

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081319\  
 Data File : BF116238.D  
 Acq On : 13 Aug 2019 19:00  
 Operator : HP/JU  
 Sample : K4230-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-D1-D4-(0-1)-COMP

Quant Time: Aug 13 23:19:41 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 2019  
 Response via : Initial Calibration

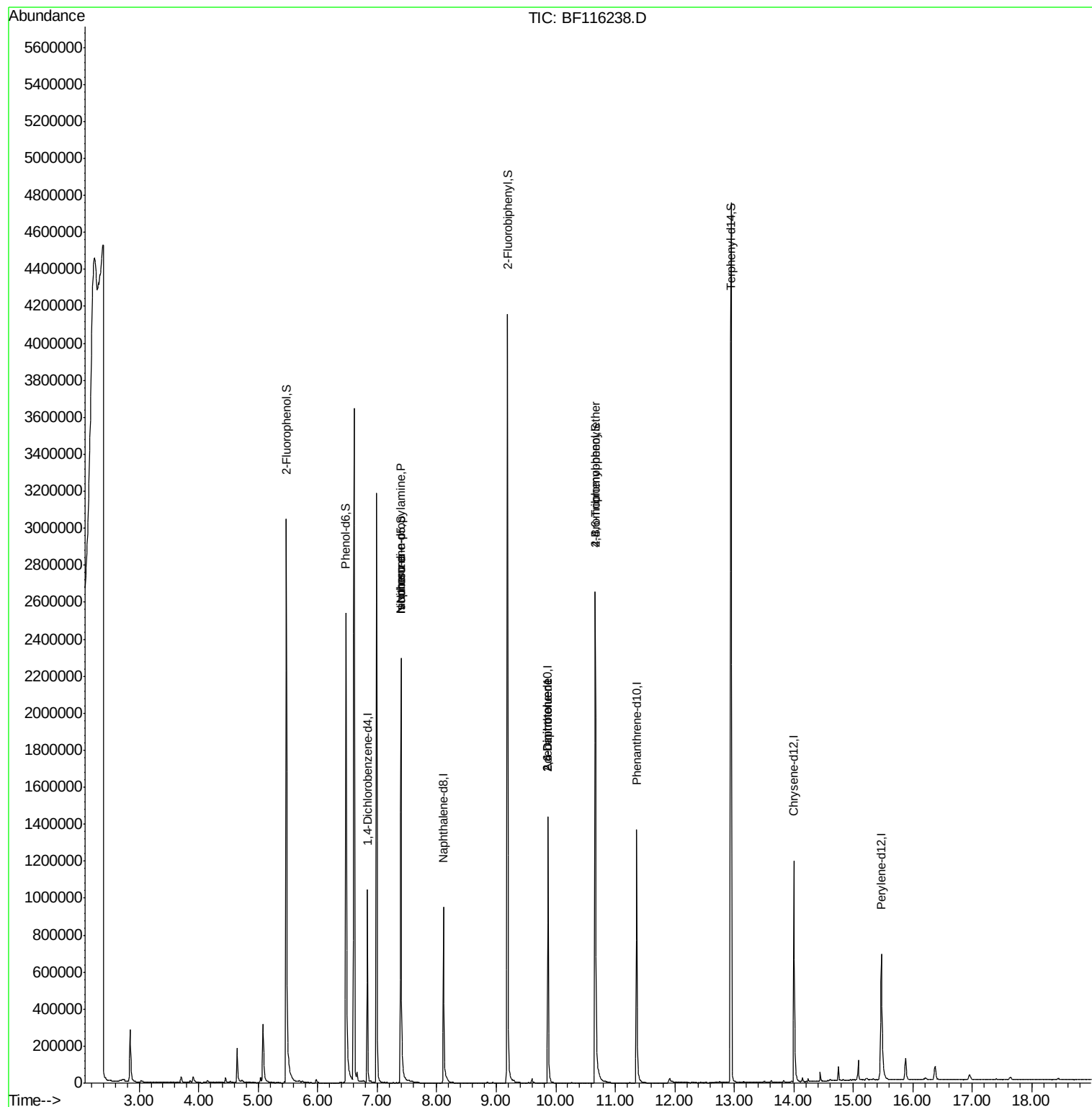
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 147349   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.12  | 136  | 581527   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.87  | 164  | 318269   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 598968   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 14.00 | 240  | 490681   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.47 | 264  | 440289   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 1024818  | 116.43 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.48  | 99   | 1242862  | 111.92 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 972394   | 96.52  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 450942   | 146.14 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 1551340  | 91.30  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.94 | 244  | 2011624  | 86.39  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 129459   | 18.812 | ng    | # 80     |
| 25) Isophorone                 | 7.40  | 82   | 974229   | 50.573 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 40168    | 8.529  | ng    | # 28     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 40168    | 6.406  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 27018    | 4.214  | ng    | # 1      |

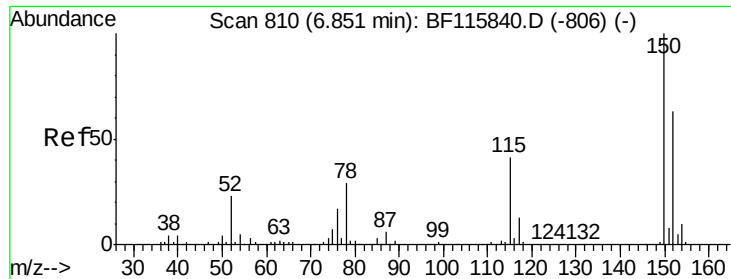
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081319\  
Data File : BF116238.D  
Acq On : 13 Aug 2019 19:00  
Operator : HP/JU  
Sample : K4230-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2S-D1-D4-(0-1)-COMP

Quant Time: Aug 13 23:19:41 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 11:13:18 2019  
Response via : Initial Calibration

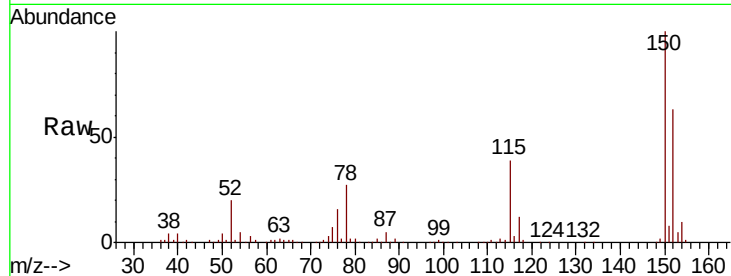




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.83 min Scan# 807  
 Delta R.T. -0.01 min  
 Lab File: BF116238.D  
 Acq: 13 Aug 2019 19:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-D1-D4-(0-1)-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.6 | 126.2 | 189.2 |
| 115     | 62.7  | 49.9  | 74.9  |

