

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\  
 Data File : BF104734.D  
 Acq On : 24 Apr 2018 4:19  
 Operator : JU/SJ  
 Sample : J2494-06  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 24 05:26:17 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 23 15:38:25 2018  
 Response via : Initial Calibration

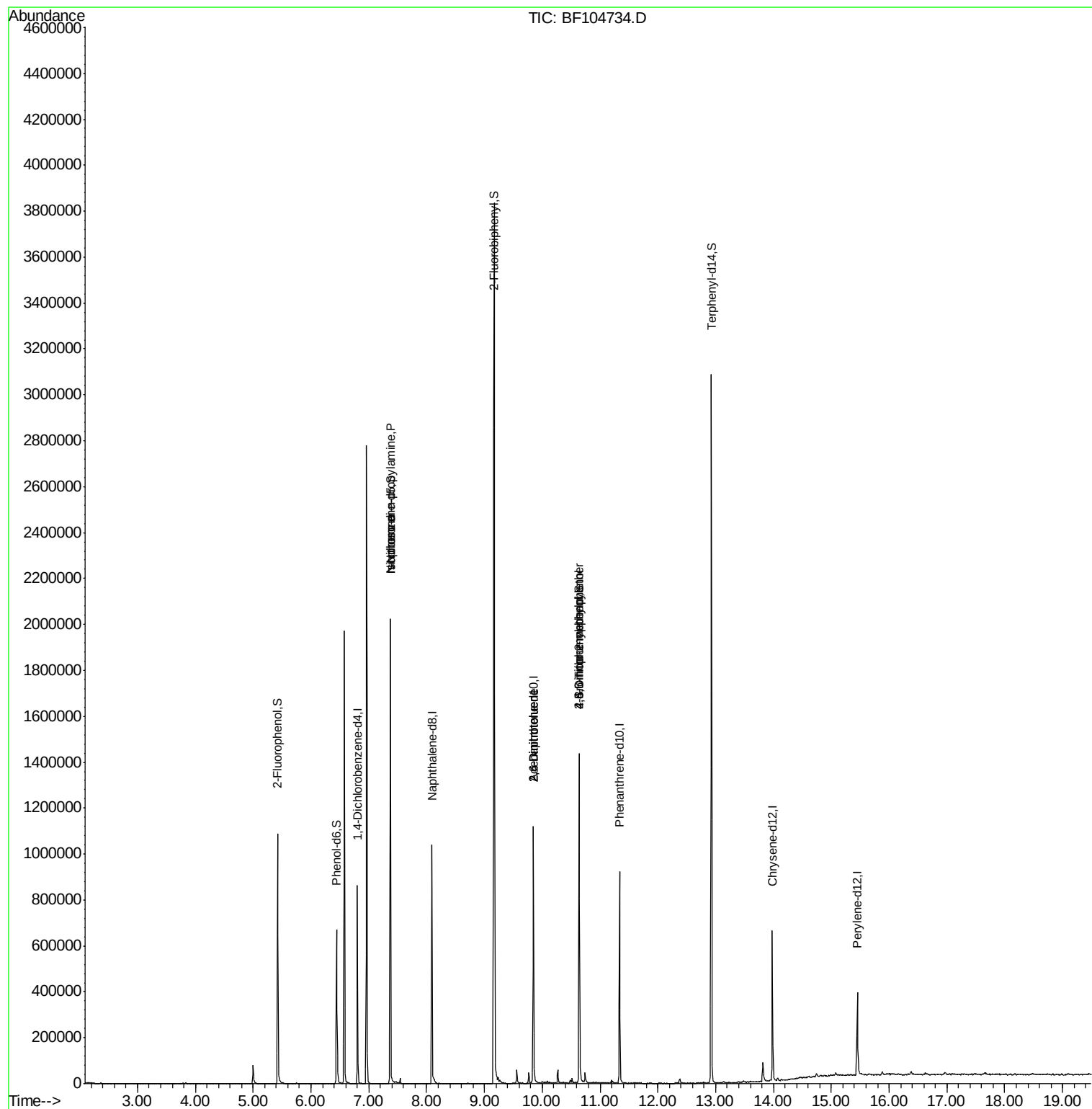
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 118423   | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 495596   | 20.00     | ng     | 0.00     |
| 38) Acenaphthene-d10           | 9.85  | 164  | 218954   | 20.00     | ng     | 0.00     |
| 63) Phenanthrene-d10           | 11.34 | 188  | 365472   | 20.00     | ng     | 0.00     |
| 75) Chrysene-d12               | 13.98 | 240  | 222140   | 20.00     | ng     | 0.00     |
| 86) Perylene-d12               | 15.45 | 264  | 170536   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 318145   | 41.08     | ng     | 0.00     |
| 7) Phenol-d6                   | 6.44  | 99   | 246865   | 25.94     | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 719074   | 94.74     | ng     | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 181853   | 80.07     | ng     | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 1275896  | 92.06     | ng     | 0.00     |
| 78) Terphenyl-d14              | 12.93 | 244  | 1104061  | 113.31    | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.45  | 77   | 381      | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 93468    | 15.031 ng | #      | 72       |
| 25) Isophorone                 | 7.37  | 82   | 719064   | 44.803 ng | #      | 64       |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 28406    | 8.891 ng  | #      | 26       |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 28406    | 6.778 ng  | #      | 23       |
| 64) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 301      | 7.490 ng  | #      | 1        |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 10543    | 2.712 ng  | #      | 1        |
| 76) Benzydine                  | 12.93 | 184  | 14589    | Below Cal |        | 99       |

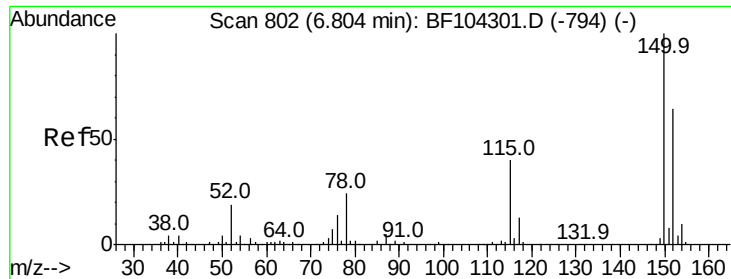
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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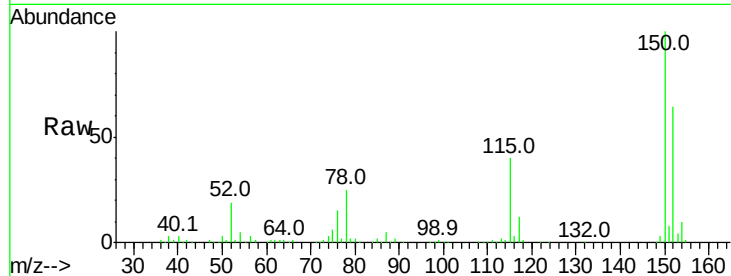


