



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 62

Sample # 241031

Nitrogen Select PT Scheme

Labs Reporting: 18

Ammonium Sulfate

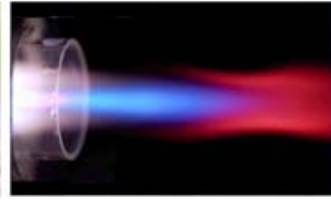
Statistical Summary

Issue Date : 11/30/2024

Method Code	Analyte & Method Sample # 241031	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Horwitz %RSD
001.10	Ammoniacal N, Magnesium Oxide Method (%)	1		4.889									
001.99	Ammoniacal N, Other (%)	5	5	5.961	0.8264	5.961		0.8264	0.4620	13.86%		0.1460	3.06%
005.99	Urea N, Other (%)	4	4	35.39	0.5376	35.39		0.5376	0.3360	1.52%		0.4875	1.68%
010.12	Total N, Salicylic (40%)	1		40.25									
010.60	Total N, Combustion (40%)	12	12	40.45	0.3448	40.43	0.8800	0.3647	0.1316	0.90%	0.97	0.4996	1.57%
010.99	Total N, Other (40%)	4	4	40.40	0.3105	40.40	0.8800	0.3105	0.1941	0.77%	0.82	0.1950	1.57%
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	1		0.0072									
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	1		0.0000									
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	1		0.0003									
143.00	Elemental S, Gravimetric Sulfur - carbon disulfide soluble sulfu	1		0.1200									
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	5	5	5.343	0.3379	5.343		0.3379	0.1889	6.32%		0.1305	3.11%
145.99	Sulfate S, HCl soluble, Other (%)	1		6.960									
148.00	Total S, Combustion (5.5%)	4	4	5.294	0.2726	5.294	0.4647	0.2726	0.1704	5.15%	1.37	0.5367	3.11%
148.01	Total S, Gravimetric - sulfate and elemental (5.5%)	2	2	5.480	0.0141								
148.07	Total S, ICP, test portion as in 2017.02 (5.5%)	4	4	5.449	0.2077	5.449	0.4724	0.2077	0.1298	3.81%	1.02	0.2243	3.10%
148.99	Total S, Other (5.5%)	1		5.100									
149.04	S - HNO3 soluble, ICP (%)	1		5.380									
151.30	Acid Soluble As, ICP (ppm)	3	1	0.5067	0.8603	5.449		0.2077	0.2596	3.81%		0.0400	12.39%
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	3	0	1.213	1.558	5.449		0.2077		3.81%		0.0400	12.39%
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	1		0.4300									
151.99	Acid Soluble As, Other (ppm)	1		0.5000									
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	1		0.0000									
181.30	Acid Soluble Cd, ICP (ppm)	3	1	0.1400	0.2254	5.449		0.2077	0.2596	3.81%		0.0400	12.39%
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	2	0	0.5500	0.6364								
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	1		0.5000									
181.99	Acid Soluble Cd, Other (ppm)	1		0.1000									
191.30	Acid Soluble Cr, ICP (ppm)	3	1	0.3033	0.3001	5.449		0.2077	0.2596	3.81%		0.0400	12.39%
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	2	1	0.8000	0.2828								
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	2	1	0.6650	0.5459								