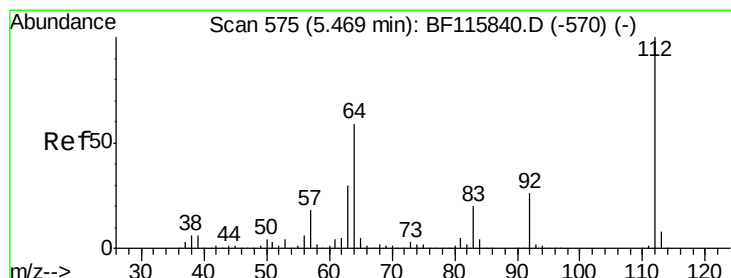
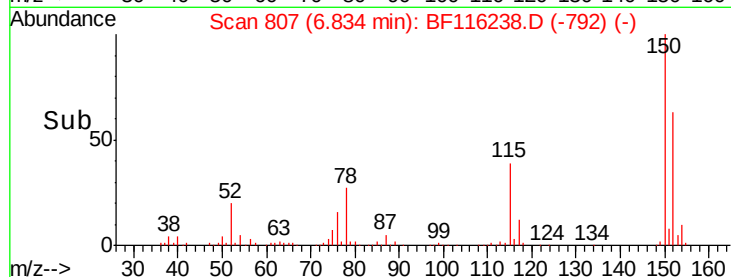
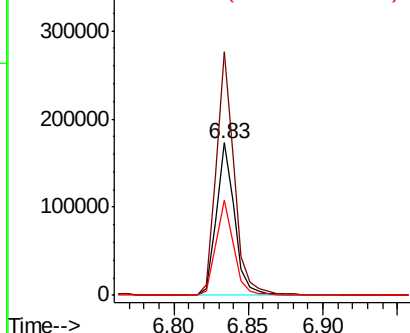


Abundance

Ion 152.00 (151.70 to 152.70): E

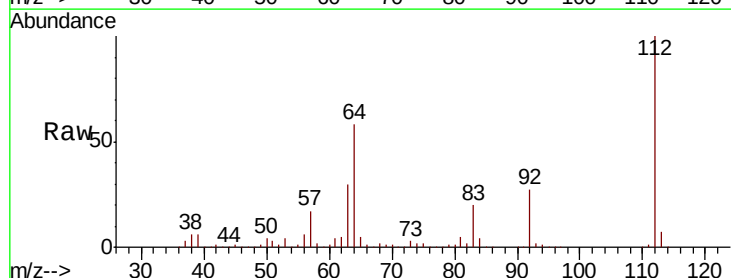
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5  
 2-Fluorophenol  
 Concen: 116.432 ng  
 RT: 5.47 min Scan# 576  
 Delta R.T. 0.01 min  
 Lab File: BF116238.D  
 Acq: 13 Aug 2019 19:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.8  | 45.4  | 68.2  |
| 63      | 30.2  | 23.7  | 35.5  |

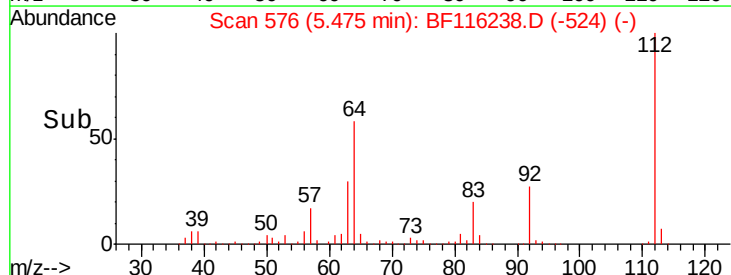
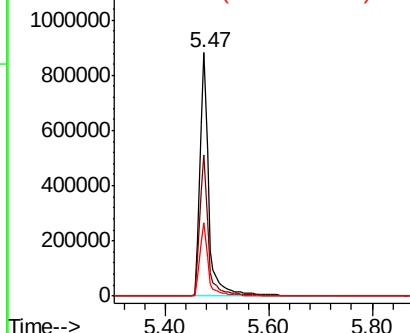


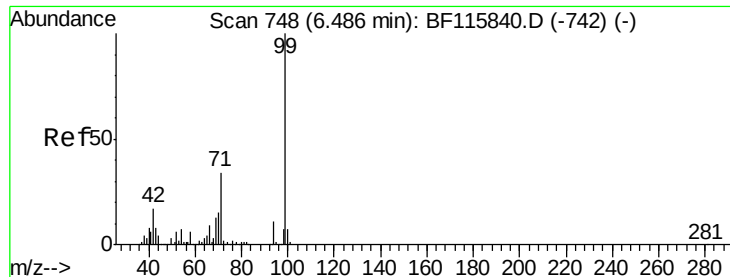
Abundance

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: 111.918 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF116238.D

Acq: 13 Aug 2019 19:00

Instrument :

BNA\_F

ClientSampleId :

2S-D1-D4-(0-1)-COMP

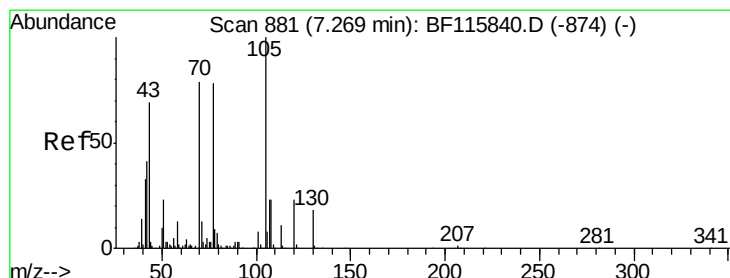
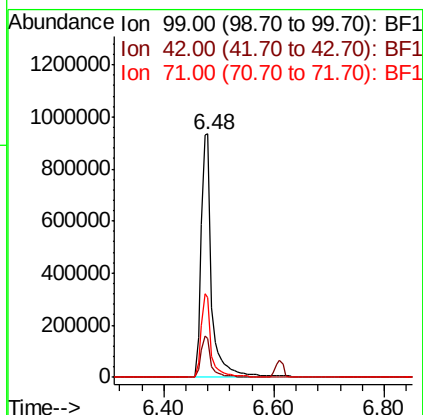
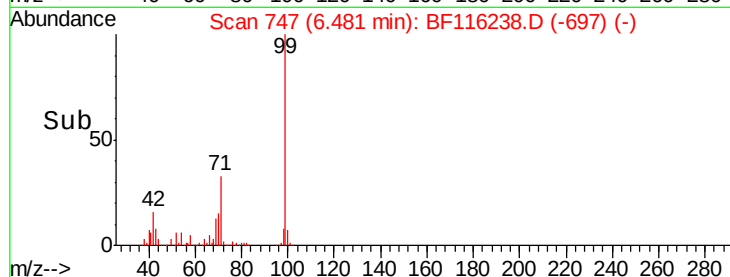
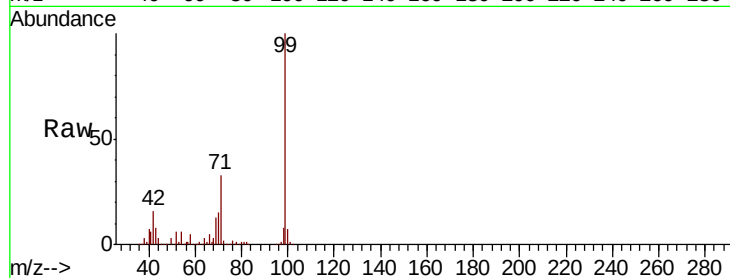
Tgt Ion: 99 Resp: 1242862

