

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090319\  
 Data File : BF116773.D  
 Acq On : 3 Sep 2019 15:38  
 Operator : HP/JU  
 Sample : K4454-57  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 04 01:26:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 30 20:02:30 2019  
 Response via : Initial Calibration

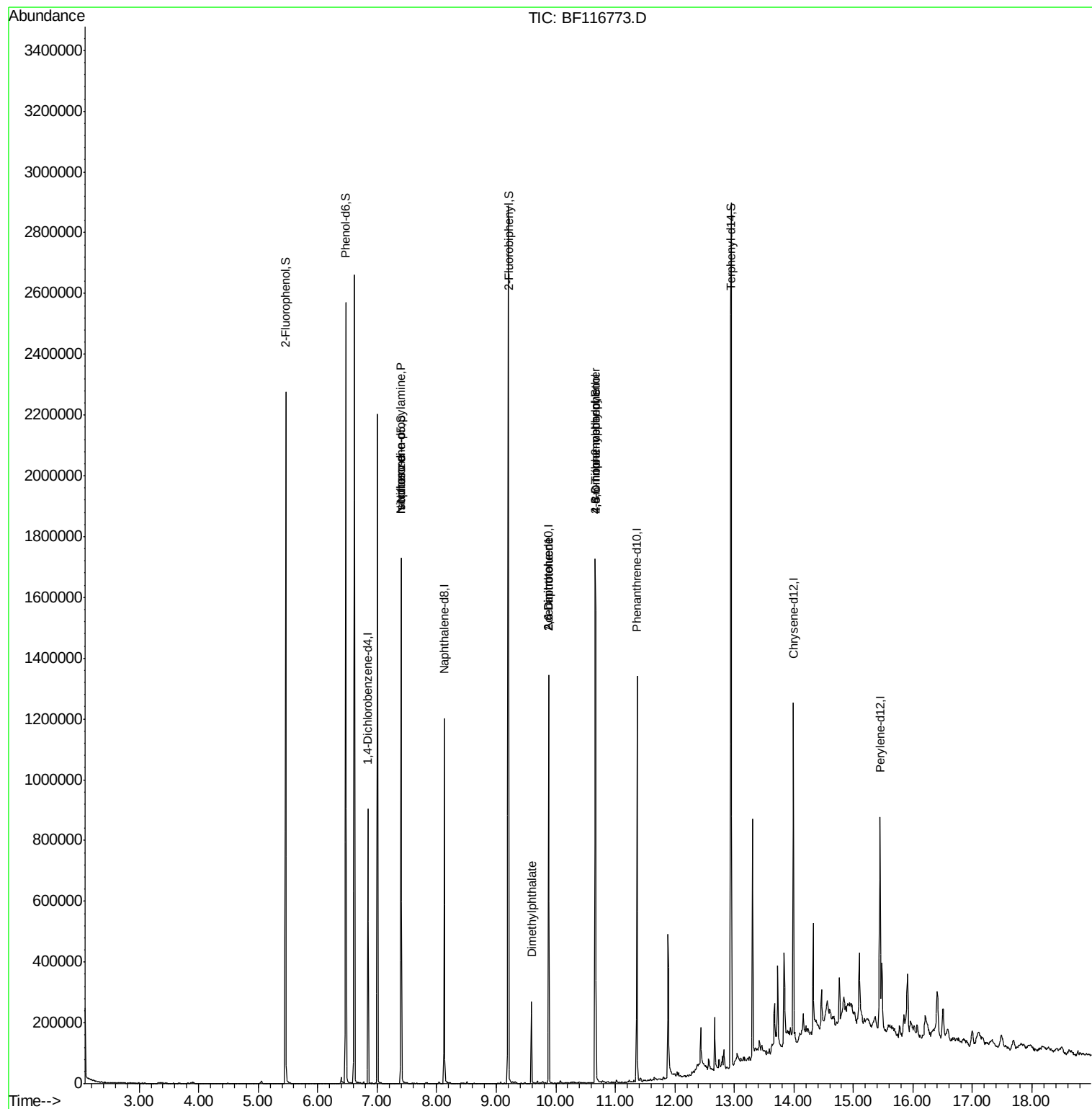
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 121177   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 485851   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.88  | 164  | 250418   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.36 | 188  | 423703   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.99 | 240  | 321454   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.44 | 264  | 305848   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 642505   | 85.90  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 864672   | 88.04  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 533231   | 62.65  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 187563   | 112.04 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 891090   | 60.03  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.95 | 244  | 923102   | 53.12  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 69312    | 10.718 | ng    | # 72     |
| 25) Isophorone                 | 7.40  | 82   | 533222   | 30.919 | ng    | # 66     |
| 50) Dimethylphthalate          | 9.59  | 163  | 108135   | 6.255  | ng    | 97       |
| 51) 2,6-Dinitrotoluene         | 9.88  | 165  | 32387    | 9.818  | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 9.88  | 165  | 32387    | 8.030  | ng    | # 21     |
| 65) 4,6-Dinitro-2-methylphenol | 10.67 | 198  | 330      | 7.630  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 12084    | 2.807  | ng    | # 1      |

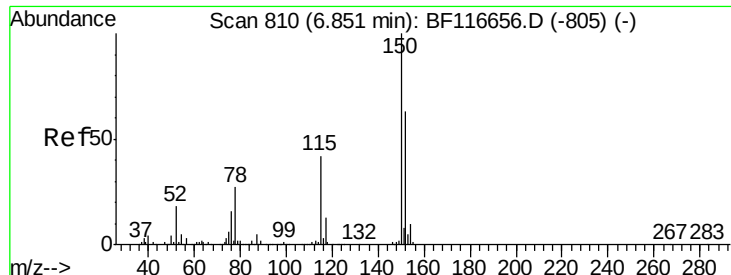
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090319\  
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BNA\_F  
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QLast Update : Fri Aug 30 20:02:30 2019  
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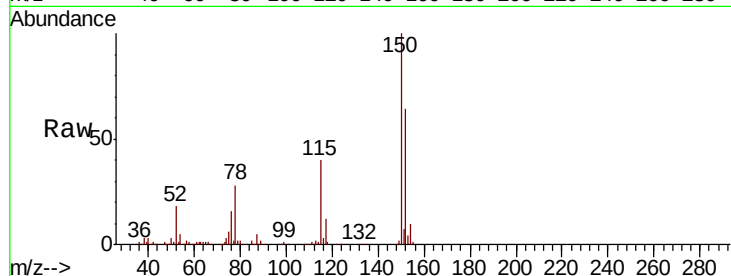


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF116773.D  
Acq: 3 Sep 2019 15:38

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 124.4 | 186.6 |
| 115     | 62.9  | 49.9  | 74.9  |

