

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF020419\  
 Data File : BF112386.D  
 Acq On : 4 Feb 2019 18:00  
 Operator : JU/SJ  
 Sample : K1292-02  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1

Quant Time: Feb 04 23:47:03 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

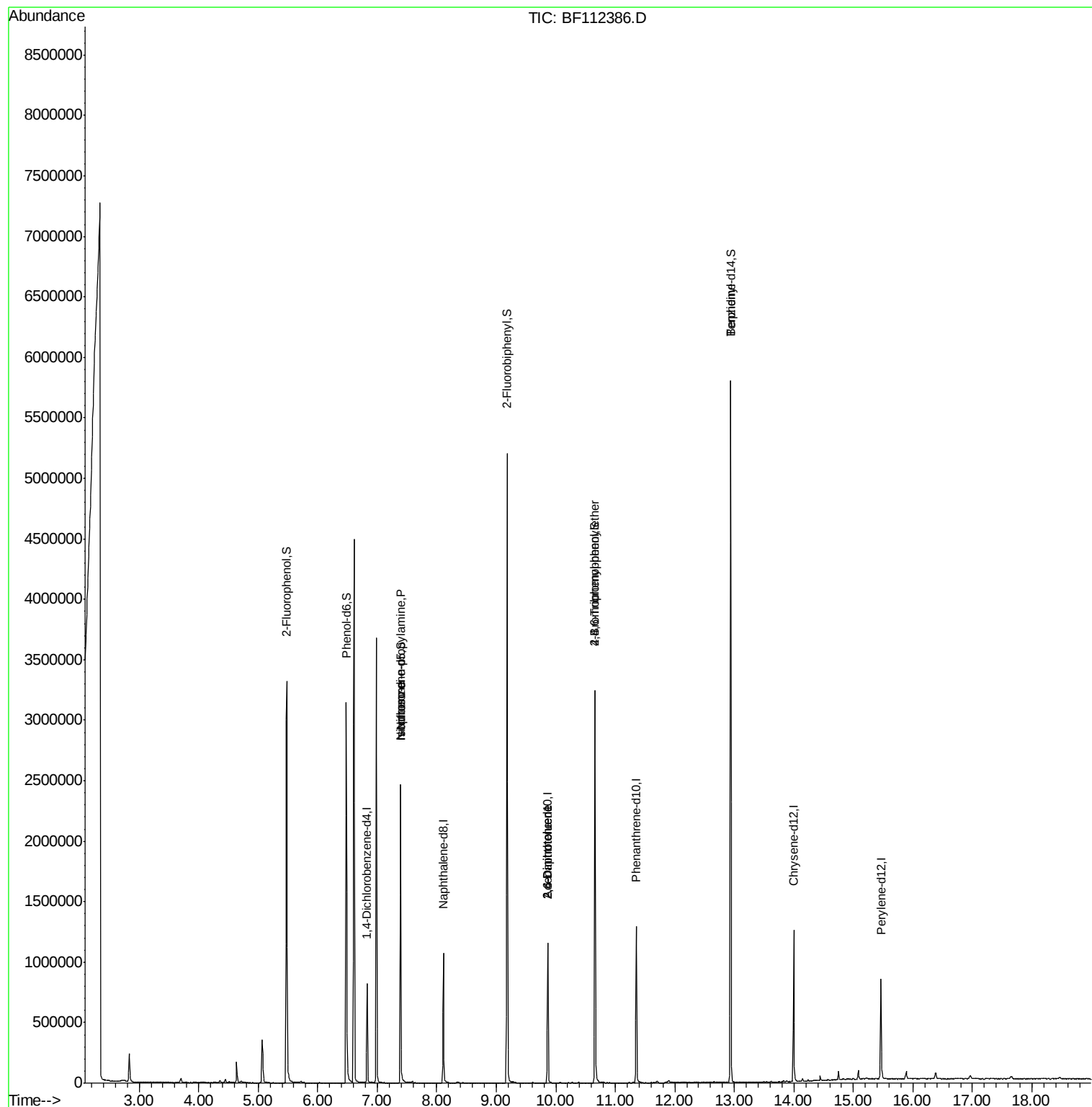
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 139927   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.11  | 136  | 526164   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.86  | 164  | 256280   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.35 | 188  | 511871   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.00 | 240  | 461242   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.46 | 264  | 348427   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 995783   | 151.16 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.48  | 99   | 1119236  | 122.27 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 861176   | 94.31  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 434065   | 145.51 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 1708973  | 94.31  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.94 | 244  | 1986186  | 81.10  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 117379   | 18.596 | ng    | # 77     |
| 25) Isophorone                 | 7.39  | 82   | 861170   | 60.114 | ng    | # 63     |
| 51) 2,6-Dinitrotoluene         | 9.86  | 165  | 33245    | 7.455  | ng    | # 34     |
| 57) 2,4-Dinitrotoluene         | 9.86  | 165  | 33245    | 5.856  | ng    | # 32     |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 26196    | 4.351  | ng    | # 1      |
| 77) Benzidine                  | 12.94 | 184  | 26407    | 2.080  | ng    | # 94     |

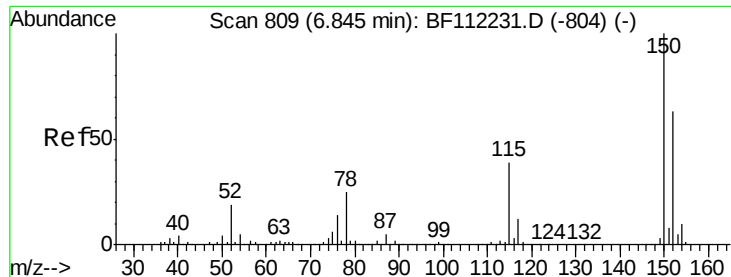
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.83 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Instrument :

BNA\_F

ClientSampled :

