

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122118\  
 Data File : BF111682.D  
 Acq On : 21 Dec 2018 12:48  
 Operator : JU/SJ  
 Sample : J6353-06RE  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 21 13:43:43 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 19 17:39:39 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 201002   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 774431   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 393991   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 732186   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.05 | 240  | 506962   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.53 | 264  | 476334   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.52  | 112  | 855031   | 72.51 | ng    | 0.00     |
| 7) Phenol-d6                | 6.52  | 99   | 1118187  | 74.51 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 793534   | 59.64 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 303154   | 65.12 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 1076523  | 39.83 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.00 | 244  | 1100280  | 41.16 | ng    | 0.00     |

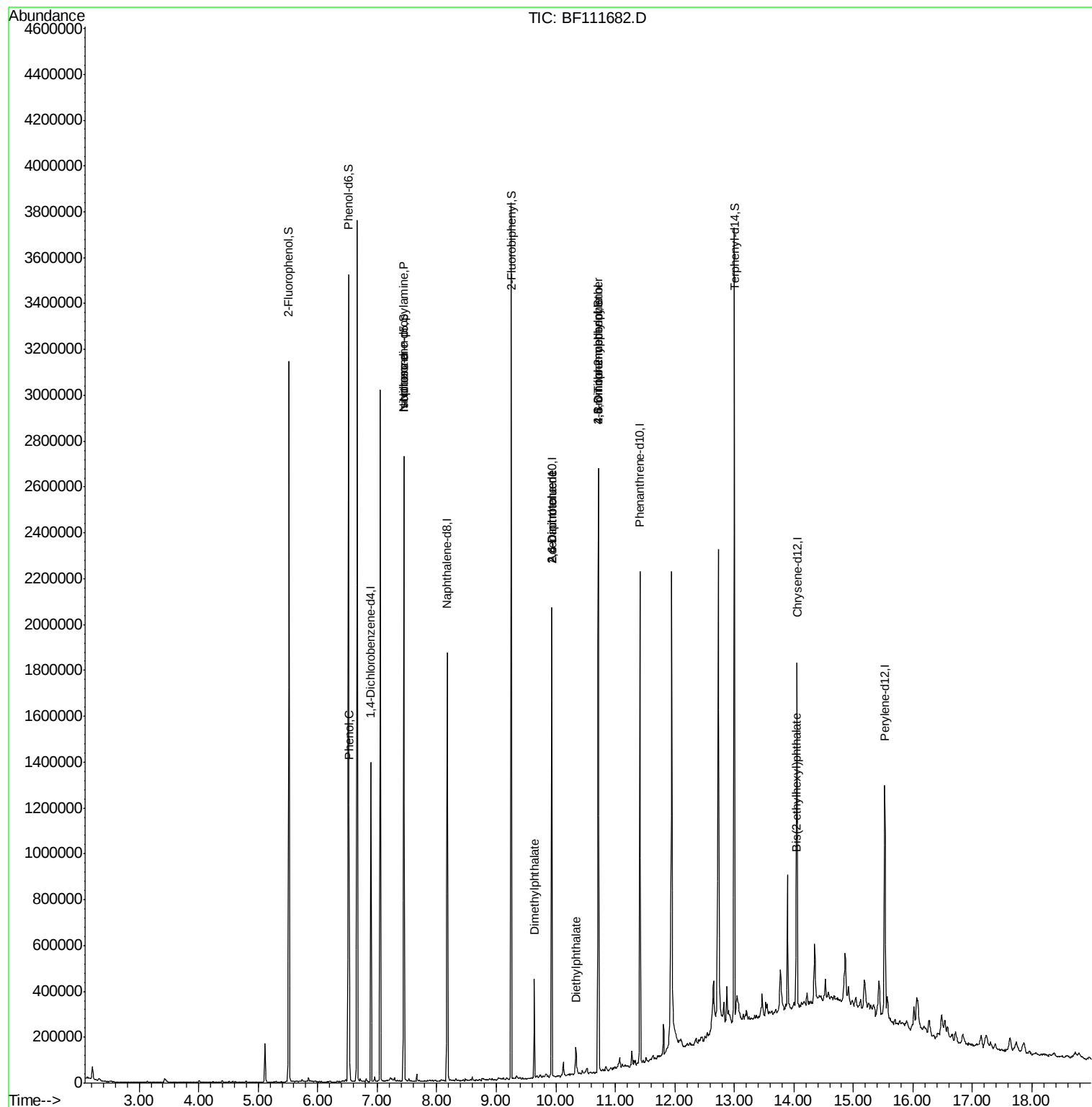
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.53  | 94   | 90695    | 5.356  | ng    | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 108782   | 10.915 | ng    | # 77   |
| 25) Isophorone                 | 7.45  | 82   | 793412   | 33.591 | ng    | # 64   |
| 50) Dimethylphthalate          | 9.64  | 163  | 146181   | 5.074  | ng    | 97     |
| 51) 2,6-Dinitrotoluene         | 9.93  | 165  | 50107    | 8.722  | ng    | # 29   |
| 57) 2,4-Dinitrotoluene         | 9.93  | 165  | 50107    | 7.257  | ng    | # 25   |
| 60) Diethylphthalate           | 10.33 | 149  | 59975    | 2.122  | ng    | 99     |
| 65) 4,6-Dinitro-2-methylphenol | 10.72 | 198  | 689      | 6.889  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.72 | 248  | 18475    | 2.034  | ng    | # 1    |
| 84) Bis(2-ethylhexyl)phthalate | 14.03 | 149  | 41669    | 2.267  | ng    | # 97   |

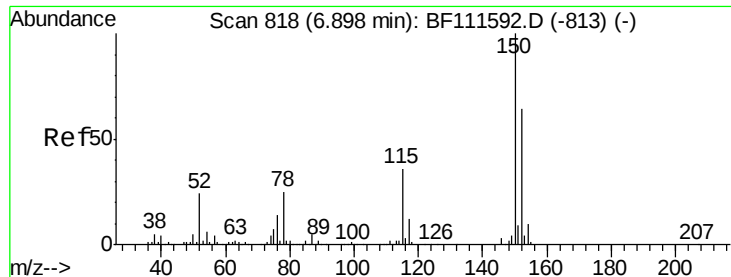
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J6353-06RE  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Dec 21 13:43:43 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 19 17:39:39 2018  
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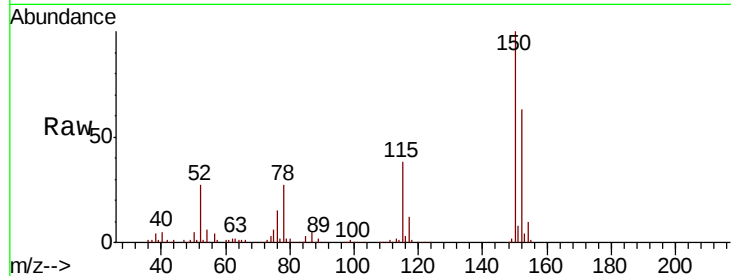


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.9 | 126.6 | 189.8 |
| 115     | 60.8  | 50.7  | 76.1  |

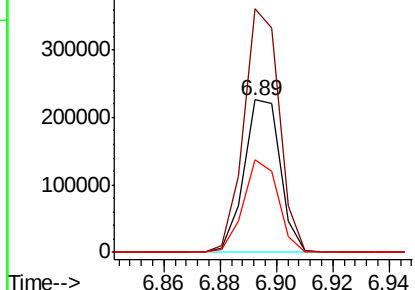
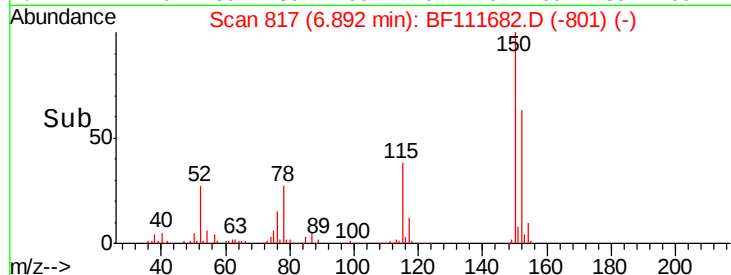


