

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN110618\  
 Data File : BN003445.D  
 Acq On : 06 Nov 2018 23:14  
 Operator : MJ/SJ  
 Sample : J5827-30  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Nov 07 08:30:02 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-BN102418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 07 08:25:32 2018  
 Response via : Initial Calibration

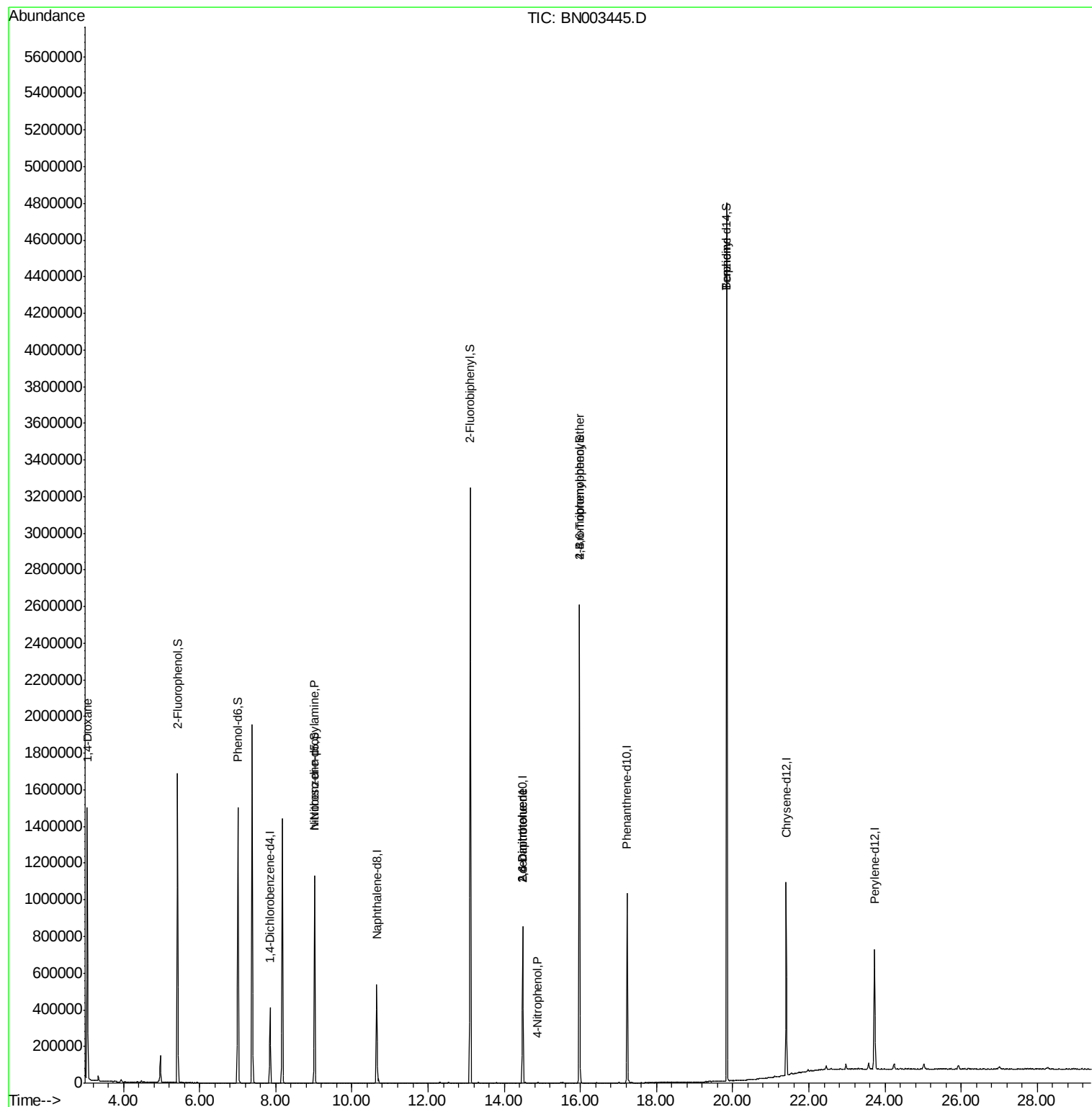
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.85  | 152  | 113099   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.65 | 136  | 472346   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.49 | 164  | 274524   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.23 | 188  | 596809   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.40 | 240  | 485905   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 23.72 | 264  | 484161   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 770036   | 118.59 | ng    | 0.01     |
| 7) Phenol-d6                   | 7.01  | 99   | 913001   | 98.88  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.02  | 82   | 653605   | 79.36  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 15.97 | 330  | 534862   | 144.69 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.11 | 172  | 1728598  | 85.41  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.85 | 244  | 2373616  | 104.47 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.05  | 88   | 11945    | 3.87   | ng    | # 1      |
| 19) n-Nitroso-di-n-propylamine | 9.02  | 70   | 83425    | 12.53  | ng    | # 76     |
| 51) 2,6-Dinitrotoluene         | 14.49 | 165  | 35359    | 7.02   | ng    | # 28     |
| 56) 4-Nitrophenol              | 14.88 | 139  | 712      | 5.59   | ng    | # 11     |
| 57) 2,4-Dinitrotoluene         | 14.49 | 165  | 35359    | 5.18   | ng    | # 19     |
| 67) 4-Bromophenyl-phenylether  | 15.97 | 248  | 34555    | 5.14   | ng    | # 1      |
| 77) Benzidine                  | 19.85 | 184  | 28728    | 2.02   | ng    | # 93     |

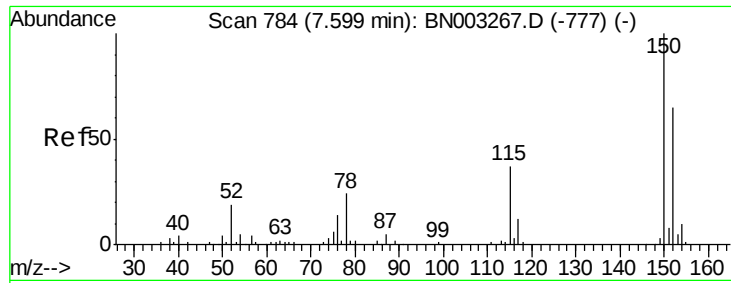
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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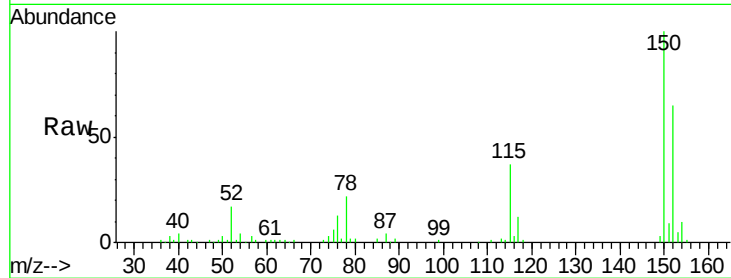


