

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083117\  
 Data File : BF098205.D  
 Acq On : 31 Aug 2017 20:12  
 Operator : SJ/JU  
 Sample : I4963-10  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 01 01:52:46 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

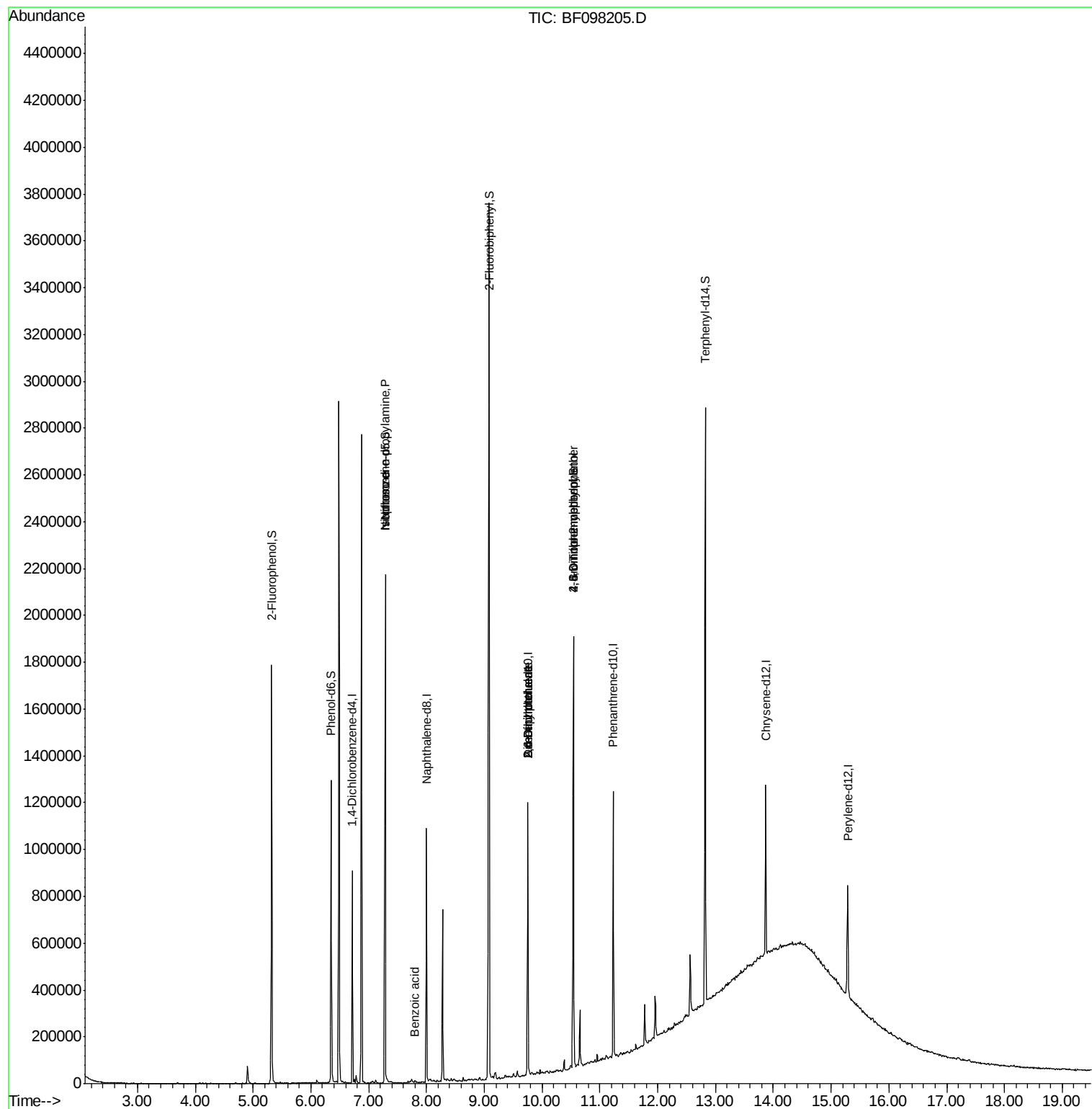
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 115041   | 20.00  | ng    | -0.04    |
| 21) Naphthalene-d8             | 8.00  | 136  | 466326   | 20.00  | ng    | -0.04    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 207959   | 20.00  | ng    | -0.04    |
| 63) Phenanthrene-d10           | 11.23 | 188  | 365225   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 13.87 | 240  | 243295   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.29 | 264  | 221670   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 490729   | 64.88  | ng    | -0.03    |
| 7) Phenol-d6                   | 6.35  | 99   | 427250   | 41.58  | ng    | -0.04    |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 832400   | 96.97  | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 251067   | 139.14 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1243436  | 87.85  | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.82 | 244  | 938661   | 80.45  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 112181   | 15.947 | ng    | # 71     |
| 25) Isophorone                 | 7.29  | 82   | 810414   | 45.403 | ng    | # 67     |
| 32) Benzoic acid               | 7.80  | 122  | 604      | 6.501  | ng    | # 28     |
| 49) Dimethylphthalate          | 9.75  | 163  | 54668    | 3.596  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 26419    | 8.707  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 26419    | 6.938  | ng    | # 34     |
| 64) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 637      | 8.627  | ng    | # 8      |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 16112    | 4.248  | ng    | # 1      |

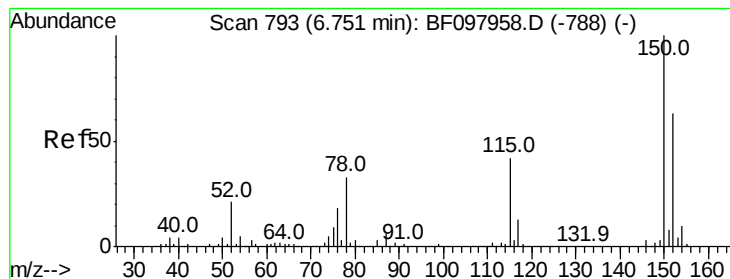
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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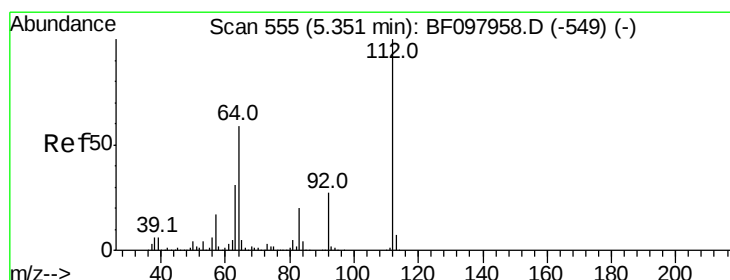
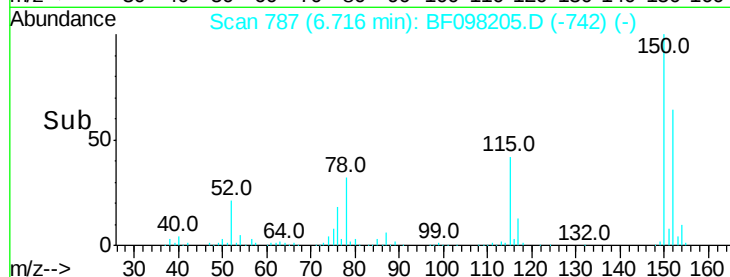
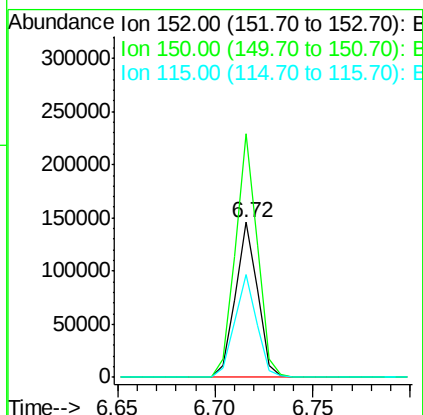
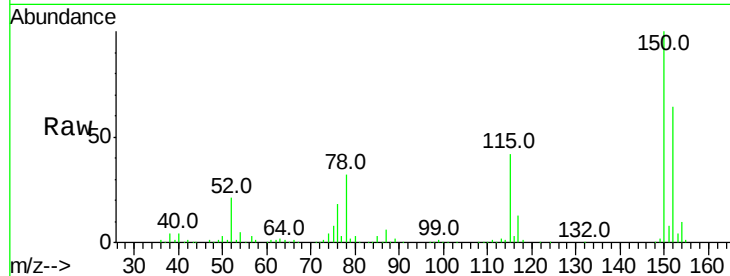


