

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
MLE-M2

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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	± 3 SD or 10% *	Homocysteine	$\pm 20\%$
Acetone	80% Consensus	Insulin	± 2 SD
Albumin	$\pm 10\%$	Iron	$\pm 20\%$
Alcohol	$\pm 25\%$	Lactate Dehydrogenase	$\pm 20\%$
Alpha-fetoprotein	± 3 SD	Lactic Acid	± 0.4 mmol/L or 3 SD *
Alkaline Phosphatase	$\pm 30\%$	LDL Cholesterol	± 2 SD or 30% *
ALT (SGPT)	$\pm 20\%$	Lipase	$\pm 30\%$
Ammonia	± 2 SD or 5% *	LH	± 2 SD
Amylase	$\pm 30\%$	Lithium	± 0.3 mmol/L or 20% *
Anti-Microsomal Antibody	± 2 SD	Magnesium	$\pm 25\%$
Anti-Thyroglobulin Antibody	± 2 SD	Myoglobin	$\pm 30\%$
Apolipoprotein A1	$\pm 30\%$	NT-proBNP	± 2 SD or 20% *
Apolipoprotein B	$\pm 25\%$	Parathyroid Hormone	± 2 SD
AST (SGOT)	$\pm 20\%$	Phenobarbital	$\pm 20\%$
B-Type Natriuretic Peptide (BNP)	± 2 SD or 20% *	Phenytoin	$\pm 25\%$
Beta-2 Microglobulin	± 3 SD	Phosphorus	± 0.3 mg/dL or 10.7% *
Bilirubin, Direct	± 2 SD	Potassium	± 0.5 mmol/L
Bilirubin, Total	± 0.4 mg/dL or 20% *	Progesterone	$\pm 30\%$
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *	Prolactin	± 3.6 ng/mL or 30% *
C-Peptide	± 2 SD	Protein, Total (Serum)	$\pm 10\%$
CA 125	$\pm 30\%$	Protein, Total (Urine)	$\pm 44\%$
CA 15-3	± 3 SD	PSA	± 0.9 ng/mL or 30% *
CA 19-9	± 3 SD	PSA, Free	± 0.9 ng/mL or 30% *
CA 27/29	± 3 SD	pCO ₂	± 5 mmHg or 8% *
Calcium	± 1.0 mg/dL	pH	± 0.04
Calcium, Ionized	± 3 SD	pO ₂	± 3 SD
Carbamazepine	$\pm 25\%$	Salicylate	± 3 SD or 10% *
CEA	± 1.2 ng/mL 30%	Sodium	± 4.0 mmol/L
Chloride	$\pm 5\%$	T ₃ Uptake (% Uptake)	± 3 SD
Cholesterol	$\pm 10\%$	T3, Free	± 3 SD
CK-MB (Quantitative)	± 3 SD	T4, Free	± 3 SD
CO ₂	$\pm 20\%$	tCO ₂	$\pm 20\%$
Cortisol	$\pm 25\%$	Testosterone	$\pm 30\%$
Creatine Kinase	$\pm 30\%$	Theophylline	$\pm 25\%$
Creatinine (Serum)	± 0.3 mg/dL or 15% *	Thyroglobulin	± 2 SD
Creatinine (Urine)	$\pm 17\%$	Thyroxine, Total T ₄	± 1.0 µg/dL or 20% *
D-Dimer	± 2 SD or 30% *	TIBC	± 2 SD or 20% *
DHEA-S	$\pm 25\%$	Transferrin	$\pm 10\%$
Digoxin	± 0.2 mg/dL or 20% *	Triglyceride	$\pm 25\%$
Estradiol	± 2 SD	Triiodothyronine, Total T ₃	± 3 SD
Ferritin	$\pm 30\%$	Troponin I	± 2 SD or 30% *
Folate	± 0.9 ng/mL or 30%*	Troponin T	$\pm 30\%$
Fructosamine (mmol/L)	± 0.45 or 30% *	TSH	± 3 SD
Fructosamine (µmol/L)	± 45 or 30% *	UIBC	± 2 SD or 20% *
FSH	$\pm 25\%$	Urea Nitrogen	± 2.0 mg/dL or 9% *
Gentamicin	$\pm 25\%$	Uric Acid	$\pm 17\%$
GGT	± 2 SD or 20% *	Urine Drug Screen	80% Consensus
Glucose, Serum	± 6 mg/dL or 10% *	Valproic Acid	$\pm 25\%$
Glucose, Whole Blood	± 12 mg/dL or 20% *	Vancomycin	± 3 SD or 10% *
Glycohemoglobin	$\pm 10\%$	Vitamin B ₁₂	$\pm 30\%$
HDL Cholesterol	$\pm 30\%$	Vitamin D	± 2 SD
HCG, Serum—Qualitative	80% Consensus	Troponin I	± 2 SD or 30% *
HCG, Serum—Quantitative	± 3 SD	Troponin T	$\pm 30\%$
Hematocrit	$\pm 6\%$		
Hemoglobin	$\pm 7\%$		

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	141.5	0.7	0.5	141	137 - 146	88	168.8	0.8	0.5	169	164 - 173
All i-STAT Instruments	88	141.5	0.7	0.5	141	137 - 146	88	168.8	0.8	0.5	169	164 - 173
i-STAT - moderate	10	141.4	0.5	0.4	141	137 - 146	10	169.3	0.8	0.5	169	165 - 174
i-STAT - waived	78	141.5	0.7	0.5	141	137 - 146	78	168.7	0.8	0.5	169	164 - 173

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	76	155.2	0.7	0.5	155	151 - 160	76	139.1	0.6	0.5	139	135 - 144
All i-STAT Instruments	76	155.2	0.7	0.5	155	151 - 160	76	139.1	0.6	0.5	139	135 - 144
i-STAT - moderate	9	-	-	-	155	151 - 160	9	-	-	-	139	135 - 144
i-STAT - waived	67	155.1	0.7	0.5	155	151 - 160	68	139.1	0.6	0.5	139	135 - 144

<u>Instrument</u>	Specimen IST-10						Specimen IST-11					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	77	113.6	0.6	0.5	114	109 - 118	77	113.6	0.6	0.5	114	109 - 118
All i-STAT Instruments	77	113.6	0.6	0.5	114	109 - 118	77	113.6	0.6	0.5	114	109 - 118
i-STAT - moderate	9	-	-	-	114	109 - 118	9	-	-	-	114	109 - 118
i-STAT - waived	68	113.6	0.5	0.5	114	109 - 118	68	113.6	0.5	0.5	114	109 - 118

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	3.82	0.04	1.1	3.8	3.3 - 4.4	88	6.81	0.05	0.8	6.8	6.3 - 7.4
All i-STAT Instruments	89	3.82	0.04	1.1	3.8	3.3 - 4.4	88	6.81	0.05	0.8	6.8	6.3 - 7.4
i-STAT - waived	80	3.83	0.04	1.1	3.8	3.3 - 4.4	79	6.81	0.05	0.8	6.8	6.3 - 7.4

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	4.50	0.01	0.0	4.5	4.0 - 5.0	77	4.49	0.04	0.8	4.5	3.9 - 5.0
All i-STAT Instruments	69	4.50	0.01	0.0	4.5	4.0 - 5.0	77	4.49	0.04	0.8	4.5	3.9 - 5.0
i-STAT - waived	68	4.51	0.03	0.7	4.5	4.0 - 5.1	69	4.49	0.03	0.8	4.5	3.9 - 5.0

<u>Instrument</u>	Specimen IST-10						Specimen IST-11					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	77	2.04	0.05	2.4	2.0	1.5 - 2.6	77	2.04	0.05	2.4	2.0	1.5 - 2.6
All i-STAT Instruments	77	2.04	0.05	2.4	2.0	1.5 - 2.6	77	2.04	0.05	2.4	2.0	1.5 - 2.6
i-STAT - waived	69	2.04	0.05	2.4	2.0	1.5 - 2.6	69	2.04	0.05	2.4	2.0	1.5 - 2.6

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	86.2	0.6	0.7	86	81 - 91	84	106.2	0.9	0.9	106	100 - 112
All i-STAT Instruments	85	86.2	0.6	0.7	86	81 - 91	84	106.2	0.9	0.9	106	100 - 112
i-STAT - waived	74	86.1	0.5	0.6	86	81 - 91	75	106.3	1.0	0.9	106	100 - 112
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	97.7	0.8	0.8	98	92 - 103	76	91.6	0.8	0.9	91	87 - 97
All i-STAT Instruments	74	97.7	0.8	0.8	98	92 - 103	76	91.6	0.8	0.9	91	87 - 97
i-STAT - waived	66	97.8	0.8	0.8	98	92 - 103	67	91.5	0.7	0.7	91	86 - 97
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	74	71.2	0.8	1.1	71	67 - 75						
All i-STAT Instruments	74	71.2	0.8	1.1	71	67 - 75						
i-STAT - waived	67	71.2	0.7	1.0	71	67 - 75						

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	77	23.8	1.1	4.7	24	19 - 29	79	24.0	1.1	4.5	24	19 - 29
All i-STAT Instruments	77	23.8	1.1	4.7	24	19 - 29	79	24.0	1.1	4.5	24	19 - 29
i-STAT - waived	69	23.8	1.1	4.6	24	19 - 29	71	24.0	1.0	4.4	24	19 - 29
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	70	21.8	1.0	4.5	22	17 - 27	69	25.6	1.0	3.9	26	20 - 31
All i-STAT Instruments	70	21.8	1.0	4.5	22	17 - 27	69	25.6	1.0	3.9	26	20 - 31
i-STAT - waived	63	21.7	1.0	4.4	22	17 - 27	62	25.7	1.0	3.8	26	20 - 31
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	72	19.2	0.8	4.0	19	15 - 24						
All i-STAT Instruments	72	19.2	0.8	4.0	19	15 - 24						
i-STAT - waived	65	19.2	0.8	4.1	19	15 - 24						

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	62.8	1.2	1.9	63	57 - 69	85	17.3	0.5	2.9	17	15 - 20
All i-STAT Instruments	86	62.8	1.2	1.9	63	57 - 69	85	17.3	0.5	2.9	17	15 - 20
i-STAT - waived	77	62.7	1.1	1.8	63	57 - 69	77	17.3	0.5	2.9	17	15 - 20
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	58.3	1.1	1.8	58	53 - 64	76	37.3	0.9	2.3	37	33 - 41
All i-STAT Instruments	74	58.3	1.1	1.8	58	53 - 64	76	37.3	0.9	2.3	37	33 - 41
i-STAT - waived	66	58.3	1.1	1.9	58	53 - 64	68	37.4	0.8	2.3	37	33 - 41
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	74	8.0	0.1	0.0	8	6 - 10						
All i-STAT Instruments	74	8.0	0.1	0.0	8	6 - 10						
i-STAT - waived	67	8.0	0.1	0.0	8	6 - 10						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	145.4	1.0	0.7	145	130 - 160	87	69.7	1.3	1.9	70	62 - 77
All i-STAT Instruments	88	145.4	1.0	0.7	145	130 - 160	87	69.7	1.3	1.9	70	62 - 77
i-STAT - waived	79	145.4	1.0	0.7	145	130 - 160	78	69.7	1.3	1.8	70	62 - 77
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	194.0	1.8	0.9	194	174 - 214	72	85.9	1.1	1.3	86	77 - 95
All i-STAT Instruments	74	194.0	1.8	0.9	194	174 - 214	72	85.9	1.1	1.3	86	77 - 95
i-STAT - waived	66	194.0	1.8	0.9	194	174 - 214	65	85.9	1.1	1.3	86	77 - 95
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	76	51.9	0.7	1.4	52	45 - 58						
All i-STAT Instruments	76	51.9	0.7	1.4	52	45 - 58						
i-STAT - waived	68	51.9	0.7	1.4	52	45 - 58						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	25.4	0.5	2.0	25	23 - 27	21	37.7	0.9	2.3	37	35 - 40
All i-STAT Instruments	21	25.4	0.5	2.0	25	23 - 27	21	37.7	0.9	2.3	37	35 - 40
i-STAT - waived	18	25.4	0.5	2.0	25	23 - 27	18	37.5	0.8	2.1	37	35 - 40
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	37.7	0.9	2.3	37	35 - 40	13	36.9	0.9	2.3	37	34 - 40
All i-STAT Instruments	21	37.7	0.9	2.3	37	35 - 40	13	36.9	0.9	2.3	37	34 - 40
i-STAT - waived	18	37.5	0.8	2.1	37	35 - 40	11	36.8	0.9	2.4	37	34 - 40
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	13.0	0.1	0.0	13	12 - 14						
All i-STAT Instruments	12	13.0	0.1	0.0	13	12 - 14						
i-STAT - waived	10	13.0	0.1	0.0	13	12 - 14						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	8.61	0.15	1.7	8.5	8.0 - 9.3	21	12.82	0.30	2.3	12.6	11.9 - 13.8
All i-STAT Instruments	21	8.61	0.15	1.7	8.5	8.0 - 9.3	21	12.82	0.30	2.3	12.6	11.9 - 13.8
i-STAT - waived	18	8.62	0.15	1.7	8.5	8.0 - 9.3	18	12.77	0.27	2.1	12.6	11.8 - 13.7
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	11.05	0.27	2.4	10.9	10.2 - 11.9	13	12.54	0.30	2.4	12.6	11.6 - 13.5
All i-STAT Instruments	13	11.05	0.27	2.4	10.9	10.2 - 11.9	13	12.54	0.30	2.4	12.6	11.6 - 13.5
i-STAT - waived	11	11.02	0.23	2.1	10.9	10.2 - 11.8	11	12.50	0.31	2.5	12.6	11.6 - 13.4
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	4.40	0.01	0.0	4.4	4.0 - 4.8						
All i-STAT Instruments	12	4.40	0.01	0.0	4.4	4.0 - 4.8						
i-STAT - waived	10	4.40	0.01	0.0	4.4	4.0 - 4.8						

Creatinine (mg/dL)

Specimen IST-6							Specimen IST-7					
<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	99	6.01	0.19	3.1	6.0	5.1 - 7.0	98	0.82	0.05	5.7	0.8	0.5 - 1.2
All i-STAT Instruments	99	6.01	0.19	3.1	6.0	5.1 - 7.0	98	0.82	0.05	5.7	0.8	0.5 - 1.2
i-STAT - moderate	10	5.94	0.21	3.6	6.0	5.0 - 6.9	10	0.84	0.05	6.1	0.8	0.5 - 1.2
i-STAT - waived	89	6.02	0.19	3.1	6.0	5.1 - 7.0	88	0.82	0.05	5.6	0.8	0.5 - 1.2
Specimen IST-8							Specimen IST-9					
All Method	75	4.98	0.13	2.6	5.0	4.2 - 5.8	76	2.72	0.08	2.8	2.7	2.3 - 3.2
All i-STAT Instruments	75	4.98	0.13	2.6	5.0	4.2 - 5.8	76	2.72	0.08	2.8	2.7	2.3 - 3.2
i-STAT - moderate	9	-	-	-	5.0	4.2 - 5.8	9	-	-	-	2.7	2.3 - 3.2
i-STAT - waived	66	4.98	0.13	2.6	5.0	4.2 - 5.8	66	2.72	0.07	2.4	2.7	2.3 - 3.2
Specimen IST-10												
All Method	76	0.41	0.04	10.1	0.4	0.1 - 0.8						
All i-STAT Instruments	76	0.41	0.04	10.1	0.4	0.1 - 0.8						
i-STAT - moderate	9	-	-	-	0.4	0.1 - 0.8						
i-STAT - waived	67	0.40	0.04	10.0	0.4	0.1 - 0.8						

Ionized Calcium (mmol/L)

Specimen IST-6							Specimen IST-7					
<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	78	1.818	0.022	1.2	1.82	1.75 - 1.89	76	0.961	0.009	1.0	0.96	0.93 - 0.99
All i-STAT Instruments	78	1.818	0.022	1.2	1.82	1.75 - 1.89	76	0.961	0.009	1.0	0.96	0.93 - 0.99
i-STAT - waived	71	1.818	0.021	1.2	1.82	1.75 - 1.89	69	0.961	0.009	1.0	0.96	0.93 - 0.99
Specimen IST-8							Specimen IST-9					
All Method	70	1.033	0.010	1.0	1.03	1.00 - 1.07	69	1.316	0.010	0.8	1.32	1.28 - 1.35
All i-STAT Instruments	70	1.033	0.010	1.0	1.03	1.00 - 1.07	69	1.316	0.010	0.8	1.32	1.28 - 1.35
i-STAT - waived	64	1.033	0.010	1.0	1.03	1.00 - 1.07	63	1.317	0.010	0.7	1.32	1.28 - 1.35
Specimen IST-10												
All Method	69	0.568	0.006	1.1	0.57	0.54 - 0.59						
All i-STAT Instruments	69	0.568	0.006	1.1	0.57	0.54 - 0.59						
i-STAT - waived	63	0.568	0.006	1.1	0.57	0.54 - 0.59						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	295	2.15	0.29	13.7	2.3	1.9 - 2.4	295	2.52	0.34	13.4	2.7	2.2 - 2.8
All Bromocresol Green Reagents	204	2.32	0.12	5.2	2.3	2.0 - 2.6	202	2.72	0.12	4.2	2.7	2.4 - 3.0
All Bromocresol Purple Reagents	88	1.75	0.15	8.5	1.7	1.5 - 2.0	88	2.05	0.12	5.9	2.0	1.8 - 2.3
Abaxis Piccolo												
Abaxis Piccolo - waived	19	1.96	0.07	3.5	1.9	1.7 - 2.2	19	2.18	0.08	3.5	2.2	1.9 - 2.5
All Chemistry Instruments	27	1.94	0.06	3.3	1.9	1.7 - 2.2	27	2.18	0.07	3.2	2.2	1.9 - 2.4
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	12	2.35	0.05	2.2	2.4	2.1 - 2.6	12	2.73	0.07	2.4	2.7	2.4 - 3.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	2.34	0.07	3.0	2.3	2.1 - 2.6	34	2.73	0.08	3.0	2.7	2.4 - 3.0
Beckman AU												
Beckman AU systems	27	2.29	0.05	2.2	2.3	2.0 - 2.6	27	2.70	0.06	2.1	2.7	2.4 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.36	0.08	3.5	2.4	2.1 - 2.6	19	2.73	0.06	2.1	2.7	2.4 - 3.0
Roche Integra												
Roche Integra	24	2.39	0.07	3.0	2.4	2.1 - 2.7	25	2.82	0.10	3.6	2.8	2.5 - 3.2
Siemens Healthcare												
Siemens Dimension	48	1.66	0.07	4.1	1.7	1.4 - 1.9	48	1.98	0.06	3.1	2.0	1.7 - 2.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	2.41	0.10	4.1	2.4	2.1 - 2.7	22	2.79	0.09	3.3	2.8	2.5 - 3.1
All Chemistry Instruments	24	2.41	0.10	4.0	2.4	2.1 - 2.7	24	2.81	0.11	3.9	2.8	2.5 - 3.1
VITROS												
VITROS 250,350,500,700,750,950	31	2.14	0.07	3.1	2.1	1.9 - 2.4	31	2.57	0.09	3.6	2.6	2.3 - 2.9
All Chemistry Instruments	37	2.15	0.07	3.4	2.1	1.9 - 2.4	37	2.59	0.11	4.2	2.6	2.3 - 2.9

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	286	2.94	0.38	12.9	3.1	2.6 - 3.3	286	2.55	0.34	13.3	2.7	2.2 - 2.9
All Bromocresol Green Reagents	204	3.16	0.11	3.5	3.2	2.8 - 3.5	204	2.75	0.12	4.3	2.7	2.4 - 3.1
All Bromocresol Purple Reagents	79	2.37	0.13	5.3	2.3	2.1 - 2.7	79	2.05	0.13	6.1	2.0	1.8 - 2.3
Abaxis Piccolo												
Abaxis Piccolo - waived	10	2.54	0.10	3.8	2.6	2.2 - 2.8	10	2.26	0.05	2.3	2.3	2.0 - 2.5
All Chemistry Instruments	18	2.52	0.09	3.5	2.5	2.2 - 2.8	18	2.23	0.07	3.1	2.2	2.0 - 2.5
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	12	3.16	0.07	2.1	3.2	2.8 - 3.5	12	2.77	0.05	1.8	2.8	2.4 - 3.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	3.16	0.07	2.4	3.2	2.8 - 3.5	33	2.75	0.07	2.4	2.7	2.4 - 3.1
Beckman AU												
Beckman AU systems	27	3.13	0.07	2.3	3.1	2.8 - 3.5	27	2.71	0.06	2.3	2.7	2.4 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.13	0.07	2.3	3.1	2.8 - 3.5	20	2.75	0.05	1.9	2.7	2.4 - 3.1
Roche Integra												
Roche Integra	24	3.26	0.07	2.2	3.3	2.9 - 3.6	25	2.84	0.09	3.1	2.8	2.5 - 3.2
Siemens Healthcare												
Siemens Dimension	47	2.32	0.06	2.7	2.3	2.0 - 2.6	47	2.00	0.05	2.7	2.0	1.8 - 2.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	3.20	0.11	3.3	3.2	2.8 - 3.6	22	2.83	0.13	4.5	2.8	2.5 - 3.2
All Chemistry Instruments	24	3.20	0.10	3.3	3.2	2.8 - 3.6	24	2.84	0.13	4.5	2.9	2.5 - 3.2
VITROS												
VITROS 250,350,500,700,750,950	31	3.05	0.10	3.3	3.0	2.7 - 3.4	31	2.59	0.08	3.2	2.6	2.3 - 2.9
All Chemistry Instruments	37	3.07	0.11	3.5	3.1	2.7 - 3.4	37	2.60	0.09	3.4	2.6	2.3 - 2.9

Albumin (g/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	285	4.07	0.51	12.6	4.3	3.6 - 4.5
All Bromocresol Green Reagents	204	4.38	0.18	4.1	4.4	3.9 - 4.9
All Bromocresol Purple Reagents	76	3.31	0.09	2.7	3.3	2.9 - 3.7
Abaxis Piccolo						
Abaxis Piccolo - waived	10	3.35	0.07	2.1	3.3	3.0 - 3.7
All Chemistry Instruments	18	3.33	0.08	2.5	3.3	2.9 - 3.7
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	12	4.28	0.10	2.3	4.3	3.8 - 4.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	33	4.28	0.10	2.3	4.3	3.8 - 4.8
Beckman AU						
Beckman AU systems	27	4.35	0.10	2.3	4.3	3.9 - 4.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.17	0.11	2.7	4.2	3.7 - 4.6
Roche Integra						
Roche Integra	23	4.47	0.08	1.8	4.5	4.0 - 5.0
Siemens Healthcare						
Siemens Dimension	47	3.29	0.07	2.2	3.3	2.9 - 3.7
Vital Diagnostics						
Vital Diagnostics Envoy 500	21	4.34	0.18	4.2	4.3	3.9 - 4.8
All Chemistry Instruments	23	4.35	0.18	4.2	4.4	3.9 - 4.8
VITROS						
VITROS 250,350,500,700,750,950	31	4.53	0.14	3.1	4.5	4.0 - 5.0
All Chemistry Instruments	37	4.55	0.15	3.2	4.5	4.0 - 5.1

Bilirubin, Direct (mg/dL)

Specimen CH-6							Specimen CH-7					
<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	195	0.39	0.15	37.1	0.4	0.1 - 0.7	195	1.82	0.39	21.6	1.7	1.0 - 2.6
All Alfa Wassermann Reagents	25	0.62	0.05	7.7	0.6	0.5 - 0.8	25	2.33	0.17	7.2	2.3	1.9 - 2.7
All Roche Integra/c111/c301/c501 Reagents	26	0.30	0.01	0.0	0.3	0.2 - 0.4	28	1.44	0.08	5.8	1.5	1.2 - 1.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	0.62	0.05	7.8	0.6	0.5 - 0.8	24	2.34	0.16	7.0	2.4	2.0 - 2.7
Beckman AU												
Beckman AU systems	24	0.45	0.05	11.4	0.5	0.3 - 0.6	24	2.13	0.12	5.4	2.1	1.8 - 2.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	0.47	0.05	10.2	0.5	0.3 - 0.6	16	2.18	0.18	8.1	2.2	1.8 - 2.6
Roche Integra												
Roche Integra	20	0.30	0.01	0.0	0.3	0.2 - 0.4	20	1.45	0.08	5.3	1.5	1.2 - 1.6
Siemens Healthcare												
Siemens Dimension	38	0.29	0.05	15.6	0.3	0.1 - 0.4	38	1.45	0.08	5.7	1.5	1.2 - 1.7
All Chemistry Instruments	40	0.29	0.04	15.2	0.3	0.2 - 0.4	40	1.45	0.08	5.6	1.5	1.2 - 1.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	0.50	0.04	8.2	0.5	0.4 - 0.6	13	2.19	0.15	6.8	2.2	1.8 - 2.5
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	17	0.25	0.19	77.2	0.3	0.0 - 0.7	17	1.61	0.16	9.7	1.6	1.2 - 2.0
All Chemistry Instruments	22	0.29	0.19	64.4	0.4	0.0 - 0.7	22	1.64	0.16	9.7	1.6	1.3 - 2.0

Specimen CH-8							Specimen CH-9					
<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	194	1.52	0.36	23.6	1.5	0.8 - 2.3	194	0.97	0.26	27.3	0.9	0.4 - 1.5
All Alfa Wassermann Reagents	25	2.01	0.14	7.0	2.0	1.7 - 2.3	24	1.37	0.09	6.4	1.4	1.1 - 1.6
All Roche Integra/c111/c301/c501 Reagents	28	1.19	0.09	7.4	1.2	1.0 - 1.4	28	0.74	0.06	8.5	0.7	0.6 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	2.03	0.11	5.3	2.0	1.8 - 2.3	23	1.37	0.08	5.9	1.4	1.2 - 1.6
Beckman AU												
Beckman AU systems	24	1.78	0.09	5.1	1.8	1.5 - 2.0	24	1.14	0.06	5.7	1.1	1.0 - 1.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	1.86	0.17	9.4	1.9	1.5 - 2.3	16	1.20	0.10	8.6	1.2	0.9 - 1.5
Roche Integra												
Roche Integra	20	1.21	0.07	5.7	1.2	1.0 - 1.4	20	0.75	0.06	8.1	0.7	0.6 - 0.9
Siemens Healthcare												
Siemens Dimension	38	1.17	0.08	6.8	1.2	1.0 - 1.4	38	0.74	0.06	8.7	0.8	0.6 - 0.9
All Chemistry Instruments	40	1.18	0.08	6.8	1.2	1.0 - 1.4	40	0.75	0.06	8.6	0.8	0.6 - 0.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	1.84	0.13	7.2	1.9	1.5 - 2.2	13	1.18	0.07	6.2	1.2	1.0 - 1.4
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	17	1.29	0.14	10.7	1.3	1.0 - 1.6	17	0.74	0.20	27.2	0.7	0.3 - 1.2
All Chemistry Instruments	22	1.35	0.17	12.5	1.3	1.0 - 1.7	22	0.78	0.20	25.2	0.8	0.3 - 1.2

Bilirubin, Direct (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	194	1.55	0.37	23.9	1.6	0.8 - 2.3
All Alfa Wassermann Reagents	25	2.03	0.18	8.7	2.1	1.6 - 2.4
All Roche Integra/c111/c301/c501 Reagents	28	1.19	0.10	8.2	1.2	0.9 - 1.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	2.07	0.12	5.9	2.1	1.8 - 2.4
Beckman AU						
Beckman AU systems	23	1.78	0.09	5.1	1.8	1.5 - 2.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	1.91	0.14	7.5	1.9	1.6 - 2.2
Roche Integra						
Roche Integra	20	1.23	0.07	5.8	1.2	1.0 - 1.4
Siemens Healthcare						
Siemens Dimension	38	1.16	0.07	5.8	1.2	1.0 - 1.3
All Chemistry Instruments	40	1.17	0.07	6.0	1.2	1.0 - 1.4
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	1.86	0.13	7.1	1.9	1.5 - 2.2
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	17	1.51	0.21	14.0	1.4	1.0 - 2.0
All Chemistry Instruments	22	1.54	0.20	12.9	1.6	1.1 - 2.0

Bilirubin, Total (mg/dL)

Specimen CH-6							Specimen CH-7					
<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	293	0.88	0.13	15.1	0.9	0.4 - 1.3	294	3.54	0.36	10.3	3.5	2.8 - 4.3
All Alfa Wassermann Reagents	45	1.09	0.06	5.4	1.1	0.6 - 1.5	44	4.12	0.18	4.3	4.1	3.2 - 5.0
All Horiba Pentra Reagents	21	0.85	0.07	8.0	0.9	0.4 - 1.3	21	3.50	0.21	5.9	3.6	2.8 - 4.3
All Roche T. bili Special Reagents	28	0.76	0.06	7.6	0.8	0.3 - 1.2	28	3.19	0.17	5.5	3.2	2.5 - 3.9
All Vital Diagnostics Reagents	26	0.75	0.07	9.4	0.8	0.3 - 1.2	26	3.25	0.21	6.5	3.3	2.6 - 3.9
Abaxis Piccolo												
Abaxis Piccolo - waived	20	0.95	0.08	8.0	1.0	0.5 - 1.4	20	3.27	0.16	4.8	3.3	2.6 - 4.0
All Chemistry Instruments	27	0.95	0.07	7.4	1.0	0.5 - 1.4	27	3.29	0.14	4.4	3.3	2.6 - 4.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	43	1.09	0.06	5.5	1.1	0.6 - 1.5	42	4.12	0.17	4.2	4.1	3.2 - 5.0
Beckman AU												
Beckman AU systems	27	0.99	0.05	4.6	1.0	0.5 - 1.4	27	3.81	0.13	3.4	3.8	3.0 - 4.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	0.85	0.07	8.1	0.9	0.4 - 1.3	20	3.50	0.21	6.0	3.6	2.8 - 4.2
Roche Integra-T. bili Special												
Roche Integra	12	0.76	0.05	6.8	0.8	0.3 - 1.2	12	3.12	0.19	5.9	3.2	2.4 - 3.8
Siemens Healthcare												
Siemens Dimension	47	0.79	0.05	6.9	0.8	0.3 - 1.2	47	3.37	0.15	4.4	3.4	2.6 - 4.1
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	0.75	0.07	8.9	0.7	0.3 - 1.2	23	3.24	0.21	6.4	3.3	2.5 - 3.9
All Chemistry Instruments	25	0.75	0.07	9.5	0.7	0.3 - 1.2	25	3.24	0.20	6.2	3.3	2.5 - 3.9
VITROS - TBIL												
VITROS 250,350,500,700,750,950	30	0.84	0.09	10.6	0.8	0.4 - 1.3	30	3.68	0.23	6.2	3.7	2.9 - 4.5
All Chemistry Instruments	36	0.84	0.09	10.4	0.8	0.4 - 1.3	36	3.70	0.25	6.8	3.7	2.9 - 4.5