#1

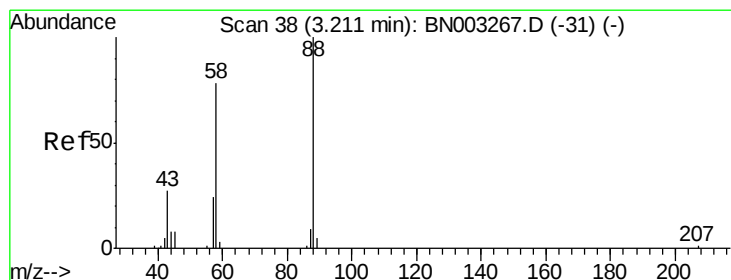
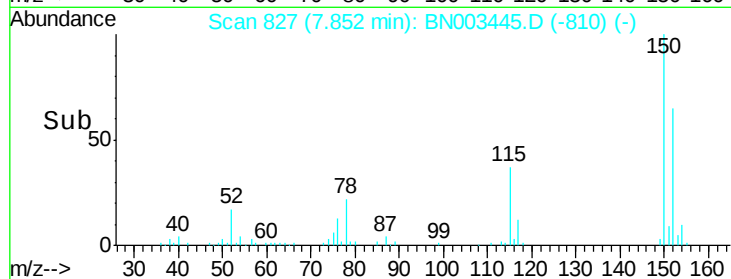
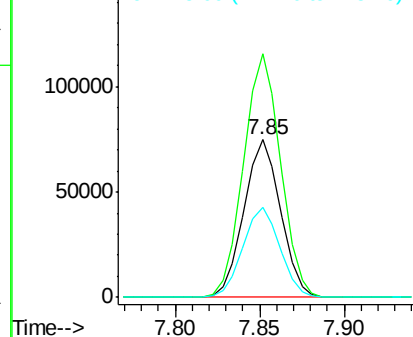
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.85 min Scan# 827  
Delta R.T. 0.00 min  
Lab File: BN003445.D  
Acq: 06 Nov 2018 23:14

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:152 Resp: 113099  
Ion Ratio Lower Upper  
152 100  
150 154.4 123.8 185.8  
115 57.0 45.9 68.9



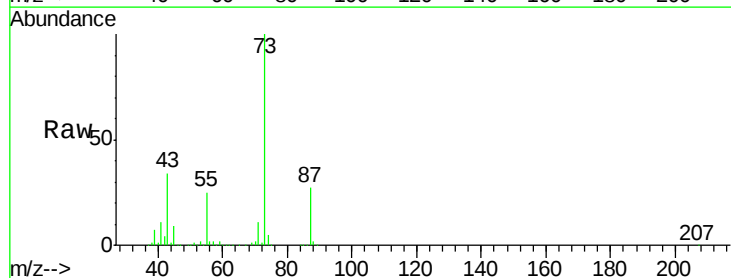
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



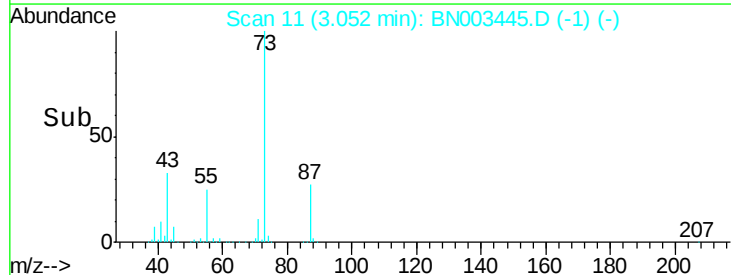
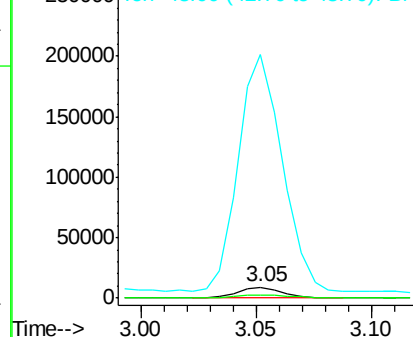
#2

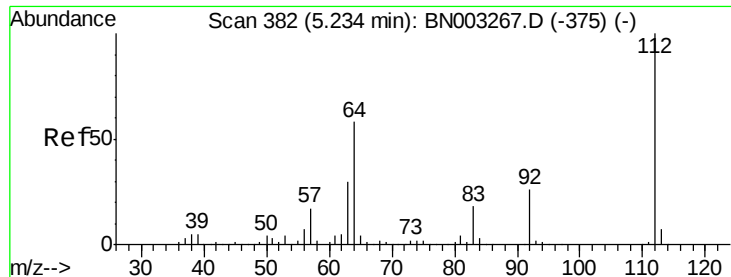
1,4-Dioxane  
Concen: 3.87 ng  
RT: 3.05 min Scan# 11  
Delta R.T. -0.28 min  
Lab File: BN003445.D  
Acq: 06 Nov 2018 23:14

Tgt Ion: 88 Resp: 11945  
Ion Ratio Lower Upper  
88 100  
58 27.0 61.1 91.7#  
43 2253.0 22.2 33.4#



Abundance Ion 88.00 (87.70 to 88.70): BNC  
Ion 58.00 (57.70 to 58.70): BNC  
Ion 43.00 (42.70 to 43.70): BNC





#5

2-Fluorophenol

Concen: 118.59 ng

RT: 5.42 min Scan# 414

Delta R.T. 0.01 min

Lab File: BN003445.D

Acq: 06 Nov 2018 23:14

Instrument :

BNA\_N

ClientSampleId :

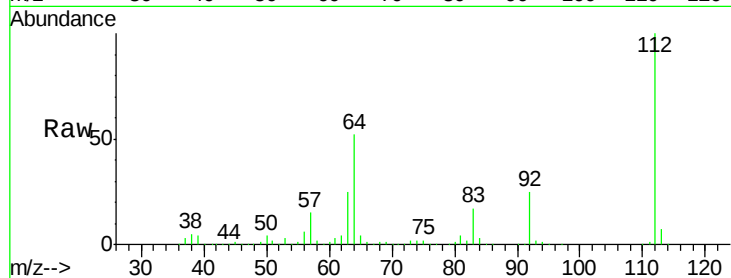
Tot Ion:112 Resp: 770036

Ion Ratio Lower Upper

112 100

64 51.7 46.6 69.8

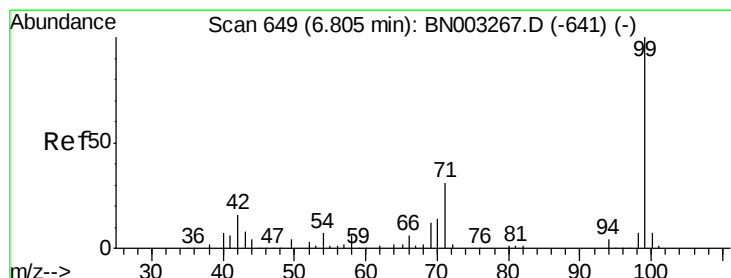
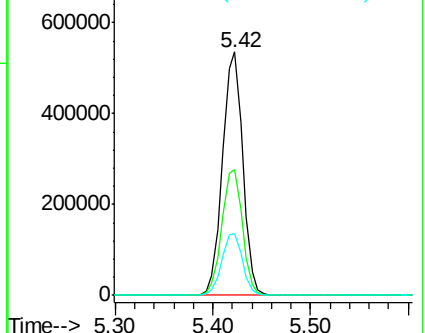
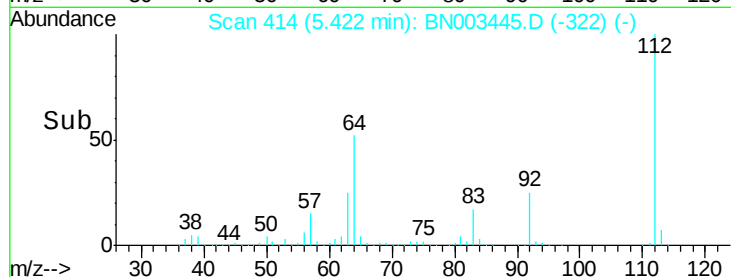
63 25.3 23.8 35.8



