

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
 Data File : BF113027.D  
 Acq On : 13 Mar 2019 9:21  
 Operator : JU/SJ  
 Sample : K1834-21  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 13 12:27:41 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

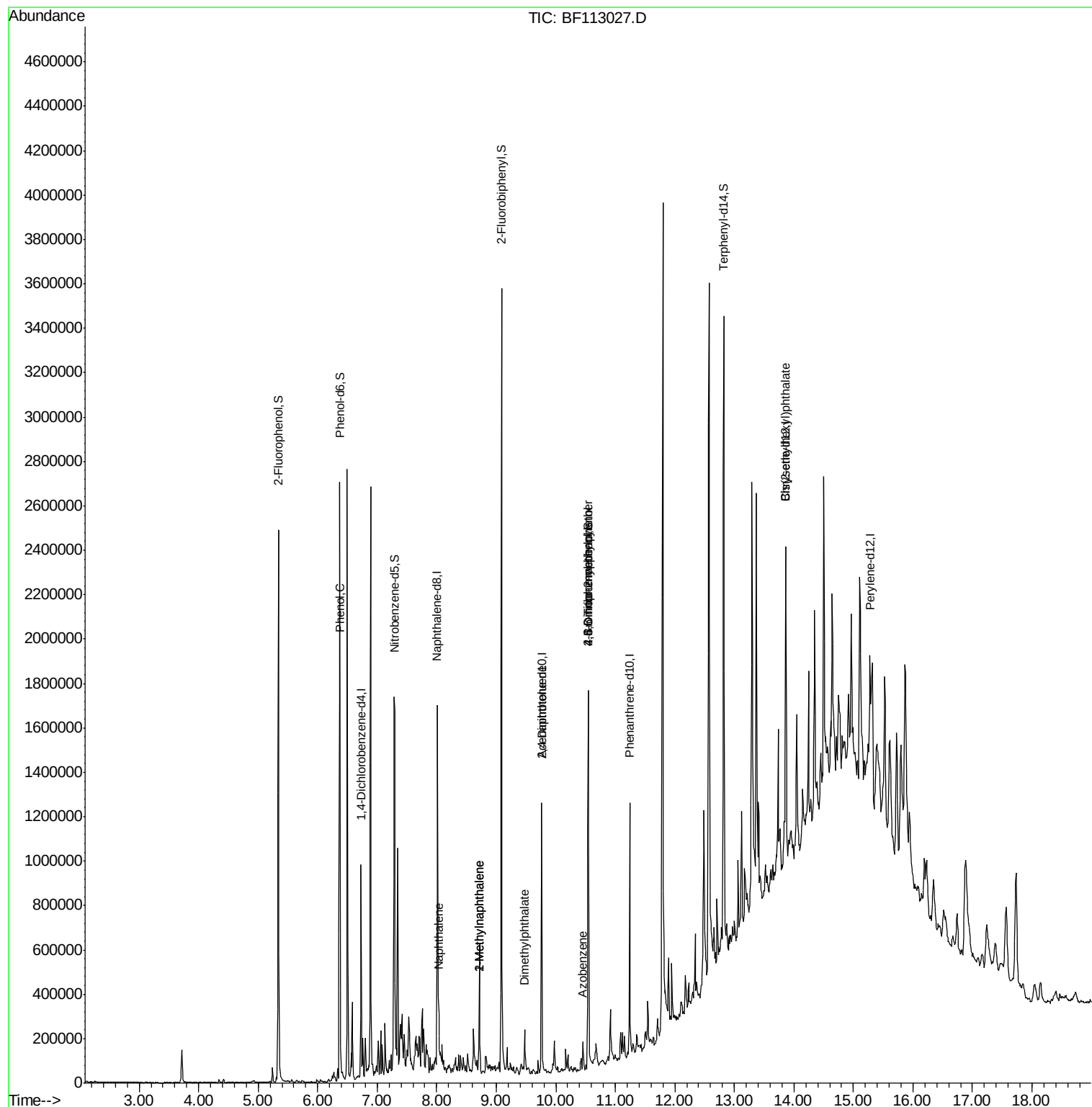
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 151874   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.01  | 136  | 592588   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.76  | 164  | 252669   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.24 | 188  | 429202   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.87 | 240  | 404219   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.27 | 264  | 297603   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.35  | 112  | 787385   | 80.65  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.37  | 99   | 986391   | 80.43  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 585305   | 59.10  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.55 | 330  | 240698   | 89.73  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.09  | 172  | 1138197  | 71.59  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.82 | 244  | 1013275  | 48.59  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.38  | 94   | 35890    | 2.508  | ng    | 98       |
| 31) Naphthalene                | 8.03  | 128  | 84424    | 2.870  | ng    | 99       |
| 37) 2-Methylnaphthalene        | 8.73  | 142  | 38556    | 2.029  | ng    | 96       |
| 38) 1-Methylnaphthalene        | 8.73  | 142  | 38556    | 2.095  | ng    | 93       |
| 50) Dimethylphthalate          | 9.48  | 163  | 82229    | 4.414  | ng    | 98       |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 34213    | 7.094  | ng    | # 18     |
| 63) Azobenzene                 | 10.46 | 77   | 43616    | 2.164  | ng    | 95       |
| 65) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 148      | 4.689  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.55 | 248  | 13233    | 2.927  | ng    | # 1      |
| 84) Bis(2-ethylhexyl)phthalate | 13.86 | 149  | 179606   | 10.180 | ng    | 100      |

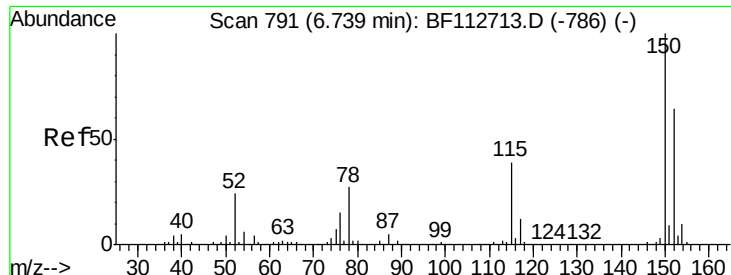
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\  
Data File : BF113027.D  
Acq On : 13 Mar 2019 9:21  
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Sample : K1834-21  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Mar 13 12:27:41 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 13 03:42:55 2019  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.73 min Scan# 790

Delta R.T. -0.00 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

Instrument :

BNA\_F

ClientSampleId :

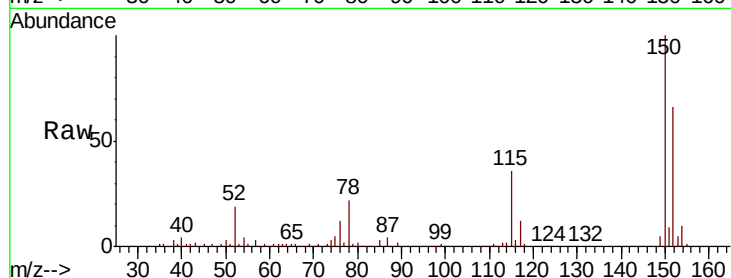
Tot Ion:152 Resp: 151874

Ion Ratio Lower Upper

152 100

150 151.2 124.2 186.2

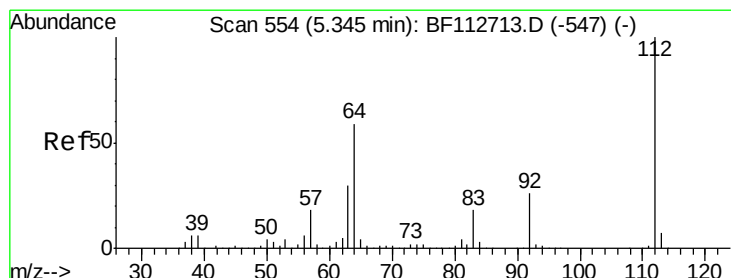
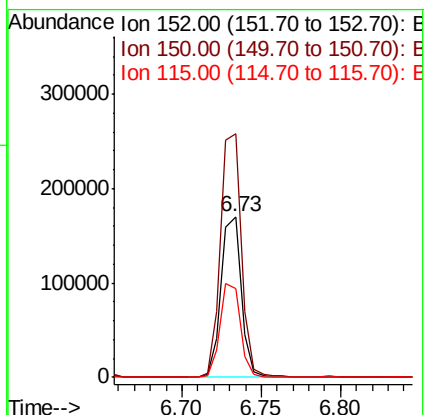
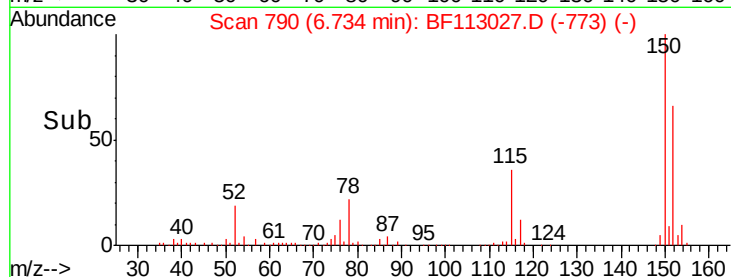
115 54.9 48.2 72.4



