

Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 19

Sample # 221031

Nitrogen Select PT Scheme

Labs Reporting: 19

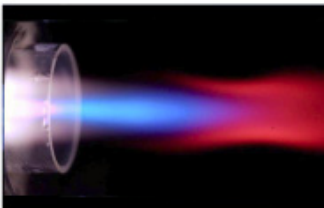
(NH4)2SO4

Statistical Summary

Issue Date : 11/30/2022

| Analyte Code | Analyte Sample # 221031 | # Tests Submitted | # Tests in Robust Calculations | Raw Mean | Raw SD | Assigned Value Robust Mean | IA at Analyte Value | Robust sd | Robust Uncertainty (U) | Robust % RSD | Analyte IA Ratio | Average Range (R-bar) | Horwitz %RSD |
|--------------|----------------------------|-------------------|--------------------------------|----------|--------|-------------------------------|---------------------|-----------|------------------------|--------------|------------------|-----------------------|--------------|
| 001 | Ammoniacal N (%) | 7 | 7 | 21.03 | 0.1580 | 21.06 | | 0.0989 | 0.0467 | 0.47% | | 0.0529 | 2.18% |
| 010 | Total N (21%) | 17 | 17 | 21.18 | 0.3875 | 21.18 | 0.7418 | 0.2824 | 0.0856 | 1.33% | 0.89 | 0.1353 | 2.17% |
| 121 | Acid Soluble Mg (%) | 1 | | 0.0005 | | | | | | | | | |
| 143 | Elemental S (%) | 1 | | 0.0300 | | | | | | | | | |
| 145 | Sulfate S, HCl soluble (%) | 6 | 6 | 23.53 | 1.206 | 23.73 | | 0.8666 | 0.4422 | 3.65% | | 0.1600 | 2.05% |
| 148 | Total S (24%) | 17 | 17 | 24.24 | 1.196 | 24.24 | 1.0000 | 0.8838 | 0.2679 | 3.65% | 2.06 | 0.1539 | 2.03% |
| 151 | Acid Soluble As (ppm) | 6 | 3 | 0.8842 | 1.159 | 0.2983 | | 0.2976 | 0.2148 | 99.75% | | 0.0933 | 19.19% |
| 181 | Acid Soluble Cd (ppm) | 6 | 2 | 1.102 | 2.189 | 2.752 | | 3.886 | 3.435 | 141.19% | | 1.501 | 13.74% |
| 191 | Acid Soluble Cr (ppm) | 6 | 5 | 1.608 | 2.014 | 1.730 | | 2.227 | 1.245 | 128.72% | | 0.6422 | 14.73% |
| 202 | Acid Soluble Co (ppm) | 6 | 2 | 0.6856 | 1.199 | 1.502 | 1.4505 | 2.119 | 1.873 | 141.09% | 3.40 | 1.002 | 15.05% |
| 221 | Acid Soluble Cu (%) | 5 | 1 | 0.0003 | 0.0004 | 1.502 | 0.1552 | 2.119 | 2.649 | 141.09% | 31.82 | 0.0005 | 3.76% |
| 241 | Acid Soluble Fe (%) | 1 | | 0.0009 | | | | | | | | | |
| 251 | Acid Soluble Pb (ppm) | 5 | 2 | 1.702 | 2.332 | 2.251 | | 3.181 | 2.812 | 141.33% | | 1.501 | 14.16% |
| 261 | Acid Soluble Mn (%) | 1 | | 0.0000 | | | | | | | | | |
| 281 | Acid Soluble Hg (ppm) | 4 | 1 | 0.5058 | 0.9962 | 2.251 | | 3.181 | 3.976 | 141.33% | | 0.0040 | 14.16% |
| 289 | Acid Soluble Mo (ppm) | 5 | 3 | 1.844 | 3.323 | 2.640 | 1.7920 | 4.426 | 3.194 | 167.64% | 5.75 | 1.180 | 13.82% |
| 291 | Acid Soluble Ni (ppm) | 6 | 3 | 0.9700 | 1.038 | 1.570 | | 1.147 | 0.8279 | 73.07% | | 0.7867 | 14.95% |
| 301 | Acid Soluble Se (ppm) | 5 | 3 | 2.112 | 4.411 | 0.0867 | | 0.1040 | 0.0750 | 119.96% | | 0.0707 | 22.00% |
| 321 | Acid Soluble Zn (%) | 6 | 0 | 0.0086 | 0.0203 | 0.0867 | 0.0137 | 0.1040 | | 119.96% | 17.72 | 0.0000 | 5.78% |

