

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

*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	83	148.7	1.0	0.7	149	144 - 153	84	122.5	0.7	0.6	123	118 - 127
All i-STAT Instruments	83	148.7	1.0	0.7	149	144 - 153	84	122.5	0.7	0.6	123	118 - 127
i-STAT - moderate	13	148.4	0.9	0.6	148	144 - 153	13	122.3	0.5	0.4	122	118 - 127
i-STAT - waived	71	148.7	1.1	0.8	149	144 - 153	71	122.6	0.8	0.6	123	118 - 127
<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	74	168.8	1.8	1.1	169	164 - 173	75	138.1	1.2	0.9	138	134 - 143
All i-STAT Instruments	74	168.8	1.8	1.1	169	164 - 173	75	138.1	1.2	0.9	138	134 - 143
i-STAT - moderate	12	168.0	2.5	1.5	169	164 - 172	12	137.7	0.9	0.6	138	133 - 142
i-STAT - waived	63	168.8	1.8	1.1	169	164 - 173	63	138.2	1.2	0.9	138	134 - 143
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	75	118.3	0.7	0.6	118	114 - 123						
All i-STAT Instruments	75	118.3	0.7	0.6	118	114 - 123						
i-STAT - moderate	12	118.4	0.7	0.6	119	114 - 123						
i-STAT - waived	63	118.3	0.8	0.6	118	114 - 123						

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	85	5.24	0.06	1.1	5.2	4.7 - 5.8	83	2.90	0.00	0.0	2.9	2.4 - 3.4
All i-STAT Instruments	85	5.24	0.06	1.1	5.2	4.7 - 5.8	83	2.90	0.00	0.0	2.9	2.4 - 3.4
i-STAT - moderate	12	5.26	0.05	1.0	5.3	4.7 - 5.8	12	2.90	0.00	0.0	2.9	2.4 - 3.4
i-STAT - waived	73	5.24	0.06	1.1	5.2	4.7 - 5.8	71	2.90	0.00	0.0	2.9	2.4 - 3.4
<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	74	7.29	0.10	1.4	7.3	6.7 - 7.8	75	4.29	0.04	0.9	4.3	3.7 - 4.8
All i-STAT Instruments	74	7.29	0.10	1.4	7.3	6.7 - 7.8	75	4.29	0.04	0.9	4.3	3.7 - 4.8
i-STAT - moderate	11	7.29	0.05	0.7	7.3	6.7 - 7.8	11	4.28	0.04	0.9	4.3	3.7 - 4.8
i-STAT - waived	63	7.29	0.11	1.5	7.3	6.7 - 7.8	64	4.29	0.04	0.9	4.3	3.7 - 4.8
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	75	2.69	0.03	1.2	2.7	2.1 - 3.2						
All i-STAT Instruments	75	2.69	0.03	1.2	2.7	2.1 - 3.2						
i-STAT - moderate	10	2.70	0.00	0.0	2.7	2.2 - 3.2						
i-STAT - waived	64	2.69	0.03	1.2	2.7	2.1 - 3.2						

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	80	118.4	1.9	1.6	118	112 - 125	84	86.6	1.3	1.5	86	82 - 91
All i-STAT Instruments	80	118.4	1.9	1.6	118	112 - 125	84	86.6	1.3	1.5	86	82 - 91
i-STAT - moderate	10	118.3	1.8	1.5	119	112 - 125	11	86.5	0.5	0.6	86	82 - 91
i-STAT - waived	70	118.4	1.9	1.6	118	112 - 125	73	86.6	1.4	1.6	86	82 - 91
	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	71	122.3	2.8	2.3	122	116 - 129	72	108.0	1.8	1.6	108	102 - 114
All i-STAT Instruments	71	122.3	2.8	2.3	122	116 - 129	72	108.0	1.8	1.6	108	102 - 114
i-STAT - moderate	10	123.2	4.4	3.5	123	117 - 130	10	109.1	1.4	1.3	110	103 - 115
i-STAT - waived	62	122.4	2.8	2.3	122	116 - 129	62	107.8	1.8	1.7	108	102 - 114
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	73	81.6	1.1	1.4	81	77 - 86						
All i-STAT Instruments	73	81.6	1.1	1.4	81	77 - 86						
i-STAT - moderate	10	81.3	0.9	1.2	81	77 - 86						
i-STAT - waived	63	81.6	1.2	1.4	81	77 - 86						

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	72	29.9	1.4	4.6	30	23 - 36	74	23.2	0.9	3.7	23	18 - 28
All i-STAT Instruments	72	29.9	1.4	4.6	30	23 - 36	74	23.2	0.9	3.7	23	18 - 28
i-STAT - waived	66	29.9	1.4	4.7	30	23 - 36	67	23.2	0.8	3.6	23	18 - 28
	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	68	45.7	1.9	4.2	46	36 - 55	68	31.3	1.4	4.5	31	25 - 38
All i-STAT Instruments	68	45.7	1.9	4.2	46	36 - 55	68	31.3	1.4	4.5	31	25 - 38
i-STAT - waived	61	45.7	1.8	4.0	46	36 - 55	61	31.4	1.4	4.4	31	25 - 38
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	67	19.9	0.7	3.7	20	15 - 24						
All i-STAT Instruments	67	19.9	0.7	3.7	20	15 - 24						
i-STAT - waived	60	19.9	0.8	3.8	20	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	83	10.6	0.5	4.7	11	8 - 13	84	47.1	1.0	2.1	47	42 - 52
All i-STAT Instruments	83	10.6	0.5	4.7	11	8 - 13	84	47.1	1.0	2.1	47	42 - 52
i-STAT - moderate	10	10.5	0.5	5.0	11	8 - 13	11	47.1	1.4	3.1	47	42 - 52
i-STAT - waived	73	10.6	0.5	4.6	11	8 - 13	73	47.2	0.9	2.0	47	42 - 52
	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	66	5.0	0.0	0.0	5	3 - 7	73	11.1	0.4	3.3	11	9 - 14
All i-STAT Instruments	66	5.0	0.0	0.0	5	3 - 7	73	11.1	0.4	3.3	11	9 - 14
i-STAT - moderate	10	4.6	0.7	15.2	5	2 - 7	10	11.1	0.3	2.8	11	9 - 14
i-STAT - waived	59	5.0	0.0	0.0	5	3 - 7	63	11.1	0.4	3.4	11	9 - 14
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	72	62.4	1.1	1.7	62	56 - 69						
All i-STAT Instruments	72	62.4	1.1	1.7	62	56 - 69						
i-STAT - moderate	10	62.6	1.3	2.2	63	56 - 69						
i-STAT - waived	62	62.4	1.0	1.6	62	56 - 69						

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	83	53.5	2.2	4.1	53	47 - 60	84	247.0	2.7	1.1	247	222 - 272
All i-STAT Instruments	83	53.5	2.2	4.1	53	47 - 60	84	247.0	2.7	1.1	247	222 - 272
i-STAT - moderate	11	54.6	3.4	6.2	53	48 - 61	11	249.3	2.8	1.1	250	224 - 275
i-STAT - waived	68	53.0	1.1	2.0	53	46 - 59	73	246.7	2.5	1.0	246	222 - 272
	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	68	29.0	1.0	3.4	29	23 - 36	67	89.0	1.1	1.3	89	80 - 98
All i-STAT Instruments	68	29.0	1.0	3.4	29	23 - 36	67	89.0	1.1	1.3	89	80 - 98
i-STAT - moderate	10	30.5	2.8	9.2	30	24 - 37	10	91.8	4.1	4.5	90	82 - 101
i-STAT - waived	61	29.0	1.0	3.4	29	23 - 36	60	89.0	1.1	1.3	89	80 - 98
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	72	299.5	3.2	1.1	299	269 - 330						
All i-STAT Instruments	72	299.5	3.2	1.1	299	269 - 330						
i-STAT - moderate	10	300.5	3.7	1.2	300	270 - 331						
i-STAT - waived	61	299.2	2.9	1.0	299	269 - 330						

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	46.4	0.5	1.1	46	43 - 50	22	21.3	0.7	3.4	21	20 - 23
All i-STAT Instruments	21	46.4	0.5	1.1	46	43 - 50	22	21.3	0.7	3.4	21	20 - 23
i-STAT - waived	16	46.3	0.5	1.0	46	43 - 50	17	21.2	0.7	3.1	21	19 - 23
	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	15	65.8	0.7	1.0	66	61 - 70	15	38.7	0.7	1.9	39	36 - 41
All i-STAT Instruments	15	65.8	0.7	1.0	66	61 - 70	15	38.7	0.7	1.9	39	36 - 41
i-STAT - waived	11	65.7	0.8	1.2	66	61 - 70	11	38.6	0.7	1.7	39	36 - 41
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	16.1	0.5	3.2	16	15 - 18						
All i-STAT Instruments	15	16.1	0.5	3.2	16	15 - 18						
i-STAT - waived	11	16.0	0.4	2.8	16	15 - 17						

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	15.75	0.20	1.3	15.6	14.6 - 16.9	22	7.23	0.26	3.6	7.1	6.7 - 7.8
All i-STAT Instruments	21	15.75	0.20	1.3	15.6	14.6 - 16.9	22	7.23	0.26	3.6	7.1	6.7 - 7.8
i-STAT - waived	16	15.73	0.19	1.2	15.6	14.6 - 16.9	17	7.21	0.24	3.4	7.1	6.7 - 7.8
	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	15	22.35	0.22	1.0	22.4	20.7 - 24.0	15	13.15	0.26	2.0	13.3	12.2 - 14.1
All i-STAT Instruments	15	22.35	0.22	1.0	22.4	20.7 - 24.0	15	13.15	0.26	2.0	13.3	12.2 - 14.1
i-STAT - waived	11	22.33	0.25	1.1	22.4	20.7 - 23.9	11	13.15	0.25	1.9	13.3	12.2 - 14.1
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	5.46	0.19	3.5	5.4	5.0 - 5.9						
All i-STAT Instruments	15	5.46	0.19	3.5	5.4	5.0 - 5.9						
i-STAT - waived	11	5.41	0.16	2.9	5.4	5.0 - 5.8						

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	92	0.90	0.05	5.3	0.9	0.6 - 1.3	94	3.10	0.13	4.3	3.1	2.6 - 3.6
All i-STAT Instruments	92	0.90	0.05	5.3	0.9	0.6 - 1.3	94	3.10	0.13	4.3	3.1	2.6 - 3.6
i-STAT - moderate	10	0.91	0.03	3.5	0.9	0.6 - 1.3	10	3.06	0.11	3.5	3.0	2.6 - 3.6
i-STAT - waived	82	0.90	0.05	5.5	0.9	0.6 - 1.3	84	3.10	0.14	4.4	3.1	2.6 - 3.6
Specimen IST-8							Specimen IST-9					
All Method	72	17.89	0.83	4.7	17.9	15.2 - 20.6	74	1.41	0.06	4.3	1.4	1.1 - 1.8
All i-STAT Instruments	72	17.89	0.83	4.7	17.9	15.2 - 20.6	74	1.41	0.06	4.3	1.4	1.1 - 1.8
i-STAT - moderate	8	-	-	-	18.1	15.2 - 20.6	9	-	-	-	1.4	1.1 - 1.8
i-STAT - waived	64	17.86	0.84	4.7	17.8	15.1 - 20.6	65	1.41	0.06	4.3	1.4	1.1 - 1.8
Specimen IST-10												
All Method	73	3.45	0.14	4.0	3.5	2.9 - 4.0						
All i-STAT Instruments	73	3.45	0.14	4.0	3.5	2.9 - 4.0						
i-STAT - moderate	9	-	-	-	3.4	2.9 - 4.0						
i-STAT - waived	64	3.45	0.14	4.0	3.5	2.9 - 4.0						

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	72	0.762	0.014	1.9	0.76	0.71 - 0.81	75	1.310	0.018	1.3	1.31	1.25 - 1.37
All i-STAT Instruments	72	0.762	0.014	1.9	0.76	0.71 - 0.81	75	1.310	0.018	1.3	1.31	1.25 - 1.37
i-STAT - waived	65	0.762	0.014	1.8	0.76	0.72 - 0.81	68	1.311	0.017	1.3	1.31	1.25 - 1.37
Specimen IST-8							Specimen IST-9					
All Method	67	0.681	0.018	2.7	0.69	0.62 - 0.74	65	0.931	0.015	1.6	0.93	0.88 - 0.98
All i-STAT Instruments	67	0.681	0.018	2.7	0.69	0.62 - 0.74	65	0.931	0.015	1.6	0.93	0.88 - 0.98
i-STAT - waived	61	0.681	0.019	2.7	0.69	0.62 - 0.74	59	0.932	0.015	1.6	0.93	0.88 - 0.98
Specimen IST-10												
All Method	66	1.389	0.017	1.2	1.39	1.33 - 1.45						
All i-STAT Instruments	66	1.389	0.017	1.2	1.39	1.33 - 1.45						
i-STAT - waived	60	1.388	0.017	1.3	1.39	1.33 - 1.45						

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	337	2.26	0.30	13.3	2.4	2.0 - 2.5	337	2.99	0.40	13.2	3.2	2.6 - 3.3
All Bromocresol Green Reagents	218	2.46	0.10	4.3	2.5	2.2 - 2.8	219	3.26	0.12	3.7	3.3	2.9 - 3.6
All Bromocresol Purple Reagents	111	1.87	0.13	6.8	1.8	1.6 - 2.1	111	2.46	0.12	4.7	2.5	2.2 - 2.8
Abaxis Piccolo												
Abaxis Piccolo - waived	23	2.03	0.08	4.0	2.0	1.8 - 2.3	23	2.58	0.08	3.1	2.6	2.3 - 2.9
Abaxis Piccolo	13	2.02	0.07	3.4	2.0	1.8 - 2.3	13	2.58	0.07	2.8	2.6	2.3 - 2.9
All Chemistry Instruments	36	2.02	0.08	3.8	2.0	1.8 - 2.3	36	2.58	0.08	2.9	2.6	2.3 - 2.9
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	31	2.48	0.07	2.7	2.5	2.2 - 2.8	32	3.24	0.09	2.7	3.2	2.9 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	2.49	0.06	2.6	2.5	2.2 - 2.8	25	3.28	0.11	3.2	3.2	2.9 - 3.7
Beckman AU												
Beckman AU systems	26	2.43	0.07	2.8	2.4	2.1 - 2.7	26	3.25	0.09	2.6	3.3	2.9 - 3.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.47	0.07	2.7	2.5	2.2 - 2.8	19	3.22	0.04	1.3	3.2	2.8 - 3.6
Roche Integra												
Roche Integra	28	2.52	0.06	2.5	2.5	2.2 - 2.8	28	3.34	0.09	2.6	3.3	3.0 - 3.7
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	1.80	0.05	2.8	1.8	1.6 - 2.0	58	2.41	0.05	2.3	2.4	2.1 - 2.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	2.47	0.07	2.6	2.5	2.2 - 2.8	19	3.31	0.12	3.7	3.3	2.9 - 3.7
All Chemistry Instruments	20	2.47	0.07	2.7	2.5	2.2 - 2.8	20	3.30	0.12	3.7	3.3	2.9 - 3.7
VITROS												
VITROS 250,350,500,700,750,950	33	2.30	0.10	4.3	2.3	2.0 - 2.6	32	3.14	0.11	3.6	3.1	2.8 - 3.5
All Chemistry Instruments	39	2.31	0.10	4.1	2.3	2.0 - 2.6	38	3.16	0.11	3.6	3.2	2.8 - 3.5

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	318	4.09	0.54	13.2	4.3	3.6 - 4.5	319	3.71	0.50	13.5	3.9	3.3 - 4.1
All Bromocresol Green Reagents	222	4.42	0.19	4.2	4.4	3.9 - 4.9	218	4.01	0.15	3.6	4.0	3.6 - 4.5
All Bromocresol Purple Reagents	92	3.29	0.11	3.3	3.3	2.9 - 3.7	92	2.97	0.09	3.1	3.0	2.6 - 3.3
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	3.3	2.9 - 3.7	7	-	-	-	3.0	2.6 - 3.3
Abaxis Piccolo	11	3.29	0.08	2.5	3.3	2.9 - 3.7	11	2.97	0.06	2.2	3.0	2.6 - 3.3
All Chemistry Instruments	17	3.28	0.04	1.3	3.3	2.9 - 3.7	18	2.98	0.05	1.8	3.0	2.6 - 3.3
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	32	4.34	0.12	2.7	4.3	3.9 - 4.8	32	3.95	0.10	2.5	3.9	3.5 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	4.34	0.13	2.9	4.4	3.9 - 4.8	25	3.96	0.11	2.8	4.0	3.5 - 4.4
Beckman AU												
Beckman AU systems	26	4.38	0.11	2.5	4.4	3.9 - 4.9	26	3.97	0.11	2.7	4.0	3.5 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	4.22	0.09	2.2	4.2	3.7 - 4.7	20	3.87	0.09	2.4	3.8	3.4 - 4.3
Roche Integra												
Roche Integra	29	4.47	0.15	3.3	4.4	4.0 - 5.0	28	4.04	0.10	2.5	4.0	3.6 - 4.5
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	3.30	0.08	2.4	3.3	2.9 - 3.7	59	2.97	0.07	2.4	3.0	2.6 - 3.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	4.53	0.16	3.6	4.5	4.0 - 5.0	19	4.09	0.12	2.9	4.1	3.6 - 4.6
All Chemistry Instruments	20	4.53	0.16	3.6	4.5	4.0 - 5.0	20	4.10	0.11	2.8	4.1	3.6 - 4.6
VITROS												
VITROS 250,350,500,700,750,950	33	4.54	0.16	3.6	4.5	4.0 - 5.0	33	4.11	0.18	4.3	4.1	3.6 - 4.6
All Chemistry Instruments	39	4.56	0.17	3.6	4.5	4.1 - 5.1	39	4.12	0.17	4.2	4.1	3.7 - 4.6

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	318	2.57	0.36	14.0	2.7	2.3 - 2.9
All Bromocresol Green Reagents	221	2.79	0.12	4.1	2.8	2.5 - 3.1
All Bromocresol Purple Reagents	92	2.04	0.10	4.7	2.0	1.8 - 2.3
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	2.2	1.9 - 2.4
Abaxis Piccolo	11	2.15	0.05	2.4	2.2	1.9 - 2.4
All Chemistry Instruments	18	2.16	0.05	2.3	2.2	1.9 - 2.4
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	32	2.83	0.10	3.4	2.8	2.5 - 3.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	2.84	0.09	3.1	2.8	2.5 - 3.2
Beckman AU						
Beckman AU systems	26	2.74	0.09	3.3	2.7	2.4 - 3.1
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	2.77	0.07	2.6	2.8	2.4 - 3.1
Roche Integra						
Roche Integra	28	2.84	0.06	2.2	2.8	2.5 - 3.2
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	56	2.01	0.05	2.4	2.0	1.8 - 2.3
Vital Diagnostics						
Vital Diagnostics Envoy 500	19	2.81	0.12	4.4	2.8	2.5 - 3.1
All Chemistry Instruments	20	2.81	0.12	4.2	2.8	2.5 - 3.1
VITROS						
VITROS 250,350,500,700,750,950	33	2.68	0.12	4.3	2.7	2.4 - 3.0
All Chemistry Instruments	39	2.69	0.11	4.2	2.7	2.4 - 3.0

Bilirubin, Direct (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	212	0.31	0.14	44.1	0.3	0.0 - 0.6	211	0.62	0.21	33.7	0.5	0.2 - 1.1
All Alfa Wassermann Reagents	31	0.53	0.06	11.1	0.5	0.4 - 0.7	31	0.94	0.07	7.1	0.9	0.8 - 1.1
All Roche Integra/c111/c301/c501 Reagents	30	0.22	0.04	19.3	0.2	0.1 - 0.4	28	0.50	0.00	0.0	0.5	0.5 - 0.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	0.54	0.06	10.4	0.5	0.4 - 0.7	28	0.95	0.06	6.7	1.0	0.8 - 1.1
Beckman AU												
Beckman AU systems	24	0.37	0.06	14.8	0.4	0.2 - 0.5	24	0.72	0.07	10.0	0.7	0.5 - 0.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	0.40	0.05	13.4	0.4	0.2 - 0.6	15	0.79	0.05	6.6	0.8	0.6 - 0.9
Roche Integra												
Roche Integra	23	0.22	0.04	17.8	0.2	0.1 - 0.3	22	0.50	0.00	0.0	0.5	0.5 - 0.5
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	45	0.22	0.04	17.0	0.2	0.1 - 0.3	45	0.44	0.06	13.2	0.4	0.3 - 0.6
All Chemistry Instruments	47	0.22	0.04	18.2	0.2	0.1 - 0.3	47	0.44	0.06	13.1	0.4	0.3 - 0.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	0.40	0.04	11.2	0.4	0.3 - 0.5	11	0.78	0.06	7.7	0.8	0.6 - 1.0
All Chemistry Instruments	12	0.40	0.04	10.7	0.4	0.3 - 0.5	12	0.78	0.06	7.4	0.8	0.6 - 0.9
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	18	0.16	0.11	73.9	0.2	0.0 - 0.4	18	0.41	0.18	45.1	0.5	0.0 - 0.8
All Chemistry Instruments	23	0.18	0.12	67.6	0.2	0.0 - 0.5	23	0.43	0.17	39.6	0.5	0.0 - 0.8

Bilirubin, Direct (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	212	1.47	0.37	25.2	1.4	0.7 - 2.3	212	1.68	0.40	23.6	1.6	0.8 - 2.5
All Alfa Wassermann Reagents	31	1.98	0.12	6.3	2.0	1.7 - 2.3	31	2.22	0.14	6.4	2.2	1.9 - 2.6
All Roche Integra/c111/c301/c501 Reagents	30	1.17	0.08	6.5	1.2	1.0 - 1.4	30	1.36	0.09	6.3	1.4	1.1 - 1.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	1.99	0.12	6.0	2.0	1.7 - 2.3	28	2.23	0.13	5.9	2.3	1.9 - 2.5
Beckman AU												
Beckman AU systems	24	1.69	0.12	7.1	1.7	1.4 - 2.0	24	1.94	0.14	7.4	2.0	1.6 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	1.85	0.11	5.7	1.9	1.6 - 2.1	15	2.10	0.13	6.2	2.1	1.8 - 2.4
Roche Integra												
Roche Integra	23	1.18	0.07	6.1	1.2	1.0 - 1.4	22	1.38	0.05	3.8	1.4	1.2 - 1.5
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	45	1.10	0.09	8.1	1.1	0.9 - 1.3	45	1.29	0.09	6.9	1.3	1.1 - 1.5
All Chemistry Instruments	47	1.11	0.09	8.1	1.1	0.9 - 1.3	47	1.30	0.09	6.9	1.3	1.1 - 1.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	1.76	0.15	8.5	1.8	1.4 - 2.1	11	2.00	0.18	8.9	2.0	1.6 - 2.4
All Chemistry Instruments	12	1.78	0.16	8.9	1.8	1.4 - 2.2	12	2.04	0.22	10.9	2.0	1.5 - 2.5
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	18	1.36	0.26	19.2	1.4	0.8 - 1.9	18	1.56	0.25	16.4	1.5	1.0 - 2.1
All Chemistry Instruments	23	1.39	0.25	17.9	1.4	0.8 - 1.9	23	1.59	0.25	16.0	1.6	1.0 - 2.1

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	211	1.62	0.38	23.3	1.5	0.8 - 2.4
All Alfa Wassermann Reagents	31	2.13	0.16	7.6	2.2	1.8 - 2.5
All Roche Integra/c111/c301/c501 Reagents	29	1.34	0.09	6.5	1.3	1.1 - 1.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	28	2.14	0.15	6.8	2.2	1.8 - 2.5
Beckman AU						
Beckman AU systems	24	1.93	0.14	7.1	1.9	1.6 - 2.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	2.01	0.11	5.5	2.0	1.7 - 2.3
Roche Integra						
Roche Integra	23	1.32	0.08	5.9	1.3	1.1 - 1.5
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	45	1.30	0.10	7.9	1.3	1.0 - 1.5
All Chemistry Instruments	47	1.30	0.10	7.8	1.3	1.0 - 1.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	11	1.96	0.16	8.0	2.0	1.6 - 2.3
All Chemistry Instruments	12	2.01	0.22	10.7	2.0	1.5 - 2.5
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	17	1.33	0.15	11.2	1.3	1.0 - 1.7
All Chemistry Instruments	22	1.35	0.15	11.4	1.4	1.0 - 1.7

Bilirubin, Total (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	333	0.71	0.15	21.2	0.7	0.3 - 1.2	333	1.36	0.24	17.6	1.3	0.9 - 1.8
All Alfa Wassermann Reagents	55	0.91	0.07	7.7	0.9	0.5 - 1.4	55	1.68	0.10	5.7	1.7	1.2 - 2.1
All Horiba Pentra Reagents	22	0.72	0.07	9.5	0.7	0.3 - 1.2	21	1.40	0.05	3.9	1.4	1.0 - 1.8
All Roche T. bili Special Reagents	28	0.56	0.06	10.1	0.6	0.1 - 1.0	29	1.13	0.07	6.3	1.1	0.7 - 1.6
All Vital Diagnostics Reagents	24	0.63	0.08	12.8	0.6	0.2 - 1.1	24	1.27	0.10	8.2	1.3	0.8 - 1.7
Abaxis Piccolo												
Abaxis Piccolo - waived	22	0.61	0.17	28.1	0.5	0.2 - 1.1	22	1.03	0.26	25.2	0.9	0.6 - 1.5
Abaxis Piccolo	13	0.62	0.17	27.2	0.5	0.2 - 1.1	13	1.04	0.29	27.7	0.9	0.6 - 1.5
All Chemistry Instruments	35	0.61	0.17	27.4	0.5	0.2 - 1.1	35	1.03	0.27	25.7	0.9	0.6 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	51	0.92	0.07	7.5	0.9	0.5 - 1.4	51	1.68	0.10	5.7	1.7	1.2 - 2.1
Beckman AU												
Beckman AU systems	27	0.87	0.05	5.5	0.9	0.4 - 1.3	27	1.54	0.08	4.9	1.6	1.1 - 2.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	0.72	0.07	9.7	0.7	0.3 - 1.2	19	1.40	0.06	4.1	1.4	1.0 - 1.8
Roche Integra-T. bili Special												
Roche Integra	21	0.55	0.06	10.9	0.6	0.1 - 1.0	22	1.12	0.07	6.6	1.1	0.7 - 1.6
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	0.63	0.06	9.1	0.6	0.2 - 1.1	57	1.28	0.08	6.4	1.3	0.8 - 1.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	0.61	0.06	10.3	0.6	0.2 - 1.1	18	1.27	0.06	4.7	1.3	0.8 - 1.7
All Chemistry Instruments	21	0.62	0.07	12.1	0.6	0.2 - 1.1	21	1.27	0.10	7.9	1.3	0.8 - 1.7
VITROS - TBIL												
VITROS 250,350,500,700,750,950	31	0.65	0.08	11.7	0.7	0.2 - 1.1	30	1.35	0.11	8.0	1.3	0.9 - 1.8
All Chemistry Instruments	38	0.64	0.08	12.3	0.7	0.2 - 1.1	37	1.34	0.10	7.8	1.3	0.9 - 1.8

