

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN072518\  
 Data File : BN002145.D  
 Acq On : 25 Jul 2018 20:40  
 Operator : JU/SJ  
 Sample : J3762-01  
 Misc : LOD 5 PPM  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT3-2018

Quant Time: Jul 26 05:50:23 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-BN072518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 25 20:08:02 2018  
 Response via : Initial Calibration

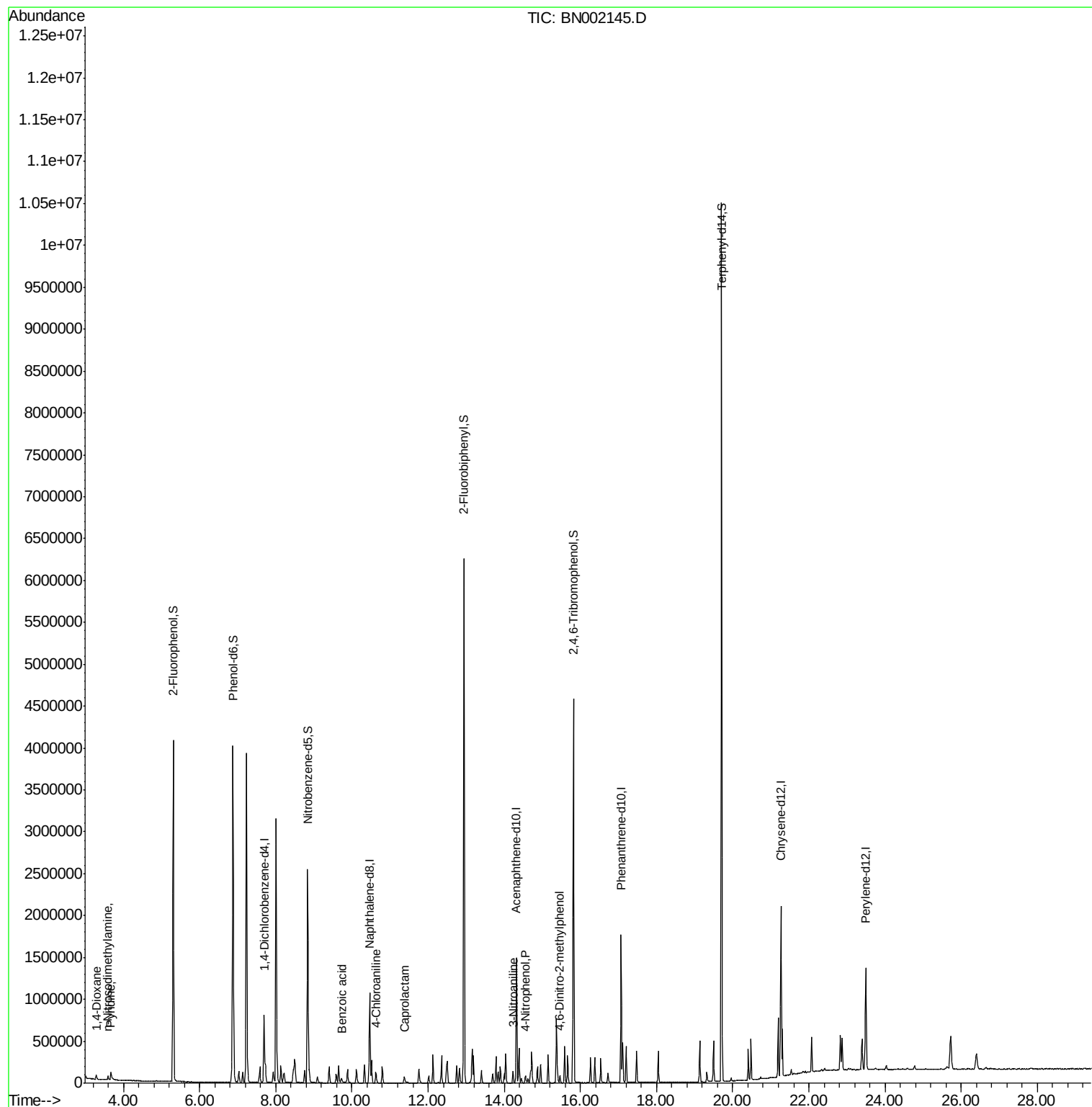
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.69  | 152  | 209176   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.46 | 136  | 849530   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.32 | 164  | 483768   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.07 | 188  | 1011725  | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.27 | 240  | 895866   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 23.49 | 264  | 848925   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.31  | 112  | 1617587  | 124.50 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.88  | 99   | 2172459  | 119.15 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.84  | 82   | 1433345  | 86.53  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 15.82 | 330  | 789714   | 125.71 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 12.94 | 172  | 3186263  | 85.79  | ng    | 0.00     |
| 78) Terphenyl-d14              | 19.71 | 244  | 4625111  | 107.68 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.29  | 88   | 24910    | 5.107  | ng    | # 82     |
| 3) Pyridine                    | 3.68  | 79   | 60073    | 4.252  | ng    | # 71     |
| 4) n-Nitrosodimethylamine      | 3.59  | 42   | 24889    | 4.107  | ng    | # 76     |
| 32) Benzoic acid               | 9.73  | 122  | 23564    | 2.408  | ng    | 89       |
| 33) 4-Chloroaniline            | 10.63 | 127  | 67758    | 3.552  | ng    | 95       |
| 35) Caprolactam                | 11.38 | 113  | 16176    | 3.524  | ng    | # 58     |
| 52) 3-Nitroaniline             | 14.23 | 138  | 32762    | 3.387  | ng    | # 82     |
| 55) 4-Nitrophenol              | 14.56 | 139  | 26589    | 3.580  | ng    | 96       |
| 64) 4,6-Dinitro-2-methylphenol | 15.46 | 198  | 21569    | 3.158  | ng    | 94       |

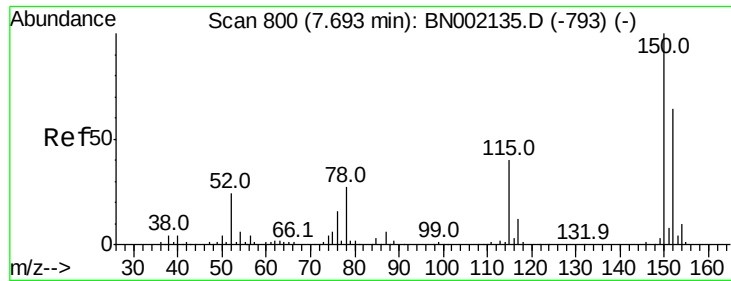
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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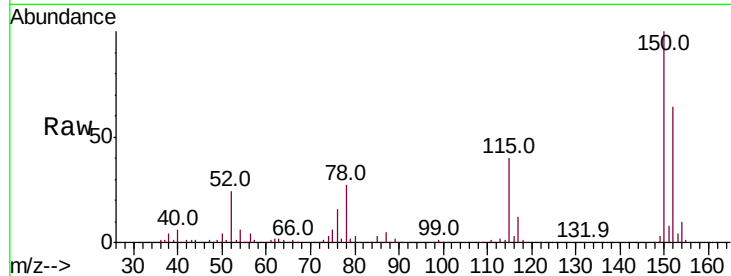