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: 80.647 ng

RT: 5.35 min Scan# 554

Delta R.T. -0.00 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

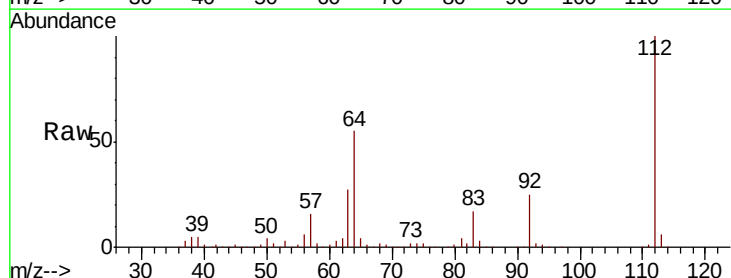
Tgt Ion:112 Resp: 787385

Ion Ratio Lower Upper

112 100

64 54.9 47.6 71.4

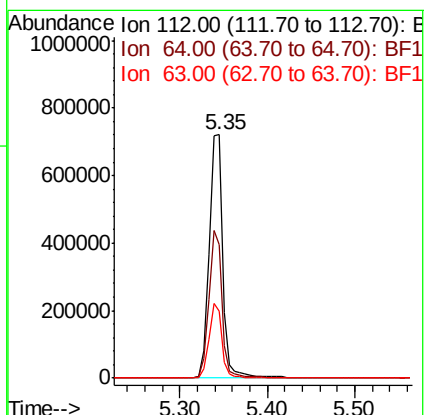
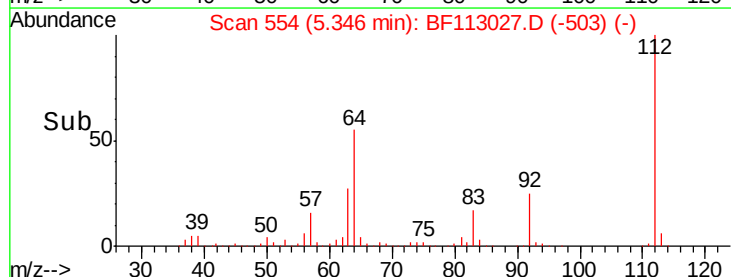
63 27.4 24.4 36.6

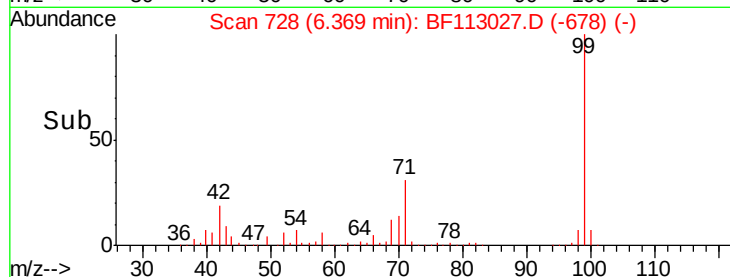
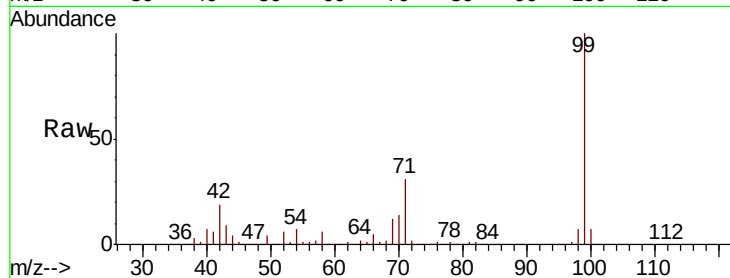
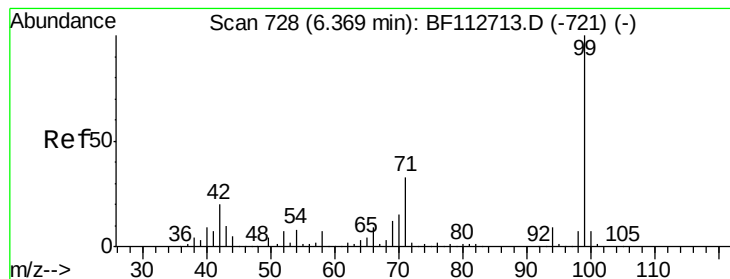


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 80.427 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

Instrument :

BNA\_F

ClientSampleId :

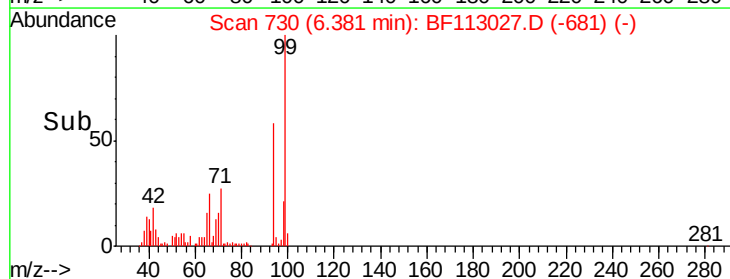
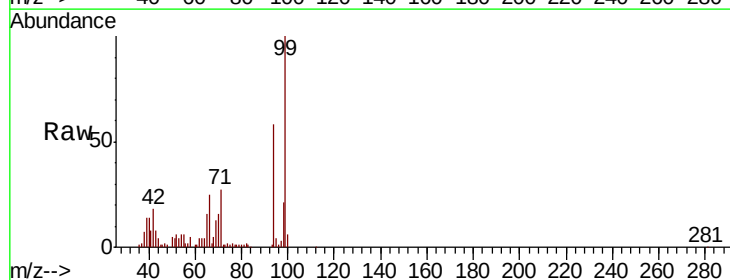
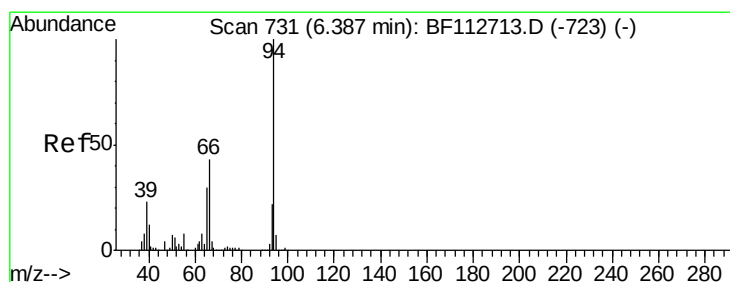
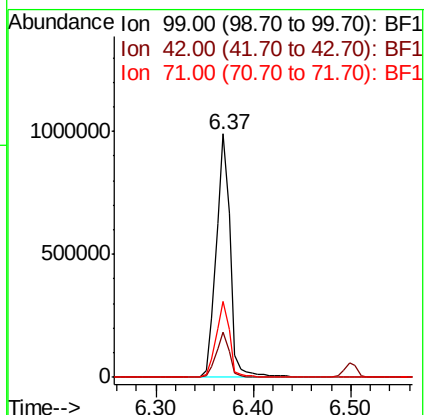
Tot Ion: 99 Resp: 986391