Method Code	Analyte & Method Sample # 241031	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Horwitz %RSD
191.99	Acid Soluble Cr, Other (ppm)	1		0.6000									
202.30	Acid Soluble Co, ICP (ppm)	3	1	0.2067	0.3408	5.449	2.6347	0.2077	0.2596	3.81%	0.18	0.0400	12.39%
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	2	0	0.5500	0.6364								
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	1		0.5000									
202.99	Acid Soluble Co, Other (ppm)	1		0.1000									
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	1		0.0000									
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	1		0.0002									
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	1		0.0001									
221.99	Acid Soluble Cu, Other (%)	2	0	0.0005	0.0007								
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	1		0.0000									
251.30	Acid Soluble Pb, ICP (ppm)	2	0	0.6000	0.8485								
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	2	1	2.175	2.581								
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	1		1.000									
251.99	Acid Soluble Pb, Other (ppm)	2	2	0.1800	0.2404								
261.32	Acid Soluble Mn, ICP, test portion inorganic 965.09 (%)	1		0.0000									
281.30	Acid Soluble Hg, ICP (ppm)	2	0	1.000	1.414								
281.99	Acid Soluble Hg, Other (ppm)	1		0.1400									
289.30	Acid Soluble Mo, ICP (ppm)	2	1	0.3325	0.3783								
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	2	1	0.5750	0.6010								
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	2	0	0.2864	0.3021								
289.99	Acid Soluble Mo, Other (ppm)	1		0.2000									
291.30	Acid Soluble Ni, ICP (ppm)	3	1	0.2783	0.3714	0.1800		0.2404	0.3005	133.56%		0.1500	20.71%
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	2	1	0.6500	0.4950								
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	1		0.5000									
291.99	Acid Soluble Ni, Other (ppm)	1		0.3000									
301.30	Acid Soluble Se, ICP (ppm)	2	1	0.0150	0.0212								
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	3	1	3.480	5.647	0.1800		0.2404	0.3005	133.56%		0.1500	20.71%
301.99	Acid Soluble Se, Other (ppm)	1		0.3500									
311.33	Sodium, ICP, test portion as in 2017.02 (%)	1		0.0041									
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	1		0.0000									
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	2	2	0.0005	0.0002								
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	2	1	0.0009	0.0002								
321.99	Acid Soluble Zn, Other (%)	1		6.900									

The Method IA Ratio = 2.33 * Robust SD / IA at the Method 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.



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Sample # 241031

Nitrogen Select PT Scheme

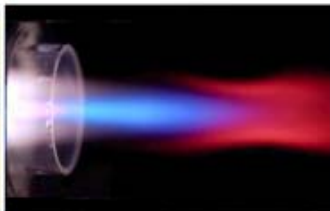
Ammonium Sulfate

Method Precision Report

Issue Date : 11/30/2024

Method Code	Analyte & Method	# Tests Submitted	# Tests Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
001.99	Ammoniacal N, Other (%)	5	5	5.961	0.8264	0.8220	0.1214	0.8309	13.79%	2.04%	13.94%	6.842
010.60	Total N, Combustion (40%)	12	12	40.45	0.3448		0.5214			1.29%		

Notes: Precision data calculated when 5 or more Tests included.