#1

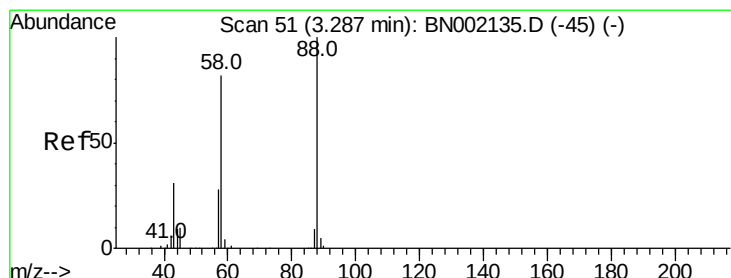
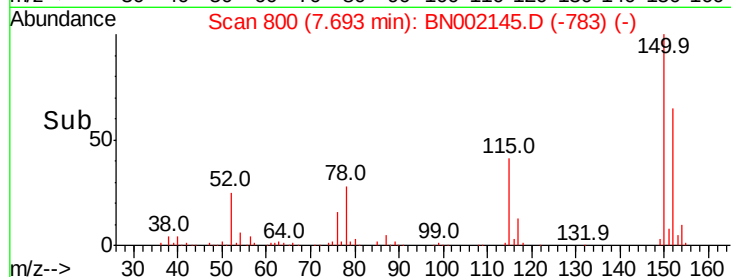
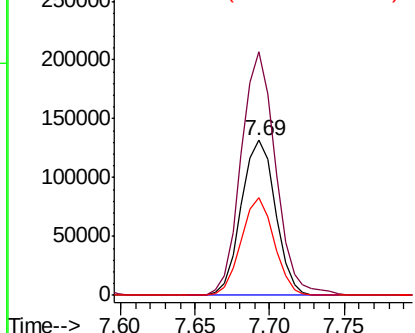
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.69 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

Instrument :  
BNA\_N  
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LOD-MDL-SOIL-01-QT3-2018

Tot Ion:152 Resp: 209176  
Ion Ratio Lower Upper  
152 100  
150 157.0 126.6 189.8  
115 62.7 53.0 79.4



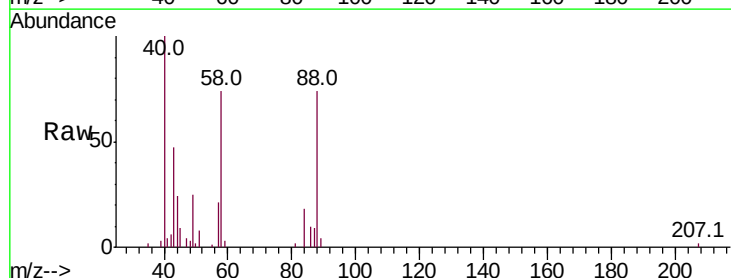
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



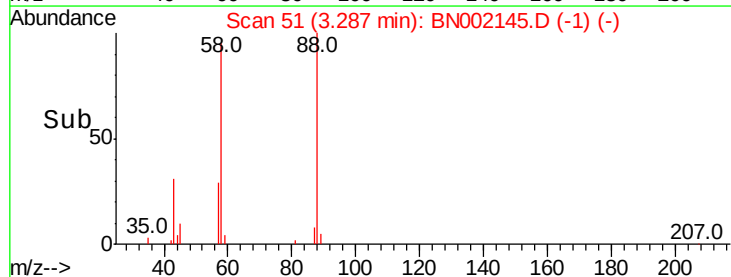
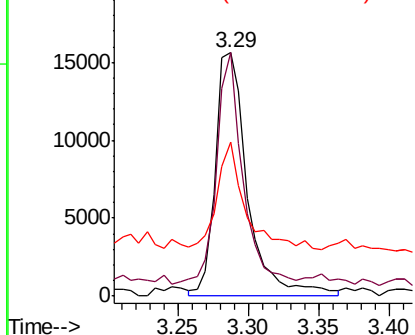
#2

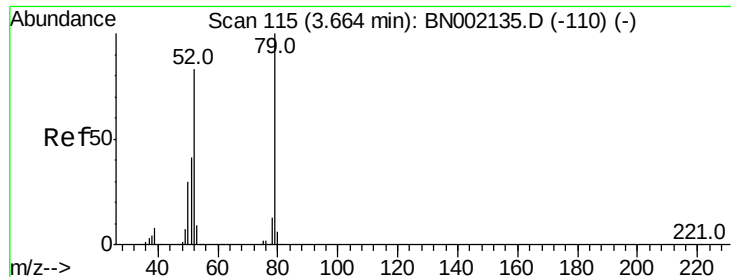
1,4-Dioxane  
Concen: 5.107 ng  
RT: 3.29 min Scan# 51  
Delta R.T. 0.00 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

Tgt Ion: 88 Resp: 24910  
Ion Ratio Lower Upper  
88 100  
58 76.8 52.0 78.0  
43 38.1 20.0 30.0#



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





#3

Pvridine

Concen: 4.252 ng

RT: 3.68 min Scan# 117

Delta R.T. 0.01 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

Instrument :

BNA\_N

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

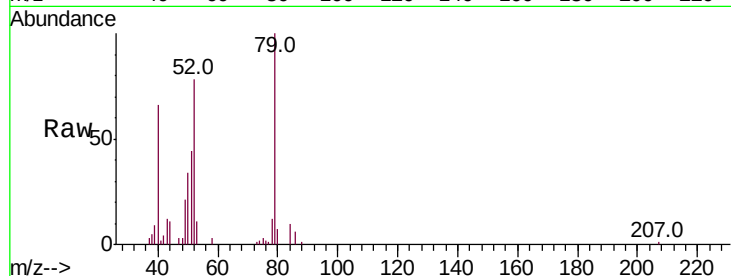
Tot Ion: 79 Resp: 60073

Ion Ratio Lower Upper

79 100

52 77.8 44.0 66.0#

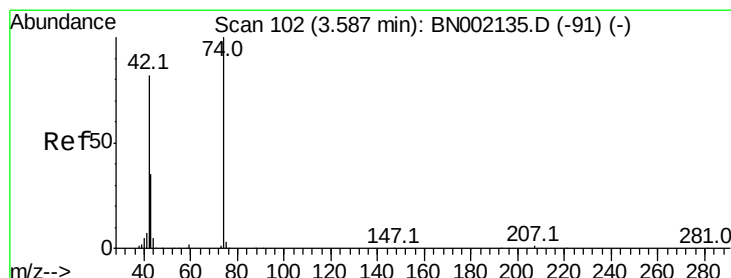
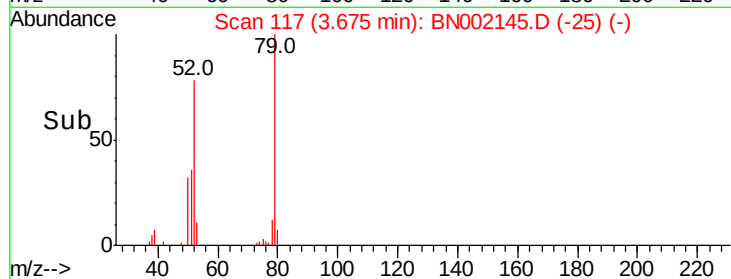
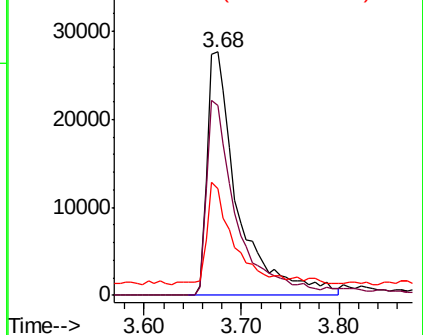
51 43.9 24.0 36.0#



Abundance Ion 79.00 (78.70 to 79.70): BNC

Ion 52.00 (51.70 to 52.70): BNC

Ion 51.00 (50.70 to 51.70): BNC



#4

n-Nitrosodimethylamine

Concen: 4.107 ng

RT: 3.59 min Scan# 102

Delta R.T. 0.00 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

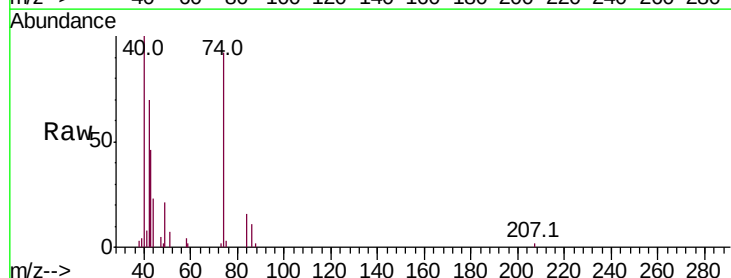
Tgt Ion: 42 Resp: 24889

Ion Ratio Lower Upper

42 100

74 130.1 128.0 192.0

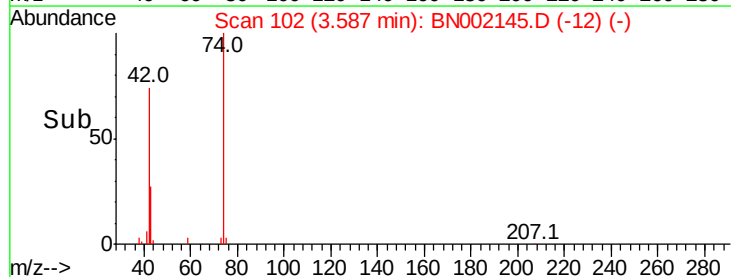
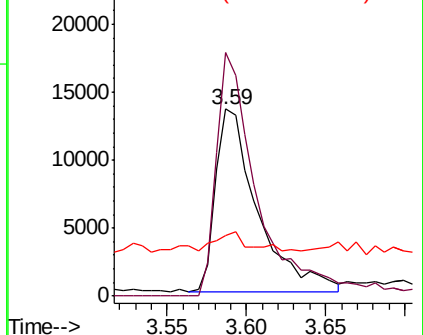
44 32.4 12.0 18.0#