The Analyte IA Ratio = 2.33 * Robust SD / IA at the Analyte Assigned Value. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting. The Horwitz %RSD is calculated using the Thompson Modification, Analyst,2000,125,385-386.



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Labs Reporting: 19

(NH4)2SO4

Lab Values

Issue Date : 11/30/2022

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder PT Z Score | Your Method | Flag |
|---------------|----------------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | Range | | | | |
| 001 | Ammoniacal N (%) | 0220 | 20.70 | 0.1000 | 21.06 | 0.0989 | 0.0529 | 7 | -3.33 | 001.99 | 0 |
| 001 | Ammoniacal N (%) | 0513 | 21.01 | 0.0200 | 21.06 | 0.0989 | 0.0529 | 7 | -0.50 | 001.99 | 0 |
| 001 | Ammoniacal N (%) | 0585 | 21.03 | 0.0300 | 21.06 | 0.0989 | 0.0529 | 7 | -0.36 | 001.10 | 0 |
| 001 | Ammoniacal N (%) | 0585 | 21.09 | 0.0200 | 21.06 | 0.0989 | 0.0529 | 7 | 0.23 | 001.99 | 0 |
| 001 | Ammoniacal N (%) | 0493 | 21.10 | 0.1000 | 21.06 | 0.0989 | 0.0529 | 7 | 0.33 | 001.99 | 0 |
| 001 | Ammoniacal N (%) | 0027 | 21.14 | 0.0500 | 21.06 | 0.0989 | 0.0529 | 7 | 0.64 | 001.99 | 0 |
| 001 | Ammoniacal N (%) | 0586 | 21.18 | 0.0500 | 21.06 | 0.0989 | 0.0529 | 7 | 1.01 | 001.99 | 0 |
| 010 | Total N (21%) | 0450 | 20.20† | 0.2000 | 21.18 | 0.2824 | 0.1353 | 17 | -3.49 | 010.60 | 0 |
| 010 | Total N (21%) | 0494 | 20.91 | 0.3600 | 21.18 | 0.2824 | 0.1353 | 17 | -0.97 | 010.60 | 0 |
| 010 | Total N (21%) | 0027 | 20.97 | 0.0400 | 21.18 | 0.2824 | 0.1353 | 17 | -0.76 | 010.60 | 0 |
| 010 | Total N (21%) | 0371 | 21.00 | 0.2000 | 21.18 | 0.2824 | 0.1353 | 17 | -0.65 | 010.99 | 0 |
| 010 | Total N (21%) | 0585 | 21.03 | 0.0200 | 21.18 | 0.2824 | 0.1353 | 17 | -0.55 | 010.17 | 0 |
| 010 | Total N (21%) | 0561 | 21.06 | 0.0300 | 21.18 | 0.2824 | 0.1353 | 17 | -0.46 | 010.60 | 0 |
| 010 | Total N (21%) | 0220 | 21.06 | 0.0400 | 21.18 | 0.2824 | 0.1353 | 17 | -0.44 | 010.60 | 0 |
| 010 | Total N (21%) | 0585 | 21.09 | 0.0200 | 21.18 | 0.2824 | 0.1353 | 17 | -0.33 | 010.99 | 0 |
| 010 | Total N (21%) | 0042 | 21.10 | 0.4000 | 21.18 | 0.2824 | 0.1353 | 17 | -0.30 | 010.60 | 0 |
| 010 | Total N (21%) | 0025 | 21.15 | 0.0700 | 21.18 | 0.2824 | 0.1353 | 17 | -0.14 | 010.60 | 0 |
| 010 | Total N (21%) | 0405 | 21.23 | 0.0200 | 21.18 | 0.2824 | 0.1353 | 17 | 0.16 | 010.60 | 0 |
