

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011119\  
 Data File : BF112042.D  
 Acq On : 12 Jan 2019 3:57  
 Operator : JU/SJ  
 Sample : K1114-04  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 12 05:31:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 11 21:37:26 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 106581   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 371028   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.91  | 164  | 169169   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.40 | 188  | 305388   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 255158   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.52 | 264  | 174125   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.51  | 112  | 601553   | 96.56 | ng    | 0.00     |
| 7) Phenol-d6                | 6.52  | 99   | 763023   | 95.03 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 462666   | 66.65 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.70 | 330  | 201540   | 91.59 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.23  | 172  | 899262   | 77.51 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.99 | 244  | 964867   | 71.78 | ng    | 0.00     |

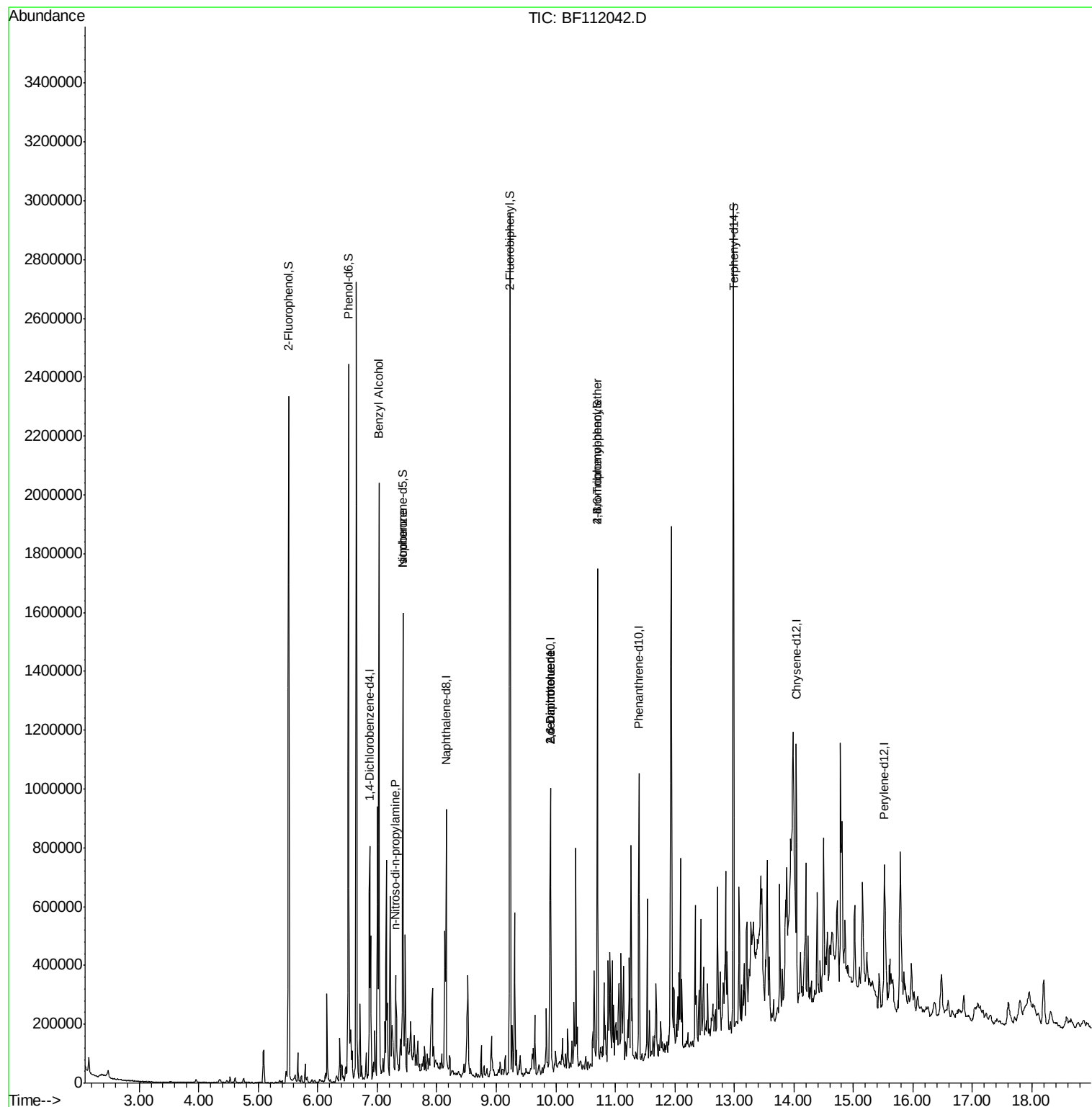
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.43  | 77   | 808      | Below Cal |       | # 1    |
| 15) Benzyl Alcohol             | 7.03  | 79   | 13400    | 2.109     | ng    | # 39   |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 18570    | 3.559     | ng    | # 48   |
| 25) Isophorone                 | 7.43  | 82   | 460135   | 40.931    | ng    | # 65   |
| 51) 2,6-Dinitrotoluene         | 9.91  | 165  | 21116    | 7.431     | ng    | # 26   |
| 57) 2,4-Dinitrotoluene         | 9.91  | 165  | 21116    | 5.750     | ng    | # 27   |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 11905    | 3.010     | ng    | # 1    |

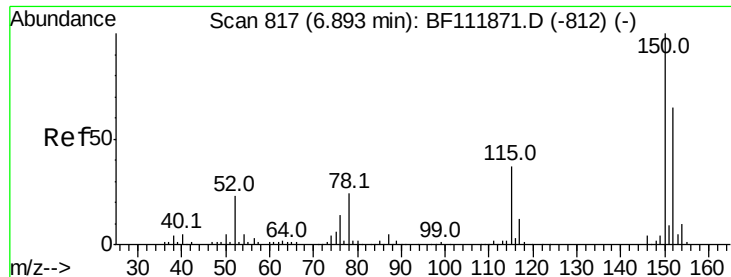
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 33 Sample Multiplier: 1

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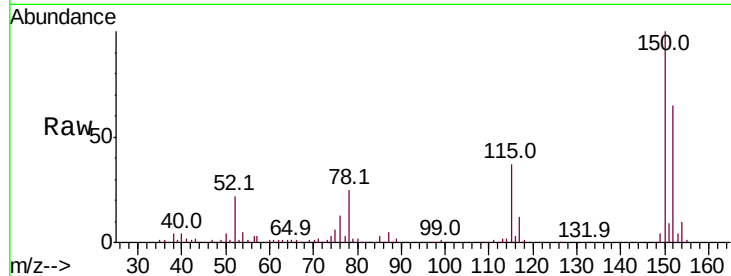