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

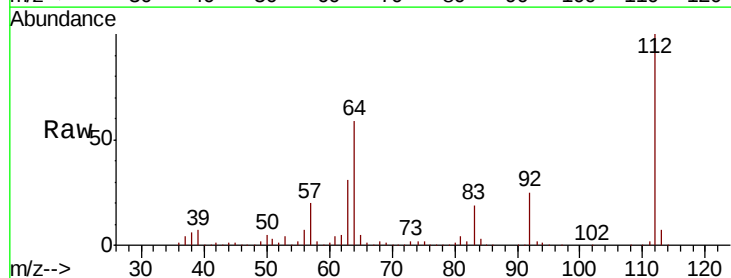
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 72.508 ng  
RT: 5.52 min Scan# 584  
Delta R.T. 0.01 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.5  | 51.8  | 77.6  |
| 63      | 31.1  | 26.8  | 40.2  |

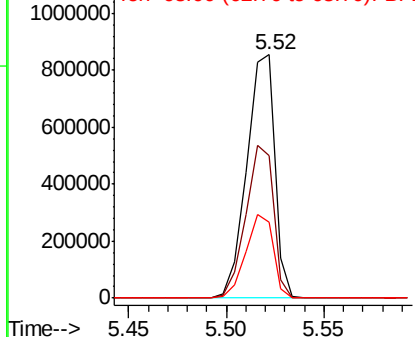
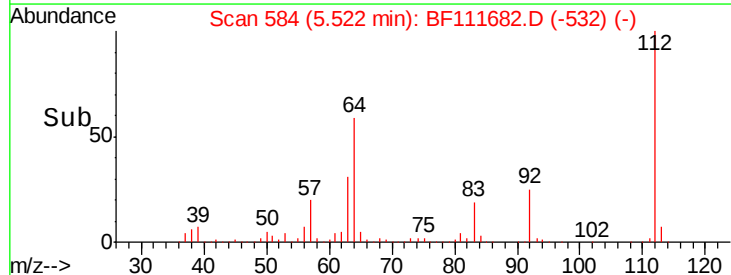


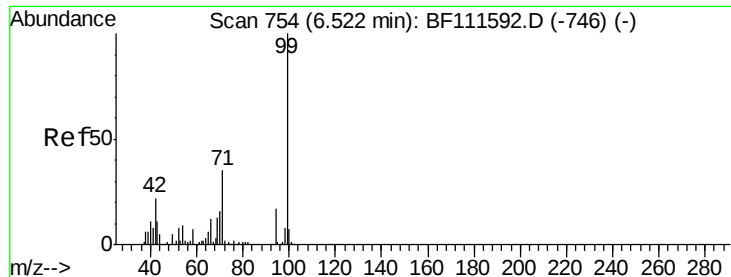
Abundance

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: 74.509 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF111682.D

Acq: 21 Dec 2018 12:48

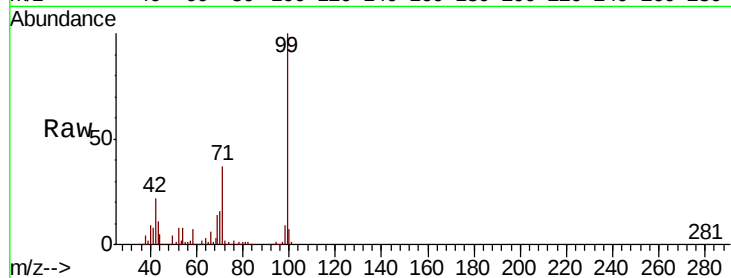
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1118187

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.9  | 17.4  | 26.0  |
| 71  | 36.6  | 26.1  | 39.1  |

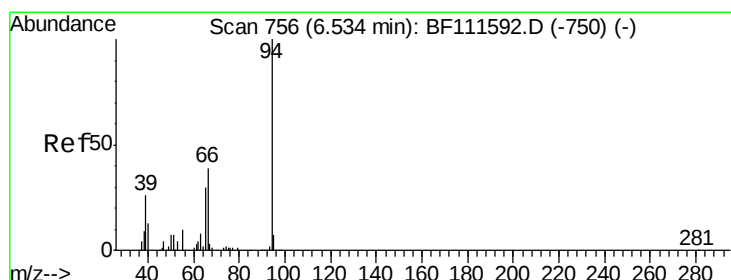
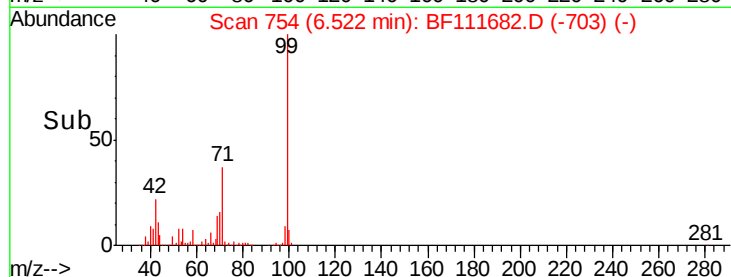
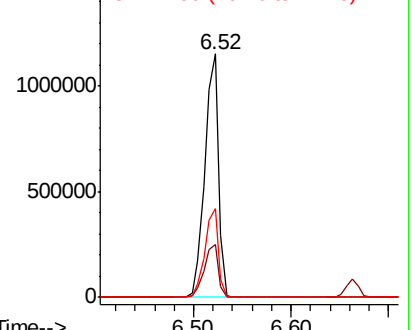


Abundance

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



#10

Phenol

Concen: 5.356 ng

RT: 6.53 min Scan# 756

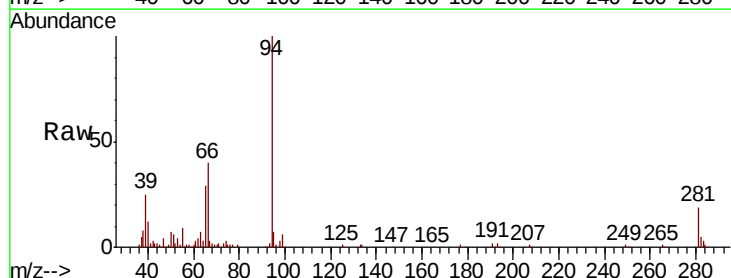
Delta R.T. -0.00 min

Lab File: BF111682.D

Acq: 21 Dec 2018 12:48

Tgt Ion: 94 Resp: 90695

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 28.6  | 11.7  | 51.7  |
| 66  | 39.6  | 21.0  | 61.0  |

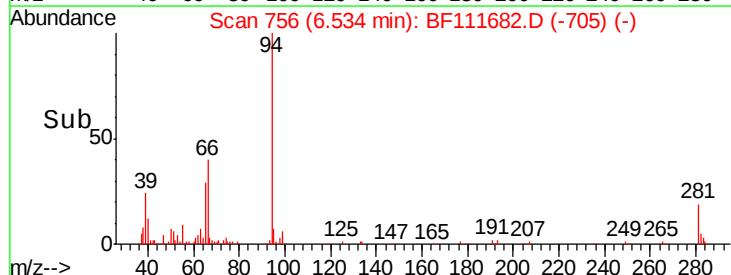
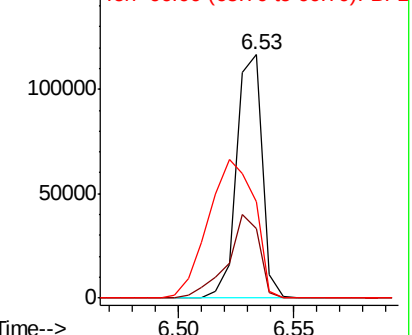