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 787  
Delta R.T. -0.04 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

Instrument :  
BNA\_F  
ClientSampled :

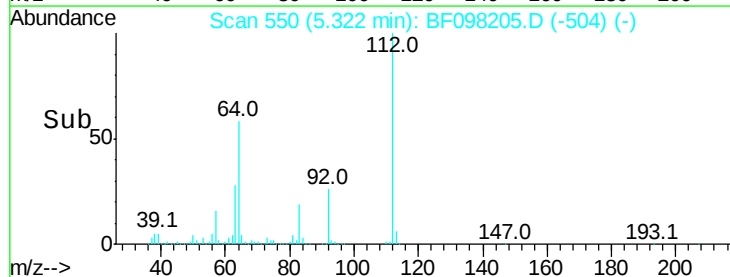
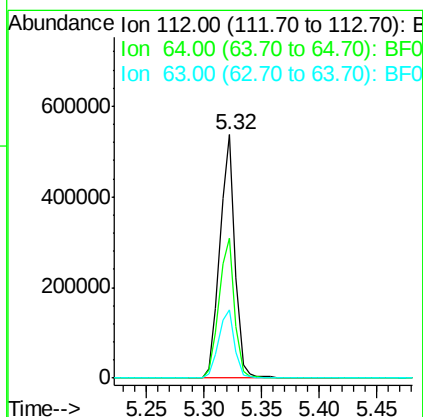
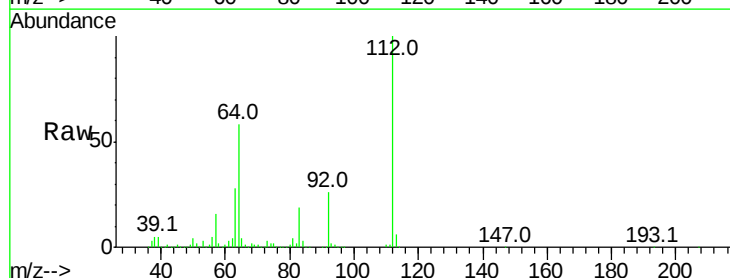
Tot Ion:152 Resp: 115041  
Ion Ratio Lower Upper  
152 100  
150 157.2 126.2 189.2  
115 66.5 52.2 78.2

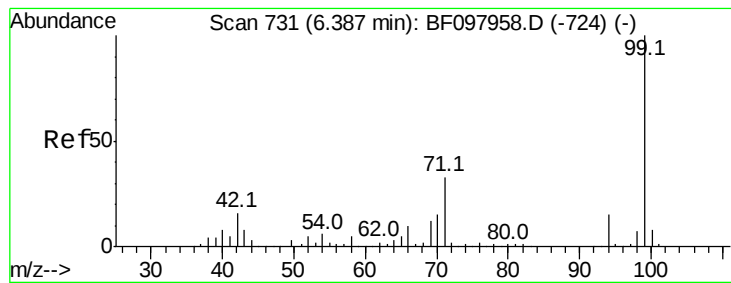


#5

2-Fluorophenol  
Concen: 64.884 ng  
RT: 5.32 min Scan# 550  
Delta R.T. -0.03 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

Tgt Ion:112 Resp: 490729  
Ion Ratio Lower Upper  
112 100  
64 57.5 46.0 69.0  
63 28.2 23.4 35.0





#7

Phenol-d6

Concen: 41.577 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.04 min

Lab File: BF098205.D

Acq: 31 Aug 2017 20:12

Instrument :

BNA\_F

ClientSampleId :

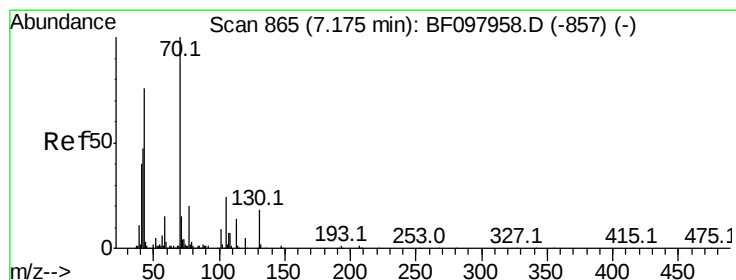
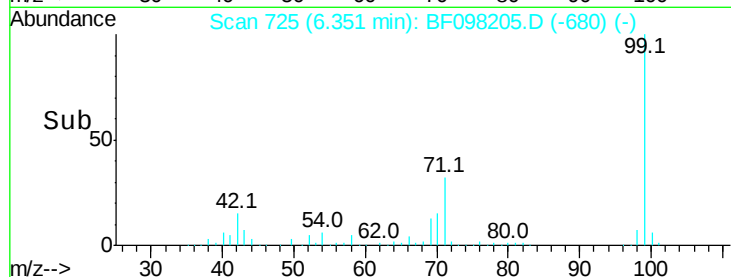
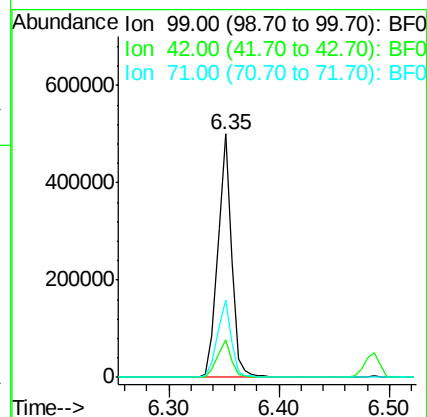
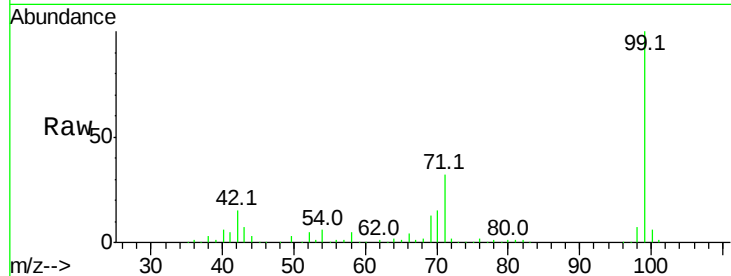
Tot Ion: 99 Resp: 427250

Ion Ratio Lower Upper

99 100

42 15.3 13.5 20.3

71 31.6 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 15.947 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.11 min