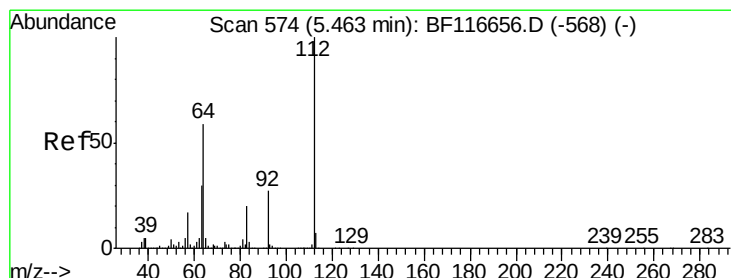
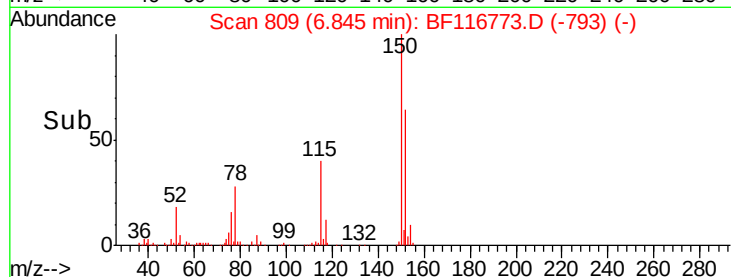
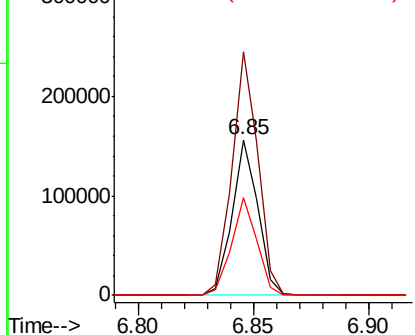


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

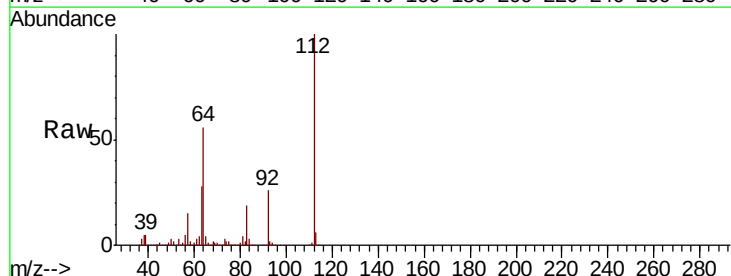
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 85.899 ng  
RT: 5.46 min Scan# 574  
Delta R.T. 0.00 min  
Lab File: BF116773.D  
Acq: 3 Sep 2019 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.0  | 47.1  | 70.7  |
| 63      | 27.7  | 24.9  | 37.3  |

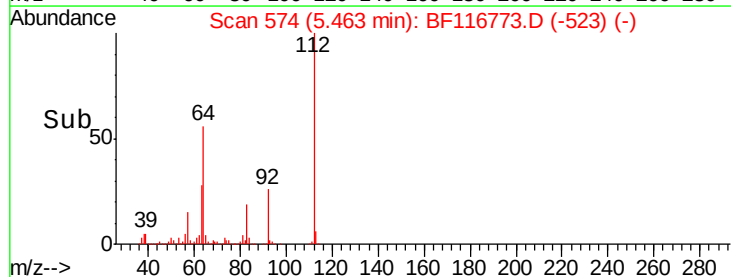
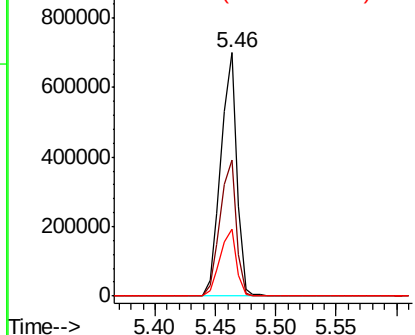


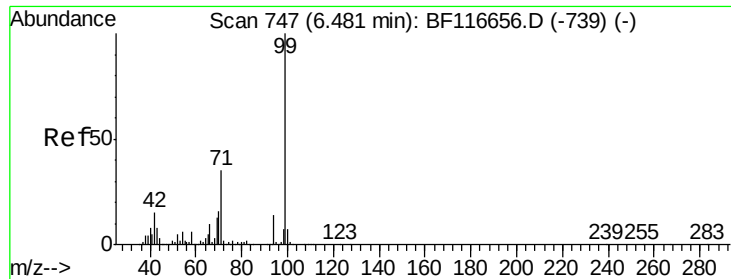
Abundance

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: 88.036 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

Instrument :

BNA\_F

ClientSampled :

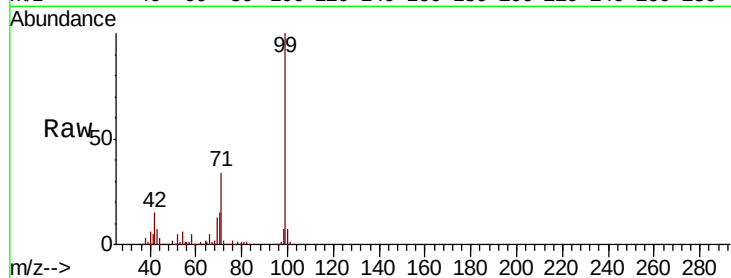
Tot Ion: 99 Resp: 864672

Ion Ratio Lower Upper

99 100

42 14.8 13.7 20.5

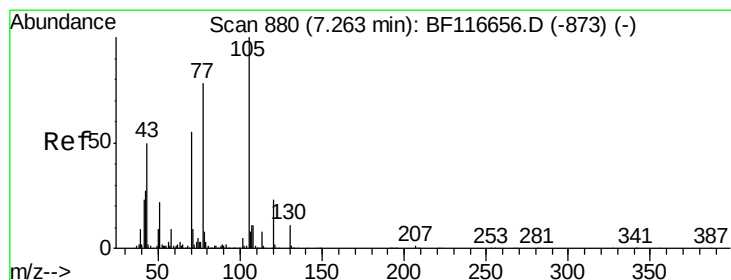
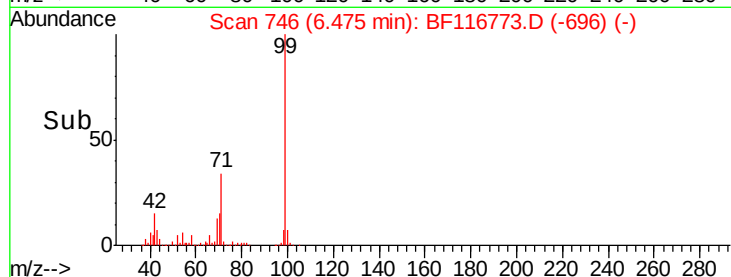
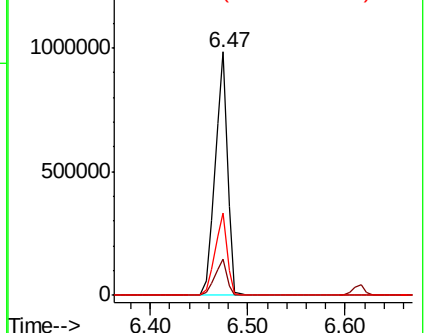
71 33.9 30.8 46.2



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: 10.718 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

