

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082719\  
 Data File : BF116582.D  
 Acq On : 27 Aug 2019 13:51  
 Operator : HP/JU  
 Sample : PB122218BL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 27 17:48:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 23 13:38:31 2019  
 Response via : Initial Calibration

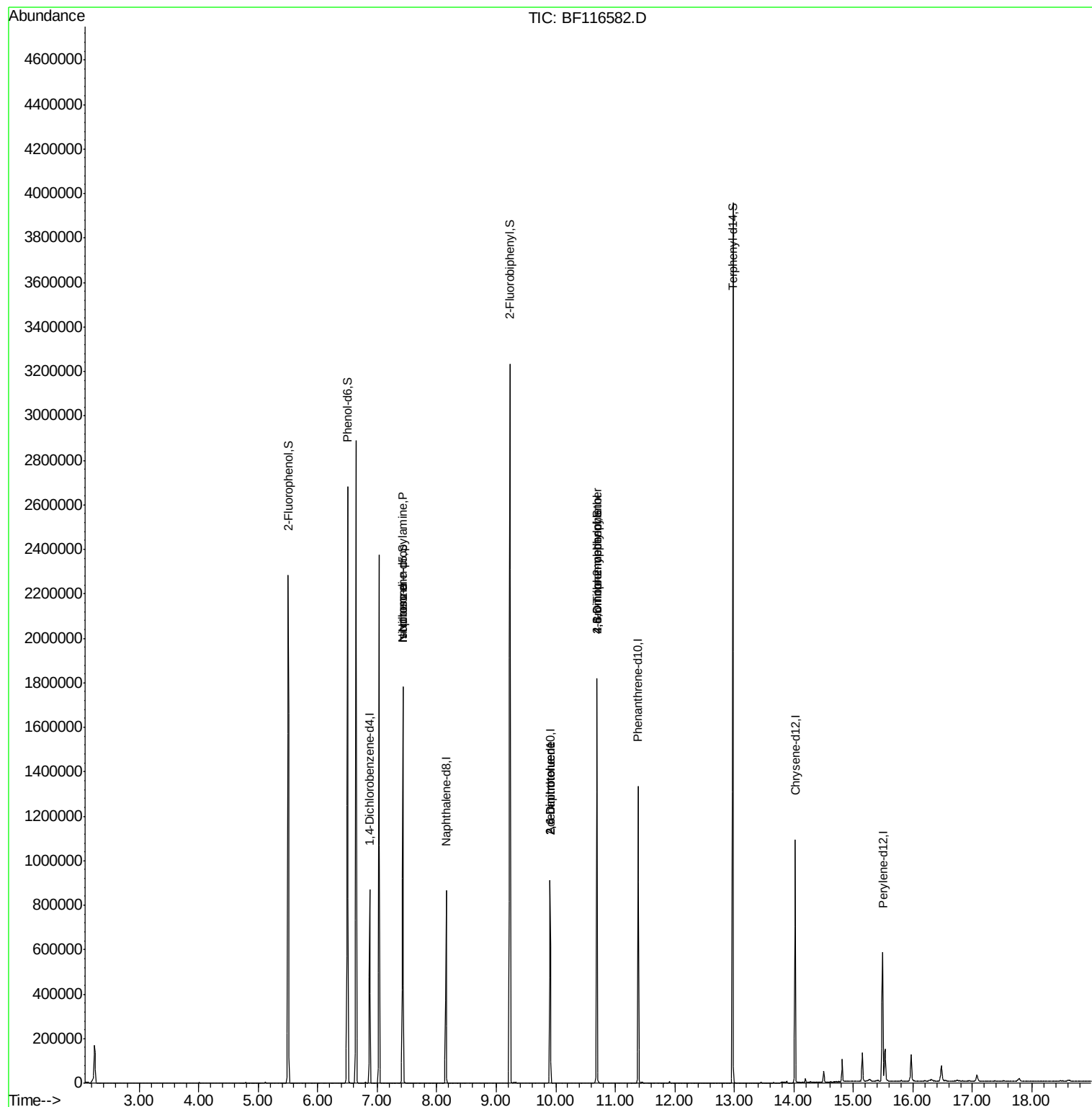
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 111643   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 443137   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.90  | 164  | 181681   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.39 | 188  | 451604   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 14.02 | 240  | 327942   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.49 | 264  | 284700   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 673811   | 88.19  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 958519   | 102.31 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 647689   | 79.96  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.69 | 330  | 186947   | 119.83 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 1046230  | 92.74  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.97 | 244  | 1327923  | 75.64  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 86783    | 13.575 | ng    | # 76     |
| 25) Isophorone                 | 7.43  | 82   | 644434   | 40.373 | ng    | # 67     |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 23465    | 9.044  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 23465    | 7.107  | ng    | # 20     |
| 65) 4,6-Dinitro-2-methylphenol | 10.69 | 198  | 344      | 7.164  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.69 | 248  | 12667    | 2.675  | ng    | # 1      |

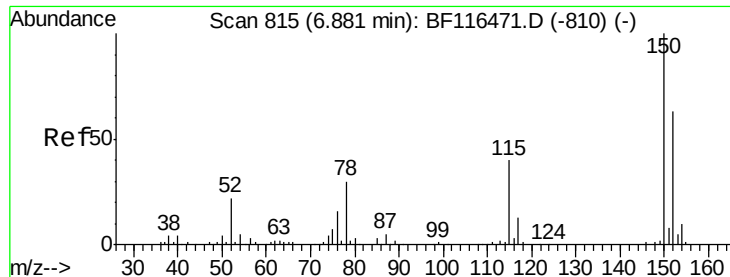
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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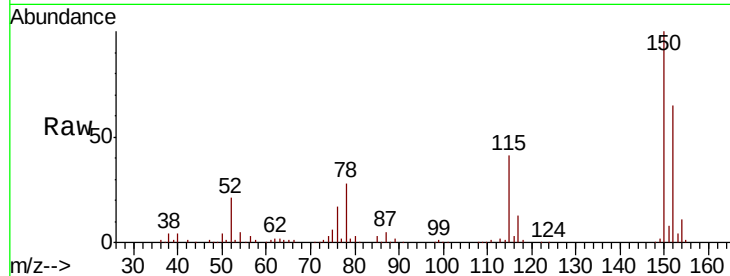