Ion Ratio Lower Upper

99 100

42 15.8 13.8 20.8

71 33.0 27.3 40.9



#19

n-Nitroso-di-n-propylamine

Concen: 18.812 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.13 min

Lab File: BF116238.D

Acq: 13 Aug 2019 19:00

Tgt Ion: 70 Resp: 129459

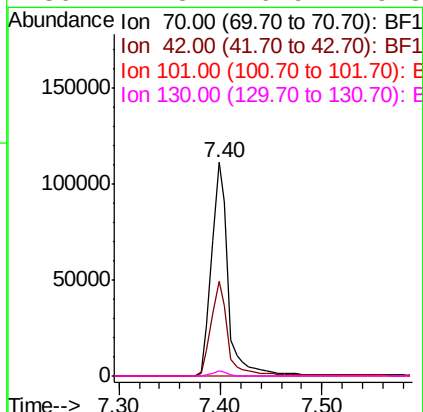
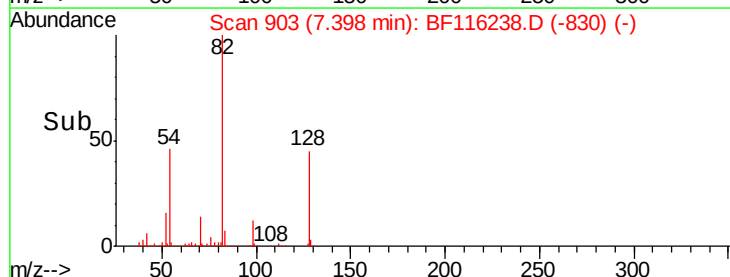
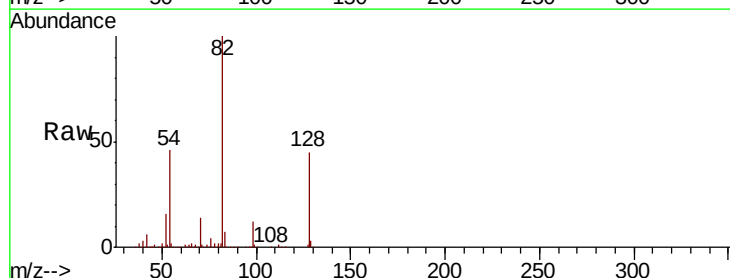
Ion Ratio Lower Upper

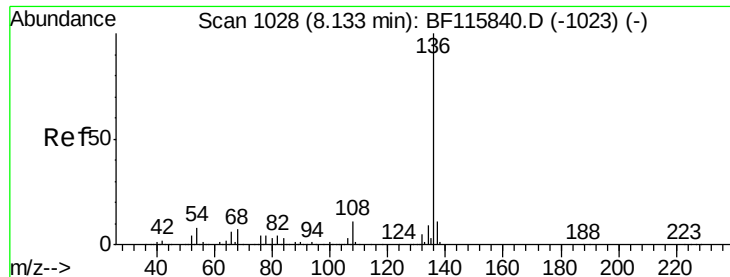
70 100

42 44.3 40.9 61.3

101 0.0 7.9 11.9#

130 2.3 16.9 25.3#

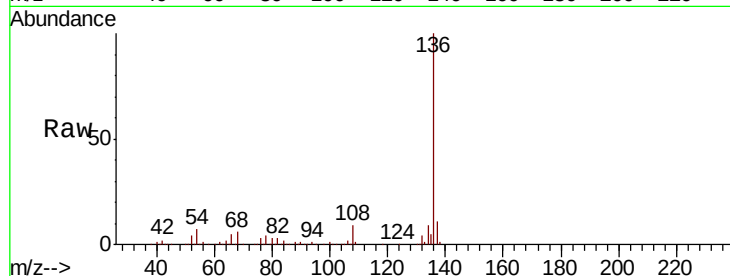




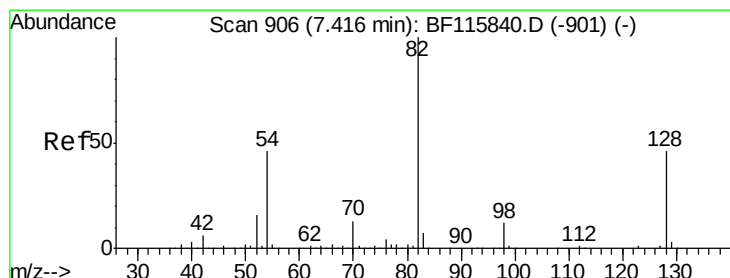
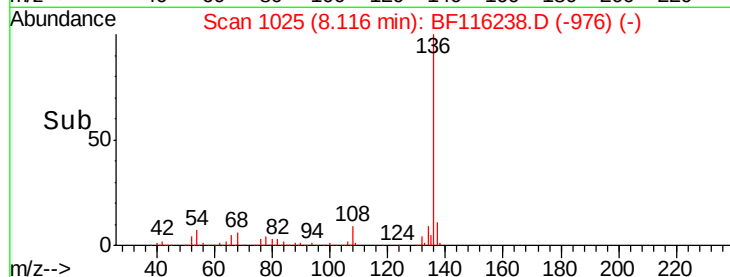
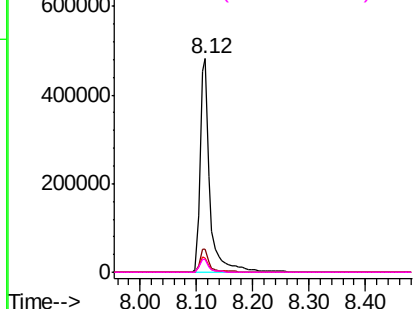
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF116238.D  
Acq: 13 Aug 2019 19:00

