

Data Path : Z:\HPCHEM1\BNA F\DATA\BF043018\  
 Data File : BF104932.D  
 Acq On : 30 Apr 2018 15:00  
 Operator : JU/SJ  
 Sample : J2522-02DL 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 30 15:41:28 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 30 15:20:08 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.79  | 152  | 118964   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.07  | 136  | 486888   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.83  | 164  | 224370   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.32 | 188  | 389298   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.97 | 240  | 236862   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.44 | 264  | 223067   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.41  | 112  | 119997   | 15.42 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 188751   | 19.75 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 120132   | 16.11 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.62 | 330  | 13162    | 5.66  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 255368   | 17.98 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.90 | 244  | 212774   | 20.48 | ng    | -0.01    |

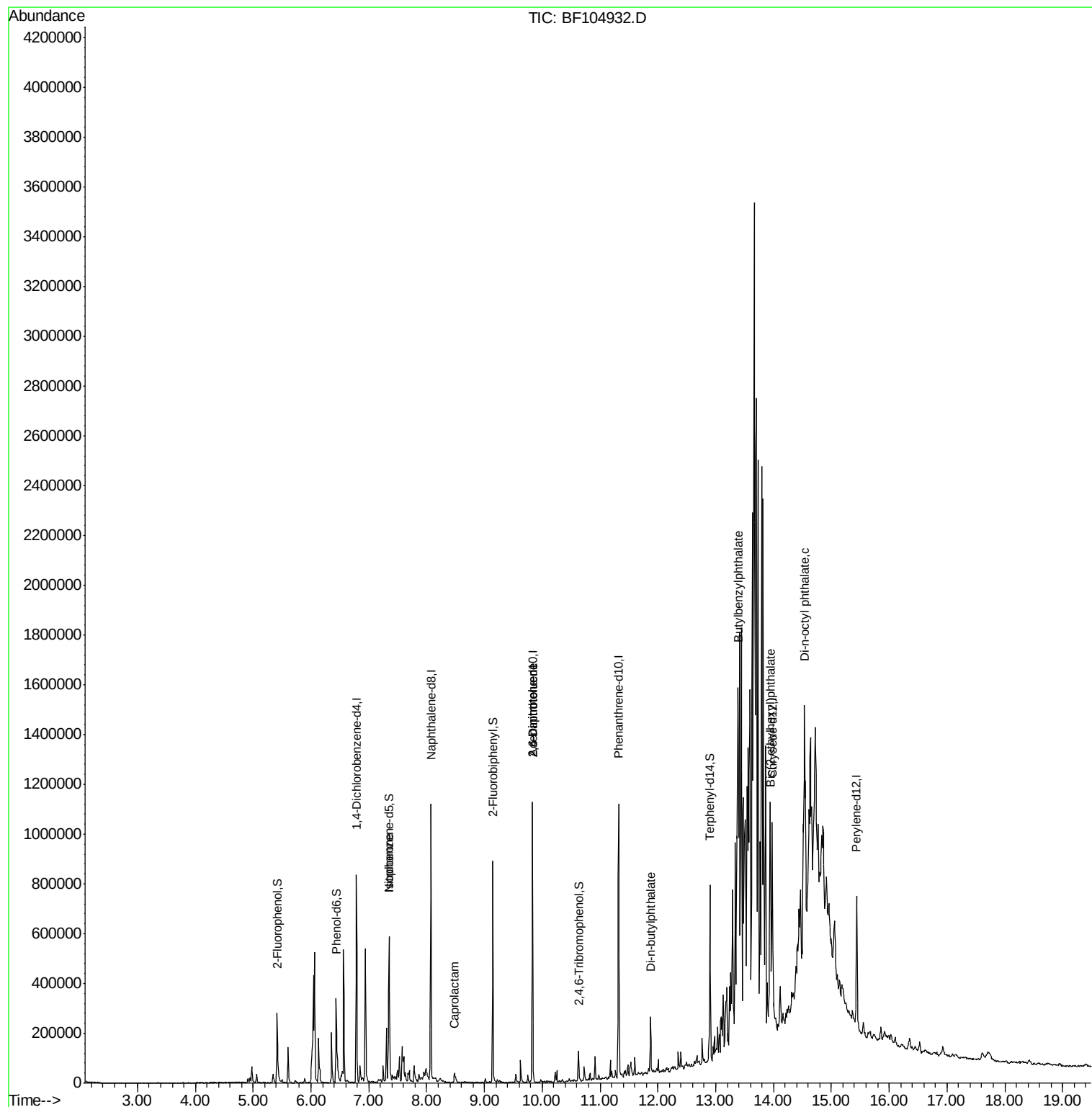
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.35  | 77   | 2728     | Below Cal |       | # 89   |
| 25) Isophorone                 | 7.35  | 82   | 120132   | 7.619     | ng    | # 64   |
| 35) Caprolactam                | 8.48  | 113  | 6618     | 2.857     | ng    | # 91   |
| 50) 2,6-Dinitrotoluene         | 9.83  | 165  | 29077    | 8.881     | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 29077    | 6.771     | ng    | # 22   |
| 73) Di-n-butylphthalate        | 11.87 | 149  | 109456   | 4.161     | ng    | # 99   |
| 76) Benzidine                  | 12.67 | 184  | 106      | Below Cal |       | # 1    |
| 79) Butylbenzylphthalate       | 13.39 | 149  | 495239   | 59.874    | ng    | # 71   |
| 83) Bis(2-ethylhexyl)phthalate | 13.95 | 149  | 589970   | 55.453    | ng    | # 58   |
| 84) Di-n-octyl phthalate       | 14.53 | 149  | 605857   | 34.081    | ng    | # 64   |

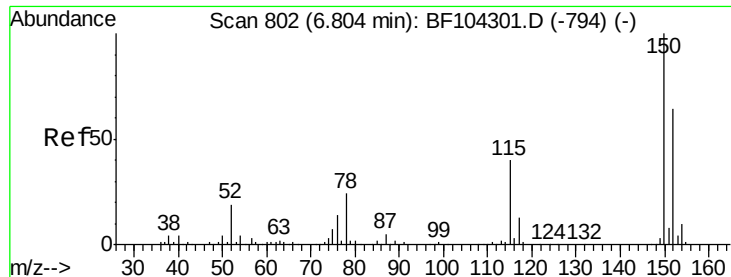
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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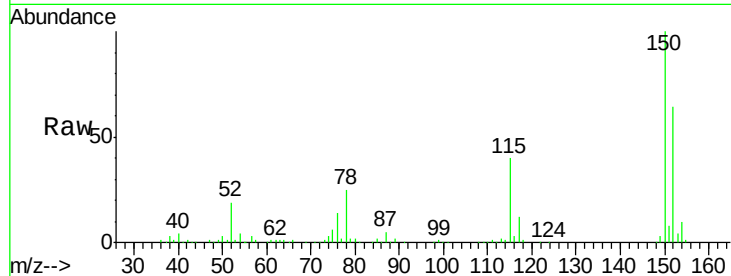