Lab File: BF098205.D

Acq: 31 Aug 2017 20:12

Tgt Ion: 70 Resp: 112181

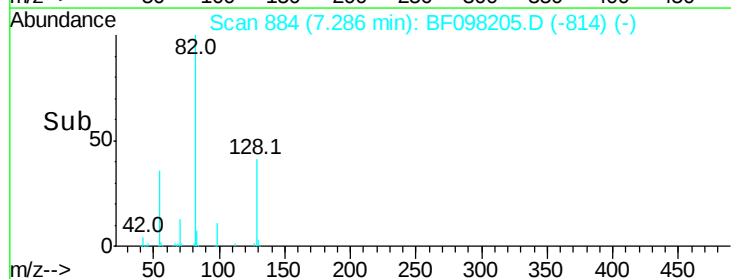
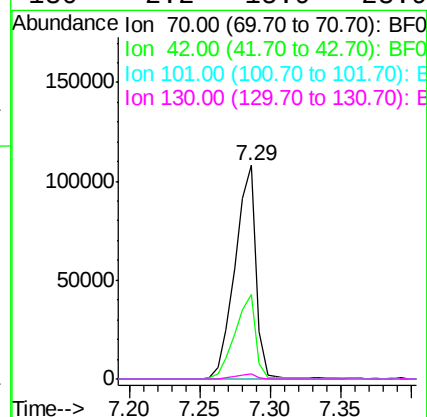
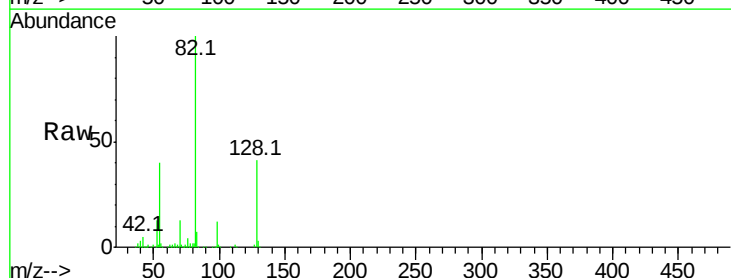
Ion Ratio Lower Upper

70 100

42 39.3 47.2 70.8#

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

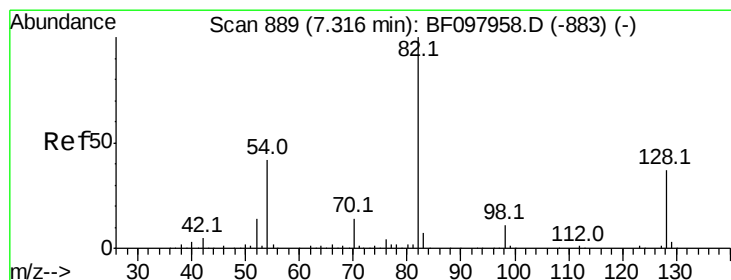
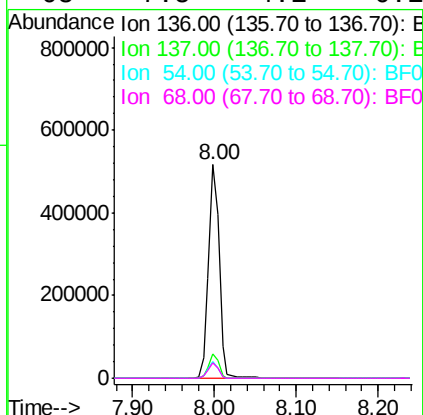
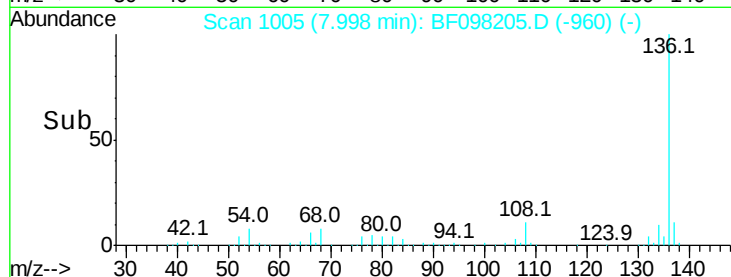
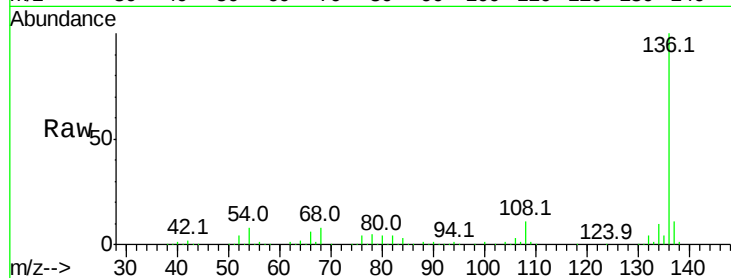




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.04 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

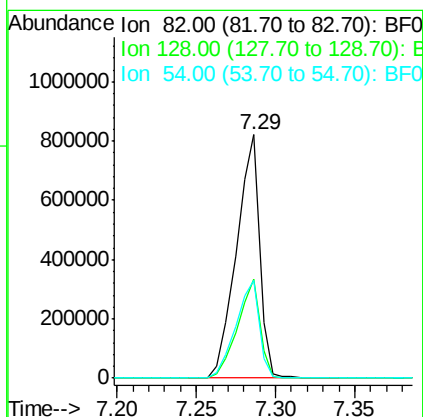
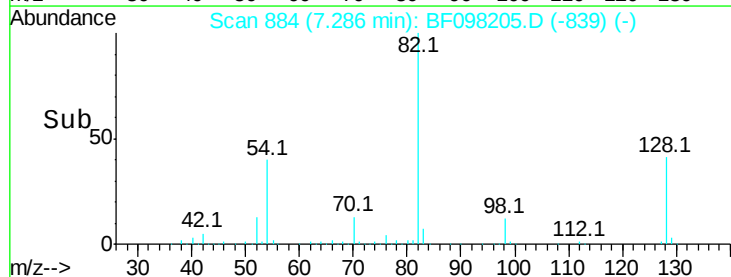
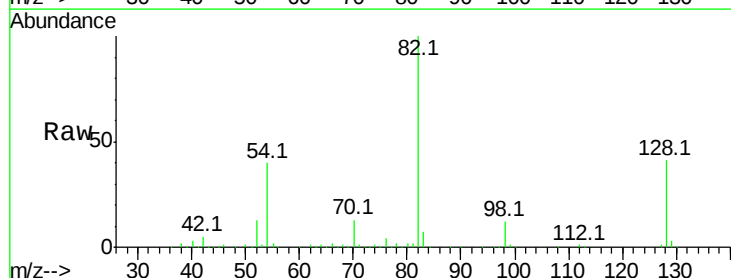
Instrument :  
BNA\_F  
ClientSampleId :

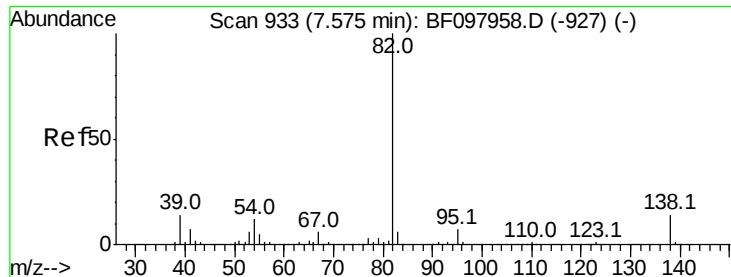
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 466326 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.5   | 12.7   |
| 54       | 8.0   | 4.9   | 7.3#   |
| 68       | 7.5   | 4.1   | 6.1#   |



#23  
Nitrobenzene-d5  
Concen: 96.970 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.04 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 832400 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.5  | 34.0  | 51.0   |
| 54       | 40.0  | 42.2  | 63.2#  |

