

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2017 MLE-M1



Total Commitment to Education and Service
Provided by ACP, Inc.

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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	$\pm 20\%$	Lactate (Lactic Acid)	± 0.4 mmol/L or 3 SD *
Acetone	80% Consensus	LDL Cholesterol	± 2 SD or 30% *
Albumin	$\pm 10\%$	Lipase	$\pm 30\%$
Alcohol	$\pm 25\%$	LH	± 2 SD
Alpha-fetoprotein	± 3 SD	Lithium	± 0.3 mmol/L or 20% *
Alkaline Phosphatase	$\pm 30\%$	Magnesium	$\pm 25\%$
ALT (SGPT)	$\pm 20\%$	Myoglobin	± 2 SD or 30% *
Ammonia	± 2 SD or 5% *	NT-proBNP	± 2 SD or 25% *
Amylase	$\pm 30\%$	Parathyroid Hormone, Intact	± 2 SD
Apolipoprotein A1	$\pm 30\%$	Phenobarbital	$\pm 20\%$
Apolipoprotein B	$\pm 25\%$	Phenytoin	$\pm 25\%$
AST (SGOT)	$\pm 20\%$	Phosphorus	± 0.3 mg/dL or 10.7% *
B-Type Natriuretic Peptide (BNP)	± 2 SD or 25% *	Potassium	± 0.5 mmol/L
Beta-2 Microglobulin	± 3 SD	Progesterone	$\pm 30\%$
Bilirubin, Direct	± 2 SD	Prolactin	± 3.6 ng/mL or 30% *
Bilirubin, Total	± 0.4 mg/dL or 20% *	Protein, Total (Serum)	$\pm 10\%$
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *	Protein, Total (Urine)	$\pm 44\%$
C-Peptide	± 2 SD	PSA	± 0.9 ng/mL or 30% *
CA 125	± 2 SD or 30% *	PSA, Free	± 0.9 ng/mL or 30% *
CA 15-3	± 2 SD or 30% *	pCO ₂	± 5 mmHg or 8% *
CA 19-9	± 2 SD or 30% *	pH	± 0.04
CA 27/29	± 2 SD or 30% *	pO ₂	± 3 SD
Calcium	± 1.0 mg/dL	Salicylate	$\pm 20\%$
Calcium, Ionized	± 3 SD	SHBG	± 3 SD
Carbamazepine	$\pm 25\%$	Sodium	± 4.0 mmol/L
CEA	± 1.2 ng/mL 30%	T ₃ Uptake (% Uptake)	± 3 SD
Chloride	$\pm 5\%$	T3, Free	± 3 SD
Cholesterol	$\pm 10\%$	T4, Free	± 3 SD
CK-MB (Quantitative)	± 3 SD	tCO ₂	$\pm 20\%$
CO ₂	$\pm 20\%$	Testosterone	$\pm 30\%$
Cortisol	$\pm 25\%$	Testosterone, Bioavailable	± 3 SD
Creatine Kinase	$\pm 30\%$	Testosterone, Free	± 3 SD
Creatinine (Serum)	± 0.3 mg/dL or 15% *	Theophylline	$\pm 25\%$
Creatinine (Urine)	$\pm 17\%$	Thyroglobulin	± 2 SD
D-Dimer	± 2 SD or 30% *	Thyroglobulin Antibody	± 2 SD
DHEA-S	$\pm 30\%$	Thyroid Peroxidase Antibody (TPO)	± 2 SD
Digoxin	± 0.2 mg/dL or 20% *	Thyroxine, Total T ₄	± 1.0 µg/dL or 20% *
Estradiol	± 2 SD	TIBC	± 2 SD or 20% *
Ferritin	$\pm 30\%$	Transferrin	$\pm 10\%$
Folate	± 0.9 ng/mL or 30%*	Triglyceride	$\pm 25\%$
FSH	$\pm 25\%$	Triiodothyronine, Total T ₃	± 3 SD
Gentamicin	$\pm 25\%$	Troponin I	± 2 SD or 30% *
GGT	± 2 SD or 20% *	Troponin T	± 2 SD or 30% *
Glucose, Serum	± 6 mg/dL or 10% *	TSH	± 3 SD
Glucose, Whole Blood	± 12 mg/dL or 20% *	UIBC	± 2 SD or 20% *
Glycohemoglobin	$\pm 6\%$	Urea Nitrogen	± 2.0 mg/dL or 9% *
HDL Cholesterol	$\pm 30\%$	Uric Acid	$\pm 17\%$
HCG, Serum—Qualitative	80% Consensus	Urine Drug Screen	80% Consensus
HCG, Serum—Quantitative	± 3 SD	Valproic Acid	$\pm 25\%$
Hematocrit	$\pm 6\%$	Vancomycin	$\pm 25\%$
Hemoglobin	$\pm 7\%$	Vitamin B ₁₂	$\pm 30\%$
Homocysteine	$\pm 25\%$	Vitamin D	± 2 SD
Insulin	± 2 SD	Troponin I	± 2 SD or 30% *
Iron	$\pm 20\%$	Troponin T	$\pm 30\%$
Lactate Dehydrogenase	$\pm 20\%$		

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	97	167.3	0.6	0.4	167	163 - 172	97	145.4	0.6	0.4	145	141 - 150
All i-STAT Instruments	97	167.3	0.6	0.4	167	163 - 172	97	145.4	0.6	0.4	145	141 - 150
i-STAT - moderate	11	167.4	0.7	0.4	167	163 - 172	11	145.4	0.8	0.6	146	141 - 150
i-STAT - waived	86	167.3	0.6	0.4	167	163 - 172	86	145.4	0.5	0.4	145	141 - 150
	Specimen IST-3						Specimen IST-4					
	<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	87	126.5	0.6	0.5	126	122 - 131	86	168.1	0.7	0.4	168	164 - 173
All i-STAT Instruments	87	126.5	0.6	0.5	126	122 - 131	86	168.1	0.7	0.4	168	164 - 173
i-STAT - moderate	11	126.5	0.5	0.4	127	122 - 131	11	168.4	0.7	0.4	168	164 - 173
i-STAT - waived	76	126.5	0.6	0.5	126	122 - 131	75	168.1	0.7	0.4	168	164 - 173
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	86	154.8	0.5	0.3	155	150 - 159						
All i-STAT Instruments	86	154.8	0.5	0.3	155	150 - 159						
i-STAT - moderate	11	154.5	0.7	0.4	154	150 - 159						
i-STAT - waived	75	154.8	0.5	0.3	155	150 - 159						

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	6.83	0.06	0.8	6.8	6.3 - 7.4	95	4.10	0.01	0.0	4.1	3.6 - 4.6
All i-STAT Instruments	99	6.83	0.06	0.8	6.8	6.3 - 7.4	95	4.10	0.01	0.0	4.1	3.6 - 4.6
i-STAT - moderate	11	6.84	0.07	1.0	6.8	6.3 - 7.4	11	4.10	0.01	0.0	4.1	3.6 - 4.6
i-STAT - waived	88	6.83	0.06	0.8	6.8	6.3 - 7.4	84	4.10	0.01	0.0	4.1	3.6 - 4.6
	Specimen IST-3						Specimen IST-4					
	<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	86	2.73	0.05	1.7	2.7	2.2 - 3.3	86	6.61	0.03	0.5	6.6	6.1 - 7.2
All i-STAT Instruments	86	2.73	0.05	1.7	2.7	2.2 - 3.3	86	6.61	0.03	0.5	6.6	6.1 - 7.2
i-STAT - moderate	11	2.73	0.05	1.7	2.7	2.2 - 3.3	10	6.60	0.01	0.0	6.6	6.1 - 7.1
i-STAT - waived	75	2.73	0.05	1.7	2.7	2.2 - 3.3	75	6.61	0.03	0.5	6.6	6.1 - 7.2
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	81	4.50	0.01	0.0	4.5	4.0 - 5.0						
All i-STAT Instruments	81	4.50	0.01	0.0	4.5	4.0 - 5.0						
i-STAT - moderate	11	4.50	0.01	0.0	4.5	4.0 - 5.0						
i-STAT - waived	70	4.50	0.01	0.0	4.5	4.0 - 5.0						

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	96	108.2	0.8	0.7	108	102 - 114	97	80.9	0.7	0.9	81	76 - 85
All i-STAT Instruments	96	108.2	0.8	0.7	108	102 - 114	97	80.9	0.7	0.9	81	76 - 85
i-STAT - moderate	11	108.2	1.2	1.1	108	102 - 114	11	81.1	0.9	1.2	81	77 - 86
i-STAT - waived	85	108.2	0.7	0.7	108	102 - 114	86	80.9	0.7	0.9	81	76 - 85
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<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	85	75.0	0.8	1.1	75	71 - 79	84	117.2	0.7	0.6	117	111 - 124
All i-STAT Instruments	85	75.0	0.8	1.1	75	71 - 79	84	117.2	0.7	0.6	117	111 - 124
i-STAT - moderate	11	75.0	0.8	1.0	75	71 - 79	11	116.9	0.7	0.6	117	111 - 123
i-STAT - waived	74	75.0	0.8	1.1	75	71 - 79	73	117.2	0.7	0.6	117	111 - 124
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	86	98.6	0.8	0.8	99	93 - 104						
All i-STAT Instruments	86	98.6	0.8	0.8	99	93 - 104						
i-STAT - moderate	11	98.8	0.6	0.6	99	93 - 104						
i-STAT - waived	75	98.6	0.9	0.9	98	93 - 104						

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	94	26.1	0.8	3.0	26	20 - 32	94	22.2	0.8	3.5	22	17 - 27
All i-STAT Instruments	94	26.1	0.8	3.0	26	20 - 32	94	22.2	0.8	3.5	22	17 - 27
i-STAT - moderate	10	26.0	0.9	3.6	26	20 - 32	10	22.5	1.1	4.8	23	18 - 27
i-STAT - waived	84	26.1	0.8	3.0	26	20 - 32	84	22.2	0.7	3.3	22	17 - 27
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<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	82	24.6	0.8	3.3	25	19 - 30	82	23.5	0.9	4.0	24	18 - 29
All i-STAT Instruments	82	24.6	0.8	3.3	25	19 - 30	82	23.5	0.9	4.0	24	18 - 29
i-STAT - moderate	10	24.1	0.7	3.1	24	19 - 29	10	23.1	1.4	5.9	24	18 - 28
i-STAT - waived	72	24.7	0.8	3.2	25	19 - 30	72	23.5	0.9	3.7	24	18 - 29
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	82	23.7	0.8	3.4	24	18 - 29						
All i-STAT Instruments	82	23.7	0.8	3.4	24	18 - 29						
i-STAT - moderate	10	23.4	1.0	4.1	24	18 - 29						
i-STAT - waived	72	23.8	0.8	3.3	24	19 - 29						

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	97	18.2	0.4	2.4	18	16 - 21	95	37.2	0.6	1.7	37	33 - 41
All i-STAT Instruments	97	18.2	0.4	2.4	18	16 - 21	95	37.2	0.6	1.7	37	33 - 41
i-STAT - moderate	11	18.4	0.5	2.7	18	16 - 21	11	37.2	0.9	2.4	37	33 - 41
i-STAT - waived	86	18.2	0.4	2.4	18	16 - 21	85	37.2	0.6	1.7	37	33 - 41
	Specimen IST-3						Specimen IST-4					
	<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	85	67.6	1.3	1.9	68	61 - 74	86	46.8	0.9	1.8	47	42 - 52
All i-STAT Instruments	85	67.6	1.3	1.9	68	61 - 74	86	46.8	0.9	1.8	47	42 - 52
i-STAT - moderate	11	68.0	0.9	1.3	68	61 - 75	11	47.1	1.0	2.2	47	42 - 52
i-STAT - waived	74	67.5	1.3	2.0	67	61 - 74	75	46.8	0.8	1.8	47	42 - 51
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	86	58.0	1.0	1.7	58	52 - 64						
All i-STAT Instruments	86	58.0	1.0	1.7	58	52 - 64						
i-STAT - moderate	11	58.5	1.1	1.9	59	53 - 64						
i-STAT - waived	75	57.9	1.0	1.7	58	52 - 64						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	95	66.2	1.1	1.7	66	59 - 73	94	123.4	1.0	0.8	123	111 - 136
All i-STAT Instruments	95	66.2	1.1	1.7	66	59 - 73	94	123.4	1.0	0.8	123	111 - 136
i-STAT - moderate	11	66.5	0.9	1.4	66	59 - 74	11	123.9	1.5	1.2	123	111 - 137
i-STAT - waived	84	66.1	1.1	1.7	66	59 - 73	84	123.4	1.0	0.8	123	111 - 136
	Specimen IST-3						Specimen IST-4					
	<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	84	181.8	1.1	0.6	182	163 - 201	85	232.8	2.0	0.9	233	209 - 257
All i-STAT Instruments	84	181.8	1.1	0.6	182	163 - 201	85	232.8	2.0	0.9	233	209 - 257
i-STAT - moderate	11	181.6	0.8	0.4	181	163 - 200	11	233.1	2.6	1.1	232	209 - 257
i-STAT - waived	73	181.9	1.1	0.6	182	163 - 201	75	232.9	2.1	0.9	233	209 - 257
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	84	186.7	1.3	0.7	187	168 - 206						
All i-STAT Instruments	84	186.7	1.3	0.7	187	168 - 206						
i-STAT - moderate	11	187.1	2.5	1.3	187	168 - 206						
i-STAT - waived	74	186.7	1.3	0.7	187	168 - 206						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	37.8	0.7	1.8	38	35 - 41	15	35.7	0.7	2.0	36	33 - 38
All i-STAT Instruments	15	37.8	0.7	1.8	38	35 - 41	15	35.7	0.7	2.0	36	33 - 38
i-STAT - waived	14	37.8	0.7	1.9	38	35 - 41	14	35.7	0.7	2.0	36	33 - 38
	Specimen IST-3						Specimen IST-4					
	<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	20.9	0.4	1.8	21	19 - 23	11	30.0	0.1	0.0	30	28 - 32
All i-STAT Instruments	11	20.9	0.4	1.8	21	19 - 23	11	30.0	0.1	0.0	30	28 - 32
i-STAT - waived	10	20.8	0.4	2.0	21	19 - 23	10	30.0	0.1	0.0	30	28 - 32
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	32.9	0.4	1.2	33	30 - 35						
All i-STAT Instruments	11	32.9	0.4	1.2	33	30 - 35						
i-STAT - waived	10	32.8	0.4	1.2	33	30 - 35						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<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	12.85	0.23	1.8	12.9	11.9 - 13.8	15	12.13	0.24	2.0	12.2	11.2 - 13.0
All i-STAT Instruments	15	12.85	0.23	1.8	12.9	11.9 - 13.8	15	12.13	0.24	2.0	12.2	11.2 - 13.0
i-STAT - waived	14	12.85	0.24	1.9	12.9	11.9 - 13.8	14	12.13	0.25	2.0	12.2	11.2 - 13.0
	Specimen IST-3						Specimen IST-4					
	<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	7.06	0.11	1.6	7.1	6.5 - 7.6	11	10.20	0.01	0.0	10.2	9.4 - 11.0
All i-STAT Instruments	11	7.06	0.11	1.6	7.1	6.5 - 7.6	11	10.20	0.01	0.0	10.2	9.4 - 11.0
i-STAT - waived	10	7.05	0.12	1.7	7.1	6.5 - 7.6	10	10.20	0.01	0.0	10.2	9.4 - 11.0
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	11.16	0.11	1.0	11.2	10.3 - 12.0						
All i-STAT Instruments	11	11.16	0.11	1.0	11.2	10.3 - 12.0						
i-STAT - waived	10	11.15	0.12	1.1	11.2	10.3 - 12.0						

Creatinine (mg/dL)

Specimen IST-1							Specimen IST-2					
<u>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	111	0.77	0.05	6.3	0.8	0.4 - 1.1	111	1.61	0.05	3.0	1.6	1.3 - 2.0
All i-STAT Instruments	111	0.77	0.05	6.3	0.8	0.4 - 1.1	111	1.61	0.05	3.0	1.6	1.3 - 2.0
i-STAT - moderate	12	0.78	0.05	5.8	0.8	0.4 - 1.1	12	1.60	0.07	4.6	1.6	1.3 - 1.9
i-STAT - waived	99	0.77	0.05	6.3	0.8	0.4 - 1.1	99	1.62	0.04	2.8	1.6	1.3 - 2.0
Specimen IST-3							Specimen IST-4					
All Method	87	3.78	0.10	2.6	3.8	3.2 - 4.4	87	2.57	0.08	3.1	2.6	2.1 - 3.0
All i-STAT Instruments	87	3.78	0.10	2.6	3.8	3.2 - 4.4	87	2.57	0.08	3.1	2.6	2.1 - 3.0
i-STAT - moderate	12	3.75	0.11	2.9	3.8	3.1 - 4.4	12	2.55	0.11	4.3	2.6	2.1 - 3.0
i-STAT - waived	75	3.78	0.10	2.6	3.8	3.2 - 4.4	75	2.57	0.08	2.9	2.6	2.1 - 3.0
Specimen IST-5												
All Method	87	4.66	0.12	2.6	4.7	3.9 - 5.4						
All i-STAT Instruments	87	4.66	0.12	2.6	4.7	3.9 - 5.4						
i-STAT - moderate	12	4.63	0.15	3.2	4.7	3.9 - 5.4						
i-STAT - waived	75	4.66	0.12	2.5	4.7	3.9 - 5.4						

Ionized Calcium (mmol/L)

Specimen IST-1							Specimen IST-2					
<u>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	89	0.896	0.007	0.8	0.90	0.87 - 0.92	88	1.429	0.013	0.9	1.43	1.38 - 1.47
All i-STAT Instruments	89	0.896	0.007	0.8	0.90	0.87 - 0.92	88	1.429	0.013	0.9	1.43	1.38 - 1.47
i-STAT - waived	81	0.896	0.007	0.8	0.90	0.87 - 0.92	80	1.429	0.013	0.9	1.43	1.38 - 1.47
Specimen IST-3							Specimen IST-4					
All Method	81	2.103	0.021	1.0	2.10	2.03 - 2.17	80	0.582	0.006	1.1	0.58	0.56 - 0.61
All i-STAT Instruments	81	2.103	0.021	1.0	2.10	2.03 - 2.17	80	0.582	0.006	1.1	0.58	0.56 - 0.61
i-STAT - waived	73	2.103	0.022	1.0	2.10	2.03 - 2.17	72	0.582	0.006	1.1	0.58	0.56 - 0.61
Specimen IST-5												
All Method	81	1.009	0.011	1.1	1.01	0.97 - 1.05						
All i-STAT Instruments	81	1.009	0.011	1.1	1.01	0.97 - 1.05						
i-STAT - waived	73	1.010	0.011	1.1	1.01	0.97 - 1.05						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	280	5.12	0.61	12.0	5.4	4.6 - 5.7	277	2.83	0.19	6.8	2.8	2.5 - 3.2
All Bromocresol Green Reagents	189	5.49	0.22	4.1	5.5	4.9 - 6.1	188	2.93	0.15	5.0	2.9	2.6 - 3.3
All Bromocresol Purple Reagents	87	4.29	0.22	5.1	4.3	3.8 - 4.8	87	2.61	0.07	2.5	2.6	2.3 - 2.9
Abaxis Piccolo												
Abaxis Piccolo - waived	26	4.04	0.09	2.2	4.0	3.6 - 4.5	26	2.63	0.07	2.6	2.6	2.3 - 2.9
All Chemistry Instruments	34	4.05	0.10	2.4	4.0	3.6 - 4.5	34	2.64	0.07	2.5	2.6	2.3 - 3.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	5.36	0.12	2.3	5.4	4.8 - 5.9	30	2.94	0.07	2.5	3.0	2.6 - 3.3
Beckman AU												
Beckman AU systems	34	5.60	0.14	2.4	5.6	5.0 - 6.2	34	2.90	0.06	2.2	2.9	2.6 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.26	0.13	2.5	5.2	4.7 - 5.8	20	3.00	0.08	2.8	3.0	2.6 - 3.3
Roche Integra												
Roche Integra	19	5.66	0.11	1.9	5.7	5.0 - 6.3	19	3.07	0.08	2.6	3.1	2.7 - 3.4
Siemens Healthcare												
Siemens Dimension	44	4.42	0.08	1.7	4.4	3.9 - 4.9	45	2.59	0.05	2.1	2.6	2.3 - 2.9
All Chemistry Instruments	45	4.42	0.08	1.7	4.4	3.9 - 4.9	46	2.59	0.05	2.1	2.6	2.3 - 2.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	5.38	0.25	4.6	5.3	4.8 - 6.0	13	2.98	0.14	4.8	3.0	2.6 - 3.3
All Chemistry Instruments	14	5.28	0.44	8.3	5.3	4.7 - 5.9	14	2.96	0.16	5.3	3.0	2.6 - 3.3
VITROS												
VITROS 250,350,500,700,750,950	37	5.50	0.20	3.6	5.5	4.9 - 6.1	36	2.74	0.09	3.3	2.7	2.4 - 3.1
All Chemistry Instruments	42	5.50	0.23	4.2	5.5	4.9 - 6.1	40	2.74	0.10	3.5	2.7	2.4 - 3.1

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	253	4.44	0.16	3.6	4.4	3.9 - 4.9	256	3.81	0.33	8.8	3.9	3.4 - 4.2
All Bromocresol Green Reagents	189	4.42	0.17	3.9	4.4	3.9 - 4.9	190	3.98	0.16	4.0	4.0	3.5 - 4.4
All Bromocresol Purple Reagents	62	4.49	0.08	1.9	4.5	4.0 - 5.0	63	3.29	0.09	2.7	3.3	2.9 - 3.7
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	4.4	4.0 - 5.0	3	-	-	-	3.2	2.8 - 3.6
All Chemistry Instruments	10	4.51	0.11	2.4	4.5	4.0 - 5.0	10	3.20	0.08	2.6	3.2	2.8 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	4.30	0.13	3.0	4.3	3.8 - 4.8	29	3.89	0.09	2.3	3.9	3.5 - 4.3
Beckman AU												
Beckman AU systems	34	4.43	0.13	2.9	4.4	3.9 - 4.9	36	4.00	0.14	3.4	4.0	3.6 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	4.35	0.09	2.2	4.3	3.9 - 4.8	20	3.92	0.10	2.6	3.9	3.5 - 4.4
Roche Integra												
Roche Integra	20	4.57	0.13	2.8	4.6	4.1 - 5.1	20	4.16	0.12	2.9	4.2	3.7 - 4.6
Siemens Healthcare												
Siemens Dimension	44	4.49	0.08	1.8	4.5	4.0 - 5.0	45	3.30	0.07	2.1	3.3	2.9 - 3.7
All Chemistry Instruments	45	4.49	0.08	1.8	4.5	4.0 - 5.0	46	3.30	0.07	2.1	3.3	2.9 - 3.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	4.29	0.16	3.7	4.3	3.8 - 4.8	13	3.95	0.16	4.1	4.0	3.5 - 4.4
VITROS												
VITROS 250,350,500,700,750,950	37	4.52	0.18	4.0	4.6	4.0 - 5.0	37	3.92	0.15	3.9	4.0	3.5 - 4.4
All Chemistry Instruments	41	4.51	0.20	4.4	4.5	4.0 - 5.0	42	3.92	0.19	4.9	4.0	3.5 - 4.4

Albumin (g/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	255	4.13	0.39	9.4	4.2	3.7 - 4.6
All Bromocresol Green Reagents	190	4.33	0.17	3.9	4.3	3.8 - 4.8
All Bromocresol Purple Reagents	63	3.51	0.11	3.1	3.5	3.1 - 3.9
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.3	3.0 - 3.7
All Chemistry Instruments	10	3.36	0.08	2.5	3.3	3.0 - 3.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	4.22	0.09	2.2	4.2	3.7 - 4.7
Beckman AU						
Beckman AU systems	36	4.32	0.14	3.3	4.3	3.8 - 4.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.20	0.09	2.2	4.2	3.7 - 4.7
Roche Integra						
Roche Integra	20	4.49	0.13	2.9	4.5	4.0 - 5.0
Siemens Healthcare						
Siemens Dimension	44	3.53	0.07	1.9	3.5	3.1 - 3.9
All Chemistry Instruments	45	3.52	0.07	1.9	3.5	3.1 - 3.9
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	4.29	0.12	2.8	4.3	3.8 - 4.8
VITROS						
VITROS 250,350,500,700,750,950	36	4.38	0.16	3.7	4.4	3.9 - 4.9
All Chemistry Instruments	40	4.39	0.17	3.8	4.4	3.9 - 4.9

Bilirubin, Direct (mg/dL)

Specimen CH-1							Specimen CH-2					
<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	170	1.35	0.51	37.8	1.4	0.3 - 2.4	171	0.42	0.17	41.0	0.4	0.0 - 0.8
All Alfa Wassermann Reagents	22	1.70	0.19	11.3	1.7	1.3 - 2.1	22	0.58	0.08	13.7	0.6	0.4 - 0.8
All Roche Integra/c111/c301/c501 Reagents	20	0.97	0.15	15.7	1.0	0.6 - 1.3	20	0.28	0.04	16.2	0.3	0.1 - 0.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	1.70	0.19	11.3	1.7	1.3 - 2.1	22	0.58	0.08	13.7	0.6	0.4 - 0.8
Beckman AU												
Beckman AU systems	28	1.30	0.19	14.5	1.4	0.9 - 1.7	28	0.44	0.06	14.3	0.4	0.3 - 0.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	1.58	0.21	13.4	1.7	1.1 - 2.1	12	0.48	0.08	17.3	0.5	0.3 - 0.7
Roche Integra												
Roche Integra	14	1.05	0.09	8.1	1.1	0.8 - 1.3	14	0.29	0.04	12.7	0.3	0.2 - 0.4
Siemens Healthcare												
Siemens Dimension	31	0.94	0.13	14.2	0.9	0.6 - 1.3	32	0.26	0.06	21.1	0.3	0.1 - 0.4
All Chemistry Instruments	32	0.94	0.13	14.0	0.9	0.6 - 1.3	33	0.26	0.05	20.8	0.3	0.1 - 0.4
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	23	1.78	0.90	50.8	2.1	0.0 - 3.6	23	0.44	0.26	60.1	0.5	0.0 - 1.0
All Chemistry Instruments	26	1.83	0.86	47.0	2.1	0.1 - 3.6	26	0.45	0.25	55.5	0.5	0.0 - 1.0

Specimen CH-3							Specimen CH-4					
<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	162	0.04	0.05	125.0	0.0	0.0 - 0.2	169	0.79	0.29	37.3	0.8	0.2 - 1.4
All Alfa Wassermann Reagents	21	0.09	0.04	41.8	0.1	0.0 - 0.2	22	1.08	0.13	11.6	1.1	0.8 - 1.4
All Roche Integra/c111/c301/c501 Reagents	20	0.05	0.07	137.6	0.0	0.0 - 0.2	20	0.55	0.08	15.0	0.6	0.3 - 0.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	0.09	0.04	41.8	0.1	0.0 - 0.2	22	1.08	0.13	11.6	1.1	0.8 - 1.4
Beckman AU												
Beckman AU systems	27	0.00	0.01	0.0	0.0	0.0 - 0.1	28	0.80	0.10	12.7	0.8	0.5 - 1.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	0.02	0.04	222.5	0.0	0.0 - 0.1	12	0.97	0.14	14.8	1.0	0.6 - 1.3
Roche Integra												
Roche Integra	14	0.02	0.04	198.7	0.0	0.0 - 0.2	14	0.59	0.07	11.3	0.6	0.4 - 0.8
Siemens Healthcare												
Siemens Dimension	30	0.06	0.05	83.0	0.1	0.0 - 0.2	32	0.53	0.07	12.2	0.5	0.4 - 0.7
All Chemistry Instruments	31	0.06	0.05	80.8	0.1	0.0 - 0.2	33	0.54	0.07	12.2	0.5	0.4 - 0.7
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	20	0.08	0.11	138.1	0.1	0.0 - 0.4	23	0.95	0.65	68.3	1.0	0.0 - 2.3
All Chemistry Instruments	21	0.05	0.06	126.3	0.0	0.0 - 0.2	25	0.89	0.49	55.3	1.0	0.0 - 1.9

Bilirubin, Direct (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	170	0.94	0.34	35.9	1.0	0.2 - 1.7
All Alfa Wassermann Reagents	22	1.25	0.14	10.9	1.2	0.9 - 1.6
All Roche Integra/c111/c301/c501 Reagents	20	0.67	0.10	15.4	0.7	0.4 - 0.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	22	1.25	0.14	10.9	1.2	0.9 - 1.6
Beckman AU						
Beckman AU systems	28	0.94	0.12	12.4	0.9	0.7 - 1.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	1.11	0.16	14.6	1.1	0.7 - 1.5
Roche Integra						
Roche Integra	14	0.72	0.07	9.7	0.7	0.5 - 0.9
Siemens Healthcare						
Siemens Dimension	32	0.67	0.09	13.4	0.7	0.4 - 0.9
All Chemistry Instruments	33	0.67	0.09	13.2	0.7	0.4 - 0.9
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	23	1.06	0.62	58.6	1.2	0.0 - 2.3
All Chemistry Instruments	26	1.09	0.59	54.0	1.3	0.0 - 2.3

