

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
MLE-M1

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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	$\pm 30\%$	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-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	84	134.9	1.1	0.8	135	130 - 139	82	106.2	0.6	0.6	106	102 - 111
All i-STAT Instruments	84	134.9	1.1	0.8	135	130 - 139	82	106.2	0.6	0.6	106	102 - 111
i-STAT - moderate	12	135.0	1.1	0.8	135	131 - 139	12	105.9	0.9	0.9	106	101 - 110
i-STAT - waived	72	134.9	1.1	0.8	135	130 - 139	71	106.2	0.6	0.6	106	102 - 111
	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	73	163.3	1.8	1.1	164	159 - 168	71	138.2	1.1	0.8	138	134 - 143
All i-STAT Instruments	73	163.3	1.8	1.1	164	159 - 168	71	138.2	1.1	0.8	138	134 - 143
i-STAT - moderate	11	161.9	1.6	1.0	162	157 - 166	11	138.5	0.8	0.6	139	134 - 143
i-STAT - waived	62	163.5	1.8	1.1	164	159 - 168	60	138.2	1.1	0.8	138	134 - 143
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	72	118.2	0.6	0.5	118	114 - 123						
All i-STAT Instruments	72	118.2	0.6	0.5	118	114 - 123						
i-STAT - moderate	11	118.1	0.8	0.7	118	114 - 123						
i-STAT - waived	61	118.2	0.6	0.5	118	114 - 123						

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	84	3.55	0.05	1.4	3.6	3.0 - 4.1	84	2.46	0.05	2.0	2.5	1.9 - 3.0
All i-STAT Instruments	84	3.55	0.05	1.4	3.6	3.0 - 4.1	84	2.46	0.05	2.0	2.5	1.9 - 3.0
i-STAT - moderate	12	3.55	0.05	1.5	3.6	3.0 - 4.1	12	2.45	0.05	2.1	2.5	1.9 - 3.0
i-STAT - waived	72	3.55	0.05	1.4	3.6	3.0 - 4.1	72	2.46	0.05	2.0	2.5	1.9 - 3.0
	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	73	6.75	0.09	1.3	6.8	6.2 - 7.3	66	4.30	0.00	0.0	4.3	3.8 - 4.8
All i-STAT Instruments	73	6.75	0.09	1.3	6.8	6.2 - 7.3	66	4.30	0.00	0.0	4.3	3.8 - 4.8
i-STAT - moderate	11	6.71	0.09	1.4	6.7	6.2 - 7.3	11	4.30	0.04	1.0	4.3	3.8 - 4.8
i-STAT - waived	62	6.76	0.09	1.3	6.8	6.2 - 7.3	57	4.30	0.00	0.0	4.3	3.8 - 4.8
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	66	2.70	0.00	0.0	2.7	2.2 - 3.2						
All i-STAT Instruments	66	2.70	0.00	0.0	2.7	2.2 - 3.2						
i-STAT - moderate	11	2.68	0.04	1.5	2.7	2.1 - 3.2						
i-STAT - waived	57	2.70	0.00	0.0	2.7	2.2 - 3.2						

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	81	102.4	1.6	1.6	102	97 - 108	79	109.3	1.0	0.9	109	103 - 115
All i-STAT Instruments	81	102.4	1.6	1.6	102	97 - 108	79	109.3	1.0	0.9	109	103 - 115
i-STAT - moderate	11	102.3	1.2	1.2	102	97 - 108	11	109.4	0.9	0.8	109	103 - 115
i-STAT - waived	70	102.4	1.7	1.7	102	97 - 108	68	109.2	1.0	0.9	109	103 - 115
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	71	122.7	3.0	2.5	122	116 - 129	71	108.1	1.8	1.7	108	102 - 114
All i-STAT Instruments	71	122.7	3.0	2.5	122	116 - 129	71	108.1	1.8	1.7	108	102 - 114
i-STAT - moderate	10	124.3	2.8	2.2	125	118 - 131	10	107.6	1.3	1.2	108	102 - 113
i-STAT - waived	61	122.5	3.0	2.5	122	116 - 129	61	108.2	1.9	1.7	108	102 - 114
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	70	82.0	0.9	1.1	82	77 - 87						
All i-STAT Instruments	70	82.0	0.9	1.1	82	77 - 87						
i-STAT - moderate	10	82.0	0.9	1.1	82	77 - 87						
i-STAT - waived	60	82.0	0.9	1.1	82	77 - 87						

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	73	25.3	0.9	3.7	25	20 - 31	69	14.1	0.8	5.5	14	11 - 17
All i-STAT Instruments	73	25.3	0.9	3.7	25	20 - 31	69	14.1	0.8	5.5	14	11 - 17
i-STAT - waived	65	25.2	1.0	3.8	25	20 - 31	61	14.1	0.8	5.7	14	11 - 17
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	66	48.7	1.4	2.9	49	38 - 59	65	31.4	1.1	3.5	31	25 - 38
All i-STAT Instruments	66	48.7	1.4	2.9	49	38 - 59	65	31.4	1.1	3.5	31	25 - 38
i-STAT - waived	59	48.6	1.4	3.0	49	38 - 59	59	31.4	1.2	3.8	31	25 - 38
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	66	20.0	0.7	3.7	20	15 - 24						
All i-STAT Instruments	66	20.0	0.7	3.7	20	15 - 24						
i-STAT - waived	59	20.0	0.8	3.8	20	16 - 24						

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	81	11.7	0.4	3.8	12	9 - 14	81	106.3	2.4	2.3	107	96 - 116
All i-STAT Instruments	81	11.7	0.4	3.8	12	9 - 14	81	106.3	2.4	2.3	107	96 - 116
i-STAT - moderate	11	12.0	0.0	0.0	12	10 - 14	11	106.9	1.6	1.5	107	97 - 117
i-STAT - waived	70	11.7	0.5	3.9	12	9 - 14	70	106.2	2.5	2.4	106	96 - 116
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	71	8.6	0.5	5.8	9	6 - 11	71	11.1	0.4	3.5	11	9 - 14
All i-STAT Instruments	71	8.6	0.5	5.8	9	6 - 11	71	11.1	0.4	3.5	11	9 - 14
i-STAT - moderate	10	8.6	0.5	6.0	9	6 - 11	10	11.3	0.5	4.3	11	9 - 14
i-STAT - waived	61	8.6	0.5	5.8	9	6 - 11	60	11.1	0.3	3.1	11	9 - 14
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	71	62.2	1.1	1.8	62	56 - 68						
All i-STAT Instruments	71	62.2	1.1	1.8	62	56 - 68						
i-STAT - moderate	10	62.7	0.9	1.5	63	57 - 69						
i-STAT - waived	61	62.1	1.2	1.9	62	56 - 68						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	80	131.1	2.5	1.9	131	117 - 145	82	574.1	8.4	1.5	574	516 - 632
All i-STAT Instruments	80	131.1	2.5	1.9	131	117 - 145	82	574.1	8.4	1.5	574	516 - 632
i-STAT - moderate	11	132.9	4.0	3.0	131	119 - 147	11	576.7	10.4	1.8	580	519 - 635
i-STAT - waived	67	130.6	1.8	1.3	130	117 - 144	71	573.7	8.1	1.4	574	516 - 632
<u>Instrument</u>	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	71	23.8	1.8	7.4	23	17 - 30	68	89.9	1.9	2.1	90	80 - 99
All i-STAT Instruments	71	23.8	1.8	7.4	23	17 - 30	68	89.9	1.9	2.1	90	80 - 99
i-STAT - moderate	10	24.5	1.5	6.2	24	18 - 31	10	92.3	3.3	3.6	91	83 - 102
i-STAT - waived	60	23.6	1.6	7.0	23	17 - 30	59	89.6	1.6	1.8	89	80 - 99
<u>Instrument</u>	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	71	296.3	2.7	0.9	296	266 - 326						
All i-STAT Instruments	71	296.3	2.7	0.9	296	266 - 326						
i-STAT - moderate	10	297.1	3.2	1.1	298	267 - 327						
i-STAT - waived	61	296.1	2.6	0.9	296	266 - 326						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	11.64	0.27	2.3	11.6	10.8 - 12.5	22	4.97	0.23	4.7	5.1	4.6 - 5.4
All i-STAT Instruments	22	11.64	0.27	2.3	11.6	10.8 - 12.5	22	4.97	0.23	4.7	5.1	4.6 - 5.4
i-STAT - waived	17	11.62	0.24	2.1	11.6	10.8 - 12.5	17	4.97	0.23	4.6	5.1	4.6 - 5.4
	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	19.73	0.33	1.7	19.7	18.3 - 21.2	15	13.14	0.27	2.0	13.3	12.2 - 14.1
All i-STAT Instruments	15	19.73	0.33	1.7	19.7	18.3 - 21.2	15	13.14	0.27	2.0	13.3	12.2 - 14.1
i-STAT - waived	11	19.75	0.34	1.7	19.7	18.3 - 21.2	11	13.15	0.29	2.2	13.3	12.2 - 14.1
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	5.38	0.26	4.8	5.4	5.0 - 5.8						
All i-STAT Instruments	15	5.38	0.26	4.8	5.4	5.0 - 5.8						
i-STAT - waived	11	5.39	0.24	4.5	5.4	5.0 - 5.8						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	34.2	0.8	2.3	34	32 - 37	22	14.6	0.7	5.0	15	13 - 16
All i-STAT Instruments	22	34.2	0.8	2.3	34	32 - 37	22	14.6	0.7	5.0	15	13 - 16
i-STAT - waived	17	34.1	0.7	2.0	34	32 - 37	17	14.6	0.7	4.9	15	13 - 16
	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	58.0	0.9	1.6	58	54 - 62	15	38.6	0.7	1.9	39	36 - 41
All i-STAT Instruments	15	58.0	0.9	1.6	58	54 - 62	15	38.6	0.7	1.9	39	36 - 41
i-STAT - waived	11	58.1	0.9	1.6	58	54 - 62	11	38.6	0.8	2.1	39	36 - 41
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	15.9	0.7	4.7	16	14 - 17						
All i-STAT Instruments	15	15.9	0.7	4.7	16	14 - 17						
i-STAT - waived	11	15.9	0.7	4.4	16	14 - 17						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	1.79	0.08	4.3	1.8	1.4 - 2.1	92	0.79	0.07	9.3	0.8	0.4 - 1.1
All i-STAT Instruments	91	1.79	0.08	4.3	1.8	1.4 - 2.1	92	0.79	0.07	9.3	0.8	0.4 - 1.1
i-STAT - moderate	10	1.81	0.07	4.1	1.8	1.5 - 2.2	10	0.80	0.07	8.3	0.8	0.5 - 1.1
i-STAT - waived	81	1.79	0.08	4.3	1.8	1.4 - 2.1	82	0.79	0.07	9.5	0.8	0.4 - 1.1
	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	72	0.46	0.06	12.7	0.5	0.1 - 0.8	72	1.45	0.06	4.2	1.4	1.1 - 1.8
All i-STAT Instruments	72	0.46	0.06	12.7	0.5	0.1 - 0.8	72	1.45	0.06	4.2	1.4	1.1 - 1.8
i-STAT - moderate	9	-	-	-	0.5	0.1 - 0.8	9	-	-	-	1.4	1.1 - 1.8
i-STAT - waived	63	0.46	0.06	13.0	0.5	0.1 - 0.8	63	1.45	0.06	4.1	1.5	1.1 - 1.8
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	72	3.59	0.17	4.6	3.6	3.0 - 4.2						
All i-STAT Instruments	72	3.59	0.17	4.6	3.6	3.0 - 4.2						
i-STAT - moderate	9	-	-	-	3.5	3.0 - 4.2						
i-STAT - waived	62	3.60	0.15	4.2	3.6	3.0 - 4.2						

Ionized Calcium (mmol/L)

<u>Instrument</u>	Specimen IST-1						Specimen IST-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	71	1.138	0.021	1.9	1.14	1.07 - 1.21	70	2.177	0.031	1.4	2.18	2.08 - 2.27
All i-STAT Instruments	71	1.138	0.021	1.9	1.14	1.07 - 1.21	70	2.177	0.031	1.4	2.18	2.08 - 2.27
i-STAT - waived	64	1.137	0.022	1.9	1.14	1.07 - 1.21	63	2.174	0.031	1.4	2.18	2.08 - 2.27
	Specimen IST-3						Specimen IST-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	0.490	0.014	2.9	0.49	0.44 - 0.54	64	0.930	0.016	1.7	0.93	0.88 - 0.98
All i-STAT Instruments	64	0.490	0.014	2.9	0.49	0.44 - 0.54	64	0.930	0.016	1.7	0.93	0.88 - 0.98
i-STAT - waived	58	0.491	0.014	2.9	0.49	0.44 - 0.54	58	0.929	0.016	1.7	0.93	0.88 - 0.98
	Specimen IST-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	64	1.385	0.015	1.1	1.39	1.33 - 1.44						
All i-STAT Instruments	64	1.385	0.015	1.1	1.39	1.33 - 1.44						
i-STAT - waived	58	1.384	0.015	1.1	1.39	1.33 - 1.43						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	336	2.18	0.31	14.3	2.3	1.9 - 2.4	336	1.50	0.23	15.1	1.6	1.3 - 1.7
All Bromocresol Green Reagents	223	2.38	0.11	4.8	2.4	2.1 - 2.7	221	1.63	0.09	5.8	1.6	1.4 - 1.8
All Bromocresol Purple Reagents	109	1.77	0.12	6.5	1.7	1.5 - 2.0	109	1.22	0.14	11.2	1.2	1.0 - 1.4
Abaxis Piccolo												
Abaxis Piccolo - waived	20	1.91	0.09	4.8	1.9	1.7 - 2.2	20	1.40	0.08	5.7	1.4	1.2 - 1.6
Abaxis Piccolo	13	1.88	0.06	3.2	1.9	1.6 - 2.1	13	1.38	0.07	5.3	1.4	1.2 - 1.6
All Chemistry Instruments	33	1.90	0.08	4.3	1.9	1.7 - 2.1	33	1.39	0.08	5.5	1.4	1.2 - 1.6
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	37	2.40	0.09	3.6	2.4	2.1 - 2.7	35	1.69	0.04	2.6	1.7	1.5 - 1.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	2.42	0.07	2.7	2.4	2.1 - 2.7	23	1.69	0.06	3.7	1.7	1.5 - 1.9
Beckman AU												
Beckman AU systems	28	2.37	0.09	3.6	2.4	2.1 - 2.7	29	1.57	0.07	4.5	1.6	1.4 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	2.46	0.12	4.7	2.4	2.2 - 2.8	20	1.71	0.06	3.5	1.7	1.5 - 1.9
Roche Integra												
Roche Integra	31	2.42	0.06	2.5	2.4	2.1 - 2.7	30	1.64	0.06	3.5	1.6	1.4 - 1.9
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	1.70	0.05	3.1	1.7	1.5 - 1.9	59	1.13	0.05	4.8	1.1	1.0 - 1.3
All Chemistry Instruments	60	1.70	0.05	3.1	1.7	1.5 - 1.9	60	1.13	0.05	4.8	1.1	1.0 - 1.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	2.36	0.07	3.0	2.4	2.1 - 2.6	16	1.53	0.06	3.8	1.5	1.3 - 1.7
All Chemistry Instruments	18	2.36	0.07	3.0	2.3	2.1 - 2.6	18	1.52	0.05	3.6	1.5	1.3 - 1.7
VITROS												
VITROS 250,350,500,700,750,950	33	2.20	0.07	3.0	2.2	1.9 - 2.5	33	1.54	0.06	4.0	1.5	1.3 - 1.7
All Chemistry Instruments	38	2.21	0.07	3.4	2.2	1.9 - 2.5	38	1.54	0.06	3.9	1.5	1.3 - 1.7

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	322	4.40	0.56	12.8	4.7	3.9 - 4.9	321	2.88	0.41	14.1	3.1	2.5 - 3.2
All Bromocresol Green Reagents	224	4.75	0.19	3.9	4.7	4.2 - 5.3	221	3.13	0.11	3.5	3.1	2.8 - 3.5
All Bromocresol Purple Reagents	94	3.59	0.13	3.7	3.6	3.2 - 4.0	93	2.29	0.08	3.4	2.3	2.0 - 2.6
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	3.5	3.2 - 4.0	7	-	-	-	2.3	2.0 - 2.6
Abaxis Piccolo	11	3.55	0.18	4.9	3.6	3.1 - 4.0	11	2.32	0.06	2.6	2.3	2.0 - 2.6
All Chemistry Instruments	17	3.58	0.10	2.7	3.6	3.2 - 4.0	18	2.32	0.05	2.4	2.3	2.0 - 2.6
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	37	4.66	0.13	2.7	4.7	4.1 - 5.2	37	3.13	0.08	2.5	3.1	2.8 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	4.70	0.15	3.3	4.7	4.2 - 5.2	23	3.15	0.10	3.3	3.2	2.8 - 3.5
Beckman AU												
Beckman AU systems	29	4.82	0.19	3.9	4.8	4.3 - 5.3	29	3.15	0.12	3.8	3.1	2.8 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	4.64	0.20	4.4	4.6	4.1 - 5.2	21	3.16	0.15	4.6	3.1	2.8 - 3.5
Roche Integra												
Roche Integra	31	4.81	0.12	2.4	4.8	4.3 - 5.3	31	3.18	0.09	2.7	3.2	2.8 - 3.5
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	3.60	0.11	3.0	3.6	3.2 - 4.0	60	2.28	0.06	2.8	2.3	2.0 - 2.6
All Chemistry Instruments	61	3.60	0.11	3.0	3.6	3.2 - 4.0	61	2.28	0.06	2.8	2.3	2.0 - 2.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	4.96	0.09	1.8	5.0	4.4 - 5.5	16	3.17	0.08	2.5	3.2	2.8 - 3.5
All Chemistry Instruments	18	4.94	0.10	2.0	5.0	4.4 - 5.5	18	3.16	0.10	3.1	3.2	2.8 - 3.5
VITROS												
VITROS 250,350,500,700,750,950	33	4.71	0.18	3.8	4.7	4.2 - 5.2	33	3.03	0.10	3.1	3.0	2.7 - 3.4
All Chemistry Instruments	38	4.72	0.18	3.7	4.7	4.2 - 5.2	38	3.04	0.10	3.3	3.0	2.7 - 3.4

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	321	2.96	0.41	13.8	3.2	2.6 - 3.3
All Bromocresol Green Reagents	221	3.21	0.11	3.4	3.2	2.8 - 3.6
All Bromocresol Purple Reagents	93	2.36	0.09	3.8	2.4	2.1 - 2.6
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	2.4	2.1 - 2.7
Abaxis Piccolo	11	2.40	0.06	2.6	2.4	2.1 - 2.7
All Chemistry Instruments	18	2.41	0.10	4.0	2.4	2.1 - 2.7
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	37	3.19	0.08	2.4	3.2	2.8 - 3.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	3.19	0.11	3.4	3.2	2.8 - 3.6
Beckman AU						
Beckman AU systems	29	3.22	0.13	4.1	3.2	2.8 - 3.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	3.23	0.13	3.9	3.2	2.9 - 3.6
Roche Integra						
Roche Integra	31	3.27	0.09	2.9	3.3	2.9 - 3.6
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	2.34	0.06	2.7	2.3	2.1 - 2.6
All Chemistry Instruments	59	2.35	0.06	2.7	2.3	2.1 - 2.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	3.27	0.08	2.4	3.3	2.9 - 3.6
All Chemistry Instruments	18	3.26	0.08	2.6	3.3	2.9 - 3.6
VITROS						
VITROS 250,350,500,700,750,950	33	3.13	0.11	3.4	3.1	2.8 - 3.5
All Chemistry Instruments	38	3.14	0.12	3.7	3.2	2.8 - 3.5

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	1.24	0.31	25.0	1.1	0.6 - 1.9	207	0.07	0.07	97.9	0.1	0.0 - 0.3
All Alfa Wassermann Reagents	34	1.64	0.12	7.5	1.7	1.3 - 1.9	34	0.16	0.05	32.3	0.2	0.0 - 0.3
All Roche Integra/c111/c501 Reagents	30	1.01	0.04	4.5	1.0	0.9 - 1.1	29	0.01	0.03	299.6	0.0	0.0 - 0.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	1.64	0.12	7.4	1.6	1.4 - 1.9	29	0.16	0.05	32.6	0.2	0.0 - 0.3
Beckman AU												
Beckman AU systems	26	1.47	0.08	5.8	1.5	1.2 - 1.7	26	0.02	0.04	209.0	0.0	0.0 - 0.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	1.54	0.09	5.8	1.5	1.3 - 1.8	15	0.10	0.00	0.0	0.1	0.1 - 0.1
Roche Integra												
Roche Integra	25	1.00	0.04	3.5	1.0	0.9 - 1.1	24	0.00	0.00	0.0	0.0	0.0 - 0.0
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	45	0.99	0.08	7.9	1.0	0.8 - 1.2	41	0.05	0.05	95.2	0.1	0.0 - 0.2
All Chemistry Instruments	48	0.99	0.08	7.6	1.0	0.8 - 1.2	44	0.05	0.05	93.4	0.1	0.0 - 0.2
Vital Diagnostics												
All Chemistry Instruments	10	1.54	0.14	9.3	1.6	1.2 - 1.9	10	0.09	0.06	63.1	0.1	0.0 - 0.3
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	16	0.86	0.15	17.4	0.9	0.5 - 1.2	13	0.02	0.04	190.0	0.0	0.0 - 0.2
All Chemistry Instruments	21	0.96	0.26	27.2	0.9	0.4 - 1.5	16	0.04	0.06	143.8	0.0	0.0 - 0.2

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	1.21	0.35	28.9	1.2	0.5 - 2.0	217	2.32	0.47	20.1	2.2	1.3 - 3.3
All Alfa Wassermann Reagents	34	1.69	0.12	7.1	1.7	1.4 - 2.0	34	2.87	0.15	5.2	2.9	2.5 - 3.2
All Roche Integra/c111/c501 Reagents	30	0.99	0.04	4.4	1.0	0.8 - 1.1	30	1.93	0.09	4.7	1.9	1.7 - 2.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	1.71	0.12	7.2	1.7	1.4 - 2.0	29	2.88	0.15	5.2	2.9	2.5 - 3.2
Beckman AU												
Beckman AU systems	26	1.37	0.08	5.8	1.4	1.2 - 1.6	26	2.66	0.14	5.3	2.7	2.3 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	1.56	0.09	5.8	1.5	1.3 - 1.8	16	2.83	0.17	6.0	2.8	2.4 - 3.2
Roche Integra												
Roche Integra	25	0.99	0.04	4.0	1.0	0.9 - 1.1	25	1.92	0.09	4.7	1.9	1.7 - 2.1
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	45	0.90	0.07	7.8	0.9	0.7 - 1.1	45	1.87	0.12	6.4	1.9	1.6 - 2.2
All Chemistry Instruments	48	0.91	0.07	7.8	0.9	0.7 - 1.1	48	1.87	0.12	6.2	1.9	1.6 - 2.1
Vital Diagnostics												
All Chemistry Instruments	10	1.49	0.15	10.2	1.5	1.1 - 1.8	10	2.83	0.25	9.0	2.8	2.3 - 3.4
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	17	0.99	0.40	40.5	1.2	0.1 - 1.8	17	2.15	0.27	12.4	2.1	1.6 - 2.7
All Chemistry Instruments	21	1.07	0.40	37.5	1.2	0.2 - 1.9	21	2.21	0.29	13.3	2.2	1.6 - 2.8

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	1.50	0.36	23.8	1.3	0.7 - 2.3
All Alfa Wassermann Reagents	34	1.97	0.09	4.8	2.0	1.7 - 2.2
All Roche Integra/c111/c501 Reagents	30	1.24	0.06	5.0	1.2	1.1 - 1.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	1.97	0.09	4.5	2.0	1.7 - 2.2
Beckman AU						
Beckman AU systems	26	1.75	0.11	6.1	1.8	1.5 - 2.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	1.87	0.12	6.4	1.9	1.6 - 2.2
Roche Integra						
Roche Integra	25	1.24	0.06	5.2	1.2	1.1 - 1.4
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	45	1.20	0.09	7.1	1.2	1.0 - 1.4
All Chemistry Instruments	48	1.20	0.08	7.0	1.2	1.0 - 1.4
Vital Diagnostics						
All Chemistry Instruments	10	1.88	0.17	9.0	1.9	1.5 - 2.3
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	17	1.14	0.15	12.8	1.1	0.8 - 1.5
All Chemistry Instruments	21	1.21	0.22	17.9	1.2	0.7 - 1.7

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	336	2.45	0.31	12.5	2.4	1.9 - 3.0	332	0.20	0.10	51.3	0.2	0.0 - 0.6
All Alfa Wassermann Reagents	59	2.87	0.13	4.4	2.9	2.2 - 3.5	54	0.30	0.00	0.0	0.3	0.0 - 0.7
All Horiba Pentra Reagents	22	2.50	0.13	5.4	2.5	2.0 - 3.0	22	0.16	0.05	30.1	0.2	0.0 - 0.6
All Roche T. bili Special Reagents	30	2.14	0.09	4.4	2.1	1.7 - 2.6	30	0.10	0.00	0.0	0.1	0.0 - 0.5
All Vital Diagnostics Reagents	20	2.29	0.13	5.9	2.3	1.8 - 2.8	21	0.15	0.07	46.0	0.1	0.0 - 0.6
Abaxis Piccolo												
Abaxis Piccolo - waived	20	2.02	0.17	8.4	2.0	1.6 - 2.5	20	0.34	0.07	20.0	0.3	0.0 - 0.8
Abaxis Piccolo	13	2.08	0.19	9.2	2.1	1.6 - 2.6	13	0.34	0.05	15.0	0.3	0.0 - 0.8
All Chemistry Instruments	33	2.04	0.18	8.7	2.0	1.6 - 2.5	33	0.34	0.06	17.9	0.3	0.0 - 0.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	53	2.87	0.13	4.6	2.9	2.2 - 3.5	48	0.30	0.00	0.0	0.3	0.0 - 0.7
Beckman AU												
Beckman AU systems	29	2.69	0.11	4.3	2.7	2.1 - 3.3	29	0.24	0.05	20.8	0.2	0.0 - 0.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	2.50	0.14	5.4	2.5	2.0 - 3.1	21	0.16	0.05	30.7	0.2	0.0 - 0.6
Roche Integra-T. bili Special												
Roche Integra	24	2.12	0.08	3.9	2.1	1.6 - 2.6	24	0.10	0.00	0.0	0.1	0.0 - 0.5
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	2.34	0.12	5.2	2.4	1.8 - 2.9	56	0.11	0.04	35.0	0.1	0.0 - 0.6
All Chemistry Instruments	58	2.34	0.12	5.1	2.4	1.8 - 2.9	57	0.11	0.04	34.7	0.1	0.0 - 0.6
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	2.26	0.12	5.3	2.3	1.8 - 2.8	16	0.13	0.05	36.5	0.1	0.0 - 0.6
All Chemistry Instruments	19	2.29	0.14	6.0	2.3	1.8 - 2.8	19	0.14	0.06	43.6	0.1	0.0 - 0.6
VITROS - TBIL												
VITROS 250,350,500,700,750,950	30	2.46	0.17	6.7	2.5	1.9 - 3.0	31	0.13	0.06	50.1	0.1	0.0 - 0.6
All Chemistry Instruments	35	2.47	0.16	6.6	2.5	1.9 - 3.0	36	0.13	0.06	48.3	0.1	0.0 - 0.6