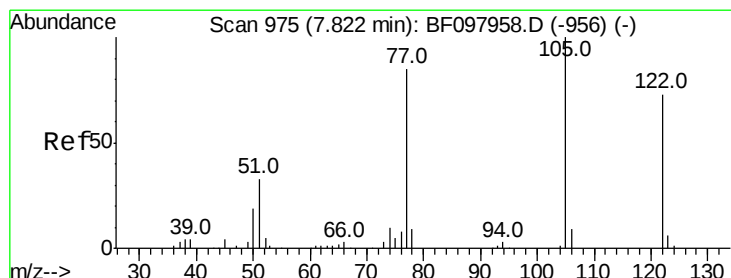
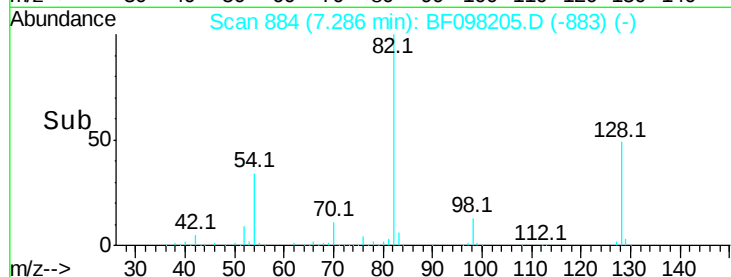
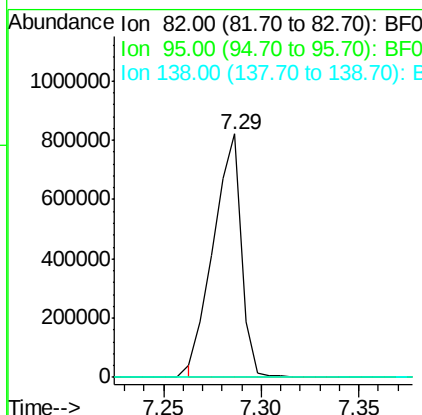
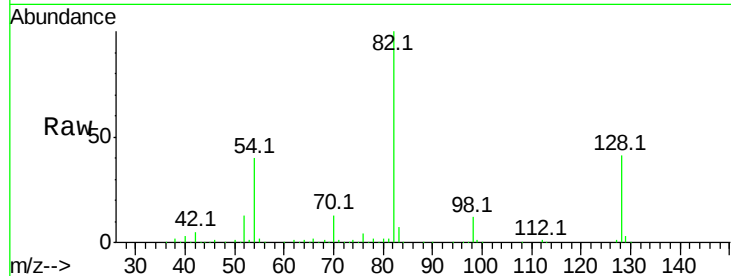




#25  
Isophorone  
Concen: 45.403 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.29 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

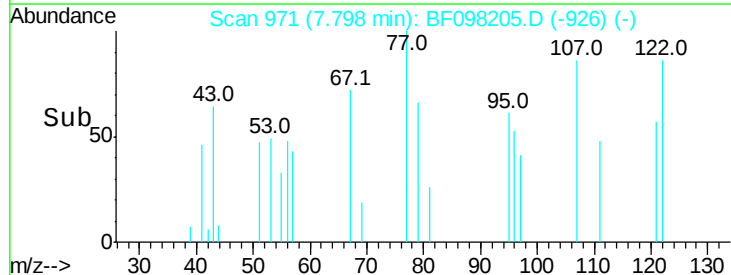
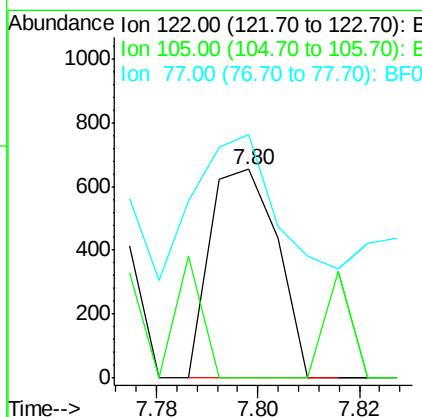
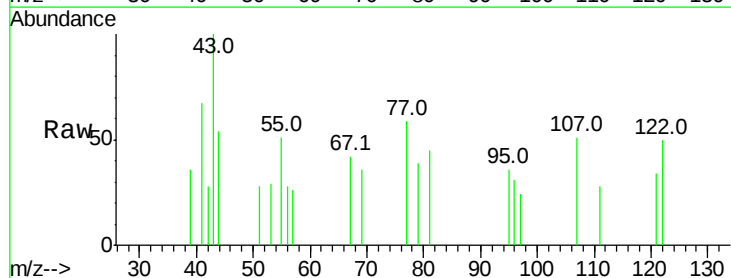
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BNA\_F  
ClientSampleId :

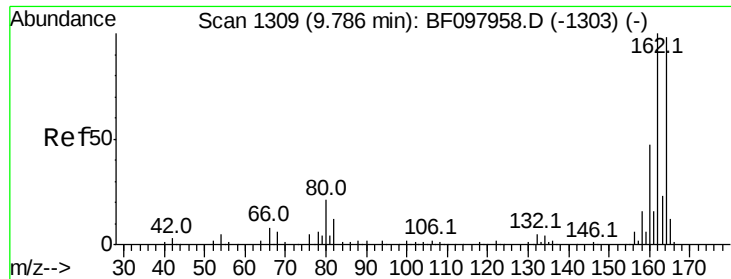
Tot Ion: 82 Resp: 810414  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.3 7.9#  
138 0.0 13.1 19.7#



#32  
Benzoic acid  
Concen: 6.501 ng  
RT: 7.80 min Scan# 971  
Delta R.T. -0.04 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

Tgt Ion:122 Resp: 604  
Ion Ratio Lower Upper  
122 100  
105 0.0 103.3 143.3#  
77 116.5 73.7 113.7#

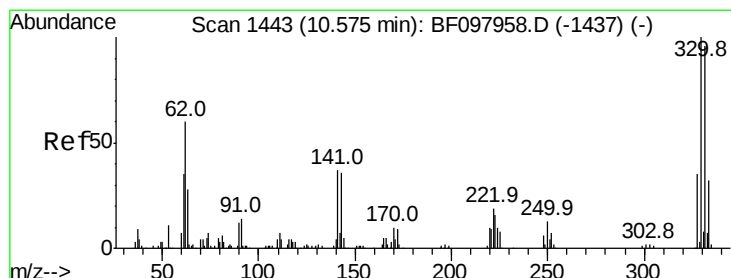
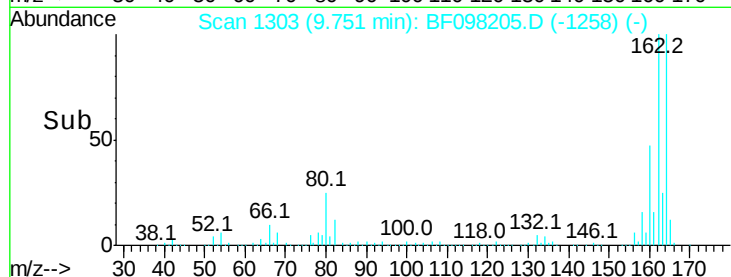
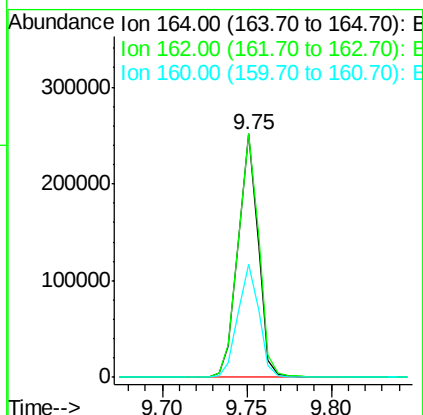
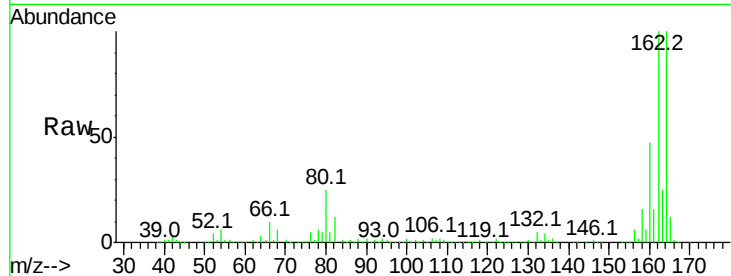