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): B

Ion 63.00 (62.70 to 63.70): B



#7

Phenol-d6

Concen: 98.88 ng

RT: 7.01 min Scan# 684

Delta R.T. 0.00 min

Lab File: BN003445.D

Acq: 06 Nov 2018 23:14

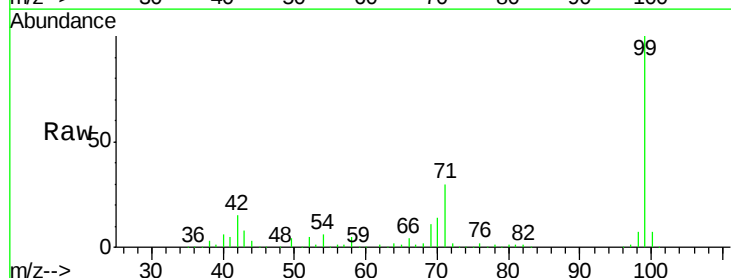
Tgt Ion: 99 Resp: 913001

Ion Ratio Lower Upper

99 100

42 14.7 13.0 19.6

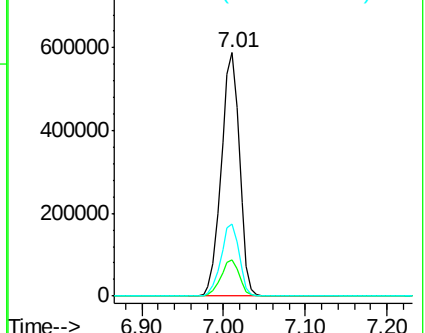
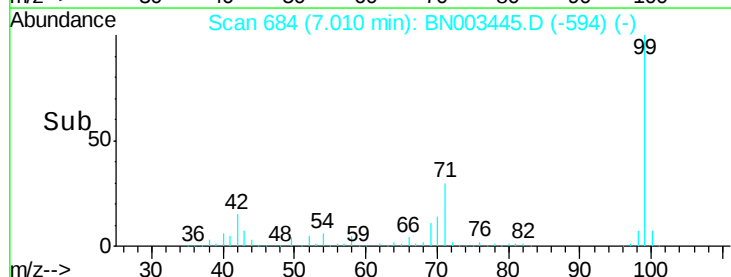
71 29.7 24.5 36.7

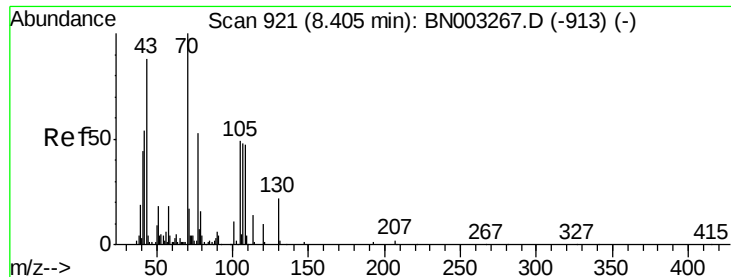


Abundance Ion 99.00 (98.70 to 99.70): B

Ion 42.00 (41.70 to 42.70): B

Ion 71.00 (70.70 to 71.70): B

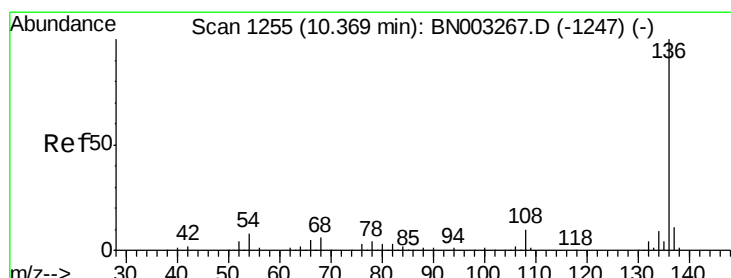
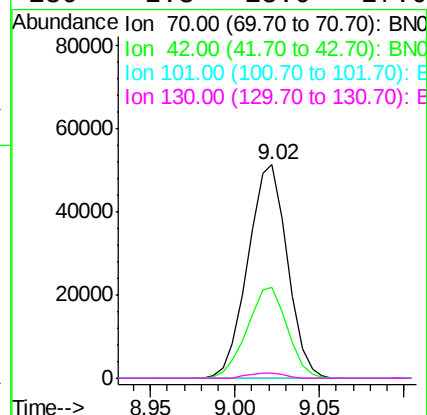
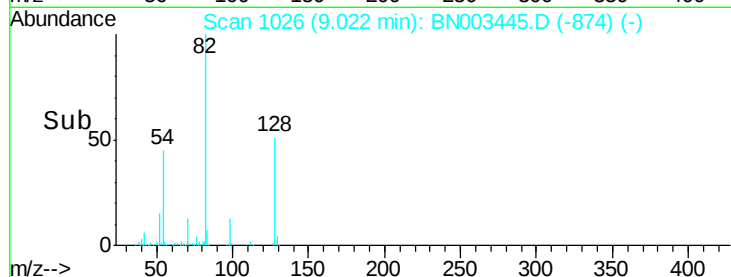
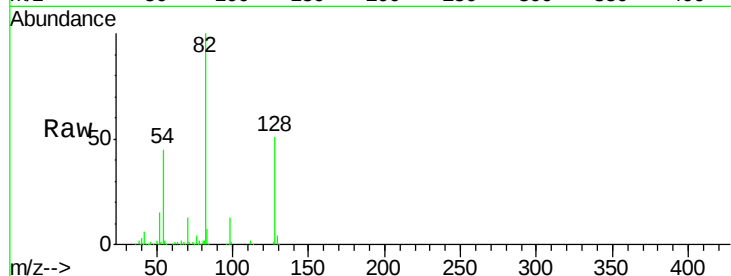




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.53 ng  
RT: 9.02 min Scan# 1026  
Delta R.T. 0.36 min  
Lab File: BN003445.D  
Acq: 06 Nov 2018 23:14

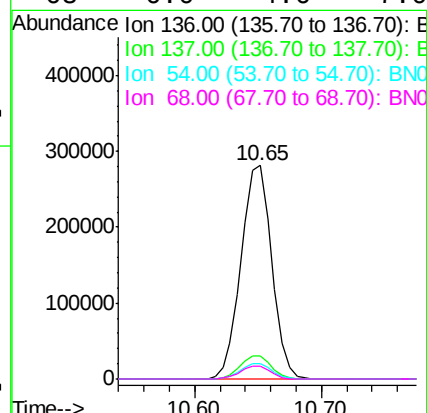
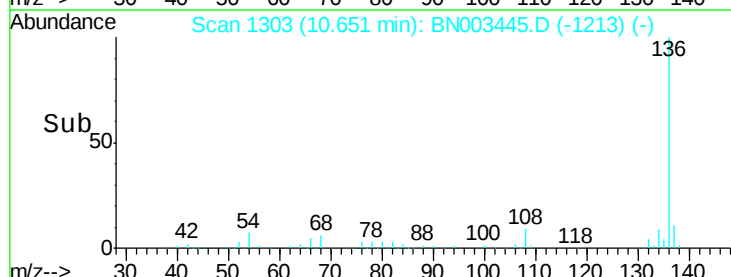
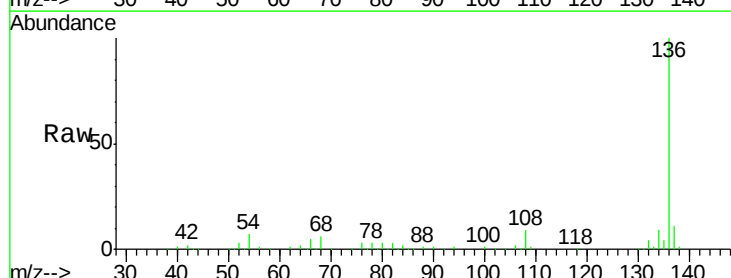
Instrument :  
BNA\_N  
ClientSampleId :

