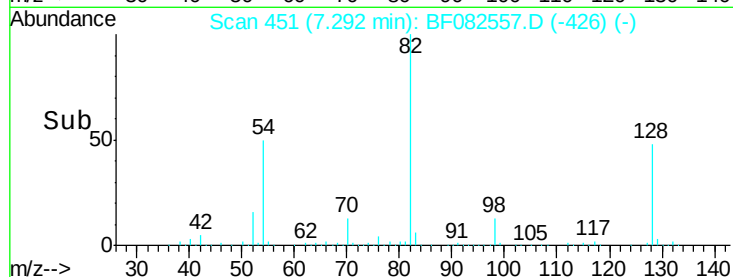
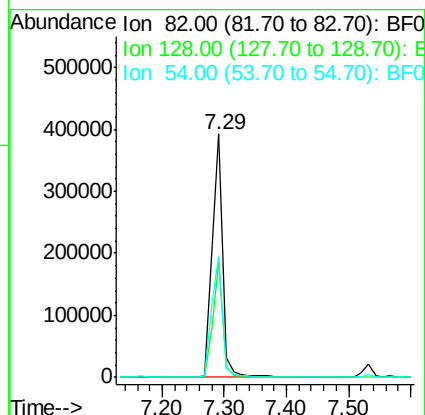
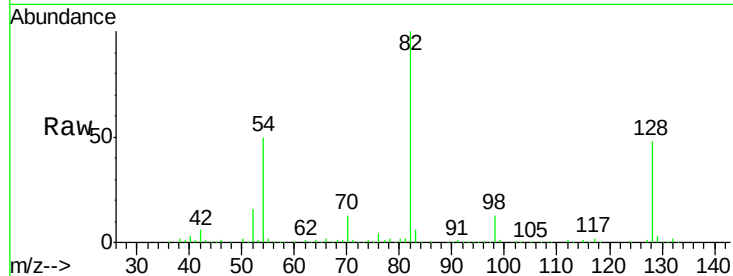




#23  
Nitrobenzene-d5  
Concen: 89.73 ng  
RT: 7.29 min Scan# 451  
Delta R.T. -0.01 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

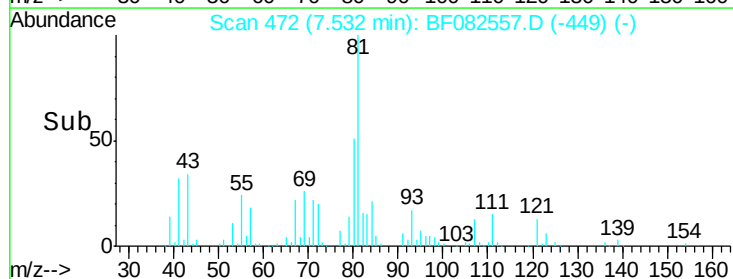
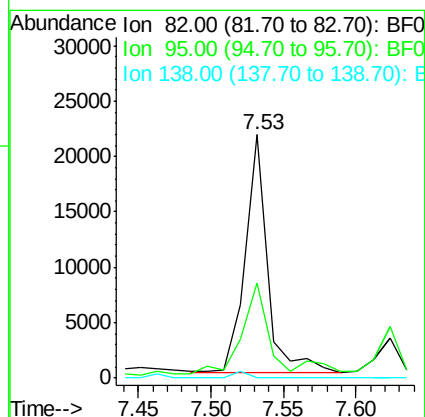
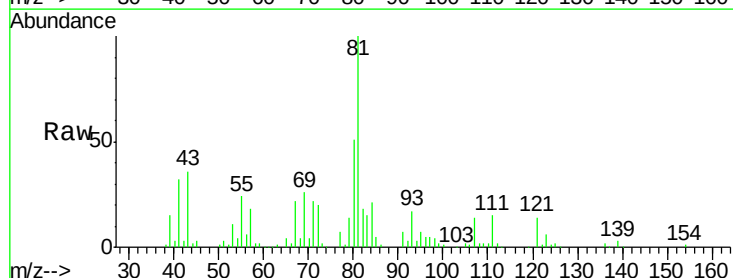
Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

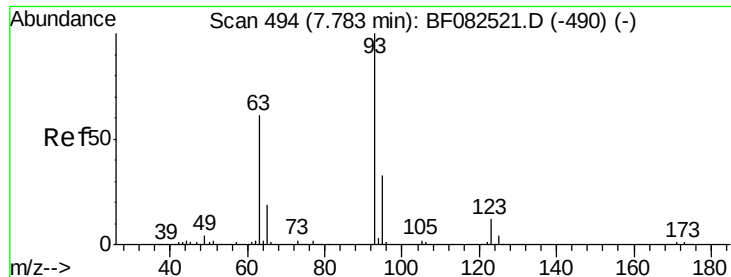
Tgt Ion: 82 Resp: 463856  
Ion Ratio Lower Upper  
82 100  
128 47.7 33.4 50.0  
54 49.6 43.5 65.3



#25  
Isophorone  
Concen: 2.20 ng  
RT: 7.53 min Scan# 472  
Delta R.T. -0.03 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

Tgt Ion: 82 Resp: 22605  
Ion Ratio Lower Upper  
82 100  
95 39.3 5.7 8.5#  
138 0.0 15.0 22.4#

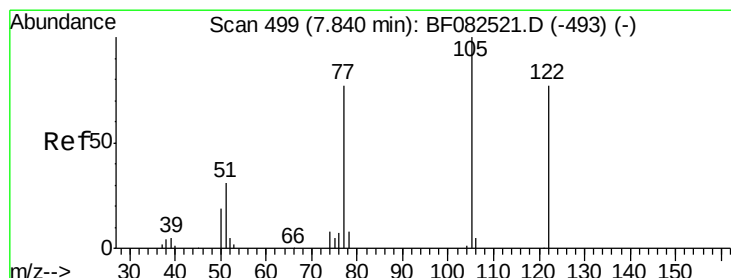
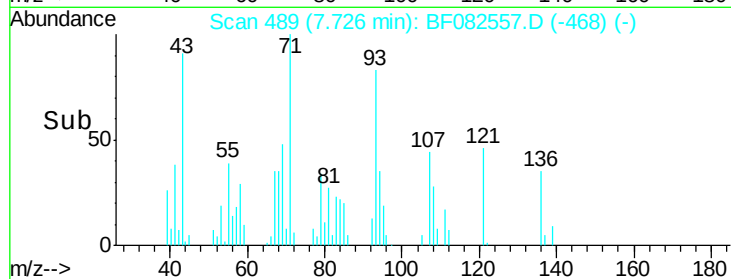
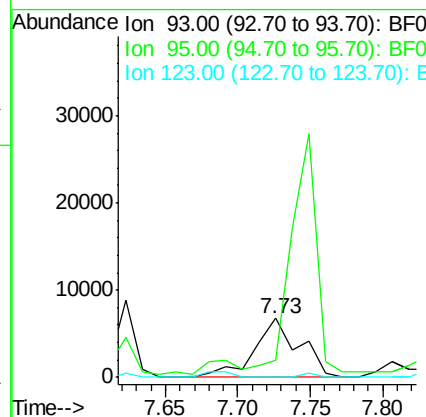
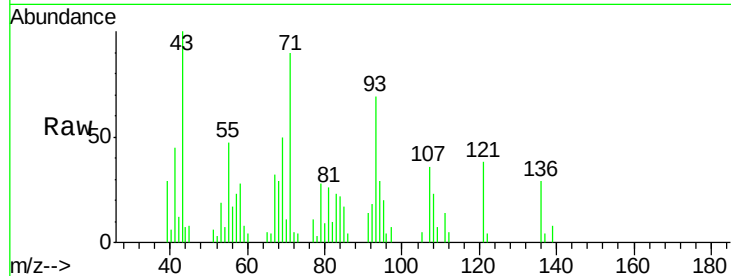