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	315	3.13	0.38	12.1	3.1	2.5 - 3.8	318	3.48	0.42	12.0	3.5	2.7 - 4.2
All Alfa Wassermann Reagents	54	3.65	0.19	5.2	3.7	2.9 - 4.4	55	4.04	0.21	5.2	4.1	3.2 - 4.9
All Horiba Pentra Reagents	22	3.11	0.14	4.6	3.1	2.4 - 3.8	21	3.50	0.12	3.3	3.5	2.7 - 4.2
All Roche T. bili Special Reagents	29	2.69	0.17	6.3	2.7	2.1 - 3.3	28	3.00	0.17	5.8	3.0	2.3 - 3.6
All Vital Diagnostics Reagents	24	2.95	0.18	6.1	2.9	2.3 - 3.6	25	3.32	0.24	7.2	3.3	2.6 - 4.0
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	2.2	1.9 - 3.0	7	-	-	-	2.6	2.2 - 3.4
Abaxis Piccolo	11	2.60	0.40	15.5	2.4	2.0 - 3.2	11	2.87	0.43	14.9	2.6	2.2 - 3.5
All Chemistry Instruments	18	2.48	0.39	15.6	2.3	1.9 - 3.0	18	2.78	0.39	13.9	2.6	2.2 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	50	3.65	0.18	5.0	3.7	2.9 - 4.4	51	4.05	0.20	5.0	4.1	3.2 - 4.9
Beckman AU												
Beckman AU systems	27	3.27	0.13	4.0	3.3	2.6 - 4.0	27	3.70	0.15	4.0	3.7	2.9 - 4.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.11	0.15	4.8	3.1	2.4 - 3.8	20	3.47	0.16	4.6	3.5	2.7 - 4.2
Roche Integra-T. bili Special												
Roche Integra	22	2.64	0.14	5.4	2.6	2.1 - 3.2	21	2.94	0.14	4.6	2.9	2.3 - 3.6
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	3.02	0.15	5.0	3.0	2.4 - 3.7	59	3.34	0.17	5.2	3.4	2.6 - 4.1
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	2.91	0.11	3.7	2.9	2.3 - 3.5	19	3.26	0.15	4.6	3.3	2.6 - 4.0
All Chemistry Instruments	21	2.95	0.18	6.1	2.9	2.3 - 3.6	21	3.30	0.19	5.9	3.3	2.6 - 4.0
VITROS - TBIL												
VITROS 250,350,500,700,750,950	31	3.25	0.18	5.4	3.2	2.5 - 3.9	31	3.61	0.21	5.9	3.6	2.8 - 4.4
All Chemistry Instruments	38	3.23	0.17	5.4	3.2	2.5 - 3.9	38	3.60	0.21	6.0	3.6	2.8 - 4.4

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	317	3.17	0.37	11.8	3.1	2.5 - 3.9
All Alfa Wassermann Reagents	55	3.69	0.21	5.7	3.7	2.9 - 4.5
All Horiba Pentra Reagents	22	3.22	0.15	4.6	3.3	2.5 - 3.9
All Roche T. bili Special Reagents	29	2.74	0.15	5.3	2.7	2.1 - 3.3
All Vital Diagnostics Reagents	24	3.00	0.18	5.9	3.0	2.4 - 3.6
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	2.4	2.1 - 3.3
Abaxis Piccolo	11	2.79	0.27	9.5	2.9	2.2 - 3.4
All Chemistry Instruments	18	2.67	0.28	10.7	2.5	2.1 - 3.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	51	3.70	0.20	5.4	3.7	2.9 - 4.5
Beckman AU						
Beckman AU systems	27	3.48	0.17	4.8	3.5	2.7 - 4.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	3.22	0.15	4.8	3.3	2.5 - 3.9
Roche Integra-T. bili Special						
Roche Integra	22	2.70	0.13	4.7	2.7	2.1 - 3.3
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	59	2.99	0.16	5.4	3.0	2.3 - 3.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	19	2.97	0.15	4.9	3.0	2.3 - 3.6
All Chemistry Instruments	21	3.00	0.17	5.7	3.0	2.4 - 3.6
VITROS - TBIL						
VITROS 250,350,500,700,750,950	30	3.13	0.17	5.4	3.1	2.5 - 3.8
All Chemistry Instruments	37	3.12	0.18	5.7	3.1	2.4 - 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	343	9.24	0.28	3.0	9.3	8.2 - 10.3	343	8.69	0.26	2.9	8.7	7.6 - 9.7
All Arsenazo Methods	183	9.22	0.31	3.3	9.2	8.2 - 10.3	182	8.68	0.28	3.2	8.7	7.6 - 9.7
All CPC Methods	145	9.27	0.23	2.5	9.3	8.2 - 10.3	148	8.70	0.24	2.8	8.7	7.7 - 9.8
Abaxis Piccolo												
Abaxis Piccolo - waived	22	9.46	0.19	2.0	9.4	8.4 - 10.5	22	8.77	0.20	2.3	8.8	7.7 - 9.8
Abaxis Piccolo	14	9.45	0.22	2.3	9.5	8.4 - 10.5	14	8.81	0.18	2.0	8.9	7.8 - 9.9
All Chemistry Instruments	36	9.46	0.20	2.1	9.4	8.4 - 10.5	36	8.79	0.19	2.2	8.8	7.7 - 9.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	54	9.35	0.27	2.9	9.3	8.3 - 10.4	53	8.82	0.17	1.9	8.8	7.8 - 9.9
Beckman AU												
Beckman AU systems	27	9.26	0.17	1.8	9.3	8.2 - 10.3	27	8.84	0.20	2.2	8.9	7.8 - 9.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	9.34	0.31	3.3	9.3	8.3 - 10.4	19	8.66	0.30	3.5	8.6	7.6 - 9.7
Roche Integra												
Roche Integra	29	9.37	0.28	3.0	9.3	8.3 - 10.4	29	8.77	0.23	2.6	8.8	7.7 - 9.8
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	9.18	0.19	2.1	9.3	8.1 - 10.2	57	8.61	0.18	2.1	8.6	7.6 - 9.7
All Chemistry Instruments	59	9.20	0.25	2.7	9.3	8.1 - 10.2	57	8.61	0.18	2.1	8.6	7.6 - 9.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	20	8.91	0.23	2.6	9.0	7.9 - 10.0	20	8.42	0.18	2.1	8.4	7.4 - 9.5
All Chemistry Instruments	21	8.95	0.28	3.2	9.0	7.9 - 10.0	21	8.44	0.19	2.3	8.4	7.4 - 9.5
VITROS												
VITROS 250,350,500,700,750,950	32	9.03	0.17	1.8	9.0	8.0 - 10.1	31	8.43	0.15	1.8	8.4	7.4 - 9.5
All Chemistry Instruments	41	9.04	0.17	1.9	9.0	8.0 - 10.1	40	8.44	0.16	1.9	8.5	7.4 - 9.5

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	324	9.36	0.27	2.9	9.4	8.3 - 10.4	326	11.13	0.30	2.7	11.1	10.1 - 12.2
All Arsenazo Methods	163	9.37	0.28	2.9	9.4	8.3 - 10.4	163	11.14	0.26	2.4	11.1	10.1 - 12.2
All CPC Methods	147	9.35	0.28	3.0	9.3	8.3 - 10.4	147	11.11	0.32	2.9	11.1	10.1 - 12.2
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	9.4	8.4 - 10.5	7	-	-	-	11.3	10.2 - 12.3
Abaxis Piccolo	12	9.45	0.30	3.2	9.6	8.4 - 10.5	12	11.19	0.20	1.8	11.2	10.1 - 12.2
All Chemistry Instruments	19	9.46	0.25	2.6	9.5	8.4 - 10.5	19	11.23	0.20	1.8	11.3	10.2 - 12.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	54	9.44	0.25	2.6	9.4	8.4 - 10.5	53	11.12	0.25	2.3	11.1	10.1 - 12.2
Beckman AU												
Beckman AU systems	27	9.50	0.22	2.3	9.5	8.5 - 10.5	25	11.17	0.13	1.2	11.2	10.1 - 12.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	9.39	0.30	3.1	9.4	8.3 - 10.4	19	11.41	0.43	3.8	11.3	10.4 - 12.5
Roche Integra												
Roche Integra	29	9.47	0.26	2.7	9.5	8.4 - 10.5	29	11.26	0.31	2.7	11.3	10.2 - 12.3
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	9.17	0.22	2.4	9.2	8.1 - 10.2	58	10.95	0.24	2.2	11.0	9.9 - 12.0
All Chemistry Instruments	58	9.16	0.23	2.5	9.2	8.1 - 10.2	59	10.94	0.25	2.3	11.0	9.9 - 12.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	20	9.23	0.19	2.0	9.2	8.2 - 10.3	20	11.03	0.31	2.8	11.1	10.0 - 12.1
All Chemistry Instruments	21	9.24	0.19	2.1	9.2	8.2 - 10.3	21	11.04	0.30	2.7	11.1	10.0 - 12.1
VITROS												
VITROS 250,350,500,700,750,950	32	9.22	0.17	1.9	9.2	8.2 - 10.3	32	11.09	0.17	1.5	11.1	10.0 - 12.1
All Chemistry Instruments	41	9.21	0.17	1.8	9.2	8.2 - 10.3	41	11.10	0.18	1.6	11.1	10.1 - 12.2

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	322	13.42	0.38	2.8	13.4	12.4 - 14.5
All Arsenazo Methods	162	13.38	0.31	2.4	13.4	12.3 - 14.4
All CPC Methods	145	13.48	0.44	3.2	13.5	12.4 - 14.5
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	13.4	12.5 - 14.6
Abaxis Piccolo	12	13.52	0.41	3.0	13.6	12.5 - 14.6
All Chemistry Instruments	19	13.51	0.36	2.6	13.5	12.5 - 14.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	53	13.38	0.31	2.3	13.4	12.3 - 14.4
Beckman AU						
Beckman AU systems	27	13.16	0.30	2.3	13.2	12.1 - 14.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	14.05	0.45	3.2	14.1	13.0 - 15.1
Roche Integra						
Roche Integra	29	13.74	0.36	2.6	13.7	12.7 - 14.8
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	13.34	0.30	2.2	13.4	12.3 - 14.4
All Chemistry Instruments	58	13.32	0.32	2.4	13.4	12.3 - 14.4
Vital Diagnostics						
Vital Diagnostics Envoy 500	20	13.22	0.37	2.8	13.2	12.2 - 14.3
All Chemistry Instruments	21	13.25	0.39	2.9	13.2	12.2 - 14.3
VITROS						
VITROS 250,350,500,700,750,950	32	13.38	0.19	1.4	13.4	12.3 - 14.4
All Chemistry Instruments	40	13.39	0.22	1.7	13.4	12.3 - 14.4

Creatinine (mg/dL)

Technical note: The National Kidney Disease Education Program (NKDEP) has launched the Creatinine Standardization Program to address inter-laboratory variation in creatinine assay calibration and provide more accurate estimates of glomerular filtration rate (GFR). Both efforts are part of a larger NKDEP initiative to help health care providers better identify and treat chronic kidney disease in order to prevent or delay kidney failure and improve patient outcomes. The Creatinine Standardization Program encourages in-vitro diagnostics manufacturers to adjust the calibrations of routine serum creatinine methods to be traceable to the internationally accepted reference method—isotope dilution mass spectrometry (IDMS)—and to work with clinical laboratories to coordinate this calibration adjustment with the introduction of a revised GFR estimating equation appropriate for use with IDMS-traceable creatinine methods. In order to provide appropriate PT grading during this transition, MLE has added ovals to the proficiency test result form to allow participating laboratories to indicate which creatinine calibration method is currently in use. Participants will need to select either “IDMS” for IDMS-traceable calibration method, or “OLD” for traditional calibration method. If you have any question about the traceability of the calibration for the creatinine method in use by your laboratory, contact the reagent and/or calibrator manufacturer for assistance. For more information, and recommendations for clinical laboratories, see <http://www.nkdep.nih.gov/labprofessionals/index.htm>

<u>Standardization/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	343	0.70	0.09	13.0	0.7	0.4 - 1.1	345	0.90	0.11	12.7	0.9	0.5 - 1.2
IDMS Standardization	177	0.68	0.09	13.7	0.7	0.3 - 1.0	178	0.87	0.12	14.1	0.9	0.5 - 1.2
Abaxis Piccolo												
Abaxis Piccolo - waived	18	0.74	0.12	16.1	0.7	0.4 - 1.1	18	1.00	0.12	12.4	1.0	0.7 - 1.3
All Chemistry Instruments	25	0.76	0.11	14.6	0.8	0.4 - 1.1	25	1.01	0.11	11.2	1.0	0.7 - 1.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	0.72	0.07	9.6	0.7	0.4 - 1.1	26	0.90	0.11	12.7	0.9	0.6 - 1.3
Beckman AU												
Beckman AU systems	20	0.70	0.00	0.0	0.7	0.4 - 1.0	21	0.92	0.04	4.4	0.9	0.6 - 1.3
CRSC (single slide)												
VITROS 250,350,500,700,750,950	20	0.60	0.06	9.4	0.6	0.3 - 0.9	20	0.72	0.05	7.3	0.7	0.4 - 1.1
All Chemistry Instruments	27	0.63	0.08	13.0	0.6	0.3 - 1.0	27	0.74	0.07	10.1	0.7	0.4 - 1.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	0.80	0.00	0.0	0.8	0.5 - 1.1	11	0.98	0.04	4.1	1.0	0.6 - 1.3
Roche Integra												
Roche Integra	18	0.62	0.05	8.8	0.6	0.3 - 1.0	18	0.80	0.05	6.1	0.8	0.5 - 1.1
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	0.62	0.15	23.8	0.6	0.3 - 1.0	11	0.81	0.16	20.3	0.8	0.5 - 1.2
Non-IDMS Method	113	0.72	0.09	11.7	0.7	0.4 - 1.1	112	0.93	0.09	9.6	0.9	0.6 - 1.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	0.72	0.08	10.4	0.7	0.4 - 1.1	16	0.88	0.05	6.2	0.9	0.5 - 1.2
Roche Integra												
Roche Integra	11	0.66	0.09	13.9	0.7	0.3 - 1.0	11	0.85	0.09	10.9	0.8	0.5 - 1.2
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	36	0.74	0.08	11.3	0.7	0.4 - 1.1	36	0.94	0.08	8.6	0.9	0.6 - 1.3
All Chemistry Instruments	38	0.73	0.09	11.9	0.7	0.4 - 1.1	38	0.94	0.08	8.4	0.9	0.6 - 1.3

Creatinine (mg/dL)

<u>Standardization/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	327	2.21	0.21	9.3	2.3	1.8 - 2.6	326	3.19	0.23	7.1	3.2	2.7 - 3.7
IDMS Standardization	166	2.16	0.22	10.0	2.2	1.8 - 2.5	164	3.16	0.22	7.0	3.2	2.6 - 3.7
Abaxis Piccolo												
All Chemistry Instruments	11	2.44	0.12	5.0	2.4	2.0 - 2.9	11	3.50	0.13	3.6	3.5	2.9 - 4.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	2.14	0.12	5.7	2.1	1.8 - 2.5	27	3.10	0.34	10.8	3.1	2.6 - 3.6
Beckman AU												
Beckman AU systems	21	2.33	0.06	2.4	2.3	1.9 - 2.7	21	3.29	0.06	1.9	3.3	2.7 - 3.8
CRSC (single slide)												
VITROS 250,350,500,700,750,950	20	1.91	0.12	6.3	1.9	1.6 - 2.3	20	3.08	0.14	4.6	3.1	2.6 - 3.6
All Chemistry Instruments	27	1.94	0.17	8.8	1.9	1.6 - 2.3	27	3.11	0.22	7.1	3.1	2.6 - 3.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	2.32	0.06	2.6	2.3	1.9 - 2.7	11	3.23	0.11	3.4	3.2	2.7 - 3.8
Roche Integra												
Roche Integra	18	2.01	0.11	5.4	2.0	1.7 - 2.4	18	2.91	0.17	5.7	2.9	2.4 - 3.4
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	2.25	0.19	8.3	2.3	1.9 - 2.6	11	3.24	0.16	4.8	3.2	2.7 - 3.8
Non-IDMS Method	109	2.27	0.18	7.9	2.3	1.9 - 2.7	111	3.22	0.24	7.3	3.3	2.7 - 3.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.08	0.08	3.6	2.1	1.7 - 2.4	16	2.96	0.13	4.4	2.9	2.5 - 3.4
Roche Integra												
Roche Integra	11	2.12	0.24	11.3	2.0	1.8 - 2.5	11	3.05	0.33	10.8	3.0	2.5 - 3.6
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	35	2.38	0.08	3.2	2.4	2.0 - 2.8	35	3.38	0.06	1.9	3.4	2.8 - 3.9
All Chemistry Instruments	37	2.38	0.08	3.2	2.4	2.0 - 2.8	37	3.38	0.06	1.8	3.4	2.8 - 3.9

Creatinine (mg/dL)

Specimen CH-10

<u>Standardization/Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	320	4.05	0.23	5.7	4.1	3.4 - 4.7
IDMS Standardization	162	4.05	0.23	5.7	4.1	3.4 - 4.7
Abaxis Piccolo						
All Chemistry Instruments	11	4.22	0.17	3.9	4.2	3.5 - 4.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	27	3.96	0.43	10.8	3.9	3.3 - 4.6
Beckman AU						
Beckman AU systems	21	4.09	0.06	1.5	4.1	3.4 - 4.8
CRSC (single slide)						
VITROS 250,350,500,700,750,950	20	4.26	0.11	2.5	4.3	3.6 - 4.9
All Chemistry Instruments	27	4.28	0.11	2.7	4.3	3.6 - 5.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	3.95	0.12	3.1	3.9	3.3 - 4.6
Roche Integra						
Roche Integra	18	3.77	0.20	5.3	3.8	3.2 - 4.4
Siemens Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	4.11	0.18	4.4	4.1	3.4 - 4.8
Non-IDMS Method	109	4.04	0.23	5.8	4.1	3.4 - 4.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	3.76	0.16	4.2	3.7	3.1 - 4.4
Roche Integra						
Roche Integra	11	3.89	0.36	9.2	3.8	3.3 - 4.5
Siemens Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	35	4.20	0.09	2.2	4.2	3.5 - 4.9
All Chemistry Instruments	37	4.21	0.09	2.2	4.2	3.5 - 4.9

Glucose (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	358	83.8	3.1	3.8	84	75 - 93	360	71.4	3.1	4.4	72	64 - 79
All Alfa Wassermann Reagents	56	85.6	1.6	1.9	85	77 - 95	58	73.4	1.7	2.3	73	66 - 81
All Horiba Pentra Reagents	22	83.2	2.7	3.3	83	74 - 92	21	70.0	3.0	4.2	70	63 - 77
All Roche Integra/c111/c301/c501 Reagents	38	82.7	2.0	2.5	83	74 - 91	37	69.1	1.3	1.9	69	62 - 76
All Vital Diagnostics Reagents	24	84.1	3.2	3.8	84	75 - 93	24	71.6	3.2	4.4	72	64 - 79
Abaxis Piccolo												
Abaxis Piccolo - waived	24	87.4	1.2	1.4	87	78 - 97	24	74.7	1.2	1.7	74	67 - 83
Abaxis Piccolo	13	88.1	1.0	1.1	88	79 - 97	13	75.1	1.7	2.2	75	67 - 83
All Chemistry Instruments	37	87.6	1.2	1.3	87	78 - 97	36	74.7	1.2	1.6	75	67 - 83
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	52	85.8	1.6	1.8	85	77 - 95	54	73.4	1.7	2.3	73	66 - 81
Beckman AU												
Beckman AU systems	27	82.4	1.4	1.7	82	74 - 91	27	69.0	1.4	2.0	69	62 - 76
Cholestech LDX												
Cholestech LDX - waived	11	75.0	3.6	4.8	76	67 - 83	11	64.1	2.9	4.5	65	57 - 71
All Chemistry Instruments	12	75.3	3.6	4.8	76	67 - 83	12	64.0	2.8	4.4	65	57 - 71
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	83.4	2.7	3.2	83	75 - 92	19	70.2	3.0	4.2	70	63 - 78
Roche Integra												
Roche Integra	30	82.6	1.9	2.3	83	74 - 91	30	69.1	1.3	1.9	69	62 - 76
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	84.9	2.2	2.6	85	76 - 94	58	73.3	2.1	2.8	73	65 - 81
All Chemistry Instruments	59	84.9	2.2	2.6	85	76 - 94	59	73.3	2.1	2.8	73	66 - 81
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	84.7	1.9	2.3	84	76 - 94	19	72.3	1.7	2.3	72	65 - 80
All Chemistry Instruments	21	85.0	2.2	2.6	85	76 - 94	21	72.5	2.0	2.8	72	65 - 80
VITROS												
VITROS 250,350,500,700,750,950	33	81.3	2.9	3.5	81	73 - 90	32	69.9	2.2	3.1	70	62 - 77
All Chemistry Instruments	42	80.8	2.8	3.5	81	72 - 89	41	69.7	2.2	3.1	70	62 - 77

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	337	95.8	3.6	3.8	96	86 - 106	333	144.8	4.3	3.0	145	130 - 160
All Alfa Wassermann Reagents	57	96.9	1.8	1.8	97	87 - 107	58	145.9	3.3	2.3	146	131 - 161
All Horiba Pentra Reagents	22	94.1	3.3	3.5	93	84 - 104	22	144.8	4.8	3.3	146	130 - 160
All Roche Integra/c111/c301/c501 Reagents	37	92.5	1.9	2.0	92	83 - 102	37	142.4	3.1	2.2	142	128 - 157
All Vital Diagnostics Reagents	24	96.8	3.2	3.3	97	87 - 107	24	145.3	5.5	3.8	146	130 - 160
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	98	88 - 108	8	-	-	-	147	131 - 161
Abaxis Piccolo	11	98.3	1.8	1.8	98	88 - 109	11	146.4	1.6	1.1	146	131 - 161
All Chemistry Instruments	19	98.2	1.5	1.5	98	88 - 108	19	146.2	1.7	1.1	146	131 - 161
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	53	97.0	1.7	1.7	97	87 - 107	54	146.1	3.2	2.2	146	131 - 161
Beckman AU												
Beckman AU systems	27	92.3	1.8	1.9	92	83 - 102	27	142.1	2.4	1.7	142	127 - 157
Cholestech LDX												
Cholestech LDX - waived	3	-	-	-	89	86 - 106	3	-	-	-	133	130 - 160
All Chemistry Instruments	4	-	-	-	91	81 - 101	4	-	-	-	137	123 - 152
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	94.3	3.3	3.5	93	84 - 104	20	145.4	4.6	3.2	147	130 - 160
Roche Integra												
Roche Integra	30	92.3	1.8	1.9	92	83 - 102	30	142.2	2.7	1.9	142	127 - 157
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	99.1	2.6	2.6	99	89 - 109	57	147.9	3.3	2.2	148	133 - 163
All Chemistry Instruments	57	99.1	2.6	2.6	99	89 - 110	58	148.0	3.3	2.2	148	133 - 163
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	97.2	1.7	1.8	97	87 - 107	19	145.6	4.3	3.0	146	131 - 161
All Chemistry Instruments	20	97.1	1.7	1.7	97	87 - 107	21	146.2	4.7	3.2	146	131 - 161
VITROS												
VITROS 250,350,500,700,750,950	33	97.2	2.9	3.0	97	87 - 107	33	144.6	3.8	2.6	145	130 - 160
All Chemistry Instruments	42	97.0	2.9	3.0	97	87 - 107	42	144.3	3.8	2.7	145	129 - 159

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	332	205.5	6.4	3.1	206	184 - 227
All Alfa Wassermann Reagents	57	207.8	4.8	2.3	208	187 - 229
All Horiba Pentra Reagents	22	208.3	6.1	2.9	210	187 - 230
All Roche Integra/c111/c301/c501 Reagents	36	206.0	3.9	1.9	205	185 - 227
All Vital Diagnostics Reagents	23	205.9	6.7	3.3	205	185 - 227
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	208	185 - 228
Abaxis Piccolo	11	206.5	2.7	1.3	206	185 - 228
All Chemistry Instruments	19	206.6	2.4	1.2	206	185 - 228
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	53	208.3	4.4	2.1	208	187 - 230
Beckman AU						
Beckman AU systems	27	205.7	3.5	1.7	206	185 - 227
Cholestech LDX						
Cholestech LDX - waived	3	-	-	-	178	184 - 227
All Chemistry Instruments	4	-	-	-	193	173 - 212
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	209.0	5.8	2.8	210	188 - 230
Roche Integra						
Roche Integra	30	206.3	4.0	1.9	206	185 - 227
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	56	207.4	4.0	2.0	208	186 - 229
All Chemistry Instruments	57	207.5	4.2	2.0	208	186 - 229
Vital Diagnostics						
Vital Diagnostics Envoy 500	18	206.2	5.6	2.7	206	185 - 227
All Chemistry Instruments	20	207.1	6.4	3.1	207	186 - 228
VITROS						
VITROS 250,350,500,700,750,950	33	199.1	4.9	2.5	198	179 - 219
All Chemistry Instruments	42	198.4	5.1	2.6	198	178 - 219

Iron (mcg/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	116	102.1	5.7	5.6	101	81 - 123	116	145.9	9.7	6.6	144	116 - 176
All Roche Integra/c111/c301/c501												
Reagents	16	102.6	3.1	3.0	102	82 - 124	16	147.4	4.1	2.8	147	117 - 177
Beckman AU												
Beckman AU systems	16	110.5	3.4	3.1	112	88 - 133	16	158.5	4.4	2.8	160	126 - 191
Roche Integra												
Roche Integra	12	102.1	2.9	2.8	102	81 - 123	12	147.2	4.5	3.1	146	117 - 177
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	100.1	2.3	2.3	100	80 - 121	29	141.9	3.0	2.1	141	113 - 171
VITROS												
VITROS 250,350,500,700,750,950	10	110.2	12.8	11.7	109	88 - 133	10	168.7	25.5	15.1	160	134 - 203
All Chemistry Instruments	15	109.5	11.7	10.7	108	87 - 132	14	161.9	9.5	5.9	160	129 - 195
<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	119	218.1	19.3	8.9	212	174 - 262	118	200.1	16.4	8.2	195	160 - 241
All Roche Integra/c111/c301/c501												
Reagents	16	216.6	6.0	2.8	216	173 - 260	15	200.7	6.7	3.4	201	160 - 241
Beckman AU												
Beckman AU systems	16	236.8	5.8	2.5	238	189 - 285	16	218.1	6.0	2.7	219	174 - 262
Roche Integra												
Roche Integra	12	216.3	6.9	3.2	216	173 - 260	12	204.7	15.6	7.6	202	163 - 246
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	209.1	3.7	1.8	209	167 - 251	30	192.3	3.2	1.7	192	153 - 231
VITROS												
VITROS 250,350,500,700,750,950	10	257.8	13.4	5.2	260	206 - 310	10	225.1	24.1	10.7	230	180 - 271
All Chemistry Instruments	15	258.8	13.6	5.3	260	207 - 311	15	228.4	21.4	9.4	231	182 - 275

Iron (mcg/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	118	138.8	8.9	6.4	137	111 - 167
All Roche Integra/c111/c301/c501 Reagents	14	140.2	3.5	2.5	140	112 - 169
Beckman AU						
Beckman AU systems	16	150.7	4.2	2.8	152	120 - 181
Roche Integra						
Roche Integra	12	141.0	6.8	4.8	139	112 - 170
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	30	134.1	2.7	2.0	134	107 - 161
VITROS						
VITROS 250,350,500,700,750,950	10	145.4	14.7	10.1	148	116 - 175
All Chemistry Instruments	15	146.5	13.0	8.9	145	117 - 176

Lactic Acid (mmol/L)**Specimen CH-6**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.80	0.19	6.7	2.8	2.2 - 3.4

Specimen CH-7

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
5	4.04	0.21	5.1	4.0	3.4 - 4.7

Specimen CH-8

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.74	0.44	7.8	5.5	4.4 - 7.1

Specimen CH-9

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
5	5.14	0.40	7.9	5.0	3.9 - 6.4