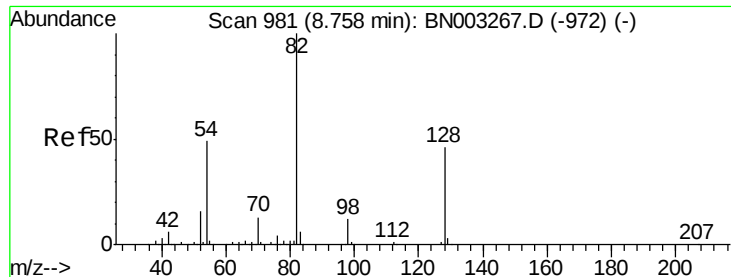
Tot Ion: 70 Resp: 83425  
Ion Ratio Lower Upper  
70 100  
42 42.7 43.5 65.3#  
101 0.0 8.6 12.8#  
130 2.3 18.0 27.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.65 min Scan# 1303  
Delta R.T. 0.00 min  
Lab File: BN003445.D  
Acq: 06 Nov 2018 23:14

Tgt Ion: 136 Resp: 472346  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.7 13.1  
54 6.9 6.6 10.0  
68 6.0 4.6 7.0

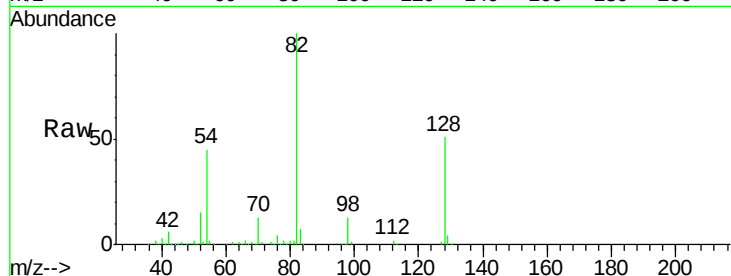




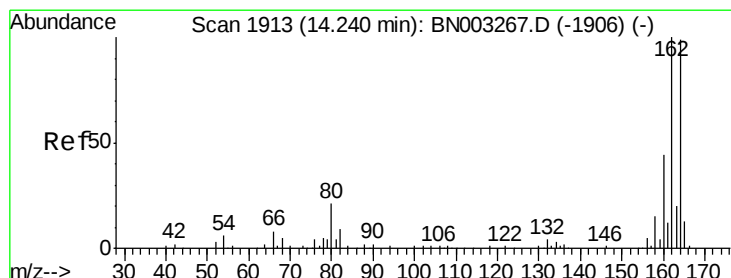
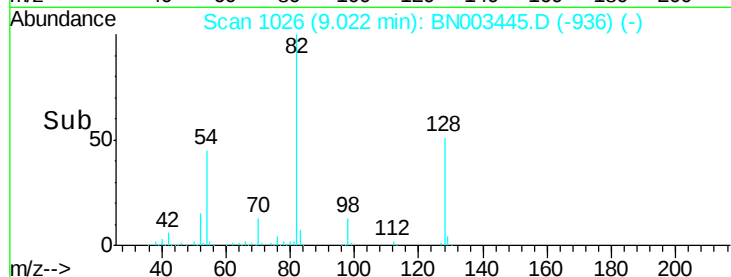
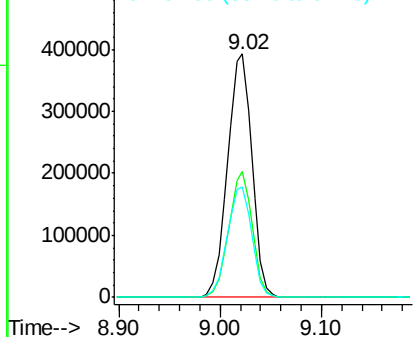
#23  
Nitrobenzene-d5  
Concen: 79.36 ng  
RT: 9.02 min Scan# 1026  
Delta R.T. 0.00 min  
Lab File: BN003445.D  
Acq: 06 Nov 2018 23:14

Instrument :  
BNA\_N  
ClientSampleId :

| Tot Ion   | 82   | Resp  | 653605 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 51.5 | 37.1  | 55.7   |
| 54        | 45.2 | 39.4  | 59.2   |

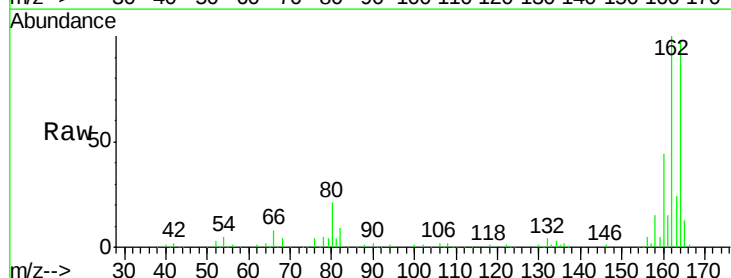


Abundance Ion 82.00 (81.70 to 82.70): BN0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BN0

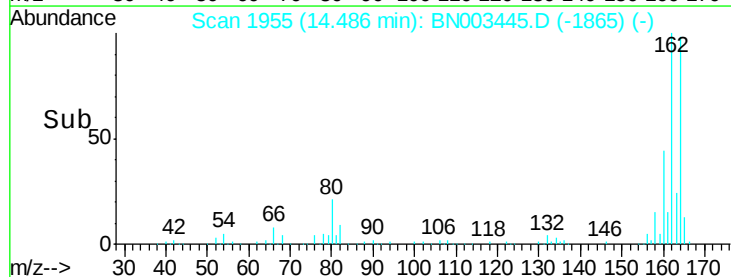
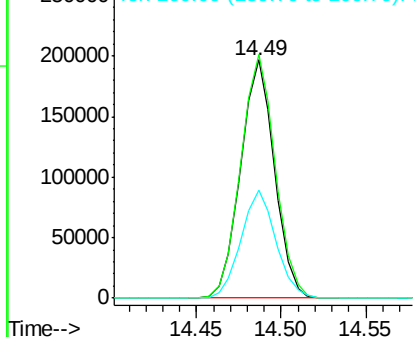


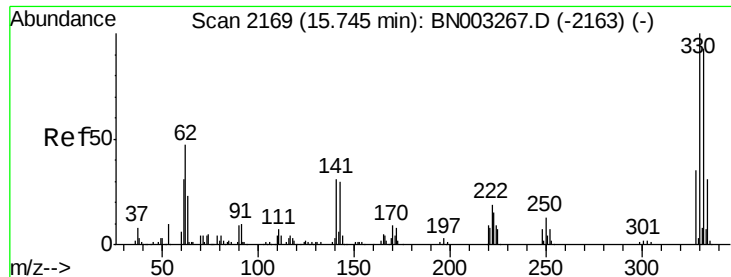
#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.49 min Scan# 1955  
Delta R.T. 0.00 min  
Lab File: BN003445.D  
Acq: 06 Nov 2018 23:14

| Tgt Ion   | 164   | Resp  | 274524 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 102.3 | 80.8  | 121.2  |
| 160       | 45.1  | 35.5  | 53.3   |