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	279	5.13	0.54	10.5	5.1	4.1 - 6.2	279	1.32	0.15	11.7	1.3	0.9 - 1.8
All Alfa Wassermann Reagents	38	6.09	0.30	4.9	6.1	4.8 - 7.4	38	1.56	0.08	5.1	1.6	1.1 - 2.0
All Horiba Pentra Reagents	21	5.23	0.42	8.1	5.3	4.1 - 6.3	21	1.30	0.14	10.4	1.3	0.9 - 1.8
All Roche T. bili Special Reagents	22	4.81	0.31	6.5	4.9	3.8 - 5.8	22	1.16	0.08	6.8	1.2	0.7 - 1.6
All Vital Diagnostics Reagents	15	5.11	0.31	6.0	5.0	4.0 - 6.2	15	1.15	0.14	11.8	1.1	0.7 - 1.6
Abaxis Piccolo												
Abaxis Piccolo - waived	26	4.76	0.33	7.0	4.8	3.8 - 5.8	26	1.32	0.10	7.7	1.3	0.9 - 1.8
All Chemistry Instruments	34	4.79	0.31	6.4	4.9	3.8 - 5.8	34	1.33	0.09	7.0	1.4	0.9 - 1.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	6.11	0.29	4.8	6.1	4.8 - 7.4	37	1.56	0.08	5.1	1.6	1.1 - 2.0
Beckman AU												
Beckman AU systems	34	5.06	0.31	6.1	5.1	4.0 - 6.1	34	1.39	0.08	5.7	1.4	0.9 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.25	0.43	8.1	5.3	4.2 - 6.3	20	1.32	0.13	10.0	1.3	0.9 - 1.8
Roche Integra-T. bili Gen.3												
Roche Integra	10	4.70	0.24	5.1	4.8	3.7 - 5.7	10	1.15	0.07	6.1	1.2	0.7 - 1.6
All Chemistry Instruments	11	4.74	0.26	5.4	4.8	3.7 - 5.7	11	1.15	0.07	6.0	1.2	0.7 - 1.6
Siemens Healthcare												
Siemens Dimension	44	4.85	0.37	7.7	4.9	3.8 - 5.9	44	1.25	0.09	7.0	1.2	0.8 - 1.7
All Chemistry Instruments	45	4.85	0.37	7.6	4.9	3.8 - 5.9	45	1.25	0.09	7.0	1.2	0.8 - 1.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	5.14	0.32	6.2	5.1	4.1 - 6.2	13	1.15	0.08	6.8	1.1	0.7 - 1.6
All Chemistry Instruments	14	5.12	0.31	6.1	5.1	4.0 - 6.2	14	1.17	0.12	10.3	1.2	0.7 - 1.6
VITROS - TBIL												
VITROS 250,350,500,700,750,950	35	5.11	0.34	6.7	5.1	4.0 - 6.2	35	1.35	0.11	8.3	1.3	0.9 - 1.8
All Chemistry Instruments	39	5.08	0.28	5.5	5.1	4.0 - 6.1	40	1.34	0.11	8.4	1.3	0.9 - 1.8

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	244	0.10	0.07	65.1	0.1	0.0 - 0.6	255	2.88	0.29	10.0	2.9	2.3 - 3.5
All Alfa Wassermann Reagents	37	0.14	0.05	35.7	0.1	0.0 - 0.6	38	3.34	0.15	4.4	3.3	2.6 - 4.1
All Horiba Pentra Reagents	19	0.07	0.07	98.1	0.1	0.0 - 0.5	21	2.90	0.25	8.8	2.9	2.3 - 3.5
All Roche T. bili Special Reagents	22	0.08	0.09	104.2	0.1	0.0 - 0.5	22	2.61	0.14	5.3	2.6	2.0 - 3.2
All Vital Diagnostics Reagents	14	0.09	0.11	128.3	0.1	0.0 - 0.5	14	2.66	0.16	6.0	2.7	2.1 - 3.2
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	0.2	0.0 - 0.6	3	-	-	-	2.9	2.2 - 3.4
All Chemistry Instruments	10	0.20	0.05	23.6	0.2	0.0 - 0.6	10	2.76	0.12	4.3	2.8	2.2 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	36	0.14	0.05	35.6	0.1	0.0 - 0.6	37	3.34	0.14	4.3	3.3	2.6 - 4.1
Beckman AU												
Beckman AU systems	34	0.10	0.01	0.0	0.1	0.0 - 0.5	35	2.90	0.18	6.3	2.9	2.3 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	0.06	0.06	99.4	0.1	0.0 - 0.5	20	2.92	0.24	8.4	3.0	2.3 - 3.6
Roche Integra-T. bili Gen.3												
Roche Integra	10	0.04	0.07	174.8	0.0	0.0 - 0.5	10	2.58	0.12	4.8	2.6	2.0 - 3.1
All Chemistry Instruments	11	0.05	0.08	150.4	0.0	0.0 - 0.5	11	2.59	0.12	4.7	2.6	2.0 - 3.2
Siemens Healthcare												
Siemens Dimension	38	0.08	0.06	77.3	0.1	0.0 - 0.5	44	2.73	0.19	7.0	2.7	2.1 - 3.3
All Chemistry Instruments	39	0.08	0.06	75.8	0.1	0.0 - 0.5	45	2.73	0.19	6.9	2.7	2.1 - 3.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	0.06	0.07	105.7	0.1	0.0 - 0.5	13	2.67	0.17	6.2	2.7	2.1 - 3.3
VITROS - TBIL												
VITROS 250,350,500,700,750,950	33	0.12	0.04	33.1	0.1	0.0 - 0.6	34	2.92	0.16	5.5	3.0	2.3 - 3.6
All Chemistry Instruments	38	0.12	0.04	31.9	0.1	0.0 - 0.6	39	2.92	0.15	5.2	2.9	2.3 - 3.6

Bilirubin, Total (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	253	3.42	0.34	10.1	3.4	2.7 - 4.2
All Alfa Wassermann Reagents	37	3.99	0.17	4.4	4.0	3.1 - 4.8
All Horiba Pentra Reagents	21	3.46	0.29	8.4	3.5	2.7 - 4.2
All Roche T. bili Special Reagents	22	3.08	0.17	5.5	3.1	2.4 - 3.7
All Vital Diagnostics Reagents	14	3.24	0.23	7.1	3.2	2.5 - 3.9
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.2	2.5 - 3.9
All Chemistry Instruments	10	3.20	0.12	3.6	3.2	2.5 - 3.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	36	4.00	0.17	4.2	4.0	3.2 - 4.8
Beckman AU						
Beckman AU systems	35	3.40	0.20	5.9	3.4	2.7 - 4.1
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	3.48	0.29	8.3	3.5	2.7 - 4.2
Roche Integra-T. bili Gen.3						
Roche Integra	10	3.04	0.13	4.2	3.1	2.4 - 3.7
All Chemistry Instruments	11	3.05	0.13	4.2	3.1	2.4 - 3.7
Siemens Healthcare						
Siemens Dimension	44	3.26	0.23	7.1	3.3	2.6 - 4.0
All Chemistry Instruments	45	3.26	0.23	7.0	3.3	2.6 - 4.0
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	3.22	0.22	6.7	3.2	2.5 - 3.9
VITROS - TBIL						
VITROS 250,350,500,700,750,950	34	3.48	0.19	5.5	3.5	2.7 - 4.2
All Chemistry Instruments	39	3.48	0.18	5.2	3.5	2.7 - 4.2

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	282	13.10	0.44	3.3	13.1	12.1 - 14.2	283	8.37	0.26	3.1	8.4	7.3 - 9.4
All Arsenazo Methods	145	12.98	0.43	3.3	13.0	11.9 - 14.0	145	8.43	0.25	3.0	8.4	7.4 - 9.5
All CPC Methods	131	13.25	0.41	3.1	13.3	12.2 - 14.3	131	8.32	0.25	3.0	8.4	7.3 - 9.4
Abaxis Piccolo												
Abaxis Piccolo - waived	26	12.58	0.26	2.1	12.6	11.5 - 13.6	26	8.52	0.14	1.6	8.5	7.5 - 9.6
All Chemistry Instruments	33	12.61	0.26	2.1	12.6	11.6 - 13.7	33	8.52	0.16	1.9	8.5	7.5 - 9.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	38	12.85	0.33	2.6	12.8	11.8 - 13.9	39	8.61	0.24	2.8	8.6	7.6 - 9.7
Beckman AU												
Beckman AU systems	36	13.46	0.26	1.9	13.5	12.4 - 14.5	36	8.44	0.18	2.2	8.5	7.4 - 9.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	13.31	0.34	2.6	13.4	12.3 - 14.4	17	8.36	0.24	2.8	8.4	7.3 - 9.4
Roche Integra												
Roche Integra	20	13.27	0.29	2.2	13.3	12.2 - 14.3	20	8.43	0.21	2.5	8.5	7.4 - 9.5
Siemens Healthcare												
Siemens Dimension	45	12.97	0.40	3.1	13.0	11.9 - 14.0	45	8.12	0.21	2.6	8.1	7.1 - 9.2
All Chemistry Instruments	47	12.95	0.40	3.1	12.9	11.9 - 14.0	47	8.12	0.21	2.5	8.1	7.1 - 9.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	13.07	0.31	2.4	13.1	12.0 - 14.1	13	8.10	0.19	2.4	8.1	7.1 - 9.1
All Chemistry Instruments	14	13.06	0.30	2.3	13.1	12.0 - 14.1	14	8.13	0.21	2.6	8.1	7.1 - 9.2
VITROS												
VITROS 250,350,500,700,750,950	36	13.33	0.27	2.0	13.3	12.3 - 14.4	36	8.33	0.17	2.0	8.3	7.3 - 9.4
All Chemistry Instruments	41	13.30	0.33	2.5	13.3	12.3 - 14.3	40	8.31	0.17	2.1	8.3	7.3 - 9.4

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	260	5.60	0.30	5.4	5.6	4.5 - 6.6	258	10.22	0.30	2.9	10.2	9.2 - 11.3
All Arsenazo Methods	122	5.66	0.32	5.7	5.7	4.6 - 6.7	120	10.25	0.25	2.4	10.2	9.2 - 11.3
All CPC Methods	131	5.54	0.27	4.8	5.5	4.5 - 6.6	132	10.19	0.32	3.2	10.2	9.1 - 11.2
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	5.9	4.6 - 6.7	3	-	-	-	10.2	9.2 - 11.3
All Chemistry Instruments	9	-	-	-	5.8	4.7 - 6.8	9	-	-	-	10.2	9.1 - 11.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	38	5.97	0.15	2.6	6.0	4.9 - 7.0	39	10.34	0.26	2.5	10.3	9.3 - 11.4
Beckman AU												
Beckman AU systems	37	5.85	0.14	2.5	5.8	4.8 - 6.9	37	10.36	0.25	2.4	10.4	9.3 - 11.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	5.41	0.19	3.5	5.4	4.4 - 6.5	17	10.26	0.31	3.0	10.3	9.2 - 11.3
Roche Integra												
Roche Integra	20	5.50	0.15	2.7	5.5	4.4 - 6.5	20	10.29	0.25	2.4	10.3	9.2 - 11.3
Siemens Healthcare												
Siemens Dimension	44	5.34	0.16	3.1	5.3	4.3 - 6.4	45	9.92	0.22	2.2	10.0	8.9 - 11.0
All Chemistry Instruments	46	5.33	0.17	3.1	5.3	4.3 - 6.4	47	9.91	0.23	2.4	10.0	8.9 - 11.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	5.64	0.14	2.5	5.7	4.6 - 6.7	13	10.08	0.25	2.5	10.2	9.0 - 11.1
VITROS												
VITROS 250,350,500,700,750,950	36	5.34	0.13	2.5	5.3	4.3 - 6.4	36	10.28	0.22	2.1	10.2	9.2 - 11.3
All Chemistry Instruments	40	5.33	0.14	2.5	5.3	4.3 - 6.4	40	10.25	0.23	2.3	10.2	9.2 - 11.3

Calcium (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	256	10.85	0.31	2.9	10.9	9.8 - 11.9
All Arsenazo Methods	120	10.88	0.29	2.6	10.9	9.8 - 11.9
All CPC Methods	131	10.82	0.33	3.1	10.9	9.8 - 11.9
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	10.4	9.8 - 11.9
All Chemistry Instruments	9	-	-	-	10.7	9.6 - 11.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	39	10.96	0.29	2.7	10.9	9.9 - 12.0
Beckman AU						
Beckman AU systems	37	10.97	0.26	2.3	11.0	9.9 - 12.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	10.89	0.35	3.2	11.0	9.8 - 11.9
Roche Integra						
Roche Integra	20	10.87	0.28	2.5	10.9	9.8 - 11.9
Siemens Healthcare						
Siemens Dimension	44	10.58	0.24	2.2	10.6	9.5 - 11.6
All Chemistry Instruments	46	10.56	0.24	2.3	10.6	9.5 - 11.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	10.75	0.27	2.5	10.8	9.7 - 11.8
VITROS						
VITROS 250,350,500,700,750,950	34	10.94	0.21	1.9	10.9	9.9 - 12.0
All Chemistry Instruments	40	10.94	0.26	2.4	10.9	9.9 - 12.0

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	281	4.78	0.58	12.1	4.9	4.0 - 5.5	281	1.45	0.14	9.5	1.5	1.1 - 1.8
All Alfa Wassermann Reagents	39	4.40	0.16	3.6	4.4	3.7 - 5.1	39	1.57	0.05	3.0	1.6	1.2 - 1.9
All Roche Integra/c111/c301/c501 Reagents	28	4.64	0.46	10.0	4.4	3.9 - 5.4	28	1.45	0.11	7.4	1.4	1.1 - 1.8
All VITROS Reagents	42	3.79	0.14	3.7	3.8	3.2 - 4.4	42	1.20	0.04	3.2	1.2	0.9 - 1.6
Abaxis Piccolo												
Abaxis Piccolo - waived	25	5.36	0.16	2.9	5.4	4.5 - 6.2	26	1.55	0.11	7.1	1.5	1.2 - 1.9
All Chemistry Instruments	32	5.36	0.15	2.9	5.4	4.5 - 6.2	33	1.57	0.12	7.4	1.6	1.2 - 1.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	38	4.40	0.16	3.6	4.4	3.7 - 5.1	39	1.56	0.05	3.5	1.6	1.2 - 1.9
Beckman AU												
Beckman AU systems	36	5.03	0.15	3.0	5.0	4.2 - 5.8	36	1.44	0.06	4.2	1.4	1.1 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	4.83	0.17	3.4	4.9	4.1 - 5.6	20	1.41	0.08	5.6	1.4	1.1 - 1.8
Roche Integra												
Roche Integra	19	4.43	0.25	5.6	4.4	3.7 - 5.1	20	1.42	0.10	7.1	1.4	1.1 - 1.8
Siemens Healthcare												
Siemens Dimension	42	5.20	0.14	2.8	5.2	4.4 - 6.0	44	1.50	0.05	3.4	1.5	1.1 - 1.8
All Chemistry Instruments	44	5.21	0.15	3.0	5.2	4.4 - 6.0	46	1.49	0.05	3.6	1.5	1.1 - 1.8
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	4.82	0.25	5.1	4.8	4.0 - 5.6	12	1.48	0.06	3.9	1.5	1.1 - 1.8
All Chemistry Instruments	14	4.87	0.32	6.5	4.9	4.1 - 5.7	13	1.50	0.08	5.4	1.5	1.2 - 1.8
VITROS - CREA												
VITROS 250,350,500,700,750,950	26	3.78	0.15	4.0	3.8	3.2 - 4.4	26	1.20	0.01	0.0	1.2	0.9 - 1.5
All Chemistry Instruments	31	3.78	0.15	3.8	3.8	3.2 - 4.4	28	1.20	0.01	0.0	1.2	0.9 - 1.5

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	257	0.57	0.09	15.9	0.5	0.2 - 0.9	257	2.74	0.23	8.4	2.8	2.3 - 3.2
All Alfa Wassermann Reagents	40	0.70	0.05	6.8	0.7	0.4 - 1.1	40	2.76	0.10	3.8	2.8	2.3 - 3.2
All Roche Integra/c111/c301/c501 Reagents	27	0.55	0.05	9.3	0.5	0.2 - 0.9	28	2.72	0.21	7.8	2.7	2.3 - 3.2
All VITROS Reagents	42	0.48	0.04	8.7	0.5	0.1 - 0.8	42	2.33	0.07	3.2	2.3	1.9 - 2.7
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	0.6	0.2 - 0.9	3	-	-	-	2.9	2.3 - 3.2
All Chemistry Instruments	9	-	-	-	0.6	0.3 - 1.0	9	-	-	-	2.9	2.5 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	39	0.70	0.05	6.9	0.7	0.4 - 1.1	39	2.76	0.10	3.8	2.7	2.3 - 3.2
Beckman AU												
Beckman AU systems	37	0.56	0.06	10.7	0.6	0.2 - 0.9	36	2.84	0.08	3.0	2.9	2.4 - 3.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	0.52	0.06	11.8	0.5	0.2 - 0.9	20	2.74	0.10	3.6	2.7	2.3 - 3.2
Roche Integra												
Roche Integra	19	0.55	0.05	9.3	0.6	0.2 - 0.9	20	2.66	0.20	7.4	2.6	2.2 - 3.1
Siemens Healthcare												
Siemens Dimension	44	0.54	0.05	9.2	0.5	0.2 - 0.9	44	2.90	0.09	3.2	2.9	2.4 - 3.4
All Chemistry Instruments	46	0.54	0.05	9.2	0.5	0.2 - 0.9	46	2.90	0.09	3.2	2.9	2.4 - 3.4
Vital Diagnostics												
Vital Diagnostics Envoy 500	12	0.56	0.05	9.2	0.6	0.2 - 0.9	12	2.78	0.09	3.1	2.8	2.3 - 3.2
VITROS - CREA												
VITROS 250,350,500,700,750,950	26	0.48	0.04	7.6	0.5	0.1 - 0.8	26	2.33	0.08	3.3	2.3	1.9 - 2.7
All Chemistry Instruments	31	0.48	0.04	7.7	0.5	0.1 - 0.8	31	2.33	0.08	3.4	2.3	1.9 - 2.7

Creatinine (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	256	3.17	0.28	9.0	3.2	2.6 - 3.7
All Alfa Wassermann Reagents	40	3.17	0.12	3.8	3.2	2.6 - 3.7
All Roche Integra/c111/c301/c501 Reagents	28	3.13	0.26	8.4	3.1	2.6 - 3.6
All VITROS Reagents	41	2.66	0.09	3.3	2.7	2.2 - 3.1
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.6	2.6 - 3.7
All Chemistry Instruments	9	-	-	-	3.4	2.8 - 3.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	39	3.17	0.12	3.8	3.2	2.6 - 3.7
Beckman AU						
Beckman AU systems	36	3.30	0.09	2.6	3.3	2.8 - 3.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	3.18	0.13	4.2	3.2	2.6 - 3.7
Roche Integra						
Roche Integra	19	3.00	0.16	5.3	3.0	2.5 - 3.5
Siemens Healthcare						
Siemens Dimension	44	3.40	0.09	2.6	3.4	2.8 - 4.0
All Chemistry Instruments	46	3.40	0.09	2.7	3.4	2.8 - 4.0
Vital Diagnostics						
Vital Diagnostics Envoy 500	12	3.24	0.14	4.3	3.3	2.7 - 3.8
VITROS - CREA						
VITROS 250,350,500,700,750,950	25	2.67	0.09	3.3	2.7	2.2 - 3.1
All Chemistry Instruments	30	2.66	0.09	3.3	2.7	2.2 - 3.1

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	293	235.3	9.2	3.9	235	211 - 259	295	89.8	4.7	5.3	89	80 - 99
All Alfa Wassermann Reagents	42	241.2	5.2	2.1	241	217 - 266	42	96.1	2.1	2.2	96	86 - 106
All Horiba Pentra Reagents	21	235.2	7.8	3.3	236	211 - 259	21	89.5	3.6	4.0	89	80 - 99
All Roche Integra/c111/c301/c501 Reagents	28	230.8	7.9	3.4	231	207 - 254	28	89.0	2.7	3.0	89	80 - 98
All Vital Diagnostics Reagents	15	248.5	10.7	4.3	247	223 - 274	15	94.2	2.9	3.1	94	84 - 104
Abaxis Piccolo												
Abaxis Piccolo - waived	25	225.9	2.0	0.9	226	203 - 249	25	87.2	1.1	1.2	87	78 - 96
All Chemistry Instruments	32	226.0	2.0	0.9	226	203 - 249	32	87.3	1.0	1.2	88	78 - 97
Alere Cholestech LDX												
Alere Cholestech LDX - waived	11	246.4	15.6	6.3	252	221 - 271	10	87.8	4.2	4.7	87	79 - 97
All Chemistry Instruments	12	246.4	14.9	6.0	252	221 - 272	11	86.6	5.5	6.4	87	77 - 96
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	41	241.3	5.2	2.1	241	217 - 266	41	96.1	2.2	2.2	96	86 - 106
Beckman AU												
Beckman AU systems	35	233.4	5.2	2.2	234	210 - 257	36	88.7	2.5	2.8	89	79 - 98
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	235.4	7.9	3.4	237	211 - 259	20	89.6	3.7	4.1	89	80 - 99
Roche Integra												
Roche Integra	20	229.7	7.8	3.4	230	206 - 253	20	89.1	2.7	3.0	89	80 - 99
Siemens Healthcare												
Siemens Dimension	44	241.1	6.8	2.8	241	216 - 266	44	92.5	2.8	3.0	92	83 - 102
All Chemistry Instruments	46	240.5	7.2	3.0	240	216 - 265	46	92.3	2.9	3.2	92	83 - 102
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	248.6	8.8	3.5	247	223 - 274	13	94.7	2.6	2.7	94	85 - 105
All Chemistry Instruments	14	247.2	9.9	4.0	247	222 - 272	14	94.2	3.0	3.2	94	84 - 104
VITROS												
VITROS 250,350,500,700,750,950	36	231.1	3.7	1.6	231	207 - 255	36	84.1	2.0	2.3	84	75 - 93
All Chemistry Instruments	39	230.9	3.7	1.6	231	207 - 255	40	84.3	2.0	2.4	84	75 - 93

Glucose (mg/dL)

Specimen CH-3							Specimen CH-4					
<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	262	51.6	2.9	5.6	51	45 - 58	263	145.1	7.3	5.0	145	130 - 160
All Alfa Wassermann Reagents	42	55.4	1.8	3.2	55	49 - 62	42	151.8	4.1	2.7	152	136 - 167
All Horiba Pentra Reagents	21	50.1	2.7	5.4	49	44 - 57	21	145.3	4.7	3.3	144	130 - 160
All Roche Integra/c111/c301/c501 Reagents	28	50.0	1.7	3.3	50	44 - 56	28	143.7	4.8	3.4	144	129 - 159
All Vital Diagnostics Reagents	14	54.1	2.6	4.9	54	48 - 61	14	154.8	5.4	3.5	156	139 - 171
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	51	45 - 58	3	-	-	-	139	130 - 160
All Chemistry Instruments	9	-	-	-	51	45 - 58	9	-	-	-	139	125 - 153
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	50	45 - 58	1	-	-	-	138	130 - 160
All Chemistry Instruments	2	-	-	-	50	44 - 56	2	-	-	-	133	119 - 146
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	41	55.4	1.8	3.2	55	49 - 62	41	152.0	4.0	2.7	152	136 - 168
Beckman AU												
Beckman AU systems	37	50.1	1.5	3.0	50	44 - 57	36	143.2	3.8	2.7	144	128 - 158
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	50.2	2.8	5.5	50	44 - 57	20	145.5	4.8	3.3	145	130 - 160
Roche Integra												
Roche Integra	20	50.1	1.7	3.4	50	44 - 57	20	143.9	5.0	3.4	143	129 - 159
Siemens Healthcare												
Siemens Dimension	44	52.8	1.8	3.4	53	46 - 59	44	148.7	3.7	2.5	148	133 - 164
All Chemistry Instruments	46	52.8	1.8	3.4	53	46 - 59	46	148.3	3.9	2.7	148	133 - 164
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	54.4	2.5	4.5	54	48 - 61	13	154.7	5.6	3.6	155	139 - 171
VITROS												
VITROS 250,350,500,700,750,950	36	49.9	2.0	3.9	49	43 - 56	36	136.1	3.0	2.2	136	122 - 150
All Chemistry Instruments	41	49.9	2.1	4.1	49	43 - 56	39	136.1	2.9	2.1	136	122 - 150

Glucose (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	260	163.6	7.4	4.6	163	147 - 180
All Alfa Wassermann Reagents	42	170.8	4.6	2.7	170	153 - 188
All Horiba Pentra Reagents	21	163.2	5.1	3.1	163	146 - 180
All Roche Integra/c111/c301/c501 Reagents	28	161.1	5.1	3.2	161	145 - 178
All Vital Diagnostics Reagents	14	174.0	6.7	3.8	173	156 - 192
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	158	147 - 180
All Chemistry Instruments	9	-	-	-	157	140 - 173
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	163	147 - 180
All Chemistry Instruments	2	-	-	-	159	142 - 175
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	41	170.9	4.6	2.7	170	153 - 188
Beckman AU						
Beckman AU systems	36	161.6	4.2	2.6	163	145 - 178
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	163.6	4.9	3.0	164	147 - 180
Roche Integra						
Roche Integra	20	160.8	5.2	3.3	161	144 - 177
Siemens Healthcare						
Siemens Dimension	43	167.6	3.6	2.2	167	150 - 185
All Chemistry Instruments	45	167.2	3.9	2.3	167	150 - 184
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	172.8	5.0	2.9	173	155 - 191
VITROS						
VITROS 250,350,500,700,750,950	35	155.1	3.0	2.0	155	139 - 171
All Chemistry Instruments	39	155.1	2.9	1.9	155	139 - 171

Iron (µg/dL)

Specimen CH-1							Specimen CH-2					
<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	102	227.4	19.9	8.8	223	181 - 273	102	72.1	4.9	6.8	72	57 - 87
All Roche Integra/c111/c301/c501 Reagents	12	221.2	7.3	3.3	220	176 - 266	12	73.8	2.6	3.6	74	59 - 89
Beckman AU												
Beckman AU systems	22	245.1	6.5	2.6	246	196 - 295	20	77.4	1.9	2.4	77	61 - 93
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	198.2	6.1	3.1	198	158 - 238	10	66.6	5.0	7.6	65	53 - 80
Siemens Healthcare												
Siemens Dimension	19	220.8	2.8	1.3	221	176 - 265	18	72.1	0.9	1.2	72	57 - 87
All Chemistry Instruments	20	220.7	2.8	1.3	221	176 - 265	19	72.2	1.0	1.4	72	57 - 87
VITROS												
VITROS 250,350,500,700,750,950	10	260.6	9.5	3.6	260	208 - 313	10	71.7	6.6	9.2	72	57 - 87
All Chemistry Instruments	14	255.9	12.2	4.8	256	204 - 308	14	71.1	6.3	8.9	71	56 - 86
Specimen CH-3							Specimen CH-4					
All Method	102	237.4	9.8	4.1	236	189 - 285	101	130.7	9.7	7.4	129	104 - 157
All Roche Integra/c111/c301/c501 Reagents	12	233.4	6.1	2.6	233	186 - 281	12	130.8	3.8	2.9	130	104 - 157
Beckman AU												
Beckman AU systems	22	250.4	5.2	2.1	251	200 - 301	22	138.8	5.1	3.7	139	111 - 167
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	227.5	7.8	3.4	230	182 - 273	10	116.0	3.6	3.1	116	92 - 140
Siemens Healthcare												
Siemens Dimension	19	234.9	2.2	0.9	236	187 - 282	19	128.2	1.8	1.4	128	102 - 154
All Chemistry Instruments	20	235.0	2.2	0.9	236	187 - 282	20	128.3	1.7	1.3	128	102 - 154
VITROS												
VITROS 250,350,500,700,750,950	10	235.7	10.0	4.3	235	188 - 283	10	144.8	8.2	5.7	145	115 - 174
All Chemistry Instruments	14	236.8	9.5	4.0	237	189 - 285	14	142.6	8.6	6.1	142	114 - 172
Specimen CH-5												
All Method	102	150.9	12.6	8.3	149	120 - 182						
All Roche Integra/c111/c301/c501 Reagents	12	148.8	3.4	2.3	148	119 - 179						
Beckman AU												
Beckman AU systems	22	159.9	4.7	2.9	160	127 - 192						
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	132.1	4.1	3.1	132	105 - 159						
Siemens Healthcare												
Siemens Dimension	19	147.4	2.4	1.7	147	117 - 177						
All Chemistry Instruments	20	147.8	2.9	2.0	148	118 - 178						
VITROS												
VITROS 250,350,500,700,750,950	10	173.6	6.4	3.7	174	138 - 209						
All Chemistry Instruments	14	170.6	8.7	5.1	172	136 - 205						