Specimen CH-10

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	3.10	0.16	5.1	3.1	2.6 - 3.6

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	151	4.25	0.30	7.1	4.2	3.1 - 5.4	151	3.91	0.27	6.9	3.9	2.9 - 4.9
All Alfa Wassermann Reagents	10	3.95	0.11	2.7	4.0	2.9 - 5.0	10	3.69	0.19	5.0	3.6	2.7 - 4.7
All Horiba Pentra Reagents	15	4.03	0.31	7.8	4.1	3.0 - 5.1	15	3.75	0.31	8.4	3.7	2.8 - 4.7
All Roche Integra/c111/c301/c501 Reagents	23	4.18	0.14	3.5	4.2	3.1 - 5.3	23	3.87	0.15	3.9	3.9	2.9 - 4.9
Beckman AU												
Beckman AU systems	15	4.34	0.22	5.0	4.3	3.2 - 5.5	15	3.97	0.23	5.7	3.9	2.9 - 5.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	4.03	0.32	8.1	4.1	3.0 - 5.1	14	3.75	0.33	8.7	3.8	2.8 - 4.7
Roche Integra												
Roche Integra	16	4.16	0.15	3.7	4.2	3.1 - 5.3	16	3.85	0.16	4.1	3.9	2.8 - 4.9
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	28	4.40	0.10	2.3	4.4	3.3 - 5.6	28	4.07	0.15	3.7	4.0	3.0 - 5.1
VITROS												
VITROS 250,350,500,700,750,950	14	4.68	0.15	3.2	4.7	3.5 - 5.9	14	4.28	0.15	3.6	4.3	3.2 - 5.4
All Chemistry Instruments	22	4.69	0.18	3.9	4.7	3.5 - 5.9	22	4.26	0.17	4.0	4.3	3.1 - 5.4

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	149	2.87	0.16	5.5	2.9	2.1 - 3.6	150	2.49	0.14	5.6	2.5	1.8 - 3.2
All Alfa Wassermann Reagents	10	2.69	0.10	3.7	2.7	2.0 - 3.4	10	2.37	0.12	4.9	2.4	1.7 - 3.0
All Horiba Pentra Reagents	15	2.83	0.23	8.0	2.9	2.1 - 3.6	15	2.45	0.21	8.7	2.5	1.8 - 3.1
All Roche Integra/c111/c301/c501 Reagents	23	2.87	0.09	3.1	2.9	2.1 - 3.6	23	2.50	0.08	3.3	2.5	1.8 - 3.2
Beckman AU												
Beckman AU systems	15	2.81	0.18	6.4	2.8	2.1 - 3.6	14	2.42	0.07	2.9	2.4	1.8 - 3.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	2.83	0.23	8.3	2.9	2.1 - 3.6	14	2.45	0.22	9.0	2.5	1.8 - 3.1
Roche Integra												
Roche Integra	16	2.86	0.10	3.3	2.9	2.1 - 3.6	16	2.50	0.09	3.6	2.5	1.8 - 3.2
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	28	2.96	0.10	3.5	3.0	2.2 - 3.7	28	2.51	0.09	3.5	2.5	1.8 - 3.2
VITROS												
VITROS 250,350,500,700,750,950	14	3.02	0.13	4.3	3.0	2.2 - 3.8	14	2.60	0.10	4.0	2.6	1.9 - 3.3
All Chemistry Instruments	22	3.02	0.20	6.5	3.0	2.2 - 3.8	22	2.62	0.15	5.9	2.6	1.9 - 3.3
Specimen CH-10												
All Method	151	2.38	0.17	7.1	2.4	1.7 - 3.0						
All Alfa Wassermann Reagents	10	2.20	0.14	6.4	2.2	1.6 - 2.8						
All Horiba Pentra Reagents	15	2.33	0.17	7.2	2.4	1.7 - 3.0						
All Roche Integra/c111/c301/c501 Reagents	23	2.41	0.14	5.8	2.4	1.8 - 3.1						
Beckman AU												
Beckman AU systems	15	2.40	0.14	5.7	2.4	1.8 - 3.0						
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	2.32	0.17	7.4	2.4	1.7 - 3.0						
Roche Integra												
Roche Integra	16	2.40	0.13	5.3	2.4	1.8 - 3.0						
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	28	2.41	0.09	3.8	2.4	1.8 - 3.1						
VITROS												
VITROS 250,350,500,700,750,950	14	2.56	0.13	5.2	2.6	1.9 - 3.3						
All Chemistry Instruments	22	2.59	0.17	6.5	2.6	1.9 - 3.3						

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	125	5.00	0.20	4.0	5.0	4.4 - 5.6	126	4.70	0.19	4.0	4.7	4.1 - 5.3
All Alfa Wassermann Reagents	17	5.06	0.21	4.1	5.1	4.5 - 5.7	17	4.66	0.18	3.8	4.7	4.1 - 5.2
All Roche Integra/c111/c301/c501 Reagents	19	4.98	0.13	2.5	5.0	4.4 - 5.6	19	4.66	0.12	2.6	4.7	4.1 - 5.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	5.06	0.21	4.1	5.1	4.5 - 5.7	17	4.66	0.18	3.8	4.7	4.1 - 5.2
Beckman AU												
Beckman AU systems	12	4.75	0.16	3.3	4.8	4.2 - 5.3	12	4.43	0.14	3.1	4.5	3.9 - 4.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	5.22	0.14	2.7	5.2	4.6 - 5.8	11	4.99	0.08	1.7	5.0	4.4 - 5.6
Roche Integra												
Roche Integra	13	4.97	0.13	2.6	5.0	4.4 - 5.6	13	4.63	0.12	2.6	4.6	4.1 - 5.2
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	4.96	0.10	2.0	5.0	4.4 - 5.5	24	4.65	0.10	2.1	4.7	4.1 - 5.2
VITROS												
All Chemistry Instruments	13	4.89	0.13	2.7	4.9	4.3 - 5.5	14	4.71	0.10	2.1	4.7	4.2 - 5.3

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	128	3.55	0.27	7.5	3.5	3.1 - 4.0	129	3.02	0.28	9.4	3.0	2.6 - 3.4
All Alfa Wassermann Reagents	17	3.28	0.16	4.8	3.3	2.9 - 3.7	17	2.74	0.16	5.8	2.7	2.4 - 3.1
All Roche Integra/c111/c301/c501 Reagents	19	3.51	0.09	2.7	3.5	3.1 - 3.9	19	2.97	0.09	3.1	3.0	2.6 - 3.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	3.28	0.16	4.8	3.3	2.9 - 3.7	17	2.74	0.16	5.8	2.7	2.4 - 3.1
Beckman AU												
Beckman AU systems	12	3.28	0.08	2.5	3.3	2.9 - 3.7	12	2.78	0.08	3.0	2.8	2.4 - 3.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	4.00	0.13	3.2	4.0	3.5 - 4.5	11	3.50	0.11	3.1	3.5	3.1 - 3.9
Roche Integra												
Roche Integra	13	3.48	0.07	2.1	3.5	3.1 - 3.9	13	2.96	0.10	3.5	3.0	2.6 - 3.3
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	23	3.49	0.11	3.2	3.5	3.1 - 3.9	24	2.93	0.08	2.8	2.9	2.6 - 3.3
VITROS												
All Chemistry Instruments	14	3.83	0.09	2.4	3.8	3.4 - 4.3	14	3.36	0.09	2.8	3.4	3.0 - 3.8

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	128	2.81	0.24	8.5	2.7	2.5 - 3.2
All Alfa Wassermann Reagents	17	2.61	0.21	7.9	2.6	2.3 - 3.0
All Roche Integra/c111/c301/c501 Reagents	18	2.76	0.08	3.1	2.8	2.4 - 3.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	2.61	0.21	7.9	2.6	2.3 - 3.0
Beckman AU						
Beckman AU systems	12	2.58	0.08	3.2	2.6	2.2 - 2.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	3.13	0.08	2.5	3.1	2.7 - 3.5
Roche Integra						
Roche Integra	13	2.75	0.09	3.2	2.8	2.4 - 3.1
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	24	2.69	0.07	2.5	2.7	2.3 - 3.0
VITROS						
All Chemistry Instruments	14	3.17	0.11	3.4	3.2	2.8 - 3.6

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	332	4.44	0.19	4.3	4.4	3.9 - 4.9	332	5.91	0.24	4.0	5.9	5.3 - 6.6
All Alfa Wassermann Reagents	54	4.46	0.12	2.8	4.5	4.0 - 5.0	53	5.97	0.13	2.2	6.0	5.3 - 6.6
All Horiba Pentra Reagents	22	4.40	0.14	3.2	4.4	3.9 - 4.9	21	5.87	0.16	2.6	5.8	5.2 - 6.5
All Roche Integra/c1111/c301/c501 Reagents	36	4.29	0.16	3.8	4.3	3.8 - 4.8	36	5.74	0.19	3.3	5.7	5.1 - 6.4
All Vital Diagnostics Reagents	24	4.40	0.10	2.3	4.4	3.9 - 4.9	24	5.87	0.11	1.9	5.9	5.2 - 6.5
Abaxis Piccolo												
Abaxis Piccolo - waived	24	4.66	0.08	1.8	4.7	4.1 - 5.2	24	6.16	0.11	1.8	6.1	5.5 - 6.8
Abaxis Piccolo	11	4.71	0.13	2.8	4.7	4.2 - 5.2	11	6.18	0.13	2.0	6.2	5.5 - 6.8
All Chemistry Instruments	34	4.67	0.08	1.8	4.7	4.2 - 5.2	35	6.17	0.11	1.8	6.1	5.5 - 6.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	50	4.47	0.11	2.5	4.5	4.0 - 5.0	50	5.97	0.12	2.0	6.0	5.3 - 6.6
Beckman AU												
Beckman AU systems	27	4.34	0.08	1.7	4.3	3.9 - 4.8	27	5.83	0.10	1.7	5.8	5.2 - 6.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	4.40	0.14	3.2	4.4	3.9 - 4.9	19	5.87	0.16	2.7	5.8	5.2 - 6.5
Roche Integra												
Roche Integra	29	4.27	0.16	3.7	4.3	3.8 - 4.7	29	5.70	0.18	3.2	5.7	5.1 - 6.3
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	4.60	0.09	1.9	4.6	4.1 - 5.1	57	6.14	0.10	1.6	6.1	5.5 - 6.8
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	4.39	0.08	1.8	4.4	3.9 - 4.9	19	5.86	0.11	1.8	5.9	5.2 - 6.5
All Chemistry Instruments	20	4.40	0.08	1.9	4.4	3.9 - 4.9	20	5.87	0.11	1.9	5.9	5.2 - 6.5
VITROS												
VITROS 250,350,500,700,750,950	33	4.26	0.18	4.3	4.2	3.8 - 4.7	33	5.61	0.18	3.3	5.6	5.0 - 6.2
All Chemistry Instruments	37	4.23	0.13	3.1	4.2	3.8 - 4.7	39	5.61	0.17	3.1	5.6	5.0 - 6.2

Protein, Total (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	315	7.99	0.33	4.1	8.0	7.1 - 8.8	315	7.20	0.27	3.8	7.2	6.4 - 8.0
All Alfa Wassermann Reagents	54	8.06	0.20	2.5	8.1	7.2 - 8.9	54	7.29	0.15	2.1	7.3	6.5 - 8.1
All Horiba Pentra Reagents	22	7.94	0.24	3.0	7.9	7.1 - 8.8	22	7.15	0.22	3.1	7.1	6.4 - 7.9
All Roche Integra/c111/c301/c501												
Reagents	35	7.75	0.23	3.0	7.7	6.9 - 8.6	36	6.98	0.23	3.3	7.0	6.2 - 7.7
All Vital Diagnostics Reagents	24	7.98	0.21	2.6	8.0	7.1 - 8.8	23	7.14	0.16	2.2	7.1	6.4 - 7.9
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	8.3	7.4 - 9.1	9	-	-	-	7.3	6.6 - 8.2
Abaxis Piccolo	9	-	-	-	8.2	7.4 - 9.1	9	-	-	-	7.5	6.6 - 8.2
All Chemistry Instruments	18	8.26	0.19	2.3	8.2	7.4 - 9.1	17	7.41	0.16	2.2	7.4	6.6 - 8.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	50	8.06	0.20	2.4	8.1	7.2 - 8.9	50	7.31	0.14	2.0	7.3	6.5 - 8.1
Beckman AU												
Beckman AU systems	27	7.91	0.14	1.8	7.9	7.1 - 8.8	27	7.12	0.12	1.7	7.1	6.4 - 7.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	7.94	0.25	3.1	7.9	7.1 - 8.8	20	7.15	0.23	3.2	7.1	6.4 - 7.9
Roche Integra												
Roche Integra	28	7.70	0.22	2.9	7.7	6.9 - 8.5	29	6.93	0.22	3.2	6.9	6.2 - 7.7
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	8.37	0.15	1.8	8.4	7.5 - 9.3	58	7.51	0.13	1.7	7.5	6.7 - 8.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	7.96	0.19	2.3	8.0	7.1 - 8.8	19	7.15	0.16	2.3	7.1	6.4 - 7.9
All Chemistry Instruments	20	7.98	0.20	2.5	8.0	7.1 - 8.8	20	7.16	0.16	2.2	7.2	6.4 - 7.9
VITROS												
VITROS 250,350,500,700,750,950	32	7.56	0.17	2.2	7.6	6.8 - 8.4	31	6.89	0.14	2.0	6.9	6.2 - 7.6

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	313	4.92	0.18	3.7	4.9	4.4 - 5.5
All Alfa Wassermann Reagents	54	4.99	0.15	3.0	5.0	4.4 - 5.5
All Horiba Pentra Reagents	22	4.87	0.15	3.1	4.9	4.3 - 5.4
All Roche Integra/c111/c301/c501 Reagents	35	4.77	0.17	3.5	4.8	4.2 - 5.3
All Vital Diagnostics Reagents	24	4.87	0.13	2.7	4.9	4.3 - 5.4
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	5.1	4.5 - 5.7
Abaxis Piccolo	9	-	-	-	5.1	4.5 - 5.7
All Chemistry Instruments	18	5.10	0.11	2.2	5.1	4.5 - 5.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	51	4.99	0.14	2.9	5.0	4.4 - 5.5
Beckman AU						
Beckman AU systems	27	4.84	0.08	1.7	4.9	4.3 - 5.4
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.87	0.15	3.1	4.9	4.3 - 5.4
Roche Integra						
Roche Integra	29	4.74	0.15	3.2	4.8	4.2 - 5.3
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	5.08	0.10	1.9	5.1	4.5 - 5.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	19	4.84	0.12	2.5	4.9	4.3 - 5.4
All Chemistry Instruments	20	4.86	0.13	2.7	4.9	4.3 - 5.4
VITROS						
VITROS 250,350,500,700,750,950	32	4.86	0.15	3.0	4.9	4.3 - 5.4
All Chemistry Instruments	37	4.84	0.12	2.5	4.8	4.3 - 5.4

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	341	10.0	0.9	9.3	10	7 - 12	341	12.9	1.0	8.1	13	10 - 15
All Alfa Wassermann Reagents	56	9.9	0.8	7.8	10	7 - 12	55	13.0	0.7	5.7	13	10 - 15
All Horiba Pentra Reagents	22	9.7	0.6	5.9	10	7 - 12	22	12.6	0.8	6.3	13	10 - 15
All Roche Integra/c111/c301/c501 Reagents	37	9.7	0.6	5.8	10	7 - 12	37	12.5	0.6	4.8	13	10 - 15
All Vital Diagnostics Reagents	24	11.5	0.8	7.3	12	9 - 14	25	14.4	1.0	6.9	15	12 - 17
Abaxis Piccolo												
Abaxis Piccolo - waived	25	10.2	0.7	7.1	10	8 - 13	24	13.0	0.6	4.2	13	11 - 16
Abaxis Piccolo	12	10.3	0.8	7.4	10	8 - 13	12	12.8	0.9	7.3	13	10 - 15
All Chemistry Instruments	37	10.2	0.7	7.1	10	8 - 13	36	13.0	0.7	5.4	13	10 - 15
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	26	9.8	0.9	8.8	10	7 - 12	25	12.8	0.7	5.4	13	10 - 15
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	10.1	0.7	6.6	10	8 - 13	30	13.1	0.8	6.0	13	11 - 16
Beckman AU												
Beckman AU systems	26	10.0	0.4	4.4	10	8 - 13	26	13.2	0.6	4.8	13	11 - 16
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	9.7	0.6	6.1	10	7 - 12	20	12.6	0.8	6.5	13	10 - 15
Roche Integra												
Roche Integra	29	9.7	0.6	6.1	10	7 - 12	29	12.4	0.6	5.1	12	10 - 15
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	10.3	0.7	7.1	10	8 - 13	57	13.4	0.7	5.4	13	11 - 16
All Chemistry Instruments	58	10.3	0.7	7.0	10	8 - 13	58	13.4	0.7	5.4	13	11 - 16
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	11.7	0.6	5.0	12	9 - 14	19	14.7	0.7	5.0	15	12 - 17
All Chemistry Instruments	20	11.7	0.6	5.0	12	9 - 14	21	14.6	0.9	6.4	15	12 - 17
VITROS												
VITROS 250,350,500,700,750,950	32	8.8	0.4	5.0	9	6 - 11	32	11.5	0.5	4.4	11	9 - 14
All Chemistry Instruments	41	8.7	0.5	5.4	9	6 - 11	41	11.5	0.5	4.4	11	9 - 14

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	323	24.7	1.8	7.3	25	22 - 27	322	30.6	2.3	7.4	31	27 - 34
All Alfa Wassermann Reagents	56	25.2	1.3	5.0	25	22 - 28	56	31.4	1.6	5.0	31	28 - 35
All Horiba Pentra Reagents	22	24.4	0.9	3.5	24	22 - 27	22	30.1	1.0	3.4	30	27 - 33
All Roche Integra/c111/c301/c501 Reagents	36	24.2	0.8	3.1	24	22 - 27	37	30.2	1.0	3.4	30	27 - 33
All Vital Diagnostics Reagents	24	26.8	1.0	3.8	27	24 - 30	24	32.8	1.1	3.5	33	29 - 36
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	24	21 - 27	9	-	-	-	30	27 - 33
Abaxis Piccolo	10	24.0	0.8	3.4	24	21 - 27	10	29.7	1.1	3.6	30	27 - 33
All Chemistry Instruments	19	24.1	0.8	3.5	24	21 - 27	19	29.8	1.0	3.3	30	27 - 33
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	26	25.2	1.0	3.9	25	22 - 28	26	31.4	1.2	3.8	31	28 - 35
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	25.3	1.7	6.7	25	23 - 28	31	31.5	2.1	6.6	31	28 - 35
Beckman AU												
Beckman AU systems	26	25.3	0.9	3.5	25	22 - 28	26	31.5	1.0	3.3	32	28 - 35
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	24.4	0.9	3.6	24	22 - 27	20	30.2	1.1	3.5	30	27 - 33
Roche Integra												
Roche Integra	29	24.3	1.0	4.0	24	22 - 27	29	30.2	1.1	3.8	30	27 - 33
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	25.7	1.0	3.9	26	23 - 28	56	32.0	1.1	3.6	32	29 - 35
All Chemistry Instruments	57	25.7	1.0	3.8	26	23 - 28	57	32.0	1.1	3.6	32	29 - 35
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	27.1	0.8	2.9	27	24 - 30	19	32.9	1.0	3.1	33	29 - 36
All Chemistry Instruments	20	27.0	0.8	2.9	27	24 - 30	20	32.9	1.0	3.1	33	29 - 36
VITROS												
VITROS 250,350,500,700,750,950	31	21.3	0.5	2.2	21	19 - 24	32	26.0	0.5	2.0	26	23 - 29
All Chemistry Instruments	40	21.3	0.5	2.3	21	19 - 24	40	26.0	0.5	2.0	26	23 - 29

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	322	33.3	2.7	8.0	34	30 - 37
All Alfa Wassermann Reagents	57	34.7	1.8	5.3	34	31 - 38
All Horiba Pentra Reagents	22	32.7	1.2	3.7	32	29 - 36
All Roche Integra/c111/c301/c501 Reagents	36	33.2	1.3	3.8	33	30 - 37
All Vital Diagnostics Reagents	24	35.7	1.1	3.0	36	32 - 39
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	32	29 - 35
Abaxis Piccolo	10	31.8	1.1	3.6	32	28 - 35
All Chemistry Instruments	19	32.0	1.2	3.9	32	29 - 35
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	26	34.7	1.4	4.1	34	31 - 38
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	31	34.7	2.1	6.1	34	31 - 38
Beckman AU						
Beckman AU systems	26	34.4	1.2	3.4	35	31 - 38
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	32.6	1.2	3.6	32	29 - 36
Roche Integra						
Roche Integra	29	33.1	1.3	3.9	33	30 - 37
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	55	34.7	1.0	3.0	35	31 - 38
All Chemistry Instruments	56	34.7	1.0	3.0	35	31 - 38
Vital Diagnostics						
Vital Diagnostics Envoy 500	19	35.9	0.9	2.4	36	32 - 40
All Chemistry Instruments	20	35.9	0.9	2.4	36	32 - 40
VITROS						
VITROS 250,350,500,700,750,950	32	27.8	0.7	2.4	28	25 - 31
All Chemistry Instruments	41	27.9	0.7	2.6	28	25 - 31

Uric Acid (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	204	5.60	0.28	5.0	5.6	4.6 - 6.6	207	4.56	0.33	7.2	4.5	3.7 - 5.4
All Alfa Wassermann Reagents	33	6.02	0.19	3.1	6.0	5.0 - 7.1	33	5.15	0.17	3.4	5.2	4.2 - 6.1
All Roche Integra/c111/c301/c501 Reagents	24	5.45	0.18	3.2	5.5	4.5 - 6.4	24	4.37	0.13	3.0	4.4	3.6 - 5.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	6.03	0.19	3.2	6.1	5.0 - 7.1	32	5.15	0.18	3.4	5.2	4.2 - 6.1
Beckman AU												
Beckman AU systems	20	5.70	0.14	2.4	5.7	4.7 - 6.7	20	4.56	0.11	2.4	4.6	3.7 - 5.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	5.41	0.18	3.4	5.4	4.4 - 6.4	15	4.33	0.10	2.4	4.3	3.5 - 5.1
Roche Integra												
Roche Integra	19	5.43	0.18	3.3	5.4	4.5 - 6.4	19	4.35	0.13	3.0	4.4	3.6 - 5.1
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	40	5.55	0.15	2.8	5.5	4.6 - 6.5	40	4.56	0.11	2.4	4.6	3.7 - 5.4
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	5.72	0.19	3.4	5.7	4.7 - 6.7	11	4.55	0.08	1.8	4.5	3.7 - 5.4
All Chemistry Instruments	13	5.68	0.20	3.5	5.7	4.7 - 6.7	13	4.52	0.11	2.4	4.5	3.7 - 5.3
VITROS												
VITROS 250,350,500,700,750,950	22	5.38	0.14	2.7	5.4	4.4 - 6.3	21	4.40	0.12	2.7	4.4	3.6 - 5.2
All Chemistry Instruments	27	5.39	0.14	2.5	5.4	4.4 - 6.4	26	4.42	0.12	2.6	4.4	3.6 - 5.2

Uric Acid (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	204	5.22	0.34	6.5	5.2	4.3 - 6.2	204	7.83	0.30	3.8	7.8	6.5 - 9.2
All Alfa Wassermann Reagents	34	5.79	0.18	3.0	5.8	4.8 - 6.8	33	8.13	0.24	3.0	8.1	6.7 - 9.6
All Roche Integra/c1111/c301/c501 Reagents	24	4.97	0.14	2.8	5.0	4.1 - 5.9	24	7.72	0.25	3.2	7.7	6.4 - 9.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	5.79	0.18	3.1	5.8	4.8 - 6.8	32	8.13	0.24	3.0	8.1	6.7 - 9.6
Beckman AU												
Beckman AU systems	20	5.17	0.13	2.5	5.1	4.2 - 6.1	20	7.95	0.17	2.1	7.9	6.5 - 9.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	4.88	0.09	1.8	4.9	4.0 - 5.8	15	7.61	0.19	2.5	7.6	6.3 - 8.9
Roche Integra												
Roche Integra	19	4.96	0.14	2.9	5.0	4.1 - 5.9	19	7.69	0.26	3.4	7.7	6.3 - 9.1
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	40	5.24	0.16	3.0	5.2	4.3 - 6.2	41	7.89	0.14	1.8	7.9	6.5 - 9.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	11	5.18	0.15	3.0	5.2	4.3 - 6.1	11	8.04	0.20	2.4	8.0	6.6 - 9.5
All Chemistry Instruments	13	5.18	0.19	3.6	5.2	4.3 - 6.1	13	7.98	0.22	2.8	8.0	6.6 - 9.4
VITROS												
VITROS 250,350,500,700,750,950	22	5.15	0.14	2.8	5.1	4.2 - 6.1	22	7.68	0.18	2.4	7.7	6.3 - 9.0
All Chemistry Instruments	27	5.16	0.13	2.6	5.1	4.2 - 6.1	27	7.70	0.17	2.3	7.7	6.3 - 9.1

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	203	11.58	0.43	3.7	11.6	9.6 - 13.6
All Alfa Wassermann Reagents	34	11.81	0.33	2.8	11.9	9.7 - 13.9
All Roche Integra/c111/c301/c501 Reagents	23	11.56	0.35	3.1	11.5	9.5 - 13.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	33	11.82	0.31	2.6	11.9	9.8 - 13.9
Beckman AU						
Beckman AU systems	20	11.91	0.23	1.9	11.8	9.8 - 14.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	11.39	0.26	2.3	11.4	9.4 - 13.4
Roche Integra						
Roche Integra	19	11.49	0.33	2.9	11.5	9.5 - 13.5
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	39	11.57	0.22	1.9	11.6	9.6 - 13.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	11	11.99	0.27	2.3	12.0	9.9 - 14.1
All Chemistry Instruments	13	11.90	0.34	2.8	11.9	9.8 - 14.0
VITROS						
VITROS 250,350,500,700,750,950	22	11.21	0.28	2.5	11.2	9.3 - 13.2
All Chemistry Instruments	27	11.23	0.26	2.3	11.2	9.3 - 13.2

Chloride (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	331	110.5	2.9	2.7	110	104 - 117	330	113.9	3.1	2.7	114	108 - 120
Abaxis Piccolo												
Abaxis Piccolo - waived	22	108.9	1.4	1.3	109	103 - 115	22	111.8	3.0	2.7	112	106 - 118
Abaxis Piccolo	13	108.9	2.3	2.1	109	103 - 115	13	111.3	1.5	1.4	111	105 - 117
All Chemistry Instruments	34	108.7	1.4	1.3	109	103 - 115	34	111.9	2.1	1.9	112	106 - 118
ISE Diluted												
Beckman AU systems	28	110.0	1.2	1.1	110	104 - 116	27	112.3	1.0	0.9	112	106 - 118
Roche Integra	25	111.2	1.3	1.2	111	105 - 117	25	114.2	1.5	1.3	114	108 - 120
Siemens Dimension QuickLyte - Xpand/EXL	35	114.6	1.4	1.3	115	108 - 121	35	118.2	1.6	1.3	118	112 - 125
Vital Diagnostics Envoy 500	14	110.0	2.1	1.9	110	104 - 116	14	115.7	1.7	1.5	116	109 - 122
All Chemistry Instruments	154	111.7	2.9	2.6	111	106 - 118	155	115.0	3.0	2.6	115	109 - 121
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	50	110.9	1.2	1.1	111	105 - 117	50	114.7	1.0	0.9	115	108 - 121
Horiba ABX Pentra 400	13	110.8	3.4	3.1	111	105 - 117	13	117.4	5.7	4.9	116	111 - 124
All Chemistry Instruments	91	110.6	1.9	1.7	111	105 - 117	91	114.4	2.1	1.8	115	108 - 121
VITROS												
VITROS 250,350,500,700,750,950	31	106.3	2.0	1.9	106	101 - 112	31	109.4	2.3	2.1	109	103 - 115
All Chemistry Instruments	38	106.5	1.9	1.8	106	101 - 112	37	109.8	1.9	1.7	110	104 - 116