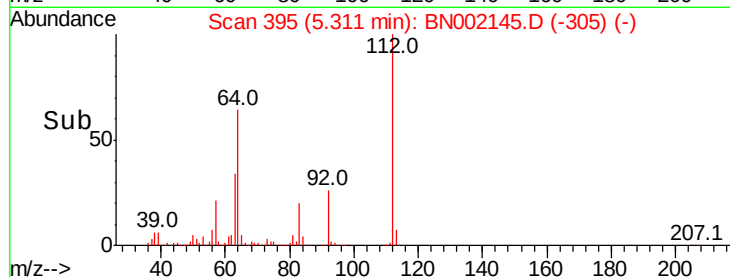
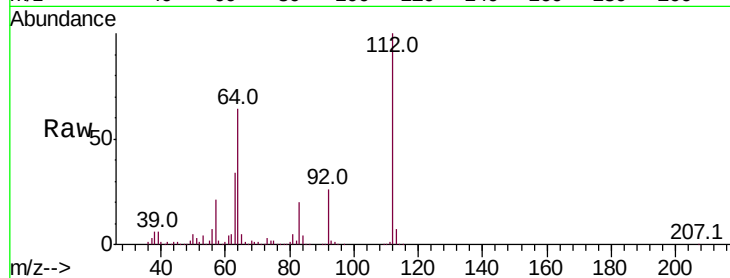
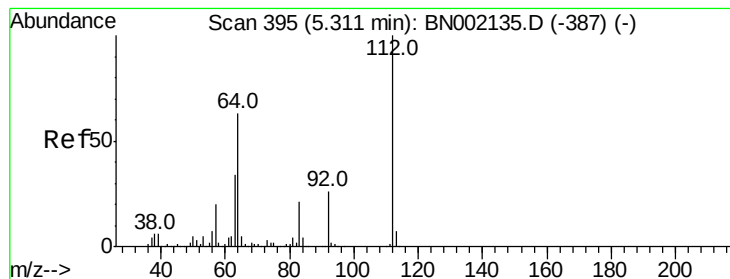


Abundance Ion 42.00 (41.70 to 42.70): BNC

Ion 74.00 (73.70 to 74.70): BNC

Ion 44.00 (43.70 to 44.70): BNC





#5

2-Fluorophenol

Concen: 124.498 ng

RT: 5.31 min Scan# 395

Delta R.T. 0.00 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

Instrument :

BNA\_N

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

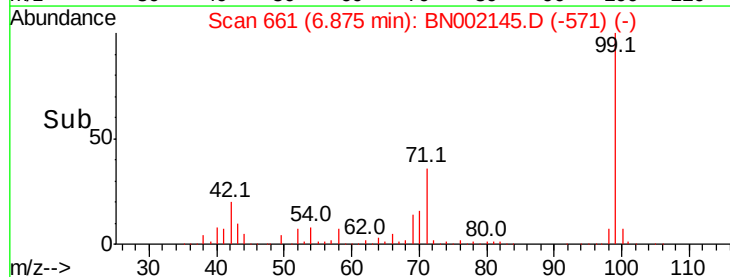
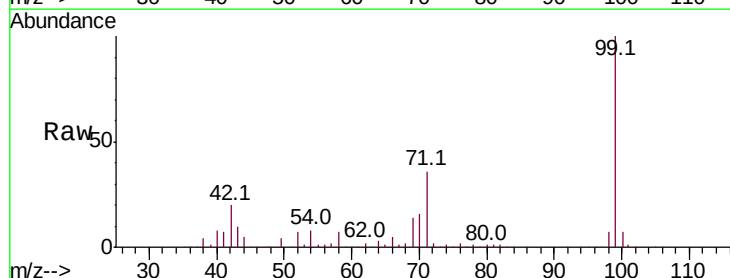
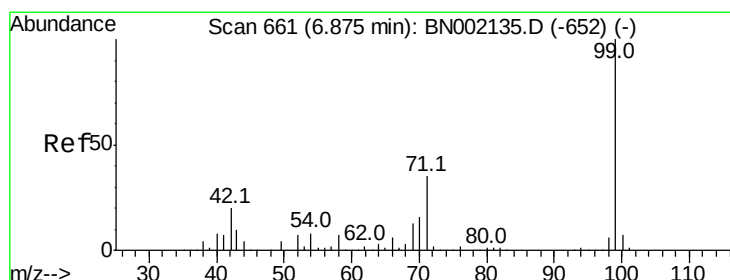
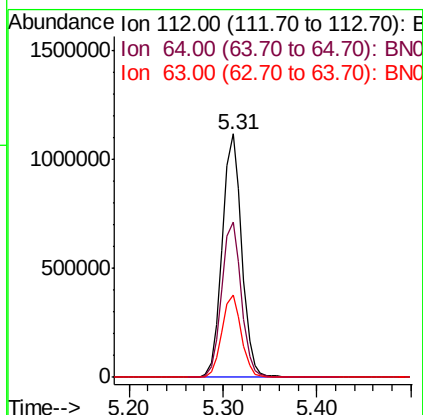
Tot Ion:112 Resp: 1617587