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	7.35	0.82	11.2	7.7	4.8 - 9.9	6	2.55	0.19	7.3	2.6	1.9 - 3.2
	Specimen CH-3						Specimen CH-4					
	<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	0.25	0.21	82.9	0.3	0.0 - 0.9	6	4.38	0.30	6.8	4.5	3.4 - 5.3
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	5.00	0.35	7.0	5.1	3.9 - 6.1						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	128	4.72	0.23	4.9	4.8	3.5 - 6.0	132	1.98	0.13	6.7	2.0	1.4 - 2.5
All Horiba Pentra Reagents	19	4.42	0.26	5.8	4.4	3.3 - 5.6	19	1.90	0.16	8.4	1.9	1.4 - 2.4
All Roche Integra/c111/c301/c501 Reagents	21	4.69	0.16	3.3	4.6	3.5 - 5.9	21	1.98	0.07	3.4	2.0	1.4 - 2.5
Beckman AU												
Beckman AU systems	21	4.84	0.10	2.1	4.9	3.6 - 6.1	21	2.01	0.08	4.1	2.0	1.5 - 2.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	4.42	0.26	5.9	4.5	3.3 - 5.6	18	1.91	0.16	8.5	1.9	1.4 - 2.4
Roche Integra												
Roche Integra	15	4.63	0.13	2.9	4.6	3.4 - 5.8	15	1.97	0.08	4.0	2.0	1.4 - 2.5
Siemens Healthcare												
Siemens Dimension	22	4.83	0.16	3.2	4.8	3.6 - 6.1	22	1.95	0.08	4.1	1.9	1.4 - 2.5
All Chemistry Instruments	23	4.83	0.15	3.2	4.8	3.6 - 6.1	23	1.94	0.08	4.1	1.9	1.4 - 2.5
VITROS												
VITROS 250,350,500,700,750,950	18	4.92	0.10	2.1	4.9	3.6 - 6.2	18	2.10	0.07	3.3	2.1	1.5 - 2.7
All Chemistry Instruments	22	4.89	0.12	2.5	4.9	3.6 - 6.2	22	2.09	0.08	3.6	2.1	1.5 - 2.7

Magnesium (mg/dL)

Specimen CH-3							Specimen CH-4					
<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	129	1.19	0.09	7.9	1.2	0.8 - 1.5	129	3.05	0.15	5.0	3.0	2.2 - 3.9
All Horiba Pentra Reagents	19	1.19	0.09	7.9	1.2	0.8 - 1.5	19	2.93	0.18	6.2	3.0	2.1 - 3.7
All Roche Integra/c111/c301/c501 Reagents	21	1.23	0.09	7.4	1.2	0.9 - 1.6	21	3.03	0.09	3.0	3.0	2.2 - 3.8
Beckman AU												
Beckman AU systems	21	1.23	0.06	4.6	1.2	0.9 - 1.6	20	3.08	0.08	2.7	3.1	2.3 - 3.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	1.19	0.09	7.8	1.2	0.8 - 1.5	18	2.93	0.18	6.3	3.0	2.1 - 3.7
Roche Integra												
Roche Integra	15	1.25	0.08	6.7	1.2	0.9 - 1.6	15	3.00	0.08	2.8	3.0	2.2 - 3.8
Siemens Healthcare												
Siemens Dimension	22	1.21	0.08	6.7	1.2	0.9 - 1.6	22	3.02	0.08	2.5	3.0	2.2 - 3.8
All Chemistry Instruments	23	1.21	0.08	6.6	1.2	0.9 - 1.6	23	3.03	0.08	2.5	3.0	2.2 - 3.8
VITROS												
VITROS 250,350,500,700,750,950	18	1.13	0.06	5.1	1.1	0.8 - 1.5	18	3.21	0.08	2.6	3.2	2.4 - 4.1
All Chemistry Instruments	22	1.12	0.06	5.3	1.1	0.8 - 1.4	22	3.19	0.09	2.9	3.2	2.3 - 4.0
Specimen CH-5												
All Method	129	3.39	0.17	5.1	3.4	2.5 - 4.3						
All Horiba Pentra Reagents	18	3.22	0.14	4.4	3.2	2.4 - 4.1						
All Roche Integra/c111/c301/c501 Reagents	21	3.37	0.10	3.0	3.4	2.5 - 4.3						
Beckman AU												
Beckman AU systems	21	3.43	0.09	2.7	3.4	2.5 - 4.3						
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	3.22	0.14	4.5	3.2	2.4 - 4.1						
Roche Integra												
Roche Integra	15	3.34	0.11	3.2	3.3	2.5 - 4.2						
Siemens Healthcare												
Siemens Dimension	22	3.42	0.09	2.5	3.4	2.5 - 4.3						
All Chemistry Instruments	23	3.42	0.08	2.4	3.4	2.5 - 4.3						
VITROS												
VITROS 250,350,500,700,750,950	18	3.58	0.08	2.2	3.6	2.6 - 4.5						
All Chemistry Instruments	22	3.55	0.10	2.7	3.6	2.6 - 4.5						

Phosphorus (mg/dL)

Specimen CH-1							Specimen CH-2					
<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	108	5.45	0.28	5.1	5.5	4.8 - 6.1	109	2.52	0.14	5.5	2.5	2.2 - 2.9
All Alfa Wassermann Reagents	12	5.19	0.36	6.9	5.1	4.6 - 5.8	12	2.55	0.19	7.6	2.5	2.2 - 2.9
All Roche Integra/c111/c301/c501 Reagents	16	5.41	0.17	3.2	5.4	4.8 - 6.0	16	2.51	0.07	2.9	2.5	2.2 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	5.19	0.36	6.9	5.1	4.6 - 5.8	12	2.55	0.19	7.6	2.5	2.2 - 2.9
Beckman AU												
Beckman AU systems	21	5.31	0.16	3.0	5.3	4.7 - 5.9	21	2.40	0.11	4.5	2.4	2.1 - 2.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	5.69	0.19	3.3	5.7	5.0 - 6.4	12	2.58	0.12	4.7	2.6	2.2 - 2.9
Roche Integra												
Roche Integra	12	5.36	0.12	2.3	5.3	4.7 - 6.0	12	2.51	0.08	3.2	2.5	2.2 - 2.9
Siemens Healthcare												
Siemens Dimension	15	5.65	0.11	2.0	5.6	5.0 - 6.3	16	2.64	0.07	2.8	2.6	2.3 - 3.0
All Chemistry Instruments	15	5.65	0.11	2.0	5.6	5.0 - 6.3	16	2.64	0.07	2.8	2.6	2.3 - 3.0
VITROS												
VITROS 250,350,500,700,750,950	11	5.55	0.17	3.1	5.5	4.9 - 6.2	11	2.59	0.08	3.2	2.6	2.2 - 2.9
All Chemistry Instruments	15	5.51	0.17	3.1	5.5	4.9 - 6.2	15	2.57	0.09	3.5	2.6	2.2 - 2.9

Specimen CH-3							Specimen CH-4					
All Method	108	1.66	0.14	8.7	1.7	1.3 - 2.0	107	3.63	0.17	4.7	3.6	3.2 - 4.1
All Alfa Wassermann Reagents	12	1.63	0.13	7.9	1.7	1.3 - 2.0	12	3.58	0.25	7.0	3.6	3.1 - 4.0
All Roche Integra/c111/c301/c501 Reagents	16	1.64	0.06	3.8	1.6	1.3 - 2.0	16	3.66	0.10	2.6	3.6	3.2 - 4.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	1.63	0.13	7.9	1.7	1.3 - 2.0	12	3.58	0.25	7.0	3.6	3.1 - 4.0
Beckman AU												
Beckman AU systems	21	1.55	0.13	8.3	1.5	1.2 - 1.9	21	3.51	0.10	2.9	3.5	3.1 - 3.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	1.66	0.12	7.0	1.7	1.3 - 2.0	12	3.83	0.22	5.7	3.8	3.4 - 4.3
Roche Integra												
Roche Integra	12	1.62	0.04	2.4	1.6	1.3 - 2.0	12	3.63	0.08	2.1	3.6	3.2 - 4.1
Siemens Healthcare												
Siemens Dimension	16	1.87	0.08	4.2	1.9	1.5 - 2.2	16	3.78	0.06	1.5	3.8	3.3 - 4.2
All Chemistry Instruments	16	1.87	0.08	4.2	1.9	1.5 - 2.2	16	3.78	0.06	1.5	3.8	3.3 - 4.2
VITROS												
VITROS 250,350,500,700,750,950	11	1.74	0.08	4.7	1.7	1.4 - 2.1	11	3.66	0.14	3.7	3.7	3.2 - 4.1
All Chemistry Instruments	15	1.71	0.09	5.2	1.7	1.4 - 2.1	15	3.62	0.14	3.9	3.6	3.2 - 4.1

Phosphorus (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	109	4.00	0.21	5.2	4.0	3.5 - 4.5
All Alfa Wassermann Reagents	12	3.93	0.26	6.5	4.0	3.5 - 4.4
All Roche Integra/c111/c301/c501 Reagents	16	4.00	0.10	2.6	4.0	3.5 - 4.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	12	3.93	0.26	6.5	4.0	3.5 - 4.4
Beckman AU						
Beckman AU systems	21	3.88	0.17	4.3	3.9	3.4 - 4.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	4.16	0.16	3.9	4.2	3.7 - 4.7
Roche Integra						
Roche Integra	12	3.98	0.09	2.4	4.0	3.5 - 4.5
Siemens Healthcare						
Siemens Dimension	16	4.17	0.09	2.3	4.2	3.7 - 4.7
All Chemistry Instruments	16	4.17	0.09	2.3	4.2	3.7 - 4.7
VITROS						
VITROS 250,350,500,700,750,950	11	4.02	0.11	2.7	4.0	3.5 - 4.5
All Chemistry Instruments	15	3.97	0.13	3.2	4.0	3.5 - 4.4

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	274	9.59	0.38	3.9	9.6	8.6 - 10.6	276	4.36	0.15	3.5	4.4	3.9 - 4.9
All Alfa Wassermann Reagents	38	9.73	0.25	2.6	9.7	8.7 - 10.8	38	4.43	0.13	2.8	4.4	3.9 - 4.9
All Horiba Pentra Reagents	21	9.46	0.18	1.9	9.4	8.5 - 10.5	21	4.28	0.09	2.1	4.3	3.8 - 4.8
All Roche Integra/c111/c301/c501 Reagents	28	9.35	0.28	3.0	9.4	8.4 - 10.3	28	4.27	0.14	3.4	4.3	3.8 - 4.7
All Vital Diagnostics Reagents	15	9.57	0.51	5.4	9.7	8.6 - 10.6	15	4.36	0.25	5.8	4.3	3.9 - 4.8
Abaxis Piccolo												
Abaxis Piccolo - waived	26	9.81	0.23	2.3	9.8	8.8 - 10.8	26	4.46	0.08	1.8	4.5	4.0 - 5.0
All Chemistry Instruments	34	9.78	0.26	2.7	9.8	8.7 - 10.8	34	4.47	0.08	1.9	4.5	4.0 - 5.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	9.73	0.25	2.6	9.7	8.7 - 10.8	36	4.43	0.11	2.4	4.4	3.9 - 4.9
Beckman AU												
Beckman AU systems	35	9.53	0.21	2.2	9.6	8.5 - 10.5	35	4.27	0.09	2.0	4.3	3.8 - 4.7
All Chemistry Instruments	35	9.53	0.21	2.2	9.6	8.5 - 10.5	36	4.27	0.09	2.0	4.3	3.8 - 4.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	9.45	0.17	1.8	9.4	8.5 - 10.4	20	4.28	0.09	2.1	4.3	3.8 - 4.8
Roche Integra												
Roche Integra	20	9.25	0.24	2.6	9.2	8.3 - 10.2	20	4.23	0.14	3.3	4.2	3.8 - 4.7
Siemens Healthcare												
Siemens Dimension	42	9.94	0.19	1.9	9.9	8.9 - 11.0	44	4.53	0.10	2.1	4.5	4.0 - 5.0
All Chemistry Instruments	43	9.94	0.19	1.9	9.9	8.9 - 11.0	45	4.53	0.10	2.1	4.5	4.0 - 5.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	9.68	0.34	3.5	9.7	8.7 - 10.7	13	4.30	0.19	4.4	4.3	3.8 - 4.8
All Chemistry Instruments	14	9.68	0.32	3.3	9.7	8.7 - 10.7	14	4.31	0.19	4.3	4.3	3.8 - 4.8
VITROS												
VITROS 250,350,500,700,750,950	36	9.09	0.27	3.0	9.1	8.1 - 10.1	36	4.25	0.11	2.5	4.3	3.8 - 4.7
All Chemistry Instruments	39	9.09	0.28	3.1	9.1	8.1 - 10.1	41	4.26	0.12	2.8	4.3	3.8 - 4.7

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	252	6.37	0.24	3.8	6.4	5.7 - 7.1	252	6.37	0.23	3.6	6.4	5.7 - 7.1
All Alfa Wassermann Reagents	38	6.47	0.17	2.7	6.5	5.8 - 7.2	38	6.49	0.19	2.9	6.5	5.8 - 7.2
All Horiba Pentra Reagents	21	6.21	0.09	1.4	6.2	5.5 - 6.9	20	6.28	0.11	1.7	6.3	5.6 - 7.0
All Roche Integra/c111/c301/c501 Reagents	28	6.35	0.20	3.1	6.3	5.7 - 7.0	28	6.26	0.22	3.5	6.3	5.6 - 6.9
All Vital Diagnostics Reagents	13	6.18	0.24	3.8	6.2	5.5 - 6.8	14	6.41	0.32	5.0	6.4	5.7 - 7.1
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	6.3	5.7 - 7.1	3	-	-	-	6.3	5.7 - 7.1
All Chemistry Instruments	10	6.40	0.08	1.3	6.4	5.7 - 7.1	10	6.37	0.09	1.5	6.4	5.7 - 7.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	6.48	0.17	2.7	6.5	5.8 - 7.2	37	6.49	0.19	2.9	6.5	5.8 - 7.2
Beckman AU												
Beckman AU systems	36	6.35	0.12	1.9	6.3	5.7 - 7.0	35	6.27	0.12	1.8	6.3	5.6 - 6.9
All Chemistry Instruments	36	6.35	0.12	1.9	6.3	5.7 - 7.0	36	6.26	0.13	2.1	6.3	5.6 - 6.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	6.21	0.09	1.5	6.2	5.5 - 6.9	19	6.28	0.11	1.7	6.3	5.6 - 7.0
Roche Integra												
Roche Integra	20	6.31	0.18	2.9	6.3	5.6 - 7.0	20	6.19	0.20	3.3	6.2	5.5 - 6.9
Siemens Healthcare												
Siemens Dimension	44	6.65	0.14	2.1	6.6	5.9 - 7.4	44	6.59	0.15	2.3	6.6	5.9 - 7.3
All Chemistry Instruments	45	6.65	0.14	2.1	6.6	5.9 - 7.4	45	6.59	0.15	2.3	6.6	5.9 - 7.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	6.18	0.24	3.8	6.2	5.5 - 6.8	13	6.35	0.24	3.7	6.4	5.7 - 7.0
VITROS												
VITROS 250,350,500,700,750,950	36	6.10	0.15	2.4	6.1	5.4 - 6.8	36	6.14	0.14	2.3	6.2	5.5 - 6.8
All Chemistry Instruments	40	6.12	0.16	2.6	6.1	5.5 - 6.8	40	6.15	0.15	2.4	6.2	5.5 - 6.8

Protein, Total (g/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	251	7.02	0.25	3.6	7.0	6.3 - 7.8
All Alfa Wassermann Reagents	38	7.19	0.22	3.0	7.1	6.4 - 8.0
All Horiba Pentra Reagents	21	6.91	0.10	1.4	6.9	6.2 - 7.7
All Roche Integra/c111/c301/c501 Reagents	28	6.89	0.25	3.7	6.9	6.2 - 7.6
All Vital Diagnostics Reagents	14	6.99	0.28	4.0	7.1	6.2 - 7.7
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	7.1	6.3 - 7.8
All Chemistry Instruments	10	7.05	0.10	1.4	7.1	6.3 - 7.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	37	7.19	0.22	3.1	7.1	6.4 - 8.0
Beckman AU						
Beckman AU systems	35	6.94	0.14	2.0	6.9	6.2 - 7.7
All Chemistry Instruments	36	6.93	0.16	2.3	6.9	6.2 - 7.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	6.91	0.10	1.4	6.9	6.2 - 7.6
Roche Integra						
Roche Integra	20	6.81	0.25	3.6	6.8	6.1 - 7.5
Siemens Healthcare						
Siemens Dimension	44	7.29	0.16	2.2	7.3	6.5 - 8.1
All Chemistry Instruments	45	7.28	0.16	2.2	7.3	6.5 - 8.1
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	6.98	0.29	4.1	7.1	6.2 - 7.7
VITROS						
VITROS 250,350,500,700,750,950	35	6.79	0.17	2.6	6.8	6.1 - 7.5
All Chemistry Instruments	40	6.81	0.19	2.8	6.8	6.1 - 7.5

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	278	43.5	2.2	5.0	44	39 - 48	281	14.2	1.2	8.4	14	12 - 17
All Alfa Wassermann Reagents	40	43.1	2.6	6.0	43	39 - 47	40	14.4	0.9	6.2	14	12 - 17
All Horiba Pentra Reagents	21	43.7	1.6	3.8	44	39 - 48	20	14.2	0.5	3.5	14	12 - 17
All Roche Integra/c111/c301/c501 Reagents	28	43.2	1.3	3.0	43	39 - 48	28	14.2	0.7	4.7	14	12 - 17
All Vital Diagnostics Reagents	14	43.1	2.9	6.8	44	39 - 47	14	14.9	1.1	7.6	15	12 - 17
Abaxis Piccolo												
Abaxis Piccolo - waived	25	41.1	0.7	1.8	41	37 - 45	26	13.7	0.5	3.3	14	11 - 16
All Chemistry Instruments	33	41.2	1.1	2.6	41	37 - 45	33	13.8	0.5	3.6	14	11 - 16
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	43.0	2.4	5.7	44	39 - 47	33	14.4	0.9	6.2	14	12 - 17
Beckman AU												
Beckman AU systems	34	45.1	1.1	2.5	45	41 - 50	34	14.9	0.7	4.6	15	12 - 17
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	43.8	1.7	3.8	44	39 - 48	20	14.1	0.7	4.9	14	12 - 17
Roche Integra												
Roche Integra	20	42.8	1.2	2.8	43	38 - 47	19	13.9	0.5	3.3	14	11 - 16
Siemens Healthcare												
Siemens Dimension	43	45.3	1.6	3.5	45	41 - 50	42	15.1	0.7	4.7	15	13 - 18
All Chemistry Instruments	45	45.2	1.6	3.6	45	41 - 50	44	15.1	0.7	4.8	15	13 - 18
Vital Diagnostics												
Vital Diagnostics Envoy 500	12	43.3	3.1	7.2	44	39 - 48	12	14.9	1.2	7.8	15	12 - 17
All Chemistry Instruments	13	43.2	3.1	7.1	44	39 - 48	13	14.8	1.1	7.7	15	12 - 17
VITROS												
VITROS 250,350,500,700,750,950	37	41.9	1.0	2.4	42	38 - 46	37	12.4	0.6	4.8	12	10 - 15
All Chemistry Instruments	42	41.7	1.1	2.8	42	37 - 46	42	12.3	0.6	4.9	12	10 - 15

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	254	5.7	0.9	15.0	6	3 - 8	255	25.0	1.9	7.5	25	22 - 28
All Alfa Wassermann Reagents	38	5.6	0.7	13.0	6	3 - 8	39	25.2	1.4	5.5	25	22 - 28
All Horiba Pentra Reagents	21	5.7	0.9	15.1	6	3 - 8	21	25.0	0.9	3.5	25	22 - 28
All Roche Integra/c111/c301/c501 Reagents	28	5.6	0.5	8.9	6	3 - 8	27	25.1	0.8	3.3	25	22 - 28
All Vital Diagnostics Reagents	13	6.2	0.9	14.6	6	4 - 9	12	26.3	0.6	2.4	26	23 - 29
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	6	3 - 8	3	-	-	-	23	22 - 28
All Chemistry Instruments	9	-	-	-	7	4 - 9	9	-	-	-	23	21 - 26
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	5.5	0.7	13.0	6	3 - 8	32	25.3	1.4	5.4	25	22 - 28
Beckman AU												
Beckman AU systems	35	5.9	0.5	8.1	6	3 - 8	34	26.2	0.8	3.2	26	23 - 29
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.7	0.9	15.2	6	3 - 8	20	25.1	0.9	3.4	25	22 - 28
Roche Integra												
Roche Integra	20	5.6	0.5	9.2	6	3 - 8	19	24.9	0.7	3.0	25	22 - 28
Siemens Healthcare												
Siemens Dimension	44	6.2	0.8	12.4	6	4 - 9	44	26.3	1.1	4.2	27	23 - 29
All Chemistry Instruments	46	6.2	0.8	12.6	6	4 - 9	46	26.3	1.2	4.4	27	23 - 29
Vital Diagnostics												
Vital Diagnostics Envoy 500	12	6.1	0.9	14.8	6	4 - 9	11	26.3	0.6	2.5	26	23 - 29
VITROS												
VITROS 250,350,500,700,750,950	37	4.7	0.5	11.1	5	2 - 7	37	22.3	0.8	3.5	22	20 - 25
All Chemistry Instruments	42	4.7	0.5	11.3	5	2 - 7	42	22.2	0.8	3.8	22	20 - 25

Urea Nitrogen (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	256	28.9	1.9	6.6	29	26 - 32
All Alfa Wassermann Reagents	40	29.0	1.6	5.5	29	26 - 32
All Horiba Pentra Reagents	21	29.0	1.0	3.6	29	26 - 32
All Roche Integra/c111/c301/c501 Reagents	28	28.9	0.8	2.8	29	26 - 32
All Vital Diagnostics Reagents	13	29.9	2.1	7.0	30	27 - 33
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	27	26 - 32
All Chemistry Instruments	9	-	-	-	27	24 - 29
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	33	28.9	1.6	5.5	29	26 - 32
Beckman AU						
Beckman AU systems	34	30.1	0.8	2.8	30	27 - 33
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	29.1	1.0	3.3	29	26 - 32
Roche Integra						
Roche Integra	20	28.7	0.7	2.6	29	26 - 32
Siemens Healthcare						
Siemens Dimension	43	30.1	1.3	4.4	30	27 - 33
All Chemistry Instruments	45	30.1	1.3	4.5	30	27 - 33
Vital Diagnostics						
Vital Diagnostics Envoy 500	12	29.8	2.1	7.0	30	27 - 33
VITROS						
VITROS 250,350,500,700,750,950	35	26.2	0.7	2.7	26	23 - 29
All Chemistry Instruments	40	26.1	0.8	3.0	26	23 - 29

Uric Acid (mg/dL)

Specimen CH-1							Specimen CH-2					
<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	175	11.57	0.47	4.0	11.6	9.6 - 13.6	179	3.86	0.29	7.5	3.8	3.2 - 4.6
All Alfa Wassermann Reagents	23	11.60	0.58	5.0	11.8	9.6 - 13.6	23	4.42	0.20	4.6	4.4	3.6 - 5.2
All Roche Integra/c111/c301/c501 Reagents	20	11.75	0.33	2.8	11.7	9.7 - 13.8	20	3.90	0.14	3.6	3.9	3.2 - 4.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	11.60	0.58	5.0	11.8	9.6 - 13.6	23	4.42	0.20	4.6	4.4	3.6 - 5.2
Beckman AU												
Beckman AU systems	30	11.66	0.27	2.3	11.6	9.6 - 13.7	30	3.88	0.12	3.0	3.9	3.2 - 4.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	11.09	0.19	1.7	11.1	9.2 - 13.0	16	3.70	0.12	3.3	3.7	3.0 - 4.4
Roche Integra												
Roche Integra	14	11.73	0.38	3.3	11.6	9.7 - 13.8	14	3.91	0.16	4.1	3.9	3.2 - 4.6
Siemens Healthcare												
Siemens Dimension	28	11.21	0.54	4.8	11.3	9.3 - 13.2	30	3.71	0.10	2.6	3.7	3.0 - 4.4
All Chemistry Instruments	29	11.17	0.58	5.1	11.2	9.2 - 13.1	31	3.70	0.10	2.8	3.7	3.0 - 4.4
VITROS												
VITROS 250,350,500,700,750,950	25	11.68	0.25	2.1	11.7	9.6 - 13.7	25	3.76	0.10	2.5	3.8	3.1 - 4.4
All Chemistry Instruments	30	11.69	0.27	2.3	11.7	9.7 - 13.7	30	3.78	0.11	2.9	3.8	3.1 - 4.5

Specimen CH-3							Specimen CH-4					
All Method	178	1.98	0.41	20.8	1.9	1.6 - 2.4	174	6.74	0.28	4.1	6.7	5.5 - 7.9
All Alfa Wassermann Reagents	23	3.00	0.20	6.6	3.0	2.4 - 3.6	23	6.94	0.27	3.8	7.0	5.7 - 8.2
All Roche Integra/c111/c301/c501 Reagents	20	1.88	0.07	3.7	1.9	1.5 - 2.2	20	6.89	0.24	3.5	6.9	5.7 - 8.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	3.00	0.20	6.6	3.0	2.4 - 3.6	23	6.94	0.27	3.8	7.0	5.7 - 8.2
Beckman AU												
Beckman AU systems	31	1.93	0.08	4.1	1.9	1.6 - 2.3	30	6.83	0.19	2.7	6.8	5.6 - 8.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.77	0.17	9.7	1.8	1.4 - 2.1	16	6.51	0.10	1.6	6.5	5.4 - 7.7
Roche Integra												
Roche Integra	14	1.88	0.07	3.7	1.9	1.5 - 2.2	14	6.89	0.28	4.0	6.9	5.7 - 8.1
Siemens Healthcare												
Siemens Dimension	30	1.71	0.11	6.6	1.7	1.4 - 2.1	30	6.50	0.17	2.6	6.5	5.3 - 7.7
All Chemistry Instruments	31	1.71	0.12	6.9	1.7	1.4 - 2.0	30	6.50	0.17	2.6	6.5	5.3 - 7.7
VITROS												
VITROS 250,350,500,700,750,950	25	1.93	0.09	4.9	1.9	1.6 - 2.3	25	6.65	0.16	2.4	6.7	5.5 - 7.8
All Chemistry Instruments	30	1.94	0.10	5.2	1.9	1.6 - 2.3	30	6.65	0.17	2.5	6.7	5.5 - 7.8

Uric Acid (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	174	7.69	0.32	4.2	7.7	6.3 - 9.0
All Alfa Wassermann Reagents	23	7.87	0.28	3.6	7.9	6.5 - 9.3
All Roche Integra/c111/c301/c501 Reagents	20	7.89	0.23	3.0	7.9	6.5 - 9.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	7.87	0.28	3.6	7.9	6.5 - 9.3
Beckman AU						
Beckman AU systems	30	7.84	0.19	2.4	7.9	6.5 - 9.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	7.47	0.48	6.4	7.4	6.2 - 8.8
Roche Integra						
Roche Integra	14	7.90	0.27	3.5	7.9	6.5 - 9.3
Siemens Healthcare						
Siemens Dimension	30	7.45	0.18	2.5	7.5	6.1 - 8.8
All Chemistry Instruments	30	7.45	0.18	2.5	7.5	6.1 - 8.8
VITROS						
VITROS 250,350,500,700,750,950	24	7.63	0.15	2.0	7.7	6.3 - 9.0
All Chemistry Instruments	29	7.62	0.16	2.0	7.6	6.3 - 9.0

Chloride (mmol/L)

Specimen CH-1							Specimen CH-2					
<u>Method/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	270	124.6	10.1	8.1	122	118 - 131	277	95.5	2.6	2.8	95	90 - 101
Abaxis Piccolo												
Abaxis Piccolo - waived	26	115.5	2.1	1.9	115	109 - 122	26	97.0	2.2	2.3	97	92 - 102
All Chemistry Instruments	33	115.2	2.2	1.9	115	109 - 122	33	96.7	2.1	2.2	96	91 - 102
ISE Diluted												
Beckman AU systems	35	113.7	1.2	1.1	114	107 - 120	36	93.1	1.0	1.1	93	88 - 98
Roche Integra	17	119.3	2.0	1.7	119	113 - 126	18	94.5	1.8	1.9	94	89 - 100
Siemens Dimension QuickLyte - Xpand/EXL	27	121.1	1.2	1.0	121	115 - 128	27	96.9	1.5	1.6	97	92 - 102
Vital Diagnostics Envoy 500	14	130.3	3.9	3.0	131	123 - 137	14	99.5	2.6	2.6	100	94 - 105
All Chemistry Instruments	132	119.5	5.5	4.6	119	113 - 126	134	95.0	2.9	3.0	94	90 - 100
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	36	142.4	3.9	2.7	142	135 - 150	37	97.5	1.5	1.5	98	92 - 103
Horiba ABX Pentra 400	14	137.0	5.4	4.0	135	130 - 144	17	95.2	1.7	1.8	95	90 - 100
All Chemistry Instruments	55	140.0	5.9	4.2	141	133 - 148	65	96.5	2.2	2.2	97	91 - 102
VITROS												
VITROS 250,350,500,700,750,950	35	126.6	1.9	1.5	126	120 - 133	36	94.6	1.5	1.6	95	89 - 100
All Chemistry Instruments	41	126.7	2.2	1.7	127	120 - 133	42	94.7	1.8	1.9	95	89 - 100