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	286	2.99	0.32	10.6	3.0	2.3 - 3.6	285	1.95	0.23	11.6	1.9	1.5 - 2.4
All Alfa Wassermann Reagents	44	3.51	0.15	4.2	3.5	2.8 - 4.3	44	2.33	0.10	4.1	2.3	1.8 - 2.9
All Horiba Pentra Reagents	21	2.91	0.21	7.1	3.0	2.3 - 3.5	21	1.90	0.12	6.4	1.9	1.5 - 2.3
All Roche T. bili Special Reagents	28	2.67	0.14	5.2	2.7	2.1 - 3.3	28	1.71	0.09	5.2	1.7	1.3 - 2.2
All Vital Diagnostics Reagents	26	2.72	0.18	6.5	2.8	2.1 - 3.3	26	1.75	0.13	7.3	1.8	1.3 - 2.2
Abaxis Piccolo												
Abaxis Piccolo - waived	11	2.85	0.10	3.6	2.9	2.2 - 3.5	11	1.94	0.07	3.5	1.9	1.5 - 2.4
All Chemistry Instruments	18	2.86	0.09	3.2	2.9	2.2 - 3.5	18	1.92	0.07	3.8	1.9	1.5 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	42	3.51	0.15	4.1	3.5	2.8 - 4.3	42	2.34	0.10	4.1	2.3	1.8 - 2.9
Beckman AU												
Beckman AU systems	27	3.20	0.11	3.5	3.2	2.5 - 3.9	27	2.09	0.07	3.2	2.1	1.6 - 2.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.91	0.21	7.2	3.0	2.3 - 3.5	20	1.90	0.12	6.5	1.9	1.4 - 2.3
Roche Integra-T. bili Special												
Roche Integra	12	2.60	0.10	4.0	2.6	2.0 - 3.2	12	1.70	0.07	4.3	1.7	1.3 - 2.1
Siemens Healthcare												
Siemens Dimension	47	2.86	0.13	4.5	2.9	2.2 - 3.5	47	1.84	0.09	5.1	1.9	1.4 - 2.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	2.71	0.18	6.8	2.8	2.1 - 3.3	23	1.75	0.13	7.3	1.8	1.3 - 2.2
All Chemistry Instruments	25	2.72	0.18	6.6	2.8	2.1 - 3.3	25	1.75	0.13	7.2	1.8	1.3 - 2.2
VITROS - TBIL												
VITROS 250,350,500,700,750,950	30	3.05	0.20	6.7	3.1	2.4 - 3.7	29	1.89	0.14	7.2	1.9	1.4 - 2.3
All Chemistry Instruments	36	3.05	0.21	6.8	3.1	2.4 - 3.7	35	1.90	0.14	7.1	1.9	1.5 - 2.3

Bilirubin, Total (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	286	2.99	0.34	11.3	3.0	2.3 - 3.6
All Alfa Wassermann Reagents	44	3.53	0.15	4.3	3.5	2.8 - 4.3
All Horiba Pentra Reagents	21	2.86	0.19	6.5	2.9	2.2 - 3.5
All Roche T. bili Special Reagents	28	2.65	0.13	5.1	2.7	2.1 - 3.2
All Vital Diagnostics Reagents	26	2.68	0.21	7.7	2.7	2.1 - 3.3
Abaxis Piccolo						
Abaxis Piccolo - waived	11	2.92	0.08	2.6	2.9	2.3 - 3.6
All Chemistry Instruments	18	2.91	0.07	2.5	2.9	2.3 - 3.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	42	3.54	0.15	4.3	3.5	2.8 - 4.3
Beckman AU						
Beckman AU systems	27	3.11	0.11	3.6	3.1	2.4 - 3.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	2.85	0.18	6.4	2.9	2.2 - 3.5
Roche Integra-T. bili Special						
Roche Integra	12	2.58	0.11	4.4	2.6	2.0 - 3.1
Siemens Healthcare						
Siemens Dimension	46	2.89	0.13	4.6	2.9	2.3 - 3.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	23	2.65	0.17	6.5	2.7	2.1 - 3.2
All Chemistry Instruments	25	2.66	0.17	6.3	2.7	2.1 - 3.2
VITROS - TBIL						
VITROS 250,350,500,700,750,950	30	3.13	0.23	7.3	3.1	2.5 - 3.8
All Chemistry Instruments	36	3.13	0.24	7.6	3.1	2.5 - 3.8

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	303	9.12	0.27	2.9	9.1	8.1 - 10.2	302	12.88	0.39	3.0	12.8	11.8 - 13.9
All Arsenazo Methods	159	9.08	0.28	3.1	9.1	8.0 - 10.1	160	12.81	0.34	2.7	12.8	11.8 - 13.9
All CPC Methods	132	9.16	0.23	2.5	9.2	8.1 - 10.2	132	13.00	0.44	3.4	12.9	11.9 - 14.0
Abaxis Piccolo												
Abaxis Piccolo - waived	19	9.29	0.18	1.9	9.3	8.2 - 10.3	19	12.98	0.19	1.5	13.0	11.9 - 14.0
All Chemistry Instruments	27	9.33	0.17	1.9	9.3	8.3 - 10.4	27	13.00	0.23	1.8	13.0	11.9 - 14.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	46	9.15	0.25	2.8	9.1	8.1 - 10.2	46	12.77	0.31	2.4	12.8	11.7 - 13.8
Beckman AU												
Beckman AU systems	27	9.21	0.21	2.3	9.2	8.2 - 10.3	27	12.67	0.35	2.8	12.7	11.6 - 13.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	9.16	0.24	2.6	9.2	8.1 - 10.2	18	13.57	0.42	3.1	13.5	12.5 - 14.6
Roche Integra												
Roche Integra	25	9.27	0.22	2.4	9.3	8.2 - 10.3	25	13.18	0.36	2.7	13.2	12.1 - 14.2
Siemens Healthcare												
Siemens Dimension	47	9.08	0.21	2.3	9.1	8.0 - 10.1	48	12.87	0.27	2.1	12.8	11.8 - 13.9
All Chemistry Instruments	49	9.08	0.24	2.7	9.1	8.0 - 10.1	49	12.85	0.29	2.3	12.8	11.8 - 13.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	8.85	0.27	3.0	8.8	7.8 - 9.9	23	12.49	0.43	3.5	12.4	11.4 - 13.5
All Chemistry Instruments	25	8.82	0.28	3.2	8.8	7.8 - 9.9	25	12.50	0.42	3.4	12.4	11.5 - 13.5
VITROS												
VITROS 250,350,500,700,750,950	31	8.95	0.23	2.5	8.9	7.9 - 10.0	31	12.86	0.34	2.7	12.8	11.8 - 13.9
All Chemistry Instruments	40	8.95	0.21	2.3	8.9	7.9 - 10.0	40	12.87	0.31	2.4	12.9	11.8 - 13.9

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	291	11.30	0.30	2.7	11.3	10.3 - 12.4	295	10.22	0.28	2.7	10.2	9.2 - 11.3
All Arsenazo Methods	149	11.30	0.30	2.6	11.3	10.2 - 12.3	152	10.22	0.29	2.8	10.2	9.2 - 11.3
All CPC Methods	131	11.33	0.31	2.7	11.3	10.3 - 12.4	131	10.24	0.26	2.5	10.2	9.2 - 11.3
Abaxis Piccolo												
Abaxis Piccolo - waived	10	11.47	0.19	1.6	11.5	10.4 - 12.5	10	10.46	0.15	1.4	10.5	9.4 - 11.5
All Chemistry Instruments	18	11.47	0.17	1.5	11.4	10.4 - 12.5	18	10.40	0.16	1.5	10.4	9.4 - 11.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	46	11.33	0.26	2.3	11.3	10.3 - 12.4	46	10.35	0.24	2.3	10.3	9.3 - 11.4
Beckman AU												
Beckman AU systems	27	11.24	0.28	2.5	11.3	10.2 - 12.3	27	10.23	0.24	2.3	10.3	9.2 - 11.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	11.62	0.34	3.0	11.6	10.6 - 12.7	18	10.37	0.29	2.8	10.4	9.3 - 11.4
Roche Integra												
Roche Integra	25	11.46	0.25	2.1	11.5	10.4 - 12.5	25	10.32	0.24	2.3	10.3	9.3 - 11.4
Siemens Healthcare												
Siemens Dimension	47	11.17	0.24	2.1	11.1	10.1 - 12.2	48	10.14	0.23	2.3	10.1	9.1 - 11.2
All Chemistry Instruments	49	11.17	0.29	2.6	11.1	10.1 - 12.2	49	10.13	0.25	2.5	10.1	9.1 - 11.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	10.97	0.35	3.2	11.0	9.9 - 12.0	23	9.89	0.24	2.5	9.9	8.8 - 10.9
All Chemistry Instruments	25	10.99	0.54	4.9	11.0	9.9 - 12.0	25	9.93	0.30	3.0	10.0	8.9 - 11.0
VITROS												
VITROS 250,350,500,700,750,950	31	11.25	0.30	2.6	11.2	10.2 - 12.3	31	10.15	0.27	2.6	10.2	9.1 - 11.2
All Chemistry Instruments	39	11.23	0.23	2.1	11.2	10.2 - 12.3	40	10.15	0.24	2.4	10.2	9.1 - 11.2

Calcium (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	292	9.09	0.28	3.1	9.1	8.0 - 10.1
All Arsenazo Methods	149	9.12	0.27	3.0	9.1	8.1 - 10.2
All CPC Methods	132	9.07	0.29	3.2	9.1	8.0 - 10.1
Abaxis Piccolo						
Abaxis Piccolo - waived	10	9.33	0.39	4.1	9.3	8.3 - 10.4
All Chemistry Instruments	17	9.19	0.22	2.4	9.1	8.1 - 10.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	45	9.22	0.21	2.2	9.2	8.2 - 10.3
Beckman AU						
Beckman AU systems	27	9.31	0.21	2.3	9.4	8.3 - 10.4
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	9.01	0.21	2.4	9.0	8.0 - 10.1
Roche Integra						
Roche Integra	25	9.14	0.22	2.4	9.1	8.1 - 10.2
Siemens Healthcare						
Siemens Dimension	48	8.89	0.24	2.7	8.9	7.8 - 9.9
All Chemistry Instruments	49	8.88	0.26	2.9	8.9	7.8 - 9.9
Vital Diagnostics						
Vital Diagnostics Envoy 500	23	9.00	0.27	3.0	8.9	8.0 - 10.1
All Chemistry Instruments	25	9.04	0.28	3.1	9.0	8.0 - 10.1
VITROS						
VITROS 250,350,500,700,750,950	31	8.93	0.21	2.3	8.9	7.9 - 10.0
All Chemistry Instruments	39	8.91	0.16	1.8	8.9	7.9 - 10.0

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	303	0.80	0.09	10.9	0.8	0.5 - 1.2	301	4.15	0.25	6.1	4.2	3.5 - 4.8
All Alfa Wassermann Reagents	45	0.86	0.06	7.3	0.9	0.5 - 1.2	46	3.97	0.22	5.6	4.0	3.3 - 4.6
All Roche Integra/c111/c301/c501 Reagents	36	0.75	0.07	9.9	0.7	0.4 - 1.1	35	3.97	0.21	5.3	3.9	3.3 - 4.6
Abaxis Piccolo												
Abaxis Piccolo - waived	19	0.82	0.12	14.4	0.8	0.5 - 1.2	19	4.36	0.16	3.7	4.4	3.7 - 5.1
All Chemistry Instruments	27	0.84	0.12	14.5	0.8	0.5 - 1.2	27	4.35	0.15	3.5	4.4	3.6 - 5.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	43	0.86	0.06	6.8	0.9	0.5 - 1.2	44	3.97	0.21	5.3	4.0	3.3 - 4.6
Beckman AU												
Beckman AU systems	27	0.79	0.04	4.9	0.8	0.4 - 1.1	26	4.18	0.10	2.3	4.2	3.5 - 4.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	0.86	0.10	11.6	0.9	0.5 - 1.2	20	3.90	0.24	6.1	3.9	3.3 - 4.5
Roche Integra												
Roche Integra	26	0.74	0.06	8.6	0.7	0.4 - 1.1	25	3.92	0.18	4.6	3.9	3.3 - 4.6
Siemens Healthcare												
Siemens Dimension	47	0.78	0.09	11.4	0.8	0.4 - 1.1	47	4.29	0.09	2.1	4.3	3.6 - 5.0
All Chemistry Instruments	48	0.78	0.09	11.4	0.8	0.4 - 1.1	48	4.29	0.09	2.2	4.3	3.6 - 5.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	0.83	0.06	6.7	0.8	0.5 - 1.2	22	4.12	0.14	3.3	4.1	3.5 - 4.8
All Chemistry Instruments	24	0.82	0.06	7.8	0.8	0.5 - 1.2	24	4.10	0.15	3.6	4.1	3.4 - 4.8
VITROS - CREA												
VITROS 250,350,500,700,750,950	18	0.78	0.04	4.9	0.8	0.4 - 1.1	18	4.37	0.19	4.4	4.3	3.7 - 5.1
All Chemistry Instruments	21	0.79	0.04	4.6	0.8	0.4 - 1.1	21	4.39	0.19	4.2	4.4	3.7 - 5.1
VITROS - CRSC (DT)												
VITROS 250,350,500,700,750,950	10	0.80	0.01	0.0	0.8	0.5 - 1.1	11	4.41	0.14	3.1	4.4	3.7 - 5.1
All Chemistry Instruments	18	0.83	0.08	10.0	0.8	0.5 - 1.2	18	4.44	0.18	4.1	4.4	3.7 - 5.2

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	3.14	0.19	6.0	3.2	2.6 - 3.7	291	1.97	0.11	5.8	2.0	1.6 - 2.3
All Alfa Wassermann Reagents	47	3.04	0.17	5.5	3.0	2.5 - 3.5	47	1.95	0.13	6.5	2.0	1.6 - 2.3
All Roche Integra/c111/c301/c501 Reagents	35	3.01	0.20	6.8	2.9	2.5 - 3.5	35	1.89	0.15	7.7	1.8	1.5 - 2.2
Abaxis Piccolo												
Abaxis Piccolo - waived	10	3.29	0.19	5.6	3.4	2.7 - 3.8	10	1.99	0.10	5.0	2.0	1.6 - 2.3
All Chemistry Instruments	18	3.31	0.18	5.5	3.4	2.8 - 3.9	17	2.04	0.11	5.2	2.0	1.7 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	45	3.04	0.16	5.4	3.0	2.5 - 3.5	45	1.95	0.12	6.2	2.0	1.6 - 2.3
Beckman AU												
Beckman AU systems	26	3.18	0.07	2.2	3.2	2.7 - 3.7	26	1.98	0.04	2.2	2.0	1.6 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.00	0.18	6.2	3.1	2.5 - 3.5	20	1.93	0.14	7.3	1.9	1.6 - 2.3
Roche Integra												
Roche Integra	24	2.95	0.15	5.0	2.9	2.5 - 3.4	24	1.85	0.11	5.9	1.8	1.5 - 2.2
Siemens Healthcare												
Siemens Dimension	47	3.23	0.10	3.1	3.2	2.7 - 3.8	47	2.01	0.09	4.4	2.0	1.7 - 2.4
All Chemistry Instruments	48	3.22	0.11	3.3	3.2	2.7 - 3.8	48	2.01	0.09	4.5	2.0	1.7 - 2.4
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	3.15	0.10	3.1	3.2	2.6 - 3.7	22	2.00	0.08	4.2	2.0	1.6 - 2.3
All Chemistry Instruments	24	3.13	0.10	3.3	3.1	2.6 - 3.7	24	1.99	0.09	4.3	2.0	1.6 - 2.3
VITROS - CREA												
VITROS 250,350,500,700,750,950	18	3.25	0.12	3.7	3.2	2.7 - 3.8	18	1.99	0.06	2.9	2.0	1.6 - 2.3
All Chemistry Instruments	21	3.25	0.11	3.5	3.2	2.7 - 3.8	21	1.99	0.05	2.7	2.0	1.6 - 2.3
VITROS - CRSC (DT)												
VITROS 250,350,500,700,750,950	11	3.30	0.08	2.3	3.3	2.8 - 3.8	11	1.99	0.07	3.5	2.0	1.6 - 2.3
All Chemistry Instruments	18	3.33	0.20	6.1	3.3	2.8 - 3.9	18	2.06	0.15	7.1	2.0	1.7 - 2.4

Creatinine (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	293	2.28	0.18	7.9	2.3	1.9 - 2.7
All Alfa Wassermann Reagents	47	2.18	0.14	6.4	2.2	1.8 - 2.6
All Roche Integra/c111/c301/c501 Reagents	35	2.17	0.20	9.0	2.1	1.8 - 2.5
Abaxis Piccolo						
Abaxis Piccolo - waived	10	2.50	0.12	5.0	2.5	2.1 - 2.9
All Chemistry Instruments	18	2.53	0.17	6.9	2.5	2.1 - 3.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	45	2.19	0.13	5.8	2.2	1.8 - 2.6
Beckman AU						
Beckman AU systems	27	2.37	0.06	2.6	2.4	2.0 - 2.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	2.23	0.17	7.4	2.3	1.8 - 2.6
Roche Integra						
Roche Integra	25	2.13	0.17	8.2	2.1	1.8 - 2.5
Siemens Healthcare						
Siemens Dimension	47	2.41	0.11	4.5	2.4	2.0 - 2.8
All Chemistry Instruments	48	2.40	0.11	4.5	2.4	2.0 - 2.8
Vital Diagnostics						
Vital Diagnostics Envoy 500	23	2.36	0.10	4.2	2.4	2.0 - 2.8
All Chemistry Instruments	25	2.35	0.10	4.1	2.3	1.9 - 2.8
VITROS - CREA						
VITROS 250,350,500,700,750,950	18	2.09	0.06	3.1	2.1	1.7 - 2.5
All Chemistry Instruments	21	2.09	0.06	3.0	2.1	1.7 - 2.5
VITROS - CRSC (DT)						
VITROS 250,350,500,700,750,950	11	2.14	0.07	3.2	2.1	1.8 - 2.5
All Chemistry Instruments	18	2.19	0.19	8.6	2.2	1.8 - 2.6

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	318	81.9	3.5	4.2	82	73 - 91	317	209.3	7.3	3.5	210	188 - 231
All Alfa Wassermann Reagents	50	83.6	1.9	2.2	84	75 - 93	48	211.5	3.7	1.8	212	190 - 233
All Horiba Pentra Reagents	21	81.7	3.6	4.5	82	73 - 90	21	214.2	7.7	3.6	214	192 - 236
All Roche Integra/c111/c301/c501 Reagents	35	81.3	2.2	2.7	81	73 - 90	35	211.2	4.9	2.3	210	190 - 233
All Vital Diagnostics Reagents	26	84.5	2.7	3.3	85	76 - 93	26	215.2	6.8	3.1	215	193 - 237
Abaxis Piccolo												
Abaxis Piccolo - waived	19	80.2	1.8	2.3	80	72 - 89	18	204.7	1.4	0.7	205	184 - 226
All Chemistry Instruments	26	79.8	1.3	1.6	80	71 - 88	26	204.5	1.5	0.7	205	184 - 225
Alere Cholestech LDX												
Alere Cholestech LDX - waived	11	75.8	2.0	2.7	76	68 - 84	11	196.6	10.2	5.2	198	176 - 217
All Chemistry Instruments	12	75.8	2.0	2.6	76	68 - 84	12	196.6	9.7	5.0	198	176 - 217
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	48	83.7	1.8	2.1	84	75 - 93	47	211.5	3.8	1.8	212	190 - 233
Beckman AU												
Beckman AU systems	27	80.9	2.0	2.4	81	72 - 89	27	210.6	4.5	2.1	211	189 - 232
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	82.1	3.4	4.1	82	73 - 91	20	214.6	7.7	3.6	214	193 - 237
Roche Integra												
Roche Integra	26	81.7	2.8	3.4	81	73 - 90	25	211.1	5.1	2.4	210	189 - 233
Siemens Healthcare												
Siemens Dimension	47	85.1	2.2	2.6	85	76 - 94	45	213.4	3.9	1.8	213	192 - 235
All Chemistry Instruments	47	85.1	2.2	2.6	85	76 - 94	45	213.4	3.9	1.8	213	192 - 235
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	84.1	2.7	3.2	84	75 - 93	23	214.6	6.6	3.1	215	193 - 237
All Chemistry Instruments	25	84.4	2.8	3.3	85	75 - 93	25	215.4	6.8	3.2	215	193 - 237
VITROS												
VITROS 250,350,500,700,750,950	32	77.8	2.4	3.1	78	69 - 86	32	199.8	4.5	2.3	200	179 - 220
All Chemistry Instruments	39	77.7	2.3	3.0	78	69 - 86	39	199.4	4.5	2.3	199	179 - 220

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	297	160.0	5.3	3.3	160	143 - 176	297	121.0	4.4	3.7	121	108 - 134
All Alfa Wassermann Reagents	48	161.1	2.7	1.7	161	144 - 178	49	122.5	2.5	2.1	123	110 - 135
All Horiba Pentra Reagents	21	161.2	6.6	4.1	160	145 - 178	21	121.5	4.0	3.3	122	109 - 134
All Roche Integra/c111/c301/c501 Reagents	35	159.9	3.7	2.3	160	143 - 176	35	120.3	2.8	2.3	120	108 - 133
All Vital Diagnostics Reagents	26	165.1	5.6	3.4	165	148 - 182	26	125.0	5.1	4.1	126	112 - 138
Abaxis Piccolo												
Abaxis Piccolo - waived	10	155.8	1.8	1.2	156	140 - 172	10	118.1	1.5	1.3	118	106 - 130
All Chemistry Instruments	18	155.8	1.6	1.0	156	140 - 172	18	117.8	1.3	1.1	117	106 - 130
Alere Cholestech LDX												
Alere Cholestech LDX - waived	2	-	-	-	131	143 - 176	2	-	-	-	122	108 - 134
All Chemistry Instruments	3	-	-	-	150	125 - 154	3	-	-	-	110	106 - 130
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	47	161.0	2.7	1.7	161	144 - 178	47	122.6	2.3	1.9	123	110 - 135
Beckman AU												
Beckman AU systems	27	159.7	3.0	1.9	159	143 - 176	27	120.2	2.5	2.1	120	108 - 133
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	161.5	6.7	4.1	161	145 - 178	20	121.9	3.7	3.0	122	109 - 135
Roche Integra												
Roche Integra	25	159.8	3.3	2.0	160	143 - 176	25	120.1	2.8	2.3	120	108 - 133
Siemens Healthcare												
Siemens Dimension	46	164.0	3.7	2.3	164	147 - 181	46	124.5	2.8	2.3	125	112 - 137
All Chemistry Instruments	46	164.0	3.7	2.3	164	147 - 181	46	124.5	2.8	2.3	125	112 - 137
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	164.5	5.5	3.3	165	148 - 181	23	124.7	5.1	4.1	125	112 - 138
All Chemistry Instruments	25	164.9	5.6	3.4	165	148 - 182	25	125.1	5.1	4.1	126	112 - 138
VITROS												
VITROS 250,350,500,700,750,950	32	153.6	3.5	2.3	154	138 - 169	32	115.0	2.8	2.4	115	103 - 127
All Chemistry Instruments	39	153.3	3.5	2.3	153	137 - 169	39	114.8	2.7	2.4	115	103 - 127

Glucose (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	297	98.8	4.2	4.3	98	88 - 109
All Alfa Wassermann Reagents	50	99.1	2.3	2.3	99	89 - 109
All Horiba Pentra Reagents	21	96.3	3.9	4.1	96	86 - 106
All Roche Integra/c111/c301/c501 Reagents	34	95.8	2.2	2.3	96	86 - 106
All Vital Diagnostics Reagents	26	102.3	4.1	4.0	103	92 - 113
Abaxis Piccolo						
Abaxis Piccolo - waived	10	95.6	1.2	1.2	96	86 - 106
All Chemistry Instruments	18	95.2	1.1	1.2	95	85 - 105
Alere Cholestech LDX						
Alere Cholestech LDX - waived	2	-	-	-	92	88 - 109
All Chemistry Instruments	3	-	-	-	89	81 - 101
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	48	99.2	2.1	2.1	99	89 - 110
Beckman AU						
Beckman AU systems	27	95.2	2.2	2.3	95	85 - 105
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	96.7	3.7	3.8	96	86 - 107
Roche Integra						
Roche Integra	24	95.3	2.0	2.1	95	85 - 105
Siemens Healthcare						
Siemens Dimension	46	104.3	2.7	2.6	105	93 - 115
All Chemistry Instruments	46	104.3	2.7	2.6	105	93 - 115
Vital Diagnostics						
Vital Diagnostics Envoy 500	23	101.8	3.9	3.8	103	91 - 112
All Chemistry Instruments	25	102.3	4.2	4.1	103	92 - 113
VITROS						
VITROS 250,350,500,700,750,950	31	98.5	2.5	2.5	99	88 - 109
All Chemistry Instruments	37	98.2	2.5	2.6	99	88 - 109

Iron (µg/dL)

Specimen CH-6							Specimen CH-7					
<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	105	106.6	7.7	7.2	105	85 - 128	105	150.5	10.5	7.0	148	120 - 181
All Roche Integra/c111/c301/c501 Reagents	14	107.7	5.5	5.1	108	86 - 130	14	149.9	4.8	3.2	151	119 - 180
Beckman AU												
Beckman AU systems	18	116.0	2.6	2.2	116	92 - 140	18	164.8	2.7	1.6	165	131 - 198
Siemens Healthcare												
Siemens Dimension	24	104.5	1.6	1.6	104	83 - 126	24	145.2	1.9	1.3	145	116 - 175
VITROS												
All Chemistry Instruments	10	115.9	7.4	6.4	118	92 - 140	10	165.1	5.8	3.5	166	132 - 199
Specimen CH-8							Specimen CH-9					
All Method	106	168.6	13.0	7.7	166	134 - 203	105	138.1	9.9	7.1	136	110 - 166
All Roche Integra/c111/c301/c501 Reagents	14	167.6	4.3	2.6	169	134 - 202	14	140.2	5.6	4.0	140	112 - 169
Beckman AU												
Beckman AU systems	18	184.5	3.9	2.1	185	147 - 222	18	150.1	3.7	2.4	150	120 - 181
Siemens Healthcare												
Siemens Dimension	24	163.2	1.8	1.1	163	130 - 196	24	133.9	2.0	1.5	134	107 - 161
VITROS												
All Chemistry Instruments	10	190.5	8.5	4.5	190	152 - 229	10	150.6	9.3	6.2	152	120 - 181
Specimen CH-10												
All Method	106	236.5	21.3	9.0	231	189 - 284						
All Roche Integra/c111/c301/c501 Reagents	14	234.1	6.3	2.7	234	187 - 281						
Beckman AU												
Beckman AU systems	18	259.0	4.3	1.7	260	207 - 311						
Siemens Healthcare												
Siemens Dimension	24	228.2	2.1	0.9	229	182 - 274						
VITROS												
All Chemistry Instruments	10	278.4	7.8	2.8	278	222 - 335						

Lactic Acid (mmol/L)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	2.79	0.25	8.9	2.7	2.0 - 3.6	8	3.20	0.23	7.1	3.2	2.5 - 3.9
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	3.89	0.26	6.7	4.0	3.1 - 4.7	8	3.35	0.19	5.5	3.4	2.7 - 4.0
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	5.75	0.44	7.7	5.8	4.4 - 7.1						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	138	4.32	0.29	6.6	4.3	3.2 - 5.5	139	2.30	0.15	6.7	2.3	1.7 - 2.9
All Horiba Pentra Reagents	18	4.04	0.31	7.7	4.1	3.0 - 5.1	18	2.25	0.18	7.8	2.3	1.6 - 2.9
All Roche Integra/c111/c301/c501 Reagents	22	4.29	0.17	4.0	4.3	3.2 - 5.4	22	2.31	0.10	4.2	2.3	1.7 - 2.9
Beckman AU												
Beckman AU systems	16	4.31	0.14	3.3	4.3	3.2 - 5.4	16	2.29	0.08	3.4	2.3	1.7 - 2.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	4.03	0.32	7.9	4.0	3.0 - 5.1	17	2.25	0.18	8.0	2.3	1.6 - 2.9
Roche Integra												
Roche Integra	15	4.29	0.17	4.0	4.2	3.2 - 5.4	15	2.31	0.09	3.8	2.3	1.7 - 2.9
Siemens Healthcare												
Siemens Dimension	24	4.48	0.11	2.5	4.5	3.3 - 5.6	24	2.31	0.10	4.2	2.3	1.7 - 2.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	4.28	0.33	7.7	4.3	3.2 - 5.4	10	2.32	0.31	13.3	2.3	1.7 - 2.9
VITROS												
VITROS 250,350,500,700,750,950	14	4.72	0.19	4.1	4.8	3.5 - 6.0	14	2.45	0.11	4.5	2.5	1.8 - 3.1
All Chemistry Instruments	22	4.69	0.18	3.9	4.7	3.5 - 5.9	22	2.48	0.10	4.1	2.5	1.8 - 3.1