#28  
bis(2-Chloroethoxy)methane  
Concen: 2.40 ng  
RT: 7.73 min Scan# 489  
Delta R.T. -0.06 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

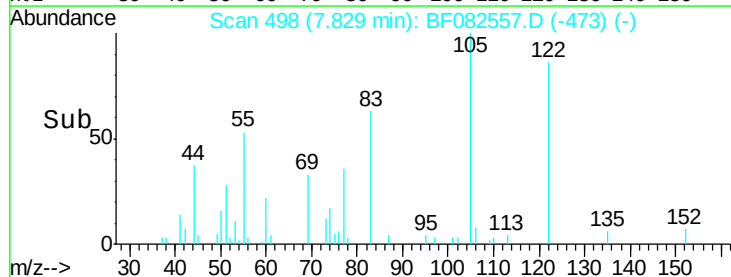
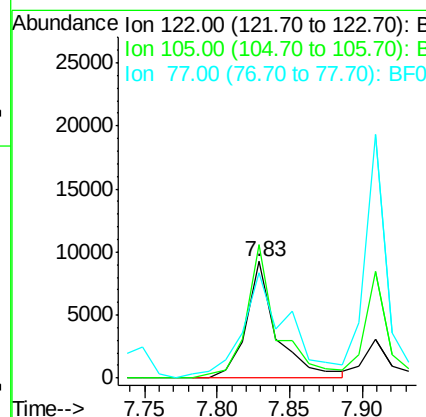
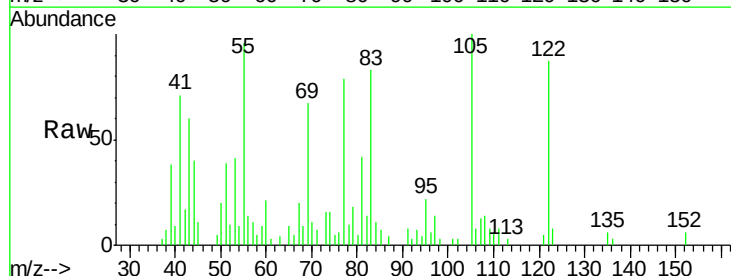
Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

Tgt Ion: 93 Resp: 14480  
Ion Ratio Lower Upper  
93 100  
95 29.1 26.2 39.2  
123 0.0 9.3 13.9#

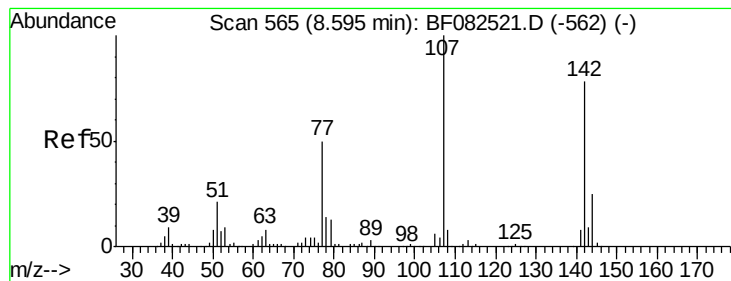


#32  
Benzoic acid  
Concen: 5.33 ng  
RT: 7.83 min Scan# 498  
Delta R.T. -0.01 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

Tgt Ion: 122 Resp: 13526  
Ion Ratio Lower Upper  
122 100  
105 115.0 106.4 146.4  
77 90.9 79.1 119.1



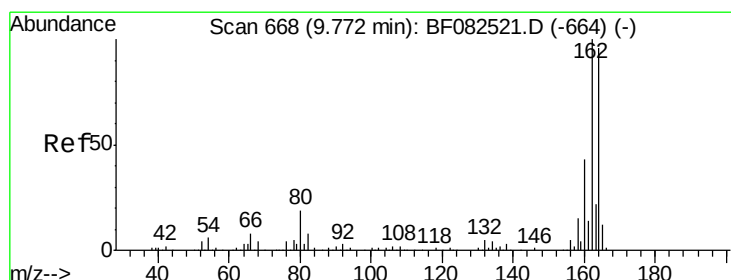
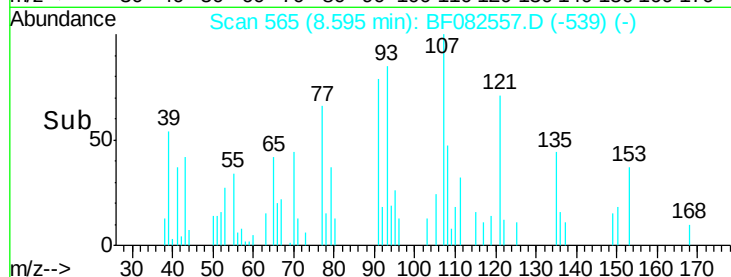
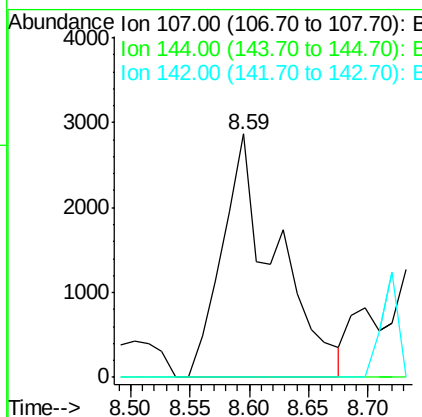
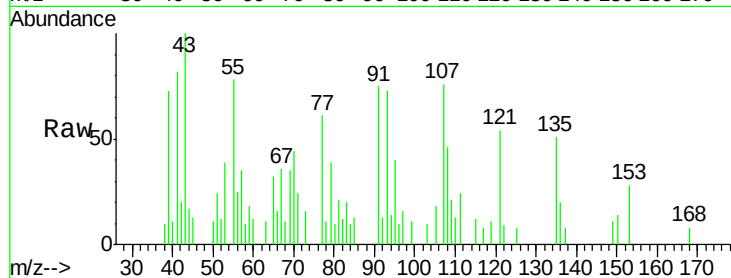




