

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101017\  
 Data File : BF099294.D  
 Acq On : 10 Oct 2017 11:58  
 Operator : SJ/JU  
 Sample : I5651-13  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 10 16:05:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 05 17:20:48 2017  
 Response via : Initial Calibration

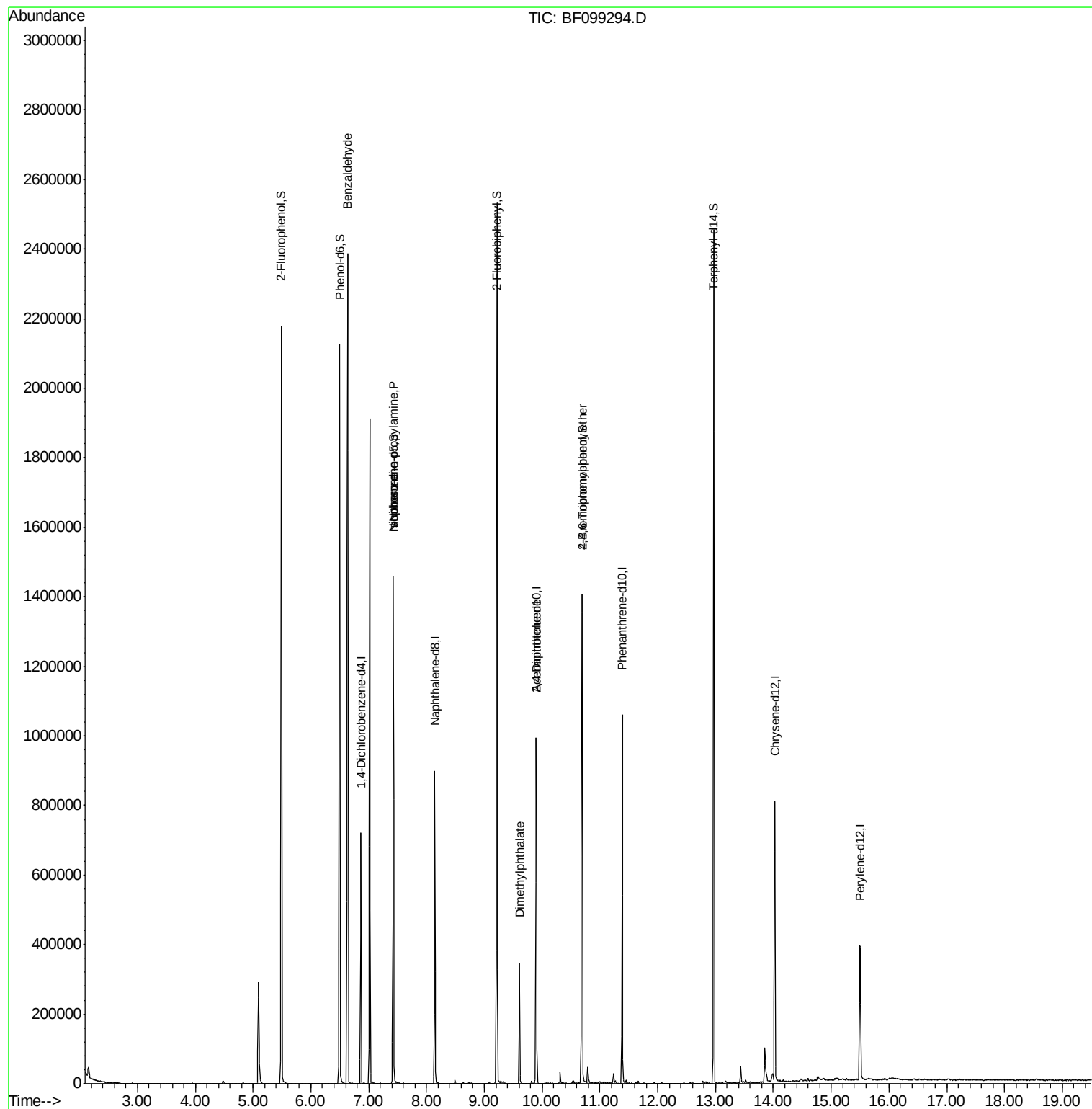
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 101288   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 411734   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 190357   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.39 | 188  | 348369   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.03 | 240  | 260107   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.50 | 264  | 183337   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 700598   | 110.11 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 836687   | 106.60 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 491918   | 76.62  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 179744   | 115.40 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 868164   | 76.14  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.97 | 244  | 817776   | 71.50  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.63  | 77   | 14053    | 3.086  | ng    | 85       |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 61528    | 12.278 | ng    | # 73     |
| 25) Isophorone                 | 7.43  | 82   | 491914   | 37.059 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.61  | 163  | 140919   | 9.808  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 23745    | 5.849  | ng    | # 22     |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 12278    | 3.601  | ng    | # 1      |

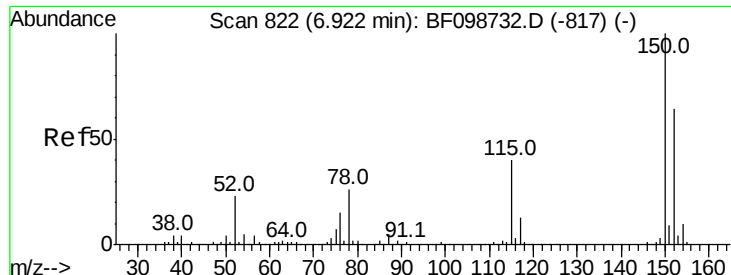
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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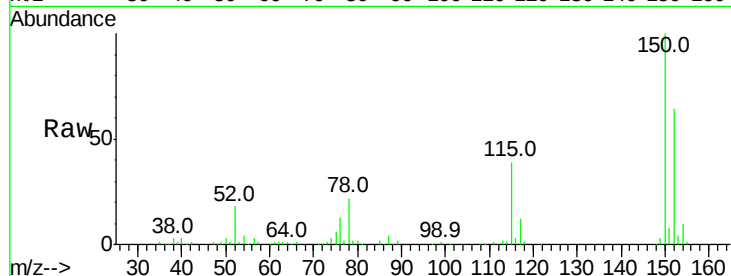