Instrument :  
BNA\_F  
ClientSampleId :  
2S-D1-D4-(0-1)-COMP

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 581527 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 9.0   | 13.4   |
| 54       | 6.8   | 5.8   | 8.6    |
| 68       | 6.0   | 5.2   | 7.8    |

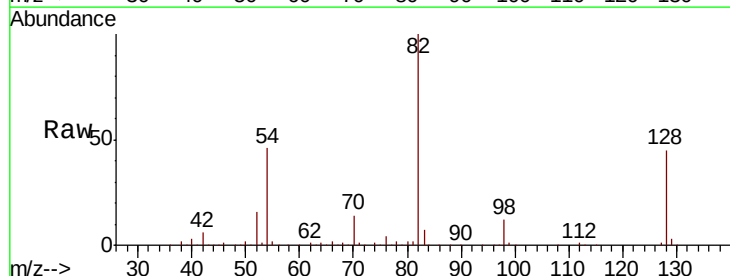


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

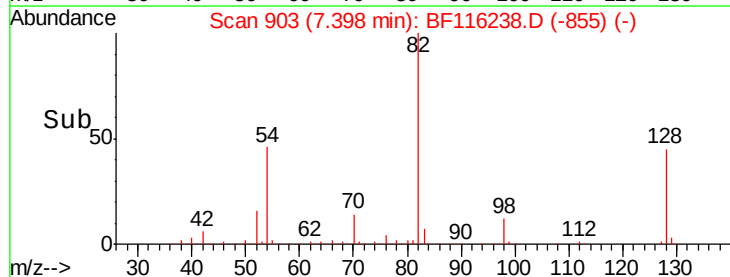
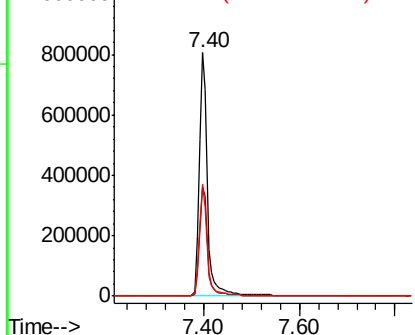


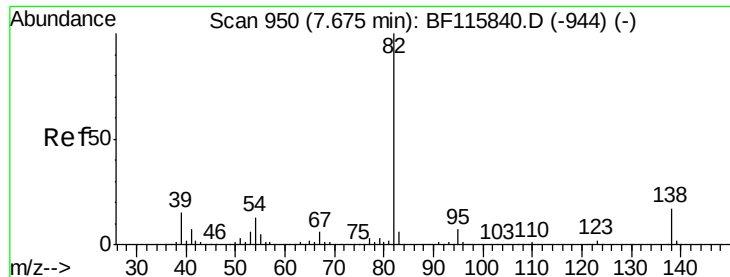
#23  
Nitrobenzene-d5  
Concen: 96.521 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.02 min  
Lab File: BF116238.D  
Acq: 13 Aug 2019 19:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 972394 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.8  | 36.5  | 54.7   |
| 54       | 45.8  | 36.0  | 54.0   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

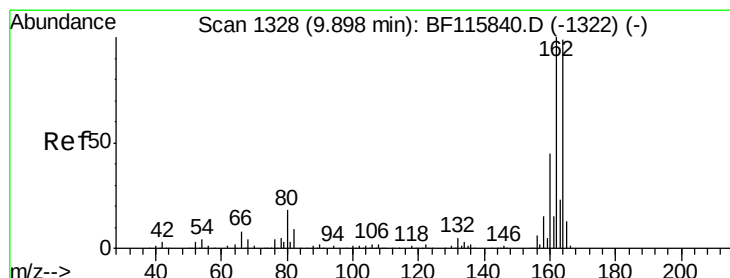
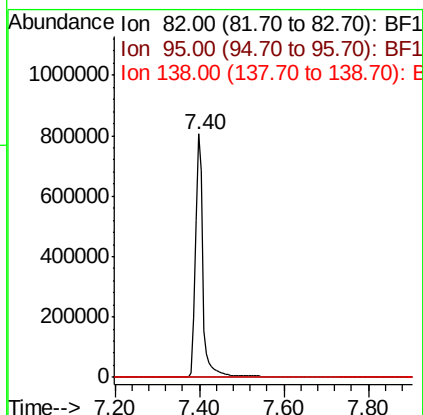
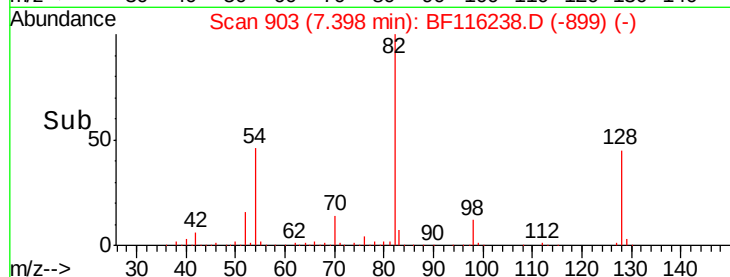
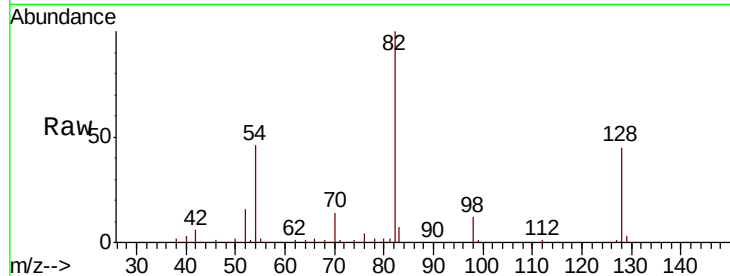




#25  
Isophorone  
Concen: 50.573 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.28 min  
Lab File: BF116238.D  
Acq: 13 Aug 2019 19:00