Specimen CH-3							Specimen CH-4					
<u>Method/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	252	87.1	2.3	2.7	87	82 - 92	253	105.9	4.3	4.0	106	100 - 112
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	91	86 - 96	3	-	-	-	102	97 - 109
All Chemistry Instruments	8	-	-	-	91	86 - 96	9	-	-	-	102	97 - 109
ISE Diluted												
Beckman AU systems	37	88.1	0.9	1.0	88	83 - 93	35	100.7	0.8	0.8	101	95 - 106
Roche Integra	19	85.3	1.6	1.9	85	81 - 90	17	103.2	1.6	1.6	103	98 - 109
Siemens Dimension QuickLyte - Xpand/EXL	27	86.0	0.9	1.0	86	81 - 91	27	105.7	1.3	1.3	106	100 - 112
Vital Diagnostics Envoy 500	14	89.1	2.6	2.9	89	84 - 94	14	111.9	2.9	2.6	112	106 - 118
All Chemistry Instruments	135	86.7	2.2	2.5	87	82 - 91	133	104.0	3.6	3.4	103	98 - 110
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	37	87.4	1.6	1.8	87	83 - 92	34	111.4	1.0	0.9	112	105 - 117
Horiba ABX Pentra 400	17	84.9	1.6	1.9	85	80 - 90	17	109.8	3.3	3.0	109	104 - 116
All Chemistry Instruments	64	86.7	2.1	2.4	87	82 - 92	64	109.9	3.4	3.1	111	104 - 116
VITROS												
VITROS 250,350,500,700,750,950	36	88.0	1.4	1.6	88	83 - 93	35	105.8	1.6	1.5	106	100 - 112
All Chemistry Instruments	42	88.0	1.7	2.0	88	83 - 93	42	105.9	2.2	2.0	106	100 - 112

Chloride (mmol/L)

Specimen CH-5						
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	252	109.7	5.3	4.8	109	104 - 116
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	106	101 - 113
All Chemistry Instruments	9	-	-	-	107	101 - 113
ISE Diluted						
Beckman AU systems	36	103.7	1.2	1.1	103	98 - 109
Roche Integra	17	106.1	1.6	1.5	106	100 - 112
Siemens Dimension QuickLyte - Xpand/EXL	27	109.0	1.4	1.3	109	103 - 115
Vital Diagnostics Envoy 500	14	114.0	3.4	3.0	114	108 - 120
All Chemistry Instruments	134	106.9	3.7	3.5	107	101 - 113
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	35	117.7	1.6	1.3	118	111 - 124
Horiba ABX Pentra 400	17	115.2	4.1	3.6	114	109 - 121
All Chemistry Instruments	64	115.4	4.5	3.9	117	109 - 122
VITROS						
VITROS 250,350,500,700,750,950	34	109.9	1.7	1.6	110	104 - 116
All Chemistry Instruments	39	109.7	2.0	1.8	110	104 - 116

CO₂ (mmol/L)

Specimen CH-1							Specimen CH-2					
<u>Method/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	266	34.7	2.9	8.3	35	27 - 42	267	18.4	2.1	11.4	18	14 - 23
Abaxis Piccolo												
Abaxis Piccolo - waived	25	32.6	1.5	4.5	33	26 - 40	25	18.5	1.0	5.4	18	14 - 23
All Chemistry Instruments	30	32.7	1.4	4.4	33	26 - 40	30	18.4	1.0	5.5	18	14 - 23
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	23	35.1	3.8	10.8	35	28 - 43	23	19.4	2.4	12.6	19	15 - 24
Beckman AU systems	31	36.6	3.3	9.0	37	29 - 44	31	18.4	1.5	8.3	19	14 - 23
Horiba ABX Pentra 400	15	35.2	2.8	7.9	36	28 - 43	15	19.1	2.1	11.1	19	15 - 23
Roche Integra	15	32.8	2.0	6.0	33	26 - 40	15	17.5	1.5	8.3	17	13 - 21
Siemens Dimension	31	35.4	1.8	5.1	35	28 - 43	31	19.6	1.5	7.4	20	15 - 24
All Chemistry Instruments	140	35.2	3.0	8.5	35	28 - 43	141	18.8	2.1	11.1	19	15 - 23
ISE Diluted												
Vital Diagnostics Envoy 500	13	32.3	4.2	12.9	34	25 - 39	13	16.5	2.6	15.6	17	13 - 20
All Chemistry Instruments	30	33.8	4.5	13.4	34	27 - 41	30	17.9	2.9	16.2	18	14 - 22
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	13	35.4	3.1	8.8	36	28 - 43	13	19.8	2.3	11.5	21	15 - 24
All Chemistry Instruments	23	35.8	3.4	9.4	37	28 - 43	23	19.2	2.8	14.4	20	15 - 24
VITROS												
VITROS 250,350,500,700,750,950	36	34.1	1.6	4.7	34	27 - 41	36	16.8	1.3	7.9	17	13 - 21
All Chemistry Instruments	41	34.0	1.8	5.2	34	27 - 41	41	16.5	1.5	8.9	17	13 - 20

Specimen CH-3							Specimen CH-4					
<u>Method/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	244	17.6	1.8	10.4	18	14 - 22	246	24.6	2.7	11.1	25	19 - 30
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	18	14 - 22	3	-	-	-	26	20 - 31
All Chemistry Instruments	8	-	-	-	18	14 - 22	8	-	-	-	25	20 - 31
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	22	17.8	2.1	11.7	18	14 - 22	23	25.8	2.9	11.2	26	20 - 31
Beckman AU systems	32	17.5	1.3	7.5	18	14 - 22	31	25.3	1.8	7.1	25	20 - 31
Horiba ABX Pentra 400	15	18.3	1.8	9.8	19	14 - 22	15	25.0	2.1	8.6	25	20 - 30
Roche Integra	15	16.7	1.2	6.9	17	13 - 21	15	23.1	2.0	8.5	23	18 - 28
Siemens Dimension	31	18.8	1.4	7.5	19	15 - 23	30	26.4	1.5	5.8	27	21 - 32
All Chemistry Instruments	140	17.8	1.7	9.6	18	14 - 22	142	25.1	2.6	10.2	25	20 - 31
ISE Diluted												
Vital Diagnostics Envoy 500	12	14.6	2.1	14.5	15	11 - 18	13	23.0	3.5	15.1	24	18 - 28
All Chemistry Instruments	29	16.7	2.8	16.8	17	13 - 21	30	24.0	3.6	14.8	25	19 - 29
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	13	18.2	2.3	12.5	19	14 - 22	13	26.0	3.4	12.9	28	20 - 32
All Chemistry Instruments	22	18.2	2.2	12.2	19	14 - 22	22	26.1	3.0	11.5	28	20 - 32
VITROS												
VITROS 250,350,500,700,750,950	36	17.2	1.3	7.8	17	13 - 21	36	21.9	1.7	7.9	22	17 - 27
All Chemistry Instruments	41	17.0	1.4	8.1	17	13 - 21	42	21.7	1.9	8.8	22	17 - 27

CO₂ (mmol/L)**Specimen CH-5**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	247	26.1	2.8	10.8	26	20 - 32
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	27	21 - 33
All Chemistry Instruments	8	-	-	-	27	21 - 33
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	23	27.3	3.0	10.9	27	21 - 33
Beckman AU systems	31	26.9	2.0	7.5	27	21 - 33
Horiba ABX Pentra 400	15	26.9	2.3	8.4	28	21 - 33
Roche Integra	15	25.3	1.6	6.4	25	20 - 31
Siemens Dimension	31	27.8	1.8	6.4	28	22 - 34
All Chemistry Instruments	142	26.7	2.6	9.8	27	21 - 33
ISE Diluted						
Vital Diagnostics Envoy 500	13	24.5	2.8	11.5	25	19 - 30
All Chemistry Instruments	30	25.7	3.1	11.9	26	20 - 31
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	13	26.8	4.1	15.3	28	21 - 33
All Chemistry Instruments	22	27.2	3.4	12.6	29	21 - 33
VITROS						
VITROS 250,350,500,700,750,950	35	23.4	1.8	7.8	23	18 - 29
All Chemistry Instruments	41	23.5	2.0	8.4	23	18 - 29

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	278	8.07	1.00	12.4	7.6	7.5 - 8.6	280	3.59	0.14	4.0	3.6	3.0 - 4.1
Abaxis Piccolo												
Abaxis Piccolo - waived	26	7.47	0.25	3.3	7.5	6.9 - 8.0	26	3.45	0.17	5.0	3.5	2.9 - 4.0
All Chemistry Instruments	33	7.48	0.24	3.1	7.5	6.9 - 8.0	33	3.47	0.17	4.8	3.5	2.9 - 4.0
ISE Diluted												
Beckman AU systems	34	7.14	0.10	1.4	7.1	6.6 - 7.7	35	3.50	0.05	1.5	3.5	2.9 - 4.0
Roche Integra	19	7.46	0.08	1.1	7.5	6.9 - 8.0	19	3.53	0.05	1.4	3.5	3.0 - 4.1
Siemens Dimension QuickLyte - Xpand/EXL	28	7.44	0.10	1.3	7.4	6.9 - 8.0	27	3.50	0.04	1.2	3.5	3.0 - 4.1
Vital Diagnostics Envoy 500	14	7.48	0.24	3.2	7.6	6.9 - 8.0	14	3.51	0.11	3.3	3.5	3.0 - 4.1
All Chemistry Instruments	133	7.36	0.20	2.7	7.4	6.8 - 7.9	134	3.51	0.07	2.1	3.5	3.0 - 4.1
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	37	8.88	0.23	2.6	8.9	8.3 - 9.4	39	3.68	0.08	2.1	3.7	3.1 - 4.2
Horiba ABX Pentra 400	17	8.48	0.21	2.5	8.5	7.9 - 9.0	18	3.61	0.08	2.1	3.6	3.1 - 4.2
All Chemistry Instruments	64	8.61	0.53	6.2	8.7	8.1 - 9.2	68	3.64	0.10	2.8	3.6	3.1 - 4.2
VITROS												
VITROS 250,350,500,700,750,950	37	9.98	0.20	2.0	10.0	9.4 - 10.5	37	3.81	0.07	1.9	3.8	3.3 - 4.4
All Chemistry Instruments	43	9.94	0.23	2.3	9.9	9.4 - 10.5	43	3.80	0.08	2.0	3.8	3.3 - 4.4
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	248	2.83	0.11	4.0	2.8	2.3 - 3.4	258	5.18	0.34	6.5	5.1	4.6 - 5.7
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	3.3	2.9 - 4.0	3	-	-	-	5.0	4.5 - 5.6
All Chemistry Instruments	9	-	-	-	3.4	2.9 - 4.0	9	-	-	-	5.1	4.5 - 5.6
ISE Diluted												
Beckman AU systems	37	2.82	0.06	2.0	2.8	2.3 - 3.4	35	4.86	0.06	1.1	4.9	4.3 - 5.4
Roche Integra	18	2.84	0.07	2.5	2.8	2.3 - 3.4	19	4.99	0.05	0.9	5.0	4.4 - 5.5
Siemens Dimension QuickLyte - Xpand/EXL	28	2.79	0.09	3.1	2.8	2.2 - 3.3	28	4.97	0.07	1.5	5.0	4.4 - 5.5
Vital Diagnostics Envoy 500	14	2.64	0.09	3.5	2.6	2.1 - 3.2	13	5.03	0.14	2.9	5.1	4.5 - 5.6
All Chemistry Instruments	135	2.79	0.10	3.6	2.8	2.2 - 3.3	132	4.95	0.10	2.1	4.9	4.4 - 5.5
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	38	2.89	0.11	3.7	2.9	2.3 - 3.4	38	5.33	0.08	1.4	5.3	4.8 - 5.9
Horiba ABX Pentra 400	17	2.79	0.06	2.0	2.8	2.2 - 3.3	18	5.25	0.08	1.5	5.2	4.7 - 5.8
All Chemistry Instruments	66	2.86	0.11	4.0	2.8	2.3 - 3.4	67	5.25	0.15	2.9	5.3	4.7 - 5.8
VITROS												
VITROS 250,350,500,700,750,950	37	2.91	0.07	2.3	2.9	2.4 - 3.5	37	5.81	0.11	1.9	5.8	5.3 - 6.4
All Chemistry Instruments	43	2.91	0.07	2.4	2.9	2.4 - 3.5	43	5.80	0.11	2.0	5.8	5.3 - 6.4

Potassium (mmol/L)

Specimen CH-5						
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	256	5.74	0.43	7.5	5.6	5.2 - 6.3
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	5.6	5.1 - 6.2
All Chemistry Instruments	9	-	-	-	5.6	5.1 - 6.2
ISE Diluted						
Beckman AU systems	35	5.35	0.06	1.1	5.3	4.8 - 5.9
Roche Integra	19	5.48	0.07	1.3	5.5	4.9 - 6.0
Siemens Dimension QuickLyte - Xpand/EXL	28	5.48	0.07	1.3	5.5	4.9 - 6.0
Vital Diagnostics Envoy 500	14	5.45	0.13	2.4	5.5	4.9 - 6.0
All Chemistry Instruments	134	5.44	0.11	1.9	5.4	4.9 - 6.0
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	37	6.04	0.09	1.5	6.0	5.5 - 6.6
Horiba ABX Pentra 400	18	5.87	0.09	1.5	5.9	5.3 - 6.4
All Chemistry Instruments	67	5.90	0.22	3.7	5.9	5.4 - 6.5
VITROS						
VITROS 250,350,500,700,750,950	36	6.53	0.11	1.7	6.5	6.0 - 7.1
All Chemistry Instruments	41	6.52	0.12	1.9	6.5	6.0 - 7.1

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.

Specimen CH-1							Specimen CH-2					
<u>Method/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	267	174.5	19.0	10.9	165	170 - 179	279	130.4	3.1	2.3	130	126 - 135
Abaxis Piccolo												
Abaxis Piccolo - waived	26	167.8	2.3	1.4	169	163 - 172	26	131.8	1.8	1.3	132	127 - 136
All Chemistry Instruments	33	167.7	2.4	1.4	168	163 - 172	33	131.2	2.2	1.6	131	127 - 136
ISE Diluted												
Beckman AU systems	36	156.0	2.0	1.3	156	152 - 160	36	126.9	1.5	1.2	127	122 - 131
Roche Integra	18	160.9	1.4	0.9	161	156 - 165	18	127.4	1.1	0.9	127	123 - 132
Siemens Dimension QuickLyte - Xpand/EXL	28	159.6	1.4	0.9	160	155 - 164	29	129.7	1.5	1.2	130	125 - 134
Vital Diagnostics Envoy 500	14	162.9	3.4	2.1	162	158 - 167	14	128.9	2.8	2.2	128	124 - 133
All Chemistry Instruments	131	159.0	3.0	1.9	159	154 - 163	133	128.2	1.9	1.5	128	124 - 133
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	36	199.1	3.1	1.6	200	195 - 204	39	132.3	1.4	1.0	132	128 - 137
Horiba ABX Pentra 400	15	194.2	2.5	1.3	194	190 - 199	17	132.7	1.8	1.3	132	128 - 137
All Chemistry Instruments	52	197.5	3.8	1.9	198	193 - 202	67	131.9	2.0	1.5	132	127 - 136
VITROS												
VITROS 250,350,500,700,750,950	35	200.7	4.0	2.0	201	196 - 205	35	134.4	1.7	1.3	134	130 - 139
All Chemistry Instruments	41	200.5	4.0	2.0	201	196 - 205	41	134.5	1.7	1.3	135	130 - 139

Specimen CH-3							Specimen CH-4					
<u>Method/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	254	117.5	3.2	2.7	117	113 - 122	256	146.0	7.8	5.3	142	141 - 150
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	124	119 - 128	3	-	-	-	146	140 - 149
All Chemistry Instruments	9	-	-	-	124	119 - 128	9	-	-	-	144	140 - 149
ISE Diluted												
Beckman AU systems	35	114.7	1.0	0.9	115	110 - 119	37	138.0	1.2	0.9	138	134 - 143
Roche Integra	18	115.1	1.1	0.9	115	111 - 120	18	139.6	1.2	0.9	140	135 - 144
Siemens Dimension QuickLyte - Xpand/EXL	29	117.6	1.3	1.1	118	113 - 122	29	140.8	1.4	1.0	141	136 - 145
Vital Diagnostics Envoy 500	14	115.1	2.1	1.8	115	111 - 120	14	142.3	2.5	1.7	142	138 - 147
All Chemistry Instruments	135	115.8	1.9	1.6	116	111 - 120	132	139.6	1.8	1.3	140	135 - 144
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	39	116.6	1.6	1.4	117	112 - 121	37	153.3	1.1	0.7	153	149 - 158
Horiba ABX Pentra 400	17	119.5	1.6	1.3	119	115 - 124	18	153.6	1.9	1.2	153	149 - 158
All Chemistry Instruments	66	117.3	2.1	1.8	117	113 - 122	65	152.0	4.0	2.6	153	148 - 156
VITROS												
VITROS 250,350,500,700,750,950	35	122.2	1.7	1.4	122	118 - 127	35	157.6	2.2	1.4	158	153 - 162
All Chemistry Instruments	41	122.3	1.9	1.5	123	118 - 127	41	157.6	2.3	1.5	158	153 - 162

Sodium (mmol/L)

Specimen CH-5						
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	256	151.5	9.7	6.4	146	147 - 156
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	153	145 - 153
All Chemistry Instruments	9	-	-	-	150	145 - 153
ISE Diluted						
Beckman AU systems	36	141.9	1.4	1.0	142	137 - 146
Roche Integra	18	143.7	1.1	0.7	144	139 - 148
Siemens Dimension QuickLyte - Xpand/EXL	29	144.6	1.4	1.0	145	140 - 149
Vital Diagnostics Envoy 500	14	145.4	2.6	1.8	146	141 - 150
All Chemistry Instruments	131	143.5	1.9	1.3	144	139 - 148
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	37	162.2	1.3	0.8	162	158 - 167
Horiba ABX Pentra 400	18	161.2	2.0	1.2	161	157 - 166
All Chemistry Instruments	63	160.6	4.1	2.6	161	156 - 165
VITROS						
VITROS 250,350,500,700,750,950	35	165.4	2.4	1.5	165	161 - 170
All Chemistry Instruments	40	165.1	2.8	1.7	165	161 - 170

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	470.0	130.0	27.7	507	210 - 730	18	166.1	24.8	14.9	171	116 - 216
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	14	451.9	142.4	31.5	493	167 - 737	14	162.1	25.7	15.9	163	110 - 214
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	337.9	33.4	9.9	344	270 - 406	18	272.0	65.2	24.0	300	141 - 403
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	14	335.4	35.9	10.7	344	263 - 408	14	268.6	64.5	24.0	293	139 - 398
<u>Method/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	305.2	73.0	23.9	341	159 - 452						
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	14	300.6	71.6	23.8	332	157 - 444						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	386.7	36.0	9.3	407	309 - 464	27	160.9	29.3	18.2	169	102 - 220
Siemens Healthcare												
Siemens Dimension	14	404.9	12.1	3.0	407	323 - 486	14	138.5	11.6	8.3	138	110 - 167
All Chemistry Instruments	15	405.0	11.7	2.9	407	324 - 486	15	138.8	11.2	8.1	140	111 - 167
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	349.8	35.1	10.0	333	279 - 421	27	251.2	25.8	10.3	247	199 - 303
Siemens Healthcare												
Siemens Dimension	14	331.1	14.9	4.5	333	264 - 398	14	240.2	11.8	4.9	241	192 - 289
All Chemistry Instruments	15	330.9	14.4	4.3	333	264 - 398	15	240.2	11.4	4.7	241	192 - 289
<u>Method/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	278.7	20.0	7.2	279	222 - 335						
Siemens Healthcare												
Siemens Dimension	14	275.1	11.4	4.2	277	220 - 331						
All Chemistry Instruments	15	275.3	11.1	4.0	278	220 - 331						

UIBC – Direct (µg/dL)

Specimen CH-1							Specimen CH-2					
<u>Method/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	29	294.7	16.8	5.7	295	235 - 354	29	106.4	11.1	10.4	111	84 - 129
All Roche Integra/c111/c301/c501 Reagents	11	283.7	17.2	6.1	281	226 - 341	11	98.5	11.2	11.4	93	76 - 121
Beckman AU												
Beckman AU systems	16	304.3	9.8	3.2	306	243 - 366	16	113.0	6.4	5.7	114	90 - 136
Specimen CH-3							Specimen CH-4					
All Method	29	97.5	15.4	15.8	97	66 - 129	29	178.9	12.7	7.1	183	143 - 215
All Roche Integra/c111/c301/c501 Reagents	11	82.6	8.3	10.1	82	65 - 100	11	168.7	11.7	6.9	168	134 - 203
Beckman AU												
Beckman AU systems	16	109.3	8.3	7.6	109	87 - 132	16	187.1	6.8	3.6	187	149 - 225
Specimen CH-5												
All Method	29	202.9	15.5	7.6	206	162 - 244						
All Roche Integra/c111/c301/c501 Reagents	11	190.5	14.9	7.8	190	152 - 229						
Beckman AU												
Beckman AU systems	16	212.3	8.9	4.2	214	169 - 255						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<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	273	251.8	22.3	8.9	251	201 - 303	273	68.2	9.7	14.2	69	54 - 82
All Alfa Wassermann Reagents	37	219.9	6.0	2.7	219	175 - 264	37	54.9	2.9	5.3	54	43 - 66
All Horiba Pentra Reagents	21	285.4	9.2	3.2	285	228 - 343	21	73.6	5.2	7.1	75	58 - 89
All Roche Integra/c111/c301/c501 Reagents	27	260.6	5.5	2.1	259	208 - 313	28	68.1	2.4	3.5	68	54 - 82
All Vital Diagnostics Reagents	14	263.6	16.6	6.3	260	210 - 317	15	69.0	6.6	9.6	70	55 - 83
Abaxis Piccolo												
Abaxis Piccolo - waived	26	232.6	5.5	2.3	233	186 - 280	26	62.4	8.0	12.7	65	49 - 75
All Chemistry Instruments	34	233.2	5.1	2.2	233	186 - 280	34	63.8	7.5	11.7	66	51 - 77
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	220.4	5.3	2.4	220	176 - 265	32	54.5	4.2	7.7	55	43 - 66
Beckman AU												
Beckman AU systems	35	239.7	5.7	2.4	240	191 - 288	35	60.6	1.8	2.9	61	48 - 73
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	286.3	8.5	3.0	286	229 - 344	20	73.8	5.3	7.2	76	59 - 89
Roche Integra												
Roche Integra	20	261.6	7.4	2.8	261	209 - 314	20	68.4	2.3	3.4	68	54 - 83
Siemens Healthcare ALTi												
Siemens Dimension	38	277.6	7.9	2.8	277	222 - 334	37	74.4	2.5	3.4	75	59 - 90
All Chemistry Instruments	39	277.3	8.1	2.9	276	221 - 333	38	74.3	2.5	3.4	75	59 - 90
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	265.5	15.5	5.8	261	212 - 319	13	70.5	4.3	6.1	70	56 - 85
All Chemistry Instruments	14	263.6	16.6	6.3	260	210 - 317	14	70.4	4.2	5.9	70	56 - 85
VITROS												
VITROS 250,350,500,700,750,950	37	247.8	6.5	2.6	248	198 - 298	35	82.3	3.0	3.7	83	65 - 99
All Chemistry Instruments	43	247.6	6.7	2.7	248	198 - 298	41	82.5	3.0	3.7	83	65 - 99

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<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	249	18.5	7.1	38.4	18	14 - 23	240	133.3	14.6	10.9	137	106 - 160
All Alfa Wassermann Reagents	39	9.7	2.7	28.0	9	7 - 12	38	107.3	12.6	11.8	113	85 - 129
All Horiba Pentra Reagents	21	18.8	2.0	10.4	18	15 - 23	21	141.9	19.2	13.6	147	113 - 171
All Roche Integra/c111/c301/c501 Reagents	28	14.4	1.6	11.4	15	11 - 18	27	137.2	3.2	2.3	137	109 - 165
All Vital Diagnostics Reagents	13	17.4	1.0	6.0	17	13 - 21	12	132.9	13.6	10.2	136	106 - 160
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	23	17 - 27	3	-	-	-	127	95 - 144
All Chemistry Instruments	10	22.3	2.8	12.7	22	17 - 27	10	119.7	14.7	12.3	126	95 - 144
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	9.6	2.8	29.2	9	7 - 12	32	108.8	11.8	10.8	114	87 - 131
Beckman AU												
Beckman AU systems	36	12.6	0.5	4.0	13	10 - 16	34	122.9	4.5	3.6	123	98 - 148
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	19.0	1.8	9.5	19	15 - 23	20	142.0	19.7	13.9	148	113 - 171
Roche Integra												
Roche Integra	20	14.4	1.9	13.0	14	11 - 18	19	137.4	2.8	2.0	137	109 - 165
Siemens Healthcare ALTi												
Siemens Dimension	38	22.7	2.0	8.9	23	18 - 28	37	146.6	5.0	3.4	147	117 - 176
All Chemistry Instruments	39	22.7	2.0	8.8	23	18 - 28	39	145.6	6.5	4.5	146	116 - 175
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	17.4	1.0	6.0	17	13 - 21	12	132.9	13.6	10.2	136	106 - 160
VITROS												
VITROS 250,350,500,700,750,950	36	29.7	2.9	9.6	31	23 - 36	35	140.6	5.2	3.7	141	112 - 169
All Chemistry Instruments	42	29.6	2.8	9.4	30	23 - 36	40	141.6	4.5	3.2	142	113 - 170

ALT (SGPT) (IU/L)

Specimen CH-5						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	247	159.3	15.1	9.5	163	127 - 192
All Alfa Wassermann Reagents	37	137.6	3.8	2.7	136	110 - 166
All Horiba Pentra Reagents	21	178.5	8.7	4.9	179	142 - 215
All Roche Integra/c111/c301/c501 Reagents	28	162.9	4.7	2.9	163	130 - 196
All Vital Diagnostics Reagents	13	169.0	11.6	6.8	167	135 - 203
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	151	118 - 178
All Chemistry Instruments	10	148.3	4.7	3.2	147	118 - 178
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	32	137.5	3.7	2.7	137	110 - 165
Beckman AU						
Beckman AU systems	35	146.8	4.7	3.2	147	117 - 177
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	179.1	8.5	4.8	179	143 - 215
Roche Integra						
Roche Integra	19	162.7	3.0	1.8	163	130 - 196
Siemens Healthcare ALTi						
Siemens Dimension	38	174.3	5.0	2.8	174	139 - 210
All Chemistry Instruments	39	174.1	5.0	2.9	174	139 - 209
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	169.0	11.6	6.8	167	135 - 203
VITROS						
VITROS 250,350,500,700,750,950	36	162.8	5.7	3.5	163	130 - 196
All Chemistry Instruments	41	162.7	5.6	3.5	163	130 - 196

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<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	279	211.9	39.4	18.6	224	148 - 276	278	65.4	7.5	11.4	67	45 - 86
All Alfa Wassermann Reagents	37	226.8	15.9	7.0	232	158 - 295	37	66.2	4.6	7.0	68	46 - 87
All Horiba Pentra Reagents	21	248.4	10.8	4.3	249	173 - 323	21	73.5	4.2	5.7	72	51 - 96
All Roche Integra/c111/c301/c501 Reagents	28	231.7	12.3	5.3	233	162 - 302	26	67.0	2.0	3.0	67	46 - 88
All Vital Diagnostics Reagents	15	208.1	18.1	8.7	212	145 - 271	15	62.7	5.4	8.7	64	43 - 82
Abaxis Piccolo												
Abaxis Piccolo - waived	25	161.1	5.0	3.1	161	112 - 210	25	52.8	3.8	7.3	52	36 - 69
All Chemistry Instruments	33	160.8	5.2	3.2	161	112 - 209	34	51.8	4.3	8.2	52	36 - 68
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	224.6	16.6	7.4	231	157 - 292	30	66.1	4.7	7.2	68	46 - 86
Beckman AU												
Beckman AU systems	34	219.7	15.4	7.0	221	153 - 286	34	62.2	4.4	7.1	63	43 - 81
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	247.4	9.8	4.0	247	173 - 322	20	73.2	4.0	5.4	72	51 - 96
Roche Integra												
Roche Integra	19	228.9	11.1	4.8	229	160 - 298	17	66.5	1.7	2.6	67	46 - 87
All Chemistry Instruments	20	229.2	10.8	4.7	231	160 - 298	18	66.6	1.7	2.5	67	46 - 87
Siemens Healthcare												
Siemens Dimension	11	255.8	9.5	3.7	254	179 - 333	11	73.5	4.3	5.9	74	51 - 96
Siemens Healthcare ALPi												
Siemens Dimension	33	255.6	6.1	2.4	256	178 - 333	34	72.8	3.5	4.9	73	50 - 95
All Chemistry Instruments	34	255.7	6.1	2.4	256	179 - 333	35	72.8	3.5	4.8	73	50 - 95
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	213.5	11.5	5.4	215	149 - 278	13	64.2	4.0	6.3	65	44 - 84
All Chemistry Instruments	14	210.1	16.9	8.0	214	147 - 274	14	63.1	5.4	8.6	65	44 - 83
VITROS												
VITROS 250,350,500,700,750,950	37	152.9	10.1	6.6	154	107 - 199	36	65.7	3.3	5.0	66	46 - 86
All Chemistry Instruments	43	153.0	9.8	6.4	153	107 - 199	42	66.0	3.2	4.9	66	46 - 86

