

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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EVALUATION CRITERIA

For quantitative procedures, a mean and standard deviation (SD) are calculated for each peer group. Acceptable performance is established on a target value mean \pm the limits listed below.

Acetaminophen	$\pm 15\%$ or $2.5 \mu\text{g/mL}^*$	Lactate (Lactic Acid)	$\pm 0.4 \text{ mmol/L}$ or 3 SD^*
Acetone	80% Consensus	LDL Cholesterol	$\pm 2 \text{ SD}$ or $30\%^*$
Albumin	$\pm 10\%$	Lipase	$\pm 30\%$
Alcohol	$\pm 25\%$	LH	$\pm 2 \text{ SD}$ or $20\%^*$
Alpha-fetoprotein	$\pm 3 \text{ SD}$	Lithium	$\pm 0.3 \text{ mmol/L}$ or $20\%^*$
Alkaline Phosphatase	$\pm 30\%$	Magnesium	$\pm 25\%$
ALT (SGPT)	$\pm 20\%$	Myoglobin	$\pm 2 \text{ SD}$ or $30\%^*$
Ammonia	$\pm 5\%$ or $10 \mu\text{mol/L}^*$	NT-proBNP	$\pm 2 \text{ SD}$ or $25\%^*$
Amylase	$\pm 30\%$	Parathyroid Hormone, Intact	$\pm 30\%$ or 2 SD^*
AST (SGOT)	$\pm 20\%$	Phenobarbital	$\pm 20\%$
B-Type Natriuretic Peptide (BNP)	$\pm 2 \text{ SD}$ or $25\%^*$	Phenytoin	$\pm 25\%$
Beta-2 Microglobulin	$\pm 3 \text{ SD}$	Phosphorus	$\pm 0.3 \text{ mg/dL}$ or $10\%^*$
Bilirubin, Direct	$\pm 2 \text{ SD}$	Potassium	$\pm 0.5 \text{ mmol/L}$
Bilirubin, Total	$\pm 0.4 \text{ mg/dL}$ or $20\%^*$	Prealbumin	$\pm 25\%$
Bilirubin, Neonatal (Total)	$\pm 0.4 \text{ mg/dL}$ or $20\%^*$	Progesterone	$\pm 25\%$
Blood Lead	$\pm 4 \mu\text{g/dL}$ or $\pm 10\%^*$	Prolactin	$\pm 20\%$
C-Peptide	$\pm 2 \text{ SD}$	Protein, Total (Serum)	$\pm 10\%$
CA 125	$\pm 2 \text{ SD}$ or $20\%^*$	Protein, Total (Urine)	$\pm 44\%$
CA 15-3	$\pm 2 \text{ SD}$ or $30\%^*$	PSA	$\pm 0.9 \text{ ng/mL}$ or $30\%^*$
CA 19-9	$\pm 2 \text{ SD}$ or $30\%^*$	PSA, Free	$\pm 0.9 \text{ ng/mL}$ or $30\%^*$
CA 27/29	$\pm 2 \text{ SD}$ or $30\%^*$	pCO ₂	$\pm 5 \text{ mmHg}$ or $8\%^*$
Calcium	$\pm 1.0 \text{ mg/dL}$	pH	± 0.04
Calcium, Ionized	$\pm 3 \text{ SD}$	pO ₂	$\pm 3 \text{ SD}$
Carbamazepine	$\pm 25\%$	Salicylate	$\pm 25\%$
CEA	$\pm 1.2 \text{ ng/mL}$ 20%	SHBG	$\pm 3 \text{ SD}$
Chloride	$\pm 5\%$	Sodium	$\pm 4.0 \text{ mmol/L}$
Cholesterol, Total	$\pm 10\%$	T ₃ Uptake (% Uptake)	$\pm 3 \text{ SD}$
CK-MB (Quantitative)	$\pm 3 \text{ SD}$	T ₃ , Free	$\pm 3 \text{ SD}$
CO ₂	$\pm 20\%$	T ₄ , Free	$\pm 3 \text{ SD}$
Cortisol	$\pm 25\%$	tCO ₂	$\pm 20\%$
Creatine Kinase	$\pm 30\%$	Testosterone	$\pm 30\%$ or 20 ng/dL^*
Creatinine (Serum)	$\pm 0.3 \text{ mg/dL}$ or $15\%^*$	Testosterone, Bioavailable	$\pm 3 \text{ SD}$
Creatinine (Urine)	$\pm 17\%$	Testosterone, Free	$\pm 2 \text{ SD}$
D-Dimer	$\pm 2 \text{ SD}$ or $30\%^*$	Theophylline	$\pm 25\%$
DHEA-S	$\pm 30\%$ or 2 SD^*	Thyroglobulin	$\pm 2 \text{ SD}$
Digoxin	$\pm 0.2 \text{ mg/dL}$ or $20\%^*$	Thyroglobulin Antibody	$\pm 3 \text{ SD}$
Estradiol	$\pm 30\%$ or 2 SD^*	Thyroid Peroxidase Antibody (TPO)	$\pm 3 \text{ SD}$
Ferritin	$\pm 20\%$	Thyroxine, Total T ₄	$\pm 1.0 \mu\text{g/dL}$ or $20\%^*$
Folate	$\pm 1.0 \text{ ng/mL}$ or $30\%^*$	TIBC	$\pm 2 \text{ SD}$ or $20\%^*$
FSH	$\pm 18\%$ or 2 SD^*	Transferrin	$\pm 10\%$
Gentamicin	$\pm 25\%$ or $1.0 \mu\text{g/mL}^*$	Triglyceride	$\pm 25\%$
GGT	$\pm 2 \text{ SD}$ or $15\%^*$	Triiodothyronine, Total T ₃	$\pm 3 \text{ SD}$
Glucose, Serum	$\pm 6 \text{ mg/dL}$ or $10\%^*$	Troponin I	$\pm 2 \text{ SD}$ or $30\%^*$
Glucose, Whole Blood	$\pm 6 \text{ mg/dL}$ or $20\%^*$	Troponin T	$\pm 2 \text{ SD}$ or $30\%^*$
Glycohemoglobin	$\pm 5\%$	TSH	$\pm 3 \text{ SD}$
HDL Cholesterol	$\pm 30\%$	UIBC	$\pm 2 \text{ SD}$ or $20\%^*$
HCG, Serum—Qualitative	80% Consensus	Urea Nitrogen	$\pm 2.0 \text{ mg/dL}$ or $9\%^*$
HCG, Serum—Quantitative	$\pm 18\%$ or 2 SD^*	Uric Acid	$\pm 17\%$
Hematocrit	$\pm 6\%$	Urine Drug Screen	80% Consensus
Hemoglobin	$\pm 7\%$	Valproic Acid	$\pm 25\%$
Homocysteine	$\pm 30\%$	Vancomycin	$\pm 25\%$ or $1.0 \mu\text{g/mL}^*$
Insulin	$\pm 2 \text{ SD}$	Vitamin B ₁₂	$\pm 25\%$
Iron	$\pm 20\%$	Vitamin D	$\pm 2 \text{ SD}$
Lactate Dehydrogenase	$\pm 20\%$		

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST- 12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	145.8	0.7	0.5	146	141 - 150	105	161.0	0.9	0.6	161	157 - 166
All i-STAT Instruments	106	145.8	0.7	0.5	146	141 - 150	105	161.0	0.9	0.6	161	157 - 166
i-STAT - moderate	90	145.8	0.7	0.5	146	141 - 150	89	160.9	0.8	0.5	161	156 - 165
i-STAT - waived	16	146.0	1.0	0.7	146	142 - 150	16	161.5	1.0	0.6	162	157 - 166
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	124.8	0.6	0.5	125	120 - 129	102	139.5	0.6	0.4	139	135 - 144
All i-STAT Instruments	101	124.8	0.6	0.5	125	120 - 129	102	139.5	0.6	0.4	139	135 - 144
i-STAT - moderate	89	124.7	0.6	0.5	125	120 - 129	90	139.4	0.5	0.4	139	135 - 144
i-STAT - waived	12	125.0	0.7	0.6	125	121 - 129	12	140.0	0.9	0.6	140	136 - 144
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	98	124.9	0.5	0.4	125	120 - 129						
All i-STAT Instruments	98	124.9	0.5	0.4	125	120 - 129						
i-STAT - moderate	90	124.9	0.5	0.4	125	120 - 129						
i-STAT - waived	11	125.6	0.9	0.7	125	121 - 130						

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	6.15	0.06	1.0	6.2	5.6 - 6.7	104	6.51	0.05	0.8	6.5	6.0 - 7.1
All i-STAT Instruments	106	6.15	0.06	1.0	6.2	5.6 - 6.7	104	6.51	0.05	0.8	6.5	6.0 - 7.1
i-STAT - moderate	91	6.15	0.06	1.0	6.2	5.6 - 6.7	90	6.52	0.05	0.8	6.5	6.0 - 7.1
i-STAT - waived	15	6.13	0.06	1.0	6.1	5.6 - 6.7	15	6.49	0.08	1.3	6.5	5.9 - 7.0
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	2.71	0.03	1.2	2.7	2.2 - 3.3	95	3.80	0.01	0.0	3.8	3.3 - 4.3
All i-STAT Instruments	103	2.71	0.03	1.2	2.7	2.2 - 3.3	95	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - moderate	92	2.71	0.03	1.2	2.7	2.2 - 3.3	86	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - waived	11	2.72	0.04	1.5	2.7	2.2 - 3.3	11	3.80	0.04	1.2	3.8	3.3 - 4.3
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	103	2.72	0.04	1.4	2.7	2.2 - 3.3						
All i-STAT Instruments	103	2.72	0.04	1.4	2.7	2.2 - 3.3						
i-STAT - moderate	92	2.72	0.04	1.5	2.7	2.2 - 3.3						
i-STAT - waived	11	2.70	0.01	0.0	2.7	2.2 - 3.2						

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	12.8	0.6	4.5	13	10 - 16	103	22.9	0.8	3.7	23	18 - 28
All i-STAT Instruments	104	12.8	0.6	4.5	13	10 - 16	103	22.9	0.8	3.7	23	18 - 28
i-STAT - moderate	91	12.8	0.6	4.6	13	10 - 16	90	22.8	0.9	3.8	23	18 - 28
i-STAT - waived	13	12.9	0.5	3.8	13	10 - 16	13	23.0	0.7	3.1	23	18 - 28

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	22.5	0.9	3.8	23	18 - 28	97	25.4	1.2	4.7	25	20 - 31
All i-STAT Instruments	100	22.5	0.9	3.8	23	18 - 28	97	25.4	1.2	4.7	25	20 - 31
i-STAT - moderate	91	22.5	0.9	3.8	23	18 - 28	88	25.4	1.2	4.6	25	20 - 31
i-STAT - waived	9	-	-	-	23	18 - 28	9	-	-	-	25	20 - 31

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	96	22.3	0.8	3.6	22	17 - 27
All i-STAT Instruments	96	22.3	0.8	3.6	22	17 - 27
i-STAT - moderate	88	22.3	0.9	3.9	22	17 - 27
i-STAT - waived	9	-	-	-	22	17 - 27

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	109.0	0.7	0.7	109	103 - 115	106	106.8	0.7	0.7	107	101 - 113
All i-STAT Instruments	106	109.0	0.7	0.7	109	103 - 115	106	106.8	0.7	0.7	107	101 - 113
i-STAT - moderate	92	109.0	0.7	0.7	109	103 - 115	92	106.8	0.7	0.7	107	101 - 113
i-STAT - waived	14	109.0	0.9	0.8	109	103 - 115	14	107.0	0.9	0.8	107	101 - 113

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	74.3	0.6	0.9	74	70 - 78	103	86.1	0.7	0.8	86	81 - 91
All i-STAT Instruments	101	74.3	0.6	0.9	74	70 - 78	103	86.1	0.7	0.8	86	81 - 91
i-STAT - moderate	91	74.3	0.6	0.9	74	70 - 78	93	86.1	0.7	0.8	86	81 - 91
i-STAT - waived	10	74.4	0.7	0.9	75	70 - 79	10	86.0	0.8	0.9	86	81 - 91

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	74.5	0.6	0.8	75	70 - 79
All i-STAT Instruments	103	74.5	0.6	0.8	75	70 - 79
i-STAT - moderate	93	74.5	0.6	0.8	75	70 - 79
i-STAT - waived	10	74.5	0.7	0.9	75	70 - 79

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	22.1	0.4	1.8	22	20 - 25	106	16.3	0.5	2.9	16	14 - 19
All i-STAT Instruments	103	22.1	0.4	1.8	22	20 - 25	106	16.3	0.5	2.9	16	14 - 19
i-STAT - moderate	91	22.1	0.4	1.8	22	20 - 25	91	16.2	0.4	2.7	16	14 - 19
i-STAT - waived	14	22.4	0.8	3.4	22	20 - 25	15	16.5	0.6	3.9	17	14 - 19
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	69.0	1.3	1.9	69	62 - 76	100	62.0	1.5	2.5	62	56 - 68
All i-STAT Instruments	103	69.0	1.3	1.9	69	62 - 76	100	62.0	1.5	2.5	62	56 - 68
i-STAT - moderate	92	68.9	1.2	1.8	69	62 - 76	88	61.7	1.2	1.9	62	56 - 68
i-STAT - waived	11	70.0	1.9	2.8	70	63 - 77	11	62.0	5.7	9.2	63	56 - 68
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	100	68.8	1.2	1.7	69	62 - 75						
All i-STAT Instruments	100	68.8	1.2	1.7	69	62 - 75						
i-STAT - moderate	91	68.8	1.1	1.6	69	62 - 75						
i-STAT - waived	11	69.6	2.1	3.0	70	63 - 76						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	85.3	1.0	1.1	85	76 - 94	107	76.6	1.1	1.5	77	68 - 85
All i-STAT Instruments	106	85.3	1.0	1.1	85	76 - 94	107	76.6	1.1	1.5	77	68 - 85
i-STAT - moderate	91	85.3	0.9	1.1	85	76 - 94	90	76.5	1.1	1.4	77	68 - 85
i-STAT - waived	16	85.1	1.4	1.6	85	76 - 94	16	76.9	1.4	1.8	77	69 - 85
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	179.5	1.4	0.8	180	161 - 198	102	146.4	1.3	0.9	146	131 - 162
All i-STAT Instruments	101	179.5	1.4	0.8	180	161 - 198	102	146.4	1.3	0.9	146	131 - 162
i-STAT - moderate	90	179.5	1.5	0.8	180	161 - 198	91	146.5	1.3	0.9	146	131 - 162
i-STAT - waived	12	178.8	1.9	1.1	180	160 - 197	11	146.1	1.4	1.0	146	131 - 161
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	102	180.0	1.4	0.8	180	162 - 198						
All i-STAT Instruments	102	180.0	1.4	0.8	180	162 - 198						
i-STAT - moderate	91	180.0	1.4	0.8	180	162 - 199						
i-STAT - waived	11	179.7	0.9	0.5	180	161 - 198						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	25.0	0.7	3.0	25	23 - 27	21	29.3	0.9	3.1	29	27 - 32
All i-STAT Instruments	21	25.0	0.7	3.0	25	23 - 27	21	29.3	0.9	3.1	29	27 - 32
i-STAT - moderate	12	25.1	0.8	3.2	25	23 - 27	12	29.8	0.9	2.9	30	27 - 32
i-STAT - waived	9	24.8	0.7	2.7	25	23 - 27	9	28.8	0.7	2.3	29	27 - 31
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	20.4	0.8	3.8	20	19 - 22	18	25.1	0.7	2.7	25	23 - 27
All i-STAT Instruments	18	20.4	0.8	3.8	20	19 - 22	18	25.1	0.7	2.7	25	23 - 27
i-STAT - moderate	12	20.5	0.9	4.4	20	19 - 22	12	25.3	0.7	2.6	25	23 - 27
i-STAT - waived	6	20.2	0.4	2.0	20	18 - 22	6	24.7	0.5	2.1	25	23 - 27
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	20.3	0.6	2.8	20	19 - 22						
All i-STAT Instruments	18	20.3	0.6	2.8	20	19 - 22						
i-STAT - moderate	12	20.4	0.5	2.5	20	19 - 22						
i-STAT - waived	6	20.0	0.6	3.2	20	18 - 22						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	8.49	0.22	2.6	8.5	7.8 - 9.1	21	10.00	0.29	2.9	9.9	9.2 - 10.7
All i-STAT Instruments	21	8.49	0.22	2.6	8.5	7.8 - 9.1	21	10.00	0.29	2.9	9.9	9.2 - 10.7
i-STAT - moderate	12	8.53	0.24	2.8	8.5	7.9 - 9.2	12	10.13	0.26	2.6	10.1	9.4 - 10.9
i-STAT - waived	9	8.43	0.20	2.4	8.5	7.8 - 9.1	9	9.82	0.23	2.4	9.9	9.1 - 10.6
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	6.94	0.26	3.7	6.8	6.4 - 7.5	18	8.53	0.20	2.4	8.5	7.9 - 9.2
All i-STAT Instruments	18	6.94	0.26	3.7	6.8	6.4 - 7.5	18	8.53	0.20	2.4	8.5	7.9 - 9.2
i-STAT - moderate	12	6.99	0.30	4.3	7.0	6.5 - 7.5	12	8.60	0.20	2.3	8.5	7.9 - 9.3
i-STAT - waived	6	6.85	0.12	1.8	6.8	6.3 - 7.4	6	8.40	0.15	1.8	8.5	7.8 - 9.0
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	6.88	0.17	2.5	6.8	6.4 - 7.4						
All i-STAT Instruments	18	6.88	0.17	2.5	6.8	6.4 - 7.4						
i-STAT - moderate	12	6.93	0.15	2.2	6.8	6.4 - 7.5						
i-STAT - waived	6	6.80	0.19	2.8	6.8	6.3 - 7.3						

Creatinine (mg/dL)

<u>Instrument</u>	<u>Specimen IST-11</u>						<u>Specimen IST-12</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	115	1.06	0.05	4.9	1.1	0.7 - 1.4	115	0.77	0.05	6.0	0.8	0.4 - 1.1
All i-STAT Instruments	115	1.06	0.05	4.9	1.1	0.7 - 1.4	115	0.77	0.05	6.0	0.8	0.4 - 1.1
i-STAT - moderate	90	1.06	0.05	5.1	1.1	0.7 - 1.4	90	0.77	0.05	5.9	0.8	0.4 - 1.1
i-STAT - waived	28	1.04	0.12	11.2	1.1	0.7 - 1.4	28	0.80	0.12	14.4	0.8	0.5 - 1.1
<u>Instrument</u>	<u>Specimen IST-13</u>						<u>Specimen IST-14</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	3.99	0.11	2.8	4.0	3.3 - 4.6	99	6.20	0.18	2.9	6.2	5.2 - 7.2
All i-STAT Instruments	99	3.99	0.11	2.8	4.0	3.3 - 4.6	99	6.20	0.18	2.9	6.2	5.2 - 7.2
i-STAT - moderate	89	3.98	0.11	2.7	4.0	3.3 - 4.6	89	6.21	0.18	3.0	6.2	5.2 - 7.2
i-STAT - waived	10	4.01	0.14	3.4	4.0	3.4 - 4.7	10	6.16	0.15	2.4	6.1	5.2 - 7.1
<u>Instrument</u>	<u>Specimen IST-15</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	101	3.97	0.13	3.2	4.0	3.3 - 4.6						
All i-STAT Instruments	101	3.97	0.13	3.2	4.0	3.3 - 4.6						
i-STAT - moderate	91	3.97	0.12	3.1	4.0	3.3 - 4.6						
i-STAT - waived	10	4.03	0.15	3.7	4.0	3.4 - 4.7						

Ionized Calcium (mmol/L)

<u>Instrument</u>	<u>Specimen IST-11</u>						<u>Specimen IST-12</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	0.812	0.009	1.1	0.81	0.78 - 0.84	101	0.888	0.008	0.9	0.89	0.86 - 0.92
All i-STAT Instruments	99	0.812	0.009	1.1	0.81	0.78 - 0.84	101	0.888	0.008	0.9	0.89	0.86 - 0.92
i-STAT - moderate	87	0.811	0.008	1.0	0.81	0.78 - 0.84	88	0.887	0.007	0.8	0.89	0.86 - 0.91
i-STAT - waived	13	0.817	0.012	1.5	0.82	0.77 - 0.86	13	0.891	0.013	1.5	0.89	0.85 - 0.94
<u>Instrument</u>	<u>Specimen IST-13</u>						<u>Specimen IST-14</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	2.037	0.022	1.1	2.04	1.97 - 2.11	98	2.179	0.024	1.1	2.18	2.10 - 2.25
All i-STAT Instruments	99	2.037	0.022	1.1	2.04	1.97 - 2.11	98	2.179	0.024	1.1	2.18	2.10 - 2.25
i-STAT - moderate	88	2.033	0.019	0.9	2.04	1.97 - 2.09	89	2.177	0.022	1.0	2.18	2.11 - 2.25
i-STAT - waived	9	-	-	-	2.05	1.97 - 2.11	9	-	-	-	2.21	2.10 - 2.25
<u>Instrument</u>	<u>Specimen IST-15</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	99	2.044	0.019	1.0	2.04	1.98 - 2.11						
All i-STAT Instruments	99	2.044	0.019	1.0	2.04	1.98 - 2.11						
i-STAT - moderate	90	2.042	0.019	0.9	2.04	1.98 - 2.11						
i-STAT - waived	9	-	-	-	2.06	1.98 - 2.11						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	3.46	0.43	12.5	3.6	3.1 - 3.9	167	2.99	0.35	11.9	3.1	2.6 - 3.3
All Bromocresol Green Reagents	125	3.69	0.17	4.6	3.7	3.3 - 4.1	126	3.18	0.14	4.3	3.2	2.8 - 3.5
All Bromocresol Purple Reagents	41	2.76	0.11	4.0	2.8	2.4 - 3.1	40	2.40	0.08	3.5	2.4	2.1 - 2.7
Abaxis Piccolo												
Abaxis Piccolo - waived	15	2.70	0.14	5.2	2.6	2.4 - 3.0	15	2.41	0.14	5.8	2.4	2.1 - 2.7
All Chemistry Instruments	17	2.71	0.13	5.0	2.6	2.4 - 3.0	17	2.41	0.13	5.4	2.4	2.1 - 2.7
Abbott Architect Albumin (BCG)												
Abbott Architect	5	3.52	0.04	1.3	3.5	3.1 - 3.9	5	3.02	0.04	1.5	3.0	2.7 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	3.71	0.09	2.5	3.7	3.3 - 4.1	19	3.21	0.08	2.5	3.2	2.8 - 3.6
Beckman AU												
Beckman AU systems	29	3.71	0.08	2.0	3.7	3.3 - 4.1	29	3.19	0.08	2.4	3.2	2.8 - 3.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	3.44	0.12	3.5	3.4	3.0 - 3.8	18	3.04	0.13	4.2	3.0	2.7 - 3.4
Roche cobas c 501												
Roche cobas 6000 / c 501	7	3.93	0.14	3.5	3.9	3.5 - 4.4	7	3.34	0.11	3.4	3.4	3.0 - 3.7
Roche Integra												
Roche Integra	13	3.88	0.09	2.3	3.9	3.4 - 4.3	13	3.33	0.06	1.9	3.3	2.9 - 3.7
Siemens Healthcare												
Siemens Dimension	24	2.80	0.07	2.6	2.8	2.5 - 3.1	24	2.41	0.06	2.5	2.4	2.1 - 2.7
VITROS												
VITROS 250,350,400 500,700,750,950	15	3.66	0.12	3.2	3.7	3.2 - 4.1	15	3.11	0.11	3.4	3.1	2.8 - 3.5
All Chemistry Instruments	22	3.66	0.12	3.3	3.7	3.2 - 4.1	22	3.10	0.11	3.5	3.1	2.7 - 3.5