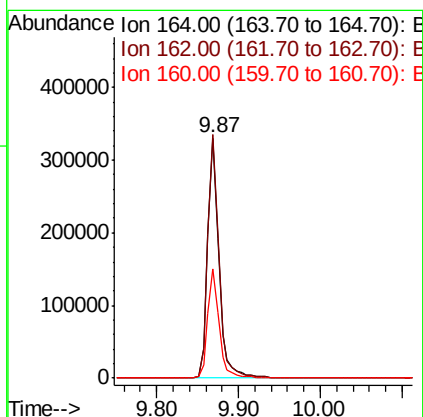
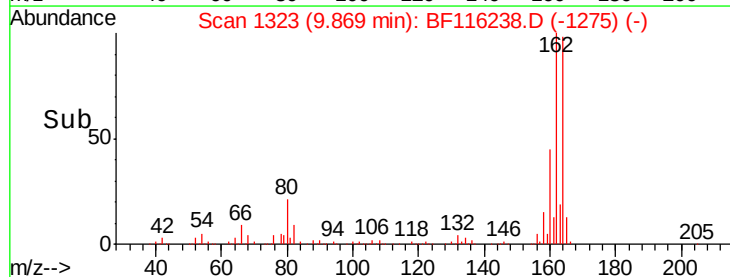
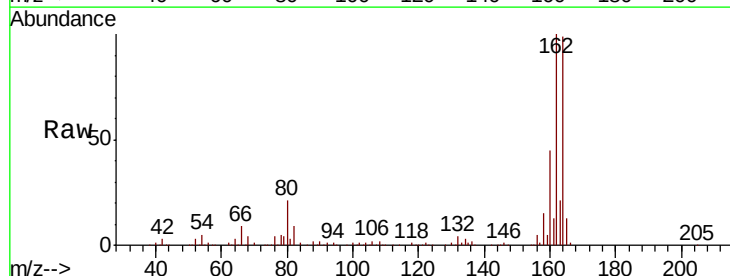
Instrument :  
BNA\_F  
ClientSampleId :  
2S-D1-D4-(0-1)-COMP

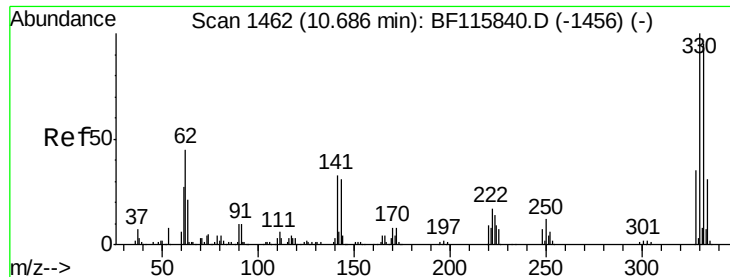
Tgt Ion: 82 Resp: 974229  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.0#  
138 0.0 14.5 21.7#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.87 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BF116238.D  
Acq: 13 Aug 2019 19:00

Tgt Ion: 164 Resp: 318269  
Ion Ratio Lower Upper  
164 100  
162 101.4 82.6 124.0  
160 45.6 37.6 56.4

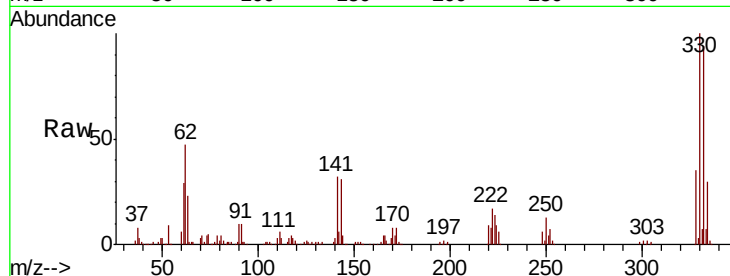




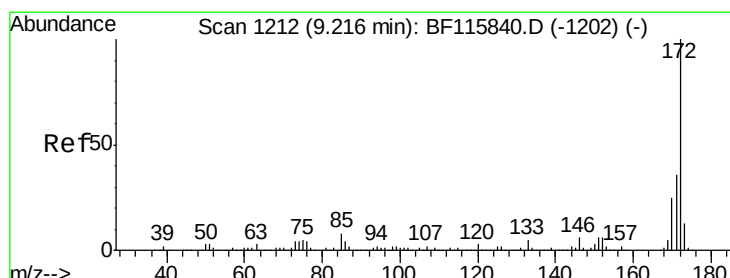
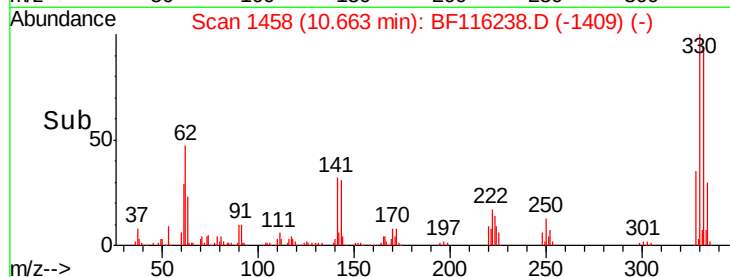
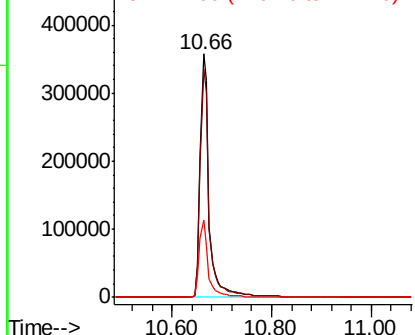
#42  
 2,4,6-Tribromophenol  
 Concen: 146.139 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.01 min  
 Lab File: BF116238.D  
 Acq: 13 Aug 2019 19:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-D1-D4-(0-1)-COMP

Tgt Ion:330 Resp: 450942  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 76.8 115.2  
 141 32.2 26.3 39.5