Chloride (mmol/L)

<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	315	113.1	3.6	3.2	114	107 - 119	314	104.7	2.7	2.6	105	99 - 110
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	112	104 - 116	7	-	-	-	104	98 - 110
Abaxis Piccolo	11	109.5	1.3	1.2	110	103 - 115	11	103.6	2.1	2.0	104	98 - 109
All Chemistry Instruments	18	110.1	1.7	1.6	110	104 - 116	18	104.1	2.0	1.9	104	98 - 110
ISE Diluted												
Beckman AU systems	28	110.3	2.3	2.0	110	104 - 116	27	102.9	1.2	1.2	103	97 - 108
Roche Integra	25	112.6	1.6	1.4	112	107 - 119	24	104.1	1.6	1.6	104	98 - 110
Siemens Dimension QuickLyte - Xpand/EXL	34	115.8	1.5	1.3	116	110 - 122	35	106.1	1.2	1.1	106	100 - 112
Vital Diagnostics Envoy 500	14	116.9	3.0	2.6	117	111 - 123	14	107.9	2.2	2.0	108	102 - 114
All Chemistry Instruments	154	113.6	3.4	3.0	114	107 - 120	153	104.8	2.4	2.3	105	99 - 111
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	51	115.2	1.4	1.2	115	109 - 121	50	106.1	1.1	1.0	106	100 - 112
Horiba ABX Pentra 400	12	118.1	4.3	3.6	118	112 - 124	13	109.4	5.3	4.9	108	103 - 115
All Chemistry Instruments	91	114.9	2.8	2.5	115	109 - 121	92	105.9	2.5	2.4	106	100 - 112
VITROS												
VITROS 250,350,500,700,750,950	31	108.9	2.2	2.1	109	103 - 115	30	101.5	1.7	1.7	102	96 - 107
All Chemistry Instruments	38	109.1	2.1	2.0	109	103 - 115	38	101.6	2.2	2.2	102	96 - 107

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	312	92.3	1.9	2.0	92	87 - 97
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	94	89 - 99
Abaxis Piccolo	11	93.9	1.3	1.4	94	89 - 99
All Chemistry Instruments	18	94.1	1.3	1.4	94	89 - 99
ISE Diluted						
Beckman AU systems	28	92.4	1.2	1.3	92	87 - 97
Roche Integra	25	91.8	1.6	1.7	92	87 - 97
Siemens Dimension QuickLyte - Xpand/EXL	34	92.1	1.0	1.1	92	87 - 97
Vital Diagnostics Envoy 500	14	93.9	1.4	1.4	94	89 - 99
All Chemistry Instruments	153	92.2	1.8	2.0	92	87 - 97
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	50	92.6	1.4	1.5	93	87 - 98
Horiba ABX Pentra 400	13	93.1	2.1	2.3	93	88 - 98
All Chemistry Instruments	91	92.7	1.9	2.0	93	88 - 98
VITROS						
VITROS 250,350,500,700,750,950	30	91.4	1.6	1.7	91	86 - 97
All Chemistry Instruments	37	91.5	1.5	1.6	91	86 - 97

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	322	29.6	2.0	6.8	30	23 - 36	326	31.5	2.2	7.1	32	25 - 38
Enzymatic Reagent												
Abaxis Piccolo - waived	19	30.5	1.2	4.0	30	24 - 37	19	32.4	1.3	4.0	32	25 - 39
Abaxis Piccolo	10	30.8	1.2	4.0	31	24 - 37	10	32.1	1.3	4.0	33	25 - 39
Alfa Wassermann ACE Alera/Axcel	33	30.5	2.9	9.4	31	24 - 37	33	32.5	2.8	8.7	33	26 - 40
Beckman AU systems	28	29.6	1.9	6.3	29	23 - 36	28	31.4	2.3	7.5	31	25 - 38
Horiba ABX Pentra 400	14	29.1	2.0	6.8	30	23 - 35	14	30.7	2.2	7.3	31	24 - 37
Roche Integra	24	29.0	1.2	4.0	29	23 - 35	24	30.7	1.2	3.8	30	24 - 37
Siemens Dimension/AR/ES/RxL/Xpand/EXL	39	30.9	1.4	4.5	31	24 - 38	39	33.1	1.7	5.3	33	26 - 40
All Chemistry Instruments	201	30.0	1.9	6.3	30	24 - 37	203	31.9	2.2	6.8	32	25 - 39
ISE Diluted												
Vital Diagnostics Envoy 500	11	28.3	3.1	11.0	28	22 - 34	13	30.0	2.7	9.0	30	24 - 36
All Chemistry Instruments	33	28.9	2.7	9.3	29	23 - 35	35	31.1	2.8	9.0	31	24 - 38
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	30.3	1.9	6.2	31	24 - 37	15	32.1	2.1	6.4	32	25 - 39
All Chemistry Instruments	34	29.8	1.7	5.9	30	23 - 36	35	31.4	2.2	7.0	32	25 - 38
VITROS												
VITROS 250,350,500,700,750,950	29	27.6	1.6	5.7	28	22 - 34	28	29.5	1.3	4.4	30	23 - 36
All Chemistry Instruments	35	27.7	1.3	4.8	28	22 - 34	35	29.5	1.3	4.4	30	23 - 36

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	311	29.9	2.5	8.5	30	23 - 36	309	25.2	2.3	9.1	25	20 - 31
Enzymatic Reagent												
Abaxis Piccolo - waived	6	-	-	-	31	24 - 37	6	-	-	-	27	20 - 31
Abaxis Piccolo	8	-	-	-	32	24 - 37	8	-	-	-	27	20 - 31
Alfa Wassermann ACE Alera/Axcel	33	30.7	3.1	10.0	31	24 - 37	33	25.9	2.6	10.1	26	20 - 32
Beckman AU systems	28	30.0	2.5	8.2	30	23 - 36	28	25.4	2.1	8.1	25	20 - 31
Horiba ABX Pentra 400	14	29.7	2.1	7.0	30	23 - 36	14	25.2	2.2	8.5	26	20 - 31
Roche Integra	24	28.9	1.3	4.6	29	23 - 35	25	24.3	2.4	9.8	24	19 - 30
Siemens Dimension/AR/ES/RxL/Xpand/EXL	38	31.4	1.8	5.8	32	25 - 38	39	26.6	1.5	5.8	27	21 - 32
All Chemistry Instruments	188	30.4	2.4	7.8	31	24 - 37	188	25.6	2.2	8.7	26	20 - 31
ISE Diluted												
Vital Diagnostics Envoy 500	13	29.5	3.5	11.8	30	23 - 36	13	24.9	2.5	10.2	25	19 - 30
All Chemistry Instruments	35	30.0	3.1	10.4	30	24 - 37	35	25.3	2.6	10.2	25	20 - 31
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	30.2	2.5	8.1	31	24 - 37	15	25.3	2.0	7.8	25	20 - 31
All Chemistry Instruments	35	29.8	2.5	8.3	30	23 - 36	34	25.2	1.7	6.6	25	20 - 31
VITROS												
VITROS 250,350,500,700,750,950	28	27.9	1.4	5.1	28	22 - 34	28	23.3	1.4	6.2	24	18 - 28
All Chemistry Instruments	35	27.9	1.4	5.2	28	22 - 34	35	23.4	1.6	6.8	23	18 - 29

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	309	16.9	1.9	11.3	17	13 - 21
Enzymatic Reagent						
Abaxis Piccolo - waived	6	-	-	-	18	13 - 21
Abaxis Piccolo	8	-	-	-	18	13 - 21
Alfa Wassermann ACE Alera/Axcel	33	17.2	2.4	13.7	18	13 - 21
Beckman AU systems	28	17.1	1.6	9.4	17	13 - 21
Horiba ABX Pentra 400	14	17.4	1.8	10.2	18	13 - 21
Roche Integra	25	16.3	2.2	13.2	16	13 - 20
Siemens Dimension/AR/ES/RxL/Xpand/EXL	38	18.0	1.4	8.0	18	14 - 22
All Chemistry Instruments	186	17.2	1.8	10.7	17	13 - 21
ISE Diluted						
Vital Diagnostics Envoy 500	13	16.0	1.5	9.2	16	12 - 20
All Chemistry Instruments	35	16.7	2.1	12.3	17	13 - 21
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	15	17.3	1.3	7.4	18	13 - 21
All Chemistry Instruments	33	16.9	1.3	7.9	17	13 - 21
VITROS						
VITROS 250,350,500,700,750,950	29	15.5	1.8	11.4	16	12 - 19
All Chemistry Instruments	36	15.7	1.7	11.0	16	12 - 19

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	333	4.99	0.11	2.2	5.0	4.4 - 5.5	340	5.53	0.13	2.4	5.5	5.0 - 6.1
Abaxis Piccolo												
Abaxis Piccolo - waived	22	5.10	0.19	3.8	5.1	4.5 - 5.6	22	5.59	0.17	3.1	5.6	5.0 - 6.1
Abaxis Piccolo	13	5.12	0.26	5.1	5.1	4.6 - 5.7	13	5.62	0.27	4.9	5.6	5.1 - 6.2
All Chemistry Instruments	35	5.10	0.22	4.2	5.1	4.6 - 5.7	35	5.60	0.21	3.8	5.6	5.0 - 6.1
ISE Diluted												
Beckman AU systems	28	4.98	0.06	1.1	5.0	4.4 - 5.5	28	5.50	0.06	1.2	5.5	4.9 - 6.0
Roche Integra	25	5.00	0.04	0.8	5.0	4.5 - 5.5	25	5.51	0.05	0.9	5.5	5.0 - 6.1
Siemens Dimension QuickLyte - Xpand/EXL	36	5.03	0.07	1.3	5.0	4.5 - 5.6	36	5.55	0.07	1.3	5.5	5.0 - 6.1
Vital Diagnostics Envoy 500	12	4.82	0.10	2.1	4.9	4.3 - 5.4	12	5.36	0.07	1.2	5.4	4.8 - 5.9
All Chemistry Instruments	148	4.99	0.08	1.5	5.0	4.4 - 5.5	150	5.50	0.08	1.5	5.5	5.0 - 6.1
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	52	5.09	0.06	1.2	5.1	4.5 - 5.6	52	5.67	0.06	1.1	5.7	5.1 - 6.2
Horiba ABX Pentra 400	14	4.87	0.05	1.0	4.9	4.3 - 5.4	14	5.41	0.07	1.4	5.4	4.9 - 6.0
All Chemistry Instruments	101	5.00	0.13	2.7	5.0	4.5 - 5.5	101	5.54	0.16	2.9	5.6	5.0 - 6.1
VITROS												
VITROS 250,350,500,700,750,950	32	4.97	0.09	1.7	5.0	4.4 - 5.5	32	5.54	0.08	1.4	5.5	5.0 - 6.1
All Chemistry Instruments	42	4.98	0.08	1.7	5.0	4.4 - 5.5	42	5.55	0.08	1.4	5.5	5.0 - 6.1

Potassium (mmol/L)

<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	325	5.60	0.18	3.1	5.6	5.0 - 6.1	324	4.57	0.13	2.9	4.6	4.0 - 5.1
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	5.4	4.9 - 6.0	7	-	-	-	4.4	3.9 - 5.0
Abaxis Piccolo	11	5.46	0.26	4.8	5.4	4.9 - 6.0	11	4.45	0.19	4.2	4.5	3.9 - 5.0
All Chemistry Instruments	18	5.45	0.23	4.2	5.4	4.9 - 6.0	18	4.42	0.21	4.7	4.4	3.9 - 5.0
ISE Diluted												
Beckman AU systems	28	5.50	0.10	1.7	5.5	5.0 - 6.1	25	4.50	0.00	0.0	4.5	4.0 - 5.0
Roche Integra	26	5.56	0.06	1.2	5.6	5.0 - 6.1	25	4.55	0.07	1.4	4.5	4.0 - 5.1
Siemens Dimension QuickLyte - Xpand/EXL	36	5.57	0.06	1.1	5.6	5.0 - 6.1	36	4.54	0.05	1.1	4.5	4.0 - 5.1
Vital Diagnostics Envoy 500	12	5.37	0.14	2.7	5.4	4.8 - 5.9	12	4.35	0.09	2.1	4.3	3.8 - 4.9
All Chemistry Instruments	148	5.54	0.09	1.7	5.5	5.0 - 6.1	149	4.52	0.08	1.8	4.5	4.0 - 5.1
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	53	5.85	0.06	1.0	5.8	5.3 - 6.4	52	4.74	0.06	1.3	4.7	4.2 - 5.3
Horiba ABX Pentra 400	14	5.56	0.06	1.2	5.6	5.0 - 6.1	14	4.59	0.07	1.4	4.6	4.0 - 5.1
All Chemistry Instruments	102	5.69	0.21	3.7	5.8	5.1 - 6.2	102	4.63	0.15	3.3	4.7	4.1 - 5.2
VITROS												
VITROS 250,350,500,700,750,950	32	5.71	0.09	1.6	5.7	5.2 - 6.3	32	4.67	0.07	1.5	4.7	4.1 - 5.2
All Chemistry Instruments	42	5.71	0.09	1.6	5.7	5.2 - 6.3	42	4.68	0.06	1.4	4.7	4.1 - 5.2

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	318	3.00	0.09	3.0	3.0	2.5 - 3.6
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	2.8	2.3 - 3.3
Abaxis Piccolo	11	2.85	0.18	6.4	2.8	2.3 - 3.4
All Chemistry Instruments	18	2.80	0.19	6.9	2.8	2.3 - 3.3
ISE Diluted						
Beckman AU systems	25	3.00	0.00	0.0	3.0	2.5 - 3.5
Roche Integra	26	3.01	0.05	1.7	3.0	2.5 - 3.6
Siemens Dimension QuickLyte - Xpand/EXL	36	2.99	0.05	1.6	3.0	2.4 - 3.5
Vital Diagnostics Envoy 500	12	2.88	0.06	2.0	2.9	2.3 - 3.4
All Chemistry Instruments	150	2.98	0.07	2.3	3.0	2.4 - 3.5
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	52	3.05	0.08	2.5	3.1	2.5 - 3.6
Horiba ABX Pentra 400	14	3.07	0.08	2.7	3.1	2.5 - 3.6
All Chemistry Instruments	99	3.02	0.09	2.9	3.0	2.5 - 3.6
VITROS						
VITROS 250,350,500,700,750,950	32	3.06	0.07	2.2	3.1	2.5 - 3.6
All Chemistry Instruments	43	3.06	0.07	2.3	3.1	2.5 - 3.6

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	337	141.7	2.1	1.5	141	137 - 146	340	146.5	2.6	1.8	146	142 - 151
Abaxis Piccolo												
Abaxis Piccolo - waived	22	144.3	1.8	1.2	144	140 - 149	22	149.6	2.0	1.4	149	145 - 154
Abaxis Piccolo	13	143.8	1.6	1.1	144	139 - 148	13	149.8	1.9	1.2	150	145 - 154
All Chemistry Instruments	35	144.1	1.7	1.2	144	140 - 149	35	149.7	2.0	1.3	150	145 - 154
ISE Diluted												
Beckman AU systems	27	140.0	1.2	0.9	140	136 - 145	28	143.9	1.2	0.9	144	139 - 148
Roche Integra	25	140.2	0.9	0.6	140	136 - 145	25	143.8	1.0	0.7	144	139 - 148
Siemens Dimension QuickLyte - Xpand/EXL	37	142.8	1.6	1.1	143	138 - 147	37	146.5	1.5	1.0	146	142 - 151
Vital Diagnostics Envoy 500	13	140.5	2.3	1.6	141	136 - 145	13	146.2	1.5	1.0	146	142 - 151
All Chemistry Instruments	151	141.0	1.8	1.2	141	137 - 146	153	145.2	1.8	1.2	145	141 - 150
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	51	141.2	1.4	1.0	141	137 - 146	50	146.7	1.1	0.7	147	142 - 151
Horiba ABX Pentra 400	14	140.7	1.7	1.2	140	136 - 145	14	146.8	1.4	1.0	147	142 - 151
All Chemistry Instruments	96	141.0	1.5	1.1	141	137 - 146	97	146.1	1.9	1.3	146	142 - 151
VITROS												
VITROS 250,350,500,700,750,950	32	143.3	2.6	1.8	143	139 - 148	32	149.4	2.2	1.5	149	145 - 154
All Chemistry Instruments	39	143.4	2.5	1.7	143	139 - 148	39	149.6	2.1	1.4	150	145 - 154

Sodium (mmol/L)

<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	322	147.4	3.7	2.5	147	143 - 152	322	137.8	3.0	2.2	138	133 - 142
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	152	147 - 156	7	-	-	-	141	136 - 145
Abaxis Piccolo	11	152.2	3.2	2.1	151	148 - 157	11	140.5	1.9	1.4	140	136 - 145
All Chemistry Instruments	17	151.6	1.2	0.8	152	147 - 156	18	140.9	2.0	1.4	140	136 - 145
ISE Diluted												
Beckman AU systems	28	143.0	1.6	1.1	143	139 - 148	28	134.6	1.2	0.9	135	130 - 139
Roche Integra	26	143.8	1.2	0.8	144	139 - 148	24	134.7	1.0	0.7	135	130 - 139
Siemens Dimension QuickLyte - Xpand/EXL	36	145.7	1.2	0.8	146	141 - 150	37	137.2	1.4	1.0	137	133 - 142
Vital Diagnostics Envoy 500	13	145.1	2.3	1.6	145	141 - 150	13	135.9	1.8	1.3	136	131 - 140
All Chemistry Instruments	151	144.7	2.1	1.4	145	140 - 149	151	136.0	1.9	1.4	136	132 - 141
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	51	149.5	1.2	0.8	149	145 - 154	52	139.1	1.3	0.9	139	135 - 144
Horiba ABX Pentra 400	14	149.9	2.0	1.3	150	145 - 154	14	140.1	1.8	1.3	140	136 - 145
All Chemistry Instruments	99	148.5	2.9	2.0	149	144 - 153	100	138.4	2.4	1.8	139	134 - 143
VITROS												
VITROS 250,350,500,700,750,950	32	152.2	2.5	1.6	152	148 - 157	32	142.2	2.4	1.7	142	138 - 147
All Chemistry Instruments	39	152.3	2.5	1.6	152	148 - 157	39	142.2	2.2	1.6	142	138 - 147

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	321	123.4	2.2	1.8	123	119 - 128
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	125	121 - 130
Abaxis Piccolo	11	125.5	1.5	1.2	126	121 - 130
All Chemistry Instruments	18	125.5	1.3	1.0	126	121 - 130
ISE Diluted						
Beckman AU systems	27	121.9	1.1	0.9	122	117 - 126
Roche Integra	25	121.7	0.8	0.7	122	117 - 126
Siemens Dimension QuickLyte - Xpand/EXL	36	124.8	1.3	1.0	125	120 - 129
Vital Diagnostics Envoy 500	13	121.4	2.3	1.9	121	117 - 126
All Chemistry Instruments	149	122.9	1.8	1.5	123	118 - 127
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	53	122.3	1.5	1.2	122	118 - 127
Horiba ABX Pentra 400	14	124.0	1.1	0.9	124	120 - 128
All Chemistry Instruments	98	122.7	1.6	1.3	123	118 - 127
VITROS						
VITROS 250,350,500,700,750,950	32	126.1	2.2	1.7	126	122 - 131
All Chemistry Instruments	39	126.2	2.1	1.6	126	122 - 131

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	24	182.7	34.7	19.0	195	113 - 253	25	238.1	52.7	22.1	256	132 - 344
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	24	182.7	34.7	19.0	195	113 - 253	25	238.1	52.7	22.1	256	132 - 344
	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	25	326.6	74.2	22.7	351	178 - 476	25	296.8	67.6	22.8	315	161 - 432
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	25	326.6	74.2	22.7	351	178 - 476	25	296.8	67.6	22.8	315	161 - 432
	Specimen CH-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	25	213.2	55.2	25.9	225	102 - 324						
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	25	213.2	55.2	25.9	225	102 - 324						

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	43	172.7	48.7	28.2	158	75 - 271	41	223.2	62.9	28.2	194	97 - 350
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	23	136.4	10.4	7.6	135	109 - 164	22	187.5	8.4	4.5	188	150 - 225
VITROS												
All Chemistry Instruments	10	232.5	48.3	20.8	237	135 - 330	10	315.7	99.2	31.4	333	117 - 515
	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	43	304.1	98.4	32.4	267	107 - 502	43	273.1	77.9	28.5	241	117 - 429
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	23	265.3	9.7	3.7	265	212 - 319	23	238.1	7.9	3.3	237	190 - 286
VITROS												
All Chemistry Instruments	10	414.5	151.7	36.6	483	111 - 718	10	359.0	117.4	32.7	398	124 - 594
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	43	192.0	44.4	23.1	172	103 - 281						
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	23	159.6	7.7	4.8	159	127 - 192						
VITROS												
All Chemistry Instruments	10	243.6	44.8	18.4	249	154 - 334						

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	36	93.9	9.0	9.5	93	75 - 113	36	111.6	9.7	8.7	111	89 - 134
All Roche Integra/c111/c301/c501												
Reagents	15	93.1	4.5	4.8	92	74 - 112	15	110.7	6.9	6.2	110	88 - 133
Beckman AU												
Beckman AU systems	10	94.7	5.8	6.1	94	75 - 114	10	116.7	5.2	4.5	118	93 - 141
Roche Integra												
Roche Integra	12	94.2	4.3	4.5	93	75 - 114	12	111.2	7.6	6.9	111	88 - 134
Specimen CH-8							Specimen CH-9					
All Method	34	136.9	7.7	5.6	137	109 - 165	35	120.7	8.2	6.8	120	96 - 145
All Roche Integra/c111/c301/c501												
Reagents	15	137.1	5.5	4.0	136	109 - 165	15	119.8	7.5	6.2	119	95 - 144
Beckman AU												
Beckman AU systems	10	140.7	5.7	4.0	142	112 - 169	10	125.5	5.7	4.6	128	100 - 151
Roche Integra												
Roche Integra	12	137.6	5.7	4.2	137	110 - 166	12	120.8	7.4	6.1	120	96 - 145
Specimen CH-10												
All Method	35	88.1	8.4	9.6	88	70 - 106						
All Roche Integra/c111/c301/c501												
Reagents	14	86.3	6.0	7.0	87	69 - 104						
Beckman AU												
Beckman AU systems	10	92.1	5.4	5.8	91	73 - 111						
Roche Integra												
Roche Integra	12	87.1	6.1	7.0	87	69 - 105						

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	335	38.5	8.0	20.8	38	30 - 47	335	58.8	8.2	13.9	58	47 - 71
All Horiba Pentra Reagents	22	39.5	1.3	3.2	40	31 - 48	22	62.8	1.7	2.8	63	50 - 76
All Roche Integra/c1111/c301/c501 Reagents	36	35.2	0.9	2.5	35	28 - 43	37	55.9	1.3	2.4	56	44 - 68
All Vital Diagnostics Reagents	25	38.8	2.3	6.0	39	31 - 47	25	62.2	4.0	6.5	63	49 - 75
Abaxis Piccolo												
Abaxis Piccolo - waived	21	38.9	3.3	8.4	39	31 - 47	21	56.3	4.2	7.4	57	45 - 68
Abaxis Piccolo	12	39.3	6.5	16.5	38	31 - 48	12	55.3	4.5	8.1	57	44 - 67
All Chemistry Instruments	32	38.5	3.5	9.2	38	30 - 47	33	55.9	4.2	7.6	57	44 - 68
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	25	26.6	2.3	8.6	27	21 - 32	25	45.9	2.1	4.6	46	36 - 56
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	27.4	2.3	8.3	27	21 - 33	28	46.8	2.2	4.8	47	37 - 57
Beckman AU												
Beckman AU systems	26	32.9	0.8	2.6	33	26 - 40	26	52.6	1.5	2.8	52	42 - 64
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	39.4	1.2	3.0	40	31 - 48	20	62.6	1.7	2.7	63	50 - 76
Roche Integra												
Roche Integra	30	35.0	1.0	3.0	35	27 - 42	30	55.8	1.4	2.6	56	44 - 67
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	47.5	4.4	9.3	50	38 - 57	30	69.4	5.1	7.3	70	55 - 84
Siemens Healthcare ALTi												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	41.3	1.8	4.3	42	33 - 50	29	64.7	2.0	3.1	65	51 - 78
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	39.6	1.8	4.5	40	31 - 48	19	63.6	3.0	4.7	64	50 - 77
All Chemistry Instruments	21	39.4	2.0	5.0	39	31 - 48	21	63.2	3.1	4.9	63	50 - 76
VITROS												
VITROS 250,350,500,700,750,950	33	52.1	3.9	7.5	52	41 - 63	33	67.8	4.1	6.1	68	54 - 82
All Chemistry Instruments	39	52.2	3.8	7.2	52	41 - 63	39	68.4	4.3	6.3	68	54 - 83

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	319	139.4	13.3	9.5	140	111 - 168	319	179.4	16.0	8.9	181	143 - 216
All Horiba Pentra Reagents	22	153.4	2.9	1.9	153	122 - 185	22	197.2	4.1	2.1	197	157 - 237
All Roche Integra/c111/c301/c501 Reagents	36	136.8	2.2	1.6	137	109 - 165	36	177.0	2.6	1.5	177	141 - 213
All Vital Diagnostics Reagents	25	150.5	9.5	6.3	152	120 - 181	25	192.4	10.7	5.6	195	153 - 231
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	128	102 - 155	8	-	-	-	161	129 - 194
Abaxis Piccolo	10	129.4	4.1	3.1	128	103 - 156	10	161.4	5.3	3.3	161	129 - 194
All Chemistry Instruments	18	128.6	4.1	3.2	128	102 - 155	18	161.3	4.4	2.7	161	129 - 194
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	26	120.7	3.9	3.2	121	96 - 145	26	157.8	4.1	2.6	158	126 - 190
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	120.3	3.0	2.5	120	96 - 145	29	157.3	3.2	2.0	157	125 - 189
Beckman AU												
Beckman AU systems	26	127.8	3.1	2.4	127	102 - 154	26	163.7	3.3	2.0	164	130 - 197
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	153.1	2.4	1.6	153	122 - 184	20	196.9	3.8	1.9	197	157 - 237
Roche Integra												
Roche Integra	30	136.1	2.4	1.8	136	108 - 164	29	176.7	2.8	1.6	177	141 - 213
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	28	155.5	5.2	3.3	155	124 - 187	28	196.2	4.4	2.3	198	156 - 236
Siemens Healthcare ALTi												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	28	153.4	3.1	2.0	154	122 - 185	29	195.9	4.1	2.1	196	156 - 236
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	154.1	5.5	3.6	154	123 - 185	19	196.4	6.2	3.2	196	157 - 236
All Chemistry Instruments	20	154.0	5.4	3.5	154	123 - 185	21	195.1	7.6	3.9	196	156 - 235
VITROS												
VITROS 250,350,500,700,750,950	33	144.4	4.3	3.0	143	115 - 174	33	187.2	3.6	1.9	187	149 - 225
All Chemistry Instruments	38	144.1	3.7	2.5	144	115 - 173	39	187.5	3.9	2.1	188	150 - 226