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<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	251	54.4	5.4	9.9	55	38 - 71	255	128.2	15.5	12.1	130	89 - 167
All Alfa Wassermann Reagents	37	52.5	4.7	8.9	53	36 - 69	37	130.5	9.1	7.0	133	91 - 170
All Horiba Pentra Reagents	21	59.6	4.1	6.9	60	41 - 78	21	145.2	7.4	5.1	144	101 - 189
All Roche Integra/c111/c301/c501 Reagents	28	55.4	3.0	5.4	56	38 - 72	26	131.9	3.4	2.6	133	92 - 172
All Vital Diagnostics Reagents	14	51.5	4.4	8.5	51	36 - 67	14	121.6	6.9	5.7	123	85 - 159
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	43	27 - 52	3	-	-	-	96	66 - 124
All Chemistry Instruments	10	39.9	4.0	10.1	41	27 - 52	10	95.0	4.6	4.8	97	66 - 124
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	52.4	4.8	9.1	53	36 - 69	30	130.0	9.3	7.2	131	91 - 169
Beckman AU												
Beckman AU systems	35	50.0	4.0	8.0	51	34 - 65	35	124.9	9.6	7.7	124	87 - 163
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	59.4	4.0	6.8	60	41 - 78	20	144.5	6.9	4.8	144	101 - 188
Roche Integra												
Roche Integra	19	54.9	3.3	6.0	55	38 - 72	19	131.4	6.5	4.9	132	91 - 171
All Chemistry Instruments	20	54.9	3.2	5.9	55	38 - 72	20	131.4	6.3	4.8	132	91 - 171
Siemens Healthcare												
Siemens Dimension	11	59.5	4.0	6.6	60	41 - 78	11	146.7	5.3	3.6	146	102 - 191
Siemens Healthcare ALPi												
Siemens Dimension	34	58.2	3.6	6.2	58	40 - 76	34	145.1	4.7	3.2	145	101 - 189
All Chemistry Instruments	35	58.2	3.6	6.1	58	40 - 76	35	145.3	4.6	3.2	145	101 - 189
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	52.0	4.1	8.0	51	36 - 68	13	122.5	6.4	5.2	125	85 - 160
VITROS												
VITROS 250,350,500,700,750,950	37	55.6	4.0	7.2	56	38 - 73	37	110.4	6.0	5.5	111	77 - 144
All Chemistry Instruments	42	56.0	3.4	6.0	56	39 - 73	43	110.5	5.7	5.2	111	77 - 144

Alkaline Phosphatase (IU/L)

Specimen CH-5						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	254	146.9	18.5	12.6	150	102 - 191
All Alfa Wassermann Reagents	37	150.9	10.8	7.2	155	105 - 197
All Horiba Pentra Reagents	21	163.9	8.5	5.2	164	114 - 214
All Roche Integra/c111/c301/c501 Reagents	26	152.2	4.2	2.8	153	106 - 198
All Vital Diagnostics Reagents	14	140.9	8.4	6.0	141	98 - 184
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	113	77 - 145
All Chemistry Instruments	10	111.4	7.6	6.8	113	77 - 145
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	150.3	11.2	7.5	154	105 - 196
Beckman AU						
Beckman AU systems	35	142.5	10.3	7.2	143	99 - 186
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	163.1	7.8	4.8	164	114 - 213
Roche Integra						
Roche Integra	19	151.2	8.1	5.4	153	105 - 197
All Chemistry Instruments	20	151.3	7.9	5.2	153	105 - 197
Siemens Healthcare						
Siemens Dimension	11	169.0	5.9	3.5	167	118 - 220
Siemens Healthcare ALPi						
Siemens Dimension	33	167.6	4.5	2.7	168	117 - 218
All Chemistry Instruments	34	167.6	4.4	2.6	168	117 - 218
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	142.2	7.3	5.2	142	99 - 185
VITROS						
VITROS 250,350,500,700,750,950	36	122.6	6.3	5.1	123	85 - 160
All Chemistry Instruments	42	122.4	6.4	5.2	123	85 - 160

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<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	232	339.8	33.5	9.9	339	271 - 408	234	93.0	6.3	6.7	94	74 - 112
All Alfa Wassermann Reagents	38	308.9	8.9	2.9	309	247 - 371	39	87.0	3.3	3.8	87	69 - 105
All Horiba Pentra Reagents	21	341.2	10.3	3.0	338	272 - 410	21	96.6	3.6	3.8	96	77 - 116
All Roche Integra/c111/c301/c501 Reagents	27	342.0	13.2	3.9	344	273 - 411	27	95.5	3.7	3.8	96	76 - 115
All Vital Diagnostics Reagents	14	349.1	16.2	4.6	344	279 - 419	14	98.2	5.0	5.1	98	78 - 118
Abaxis Piccolo												
Abaxis Piccolo - waived	24	335.2	9.6	2.9	335	268 - 403	25	96.6	2.5	2.6	97	77 - 116
All Chemistry Instruments	33	335.0	9.5	2.8	335	268 - 402	34	96.9	2.5	2.6	97	77 - 117
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	308.2	9.1	3.0	309	246 - 370	32	86.8	3.4	3.9	86	69 - 105
Beckman AU												
Beckman AU systems	34	303.1	7.2	2.4	304	242 - 364	34	83.9	2.5	2.9	84	67 - 101
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	341.4	10.5	3.1	339	273 - 410	20	96.7	3.7	3.8	97	77 - 116
Roche Integra												
Roche Integra	19	340.4	14.5	4.2	341	272 - 409	19	95.6	4.2	4.4	96	76 - 115
Siemens Healthcare												
Siemens Dimension	44	348.1	10.6	3.0	348	278 - 418	45	92.0	3.1	3.4	92	73 - 111
All Chemistry Instruments	45	347.9	10.5	3.0	347	278 - 418	46	91.9	3.1	3.4	92	73 - 111
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	349.9	16.5	4.7	346	279 - 420	13	98.2	5.2	5.3	98	78 - 118
All Chemistry Instruments	14	349.1	16.2	4.6	344	279 - 419	14	98.2	5.0	5.1	98	78 - 118
VITROS												
VITROS 250,350,500,700,750,950	37	398.8	14.1	3.5	395	319 - 479	37	96.9	3.6	3.7	96	77 - 117
All Chemistry Instruments	42	398.0	14.4	3.6	395	318 - 478	43	97.1	3.9	4.0	97	77 - 117

AST (SGOT) (IU/L)

Specimen CH-3							Specimen CH-4					
<u>Instrument/Reagent</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	210	22.4	3.7	16.5	22	17 - 27	208	183.5	13.5	7.4	187	146 - 221
All Alfa Wassermann Reagents	39	17.3	2.0	11.3	17	13 - 21	39	170.2	5.1	3.0	169	136 - 205
All Horiba Pentra Reagents	20	25.2	1.8	7.1	25	20 - 31	20	189.2	4.8	2.5	189	151 - 228
All Roche Integra/c111/c301/c501 Reagents	27	22.4	1.4	6.1	22	17 - 27	26	191.0	5.7	3.0	192	152 - 230
All Vital Diagnostics Reagents	14	25.1	2.6	10.4	25	20 - 31	14	188.6	18.5	9.8	189	150 - 227
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	29	23 - 35	3	-	-	-	189	148 - 224
All Chemistry Instruments	10	28.9	1.7	6.0	30	23 - 35	10	186.1	4.4	2.4	187	148 - 224
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	17.2	1.8	10.5	17	13 - 21	32	170.7	5.3	3.1	170	136 - 205
Beckman AU												
Beckman AU systems	36	20.7	0.8	4.0	21	16 - 25	34	165.6	4.6	2.8	167	132 - 199
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	25.2	1.8	7.3	25	20 - 31	19	189.5	4.8	2.5	189	151 - 228
Roche Integra												
Roche Integra	19	22.3	1.6	7.2	22	17 - 27	19	189.6	8.0	4.2	191	151 - 228
Siemens Healthcare												
Siemens Dimension	44	20.9	1.7	7.9	21	16 - 26	45	189.5	6.0	3.2	189	151 - 228
All Chemistry Instruments	45	20.8	1.7	8.1	21	16 - 25	46	189.3	6.0	3.2	189	151 - 228
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	25.1	2.7	10.9	25	20 - 31	13	192.8	10.7	5.5	189	154 - 232
VITROS												
VITROS 250,350,500,700,750,950	37	23.9	1.1	4.5	24	19 - 29	37	198.3	7.1	3.6	199	158 - 238
All Chemistry Instruments	43	23.9	1.1	4.5	24	19 - 29	42	198.0	7.0	3.5	199	158 - 238

AST (SGOT) (IU/L)

Specimen CH-5

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	208	217.4	16.8	7.7	219	173 - 261
All Alfa Wassermann Reagents	39	203.0	5.7	2.8	202	162 - 244
All Horiba Pentra Reagents	21	222.6	9.7	4.3	221	178 - 268
All Roche Integra/c111/c301/c501 Reagents	27	222.8	8.0	3.6	224	178 - 268
All Vital Diagnostics Reagents	13	228.2	12.6	5.5	226	182 - 274
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	223	174 - 263
All Chemistry Instruments	10	218.5	5.8	2.7	219	174 - 263
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	32	202.7	5.6	2.8	202	162 - 244
Beckman AU						
Beckman AU systems	34	195.0	5.8	3.0	195	155 - 234
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	222.9	9.8	4.4	222	178 - 268
Roche Integra						
Roche Integra	19	222.4	9.2	4.1	224	177 - 267
Siemens Healthcare						
Siemens Dimension	45	222.7	6.8	3.0	223	178 - 268
All Chemistry Instruments	46	222.6	6.8	3.1	223	178 - 268
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	228.2	12.6	5.5	226	182 - 274
VITROS						
VITROS 250,350,500,700,750,950	36	238.5	8.3	3.5	236	190 - 287
All Chemistry Instruments	42	237.9	8.5	3.6	236	190 - 286

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<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	111	371.3	40.8	11.0	379	259 - 483	112	105.3	8.2	7.8	106	73 - 137
All Alfa Wassermann Reagents	16	358.9	12.1	3.4	359	251 - 467	16	107.6	3.5	3.3	107	75 - 140
All Roche Integra/c111/c301/c501 Reagents	10	380.9	77.7	20.4	402	266 - 496	10	111.7	4.1	3.7	112	78 - 146
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	357.5	13.4	3.7	358	250 - 465	11	107.5	3.8	3.6	106	75 - 140
Beckman AU												
Beckman AU systems	21	359.3	10.7	3.0	358	251 - 468	21	95.8	3.5	3.6	96	67 - 125
Siemens Healthcare CKI												
Siemens Dimension	18	406.0	7.2	1.8	405	284 - 528	20	110.4	3.1	2.8	110	77 - 144
VITROS												
VITROS 250,350,500,700,750,950	12	295.8	27.5	9.3	300	207 - 385	12	98.9	12.4	12.5	101	69 - 129
All Chemistry Instruments	15	295.3	24.4	8.3	299	206 - 384	15	99.8	11.2	11.2	101	69 - 130

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<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		69.0	7.3	10.6	71	48 - 90	113	209.4	16.9	8.1	211	146 - 273
All Alfa Wassermann Reagents	16	74.6	4.6	6.2	73	52 - 98	16	208.8	5.3	2.5	209	146 - 272
All Roche Integra/c111/c301/c501 Reagents	10	69.3	2.9	4.1	69	48 - 91	10	223.6	8.4	3.8	225	156 - 291
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	73.1	4.1	5.6	71	51 - 96	11	208.2	6.2	3.0	208	145 - 271
Beckman AU												
Beckman AU systems	21	58.3	2.0	3.4	58	40 - 76	21	193.8	6.1	3.2	195	135 - 252
Siemens Healthcare CKI												
Siemens Dimension	20	72.7	3.2	4.4	73	50 - 95	20	221.6	4.8	2.1	220	155 - 289
VITROS												
VITROS 250,350,500,700,750,950	12	70.7	7.2	10.1	72	49 - 92	12	188.2	17.7	9.4	190	131 - 245
All Chemistry Instruments	15	71.7	6.7	9.4	72	50 - 94	15	188.0	15.9	8.5	189	131 - 245

Creatine Kinase (IU/L)

Specimen CH-5

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	111	244.3	19.5	8.0	246	171 - 318
All Alfa Wassermann Reagents	16	242.2	7.3	3.0	241	169 - 315
All Roche Integra/c111/c301/c501 Reagents	10	261.6	10.4	4.0	261	183 - 341
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	241.4	8.6	3.6	241	168 - 314
Beckman AU						
Beckman AU systems	22	226.4	8.7	3.9	229	158 - 295
Siemens Healthcare CKI						
Siemens Dimension	20	260.6	5.8	2.2	259	182 - 339
VITROS						
VITROS 250,350,500,700,750,950	11	215.5	17.4	8.1	217	150 - 281
All Chemistry Instruments	14	215.2	15.7	7.3	217	150 - 280

GGT (IU/L)

Specimen CH-1							Specimen CH-2					
<u>Instrument/Reagent</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	69	231.7	37.8	16.3	225	156 - 308	69	66.8	15.3	22.9	60	36 - 98
All Roche Integra/c111/c301/c501 Reagents	11	215.3	5.2	2.4	214	172 - 259	11	57.6	0.9	1.6	58	46 - 70
Beckman AU												
Beckman AU systems	11	197.4	6.1	3.1	197	157 - 237	11	52.5	1.8	3.3	53	42 - 64
Siemens Healthcare												
Siemens Dimension	13	282.0	6.4	2.3	284	225 - 339	14	82.1	2.9	3.5	82	65 - 99
All Chemistry Instruments	14	282.4	6.3	2.2	284	225 - 339	15	81.9	2.9	3.5	82	65 - 99
Specimen CH-3							Specimen CH-4					
All Method	65	18.1	4.8	26.5	17	8 - 28	65	133.2	26.4	19.8	122	80 - 186
All Roche Integra/c111/c301/c501 Reagents	11	14.8	0.6	4.1	15	11 - 18	11	118.3	2.1	1.7	118	94 - 142
Beckman AU												
Beckman AU systems	11	14.1	0.5	3.8	14	11 - 17	11	107.4	3.2	3.0	108	85 - 129
Siemens Healthcare												
Siemens Dimension	14	25.7	2.7	10.6	26	20 - 32	14	158.7	4.2	2.6	159	126 - 191
All Chemistry Instruments	15	25.5	2.8	11.0	26	19 - 32	15	158.8	4.0	2.5	160	127 - 191
Specimen CH-5												
All Method	64	154.6	29.7	19.2	144	95 - 214						
All Roche Integra/c111/c301/c501 Reagents	10	139.1	3.0	2.2	139	111 - 167						
Beckman AU												
Beckman AU systems	11	125.9	3.6	2.8	126	100 - 152						
Siemens Healthcare												
Siemens Dimension	14	185.7	4.2	2.3	187	148 - 223						
All Chemistry Instruments	15	185.8	4.1	2.2	187	148 - 223						

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<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	87	183.4	46.2	25.2	200	128 - 239	86	47.3	10.1	21.4	51	33 - 62
Beckman AU												
Beckman AU systems	17	167.1	7.8	4.6	166	116 - 218	17	41.3	2.2	5.4	41	28 - 54
Siemens Healthcare												
Siemens Dimension	12	228.5	4.0	1.8	229	159 - 298	13	57.5	0.9	1.5	58	40 - 75
VITROS												
VITROS 250,350,500,700,750,950	15	104.8	5.9	5.6	104	73 - 137	15	31.3	1.1	3.6	31	21 - 41
All Chemistry Instruments	17	105.5	6.4	6.1	104	73 - 138	17	31.2	1.1	3.6	31	21 - 41
<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<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	82	22.9	5.0	21.7	23	16 - 30	82	100.2	23.9	23.8	108	70 - 131
Beckman AU												
Beckman AU systems	17	15.7	1.2	7.4	16	10 - 21	17	88.5	4.8	5.4	88	61 - 116
Siemens Healthcare												
Siemens Dimension	13	21.3	0.9	4.0	21	14 - 28	13	123.5	2.5	2.0	124	86 - 161
VITROS												
VITROS 250,350,500,700,750,950	13	30.0	0.1	0.0	30	21 - 39	15	63.3	5.5	8.7	63	44 - 83
All Chemistry Instruments	15	30.0	0.1	0.0	30	21 - 39	17	62.5	5.6	8.9	63	43 - 82
<u>Instrument/Reagent</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	81	118.0	27.3	23.1	128	82 - 154						
Beckman AU												
Beckman AU systems	17	104.2	5.2	5.0	104	72 - 136						
Siemens Healthcare												
Siemens Dimension	13	145.0	2.7	1.8	145	101 - 189						
VITROS												
VITROS 250,350,500,700,750,950	14	73.8	5.8	7.8	73	51 - 96						
All Chemistry Instruments	16	73.6	6.1	8.2	73	51 - 96						

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<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	63	663.1	71.8	10.8	699	530 - 796	63	158.8	16.4	10.3	166	127 - 191
All Alfa Wassermann Reagents	5	490.8	9.1	1.9	492	392 - 589	5	128.6	6.2	4.8	127	102 - 155
All Horiba Pentra Reagents	7	713.0	38.2	5.4	710	570 - 856	7	170.0	13.0	7.7	170	136 - 204
All Roche Integra/c111/c301/c501 Reagents	16	711.2	15.3	2.2	715	568 - 854	16	173.8	4.6	2.6	174	139 - 209
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	490.8	9.1	1.9	492	392 - 589	5	128.6	6.2	4.8	127	102 - 155
Beckman AU												
Beckman AU systems	14	621.3	37.7	6.1	607	497 - 746	14	144.9	8.6	5.9	144	115 - 174
Horiba ABX Pentra												
Horiba ABX Pentra 400	6	722.8	30.6	4.2	719	578 - 868	6	172.7	12.0	6.9	172	138 - 208
Roche Integra												
Roche Integra	11	704.0	12.3	1.7	701	563 - 845	11	175.3	3.8	2.2	176	140 - 211
Siemens Healthcare LDI												
Siemens Dimension	8	688.3	13.9	2.0	693	550 - 826	8	162.6	5.0	3.1	163	130 - 196
All Chemistry Instruments	9	690.0	14.0	2.0	696	552 - 828	9	161.7	5.5	3.4	163	129 - 195
VITROS												
VITROS 250,350,500,700,750,950	8	2370.5	159.3	6.7	2373	1896 - 2845	8	555.5	13.6	2.5	561	444 - 667
All Chemistry Instruments	12	2332.0	228.0	9.8	2303	1865 - 2799	12	554.2	12.4	2.2	557	443 - 666
<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<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	63	91.4	11.8	12.9	95	73 - 110	63	349.3	37.4	10.7	362	279 - 420
All Alfa Wassermann Reagents	5	71.4	5.1	7.2	72	57 - 86	5	268.8	10.3	3.8	269	215 - 323
All Horiba Pentra Reagents	7	104.3	11.1	10.6	104	83 - 126	7	377.1	32.4	8.6	362	301 - 453
All Roche Integra/c111/c301/c501 Reagents	16	99.0	3.4	3.4	100	79 - 119	16	380.0	5.6	1.5	379	304 - 456
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	71.4	5.1	7.2	72	57 - 86	5	268.8	10.3	3.8	269	215 - 323
Beckman AU												
Beckman AU systems	14	83.1	5.3	6.4	83	66 - 100	14	322.8	17.9	5.5	322	258 - 388
Horiba ABX Pentra												
Horiba ABX Pentra 400	6	106.8	9.6	9.0	105	85 - 129	6	382.8	31.5	8.2	373	306 - 460
Roche Integra												
Roche Integra	11	99.7	3.1	3.1	100	79 - 120	11	380.0	5.9	1.6	379	304 - 456
Siemens Healthcare LDI												
Siemens Dimension	8	93.8	2.7	2.8	94	75 - 113	8	359.6	11.2	3.1	361	287 - 432
All Chemistry Instruments	9	93.7	2.5	2.7	94	74 - 113	9	359.2	10.6	2.9	359	287 - 432
VITROS												
VITROS 250,350,500,700,750,950	8	251.4	17.9	7.1	255	201 - 302	8	1195.9	19.9	1.7	1197	956 - 1436
All Chemistry Instruments	12	248.4	16.5	6.7	252	198 - 299	12	1195.3	25.5	2.1	1185	956 - 1435

Lactate Dehydrogenase (IU/L)

Specimen CH-5

All Method	63	414.1	44.5	10.7	437	331 - 497
All Alfa Wassermann Reagents	5	316.0	10.6	3.3	312	252 - 380
All Horiba Pentra Reagents	7	433.3	37.8	8.7	438	346 - 520
All Roche Integra/c111/c301/c501 Reagents	16	449.8	7.2	1.6	451	359 - 540
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	5	316.0	10.6	3.3	312	252 - 380
Beckman AU						
Beckman AU systems	14	382.5	20.6	5.4	385	306 - 459
Horiba ABX Pentra						
Horiba ABX Pentra 400	6	438.3	38.8	8.8	443	350 - 526
Roche Integra						
Roche Integra	11	449.4	8.1	1.8	450	359 - 540
Siemens Healthcare LDI						
Siemens Dimension	8	430.1	15.4	3.6	428	344 - 517
All Chemistry Instruments	9	432.2	15.7	3.6	430	345 - 519
VITROS						
VITROS 250,350,500,700,750,950	8	1457.4	40.3	2.8	1469	1165 - 1749
All Chemistry Instruments	12	1448.1	49.1	3.4	1451	1158 - 1738

Lipase (IU/L)

Specimen CH-1							Specimen CH-2					
<u>Instrument/Reagent</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	27	57.9	6.3	10.9	65	40 - 76	25	24.9	3.6	14.6	28	17 - 33
All Roche Integra/c111/c301/c501 Reagents	6	60.3	4.0	6.7	62	42 - 79	6	25.8	1.5	5.7	27	18 - 34
Beckman AU												
Beckman AU systems	9	60.7	4.7	7.8	60	42 - 79	9	23.7	1.9	7.9	24	16 - 31
Siemens Healthcare												
Siemens Dimension	9	254.7	5.9	2.3	254	178 - 332	9	109.8	3.1	2.8	109	76 - 143
VITROS												
VITROS 250,350,500,700,750,950	8	691.8	20.4	3.0	689	484 - 900	8	322.4	10.1	3.1	321	225 - 420
All Chemistry Instruments	10	689.5	26.0	3.8	689	482 - 897	10	318.6	13.8	4.3	319	223 - 415
Specimen CH-3							Specimen CH-4					
All Method	25	14.8	6.1	41.3	17	10 - 20	26	39.0	3.6	9.3	42	27 - 51
All Roche Integra/c111/c301/c501 Reagents	6	12.2	1.0	8.1	13	8 - 16	6	39.2	2.2	5.7	40	27 - 51
Beckman AU												
Beckman AU systems	9	14.0	1.3	9.4	14	9 - 19	9	38.1	2.3	6.1	38	26 - 50
Siemens Healthcare												
Siemens Dimension	9	52.2	3.3	6.3	52	36 - 68	9	166.7	3.2	1.9	166	116 - 217
VITROS												
VITROS 250,350,500,700,750,950	8	233.6	9.2	3.9	233	163 - 304	8	487.8	14.2	2.9	490	341 - 635
All Chemistry Instruments	10	230.5	10.5	4.5	232	161 - 300	10	482.7	19.3	4.0	486	337 - 628
Specimen CH-5												
All Method	27	42.7	4.4	10.3	46	29 - 56						
All Roche Integra/c111/c301/c501 Reagents	6	44.2	2.8	6.3	45	30 - 58						
Beckman AU												
Beckman AU systems	9	42.8	2.8	6.5	43	29 - 56						
Siemens Healthcare												
Siemens Dimension	9	185.4	3.0	1.6	186	129 - 242						
VITROS												
VITROS 250,350,500,700,750,950	8	538.5	16.0	3.0	540	376 - 701						
All Chemistry Instruments	10	533.9	22.0	4.1	540	373 - 695						

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	327.15	32.46	9.9	337.6	229.7 - 424.6	6	69.33	6.67	9.6	70.9	49.3 - 89.4
	Specimen CH-3						Specimen CH-4					
	<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	2.93	0.29	9.8	2.9	2.0 - 3.8	6	166.92	14.30	8.6	171.6	124.0 - 209.9
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	198.63	19.27	9.7	206.9	140.8 - 256.5						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	34.09	4.37	12.8	32.6	25.5 - 42.7	14	10.95	0.72	6.6	11.0	8.2 - 13.7
	Specimen CH-3						Specimen CH-4					
	<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	4.44	0.54	12.2	4.4	3.3 - 5.6	14	20.31	1.94	9.5	20.0	15.2 - 25.4
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	23.48	2.24	9.5	23.6	17.6 - 29.4						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	40.88	4.24	10.4	40.5	28.1 - 53.6	18	49.42	4.54	9.2	49.5	35.8 - 63.1
	Specimen CH-3						Specimen CH-4					
	<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	8.73	31.1	27.0	1.8 - 54.3	18	45.52	4.62	10.2	45.1	31.6 - 59.4
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	44.21	4.65	10.5	43.4	30.2 - 58.2						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	2.28	0.71	31.2	2.8	0.1 - 4.5	26	1.41	0.24	17.3	1.5	0.6 - 2.2
All Abbott Instruments	7	1.56	0.05	3.4	1.6	1.3 - 1.8	7	1.33	0.16	12.1	1.3	0.8 - 1.9
All TOSOH Instruments	8	4.94	0.29	5.9	4.8	4.0 - 5.9	8	3.01	0.28	9.3	3.1	2.1 - 3.9
Abbott Architect	7	1.56	0.05	3.4	1.6	1.3 - 1.8	7	1.33	0.16	12.1	1.3	0.8 - 1.9
Beckman ACCESS / 2 / Dxl	14	2.80	0.29	10.5	2.9	1.9 - 3.7	14	1.48	0.09	6.0	1.5	1.2 - 1.8
TOSOH ST AIA	6	4.90	0.30	6.1	4.8	4.0 - 5.8	6	2.97	0.31	10.6	3.0	2.0 - 4.0
	Specimen CH-3						Specimen CH-4					
	<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	0.25	0.08	32.0	0.2	0.0 - 0.5	26	1.76	0.30	17.1	1.9	0.8 - 2.7
All Abbott Instruments	7	0.29	0.04	13.2	0.3	0.1 - 0.4	7	1.57	0.08	4.8	1.6	1.3 - 1.8
All TOSOH Instruments	8	0.24	0.07	31.3	0.2	0.0 - 0.5	8	3.89	0.29	7.6	4.0	3.0 - 4.8
Abbott Architect	7	0.29	0.04	13.2	0.3	0.1 - 0.4	7	1.57	0.08	4.8	1.6	1.3 - 1.8
Beckman ACCESS / 2 / Dxl	14	0.21	0.07	30.9	0.2	0.0 - 0.5	14	1.91	0.12	6.4	1.9	1.5 - 2.3
TOSOH ST AIA	6	0.25	0.08	33.5	0.2	0.0 - 0.6	6	3.88	0.34	8.8	4.0	2.8 - 5.0
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	1.85	0.37	20.0	2.0	0.7 - 3.0						
All Abbott Instruments	7	1.57	0.10	6.1	1.6	1.2 - 1.9						
All TOSOH Instruments	8	4.09	0.32	7.9	4.1	3.1 - 5.1						
Abbott Architect	7	1.57	0.10	6.1	1.6	1.2 - 1.9						
Beckman ACCESS / 2 / Dxl	14	2.07	0.15	7.2	2.1	1.6 - 2.6						
TOSOH ST AIA	6	4.05	0.35	8.7	4.1	2.9 - 5.2						

Free T₃ (pg/mL)

