

# Hemp Proficiency Testing

## All Labs Precision

### OL22NOV-1 (oil)



Sample: OL22NOV-1 (oil)

All Labs Precision

Issue Date: January 20, 2023

| Analyte      | Code   | Method          | Lab Num      | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |      | Flag |
|--------------|--------|-----------------|--------------|---------|---------|---------|----------|-----------|------------------------|-----|------|------|
|              |        |                 |              |         |         |         |          |           | Rob Mean               | min | max  |      |
|              |        |                 | Δ9-THC (%AR) |         |         |         |          |           |                        |     |      |      |
| Δ9-THC (%AR) | 001.30 | Other LC-MS     | 190          | 0.124   | 0.115   |         |          |           |                        |     |      | 1    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 106          | 0.1     | 0.1     | 0.1     | 0        | 0         | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.30 | Other LC-MS     | 122          | 0.1018  | 0.1018  | 0.1016  | 0.11     | 0.02      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.02 | AOAC 2018.11, U | 199          | 0.096   | 0.096   | 0.0955  | 0.3      | 0.05      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 204          | 0.1756  | 0.1768  | 0.1768  | 0.39     | 0.08      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 200          | 0.099   | 0.1     | 0.099   | 0.58     | 0.1       | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.02 | AOAC 2018.11, U | 103          | 0.19    | 0.191   | 0.193   | 0.8      | 0.16      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.02 | AOAC 2018.11, U | 125          | 0.105   | 0.103   | 0.104   | 0.96     | 0.17      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 194          | 0.1014  | 0.1003  | 0.0994  | 1        | 0.18      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 189          | 0.0928  | 0.0934  | 0.0915  | 1.05     | 0.18      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.03 | AOAC 2018.11, M | 139          | 0.0978  | 0.0958  | 0.0959  | 1.17     | 0.21      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.02 | AOAC 2018.11, U | 120          | 0.0672  | 0.0665  | 0.0691  | 1.99     | 0.33      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 184          | 0.1079  | 0.1037  | 0.105   | 2.04     | 0.36      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 149          | 0.094   | 0.098   | 0.093   | 2.79     | 0.49      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV     | 196          | 0.093   | 0.0905  | 0.0962  | 3.06     | 0.54      | 3.41                   | 0   | 30.2 | 0    |

| Analyte      | Code   | Method       | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |      | Flag |
|--------------|--------|--------------|---------|---------|---------|---------|----------|-----------|------------------------|-----|------|------|
|              |        |              |         |         |         |         |          |           | Rob Mean               | min | max  |      |
| Δ9-THC (%AR) | 001.10 | Other LC-UV  | 170     | 0.3255  | 0.3079  | 0.3142  | 2.82     | 0.6       | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV  | 162     | 0.082   | 0.0877  | 0.0828  | 3.67     | 0.63      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV  | 197     | 0.0995  | 0.1019  | 0.1093  | 4.93     | 0.88      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.01 | AOAC 2018.10 | 210     | 0.086   | 0.085   | 0.078   | 5.25     | 0.91      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV  | 192     | 0.0781  | 0.0692  | 0.0705  | 6.62     | 1.12      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.30 | Other LC-MS  | 102     | 0.1003  | 0.0997  | 0.113   | 7.2      | 1.29      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.30 | Other LC-MS  | 149     | 0.109   | 0.093   | 0.093   | 9.39     | 1.66      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.99 | Other        | 183     | 0.109   | 0.093   | 0.084   | 13.3     | 2.34      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.10 | Other LC-UV  | 155     | 0.126   | 0.164   | 0.13    | 14.9     | 2.78      | 3.41                   | 0   | 30.2 | 0    |
| Δ9-THC (%AR) | 001.60 | NIR          | 187     | 1.1     | 0.8     | 0.6     | 30.2     | 7.36      | 3.41                   | 0   | 30.2 | 0    |

### Δ9-THCA (%AR)

|               |        |                 |     |         |         |         |  |  |  |  |  |   |
|---------------|--------|-----------------|-----|---------|---------|---------|--|--|--|--|--|---|
| Δ9-THCA (%AR) | 002.02 | AOAC 2018.11, U | 199 | <0.0500 | <0.0500 | <0.0500 |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.99 | Other           | 183 | 0       | 0       | 0       |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.30 | Other LC-MS     | 190 | 0.0002  | 0.0002  |         |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 194 | <0.0067 | <0.0067 | <0.0067 |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 170 | <0.0100 | <0.0100 | <0.0100 |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 196 | <0.0205 | <0.0205 | <0.0205 |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 162 | <0.0100 | <0.0100 | <0.0100 |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.60 | NIR             | 187 | <0.0500 | <0.0500 | <0.0500 |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.30 | Other LC-MS     | 122 | <0.0100 | <0.0100 | <0.0100 |  |  |  |  |  | 1 |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 200 | <0.0100 | <0.0100 | <0.0100 |  |  |  |  |  | 1 |

| Analyte       | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|---------------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|               |        |                 |         |         |         |         |          |           | Rob Mean               | min | max |      |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 184     | <0.0400 | <0.0400 | <0.0400 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 155     | 0.029   | 0.033   | 0       |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.30 | Other LC-MS     | 102     | <0.0196 | <0.0187 | <0.0184 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.30 | Other LC-MS     | 149     | <0.0040 | <0.0040 | <0.0040 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 149     | <0.0400 | <0.0400 | <0.0400 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.02 | AOAC 2018.11, U | 103     | <0.0005 | <0.0005 | <0.0005 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 106     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.02 | AOAC 2018.11, U | 120     | <0.0025 | <0.0025 | <0.0025 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.01 | AOAC 2018.10    | 210     | <0.0490 | <0.0500 | <0.0480 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.02 | AOAC 2018.11, U | 125     | <0.0020 | <0.0171 | <0.0016 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 197     | <0.0092 | <0.0088 | <0.0101 |          |           |                        |     |     | 1    |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 189     | 0.0089  | 0.0098  | 0.0094  | 4.81     | 0.6       |                        |     |     | 0    |
| Δ9-THCA (%AR) | 002.10 | Other LC-UV     | 192     | 0.0337  | 0.0307  | 0.0312  | 5.04     | 0.75      |                        |     |     | 0    |
| Δ9-THCA (%AR) | 002.03 | AOAC 2018.11, M | 139     | 0.0046  | 0.0046  | 0.0036  | 13.5     | 1.5       |                        |     |     | 0    |