#1

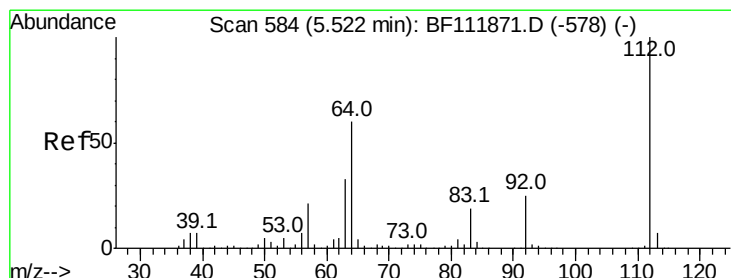
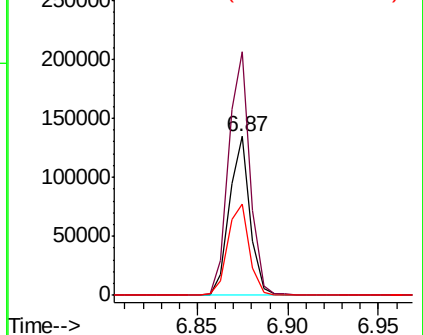
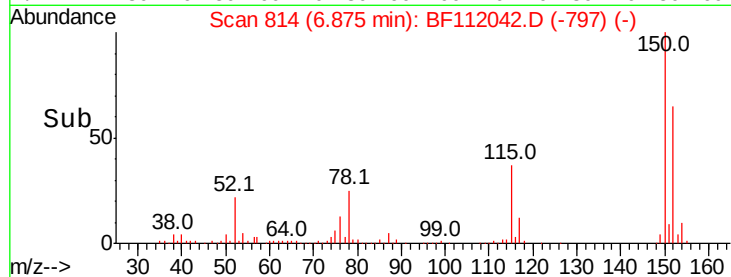
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 814  
Delta R.T. -0.00 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.4 | 122.7 | 184.1 |
| 115     | 57.2  | 45.2  | 67.8  |



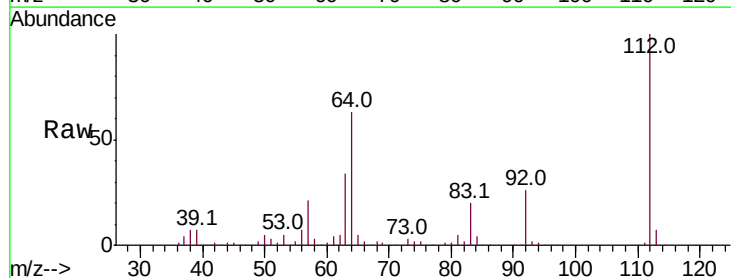
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



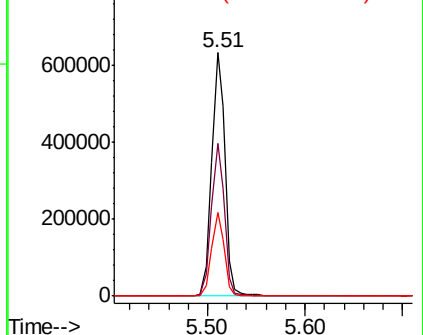
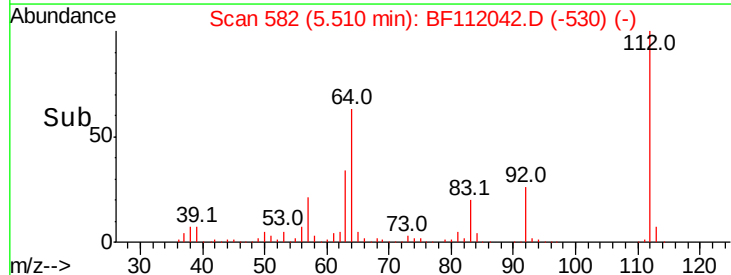
#5

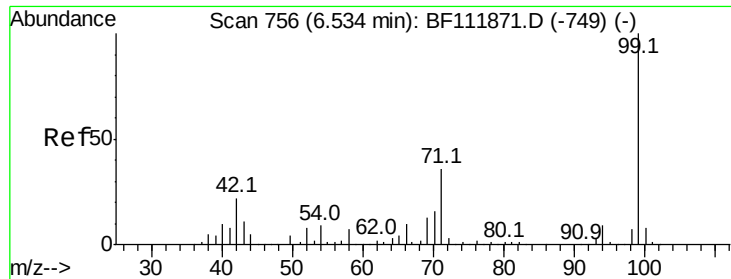
2-Fluorophenol  
Concen: 96.560 ng  
RT: 5.51 min Scan# 582  
Delta R.T. 0.01 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.5  | 48.3  | 72.5  |
| 63      | 34.2  | 26.1  | 39.1  |



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: 95.027 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.01 min

Lab File: BF112042.D

Acq: 12 Jan 2019 3:57

Instrument :

BNA\_F

ClientSampleId :

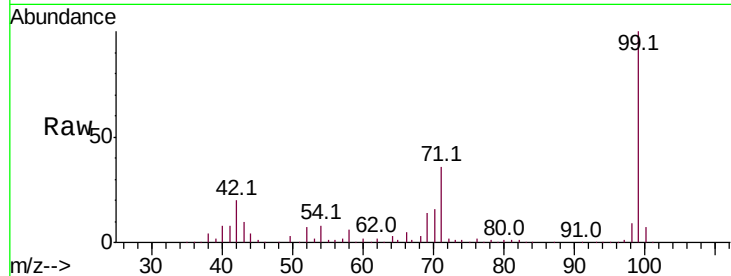
Tot Ion: 99 Resp: 763023

Ion Ratio Lower Upper

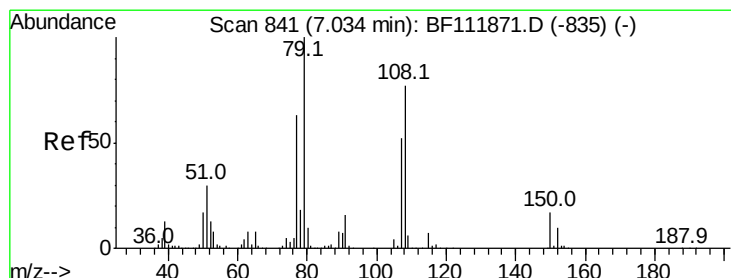
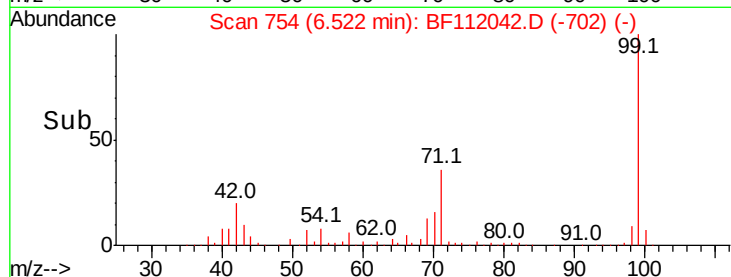
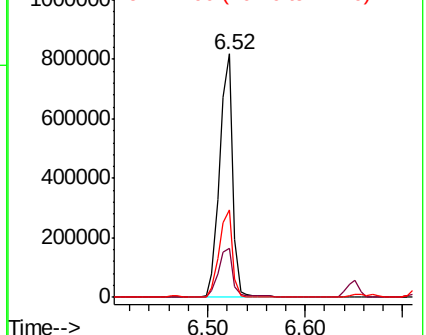
99 100