#36  
4-Chloro-3-methylphenol  
Concen: 2.06 ng  
RT: 8.59 min Scan# 565  
Delta R.T. 0.00 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

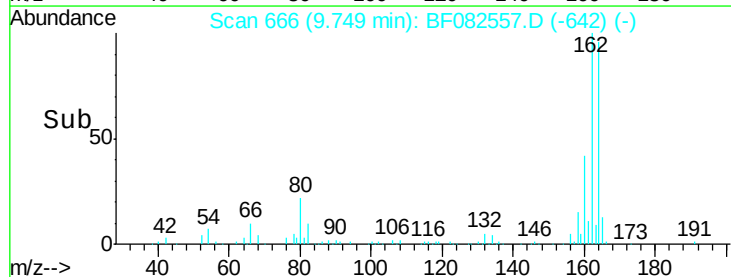
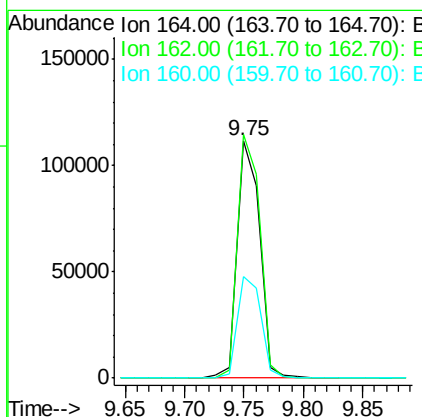
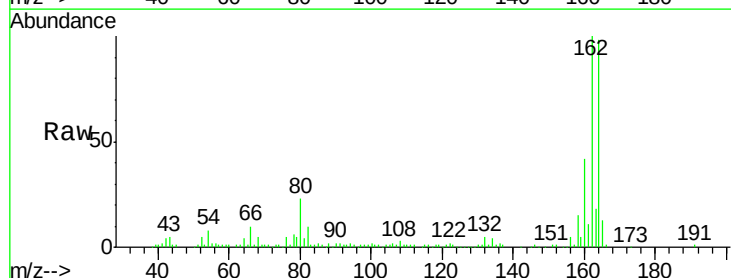
Instrument :  
BNA\_F  
ClientSampled :  
WOOD-2

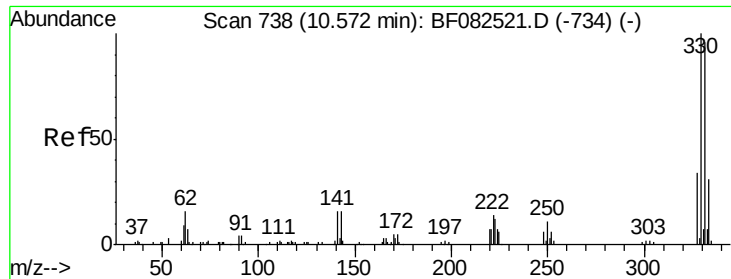
Tgt Ion:107 Resp: 9034  
Ion Ratio Lower Upper  
107 100  
144 0.0 20.2 30.2#  
142 0.0 62.6 93.8#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.75 min Scan# 666  
Delta R.T. -0.02 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

Tgt Ion:164 Resp: 147984  
Ion Ratio Lower Upper  
164 100  
162 102.5 83.6 125.4  
160 43.0 36.0 54.0

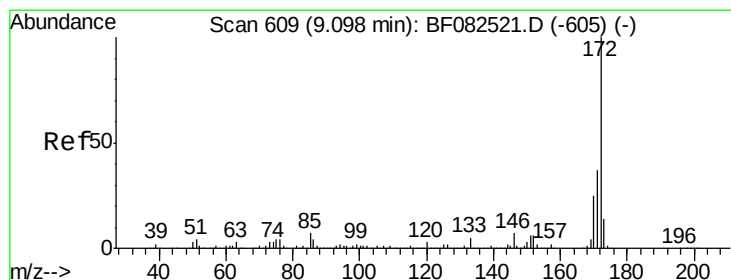
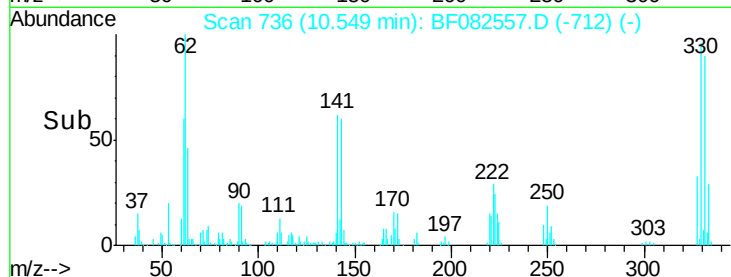
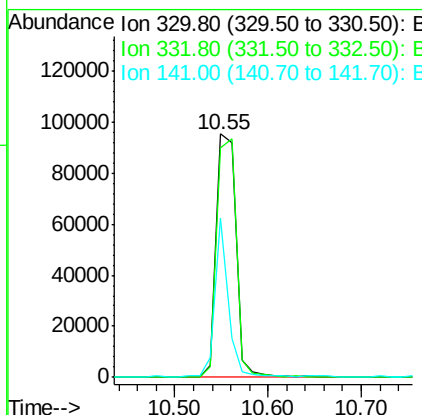
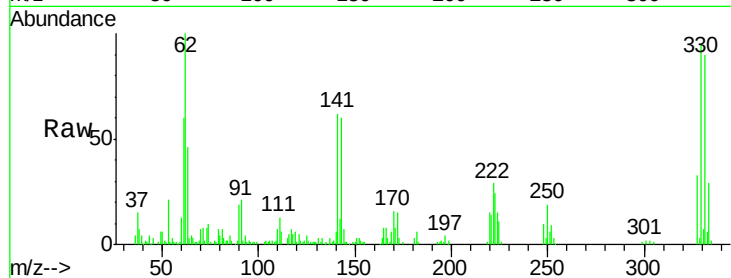




#41  
 2,4,6-Tribromophenol  
 Concen: 126.34 ng  
 RT: 10.55 min Scan# 736  
 Delta R.T. -0.02 min  
 Lab File: BF082557.D  
 Acq: 27 Oct 2015 20:15