CBD (%AR)

|           |        |             |     |        |        |        |      |      |      |      |      |   |
|-----------|--------|-------------|-----|--------|--------|--------|------|------|------|------|------|---|
| CBD (%AR) | 003.30 | Other LC-MS | 190 | 1.891  | 1.892  |        |      |      |      |      |      | 1 |
| CBD (%AR) | 003.30 | Other LC-MS | 122 | 1.6012 | 1.6012 | 1.6016 | 0.01 | 0    | 2.83 | 0.01 | 47.6 | 0 |
| CBD (%AR) | 003.10 | Other LC-UV | 204 | 1.7111 | 1.7148 | 1.7137 | 0.11 | 0.03 | 2.83 | 0.01 | 47.6 | 0 |
| CBD (%AR) | 003.10 | Other LC-UV | 196 | 1.7711 | 1.77   | 1.777  | 0.21 | 0.06 | 2.83 | 0.01 | 47.6 | 0 |
| CBD (%AR) | 003.10 | Other LC-UV | 189 | 1.351  | 1.3544 | 1.3438 | 0.4  | 0.11 | 2.83 | 0.01 | 47.6 | 0 |
| CBD (%AR) | 003.10 | Other LC-UV | 106 | 1.74   | 1.71   | 1.73   | 0.88 | 0.24 | 2.83 | 0.01 | 47.6 | 0 |

| Analyte   | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |      |      | Flag |
|-----------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|------|------|------|
|           |        |                 |         |         |         |         |          |           | Rob Mean               | min  | max  |      |
| CBD (%AR) | 003.01 | AOAC 2018.10    | 210     | 1.617   | 1.595   | 1.584   | 1.05     | 0.28      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.02 | AOAC 2018.11, U | 103     | 3.178   | 3.233   | 3.229   | 0.95     | 0.28      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 149     | 1.66    | 1.678   | 1.636   | 1.27     | 0.34      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.02 | AOAC 2018.11, U | 199     | 1.7115  | 1.757   | 1.73    | 1.32     | 0.36      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 194     | 1.731   | 1.7488  | 1.6932  | 1.65     | 0.45      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 200     | 1.664   | 1.706   | 1.645   | 1.87     | 0.51      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.02 | AOAC 2018.11, U | 125     | 1.62    | 1.59    | 1.56    | 1.89     | 0.51      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 184     | 1.5875  | 1.5309  | 1.5262  | 2.2      | 0.59      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 197     | 1.8188  | 1.8331  | 1.8981  | 2.28     | 0.63      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 162     | 1.8666  | 1.7815  | 1.7837  | 2.68     | 0.73      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 170     | 1.6675  | 1.5559  | 1.5577  | 4.01     | 1.08      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.03 | AOAC 2018.11, M | 139     | 1.8043  | 1.6878  | 1.6285  | 5.24     | 1.42      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 155     | 1.63    | 1.81    | 1.76    | 5.36     | 1.46      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.30 | Other LC-MS     | 149     | 1.744   | 1.579   | 1.729   | 5.42     | 1.47      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.30 | Other LC-MS     | 102     | 1.7002  | 1.6149  | 1.8076  | 5.65     | 1.54      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.10 | Other LC-UV     | 192     | 1.3319  | 1.171   | 1.1941  | 7.06     | 1.83      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.99 | Other           | 183     | 1.821   | 1.492   | 1.441   | 13       | 3.49      | 2.83                   | 0.01 | 47.6 | 0    |
| CBD (%AR) | 003.60 | NIR             | 187     | 0.7     | 1.9     | 1.2     | 47.6     | 12.36     | 2.83                   | 0.01 | 47.6 | 0    |

|            |
|------------|
| CBDA (%AR) |
|------------|

|            |        |             |     |       |         |         |  |  |  |  |  |   |
|------------|--------|-------------|-----|-------|---------|---------|--|--|--|--|--|---|
| CBDA (%AR) | 004.60 | NIR         | 187 | 0.65  | <0.0500 | <0.0500 |  |  |  |  |  | 1 |
| CBDA (%AR) | 004.30 | Other LC-MS | 190 | 0.065 | 0.052   |         |  |  |  |  |  | 1 |

| Analyte    | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |      | Flag |
|------------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|-----|------|------|
|            |        |                 |         |         |         |         |          |           | Rob Mean               | min | max  |      |
| CBDA (%AR) | 004.10 | Other LC-UV     | 200     | 0.058   | 0.058   | 0.058   | 0        | 0         | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 106     | 0.06    | 0.06    | 0.06    | 0        | 0         | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.30 | Other LC-MS     | 122     | 0.0691  | 0.0698  | 0.0694  | 0.51     | 0.08      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 204     | 0.0574  | 0.0574  | 0.0583  | 0.9      | 0.15      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 149     | 0.058   | 0.057   | 0.058   | 1        | 0.16      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 194     | 0.0633  | 0.0625  | 0.062   | 1.05     | 0.17      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.02 | AOAC 2018.11, U | 125     | 0.0614  | 0.0599  | 0.0606  | 1.24     | 0.2       | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.02 | AOAC 2018.11, U | 199     | 0.0585  | 0.06    | 0.0595  | 1.29     | 0.21      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 184     | 0.0339  | 0.0327  | 0.0338  | 1.99     | 0.3       | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 189     | 0.0553  | 0.0558  | 0.0538  | 1.89     | 0.31      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 162     | 0.0583  | 0.0557  | 0.0556  | 2.71     | 0.44      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 197     | 0.0555  | 0.0589  | 0.0569  | 2.99     | 0.49      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.01 | AOAC 2018.10    | 210     | 0.057   | 0.054   | 0.057   | 3.09     | 0.5       | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 192     | 0.042   | 0.0399  | 0.0393  | 3.51     | 0.54      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 196     | 0.0544  | 0.0566  | 0.0583  | 3.46     | 0.56      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.02 | AOAC 2018.11, U | 103     | 0.115   | 0.119   | 0.111   | 3.48     | 0.63      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.30 | Other LC-MS     | 149     | 0.055   | 0.049   | 0.056   | 7.1      | 1.15      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.03 | AOAC 2018.11, M | 139     | 0.0693  | 0.0605  | 0.0596  | 8.49     | 1.41      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 155     | 0.112   | 0.133   | 0.119   | 8.81     | 1.61      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.99 | Other           | 183     | 0.073   | 0.057   | 0.058   | 14.3     | 2.37      | 3.31                   | 0   | 15.1 | 0    |
| CBDA (%AR) | 004.10 | Other LC-UV     | 170     | 0.0606  | 0.0787  | 0.0807  | 15.1     | 2.56      | 3.31                   | 0   | 15.1 | 0    |