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	318	2.70	0.34	12.7	2.7	2.1 - 3.3	321	4.71	0.51	10.8	4.7	3.7 - 5.7
All Alfa Wassermann Reagents	57	3.15	0.14	4.3	3.1	2.5 - 3.8	57	5.35	0.24	4.5	5.3	4.2 - 6.5
All Horiba Pentra Reagents	22	2.64	0.12	4.6	2.6	2.1 - 3.2	22	4.75	0.19	4.0	4.7	3.7 - 5.7
All Roche T. bili Special Reagents	31	2.28	0.15	6.4	2.2	1.8 - 2.8	31	4.19	0.23	5.5	4.2	3.3 - 5.1
All Vital Diagnostics Reagents	22	2.52	0.41	16.2	2.5	2.0 - 3.1	21	4.45	0.31	6.9	4.4	3.5 - 5.4
Abaxis Piccolo												
Abaxis Piccolo - waived	7	-	-	-	2.2	1.7 - 2.7	7	-	-	-	3.8	3.0 - 4.7
Abaxis Piccolo	11	2.15	0.28	13.2	2.2	1.7 - 2.6	11	3.89	0.25	6.5	3.9	3.1 - 4.7
All Chemistry Instruments	18	2.19	0.32	14.7	2.2	1.7 - 2.7	18	3.87	0.23	5.9	3.9	3.0 - 4.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	52	3.14	0.15	4.9	3.1	2.5 - 3.8	51	5.35	0.25	4.7	5.3	4.2 - 6.5
Beckman AU												
Beckman AU systems	29	2.78	0.13	4.5	2.8	2.2 - 3.4	29	5.03	0.21	4.3	5.1	4.0 - 6.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	2.64	0.12	4.7	2.6	2.1 - 3.2	21	4.75	0.19	4.0	4.7	3.8 - 5.8
Roche Integra-T. bili Special												
Roche Integra	25	2.24	0.13	5.6	2.2	1.7 - 2.7	25	4.14	0.21	5.0	4.1	3.3 - 5.0
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	2.61	0.14	5.2	2.6	2.0 - 3.2	57	4.52	0.24	5.3	4.5	3.6 - 5.5
All Chemistry Instruments	57	2.61	0.14	5.2	2.6	2.0 - 3.2	58	4.52	0.24	5.3	4.5	3.6 - 5.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	2.49	0.15	6.1	2.5	1.9 - 3.0	16	4.40	0.23	5.3	4.4	3.5 - 5.3
All Chemistry Instruments	19	2.57	0.23	8.8	2.5	2.0 - 3.1	19	4.46	0.25	5.7	4.4	3.5 - 5.4
VITROS - TBIL												
VITROS 250,350,500,700,750,950	31	2.79	0.20	7.0	2.8	2.2 - 3.4	31	4.87	0.30	6.2	4.9	3.8 - 5.9
All Chemistry Instruments	36	2.80	0.19	6.6	2.8	2.2 - 3.4	36	4.92	0.31	6.4	5.0	3.9 - 6.0

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	320	3.09	0.37	11.9	3.1	2.4 - 3.8
All Alfa Wassermann Reagents	58	3.59	0.17	4.8	3.6	2.8 - 4.4
All Horiba Pentra Reagents	22	3.11	0.14	4.4	3.1	2.4 - 3.8
All Roche T. bili Special Reagents	31	2.70	0.15	5.7	2.7	2.1 - 3.3
All Vital Diagnostics Reagents	22	2.89	0.26	8.9	2.9	2.3 - 3.5
Abaxis Piccolo						
Abaxis Piccolo - waived	7	-	-	-	2.5	2.0 - 3.0
Abaxis Piccolo	11	2.53	0.25	10.0	2.5	2.0 - 3.1
All Chemistry Instruments	18	2.50	0.22	8.8	2.5	2.0 - 3.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	53	3.58	0.20	5.5	3.6	2.8 - 4.3
Beckman AU						
Beckman AU systems	29	3.33	0.16	4.8	3.4	2.6 - 4.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	3.11	0.14	4.5	3.1	2.4 - 3.8
Roche Integra-T. bili Special						
Roche Integra	25	2.68	0.15	5.6	2.7	2.1 - 3.3
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	57	2.97	0.15	5.1	3.0	2.3 - 3.6
All Chemistry Instruments	58	2.97	0.15	5.1	3.0	2.3 - 3.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	2.86	0.18	6.4	2.9	2.2 - 3.5
All Chemistry Instruments	19	2.91	0.21	7.3	2.9	2.3 - 3.5
VITROS - TBIL						
VITROS 250,350,500,700,750,950	31	3.05	0.22	7.1	3.1	2.4 - 3.7
All Chemistry Instruments	36	3.08	0.22	7.3	3.1	2.4 - 3.7

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	340	12.19	0.36	3.0	12.2	11.1 - 13.2	341	9.78	0.28	2.9	9.8	8.7 - 10.8
All Arsenazo Methods	176	12.17	0.31	2.5	12.2	11.1 - 13.2	178	9.77	0.31	3.2	9.8	8.7 - 10.8
All CPC Methods	151	12.23	0.43	3.5	12.2	11.2 - 13.3	152	9.80	0.27	2.7	9.8	8.8 - 10.9
Abaxis Piccolo												
Abaxis Piccolo - waived	21	12.43	0.33	2.7	12.4	11.4 - 13.5	21	9.95	0.23	2.3	10.0	8.9 - 11.0
Abaxis Piccolo	13	12.39	0.20	1.6	12.3	11.3 - 13.4	13	9.99	0.19	1.9	10.0	8.9 - 11.0
All Chemistry Instruments	34	12.42	0.29	2.3	12.4	11.4 - 13.5	34	9.96	0.22	2.2	10.0	8.9 - 11.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	53	12.10	0.29	2.4	12.1	11.1 - 13.2	51	9.90	0.23	2.3	9.9	8.9 - 11.0
Beckman AU												
Beckman AU systems	28	11.99	0.39	3.2	12.1	10.9 - 13.0	28	9.73	0.25	2.6	9.7	8.7 - 10.8
All Chemistry Instruments	29	11.99	0.38	3.2	12.1	10.9 - 13.0	29	9.73	0.25	2.6	9.7	8.7 - 10.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	12.82	0.33	2.6	12.9	11.8 - 13.9	20	10.02	0.24	2.4	10.0	9.0 - 11.1
Roche Integra												
Roche Integra	31	12.46	0.36	2.9	12.5	11.4 - 13.5	31	9.93	0.23	2.3	9.9	8.9 - 11.0
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	12.01	0.27	2.2	12.0	11.0 - 13.1	59	9.69	0.21	2.2	9.7	8.6 - 10.7
All Chemistry Instruments	61	12.01	0.27	2.2	12.0	11.0 - 13.1	61	9.69	0.22	2.3	9.7	8.6 - 10.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	11.96	0.27	2.3	12.0	10.9 - 13.0	17	9.45	0.28	3.0	9.5	8.4 - 10.5
All Chemistry Instruments	19	11.96	0.27	2.3	12.0	10.9 - 13.0	19	9.54	0.38	4.0	9.5	8.5 - 10.6
VITROS												
VITROS 250,350,500,700,750,950	30	12.21	0.19	1.5	12.2	11.2 - 13.3	31	9.55	0.16	1.7	9.6	8.5 - 10.6
All Chemistry Instruments	39	12.23	0.18	1.5	12.2	11.2 - 13.3	40	9.58	0.16	1.7	9.6	8.5 - 10.6

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	327	7.60	0.33	4.4	7.6	6.5 - 8.6	321	14.54	0.48	3.3	14.5	13.5 - 15.6
All Arsenazo Methods	165	7.63	0.40	5.3	7.7	6.6 - 8.7	160	14.44	0.41	2.8	14.4	13.4 - 15.5
All CPC Methods	151	7.60	0.28	3.7	7.6	6.5 - 8.6	150	14.72	0.57	3.9	14.6	13.7 - 15.8
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	7.7	6.7 - 8.8	8	-	-	-	14.4	13.4 - 15.5
Abaxis Piccolo	11	7.73	0.17	2.2	7.8	6.7 - 8.8	11	14.46	0.33	2.3	14.5	13.4 - 15.5
All Chemistry Instruments	19	7.73	0.19	2.4	7.7	6.7 - 8.8	19	14.41	0.31	2.2	14.5	13.4 - 15.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	51	7.79	0.17	2.2	7.8	6.7 - 8.8	53	14.36	0.32	2.2	14.4	13.3 - 15.4
Beckman AU												
Beckman AU systems	28	7.90	0.18	2.3	7.9	6.8 - 8.9	26	14.28	0.33	2.3	14.3	13.2 - 15.3
All Chemistry Instruments	29	7.91	0.19	2.4	7.9	6.9 - 9.0	27	14.29	0.33	2.3	14.3	13.2 - 15.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	7.53	0.21	2.8	7.5	6.5 - 8.6	20	15.59	0.48	3.1	15.7	14.5 - 16.6
Roche Integra												
Roche Integra	31	7.69	0.20	2.7	7.7	6.6 - 8.7	31	14.98	0.38	2.5	15.0	13.9 - 16.0
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	7.40	0.19	2.6	7.4	6.4 - 8.5	58	14.43	0.29	2.0	14.4	13.4 - 15.5
All Chemistry Instruments	60	7.41	0.19	2.6	7.4	6.4 - 8.5	60	14.44	0.28	2.0	14.5	13.4 - 15.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	7.64	0.24	3.2	7.6	6.6 - 8.7	17	14.45	0.41	2.8	14.5	13.4 - 15.5
All Chemistry Instruments	19	7.59	0.27	3.6	7.6	6.5 - 8.6	18	14.41	0.42	2.9	14.5	13.4 - 15.5
VITROS												
VITROS 250,350,500,700,750,950	31	7.11	0.17	2.4	7.1	6.1 - 8.2	30	14.50	0.37	2.5	14.4	13.4 - 15.5
All Chemistry Instruments	40	7.13	0.18	2.6	7.1	6.1 - 8.2	39	14.55	0.46	3.2	14.4	13.5 - 15.6

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	326	11.69	0.34	2.9	11.7	10.6 - 12.7
All Arsenazo Methods	161	11.71	0.26	2.2	11.7	10.7 - 12.8
All CPC Methods	151	11.66	0.39	3.3	11.6	10.6 - 12.7
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	11.9	10.8 - 12.9
Abaxis Piccolo	11	11.85	0.18	1.5	11.9	10.8 - 12.9
All Chemistry Instruments	19	11.84	0.17	1.4	11.9	10.8 - 12.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	53	11.73	0.26	2.2	11.8	10.7 - 12.8
Beckman AU						
Beckman AU systems	28	11.58	0.36	3.1	11.6	10.5 - 12.6
All Chemistry Instruments	29	11.58	0.36	3.1	11.6	10.5 - 12.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	12.15	0.32	2.7	12.2	11.1 - 13.2
Roche Integra						
Roche Integra	31	11.86	0.29	2.4	11.9	10.8 - 12.9
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	11.42	0.24	2.1	11.5	10.4 - 12.5
All Chemistry Instruments	60	11.41	0.24	2.1	11.5	10.4 - 12.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	17	11.56	0.29	2.5	11.6	10.5 - 12.6
All Chemistry Instruments	19	11.57	0.28	2.4	11.6	10.5 - 12.6
VITROS						
VITROS 250,350,500,700,750,950	31	11.66	0.21	1.8	11.7	10.6 - 12.7
All Chemistry Instruments	39	11.70	0.17	1.5	11.7	10.7 - 12.7

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-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	346	2.86	0.16	5.7	2.9	2.4 - 3.3	341	0.48	0.09	17.7	0.5	0.1 - 0.8
IDMS Standardization	184	2.86	0.17	5.8	2.9	2.4 - 3.3	182	0.46	0.09	19.3	0.4	0.1 - 0.8
Abaxis Piccolo												
Abaxis Piccolo - waived	16	2.96	0.15	4.9	3.0	2.5 - 3.5	16	0.54	0.14	25.1	0.6	0.2 - 0.9
All Chemistry Instruments	21	2.96	0.15	5.1	2.9	2.5 - 3.5	22	0.59	0.16	27.0	0.6	0.2 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	2.76	0.18	6.5	2.8	2.3 - 3.2	31	0.50	0.08	16.0	0.5	0.1 - 0.8
Beckman AU												
Beckman AU systems	20	2.86	0.06	2.1	2.9	2.4 - 3.3	20	0.43	0.05	10.9	0.4	0.1 - 0.8
CREA (blnk corrected -NH3)												
VITROS 250,350,500,700,750,950	10	2.98	0.04	1.4	3.0	2.5 - 3.5	10	0.45	0.05	11.7	0.5	0.1 - 0.8
All Chemistry Instruments	11	2.97	0.05	1.6	3.0	2.5 - 3.5	11	0.45	0.05	11.5	0.5	0.1 - 0.8
CRSC (single slide)												
VITROS 250,350,500,700,750,950	17	3.02	0.09	3.0	3.0	2.5 - 3.5	17	0.42	0.05	12.7	0.4	0.1 - 0.8
All Chemistry Instruments	24	2.99	0.12	4.1	3.0	2.5 - 3.5	24	0.42	0.05	11.6	0.4	0.1 - 0.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	2.85	0.13	4.5	2.9	2.4 - 3.3	14	0.56	0.06	11.2	0.6	0.2 - 0.9
Roche Integra												
Roche Integra	19	2.66	0.15	5.7	2.7	2.2 - 3.1	17	0.40	0.00	0.0	0.4	0.1 - 0.7
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	2.95	0.14	4.6	2.9	2.5 - 3.4	11	0.44	0.16	37.3	0.4	0.1 - 0.8
All Chemistry Instruments	12	2.94	0.13	4.5	2.9	2.5 - 3.4	12	0.43	0.16	35.9	0.4	0.1 - 0.8
Non-IDMS Method	114	2.88	0.16	5.6	2.9	2.4 - 3.4	112	0.51	0.07	14.6	0.5	0.2 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.73	0.11	3.9	2.7	2.3 - 3.2	15	0.52	0.07	13.0	0.5	0.2 - 0.9
Roche Integra												
Roche Integra	11	2.81	0.20	7.0	2.7	2.3 - 3.3	11	0.45	0.05	11.7	0.4	0.1 - 0.8
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	40	3.00	0.07	2.5	3.0	2.5 - 3.5	39	0.51	0.07	13.1	0.5	0.2 - 0.9
All Chemistry Instruments	42	3.00	0.08	2.5	3.0	2.5 - 3.5	41	0.50	0.07	13.3	0.5	0.2 - 0.9

Creatinine (mg/dL)

<u>Standardization/Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	333	1.26	0.19	14.9	1.3	0.9 - 1.6	330	5.19	0.36	7.0	5.2	4.4 - 6.0
IDMS Standardization	173	1.20	0.20	17.0	1.2	0.9 - 1.6	173	5.21	0.38	7.4	5.2	4.4 - 6.0
Abaxis Piccolo												
All Chemistry Instruments	10	1.41	0.17	11.8	1.4	1.1 - 1.8	10	5.33	0.13	2.5	5.4	4.5 - 6.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	1.23	0.10	7.9	1.2	0.9 - 1.6	31	4.91	0.25	5.0	4.9	4.1 - 5.7
Beckman AU												
Beckman AU systems	20	1.36	0.05	3.8	1.4	1.0 - 1.7	20	5.23	0.11	2.1	5.2	4.4 - 6.1
CREA (blnk corrected -NH3)												
VITROS 250,350,500,700,750,950	10	0.90	0.00	0.0	0.9	0.6 - 1.2	10	5.75	0.14	2.5	5.8	4.8 - 6.7
All Chemistry Instruments	11	0.90	0.00	0.0	0.9	0.6 - 1.2	11	5.74	0.14	2.5	5.7	4.8 - 6.6
CRSC (single slide)												
VITROS 250,350,500,700,750,950	17	0.91	0.03	3.6	0.9	0.6 - 1.3	17	5.77	0.14	2.4	5.8	4.9 - 6.7
All Chemistry Instruments	24	0.90	0.05	5.2	0.9	0.5 - 1.2	23	5.75	0.13	2.3	5.8	4.8 - 6.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	1.40	0.06	4.0	1.4	1.1 - 1.7	14	5.05	0.18	3.5	5.1	4.2 - 5.9
Roche Integra												
Roche Integra	18	1.13	0.08	7.3	1.1	0.8 - 1.5	19	4.78	0.25	5.2	4.8	4.0 - 5.6
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	1.29	0.09	7.3	1.3	0.9 - 1.6	11	5.35	0.19	3.5	5.3	4.5 - 6.2
All Chemistry Instruments	12	1.28	0.11	8.3	1.3	0.9 - 1.6	12	5.35	0.18	3.3	5.3	4.5 - 6.2
Non-IDMS Method	112	1.34	0.12	9.1	1.3	1.0 - 1.7	114	5.17	0.35	6.8	5.3	4.3 - 6.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	1.24	0.06	5.1	1.3	0.9 - 1.6	16	4.77	0.22	4.7	4.7	4.0 - 5.5
Roche Integra												
Roche Integra	11	1.25	0.14	11.6	1.2	0.9 - 1.6	11	5.03	0.43	8.5	5.0	4.2 - 5.8
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	40	1.36	0.07	5.5	1.4	1.0 - 1.7	40	5.42	0.12	2.2	5.4	4.6 - 6.3
All Chemistry Instruments	42	1.36	0.07	5.4	1.4	1.0 - 1.7	42	5.42	0.12	2.2	5.4	4.6 - 6.3

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

<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	332	3.03	0.18	6.0	3.0	2.5 - 3.5
IDMS Standardization	174	3.01	0.18	6.0	3.0	2.5 - 3.5
Abaxis Piccolo						
All Chemistry Instruments	10	3.19	0.18	5.6	3.2	2.7 - 3.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	2.90	0.16	5.5	2.9	2.4 - 3.4
Beckman AU						
Beckman AU systems	20	3.06	0.08	2.5	3.1	2.6 - 3.6
CREA (blnk corrected -NH3)						
VITROS 250,350,500,700,750,950	10	3.08	0.08	2.6	3.1	2.6 - 3.6
All Chemistry Instruments	11	3.06	0.09	3.0	3.1	2.6 - 3.6
CRSC (single slide)						
VITROS 250,350,500,700,750,950	17	3.11	0.09	3.0	3.1	2.6 - 3.6
All Chemistry Instruments	24	3.08	0.13	4.1	3.1	2.6 - 3.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	3.03	0.11	3.8	3.0	2.5 - 3.5
Roche Integra						
Roche Integra	19	2.78	0.12	4.4	2.8	2.3 - 3.3
Siemens Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	3.11	0.11	3.7	3.1	2.6 - 3.6
All Chemistry Instruments	12	3.10	0.11	3.6	3.1	2.6 - 3.6
Non-IDMS Method	113	3.07	0.17	5.7	3.1	2.6 - 3.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	2.89	0.13	4.5	2.9	2.4 - 3.4
Roche Integra						
Roche Integra	11	2.96	0.29	9.8	2.9	2.5 - 3.5
Siemens Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	40	3.18	0.09	2.9	3.2	2.6 - 3.7
All Chemistry Instruments	42	3.18	0.09	2.9	3.2	2.6 - 3.7

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	363	168.2	5.7	3.4	169	151 - 185	359	96.2	3.8	4.0	97	86 - 106
All Alfa Wassermann Reagents	62	169.6	3.5	2.1	170	152 - 187	60	98.2	1.9	2.0	98	88 - 109
All Horiba Pentra Reagents	22	174.1	6.3	3.6	174	156 - 192	22	98.5	4.0	4.0	98	88 - 109
All Roche Integra/c111/c501 Reagents	39	169.2	3.9	2.3	170	152 - 187	39	95.8	2.4	2.5	96	86 - 106
All Vital Diagnostics Reagents	23	170.4	5.1	3.0	170	153 - 188	23	98.2	3.6	3.6	98	88 - 109
Abaxis Piccolo												
Abaxis Piccolo - waived	22	169.6	2.3	1.3	170	152 - 187	22	99.0	1.7	1.7	99	89 - 109
Abaxis Piccolo	12	168.8	2.3	1.3	169	151 - 186	12	98.3	1.7	1.7	99	88 - 109
All Chemistry Instruments	34	169.3	2.3	1.3	170	152 - 187	34	98.7	1.7	1.7	99	88 - 109
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	55	169.7	3.7	2.2	170	152 - 187	53	98.2	2.0	2.0	98	88 - 109
Beckman AU												
Beckman AU systems	30	169.1	5.4	3.2	169	152 - 186	30	96.1	3.3	3.4	97	86 - 106
Cholestech LDX												
Cholestech LDX - waived	11	155.0	29.0	18.7	152	139 - 171	9	-	-	-	85	78 - 96
All Chemistry Instruments	12	155.8	27.8	17.8	155	140 - 172	10	86.9	4.3	5.0	86	78 - 96
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	174.3	6.4	3.6	175	156 - 192	21	98.6	4.1	4.1	98	88 - 109
Roche Integra												
Roche Integra	32	168.9	4.0	2.3	170	152 - 186	32	95.6	2.4	2.5	96	86 - 106
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	56	169.2	3.3	2.0	169	152 - 187	56	96.3	2.2	2.3	96	86 - 106
All Chemistry Instruments	58	169.2	3.2	1.9	169	152 - 187	58	96.3	2.1	2.2	96	86 - 106
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	170.8	4.3	2.5	171	153 - 188	17	98.6	3.4	3.4	99	88 - 109
All Chemistry Instruments	20	171.1	4.7	2.8	171	153 - 189	20	98.7	3.3	3.3	99	88 - 109
VITROS												
VITROS 250,350,500,700,750,950	33	160.2	4.3	2.7	160	144 - 177	33	90.4	2.7	3.0	90	81 - 100
All Chemistry Instruments	43	160.4	4.1	2.5	160	144 - 177	42	90.2	2.5	2.8	90	81 - 100

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	343	46.5	3.5	7.6	47	40 - 53	335	240.8	7.1	2.9	241	216 - 265
All Alfa Wassermann Reagents	62	48.5	1.6	3.3	48	42 - 55	60	241.7	4.8	2.0	242	217 - 266
All Horiba Pentra Reagents	22	46.2	4.2	9.2	46	40 - 53	22	248.3	11.5	4.6	248	223 - 274
All Roche Integra/c111/c501 Reagents	39	43.3	1.5	3.6	43	37 - 50	39	241.3	5.6	2.3	241	217 - 266
All Vital Diagnostics Reagents	23	47.9	4.3	8.9	48	41 - 54	22	243.7	7.4	3.0	245	219 - 269
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	50	42 - 55	9	-	-	-	240	215 - 263
Abaxis Piccolo	10	48.1	1.2	2.5	48	42 - 55	10	237.7	2.6	1.1	238	213 - 262
All Chemistry Instruments	19	48.8	1.4	2.9	49	42 - 55	19	239.0	2.7	1.1	240	215 - 263
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	55	48.4	1.7	3.5	48	42 - 55	53	241.8	4.9	2.0	242	217 - 266
Beckman AU												
Beckman AU systems	30	43.0	1.4	3.4	43	37 - 50	29	240.0	6.9	2.9	242	216 - 265
Cholestech LDX												
Cholestech LDX - waived	3	-	-	-	50	40 - 53	3	-	-	-	202	216 - 265
All Chemistry Instruments	4	-	-	-	50	44 - 56	4	-	-	-	215	192 - 236
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	46.3	4.3	9.3	46	40 - 53	21	248.5	11.8	4.7	250	223 - 274
Roche Integra												
Roche Integra	32	43.1	1.6	3.7	43	37 - 50	32	240.6	5.4	2.2	241	216 - 265
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	49.8	1.8	3.5	50	43 - 56	57	242.7	5.6	2.3	243	218 - 268
All Chemistry Instruments	60	49.9	1.7	3.5	50	43 - 56	59	242.8	5.6	2.3	243	218 - 268
Vital Diagnostics												
Vital Diagnostics Envoy 500	17	48.9	2.6	5.3	48	42 - 55	17	243.9	7.2	3.0	244	219 - 269
All Chemistry Instruments	20	49.2	2.6	5.2	49	43 - 56	20	243.7	7.7	3.2	245	219 - 269
VITROS												
VITROS 250,350,500,700,750,950	32	43.4	2.3	5.3	43	37 - 50	33	233.1	5.9	2.5	232	209 - 257
All Chemistry Instruments	42	43.6	2.5	5.6	43	37 - 50	43	234.0	6.3	2.7	234	210 - 258

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	335	156.8	4.8	3.1	157	141 - 173
All Alfa Wassermann Reagents	61	158.2	3.5	2.2	158	142 - 174
All Horiba Pentra Reagents	22	160.4	7.6	4.8	159	144 - 177
All Roche Integra/c111/c501 Reagents	39	155.8	3.8	2.5	156	140 - 172
All Vital Diagnostics Reagents	23	159.9	5.7	3.6	160	143 - 176
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	157	141 - 173
Abaxis Piccolo	10	156.1	2.8	1.8	157	140 - 172
All Chemistry Instruments	19	156.7	2.3	1.5	157	141 - 173
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	54	158.1	3.6	2.3	158	142 - 174
Beckman AU						
Beckman AU systems	30	156.1	5.0	3.2	157	140 - 172
Cholestech LDX						
Cholestech LDX - waived	3	-	-	-	139	141 - 173
All Chemistry Instruments	4	-	-	-	145	130 - 159
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	160.5	7.8	4.9	159	144 - 177
Roche Integra						
Roche Integra	32	155.3	3.8	2.5	155	139 - 171
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	55	157.8	3.3	2.1	158	142 - 174
All Chemistry Instruments	57	157.9	3.2	2.0	158	142 - 174
Vital Diagnostics						
Vital Diagnostics Envoy 500	17	159.7	5.5	3.4	160	143 - 176
All Chemistry Instruments	20	159.7	6.0	3.8	160	143 - 176
VITROS						
VITROS 250,350,500,700,750,950	33	152.1	4.1	2.7	151	136 - 168
All Chemistry Instruments	43	152.3	4.0	2.6	152	137 - 168

Iron (mcg/dL)

Specimen CH-1							Specimen CH-2					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	123	110.8	6.6	6.0	109	88 - 133	122	57.7	4.3	7.4	58	46 - 70
All Alfa Wassermann Reagents	10	107.7	3.7	3.4	108	86 - 130	10	57.7	2.6	4.5	59	46 - 70
All Roche Integra/c111/c501 Reagents	16	111.6	3.1	2.8	112	89 - 134	16	60.3	3.9	6.5	60	48 - 73
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	107.7	3.7	3.4	108	86 - 130	10	57.7	2.6	4.5	59	46 - 70
Beckman AU												
Beckman AU systems	18	120.9	3.6	3.0	122	96 - 146	18	61.7	2.9	4.7	63	49 - 75
Roche Integra												
Roche Integra	13	111.2	3.3	2.9	111	88 - 134	13	59.7	3.5	5.8	60	47 - 72
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	107.8	1.6	1.4	108	86 - 130	30	57.6	1.3	2.3	58	46 - 70
All Chemistry Instruments	31	107.9	1.6	1.5	108	86 - 130	31	57.7	1.4	2.5	58	46 - 70
VITROS												
All Chemistry Instruments	13	116.2	5.9	5.1	116	92 - 140	13	54.2	6.5	12.0	52	43 - 65
Specimen CH-3							Specimen CH-4					
All Method	123	234.2	19.7	8.4	228	187 - 282	122	165.0	10.7	6.5	163	132 - 198
All Alfa Wassermann Reagents	10	220.3	6.0	2.7	220	176 - 265	10	158.1	3.9	2.4	158	126 - 190
All Roche Integra/c111/c501 Reagents	16	232.3	5.2	2.2	232	185 - 279	16	166.6	3.4	2.0	166	133 - 200
Alfa Wassermann												
Alfa Wassermann ACE/NexCT/Alera	10	220.3	6.0	2.7	220	176 - 265	10	158.1	3.9	2.4	158	126 - 190
Beckman AU												
Beckman AU systems	18	257.1	6.0	2.3	256	205 - 309	18	180.6	4.5	2.5	179	144 - 217
Roche Integra												
Roche Integra	13	231.4	4.9	2.1	231	185 - 278	13	166.6	3.7	2.2	166	133 - 200
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	30	226.1	3.6	1.6	225	180 - 272	29	158.6	2.5	1.6	159	126 - 191
All Chemistry Instruments	31	226.2	3.7	1.6	225	180 - 272	30	158.7	2.5	1.6	159	126 - 191
VITROS												
All Chemistry Instruments	13	272.2	8.2	3.0	270	217 - 327	13	178.2	8.1	4.5	180	142 - 214

Iron (mcg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	123	155.6	10.7	6.9	153	124 - 187
All Alfa Wassermann Reagents	10	148.7	4.0	2.7	149	118 - 179
All Roche Integra/c111/c501 Reagents	15	156.5	3.7	2.4	156	125 - 188
Alfa Wassermann						
Alfa Wassermann ACE/NexCT/Alera	10	148.7	4.0	2.7	149	118 - 179
Beckman AU						
Beckman AU systems	18	170.2	4.8	2.8	169	136 - 205
Roche Integra						
Roche Integra	13	158.5	8.6	5.4	156	126 - 191
Siemens (Dade) Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	30	150.7	2.4	1.6	150	120 - 181
All Chemistry Instruments	31	150.8	2.4	1.6	150	120 - 181
VITROS						
All Chemistry Instruments	13	167.7	8.3	4.9	168	134 - 202