#1

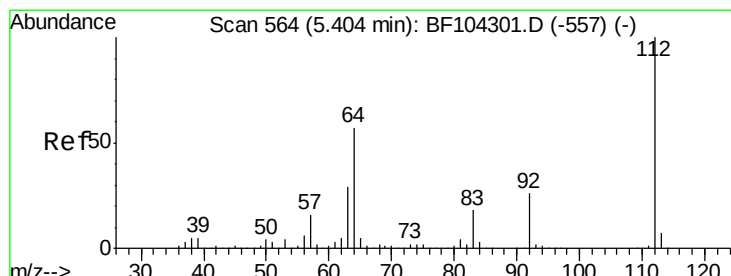
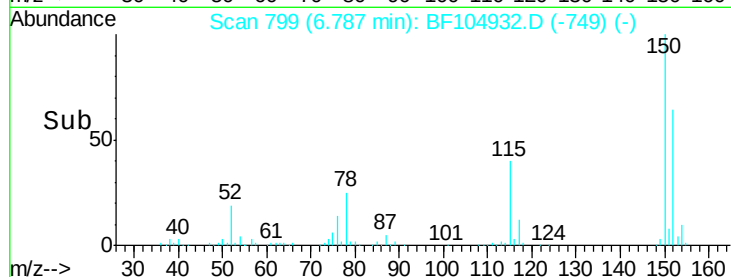
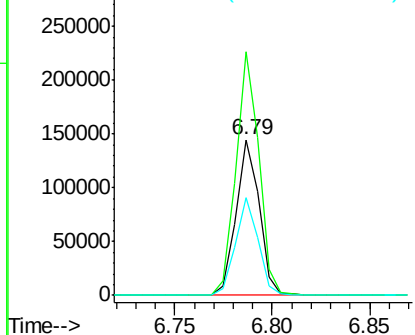
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.79 min Scan# 799  
 Delta R.T. -0.01 min  
 Lab File: BF104932.D  
 Acq: 30 Apr 2018 15:00

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 118964  
 Ion Ratio Lower Upper  
 152 100  
 150 156.2 124.6 186.8  
 115 62.8 50.1 75.1



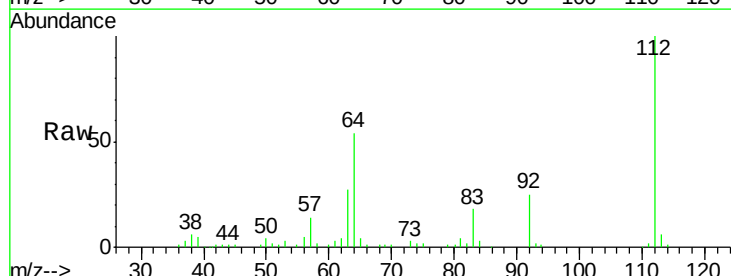
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



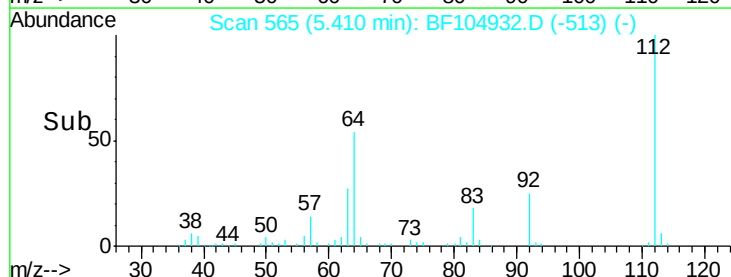
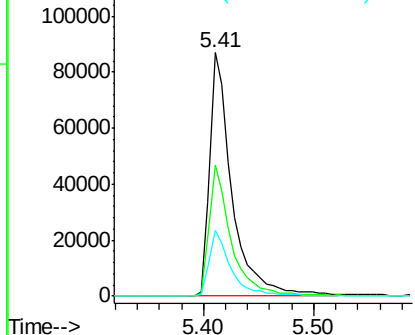
#5

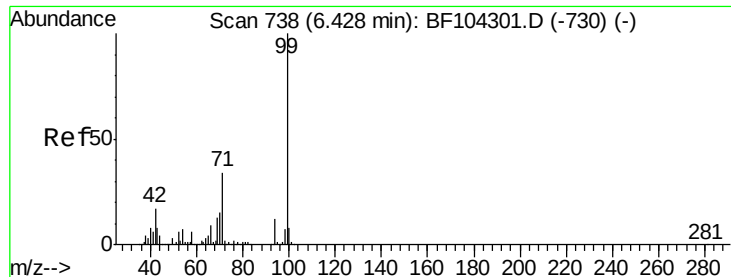
2-Fluorophenol  
 Concen: 15.423 ng  
 RT: 5.41 min Scan# 565  
 Delta R.T. 0.01 min  
 Lab File: BF104932.D  
 Acq: 30 Apr 2018 15:00

Tgt Ion:112 Resp: 119997  
 Ion Ratio Lower Upper  
 112 100  
 64 53.6 47.9 71.9  
 63 26.8 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: 19.745 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

Instrument :

BNA\_F

ClientSampleId :

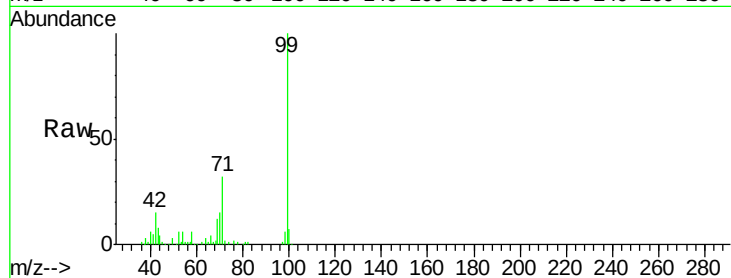
Tot Ion: 99 Resp: 188751

Ion Ratio Lower Upper

99 100

42 15.5 14.5 21.7

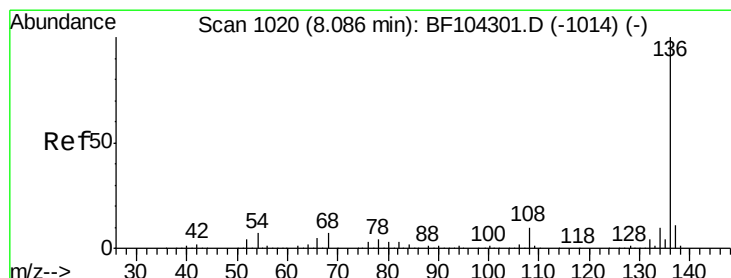
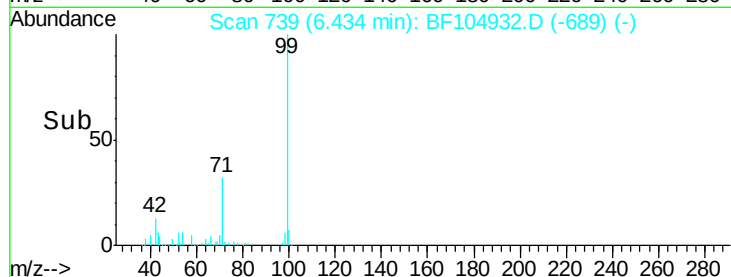
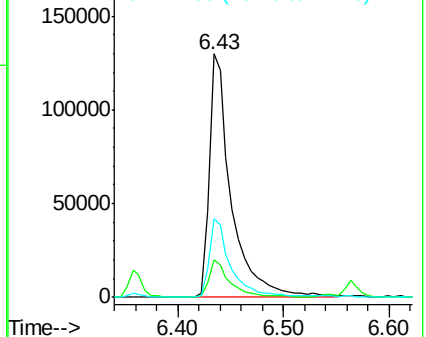
71 32.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

Tgt Ion: 136 Resp: 486888

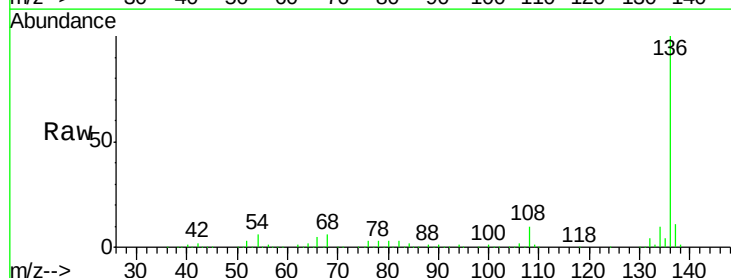
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 6.1 6.6 9.8#

