

MAGRUDER - Fertilizer Check Sample No. - 200111 Grade 5-10-15

- Pass 1 Results for 79 Labs - - Pass 2 Results for 78 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	1	6.0200	0.0283	0.0400	1	6.0200	0.0283	0.0400
Ammoniacal Nitrogen, Other		001.99	4	5.3338	0.8297	0.1125	3	5.3733	0.9708	0.0267
Method Group 001.XX PCT			5	5.4710	0.7869	0.0980	4	5.5350	0.8735	0.0300
Nitrate Nitrogen, Other		002.99	1	0.0350	0.0071	0.0100	1	0.0350	0.0071	0.0100
Ammon & Nitrate N, Devarda	892.01	009.10	6	5.3261	0.5776	0.0257	5	5.4010	0.6082	0.0140
Total Nitrogen, Reduced Iron		010.10	1	6.3800	0.0566	0.0800	1	6.3800	0.0566	0.0800
Total Nitrogen, Modified Comprehensive	978.02	010.11	10	6.3781	0.0938	0.0848	10	6.3781	0.0938	0.0848
Total Nitrogen, Salicylic	955.04D	010.12	7	6.3575	0.0659	0.0469	7	6.3575	0.0659	0.0469
Total Nitrogen, Comprehensive	970.02	010.17	1	6.3400	0.0990	0.1400	1	6.3400	0.0990	0.1400
Total Nitrogen, Combustion		010.60	45	6.4481	0.1716	0.0980	43	6.4415	0.1639	0.0816
Total Nitrogen, Other		010.99	5	6.3993	0.1817	0.0631	4	6.3729	0.1823	0.0113
Method Group 010.XX PCT			69	6.4227	0.1561	0.0887	67	6.4177	0.1494	0.0779
Total Phosphate, Grav Quimociac	962.02	020.10	8	12.723	0.2524	0.2038	8	12.723	0.2524	0.2038
Total Phosphate, Spectrometric	958.01	020.20	15	12.633	0.1550	0.0728	14	12.638	0.1490	0.0480
Total Phosphate, Alka. Quimociac	969.02	020.30	1	12.586	0.0657	0.0929	1	12.586	0.0657	0.0929
Total Phosphate, Automated	978.01	020.40	7	12.784	0.2285	0.1643	6	12.767	0.1978	0.0800
Total Phosphate, ICP		020.50	3	12.832	0.3744	0.0197	3	12.832	0.3744	0.0197
Total Phosphate, Other		020.99	1	12.750	0.0283	0.0400	1	12.750	0.0283	0.0400
Method Group 020.XX PCT			35	12.703	0.2223	0.1161	32	12.709	0.2104	0.0792
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.0700	0.0000	0.0000	1	0.0700	0.0000	0.0000
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.0850	0.0191	0.0100	2	0.0850	0.0191	0.0100
Insoluble Phosphate, Automated	978.01	030.40	2	0.0700	0.0082	0.0100	2	0.0700	0.0082	0.0100
Insoluble Phosphate, Other		030.99	1	0.0595	0.0233	0.0330	1	0.0595	0.0233	0.0330
Method Group 030.XX PCT			6	0.0733	0.0161	0.0122	6	0.0733	0.0161	0.0122
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	12.895	0.0636	0.0900	1	12.895	0.0636	0.0900
InDir Available Phosphate, Spectrometri	960.02	040.20	2	12.690	0.0920	0.0500	2	12.690	0.0920	0.0500
InDir Available Phosphate, Automated ..	960.02	040.40	4	12.659	0.3638	0.2275	4	12.659	0.3638	0.2275
InDir Available Phosphate, Other		040.99	1	12.540	0.0849	0.1200	1	12.540	0.0849	0.1200
Method Group 040.XX PCT			8	12.681	0.2707	0.1525	7	12.663	0.2526	0.0771
Dir Available Phosphate, Grav Quim	960.03E	041.10	16	12.729	0.1415	0.0963	16	12.729	0.1415	0.0963
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	12.798	0.6185	0.0638	3	12.798	0.6185	0.0638
Dir Available Phosphate, Alka. Quim ...	960.03C	041.30	1	12.660	0.1697	0.2400	1	12.660	0.1697	0.2400
Dir Available Phosphate, Automated	978.01	041.40	5	12.664	0.1543	0.0390	5	12.664	0.1543	0.0390
Dir Available Phosphate, ICP		041.50	8	12.705	0.5050	0.2249	8	12.705	0.5050	0.2249
Dir Available Phosphate, EDTA Extract .	993.01	041.60	8	12.569	0.2785	0.0797	8	12.569	0.2785	0.0797
Dir Available Phosphate, Other		041.99	1	13.050	0.0707	0.1000	1	13.050	0.0707	0.1000
Method Group 041.XX PCT			43	12.683	0.3314	0.1266	41	12.696	0.3179	0.0994
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	9.9550	0.2475	0.3500	1	9.9550	0.2475	0.3500
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	9.8350	0.3688	0.2900	2	9.8350	0.3688	0.2900

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Water Soluble Phosphate, Other		048.99	2	11.033	0.6422	0.2550	2	11.033	0.6422	0.2550
Method Group 048.XX PCT			5	10.338	0.7410	0.2880	5	10.338	0.7410	0.2880
Soluble Potash, STPB Oxalate	958.02	050.00	24	15.455	0.2461	0.0825	23	15.447	0.2460	0.0730
Soluble Potash, STPB Citrate	969.04	050.10	1	16.061	0.1547	0.2188	1	16.061	0.1547	0.2188
Soluble Potash, AA (Oxalate)		050.30	7	15.105	0.3827	0.1047	7	15.105	0.3827	0.1047
Soluble Potash, ICP (Oxalate)		050.50	4	15.128	0.2620	0.0753	4	15.128	0.2620	0.0753
Soluble Potash, ICP (Citrate)		050.51	7	15.381	0.3205	0.1114	7	15.381	0.3205	0.1114
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	15.257	0.4901	0.0677	4	15.257	0.4901	0.0677
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	15.512	0.2315	0.1386	6	15.458	0.1657	0.0700
Soluble Potash, Other		050.99	16	15.458	0.3665	0.1490	15	15.428	0.3496	0.1196
Method Group 050.XX PCT			72	15.397	0.3703	0.1101	69	15.381	0.3647	0.0932
Free Water, Vacuum Oven	965.08B	060.00	4	1.0589	0.1451	0.0335	4	1.0589	0.1451	0.0335
Free Water, Other		060.99	1	1.2700	0.0141	0.0200	1	1.2700	0.0141	0.0200
Method Group 060.XX PCT			5	1.1011	0.1559	0.0308	5	1.1011	0.1559	0.0308
Acid Soluble Calcium, AA	945.04	101.00	1	10.150	0.5515	0.7800	1	10.150	0.5515	0.7800
Acid Soluble Calcium, ICP		101.30	5	11.960	0.6814	0.2269	5	11.960	0.6814	0.2269
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	11.700	0.2828	0.4000	1	11.700	0.2828	0.4000
Acid Soluble Calcium, Other		101.99	1	11.565	0.0071	0.0100	1	11.565	0.0071	0.0100
Method Group 101.XX PCT			8	11.652	0.8182	0.2906	8	11.652	0.8182	0.2906
Acid Soluble Magnesium, AA	984.01	121.00	19	1.9710	0.0673	0.0318	19	1.9710	0.0673	0.0318
Acid Soluble Magnesium, ICP		121.30	17	2.0231	0.0825	0.0465	17	2.0231	0.0825	0.0465
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	2.0417	0.0136	0.0192	1	2.0417	0.0136	0.0192
Method Group 121.XX PCT			38	1.9892	0.0903	0.0380	37	1.9968	0.0781	0.0382
Water Soluble Magnesium, AA		131.00	2	0.6700	0.2776	0.0200	2	0.6700	0.2776	0.0200
Sulfur, Gravimetric	980.02a	144.01	9	6.4626	0.1440	0.0317	8	6.4724	0.1479	0.0177
Sulfur, Gravimetric	980.02b	144.02	1	6.5300	0.0849	0.1200	1	6.5300	0.0849	0.1200
Sulfur, Gravimetric	980.02c	144.03	1	6.4300	0.0141	0.0200	1	6.4300	0.0141	0.0200
Sulfur, Other		144.99	20	6.4321	0.1874	0.1275	19	6.4485	0.1705	0.1122
Method Group 144.XX PCT			31	6.4440	0.1697	0.0960	29	6.4552	0.1554	0.0748
Arsenic, ICP		151.30	3	6.0036	0.6441	0.4188	3	6.0036	0.6441	0.4188
Arsenic, Other		151.99	1	5.7000	0.2828	0.4000	1	5.7000	0.2828	0.4000
Method Group 151.XX PPM			4	5.9277	0.5723	0.4141	4	5.9277	0.5723	0.4141
Acid Soluble Boron, Spectrometric	982.01	165.00	9	0.0276	0.0053	0.0011	9	0.0276	0.0053	0.0011
Acid Soluble Boron, Other		165.99	10	0.0248	0.0046	0.0019	9	0.0239	0.0037	0.0012
Method Group 165.XX PCT			19	0.0261	0.0051	0.0015	17	0.0249	0.0033	0.0011
Cadmium, Atomic Absorption		181.00	2	1.3950	0.1237	0.0300	2	1.3950	0.1237	0.0300
Cadmium, ICP		181.30	7	1.3634	0.3235	0.1476	6	1.3656	0.3350	0.0889
Cadmium, Other		181.99	1	1.4000	0.0000	0.0000	1	1.4000	0.0000	0.0000
Method Group 181.XX PPM			10	1.3734	0.2725	0.1094	9	1.3760	0.2749	0.0659