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	317	198.1	18.5	9.4	199	158 - 238
All Horiba Pentra Reagents	22	217.2	4.5	2.1	218	173 - 261
All Roche Integra/c111/c301/c501 Reagents	35	194.9	3.1	1.6	194	155 - 234
All Vital Diagnostics Reagents	25	210.2	12.3	5.9	211	168 - 253
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	174	140 - 211
Abaxis Piccolo	10	176.0	6.3	3.6	177	140 - 212
All Chemistry Instruments	18	175.6	5.9	3.4	176	140 - 211
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	26	175.6	4.3	2.5	176	140 - 211
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	174.4	4.9	2.8	174	139 - 210
Beckman AU						
Beckman AU systems	26	178.3	3.7	2.0	179	142 - 214
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	216.9	4.1	1.9	218	173 - 261
Roche Integra						
Roche Integra	30	194.4	3.9	2.0	194	155 - 234
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	28	213.5	14.4	6.8	216	170 - 257
Siemens Healthcare ALTi						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	29	216.7	4.4	2.0	217	173 - 261
Vital Diagnostics						
Vital Diagnostics Envoy 500	19	214.6	7.5	3.5	213	171 - 258
All Chemistry Instruments	21	212.9	9.7	4.6	212	170 - 256
VITROS						
VITROS 250,350,500,700,750,950	33	215.1	4.5	2.1	215	172 - 259
All Chemistry Instruments	39	215.1	4.6	2.1	215	172 - 259

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	327	41.9	6.5	15.5	41	29 - 55	330	64.0	9.2	14.4	64	44 - 84
All Alfa Wassermann Reagents	54	43.0	2.3	5.3	43	30 - 56	54	66.9	3.3	4.9	67	46 - 88
All Horiba Pentra Reagents	22	46.1	3.0	6.5	46	32 - 60	22	72.1	4.6	6.4	72	50 - 94
All Roche Integra/c111/c301/c501 Reagents	36	40.1	1.4	3.5	40	28 - 53	36	62.9	1.9	3.0	63	44 - 82
All Vital Diagnostics Reagents	25	44.6	3.5	7.8	46	31 - 59	25	66.3	5.4	8.2	67	46 - 87
Abaxis Piccolo												
Abaxis Piccolo - waived	21	33.5	3.6	10.6	33	23 - 44	21	50.0	4.0	8.1	50	35 - 66
Abaxis Piccolo	12	31.6	4.6	14.7	33	22 - 42	12	46.8	6.0	12.9	47	32 - 61
All Chemistry Instruments	33	32.8	4.0	12.3	33	22 - 43	33	48.8	5.0	10.3	49	34 - 64
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	31	42.6	2.0	4.7	43	29 - 56	31	66.5	3.2	4.8	67	46 - 87
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	43.6	2.5	5.8	44	30 - 57	23	67.4	3.5	5.1	67	47 - 88
Beckman AU												
Beckman AU systems	27	38.2	3.0	8.0	38	26 - 50	27	59.9	4.4	7.4	60	41 - 78
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	45.7	2.6	5.8	46	31 - 60	20	71.3	3.8	5.3	71	49 - 93
Roche Integra												
Roche Integra	29	40.1	1.4	3.6	40	28 - 53	29	62.9	2.0	3.2	63	44 - 82
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	52.1	7.3	14.0	51	36 - 68	58	76.0	6.5	8.6	75	53 - 99
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	44.6	3.4	7.6	46	31 - 58	19	67.1	5.2	7.7	68	46 - 88
All Chemistry Instruments	21	45.0	3.5	7.7	46	31 - 59	21	67.2	5.0	7.4	68	47 - 88
VITROS												
VITROS 250,350,500,700,750,950	32	38.0	1.9	5.0	38	26 - 50	32	56.8	2.7	4.8	57	39 - 74
All Chemistry Instruments	39	38.4	2.6	6.7	38	26 - 50	37	56.8	2.6	4.6	58	39 - 74

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	316	168.3	24.7	14.7	173	117 - 219	317	220.3	34.8	15.8	228	154 - 287
All Alfa Wassermann Reagents	54	178.2	8.2	4.6	180	124 - 232	54	235.5	10.9	4.6	238	164 - 307
All Horiba Pentra Reagents	22	193.7	11.1	5.7	190	135 - 252	22	256.6	13.3	5.2	254	179 - 334
All Roche Integra/c111/c301/c501 Reagents	36	169.9	5.2	3.1	170	118 - 221	36	226.7	7.0	3.1	227	158 - 295
All Vital Diagnostics Reagents	25	168.0	12.3	7.3	173	117 - 219	25	218.7	18.3	8.4	224	153 - 285
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	128	85 - 160	8	-	-	-	168	112 - 210
Abaxis Piccolo	10	120.2	9.6	8.0	118	84 - 157	10	157.8	11.8	7.5	158	110 - 206
All Chemistry Instruments	18	122.4	8.3	6.8	121	85 - 160	18	161.2	10.0	6.2	162	112 - 210
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	31	177.9	8.5	4.8	179	124 - 232	31	235.7	10.6	4.5	238	164 - 307
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	178.7	8.0	4.5	181	125 - 233	23	235.2	11.5	4.9	238	164 - 306
Beckman AU												
Beckman AU systems	27	160.9	11.0	6.8	162	112 - 210	27	212.8	14.1	6.6	214	148 - 277
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	191.5	8.2	4.3	189	134 - 249	20	254.0	9.9	3.9	253	177 - 331
Roche Integra												
Roche Integra	29	170.3	5.2	3.1	170	119 - 222	29	227.6	6.8	3.0	228	159 - 296
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	193.9	8.2	4.2	194	135 - 253	57	254.9	9.7	3.8	255	178 - 332
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	172.1	8.6	5.0	173	120 - 224	19	224.8	10.1	4.5	225	157 - 293
All Chemistry Instruments	21	172.0	8.2	4.8	173	120 - 224	21	225.2	9.7	4.3	225	157 - 293
VITROS												
VITROS 250,350,500,700,750,950	33	132.8	7.4	5.6	134	92 - 173	33	162.4	9.0	5.5	163	113 - 212
All Chemistry Instruments	39	133.4	7.9	5.9	136	93 - 174	39	163.2	9.7	5.9	163	114 - 213

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	317	244.8	40.3	16.5	255	171 - 319
All Alfa Wassermann Reagents	54	264.9	12.5	4.7	268	185 - 345
All Horiba Pentra Reagents	22	285.8	15.0	5.3	283	200 - 372
All Roche Integra/c111/c301/c501 Reagents	35	254.0	8.1	3.2	254	177 - 331
All Vital Diagnostics Reagents	25	243.2	18.8	7.7	246	170 - 317
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	186	126 - 236
Abaxis Piccolo	10	177.3	11.9	6.7	179	124 - 231
All Chemistry Instruments	18	180.8	10.6	5.8	183	126 - 236
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	31	265.4	13.3	5.0	268	185 - 346
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	264.2	11.6	4.4	269	184 - 344
Beckman AU						
Beckman AU systems	27	237.2	16.6	7.0	236	166 - 309
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	282.8	11.2	4.0	282	197 - 368
Roche Integra						
Roche Integra	29	255.4	7.8	3.1	255	178 - 332
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	285.6	10.4	3.6	285	199 - 372
Vital Diagnostics						
Vital Diagnostics Envoy 500	19	249.0	11.1	4.4	248	174 - 324
All Chemistry Instruments	21	249.8	10.8	4.3	251	174 - 325
VITROS						
VITROS 250,350,500,700,750,950	33	177.5	8.1	4.6	177	124 - 231
All Chemistry Instruments	39	177.1	8.4	4.7	176	123 - 231

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	333	34.5	8.9	25.7	32	27 - 42	333	53.5	12.2	22.9	49	42 - 65
All Horiba Pentra Reagents	22	31.2	2.6	8.3	32	24 - 38	22	49.1	3.7	7.5	50	39 - 59
All Roche Integra/c111/c301/c501												
Reagents	36	29.5	2.0	6.8	29	23 - 36	36	46.7	2.8	6.1	47	37 - 57
All Vital Diagnostics Reagents	25	30.9	2.8	9.1	31	24 - 38	25	49.8	4.8	9.6	50	39 - 60
Abaxis Piccolo												
Abaxis Piccolo - waived	21	35.3	2.5	7.2	36	28 - 43	20	50.9	3.2	6.2	52	40 - 62
Abaxis Piccolo	12	35.0	2.3	6.4	35	28 - 42	12	50.4	2.7	5.3	50	40 - 61
All Chemistry Instruments	33	35.2	2.4	6.8	36	28 - 43	32	50.7	2.9	5.8	51	40 - 61
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	24	24.1	1.8	7.5	24	19 - 29	25	40.5	2.7	6.6	40	32 - 49
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	23.8	2.5	10.6	23	19 - 29	29	40.2	3.1	7.7	40	32 - 49
Beckman AU												
Beckman AU systems	26	27.5	1.3	4.6	28	22 - 34	26	43.0	1.8	4.1	43	34 - 52
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	31.3	2.6	8.2	32	25 - 38	20	49.2	3.8	7.8	50	39 - 59
Roche Integra												
Roche Integra	29	29.2	2.1	7.1	29	23 - 36	29	46.1	2.8	6.0	45	36 - 56
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	48.1	2.6	5.3	48	38 - 58	57	71.8	2.7	3.7	71	57 - 87
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	31.4	2.7	8.6	31	25 - 38	19	51.3	3.0	5.9	51	41 - 62
All Chemistry Instruments	21	31.2	2.7	8.8	31	24 - 38	20	51.2	3.0	5.9	51	40 - 62
VITROS												
VITROS 250,350,500,700,750,950	33	44.5	2.0	4.5	45	35 - 54	33	68.3	3.3	4.9	68	54 - 82
All Chemistry Instruments	39	44.4	2.0	4.6	45	35 - 54	39	68.5	3.3	4.9	68	54 - 83

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	316	130.2	23.9	18.4	121	104 - 157	318	165.9	28.9	17.4	156	132 - 200
All Horiba Pentra Reagents	22	122.2	8.7	7.1	124	97 - 147	22	156.1	11.3	7.2	158	124 - 188
All Roche Integra/c111/c301/c501 Reagents	36	116.0	6.0	5.2	116	92 - 140	36	149.1	7.9	5.3	149	119 - 179
All Vital Diagnostics Reagents	25	124.8	12.0	9.6	126	99 - 150	24	158.8	10.1	6.4	161	127 - 191
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	118	96 - 144	8	-	-	-	147	120 - 181
Abaxis Piccolo	10	121.1	8.9	7.3	123	96 - 146	10	153.0	9.5	6.2	152	122 - 184
All Chemistry Instruments	18	120.0	7.7	6.4	121	96 - 144	18	150.6	9.2	6.1	150	120 - 181
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	25	109.4	5.3	4.8	110	87 - 132	25	143.0	5.8	4.1	141	114 - 172
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	107.0	6.3	5.9	107	85 - 129	29	140.2	7.7	5.5	140	112 - 169
Beckman AU												
Beckman AU systems	26	106.0	4.1	3.9	107	84 - 128	26	135.1	4.9	3.6	136	108 - 163
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	122.3	8.9	7.3	124	97 - 147	20	156.4	11.5	7.4	158	125 - 188
Roche Integra												
Roche Integra	29	114.9	5.9	5.2	114	91 - 138	29	148.1	7.9	5.4	147	118 - 178
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	164.6	6.0	3.7	163	131 - 198	57	206.9	6.0	2.9	207	165 - 249
Vital Diagnostics												
Vital Diagnostics Envoy 500	19	126.8	5.9	4.7	128	101 - 153	19	161.4	7.4	4.6	162	129 - 194
All Chemistry Instruments	20	126.5	6.0	4.7	127	101 - 152	20	161.1	7.4	4.6	162	128 - 194
VITROS												
VITROS 250,350,500,700,750,950	33	161.3	6.5	4.0	161	129 - 194	33	202.4	8.4	4.2	201	161 - 243
All Chemistry Instruments	39	161.6	6.2	3.8	161	129 - 194	39	202.3	8.3	4.1	202	161 - 243

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	318	172.8	32.5	18.8	160	138 - 208
All Horiba Pentra Reagents	22	161.8	13.0	8.0	163	129 - 195
All Roche Integra/c111/c301/c501 Reagents	35	155.0	8.6	5.6	156	123 - 186
All Vital Diagnostics Reagents	25	162.5	13.8	8.5	166	129 - 195
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	147	123 - 185
Abaxis Piccolo	10	156.6	9.2	5.9	156	125 - 188
All Chemistry Instruments	18	154.1	9.4	6.1	155	123 - 185
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	25	149.4	8.0	5.3	149	119 - 180
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	145.9	9.3	6.4	148	116 - 176
Beckman AU						
Beckman AU systems	26	139.3	6.1	4.4	140	111 - 168
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	162.2	13.2	8.2	163	129 - 195
Roche Integra						
Roche Integra	29	153.8	8.8	5.7	153	123 - 185
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	56	225.0	6.8	3.0	224	179 - 270
Vital Diagnostics						
Vital Diagnostics Envoy 500	19	165.1	8.7	5.3	167	132 - 199
All Chemistry Instruments	20	164.7	8.7	5.3	167	131 - 198
VITROS						
VITROS 250,350,500,700,750,950	33	206.5	7.5	3.6	206	165 - 248
All Chemistry Instruments	39	206.4	7.5	3.6	206	165 - 248

Creatine Kinase (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	148	106.2	12.0	11.3	107	74 - 139	146	189.0	20.3	10.7	191	132 - 246
All Roche Integra/c111/c301/c501												
Reagents	21	120.2	5.5	4.6	120	84 - 157	21	214.1	7.4	3.5	214	149 - 279
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	13	105.7	4.7	4.4	108	73 - 138	13	182.4	7.1	3.9	182	127 - 238
Beckman AU												
Beckman AU systems	17	102.2	4.5	4.4	101	71 - 133	17	183.2	8.2	4.5	182	128 - 239
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	109.9	2.3	2.1	111	76 - 143	11	195.7	4.9	2.5	196	137 - 255
Roche Integra												
Roche Integra	17	119.2	5.0	4.2	120	83 - 155	17	212.4	5.9	2.8	213	148 - 277
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	16	106.9	3.1	2.9	107	74 - 140	16	191.9	4.3	2.3	192	134 - 250
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	105.8	3.3	3.2	106	74 - 138	17	190.0	4.1	2.1	191	133 - 247
VITROS												
VITROS 250,350,500,700,750,950	13	81.8	7.0	8.6	81	57 - 107	13	141.2	12.0	8.5	142	98 - 184
All Chemistry Instruments	16	82.1	6.3	7.7	82	57 - 107	16	141.4	10.8	7.6	143	99 - 184

Creatine Kinase (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	145	300.8	32.7	10.9	306	210 - 392	145	251.2	24.6	9.8	254	175 - 327
All Roche Integra/c111/c301/c501												
Reagents	21	341.2	12.4	3.6	340	238 - 444	21	283.9	11.2	3.9	284	198 - 370
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	13	288.1	13.0	4.5	288	201 - 375	13	240.8	12.5	5.2	239	168 - 314
Beckman AU												
Beckman AU systems	17	295.7	13.6	4.6	295	206 - 385	17	246.4	12.5	5.1	245	172 - 321
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	314.5	7.1	2.3	315	220 - 409	11	260.3	5.8	2.2	258	182 - 339
Roche Integra												
Roche Integra	17	337.6	9.2	2.7	338	236 - 439	17	281.1	9.0	3.2	282	196 - 366
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	16	307.7	6.8	2.2	309	215 - 400	16	255.5	5.3	2.1	256	178 - 333
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	17	305.7	6.9	2.3	308	213 - 398	17	253.6	6.2	2.5	255	177 - 330
VITROS												
VITROS 250,350,500,700,750,950	13	224.8	17.8	7.9	225	157 - 293	13	199.3	15.9	8.0	201	139 - 260
All Chemistry Instruments	16	226.4	16.8	7.4	226	158 - 295	16	200.1	14.4	7.2	202	140 - 261

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	145	119.5	10.7	8.9	120	83 - 156
All Roche Integra/c111/c301/c501 Reagents	20	134.5	6.9	5.1	135	94 - 175
Alfa Wassermann - New Alfa Wassermann ACE Alera/Axcel	13	118.5	5.1	4.3	116	82 - 155
Beckman AU Beckman AU systems	17	114.8	5.9	5.1	113	80 - 150
Horiba ABX Pentra Horiba ABX Pentra 400	11	122.3	3.7	3.0	123	85 - 159
Roche Integra Roche Integra	17	133.1	6.2	4.7	134	93 - 174
Siemens Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL	16	120.1	4.1	3.4	121	84 - 157
Siemens Healthcare CKI Siemens Dimension/AR/ES/RxL/Xpand/EXL	17	118.7	4.7	3.9	121	83 - 155
VITROS VITROS 250,350,500,700,750,950	13	104.5	9.8	9.4	105	73 - 136
All Chemistry Instruments	16	104.8	9.0	8.6	106	73 - 137

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	81	40.3	9.8	24.4	37	20 - 61	81	57.2	13.7	24.0	53	29 - 85
All Roche Integra/c111/c301/c501 Reagents	11	34.8	1.6	4.6	34	27 - 42	11	50.5	1.9	3.7	50	40 - 61
Siemens Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL	14	52.1	1.1	2.1	52	41 - 63	14	72.6	1.2	1.7	73	58 - 88
Specimen CH-8							Specimen CH-9					
All Method	78	107.5	24.1	22.4	102	59 - 156	78	123.3	27.0	21.9	117	69 - 178
All Roche Integra/c111/c301/c501 Reagents	11	96.6	3.4	3.5	96	77 - 116	11	111.7	4.6	4.1	111	89 - 135
Siemens Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL	15	134.4	3.8	2.8	133	107 - 162	15	153.3	4.2	2.7	152	122 - 184
Specimen CH-10												
All Method	78	122.9	26.8	21.8	117	69 - 177						
All Roche Integra/c111/c301/c501 Reagents	11	110.4	6.7	6.0	110	88 - 133						
Siemens Healthcare Siemens Dimension/AR/ES/RxL/Xpand/EXL	15	151.1	3.4	2.2	151	120 - 182						

Amylase (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	94	34.5	4.9	14.2	35	24 - 45	95	46.5	8.4	18.1	49	32 - 61
All Roche Integra/c111/c301/c501												
Reagents	16	38.3	1.1	2.8	38	26 - 50	16	52.8	1.6	3.1	53	36 - 69
Beckman AU												
Beckman AU systems	14	26.3	1.4	5.5	26	18 - 35	14	36.3	2.1	5.9	36	25 - 48
Roche Integra												
Roche Integra	14	38.3	1.1	2.8	38	26 - 50	14	52.8	1.7	3.3	53	36 - 69
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	35.1	1.0	2.9	35	24 - 46	18	48.7	1.6	3.3	49	34 - 64
VITROS												
VITROS 250,350,500,700,750,950	11	30.0	0.0	0.0	30	21 - 39	12	33.8	3.6	10.8	34	23 - 44
All Chemistry Instruments	13	30.0	0.0	0.0	30	21 - 39	14	33.4	3.5	10.3	33	23 - 44
<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	91	87.2	14.3	16.4	93	61 - 114	91	101.6	19.3	19.0	108	71 - 133
All Roche Integra/c111/c301/c501												
Reagents	16	93.6	2.6	2.8	94	65 - 122	16	107.0	2.6	2.4	107	74 - 140
Beckman AU												
Beckman AU systems	14	71.3	4.0	5.6	71	49 - 93	14	86.9	5.4	6.2	87	60 - 114
Roche Integra												
Roche Integra	14	93.6	2.7	2.9	94	65 - 122	14	107.0	2.6	2.5	107	74 - 140
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	96.5	2.0	2.0	97	67 - 126	18	117.8	2.1	1.8	118	82 - 154
VITROS												
VITROS 250,350,500,700,750,950	12	64.1	3.5	5.4	64	44 - 84	12	65.7	4.1	6.3	66	45 - 86
All Chemistry Instruments	14	63.9	3.6	5.6	64	44 - 84	14	65.4	3.9	5.9	65	45 - 86

Amylase (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	91	102.8	24.5	23.8	108	71 - 134
All Roche Integra/c111/c301/c501 Reagents	16	104.6	3.7	3.5	105	73 - 137
Beckman AU						
Beckman AU systems	14	91.9	5.8	6.3	91	64 - 120
Roche Integra						
Roche Integra	14	105.3	2.5	2.4	105	73 - 137
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	18	127.3	1.9	1.5	127	89 - 166
VITROS						
VITROS 250,350,500,700,750,950	12	54.2	2.1	3.8	55	37 - 71
All Chemistry Instruments	14	53.4	2.9	5.5	54	37 - 70

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	93	120.7	12.9	10.7	126	96 - 145	93	154.8	16.9	10.9	161	123 - 186
All Alfa Wassermann Reagents	11	99.3	2.8	2.8	98	79 - 120	11	126.5	4.4	3.5	129	101 - 152
All Roche Integra/c111/c301/c501 Reagents	18	133.6	3.8	2.9	133	106 - 161	17	168.4	3.1	1.9	168	134 - 203
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	99.3	2.8	2.8	98	79 - 120	11	126.5	4.4	3.5	129	101 - 152
Beckman AU												
Beckman AU systems	11	113.5	5.8	5.1	112	90 - 137	11	144.7	7.2	5.0	144	115 - 174
Roche Integra												
Roche Integra	14	134.7	3.6	2.6	135	107 - 162	14	170.4	5.0	2.9	169	136 - 205
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	124.2	5.1	4.1	124	99 - 150	11	162.0	5.9	3.6	161	129 - 195
VITROS												
All Chemistry Instruments	12	450.3	12.3	2.7	454	360 - 541	12	568.2	12.5	2.2	574	454 - 682
<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	93	338.1	37.1	11.0	358	270 - 406	93	452.8	52.1	11.5	485	362 - 544
All Alfa Wassermann Reagents	11	269.8	7.6	2.8	270	215 - 324	11	356.9	9.3	2.6	357	285 - 429
All Roche Integra/c111/c301/c501 Reagents	17	369.1	5.3	1.4	368	295 - 443	17	495.0	7.5	1.5	494	396 - 594
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	269.8	7.6	2.8	270	215 - 324	11	356.9	9.3	2.6	357	285 - 429
Beckman AU												
Beckman AU systems	11	320.6	15.4	4.8	322	256 - 385	11	431.9	19.4	4.5	432	345 - 519
Roche Integra												
Roche Integra	14	371.2	8.2	2.2	371	296 - 446	14	498.5	14.0	2.8	496	398 - 599
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	361.6	10.4	2.9	360	289 - 434	11	488.6	13.3	2.7	489	390 - 587
VITROS												
All Chemistry Instruments	12	1168.8	22.7	1.9	1167	935 - 1403	12	1658.4	40.4	2.4	1652	1326 - 1991

Lactate Dehydrogenase (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	93	533.9	66.1	12.4	570	427 - 641
All Alfa Wassermann Reagents	11	426.1	12.0	2.8	432	340 - 512
All Roche Integra/c111/c301/c501 Reagents	16	587.4	15.4	2.6	583	469 - 705
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	426.1	12.0	2.8	432	340 - 512
Beckman AU						
Beckman AU systems	11	508.9	23.4	4.6	509	407 - 611
Roche Integra						
Roche Integra	14	595.7	25.4	4.3	591	476 - 715
Siemens Healthcare LDI						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	582.5	18.9	3.3	587	466 - 700
VITROS						
All Chemistry Instruments	11	2130.2	97.6	4.6	2143	1704 - 2557

Lipase (IU/L)

Specimen CH-6

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	35.5	3.9	10.9	38	24 - 47
All Roche Integra/c111/c301/c501 Reagents	12	35.9	1.8	5.0	36	25 - 47
Roche Integra						
Roche Integra	10	36.4	1.5	4.1	37	25 - 48
Siemens Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	129.8	7.1	5.5	130	90 - 169
VITROS						
All Chemistry Instruments	11	511.7	20.6	4.0	512	358 - 666

Specimen CH-7

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
37	56.7	6.5	11.5	62	39 - 74
12	58.2	3.0	5.2	58	40 - 76
10	59.0	2.5	4.2	59	41 - 77
11	210.8	10.0	4.7	211	147 - 275
11	838.4	22.7	2.7	839	586 - 1090

Lipase (IU/L)

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	37	80.2	11.5	14.3	90	56 - 105	37	65.1	7.3	11.2	70	45 - 85
All Roche Integra/c111/c301/c501 Reagents	12	83.3	5.0	6.0	84	58 - 109	12	67.6	3.9	5.8	69	47 - 88
Roche Integra												
Roche Integra	10	84.7	4.3	5.0	86	59 - 111	10	68.8	2.9	4.3	70	48 - 90
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	305.8	15.1	4.9	304	214 - 398	11	245.9	13.1	5.3	244	172 - 320
VITROS												
All Chemistry Instruments	11	1236.8	28.1	2.3	1235	865 - 1608	11	967.6	30.1	3.1	967	677 - 1258
Specimen CH-10												
All Method	36	27.8	4.2	15.2	30	19 - 37						
All Roche Integra/c111/c301/c501 Reagents	11	28.5	1.1	4.0	29	19 - 38						
Roche Integra												
Roche Integra	10	28.7	1.1	3.7	29	20 - 38						
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	103.5	6.1	5.9	103	72 - 135						
VITROS												
All Chemistry Instruments	11	336.2	97.3	28.9	362	235 - 438						

Alpha-fetoprotein (AFP) (ng/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	5	83.08	6.60	7.9	81.3	63.2 - 102.9	5	161.48	9.46	5.9	157.5	133.1 - 189.9
Specimen CH-8							Specimen CH-9					
All Method	5	271.58	11.50	4.2	266.3	237.0 - 306.1	5	247.14	30.12	12.2	234.7	156.7 - 337.6
Specimen CH-10												
All Method	5	109.30	5.55	5.1	108.2	92.6 - 126.0						

Cortisol (mcg/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	12.90	1.47	11.4	13.1	9.6 - 16.2	16	20.61	2.96	14.4	20.8	15.4 - 25.8
	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	16	30.41	4.57	15.0	30.8	22.8 - 38.1	16	25.24	3.64	14.4	25.7	18.9 - 31.6
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	11.96	1.49	12.5	12.0	8.9 - 15.0						

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	30	49.76	5.91	11.9	47.9	32.0 - 67.5	30	48.84	4.86	10.0	47.2	34.2 - 63.5
	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	30	47.48	3.85	8.1	46.3	35.9 - 59.1	30	47.07	3.61	7.7	46.0	36.2 - 58.0
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	30	46.74	4.62	9.9	45.3	32.8 - 60.7						

T Uptake (uptake units)

<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	1	-	-	-	0.55	Not graded	1	-	-	-	0.41	Not graded
<u>Method</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	1	-	-	-	0.20	Not graded	1	-	-	-	0.30	Not graded
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	0.62	Not graded						

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	1.15	0.25	21.9	1.2	0.3 - 2.0	39	1.61	0.34	21.2	1.8	0.5 - 2.7
All TOSOH Instruments	10	3.76	0.38	10.0	3.7	2.6 - 4.9	10	4.90	0.47	9.7	4.8	3.4 - 6.4
Beckman ACCESS / 2 / Dxl	14	1.27	0.20	15.6	1.3	0.6 - 1.9	13	1.78	0.13	7.2	1.8	1.4 - 2.2
<u>Method</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	39	2.05	0.52	25.6	2.2	0.4 - 3.7	39	1.71	0.41	23.7	1.8	0.4 - 3.0
All TOSOH Instruments	10	6.12	0.56	9.1	6.1	4.4 - 7.8	10	5.20	0.52	9.9	5.1	3.6 - 6.8
Beckman ACCESS / 2 / Dxl	14	2.26	0.56	24.9	2.4	0.5 - 4.0	14	1.91	0.36	18.9	1.9	0.8 - 3.0
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	38	0.96	0.39	40.9	1.0	0.0 - 2.2						
All TOSOH Instruments	10	3.21	0.27	8.4	3.2	2.4 - 4.1						
Beckman ACCESS / 2 / Dxl	13	1.02	0.25	24.3	1.0	0.2 - 1.8						