| Analyte   | Code   | Method          | Lab Num   | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |      | Flag |
|-----------|--------|-----------------|-----------|---------|---------|---------|----------|-----------|------------------------|-----|------|------|
|           |        |                 |           |         |         |         |          |           | Rob Mean               | min | max  |      |
|           |        |                 | CBN (%AR) |         |         |         |          |           |                        |     |      |      |
| CBN (%AR) | 005.10 | Other LC-UV     | 149       | <0.0400 | <0.0400 | <0.0400 |          |           |                        |     |      | 1    |
| CBN (%AR) | 005.20 | Other LC-MS     | 190       | 0.041   | 0.04    |         |          |           |                        |     |      | 1    |
| CBN (%AR) | 005.02 | AOAC 2018.11, U | 199       | <0.0500 | <0.0500 | <0.0500 |          |           |                        |     |      | 1    |
| CBN (%AR) | 005.10 | Other LC-UV     | 210       | <0.0460 | <0.0460 | <0.0450 |          |           |                        |     |      | 1    |
| CBN (%AR) | 005.20 | Other LC-MS     | 102       | <0.0489 | <0.0468 | <0.0377 |          |           |                        |     |      | 1    |
| CBN (%AR) | 005.10 | Other LC-UV     | 200       | 0.033   | 0.033   | 0.033   | 0        | 0         | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 106       | 0.03    | 0.03    | 0.03    | 0        | 0         | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.20 | Other LC-MS     | 122       | 0.0491  | 0.0485  | 0.0488  | 0.62     | 0.1       | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 194       | 0.0318  | 0.0321  | 0.0316  | 0.79     | 0.12      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 189       | 0.027   | 0.0272  | 0.0266  | 1.13     | 0.17      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 162       | 0.0352  | 0.0344  | 0.0342  | 1.53     | 0.23      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.02 | AOAC 2018.11, U | 125       | 0.0363  | 0.0352  | 0.0357  | 1.54     | 0.23      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 204       | 0.0329  | 0.032   | 0.0318  | 1.82     | 0.27      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 197       | 0.0345  | 0.0358  | 0.0358  | 2.12     | 0.32      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 196       | 0.0314  | 0.0302  | 0.0318  | 2.67     | 0.4       | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.20 | Other LC-MS     | 149       | 0.031   | 0.03    | 0.033   | 4.88     | 0.73      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.10 | Other LC-UV     | 192       | 0.0209  | 0.0183  | 0.0183  | 7.83     | 1.08      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.03 | AOAC 2018.11, M | 139       | 0.0347  | 0.0287  | 0.0305  | 9.84     | 1.47      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.99 | Other           | 183       | 0.037   | 0.031   | 0.03    | 11.6     | 1.74      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.30 | GC-FID          | 138       | 0.0314  | 0.0418  | 0.0337  | 15.3     | 2.33      | 4.45                   | 0   | 23.6 | 0    |
| CBN (%AR) | 005.02 | AOAC 2018.11, U | 107       | 0.0192  | 0.0276  | 0.0311  | 23.6     | 3.41      | 4.45                   | 0   | 23.6 | 0    |

| Analyte            | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |      | Flag |
|--------------------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|-----|------|------|
|                    |        |                 |         |         |         |         |          |           | Rob Mean               | min | max  |      |
| Total Δ9-THC (%AR) |        |                 |         |         |         |         |          |           |                        |     |      |      |
| Total Δ9-THC (%AR) | 006.02 | AOAC 2018.11, U | 199     | 0.096   | 0.096   | 0.0955  | 0.3      | 0.05      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 200     | 0.099   | 0.1     | 0.099   | 0.58     | 0.1       | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 204     | 0.1756  | 0.1768  | 0.1784  | 0.79     | 0.15      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.02 | AOAC 2018.11, U | 103     | 0.19    | 0.191   | 0.193   | 0.8      | 0.16      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.02 | AOAC 2018.11, U | 125     | 0.105   | 0.103   | 0.104   | 0.96     | 0.17      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 194     | 0.1014  | 0.1003  | 0.0994  | 1        | 0.18      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.40 | GC-FID          | 169     | 0.1035  | 0.1056  | 0.1045  | 1        | 0.18      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 189     | 0.1006  | 0.102   | 0.0998  | 1.1      | 0.2       | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.03 | AOAC 2018.11, M | 139     | 0.1019  | 0.0999  | 0.099   | 1.48     | 0.26      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.02 | AOAC 2018.11, U | 120     | 0.0672  | 0.0655  | 0.0691  | 2.68     | 0.45      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.40 | GC-FID          | 138     | 0.0888  | 0.0938  | 0.0915  | 2.74     | 0.48      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 149     | 0.094   | 0.098   | 0.093   | 2.79     | 0.49      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 196     | 0.093   | 0.0905  | 0.0962  | 3.06     | 0.54      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 162     | 0.082   | 0.0877  | 0.0828  | 3.67     | 0.63      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.01 | AOAC 2018.10    | 210     | 0.129   | 0.129   | 0.12    | 4.12     | 0.76      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 197     | 0.0995  | 0.1019  | 0.1093  | 4.93     | 0.88      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 192     | 0.1077  | 0.0962  | 0.0979  | 6.17     | 1.1       | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.30 | Other LC-MS     | 102     | 0.1003  | 0.103   | 0.113   | 6.35     | 1.13      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.30 | Other LC-MS     | 149     | 0.109   | 0.093   | 0.093   | 9.39     | 1.66      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.99 | Other           | 183     | 0.109   | 0.093   | 0.084   | 13.3     | 2.34      | 4.16                   | 0.3 | 30.2 | 0    |

| Analyte            | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |      | Flag |
|--------------------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|-----|------|------|
|                    |        |                 |         |         |         |         |          |           | Rob Mean               | min | max  |      |
| Total Δ9-THC (%AR) | 006.02 | AOAC 2018.11, U | 107     | 0.0806  | 0.1096  | 0.1052  | 15.9     | 2.81      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.10 | Other LC-UV     | 155     | 0.152   | 0.164   | 0.215   | 18.9     | 3.65      | 4.16                   | 0.3 | 30.2 | 0    |
| Total Δ9-THC (%AR) | 006.60 | NIR             | 187     | 1.1     | 0.8     | 0.6     | 30.2     | 7.36      | 4.16                   | 0.3 | 30.2 | 0    |