Ion Ratio Lower Upper

112 100

64 63.7 56.3 84.5

63 33.8 30.1 45.1



#7

Phenol-d6

Concen: 119.149 ng

RT: 6.88 min Scan# 661

Delta R.T. 0.00 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

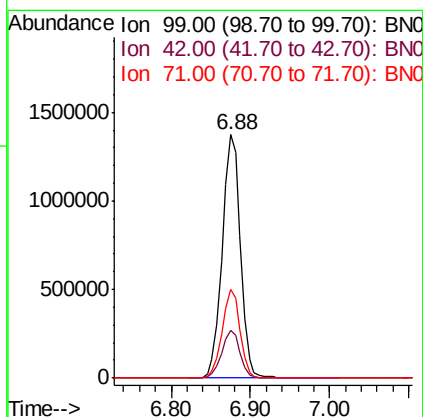
Tgt Ion: 99 Resp: 2172459

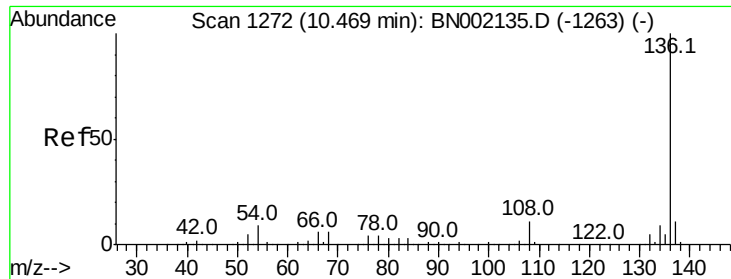
Ion Ratio Lower Upper

99 100

42 19.5 14.1 21.1

71 36.2 26.1 39.1

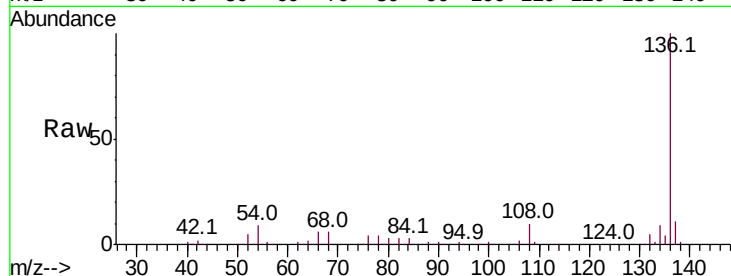




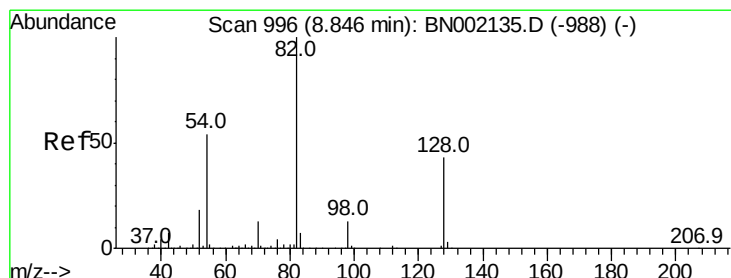
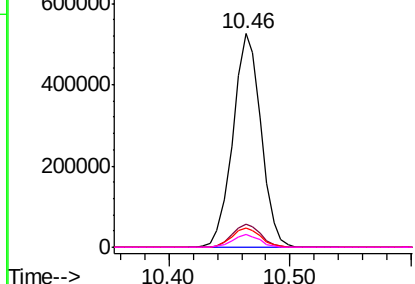
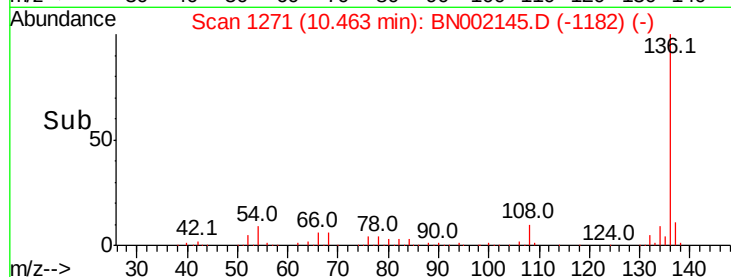
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.46 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

Instrument :  
BNA\_N  
ClientSampleId :  
LOD-MDL-SOIL-01-QT3-2018

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 849530 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 9.2   | 13.8   |
| 54       | 9.2   | 10.3  | 15.5#  |
| 68       | 6.0   | 4.5   | 6.7    |

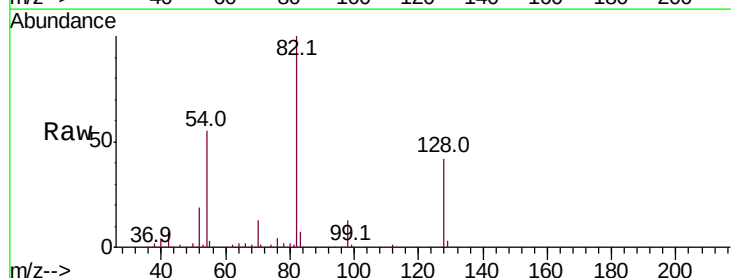


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BNC  
Ion 68.00 (67.70 to 68.70): BNC

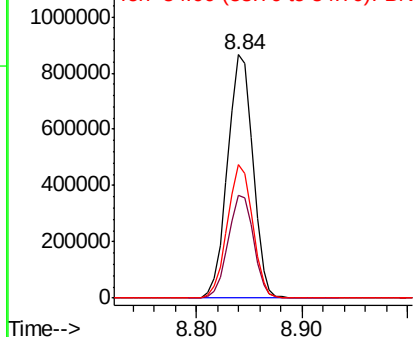
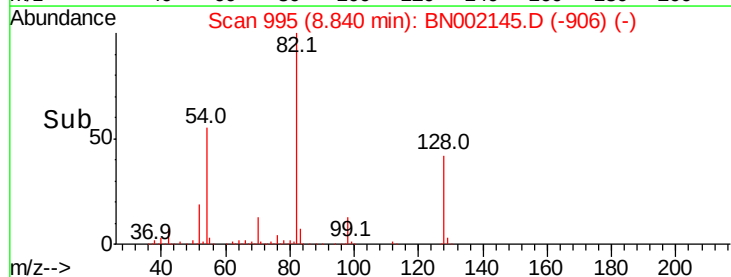


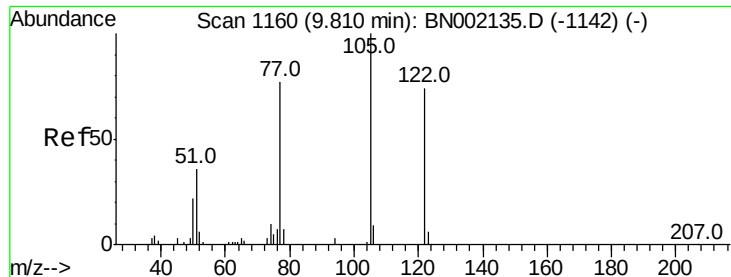
#23  
Nitrobenzene-d5  
Concen: 86.526 ng  
RT: 8.84 min Scan# 995  
Delta R.T. -0.01 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1433345 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 42.3  | 29.7  | 44.5    |
| 54       | 54.8  | 43.1  | 64.7    |



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

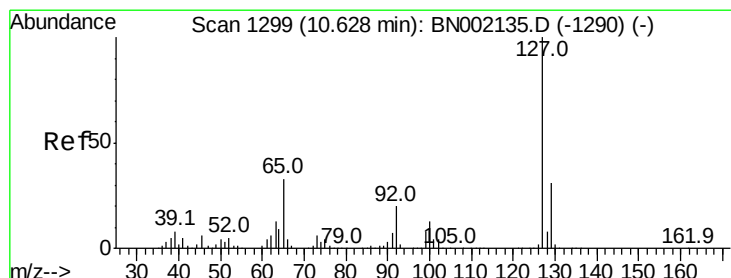
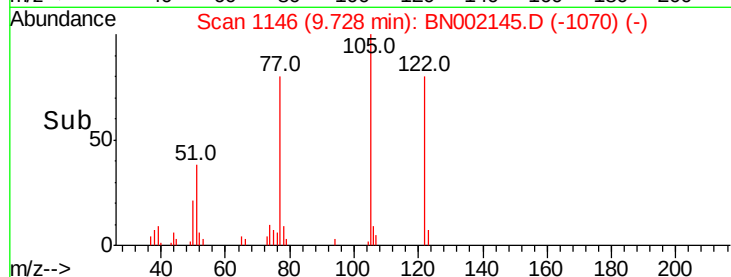
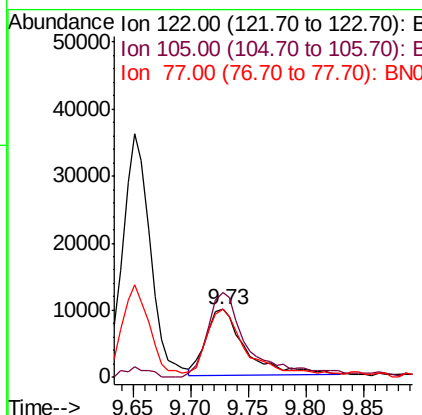
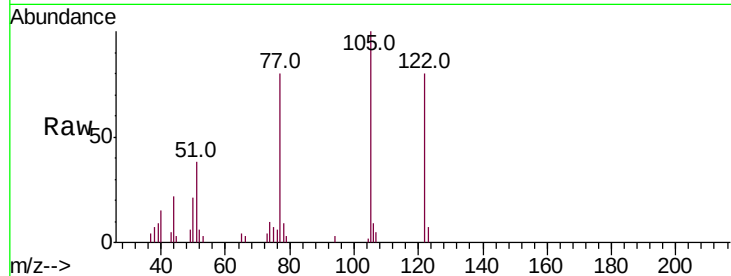