#1

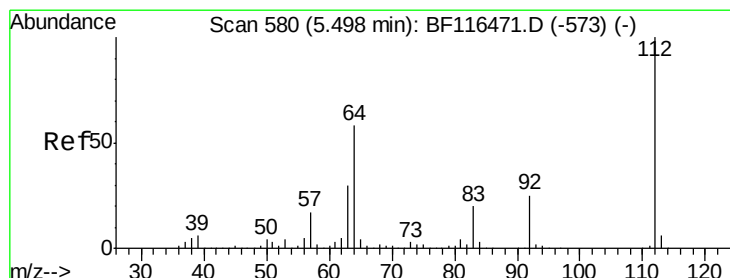
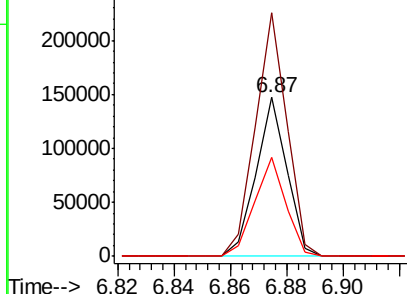
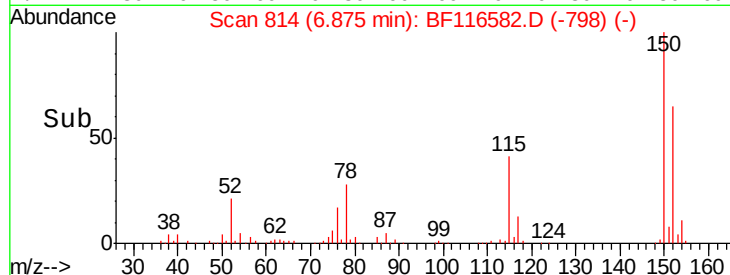
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.87 min Scan# 814  
 Delta R.T. -0.01 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 111643  
 Ion Ratio Lower Upper  
 152 100  
 150 153.2 126.7 190.1  
 115 62.7 50.9 76.3



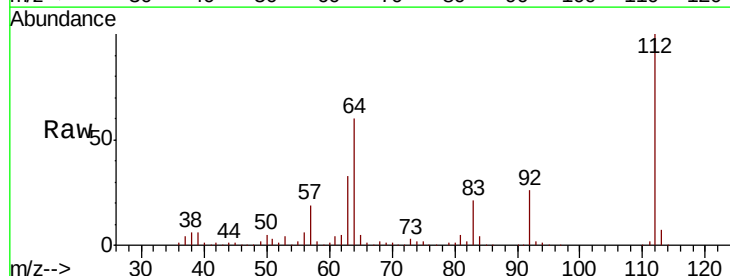
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



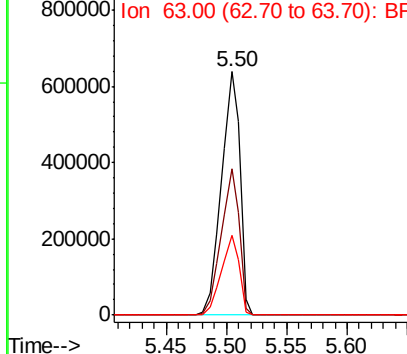
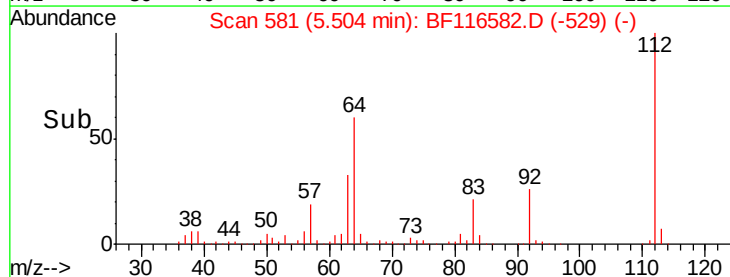
#5

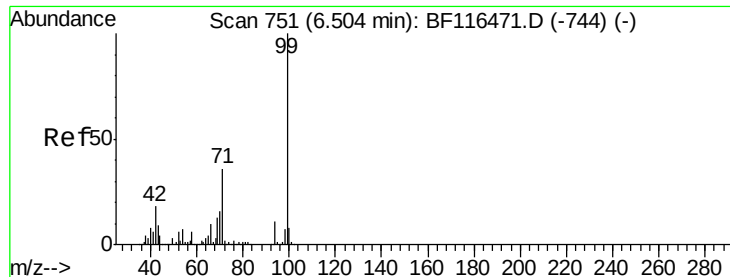
2-Fluorophenol  
 Concen: 88.186 ng  
 RT: 5.50 min Scan# 581  
 Delta R.T. 0.01 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

Tgt Ion:112 Resp: 673811  
 Ion Ratio Lower Upper  
 112 100  
 64 59.9 46.3 69.5  
 63 32.7 24.2 36.4



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: 102.311 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF116582.D

Acq: 27 Aug 2019 13:51

Instrument :

BNA\_F

ClientSampleId :

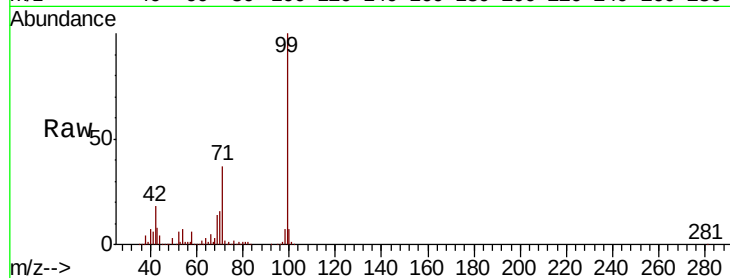
Tot Ion: 99 Resp: 958519

Ion Ratio Lower Upper

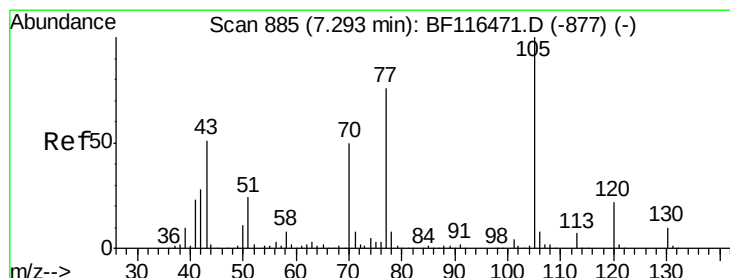
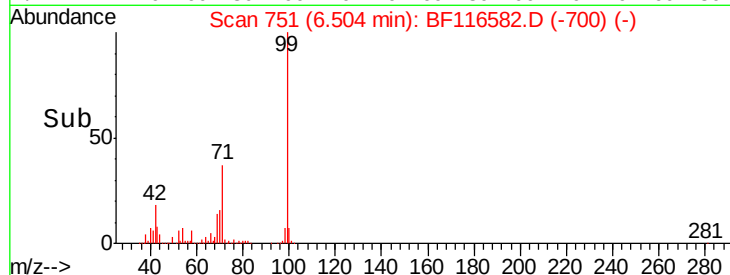
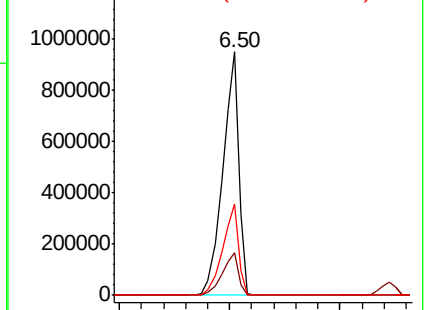
99 100