#1

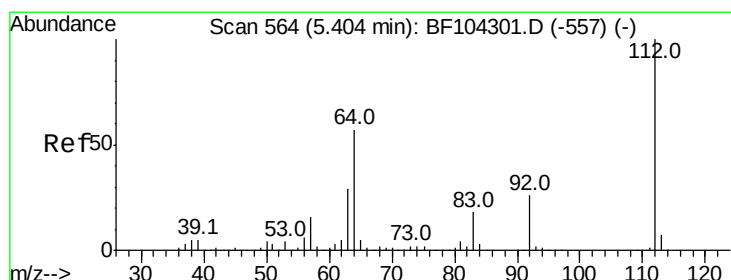
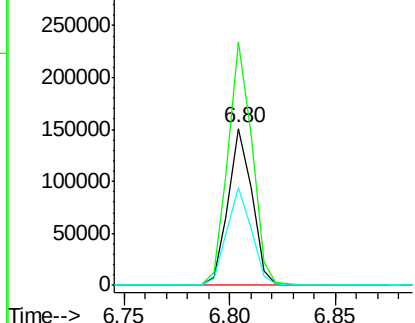
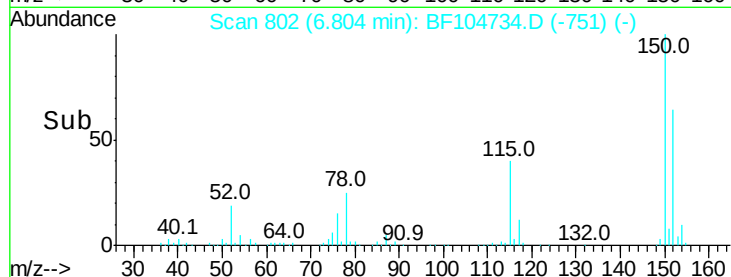
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BF104734.D  
Acq: 24 Apr 2018 4:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 118423  
Ion Ratio Lower Upper  
152 100  
150 155.4 124.6 186.8  
115 62.1 50.1 75.1



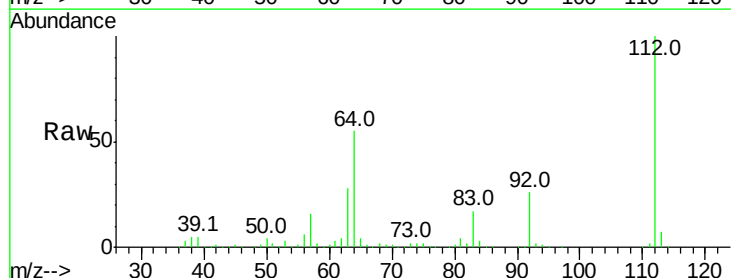
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



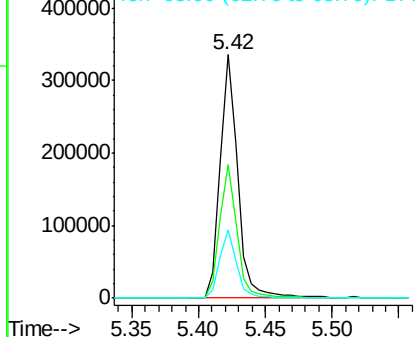
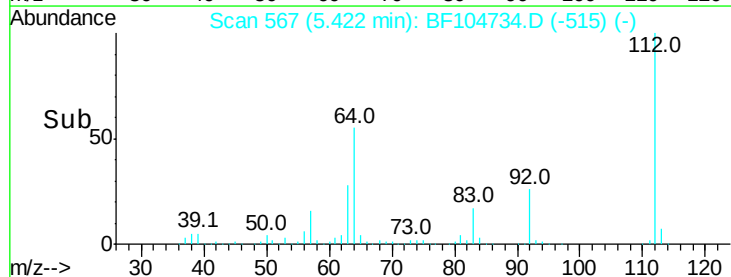
#5

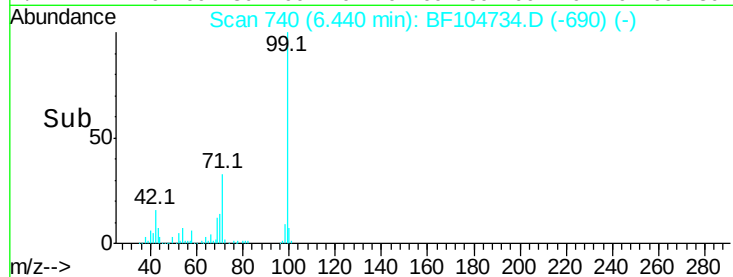
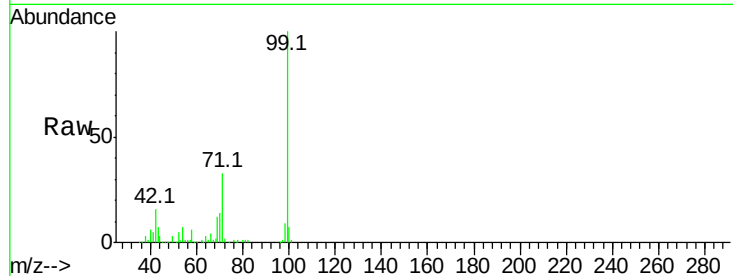
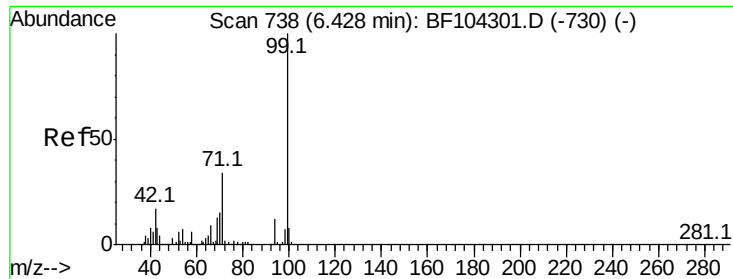
2-Fluorophenol  
Concen: 41.078 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.01 min  
Lab File: BF104734.D  
Acq: 24 Apr 2018 4:19

Tgt Ion:112 Resp: 318145  
Ion Ratio Lower Upper  
112 100  
64 54.9 47.9 71.9  
63 28.1 23.7 35.5



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: 25.942 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104734.D

Acq: 24 Apr 2018 4:19

Instrument :

BNA\_F

ClientSampleId :