#1

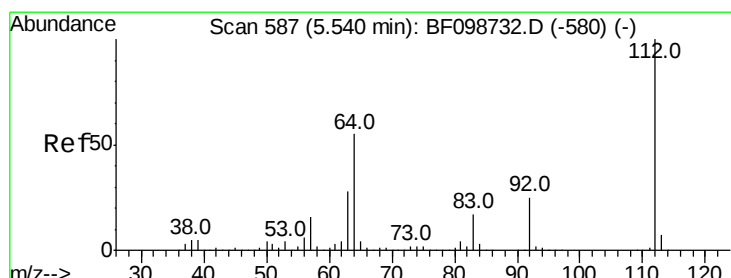
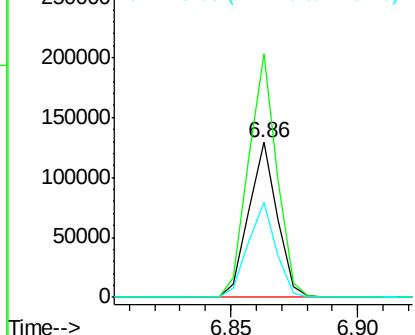
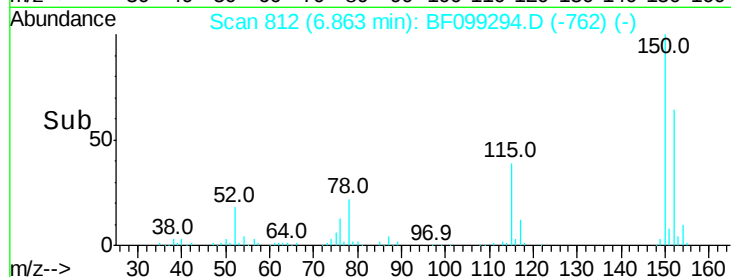
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF099294.D  
Acq: 10 Oct 2017 11:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 101288  
Ion Ratio Lower Upper  
152 100  
150 156.9 124.6 186.8  
115 61.6 50.1 75.1



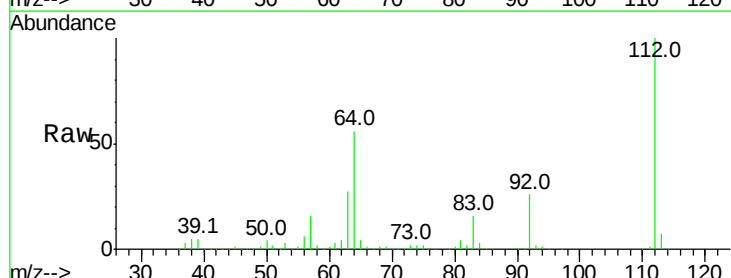
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



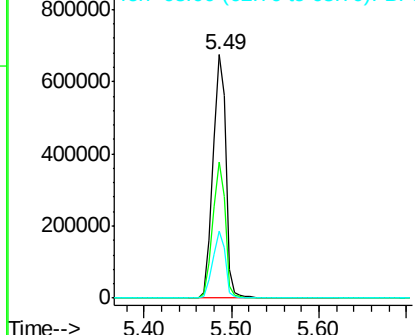
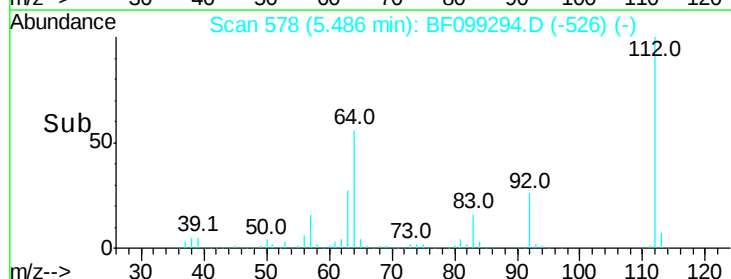
#5

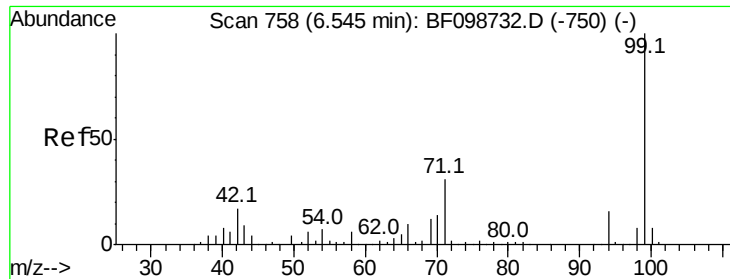
2-Fluorophenol  
Concen: 110.110 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: BF099294.D  
Acq: 10 Oct 2017 11:58

Tgt Ion:112 Resp: 700598  
Ion Ratio Lower Upper  
112 100  
64 55.7 47.9 71.9  
63 27.3 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 106.596 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF099294.D

Acq: 10 Oct 2017 11:58

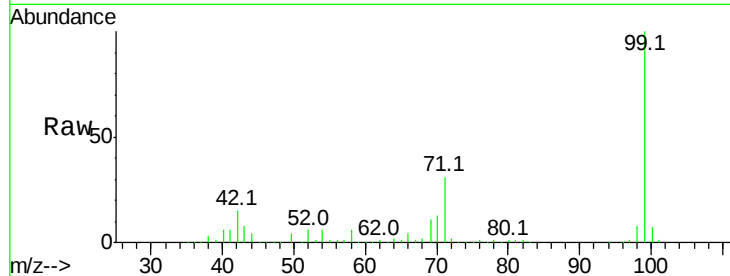
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 836687

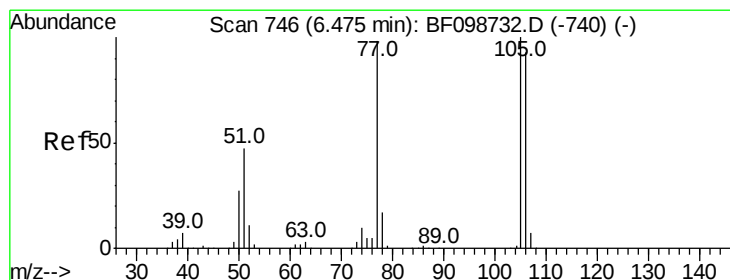
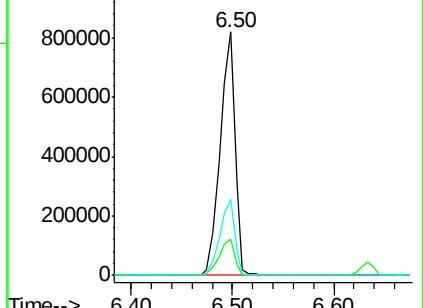
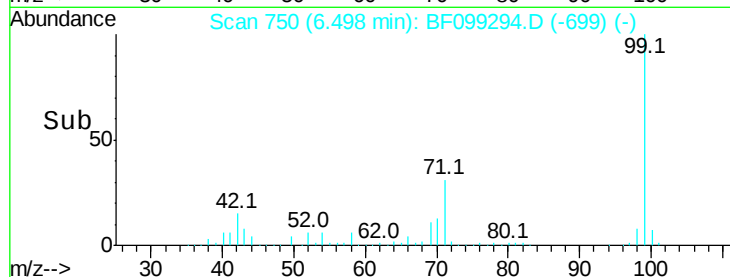
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.1  | 14.5  | 21.7  |
| 71  | 31.1  | 25.4  | 38.0  |