42 20.4 17.9 26.9

71 36.2 28.7 43.1



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



#15

Benzyl Alcohol

Concen: 2.109 ng

RT: 7.03 min Scan# 841

Delta R.T. 0.02 min

Lab File: BF112042.D

Acq: 12 Jan 2019 3:57

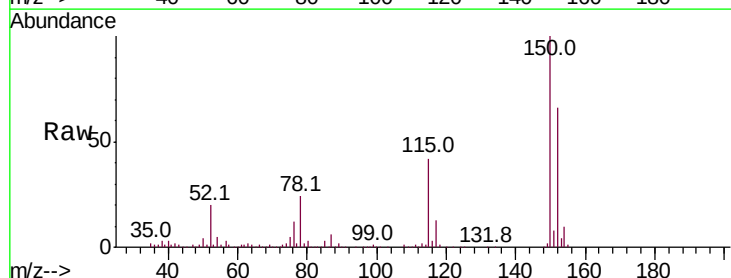
Tgt Ion: 79 Resp: 13400

Ion Ratio Lower Upper

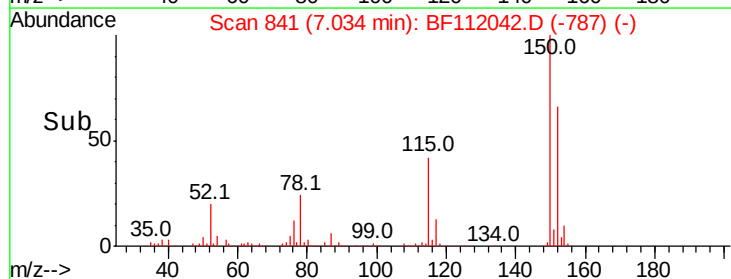
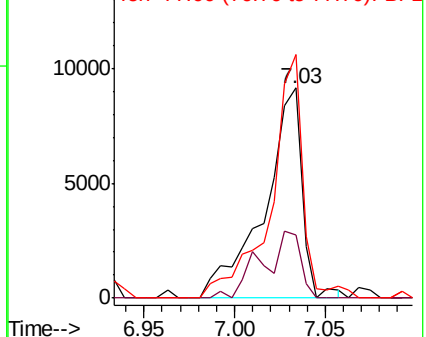
79 100

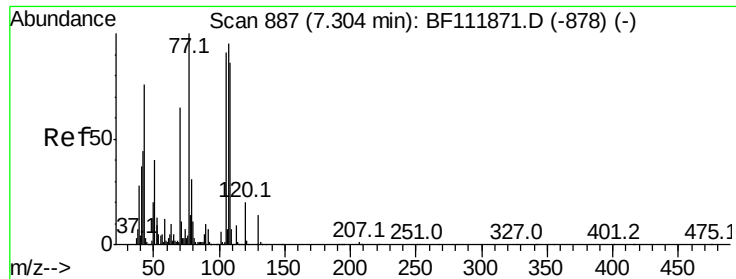
108 29.9 61.4 92.0#

77 116.0 50.4 75.6#



Abundance Ion 79.00 (78.70 to 79.70): BF1  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 3.559 ng

RT: 7.31 min Scan# 888

Delta R.T. 0.02 min

Lab File: BF112042.D

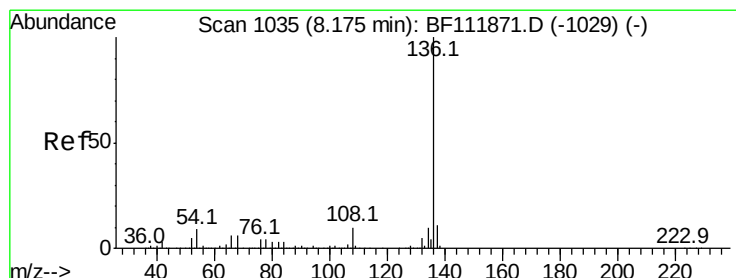
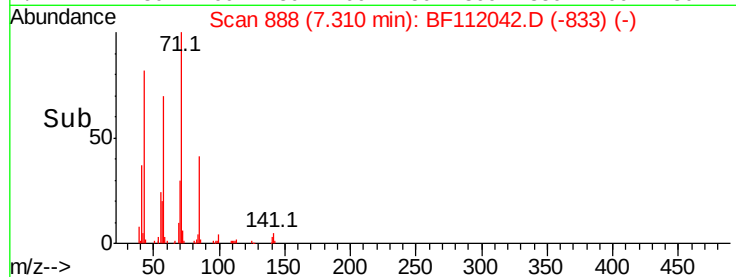
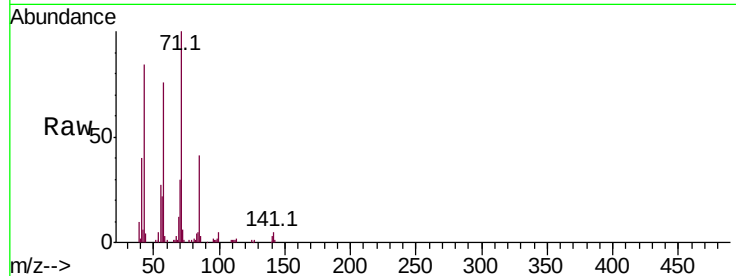
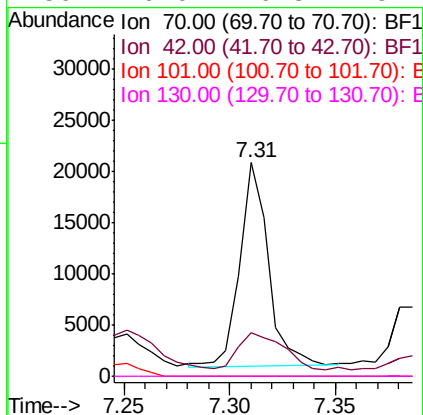
Acq: 12 Jan 2019 3:57

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 18570 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 20.3  | 53.6  | 80.4# |
| 101      | 0.0   | 7.3   | 10.9# |
| 130      | 0.0   | 16.8  | 25.2# |