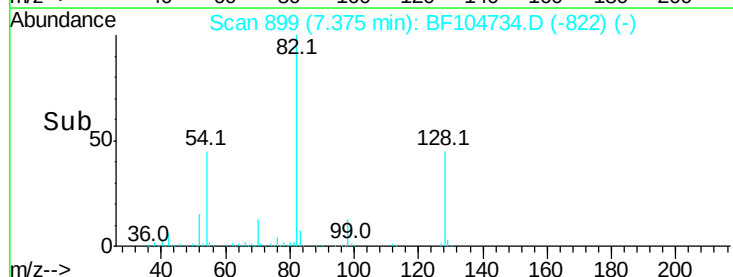
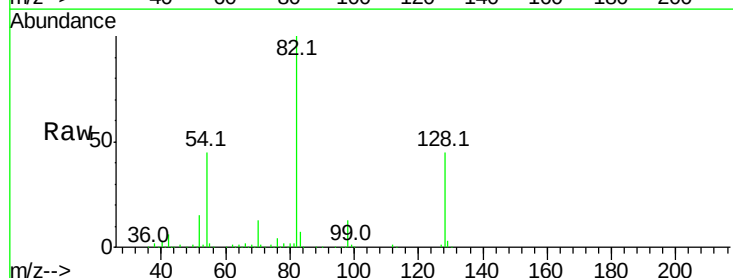
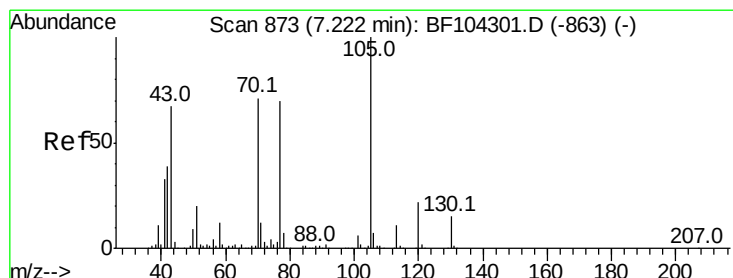
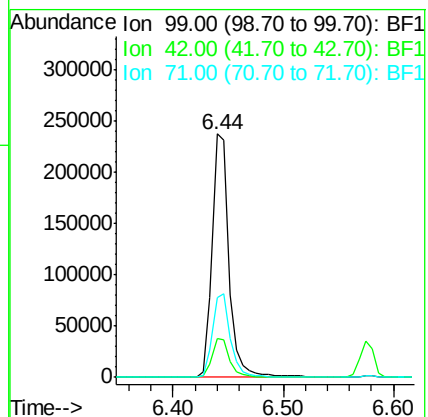
Tot Ion: 99 Resp: 246865

Ion Ratio Lower Upper

99 100

42 15.7 14.5 21.7

71 33.0 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.031 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104734.D

Acq: 24 Apr 2018 4:19

Tgt Ion: 70 Resp: 93468

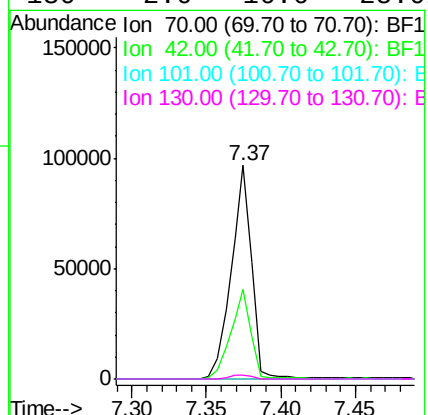
Ion Ratio Lower Upper

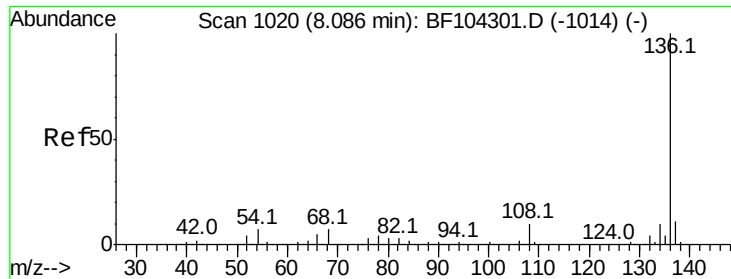
70 100

42 41.7 47.5 71.3#

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

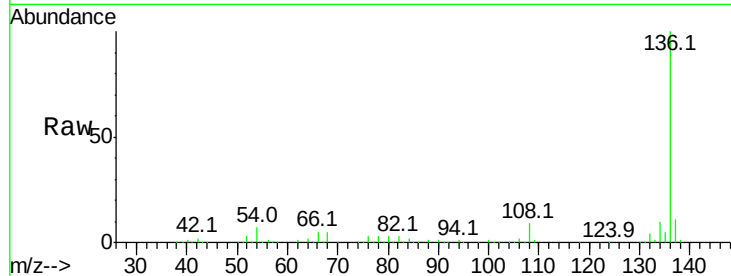




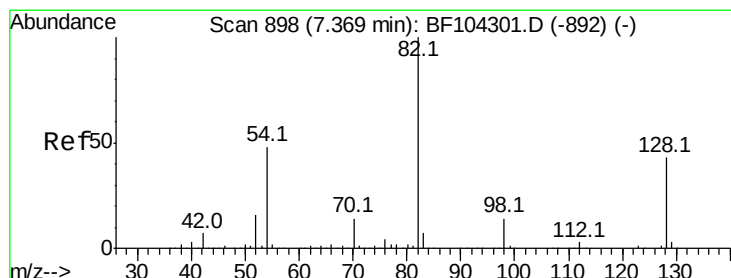
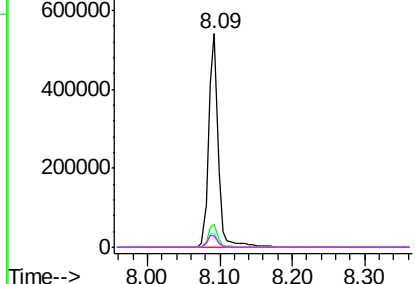
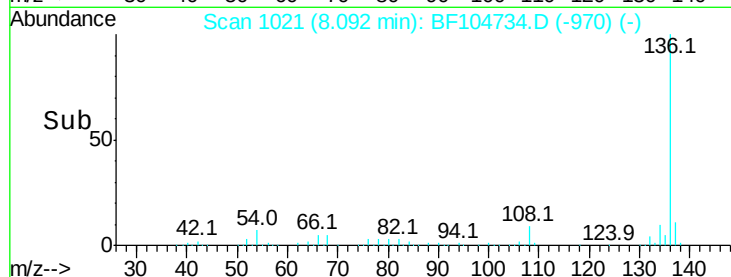
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.00 min  
Lab File: BF104734.D  
Acq: 24 Apr 2018 4:19

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 495596 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 6.6   | 6.6   | 9.8    |
| 68       | 5.4   | 5.0   | 7.4    |