68 5.6 5.0 7.4

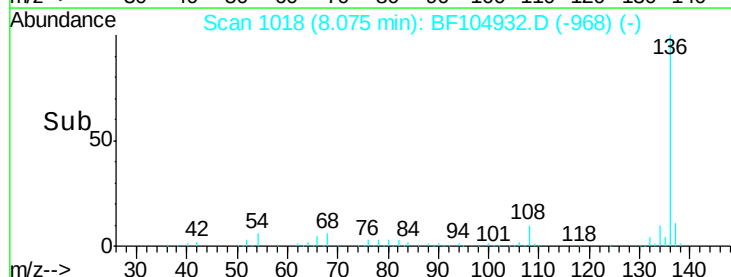
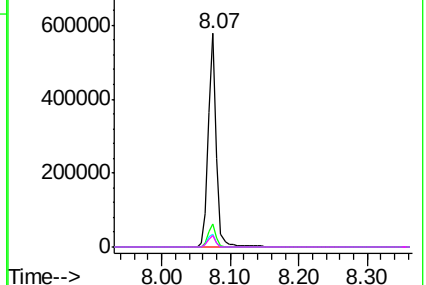


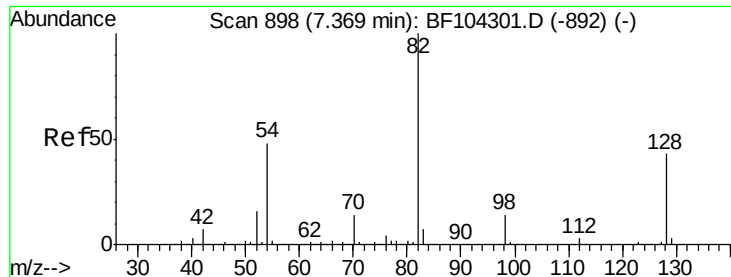
Abundance Ion 136.00 (135.70 to 136.70): E

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

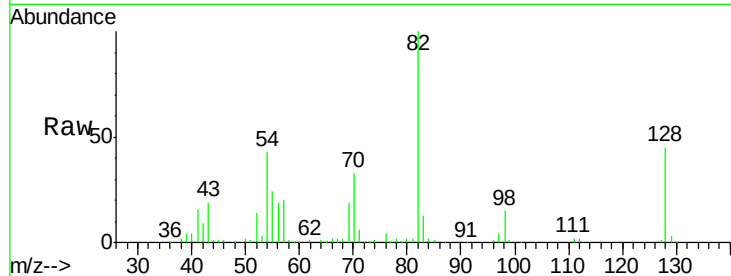




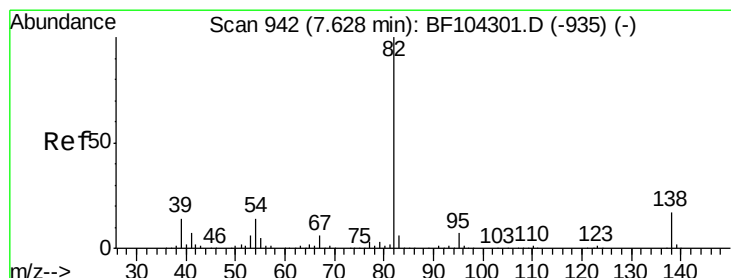
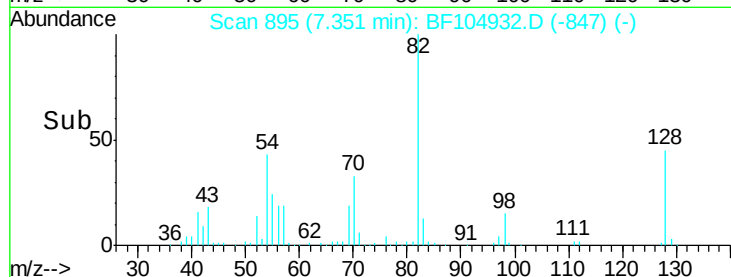
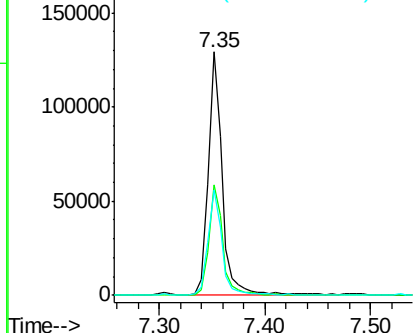
#23  
Nitrobenzene-d5  
Concen: 16.111 ng  
RT: 7.35 min Scan# 895  
Delta R.T. -0.02 min  
Lab File: BF104932.D  
Acq: 30 Apr 2018 15:00

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion   | 82   | Resp | 120  | 132  |
|-----------|------|------|------|------|
| Ion Ratio | 100  |      |      |      |
| Lower     | 36.1 |      |      |      |
| Upper     | 54.1 |      |      |      |
| 54        | 43.4 |      | 41.4 | 62.2 |

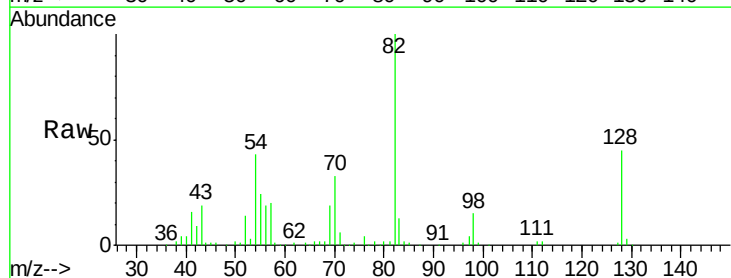


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

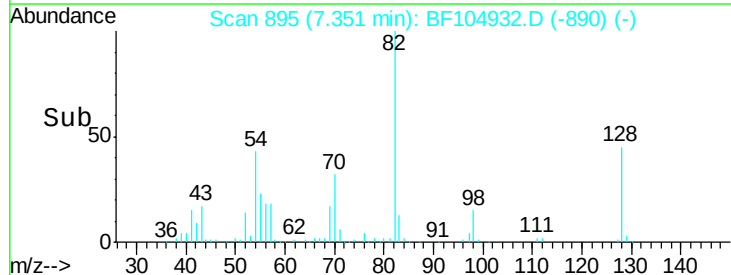
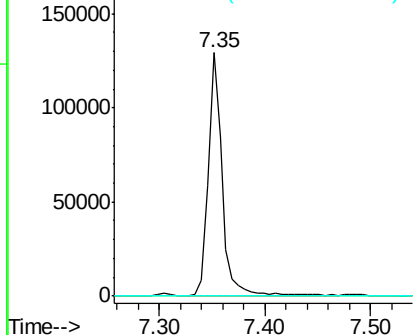