42 17.7 14.6 21.8

71 37.3 28.5 42.7



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: 13.575 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.14 min

Lab File: BF116582.D

Acq: 27 Aug 2019 13:51

Tgt Ion: 70 Resp: 86783

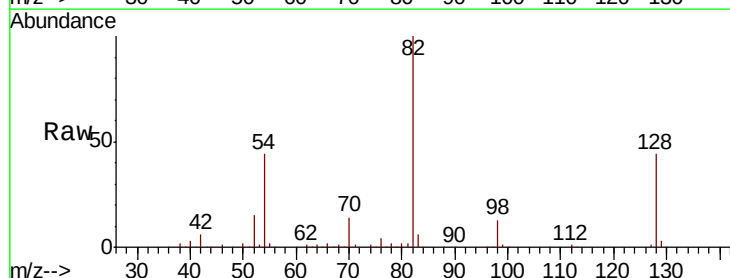
Ion Ratio Lower Upper

70 100

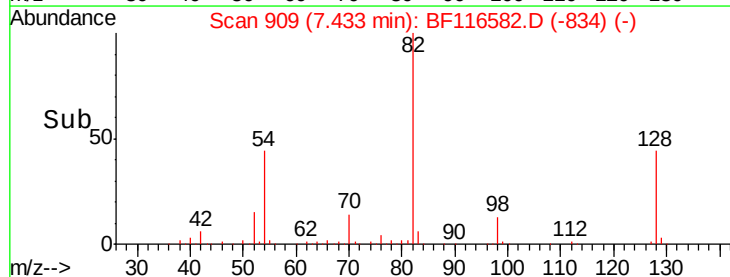
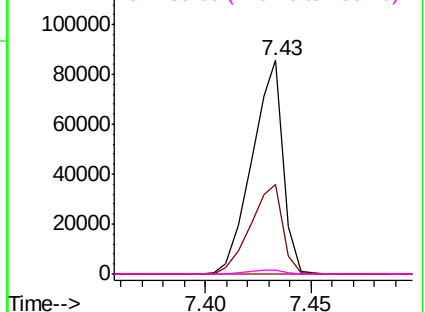
42 41.8 44.4 66.6#

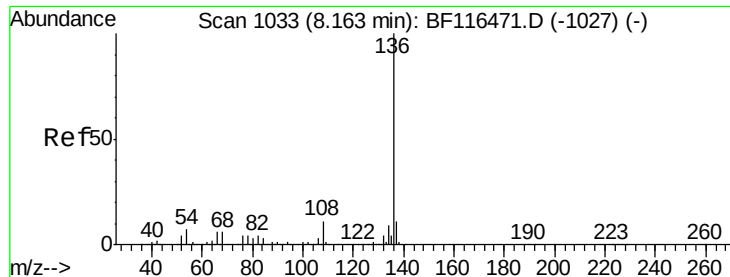
101 0.0 7.1 10.7#

130 2.0 15.8 23.8#



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): BF1  
Ion 130.00 (129.70 to 130.70): BF1

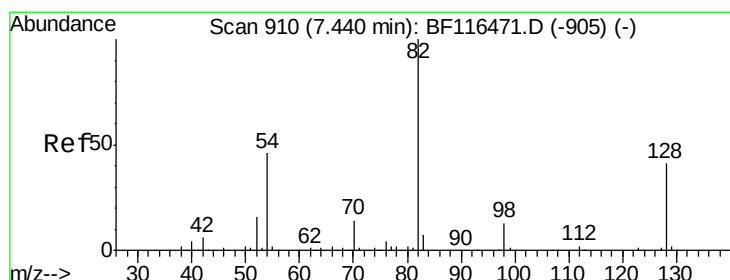
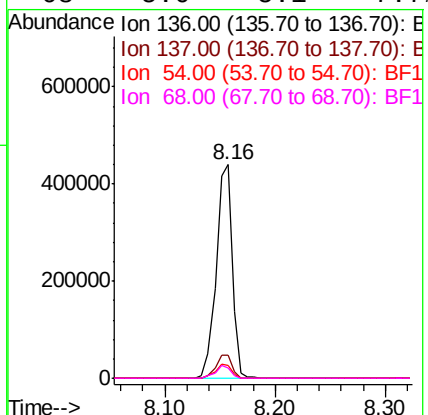
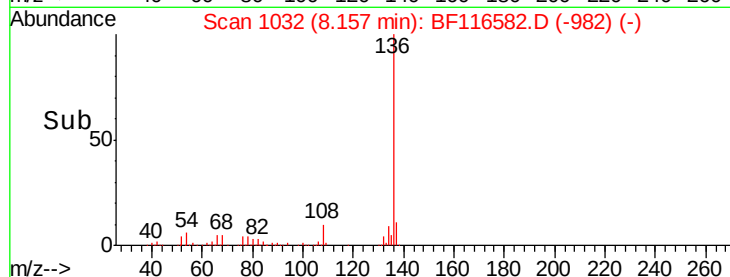
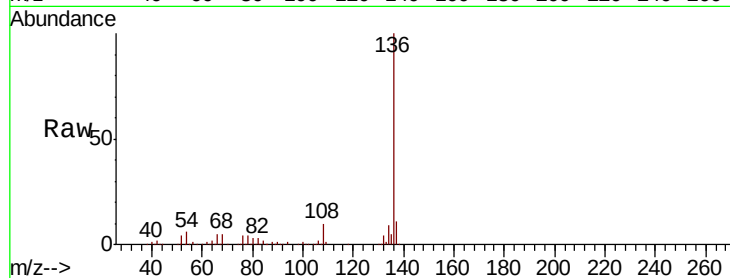




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. -0.01 min  
Lab File: BF116582.D  
Acq: 27 Aug 2019 13:51