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.086 ng

RT: 6.63 min Scan# 773

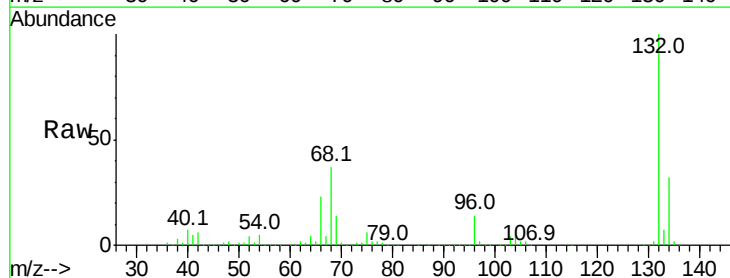
Delta R.T. 0.21 min

Lab File: BF099294.D

Acq: 10 Oct 2017 11:58

Tgt Ion: 77 Resp: 14053

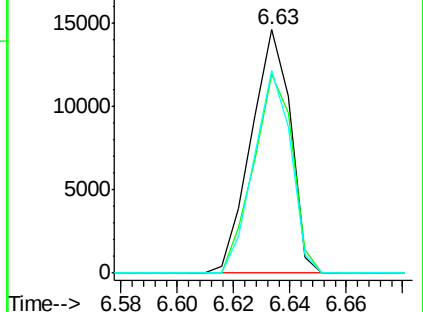
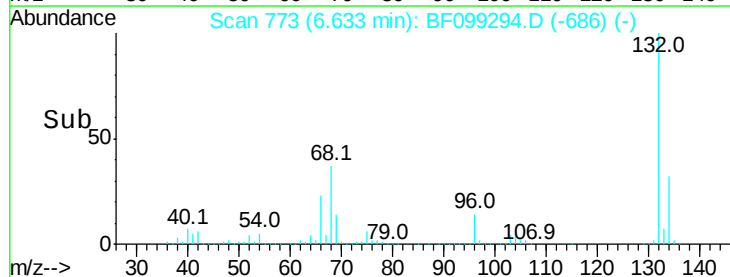
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 105 | 81.7  | 81.1  | 121.1 |
| 106 | 83.5  | 74.5  | 114.5 |

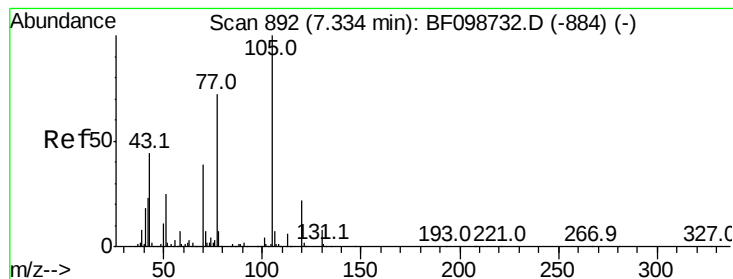


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 12.278 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.14 min

Lab File: BF099294.D

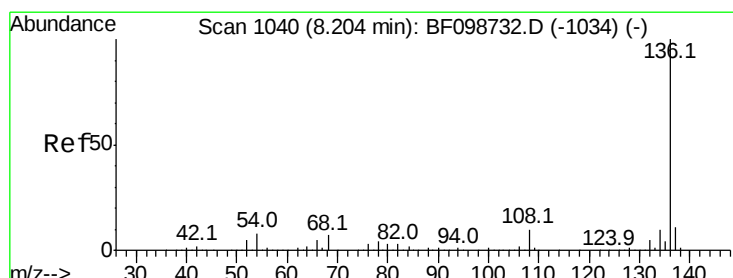
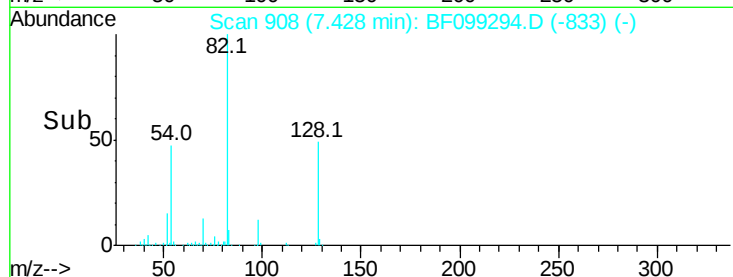
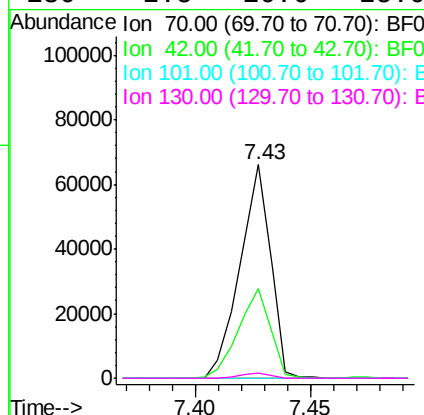
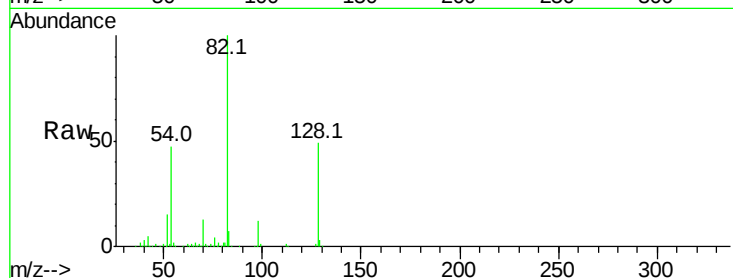
Acq: 10 Oct 2017 11:58

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 61528 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 41.9  | 47.5  | 71.3# |
| 101      | 0.0   | 7.4   | 11.2# |
| 130      | 2.5   | 16.6  | 25.0# |