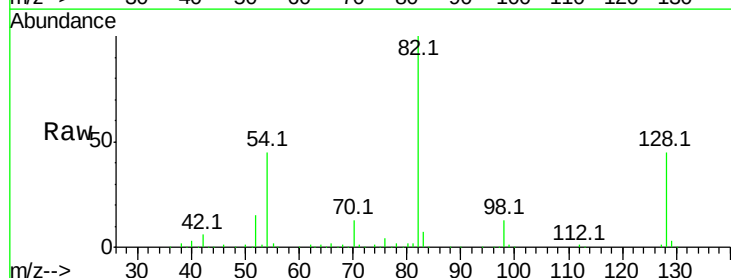


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

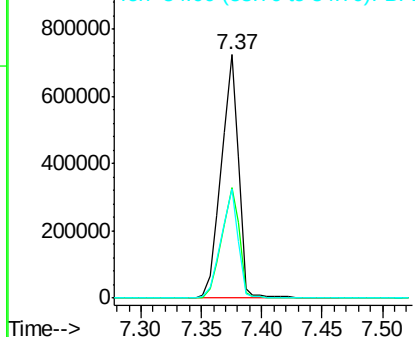
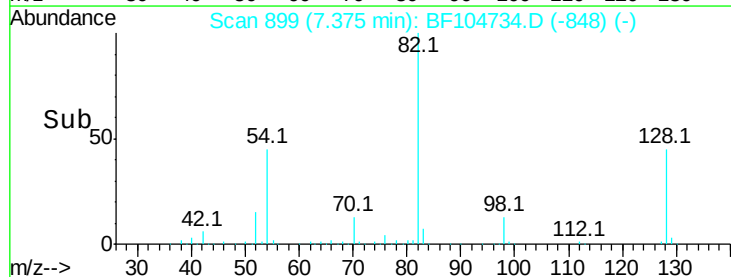


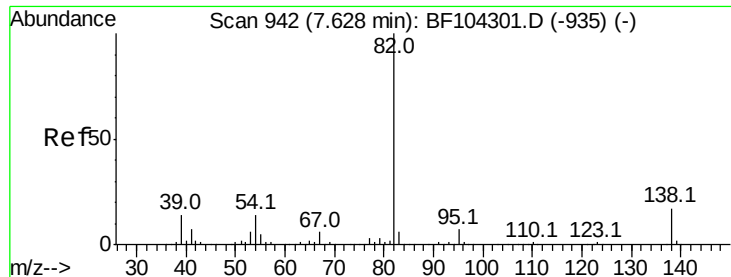
#23  
Nitrobenzene-d5  
Concen: 94.743 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: BF104734.D  
Acq: 24 Apr 2018 4:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 719074 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.5  | 36.1  | 54.1   |
| 54       | 44.7  | 41.4  | 62.2   |



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





#25

Isophorone

Concen: 44.803 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.25 min

Lab File: BF104734.D

Acq: 24 Apr 2018 4:19

Instrument :

BNA\_F

ClientSampled :

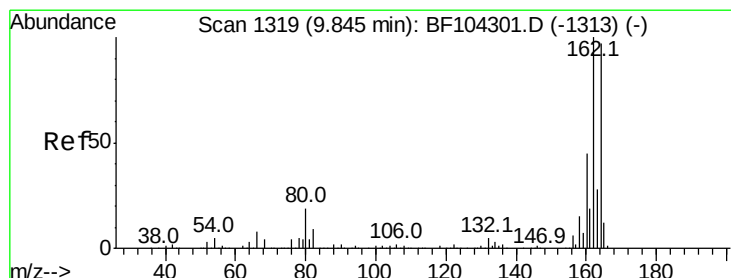
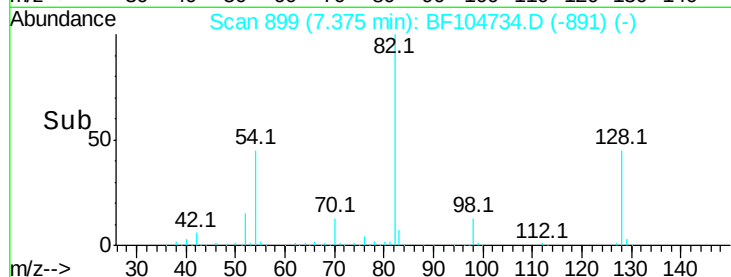
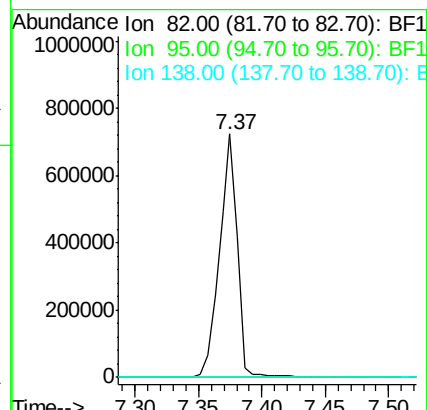
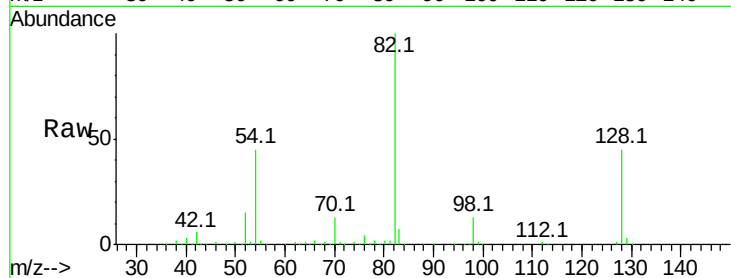
Tot Ion: 82 Resp: 719064

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.00 min

Lab File: BF104734.D

Acq: 24 Apr 2018 4:19

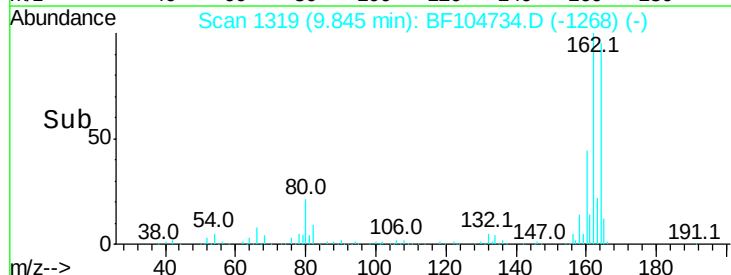
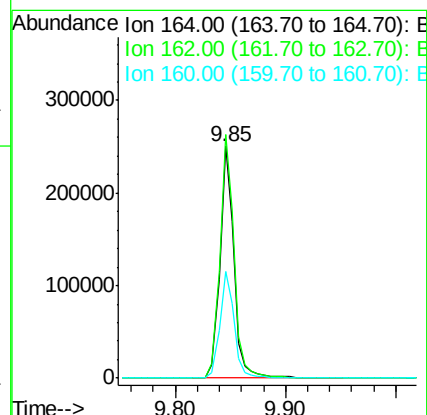
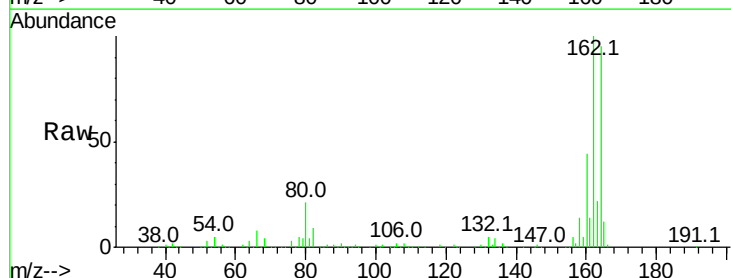
Tgt Ion:164 Resp: 218954