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. -0.04 min  
 Lab File: BF098205.D  
 Acq: 31 Aug 2017 20:12

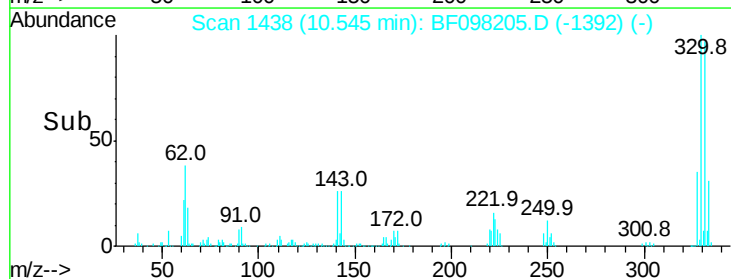
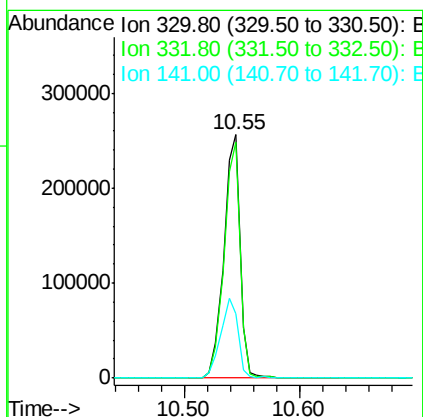
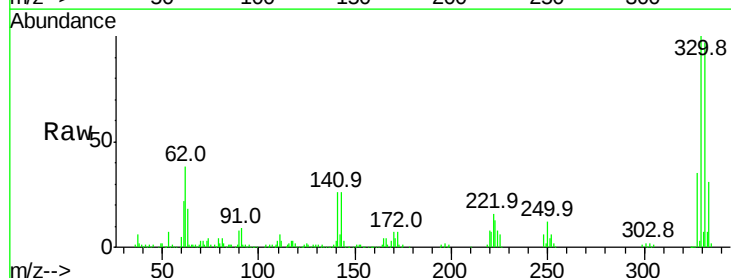
Instrument :  
 BNA\_F  
 ClientSampleId :

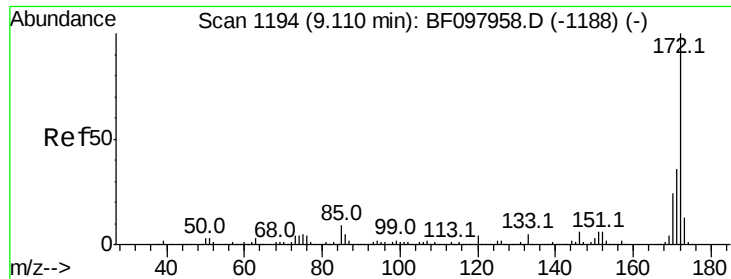
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.9  | 82.6  | 123.8 |
| 160     | 46.7  | 36.2  | 54.2  |



#41  
 2,4,6-Tribromophenol  
 Concen: 139.143 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.03 min  
 Lab File: BF098205.D  
 Acq: 31 Aug 2017 20:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.1  | 76.6  | 115.0 |
| 141     | 35.9  | 31.4  | 47.2  |

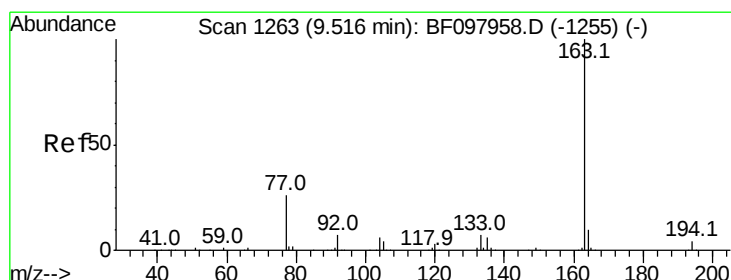
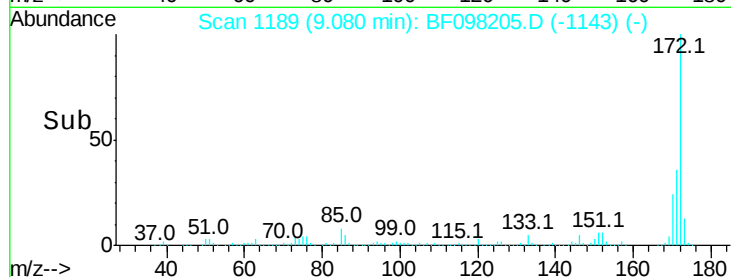
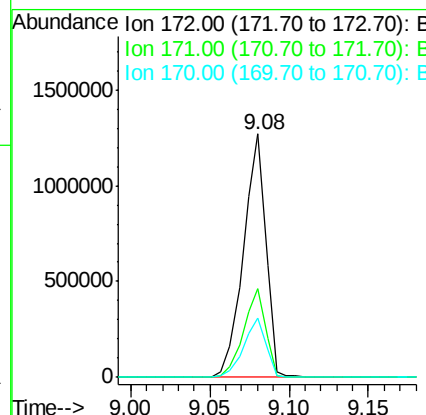
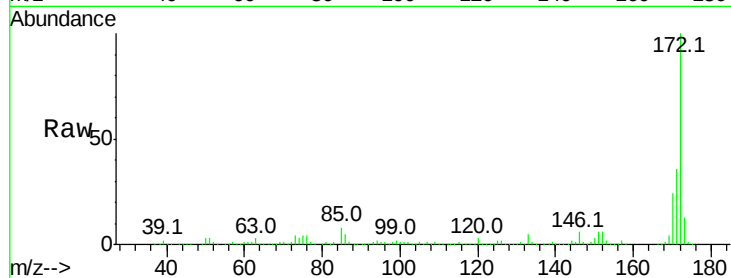




#44  
2-Fluorobiphenyl  
Concen: 87.847 ng  
RT: 9.08 min Scan# 1189  
Delta R.T. -0.03 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

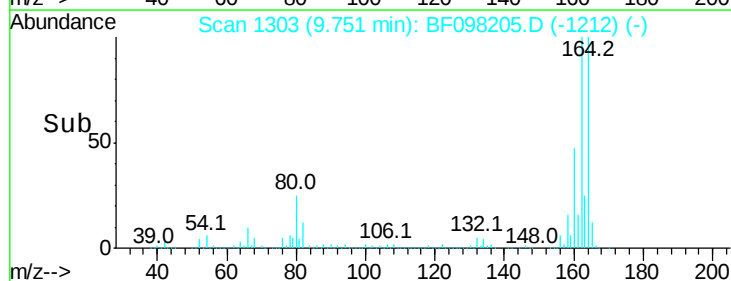
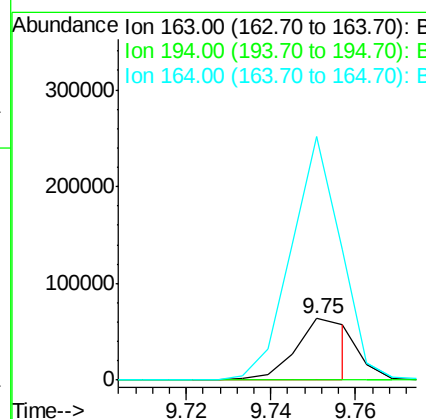
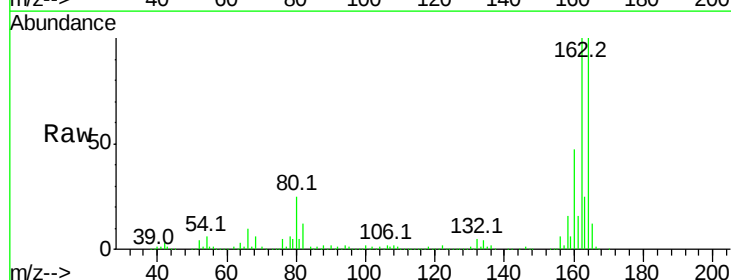
Instrument :  
BNA\_F  
ClientSampleId :