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

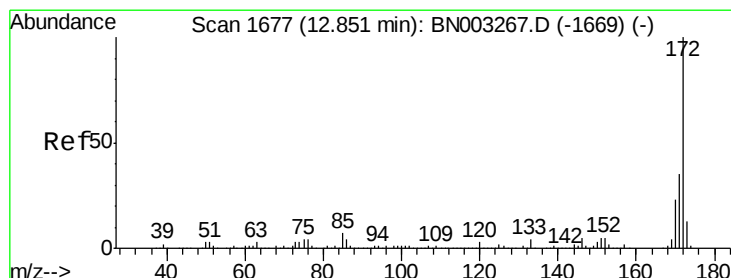
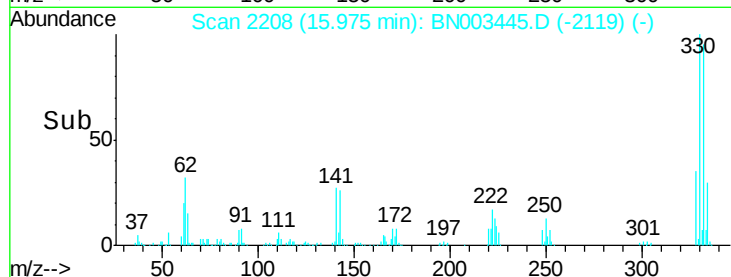
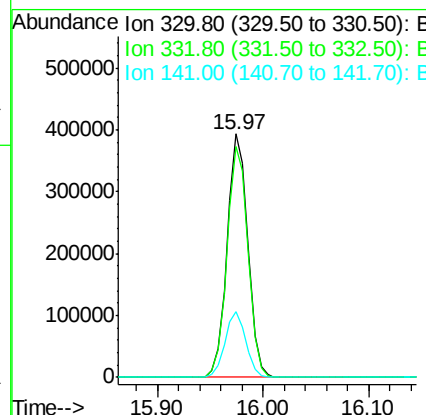
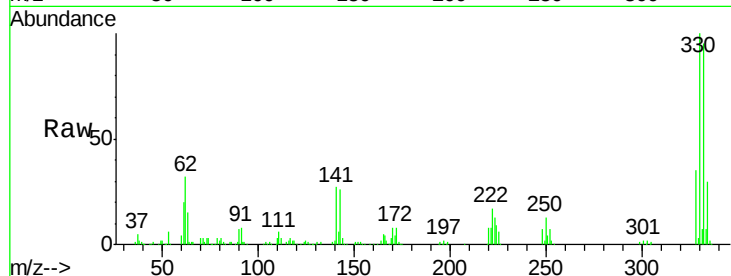




#42  
 2,4,6-Tribromophenol  
 Concen: 144.69 ng  
 RT: 15.97 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

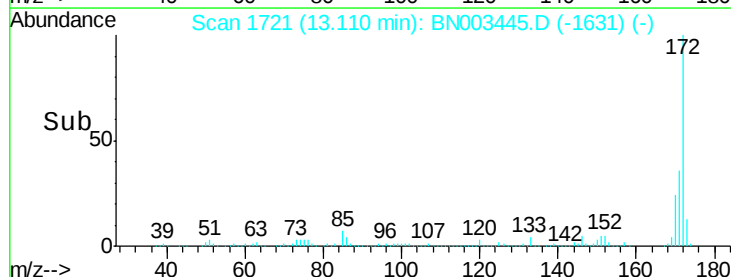
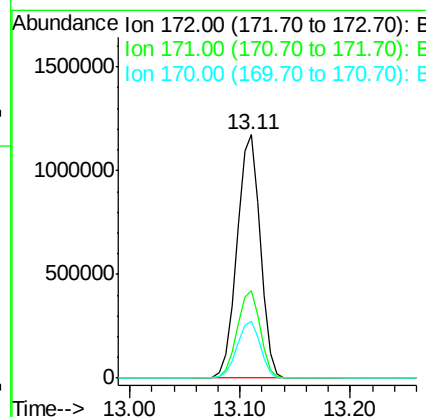
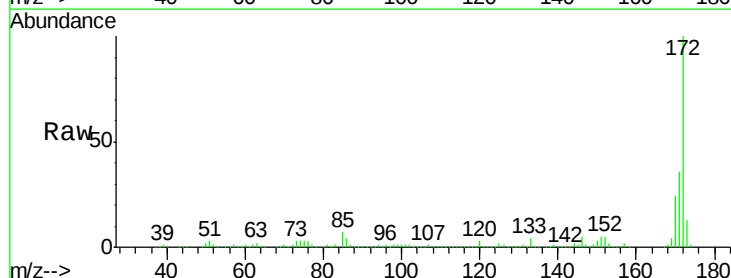
Instrument :  
 BNA\_N  
 ClientSampled :

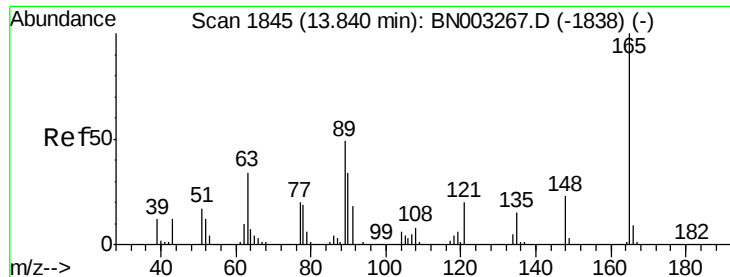
Tot Ion:330 Resp: 534862  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 76.6 114.8  
 141 27.1 24.5 36.7



#45  
 2-Fluorobiphenyl  
 Concen: 85.41 ng  
 RT: 13.11 min Scan# 1721  
 Delta R.T. 0.00 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

Tgt Ion:172 Resp: 1728598  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 28.2 42.4  
 170 23.5 18.4 27.6