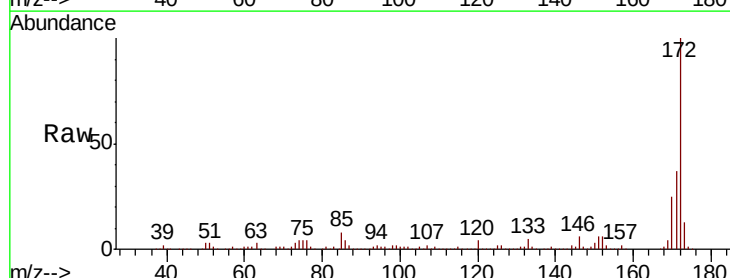


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

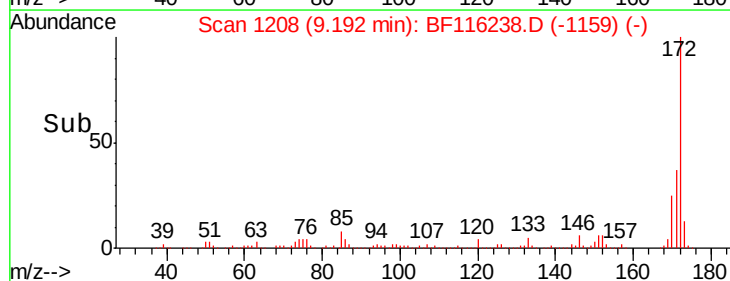
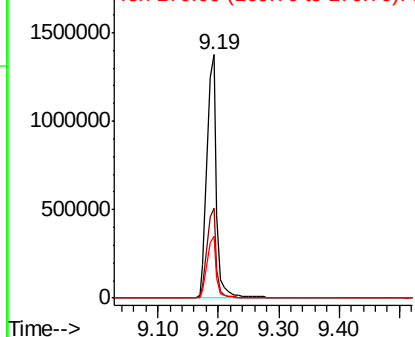


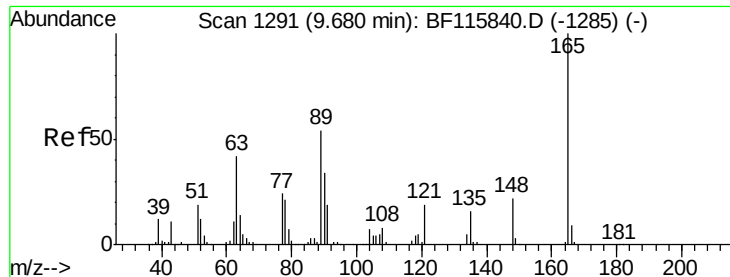
#45  
 2-Fluorobiphenyl  
 Concen: 91.299 ng  
 RT: 9.19 min Scan# 1208  
 Delta R.T. -0.01 min  
 Lab File: BF116238.D  
 Acq: 13 Aug 2019 19:00

Tgt Ion:172 Resp: 1551340  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.6 44.4  
 170 25.3 20.1 30.1



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: 8.529 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.19 min

Lab File: BF116238.D

Acq: 13 Aug 2019 19:00

Instrument :

BNA\_F

ClientSampleId :

2S-D1-D4-(0-1)-COMP

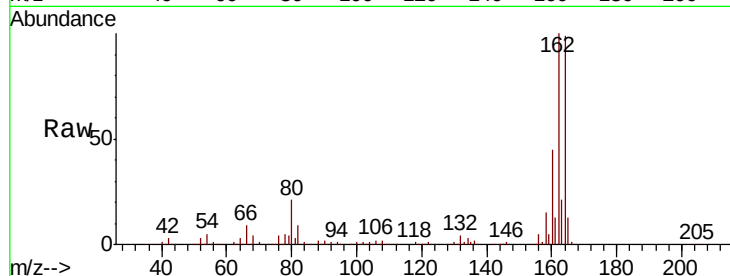
Tgt Ion:165 Resp: 40168

Ion Ratio Lower Upper

165 100

63 0.9 38.2 57.2#

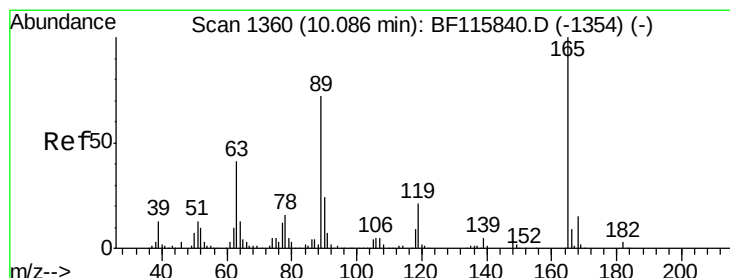
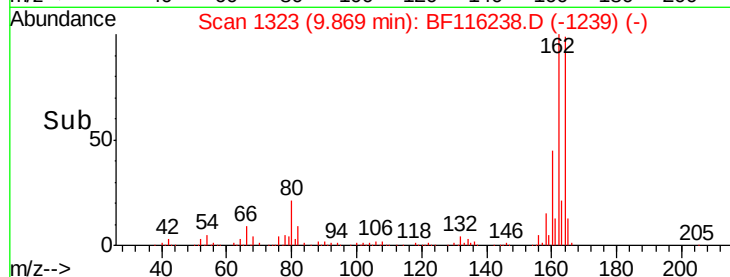
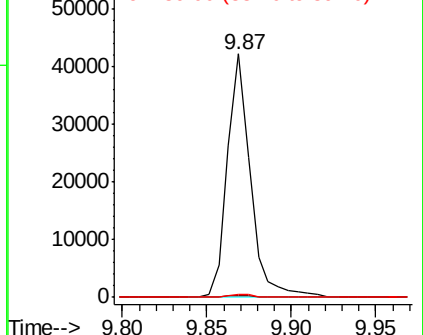
89 1.3 42.9 64.3#



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: 6.406 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.21 min

Lab File: BF116238.D

Acq: 13 Aug 2019 19:00

Tgt Ion:165 Resp: 40168

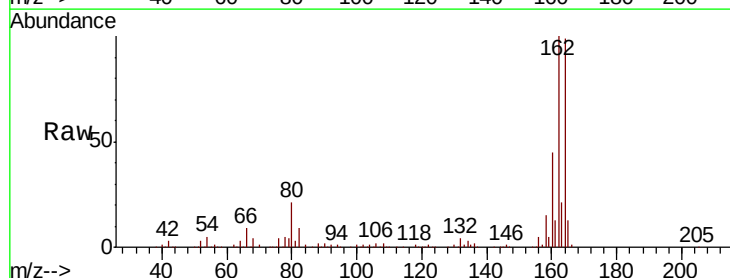
Ion Ratio Lower Upper

165 100

63 0.9 39.6 59.4#

89 1.3 62.2 93.2#

182 0.0 2.1 3.1#

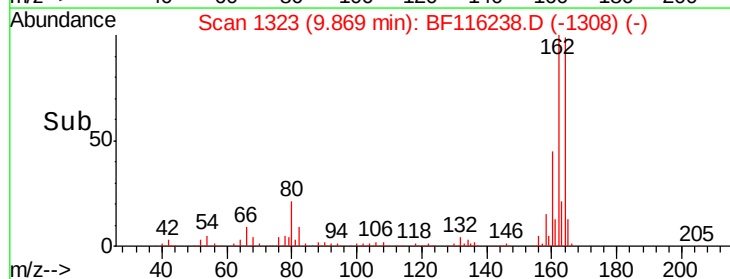
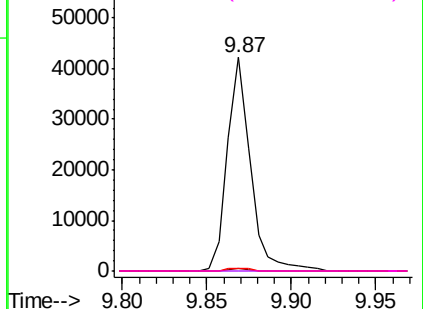