Ion Ratio Lower Upper

99 100

42 18.6 16.3 24.5

71 31.2 26.2 39.4



#10

Phenol

Concen: 2.508 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

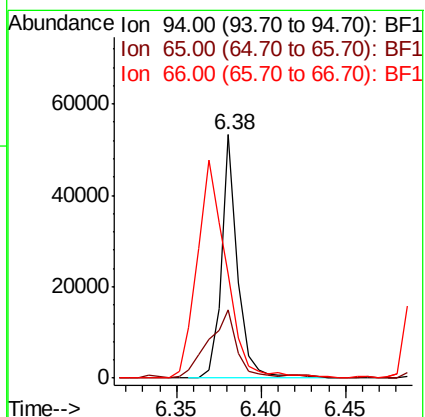
Tgt Ion: 94 Resp: 35890

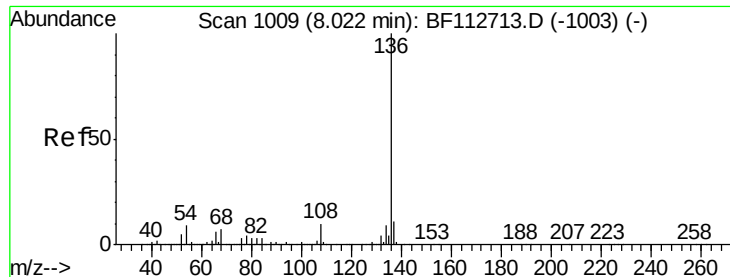
Ion Ratio Lower Upper

94 100

65 28.2 10.5 50.5

66 43.0 22.6 62.6

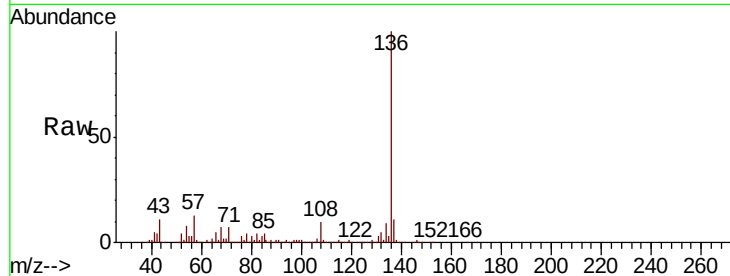




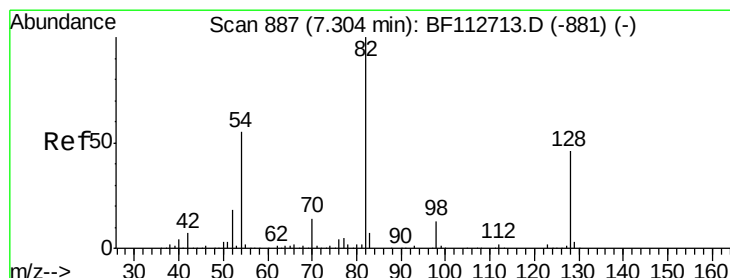
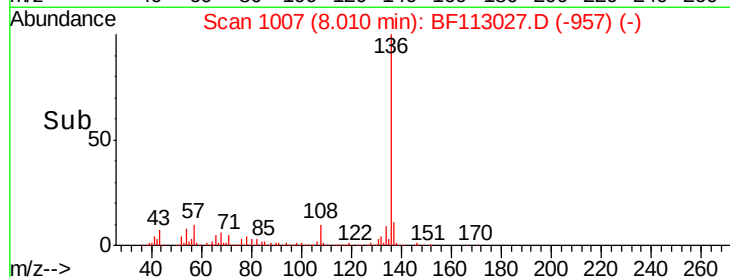
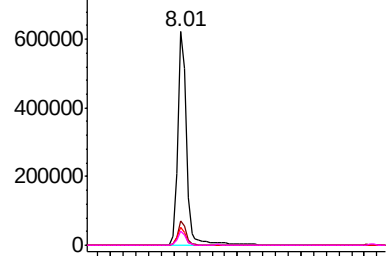
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF113027.D  
Acq: 13 Mar 2019 9:21

Instrument :  
BNA\_F  
ClientSampled :

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 592588 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.1    | 8.9 13.3     |
| 54 8.5      | 7.3 10.9     |
| 68 6.6      | 5.4 8.2      |

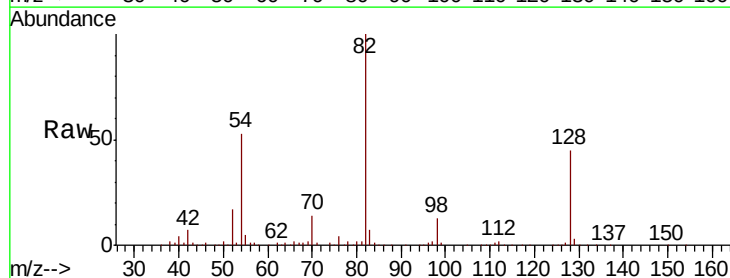


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

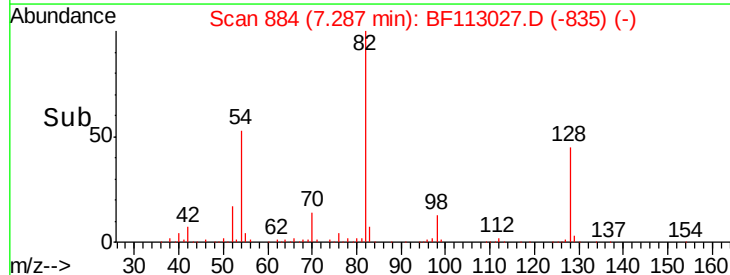
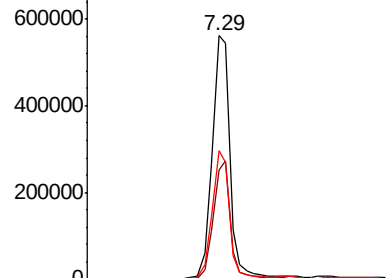


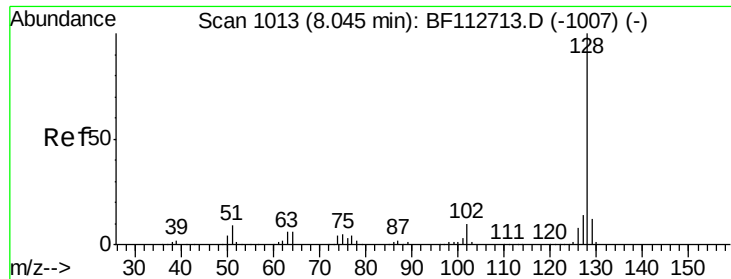
#23  
Nitrobenzene-d5  
Concen: 59.103 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF113027.D  
Acq: 13 Mar 2019 9:21

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 585305 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 45.0    | 36.3 54.5    |
| 54 52.9     | 43.7 65.5    |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

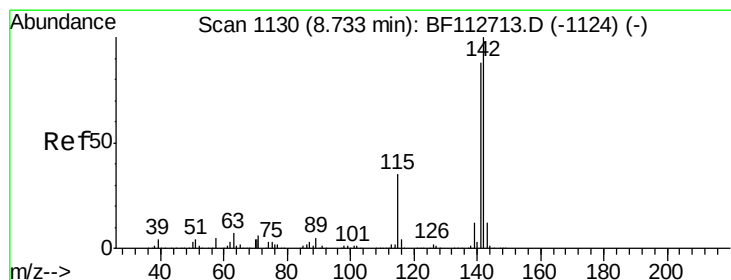
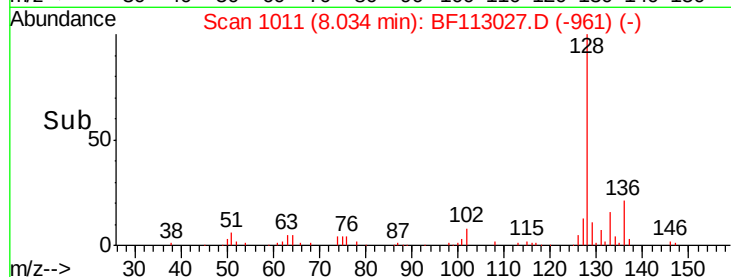
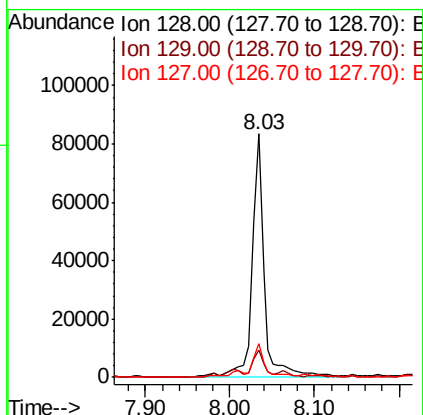
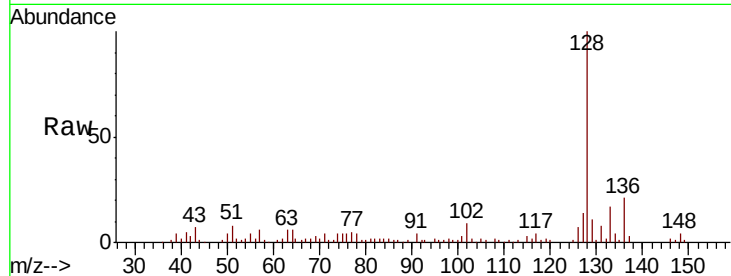