Tgt Ion: 70 Resp: 69312

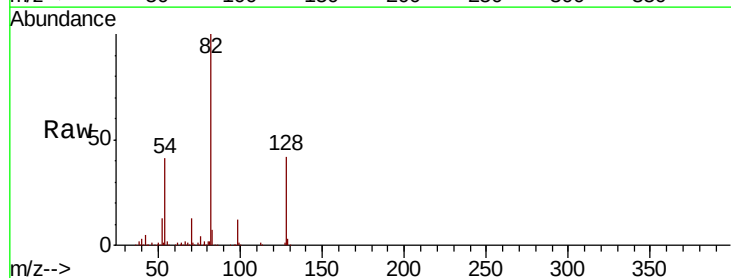
Ion Ratio Lower Upper

70 100

42 37.6 43.5 65.3#

101 0.0 7.8 11.6#

130 2.0 16.6 24.8#

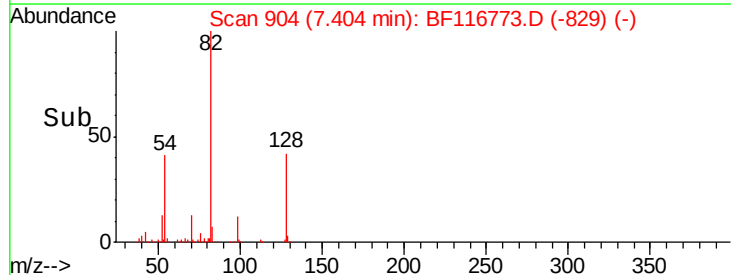
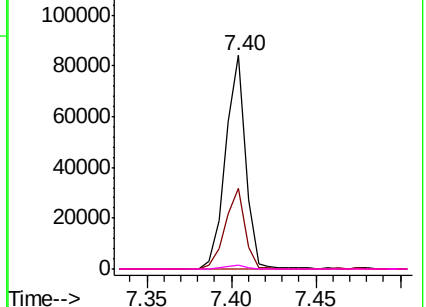


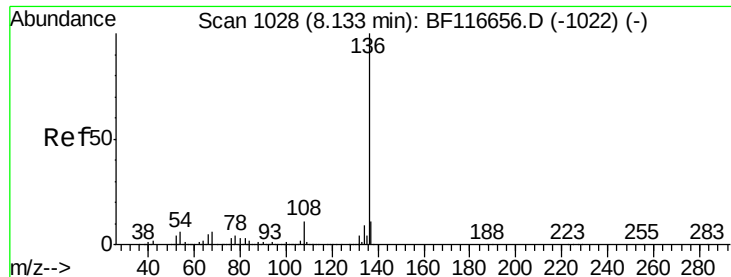
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

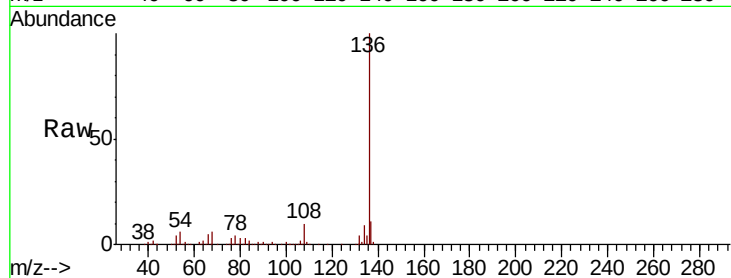




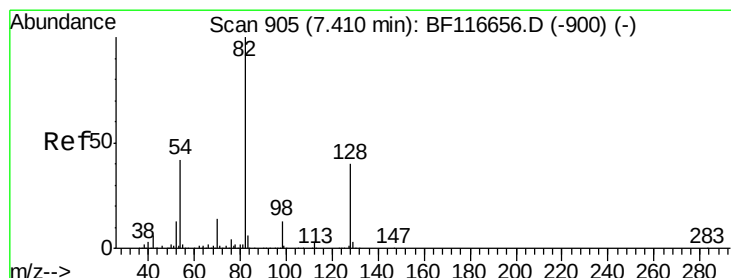
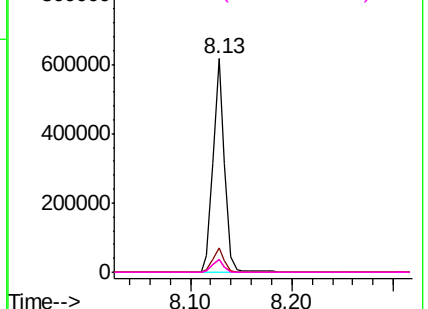
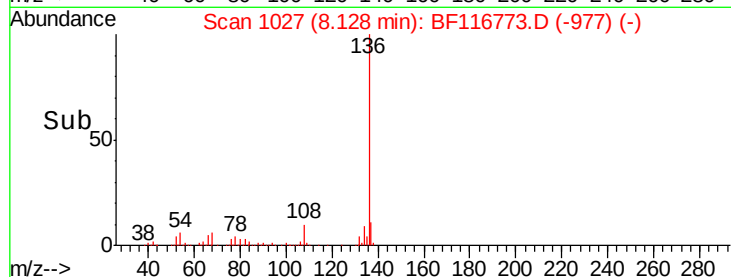
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF116773.D  
Acq: 3 Sep 2019 15:38

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 485851   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.5  | 8.9 13.3 |
| 54          | 6.3   | 4.8 7.2  |
| 68          | 5.8   | 4.0 6.0  |

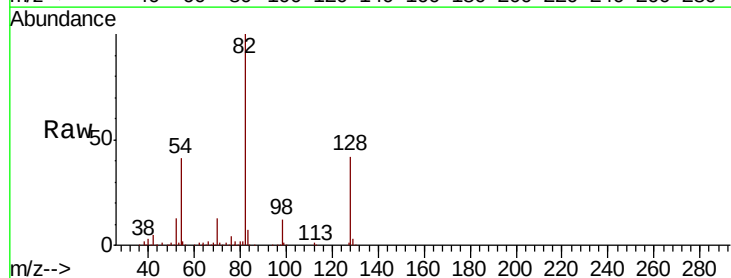


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

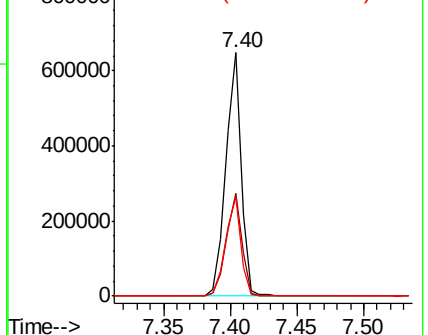
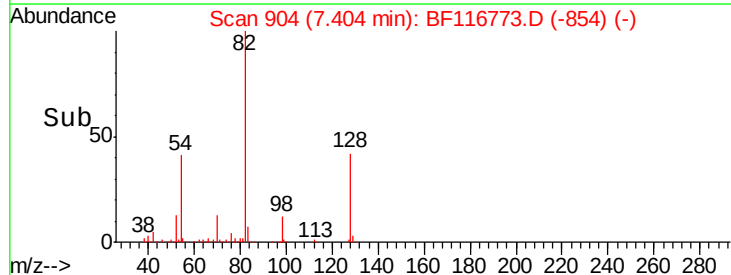