| 010 | Total N (21%) | 0040 | 21.25 | 0.1000 | 21.18 | 0.2824 | 0.1353 | 17 | 0.23 | 010.60 | 0 |
| 010 | Total N (21%) | 0073 | 21.33 | 0.0100 | 21.18 | 0.2824 | 0.1353 | 17 | 0.50 | 010.60 | 0 |
| 010 | Total N (21%) | 0421 | 21.44 | 0.5000 | 21.18 | 0.2824 | 0.1353 | 17 | 0.91 | 010.60 | 0 |
| 010 | Total N (21%) | 0594 | 21.55 | 0.1000 | 21.18 | 0.2824 | 0.1353 | 17 | 1.30 | 010.60 | 0 |
| 010 | Total N (21%) | 0593 | 21.75 | 0.1900 | 21.18 | 0.2824 | 0.1353 | 17 | 1.99 | 010.60 | 0 |
| 010 | Total N (21%) | 0576 | 22.00‡ | 0.0000 | 21.18 | 0.2824 | 0.1353 | 17 | 2.89 | 010.99 | 0 |
| 121 | Acid Soluble Mg (%) | 0371 | 0.0005 | 0.0000 | | | | 1 | | 121.30 | 0 |
| 143 | Elemental S (%) | 0405 | 0.0300 | 0.0000 | | | | 1 | | 143.00 | 0 |
| 145 | Sulfate S, HCl soluble (%) | 0494 | 21.23 | 0.1200 | 23.73 | 0.8666 | 0.1600 | 6 | -2.58 | 145.00 | 0 |
| 145 | Sulfate S, HCl soluble (%) | 0593 | 23.50 | 0.1600 | 23.73 | 0.8666 | 0.1600 | 6 | -0.24 | 145.99 | 0 |
| 145 | Sulfate S, HCl soluble (%) | 0586 | 23.60 | 0.1800 | 23.73 | 0.8666 | 0.1600 | 6 | -0.14 | 145.99 | 0 |
| 145 | Sulfate S, HCl soluble (%) | 0561 | 23.98 | 0.4500 | 23.73 | 0.8666 | 0.1600 | 6 | 0.25 | 145.00 | 0 |
| 145 | Sulfate S, HCl soluble (%) | 0027 | 24.23 | 0.0400 | 23.73 | 0.8666 | 0.1600 | 6 | 0.51 | 145.00 | 0 |
| 145 | Sulfate S, HCl soluble (%) | 0405 | 24.66 | 0.0100 | 23.73 | 0.8666 | 0.1600 | 6 | 0.95 | 145.00 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder PT Z Score | Your Method | Flag |
|---------------|-----------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | Range | | | | |
| 148 | Total S (24%) | 0494 | 21.28† | 0.0996 | 24.24 | 0.8838 | 0.1539 | 17 | -3.36 | 148.01 | 0 |
| 148 | Total S (24%) | 0073 | 22.99† | 0.7500 | 24.24 | 0.8838 | 0.1539 | 17 | -1.43 | 148.00 | 0 |
| 148 | Total S (24%) | 0576 | 23.00† | 0.0000 | 24.24 | 0.8838 | 0.1539 | 17 | -1.41 | 148.99 | 0 |
| 148 | Total S (24%) | 0593 | 23.42 | 0.2500 | 24.24 | 0.8838 | 0.1539 | 17 | -0.94 | 148.00 | 0 |
| 148 | Total S (24%) | 0585 | 24.00 | 0.0000 | 24.24 | 0.8838 | 0.1539 | 17 | -0.28 | 148.99 | 0 |
| 148 | Total S (24%) | 0371 | 24.05 | 0.1000 | 24.24 | 0.8838 | 0.1539 | 17 | -0.22 | 148.99 | 0 |
| 148 | Total S (24%) | 0585 | 24.13 | 0.0500 | 24.24 | 0.8838 | 0.1539 | 17 | -0.14 | 148.01 | 0 |
| 148 | Total S (24%) | 0040 | 24.15 | 0.1000 | 24.24 | 0.8838 | 0.1539 | 17 | -0.11 | 148.07 | 0 |