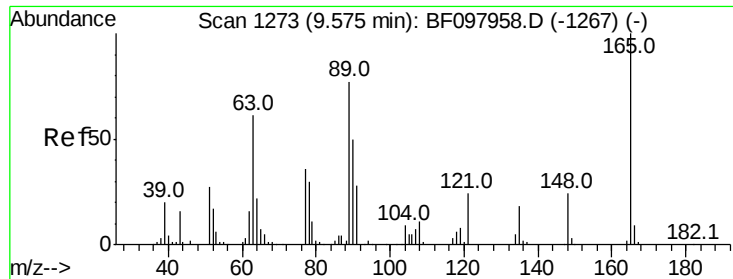
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Ion Ratio Lower Upper  
172 100  
171 36.5 29.6 44.4  
170 24.2 19.8 29.8



#49  
Dimethylphthalate  
Concen: 3.596 ng  
RT: 9.75 min Scan# 1303  
Delta R.T. 0.24 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

Tgt Ion:163 Resp: 54668  
Ion Ratio Lower Upper  
163 100  
194 0.0 2.6 4.0#  
164 395.6 8.4 12.6#

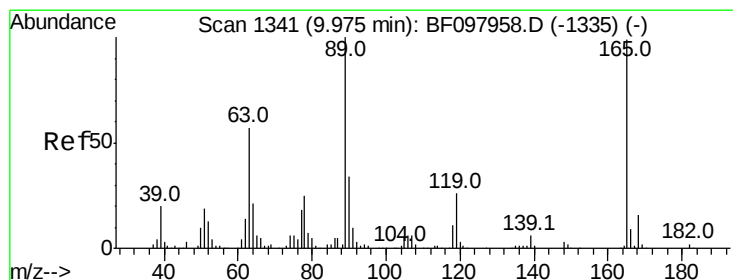
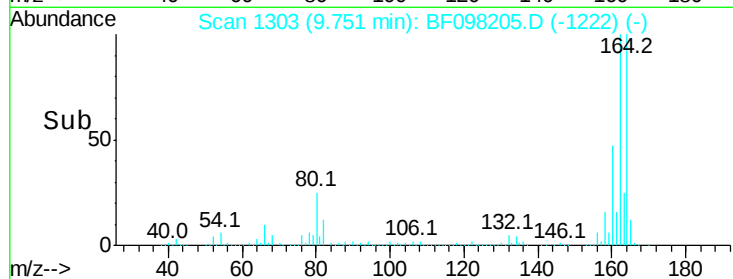
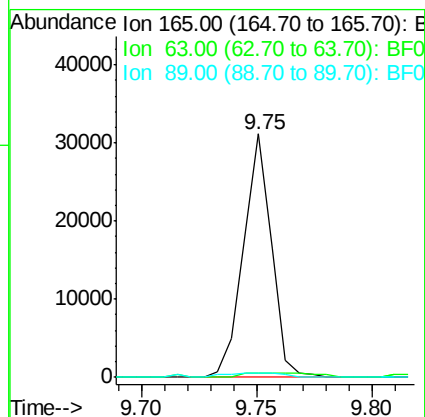
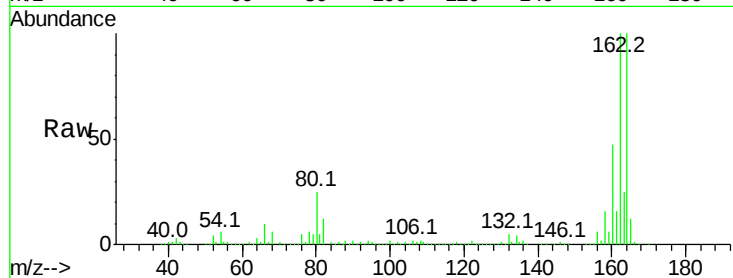




#50  
 2,6-Dinitrotoluene  
 Concen: 8.707 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. 0.18 min  
 Lab File: BF098205.D  
 Acq: 31 Aug 2017 20:12

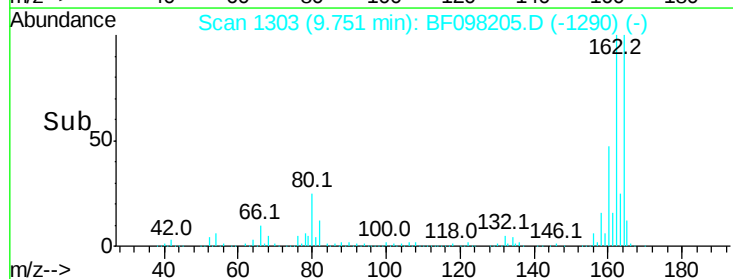
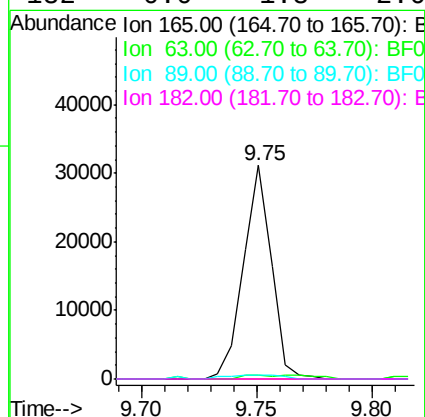
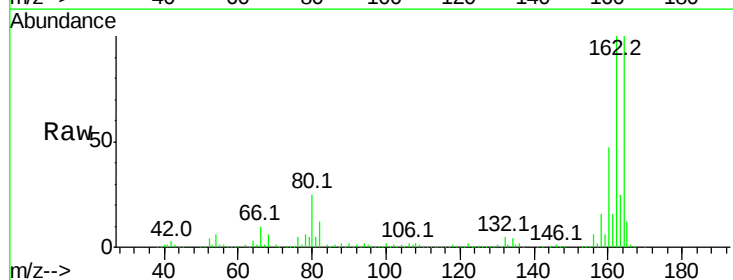
Instrument :  
 BNA\_F  
 ClientSampleId :

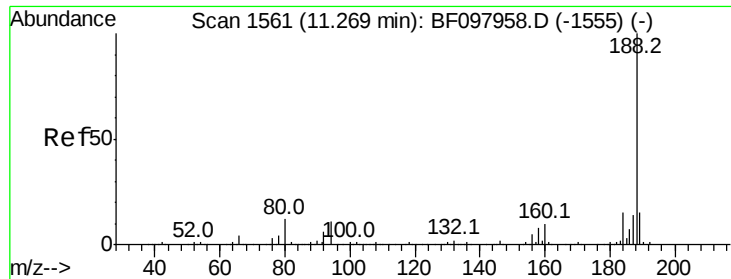
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 34.3  | 51.5# |
| 89      | 1.9   | 37.1  | 55.7# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.938 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. -0.22 min  
 Lab File: BF098205.D  
 Acq: 31 Aug 2017 20:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 25.4  | 38.0# |
| 89      | 1.9   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