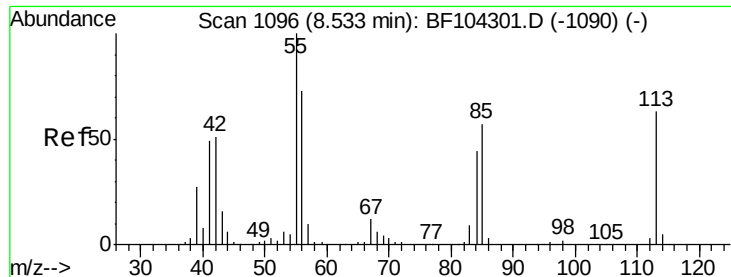
#25  
Isophorone  
Concen: 7.619 ng  
RT: 7.35 min Scan# 895  
Delta R.T. -0.27 min  
Lab File: BF104932.D  
Acq: 30 Apr 2018 15:00

| Tgt Ion   | 82   | Resp | 120  | 132   |
|-----------|------|------|------|-------|
| Ion Ratio | 100  |      |      |       |
| Lower     | 5.2  |      |      |       |
| Upper     | 7.8# |      |      |       |
| 95        | 0.0  |      | 14.9 | 22.3# |
| 138       | 0.0  |      |      |       |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

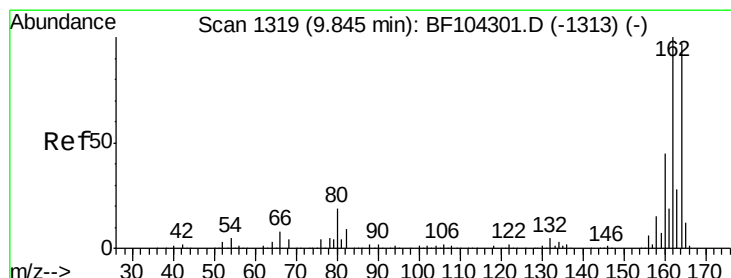
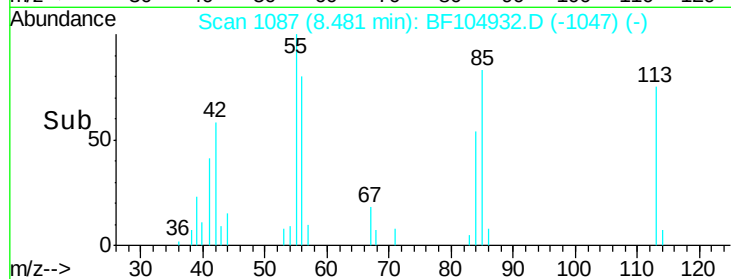
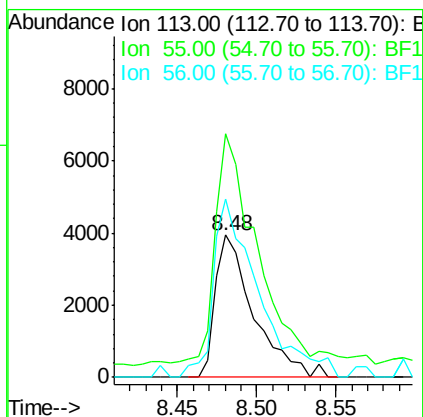
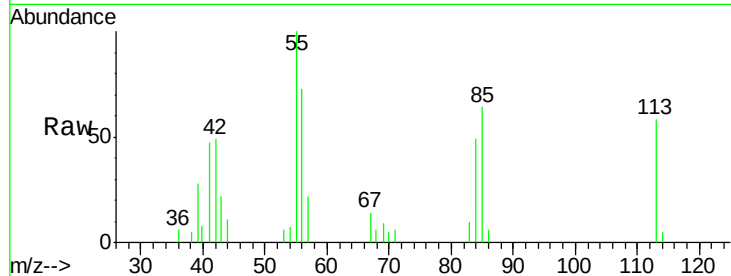




#35  
 Caprolactam  
 Concen: 2.857 ng  
 RT: 8.48 min Scan# 1087  
 Delta R.T. -0.06 min  
 Lab File: BF104932.D  
 Acq: 30 Apr 2018 15:00

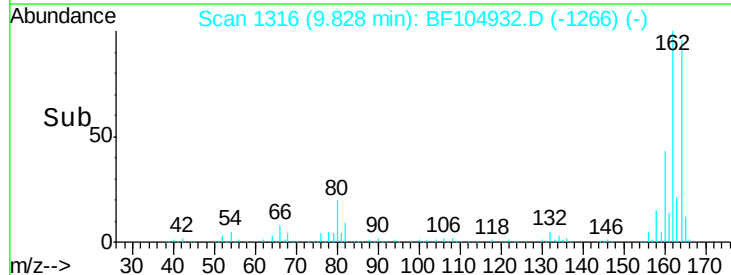
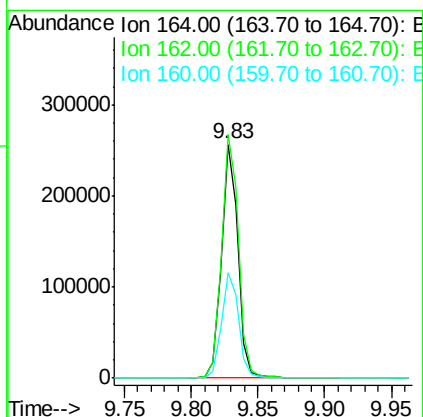
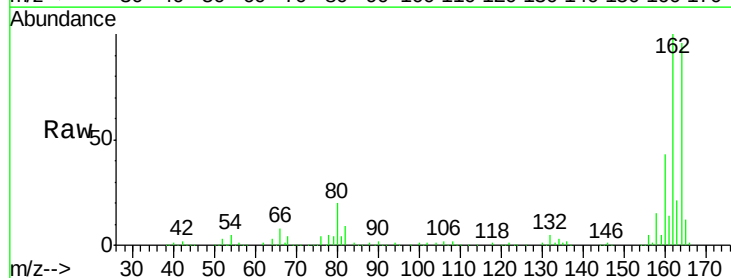
Instrument :  
 BNA\_F  
 ClientSampleId :

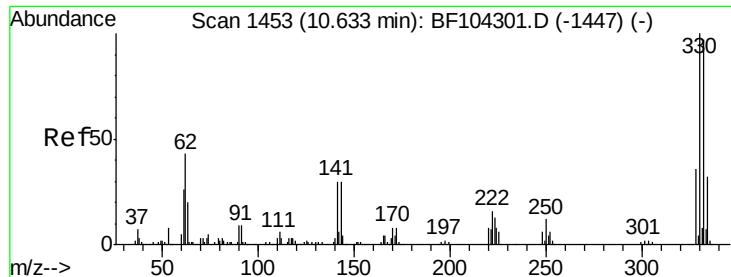
Tot Ion:113 Resp: 6618  
 Ion Ratio Lower Upper  
 113 100  
 55 171.2 163.3 203.3  
 56 125.1 115.7 155.7



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.01 min  
 Lab File: BF104932.D  
 Acq: 30 Apr 2018 15:00

Tgt Ion:164 Resp: 224370  
 Ion Ratio Lower Upper  
 164 100  
 162 104.3 86.1 129.1  
 160 45.2 38.3 57.5





#41

2,4,6-Tribromophenol

Concen: 5.655 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

Instrument :

BNA\_F

ClientSampleId :