#31  
Naphthalene  
Concen: 2.870 ng  
RT: 8.03 min Scan# 1011  
Delta R.T. -0.01 min  
Lab File: BF113027.D  
Acq: 13 Mar 2019 9:21

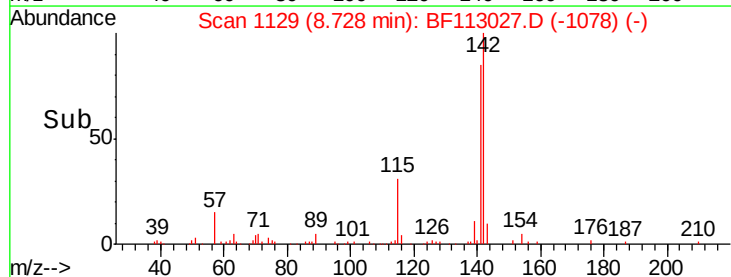
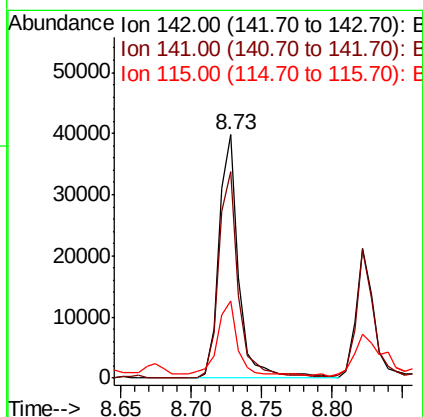
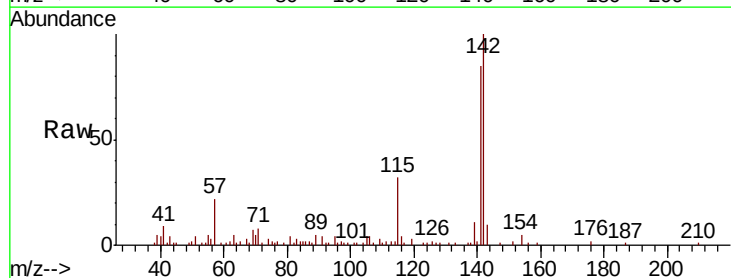
Instrument :  
BNA\_F  
ClientSampled :

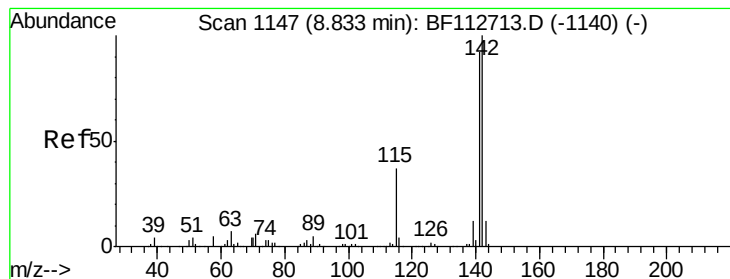
Tot Ion:128 Resp: 84424  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.3 13.9  
127 13.7 10.9 16.3



#37  
2-Methylnaphthalene  
Concen: 2.029 ng  
RT: 8.73 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BF113027.D  
Acq: 13 Mar 2019 9:21

Tgt Ion:142 Resp: 38556  
Ion Ratio Lower Upper  
142 100  
141 84.7 70.3 105.5  
115 31.6 27.8 41.6





#38

1-Methylnaphthalene

Concen: 2.095 ng

RT: 8.73 min Scan# 1129

Delta R.T. -0.10 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

Instrument :

BNA\_F

ClientSampled :

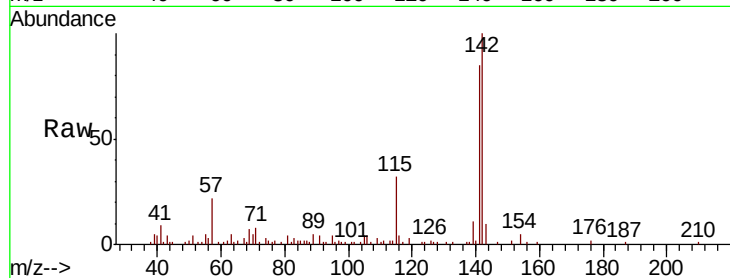
Tot Ion:142 Resp: 38556

Ion Ratio Lower Upper

142 100

141 84.7 73.7 110.5

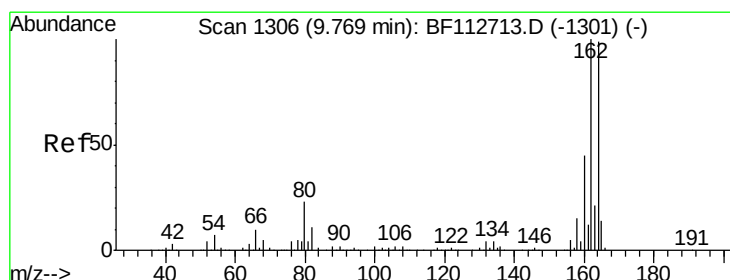
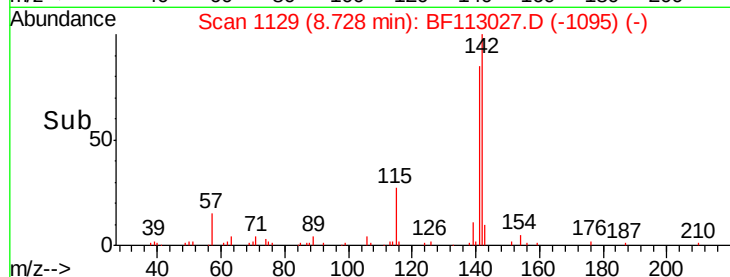
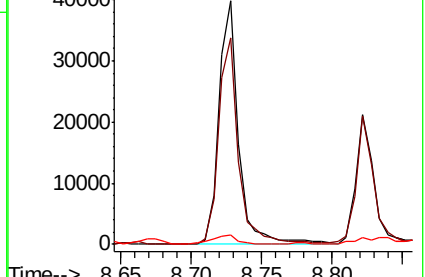
116 3.8 3.1 4.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

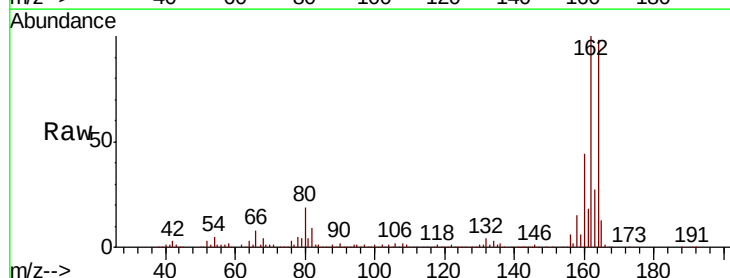
Tgt Ion:164 Resp: 252669

Ion Ratio Lower Upper

164 100

162 102.3 80.6 120.8

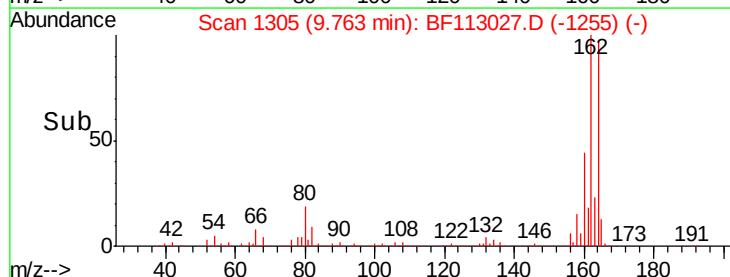
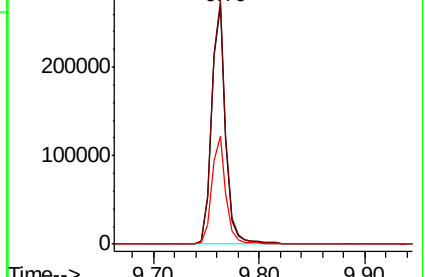
160 45.3 36.0 54.0