Abundance Ion 165.00 (164.70 to 165.70): E

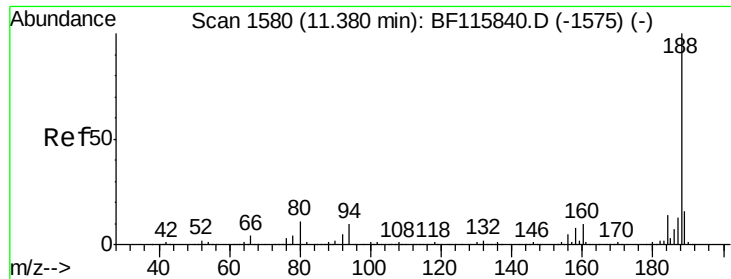
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



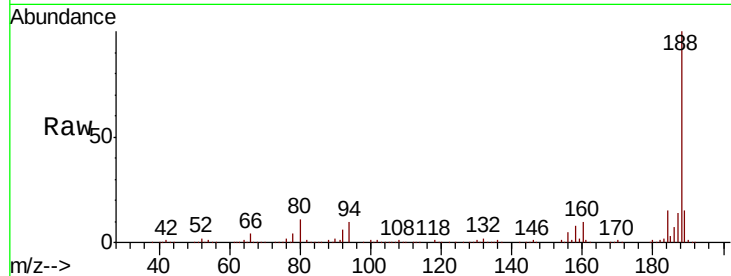




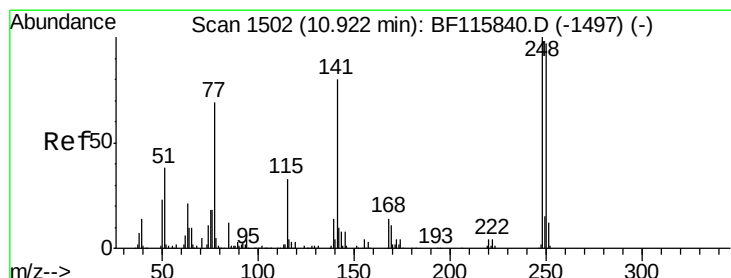
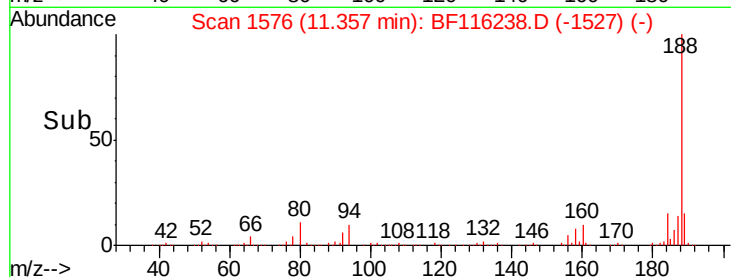
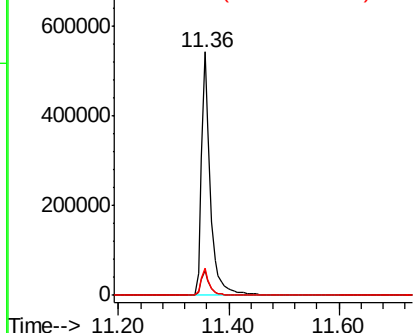
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.36 min Scan# 1576  
 Delta R.T. -0.01 min  
 Lab File: BF116238.D  
 Acq: 13 Aug 2019 19:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2S-D1-D4-(0-1)-COMP

Tgt Ion:188 Resp: 598968  
 Ion Ratio Lower Upper  
 188 100  
 94 10.1 8.1 12.1  
 80 11.1 8.7 13.1

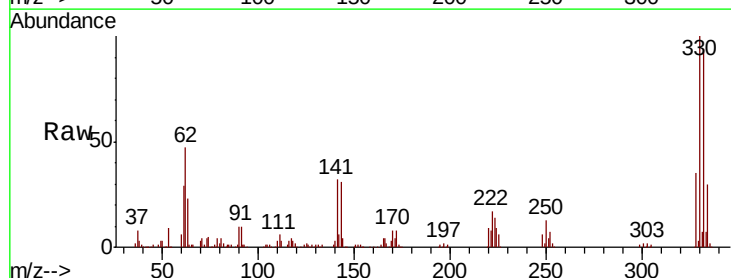


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

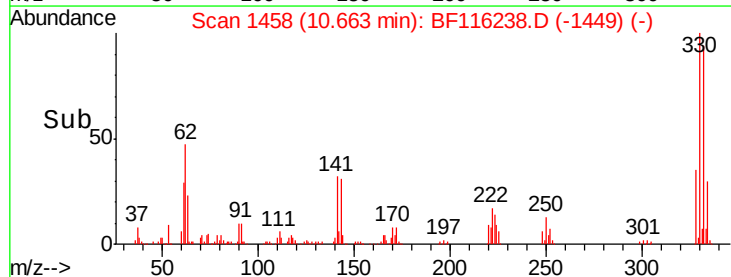
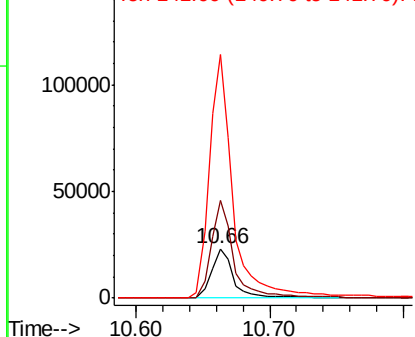