Total CBD (%AR)

|                 |        |                 |     |        |        |        |      |      |      |      |      |   |
|-----------------|--------|-----------------|-----|--------|--------|--------|------|------|------|------|------|---|
| Total CBD (%AR) | 007.10 | Other LC-UV     | 204 | 1.7614 | 1.7651 | 1.7648 | 0.12 | 0.03 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 196 | 1.8188 | 1.8196 | 1.8281 | 0.28 | 0.08 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 189 | 1.3995 | 1.4034 | 1.391  | 0.45 | 0.12 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.02 | AOAC 2018.11, U | 103 | 3.2789 | 3.3374 | 3.3263 | 0.94 | 0.28 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 149 | 1.66   | 1.678  | 1.636  | 1.27 | 0.34 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.02 | AOAC 2018.11, U | 199 | 1.7628 | 1.8096 | 1.7822 | 1.32 | 0.36 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 194 | 1.7865 | 1.8036 | 1.7476 | 1.61 | 0.44 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.40 | GC-FID          | 169 | 2.1951 | 2.1289 | 2.1751 | 1.57 | 0.44 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.01 | AOAC 2018.10    | 210 | 0.17   | 0.167  | 0.162  | 2.43 | 0.47 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 200 | 1.715  | 1.757  | 1.696  | 1.81 | 0.49 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.02 | AOAC 2018.11, U | 125 | 1.68   | 1.64   | 1.62   | 1.86 | 0.5  | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 197 | 1.8675 | 1.8848 | 1.948  | 2.23 | 0.62 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 162 | 1.9177 | 1.83   | 1.832  | 2.69 | 0.74 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.40 | GC-FID          | 138 | 1.7909 | 1.8986 | 1.9756 | 4.91 | 1.35 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.03 | AOAC 2018.11, M | 139 | 1.8651 | 1.7408 | 1.6808 | 5.33 | 1.46 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.30 | Other LC-MS     | 149 | 1.792  | 1.622  | 1.778  | 5.45 | 1.48 | 3.37 | 0.12 | 25.8 | 0 |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 155 | 1.73   | 1.93   | 1.86   | 5.52 | 1.51 | 3.37 | 0.12 | 25.8 | 0 |

| Analyte         | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |      |      | Flag |
|-----------------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|------|------|------|
|                 |        |                 |         |         |         |         |          |           | Rob Mean               | min  | max  |      |
| Total CBD (%AR) | 007.10 | Other LC-UV     | 192     | 1.3687  | 1.206   | 1.2285  | 6.95     | 1.81      | 3.37                   | 0.12 | 25.8 | 0    |
| Total CBD (%AR) | 007.02 | AOAC 2018.11, U | 107     | 1.5453  | 1.9466  | 1.9469  | 12.8     | 3.5       | 3.37                   | 0.12 | 25.8 | 0    |
| Total CBD (%AR) | 007.99 | Other           | 183     | 1.885   | 1.542   | 1.492   | 13       | 3.52      | 3.37                   | 0.12 | 25.8 | 0    |
| Total CBD (%AR) | 007.60 | NIR             | 187     | 1.3     | 1.9     | 1.2     | 25.8     | 6.85      | 3.37                   | 0.12 | 25.8 | 0    |

### CBDV (%AR)

|            |        |                 |     |         |         |         |      |      |      |   |      |   |
|------------|--------|-----------------|-----|---------|---------|---------|------|------|------|---|------|---|
| CBDV (%AR) | 008.02 | AOAC 2018.11, U | 199 | <0.0500 | <0.0500 | <0.0500 |      |      |      |   |      | 1 |
| CBDV (%AR) | 008.99 | Other           | 106 | <0.0100 | <0.0100 | <0.0100 |      |      |      |   |      | 1 |
| CBDV (%AR) | 008.02 | AOAC 2018.11, U | 210 | <0.0450 | <0.0460 | <0.0450 |      |      |      |   |      | 1 |
| CBDV (%AR) | 008.99 | Other           | 196 | <0.0210 | <0.0210 | <0.0210 |      |      |      |   |      | 1 |
| CBDV (%AR) | 008.99 | Other           | 197 | <0.0138 | <0.0132 | <0.0151 |      |      |      |   |      | 1 |
| CBDV (%AR) | 008.99 | Other           | 200 | 0.013   | 0.013   | 0.013   | 0    | 0    | 5.82 | 0 | 13.1 | 0 |
| CBDV (%AR) | 008.99 | Other           | 194 | 0.0126  | 0.0124  | 0.0125  | 0.8  | 0.1  | 5.82 | 0 | 13.1 | 0 |
| CBDV (%AR) | 008.99 | Other           | 149 | 0.012   | 0.011   | 0.011   | 5.09 | 0.65 | 5.82 | 0 | 13.1 | 0 |
| CBDV (%AR) | 008.99 | Other           | 189 | 0.0094  | 0.0097  | 0.0107  | 6.85 | 0.86 | 5.82 | 0 | 13.1 | 0 |
| CBDV (%AR) | 008.99 | Other           | 183 | 0.014   | 0.012   | 0.012   | 9.12 | 1.19 | 5.82 | 0 | 13.1 | 0 |
| CBDV (%AR) | 008.99 | Other           | 162 | 0.0158  | 0.0156  | 0.0124  | 13.1 | 1.74 | 5.82 | 0 | 13.1 | 0 |

### CBDVA (%AR)

|             |        |              |     |         |         |         |  |  |  |  |  |   |
|-------------|--------|--------------|-----|---------|---------|---------|--|--|--|--|--|---|
| CBDVA (%AR) | 009.99 | Other        | 183 | 0       | 0       | 0       |  |  |  |  |  | 1 |
| CBDVA (%AR) | 009.99 | Other        | 197 | <0.0092 | <0.0088 | <0.0101 |  |  |  |  |  | 1 |
| CBDVA (%AR) | 009.01 | AOAC 2018.10 | 210 | <0.0490 | <0.0490 | <0.0480 |  |  |  |  |  | 1 |

| Analyte     | Code   | Method | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|-------------|--------|--------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|             |        |        |         |         |         |         |          |           | Rob Mean               | min | max |      |
| CBDVA (%AR) | 009.99 | Other  | 196     | <0.0210 | <0.0210 | <0.0210 |          |           |                        |     |     | 1    |
| CBDVA (%AR) | 009.99 | Other  | 149     | <0.0400 | <0.0400 | <0.0400 |          |           |                        |     |     | 1    |