#21

Naphthalene-d8

Concen: 20.000 ng

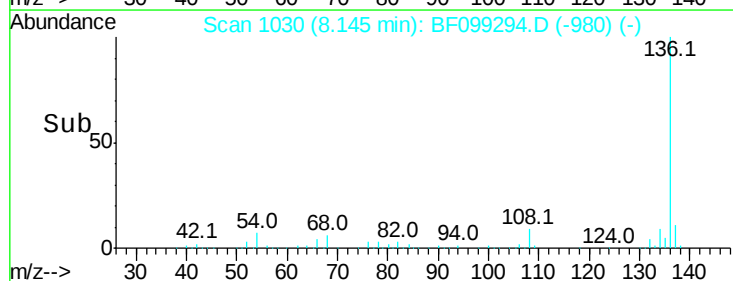
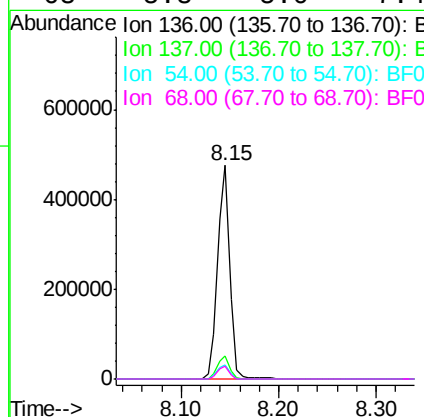
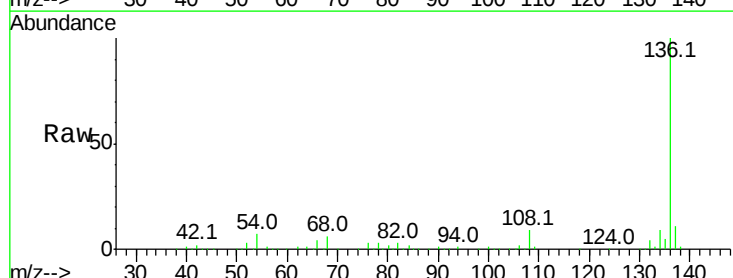
RT: 8.15 min Scan# 1030

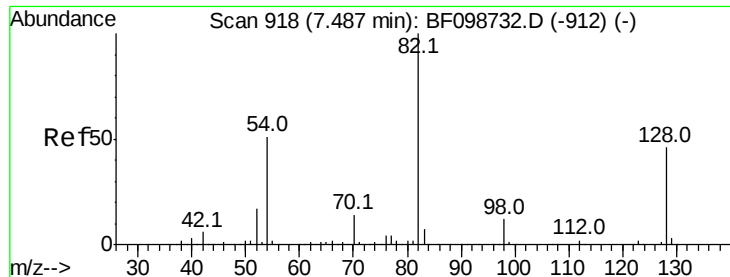
Delta R.T. -0.01 min

Lab File: BF099294.D

Acq: 10 Oct 2017 11:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 411734 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.9   | 13.3   |
| 54       | 6.7   | 6.6   | 9.8    |
| 68       | 5.8   | 5.0   | 7.4    |





#23

Nitrobenzene-d5

Concen: 76.619 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF099294.D

Acq: 10 Oct 2017 11:58

Instrument :

BNA\_F

ClientSampleId :

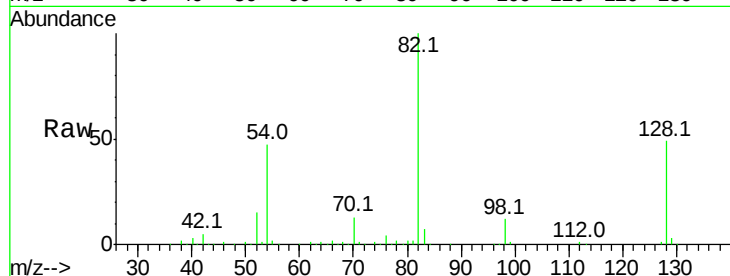
Tot Ion: 82 Resp: 491918

Ion Ratio Lower Upper

82 100

128 49.5 36.1 54.1

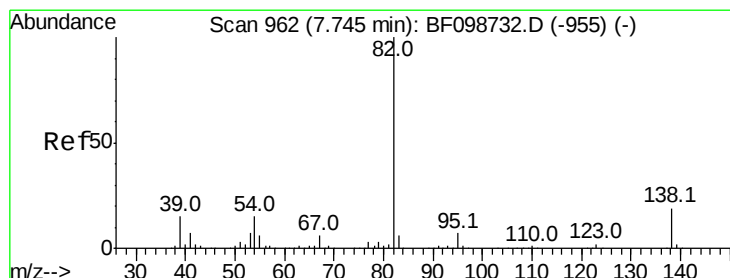
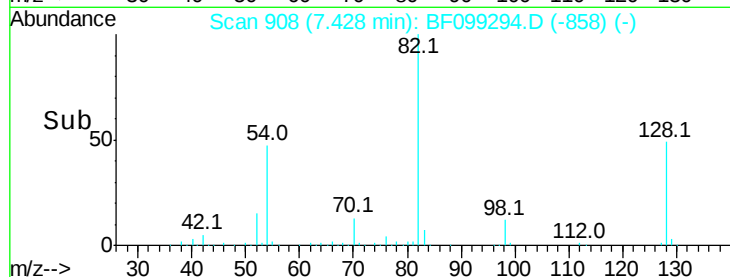
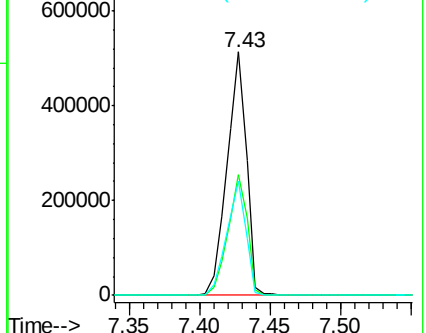
54 47.0 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 37.059 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.26 min