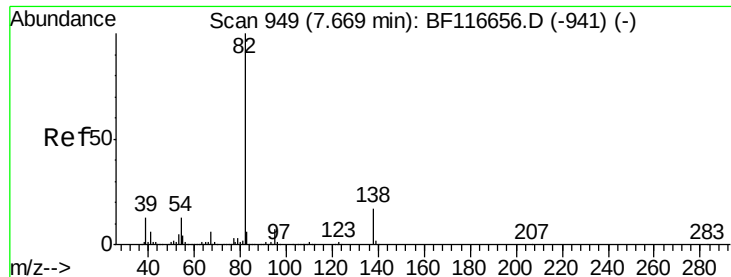
#23  
Nitrobenzene-d5  
Concen: 62.654 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF116773.D  
Acq: 3 Sep 2019 15:38

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 533231    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.4  | 32.8 49.2 |
| 54          | 40.9  | 36.9 55.3 |



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: 30.919 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

Instrument :

BNA\_F

ClientSampleId :

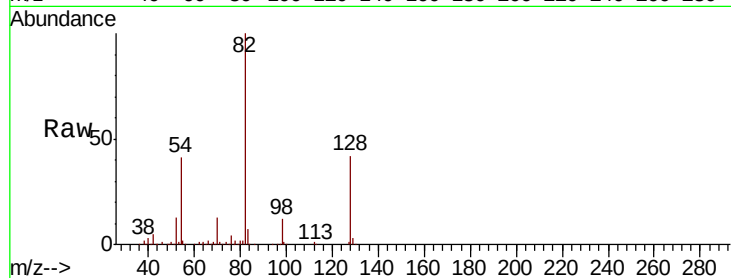
Tot Ion: 82 Resp: 533222

Ion Ratio Lower Upper

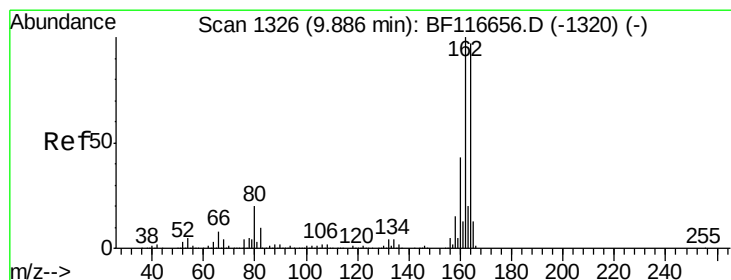
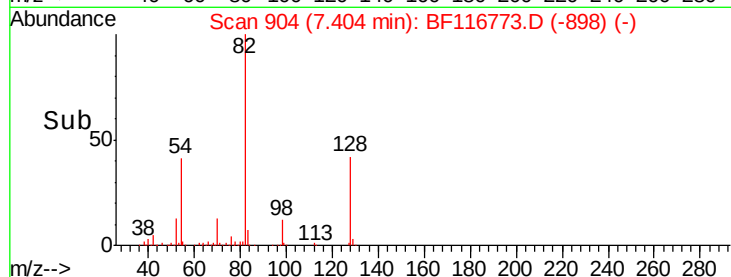
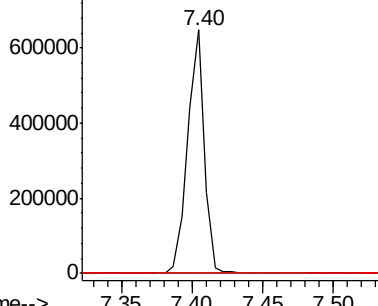
82 100

95 0.0 5.8 8.6#

138 0.0 13.5 20.3#



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: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

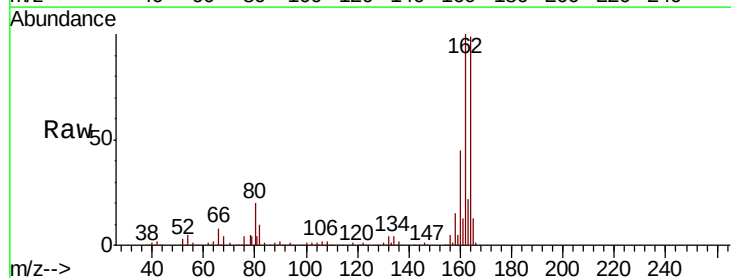
Tgt Ion:164 Resp: 250418

Ion Ratio Lower Upper

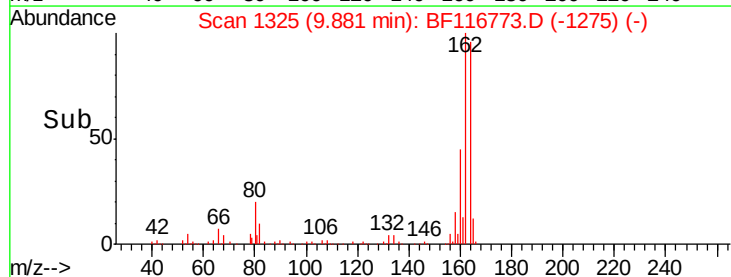
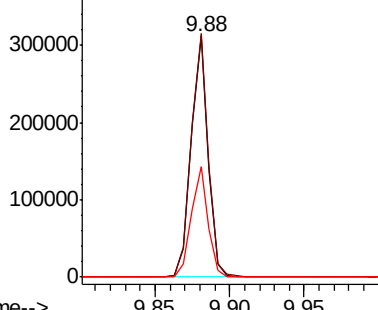
164 100

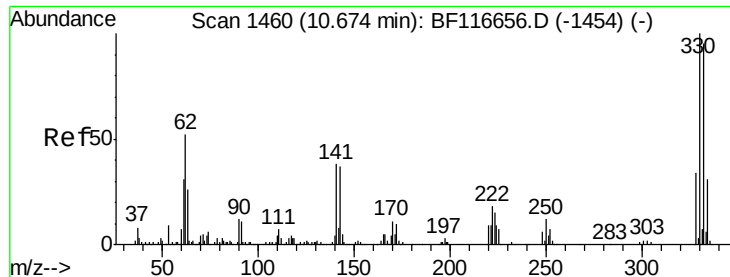
162 101.2 81.4 122.0

160 45.7 35.4 53.2



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

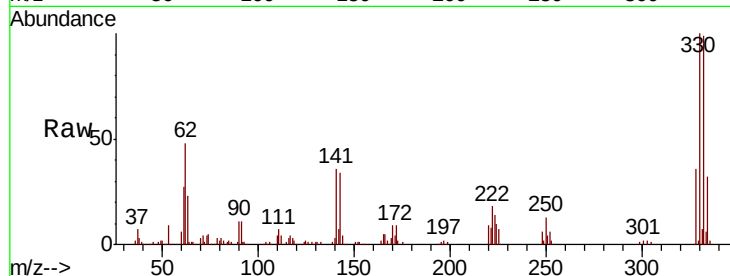




#42  
 2,4,6-Tribromophenol  
 Concen: 112.038 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.01 min  
 Lab File: BF116773.D  
 Acq: 3 Sep 2019 15:38