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Water Soluble Chlorine, Titrimetric ...	928.02	190.00	16	2.3724	0.2229	0.0447	15	2.3549	0.2182	0.0376
Water Soluble Chlorine, Other		190.99	7	2.1559	0.1369	0.0194	6	2.1627	0.1463	0.0076
Method Group 190.XX PCT			23	2.3065	0.2231	0.0370	21	2.2716	0.1991	0.0267
Chromium, Atomic Absorption		191.00	1	59.000	0.0000	0.0000	1	59.000	0.0000	0.0000
Chromium, ICP		191.30	4	54.175	5.9455	3.8654	4	54.175	5.9455	3.8654
Method Group 191.XX PPM			5	55.140	5.6242	3.0923	5	55.140	5.6242	3.0923
Acid Soluble Cobalt, AA		202.00	1	5.3912	0.0863	0.1221	1	5.3912	0.0863	0.1221
Acid Soluble Cobalt, ICP	965.11	202.30	6	6.3787	1.9197	0.2240	6	6.3787	1.9197	0.2240
Acid Soluble Cobalt, Other		202.99	2	5.9500	4.5618	0.1000	2	5.9500	4.5618	0.1000
Method Group 202.XX PPM			9	6.1737	2.4841	0.1851	8	5.6585	2.1052	0.1270
Acid Soluble Copper, Atomic Absorption	975.01	221.00	18	0.0565	0.0048	0.0025	16	0.0567	0.0047	0.0015
Acid Soluble Copper, ICP		221.30	19	0.0556	0.0051	0.0031	18	0.0553	0.0048	0.0024
Acid Soluble Copper, Other		221.99	2	0.0519	0.0007	0.0007	2	0.0519	0.0007	0.0007
Method Group 221.XX PCT			39	0.0558	0.0049	0.0027	35	0.0558	0.0047	0.0017
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	17	0.5961	0.0334	0.0133	16	0.5935	0.0319	0.0110
Acid Soluble Iron, ICP		241.30	21	0.5752	0.0653	0.0179	19	0.5809	0.0589	0.0131
Acid Soluble Iron, Other		241.99	1	0.4854	0.0057	0.0080	1	0.4854	0.0057	0.0080
Method Group 241.XX PCT			40	0.5775	0.0619	0.0156	37	0.5789	0.0583	0.0120
Lead, Atomic Absorption		251.00	1	12.963	0.0394	0.0557	1	12.963	0.0394	0.0557
Lead, ICP		251.30	9	12.254	2.5152	0.8008	9	12.254	2.5152	0.8008
Lead, Other		251.99	1	15.500	0.2828	0.4000	1	15.500	0.2828	0.4000
Method Group 251.XX PPM			11	12.613	2.4579	0.6966	11	12.613	2.4579	0.6966
Acid Soluble Manganese, AA	972.02a	261.00	12	0.0630	0.0074	0.0041	11	0.0621	0.0065	0.0029
Acid Soluble Manganese, AA	972.02b	261.11	4	0.0599	0.0024	0.0031	4	0.0599	0.0024	0.0031
Acid Soluble Manganese, ICP	972.02a	261.30	18	0.0539	0.0058	0.0017	17	0.0538	0.0060	0.0014
Acid Soluble Manganese, Other		261.99	3	0.0525	0.0063	0.0028	3	0.0525	0.0063	0.0028
Method Group 261.XX PCT			38	0.0576	0.0078	0.0033	35	0.0566	0.0066	0.0020
Mercury, Other		281.99	1	0.0200	0.0000	0.0000	1	0.0200	0.0000	0.0000
Molybdenum, ICP		289.30	7	5.3331	0.6421	0.2295	7	5.3331	0.6421	0.2295
Molybdenum, Other		289.99	1	6.5000	0.7071	1.0000	1	6.5000	0.7071	1.0000
Method Group 289.XX PPM			8	5.4790	0.7413	0.3258	8	5.4790	0.7413	0.3258
Nickel, ICP		291.30	7	21.758	4.2615	0.5444	7	21.758	4.2615	0.5444
Nickel, Other		291.99	2	20.000	7.1293	2.8000	2	20.000	7.1293	2.8000
Method Group 291.XX PPM			9	21.367	4.8396	1.0457	8	22.288	4.2393	0.7264
Sodium, Atomic Absorption	983.04	311.00	1	0.2105	0.0035	0.0050	1	0.2105	0.0035	0.0050
Sodium, Other		311.99	4	0.2243	0.0179	0.0085	4	0.2243	0.0179	0.0085
Method Group 311.XX PCT			5	0.2216	0.0168	0.0078	5	0.2216	0.0168	0.0078
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	16	0.0832	0.0051	0.0019	15	0.0832	0.0052	0.0016
Acid Soluble Zin, ICP		321.30	19	0.0825	0.0071	0.0028	18	0.0824	0.0072	0.0024

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Acid Soluble Zinc, Other		321.99	3	0.0750	0.0081	0.0008	3	0.0750	0.0081	0.0008
Method Group 321.XX PCT			39	0.0819	0.0070	0.0024	37	0.0821	0.0067	0.0021
Water Soluble Zinc, ICP		325.30	1	0.0787	0.0095	0.0134	1	0.0787	0.0095	0.0134