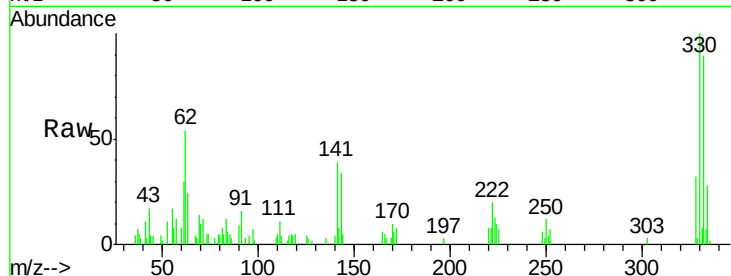
Tot Ion:330 Resp: 13162

Ion Ratio Lower Upper

330 100

332 95.8 77.0 115.6

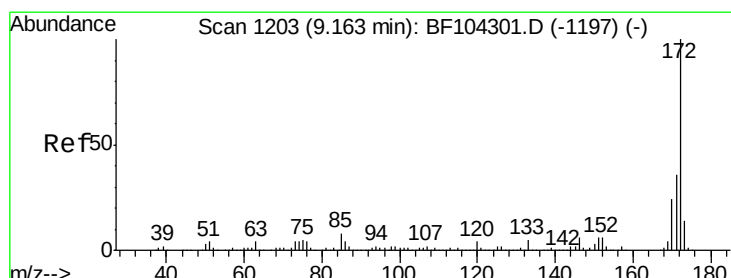
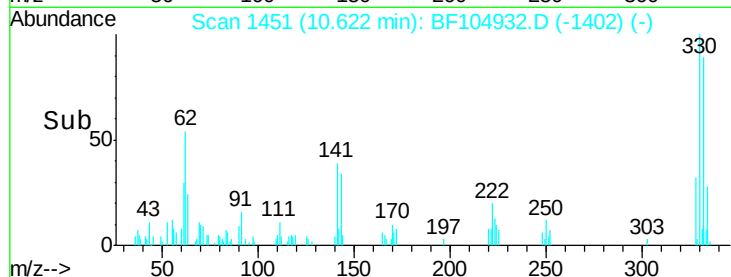
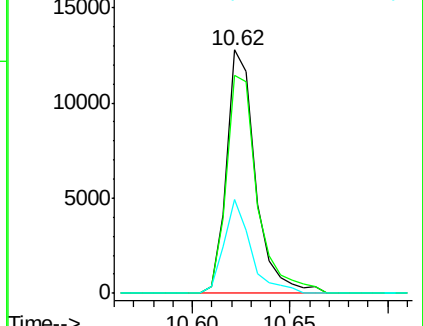
141 35.9 29.9 44.9



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: 17.980 ng

RT: 9.15 min Scan# 1200

Delta R.T. -0.01 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

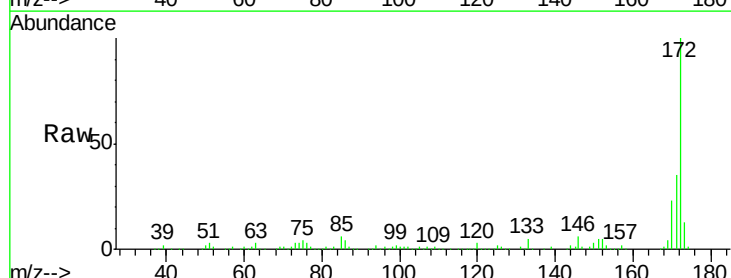
Tgt Ion:172 Resp: 255368

Ion Ratio Lower Upper

172 100

171 35.2 29.7 44.5

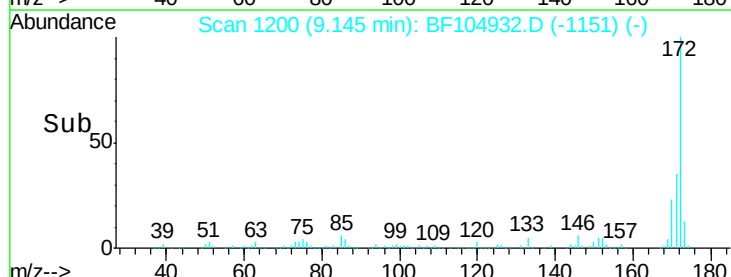
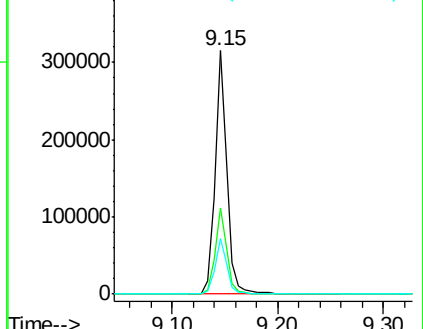
170 22.6 19.6 29.4

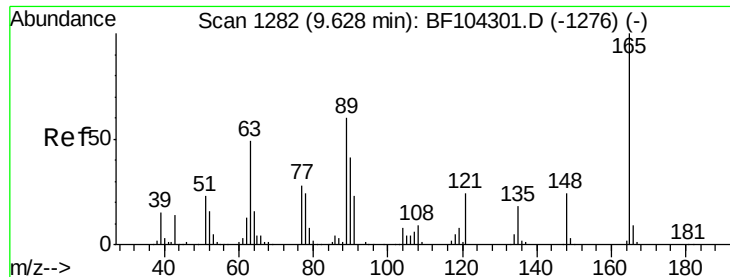


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

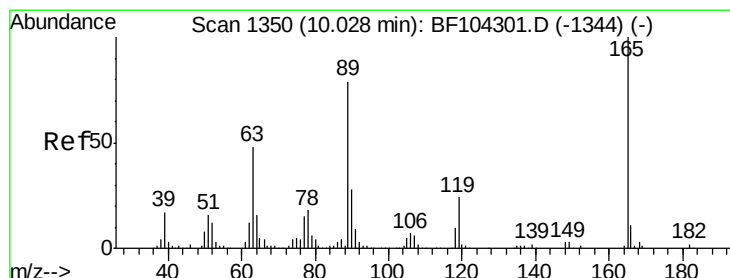
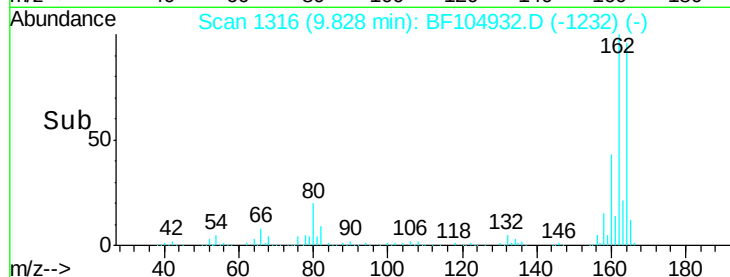
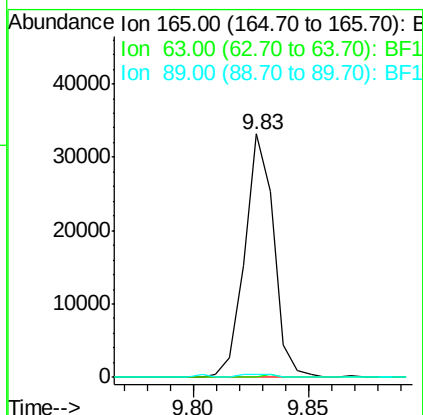
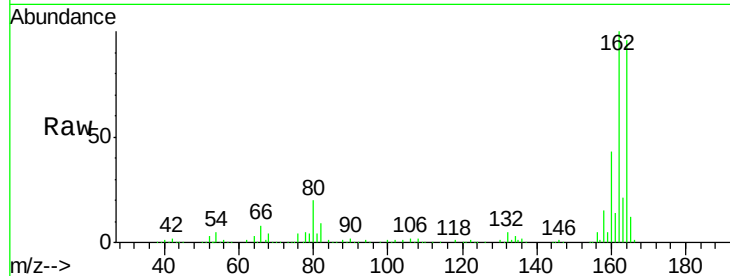




#50  
 2,6-Dinitrotoluene  
 Concen: 8.881 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. 0.19 min  
 Lab File: BF104932.D  
 Acq: 30 Apr 2018 15:00