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 76.9  | 115.3 |
| 141     | 43.1  | 31.4  | 47.2  |

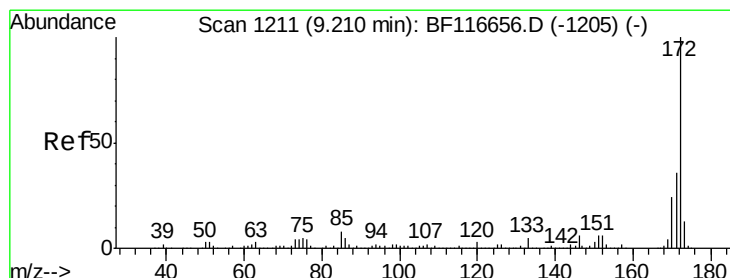
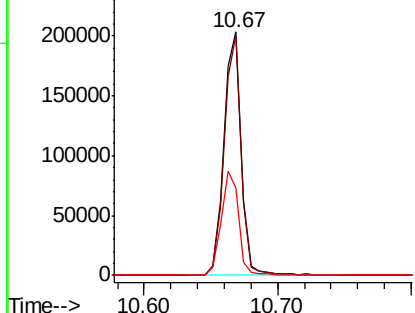
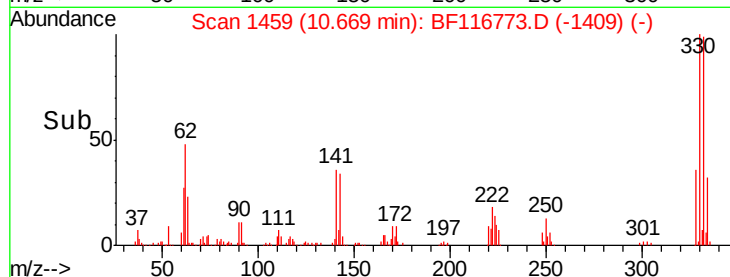


Abundance

Ion 329.80 (329.50 to 330.50): E

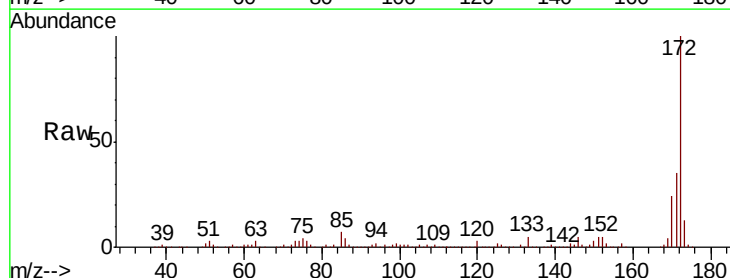
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 60.027 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.00 min  
 Lab File: BF116773.D  
 Acq: 3 Sep 2019 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 27.8  | 41.6  |
| 170     | 23.7  | 18.9  | 28.3  |

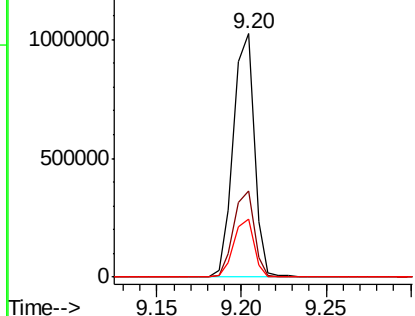
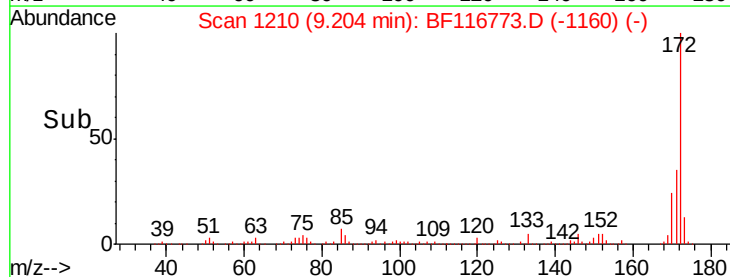


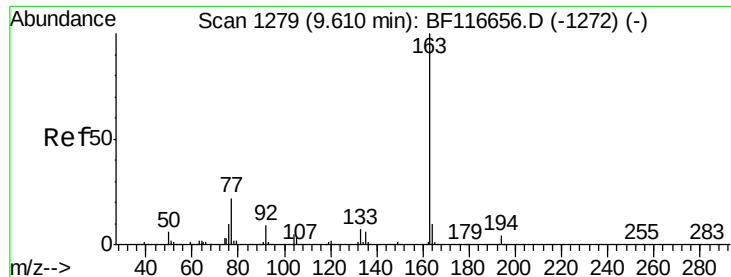
Abundance

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





#50

Dimethylphthalate

Concen: 6.255 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

Instrument :

BNA\_F

ClientSampleId :

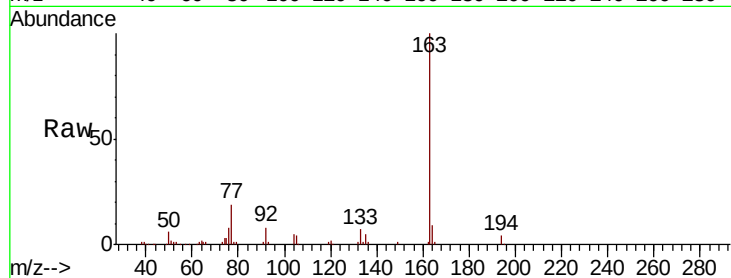
Tot Ion:163 Resp: 108135

Ion Ratio Lower Upper

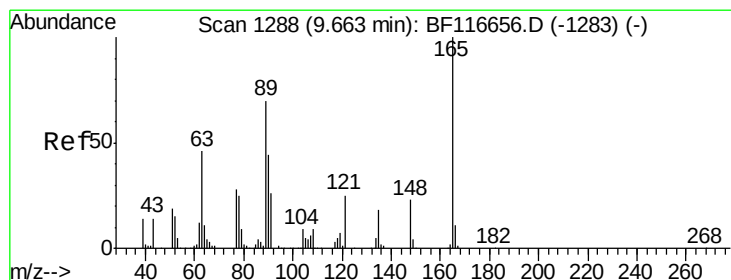
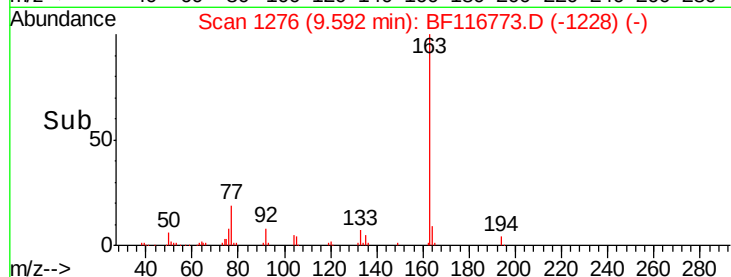
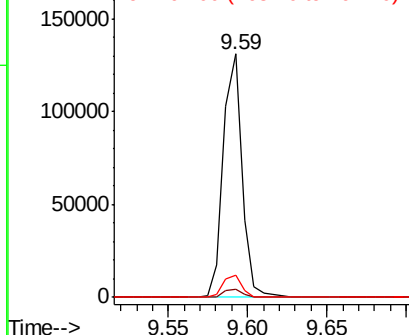
163 100