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 001.10	--	--	Method 010.11	--	--	Method 010.60	--	--	Method 010.99	--	--	Method 010.XX	--
381	6.0200	.71	Avg	6.3781		029	6.5150	.46	362	6.2850	-.48	137	6.4050	-.09
			029	6.3150	-.69	009	6.4850	.43	177	6.2180	-.85	296	6.4050	-.09
--	Method 001.99	--	211	6.3200	-.75	142	6.4950	.36	072	4.9950 S	-7.57	351	6.4015	-.12
096	6.6250	1.29	220	6.3050	-.80	334	6.5000	.36				330	6.4000	-.12
Avg	5.3733		028	6.3250	-.98	262	6.4850	.31	--	Method 010.XX	--	148	6.4000	-.14
407	5.2150 R	-.25	414	6.3000	-1.05	157	6.4750	.21	049	18.065 s	77.98	394	6.4000	-.14
320	4.8000	-.59				389	6.4700	.18	007	6.7000 R	2.32	233	6.4100	-.14
193	4.6950	-.70	--	Method 010.12	--	372	6.4600	.13	247	6.7400	2.28	041	6.4000	-.18
			185	6.4250	1.23	Avg	6.4415		220	6.7100	2.07	232	6.3800	-.29
--	Method 001.XX	--	137	6.4050	.73	296	6.4050	-.22	095	6.6900	1.83	131	6.3750	-.29
096	6.6250	1.25	351	6.4015	.68	233	6.4100	-.23	360	6.6600	1.81	028	6.3900	-.33
381	6.0200	.56	Avg	6.3575		330	6.4000	-.25	401	6.6800	1.76	072	6.3800	-.37
Avg	5.5350		416	6.3119	-.70	394	6.4000	-.26	040	6.4800 R	1.72	324	6.3900	-.38
407	5.2150 R	-.42	397	6.3538	-.71	041	6.4000	-.28	072	6.6600	1.67	234	6.3600	-.41
320	4.8000	-.84	162	6.3500	-.77	390	6.4300	-.31	405	6.6600	1.62	397	6.3538	-.53
193	4.6950	-.96	326	6.2550	-1.56	232	6.3800	-.39	369	6.6350	1.47	162	6.3500	-.56
			309	5.8000 s	-8.99	028	6.3900	-.40	361	6.5950	1.20	153	6.3285	-.60
--	Method 002.99	--				131	6.3750	-.41	024	6.5050	1.08	029	6.3150	-.69
288	0.0350	-.71	--	Method 010.17	--	324	6.3900	-.44	070	6.4900	1.00	102	6.3400	-.70
			102	6.3400	.71	234	6.3600	-.51	025	6.5550	.97	211	6.3200	-.71
--	Method 009.10	--				024	6.3950	-.70	415	6.4487	.95	416	6.3119	-.71
381	6.4050	1.65	--	Method 010.60	--	407	6.3100	-.81	377	6.5300	.92	024	6.3950	-.72
030	5.7000	.49	049	18.065 s	70.90	023	6.3150	-.82	325	6.5550	.92	407	6.3100	-.73
Avg	5.4010		007	6.7000 R	1.99	381	6.3700	-.96	275	6.4750	.86	023	6.3150	-.75
090	4.9750	-.70	247	6.7400	1.94	027	6.2800	-1.00	114	6.5100	.74	220	6.3050	-.76
258	4.9750	-.70	220	6.7100	1.75	136	6.2700	-1.11	029	6.5150	.66	028	6.3250	-.80
392	4.9500	-.74	040	6.4800 R	1.54	231	6.2600	-1.11	009	6.4850	.58	414	6.3000	-.88
169	4.9514 R	-.74	095	6.6900	1.52	057	6.1950	-1.50	334	6.5000	.55	362	6.2850	-.89
			360	6.6600	1.52	035	6.1650	-1.69	142	6.4950	.54	027	6.2800	-.94
--	Method 010.10	--	401	6.6800	1.46	043	6.1650	-1.71	262	6.4850	.48	381	6.3700	-.99
072	6.3800	.71	072	6.6600	1.38	292	6.0600	-2.33	157	6.4750	.39	231	6.2600	-1.06
			369	6.6350	1.20	393	3.9195 s	-21.66	389	6.4700	.36	136	6.2700	-1.07
--	Method 010.11	--	361	6.5950	.95				390	6.4300	.34	326	6.2550	-1.09
415	6.4487	1.65	070	6.4900	.85	--	Method 010.99	--	185	6.4250	.31	177	6.2180	-1.34
114	6.5100	1.54	025	6.5550	.74	405	6.6600	1.58	372	6.4600	.29	057	6.1950	-1.49
288	6.4300	.56	275	6.4750	.73	024	6.5050 R	1.04	288	6.4300	.11	035	6.1650	-1.70
322	6.4273	.52	377	6.5300	.73	Avg	6.3729		322	6.4273	.06	043	6.1650	-1.72
148	6.4000	.26	325	6.5550	.69	153	6.3285	-.25	Avg	6.4177		292	6.0600	-2.40

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 010.XX	--	--	Method 020.40	--	--	Method 020.XX	--	--	Method 030.99	--	--	Method 040.XX	--
309	5.8000 s	-4.35	394	13.000	1.23	096	12.740	.16	320	0.0595	.71	405	12.540	-.54
072	4.9950 s	-9.54	142	12.920	.78	Avg	12.709					193	12.190	-1.87
393	3.9195 s	-23.66	247	12.865	.55	220	12.685	-.13	--	Method 030.XX	--			
			Avg	12.767		292	12.695	-.14	193	0.2850 s	13.22	--	Method 041.10	--
--	Method 020.10	--	096	12.740	-.14	288	12.585	-.60	247	0.1000	1.78	041	12.915	1.62
095	12.980	1.20	035	12.600	-.93	416	12.586	-.62	407	0.0750	.33	322	12.927	1.42
114	12.930	1.01	193	12.475	-1.48	035	12.600	-.64	Avg	0.0733		296	12.885	1.22
090	12.965	.97				162	12.670	-.78	220	0.0700	-.20	072	12.840	.83
148	12.790	.27	--	Method 020.50	--	169	12.552	-.79	090	0.0700	-.20	009	12.815	.69
Avg	12.723		361	13.265	1.16	414	12.530	-.85	096	0.0650	-.60	211	12.790	.45
162	12.670	-.67	Avg	12.832		232	12.520	-.90	320	0.0595	-1.34	131	12.750	.45
414	12.530	-.77	330	12.800	-.10	324	12.515	-.96				137	12.745	.34
030	12.450	-1.10	157	12.430	-1.07	309	12.500	-.99	--	Method 040.10	--	057	12.735	.25
300	12.470	-1.33	381	11.650 S	-3.16	193	12.475	-1.11	090	12.895	.71	Avg	12.729	
			389	11.150 S	-4.49	372	12.475	-1.12				233	12.680	-.37
--	Method 020.20	--				390	12.570 R	-1.20	--	Method 040.20	--	040	12.655	-.52
392	12.930	1.96	--	Method 020.99	--	030	12.450	-1.25	247	12.765	.90	029	12.640 X	-.63
334	12.800	1.09	320	12.750	.71	157	12.430	-1.32	Avg	12.690		326	12.625	-.75
231	12.800	1.09	Avg	12.750		234	12.430	-1.33	220	12.615	-.83	136	12.625	-.77
369	12.735	.67	153	5.5396 S	-254.93	300	12.470 R	-1.54				028	12.550	-1.31
362	12.710	.63				381	11.650 s	-5.04	--	Method 040.40	--	414	12.485	-1.97
292	12.695	.42	--	Method 020.XX	--	389	11.150 s	-7.41	407	12.810	1.02			
220	12.685	.33	361	13.265	2.64	153	5.5396 s	-34.08	394	12.965	.89	--	Method 041.20	--
Avg	12.638		407	12.885 R	1.80				096	12.670	.04	415	13.593	1.29
288	12.585	-.39	095	12.980	1.50	--	Method 030.10	--	Avg	12.659		Avg	12.798	
169	12.552	-.69	394	13.000	1.42	090	0.0700	.00	193	12.190	-1.29	262	12.445	-.57
232	12.520	-.80	114	12.930	1.27							362	12.355	-.72
324	12.515	-.90	090	12.965	1.24	--	Method 030.20	--	--	Method 040.99	--			
309	12.500	-.93	392	12.930	1.05	247	0.1000	.94	405	12.540	.71	--	Method 041.30	--
372	12.475	-1.11	142	12.920	1.01	Avg	0.0850					260	12.660	-.71
234	12.430	-1.41	247	12.865	.77	220	0.0700	-.78	--	Method 040.XX	--			
390	12.570 R	-1.48	330	12.800	.44				407	12.810 R	1.47	--	Method 041.40	--
			231	12.800	.43	--	Method 030.40	--	394	12.965	1.27	027	12.808	.93
--	Method 020.30	--	334	12.800	.43	193	0.2850 S	26.40	090	12.895	.94	131	12.760	.68
416	12.586	.71	148	12.790	.39	407	0.0750	.87	247	12.765	.43	029	12.720 X	.37
			362	12.710	.29	Avg	0.0700		096	12.670	.05	Avg	12.664	
--	Method 020.40	--	320	12.750	.22	096	0.0650	-.87	Avg	12.663		025	12.630	-.34
407	12.885 R	1.80	369	12.735	.17				220	12.615	-.20	072	12.400	-1.71