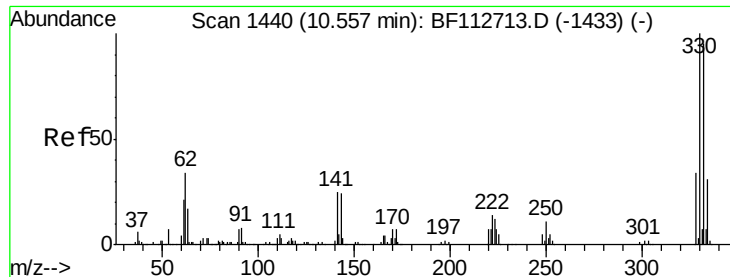


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 89.732 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

Instrument :

BNA\_F

ClientSampleId :

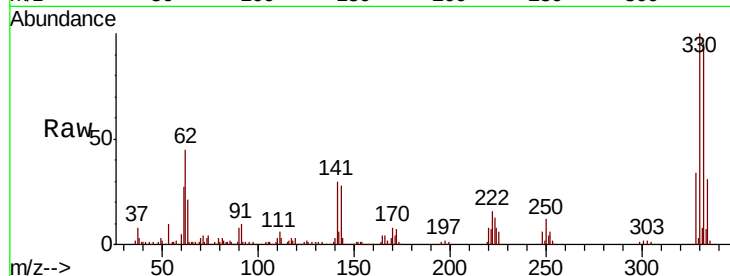
Tot Ion:330 Resp: 240698

Ion Ratio Lower Upper

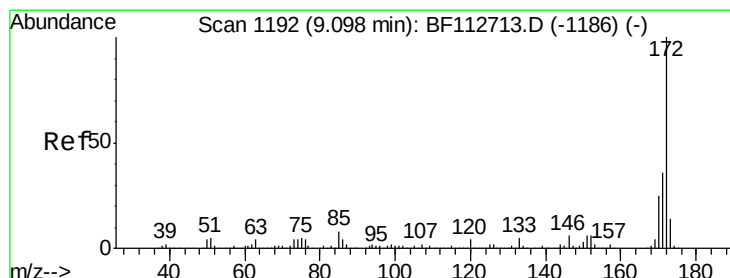
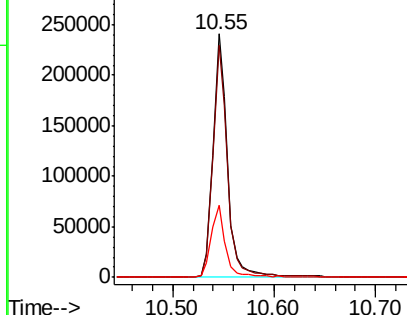
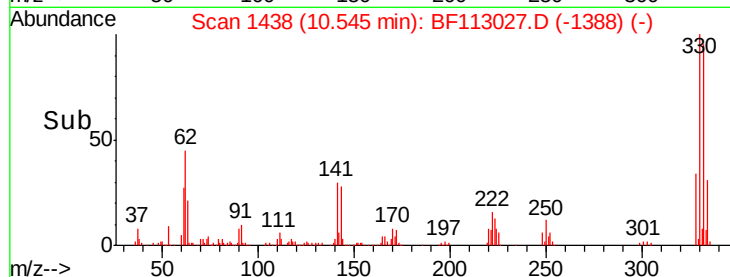
330 100

332 96.6 76.2 114.4

141 28.6 27.0 40.6



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: 71.594 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

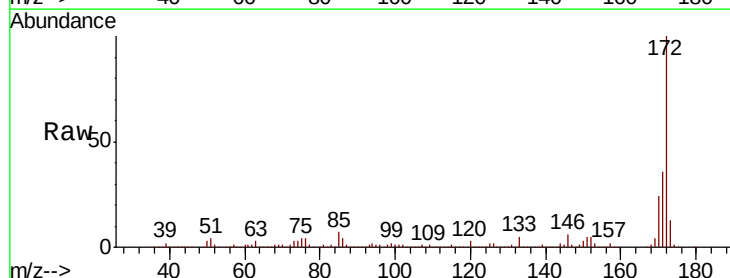
Tgt Ion:172 Resp: 1138197

Ion Ratio Lower Upper

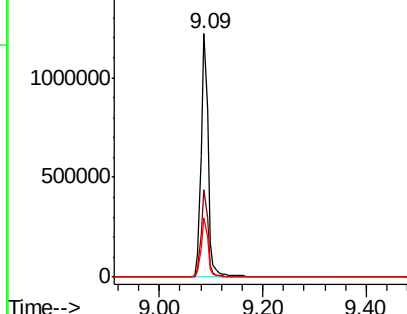
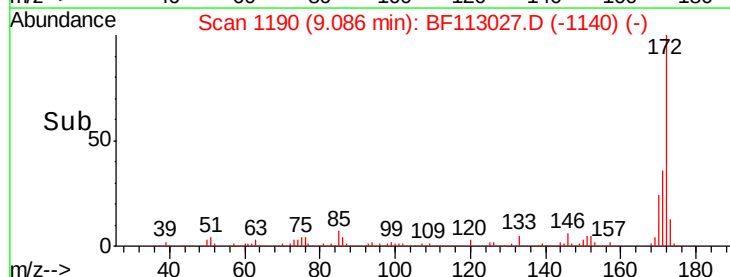
172 100

171 35.8 29.0 43.4

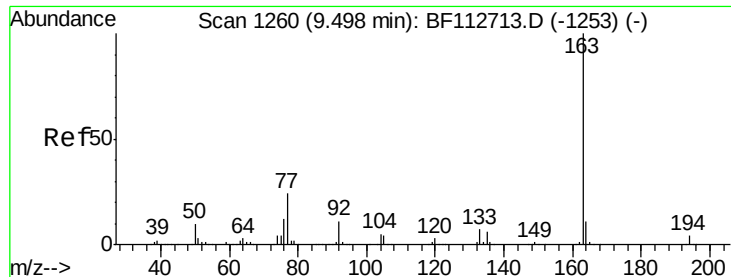
170 24.2 20.0 30.0



Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E



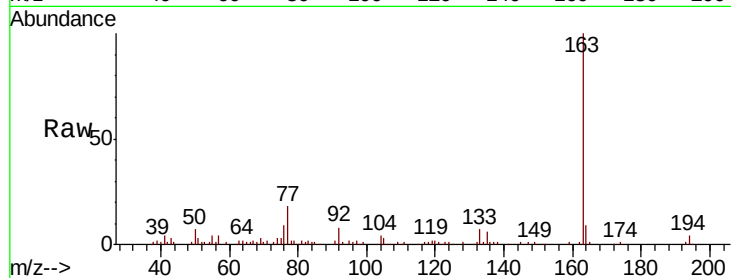




#50  
Dimethylphthalate  
Concen: 4.414 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF113027.D  
Acq: 13 Mar 2019 9:21

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 163   | Resp  | 82229 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.0   | 3.0   | 4.4   |
| 164       | 9.5   | 8.4   | 12.6  |