WC-1

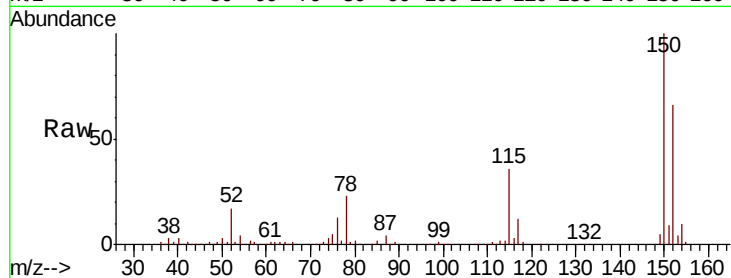
Tgt Ion:152 Resp: 139927

Ion Ratio Lower Upper

152 100

150 150.9 127.4 191.0

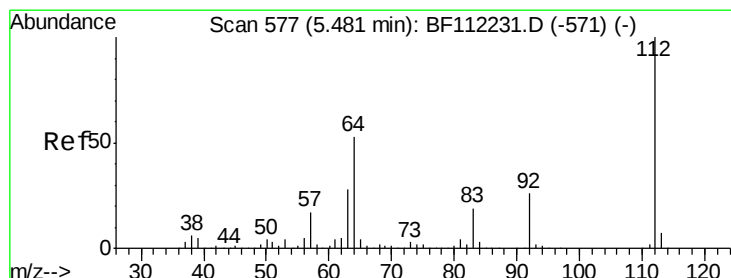
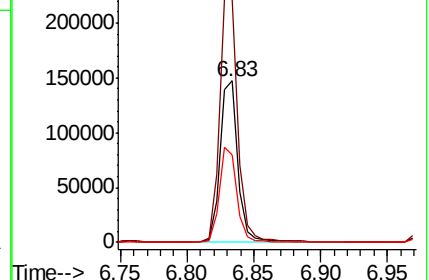
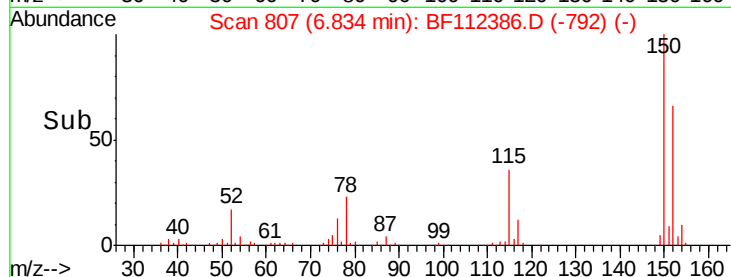
115 54.0 45.5 68.3



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: 151.158 ng

RT: 5.48 min Scan# 577

Delta R.T. 0.00 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

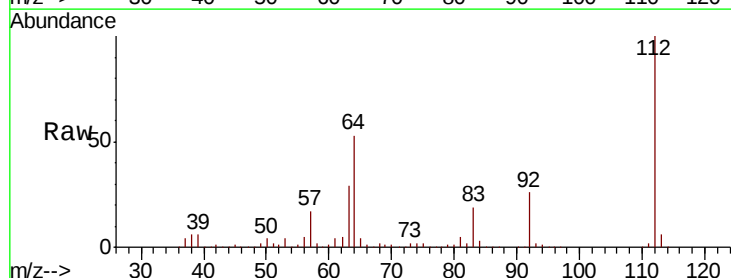
Tgt Ion:112 Resp: 995783

Ion Ratio Lower Upper

112 100

64 53.0 45.7 68.5

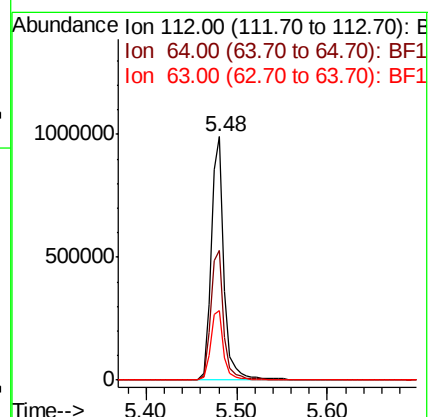
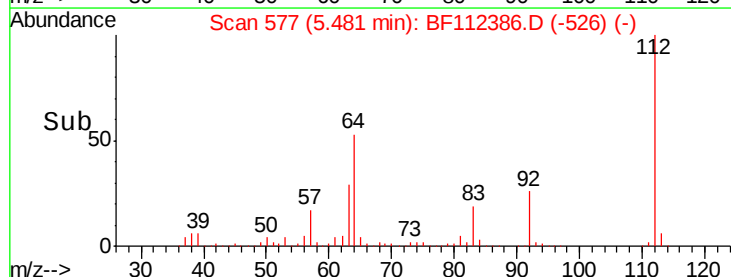
63 28.8 23.6 35.4



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: 122.268 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Instrument :

BNA\_F

ClientSampled :

WC-1

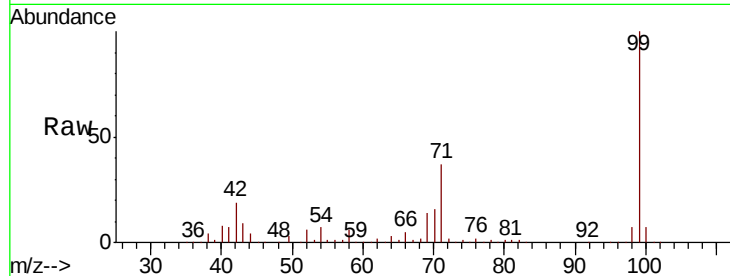
Tgt Ion: 99 Resp: 1119236

Ion Ratio Lower Upper

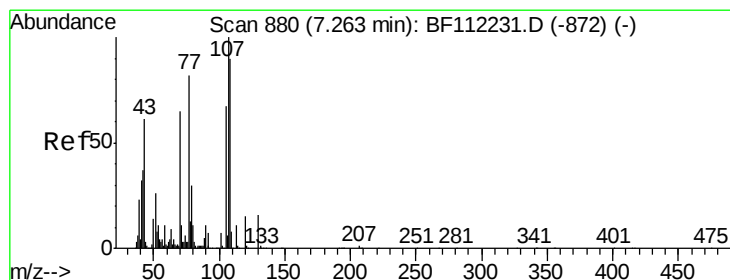
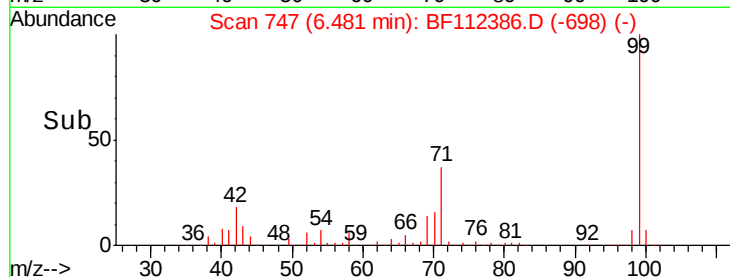
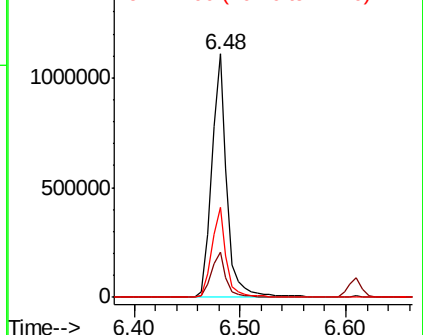
99 100