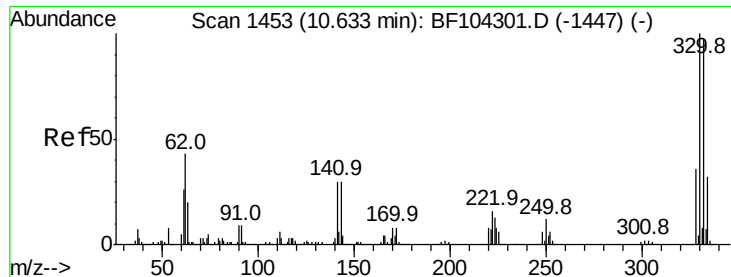
Ion Ratio Lower Upper

164 100

162 105.0 86.1 129.1

160 46.0 38.3 57.5

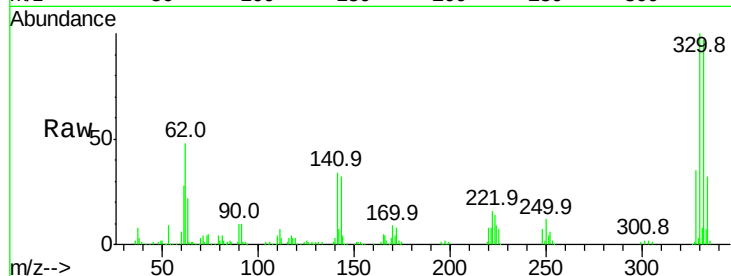




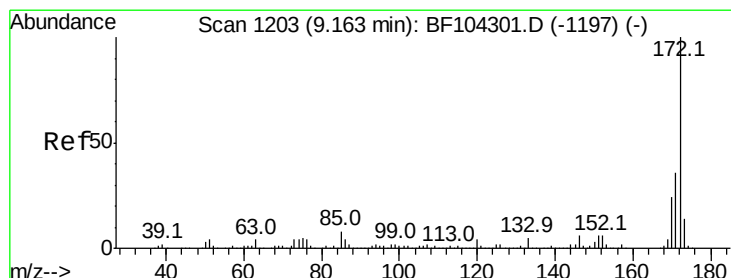
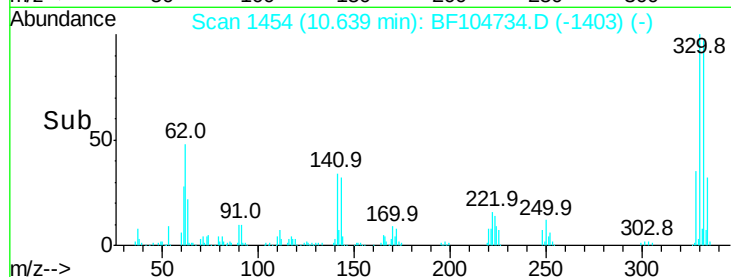
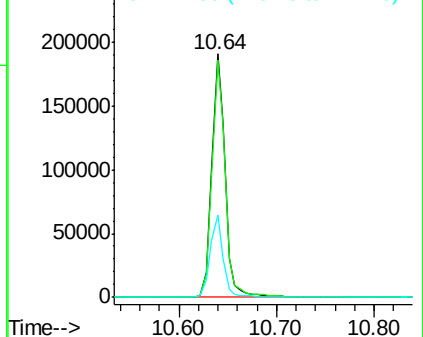
#41  
 2,4,6-Tribromophenol  
 Concen: 80.067 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.00 min  
 Lab File: BF104734.D  
 Acq: 24 Apr 2018 4:19

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 181853  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 77.0 115.6  
 141 33.0 29.9 44.9

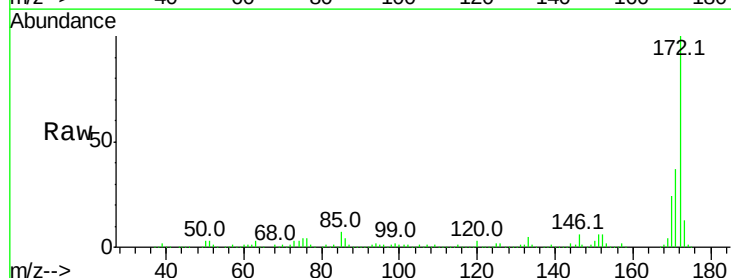


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

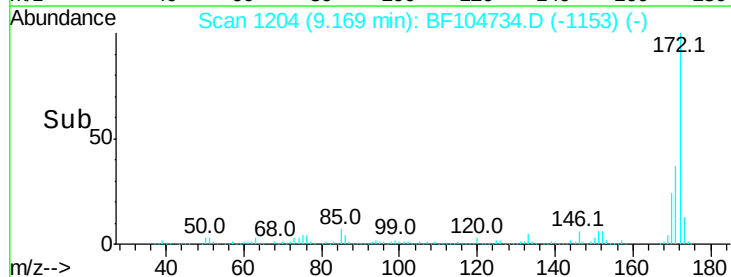
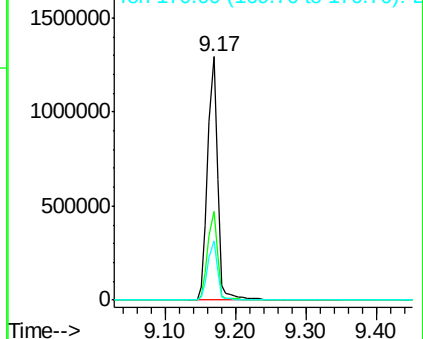


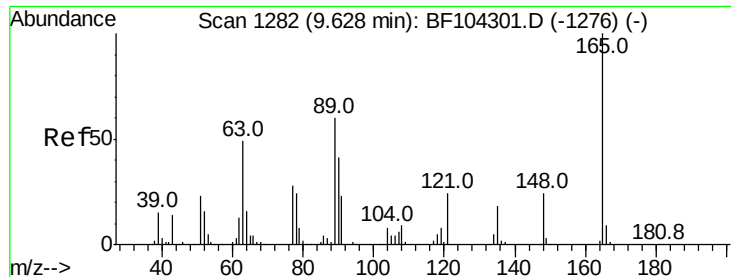
#44  
 2-Fluorobiphenyl  
 Concen: 92.056 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.00 min  
 Lab File: BF104734.D  
 Acq: 24 Apr 2018 4:19

Tgt Ion:172 Resp: 1275896  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.7 44.5  
 170 24.5 19.6 29.4