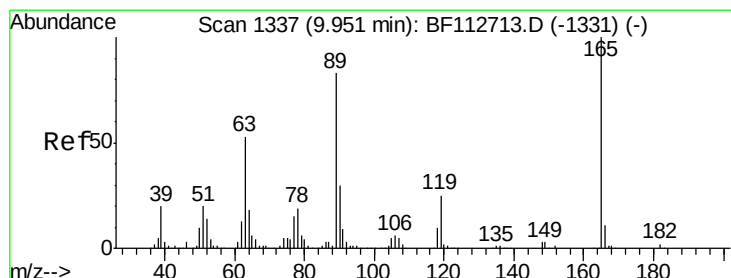
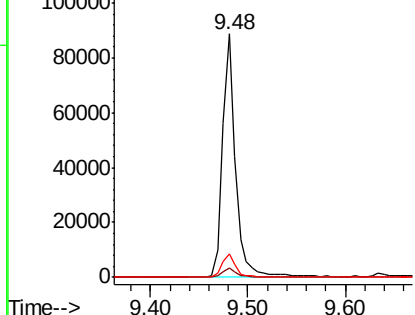
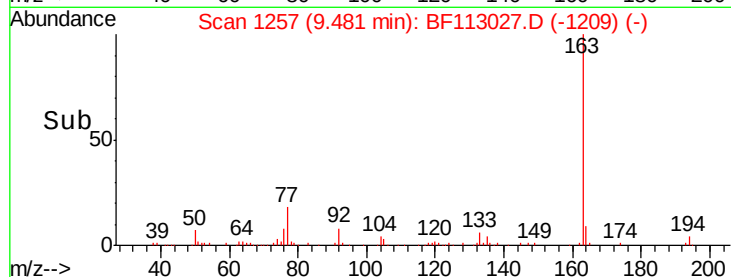


Abundance

Ion 163.00 (162.70 to 163.70): E

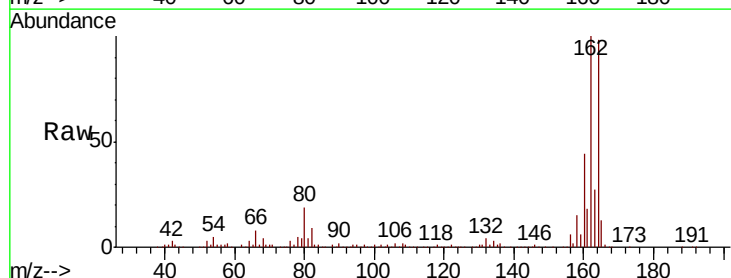
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57  
2,4-Dinitrotoluene  
Concen: 7.094 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.19 min  
Lab File: BF113027.D  
Acq: 13 Mar 2019 9:21

| Tgt Ion   | 165   | Resp  | 34213 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.3   | 42.2  | 63.2# |
| 89        | 1.7   | 66.2  | 99.4# |
| 182       | 0.0   | 1.8   | 2.6#  |



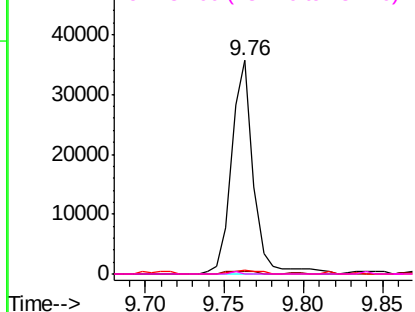
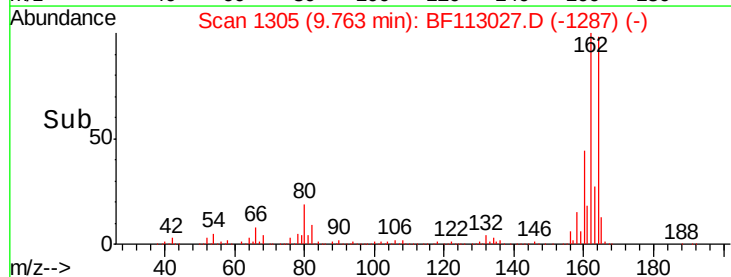
Abundance

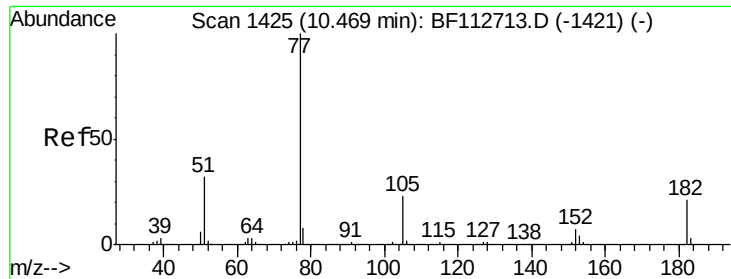
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E





#63

Azobenzene

Concen: 2.164 ng

RT: 10.46 min Scan# 1423

Delta R.T. -0.01 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 77 Resp: 43616

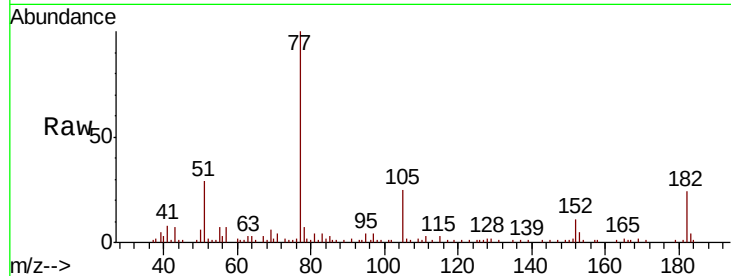
Ion Ratio Lower Upper

77 100

182 24.2 1.4 41.4

105 25.2 2.6 42.6

51 29.3 12.0 52.0

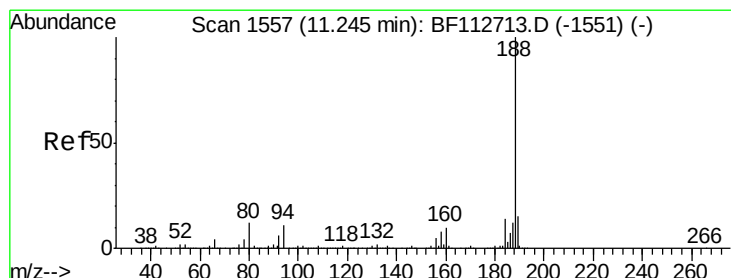
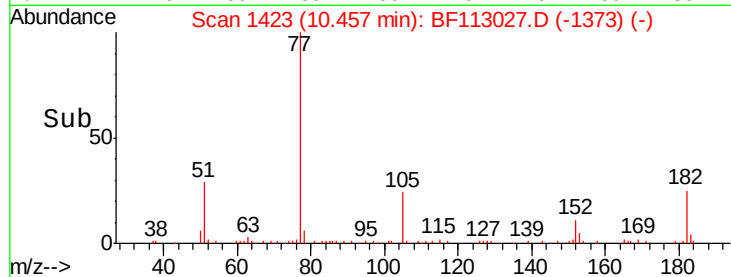
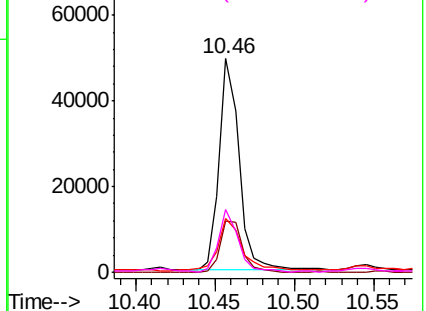


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

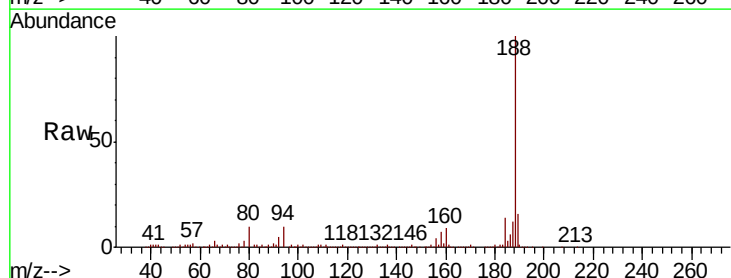
Tgt Ion: 188 Resp: 429202

Ion Ratio Lower Upper

188 100

94 9.6 9.0 13.4

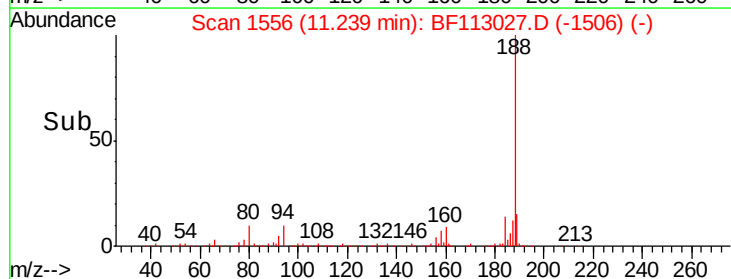
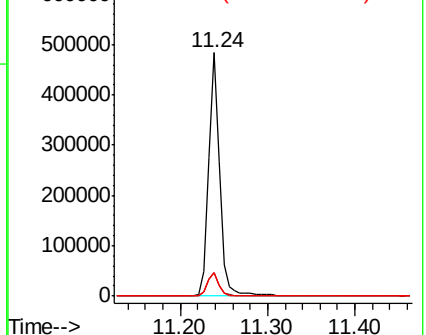
80 9.7 9.2 13.8