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 041.40	--	--	Method 041.XX	--	--	Method 048.20	--	--	Method 050.00	--	--	Method 050.60	--
049	12.110 s	-4.31	072	12.840	.47	362	10.105	.97	296	15.285	-.67	390	16.740 S	3.03
			009	12.815	.40	Avg	9.8350		231	15.180	-1.16	169	15.892	1.30
--	Method 041.50	--	296	12.810	.39	193	9.5650	-.75	131	15.115	-1.37	288	15.420	.33
007	13.350	1.31	027	12.808	.35				090	14.995	-1.84	Avg	15.257	
361	13.275	1.13	211	12.790	.30	--	Method 048.99	--	372	14.925	-2.12	131	15.065	-.40
393	13.124	.83	131	12.750	.25	275	11.565	.90	300	14.500 s	-3.85	309	14.650	-1.24
360	12.745	.63	351	12.736	.25	Avg	11.033							
Avg	12.705		131	12.760	.24	247	10.500	-.83	--	Method 050.10	--	--	Method 050.61	--
023	12.475	-.49	137	12.745	.21				322	16.061	.71	041	15.835 R	2.81
325	12.370	-.67	057	12.735	.17	--	Method 048.XX	--				035	15.715	1.55
070	12.300	-.86	029	12.720 X	.08	275	11.565	1.68	--	Method 050.30	--	029	15.540	.51
102	12.000	-1.41	Avg	12.696		247	10.500	.22	114	16.275 s	3.08	028	15.470	.43
			233	12.680	-.08	Avg	10.338		397	15.415	.82	Avg	15.458	
--	Method 041.60	--	028	12.660	-.13	362	10.105	-.45	234	15.390	.81	030	15.400	-.35
095	12.920	1.26	040	12.655	-.13	414	9.9550	-.57	040	15.360	.69	025	15.415	-.47
296	12.810	.88	029	12.640 X	-.18	193	9.5650	-1.05	136	15.335	.63	072	15.210	-1.52
351	12.736	.65	326	12.625	-.24				Avg	15.105		049	14.515 s	-6.30
043	12.585	.35	025	12.630	-.24	--	Method 050.00	--	142	15.015	-.24			
028	12.660	.33	136	12.625	-.25	009	16.060	2.50	351	14.863	-.63	--	Method 050.99	--
Avg	12.569		260	12.660	-.39	095	15.715	1.09	095	14.355	-1.96	260	16.060	1.86
288	12.530	-.14	043	12.585	-.46	193	15.650 R	1.03				330	15.915 R	1.63
397	12.160 X	-1.47	028	12.550	-.48	416	15.631	.76	--	Method 050.50	--	232	15.855	1.23
377	12.150	-1.51	288	12.530	-.52	043	15.630	.76	324	15.500	1.43	360	15.805	1.08
			023	12.475	-.76	057	15.615	.75	361	15.180	.21	177	15.804	1.07
--	Method 041.99	--	414	12.485	-.79	414	15.580	.61	Avg	15.128		369	15.550	.62
401	13.050	-.71	262	12.445	-.79	211	15.545	.53	292	14.925	-.84	381	15.550	.38
			072	12.400	-.93	072	15.570	.50	157	14.907	-.84	Avg	15.428	
--	Method 041.XX	--	325	12.370	-1.03	392	15.550	.42				401	15.400	-.08
415	13.593	2.83	362	12.355	-1.08	220	15.470	.38	--	Method 050.51	--	325	15.400	-.12
007	13.350	2.11	070	12.300	-1.34	350	15.485	.16	007	15.800	1.31	153	15.304	-.35
361	13.275	1.82	397	12.160 X	-1.69	162	15.470	.10	070	15.685	1.03	247	15.295	-.41
393	13.124	1.35	377	12.150	-1.72	148	15.460	.07	389	15.650	.85	362	15.240 X	-.54
401	13.050	1.13	049	12.110 R	-2.18	029	15.450	.04	Avg	15.381		394	15.170	-.78
360	12.745 R	1.00	102	12.000	-2.21	137	15.450	.01	393	15.293	-.28	405	15.170	-.79
041	12.915	.81				Avg	15.447		102	15.100	-.88	275	15.050 X	-1.10
322	12.927	.74	--	Method 048.10	--	345	15.385	-.29	023	15.090	-1.04	027	14.765	-1.90
095	12.920	.71	414	9.9550	.71	028	15.340	-.44	377	15.050	-1.05	262	13.150 s	-6.53
296	12.885	.64				326	15.365	-.51						