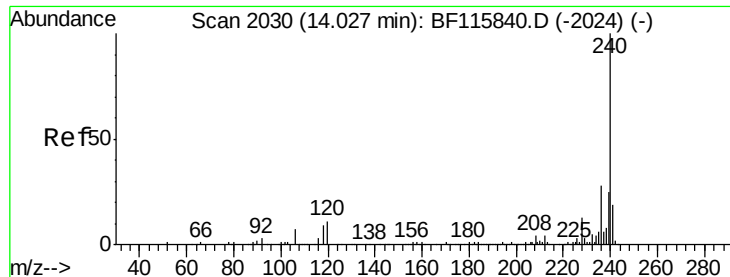
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.214 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.25 min  
 Lab File: BF116238.D  
 Acq: 13 Aug 2019 19:00

Tgt Ion:248 Resp: 27018  
 Ion Ratio Lower Upper  
 248 100  
 250 198.3 77.4 116.2#  
 141 494.9 56.8 85.2#



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: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF116238.D

Acq: 13 Aug 2019 19:00

Instrument :

BNA\_F

ClientSampleId :

2S-D1-D4-(0-1)-COMP

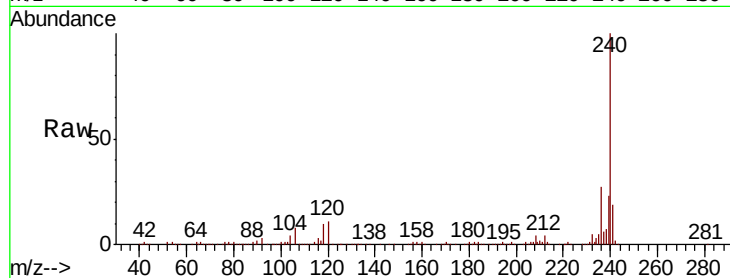
Tgt Ion:240 Resp: 490681

Ion Ratio Lower Upper

240 100

120 10.8 10.7 16.1

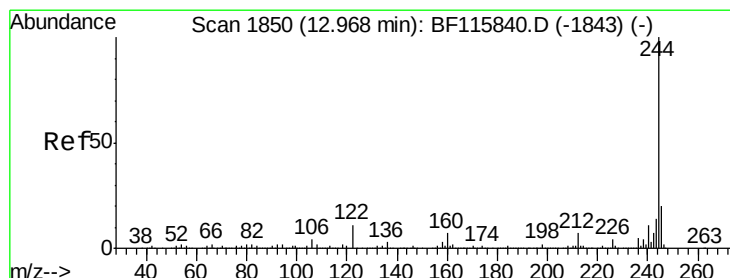
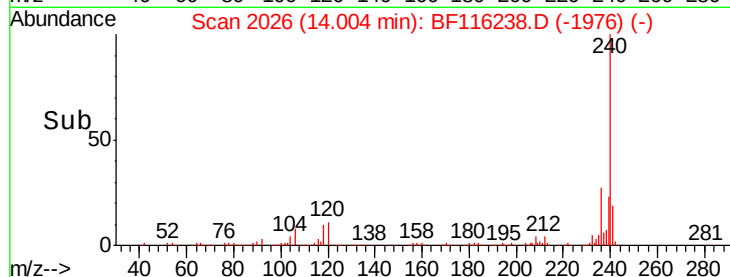
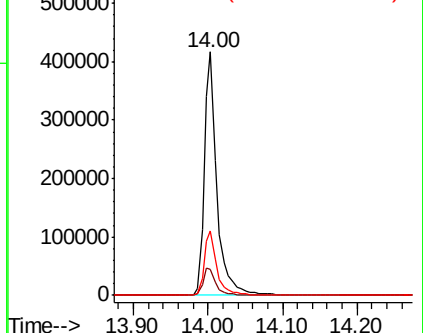
236 26.6 22.2 33.2



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: 86.387 ng

RT: 12.94 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF116238.D

Acq: 13 Aug 2019 19:00

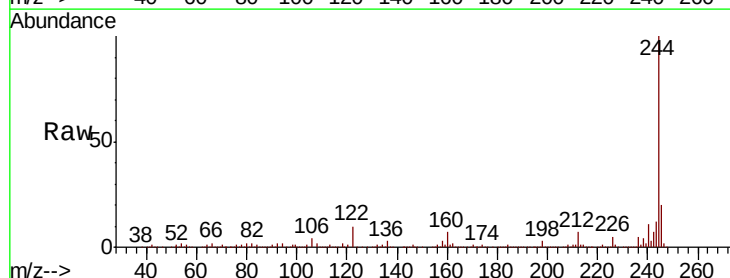
Tgt Ion:244 Resp: 2011624

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

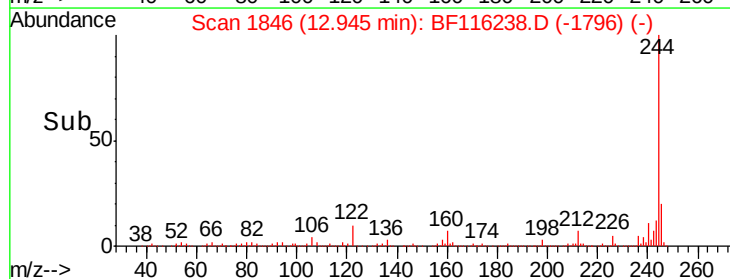
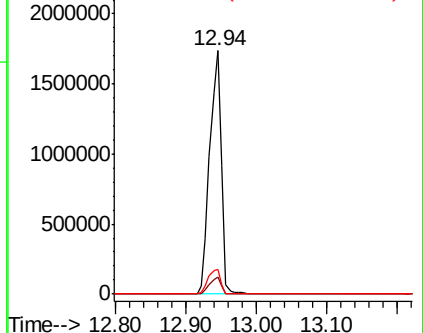
122 10.3 9.0 13.4

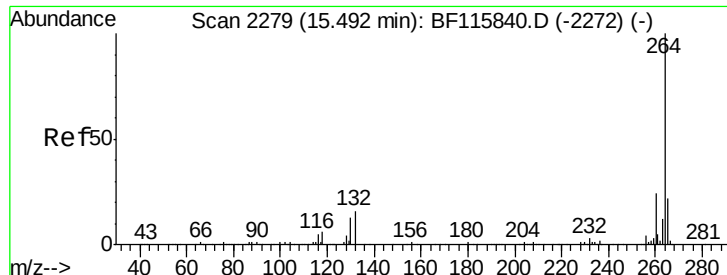


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.47 min Scan# 2275  
Delta R.T. -0.01 min  
Lab File: BF116238.D  
Acq: 13 Aug 2019 19:00

Instrument :  
BNA\_F  
ClientSampleId :  
2S-D1-D4-(0-1)-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.7  | 29.5  |
| 265     | 21.3  | 17.4  | 26.0  |