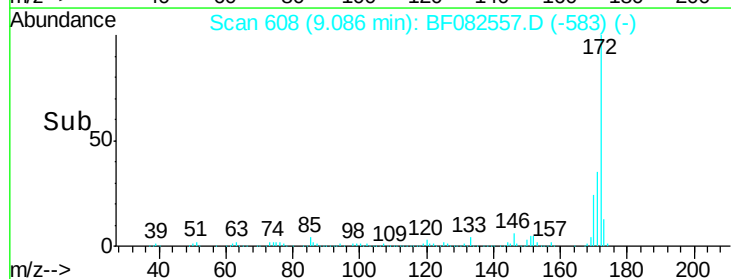
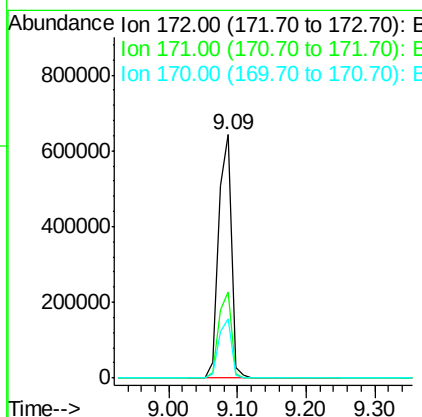
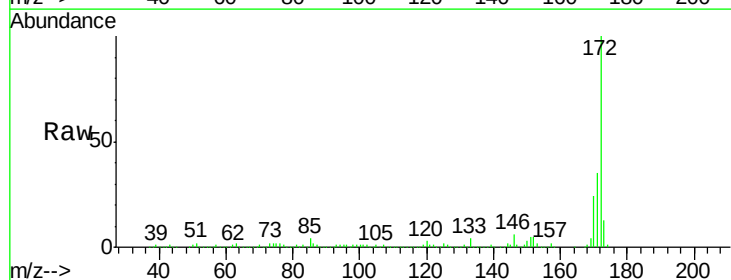
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WOOD-2

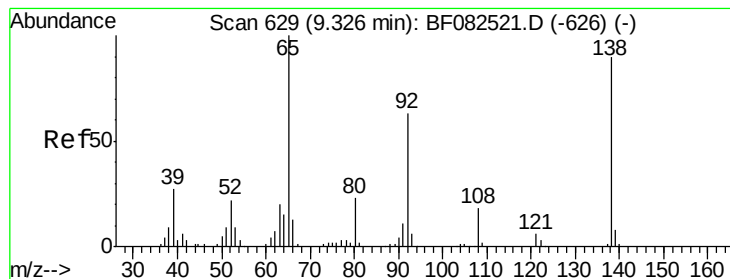
Tgt Ion:330 Resp: 140007  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 77.4 116.0  
 141 42.5 32.5 48.7



#44  
 2-Fluorobiphenyl  
 Concen: 91.46 ng  
 RT: 9.09 min Scan# 608  
 Delta R.T. -0.01 min  
 Lab File: BF082557.D  
 Acq: 27 Oct 2015 20:15

Tgt Ion:172 Resp: 851153  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 29.3 43.9  
 170 24.3 19.8 29.6





#47

2-Nitroaniline

Concen: 52.45 ng

RT: 9.27 min Scan# 624

Delta R.T. -0.06 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

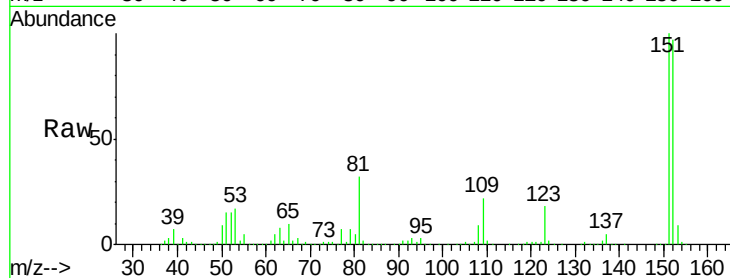
Tgt Ion: 65 Resp: 132232

Ion Ratio Lower Upper

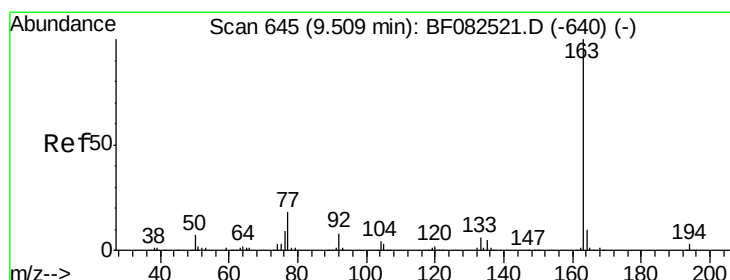
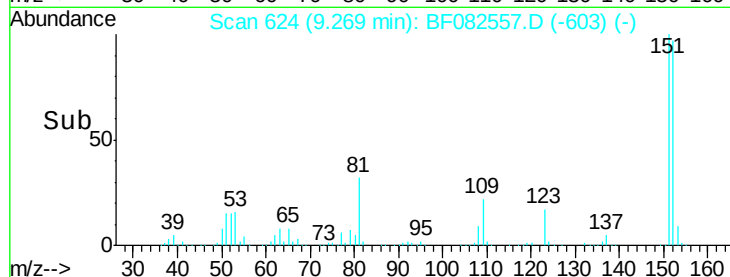
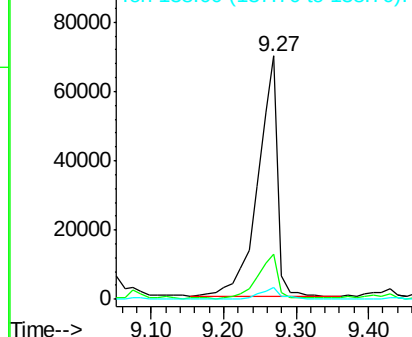
65 100

92 18.4 50.6 76.0#

138 4.7 71.8 107.6#



Abundance Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#49

Dimethylphthalate

Concen: 7.22 ng

RT: 9.49 min Scan# 643

Delta R.T. -0.02 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

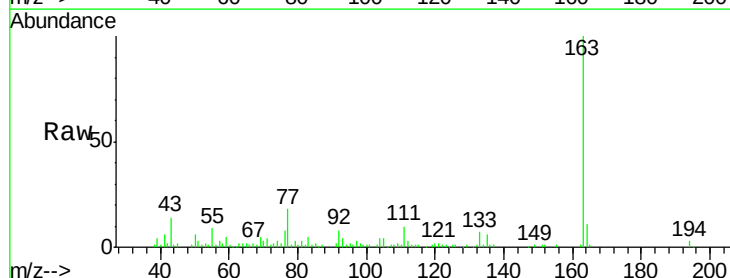
Tgt Ion: 163 Resp: 74324

Ion Ratio Lower Upper

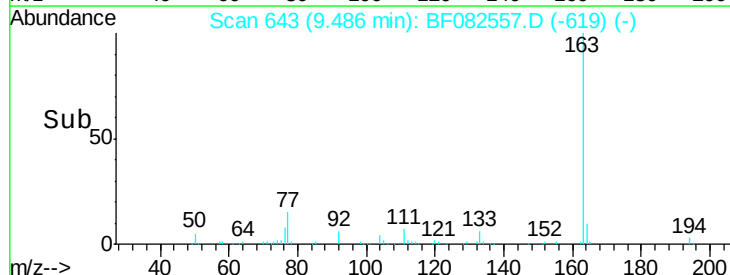
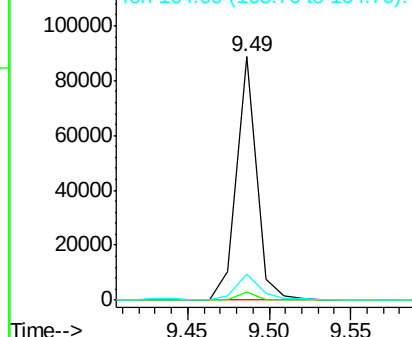
163 100