Lab File: BF099294.D

Acq: 10 Oct 2017 11:58

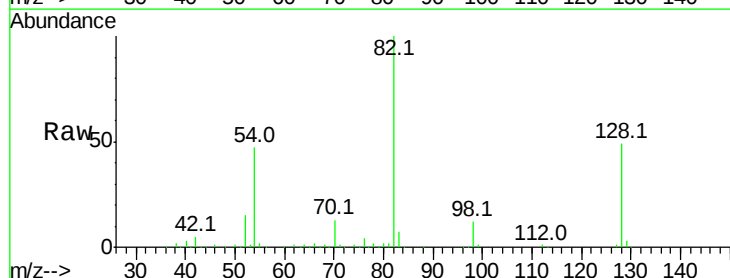
Tgt Ion: 82 Resp: 491914

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

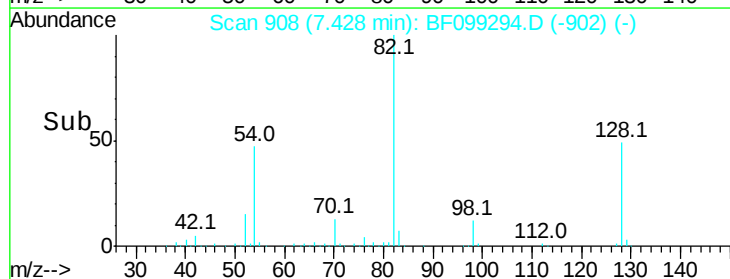
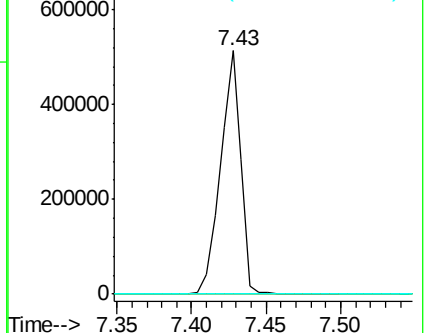
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

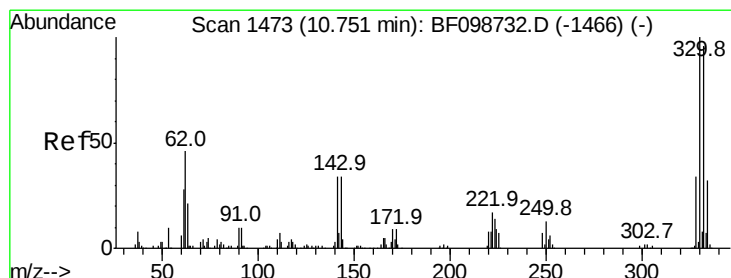
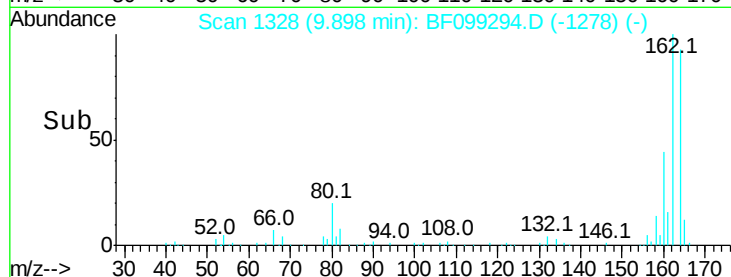
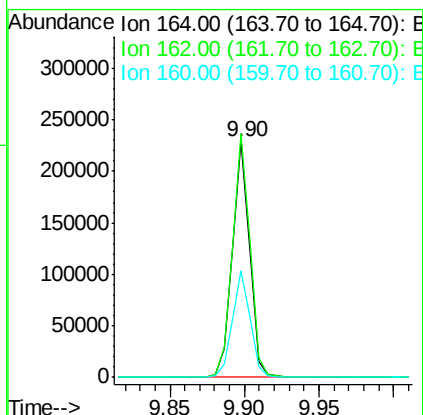
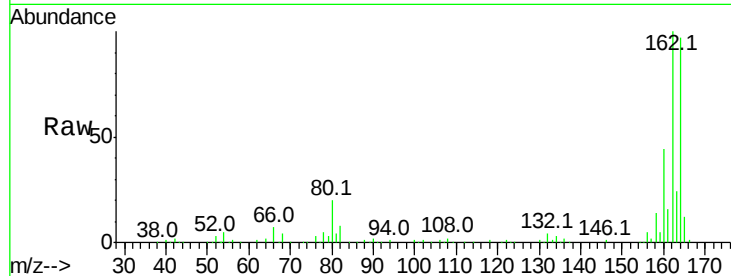




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.01 min  
 Lab File: BF099294.D  
 Acq: 10 Oct 2017 11:58

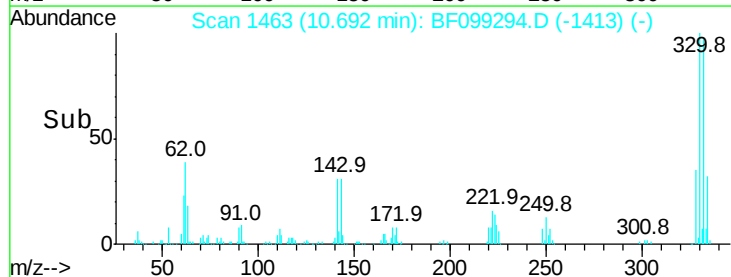
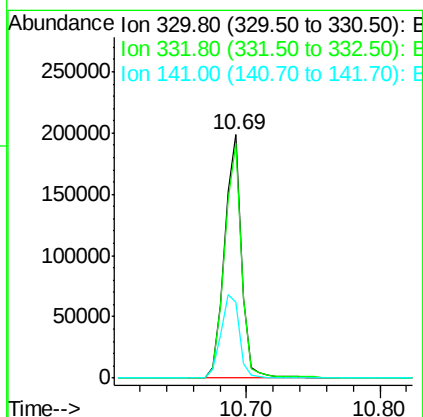
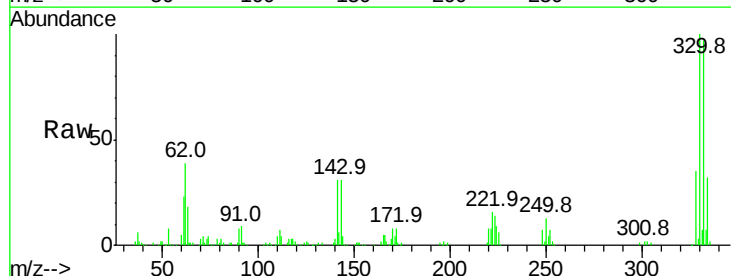
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.3 | 86.1  | 129.1 |
| 160     | 45.5  | 38.3  | 57.5  |



#41  
 2,4,6-Tribromophenol  
 Concen: 115.395 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF099294.D  
 Acq: 10 Oct 2017 11:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.0  | 115.6 |
| 141     | 37.5  | 29.9  | 44.9  |