194 3.5 2.8 4.2

164 9.1 8.6 12.8



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 9.818 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.22 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

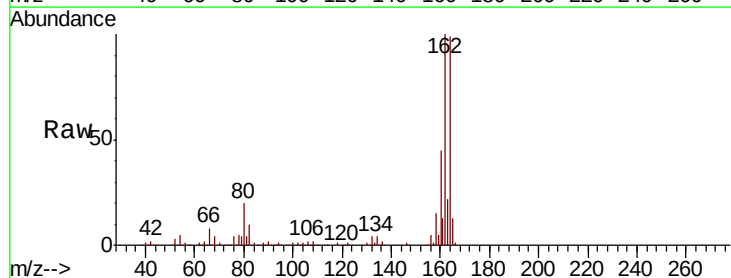
Tgt Ion:165 Resp: 32387

Ion Ratio Lower Upper

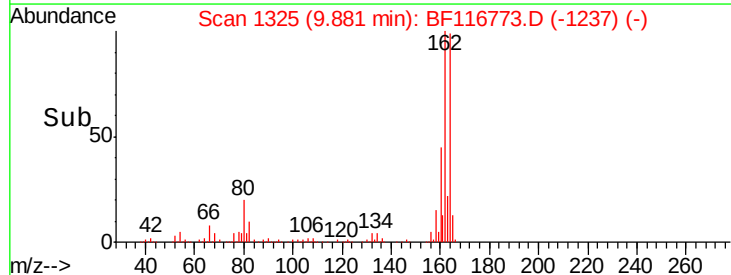
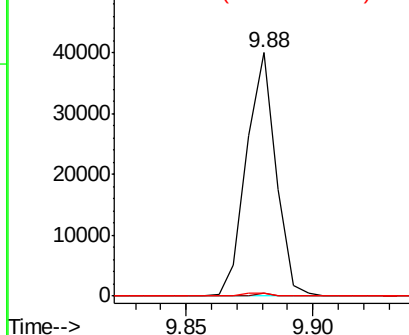
165 100

63 1.4 47.3 70.9#

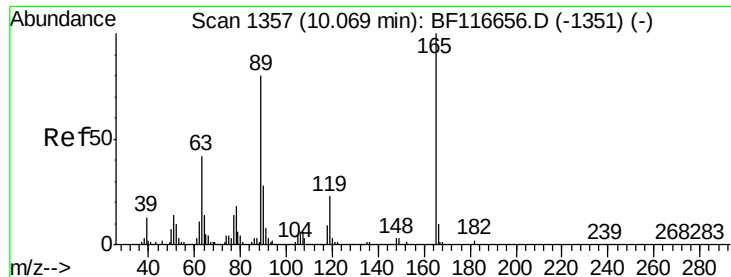
89 1.3 52.5 78.7#



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: 8.030 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.19 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 32387

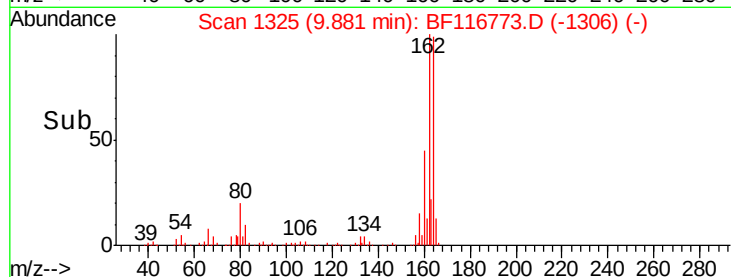
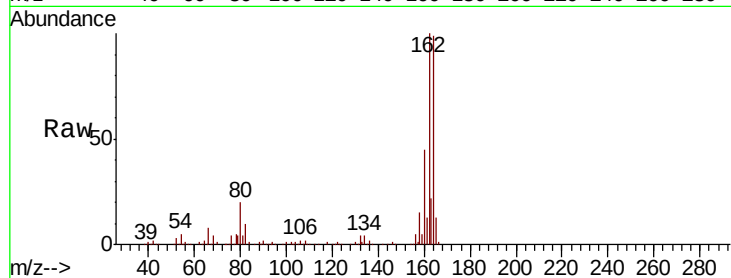
Ion Ratio Lower Upper

165 100

63 1.4 36.4 54.6#

89 1.3 62.6 94.0#

182 0.0 2.1 3.1#

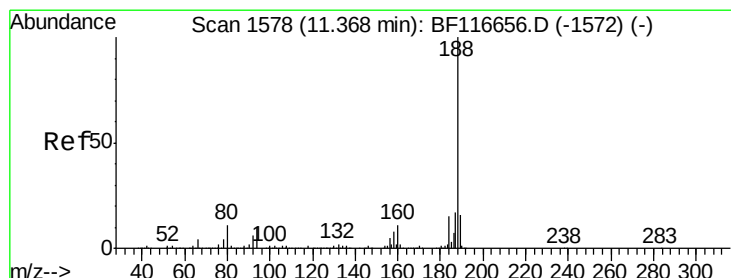
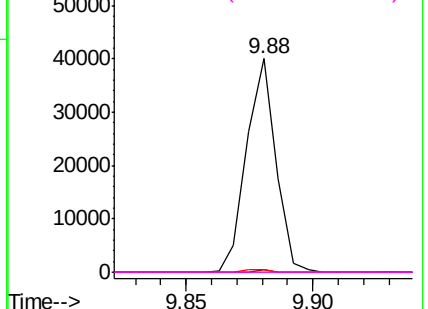


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF116773.D

Acq: 3 Sep 2019 15:38

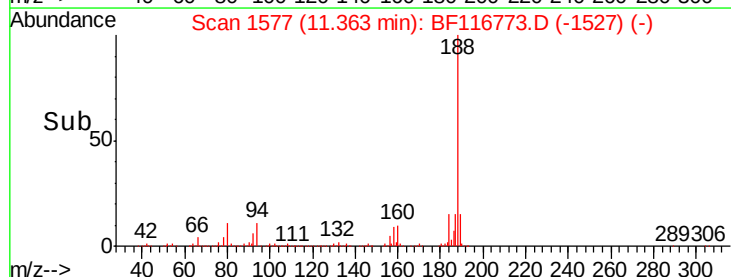
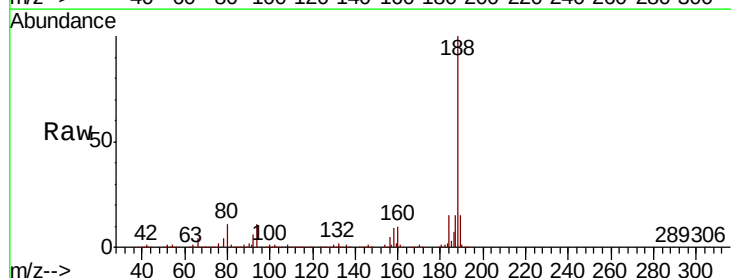
Tgt Ion:188 Resp: 423703