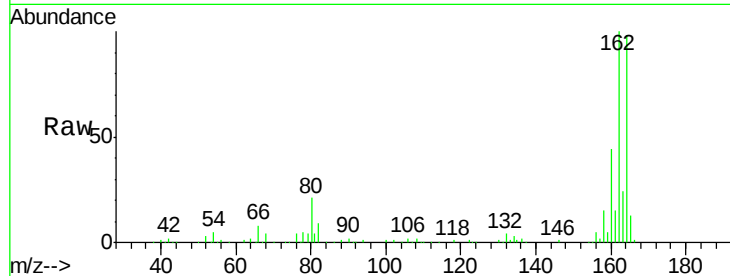




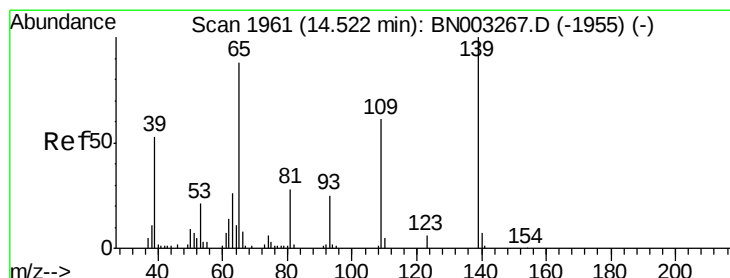
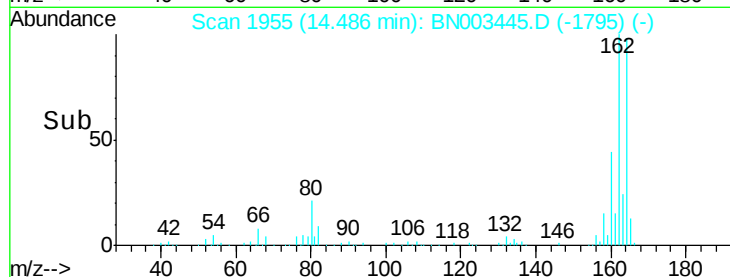
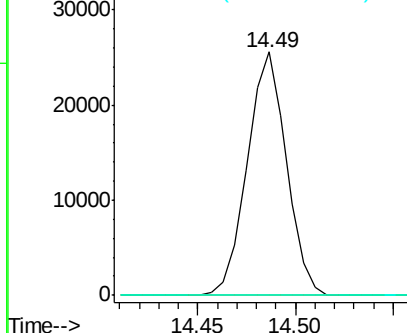
#51  
 2,6-Dinitrotoluene  
 Concen: 7.02 ng  
 RT: 14.49 min Scan# 1955  
 Delta R.T. 0.41 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

Instrument :  
 BNA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 39.2  | 58.8# |
| 89      | 0.0   | 38.9  | 58.3# |

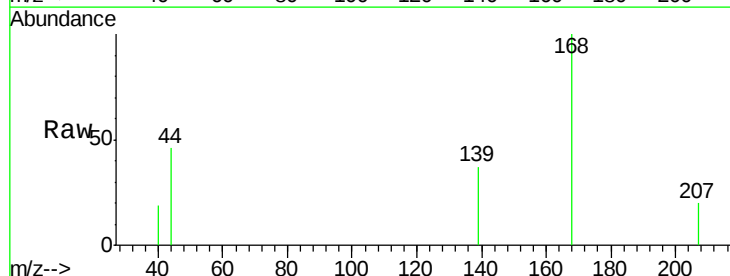


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BNC  
 Ion 89.00 (88.70 to 89.70): BNC

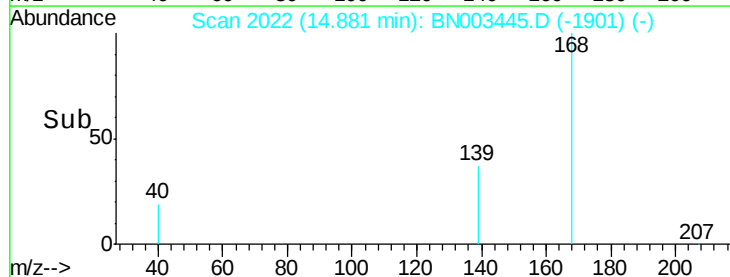
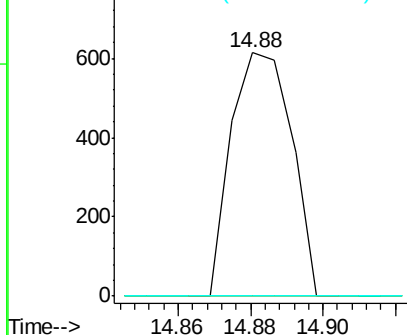


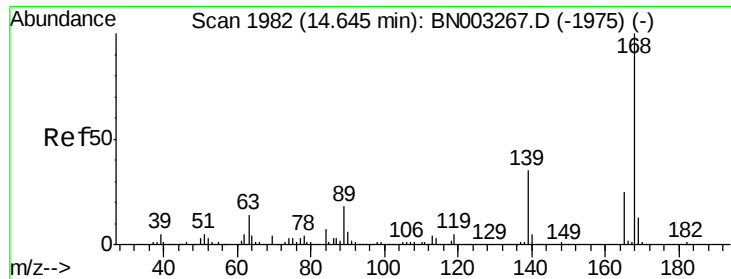
#56  
 4-Nitrophenol  
 Concen: 5.59 ng  
 RT: 14.88 min Scan# 2022  
 Delta R.T. 0.18 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 0.0   | 40.7  | 80.7#  |
| 65      | 0.0   | 68.0  | 108.0# |



Abundance Ion 139.00 (138.70 to 139.70): E  
 Ion 109.00 (108.70 to 109.70): E  
 Ion 65.00 (64.70 to 65.70): BNC

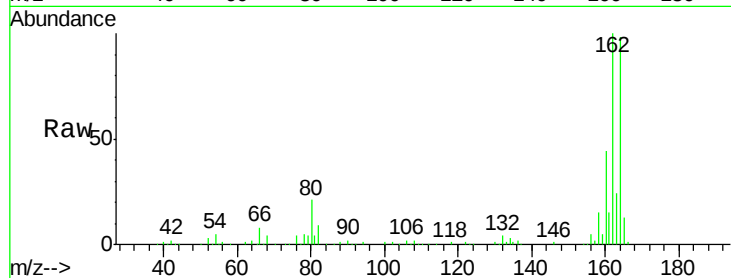




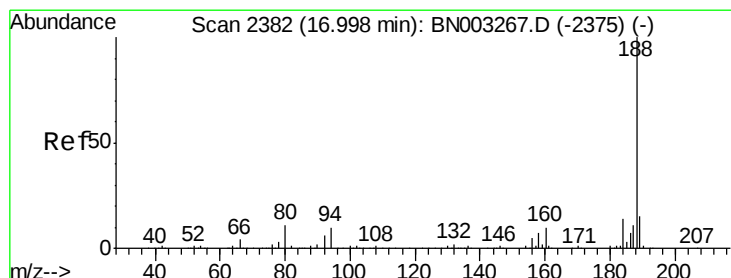
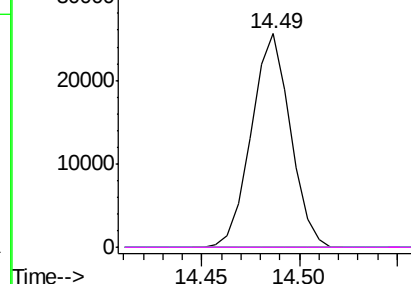
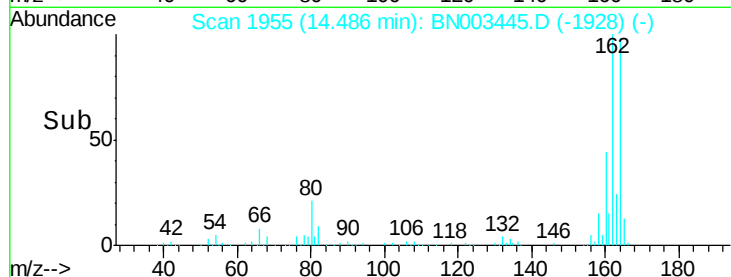
#57  
 2,4-Dinitrotoluene  
 Concen: 5.18 ng  
 RT: 14.49 min Scan# 1955  
 Delta R.T. -0.37 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:165 Resp: 35359  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 45.8 68.6#  
 89 0.0 58.7 88.1#  
 182 0.0 2.3 3.5#