Lactic Acid (mmol/L)**Specimen CH-1****Specimen CH-2**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.42	0.13	5.4	2.4	2.0 - 2.9	5	1.36	0.22	16.1	1.4	0.7 - 2.1

Specimen CH-3**Specimen CH-4**

All Method	5	6.14	0.42	6.8	6.0	4.8 - 7.4	5	3.54	0.25	7.1	3.5	2.7 - 4.3
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Specimen CH-5

All Method	5	3.70	0.19	5.1	3.8	3.1 - 4.3
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Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	154	3.15	0.22	6.9	3.1	2.3 - 4.0	154	4.64	0.35	7.4	4.6	3.4 - 5.9
All Alfa Wassermann Reagents	13	2.95	0.19	6.4	2.9	2.2 - 3.7	13	4.42	0.27	6.1	4.4	3.3 - 5.6
All Horiba Pentra Reagents	17	3.11	0.20	6.5	3.1	2.3 - 3.9	17	4.40	0.29	6.7	4.4	3.3 - 5.5
All Roche Integra/c111/c501 Reagents	21	3.09	0.11	3.7	3.1	2.3 - 3.9	21	4.55	0.14	3.1	4.6	3.4 - 5.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	2.97	0.19	6.5	3.0	2.2 - 3.8	12	4.43	0.28	6.3	4.5	3.3 - 5.6
Beckman AU												
Beckman AU systems	14	3.11	0.17	5.3	3.2	2.3 - 3.9	14	4.64	0.19	4.1	4.7	3.4 - 5.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	3.11	0.21	6.6	3.1	2.3 - 3.9	16	4.41	0.30	6.9	4.5	3.3 - 5.6
Roche Integra												
Roche Integra	16	3.08	0.13	4.1	3.1	2.3 - 3.9	16	4.54	0.13	2.9	4.5	3.4 - 5.7
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	3.19	0.14	4.5	3.2	2.3 - 4.0	28	4.86	0.14	2.9	4.8	3.6 - 6.1
VITROS												
VITROS 250,350,500,700,750,950	14	3.47	0.08	2.4	3.5	2.6 - 4.4	14	5.25	0.12	2.2	5.3	3.9 - 6.6
All Chemistry Instruments	21	3.46	0.10	2.8	3.5	2.5 - 4.4	21	5.19	0.16	3.1	5.2	3.8 - 6.5

Magnesium (mg/dL)

Specimen CH-3							Specimen CH-4					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	3.24	0.20	6.0	3.2	2.4 - 4.1	152	1.63	0.13	8.0	1.6	1.2 - 2.1
All Alfa Wassermann Reagents	13	3.04	0.16	5.3	3.0	2.2 - 3.8	13	1.52	0.13	8.5	1.5	1.1 - 1.9
All Horiba Pentra Reagents	17	3.15	0.22	6.8	3.2	2.3 - 4.0	17	1.71	0.24	14.0	1.7	1.2 - 2.2
All Roche Integra/c111/c501 Reagents	21	3.11	0.11	3.4	3.1	2.3 - 3.9	21	1.63	0.08	5.2	1.6	1.2 - 2.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	3.04	0.17	5.5	3.0	2.2 - 3.9	12	1.52	0.13	8.8	1.5	1.1 - 1.9
Beckman AU												
Beckman AU systems	14	3.21	0.13	4.1	3.2	2.4 - 4.1	14	1.58	0.10	6.2	1.6	1.1 - 2.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	3.16	0.22	7.0	3.2	2.3 - 4.0	16	1.71	0.24	14.3	1.7	1.2 - 2.2
Roche Integra												
Roche Integra	16	3.10	0.11	3.5	3.1	2.3 - 3.9	16	1.63	0.09	5.8	1.6	1.2 - 2.1
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	3.34	0.15	4.4	3.3	2.5 - 4.2	29	1.61	0.10	5.9	1.6	1.2 - 2.1
VITROS												
VITROS 250,350,500,700,750,950	14	3.48	0.12	3.4	3.5	2.6 - 4.4	14	1.71	0.13	7.4	1.7	1.2 - 2.2
All Chemistry Instruments	21	3.47	0.13	3.7	3.5	2.6 - 4.4	21	1.71	0.12	6.9	1.7	1.2 - 2.2
Specimen CH-5												
All Method	153	2.81	0.18	6.3	2.8	2.1 - 3.6						
All Alfa Wassermann Reagents	13	2.67	0.15	5.8	2.7	2.0 - 3.4						
All Horiba Pentra Reagents	17	2.75	0.20	7.4	2.8	2.0 - 3.5						
All Roche Integra/c111/c501 Reagents	21	2.75	0.12	4.2	2.8	2.0 - 3.5						
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	2.68	0.16	6.0	2.7	2.0 - 3.4						
Beckman AU												
Beckman AU systems	14	2.78	0.11	3.8	2.8	2.0 - 3.5						
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	2.74	0.21	7.6	2.8	2.0 - 3.5						
Roche Integra												
Roche Integra	16	2.73	0.13	4.6	2.7	2.0 - 3.5						
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	29	2.89	0.14	4.7	2.9	2.1 - 3.7						
VITROS												
VITROS 250,350,500,700,750,950	14	3.04	0.13	4.2	3.1	2.2 - 3.9						
All Chemistry Instruments	21	3.03	0.13	4.4	3.0	2.2 - 3.8						

Phosphorus (mg/dL)

Specimen CH-1							Specimen CH-2					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	130	3.65	0.20	5.5	3.6	3.2 - 4.1	133	5.31	0.26	4.9	5.3	4.7 - 5.9
All Alfa Wassermann Reagents	20	3.67	0.18	4.8	3.7	3.2 - 4.1	20	5.51	0.30	5.4	5.6	4.9 - 6.1
All Roche Integra/c111/c501 Reagents	19	3.62	0.12	3.4	3.7	3.2 - 4.1	19	5.31	0.14	2.7	5.3	4.7 - 5.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	3.68	0.16	4.4	3.7	3.2 - 4.1	18	5.53	0.29	5.2	5.6	4.9 - 6.2
Beckman AU												
Beckman AU systems	12	3.44	0.11	3.1	3.5	3.0 - 3.9	12	5.08	0.14	2.8	5.1	4.5 - 5.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	3.99	0.22	5.4	4.0	3.5 - 4.5	12	5.48	0.16	3.0	5.5	4.8 - 6.1
Roche Integra												
Roche Integra	14	3.60	0.14	3.8	3.7	3.2 - 4.0	14	5.31	0.16	3.1	5.4	4.7 - 5.9
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	3.58	0.09	2.5	3.6	3.1 - 4.0	24	5.24	0.12	2.2	5.2	4.6 - 5.8
VITROS												
All Chemistry Instruments	13	3.76	0.12	3.2	3.8	3.3 - 4.2	13	5.11	0.13	2.6	5.1	4.5 - 5.7

Specimen CH-3							Specimen CH-4					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	4.08	0.26	6.3	4.0	3.6 - 4.6	132	1.94	0.25	13.0	1.9	1.6 - 2.3
All Alfa Wassermann Reagents	20	3.92	0.15	3.8	4.0	3.5 - 4.4	20	1.72	0.13	7.9	1.7	1.4 - 2.1
All Roche Integra/c111/c501 Reagents	19	4.01	0.13	3.3	4.0	3.5 - 4.5	19	1.91	0.08	4.5	1.9	1.6 - 2.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	3.94	0.15	3.7	4.0	3.5 - 4.4	18	1.73	0.14	7.9	1.8	1.4 - 2.1
Beckman AU												
Beckman AU systems	12	3.81	0.12	3.3	3.9	3.4 - 4.3	12	1.78	0.06	3.2	1.8	1.4 - 2.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	4.58	0.13	2.8	4.6	4.0 - 5.1	12	2.42	0.15	6.1	2.4	2.1 - 2.8
Roche Integra												
Roche Integra	14	3.98	0.14	3.4	4.0	3.5 - 4.5	14	1.91	0.09	4.8	1.9	1.6 - 2.3
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	24	4.03	0.14	3.4	4.1	3.5 - 4.5	24	1.84	0.07	3.9	1.8	1.5 - 2.2
VITROS												
All Chemistry Instruments	13	4.26	0.12	2.8	4.3	3.8 - 4.8	13	2.30	0.12	5.3	2.3	2.0 - 2.6

Phosphorus (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	132	3.33	0.23	6.8	3.3	2.9 - 3.7
All Alfa Wassermann Reagents	20	3.21	0.20	6.2	3.2	2.8 - 3.6
All Roche Integra/c111/c501 Reagents	19	3.31	0.12	3.6	3.3	2.9 - 3.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	3.22	0.20	6.3	3.2	2.8 - 3.6
Beckman AU						
Beckman AU systems	12	3.13	0.12	3.7	3.1	2.7 - 3.5
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	3.72	0.11	3.0	3.7	3.3 - 4.2
Roche Integra						
Roche Integra	14	3.31	0.14	4.1	3.3	2.9 - 3.7
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	24	3.23	0.10	3.0	3.2	2.8 - 3.6
VITROS						
All Chemistry Instruments	13	3.54	0.11	3.2	3.5	3.1 - 4.0

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	334	4.25	0.15	3.6	4.3	3.8 - 4.7	331	2.95	0.13	4.4	2.9	2.6 - 3.3
All Alfa Wassermann Reagents	59	4.27	0.12	2.7	4.3	3.8 - 4.7	57	2.95	0.09	3.0	2.9	2.6 - 3.3
All Horiba Pentra Reagents	20	4.21	0.13	3.0	4.2	3.7 - 4.7	21	2.93	0.11	3.8	2.9	2.6 - 3.3
All Roche Integra/c111/c501 Reagents	36	4.15	0.12	2.8	4.1	3.7 - 4.6	36	2.85	0.10	3.5	2.8	2.5 - 3.2
All Vital Diagnostics Reagents	21	4.29	0.17	3.9	4.3	3.8 - 4.8	21	2.97	0.16	5.5	2.9	2.6 - 3.3
Abaxis Piccolo												
Abaxis Piccolo - waived	22	4.44	0.07	1.6	4.4	3.9 - 4.9	22	3.17	0.08	2.6	3.2	2.8 - 3.5
Abaxis Piccolo	11	4.48	0.10	2.2	4.5	4.0 - 5.0	11	3.15	0.09	3.0	3.1	2.8 - 3.5
All Chemistry Instruments	33	4.45	0.08	1.9	4.4	4.0 - 4.9	33	3.17	0.09	2.7	3.2	2.8 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	53	4.28	0.12	2.7	4.3	3.8 - 4.8	51	2.95	0.09	3.1	3.0	2.6 - 3.3
Beckman AU												
Beckman AU systems	28	4.12	0.08	1.9	4.1	3.7 - 4.6	29	2.88	0.10	3.6	2.9	2.5 - 3.2
Carolina Liquid Chemistries												
All Chemistry Instruments	10	4.16	0.21	5.1	4.3	3.7 - 4.6	10	2.86	0.11	3.8	2.9	2.5 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	4.21	0.13	3.1	4.2	3.7 - 4.7	20	2.93	0.11	3.9	2.9	2.6 - 3.3
Roche Integra												
Roche Integra	30	4.13	0.11	2.6	4.1	3.7 - 4.6	30	2.82	0.08	2.9	2.8	2.5 - 3.2
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	4.33	0.11	2.6	4.3	3.8 - 4.8	58	2.99	0.09	3.0	3.0	2.6 - 3.3
All Chemistry Instruments	60	4.33	0.11	2.6	4.3	3.8 - 4.8	59	2.99	0.09	2.9	3.0	2.6 - 3.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	4.25	0.14	3.2	4.3	3.8 - 4.7	16	2.91	0.08	2.8	2.9	2.6 - 3.3
All Chemistry Instruments	18	4.24	0.13	3.2	4.3	3.8 - 4.7	18	2.92	0.09	3.2	2.9	2.6 - 3.3
VITROS												
VITROS 250,350,500,700,750,950	33	4.21	0.13	3.0	4.2	3.7 - 4.7	32	2.90	0.08	2.8	2.9	2.6 - 3.2
All Chemistry Instruments	38	4.20	0.14	3.4	4.2	3.7 - 4.7	36	2.91	0.08	2.7	2.9	2.6 - 3.2

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	318	8.79	0.39	4.4	8.8	7.9 - 9.7	318	5.57	0.19	3.3	5.6	5.0 - 6.2
All Alfa Wassermann Reagents	59	8.86	0.19	2.2	8.9	7.9 - 9.8	57	5.62	0.13	2.3	5.6	5.0 - 6.2
All Horiba Pentra Reagents	21	8.68	0.31	3.6	8.6	7.8 - 9.6	21	5.47	0.19	3.5	5.4	4.9 - 6.1
All Roche Integra/c111/c501 Reagents	35	8.57	0.24	2.8	8.6	7.7 - 9.5	36	5.42	0.14	2.5	5.4	4.8 - 6.0
All Vital Diagnostics Reagents	21	8.87	0.25	2.8	8.9	7.9 - 9.8	21	5.56	0.13	2.3	5.6	5.0 - 6.2
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	9.2	8.2 - 10.2	9	-	-	-	5.7	5.1 - 6.3
Abaxis Piccolo	9	-	-	-	9.2	8.2 - 10.2	9	-	-	-	5.7	5.1 - 6.3
All Chemistry Instruments	18	9.21	0.16	1.7	9.2	8.2 - 10.2	18	5.72	0.12	2.2	5.7	5.1 - 6.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	53	8.87	0.20	2.2	8.9	7.9 - 9.8	51	5.62	0.13	2.4	5.6	5.0 - 6.2
Beckman AU												
Beckman AU systems	28	8.66	0.14	1.6	8.6	7.7 - 9.6	28	5.41	0.09	1.7	5.4	4.8 - 6.0
Carolina Liquid Chemistries												
All Chemistry Instruments	10	8.73	0.36	4.1	8.8	7.8 - 9.7	10	5.60	0.54	9.6	5.6	5.0 - 6.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	8.68	0.32	3.6	8.6	7.8 - 9.6	20	5.47	0.20	3.6	5.4	4.9 - 6.1
Roche Integra												
Roche Integra	29	8.53	0.23	2.7	8.5	7.6 - 9.4	30	5.40	0.14	2.5	5.4	4.8 - 6.0
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	9.19	0.22	2.4	9.2	8.2 - 10.2	59	5.71	0.14	2.4	5.7	5.1 - 6.3
All Chemistry Instruments	60	9.19	0.22	2.4	9.2	8.2 - 10.2	60	5.71	0.14	2.4	5.7	5.1 - 6.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	8.91	0.19	2.1	8.9	8.0 - 9.9	16	5.53	0.12	2.1	5.5	4.9 - 6.1
All Chemistry Instruments	18	8.88	0.19	2.2	8.9	7.9 - 9.8	18	5.53	0.11	2.0	5.5	4.9 - 6.1
VITROS												
VITROS 250,350,500,700,750,950	33	8.14	0.17	2.1	8.2	7.3 - 9.0	33	5.56	0.14	2.6	5.5	5.0 - 6.2
All Chemistry Instruments	37	8.13	0.18	2.2	8.2	7.3 - 9.0	38	5.55	0.16	2.9	5.5	4.9 - 6.2

Protein, Total (g/dL)
Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	317	5.75	0.19	3.4	5.8	5.1 - 6.4
All Alfa Wassermann Reagents	57	5.80	0.14	2.4	5.8	5.2 - 6.4
All Horiba Pentra Reagents	21	5.67	0.15	2.6	5.6	5.1 - 6.3
All Roche Integra/c111/c501 Reagents	36	5.62	0.15	2.7	5.6	5.0 - 6.2
All Vital Diagnostics Reagents	21	5.79	0.15	2.6	5.8	5.2 - 6.4
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	5.9	5.3 - 6.6
Abaxis Piccolo	9	-	-	-	6.0	5.3 - 6.6
All Chemistry Instruments	18	5.92	0.10	1.7	5.9	5.3 - 6.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	51	5.82	0.14	2.3	5.8	5.2 - 6.4
Beckman AU						
Beckman AU systems	28	5.61	0.10	1.7	5.6	5.0 - 6.2
Carolina Liquid Chemistries						
All Chemistry Instruments	10	5.66	0.26	4.7	5.8	5.0 - 6.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	5.67	0.15	2.7	5.6	5.0 - 6.3
Roche Integra						
Roche Integra	30	5.60	0.14	2.5	5.6	5.0 - 6.2
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	59	5.93	0.14	2.4	5.9	5.3 - 6.6
All Chemistry Instruments	60	5.93	0.14	2.4	5.9	5.3 - 6.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	5.75	0.14	2.5	5.8	5.1 - 6.4
All Chemistry Instruments	18	5.76	0.13	2.3	5.8	5.1 - 6.4
VITROS						
VITROS 250,350,500,700,750,950	33	5.63	0.15	2.6	5.6	5.0 - 6.2
All Chemistry Instruments	38	5.62	0.17	3.0	5.6	5.0 - 6.2

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	338	24.3	1.9	7.7	25	22 - 27	335	6.8	0.8	12.5	7	4 - 9
All Alfa Wassermann Reagents	62	25.1	1.1	4.4	25	22 - 28	60	6.9	0.7	10.2	7	4 - 9
All Horiba Pentra Reagents	21	23.7	1.3	5.4	24	21 - 26	21	6.5	0.8	12.5	7	4 - 9
All Roche Integra/c1111/c501 Reagents	36	24.1	0.8	3.4	24	21 - 27	37	6.5	0.5	7.8	7	4 - 9
All Vital Diagnostics Reagents	22	26.5	1.2	4.6	26	24 - 29	22	8.0	0.8	9.8	8	6 - 11
Abaxis Piccolo												
Abaxis Piccolo - waived	23	23.6	0.8	3.6	24	21 - 26	23	7.5	0.8	11.2	8	5 - 10
Abaxis Piccolo	10	23.1	0.7	3.2	23	21 - 26	10	7.5	0.7	9.4	7	5 - 10
All Chemistry Instruments	33	23.5	0.8	3.5	23	21 - 26	32	7.4	0.7	9.0	7	5 - 10
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	30	25.0	1.0	4.0	25	22 - 28	29	6.8	0.8	12.3	7	4 - 9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	25.2	1.2	4.9	25	22 - 28	31	7.0	0.5	7.8	7	4 - 9
Beckman AU												
Beckman AU systems	29	25.4	0.8	3.1	25	23 - 28	29	7.0	0.5	6.6	7	5 - 9
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	23.8	1.3	5.4	24	21 - 26	20	6.5	0.8	12.7	7	4 - 9
Roche Integra												
Roche Integra	30	24.0	0.8	3.5	24	21 - 27	31	6.5	0.5	7.8	7	4 - 9
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	57	25.1	0.9	3.7	25	22 - 28	56	6.6	0.7	10.7	7	4 - 9
All Chemistry Instruments	59	25.1	0.9	3.7	25	22 - 28	58	6.6	0.7	10.6	7	4 - 9
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	26.5	1.2	4.6	26	24 - 29	16	8.4	0.5	6.0	8	6 - 11
All Chemistry Instruments	19	26.4	1.2	4.4	26	24 - 29	19	8.3	0.6	6.8	8	6 - 11
VITROS												
VITROS 250,350,500,700,750,950	30	20.4	0.7	3.3	20	18 - 23	30	5.9	0.4	6.2	6	3 - 8
All Chemistry Instruments	38	20.4	0.6	3.1	20	18 - 23	38	5.9	0.4	6.6	6	3 - 8

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	322	18.7	1.2	6.6	19	16 - 21	322	42.0	3.3	7.8	43	38 - 46
All Alfa Wassermann Reagents	62	18.8	0.9	4.9	19	16 - 21	61	44.0	1.7	4.0	44	39 - 48
All Horiba Pentra Reagents	21	18.1	1.3	7.2	18	16 - 21	20	41.7	1.4	3.3	42	37 - 46
All Roche Integra/c111/c501 Reagents	37	18.1	0.8	4.4	18	16 - 21	36	41.8	1.3	3.2	42	38 - 46
All Vital Diagnostics Reagents	22	20.7	1.0	5.0	21	18 - 23	22	44.1	2.1	4.8	44	40 - 49
Abaxis Piccolo												
Abaxis Piccolo - waived	10	17.8	0.6	3.6	18	15 - 20	10	40.4	0.5	1.3	40	36 - 45
Abaxis Piccolo	8	-	-	-	18	15 - 20	8	-	-	-	40	36 - 44
All Chemistry Instruments	18	17.9	0.7	4.0	18	15 - 20	18	40.2	0.9	2.1	40	36 - 44
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	30	18.7	1.0	5.5	19	16 - 21	30	43.9	1.9	4.4	44	39 - 48
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	18.9	0.8	4.3	19	16 - 21	31	44.0	1.5	3.5	44	40 - 48
Beckman AU												
Beckman AU systems	29	19.3	0.8	4.1	19	17 - 22	29	43.5	1.5	3.4	44	39 - 48
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	18.2	1.3	7.3	18	16 - 21	19	41.8	1.4	3.2	42	38 - 46
Roche Integra												
Roche Integra	31	18.0	0.8	4.4	18	15 - 20	30	41.7	1.3	3.2	41	37 - 46
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	58	19.1	0.9	4.9	19	17 - 22	58	43.5	1.3	3.0	44	39 - 48
All Chemistry Instruments	60	19.1	0.9	4.9	19	17 - 22	60	43.5	1.3	3.1	44	39 - 48
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	21.1	0.9	4.4	21	19 - 24	16	44.4	2.1	4.8	44	40 - 49
All Chemistry Instruments	19	20.9	0.9	4.4	21	18 - 23	19	44.3	2.1	4.8	44	40 - 49
VITROS												
VITROS 250,350,500,700,750,950	30	17.0	0.5	2.9	17	14 - 19	30	34.8	1.1	3.1	35	31 - 38
All Chemistry Instruments	37	16.9	0.5	3.1	17	14 - 19	38	34.7	1.0	3.0	35	31 - 38

Urea Nitrogen (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	321	27.5	2.0	7.2	28	25 - 30
All Alfa Wassermann Reagents	62	28.4	1.2	4.2	28	25 - 31
All Horiba Pentra Reagents	21	27.0	1.1	4.0	27	24 - 30
All Roche Integra/c111/c501 Reagents	36	27.0	0.8	3.1	27	24 - 30
All Vital Diagnostics Reagents	21	29.6	1.3	4.5	29	26 - 33
Abaxis Piccolo						
Abaxis Piccolo - waived	10	26.4	0.5	2.0	26	24 - 29
Abaxis Piccolo	8	-	-	-	26	23 - 29
All Chemistry Instruments	18	26.2	0.7	2.8	26	23 - 29
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	30	28.2	1.3	4.7	28	25 - 31
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	32	28.5	1.1	3.8	28	25 - 32
Beckman AU						
Beckman AU systems	29	28.3	0.8	2.9	28	25 - 31
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	27.1	1.1	4.1	27	24 - 30
Roche Integra						
Roche Integra	30	26.9	0.9	3.2	27	24 - 30
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	58	28.2	1.2	4.2	28	25 - 31
All Chemistry Instruments	60	28.2	1.2	4.3	28	25 - 31
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	29.8	1.2	4.2	30	27 - 33
All Chemistry Instruments	19	29.6	1.2	4.1	29	26 - 33
VITROS						
VITROS 250,350,500,700,750,950	30	23.4	0.7	2.9	23	21 - 26
All Chemistry Instruments	38	23.4	0.7	3.1	23	21 - 26

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	210	9.96	0.46	4.7	9.9	8.2 - 11.7	212	6.66	0.39	5.8	6.6	5.5 - 7.8
All Alfa Wassermann Reagents	37	10.29	0.35	3.4	10.3	8.5 - 12.1	37	7.09	0.37	5.2	7.0	5.8 - 8.3
All Roche Integra/c111/c501 Reagents	25	9.88	0.29	2.9	9.9	8.2 - 11.6	25	6.55	0.20	3.1	6.6	5.4 - 7.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	10.31	0.35	3.4	10.3	8.5 - 12.1	35	7.06	0.43	6.2	7.0	5.8 - 8.3
Beckman AU												
Beckman AU systems	20	10.44	0.20	1.9	10.5	8.6 - 12.3	21	7.05	0.17	2.5	7.0	5.8 - 8.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	9.81	0.26	2.6	9.8	8.1 - 11.5	16	6.56	0.13	2.0	6.6	5.4 - 7.7
Roche Integra												
Roche Integra	21	9.83	0.27	2.7	9.9	8.1 - 11.5	21	6.51	0.17	2.6	6.5	5.4 - 7.7
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	38	9.86	0.17	1.7	9.8	8.1 - 11.6	39	6.48	0.15	2.3	6.5	5.3 - 7.6
All Chemistry Instruments	39	9.86	0.17	1.7	9.8	8.1 - 11.6	40	6.49	0.15	2.3	6.5	5.3 - 7.6
Vital Diagnostics												
All Chemistry Instruments	11	10.17	0.69	6.7	10.1	8.4 - 12.0	11	6.76	0.35	5.2	6.7	5.6 - 8.0
VITROS												
VITROS 250,350,500,700,750,950	20	9.46	0.31	3.3	9.6	7.8 - 11.1	21	6.19	0.17	2.8	6.2	5.1 - 7.3
All Chemistry Instruments	24	9.47	0.28	3.0	9.6	7.8 - 11.1	25	6.20	0.17	2.8	6.3	5.1 - 7.3

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	211	2.71	0.61	22.6	2.5	2.2 - 3.2	211	13.24	0.59	4.5	13.2	10.9 - 15.5
All Alfa Wassermann Reagents	38	3.86	0.20	5.3	3.8	3.2 - 4.6	38	13.38	0.48	3.6	13.5	11.1 - 15.7
All Roche Integra/c111/c501 Reagents	25	2.25	0.10	4.3	2.2	1.8 - 2.7	25	13.10	0.33	2.5	13.1	10.8 - 15.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	35	3.87	0.21	5.4	3.8	3.2 - 4.6	35	13.39	0.49	3.6	13.5	11.1 - 15.7
Beckman AU												
Beckman AU systems	21	2.45	0.09	3.6	2.4	2.0 - 2.9	21	13.94	0.38	2.7	13.9	11.5 - 16.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	2.19	0.14	6.5	2.2	1.8 - 2.6	16	13.01	0.54	4.1	13.1	10.8 - 15.3
Roche Integra												
Roche Integra	21	2.22	0.07	3.1	2.2	1.8 - 2.7	21	13.04	0.32	2.4	13.1	10.8 - 15.3
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	39	2.68	0.14	5.1	2.7	2.2 - 3.2	39	13.24	0.27	2.0	13.2	10.9 - 15.5
All Chemistry Instruments	40	2.69	0.14	5.1	2.7	2.2 - 3.2	40	13.24	0.27	2.0	13.2	10.9 - 15.5
Vital Diagnostics												
All Chemistry Instruments	11	2.64	0.57	21.6	2.5	2.1 - 3.1	11	13.46	0.71	5.2	13.5	11.1 - 15.8
VITROS												
VITROS 250,350,500,700,750,950	21	2.33	0.09	3.9	2.3	1.9 - 2.8	21	12.91	0.31	2.4	12.9	10.7 - 15.2
All Chemistry Instruments	25	2.34	0.09	3.7	2.3	1.9 - 2.8	25	12.94	0.31	2.4	12.9	10.7 - 15.2

Uric Acid (mg/dL)

Specimen CH-5						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	209	8.89	0.39	4.3	8.9	7.3 - 10.5
All Alfa Wassermann Reagents	38	9.10	0.42	4.6	9.0	7.5 - 10.7
All Roche Integra/c111/c501 Reagents	25	8.78	0.24	2.7	8.8	7.2 - 10.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	35	9.12	0.44	4.8	9.1	7.5 - 10.7
Beckman AU						
Beckman AU systems	21	9.31	0.27	2.9	9.3	7.7 - 10.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	8.73	0.22	2.5	8.7	7.2 - 10.3
Roche Integra						
Roche Integra	21	8.74	0.23	2.6	8.8	7.2 - 10.3
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	40	8.90	0.22	2.4	8.9	7.3 - 10.5
All Chemistry Instruments	41	8.90	0.22	2.4	8.9	7.3 - 10.5
Vital Diagnostics						
All Chemistry Instruments	11	9.15	0.51	5.6	9.1	7.5 - 10.8
VITROS						
VITROS 250,350,500,700,750,950	21	8.55	0.25	2.9	8.6	7.0 - 10.1
All Chemistry Instruments	25	8.57	0.24	2.8	8.6	7.1 - 10.1