42 18.5 15.1 22.7

71 36.8 26.9 40.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 18.596 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.13 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Tgt Ion: 70 Resp: 117379

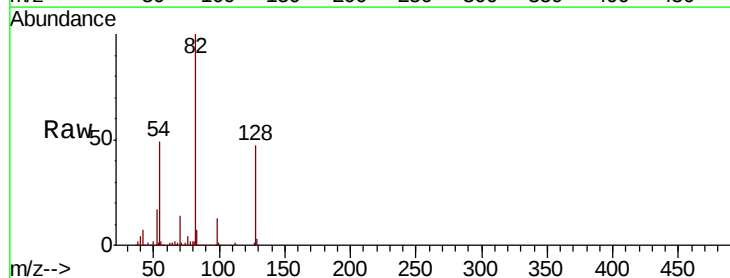
Ion Ratio Lower Upper

70 100

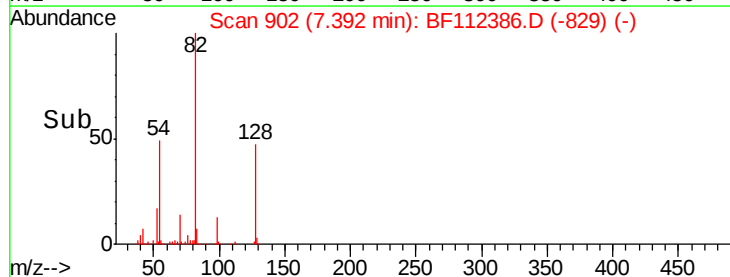
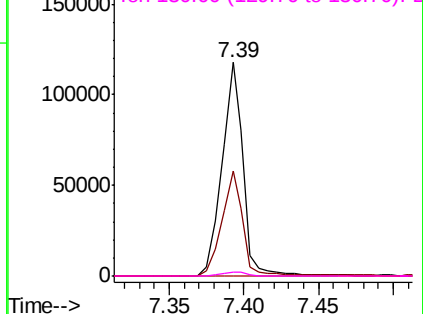
42 49.1 47.6 71.4

101 0.0 7.9 11.9#

130 2.0 18.4 27.6#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E

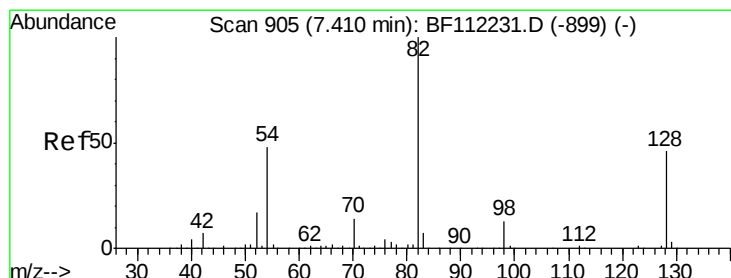
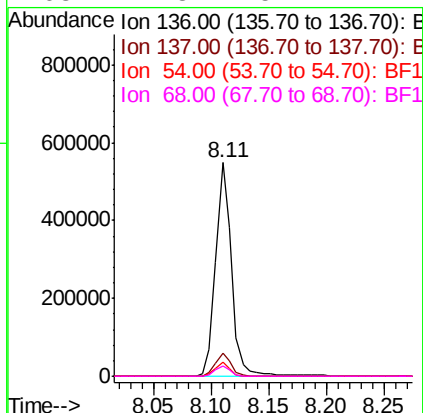
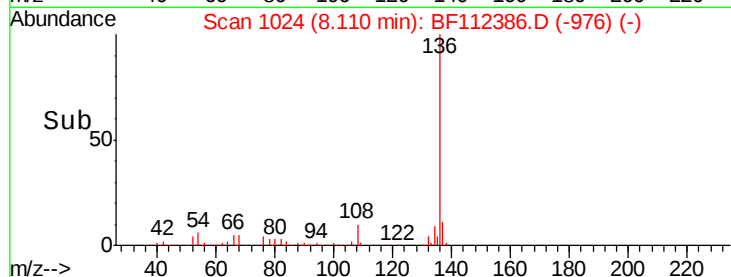
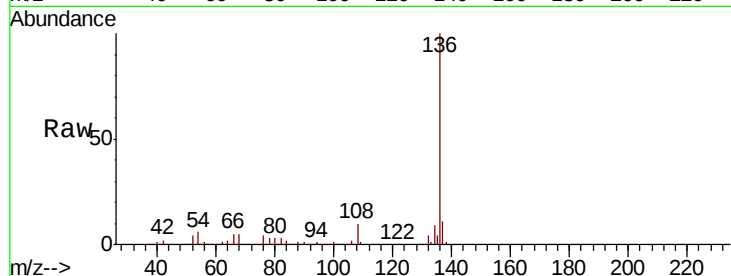




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.11 min Scan# 1024  
Delta R.T. -0.02 min  
Lab File: BF112386.D  
Acq: 4 Feb 2019 18:00

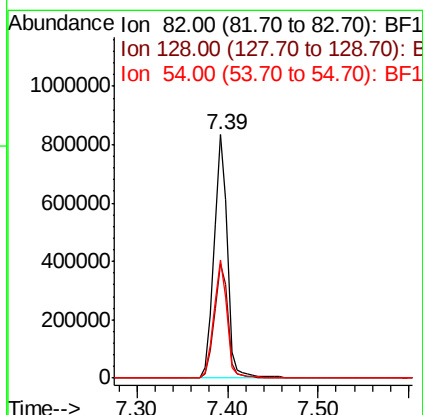
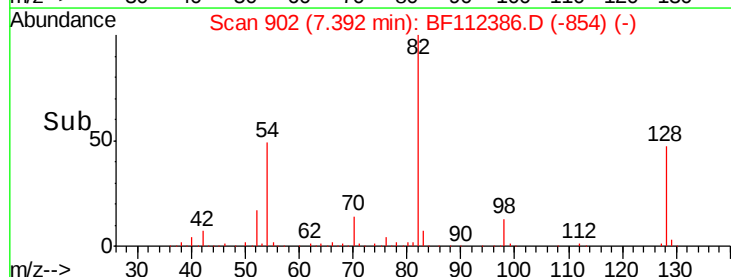
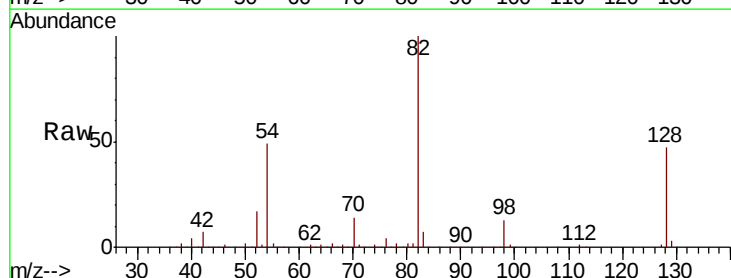
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 526164 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.1   | 13.7   |
| 54       | 6.4   | 5.9   | 8.9    |
| 68       | 4.8   | 5.1   | 7.7#   |