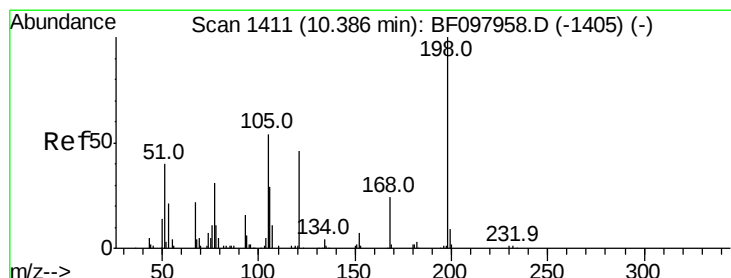
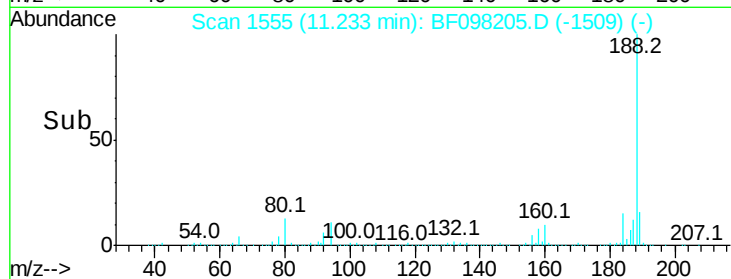
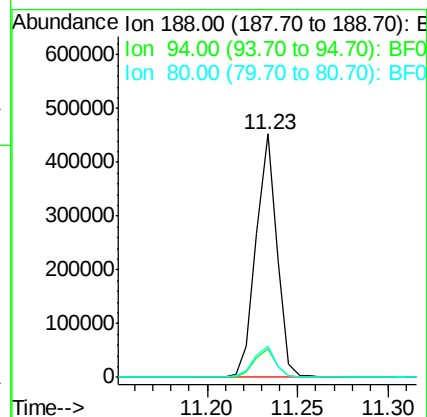
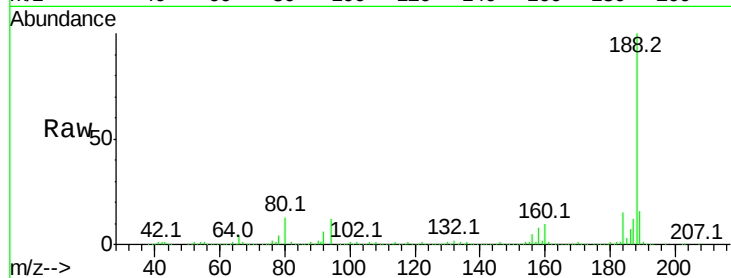




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1555  
Delta R.T. -0.03 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

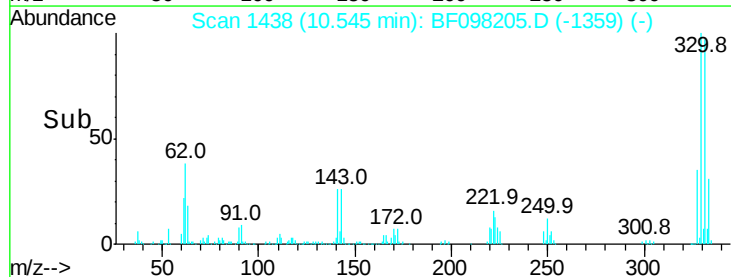
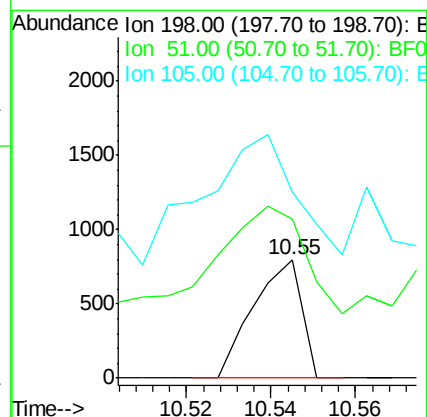
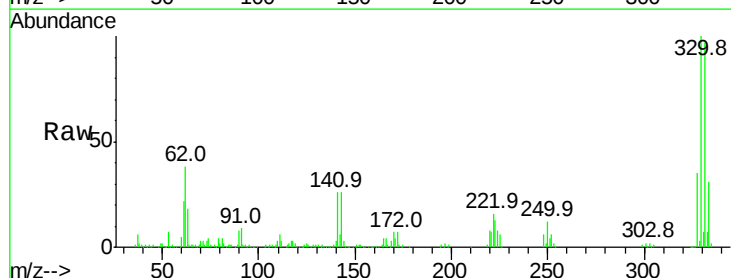
Instrument :  
BNA\_F  
ClientSampleId :

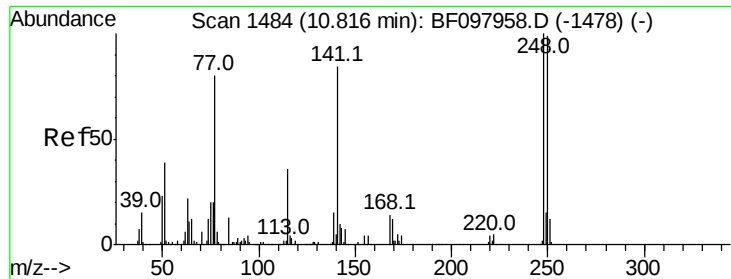
Tot Ion:188 Resp: 365225  
Ion Ratio Lower Upper  
188 100  
94 11.6 9.4 14.2  
80 12.7 10.2 15.2



#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.627 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. 0.16 min  
Lab File: BF098205.D  
Acq: 31 Aug 2017 20:12

Tgt Ion:198 Resp: 637  
Ion Ratio Lower Upper  
198 100  
51 134.1 53.2 93.2#  
105 156.6 45.8 85.8#

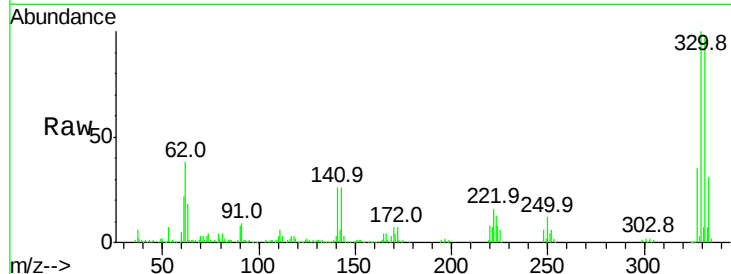




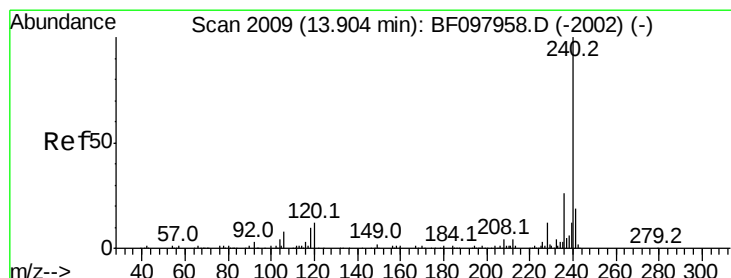
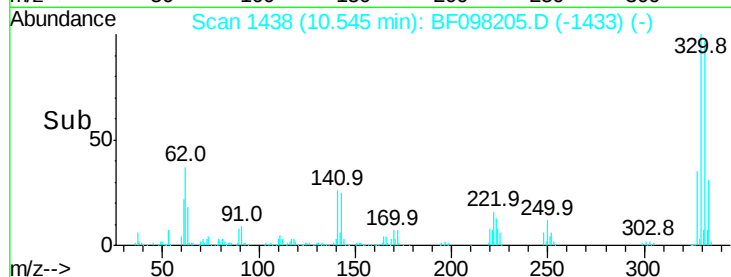
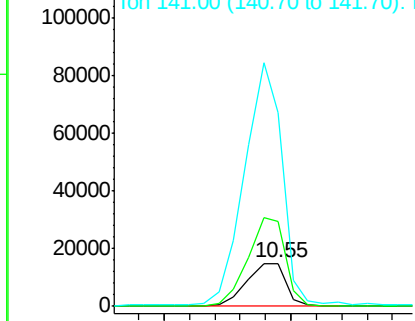
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.248 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.27 min  
 Lab File: BF098205.D  
 Acq: 31 Aug 2017 20:12