#21

Naphthalene-d8

Concen: 20.000 ng

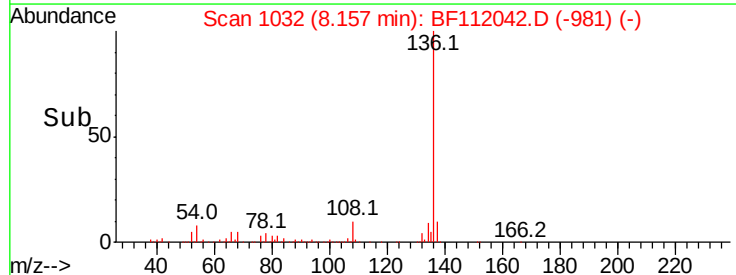
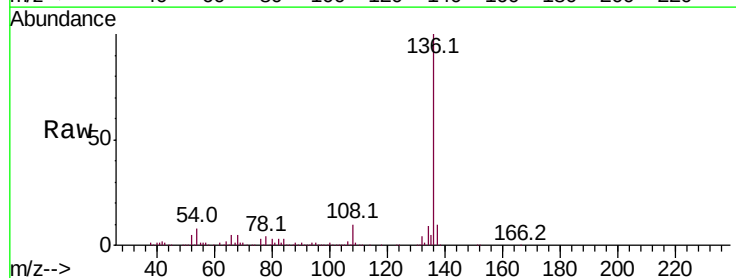
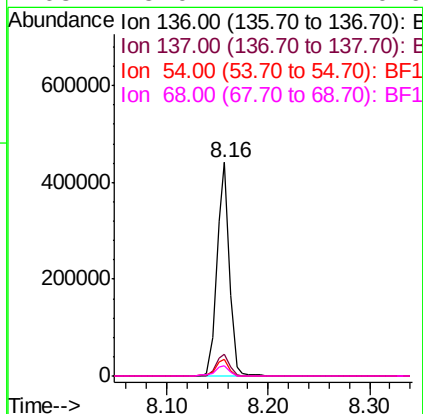
RT: 8.16 min Scan# 1032

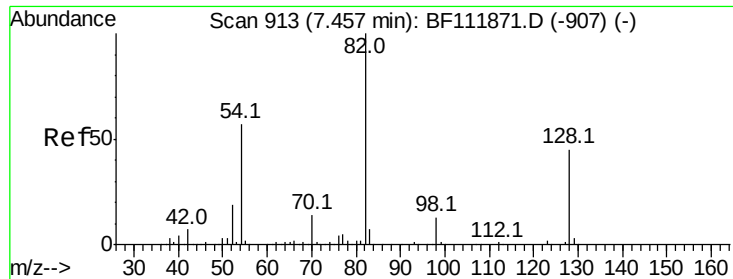
Delta R.T. -0.00 min

Lab File: BF112042.D

Acq: 12 Jan 2019 3:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 371028 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 9.1   | 13.7   |
| 54       | 7.9   | 7.2   | 10.8   |
| 68       | 5.0   | 4.4   | 6.6    |

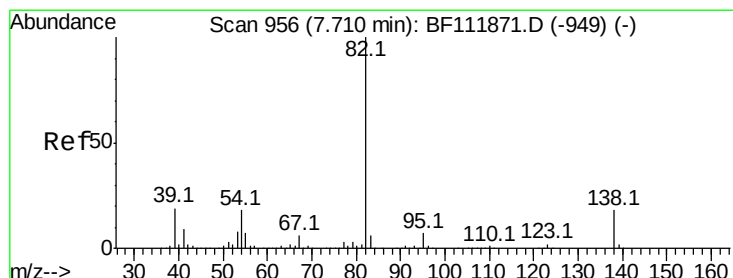
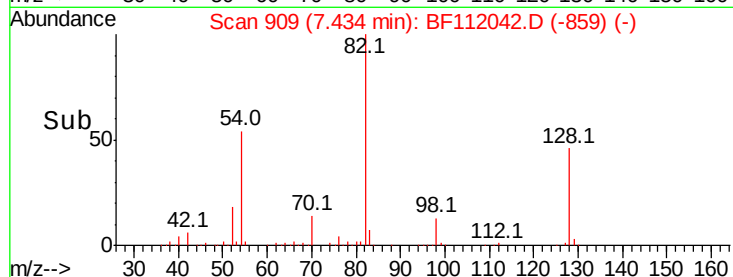
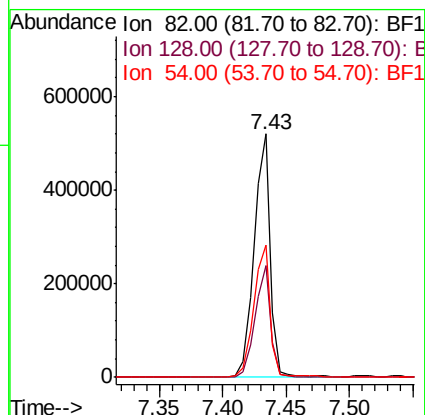
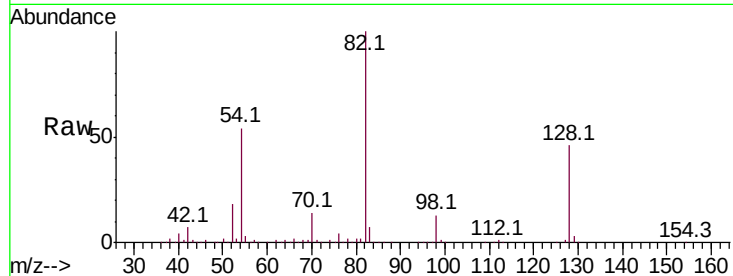




#23  
Nitrobenzene-d5  
Concen: 66.645 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

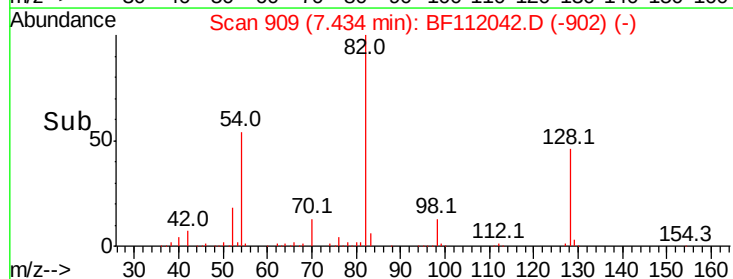
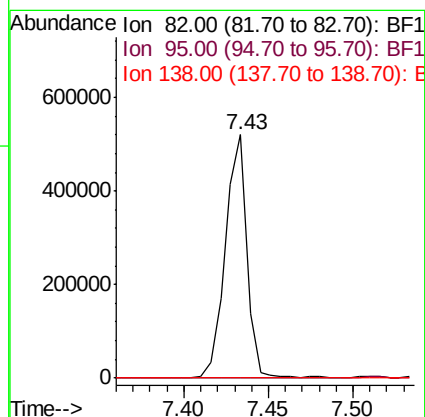
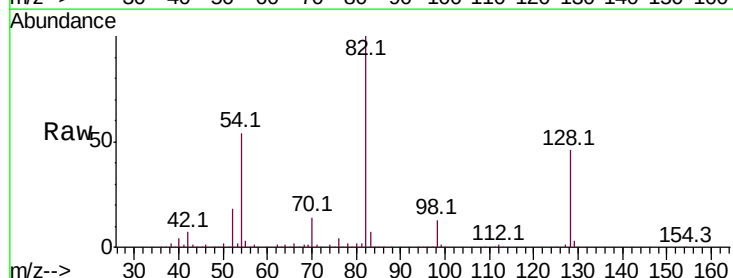
Instrument :  
BNA\_F  
ClientSampled :