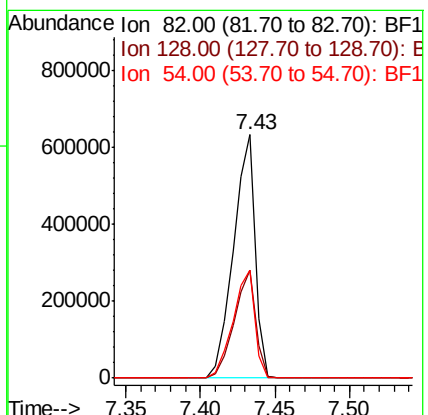
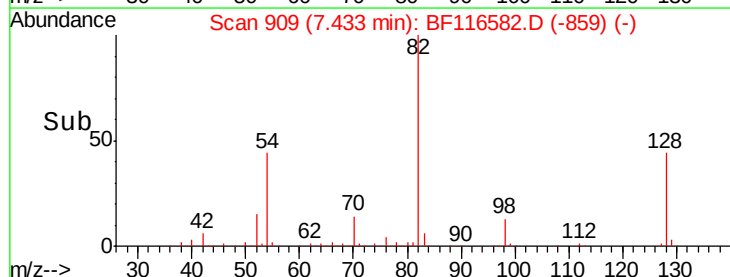
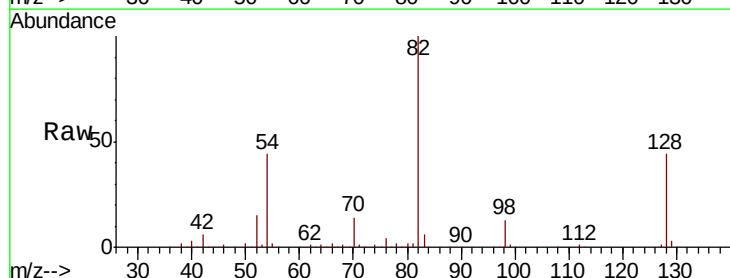
Instrument :  
BNA\_F  
ClientSampleId :

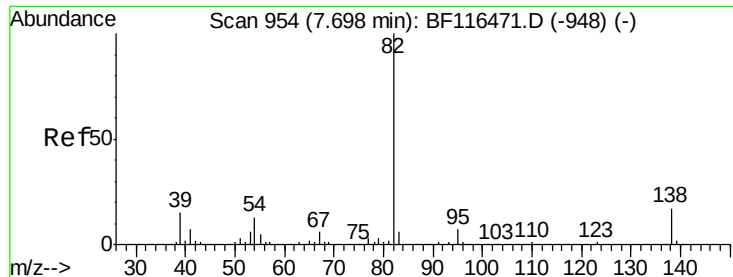
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 443137   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.0  | 9.0 13.4 |
| 54          | 5.9   | 5.8 8.6  |
| 68          | 5.0   | 5.1 7.7# |



#23  
Nitrobenzene-d5  
Concen: 79.964 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF116582.D  
Acq: 27 Aug 2019 13:51

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 647689    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 44.1  | 32.2 48.4 |
| 54          | 44.1  | 36.5 54.7 |





#25

Isophorone

Concen: 40.373 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.26 min

Lab File: BF116582.D

Acq: 27 Aug 2019 13:51

Instrument :

BNA\_F

ClientSampleId :

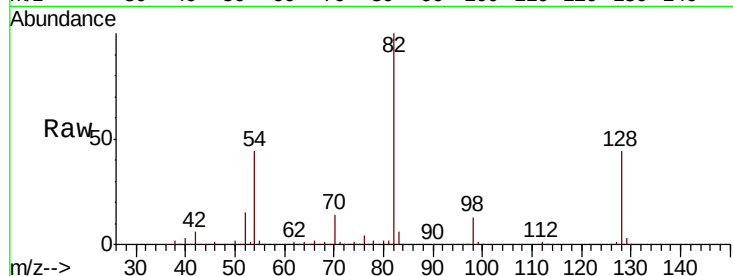
Tot Ion: 82 Resp: 644434

Ion Ratio Lower Upper

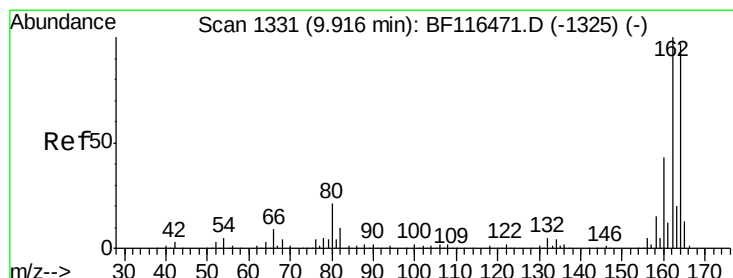
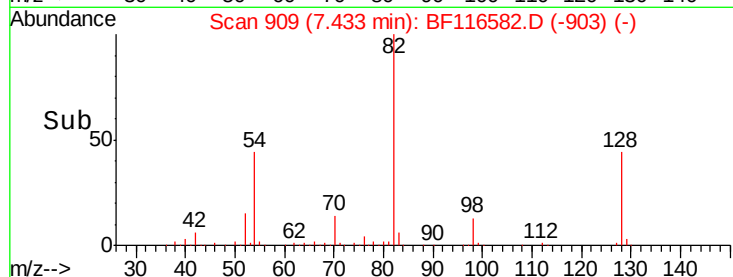
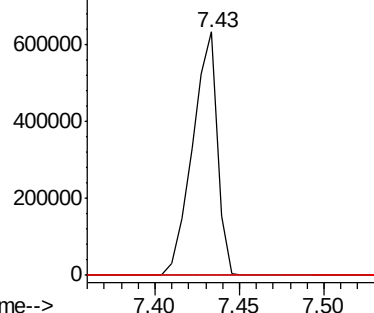
82 100

95 0.0 5.3 7.9#

138 0.0 13.3 19.9#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF116582.D

Acq: 27 Aug 2019 13:51

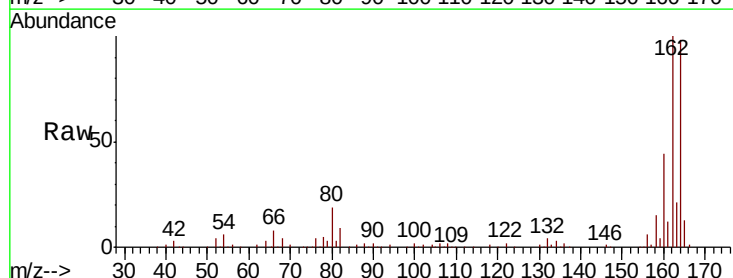
Tgt Ion:164 Resp: 181681

Ion Ratio Lower Upper

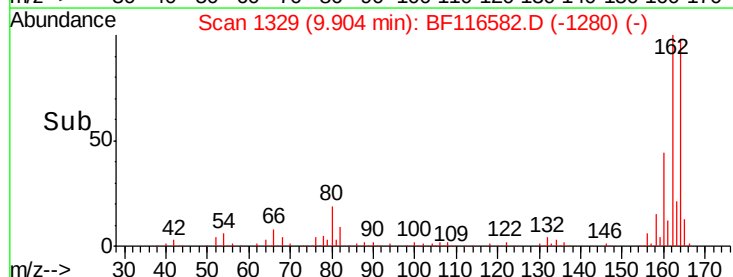
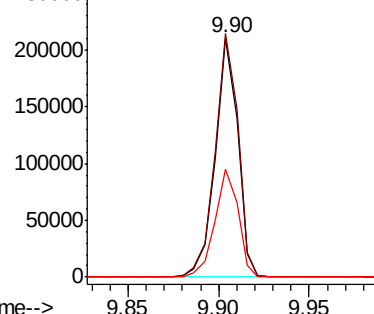
164 100