| 148 | Total S (24%) | 0494 | 24.39 | 0.6569 | 24.24 | 0.8838 | 0.1539 | 17 | 0.16 | 148.07 | 0 |
| 148 | Total S (24%) | 0450 | 24.57 | 0.0300 | 24.24 | 0.8838 | 0.1539 | 17 | 0.36 | 148.99 | 0 |
| 148 | Total S (24%) | 0405 | 24.69 | 0.0100 | 24.24 | 0.8838 | 0.1539 | 17 | 0.50 | 148.01 | 0 |
| 148 | Total S (24%) | 0513 | 24.76 | 0.0800 | 24.24 | 0.8838 | 0.1539 | 17 | 0.58 | 148.07 | 0 |
| 148 | Total S (24%) | 0594 | 24.80 | 0.0000 | 24.24 | 0.8838 | 0.1539 | 17 | 0.63 | 148.00 | 0 |
| 148 | Total S (24%) | 0513 | 24.84 | 0.0600 | 24.24 | 0.8838 | 0.1539 | 17 | 0.67 | 148.01 | 0 |
| 148 | Total S (24%) | 0220 | 24.91 | 0.0200 | 24.24 | 0.8838 | 0.1539 | 17 | 0.75 | 148.01 | 0 |
| 148 | Total S (24%) | 0220 | 25.00 | 0.0400 | 24.24 | 0.8838 | 0.1539 | 17 | 0.85 | 148.99 | 0 |
| 148 | Total S (24%) | 0421 | 27.06‡ | 0.3700 | 24.24 | 0.8838 | 0.1539 | 17 | 3.18 | 148.07 | 0 |
| 151 | Acid Soluble As (ppm) | 0371 | 0.0050 | 0.0000 | 0.2983 | 0.2976 | 0.0933 | 3 | -0.80 | 151.30 | 0 |
| 151 | Acid Soluble As (ppm) | 0594 | 0.2900 | 0.0800 | 0.2983 | 0.2976 | 0.0933 | 3 | -0.02 | 151.30 | 0 |
| 151 | Acid Soluble As (ppm) | 0220 | 0.6000 | 0.2000 | 0.2983 | 0.2976 | 0.0933 | 3 | 0.82 | 151.99 | 0 |
| 151 | Acid Soluble As (ppm) | 0585 | < 0.01 | | 0.2983 | 0.2976 | 0.0933 | 3 | | 151.30 | 5 |
| 151 | Acid Soluble As (ppm) | 0586 | < 1.4 | | 0.2983 | 0.2976 | 0.0933 | 3 | | 151.30 | 5 |
| 151 | Acid Soluble As (ppm) | 0405 | < 3 | | 0.2983 | 0.2976 | 0.0933 | 3 | | 151.32 | 5 |
| 181 | Acid Soluble Cd (ppm) | 0371 | 0.0045 | 0.0010 | | | | 2 | | 181.30 | 0 |
| 181 | Acid Soluble Cd (ppm) | 0586 | 5.500 | 3.000 | | | | 2 | | 181.30 | 0 |
| 181 | Acid Soluble Cd (ppm) | 0594 | 0.0000 | 0.0000 | | | | 2 | | 181.30 | 4 |
| 181 | Acid Soluble Cd (ppm) | 0585 | < 0.01 | | | | | 2 | | 181.30 | 5 |
| 181 | Acid Soluble Cd (ppm) | 0220 | < 0.1 | | | | | 2 | | 181.99 | 5 |
| 181 | Acid Soluble Cd (ppm) | 0405 | < 1 | | | | | 2 | | 181.32 | 5 |
| 191 | Acid Soluble Cr (ppm) | 0585 | 0.1200 | 0.0000 | 1.730 | 2.227 | 0.6422 | 5 | -0.63 | 191.30 | 0 |
| 191 | Acid Soluble Cr (ppm) | 0594 | 0.5000 | 0.0000 | 1.730 | 2.227 | 0.6422 | 5 | -0.48 | 191.30 | 0 |
| 191 | Acid Soluble Cr (ppm) | 0371 | 0.5295 | 0.0110 | 1.730 | 2.227 | 0.6422 | 5 | -0.47 | 191.30 | 0 |
| 191 | Acid Soluble Cr (ppm) | 0220 | 2.000 | 0.2000 | 1.730 | 2.227 | 0.6422 | 5 | 0.11 | 191.99 | 0 |