#23  
Nitrobenzene-d5  
Concen: 94.307 ng  
RT: 7.39 min Scan# 902  
Delta R.T. -0.02 min  
Lab File: BF112386.D  
Acq: 4 Feb 2019 18:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 861176 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.1  | 37.8  | 56.8   |
| 54       | 48.8  | 39.7  | 59.5   |





#25

Isophorone

Concen: 60.114 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.28 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Instrument :

BNA\_F

ClientSampleId :

WC-1

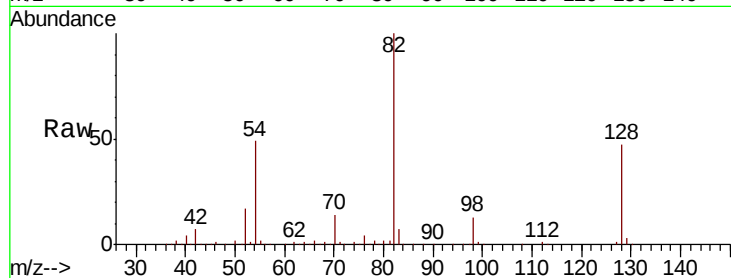
Tgt Ion: 82 Resp: 861170

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

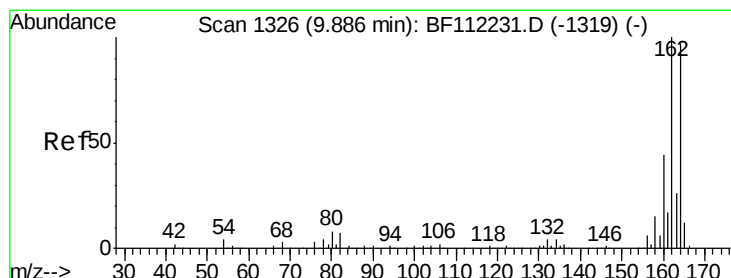
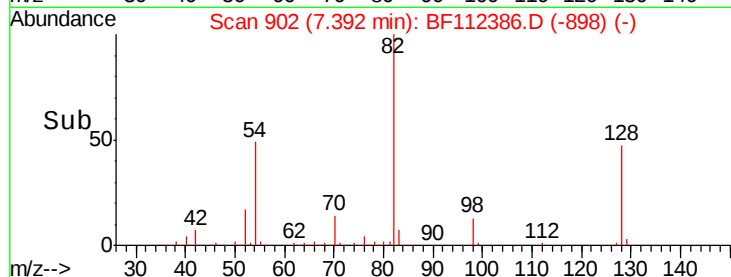
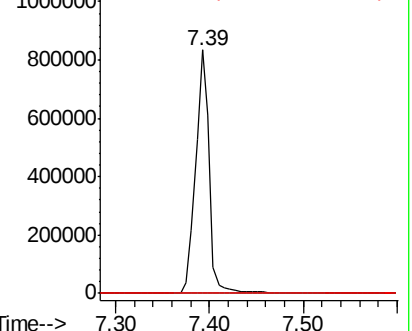
138 0.0 15.4 23.0#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.02 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

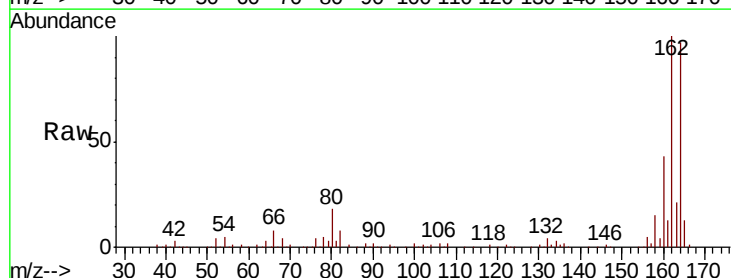
Tgt Ion: 164 Resp: 256280

Ion Ratio Lower Upper

164 100

162 103.1 82.2 123.4

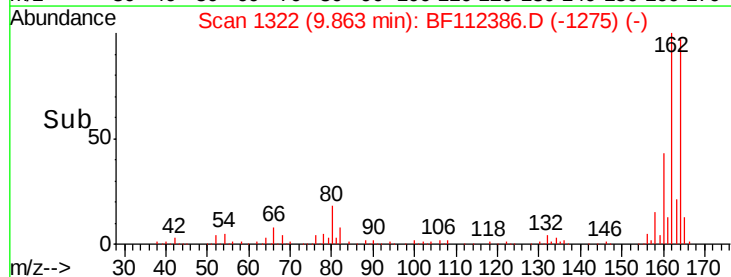
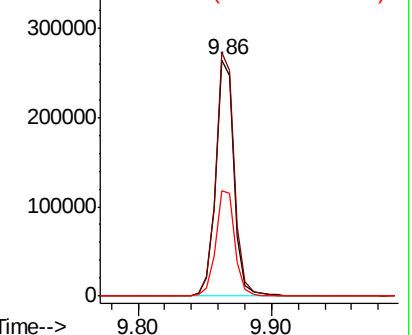
160 44.7 36.2 54.4