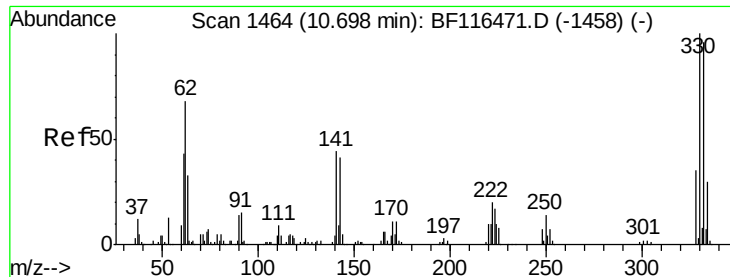
162 101.9 82.6 123.8

160 44.9 35.8 53.8



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

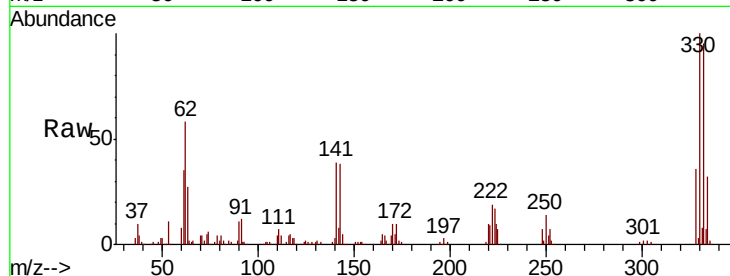




#42  
 2,4,6-Tribromophenol  
 Concen: 119.834 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 77.2  | 115.8 |
| 141     | 40.5  | 33.3  | 49.9  |

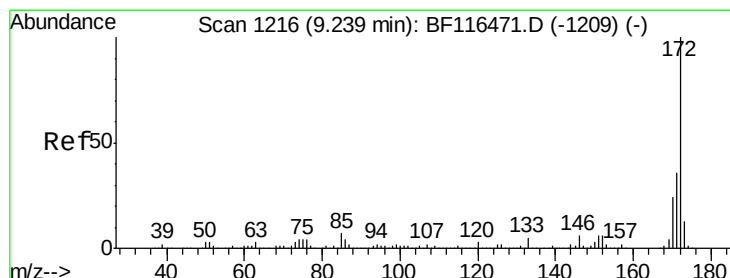
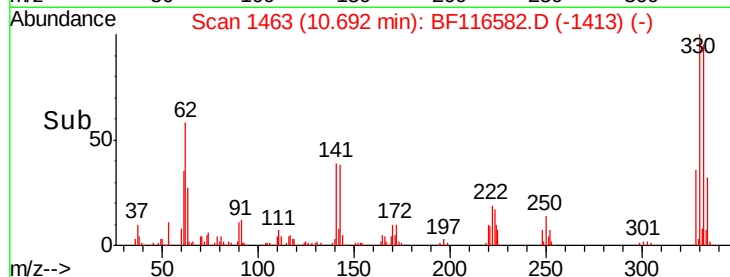
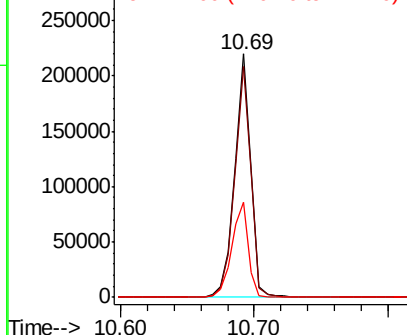


Abundance

Ion 329.80 (329.50 to 330.50): E

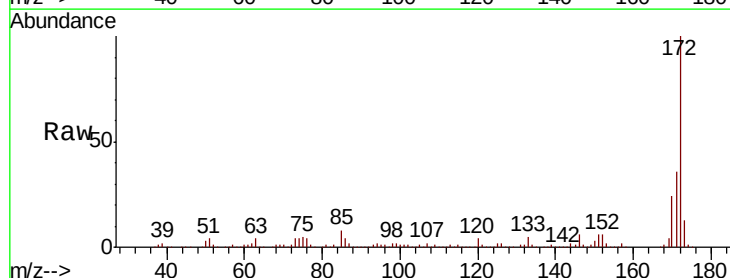
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 92.737 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 28.9  | 43.3  |
| 170     | 23.9  | 19.4  | 29.0  |

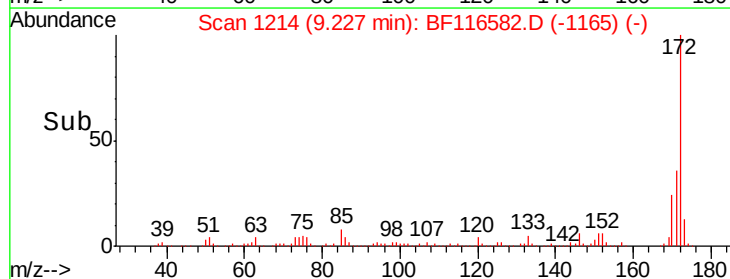
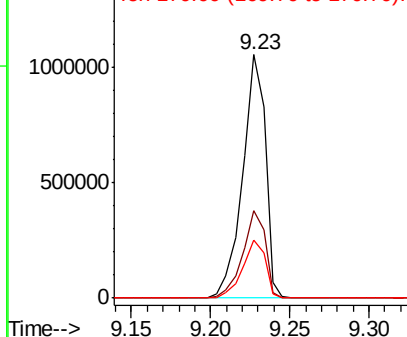