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 050.XX	--	--	Method 050.XX	--	--	Method 060.00	--	--	Method 101.XX	--	--	Method 121.30	--
390	16.740 s	3.73	288	15.420	.11	416	1.2505	1.32	102	12.018	.55	041	2.0800	.73
114	16.275	2.48	325	15.400	.10	362	1.1150	.39	193	11.700	.25	247	2.0550	.67
260	16.060	1.91	345	15.385	.10	Avg	1.0589		Avg	11.652		023	2.0270	.25
322	16.061	1.89	030	15.400	.05	007	0.9500	-.83	320	11.565	-.11	102	2.0379	.21
009	16.060	1.86	401	15.400	.05	361	0.9200	-.96	009	11.280	-.46	Avg	2.0231	
330	15.915 R	1.67	Avg	15.381					247	11.220	-.53	096	2.0150	-.12
041	15.835 R	1.45	028	15.340	-.12	--	Method 060.99	--	262	10.150	-1.90	057	1.9980	-.31
169	15.892	1.40	040	15.360	-.17	414	1.2700 X	.71	041	1.1000 s	-12.90	009	2.0178	-.47
232	15.855	1.30	153	15.304	-.21							035	1.9750	-.59
360	15.805	1.17	136	15.335	-.22	--	Method 060.XX	--	--	Method 121.00	--	157	1.9571	-.80
177	15.804	1.16	393	15.293	-.24	414	1.2700 X	1.09	177	2.0725	1.53	389	1.9450	-.99
007	15.800	1.15	326	15.365	-.26	416	1.2505	.96	028	2.0600	1.32	360	1.9500	-1.15
035	15.715	.92	247	15.295	-.28	362	1.1150	.09	029	2.0350	.95	324	1.9300	-1.15
095	15.715	.91	296	15.285	-.28	Avg	1.1011		193	2.0250	.83	292	1.8950	-1.58
070	15.685	.90	362	15.240 X	-.40	007	0.9500	-1.02	043	2.0000	.62	381	1.6800 S	-4.16
193	15.650	.84	072	15.210	-.48	361	0.9200	-1.16	072	2.0015	.52			
389	15.650	.75	361	15.180	-.55				392	2.0050	.51	--	Method 121.70	--
416	15.631	.69	231	15.180	-.62	--	Method 101.00	--	397	2.0031	.49	415	2.8170 S	57.91
043	15.630	.69	394	15.170	-.63	262	10.150	.71	309	2.0000	.43	416	2.0417	.71
369	15.550 R	.68	405	15.170	-.64				Avg	1.9710		Avg	2.0417	
057	15.615	.67	131	15.115	-.75	--	Method 101.30	--	390	1.9650	-.12			
414	15.580	.58	102	15.100	-.77	131	12.775	1.20	296	1.9600	-.22	--	Method 121.99	--
072	15.570	.52	131	15.065	-.87	035	12.505	.85	136	1.9550	-.25	320	1.2200 S	.00
211	15.545	.51	023	15.090	-.91	102	12.018	.40	351	1.9465	-.38	405	1.0300 S	.00
381	15.550	.48	377	15.050	-.92	Avg	11.960		369	1.9450	-.54	Avg	0.0000	
392	15.550	.46	275	15.050 X	-.93	009	11.280	-1.00	220	1.9600	-.76			
029	15.540	.44	142	15.015	-1.01	247	11.220	-1.09	137	1.9100	-.92	--	Method 121.XX	--
220	15.470	.35	090	14.995	-1.06	041	1.1000 S	-15.94	234	1.9250	-.96	330	3.5100 s	19.47
324	15.500	.34	372	14.925	-1.25				095	1.8800	-1.38	415	2.8170 s	10.63
234	15.390	.33	292	14.925	-1.27	--	Method 101.70	--	262	1.8000	-2.58	131	2.1750	2.29
028	15.470	.31	157	14.907	-1.30	193	11.700	.71	114	1.7050 s	-3.96	231	2.1450	1.90
350	15.485	.28	351	14.863	-1.42							407	2.1200	1.62
162	15.470	.24	027	14.765	-1.70	--	Method 101.99	--	--	Method 121.30	--	394	2.0700	1.21
148	15.460	.22	309	14.650	-2.01	320	11.565	-.71	330	3.5100 s	18.10	041	2.0800	1.10
025	15.415	.20	300	14.500	-2.42				131	2.1750	1.85	177	2.0725	.99
029	15.450	.19	049	14.515 s	-2.67	--	Method 101.XX	--	231	2.1450	1.48	247	2.0550	.94
137	15.450	.19	095	14.355	-2.82	131	12.775	1.37	407	2.1200	1.23	028	2.0600	.81
397	15.415	.18	262	13.150 s	-6.13	035	12.505	1.07	394	2.0700	.92	416	2.0417	.59

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 121.XX	--	--	Method 144.01	--	--	Method 144.99	--	--	Method 144.XX	--	--	Method 165.70	--
009	2.0178	.56	416	6.6303	1.07	040	6.2200	-1.34	028	6.1300	-2.10	043	0.0400	S .00
102	2.0379	.54	296	6.6000	.86	028	6.1300	-1.87	300	6.1200	R -2.55			
029	2.0350	.49	043	6.5950	.83	300	6.1200	R -2.29	023	5.6285	s -5.60	--	Method 165.99	--
023	2.0270	.46	288	6.5300	.40	023	5.6285	s -5.06	137	5.2000	s -8.08	360	0.0325	R 2.59
193	2.0250	.41	401	6.4750	.04	381	5.1000	s -7.93	381	5.1000	s -8.75	324	0.0305	1.76
043	2.0000	.39	Avg	6.4724		407	3.9350	s -14.97	372	5.0300	s -9.17	394	0.0288	1.31
096	2.0150	.24	351	6.4540	-.13				407	3.9350	s -16.47	009	0.0253	.36
072	2.0015	.22	102	6.3838	R -.77	--	Method 144.XX	--				Avg	0.0239	
397	2.0031	.12	193	6.2800	-1.30	035	6.7500	2.07	--	Method 151.30	--	300	0.0235	-.18
392	2.0050	.12	095	6.2150	-1.74	330	6.7050	1.72	247	6.7500	1.22	381	0.0235	-.18
057	1.9980	.07	137	5.2000	S -8.60	416	6.6303	1.13	Avg	6.0036		407	0.0225	-.41
309	2.0000	.04	372	5.0300	S -9.75	247	6.5550	.98	096	5.7500	-.40	231	0.0225	-.41
Avg	1.9968					057	6.5200	.93	102	5.5108	-.92	393	0.0205	-.93
035	1.9750	-.29	--	Method 144.02	--	296	6.6000	.93				035	0.0185	-1.52
390	1.9650	-.41	262	6.5300	.71	043	6.5950	.90	--	Method 151.99	--			
296	1.9600	-.49				232	6.5800	.81	407	5.7000	.71	--	Method 165.XX	--
157	1.9571	-.52	--	Method 144.03	--	394	6.5600	.78				040	0.0430	s 5.81
136	1.9550	-.54	361	6.4300	.71	262	6.5300	.62	--	Method 151.XX	--	043	0.0400	s 4.76
351	1.9465	-.65				029	6.5500	.61	247	6.7500	1.50	397	0.0407	A 4.74
369	1.9450	-.74	--	Method 144.99	--	288	6.5300	.49	Avg	5.9277		360	0.0325	R 2.64
389	1.9450	-.74	035	6.7500	1.93	401	6.4750	.13	096	5.7500	-.32	324	0.0305	1.67
220	1.9600	-.80	330	6.7050	1.60	324	6.4650	.07	407	5.7000	-.53	137	0.0300	1.52
324	1.9300	-.89	247	6.5550	.92	Avg	6.4552		102	5.5108	-.93	258	0.0295	1.38
360	1.9500	-.97	057	6.5200	.87	351	6.4540	-.05				394	0.0288	1.18
234	1.9250	-1.09	232	6.5800	.78	275	6.4450	-.17	--	Method 165.00	--	029	0.0265	.50
137	1.9100	-1.12	394	6.5600	.74	361	6.4300	-.17	040	0.0430	S 3.17	023	0.0256	.37
292	1.8950	-1.34	029	6.5500	.60	360	6.4250	-.20	397	0.0407	X 2.46	220	0.0250	.30
095	1.8800	-1.52	324	6.4650	.10	393	6.4085	-.30	137	0.0300	.44	009	0.0253	.12
262	1.8000	-2.55	Avg	6.4485		231	6.3950	-.39	258	0.0295	.36	Avg	0.0249	
114	1.7050	A -3.74	360	6.4250	-.14	102	6.3838	-.65	Avg	0.0276		028	0.0245	-.20
381	1.6800	s -4.06	275	6.4450	-.15	220	6.3900	-.66	029	0.0265	-.23	057	0.0241	-.27
320	1.2200	s -9.95	393	6.4085	-.24	405	6.3650	-.72	023	0.0256	-.44	381	0.0235	-.45
405	1.0300	s -12.38	231	6.3950	-.32	389	6.3200	-.88	220	0.0250	-.53	300	0.0235	-.45
			220	6.3900	-.58	193	6.2800	-1.13	028	0.0245	-.60	392	0.0230	-.57
--	Method 131.00	--	405	6.3650	-.62	177	6.2950	-1.14	057	0.0241	-.68	407	0.0225	-.74
220	0.9100	.87	389	6.3200	-.76	009	6.4432	R -1.24	392	0.0230	-.87	231	0.0225	-.74
Avg	0.6700		177	6.2950	-1.00	040	6.2200	-1.52				393	0.0205	-1.33
193	0.4300	-.86	009	6.4432	-1.13	095	6.2150	-1.55				035	0.0185	-1.97