Magnesium (mg/dL)

Specimen CH-8							Specimen CH-9					
<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	136	2.74	0.16	5.9	2.7	2.0 - 3.5	137	3.51	0.21	6.0	3.5	2.6 - 4.4
All Horiba Pentra Reagents	17	2.67	0.12	4.5	2.7	2.0 - 3.4	18	3.36	0.23	6.9	3.4	2.5 - 4.2
All Roche Integra/c111/c301/c501 Reagents	22	2.75	0.10	3.7	2.8	2.0 - 3.5	22	3.53	0.13	3.6	3.5	2.6 - 4.5
Beckman AU												
Beckman AU systems	16	2.71	0.09	3.4	2.7	2.0 - 3.4	16	3.49	0.11	3.1	3.5	2.6 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	2.63	0.18	6.8	2.7	1.9 - 3.3	17	3.35	0.24	7.1	3.4	2.5 - 4.2
Roche Integra												
Roche Integra	15	2.74	0.11	4.1	2.7	2.0 - 3.5	15	3.51	0.12	3.4	3.5	2.6 - 4.4
Siemens Healthcare												
Siemens Dimension	24	2.80	0.09	3.1	2.8	2.0 - 3.5	24	3.60	0.11	3.1	3.6	2.7 - 4.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	2.76	0.33	12.0	2.7	2.0 - 3.5	10	3.24	1.09	33.7	3.4	2.4 - 4.1
VITROS												
VITROS 250,350,500,700,750,950	14	2.93	0.12	4.1	2.9	2.1 - 3.7	14	3.81	0.18	4.7	3.8	2.8 - 4.8
All Chemistry Instruments	22	2.93	0.10	3.6	2.9	2.1 - 3.7	21	3.78	0.10	2.7	3.8	2.8 - 4.8
Specimen CH-10												
All Method	137	2.82	0.14	4.9	2.8	2.1 - 3.6						
All Horiba Pentra Reagents	18	2.72	0.17	6.3	2.7	2.0 - 3.4						
All Roche Integra/c111/c301/c501 Reagents	22	2.82	0.11	3.9	2.8	2.1 - 3.6						
Beckman AU												
Beckman AU systems	16	2.81	0.10	3.6	2.8	2.1 - 3.6						
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	2.71	0.18	6.5	2.7	2.0 - 3.4						
Roche Integra												
Roche Integra	15	2.81	0.10	3.7	2.8	2.1 - 3.6						
Siemens Healthcare												
Siemens Dimension	24	2.85	0.09	3.3	2.9	2.1 - 3.6						
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	2.90	0.38	13.2	2.8	2.1 - 3.7						
VITROS												
VITROS 250,350,500,700,750,950	14	2.92	0.12	4.1	2.9	2.1 - 3.7						
All Chemistry Instruments	22	2.94	0.11	3.9	2.9	2.2 - 3.7						

Phosphorus (mg/dL)

Specimen CH-6							Specimen CH-7					
<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	116	5.34	0.24	4.5	5.3	4.7 - 6.0	116	3.14	0.21	6.8	3.1	2.8 - 3.5
All Alfa Wassermann Reagents	13	5.48	0.23	4.2	5.5	4.8 - 6.1	14	3.00	0.11	3.7	3.0	2.6 - 3.4
All Roche Integra/c111/c301/c501 Reagents	17	5.42	0.21	3.9	5.4	4.8 - 6.1	17	3.15	0.16	5.0	3.1	2.8 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	13	5.48	0.23	4.2	5.5	4.8 - 6.1	14	3.00	0.11	3.7	3.0	2.6 - 3.4
Beckman AU												
Beckman AU systems	14	5.10	0.19	3.8	5.2	4.5 - 5.7	14	2.91	0.15	5.1	2.9	2.5 - 3.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	5.58	0.23	4.1	5.6	4.9 - 6.2	12	3.43	0.11	3.1	3.5	3.0 - 3.8
Roche Integra												
Roche Integra	11	5.45	0.23	4.3	5.4	4.8 - 6.1	11	3.16	0.18	5.7	3.1	2.8 - 3.6
Siemens Healthcare												
Siemens Dimension	18	5.29	0.11	2.0	5.3	4.7 - 5.9	18	3.06	0.10	3.2	3.1	2.7 - 3.4
VITROS												
VITROS 250,350,500,700,750,950	10	5.28	0.17	3.2	5.3	4.7 - 5.9	10	3.38	0.13	3.9	3.4	3.0 - 3.8
All Chemistry Instruments	15	5.21	0.17	3.3	5.2	4.6 - 5.8	15	3.35	0.12	3.5	3.3	2.9 - 3.8

Specimen CH-8							Specimen CH-9					
<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	115	3.63	0.21	5.7	3.6	3.2 - 4.1	116	4.48	0.19	4.2	4.5	4.0 - 5.0
All Alfa Wassermann Reagents	14	3.49	0.14	3.9	3.5	3.1 - 3.9	14	4.44	0.16	3.7	4.5	3.9 - 5.0
All Roche Integra/c111/c301/c501 Reagents	17	3.68	0.17	4.6	3.7	3.2 - 4.1	17	4.56	0.17	3.7	4.5	4.0 - 5.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	14	3.49	0.14	3.9	3.5	3.1 - 3.9	14	4.44	0.16	3.7	4.5	3.9 - 5.0
Beckman AU												
Beckman AU systems	14	3.38	0.12	3.5	3.4	3.0 - 3.8	14	4.24	0.13	3.2	4.3	3.7 - 4.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	3.93	0.14	3.6	4.0	3.5 - 4.4	12	4.73	0.14	2.9	4.8	4.2 - 5.3
Roche Integra												
Roche Integra	11	3.69	0.18	4.9	3.7	3.2 - 4.1	11	4.57	0.18	4.0	4.5	4.0 - 5.1
Siemens Healthcare												
Siemens Dimension	18	3.56	0.10	2.9	3.5	3.1 - 4.0	17	4.41	0.07	1.7	4.4	3.9 - 4.9
VITROS												
VITROS 250,350,500,700,750,950	10	3.81	0.13	3.4	3.9	3.4 - 4.3	10	4.55	0.14	3.2	4.6	4.0 - 5.1
All Chemistry Instruments	15	3.80	0.11	3.0	3.8	3.3 - 4.3	15	4.51	0.14	3.0	4.5	4.0 - 5.0

Phosphorus (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	116	3.79	0.26	6.7	3.7	3.3 - 4.2
All Alfa Wassermann Reagents	14	3.59	0.14	3.9	3.6	3.2 - 4.0
All Roche Integra/c111/c301/c501 Reagents	17	3.80	0.17	4.6	3.7	3.3 - 4.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	14	3.59	0.14	3.9	3.6	3.2 - 4.0
Beckman AU						
Beckman AU systems	14	3.51	0.13	3.6	3.6	3.1 - 3.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	4.21	0.17	4.0	4.2	3.7 - 4.7
Roche Integra						
Roche Integra	11	3.80	0.20	5.3	3.7	3.3 - 4.3
Siemens Healthcare						
Siemens Dimension	18	3.71	0.13	3.4	3.7	3.3 - 4.2
VITROS						
VITROS 250,350,500,700,750,950	10	3.99	0.14	3.6	4.0	3.5 - 4.5
All Chemistry Instruments	15	3.98	0.13	3.3	4.0	3.5 - 4.5

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	289	4.19	0.15	3.6	4.2	3.7 - 4.7	286	4.90	0.17	3.4	4.9	4.4 - 5.4
All Alfa Wassermann Reagents	44	4.20	0.08	2.0	4.2	3.7 - 4.7	43	4.92	0.08	1.6	4.9	4.4 - 5.5
All Horiba Pentra Reagents	21	4.07	0.13	3.1	4.1	3.6 - 4.5	21	4.78	0.14	2.9	4.8	4.3 - 5.3
All Roche Integra/c111/c301/c501 Reagents	34	4.17	0.15	3.7	4.2	3.7 - 4.6	33	4.84	0.19	3.9	4.9	4.3 - 5.4
All Vital Diagnostics Reagents	25	4.37	0.20	4.5	4.4	3.9 - 4.9	24	5.18	0.20	3.8	5.2	4.6 - 5.7
Abaxis Piccolo												
Abaxis Piccolo - waived	20	4.33	0.09	2.1	4.3	3.8 - 4.8	19	4.97	0.07	1.5	5.0	4.4 - 5.5
All Chemistry Instruments	26	4.29	0.07	1.7	4.3	3.8 - 4.8	26	4.95	0.09	1.8	4.9	4.4 - 5.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	43	4.20	0.08	2.0	4.2	3.7 - 4.7	42	4.92	0.08	1.6	4.9	4.4 - 5.5
Beckman AU												
Beckman AU systems	27	4.09	0.10	2.5	4.1	3.6 - 4.5	27	4.79	0.11	2.3	4.8	4.3 - 5.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	4.07	0.13	3.2	4.1	3.6 - 4.5	20	4.78	0.14	3.0	4.8	4.3 - 5.3
Roche Integra												
Roche Integra	24	4.13	0.10	2.5	4.2	3.7 - 4.6	24	4.80	0.18	3.7	4.8	4.3 - 5.3
Siemens Healthcare												
Siemens Dimension	47	4.30	0.09	2.1	4.3	3.8 - 4.8	44	4.99	0.09	1.8	5.0	4.4 - 5.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	4.40	0.20	4.5	4.4	3.9 - 4.9	21	5.20	0.20	3.9	5.2	4.6 - 5.8
All Chemistry Instruments	24	4.38	0.20	4.5	4.4	3.9 - 4.9	23	5.19	0.20	3.8	5.2	4.6 - 5.8
VITROS												
VITROS 250,350,500,700,750,950	31	4.06	0.10	2.5	4.0	3.6 - 4.5	31	4.80	0.12	2.6	4.8	4.3 - 5.3
All Chemistry Instruments	37	4.07	0.10	2.4	4.1	3.6 - 4.5	37	4.81	0.12	2.6	4.8	4.3 - 5.3

Protein, Total (g/dL)

Specimen CH-8							Specimen CH-9					
<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	281	5.69	0.20	3.6	5.7	5.1 - 6.3	279	4.95	0.18	3.7	5.0	4.4 - 5.5
All Alfa Wassermann Reagents	43	5.71	0.11	1.8	5.7	5.1 - 6.3	44	4.97	0.13	2.5	5.0	4.4 - 5.5
All Horiba Pentra Reagents	21	5.55	0.17	3.2	5.6	4.9 - 6.2	21	4.81	0.14	2.9	4.8	4.3 - 5.3
All Roche Integra/c111/c301/c501 Reagents	34	5.64	0.20	3.5	5.7	5.0 - 6.3	33	4.89	0.19	3.8	4.9	4.4 - 5.4
All Vital Diagnostics Reagents	25	5.99	0.22	3.6	5.9	5.3 - 6.6	25	5.19	0.26	5.1	5.2	4.6 - 5.8
Abaxis Piccolo												
Abaxis Piccolo - waived	11	5.78	0.10	1.7	5.8	5.2 - 6.4	11	5.08	0.10	1.9	5.1	4.5 - 5.6
All Chemistry Instruments	18	5.76	0.09	1.6	5.8	5.1 - 6.4	18	5.06	0.09	1.8	5.1	4.5 - 5.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	41	5.72	0.09	1.7	5.7	5.1 - 6.3	42	4.98	0.11	2.3	5.0	4.4 - 5.5
Beckman AU												
Beckman AU systems	27	5.58	0.12	2.1	5.6	5.0 - 6.2	27	4.82	0.10	2.1	4.8	4.3 - 5.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.55	0.18	3.2	5.6	4.9 - 6.1	20	4.82	0.14	3.0	4.9	4.3 - 5.3
Roche Integra												
Roche Integra	25	5.59	0.19	3.4	5.6	5.0 - 6.2	23	4.83	0.13	2.8	4.9	4.3 - 5.4
Siemens Healthcare												
Siemens Dimension	46	5.84	0.10	1.7	5.8	5.2 - 6.5	46	5.07	0.10	1.9	5.1	4.5 - 5.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	6.01	0.22	3.7	6.0	5.4 - 6.7	22	5.22	0.27	5.1	5.2	4.7 - 5.8
All Chemistry Instruments	24	5.99	0.22	3.7	6.0	5.3 - 6.6	24	5.20	0.27	5.1	5.2	4.6 - 5.8
VITROS												
VITROS 250,350,500,700,750,950	30	5.48	0.11	2.0	5.5	4.9 - 6.1	30	4.79	0.11	2.4	4.8	4.3 - 5.3
All Chemistry Instruments	36	5.49	0.11	2.0	5.5	4.9 - 6.1	36	4.80	0.11	2.4	4.8	4.3 - 5.3

Protein, Total (g/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	283	8.00	0.34	4.3	8.0	7.1 - 8.8
All Alfa Wassermann Reagents	44	8.08	0.15	1.9	8.1	7.2 - 8.9
All Horiba Pentra Reagents	21	7.80	0.27	3.4	7.9	7.0 - 8.6
All Roche Integra/c111/c301/c501 Reagents	34	7.89	0.29	3.7	7.9	7.0 - 8.7
All Vital Diagnostics Reagents	25	8.44	0.41	4.8	8.4	7.5 - 9.3
Abaxis Piccolo						
Abaxis Piccolo - waived	11	8.15	0.19	2.3	8.1	7.3 - 9.0
All Chemistry Instruments	18	8.12	0.18	2.2	8.1	7.3 - 9.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	43	8.07	0.15	1.9	8.1	7.2 - 8.9
Beckman AU						
Beckman AU systems	27	7.87	0.17	2.2	7.9	7.0 - 8.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	7.81	0.28	3.5	7.9	7.0 - 8.6
Roche Integra						
Roche Integra	25	7.82	0.28	3.6	7.9	7.0 - 8.7
Siemens Healthcare						
Siemens Dimension	47	8.27	0.16	1.9	8.3	7.4 - 9.2
Vital Diagnostics						
Vital Diagnostics Envoy 500	22	8.53	0.34	4.0	8.4	7.6 - 9.4
All Chemistry Instruments	24	8.47	0.39	4.6	8.4	7.6 - 9.4
VITROS						
VITROS 250,350,500,700,750,950	31	7.53	0.18	2.4	7.5	6.7 - 8.3
All Chemistry Instruments	37	7.52	0.18	2.3	7.5	6.7 - 8.3

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	300	10.2	0.8	7.9	10	8 - 13	300	33.0	2.6	7.9	34	30 - 36
All Alfa Wassermann Reagents	48	10.2	0.6	6.0	10	8 - 13	46	34.2	1.1	3.1	34	31 - 38
All Horiba Pentra Reagents	21	10.3	0.6	6.3	10	8 - 13	21	33.5	0.9	2.8	33	30 - 37
All Roche Integra/c111/c301/c501 Reagents	35	10.2	0.5	5.2	10	8 - 13	34	33.8	0.9	2.6	34	30 - 37
All Vital Diagnostics Reagents	25	10.7	0.7	6.5	11	8 - 13	25	34.2	1.1	3.3	34	31 - 38
Abaxis Piccolo												
Abaxis Piccolo - waived	19	10.2	0.6	6.2	10	8 - 13	19	32.4	1.1	3.5	33	29 - 36
All Chemistry Instruments	27	10.1	0.7	7.1	10	8 - 13	27	32.6	1.1	3.2	33	29 - 36
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	39	10.2	0.6	6.1	10	8 - 13	38	34.2	1.1	3.2	34	31 - 38
Beckman AU												
Beckman AU systems	27	10.7	0.7	6.2	11	8 - 13	27	34.4	1.4	4.0	34	31 - 38
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	10.3	0.6	6.2	10	8 - 13	20	33.5	0.9	2.8	33	30 - 37
Roche Integra												
Roche Integra	25	10.2	0.6	5.7	10	8 - 13	25	33.9	1.1	3.2	34	30 - 37
Siemens Healthcare												
Siemens Dimension	47	10.2	0.8	7.8	10	8 - 13	47	34.0	1.3	3.7	34	30 - 38
All Chemistry Instruments	48	10.2	0.8	7.8	10	8 - 13	48	34.0	1.3	3.9	34	30 - 38
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	10.8	0.7	6.4	11	8 - 13	22	34.4	1.0	2.8	34	31 - 38
All Chemistry Instruments	24	10.7	0.7	6.4	11	8 - 13	24	34.3	1.2	3.4	34	31 - 38
VITROS												
VITROS 250,350,500,700,750,950	31	9.0	0.1	0.0	9	7 - 11	32	27.3	0.7	2.4	27	24 - 30
All Chemistry Instruments	38	9.0	0.1	0.0	9	7 - 11	40	27.3	0.7	2.6	27	24 - 30

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	292	27.5	2.1	7.6	28	25 - 30	291	18.8	1.3	7.0	19	16 - 21
All Alfa Wassermann Reagents	46	28.3	0.9	3.1	28	25 - 31	48	19.4	0.8	4.1	19	17 - 22
All Horiba Pentra Reagents	21	27.7	0.9	3.3	28	25 - 31	21	18.9	0.8	4.2	19	16 - 21
All Roche Integra/c111/c301/c501 Reagents	35	28.0	1.1	3.9	28	25 - 31	35	18.9	0.8	4.2	19	16 - 21
All Vital Diagnostics Reagents	25	28.5	1.0	3.5	28	25 - 32	25	19.7	1.1	5.8	20	17 - 22
Abaxis Piccolo												
Abaxis Piccolo - waived	10	26.7	1.1	4.0	27	24 - 30	10	18.1	0.6	3.1	18	16 - 21
All Chemistry Instruments	18	26.9	1.1	4.0	27	24 - 30	18	18.3	0.8	4.1	18	16 - 21
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	28.2	0.8	2.8	28	25 - 31	39	19.4	0.8	3.9	19	17 - 22
Beckman AU												
Beckman AU systems	27	28.7	1.1	3.7	29	26 - 32	27	19.6	0.8	4.3	20	17 - 22
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	27.7	0.9	3.3	28	25 - 31	20	18.9	0.8	4.3	19	16 - 21
Roche Integra												
Roche Integra	25	27.9	1.1	3.8	28	25 - 31	25	18.8	0.9	4.5	19	16 - 21
Siemens Healthcare												
Siemens Dimension	47	28.4	1.2	4.4	28	25 - 32	47	19.2	0.9	4.9	19	17 - 22
All Chemistry Instruments	48	28.4	1.3	4.5	28	25 - 31	48	19.2	1.0	5.0	19	17 - 22
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	28.5	1.0	3.4	28	25 - 32	22	19.9	1.1	5.4	20	17 - 22
All Chemistry Instruments	24	28.5	1.0	3.4	28	25 - 32	24	19.8	1.1	5.6	20	17 - 22
VITROS												
VITROS 250,350,500,700,750,950	31	23.1	0.4	1.6	23	20 - 26	32	16.5	0.5	3.1	16	14 - 19
All Chemistry Instruments	39	23.0	0.5	2.0	23	20 - 26	40	16.4	0.6	3.5	16	14 - 19

Urea Nitrogen (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	291	24.8	1.7	6.7	25	22 - 28
All Alfa Wassermann Reagents	48	25.4	1.0	4.0	25	23 - 28
All Horiba Pentra Reagents	21	24.9	0.9	3.7	25	22 - 28
All Roche Integra/c111/c301/c501 Reagents	35	25.1	0.9	3.6	25	22 - 28
All Vital Diagnostics Reagents	25	25.7	0.9	3.7	26	23 - 28
Abaxis Piccolo						
Abaxis Piccolo - waived	10	24.5	1.0	4.0	25	22 - 27
All Chemistry Instruments	17	24.5	0.9	3.9	25	22 - 27
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	39	25.4	1.0	4.0	25	23 - 28
Beckman AU						
Beckman AU systems	27	25.7	1.1	4.2	26	23 - 29
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	25.0	0.8	3.3	25	22 - 28
Roche Integra						
Roche Integra	25	24.9	1.0	3.8	25	22 - 28
Siemens Healthcare						
Siemens Dimension	47	25.4	1.0	4.0	25	23 - 28
All Chemistry Instruments	48	25.3	1.1	4.2	25	23 - 28
Vital Diagnostics						
Vital Diagnostics Envoy 500	22	25.7	0.9	3.7	26	23 - 28
All Chemistry Instruments	24	25.7	1.0	3.7	26	23 - 29
VITROS						
VITROS 250,350,500,700,750,950	32	21.6	0.6	2.6	22	19 - 24
All Chemistry Instruments	40	21.6	0.6	2.6	22	19 - 24

Uric Acid (mg/dL)

Specimen CH-6							Specimen CH-7					
<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	177	5.87	0.26	4.4	5.8	4.8 - 6.9	180	12.22	0.46	3.7	12.3	10.1 - 14.3
All Alfa Wassermann Reagents	24	6.30	0.21	3.3	6.3	5.2 - 7.4	24	12.52	0.33	2.6	12.5	10.3 - 14.7
All Roche Integra/c111/c301/c501 Reagents	20	5.84	0.14	2.4	5.8	4.8 - 6.9	20	12.34	0.31	2.5	12.3	10.2 - 14.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	6.30	0.21	3.3	6.3	5.2 - 7.4	24	12.52	0.33	2.6	12.5	10.3 - 14.7
Beckman AU												
Beckman AU systems	23	6.02	0.12	2.0	6.0	4.9 - 7.1	23	12.57	0.26	2.1	12.5	10.4 - 14.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	5.68	0.23	4.0	5.7	4.7 - 6.7	16	12.08	0.43	3.5	12.2	10.0 - 14.2
Roche Integra												
Roche Integra	15	5.77	0.20	3.5	5.8	4.7 - 6.8	14	12.26	0.32	2.6	12.2	10.1 - 14.4
Siemens Healthcare												
Siemens Dimension	35	5.75	0.16	2.8	5.7	4.7 - 6.8	34	12.15	0.29	2.4	12.2	10.0 - 14.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	5.92	0.14	2.4	5.9	4.9 - 7.0	14	12.58	0.24	1.9	12.6	10.4 - 14.8
VITROS												
VITROS 250,350,500,700,750,950	19	5.66	0.13	2.2	5.7	4.6 - 6.7	19	11.78	0.31	2.7	11.8	9.7 - 13.8
All Chemistry Instruments	24	5.65	0.12	2.1	5.7	4.6 - 6.7	24	11.79	0.29	2.5	11.8	9.7 - 13.8

Specimen CH-8							Specimen CH-9					
<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	176	9.33	0.31	3.3	9.3	7.7 - 11.0	179	7.60	0.28	3.7	7.6	6.3 - 8.9
All Alfa Wassermann Reagents	24	9.51	0.30	3.2	9.5	7.8 - 11.2	25	7.82	0.27	3.4	7.9	6.4 - 9.2
All Roche Integra/c111/c301/c501 Reagents	20	9.39	0.26	2.8	9.3	7.7 - 11.0	21	7.60	0.24	3.2	7.5	6.3 - 8.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	9.51	0.30	3.2	9.5	7.8 - 11.2	25	7.82	0.27	3.4	7.9	6.4 - 9.2
Beckman AU												
Beckman AU systems	23	9.56	0.16	1.7	9.5	7.9 - 11.2	23	7.82	0.18	2.3	7.8	6.4 - 9.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	9.19	0.21	2.3	9.2	7.6 - 10.8	16	7.42	0.22	2.9	7.4	6.1 - 8.7
Roche Integra												
Roche Integra	15	9.24	0.38	4.1	9.3	7.6 - 10.9	15	7.54	0.23	3.0	7.5	6.2 - 8.9
Siemens Healthcare												
Siemens Dimension	35	9.26	0.27	2.9	9.2	7.6 - 10.9	35	7.52	0.21	2.8	7.5	6.2 - 8.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	9.60	0.23	2.3	9.6	7.9 - 11.3	14	7.81	0.16	2.1	7.8	6.4 - 9.2
VITROS												
VITROS 250,350,500,700,750,950	19	8.99	0.20	2.2	9.0	7.4 - 10.6	19	7.28	0.19	2.7	7.3	6.0 - 8.6
All Chemistry Instruments	24	9.00	0.18	2.0	9.1	7.4 - 10.6	24	7.30	0.18	2.4	7.3	6.0 - 8.6

Uric Acid (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	177	5.32	0.27	5.0	5.3	4.4 - 6.3
All Alfa Wassermann Reagents	25	5.80	0.19	3.3	5.8	4.8 - 6.8
All Roche Integra/c111/c301/c501 Reagents	20	5.21	0.14	2.6	5.2	4.3 - 6.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	5.80	0.19	3.3	5.8	4.8 - 6.8
Beckman AU						
Beckman AU systems	23	5.35	0.10	1.9	5.3	4.4 - 6.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	4.98	0.21	4.2	5.0	4.1 - 5.9
Roche Integra						
Roche Integra	14	5.16	0.12	2.2	5.1	4.2 - 6.1
Siemens Healthcare						
Siemens Dimension	34	5.24	0.17	3.3	5.3	4.3 - 6.2
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	5.33	0.15	2.8	5.4	4.4 - 6.3
VITROS						
VITROS 250,350,500,700,750,950	19	5.31	0.09	1.7	5.3	4.4 - 6.3
All Chemistry Instruments	24	5.30	0.09	1.6	5.3	4.3 - 6.2

Chloride (mmol/L)

Specimen CH-6							Specimen CH-7					
<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	293	110.3	2.2	2.0	111	104 - 116	292	94.1	2.3	2.4	94	89 - 99
Abaxis Piccolo												
Abaxis Piccolo - waived	18	110.0	1.6	1.5	110	104 - 116	18	97.3	1.6	1.7	98	92 - 103
All Chemistry Instruments	26	109.8	1.6	1.5	110	104 - 116	26	96.7	1.7	1.7	97	91 - 102
ISE Diluted												
Beckman AU systems	25	109.7	1.3	1.2	110	104 - 116	25	93.3	1.1	1.2	93	88 - 98
Roche Integra	23	111.9	1.1	1.0	112	106 - 118	23	94.3	1.2	1.3	95	89 - 100
Siemens Dimension QuickLyte - Xpand/EXL	32	111.7	1.2	1.1	111	106 - 118	32	93.9	1.2	1.3	94	89 - 99
Vital Diagnostics Envoy 500	17	111.3	2.2	2.0	111	105 - 117	17	98.1	1.7	1.7	98	93 - 103
All Chemistry Instruments	144	110.9	2.1	1.9	111	105 - 117	144	94.0	2.5	2.6	94	89 - 99
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	44	111.4	1.3	1.2	111	105 - 118	42	94.2	1.2	1.2	94	89 - 99
Horiba ABX Pentra 400	12	111.0	5.0	4.5	110	105 - 117	12	93.7	3.9	4.2	93	88 - 99
All Chemistry Instruments	80	110.7	1.9	1.7	111	105 - 117	80	93.9	1.8	1.9	94	89 - 99
VITROS												
VITROS 250,350,500,700,750,950	31	107.7	1.5	1.4	108	102 - 114	31	92.6	1.1	1.2	93	87 - 98
All Chemistry Instruments	37	107.8	1.4	1.3	108	102 - 114	37	92.7	1.1	1.1	93	88 - 98

Specimen CH-8							Specimen CH-9					
<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	284	101.6	2.3	2.2	102	96 - 107	281	106.1	1.9	1.8	106	100 - 112
Abaxis Piccolo												
Abaxis Piccolo - waived	10	103.2	1.4	1.4	103	98 - 109	10	107.9	1.3	1.2	108	102 - 114
All Chemistry Instruments	18	103.2	1.8	1.7	103	98 - 109	18	107.2	1.8	1.6	108	101 - 113
ISE Diluted												
Beckman AU systems	25	100.3	1.5	1.5	100	95 - 106	24	105.4	1.3	1.3	105	100 - 111
Roche Integra	23	102.6	1.5	1.5	103	97 - 108	23	107.2	1.2	1.1	107	101 - 113
Siemens Dimension QuickLyte - Xpand/EXL	32	101.8	1.2	1.2	102	96 - 107	32	106.6	1.1	1.0	107	101 - 112
Vital Diagnostics Envoy 500	17	105.9	1.7	1.6	106	100 - 112	17	109.2	2.4	2.2	108	103 - 115
All Chemistry Instruments	144	101.8	2.6	2.5	102	96 - 107	140	106.3	2.0	1.8	106	100 - 112
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	44	102.2	1.0	1.0	102	97 - 108	44	106.5	0.9	0.8	107	101 - 112
Horiba ABX Pentra 400	12	102.9	6.5	6.3	102	97 - 109	12	107.2	5.1	4.8	106	101 - 113
All Chemistry Instruments	81	101.8	1.7	1.7	102	96 - 107	81	106.1	1.6	1.5	106	100 - 112
VITROS												
VITROS 250,350,500,700,750,950	31	99.8	1.4	1.4	100	94 - 105	31	104.1	1.3	1.2	104	98 - 110
All Chemistry Instruments	37	99.8	1.4	1.4	100	94 - 105	37	104.2	1.3	1.3	104	99 - 110