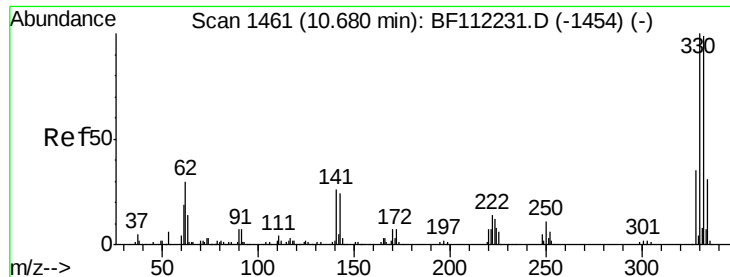


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

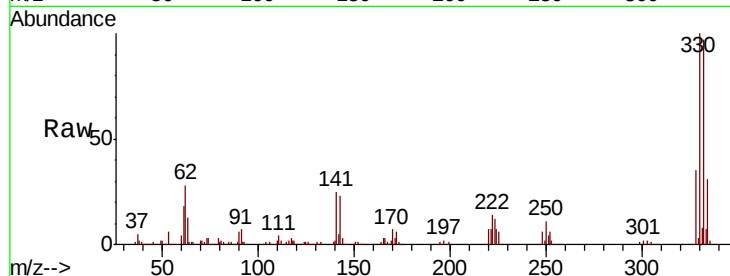




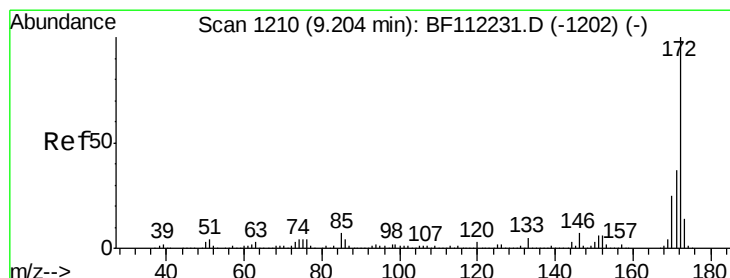
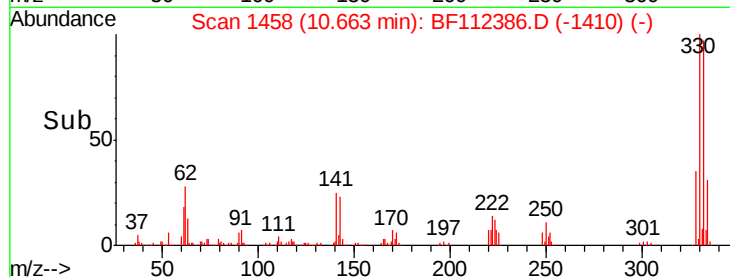
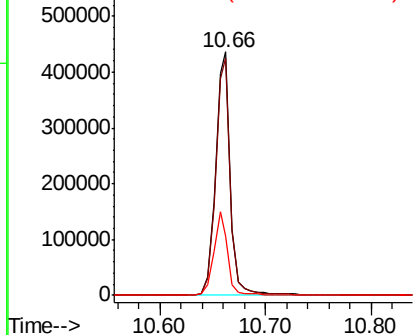
#42  
 2,4,6-Tribromophenol  
 Concen: 145.512 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.02 min  
 Lab File: BF112386.D  
 Acq: 4 Feb 2019 18:00

Instrument :  
 BNA\_F  
 ClientSampled :  
 WC-1

Tgt Ion:330 Resp: 434065  
 Ion Ratio Lower Upper  
 330 100  
 332 97.2 76.6 114.8  
 141 32.0 24.3 36.5

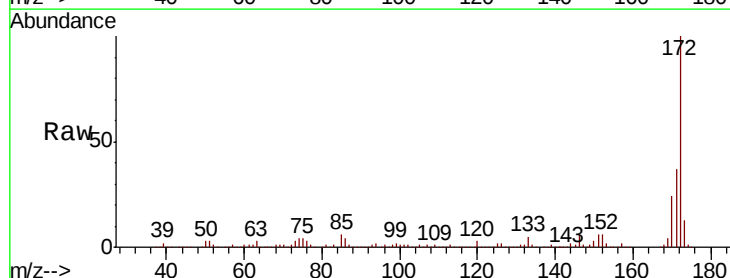


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

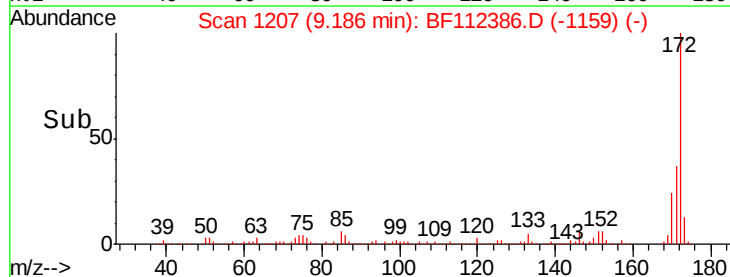
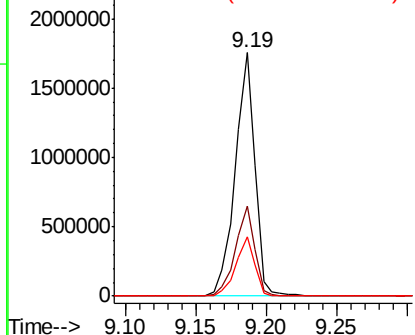


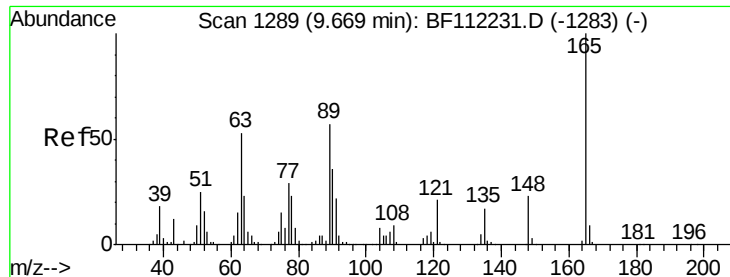
#45  
 2-Fluorobiphenyl  
 Concen: 94.313 ng  
 RT: 9.19 min Scan# 1207  
 Delta R.T. -0.02 min  
 Lab File: BF112386.D  
 Acq: 4 Feb 2019 18:00

Tgt Ion:172 Resp: 1708973  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 30.5 45.7  
 170 24.4 20.2 30.4



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





#51

2,6-Dinitrotoluene

Concen: 7.455 ng

RT: 9.86 min Scan# 1322

Delta R.T. 0.19 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Instrument :

BNA\_F

ClientSampleId :