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	156	2.02	0.21	10.5	2.1	1.8 - 2.3	156	2.53	0.28	10.9	2.6	2.2 - 2.8
All Bromocresol Green Reagents	126	2.11	0.11	5.3	2.1	1.8 - 2.4	126	2.65	0.13	4.8	2.7	2.3 - 3.0
All Bromocresol Purple Reagents	28	1.63	0.06	3.6	1.6	1.4 - 1.8	29	2.01	0.05	2.4	2.0	1.8 - 2.3
Abaxis Piccolo												
Abaxis Piccolo - waived	5	1.80	0.14	7.9	1.7	1.6 - 2.0	5	2.06	0.09	4.3	2.0	1.8 - 2.3
All Chemistry Instruments	6	1.78	0.13	7.5	1.7	1.6 - 2.0	6	2.07	0.08	4.0	2.1	1.8 - 2.3
Abbott Architect Albumin (BCG)												
Abbott Architect	5	1.98	0.04	2.3	2.0	1.7 - 2.2	5	2.52	0.04	1.8	2.5	2.2 - 2.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	2.15	0.06	2.8	2.2	1.9 - 2.4	19	2.67	0.09	3.5	2.7	2.4 - 3.0
Beckman AU												
Beckman AU systems	29	2.14	0.06	2.6	2.1	1.9 - 2.4	29	2.67	0.06	2.2	2.7	2.4 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.07	0.10	4.6	2.1	1.8 - 2.3	18	2.56	0.08	3.1	2.6	2.3 - 2.9
Roche cobas c 501												
Roche cobas 6000 / c 501	7	2.23	0.11	5.0	2.3	2.0 - 2.5	7	2.83	0.14	4.9	2.9	2.5 - 3.2
Roche Integra												
Roche Integra	13	2.22	0.07	3.1	2.2	1.9 - 2.5	13	2.79	0.08	2.7	2.8	2.5 - 3.1
Siemens Healthcare												
Siemens Dimension	24	1.61	0.05	3.3	1.6	1.4 - 1.8	24	2.00	0.05	2.3	2.0	1.8 - 2.3
VITROS												
VITROS 250,350,400 500,700,750,950	15	1.95	0.08	4.3	1.9	1.7 - 2.2	15	2.53	0.09	3.6	2.5	2.2 - 2.8
All Chemistry Instruments	22	1.96	0.07	3.7	2.0	1.7 - 2.2	22	2.53	0.09	3.7	2.5	2.2 - 2.8

Albumin (g/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	156	3.29	0.36	10.9	3.4	2.9 - 3.7
All Bromocresol Green Reagents	126	3.45	0.16	4.5	3.5	3.1 - 3.8
All Bromocresol Purple Reagents	29	2.60	0.07	2.8	2.6	2.3 - 2.9
Abaxis Piccolo						
Abaxis Piccolo - waived	5	2.64	0.19	7.4	2.5	2.3 - 3.0
All Chemistry Instruments	6	2.62	0.18	7.0	2.5	2.3 - 2.9
Abbott Architect Albumin (BCG)						
Abbott Architect	5	3.32	0.04	1.3	3.3	2.9 - 3.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	3.46	0.11	3.1	3.5	3.1 - 3.9
Beckman AU						
Beckman AU systems	29	3.45	0.06	1.8	3.4	3.1 - 3.8
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	3.25	0.10	3.2	3.3	2.9 - 3.6
Roche cobas c 501						
Roche cobas 6000 / c 501	7	3.63	0.14	3.8	3.7	3.2 - 4.0
Roche Integra						
Roche Integra	13	3.64	0.09	2.4	3.6	3.2 - 4.1
Siemens Healthcare						
Siemens Dimension	24	2.61	0.05	2.1	2.6	2.3 - 2.9
VITROS						
VITROS 250,350,400 500,700,750,950	15	3.45	0.12	3.4	3.4	3.1 - 3.8
All Chemistry Instruments	22	3.42	0.13	3.7	3.4	3.0 - 3.8

Bilirubin, Direct (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	0.86	0.26	29.9	0.9	0.3 - 1.4	90	0.66	0.22	32.7	0.7	0.2 - 1.1
All Roche Reagents	12	0.71	0.19	27.2	0.7	0.3 - 1.1	12	0.54	0.13	24.2	0.6	0.2 - 0.9
Beckman AU												
Beckman AU systems	18	0.88	0.16	18.1	0.9	0.5 - 1.2	18	0.68	0.12	16.8	0.7	0.4 - 1.0
Siemens Healthcare												
Siemens Dimension	17	0.66	0.10	15.2	0.7	0.4 - 0.9	17	0.53	0.08	14.6	0.5	0.3 - 0.7
All Chemistry Instruments	18	0.66	0.10	15.0	0.7	0.4 - 0.9	18	0.53	0.08	14.2	0.5	0.3 - 0.7
VITROS-BuBc and Bc												
All Chemistry Instruments	12	0.85	0.28	33.1	1.0	0.2 - 1.5	12	0.53	0.25	47.5	0.7	0.0 - 1.1
Specimen CH-13							Specimen CH-14					
All Method	90	0.18	0.09	49.7	0.2	0.0 - 0.4	90	0.39	0.15	39.2	0.4	0.0 - 0.7
All Roche Reagents	12	0.16	0.05	32.5	0.2	0.0 - 0.3	12	0.32	0.08	26.4	0.3	0.1 - 0.5
Beckman AU												
Beckman AU systems	18	0.19	0.04	21.4	0.2	0.1 - 0.3	18	0.42	0.07	17.0	0.4	0.2 - 0.6
Siemens Healthcare												
Siemens Dimension	17	0.13	0.05	36.3	0.1	0.0 - 0.3	17	0.29	0.06	18.9	0.3	0.1 - 0.5
All Chemistry Instruments	18	0.13	0.05	36.1	0.1	0.0 - 0.3	18	0.29	0.05	18.3	0.3	0.1 - 0.5
VITROS-BuBc and Bc												
All Chemistry Instruments	12	0.11	0.13	121.0	0.1	0.0 - 0.4	12	0.28	0.20	70.3	0.3	0.0 - 0.7
Specimen CH-15												
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	90	0.80	0.25	31.0	0.8	0.3 - 1.3						
All Roche Reagents	12	0.64	0.16	25.3	0.7	0.3 - 1.0						
Beckman AU												
Beckman AU systems	18	0.82	0.16	19.8	0.8	0.4 - 1.2						
Siemens Healthcare												
Siemens Dimension	17	0.62	0.09	14.5	0.7	0.4 - 0.9						
All Chemistry Instruments	18	0.62	0.09	14.1	0.7	0.4 - 0.8						
VITROS-BuBc and Bc												
All Chemistry Instruments	12	0.73	0.28	38.2	0.9	0.1 - 1.3						

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	158	2.97	0.42	14.1	3.0	2.3 - 3.6	154	2.22	0.31	14.0	2.2	1.7 - 2.7
All Alfa Wassermann Reagents	15	3.48	0.39	11.2	3.5	2.7 - 4.2	15	2.69	0.31	11.4	2.7	2.1 - 3.3
All Horiba Pentra Reagents	18	2.93	0.30	10.1	3.0	2.3 - 3.6	17	2.21	0.24	10.9	2.3	1.7 - 2.7
All Roche T. bili Special Reagents	17	2.75	0.28	10.2	2.8	2.2 - 3.4	17	2.07	0.21	9.9	2.1	1.6 - 2.5
Abaxis Piccolo												
Abaxis Piccolo - waived	15	2.59	0.35	13.5	2.6	2.0 - 3.2	15	1.85	0.30	16.0	1.9	1.4 - 2.3
All Chemistry Instruments	17	2.61	0.33	12.7	2.7	2.0 - 3.2	17	1.87	0.28	15.2	1.9	1.4 - 2.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	3.48	0.39	11.2	3.5	2.7 - 4.2	15	2.69	0.31	11.4	2.7	2.1 - 3.3
Beckman AU												
Beckman AU systems	28	3.24	0.26	8.0	3.3	2.5 - 3.9	28	2.41	0.22	9.1	2.5	1.9 - 2.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.93	0.30	10.1	3.0	2.3 - 3.6	17	2.21	0.24	10.9	2.3	1.7 - 2.7
Siemens Healthcare												
Siemens Dimension	23	2.82	0.41	14.6	2.9	2.2 - 3.4	23	2.17	0.33	15.1	2.2	1.7 - 2.7
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	14	2.98	0.34	11.3	3.0	2.3 - 3.6	14	2.20	0.24	11.1	2.2	1.7 - 2.7
All Chemistry Instruments	20	3.04	0.33	10.8	3.1	2.4 - 3.7	20	2.25	0.24	10.6	2.2	1.8 - 2.7
<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	154	0.63	0.14	21.7	0.6	0.2 - 1.1	150	1.37	0.23	16.7	1.4	0.9 - 1.8
All Alfa Wassermann Reagents	20	0.75	0.16	21.0	0.8	0.3 - 1.2	16	1.66	0.18	10.8	1.7	1.2 - 2.1
All Horiba Pentra Reagents	17	0.60	0.11	18.6	0.6	0.2 - 1.0	18	1.34	0.16	12.1	1.4	0.9 - 1.8
All Roche T. bili Special Reagents	17	0.57	0.10	17.3	0.6	0.1 - 1.0	17	1.23	0.16	13.4	1.2	0.8 - 1.7
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	0.5	0.2 - 1.1	5	-	-	-	1.0	0.9 - 1.8
All Chemistry Instruments	6	-	-	-	0.5	0.1 - 1.0	6	-	-	-	1.1	0.6 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	0.75	0.16	21.0	0.8	0.3 - 1.2	16	1.66	0.18	10.8	1.7	1.2 - 2.1
Beckman AU												
Beckman AU systems	28	0.73	0.08	11.2	0.8	0.3 - 1.2	28	1.53	0.15	9.5	1.5	1.1 - 2.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	0.60	0.11	18.6	0.6	0.2 - 1.0	18	1.34	0.16	12.1	1.4	0.9 - 1.8
Siemens Healthcare												
Siemens Dimension	24	0.58	0.12	21.2	0.6	0.1 - 1.0	24	1.30	0.28	21.5	1.4	0.8 - 1.7
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	15	0.53	0.13	24.2	0.5	0.1 - 1.0	15	1.29	0.23	17.8	1.3	0.8 - 1.7
All Chemistry Instruments	21	0.55	0.13	23.5	0.5	0.1 - 1.0	21	1.34	0.22	16.1	1.4	0.9 - 1.8

Bilirubin, Total (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	147	2.67	0.38	14.3	2.7	2.1 - 3.3
All Alfa Wassermann Reagents	16	3.09	0.36	11.8	3.1	2.4 - 3.8
All Horiba Pentra Reagents	18	2.67	0.28	10.5	2.8	2.1 - 3.3
All Roche T. bili Special Reagents	17	2.43	0.24	10.1	2.5	1.9 - 3.0
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	2.1	2.1 - 3.3
All Chemistry Instruments	5	-	-	-	2.1	1.6 - 2.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	3.09	0.36	11.8	3.1	2.4 - 3.8
Beckman AU						
Beckman AU systems	28	2.86	0.25	8.6	2.9	2.2 - 3.5
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	2.67	0.28	10.5	2.8	2.1 - 3.3
Siemens Healthcare						
Siemens Dimension	23	2.60	0.39	15.1	2.7	2.0 - 3.2
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	14	2.64	0.28	10.7	2.6	2.1 - 3.2
All Chemistry Instruments	20	2.72	0.30	11.2	2.8	2.1 - 3.3

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	11.96	0.33	2.7	12.0	10.9 - 13.0	167	10.73	0.30	2.8	10.7	9.7 - 11.8
All Arsenazo Methods	75	11.94	0.37	3.1	11.9	10.9 - 13.0	76	10.78	0.32	3.0	10.8	9.7 - 11.8
All CPC Methods	89	11.98	0.29	2.4	12.0	10.9 - 13.0	90	10.68	0.27	2.5	10.7	9.6 - 11.7
Abaxis Piccolo												
Abaxis Piccolo - waived	15	12.02	0.34	2.8	12.0	11.0 - 13.1	15	10.89	0.30	2.8	10.9	9.8 - 11.9
All Chemistry Instruments	17	11.99	0.33	2.8	12.0	10.9 - 13.0	17	10.88	0.29	2.7	10.9	9.8 - 11.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	11.76	0.34	2.9	11.8	10.7 - 12.8	20	10.74	0.30	2.8	10.7	9.7 - 11.8
Beckman AU												
Beckman AU systems	29	12.02	0.21	1.8	12.1	11.0 - 13.1	29	10.72	0.20	1.9	10.7	9.7 - 11.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	12.09	0.35	2.9	12.1	11.0 - 13.1	16	10.80	0.28	2.6	10.9	9.8 - 11.8
Roche Integra												
Roche Integra	13	12.09	0.25	2.0	12.1	11.0 - 13.1	13	10.86	0.21	2.0	10.8	9.8 - 11.9
Siemens Healthcare												
Siemens Dimension	22	11.74	0.28	2.4	11.7	10.7 - 12.8	23	10.43	0.24	2.3	10.5	9.4 - 11.5
All Chemistry Instruments	23	11.74	0.28	2.4	11.7	10.7 - 12.8	24	10.44	0.24	2.3	10.5	9.4 - 11.5
VITROS												
VITROS 250,350,400 500,700,750,950	15	12.10	0.27	2.2	12.1	11.1 - 13.1	15	10.91	0.24	2.2	10.8	9.9 - 12.0
All Chemistry Instruments	22	12.08	0.26	2.1	12.1	11.0 - 13.1	22	10.87	0.23	2.1	10.8	9.8 - 11.9

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	8.20	0.26	3.2	8.2	7.1 - 9.2	154	9.44	0.25	2.7	9.4	8.4 - 10.5
All Arsenazo Methods	63	8.28	0.30	3.6	8.3	7.2 - 9.3	65	9.54	0.34	3.6	9.5	8.5 - 10.6
All CPC Methods	88	8.13	0.20	2.5	8.1	7.1 - 9.2	90	9.39	0.21	2.2	9.4	8.3 - 10.4
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	8.5	7.2 - 9.3	5	-	-	-	9.9	8.5 - 10.6
All Chemistry Instruments	6	-	-	-	8.5	7.4 - 9.5	6	-	-	-	9.8	8.7 - 10.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	8.45	0.23	2.8	8.5	7.4 - 9.5	20	9.62	0.32	3.4	9.6	8.6 - 10.7
Beckman AU												
Beckman AU systems	28	8.13	0.16	2.0	8.2	7.1 - 9.2	29	9.43	0.15	1.6	9.4	8.4 - 10.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	8.16	0.25	3.0	8.2	7.1 - 9.2	16	9.44	0.19	2.0	9.5	8.4 - 10.5
Roche Integra												
Roche Integra	13	8.27	0.21	2.5	8.3	7.2 - 9.3	13	9.54	0.20	2.1	9.6	8.5 - 10.6
Siemens Healthcare												
Siemens Dimension	23	7.98	0.14	1.8	8.0	6.9 - 9.0	23	9.19	0.14	1.6	9.2	8.1 - 10.2
All Chemistry Instruments	24	7.98	0.14	1.7	8.0	6.9 - 9.0	24	9.19	0.14	1.5	9.2	8.1 - 10.2
VITROS												
VITROS 250,350,400 500,700,750,950	15	8.29	0.24	2.8	8.2	7.2 - 9.3	15	9.63	0.23	2.3	9.6	8.6 - 10.7
All Chemistry Instruments	22	8.25	0.23	2.7	8.2	7.2 - 9.3	22	9.60	0.21	2.2	9.6	8.6 - 10.7

Calcium (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	155	11.37	0.29	2.6	11.4	10.3 - 12.4
All Arsenazo Methods	64	11.46	0.33	2.8	11.4	10.4 - 12.5
All CPC Methods	90	11.32	0.25	2.2	11.3	10.3 - 12.4
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	11.6	10.4 - 12.5
All Chemistry Instruments	6	-	-	-	11.6	10.5 - 12.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	11.39	0.31	2.7	11.4	10.3 - 12.4
Beckman AU						
Beckman AU systems	29	11.37	0.21	1.9	11.4	10.3 - 12.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	11.39	0.29	2.5	11.4	10.3 - 12.4
Roche Integra						
Roche Integra	13	11.40	0.28	2.4	11.5	10.4 - 12.4
Siemens Healthcare						
Siemens Dimension	23	11.11	0.18	1.6	11.1	10.1 - 12.2
All Chemistry Instruments	24	11.11	0.18	1.6	11.1	10.1 - 12.2
VITROS						
VITROS 250,350,400 500,700,750,950	15	11.57	0.28	2.5	11.5	10.5 - 12.6
All Chemistry Instruments	22	11.53	0.27	2.3	11.5	10.5 - 12.6

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	4.31	0.27	6.4	4.3	3.6 - 5.0	167	3.40	0.18	5.2	3.4	2.8 - 4.0
All Alfa Wassermann Reagents	20	4.14	0.13	3.2	4.2	3.5 - 4.8	21	3.34	0.10	3.1	3.4	2.8 - 3.9
All Roche Reagents	21	4.05	0.20	5.0	4.0	3.4 - 4.7	21	3.26	0.14	4.2	3.2	2.7 - 3.8
All VITROS Reagents	22	4.75	0.11	2.3	4.8	4.0 - 5.5	22	3.62	0.09	2.5	3.6	3.0 - 4.2
Abaxis Piccolo												
Abaxis Piccolo - waived	15	4.41	0.19	4.2	4.5	3.7 - 5.1	15	3.48	0.17	4.8	3.6	2.9 - 4.1
All Chemistry Instruments	17	4.38	0.19	4.4	4.4	3.7 - 5.1	17	3.48	0.16	4.5	3.5	2.9 - 4.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	4.14	0.13	3.2	4.2	3.5 - 4.8	21	3.34	0.10	3.1	3.4	2.8 - 3.9
Beckman AU												
Beckman AU systems	30	4.23	0.17	4.1	4.3	3.5 - 4.9	30	3.35	0.13	3.9	3.4	2.8 - 3.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	4.05	0.14	3.5	4.0	3.4 - 4.7	17	3.20	0.13	4.1	3.2	2.7 - 3.7
Roche Integra												
Roche Integra	13	3.99	0.12	3.0	4.0	3.3 - 4.6	13	3.22	0.09	2.8	3.2	2.7 - 3.7
Siemens Healthcare												
Siemens Dimension	23	4.44	0.09	2.1	4.4	3.7 - 5.2	23	3.46	0.08	2.4	3.4	2.9 - 4.0
All Chemistry Instruments	24	4.44	0.09	2.1	4.4	3.7 - 5.2	24	3.46	0.08	2.4	3.4	2.9 - 4.0
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	11	4.76	0.10	2.2	4.8	4.0 - 5.5	11	3.64	0.09	2.5	3.6	3.0 - 4.2
All Chemistry Instruments	17	4.74	0.11	2.4	4.8	4.0 - 5.5	17	3.61	0.10	2.7	3.6	3.0 - 4.2

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	156	1.51	0.09	6.0	1.5	1.2 - 1.9	155	2.44	0.12	5.0	2.5	2.0 - 2.9
All Alfa Wassermann Reagents	21	1.58	0.10	6.2	1.6	1.2 - 1.9	21	2.47	0.11	4.5	2.5	2.1 - 2.9
All Roche Reagents	21	1.48	0.08	5.2	1.5	1.1 - 1.8	21	2.37	0.08	3.6	2.4	2.0 - 2.8
All VITROS Reagents	22	1.52	0.05	3.3	1.5	1.2 - 1.9	22	2.54	0.08	3.1	2.5	2.1 - 3.0
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	1.5	1.2 - 1.9	5	-	-	-	2.5	2.0 - 2.9
All Chemistry Instruments	6	-	-	-	1.5	1.2 - 1.9	6	-	-	-	2.5	2.0 - 2.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	1.58	0.10	6.2	1.6	1.2 - 1.9	21	2.47	0.11	4.5	2.5	2.1 - 2.9
Beckman AU												
Beckman AU systems	30	1.47	0.08	5.3	1.5	1.1 - 1.8	30	2.42	0.12	4.8	2.4	2.0 - 2.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	1.41	0.08	5.5	1.4	1.1 - 1.8	17	2.29	0.09	4.1	2.3	1.9 - 2.7
Roche Integra												
Roche Integra	13	1.46	0.07	4.5	1.5	1.1 - 1.8	13	2.36	0.07	2.8	2.4	2.0 - 2.8
Siemens Healthcare												
Siemens Dimension	23	1.57	0.06	3.7	1.6	1.2 - 1.9	23	2.48	0.07	2.6	2.5	2.1 - 2.9
All Chemistry Instruments	24	1.56	0.07	4.2	1.6	1.2 - 1.9	24	2.48	0.07	2.7	2.5	2.1 - 2.9
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	11	1.52	0.04	2.7	1.5	1.2 - 1.9	11	2.55	0.09	3.7	2.6	2.1 - 3.0
All Chemistry Instruments	17	1.51	0.05	3.2	1.5	1.2 - 1.9	17	2.54	0.09	3.4	2.5	2.1 - 3.0

Creatinine (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	155	3.85	0.22	5.8	3.9	3.2 - 4.5
All Alfa Wassermann Reagents	20	3.74	0.14	3.7	3.7	3.1 - 4.4
All Roche Reagents	21	3.66	0.16	4.3	3.6	3.1 - 4.3
All VITROS Reagents	22	4.17	0.10	2.4	4.2	3.5 - 4.8
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	4.0	3.2 - 4.5
All Chemistry Instruments	6	-	-	-	4.0	3.3 - 4.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	3.74	0.14	3.7	3.7	3.1 - 4.4
Beckman AU						
Beckman AU systems	30	3.79	0.17	4.5	3.8	3.2 - 4.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	3.62	0.12	3.3	3.6	3.0 - 4.2
Roche Integra						
Roche Integra	13	3.62	0.08	2.3	3.6	3.0 - 4.2
Siemens Healthcare						
Siemens Dimension	23	3.95	0.09	2.3	4.0	3.3 - 4.6
All Chemistry Instruments	24	3.95	0.09	2.2	4.0	3.3 - 4.6
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	11	4.15	0.10	2.5	4.1	3.5 - 4.8
All Chemistry Instruments	17	4.16	0.10	2.4	4.2	3.5 - 4.8

Glucose (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	174	218.4	7.1	3.2	218	196 - 241	176	177.3	7.0	4.0	177	159 - 195
All Alfa Wassermann Reagents	22	231.1	5.0	2.2	232	207 - 255	22	189.7	4.7	2.5	191	170 - 209
All Horiba Pentra Reagents	17	213.9	6.4	3.0	214	192 - 236	17	173.2	6.0	3.4	172	155 - 191
All Roche Reagents	21	219.3	4.3	1.9	220	197 - 242	21	177.7	3.2	1.8	177	159 - 196
Abaxis Piccolo												
Abaxis Piccolo - waived	15	214.4	3.5	1.7	214	192 - 236	15	174.6	1.8	1.0	175	157 - 193
All Chemistry Instruments	17	213.9	3.6	1.7	213	192 - 236	17	174.3	1.9	1.1	174	156 - 192
Abbott Architect												
Abbott Architect	5	214.4	3.6	1.7	216	192 - 236	5	172.2	5.6	3.3	174	154 - 190
Alere Cholestech LDX												
Alere Cholestech LDX - waived	7	211.1	5.4	2.5	209	190 - 233	8	166.0	4.1	2.5	165	149 - 183
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	231.1	5.0	2.2	232	207 - 255	22	189.7	4.7	2.5	191	170 - 209
Beckman AU												
Beckman AU systems	29	215.7	5.7	2.6	217	194 - 238	29	175.8	4.8	2.7	177	158 - 194
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	213.9	6.4	3.0	214	192 - 236	17	173.2	6.0	3.4	172	155 - 191
Roche cobas c 501												
Roche cobas 6000 / c 501	7	217.0	4.5	2.1	217	195 - 239	7	176.0	2.3	1.3	176	158 - 194
Roche Integra												
Roche Integra	13	220.9	3.5	1.6	221	198 - 244	13	179.0	3.1	1.7	179	161 - 197
Siemens Healthcare												
Siemens Dimension	22	219.1	2.4	1.1	220	197 - 241	22	179.1	2.4	1.3	179	161 - 197
All Chemistry Instruments	24	218.4	3.4	1.5	219	196 - 241	23	178.9	2.6	1.4	179	160 - 197
VITROS												
VITROS 250,350,400 500,700,750,950	15	218.7	5.1	2.3	217	196 - 241	15	174.9	4.0	2.3	174	157 - 193
All Chemistry Instruments	22	218.0	4.7	2.2	217	196 - 240	22	174.2	3.7	2.1	174	156 - 192