Chloride (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	283	113.0	3.2	2.8	113	107 - 119
Abaxis Piccolo						
Abaxis Piccolo - waived	10	111.8	1.4	1.3	112	106 - 118
All Chemistry Instruments	18	111.3	1.9	1.7	111	105 - 117
ISE Diluted						
Beckman AU systems	24	110.0	1.3	1.2	110	104 - 116
Roche Integra	23	114.2	2.2	1.9	113	108 - 120
Siemens Dimension QuickLyte - Xpand/EXL	32	113.4	1.4	1.2	114	107 - 120
Vital Diagnostics Envoy 500	17	118.3	2.1	1.8	118	112 - 125
All Chemistry Instruments	144	113.2	3.3	2.9	113	107 - 119
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	42	115.1	0.9	0.8	115	109 - 121
Horiba ABX Pentra 400	10	114.3	4.3	3.7	114	108 - 121
All Chemistry Instruments	81	114.6	2.8	2.5	115	108 - 121
VITROS						
VITROS 250,350,500,700,750,950	31	109.8	1.5	1.4	110	104 - 116
All Chemistry Instruments	37	109.9	1.5	1.3	110	104 - 116

CO₂ (mmol/L)

Specimen CH-6							Specimen CH-7					
<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	286	29.2	2.2	7.6	29	23 - 36	288	16.5	1.9	11.6	16	13 - 20
Enzymatic Reagent												
Abaxis Piccolo - waived	14	31.2	1.1	3.4	31	24 - 38	14	17.7	0.8	4.7	18	14 - 22
Alfa Wassermann ACE Alera/Axcel	27	29.6	2.0	6.9	29	23 - 36	27	16.0	2.1	12.9	16	12 - 20
Beckman AU systems	24	29.3	1.9	6.6	29	23 - 36	26	16.7	2.8	16.9	16	13 - 20
Horiba ABX Pentra 400	13	27.7	1.7	6.1	28	22 - 34	13	16.2	1.5	9.1	17	12 - 20
Roche Integra	23	28.5	2.2	7.6	29	22 - 35	23	16.3	2.3	14.4	17	13 - 20
Siemens Dimension	33	31.0	1.7	5.5	31	24 - 38	33	18.1	1.6	8.8	18	14 - 22
All Chemistry Instruments	172	29.6	2.1	7.2	30	23 - 36	173	16.9	1.9	11.2	17	13 - 21
ISE Diluted												
Vital Diagnostics Envoy 500	16	28.3	2.5	8.8	29	22 - 34	15	15.3	1.6	10.6	15	12 - 19
All Chemistry Instruments	33	28.3	2.4	8.4	29	22 - 34	32	15.5	1.7	11.0	16	12 - 19
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	29.8	2.4	8.1	30	23 - 36	15	16.3	2.3	14.0	16	13 - 20
All Chemistry Instruments	35	29.1	2.4	8.1	29	23 - 35	35	16.4	2.0	12.2	16	13 - 20
VITROS												
VITROS 250,350,500,700,750,950	30	27.4	1.0	3.5	27	21 - 33	29	15.4	0.8	5.3	15	12 - 19
All Chemistry Instruments	36	27.4	0.9	3.4	27	21 - 33	35	15.3	0.8	5.2	15	12 - 19

Specimen CH-8							Specimen CH-9					
<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	278	21.4	2.1	10.0	22	17 - 26	282	25.0	2.3	9.2	25	19 - 30
Enzymatic Reagent												
Abaxis Piccolo - waived	8	-	-	-	24	17 - 27	8	-	-	-	28	20 - 31
Alfa Wassermann ACE Alera/Axcel	26	21.5	1.7	7.7	22	17 - 26	27	25.2	2.2	8.7	25	20 - 31
Beckman AU systems	26	21.5	3.1	14.5	22	17 - 26	26	25.4	2.9	11.2	25	20 - 31
Horiba ABX Pentra 400	13	20.5	1.2	5.9	20	16 - 25	13	23.8	1.4	5.7	24	19 - 29
Roche Integra	23	20.3	2.9	14.2	21	16 - 25	23	24.2	2.8	11.7	25	19 - 30
Siemens Dimension	32	23.2	1.3	5.6	23	18 - 28	33	26.6	1.5	5.7	27	21 - 32
All Chemistry Instruments	165	21.7	2.1	9.6	22	17 - 27	168	25.4	2.3	9.1	26	20 - 31
ISE Diluted												
Vital Diagnostics Envoy 500	16	21.5	3.7	17.1	22	17 - 26	16	24.2	2.5	10.2	25	19 - 30
All Chemistry Instruments	32	20.8	2.1	10.2	22	16 - 25	33	24.6	2.2	9.0	25	19 - 30
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	21.4	2.7	12.6	23	17 - 26	15	25.1	2.4	9.7	26	20 - 31
All Chemistry Instruments	35	21.3	2.4	11.1	21	17 - 26	35	24.9	2.3	9.2	25	19 - 30
VITROS												
VITROS 250,350,500,700,750,950	30	20.0	1.1	5.3	20	15 - 24	30	23.1	1.2	5.0	23	18 - 28
All Chemistry Instruments	36	20.0	1.1	5.4	20	15 - 24	36	23.2	1.3	5.5	23	18 - 28

CO₂ (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	279	28.5	2.7	9.5	29	22 - 35
Enzymatic Reagent						
Abaxis Piccolo - waived	8	-	-	-	31	23 - 35
Alfa Wassermann ACE Alera/Axcel	27	29.1	2.9	9.9	30	23 - 35
Beckman AU systems	25	28.5	2.9	10.3	29	22 - 35
Horiba ABX Pentra 400	13	27.9	1.4	5.2	27	22 - 34
Roche Integra	23	27.4	2.2	8.1	28	21 - 33
Siemens Dimension	33	30.1	1.5	5.1	30	24 - 37
All Chemistry Instruments	166	29.0	2.5	8.5	29	23 - 35
ISE Diluted						
Vital Diagnostics Envoy 500	16	28.1	3.5	12.6	28	22 - 34
All Chemistry Instruments	33	28.3	2.9	10.4	29	22 - 34
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	15	28.6	3.3	11.4	29	22 - 35
All Chemistry Instruments	35	28.5	3.2	11.2	28	22 - 35
VITROS						
VITROS 250,350,500,700,750,950	29	26.0	1.5	6.0	26	20 - 32
All Chemistry Instruments	35	26.1	2.0	7.5	26	20 - 32

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	294	5.04	0.11	2.3	5.0	4.5 - 5.6	300	2.97	0.10	3.4	3.0	2.4 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	18	5.19	0.17	3.2	5.1	4.6 - 5.7	18	2.78	0.14	5.2	2.7	2.2 - 3.3
All Chemistry Instruments	26	5.22	0.20	3.8	5.2	4.7 - 5.8	26	2.80	0.14	5.0	2.8	2.3 - 3.4
ISE Diluted												
Beckman AU systems	25	4.98	0.07	1.3	5.0	4.4 - 5.5	25	2.98	0.04	1.3	3.0	2.4 - 3.5
Roche Integra	23	5.06	0.05	1.0	5.1	4.5 - 5.6	24	3.00	0.04	1.2	3.0	2.4 - 3.5
Siemens Dimension QuickLyte - Xpand/EXL	32	5.04	0.06	1.1	5.0	4.5 - 5.6	32	2.95	0.05	1.7	3.0	2.4 - 3.5
Vital Diagnostics Envoy 500	16	4.86	0.15	3.0	4.8	4.3 - 5.4	16	2.86	0.09	3.1	2.9	2.3 - 3.4
All Chemistry Instruments	138	5.02	0.10	2.0	5.0	4.5 - 5.6	138	2.97	0.07	2.2	3.0	2.4 - 3.5
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	45	5.10	0.07	1.4	5.1	4.6 - 5.7	43	2.99	0.08	2.7	3.0	2.4 - 3.5
Horiba ABX Pentra 400	14	4.92	0.06	1.2	4.9	4.4 - 5.5	14	3.05	0.09	3.1	3.0	2.5 - 3.6
All Chemistry Instruments	87	5.03	0.11	2.3	5.0	4.5 - 5.6	89	2.98	0.11	3.6	3.0	2.4 - 3.5
VITROS												
VITROS 250,350,500,700,750,950	32	5.05	0.06	1.2	5.1	4.5 - 5.6	32	3.05	0.06	2.0	3.1	2.5 - 3.6
All Chemistry Instruments	40	5.06	0.06	1.2	5.1	4.5 - 5.6	42	3.05	0.06	1.9	3.1	2.5 - 3.6
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	291	3.95	0.10	2.5	4.0	3.4 - 4.5	283	4.50	0.08	1.9	4.5	3.9 - 5.0
Abaxis Piccolo												
Abaxis Piccolo - waived	10	3.89	0.16	4.1	3.8	3.3 - 4.4	10	4.59	0.14	3.2	4.6	4.0 - 5.1
All Chemistry Instruments	18	3.93	0.19	4.8	3.9	3.4 - 4.5	18	4.61	0.14	3.0	4.6	4.1 - 5.2
ISE Diluted												
Beckman AU systems	25	3.90	0.04	1.0	3.9	3.4 - 4.4	25	4.46	0.06	1.3	4.5	3.9 - 5.0
Roche Integra	23	3.98	0.04	1.0	4.0	3.4 - 4.5	23	4.51	0.04	0.9	4.5	4.0 - 5.1
Siemens Dimension QuickLyte - Xpand/EXL	32	3.93	0.04	1.1	3.9	3.4 - 4.5	32	4.48	0.05	1.1	4.5	3.9 - 5.0
Vital Diagnostics Envoy 500	16	3.79	0.10	2.5	3.8	3.2 - 4.3	16	4.33	0.12	2.8	4.3	3.8 - 4.9
All Chemistry Instruments	138	3.92	0.08	2.1	3.9	3.4 - 4.5	136	4.48	0.07	1.6	4.5	3.9 - 5.0
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	45	3.97	0.07	1.7	4.0	3.4 - 4.5	44	4.52	0.05	1.0	4.5	4.0 - 5.1
Horiba ABX Pentra 400	14	3.99	0.09	2.4	4.0	3.4 - 4.5	14	4.46	0.07	1.7	4.5	3.9 - 5.0
All Chemistry Instruments	87	3.95	0.09	2.2	4.0	3.4 - 4.5	86	4.48	0.08	1.9	4.5	3.9 - 5.0
VITROS												
VITROS 250,350,500,700,750,950	32	4.05	0.06	1.5	4.1	3.5 - 4.6	32	4.57	0.07	1.5	4.6	4.0 - 5.1
All Chemistry Instruments	42	4.05	0.07	1.7	4.1	3.5 - 4.6	42	4.56	0.08	1.7	4.6	4.0 - 5.1

Potassium (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	295	5.41	0.18	3.3	5.4	4.9 - 6.0
Abaxis Piccolo						
Abaxis Piccolo - waived	10	5.38	0.25	4.7	5.3	4.8 - 5.9
All Chemistry Instruments	18	5.43	0.24	4.5	5.5	4.9 - 6.0
ISE Diluted						
Beckman AU systems	25	5.30	0.07	1.3	5.3	4.8 - 5.8
Roche Integra	23	5.37	0.06	1.0	5.4	4.8 - 5.9
Siemens Dimension QuickLyte - Xpand/EXL	32	5.34	0.05	0.9	5.3	4.8 - 5.9
Vital Diagnostics Envoy 500	16	5.18	0.16	3.1	5.2	4.6 - 5.7
All Chemistry Instruments	134	5.34	0.09	1.6	5.3	4.8 - 5.9
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	43	5.59	0.07	1.2	5.6	5.0 - 6.1
Horiba ABX Pentra 400	14	5.40	0.12	2.3	5.4	4.9 - 5.9
All Chemistry Instruments	88	5.45	0.19	3.5	5.5	4.9 - 6.0
VITROS						
VITROS 250,350,500,700,750,950	32	5.58	0.09	1.6	5.6	5.0 - 6.1
All Chemistry Instruments	42	5.58	0.09	1.5	5.6	5.0 - 6.1

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-6							Specimen CH-7					
<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	301	145.6	2.2	1.5	145	141 - 150	301	125.6	2.2	1.8	125	121 - 130
Abaxis Piccolo												
Abaxis Piccolo - waived	18	146.9	2.0	1.4	148	142 - 151	18	128.4	1.2	1.0	129	124 - 133
All Chemistry Instruments	26	147.0	2.1	1.5	147	143 - 152	26	128.5	1.5	1.1	128	124 - 133
ISE Diluted												
Beckman AU systems	24	143.4	1.4	1.0	143	139 - 148	24	123.7	0.8	0.7	124	119 - 128
Roche Integra	23	144.8	1.2	0.8	145	140 - 149	24	124.8	1.0	0.8	125	120 - 129
Siemens Dimension QuickLyte - Xpand/EXL	33	146.6	1.6	1.1	146	142 - 151	32	126.7	1.2	0.9	127	122 - 131
Vital Diagnostics Envoy 500	16	144.6	3.1	2.1	144	140 - 149	16	124.1	1.8	1.4	124	120 - 129
All Chemistry Instruments	142	145.1	2.2	1.5	145	141 - 150	142	125.2	1.8	1.4	125	121 - 130
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	44	145.4	1.4	1.0	145	141 - 150	43	124.0	1.3	1.0	124	119 - 128
Horiba ABX Pentra 400	13	145.1	1.7	1.1	145	141 - 150	13	126.6	1.6	1.3	127	122 - 131
All Chemistry Instruments	87	145.1	1.5	1.0	145	141 - 150	85	124.5	1.6	1.2	124	120 - 129
VITROS												
VITROS 250,350,500,700,750,950	32	147.7	1.9	1.3	148	143 - 152	32	127.6	1.7	1.4	128	123 - 132
All Chemistry Instruments	38	147.7	2.0	1.3	148	143 - 152	38	127.4	1.7	1.4	128	123 - 132

Specimen CH-8							Specimen CH-9					
<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	290	135.5	2.2	1.6	135	131 - 140	291	140.5	2.2	1.6	140	136 - 145
Abaxis Piccolo												
Abaxis Piccolo - waived	10	137.0	1.5	1.1	137	133 - 141	10	142.0	1.1	0.7	142	138 - 146
All Chemistry Instruments	18	137.4	1.5	1.1	137	133 - 142	18	142.1	1.8	1.2	142	138 - 147
ISE Diluted												
Beckman AU systems	24	133.2	1.1	0.8	133	129 - 138	24	138.7	1.3	1.0	139	134 - 143
Roche Integra	24	134.3	1.0	0.8	134	130 - 139	23	139.3	0.9	0.7	139	135 - 144
Siemens Dimension QuickLyte - Xpand/EXL	33	135.9	1.2	0.9	136	131 - 140	33	141.2	1.6	1.1	141	137 - 146
Vital Diagnostics Envoy 500	16	133.6	2.3	1.7	134	129 - 138	16	139.9	2.6	1.9	140	135 - 144
All Chemistry Instruments	139	134.8	1.7	1.3	135	130 - 139	141	140.1	1.9	1.4	140	136 - 145
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	44	134.8	0.9	0.7	135	130 - 139	44	139.5	0.9	0.6	140	135 - 144
Horiba ABX Pentra 400	13	137.1	1.8	1.3	137	133 - 142	13	141.5	1.9	1.3	142	137 - 146
All Chemistry Instruments	85	134.8	1.4	1.0	135	130 - 139	85	139.7	1.3	0.9	140	135 - 144
VITROS												
VITROS 250,350,500,700,750,950	32	138.4	1.8	1.3	138	134 - 143	32	143.5	1.7	1.2	144	139 - 148
All Chemistry Instruments	38	138.4	1.8	1.3	138	134 - 143	38	143.3	1.8	1.2	144	139 - 148

Sodium (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	292	151.0	3.8	2.5	150	146 - 155
Abaxis Piccolo						
Abaxis Piccolo - waived	10	154.3	1.2	0.8	155	150 - 159
All Chemistry Instruments	18	154.0	1.9	1.2	154	150 - 158
ISE Diluted						
Beckman AU systems	24	146.9	1.5	1.0	147	142 - 151
Roche Integra	24	147.7	1.0	0.7	148	143 - 152
Siemens Dimension QuickLyte - Xpand/EXL	33	148.9	1.5	1.0	149	144 - 153
Vital Diagnostics Envoy 500	16	149.0	2.7	1.8	149	145 - 153
All Chemistry Instruments	139	148.3	2.1	1.4	148	144 - 153
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	42	153.3	1.0	0.6	153	149 - 158
Horiba ABX Pentra 400	13	154.5	2.4	1.6	154	150 - 159
All Chemistry Instruments	88	152.0	3.0	2.0	153	147 - 156
VITROS						
VITROS 250,350,500,700,750,950	32	156.3	1.9	1.2	156	152 - 161
All Chemistry Instruments	38	156.1	2.0	1.3	156	152 - 161

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	177.7	47.5	26.7	205	82 - 273	24	219.3	67.5	30.8	243	84 - 355
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	23	177.7	47.5	26.7	205	82 - 273	24	219.3	67.5	30.8	243	84 - 355
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	249.4	75.6	30.3	272	98 - 401	24	219.0	62.3	28.4	243	94 - 344
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	24	249.4	75.6	30.3	272	98 - 401	24	219.0	62.3	28.4	243	94 - 344
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	328.4	77.7	23.7	369	173 - 484						
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	23	328.4	77.7	23.7	369	173 - 484						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	160.4	24.2	15.1	157	112 - 209	32	186.2	23.4	12.6	189	139 - 233
Siemens Healthcare												
Siemens Dimension	20	150.8	11.2	7.5	150	120 - 181	19	187.2	10.8	5.8	188	149 - 225
VITROS												
VITROS 250,350,500,700,750,950	10	353.7	37.0	10.5	373	279 – 428	10	433.0	45.5	10.5	441	341 - 525
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	207.2	27.1	13.1	213	152 - 262	32	185.9	20.5	11.0	185	144 - 227
Siemens Healthcare												
Siemens Dimension	19	215.4	11.2	5.2	215	172 - 259	20	183.7	6.9	3.8	183	146 - 221
VITROS												
VITROS 250,350,500,700,750,950	10	501.3	61.9	12.3	475	377 – 626	10	405.0	39.4	9.7	388	324 – 486
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	265.1	67.8	25.6	304	129 - 401						
Siemens Healthcare												
Siemens Dimension	20	305.9	9.3	3.0	306	244 - 368						
VITROS												
VITROS 250,350,500,700,750,950	10	823.3	120.7	14.7	800	581 - 1065						

UIBC – Direct (µg/dL)

Specimen CH-6							Specimen CH-7					
<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	32	102.1	8.3	8.1	102	81 - 123	32	94.6	9.4	10.0	95	75 - 114
All Roche Integra/c111/c301/c501 Reagents	13	102.0	15.4	15.1	105	71 - 133	13	95.5	15.0	15.7	96	65 - 126
Beckman AU												
Beckman AU systems	13	99.4	7.3	7.4	99	79 - 120	13	93.4	7.7	8.3	93	74 - 113
Specimen CH-8							Specimen CH-9					
All Method	32	109.4	7.8	7.1	110	87 - 132	32	105.9	8.4	8.0	106	84 - 128
All Roche Integra/c111/c301/c501 Reagents	13	108.9	14.8	13.6	111	79 - 139	13	104.8	15.1	14.4	108	74 - 135
Beckman AU												
Beckman AU systems	13	109.8	5.3	4.8	111	87 - 132	13	106.0	7.1	6.7	104	84 - 128
Specimen CH-10												
All Method	32	141.9	9.2	6.5	143	113 - 171						
All Roche Integra/c111/c301/c501 Reagents	13	138.5	17.7	12.8	143	103 - 174						
Beckman AU												
Beckman AU systems	13	146.1	5.1	3.5	145	116 - 176						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	283	37.7	7.4	19.6	38	30 - 46	281	197.4	19.3	9.8	200	157 - 237
All Alfa Wassermann Reagents	46	26.7	1.9	7.1	27	21 - 33	45	172.1	3.4	2.0	172	137 - 207
All Horiba Pentra Reagents	21	39.6	1.4	3.6	39	31 - 48	20	215.2	4.4	2.0	215	172 - 259
All Roche Integra/c111/c301/c501 Reagents	34	35.3	1.2	3.5	35	28 - 43	33	195.1	5.5	2.8	195	156 - 235
All Vital Diagnostics Reagents	26	39.6	2.5	6.4	40	31 - 48	25	216.3	13.0	6.0	218	173 - 260
Abaxis Piccolo												
Abaxis Piccolo - waived	18	37.9	1.7	4.4	38	30 - 46	19	177.6	4.8	2.7	178	142 - 214
All Chemistry Instruments	26	38.1	2.9	7.5	38	30 - 46	26	177.8	4.5	2.5	178	142 - 214
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	27.0	1.8	6.8	27	21 - 33	37	172.8	3.8	2.2	172	138 - 208
Beckman AU												
Beckman AU systems	27	33.1	1.0	3.0	33	26 - 40	27	178.5	4.4	2.4	178	142 - 215
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	39.5	1.4	3.6	39	31 - 48	19	214.8	4.3	2.0	215	171 - 258
Roche Integra												
Roche Integra	26	35.2	1.3	3.7	35	28 - 43	25	195.5	5.1	2.6	195	156 - 235
Siemens Healthcare												
Siemens Dimension	13	42.3	5.8	13.7	41	33 - 51	13	213.8	9.9	4.6	215	171 - 257
Siemens Healthcare ALTi												
Siemens Dimension	36	39.8	2.0	4.9	40	31 - 48	37	213.4	5.7	2.7	211	170 - 257
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	40.1	1.9	4.7	40	32 - 49	22	218.6	10.4	4.8	218	174 - 263
All Chemistry Instruments	25	39.6	2.6	6.5	40	31 - 48	24	216.1	13.2	6.1	218	172 - 260
VITROS												
VITROS 250,350,500,700,750,950	31	51.4	3.5	6.7	52	41 - 62	31	215.9	4.6	2.1	216	172 - 260
All Chemistry Instruments	37	51.5	3.3	6.5	52	41 - 62	37	216.1	4.6	2.1	216	172 - 260

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	158.1	14.9	9.4	161	126 - 190	272	98.0	10.5	10.7	99	78 - 118
All Alfa Wassermann Reagents	46	136.9	2.9	2.1	137	109 - 165	45	82.2	2.0	2.4	82	65 - 99
All Horiba Pentra Reagents	20	172.1	5.0	2.9	172	137 - 207	20	106.3	3.0	2.8	106	85 - 128
All Roche Integra/c111/c301/c501 Reagents	34	155.3	4.3	2.8	155	124 - 187	34	95.5	2.8	2.9	96	76 - 115
All Vital Diagnostics Reagents	26	173.5	10.3	5.9	175	138 - 209	26	107.8	5.4	5.0	108	86 - 130
Abaxis Piccolo												
Abaxis Piccolo - waived	11	143.8	3.7	2.6	144	115 - 173	11	90.5	3.6	4.0	91	72 - 109
All Chemistry Instruments	18	144.8	3.5	2.4	145	115 - 174	18	91.7	3.5	3.8	92	73 - 111
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	137.3	3.1	2.2	137	109 - 165	36	82.7	2.0	2.4	83	66 - 100
Beckman AU												
Beckman AU systems	27	143.1	3.4	2.4	142	114 - 172	27	87.9	1.9	2.1	88	70 - 106
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	171.8	5.0	2.9	172	137 - 207	19	106.1	3.0	2.8	106	84 - 128
Roche Integra												
Roche Integra	26	155.5	4.1	2.6	155	124 - 187	26	95.6	2.7	2.8	96	76 - 115
Siemens Healthcare												
Siemens Dimension	13	170.8	6.9	4.0	169	136 - 206	13	107.8	6.3	5.8	108	86 - 130
Siemens Healthcare ALTi												
Siemens Dimension	37	170.2	4.0	2.3	170	136 - 205	37	105.8	3.0	2.8	106	84 - 127
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	174.9	9.4	5.4	175	139 - 210	23	108.5	4.9	4.5	108	86 - 131
All Chemistry Instruments	25	173.4	10.5	6.1	175	138 - 209	25	107.7	5.5	5.1	107	86 - 130
VITROS												
VITROS 250,350,500,700,750,950	31	170.4	3.6	2.1	171	136 - 205	30	109.7	3.3	3.0	110	87 - 132
All Chemistry Instruments	37	170.6	3.7	2.2	171	136 - 205	36	110.1	3.5	3.1	110	88 - 133

ALT (SGPT) (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	272	137.0	13.5	9.8	139	109 - 165
All Alfa Wassermann Reagents	45	117.1	2.4	2.1	117	93 - 141
All Horiba Pentra Reagents	20	149.7	3.7	2.5	149	119 - 180
All Roche Integra/c111/c301/c501 Reagents	34	134.6	3.8	2.8	135	107 - 162
All Vital Diagnostics Reagents	26	154.0	9.5	6.2	156	123 - 185
Abaxis Piccolo						
Abaxis Piccolo - waived	11	127.0	4.5	3.5	127	101 - 153
All Chemistry Instruments	18	127.3	4.6	3.6	128	101 - 153
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	36	117.4	2.3	2.0	117	93 - 141
Beckman AU						
Beckman AU systems	27	124.8	3.0	2.4	124	99 - 150
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	149.4	3.6	2.4	148	119 - 180
Roche Integra						
Roche Integra	26	134.4	3.7	2.8	135	107 - 162
Siemens Healthcare						
Siemens Dimension	13	150.4	6.6	4.4	148	120 - 181
Siemens Healthcare ALTi						
Siemens Dimension	35	147.9	3.0	2.0	148	118 - 178
Vital Diagnostics						
Vital Diagnostics Envoy 500	23	155.2	8.6	5.5	156	124 - 187
All Chemistry Instruments	25	153.8	9.6	6.2	155	123 - 185
VITROS						
VITROS 250,350,500,700,750,950	30	143.4	4.0	2.8	144	114 - 173
All Chemistry Instruments	36	143.4	4.3	3.0	144	114 - 173

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	292	45.6	6.0	13.2	46	31 - 60	292	274.0	50.5	18.4	285	191 - 357
All Alfa Wassermann Reagents	45	46.3	3.0	6.4	46	32 - 61	45	289.6	17.6	6.1	292	202 - 377
All Horiba Pentra Reagents	20	51.4	2.5	4.8	51	35 - 67	20	320.5	10.3	3.2	320	224 - 417
All Roche Integra/c111/c301/c501 Reagents	32	46.5	1.6	3.4	47	32 - 61	33	298.9	9.1	3.0	300	209 - 389
All Vital Diagnostics Reagents	26	45.8	5.0	10.8	47	32 - 60	26	263.3	22.0	8.3	269	184 - 343
Abaxis Piccolo												
Abaxis Piccolo - waived	19	37.5	3.2	8.4	37	26 - 49	19	201.5	9.7	4.8	202	141 - 262
All Chemistry Instruments	26	36.8	3.9	10.5	37	25 - 48	26	201.7	9.1	4.5	201	141 - 263
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	10	47.8	2.1	4.5	48	33 - 63	10	293.4	18.1	6.2	296	205 - 382
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	35	45.9	3.1	6.7	46	32 - 60	35	288.5	17.5	6.1	287	201 - 376
Beckman AU												
Beckman AU systems	27	42.6	3.4	8.1	43	29 - 56	27	267.4	18.3	6.8	270	187 - 348
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	51.4	2.5	5.0	51	35 - 67	19	319.5	9.6	3.0	320	223 - 416
Roche Integra												
Roche Integra	24	46.5	1.6	3.4	47	32 - 61	25	300.0	8.2	2.7	300	209 - 390
Siemens Healthcare												
Siemens Dimension	20	54.1	3.9	7.1	54	37 - 71	20	333.1	11.9	3.6	334	233 - 433
Siemens Healthcare ALPi												
Siemens Dimension	30	52.2	2.9	5.5	53	36 - 68	30	333.1	10.5	3.1	333	233 - 434
Vital Diagnostics												
Vital Diagnostics Envoy 500	23	47.2	3.4	7.2	47	33 - 62	22	271.2	11.2	4.1	270	189 - 353
All Chemistry Instruments	25	46.3	4.4	9.6	47	32 - 61	25	265.0	20.4	7.7	269	185 - 345
VITROS												
VITROS 250,350,500,700,750,950	30	39.9	2.4	6.1	40	27 - 52	30	189.8	12.0	6.3	189	132 - 247
All Chemistry Instruments	34	39.4	1.7	4.3	40	27 - 52	36	189.7	11.5	6.1	188	132 - 247

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	283	216.8	35.9	16.5	224	151 - 282	281	131.1	19.0	14.5	134	91 - 171
All Alfa Wassermann Reagents	45	226.4	13.3	5.9	227	158 - 295	45	135.5	8.2	6.0	135	94 - 177
All Horiba Pentra Reagents	20	250.1	8.7	3.5	249	175 - 326	20	149.3	5.5	3.7	149	104 - 195
All Roche Integra/c111/c301/c501 Reagents	33	231.7	7.2	3.1	231	162 - 302	33	137.6	4.5	3.3	137	96 - 179
All Vital Diagnostics Reagents	26	206.0	16.1	7.8	210	144 - 268	26	124.9	11.0	8.8	127	87 - 163
Abaxis Piccolo												
Abaxis Piccolo - waived	11	157.7	4.4	2.8	159	110 - 206	11	99.2	4.1	4.2	99	69 - 129
All Chemistry Instruments	18	159.1	6.1	3.8	160	111 - 207	18	99.1	3.6	3.6	99	69 - 129
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	10	229.5	11.5	5.0	231	160 - 299	10	138.5	7.2	5.2	140	96 - 181
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	35	225.5	13.8	6.1	227	157 - 294	35	134.7	8.3	6.2	135	94 - 176
Beckman AU												
Beckman AU systems	27	208.9	15.4	7.4	208	146 - 272	27	124.5	9.2	7.4	123	87 - 162
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	249.4	8.3	3.3	248	174 - 325	19	149.1	5.5	3.7	148	104 - 194
Roche Integra												
Roche Integra	25	232.0	6.6	2.8	232	162 - 302	25	137.6	4.1	2.9	137	96 - 179
Siemens Healthcare												
Siemens Dimension	20	257.8	7.9	3.1	260	180 - 336	20	154.5	6.5	4.2	155	108 - 201
Siemens Healthcare ALPi												
Siemens Dimension	30	259.1	8.9	3.4	259	181 - 337	30	153.9	5.1	3.3	153	107 - 201
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	211.8	8.2	3.9	212	148 - 276	22	128.8	6.0	4.7	129	90 - 168
All Chemistry Instruments	25	207.3	14.9	7.2	211	145 - 270	25	125.9	9.8	7.8	127	88 - 164
VITROS												
VITROS 250,350,500,700,750,950	30	158.5	9.8	6.2	157	110 - 207	29	104.1	6.3	6.1	103	72 - 136
All Chemistry Instruments	35	158.3	9.6	6.1	157	110 - 206	35	103.3	6.1	6.0	102	72 - 135