WC-1

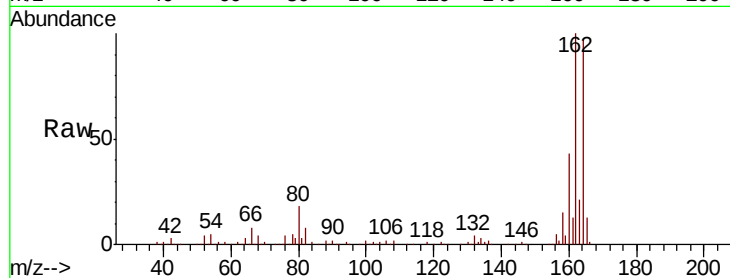
Tgt Ion:165 Resp: 33245

Ion Ratio Lower Upper

165 100

63 1.4 33.8 50.8#

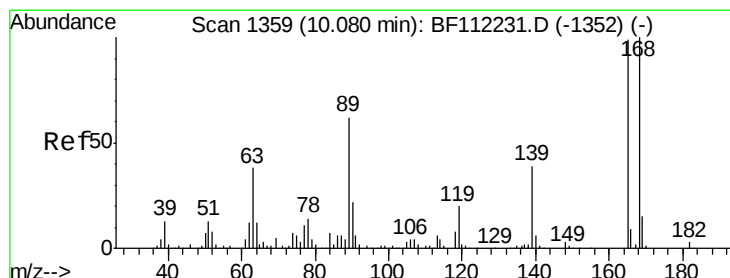
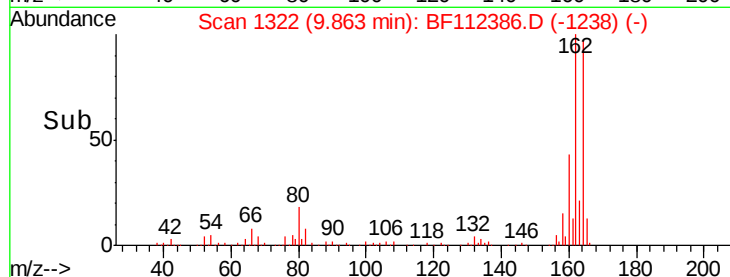
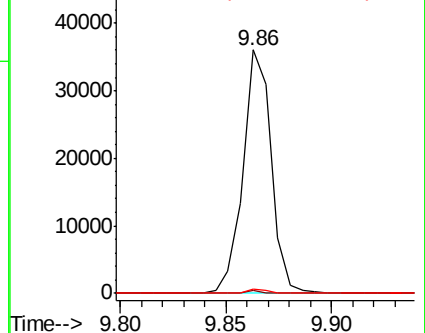
89 1.5 36.9 55.3#



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: 5.856 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.22 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Tgt Ion:165 Resp: 33245

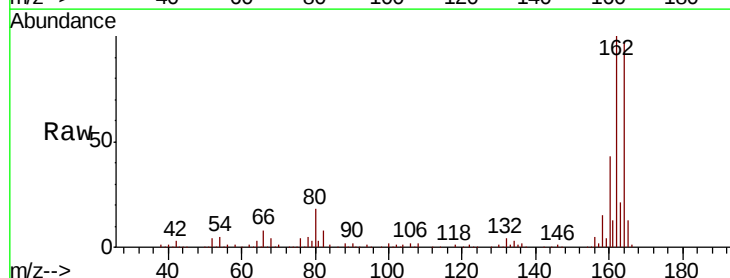
Ion Ratio Lower Upper

165 100

63 1.4 27.9 41.9#

89 1.5 47.9 71.9#

182 0.0 2.2 3.4#

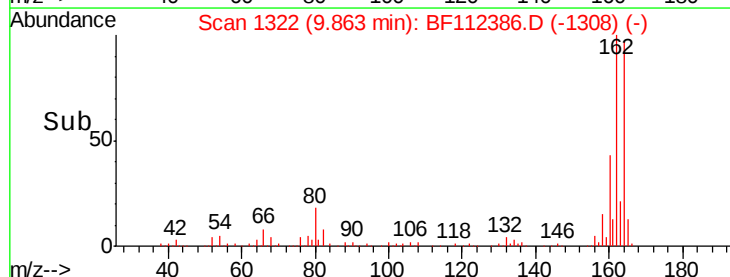
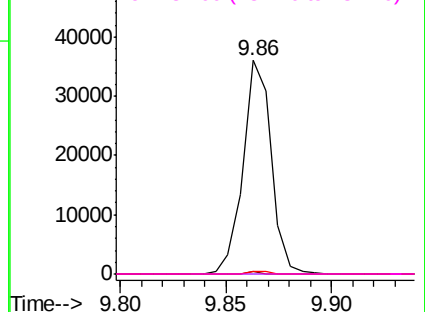


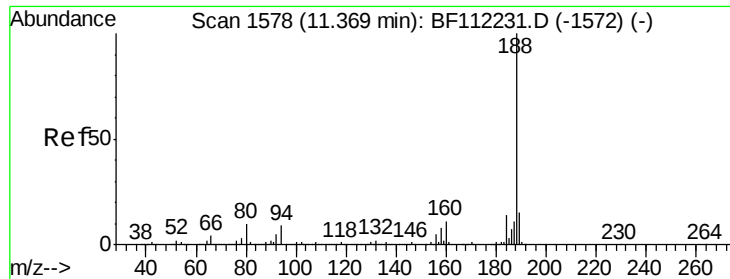
Abundance Ion 165.00 (164.70 to 165.70): E

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

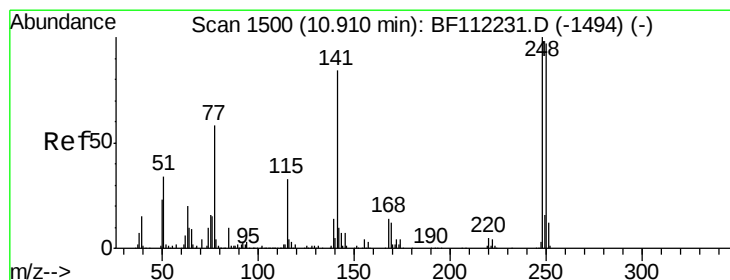
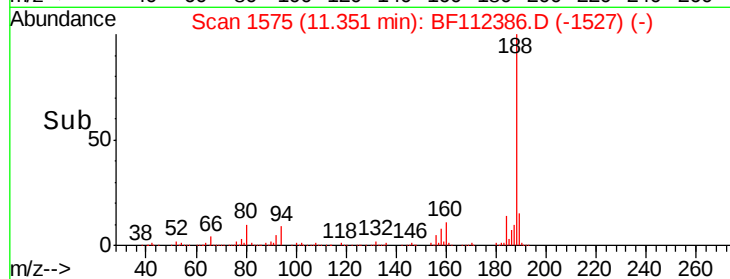
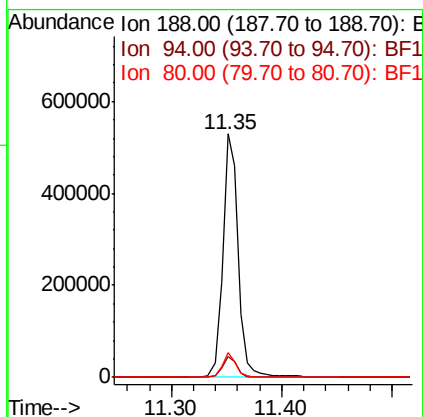
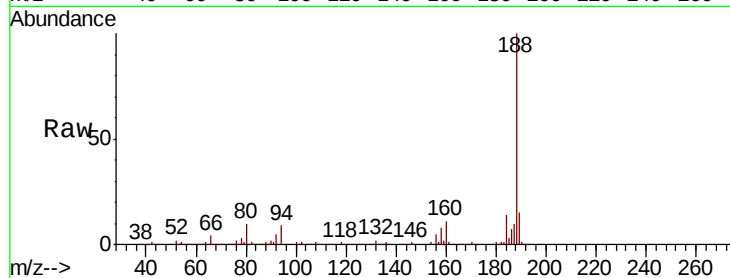