| 191 | Acid Soluble Cr (ppm) | 0586 | 5.500 | 3.000 | 1.730 | 2.227 | 0.6422 | 5 | 1.48 | 191.30 | 0 |
| 191 | Acid Soluble Cr (ppm) | 0405 | < 1 | | 1.730 | 2.227 | 0.6422 | 5 | | 191.32 | 5 |
| 202 | Acid Soluble Co (ppm) | 0371 | 0.0035 | 0.0030 | | | | 2 | | 202.30 | 0 |
| 202 | Acid Soluble Co (ppm) | 0586 | 3.000 | 2.000 | | | | 2 | | 202.30 | 0 |
| 202 | Acid Soluble Co (ppm) | 0594 | 0.0000 | 0.0000 | | | | 2 | | 202.30 | 4 |
| 202 | Acid Soluble Co (ppm) | 0585 | < 0.01 | | | | | 2 | | 202.30 | 5 |
| 202 | Acid Soluble Co (ppm) | 0220 | < 0.1 | | | | | 2 | | 202.99 | 5 |
| 202 | Acid Soluble Co (ppm) | 0405 | < 1 | | | | | 2 | | 202.32 | 5 |
| 221 | Acid Soluble Cu (%) | 0405 | 0.0006 | 0.0005 | | | | 1 | | 221.32 | 0 |
| 221 | Acid Soluble Cu (%) | 0371 | 0.0000 | 0.0000 | | | | 1 | | 221.30 | 4 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder PT Z Score | Your Method | Flag |
|---------------|-----------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | Range | | | | |
| 221 | Acid Soluble Cu (%) | 0594 | 0.0000 | 0.0000 | | | | 1 | | 221.33 | 4 |
| 221 | Acid Soluble Cu (%) | 0585 | < 0.0001 | | | | | 1 | | 221.99 | 5 |
| 221 | Acid Soluble Cu (%) | 0586 | < 0.001 | | | | | 1 | | 221.99 | 5 |
| 241 | Acid Soluble Fe (%) | 0371 | 0.0009 | 0.0001 | | | | 1 | | 241.30 | 0 |
| 251 | Acid Soluble Pb (ppm) | 0371 | 0.0015 | 0.0010 | | | | 2 | | 251.30 | 0 |
| 251 | Acid Soluble Pb (ppm) | 0586 | 4.500 | 3.000 | | | | 2 | | 251.30 | 0 |
| 251 | Acid Soluble Pb (ppm) | 0594 | 0.0000 | 0.0000 | | | | 2 | | 251.30 | 4 |
| 251 | Acid Soluble Pb (ppm) | 0585 | < 0.01 | | | | | 2 | | 251.30 | 5 |
| 251 | Acid Soluble Pb (ppm) | 0405 | < 4 | | | | | 2 | | 251.32 | 5 |
| 261 | Acid Soluble Mn (%) | 0371 | 0.0000 | 0.0000 | | | | 0 | | 261.32 | 4 |
| 281 | Acid Soluble Hg (ppm) | 0371 | 0.0030 | 0.0040 | | | | 1 | | 281.30 | 0 |
| 281 | Acid Soluble Hg (ppm) | 0585 | < 0.01 | | | | | 1 | | 281.30 | 5 |
| 281 | Acid Soluble Hg (ppm) | 0220 | < 0.01 | | | | | 1 | | 281.99 | 5 |
| 281 | Acid Soluble Hg (ppm) | 0405 | < 2 | | | | | 1 | | 281.30 | 5 |
| 289 | Acid Soluble Mo (ppm) | 0585 | 0.0450 | 0.0100 | 2.640 | 4.426 | 1.180 | 3 | -0.59 | 289.30 | 0 |
| 289 | Acid Soluble Mo (ppm) | 0594 | 0.1250 | 0.0300 | 2.640 | 4.426 | 1.180 | 3 | -0.57 | 289.30 | 0 |
| 289 | Acid Soluble Mo (ppm) | 0586 | 7.750 | 3.500 | 2.640 | 4.426 | 1.180 | 3 | 1.15 | 289.30 | 0 |