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	158	95.8	4.4	4.6	95	86 - 106	158	136.5	5.7	4.2	136	122 - 151
All Alfa Wassermann Reagents	22	103.9	2.3	2.2	104	93 - 115	22	146.3	4.1	2.8	147	131 - 161
All Horiba Pentra Reagents	17	92.5	3.0	3.2	93	83 - 102	17	132.4	4.7	3.5	133	119 - 146
All Roche Reagents	21	95.2	2.3	2.4	95	85 - 105	21	136.9	3.1	2.3	137	123 - 151
Abaxis Piccolo												
Abaxis Piccolo - waived	5	95.6	1.3	1.4	95	86 - 106	5	135.2	1.8	1.3	135	121 - 149
All Chemistry Instruments	6	95.3	1.4	1.4	95	85 - 105	6	134.7	2.1	1.5	135	121 - 149
Abbott Architect												
Abbott Architect	5	94.4	1.3	1.4	95	84 - 104	5	132.8	2.8	2.1	132	119 - 147
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	89	86 - 106	1	-	-	-	127	122 - 151
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	103.9	2.3	2.2	104	93 - 115	22	146.3	4.1	2.8	147	131 - 161
Beckman AU												
Beckman AU systems	29	94.3	2.7	2.8	95	84 - 104	29	134.5	4.0	2.9	135	121 - 148
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	92.5	3.0	3.2	93	83 - 102	17	132.4	4.7	3.5	133	119 - 146
Roche cobas c 501												
Roche cobas 6000 / c 501	7	93.4	1.9	2.0	93	84 - 103	7	134.7	2.4	1.8	134	121 - 149
Roche Integra												
Roche Integra	13	96.4	1.8	1.8	96	86 - 107	13	138.2	2.8	2.0	138	124 - 153
Siemens Healthcare												
Siemens Dimension	22	96.5	1.3	1.3	97	86 - 107	22	137.8	1.7	1.2	138	124 - 152
All Chemistry Instruments	23	96.4	1.4	1.4	97	86 - 107	24	137.2	2.7	2.0	138	123 - 151
VITROS												
VITROS 250,350,400 500,700,750,950	15	92.3	2.9	3.1	93	83 - 102	15	132.4	3.5	2.7	134	119 - 146
All Chemistry Instruments	22	92.2	2.5	2.7	92	82 - 102	22	132.1	3.0	2.3	132	118 - 146

Glucose (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	157	198.2	7.5	3.8	198	178 - 219
All Alfa Wassermann Reagents	22	211.6	3.6	1.7	211	190 - 233
All Horiba Pentra Reagents	17	191.1	5.4	2.8	190	171 - 211
All Roche Reagents	21	198.1	3.4	1.7	198	178 - 218
Abaxis Piccolo						
Abaxis Piccolo - waived	5	194.2	2.0	1.1	195	174 - 214
All Chemistry Instruments	6	193.5	2.5	1.3	194	174 - 213
Abbott Architect						
Abbott Architect	5	193.4	4.3	2.2	193	174 - 213
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	189	178 - 219
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	22	211.6	3.6	1.7	211	190 - 233
Beckman AU						
Beckman AU systems	29	194.8	5.8	3.0	194	175 - 215
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	191.1	5.4	2.8	190	171 - 211
Roche cobas c 501						
Roche cobas 6000 / c 501	7	195.9	2.3	1.2	196	176 - 216
Roche Integra						
Roche Integra	13	199.5	3.3	1.6	198	179 - 220
Siemens Healthcare						
Siemens Dimension	22	199.4	2.2	1.1	200	179 - 220
All Chemistry Instruments	23	199.3	2.2	1.1	199	179 - 220
VITROS						
VITROS 250,350,400 500,700,750,950	15	196.5	5.0	2.5	196	176 - 217
All Chemistry Instruments	22	195.8	4.4	2.3	195	176 - 216

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.78	0.23	3.9	5.7	5.0 - 6.5	5	4.44	0.18	4.1	4.4	3.8 - 5.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.68	0.08	5.0	1.7	1.2 - 2.1	5	3.04	0.11	3.8	3.0	2.6 - 3.5
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	5.14	0.17	3.3	5.1	4.6 - 5.7						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	4.11	0.27	6.7	4.1	3.0 - 5.2	88	3.43	0.23	6.6	3.4	2.5 - 4.3
All Horiba Pentra Reagents	15	3.84	0.29	7.7	3.9	2.8 - 4.8	15	3.19	0.20	6.2	3.2	2.3 - 4.0
All Roche Reagents	15	3.97	0.11	2.8	4.0	2.9 - 5.0	15	3.34	0.08	2.5	3.3	2.5 - 4.2
Beckman AU												
Beckman AU systems	19	4.07	0.12	2.9	4.1	3.0 - 5.1	19	3.41	0.09	2.7	3.4	2.5 - 4.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	3.84	0.29	7.7	3.9	2.8 - 4.8	15	3.19	0.20	6.2	3.2	2.3 - 4.0
Roche Integra												
Roche Integra	10	3.86	0.22	5.6	3.9	2.8 - 4.9	10	3.25	0.17	5.3	3.3	2.4 - 4.1
Siemens Healthcare												
Siemens Dimension	15	4.28	0.11	2.7	4.3	3.2 - 5.4	15	3.59	0.12	3.3	3.6	2.6 - 4.5
VITROS												
All Chemistry Instruments	11	4.49	0.09	2.1	4.5	3.3 - 5.7	11	3.76	0.08	2.1	3.7	2.8 - 4.8

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	2.05	0.14	6.7	2.1	1.5 - 2.6	88	2.75	0.16	5.7	2.7	2.0 - 3.5
All Horiba Pentra Reagents	15	1.90	0.15	7.7	1.9	1.4 - 2.4	15	2.61	0.18	7.1	2.6	1.9 - 3.3
All Roche Reagents	15	2.01	0.05	2.6	2.0	1.5 - 2.6	15	2.70	0.08	2.8	2.7	2.0 - 3.4
Beckman AU												
Beckman AU systems	19	2.04	0.06	3.0	2.0	1.5 - 2.6	19	2.71	0.09	3.4	2.7	2.0 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	1.90	0.15	7.7	1.9	1.4 - 2.4	15	2.61	0.18	7.1	2.6	1.9 - 3.3
Roche Integra												
Roche Integra	10	1.97	0.11	5.4	2.0	1.4 - 2.5	10	2.63	0.16	6.2	2.7	1.9 - 3.3
Siemens Healthcare												
Siemens Dimension	15	2.12	0.11	5.1	2.1	1.5 - 2.7	15	2.84	0.10	3.5	2.8	2.1 - 3.6
VITROS												
All Chemistry Instruments	11	2.25	0.07	3.1	2.3	1.6 - 2.9	11	2.98	0.08	2.5	3.0	2.2 - 3.8

<u>Reagent/Instrument</u>	Specimen CH-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	3.77	0.23	6.2	3.8	2.8 - 4.8
All Horiba Pentra Reagents	15	3.53	0.24	6.7	3.6	2.6 - 4.5
All Roche Reagents	15	3.67	0.10	2.9	3.7	2.7 - 4.6
Beckman AU						
Beckman AU systems	19	3.73	0.09	2.4	3.7	2.7 - 4.7
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	3.53	0.24	6.7	3.6	2.6 - 4.5
Roche Integra						
Roche Integra	10	3.55	0.21	6.0	3.6	2.6 - 4.5
Siemens Healthcare						
Siemens Dimension	15	3.91	0.11	2.9	3.9	2.9 - 4.9
VITROS						
All Chemistry Instruments	11	4.14	0.10	2.5	4.1	3.1 - 5.2

Phosphorus (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	4.87	0.26	5.3	4.9	4.3 - 5.4	64	4.06	0.22	5.5	4.0	3.6 - 4.5
All Roche Reagents	13	4.77	0.10	2.2	4.7	4.2 - 5.3	13	3.93	0.08	1.9	3.9	3.5 - 4.4
Beckman AU												
Beckman AU systems	14	4.74	0.16	3.4	4.8	4.2 - 5.3	14	3.96	0.18	4.5	4.0	3.5 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	5.33	0.20	3.7	5.4	4.7 - 5.9	8	4.45	0.12	2.7	4.5	4.0 - 4.9
Roche Integra												
Roche Integra	8	4.74	0.07	1.6	4.7	4.2 - 5.3	8	3.91	0.06	1.6	3.9	3.5 - 4.4
Siemens Healthcare												
Siemens Dimension	10	4.99	0.11	2.2	5.0	4.4 - 5.5	10	4.17	0.09	2.3	4.2	3.7 - 4.6
VITROS												
VITROS 250,350,400 500,700,750,950	5	4.90	0.16	3.2	4.9	4.4 - 5.4	5	4.10	0.14	3.4	4.1	3.6 - 4.6
All Chemistry Instruments	9	4.89	0.14	2.8	4.9	4.4 - 5.4	9	4.11	0.11	2.6	4.1	3.6 - 4.6
<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	2.44	0.16	6.8	2.4	2.1 - 2.8	64	3.25	0.19	5.7	3.2	2.9 - 3.6
All Roche Reagents	13	2.32	0.07	3.0	2.3	2.0 - 2.7	13	3.15	0.09	2.8	3.2	2.8 - 3.5
Beckman AU												
Beckman AU systems	14	2.37	0.12	5.1	2.4	2.0 - 2.7	14	3.16	0.14	4.4	3.2	2.8 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	2.60	0.11	4.1	2.6	2.3 - 2.9	8	3.50	0.14	4.0	3.5	3.1 - 3.9
Roche Integra												
Roche Integra	8	2.31	0.06	2.8	2.3	2.0 - 2.7	8	3.13	0.07	2.3	3.1	2.8 - 3.5
Siemens Healthcare												
Siemens Dimension	10	2.52	0.09	3.6	2.5	2.2 - 2.9	10	3.33	0.09	2.8	3.4	2.9 - 3.7
VITROS												
VITROS 250,350,400 500,700,750,950	5	2.62	0.08	3.2	2.6	2.3 - 3.0	5	3.38	0.11	3.2	3.4	3.0 - 3.8
All Chemistry Instruments	9	2.66	0.07	2.7	2.7	2.3 - 3.0	9	3.39	0.09	2.7	3.4	3.0 - 3.8
<u>Reagent/Instrument</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	64	4.45	0.24	5.4	4.4	4.0 - 4.9						
All Roche Reagents	13	4.33	0.09	2.0	4.3	3.8 - 4.8						
Beckman AU												
Beckman AU systems	14	4.34	0.15	3.5	4.4	3.9 - 4.8						
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	4.85	0.20	4.1	4.9	4.3 - 5.4						
Roche Integra												
Roche Integra	8	4.30	0.05	1.2	4.3	3.8 - 4.8						
Siemens Healthcare												
Siemens Dimension	10	4.58	0.10	2.3	4.6	4.1 - 5.1						
VITROS												
VITROS 250,350,400 500,700,750,950	5	4.50	0.12	2.7	4.5	4.0 - 5.0						
All Chemistry Instruments	9	4.49	0.12	2.6	4.5	4.0 - 5.0						

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	162	6.96	0.24	3.4	7.0	6.2 - 7.7	162	5.88	0.20	3.3	5.9	5.2 - 6.5
All Alfa Wassermann Reagents	20	7.11	0.18	2.6	7.2	6.3 - 7.9	20	6.01	0.17	2.9	6.0	5.4 - 6.7
All Horiba Pentra Reagents	17	6.99	0.18	2.6	7.0	6.2 - 7.7	17	5.89	0.16	2.6	5.9	5.3 - 6.5
All Roche Reagents	21	6.80	0.22	3.3	6.8	6.1 - 7.5	21	5.73	0.18	3.1	5.7	5.1 - 6.4
Abaxis Piccolo												
Abaxis Piccolo - waived	14	6.95	0.13	1.9	6.9	6.2 - 7.7	14	5.90	0.10	1.8	5.9	5.3 - 6.5
All Chemistry Instruments	16	6.95	0.13	1.8	6.9	6.2 - 7.7	16	5.90	0.10	1.6	5.9	5.3 - 6.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	7.11	0.18	2.6	7.2	6.3 - 7.9	20	6.01	0.17	2.9	6.0	5.4 - 6.7
Beckman AU												
Beckman AU systems	29	6.87	0.14	2.0	6.9	6.1 - 7.6	29	5.77	0.12	2.1	5.8	5.1 - 6.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	6.99	0.18	2.6	7.0	6.2 - 7.7	17	5.89	0.16	2.6	5.9	5.3 - 6.5
Roche Integra												
Roche Integra	13	6.65	0.13	1.9	6.7	5.9 - 7.4	13	5.62	0.10	1.8	5.6	5.0 - 6.2
Siemens Healthcare												
Siemens Dimension	23	7.26	0.10	1.4	7.2	6.5 - 8.0	23	6.11	0.11	1.8	6.1	5.5 - 6.8
VITROS												
VITROS 250,350,400 500,700,750,950	15	6.71	0.17	2.5	6.7	6.0 - 7.4	15	5.79	0.15	2.6	5.8	5.2 - 6.4
All Chemistry Instruments	21	6.71	0.19	2.9	6.7	6.0 - 7.4	21	5.78	0.17	3.0	5.8	5.1 - 6.4

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	151	3.69	0.14	3.7	3.7	3.3 - 4.1	152	4.79	0.17	3.5	4.8	4.3 - 5.3
All Alfa Wassermann Reagents	20	3.73	0.15	3.9	3.7	3.3 - 4.2	19	4.88	0.16	3.3	4.9	4.3 - 5.4
All Horiba Pentra Reagents	17	3.68	0.12	3.2	3.7	3.3 - 4.1	17	4.79	0.13	2.7	4.8	4.3 - 5.3
All Roche Reagents	20	3.60	0.12	3.2	3.6	3.2 - 4.0	21	4.67	0.17	3.6	4.6	4.2 - 5.2
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	3.8	3.3 - 4.1	5	-	-	-	4.9	4.3 - 5.3
All Chemistry Instruments	6	-	-	-	3.8	3.4 - 4.2	6	-	-	-	4.9	4.3 - 5.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	3.73	0.15	3.9	3.7	3.3 - 4.2	19	4.88	0.16	3.3	4.9	4.3 - 5.4
Beckman AU												
Beckman AU systems	29	3.60	0.08	2.3	3.6	3.2 - 4.0	29	4.69	0.09	1.9	4.7	4.2 - 5.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	3.68	0.12	3.2	3.7	3.3 - 4.1	17	4.79	0.13	2.7	4.8	4.3 - 5.3
Roche Integra												
Roche Integra	12	3.53	0.09	2.5	3.5	3.1 - 3.9	13	4.57	0.09	1.9	4.6	4.1 - 5.1
Siemens Healthcare												
Siemens Dimension	22	3.81	0.06	1.6	3.8	3.4 - 4.2	23	4.97	0.10	1.9	5.0	4.4 - 5.5
VITROS												
VITROS 250,350,400 500,700,750,950	15	3.77	0.11	3.0	3.8	3.3 - 4.2	15	4.78	0.14	2.9	4.8	4.3 - 5.3
All Chemistry Instruments	21	3.75	0.12	3.1	3.8	3.3 - 4.2	21	4.78	0.15	3.1	4.8	4.3 - 5.3

Protein, Total (g/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	6.42	0.22	3.4	6.4	5.7 - 7.1
All Alfa Wassermann Reagents	20	6.58	0.16	2.5	6.6	5.9 - 7.3
All Horiba Pentra Reagents	17	6.41	0.15	2.3	6.5	5.7 - 7.1
All Roche Reagents	21	6.26	0.19	3.0	6.2	5.6 - 6.9
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	6.5	5.7 - 7.1
All Chemistry Instruments	6	-	-	-	6.5	5.8 - 7.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	6.58	0.16	2.5	6.6	5.9 - 7.3
Beckman AU						
Beckman AU systems	29	6.33	0.14	2.2	6.3	5.6 - 7.0
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	6.41	0.15	2.3	6.5	5.7 - 7.1
Roche Integra						
Roche Integra	13	6.14	0.11	1.8	6.1	5.5 - 6.8
Siemens Healthcare						
Siemens Dimension	23	6.69	0.12	1.8	6.7	6.0 - 7.4
VITROS						
VITROS 250,350,400 500,700,750,950	15	6.27	0.13	2.1	6.3	5.6 - 6.9
All Chemistry Instruments	21	6.26	0.15	2.5	6.3	5.6 - 6.9

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	36.6	2.7	7.5	37	33 - 40	166	29.0	2.3	7.8	30	26 - 32
All Alfa Wassermann Reagents	21	37.4	1.5	3.9	37	34 - 41	21	29.9	1.1	3.6	30	27 - 33
All Horiba Pentra Reagents	17	34.4	0.9	2.5	35	31 - 38	15	27.6	1.4	5.1	27	25 - 31
All Roche Reagents	21	37.8	1.1	3.0	38	34 - 42	21	29.8	0.8	2.8	30	27 - 33
Abaxis Piccolo												
Abaxis Piccolo - waived	15	35.4	0.8	2.3	35	32 - 39	15	27.5	0.5	1.9	28	25 - 31
All Chemistry Instruments	17	35.3	0.8	2.4	35	32 - 39	17	27.6	0.6	2.2	28	25 - 31
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	37.4	1.5	3.9	37	34 - 41	21	29.9	1.1	3.6	30	27 - 33
Beckman AU												
Beckman AU systems	29	38.8	1.2	3.1	39	35 - 43	29	30.7	1.0	3.4	31	27 - 34
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	34.4	0.9	2.5	35	31 - 38	15	27.6	1.4	5.1	27	25 - 31
Roche Integra												
Roche Integra	13	37.8	1.4	3.7	38	34 - 42	13	29.8	1.0	3.4	30	27 - 33
Siemens Healthcare												
Siemens Dimension	23	38.7	1.0	2.5	39	35 - 43	23	30.7	0.9	2.9	31	27 - 34
All Chemistry Instruments	24	38.6	1.0	2.6	39	35 - 43	24	30.7	0.9	2.8	31	27 - 34
VITROS												
VITROS 250,350,400 500,700,750,950	15	31.5	0.8	2.6	31	28 - 35	15	24.9	0.6	2.4	25	22 - 28
All Chemistry Instruments	22	31.5	0.9	2.9	31	28 - 35	22	24.8	0.6	2.5	25	22 - 28

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	156	13.9	1.2	8.4	14	11 - 16	157	21.4	1.8	8.3	22	19 - 24
All Alfa Wassermann Reagents	21	14.2	0.7	4.8	14	12 - 17	21	22.0	1.2	5.4	22	20 - 24
All Horiba Pentra Reagents	17	13.2	0.5	4.0	13	11 - 16	17	20.2	1.0	4.8	20	18 - 23
All Roche Reagents	21	14.0	0.5	3.9	14	12 - 16	21	21.9	0.5	2.5	22	19 - 24
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	14	11 - 16	5	-	-	-	20	19 - 24
All Chemistry Instruments	6	-	-	-	14	11 - 16	6	-	-	-	20	18 - 23
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	14.2	0.7	4.8	14	12 - 17	21	22.0	1.2	5.4	22	20 - 24
Beckman AU												
Beckman AU systems	28	14.9	0.4	2.8	15	12 - 17	29	22.8	0.8	3.6	23	20 - 25
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	13.2	0.5	4.0	13	11 - 16	17	20.2	1.0	4.8	20	18 - 23
Roche Integra												
Roche Integra	13	14.0	0.7	5.1	14	12 - 16	13	21.9	0.6	2.9	22	19 - 24
Siemens Healthcare												
Siemens Dimension	23	14.6	0.7	4.5	15	12 - 17	23	22.6	0.8	3.7	23	20 - 25
All Chemistry Instruments	24	14.5	0.7	4.5	15	12 - 17	24	22.6	0.8	3.7	23	20 - 25
VITROS												
VITROS 250,350,400 500,700,750,950	15	12.0	0.4	3.1	12	10 - 14	15	18.5	0.5	2.8	18	16 - 21
All Chemistry Instruments	22	11.9	0.5	3.9	12	9 - 14	22	18.2	0.7	3.8	18	16 - 21

Urea Nitrogen (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	157	32.9	2.6	7.8	34	29 - 36
All Alfa Wassermann Reagents	21	33.7	1.3	3.9	34	30 - 37
All Horiba Pentra Reagents	17	31.1	1.2	3.9	31	28 - 34
All Roche Reagents	21	33.8	0.9	2.6	34	30 - 37
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	31	29 - 36
All Chemistry Instruments	6	-	-	-	31	28 - 34
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	33.7	1.3	3.9	34	30 - 37
Beckman AU						
Beckman AU systems	29	34.8	1.0	3.0	35	31 - 38
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	31.1	1.2	3.9	31	28 - 34
Roche Integra						
Roche Integra	13	33.9	1.0	2.8	34	30 - 37
Siemens Healthcare						
Siemens Dimension	23	34.8	1.2	3.5	35	31 - 38
All Chemistry Instruments	24	34.8	1.2	3.4	35	31 - 38
VITROS						
VITROS 250,350,400 500,700,750,950	15	28.3	0.7	2.5	28	25 - 31
All Chemistry Instruments	22	28.1	0.8	2.9	28	25 - 31

Uric Acid (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	8.67	0.37	4.2	8.7	7.1 - 10.2
All Alfa Wassermann Reagents	12	8.57	0.40	4.7	8.5	7.1 - 10.1
All Roche Reagents	15	8.63	0.23	2.6	8.6	7.1 - 10.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	12	8.57	0.40	4.7	8.5	7.1 - 10.1
Beckman AU						
Beckman AU systems	21	8.86	0.16	1.8	8.9	7.3 - 10.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	10	8.61	0.31	3.6	8.6	7.1 - 10.1
Roche Integra						
Roche Integra	10	8.74	0.20	2.2	8.8	7.2 - 10.3
Siemens Healthcare						
Siemens Dimension	17	8.48	0.17	2.0	8.5	7.0 - 10.0
All Chemistry Instruments	18	8.51	0.22	2.6	8.5	7.0 - 10.0
VITROS						
All Chemistry Instruments	12	8.65	0.12	1.4	8.7	7.1 - 10.2

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	162	112.1	3.2	2.8	112	106 - 118	161	106.5	2.7	2.5	106	101 - 112
Abaxis Piccolo												
Abaxis Piccolo - waived	15	114.4	1.4	1.2	115	108 - 121	15	109.5	2.1	1.9	110	104 - 116
All Chemistry Instruments	17	114.1	1.6	1.4	114	108 - 120	17	109.5	2.0	1.8	110	104 - 116
ISE Diluted												
Beckman AU systems	29	108.9	1.0	0.9	109	103 - 115	29	104.3	0.8	0.7	104	99 - 110
Roche Integra	13	114.1	2.7	2.4	115	108 - 120	13	108.5	2.4	2.2	109	103 - 114
Siemens Dimension QuickLyte - Xpand/EXL	19	114.8	0.9	0.8	115	109 - 121	19	108.4	0.9	0.8	108	102 - 114
All Chemistry Instruments	84	111.8	3.3	3.0	111	106 - 118	84	106.4	2.7	2.5	106	101 - 112
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	19	114.2	1.5	1.4	114	108 - 120	19	106.8	1.3	1.3	107	101 - 113
Horiba ABX Pentra 400 / C400	14	112.5	4.2	3.7	113	106 - 119	13	105.9	3.6	3.4	107	100 - 112
All Chemistry Instruments	38	113.4	2.6	2.3	114	107 - 120	36	106.7	1.8	1.6	107	101 - 113
VITROS												
VITROS 250,350,400 500,700,750,950	15	109.9	1.6	1.5	110	104 - 116	15	105.3	1.4	1.4	105	100 - 111
All Chemistry Instruments	22	109.8	1.6	1.5	110	104 - 116	22	105.0	1.6	1.5	105	99 - 111
	Specimen CH-13						Specimen CH-14					
All Method	149	94.9	2.1	2.2	95	90 - 100	148	100.4	2.3	2.3	100	95 - 106
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	100	95 - 106	5	-	-	-	106	100 - 112
All Chemistry Instruments	6	-	-	-	101	95 - 106	6	-	-	-	107	100 - 112
ISE Diluted												
Beckman AU systems	29	94.5	0.7	0.8	95	89 - 100	29	99.3	0.9	0.9	99	94 - 105
Roche Integra	13	96.8	2.2	2.3	97	92 - 102	13	102.5	2.1	2.1	102	97 - 108
Siemens Dimension QuickLyte - Xpand/EXL	18	94.8	0.8	0.8	95	90 - 100	18	101.3	0.8	0.8	101	96 - 107
All Chemistry Instruments	81	94.8	1.5	1.6	95	90 - 100	83	100.4	1.9	1.9	100	95 - 106
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	18	94.0	1.8	1.9	94	89 - 99	18	100.1	1.7	1.7	101	95 - 106
Horiba ABX Pentra 400 / C400	15	93.7	3.0	3.2	93	88 - 99	14	98.9	3.8	3.8	99	93 - 104
All Chemistry Instruments	39	94.1	2.3	2.5	94	89 - 99	38	99.6	2.6	2.6	100	94 - 105
VITROS												
VITROS 250,350,400 500,700,750,950	15	95.6	1.4	1.4	95	90 - 101	15	100.4	1.5	1.5	100	95 - 106
All Chemistry Instruments	22	95.4	1.5	1.6	95	90 - 101	22	100.1	1.7	1.7	100	95 - 106