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.35 min Scan# 1575  
 Delta R.T. -0.02 min  
 Lab File: BF112386.D  
 Acq: 4 Feb 2019 18:00

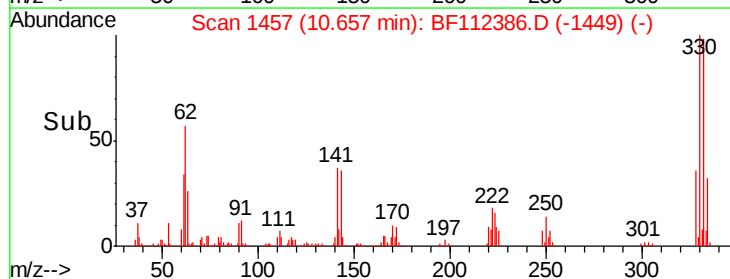
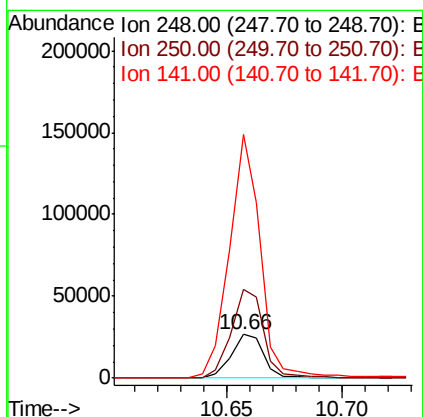
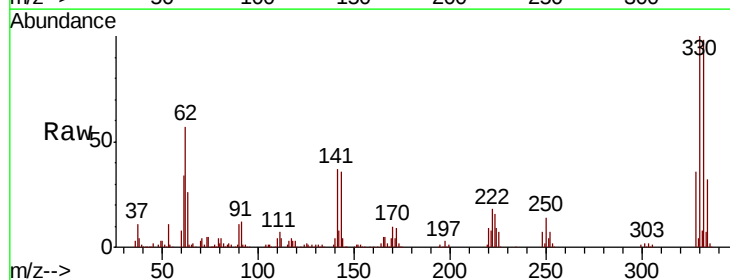
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1

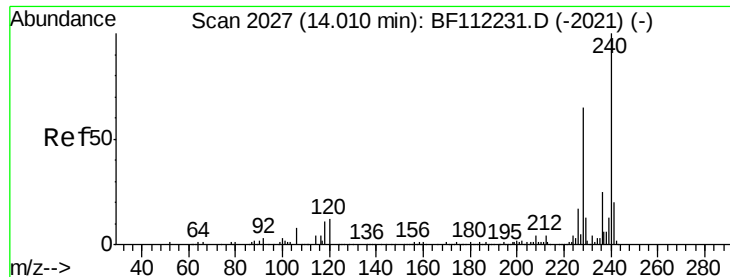
Tgt Ion:188 Resp: 511871  
 Ion Ratio Lower Upper  
 188 100  
 94 8.8 8.2 12.2  
 80 10.0 8.9 13.3



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.351 ng  
 RT: 10.66 min Scan# 1457  
 Delta R.T. -0.25 min  
 Lab File: BF112386.D  
 Acq: 4 Feb 2019 18:00

Tgt Ion:248 Resp: 26196  
 Ion Ratio Lower Upper  
 248 100  
 250 204.3 79.7 119.5#  
 141 558.7 60.3 90.5#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Instrument :

BNA\_F

ClientSampleId :

WC-1

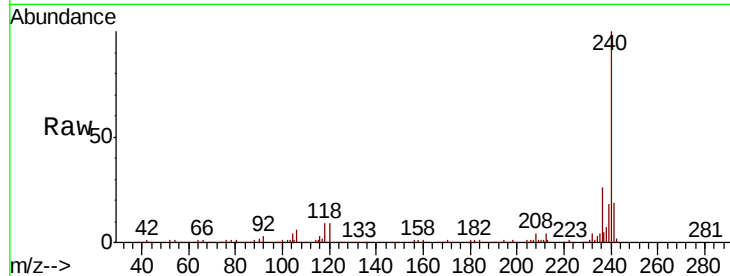
Tgt Ion:240 Resp: 461242

Ion Ratio Lower Upper

240 100

120 9.3 9.0 13.6

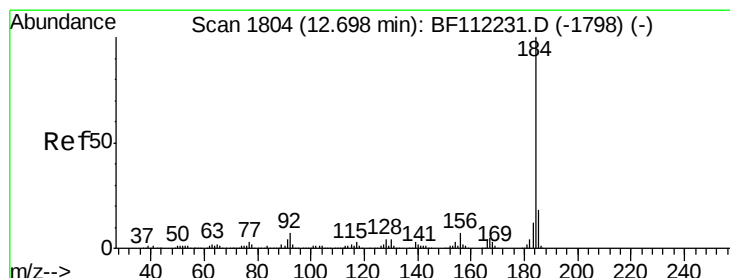
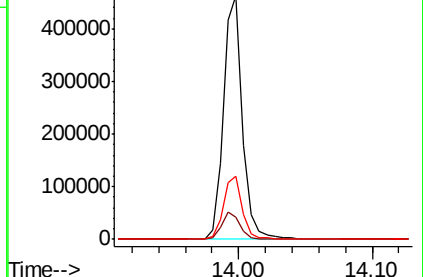
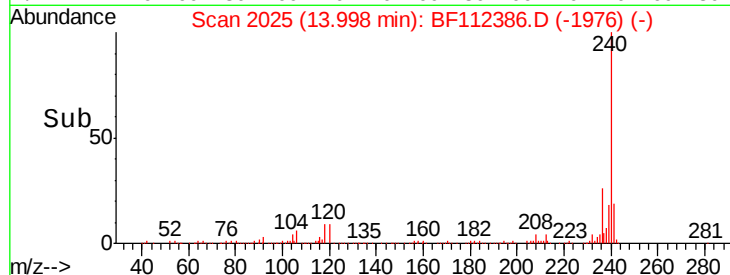
236 25.8 20.7 31.1