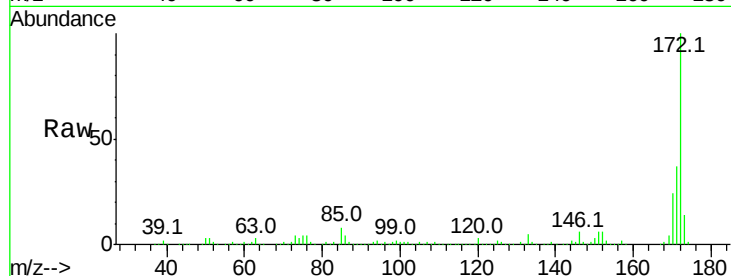




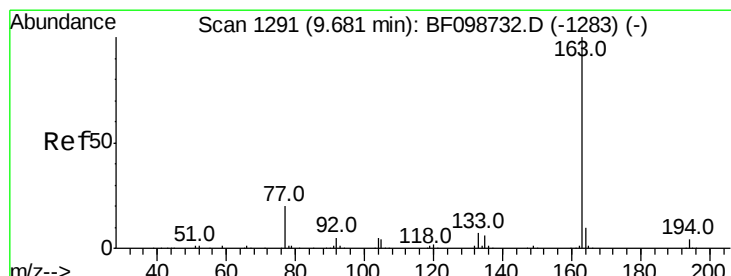
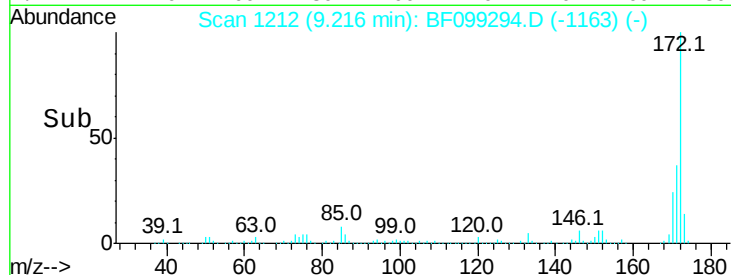
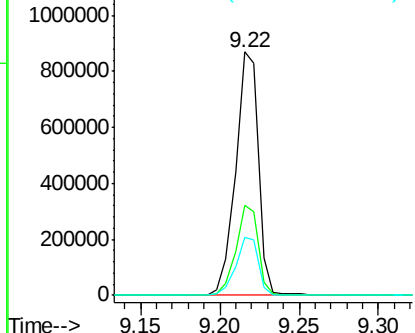
#44  
2-Fluorobiphenyl  
Concen: 76.137 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF099294.D  
Acq: 10 Oct 2017 11:58

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 868164  
Ion Ratio Lower Upper  
172 100  
171 36.7 29.7 44.5  
170 23.8 19.6 29.4

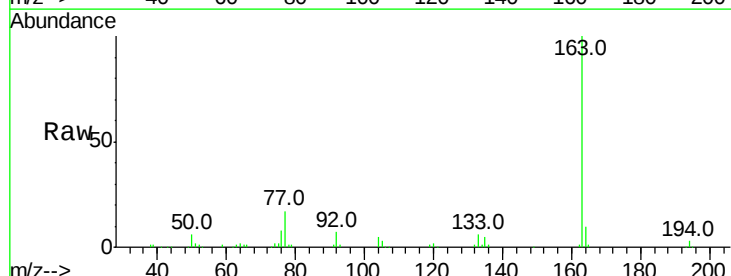


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

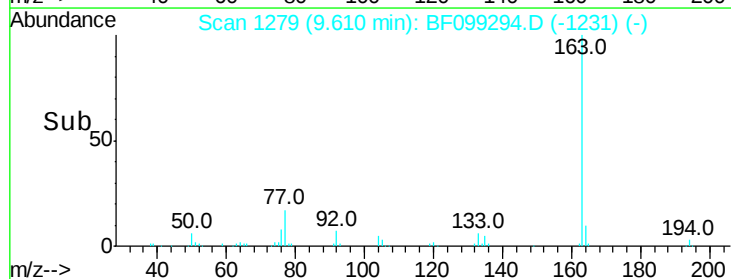
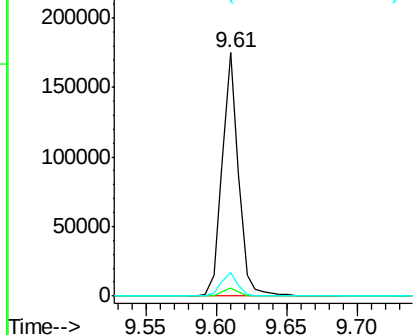


#49  
Dimethylphthalate  
Concen: 9.808 ng  
RT: 9.61 min Scan# 1279  
Delta R.T. -0.02 min  
Lab File: BF099294.D  
Acq: 10 Oct 2017 11:58

Tgt Ion:163 Resp: 140919  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.7 4.1  
164 9.6 8.2 12.2



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

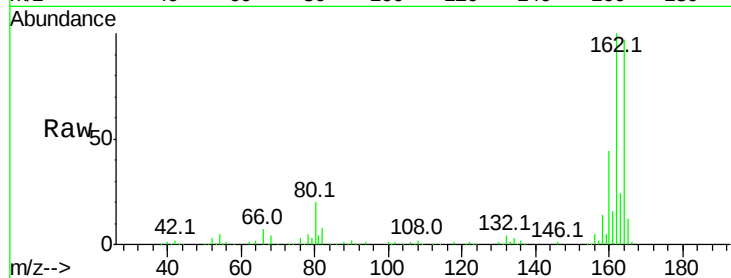




#56  
 2,4-Dinitrotoluene  
 Concen: 5.849 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.20 min  
 Lab File: BF099294.D  
 Acq: 10 Oct 2017 11:58

Instrument :  
 BNA\_F  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 23745      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 36.4 54.6# |
| 89          | 1.2   | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |