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	332	97.6	2.2	2.3	98	92 - 103	332	107.4	3.1	2.9	107	102 - 113
Abaxis Piccolo												
Abaxis Piccolo - waived	21	99.1	1.3	1.3	99	94 - 105	21	107.4	1.7	1.6	107	102 - 113
Abaxis Piccolo	12	98.3	1.8	1.8	99	93 - 104	12	107.3	1.9	1.7	108	101 - 113
All Chemistry Instruments	33	98.8	1.5	1.5	99	93 - 104	33	107.3	1.8	1.6	107	101 - 113
ISE Diluted												
Beckman AU systems	29	97.3	1.8	1.8	97	92 - 103	28	107.3	1.6	1.5	107	101 - 113
Roche Integra	28	97.7	1.2	1.2	98	92 - 103	28	108.1	1.1	1.1	108	102 - 114
Siemens Dimension QuickLyte - RxL	11	97.6	1.7	1.8	97	92 - 103	11	111.0	2.3	2.1	111	105 - 117
Siemens Dimension QuickLyte - Xpand/EXL	34	99.9	1.4	1.4	100	94 - 105	35	112.7	2.0	1.8	113	107 - 119
Vital Diagnostics Envoy 500	11	100.1	1.5	1.5	100	95 - 106	12	109.4	3.6	3.3	108	103 - 115
All Chemistry Instruments	156	98.0	2.1	2.1	98	93 - 103	158	109.0	3.0	2.8	108	103 - 115
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	57	97.8	1.9	1.9	98	92 - 103	56	106.1	1.2	1.1	106	100 - 112
Horiba ABX Pentra 400	14	96.6	2.7	2.8	96	91 - 102	13	104.8	2.2	2.1	104	99 - 111
All Chemistry Instruments	96	97.6	2.2	2.2	98	92 - 103	95	106.2	1.9	1.8	106	100 - 112
VITROS												
VITROS 250,350,500,700,750,950	32	94.9	1.2	1.2	95	90 - 100	32	103.7	1.2	1.1	104	98 - 109
All Chemistry Instruments	36	94.8	1.2	1.2	95	90 - 100	36	103.5	1.2	1.2	103	98 - 109

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	316	122.5	4.8	3.9	123	116 - 129	317	87.6	2.4	2.7	87	83 - 92
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	117	110 - 123	9	-	-	-	90	85 - 95
Abaxis Piccolo	10	116.3	1.3	1.2	117	110 - 123	10	89.5	1.5	1.7	89	85 - 94
All Chemistry Instruments	19	116.5	1.3	1.2	117	110 - 123	19	89.8	1.4	1.6	90	85 - 95
ISE Diluted												
Beckman AU systems	29	118.6	2.5	2.1	119	112 - 125	28	87.4	1.1	1.3	87	83 - 92
Roche Integra	28	122.8	2.6	2.1	122	116 - 129	28	87.2	1.8	2.1	87	82 - 92
Siemens Dimension QuickLyte - RxL	11	127.3	2.5	1.9	127	120 - 134	11	84.5	1.4	1.6	85	80 - 89
Siemens Dimension QuickLyte - Xpand/EXL	35	127.1	2.4	1.9	127	120 - 134	35	86.9	1.5	1.8	87	82 - 92
Vital Diagnostics Envoy 500	11	126.6	1.8	1.4	126	120 - 133	11	92.2	1.3	1.4	92	87 - 97
All Chemistry Instruments	158	123.3	4.4	3.6	124	117 - 130	157	87.3	2.4	2.8	87	82 - 92
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	55	125.2	1.7	1.4	125	118 - 132	56	88.1	2.1	2.4	88	83 - 93
Horiba ABX Pentra 400	10	124.5	4.5	3.6	125	118 - 131	14	88.3	3.9	4.5	88	83 - 93
All Chemistry Instruments	91	124.4	3.4	2.7	124	118 - 131	95	88.1	2.4	2.8	88	83 - 93
VITROS												
VITROS 250,350,500,700,750,950	32	116.8	1.4	1.2	117	110 - 123	32	86.7	1.1	1.3	87	82 - 91
All Chemistry Instruments	36	116.7	1.4	1.2	117	110 - 123	36	86.5	1.2	1.3	87	82 - 91

Chloride (mmol/L)

Specimen CH-5						
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	317	101.2	2.3	2.3	101	96 - 107
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	103	96 - 107
Abaxis Piccolo	10	101.3	2.1	2.0	102	96 - 107
All Chemistry Instruments	19	101.9	1.8	1.8	102	96 - 107
ISE Diluted						
Beckman AU systems	29	100.1	1.5	1.5	100	95 - 106
Roche Integra	28	101.2	1.4	1.4	101	96 - 107
Siemens Dimension QuickLyte - RxL	11	101.6	2.0	1.9	102	96 - 107
Siemens Dimension QuickLyte - Xpand/EXL	35	103.3	1.8	1.7	103	98 - 109
Vital Diagnostics Envoy 500	11	105.4	1.7	1.7	105	100 - 111
All Chemistry Instruments	158	101.6	2.2	2.2	101	96 - 107
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	55	101.2	1.5	1.5	101	96 - 107
Horiba ABX Pentra 400	14	102.9	5.4	5.2	102	97 - 109
All Chemistry Instruments	94	101.4	2.1	2.1	101	96 - 107
VITROS						
VITROS 250,350,500,700,750,950	32	98.6	1.2	1.3	98	93 - 104
All Chemistry Instruments	36	98.5	1.2	1.2	98	93 - 104

CO₂ (mmol/L)

Specimen CH-1							Specimen CH-2					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	330	21.9	1.9	8.7	22	17 - 27	332	29.0	2.4	8.2	29	23 - 35
Enzymatic Reagent												
Abaxis Piccolo - waived	18	23.1	1.0	4.4	23	18 - 28	18	30.3	1.2	4.1	31	24 - 37
Abaxis Piccolo	11	22.5	0.8	3.7	22	17 - 27	11	29.6	1.1	3.8	30	23 - 36
Alfa Wassermann ACE Alera/Axcel	37	22.9	1.9	8.2	23	18 - 28	37	30.5	2.1	6.9	31	24 - 37
Beckman AU systems	30	22.1	1.5	6.9	22	17 - 27	30	29.5	1.9	6.3	29	23 - 36
Horiba ABX Pentra 400	13	22.8	1.6	7.1	23	18 - 28	13	29.5	1.5	5.1	29	23 - 36
Roche Integra	28	20.6	1.7	8.2	21	16 - 25	28	27.9	1.8	6.3	28	22 - 34
Siemens Dimension QuickLyte - Xpand/EXL	10	23.2	1.8	7.8	24	18 - 28	10	30.5	2.0	6.4	31	24 - 37
Siemens Dimension/AR/ES/RxL/Xpand/EXL	39	22.7	1.2	5.5	23	18 - 28	40	30.7	1.5	4.8	31	24 - 37
All Chemistry Instruments	207	22.3	1.8	8.1	23	17 - 27	208	29.7	2.0	6.7	30	23 - 36
ISE Diluted												
Vital Diagnostics Envoy 500	11	21.1	3.0	14.3	21	16 - 26	11	26.5	1.8	6.6	26	21 - 32
All Chemistry Instruments	39	21.2	2.2	10.5	21	16 - 26	39	28.1	2.3	8.3	28	22 - 34
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	16	22.6	1.5	6.5	23	18 - 28	15	31.1	1.6	5.3	31	24 - 38
All Chemistry Instruments	37	22.3	1.8	7.9	23	17 - 27	36	29.7	2.5	8.5	30	23 - 36
VITROS												
VITROS 250,350,500,700,750,950	29	20.3	1.2	5.7	20	16 - 25	29	25.9	1.1	4.1	26	20 - 32
All Chemistry Instruments	33	20.3	1.2	5.7	20	16 - 25	33	25.9	1.0	4.0	26	20 - 32

Specimen CH-3							Specimen CH-4					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	319	38.4	3.1	8.2	38	30 - 47	315	14.1	1.8	12.5	14	11 - 17
Enzymatic Reagent												
Abaxis Piccolo - waived	7	-	-	-	36	31 - 47	7	-	-	-	13	11 - 18
Abaxis Piccolo	9	-	-	-	36	31 - 47	9	-	-	-	14	11 - 18
Alfa Wassermann ACE Alera/Axcel	38	40.6	3.0	7.4	41	32 - 49	37	14.7	2.1	14.1	15	11 - 18
Beckman AU systems	30	38.7	2.8	7.1	39	30 - 47	30	14.3	1.7	11.8	15	11 - 18
Horiba ABX Pentra 400	13	39.1	2.1	5.3	39	31 - 47	13	15.2	1.7	11.4	15	12 - 19
Roche Integra	28	36.5	2.3	6.4	37	29 - 44	27	13.0	1.7	13.2	13	10 - 16
Siemens Dimension QuickLyte - Xpand/EXL	10	39.9	2.5	6.2	40	31 - 48	10	14.8	1.1	7.7	15	11 - 18
Siemens Dimension/AR/ES/RxL/Xpand/EXL	39	40.5	1.9	4.8	41	32 - 49	40	15.2	1.3	8.7	15	12 - 19
All Chemistry Instruments	194	39.0	2.9	7.4	39	31 - 47	194	14.3	1.8	12.2	14	11 - 18
ISE Diluted												
Vital Diagnostics Envoy 500	11	37.0	4.2	11.3	36	29 - 45	11	13.1	2.0	15.5	13	10 - 16
All Chemistry Instruments	39	37.8	3.4	9.0	38	30 - 46	39	13.8	1.8	12.8	14	11 - 17
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	16	41.1	2.4	5.8	42	32 - 50	16	14.1	1.7	12.0	14	11 - 17
All Chemistry Instruments	37	39.1	3.2	8.2	39	31 - 47	37	14.5	1.6	10.9	14	11 - 18
VITROS												
VITROS 250,350,500,700,750,950	30	35.6	1.9	5.3	36	28 - 43	29	12.6	1.2	9.7	12	10 - 16
All Chemistry Instruments	34	35.7	1.8	5.0	36	28 - 43	33	12.6	1.2	9.9	12	10 - 16

CO₂ (mmol/L)**Specimen CH-5**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	319	23.4	2.5	10.7	24	18 - 29
Enzymatic Reagent						
Abaxis Piccolo - waived	7	-	-	-	25	19 - 29
Abaxis Piccolo	9	-	-	-	25	19 - 29
Alfa Wassermann ACE Alera/Axcel	38	24.7	2.5	10.1	25	19 - 30
Beckman AU systems	30	23.4	2.4	10.3	24	18 - 29
Horiba ABX Pentra 400	13	24.3	1.7	6.8	24	19 - 30
Roche Integra	28	22.3	2.2	9.7	22	17 - 27
Siemens Dimension QuickLyte - Xpand/EXL	10	24.2	1.6	6.7	25	19 - 30
Siemens Dimension/AR/ES/RxL/Xpand/EXL	39	25.3	1.5	5.9	26	20 - 31
All Chemistry Instruments	196	24.0	2.3	9.7	24	19 - 29
ISE Diluted						
Vital Diagnostics Envoy 500	11	22.2	2.3	10.4	22	17 - 27
All Chemistry Instruments	39	22.7	2.0	8.8	23	18 - 28
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	16	24.3	3.0	12.2	25	19 - 30
All Chemistry Instruments	37	23.6	2.8	11.7	24	18 - 29
VITROS						
VITROS 250,350,500,700,750,950	30	21.3	1.7	8.0	21	17 - 26
All Chemistry Instruments	34	21.3	1.7	7.9	21	17 - 26

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	335	3.48	0.07	2.1	3.5	2.9 - 4.0	334	4.44	0.09	2.0	4.4	3.9 - 5.0
Abaxis Piccolo												
Abaxis Piccolo - waived	21	3.36	0.17	5.2	3.4	2.8 - 3.9	21	4.55	0.22	4.8	4.6	4.0 - 5.1
Abaxis Piccolo	12	3.38	0.13	3.7	3.4	2.8 - 3.9	12	4.58	0.14	3.0	4.6	4.0 - 5.1
All Chemistry Instruments	33	3.37	0.16	4.7	3.4	2.8 - 3.9	33	4.56	0.19	4.2	4.6	4.0 - 5.1
ISE Diluted												
Beckman AU systems	29	3.49	0.04	1.1	3.5	2.9 - 4.0	28	4.45	0.06	1.4	4.5	3.9 - 5.0
Roche Integra	30	3.51	0.04	1.0	3.5	3.0 - 4.1	30	4.49	0.05	1.1	4.5	3.9 - 5.0
Siemens Dimension QuickLyte - RxL	11	3.45	0.05	1.5	3.5	2.9 - 4.0	11	4.44	0.07	1.5	4.4	3.9 - 5.0
Siemens Dimension QuickLyte - Xpand/EXL	34	3.49	0.04	1.0	3.5	2.9 - 4.0	34	4.49	0.05	1.1	4.5	3.9 - 5.0
Vital Diagnostics Envoy 500	11	3.38	0.09	2.6	3.4	2.8 - 3.9	11	4.38	0.08	1.7	4.4	3.8 - 4.9
All Chemistry Instruments	158	3.48	0.06	1.6	3.5	2.9 - 4.0	157	4.46	0.07	1.6	4.5	3.9 - 5.0
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	57	3.50	0.08	2.4	3.5	3.0 - 4.0	57	4.42	0.06	1.4	4.4	3.9 - 5.0
Horiba ABX Pentra 400	15	3.51	0.06	1.7	3.5	3.0 - 4.1	15	4.31	0.05	1.2	4.3	3.8 - 4.9
All Chemistry Instruments	101	3.48	0.08	2.4	3.5	2.9 - 4.0	99	4.40	0.08	1.7	4.4	3.9 - 4.9
VITROS												
VITROS 250,350,500,700,750,950	33	3.51	0.07	2.1	3.5	3.0 - 4.1	32	4.42	0.06	1.3	4.4	3.9 - 5.0
All Chemistry Instruments	40	3.51	0.06	1.7	3.5	3.0 - 4.1	41	4.41	0.07	1.6	4.4	3.9 - 5.0

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	327	6.64	0.22	3.3	6.6	6.1 - 7.2	319	2.52	0.11	4.5	2.5	2.0 - 3.1
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	6.4	6.0 - 7.1	9	-	-	-	2.1	1.6 - 2.7
Abaxis Piccolo	10	6.46	0.27	4.1	6.6	5.9 - 7.0	10	2.11	0.17	8.2	2.2	1.6 - 2.7
All Chemistry Instruments	18	6.52	0.15	2.2	6.5	6.0 - 7.1	19	2.11	0.16	7.7	2.1	1.6 - 2.7
ISE Diluted												
Beckman AU systems	29	6.47	0.15	2.3	6.5	5.9 - 7.0	28	2.53	0.06	2.4	2.5	2.0 - 3.1
Roche Integra	29	6.56	0.07	1.1	6.6	6.0 - 7.1	30	2.52	0.04	1.7	2.5	2.0 - 3.1
Siemens Dimension QuickLyte - RxL	11	6.53	0.10	1.5	6.5	6.0 - 7.1	11	2.47	0.05	1.9	2.5	1.9 - 3.0
Siemens Dimension QuickLyte - Xpand/EXL	35	6.57	0.09	1.4	6.6	6.0 - 7.1	35	2.45	0.05	2.1	2.4	1.9 - 3.0
Vital Diagnostics Envoy 500	11	6.36	0.13	2.0	6.3	5.8 - 6.9	11	2.43	0.09	3.7	2.4	1.9 - 3.0
All Chemistry Instruments	155	6.55	0.12	1.9	6.5	6.0 - 7.1	157	2.50	0.07	3.0	2.5	1.9 - 3.0
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	57	6.97	0.15	2.2	7.0	6.4 - 7.5	55	2.58	0.10	4.1	2.6	2.0 - 3.1
Horiba ABX Pentra 400	15	6.49	0.15	2.2	6.5	5.9 - 7.0	15	2.67	0.07	2.7	2.7	2.1 - 3.2
All Chemistry Instruments	102	6.77	0.29	4.3	6.8	6.2 - 7.3	99	2.57	0.11	4.4	2.6	2.0 - 3.1
VITROS												
VITROS 250,350,500,700,750,950	31	6.83	0.07	1.0	6.8	6.3 - 7.4	33	2.59	0.05	1.8	2.6	2.0 - 3.1
All Chemistry Instruments	38	6.82	0.08	1.1	6.8	6.3 - 7.4	40	2.59	0.05	1.8	2.6	2.0 - 3.1

Potassium (mmol/L)

Specimen CH-5						
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	320	4.01	0.08	2.1	4.0	3.5 - 4.6
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	3.9	3.4 - 4.5
Abaxis Piccolo	10	3.92	0.25	6.3	4.0	3.4 - 4.5
All Chemistry Instruments	19	3.91	0.23	5.8	3.9	3.4 - 4.5
ISE Diluted						
Beckman AU systems	29	3.98	0.05	1.2	4.0	3.4 - 4.5
Roche Integra	30	4.02	0.05	1.2	4.0	3.5 - 4.6
Siemens Dimension QuickLyte - RxL	11	3.96	0.05	1.3	4.0	3.4 - 4.5
Siemens Dimension QuickLyte - Xpand/EXL	34	4.00	0.04	1.1	4.0	3.5 - 4.5
Vital Diagnostics Envoy 500	11	3.95	0.10	2.6	3.9	3.4 - 4.5
All Chemistry Instruments	155	4.00	0.05	1.4	4.0	3.4 - 4.5
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	57	4.04	0.08	1.9	4.0	3.5 - 4.6
Horiba ABX Pentra 400	15	4.01	0.05	1.1	4.0	3.5 - 4.6
All Chemistry Instruments	100	4.01	0.09	2.2	4.0	3.5 - 4.6
VITROS						
VITROS 250,350,500,700,750,950	31	4.12	0.05	1.3	4.1	3.6 - 4.7
All Chemistry Instruments	39	4.10	0.07	1.7	4.1	3.5 - 4.6

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-1							Specimen CH-2					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	341	128.8	2.1	1.6	129	124 - 133	339	137.6	2.4	1.8	138	133 - 142
Abaxis Piccolo												
Abaxis Piccolo - waived	21	131.0	1.7	1.3	131	127 - 136	21	140.0	1.6	1.2	140	136 - 144
Abaxis Piccolo	12	131.3	1.8	1.4	132	127 - 136	12	140.4	1.6	1.1	140	136 - 145
All Chemistry Instruments	33	131.2	1.7	1.3	131	127 - 136	33	140.2	1.6	1.1	140	136 - 145
ISE Diluted												
Beckman AU systems	28	127.4	1.3	1.0	128	123 - 132	26	137.2	1.2	0.9	138	133 - 142
Roche Integra	29	127.8	1.1	0.9	128	123 - 132	29	137.3	1.1	0.8	137	133 - 142
Siemens Dimension QuickLyte - RxL	11	128.6	1.6	1.2	129	124 - 133	11	137.9	2.0	1.5	138	133 - 142
Siemens Dimension QuickLyte - Xpand/EXL	34	130.2	1.5	1.1	130	126 - 135	35	139.5	1.7	1.2	140	135 - 144
Vital Diagnostics Envoy 500	11	127.6	1.7	1.4	128	123 - 132	11	138.8	1.6	1.2	139	134 - 143
All Chemistry Instruments	154	128.6	1.7	1.3	128	124 - 133	155	138.1	1.8	1.3	138	134 - 143
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	58	127.2	1.9	1.5	127	123 - 132	57	134.5	1.4	1.0	135	130 - 139
Horiba ABX Pentra 400	15	128.2	1.3	1.0	128	124 - 133	15	135.6	1.4	1.0	136	131 - 140
All Chemistry Instruments	104	127.6	1.9	1.5	128	123 - 132	103	135.6	2.1	1.6	135	131 - 140
VITROS												
VITROS 250,350,500,700,750,950	33	130.2	1.6	1.3	130	126 - 135	33	139.0	1.8	1.3	139	135 - 144
All Chemistry Instruments	37	130.1	1.6	1.2	130	126 - 135	37	139.1	1.8	1.3	139	135 - 144

Sodium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	326	158.7	4.7	2.9	158	154 - 163	325	119.7	2.2	1.9	120	115 - 124
Abaxis Piccolo												
Abaxis Piccolo - waived	9	-	-	-	162	160 - 169	9	-	-	-	123	118 - 127
Abaxis Piccolo	10	165.1	2.0	1.2	165	161 - 170	10	122.5	1.8	1.5	123	118 - 127
All Chemistry Instruments	19	164.4	2.3	1.4	165	160 - 169	19	122.6	1.8	1.5	123	118 - 127
ISE Diluted												
Beckman AU systems	28	153.1	2.1	1.4	154	149 - 158	26	118.1	1.1	0.9	118	114 - 123
Roche Integra	29	154.4	1.4	0.9	154	150 - 159	29	118.1	1.1	1.0	118	114 - 123
Siemens Dimension QuickLyte - RxL	11	153.9	2.6	1.7	154	149 - 158	11	119.6	1.7	1.4	120	115 - 124
Siemens Dimension QuickLyte - Xpand/EXL	35	155.2	1.8	1.1	155	151 - 160	35	120.2	1.4	1.2	120	116 - 125
Vital Diagnostics Envoy 500	11	156.8	2.8	1.8	156	152 - 161	11	118.0	2.3	1.9	117	114 - 122
All Chemistry Instruments	156	155.3	2.8	1.8	155	151 - 160	154	119.2	1.7	1.4	119	115 - 124
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	57	162.3	1.7	1.0	162	158 - 167	58	118.7	1.9	1.6	119	114 - 123
Horiba ABX Pentra 400	15	160.9	2.6	1.6	161	156 - 165	15	121.0	1.3	1.1	121	117 - 125
All Chemistry Instruments	103	160.3	3.5	2.2	161	156 - 165	104	119.0	2.0	1.7	119	114 - 123
VITROS												
VITROS 250,350,500,700,750,950	33	165.0	2.0	1.2	165	160 - 169	33	122.4	1.6	1.3	122	118 - 127
All Chemistry Instruments	37	165.0	2.0	1.2	165	160 - 169	37	122.3	1.6	1.3	122	118 - 127

Sodium (mmol/L)

Specimen CH-5						
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	324	133.6	2.4	1.8	133	129 - 138
Abaxis Piccolo						
Abaxis Piccolo - waived	9	-	-	-	136	132 - 141
Abaxis Piccolo	10	136.0	2.2	1.6	137	132 - 140
All Chemistry Instruments	19	136.1	1.7	1.2	136	132 - 141
ISE Diluted						
Beckman AU systems	28	131.4	1.3	1.0	132	127 - 136
Roche Integra	29	131.9	1.4	1.0	132	127 - 136
Siemens Dimension QuickLyte - RxL	11	132.6	2.2	1.7	133	128 - 137
Siemens Dimension QuickLyte - Xpand/EXL	35	133.8	1.7	1.3	134	129 - 138
Vital Diagnostics Envoy 500	11	133.7	2.2	1.6	134	129 - 138
All Chemistry Instruments	157	132.9	1.9	1.4	133	128 - 137
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	57	132.8	1.5	1.1	133	128 - 137
Horiba ABX Pentra 400	15	134.3	1.6	1.2	134	130 - 139
All Chemistry Instruments	102	132.9	1.9	1.4	133	128 - 137
VITROS						
VITROS 250,350,500,700,750,950	33	137.4	1.7	1.2	138	133 - 142
All Chemistry Instruments	37	137.2	1.8	1.3	137	133 - 142

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	175.6	38.9	22.2	191	97 - 254	26	126.4	21.5	17.0	131	83 - 170
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	28	175.6	38.9	22.2	191	97 - 254	26	126.4	21.5	17.0	131	83 - 170
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	344.1	75.2	21.9	377	193 - 495	29	233.1	57.6	24.7	252	117 - 349
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	28	344.1	75.2	21.9	377	193 - 495	29	233.1	57.6	24.7	252	117 - 349
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	232.7	53.9	23.2	253	124 - 341						
Calculated TIBC (TRF x CF)												
All Chemistry Instruments	29	232.7	53.9	23.2	253	124 - 341						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	45	165.6	42.6	25.7	149	80 - 251	45	115.5	37.4	32.4	98	40 - 191
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	133.4	12.6	9.5	133	106 - 161	25	85.1	9.5	11.2	85	66 - 105
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	45	328.7	105.8	32.2	294	117 - 541	45	217.4	50.8	23.3	197	115 - 319
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	292.2	13.3	4.6	290	233 - 351	25	184.4	11.8	6.4	187	147 - 222
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	45	222.0	61.4	27.6	200	99 - 345						
Siemens (Dade) Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	188.4	13.0	6.9	187	150 - 227						

UIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	82.9	7.7	9.3	82	66 - 100	38	73.1	5.3	7.3	72	58 - 88
All Roche Integra/c 501 reagents	15	81.7	8.7	10.6	81	64 - 99	15	72.9	6.5	8.9	71	58 - 88
Beckman AU												
Beckman AU systems	12	84.8	5.5	6.5	86	67 - 102	12	73.3	3.0	4.0	74	58 - 88
Roche Integra												
Roche Integra	13	83.5	7.8	9.3	82	66 - 101	13	73.8	6.4	8.7	72	59 - 89
<u>Method/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	148.1	12.9	8.7	151	118 - 178	38	91.9	6.6	7.1	92	73 - 111
All Roche Integra/c 501 reagents	15	151.3	9.2	6.1	150	121 - 182	15	91.5	7.1	7.7	90	73 - 110
Beckman AU												
Beckman AU systems	12	155.6	7.4	4.8	155	124 - 187	12	94.3	5.1	5.4	96	75 - 114
Roche Integra												
Roche Integra	13	153.2	8.2	5.4	152	122 - 184	13	92.6	6.7	7.3	90	74 - 112
<u>Method/Instrument</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	38	102.3	8.6	8.4	102	81 - 123						
All Roche Integra/c 501 reagents	15	103.8	10.1	9.7	100	83 - 125						
Beckman AU												
Beckman AU systems	12	104.0	7.1	6.9	104	83 - 125						
Roche Integra												
Roche Integra	13	104.9	10.4	9.9	102	83 - 126						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	337	138.8	13.8	10.0	139	111 - 167	330	18.0	7.8	43.3	16	14 - 22
All Horiba Pentra Reagents	22	152.1	5.6	3.7	154	121 - 183	21	17.2	1.2	6.8	17	13 - 21
All Roche Integra/c111/c501 Reagents	35	138.1	2.6	1.9	138	110 - 166	36	14.7	0.9	6.0	15	11 - 18
All Vital Diagnostics Reagents	19	148.9	4.6	3.1	150	119 - 179	21	15.2	1.4	9.0	15	12 - 19
Abaxis Piccolo												
Abaxis Piccolo - waived	21	127.5	3.8	3.0	128	101 - 153	21	19.2	2.4	12.6	20	15 - 24
Abaxis Piccolo	12	127.8	2.7	2.1	128	102 - 154	12	18.3	3.0	16.2	19	14 - 22
All Chemistry Instruments	33	127.6	3.4	2.7	128	102 - 154	33	18.8	2.6	13.9	19	15 - 23
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	30	121.1	3.7	3.1	122	96 - 146	27	9.2	1.9	20.3	10	7 - 12
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	121.4	2.7	2.2	121	97 - 146	31	9.8	2.3	23.3	10	7 - 12
Beckman AU												
Beckman AU systems	28	125.8	2.8	2.3	125	100 - 151	28	13.8	0.8	6.1	14	11 - 17
Carolina Liquid Chemistries												
All Chemistry Instruments	10	135.0	7.9	5.8	137	108 - 162	10	15.4	2.6	16.8	16	12 - 19
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	151.9	5.6	3.7	154	121 - 183	20	17.3	1.2	6.8	17	13 - 21
Roche Integra												
Roche Integra	30	137.9	2.5	1.8	138	110 - 166	31	14.6	0.8	5.8	15	11 - 18
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	154.8	3.8	2.5	155	123 - 186	27	28.9	1.5	5.3	29	23 - 35
Siemens Healthcare ALTi												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	33	151.7	2.6	1.7	152	121 - 183	34	18.2	1.7	9.6	18	14 - 22
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	150.2	3.6	2.4	150	120 - 181	15	15.3	0.9	5.8	15	12 - 19
All Chemistry Instruments	18	149.4	4.3	2.9	150	119 - 180	18	15.6	1.1	7.0	15	12 - 19
VITROS												
VITROS 250,350,500,700,750,950	31	154.9	4.4	2.8	155	123 - 186	32	37.1	5.3	14.2	37	29 - 45
All Chemistry Instruments	36	155.0	4.5	2.9	155	124 - 187	37	36.9	5.0	13.5	36	29 - 45