Ion Ratio Lower Upper

188 100

94 10.9 7.3 10.9

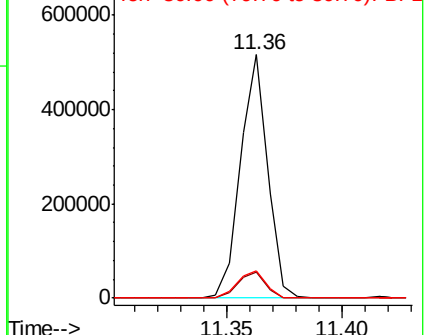
80 11.5 8.4 12.6

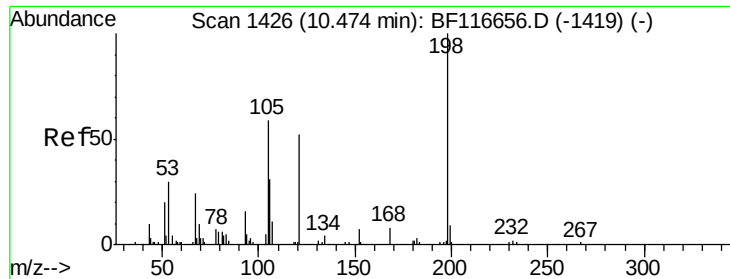


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

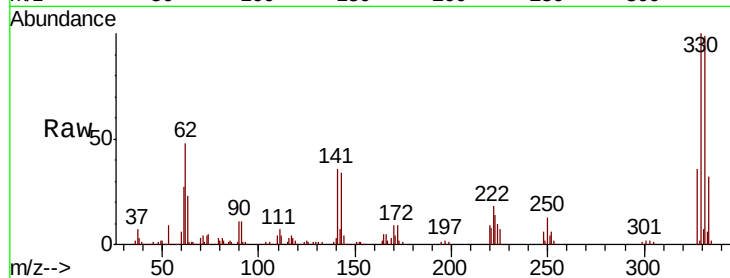




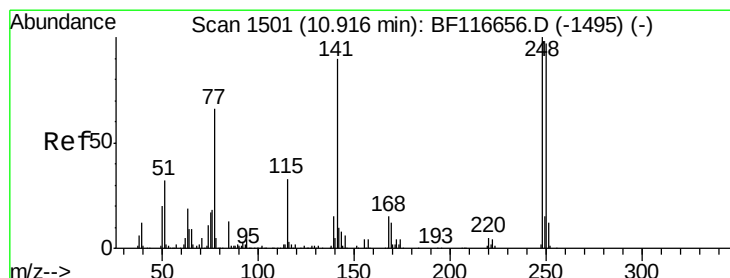
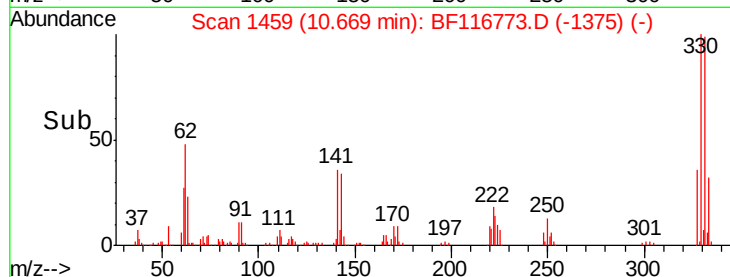
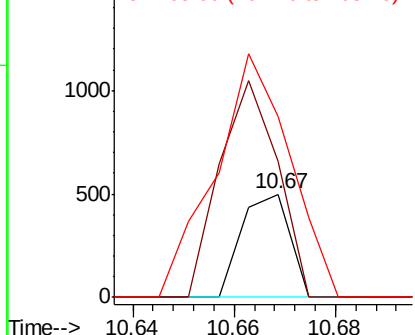
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.630 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. 0.19 min  
 Lab File: BF116773.D  
 Acq: 3 Sep 2019 15:38

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:198 Resp: 330  
 Ion Ratio Lower Upper  
 198 100  
 51 131.9 18.4 58.4#  
 105 175.6 22.9 62.9#

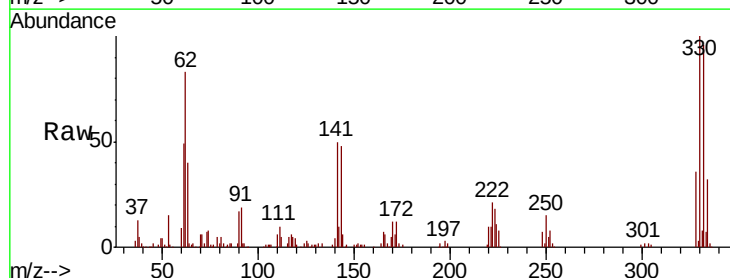


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

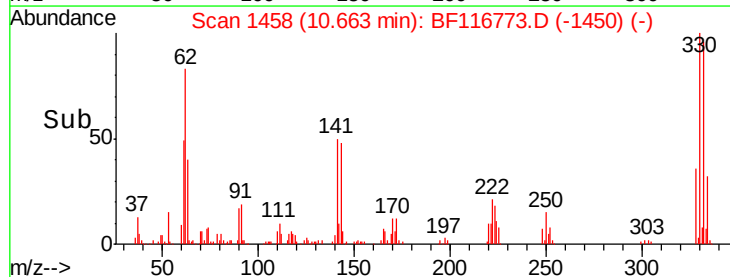
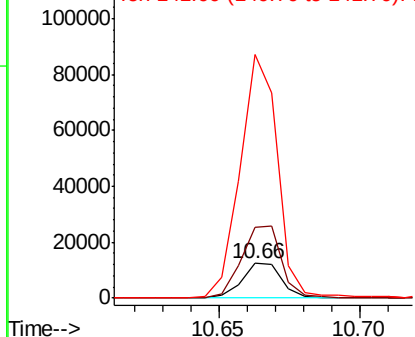


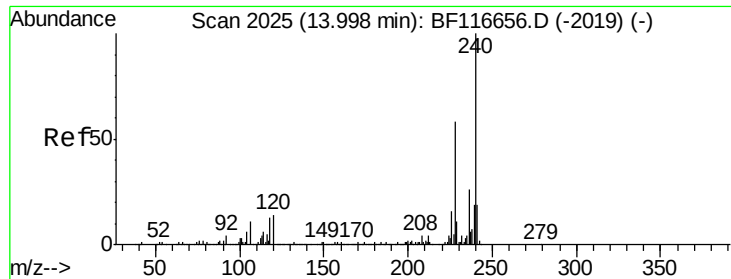
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.807 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.25 min  
 Lab File: BF116773.D  
 Acq: 3 Sep 2019 15:38