Chloride (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	148	109.0	2.7	2.5	109	103 - 115
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	110	104 - 116
All Chemistry Instruments	6	-	-	-	111	104 - 117
ISE Diluted						
Beckman AU systems	29	106.9	0.7	0.7	107	101 - 113
Roche Integra	13	112.3	2.9	2.6	112	106 - 118
Siemens Dimension QuickLyte - Xpand/EXL	19	111.5	1.0	0.9	112	105 - 118
All Chemistry Instruments	84	109.3	3.1	2.9	109	103 - 115
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	19	110.5	1.7	1.5	111	104 - 116
Horiba ABX Pentra 400 / C400	13	108.8	4.0	3.7	109	103 - 115
All Chemistry Instruments	38	109.5	2.9	2.6	110	104 - 115
VITROS						
VITROS 250,350,400 500,700,750,950	15	108.1	1.4	1.3	108	102 - 114
All Chemistry Instruments	22	107.8	1.5	1.4	108	102 - 114

CO₂ (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	157	30.0	2.5	8.4	30	23 - 36	157	25.8	2.3	8.8	26	20 - 31
Abaxis Piccolo												
Abaxis Piccolo - waived	14	29.9	1.1	3.6	30	23 - 36	14	25.9	0.9	3.7	26	20 - 32
All Chemistry Instruments	16	29.8	1.0	3.5	30	23 - 36	16	25.9	0.9	3.4	26	20 - 32
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	13	27.8	2.4	8.5	28	22 - 34	13	24.6	2.4	9.6	25	19 - 30
Beckman AU systems	25	31.6	1.9	6.1	32	25 - 38	25	26.8	1.9	7.1	27	21 - 33
Horiba ABX Pentra 400 / C400	14	28.9	1.7	5.9	29	23 - 35	14	24.4	2.1	8.5	24	19 - 30
Roche Integra	12	29.0	2.0	7.1	30	23 - 35	12	24.6	1.8	7.5	25	19 - 30
Siemens Dimension	18	32.3	2.4	7.4	32	25 - 39	18	27.9	1.8	6.5	28	22 - 34
All Chemistry Instruments	97	30.3	2.6	8.5	31	24 - 37	97	26.1	2.4	9.0	27	20 - 32
ISE Diluted												
All Chemistry Instruments	10	28.3	2.8	10.0	29	22 - 34	10	24.6	2.2	9.0	24	19 - 30
ISE Undiluted												
All Chemistry Instruments	12	29.7	4.1	13.7	30	23 - 36	12	25.4	3.8	15.1	26	20 - 31
VITROS												
VITROS 250,350,400 500,700,750,950	15	29.8	1.4	4.6	30	23 - 36	15	25.5	1.2	4.7	26	20 - 31
All Chemistry Instruments	22	29.5	1.3	4.3	30	23 - 36	22	25.3	1.2	4.6	25	20 - 31
	Specimen CH-13						Specimen CH-14					
All Method	148	17.1	2.0	11.8	17	13 - 21	147	21.0	2.2	10.3	21	16 - 26
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	16	12 - 20	5	-	-	-	21	16 - 25
All Chemistry Instruments	6	-	-	-	16	12 - 20	6	-	-	-	21	16 - 25
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	13	16.1	1.8	10.9	16	12 - 20	13	20.5	2.6	12.9	21	16 - 25
Beckman AU systems	25	17.7	1.4	8.1	18	14 - 22	24	22.0	1.5	6.8	22	17 - 27
Horiba ABX Pentra 400 / C400	14	16.6	1.8	10.8	17	13 - 20	14	20.2	1.7	8.5	21	16 - 25
Roche Integra	12	16.8	1.4	8.1	17	13 - 21	12	19.8	1.3	6.7	20	15 - 24
Siemens Dimension	18	19.3	1.7	8.9	19	15 - 24	17	23.6	0.9	3.6	24	18 - 29
All Chemistry Instruments	98	17.5	2.0	11.4	18	14 - 21	98	21.4	2.3	10.6	22	17 - 26
ISE Diluted												
All Chemistry Instruments	10	16.4	1.6	9.6	17	13 - 20	10	20.3	2.3	11.1	21	16 - 25
ISE Undiluted												
All Chemistry Instruments	12	17.3	2.9	16.6	19	13 - 21	12	20.4	3.1	15.4	21	16 - 25
VITROS												
VITROS 250,350,400 500,700,750,950	15	16.1	1.5	9.0	16	12 - 20	15	19.9	1.4	7.0	20	15 - 24
All Chemistry Instruments	22	16.0	1.3	8.3	16	12 - 20	22	19.9	1.2	6.0	20	15 - 24

CO₂ (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	146	27.3	2.8	10.3	28	21 - 33
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	27	22 - 34
All Chemistry Instruments	6	-	-	-	28	22 - 34
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	13	25.5	3.8	15.0	26	20 - 31
Beckman AU systems	25	28.6	2.2	7.6	29	22 - 35
Horiba ABX Pentra 400 / C400	14	25.8	2.3	8.9	26	20 - 31
Roche Integra	12	24.8	2.1	8.6	25	19 - 30
Siemens Dimension	17	30.2	1.3	4.1	30	24 - 37
All Chemistry Instruments	96	27.6	2.8	10.3	28	22 - 34
ISE Diluted						
All Chemistry Instruments	10	26.7	2.7	10.0	27	21 - 33
ISE Undiluted						
All Chemistry Instruments	12	27.0	4.2	15.6	29	21 - 33
VITROS						
VITROS 250,350,400 500,700,750,950	15	25.9	2.1	8.2	26	20 - 32
All Chemistry Instruments	22	26.2	1.9	7.3	27	20 - 32

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	164	6.62	0.17	2.6	6.6	6.1 - 7.2	165	5.65	0.12	2.1	5.7	5.1 - 6.2
Abaxis Piccolo												
Abaxis Piccolo - waived	15	6.58	0.27	4.1	6.5	6.0 - 7.1	15	5.59	0.20	3.5	5.6	5.0 - 6.1
All Chemistry Instruments	17	6.58	0.26	3.9	6.5	6.0 - 7.1	17	5.60	0.20	3.6	5.6	5.1 - 6.1
ISE Diluted												
Beckman AU systems	28	6.50	0.08	1.2	6.5	6.0 - 7.0	29	5.60	0.07	1.2	5.6	5.1 - 6.2
Roche Integra	12	6.59	0.05	0.8	6.6	6.0 - 7.1	13	5.62	0.06	1.1	5.6	5.1 - 6.2
Siemens Dimension QuickLyte - Xpand/EXL	20	6.70	0.07	1.1	6.7	6.2 - 7.2	20	5.73	0.04	0.8	5.7	5.2 - 6.3
All Chemistry Instruments	85	6.60	0.12	1.8	6.6	6.0 - 7.1	86	5.65	0.09	1.5	5.7	5.1 - 6.2
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	19	6.87	0.12	1.7	6.9	6.3 - 7.4	19	5.79	0.09	1.6	5.8	5.2 - 6.3
Horiba ABX Pentra 400 / C400	16	6.49	0.15	2.3	6.5	5.9 - 7.0	16	5.54	0.09	1.6	5.6	5.0 - 6.1
All Chemistry Instruments	40	6.67	0.24	3.6	6.7	6.1 - 7.2	41	5.66	0.17	2.9	5.6	5.1 - 6.2
VITROS												
VITROS 250,350,400 500,700,750,950	15	6.65	0.10	1.5	6.7	6.1 - 7.2	15	5.67	0.06	1.1	5.7	5.1 - 6.2
All Chemistry Instruments	22	6.65	0.09	1.4	6.7	6.1 - 7.2	22	5.67	0.06	1.0	5.7	5.1 - 6.2
	Specimen CH-13						Specimen CH-14					
All Method	151	3.73	0.06	1.7	3.7	3.2 - 4.3	150	4.68	0.08	1.7	4.7	4.1 - 5.2
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	3.6	3.1 - 4.2	5	-	-	-	4.6	4.1 - 5.2
All Chemistry Instruments	6	-	-	-	3.8	3.2 - 4.2	6	-	-	-	4.8	4.2 - 5.3
ISE Diluted												
Beckman AU systems	29	3.72	0.05	1.3	3.7	3.2 - 4.3	29	4.63	0.05	1.2	4.6	4.1 - 5.2
Roche Integra	13	3.75	0.05	1.4	3.7	3.2 - 4.3	13	4.69	0.05	1.1	4.7	4.1 - 5.2
Siemens Dimension QuickLyte - Xpand/EXL	20	3.76	0.05	1.3	3.8	3.2 - 4.3	20	4.73	0.05	1.0	4.7	4.2 - 5.3
All Chemistry Instruments	86	3.74	0.06	1.6	3.7	3.2 - 4.3	85	4.68	0.07	1.5	4.7	4.1 - 5.2
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	19	3.71	0.05	1.4	3.7	3.2 - 4.3	19	4.72	0.06	1.3	4.7	4.2 - 5.3
Horiba ABX Pentra 400 / C400	17	3.72	0.06	1.7	3.7	3.2 - 4.3	17	4.64	0.09	2.0	4.6	4.1 - 5.2
All Chemistry Instruments	41	3.70	0.07	2.0	3.7	3.1 - 4.2	42	4.66	0.12	2.5	4.7	4.1 - 5.2
VITROS												
VITROS 250,350,400 500,700,750,950	15	3.75	0.05	1.4	3.8	3.2 - 4.3	15	4.71	0.06	1.4	4.7	4.2 - 5.3
All Chemistry Instruments	22	3.74	0.06	1.6	3.7	3.2 - 4.3	22	4.70	0.06	1.3	4.7	4.2 - 5.2

Potassium (mmol/L)

Specimen CH-15

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	155	6.13	0.14	2.3	6.1	5.6 - 6.7
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	6.0	5.5 - 6.6
All Chemistry Instruments	6	-	-	-	6.1	5.5 - 6.6
ISE Diluted						
Beckman AU systems	29	6.06	0.07	1.2	6.0	5.5 - 6.6
Roche Integra	13	6.11	0.06	1.0	6.1	5.6 - 6.7
Siemens Dimension QuickLyte - Xpand/EXL	19	6.23	0.06	0.9	6.2	5.7 - 6.8
All Chemistry Instruments	84	6.13	0.10	1.6	6.1	5.6 - 6.7
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	19	6.31	0.11	1.8	6.3	5.8 - 6.9
Horiba ABX Pentra 400	17	5.99	0.12	2.0	6.0	5.4 - 6.5
All Chemistry Instruments	42	6.13	0.20	3.3	6.1	5.6 - 6.7
VITROS						
VITROS 250,350,400 500,700,750,950	15	6.19	0.07	1.1	6.2	5.6 - 6.7
All Chemistry Instruments	22	6.17	0.08	1.3	6.2	5.6 - 6.7

Sodium (mmol/L)

Technical tip: Incomplete or incorrect method reporting is a common cause of proficiency test failure, especially when it comes to the electrolytes. If your test method is "ISE Direct", it should be reported as ISE Undiluted on your MLE test result form (TRF). If your test method is "ISE Indirect", it should be reported as ISE Diluted on your MLE TRF. Be sure to check your package insert for the correct test method, or contact the manufacturer of the instrument or reagent.

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	155.5	3.1	2.0	155	151 - 160	166	146.4	2.6	1.8	146	142 - 151
Abaxis Piccolo												
Abaxis Piccolo - waived	15	160.7	2.2	1.4	161	156 - 165	15	150.9	1.5	1.0	151	146 - 155
All Chemistry Instruments	17	160.5	2.1	1.3	160	156 - 165	17	150.8	1.8	1.2	151	146 - 155
ISE Diluted												
Beckman AU systems	28	152.8	1.4	0.9	153	148 - 157	29	145.1	1.7	1.2	145	141 - 150
Roche Integra	13	152.6	1.7	1.1	153	148 - 157	13	144.4	1.7	1.1	145	140 - 149
Siemens Dimension QuickLyte - Xpand/EXL	20	155.7	1.8	1.1	156	151 - 160	20	147.5	1.3	0.9	148	143 - 152
All Chemistry Instruments	85	153.8	2.1	1.4	154	149 - 158	86	145.7	2.0	1.4	146	141 - 150
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	20	157.1	2.2	1.4	157	153 - 162	20	145.6	1.4	0.9	145	141 - 150
Horiba ABX Pentra 400 / C400	16	155.5	2.3	1.5	155	151 - 160	16	146.3	3.3	2.3	145	142 - 151
All Chemistry Instruments	42	156.0	2.5	1.6	156	152 - 161	41	145.5	1.9	1.3	145	141 - 150
VITROS												
VITROS 250,350,400 500,700,750,950	15	157.8	2.2	1.4	157	153 - 162	15	147.8	2.2	1.5	148	143 - 152
All Chemistry Instruments	22	157.8	2.0	1.3	158	153 - 162	22	147.9	2.0	1.3	148	143 - 152
	Specimen CH-13						Specimen CH-14					
All Method	155	128.7	2.1	1.7	129	124 - 133	154	137.2	2.1	1.5	137	133 - 142
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	131	127 - 135	5	-	-	-	142	137 - 146
All Chemistry Instruments	6	-	-	-	131	126 - 135	6	-	-	-	142	137 - 146
ISE Diluted												
Beckman AU systems	29	128.5	1.1	0.9	128	124 - 133	29	136.6	1.1	0.8	137	132 - 141
Roche Integra	13	128.4	1.5	1.2	128	124 - 133	13	135.9	1.4	1.0	136	131 - 140
Siemens Dimension QuickLyte - Xpand/EXL	20	131.6	1.1	0.9	132	127 - 136	20	139.4	1.1	0.8	139	135 - 144
All Chemistry Instruments	86	129.3	2.0	1.5	129	125 - 134	85	137.4	1.7	1.3	137	133 - 142
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	20	125.6	0.8	0.7	126	121 - 130	20	134.8	1.3	1.0	135	130 - 139
Horiba ABX Pentra 400	15	127.5	1.1	0.8	127	123 - 132	16	136.0	2.0	1.5	136	132 - 140
All Chemistry Instruments	41	126.5	1.6	1.2	126	122 - 131	42	135.4	1.9	1.4	135	131 - 140
VITROS												
VITROS 250,350,400 500,700,750,950	15	129.3	1.4	1.1	129	125 - 134	15	138.3	1.7	1.2	138	134 - 143
All Chemistry Instruments	22	129.3	1.3	1.0	129	125 - 134	22	138.2	1.5	1.1	138	134 - 143

Sodium (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	154	150.5	2.2	1.4	150	146 - 155
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	156	151 - 160
All Chemistry Instruments	6	-	-	-	156	151 - 159
ISE Diluted						
Beckman AU systems	28	149.2	1.1	0.7	149	145 - 154
Roche Integra	13	148.4	1.6	1.1	148	144 - 153
Siemens Dimension QuickLyte - Xpand/EXL	20	151.3	1.4	0.9	151	147 - 156
All Chemistry Instruments	85	149.8	1.8	1.2	150	145 - 154
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	20	150.4	1.5	1.0	151	146 - 155
Horiba ABX Pentra 400	16	150.4	2.2	1.5	150	146 - 155
All Chemistry Instruments	41	150.4	1.5	1.0	150	146 - 155
VITROS						
VITROS 250,350,400 500,700,750,950	15	152.9	2.0	1.3	153	148 - 157
All Chemistry Instruments	22	152.9	1.8	1.2	153	148 - 157

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	287.0	65.7	22.9	317	155 - 419	12	238.6	55.9	23.4	263	126 - 351
Other Calculation Specified												
Beckman AU systems	5	333.0	5.7	1.7	333	266 - 400	5	279.2	13.3	4.8	272	223 - 336
All Chemistry Instruments	7	325.0	14.5	4.5	329	260 - 390	7	272.1	16.2	6.0	270	217 - 327
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	127.7	33.9	26.5	143	59 - 196	12	173.4	47.2	27.2	198	79 - 268
Other Calculation Specified												
Beckman AU systems	5	137.6	35.0	25.5	152	67 - 208	5	185.6	51.3	27.6	209	83 - 289
All Chemistry Instruments	7	139.0	28.7	20.7	152	81 - 197	7	189.0	42.3	22.4	204	104 - 274
<u>Method/Instrument</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	262.7	61.1	23.3	291	140 - 385						
Other Calculation Specified												
Beckman AU systems	5	301.6	7.7	2.6	297	241 - 362						
All Chemistry Instruments	7	297.1	9.9	3.3	296	237 - 357						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	259.6	32.7	12.6	250	194 - 325	19	224.8	41.8	18.6	204	141 - 309
Siemens Healthcare												
Siemens Dimension	9	245.4	7.7	3.1	245	196 - 295	9	198.4	6.9	3.5	198	158 - 239
VITROS												
All Chemistry Instruments	6	311.7	95.1	30.5	295	121 - 502	6	265.7	70.1	26.4	257	125 - 406
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	132.5	34.6	26.1	136	63 - 202	19	178.5	33.8	18.9	177	110 - 247
Siemens Healthcare												
Siemens Dimension	9	101.7	7.3	7.2	104	81 - 123	9	149.7	6.6	4.4	150	119 - 180
VITROS												
All Chemistry Instruments	6	146.7	10.8	7.4	145	117 - 177	6	198.0	24.5	12.4	197	148 - 248
<u>Method/Instrument</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	19	245.2	38.5	15.7	230	168 - 323						
Siemens Healthcare												
Siemens Dimension	9	223.2	6.1	2.7	223	178 - 268						
VITROS												
All Chemistry Instruments	6	289.2	77.0	26.6	289	135 - 444						

UIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	121.6	10.3	8.5	119	97 - 146	21	105.7	9.0	8.5	106	84 - 127
Beckman AU Beckman AU systems	13	126.9	7.8	6.2	129	101 - 153	13	111.0	5.6	5.1	110	88 - 134
	Specimen CH-13						Specimen CH-14					
All Method	21	76.2	6.2	8.1	75	60 - 92	21	91.1	7.4	8.1	90	72 - 110
Beckman AU Beckman AU systems	13	79.6	5.1	6.5	78	63 - 96	13	94.2	6.5	6.9	93	75 - 114
	Specimen CH-15											
All Method	21	115.1	8.9	7.7	116	92 - 139						
Beckman AU Beckman AU systems	13	119.1	6.2	5.2	119	95 - 143						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	163	210.9	15.7	7.5	210	168 - 254	163	163.9	12.6	7.7	164	131 - 197
All Alfa Wassermann Reagents	19	209.1	4.2	2.0	209	167 - 251	19	163.6	3.8	2.3	164	130 - 197
All Horiba Pentra Reagents	18	228.2	6.3	2.8	228	182 - 274	18	178.2	4.4	2.5	178	142 - 214
All Roche Reagents	21	213.9	4.9	2.3	214	171 - 257	21	166.0	3.5	2.1	166	132 - 200
All Siemens Healthcare	5	234.0	10.6	4.5	229	187 - 281	5	184.0	7.6	4.1	184	147 - 221
Abaxis Piccolo												
Abaxis Piccolo - waived	15	193.3	5.0	2.6	193	154 - 232	15	149.9	3.3	2.2	149	119 - 180
All Chemistry Instruments	17	193.5	4.8	2.5	193	154 - 233	17	150.0	3.2	2.1	149	120 - 180
Abbott Architect												
Abbott Architect	5	228.8	2.2	0.9	229	183 - 275	5	177.4	2.3	1.3	177	141 - 213
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	209.1	4.2	2.0	209	167 - 251	19	163.6	3.8	2.3	164	130 - 197
Beckman AU												
Beckman AU systems	29	196.9	5.9	3.0	196	157 - 237	29	152.6	5.2	3.4	152	122 - 184
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	228.2	6.3	2.8	228	182 - 274	18	178.2	4.4	2.5	178	142 - 214
Roche cobas c 501												
Roche cobas 6000 / c 501	7	217.4	4.4	2.0	217	173 - 261	7	168.6	3.4	2.0	168	134 - 203
Roche Integra												
Roche Integra	13	211.5	3.9	1.9	212	169 - 254	13	164.4	2.8	1.7	164	131 - 198
Siemens Healthcare ALTi												
Siemens Dimension	20	234.4	4.5	1.9	236	187 - 282	20	182.7	3.4	1.8	183	146 - 220
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	14	198.6	6.6	3.3	197	158 - 239	14	153.3	5.0	3.3	153	122 - 184
All Chemistry Instruments	18	199.3	6.5	3.3	198	159 - 240	18	154.3	5.2	3.4	154	123 - 186

ALT (SGPT) (IU/L)

<u><i>Instrument/Reagent</i></u>	Specimen CH-13						Specimen CH-14					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	151	68.1	5.7	8.4	68	54 - 82	152	116.1	8.7	7.5	116	92 - 140
All Alfa Wassermann Reagents	20	67.4	3.4	5.1	68	53 - 81	20	114.8	3.2	2.7	115	91 - 138
All Horiba Pentra Reagents	18	72.4	2.1	2.9	72	57 - 87	18	124.6	3.2	2.6	124	99 - 150
All Roche Reagents	21	68.0	1.4	2.1	68	54 - 82	21	116.8	2.4	2.1	117	93 - 141
All Siemens Healthcare	5	76.8	2.9	3.7	77	61 - 93	5	131.0	5.0	3.8	130	104 - 158
Abaxis Piccolo												
Abaxis Piccolo - waived	5	62.2	1.5	2.4	62	49 - 75	5	105.4	1.5	1.4	105	84 - 127
All Chemistry Instruments	6	62.8	2.0	3.2	63	50 - 76	6	106.0	2.0	1.9	106	84 - 128
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	72.8	2.2	3.0	72	58 - 88	5	124.4	1.9	1.6	123	99 - 150
Beckman AU												
Beckman AU systems	20	67.4	3.4	5.1	68	53 - 81	20	114.8	3.2	2.7	115	91 - 138
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	28	62.6	2.1	3.4	62	50 - 76	29	107.6	4.0	3.7	106	86 - 130
Roche cobas c 501												
Roche cobas 6000 / c 501	18	72.4	2.1	2.9	72	57 - 87	18	124.6	3.2	2.6	124	99 - 150
Roche Integra												
Roche Integra	7	69.0	1.6	2.4	69	55 - 83	7	118.0	2.6	2.2	117	94 - 142
Siemens Healthcare ALTi												
Siemens Dimension	13	67.6	1.0	1.5	68	54 - 82	13	116.1	2.2	1.9	117	92 - 140
VITROS												
All Chemistry Instruments	20	77.1	3.0	3.9	77	61 - 93	20	129.8	2.8	2.1	130	103 - 156
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	14	63.0	2.6	4.1	63	50 - 76	14	108.2	3.2	3.0	108	86 - 130
All Chemistry Instruments	18	63.0	2.4	3.8	63	50 - 76	18	108.9	3.3	3.0	108	87 - 131

ALT (SGPT) (IU/L)**Specimen CH-15**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	152	188.3	13.7	7.3	188	150 - 226
All Alfa Wassermann Reagents	20	185.6	3.9	2.1	186	148 - 223
All Horiba Pentra Reagents	18	203.4	4.9	2.4	203	162 - 245
All Roche Reagents	21	189.9	3.9	2.1	189	151 - 228
All Siemens Healthcare	5	210.2	9.3	4.4	204	168 - 253
Abaxis Piccolo						
Abaxis Piccolo - waived	5	170.4	1.7	1.0	170	136 - 205
All Chemistry Instruments	6	170.5	1.5	0.9	171	136 - 205
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	5	202.8	1.8	0.9	204	162 - 244
Beckman AU						
Beckman AU systems	20	185.6	3.9	2.1	186	148 - 223
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	29	174.4	5.2	3.0	173	139 - 210
Roche cobas c 501						
Roche cobas 6000 / c 501	18	203.4	4.9	2.4	203	162 - 245
Roche Integra						
Roche Integra	7	192.6	4.3	2.2	193	154 - 232
Siemens Healthcare ALTi						
Siemens Dimension	13	188.2	2.9	1.6	188	150 - 226
VITROS						
All Chemistry Instruments	20	207.8	3.8	1.8	207	166 - 250
VITROS ALTV						
VITROS 250,350,400 500,700,750,950	14	176.1	5.8	3.3	176	140 - 212
All Chemistry Instruments	18	176.7	5.5	3.1	177	141 - 213