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 62

Sample # 241031

Nitrogen Select PT Scheme

Labs Reporting: 18

Ammonium Sulfate

Lab Values

Issue Date : 11/30/2024

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0547	4.889	0.0050				1			0
001.99	Ammoniacal N, Other (%)	0584	5.065	0.2500	5.961	0.8264	0.1460	5	-1.08		0
001.99	Ammoniacal N, Other (%)	0593	5.110	0.2000	5.961	0.8264	0.1460	5	-1.03		0
001.99	Ammoniacal N, Other (%)	0220	6.255	0.0700	5.961	0.8264	0.1460	5	0.36		0
001.99	Ammoniacal N, Other (%)	0586	6.510	0.2000	5.961	0.8264	0.1460	5	0.66		0
001.99	Ammoniacal N, Other (%)	0405	6.865	0.0100	5.961	0.8264	0.1460	5	1.09		0
005.99	Urea N, Other (%)	0547	34.85	0.2000	35.39	0.5376	0.4875	4	-1.01		0
005.99	Urea N, Other (%)	0584	35.05	0.2200	35.39	0.5376	0.4875	4	-0.64		0
005.99	Urea N, Other (%)	0405	35.67	0.1100	35.39	0.5376	0.4875	4	0.50		0
005.99	Urea N, Other (%)	0593	36.01	1.420	35.39	0.5376	0.4875	4	1.15		0
010.12	Total N, Salicylic (40%)	0602	40.25	0.1000				1			0
010.60	Total N, Combustion (40%)	0086	39.90	0.6120	40.43	0.3647	0.4996	12	-1.48	OK	0
010.60	Total N, Combustion (40%)	0494	40.02	1.490	40.43	0.3647	0.4996	12	-1.15	OK	0
010.60	Total N, Combustion (40%)	0220	40.19	0.0200	40.43	0.3647	0.4996	12	-0.67	OK	0
010.60	Total N, Combustion (40%)	0185	40.21	0.1960	40.43	0.3647	0.4996	12	-0.62	OK	0
010.60	Total N, Combustion (40%)	0371	40.30	0.0000	40.43	0.3647	0.4996	12	-0.37	OK	0
010.60	Total N, Combustion (40%)	0131	40.50	0.1870	40.43	0.3647	0.4996	12	0.18	OK	0
010.60	Total N, Combustion (40%)	0055	40.51	1.065	40.43	0.3647	0.4996	12	0.22	OK	0
010.60	Total N, Combustion (40%)	0586	40.53	0.2900	40.43	0.3647	0.4996	12	0.25	OK	0
010.60	Total N, Combustion (40%)	0561	40.57	0.0600	40.43	0.3647	0.4996	12	0.37	OK	0
010.60	Total N, Combustion (40%)	0040	40.75	0.1000	40.43	0.3647	0.4996	12	0.87	OK	0
010.60	Total N, Combustion (40%)	0405	40.76	0.0200	40.43	0.3647	0.4996	12	0.89	OK	0
010.60	Total N, Combustion (40%)	0593	41.12	1.620	40.43	0.3647	0.4996	12	1.88	OK	0
010.99	Total N, Other (40%)	0513	40.03	0.0800	40.40	0.3105	0.1950	4	-1.18		0
010.99	Total N, Other (40%)	0602	40.25	0.1000	40.40	0.3105	0.1950	4	-0.47		0
010.99	Total N, Other (40%)	0517	40.60	0.2000	40.40	0.3105	0.1950	4	0.66		0
010.99	Total N, Other (40%)	0615	40.70	0.4000	40.40	0.3105	0.1950	4	0.98		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0494	0.0072	0.0008				1			0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000				0			4
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0494	< 0.0003					0			5
143.00	Elemental S, Gravimetric Sulfur - carbon disulfide soluble sulfur	0405	0.1200	0.0000				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0220	4.775	0.0100	5.343	0.3379	0.1305	5	-1.68		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0405	5.370	0.0000	5.343	0.3379	0.1305	5	0.08		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0494	5.372	0.0520	5.343	0.3379	0.1305	5	0.08		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0584	5.585	0.3500	5.343	0.3379	0.1305	5	0.71		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0561	5.615	0.1100	5.343	0.3379	0.1305	5	0.80		0
145.99	Sulfate S, HCl soluble, Other (%)	0593	6.960	2.900				1			0
148.00	Total S, Combustion (5.5%)	0593	4.895	1.530	5.294	0.2726	0.5367	4	-1.46		0
148.00	Total S, Combustion (5.5%)	0405	5.370	0.0600	5.294	0.2726	0.5367	4	0.28		0
148.00	Total S, Combustion (5.5%)	0371	5.400	0.0000	5.294	0.2726	0.5367	4	0.39		0
148.00	Total S, Combustion (5.5%)	0131	5.510	0.0200	5.294	0.2726	0.5367	4	0.79		0
148.01	Total S, Gravimetric - sulfate and elemental (5.5%)	0055	5.470	0.0700				2			0
148.01	Total S, Gravimetric - sulfate and elemental (5.5%)	0405	5.490	0.0000				2			0
148.07	Total S, ICP, test portion as in 2017.02 (5.5%)	0086	5.175	0.1165	5.449	0.2077	0.2243	4	-1.32		0
148.07	Total S, ICP, test portion as in 2017.02 (5.5%)	0040	5.400	0.0000	5.449	0.2077	0.2243	4	-0.24		0
148.07	Total S, ICP, test portion as in 2017.02 (5.5%)	0513	5.600	0.0800	5.449	0.2077	0.2243	4	0.73		0
148.07	Total S, ICP, test portion as in 2017.02 (5.5%)	0494	5.620	0.4764	5.449	0.2077	0.2243	4	0.82		0
148.99	Total S, Other (5.5%)	0220	5.100	0.0000				1			0
149.04	S - HNO3 soluble, ICP (%)	0586	5.380	0.4000				1			0
151.30	Acid Soluble As, ICP (ppm)	0593	0.0200	0.0000				1			0
151.30	Acid Soluble As, ICP (ppm)	0371	0.0000	0.0000				1			4
151.30	Acid Soluble As, ICP (ppm)	0586	< 1.5					1			5
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0086	< 0.14					0			5
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0220	< 0.5					0			5
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0405	< 3					0			5
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0494	< 0.43					0			5
151.99	Acid Soluble As, Other (ppm)	0220	< 0.5					0			5
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0371	0.0000	0.0000				0			4