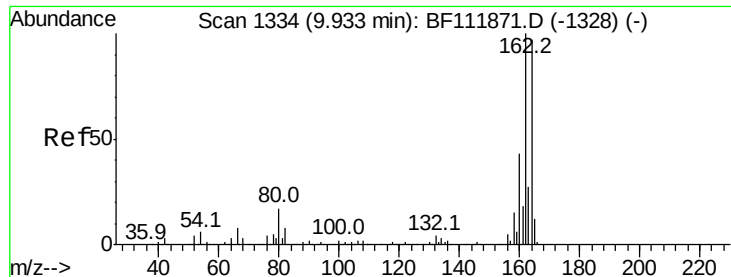
Tot Ion: 82 Resp: 462666  
Ion Ratio Lower Upper  
82 100  
128 46.0 35.7 53.5  
54 54.2 45.8 68.8



#25  
Isophorone  
Concen: 40.931 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.26 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

Tgt Ion: 82 Resp: 460135  
Ion Ratio Lower Upper  
82 100  
95 0.2 5.8 8.6#  
138 0.0 14.4 21.6#

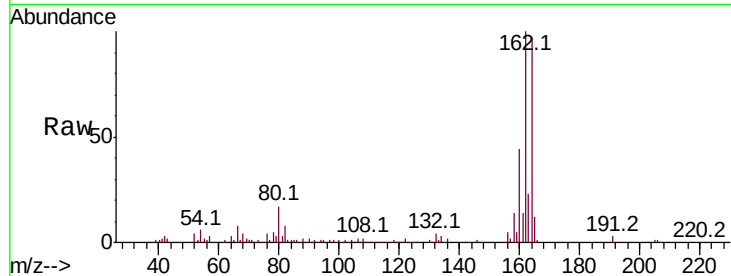




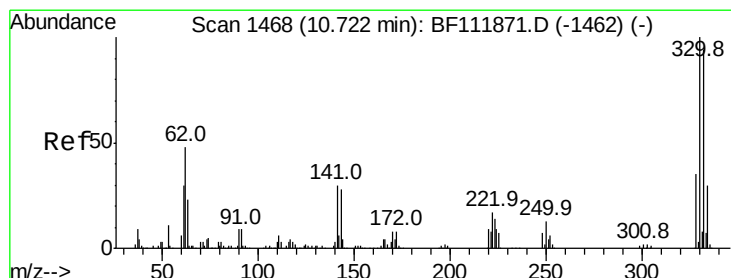
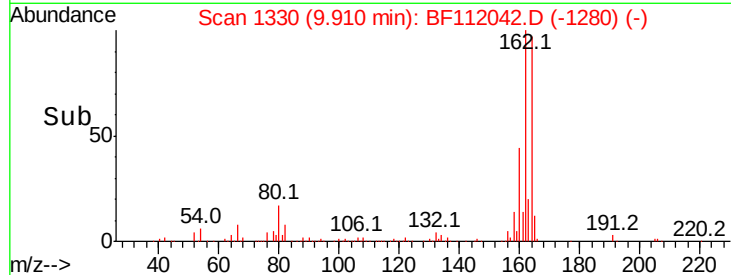
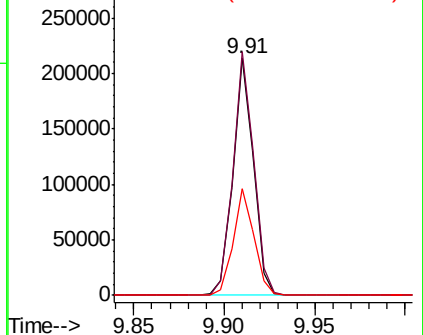
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 169169  
Ion Ratio Lower Upper  
164 100  
162 102.8 82.2 123.2  
160 44.8 35.5 53.3

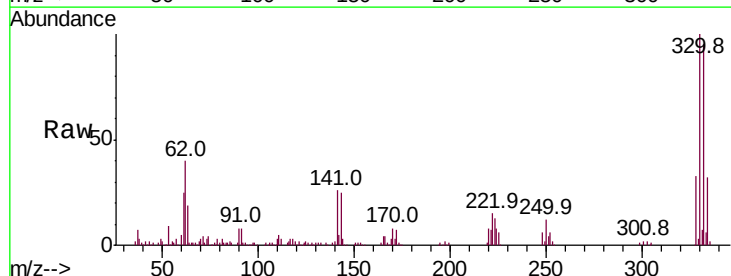


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

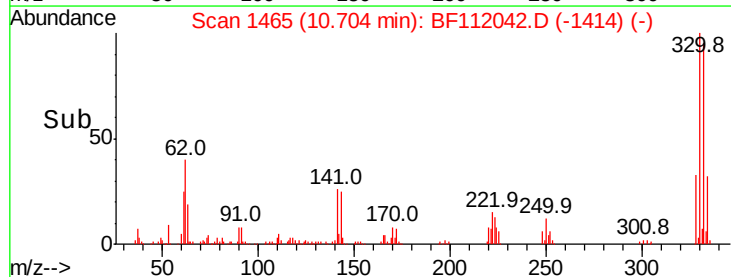
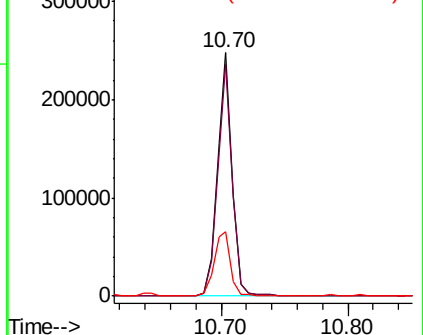


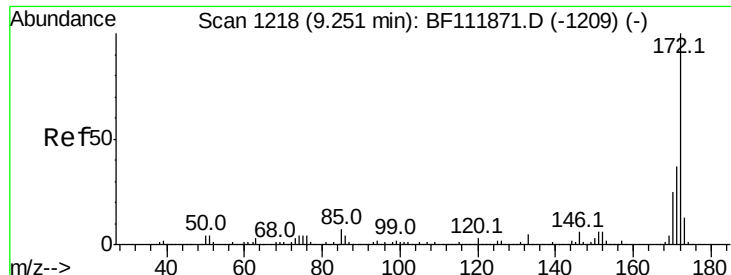
#42  
2,4,6-Tribromophenol  
Concen: 91.593 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. -0.00 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