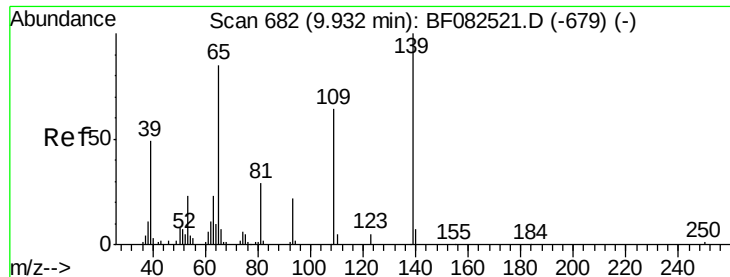
194 3.2 2.8 4.2

164 10.5 8.2 12.4



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





#55

4-Nitrophenol

Concen: 10.81 ng

RT: 9.94 min Scan# 683

Delta R.T. 0.01 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

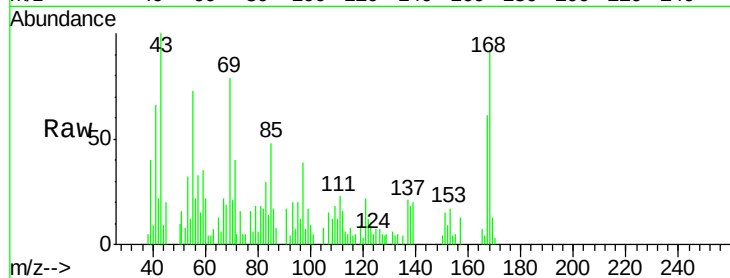
Tgt Ion:139 Resp: 3928

Ion Ratio Lower Upper

139 100

109 90.7 44.2 84.2#

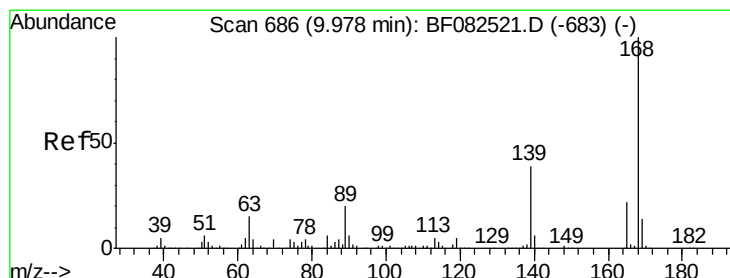
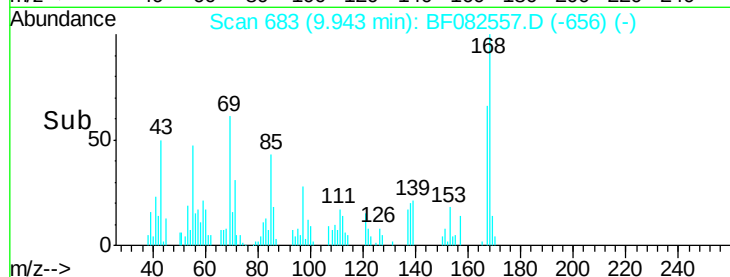
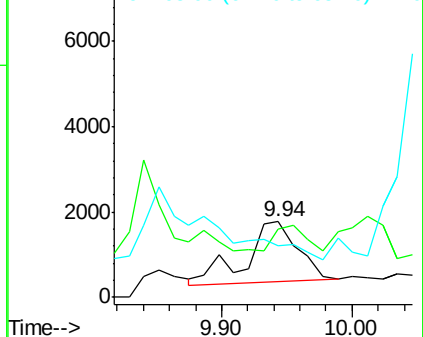
65 68.5 68.1 108.1



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): E



#56

2,4-Dinitrotoluene

Concen: 2.14 ng

RT: 9.90 min Scan# 679

Delta R.T. -0.08 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Tgt Ion:165 Resp: 5862

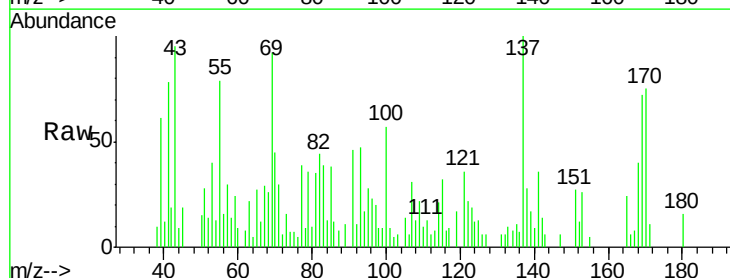
Ion Ratio Lower Upper

165 100

63 92.4 58.6 88.0#

89 44.8 72.3 108.5#

182 0.0 1.8 2.8#

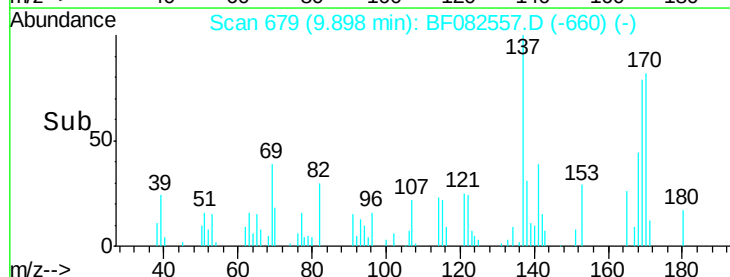
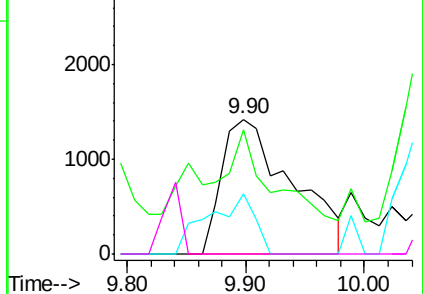