Abundance

Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

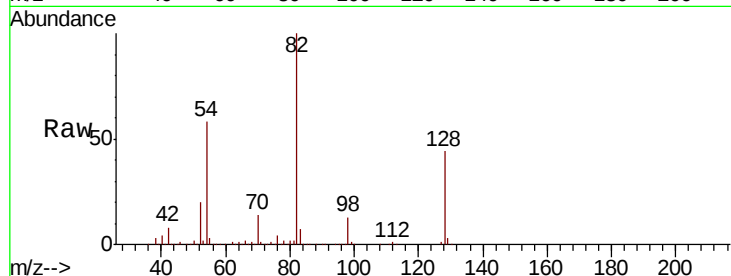




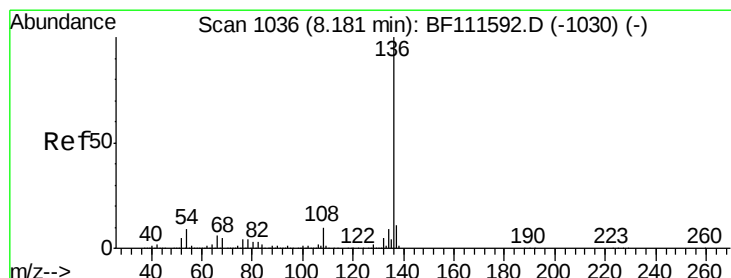
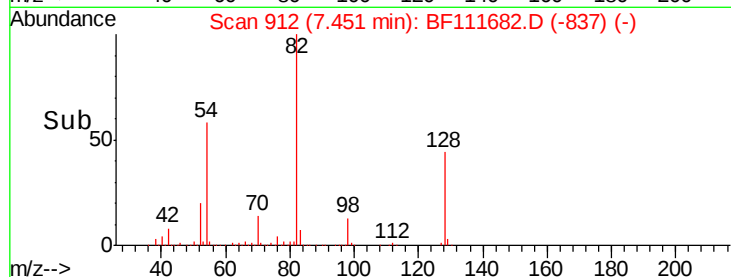
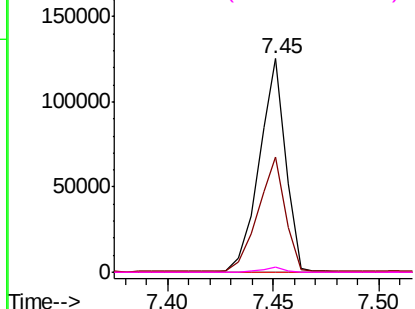
#19  
n-Nitroso-di-n-propylamine  
Concen: 10.915 ng  
RT: 7.45 min Scan# 912  
Delta R.T. 0.14 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 70 Resp: 108782  
Ion Ratio Lower Upper  
70 100  
42 54.2 53.2 79.8  
101 0.0 8.2 12.4#  
130 2.4 18.1 27.1#



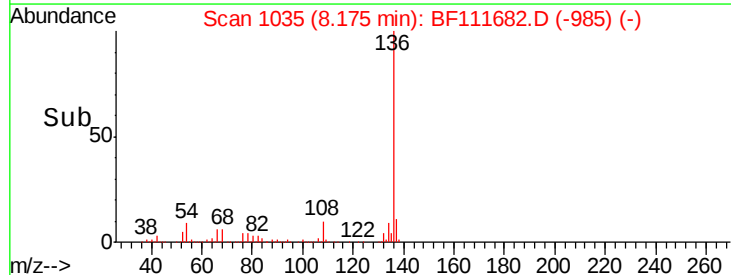
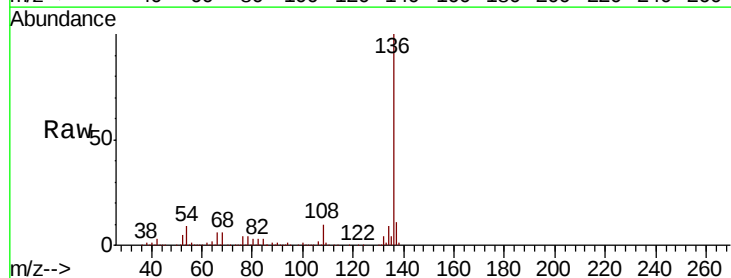
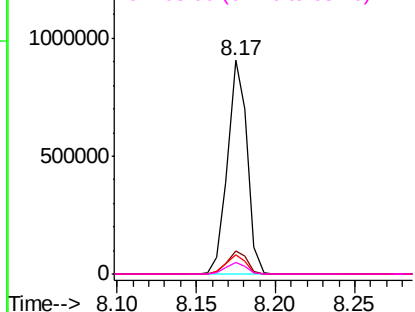
Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1035  
Delta R.T. -0.01 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Tgt Ion: 136 Resp: 774431  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.1 13.7  
54 9.3 7.7 11.5  
68 5.5 4.9 7.3

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

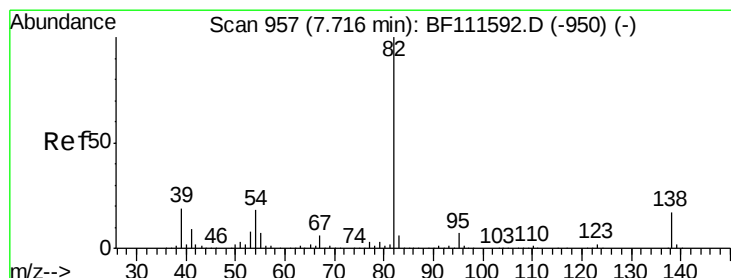
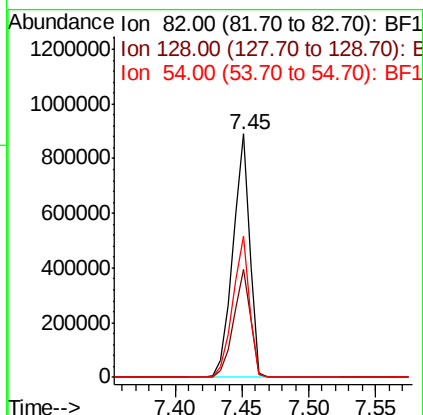
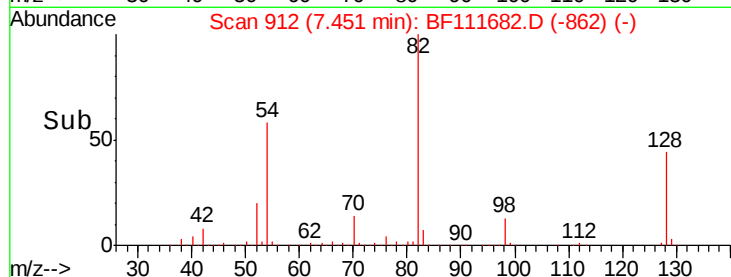
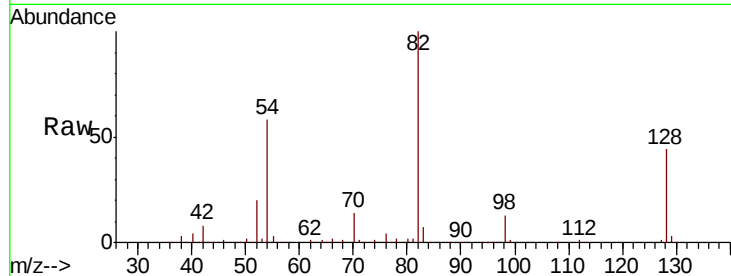




#23  
 Nitrobenzene-d5  
 Concen: 59.644 ng  
 RT: 7.45 min Scan# 912  
 Delta R.T. -0.01 min  
 Lab File: BF111682.D  
 Acq: 21 Dec 2018 12:48