Tgt Ion:330 Resp: 201540  
Ion Ratio Lower Upper  
330 100  
332 95.4 76.9 115.3  
141 29.9 23.7 35.5



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

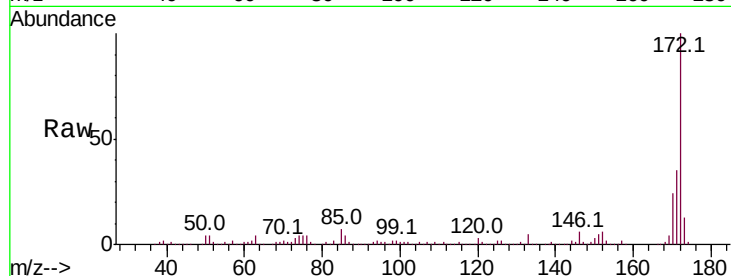




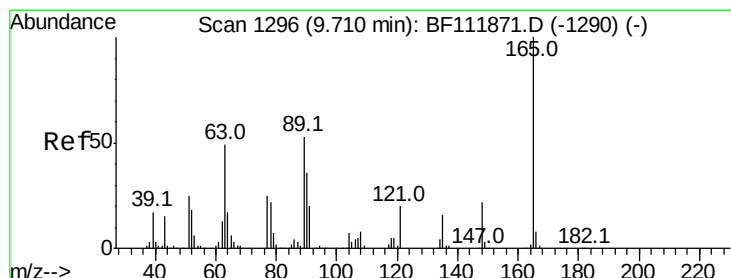
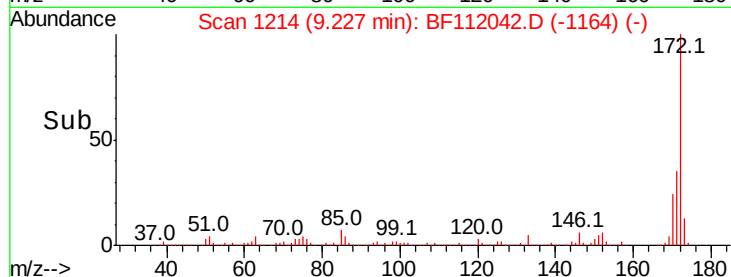
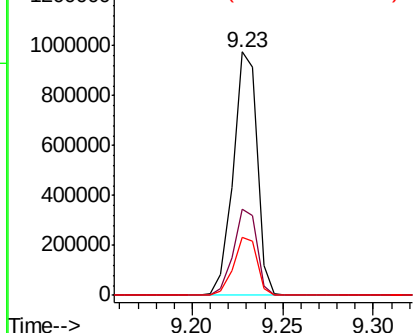
#45  
2-Fluorobiphenyl  
Concen: 77.514 ng  
RT: 9.23 min Scan# 1214  
Delta R.T. -0.01 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 29.6  | 44.4  |
| 170     | 23.8  | 19.8  | 29.8  |

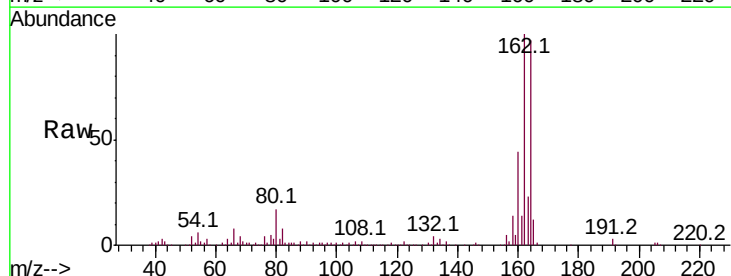


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

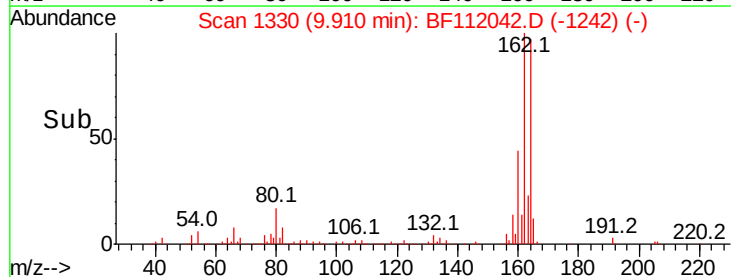
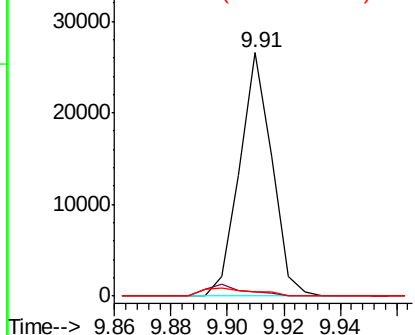


#51  
2,6-Dinitrotoluene  
Concen: 7.431 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. 0.22 min  
Lab File: BF112042.D  
Acq: 12 Jan 2019 3:57

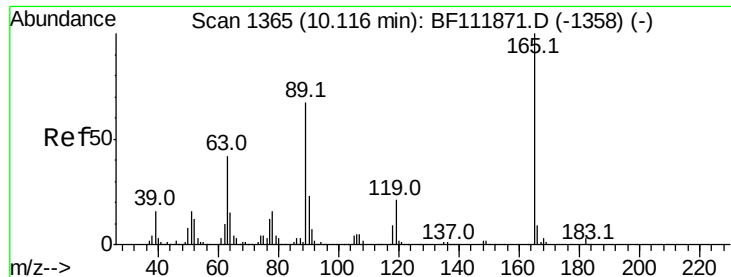
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 46.2  | 69.2# |
| 89      | 1.8   | 42.2  | 63.2# |