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	263.9	46.9	17.8	276	184 - 344	166	213.9	31.7	14.8	221	149 - 279
All Alfa Wassermann Reagents	20	273.2	12.1	4.4	273	191 - 356	20	217.5	12.2	5.6	221	152 - 283
All Horiba Pentra Reagents	18	306.3	12.2	4.0	306	214 - 399	18	245.2	10.7	4.4	245	171 - 319
All Roche Reagents	21	301.0	9.0	3.0	301	210 - 392	21	238.9	6.7	2.8	238	167 - 311
Abaxis Piccolo												
Abaxis Piccolo - waived	15	212.7	9.3	4.4	213	148 - 277	15	176.4	6.8	3.8	176	123 - 230
All Chemistry Instruments	17	211.4	9.4	4.5	211	147 - 275	17	176.0	6.5	3.7	176	123 - 229
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	273.2	12.1	4.4	273	191 - 356	20	217.5	12.2	5.6	221	152 - 283
Beckman AU												
Beckman AU systems	28	259.8	20.1	7.7	261	181 - 338	28	206.5	15.1	7.3	208	144 - 269
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	306.3	12.2	4.0	306	214 - 399	18	245.2	10.7	4.4	245	171 - 319
Roche Integra												
Roche Integra	13	301.0	10.4	3.5	301	210 - 392	13	239.2	8.2	3.4	238	167 - 311
Siemens Healthcare ALPi												
Siemens Dimension	18	308.7	8.8	2.9	307	216 - 402	17	244.3	5.7	2.3	245	171 - 318
VITROS												
VITROS 250,350,400 500,700,750,950	15	176.7	12.2	6.9	176	123 - 230	15	162.9	10.5	6.4	161	114 - 212
All Chemistry Instruments	21	177.7	11.4	6.4	175	124 - 232	21	164.1	10.2	6.2	162	114 - 214

Alkaline Phosphatase (IU/L)

<u><i>Instrument/Reagent</i></u>	Specimen CH-13						Specimen CH-14					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	155	102.5	9.8	9.5	103	71 - 134	154	162.0	18.8	11.6	165	113 - 211
All Alfa Wassermann Reagents	20	100.6	4.8	4.7	102	70 - 131	19	161.6	6.9	4.2	162	113 - 211
All Horiba Pentra Reagents	18	113.0	6.1	5.4	113	79 - 147	18	180.7	7.1	3.9	179	126 - 235
All Roche Reagents	21	108.8	3.5	3.2	108	76 - 142	21	175.6	5.5	3.1	174	122 - 229
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	94	71 - 134	5	-	-	-	136	113 - 211
All Chemistry Instruments	6	-	-	-	96	67 - 126	6	-	-	-	137	95 - 178
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	100.6	4.8	4.7	102	70 - 131	19	161.6	6.9	4.2	162	113 - 211
Beckman AU												
Beckman AU systems	28	93.7	6.7	7.2	94	65 - 122	28	151.3	11.0	7.3	152	105 - 197
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	113.0	6.1	5.4	113	79 - 147	18	180.7	7.1	3.9	179	126 - 235
Roche Integra												
Roche Integra	13	108.6	4.4	4.0	107	76 - 142	13	175.8	6.9	3.9	174	123 - 229
Siemens Healthcare ALPi												
Siemens Dimension	18	110.7	4.3	3.9	111	77 - 144	18	179.9	6.2	3.5	179	125 - 234
VITROS												
VITROS 250,350,400 500,700,750,950	15	95.6	5.7	6.0	95	66 - 125	15	138.2	9.8	7.1	138	96 - 180
All Chemistry Instruments	21	95.8	5.4	5.6	95	67 - 125	20	136.7	6.5	4.8	137	95 - 178

Alkaline Phosphatase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	155	241.9	37.6	15.5	251	169 - 315
All Alfa Wassermann Reagents	20	246.1	9.2	3.7	247	172 - 320
All Horiba Pentra Reagents	18	273.2	11.8	4.3	273	191 - 356
All Roche Reagents	21	267.7	8.4	3.1	266	187 - 348
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	193	169 - 315
All Chemistry Instruments	6	-	-	-	194	135 - 252
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	246.1	9.2	3.7	247	172 - 320
Beckman AU						
Beckman AU systems	28	232.8	16.6	7.1	233	162 - 303
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	273.2	11.8	4.3	273	191 - 356
Roche Integra						
Roche Integra	13	267.3	10.1	3.8	265	187 - 348
Siemens Healthcare ALPi						
Siemens Dimension	18	278.2	9.2	3.3	278	194 - 362
VITROS						
VITROS 250,350,400 500,700,750,950	15	173.1	13.2	7.6	170	121 - 225
All Chemistry Instruments	21	173.0	11.8	6.8	170	121 - 225

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	257.0	30.3	11.8	255	205 - 309	143	220.3	23.2	10.5	219	176 - 265
All Alfa Wassermann Reagents	20	239.9	8.4	3.5	243	191 - 288	20	209.7	6.4	3.1	210	167 - 252
All Horiba Pentra Reagents	18	272.2	19.2	7.1	273	217 - 327	18	236.0	15.4	6.5	239	188 - 284
All Roche Reagents	21	261.9	9.1	3.5	263	209 - 315	21	226.0	8.1	3.6	229	180 - 272
Abaxis Piccolo												
Abaxis Piccolo - waived	15	243.1	8.0	3.3	245	194 - 292	15	209.7	6.7	3.2	208	167 - 252
All Chemistry Instruments	17	243.3	7.5	3.1	245	194 - 292	17	209.8	6.3	3.0	209	167 - 252
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	239.9	8.4	3.5	243	191 - 288	20	209.7	6.4	3.1	210	167 - 252
Beckman AU												
Beckman AU systems	29	223.4	9.2	4.1	222	178 - 269	29	192.2	8.5	4.4	191	153 - 231
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	272.2	19.2	7.1	273	217 - 327	18	236.0	15.4	6.5	239	188 - 284
Roche Integra												
Roche Integra	13	263.5	9.6	3.6	268	210 - 317	13	227.3	8.4	3.7	231	181 - 273
Siemens Healthcare												
Siemens Dimension	24	268.7	6.6	2.5	269	214 - 323	24	230.9	6.2	2.7	231	184 - 278
VITROS												
VITROS 250,350,400 500,700,750,950	15	311.3	10.9	3.5	312	249 - 374	15	257.3	10.6	4.1	257	205 - 309
All Chemistry Instruments	21	313.3	11.6	3.7	312	250 - 376	21	259.0	10.4	4.0	258	207 - 311

AST (SGOT) (IU/L)

<i>Instrument/Reagent</i>	Specimen CH-13						Specimen CH-14					
	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>	<i>Range</i>	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>	<i>Range</i>
All Method	132	145.7	12.6	8.6	148	116 - 175	132	182.6	17.7	9.7	185	146 - 220
All Alfa Wassermann Reagents	20	141.2	4.6	3.2	142	112 - 170	20	174.3	5.3	3.0	174	139 - 210
All Horiba Pentra Reagents	18	158.0	9.9	6.3	161	126 - 190	18	196.3	13.5	6.9	199	157 - 236
All Roche Reagents	21	150.7	5.3	3.5	152	120 - 181	21	187.7	6.6	3.5	189	150 - 226
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	136	116 - 175	5	-	-	-	170	146 - 220
All Chemistry Instruments	6	-	-	-	139	111 - 167	6	-	-	-	172	137 - 207
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	141.2	4.6	3.2	142	112 - 170	20	174.3	5.3	3.0	174	139 - 210
Beckman AU												
Beckman AU systems	29	128.5	4.8	3.7	129	102 - 155	29	159.8	6.3	3.9	159	127 - 192
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	158.0	9.9	6.3	161	126 - 190	18	196.3	13.5	6.9	199	157 - 236
Roche Integra												
Roche Integra	13	151.9	5.4	3.5	153	121 - 183	13	188.6	6.4	3.4	190	150 - 227
Siemens Healthcare												
Siemens Dimension	24	152.0	4.9	3.2	152	121 - 183	24	190.5	5.6	2.9	190	152 - 229
VITROS												
VITROS 250,350,400 500,700,750,950	15	156.8	5.7	3.6	156	125 - 189	15	204.9	6.6	3.2	203	163 - 246
All Chemistry Instruments	21	157.9	5.6	3.5	158	126 - 190	21	206.3	6.8	3.3	205	165 - 248

AST (SGOT) (IU/L)**Specimen CH-15**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	132	239.5	28.0	11.7	240	191 - 288
All Alfa Wassermann Reagents	20	225.2	7.2	3.2	224	180 - 271
All Horiba Pentra Reagents	18	255.5	16.6	6.5	258	204 - 307
All Roche Reagents	21	242.4	8.6	3.6	246	193 - 291
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	216	191 - 288
All Chemistry Instruments	6	-	-	-	220	177 - 266
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	225.2	7.2	3.2	224	180 - 271
Beckman AU						
Beckman AU systems	29	206.8	8.3	4.0	206	165 - 249
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	255.5	16.6	6.5	258	204 - 307
Roche Integra						
Roche Integra	13	244.2	8.9	3.6	248	195 - 293
Siemens Healthcare						
Siemens Dimension	24	250.2	6.7	2.7	249	200 - 301
VITROS						
VITROS 250,350,400 500,700,750,950	15	286.5	11.5	4.0	287	229 - 344
All Chemistry Instruments	21	286.9	10.6	3.7	287	229 - 345

Creatine Kinase (IU/L) cont'd**Specimen CH-15**

All Method	58	218.0	18.3	8.4	221	152 - 284
All Alfa Wassermann Reagents	6	217.5	11.8	5.4	221	152 - 283
All Roche Reagents	8	226.4	9.0	4.0	226	158 - 295
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	6	217.5	11.8	5.4	221	152 - 283
Beckman AU						
Beckman AU systems	15	205.2	20.1	9.8	211	143 - 267
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	5	230.2	4.0	1.7	231	161 - 300
Roche Integra						
Roche Integra	5	227.4	11.7	5.1	228	159 - 296
Siemens Healthcare CKI						
Siemens Dimension	14	230.9	9.0	3.9	233	161 - 301
VITROS						
All Chemistry Instruments	5	182.4	5.3	2.9	184	127 - 238

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	247.48	19.02	7.7	252.2	190.4 - 304.6	6	187.63	17.50	9.3	191.2	135.1 - 240.2
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	65.50	4.71	7.2	66.2	51.3 - 79.7	6	127.63	10.92	8.6	128.9	94.8 - 160.4
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	219.23	15.11	6.9	219.0	173.9 - 264.6						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	28.08	3.48	12.4	28.5	21.0 - 35.1	15	23.14	3.05	13.2	23.3	17.3 - 29.0
Beckman ACCESS / 2 / Dxl	7	30.20	2.69	8.9	29.3	22.6 - 37.8	7	24.47	2.59	10.6	23.4	18.3 - 30.6
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	10.72	1.49	13.9	10.8	8.0 - 13.4	15	16.68	1.74	10.4	17.0	12.5 - 20.9
Beckman ACCESS / 2 / Dxl	7	11.49	1.40	12.2	11.1	8.6 - 14.4	7	17.54	1.00	5.7	17.6	13.1 - 22.0
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	25.13	2.54	10.1	25.7	18.8 - 31.5						
Beckman ACCESS / 2 / Dxl	7	26.37	1.21	4.6	25.7	19.7 - 33.0						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	45.51	4.37	9.6	44.0	32.4 - 58.7	10	46.29	4.74	10.2	46.0	32.0 - 60.6
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	50.18	6.71	13.4	51.1	30.0 - 70.4	10	47.79	4.91	10.3	47.5	33.0 - 62.6
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	46.30	5.08	11.0	45.2	31.0 - 61.6						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	1.75	0.35	20.0	2.0	0.6 - 2.9	16	1.56	0.30	19.2	1.8	0.6 - 2.5
All TOSOH Instruments	7	6.60	0.44	6.6	6.6	5.2 - 8.0	7	5.66	0.38	6.8	5.9	4.5 - 6.9
Beckman ACCESS / 2 / Dxl	9	1.90	0.23	12.3	1.8	1.1 - 2.7	9	1.66	0.21	12.9	1.6	1.0 - 2.3
TOSOH ST AIA PACK	6	6.60	0.48	7.2	6.8	5.1 - 8.1	6	5.62	0.40	7.2	5.8	4.4 - 6.9
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	1.07	0.24	22.1	1.2	0.3 - 1.8	16	1.29	0.26	19.8	1.5	0.5 - 2.1
All TOSOH Instruments	7	4.23	0.17	4.0	4.2	3.7 - 4.8	7	4.87	0.33	6.7	4.9	3.8 - 5.9
Beckman ACCESS / 2 / Dxl	9	1.10	0.15	13.6	1.1	0.6 - 1.6	9	1.34	0.17	12.9	1.3	0.8 - 1.9
TOSOH ST AIA PACK	6	4.23	0.19	4.4	4.2	3.6 - 4.8	6	4.87	0.36	7.3	4.9	3.7 - 6.0
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	1.66	0.31	18.8	1.9	0.7 - 2.6						
All TOSOH Instruments	7	6.23	0.26	4.1	6.3	5.4 - 7.0						
Beckman ACCESS / 2 / Dxl	9	1.78	0.19	10.8	1.7	1.2 - 2.4						
TOSOH ST AIA PACK	6	6.23	0.28	4.5	6.3	5.3 - 7.1						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	4.96	0.73	14.7	4.9	2.7 - 7.2	30	4.65	0.66	14.2	4.5	2.6 - 6.7
All TOSOH Instruments	5	10.48	0.56	5.4	10.5	8.7 - 12.2	5	9.02	0.35	3.9	9.2	7.9 - 10.1
Beckman ACCESS / 2 / Dxl	17	4.62	0.27	5.9	4.6	3.8 - 5.5	17	4.33	0.22	5.1	4.3	3.6 - 5.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	3.64	0.48	13.1	3.6	2.2 - 5.1	30	4.18	0.52	12.5	4.1	2.6 - 5.8
All TOSOH Instruments	5	6.08	0.16	2.7	6.0	5.5 - 6.6	5	7.64	0.34	4.4	7.7	6.6 - 8.7
Beckman ACCESS / 2 / Dxl	17	3.45	0.19	5.5	3.4	2.8 - 4.1	17	3.89	0.20	5.3	3.9	3.2 - 4.6
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	30	4.87	0.67	13.7	4.8	2.8 - 6.9						
All TOSOH Instruments	5	9.64	0.38	4.0	9.8	8.4 - 10.8						
Beckman ACCESS / 2 / Dxl	17	4.52	0.28	6.1	4.5	3.6 - 5.4						

Thyroxine (µg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	10.74	0.87	8.1	10.8	8.5 - 12.9	16	8.50	0.62	7.3	8.7	6.8 - 10.2
All TOSOH Instruments	7	10.96	0.99	9.1	10.8	8.7 - 13.2	7	8.60	0.62	7.2	8.5	6.8 - 10.4
Beckman ACCESS / 2 / Dxl	7	11.80	0.57	4.8	11.6	9.4 - 14.2	7	9.66	0.21	2.2	9.6	7.7 - 11.6
TOSOH ST AIA PACK	6	10.80	0.99	9.2	10.6	8.6 - 13.0	6	8.38	0.26	3.1	8.4	6.7 - 10.1
	Specimen CH-13						Specimen CH-14					
All Method	16	4.11	0.44	10.7	4.5	3.1 - 5.2	16	6.46	0.59	9.1	6.6	5.1 - 7.8
All TOSOH Instruments	7	4.07	0.48	11.8	4.0	3.0 - 5.1	7	6.46	0.66	10.2	6.5	5.1 - 7.8
Beckman ACCESS / 2 / Dxl	7	5.04	0.31	6.2	5.0	4.0 - 6.1	7	7.76	0.46	5.9	7.9	6.2 - 9.4
TOSOH ST AIA PACK	6	4.13	0.50	12.0	4.2	3.1 - 5.2	6	6.62	0.56	8.4	6.5	5.2 - 8.0
	Specimen CH-15											
All Method	16	9.80	0.76	7.8	10.1	7.8 - 11.8						
All TOSOH Instruments	7	9.96	0.81	8.1	9.7	7.9 - 12.0						
Beckman ACCESS / 2 / Dxl	7	11.04	0.87	7.8	11.1	8.8 - 13.3						
TOSOH ST AIA PACK	6	9.92	0.88	8.8	9.6	7.9 - 12.0						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	107	2.93	0.63	21.4	2.8	1.0 - 4.9	106	2.60	0.58	22.4	2.5	0.8 - 4.4
All TOSOH Instruments	20	3.83	0.25	6.5	3.9	3.0 - 4.6	20	3.49	0.26	7.4	3.5	2.7 - 4.3
Beckman ACCESS / 2 / Dxl	43	2.34	0.15	6.3	2.3	1.8 - 2.8	42	2.06	0.13	6.1	2.1	1.6 - 2.5
Siemens Dimension	16	3.30	0.22	6.5	3.3	2.6 - 4.0	16	2.89	0.13	4.5	2.9	2.4 - 3.3
TOSOH ST AIA PACK	15	3.82	0.28	7.3	3.9	2.9 - 4.7	15	3.49	0.29	8.4	3.5	2.6 - 4.4
	Specimen CH-13						Specimen CH-14					
All Method	106	1.62	0.35	21.3	1.5	0.5 - 2.7	105	2.15	0.47	21.9	1.9	0.7 - 3.6
All TOSOH Instruments	20	2.15	0.18	8.3	2.1	1.6 - 2.7	20	2.88	0.21	7.4	2.9	2.2 - 3.6
Beckman ACCESS / 2 / Dxl	43	1.37	0.10	7.1	1.4	1.0 - 1.7	42	1.75	0.12	6.6	1.8	1.4 - 2.1
Siemens Dimension	16	1.67	0.14	8.1	1.7	1.2 - 2.1	16	2.34	0.11	4.7	2.4	2.0 - 2.7
TOSOH ST AIA PACK	15	2.17	0.20	9.1	2.2	1.5 - 2.8	15	2.90	0.24	8.2	2.9	2.1 - 3.7
	Specimen CH-15											
All Method	106	2.77	0.61	22.1	2.6	0.9 - 4.7						
All TOSOH Instruments	20	3.66	0.29	7.9	3.7	2.7 - 4.6						
Beckman ACCESS / 2 / Dxl	43	2.21	0.15	6.8	2.2	1.7 - 2.7						
Siemens Dimension	16	3.07	0.19	6.0	3.1	2.5 - 3.7						
TOSOH ST AIA PACK	15	3.69	0.32	8.7	3.7	2.7 - 4.7						

TSH (μU/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	130	7.24	0.93	12.8	7.3	4.4 - 10.1	130	5.59	0.70	12.5	5.6	3.4 - 7.7
All Abbott Instruments	10	6.71	0.48	7.1	6.9	5.2 - 8.2	10	5.08	0.32	6.2	5.2	4.1 - 6.1
All Roche Instruments	8	6.96	0.21	3.1	6.9	6.3 - 7.7	8	5.53	0.17	3.0	5.5	5.0 - 6.1
All TOSOH Instruments	27	7.97	0.83	10.5	7.9	5.4 - 10.5	27	6.12	0.64	10.5	6.2	4.2 - 8.1
Abbott Architect	10	6.71	0.48	7.1	6.9	5.2 - 8.2	10	5.08	0.32	6.2	5.2	4.1 - 6.1
Beckman ACCESS / 2 / Dxl	48	7.29	0.62	8.4	7.3	5.4 - 9.2	48	5.58	0.38	6.9	5.6	4.4 - 6.8
Roche cobas e 411	5	6.96	0.24	3.5	6.9	6.2 - 7.7	5	5.58	0.16	2.9	5.5	5.0 - 6.1
Siemens Dimension	20	6.19	0.84	13.6	6.0	3.6 - 8.8	20	4.81	0.69	14.3	4.7	2.7 - 6.9
TOSOH AIA PACK	9	8.06	0.47	5.9	7.9	6.6 - 9.5	9	6.10	0.38	6.2	6.2	4.9 - 7.3
TOSOH ST AIA PACK	18	7.92	0.97	12.3	7.9	4.9 - 10.9	18	6.13	0.75	12.2	6.2	3.8 - 8.4
	Specimen CH-13						Specimen CH-14					
All Method	130	2.10	0.29	13.6	2.1	1.2 - 3.0	127	3.86	0.49	12.8	3.8	2.3 - 5.4
All Abbott Instruments	10	1.88	0.14	7.4	2.0	1.4 - 2.3	10	3.52	0.23	6.5	3.6	2.8 - 4.3
All Roche Instruments	8	2.21	0.08	3.8	2.2	1.9 - 2.5	8	3.93	0.15	3.8	3.9	3.4 - 4.4
All TOSOH Instruments	26	2.43	0.19	7.8	2.4	1.8 - 3.0	26	4.29	0.45	10.6	4.3	2.9 - 5.7
Abbott Architect	10	1.88	0.14	7.4	2.0	1.4 - 2.3	10	3.52	0.23	6.5	3.6	2.8 - 4.3
Beckman ACCESS / 2 / Dxl	49	2.07	0.15	7.0	2.0	1.6 - 2.6	47	3.82	0.27	7.1	3.8	3.0 - 4.7
Roche cobas e 411	5	2.24	0.05	2.4	2.2	2.0 - 2.5	5	3.98	0.16	4.1	3.9	3.4 - 4.5
Siemens Dimension	20	1.80	0.24	13.1	1.8	1.0 - 2.6	20	3.33	0.43	12.8	3.3	2.0 - 4.7
TOSOH AIA PACK	9	2.46	0.10	4.1	2.4	2.1 - 2.8	9	4.40	0.24	5.4	4.3	3.6 - 5.2
TOSOH ST AIA PACK	18	2.37	0.27	11.5	2.4	1.5 - 3.2	17	4.23	0.53	12.6	4.3	2.6 - 5.9
	Specimen CH-15											
All Method	127	6.39	0.81	12.7	6.4	3.9 - 8.9						
All Abbott Instruments	10	5.80	0.37	6.3	6.0	4.6 - 7.0						
All Roche Instruments	8	6.23	0.21	3.4	6.3	5.5 - 6.9						
All TOSOH Instruments	26	6.93	0.70	10.2	7.0	4.8 - 9.1						
Abbott Architect	10	5.80	0.37	6.3	6.0	4.6 - 7.0						
Beckman ACCESS / 2 / Dxl	48	6.44	0.55	8.5	6.4	4.7 - 8.1						
Roche cobas e 411	5	6.32	0.16	2.6	6.3	5.8 - 6.9						
Siemens Dimension	20	5.36	1.11	20.7	5.3	2.0 - 8.7						
TOSOH AIA PACK	9	7.06	0.27	3.8	7.0	6.2 - 7.9						
TOSOH ST AIA PACK	17	6.86	0.85	12.4	7.0	4.3 - 9.5						

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-11		Specimen HCG-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	126	126	-
AimStep Combo Pregnancy	-	1	1	-
Alere hCG Combo Cassette	-	2	2	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 20 hCG	-	68	68	-
Beckman Coulter ICON 25 hCG	-	5	5	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	6	6	-
Henry Schein One Step + Combo	-	5	5	-
McKesson hCG Combo Cassette	-	4	4	-
Medline hCG Combo Test Cassette	-	2	2	-
Quidel QuickVue + One-Step	-	6	6	-
Quidel QuickVue One-Step Combo	-	11	11	-
Sekisui OSOM hCG Combo Test	-	3	3	-
Stanbio QUPID Plus	-	2	2	-

<u>Method</u>	Specimen HCG-13		Specimen HCG-14	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	126	126	-
AimStep Combo Pregnancy	-	1	1	-
Alere hCG Combo Cassette	-	2	2	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 20 hCG	-	68	68	-
Beckman Coulter ICON 25 hCG	-	5	5	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	6	6	-
Henry Schein One Step + Combo	-	5	5	-
McKesson hCG Combo Cassette	-	4	4	-
Medline hCG Combo Test Cassette	-	2	2	-
Quidel QuickVue + One-Step	-	6	6	-
Quidel QuickVue One-Step Combo	-	11	11	-
Sekisui OSOM hCG Combo Test	-	3	3	-
Stanbio QUPID Plus	-	2	2	-