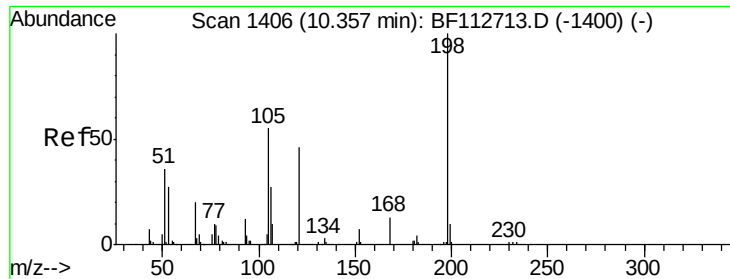


Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

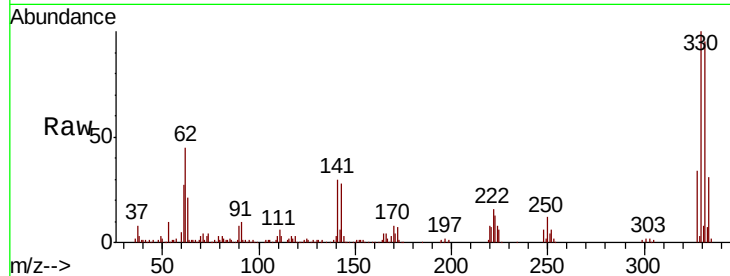




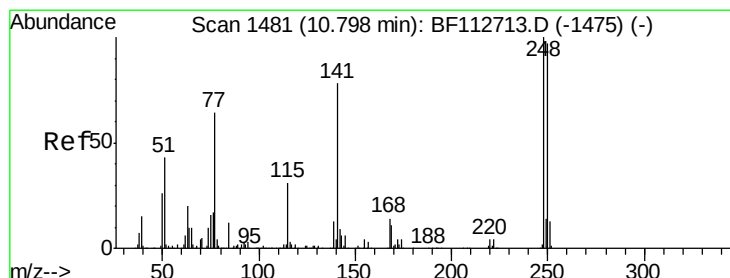
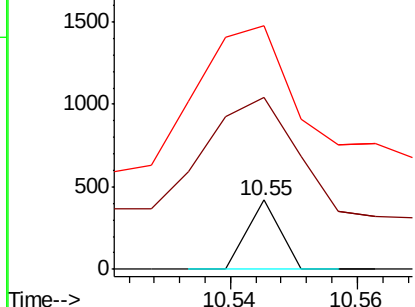
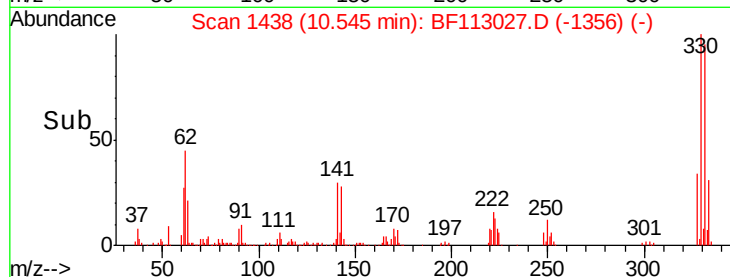
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.689 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. 0.18 min  
 Lab File: BF113027.D  
 Acq: 13 Mar 2019 9:21

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:198 Resp: 148  
 Ion Ratio Lower Upper  
 198 100  
 51 249.2 43.8 83.8#  
 105 352.3 36.5 76.5#

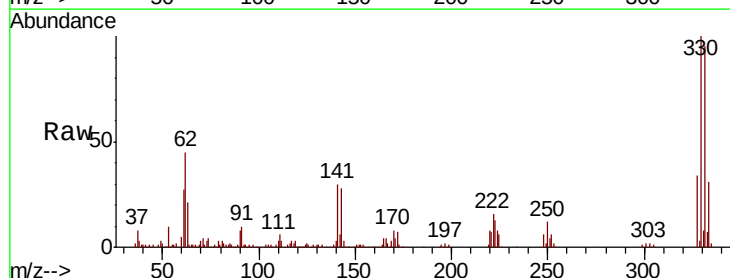


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

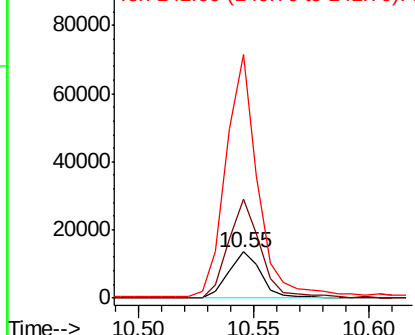
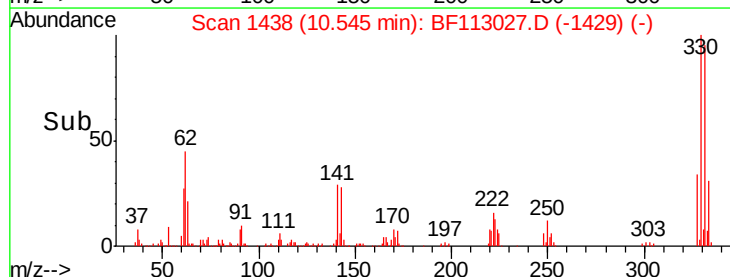


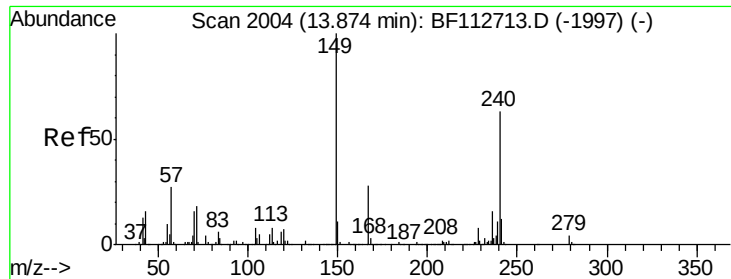
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.927 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.25 min  
 Lab File: BF113027.D  
 Acq: 13 Mar 2019 9:21

Tgt Ion:248 Resp: 13233  
 Ion Ratio Lower Upper  
 248 100  
 250 214.5 77.5 116.3#  
 141 526.8 62.4 93.6#



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

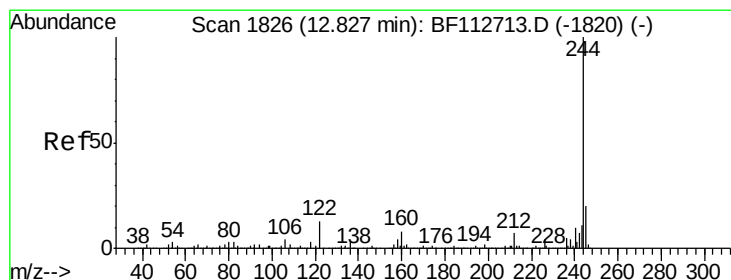
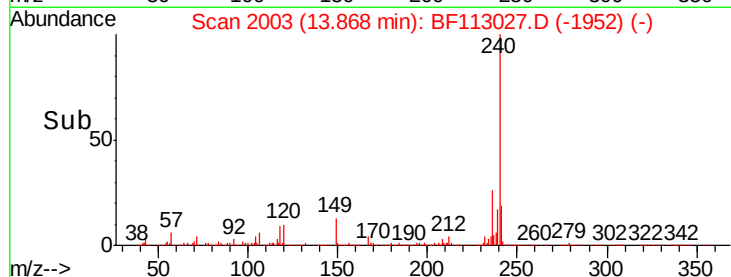
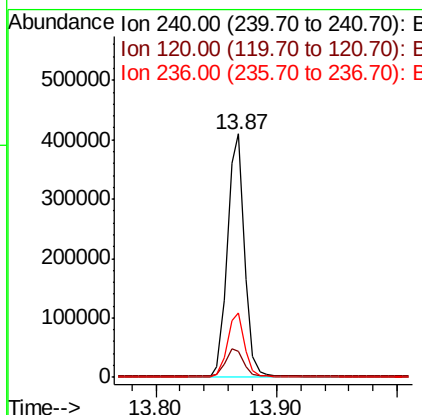
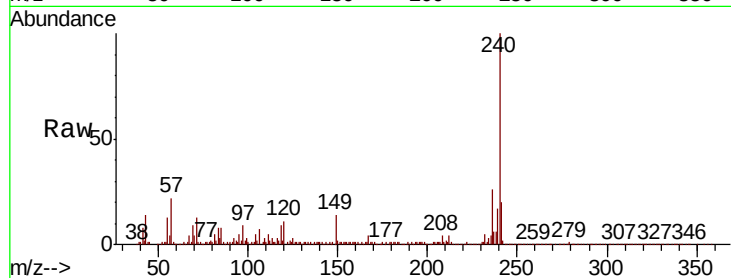