Free T₃ (pg/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	34	3.86	0.61	15.8	4.0	2.0 - 5.7	34	5.19	0.80	15.4	5.3	2.8 - 7.6
All TOSOH Instruments	11	7.27	0.38	5.2	7.2	6.1 - 8.5	11	10.66	0.54	5.1	10.6	9.0 - 12.3
Beckman ACCESS / 2 / Dxl	16	3.68	0.24	6.6	3.7	2.9 - 4.5	16	4.91	0.28	5.8	4.9	4.0 - 5.8
Specimen CH-8							Specimen CH-9					
All Method	34	6.33	0.98	15.5	6.2	3.3 - 9.3	34	5.24	0.95	18.1	5.3	2.3 - 8.1
All TOSOH Instruments	11	13.37	1.07	8.0	13.6	10.1 - 16.6	11	10.94	0.57	5.2	10.8	9.2 - 12.7
Beckman ACCESS / 2 / Dxl	16	5.89	0.33	5.6	6.0	4.8 - 6.9	15	5.05	0.28	5.5	5.2	4.2 - 5.9
Specimen CH-10												
All Method	33	2.95	0.48	16.2	3.1	1.5 - 4.4						
All TOSOH Instruments	11	5.09	0.20	4.0	5.1	4.4 - 5.7						
Beckman ACCESS / 2 / Dxl	15	3.01	0.17	5.7	3.0	2.4 - 3.6						

Thyroxine (mcg/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	53	7.01	0.89	12.7	6.8	5.6 - 8.5	52	10.29	1.14	11.1	10.1	8.2 - 12.4
All TOSOH Instruments	13	6.65	0.26	4.0	6.7	5.3 - 8.0	13	10.22	0.60	5.9	10.2	8.1 - 12.3
Beckman ACCESS / 2 / Dxl	11	8.29	0.49	5.9	8.2	6.6 - 10.0	11	11.95	0.48	4.0	11.9	9.5 - 14.4
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	6.64	0.48	7.2	6.7	5.3 - 8.0	14	9.71	0.50	5.2	9.8	7.7 - 11.7
TOSOH ST AIA	10	6.63	0.29	4.4	6.8	5.3 - 8.0	10	10.20	0.65	6.4	10.4	8.1 - 12.3
Specimen CH-8							Specimen CH-9					
All Method	50	14.03	1.37	9.7	14.2	11.2 - 16.9	51	11.89	1.13	9.5	11.9	9.5 - 14.3
All TOSOH Instruments	12	14.41	0.70	4.9	14.2	11.5 - 17.3	13	12.02	0.74	6.2	11.8	9.6 - 14.5
Beckman ACCESS / 2 / Dxl	11	14.84	0.55	3.7	14.9	11.8 - 17.9	11	13.00	0.49	3.8	13.1	10.4 - 15.6
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	13.79	0.55	4.0	13.9	11.0 - 16.6	14	11.62	0.50	4.3	11.7	9.2 - 14.0
TOSOH ST AIA	10	13.30	3.63	27.3	14.2	10.6 - 16.0	10	12.02	0.81	6.7	11.9	9.6 - 14.5
Specimen CH-10												
All Method	51	6.47	0.76	11.8	6.4	5.1 - 7.8						
All TOSOH Instruments	12	6.38	0.24	3.8	6.4	5.1 - 7.7						
Beckman ACCESS / 2 / Dxl	11	7.32	0.49	6.7	7.2	5.8 - 8.8						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	6.07	0.48	7.9	6.1	4.8 - 7.3						
TOSOH ST AIA	10	6.01	1.21	20.2	6.4	4.8 - 7.3						

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	211	2.40	0.63	26.5	2.4	0.4 - 4.3	210	3.28	0.85	25.9	3.3	0.7 - 5.9
All DPC Immulite Instruments	13	2.71	0.17	6.3	2.7	2.1 - 3.3	13	3.52	0.29	8.2	3.5	2.6 - 4.4
All Roche Elecsys/Cobas Instruments	13	2.61	0.10	4.0	2.6	2.2 - 3.0	13	3.61	0.21	5.8	3.6	2.9 - 4.3
All TOSOH Instruments	44	3.08	0.23	7.6	3.1	2.3 - 3.8	44	4.25	0.29	6.9	4.3	3.3 - 5.2
Abbott Architect	18	2.20	0.11	4.9	2.2	1.8 - 2.6	18	3.34	0.21	6.2	3.3	2.7 - 4.0
Beckman ACCESS / 2 / Dxl	47	2.11	0.09	4.2	2.1	1.8 - 2.4	45	2.71	0.11	4.1	2.7	2.3 - 3.1
bioMerieux Vidas, Mini Vidas	28	1.44	0.12	8.1	1.4	1.0 - 1.8	29	2.09	0.17	8.1	2.1	1.5 - 2.6
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	2.86	0.20	6.8	2.8	2.2 - 3.5	31	3.95	0.20	5.1	4.0	3.3 - 4.6
TOSOH AIA	18	3.09	0.24	7.8	3.1	2.3 - 3.9	18	4.26	0.26	6.2	4.2	3.4 - 5.1
TOSOH ST AIA	26	3.07	0.23	7.7	3.1	2.3 - 3.8	26	4.25	0.32	7.4	4.4	3.3 - 5.2
Specimen CH-8							Specimen CH-9					
All Method	214	4.20	1.18	28.2	4.5	0.6 - 7.8	212	3.68	1.02	27.8	4.0	0.6 - 6.8
All DPC Immulite Instruments	13	4.48	0.32	7.2	4.4	3.5 - 5.5	13	3.98	0.32	8.0	4.0	3.0 - 5.0
All Roche Elecsys/Cobas Instruments	13	4.86	0.29	6.0	4.8	3.9 - 5.8	13	4.15	0.23	5.5	4.1	3.4 - 4.9
All TOSOH Instruments	43	5.36	0.33	6.2	5.4	4.3 - 6.4	44	4.65	0.36	7.8	4.7	3.5 - 5.8
Abbott Architect	18	4.89	0.54	11.0	4.7	3.2 - 6.6	18	4.16	0.39	9.4	4.0	2.9 - 5.4
Beckman ACCESS / 2 / Dxl	46	3.17	0.18	5.6	3.1	2.6 - 3.8	46	2.87	0.17	6.1	2.9	2.3 - 3.4
bioMerieux Vidas, Mini Vidas	29	2.83	0.26	9.1	2.8	2.0 - 3.6	28	2.40	0.24	10.0	2.4	1.6 - 3.2
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	4.99	0.39	7.8	5.0	3.8 - 6.2	31	4.39	0.29	6.6	4.5	3.5 - 5.3
TOSOH AIA	18	5.38	0.31	5.8	5.4	4.4 - 6.4	18	4.62	0.35	7.7	4.6	3.5 - 5.7
TOSOH ST AIA	25	5.34	0.36	6.7	5.4	4.2 - 6.5	26	4.66	0.37	8.0	4.7	3.5 - 5.8

Free Thyroxine (ng/dL)

Specimen CH-10

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	208	2.20	0.52	23.8	2.3	0.6 - 3.8
All DPC Immulite Instruments	13	2.52	0.21	8.4	2.6	1.8 - 3.2
All Roche Elecsys/Cobas Instruments	13	2.46	0.10	4.2	2.5	2.1 - 2.8
All TOSOH Instruments	44	2.73	0.19	7.1	2.7	2.1 - 3.4
Abbott Architect	18	2.14	0.10	4.9	2.1	1.8 - 2.5
Beckman ACCESS / 2 / Dxl	45	1.86	0.08	4.0	1.8	1.6 - 2.1
bioMerieux Vidas, Mini Vidas	27	1.35	0.11	7.8	1.3	1.0 - 1.7
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	31	2.62	0.28	10.6	2.5	1.7 - 3.5
TOSOH AIA	18	2.72	0.17	6.2	2.8	2.2 - 3.3
TOSOH ST AIA	26	2.73	0.21	7.8	2.7	2.0 - 3.4

TSH (μU/mL)

Specimen CH-6

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	281	3.43	0.39	11.4	3.4	2.2 - 4.7
All Abbott Instruments	21	3.05	0.18	5.8	3.1	2.5 - 3.6
All DPC Immulite Instruments	13	3.34	0.30	9.1	3.3	2.4 - 4.3
All Roche Elecsys/Cobas Instruments	16	3.67	0.12	3.3	3.6	3.3 - 4.1
All TOSOH Instruments	60	3.82	0.28	7.3	3.8	2.9 - 4.7
Abbott Architect	21	3.05	0.18	5.8	3.1	2.5 - 3.6
Beckman ACCESS / 2 / Dxl	54	3.09	0.19	6.2	3.1	2.5 - 3.7
bioMerieux Vidas, Mini Vidas	50	3.57	0.19	5.2	3.5	3.0 - 4.2
Roche Elecsys 1010/2010	10	3.66	0.12	3.2	3.6	3.3 - 4.1
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	45	3.14	0.16	5.1	3.2	2.6 - 3.7
TOSOH AIA	24	3.70	0.26	7.1	3.6	2.9 - 4.5
TOSOH ST AIA	36	3.90	0.26	6.8	3.9	3.1 - 4.7

Specimen CH-7

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
281	6.23	0.68	11.0	6.2	4.1 - 8.3
21	5.64	0.28	5.0	5.6	4.7 - 6.5
13	6.07	0.55	9.0	5.9	4.4 - 7.8
16	6.47	0.22	3.4	6.4	5.8 - 7.2
60	6.84	0.44	6.4	6.8	5.5 - 8.2
21	5.64	0.28	5.0	5.6	4.7 - 6.5
54	5.53	0.29	5.2	5.5	4.6 - 6.4
52	6.60	0.37	5.6	6.6	5.4 - 7.8
10	6.46	0.25	3.8	6.5	5.7 - 7.2
44	5.75	0.37	6.4	5.8	4.6 - 6.9
24	6.73	0.35	5.3	6.8	5.6 - 7.8
36	6.91	0.48	6.9	6.8	5.4 - 8.4

TSH (μU/mL)

Specimen CH-8							Specimen CH-9					
<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	281	9.16	1.09	11.8	9.2	5.9 - 12.5	280	7.19	0.77	10.7	7.3	4.8 - 9.5
All Abbott Instruments	21	8.60	0.49	5.7	8.6	7.1 - 10.1	21	6.68	0.35	5.2	6.6	5.6 - 7.8
All DPC Immulite Instruments	13	9.32	0.92	9.9	9.5	6.5 - 12.1	13	7.32	0.66	9.0	7.3	5.3 - 9.3
All Roche Elecsys/Cobas Instruments	16	9.17	0.38	4.1	9.3	8.0 - 10.4	16	7.18	0.25	3.5	7.3	6.4 - 8.0
All TOSOH Instruments	60	10.15	0.64	6.3	10.1	8.2 - 12.1	59	7.88	0.50	6.4	7.8	6.3 - 9.4
Abbott Architect	21	8.60	0.49	5.7	8.6	7.1 - 10.1	21	6.68	0.35	5.2	6.6	5.6 - 7.8
Beckman ACCESS / 2 / Dxl	53	7.73	0.41	5.4	7.7	6.4 - 9.0	54	6.27	0.38	6.1	6.3	5.1 - 7.5
bioMerieux Vidas, Mini Vidas	49	9.74	0.39	4.0	9.7	8.5 - 11.0	51	7.63	0.43	5.6	7.6	6.3 - 9.0
Roche Elecsys 1010/2010	10	9.18	0.45	4.9	9.3	7.8 - 10.6	10	7.19	0.27	3.7	7.2	6.3 - 8.0
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	45	8.86	0.64	7.3	8.8	6.9 - 10.8	45	6.87	0.45	6.5	6.8	5.5 - 8.3
TOSOH AIA	24	9.98	0.57	5.7	10.0	8.2 - 11.7	24	7.83	0.44	5.6	7.8	6.5 - 9.2
TOSOH ST AIA	36	10.26	0.67	6.5	10.1	8.2 - 12.3	35	7.91	0.54	6.9	7.9	6.2 - 9.6

Specimen CH-10						
All Method	278	2.34	0.25	10.9	2.3	1.5 - 3.2
All Abbott Instruments	21	2.10	0.10	4.8	2.1	1.8 - 2.4
All DPC Immulite Instruments	13	2.38	0.15	6.4	2.4	1.9 - 2.9
All Roche Elecsys/Cobas Instruments	16	2.48	0.10	4.0	2.5	2.1 - 2.8
All TOSOH Instruments	59	2.60	0.18	7.0	2.6	2.0 - 3.2
Abbott Architect	21	2.10	0.10	4.8	2.1	1.8 - 2.4
Beckman ACCESS / 2 / Dxl	53	2.09	0.12	5.8	2.1	1.7 - 2.5
bioMerieux Vidas, Mini Vidas	51	2.38	0.13	5.3	2.4	1.9 - 2.8
Roche Elecsys 1010/2010	10	2.47	0.12	4.7	2.5	2.1 - 2.9
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	45	2.18	0.14	6.5	2.1	1.7 - 2.7
TOSOH AIA	24	2.54	0.20	8.0	2.5	1.9 - 3.2
TOSOH ST AIA	35	2.64	0.16	6.0	2.6	2.1 - 3.2

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-6		Specimen HCG-7	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	145	145	-
Beckman Coulter ICON 25 hCG	-	7	7	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	12	12	-
Henry Schein One Step + Combo	-	7	7	-
Inverness Clearview hCG Combo II	-	5	5	-
LifeSign Status hCG	-	1	1	-
McKesson hCG Combo Cassette	-	5	5	-
NDC Pro Advantage	-	2	2	-
Polymedco Poly stat hCG	-	2	2	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	10	10	-
Quidel QuickVue One-Step Combo	-	66	66	-
Sekisui OSOM hCG Combo Test	-	5	5	-
Stanbio QUPID Plus	-	3	3	-
Sure-Vue hCG - 25mIU	-	1	1	-
Sure-Vue hCG-STAT (10mIU)	-	2	2	-

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-8		Specimen HCG-9	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	145	144	1
Beckman Coulter ICON 25 hCG	-	7	7	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	12	12	-
Henry Schein One Step + Combo	-	7	6	1
Inverness Clearview hCG Combo II	-	5	5	-
LifeSign Status hCG	-	1	1	-
McKesson hCG Combo Cassette	-	5	5	-
NDC Pro Advantage	-	2	2	-
Polymedco Poly stat hCG	-	2	2	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	10	10	-
Quidel QuickVue One-Step Combo	-	66	66	-
Sekisui OSOM hCG Combo Test	-	5	5	-
Stanbio QUPID Plus	-	3	3	-
Sure-Vue hCG - 25mIU	-	1	1	-
Sure-Vue hCG-STAT (10mIU)	-	2	2	-

Serum hCG – Qualitative

Specimen HCG-10

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	144	-
Beckman Coulter ICON 25 hCG	7	-
Cardinal Health SP Brand combo	9	-
CONSULT diagnostics hCG Combo	12	-
Henry Schein One Step + Combo	7	-
Inverness Clearview hCG Combo II	5	-
LifeSign Status hCG	1	-
McKesson hCG Combo Cassette	5	-
NDC Pro Advantage	2	-
Polymedco Poly stat hCG	2	-
PSS Select hCG Combo	2	-
Quidel QuickVue + One-Step	10	-
Quidel QuickVue One-Step Combo	65	-
Sekisui OSOM hCG Combo Test	5	-
Stanbio QUPID Plus	3	-
Sure-Vue hCG - 25mIU	1	-
Sure-Vue hCG-STAT (10mIU)	2	-

Serum hCG – Quantitative (mIU/mL)

Specimen HCG-6							Specimen HCG-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	26	1.2	0.8	72.3	1	0 - 4	24	3664.8	975.0	26.6	4002	739 - 6590
Specimen HCG-8							Specimen HCG-9					
All Method	26	1.2	0.9	77.1	1	0 - 4	26	54.3	14.4	26.5	59	11 - 98
Specimen HCG-10												
All Method	26	365.4	115.7	31.7	401	18 - 713						

Cholesterol, Total (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	333	143.9	6.9	4.8	144	129 - 159	329	175.2	7.1	4.1	175	157 - 193
All Alfa Wassermann Reagents	48	144.6	3.1	2.2	145	130 - 160	49	174.4	3.4	2.0	175	156 - 192
All Horiba Pentra Reagents	17	146.1	4.5	3.1	145	131 - 161	17	177.3	5.1	2.9	176	159 - 196
All Roche Integra/c111/c301/c501 Reagents	33	143.8	4.4	3.1	143	129 - 159	33	174.8	4.4	2.5	175	157 - 193
All Vital Diagnostics Reagents	21	145.0	6.0	4.1	145	130 - 160	21	177.1	7.2	4.1	176	159 - 195
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	43	144.7	3.0	2.1	145	130 - 160	44	174.5	3.3	1.9	175	157 - 192
Beckman AU												
Beckman AU systems	23	140.9	4.3	3.0	141	126 - 156	23	171.7	5.0	2.9	173	154 - 189
Cholestech LDX												
Cholestech LDX - waived	43	150.4	5.4	3.6	150	135 - 166	44	185.2	8.6	4.6	185	166 - 204
All Chemistry Instruments	49	149.7	5.7	3.8	150	134 - 165	50	183.9	8.8	4.8	182	165 - 203
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	146.1	4.6	3.2	145	131 - 161	16	177.3	5.2	3.0	176	159 - 195
Pointe Scientific												
All Chemistry Instruments	10	157.0	5.7	3.7	159	141 - 173	10	186.9	5.7	3.1	190	168 - 206
Roche Integra												
Roche Integra	26	143.0	4.2	2.9	143	128 - 158	26	173.9	4.2	2.4	174	156 - 192
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	50	138.9	4.2	3.0	139	124 - 153	50	168.7	4.7	2.8	168	151 - 186
All Chemistry Instruments	51	138.9	4.2	3.0	139	125 - 153	51	168.9	4.8	2.8	168	151 - 186
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	145.4	6.4	4.4	145	130 - 160	16	178.6	7.6	4.3	179	160 - 197
All Chemistry Instruments	17	145.4	6.2	4.3	145	130 - 160	17	178.3	7.4	4.2	179	160 - 197
VITROS												
VITROS 250,350,500,700,750,950	26	135.3	4.1	3.0	135	121 - 149	26	169.2	5.0	2.9	169	152 - 187
All Chemistry Instruments	33	135.4	3.8	2.8	135	121 - 149	33	169.9	4.8	2.8	170	152 - 187

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	287	223.3	9.0	4.0	223	200 - 246	288	210.4	8.7	4.1	210	189 - 232
All Alfa Wassermann Reagents	49	222.3	5.8	2.6	222	200 - 245	49	209.7	4.6	2.2	210	188 - 231
All Horiba Pentra Reagents	17	227.8	7.6	3.3	227	205 - 251	17	214.6	6.5	3.0	213	193 - 237
All Roche Integra/c111/c301/c501 Reagents	33	223.5	5.9	2.7	224	201 - 246	32	210.8	4.6	2.2	211	189 - 232
All Vital Diagnostics Reagents	21	230.0	9.6	4.2	230	206 - 253	21	216.4	10.1	4.7	217	194 - 239
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	44	222.3	5.6	2.5	222	200 - 245	44	209.5	4.3	2.0	210	188 - 231
Beckman AU												
Beckman AU systems	23	218.8	5.5	2.5	221	196 - 241	23	207.0	6.6	3.2	208	186 - 228
Cholestech LDX												
Cholestech LDX - waived	14	236.7	16.2	6.9	233	213 - 261	14	221.6	13.9	6.3	216	199 - 244
All Chemistry Instruments	17	234.9	15.3	6.5	232	211 - 259	17	219.6	13.6	6.2	216	197 - 242
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	227.8	7.8	3.4	226	205 - 251	16	214.7	6.7	3.1	213	193 - 237
Pointe Scientific												
All Chemistry Instruments	10	237.5	5.4	2.3	237	213 - 262	10	226.2	6.6	2.9	229	203 - 249
Roche Integra												
Roche Integra	25	221.4	4.4	2.0	223	199 - 244	24	209.2	3.3	1.6	210	188 - 231
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	49	213.8	6.7	3.1	215	192 - 236	50	201.0	5.9	2.9	201	180 - 222
All Chemistry Instruments	50	214.0	6.8	3.2	215	192 - 236	51	201.2	6.0	3.0	201	181 - 222
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	231.9	6.3	2.7	231	208 - 256	16	218.7	8.0	3.7	218	196 - 241
All Chemistry Instruments	17	231.4	6.6	2.8	230	208 - 255	17	218.1	8.2	3.8	217	196 - 240
VITROS												
VITROS 250,350,500,700,750,950	26	223.9	7.8	3.5	225	201 - 247	26	213.0	6.9	3.3	212	191 - 235
All Chemistry Instruments	33	225.4	7.9	3.5	226	202 - 248	33	213.6	6.8	3.2	216	192 - 235

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	285	166.0	6.3	3.8	166	149 - 183
All Alfa Wassermann Reagents	49	167.4	4.1	2.5	168	150 - 185
All Horiba Pentra Reagents	17	169.9	4.5	2.7	169	152 - 187
All Roche Integra/c111/c301/c501 Reagents	32	166.4	4.4	2.7	166	149 - 184
All Vital Diagnostics Reagents	20	170.2	7.5	4.4	171	153 - 188
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	44	167.4	3.8	2.3	168	150 - 185
Beckman AU						
Beckman AU systems	23	163.2	4.4	2.7	165	146 - 180
Cholestech LDX						
Cholestech LDX - waived	14	170.9	8.5	5.0	170	153 - 189
All Chemistry Instruments	16	168.6	4.8	2.9	168	151 - 186
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	169.9	4.7	2.7	169	152 - 187
Pointe Scientific						
All Chemistry Instruments	10	177.3	5.9	3.3	180	159 - 196
Roche Integra						
Roche Integra	25	165.0	3.2	2.0	165	148 - 182
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	49	159.2	4.7	3.0	159	143 - 176
All Chemistry Instruments	50	159.4	4.8	3.0	159	143 - 176
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	172.8	5.9	3.4	172	155 - 191
All Chemistry Instruments	17	172.2	6.1	3.6	172	154 - 190
VITROS						
VITROS 250,350,500,700,750,950	26	164.8	5.4	3.3	165	148 - 182
All Chemistry Instruments	33	164.8	5.2	3.2	164	148 - 182

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	233	47.7	10.4	21.7	49	33 - 63	228	62.0	11.7	18.9	64	43 - 81
Calculated-Trig/5												
Alfa Wassermann ACE Alera/Axcel	34	55.9	4.2	7.6	57	39 - 73	34	68.8	4.7	6.9	69	48 - 90
Beckman AU systems	17	46.1	7.0	15.3	47	32 - 60	16	60.6	4.8	7.9	61	42 - 79
Cholestech LDX - waived	32	47.2	7.1	15.1	47	33 - 62	30	55.2	10.1	18.3	56	38 - 72
Horiba ABX Pentra 400	10	58.1	8.2	14.1	58	40 - 76	10	72.2	7.9	10.9	71	50 - 94
Roche Integra	17	46.8	6.2	13.2	47	32 - 61	17	67.2	7.0	10.5	67	47 - 88
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	46.2	7.7	16.6	46	32 - 61	23	66.2	6.9	10.4	67	46 - 87
Vital Diagnostics Envoy 500	13	46.3	10.2	22.0	47	32 - 61	13	60.9	12.8	21.1	61	42 - 80
VITROS 250,350,500,700,750,950	23	33.3	5.0	15.0	32	23 - 44	23	45.9	6.2	13.4	46	32 - 60
All Chemistry Instruments	220	47.6	10.5	22.1	49	33 - 62	215	61.9	11.8	19.0	64	43 - 81
Specimen CH-8							Specimen CH-9					
All Method	192	86.3	15.0	17.3	90	60 - 113	188	78.3	13.5	17.3	81	54 - 102
Calculated-Trig/5												
Alfa Wassermann ACE Alera/Axcel	34	92.6	6.6	7.2	94	64 - 121	34	86.2	6.2	7.2	86	60 - 113
Beckman AU systems	17	76.3	10.2	13.4	79	53 - 100	17	71.5	9.1	12.8	74	50 - 93
Cholestech LDX - waived	2	-	-	-	96	60 - 113	2	-	-	-	96	54 - 102
Horiba ABX Pentra 400	10	96.3	10.3	10.7	97	67 - 126	10	89.8	9.2	10.3	87	62 - 117
Roche Integra	17	97.7	9.4	9.6	96	68 - 128	17	83.5	8.9	10.6	85	58 - 109
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	23	92.6	7.6	8.3	93	64 - 121	23	78.7	7.8	9.9	79	55 - 103
Vital Diagnostics Envoy 500	13	81.2	14.8	18.2	84	56 - 106	13	75.1	16.3	21.8	81	52 - 98
VITROS 250,350,500,700,750,950	23	64.4	9.2	14.3	63	45 - 84	23	57.5	7.6	13.3	57	40 - 75
All Chemistry Instruments	181	86.2	15.3	17.7	90	60 - 113	178	78.0	14.1	18.1	81	54 - 102

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-10						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	199	52.3	14.0	26.7	52	36 - 68
Calculated-Trig/5						
Alfa Wassermann ACE Alera/Axcel	33	66.8	5.7	8.6	67	46 - 87
Beckman AU systems	17	50.3	7.5	14.9	51	35 - 66
Cholestech LDX - waived	9	-	-	-	59	36 - 68
Horiba ABX Pentra 400	10	68.9	8.3	12.0	68	48 - 90
Roche Integra	17	47.3	6.9	14.6	48	33 - 62
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	24	43.7	8.7	19.9	44	30 - 57
Vital Diagnostics Envoy 500	13	49.6	12.7	25.6	53	34 - 65
VITROS 250,350,500,700,750,950	22	33.7	4.8	14.1	34	23 - 44
All Chemistry Instruments	187	52.3	13.8	26.3	52	36 - 68

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	104	43.1	8.8	20.3	43	30 - 57	104	58.6	9.6	16.4	59	41 - 77
Roche LDL Direct												
All Chemistry Instruments	13	57.1	3.4	5.9	58	39 - 75	13	75.4	3.4	4.5	76	52 - 98
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	45.6	2.4	5.4	46	31 - 60	25	61.7	2.9	4.7	62	43 - 81

LDL Cholesterol - Direct (mg/dL)

Specimen CH-8							Specimen CH-9					
<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	100	80.4	11.9	14.8	82	56 - 105	102	70.4	12.3	17.5	70	49 - 92
Roche LDL Direct												
All Chemistry Instruments	13	102.0	7.1	7.0	102	71 - 133	13	90.7	4.6	5.1	91	63 - 118
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	26	84.9	3.8	4.4	85	59 - 111	26	73.8	3.8	5.2	74	51 - 96
Specimen CH-10												
All Method	103	42.9	10.3	24.1	42	30 - 56						
Roche LDL Direct												
Roche Integra	12	62.1	4.5	7.3	63	43 - 81						
All Chemistry Instruments												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	26	44.9	3.1	6.9	44	31 - 59						