Tgt Ion:248 Resp: 12084  
 Ion Ratio Lower Upper  
 248 100  
 250 203.1 77.8 116.8#  
 141 698.3 75.9 113.9#



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

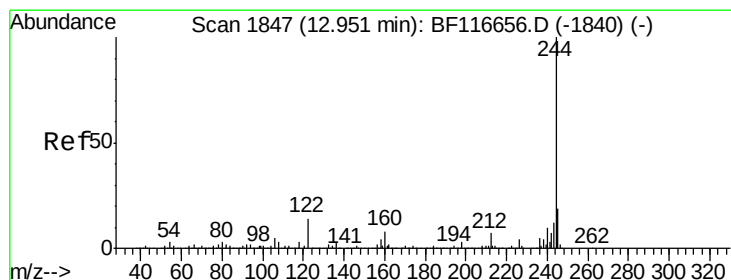
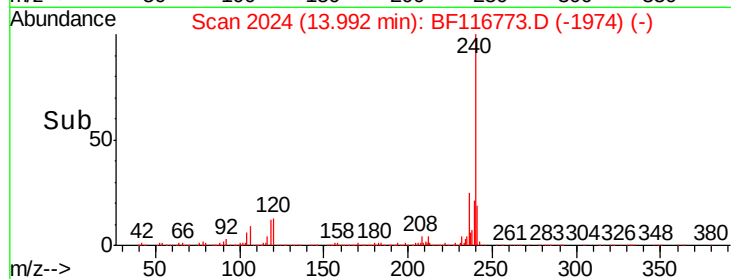
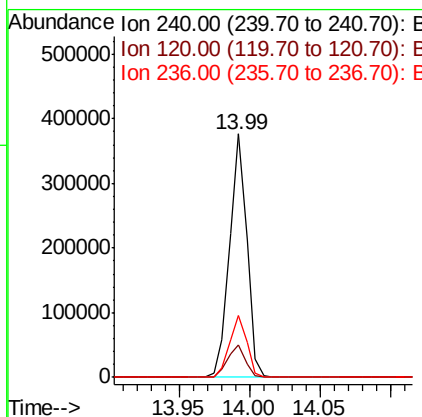
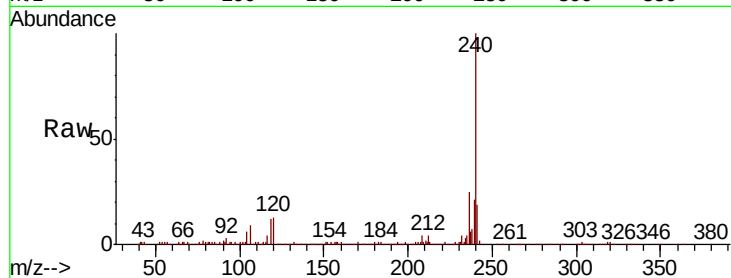




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.99 min Scan# 2024  
 Delta R.T. -0.01 min  
 Lab File: BF116773.D  
 Acq: 3 Sep 2019 15:38

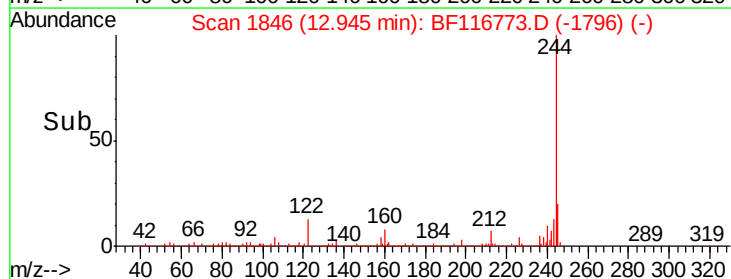
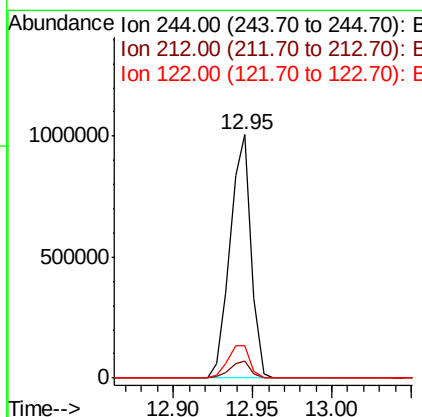
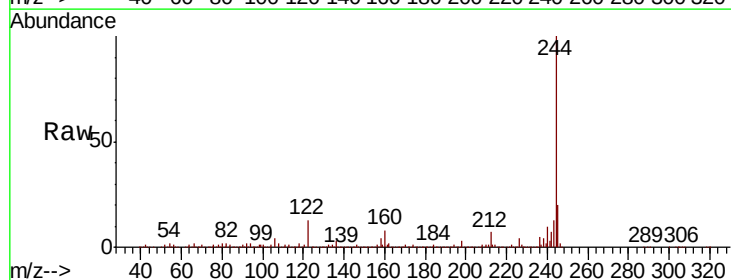
Instrument :  
 BNA\_F  
 ClientSampleId :

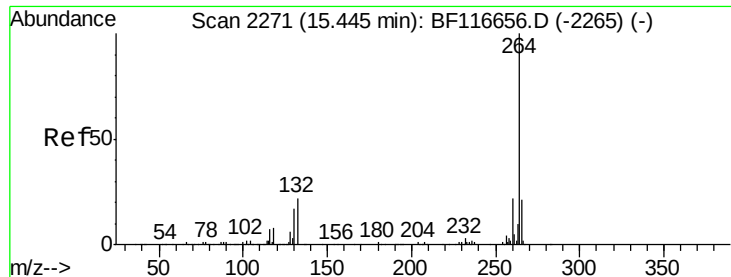
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.2  | 9.1   | 13.7  |
| 236     | 25.3  | 21.1  | 31.7  |



#79  
 Terphenyl-d14  
 Concen: 53.124 ng  
 RT: 12.95 min Scan# 1846  
 Delta R.T. -0.01 min  
 Lab File: BF116773.D  
 Acq: 3 Sep 2019 15:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 6.1   | 9.1   |
| 122     | 13.3  | 10.2  | 15.4  |

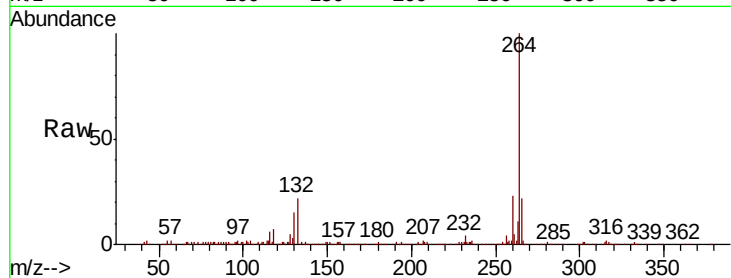




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2271  
Delta R.T. 0.00 min  
Lab File: BF116773.D  
Acq: 3 Sep 2019 15:38

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 18.3  | 27.5  |
| 265     | 21.8  | 16.5  | 24.7  |



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