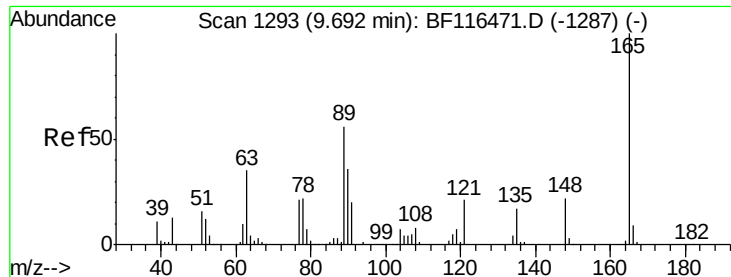
Abundance

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

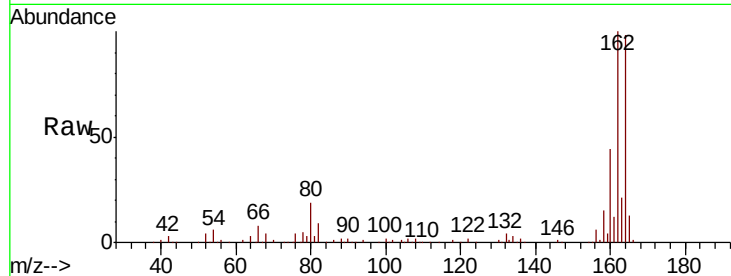




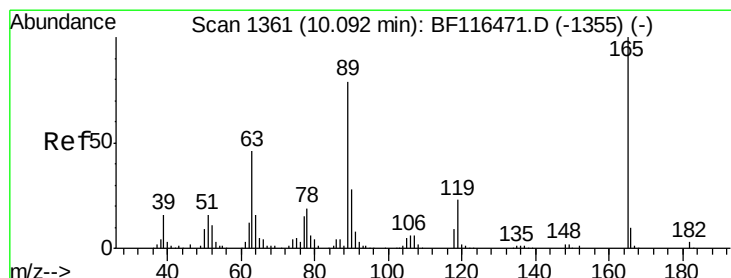
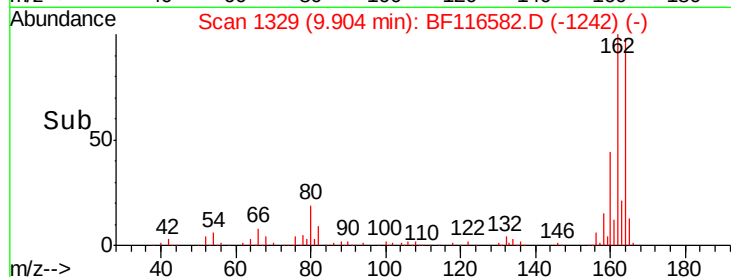
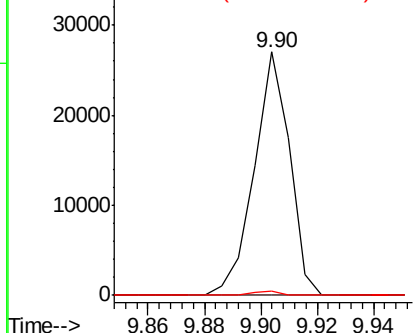
#51  
 2,6-Dinitrotoluene  
 Concen: 9.044 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. 0.21 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.7  | 65.5# |
| 89      | 1.7   | 45.1  | 67.7# |



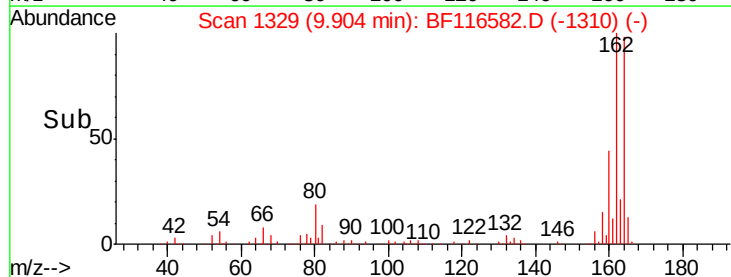
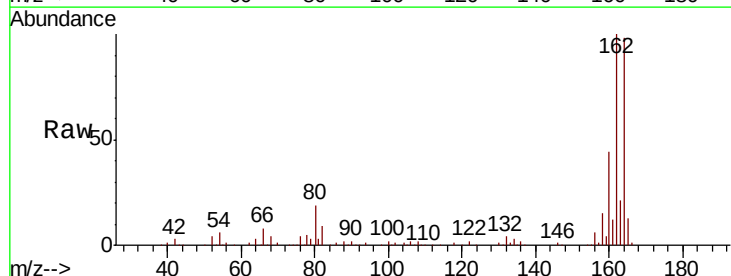
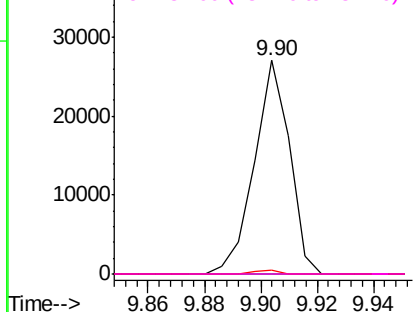
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1



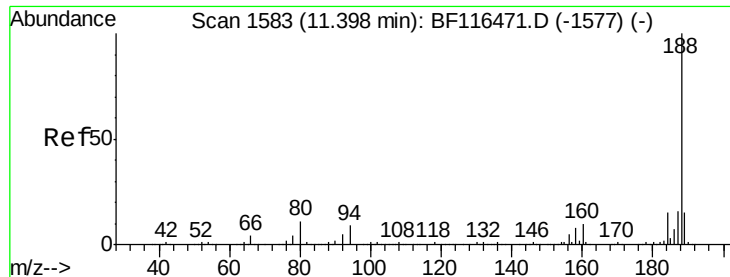
#57  
 2,4-Dinitrotoluene  
 Concen: 7.107 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. -0.19 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 36.9  | 55.3# |
| 89      | 1.7   | 63.4  | 95.0# |
| 182     | 0.0   | 2.1   | 3.1#  |

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



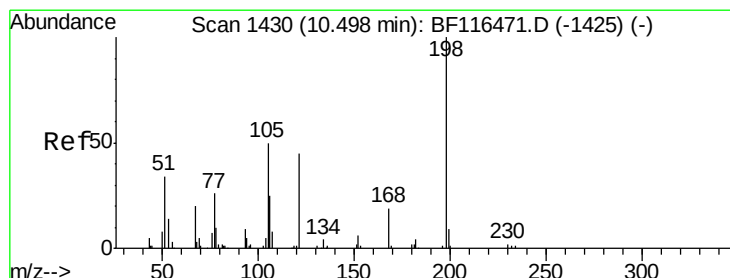
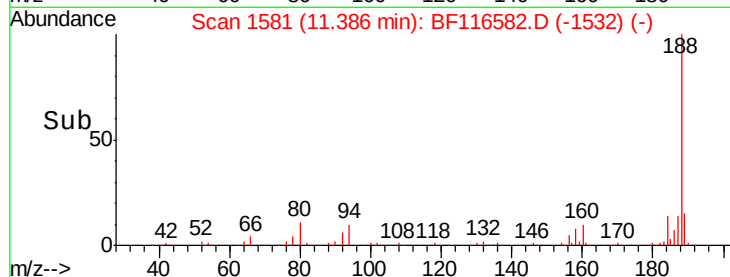
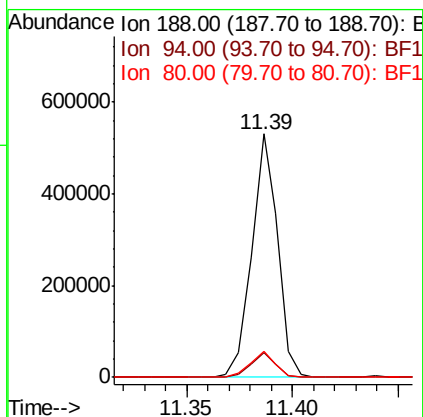
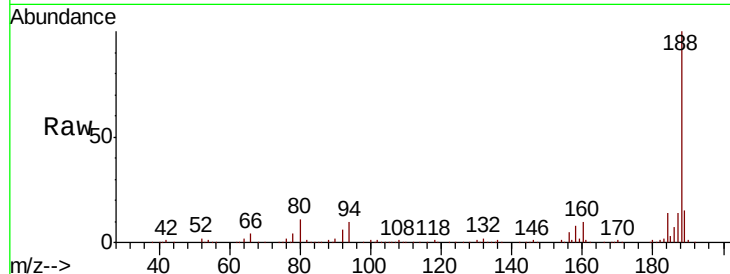