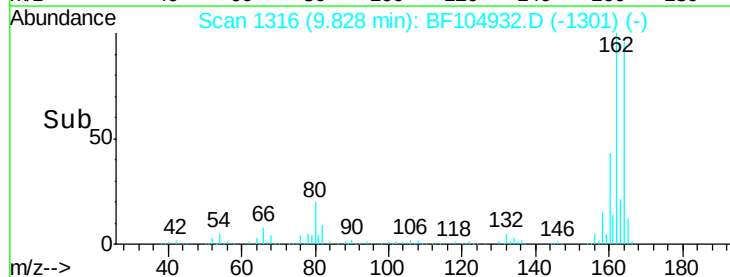
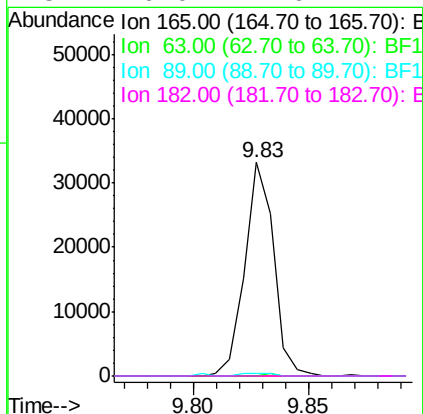
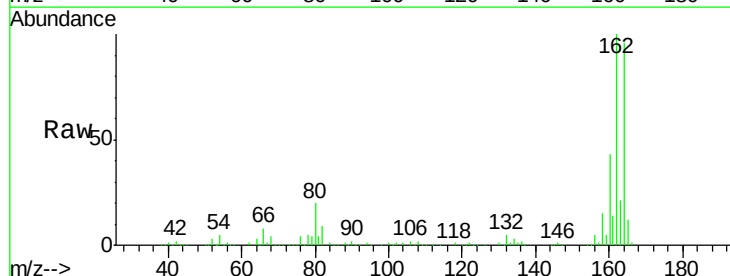
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 1.3   | 44.0  | 66.0# |

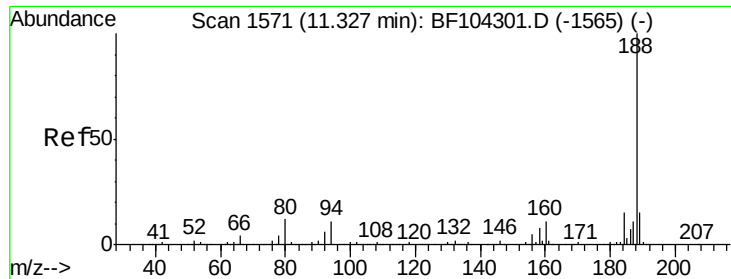


#56  
 2,4-Dinitrotoluene  
 Concen: 6.771 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.21 min  
 Lab File: BF104932.D  
 Acq: 30 Apr 2018 15:00

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



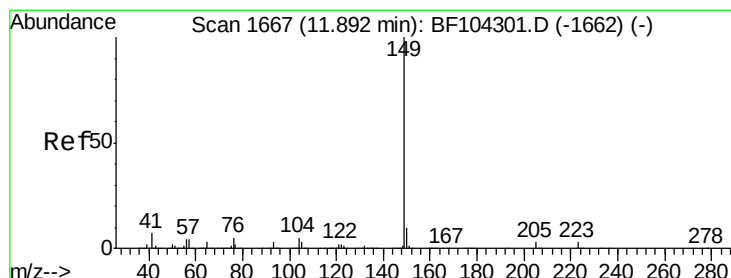
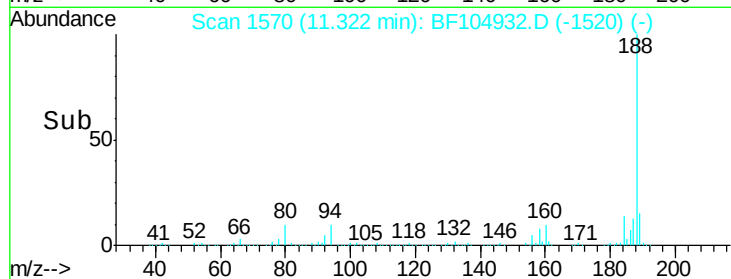
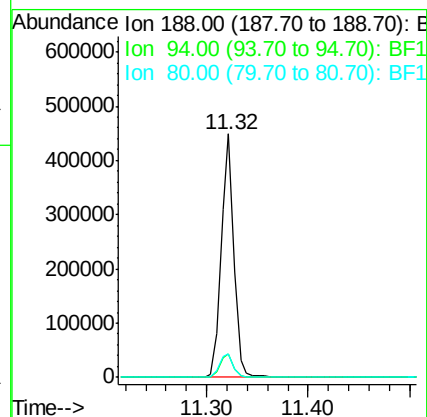
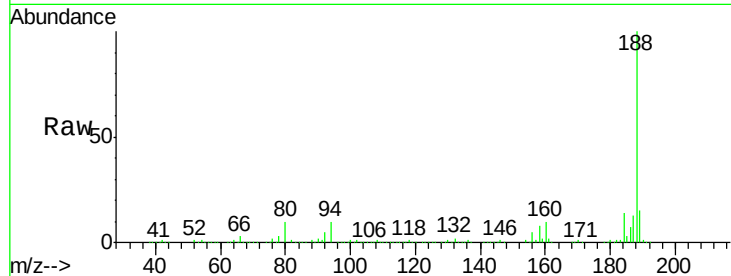




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BF104932.D  
Acq: 30 Apr 2018 15:00

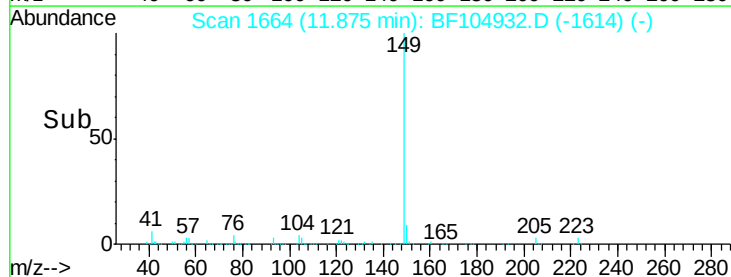
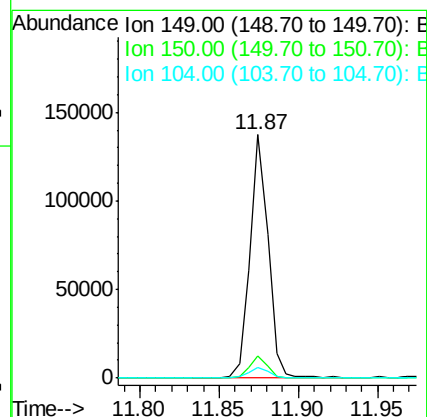
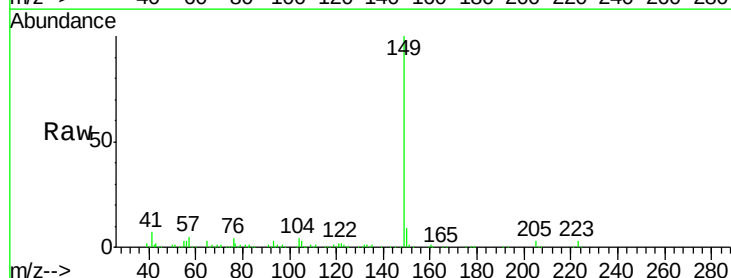
Instrument :  
BNA\_F  
ClientSampleId :