#32  
Benzoic acid  
Concen: 2.408 ng  
RT: 9.73 min Scan# 1146  
Delta R.T. -0.08 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

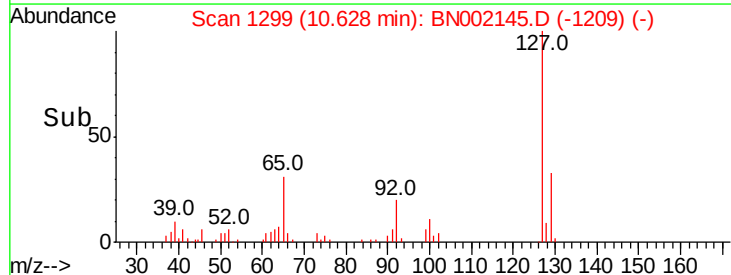
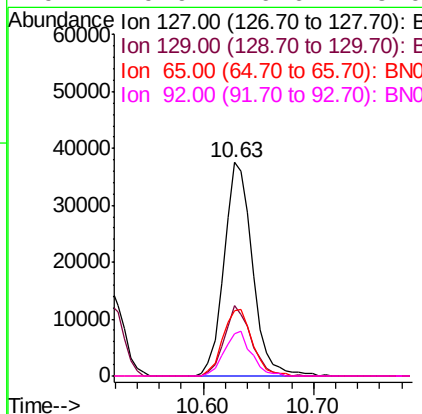
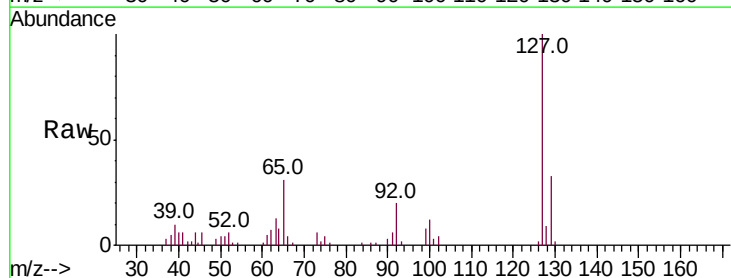
Instrument :  
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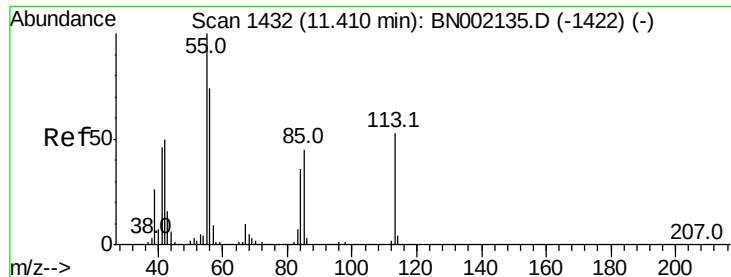
Tot Ion:122 Resp: 23564  
Ion Ratio Lower Upper  
122 100  
105 124.5 123.5 163.5  
77 99.7 85.7 125.7



#33  
4-Chloroaniline  
Concen: 3.552 ng  
RT: 10.63 min Scan# 1299  
Delta R.T. 0.00 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

Tgt Ion:127 Resp: 67758  
Ion Ratio Lower Upper  
127 100  
129 32.9 24.0 36.0  
65 30.5 27.0 40.4  
92 19.9 16.6 25.0





#35

Caprolactam

Concen: 3.524 ng

RT: 11.38 min Scan# 1427

Delta R.T. -0.03 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

Instrument :

BNA\_N

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

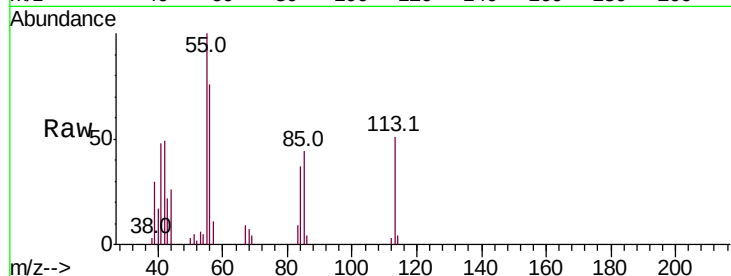
Tot Ion:113 Resp: 16176

Ion Ratio Lower Upper

113 100

55 197.0 120.0 160.0#

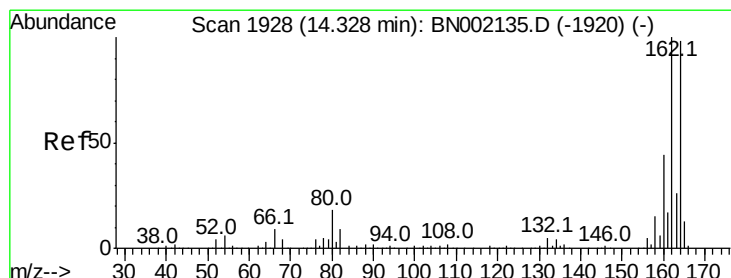
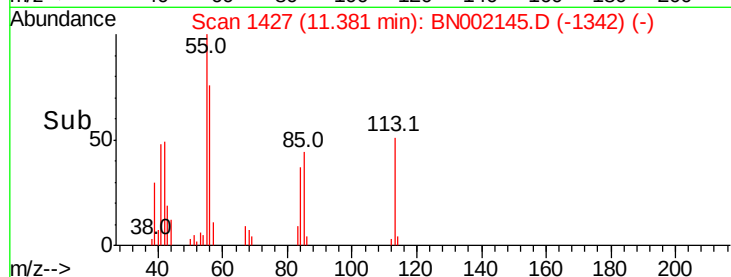
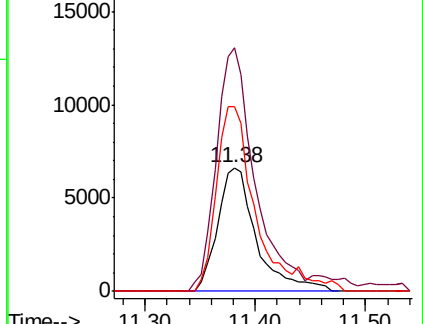
56 149.0 90.0 130.0#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNO

Ion 56.00 (55.70 to 56.70): BNO



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.32 min Scan# 1927

Delta R.T. -0.01 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

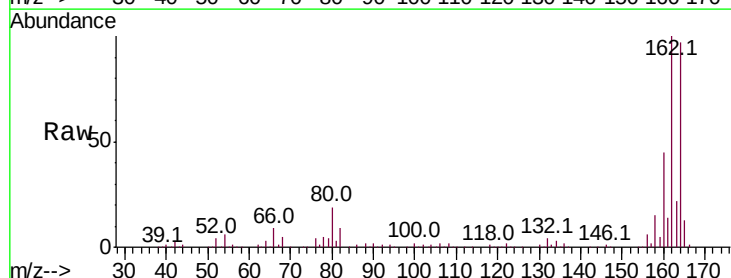
Tgt Ion:164 Resp: 483768

Ion Ratio Lower Upper

164 100

162 103.2 78.8 118.2

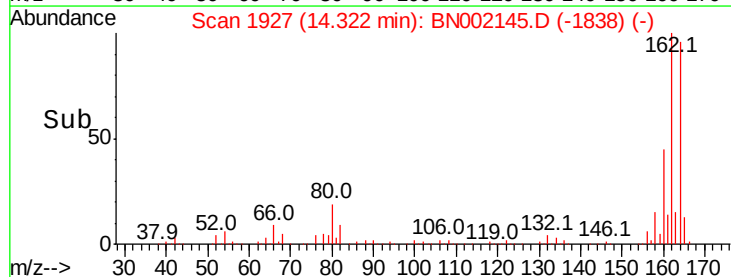
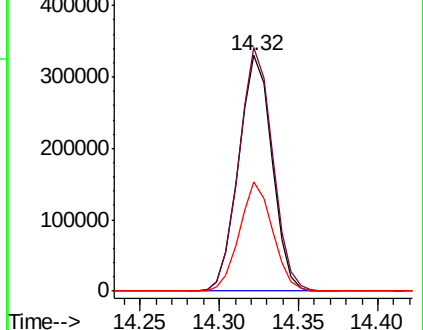
160 46.3 35.4 53.0