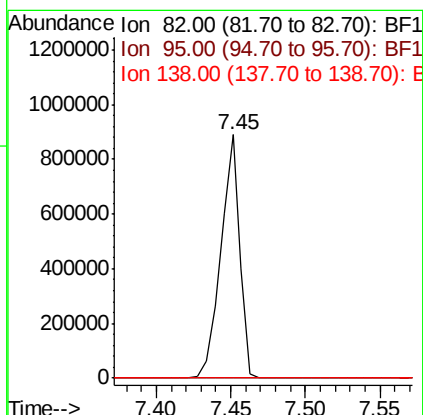
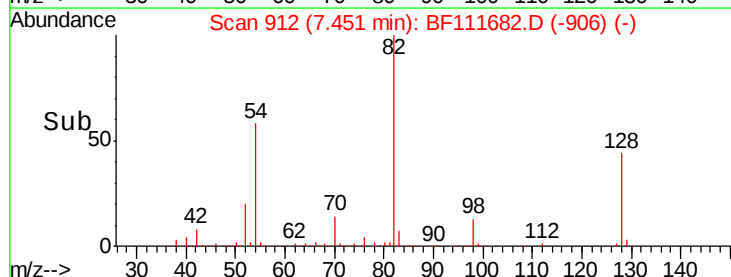
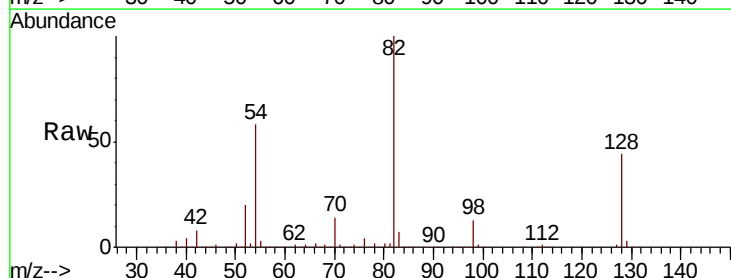
Instrument :  
 BNA\_F  
 ClientSampled :

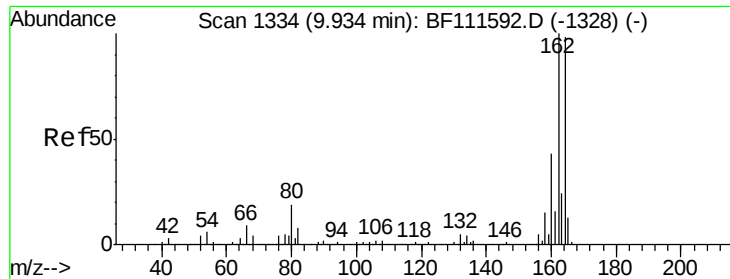
Tot Ion: 82 Resp: 793534  
 Ion Ratio Lower Upper  
 82 100  
 128 44.4 37.4 56.2  
 54 58.0 47.6 71.4



#25  
 Isophorone  
 Concen: 33.591 ng  
 RT: 7.45 min Scan# 912  
 Delta R.T. -0.26 min  
 Lab File: BF111682.D  
 Acq: 21 Dec 2018 12:48

Tgt Ion: 82 Resp: 793412  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.2#  
 138 0.0 15.1 22.7#

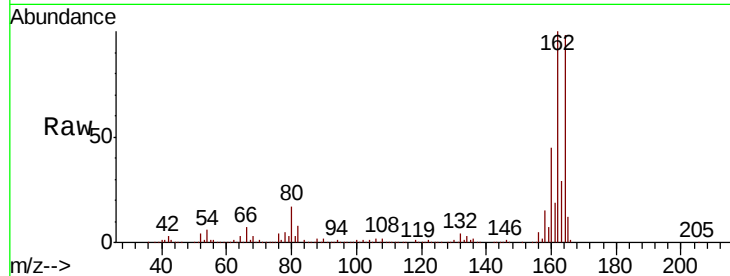




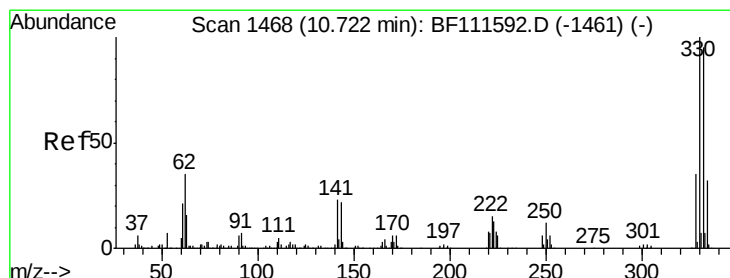
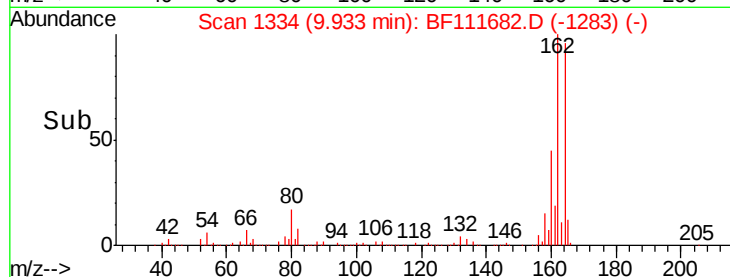
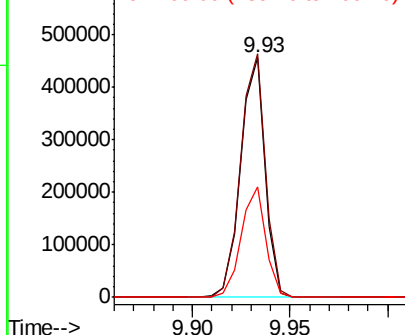
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.93 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.6 | 81.4  | 122.0 |
| 160     | 46.1  | 35.7  | 53.5  |

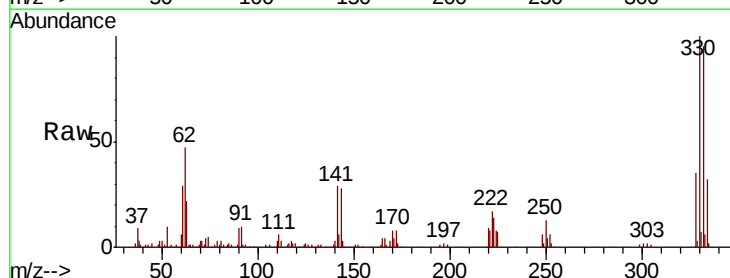


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

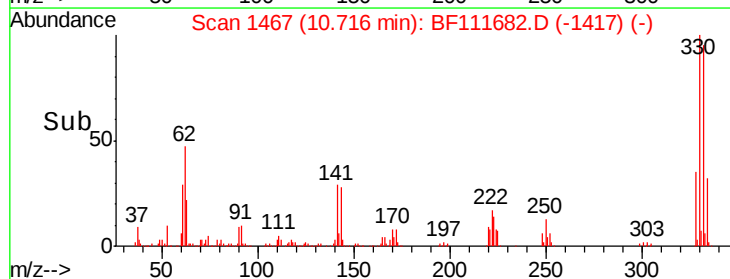
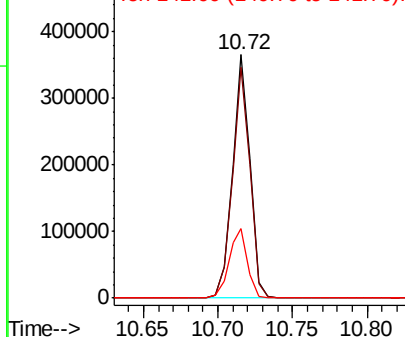


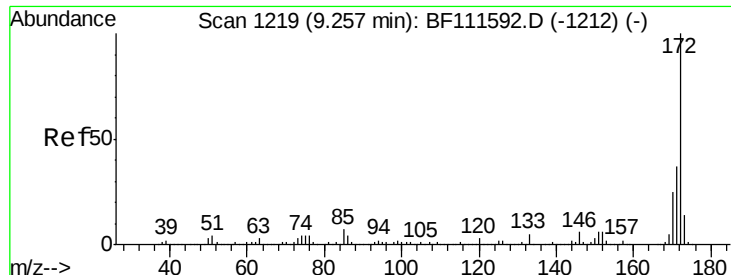
#42  
2,4,6-Tribromophenol  
Concen: 65.120 ng  
RT: 10.72 min Scan# 1467  
Delta R.T. -0.01 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 76.0  | 114.0 |
| 141     | 30.1  | 31.0  | 46.6# |