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	319	68.4	7.7	11.2	68	47 - 89	320	77.1	10.2	13.3	75	53 - 101
All Dex-Sulfate 50,000 MW Methods	73	73.7	8.5	11.6	76	51 - 96	73	86.9	10.7	12.3	90	60 - 113
All Direct Methods	161	65.3	5.2	8.0	65	45 - 85	161	71.8	6.0	8.3	71	50 - 94
All Phosphotungstic Acid Methods	21	68.8	3.9	5.6	68	48 - 90	21	74.6	6.8	9.1	74	52 - 97
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	15	63.3	2.9	4.6	63	44 - 83	15	73.3	3.6	5.0	74	51 - 96
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	18	62.7	3.5	5.6	62	43 - 82	18	71.8	4.4	6.1	72	50 - 94
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	61.1	2.6	4.3	61	47 - 89	16	69.4	3.5	5.1	69	53 - 101
Beckman AU Direct HDL / LDL												
Beckman AU systems	16	67.1	2.6	3.8	67	46 - 88	16	77.1	3.3	4.3	76	53 - 101
Cholestech LDX												
Cholestech LDX - waived	40	77.6	4.7	6.1	77	54 - 101	41	92.9	4.8	5.2	92	65 - 121
All Chemistry Instruments	46	78.5	5.1	6.4	77	54 - 103	47	93.3	4.8	5.1	93	65 - 122
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	62.8	5.4	8.5	64	43 - 82	13	72.2	5.5	7.6	72	50 - 94
Roche HDL Direct												
Roche Integra	16	69.6	4.8	6.9	69	48 - 91	16	72.7	5.0	6.8	72	50 - 95
All Chemistry Instruments	20	68.1	3.4	5.0	68	47 - 89	21	71.6	5.0	7.0	71	50 - 94
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	40	65.9	3.1	4.7	66	46 - 86	40	68.8	3.2	4.6	69	48 - 90
All Chemistry Instruments	41	65.8	3.1	4.8	66	46 - 86	41	68.5	3.4	5.0	69	47 - 90
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	19	70.5	2.1	3.0	70	49 - 92	19	80.7	2.4	2.9	81	56 - 105
All Chemistry Instruments	23	70.7	2.1	3.0	71	49 - 92	23	80.9	2.3	2.8	81	56 - 106

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	282	91.9	12.0	13.0	91	64 - 120	281	95.0	10.7	11.2	92	66 - 124
All Dex-Sulfate 50,000 MW Methods	41	97.0	10.4	10.8	100	67 - 127	41	97.0	12.2	12.6	100	67 - 127
All Direct Methods	166	89.5	11.9	13.3	88	62 - 117	162	92.2	9.0	9.7	90	64 - 120
All Phosphotungstic Acid Methods	21	88.2	11.3	12.9	87	61 - 115	21	94.0	9.4	10.0	92	65 - 123
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	15	90.5	5.3	5.8	90	63 - 118	15	89.9	4.7	5.2	89	62 - 117
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	17	88.9	4.6	5.2	89	62 - 116	18	88.9	4.6	5.2	89	62 - 116
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	85.6	3.3	3.9	86	64 - 120	16	86.1	5.4	6.3	87	66 - 124
Beckman AU Direct HDL / LDL												
Beckman AU systems	16	98.1	4.3	4.4	97	68 - 128	16	97.8	4.2	4.3	97	68 - 128
Cholestech LDX												
Cholestech LDX - waived	11	100.0	0.0	0.0	100	70 - 130	11	100.0	0.0	0.0	100	70 - 130
All Chemistry Instruments	14	100.0	0.0	0.0	100	70 - 130	13	100.0	0.0	0.0	100	70 - 130
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	90.9	7.1	7.8	90	63 - 119	13	91.3	6.1	6.7	92	63 - 119
Roche HDL Direct												
Roche Integra	16	82.5	6.2	7.5	82	57 - 108	16	91.4	6.8	7.4	90	63 - 119
All Chemistry Instruments	21	81.0	6.3	7.8	81	56 - 106	21	90.1	6.8	7.5	90	63 - 118
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	39	78.2	3.7	4.7	78	54 - 102	40	87.0	3.4	3.9	87	60 - 114
All Chemistry Instruments	40	78.1	3.8	4.8	78	54 - 102	41	86.7	3.7	4.2	87	60 - 113
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	19	104.6	5.7	5.4	104	73 - 136	19	109.1	5.0	4.6	109	76 - 142
All Chemistry Instruments	23	104.9	5.2	5.0	105	73 - 137	23	109.6	4.9	4.4	109	76 - 143

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	284	91.2	10.3	11.2	92	63 - 119
All Dex-Sulfate 50,000 MW Methods	43	89.5	11.2	12.5	89	62 - 117
All Direct Methods	166	90.1	9.9	11.0	90	63 - 118
All Phosphotungstic Acid Methods	21	95.0	5.1	5.3	95	66 - 124
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	15	80.5	5.3	6.6	80	56 - 105
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	18	80.9	4.6	5.7	81	56 - 106
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	78.8	4.2	5.3	80	63 - 119
Beckman AU Direct HDL / LDL						
Beckman AU systems	16	89.6	3.7	4.1	90	62 - 117
Cholestech LDX						
Cholestech LDX - waived	14	89.6	6.2	6.9	90	62 - 117
All Chemistry Instruments	17	90.9	6.3	7.0	91	63 - 119
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	82.9	6.7	8.1	82	58 - 108
Roche HDL Direct						
Roche Integra	16	97.6	4.7	4.9	97	68 - 127
All Chemistry Instruments	20	97.2	4.5	4.6	97	68 - 127
Siemens Automated HDL						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	39	93.7	3.5	3.8	94	65 - 122
All Chemistry Instruments	40	93.5	3.6	3.9	94	65 - 122
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	19	103.2	4.2	4.0	104	72 - 135
All Chemistry Instruments	23	103.4	3.9	3.7	104	72 - 135

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	314	133.9	7.7	5.7	134	100 - 168	316	175.2	10.4	5.9	173	131 - 219
All Alfa Wassermann Reagents	47	135.6	3.5	2.6	135	101 - 170	48	173.3	5.0	2.9	173	129 - 217
All Horiba Pentra Reagents	17	133.8	3.0	2.2	133	100 - 168	17	172.4	3.2	1.8	173	129 - 216
All Roche Integra/c1111/c301/c501 Reagents	33	133.9	3.8	2.8	134	100 - 168	33	172.7	4.4	2.6	173	129 - 216
All Vital Diagnostics Reagents	21	132.5	5.4	4.1	132	99 - 166	21	175.8	7.6	4.3	175	131 - 220
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	42	135.7	3.6	2.7	135	101 - 170	43	173.2	5.2	3.0	173	129 - 217
Beckman AU												
Beckman AU systems	22	131.4	4.9	3.7	133	98 - 165	22	170.9	6.6	3.8	172	128 - 214
Cholestech LDX												
Cholestech LDX - waived	39	134.7	5.5	4.1	135	101 - 169	40	176.6	6.9	3.9	178	132 - 221
All Chemistry Instruments	45	133.9	5.7	4.2	135	100 - 168	46	175.6	7.2	4.1	177	131 - 220
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	133.5	2.9	2.2	133	100 - 167	16	172.2	3.2	1.9	173	129 - 216
Roche Integra												
Roche Integra	26	133.5	3.8	2.8	134	100 - 167	26	172.3	4.6	2.7	172	129 - 216
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	50	125.2	2.8	2.3	125	93 - 157	51	166.9	3.9	2.4	167	125 - 209
All Chemistry Instruments	51	125.2	2.8	2.3	125	93 - 157	52	166.9	3.9	2.3	167	125 - 209
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	134.1	5.0	3.7	133	100 - 168	16	177.1	6.5	3.7	176	132 - 222
All Chemistry Instruments	17	133.9	4.9	3.6	133	100 - 168	17	176.6	6.6	3.7	176	132 - 221
VITROS												
VITROS 250,350,500,700,750,950	26	151.8	4.6	3.0	151	113 - 190	26	202.8	5.9	2.9	202	152 - 254
All Chemistry Instruments	32	150.1	5.9	3.9	150	112 - 188	32	200.9	7.3	3.6	201	150 - 252

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	285	221.0	17.4	7.9	217	165 - 277	284	185.5	13.4	7.2	183	139 - 232
All Alfa Wassermann Reagents	46	212.3	6.2	2.9	212	159 - 266	48	179.1	5.2	2.9	179	134 - 224
All Horiba Pentra Reagents	17	216.4	4.4	2.0	217	162 - 271	17	180.7	4.0	2.2	181	135 - 226
All Roche Integra/c111/c301/c501												
Reagents	33	213.3	5.8	2.7	214	159 - 267	32	179.0	4.5	2.5	180	134 - 224
All Vital Diagnostics Reagents	21	223.3	11.1	4.9	219	167 - 280	21	187.0	8.1	4.4	185	140 - 234
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	41	212.1	6.0	2.8	212	159 - 266	43	179.1	5.1	2.8	179	134 - 224
Beckman AU												
Beckman AU systems	22	217.0	8.6	3.9	219	162 - 272	22	183.4	7.7	4.2	185	137 - 230
Cholestech LDX												
Cholestech LDX - waived	14	231.2	16.8	7.3	226	173 - 290	14	188.6	4.5	2.4	189	141 - 236
All Chemistry Instruments	17	227.6	17.4	7.6	225	170 - 285	17	185.5	8.4	4.5	187	139 - 232
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	216.2	4.5	2.1	216	162 - 271	16	180.5	4.1	2.3	181	135 - 226
Roche Integra												
Roche Integra	26	212.6	6.1	2.9	212	159 - 266	25	178.0	4.3	2.4	177	133 - 223
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	49	214.0	4.8	2.2	214	160 - 268	49	180.9	3.9	2.1	181	135 - 227
All Chemistry Instruments	50	214.0	4.7	2.2	214	160 - 268	50	180.8	3.9	2.1	181	135 - 227
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	223.4	11.0	4.9	220	167 - 280	16	187.6	7.3	3.9	186	140 - 235
All Chemistry Instruments	17	222.5	11.3	5.1	219	166 - 279	17	187.5	7.1	3.8	186	140 - 235
VITROS												
VITROS 250,350,500,700,750,950	26	262.7	6.5	2.5	262	197 - 329	26	220.7	6.5	3.0	220	165 - 276
All Chemistry Instruments	32	261.0	7.5	2.9	261	195 - 327	32	218.8	7.6	3.5	218	164 - 274

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	282	109.4	7.4	6.7	108	82 - 137
All Alfa Wassermann Reagents	47	108.2	3.6	3.3	108	81 - 136
All Horiba Pentra Reagents	17	107.8	3.3	3.1	109	80 - 135
All Roche Integra/c111/c301/c501 Reagents	32	107.5	3.4	3.2	108	80 - 135
All Vital Diagnostics Reagents	21	112.9	6.5	5.8	112	84 - 142
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	42	108.2	3.6	3.4	108	81 - 136
Beckman AU						
Beckman AU systems	22	108.0	4.4	4.0	109	80 - 135
Cholestech LDX						
Cholestech LDX - waived	14	108.4	6.0	5.5	106	81 - 136
All Chemistry Instruments	17	107.0	6.3	5.9	106	80 - 134
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	107.7	3.4	3.2	109	80 - 135
Roche Integra						
Roche Integra	26	106.9	3.2	3.0	107	80 - 134
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	48	104.5	2.4	2.3	105	78 - 131
All Chemistry Instruments	49	104.5	2.3	2.2	105	78 - 131
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	114.4	6.2	5.5	113	85 - 144
All Chemistry Instruments	17	113.8	6.6	5.8	113	85 - 143
VITROS						
VITROS 250,350,500,700,750,950	26	125.7	4.3	3.4	125	94 - 158
All Chemistry Instruments	32	124.2	5.4	4.3	125	93 - 156

Acetaminophen (mcg/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	38.00	6.31	16.6	41.0	19.0 - 57.0	5	61.46	5.98	9.7	64.1	43.5 - 79.5
			Specimen CH-8						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	84.40	7.09	8.4	86.6	63.1 - 105.7	5	61.20	4.47	7.3	60.6	47.7 - 74.7
			Specimen CH-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	14.64	1.10	7.5	15.0	11.3 - 18.0						

Carbamazepine (mcg/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	9	4.33	0.40	9.2	4.4	3.2 - 5.5	9	5.54	0.52	9.3	5.6	4.1 - 7.0
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	4.44	0.11	2.6	4.4	3.3 - 5.6	5	5.56	0.09	1.6	5.5	4.1 - 7.0
			Specimen CH-8						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	9	9.90	0.57	5.8	9.9	7.4 - 12.4	9	11.81	0.56	4.8	11.8	8.8 - 14.8
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	10.06	0.32	3.2	9.9	7.5 - 12.6	5	11.88	0.23	1.9	11.8	8.9 - 14.9
			Specimen CH-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	12.67	0.65	5.2	12.7	9.5 - 15.9						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	12.68	0.43	3.4	12.6	9.5 - 15.9						

Digoxin (ng/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	26	0.86	0.15	17.7	0.9	0.6 - 1.1	26	1.59	0.19	12.1	1.6	1.2 - 2.0
Specimen CH-8							Specimen CH-9					
All Method	26	2.60	0.24	9.2	2.6	2.0 - 3.2	26	2.18	0.19	8.6	2.2	1.7 - 2.7
Specimen CH-10												
All Method	26	1.00	0.17	16.7	1.0	0.7 - 1.2						

Gentamicin (mcg/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	5	8.07	0.12	1.4	8.0	6.0 - 10.1	5	6.20	0.17	2.8	6.3	4.6 - 7.8
Specimen CH-8							Specimen CH-9					
All Method	5	2.13	0.21	9.8	2.2	1.5 - 2.7	5	1.87	0.25	13.5	1.9	1.4 - 2.4
Specimen CH-10												
All Method	5	3.43	0.15	4.4	3.4	2.5 - 4.3						

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	2.00	0.40	20.0	2.2	1.6 - 2.4	5	1.55	0.30	19.4	1.7	1.2 - 1.9
	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	0.60	0.20	33.3	0.7	0.3 - 0.9	5	0.73	0.15	20.7	0.8	0.4 - 1.1
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.35	0.10	7.4	1.4	1.0 - 1.7						

Phenobarbital (mcg/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	18.05	1.31	7.2	18.4	14.4 - 21.7	5	28.95	1.17	4.0	28.9	23.1 - 34.8
	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	45.85	2.86	6.2	46.3	36.6 - 55.1	5	40.13	2.79	7.0	41.0	32.1 - 48.2
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	25.55	1.64	6.4	25.7	20.4 - 30.7						

Phenytoin (mcg/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	15	8.84	0.62	7.0	9.0	6.6 - 11.1	15	10.83	0.82	7.5	11.0	8.1 - 13.6
Specimen CH-8							Specimen CH-9					
All Method	15	18.83	1.31	6.9	18.9	14.1 - 23.6	15	23.05	1.24	5.4	23.4	17.2 - 28.9
Specimen CH-10												
All Method	15	25.53	1.50	5.9	25.5	19.1 - 32.0						

Salicylate (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	5	16.67	0.49	3.0	16.9	15.0 - 18.4	5	23.27	0.81	3.5	23.4	20.8 - 25.7
Specimen CH-8							Specimen CH-9					
All Method	5	30.73	0.46	1.5	31.0	27.6 - 33.9	5	24.70	0.26	1.1	24.6	22.2 - 27.2
Specimen CH-10												
All Method	5	13.53	1.40	10.4	13.4	9.3 - 17.8						

Theophylline (mcg/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	14.30	0.74	5.2	14.4	10.7 - 17.9	6	13.12	0.71	5.4	13.5	9.8 - 16.4
	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	6	18.40	0.60	3.3	18.5	13.8 - 23.0	6	26.50	0.93	3.5	26.9	19.8 - 33.2
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	34.98	1.93	5.5	35.3	26.2 - 43.8						

Valproic Acid (mcg/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	96.06	6.98	7.3	93.4	72.0 - 120.1	10	104.96	9.58	9.1	104.1	78.7 - 131.2
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	6	94.70	8.11	8.6	92.3	71.0 - 118.4	6	98.95	4.89	4.9	97.5	74.2 - 123.7
	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	106.45	7.39	6.9	105.7	79.8 - 133.1	10	86.89	6.15	7.1	85.7	65.1 - 108.7
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	6	103.40	5.22	5.0	102.3	77.5 - 129.3	6	83.85	2.91	3.5	84.6	62.8 - 104.9
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	51.78	2.51	4.8	51.9	38.8 - 64.8						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	6	51.20	2.34	4.6	51.4	38.4 - 64.0						

Vancomycin (mcg/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	6	15.05	1.36	9.0	14.8	10.9 - 19.2	6	25.65	2.74	10.7	24.9	17.4 - 33.9
Specimen CH-8							Specimen CH-9					
All Method	6	42.48	2.42	5.7	41.9	35.2 - 49.8	6	37.22	2.55	6.8	36.8	29.5 - 44.9
Specimen CH-10												
All Method	6	21.88	1.07	4.9	21.7	18.6 - 25.1						

Apolipoprotein A1 (mg/dL)

Specimen LP-3							Specimen LP-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	86.4	21.5	24.9	91	60 - 113	5	146.4	57.9	39.6	171	102 - 191

Apolipoprotein B (mg/dL)

Specimen LP-3							Specimen LP-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	6	45.3	8.2	18.0	44	33 - 57	6	89.7	14.7	16.4	89	67 - 113

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	19	17.83	1.18	6.6	17.4	14.2 - 21.4	20	2.77	0.20	7.2	2.8	2.2 - 3.4
No Reagent Required												
All Chemistry Instruments	11	18.28	1.05	5.8	18.8	14.6 - 22.0	11	2.67	0.17	6.3	2.6	2.1 - 3.3
	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	20	13.19	1.07	8.1	13.2	10.5 - 15.9	19	19.39	1.36	7.0	19.0	15.5 - 23.3
No Reagent Required												
All Chemistry Instruments	11	13.36	0.80	6.0	13.8	10.6 - 16.1	11	19.85	1.25	6.3	20.5	15.8 - 23.9
	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	20	7.07	0.49	7.0	7.0	5.6 - 8.5						
No Reagent Required												
All Chemistry Instruments	11	7.22	0.34	4.8	7.2	5.7 - 8.7						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-8					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	8.57	0.64	7.5	8.9	7.2 - 9.9	10	0.81	0.11	13.6	0.8	0.5 - 1.1
	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	10	6.41	0.55	8.6	6.7	5.3 - 7.6	10	9.31	0.67	7.2	9.6	7.9 - 10.7
	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	10	3.46	0.32	9.2	3.6	2.8 - 4.1						

Blood Gases – pH

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-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	10	7.150	0.023	0.3	7.16	7.11 - 7.19	10	7.790	0.032	0.4	7.80	7.75 - 7.83
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-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	10	7.627	0.022	0.3	7.63	7.58 - 7.67	10	7.456	0.016	0.2	7.46	7.41 - 7.50
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	7.076	0.015	0.2	7.07	7.03 - 7.12						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-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	10	65.60	4.06	6.2	64.4	60.3 - 70.9	10	17.51	1.48	8.5	17.9	12.5 - 22.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-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	10	23.85	1.72	7.2	23.2	18.8 - 28.9	10	34.89	2.58	7.4	33.8	29.8 - 39.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	66.58	4.66	7.0	65.7	61.2 - 72.0						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-6				<u>Labs</u>	<u>Mean</u>	Specimen BG-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	10	164.63	5.18	3.1	164.5	149.0 - 180.2	10	188.63	14.08	7.5	189.5	146.3 - 230.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-8				<u>Labs</u>	<u>Mean</u>	Specimen BG-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	10	86.25	8.83	10.2	84.0	59.7 - 112.8	10	101.88	7.61	7.5	102.5	79.0 - 124.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	56.13	12.76	22.7	57.5	17.8 - 94.4						

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	1.363	0.035	2.6	1.36	1.25 - 1.47	5	0.853	0.058	6.8	0.82	0.68 - 1.03
<u>Method</u>	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	0.717	0.038	5.3	0.70	0.60 - 0.84	5	1.167	0.038	3.2	1.15	1.05 - 1.29
<u>Method</u>	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.783	0.015	0.9	1.78	1.73 - 1.83						

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: 72 mmol/L, 110 mmol/L, 137 mmol/L, 97 mmol/L, and 124 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: 7.4 mmol/L, 2.5 mmol/L, 4.8 mmol/L, 4.3 mmol/L, and 5.5 mmol/L, respectively.

Blood Gases - Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-6 through BG-10 are: 110 mmol/L, 159 mmol/L, 137 mmol/L, 133 mmol/L, and 145 mmol/L, respectively.

Blood Gases – Lactic Acid (mmol/L)

One participant reported results for Blood Gases-Lactic Acid. The vendor mean assay values for specimens BG-6 through BG-10 are: 3.7 mmol/L, 0.9 mmol/L, 9.1 mmol/L, 6.4 mmol/L, and 2.7 mmol/L, respectively.

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-3						Specimen GH-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	255	5.79	0.27	4.7	5.8	5.3 - 6.3	251	8.00	0.38	4.7	8.0	7.3 - 8.7
All Hemoglobin A1c Methods	251	5.79	0.27	4.7	5.8	5.3 - 6.3	246	7.99	0.37	4.6	8.0	7.3 - 8.7
Bayer DCA 2000/+	17	5.96	0.26	4.4	6.0	5.4 - 6.5	18	8.20	0.30	3.7	8.3	7.5 - 8.9
Beckman AU A1c	12	5.84	0.28	4.9	5.8	5.3 - 6.4	13	7.85	0.72	9.2	7.9	7.2 - 8.5
Roche Integra A1C	10	5.77	0.29	5.0	5.7	5.3 - 6.3	10	7.82	0.39	5.0	7.9	7.1 - 8.5
Siemens DCA Vantage	98	5.82	0.16	2.7	5.8	5.3 - 6.3	99	8.05	0.24	2.9	8.0	7.4 - 8.7
Siemens Dimension HB1C	41	5.74	0.21	3.7	5.7	5.2 - 6.3	41	8.07	0.25	3.0	8.1	7.4 - 8.8
TOSOH G8	10	5.27	0.20	3.8	5.3	4.8 - 5.7	10	7.14	0.24	3.4	7.2	6.5 - 7.8

B-Type Natriuretic Peptide (BNP)

<u>Method</u>	Specimen BNP-3						Specimen BNP-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	29	354.2	47.1	13.3	356	212 - 496	30	1359.2	254.0	18.7	1370	597 - 2122
Biosite Triage	27	360.0	43.1	12.0	356	230 - 490	28	1378.0	252.4	18.3	1370	620 - 2136

NT-proBNP

<u>Method</u>	Specimen BNP-3						Specimen BNP-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	1282.2	740.3	57.7	1228	0 - 2763	6	5909.2	3217.3	54.4	5251	0 - 12344

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-3						Specimen AFN-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>
Axis-Shield Afinion AS100	42	8.47	0.21	2.5	8.5	7.7 - 9.2	42	6.43	0.17	2.6	6.4	5.9 - 7.0

BNP (pg/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-6						Specimen TCK-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	34	400.6	41.7	10.4	396	275 - 526	37	1389.2	259.6	18.7	1360	610 - 2168
<u>Method</u>	Specimen TCK-8						Specimen TCK-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	35	57.7	6.9	11.9	57	37 - 79	35	2186.6	426.6	19.5	2150	906 - 3467
<u>Method</u>	Specimen TCK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	35	701.0	121.1	17.3	671	337 - 1065						

CK-MB (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-6					Specimen TCK-7					
			<u>SD</u>	<u>CV</u>	<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	30	7.1	1.0	14.6	7	4 - 11		30	21.6	2.7	12.6	22	13 - 30
			Specimen TCK-8					Specimen TCK-9					
			<u>SD</u>	<u>CV</u>	<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	31	2.8	0.5	19.3	3	1 - 5		31	37.5	6.1	16.2	37	19 - 56
			Specimen TCK-10										
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>							
Biosite Triage	31	11.8	2.1	17.5	12	5 - 18							

D-Dimer (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-6				Specimen TCK-7					
			<u>SD</u>	<u>CV</u>	<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	31	703.5	64.4	9.2	692	492 - 915	31	1077.3	137.0	12.7	1070	754 - 1401
			Specimen TCK-8				Specimen TCK-9					
			<u>SD</u>	<u>CV</u>	<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	32	542.3	88.0	16.2	527	366 - 719	32	1520.3	214.2	14.1	1525	1064 - 1977
			Specimen TCK-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	32	847.1	97.8	11.5	854	592 - 1102						

Myoglobin (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-6					Specimen TCK-7					
			<u>SD</u>	<u>CV</u>	<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	26	122.5	22.2	18.1	121	85 - 160		26	303.7	58.5	19.3	299	212 - 395
			Specimen TCK-8					Specimen TCK-9					
			<u>SD</u>	<u>CV</u>	<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	26	59.7	6.9	11.6	60	41 - 78		26	460.0	49.7	10.8	487	322 - 598
			Specimen TCK-10										
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>							
Biosite Triage	26	184.2	29.8	16.2	176	128 - 240							

Troponin I (ng/mL) – Biosite Triage Cardiac Panel

Specimen TCK-6							Specimen TCK-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>
Biosite Triage	37	0.259	0.057	21.9	0.25	0.14 - 0.38	36	2.542	0.479	18.9	2.50	1.58 - 3.51
Specimen TCK-8							Specimen TCK-9					
Biosite Triage	37	0.050	0.000	0.0	0.05	0.03 - 0.07	37	7.461	1.317	17.7	7.62	4.82 - 10.10
Specimen TCK-10												
Biosite Triage	37	0.821	0.206	25.0	0.82	0.40 - 1.24						

C-Peptide (ng/mL)

Specimen CIP-3							Specimen CIP-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	8	7.200	2.182	30.3	6.40	2.83 - 11.57	8	0.788	0.100	12.7	0.75	0.58 - 0.99

Insulin (μU/mL)

Specimen CIP-3							Specimen CIP-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	15	89.81	31.03	34.6	107.6	27.7 - 151.9	15	11.93	2.82	23.7	13.3	6.2 - 17.6

Parathyroid hormone (pg/mL)

Specimen CIP-3							Specimen CIP-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	35	45.0	8.6	19.2	42	27 - 63	35	11.5	2.7	23.3	11	6 - 17

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

Specimen CIP-3							Specimen CIP-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	67	40.51	13.04	32.2	38.5	14.4 - 66.6	66	15.69	5.82	37.1	15.8	4.0 - 27.4
Abbott Architect	17	34.84	2.85	8.2	35.3	29.1 - 40.6	17	12.64	1.87	14.8	13.0	8.8 - 16.4

CK-MB (ng/mL) Quantitative

<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	21	13.51	4.20	31.1	15.4	0.8 - 26.2	21	41.90	14.63	34.9	47.7	0.0 - 85.8
<u>Method</u>	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	21	5.09	1.85	36.4	5.8	0.0 - 10.7	21	79.47	30.05	37.8	89.1	0.0 - 169.7
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	21	23.10	7.46	32.3	26.5	0.7 - 45.5						

CK-MB (Qualitative)

<u>Method</u>	Specimen CK-6		Specimen CK-7		Specimen CK-8	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	-	2	-
LifeSign MI	2	-	2	-	2	-
<u>Method</u>	Specimen CK-9		Specimen CK-10			
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>		
ALL METHODS	2	-	2	-		
LifeSign MI	2	-	2	-		

Myoglobin (ng/mL) Quantitative

<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	10	116.45	19.42	16.7	115.0	81.5 - 151.4	10	304.48	33.85	11.1	308.0	213.1 - 395.9
<u>Method</u>	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	10	53.14	13.81	26.0	48.5	37.1 - 69.1	10	494.00	103.37	20.9	489.9	345.8 - 642.2
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	179.19	25.81	14.4	178.0	125.4 - 233.0						

Myoglobin (Qualitative)

<u>Method</u>	Specimen CK-6		Specimen CK-7		Specimen CK-8	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	1	1	1	-	2
LifeSign MI	1	1	1	1	-	2
<u>Method</u>	Specimen CK-9		Specimen CK-10			
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>		
ALL METHODS	2	-	-	2		
LifeSign MI	2	-	-	2		

Specimens CK-6 and CK-7 are ungraded challenges due to less than 80% participant consensus.