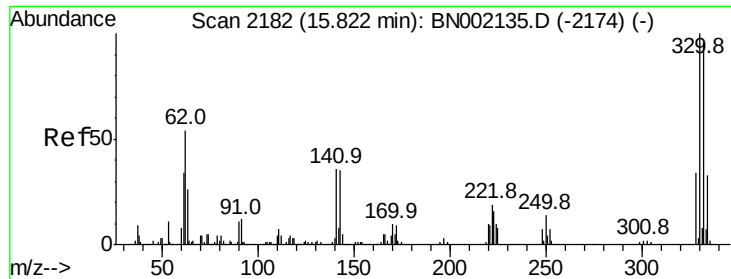
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



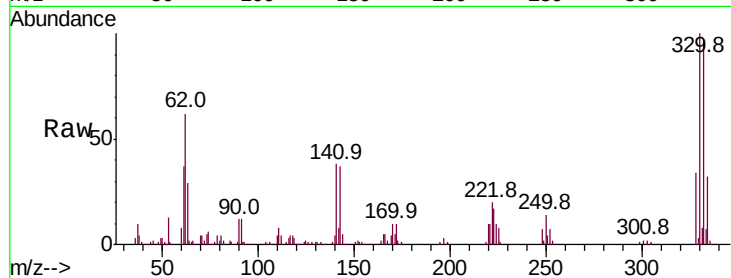




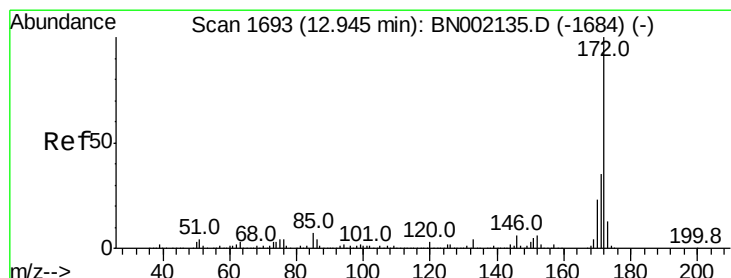
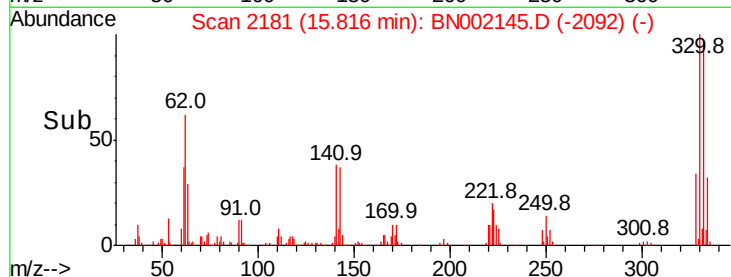
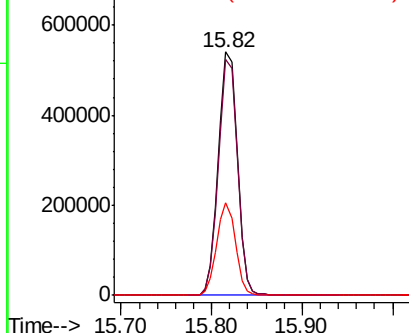
#41  
 2,4,6-Tribromophenol  
 Concen: 125.712 ng  
 RT: 15.82 min Scan# 2181  
 Delta R.T. -0.01 min  
 Lab File: BN002145.D  
 Acq: 25 Jul 2018 20:40

Instrument :  
 BNA\_N  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion:330 Resp: 789714  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 77.0 115.6  
 141 37.3 25.2 37.8

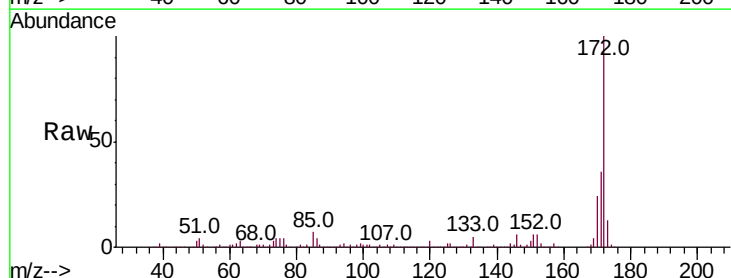


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

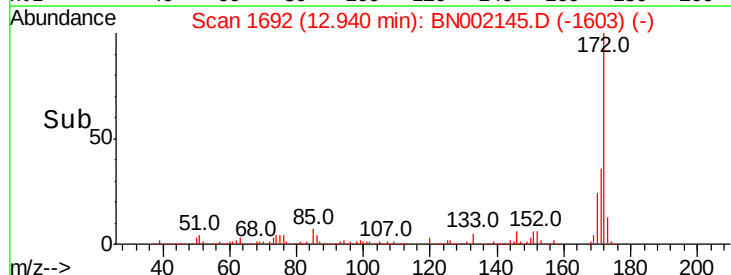
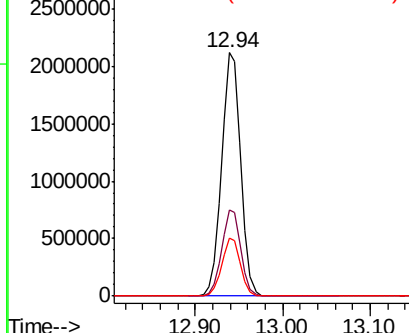


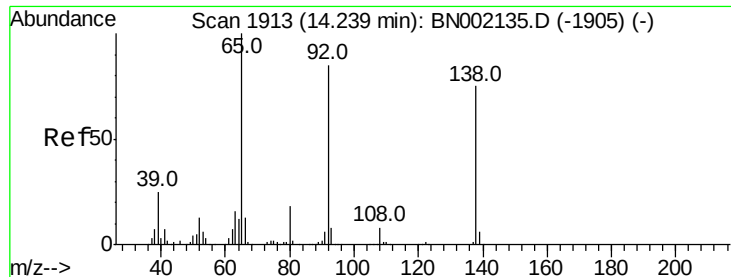
#44  
 2-Fluorobiphenyl  
 Concen: 85.788 ng  
 RT: 12.94 min Scan# 1692  
 Delta R.T. -0.01 min  
 Lab File: BN002145.D  
 Acq: 25 Jul 2018 20:40

Tgt Ion:172 Resp: 3186263  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 30.0 45.0  
 170 23.7 19.5 29.3



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





#52

3-Nitroaniline

Concen: 3.387 ng

RT: 14.23 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

Instrument :