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







#57

2,4-Dinitrotoluene

Concen: 5.750 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.19 min

Lab File: BF112042.D

Acq: 12 Jan 2019 3:57

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 21116

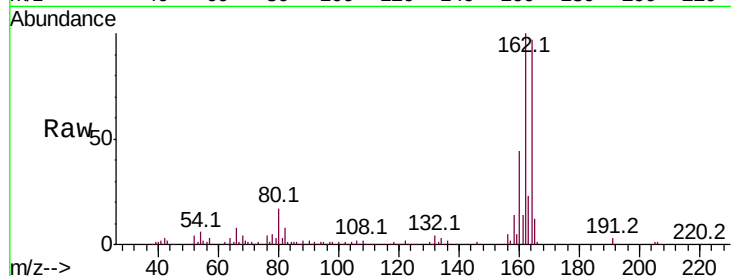
Ion Ratio Lower Upper

165 100

63 1.6 34.1 51.1#

89 1.8 53.5 80.3#

182 0.0 2.0 3.0#

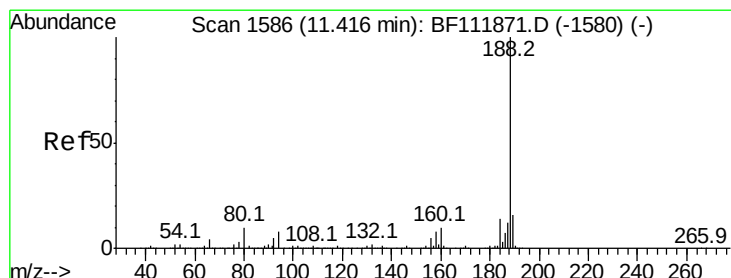
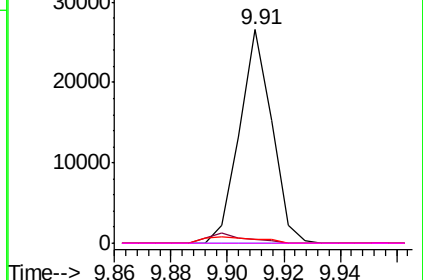
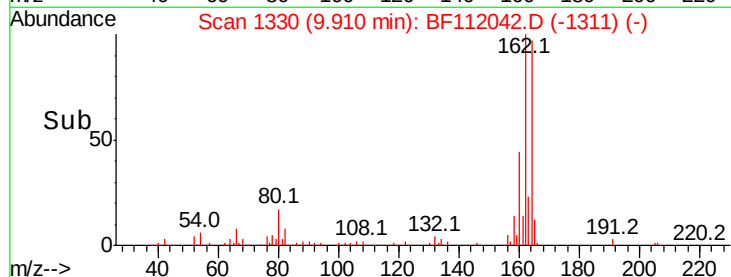


Abundance Ion 165.00 (164.70 to 165.70): E

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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF112042.D

Acq: 12 Jan 2019 3:57

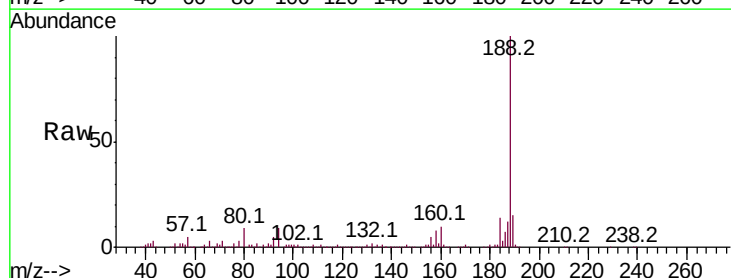
Tgt Ion:188 Resp: 305388

Ion Ratio Lower Upper

188 100

94 8.6 6.6 10.0

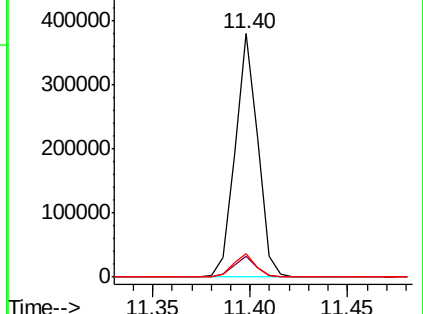
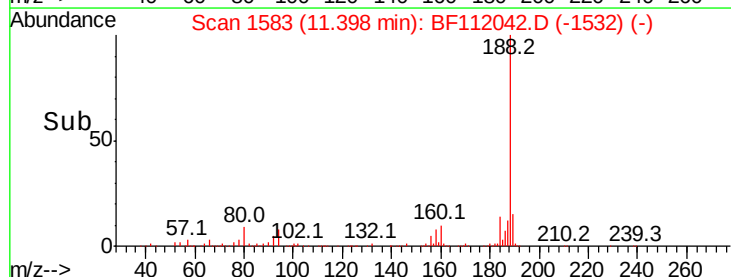
80 9.5 7.7 11.5

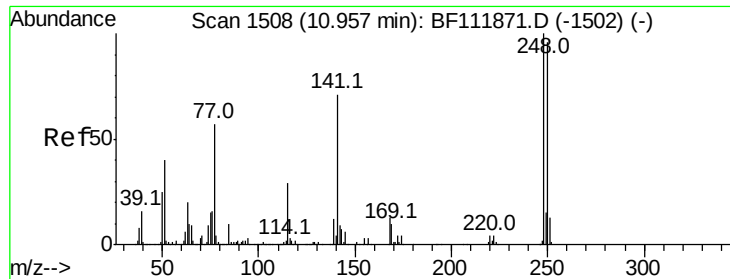


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

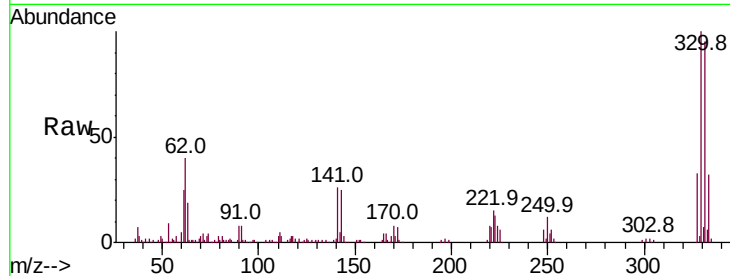




#67  
 4-Bromophenyl-phenylether  
 Concen: 3.010 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.24 min  
 Lab File: BF112042.D  
 Acq: 12 Jan 2019 3:57

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 210.7 | 76.8  | 115.2# |
| 141     | 457.0 | 57.0  | 85.6#  |

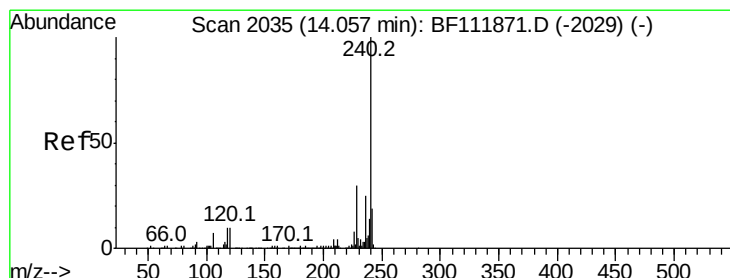
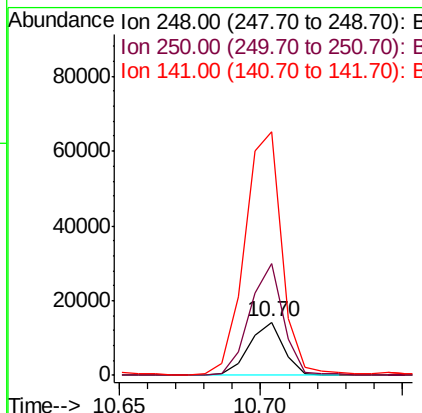
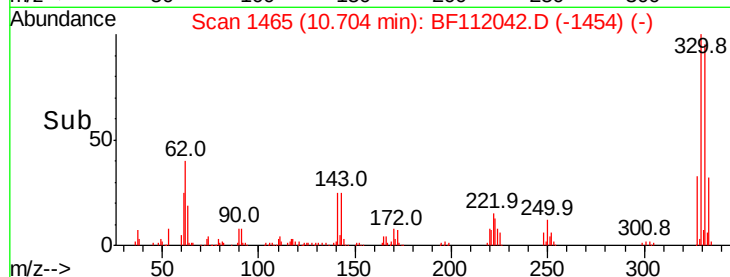