Troponin I (ng/mL) Quantitative

<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	21	0.698	1.319	189.1	0.46	0.00 - 3.34	21	3.314	5.415	163.4	2.27	0.00 - 14.15
<u>Method</u>	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	21	0.050	0.065	130.8	0.04	0.00 - 0.19	20	5.075	1.370	27.0	4.95	2.33 - 7.82
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	21	1.549	2.745	177.3	0.96	0.00 - 7.04						

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-6		Specimen CK-7		Specimen CK-8	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	-	-	2
LifeSign MI	2	-	2	-	-	2
<u>Method</u>	Specimen CK-9		Specimen CK-10			
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>		
ALL METHODS	2	-	2	-		
LifeSign MI	2	-	2	-		

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	188	7.243	0.919	12.7	6.99	5.06 - 9.42	188	13.704	1.811	13.2	13.27	9.59 - 17.82
All Roche Elecsys/Cobas Instruments	13	7.838	0.517	6.6	7.83	5.48 - 10.20	13	14.587	1.018	7.0	14.56	10.21 - 18.97
All TOSOH Instruments	46	6.504	0.396	6.1	6.44	4.55 - 8.46	46	12.132	0.646	5.3	12.18	8.49 - 15.78
Abbott Architect	17	6.476	0.297	4.6	6.53	4.53 - 8.42	17	12.415	0.536	4.3	12.34	8.69 - 16.14
Beckman ACCESS / 2 / Dxl	14	8.023	0.391	4.9	8.05	5.61 - 10.43	14	15.638	0.553	3.5	15.40	10.94 - 20.33
Beckman ACCESS Hybritech PSA	24	8.102	0.551	6.8	8.12	5.67 - 10.54	24	15.580	0.853	5.5	15.62	10.90 - 20.26
bioMerieux Vidas, Mini Vidas	28	8.056	0.710	8.8	7.96	5.63 - 10.48	28	15.183	1.225	8.1	15.02	10.62 - 19.74
Siemens Dimension TPSA	30	6.612	0.329	5.0	6.59	4.62 - 8.60	30	12.599	0.613	4.9	12.56	8.81 - 16.38
TOSOH AIA	16	6.449	0.267	4.1	6.43	4.51 - 8.39	16	12.060	0.497	4.1	12.08	8.44 - 15.68
TOSOH ST AIA	30	6.533	0.451	6.9	6.54	4.57 - 8.50	30	12.170	0.719	5.9	12.30	8.51 - 15.83

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	0.190	0.020	10.5	0.19	0.13 - 0.25	7	3.281	0.171	5.2	3.30	2.76 - 3.80
TOSOH ST AIA	6	0.188	0.021	11.3	0.19	0.12 - 0.26	6	3.278	0.187	5.7	3.25	2.71 - 3.84

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	14	15.2	2.2	14.2	18	10 - 20	14	144.4	17.7	12.3	178	101 - 188
All TOSOH Instruments	13	21.7	2.6	12.0	23	15 - 29	13	225.7	17.3	7.6	227	157 - 294
TOSOH ST AIA	10	21.5	2.9	13.6	23	15 - 28	10	225.8	19.7	8.7	227	158 - 294

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	10	36.7	9.8	26.6	40	7 - 67	10	187.9	50.1	26.7	209	37 - 339

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	7	15.3	14.4	94.0	9	0 - 59	6	66.2	39.2	59.2	50	0 - 184

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	18	48.2	4.0	8.3	48	36 - 61	18	247.3	20.3	8.2	246	186 - 309
All TOSOH Instruments	17	47.8	3.6	7.6	47	36 - 59	17	246.2	20.4	8.3	244	184 - 308
TOSOH ST AIA	14	48.4	3.6	7.5	48	37 - 60	14	247.9	21.8	8.8	246	182 - 314

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	12	3.29	0.38	11.4	5.0	2.0 - 4.5	13	32.42	6.80	21.0	52.7	22.6 - 42.2
All TOSOH Instruments	18	5.26	0.28	5.4	5.2	3.6 - 6.9	18	55.17	2.19	4.0	55.5	38.6 - 71.8
TOSOH ST AIA	14	5.31	0.29	5.5	5.3	3.7 - 7.0	14	55.66	2.11	3.8	55.8	38.9 - 72.4

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	18	0.022	0.030	136.4	0.01	0.00 - 0.93	18	17.675	3.683	20.8	17.73	12.37 - 22.98

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	54	0.045	0.028	61.8	0.04	0.00 - 0.95	54	18.847	2.137	11.3	18.19	13.19 - 24.51
All TOSOH Instruments	14	0.057	0.025	43.1	0.05	0.00 - 0.96	16	16.938	0.791	4.7	17.06	11.85 - 22.02
Beckman ACCESS Hybritech PSA	10	0.067	0.124	185.8	0.03	0.00 - 0.97	10	21.171	0.980	4.6	21.17	14.81 - 27.53
TOSOH ST AIA	11	0.059	0.016	27.8	0.05	0.00 - 0.96	12	17.088	0.636	3.7	17.06	11.96 - 22.22

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	6	0.98	0.62	62.8	1.1	0.0 - 2.3	6	43.48	6.68	15.4	45.5	30.1 - 56.9

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	11	9.16	1.53	16.7	10.7	6.4 - 12.0	11	18.04	3.49	19.3	22.9	12.6 - 23.5

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	44	178.9	72.4	40.4	148	34 - 324	44	298.6	111.1	37.2	235	76 - 521
All TOSOH Instruments	11	297.2	17.0	5.7	295	263 - 332	11	477.4	22.2	4.6	470	432 - 522

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	65	92.1	15.0	16.3	73	64 - 120	64	171.8	28.0	16.3	139	120 - 224
All Abbott Instruments	11	115.4	6.8	5.9	114	80 - 150	11	216.1	15.7	7.3	210	151 - 281
All Roche Elecsys/Cobas Instruments	10	97.4	6.8	7.0	98	68 - 127	10	185.0	14.6	7.9	183	129 - 241
All TOSOH Instruments	31	63.9	3.0	4.7	64	44 - 84	31	122.7	5.3	4.3	122	85 - 160
Abbott Architect	11	115.4	6.8	5.9	114	80 - 150	11	216.1	15.7	7.3	210	151 - 281
Beckman ACCESS / 2 / Dxl	33	70.0	4.4	6.3	70	48 - 91	34	132.6	9.0	6.8	132	92 - 173
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	15	91.9	3.2	3.5	92	64 - 120	15	168.7	6.6	3.9	169	118 - 220
TOSOH AIA	13	63.7	3.2	5.0	64	44 - 83	13	122.3	4.5	3.7	122	85 - 160
TOSOH ST AIA	18	64.1	3.0	4.6	64	44 - 84	18	123.1	6.0	4.8	122	86 - 160

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	32	2.49	0.52	21.0	2.5	1.5 - 3.4	32	4.83	0.88	18.3	4.7	3.3 - 6.3
All TOSOH Instruments	14	2.04	0.67	32.9	1.9	1.1 - 3.0	12	3.10	0.72	23.1	2.8	2.1 - 4.1
Beckman ACCESS / 2 / Dxl	34	2.56	0.34	13.2	2.6	1.6 - 3.5	34	4.82	0.46	9.6	4.8	3.3 - 6.3
TOSOH AIA	12	2.06	0.69	33.6	1.9	1.1 - 3.0	10	3.07	0.73	23.7	2.8	2.1 - 4.0

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	53	19.78	2.00	10.1	20.0	14.8 - 24.8	53	31.46	3.09	9.8	31.6	23.5 - 39.4
All TOSOH Instruments	11	20.66	1.63	7.9	20.9	15.4 - 25.9	11	31.65	2.43	7.7	31.8	23.7 - 39.6
Beckman ACCESS / 2 / Dxl	13	19.98	1.08	5.4	19.8	14.9 - 25.0	13	31.85	1.86	5.8	31.5	23.8 - 39.9

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	11	17.2	1.9	11.3	16	13 - 21	11	25.9	2.4	9.4	25	20 - 32

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	46	16.49	3.71	22.5	15.8	9.0 - 24.0	46	28.65	6.52	22.7	26.5	15.6 - 41.7
Beckman ACCESS / 2 / Dxl	12	13.32	0.86	6.5	13.5	11.5 - 15.1	12	22.53	1.22	5.4	22.7	20.0 - 25.0

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	17.53	3.63	20.7	18.2	12.2 - 22.8	30	28.50	6.17	21.6	28.5	19.9 - 37.1
All TOSOH Instruments	10	18.68	1.65	8.8	18.4	13.0 - 24.3	10	28.68	1.85	6.5	28.5	20.0 - 37.3

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	35	6.39	1.10	17.2	6.2	2.7 - 10.0	35	9.74	1.70	17.5	9.4	6.1 - 13.4
Beckman ACCESS / 2 / Dxl	10	6.48	0.65	10.1	6.3	2.8 - 10.1	10	9.80	0.99	10.1	9.5	6.2 - 13.4

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	90	460.8	95.7	20.8	478	322 - 600	88	734.4	135.0	18.4	779	514 - 955
All Immulite Instruments	10	540.3	100.3	18.6	539	378 - 703	10	853.0	175.8	20.6	852	597 - 1109
All TOSOH Instruments	20	547.6	38.7	7.1	542	383 - 712	20	866.4	53.5	6.2	846	606 - 1127
Beckman ACCESS / 2 / Dxl	30	374.8	18.8	5.0	373	262 - 488	30	614.3	34.7	5.6	612	429 - 799
TOSOH ST AIA	12	540.8	25.2	4.7	538	378 - 704	12	855.2	34.5	4.0	846	598 - 1112

Transferrin (mg/dL)

Specimen SC-3							Specimen SC-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	12	121.8	4.3	3.5	123	113 - 131	12	172.6	7.1	4.1	175	160 - 185

Vitamin B₁₂ (pg/mL)

Specimen SC-3							Specimen SC-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	100	679.8	79.4	11.7	676	475 - 884	99	912.9	86.2	9.4	912	639 - 1187
All Roche Elecsys/Cobas Instruments	10	652.5	29.7	4.5	658	456 - 849	10	935.4	51.6	5.5	923	654 - 1217
All TOSOH Instruments	20	749.2	63.1	8.4	734	524 - 974	20	961.3	72.8	7.6	987	672 - 1250
Abbott Architect	13	682.8	57.6	8.4	683	477 - 888	13	923.1	81.6	8.8	941	646 - 1201
Beckman ACCESS / 2 / Dxl	37	626.3	57.6	9.2	630	438 - 815	38	877.3	83.0	9.5	879	614 - 1141
TOSOH AIA	17	755.4	64.4	8.5	740	528 - 982	17	971.6	67.6	7.0	996	680 - 1264

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	75.5	6.3	8.4	75	56 - 95	6	109.7	8.9	8.1	109	82 - 138
Roche Integra	5	75.2	1.8	2.4	75	56 - 94	5	109.0	1.6	1.5	109	81 - 137

Specimen ETH-8							Specimen ETH-9					
<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	343.7	33.6	9.8	350	257 - 430	6	109.5	7.4	6.7	110	82 - 137
Roche Integra	5	351.4	4.7	1.3	350	263 - 440	5	110.4	1.5	1.4	111	82 - 138

Specimen ETH-10												
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	135.5	9.0	6.7	134	101 - 170						
Roche Integra	5	134.4	2.9	2.1	134	100 - 168						

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	11	-	3	6	2	11	11	-	-	-
Bayer Acetest	10	-	2	6	2	10	10	-	-	-
Siemens Dimension/AR/ES/RxL/Xpand/EXL	1	-	1	-	-	1	1	-	-	-
Specimen ETH-8						Specimen ETH-9				
ALL METHODS	11	11	-	-	-	11	11	-	-	-
Bayer Acetest	10	10	-	-	-	10	10	-	-	-
Siemens Dimension/AR/ES/RxL/Xpand/EXL	1	1	-	-	-	1	1	-	-	-
Specimen ETH-10										
ALL METHODS	11	-	2	7	2					
Bayer Acetest	10	-	2	6	2					
Siemens Dimension/AR/ES/RxL/Xpand/EXL	1	-	-	1	-					

Anti-Thyroglobulin Antibody (IU/mL)

Specimen THY-3							Specimen THY-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	19	2013.8	754.3	37.5	2261	505 - 3523	19	8.2	9.8	118.8	1	0 - 28

Anti-Microsomal Antibody (IU/mL)

Specimen THY-3							Specimen THY-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	23	102.6	65.0	63.4	85	0 - 233	22	5.5	7.6	138.7	1	0 - 21

Urine Drug Screen

Acetaminophen

<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	3	2	5	-	5
BioSite Diagnostics Triage	5	3	2	5	-	5

Amphetamines

<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	102	-	102	101	-	101
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BioSite Diagnostics Triage	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	3	-	3	3	-	3
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	3	-	3	3	-	3
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	9	-	9	9	-	9
Instant Technologies iCup	11	-	11	10	-	10
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	11	-	11	11	-	11
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	11	-	11	11	-	11
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens Dimension	1	-	1	1	-	1

Barbiturates

<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	90	-	90	89	-	89
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BioSite Diagnostics Triage	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	3	-	3	3	-	3
Dade Behring EMIT II Plus	3	-	3	3	-	3
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	2	-	2	2	-	2
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	9	-	9	9	-	9
Instant Technologies iCup	10	-	10	9	-	9
Lin-Zhi International	9	-	9	9	-	9
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2
Siemens Dimension	1	-	1	1	-	1

Benzodiazepines

<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	100	-	100	100	96	4
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman AU	1	-	1	1	1	-
Beckman Synchron	1	-	1	1	1	-
Bio-Rad TOX/See	3	-	3	3	3	-
BioSite Diagnostics Triage	3	-	3	3	3	-
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	3	-	3	3	3	-
Dade Behring EMIT II Plus	4	-	4	4	4	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	2	-	2	2	2	-
InstaCheck Drug Screen	1	-	1	1	1	-
Instant Technologies i Cassette	6	-	6	6	6	-
Instant Technologies i Screen	9	-	9	9	9	-
Instant Technologies iCup	10	-	10	10	9	1
Lin-Zhi International	11	-	11	11	11	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	11	-	11	11	11	-
Mindray BS-200	1	-	1	1	1	-
Redwood Toxicology Reditest	2	-	2	2	2	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	2	-	2	2	2	-

Buprenorphine

<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	31	-	31	31	30	1
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
Dade Behring EMIT II Plus	1	-	1	1	1	-
Instant Technologies iCup	1	-	1	1	1	-
Lin-Zhi International	7	-	7	7	7	-
MEDTOX Diagnostics	2	-	2	2	2	-
Microgenics CEDIA	5	-	5	5	5	-
Microgenics DRI	2	-	2	2	2	-
Mindray BS-200	1	-	1	1	1	-

Cannabinoids (THC)

<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	103	103	-	103	2	101
Alfa Scientific Instant-View	1	1	-	1	-	1
Bayer ADVIA 1200	1	1	-	1	1	-
Beckman AU	1	1	-	1	-	1
Beckman Synchron	1	1	-	1	-	1
Bio-Rad TOX/See	3	3	-	3	-	3
BioSite Diagnostics Triage	3	3	-	3	-	3
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	3	3	-	3	-	3
Dade Behring EMIT II Plus	4	4	-	4	-	4
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	4	4	-	4	-	4
InstaCheck Drug Screen	2	2	-	2	-	2
Instant Technologies i Cassette	6	6	-	6	-	6
Instant Technologies i Screen	9	9	-	9	-	9
Instant Technologies iCup	11	11	-	12	1	11
Integrated E-Z Split Key Cup / II	2	2	-	2	-	2
Lin-Zhi International	10	10	-	10	-	10
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	10	10	-	10	-	10
Mindray BS-200	1	1	-	1	-	1
Noble Medical Inc.	2	2	-	1	-	1
Redwood Toxicology Reditest	2	2	-	2	-	2
Roche Integra	2	2	-	2	-	2
Siemens Dimension	1	1	-	1	-	1

Cocaine Metabolites

<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	106	-	106
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BioSite Diagnostics Triage	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	3	-	3	3	-	3
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	3	-	3	3	-	3
InstaCheck Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	9	-	9	9	-	9
Instant Technologies iCup	12	-	12	11	-	11
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Lin-Zhi International	11	-	11	11	-	11
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	11	-	11	11	-	11
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2
Siemens Dimension	2	-	2	2	-	2

Cotinine

<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

<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	3	-	3	3	2	1
Lin-Zhi International	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-

Ethanol (Alcohol)

<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	23	1	24	23	1
Beckman AU	1	1	-	1	1	-
Carolina Chemistries BioLis 24i	2	2	-	2	2	-
Dade Behring EMIT II Plus	3	3	-	3	3	-
Lin-Zhi International	10	10	-	10	10	-
Microgenics DRI	4	4	-	4	4	-
Roche Integra	1	1	-	1	1	-

LSD

<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

<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	47	-	47	47	-	47
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Dade Behring EMIT II Plus	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies i Screen	3	-	3	3	-	3
Instant Technologies iCup	7	-	7	8	-	8
Lin-Zhi International	8	-	8	8	-	8
Microgenics DRI	2	-	2	2	-	2
Redwood Toxicology Reditest	2	-	2	2	-	2

Methadone

<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	81	-	81	81	5	76
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman AU	1	-	1	1	1	-
Bio-Rad TOX/See	3	-	3	3	-	3
BioSite Diagnostics Triage	2	-	2	2	-	2
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	3	-	3	3	-	3
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	2	-	2	2	-	2
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies i Screen	4	-	4	4	-	4
Instant Technologies iCup	10	-	10	10	-	10
Lin-Zhi International	7	-	7	7	-	7
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	10	-	10	10	-	10
Mindray BS-200	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2
Siemens Dimension	2	-	2	2	-	2

Methamphetamines

<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	60	-	60	60	-	60
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BioSite Diagnostics Triage	1	-	1	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	3	-	3	3	-	3
InstaCheck Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies i Screen	9	-	9	9	-	9
Instant Technologies iCup	11	-	11	11	-	11
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	2	-	2	2	-	2
MEDTOX Diagnostics	3	-	3	3	-	3
Redwood Toxicology Reditest	2	-	2	2	-	2

Methanol

<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

Methaqualone

<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	1	1	2	1	1
Dade Behring EMIT II Plus	1	1	-	1	1	-

Morphine (6-MAM)

<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
Alfa Scientific Instant-View	1	-	1	1	-	1
Instant Technologies iCup	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1

Opiates (Morphine Trihydrate)

<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	103	-	103	104	-	104
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
Bio-Rad TOX/See	3	-	3	3	-	3
BioSite Diagnostics Triage	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	3	-	3	3	-	3
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	3	-	3	3	-	3
InstaCheck Drug Screen	1	-	1	2	-	2
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	9	-	9	9	-	9
Instant Technologies iCup	10	-	10	10	-	10
Integrated E-Z Split Key Cup / II	2	-	2	2	-	2
Lin-Zhi International	11	-	11	11	-	11
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	11	-	11	11	-	11
Mindray BS-200	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	2	-	2	2	-	2
Roche Integra	2	-	2	2	-	2
Siemens Dimension	2	-	2	2	-	2

Oxycodone

<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	77	75	2	75	-	75
Alfa Scientific Instant-View	1	1	-	1	-	1
Beckman AU	1	1	-	1	-	1
Bio-Rad TOX/See	3	3	-	3	-	3
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	3	3	-	3	-	3
Dade Behring EMIT II Plus	2	2	-	2	-	2
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	5	5	-	5	-	5
Instant Technologies iCup	11	9	2	9	-	9
Lin-Zhi International	10	10	-	10	-	10
MEDTOX Diagnostics	3	3	-	3	-	3
Microgenics DRI	12	12	-	12	-	12
Mindray BS-200	1	1	-	1	-	1
Redwood Toxicology Reditest	2	2	-	2	-	2
Roche Integra	2	2	-	2	-	2

Phencyclidine (PCP)

<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	77	-	77	78	75	3
Alfa Scientific Instant-View	1	-	1	1	1	-
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman AU	1	-	1	1	1	-
Bio-Rad TOX/See	3	-	3	3	2	1
BioSite Diagnostics Triage	2	-	2	2	2	-
Carolina Chemistries BioLis 24i	3	-	3	3	3	-
Dade Behring EMIT II Plus	3	-	3	3	3	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	3	-	3	3	3	-
InstaCheck Drug Screen	2	-	2	2	2	-
Instant Technologies i Cassette	6	-	6	6	6	-
Instant Technologies i Screen	9	-	9	9	9	-
Instant Technologies iCup	6	-	6	6	5	1
Integrated E-Z Split Key Cup / II	2	-	2	2	2	-
Lin-Zhi International	3	-	3	3	3	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	4	-	4	4	4	-
Mindray BS-200	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	2	2	-
Redwood Toxicology Reditest	2	-	2	2	2	-
Roche Integra	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-

Propoxyphene

<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
Bayer ADVIA 1200	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	3	-	3	3	-	3
Dade Behring EMIT II Plus	4	-	4	4	-	4
Instant Technologies i Cassette	4	-	4	4	-	4
Instant Technologies iCup	1	-	1	1	-	1
Lin-Zhi International	2	-	2	2	-	2
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	2	-	2	2	-	2
Redwood Toxicology Reditest	1	-	1	1	-	1

Tricyclic Antidepressants

<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	31	-	31	31	30	1
Alfa Scientific Instant-View	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
Bio-Rad TOX/See	3	-	3	3	3	-
BioSite Diagnostics Triage	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
InstaCheck Drug Screen	1	-	1	1	1	-
Instant Technologies i Cassette	3	-	3	3	3	-
Instant Technologies iCup	5	-	5	5	4	1
MEDTOX Diagnostics	3	-	3	3	3	-
Microgenics DRI	1	-	1	1	1	-

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	9	283.2	11.1	3.9	287	261 - 306	9	65.7	4.4	6.7	67	56 - 75
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	284.6	14.4	5.1	288	255 - 314	5	67.4	3.3	4.9	69	60 - 74

Whole Blood Glucose (mg/dL)

Specimen WBG-6							Specimen WBG-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	402	251.5	43.3	17.2	247	201 - 302	418	117.5	22.0	18.7	116	94 - 142
All Arkray Methods	30	469.5	62.1	13.2	479	375 - 564	30	169.4	20.7	12.2	174	135 - 204
All Bayer Methods	92	206.9	23.5	11.3	202	165 - 249	99	93.8	9.8	10.5	90	75 - 113
All Hemocue Methods	46	254.7	5.8	2.3	255	203 - 306	44	139.3	4.6	3.3	139	111 - 168
All Lifescan Methods	51	283.3	19.9	7.0	286	226 - 340	51	130.2	7.7	5.9	132	104 - 157
All Medisense Methods	29	286.1	13.6	4.8	287	228 - 344	29	127.9	7.1	5.6	129	102 - 154
All Roche Methods	87	241.3	9.5	3.9	241	193 - 290	87	109.2	9.5	8.7	110	87 - 132
Abbott FreeStyle Lite	16	244.4	6.2	2.5	246	195 - 294	16	115.2	3.4	2.9	116	92 - 139
Arkray Platinum	21	499.7	39.4	7.9	496	399 - 600	21	178.0	10.5	5.9	177	142 - 214
Bayer Contour	92	206.9	23.5	11.3	202	165 - 249	99	93.8	9.8	10.5	90	75 - 113
HemoCue 201	45	254.6	5.9	2.3	255	203 - 306	43	139.1	4.5	3.3	139	111 - 167
Home Diagnostics TrueTrack / TrueBalance	17	592.1	9.9	1.7	595	473 - 711	18	341.2	15.5	4.6	346	272 - 410
Lifescan One Touch Ultra/2/Mini	42	282.9	18.1	6.4	286	226 - 340	42	129.7	6.5	5.0	132	103 - 156
Medisense Precision XceedPro	19	284.8	13.7	4.8	284	227 - 342	19	124.8	6.1	4.9	125	99 - 150
NOVA Biomedical StatStrip	21	224.5	13.9	6.2	223	179 - 270	21	106.4	6.8	6.4	105	85 - 128
PSS Quintet Glucose Monitoring System	20	280.2	23.6	8.4	270	224 - 337	20	121.9	13.3	10.9	115	97 - 147
Roche Accu-Chek Advantage/Comp/GTS	40	237.1	8.9	3.7	237	189 - 285	40	101.4	5.7	5.6	102	81 - 122
Roche Accu-Chek Aviva	30	241.8	6.0	2.5	242	193 - 291	29	114.9	4.5	3.9	115	91 - 138
Roche Accu-Chek Inform II	12	254.6	6.9	2.7	258	203 - 306	12	121.5	4.2	3.5	122	97 - 146
Specimen WBG-8							Specimen WBG-9					
All Method	24	362.4	34.0	9.4	370	289 - 435	24	209.5	22.9	10.9	215	167 - 252
All Bayer Methods	1	-	-	-	279	223 - 335	1	-	-	-	144	115 - 173
All Lifescan Methods	17	368.7	20.2	5.5	372	294 - 443	17	215.1	8.0	3.7	216	172 - 259
All Roche Methods	1	-	-	-	348	278 - 418	1	-	-	-	195	156 - 234
Bayer Contour	1	-	-	-	279	289 - 435	1	-	-	-	144	167 - 252
Home Diagnostics TrueTrack / TrueBalance	-	-	-	-	-	Not graded	1	-	-	-	503	Not graded
Lifescan One Touch Ultra/2/Mini	16	371.1	18.3	4.9	373	296 - 446	16	214.8	8.2	3.8	216	171 - 258
PSS Quintet Glucose Monitoring System	1	-	-	-	350	289 - 435	1	-	-	-	179	167 - 252
Roche Accu-Chek Inform II	1	-	-	-	348	289 - 435	1	-	-	-	195	167 - 252
Specimen WBG-10												
All Method	24	97.1	9.8	10.1	98	77 - 117						
All Bayer Methods	1	-	-	-	69	55 - 83						
All Lifescan Methods	16	99.5	3.0	3.0	100	79 - 120						
All Roche Methods	1	-	-	-	96	76 - 116						
Bayer Contour	1	-	-	-	69	77 - 117						
Home Diagnostics TrueTrack / TrueBalance	1	-	-	-	287	Not graded						
Lifescan One Touch Ultra/2/Mini	15	99.8	2.9	2.9	101	79 - 120						
PSS Quintet Glucose Monitoring System	1	-	-	-	84	77 - 117						
Roche Accu-Chek Inform II	1	-	-	-	96	77 - 117						

Fructosamine (mmol/L)

<u>Method</u>	Specimen FR-3						Specimen FR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.598	0.113	7.1	1.60	1.11 - 2.08	5	0.265	0.158	59.5	0.20	0.00 - 0.72

Fructosamine (μmol/L)

<u>Method</u>	Specimen FR-3						Specimen FR-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	1015.2	341.4	33.6	888	710 - 1320	6	127.5	33.1	26.0	110	82 - 173

d-Dimer (ng/mL)

<u>Method</u>	Specimen DMR-3						Specimen DMR-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	1427.5	545.7	38.2	1582	336 - 2519	5	2458.0	1109.7	45.1	2763	238 - 4678

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