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

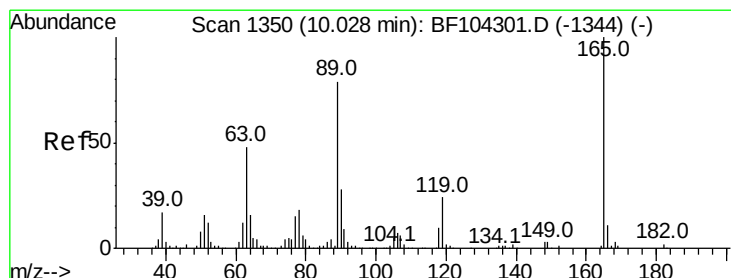
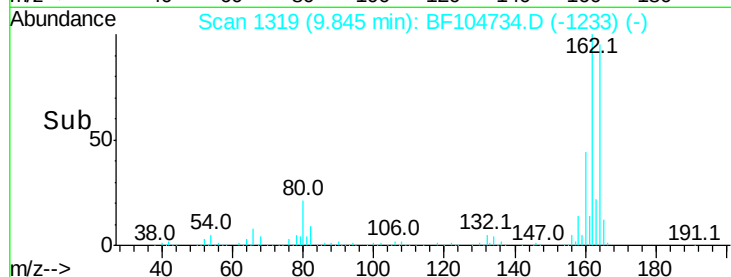
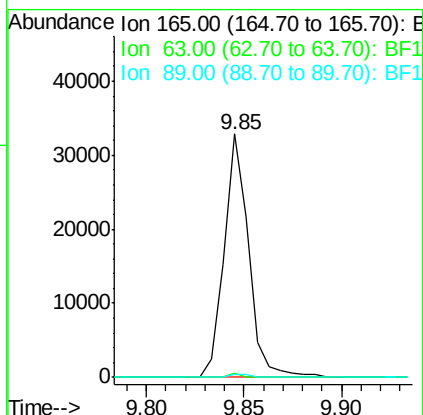
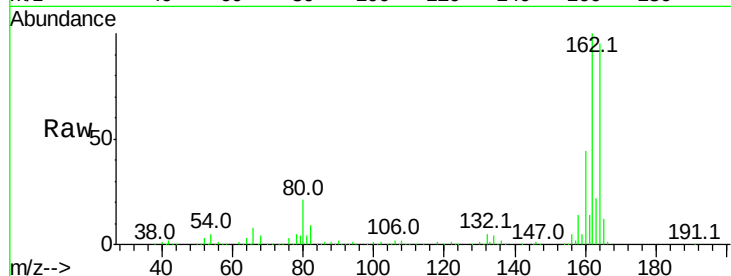




#50  
 2,6-Dinitrotoluene  
 Concen: 8.891 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.21 min  
 Lab File: BF104734.D  
 Acq: 24 Apr 2018 4:19

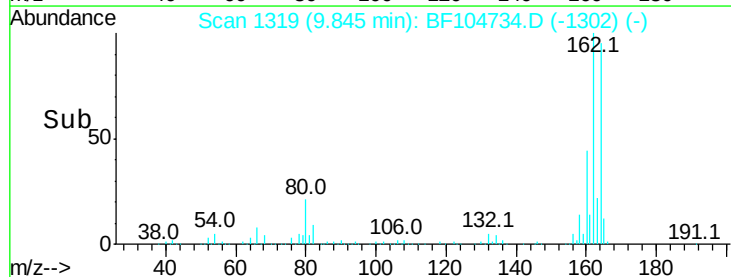
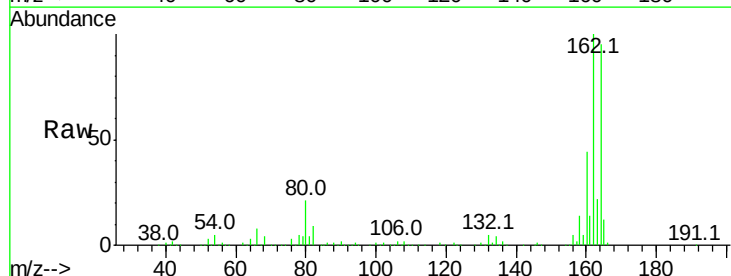
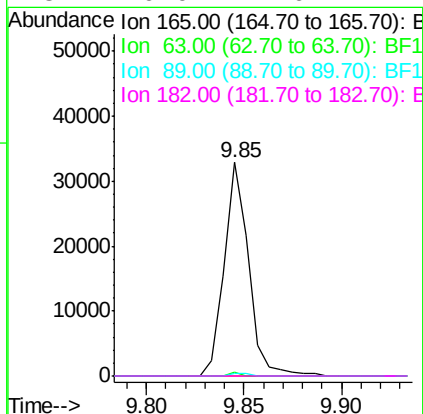
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 44.7  | 67.1# |
| 89      | 1.3   | 44.0  | 66.0# |

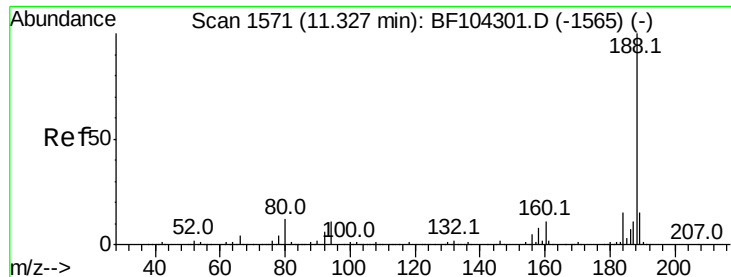


#56  
 2,4-Dinitrotoluene  
 Concen: 6.778 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.20 min  
 Lab File: BF104734.D  
 Acq: 24 Apr 2018 4:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 36.4  | 54.6# |
| 89      | 1.3   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



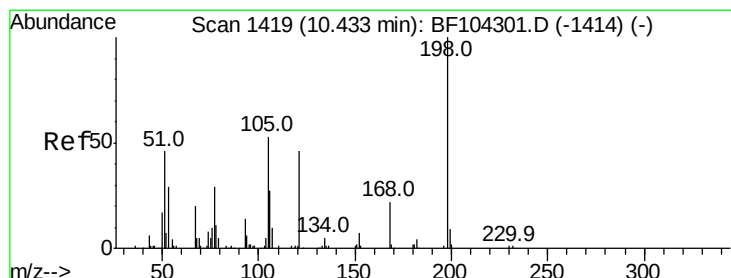
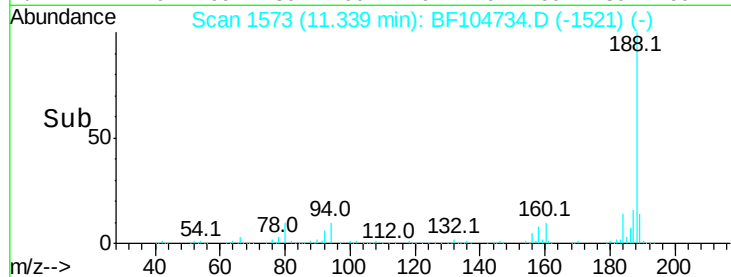
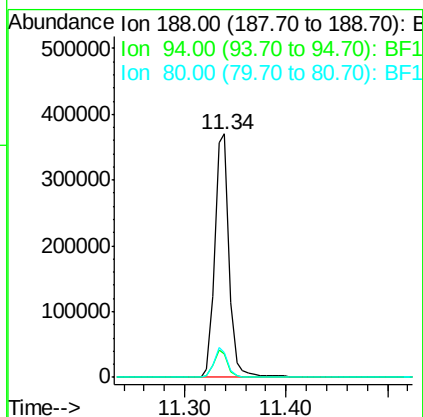
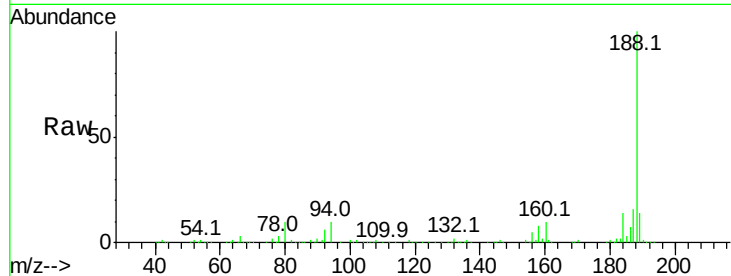