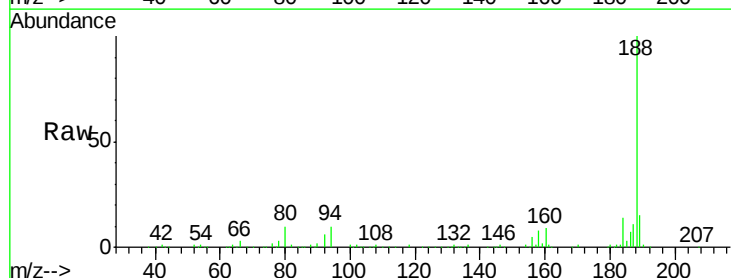


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BNC  
 Ion 89.00 (88.70 to 89.70): BNC  
 Ion 182.00 (181.70 to 182.70): E

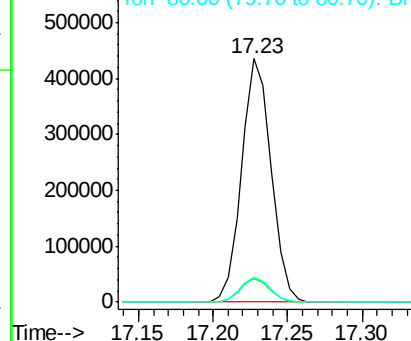
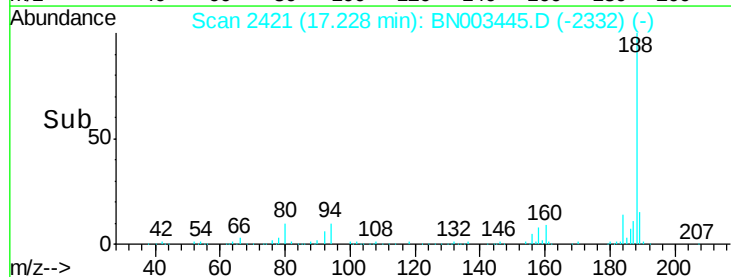


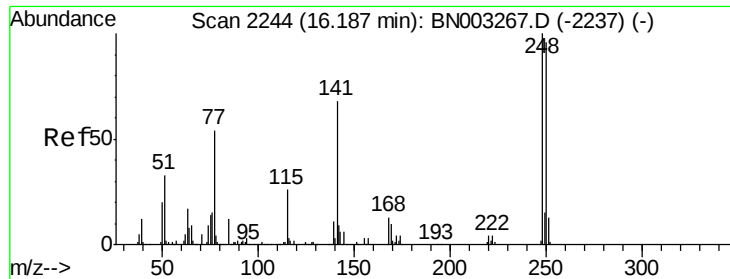
#64  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.23 min Scan# 2421  
 Delta R.T. -0.01 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

Tgt Ion:188 Resp: 596809  
 Ion Ratio Lower Upper  
 188 100  
 94 9.7 8.1 12.1  
 80 10.4 8.6 13.0



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

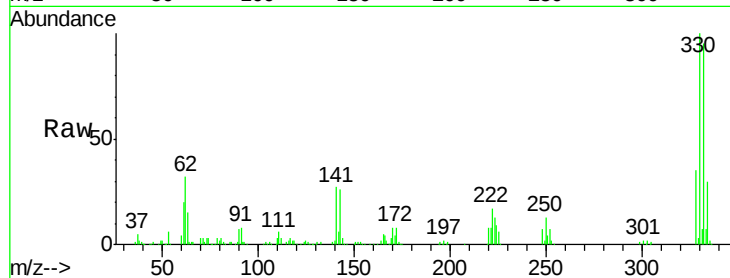




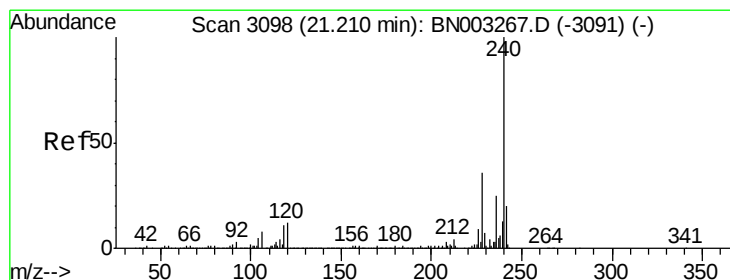
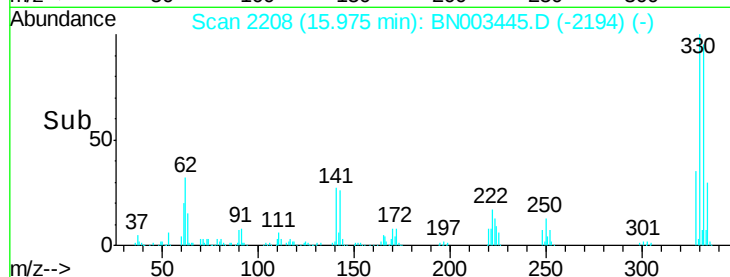
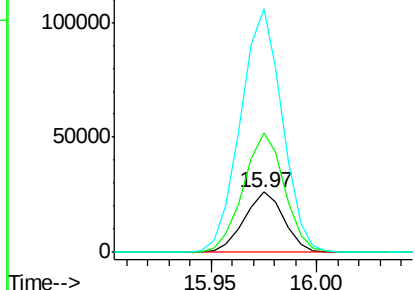
#67  
 4-Bromophenyl-phenylether  
 Concen: 5.14 ng  
 RT: 15.97 min Scan# 2208  
 Delta R.T. -0.45 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:248 Resp: 34555  
 Ion Ratio Lower Upper  
 248 100  
 250 198.1 76.4 114.6#  
 141 402.8 54.2 81.4#

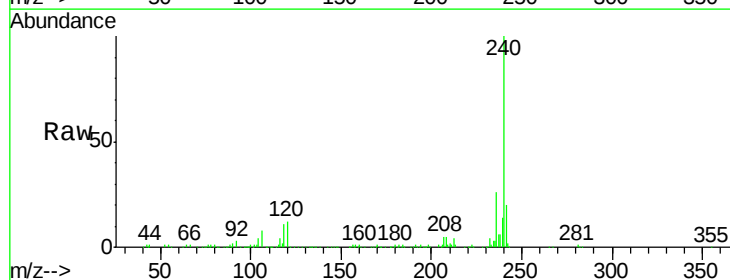


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

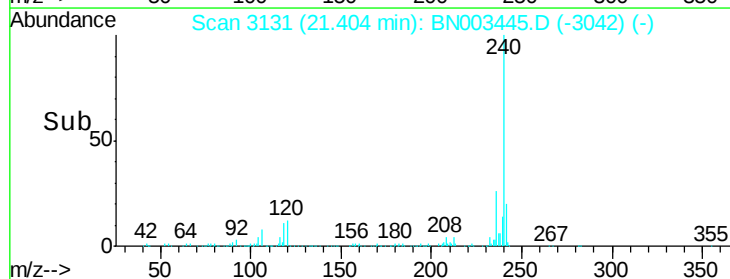
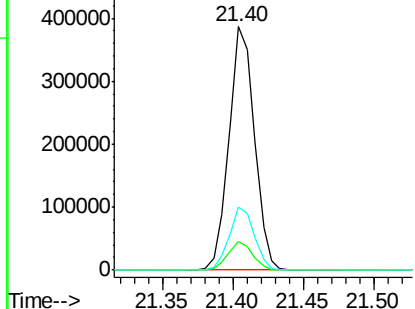