Serum hCG – Qualitative

Specimen HCG-15

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	125	1
AimStep Combo Pregnancy	1	-
Alere hCG Combo Cassette	2	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 20 hCG	68	-
Beckman Coulter ICON 25 hCG	5	-
BTNX Rapid Response hCG	1	-
Cardinal Health SP Brand combo	9	-
CONSULT diagnostics hCG Combo	6	-
Henry Schein One Step + Combo	5	-
McKesson hCG Combo Cassette	4	-
Medline hCG Combo Test Cassette	2	-
Quidel QuickVue + One-Step	5	1
Quidel QuickVue One-Step Combo	11	-
Sekisui OSOM hCG Combo Test	3	-
Stanbio QUPID Plus	2	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-11						Specimen HCG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	1.0	0.7	69.6	1	0 - 3	15	6737.9	3315.8	49.2	6089	106 - 13370
<u>Method</u>	Specimen HCG-13						Specimen HCG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	1.0	0.7	69.0	1	0 - 3	14	322.2	152.6	47.4	233	16 - 628
<u>Method</u>	Specimen HCG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	1774.2	999.1	56.3	1313	0 - 3773						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	202.8	7.1	3.5	203	182 - 224	153	168.8	5.8	3.4	169	151 - 186
All Alfa Wassermann Reagents	15	209.8	5.1	2.4	209	188 - 231	16	176.0	5.2	2.9	175	158 - 194
All Horiba Pentra Reagents	12	197.8	9.9	5.0	200	178 - 218	12	164.6	9.0	5.5	168	148 - 182
All Roche Reagents	10	198.3	6.3	3.2	197	178 - 219	10	165.2	4.7	2.8	166	148 - 182
Abaxis Piccolo												
All Chemistry Instruments	5	189.6	2.5	1.3	189	170 - 209	4	-	-	-	161	144 - 178
Alere Cholestech LDX												
Alere Cholestech LDX - waived	37	204.2	7.5	3.7	204	183 - 225	37	168.1	6.2	3.7	167	151 - 185
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	209.8	5.1	2.4	209	188 - 231	16	176.0	5.2	2.9	175	158 - 194
Beckman AU												
Beckman AU systems	22	200.0	5.3	2.6	201	180 - 221	22	166.3	4.6	2.7	167	149 - 183
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	197.8	9.9	5.0	200	178 - 218	12	164.6	9.0	5.5	168	148 - 182
Roche Integra												
Roche Integra	6	194.5	2.9	1.5	196	175 - 214	6	162.8	4.1	2.5	163	146 - 180
Siemens Healthcare												
Siemens Dimension	22	205.0	3.5	1.7	205	184 - 226	22	171.1	3.3	1.9	170	153 - 189
All Chemistry Instruments	23	205.0	3.4	1.7	205	184 - 226	23	171.0	3.3	1.9	170	153 - 189
VITROS												
VITROS 250,350,400 500,700,750,950	13	200.7	5.9	3.0	202	180 - 221	13	167.3	4.8	2.8	168	150 - 185
All Chemistry Instruments	16	201.8	6.0	3.0	204	181 - 222	16	167.9	4.5	2.7	169	151 - 185

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	118	100.9	3.8	3.8	100	90 - 111	118	135.1	4.7	3.5	135	121 - 149
All Alfa Wassermann Reagents	16	106.1	3.4	3.2	106	95 - 117	16	140.9	4.3	3.0	140	126 - 155
All Horiba Pentra Reagents	12	97.8	5.0	5.1	99	88 - 108	12	131.0	6.2	4.8	133	117 - 145
All Roche Reagents	10	99.2	2.7	2.8	99	89 - 110	10	132.5	3.7	2.8	132	119 - 146
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	100	90 - 111	3	-	-	-	133	118 - 145
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	100.2	0.4	0.4	100	90 - 111	5	131.6	9.4	7.2	135	118 - 145
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	106.1	3.4	3.2	106	95 - 117	16	140.9	4.3	3.0	140	126 - 155
Beckman AU												
Beckman AU systems	22	99.2	3.0	3.0	100	89 - 110	22	132.8	4.0	3.0	134	119 - 147
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	97.8	5.0	5.1	99	88 - 108	12	131.0	6.2	4.8	133	117 - 145
Roche Integra												
Roche Integra	6	97.5	1.4	1.4	98	87 - 108	6	130.8	2.8	2.1	131	117 - 144
Siemens Healthcare												
Siemens Dimension	22	102.1	2.3	2.2	101	91 - 113	22	136.8	2.4	1.8	137	123 - 151
All Chemistry Instruments	23	102.2	2.2	2.2	101	91 - 113	23	136.7	2.4	1.8	137	123 - 151
VITROS												
VITROS 250,350,400 500,700,750,950	12	96.7	3.0	3.1	97	87 - 107	13	132.0	4.1	3.1	134	118 - 146
All Chemistry Instruments	15	96.6	2.6	2.7	97	86 - 107	16	132.1	3.9	2.9	134	118 - 146

Cholesterol, Total (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	119	185.5	6.7	3.6	186	166 - 205
All Alfa Wassermann Reagents	16	190.8	8.1	4.2	191	171 - 210
All Horiba Pentra Reagents	12	179.2	8.6	4.8	181	161 - 198
All Roche Reagents	10	181.4	4.5	2.5	182	163 - 200
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	177	157 - 193
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	187.8	6.5	3.5	188	169 - 207
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	190.8	8.1	4.2	191	171 - 210
Beckman AU						
Beckman AU systems	22	182.7	5.1	2.8	184	164 - 202
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	179.2	8.6	4.8	181	161 - 198
Roche Integra						
Roche Integra	6	178.5	3.0	1.7	179	160 - 197
Siemens Healthcare						
Siemens Dimension	22	187.8	3.3	1.8	187	168 - 207
All Chemistry Instruments	23	188.0	3.4	1.8	187	169 - 207
VITROS						
VITROS 250,350,400 500,700,750,950	13	183.6	6.7	3.6	185	165 - 202
All Chemistry Instruments	16	184.3	6.2	3.4	186	165 - 203

LDL Cholesterol - Direct (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12						
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	35	67.6	18.7	27.6	65	30 - 105	34	55.6	16.3	29.3	55	23 - 89	
Beckman AU Direct HDL / LDL Beckman AU systems	11	49.7	3.7	7.5	51	34 - 65	11	40.0	2.8	6.9	41	28 - 52	
Roche LDL Direct All Chemistry Instruments	5	106.2	4.3	4.1	106	74 - 139	5	88.0	3.4	3.9	87	61 - 115	
Siemens Automated LDL Siemens Dimension	10	69.3	5.2	7.5	70	48 - 91	10	57.4	5.0	8.7	59	40 - 75	
	Specimen CH-13						Specimen CH-14						
All Method	35	31.8	9.9	31.1	31	11 - 52	35	43.9	12.9	29.5	44	18 - 70	
Beckman AU Direct HDL / LDL Beckman AU systems	11	22.1	1.6	7.4	22	15 - 29	11	31.0	2.3	7.5	31	21 - 41	
Roche LDL Direct All Chemistry Instruments	5	51.6	1.8	3.5	52	36 - 68	5	69.4	2.7	3.9	70	48 - 91	
Siemens Automated LDL Siemens Dimension	10	32.7	3.2	9.8	34	22 - 43	10	45.1	4.3	9.4	46	31 - 59	
	Specimen CH-15												
All Method	35	61.6	17.6	28.5	61	26 - 97							
Beckman AU Direct HDL / LDL Beckman AU systems	11	45.0	3.0	6.7	46	31 - 59							
Roche LDL Direct All Chemistry Instruments	5	98.0	3.7	3.8	99	68 - 128							
Siemens Automated LDL Siemens Dimension	10	63.0	5.2	8.3	64	44 - 82							

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	154	88.9	8.8	9.9	89	62 - 116	152	72.7	8.3	11.5	71	50 - 95
All Dex-Sulfate 50,000 MW Methods	37	85.8	7.0	8.1	84	60 - 112	36	67.3	5.2	7.7	68	47 - 88
All Direct Methods	100	88.5	8.9	10.0	88	61 - 116	99	73.5	8.7	11.8	72	51 - 96
Abaxis Piccolo												
All Chemistry Instruments	5	91.4	7.5	8.2	94	63 - 119	4	-	-	-	62	43 - 82
Alere Cholestech LDX												
Alere Cholestech LDX - waived	37	85.8	7.0	8.1	84	60 - 112	36	67.3	5.2	7.7	68	47 - 88
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	16	86.3	5.0	5.8	89	60 - 113	16	71.6	4.9	6.8	72	50 - 94
All Chemistry Instruments	17	85.5	5.7	6.6	88	59 - 112	17	71.1	5.2	7.4	71	49 - 93
Beckman AU Direct HDL / LDL												
Beckman AU systems	20	85.8	3.5	4.1	87	60 - 112	20	70.5	4.0	5.6	71	49 - 92
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	77.3	4.4	5.7	78	54 - 101	12	64.0	3.6	5.6	64	44 - 84
Roche HDL Direct												
Roche Integra	5	96.0	7.8	8.1	97	67 - 125	5	80.8	5.2	6.4	82	56 - 106
All Chemistry Instruments	9	96.0	5.6	5.8	96	67 - 125	9	80.8	3.7	4.6	81	56 - 106
Siemens Automated HDL												
Siemens Dimension	21	99.5	4.2	4.3	99	69 - 130	21	85.1	3.7	4.4	85	59 - 111
All Chemistry Instruments	22	99.8	4.4	4.4	100	69 - 130	22	85.3	3.7	4.3	85	59 - 111
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	10	97.0	2.5	2.6	96	67 - 127	10	79.3	2.8	3.5	80	55 - 104
All Chemistry Instruments	13	99.2	4.9	5.0	97	69 - 129	13	80.2	3.2	4.0	80	56 - 105

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	120	44.3	6.9	15.6	43	31 - 58	120	59.0	7.8	13.2	58	41 - 77
All Dex-Sulfate 50,000 MW Methods	5	31.4	4.0	12.9	32	21 - 41	5	48.8	3.6	7.3	48	34 - 64
All Direct Methods	98	44.9	6.9	15.5	44	31 - 59	98	59.2	8.1	13.7	58	41 - 77
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	33	23 - 45	3	-	-	-	50	35 - 67
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	31.4	4.0	12.9	32	21 - 41	5	48.8	3.6	7.3	48	34 - 64
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	16	45.8	3.2	7.0	46	32 - 60	16	59.3	4.4	7.4	60	41 - 78
All Chemistry Instruments	17	45.2	3.9	8.7	46	31 - 59	17	58.5	5.2	8.8	59	40 - 77
Beckman AU Direct HDL / LDL												
Beckman AU systems	20	41.4	2.5	6.0	42	28 - 54	20	55.4	2.9	5.3	56	38 - 73
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	37.4	1.6	4.2	38	26 - 49	12	49.8	2.6	5.3	50	34 - 65
Roche HDL Direct												
Roche Integra	5	48.2	3.8	7.8	49	33 - 63	5	64.8	4.6	7.1	66	45 - 85
All Chemistry Instruments	9	47.8	2.8	5.9	48	33 - 63	9	64.4	3.3	5.2	65	45 - 84
Siemens Automated HDL												
Siemens Dimension	21	55.2	2.0	3.7	55	38 - 72	21	70.6	3.0	4.3	70	49 - 92
All Chemistry Instruments	22	55.2	2.0	3.6	56	38 - 72	22	70.7	3.0	4.2	70	49 - 92
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	10	44.5	2.2	5.0	45	31 - 58	10	60.7	2.1	3.5	61	42 - 79
All Chemistry Instruments	13	44.7	2.0	4.4	45	31 - 59	13	61.2	2.1	3.5	61	42 - 80

Cholesterol, HDL (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	120	82.2	8.8	10.7	81	57 - 107
All Dex-Sulfate 50,000 MW Methods	5	81.8	9.3	11.4	80	57 - 107
All Direct Methods	98	81.1	8.8	10.9	80	56 - 106
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	81	52 - 99
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	81.8	9.3	11.4	80	57 - 107
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	16	79.4	5.0	6.3	80	55 - 104
All Chemistry Instruments	17	78.7	5.7	7.3	79	55 - 103
Beckman AU Direct HDL / LDL						
Beckman AU systems	20	77.6	3.5	4.5	78	54 - 101
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	70.7	3.1	4.3	72	49 - 92
Roche HDL Direct						
Roche Integra	5	88.8	6.5	7.3	91	62 - 116
All Chemistry Instruments	9	88.7	4.6	5.2	89	62 - 116
Siemens Automated HDL						
Siemens Dimension	21	92.6	3.9	4.2	92	64 - 121
All Chemistry Instruments	22	92.8	3.9	4.2	93	64 - 121
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	10	89.5	4.2	4.7	90	62 - 117
All Chemistry Instruments	13	90.2	3.9	4.3	91	63 - 118

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	231.5	15.4	6.6	229	173 - 290	153	196.9	12.5	6.3	195	147 - 247
All Alfa Wassermann Reagents	16	240.9	7.9	3.3	240	180 - 302	16	207.8	6.4	3.1	206	155 - 260
All Horiba Pentra Reagents	12	232.1	8.6	3.7	231	174 - 291	12	198.0	6.2	3.1	197	148 - 248
All Roche Reagents	10	229.0	4.4	1.9	229	171 - 287	10	196.6	3.7	1.9	197	147 - 246
Abaxis Piccolo												
All Chemistry Instruments	5	248.2	2.2	0.9	247	186 - 311	5	210.4	0.9	0.4	211	157 - 263
Alere Cholestech LDX												
Alere Cholestech LDX - waived	36	216.3	9.4	4.4	219	162 - 271	36	184.4	6.9	3.7	186	138 - 231
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	240.9	7.9	3.3	240	180 - 302	16	207.8	6.4	3.1	206	155 - 260
Beckman AU												
Beckman AU systems	22	235.9	5.5	2.3	237	176 - 295	22	200.1	5.9	2.9	200	150 - 251
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	232.1	8.6	3.7	231	174 - 291	12	198.0	6.2	3.1	197	148 - 248
Roche Integra												
Roche Integra	6	230.8	2.6	1.1	231	173 - 289	6	198.2	2.9	1.5	199	148 - 248
Siemens Healthcare												
Siemens Dimension	22	224.9	3.5	1.6	225	168 - 282	22	190.0	3.4	1.8	190	142 - 238
All Chemistry Instruments	23	225.3	4.0	1.8	225	169 - 282	23	190.4	4.1	2.1	190	142 - 239
VITROS												
VITROS 250,350,400 500,700,750,950	13	261.4	5.9	2.3	262	196 - 327	13	220.0	5.2	2.4	221	165 - 275
All Chemistry Instruments	16	261.0	5.5	2.1	262	195 - 327	15	219.4	5.2	2.4	220	164 - 275

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	119	128.2	7.4	5.7	129	96 - 161	119	163.9	9.2	5.6	163	122 - 205
All Alfa Wassermann Reagents	16	134.2	2.9	2.2	134	100 - 168	16	170.5	4.7	2.8	170	127 - 214
All Horiba Pentra Reagents	12	130.2	3.8	2.9	129	97 - 163	12	163.8	5.7	3.5	163	122 - 205
All Roche Reagents	10	128.9	3.0	2.3	129	96 - 162	10	163.1	3.3	2.0	164	122 - 204
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	135	100 - 168	3	-	-	-	170	127 - 213
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	120.2	5.1	4.3	120	90 - 151	5	152.2	9.0	5.9	155	114 - 191
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	134.2	2.9	2.2	134	100 - 168	16	170.5	4.7	2.8	170	127 - 214
Beckman AU												
Beckman AU systems	22	128.3	3.9	3.1	129	96 - 161	22	164.3	4.4	2.7	165	123 - 206
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	130.2	3.8	2.9	129	97 - 163	12	163.8	5.7	3.5	163	122 - 205
Roche Integra												
Roche Integra	6	130.2	1.8	1.4	130	97 - 163	6	164.8	1.9	1.2	166	123 - 207
Siemens Healthcare												
Siemens Dimension	22	118.3	2.2	1.8	118	88 - 148	21	154.1	1.9	1.2	154	115 - 193
All Chemistry Instruments	22	118.3	2.2	1.8	118	88 - 148	23	155.0	3.4	2.2	154	116 - 194
VITROS												
VITROS 250,350,400 500,700,750,950	13	138.4	4.1	3.0	138	103 - 173	13	179.3	4.9	2.7	179	134 - 225
All Chemistry Instruments	15	137.9	4.0	2.9	138	103 - 173	15	178.8	4.7	2.6	179	134 - 224

Triglycerides (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	120	217.6	12.8	5.9	217	163 - 273
All Alfa Wassermann Reagents	16	225.1	5.6	2.5	225	168 - 282
All Horiba Pentra Reagents	12	213.6	7.1	3.3	213	160 - 267
All Roche Reagents	10	213.4	4.8	2.2	214	160 - 267
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	228	170 - 285
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	206.8	11.0	5.3	206	155 - 259
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	225.1	5.6	2.5	225	168 - 282
Beckman AU						
Beckman AU systems	22	217.9	5.4	2.5	219	163 - 273
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	213.6	7.1	3.3	213	160 - 267
Roche Integra						
Roche Integra	6	215.7	3.4	1.6	217	161 - 270
Siemens Healthcare						
Siemens Dimension	22	206.5	2.3	1.1	206	154 - 259
All Chemistry Instruments	22	206.5	2.3	1.1	206	154 - 259
VITROS						
VITROS 250,350,400 500,700,750,950	13	241.5	5.9	2.4	241	181 - 302
All Chemistry Instruments	16	240.4	5.9	2.5	240	180 - 301

Acetaminophen (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	100.73	7.92	7.9	104.9	85.6 - 115.9	6	78.03	7.35	9.4	80.8	66.3 - 89.8
Siemens Dimension	5	105.30	0.57	0.5	105.3	89.5 - 121.1	5	82.20	1.98	2.4	82.2	69.8 - 94.6
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	34.40	4.51	13.1	36.7	29.2 - 39.6	6	57.17	3.53	6.2	58.9	48.5 - 65.8
Siemens Dimension	5	37.00	0.42	1.1	37.0	31.4 - 42.6	5	59.20	0.42	0.7	59.2	50.3 - 68.1
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	92.17	6.64	7.2	95.8	78.3 - 106.0						
Siemens Dimension	5	96.00	0.28	0.3	96.0	81.6 - 110.4						

Carbamazepine (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	11.93	0.12	1.0	12.0	8.9 - 15.0	6	9.83	0.15	1.6	9.8	7.3 - 12.3
Siemens Dimension	5	11.90	0.14	1.2	11.9	8.9 - 14.9	5	9.75	0.07	0.7	9.8	7.3 - 12.2
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	5.57	0.31	5.5	5.5	4.1 - 7.0	6	7.83	0.51	6.6	7.7	5.8 - 9.8
Siemens Dimension	5	5.40	0.14	2.6	5.4	4.0 - 6.8	5	7.55	0.21	2.8	7.6	5.6 - 9.5
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	11.13	0.61	5.5	11.0	8.3 - 14.0						
Siemens Dimension	5	10.80	0.28	2.6	10.8	8.1 - 13.5						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	1.93	0.06	3.0	1.9	1.5 - 2.4	6	1.50	0.10	6.7	1.5	1.2 - 1.8
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	0.70	0.01	0.0	0.7	0.5 - 0.9	6	1.13	0.06	5.1	1.1	0.9 - 1.4
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	1.77	0.06	3.3	1.8	1.4 - 2.2						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	8.40	0.57	6.7	8.4	6.3 - 10.5	5	6.60	0.57	8.6	6.6	4.9 - 8.3
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.90	0.42	14.6	2.9	1.9 - 3.9	5	5.20	0.85	16.3	5.2	3.9 - 6.5
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	8.30	1.56	18.7	8.3	6.2 - 10.4						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	2.07	0.21	10.1	2.0	1.6 - 2.5	6	1.67	0.21	12.5	1.6	1.3 - 2.1
Siemens Dimension	5	2.15	0.21	9.9	2.2	1.7 - 2.6	5	1.75	0.21	12.1	1.8	1.4 - 2.1
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	0.80	0.10	12.5	0.8	0.5 - 1.1	6	1.27	0.15	12.1	1.3	0.9 - 1.6
Siemens Dimension	5	0.85	0.07	8.3	0.9	0.5 - 1.2	5	1.35	0.07	5.2	1.4	1.0 - 1.7
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	1.87	0.21	11.2	1.8	1.4 - 2.3						
Siemens Dimension	5	1.95	0.21	10.9	2.0	1.5 - 2.4						

Phenobarbital (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	41.4	Not graded	1	-	-	-	31.3	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	14.4	Not graded	1	-	-	-	22.9	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	35.7	Not graded						

Phenytoin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	25.40	1.10	4.3	24.8	19.0 - 31.8	5	20.35	1.85	9.1	21.1	15.2 - 25.5
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	11.42	0.67	5.9	11.8	8.5 - 14.3	5	15.76	0.62	3.9	16.0	11.8 - 19.7
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	23.14	0.69	3.0	23.4	17.3 - 29.0						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	29.60	1.41	4.8	29.6	22.2 - 37.0	5	23.55	0.21	0.9	23.6	17.6 - 29.5
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	12.30	0.14	1.1	12.3	9.2 - 15.4	5	18.55	1.06	5.7	18.6	13.9 - 23.2
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	26.95	1.63	6.0	27.0	20.2 - 33.7						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	31.2	Not graded	1	-	-	-	24.0	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	17.3	Not graded	1	-	-	-	23.6	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	34.6	Not graded						

Valproic Acid (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	95.84	6.94	7.2	95.4	71.8 - 119.8	8	82.12	4.43	5.4	82.3	61.5 - 102.7
Siemens Dimension	5	96.50	4.06	4.2	95.4	72.3 - 120.7	5	82.63	3.11	3.8	82.3	61.9 - 103.3
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	51.46	3.48	6.8	52.5	38.5 - 64.4	8	67.88	4.98	7.3	68.0	50.9 - 84.9
Siemens Dimension	5	52.03	1.36	2.6	52.5	39.0 - 65.1	5	69.10	2.72	3.9	68.0	51.8 - 86.4
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	91.46	6.11	6.7	90.8	68.5 - 114.4						
Siemens Dimension	5	90.77	0.75	0.8	90.8	68.0 - 113.5						

Vancomycin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	44.28	3.35	7.6	44.5	33.2 - 55.4	10	33.20	2.14	6.4	33.3	24.9 - 41.5
Beckman AU systems	5	41.55	1.63	3.9	41.6	31.1 - 52.0	5	31.45	0.92	2.9	31.5	23.5 - 39.4
Siemens Dimension	5	47.00	1.13	2.4	47.0	35.2 - 58.8	5	34.95	0.78	2.2	35.0	26.2 - 43.7
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	12.70	1.28	10.0	12.7	9.5 - 15.9	10	22.35	2.04	9.1	22.5	16.7 - 28.0
Beckman AU systems	5	11.60	0.14	1.2	11.6	8.7 - 14.5	5	20.60	0.42	2.1	20.6	15.4 - 25.8
Siemens Dimension	5	13.80	0.14	1.0	13.8	10.3 - 17.3	5	24.10	0.14	0.6	24.1	18.0 - 30.2
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	37.90	3.02	8.0	37.8	28.4 - 47.4						
Beckman AU systems	5	35.30	0.28	0.8	35.3	26.4 - 44.2						
Siemens Dimension	5	40.50	0.57	1.4	40.5	30.3 - 50.7						

Blood Lead (µg/dL)

<u>Instrument</u>	Specimen LED-5						Specimen LED-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	24.87	3.63	14.6	25.0	20.8 - 28.9	10	10.14	1.59	15.7	10.3	6.1 - 14.2
All Magellan Diagnostics Methods	10	24.87	3.63	14.6	25.0	20.8 - 28.9	10	10.14	1.59	15.7	10.3	6.1 - 14.2
Magellan Diagnostics LeadCare II	10	24.87	3.63	14.6	25.0	20.8 - 28.9	10	10.14	1.59	15.7	10.3	6.1 - 14.2

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	0.04	0.08	186.1	0.0	0.0 - 0.5	26	6.76	0.55	8.1	6.8	5.4 - 8.2
No Reagent Required												
Bilirubinometer / Unistat	17	0.00	0.01	0.0	0.0	0.0 - 0.4	17	6.79	0.59	8.8	6.7	5.4 - 8.2
All Chemistry Instruments	19	0.03	0.08	306.2	0.0	0.0 - 0.5	21	6.84	0.55	8.1	6.8	5.4 - 8.3
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	11.96	0.75	6.3	11.9	9.5 - 14.4	25	17.03	1.28	7.5	17.0	13.6 - 20.5
No Reagent Required												
Bilirubinometer / Unistat	17	12.08	0.77	6.4	12.1	9.6 - 14.5	17	17.62	2.00	11.3	17.6	14.0 - 21.2
All Chemistry Instruments	21	12.04	0.75	6.2	12.0	9.6 - 14.5	20	17.09	1.37	8.0	17.0	13.6 - 20.6
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	18.47	1.16	6.3	18.8	14.7 - 22.2						
No Reagent Required												
Bilirubinometer / Unistat	17	18.75	1.15	6.2	19.1	15.0 - 22.6						
All Chemistry Instruments	21	18.42	1.28	7.0	18.9	14.7 - 22.2						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	0.14	0.16	110.1	0.1	0.0 - 0.5	11	1.61	0.47	29.2	1.5	0.6 - 2.6
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	4.89	0.92	18.9	4.7	3.0 - 6.8	11	5.69	0.75	13.2	5.4	4.1 - 7.2
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	3.96	0.69	17.5	3.8	2.5 - 5.4						