BNA\_N

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

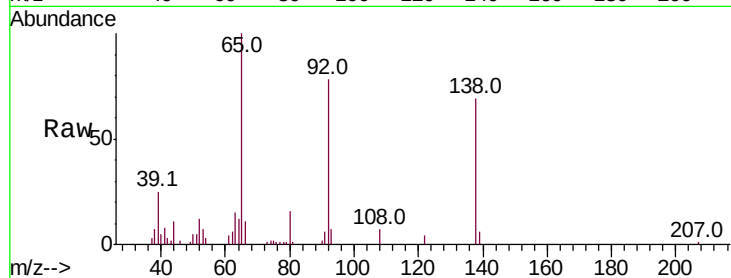
Tot Ion:138 Resp: 32762

Ion Ratio Lower Upper

138 100

108 10.7 17.5 26.3#

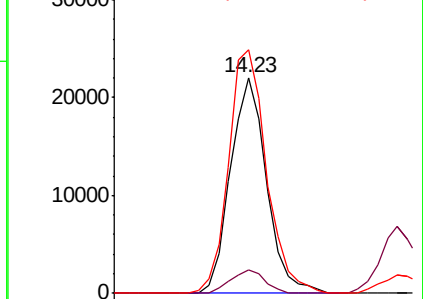
92 112.8 105.8 158.8



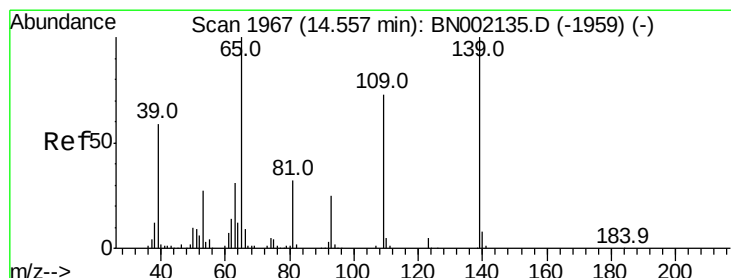
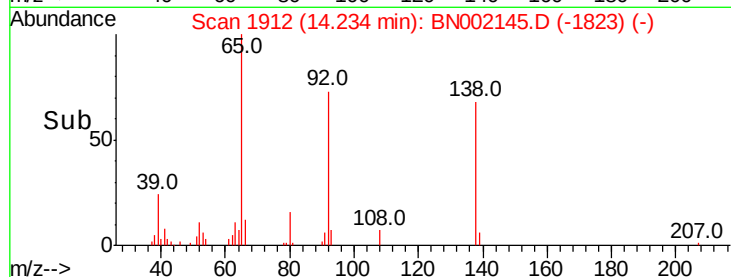
Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BNC



Time-->



#55

4-Nitrophenol

Concen: 3.580 ng

RT: 14.56 min Scan# 1967

Delta R.T. 0.00 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

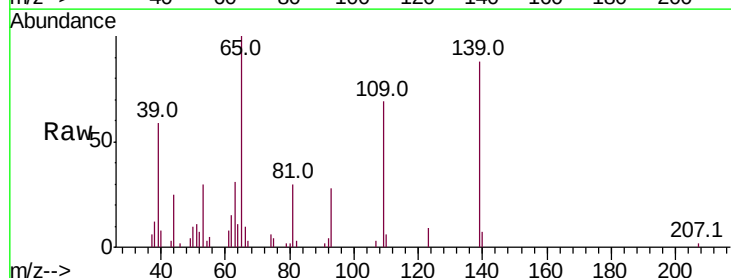
Tgt Ion:139 Resp: 26589

Ion Ratio Lower Upper

139 100

109 77.6 62.2 102.2

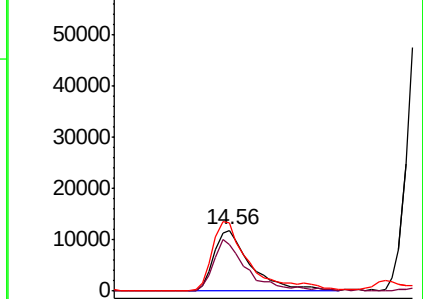
65 113.2 97.2 137.2



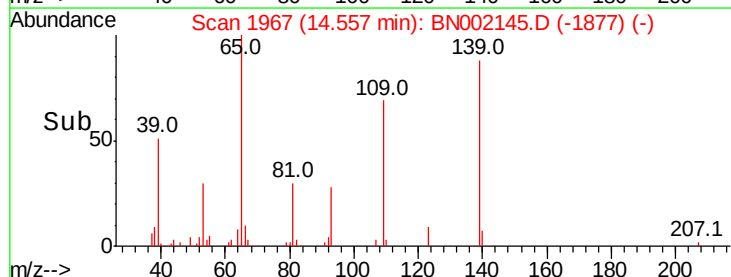
Abundance Ion 139.00 (138.70 to 139.70): E

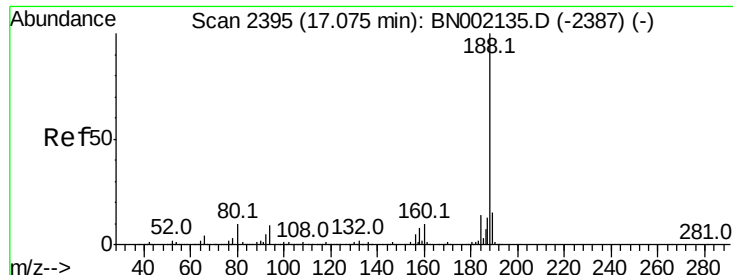
Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BNC



Time-->

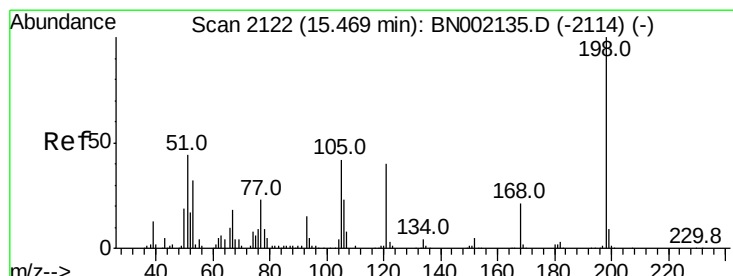
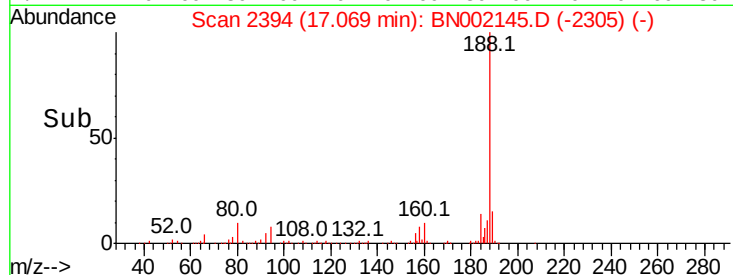
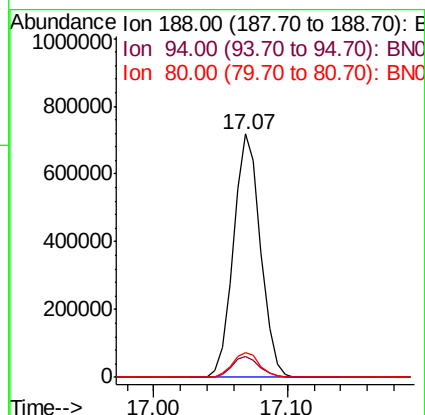
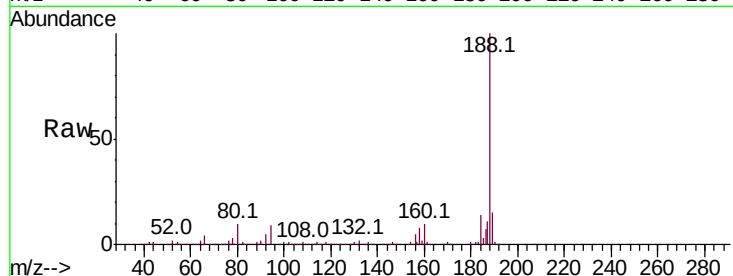




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.07 min Scan# 2394  
Delta R.T. -0.01 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

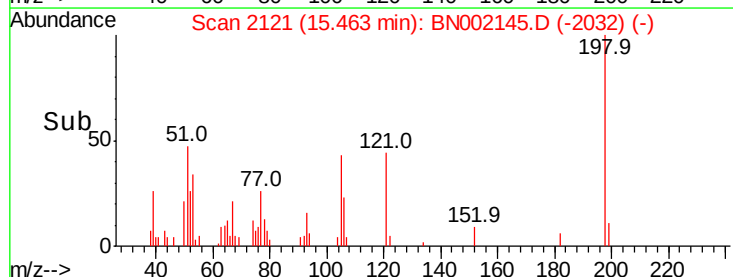
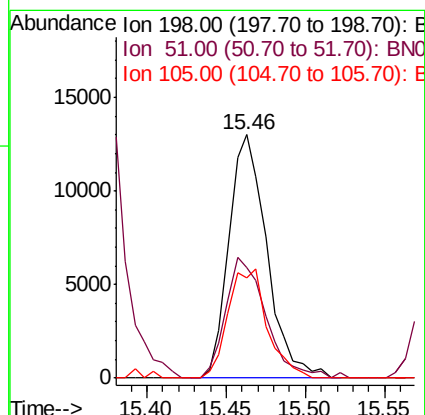
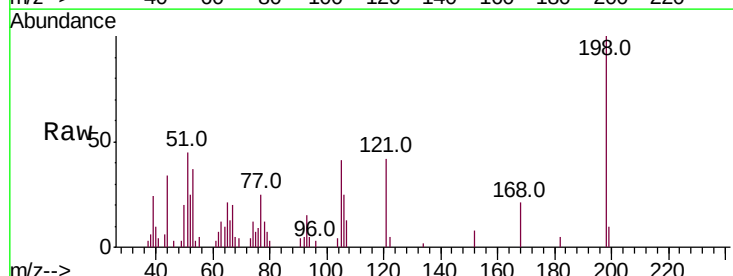
Instrument :  
BNA\_N  
ClientSampleId :  
LOD-MDL-SOIL-01-QT3-2018