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

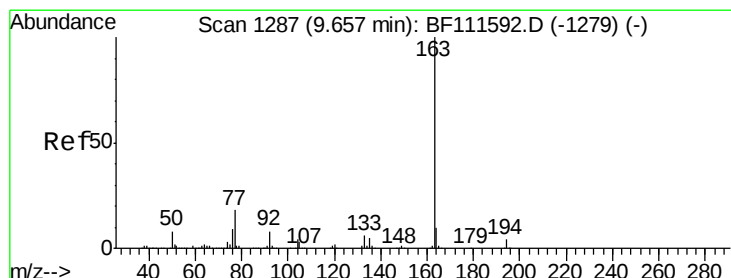
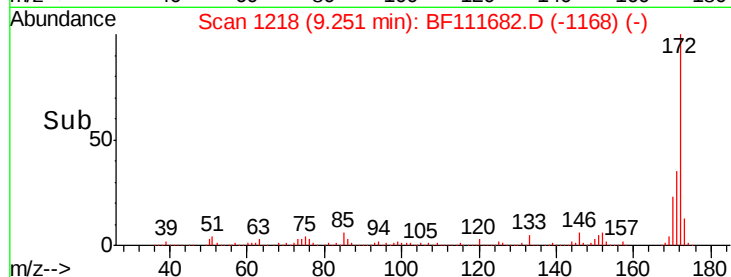
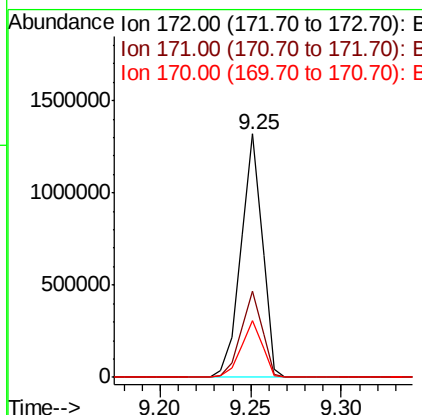
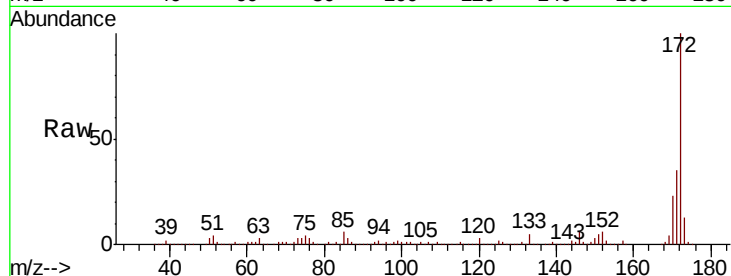




#45  
2-Fluorobiphenyl  
Concen: 39.826 ng  
RT: 9.25 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

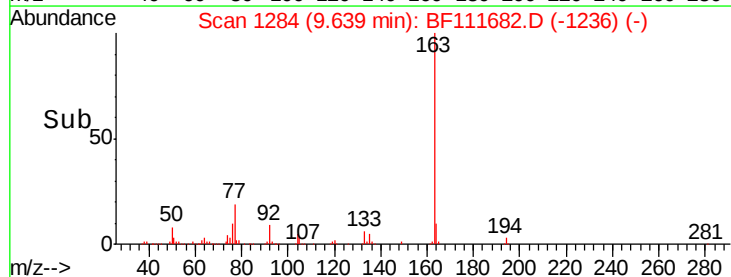
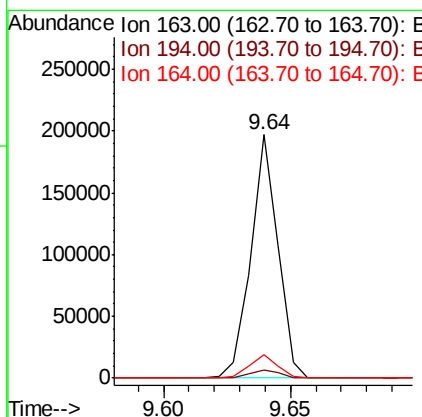
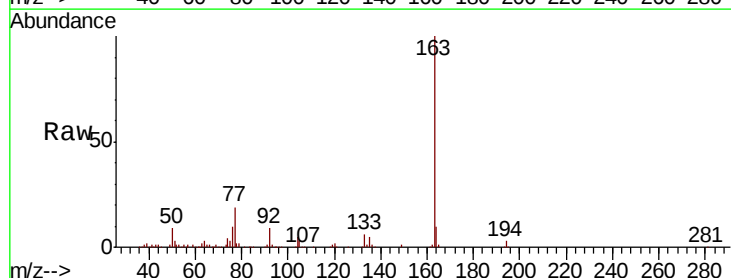
Instrument :  
BNA\_F  
ClientSampleId :

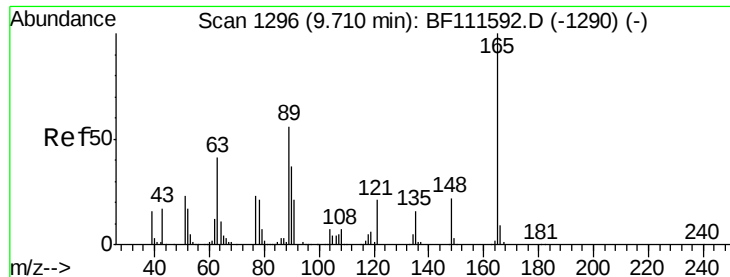
Tot Ion:172 Resp: 1076523  
Ion Ratio Lower Upper  
172 100  
171 35.5 33.0 49.4  
170 23.4 22.3 33.5



#50  
Dimethylphthalate  
Concen: 5.074 ng  
RT: 9.64 min Scan# 1284  
Delta R.T. -0.02 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Tgt Ion:163 Resp: 146181  
Ion Ratio Lower Upper  
163 100  
194 3.5 3.0 4.6  
164 9.7 8.9 13.3





#51

2,6-Dinitrotoluene

Concen: 8.722 ng

RT: 9.93 min Scan# 1334

Delta R.T. 0.22 min

Lab File: BF111682.D

Acq: 21 Dec 2018 12:48

Instrument :

BNA\_F

ClientSampleId :

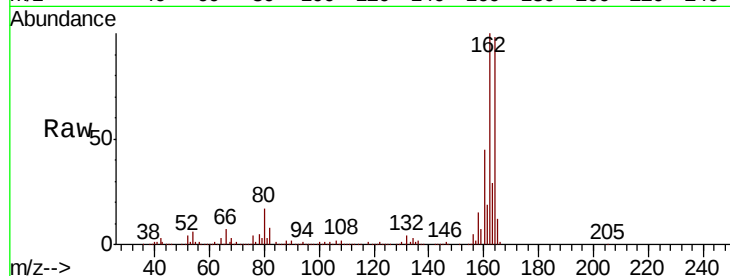
Tot Ion:165 Resp: 50107

Ion Ratio Lower Upper

165 100

63 1.4 40.5 60.7#

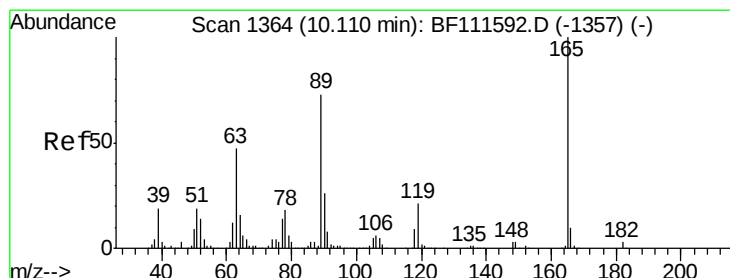
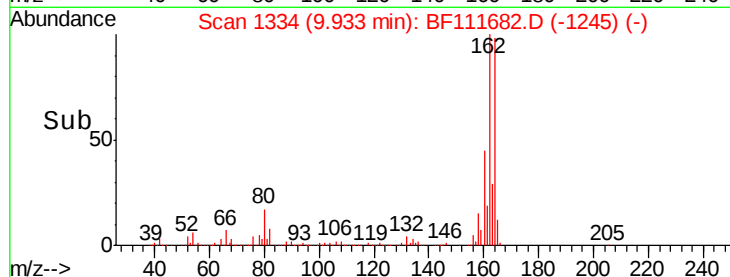
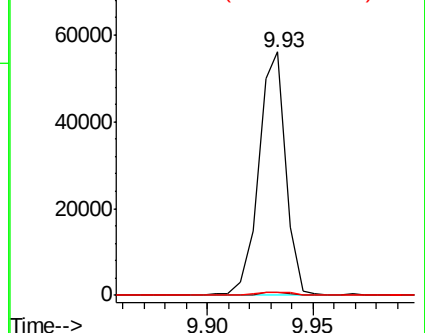
89 1.3 40.0 60.0#