181.30	Acid Soluble Cd, ICP (ppm)	0593	0.0200	0.0000				1			0
181.30	Acid Soluble Cd, ICP (ppm)	0371	0.0000	0.0000				1			4
181.30	Acid Soluble Cd, ICP (ppm)	0586	< 0.4					1			5
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0220	< 0.1					0			5
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0405	< 1					0			5
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0086	< 0.5					0			5
181.99	Acid Soluble Cd, Other (ppm)	0220	< 0.1					0			5
191.30	Acid Soluble Cr, ICP (ppm)	0593	0.3100	0.0200				1			0
191.30	Acid Soluble Cr, ICP (ppm)	0371	0.0000	0.0000				1			4
191.30	Acid Soluble Cr, ICP (ppm)	0586	< 0.6					1			5
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0220	0.6000	0.0000				1			0
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0405	< 1					1			5
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0086	1.051	0.1519				1			0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0494	< 0.279					1			5
191.99	Acid Soluble Cr, Other (ppm)	0220	0.6000	0.0000				1			0
202.30	Acid Soluble Co, ICP (ppm)	0593	0.0200	0.0000				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
202.30	Acid Soluble Co, ICP (ppm)	0371	0.0000	0.0000				1			4
202.30	Acid Soluble Co, ICP (ppm)	0586	< 0.6					1			5
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0220	< 0.1					0			5
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0405	< 1					0			5
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0086	< 0.5					0			5
202.99	Acid Soluble Co, Other (ppm)	0220	< 0.1					0			5
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000				0			4
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0405	< 0.0002					0			5
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0086	< 0.0001					0			5
221.99	Acid Soluble Cu, Other (%)	0586	0.0000	0.0000				0			4
221.99	Acid Soluble Cu, Other (%)	0593	< 0.001					0			5
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000				0			4
251.30	Acid Soluble Pb, ICP (ppm)	0371	0.0000	0.0000				0			4
251.30	Acid Soluble Pb, ICP (ppm)	0586	< 1.2					0			5
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0220	0.3500	0.1000				1			0
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0405	< 4					1			5
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0086	< 1					0			5
251.99	Acid Soluble Pb, Other (ppm)	0593	0.0100	0.0000				2			0
251.99	Acid Soluble Pb, Other (ppm)	0220	0.3500	0.3000				2			0
261.32	Acid Soluble Mn, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000				0			4
281.30	Acid Soluble Hg, ICP (ppm)	0371	0.0000	0.0000				0			4
281.30	Acid Soluble Hg, ICP (ppm)	0405	< 2					0			5
281.99	Acid Soluble Hg, Other (ppm)	0086	< 0.14					0			5
289.30	Acid Soluble Mo, ICP (ppm)	0593	0.0650	0.0100				1			0
289.30	Acid Soluble Mo, ICP (ppm)	0586	< 0.6					1			5
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	0220	0.1500	0.1000				1			0
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	0405	< 1					1			5
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0494	< 0.0727					0			5
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0086	< 0.5					0			5
289.99	Acid Soluble Mo, Other (ppm)	0220	0.2000	0.0000				1			0
291.30	Acid Soluble Ni, ICP (ppm)	0593	0.1350	0.0100				1			0
291.30	Acid Soluble Ni, ICP (ppm)	0371	0.0000	0.0000				1			4
291.30	Acid Soluble Ni, ICP (ppm)	0586	< 0.7					1			5
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0220	0.3000	0.0000				1			0
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0405	< 1					1			5
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0086	< 0.5					0			5
291.99	Acid Soluble Ni, Other (ppm)	0220	0.3000	0.0000				1			0
301.30	Acid Soluble Se, ICP (ppm)	0593	0.0300	0.0200				1			0
301.30	Acid Soluble Se, ICP (ppm)	0371	0.0000	0.0000				1			4
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0220	0.3000	0.0000				1			0
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0086	< 0.14					1			5
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0405	< 10					1			5
301.99	Acid Soluble Se, Other (ppm)	0220	0.3500	0.1000				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0494	0.0041	0.0000				1			0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000				0			4
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0405	0.0004	0.0001				2			0
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0220	0.0006	0.0002				2			0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0086	0.0007	0.0002				1			0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0593	< 0.001					1			5
321.99	Acid Soluble Zn, Other (%)	0586	6.900	0.8000				1			0

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. Identical duplicates not included in calculation of Rob R-bar. IA Status describes where your result is relative to the Assigned Value ± IA. Red indicates Higher or Lower and Green indicates within the IA range about the Robust mean. Method codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for