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. 0.01 min  
 Lab File: BF104734.D  
 Acq: 24 Apr 2018 4:19

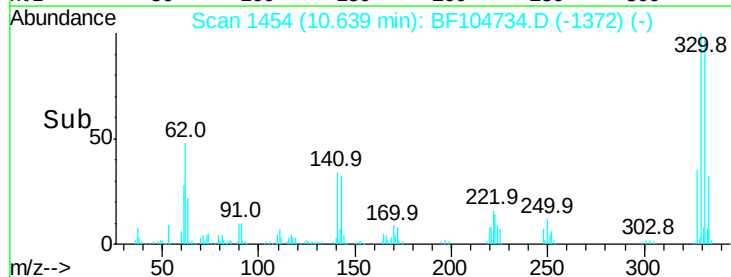
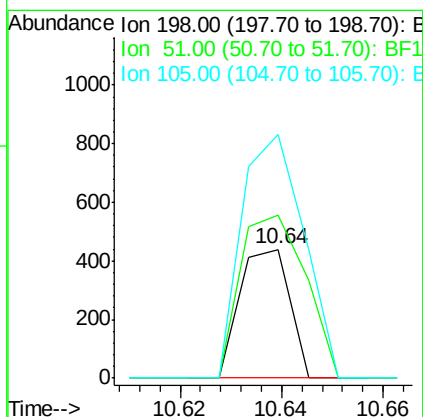
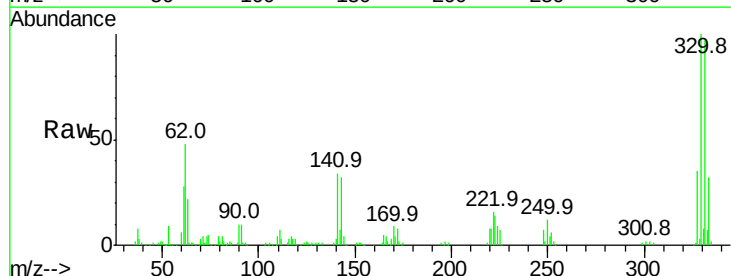
Instrument :  
 BNA\_F  
 ClientSampleId :

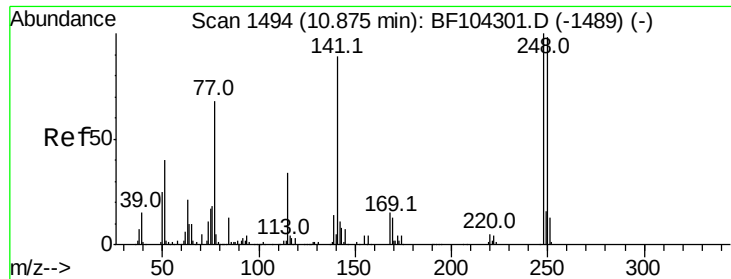
Tot Ion:188 Resp: 365472  
 Ion Ratio Lower Upper  
 188 100  
 94 9.6 8.5 12.7  
 80 10.4 9.2 13.8



#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.490 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.18 min  
 Lab File: BF104734.D  
 Acq: 24 Apr 2018 4:19

Tgt Ion:198 Resp: 301  
 Ion Ratio Lower Upper  
 198 100  
 51 127.1 37.7 77.7#  
 105 189.3 36.3 76.3#

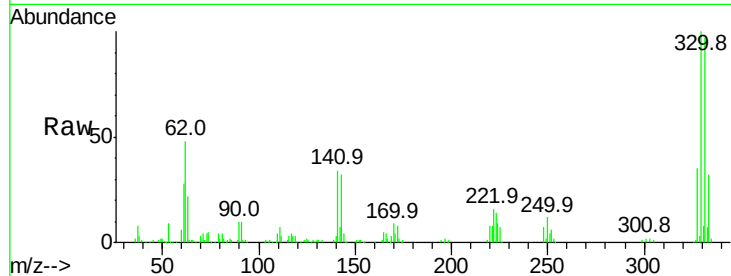




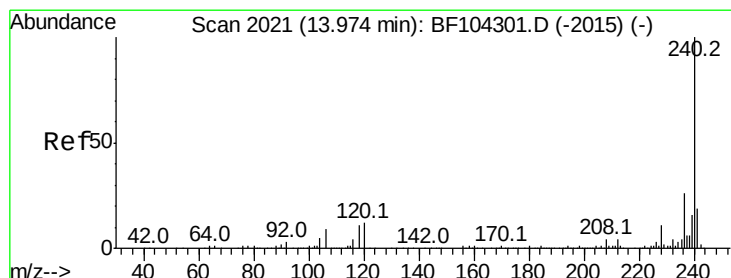
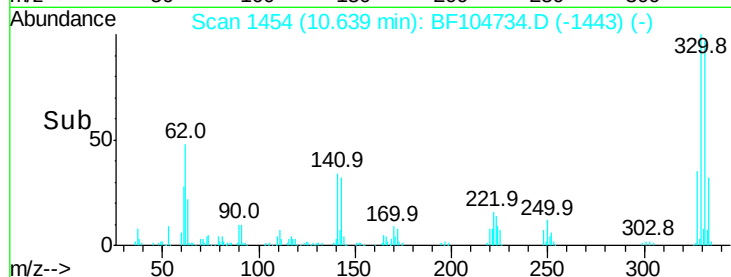
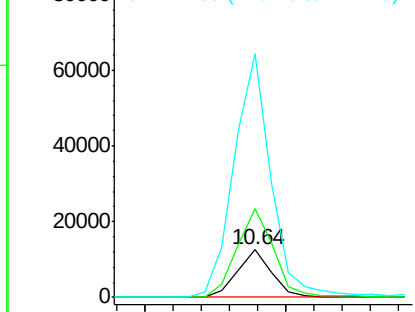
#66  
4-Bromophenyl-phenylether  
Concen: 2.712 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.24 min  
Lab File: BF104734.D  
Acq: 24 Apr 2018 4:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 10543  
Ion Ratio Lower Upper  
248 100  
250 187.6 76.9 115.3#  
141 514.5 74.4 111.6#