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 181.00	--	--	Method 190.00	--	--	Method 190.XX	--	--	Method 202.30	--	--	Method 221.00	--
193	2.4000 S	8.28	296	2.4250	.33	397	2.2713	-.01	096	6.0000	-.20	296	0.0515	-1.11
300	1.5000	.85	029	2.3800	.12	009	2.2452	-.13	102	5.8770	-.26	234	0.0550 R	-1.12
Avg	1.3950		372	2.3600	.09	394	2.2100	-.31	247	5.0000	-.72	220	0.0550 R	-1.12
394	1.2900	-.88	Avg	2.3549		102	2.2004	-.36	324	4.8000	-.82	262	0.0500	-1.42
			028	2.3000	-.27	136	2.1935	-.39				137	0.0500	-1.42
--	Method 181.30	--	043	2.3000	-.27	057	2.1850	-.44	--	Method 202.99	--	--	Method 221.30	--
247	1.9000	1.62	394	2.2100	-.67	300	2.1500	-.61	407	9.9000	.87	009	0.0714 s	3.58
157	1.5450	.55	102	2.2004	-.71	023	2.1450	-.64	Avg	5.9500		041	0.0603 R	1.82
102	1.4438	.31	136	2.1935	-.74	095	2.1100	-.81	320	2.0000	-.87	102	0.0624	1.48
Avg	1.3656		057	2.1850	-.78	360	2.1150	-.82	--	Method 202.XX	--	330	0.0605	1.12
232	1.2500	-.38	023	2.1450	-.96	262	2.0500	-1.14	009	10.295 R	2.21	300	0.0595	.92
035	1.1550	-.63	262	2.0500	-1.42	389	1.8900	-1.92	407	9.9000	2.02	131	0.0591	.90
324	1.3500 R	-.75							232	6.3000	.31	360	0.0576	.73
389	0.9000	-1.39	--	Method 190.99	--	--	Method 191.00	--	096	6.0000	.16	040	0.0580	.69
			405	3.6700 s	10.31	193	59.000	.00	102	5.8770	.11	157	0.0583	.63
--	Method 181.99	--	288	2.3100	1.01				Avg	5.6585		057	0.0576	.48
407	1.4000	.00	397	2.2713	.74	--	Method 191.30	--	397	5.3912	-.13	023	0.0570	.35
			009	2.2452	.56	009	61.560	1.24	247	5.0000	-.32	324	0.0562	.17
--	Method 181.XX	--	Avg	2.1627		096	55.950	.46	324	4.8000	-.41	Avg	0.0553	
193	2.4000 s	3.80	300	2.1500	-.09	Avg	54.175		320	2.0000	-1.74	389	0.0549	-.20
247	1.9000	1.94	095	2.1100	-.37	102	50.890	-.62				231	0.0525	-.60
157	1.5450	.64	360	2.1150 R	-.45	035	48.300	-1.17	--	Method 221.00	--	393	0.0525	-.60
300	1.5000	.45	389	1.8900	-1.86				392	0.3130 s	76.89	247	0.0525	-.60
102	1.4438	.35				--	Method 191.XX	--	072	0.0658	2.00	407	0.0550	-1.04
407	1.4000	.09	--	Method 190.XX	--	009	61.560	1.14	114	0.0630	1.40	035	0.0490	-1.33
Avg	1.3760		405	3.6700 s	7.03	193	59.000	.69	369	0.0600	.70	381	0.0485	-1.45
394	1.2900	-.33	234	2.8700	3.01	096	55.950	.39	029	0.0600	.70	292	0.0450	-2.14
232	1.2500	-.49	220	2.7100 R	2.23	Avg	55.140		397	0.0593	.55			
035	1.1550	-.80	040	2.6350 R	1.86	102	50.890	-.81	043	0.0590	.53	--	Method 221.99	--
324	1.3500 R	-.91	392	2.4990	1.14	035	48.300	-1.38	193	0.0580	.51	394	0.0523	.57
389	0.9000	-1.73	027	2.4950	1.12				028	0.0585	.40	Avg	0.0519	
			296	2.4250	.77	--	Method 202.00	--	Avg	0.0567		407	0.0515	-1.08
--	Method 190.00	--	029	2.3800	.54	397	5.3912	.71	351	0.0562	-.10			
234	2.8700	2.36	372	2.3600	.45				136	0.0555	-.27	--	Method 221.XX	--
220	2.7100	1.66	288	2.3100	.20	--	Method 202.30	--	390	0.0565	-.32	392	0.3130 s	76.67
040	2.6350 R	1.33	043	2.3000	.17	009	10.295	2.05	157	0.0521	-1.01	009	0.0714 s	3.56
392	2.4990	.66	028	2.3000	.17	Avg	6.3787		095	0.0518	-1.05	072	0.0658	2.18
027	2.4950	.65	Avg	2.2716		232	6.3000	-.07						