| 289 | Acid Soluble Mo (ppm) | 0220 | < 0.3 | | 2.640 | 4.426 | 1.180 | 3 | | 289.99 | 5 |
| 289 | Acid Soluble Mo (ppm) | 0405 | < 1 | | 2.640 | 4.426 | 1.180 | 3 | | 289.32 | 5 |
| 291 | Acid Soluble Ni (ppm) | 0594 | 0.2700 | 0.0200 | 1.570 | 1.147 | 0.7867 | 3 | -0.92 | 291.30 | 0 |
| 291 | Acid Soluble Ni (ppm) | 0586 | 2.000 | 2.000 | 1.570 | 1.147 | 0.7867 | 3 | 0.30 | 291.30 | 0 |
| 291 | Acid Soluble Ni (ppm) | 0494 | 2.440 | 0.3400 | 1.570 | 1.147 | 0.7867 | 3 | 0.61 | 291.33 | 0 |
| 291 | Acid Soluble Ni (ppm) | 0585 | < 0.01 | | 1.570 | 1.147 | 0.7867 | 3 | | 291.30 | 5 |
| 291 | Acid Soluble Ni (ppm) | 0220 | < 0.1 | | 1.570 | 1.147 | 0.7867 | 3 | | 291.99 | 5 |
| 291 | Acid Soluble Ni (ppm) | 0405 | < 1 | | 1.570 | 1.147 | 0.7867 | 3 | | 291.32 | 5 |
| 301 | Acid Soluble Se (ppm) | 0371 | 0.0100 | 0.0120 | 0.0867 | 0.1040 | 0.0707 | 3 | -0.74 | 301.30 | 0 |
| 301 | Acid Soluble Se (ppm) | 0585 | 0.0450 | 0.0300 | 0.0867 | 0.1040 | 0.0707 | 3 | -0.40 | 301.30 | 0 |
| 301 | Acid Soluble Se (ppm) | 0594 | 0.2050 | 0.1700 | 0.0867 | 0.1040 | 0.0707 | 3 | 1.14 | 301.30 | 0 |
| 301 | Acid Soluble Se (ppm) | 0220 | < 0.3 | | 0.0867 | 0.1040 | 0.0707 | 3 | | 301.99 | 5 |
| 301 | Acid Soluble Se (ppm) | 0405 | < 10 | | 0.0867 | 0.1040 | 0.0707 | 3 | | 301.32 | 5 |
| 321 | Acid Soluble Zn (%) | 0371 | 0.0000 | 0.0000 | | | | 0 | | 321.30 | 4 |
| 321 | Acid Soluble Zn (%) | 0594 | 0.0000 | 0.0000 | | | | 0 | | 321.33 | 4 |
| 321 | Acid Soluble Zn (%) | 0585 | < 0.0001 | | | | | 0 | | 321.99 | 5 |
| 321 | Acid Soluble Zn (%) | 0405 | < 0.0003 | | | | | 0 | | 321.32 | 5 |
| 321 | Acid Soluble Zn (%) | 0586 | < 0.001 | | | | | 0 | | 321.99 | 5 |
| 321 | Acid Soluble Zn (%) | 0593 | < 0.05 | | | | | 0 | | 321.33 | 5 |

Interpreting Z Scores and Flags:

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated.

Notes:

Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. Your offset values are higher (‡) or lower (†) than the Robust Analyte value ± Investigational Allowance. Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder PT Z Score | Your Method | Flag |
|---------------|-----------------|----------|----------|-------|---------------|--------|-------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | Range | | | | |

detection limits but are reported solely for the purpose of this Proficiency Testing program.