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

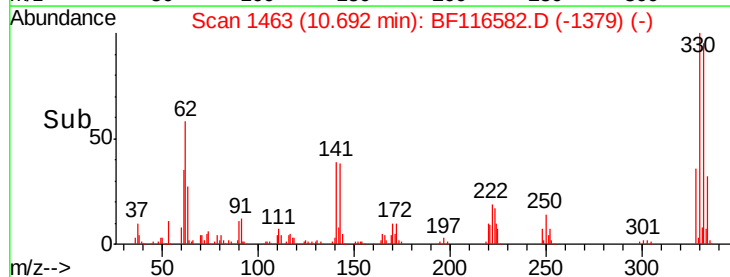
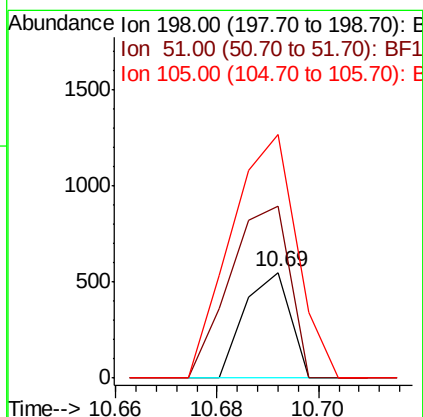
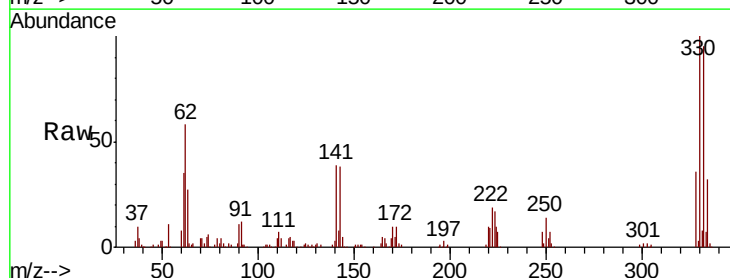
Instrument :  
 BNA\_F  
 ClientSampleId :

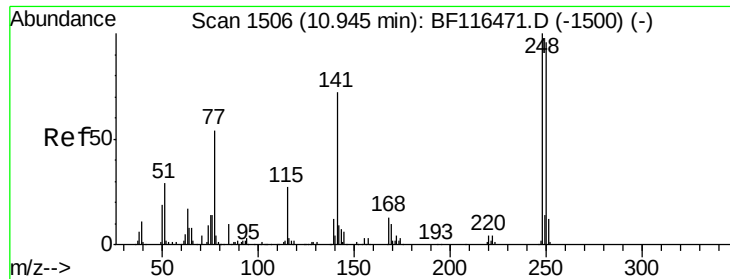
Tot Ion:188 Resp: 451604  
 Ion Ratio Lower Upper  
 188 100  
 94 10.0 7.4 11.2  
 80 10.7 8.6 12.8



#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.164 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. 0.19 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

Tgt Ion:198 Resp: 344  
 Ion Ratio Lower Upper  
 198 100  
 51 162.8 30.4 70.4#  
 105 229.8 32.8 72.8#

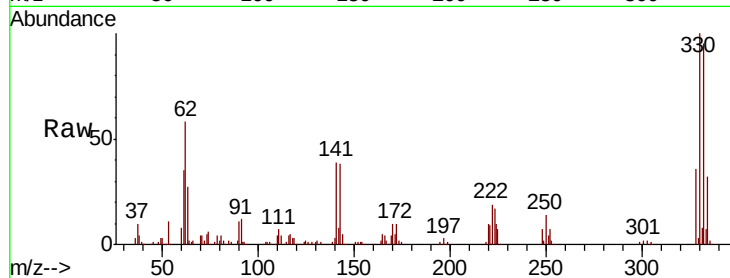




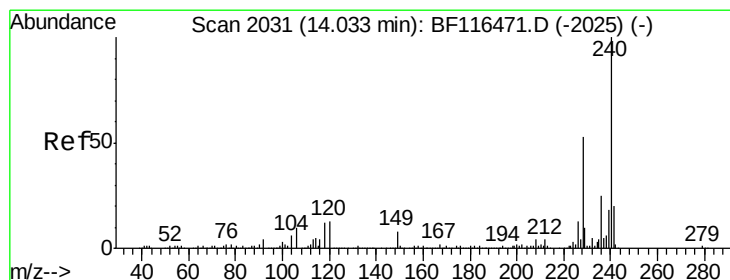
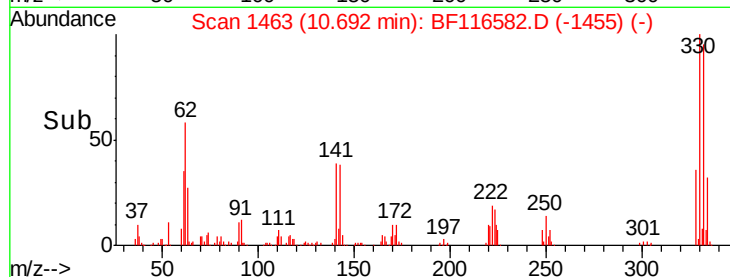
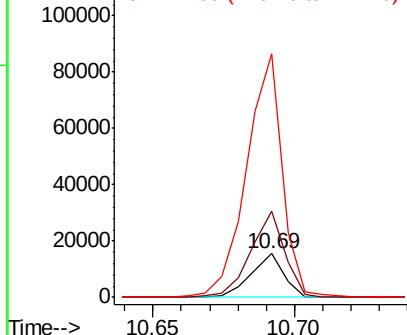
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.675 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.25 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 12667  
 Ion Ratio Lower Upper  
 248 100  
 250 195.9 77.0 115.6#  
 141 557.2 57.4 86.0#