Specimen CH-1							Specimen CH-2					
<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	40	5.52	0.74	13.4	5.6	3.3 - 7.8	40	4.42	0.68	15.3	4.6	2.3 - 6.5
All TOSOH Instruments	12	11.56	0.97	8.4	11.4	8.6 - 14.5	12	8.30	1.08	13.0	8.4	5.0 - 11.6
Beckman ACCESS / 2 / Dxl	19	5.22	0.32	6.1	5.2	4.2 - 6.2	19	4.07	0.36	8.7	4.0	3.0 - 5.2
Specimen CH-3							Specimen CH-4					
All Method	40	0.55	0.36	65.2	0.5	0.0 - 1.7	40	5.06	0.61	12.1	5.0	3.2 - 6.9
All TOSOH Instruments	11	0.47	0.16	34.2	0.5	0.0 - 1.0	12	9.55	0.91	9.5	9.6	6.8 - 12.3
Beckman ACCESS / 2 / Dxl	18	0.43	0.26	61.5	0.5	0.0 - 1.3	19	4.75	0.27	5.7	4.7	3.9 - 5.6
Specimen CH-5												
All Method	40	5.09	0.62	12.3	5.0	3.2 - 7.0						
All TOSOH Instruments	12	10.38	0.91	8.8	10.1	7.6 - 13.2						
Beckman ACCESS / 2 / Dxl	19	4.78	0.29	6.0	4.7	3.9 - 5.7						

Thyroxine (µg/dL)

Specimen CH-1							Specimen CH-2					
<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	20	16.54	1.98	12.0	15.0	13.2 - 19.9	20	9.78	0.81	8.3	9.9	7.8 - 11.8
Beckman ACCESS / 2 / Dxl	14	13.99	0.86	6.1	14.0	11.1 - 16.8	14	10.34	0.79	7.6	10.5	8.2 - 12.5
Specimen CH-3							Specimen CH-4					
All Method	19	0.56	0.24	42.4	0.5	0.0 - 1.6	20	12.45	1.11	8.9	12.2	9.9 - 15.0
Beckman ACCESS / 2 / Dxl	14	0.18	0.29	164.6	0.1	0.0 - 1.2	14	12.07	0.74	6.1	12.1	9.6 - 14.5
Specimen CH-5												
All Method	20	13.30	1.26	9.5	12.8	10.6 - 16.0						
Beckman ACCESS / 2 / Dxl	14	12.29	0.81	6.6	12.3	9.8 - 14.8						

Free Thyroxine (ng/dL)

Specimen CH-1							Specimen CH-2					
<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	163	3.52	0.84	23.8	3.6	1.0 - 6.1	161	3.90	0.65	16.6	3.8	1.9 - 5.9
All Roche Elecsys/Cobas Instruments	11	3.96	0.22	5.7	3.9	3.2 - 4.7	11	3.97	0.18	4.7	3.9	3.4 - 4.6
All TOSOH Instruments	35	4.16	0.36	8.7	4.1	3.0 - 5.3	36	4.53	0.38	8.3	4.5	3.3 - 5.7
Abbott Architect	14	4.70	0.42	8.9	4.8	3.4 - 6.0	14	3.69	0.26	7.1	3.7	2.9 - 4.5
Beckman ACCESS / 2 / Dxl	55	2.68	0.11	4.2	2.7	2.3 - 3.1	55	3.24	0.13	4.0	3.2	2.8 - 3.7
Siemens Dimension	26	3.73	0.22	5.8	3.7	3.0 - 4.4	26	4.27	0.41	9.7	4.3	3.0 - 5.6
TOSOH AIA	18	4.17	0.41	9.8	4.2	2.9 - 5.4	19	4.54	0.40	8.9	4.4	3.3 - 5.8
TOSOH ST AIA	17	4.15	0.32	7.8	4.1	3.1 - 5.2	17	4.52	0.36	8.0	4.5	3.4 - 5.6

Specimen CH-3							Specimen CH-4					
All Method	159	0.15	0.14	94.0	0.1	0.0 - 0.6	163	3.62	0.67	18.5	3.7	1.6 - 5.7
All Roche Elecsys/Cobas Instruments	10	0.10	0.01	0.0	0.1	0.0 - 0.2	11	3.88	0.23	5.9	3.8	3.2 - 4.6
All TOSOH Instruments	31	0.08	0.04	54.9	0.1	0.0 - 0.3	36	4.28	0.30	7.0	4.3	3.3 - 5.2
Abbott Architect	14	0.40	0.01	0.0	0.4	0.3 - 0.5	14	4.16	0.35	8.4	4.1	3.1 - 5.3
Beckman ACCESS / 2 / Dxl	53	0.08	0.10	118.7	0.1	0.0 - 0.4	55	2.87	0.13	4.6	2.9	2.4 - 3.3
Siemens Dimension	26	0.10	0.08	74.5	0.1	0.0 - 0.4	26	3.87	0.29	7.5	3.8	3.0 - 4.8
TOSOH AIA	16	0.08	0.04	59.6	0.1	0.0 - 0.3	19	4.30	0.30	7.1	4.3	3.3 - 5.3
TOSOH ST AIA	15	0.08	0.04	51.8	0.1	0.0 - 0.3	17	4.25	0.30	7.2	4.3	3.3 - 5.2

Specimen CH-5						
All Method	163	3.58	0.71	19.9	3.7	1.4 - 5.8
All Roche Elecsys/Cobas Instruments	11	3.85	0.21	5.5	3.9	3.2 - 4.5
All TOSOH Instruments	36	4.19	0.34	8.0	4.2	3.1 - 5.3
Abbott Architect	14	4.38	0.49	11.3	4.3	2.8 - 5.9
Beckman ACCESS / 2 / Dxl	55	2.79	0.12	4.3	2.8	2.4 - 3.2
Siemens Dimension	26	3.82	0.21	5.4	3.8	3.2 - 4.5
TOSOH AIA	19	4.22	0.37	8.8	4.2	3.0 - 5.4
TOSOH ST AIA	17	4.17	0.30	7.2	4.2	3.2 - 5.1

TSH (μU/mL)

Specimen CH-1							Specimen CH-2					
<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	217	9.09	1.38	15.2	8.9	4.9 - 13.3	217	3.38	0.60	17.6	3.3	1.5 - 5.2
All Abbott Instruments	16	7.49	0.39	5.1	7.6	6.3 - 8.7	16	3.12	0.20	6.5	3.1	2.5 - 3.8
All Roche Elecsys/Cobas Instruments	13	8.66	0.34	3.9	8.7	7.6 - 9.7	13	3.78	0.13	3.4	3.8	3.4 - 4.2
All TOSOH Instruments	50	10.83	0.59	5.4	10.9	9.0 - 12.6	50	4.20	0.29	6.8	4.3	3.3 - 5.1
Abbott Architect	16	7.49	0.39	5.1	7.6	6.3 - 8.7	16	3.12	0.20	6.5	3.1	2.5 - 3.8
Beckman ACCESS / 2 / Dxl	65	8.69	0.67	7.7	8.7	6.6 - 10.8	65	3.20	0.22	6.7	3.2	2.5 - 3.9
Qualigen FastPack	10	8.69	0.69	7.9	8.9	6.6 - 10.8	10	3.22	0.27	8.3	3.4	2.4 - 4.1
Roche cobas e 411	10	8.62	0.37	4.3	8.6	7.5 - 9.8	10	3.80	0.14	3.7	3.8	3.3 - 4.3
Siemens Dimension	35	7.78	0.93	11.9	7.9	5.0 - 10.6	35	2.67	0.29	10.9	2.7	1.7 - 3.6
TOSOH AIA	24	10.87	0.59	5.4	11.0	9.1 - 12.7	24	4.20	0.28	6.7	4.3	3.3 - 5.1
TOSOH ST AIA	26	10.78	0.60	5.5	10.7	8.9 - 12.6	26	4.21	0.30	7.1	4.3	3.3 - 5.2

Specimen CH-3							Specimen CH-4					
All Method	210	0.05	0.06	113.4	0.0	0.0 - 0.3	218	5.75	0.91	15.7	5.6	3.0 - 8.5
All Abbott Instruments	16	0.03	0.06	192.7	0.0	0.0 - 0.3	16	5.01	0.25	5.0	5.0	4.2 - 5.8
All Roche Elecsys/Cobas Instruments	13	0.05	0.05	112.4	0.0	0.0 - 0.3	13	6.04	0.22	3.7	6.0	5.3 - 6.8
All TOSOH Instruments	46	0.06	0.05	88.2	0.1	0.0 - 0.3	50	6.96	0.47	6.7	7.0	5.5 - 8.4
Abbott Architect	16	0.03	0.06	192.7	0.0	0.0 - 0.3	16	5.01	0.25	5.0	5.0	4.2 - 5.8
Beckman ACCESS / 2 / Dxl	64	0.05	0.06	141.4	0.0	0.0 - 0.3	65	5.50	0.34	6.2	5.4	4.4 - 6.6
Qualigen FastPack	9	-	-	-	0.1	0.0 - 0.3	10	5.67	0.38	6.7	5.7	4.5 - 6.9
Roche cobas e 411	10	0.04	0.05	129.1	0.0	0.0 - 0.2	10	6.05	0.25	4.1	6.1	5.2 - 6.9
Siemens Dimension	35	0.05	0.06	122.6	0.0	0.0 - 0.3	34	4.66	0.47	10.1	4.7	3.2 - 6.1
TOSOH AIA	21	0.05	0.05	97.7	0.1	0.0 - 0.3	24	6.95	0.48	6.9	7.0	5.5 - 8.4
TOSOH ST AIA	25	0.07	0.06	81.9	0.1	0.0 - 0.3	26	6.97	0.47	6.7	7.0	5.5 - 8.4

Specimen CH-5						
All Method	217	6.49	1.00	15.5	6.4	3.4 - 9.5
All Abbott Instruments	16	5.56	0.23	4.2	5.6	4.8 - 6.3
All Roche Elecsys/Cobas Instruments	13	6.67	0.24	3.5	6.6	5.9 - 7.4
All TOSOH Instruments	50	7.83	0.47	5.9	7.9	6.4 - 9.3
Abbott Architect	16	5.56	0.23	4.2	5.6	4.8 - 6.3
Beckman ACCESS / 2 / Dxl	65	6.27	0.34	5.4	6.3	5.2 - 7.3
Qualigen FastPack	10	6.16	0.66	10.7	6.3	4.1 - 8.2
Roche cobas e 411	10	6.67	0.26	3.9	6.6	5.8 - 7.5
Siemens Dimension	35	5.31	0.57	10.7	5.4	3.6 - 7.1
TOSOH AIA	24	7.87	0.55	7.0	7.9	6.2 - 9.6
TOSOH ST AIA	26	7.80	0.38	4.9	7.9	6.6 - 9.0

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-1		Specimen HCG-2	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	147	147	-
AimStep Combo Pregnancy	-	1	1	-
Beckman ACCESS / 2 / Dxl	-	1	1	-
Beckman Coulter ICON 25 hCG	-	4	4	-
bioMerieux Vidas, Mini Vidas	-	1	1	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	14	14	-
Henry Schein One Step + Combo	-	6	6	-
LifeSign Status hCG	-	1	1	-
Medline hCG Combo Test Cassette	-	1	1	-
NDC Pro Advantage	-	1	1	-
Polymedco Poly stat hCG	-	1	1	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	10	10	-
Quidel QuickVue One-Step Combo	-	83	83	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	3	3	-
Sure-Vue hCG-STAT	-	1	1	-

<u>Method</u>	Specimen HCG-3		Specimen HCG-4	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	147	147	-
AimStep Combo Pregnancy	-	1	1	-
Beckman ACCESS / 2 / Dxl	-	1	1	-
Beckman Coulter ICON 25 hCG	-	4	4	-
bioMerieux Vidas, Mini Vidas	-	1	1	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	14	14	-
Henry Schein One Step + Combo	-	6	6	-
LifeSign Status hCG	-	1	1	-
Medline hCG Combo Test Cassette	-	1	1	-
NDC Pro Advantage	-	1	1	-
Polymedco Poly stat hCG	-	1	1	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	10	10	-
Quidel QuickVue One-Step Combo	-	83	83	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	3	3	-
Sure-Vue hCG-STAT	-	1	1	-

Serum hCG – Qualitative

Specimen HCG-5

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	147	-
AimStep Combo Pregnancy	1	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 25 hCG	4	-
bioMerieux Vidas, Mini Vidas	1	-
BTNX Rapid Response hCG	1	-
Cardinal Health SP Brand combo	9	-
CONSULT diagnostics hCG Combo	14	-
Henry Schein One Step + Combo	6	-
LifeSign Status hCG	1	-
Medline hCG Combo Test Cassette	1	-
NDC Pro Advantage	1	-
Polymedco Poly stat hCG	1	-
PSS Select hCG Combo	2	-
Quidel QuickVue + One-Step	10	-
Quidel QuickVue One-Step Combo	83	-
Quidel QuickVue Semi-Q hCG	1	-
Sekisui OSOM hCG Combo Test	2	-
Stanbio QUPID Plus	3	-
Sure-View hCG-STAT	1	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-1						Specimen HCG-2					
	<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	1.5	1.4	92.0	1	0 - 6	28	203.6	33.0	16.2	202	104 - 303
<u>Method</u>	Specimen HCG-3						Specimen HCG-4					
	<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	1.5	1.4	92.0	1	0 - 6	27	1091.8	205.1	18.8	1081	476 - 1707
<u>Method</u>	Specimen HCG-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	27	203.7	34.7	17.1	201	99 - 308						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	257	239.4	12.1	5.1	237	215 - 264	255	125.2	5.5	4.4	125	112 - 138
All Alfa Wassermann Reagents	36	236.4	5.9	2.5	237	212 - 261	36	127.9	2.9	2.3	128	115 - 141
All Horiba Pentra Reagents	16	241.1	6.2	2.6	241	216 - 266	16	128.3	2.5	1.9	129	115 - 142
All Roche Integra/c111/c301/c501 Reagents	19	238.1	7.4	3.1	237	214 - 262	19	126.4	3.4	2.7	126	113 - 140
All Vital Diagnostics Reagents	15	244.1	10.4	4.3	244	219 - 269	15	128.6	6.4	5.0	128	115 - 142
Alere Cholestech LDX												
Alere Cholestech LDX - waived	36	261.4	13.1	5.0	261	235 - 288	35	129.0	6.8	5.3	129	116 - 142
All Chemistry Instruments	40	259.9	13.4	5.2	260	233 - 286	39	128.6	6.6	5.2	128	115 - 142
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	35	236.6	6.0	2.5	237	212 - 261	35	128.0	2.9	2.3	128	115 - 141
Beckman AU												
Beckman AU systems	31	229.8	4.5	2.0	231	206 - 253	30	122.1	2.6	2.1	123	109 - 135
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	241.1	6.2	2.6	241	216 - 266	16	128.3	2.5	1.9	129	115 - 142
Roche Integra												
Roche Integra	12	235.5	6.0	2.6	235	211 - 260	12	126.3	3.4	2.7	126	113 - 139
Siemens Healthcare												
Siemens Dimension	38	232.1	6.8	2.9	230	208 - 256	39	124.5	3.5	2.8	124	112 - 137
All Chemistry Instruments	39	232.1	6.7	2.9	230	208 - 256	40	124.6	3.6	2.9	125	112 - 138
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	246.1	8.9	3.6	245	221 - 271	13	129.1	6.8	5.2	128	116 - 142
All Chemistry Instruments	14	244.4	10.7	4.4	245	219 - 269	14	128.6	6.7	5.2	128	115 - 142
VITROS												
VITROS 250,350,500,700,750,950	28	241.1	7.6	3.2	242	216 - 266	27	117.7	2.8	2.3	118	105 - 130
All Chemistry Instruments	32	242.3	7.9	3.3	244	218 - 267	32	117.7	2.8	2.4	118	105 - 130

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	210	45.2	2.9	6.4	45	40 - 50	216	166.7	5.2	3.1	166	150 - 184
All Alfa Wassermann Reagents	36	46.2	1.8	3.8	46	41 - 51	36	168.8	4.7	2.8	169	151 - 186
All Horiba Pentra Reagents	16	44.8	1.6	3.5	45	40 - 50	16	169.0	3.1	1.8	169	152 - 186
All Roche Integra/c111/c301/c501 Reagents	19	44.3	1.8	4.0	44	39 - 49	19	167.8	4.3	2.5	168	151 - 185
All Vital Diagnostics Reagents	14	45.4	2.7	5.9	46	40 - 50	14	169.6	11.3	6.7	172	152 - 187
Alere Cholestech LDX												
Alere Cholestech LDX - waived	7	-	-	-	100	90 - 110	8	-	-	-	180	163 - 201
All Chemistry Instruments	8	-	-	-	100	90 - 110	9	-	-	-	179	161 - 198
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	35	46.3	1.8	3.8	46	41 - 51	35	168.9	4.7	2.8	169	152 - 186
Beckman AU												
Beckman AU systems	30	42.0	1.2	2.8	42	37 - 47	30	162.6	3.3	2.0	163	146 - 179
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	44.8	1.6	3.5	45	40 - 50	16	169.0	3.1	1.8	169	152 - 186
Roche Integra												
Roche Integra	12	43.8	1.3	3.1	44	39 - 49	12	167.7	4.6	2.8	168	150 - 185
Siemens Healthcare												
Siemens Dimension	37	47.1	3.1	6.6	48	42 - 52	39	164.3	4.0	2.5	164	147 - 181
All Chemistry Instruments	38	47.2	3.1	6.6	49	42 - 52	40	164.5	4.2	2.5	164	148 - 181
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	45.6	2.7	5.9	46	41 - 51	13	171.3	9.6	5.6	172	154 - 189
VITROS												
VITROS 250,350,500,700,750,950	26	46.3	2.1	4.6	45	41 - 51	27	166.0	3.2	1.9	166	149 - 183
All Chemistry Instruments	31	46.9	2.4	5.1	45	42 - 52	32	166.5	3.8	2.3	166	149 - 184

Cholesterol, Total (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	216	181.3	6.1	3.4	180	163 - 200
All Alfa Wassermann Reagents	36	182.6	4.9	2.7	182	164 - 201
All Horiba Pentra Reagents	15	183.5	4.2	2.3	183	165 - 202
All Roche Integra/c111/c301/c501 Reagents	19	183.3	5.2	2.8	184	164 - 202
All Vital Diagnostics Reagents	14	185.4	7.8	4.2	187	166 - 204
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	203	181 - 222
All Chemistry Instruments	9	-	-	-	202	179 - 220
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	35	182.7	4.9	2.7	182	164 - 202
Beckman AU						
Beckman AU systems	30	176.0	3.2	1.8	176	158 - 194
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	183.5	4.2	2.3	183	165 - 202
Roche Integra						
Roche Integra	12	182.8	5.7	3.1	182	164 - 202
Siemens Healthcare						
Siemens Dimension	39	178.5	4.8	2.7	178	160 - 197
All Chemistry Instruments	40	178.6	4.7	2.7	178	160 - 197
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	186.4	7.3	3.9	188	167 - 206
VITROS						
VITROS 250,350,500,700,750,950	27	181.4	5.5	3.0	181	163 - 200
All Chemistry Instruments	32	181.8	5.3	2.9	181	163 - 201

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-1							Specimen CH-2					
<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	158	96.1	17.4	18.1	97	61 - 131	189	47.5	14.6	30.8	49	18 - 77
Calculated-Trig/5												
Alere Cholestech LDX - waived	12	122.2	38.1	31.2	115	46 - 199	30	48.2	9.6	20.0	46	28 - 68
Alfa Wassermann ACE Alera/Axcel	25	106.4	9.6	9.0	107	74 - 139	25	60.9	4.7	7.7	61	42 - 80
Beckman AU systems	21	86.9	7.7	8.8	86	60 - 113	21	50.9	4.7	9.1	50	35 - 67
Horiba ABX Pentra 400	13	111.8	8.0	7.2	113	78 - 146	13	64.5	6.7	10.4	65	45 - 84
Siemens Dimension	19	89.0	7.9	8.9	88	62 - 116	20	26.1	6.3	24.2	25	13 - 39
Vital Diagnostics Envoy 500	12	98.8	19.1	19.3	98	60 - 138	12	56.0	9.3	16.5	54	37 - 75
VITROS 250,350,500,700,750,950	20	74.4	14.2	19.2	75	45 - 103	20	35.8	5.8	16.1	35	24 - 48
All Chemistry Instruments	150	95.5	18.1	19.0	96	59 - 132	177	47.5	14.8	31.2	49	17 - 78
Specimen CH-3							Specimen CH-4					
All Method	100	17.3	9.2	53.4	21	0 - 36	159	64.0	14.6	22.8	63	34 - 94
Calculated-Trig/5												
Alere Cholestech LDX - waived	1	-	-	-	100	70 - 130	8	-	-	-	71	34 - 93
Alfa Wassermann ACE Alera/Axcel	21	25.5	2.6	10.2	26	17 - 34	25	76.7	6.6	8.6	77	53 - 100
Beckman AU systems	17	18.1	2.9	16.3	18	12 - 24	21	64.0	6.0	9.3	63	44 - 84
Horiba ABX Pentra 400	11	24.4	1.9	7.8	24	17 - 32	13	80.4	5.3	6.6	79	56 - 105
Siemens Dimension	5	-	-	-	4	0 - 36	20	46.3	6.2	13.4	46	32 - 61
Vital Diagnostics Envoy 500	11	18.4	6.2	33.5	18	6 - 31	12	70.6	11.8	16.7	74	47 - 95
VITROS 250,350,500,700,750,950	7	-	-	-	4	0 - 36	20	51.5	7.2	13.9	52	36 - 67
All Chemistry Instruments	94	17.5	9.1	52.1	21	0 - 36	148	63.8	14.5	22.8	63	34 - 93
Specimen CH-5												
All Method	156	69.7	15.0	21.5	70	39 - 100						
Calculated-Trig/5												
Alere Cholestech LDX - waived	7	-	-	-	87	39 - 100						
Alfa Wassermann ACE Alera/Axcel	25	82.2	8.1	9.9	82	57 - 107						
Beckman AU systems	20	68.0	4.6	6.8	68	47 - 89						
Horiba ABX Pentra 400	13	85.2	8.0	9.4	87	59 - 111						
Siemens Dimension	20	53.1	8.0	15.1	53	37 - 70						
Vital Diagnostics Envoy 500	12	76.6	11.1	14.4	78	53 - 100						
VITROS 250,350,500,700,750,950	20	55.0	9.1	16.5	54	36 - 74						
All Chemistry Instruments	146	69.5	14.9	21.5	70	39 - 100						

LDL Cholesterol - Direct (mg/dL)

Specimen CH-1							Specimen CH-2					
<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	68	87.9	13.4	15.3	88	61 - 115	68	33.6	9.4	28.0	32	14 - 53
Beckman AU Direct HDL / LDL												
Beckman AU systems	15	74.1	4.5	6.1	74	51 - 97	15	26.0	1.7	6.7	26	18 - 34
Siemens Automated LDL												
Siemens Dimension	16	93.7	7.6	8.1	92	65 - 122	16	36.5	5.4	14.7	35	25 - 48
All Chemistry Instruments	17	93.0	7.9	8.5	91	65 - 121	17	35.9	5.7	15.8	35	24 - 48
Specimen CH-3							Specimen CH-4					
All Method	65	6.4	3.6	55.9	6	0 - 14	68	52.9	11.3	21.3	50	30 - 76
Beckman AU Direct HDL / LDL												
Beckman AU systems	15	4.7	2.0	43.4	4	0 - 9	15	43.9	2.8	6.4	44	30 - 58
Siemens Automated LDL												
Siemens Dimension	15	6.1	3.4	56.1	6	0 - 14	16	57.7	6.5	11.3	56	40 - 75
All Chemistry Instruments	16	6.0	3.4	56.1	6	0 - 13	17	57.0	6.9	12.1	55	39 - 75
Specimen CH-5												
All Method	68	60.3	12.2	20.3	58	35 - 85						
Beckman AU Direct HDL / LDL												
Beckman AU systems	15	49.9	3.2	6.4	50	34 - 65						
Siemens Automated LDL												
Siemens Dimension	16	64.8	6.9	10.6	63	45 - 85						
All Chemistry Instruments	17	64.1	7.2	11.3	63	44 - 84						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	241	97.3	9.2	9.4	98	68 - 127	251	66.7	13.7	20.6	65	46 - 87
All Dex-Sulfate 50,000 MW Methods	43	100.7	4.1	4.1	100	70 - 131	44	68.5	7.1	10.3	69	47 - 90
All Direct Methods	147	95.4	9.0	9.5	97	66 - 124	150	65.9	15.9	24.2	59	46 - 86
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	99.3	1.4	1.4	100	69 - 130	33	69.1	7.3	10.6	69	48 - 90
All Chemistry Instruments	37	99.2	1.4	1.4	100	69 - 130	37	68.6	7.6	11.1	69	48 - 90
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	24	87.4	7.2	8.2	87	61 - 114	24	54.1	5.0	9.3	52	37 - 71
Beckman AU Direct HDL / LDL												
Beckman AU systems	24	98.4	5.3	5.4	98	68 - 128	24	58.5	3.6	6.1	58	40 - 77
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	87.1	5.8	6.6	88	60 - 114	15	51.5	3.9	7.5	52	36 - 67
Roche HDL Direct												
All Chemistry Instruments	15	99.3	5.5	5.6	98	69 - 130	15	87.1	3.8	4.3	87	60 - 114
Siemens Automated HDL												
Siemens Dimension	32	100.9	4.9	4.9	101	70 - 132	31	88.0	3.8	4.4	89	61 - 115
All Chemistry Instruments	33	100.8	4.9	4.9	101	70 - 132	32	87.9	3.8	4.3	89	61 - 115
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	10	103.4	14.5	14.1	101	72 - 135	10	61.0	10.4	17.1	62	42 - 80
All Chemistry Instruments	10	103.4	14.5	14.1	101	72 - 135	11	60.7	9.9	16.4	61	42 - 79
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	22	115.1	13.3	11.5	110	80 - 150	22	69.4	3.4	4.9	69	48 - 91
All Chemistry Instruments	26	115.3	13.4	11.6	110	80 - 150	26	69.5	3.3	4.7	69	48 - 91

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	214	30.7	10.4	33.9	27	21 - 40	218	79.6	13.3	16.7	79	55 - 104
All Dex-Sulfate 50,000 MW Methods	16	40.8	2.2	5.5	41	28 - 54	16	86.9	7.1	8.1	88	60 - 114
All Direct Methods	142	28.7	10.6	36.8	24	20 - 38	146	78.1	14.2	18.1	74	54 - 102
Alere Cholestech LDX												
Alere Cholestech LDX - waived	8	-	-	-	43	28 - 54	8	-	-	-	87	60 - 114
All Chemistry Instruments	9	-	-	-	43	29 - 55	9	-	-	-	90	60 - 113
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	24	19.7	2.3	11.7	20	13 - 26	24	66.0	5.1	7.7	66	46 - 86
Beckman AU Direct HDL / LDL												
Beckman AU systems	24	23.5	2.7	11.5	24	16 - 31	24	73.8	4.6	6.2	73	51 - 96
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	19.5	1.6	8.0	20	13 - 26	15	64.6	3.7	5.7	65	45 - 84
Roche HDL Direct												
All Chemistry Instruments	15	42.1	1.6	3.8	42	29 - 55	15	94.7	4.4	4.6	94	66 - 124
Siemens Automated HDL												
Siemens Dimension	31	43.1	2.4	5.6	43	30 - 57	32	95.4	4.7	4.9	96	66 - 125
All Chemistry Instruments	32	43.2	2.4	5.5	44	30 - 57	33	95.3	4.6	4.9	96	66 - 124
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	10	23.6	5.1	21.8	24	16 - 31	10	77.7	12.8	16.5	76	54 - 102
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	22	39.5	2.5	6.2	40	27 - 52	22	88.2	5.2	5.9	87	61 - 115
All Chemistry Instruments	26	39.7	2.4	6.0	40	27 - 52	26	88.5	4.9	5.5	89	61 - 116

Cholesterol, HDL (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	216	84.3	12.6	14.9	83	59 - 110
All Dex-Sulfate 50,000 MW Methods	15	91.7	8.2	8.9	93	64 - 120
All Direct Methods	147	82.5	13.1	15.9	79	57 - 108
Alere Cholestech LDX						
Alere Cholestech LDX - waived	7	-	-	-	86	64 - 120
All Chemistry Instruments	8	-	-	-	87	61 - 115
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	24	71.3	6.0	8.4	71	49 - 93
Beckman AU Direct HDL / LDL						
Beckman AU systems	24	78.0	4.3	5.5	78	54 - 102
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	70.0	4.3	6.2	70	49 - 91
Roche HDL Direct						
All Chemistry Instruments	15	96.9	4.6	4.8	97	67 - 127
Siemens Automated HDL						
Siemens Dimension	32	98.3	5.1	5.2	99	68 - 128
All Chemistry Instruments	33	98.1	5.1	5.2	99	68 - 128
Vital Diagnostics Direct						
Vital Diagnostics Envoy 500	10	83.5	12.8	15.3	82	58 - 109
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	21	95.1	5.7	6.0	95	66 - 124
All Chemistry Instruments	25	95.1	5.5	5.8	95	66 - 124

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<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	249	225.4	12.7	5.6	222	169 - 282	246	61.8	4.9	7.9	62	46 - 78
All Alfa Wassermann Reagents	36	217.8	8.0	3.7	219	163 - 273	36	68.0	2.6	3.9	69	51 - 85
All Horiba Pentra Reagents	15	211.3	8.2	3.9	215	158 - 265	15	62.1	3.6	5.9	63	46 - 78
All Roche Integra/c111/c301/c501 Reagents	18	217.4	10.0	4.6	214	163 - 272	17	64.6	3.0	4.6	64	48 - 81
All Vital Diagnostics Reagents	14	222.4	17.3	7.8	219	166 - 279	14	63.8	10.6	16.6	64	47 - 80
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	229.0	9.8	4.3	231	171 - 287	32	58.7	3.1	5.3	59	44 - 74
All Chemistry Instruments	37	229.4	10.0	4.4	232	172 - 287	35	58.5	3.2	5.4	58	43 - 74
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	35	217.9	8.1	3.7	219	163 - 273	35	68.0	2.7	3.9	69	51 - 85
Beckman AU												
Beckman AU systems	31	222.0	6.9	3.1	222	166 - 278	31	61.9	2.2	3.5	62	46 - 78
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	211.3	8.2	3.9	215	158 - 265	15	62.1	3.6	5.9	63	46 - 78
Roche Integra												
Roche Integra	11	211.6	6.3	3.0	210	158 - 265	10	62.8	1.6	2.6	63	47 - 79
Siemens Healthcare												
Siemens Dimension	39	221.9	5.6	2.5	221	166 - 278	39	56.7	2.0	3.6	57	42 - 71
All Chemistry Instruments	40	222.3	6.1	2.7	221	166 - 278	39	56.7	2.0	3.6	57	42 - 71
Vital Diagnostics												
Vital Diagnostics Envoy 500	12	216.9	8.8	4.0	218	162 - 272	12	60.9	6.6	10.8	63	45 - 77
All Chemistry Instruments	13	218.7	10.6	4.8	219	164 - 274	13	61.5	6.7	10.8	63	46 - 77
VITROS												
VITROS 250,350,500,700,750,950	28	244.0	7.0	2.9	243	183 - 306	28	60.3	1.4	2.4	61	45 - 76
All Chemistry Instruments	33	244.5	7.4	3.0	243	183 - 306	33	60.4	1.7	2.7	61	45 - 76

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<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	196	7.7	5.2	66.9	9	5 - 10	216	123.3	5.7	4.6	123	92 - 155
All Alfa Wassermann Reagents	34	9.9	3.1	30.9	9	7 - 13	36	125.2	4.9	3.9	126	93 - 157
All Horiba Pentra Reagents	14	2.9	2.1	71.5	3	2 - 4	16	119.9	6.8	5.7	122	89 - 150
All Roche Integra/c111/c301/c501 Reagents	17	4.6	3.4	72.6	3	3 - 6	18	124.3	5.5	4.4	124	93 - 156
All Vital Diagnostics Reagents	11	7.5	6.8	91.3	3	5 - 10	13	119.5	6.2	5.2	120	89 - 150
Alere Cholestech LDX												
Alere Cholestech LDX - waived	0	-	-	-	0	Not graded	8	-	-	-	123	92 - 154
All Chemistry Instruments	0	-	-	-	0	Not graded	9	-	-	-	122	91 - 153
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	10.0	3.1	31.3	9	7 - 13	35	125.3	5.0	4.0	126	93 - 157
Beckman AU												
Beckman AU systems	31	5.1	4.0	77.9	3	3 - 7	31	123.0	3.9	3.2	123	92 - 154
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	2.9	2.1	71.5	3	2 - 4	16	119.9	6.8	5.7	122	89 - 150
Roche Integra												
Roche Integra	11	2.9	2.2	74.5	2	2 - 4	11	121.2	3.9	3.2	121	90 - 152
Siemens Healthcare												
Siemens Dimension	35	10.5	7.3	69.3	15	7 - 14	39	119.5	3.2	2.6	119	89 - 150
All Chemistry Instruments	36	10.3	7.3	71.2	15	7 - 13	39	119.5	3.2	2.6	119	89 - 150
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	6.2	5.7	91.5	3	4 - 8	12	120.1	6.1	5.1	122	90 - 151
VITROS												
VITROS 250,350,500,700,750,950	26	9.2	0.4	4.7	9	6 - 12	28	127.3	3.7	2.9	127	95 - 160
All Chemistry Instruments	31	9.4	0.5	5.2	9	7 - 12	33	127.4	3.7	2.9	127	95 - 160

NOTE: Specimen CH-3 was an ungraded challenge due to low analyte concentration.