### CBG (%AR)

|           |        |                 |     |        |        |        |      |      |      |   |      |   |
|-----------|--------|-----------------|-----|--------|--------|--------|------|------|------|---|------|---|
| CBG (%AR) | 010.99 | Other           | 200 | 0.08   | 0.08   | 0.08   | 0    | 0    | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.02 | AOAC 2018.11, U | 199 | 0.075  | 0.0755 | 0.0755 | 0.38 | 0.07 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 194 | 0.0764 | 0.0758 | 0.0754 | 0.66 | 0.11 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 189 | 0.0951 | 0.0956 | 0.0939 | 0.92 | 0.16 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 196 | 0.0732 | 0.0717 | 0.0712 | 1.44 | 0.24 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.01 | AOAC 2018.10    | 210 | 0.076  | 0.076  | 0.074  | 1.53 | 0.26 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.02 | AOAC 2018.11, U | 125 | 0.0786 | 0.0762 | 0.0776 | 1.56 | 0.27 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 149 | 0.068  | 0.065  | 0.066  | 2.3  | 0.38 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 106 | 0.14   | 0.13   | 0.13   | 4.33 | 0.8  | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 162 | 0.0819 | 0.0711 | 0.078  | 7.1  | 1.21 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 197 | 0.0603 | 0.0706 | 0.0671 | 7.94 | 1.32 | 3.03 | 0 | 13.9 | 0 |
| CBG (%AR) | 010.99 | Other           | 183 | 0.085  | 0.071  | 0.065  | 13.9 | 2.36 | 3.03 | 0 | 13.9 | 0 |

### CBGA (%AR)

|            |        |                 |     |         |         |         |  |  |  |  |  |   |
|------------|--------|-----------------|-----|---------|---------|---------|--|--|--|--|--|---|
| CBGA (%AR) | 011.99 | Other           | 197 | <0.0092 | <0.0088 | <0.0101 |  |  |  |  |  | 1 |
| CBGA (%AR) | 011.99 | Other           | 196 | <0.0210 | <0.0210 | <0.0210 |  |  |  |  |  | 1 |
| CBGA (%AR) | 011.99 | Other           | 149 | <0.0400 | <0.0400 | <0.0400 |  |  |  |  |  | 1 |
| CBGA (%AR) | 011.02 | AOAC 2018.11, U | 199 | <0.0500 | <0.0500 | <0.0500 |  |  |  |  |  | 1 |

| Analyte    | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|------------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|            |        |                 |         |         |         |         |          |           | Rob Mean               | min | max |      |
| CBGA (%AR) | 011.99 | Other           | 106     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| CBGA (%AR) | 011.99 | Other           | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| CBGA (%AR) | 011.01 | AOAC 2018.10    | 210     | <0.0490 | <0.0490 | <0.0480 |          |           |                        |     |     | 1    |
| CBGA (%AR) | 011.99 | Other           | 194     | <0.0067 | <0.0067 | <0.0067 |          |           |                        |     |     | 1    |
| CBGA (%AR) | 011.99 | Other           | 183     | 0       | 0       | 0       |          |           |                        |     |     | 1    |
| CBGA (%AR) | 011.02 | AOAC 2018.11, U | 125     | <0.0020 | 0.0021  | 0.0018  |          |           |                        |     |     | 1    |
| CBGA (%AR) | 011.99 | Other           | 204     | 0.0766  | 0.0741  | 0.0767  | 1.94     | 0.33      |                        |     |     | 0    |
| CBGA (%AR) | 011.99 | Other           | 189     | 0.0031  | 0.0033  | 0.0028  | 8.21     | 0.86      |                        |     |     | 0    |

## THCV (%AR)

|            |        |                 |     |         |         |         |      |     |  |  |  |   |
|------------|--------|-----------------|-----|---------|---------|---------|------|-----|--|--|--|---|
| THCV (%AR) | 012.99 | Other           | 194 | <0.0067 | <0.0067 | <0.0067 |      |     |  |  |  | 1 |
| THCV (%AR) | 012.99 | Other           | 149 | <0.0400 | <0.0400 | <0.0400 |      |     |  |  |  | 1 |
| THCV (%AR) | 012.99 | Other           | 196 | <0.0210 | <0.0210 | <0.0210 |      |     |  |  |  | 1 |
| THCV (%AR) | 012.99 | Other           | 197 | <0.0092 | <0.0088 | <0.0101 |      |     |  |  |  | 1 |
| THCV (%AR) | 012.99 | Other           | 183 | 0       | 0       | 0       |      |     |  |  |  | 1 |
| THCV (%AR) | 012.02 | AOAC 2018.11, U | 210 | <0.0460 | <0.0460 | <0.0450 |      |     |  |  |  | 1 |
| THCV (%AR) | 012.99 | Other           | 106 | <0.0100 | <0.0100 | <0.0100 |      |     |  |  |  | 1 |
| THCV (%AR) | 012.99 | Other           | 200 | <0.0050 | <0.0050 | <0.0050 |      |     |  |  |  | 1 |
| THCV (%AR) | 012.99 | Other           | 189 | 0.0033  | 0.0032  | 0.0029  | 6.64 | 0.7 |  |  |  | 0 |

## Δ8-THC (%AR)

|              |        |       |     |       |       |       |      |      |      |      |    |   |
|--------------|--------|-------|-----|-------|-------|-------|------|------|------|------|----|---|
| Δ8-THC (%AR) | 013.99 | Other | 200 | 0.275 | 0.275 | 0.273 | 0.42 | 0.09 | 3.18 | 0.42 | 11 | 0 |
|--------------|--------|-------|-----|-------|-------|-------|------|------|------|------|----|---|

| Analyte      | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |      |     | Flag |
|--------------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|------|-----|------|
|              |        |                 |         |         |         |         |          |           | Rob Mean               | min  | max |      |
| Δ8-THC (%AR) | 013.99 | Other           | 194     | 0.2676  | 0.2673  | 0.2653  | 0.47     | 0.1       | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.02 | AOAC 2018.11, U | 199     | 0.2815  | 0.2855  | 0.283   | 0.71     | 0.15      | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 196     | 0.2543  | 0.251   | 0.255   | 0.84     | 0.17      | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 189     | 0.2305  | 0.2324  | 0.2279  | 0.98     | 0.2       | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.01 | AOAC 2018.10    | 210     | 0.276   | 0.271   | 0.264   | 2.23     | 0.46      | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 138     | 0.2738  | 0.2845  | 0.2857  | 2.33     | 0.48      | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 149     | 0.258   | 0.264   | 0.251   | 2.53     | 0.52      | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.03 | AOAC 2018.11, M | 139     | 0.3401  | 0.3316  | 0.3186  | 3.28     | 0.7       | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 197     | 0.2579  | 0.28    | 0.2818  | 4.87     | 1         | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 102     | 0.2647  | 0.2647  | 0.29    | 5.35     | 1.1       | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 106     | 0.27    | 0.26    | 0.24    | 5.95     | 1.22      | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 162     | 0.2726  | 0.2508  | 0.2894  | 7.14     | 1.47      | 3.18                   | 0.42 | 11  | 0    |
| Δ8-THC (%AR) | 013.99 | Other           | 183     | 0.297   | 0.253   | 0.242   | 11       | 2.26      | 3.18                   | 0.42 | 11  | 0    |