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 221.XX	--	--	Method 221.XX	--	--	Method 241.30	--	--	Method 241.XX	--	--	Method 251.XX	--
041	0.0603 R	1.80	292	0.0450	-2.27	394	0.5695	-.19	095	0.5820	.12	232	16.550	1.61
114	0.0630	1.58				381	0.5800 X	-.34	040	0.5825	.10	407	15.500	1.18
102	0.0624	1.41	--	Method 241.00	--	009	0.5321	-.85	072	0.5801	.04	324	15.300	1.11
330	0.0605	1.05				247	0.5300	-.93	Avg	0.5789		389	13.200	.25
369	0.0600	.89	137	0.6500	1.77	393	0.5110	-1.19	389	0.5750	-.11	397	12.963	.14
029	0.0600	.89	397	0.6386 R	1.62	157	0.5024	-1.33	292	0.5705	-.15	157	12.675	.03
300	0.0595	.85	296	0.6230	.94	300	0.5000	-1.37	394	0.5695	-.16	Avg	12.613	
131	0.0591	.84	220	0.6200	.83	035	0.4980	-1.41	369	0.5350	-.76	247	11.500	-.50
397	0.0593	.74	177	0.6180	.80	041	0.4357 R	-2.52	009	0.5321	-.82	096	11.500	-.50
043	0.0590	.71	028	0.6180	.77				247	0.5300	-.91	102	11.593	-.51
360	0.0576	.69	351	0.6116	.58	--	Method 241.99	--	193	0.5250	-.96	009	9.1850	-1.40
040	0.0580	.63	029	0.5985	.16	320	0.4854	.71	393	0.5110	-1.17	035	8.7800	-1.58
193	0.0580	.63	Avg	0.5935					157	0.5024	-1.31			
028	0.0585	.59	136	0.5920	-.13	--	Method 241.XX	--	300	0.5000	-1.35	--	Method 261.00	--
157	0.0583	.55	234	0.5900	-.33	262	1.0700 s	8.44	035	0.4980	-1.39	072	0.0767 S	2.67
057	0.0576	.40	390	0.5900	-.33	330	0.6900	1.94	320	0.4854	-1.61	193	0.0735 R	2.20
390	0.0565	.35	040	0.5825	-.37	131	0.6620	1.43	041	0.4357 R	-2.51	043	0.0700	1.53
023	0.0570	.26	095	0.5820	-.41	231	0.6600	1.39	114	0.4010	-3.05	262	0.0700	1.22
351	0.0562	.10	072	0.5801	-.43	407	0.6550	1.33				369	0.0650	.89
324	0.0562	.08	043	0.5800	-.53	137	0.6500	1.22	--	Method 251.00	--	397	0.0673	.86
Avg	0.0558		369	0.5350	-1.84	397	0.6386 R	1.11	397	12.963	.71	028	0.0645	.38
136	0.0555	-.12	193	0.5250	-2.20	296	0.6230	.76				Avg	0.0621	
389	0.0549	-.26	114	0.4010 s	-6.03	360	0.6055 R	.73	--	Method 251.30	--	351	0.0621	-.25
393	0.0525	-.70				324	0.6200	.73	232	16.550	1.72	234	0.0600	-.32
247	0.0525	-.70	--	Method 241.30	--	220	0.6200	.71	324	15.300	1.23	137	0.0600	-.32
231	0.0525	-.70	330	0.6900	1.88	177	0.6180	.68	389	13.200	.38	136	0.0575	-.71
394	0.0523	-.74	131	0.6620	1.38	028	0.6180	.67	157	12.675	.17	390	0.0565	-.86
157	0.0521	-.82	231	0.6600	1.34	351	0.6116	.56	Avg	12.254		220	0.0500	-1.86
095	0.0518	-.85	407	0.6550	1.28	023	0.6040	.43	247	11.500	-.36	392	0.0245 s	-5.79
296	0.0515	-.91	360	0.6055 R	.70	096	0.6000	.36	096	11.500	-.36			
407	0.0515	-.92	324	0.6200	.68	381	0.5800 X	.34	102	11.593	-.40	--	Method 261.11	--
407	0.0550 R	-1.07	023	0.6040	.39	029	0.5985	.34	009	9.1850	-1.22	296	0.0625	1.25
220	0.0550 R	-1.07	096	0.6000	.32	234	0.5900	.26	035	8.7800	-1.40	Avg	0.0599	
234	0.0550 R	-1.07	102	0.5921	.22	390	0.5900	.26				029	0.0590	-.54
137	0.0500	-1.22	057	0.5859	.12	102	0.5921	.25	--	Method 251.99	--	095	0.0585	-.75
262	0.0500	-1.22	Avg	0.5809		136	0.5920	.23	407	15.500	.71	040	0.0595	-1.04
035	0.0490	-1.44	389	0.5750	-.13	043	0.5800	.17						
381	0.0485	-1.56	292	0.5705	-.18	057	0.5859	.15						

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 261.30	--	--	Method 261.XX	--	--	Method 289.30	--	--	Method 291.XX	--	--	Method 321.00	--
041	0.0668 s	3.07	351	0.0621	.87	232	5.8500	.84	096	26.600	1.02	Avg	0.0832	
330	0.0650	1.89	247	0.0605	.60	102	5.4918	.28	407	26.000	.91	397	0.0826	-.16
247	0.0605	1.13	040	0.0595	.59	Avg	5.3331		102	24.483	.52	043	0.0830	-.20
096	0.0600	1.06	096	0.0600	.54	157	5.2400	-.15	009	23.900	.40	029	0.0815	-.44
023	0.0580	.73	234	0.0600	.52	247	5.3000	-.16	232	22.300	.12	072	0.0817	-.46
324	0.0575	.63	137	0.0600	.52	096	5.0000	-.52	157	22.470	.04	234	0.0800	-.62
360	0.0556 R	.59	029	0.0590	.40	324	4.2000	-1.79	Avg	22.288		220	0.0800	-.62
131	0.0567	.49	095	0.0585	.34				247	19.500	-.66	369	0.0800	-.62
009	0.0566	.48	023	0.0580	.27	--	Method 289.99	--	035	14.000 R	-2.00	296	0.0825 R	-.69
057	0.0555	.38	136	0.0575	.16	407	6.5000	.71	324	13.050	-2.18	262	0.0700	-2.55
Avg	0.0538		324	0.0575	.16							390	0.0690 s	-2.85
102	0.0535	-.09	407	0.0575	.16	--	Method 289.XX	--	--	Method 311.00	--			
381	0.0535	-.10	009	0.0566	.04	009	21.985 s	22.46	193	0.2105	.71	--	Method 321.30	--
300	0.0515	-.39	131	0.0567	.04	407	6.5000	1.53				330	0.1045 s	3.16
389	0.0509	-.51	Avg	0.0566		057	6.2500	1.09	--	Method 311.99	--	381	0.0950 X	1.75
157	0.0504	-.57	390	0.0565	-.08	232	5.8500	.54	009	0.2441	1.11	009	0.0934	1.56
231	0.0500	-.63	394	0.0552	-.22	102	5.4918	.11	247	0.2350	.66	131	0.0925	1.41
035	0.0490	-.80	057	0.0555	-.28	Avg	5.4790		Avg	0.2243		407	0.0850 R	.78
393	0.0435	-1.77	102	0.0535	-.47	247	5.3000	-.28	035	0.2080	-.92	040	0.0865	.67
292	0.0420	-2.01	381	0.0535	-.47	157	5.2400	-.32	320	0.2103	-1.00	394	0.0845 X	.58
			360	0.0556	-.49	096	5.0000	-.65				023	0.0850	.46
--	Method 261.99	--	300	0.0515	-.77	324	4.2000	-1.75	--	Method 311.XX	--	393	0.0855	.44
407	0.0575	.79	389	0.0509	-.87				009	0.2441	1.34	292	0.0840	.27
394	0.0552	.41	157	0.0504	-.93	--	Method 291.30	--	247	0.2350	.85	Avg	0.0824	
Avg	0.0526		231	0.0500	-.99	096	26.600	1.14	Avg	0.2216		389	0.0818	-.14
320	0.0450	-1.31	220	0.0500	-.99	102	24.483	.64	193	0.2105	-.67	247	0.0815	-.14
			035	0.0490	-1.15	009	23.900	.52	035	0.2080	-.81	231	0.0800	-.33
--	Method 261.XX	--	320	0.0450	-1.83	232	22.300	.17	320	0.2103	-.94	360	0.0818	-.34
072	0.0767 s	3.36	393	0.0435	-2.02	157	22.470	.17				324	0.0814	-.35
193	0.0735 R	2.87	292	0.0420	-2.24	Avg	21.758		--	Method 321.00	--	102	0.0785	-.55
041	0.0668 R	2.49	392	0.0245 s	-4.86	247	19.500	-.53	392	0.1050 s	4.30	057	0.0782	-.58
043	0.0700 R	2.23				324	13.050	-2.05	028	0.0915	1.62	300	0.0735	-1.23
262	0.0700	2.04	--	Method 281.99	--				137	0.0900	1.30	035	0.0705	-1.66
397	0.0673	1.65	407	0.0200	.00	--	Method 291.99	--	193	0.0885	1.05	157	0.0688	-1.87
369	0.0650	1.49				407	26.000	.85	114	0.0870	.82			
330	0.0650	1.28	--	Method 289.30	--	Avg	20.000		136	0.0855	.44	--	Method 321.99	--
028	0.0645	1.21	009	21.985 s	26.15	035	14.000	-.88	351	0.0833	.23	407	0.0804	.67
296	0.0625	.93	057	6.2500	1.48				095	0.0841	.18	096	0.0800	.62