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	323	99.3	11.2	11.3	99	79 - 120	320	260.7	22.8	8.8	265	208 - 313
All Horiba Pentra Reagents	22	108.8	5.8	5.3	111	87 - 131	22	289.5	9.5	3.3	291	231 - 348
All Roche Integra/c111/c501 Reagents	35	97.3	2.1	2.2	97	77 - 117	35	260.3	5.8	2.2	260	208 - 313
All Vital Diagnostics Reagents	21	106.9	7.5	7.1	109	85 - 129	21	275.8	14.7	5.3	281	220 - 331
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	93	73 - 111	8	-	-	-	234	186 - 280
Abaxis Piccolo	10	92.0	4.2	4.5	92	73 - 111	10	234.1	5.1	2.2	234	187 - 281
All Chemistry Instruments	18	92.3	3.8	4.1	92	73 - 111	18	233.2	6.4	2.7	234	186 - 280
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	30	83.9	2.8	3.3	84	67 - 101	29	232.8	5.1	2.2	232	186 - 280
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	83.6	3.7	4.4	83	66 - 101	28	232.5	4.9	2.1	233	186 - 280
Beckman AU												
Beckman AU systems	28	91.3	2.7	3.0	91	73 - 110	28	237.0	5.8	2.5	237	189 - 285
Carolina Liquid Chemistries												
All Chemistry Instruments	10	96.4	5.9	6.2	99	77 - 116	10	238.8	42.4	17.8	255	191 - 287
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	108.6	5.8	5.4	110	86 - 131	21	289.0	9.6	3.3	290	231 - 347
Roche Integra												
Roche Integra	30	96.9	1.7	1.8	97	77 - 117	30	260.1	5.8	2.2	260	208 - 313
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	115.7	1.9	1.7	116	92 - 139	27	279.9	6.9	2.4	280	223 - 336
Siemens Healthcare ALTi												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	34	110.1	2.1	1.9	110	88 - 133	33	283.0	3.5	1.2	283	226 - 340
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	110.1	3.2	2.9	110	88 - 133	15	281.6	7.3	2.6	282	225 - 338
All Chemistry Instruments	18	109.4	4.1	3.7	110	87 - 132	18	280.2	8.7	3.1	282	224 - 337
VITROS												
VITROS 250,350,500,700,750,950	32	105.6	4.4	4.1	105	84 - 127	32	279.4	7.2	2.6	283	223 - 336
All Chemistry Instruments	37	105.6	4.8	4.5	105	84 - 127	37	279.6	7.8	2.8	282	223 - 336

ALT (SGPT) (IU/L)

Specimen CH-5						
<u><i>Instrument/Reagent</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	322	160.0	15.4	9.6	162	127 - 192
All Horiba Pentra Reagents	22	175.8	6.7	3.8	178	140 - 211
All Roche Integra/c111/c501 Reagents	35	158.4	3.1	2.0	158	126 - 191
All Vital Diagnostics Reagents	21	171.7	10.2	5.9	173	137 - 207
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	144	115 - 174
Abaxis Piccolo	10	144.5	4.0	2.8	143	115 - 174
All Chemistry Instruments	18	144.4	4.8	3.3	143	115 - 174
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	30	140.8	4.1	2.9	141	112 - 169
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	141.3	4.3	3.1	142	113 - 170
Beckman AU						
Beckman AU systems	28	145.1	3.7	2.5	145	116 - 175
Carolina Liquid Chemistries						
All Chemistry Instruments	10	155.1	12.0	7.7	157	124 - 187
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	175.7	6.8	3.9	178	140 - 211
Roche Integra						
Roche Integra	30	158.2	3.1	2.0	158	126 - 190
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	27	176.9	4.2	2.4	177	141 - 213
Siemens Healthcare ALTi						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	34	174.5	2.8	1.6	175	139 - 210
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	174.1	4.6	2.6	174	139 - 209
All Chemistry Instruments	18	172.7	6.6	3.8	174	138 - 208
VITROS						
VITROS 250,350,500,700,750,950	32	172.7	5.7	3.3	172	138 - 208
All Chemistry Instruments	37	172.7	5.9	3.4	172	138 - 208

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	335	166.9	28.0	16.8	173	116 - 218	324	20.2	4.6	22.6	19	14 - 27
All Alfa Wassermann Reagents	60	179.9	10.1	5.6	182	125 - 234	60	19.4	1.7	8.8	19	13 - 26
All Horiba Pentra Reagents	22	195.2	9.0	4.6	193	136 - 254	22	21.6	2.6	12.0	22	15 - 29
All Roche Integra/c1111/c501 Reagents	36	173.9	6.6	3.8	173	121 - 227	35	18.1	0.9	5.2	18	12 - 24
All Vital Diagnostics Reagents	21	170.9	9.4	5.5	170	119 - 223	20	25.5	4.7	18.3	25	17 - 34
Abaxis Piccolo												
Abaxis Piccolo - waived	21	126.2	6.8	5.4	128	88 - 165	21	16.2	4.2	26.0	16	11 - 22
Abaxis Piccolo	12	121.3	7.7	6.3	122	84 - 158	11	14.8	3.3	21.9	15	10 - 20
All Chemistry Instruments	33	124.4	7.4	6.0	125	87 - 162	32	15.7	3.9	24.9	16	11 - 21
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	36	181.1	8.6	4.7	182	126 - 236	36	19.5	1.8	9.1	20	13 - 26
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	178.0	11.9	6.7	183	124 - 232	24	19.2	1.6	8.4	19	13 - 25
Beckman AU												
Beckman AU systems	30	161.6	10.6	6.5	163	113 - 211	30	17.3	1.3	7.6	17	12 - 23
Carolina Liquid Chemistries												
All Chemistry Instruments	10	136.0	9.0	6.6	136	95 - 177	10	16.1	1.9	11.5	17	11 - 21
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	195.8	8.7	4.4	193	137 - 255	21	21.8	2.5	11.6	22	15 - 29
Roche Integra												
Roche Integra	31	174.5	6.9	4.0	173	122 - 227	30	18.0	0.9	5.1	18	12 - 24
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	197.2	10.5	5.3	196	138 - 257	61	27.7	5.9	21.1	28	19 - 37
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	173.3	6.8	3.9	173	121 - 226	15	24.1	3.4	14.1	24	16 - 32
All Chemistry Instruments	18	173.2	7.6	4.4	172	121 - 226	18	24.4	3.4	13.9	24	17 - 32
VITROS												
VITROS 250,350,500,700,750,950	32	124.6	7.6	6.1	124	87 - 162	32	20.6	2.3	11.4	20	14 - 27
All Chemistry Instruments	37	124.9	7.8	6.2	125	87 - 163	37	20.8	2.4	11.4	20	14 - 27

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	318	106.8	14.8	13.9	108	74 - 139	320	316.5	58.5	18.5	334	221 - 412
All Alfa Wassermann Reagents	60	110.9	6.0	5.4	113	77 - 145	59	341.1	19.7	5.8	344	238 - 444
All Horiba Pentra Reagents	22	118.0	7.6	6.4	119	82 - 154	22	370.0	15.3	4.1	367	259 - 481
All Roche Integra/c111/c501 Reagents	36	105.1	4.0	3.8	105	73 - 137	36	332.0	11.4	3.4	329	232 - 432
All Vital Diagnostics Reagents	19	113.2	5.3	4.7	113	79 - 148	20	327.7	15.8	4.8	331	229 - 427
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	81	53 - 101	8	-	-	-	230	157 - 294
Abaxis Piccolo	10	75.4	5.7	7.6	75	52 - 99	10	222.8	9.6	4.3	226	155 - 290
All Chemistry Instruments	18	77.0	5.0	6.4	78	53 - 101	18	225.5	10.0	4.4	228	157 - 294
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	36	111.3	5.3	4.8	112	77 - 145	36	343.9	16.9	4.9	345	240 - 448
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	110.2	7.0	6.3	113	77 - 144	23	336.9	23.1	6.9	342	235 - 438
Beckman AU												
Beckman AU systems	30	100.9	6.0	5.9	102	70 - 132	30	305.9	19.4	6.4	309	214 - 398
Carolina Liquid Chemistries												
All Chemistry Instruments	10	87.3	6.4	7.3	87	61 - 114	10	256.1	18.6	7.3	254	179 - 333
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	118.4	7.5	6.3	119	82 - 154	21	371.6	13.7	3.7	368	260 - 484
Roche Integra												
Roche Integra	31	105.0	4.3	4.1	104	73 - 137	31	333.0	11.9	3.6	331	233 - 433
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	60	123.5	8.1	6.6	123	86 - 161	61	371.5	14.8	4.0	372	260 - 483
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	112.3	5.4	4.8	112	78 - 146	15	330.7	12.6	3.8	331	231 - 430
All Chemistry Instruments	18	113.2	5.4	4.8	114	79 - 148	18	330.4	12.5	3.8	332	231 - 430
VITROS												
VITROS 250,350,500,700,750,950	32	89.7	5.9	6.6	89	62 - 117	32	204.9	11.9	5.8	207	143 - 267
All Chemistry Instruments	37	90.4	6.4	7.0	90	63 - 118	37	205.4	12.2	6.0	207	143 - 267

Alkaline Phosphatase (IU/L)

Specimen CH-5						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	320	192.1	31.0	16.1	200	134 - 250
All Alfa Wassermann Reagents	60	204.0	12.6	6.2	206	142 - 266
All Horiba Pentra Reagents	22	220.7	10.4	4.7	217	154 - 287
All Roche Integra/c111/c501 Reagents	36	197.6	6.8	3.4	197	138 - 257
All Vital Diagnostics Reagents	21	199.5	11.1	5.6	201	139 - 260
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	140	96 - 180
Abaxis Piccolo	10	137.8	5.8	4.2	139	96 - 180
All Chemistry Instruments	18	138.2	5.9	4.2	140	96 - 180
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	36	206.1	10.4	5.1	207	144 - 268
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	200.8	15.0	7.5	205	140 - 262
Beckman AU						
Beckman AU systems	30	183.0	12.1	6.6	186	128 - 238
Carolina Liquid Chemistries						
All Chemistry Instruments	10	155.1	11.8	7.6	155	108 - 202
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	221.6	9.7	4.4	218	155 - 289
Roche Integra						
Roche Integra	31	197.8	7.2	3.6	197	138 - 258
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	61	223.5	11.2	5.0	223	156 - 291
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	200.6	8.5	4.2	201	140 - 261
All Chemistry Instruments	18	201.1	8.1	4.0	202	140 - 262
VITROS						
VITROS 250,350,500,700,750,950	32	140.4	8.2	5.9	141	98 - 183
All Chemistry Instruments	37	140.9	8.5	6.0	142	98 - 184

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	336	131.1	18.8	14.3	125	104 - 158	336	16.1	5.4	33.8	15	12 - 20
All Horiba Pentra Reagents	22	128.0	7.0	5.4	130	102 - 154	21	15.0	1.3	8.8	15	12 - 19
All Roche Integra/c111/c501 Reagents	35	124.9	5.9	4.7	125	99 - 150	36	13.5	1.3	9.3	14	10 - 17
All Vital Diagnostics Reagents	20	128.5	9.0	7.0	128	102 - 155	21	15.2	3.3	21.5	15	12 - 19
Abaxis Piccolo												
Abaxis Piccolo - waived	21	122.4	6.0	4.9	124	97 - 147	21	17.1	2.4	14.3	17	13 - 21
Abaxis Piccolo	12	122.4	4.9	4.0	123	97 - 147	12	19.1	2.4	12.7	20	15 - 23
All Chemistry Instruments	33	122.4	5.6	4.6	123	97 - 147	33	17.8	2.6	14.5	18	14 - 22
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	31	115.1	6.2	5.4	117	92 - 139	30	9.2	1.8	19.7	10	7 - 12
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	114.5	4.3	3.8	115	91 - 138	30	9.3	2.0	21.9	10	7 - 12
Beckman AU												
Beckman AU systems	29	111.0	5.5	4.9	111	88 - 134	29	12.7	0.9	7.2	13	10 - 16
Carolina Liquid Chemistries												
All Chemistry Instruments	10	124.9	10.9	8.7	126	99 - 150	10	13.9	2.6	18.4	15	11 - 17
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	127.7	7.0	5.5	130	102 - 154	20	15.1	1.3	8.8	15	12 - 19
Roche Integra												
Roche Integra	30	124.1	5.5	4.5	124	99 - 149	31	13.3	1.2	9.2	13	10 - 16
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	159.5	4.8	3.0	160	127 - 192	59	24.4	2.2	9.0	24	19 - 30
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	129.3	6.0	4.7	128	103 - 156	15	15.3	3.2	20.8	14	12 - 19
All Chemistry Instruments	18	129.4	7.6	5.9	128	103 - 156	18	15.6	3.0	19.4	16	12 - 19
VITROS												
VITROS 250,350,500,700,750,950	32	150.7	5.6	3.7	150	120 - 181	32	20.0	1.1	5.3	20	15 - 24
All Chemistry Instruments	37	151.7	6.1	4.0	150	121 - 183	37	20.1	1.0	5.1	20	16 - 25

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	321	95.9	18.8	19.6	89	76 - 116	321	253.4	31.6	12.5	244	202 - 305
All Horiba Pentra Reagents	21	91.0	5.9	6.5	92	72 - 110	22	250.2	12.9	5.1	254	200 - 301
All Roche Integra/c111/c501 Reagents	35	86.1	4.3	5.0	85	68 - 104	35	243.9	10.4	4.3	243	195 - 293
All Vital Diagnostics Reagents	20	95.4	5.8	6.1	96	76 - 115	20	249.9	12.5	5.0	247	199 - 300
Abaxis Piccolo												
Abaxis Piccolo - waived	8	-	-	-	86	70 - 106	8	-	-	-	228	184 - 277
Abaxis Piccolo	10	89.0	4.2	4.7	90	71 - 107	10	233.3	6.5	2.8	235	186 - 280
All Chemistry Instruments	18	88.0	5.1	5.8	88	70 - 106	18	230.7	9.5	4.1	232	184 - 277
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	31	77.1	5.1	6.6	78	61 - 93	31	228.9	10.3	4.5	231	183 - 275
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	77.7	4.0	5.2	78	62 - 94	29	227.8	7.9	3.5	226	182 - 274
Beckman AU												
Beckman AU systems	29	78.6	3.9	5.0	78	62 - 95	29	215.3	10.1	4.7	216	172 - 259
Carolina Liquid Chemistries												
All Chemistry Instruments	10	88.1	7.4	8.3	90	70 - 106	10	236.1	23.8	10.1	245	188 - 284
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	90.8	6.0	6.6	92	72 - 109	21	249.7	12.9	5.2	253	199 - 300
Roche Integra												
Roche Integra	30	85.4	3.6	4.2	85	68 - 103	30	242.2	9.3	3.8	242	193 - 291
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	59	122.0	4.1	3.4	122	97 - 147	60	295.1	9.1	3.1	295	236 - 355
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	96.5	3.9	4.0	97	77 - 116	15	251.5	10.3	4.1	247	201 - 302
All Chemistry Instruments	18	96.2	5.3	5.5	97	76 - 116	18	250.6	12.7	5.1	247	200 - 301
VITROS												
VITROS 250,350,500,700,750,950	32	120.2	4.4	3.7	120	96 - 145	32	291.7	11.4	3.9	292	233 - 351
All Chemistry Instruments	37	120.6	4.4	3.7	120	96 - 145	37	291.5	11.0	3.8	291	233 - 350

AST (SGOT) (IU/L)

Specimen CH-5						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	321	153.5	22.5	14.6	147	122 - 185
All Horiba Pentra Reagents	22	148.7	8.2	5.5	150	118 - 179
All Roche Integra/c111/c501 Reagents	35	144.5	6.4	4.4	144	115 - 174
All Vital Diagnostics Reagents	20	153.1	8.4	5.5	152	122 - 184
Abaxis Piccolo						
Abaxis Piccolo - waived	8	-	-	-	139	112 - 169
Abaxis Piccolo	10	142.6	7.1	5.0	142	114 - 172
All Chemistry Instruments	18	140.4	8.1	5.8	140	112 - 169
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	31	135.4	6.3	4.7	137	108 - 163
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	134.3	6.1	4.6	134	107 - 162
Beckman AU						
Beckman AU systems	29	128.8	6.3	4.9	129	103 - 155
Carolina Liquid Chemistries						
All Chemistry Instruments	10	147.0	12.5	8.5	150	117 - 177
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	148.3	8.2	5.6	148	118 - 178
Roche Integra						
Roche Integra	30	143.7	5.8	4.0	143	114 - 173
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	60	185.3	6.0	3.3	185	148 - 223
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	153.7	5.8	3.7	153	122 - 185
All Chemistry Instruments	18	153.1	8.7	5.7	152	122 - 184
VITROS						
VITROS 250,350,500,700,750,950	32	179.8	6.7	3.7	180	143 - 216
All Chemistry Instruments	37	180.2	6.6	3.7	180	144 - 217

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	147	89.4	8.8	9.8	89	62 - 117	147	26.6	4.0	15.2	26	18 - 35
All Roche Integra/c111/c501 Reagents	19	101.5	3.6	3.5	102	71 - 132	20	30.4	3.4	11.3	31	21 - 40
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	13	88.1	5.5	6.3	88	61 - 115	13	31.4	4.2	13.4	31	21 - 41
Beckman AU												
Beckman AU systems	18	84.6	5.3	6.3	83	59 - 110	18	24.1	1.8	7.5	24	16 - 32
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	90.2	3.1	3.5	91	63 - 118	10	27.4	1.9	6.9	27	19 - 36
Roche Integra												
Roche Integra	17	101.4	3.7	3.6	102	70 - 132	18	30.3	3.6	11.8	31	21 - 40
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	89.2	3.1	3.5	89	62 - 116	13	25.4	2.5	10.0	26	17 - 33
All Chemistry Instruments	14	89.1	3.0	3.4	89	62 - 116	14	25.3	2.5	9.7	26	17 - 33
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	19	89.4	2.9	3.2	89	62 - 117	19	25.4	2.3	9.0	26	17 - 33
VITROS												
VITROS 250,350,500,700,750,950	13	76.4	9.4	12.3	81	53 - 100	12	20.8	1.2	5.9	20	14 - 27
All Chemistry Instruments	16	76.9	8.7	11.3	81	53 - 101	15	20.8	1.3	6.1	20	14 - 28

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	144	337.6	39.3	11.6	345	236 - 439	144	147.7	12.2	8.2	148	103 - 192
All Roche Integra/c111/c501 Reagents	19	385.0	9.1	2.4	387	269 - 501	19	165.5	7.1	4.3	165	115 - 216
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	13	317.3	8.3	2.6	320	222 - 413	13	142.8	4.3	3.0	143	99 - 186
Beckman AU												
Beckman AU systems	18	333.4	17.7	5.3	333	233 - 434	18	139.6	8.6	6.1	139	97 - 182
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	350.9	10.7	3.1	353	245 - 457	10	148.4	4.8	3.2	150	103 - 193
Roche Integra												
Roche Integra	17	383.8	8.3	2.2	386	268 - 499	17	164.8	7.0	4.3	164	115 - 215
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	13	350.2	10.2	2.9	347	245 - 456	13	148.4	4.9	3.3	148	103 - 193
All Chemistry Instruments	14	349.6	10.0	2.9	347	244 - 455	14	147.9	5.0	3.4	148	103 - 193
Siemens Healthcare CKI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	19	350.5	5.2	1.5	351	245 - 456	19	148.6	5.1	3.4	149	104 - 194
VITROS												
VITROS 250,350,500,700,750,950	13	236.9	29.3	12.4	249	165 - 308	13	134.8	16.9	12.5	143	94 - 176
All Chemistry Instruments	16	239.3	26.8	11.2	250	167 - 312	16	136.3	15.6	11.4	142	95 - 178

Creatine Kinase (IU/L)

Specimen CH-5						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	167.0	15.5	9.3	169	116 - 218
All Roche Integra/c111/c501 Reagents	19	189.2	5.0	2.7	188	132 - 246
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	13	161.8	5.3	3.3	162	113 - 211
Beckman AU						
Beckman AU systems	18	159.4	10.0	6.3	157	111 - 208
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	169.7	6.0	3.5	171	118 - 221
Roche Integra						
Roche Integra	17	188.9	5.1	2.7	188	132 - 246
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	13	169.8	5.2	3.1	169	118 - 221
All Chemistry Instruments	14	169.4	5.4	3.2	169	118 - 221
Siemens Healthcare CKI						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	19	169.8	3.8	2.2	170	118 - 221
VITROS						
VITROS 250,350,500,700,750,950	13	134.2	18.8	14.0	134	93 - 175
All Chemistry Instruments	16	135.6	17.4	12.8	138	94 - 177

GGT (IU/L)

Specimen CH-1							Specimen CH-2					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	81	89.5	20.6	23.0	83	48 - 131	81	23.1	6.1	26.6	21	10 - 36
All Roche Integra/c111/c501 Reagents	11	80.7	3.7	4.6	81	64 - 97	11	19.4	1.6	8.1	19	15 - 24
Beckman AU												
Beckman AU systems	10	75.8	4.9	6.5	76	60 - 91	10	18.0	1.1	5.9	18	14 - 22
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	15	110.8	2.6	2.3	111	88 - 133	15	31.4	1.3	4.1	32	25 - 38
Specimen CH-3							Specimen CH-4					
All Method	78	91.1	20.8	22.8	85	49 - 133	78	154.7	33.1	21.4	145	88 - 221
All Roche Integra/c111/c501 Reagents	11	81.6	3.3	4.1	82	65 - 98	11	141.8	6.9	4.9	143	113 - 171
Beckman AU												
Beckman AU systems	10	77.5	5.0	6.4	76	62 - 93	10	132.7	8.5	6.4	131	106 - 160
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	15	114.4	3.0	2.7	114	91 - 138	15	188.7	4.6	2.4	188	150 - 227
Specimen CH-5												
All Method	77	107.2	24.7	23.0	99	57 - 157						
All Roche Integra/c111/c501 Reagents	11	96.5	5.2	5.4	97	77 - 116						
Beckman AU												
Beckman AU systems	10	90.5	6.1	6.7	89	72 - 109						
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	15	132.3	4.1	3.1	132	105 - 159						

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	73.8	18.2	24.7	79	51 - 96	96	22.9	4.8	20.9	22	16 - 30
All Roche Integra/c111/c501 Reagents	16	77.4	1.9	2.5	78	54 - 101	15	22.7	0.6	2.6	23	15 - 30
Beckman AU												
Beckman AU systems	15	67.1	3.4	5.1	66	46 - 88	15	15.8	1.0	6.4	16	11 - 21
Roche Integra												
Roche Integra	15	77.5	2.0	2.5	78	54 - 101	14	22.7	0.6	2.7	23	15 - 30
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	18	91.1	1.3	1.5	91	63 - 119	19	20.7	1.1	5.1	21	14 - 27
VITROS												
VITROS 250,350,500,700,750,950	12	35.8	3.3	9.2	35	25 - 47	11	30.0	0.0	0.0	30	21 - 39
All Chemistry Instruments	14	34.9	3.7	10.5	34	24 - 46	13	30.0	0.0	0.0	30	21 - 39
<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	71.8	10.3	14.3	74	50 - 94	92	129.8	29.7	22.8	134	90 - 169
All Roche Integra/c111/c501 Reagents	16	78.2	2.1	2.7	78	54 - 102	16	130.4	3.1	2.4	130	91 - 170
Beckman AU												
Beckman AU systems	15	56.5	2.6	4.6	56	39 - 74	15	117.3	5.4	4.6	117	82 - 153
Roche Integra												
Roche Integra	15	78.2	2.1	2.7	78	54 - 102	15	130.5	3.2	2.4	130	91 - 170
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	19	74.1	2.2	3.0	74	51 - 97	19	159.6	3.1	2.0	160	111 - 208
VITROS												
VITROS 250,350,500,700,750,950	12	62.7	5.4	8.6	62	43 - 82	12	70.9	3.8	5.3	71	49 - 93
All Chemistry Instruments	14	61.9	5.7	9.2	62	43 - 81	14	70.0	4.3	6.1	70	49 - 91

Amylase (IU/L)

<u><i>Instrument/Reagent</i></u>	Specimen CH-5					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	92	87.7	18.2	20.8	94	61 - 115
All Roche Integra/c111/c501 Reagents	16	91.3	2.0	2.2	91	63 - 119
Beckman AU						
Beckman AU systems	15	76.7	3.8	4.9	76	53 - 100
Roche Integra						
Roche Integra	15	91.3	2.1	2.3	91	63 - 119
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	19	103.8	3.2	3.1	104	72 - 135
VITROS						
VITROS 250,350,500,700,750,950	12	52.5	3.2	6.2	53	36 - 69
All Chemistry Instruments	14	51.6	3.7	7.1	52	36 - 68

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	381.8	48.0	12.6	408	305 - 459	92	87.4	10.0	11.5	89	69 - 105
All Alfa Wassermann Reagents	14	305.8	14.6	4.8	310	244 - 367	14	74.8	5.4	7.2	75	59 - 90
All Roche Integra/c111/c501 Reagents	18	425.5	11.5	2.7	424	340 - 511	18	97.6	4.3	4.4	97	78 - 118
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	14	305.8	14.6	4.8	310	244 - 367	14	74.8	5.4	7.2	75	59 - 90
Beckman AU												
Beckman AU systems	10	358.5	15.2	4.2	363	286 - 431	10	79.7	4.4	5.6	81	63 - 96
Roche Integra												
Roche Integra	15	427.7	11.3	2.6	424	342 - 514	15	98.7	3.8	3.9	97	78 - 119
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	415.3	12.4	3.0	412	332 - 499	11	89.9	5.8	6.5	88	71 - 108
VITROS												
All Chemistry Instruments	10	1453.8	33.1	2.3	1445	1163 - 1745	10	323.5	11.4	3.5	325	258 - 389
<u>Instrument/Reagent</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	218.6	26.2	12.0	232	174 - 263	92	662.2	85.5	12.9	709	529 - 795
All Alfa Wassermann Reagents	14	176.9	7.2	4.1	179	141 - 213	14	530.5	19.2	3.6	529	424 - 637
All Roche Integra/c111/c501 Reagents	18	241.3	7.8	3.3	239	193 - 290	17	731.6	22.5	3.1	728	585 - 878
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	14	176.9	7.2	4.1	179	141 - 213	14	530.5	19.2	3.6	529	424 - 637
Beckman AU												
Beckman AU systems	10	201.2	8.8	4.4	202	160 - 242	10	623.7	25.6	4.1	636	498 - 749
Roche Integra												
Roche Integra	15	242.1	8.4	3.5	239	193 - 291	15	742.1	34.8	4.7	738	593 - 891
Siemens Healthcare LDI												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	11	236.4	7.4	3.1	233	189 - 284	11	730.5	18.2	2.5	730	584 - 877
VITROS												
All Chemistry Instruments	10	784.1	30.7	3.9	778	627 - 941	10	2513.8	374.9	14.9	2560	2011 - 3017

Lactate Dehydrogenase (IU/L)

Specimen CH-5

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	414.5	51.4	12.4	444	331 - 498
All Alfa Wassermann Reagents	14	332.2	13.2	4.0	335	265 - 399
All Roche Integra/c111/c501 Reagents	18	458.6	13.4	2.9	458	366 - 551
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	14	332.2	13.2	4.0	335	265 - 399
Beckman AU						
Beckman AU systems	10	388.3	17.5	4.5	398	310 - 466
Roche Integra						
Roche Integra	15	461.3	13.1	2.8	462	369 - 554
Siemens Healthcare LDI						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	449.4	11.0	2.5	450	359 - 540
VITROS						
All Chemistry Instruments	10	1554.3	33.0	2.1	1542	1243 - 1866

Lipase (IU/L)

Specimen CH-1

Specimen CH-2

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	22.9	3.1	13.6	24	16 - 30	36	11.8	2.6	22.2	14	8 - 16
All Roche Integra/c111/c501 Reagents	12	22.6	1.1	4.8	23	15 - 30	12	11.7	0.7	5.6	12	8 - 16
Roche Integra												
Roche Integra	11	22.5	1.1	5.0	23	15 - 30	11	11.6	0.7	5.8	12	8 - 16
Siemens Healthcare												
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	87.8	7.8	8.8	88	61 - 115	11	49.1	6.1	12.5	49	34 - 64
VITROS												
All Chemistry Instruments	11	279.3	12.9	4.6	283	195 - 364	11	83.9	4.3	5.2	85	58 - 110