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.87 min Scan# 2003  
 Delta R.T. -0.00 min  
 Lab File: BF113027.D  
 Acq: 13 Mar 2019 9:21

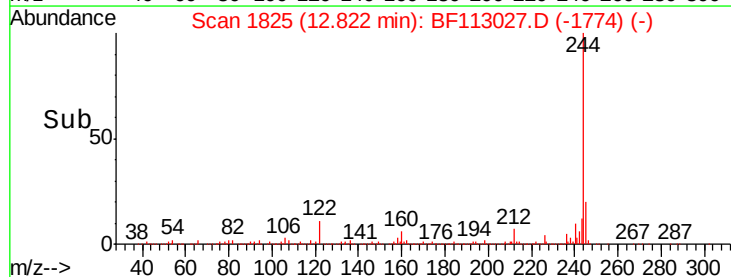
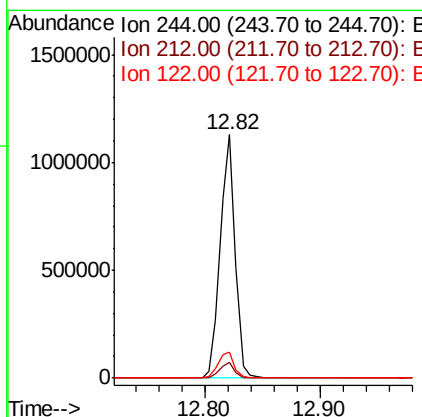
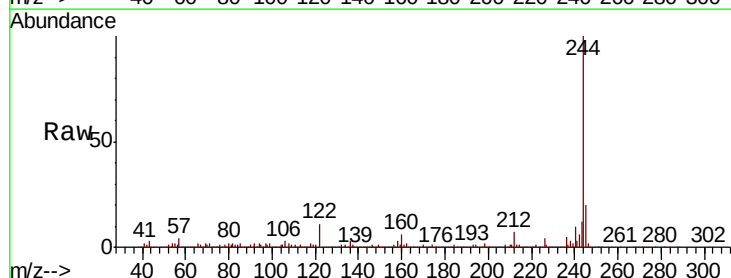
Instrument :  
 BNA\_F  
 ClientSampled :

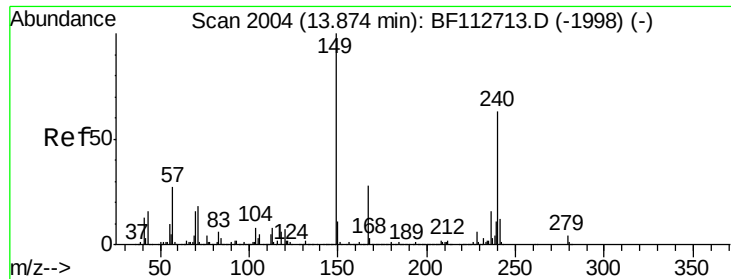
Tot Ion:240 Resp: 404219  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 8.9 13.3  
 236 26.3 20.7 31.1



#79  
 Terphenyl-d14  
 Concen: 48.593 ng  
 RT: 12.82 min Scan# 1825  
 Delta R.T. -0.00 min  
 Lab File: BF113027.D  
 Acq: 13 Mar 2019 9:21

Tgt Ion:244 Resp: 1013275  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.6 8.4  
 122 10.6 10.5 15.7





#84

Bis(2-ethylhexyl)phthalate

Concen: 10.180 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

Instrument :

BNA\_F

ClientSampleId :

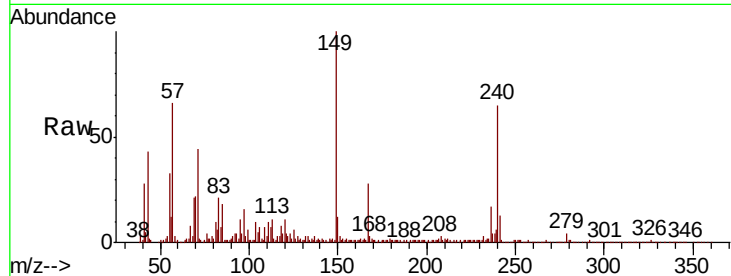
Tot Ion:149 Resp: 179606

Ion Ratio Lower Upper

149 100

167 28.2 22.4 33.6

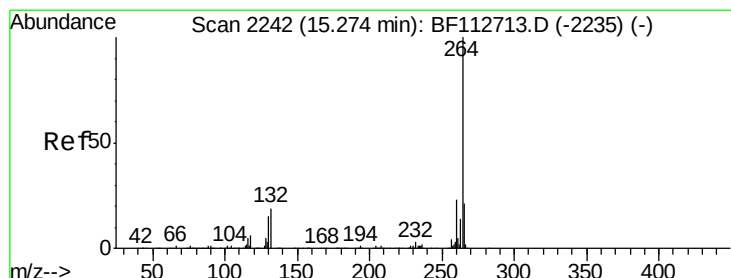
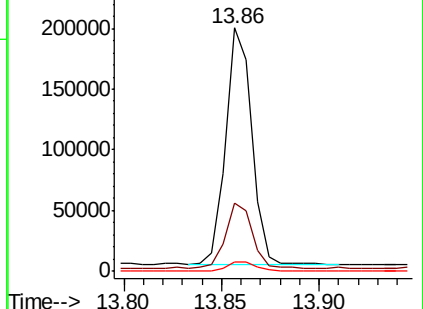
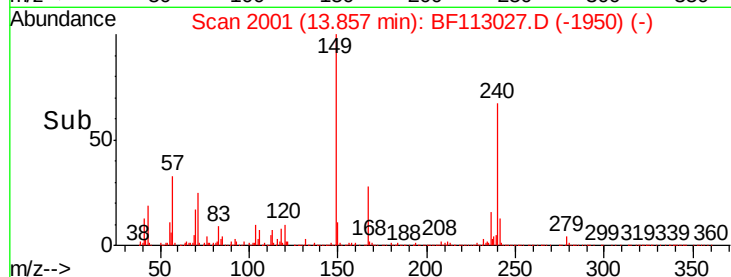
279 3.8 3.3 4.9



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2242

Delta R.T. -0.00 min

Lab File: BF113027.D

Acq: 13 Mar 2019 9:21

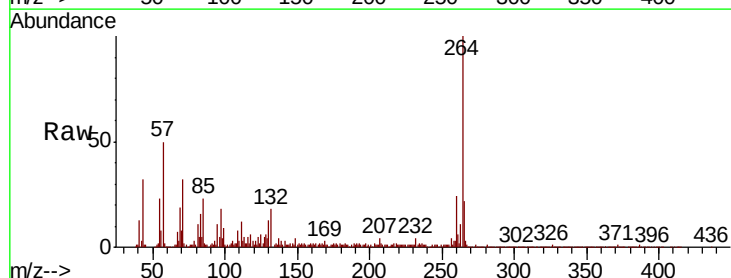
Tgt Ion:264 Resp: 297603

Ion Ratio Lower Upper

264 100

260 24.3 18.7 28.1

265 22.3 17.2 25.8



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