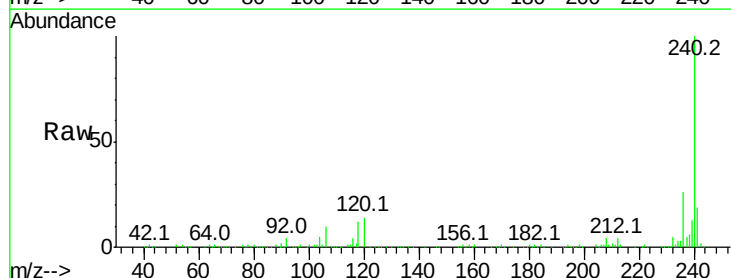


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

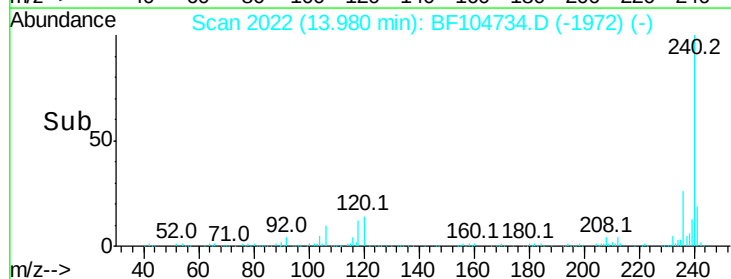
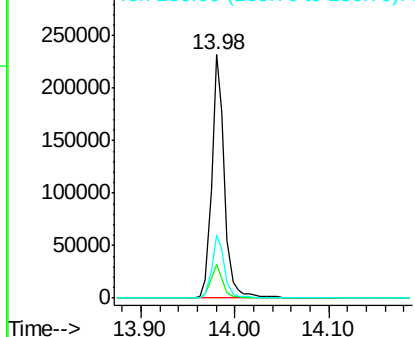


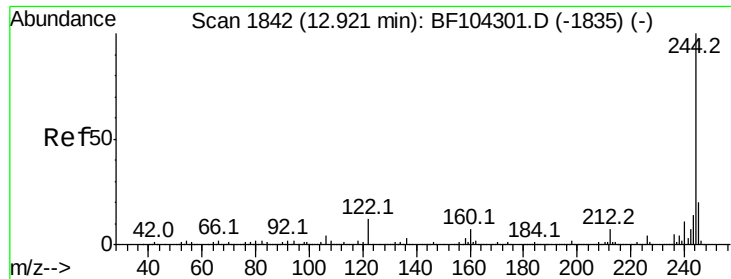
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.01 min  
Lab File: BF104734.D  
Acq: 24 Apr 2018 4:19

Tgt Ion:240 Resp: 222140  
Ion Ratio Lower Upper  
240 100  
120 13.8 9.5 14.3  
236 25.8 20.7 31.1



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: 113.310 ng

RT: 12.93 min Scan# 1843

Delta R.T. 0.01 min

Lab File: BF104734.D

Acq: 24 Apr 2018 4:19

Instrument :

BNA\_F

ClientSampled :

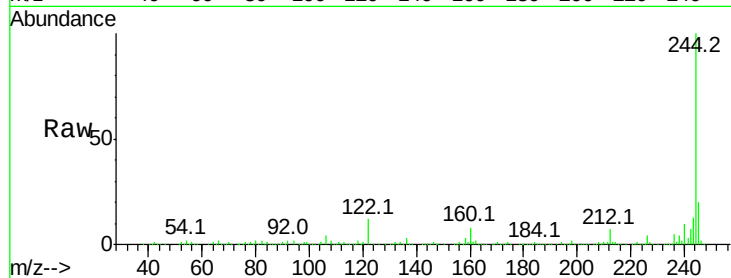
Tot Ion:244 Resp: 1104061

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

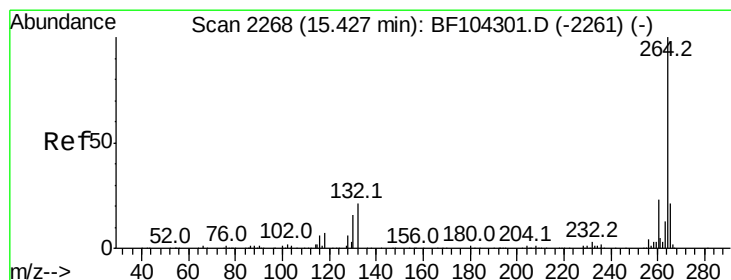
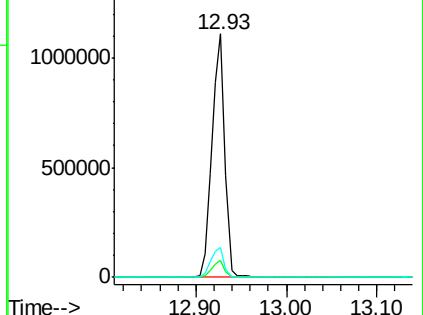
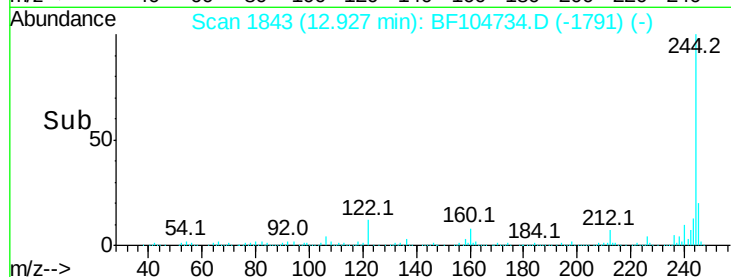
122 12.1 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.45 min Scan# 2272

Delta R.T. -0.00 min

Lab File: BF104734.D

Acq: 24 Apr 2018 4:19

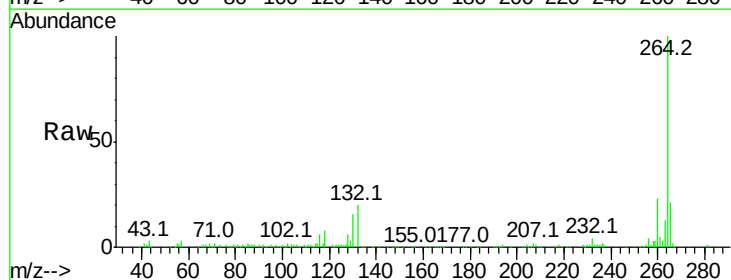
Tgt Ion:264 Resp: 170536

Ion Ratio Lower Upper

264 100

260 23.3 19.2 28.8

265 21.4 17.5 26.3



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