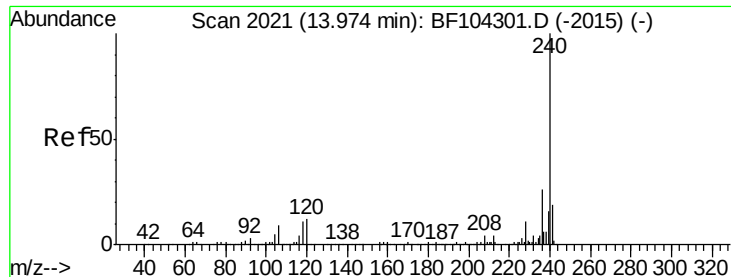
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 8.5   | 12.7  |
| 80      | 9.8   | 9.2   | 13.8  |



#73  
Di-n-butylphthalate  
Concen: 4.161 ng  
RT: 11.87 min Scan# 1664  
Delta R.T. -0.01 min  
Lab File: BF104932.D  
Acq: 30 Apr 2018 15:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.2   | 7.8   | 11.6  |
| 104     | 4.3   | 3.8   | 5.8   |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. 0.00 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

Instrument :

BNA\_F

ClientSampleId :

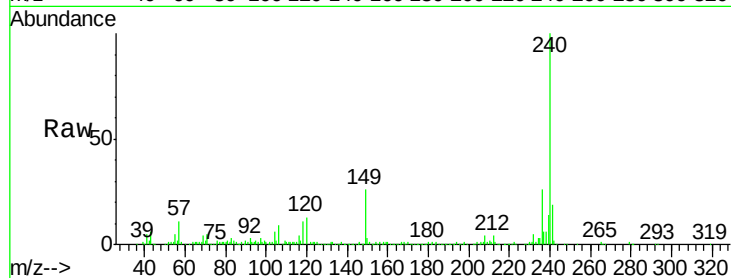
Tot Ion:240 Resp: 236862

Ion Ratio Lower Upper

240 100

120 12.7 9.5 14.3

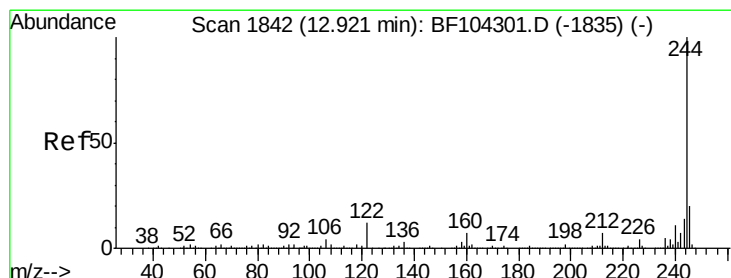
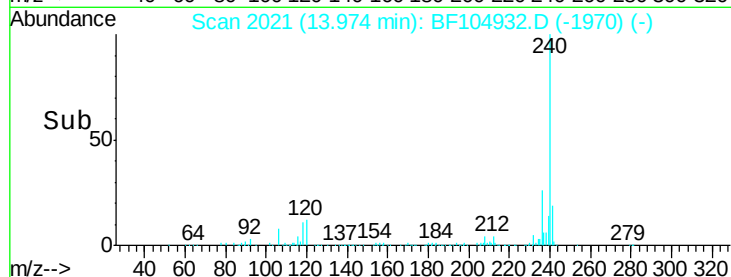
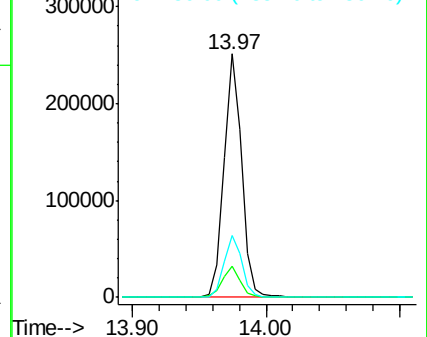
236 25.5 20.7 31.1



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: 20.480 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

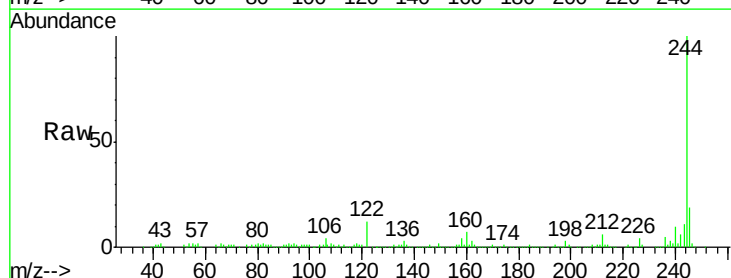
Tgt Ion:244 Resp: 212774

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

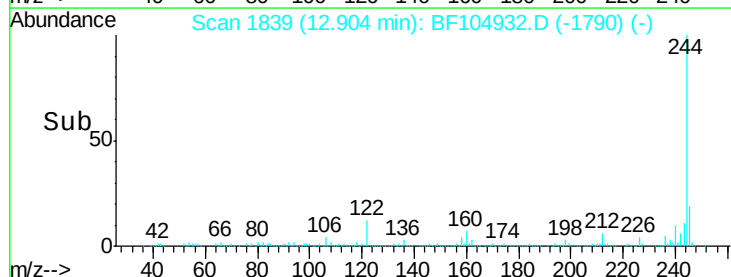
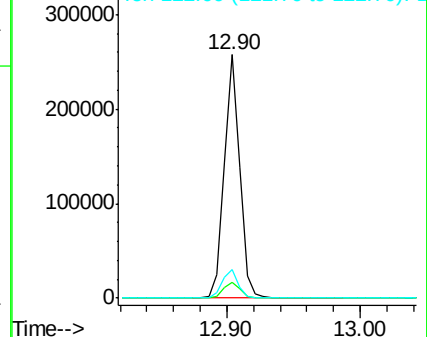
122 11.6 11.0 16.4

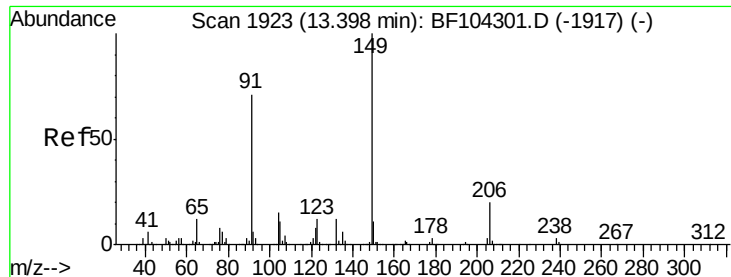


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 59.874 ng

RT: 13.39 min Scan# 1921

Delta R.T. 0.00 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

Instrument :

BNA\_F

ClientSampleId :