Blood Gases – pH

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.310	0.001	0.0	7.31	7.27 - 7.35	11	7.510	0.001	0.0	7.51	7.47 - 7.55
i-STAT	11	7.310	0.001	0.0	7.31	7.27 - 7.35	11	7.510	0.001	0.0	7.51	7.47 - 7.55
Specimen BG-13							Specimen BG-14					
All Method	11	7.178	0.005	0.1	7.18	7.13 - 7.22	11	7.153	0.005	0.1	7.15	7.11 - 7.20
i-STAT	11	7.178	0.005	0.1	7.18	7.13 - 7.22	11	7.153	0.005	0.1	7.15	7.11 - 7.20
Specimen BG-15												
All Method	11	7.185	0.006	0.1	7.19	7.14 - 7.23						
i-STAT	11	7.185	0.006	0.1	7.19	7.14 - 7.23						

Blood Gases - pCO₂ (mmHg)

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	20.40	1.40	6.8	20.8	15.4 - 25.4	11	27.93	1.40	5.0	27.4	22.9 - 33.0
i-STAT	11	20.40	1.40	6.8	20.8	15.4 - 25.4	11	27.93	1.40	5.0	27.4	22.9 - 33.0
Specimen BG-13							Specimen BG-14					
All Method	11	57.65	1.33	2.3	57.8	52.6 - 62.7	11	70.53	1.90	2.7	71.0	64.8 - 76.2
i-STAT	11	57.65	1.33	2.3	57.8	52.6 - 62.7	11	70.53	1.90	2.7	71.0	64.8 - 76.2
Specimen BG-15												
All Method	11	56.75	2.38	4.2	56.7	51.7 - 61.8						
i-STAT	11	56.75	2.38	4.2	56.7	51.7 - 61.8						

Blood Gases - pO₂ (mmHg)

			Specimen BG-11				Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	167.25	6.70	4.0	166.5	147.1 - 187.4	11	117.00	6.06	5.2	117.5	98.8 - 135.2
i-STAT	11	167.25	6.70	4.0	166.5	147.1 - 187.4	11	117.00	6.06	5.2	117.5	98.8 - 135.2
			Specimen BG-13				Specimen BG-14					
All Method	11	83.50	6.61	7.9	84.0	63.6 - 103.4	11	97.50	10.66	10.9	97.0	65.5 - 129.5
i-STAT	11	83.50	6.61	7.9	84.0	63.6 - 103.4	11	97.50	10.66	10.9	97.0	65.5 - 129.5
			Specimen BG-15									
All Method	11	83.00	7.12	8.6	81.0	61.6 - 104.4						
i-STAT	11	83.00	7.12	8.6	81.0	61.6 - 104.4						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-11 through BG-15 are: 0.82 mmol/L, 0.90 mmol/L, 2.0 mmol/L, 2.19 mmol/L, and 2.1 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-11 through BG-15 are: 109 mmol/L, 107 mmol/L, 75 mmol/L, 86 mmol/L, and 75 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-11 through BG-15 are: 6.1 mmol/L, 6.6 mmol/L, 2.7 mmol/L, 3.8 mmol/L, and 2.7 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-11 through BG-15 are: 145 mmol/L, 160 mmol/L, 124 mmol/L, 138 mmol/L, and 124 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

<u>Method</u>	<u>Specimen BG-11</u>						<u>Specimen BG-12</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	0.8	Not graded	3	-	-	-	1.3	Not graded
i-STAT	3	-	-	-	0.8	Not graded	3	-	-	-	1.3	Not graded
<u>Method</u>	<u>Specimen BG-13</u>						<u>Specimen BG-14</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	5.0	Not graded	3	-	-	-	3.8	Not graded
i-STAT	3	-	-	-	5.0	Not graded	3	-	-	-	3.8	Not graded
<u>Method</u>	<u>Specimen BG-15</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	-	-	-	5.0	Not graded						
i-STAT	3	-	-	-	5.0	Not graded						

Afinion Glycohemoglobin (percent)

<u>Method</u>	<u>Specimen AFN-5</u>						<u>Specimen AFN-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	78	8.36	0.13	1.6	8.3	7.9 - 8.8	78	8.36	0.15	1.8	8.3	7.9 - 8.8
All Alere Afinion Analyzers	78	8.36	0.13	1.6	8.3	7.9 - 8.8	78	8.36	0.15	1.8	8.3	7.9 - 8.8
Alere Afinion 2	18	8.44	0.16	1.9	8.4	8.0 - 8.9	18	8.46	0.22	2.6	8.4	8.0 - 8.9
Alere Afinion AS100	61	8.34	0.13	1.6	8.3	7.9 - 8.8	61	8.35	0.13	1.6	8.3	7.9 - 8.8

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-5						Specimen GH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	10.25	0.55	5.4	10.2	9.7 - 10.8	102	5.48	0.21	3.8	5.5	5.2 - 5.8
All Bio-Rad Methods	5	10.25	0.26	2.6	10.3	9.7 - 10.8	5	5.75	0.13	2.2	5.8	5.4 - 6.1
All Enzymatic A1c Methods	5	9.85	0.17	1.8	9.9	9.3 - 10.4	5	5.24	0.32	6.1	5.1	4.9 - 5.6
All Hemoglobin A1c Methods	94	10.27	0.55	5.4	10.3	9.7 - 10.8	92	5.49	0.19	3.5	5.5	5.2 - 5.8
All Roche Methods	6	10.12	0.33	3.3	10.2	9.6 - 10.7	6	5.40	0.14	2.6	5.4	5.1 - 5.7
All TOSOH Methods	13	9.68	0.22	2.3	9.7	9.1 - 10.2	13	5.59	0.08	1.4	5.6	5.3 - 5.9
Beckman AU A1c	7	9.63	0.31	3.3	9.7	9.1 - 10.2	7	5.21	0.07	1.3	5.2	4.9 - 5.5
Bio-Rad D-10 HbA1C	5	10.25	0.26	2.6	10.3	9.7 - 10.8	5	5.75	0.13	2.2	5.8	5.4 - 6.1
Roche Integra A1C	5	10.23	0.33	3.2	10.3	9.7 - 10.8	5	5.45	0.13	2.4	5.5	5.1 - 5.8
Siemens DCA Vantage	44	10.65	0.37	3.4	10.7	10.1 - 11.2	42	5.54	0.16	2.8	5.6	5.2 - 5.9
Siemens Dimension HA1C	10	9.86	0.23	2.3	9.9	9.3 - 10.4	10	5.39	0.10	1.8	5.4	5.1 - 5.7
Siemens Dimension HB1C	5	9.70	0.24	2.5	9.8	9.2 - 10.2	5	5.30	0.08	1.5	5.3	5.0 - 5.6
TOSOH G8	13	9.68	0.22	2.3	9.7	9.1 - 10.2	13	5.59	0.08	1.4	5.6	5.3 - 5.9

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-11						Specimen WBG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	263	405.0	36.0	8.9	414	324 - 487	267	64.5	15.3	23.8	59	51 - 78
All Abbott Methods	41	398.2	30.3	7.6	399	318 - 478	41	55.1	5.0	9.1	54	44 - 67
All Arkray Methods	14	420.0	21.6	5.1	422	336 - 504	16	81.0	6.5	8.0	83	64 - 98
All Bayer Methods	21	343.8	33.2	9.6	336	275 - 413	20	48.2	4.8	9.9	46	38 - 58
All Hemocue Methods	49	424.0	11.1	2.6	427	339 - 509	52	88.8	8.5	9.6	91	71 - 107
All Lifescan Methods	14	444.6	30.5	6.9	457	355 - 534	14	58.1	3.5	6.1	58	46 - 70
All Roche Methods	25	413.6	16.2	3.9	415	330 - 497	25	66.3	3.9	5.9	68	53 - 80
Abbott FreeStyle Lite/Freedom Lite	7	412.9	19.9	4.8	410	330 - 496	7	61.6	1.6	2.6	61	49 - 74
Abbott FreeStyle Precision Pro	23	400.7	33.1	8.3	405	320 - 481	23	53.6	4.6	8.5	52	42 - 65
Abbott Precision XceedPro	8	383.6	29.8	7.8	384	306 - 461	8	53.6	3.8	7.1	52	42 - 65
Arkray Platinum	13	418.8	22.0	5.3	420	335 - 503	15	80.7	6.6	8.2	82	64 - 97
Bayer Contour	21	343.8	33.2	9.6	336	275 - 413	20	48.2	4.8	9.9	46	38 - 58
HemoCue Glucose 201	48	423.8	11.1	2.6	426	339 - 509	51	88.6	8.5	9.6	90	70 - 107
Home Diagnostics True Balance / TrueTrack	6	583.5	40.4	6.9	600	466 - 701	10	171.2	10.1	5.9	172	136 - 206
Lifescan One Touch Ultra/2/Mini	13	450.4	22.5	5.0	457	360 - 541	13	58.2	3.7	6.3	58	46 - 70
Medline EvenCare G2 / G3	18	386.4	52.3	13.5	368	309 - 464	18	69.8	4.7	6.7	71	55 - 84
NOVA Biomedical StatStrip	18	363.4	13.9	3.8	366	290 - 437	18	53.6	2.4	4.4	54	42 - 65
Quintet / AC	29	433.3	14.9	3.4	436	346 - 520	29	54.0	4.4	8.1	52	43 - 65
Roche Accu-Chek Inform II	7	405.1	36.7	9.1	422	324 - 487	7	63.4	8.4	13.3	68	50 - 77
Roche Accu-Chek Performa	12	410.4	14.8	3.6	411	328 - 493	12	67.8	2.3	3.3	68	54 - 82
True Metrix Pro	28	401.6	19.2	4.8	399	321 - 482	28	52.9	2.5	4.7	52	42 - 64

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-13						Specimen WBG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	61.1	6.5	10.6	64	48 - 74	17	99.4	12.8	12.9	103	79 - 120
All Lifescan Methods	8	64.3	3.8	5.9	66	51 - 78	8	109.4	6.1	5.6	112	87 - 132
All Roche Methods	2	-	-	-	71	56 - 85	2	-	-	-	108	86 - 130
Lifescan One Touch Ultra/2/Mini	8	64.3	3.8	5.9	66	51 - 78	8	109.4	6.1	5.6	112	87 - 132
Roche Accu-Chek Inform II	1	-	-	-	71	48 - 74	1	-	-	-	108	79 - 120
Roche Accu-Chek Performa	1	-	-	-	70	48 - 74	1	-	-	-	108	79 - 120
True Metrix Pro	6	54.0	1.7	3.1	54	43 - 65	6	85.2	3.0	3.5	86	68 - 103

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	342.9	45.8	13.4	339	274 - 412
All Lifescan Methods	8	383.5	27.5	7.2	401	306 - 461
All Roche Methods	2	-	-	-	340	272 - 408
Lifescan One Touch Ultra/2/Mini	8	383.5	27.5	7.2	401	306 - 461
Roche Accu-Chek Inform II	1	-	-	-	339	274 - 412
Roche Accu-Chek Performa	1	-	-	-	341	274 - 412
True Metrix Pro	6	297.5	10.8	3.6	300	238 - 357

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	4.102	0.479	11.7	3.95	3.14 - 5.06	10	13.265	2.023	15.3	12.42	9.21 - 17.32

Insulin (μU/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	40.94	8.89	21.7	41.8	23.1 - 58.8	13	127.49	37.13	29.1	148.7	53.2 - 201.8
All TOSOH Instruments	6	117.95	7.57	6.4	118.0	102.8 - 133.1	6	342.95	32.46	9.5	343.0	278.0 - 407.9
Beckman ACCESS / 2 / Dxl	5	42.85	3.47	8.1	41.5	35.9 - 49.8	5	144.13	10.69	7.4	147.4	122.7 - 165.6

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	66.9	8.2	12.2	67	46 - 87	30	184.1	24.2	13.1	187	128 - 240
All TOSOH Instruments	5	62.4	5.1	8.2	63	43 - 82	5	180.4	31.7	17.6	165	117 - 244
Beckman ACCESS / 2 / Dxl	13	66.9	2.3	3.4	67	46 - 87	13	183.1	7.3	4.0	187	128 - 239

Vitamin D (25-Hydroxy) (ng/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	34.51	5.26	15.2	34.0	23.9 - 45.1	90	95.97	15.01	15.6	97.1	65.9 - 126.0
All Roche Instruments	8	36.10	7.57	21.0	37.7	20.9 - 51.3	8	90.06	15.98	17.7	97.9	58.1 - 122.1
All TOSOH Instruments	14	38.81	3.22	8.3	39.0	32.3 - 45.3	14	104.10	5.57	5.4	104.3	92.9 - 115.3
All VITROS Instruments	5	39.96	4.14	10.4	42.2	31.6 - 48.3	5	115.20	3.27	2.8	114.0	108.6 - 121.8
Abbott Architect	7	37.26	0.94	2.5	37.0	35.3 - 39.2	7	99.94	2.83	2.8	99.7	94.2 - 105.6
Beckman ACCESS / 2 / Dxl	39	31.91	3.87	12.1	31.4	24.1 - 39.7	39	96.14	11.05	11.5	95.6	74.0 - 118.3
Qualigen FastPack	5	28.70	4.54	15.8	30.0	19.6 - 37.8	5	49.70	11.09	22.3	53.9	27.5 - 71.9
Roche cobas e 411	5	35.98	7.97	22.1	37.5	20.0 - 52.0	5	92.38	11.97	13.0	95.8	68.4 - 116.4
Siemens Dimension	5	32.16	1.75	5.4	31.6	28.6 - 35.7	5	78.94	2.71	3.4	79.5	73.5 - 84.4
TOSOH AIA PACK	5	37.53	2.44	6.5	38.4	32.6 - 42.5	5	101.73	6.26	6.2	102.1	89.2 - 114.3
TOSOH ST AIA PACK	10	39.32	3.46	8.8	39.0	32.4 - 46.3	10	105.05	5.31	5.1	106.6	94.4 - 115.7

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	342.3	Not graded	2	-	-	-	251.3	Not graded

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	55.83	55.63	99.6	47.9	0.0 - 167.1	5	46.53	44.80	96.3	43.0	0.0 - 136.2

Sex Hormone Binding Globulin (SHBG) (nmol/L)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	78.014	7.003	9.0	76.74	57.00 - 99.03	14	55.566	5.189	9.3	54.49	39.99 - 71.14
Beckman ACCESS / 2 / Dxl	10	79.042	8.057	10.2	79.10	54.87 - 103.22	10	56.322	5.928	10.5	55.25	38.53 - 74.11

Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	843.3	169.8	20.1	792	590 - 1097	15	633.6	173.6	27.4	564	443 - 824
Beckman ACCESS / 2 / Dxl	10	786.0	69.6	8.9	787	550 - 1022	10	550.7	29.8	5.4	547	385 - 716

BNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	660.56	166.14	25.2	459.5	328.2 - 992.9	18	360.76	103.60	28.7	246.0	153.5 - 568.0
i-STAT - moderate	5	768.00	69.79	9.1	764.0	576.0 - 960.0	5	418.75	57.79	13.8	415.0	303.1 - 534.4
Quidel Triage	11	443.91	52.60	11.8	451.0	332.9 - 554.9	11	226.91	44.78	19.7	209.0	137.3 - 316.5
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	81.22	26.16	32.2	59.9	28.8 - 133.6	12	1243.07	340.27	27.4	935.0	562.5 - 1923.7
i-STAT - moderate	5	95.00	10.23	10.8	98.5	71.2 - 118.8	5	1426.25	147.78	10.4	1394.5	1069.6 - 1782.9
Quidel Triage	5	48.74	7.92	16.3	48.4	32.8 - 64.6	5	731.60	123.88	16.9	702.0	483.8 - 979.4
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	2543.48	795.47	31.3	1870.0	952.5 - 4134.5						
i-STAT - moderate	5	2990.00	319.16	10.7	3005.0	2242.5 - 3737.5						
Quidel Triage	5	1418.00	261.86	18.5	1330.0	894.2 - 1941.8						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	25.50	4.73	18.5	15.7	11.3 - 39.7	17	15.01	2.63	17.5	8.3	7.1 - 22.9
Quidel Triage	11	11.40	1.92	16.8	10.9	5.6 - 17.2	11	6.95	0.73	10.5	7.1	4.7 - 9.2
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	5.92	1.72	29.0	3.1	0.7 - 11.1	17	45.61	8.58	18.8	28.2	19.8 - 71.4
Quidel Triage	11	2.65	0.63	23.9	2.8	0.7 - 4.6	11	20.45	3.66	17.9	19.9	9.4 - 31.5
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	86.90	17.44	20.1	53.5	34.5 - 139.3						
Quidel Triage	11	33.76	7.79	23.1	31.4	10.4 - 57.2						

D-Dimer (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	409.5	27.6	6.7	565	286 - 533	20	333.0	18.4	5.5	344	233 - 433
Instrumentation Laboratory (IL) ACL Series	5	409.5	27.6	6.7	410	286 - 533	5	333.0	18.4	5.5	333	233 - 433
Quidel Triage	15	584.4	46.9	8.0	586	409 - 760	15	349.9	35.6	10.2	344	244 - 455
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	274.5	6.4	2.3	154	192 - 357	20	581.5	46.0	7.9	883	407 - 756
Instrumentation Laboratory (IL) ACL Series	5	274.5	6.4	2.3	275	192 - 357	5	581.5	46.0	7.9	582	407 - 756
Quidel Triage	15	147.9	25.2	17.0	148	97 - 199	15	888.4	59.4	6.7	914	621 - 1155
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	836.0	43.8	5.2	1400	585 - 1087						
Instrumentation Laboratory (IL) ACL Series	5	836.0	43.8	5.2	836	585 - 1087						
Quidel Triage	15	1443.1	153.8	10.7	1400	1010 - 1877						

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	122.53	19.51	15.9	142.0	83.5 - 161.6	14	76.43	10.17	13.3	92.4	53.5 - 99.4
Alere Triage	10	156.11	29.65	19.0	143.0	96.8 - 215.5	10	99.63	15.82	15.9	99.1	67.9 - 131.3
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	32.27	1.76	5.4	43.3	22.5 - 42.0	14	208.53	32.42	15.5	226.0	143.6 - 273.4
Alere Triage	10	44.06	7.36	16.7	44.2	29.3 - 58.8	10	234.22	29.81	12.7	233.0	163.9 - 304.5
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	378.80	49.64	13.1	386.2	265.1 - 492.5						
Alere Triage	10	385.78	53.67	13.9	381.0	270.0 - 501.6						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	338.8	265.5	78.4	209	0 - 870	7	158.8	144.8	91.2	88	0 - 449
Siemens Dimension NT-proBNP	5	206.0	5.6	2.7	207	154 - 258	5	86.3	2.1	2.4	87	64 - 108
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	10.5	10.3	98.5	6	0 - 32	7	748.8	503.7	67.3	514	0 - 1757
Siemens Dimension NT-proBNP	5	5.3	0.6	10.8	5	3 - 7	5	497.3	36.3	7.3	492	372 - 622
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	1770.3	965.8	54.6	1315	0 - 3702						
Siemens Dimension NT-proBNP	5	1288.0	61.9	4.8	1273	966 - 1610						

Troponin I (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	3.919	3.779	96.4	1.61	0.00 - 11.48	31	1.790	1.837	102.6	0.62	0.00 - 5.47
All HS Troponin I Methods	11	12.092	6.851	56.7	9.32	0.00 - 25.80	11	6.062	4.071	67.2	3.93	0.00 - 14.21
All Non-HS Troponin I Methods	22	1.760	1.005	57.1	1.34	0.00 - 3.78	22	0.756	0.505	66.8	0.54	0.00 - 1.77
Quidel Triage	11	1.411	0.167	11.8	1.34	0.98 - 1.84	11	0.515	0.055	10.7	0.50	0.36 - 0.68
Siemens Dimension	6	2.875	1.415	49.2	3.72	0.04 - 5.71	6	1.357	0.672	49.5	1.77	0.01 - 2.71
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	0.112	0.097	86.8	0.05	0.00 - 0.31	31	8.559	7.591	88.7	4.54	0.00 - 23.75
All HS Troponin I Methods	11	0.605	1.073	177.3	0.25	0.00 - 2.76	11	24.376	12.410	50.9	17.40	0.00 - 49.20
All Non-HS Troponin I Methods	21	0.057	0.033	57.3	0.05	0.00 - 0.13	22	4.202	1.845	43.9	3.87	0.51 - 7.90
Alere Triage	10	0.050	0.001	0.0	0.05	0.03 - 0.07	11	4.112	0.572	13.9	4.05	2.87 - 5.35
Siemens Dimension	6	0.080	0.055	68.5	0.11	0.00 - 0.19	6	5.740	2.748	47.9	7.43	0.24 - 11.24
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	18.682	16.341	87.5	10.40	0.00 - 51.37						
All HS Troponin I Methods	11	51.160	22.254	43.5	38.70	6.65 - 95.67						
All Non-HS Troponin I Methods	22	9.100	3.001	33.0	9.61	3.09 - 15.11						
Alere Triage	11	9.802	0.673	6.9	9.80	6.86 - 12.75						
Siemens Dimension	6	10.367	4.582	44.2	12.96	1.20 - 19.54						

Troponin T (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	0.3785	0.1167	30.8	0.379	0.145 - 0.612	6	0.2505	0.0827	33.0	0.251	0.085 - 0.416
Roche cobas e 601/ e 602	5	0.3785	0.1167	30.8	0.379	0.145 - 0.612	5	0.2505	0.0827	33.0	0.251	0.085 - 0.416
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	0.0100	0.0001	0.0	0.010	0.007 - 0.013	6	0.6600	0.1966	29.8	0.660	0.266 - 1.054
Roche cobas e 601/ e 602	5	0.0100	0.0001	0.0	0.010	0.007 - 0.013	5	0.6600	0.1966	29.8	0.660	0.266 - 1.054
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	1.1650	0.3748	32.2	1.165	0.415 - 1.915						
Roche cobas e 601/ e 602	5	1.1650	0.3748	32.2	1.165	0.415 - 1.915						

PSA (ng/mL)

<u>Method</u>	Specimen PS-5						Specimen PS-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	78	9.384	1.569	16.7	9.84	6.56 - 12.20	78	18.236	3.231	17.7	19.31	12.76 - 23.71
All Beckman Instruments	25	10.262	0.475	4.6	10.20	7.18 - 13.35	25	20.015	0.977	4.9	19.85	14.01 - 26.02
All Roche Instruments	5	10.874	0.300	2.8	10.90	7.61 - 14.14	5	21.116	0.230	1.1	20.99	14.78 - 27.46
All TOSOH Instruments	18	7.337	0.411	5.6	7.32	5.13 - 9.54	18	14.031	0.763	5.4	13.92	9.82 - 18.24
Abbott Architect	6	8.905	0.517	5.8	8.87	6.23 - 11.58	6	16.850	0.737	4.4	17.08	11.79 - 21.91
Beckman ACCESS / 2 / Dxl	15	10.099	0.453	4.5	10.17	7.06 - 13.13	15	19.605	0.881	4.5	19.54	13.72 - 25.49
Beckman ACCESS Hybritech PSA	10	10.506	0.415	4.0	10.53	7.35 - 13.66	10	20.630	0.800	3.9	20.43	14.44 - 26.82
Qualigen FastPack	5	12.120	1.796	14.8	11.80	8.48 - 15.76	5	25.560	5.503	21.5	24.50	17.89 - 33.23
Siemens Dimension TPSA	12	10.202	0.926	9.1	10.28	7.14 - 13.27	12	20.091	1.592	7.9	20.20	14.06 - 26.12
TOSOH AIA PACK	6	7.308	0.265	3.6	7.25	5.11 - 9.51	6	13.840	0.610	4.4	13.74	9.68 - 18.00
TOSOH ST AIA PACK	12	7.352	0.478	6.5	7.41	5.14 - 9.56	12	14.126	0.837	5.9	14.12	9.88 - 18.37

Beta-2 microglobulin

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	1.248	0.119	9.5	1.20	0.89 - 1.61	6	2.736	0.230	8.4	2.72	2.04 - 3.43