Alkaline Phosphatase (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	283	183.3	28.0	15.3	189	128 - 239
All Alfa Wassermann Reagents	45	190.1	10.9	5.7	191	133 - 248
All Horiba Pentra Reagents	20	208.6	9.2	4.4	207	145 - 272
All Roche Integra/c111/c301/c501 Reagents	33	193.4	5.9	3.1	194	135 - 252
All Vital Diagnostics Reagents	26	175.2	14.5	8.3	178	122 - 228
Abaxis Piccolo						
Abaxis Piccolo - waived	11	135.0	3.5	2.6	135	94 - 176
All Chemistry Instruments	18	134.3	4.4	3.3	136	93 - 175
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	10	194.1	8.4	4.3	194	135 - 253
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	35	189.0	11.4	6.0	189	132 - 246
Beckman AU						
Beckman AU systems	27	176.2	12.0	6.8	177	123 - 230
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	208.0	9.1	4.4	206	145 - 271
Roche Integra						
Roche Integra	25	193.4	5.1	2.7	194	135 - 252
Siemens Healthcare						
Siemens Dimension	20	216.7	8.0	3.7	217	151 - 282
Siemens Healthcare ALPi						
Siemens Dimension	30	217.3	7.0	3.2	217	152 - 283
Vital Diagnostics						
Vital Diagnostics Envoy 500	22	180.4	7.9	4.4	179	126 - 235
All Chemistry Instruments	25	176.4	13.3	7.5	178	123 - 230
VITROS						
VITROS 250,350,500,700,750,950	28	141.3	8.2	5.8	141	98 - 184
All Chemistry Instruments	34	141.5	7.7	5.4	141	99 - 184

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	245	35.0	6.7	19.1	36	27 - 42	244	179.0	19.6	11.0	181	143 - 215
All Alfa Wassermann Reagents	45	26.5	1.9	7.2	26	21 - 32	46	163.6	8.1	5.0	165	130 - 197
All Horiba Pentra Reagents	21	34.2	1.8	5.4	34	27 - 42	20	180.2	8.4	4.6	182	144 - 217
All Roche Integra/c111/c301/c501 Reagents	33	33.2	1.5	4.5	33	26 - 40	33	176.2	7.1	4.0	175	140 - 212
All Vital Diagnostics Reagents	25	36.6	3.2	8.7	38	29 - 44	26	188.7	14.6	7.7	190	150 - 227
Abaxis Piccolo												
Abaxis Piccolo - waived	19	38.2	2.7	7.2	38	30 - 46	19	175.6	8.3	4.7	176	140 - 211
All Chemistry Instruments	26	38.5	2.6	6.7	39	30 - 47	26	175.6	8.0	4.5	177	140 - 211
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	36	26.6	2.0	7.4	26	21 - 32	37	163.9	8.4	5.1	165	131 - 197
Beckman AU												
Beckman AU systems	27	29.9	1.7	5.6	30	23 - 36	27	155.0	6.5	4.2	155	124 - 187
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	34.3	1.8	5.3	34	27 - 42	19	180.0	8.6	4.8	181	144 - 216
Roche Integra												
Roche Integra	25	33.4	1.6	4.7	33	26 - 41	25	177.4	7.1	4.0	176	141 - 213
Siemens Healthcare												
Siemens Dimension	49	49.3	2.3	4.7	49	39 - 60	50	224.4	7.4	3.3	225	179 - 270
Vital Diagnostics												
Vital Diagnostics Envoy 500	21	37.2	2.6	7.0	38	29 - 45	22	190.7	13.9	7.3	192	152 - 229
All Chemistry Instruments	24	36.8	3.0	8.3	38	29 - 45	24	187.9	11.1	5.9	190	150 - 226
VITROS												
VITROS 250,350,500,700,750,950	31	46.2	2.1	4.5	46	36 - 56	31	210.6	9.4	4.5	210	168 - 253
All Chemistry Instruments	37	46.2	2.0	4.3	46	36 - 56	37	211.1	9.1	4.3	211	168 - 254

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	236	143.2	17.6	12.3	144	114 - 172	235	88.9	12.2	13.7	89	71 - 107
All Alfa Wassermann Reagents	46	129.2	6.3	4.9	130	103 - 156	46	78.0	4.5	5.8	78	62 - 94
All Horiba Pentra Reagents	20	143.8	7.2	5.0	144	115 - 173	20	89.3	4.5	5.0	89	71 - 108
All Roche Integra/c111/c301/c501 Reagents	33	138.7	5.7	4.1	138	110 - 167	33	85.5	3.8	4.5	84	68 - 103
All Vital Diagnostics Reagents	26	150.7	11.8	7.8	151	120 - 181	25	93.3	6.6	7.0	94	74 - 112
Abaxis Piccolo												
Abaxis Piccolo - waived	11	138.6	7.5	5.4	142	110 - 167	11	89.1	4.1	4.6	90	71 - 107
All Chemistry Instruments	18	140.3	6.9	4.9	142	112 - 169	18	89.6	4.5	5.0	90	71 - 108
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	129.5	6.5	5.0	129	103 - 156	37	78.2	4.7	6.0	78	62 - 94
Beckman AU												
Beckman AU systems	27	123.2	4.9	4.0	124	98 - 148	27	76.2	3.3	4.3	77	60 - 92
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	143.9	7.3	5.1	144	115 - 173	19	89.3	4.6	5.1	89	71 - 108
Roche Integra												
Roche Integra	25	139.4	5.9	4.3	139	111 - 168	25	86.2	3.9	4.5	86	68 - 104
Siemens Healthcare												
Siemens Dimension	50	182.0	6.5	3.6	182	145 - 219	50	115.6	4.0	3.5	116	92 - 139
Vital Diagnostics												
Vital Diagnostics Envoy 500	22	152.5	10.9	7.2	154	122 - 183	21	94.5	5.8	6.2	96	75 - 114
All Chemistry Instruments	25	151.6	11.1	7.3	153	121 - 182	24	93.8	6.3	6.7	95	75 - 113
VITROS												
VITROS 250,350,500,700,750,950	31	173.2	7.2	4.2	174	138 - 208	30	109.7	4.8	4.4	109	87 - 132
All Chemistry Instruments	37	173.5	7.0	4.1	174	138 - 209	36	110.0	4.7	4.3	111	88 - 133

AST (SGOT) (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	235	124.4	18.1	14.5	124	99 - 150
All Alfa Wassermann Reagents	46	109.2	6.0	5.5	109	87 - 132
All Horiba Pentra Reagents	20	123.3	6.9	5.6	125	98 - 148
All Roche Integra/c111/c301/c501 Reagents	33	118.9	5.1	4.3	118	95 - 143
All Vital Diagnostics Reagents	26	132.2	11.1	8.4	134	105 - 159
Abaxis Piccolo						
Abaxis Piccolo - waived	11	122.5	7.6	6.2	125	98 - 148
All Chemistry Instruments	18	123.5	6.4	5.2	125	98 - 149
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	37	109.3	6.4	5.9	109	87 - 132
Beckman AU						
Beckman AU systems	27	106.2	4.8	4.5	107	84 - 128
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	122.9	6.8	5.6	124	98 - 148
Roche Integra						
Roche Integra	25	119.6	5.0	4.2	119	95 - 144
Siemens Healthcare						
Siemens Dimension	50	162.4	5.5	3.4	163	129 - 195
Vital Diagnostics						
Vital Diagnostics Envoy 500	22	134.2	10.1	7.5	136	107 - 162
All Chemistry Instruments	25	133.0	10.6	8.0	135	106 - 160
VITROS						
VITROS 250,350,500,700,750,950	30	157.5	6.8	4.3	158	125 - 189
All Chemistry Instruments	36	157.8	6.5	4.1	158	126 - 190

Creatine Kinase (IU/L)

Specimen CH-6							Specimen CH-7					
<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	129	102.7	12.2	11.9	102	71 - 134	127	122.0	11.7	9.6	121	85 - 159
All Alfa Wassermann Reagents	17	99.9	6.6	6.6	99	69 - 130	17	117.5	8.1	6.9	117	82 - 153
All Roche Integra/c111/c301/c501 Reagents	17	117.5	3.3	2.8	118	82 - 153	17	138.5	4.5	3.3	137	96 - 181
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	99.3	7.5	7.6	99	69 - 130	11	117.8	9.1	7.7	118	82 - 154
Beckman AU												
Beckman AU systems	18	96.6	2.3	2.4	97	67 - 126	19	112.9	4.7	4.2	114	79 - 147
Roche Integra												
Roche Integra	12	116.3	3.1	2.6	116	81 - 152	12	137.3	4.1	3.0	137	96 - 179
Siemens Healthcare CKI												
Siemens Dimension	19	101.6	4.5	4.4	102	71 - 133	19	120.7	4.5	3.7	121	84 - 157
VITROS												
VITROS 250,350,500,700,750,950	10	81.7	4.2	5.2	81	57 - 107	10	110.5	7.4	6.7	109	77 - 144
All Chemistry Instruments	13	80.9	5.2	6.4	80	56 - 106	13	110.0	7.9	7.2	109	77 - 143

Specimen CH-8							Specimen CH-9					
<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	126	168.6	16.7	9.9	167	118 - 220	126	135.9	14.2	10.5	135	95 - 177
All Alfa Wassermann Reagents	17	162.5	8.7	5.4	162	113 - 212	17	132.1	8.2	6.2	130	92 - 172
All Roche Integra/c111/c301/c501 Reagents	17	191.6	6.0	3.1	191	134 - 250	17	154.9	4.2	2.7	154	108 - 202
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	161.8	9.6	5.9	160	113 - 211	11	131.5	9.2	7.0	130	92 - 171
Beckman AU												
Beckman AU systems	19	157.5	6.2	4.0	159	110 - 205	19	127.3	5.0	3.9	128	89 - 166
Roche Integra												
Roche Integra	12	189.5	5.1	2.7	189	132 - 247	12	153.4	3.7	2.4	153	107 - 200
Siemens Healthcare CKI												
Siemens Dimension	19	168.7	5.7	3.4	169	118 - 220	18	135.1	4.7	3.5	134	94 - 176
VITROS												
VITROS 250,350,500,700,750,950	10	145.3	12.1	8.3	144	101 - 189	10	112.3	7.6	6.8	111	78 - 146
All Chemistry Instruments	13	144.8	12.5	8.6	143	101 - 189	13	112.7	7.9	7.0	110	78 - 147

Creatine Kinase (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	125	296.1	30.4	10.3	295	207 - 385
All Alfa Wassermann Reagents	17	278.9	15.3	5.5	278	195 - 363
All Roche Integra/c111/c301/c501 Reagents	17	338.1	10.4	3.1	337	236 - 440
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	278.4	18.2	6.5	277	194 - 362
Beckman AU						
Beckman AU systems	18	281.9	6.5	2.3	283	197 - 367
Roche Integra						
Roche Integra	12	333.8	7.8	2.3	333	233 - 434
Siemens Healthcare CKI						
Siemens Dimension	18	296.4	5.4	1.8	296	207 - 386
VITROS						
VITROS 250,350,500,700,750,950	10	243.5	25.1	10.3	243	170 - 317
All Chemistry Instruments	13	241.0	24.1	10.0	235	168 - 314

GGT (IU/L)

Specimen CH-6							Specimen CH-7					
<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	68	42.8	10.3	24.0	39	22 - 64	67	127.6	26.0	20.3	117	75 - 180
All Roche Integra/c111/c301/c501 Reagents	12	35.1	1.5	4.3	35	28 - 43	12	111.4	4.0	3.6	112	89 - 134
Siemens Healthcare												
Siemens Dimension	14	54.9	2.4	4.5	55	43 - 66	14	153.2	4.2	2.8	154	122 - 184
Specimen CH-8							Specimen CH-9					
All Method	65	111.8	23.1	20.7	107	65 - 158	65	77.7	17.2	22.1	72	43 - 112
All Roche Integra/c111/c301/c501 Reagents	12	96.3	3.7	3.9	96	77 - 116	12	65.8	2.2	3.3	66	52 - 79
Siemens Healthcare												
Siemens Dimension	14	134.4	3.2	2.4	134	107 - 162	14	94.6	2.7	2.9	94	75 - 114
Specimen CH-10												
All Method	65	112.1	23.2	20.7	106	65 - 159						
All Roche Integra/c111/c301/c501 Reagents	12	95.9	3.5	3.6	96	76 - 116						
Siemens Healthcare												
Siemens Dimension	14	135.5	3.8	2.8	136	108 - 163						

Amylase (IU/L)

Specimen CH-6							Specimen CH-7					
<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	88	34.6	4.5	12.9	36	24 - 45	88	109.9	24.1	22.0	114	76 - 143
All Roche Integra/c111/c301/c501 Reagents	16	35.9	1.1	3.2	36	25 - 47	16	109.5	3.2	3.0	108	76 - 143
Beckman AU												
Beckman AU systems	12	26.8	1.4	5.1	27	18 - 35	12	94.7	4.5	4.8	96	66 - 124
Roche Integra												
Roche Integra	13	35.8	1.1	3.0	36	25 - 47	13	108.7	2.5	2.3	108	76 - 142
Siemens Healthcare												
Siemens Dimension	17	37.4	0.9	2.3	38	26 - 49	17	136.5	2.2	1.6	137	95 - 178
VITROS												
VITROS 250,350,500,700,750,950	10	29.9	0.3	1.1	30	20 - 39	10	61.3	4.4	7.1	61	42 - 80
All Chemistry Instruments	11	30.0	0.1	0.0	30	21 - 39	12	61.6	4.4	7.1	61	43 - 81
Specimen CH-8							Specimen CH-9					
All Method	85	94.4	19.2	20.3	98	66 - 123	86	63.5	13.8	21.7	68	44 - 83
All Roche Integra/c111/c301/c501 Reagents	16	96.0	2.8	2.9	95	67 - 125	16	66.1	2.1	3.2	66	46 - 86
Beckman AU												
Beckman AU systems	12	79.9	3.3	4.1	81	55 - 104	12	52.9	2.2	4.2	53	37 - 69
Roche Integra												
Roche Integra	13	95.3	2.4	2.5	95	66 - 124	13	65.5	1.9	2.8	65	45 - 86
Siemens Healthcare												
Siemens Dimension	17	114.5	1.8	1.6	114	80 - 149	17	76.3	1.3	1.7	76	53 - 100
VITROS												
VITROS 250,350,500,700,750,950	10	56.8	4.3	7.6	59	39 - 74	10	35.4	5.1	14.3	33	24 - 47
All Chemistry Instruments	12	56.6	3.9	7.0	57	39 - 74	12	35.4	4.6	12.9	34	24 - 47
Specimen CH-10												
All Method	86	94.6	15.2	16.1	98	66 - 123						
All Roche Integra/c111/c301/c501 Reagents	16	96.6	3.1	3.2	97	67 - 126						
Beckman AU												
Beckman AU systems	12	77.0	3.0	4.0	78	53 - 101						
Roche Integra												
Roche Integra	13	95.7	2.4	2.5	95	66 - 125						
Siemens Healthcare												
Siemens Dimension	17	109.3	1.6	1.4	109	76 - 143						
VITROS												
VITROS 250,350,500,700,750,950	10	68.1	5.5	8.1	68	47 - 89						
All Chemistry Instruments	12	68.1	5.0	7.3	68	47 - 89						

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	75	126.2	13.9	11.0	130	100 - 152	74	544.3	63.7	11.7	575	435 - 654
All Alfa Wassermann Reagents	9	101.9	6.0	5.9	103	81 - 123	9	420.8	19.6	4.7	419	336 - 505
All Horiba Pentra Reagents	8	137.4	9.6	7.0	138	109 - 165	7	581.0	24.1	4.2	576	464 - 698
All Roche Integra/c111/c301/c501 Reagents	16	137.0	3.2	2.3	137	109 - 165	16	592.0	19.5	3.3	588	473 - 711
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	9	101.9	6.0	5.9	103	81 - 123	9	420.8	19.6	4.7	419	336 - 505
Beckman AU												
Beckman AU systems	12	114.9	4.9	4.3	116	91 - 138	12	502.5	15.9	3.2	506	402 - 603
Horiba ABX Pentra												
Horiba ABX Pentra 400	7	139.1	8.9	6.4	138	111 - 167	6	581.5	26.4	4.5	574	465 - 698
Roche cobas c 501												
Roche cobas 6000 / c 501	5	136.0	4.1	3.0	136	108 - 164	5	590.4	14.3	2.4	591	472 - 709
Roche Integra												
Roche Integra	10	137.8	2.7	1.9	138	110 - 166	10	593.3	23.2	3.9	587	474 - 712
Siemens Healthcare												
Siemens Dimension	5	128.0	1.6	1.2	128	102 - 154	5	572.8	14.5	2.5	578	458 - 688
Siemens Healthcare LDI												
Siemens Dimension	8	129.6	5.4	4.2	128	103 - 156	8	584.6	14.6	2.5	585	467 - 702
VITROS												
VITROS 250,350,500,700,750,950	9	444.1	9.3	2.1	448	355 - 533	9	2053.7	59.6	2.9	2090	1642 - 2465
All Chemistry Instruments	12	441.4	9.8	2.2	441	353 - 530	12	2053.4	56.6	2.8	2076	1642 - 2465
<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	428.3	48.0	11.2	454	342 - 515	75	279.9	30.7	11.0	295	223 - 336
All Alfa Wassermann Reagents	9	334.6	14.4	4.3	332	267 - 402	9	221.8	10.8	4.9	223	177 - 267
All Horiba Pentra Reagents	7	459.7	19.7	4.3	459	367 - 552	8	306.4	13.5	4.4	303	245 - 368
All Roche Integra/c111/c301/c501 Reagents	16	462.2	7.9	1.7	462	369 - 555	16	301.6	6.0	2.0	301	241 - 362
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	9	334.6	14.4	4.3	332	267 - 402	9	221.8	10.8	4.9	223	177 - 267
Beckman AU												
Beckman AU systems	12	394.6	13.5	3.4	397	315 - 474	12	256.7	8.6	3.3	259	205 - 309
Horiba ABX Pentra												
Horiba ABX Pentra 400	6	459.5	21.5	4.7	454	367 - 552	7	307.3	14.3	4.7	306	245 - 369
Roche cobas c 501												
Roche cobas 6000 / c 501	5	464.8	8.2	1.8	462	371 - 558	5	301.8	9.2	3.0	296	241 - 363
Roche Integra												
Roche Integra	10	461.0	8.4	1.8	461	368 - 554	10	301.5	4.7	1.6	302	241 - 362
Siemens Healthcare												
Siemens Dimension	5	451.4	9.6	2.1	454	361 - 542	5	287.0	8.4	2.9	289	229 - 345
Siemens Healthcare LDI												
Siemens Dimension	8	461.0	14.9	3.2	461	368 - 554	8	292.9	6.3	2.2	293	234 - 352
VITROS												
VITROS 250,350,500,700,750,950	9	1508.8	44.1	2.9	1505	1207 - 1811	8	961.5	12.4	1.3	961	769 - 1154
All Chemistry Instruments	12	1508.4	40.7	2.7	1510	1206 - 1811	11	958.2	16.7	1.7	963	766 - 1150

Lactate Dehydrogenase (IU/L)

Specimen CH-10

All Method	74	340.9	38.7	11.4	359	272 - 410
All Alfa Wassermann Reagents	9	264.8	11.0	4.2	262	211 - 318
All Horiba Pentra Reagents	7	363.1	15.8	4.3	365	290 - 436
All Roche Integra/c111/c301/c501 Reagents	16	367.5	7.6	2.1	368	294 - 441
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	9	264.8	11.0	4.2	262	211 - 318
Beckman AU						
Beckman AU systems	12	313.5	10.1	3.2	315	250 - 377
Horiba ABX Pentra						
Horiba ABX Pentra 400	6	362.8	17.2	4.8	360	290 - 436
Roche cobas c 501						
Roche cobas 6000 / c 501	5	372.2	8.0	2.1	372	297 - 447
Roche Integra						
Roche Integra	10	365.2	7.1	1.9	365	292 - 439
Siemens Healthcare						
Siemens Dimension	5	358.2	5.3	1.5	360	286 - 430
Siemens Healthcare LDI						
Siemens Dimension	8	366.6	9.2	2.5	370	293 - 440
VITROS						
VITROS 250,350,500,700,750,950	8	1123.5	15.8	1.4	1118	898 - 1349
All Chemistry Instruments	11	1121.2	18.6	1.7	1115	896 - 1346

Lipase (IU/L)

Specimen CH-6							Specimen CH-7					
<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	30	35.0	3.1	8.9	38	24 - 46	31	25.7	3.7	14.4	29	18 - 34
All Roche Integra/c111/c301/c501 Reagents	13	36.3	2.4	6.5	36	25 - 48	13	28.4	1.6	5.5	28	19 - 37
Beckman AU												
Beckman AU systems	6	32.0	3.1	9.7	31	22 - 42	6	20.7	2.4	11.7	21	14 - 27
Horiba ABX Pentra												
Horiba ABX Pentra 400	4	-	-	-	32	24 - 46	5	25.0	4.2	16.7	26	17 - 33
Roche Integra												
Roche Integra	11	36.2	1.3	3.5	36	25 - 48	11	28.4	0.7	2.4	28	19 - 37
Siemens Healthcare												
Siemens Dimension	11	139.5	5.7	4.1	141	97 - 182	11	112.6	5.7	5.1	113	78 - 147
VITROS												
VITROS 250,350,500,700,750,950	7	524.3	37.4	7.1	541	367 - 682	7	372.4	29.5	7.9	376	260 - 485
All Chemistry Instruments	9	526.0	33.3	6.3	541	368 - 684	9	370.0	26.3	7.1	370	259 - 481

Specimen CH-8							Specimen CH-9					
All Method	30	43.0	4.6	10.6	47	30 - 56	30	39.7	3.3	8.3	43	27 - 52
All Roche Integra/c111/c301/c501 Reagents	13	45.8	2.9	6.4	45	32 - 60	13	41.1	2.6	6.2	40	28 - 54
Beckman AU												
Beckman AU systems	6	39.7	3.4	8.5	39	27 - 52	6	35.8	3.2	8.9	36	25 - 47
Horiba ABX Pentra												
Horiba ABX Pentra 400	5	38.6	5.3	13.8	39	27 - 51	4	-	-	-	39	27 - 52
Roche Integra												
Roche Integra	11	45.6	2.0	4.4	45	31 - 60	11	40.9	1.6	4.0	40	28 - 54
Siemens Healthcare												
Siemens Dimension	11	175.4	7.9	4.5	175	122 - 228	11	157.5	7.3	4.7	159	110 - 205
VITROS												
VITROS 250,350,500,700,750,950	7	629.6	39.9	6.3	632	440 - 819	7	581.3	36.3	6.2	580	406 - 756
All Chemistry Instruments	9	630.4	35.2	5.6	632	441 - 820	9	581.7	31.9	5.5	580	407 - 757

Specimen CH-10						
All Method	31	80.3	9.0	11.2	87	56 - 105
All Roche Integra/c111/c301/c501 Reagents	13	83.0	5.1	6.2	82	58 - 108
Beckman AU						
Beckman AU systems	6	81.7	4.5	5.5	83	57 - 107
Horiba ABX Pentra						
Horiba ABX Pentra 400	5	70.4	6.9	9.8	70	49 - 92
Roche Integra						
Roche Integra	11	82.9	3.1	3.8	82	58 - 108
Siemens Healthcare						
Siemens Dimension	11	317.0	13.3	4.2	316	221 - 413
VITROS						
VITROS 250,350,500,700,750,950	7	1195.6	36.7	3.1	1183	836 - 1555
All Chemistry Instruments	9	1199.3	33.7	2.8	1196	839 - 1560

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	86.06	5.61	6.5	86.3	69.2 - 102.9	5	112.16	5.28	4.7	110.9	96.3 - 128.0
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	156.76	8.68	5.5	157.7	130.7 - 182.8	5	120.66	7.66	6.4	122.6	97.6 - 143.7
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	277.62	16.28	5.9	277.5	228.7 - 326.5						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	12.13	0.99	8.1	11.9	9.0 - 15.2	16	11.85	1.07	9.0	11.7	8.8 - 14.9
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	17.06	1.19	7.0	17.0	12.7 - 21.4	16	14.03	1.14	8.1	14.2	10.5 - 17.6
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	29.32	2.31	7.9	29.0	21.9 - 36.7						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	50.95	5.76	11.3	50.3	33.6 - 68.3	21	47.94	4.78	10.0	47.8	33.5 - 62.3
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	48.06	5.52	11.5	47.1	31.4 - 64.7	21	48.48	5.21	10.7	47.8	32.8 - 64.1
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	45.88	3.12	6.8	45.1	36.5 - 55.3						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	1.18	0.17	14.4	1.3	0.6 - 1.7	39	1.02	0.16	15.8	1.1	0.5 - 1.5
All TOSOH Instruments	10	3.82	0.46	12.0	3.7	2.4 - 5.2	10	3.51	0.35	10.0	3.6	2.4 - 4.6
Beckman ACCESS / 2 / Dxl	17	1.27	0.08	6.7	1.3	1.0 - 1.6	17	1.07	0.08	7.2	1.1	0.8 - 1.4
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	1.34	0.23	17.0	1.5	0.6 - 2.1	38	1.28	0.19	15.1	1.4	0.7 - 1.9
All TOSOH Instruments	10	4.23	0.38	8.9	4.3	3.0 - 5.4	10	3.98	0.44	11.0	4.0	2.6 - 5.3
Beckman ACCESS / 2 / Dxl	17	1.49	0.14	9.2	1.5	1.0 - 1.9	16	1.37	0.08	5.8	1.4	1.1 - 1.7
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	39	2.08	0.42	20.4	2.3	0.8 - 3.4						
All TOSOH Instruments	10	5.86	0.35	6.0	5.8	4.7 - 7.0						
Beckman ACCESS / 2 / Dxl	17	2.39	0.21	8.7	2.4	1.7 - 3.1						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	3.71	0.51	13.8	3.9	2.1 - 5.3	31	3.30	0.47	14.2	3.4	1.8 - 4.8
All TOSOH Instruments	12	6.63	0.31	4.7	6.7	5.6 - 7.6	12	5.53	0.25	4.4	5.6	4.7 - 6.3
Beckman ACCESS / 2 / Dxl	13	3.71	0.18	4.9	3.6	3.1 - 4.3	13	3.36	0.21	6.4	3.3	2.7 - 4.1
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	4.25	0.67	15.7	4.3	2.2 - 6.3	31	4.06	0.62	15.3	4.2	2.2 - 6.0
All TOSOH Instruments	12	7.42	0.53	7.2	7.6	5.8 - 9.1	12	7.17	0.36	5.0	7.3	6.0 - 8.3
Beckman ACCESS / 2 / Dxl	13	4.17	0.18	4.2	4.1	3.6 - 4.7	13	3.99	0.25	6.3	4.0	3.2 - 4.8
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	5.94	0.97	16.2	6.0	3.0 - 8.9						
All TOSOH Instruments	12	11.34	0.89	7.9	11.5	8.6 - 14.1						
Beckman ACCESS / 2 / Dxl	13	5.50	0.28	5.1	5.5	4.6 - 6.4						

Thyroxine (µg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	5.56	0.81	14.6	5.8	4.4 - 6.7	28	5.38	0.51	9.4	5.4	4.3 - 6.5
All TOSOH Instruments	11	5.58	0.98	17.6	5.7	4.4 - 6.7	11	5.55	0.44	8.0	5.4	4.4 - 6.7
Beckman ACCESS / 2 / Dxl	11	7.00	0.69	9.9	7.1	5.6 - 8.4	11	6.63	0.58	8.7	6.5	5.3 - 8.0
Siemens Dimension	10	5.53	0.32	5.8	5.4	4.4 - 6.7	10	5.28	0.34	6.5	5.3	4.2 - 6.4
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	7.13	0.71	9.9	7.3	5.7 - 8.6	29	6.45	0.62	9.6	6.7	5.1 - 7.8
All TOSOH Instruments	11	7.34	0.83	11.3	7.3	5.8 - 8.9	11	6.72	0.60	8.9	6.6	5.3 - 8.1
Beckman ACCESS / 2 / Dxl	11	8.63	0.97	11.3	8.9	6.9 - 10.4	11	7.85	0.86	11.0	8.1	6.2 - 9.5
Siemens Dimension	10	7.22	0.32	4.4	7.2	5.7 - 8.7	10	6.36	0.37	5.8	6.2	5.0 - 7.7
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	29	11.43	1.01	8.9	11.6	9.1 - 13.8						
All TOSOH Instruments	11	11.61	0.72	6.2	11.4	9.2 - 14.0						
Beckman ACCESS / 2 / Dxl	10	12.72	1.04	8.2	12.7	10.1 - 15.3						
Siemens Dimension	10	11.67	0.59	5.0	11.5	9.3 - 14.1						

Free Thyroxine (ng/dL)