Abundance

Ion 248.00 (247.70 to 248.70): E

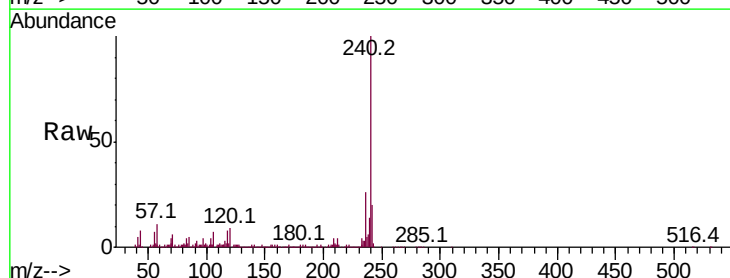
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.04 min Scan# 2032  
 Delta R.T. -0.01 min  
 Lab File: BF112042.D  
 Acq: 12 Jan 2019 3:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.2   | 8.2   | 12.2  |
| 236     | 26.3  | 20.2  | 30.4  |

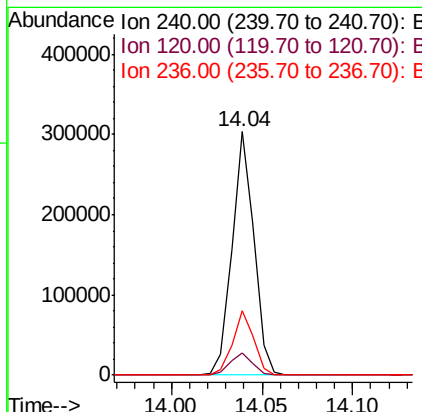
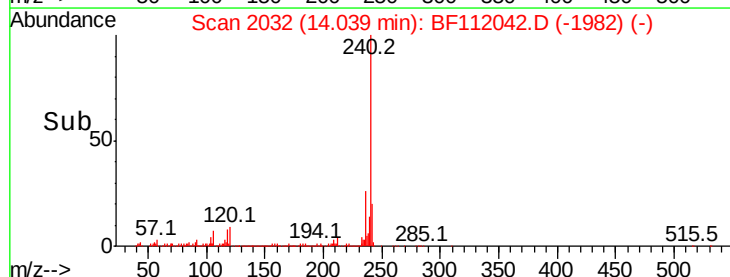


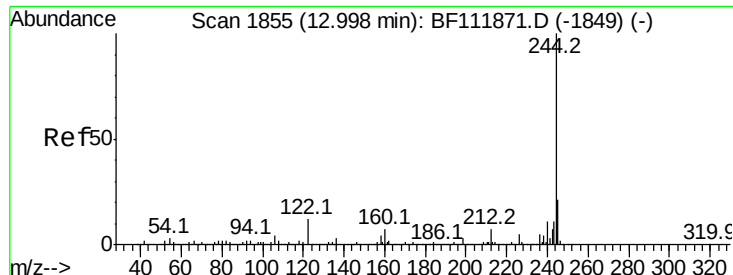
Abundance

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

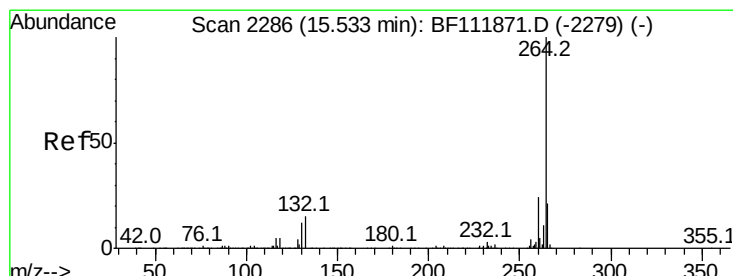
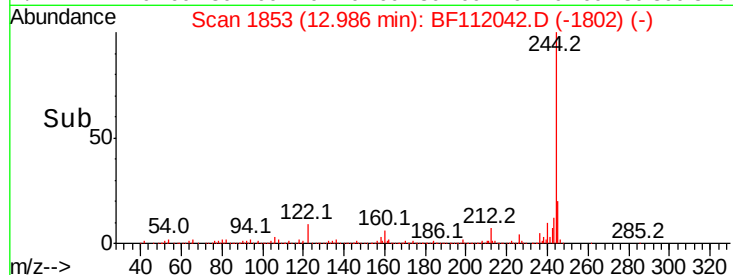
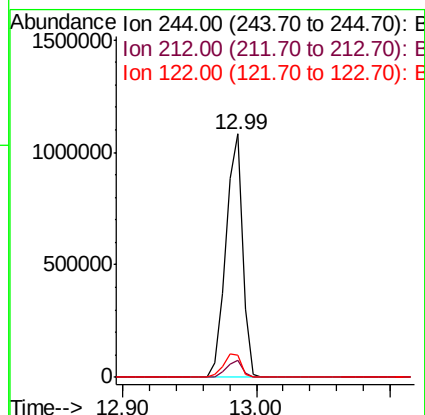
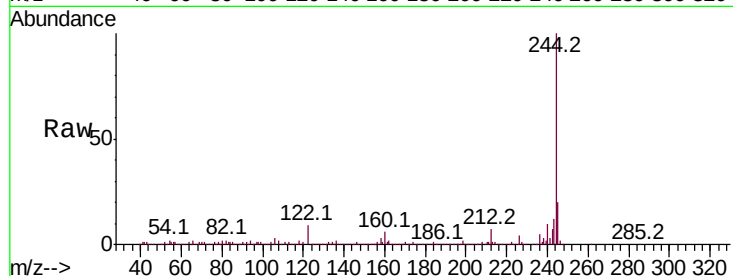




#79  
 Terphenyl-d14  
 Concen: 71.780 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.00 min  
 Lab File: BF112042.D  
 Acq: 12 Jan 2019 3:57

Instrument :  
 BNA\_F  
 ClientSampleID :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.8   | 8.8   |
| 122     | 9.1   | 9.5   | 14.3  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.52 min Scan# 2284  
 Delta R.T. 0.01 min  
 Lab File: BF112042.D  
 Acq: 12 Jan 2019 3:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 19.2  | 28.8  |
| 265     | 21.1  | 17.1  | 25.7  |