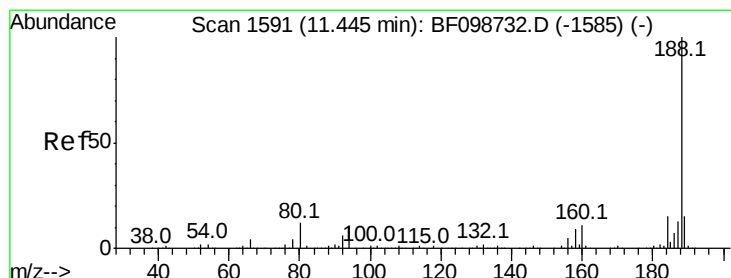
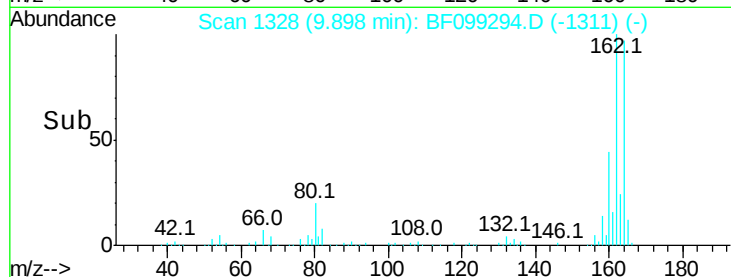
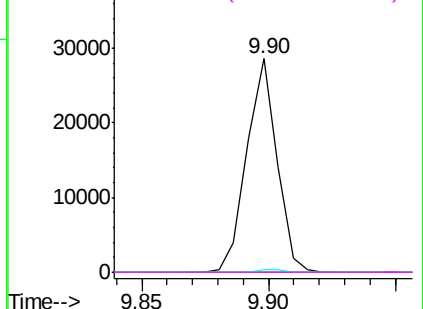


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

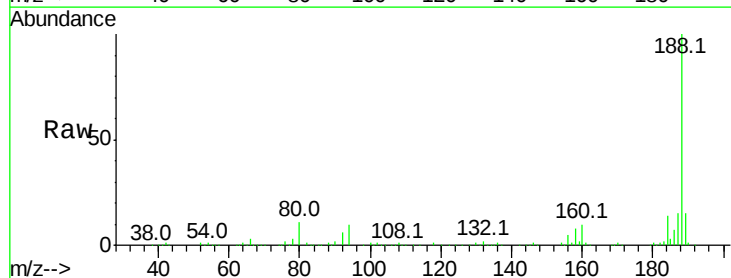
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF099294.D  
 Acq: 10 Oct 2017 11:58

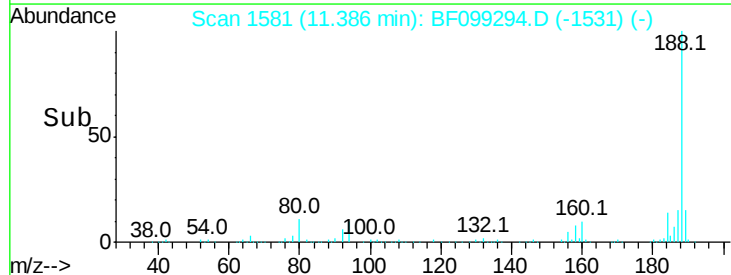
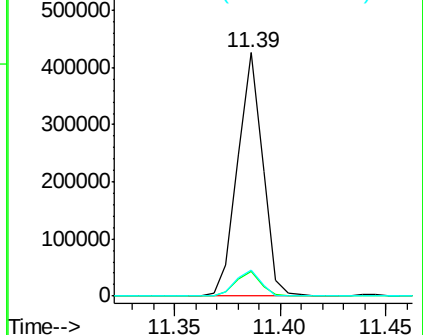
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 348369   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 10.1  | 8.5 12.7 |
| 80          | 10.9  | 9.2 13.8 |

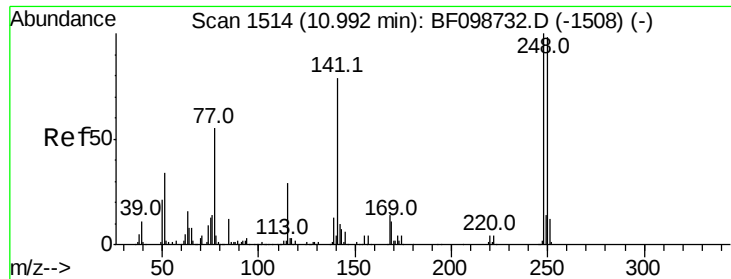


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

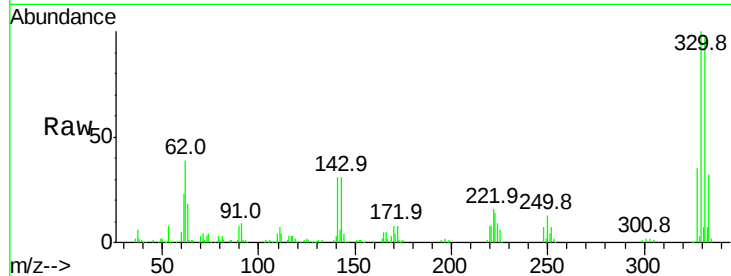




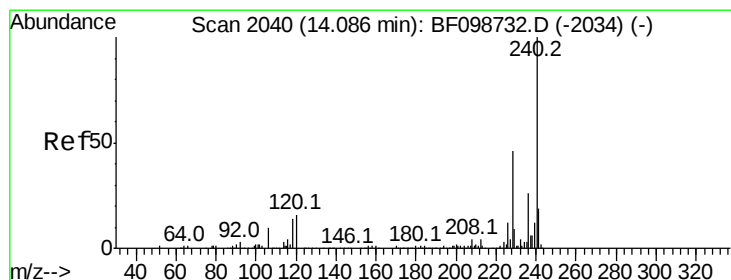
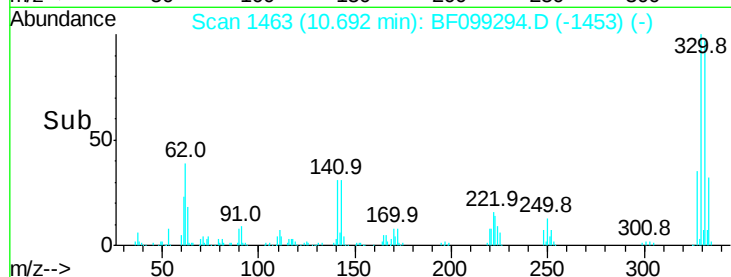
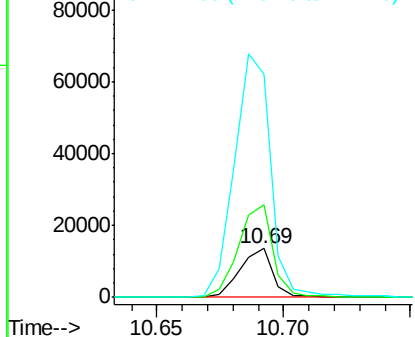
#66  
4-Bromophenyl-phenylether  
Concen: 3.601 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. -0.24 min  
Lab File: BF099294.D  
Acq: 10 Oct 2017 11:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 12278  
Ion Ratio Lower Upper  
248 100  
250 190.8 76.9 115.3#  
141 457.6 74.4 111.6#