Lipase (IU/L)

Specimen CH-3

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	102.8	16.6	16.1	115	71 - 134
All Roche Integra/c111/c501 Reagents	12	101.3	5.4	5.3	102	70 - 132
Roche Integra						
Roche Integra	11	102.2	4.6	4.5	102	71 - 133
Siemens Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	370.9	21.9	5.9	374	259 - 483
VITROS						
All Chemistry Instruments	11	1567.4	35.3	2.3	1574	1097 - 2038

Specimen CH-4

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
36	33.0	3.9	12.0	35	23 - 43
12	32.9	1.8	5.6	34	23 - 43
11	33.1	1.8	5.5	34	23 - 44
11	124.6	9.2	7.4	126	87 - 163
11	449.5	19.5	4.3	446	314 - 585

Specimen CH-5

All Method	36	46.8	5.0	10.7	50	32 - 61
All Roche Integra/c111/c501 Reagents	12	45.8	2.3	5.0	46	32 - 60
Roche Integra						
Roche Integra	11	46.2	2.0	4.4	46	32 - 61
Siemens Healthcare						
Siemens Dimension/AR/ES/RxL/Xpand/EXL	11	171.5	11.2	6.5	173	120 - 224
VITROS						
All Chemistry Instruments	11	659.3	20.5	3.1	662	461 - 858

Alpha-fetoprotein (AFP) (ng/mL)

Specimen CH-1

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	71.86	1.72	2.4	71.4	66.7 - 77.1

Specimen CH-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
5	0.94	0.13	14.3	1.0	0.5 - 1.4

Specimen CH-3

All Method	5	320.88	13.54	4.2	318.5	280.2 - 361.5
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Specimen CH-4

5	140.20	7.38	5.3	138.2	118.0 - 162.4
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Specimen CH-5

All Method	5	152.58	8.09	5.3	150.9	128.3 - 176.9
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Cortisol (mcg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	9.68	0.82	8.5	9.2	7.2 - 12.1	16	5.24	0.59	11.3	5.2	3.9 - 6.6
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	40.51	6.21	15.3	38.6	30.3 - 50.7	16	14.68	1.40	9.5	14.5	11.0 - 18.4
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	18.33	1.96	10.7	18.1	13.7 - 23.0						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	48.64	5.52	11.4	46.8	32.0 - 65.3	30	51.11	6.66	13.0	49.0	31.1 - 71.1
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	48.50	3.47	7.2	47.0	38.0 - 59.0	29	46.28	3.67	7.9	45.0	35.2 - 57.3
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	29	47.88	3.91	8.2	46.2	36.1 - 59.6						

T Uptake (uptake units)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	0.72	Not graded	2	-	-	-	0.80	Not graded
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	0.23	Not graded	2	-	-	-	0.65	Not graded
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	0.54	Not graded						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	40	0.89	0.21	23.8	0.9	0.2 - 1.6	40	0.71	0.17	24.5	0.8	0.1 - 1.3
All TOSOH Instruments	10	2.92	0.22	7.5	2.9	2.2 - 3.6	10	2.35	0.22	9.5	2.3	1.6 - 3.1
Beckman ACCESS / 2 / Dxl	15	0.95	0.12	13.2	0.9	0.5 - 1.4	15	0.75	0.09	12.3	0.7	0.4 - 1.1
<u>Method</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	41	2.68	0.80	30.0	3.0	0.2 - 5.1	40	1.08	0.31	28.6	1.2	0.1 - 2.0
All TOSOH Instruments	10	6.50	0.43	6.6	6.4	5.2 - 7.8	10	3.28	0.29	9.0	3.2	2.3 - 4.2
Beckman ACCESS / 2 / Dxl	15	3.07	0.29	9.4	3.0	2.2 - 4.0	14	1.10	0.11	10.1	1.1	0.7 - 1.5
<u>Method</u>	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	40	1.45	0.33	22.8	1.5	0.4 - 2.5						
All TOSOH Instruments	10	4.01	0.43	10.7	3.9	2.7 - 5.3						
Beckman ACCESS / 2 / Dxl	15	1.53	0.19	12.2	1.5	0.9 - 2.1						

Free T₃ (pg/mL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	2.78	0.43	15.6	3.0	1.4 - 4.1	33	2.26	0.41	18.1	2.4	1.0 - 3.5
All TOSOH Instruments	10	4.67	0.16	3.4	4.6	4.1 - 5.2	10	3.52	0.12	3.5	3.6	3.1 - 3.9
Beckman ACCESS / 2 / Dxl	16	2.88	0.20	6.9	2.9	2.2 - 3.5	16	2.29	0.17	7.4	2.3	1.7 - 2.9
Specimen CH-3							Specimen CH-4					
All Method	32	7.13	1.09	15.3	7.1	3.8 - 10.4	33	3.15	0.47	14.8	3.3	1.7 - 4.6
All TOSOH Instruments	10	15.88	1.00	6.3	16.3	12.8 - 18.9	10	5.50	0.12	2.1	5.5	5.1 - 5.9
Beckman ACCESS / 2 / Dxl	16	6.73	0.34	5.0	6.8	5.7 - 7.8	16	3.28	0.16	4.8	3.3	2.8 - 3.8
Specimen CH-5												
All Method	32	4.12	0.53	12.8	4.3	2.5 - 5.7						
All TOSOH Instruments	10	7.98	0.26	3.2	7.9	7.2 - 8.8						
Beckman ACCESS / 2 / Dxl	16	4.16	0.20	4.7	4.2	3.5 - 4.8						

Thyroxine (mcg/dL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	5.61	0.83	14.8	5.7	4.4 - 6.8	52	3.40	0.58	17.1	3.4	2.4 - 4.5
All TOSOH Instruments	13	5.63	0.41	7.3	5.8	4.5 - 6.8	13	3.31	0.20	6.0	3.3	2.3 - 4.4
Beckman ACCESS / 2 / Dxl	10	6.62	0.50	7.6	6.5	5.2 - 8.0	10	3.84	0.37	9.7	4.0	2.8 - 4.9
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	5.31	0.52	9.8	5.3	4.2 - 6.4	14	3.38	0.44	13.0	3.3	2.3 - 4.4
TOSOH ST AIA	10	5.58	0.45	8.1	5.8	4.4 - 6.7	10	3.29	0.20	6.2	3.4	2.2 - 4.3
Specimen CH-3							Specimen CH-4					
All Method	51	16.32	1.68	10.3	16.7	13.0 - 19.6	53	7.49	1.03	13.8	7.3	5.9 - 9.0
All TOSOH Instruments	13	17.21	1.47	8.6	17.1	13.7 - 20.7	13	7.68	0.70	9.1	7.8	6.1 - 9.3
Beckman ACCESS / 2 / Dxl	10	17.44	0.54	3.1	17.4	13.9 - 21.0	10	8.54	0.36	4.2	8.6	6.8 - 10.3
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	16.46	0.72	4.3	16.3	13.1 - 19.8	14	7.06	0.57	8.0	7.0	5.6 - 8.5
TOSOH ST AIA	10	17.15	1.57	9.1	17.2	13.7 - 20.6	10	7.65	0.77	10.1	7.8	6.1 - 9.2
Specimen CH-5												
All Method	51	8.84	1.04	11.8	8.6	7.0 - 10.7						
All TOSOH Instruments	13	9.02	0.57	6.3	9.1	7.2 - 10.9						
Beckman ACCESS / 2 / Dxl	10	10.41	0.42	4.1	10.4	8.3 - 12.5						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	14	8.54	0.62	7.2	8.3	6.8 - 10.3						
TOSOH ST AIA	10	8.93	0.59	6.6	9.0	7.1 - 10.8						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	213	1.95	0.54	27.8	1.9	0.3 - 3.6	213	1.26	0.37	29.2	1.3	0.1 - 2.4
All DPC Immulite Instruments	14	2.23	0.14	6.4	2.3	1.7 - 2.7	14	1.61	0.09	5.9	1.6	1.3 - 1.9
All Roche Elecsys/Cobas Instruments	12	2.08	0.06	2.8	2.1	1.9 - 2.3	12	1.42	0.04	2.7	1.4	1.2 - 1.6
All TOSOH Instruments	44	2.50	0.23	9.0	2.5	1.8 - 3.2	44	1.59	0.14	9.0	1.6	1.1 - 2.1
Abbott Architect	17	1.81	0.09	4.7	1.8	1.5 - 2.1	17	1.07	0.06	5.5	1.1	0.8 - 1.3
Beckman ACCESS / 2 / Dxl	49	1.71	0.08	4.8	1.7	1.4 - 2.0	49	1.24	0.08	6.1	1.2	1.0 - 1.5
bioMerieux Vidas, Mini Vidas	31	1.13	0.10	8.9	1.1	0.8 - 1.5	32	0.70	0.08	10.9	0.7	0.4 - 1.0
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	2.29	0.26	11.2	2.3	1.5 - 3.1	31	1.36	0.13	9.7	1.4	0.9 - 1.8
TOSOH AIA	17	2.40	0.20	8.3	2.4	1.8 - 3.0	17	1.56	0.14	9.0	1.6	1.1 - 2.0
TOSOH ST AIA	27	2.56	0.22	8.7	2.5	1.8 - 3.3	27	1.60	0.15	9.1	1.6	1.1 - 2.1
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	4.70	1.26	26.8	5.0	0.9 - 8.5	214	2.50	0.67	26.7	2.6	0.4 - 4.5
All DPC Immulite Instruments	14	4.61	0.38	8.2	4.6	3.4 - 5.8	14	2.84	0.23	8.1	2.8	2.1 - 3.6
All Roche Elecsys/Cobas Instruments	12	5.39	0.26	4.9	5.4	4.5 - 6.2	12	2.67	0.07	2.4	2.7	2.4 - 2.9
All TOSOH Instruments	44	6.14	0.38	6.2	6.2	4.9 - 7.3	44	3.15	0.25	8.0	3.2	2.3 - 4.0
Abbott Architect	17	5.73	0.29	5.1	5.8	4.8 - 6.7	17	2.64	0.18	7.0	2.6	2.0 - 3.2
Beckman ACCESS / 2 / Dxl	49	3.49	0.21	6.0	3.5	2.8 - 4.2	48	2.10	0.11	5.5	2.1	1.7 - 2.5
bioMerieux Vidas, Mini Vidas	32	3.24	0.23	7.2	3.3	2.5 - 4.0	32	1.53	0.11	7.1	1.5	1.2 - 1.9
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	31	5.42	0.58	10.7	5.4	3.6 - 7.2	31	2.99	0.31	10.3	2.9	2.0 - 4.0
TOSOH AIA	17	6.02	0.35	5.9	6.0	4.9 - 7.1	17	3.08	0.21	6.9	3.1	2.4 - 3.8
TOSOH ST AIA	26	6.25	0.31	5.0	6.2	5.3 - 7.2	27	3.20	0.27	8.4	3.2	2.3 - 4.1

Free Thyroxine (ng/dL)

Specimen CH-5

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	214	2.92	0.76	25.9	3.0	0.6 - 5.2
All DPC Immulite Instruments	14	3.09	0.27	8.8	3.1	2.2 - 4.0
All Roche Elecsys/Cobas Instruments	12	3.09	0.10	3.2	3.1	2.7 - 3.4
All TOSOH Instruments	44	3.73	0.29	7.8	3.8	2.8 - 4.7
Abbott Architect	17	3.16	0.25	8.1	3.2	2.4 - 4.0
Beckman ACCESS / 2 / Dxl	48	2.44	0.10	4.2	2.4	2.1 - 2.8
bioMerieux Vidas, Mini Vidas	32	1.88	0.16	8.5	1.9	1.3 - 2.4
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	31	3.46	0.35	10.1	3.5	2.4 - 4.6
TOSOH AIA	17	3.65	0.23	6.3	3.7	2.9 - 4.4
TOSOH ST AIA	27	3.78	0.32	8.4	3.8	2.8 - 4.8

TSH (μU/mL)

Specimen CH-1

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	285	1.71	0.21	12.1	1.7	1.0 - 2.4
All Abbott Instruments	20	1.57	0.09	5.5	1.6	1.3 - 1.9
All DPC Immulite Instruments	14	1.56	0.19	12.0	1.6	0.9 - 2.2
All Roche Elecsys/Cobas Instruments	15	1.83	0.05	2.5	1.8	1.6 - 2.0
All TOSOH Instruments	60	1.89	0.14	7.6	1.9	1.4 - 2.4
Abbott Architect	20	1.57	0.09	5.5	1.6	1.3 - 1.9
Beckman ACCESS / 2 / Dxl	56	1.50	0.08	5.1	1.5	1.2 - 1.8
bioMerieux Vidas, Mini Vidas	52	1.81	0.10	5.3	1.8	1.5 - 2.1
Roche Elecsys 1010/2010	10	1.83	0.05	2.6	1.8	1.6 - 2.0
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	46	1.58	0.12	7.7	1.6	1.2 - 2.0
TOSOH AIA	24	1.83	0.10	5.5	1.8	1.5 - 2.2
TOSOH ST AIA	36	1.93	0.16	8.1	1.9	1.4 - 2.5

Specimen CH-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
277	0.32	0.05	16.8	0.3	0.1 - 0.5
20	0.28	0.04	16.2	0.3	0.1 - 0.5
14	0.31	0.04	11.6	0.3	0.2 - 0.5
15	0.40	0.00	0.0	0.4	0.4 - 0.4
62	0.38	0.04	11.5	0.4	0.2 - 0.6
20	0.28	0.04	16.2	0.3	0.1 - 0.5
56	0.30	0.00	0.0	0.3	0.3 - 0.3
54	0.31	0.04	13.0	0.3	0.1 - 0.5
10	0.40	0.00	0.0	0.4	0.4 - 0.4
46	0.30	0.05	15.9	0.3	0.1 - 0.5
25	0.37	0.05	12.9	0.4	0.2 - 0.6
37	0.39	0.04	10.1	0.4	0.2 - 0.6

TSH (μU/mL)

Specimen CH-3							Specimen CH-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	286	11.12	1.47	13.2	11.3	6.7 - 15.6	286	2.95	0.32	10.8	2.9	1.9 - 4.0
All Abbott Instruments	20	10.63	0.71	6.7	10.7	8.4 - 12.8	20	2.76	0.11	3.8	2.7	2.4 - 3.1
All DPC Immulite Instruments	14	10.94	1.10	10.0	11.2	7.6 - 14.3	14	2.91	0.17	5.8	2.9	2.4 - 3.5
All Roche Elecsys/Cobas Instruments	15	10.97	0.44	4.0	10.9	9.6 - 12.3	15	3.03	0.10	3.2	3.0	2.7 - 3.4
All TOSOH Instruments	61	12.29	0.92	7.5	12.2	9.5 - 15.1	60	3.26	0.23	7.2	3.2	2.5 - 4.0
Abbott Architect	20	10.63	0.71	6.7	10.7	8.4 - 12.8	20	2.76	0.11	3.8	2.7	2.4 - 3.1
Beckman ACCESS / 2 / Dxl	57	8.97	0.71	7.9	8.9	6.8 - 11.1	56	2.61	0.13	5.1	2.6	2.2 - 3.1
bioMerieux Vidas, Mini Vidas	53	12.15	0.60	5.0	12.2	10.3 - 14.0	54	3.13	0.17	5.4	3.1	2.6 - 3.7
Roche Elecsys 1010/2010	10	11.00	0.47	4.3	10.9	9.5 - 12.5	10	3.03	0.11	3.5	3.0	2.7 - 3.4
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	46	11.14	0.80	7.2	11.1	8.7 - 13.6	46	2.75	0.20	7.1	2.8	2.1 - 3.4
TOSOH AIA	25	12.18	0.83	6.8	12.1	9.6 - 14.7	25	3.21	0.26	8.1	3.2	2.4 - 4.0
TOSOH ST AIA	37	12.28	1.13	9.2	12.4	8.8 - 15.7	35	3.29	0.21	6.5	3.2	2.6 - 4.0
Specimen CH-5												
All Method	287	4.60	0.54	11.7	4.6	2.9 - 6.3						
All Abbott Instruments	20	4.27	0.22	5.0	4.2	3.6 - 5.0						
All DPC Immulite Instruments	14	4.43	0.27	6.1	4.4	3.6 - 5.3						
All Roche Elecsys/Cobas Instruments	15	4.71	0.14	3.0	4.7	4.2 - 5.2						
All TOSOH Instruments	61	5.02	0.42	8.5	5.0	3.7 - 6.3						
Abbott Architect	20	4.27	0.22	5.0	4.2	3.6 - 5.0						
Beckman ACCESS / 2 / Dxl	55	4.03	0.22	5.5	4.0	3.3 - 4.7						
bioMerieux Vidas, Mini Vidas	52	4.95	0.21	4.3	4.9	4.3 - 5.6						
Roche Elecsys 1010/2010	10	4.71	0.15	3.2	4.7	4.2 - 5.2						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	46	4.30	0.33	7.6	4.3	3.3 - 5.3						
TOSOH AIA	25	4.92	0.36	7.4	5.0	3.8 - 6.1						
TOSOH ST AIA	36	5.09	0.46	9.0	5.1	3.7 - 6.5						

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-1		Specimen HCG-2	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	144	-	-	144
Beckman Coulter ICON 25 hCG	7	-	-	7
Cardinal Health SP Brand combo	9	-	-	9
CONSULT diagnostics hCG Combo	14	-	-	14
Henry Schein One Step + Combo	6	-	-	6
Immunostics Detector Combi	1	-	-	1
Inverness Clearview hCG Combo II	5	-	-	5
LifeSign Status hCG	1	-	-	1
McKesson hCG Combo Cassette	6	-	-	6
NDC Pro Advantage	2	-	-	2
Polymedco Poly stat hCG	2	-	-	2
PSS Select hCG Combo	2	-	-	2
Quidel QuickVue + One-Step	11	-	-	11
Quidel QuickVue One-Step Combo	63	-	-	63
Sekisui OSOM hCG Combo Test	5	-	-	5
Stanbio QUPID Plus	3	-	-	3
Sure-Vue hCG - 25mIU	1	-	-	1
Sure-Vue hCG-STAT (10mIU)	1	-	-	1

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-3		Specimen HCG-4	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	144	-	144	-
Beckman Coulter ICON 25 hCG	7	-	7	-
Cardinal Health SP Brand combo	9	-	9	-
CONSULT diagnostics hCG Combo	14	-	14	-
Henry Schein One Step + Combo	6	-	6	-
Immunostics Detector Combi	1	-	1	-
Inverness Clearview hCG Combo II	5	-	5	-
LifeSign Status hCG	1	-	1	-
McKesson hCG Combo Cassette	6	-	6	-
NDC Pro Advantage	2	-	2	-
Polymedco Poly stat hCG	2	-	2	-
PSS Select hCG Combo	2	-	2	-
Quidel QuickVue + One-Step	11	-	11	-
Quidel QuickVue One-Step Combo	63	-	63	-
Sekisui OSOM hCG Combo Test	5	-	5	-
Stanbio QUPID Plus	3	-	3	-
Sure-Vue hCG - 25mIU	1	-	1	-
Sure-Vue hCG-STAT (10mIU)	1	-	1	-

Serum hCG – Qualitative

Specimen HCG-5

<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	14	-
Henry Schein One Step + Combo	6	-
Immunostics Detector Combi	1	-
Inverness Clearview hCG Combo II	5	-
LifeSign Status hCG	1	-
McKesson hCG Combo Cassette	6	-
NDC Pro Advantage	2	-
Polymedco Poly stat hCG	2	-
PSS Select hCG Combo	2	-
Quidel QuickVue + One-Step	11	-
Quidel QuickVue One-Step Combo	63	-
Sekisui OSOM hCG Combo Test	5	-
Stanbio QUPID Plus	3	-
Sure-Vue hCG - 25mIU	1	-
Sure-Vue hCG-STAT (10mIU)	1	-

Serum hCG – Quantitative (mIU/mL)

Specimen HCG-1							Specimen HCG-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	190.3	55.5	29.2	201	23 - 357	24	1.1	0.7	66.2	1	0 - 4
Specimen HCG-3							Specimen HCG-4					
All Method	24	373.5	115.0	30.8	402	28 - 719	24	1002.0	312.5	31.2	1092	64 - 1940
Specimen HCG-5												
All Method	24	1.1	0.8	70.9	1	0 - 4						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	337	148.1	6.3	4.2	148	133 - 163	329	111.9	5.5	4.9	112	100 - 124
All Alfa Wassermann Reagents	51	148.7	3.3	2.2	149	133 - 164	49	113.2	2.6	2.3	113	101 - 125
All Horiba Pentra Reagents	17	152.5	4.0	2.6	152	137 - 168	18	115.3	3.3	2.9	115	103 - 127
All Roche Integra/c111/c501 Reagents	34	148.3	4.1	2.8	149	133 - 164	34	112.1	2.8	2.5	112	100 - 124
All Vital Diagnostics Reagents	20	149.0	7.7	5.2	151	134 - 164	20	113.2	7.0	6.1	113	101 - 125
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	46	148.7	3.3	2.3	149	133 - 164	44	113.0	2.4	2.1	113	101 - 125
Beckman AU												
Beckman AU systems	26	145.6	4.8	3.3	146	131 - 161	26	110.5	3.8	3.5	112	99 - 122
Cholestech LDX												
Cholestech LDX - waived	41	153.4	6.7	4.4	153	138 - 169	41	116.4	5.8	5.0	117	104 - 129
All Chemistry Instruments	48	152.5	7.6	5.0	153	137 - 168	48	115.6	5.9	5.1	115	104 - 128
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	152.5	4.0	2.6	152	137 - 168	17	115.4	3.4	3.0	114	103 - 127
Pointe Scientific												
All Chemistry Instruments	10	152.1	2.0	1.3	152	136 - 168	10	116.9	2.8	2.4	118	105 - 129
Roche Integra												
Roche Integra	28	147.1	3.4	2.3	147	132 - 162	28	111.4	2.3	2.0	111	100 - 123
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	52	143.0	4.4	3.1	143	128 - 158	52	109.8	3.7	3.3	110	98 - 121
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	151.6	3.2	2.1	151	136 - 167	14	114.9	4.3	3.7	114	103 - 127
All Chemistry Instruments	17	151.2	4.9	3.2	151	136 - 167	17	114.7	6.3	5.5	114	103 - 127
VITROS												
VITROS 250,350,500,700,750,950	26	141.1	5.3	3.8	141	126 - 156	25	102.2	2.8	2.8	102	92 - 113
All Chemistry Instruments	33	141.7	5.4	3.8	141	127 - 156	31	102.2	3.0	2.9	102	91 - 113

Cholesterol, Total (mg/dL)

Specimen CH-3							Specimen CH-4					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	291	235.8	9.2	3.9	235	212 - 260	293	183.7	7.4	4.0	184	165 - 203
All Alfa Wassermann Reagents	51	233.7	5.0	2.2	233	210 - 258	50	182.8	4.4	2.4	183	164 - 202
All Horiba Pentra Reagents	18	242.1	8.1	3.3	242	217 - 267	18	190.4	5.4	2.8	190	171 - 210
All Roche Integra/c111/c501 Reagents	34	233.9	7.1	3.0	234	210 - 258	34	183.8	6.1	3.3	183	165 - 203
All Vital Diagnostics Reagents	20	244.1	9.0	3.7	245	219 - 269	19	188.4	5.6	3.0	188	169 - 208
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	46	233.4	4.7	2.0	233	210 - 257	45	182.8	4.4	2.4	183	164 - 202
Beckman AU												
Beckman AU systems	26	231.8	7.7	3.3	233	208 - 255	26	180.7	6.5	3.6	183	162 - 199
Cholestech LDX												
Cholestech LDX - waived	14	251.6	9.1	3.6	249	226 - 277	14	192.1	8.2	4.3	192	172 - 212
All Chemistry Instruments	16	250.8	9.0	3.6	249	225 - 276	16	190.2	9.4	4.9	189	171 - 210
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	242.2	8.3	3.4	242	217 - 267	17	190.5	5.5	2.9	190	171 - 210
Pointe Scientific												
All Chemistry Instruments	10	239.6	5.9	2.5	240	215 - 264	10	186.7	7.8	4.2	189	168 - 206
Roche Integra												
Roche Integra	28	232.1	6.3	2.7	233	208 - 256	28	182.3	5.1	2.8	183	164 - 201
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	52	227.2	8.6	3.8	229	204 - 250	52	175.4	6.1	3.5	176	157 - 193
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	244.9	5.3	2.2	245	220 - 270	14	189.4	4.0	2.1	188	170 - 209
All Chemistry Instruments	17	244.7	6.2	2.5	245	220 - 270	17	189.5	4.6	2.4	188	170 - 209
VITROS												
VITROS 250,350,500,700,750,950	26	236.9	9.0	3.8	236	213 - 261	26	185.8	6.3	3.4	185	167 - 205
All Chemistry Instruments	32	238.2	8.9	3.7	239	214 - 263	32	186.1	6.1	3.3	185	167 - 205

Cholesterol, Total (mg/dL)**Specimen CH-5**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	294	179.1	7.0	3.9	179	161 - 198
All Alfa Wassermann Reagents	50	179.0	4.3	2.4	179	161 - 197
All Horiba Pentra Reagents	18	184.9	5.6	3.0	184	166 - 204
All Roche Integra/c111/c501 Reagents	34	179.4	5.7	3.2	180	161 - 198
All Vital Diagnostics Reagents	19	184.8	4.0	2.2	185	166 - 204
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	45	179.0	4.3	2.4	179	161 - 197
Beckman AU						
Beckman AU systems	26	176.7	6.1	3.4	178	159 - 195
Cholestech LDX						
Cholestech LDX - waived	14	184.9	6.7	3.6	185	166 - 204
All Chemistry Instruments	15	184.5	6.6	3.6	185	166 - 203
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	185.1	5.8	3.1	184	166 - 204
Pointe Scientific						
All Chemistry Instruments	10	181.0	3.2	1.8	181	162 - 200
Roche Integra						
Roche Integra	28	178.3	5.4	3.0	178	160 - 197
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	51	171.1	5.5	3.2	171	153 - 189
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	184.8	2.9	1.6	185	166 - 204
All Chemistry Instruments	17	184.6	4.2	2.3	185	166 - 204
VITROS						
VITROS 250,350,500,700,750,950	26	178.1	7.4	4.1	178	160 - 196
All Chemistry Instruments	32	178.6	6.9	3.8	178	160 - 197

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	229	46.9	11.8	25.1	47	32 - 61	228	34.8	9.1	26.1	35	24 - 46
Calculated-Trig/5												
Alfa Wassermann ACE Alera/Axcel	35	57.0	5.6	9.9	58	39 - 75	35	41.3	5.3	12.8	42	28 - 54
Beckman AU systems	16	45.3	5.0	11.1	45	31 - 59	16	35.6	3.5	9.8	36	24 - 47
Cholestech LDX - waived	30	50.4	10.0	19.9	52	35 - 66	29	34.0	7.8	23.0	35	23 - 45
Roche Integra	17	37.2	4.8	12.9	36	26 - 49	17	26.0	4.0	15.4	26	18 - 34
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	42.5	4.2	9.8	42	29 - 56	25	34.2	3.6	10.5	34	23 - 45
Vital Diagnostics Envoy 500	11	50.2	12.5	24.9	51	35 - 66	11	34.2	7.3	21.5	36	23 - 45
VITROS 250,350,500,700,750,950	22	31.6	5.2	16.6	32	22 - 42	22	24.5	3.2	13.2	25	17 - 32
All Chemistry Instruments	217	46.7	11.8	25.3	47	32 - 61	216	34.6	9.1	26.1	35	24 - 46
Specimen CH-3							Specimen CH-4					
All Method	182	93.5	14.1	15.1	95	65 - 122	187	59.1	14.5	24.5	59	41 - 77
Calculated-Trig/5												
Alfa Wassermann ACE/NexCT/Alera	35	96.1	7.0	7.3	97	67 - 125	34	72.9	6.4	8.8	72	51 - 95
Beckman AU systems	17	82.5	13.8	16.7	83	57 - 108	17	58.1	10.8	18.6	57	40 - 76
Cholestech LDX - waived	1	-	-	-	98	65 - 122	5	-	-	-	75	41 - 77
Roche Integra	17	99.3	8.0	8.0	100	69 - 130	17	49.8	5.9	11.9	51	34 - 65
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	25	107.4	8.0	7.5	107	75 - 140	25	51.5	5.6	10.9	52	36 - 67
Vital Diagnostics Envoy 500	11	87.6	15.5	17.7	88	61 - 114	11	57.5	14.9	25.8	58	40 - 75
VITROS 250,350,500,700,750,950	22	75.2	9.4	12.5	78	52 - 98	21	40.0	6.8	17.0	40	28 - 52
All Chemistry Instruments	174	93.2	14.1	15.1	95	65 - 122	179	58.8	14.4	24.5	57	41 - 77