Triglycerides (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	144.1	6.2	4.3	143	108 - 181
All Alfa Wassermann Reagents	36	144.6	4.9	3.4	145	108 - 181
All Horiba Pentra Reagents	16	140.5	5.5	3.9	142	105 - 176
All Roche Integra/c111/c301/c501 Reagents	18	143.2	5.7	4.0	141	107 - 180
All Vital Diagnostics Reagents	13	141.5	6.9	4.9	143	106 - 177
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	144	98 - 165
All Chemistry Instruments	9	-	-	-	143	98 - 164
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	35	144.6	4.9	3.4	145	108 - 181
Beckman AU						
Beckman AU systems	31	143.0	4.4	3.1	143	107 - 179
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	140.5	5.5	3.9	142	105 - 176
Roche Integra						
Roche Integra	11	139.9	3.4	2.5	140	104 - 175
Siemens Healthcare						
Siemens Dimension	38	140.6	2.9	2.1	140	105 - 176
All Chemistry Instruments	38	140.6	2.9	2.1	140	105 - 176
Vital Diagnostics						
Vital Diagnostics Envoy 500	12	141.0	6.9	4.9	142	105 - 177
VITROS						
VITROS 250,350,500,700,750,950	27	150.1	4.6	3.1	150	112 - 188
All Chemistry Instruments	32	150.0	4.6	3.0	150	112 - 188

Acetaminophen (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	135.53	11.93	8.8	141.5	101.6 - 169.5	5	37.70	6.75	17.9	40.5	28.2 - 47.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.80	1.23	21.2	6.3	4.3 - 7.3	5	72.77	6.93	9.5	76.1	54.5 - 91.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	85.27	8.12	9.5	89.5	63.9 - 106.6						

Carbamazepine (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	15.04	0.61	4.0	14.8	11.2 - 18.8	5	5.36	0.36	6.7	5.3	4.0 - 6.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.96	0.36	12.1	3.0	2.2 - 3.7	5	9.30	0.47	5.1	9.5	6.9 - 11.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	10.18	0.86	8.5	10.1	7.6 - 12.8						

Digoxin (ng/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	2.88	0.36	12.6	2.9	2.3 - 3.5	10	1.24	0.11	8.7	1.2	0.9 - 1.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	0.79	0.07	9.3	0.8	0.5 - 1.0	10	1.91	0.20	10.6	1.9	1.5 - 2.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	2.08	0.19	9.0	2.1	1.6 - 2.5						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	11.05	0.21	1.9	11.1	8.2 - 13.9	5	2.90	0.14	4.9	2.9	2.1 - 3.7
	Specimen CH-3						Specimen CH-4					
	<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	1.00	0.01	0.0	1.0	0.7 - 1.3	5	6.00	0.14	2.4	6.0	4.5 - 7.5
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	7.00	0.01	0.0	7.0	5.2 - 8.8						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	2.55	0.07	2.8	2.6	2.0 - 3.1	5	0.80	0.01	0.0	0.8	0.5 - 1.1
	Specimen CH-3						Specimen CH-4					
	<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	0.35	0.07	20.2	0.4	0.0 - 0.7	5	1.45	0.07	4.9	1.5	1.1 - 1.8
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.70	0.01	0.0	1.7	1.3 - 2.1						

Phenobarbital (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	46.30	0.85	1.8	46.3	37.0 - 55.6		5	13.60	0.71	5.2	13.6	10.8 - 16.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	6.00	0.57	9.4	6.0	4.8 - 7.2		5	26.30	1.13	4.3	26.3	21.0 - 31.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Range</u>	<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>								
All Method	5	30.60	1.84	6.0	30.6	24.4 - 36.8							

Phenytoin (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	31.64	1.29	4.1	31.3	23.7 - 39.6		11	11.46	0.36	3.1	11.4	8.5 - 14.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	6.93	0.37	5.4	6.9	5.1 - 8.7		11	19.56	1.09	5.6	20.0	14.6 - 24.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Range</u>	<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>								
All Method	10	21.08	1.96	9.3	21.6	15.8 - 26.4							

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	32.80	1.27	3.9	32.8	24.6 - 41.0	5	12.00	0.57	4.7	12.0	9.0 - 15.0
	Specimen CH-3						Specimen CH-4					
	<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	6.65	1.34	20.2	6.7	4.9 - 8.4	5	19.40	0.57	2.9	19.4	14.5 - 24.3
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	21.85	0.78	3.6	21.9	16.3 - 27.4						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	36.20	2.02	5.6	37.0	27.1 - 45.3	5	14.90	1.10	7.4	14.9	11.1 - 18.7
	Specimen CH-3						Specimen CH-4					
	<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	9.73	0.84	8.6	9.3	7.2 - 12.2	5	23.50	1.59	6.8	24.1	17.6 - 29.4
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	25.80	1.78	6.9	26.4	19.3 - 32.3						

Valproic Acid (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	124.48	7.70	6.2	123.1	93.3 - 155.7	6	55.68	3.22	5.8	55.4	41.7 - 69.7
	Specimen CH-3						Specimen CH-4					
	<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	35.25	2.75	7.8	36.4	26.4 - 44.1	6	80.68	5.53	6.8	79.7	60.5 - 100.9
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	89.10	4.46	5.0	88.9	66.8 - 111.4						

Vancomycin (µg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<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	52.20	1.91	3.7	51.2	39.1 - 65.3	5	11.90	1.15	9.7	11.5	8.9 - 14.9
	Specimen CH-3						Specimen CH-4					
	<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	1.53	0.45	29.4	1.5	1.1 - 2.0	5	28.27	1.99	7.0	29.1	21.2 - 35.4
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	33.10	1.10	3.3	33.1	24.8 - 41.4						

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-1						Specimen LP-2					
	<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	-	-	-	254	Not graded	1	-	-	-	139	Not graded

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-1						Specimen LP-2					
	<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	125.0	14.0	11.2	119	93 - 157	3	69.0	5.6	8.1	68	51 - 87

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-1						Specimen NB-2					
	<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	11.93	0.49	4.1	11.9	9.5 - 14.4	23	0.08	0.13	161.8	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	12	12.27	0.37	3.0	12.4	9.8 - 14.8	12	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	16	12.13	0.42	3.5	12.1	9.7 - 14.6	16	0.12	0.23	197.4	0.0	0.0 - 0.6
<u>Method</u>	Specimen NB-3						Specimen NB-4					
	<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	18.79	0.98	5.2	19.1	15.0 - 22.6	24	6.10	0.29	4.8	6.1	4.8 - 7.4
No Reagent Required												
Bilirubinometer / Unistat	12	19.44	0.66	3.4	19.6	15.5 - 23.4	12	5.96	0.18	3.1	6.0	4.7 - 7.2
All Chemistry Instruments	16	19.17	0.83	4.3	19.3	15.3 - 23.1	16	6.07	0.29	4.8	6.1	4.8 - 7.3
<u>Method</u>	Specimen NB-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	24	16.58	0.94	5.7	16.8	13.2 - 19.9						
No Reagent Required												
Bilirubinometer / Unistat	12	17.28	0.51	3.0	17.4	13.8 - 20.8						
All Chemistry Instruments	16	16.98	0.79	4.6	17.2	13.5 - 20.4						

Bilirubin, Direct (mg/dL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen NB-1					Specimen NB-2				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	4.10	0.35	8.6	4.1	3.3 - 4.9		11	0.03	0.05	171.3	0.0 - 0.2
			Specimen NB-3					Specimen NB-4				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	3.31	1.11	33.7	3.6	1.0 - 5.6		11	0.89	0.12	13.7	0.6 - 1.2
			Specimen NB-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	5.35	0.66	12.3	5.4	4.0 - 6.7						

Blood Gases – pH

	Specimen BG-1						Specimen BG-2					
<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	12	7.537	0.005	0.1	7.54	7.49 - 7.58	12	7.503	0.008	0.1	7.51	7.46 - 7.55
i-STAT	12	7.537	0.005	0.1	7.54	7.49 - 7.58	12	7.503	0.008	0.1	7.51	7.46 - 7.55
	Specimen BG-3						Specimen BG-4					
All Method	12	7.182	0.008	0.1	7.18	7.14 - 7.23	12	7.232	0.004	0.1	7.23	7.19 - 7.28
i-STAT	12	7.182	0.008	0.1	7.18	7.14 - 7.23	12	7.232	0.004	0.1	7.23	7.19 - 7.28
	Specimen BG-5											
All Method	12	7.293	0.005	0.1	7.29	7.25 - 7.34						
i-STAT	12	7.293	0.005	0.1	7.29	7.25 - 7.34						

Blood Gases - pCO₂ (mmHg)

Specimen BG-1							Specimen BG-2					
<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	12	29.00	0.99	3.4	29.1	24.0 - 34.0	12	26.28	0.89	3.4	26.1	21.2 - 31.3
i-STAT	12	29.00	0.99	3.4	29.1	24.0 - 34.0	12	26.28	0.89	3.4	26.1	21.2 - 31.3
Specimen BG-3							Specimen BG-4					
All Method	12	58.70	2.10	3.6	59.5	53.7 - 63.7	12	50.15	1.94	3.9	49.9	45.1 - 55.2
i-STAT	12	58.70	2.10	3.6	59.5	53.7 - 63.7	12	50.15	1.94	3.9	49.9	45.1 - 55.2
Specimen BG-5												
All Method	12	43.92	1.72	3.9	44.0	38.9 - 49.0						
i-STAT	12	43.92	1.72	3.9	44.0	38.9 - 49.0						

Blood Gases - pO₂ (mmHg)

Specimen BG-1							Specimen BG-2					
<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	105.60	4.04	3.8	106.0	93.4 - 117.8	11	135.40	5.46	4.0	136.0	119.0 - 151.8
i-STAT	11	105.60	4.04	3.8	106.0	93.4 - 117.8	11	135.40	5.46	4.0	136.0	119.0 - 151.8
Specimen BG-3							Specimen BG-4					
All Method	11	80.20	6.72	8.4	80.0	60.0 - 100.4	11	176.20	3.11	1.8	175.0	166.8 - 185.6
i-STAT	11	80.20	6.72	8.4	80.0	60.0 - 100.4	11	176.20	3.11	1.8	175.0	166.8 - 185.6
Specimen BG-5												
All Method	11	159.40	4.34	2.7	159.0	146.3 - 172.5						
i-STAT	11	159.40	4.34	2.7	159.0	146.3 - 172.5						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-1 through BG-5 are: 0.9 mmol/L , 1.4 mmol/L, 2.1 mmol/L, 0.59 mmol/L, 1.01 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-1 through BG-5 are: 107 mmol/L, 82 mmol/L, 76 mmol/L, 117 mmol/L, 99 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-1 through BG-5 are: 6.8 mmol/L, 4.1 mmol/L, 2.7 mmol/L, 6.6 mmol/L, 4.5 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-1 through BG-5 are: 167 mmol/L, 144 mmol/L, 126 mmol/L, 167 mmol/L, 154 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

<u>Method</u>	Specimen BG-1						Specimen BG-2					
	<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	0.95	0.07	7.4	0.95	0.5 - 1.4	5	1.45	0.07	4.8	1.45	1.0 - 1.9
	Specimen BG-3						Specimen BG-4					
	<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	4.6	0.14	3.0	4.6	4.1 - 5.1	5	3.25	0.07	2.2	3.25	2.8 - 3.7
	Specimen BG-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	2.2	0.14	6.4	2.2	1.7 - 2.7						

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-1						Specimen AFN-2					
	<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>
Axis-Shield Afinion AS100	71	8.14	0.15	1.9	8.1	7.6 - 8.7	73	6.11	0.13	2.2	6.1	5.7 - 6.5

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<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	15.356	2.513	16.4	14.34	10.33 - 20.39	5	0.306	0.022	7.2	0.30	0.26 - 0.35

Insulin (μU/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<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	105.65	37.32	35.3	115.7	31.0 - 180.3	15	13.04	2.71	20.8	14.2	7.6 - 18.5

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<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	36	37.0	5.2	14.2	37	26 - 48	38	5.0	2.4	48.1	5	0 - 10
All TOSOH Instruments	11	42.5	14.3	33.7	38	13 - 72	11	5.0	1.2	23.7	5	2 - 8
Beckman ACCESS / 2 / Dxl	13	34.6	4.1	11.9	33	26 - 43	13	4.5	1.3	27.9	4	2 - 8

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

<u>Method</u>	Specimen CIP-1						Specimen CIP-2					
	<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	108	100.80	22.46	22.3	103.1	55.8 - 145.8	107	18.16	7.57	41.7	16.2	3.0 - 33.3
All Roche Instruments	10	55.48	7.99	14.4	55.2	39.4 - 71.5	10	6.90	1.83	26.5	6.4	3.2 - 10.6
All TOSOH Instruments	22	114.54	5.24	4.6	116.4	104.0 - 125.1	22	27.76	1.95	7.0	28.1	23.8 - 31.7
Abbott Architect	12	96.88	8.25	8.5	96.0	80.3 - 113.4	12	17.12	3.15	18.4	17.1	10.8 - 23.5
Beckman ACCESS / 2 / Dxl	35	105.87	11.58	10.9	104.1	82.7 - 129.1	35	12.81	2.20	17.1	12.8	8.4 - 17.2
Immuno Diagnostic Systems (IDS) - EIA	5	98.62	19.24	19.5	100.0	60.1 - 137.1	4	-	-	-	23.4	3.0 - 33.3
Qualigen FastPack	9	76.78	7.70	10.0	78.6	61.3 - 92.2	9	22.00	4.80	21.8	21.2	12.4 - 31.6
Roche cobas e 411	9	53.53	5.41	10.1	53.5	42.7 - 64.4	9	6.66	1.76	26.4	5.6	3.1 - 10.2
TOSOH AIA	14	114.87	3.98	3.5	115.9	106.9 - 122.9	14	27.36	2.15	7.9	27.9	23.0 - 31.7
TOSOH ST AIA	8	113.96	7.23	6.3	117.4	99.4 - 128.5	8	28.46	1.38	4.8	29.1	25.7 - 31.3

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<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	-	-	-	137	Not graded	1	-	-	-	258	Not graded

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<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	-	-	-	70	Not graded	2	-	-	-	61	Not graded

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

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<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	70.500	11.729	16.6	72.30	35.31 - 105.69	11	58.136	14.406	24.8	55.30	14.91 - 101.36
Beckman ACCESS / 2 / Dxl	5	72.240	10.712	14.8	70.40	40.10 - 104.38	5	58.360	10.039	17.2	58.20	28.24 - 88.48
Siemens Immulite/1000	5	68.760	13.682	19.9	74.20	27.71 - 109.81	5	51.920	12.051	23.2	54.20	15.76 - 88.08

Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-1						Specimen SHB-2					
	<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	778.7	209.6	26.9	755	545 - 1013	10	567.5	108.0	19.0	603	397 - 738
All Immulite Instruments	4	983.0	57.1	5.8	976	688 - 1278	4	643.5	51.7	8.0	644	450 - 837
Beckman ACCESS / 2 / Dxl	4	608.0	115.5	19.0	602	425 - 791	5	533.0	112.4	21.1	550	373 - 693
Siemens Immulite/1000	4	983.0	57.1	5.8	976	688 - 1278	4	643.5	51.7	8.0	644	450 - 837

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-1						Specimen GH-2					
	<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	189	5.62	0.21	3.7	5.6	5.2 - 6.0	189	11.10	0.55	4.9	11.1	10.4 - 11.8
All Hemoglobin A1c Methods	187	5.61	0.21	3.7	5.6	5.2 - 6.0	187	11.11	0.55	4.9	11.1	10.4 - 11.8
All TOSOH Methods	22	5.64	0.12	2.2	5.6	5.2 - 6.0	23	10.89	0.32	3.0	10.9	10.2 - 11.6
Beckman AU A1c	16	5.45	0.14	2.5	5.5	5.1 - 5.8	16	10.90	0.45	4.2	10.8	10.2 - 11.6
Siemens DCA Vantage	81	5.65	0.16	2.8	5.7	5.3 - 6.0	78	11.45	0.42	3.7	11.4	10.7 - 12.2
Siemens Dimension HB1C	30	5.57	0.14	2.6	5.6	5.2 - 6.0	31	10.55	0.25	2.4	10.5	9.9 - 11.2
TOSOH G8	20	5.63	0.11	2.0	5.6	5.2 - 6.0	21	10.91	0.29	2.6	10.9	10.2 - 11.6

BNP (pg/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<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	46	501.83	111.14	22.1	458.0	279.5 - 724.2	46	2809.08	617.89	22.0	2630.0	1573.3 - 4044.9
Alere Triage	31	466.23	63.00	13.5	453.0	340.2 - 592.3	31	2592.58	482.93	18.6	2590.0	1626.7 - 3558.5
i-STAT - moderate	11	470.20	42.27	9.0	461.0	352.6 - 587.8	11	2701.00	383.55	14.2	2817.0	1933.8 - 3468.2
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<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	25	57.91	22.62	39.1	58.8	12.6 - 103.2	25	1689.43	332.95	19.7	1340.0	1023.5 - 2355.4
Alere Triage	14	61.52	9.53	15.5	59.8	42.4 - 80.6	14	1361.50	236.66	17.4	1305.0	888.1 - 1834.9
i-STAT - moderate	11	50.20	7.95	15.8	48.0	34.3 - 66.1	11	1742.20	269.18	15.5	1822.0	1203.8 - 2280.6
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	941.51	176.37	18.7	839.0	588.7 - 1294.3						
Alere Triage	14	816.93	147.94	18.1	792.0	521.0 - 1112.9						
i-STAT - moderate	11	962.40	91.85	9.5	953.0	721.8 - 1203.0						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<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	49	16.04	2.42	15.1	6.5	8.7 - 23.4	49	99.28	19.51	19.7	35.8	40.7 - 157.8
Alere Triage	26	5.29	0.94	17.8	5.2	2.4 - 8.2	26	29.48	5.40	18.3	28.3	13.2 - 45.7
Dade Stratus CS	12	16.52	0.66	4.0	16.5	14.5 - 18.5	12	98.28	3.68	3.7	97.5	87.2 - 109.4
Siemens Dimension	11	15.78	0.49	3.1	15.6	14.3 - 17.3	11	111.80	5.35	4.8	109.6	95.7 - 127.9
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<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	49	5.52	1.11	20.1	2.3	2.1 - 8.9	49	51.91	10.00	19.3	19.6	21.9 - 82.0
Alere Triage	26	1.85	0.39	21.3	1.9	0.6 - 3.1	26	16.36	2.43	14.8	16.3	9.0 - 23.7
Dade Stratus CS	12	5.62	0.19	3.5	5.7	5.0 - 6.2	12	51.65	1.77	3.4	51.8	46.3 - 57.0
Siemens Dimension	11	4.72	0.31	6.6	4.7	3.7 - 5.7	11	55.88	3.70	6.6	56.2	44.7 - 67.0
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	49	27.47	4.38	15.9	10.4	14.3 - 40.7						
Alere Triage	26	9.05	1.32	14.6	9.2	5.0 - 13.1						
Dade Stratus CS	12	28.27	1.09	3.8	28.5	25.0 - 31.6						
Siemens Dimension	11	28.60	0.85	3.0	28.8	26.0 - 31.2						

D-Dimer (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<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	40	813.6	165.0	20.3	778	483 - 1144	40	2570.3	643.2	25.0	2220	1283 - 3857
Alere Triage	24	767.0	55.0	7.2	765	536 - 998	24	2181.3	218.1	10.0	2180	1526 - 2836
Dade Stratus CS	11	896.8	62.4	7.0	869	627 - 1166	11	2900.8	226.8	7.8	2801	2030 - 3772
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<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	40	507.0	53.1	10.5	554	354 - 660	40	1653.3	378.3	22.9	1505	896 - 2410
Alere Triage	23	577.7	49.8	8.6	583	404 - 751	23	1471.7	158.1	10.7	1440	1030 - 1914
Dade Stratus CS	11	522.0	38.7	7.4	516	365 - 679	11	1789.2	129.0	7.2	1774	1252 - 2326
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	40	1128.0	240.4	21.3	1010	647 - 1609						
Alere Triage	23	986.8	104.7	10.6	987	690 - 1283						
Dade Stratus CS	11	1212.2	99.3	8.2	1194	848 - 1576						

D-Dimer (µgFEU/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<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	-	-	-	1.85	Not graded	1	-	-	-	4.20	Not graded
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<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	-	-	-	1.40	Not graded	1	-	-	-	3.20	Not graded
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	2.00	Not graded						

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<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	73.83	19.11	25.9	78.3	35.6 - 112.1	26	416.78	94.46	22.7	322.0	227.8 - 605.7
Alere Triage	21	82.32	14.15	17.2	78.3	54.0 - 110.7	21	319.86	60.26	18.8	310.0	199.3 - 440.4
	Specimen CK-3						Specimen CK-4					
	<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	27.95	5.40	19.3	32.9	17.1 - 38.8	26	213.15	56.00	26.3	190.0	101.1 - 325.2
Alere Triage	21	32.59	9.68	29.7	33.2	13.2 - 52.0	20	192.85	23.65	12.3	189.0	134.9 - 250.8
	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	121.88	32.08	26.3	134.0	57.7 - 186.1						
Alere Triage	21	129.54	22.83	17.6	134.0	83.8 - 175.2						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<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	293.8	188.8	64.3	228	0 - 672	5	3187.8	1288.3	40.4	3094	611 - 5765
	Specimen CK-3						Specimen CK-4					
	<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	17.0	5.2	30.6	14	6 - 28	5	1077.3	358.8	33.3	926	359 - 1795
	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	449.0	147.4	32.8	394	154 - 744						

Troponin I (ng/mL)

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<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	51	3.114	3.982	127.8	0.46	0.00 - 11.08	51	12.508	13.045	104.3	7.76	0.00 - 38.60
All HS Troponin I Methods	12	6.415	4.005	62.4	4.63	0.00 - 14.43	12	48.789	21.130	43.3	40.25	6.52 - 91.05
Alere Triage	26	0.386	0.106	27.5	0.37	0.17 - 0.60	27	8.419	1.809	21.5	7.87	4.80 - 12.04
Dade Stratus CS	12	0.488	0.020	4.2	0.49	0.34 - 0.64	12	3.955	0.171	4.3	4.00	2.76 - 5.15
Siemens Dimension	11	0.424	0.040	9.5	0.42	0.29 - 0.56	11	3.126	0.159	5.1	3.10	2.18 - 4.07
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<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	51	0.108	0.132	122.5	0.05	0.00 - 0.38	49	4.748	5.023	105.8	2.92	0.00 - 14.80
All HS Troponin I Methods	12	0.466	0.269	57.9	0.39	0.00 - 1.01	12	26.575	14.016	52.7	18.97	0.00 - 54.61
Alere Triage	26	0.050	0.001	0.0	0.05	0.03 - 0.07	27	3.206	0.850	26.5	3.03	1.50 - 4.91
Dade Stratus CS	12	0.035	0.005	15.6	0.04	0.02 - 0.05	12	1.987	0.048	2.4	1.98	1.39 - 2.59
Siemens Dimension	11	0.046	0.025	54.6	0.04	0.00 - 0.10	11	1.666	0.100	6.0	1.65	1.16 - 2.17
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	49	1.990	2.394	120.3	1.01	0.00 - 6.78						
All HS Troponin I Methods	12	13.053	7.795	59.7	9.29	0.00 - 28.65						
Alere Triage	27	1.111	0.316	28.4	1.10	0.47 - 1.75						
Dade Stratus CS	12	1.000	0.018	1.8	1.00	0.70 - 1.30						
Siemens Dimension	11	0.846	0.064	7.6	0.87	0.59 - 1.10						

PSA (ng/mL)

<u>Method</u>	Specimen PS-1						Specimen PS-2					
	<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	140	0.044	0.037	83.7	0.03	0.00 - 0.95	139	26.514	4.159	15.7	25.76	18.56 - 34.47
All TOSOH Instruments	34	0.061	0.063	104.2	0.05	0.00 - 0.97	36	22.303	1.100	4.9	22.15	15.61 - 29.00
Abbott Architect	12	0.009	0.005	56.4	0.01	0.00 - 0.91	13	22.652	1.842	8.1	22.75	15.85 - 29.45
Beckman ACCESS / 2 / Dxl	19	0.032	0.006	19.0	0.03	0.00 - 0.94	21	30.297	1.556	5.1	30.75	21.20 - 39.39
Beckman ACCESS Hybritech PSA	21	0.032	0.004	12.8	0.03	0.00 - 0.94	22	31.026	1.417	4.6	30.97	21.71 - 40.34
Siemens Dimension TPSA	21	0.074	0.054	72.2	0.09	0.00 - 0.98	21	25.225	1.176	4.7	25.26	17.65 - 32.80
TOSOH AIA	15	0.047	0.025	53.2	0.05	0.00 - 0.95	17	22.092	0.858	3.9	21.94	15.46 - 28.72
TOSOH ST AIA	17	0.046	0.032	69.7	0.05	0.00 - 0.95	19	22.492	1.272	5.7	22.66	15.74 - 29.24