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



#77

Benzidine

Concen: 2.080 ng

RT: 12.94 min Scan# 1845

Delta R.T. 0.24 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

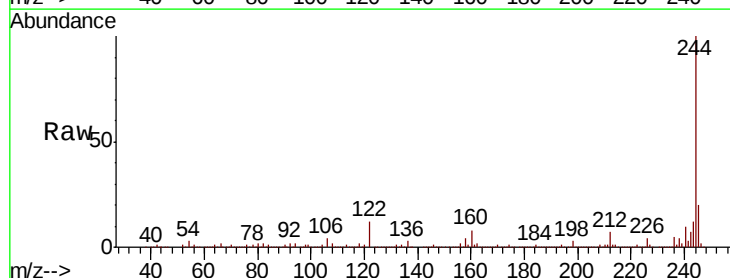
Tgt Ion:184 Resp: 26407

Ion Ratio Lower Upper

184 100

185 19.2 13.9 20.9

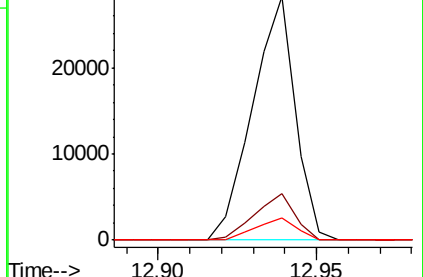
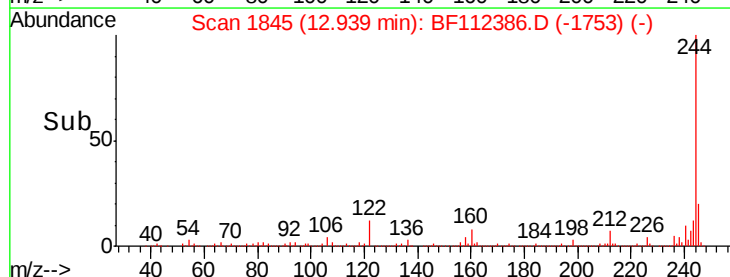
183 9.2 10.0 15.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 81.104 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

Instrument :

BNA\_F

ClientSampled :

WC-1

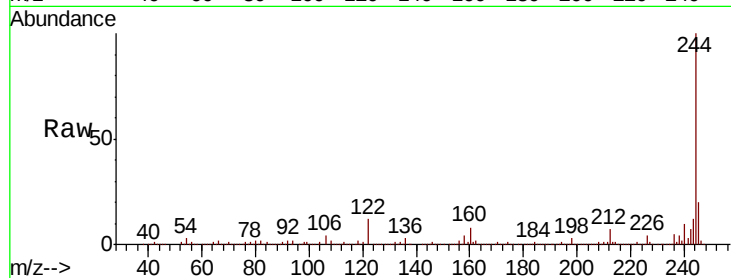
Tgt Ion:244 Resp: 1986186

Ion Ratio Lower Upper

244 100

212 7.3 5.9 8.9

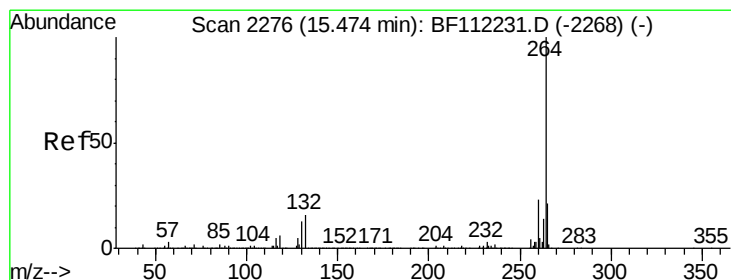
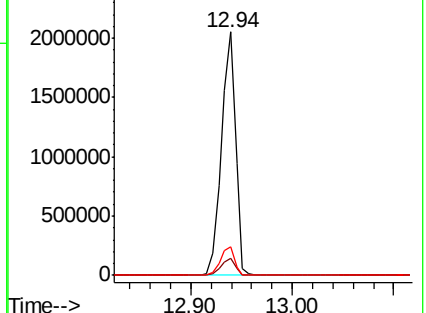
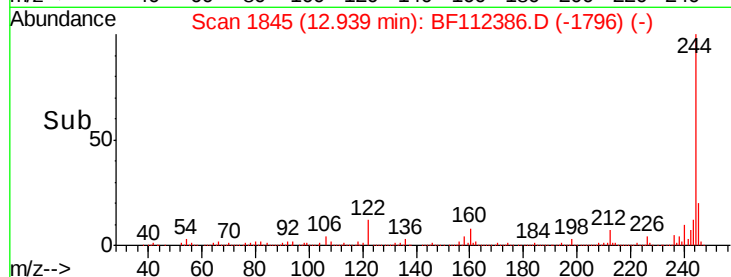
122 11.8 9.8 14.6



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. -0.01 min

Lab File: BF112386.D

Acq: 4 Feb 2019 18:00

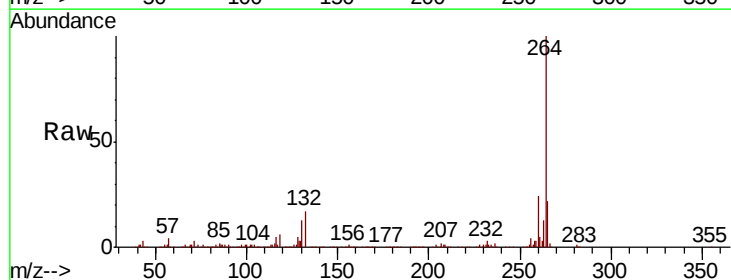
Tgt Ion:264 Resp: 348427

Ion Ratio Lower Upper

264 100

260 23.6 18.2 27.2

265 21.8 17.0 25.4



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