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-5						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	191	60.6	11.9	19.6	60	42 - 79
Calculated-Trig/5						
Alfa Wassermann ACE/NexCT/Alera	35	70.5	7.5	10.6	71	49 - 92
Beckman AU systems	17	59.2	9.8	16.5	59	41 - 77
Cholestech LDX - waived	3	-	-	-	62	42 - 79
Roche Integra	17	55.1	6.3	11.5	55	38 - 72
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	25	58.1	5.8	10.0	57	40 - 76
Vital Diagnostics Envoy 500	11	57.0	11.3	19.8	59	39 - 75
VITROS 250,350,500,700,750,950	22	45.9	7.2	15.7	46	32 - 60
All Chemistry Instruments	181	60.3	11.9	19.7	59	42 - 79

LDL Cholesterol - Direct (mg/dL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	38.3	8.5	22.3	38	26 - 50	103	27.8	5.8	21.0	28	19 - 37
Roche LDL Direct												
Roche Integra	10	51.6	3.2	6.3	52	36 - 68	10	36.5	2.4	6.6	37	25 - 48
All Chemistry Instruments	13	52.4	3.2	6.1	53	36 - 69	13	37.1	2.4	6.5	37	25 - 49
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	39.2	3.3	8.5	39	27 - 51	27	29.1	2.3	8.0	29	20 - 38

LDL Cholesterol - Direct (mg/dL)

Specimen CH-3							Specimen CH-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	99	89.1	11.8	13.2	89	62 - 116	100	48.4	10.5	21.8	47	33 - 63
Roche LDL Direct												
Roche Integra	10	105.1	4.9	4.6	105	73 - 137	10	67.5	3.8	5.7	68	47 - 88
All Chemistry Instruments	13	107.3	6.1	5.7	106	75 - 140	13	68.7	4.0	5.9	68	48 - 90
Siemens Automated LDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	27	91.2	4.4	4.8	92	63 - 119	27	48.9	3.6	7.4	48	34 - 64
Specimen CH-5												
All Method	101	53.9	9.9	18.3	53	37 - 71						
Roche LDL Direct												
Roche Integra	10	70.0	4.2	6.0	70	49 - 91						
All Chemistry Instruments	13	71.2	4.3	6.1	71	49 - 93						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL												
Siemens Automated LDL	27	54.8	3.6	6.6	55	38 - 72						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	320	80.0	8.9	11.1	81	55 - 104	317	58.6	7.1	12.2	59	41 - 77
All Dex-Sulfate 50,000 MW Methods	70	81.9	8.4	10.3	82	57 - 107	68	61.5	6.8	11.0	62	43 - 80
All Direct Methods	176	78.1	9.1	11.7	79	54 - 102	177	57.1	7.8	13.7	56	39 - 75
All Phosphotungstic Acid Methods	19	81.8	4.6	5.6	82	57 - 107	20	60.7	3.2	5.2	61	42 - 79
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	17	69.9	3.9	5.6	69	48 - 91	17	51.5	3.5	6.7	51	36 - 67
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	19	70.9	3.2	4.5	71	49 - 93	19	52.8	1.9	3.5	53	36 - 69
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	14	72.1	4.0	5.5	72	55 - 104	14	53.4	2.6	4.9	54	41 - 77
Beckman AU Direct HDL / LDL												
Beckman AU systems	17	78.1	3.8	4.9	77	54 - 102	18	55.1	5.1	9.2	55	38 - 72
Cholestech LDX												
Cholestech LDX - waived	38	82.9	7.8	9.4	83	58 - 108	36	63.6	5.7	9.0	63	44 - 83
All Chemistry Instruments	45	83.8	7.7	9.2	85	58 - 109	43	64.3	5.6	8.7	65	44 - 84
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	72.1	5.2	7.2	72	50 - 94	14	52.7	4.2	8.0	52	36 - 69
Roche HDL Direct												
Roche Integra	16	89.1	4.3	4.8	89	62 - 116	17	66.9	3.2	4.8	67	46 - 87
All Chemistry Instruments	20	88.8	4.0	4.5	89	62 - 116	21	66.5	3.1	4.6	67	46 - 87
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	41	81.4	2.5	3.1	81	56 - 106	40	59.5	1.7	2.8	59	41 - 78
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	20	86.2	3.9	4.5	86	60 - 112	20	58.4	2.6	4.5	58	40 - 76
All Chemistry Instruments	24	86.3	4.7	5.5	86	60 - 113	24	58.4	2.7	4.7	58	40 - 76

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	287	90.2	12.9	14.3	91	63 - 118	285	101.0	11.5	11.4	100	70 - 132
All Dex-Sulfate 50,000 MW Methods	40	97.3	8.0	8.2	100	68 - 127	40	99.4	11.5	11.5	99	69 - 130
All Direct Methods	176	87.6	13.1	15.0	88	61 - 114	175	98.8	10.9	11.0	100	69 - 129
All Phosphotungstic Acid Methods	20	84.4	15.7	18.5	81	59 - 110	20	102.9	5.5	5.3	103	71 - 134
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	17	88.9	5.0	5.7	88	62 - 116	17	86.5	4.5	5.2	87	60 - 113
Alfa Wassermann - New												
Alfa Wassermann ACE Alera/Axcel	19	87.8	4.3	4.8	87	61 - 115	19	87.4	3.8	4.3	87	61 - 114
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	14	89.1	4.1	4.6	88	63 - 118	14	89.1	3.3	3.7	88	70 - 132
Beckman AU Direct HDL / LDL												
Beckman AU systems	17	98.4	4.2	4.2	98	68 - 128	17	100.3	4.8	4.8	101	70 - 131
Cholestech LDX												
Cholestech LDX - waived	13	100.0	0.0	0.0	100	70 - 130	13	97.5	5.0	5.2	100	68 - 127
All Chemistry Instruments	15	100.0	0.0	0.0	100	70 - 130	14	98.8	2.5	2.5	100	69 - 129
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	90.4	10.5	11.6	91	63 - 118	14	90.3	5.1	5.7	90	63 - 118
Roche HDL Direct												
Roche Integra	17	83.4	7.6	9.1	83	58 - 109	17	110.2	5.1	4.6	109	77 - 144
All Chemistry Instruments	21	83.1	6.8	8.2	83	58 - 109	21	110.0	4.7	4.3	109	77 - 143
Siemens Automated HDL												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	40	71.5	3.0	4.3	71	50 - 93	41	101.7	3.5	3.4	101	71 - 133
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	19	99.8	3.6	3.7	100	69 - 130	20	119.2	8.1	6.8	117	83 - 155
All Chemistry Instruments	24	101.7	6.6	6.5	101	71 - 133	24	119.2	7.8	6.6	117	83 - 155

Cholesterol, HDL (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	287	88.9	9.3	10.5	87	62 - 116
All Dex-Sulfate 50,000 MW Methods	40	92.3	9.5	10.3	95	64 - 120
All Direct Methods	172	86.1	8.5	9.8	85	60 - 112
All Phosphotungstic Acid Methods	20	90.6	6.0	6.6	89	63 - 118
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	17	78.1	3.7	4.7	78	54 - 102
Alfa Wassermann - New						
Alfa Wassermann ACE Alera/Axcel	19	79.0	3.4	4.4	80	55 - 103
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	14	81.2	4.5	5.5	81	62 - 116
Beckman AU Direct HDL / LDL						
Beckman AU systems	17	88.2	4.3	4.8	87	61 - 115
Cholestech LDX						
Cholestech LDX - waived	13	98.0	3.3	3.4	100	68 - 128
All Chemistry Instruments	15	98.3	3.2	3.2	100	68 - 128
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	82.4	4.9	6.0	82	57 - 108
Roche HDL Direct						
Roche Integra	17	94.5	4.9	5.2	94	66 - 123
All Chemistry Instruments	21	94.4	4.5	4.7	94	66 - 123
Siemens Automated HDL						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	41	86.0	3.0	3.5	86	60 - 112
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	20	98.4	4.8	4.9	99	68 - 128
All Chemistry Instruments	24	98.7	5.2	5.3	99	69 - 129

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	321	102.4	6.1	6.0	102	76 - 129	320	90.7	5.8	6.4	91	68 - 114
All Alfa Wassermann Reagents	49	102.9	2.9	2.8	103	77 - 129	48	95.3	3.4	3.5	95	71 - 120
All Horiba Pentra Reagents	17	104.8	3.1	3.0	105	78 - 132	17	92.5	3.9	4.2	92	69 - 116
All Roche Integra/c111/c501 Reagents	34	101.9	3.5	3.4	102	76 - 128	34	92.0	2.9	3.2	93	68 - 115
All Vital Diagnostics Reagents	20	104.8	7.2	6.9	103	78 - 131	20	88.1	6.9	7.8	88	66 - 111
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	45	103.0	2.9	2.8	103	77 - 129	44	95.2	3.4	3.5	95	71 - 120
Beckman AU												
Beckman AU systems	24	101.5	3.3	3.2	102	76 - 127	25	89.5	4.2	4.7	90	67 - 112
Cholestech LDX												
Cholestech LDX - waived	37	100.6	3.8	3.8	100	75 - 126	37	91.5	4.0	4.3	91	68 - 115
All Chemistry Instruments	44	100.3	3.9	3.9	100	75 - 126	44	91.0	4.2	4.6	91	68 - 114
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	104.8	3.1	3.0	105	78 - 132	17	93.6	5.9	6.3	92	70 - 118
Roche Integra												
Roche Integra	28	101.5	3.4	3.4	101	76 - 127	28	91.7	3.0	3.2	92	68 - 115
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	49	97.8	3.0	3.0	98	73 - 123	51	82.5	3.1	3.8	83	61 - 104
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	105.5	5.3	5.0	106	79 - 132	14	90.1	5.4	5.9	91	67 - 113
All Chemistry Instruments	17	104.2	5.7	5.4	103	78 - 131	17	89.5	5.4	6.0	91	67 - 112
VITROS												
VITROS 250,350,500,700,750,950	25	113.5	3.9	3.4	114	85 - 142	25	96.9	3.7	3.8	98	72 - 122
All Chemistry Instruments	30	112.9	3.8	3.4	114	84 - 142	30	96.3	3.7	3.9	97	72 - 121

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	287	255.0	18.1	7.1	250	191 - 319	286	115.1	8.3	7.2	114	86 - 144
All Alfa Wassermann Reagents	48	244.4	5.9	2.4	244	183 - 306	48	111.8	3.9	3.5	112	83 - 140
All Horiba Pentra Reagents	18	252.3	8.5	3.4	253	189 - 316	18	117.1	5.1	4.3	116	87 - 147
All Roche Integra/c111/c501 Reagents	34	246.3	7.1	2.9	245	184 - 308	34	111.8	4.1	3.6	111	83 - 140
All Vital Diagnostics Reagents	20	253.7	11.5	4.6	255	190 - 318	20	120.4	7.0	5.8	121	90 - 151
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	44	244.4	5.9	2.4	244	183 - 306	44	112.0	3.9	3.5	112	84 - 140
Beckman AU												
Beckman AU systems	25	250.4	10.1	4.0	251	187 - 314	25	114.4	5.2	4.6	115	85 - 143
Cholestech LDX												
Cholestech LDX - waived	13	273.9	6.6	2.4	274	205 - 343	13	110.5	5.5	5.0	111	82 - 139
All Chemistry Instruments	15	272.4	8.5	3.1	274	204 - 341	15	109.8	5.4	4.9	111	82 - 138
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	252.1	8.7	3.5	253	189 - 316	17	117.2	5.2	4.5	116	87 - 147
Roche Integra												
Roche Integra	28	245.8	7.2	2.9	244	184 - 308	28	111.1	3.6	3.2	110	83 - 139
Siemens Healthcare												
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	51	245.9	5.7	2.3	246	184 - 308	50	112.2	2.7	2.4	112	84 - 141
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	257.4	7.0	2.7	258	193 - 322	14	122.9	5.3	4.3	123	92 - 154
All Chemistry Instruments	17	255.4	9.5	3.7	256	191 - 320	17	121.0	6.9	5.7	121	90 - 152
VITROS												
VITROS 250,350,500,700,750,950	26	300.7	10.0	3.3	299	225 - 376	25	131.8	4.1	3.1	132	98 - 165
All Chemistry Instruments	30	299.0	8.1	2.7	298	224 - 374	30	131.1	4.2	3.2	131	98 - 164

Triglycerides (mg/dL)

Specimen CH-5

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	287	144.3	9.4	6.5	142	108 - 181
All Alfa Wassermann Reagents	48	141.9	4.3	3.0	141	106 - 178
All Horiba Pentra Reagents	18	145.2	4.5	3.1	145	108 - 182
All Roche Integra/c111/c501 Reagents	34	140.9	4.6	3.2	140	105 - 177
All Vital Diagnostics Reagents	19	147.3	8.5	5.8	148	110 - 185
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	44	141.9	4.2	2.9	141	106 - 178
Beckman AU						
Beckman AU systems	25	143.0	6.5	4.5	144	107 - 179
Cholestech LDX						
Cholestech LDX - waived	13	143.2	2.8	2.0	143	107 - 179
All Chemistry Instruments	15	142.5	3.1	2.2	142	106 - 179
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	145.2	4.7	3.2	144	108 - 182
Roche Integra						
Roche Integra	28	140.4	4.6	3.3	140	105 - 176
Siemens Healthcare						
Siemens						
Dimension/AR/ES/RxL/Xpand/EXL	51	139.4	3.7	2.7	139	104 - 175
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	150.5	6.0	4.0	150	112 - 189
All Chemistry Instruments	17	148.2	8.5	5.8	149	111 - 186
VITROS						
VITROS 250,350,500,700,750,950	25	166.2	4.7	2.8	167	124 - 208
All Chemistry Instruments	30	165.2	5.0	3.0	165	123 - 207

Acetaminophen (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	13.92	2.66	19.1	15.0	5.9 - 21.9	5	13.56	6.77	49.9	15.0	0.0 - 33.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	110.40	14.6	13.2	114.6	66.6 - 154.2	5	15.02	1.52	10.1	15.0	10.4 - 19.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>	Specimen CH-6			
			<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	39.00	4.37	11.2	40.0	25.8 - 52.2						

Carbamazepine (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	9.36	1.19	12.7	9.5	7.0 - 11.8	8	3.34	0.49	14.7	3.2	2.5 - 4.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	8.10	1.10	13.5	8.2	6.0 - 10.2	8	15.38	1.35	8.8	15.6	11.5 - 19.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>	Specimen CH-6			
			<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	8	10.73	1.21	11.3	10.9	8.0 - 13.5						

Digoxin (ng/mL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	0.69	0.14	20.7	0.7	0.4 - 0.9	23	0.27	0.11	40.4	0.3	0.0 - 0.5
Specimen CH-3							Specimen CH-4					
All Method	23	2.87	0.38	13.2	2.9	2.2 - 3.5	23	1.24	0.16	12.6	1.2	0.9 - 1.5
Specimen CH-5												
All Method	24	1.40	0.16	11.7	1.4	1.1 - 1.7						

Gentamicin (mcg/mL)

Specimen CH-1							Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	5.5	Not graded	2	-	-	-	9.5	Not graded
Specimen CH-3							Specimen CH-4					
All Method	2	-	-	-	2.5	Not graded	2	-	-	-	1.1	Not graded
Specimen CH-5												
All Method	2	-	-	-	3.6	Not graded						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.74	0.15	8.6	1.8	1.3 - 2.1	5	2.56	0.22	8.6	2.6	2.0 - 3.1
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.50	0.12	24.0	0.5	0.2 - 0.8	5	0.96	0.11	11.5	1.0	0.6 - 1.3
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.22	0.13	10.7	1.3	0.9 - 1.6						

Phenobarbital (mcg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	20.38	1.04	5.1	20.7	16.3 - 24.5	5	8.20	1.62	19.8	7.8	6.5 - 9.9
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	52.90	2.60	4.9	51.4	42.3 - 63.5	5	32.16	1.56	4.9	31.6	25.7 - 38.6
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	31.32	1.36	4.3	31.5	25.0 - 37.6						

Phenytoin (mcg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	19.56	1.18	6.0	19.6	14.6 - 24.5	13	6.92	0.92	13.3	6.8	5.1 - 8.7
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	15.29	1.13	7.4	15.1	11.4 - 19.2	14	31.31	2.18	7.0	31.8	23.4 - 39.2
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	21.59	1.45	6.7	21.6	16.1 - 27.0						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	11.2	Not graded	2	-	-	-	8.5	Not graded
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	37.4	Not graded	2	-	-	-	12.4	Not graded
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	17.7	Not graded						

Theophylline (mcg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-1				<u>Labs</u>	<u>Mean</u>	Specimen CH-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	26.94	2.1	7.8	27.8	20.2 - 33.7	5	15.52	1.53	9.9	15.5	11.6 - 19.4
	<u>Labs</u>	<u>Mean</u>	Specimen CH-3				<u>Labs</u>	<u>Mean</u>	Specimen CH-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	10.50	0.61	5.8	10.5	7.8 - 13.2	5	39.90	2.88	7.2	40.0	29.9 - 49.9
	<u>Labs</u>	<u>Mean</u>	Specimen CH-5				<u>Labs</u>	<u>Mean</u>	Specimen CH-6			
			<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	26.74	2.25	8.4	26.5	20.0 - 33.5	5	15.52	1.53	9.9	15.5	11.6 - 19.4

Valproic Acid (mcg/mL)

	Specimen CH-1						Specimen CH-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	61.29	3.95	6.5	60.3	45.9 - 76.7	9	81.21	6.78	8.4	79.6	60.9 - 101.6
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	59.80	3.08	5.2	59.7	44.8 - 74.8	5	76.92	2.95	3.8	77.0	57.6 - 96.2
	Specimen CH-3						Specimen CH-4					
All Method	9	133.21	9.17	6.9	131.8	99.9 - 166.6	9	40.37	2.19	5.4	40.2	30.2 - 50.5
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	129.78	9.05	7.0	127.5	97.3 - 162.3	5	39.76	1.47	3.7	39.2	29.8 - 49.7
	Specimen CH-5											
All Method	9	74.23	4.66	6.3	72.9	55.6 - 92.8						
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	71.86	2.33	3.2	72.5	53.8 - 89.9						

Vancomycin (mcg/mL)

<u>Method</u>	Specimen CH-1						Specimen CH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	15.58	1.02	6.6	15.2	12.5 - 18.7	5	3.92	1.01	25.7	4.4	0.8 - 7.0
	Specimen CH-3						Specimen CH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	48.16	4.12	8.6	47.2	35.7 - 60.6	5	27.06	2.28	8.4	25.9	20.2 - 34.0
	Specimen CH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	26.78	2.25	8.4	26.5	20.0 - 33.6						

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-1						Specimen LP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	197.2	40.48	20.5	210	138 - 257	5	139.2	16.47	11.8	135	97 - 181

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-1						Specimen LP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	91.2	12.3	13.5	92	68 - 114	5	61.8	7.5	12.1	61	46 - 78

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-1						Specimen NB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	19.74	1.37	7.0	19.8	15.7 - 23.7	19	13.56	1.53	11.3	13.4	10.8 - 16.3
No Reagent Required												
All Chemistry Instruments	10	20.17	1.41	7.0	20.9	16.1 - 24.3	10	13.44	0.92	6.8	13.9	10.7 - 16.2
	Specimen NB-3						Specimen NB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	7.16	0.73	10.2	7.0	5.7 - 8.6	18	17.98	1.30	7.2	17.8	14.3 - 21.6
No Reagent Required												
All Chemistry Instruments	10	7.09	0.41	5.7	7.3	5.6 - 8.6	10	18.29	1.31	7.2	18.8	14.6 - 22.0
	Specimen NB-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	2.80	0.20	7.2	2.8	2.2 - 3.4						
No Reagent Required												
All Chemistry Instruments	10	2.72	0.23	8.5	2.6	2.1 - 3.3						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-1						Specimen NB-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	10.71	4.04	37.7	9.7	2.6 - 18.8	10	7.32	2.54	34.7	6.7	2.2 - 12.5
	Specimen NB-3						Specimen NB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	3.87	1.40	36.2	3.6	1.0 - 6.7	10	9.72	3.68	37.8	8.7	2.3 - 17.1
	Specimen NB-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	0.99	0.62	62.5	0.8	0.0 - 2.3						

Blood Gases – pH

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				<u>Labs</u>	<u>Mean</u>	Specimen BG-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	7.191	0.018	0.2	7.20	7.15 - 7.24	10	7.541	0.016	0.2	7.55	7.50 - 7.59
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-3				<u>Labs</u>	<u>Mean</u>	Specimen BG-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	7.677	0.022	0.3	7.68	7.63 - 7.72	10	7.255	0.015	0.2	7.26	7.21 - 7.30
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	7.355	0.008	0.1	7.36	7.31 - 7.40						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				<u>Labs</u>	<u>Mean</u>	Specimen BG-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	59.23	3.85	6.5	58.4	54.2 - 64.3	10	30.20	0.85	2.8	30.5	25.2 - 35.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-3				<u>Labs</u>	<u>Mean</u>	Specimen BG-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	21.04	0.69	3.3	21.1	16.0 - 26.1	10	50.99	3.37	6.6	50.8	45.9 - 56.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	42.05	1.85	4.4	42.1	37.0 - 47.1						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-1				<u>Labs</u>	<u>Mean</u>	Specimen BG-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	70.63	12.13	17.2	75.0	34.2 - 107.1	10	198.88	14.37	7.2	196.0	155.7 - 242.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-3				<u>Labs</u>	<u>Mean</u>	Specimen BG-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	132.38	8.55	6.5	131.5	106.7 - 158.1	10	143.63	6.65	4.6	145.0	123.6 - 163.6
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-5				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	175.38	13.32	7.6	176.0	135.4 - 215.4						

Blood Gases – Ionized Calcium (mmol/L)

<u>Method</u>	Specimen BG-1						Specimen BG-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.626	0.009	0.6	1.62	1.59 - 1.66	5	0.814	0.037	4.5	0.82	0.70 - 0.93
	Specimen BG-3						Specimen BG-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.552	0.072	13.0	0.52	0.33 - 0.77	5	0.988	0.043	4.3	0.99	0.85 - 1.12
	Specimen BG-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.306	0.049	3.8	1.3	1.15 - 1.46						

Blood Gases – Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-1 through BG-5 are: 76 mmol/L, 69 mmol/L, 116 mmol/L, 83 mmol/L, and 90 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-1 through BG-5 are: 3.1 mmol/L, 3.5 mmol/L, 6.6 mmol/L, 2.7 mmol/L, and 3.8 mmol/L, respectively.

Blood Gases - Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-1 through BG-5 are: 114 mmol/L, 122 mmol/L, 153 mmol/L, 119 mmol/L, and 128 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-1 through BG-5 are: 7.4 mmol/L, 8.3 mmol/L, 1.8 mmol/L, 5.4 mmol/L, and 4.5 mmol/L, respectively.

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-1						Specimen GH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	249	8.10	0.36	4.4	8.1	7.4 - 8.8	258	5.83	0.26	4.5	5.9	5.3 - 6.3
All Hemoglobin A1c Methods	247	8.10	0.36	4.4	8.1	7.4 - 8.8	256	5.83	0.26	4.5	5.9	5.3 - 6.3
Bayer DCA 2000/+	16	8.34	0.17	2.1	8.3	7.6 - 9.1	16	6.04	0.15	2.5	6.0	5.5 - 6.6
Beckman AU A1c	11	7.66	0.59	7.7	7.6	7.0 - 8.3	12	5.62	0.39	6.9	5.6	5.1 - 6.1
Roche Integra A1C	11	7.92	0.77	9.8	7.7	7.2 - 8.6	11	5.71	0.27	4.7	5.7	5.2 - 6.2
Siemens DCA Vantage	103	8.16	0.21	2.6	8.2	7.5 - 8.9	101	5.91	0.14	2.4	5.9	5.4 - 6.4
Siemens Dimension HB1C	41	8.31	0.26	3.1	8.3	7.6 - 9.0	40	5.79	0.21	3.6	5.8	5.3 - 6.3

B-Type Natriuretic Peptide (BNP)

<u>Method</u>	Specimen BNP-1						Specimen BNP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	61.9	8.4	13.5	62	36 - 87	30	719.3	127.1	17.7	698	338 - 1101
Biosite Triage	28	62.6	8.0	12.8	62	38 - 87	28	731.8	122.2	16.7	698	365 - 1099

NT-proBNP

<u>Method</u>	Specimen BNP-1						Specimen BNP-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	72.9	41.7	57.2	63	0 - 157	8	2275.8	1614.8	71.0	1481	0 - 5506

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-1						Specimen AFN-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	41	7.88	0.15	1.9	7.9	7.2 - 8.6	40	6.34	0.13	2.1	6.3	5.8 - 6.9
Axis-Shield Afinion AS100	41	7.88	0.15	1.9	7.9	7.2 - 8.6	40	6.34	0.13	2.1	6.3	5.8 - 6.9

BNP (pg/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-1						Specimen TCK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	36	66.8	10.8	16.1	66	34 - 100	36	758.3	98.9	13.0	729	461 - 1055
<u>Method</u>	Specimen TCK-3						Specimen TCK-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>
Biosite Triage	34	436.2	62.9	14.4	430	247 - 625	34	1555.3	289.0	18.6	1550	688 - 2423
<u>Method</u>	Specimen TCK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	34	2574.7	586.3	22.8	2490	815 - 4334						

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

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-1				Specimen TCK-2					
			<u>SD</u>	<u>CV</u>	<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	29	2.4	0.7	30.1	3	0 - 5	31	12.0	1.3	11.2	12	7 - 17
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-3				Specimen TCK-4					
			<u>SD</u>	<u>CV</u>	<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	6.8	1.3	18.7	7	2 - 11	31	21.6	4.0	18.4	21	9 - 34
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	30	38.6	5.0	13.0	38	23 - 54						

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

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-1				Specimen TCK-2					
			<u>SD</u>	<u>CV</u>	<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	556.1	72.0	13.0	561	389 - 723	32	856.3	66.9	7.8	862	599 - 1114
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-3				Specimen TCK-4					
			<u>SD</u>	<u>CV</u>	<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	731.9	72.1	9.9	723	512 - 952	32	1102.3	125.1	11.3	1080	771 - 1434
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	32	1535.3	175.5	11.4	1525	1074 - 1996						

Myoglobin (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-1				Specimen TCK-2					
			<u>SD</u>	<u>CV</u>	<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	61.2	9.4	15.4	59	42 - 80	26	183.3	22.7	12.4	184	128 - 239
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-3				Specimen TCK-4					
			<u>SD</u>	<u>CV</u>	<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	120.0	16.1	13.4	120	83 - 156	26	285.4	51.5	18.1	284	199 - 372
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen TCK-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Biosite Triage	26	410.4	50.9	12.4	411	287 - 534						

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

<u>Method</u>	Specimen TCK-1						Specimen TCK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	36	0.050	0.000	0.0	0.05	0.03 - 0.07	36	0.669	0.169	25.3	0.66	0.33 - 1.01
	Specimen TCK-3						Specimen TCK-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>
Biosite Triage	37	0.232	0.065	28.1	0.22	0.10 - 0.37	37	2.117	0.619	29.3	1.99	0.87 - 3.36
	Specimen TCK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Biosite Triage	37	6.216	1.266	20.4	6.02	3.68 - 8.75						

C-Peptide (ng/mL)

<u>Method</u>	<u>Labs</u>	Specimen CIP-1					Specimen CIP-2					
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	2.194	0.500	22.8	1.90	1.19 - 3.20	7	3.690	0.904	24.5	3.20	1.88 - 5.50

Insulin (μU/mL)

	Specimen CIP-1						Specimen CIP-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	32.28	11.83	36.6	38.9	8.6 - 56.0	14	51.40	19.97	38.8	62.2	11.4 - 91.4

Parathyroid hormone (pg/mL)

	Specimen CIP-1						Specimen CIP-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	23.8	4.2	17.6	22	15 - 33	35	31.9	7.0	21.9	29	17 - 46

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

	Specimen CIP-1						Specimen CIP-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	58	21.90	7.22	33.0	22.2	7.4 - 36.4	58	27.99	9.28	33.2	27.4	9.4 - 46.6
Abbott Architect	15	17.97	1.68	9.3	18.6	14.6 - 21.4	15	23.33	1.83	7.8	23.2	19.6 - 27.0

CK-MB (ng/mL) Quantitative

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	5.31	1.81	34.2	5.8	0.0 - 10.8	20	23.48	7.47	31.8	26.0	1.0 - 45.9
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	13.49	4.15	30.8	15.2	1.0 - 26.0	20	42.62	14.10	33.1	48.6	0.3 - 85.0
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	80.01	27.68	34.6	88.7	0.0 - 163.1						

CK-MB (Qualitative)

<u>Method</u>	Specimen CK-1		Specimen CK-2		Specimen CK-3	
	<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-4		Specimen CK-5			
	<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-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	52.52	9.06	17.2	52.0	36.7 - 68.3	10	175.05	27.55	15.7	167.5	122.5 - 227.6
<u>Method</u>	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	114.43	20.59	18.0	111.5	80.1 - 148.8	10	282.73	49.01	17.3	274.5	197.9 - 367.6
<u>Method</u>	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	507.72	117.00	23.0	492.5	355.4 - 660.1						

Myoglobin (Qualitative)

<u>Method</u>	Specimen CK-1		Specimen CK-2		Specimen CK-3	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	2	1	1	-	2
LifeSign MI	-	2	1	1	-	2
	Specimen CK-4		Specimen CK-5			
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>		
ALL METHODS	1	1	2	-		
LifeSign MI	1	1	2	-		

Specimens CK-2 and CK-4 are ungraded challenges due to less than 80% participant consensus.