### CBC (%AR)

|           |        |                 |     |        |        |        |      |      |      |   |      |   |
|-----------|--------|-----------------|-----|--------|--------|--------|------|------|------|---|------|---|
| CBC (%AR) | 014.99 | Other           | 106 | 0.09   | 0.09   | 0.09   | 0    | 0    | 1.89 | 0 | 13.1 | 0 |
| CBC (%AR) | 014.99 | Other           | 200 | 0.107  | 0.107  | 0.107  | 0    | 0    | 1.89 | 0 | 13.1 | 0 |
| CBC (%AR) | 014.02 | AOAC 2018.11, U | 103 | 0.188  | 0.188  | 0.188  | 0    | 0    | 1.89 | 0 | 13.1 | 0 |
| CBC (%AR) | 014.99 | Other           | 189 | 0.0855 | 0.0859 | 0.0849 | 0.59 | 0.1  | 1.89 | 0 | 13.1 | 0 |
| CBC (%AR) | 014.99 | Other           | 194 | 0.0947 | 0.0934 | 0.0929 | 0.99 | 0.17 | 1.89 | 0 | 13.1 | 0 |
| CBC (%AR) | 014.02 | AOAC 2018.11, U | 125 | 0.0962 | 0.0935 | 0.0949 | 1.42 | 0.25 | 1.89 | 0 | 13.1 | 0 |
| CBC (%AR) | 014.01 | AOAC 2018.10    | 210 | 0.092  | 0.089  | 0.09   | 1.69 | 0.3  | 1.89 | 0 | 13.1 | 0 |

| Analyte   | Code   | Method          | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |      | Flag |
|-----------|--------|-----------------|---------|---------|---------|---------|----------|-----------|------------------------|-----|------|------|
|           |        |                 |         |         |         |         |          |           | Rob Mean               | min | max  |      |
| CBC (%AR) | 014.99 | Other           | 149     | 0.093   | 0.09    | 0.093   | 1.88     | 0.33      | 1.89                   | 0   | 13.1 | 0    |
| CBC (%AR) | 014.02 | AOAC 2018.11, U | 199     | 0.0955  | 0.0985  | 0.095   | 1.97     | 0.35      | 1.89                   | 0   | 13.1 | 0    |
| CBC (%AR) | 014.99 | Other           | 162     | 0.092   | 0.0876  | 0.088   | 2.73     | 0.48      | 1.89                   | 0   | 13.1 | 0    |
| CBC (%AR) | 014.99 | Other           | 196     | 0.0909  | 0.0922  | 0.0858  | 3.77     | 0.66      | 1.89                   | 0   | 13.1 | 0    |
| CBC (%AR) | 014.99 | Other           | 197     | 0.0907  | 0.102   | 0.0959  | 5.88     | 1.04      | 1.89                   | 0   | 13.1 | 0    |
| CBC (%AR) | 014.99 | Other           | 183     | 0.103   | 0.085   | 0.081   | 13.1     | 2.28      | 1.89                   | 0   | 13.1 | 0    |

## Cd (ug/g AR)

|              |        |        |     |         |         |         |      |      |  |  |  |   |
|--------------|--------|--------|-----|---------|---------|---------|------|------|--|--|--|---|
| Cd (ug/g AR) | 101.04 | ICP-MS | 106 | <0.0800 | <0.0800 | <0.0800 |      |      |  |  |  | 1 |
| Cd (ug/g AR) | 101.04 | ICP-MS | 194 | <0.0200 | <0.0200 | <0.0200 |      |      |  |  |  | 1 |
| Cd (ug/g AR) | 101.04 | ICP-MS | 183 | 0       | 0       | 0       |      |      |  |  |  | 1 |
| Cd (ug/g AR) | 101.04 | ICP-MS | 196 | <0.0241 | <0.0241 | <0.0241 |      |      |  |  |  | 1 |
| Cd (ug/g AR) | 101.04 | ICP-MS | 197 | <0.0971 | <0.0969 | <0.0986 |      |      |  |  |  | 1 |
| Cd (ug/g AR) | 101.04 | ICP-MS | 162 | <0.2000 | <0.2000 | <0.2000 |      |      |  |  |  | 1 |
| Cd (ug/g AR) | 101.04 | ICP-MS | 102 | 0.002   | 0.0033  | 0.0032  | 25.5 | 2.65 |  |  |  | 0 |

## As (ug/g AR)

|              |        |        |     |         |         |         |  |  |  |  |  |   |
|--------------|--------|--------|-----|---------|---------|---------|--|--|--|--|--|---|
| As (ug/g AR) | 102.04 | ICP-MS | 197 | <0.0971 | <0.0969 | <0.0986 |  |  |  |  |  | 1 |
| As (ug/g AR) | 102.04 | ICP-MS | 162 | <0.2000 | <0.2000 | <0.2000 |  |  |  |  |  | 1 |
| As (ug/g AR) | 102.04 | ICP-MS | 194 | <0.0200 | <0.0200 | <0.0200 |  |  |  |  |  | 1 |
| As (ug/g AR) | 102.04 | ICP-MS | 183 | 0       | 0       | 0       |  |  |  |  |  | 1 |
| As (ug/g AR) | 102.04 | ICP-MS | 106 | <0.0800 | <0.0800 | <0.0800 |  |  |  |  |  | 1 |