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



#57

2,4-Dinitrotoluene

Concen: 7.257 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.18 min

Lab File: BF111682.D

Acq: 21 Dec 2018 12:48

Tgt Ion:165 Resp: 50107

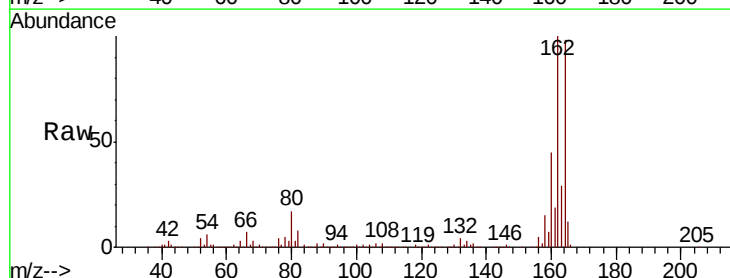
Ion Ratio Lower Upper

165 100

63 1.4 34.6 52.0#

89 1.3 56.2 84.4#

182 0.0 1.8 2.6#

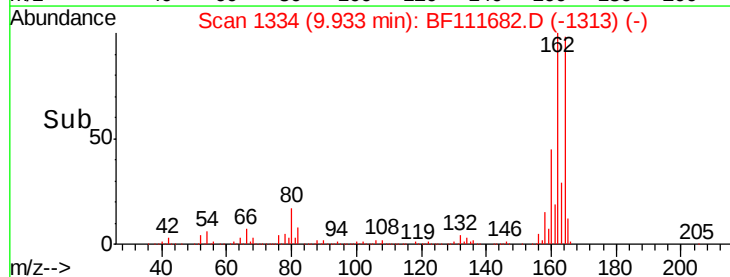
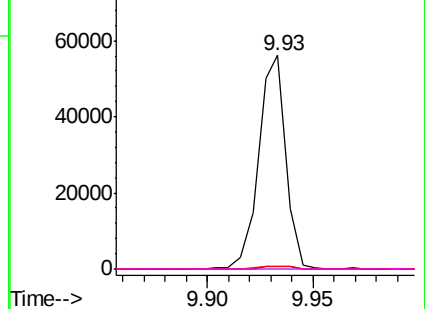


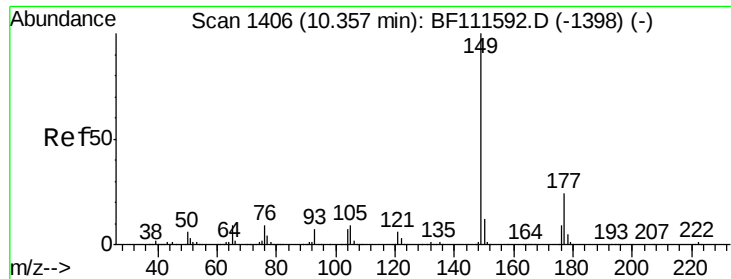
Abundance Ion 165.00 (164.70 to 165.70): E

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

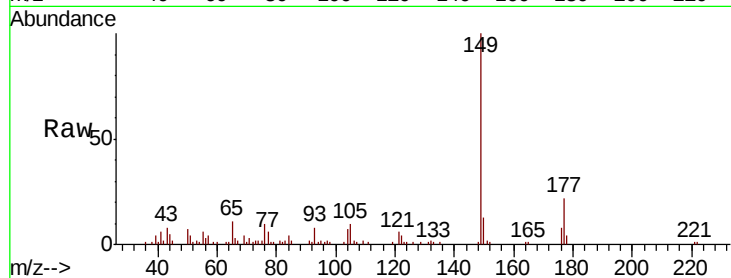




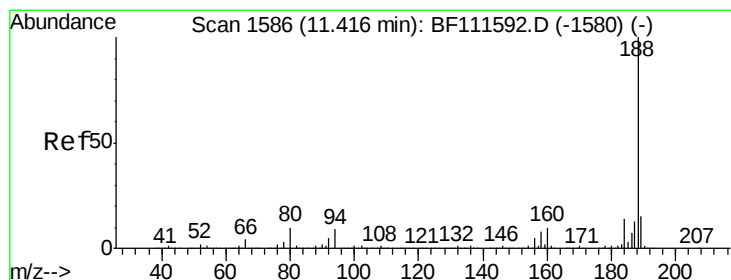
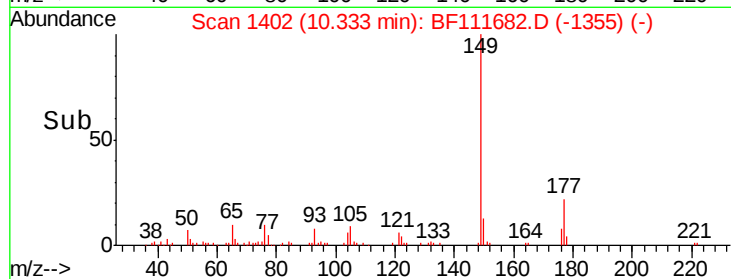
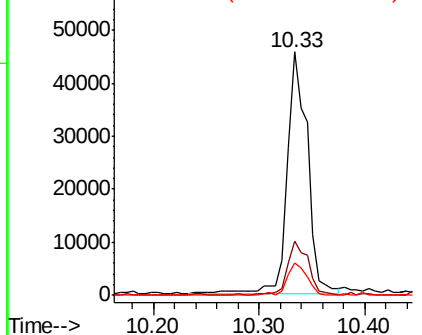
#60  
Diethylphthalate  
Concen: 2.122 ng  
RT: 10.33 min Scan# 1402  
Delta R.T. -0.02 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:149 Resp: 59975  
Ion Ratio Lower Upper  
149 100  
177 22.3 18.3 27.5  
150 13.2 10.6 15.8

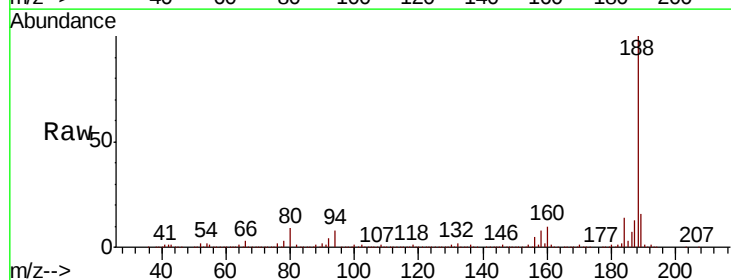


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

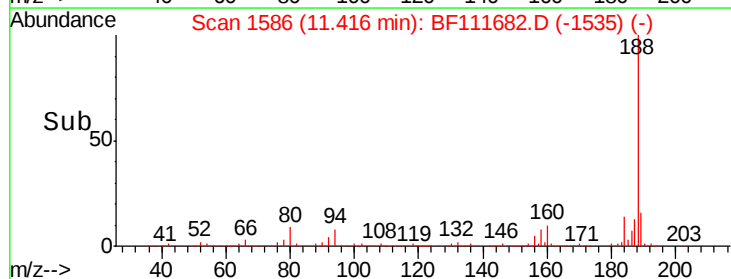
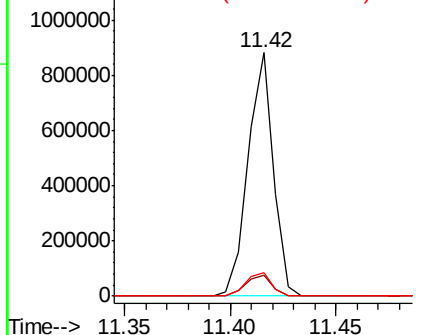