Specimen CH-6							Specimen CH-7					
<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	190	2.18	0.55	25.4	2.1	0.5 - 3.9	191	1.98	0.51	25.7	1.9	0.4 - 3.6
All DPC Immulite Instruments	11	2.52	0.13	5.3	2.5	2.1 - 3.0	11	2.43	0.09	3.7	2.4	2.1 - 2.7
All Roche Elecsys/Cobas Instruments	12	2.42	0.07	3.0	2.4	2.2 - 2.7	12	2.25	0.08	3.5	2.3	2.0 - 2.5
All TOSOH Instruments	40	2.85	0.23	8.1	2.9	2.1 - 3.6	40	2.51	0.23	9.1	2.5	1.8 - 3.2
Abbott Architect	19	1.92	0.09	4.7	1.9	1.6 - 2.2	19	1.87	0.07	4.0	1.9	1.6 - 2.1
Beckman ACCESS / 2 / Dxl	42	1.96	0.10	5.1	2.0	1.6 - 2.3	40	1.68	0.07	4.4	1.7	1.4 - 1.9
bioMerieux Vidas, Mini Vidas	27	1.22	0.10	8.0	1.2	0.9 - 1.6	27	1.14	0.13	11.7	1.2	0.7 - 1.6
Siemens Dimension	28	2.51	0.22	8.8	2.4	1.8 - 3.2	28	2.33	0.24	10.5	2.2	1.5 - 3.1
TOSOH AIA	19	2.86	0.24	8.3	2.9	2.1 - 3.6	19	2.47	0.25	10.2	2.5	1.7 - 3.3
TOSOH ST AIA	21	2.85	0.23	8.1	2.9	2.1 - 3.6	22	2.50	0.27	10.8	2.6	1.6 - 3.4
Specimen CH-8							Specimen CH-9					
All Method	193	2.52	0.64	25.4	2.6	0.6 - 4.5	192	2.37	0.60	25.2	2.4	0.5 - 4.2
All DPC Immulite Instruments	11	2.79	0.16	5.9	2.8	2.2 - 3.3	11	2.65	0.14	5.4	2.7	2.2 - 3.1
All Roche Elecsys/Cobas Instruments	12	2.80	0.07	2.6	2.8	2.5 - 3.1	12	2.61	0.09	3.5	2.6	2.3 - 2.9
All TOSOH Instruments	39	3.20	0.19	6.1	3.2	2.6 - 3.8	40	3.02	0.24	7.8	3.0	2.3 - 3.8
Abbott Architect	20	2.47	0.15	5.9	2.5	2.0 - 3.0	19	2.23	0.13	5.8	2.2	1.8 - 2.7
Beckman ACCESS / 2 / Dxl	42	2.08	0.11	5.5	2.1	1.7 - 2.5	42	2.04	0.10	4.7	2.0	1.7 - 2.4
bioMerieux Vidas, Mini Vidas	27	1.49	0.13	8.7	1.5	1.1 - 1.9	27	1.34	0.09	6.9	1.3	1.0 - 1.7
Siemens Dimension	28	2.98	0.32	10.8	2.9	2.0 - 4.0	28	2.78	0.28	10.1	2.7	1.9 - 3.7
TOSOH AIA	19	3.22	0.18	5.6	3.2	2.6 - 3.8	19	3.03	0.27	8.9	3.0	2.2 - 3.9
TOSOH ST AIA	22	3.10	0.32	10.2	3.1	2.1 - 4.1	21	3.01	0.21	6.9	3.0	2.3 - 3.7
Specimen CH-10												
All Method	193	3.48	0.81	23.2	3.6	1.0 - 6.0						
All DPC Immulite Instruments	11	3.45	0.22	6.3	3.5	2.8 - 4.2						
All Roche Elecsys/Cobas Instruments	12	3.78	0.16	4.2	3.9	3.3 - 4.3						
All TOSOH Instruments	39	4.29	0.24	5.6	4.3	3.5 - 5.1						
Abbott Architect	20	4.03	0.46	11.4	4.0	2.6 - 5.4						
Beckman ACCESS / 2 / Dxl	41	2.79	0.14	5.1	2.8	2.3 - 3.3						
bioMerieux Vidas, Mini Vidas	27	2.29	0.18	7.9	2.3	1.7 - 2.9						
Siemens Dimension	28	4.03	0.24	5.8	4.0	3.3 - 4.8						
TOSOH AIA	19	4.23	0.23	5.4	4.3	3.5 - 5.0						
TOSOH ST AIA	22	4.24	0.40	9.4	4.3	3.0 - 5.5						

TSH (μU/mL)

Specimen CH-6							Specimen CH-7					
<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	262	3.36	0.36	10.6	3.3	2.2 - 4.5	259	2.54	0.25	9.7	2.5	1.8 - 3.3
All Abbott Instruments	22	3.00	0.16	5.3	3.0	2.5 - 3.5	22	2.30	0.13	5.4	2.3	1.9 - 2.7
All DPC Immulite Instruments	11	3.23	0.25	7.9	3.3	2.4 - 4.0	11	2.54	0.19	7.5	2.5	1.9 - 3.2
All Roche Elecsys/Cobas Instruments	14	3.39	0.11	3.2	3.4	3.0 - 3.8	14	2.54	0.10	4.0	2.5	2.2 - 2.9
All TOSOH Instruments	57	3.67	0.24	6.7	3.6	2.9 - 4.5	57	2.80	0.21	7.4	2.8	2.1 - 3.5
Abbott Architect	21	3.00	0.16	5.4	2.9	2.5 - 3.5	21	2.31	0.13	5.5	2.3	1.9 - 2.7
Beckman ACCESS / 2 / Dxl	52	3.16	0.16	5.2	3.2	2.6 - 3.7	51	2.40	0.11	4.4	2.4	2.0 - 2.8
bioMerieux Vidas, Mini Vidas	47	3.67	0.26	7.0	3.6	2.8 - 4.5	46	2.65	0.16	5.9	2.7	2.1 - 3.2
Roche cobas e 411	10	3.39	0.11	3.2	3.4	3.0 - 3.8	10	2.54	0.10	3.8	2.5	2.2 - 2.9
Siemens Dimension	39	3.11	0.22	7.0	3.1	2.4 - 3.8	39	2.41	0.18	7.4	2.4	1.8 - 3.0
TOSOH AIA	25	3.61	0.34	9.3	3.6	2.6 - 4.7	25	2.78	0.26	9.5	2.8	1.9 - 3.6
TOSOH ST AIA	33	3.69	0.20	5.5	3.7	3.0 - 4.3	33	2.78	0.20	7.0	2.8	2.1 - 3.4

Specimen CH-8							Specimen CH-9					
All Method	259	4.62	0.47	10.1	4.6	3.2 - 6.1	260	3.99	0.40	10.0	4.0	2.7 - 5.2
All Abbott Instruments	22	4.18	0.26	6.2	4.2	3.3 - 5.0	22	3.61	0.21	5.7	3.6	2.9 - 4.3
All DPC Immulite Instruments	11	4.64	0.32	7.0	4.6	3.6 - 5.7	11	3.93	0.25	6.2	3.9	3.1 - 4.7
All Roche Elecsys/Cobas Instruments	14	4.50	0.15	3.4	4.5	4.0 - 5.0	14	3.97	0.12	3.0	3.9	3.6 - 4.4
All TOSOH Instruments	56	5.02	0.32	6.4	5.0	4.0 - 6.0	56	4.34	0.27	6.2	4.3	3.5 - 5.2
Abbott Architect	21	4.18	0.27	6.4	4.2	3.3 - 5.0	21	3.61	0.21	5.8	3.5	2.9 - 4.3
Beckman ACCESS / 2 / Dxl	52	4.33	0.21	4.8	4.3	3.7 - 5.0	52	3.72	0.23	6.2	3.7	3.0 - 4.5
bioMerieux Vidas, Mini Vidas	46	5.02	0.31	6.1	4.9	4.0 - 6.0	47	4.31	0.25	5.8	4.3	3.5 - 5.1
Roche cobas e 411	10	4.49	0.14	3.1	4.5	4.0 - 5.0	10	3.97	0.11	2.7	3.9	3.6 - 4.3
Siemens Dimension	39	4.32	0.30	7.0	4.3	3.4 - 5.3	39	3.71	0.26	7.1	3.7	2.9 - 4.5
TOSOH AIA	25	5.02	0.46	9.2	5.1	3.6 - 6.5	25	4.32	0.41	9.5	4.2	3.0 - 5.6
TOSOH ST AIA	33	5.02	0.33	6.5	5.0	4.0 - 6.0	33	4.37	0.24	5.5	4.3	3.6 - 5.1

Specimen CH-10						
All Method	260	9.12	0.93	10.2	9.2	6.3 - 12.0
All Abbott Instruments	22	8.37	0.35	4.1	8.4	7.3 - 9.5
All DPC Immulite Instruments	11	8.93	0.61	6.8	8.9	7.1 - 10.8
All Roche Elecsys/Cobas Instruments	14	8.41	0.35	4.1	8.3	7.3 - 9.5
All TOSOH Instruments	57	9.72	0.68	7.0	9.8	7.6 - 11.8
Abbott Architect	21	8.37	0.36	4.2	8.3	7.3 - 9.5
Beckman ACCESS / 2 / Dxl	51	8.33	0.60	7.2	8.2	6.5 - 10.2
bioMerieux Vidas, Mini Vidas	45	9.84	0.44	4.5	9.8	8.5 - 11.2
Roche cobas e 411	10	8.34	0.30	3.6	8.3	7.4 - 9.3
Siemens Dimension	38	9.02	0.73	8.1	9.0	6.8 - 11.3
TOSOH AIA	25	9.78	0.88	9.0	9.6	7.1 - 12.5
TOSOH ST AIA	33	9.74	0.63	6.5	9.8	7.8 - 11.7

Serum hCG – Qualitative

	Specimen HCG-6		Specimen HCG-7	
<u>Method</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	143	1	142
AimStep Combo Pregnancy	-	3	-	3
Alere Clearview hCG Combo II	-	5	-	5
Beckman Coulter ICON 25 hCG	-	5	-	5
bioMerieux Vidas, Mini Vidas	-	1	-	1
Cardinal Health SP Brand combo	-	6	-	6
CONSULT diagnostics hCG Combo	-	11	-	11
Henry Schein One Step + Combo	-	6	-	6
McKesson hCG Combo Cassette	-	3	-	3
NDC Pro Advantage	-	1	-	1
Polymedco Poly stat hCG	-	2	-	2
PSS Select hCG Combo	-	2	-	2
Quidel QuickVue + One-Step	-	10	-	10
Quidel QuickVue One-Step Combo	-	72	1	71
Sekisui OSOM hCG Combo Test	-	4	-	4
Stanbio QUPID Plus	-	3	-	3
Sure-Vue hCG	-	1	-	1
Sure-Vue hCG-STAT	-	2	-	2

	Specimen HCG-8		Specimen HCG-9	
ALL METHODS	142	1	143	-
AimStep Combo Pregnancy	3	-	3	-
Alere Clearview hCG Combo II	5	-	5	-
Beckman Coulter ICON 25 hCG	5	-	5	-
bioMerieux Vidas, Mini Vidas	1	-	1	-
Cardinal Health SP Brand combo	6	-	6	-
CONSULT diagnostics hCG Combo	11	-	11	-
Henry Schein One Step + Combo	6	-	6	-
McKesson hCG Combo Cassette	3	-	3	-
NDC Pro Advantage	1	-	1	-
Polymedco Poly stat hCG	2	-	2	-
PSS Select hCG Combo	2	-	2	-
Quidel QuickVue + One-Step	10	-	10	-
Quidel QuickVue One-Step Combo	71	1	72	-
Sekisui OSOM hCG Combo Test	4	-	4	-
Stanbio QUPID Plus	3	-	3	-
Sure-Vue hCG	1	-	1	-
Sure-Vue hCG-STAT	2	-	2	-

Serum hCG – Qualitative

Specimen HCG-10

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	142	1
AimStep Combo Pregnancy	3	-
Alere Clearview hCG Combo II	5	-
Beckman Coulter ICON 25 hCG	5	-
bioMerieux Vidas, Mini Vidas	1	-
Cardinal Health SP Brand combo	6	-
CONSULT diagnostics hCG Combo	11	-
Henry Schein One Step + Combo	6	-
McKesson hCG Combo Cassette	3	-
NDC Pro Advantage	1	-
Polymedco Poly stat hCG	2	-
PSS Select hCG Combo	2	-
Quidel QuickVue + One-Step	10	-
Quidel QuickVue One-Step Combo	71	1
Sekisui OSOM hCG Combo Test	4	-
Stanbio QUPID Plus	3	-
Sure-View hCG	1	-
Sure-View hCG-STAT	2	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-6						Specimen HCG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.2	0.7	64.3	1	0 - 4	26	1.3	0.9	72.4	1	0 - 5
<u>Method</u>	Specimen HCG-8						Specimen HCG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	198.3	56.9	28.7	212	27 - 370	23	1026.8	253.9	24.7	1090	264 - 1789
<u>Method</u>	Specimen HCG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	24	375.1	116.9	31.2	394	24 - 726						

Cholesterol, Total (mg/dL)

Specimen CH-6							Specimen CH-7					
<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	297	137.0	5.8	4.3	137	123 - 151	300	160.2	6.3	4.0	159	144 - 177
All Alfa Wassermann Reagents	42	138.6	3.2	2.3	138	124 - 153	42	159.5	3.9	2.4	160	143 - 176
All Horiba Pentra Reagents	17	138.1	4.2	3.0	138	124 - 152	17	161.3	4.9	3.0	162	145 - 178
All Roche Integra/c111/c301/c501 Reagents	31	139.0	4.5	3.3	139	125 - 153	31	161.9	5.3	3.3	161	145 - 179
All Vital Diagnostics Reagents	24	139.3	6.4	4.6	140	125 - 154	24	162.9	7.3	4.5	162	146 - 180
Alere Cholestech LDX												
Alere Cholestech LDX - waived	44	138.6	6.7	4.8	140	124 - 153	44	163.3	7.8	4.8	164	147 - 180
All Chemistry Instruments	49	137.7	7.0	5.1	138	123 - 152	49	162.3	8.0	4.9	163	146 - 179
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	41	138.6	3.2	2.3	138	124 - 153	41	159.5	3.9	2.5	160	143 - 176
Beckman AU												
Beckman AU systems	24	135.6	3.9	2.9	136	122 - 150	23	156.7	2.6	1.7	156	141 - 173
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	138.3	4.2	3.0	138	124 - 153	16	161.6	4.9	3.0	162	145 - 178
Roche Integra												
Roche Integra	22	137.9	4.2	3.0	138	124 - 152	21	159.5	3.4	2.1	160	143 - 176
Siemens Healthcare												
Siemens Dimension	46	135.5	3.9	2.9	136	121 - 150	46	155.3	4.4	2.8	156	139 - 171
Vital Diagnostics												
Vital Diagnostics Envoy 500	21	139.1	6.7	4.8	140	125 - 154	21	163.4	7.6	4.7	162	147 - 180
All Chemistry Instruments	23	139.1	6.4	4.6	140	125 - 153	23	163.2	7.3	4.5	162	146 - 180
VITROS												
VITROS 250,350,500,700,750,950	23	128.1	3.5	2.7	129	115 - 141	23	156.9	3.8	2.4	158	141 - 173
All Chemistry Instruments	28	128.1	3.3	2.6	129	115 - 141	28	157.1	3.6	2.3	158	141 - 173

Cholesterol, Total (mg/dL)

Specimen CH-8							Specimen CH-9					
<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	257	173.7	5.6	3.2	173	156 - 192	256	155.1	5.3	3.4	155	139 - 171
All Alfa Wassermann Reagents	42	173.8	3.2	1.9	174	156 - 192	42	156.2	3.1	2.0	157	140 - 172
All Horiba Pentra Reagents	17	174.4	4.6	2.6	175	156 - 192	17	156.4	4.0	2.6	157	140 - 172
All Roche Integra/c111/c301/c501 Reagents	31	175.4	4.8	2.8	176	157 - 193	31	156.9	5.1	3.3	156	141 - 173
All Vital Diagnostics Reagents	24	177.3	8.2	4.6	177	159 - 195	24	159.3	7.6	4.8	158	143 - 176
Alere Cholestech LDX												
Alere Cholestech LDX - waived	14	175.4	8.9	5.1	176	157 - 193	14	157.5	9.9	6.3	155	141 - 174
All Chemistry Instruments	15	174.9	8.8	5.0	175	157 - 193	15	156.9	9.8	6.3	153	141 - 173
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	41	173.7	3.2	1.9	174	156 - 192	41	156.2	3.1	2.0	157	140 - 172
Beckman AU												
Beckman AU systems	23	170.7	3.4	2.0	171	153 - 188	23	152.9	3.1	2.0	153	137 - 169
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	174.8	4.5	2.6	175	157 - 193	16	156.6	4.0	2.5	158	140 - 173
Roche Integra												
Roche Integra	22	174.0	4.2	2.4	174	156 - 192	22	155.2	4.2	2.7	155	139 - 171
Siemens Healthcare												
Siemens Dimension	46	169.9	4.7	2.8	171	152 - 187	46	152.2	4.3	2.8	153	136 - 168
Vital Diagnostics												
Vital Diagnostics Envoy 500	21	177.3	8.8	5.0	177	159 - 196	21	158.8	7.8	4.9	157	142 - 175
All Chemistry Instruments	23	177.1	8.4	4.7	177	159 - 195	23	158.9	7.5	4.7	157	142 - 175
VITROS												
VITROS 250,350,500,700,750,950	23	172.4	5.2	3.0	172	155 - 190	23	150.1	4.1	2.7	149	135 - 166
All Chemistry Instruments	28	172.7	5.0	2.9	172	155 - 190	28	150.1	3.8	2.5	150	135 - 166

Cholesterol, Total (mg/dL)

Specimen CH-10

<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	219.3	7.6	3.5	219	197 - 242
All Alfa Wassermann Reagents	42	218.0	4.0	1.8	219	196 - 240
All Horiba Pentra Reagents	17	219.4	6.0	2.8	219	197 - 242
All Roche Integra/c111/c301/c501 Reagents	31	220.1	6.9	3.2	219	198 - 243
All Vital Diagnostics Reagents	24	224.6	8.8	3.9	225	202 - 248
Alere Cholestech LDX						
Alere Cholestech LDX - waived	14	233.2	12.1	5.2	235	209 - 257
All Chemistry Instruments	15	232.4	12.0	5.2	234	209 - 256
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	41	218.0	4.1	1.9	219	196 - 240
Beckman AU						
Beckman AU systems	23	215.1	3.7	1.7	216	193 - 237
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	219.6	6.2	2.8	219	197 - 242
Roche Integra						
Roche Integra	22	217.4	5.6	2.6	217	195 - 240
Siemens Healthcare						
Siemens Dimension	46	214.5	5.6	2.6	215	193 - 236
Vital Diagnostics						
Vital Diagnostics Envoy 500	21	224.6	9.4	4.2	224	202 - 248
All Chemistry Instruments	23	224.5	9.0	4.0	224	202 - 247
VITROS						
VITROS 250,350,500,700,750,950	23	218.1	7.8	3.6	218	196 - 240
All Chemistry Instruments	28	219.1	7.7	3.5	220	197 - 242

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-6							Specimen CH-7					
<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	211	39.1	12.7	32.4	36	13 - 65	208	51.4	15.2	29.5	49	21 - 82
Calculated-Trig/5												
Alere Cholestech LDX - waived	34	30.0	7.8	25.9	30	14 - 46	31	50.5	8.9	17.6	51	32 - 69
Alfa Wassermann ACE Alera/Axcel	27	52.8	5.0	9.5	53	36 - 69	26	67.4	5.1	7.6	68	47 - 88
Beckman AU systems	15	47.5	7.1	14.9	48	33 - 62	15	59.0	8.6	14.5	58	41 - 77
Horiba ABX Pentra 400	11	55.5	5.3	9.5	54	38 - 73	11	70.5	6.1	8.7	70	49 - 92
Roche Integra	16	27.4	5.0	18.2	27	17 - 38	16	36.6	5.1	14.1	36	25 - 48
Siemens Dimension	24	28.6	5.2	18.1	29	18 - 39	24	33.6	5.7	16.9	36	22 - 45
Vital Diagnostics Envoy 500	15	41.4	10.2	24.7	39	20 - 62	15	53.5	12.9	24.2	52	27 - 80
VITROS 250,350,500,700,750,950	17	32.9	4.3	13.2	33	23 - 43	17	40.6	5.2	12.9	42	28 - 53
All Chemistry Instruments	198	38.9	12.8	33.0	36	13 - 65	195	51.5	15.3	29.6	49	20 - 83
Specimen CH-8							Specimen CH-9					
All Method	177	57.3	14.4	25.1	54	28 - 87	182	48.4	13.8	28.5	46	20 - 76
Calculated-Trig/5												
Alere Cholestech LDX - waived	5	-	-	-	54	28 - 87	9	-	-	-	35	20 - 77
Alfa Wassermann ACE Alera/Axcel	27	71.7	4.3	6.0	72	50 - 94	27	61.5	5.0	8.2	62	43 - 80
Beckman AU systems	15	61.7	8.9	14.5	60	43 - 81	15	54.9	9.2	16.8	54	36 - 74
Horiba ABX Pentra 400	11	73.2	5.8	7.9	75	51 - 96	11	63.1	5.1	8.1	64	44 - 83
Roche Integra	16	45.3	5.7	12.5	46	31 - 59	16	35.7	4.5	12.5	35	24 - 47
Siemens Dimension	24	42.4	6.4	15.2	43	29 - 56	24	34.2	5.3	15.5	36	23 - 45
Vital Diagnostics Envoy 500	15	56.9	13.2	23.1	56	30 - 84	15	49.0	12.3	25.0	49	24 - 74
VITROS 250,350,500,700,750,950	17	47.6	5.7	11.9	50	33 - 62	17	40.1	5.1	12.7	39	28 - 53
All Chemistry Instruments	164	57.4	14.5	25.3	54	28 - 87	169	48.5	13.8	28.5	46	20 - 77
Specimen CH-10												
All Method	168	76.0	14.0	18.5	76	47 - 105						
Calculated-Trig/5												
Cholestech LDX - waived	1	-	-	-	87	47 - 104						
Alfa Wassermann ACE Alera/Axcel	27	88.5	4.5	5.1	89	61 - 116						
Beckman AU systems	15	75.5	11.5	15.2	77	52 - 99						
Roche Integra	11	86.7	7.3	8.4	86	60 - 113						
Siemens Dimension	16	72.9	6.9	9.5	72	51 - 95						
Vital Diagnostics Envoy 500	24	68.2	8.4	12.3	70	47 - 89						
VITROS 250,350,500,700,750,950	15	70.3	14.0	20.0	72	42 - 99						
All Chemistry Instruments	17	60.1	9.0	15.0	60	42 - 79						

LDL Cholesterol - Direct (mg/dL)

Specimen CH-6							Specimen CH-7					
<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	91	40.5	10.4	25.6	41	19 - 62	90	45.4	13.4	29.5	45	18 - 73
Beckman AU Direct HDL / LDL												
Beckman AU systems	11	30.0	2.8	9.4	29	21 - 39	11	31.9	2.9	9.1	31	22 - 42
Roche LDL Direct												
All Chemistry Instruments	11	60.5	5.2	8.6	61	42 - 79	11	72.5	6.8	9.4	73	50 - 95
Siemens Automated LDL												
Siemens Dimension	22	44.0	3.0	6.9	44	30 - 58	22	48.1	3.8	7.8	49	33 - 63
Specimen CH-8							Specimen CH-9					
All Method	90	52.6	13.1	25.0	52	26 - 79	90	46.6	11.7	25.2	47	23 - 71
Beckman AU Direct HDL / LDL												
Beckman AU systems	11	38.5	2.8	7.2	38	26 - 50	11	34.1	2.8	8.2	33	23 - 45
Roche LDL Direct												
All Chemistry Instruments	11	78.8	6.7	8.5	79	55 - 103	11	69.3	6.4	9.2	70	48 - 91
Siemens Automated LDL												
Siemens Dimension	22	56.1	4.1	7.3	57	39 - 73	22	50.1	3.8	7.6	49	35 - 66
Specimen CH-10												
All Method	88	73.2	14.7	20.1	73	43 - 103						
Beckman AU Direct HDL / LDL												
Beckman AU systems	11	56.7	3.3	5.9	55	39 - 74						
Roche LDL Direct												
All Chemistry Instruments	11	101.5	7.1	7.0	102	71 - 132						
Siemens Automated LDL												
Siemens Dimension	22	77.3	4.8	6.2	77	54 - 101						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	285	69.4	11.4	16.5	68	48 - 91	284	85.2	13.0	15.3	88	59 - 111
All Dex-Sulfate 50,000 MW Methods	61	75.6	9.7	12.9	77	52 - 99	60	88.4	8.9	10.1	90	61 - 115
All Direct Methods	159	67.6	11.7	17.3	65	47 - 88	159	83.8	14.5	17.3	83	58 - 109
All Phosphotungstic Acid Methods	18	70.3	9.7	13.8	73	49 - 92	18	84.7	12.7	15.0	87	59 - 111
Alere Cholestech LDX												
Alere Cholestech LDX - waived	39	79.5	5.9	7.4	79	55 - 104	38	90.3	4.9	5.4	90	63 - 118
All Chemistry Instruments	45	79.9	5.8	7.2	80	55 - 104	44	90.6	5.0	5.5	91	63 - 118
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	27	57.1	3.0	5.3	57	39 - 75	27	68.7	3.9	5.7	69	48 - 90
Beckman AU Direct HDL / LDL												
Beckman AU systems	17	60.7	4.7	7.8	61	42 - 79	17	75.9	5.6	7.4	78	53 - 99
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	55.5	4.1	7.5	57	38 - 73	13	67.8	4.9	7.2	68	47 - 89
Roche HDL Direct												
Roche Integra	14	81.6	2.9	3.6	81	57 - 107	14	99.9	3.1	3.1	99	69 - 130
All Chemistry Instruments	21	81.1	2.6	3.2	80	56 - 106	21	99.6	3.0	3.0	99	69 - 130
Siemens Automated HDL												
Siemens Dimension	38	79.3	3.9	4.9	79	55 - 104	38	97.7	4.5	4.6	98	68 - 127
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	67.1	7.7	11.5	66	48 - 91	10	80.7	9.4	11.7	79	59 - 111
All Chemistry Instruments	12	65.4	8.1	12.4	64	45 - 86	12	78.5	11.1	14.1	79	54 - 103
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	11	64.7	8.1	12.6	68	45 - 85	11	81.5	10.1	12.4	85	57 - 106
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	18	65.3	2.2	3.4	65	45 - 85	18	90.2	3.9	4.3	90	63 - 118
All Chemistry Instruments	21	65.1	2.2	3.4	65	45 - 85	21	90.0	3.8	4.2	90	62 - 117

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	86.2	12.0	13.9	89	60 - 113	252	77.3	11.5	14.9	77	54 - 101
All Dex-Sulfate 50,000 MW Methods	30	90.4	11.7	12.9	94	63 - 118	30	80.7	11.7	14.5	82	56 - 105
All Direct Methods	158	85.3	12.6	14.7	86	59 - 111	159	76.7	12.1	15.8	75	53 - 100
All Phosphotungstic Acid Methods	18	86.1	10.8	12.6	89	60 - 112	18	78.7	9.9	12.6	80	55 - 103
Alere Cholestech LDX												
Alere Cholestech LDX - waived	13	96.8	5.7	5.9	100	67 - 126	13	88.2	8.6	9.8	88	61 - 115
All Chemistry Instruments	14	97.0	5.6	5.8	100	67 - 127	14	88.4	8.3	9.4	88	61 - 115
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	27	72.7	4.0	5.5	73	50 - 95	27	64.9	3.7	5.7	66	45 - 85
Beckman AU Direct HDL / LDL												
Beckman AU systems	17	79.4	5.0	6.3	80	55 - 104	17	70.5	5.8	8.3	71	49 - 92
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	72.2	5.3	7.4	74	50 - 94	13	64.5	4.8	7.4	64	45 - 84
Roche HDL Direct												
Roche Integra	14	98.4	4.0	4.1	98	68 - 128	14	89.8	3.3	3.7	89	62 - 117
All Chemistry Instruments	20	98.0	3.6	3.7	97	68 - 128	21	89.2	3.2	3.5	89	62 - 117
Siemens Automated HDL												
Siemens Dimension	38	96.5	4.4	4.6	96	67 - 126	38	88.3	3.5	4.0	88	61 - 115
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	84.2	9.0	10.7	84	60 - 113	10	75.7	9.2	12.2	76	54 - 101
All Chemistry Instruments	12	81.8	10.8	13.2	82	57 - 107	12	74.2	9.1	12.2	74	51 - 97
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	11	84.5	10.5	12.4	90	59 - 110	11	76.0	10.0	13.1	79	53 - 99
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	18	91.6	3.8	4.1	92	64 - 120	18	78.7	3.7	4.7	80	55 - 103
All Chemistry Instruments	21	91.2	3.7	4.1	91	63 - 119	21	78.2	3.9	5.0	79	54 - 102