| Analyte      | Code   | Method | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|--------------|--------|--------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|              |        |        |         |         |         |         |          |           | Rob Mean               | min | max |      |
| As (ug/g AR) | 102.04 | ICP-MS | 196     | <0.0482 | <0.0482 | <0.0482 |          |           |                        |     |     | 1    |
| As (ug/g AR) | 102.04 | ICP-MS | 102     | 0.0073  | 0.0064  | 0.0062  | 8.83     | 1.04      |                        |     |     | 0    |
| Hg (ug/g AR) |        |        |         |         |         |         |          |           |                        |     |     |      |
| Hg (ug/g AR) | 103.04 | ICP-MS | 194     | <0.0200 | <0.0200 | <0.0200 |          |           |                        |     |     | 1    |
| Hg (ug/g AR) | 103.04 | ICP-MS | 197     | <0.0971 | <0.0969 | <0.0986 |          |           |                        |     |     | 1    |
| Hg (ug/g AR) | 103.04 | ICP-MS | 196     | <0.0072 | <0.0072 | <0.0072 |          |           |                        |     |     | 1    |
| Hg (ug/g AR) | 103.04 | ICP-MS | 106     | <0.0080 | <0.0080 | <0.0080 |          |           |                        |     |     | 1    |
| Hg (ug/g AR) | 103.04 | ICP-MS | 162     | <0.2000 | <0.2000 | <0.2000 |          |           |                        |     |     | 1    |
| Hg (ug/g AR) | 103.04 | ICP-MS | 102     | 0.0038  | 0.0036  | 0.0036  | 3.15     | 0.34      |                        |     |     | 0    |
| Hg (ug/g AR) | 103.04 | ICP-MS | 183     | 0.006   | 0.005   | 0.005   | 10.8     | 1.24      |                        |     |     | 0    |
| Pb (ug/g AR) |        |        |         |         |         |         |          |           |                        |     |     |      |
| Pb (ug/g AR) | 104.04 | ICP-MS | 183     | 0       | 0       | 0       |          |           |                        |     |     | 1    |
| Pb (ug/g AR) | 104.04 | ICP-MS | 196     | <0.0241 | <0.0241 | <0.0241 |          |           |                        |     |     | 1    |
| Pb (ug/g AR) | 104.04 | ICP-MS | 197     | <0.0971 | <0.0969 | <0.0986 |          |           |                        |     |     | 1    |
| Pb (ug/g AR) | 104.04 | ICP-MS | 106     | <0.0800 | <0.0800 | <0.0800 |          |           |                        |     |     | 1    |
| Pb (ug/g AR) | 104.04 | ICP-MS | 162     | <0.2000 | <0.2000 | <0.2000 |          |           |                        |     |     | 1    |
| Pb (ug/g AR) | 104.04 | ICP-MS | 194     | <0.0200 | <0.0200 | <0.0200 |          |           |                        |     |     | 1    |
| Pb (ug/g AR) | 104.04 | ICP-MS | 102     | 0.0376  | 0.0543  | 0.0563  | 20.8     | 3.32      |                        |     |     | 0    |

| Analyte      | Code   | Method | Lab Num      | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|--------------|--------|--------|--------------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|              |        |        |              |         |         |         |          |           | Rob Mean               | min | max |      |
|              |        |        | Cu (ug/g AR) |         |         |         |          |           |                        |     |     |      |
| Cu (ug/g AR) | 105.04 | ICP-MS | 196          | <0.4893 | <0.4893 | <0.4893 |          |           |                        |     |     | 1    |
|              |        |        | Ni (ug/g AR) |         |         |         |          |           |                        |     |     |      |
| Ni (ug/g AR) | 106.04 | ICP-MS | 196          | <0.0722 | <0.0722 | <0.0722 |          |           |                        |     |     | 1    |
| Ni (ug/g AR) | 106.04 | ICP-MS | 102          | 0.031   | 0.0203  | 0.0205  | 25.6     | 3.66      |                        |     |     | 0    |
|              |        |        | Cr (ug/g AR) |         |         |         |          |           |                        |     |     |      |
| Cr (ug/g AR) | 107.04 | ICP-MS | 197          | <0.0971 | <0.0969 | <0.0986 |          |           |                        |     |     | 1    |
| Cr (ug/g AR) | 107.04 | ICP-MS | 196          | <0.0722 | <0.0722 | <0.0722 |          |           |                        |     |     | 1    |
|              |        |        | Se (ug/g AR) |         |         |         |          |           |                        |     |     |      |
| Se (ug/g AR) | 108.04 | ICP-MS | 197          | <0.0971 | <0.0969 | <0.0986 |          |           |                        |     |     | 1    |
| Se (ug/g AR) | 108.04 | ICP-MS | 196          | <0.0963 | <0.0963 | <0.0963 |          |           |                        |     |     | 1    |
| Se (ug/g AR) | 108.04 | ICP-MS | 102          | 0.0319  | 0.0308  | 0.0222  | 18.8     | 2.76      |                        |     |     | 0    |
|              |        |        | Ag (ug/g AR) |         |         |         |          |           |                        |     |     |      |
| Ag (ug/g AR) | 109.04 | ICP-MS | 102          | <0.0030 | <0.0030 | <0.0030 |          |           |                        |     |     | 1    |
|              |        |        | Zn (ug/g AR) |         |         |         |          |           |                        |     |     |      |
| Zn (ug/g AR) | 111.04 | ICP-MS | 196          | <0.4893 | <0.4893 | <0.4893 |          |           |                        |     |     | 1    |

| Analyte                       | Code   | Method | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|-------------------------------|--------|--------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|                               |        |        |         |         |         |         |          |           | Rob Mean               | min | max |      |
| Sb (ug/g AR)                  |        |        |         |         |         |         |          |           |                        |     |     |      |
| Sb (ug/g AR)                  | 112.04 | ICP-MS | 196     | <0.0241 | <0.0241 | <0.0241 |          |           |                        |     |     | 1    |
| Sb (ug/g AR)                  | 112.04 | ICP-MS | 102     | <0.0040 | <0.0040 | <0.0040 |          |           |                        |     |     | 1    |
| (-)-alpha-Bisabolol (%AR)     |        |        |         |         |         |         |          |           |                        |     |     |      |
| (-)-alpha-Bisabolol (%A       | 201.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| (-)-alpha-Bisabolol (%A       | 201.02 | GC,MS  | 196     | <0.0625 | <0.0625 | <0.0625 |          |           |                        |     |     | 1    |
| (-)-alpha-Bisabolol (%A       | 201.02 | GC,MS  | 183     | 0.031   | 0.034   | 0.032   | 4.72     | 0.71      |                        |     |     | 0    |
| (-)-alpha-Bisabolol (%A       | 201.02 | GC,MS  | 194     | 0.0102  | 0.0116  | 0.0107  | 6.55     | 0.83      |                        |     |     | 0    |
| beta-Caryophyllene (%AR)      |        |        |         |         |         |         |          |           |                        |     |     |      |
| beta-Caryophyllene (%)        | 202.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| beta-Caryophyllene (%)        | 202.02 | GC,MS  | 196     | <0.0625 | <0.0625 | <0.0625 |          |           |                        |     |     | 1    |
| beta-Caryophyllene (%)        | 202.02 | GC,MS  | 194     | 0.0094  | 0.0096  | 0.0096  | 1.21     | 0.15      |                        |     |     | 0    |
| beta-Caryophyllene (%)        | 202.02 | GC,MS  | 183     | 0.013   | 0.011   | 0.012   | 8.33     | 1.08      |                        |     |     | 0    |
| (-)-Caryophyllene oxide (%AR) |        |        |         |         |         |         |          |           |                        |     |     |      |
| (-)-Caryophyllene oxide       | 203.02 | GC,MS  | 196     | <0.0625 | <0.0625 | <0.0625 |          |           |                        |     |     | 1    |
| (-)-Caryophyllene oxide       | 203.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| (-)-Caryophyllene oxide       | 203.02 | GC,MS  | 183     | 0.003   | 0.001   | 0.001   | 69.3     | 6.65      |                        |     |     | 0    |