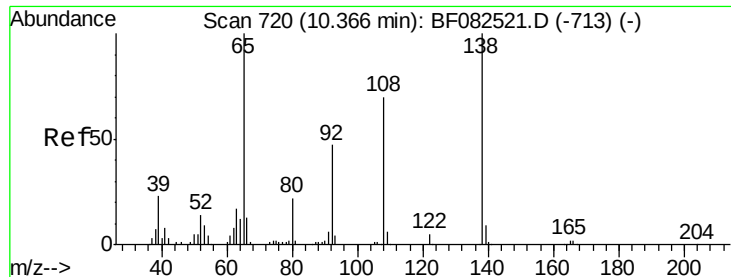
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#61

4-Nitroaniline

Concen: 35.39 ng

RT: 10.50 min Scan# 732

Delta R.T. 0.14 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

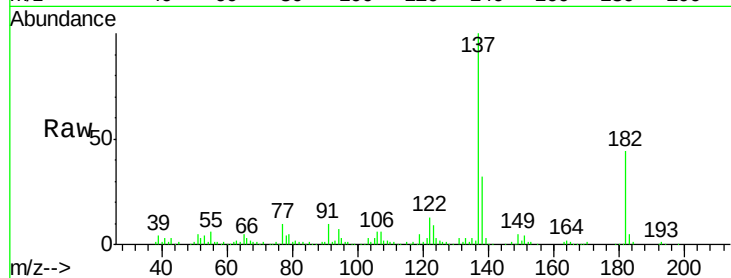
Tgt Ion:138 Resp: 86824

Ion Ratio Lower Upper

138 100

92 3.6 27.3 67.3#

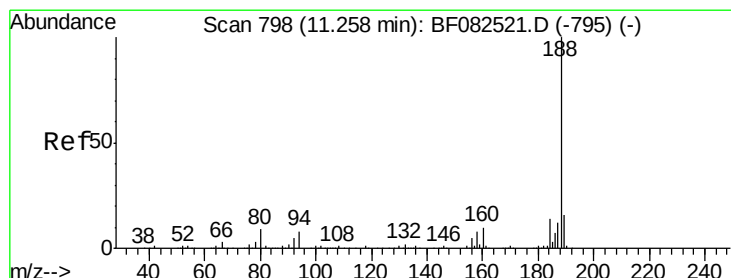
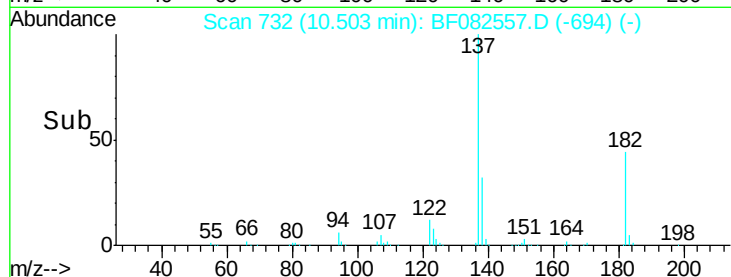
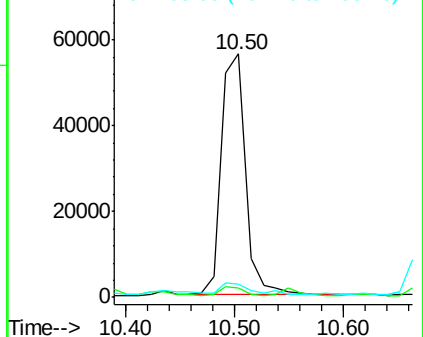
108 5.2 49.8 89.8#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.23 min Scan# 796

Delta R.T. -0.02 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

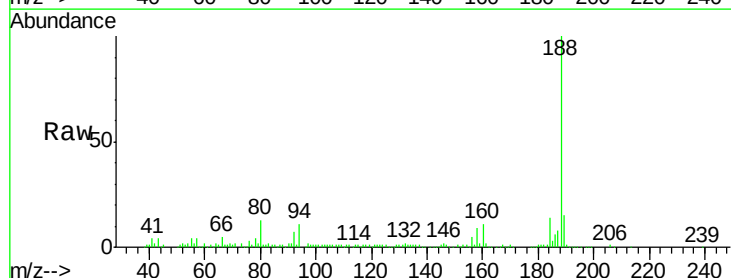
Tgt Ion:188 Resp: 249707

Ion Ratio Lower Upper

188 100

94 11.4 6.4 9.6#

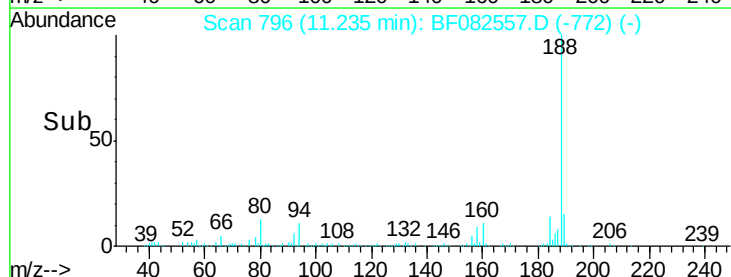
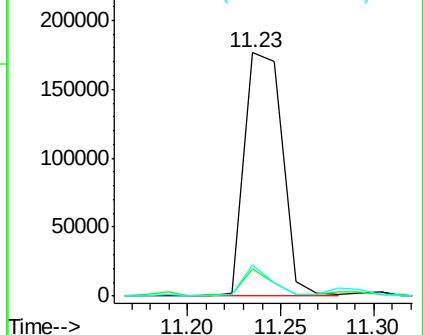
80 13.0 7.0 10.6#