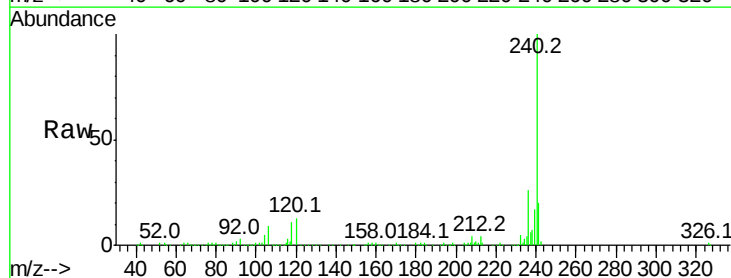


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

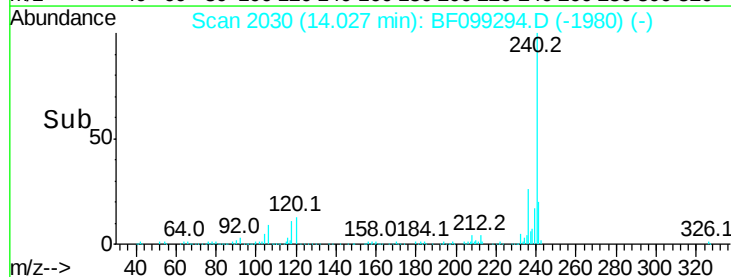
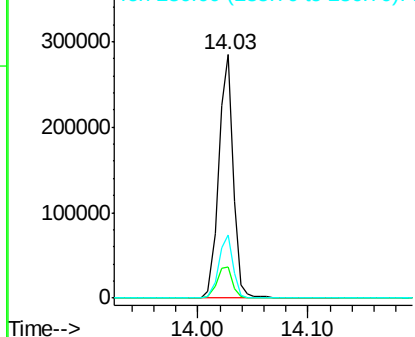


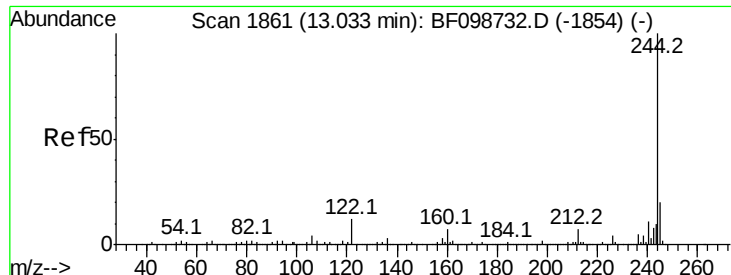
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.01 min  
Lab File: BF099294.D  
Acq: 10 Oct 2017 11:58

Tgt Ion:240 Resp: 260107  
Ion Ratio Lower Upper  
240 100  
120 13.0 9.5 14.3  
236 25.7 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: 71.501 ng

RT: 12.97 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BF099294.D

Acq: 10 Oct 2017 11:58

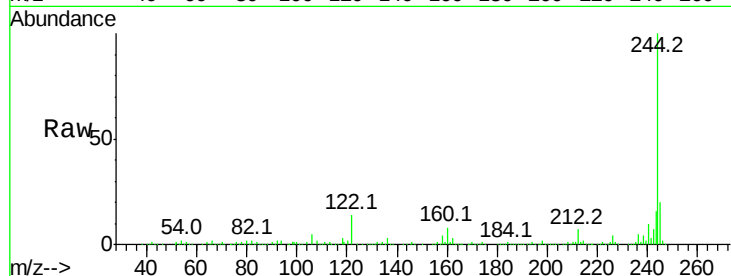
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:244 Resp: 817776

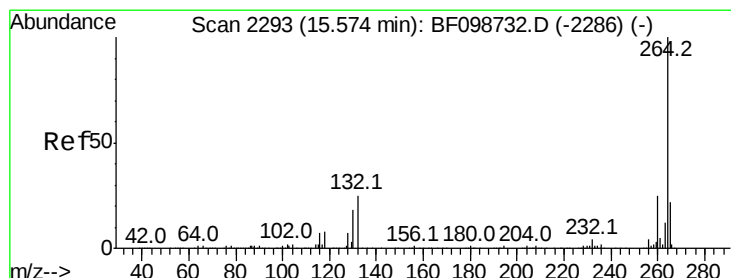
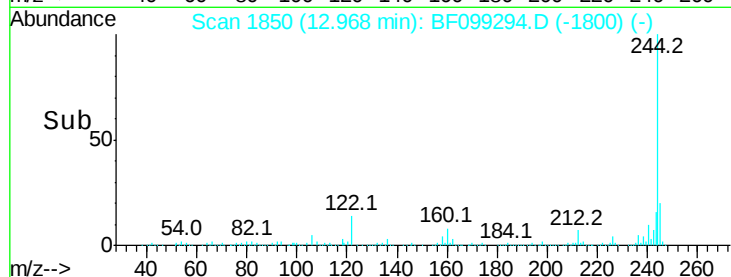
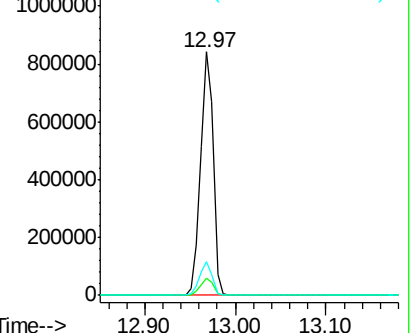
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.2   | 5.4   | 8.0   |
| 122 | 13.8  | 11.0  | 16.4  |



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: 15.50 min Scan# 2281

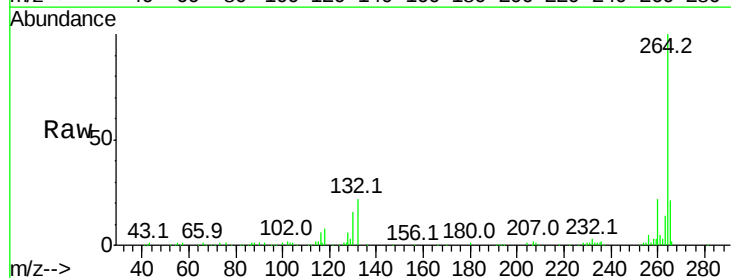
Delta R.T. -0.00 min

Lab File: BF099294.D

Acq: 10 Oct 2017 11:58

Tgt Ion:264 Resp: 183337

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.4  | 19.2  | 28.8  |
| 265 | 20.9  | 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