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
--	Method 321.99	--	--	Method 321.XX	--									
Avg	0.0750		102	0.0785	-.56									
320	0.0646	-1.29	057	0.0782	-.58									
			300	0.0735	-1.28									
--	Method 321.XX	--	035	0.0705	-1.74									
392	0.1050 s	3.48	262	0.0700	-1.80									
330	0.1045 s	3.43	157	0.0688	-1.97									
381	0.0950 X	1.91	390	0.0690 R	-2.04									
009	0.0934	1.70	320	0.0646	-2.61									
131	0.0925	1.54												
028	0.0915	1.41	--	Method 325.30	--									
137	0.0900	1.17	041	0.0787	.71									
193	0.0885	.97												
407	0.0850 R	.86												
114	0.0870	.78												
040	0.0865	.75												
394	0.0845 X	.64												
296	0.0825	.52												
023	0.0850	.52												
136	0.0855	.51												
393	0.0855	.51												
292	0.0840	.32												
095	0.0841	.30												
351	0.0833	.24												
043	0.0830	.20												
397	0.0826	.09												
Avg	0.0821													
247	0.0815	-.12												
389	0.0818	-.13												
029	0.0815	-.24												
407	0.0804	-.27												
072	0.0817	-.28												
369	0.0800	-.32												
220	0.0800	-.32												
231	0.0800	-.32												
234	0.0800	-.32												
096	0.0800	-.32												
360	0.0818	-.36												
324	0.0814	-.36												

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.99	4	-0.0408	0.92	0.10	060.XX	5	0.0000	1.05	0.15
001.XX	5	-0.0733	0.95	0.10	101.30	6	-2.6560	6.57	0.20
009.10	6	-0.1232	1.00	0.03	101.XX	9	-1.4329	4.40	0.23
009.XX	6	-0.1232	1.00	0.03	121.00	20	-0.1977	1.29	0.31
010.11	10	0.0000	0.79	0.62	121.30	19	0.7293	4.38	0.54
010.12	8	-1.0577	3.11	1.16	121.70	2	28.5542	40.38	6.82
010.60	47	1.2198	10.67	2.27	121.99	2	0.0000	0.00	0.00
010.99	6	-1.1390	3.27	0.36	121.XX	43	-0.0057	4.37	0.49
010.XX	67	0.8200	9.84	2.19	131.00	2	0.0000	1.22	0.05
020.10	8	0.0000	0.89	0.50	131.XX	2	0.0000	1.22	0.05
020.20	15	-0.0304	0.97	0.42	144.01	11	-1.7232	3.80	0.16
020.40	7	0.0855	0.95	0.68	144.99	23	-1.2776	3.59	0.81
020.50	5	-1.5295	2.29	0.09	144.XX	36	-1.3821	3.69	0.72
020.99	2	-127.464	180.26	0.55	151.30	3	0.0000	1.02	0.37
020.XX	38	-1.2493	5.73	0.44	151.XX	4	0.0000	0.97	0.40
030.20	2	0.0000	1.11	0.37	165.00	10	0.2887	1.33	0.43
030.40	3	8.7773	15.22	1.17	165.99	10	0.2294	1.20	0.42
030.XX	7	1.8832	5.05	0.60	165.XX	21	0.8062	1.99	0.66
040.20	2	0.0000	1.15	0.29	181.00	3	2.7083	4.77	0.94
040.40	4	0.0000	0.92	0.49	181.30	7	-0.0067	0.94	0.32
040.XX	8	0.0728	0.96	0.51	181.XX	11	0.3301	1.45	0.38
041.10	16	0.0000	0.91	0.43	190.00	16	0.0802	1.03	0.15
041.20	3	0.0000	1.12	0.06	190.99	8	1.2467	3.77	0.20
041.40	6	-0.5978	1.74	0.99	190.XX	24	0.4603	1.78	0.16
041.50	8	0.0000	0.99	0.29	191.30	4	0.0000	0.99	0.38
041.60	8	0.0000	1.02	0.18	191.XX	5	0.0000	0.98	0.36
041.XX	38	-0.0468	1.05	0.34	202.30	6	0.0000	1.05	0.08
048.20	2	0.0000	1.04	0.46	202.99	2	0.0000	1.22	0.02
048.99	2	0.0000	1.17	0.25	202.XX	9	0.2447	1.21	0.06
048.XX	5	0.0000	1.03	0.23	221.00	19	2.8199	12.50	12.50
050.00	25	-0.1208	1.24	0.23	221.30	20	0.2176	1.18	0.56
050.30	8	0.3822	1.44	0.20	221.99	2	0.0000	0.80	0.65
050.50	4	0.0000	1.06	0.18	221.XX	39	1.5041	8.73	8.69
050.51	7	0.0000	1.00	0.25	241.00	19	0.5425	3.87	0.35
050.60	5	0.6053	1.64	0.11	241.30	21	-0.0975	1.10	0.23
050.61	8	-0.4275	2.43	1.14	241.XX	41	0.1817	1.68	0.21
050.99	17	-0.3013	1.88	0.31	251.30	9	0.0000	1.01	0.18
050.XX	70	-0.0036	1.31	0.36	251.XX	11	0.0000	1.01	0.17
060.00	4	0.0000	1.06	0.18	261.00	14	-0.1274	1.97	0.62

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
261.11	4	0.0000	0.75	0.68					
261.30	19	0.1305	1.07	0.53					
261.99	3	0.0000	1.05	0.31					
261.XX	40	0.1085	1.42	0.50					
289.30	8	3.2416	9.22	1.21					
289.XX	9	2.4740	7.48	1.01					
291.30	7	0.0000	1.04	0.08					
291.99	2	0.0000	1.19	0.20					
291.XX	9	-0.2172	1.16	0.18					
311.99	4	0.0000	1.01	0.34					
311.XX	5	0.0000	1.00	0.33					
321.00	18	0.0724	1.51	0.38					
321.30	20	0.1716	1.16	0.31					
321.99	3	0.0000	1.11	0.07					
321.XX	40	0.1280	1.25	0.30					