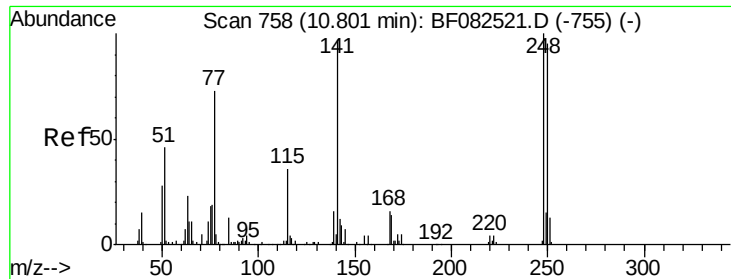


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

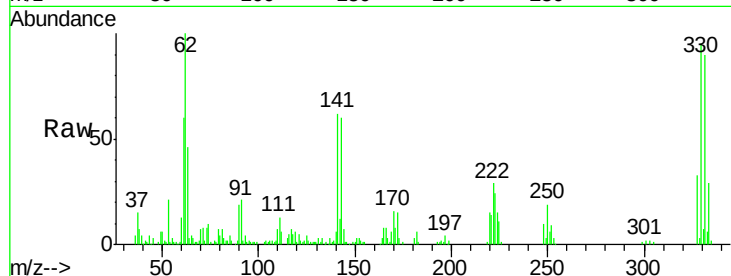




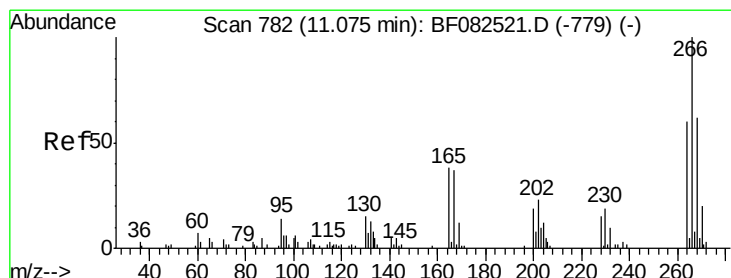
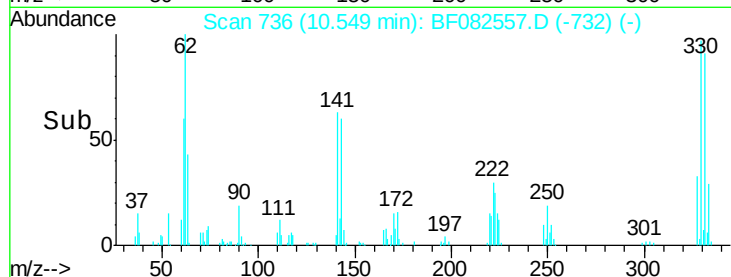
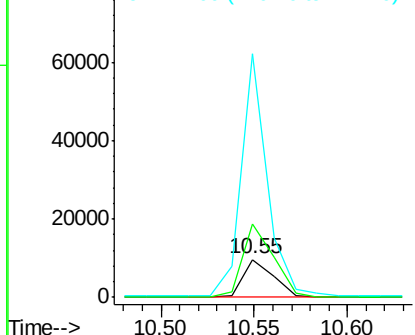
#66  
4-Bromophenyl-phenylether  
Concen: 4.69 ng  
RT: 10.55 min Scan# 736  
Delta R.T. -0.25 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

Tgt Ion:248 Resp: 10998  
Ion Ratio Lower Upper  
248 100  
250 191.2 76.0 114.0#  
141 639.9 77.5 116.3#

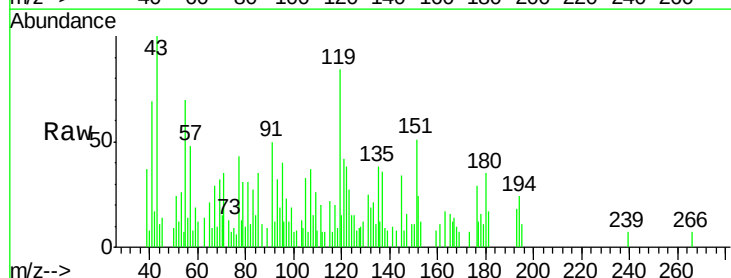


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

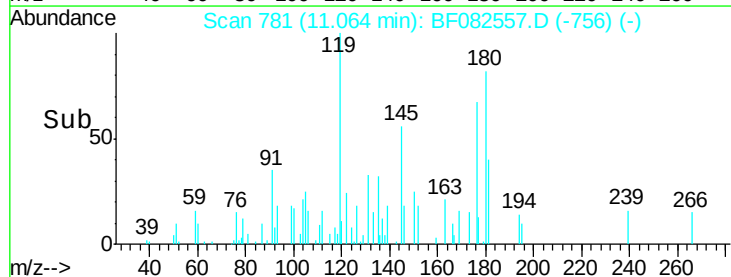
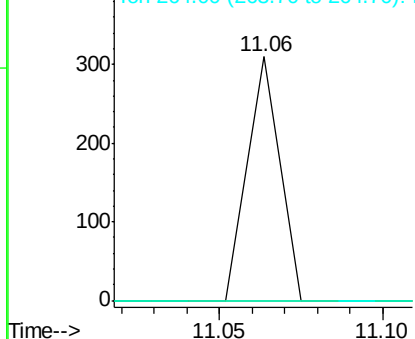


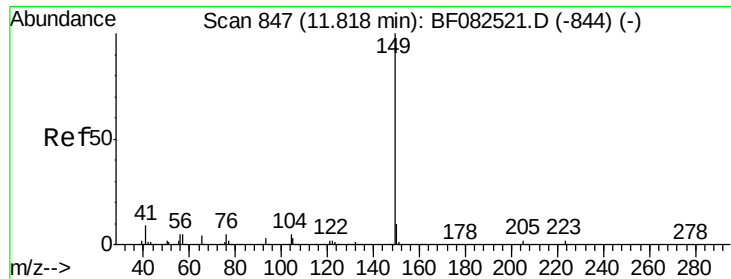
#69  
Pentachlorophenol  
Concen: 7.52 ng  
RT: 11.06 min Scan# 781  
Delta R.T. -0.01 min  
Lab File: BF082557.D  
Acq: 27 Oct 2015 20:15

Tgt Ion:266 Resp: 213  
Ion Ratio Lower Upper  
266 100  
268 0.0 49.5 74.3#  
264 0.0 48.0 72.0#



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





#73

Di-n-butylphthalate

Concen: 4.43 ng

RT: 12.00 min Scan# 863

Delta R.T. 0.18 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

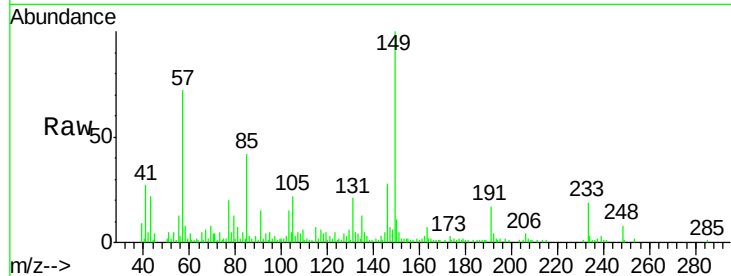
Tgt Ion:149 Resp: 60371

Ion Ratio Lower Upper

149 100

150 11.2 7.8 11.6

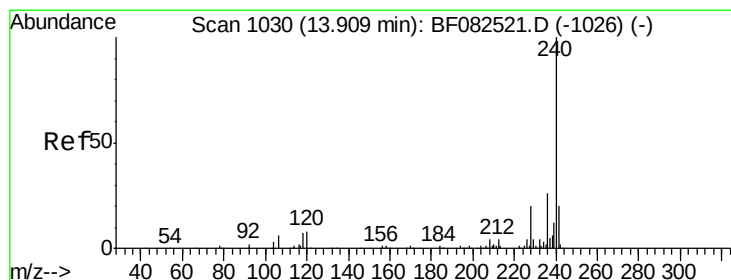
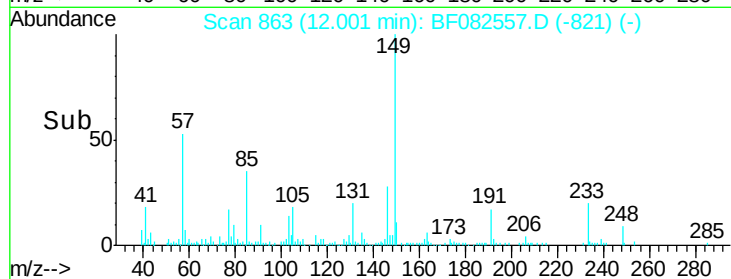
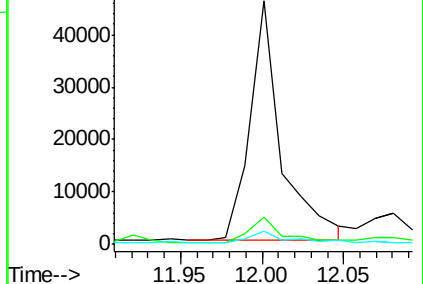
104 5.4 4.2 6.4