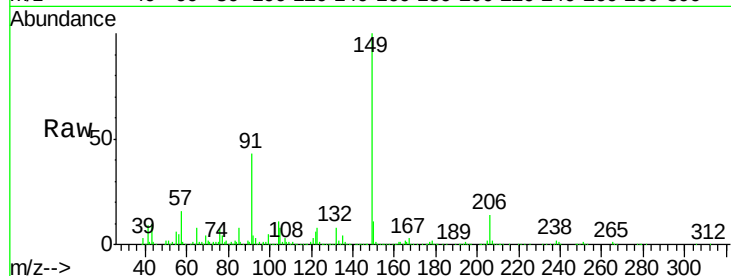
Tot Ion:149 Resp: 495239

Ion Ratio Lower Upper

149 100

91 43.3 56.8 85.2#

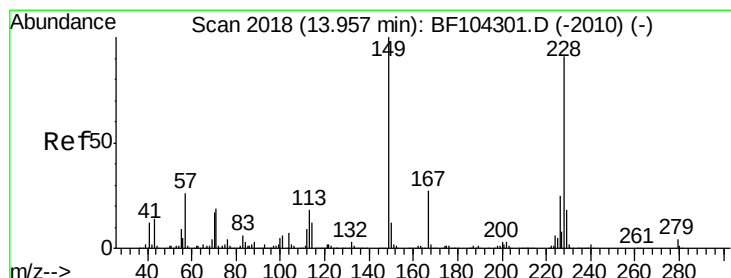
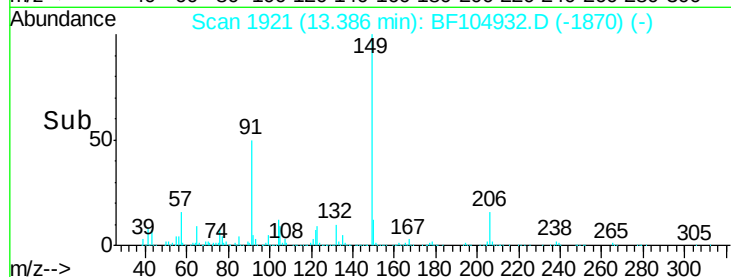
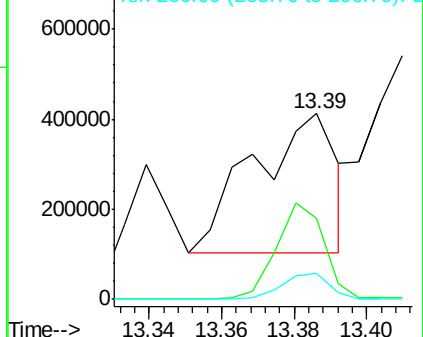
206 13.7 14.1 21.1#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 55.453 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BF104932.D

Acq: 30 Apr 2018 15:00

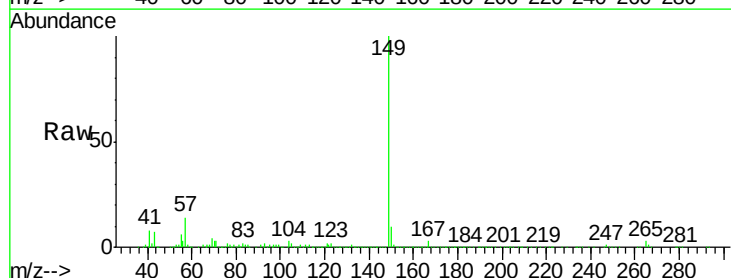
Tgt Ion:149 Resp: 589970

Ion Ratio Lower Upper

149 100

167 2.8 21.3 31.9#

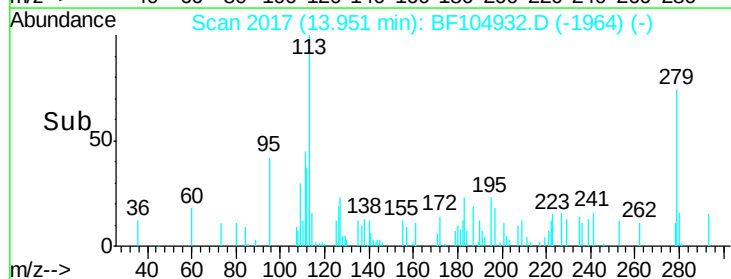
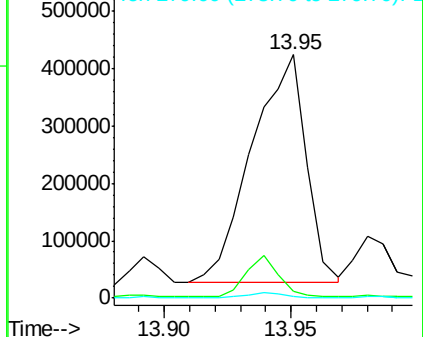
279 0.5 3.0 4.4#

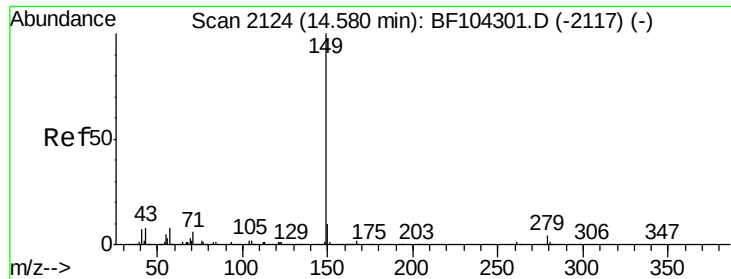


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

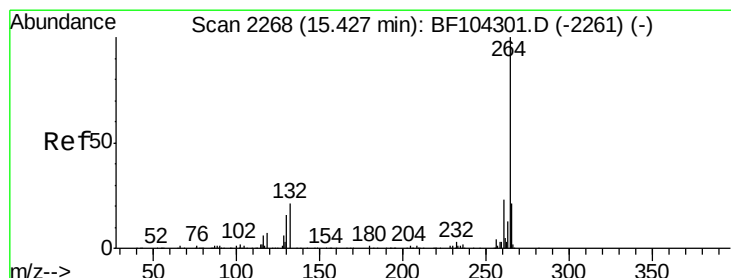
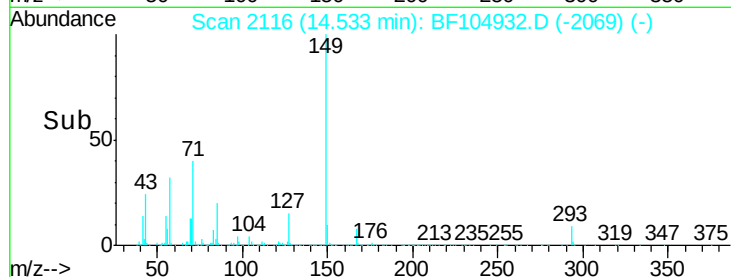
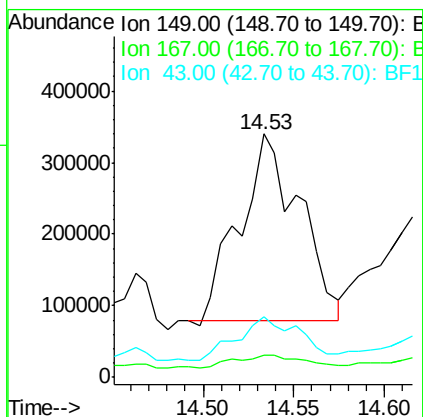
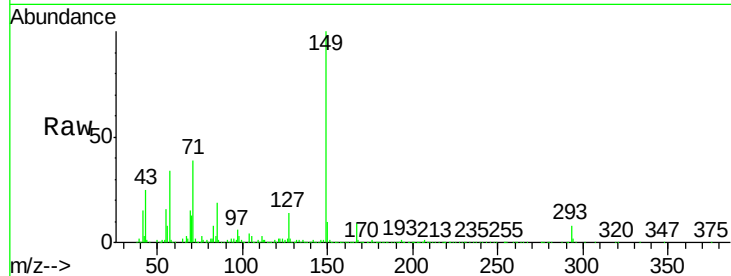




#84  
Di-n-octyl phthalate  
Concen: 34.081 ng  
RT: 14.53 min Scan# 2116  
Delta R.T. -0.02 min  
Lab File: BF104932.D  
Acq: 30 Apr 2018 15:00

Instrument :  
BNA\_F  
ClientSampleID :

Tot Ion:149 Resp: 605857  
Ion Ratio Lower Upper  
149 100  
167 8.8 1.2 1.8#  
43 24.8 8.4 12.6#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2271  
Delta R.T. 0.01 min  
Lab File: BF104932.D  
Acq: 30 Apr 2018 15:00

Tgt Ion:264 Resp: 223067  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.2 28.8  
265 21.1 17.5 26.3