| Analyte              | Code   | Method | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|----------------------|--------|--------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|                      |        |        |         |         |         |         |          |           | Rob Mean               | min | max |      |
| Geraniol (%AR)       |        |        |         |         |         |         |          |           |                        |     |     |      |
| Geraniol (%AR)       | 204.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| Geraniol (%AR)       | 204.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| Geraniol (%AR)       | 204.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| Geraniol (%AR)       | 204.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| alpha-Humulene (%AR) |        |        |         |         |         |         |          |           |                        |     |     |      |
| alpha-Humulene (%AR) | 205.02 | GC,MS  | 196     | <0.0625 | <0.0625 | <0.0625 |          |           |                        |     |     | 1    |
| alpha-Humulene (%AR) | 205.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| alpha-Humulene (%AR) | 205.02 | GC,MS  | 183     | 0.004   | 0.004   | 0.004   | 0        | 0         |                        |     |     | 0    |
| alpha-Humulene (%AR) | 205.02 | GC,MS  | 194     | 0.0047  | 0.0049  | 0.0048  | 2.08     | 0.23      |                        |     |     | 0    |
| d-Limonene (%AR)     |        |        |         |         |         |         |          |           |                        |     |     |      |
| d-Limonene (%AR)     | 206.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| d-Limonene (%AR)     | 206.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| d-Limonene (%AR)     | 206.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| d-Limonene (%AR)     | 206.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| Linalool (%AR)       |        |        |         |         |         |         |          |           |                        |     |     |      |
| Linalool (%AR)       | 207.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| Linalool (%AR)       | 207.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| Linalool (%AR)       | 207.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |

| Analyte                      | Code   | Method | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|------------------------------|--------|--------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|                              |        |        |         |         |         |         |          |           | Rob Mean               | min | max |      |
| Linalool (%AR)               | 207.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| <b>beta-Myrcene (%AR)</b>    |        |        |         |         |         |         |          |           |                        |     |     |      |
| beta-Myrcene (%AR)           | 208.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| beta-Myrcene (%AR)           | 208.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| beta-Myrcene (%AR)           | 208.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| beta-Myrcene (%AR)           | 208.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| <b>Ocimene (%AR)</b>         |        |        |         |         |         |         |          |           |                        |     |     |      |
| Ocimene (%AR)                | 210.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| Ocimene (%AR)                | 210.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| Ocimene (%AR)                | 210.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| Ocimene (%AR)                | 210.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| <b>alpha-Pinene (%AR)</b>    |        |        |         |         |         |         |          |           |                        |     |     |      |
| alpha-Pinene (%AR)           | 211.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| alpha-Pinene (%AR)           | 211.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| alpha-Pinene (%AR)           | 211.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| alpha-Pinene (%AR)           | 211.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| <b>(-)-beta-Pinene (%AR)</b> |        |        |         |         |         |         |          |           |                        |     |     |      |
| (-)-beta-Pinene (%AR)        | 212.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |

| Analyte                        | Code   | Method | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|--------------------------------|--------|--------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|                                |        |        |         |         |         |         |          |           | Rob Mean               | min | max |      |
| (-)-beta-Pinene (%AR)          | 212.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| (-)-beta-Pinene (%AR)          | 212.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| (-)-beta-Pinene (%AR)          | 212.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| <b>alpha-Terpinene (%AR)</b>   |        |        |         |         |         |         |          |           |                        |     |     |      |
| alpha-Terpinene (%AR)          | 213.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| alpha-Terpinene (%AR)          | 213.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| alpha-Terpinene (%AR)          | 213.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| alpha-Terpinene (%AR)          | 213.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| <b>gamma-Terpinene (%AR)</b>   |        |        |         |         |         |         |          |           |                        |     |     |      |
| gamma-Terpinene (%A            | 214.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| gamma-Terpinene (%A            | 214.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| gamma-Terpinene (%A            | 214.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| gamma-Terpinene (%A            | 214.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| <b>alpha-Terpinolene (%AR)</b> |        |        |         |         |         |         |          |           |                        |     |     |      |
| alpha-Terpinolene (%A          | 215.02 | GC,MS  | 162     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |
| alpha-Terpinolene (%A          | 215.02 | GC,MS  | 196     | <0.0013 | <0.0013 | <0.0013 |          |           |                        |     |     | 1    |
| alpha-Terpinolene (%A          | 215.02 | GC,MS  | 194     | <0.0004 | <0.0004 | <0.0004 |          |           |                        |     |     | 1    |
| alpha-Terpinolene (%A          | 215.02 | GC,MS  | 183     | <0.0100 | <0.0100 | <0.0100 |          |           |                        |     |     | 1    |

| Analyte | Code | Method | Lab Num | Result1 | Result2 | Result3 | Lab RSDr | HorRat(r) | Population of Lab RSDr |     |     | Flag |
|---------|------|--------|---------|---------|---------|---------|----------|-----------|------------------------|-----|-----|------|
|         |      |        |         |         |         |         |          |           | Rob Mean               | min | max |      |

- 1. Flag definitions: 1 (Lab RSDr not calculated because there were less than 3 numeric lab results)
- 2. Statistical parameters of robust mean, minimum, and maximum for RSDr only shown only if there were 6 or more lab RSDr values.
- 3. AR refers to concentration on as-received basis. DW refers to concentration on dry weight basis.c