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1028

Delta R.T. -0.02 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

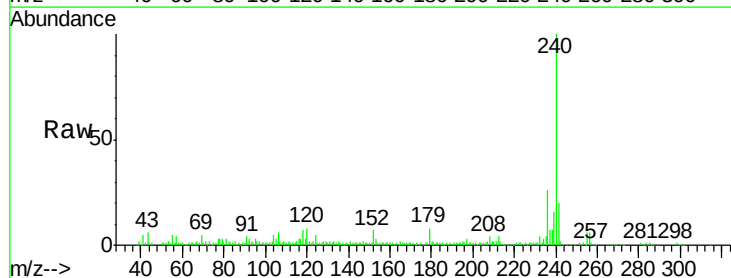
Tgt Ion:240 Resp: 166301

Ion Ratio Lower Upper

240 100

120 8.2 6.5 9.7

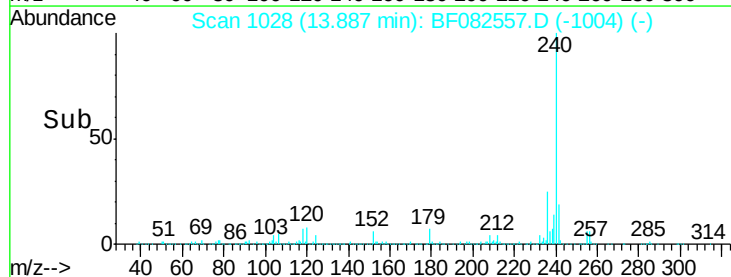
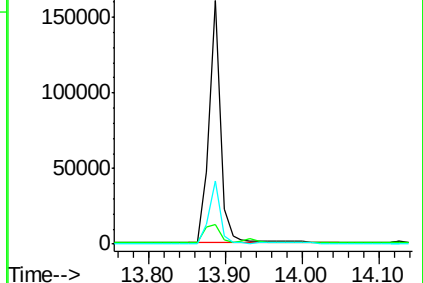
236 25.8 20.5 30.7

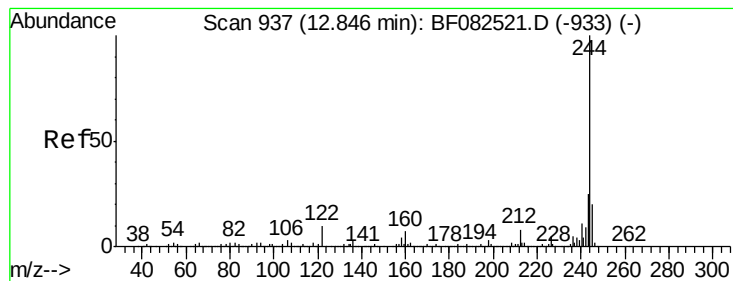


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 101.86 ng

RT: 12.82 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

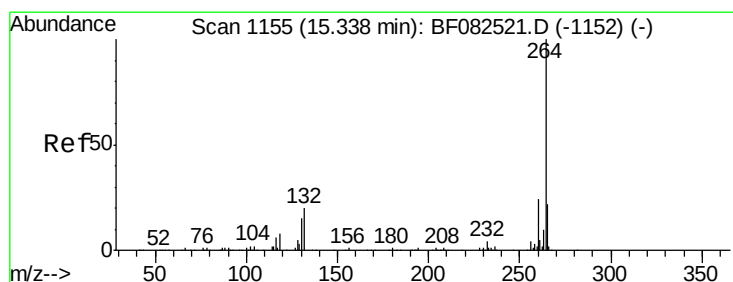
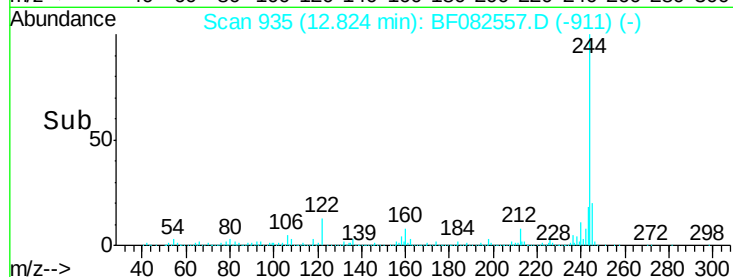
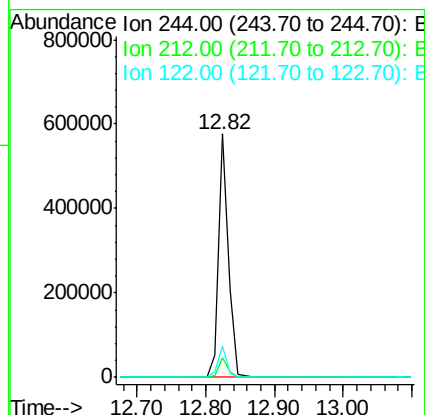
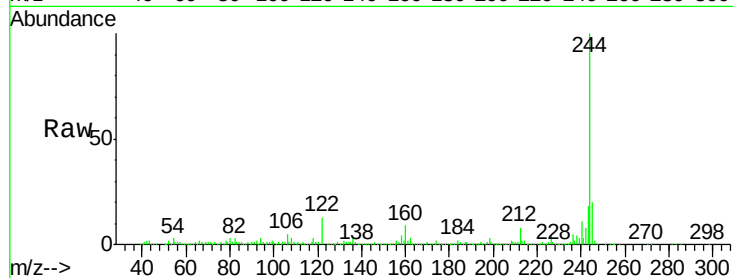
Tgt Ion:244 Resp: 587995

Ion Ratio Lower Upper

244 100

212 8.2 6.4 9.6

122 12.9 8.1 12.1#



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.32 min Scan# 1153

Delta R.T. -0.02 min

Lab File: BF082557.D

Acq: 27 Oct 2015 20:15

Tgt Ion:264 Resp: 166974

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.6

265 21.9 17.8 26.6