Cholesterol, HDL (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	247	96.9	9.9	10.2	98	67 - 126
All Dex-Sulfate 50,000 MW Methods	29	101.1	11.4	11.2	100	70 - 132
All Direct Methods	157	95.2	9.6	10.0	96	66 - 124
All Phosphotungstic Acid Methods	18	99.3	9.4	9.4	100	69 - 130
Alere Cholestech LDX						
Alere Cholestech LDX - waived	11	100.0	0.1	0.0	100	70 - 130
All Chemistry Instruments	12	100.0	0.1	0.0	100	70 - 130
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	27	85.4	4.6	5.4	86	59 - 111
Beckman AU Direct HDL / LDL						
Beckman AU systems	17	95.5	5.5	5.8	96	66 - 125
Horiba ABX Pentra						
Horiba ABX Pentra 400	13	87.5	6.4	7.3	87	61 - 114
Roche HDL Direct						
Roche Integra	14	100.0	4.4	4.4	98	70 - 130
All Chemistry Instruments	21	99.5	4.3	4.3	98	69 - 130
Siemens Automated HDL						
Siemens Dimension	38	99.8	4.6	4.6	100	69 - 130
Vital Diagnostics						
Vital Diagnostics Envoy 500	10	101.3	10.8	10.7	101	67 - 126
All Chemistry Instruments	12	99.3	11.6	11.6	99	69 - 130
Vital Diagnostics Direct						
Vital Diagnostics Envoy 500	11	103.0	12.5	12.1	110	72 - 134
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	18	106.7	4.6	4.3	107	74 - 139
All Chemistry Instruments	20	106.5	4.4	4.1	106	74 - 139

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	142.6	5.9	4.1	143	106 - 179	281	119.1	5.6	4.7	119	89 - 149
All Alfa Wassermann Reagents	41	144.7	4.5	3.1	144	108 - 181	42	117.0	4.4	3.8	118	87 - 147
All Horiba Pentra Reagents	17	142.2	3.9	2.7	143	106 - 178	17	118.9	3.8	3.2	118	89 - 149
All Roche Integra/c111/c301/c501 Reagents	31	144.8	5.0	3.5	144	108 - 182	30	118.6	4.7	4.0	118	88 - 149
All Vital Diagnostics Reagents	24	141.7	6.6	4.7	141	106 - 178	24	121.0	7.3	6.0	120	90 - 152
Alere Cholestech LDX												
Alere Cholestech LDX - waived	40	143.0	5.8	4.1	144	107 - 179	40	117.4	4.7	4.0	118	88 - 147
All Chemistry Instruments	45	142.1	6.2	4.4	143	106 - 178	44	116.8	4.9	4.2	117	87 - 146
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	40	144.6	4.6	3.2	144	108 - 181	41	117.0	4.4	3.8	118	87 - 147
Beckman AU												
Beckman AU systems	24	143.4	6.6	4.6	145	107 - 180	24	120.9	5.3	4.4	122	90 - 152
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	142.1	4.0	2.8	142	106 - 178	16	119.1	3.9	3.2	119	89 - 149
Roche Integra												
Roche Integra	22	144.0	5.0	3.5	144	108 - 180	21	117.2	3.7	3.2	117	87 - 147
Siemens Healthcare												
Siemens Dimension	45	138.1	2.9	2.1	138	103 - 173	43	118.0	1.9	1.6	118	88 - 148
Vital Diagnostics												
Vital Diagnostics Envoy 500	21	142.1	6.7	4.7	140	106 - 178	21	120.7	6.0	4.9	120	90 - 151
All Chemistry Instruments	23	141.7	6.7	4.8	140	106 - 178	23	121.2	7.4	6.1	120	90 - 152
VITROS												
VITROS 250,350,500,700,750,950	23	149.2	9.5	6.4	147	111 - 187	23	128.3	7.5	5.8	126	96 - 161
All Chemistry Instruments	28	147.9	9.3	6.3	146	110 - 185	28	127.1	7.4	5.8	126	95 - 159

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	250	154.1	7.0	4.5	154	115 - 193	250	148.2	6.1	4.1	148	111 - 186
All Alfa Wassermann Reagents	42	150.5	6.2	4.1	152	112 - 189	41	147.8	5.7	3.9	148	110 - 185
All Horiba Pentra Reagents	17	151.8	4.6	3.0	153	113 - 190	17	147.6	3.8	2.6	148	110 - 185
All Roche Integra/c111/c301/c501 Reagents	31	153.5	6.3	4.1	152	115 - 192	31	148.5	6.2	4.2	148	111 - 186
All Vital Diagnostics Reagents	24	154.1	8.9	5.8	155	115 - 193	24	150.0	7.2	4.8	151	112 - 188
Alere Cholestech LDX												
Alere Cholestech LDX - waived	14	154.8	5.7	3.7	154	116 - 194	14	147.1	4.9	3.3	148	110 - 184
All Chemistry Instruments	15	154.3	5.9	3.8	153	115 - 193	15	146.3	5.7	3.9	148	109 - 183
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	41	150.5	6.3	4.2	152	112 - 189	40	147.8	5.8	3.9	148	110 - 185
Beckman AU												
Beckman AU systems	24	155.4	6.3	4.1	157	116 - 195	24	149.4	6.4	4.3	150	112 - 187
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	151.6	4.6	3.1	153	113 - 190	16	147.7	3.9	2.7	148	110 - 185
Roche Integra												
Roche Integra	22	152.1	6.1	4.0	151	114 - 191	21	146.4	4.8	3.3	147	109 - 184
Siemens Healthcare												
Siemens Dimension	46	153.3	3.6	2.3	154	114 - 192	45	145.4	2.4	1.7	145	109 - 182
Vital Diagnostics												
Vital Diagnostics Envoy 500	21	156.4	6.7	4.3	156	117 - 196	21	150.2	7.3	4.9	151	112 - 188
All Chemistry Instruments	23	154.7	8.5	5.5	155	116 - 194	23	150.5	7.0	4.7	151	112 - 189
VITROS												
VITROS 250,350,500,700,750,950	23	167.8	9.6	5.7	166	125 - 210	23	158.2	9.4	5.9	157	118 - 198
All Chemistry Instruments	28	166.4	9.4	5.7	164	124 - 209	28	156.9	9.1	5.8	154	117 - 197

Triglycerides (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	250	229.3	12.1	5.3	228	171 - 287
All Alfa Wassermann Reagents	41	221.0	7.0	3.2	221	165 - 277
All Horiba Pentra Reagents	17	226.1	7.4	3.3	228	169 - 283
All Roche Integra/c111/c301/c501 Reagents	31	224.4	8.0	3.6	223	168 - 281
All Vital Diagnostics Reagents	23	229.1	9.8	4.3	229	171 - 287
Alere Cholestech LDX						
Alere Cholestech LDX - waived	13	239.6	11.1	4.6	239	179 - 300
All Chemistry Instruments	14	238.4	11.6	4.9	239	178 - 298
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	40	221.0	7.1	3.2	221	165 - 277
Beckman AU						
Beckman AU systems	24	230.8	9.9	4.3	234	173 - 289
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	226.1	7.7	3.4	228	169 - 283
Roche Integra						
Roche Integra	22	222.0	7.3	3.3	222	166 - 278
Siemens Healthcare						
Siemens Dimension	46	227.7	3.7	1.6	228	170 - 285
Vital Diagnostics						
Vital Diagnostics Envoy 500	21	229.3	10.2	4.4	229	171 - 287
All Chemistry Instruments	23	229.1	9.8	4.3	229	171 - 287
VITROS						
VITROS 250,350,500,700,750,950	23	256.7	13.5	5.3	256	192 - 321
All Chemistry Instruments	28	255.6	12.8	5.0	255	191 - 320

Acetaminophen (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	41.20	7.88	19.1	44.7	17.5 - 64.9	5	15.55	1.04	6.7	15.6	12.4 - 18.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	40.30	5.06	12.6	41.6	25.1 - 55.5	5	40.33	5.09	12.6	42.7	25.0 - 55.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	92.55	8.44	9.1	93.7	67.2 - 117.9						

Carbamazepine (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	6	4.47	0.34	7.7	4.6	3.3 - 5.6	6	12.57	0.56	4.5	12.7	9.4 - 15.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	6	10.68	0.63	5.9	10.7	8.0 - 13.4	6	7.57	0.77	10.1	7.7	5.6 - 9.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	9.75	0.47	4.8	10.0	7.3 - 12.2						

Digoxin (ng/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<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	24	0.78	0.16	19.8	0.8	0.5 - 1.0	24	1.01	0.17	16.5	1.0	0.8 - 1.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<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	24	1.48	0.18	12.5	1.5	1.1 - 1.8	24	1.11	0.18	16.0	1.1	0.8 - 1.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	24	2.68	0.29	10.7	2.7	2.1 - 3.3						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	9.43	0.23	2.4	9.3	7.0 - 11.8	5	3.90	0.10	2.6	3.9	2.9 - 4.9
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	4.27	0.12	2.7	4.2	3.2 - 5.4	5	6.77	0.21	3.1	6.7	5.0 - 8.5
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	2.60	0.10	3.8	2.6	1.9 - 3.3						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	2.23	0.06	2.6	2.2	1.7 - 2.7	5	1.43	0.06	4.0	1.4	1.1 - 1.8
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.37	0.06	4.2	1.4	1.0 - 1.7	5	1.80	0.01	0.0	1.8	1.4 - 2.2
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	0.70	0.01	0.0	0.7	0.4 - 1.0						

Phenobarbital (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	18.55	1.77	9.5	18.6	14.8 - 22.3	6	25.95	1.91	7.4	26.0	20.7 - 31.2
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	30.50	1.56	5.1	30.5	24.4 - 36.6	6	24.50	0.99	4.0	24.5	19.6 - 29.4
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	46.25	2.19	4.7	46.3	37.0 - 55.5						

Phenytoin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	9.64	0.77	8.0	9.5	7.2 - 12.1	10	25.72	2.61	10.2	25.5	19.2 - 32.2
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	21.97	1.92	8.7	21.3	16.4 - 27.5	10	15.85	1.58	9.9	15.4	11.8 - 19.9
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	19.82	2.26	11.4	19.8	14.8 - 24.8						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	16.30	0.57	3.5	16.3	14.6 - 18.0	5	11.10	1.27	11.5	11.1	7.2 - 15.0
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	17.60	1.27	7.2	17.6	13.7 - 21.5	5	17.45	0.21	1.2	17.5	15.7 - 19.2
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	31.80	1.13	3.6	31.8	28.4 - 35.2						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	14.17	0.80	5.7	14.1	10.6 - 17.8	7	36.27	1.72	4.7	35.7	27.2 - 45.4
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	28.10	2.34	8.3	26.8	21.0 - 35.2	7	20.90	1.82	8.7	19.9	15.6 - 26.2
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	18.57	2.38	12.8	17.4	13.9 - 23.3						

Valproic Acid (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	100.66	5.91	5.9	99.9	75.4 - 125.9	8	56.19	2.09	3.7	56.1	42.1 - 70.3
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	79.19	5.60	7.1	78.2	59.3 - 99.0	8	89.76	5.41	6.0	88.5	67.3 - 112.3
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	111.28	8.66	7.8	109.6	83.4 - 139.1						

Vancomycin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	15.88	2.86	18.0	15.1	7.3 - 24.5	6	24.87	4.64	18.7	23.6	10.9 - 38.8
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	29.97	5.31	17.7	28.6	14.0 - 46.0	6	23.00	4.66	20.2	21.9	9.0 - 37.0
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	47.28	8.11	17.2	45.1	22.9 - 71.7						

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-3						Specimen LP-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	83.8	17.3	20.6	77	58 - 109	5	107.2	23.1	21.6	100	75 - 140

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-3						Specimen LP-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	44.5	10.5	23.6	41	33 - 56	6	58.8	9.9	16.9	57	44 - 74

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	13.47	0.91	6.8	13.4	10.7 - 16.2	24	7.20	0.35	4.8	7.3	5.7 - 8.7
No Reagent Required												
All Chemistry Instruments	15	13.66	0.42	3.0	13.7	10.9 - 16.4	15	7.31	0.17	2.3	7.3	5.8 - 8.8
	Specimen NB-8						Specimen NB-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	21.12	1.60	7.6	21.4	16.8 - 25.4	24	2.57	0.26	10.2	2.5	2.0 - 3.1
No Reagent Required												
All Chemistry Instruments	15	21.84	1.17	5.4	21.8	17.4 - 26.3	15	2.51	0.30	12.0	2.4	2.0 - 3.1
	Specimen NB-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	18.87	1.22	6.5	19.1	15.0 - 22.7						
No Reagent Required												
All Chemistry Instruments	15	19.39	0.64	3.3	19.6	15.5 - 23.3						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	6.38	2.72	42.6	6.4	0.9 - 11.9	11	3.60	1.00	27.8	3.2	1.6 - 5.6
	Specimen NB-8						Specimen NB-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	10.95	2.73	24.9	9.9	5.4 - 16.4	11	0.67	0.66	98.6	0.5	0.0 - 2.0
	Specimen NB-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	9.89	2.46	24.9	9.0	4.9 - 14.9						

Blood Gases – pH

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	7.147	0.014	0.2	7.15	7.10 - 7.19	13	7.600	0.022	0.3	7.61	7.56 - 7.64
i-STAT	11	7.152	0.008	0.1	7.15	7.11 - 7.20	11	7.608	0.004	0.1	7.61	7.56 - 7.65
	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	7.277	0.013	0.2	7.28	7.23 - 7.32	13	7.324	0.015	0.2	7.33	7.28 - 7.37
i-STAT	11	7.282	0.004	0.1	7.28	7.24 - 7.33	11	7.330	0.001	0.0	7.33	7.29 - 7.37
	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	7.317	0.013	0.2	7.32	7.27 - 7.36						
i-STAT	11	7.322	0.004	0.1	7.32	7.28 - 7.37						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	67.51	5.63	8.3	65.3	62.1 - 73.0	13	24.64	0.78	3.2	24.6	19.6 - 29.7
i-STAT	11	65.60	2.68	4.1	65.2	60.3 - 70.9	11	24.42	0.55	2.2	24.6	19.4 - 29.5
	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	46.43	3.19	6.9	45.7	41.4 - 51.5	13	50.74	3.69	7.3	49.4	45.7 - 55.8
i-STAT	11	45.33	1.45	3.2	45.5	40.3 - 50.4	11	49.53	2.00	4.0	49.2	44.5 - 54.6
	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	36.64	1.93	5.3	36.4	31.6 - 41.7						
i-STAT	11	36.08	1.35	3.8	36.1	31.0 - 41.1						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	98.43	9.07	9.2	96.0	71.2 - 125.7	13	110.57	3.51	3.2	111.0	100.0 - 121.1
i-STAT	11	100.00	8.83	8.8	98.0	73.5 - 126.5	11	110.00	3.46	3.1	111.0	99.6 - 120.4
	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	162.71	14.80	9.1	157.0	118.3 - 207.2	13	189.57	22.17	11.7	180.0	123.0 - 256.1
i-STAT	11	158.33	10.07	6.4	155.0	128.1 - 188.6	11	182.50	13.03	7.1	178.5	143.3 - 221.7
	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	83.71	10.67	12.7	84.0	51.6 - 115.8						
i-STAT	11	85.33	10.71	12.5	85.0	53.2 - 117.5						

Blood Gases – Ionized Calcium (mmol/L)

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.755	0.090	5.1	1.76	1.48 - 2.03	5	1.050	0.060	5.7	1.05	0.72 - 1.38
	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	1.095	0.060	5.5	1.10	0.91 - 1.28	5	1.410	0.140	9.9	1.41	0.99 - 1.83
	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	0.545	0.040	7.3	0.55	0.42 - 0.67						

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-6 through BG-10 are: 87 mmol/L, 106 mmol/L, 98 mmol/L, 93 mmol/L, and 72 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-6 through BG-10 are: 3.9 mmol/L, 6.9 mmol/L, 4.5 mmol/L, 4.4 mmol/L, and 2.0 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-6 through BG-10 are: 141 mmol/L, 169 mmol/L, 156 mmol/L, 139 mmol/L, and 114 mmol/L, respectively.

Blood Gases – Lactic Acid (mmol/L)

Specimen BG-6							Specimen BG-7					
<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	2	-	-	-	3.68	Not graded	2	-	-	-	0.91	Not graded
Specimen BG-8							Specimen BG-9					
All Method	2	-	-	-	2.25	Not graded	2	-	-	-	0.71	Not graded
Specimen BG-10												
All Method	2	-	-	-	6.00	Not graded						

Glycohemoglobin (percent)

Specimen GH-3							Specimen GH-4					
<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	220	7.72	0.26	3.4	7.7	6.9 - 8.5	220	6.13	0.24	3.9	6.2	5.5 - 6.8
All Hemoglobin A1c Methods	220	7.72	0.26	3.4	7.7	6.9 - 8.5	220	6.13	0.24	3.9	6.2	5.5 - 6.8
All TOSOH Methods	19	7.64	0.19	2.6	7.6	6.8 - 8.5	19	6.01	0.21	3.5	6.0	5.4 - 6.7
Siemens DCA 2000/+	12	7.86	0.19	2.4	7.9	7.0 - 8.7	12	6.33	0.16	2.5	6.4	5.6 - 7.0
Siemens DCA Vantage	96	7.76	0.15	2.0	7.8	6.9 - 8.6	95	6.21	0.17	2.7	6.2	5.5 - 6.9
Siemens Dimension HB1C	38	7.68	0.24	3.2	7.7	6.9 - 8.5	38	6.02	0.20	3.3	6.0	5.4 - 6.7
TOSOH G8	13	7.59	0.17	2.2	7.6	6.8 - 8.4	13	5.97	0.22	3.6	5.9	5.3 - 6.6

Afinion Glycohemoglobin (percent)

Specimen AFN-3							Specimen AFN-4					
<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>
Axis-Shield Afinion AS100	48	6.34	0.15	2.3	6.3	5.7 - 7.0	49	8.27	0.16	2.0	8.3	7.4 - 9.1

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-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	7	7.614	2.150	28.2	8.50	3.31 - 11.92	7	2.017	0.491	24.3	2.30	1.03 - 3.00

Insulin (μU/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-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	93.48	31.18	33.4	112.6	31.1 - 155.9	14	34.15	10.74	31.4	40.5	12.6 - 55.7

Parathyroid hormone (pg/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-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	45	62.2	11.8	19.0	61	38 - 86	44	11.5	2.0	17.8	11	7 - 16
All TOSOH Instruments	12	65.4	4.8	7.3	66	55 - 76	12	12.1	1.1	9.0	12	9 - 15
Beckman ACCESS / 2 / Dxl	13	57.2	4.6	8.1	56	47 - 67	13	10.7	1.2	11.1	10	8 - 14

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

<u>Method</u>	Specimen CIP-3						Specimen CIP-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	43.26	11.19	25.9	41.7	20.8 - 65.7	86	25.34	8.84	34.9	22.9	7.6 - 43.1
All Roche Instruments	12	27.66	2.37	8.6	27.9	22.9 - 32.4	12	13.98	1.54	11.0	13.3	10.9 - 17.1
All TOSOH Instruments	17	50.99	2.84	5.6	52.0	45.3 - 56.7	17	34.02	2.75	8.1	34.3	28.5 - 39.6
Abbott Architect	16	39.39	2.32	5.9	39.3	34.7 - 44.1	16	20.89	1.95	9.3	21.1	16.9 - 24.8
Beckman ACCESS / 2 / Dxl	14	40.80	3.35	8.2	40.5	34.0 - 47.6	14	21.89	2.38	10.9	21.3	17.1 - 26.7
Roche cobas e 411	10	27.79	2.40	8.6	27.9	22.9 - 32.6	10	14.27	1.47	10.3	14.0	11.3 - 17.3
TOSOH ST AIA	10	51.58	2.58	5.0	52.5	46.4 - 56.8	10	35.04	2.46	7.0	35.4	30.1 - 40.0

BNP (pg/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	61.85	37.42	60.5	55.2	0.0 - 136.7	6	873.00	206.48	23.7	666.0	460.0 - 1286.0
All Non-Biosite Triage Methods	5	64.24	41.32	64.3	50.1	0.0 - 146.9	5	825.20	190.15	23.0	881.6	444.9 - 1205.5
Alere Triage	61	54.81	7.16	13.1	55.2	40.4 - 69.2	60	664.80	81.75	12.3	655.5	501.3 - 828.3
	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	-	-	-	354.0	Not graded	2	-	-	-	1780.0	Not graded
All Non-Biosite Triage Methods	2	-	-	-	441.4	Not graded	2	-	-	-	1955.1	Not graded
Alere Triage	40	369.58	45.61	12.3	354.0	278.3 - 460.8	40	1821.25	252.81	13.9	1780.0	1315.6 - 2326.9
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	1115.0	Not graded						
All Non-Biosite Triage Methods	2	-	-	-	1196.5	Not graded						
Alere Triage	39	1144.77	147.19	12.9	1120.0	850.3 - 1439.2						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	5.83	0.98	16.8	3.5	2.8 - 8.8	15	26.91	3.09	11.5	15.6	17.6 - 36.2
Alere Triage	35	3.20	0.49	15.4	3.2	1.7 - 4.7	36	13.99	2.29	16.4	14.1	7.1 - 20.9
	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	15.70	2.80	17.9	8.8	7.2 - 24.2	14	97.53	11.41	11.7	50.6	63.3 - 131.8
Alere Triage	36	8.29	1.25	15.1	8.4	4.5 - 12.1	36	45.65	8.71	19.1	43.7	19.5 - 71.8
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	50.53	5.75	11.4	25.7	33.2 - 67.8						
Alere Triage	36	24.60	4.37	17.8	24.2	11.4 - 37.8						

D-Dimer (ng/mL)

Specimen CK-6							Specimen CK-7					
<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	5	1082.6	515.0	47.6	703	52 - 2113	5	1537.4	749.2	48.7	1020	39 - 3036
Alere Triage	32	689.0	71.2	10.3	703	482 - 896	32	1052.1	130.5	12.4	1015	736 - 1368
Specimen CK-8							Specimen CK-9					
All Method	3	-	-	-	859	Not graded	3	-	-	-	2175	Not graded
Alere Triage	31	875.0	117.1	13.4	858	612 - 1138	31	2134.5	230.2	10.8	2170	1494 - 2775
Specimen CK-10												
All Method	3	-	-	-	1435	Not graded						
Alere Triage	31	1417.4	178.3	12.6	1410	992 - 1843						

D-Dimer (µgFEU/mL)

Specimen CK-6							Specimen CK-7					
<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	2	-	-	-	0.3	Not graded	2	-	-	-	0.6	Not graded

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	25.77	2.57	10.0	38.3	18.0 - 33.5	6	124.87	19.33	15.5	150.0	87.4 - 162.4
Alere Triage	27	38.95	3.37	8.6	38.9	27.2 - 50.7	29	156.51	24.91	15.9	154.0	109.5 - 203.5
	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	73.63	10.51	14.3	96.3	51.5 - 95.8	6	429.83	81.78	19.0	406.0	300.8 - 558.8
Alere Triage	29	97.36	15.35	15.8	99.5	68.1 - 126.6	29	418.86	56.31	13.4	402.0	293.2 - 544.6
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	225.35	43.07	19.1	243.0	157.7 - 293.0						
Alere Triage	29	251.48	39.23	15.6	246.0	176.0 - 327.0						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	5	58.0	60.8	104.8	35	0 - 180	5	1542.5	1737.9	112.7	804	0 - 5019
	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	1	-	-	-	211	Not graded	1	-	-	-	2423	Not graded
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	1	-	-	-	1122	Not graded						

Troponin I (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	0.146	0.260	178.5	0.05	0.00 - 0.67	57	1.739	0.398	22.9	1.72	0.94 - 2.54
Alere Triage	44	0.050	0.001	0.0	0.05	0.03 - 0.07	44	1.753	0.433	24.7	1.74	0.88 - 2.62
	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	57	0.660	0.169	25.6	0.64	0.32 - 1.00	56	10.296	2.716	26.4	10.60	4.86 - 15.73
Alere Triage	44	0.610	0.151	24.7	0.59	0.30 - 0.92	44	11.240	2.222	19.8	11.20	6.79 - 15.69
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	57	4.438	1.172	26.4	4.43	2.09 - 6.79						
Alere Triage	44	4.749	1.133	23.9	4.64	2.48 - 7.02						

PSA (ng/mL)

<u>Method</u>	Specimen PS-3						Specimen PS-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	176	13.568	2.208	16.3	13.08	9.49 - 17.64	174	6.918	0.961	13.9	6.76	4.84 - 9.00
All Roche Elecsys/Cobas Instruments	10	14.270	1.059	7.4	14.45	9.98 - 18.56	10	7.373	0.498	6.8	7.42	5.16 - 9.59
All TOSOH Instruments	39	11.564	0.664	5.7	11.53	8.09 - 15.04	39	6.045	0.399	6.6	6.02	4.23 - 7.86
Abbott Architect	16	12.677	0.633	5.0	12.78	8.87 - 16.48	16	6.348	0.288	4.5	6.30	4.44 - 8.26
Beckman ACCESS / 2 / Dxl	16	15.817	0.955	6.0	15.55	11.07 - 20.57	16	8.094	0.535	6.6	8.02	5.66 - 10.53
Beckman ACCESS Hybritech PSA	22	15.470	1.126	7.3	15.33	10.82 - 20.12	22	7.911	0.402	5.1	7.92	5.53 - 10.29
bioMerieux Vidas, Mini Vidas	31	14.452	1.054	7.3	14.76	10.11 - 18.79	31	7.351	0.515	7.0	7.47	5.14 - 9.56
Siemens Dimension TPSA	24	12.157	0.486	4.0	12.06	8.50 - 15.81	25	6.138	0.299	4.9	6.02	4.29 - 7.98
TOSOH AIA	15	11.641	0.526	4.5	11.49	8.14 - 15.14	15	6.058	0.304	5.0	6.02	4.24 - 7.88
TOSOH ST AIA	24	11.515	0.744	6.5	11.57	8.06 - 14.97	24	6.038	0.455	7.5	6.01	4.22 - 7.85

Beta-2 microglobulin

<u>Method</u>	Specimen TM-3						Specimen TM-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	7	2.149	0.120	5.6	2.13	1.78 - 2.51	7	0.190	0.013	6.8	0.20	0.15 - 0.23
TOSOH ST AIA	5	2.128	0.122	5.7	2.13	1.76 - 2.50	5	0.186	0.013	7.2	0.18	0.14 - 0.23

CA 125 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	13	80.2	13.5	16.8	106	56 - 105	13	14.9	2.7	17.8	19	10 - 20
All TOSOH Instruments	11	132.1	6.6	5.0	130	92 - 172	11	23.4	1.3	5.5	23	16 - 31
TOSOH ST AIA	10	131.6	6.8	5.1	129	92 - 172	10	23.3	1.3	5.7	23	16 - 31

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	109.0	28.3	26.0	115	24 - 194	11	32.6	7.9	24.3	34	8 - 57

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	8	37.9	20.1	53.1	30	0 - 99	8	12.1	5.5	45.7	11	0 - 29

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	138.3	9.2	6.7	140	110 - 166	14	39.3	2.8	7.2	40	30 - 48
All TOSOH Instruments	14	138.3	9.2	6.7	140	110 - 166	14	39.3	2.8	7.2	40	30 - 48
TOSOH ST AIA	13	139.7	7.9	5.7	141	115 - 164	13	39.8	2.0	5.0	40	33 - 46

CEA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	10	19.61	3.37	17.2	24.2	13.7 - 25.5	10	1.94	0.42	21.5	2.7	0.7 - 3.2
All TOSOH Instruments	14	25.16	1.04	4.1	25.5	17.6 - 32.8	14	2.90	0.16	5.6	2.9	1.7 - 4.1
TOSOH ST AIA	13	25.11	1.06	4.2	25.3	17.5 - 32.7	13	2.91	0.17	5.7	2.9	1.7 - 4.2

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	16	9.807	1.735	17.7	9.80	6.86 - 12.75	16	0.014	0.025	174.1	0.00	0.00 - 0.92

PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	46	10.391	1.717	16.5	10.45	7.27 - 13.51	45	0.043	0.032	76.0	0.05	0.00 - 0.95
All TOSOH Instruments	13	9.442	0.457	4.8	9.26	6.60 - 12.28	12	0.050	0.020	39.1	0.05	0.00 - 0.95
TOSOH ST AIA	12	9.373	0.398	4.2	9.24	6.56 - 12.19	11	0.050	0.020	41.0	0.05	0.00 - 0.95

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-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	7	29.66	4.39	14.8	29.3	20.8 - 38.5	7	1.04	0.57	55.0	1.4	0.0 - 2.2

CEA (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	16	15.92	1.34	8.4	18.9	11.1 - 20.7	16	8.10	0.56	6.9	10.0	5.6 - 10.6
All TOSOH Instruments	12	20.20	1.22	6.1	20.1	14.1 - 26.3	12	10.64	0.57	5.3	10.6	7.4 - 13.9
TOSOH ST AIA	10	20.30	1.43	7.0	20.4	14.2 - 26.4	10	10.48	0.49	4.7	10.5	7.3 - 13.7

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	8	294.64	24.20	8.2	297.5	250.4 - 338.9	8	186.25	17.06	9.2	185.5	158.3 - 214.2

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	39	314.5	97.2	30.9	266	120 - 509	38	195.0	65.4	33.6	164	64 - 326
All TOSOH Instruments	11	460.1	29.3	6.4	463	401 - 519	11	291.3	16.8	5.8	289	257 - 325

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	54	178.6	27.7	15.5	142	125 - 233	53	95.0	15.5	16.3	74	66 - 124
All Abbott Instruments	10	219.8	7.6	3.5	220	153 - 286	10	118.3	4.9	4.2	120	82 - 154
All TOSOH Instruments	28	135.9	7.2	5.3	137	95 - 177	28	70.1	3.7	5.3	72	49 - 92
Abbott Architect	10	219.8	7.6	3.5	220	153 - 286	10	118.3	4.9	4.2	120	82 - 154
Beckman ACCESS / 2 / Dxl	33	137.8	6.4	4.7	140	96 - 180	34	71.7	4.0	5.5	72	50 - 94
Siemens Dimension	12	179.8	7.9	4.4	180	125 - 234	11	97.4	3.2	3.3	97	68 - 127
TOSOH AIA	12	133.5	6.1	4.6	136	93 - 174	12	69.8	3.1	4.5	70	48 - 91
TOSOH ST AIA	16	137.8	7.6	5.5	139	96 - 180	16	70.4	4.2	6.0	72	49 - 92