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 16112  
 Ion Ratio Lower Upper  
 248 100  
 250 199.2 76.8 115.2#  
 141 452.6 68.6 103.0#

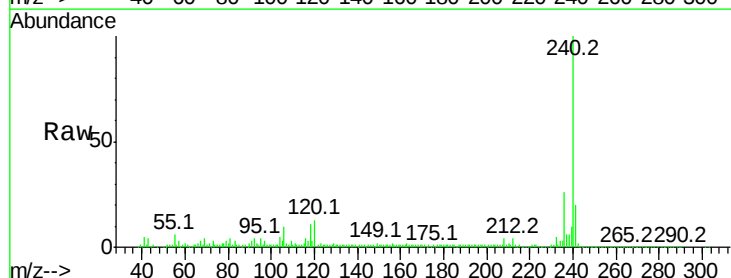


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

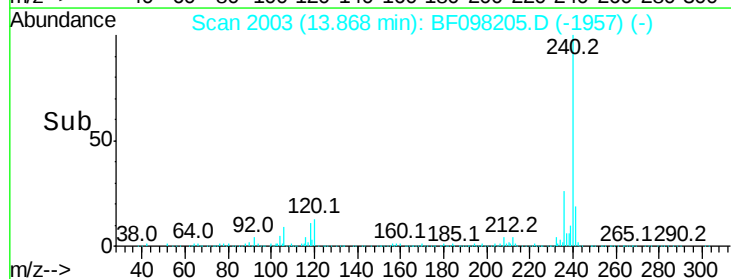
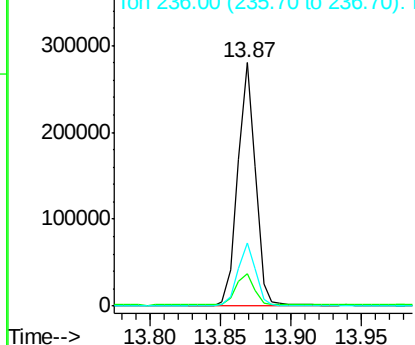


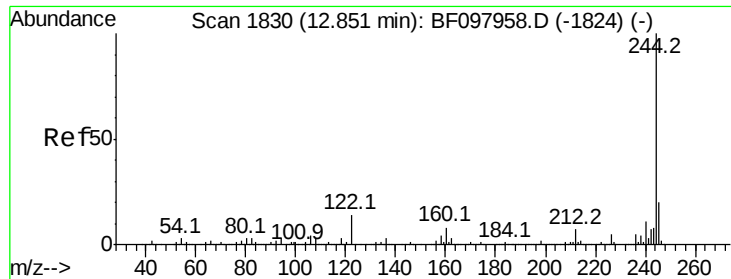
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.87 min Scan# 2003  
 Delta R.T. -0.03 min  
 Lab File: BF098205.D  
 Acq: 31 Aug 2017 20:12

Tgt Ion:240 Resp: 243295  
 Ion Ratio Lower Upper  
 240 100  
 120 13.3 5.8 8.8#  
 236 25.7 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: 80.455 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.03 min

Lab File: BF098205.D

Acq: 31 Aug 2017 20:12

Instrument :

BNA\_F

ClientSampled :

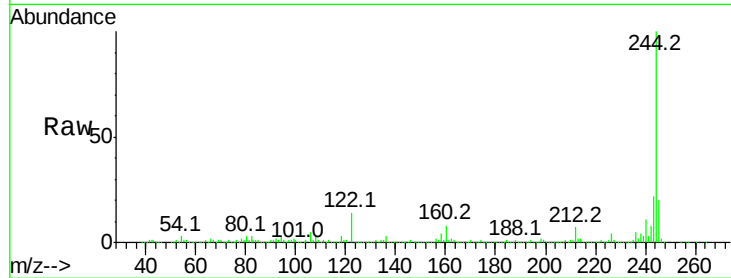
Tot Ion:244 Resp: 938661

Ion Ratio Lower Upper

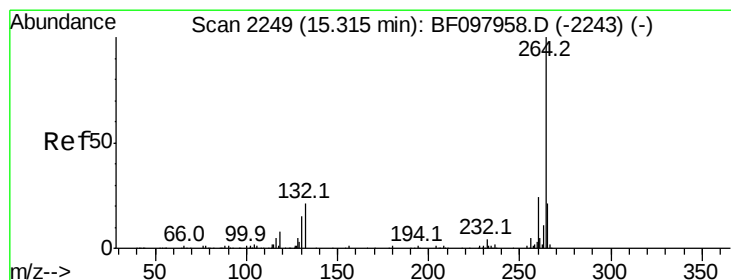
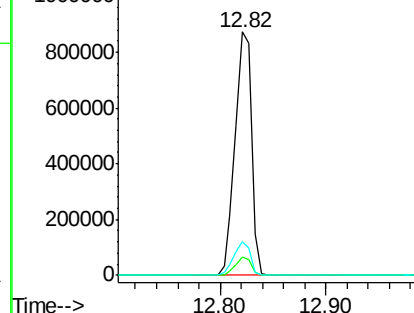
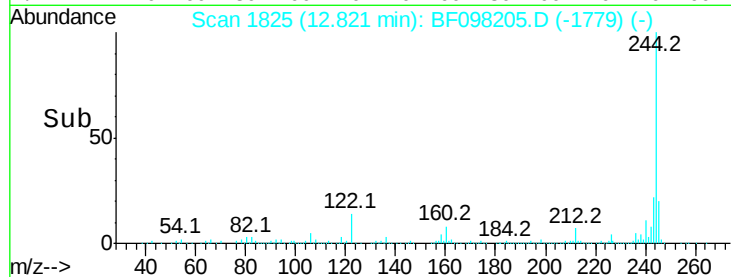
244 100

212 7.4 6.0 9.0

122 13.8 10.3 15.5



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: 15.29 min Scan# 2244

Delta R.T. -0.02 min

Lab File: BF098205.D

Acq: 31 Aug 2017 20:12

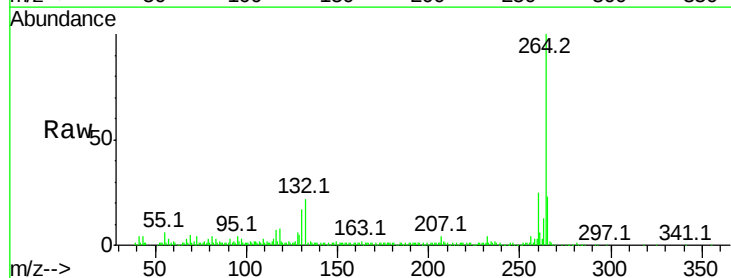
Tgt Ion:264 Resp: 221670

Ion Ratio Lower Upper

264 100

260 25.2 19.5 29.3

265 22.6 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