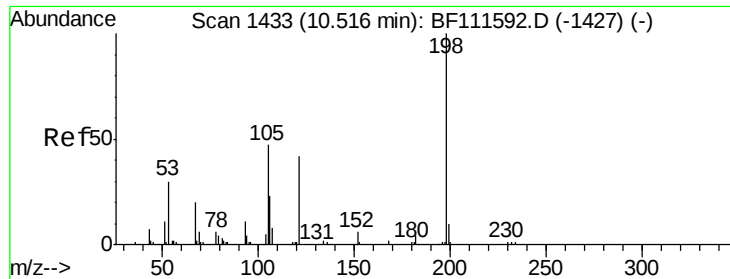
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.00 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Tgt Ion:188 Resp: 732186  
Ion Ratio Lower Upper  
188 100  
94 8.4 9.6 14.4#  
80 9.4 9.8 14.6#



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

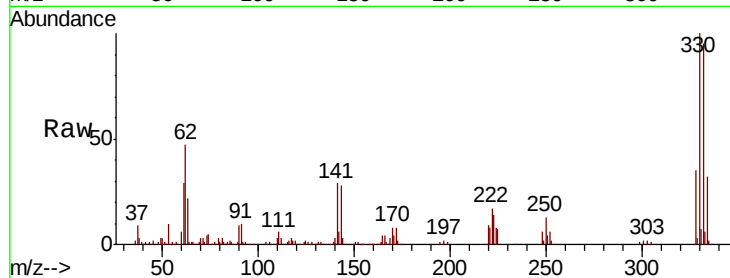




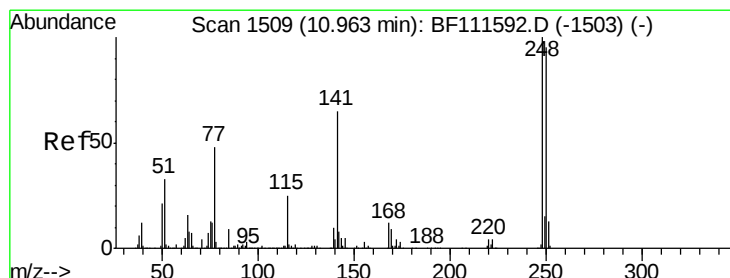
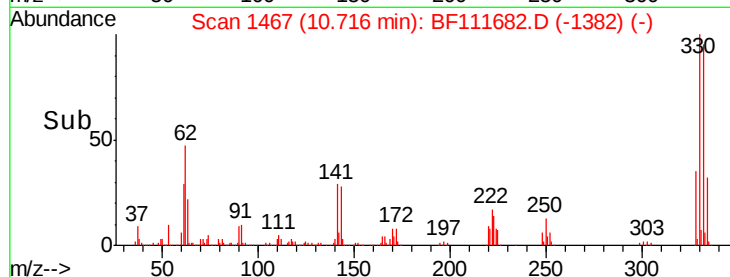
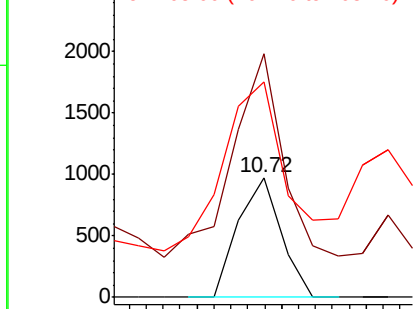
#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.889 ng  
RT: 10.72 min Scan# 1467  
Delta R.T. 0.20 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:198 Resp: 689  
Ion Ratio Lower Upper  
198 100  
51 203.0 48.0 88.0#  
105 179.9 34.0 74.0#

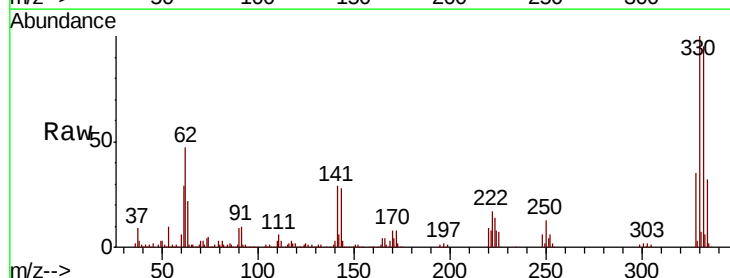


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

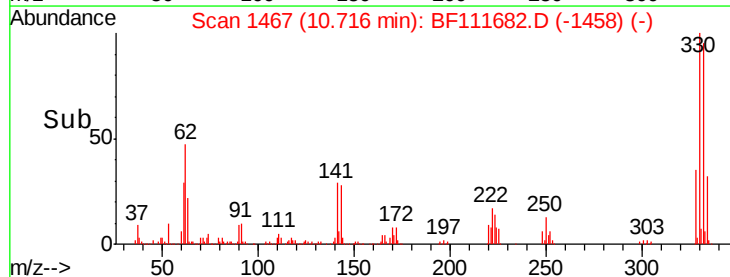
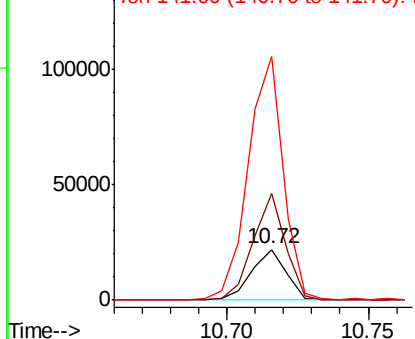


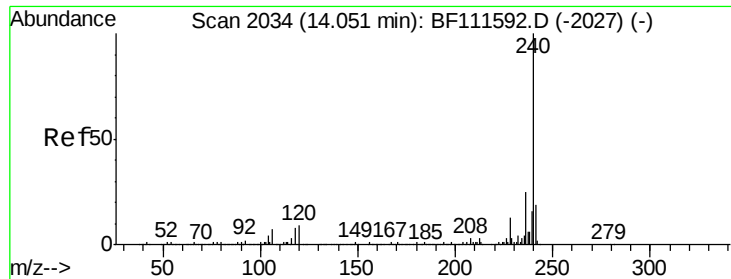
#67  
4-Bromophenyl-phenylether  
Concen: 2.034 ng  
RT: 10.72 min Scan# 1467  
Delta R.T. -0.25 min  
Lab File: BF111682.D  
Acq: 21 Dec 2018 12:48

Tgt Ion:248 Resp: 18475  
Ion Ratio Lower Upper  
248 100  
250 210.2 77.0 115.4#  
141 477.7 63.0 94.6#



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

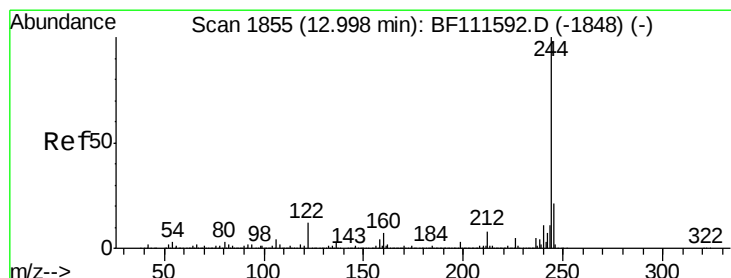
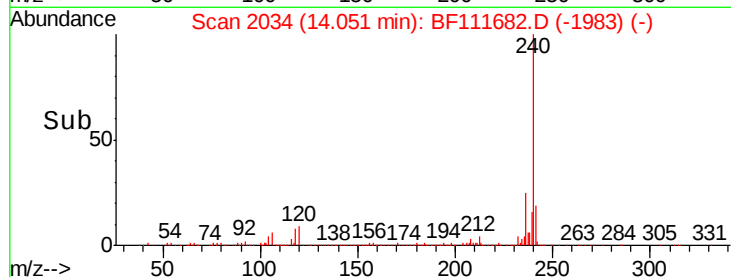
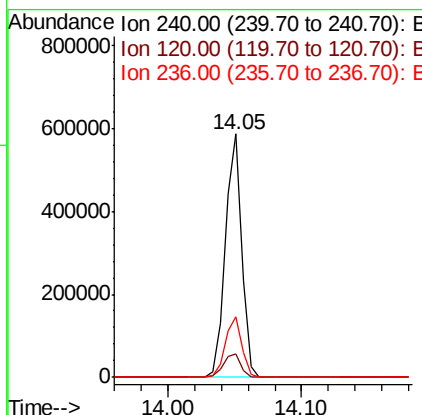
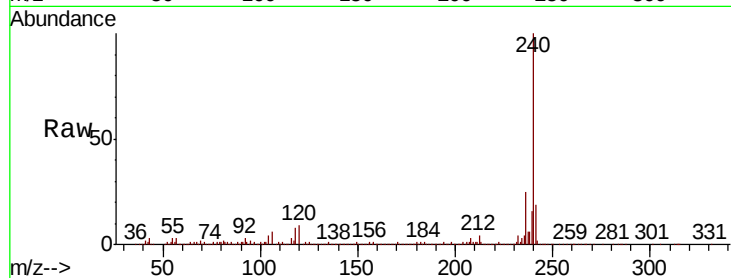