Beta-2 microglobulin

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	0.359	0.098	27.3	0.30	0.06 - 0.66	11	3.966	0.195	4.9	3.94	3.38 - 4.56

CA 125 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	12.2	2.9	24.1	15	6 - 19	13	155.1	41.0	26.4	179	73 - 238
All TOSOH Instruments	10	18.3	1.3	6.8	19	12 - 24	10	268.5	13.4	5.0	267	187 - 350

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	11.4	1.2	10.6	11	7 - 15	11	56.8	15.2	26.8	54	26 - 88

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	13.2	4.0	30.0	15	5 - 22	10	194.9	95.4	49.0	239	4 - 386

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	37.2	8.0	21.6	39	21 - 54	11	311.1	72.8	23.4	314	165 - 457
All TOSOH Instruments	10	39.5	2.5	6.3	39	27 - 52	10	331.4	29.1	8.8	319	231 - 431

CEA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	0.53	0.14	26.2	0.7	0.0 - 1.8	14	43.48	7.98	18.4	49.8	30.4 - 56.6
All TOSOH Instruments	10	0.81	0.07	9.1	0.8	0.0 - 2.1	10	55.46	3.03	5.5	55.5	38.8 - 72.1

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	0.021	0.024	111.9	0.01	0.00 - 0.93	17	5.631	1.230	21.9	5.10	3.94 - 7.32

PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	40	0.049	0.033	66.7	0.05	0.00 - 0.95	40	5.882	1.117	19.0	5.94	4.11 - 7.65

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<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	1.67	1.06	63.7	2.3	0.0 - 3.8	6	93.13	40.58	43.6	67.9	11.9 - 174.4

CEA (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	0.99	0.18	18.3	1.2	0.0 - 2.2	35	29.85	4.00	13.4	30.8	20.8 - 38.9
All TOSOH Instruments	12	1.61	0.16	9.7	1.6	0.4 - 2.9	12	33.23	3.19	9.6	33.6	23.2 - 43.2
Beckman ACCESS / 2 / Dxl	10	1.08	0.15	14.0	1.1	0.0 - 2.3	10	31.58	3.01	9.5	30.8	22.1 - 41.1
TOSOH ST AIA	11	1.55	0.13	8.3	1.6	0.4 - 2.9	11	31.90	3.39	10.6	31.8	23.2 - 43.2

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	45.66	10.62	23.3	42.9	31.9 - 59.4	12	413.46	45.77	11.1	411.4	289.4 - 537.5
Beckman ACCESS / 2 / Dxl	6	44.10	4.55	10.3	45.7	30.8 - 57.4	6	409.90	31.82	7.8	422.7	286.9 - 532.9

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	33	31.8	13.1	41.1	28	5 - 59	33	520.4	165.9	31.9	446	188 - 853
All TOSOH Instruments	10	27.4	8.2	29.9	26	11 - 44	10	431.3	39.9	9.3	440	351 - 512

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	48	19.9	2.6	13.1	15	13 - 26	48	281.7	46.9	16.7	221	197 - 367
All Abbott Instruments	10	21.2	1.3	6.2	21	14 - 28	10	345.5	13.8	4.0	345	241 - 450
All TOSOH Instruments	27	13.0	0.9	7.2	13	9 - 17	26	204.2	10.4	5.1	205	142 - 266
Abbott Architect	10	21.2	1.3	6.2	21	14 - 28	10	345.5	13.8	4.0	345	241 - 450
Beckman ACCESS / 2 / Dxl	37	14.4	1.1	7.6	14	10 - 19	37	216.8	11.8	5.4	216	151 - 282
TOSOH AIA	11	13.2	0.9	6.6	13	9 - 18	11	204.6	10.2	5.0	205	143 - 267
TOSOH ST AIA	16	12.9	1.0	7.7	13	9 - 17	16	201.3	14.6	7.3	197	140 - 262

Folate (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	25	0.87	0.74	84.7	0.7	0.0 - 1.8	25	8.32	2.65	31.9	9.5	5.8 - 10.9
All Roche Elecsys/Cobas Instruments	7	1.80	0.53	29.4	2.0	0.9 - 2.7	8	8.16	1.33	16.3	8.1	5.7 - 10.7
All Siemens Dimension Instruments	5	0.52	0.04	8.6	0.5	0.0 - 1.5	5	4.60	0.43	9.4	4.8	3.2 - 6.0
All TOSOH Instruments	14	1.24	0.47	38.4	1.1	0.3 - 2.2	14	6.18	1.09	17.6	5.9	4.3 - 8.1
Abbott Architect	5	0.06	0.09	149.1	0.0	0.0 - 1.0	5	11.40	0.35	3.1	11.5	7.9 - 14.9
Beckman ACCESS / 2 / Dxl	39	0.62	0.31	50.0	0.6	0.0 - 1.6	39	10.27	0.87	8.5	10.3	7.1 - 13.4
Roche cobas e 411	6	2.00	0.01	0.0	2.0	1.1 - 2.9	6	8.13	1.53	18.8	8.1	5.6 - 10.6
TOSOH AIA	11	1.24	0.51	41.1	1.1	0.3 - 2.2	11	6.14	0.78	12.7	5.9	4.2 - 8.0

FSH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	38	10.94	1.54	14.0	10.7	8.2 - 13.7	38	51.17	4.04	7.9	51.2	38.3 - 64.0
Beckman ACCESS / 2 / Dxl	13	10.73	0.85	7.9	10.8	8.0 - 13.5	13	49.76	4.48	9.0	49.3	37.3 - 62.3

Homocysteine (μmol/L)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	7.2	1.0	13.7	7	5 - 9	11	69.7	17.7	25.4	82	52 - 88

LH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	38	4.24	0.56	13.2	4.3	3.1 - 5.4	38	36.52	8.10	22.2	33.9	20.3 - 52.8
Beckman ACCESS / 2 / Dxl	14	4.22	0.30	7.1	4.3	3.6 - 4.9	14	32.14	2.43	7.6	32.1	27.2 - 37.1

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	2.30	0.47	20.4	2.3	1.6 - 3.0	24	44.05	8.48	19.3	40.5	30.8 - 57.3

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	25	2.32	0.23	9.9	2.3	0.0 - 6.0	25	70.10	10.42	14.9	68.5	49.0 - 91.2

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	82	99.2	19.5	19.6	96	69 - 129	81	1455.4	273.8	18.8	1405	1018 - 1893
All Immulite Instruments	8	139.6	12.8	9.2	142	97 - 182	8	1520.9	152.7	10.0	1600	1064 - 1978
All Roche Elecsys/Cobas Instruments	6	107.7	5.5	5.1	108	75 - 140	6	1608.8	267.1	16.6	1500	1126 - 2092
All TOSOH Instruments	16	108.4	12.0	11.0	111	75 - 141	16	1805.3	91.3	5.1	1813	1263 - 2347
Abbott Architect	6	99.3	7.0	7.0	97	69 - 130	6	1571.8	650.2	41.4	1440	1100 - 2044
Beckman ACCESS / 2 / Dxl	36	89.9	7.1	7.9	90	62 - 117	35	1345.5	78.6	5.8	1356	941 - 1750
Siemens Immulite/1000	6	139.5	12.8	9.1	142	97 - 182	6	1600.0	0.1	0.0	1600	1120 - 2080
TOSOH AIA	6	111.5	9.0	8.1	112	78 - 145	6	1813.3	80.4	4.4	1821	1269 - 2358
TOSOH ST AIA	10	106.5	13.5	12.7	109	74 - 139	10	1800.5	101.2	5.6	1802	1260 - 2341

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	87.1	4.0	4.6	88	78 - 96	15	317.7	11.4	3.6	314	285 - 350

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<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	98	167.7	30.7	18.3	157	117 - 218	99	1258.3	196.2	15.6	1193	880 - 1636
All Roche Elecsys/Cobas Instruments	10	158.6	30.9	19.5	161	111 - 207	10	1488.6	98.0	6.6	1496	1042 - 1936
All TOSOH Instruments	17	197.8	17.2	8.7	198	138 - 258	18	1418.2	108.7	7.7	1446	992 - 1844
Beckman ACCESS / 2 / Dxl	45	142.6	8.2	5.8	142	99 - 186	46	1115.6	66.7	6.0	1114	780 - 1451
TOSOH AIA	13	199.8	19.0	9.5	202	139 - 260	14	1411.9	107.0	7.6	1427	988 - 1836

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-1						Specimen ETH-2					
	<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	142.3	9.0	6.3	147	106 - 178	5	189.7	17.0	9.0	199	142 - 238
	Specimen ETH-3						Specimen ETH-4					
	<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	20.0	0.1	0.0	20	15 - 25	5	9.0	1.7	19.2	10	6 - 12
	Specimen ETH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	5	183.7	18.1	9.9	191	137 - 230						

Acetone

<u>Method</u>	Specimen ETH-1					Specimen ETH-2				
	<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	11	11	-	-	-	11	-	-	3	8
Siemens Acetest	10	10	-	-	-	10	-	-	2	8
	Specimen ETH-3					Specimen ETH-4				
	<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	11	11	-	-	-	11	11	-	-	-
Siemens Acetest	10	10	-	-	-	10	10	-	-	-
	Specimen ETH-5									
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>					
ALL METHODS	11	-	-	1	10					
Siemens Acetest	10	-	-	1	9					

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-1						Specimen THY-2					
	<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	282.204	55.418	19.6	283.10	171.36 - 393.04	14	2.376	0.589	24.8	2.31	1.19 - 3.56
Beckman ACCESS / 2 / Dxl	10	314.506	39.475	12.6	309.75	235.55 - 393.46	10	2.591	0.562	21.7	2.50	1.46 - 3.72

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-1						Specimen THY-2					
	<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	11.815	4.759	40.3	9.50	2.29 - 21.34	17	3.374	3.679	109.1	1.40	0.00 - 10.74
Beckman ACCESS / 2 / Dxl	10	8.670	1.012	11.7	8.40	6.64 - 10.70	10	1.890	2.502	132.4	1.05	0.00 - 6.90

Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-1						Specimen AMM-2					
	<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	68.2	11.9	17.5	72	44 - 93	5	284.8	10.2	3.6	286	264 - 306

Urine Drug Screen

Acetaminophen (µg/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	-	5

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	81	-	81	81	80	1
Cut-off 250						
Alere iCup	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
All Cut-off 250	2	-	2	2	2	-
Cut-off 300						
Alere iCup	1	-	1	1	1	-
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	1	-
All Cut-off 300	2	-	2	2	2	-
Cut-off 500						
Beckman AU	2	-	2	2	2	-
Bio-Rad TOX/See	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Immunalysis	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
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	-
All Cut-off 500	16	-	16	16	16	-
Cut-off 1000						
Alere iCassette	4	-	4	4	4	-
Alere iCup	5	-	5	5	5	-
Alere iScreen	1	-	1	1	1	-
Alere Triage	1	-	1	1	1	-
Alfa Scientific Instant-View	1	-	1	1	1	-
AMBC Rapid Drug/Tox	1	-	1	1	1	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	2	2	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	1	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
InstaCheck Drug Screen	1	-	1	1	1	-
Lin-Zhi International	7	-	7	7	7	-
MEDTOX Diagnostics	1	-	1	1	1	-
Microgenics DRI	5	-	5	5	5	-
Mindray BS-200	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
USDiagnostics UScreen Cup	4	-	4	4	4	-
All Cut-off 1000	45	-	45	45	45	-

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	12	-	12	11	9	2
Cut-off 500						
Beckman AU	3	-	3	3	3	-
Siemens EMIT II Plus	3	-	3	3	3	-
All Cut-off 500	7	-	7	7	6	1
Cut-off 1000						
AMBC Rapid Drug/Tox	1	-	1	1	1	-
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	3	3	-
All Cut-off 1000	4	-	4	11	9	2

Barbiturates (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	72	-	72	72	1	71
Cut-off 200						
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	5	-	5	5	-	5
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	3	-	3	3	-	3
Medica EasyRA	2	-	2	2	-	2
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	2	-	2	2	-	2
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	28	-	28	28	-	28
Cut-off 300						
Alere iCassette	4	-	4	4	-	4
Alere iCup	7	-	7	7	-	7
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Amedica Biotech AmediCheck	2	-	2	2	-	2
Bio-Rad TOX/See	3	-	3	3	1	2
BMC QuickTox Drug Screen	2	-	2	2	-	2
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 300	30	-	30	30	1	29

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	82	-	82	81	-	81
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						
Medica EasyRA	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 150	7	-	7	7	-	7
Cut-off 200						
Beckman AU	4	-	4	4	-	4
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	6	-	6	6	-	6
Microgenics DRI	3	-	3	3	-	3
Mindray BS-200	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	5	-	5	5	-	5
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	25	-	25	25	-	25
Cut-off 300						
Alere iCassette	4	-	4	4	-	4
Alere iCup	7	-	7	7	-	7
Alere iScreen	2	-	2	2	-	2
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	3	-	3	3	-	3
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	-	1	-	-	-
MEDTOX Diagnostics	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 300	33	-	33	32	-	32

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	41	39	2	41	2	39
Cut-off 5						
Beckman AU	4	4	-	4	-	4
ImmTox	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
Lin-Zhi International	7	7	-	7	1	6
Medica EasyRA	2	2	-	2	-	2
Microgenics CEDIA	3	3	-	3	-	3
Siemens EMIT II Plus	2	2	-	2	-	2
Synermed IR 500	1	1	-	1	-	1
All Cut-off 5	21	21	-	21	1	20
Cut-off 10						
Alere iCup	2	-	2	2	-	2
Alere iScreen	2	2	-	2	-	2
Bio-Rad TOX/See	1	1	-	1	-	1
Chemtron Biotech	1	1	-	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	1	-	1	-	1
MEDTOX Diagnostics	4	4	-	4	-	4
Microgenics CEDIA	1	1	-	1	-	1
Mindray BS-200	1	1	-	1	-	1
USDiagnostics UScreen Cup	2	2	-	2	-	2
All Cut-off 10	16	14	2	16	-	16
Cut-off 20						
Indiko Plus	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	95	2	93	94	-	94
Cut-off 20						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 50						
Alere iCassette	4	-	4	4	-	4
Alere iCup	8	-	8	8	-	8
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	5	-	5	5	-	5
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	5	-	5	5	-	5
Bio-Rad TOX/See	3	1	2	3	-	3
BMC QuickTox Drug Screen	3	-	3	3	-	3
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	-	1	-	-	-
Germaine Laboratories AimScreen	2	-	2	2	-	2
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	7	-	7	7	-	7
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	6	-	6	6	-	6
Noble Medical Inc.	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	4	-	4	4	-	4
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 50	77	1	76	76	-	76

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	97	97	-	96	1	95
Cut-off 50						
Amedica Biotech AmediCheck	1	1	-	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	1	-	-	-	-
All Cut-off 50	2	2	-	1	-	1
Cut-off 100						
Beckman AU	1	1	-	1	-	1
Medica EasyRA	2	2	-	2	-	2
All Cut-off 100	3	3	-	3	-	3
Cut-off 150						
Alere iCup	2	2	-	2	-	2
Beckman AU	4	4	-	4	-	4
Bio-Rad TOX/See	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
MEDTOX Diagnostics	5	5	-	5	-	5
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	3	3	-	3	-	3
Synermed IR 500	1	1	-	1	-	1
All Cut-off 150	20	20	-	20	-	20
Cut-off 300						
Alere iCassette	4	4	-	4	-	4
Alere iCup	6	6	-	6	-	6
Alere iScreen	1	1	-	1	-	1
Alere Triage	1	1	-	1	-	1
Alfa Scientific Instant-View	5	5	-	5	-	5
Bio-Rad TOX/See	2	2	-	2	-	2
BMC QuickTox Drug Screen	3	3	-	3	-	3
Clarity Diagnostics Urine Panels/Cassettes	1	1	-	1	-	1
Germaine Laboratories AimScreen	2	2	-	2	-	2
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Lin-Zhi International	6	6	-	6	-	6
MEDTOX Diagnostics	1	1	-	1	-	1
Microgenics DRI	5	5	-	5	-	5
Mindray BS-200	1	1	-	1	-	1
Noble Medical Inc.	1	1	-	1	-	1
Roche Cobas 8000 / c502	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
Siemens EMIT II Plus	2	2	-	2	-	2
USDiagnostics UScreen Cup	4	4	-	4	-	4
All Cut-off 300	55	55	-	55	-	55

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<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 100						
Immunalysis	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	15	-	15	15	14	1
Cut-off 10						
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 10	1	-	1	1	1	-
Cut-off 20						
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 20	2	-	2	2	2	-
Cut-off 100						
Beckman AU	2	-	2	2	2	-
Lin-Zhi International	6	-	6	6	6	-
Microgenics DRI	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 100	10	-	10	10	10	-
Cut-off 3						
Roche Cobas 8000 / c502	1	-	1	1	1	-
All Cut-off 3	1	-	1	1	1	-

Fentanyl (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	6	-	6	6	-	6
Cut-off 2						
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	4	-	4	4	-	4

LSD (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<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-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	34	-	34	33	30	3
Cut-off 100						
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 300						
Bio-Rad TOX/See	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Alere iCassette	2	-	2	2	2	-
Alere iCup	6	-	6	6	6	-
Alfa Scientific Instant-View	1	-	1	1	1	-
Amedica Biotech AmediCheck	2	-	2	2	2	-
Beckman AU	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	2	2	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Lin-Zhi International	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
USDiagnosics UScreen Cup	4	-	4	4	4	-
All Cut-off 500	25	-	25	25	25	-

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	71	-	71	71	1	70
Cut-off 150						
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 150	2	-	2	2	-	2
Cut-off 200						
MEDTOX Diagnostics	4	-	4	4	-	4
All Cut-off 200	4	-	4	4	-	4
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	5	-	5	5	-	5
Alere iScreen	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Bio-Rad TOX/See	2	-	2	2	-	2
BMC QuickTox Drug Screen	3	-	3	3	-	3
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	6	-	6	6	-	6
Medica EasyRA	2	-	2	2	-	2
Microgenics DRI	5	-	5	5	-	5
Mindray BS-200	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnosics UScreen Cup	4	-	4	4	-	4
All Cut-off 300	48	-	48	48	-	48
Cut-off 1000						
Alere iCup	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	53	1	52	53	50	3
Cut-off 500						
Alere iCup	2	-	2	2	2	-
Alere iScreen	1	-	1	1	1	-
Beckman AU	2	-	2	2	2	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
ImmTox	1	-	1	1	1	-
Lin-Zhi International	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
MEDTOX Diagnostics	4	-	4	4	4	-
Siemens EMIT II Plus	2	-	2	2	2	-
All Cut-off 500	17	-	17	17	16	1
Cut-off 1000						
Alere iCassette	3	-	3	3	3	-
Alere iCup	7	-	7	7	7	-
Alfa Scientific Instant-View	1	-	1	1	1	-
AMBC Rapid Drug/Tox	1	-	1	1	1	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	2	2	-
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
USDiagnostics UScreen Cup	4	-	4	4	4	-
All Cut-off 1000	24	-	24	24	24	-

Methanol (mg/dL)

	Specimen UDS-1			Specimen UDS-2		
	<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-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2
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-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	6	5	1	6	-	6
Cut-off 10						
Beckman AU	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 10	4	4	-	4	-	4

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	101	101	-	100	1	99
Cut-off 100						
Beckman AU	1	1	-	1	-	1
Medica EasyRA	2	2	-	2	-	2
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 100	8	8	-	8	-	8
Cut-off 300						
Alere iCup	2	2	-	2	-	2
Alere iScreen	2	2	-	2	-	2
Alere Triage	1	1	-	1	-	1
Alfa Scientific Instant-View	2	2	-	2	-	2
Beckman AU	4	4	-	4	-	4
Bio-Rad TOX/See	2	2	-	2	-	2
BMC QuickTox Drug Screen	2	2	-	2	-	2
ImmTox	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Lin-Zhi International	7	7	-	7	-	7
MEDTOX Diagnostics	1	1	-	1	-	1
Microgenics DRI	4	4	-	4	-	4
Mindray BS-200	1	1	-	1	-	1
Roche Cobas 8000 / c502	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	6	6	-	6	-	6
Synermed IR 500	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 300	43	43	-	43	-	43
Cut-off 2000						
Alere iCassette	4	4	-	4	-	4
Alere iCup	7	7	-	7	-	7

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

	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Alfa Scientific Instant-View	3	3	-	3	-	3
Amedica Biotech AmediCheck	1	1	-	1	-	1
Bio-Rad TOX/See	1	1	-	1	-	1
BMC QuickTox Drug Screen	1	1	-	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	1	-	1	-	1
Germaine Laboratories						
AimScreen	2	2	-	2	-	2
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
Noble Medical Inc.	1	1	-	1	-	1
USDiagnostics UScreen Cup	3	3	-	3	-	3
All Cut-off 2000	32	32	-	32	-	32
Alfa Scientific Instant-View	3	3	-	3	-	3

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	66	3	63	65	-	65
Cut-off 100						
Alere iCassette	4	-	4	4	-	4
Alere iCup	7	-	7	7	-	7
Alere iScreen	2	-	2	2	-	2
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	5	-	5	5	-	5
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	3	-	3	3	-	3
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Lin-Zhi International	5	-	5	5	-	5
Medica EasyRA	2	-	2	2	-	2
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
USDiagnosics UScreen Cup	3	-	3	3	-	3
All Cut-off 100	52	1	51	52	-	52
Cut-off 300						
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 300	3	1	2	3	-	3

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	60	-	60	59	-	59
Cut-off 25						
Alere iCassette	4	-	4	4	-	4
Alere iCup	5	-	5	5	-	5
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Bio-Rad TOX/See	3	-	3	3	-	3
BMC QuickTox Drug Screen	3	-	3	3	-	3
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	-	1	-	-	-
ImmTox	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	3	-	3	3	-	3
Noble Medical Inc.	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 25	49	-	49	48	-	48

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	20	-	20	20	-	20
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	3	-	3	3	-	3
Beckman AU	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
All Cut-off 300	15	-	15	15	-	15

Tramadol (ng/mL)

	Specimen UDS-1			Specimen UDS-2		
	<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 200						
Beckman AU	2	-	2	2	-	2
ImmTox	1	-	1	1	-	1
All Cut-off 200	3	-	3	3	-	3

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	25	22	3	24	1	23
Cut-off 300						
Beckman AU	1	1	-	1	-	1
MEDTOX Diagnostics	4	4	-	4	-	4
All Cut-off 300	5	5	-	5	-	5
Cut-off 1000						
Alere iCassette	2	2	-	2	-	2
Alere iCup	4	2	2	4	-	4
Alere Triage	1	1	-	1	-	1
Amedica Biotech AmediCheck	2	2	-	2	-	2
Bio-Rad TOX/See	3	3	-	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Discover Multi-Panel Drug Screen						
Test Cup	1	1	-	-	-	-
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 1000	16	13	3	15	-	15

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-1						Specimen WBG-2					
	<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	309	251.2	42.7	17.0	255	200 - 302	318	84.4	23.0	27.3	79	67 - 102
All Abbott Methods	23	259.0	21.3	8.2	255	207 - 311	23	73.4	7.1	9.6	73	58 - 89
All Arkray Methods	13	253.9	19.1	7.5	252	203 - 305	21	90.7	3.9	4.3	91	72 - 109
All Bayer Methods	65	195.9	10.5	5.3	195	156 - 236	65	57.6	5.2	9.0	57	45 - 70
All Hemocue Methods	71	273.2	7.1	2.6	274	218 - 328	70	118.5	7.2	6.1	120	94 - 143
All Lifescan Methods	26	284.2	31.9	11.2	287	227 - 341	25	79.0	8.8	11.2	80	63 - 95
All Roche Methods	34	243.2	10.2	4.2	242	194 - 292	34	76.6	2.7	3.5	76	61 - 92
Abbott FreeStyle Lite/Freedom Lite	9	240.3	11.4	4.8	240	192 - 289	9	73.3	2.1	2.9	73	58 - 88
Abbott Precision XceedPro	9	268.6	13.1	4.9	273	214 - 323	9	69.8	5.0	7.2	69	55 - 84
Arkray Platinum	12	249.7	11.9	4.8	252	199 - 300	20	90.6	4.0	4.4	91	72 - 109
Bayer Contour	65	195.9	10.5	5.3	195	156 - 236	65	57.6	5.2	9.0	57	45 - 70
HemoCue 201	71	273.2	7.1	2.6	274	218 - 328	70	118.5	7.2	6.1	120	94 - 143
Home Diagnostics True Balance / TrueTrack	12	585.3	24.0	4.1	593	468 - 703	14	236.6	12.5	5.3	235	189 - 284
Lifescan One Touch Ultra/2/Mini	19	296.0	28.6	9.7	297	236 - 356	18	79.8	10.2	12.7	80	63 - 96
LifeScan OneTouch Verio	6	248.0	4.9	2.0	247	198 - 298	6	77.5	3.4	4.4	78	62 - 93
Medline EvenCare G2 / G3	20	295.1	24.6	8.3	289	236 - 355	19	97.8	7.0	7.2	102	78 - 118
NOVA Biomedical StatStrip	23	216.1	10.7	4.9	215	172 - 260	23	69.6	3.9	5.5	69	55 - 84
PSS Quintet / AC	22	310.8	22.7	7.3	321	248 - 373	22	84.1	10.6	12.5	88	67 - 101
Roche Accu-Chek Aviva	6	242.8	6.6	2.7	242	194 - 292	6	76.8	1.8	2.4	77	61 - 93
Roche Accu-Chek Inform II	14	237.4	8.3	3.5	236	189 - 285	14	74.9	1.7	2.2	75	59 - 90
Roche Accu-Chek Performa	14	249.1	10.1	4.0	249	199 - 299	14	78.2	2.9	3.7	79	62 - 94
	Specimen WBG-3						Specimen WBG-4					
	<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	57.8	10.8	18.7	56	45 - 70	14	406.8	50.8	12.5	386	325 - 489
All Abbott Methods	2	-	-	-	63	50 - 75	2	-	-	-	447	357 - 537
All Lifescan Methods	8	53.1	8.3	15.6	55	41 - 66	8	421.4	49.8	11.8	421	337 - 506
All Roche Methods	2	-	-	-	60	48 - 72	2	-	-	-	372	297 - 447
Lifescan One Touch Ultra/2/Mini	7	51.9	8.1	15.5	53	39 - 64	7	428.3	49.4	11.5	445	342 - 514
LifeScan OneTouch Verio	1	-	-	-	62	41 - 66	1	-	-	-	373	337 - 506
Medline EvenCare G2 / G3	1	-	-	-	84	45 - 70	1	-	-	-	350	325 - 489
Roche Accu-Chek Inform II	1	-	-	-	58	45 - 70	1	-	-	-	369	325 - 489
Roche Accu-Chek Performa	1	-	-	-	62	45 - 70	1	-	-	-	375	325 - 489

Whole Blood Glucose (mg/dL) cont'd

Specimen WBG-5						
All Method	14	104.4	12.0	11.5	103	83 - 126
All Abbott Methods	2	-	-	-	106	84 - 127
All Lifescan Methods	8	105.8	12.5	11.8	107	84 - 127
All Roche Methods	2	-	-	-	97	77 - 117
Lifescan One Touch Ultra/2/Mini	7	106.4	13.3	12.5	113	85 - 128
LifeScan OneTouch Verio	1	-	-	-	101	84 - 127
Medline EvenCare G2 / G3	1	-	-	-	123	83 - 126
Roche Accu-Chek Inform II	1	-	-	-	96	83 - 126
Roche Accu-Chek Performa	1	-	-	-	98	83 - 126

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	125	Not graded	1	-	-	-	217	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	9.15	0.35	3.9	9.2	6.3 - 12.0	2	6.75	0.21	3.1	6.8	4.6 - 8.9

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	76	Not graded	1	-	-	-	163	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	71.34	4.55	6.4	72.1	59.2 - 83.5	9	131.84	7.24	5.5	132.0	109.4 - 154.3

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	25	Not graded	1	-	-	-	150	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	3.1	Not graded	1	-	-	-	6.0	Not graded

Urine Osmolality (mOsm/kg)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	401	Not graded	1	-	-	-	858	Not graded

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	19	Not graded	1	-	-	-	37.2	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	60.13	4.01	6.7	61.6	42.6 - 77.6	2	65.45	1.20	1.8	65.5	46.4 - 84.5

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	87.3	4.9	5.6	85	64 - 111	3	136.7	9.8	7.2	131	101 - 173

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	10.03	2.84	28.3	9.1	5.6 - 14.5	8	54.61	4.93	9.0	54.4	30.5 - 78.7

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	387	Not graded	1	-	-	-	534	Not graded

Urine Uric Acid (mg/dL)

<u>Method</u>	Specimen UCH-1						Specimen UCH-2					
	<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	-	-	-	5.0	Not graded	1	-	-	-	7.2	Not graded

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