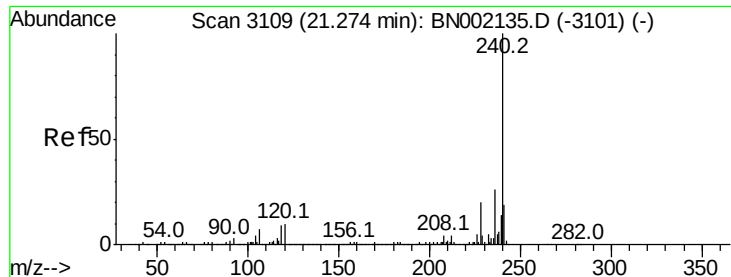
Tot Ion:188 Resp: 1011725  
Ion Ratio Lower Upper  
188 100  
94 8.8 6.9 10.3  
80 10.0 7.7 11.5



#64  
4,6-Dinitro-2-methylphenol  
Concen: 3.158 ng  
RT: 15.46 min Scan# 2121  
Delta R.T. -0.01 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

Tgt Ion:198 Resp: 21569  
Ion Ratio Lower Upper  
198 100  
51 45.4 30.6 70.6  
105 41.0 23.8 63.8





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.27 min Scan# 3108

Delta R.T. -0.01 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

Instrument :

BNA\_N

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

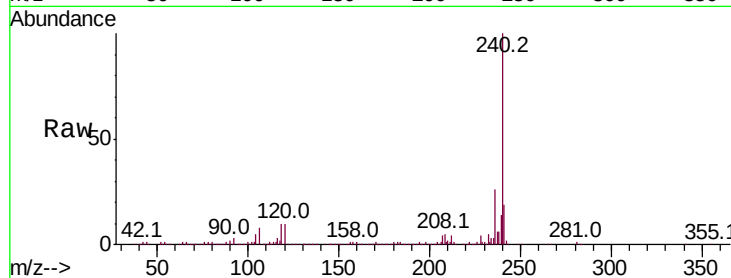
Tot Ion:240 Resp: 895866

Ion Ratio Lower Upper

240 100

120 10.0 6.8 10.2

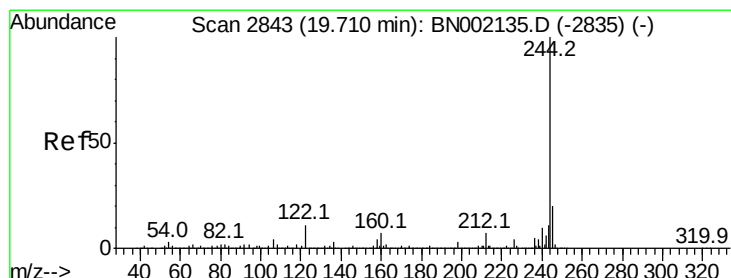
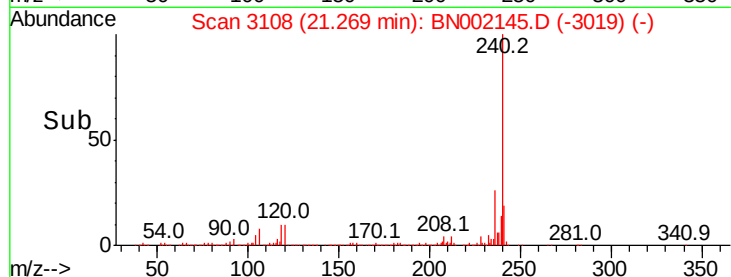
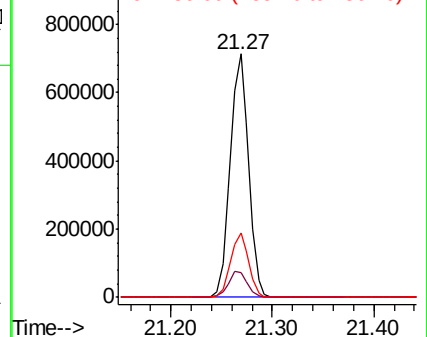
236 26.3 20.9 31.3



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



#78

Terphenyl-d14

Concen: 107.676 ng

RT: 19.71 min Scan# 2843

Delta R.T. 0.00 min

Lab File: BN002145.D

Acq: 25 Jul 2018 20:40

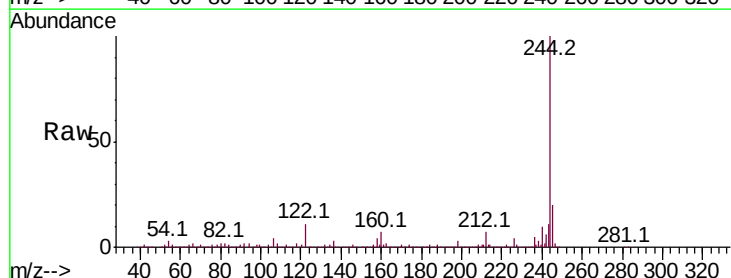
Tgt Ion:244 Resp: 4625111

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

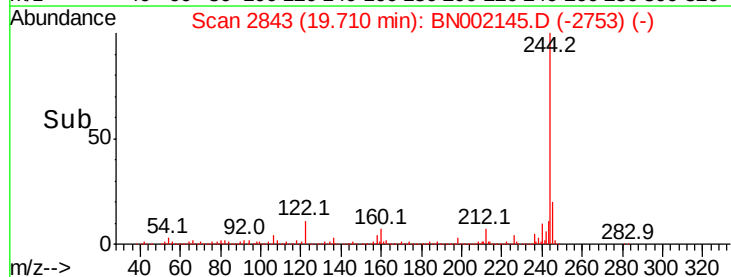
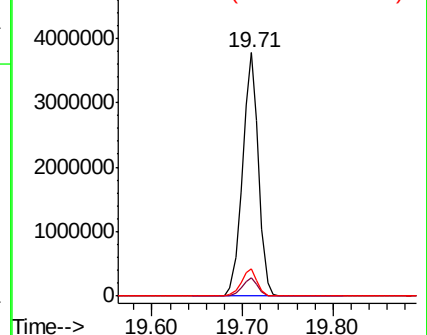
122 11.3 7.0 10.4#

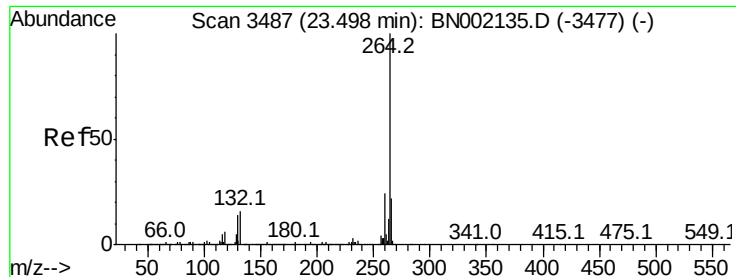


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.49 min Scan# 3486  
Delta R.T. -0.01 min  
Lab File: BN002145.D  
Acq: 25 Jul 2018 20:40

Instrument :  
BNA\_N  
ClientSampleId :  
LOD-MDL-SOIL-01-QT3-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 17.4  | 26.0  |
| 265     | 21.3  | 17.7  | 26.5  |