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.05 min Scan# 2034  
 Delta R.T. -0.00 min  
 Lab File: BF111682.D  
 Acq: 21 Dec 2018 12:48

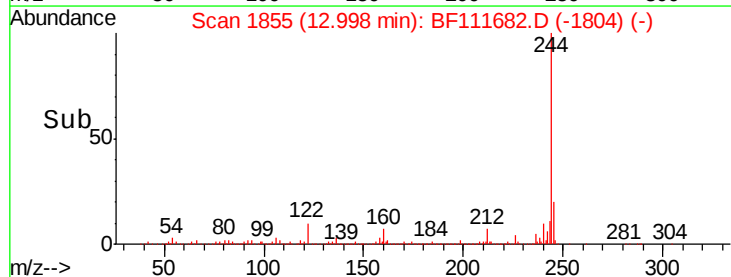
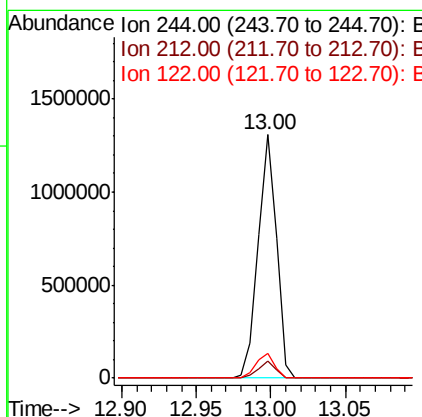
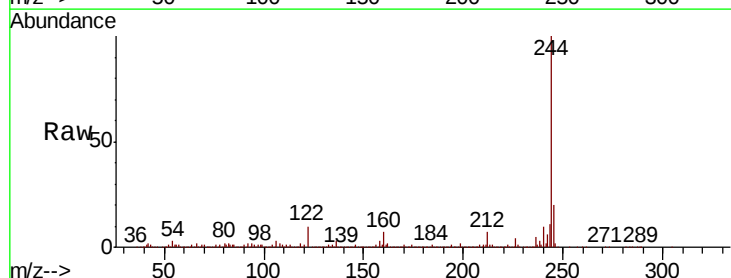
Instrument :  
 BNA\_F  
 ClientSampleId :

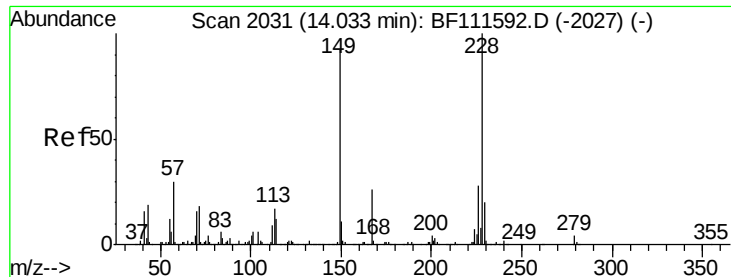
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.4   | 12.2  | 18.2# |
| 236     | 25.0  | 20.2  | 30.2  |



#79  
 Terphenyl-d14  
 Concen: 41.159 ng  
 RT: 13.00 min Scan# 1855  
 Delta R.T. -0.00 min  
 Lab File: BF111682.D  
 Acq: 21 Dec 2018 12:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.7   | 8.5   |
| 122     | 10.2  | 13.1  | 19.7# |





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.267 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF111682.D

Acq: 21 Dec 2018 12:48

Instrument :

BNA\_F

ClientSampleId :

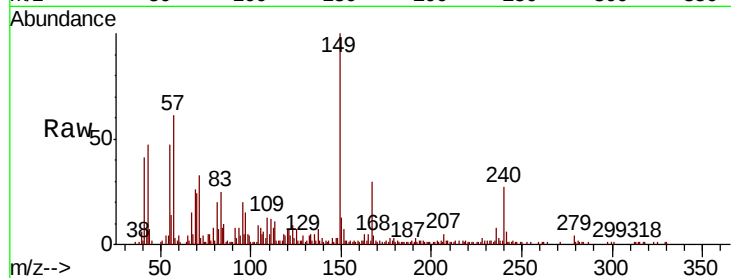
Tot Ion:149 Resp: 41669

Ion Ratio Lower Upper

149 100

167 29.9 22.5 33.7

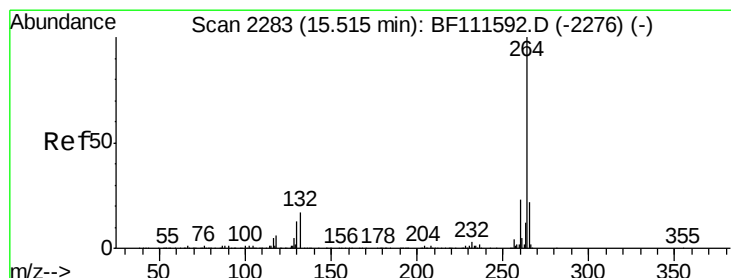
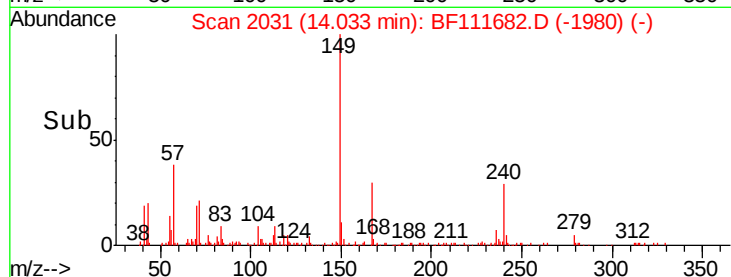
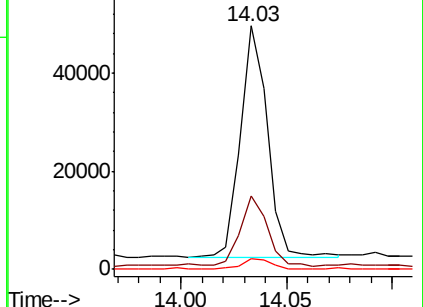
279 4.5 2.6 4.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2285

Delta R.T. 0.01 min

Lab File: BF111682.D

Acq: 21 Dec 2018 12:48

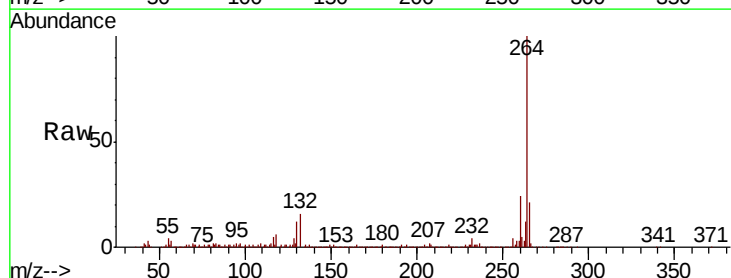
Tgt Ion:264 Resp: 476334

Ion Ratio Lower Upper

264 100

260 23.9 18.3 27.5

265 20.9 17.7 26.5



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