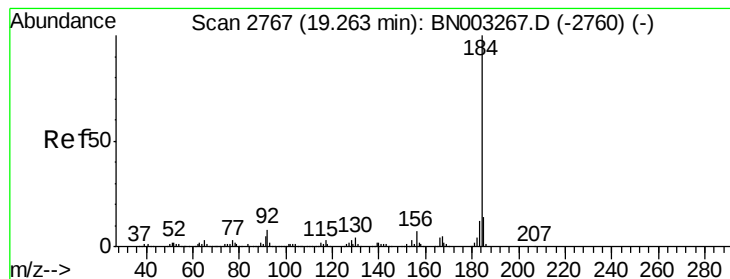
#76  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 21.40 min Scan# 3131  
 Delta R.T. -0.01 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

Tgt Ion:240 Resp: 485905  
 Ion Ratio Lower Upper  
 240 100  
 120 11.8 9.4 14.0  
 236 25.7 20.3 30.5



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.02 ng

RT: 19.85 min Scan# 2866

Delta R.T. 0.37 min

Lab File: BN003445.D

Acq: 06 Nov 2018 23:14

Instrument :

BNA\_N

ClientSampleId :

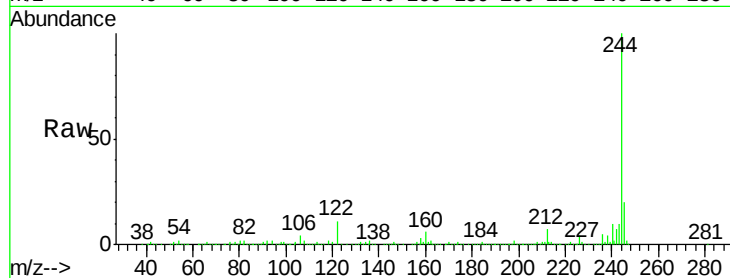
Tot Ion:184 Resp: 28728

Ion Ratio Lower Upper

184 100

185 16.6 11.5 17.3

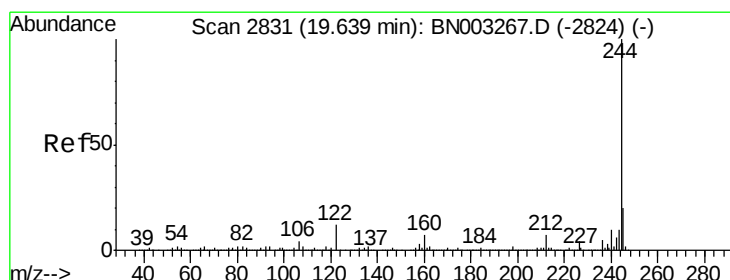
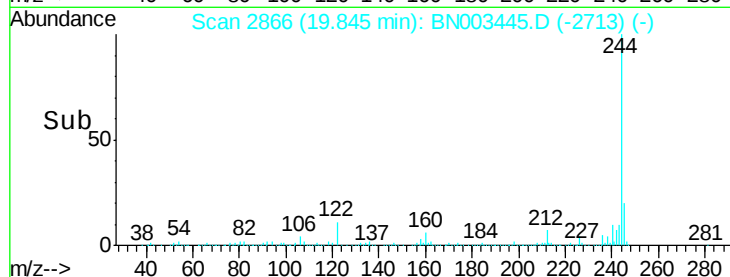
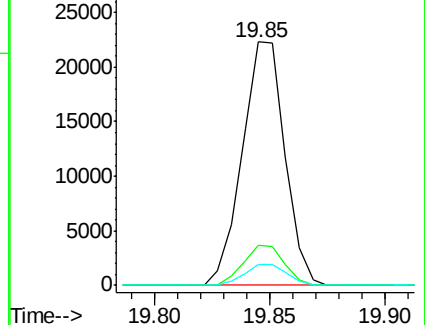
183 8.4 9.4 14.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 104.47 ng

RT: 19.85 min Scan# 2866

Delta R.T. -0.01 min

Lab File: BN003445.D

Acq: 06 Nov 2018 23:14

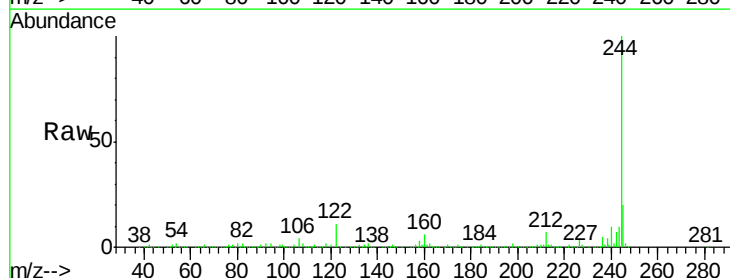
Tgt Ion:244 Resp: 2373616

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

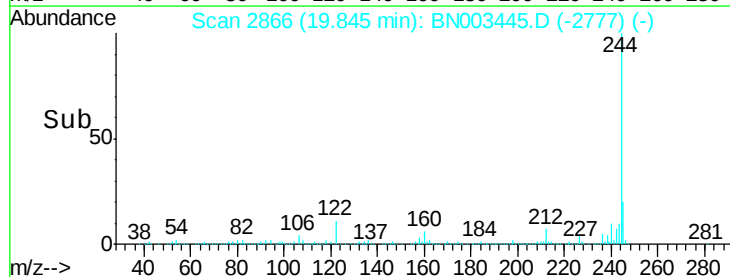
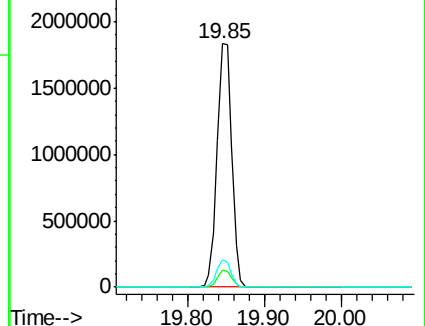
122 11.2 9.4 14.2

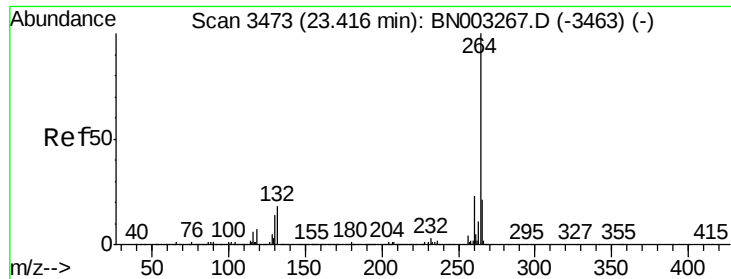


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

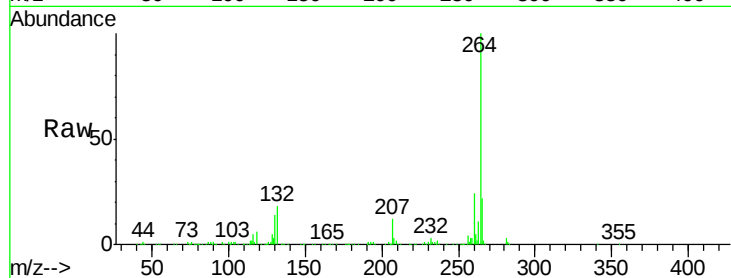




#87  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 23.72 min Scan# 3525  
 Delta R.T. -0.01 min  
 Lab File: BN003445.D  
 Acq: 06 Nov 2018 23:14

Instrument :  
 BNA\_N  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 484161 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.5  | 18.5  | 27.7   |
| 265      | 21.6  | 16.6  | 25.0   |



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