Troponin I (ng/mL) Quantitative

<u>Method</u>	Specimen CK-1						Specimen CK-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.051	0.077	151.9	0.04	0.00 - 0.21	19	1.564	2.782	177.9	0.96	0.00 - 7.13
	Specimen CK-3						Specimen CK-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	0.453	0.199	43.9	0.50	0.05 - 0.86	18	2.031	0.403	19.8	2.00	1.22 - 2.84
	Specimen CK-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	4.548	0.898	19.8	4.69	2.75 - 6.35						

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-1		Specimen CK-2		Specimen CK-3	
	<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	-
	Specimen CK-4		Specimen CK-5			
	<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-1						Specimen PS-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	192	0.607	0.110	18.1	0.60	0.00 - 1.51	187	27.682	3.821	13.8	27.52	19.37 - 35.99
All Roche Elecsys/Cobas Instruments	12	0.673	0.028	4.1	0.68	0.00 - 1.58	12	28.918	1.965	6.8	28.60	20.24 - 37.60
All TOSOH Instruments	46	0.567	0.047	8.2	0.56	0.00 - 1.47	46	23.273	0.819	3.5	23.28	16.29 - 30.26
Abbott Architect	16	0.504	0.041	8.1	0.50	0.00 - 1.41	16	26.271	1.953	7.4	25.88	18.38 - 34.16
Beckman ACCESS / 2 / Dxl	13	0.684	0.061	8.9	0.69	0.00 - 1.59	14	30.719	2.716	8.8	30.31	21.50 - 39.94
Beckman ACCESS Hybritech PSA	27	0.696	0.031	4.4	0.69	0.00 - 1.60	26	30.784	1.163	3.8	31.01	21.54 - 40.02
bioMerieux Vidas, Mini Vidas	33	0.738	0.078	10.5	0.73	0.00 - 1.64	32	30.615	2.990	9.8	29.87	21.43 - 39.80
Siemens Dimension TPSA	30	0.501	0.044	8.7	0.50	0.00 - 1.41	30	26.738	1.506	5.6	26.72	18.71 - 34.76
TOSOH AIA	15	0.557	0.034	6.1	0.55	0.00 - 1.46	15	23.399	0.789	3.4	23.25	16.37 - 30.42
TOSOH ST AIA	31	0.573	0.051	9.0	0.57	0.00 - 1.48	31	23.212	0.839	3.6	23.34	16.24 - 30.18

Beta-2 microglobulin

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	2.685	0.241	9.0	2.70	1.96 - 3.41	6	1.892	0.099	5.2	1.89	1.59 - 2.19
TOSOH ST AIA	5	2.682	0.269	10.0	2.70	1.87 - 3.50	5	1.890	0.111	5.9	1.88	1.55 - 2.23

CA 125 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	106.6	8.6	8.1	151	74 - 139	12	77.3	7.3	9.4	106	54 - 101
All TOSOH Instruments	13	172.2	9.3	5.4	172	120 - 224	13	122.1	8.6	7.1	124	85 - 159

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	146.8	43.8	29.9	169	15 - 279	11	109.6	32.0	29.2	124	13 - 206

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	57.3	32.5	56.7	39	0 - 155	7	41.1	22.0	53.4	29	0 - 108

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	193.3	18.3	9.5	191	138 - 249	22	145.7	16.7	11.4	141	95 - 196
All TOSOH Instruments	17	190.6	14.8	7.8	188	146 - 236	18	143.8	14.9	10.3	141	99 - 189
TOSOH ST AIA	13	194.2	14.5	7.5	200	150 - 238	13	143.5	12.8	8.9	141	105 - 182

CEA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	24.65	5.59	22.7	40.9	17.2 - 32.1	12	17.22	3.33	19.4	28.3	12.0 - 22.4
All TOSOH Instruments	19	42.08	1.88	4.5	41.3	29.4 - 54.8	19	29.94	1.46	4.9	29.9	20.9 - 39.0
TOSOH ST AIA	14	42.44	2.00	4.7	42.1	29.7 - 55.2	14	30.21	1.59	5.3	30.7	21.1 - 39.3

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	13.940	2.643	19.0	14.23	9.75 - 18.13	16	9.114	1.643	18.0	9.45	6.38 - 11.85

PSA (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	14.525	1.785	12.3	14.10	10.16 - 18.89	53	9.784	1.191	12.2	9.49	6.84 - 12.72
All TOSOH Instruments	17	12.776	0.498	3.9	12.68	8.94 - 16.61	17	8.625	0.351	4.1	8.54	6.03 - 11.22
TOSOH ST AIA	12	12.885	0.546	4.2	12.92	9.01 - 16.76	12	8.718	0.381	4.4	8.73	6.10 - 11.34

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-1						Specimen TM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	30.54	6.12	20.0	33.9	18.3 - 42.8	5	19.70	5.47	27.7	22.8	8.7 - 30.7

CEA (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	0.39	0.11	28.2	0.5	0.0 - 1.6	11	36.15	6.58	18.2	44.4	25.3 - 47.0

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	32.4	9.6	29.7	32	13 - 52	42	484.8	183.5	37.9	374	117 - 852
All TOSOH Instruments	11	41.1	6.8	16.5	41	27 - 55	11	772.5	33.7	4.4	768	705 - 840

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	63	8.8	1.1	12.5	8	6 - 12	65	326.9	45.8	14.0	274	228 - 425
All Abbott Instruments	10	9.0	1.1	11.7	9	6 - 12	10	399.6	19.5	4.9	401	279 - 520
All Roche Elecsys/Cobas Instruments	10	9.8	0.6	6.5	10	6 - 13	10	347.5	15.3	4.4	352	243 - 452
All TOSOH Instruments	31	6.0	0.5	9.1	6	4 - 8	32	243.2	11.7	4.8	244	170 - 317
Abbott Architect	10	9.0	1.1	11.7	9	6 - 12	10	399.6	19.5	4.9	401	279 - 520
Beckman ACCESS / 2 / Dxl	34	6.9	0.6	8.6	7	4 - 10	32	265.2	12.9	4.9	266	185 - 345
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	16	8.9	0.8	8.6	9	6 - 12	16	324.9	13.5	4.2	326	227 - 423
TOSOH AIA	13	6.0	0.6	9.6	6	4 - 8	13	239.9	12.6	5.3	239	167 - 312
TOSOH ST AIA	18	6.1	0.5	8.9	6	4 - 8	19	245.5	10.9	4.4	244	171 - 320

Folate (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	1.01	0.45	44.5	0.9	0.1 - 2.0	28	9.78	1.76	18.0	10.0	6.8 - 12.8
All TOSOH Instruments	14	1.46	0.60	41.2	1.3	0.5 - 2.4	12	7.25	0.90	12.5	7.2	5.0 - 9.5
Beckman ACCESS / 2 / Dxl	36	0.58	0.28	48.8	0.7	0.0 - 1.5	36	10.60	0.79	7.4	10.4	7.4 - 13.8
TOSOH AIA	12	1.39	0.56	40.5	1.3	0.4 - 2.3	10	7.28	0.99	13.6	7.2	5.0 - 9.5

FSH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	7.68	1.11	14.4	7.6	5.7 - 9.6	49	52.48	3.87	7.4	52.3	39.3 - 65.6
All TOSOH Instruments	11	8.90	0.57	6.4	8.8	6.6 - 11.2	11	52.09	2.51	4.8	51.7	39.0 - 65.2
Beckman ACCESS / 2 / Dxl	13	8.02	0.41	5.1	8.0	6.0 - 10.1	14	55.21	4.49	8.1	54.6	41.4 - 69.1

Homocysteine (μmol/L)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	8.8	1.6	18.5	9	7 - 11	13	42.8	4.1	9.7	42	34 - 52

LH (mIU/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	45	3.26	0.63	19.5	3.1	1.9 - 4.6	45	50.60	10.09	19.9	48.9	30.4 - 70.8
Beckman ACCESS / 2 / Dxl	12	3.01	0.27	8.9	3.1	2.4 - 3.6	12	41.19	3.26	7.9	41.9	34.6 - 47.8

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	4.04	0.70	17.3	4.0	2.8 - 5.3	25	43.89	8.58	19.5	41.7	30.7 - 57.1
All TOSOH Instruments	10	4.70	0.36	7.7	4.7	3.2 - 6.2	7	-	-	-	40.0	29.2 - 54.3

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	2.76	0.41	14.9	2.8	0.0 - 6.4	34	16.11	3.42	21.2	16.1	11.2 - 21.0
Beckman ACCESS / 2 / Dxl	10	2.97	0.13	4.5	3.0	0.0 - 6.6	10	17.10	0.87	5.1	17.0	11.9 - 22.3

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	83	127.5	27.7	21.7	125	89 - 166	85	1099.3	191.8	17.4	1069	769 - 1430
All Immulite Instruments	10	188.1	39.6	21.0	186	131 - 245	10	1217.0	218.7	18.0	1156	851 - 1583
All TOSOH Instruments	19	136.4	12.8	9.4	139	95 - 178	19	1329.5	67.0	5.0	1341	930 - 1729
Beckman ACCESS / 2 / Dxl	31	107.9	7.1	6.6	106	75 - 141	31	955.1	63.9	6.7	947	668 - 1242
TOSOH ST AIA	11	140.3	11.7	8.3	143	98 - 183	11	1347.5	50.3	3.7	1363	943 - 1752

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	70.6	3.4	4.8	70	65 - 76	10	279.5	12.4	4.4	283	259 - 300

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-1						Specimen SC-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	98	413.7	60.0	14.5	402	289 - 538	98	1295.0	166.3	12.8	1283	906 - 1684
All Roche Elecsys/Cobas Instruments	10	393.5	59.6	15.2	396	275 - 512	10	1493.1	89.3	6.0	1499	1045 - 1942
All TOSOH Instruments	18	503.6	27.8	5.5	506	352 - 655	18	1295.1	100.1	7.7	1279	906 - 1684
Abbott Architect	12	431.2	37.4	8.7	431	301 - 561	13	1360.6	312.1	22.9	1422	952 - 1769
Beckman ACCESS / 2 / Dxl	41	374.6	26.2	7.0	374	262 - 487	41	1227.5	111.8	9.1	1231	859 - 1596
TOSOH AIA	15	501.3	25.6	5.1	505	350 - 652	15	1291.9	97.9	7.6	1280	904 - 1680

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-1						Specimen ETH-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	216.0	20.7	9.6	208	162 - 270	5	31.4	3.8	12.3	28	23 - 40
Roche Integra	5	206.8	1.6	0.8	207	155 - 259	5	27.0	2.3	8.7	26	20 - 34
<u>Method</u>	Specimen ETH-3						Specimen ETH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	72.6	8.0	11.0	69	54 - 91	5	150.0	15.2	10.1	144	112 - 188
Roche Integra	5	66.8	2.6	3.9	68	50 - 84	5	143.6	2.2	1.5	143	107 - 180
<u>Method</u>	Specimen ETH-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	187.0	18.6	10.0	179	140 - 234						
Roche Integra	5	177.8	3.3	1.9	177	133 - 223						

Acetone

<u>Method</u>	Specimen ETH-1					Specimen ETH-2				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
Bayer Acetest	9	-	1	6	2	9	9	-	-	-
	Specimen ETH-3					Specimen ETH-4				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
Bayer Acetest	9	1	7	1	-	9	9	-	-	-
	Specimen ETH-5									
	<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>
Bayer Acetest	9	9	-	-	-					

Anti-Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-1						Specimen THY-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	7.2	9.5	132.3	0	0 - 27	21	2037.5	834.4	41.0	2261	368 - 3707

Anti-Microsomal Antibody (IU/mL)

<u>Method</u>	Specimen THY-1						Specimen THY-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	5.4	8.5	157.7	1	0 - 23	20	77.3	15.5	20.0	75	46 - 109

Urine Drug Screen

Acetaminophen

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	5	3	2	5	-	5
BioSite Diagnostics Triage	2	-	2	2	-	2
Noble Medical Inc.	3	3	-	3	-	3

Amphetamines

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	95	94	1	95	-	95
Alfa Scientific Instant-View	1	1	-	1	-	1
Bayer ADVIA 1200	1	1	-	1	-	1
Beckman Synchron	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BioSite Diagnostics Triage	3	3	-	3	-	3
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	4	4	-	4	-	4
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	3	3	-	3	-	3
Instant Technologies i Cassette	6	6	-	6	-	6
Instant Technologies i Screen	6	6	-	6	-	6
Instant Technologies iCup	11	11	-	11	-	11
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Lin-Zhi International	12	12	-	12	-	12
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	8	8	-	8	-	8
Mindray BS-200	2	2	-	2	-	2
Noble Medical Inc.	2	2	-	2	-	2
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-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	87	-	87	87	85	2
Alfa Scientific Instant-View	1	-	1	1	1	-
Bayer ADVIA 1200	1	-	1	1	1	-
Beckman Synchron	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	2	2	-
BioSite Diagnostics Triage	3	-	3	3	3	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	3	-	3	3	3	-
Innovacon Multi-CLIN Drug Screen	2	-	2	2	2	-
Innovacon Multi-Drug One Step	2	-	2	2	2	-
Instant Technologies i Cassette	6	-	6	6	6	-
Instant Technologies i Screen	6	-	6	6	6	-
Instant Technologies iCup	10	-	10	10	8	2
Lin-Zhi International	10	-	10	10	10	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	7	-	7	7	7	-
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	-

Benzodiazepines

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	93	-	93	93	1	92
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Beckman Synchron	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BioSite Diagnostics Triage	3	-	3	3	-	3
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	4	-	4	4	-	4
Innovacon Multi-CLIN Drug Screen	2	-	2	2	-	2
Innovacon Multi-Drug One Step	2	-	2	2	-	2
Instant Technologies i Cassette	6	-	6	6	-	6
Instant Technologies i Screen	6	-	6	6	-	6
Instant Technologies iCup	10	-	10	10	-	10
Lin-Zhi International	12	-	12	12	-	12
MEDTOX Diagnostics	5	-	5	5	1	4
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200	2	-	2	2	-	2
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

Buprenorphine

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	26	-	26	26	-	26
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	1	-	1	1	-	1
Microgenics CEDIA	5	-	5	5	-	5
Mindray BS-200	2	-	2	2	-	2

Cannabinoids (THC)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	99	98	1	98	-	98
Alfa Scientific Instant-View	1	1	-	1	-	1
Bayer ADVIA 1200	1	1	-	1	-	1
Beckman Synchron	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BioSite Diagnostics Triage	3	2	1	3	-	3
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	4	4	-	4	-	4
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	4	4	-	4	-	4
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	6	6	-	6	-	6
Instant Technologies i Screen	6	6	-	6	-	6
Instant Technologies iCup	12	12	-	12	-	12
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	7	7	-	7	-	7
Mindray BS-200	2	2	-	2	-	2
Noble Medical Inc.	3	3	-	2	-	2
Redwood Toxicology Reditest	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
Siemens Dimension	1	1	-	1	-	1

Cocaine Metabolites

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	100	-	100	100	99	1
Alfa Scientific Instant-View	1	-	1	1	1	-
Bayer ADVIA 1200	1	-	1	1	1	-
Beckman Synchron	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	1	1	-
BioSite Diagnostics Triage	3	-	3	3	3	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	4	-	4	4	4	-
Innovacon Multi-CLIN Drug Screen	2	-	2	2	2	-
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	6	-	6	6	6	-
Instant Technologies iCup	12	-	12	12	11	1
Integrated E-Z Split Key Cup / II	2	-	2	2	2	-
Lin-Zhi International	12	-	12	12	12	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	8	-	8	8	8	-
Mindray BS-200	2	-	2	2	2	-
Noble Medical Inc.	2	-	2	3	3	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	1	-	1	1	1	-

EDDP

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1

Ethanol (Alcohol)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	22	22	-	22	-	22
Dade Behring EMIT II Plus	3	3	-	3	-	3
Lin-Zhi International	11	11	-	11	-	11
Microgenics DRI	4	4	-	4	-	4
Roche Integra	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1

MDMA

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	47	44	3	47	-	47
Alfa Scientific Instant-View	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
Dade Behring EMIT II Plus	2	2	-	2	-	2
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	1	1	-	1	-	1
Instant Technologies i Cassette	3	3	-	3	-	3
Instant Technologies iCup	7	4	3	7	-	7
Lin-Zhi International	9	9	-	9	-	9
Microgenics DRI	2	2	-	2	-	2
Noble Medical Inc.	1	1	-	1	-	1
Redwood Toxicology Reditest	1	1	-	1	-	1

Methadone

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	75	-	75	75	69	6
Alfa Scientific Instant-View	1	-	1	1	1	-
Bayer ADVIA 1200	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	2	2	-
BioSite Diagnostics Triage	2	-	2	2	2	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Dade Behring EMIT II Plus	4	-	4	4	4	-
Innovacon Multi-CLIN Drug Screen	2	-	2	2	2	-
Innovacon Multi-Drug One Step	2	-	2	2	2	-
Instant Technologies i Cassette	3	-	3	3	3	-
Instant Technologies i Screen	1	-	1	1	1	-
Instant Technologies iCup	10	-	10	10	7	3
Lin-Zhi International	9	-	9	9	9	-
MEDTOX Diagnostics	2	-	2	2	1	1
Microgenics DRI	7	-	7	7	7	-
Mindray BS-200	2	-	2	2	2	-
Noble Medical Inc.	1	-	1	1	1	-
Redwood Toxicology Reditest	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-

Methamphetamines

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	57	56	1	57	1	56
Alfa Scientific Instant-View	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BioSite Diagnostics Triage	1	1	-	1	-	1
BMC QuickTox Drug Screen	1	1	-	1	-	1
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	3	3	-	3	-	3
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	3	3	-	3	-	3
Instant Technologies i Screen	6	6	-	6	-	6
Instant Technologies iCup	10	10	-	10	-	10
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Lin-Zhi International	2	2	-	2	-	2
MEDTOX Diagnostics	2	2	-	2	-	2
Noble Medical Inc.	1	1	-	1	-	1
Redwood Toxicology Reditest	1	1	-	1	-	1
Siemens Dimension	1	-	1	1	1	-

Methaqualone

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1

Morphine

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	2	1	1	2	-	2
Alfa Scientific Instant-View	1	1	-	1	-	1
Lin-Zhi International	1	-	1	1	-	1

Specimen UDS-1 is ungraded challenge due to less than 80% participant consensus.

Opiates

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	100	95	5	99	-	99
Alfa Scientific Instant-View	1	1	-	1	-	1
Bayer ADVIA 1200	1	1	-	1	-	1
Beckman Synchron	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BioSite Diagnostics Triage	3	3	-	3	-	3
BMC QuickTox Drug Screen	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Dade Behring EMIT II Plus	4	4	-	4	-	4
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
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	6	6	-	6	-	6
Instant Technologies iCup	11	8	3	11	-	11
Integrated E-Z Split Key Cup / II	2	2	-	2	-	2
Lin-Zhi International	12	12	-	12	-	12
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	8	8	-	8	-	8
Mindray BS-200	2	2	-	2	-	2
Noble Medical Inc.	3	3	-	2	-	2
Redwood Toxicology Reditest	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
Siemens Dimension	1	1	-	1	-	1

Oxycodone

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	68	8	60	68	-	68
Alfa Scientific Instant-View	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	1	-	1	1	-	1
Innovacon Multi-CLIN Drug Screen	2	2	-	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Instant Technologies i Cassette	5	-	5	5	-	5
Instant Technologies iCup	10	1	9	10	-	10
Lin-Zhi International	8	-	8	8	-	8
MEDTOX Diagnostics	2	1	1	2	-	2
Microgenics DRI	11	-	11	11	-	11
Mindray BS-200	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2

Phencyclidine (PCP)

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	72	-	72	72	-	72
Alfa Scientific Instant-View	1	-	1	1	-	1
Bayer ADVIA 1200	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BioSite Diagnostics Triage	2	-	2	2	-	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Dade Behring EMIT II Plus	3	-	3	3	-	3
Innovacon Multi-CLIN Drug Screen	2	-	2	2	-	2
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	6	-	6	6	-	6
Instant Technologies iCup	5	-	5	5	-	5
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.	2	-	2	2	-	2
Redwood Toxicology Reditest	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1

Propoxyphene

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	19	19	-	19	-	19
Bayer ADVIA 1200	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
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	2	2	-	2	-	2
Microgenics DRI	2	2	-	2	-	2
Redwood Toxicology Reditest	1	1	-	1	-	1

Tricyclic Antidepressants

<u>Method</u>	Specimen UDS-1			Specimen UDS-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	27	-	27	27	-	27
Alfa Scientific Instant-View	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BioSite Diagnostics Triage	3	-	3	3	-	3
Innovacon Multi-CLIN Drug Screen	2	-	2	2	-	2
Instant Technologies i Cassette	3	-	3	3	-	3
Instant Technologies iCup	4	-	4	4	-	4
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1

Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-1						Specimen AMM-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	53.6	3.9	7.3	52	45 - 62	9	158.4	8.2	5.2	155	142 - 175
Siemens												
Dimension/AR/ES/RxL/Xpand/EXL	5	55.2	4.4	8.0	52	46 - 65	5	162.8	8.8	5.4	167	145 - 181

Whole Blood Glucose (mg/dL)

Specimen WBG-1							Specimen WBG-2					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	398	212.4	39.7	18.7	208	169 - 255	405	91.1	17.4	19.1	88	72 - 110
All Arkray Methods	27	335.6	39.5	11.8	344	268 - 403	27	112.8	8.3	7.3	113	90 - 136
All Bayer Methods	87	175.7	24.2	13.8	168	140 - 211	88	74.1	6.1	8.2	72	59 - 89
All Hemocue Methods	41	224.1	5.2	2.3	225	179 - 269	42	123.4	5.2	4.2	123	98 - 149
All Lifescan Methods	53	243.6	10.6	4.4	243	194 - 293	53	99.4	5.5	5.6	99	79 - 120
All Medisense Methods	30	241.2	17.0	7.1	239	192 - 290	30	96.4	5.9	6.2	96	77 - 116
All Roche Methods	95	196.8	12.2	6.2	196	157 - 237	94	81.9	9.3	11.4	83	65 - 99
Abbott FreeStyle Lite	15	202.2	8.7	4.3	200	161 - 243	15	85.2	2.4	2.8	85	68 - 103
Arkray Platinum	19	341.3	36.4	10.7	346	273 - 410	19	113.8	7.0	6.2	114	91 - 137
Bayer Contour	85	173.9	21.4	12.3	167	139 - 209	88	74.1	6.1	8.2	72	59 - 89
HemoCue 201	40	224.1	5.2	2.3	225	179 - 269	41	123.5	5.2	4.2	123	98 - 149
Home Diagnostics TrueTrack / TrueBalance	18	529.9	10.9	2.1	529	423 - 636	19	264.9	13.2	5.0	265	211 - 318
Lifescan One Touch Ultra/2/Mini	50	243.4	10.4	4.3	243	194 - 293	50	99.4	5.4	5.5	99	79 - 120
Medisense Precis. Xtra/Optium	10	258.2	13.8	5.4	265	206 - 310	10	100.2	6.4	6.4	101	80 - 121
Medisense Precision XceedPro	20	232.7	11.1	4.8	234	186 - 280	19	93.7	3.4	3.7	94	74 - 113
NOVA Biomedical StatStrip	19	187.4	11.0	5.9	185	149 - 225	19	82.2	3.9	4.8	82	65 - 99
PSS Quintet Glucose Monitoring System	14	226.4	16.4	7.2	222	181 - 272	14	91.9	10.2	11.0	90	73 - 111
Roche Accu-Chek Advantage/Comp/GTS	37	189.0	9.0	4.8	189	151 - 227	36	73.7	4.0	5.5	74	58 - 89
Roche Accu-Chek Aviva	40	201.1	9.5	4.7	201	160 - 242	39	87.5	5.9	6.7	88	69 - 105
Roche Accu-Chek Inform II	11	211.2	5.4	2.6	212	168 - 254	11	92.6	2.4	2.6	92	74 - 112
Specimen WBG-3							Specimen WBG-4					
All Method	22	208.3	24.9	12.0	211	166 - 250	23	335.4	33.9	10.1	335	268 - 403
All Bayer Methods	1	-	-	-	138	110 - 166	1	-	-	-	244	195 - 293
All Lifescan Methods	15	214.8	13.3	6.2	217	171 - 258	15	345.9	20.1	5.8	349	276 - 416
All Medisense Methods	1	-	-	-	237	189 - 285	1	-	-	-	394	315 - 473
All Roche Methods	1	-	-	-	184	147 - 221	1	-	-	-	308	246 - 370
Bayer Contour	1	-	-	-	138	166 - 250	1	-	-	-	244	268 - 403
Home Diagnostics TrueTrack / TrueBalance	1	-	-	-	464	Not graded	1	-	-	-	600	Not graded
Lifescan One Touch Ultra/2/Mini	13	215.7	13.4	6.2	217	172 - 259	13	348.4	20.0	5.7	349	278 - 419
Medisense Precis. Xtra/Optium	1	-	-	-	237	166 - 250	1	-	-	-	394	268 - 403
PSS Quintet Glucose Monitoring System	1	-	-	-	553	166 - 250	1	-	-	-	335	268 - 403
Roche Accu-Chek Aviva	1	-	-	-	184	166 - 250	1	-	-	-	308	268 - 403
Specimen WBG-5												
All Method	23	175.5	23.4	13.3	182	140 - 211						
All Bayer Methods	1	-	-	-	112	89 - 135						
All Lifescan Methods	15	183.2	11.4	6.2	182	146 - 220						
All Medisense Methods	1	-	-	-	191	152 - 230						
All Roche Methods	1	-	-	-	153	122 - 184						
Bayer Contour	1	-	-	-	112	140 - 211						
Home Diagnostics TrueTrack / TrueBalance	1	-	-	-	401	Not graded						
Lifescan One Touch Ultra/2/Mini	13	184.2	11.8	6.4	186	147 - 221						
Medisense Precis. Xtra/Optium	1	-	-	-	191	140 - 211						
PSS Quintet Glucose Monitoring System	1	-	-	-	149	140 - 211						
Roche Accu-Chek Aviva	1	-	-	-	153	140 - 211						

Fructosamine (mmol/L)

<u>Method</u>	Specimen FR-1						Specimen FR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.49	0.149	10.0	1.5	1.04 - 1.94	5	0.286	0.126	44.1	0.23	0.00 - 0.68

Fructosamine (μmol/L)

<u>Method</u>	Specimen FR-1						Specimen FR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	903.0	195.8	21.7	822	632 - 1174	5	113.0	13.3	11.8	106	68 - 158

d-Dimer (ng/mL)

<u>Method</u>	Specimen DMR-1						Specimen DMR-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1175.0	400.6	34.1	1192	373 - 1977	5	1764.8	604.2	34.2	1824	556 - 2974

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