CA 125 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	44.2	10.9	24.7	62	22 - 67	10	108.7	22.8	21.0	145	63 - 155
All TOSOH Instruments	8	75.1	2.5	3.3	76	60 - 91	8	199.4	10.8	5.4	199	159 - 240
TOSOH ST AIA PACK	8	75.1	2.5	3.3	76	60 - 91	8	199.4	10.8	5.4	199	159 - 240

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	57.1	18.2	31.9	57	20 - 94	9	137.2	48.9	35.7	162	39 - 236

CA 19-9 (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	59.1	17.4	29.4	54	24 - 94	9	152.4	50.6	33.2	143	51 - 254

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	99.1	8.5	8.6	100	69 - 129	10	189.6	18.6	9.8	186	132 - 247
All TOSOH Instruments	8	99.1	8.5	8.6	100	69 - 129	8	189.6	18.6	9.8	186	132 - 247
TOSOH ST AIA PACK	8	99.1	8.5	8.6	100	69 - 129	8	189.6	18.6	9.8	186	132 - 247

CEA (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	16.67	1.39	8.3	18.3	13.3 - 20.1	11	47.91	5.68	11.9	50.7	38.3 - 57.5
All TOSOH Instruments	9	19.03	0.77	4.0	18.9	15.2 - 22.9	9	52.01	1.88	3.6	52.4	41.6 - 62.5
TOSOH ST AIA PACK	9	19.03	0.77	4.0	18.9	15.2 - 22.9	9	52.01	1.88	3.6	52.4	41.6 - 62.5

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	1.545	0.265	17.2	1.66	0.64 - 2.45	8	4.896	0.822	16.8	5.20	3.42 - 6.37

PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	1.482	0.266	18.0	1.41	0.58 - 2.39	29	4.717	0.914	19.4	4.48	3.30 - 6.14
All Beckman Instruments	12	1.637	0.210	12.9	1.69	0.73 - 2.54	12	5.330	0.612	11.5	5.34	3.73 - 6.93

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	13.13	2.27	17.3	13.8	8.5 - 17.7	7	44.13	3.53	8.0	44.1	37.0 - 51.2
Beckman ACCESS / 2 / Dxl	5	14.17	1.12	7.9	14.6	11.9 - 16.4	5	44.63	4.14	9.3	45.6	36.3 - 53.0

CEA (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	10.66	1.27	11.9	12.3	8.5 - 12.8	10	21.08	2.85	13.5	23.7	16.8 - 25.3
All TOSOH Instruments	6	13.60	0.58	4.2	13.6	10.8 - 16.4	6	24.95	0.99	4.0	25.0	19.9 - 30.0

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	182.29	36.41	20.0	171.0	109.4 - 255.2	14	305.13	60.24	19.7	292.2	184.6 - 425.7
Beckman ACCESS / 2 / Dxl	10	169.28	10.71	6.3	168.4	118.4 - 220.1	10	284.69	13.58	4.8	287.4	199.2 - 370.1

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	244.8	66.8	27.3	234	111 - 379	27	408.7	110.6	27.1	380	187 - 630
All TOSOH Instruments	5	360.8	55.1	15.3	370	250 - 471	5	611.0	89.5	14.7	623	427 - 795
Beckman ACCESS / 2 / Dxl	14	233.5	12.3	5.3	233	163 - 304	14	378.2	20.7	5.5	379	264 - 492
TOSOH ST AIA PACK	5	382.8	28.8	7.5	375	267 - 498	5	647.5	42.5	6.6	638	453 - 842

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	91.0	16.8	18.5	68	72 - 110	30	153.3	30.6	20.0	118	122 - 184
All Abbott Instruments	6	106.8	4.9	4.6	105	85 - 129	6	182.2	8.7	4.8	183	145 - 219
All Roche Instruments	6	100.5	3.7	3.7	102	80 - 121	6	172.2	6.3	3.6	174	137 - 207
All TOSOH Instruments	19	62.2	3.7	5.9	63	49 - 75	19	108.9	6.5	6.0	110	87 - 131
Abbott Architect	5	106.2	5.2	4.9	103	84 - 128	5	180.2	8.1	4.5	180	144 - 217
Beckman ACCESS / 2 / Dxl	25	66.4	4.1	6.1	67	53 - 80	24	117.8	6.7	5.7	118	94 - 142
Siemens Dimension	8	105.4	24.7	23.5	99	84 - 127	8	153.1	24.6	16.1	160	122 - 184
TOSOH ST AIA PACK	15	62.1	3.8	6.1	63	49 - 75	15	108.9	6.7	6.1	110	87 - 131

Folate (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	1.78	0.50	28.4	2.0	0.7 - 2.8	21	2.97	1.02	34.3	4.0	1.9 - 4.0
All Roche Instruments	6	2.00	0.01	0.0	2.0	1.0 - 3.0	6	2.35	0.45	19.0	2.2	1.3 - 3.4
All Siemens Dimension Instruments	5	1.54	0.66	42.7	1.5	0.5 - 2.6	5	2.00	0.37	18.4	2.0	1.0 - 3.0
All Siemens Dimension Instruments	5	1.54	0.66	42.7	1.5	0.5 - 2.6	5	2.00	0.37	18.4	2.0	1.0 - 3.0
All Siemens Dimension Instruments	5	1.54	0.66	42.7	1.5	0.5 - 2.6	5	2.00	0.37	18.4	2.0	1.0 - 3.0
All Siemens Dimension Instruments	5	1.54	0.66	42.7	1.5	0.5 - 2.6	5	2.00	0.37	18.4	2.0	1.0 - 3.0
All TOSOH Instruments	8	1.26	0.43	33.9	1.3	0.2 - 2.3	8	2.23	0.35	15.7	2.3	1.2 - 3.3
Abbott Architect	5	1.96	0.49	25.2	2.1	0.9 - 3.0	5	4.32	0.32	7.4	4.3	3.0 - 5.7
Beckman ACCESS / 2 / Dxl	23	2.17	0.25	11.6	2.2	1.1 - 3.2	23	4.46	0.39	8.7	4.3	3.1 - 5.8

FSH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	22.76	3.02	13.3	23.0	18.6 - 26.9	28	36.53	4.58	12.6	36.4	29.9 - 43.1
All TOSOH Instruments	6	23.88	1.13	4.7	24.1	19.5 - 28.2	6	36.30	1.48	4.1	36.3	29.7 - 42.9
Beckman ACCESS / 2 / Dxl	13	23.44	2.14	9.1	23.6	19.2 - 27.7	13	38.51	3.12	8.1	37.9	31.5 - 45.5

Homocysteine (µmol/L)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	17.7	0.6	3.3	18	12 - 23	5	28.7	1.2	4.0	28	20 - 38

LH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	20.43	3.17	15.5	19.6	14.0 - 26.8	25	36.97	5.88	15.9	34.9	25.2 - 48.8
Beckman ACCESS / 2 / Dxl	14	19.39	1.45	7.5	19.4	15.5 - 23.3	14	34.77	3.57	10.3	34.4	27.6 - 42.0

Prealbumin (mg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
-	2	-	-	-	11.4	Not graded	2	-	-	-	13.5	Not graded

Progesterone (ng/mL)

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	15.56	4.82	31.0	13.5	11.6 - 19.5	19	25.19	7.46	29.6	22.8	18.8 - 31.5
Beckman ACCESS / 2 / Dxl	10	13.42	1.49	11.1	13.1	10.0 - 16.8	10	23.29	2.21	9.5	22.9	17.4 - 29.2

Prolactin (ng/mL)

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	21.02	2.68	12.8	20.6	16.8 - 25.3	23	38.50	5.64	14.7	37.2	30.8 - 46.3
Beckman ACCESS / 2 / Dxl	12	20.53	2.14	10.4	20.3	16.4 - 24.7	12	37.68	3.06	8.1	36.9	30.1 - 45.3

Testosterone (ng/dL)

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	45	459.7	82.7	18.0	424	321 - 598	46	794.1	131.7	16.6	730	555 - 1033
All TOSOH Instruments	11	561.1	40.4	7.2	559	392 - 730	11	999.5	53.1	5.3	1017	699 - 1300
Abbott Architect	6	407.5	17.6	4.3	410	285 - 530	6	726.2	28.7	4.0	719	508 - 945
Beckman ACCESS / 2 / Dxl	22	402.8	26.1	6.5	397	281 - 524	22	705.3	43.6	6.2	708	493 - 917
TOSOH ST AIA PACK	8	559.4	41.0	7.3	564	391 - 728	8	996.8	61.8	6.2	994	697 - 1296

Transferrin (mg/dL)

<u>Method</u>	<u>Specimen SC-5</u>						<u>Specimen SC-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	118.0	3.9	3.3	119	106 - 130	8	140.1	5.9	4.2	142	126 - 155

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	454.9	91.8	20.2	426	341 - 569	75	800.4	146.0	18.2	788	600 - 1001
All Abbott Instruments	8	480.9	34.5	7.2	478	360 - 602	8	900.9	32.0	3.6	890	675 - 1127
All Roche Instruments	6	498.7	82.7	16.6	505	374 - 624	6	920.7	105.0	11.4	928	690 - 1151
All Siemens Dimension Instruments	7	536.4	126.7	23.6	497	402 - 671	7	792.4	141.4	17.8	826	594 - 991
All TOSOH Instruments	12	598.8	33.5	5.6	601	449 - 749	12	1007.8	60.5	6.0	1007	755 - 1260
Abbott Architect	7	473.9	30.4	6.4	476	355 - 593	7	892.3	22.5	2.5	885	669 - 1116
Beckman ACCESS / 2 / Dxl	36	381.2	34.6	9.1	381	285 - 477	35	690.6	51.2	7.4	693	517 - 864
Siemens Dimension	6	545.7	136.2	25.0	502	409 - 683	6	784.3	153.2	19.5	826	588 - 981
TOSOH AIA PACK	7	607.7	35.1	5.8	603	455 - 760	7	1005.7	78.7	7.8	977	754 - 1258
TOSOH ST AIA PACK	5	586.2	30.1	5.1	598	439 - 733	5	1010.8	27.6	2.7	1012	758 - 1264

Acetone

<u>Method</u>	Specimen ETH-11					Specimen ETH-12				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	12	12	-	-	-	12	12	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-	10	10	-	-	-
Germaine Laboratories AimTab	2	2	-	-	-	2	2	-	-	-

<u>Method</u>	Specimen ETH-13					Specimen ETH-14				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	12	-	-	1	11	12	-	-	10	2
Biorex Labs K-CHECK	10	-	-	-	10	10	-	-	8	2
Germaine Laboratories AimTab	2	-	-	1	1	2	-	-	2	-

Specimen ETH-15					
<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	12	12	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-
Germaine Laboratories AimTab	2	2	-	-	-

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-11						Specimen ETH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	107.3	14.4	13.4	111	80 - 135	5	144.3	20.6	14.3	152	108 - 181

<u>Method</u>	Specimen ETH-13						Specimen ETH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	182.0	29.3	16.1	197	136 - 228	5	70.0	9.9	14.1	71	52 - 88

Specimen ETH-15						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	125.3	17.7	14.2	132	93 - 157

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.654	0.785	120.0	0.30	0.00 - 3.01	19	492.597	158.233	32.1	586.60	17.89 - 967.30
All Abbott Methods	5	1.200	1.587	132.3	0.60	0.00 - 5.97	5	365.253	43.740	12.0	358.70	234.03 - 496.48
Beckman ACCESS / 2 / Dxl	10	0.475	0.287	60.3	0.30	0.00 - 1.34	10	619.713	26.274	4.2	621.25	540.89 - 698.54

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.189	0.304	160.6	0.10	0.00 - 1.11	19	74.435	16.526	22.2	70.50	24.85 - 124.02
All Abbott Methods	5	1.000	1.732	173.2	0.00	0.00 - 6.20	5	88.657	6.148	6.9	87.77	70.21 - 107.11
Beckman ACCESS / 2 / Dxl	10	0.145	0.076	52.5	0.10	0.00 - 0.38	10	69.135	4.177	6.0	70.00	56.60 - 81.67

Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-5						Specimen AMM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	187.0	3.5	1.9	189	177 - 197	7	43.7	5.1	11.8	45	33 - 54
Siemens Dimension	5	186.0	4.2	2.3	186	176 - 196	5	43.0	7.1	16.4	43	33 - 53

Ethyl Glucuronide (EtG) (ng/mL)

<u>Method</u>	Specimen ETG-5			Specimen ETG-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	3	-	3	3	3	-
Cut-off 500						
Beckman AU	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
All Cut-off 500	3	-	3	3	3	-

Adulterated Urine – Specific Gravity

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	1.0045	0.0020	0.2	1.005	0.994 - 1.015	5	1.0320	0.0099	1.0	1.032	1.022 - 1.042

Adulterated Urine – Specific Gravity Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	5	5	-	5	5	-
Carolina Chemistries BiOlis	5	5	-	5	5	-

Adulterated Urine – pH

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	7.00	0.82	11.7	6.8	6.0 - 8.0	5	2.93	0.65	22.2	2.9	1.9 - 4.0

Adulterated Urine – pH Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	5	5	-	5	-	5
Axiom Diagnostics	1	1	-	1	-	1
Carolina Chemistries BiOlis	3	3	-	3	-	3
Siemens Viva-E	1	1	-	1	-	1

Adulterated Urine – Creatinine (mg/dL)

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	6.60	0.57	8.6	6.6	3.6 - 9.6	6	57.35	3.32	5.8	57.4	47.6 - 67.1
Beckman AU	5	6.60	0.57	8.6	6.6	3.6 - 9.6	5	57.35	3.32	5.8	57.4	47.6 - 67.1

Adulterated Urine – Creatinine Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	5	-	5	5	5	-
Beckman AU	1	-	1	1	1	-
Carolina Chemistries BiOlis	3	-	3	3	3	-
ImmTox	1	-	1	1	1	-

Adulterated Urine – Nitrite Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	2	-	2	2	2	-

Adulterated Urine – Oxidants Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Negative/Normal</u>	<u>Positive/Abnormal</u>	<u>Labs</u>	<u>Negative/Normal</u>	<u>Positive/Abnormal</u>
ALL METHODS	4	-	4	4	4	-
Beckman AU	2	-	2	2	2	-
Siemens Viva-E	2	-	2	2	2	-

Urine Drug Screen

Acetaminophen (µg/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	2	-	2	-	2

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	96	1	95	96	95	1
Cut-off 300						
Beckman AU	1	-	1	1	1	-
Siemens Viva-E	1	-	1	1	1	-
All Cut-off 300	2	-	2	2	2	-
Cut-off 500						
Beckman AU	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	4	-	4	4	4	-
First Sign Drugs of Abuse	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Indiko Plus	2	-	2	2	2	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	1	-	1	1	1	-
Mindray BS-200/BS-480	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
USDiagnostics UScreen Cup	2	-	2	2	2	-
All Cut-off 500	22	-	22	22	22	-
Cut-off 1000						
12 Panel Now	1	-	1	1	1	-
Alere iCassette	3	-	3	3	3	-
Alere iCup	2	-	2	2	2	-
Alere iScreen	24	-	24	24	24	-
Alfa Scientific Instant-View	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	2	-	2	2	2	-

Amphetamines (ng/mL) cont'd

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	2	-	2	2	2	-
Germaine Laboratories AimScreen	2	-	2	2	2	-
Immunalysis	1	-	1	1	1	-
Lin-Zhi International	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	6	-	6	6	6	-
Microgenics DRI	3	-	3	3	3	-
Noble Medical Inc.	1	-	1	1	1	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
Siemens Viva-E	1	-	1	1	1	-
USDiagnosics One Step Multi-Drug	2	-	2	2	2	-
USDiagnosics UScreen Cup	10	-	10	10	10	-
All Cut-off 1000	71	-	71	71	71	-

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	10	-	10	10	10	-
Cut-off 300						
Roche Integra	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-
Cut-off 500						
Abbott Alinity	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
MEDTOX Diagnostics	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
USDiagnosics UScreen Cup	1	-	1	1	1	-
All Cut-off 500	6	-	6	6	6	-
Cut-off 1000						
Beckman AU	1	-	1	1	1	-
Microgenics DRI	2	-	2	2	2	-
All Cut-off 1000	3	-	3	3	3	-

Barbiturates (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	81	-	81	81	-	81
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 200						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	3	-	3	3	-	3
Roche Integra	2	-	2	2	-	2
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	23	-	23	23	-	23
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 300	57	-	57	57	-	57

Benzodiazepines (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	99	-	99	99	-	99
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 150	5	-	5	5	-	5
Cut-off 200						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
ImmTox	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200/BS-480	1	-	1	1	-	1
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	22	-	22	22	-	22
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	1	-	1	1	-	1
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	3	-	3	3	-	3
Immunalysis	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics Proscreen	1	-	1	1	-	1
USDiagnostics UScreen Cup	11	-	11	11	-	11
All Cut-off 300	69	-	69	69	-	69

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	37	-	37	37	-	37
Cut-off 5						
Beckman AU	3	-	3	3	-	3
Indiko Plus	2	-	2	2	-	2
Microgenics CEDIA	3	-	3	3	-	3
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	12	-	12	12	-	12
Cut-off 10						
12 Panel Now	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Chemtron Biotech	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
McKesson Drug Panel	4	-	4	4	-	4
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics CEDIA	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
All Cut-off 10	24	-	24	24	-	24
Cut-off 20						
Microgenics CEDIA	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	97	1	96	97	1	96
Cut-off 20						
Roche Integra	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 50						
12 Panel Now	1	-	1	1	-	1
Abbott Alinity	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	7	1	6	7	1	6
Beckman AU	4	-	4	4	-	4
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	3	-	3	3	-	3
Confirm Biosciences DoA Test	1	-	1	1	-	1
Germaine Laboratories AimScreen	4	-	4	4	-	4
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	4	-	4	4	-	4
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 50	95	1	94	95	1	94
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Carisoprodol (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	113	1	112	113	1	112
Cut-off 50						
First Sign Drugs of Abuse	1	-	1	1	-	1
All Cut-off 50	1	-	1	1	-	1
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
All Cut-off 150	27	-	27	27	-	27
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24

Cocaine Metabolites (ng/mL) (cont'd)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Alfa Scientific Instant-View	7	1	6	7	1	6
Beckman AU	2	-	2	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	4	-	4	4	-	4
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	10	-	10	10	-	10
All Cut-off 300	83	1	82	83	1	82

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	4	4	-	4	-	4

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	-	5
Cut-off 100						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 150	1	-	1	1	-	1
Cut-off 300						
Beckman AU	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 1000						
Indiko Plus	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	9	9	-	9	-	9
Cut-off 10						
Abbott Alinity	1	1	-	1	-	1
Siemens EMIT II Plus	2	2	-	2	-	2
All Cut-off 10	3	3	-	3	-	3
Cut-off 20						
Beckman AU	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1
Cut-off 40						
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 40	1	1	-	1	-	1
Cut-off 100						
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Microgenics DRI	3	3	-	3	-	3
All Cut-off 100	4	4	-	4	-	4

Fentanyl (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	5	-
Cut-off 1						
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 1	1	-	1	1	1	-
Cut-off 2						
Beckman AU	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
All Cut-off 2	3	-	3	3	3	-

Hydrocodone (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

LSD (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	57	-	57	57	57	-
Cut-off 100						
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 500						
12 Panel Now	1	-	1	1	1	-
Alere iCup	2	-	2	2	2	-
Alere iScreen	24	-	24	24	24	-
Beckman AU	2	-	2	2	2	-
CLIAwaived, Inc. Drug Test	6	-	6	6	6	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	6	-	6	6	6	-
Microgenics DRI	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
USDiagnosics One Step Multi-Drug	2	-	2	2	2	-
USDiagnosics UScreen Cup	8	-	8	8	8	-
All Cut-off 500	56	-	56	56	56	-

Meperidine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	85	-	85	85	-	85
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Beckman AU	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 150	2	-	2	2	-	2
Cut-off 200						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 200	5	-	5	5	-	5
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Abbott Alinity	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Beckman AU	2	-	2	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	8	-	8	8	-	8
All Cut-off 300	76	-	76	76	-	76
Cut-off 1000						
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	75	-	75	75	75	-
Cut-off 500						
Alere iScreen	24	-	24	24	24	-
Beckman AU	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	4	-	4	4	4	-
First Sign Drugs of Abuse	1	-	1	1	1	-
ImmTox	2	-	2	2	2	-
Lin-Zhi International	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Noble Medical Inc.	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
USDiagnostics UScreen Cup	2	-	2	2	2	-
All Cut-off 500	42	-	42	42	42	-
Cut-off 1000						
12 Panel Now	1	-	1	1	1	-
Alere iCassette	3	-	3	3	3	-
Alere iCup	2	-	2	2	2	-
Alfa Scientific Instant-View	1	-	1	1	1	-
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	2	-	2	2	2	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	2	-	2	2	2	-
McKesson Consult Drug Panel	2	-	2	2	2	-
McKesson Drug Panel	5	-	5	5	5	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	9	-	9	9	9	-
All Cut-off 1000	33	-	33	33	33	-

Methanol (mg/dL)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	1	-	1	-	1
Cut-off 300						
Microgenics DRI	1	1	-	1	-	1
All Cut-off 300	1	1	-	1	-	1

6-MAM (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	8	-	8	8	-	8
Cut-off 10						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Microgenics CEDIA	2	-	2	2	-	2
Siemens Viva-E	1	-	1	1	-	1
All Cut-off 10	8	-	8	8	-	8

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	112	1	111	112	1	111
Cut-off 100						
Beckman AU	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 100	4	-	4	4	-	4
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Abbott Alinity	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	2	-	2	2	-	2
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Indiko Plus	3	-	3	3	-	3
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	3	-	3	3	-	3
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200/BS-480	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	9	-	9	9	-	9

Opiates (Morphine Trihydrate) (ng/mL) (cont'd)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Cut-off 300	77	-	77	77	-	77
Cut-off 2000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	5	1	4	5	1	4
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
First Sign Drugs of Abuse	3	-	3	3	-	3
Germaine Laboratories AimScreen	4	-	4	4	-	4
Immunalysis	1	-	1	1	-	1
McKesson Drug Panel	2	-	2	2	-	2
MEDTOX Diagnostics	2	-	2	2	-	2
Noble Medical Inc.	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
All Cut-off 2000	31	1	30	31	1	30

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	82	82	-	82	-	82
Cut-off 100						
12 Panel Now	1	1	-	1	-	1
Alere iCassette	2	2	-	2	-	2
Alere iCup	2	2	-	2	-	2
Alere iScreen	25	25	-	25	-	25
Beckman AU	4	4	-	4	-	4
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	6	6	-	6	-	6
Confirm Biosciences DoA Test	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	6	6	-	6	-	6
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	5	5	-	5	-	5
Noble Medical Inc.	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
Roche cobas 6000 / c 501	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
Siemens EMIT II Plus	2	2	-	2	-	2
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	8	8	-	8	-	8
All Cut-off 100	79	79	-	79	-	79
Cut-off 300						
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
All Cut-off 300	3	3	-	3	-	3

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	74	-	74	74	-	74
Cut-off 25						
Abbott Alinity	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	1	-	1	1	-	1
Germaine Laboratories AimScreen	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	8	-	8	8	-	8
All Cut-off 25	73	-	73	73	-	73
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	17	-	17	17	-	17
Cut-off 300						
Abbott Alinity	1	-	1	1	-	1
Alere iCassette	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	-	5
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 300	17	-	17	17	-	17

Tramadol (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	23	-	23	23	-	23
Cut-off 300						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 300	5	-	5	5	-	5
Cut-off 1000						
Alere iCup	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 1000	18	-	18	18	-	18

Zolpidem (mg/dL)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	286	Not graded	1	-	-	-	202	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	4.0	Not graded	1	-	-	-	7.0	Not graded

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	271	Not graded	1	-	-	-	171	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	190.23	7.43	3.9	190.2	157.8 - 222.6	6	142.65	27.34	19.2	133.0	118.3 - 167.0

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	280	Not graded	1	-	-	-	157	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	9.0	Not graded	1	-	-	-	6.0	Not graded

Urine Osmolality (mOsm/kg)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	702	Not graded	1	-	-	-	451	Not graded

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	64	Not graded	1	-	-	-	39	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	98.0	Not graded	1	-	-	-	62.0	Not graded

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	180	Not graded	1	-	-	-	127	Not graded

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	73.68	14.32	19.4	80.3	41.2 - 106.1	6	40.10	6.15	15.3	42.9	22.4 - 57.8

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	714	Not graded	1	-	-	-	516	Not graded

Urine Uric Acid (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	9.0	Not graded	1	-	-	-	7.0	Not graded

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