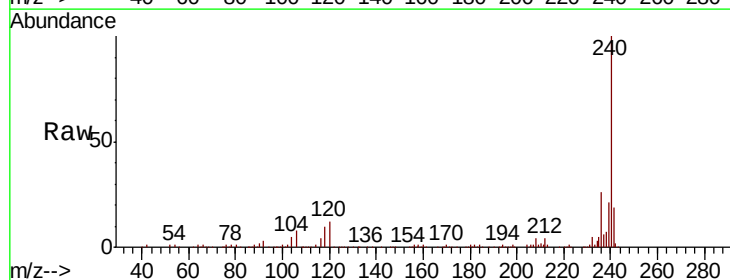


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

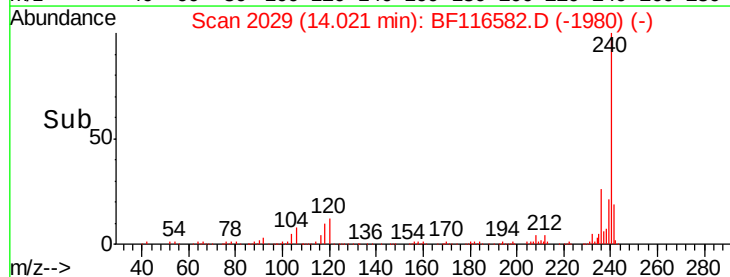
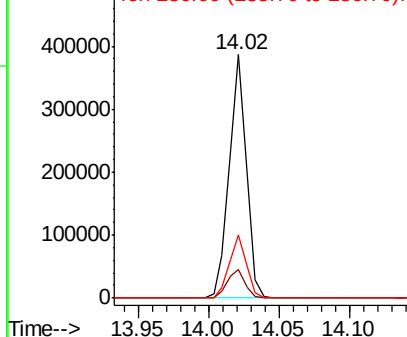


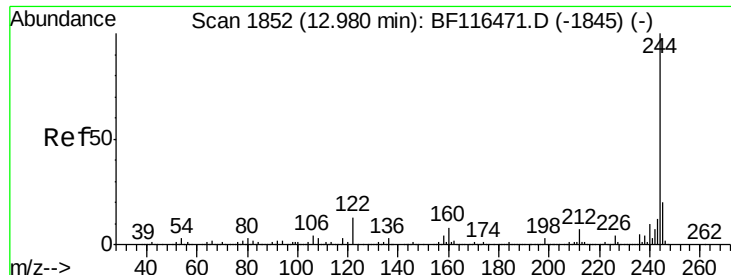
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF116582.D  
 Acq: 27 Aug 2019 13:51

Tgt Ion:240 Resp: 327942  
 Ion Ratio Lower Upper  
 240 100  
 120 11.6 10.5 15.7  
 236 26.0 20.2 30.2



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: 75.636 ng

RT: 12.97 min Scan# 1851

Delta R.T. -0.01 min

Lab File: BF116582.D

Acq: 27 Aug 2019 13:51

Instrument :

BNA\_F

ClientSampleId :

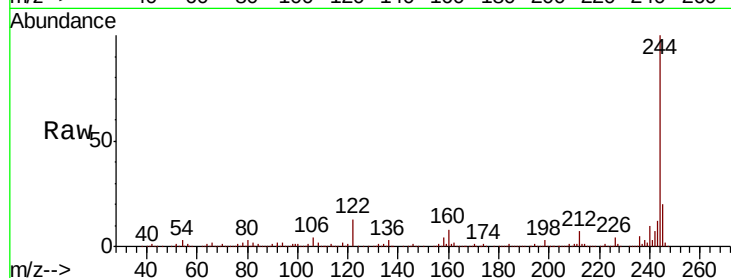
Tot Ion:244 Resp: 1327923

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

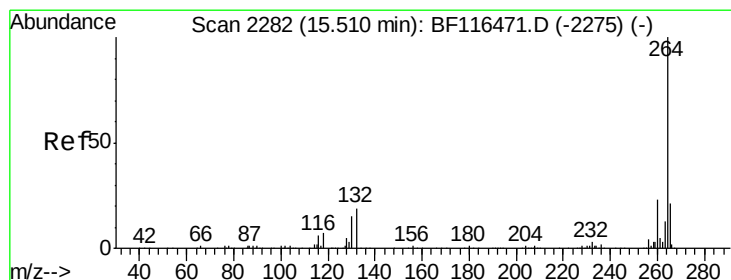
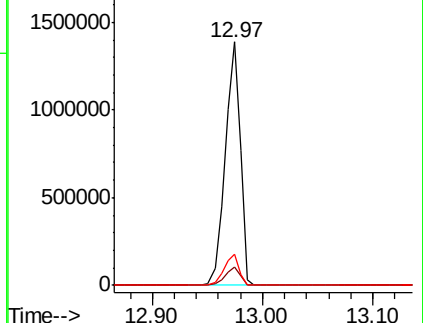
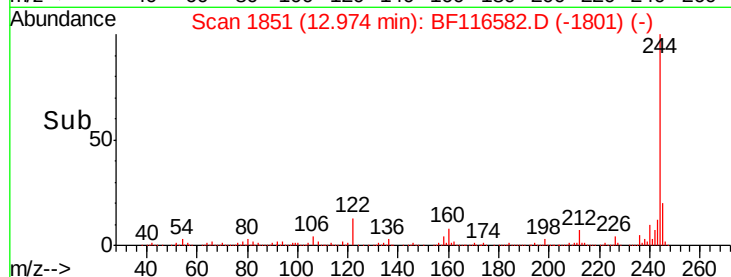
122 12.6 10.2 15.4



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2279

Delta R.T. -0.02 min

Lab File: BF116582.D

Acq: 27 Aug 2019 13:51

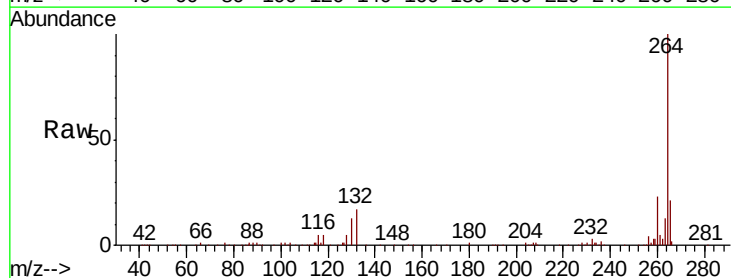
Tgt Ion:264 Resp: 284700

Ion Ratio Lower Upper

264 100

260 23.1 18.8 28.2

265 20.6 17.1 25.7



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