Folate (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	30	4.24	0.72	17.0	4.5	2.9 - 5.6	30	2.72	0.71	26.0	2.9	1.8 - 3.7
All TOSOH Instruments	15	4.35	0.89	20.5	4.2	3.0 - 5.7	15	2.83	0.66	23.3	2.6	1.9 - 3.8
Beckman ACCESS / 2 / Dxl	34	4.77	0.75	15.7	5.0	3.3 - 6.2	34	3.00	0.43	14.2	3.1	2.1 - 3.9
TOSOH AIA	12	4.57	0.87	19.0	4.6	3.1 - 6.0	12	2.93	0.71	24.1	2.8	2.0 - 3.9

FSH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	33.80	2.81	8.3	33.4	25.3 - 42.3	50	20.42	1.86	9.1	20.2	15.3 - 25.6
All TOSOH Instruments	12	36.33	1.73	4.7	36.1	27.2 - 45.5	12	22.83	1.02	4.5	23.0	17.1 - 28.6
Beckman ACCESS / 2 / Dxl	12	33.48	2.39	7.1	32.8	25.1 - 41.9	11	19.65	1.10	5.6	19.9	14.7 - 24.6

Homocysteine (μmol/L)

<u>Method</u>	Specimen SC-3						Specimen SC-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	12	23.4	2.5	10.5	24	18 - 29	12	14.9	1.1	7.3	15	11 - 18

LH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	44	24.55	5.62	22.9	22.8	13.3 - 35.8	44	14.12	3.40	24.1	13.2	7.3 - 21.0
Beckman ACCESS / 2 / Dxl	10	22.09	0.89	4.0	22.2	20.3 - 23.9	10	12.61	0.78	6.2	12.9	11.0 - 14.2

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	30	29.19	6.51	22.3	27.0	20.4 - 38.0	30	18.12	4.34	24.0	17.2	12.6 - 23.6
All TOSOH Instruments	12	26.83	1.54	5.7	26.7	18.7 - 34.9	12	17.36	1.09	6.3	17.4	12.1 - 22.6

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	36	9.81	1.28	13.0	9.8	6.2 - 13.5	36	6.34	0.87	13.7	6.5	2.7 - 10.0

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	88	749.7	144.8	19.3	757	524 - 975	88	465.6	93.3	20.0	452	325 - 606
All Immulite Instruments	10	949.6	176.1	18.5	951	664 - 1235	10	646.0	114.4	17.7	619	452 - 840
All TOSOH Instruments	19	887.9	68.7	7.7	897	621 - 1155	19	556.0	39.6	7.1	552	389 - 723
Abbott Architect	10	862.3	78.9	9.2	827	603 - 1121	10	470.8	44.0	9.3	453	329 - 613
Beckman ACCESS / 2 / Dxl	33	619.8	37.9	6.1	621	433 - 806	33	386.9	20.8	5.4	387	270 - 503
TOSOH ST AIA	11	910.3	61.6	6.8	933	637 - 1184	11	557.7	42.4	7.6	567	390 - 726

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	168.2	13.4	8.0	171	156 - 180	12	120.6	5.6	4.6	121	112 - 130

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-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	96	809.2	81.6	10.1	813	566 - 1052	96	587.3	57.2	9.7	581	411 - 764
All Roche Elecsys/Cobas Instruments	10	830.9	71.3	8.6	834	581 - 1081	10	560.5	49.3	8.8	569	392 - 729
All TOSOH Instruments	20	848.9	76.0	8.9	848	594 - 1104	20	652.2	52.8	8.1	667	456 - 848
Abbott Architect	12	857.1	52.4	6.1	861	599 - 1115	12	595.4	38.8	6.5	594	416 - 775
Beckman ACCESS / 2 / Dxl	38	759.3	71.7	9.4	759	531 - 988	38	555.7	39.3	7.1	551	388 - 723
TOSOH AIA	17	846.8	81.6	9.6	846	592 - 1101	17	653.9	53.2	8.1	674	457 - 851

Serum Alcohol (mg/dL)

Specimen ETH-6							Specimen ETH-7					
<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	6	0.5	0.5	109.5	1	0 - 1	10	136.2	5.7	4.2	137	102 - 171
Roche Integra	5	0.6	0.5	91.3	1	0 - 1	5	136.4	2.3	1.7	136	102 - 171
Specimen ETH-8							Specimen ETH-9					
All Method	10	167.3	5.9	3.5	168	125 - 210	10	24.9	0.9	3.5	25	18 - 32
Roche Integra	5	167.4	2.8	1.7	166	125 - 210	5	24.8	1.1	4.4	25	18 - 31
Specimen ETH-10												
All Method	10	126.1	3.8	3.0	127	94 - 158						
Roche Integra	5	126.8	2.6	2.0	126	95 - 159						

Acetone

Specimen ETH-6						Specimen ETH-7				
<u>Method</u>	<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	8	8	-	-	-	8	8	-	-	-
Siemens Acetest	6	6	-	-	-	6	6	-	-	-
Specimen ETH-8						Specimen ETH-9				
ALL METHODS	8	-	2	4	2	8	8	-	-	-
Siemens Acetest	6	-	2	2	2	6	6	-	-	-
Specimen ETH-10										
ALL METHODS	8	-	5	3	-					
Siemens Acetest	6	-	3	3	-					

Anti-Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-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	20	5.9	8.7	148.5	1	0 - 24	18	2246.5	826.7	36.8	2500	593 - 3900

Anti-Microsomal Antibody (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-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	21	4.0	5.7	145.0	1	0 - 16	20	905.1	286.4	31.6	939	332 - 1478

Ammonia (μmol/L)

<u>Method</u>	Specimen AMM-3						Specimen AMM-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	297.0	8.2	2.7	294	280 - 314	5	41.4	3.3	7.9	42	34 - 48

Urine Drug Screen

Acetaminophen (μg/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<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 5						
Alere Triage	5	-	5	5	-	5
All Cut-off 5	5	-	5	5	-	5

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	95	95	-	94	-	94
Cut-off 250						
eScreen M-Cup	1	1	-	1	-	1
Lin-Zhi International	1	1	-	1	-	1
All Cut-off 250	2	2	-	2	-	2
Cut-off 300						
Alere iCup	1	1	-	1	-	1
Alere iScreen	5	5	-	5	-	5
Dade Behring EMIT II Plus	1	1	-	1	-	1
eScreen M-Cup	2	2	-	2	-	2
All Cut-off 300	9	9	-	9	-	9
Cut-off 500						
Beckman AU	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
Indiko Plus	2	2	-	2	-	2
MEDTOX Diagnostics	7	7	-	7	-	7
Roche Integra	1	1	-	1	-	1
Synermed IR 500	1	1	-	1	-	1
All Cut-off 500	14	14	-	14	-	14
Cut-off 1000						
Alere iCassette	4	4	-	4	-	4
Alere iCup	4	4	-	4	-	4
Alere Triage	3	3	-	3	-	3
AMBC Rapid Drug/Tox	1	1	-	1	-	1
Amedica Biotech	1	1	-	1	-	1
Beckman AU	1	1	-	1	-	1
Bio-Rad TOX/See	4	4	-	4	-	4
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	1	1	-	1	-	1
eScreen M-Cup	2	2	-	2	-	2
Germaine Laboratories AimScreen	1	1	-	1	-	1
Immunalysis	2	2	-	2	-	2
Innovacon Multi-Drug One Step	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	2	2	-	2	-	2
Noble Medical Inc.	2	2	-	2	-	2
Redwood Toxicology Reditest	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
USDiagnostics Proscreen	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 1000	50	50	-	50	-	50

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	22	17	5	22	-	22
Cut-off 250						
eScreen M-Cup	1	-	1	1	-	1
All Cut-off 250	1	-	1	1	-	1
Cut-off 500						
Dade Behring EMIT II Plus	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
All Cut-off 500	3	3	-	3	-	3
Cut-off 1000						
Alere iCassette	1	1	-	1	-	1
Alere Triage	1	1	-	1	-	1
AMBC Rapid Drug/Tox	1	1	-	1	-	1
Amedica Biotech	1	1	-	1	-	1
Dade Behring EMIT II Plus	1	1	-	1	-	1
eScreen M-Cup	4	-	4	4	-	4
Microgenics DRI	4	4	-	4	-	4
All Cut-off 1000	13	9	4	13	-	13

Barbiturates (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	86	-	86	86	-	86
Cut-off 100						
eScreen M-Cup	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 200						
Beckman AU	2	-	2	2	-	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	2	-	2	2	-	2
ImmTox	1	-	1	1	-	1
Immunalysis	3	-	3	3	-	3
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	6	-	6	6	-	6
MEDTOX Diagnostics	8	-	8	8	-	8
Microgenics DRI	5	-	5	5	-	5
Roche Integra	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	34	-	34	34	-	34
Cut-off 300						
Alere iCassette	4	-	4	4	-	4
Alere iCup	5	-	5	5	-	5
Alere iScreen	5	-	5	5	-	5
Alere Triage	3	-	3	3	-	3
Amedica Biotech	2	-	2	2	-	2
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	4	-	4	4	-	4
BMC QuickTox Drug Screen	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
eScreen M-Cup	4	-	4	4	-	4
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
USDiagnostics Proscreen	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	36	-	36	36	-	36

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	99	-	99	98	-	98
Cut-off 100						
Beckman AU	1	-	1	1	-	1
eScreen M-Cup	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
All Cut-off 100	5	-	5	5	-	5
Cut-off 150						
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	7	-	7	7	-	7
All Cut-off 150	8	-	8	8	-	8
Cut-off 200						
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	2	-	2	2	-	2
Immunalysis	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	7	-	7	7	-	7
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200	2	-	2	2	-	2
Roche Integra	1	-	1	1	-	1
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	5	-	5	5	-	5
Alere iScreen	5	-	5	5	-	5
Alere Triage	4	-	4	4	-	4
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	4	-	4	4	-	4
BMC QuickTox Drug Screen	2	-	2	2	-	2
Dade Behring EMIT II Plus	1	-	1	1	-	1
eScreen M-Cup	4	-	4	4	-	4
Innovacon Multi-Drug One Step	1	-	1	-	-	-
MEDTOX Diagnostics	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
USDiagnostics Proscreen	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	38	-	38	38	-	38

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	36	1	35	36	34	2
Cut-off 5						
Beckman AU	1	-	1	1	1	-
Dade Behring EMIT II Plus	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Immunalysis	3	-	3	3	3	-
Lin-Zhi International	6	-	6	6	6	-
Microgenics CEDIA	5	-	5	5	5	-
Microgenics DRI	1	-	1	1	1	-
Mindray BS-200	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 5	20	-	20	20	20	-
Cut-off 10						
Alere iCup	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	1	-	1	-	1
MEDTOX Diagnostics	7	-	7	7	7	-
Microgenics CEDIA	1	-	1	1	1	-
Mindray BS-200	1	-	1	1	1	-
All Cut-off 10	12	1	11	12	11	1
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-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	107	-	107	107	-	107
Cut-off 25						
Alere iScreen	1	-	1	1	-	1
eScreen M-Cup	1	-	1	1	-	1
All Cut-off 25	2	-	2	2	-	2
Cut-off 50						
Alere iCassette	4	-	4	4	-	4
Alere iCup	6	-	6	6	-	6
Alere iScreen	4	-	4	4	-	4
Alere Triage	3	-	3	3	-	3
Alfa Scientific Instant-View	2	-	2	2	-	2
Amedica Biotech	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
Bio-Rad TOX/See	4	-	4	4	-	4
BMC QuickTox Drug Screen	2	-	2	2	-	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	3	-	3	3	-	3
eScreen M-Cup	4	-	4	4	-	4
Germaine Laboratories AimScreen	3	-	3	3	-	3
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	8	-	8	8	-	8
MEDTOX Diagnostics	8	-	8	8	-	8
Microgenics DRI	9	-	9	9	-	9
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
USDiagnostics Proscreen	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 50	82	-	82	82	-	82

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	110	-	110	111	111	-
Cut-off 50						
eScreen M-Cup	1	-	1	1	1	-
All Cut-off 50	1	-	1	1	1	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Lin-Zhi International	2	-	2	2	2	-
All Cut-off 100	4	-	4	4	4	-
Cut-off 150						
Alere iCup	1	-	1	1	1	-
Dade Behring EMIT II Plus	1	-	1	1	1	-
eScreen M-Cup	2	-	2	2	2	-
Indiko Plus	1	-	1	1	1	-
MEDTOX Diagnostics	7	-	7	7	7	-
Microgenics DRI	2	-	2	2	2	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 150	15	-	15	15	15	-

Cocaine Metabolites (ng/mL) cont'd

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Cut-off 300						
Alere iCassette	4	-	4	4	4	-
Alere iCup	4	-	4	4	4	-
Alere iScreen	5	-	5	5	5	-
Alere Triage	3	-	3	3	3	-
Alfa Scientific Instant-View	2	-	2	2	2	-
Amedica Biotech	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
Bio-Rad TOX/See	4	-	4	4	4	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	2	-	2	2	2	-
eScreen M-Cup	2	-	2	2	2	-
Germaine Laboratories						
AimScreen	3	-	3	3	3	-
Immunalysis	2	-	2	2	2	-
Indiko Plus	1	-	1	1	1	-
Innovacon Multi-Drug One						
Step	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	7	-	7	7	7	-
MEDTOX Diagnostics	1	-	1	1	1	-
Microgenics DRI	7	-	7	7	7	-
Mindray BS-200	2	-	2	2	2	-
Noble Medical Inc.	2	-	2	2	2	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Roche Integra	3	-	3	3	3	-
USDiagnostics Proscreen	1	-	1	1	1	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 300	67	-	67	67	67	-

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<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-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	1	-
Cut-off 300						
Microgenics DRI	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	22	20	2	22	20	2
Cut-off 20						
Dade Behring EMIT II Plus	2	2	-	2	2	-
Microgenics DRI	1	1	-	1	1	-
All Cut-off 20	3	3	-	3	3	-
Cut-off 50						
Beckman AU	1	1	-	1	1	-
All Cut-off 50	1	1	-	1	1	-
Cut-off 100						
Immunalysis	2	2	-	2	2	-
Lin-Zhi International	8	8	-	8	8	-
Microgenics DRI	2	2	-	2	2	-
Synermed IR 500	1	1	-	1	1	-
All Cut-off 100	14	14	-	14	14	-
Cut-off 3						
Roche Integra	1	1	-	1	1	-
All Cut-off 3	1	1	-	1	1	-

LSD (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<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-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	36	34	2	35	-	35
Cut-off 100						
eScreen M-Cup	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1
Cut-off 300						
Dade Behring EMIT II Plus	1	1	-	1	-	1
All Cut-off 300	1	1	-	1	-	1
Cut-off 500						
Alere iCassette	2	2	-	2	-	2
Alere iCup	4	4	-	4	-	4
Amedica Biotech	2	2	-	2	-	2
Beckman AU	1	1	-	1	-	1
Bio-Rad TOX/See	4	4	-	4	-	4
BMC QuickTox Drug Screen	1	1	-	1	-	1
Dade Behring EMIT II Plus	1	1	-	1	-	1
eScreen M-Cup	4	4	-	4	-	4
Lin-Zhi International	3	2	1	3	-	3
Microgenics DRI	3	3	-	3	-	3
Redwood Toxicology Reditest	1	1	-	1	-	1
USDiagnostics Proscreen	1	1	-	1	-	1
All Cut-off 500	28	27	1	28	-	28

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	78	1	77	78	2	76
Cut-off 100						
eScreen M-Cup	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Dade Behring EMIT II Plus	1	-	1	1	-	1
All Cut-off 150	1	-	1	1	-	1
Cut-off 200						
MEDTOX Diagnostics	7	-	7	7	-	7
All Cut-off 200	7	-	7	7	-	7
Cut-off 300						
Alere iCassette	2	-	2	2	-	2
Alere iCup	3	-	3	3	-	3
Alere Triage	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Beckman AU	3	-	3	3	1	2
Bio-Rad TOX/See	4	-	4	4	-	4
BMC QuickTox Drug Screen	2	-	2	2	-	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	2	-	2	2	-	2
eScreen M-Cup	4	-	4	4	-	4
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	1	-
Indiko Plus	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Lin-Zhi International	6	1	5	6	-	6
Microgenics DRI	10	-	10	10	-	10
Mindray BS-200	2	-	2	2	-	2
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	53	1	52	53	2	51
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-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	53	53	-	53	-	53
Cut-off 250						
Lin-Zhi International	1	1	-	1	-	1
All Cut-off 250	1	1	-	1	-	1
Cut-off 500						
Alere iCup	1	1	-	1	-	1
Beckman AU	1	1	-	1	-	1
BMC QuickTox Drug Screen	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
Lin-Zhi International	2	2	-	2	-	2
MEDTOX Diagnostics	7	7	-	7	-	7
All Cut-off 500	14	14	-	14	-	14
Cut-off 1000						
Alere iCassette	1	1	-	1	-	1
Alere iCup	5	5	-	5	-	5
Alere iScreen	5	5	-	5	-	5
Alfa Scientific Instant-View	1	1	-	1	-	1
AMBC Rapid Drug/Tox	1	1	-	1	-	1
Amedica Biotech	1	1	-	1	-	1
Bio-Rad TOX/See	4	4	-	4	-	4
Innovacon Multi-Drug One Step	3	3	-	3	-	3
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Redwood Toxicology Reditest	1	1	-	1	-	1
USDiagnostics Proscreen	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 1000	26	26	-	26	-	26

Methaqualone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<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						
Beckman AU	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
All Cut-off 300	2	-	2	2	-	2

6-MAM (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	1	4	5	-	5
Cut-off 10						
Dade Behring EMIT II Plus	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 10	4	-	4	4	-	4

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	112	112	-	112	1	111
Cut-off 100						
Beckman AU	1	1	-	1	-	1
eScreen M-Cup	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
Lin-Zhi International	1	1	-	1	-	1
MEDTOX Diagnostics	7	7	-	7	-	7
All Cut-off 100	12	12	-	12	-	12
Cut-off 300						
Alere iCup	1	1	-	1	-	1
Alere Triage	4	4	-	4	-	4
Beckman AU	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	2	2	-	2	-	2
eScreen M-Cup	1	1	-	1	-	1
Immunalysis	2	2	-	2	-	2
Indiko Plus	2	2	-	2	-	2
Lin-Zhi International	7	7	-	7	-	7
MEDTOX Diagnostics	1	1	-	1	-	1
Microgenics DRI	9	9	-	9	-	9
Mindray BS-200	2	2	-	2	-	2
Redwood Toxicology Reditest	1	1	-	1	-	1
Roche Integra	3	3	-	3	-	3
Synermed IR 500	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 300	43	43	-	43	-	43

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

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Cut-off 1000						
Alere iScreen	5	5	-	5	-	5
All Cut-off 1000	5	5	-	5	-	5
Cut-off 2000						
Alere iCassette	4	4	-	4	-	4
Alere iCup	5	5	-	5	-	5
Alfa Scientific Instant-View	2	2	-	2	-	2
Amedica Biotech	1	1	-	1	-	1
Beckman AU	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BMC QuickTox Drug Screen	1	1	-	1	-	1
Dade Behring EMIT II Plus	1	1	-	1	-	1
eScreen M-Cup	3	3	-	3	-	3
Germaine Laboratories						
AimScreen	3	3	-	3	-	3
Innovacon Multi-Drug One						
Step	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Noble Medical Inc.	2	2	-	2	-	2
USDiagnosics Proscreen	1	1	-	1	-	1
All Cut-off 2000	30	30	-	30	-	30

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	74	2	72	73	1	72
Cut-off 100						
Alere iCassette	3	-	3	3	-	3
Alere iCup	5	-	5	5	-	5
Alere Triage	1	-	1	1	-	1
Amedica Biotech	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	4	-	4	4	-	4
BMC QuickTox Drug Screen	2	1	1	2	-	2
Dade Behring EMIT II Plus	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Immunalysis	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Lin-Zhi International	7	-	7	7	-	7
MEDTOX Diagnostics	7	-	7	7	-	7
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200	2	-	2	2	-	2
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
USDiagnostics Proscreen	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 100	55	1	54	55	-	55
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Immunalysis	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	7	-	7	7	-	7

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	76	3	73	77	75	2
Cut-off 25						
Alere iCassette	4	-	4	4	4	-
Alere iCup	3	-	3	3	3	-
Alere iScreen	5	-	5	5	5	-
Alere Triage	3	-	3	3	3	-
Amedica Biotech	1	-	1	1	1	-
Beckman AU	2	-	2	2	2	-
Bio-Rad TOX/See	4	-	4	4	4	-
BMC QuickTox Drug Screen	2	-	2	2	1	1
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	3	-	3	3	3	-
eScreen M-Cup	4	3	1	4	3	1
Germaine Laboratories AimScreen	1	-	1	1	1	-
Immunalysis	2	-	2	2	2	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	2	-	2	2	2	-
MEDTOX Diagnostics	8	-	8	8	8	-
Microgenics DRI	4	-	4	4	4	-
Noble Medical Inc.	2	-	2	2	2	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Roche Integra	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
USDiagnostics Proscreen	1	-	1	1	1	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 25	59	3	56	59	57	2
Cut-off 100						
eScreen M-Cup	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	24	24	-	24	-	24
Cut-off 300						
Alere iCassette	3	3	-	3	-	3
Alere iCup	2	2	-	2	-	2
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	3	3	-	3	-	3
MEDTOX Diagnostics	7	7	-	7	-	7
Microgenics DRI	2	2	-	2	-	2
Redwood Toxicology Reditest	1	1	-	1	-	1
All Cut-off 300	19	19	-	19	-	19

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	32	1	31	32	-	32
Cut-off 300						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
MEDTOX Diagnostics	7	-	7	7	-	7
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	10	-	10	10	-	10
Cut-off 1000						
Alere iCassette	2	-	2	2	-	2
Alere iCup	2	-	2	2	-	2
Alere Triage	3	-	3	3	-	3
Amedica Biotech	2	-	2	2	-	2
Bio-Rad TOX/See	4	-	4	4	-	4
BMC QuickTox Drug Screen	1	-	1	1	-	1
All Cut-off 1000	15	-	15	15	-	15

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-6						Specimen WBG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	400	81.8	19.6	24.0	78	65 - 99	399	256.6	64.6	25.2	246	205 - 308
All Abbott Methods	36	78.1	6.4	8.1	76	62 - 94	37	265.5	31.3	11.8	262	212 - 319
All Arkray Methods	30	99.7	12.1	12.1	104	79 - 120	29	421.4	25.9	6.1	422	337 - 506
All Bayer Methods	87	59.7	3.9	6.6	59	47 - 72	85	189.6	8.4	4.4	189	151 - 228
All Hemocue Methods	54	111.9	5.0	4.4	112	89 - 135	55	278.3	7.3	2.6	278	222 - 334
All Lifescan Methods	45	88.4	6.0	6.8	89	70 - 107	45	290.9	26.7	9.2	296	232 - 350
All Roche Methods	55	79.6	3.0	3.8	80	63 - 96	55	240.0	8.7	3.6	239	192 - 288
Abbott FreeStyle Lite	9	75.1	2.9	3.8	76	60 - 91	9	237.3	7.2	3.0	241	189 - 285
Abbott PreciS. Xtra/Optium	9	89.9	7.3	8.1	88	71 - 108	9	308.7	22.5	7.3	295	246 - 371
Abbott Precision XceedPro	15	76.1	3.1	4.0	76	60 - 92	15	265.7	12.1	4.6	266	212 - 319
Arkray Platinum	27	101.9	9.6	9.4	105	81 - 123	27	421.6	25.5	6.0	422	337 - 506
Bayer Contour	87	59.7	3.9	6.6	59	47 - 72	85	189.6	8.4	4.4	189	151 - 228
HemoCue 201	53	111.8	4.9	4.4	112	89 - 135	54	278.3	7.3	2.6	278	222 - 334
Home Diagnostics True Result	11	54.7	5.5	10.1	55	42 - 67	10	164.0	14.1	8.6	160	131 - 197
Home Diagnostics TrueTrack / TrueBalance	25	239.4	9.1	3.8	241	191 - 288	25	571.2	15.4	2.7	570	456 - 686
Lifescan One Touch Ultra/2/Mini	39	89.7	5.2	5.8	89	71 - 108	39	298.6	16.8	5.6	298	238 - 359
LifeScan OneTouch Verio	5	78.6	2.1	2.6	79	62 - 95	5	230.4	4.7	2.0	232	184 - 277
Medline EvenCare G2 / G3	13	112.9	10.7	9.5	115	90 - 136	14	313.6	24.7	7.9	312	250 - 377
NOVA Biomedical StatStrip	26	71.6	4.3	6.0	73	57 - 86	26	208.2	8.5	4.1	208	166 - 250
PSS Quintet Glucose Monitoring System	23	72.6	8.9	12.3	72	58 - 88	23	259.2	18.7	7.2	255	207 - 312
Roche Accu-Chek Aviva	20	77.4	2.4	3.1	77	61 - 93	21	235.7	5.2	2.2	237	188 - 283
Roche Accu-Chek Inform II	15	80.0	2.3	2.8	80	64 - 96	15	238.0	8.7	3.7	240	190 - 286
Roche Accu-Chek Performa	18	81.2	2.4	3.0	81	64 - 98	18	246.8	8.3	3.4	247	197 - 297
Yellow Springs (YSI)	6	70.0	0.9	1.3	70	56 - 84	6	204.3	4.0	2.0	204	163 - 246
<u>Method</u>	Specimen WBG-8						Specimen WBG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	214.9	38.1	17.7	224	171 - 258	24	352.4	50.4	14.3	360	281 - 423
All Abbott Methods	2	-	-	-	237	189 - 284	2	-	-	-	394	314 - 473
All Bayer Methods	3	-	-	-	152	121 - 183	3	-	-	-	261	211 - 317
All Lifescan Methods	11	240.6	12.3	5.1	240	192 - 289	11	384.5	17.4	4.5	384	307 - 462
All Roche Methods	6	194.0	3.5	1.8	194	155 - 233	6	329.8	8.4	2.5	327	263 - 396
Abbott FreeStyle Lite	1	-	-	-	185	171 - 258	1	-	-	-	329	281 - 423
Abbott PreciS. Xtra/Optium	1	-	-	-	288	Not graded	1	-	-	-	458	Not graded
Bayer Contour	3	-	-	-	152	Not graded	3	-	-	-	261	Not graded
Home Diagnostics TrueTrack / TrueBalance	1	-	-	-	493	Not graded	0	-	-	-	0	[No Laboratory]
Lifescan One Touch Ultra/2/Mini	11	240.6	12.3	5.1	240	192 - 289	11	384.5	17.4	4.5	384	307 - 462
Medline EvenCare G2 / G3	1	-	-	-	252	171 - 258	1	-	-	-	383	281 - 423
Roche Accu-Chek Inform II	1	-	-	-	198	155 - 233	1	-	-	-	334	263 - 396
Roche Accu-Chek Performa	5	193.2	3.3	1.7	192	154 - 232	5	329.0	9.1	2.8	326	263 - 395
Yellow Springs (YSI)	1	-	-	-	166	Not graded	1	-	-	-	286	281 - 423

Whole Blood Glucose (mg/dL) cont'd

Specimen WBG-10						
All Method	24	137.3	23.8	17.3	145	109 - 165
All Abbott Methods	2	-	-	-	152	121 - 182
All Bayer Methods	3	-	-	-	94	74 - 113
All Lifescan Methods	11	151.9	5.2	3.4	152	121 - 183
All Roche Methods	6	128.3	2.7	2.1	128	102 - 154
Abbott FreeStyle Lite	1	-	-	-	118	109 - 165
Abbott Precis. Xtra/Optium	1	-	-	-	185	Not graded
Bayer Contour	3	-	-	-	94	Not graded
Home Diagnostics TrueTrack / TrueBalance	1	-	-	-	355	Not graded
Lifescan One Touch Ultra/2/Mini	11	151.9	5.2	3.4	152	121 - 183
Medline EvenCare G2 / G3	1	-	-	-	162	109 - 165
Roche Accu-Chek Inform II	1	-	-	-	131	102 - 154
Roche Accu-Chek Performa	5	127.8	2.7	2.1	126	102 - 154
Yellow Springs (YSI)	1	-	-	-	108	Not graded

Fructosamine (mmol/L)

Specimen FR-3							Specimen FR-4					
<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	2	-	-	-	0.50	Not graded	2	-	-	-	1.58	Not graded

Fructosamine (μmol/L)

Specimen FR-3							Specimen FR-4					
<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	5	108.3	54.6	50.4	83	63 - 154	5	982.3	270.8	27.6	874	687 - 1277

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	2	-	-	-	236	Not graded	2	-	-	-	166	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	-	-	-	5.0	Not graded	1	-	-	-	7.0	Not graded

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	-	-	-	5.0	Not graded	1	-	-	-	7.0	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	9	197.41	13.08	6.6	193.0	163.8 - 231.0	9	132.81	7.93	6.0	131.0	110.2 - 155.4

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	2	-	-	-	274	Not graded	2	-	-	-	152	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	-	-	-	9.3	Not graded	1	-	-	-	7.4	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	3	-	-	-	100.4	Not graded	3	-	-	-	61.8	Not graded

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	4	-	-	-	180	Not graded	4	-	-	-	132	Not graded

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	7	82.83	7.77	9.4	85.0	46.3 - 119.3	7	47.19	5.43	11.5	50.0	26.4 - 68.0

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-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	2	-	-	-	733	Not graded	2	-	-	-	564	Not graded

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