

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2017 MLE-M3



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

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EVALUATION CRITERIA

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

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

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	140.4	0.7	0.5	140	136 - 145	101	149.5	0.6	0.4	149	145 - 154
All i-STAT Instruments	105	140.4	0.7	0.5	140	136 - 145	101	149.5	0.6	0.4	149	145 - 154
i-STAT - moderate	10	140.8	0.6	0.4	141	136 - 145	10	149.5	1.0	0.7	149	145 - 154
i-STAT - waived	95	140.4	0.7	0.5	140	136 - 145	92	149.5	0.7	0.4	149	145 - 154

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	166.8	0.8	0.5	167	162 - 171	88	145.1	0.5	0.3	145	141 - 150
All i-STAT Instruments	89	166.8	0.8	0.5	167	162 - 171	88	145.1	0.5	0.3	145	141 - 150
i-STAT - moderate	10	166.7	1.2	0.7	167	162 - 171	10	145.0	0.5	0.3	145	141 - 149
i-STAT - waived	78	166.7	0.7	0.4	167	162 - 171	81	145.2	0.6	0.4	145	141 - 150

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	140.5	0.7	0.5	140	136 - 145
All i-STAT Instruments	90	140.5	0.7	0.5	140	136 - 145
i-STAT - moderate	10	140.4	0.7	0.5	140	136 - 145
i-STAT - waived	80	140.5	0.7	0.5	140	136 - 145

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	3.80	0.01	0.0	3.8	3.3 - 4.3	105	6.19	0.04	0.7	6.2	5.6 - 6.7
All i-STAT Instruments	101	3.80	0.01	0.0	3.8	3.3 - 4.3	105	6.19	0.04	0.7	6.2	5.6 - 6.7
i-STAT - moderate	11	3.80	0.01	0.0	3.8	3.3 - 4.3	11	6.20	0.04	0.7	6.2	5.7 - 6.7
i-STAT - waived	90	3.80	0.01	0.0	3.8	3.3 - 4.3	94	6.19	0.04	0.7	6.2	5.6 - 6.7

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	6.84	0.06	0.8	6.8	6.3 - 7.4	82	4.10	0.01	0.0	4.1	3.6 - 4.6
All i-STAT Instruments	91	6.84	0.06	0.8	6.8	6.3 - 7.4	82	4.10	0.01	0.0	4.1	3.6 - 4.6
i-STAT - moderate	11	6.84	0.07	1.0	6.8	6.3 - 7.4	11	4.12	0.04	1.0	4.1	3.6 - 4.7
i-STAT - waived	80	6.84	0.05	0.8	6.8	6.3 - 7.4	73	4.10	0.01	0.0	4.1	3.6 - 4.6

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	87	3.80	0.01	0.0	3.8	3.3 - 4.3
All i-STAT Instruments	87	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - moderate	11	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - waived	76	3.80	0.01	0.0	3.8	3.3 - 4.3

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	87.0	0.7	0.8	87	82 - 92	104	105.2	0.8	0.7	105	99 - 111
All i-STAT Instruments	102	87.0	0.7	0.8	87	82 - 92	104	105.2	0.8	0.7	105	99 - 111
i-STAT - moderate	11	86.7	0.8	0.9	87	82 - 92	11	105.1	0.7	0.7	105	99 - 111
i-STAT - waived	91	87.0	0.7	0.8	87	82 - 92	93	105.2	0.8	0.7	105	99 - 111

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	108.1	0.7	0.7	108	102 - 114	88	80.5	0.7	0.9	80	76 - 85
All i-STAT Instruments	88	108.1	0.7	0.7	108	102 - 114	88	80.5	0.7	0.9	80	76 - 85
i-STAT - moderate	11	108.1	1.4	1.3	108	102 - 114	11	80.5	1.1	1.4	80	76 - 85
i-STAT - waived	79	108.1	0.7	0.7	108	102 - 114	78	80.5	0.7	0.9	81	76 - 85

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	86.8	0.6	0.7	87	82 - 92
All i-STAT Instruments	88	86.8	0.6	0.7	87	82 - 92
i-STAT - moderate	11	86.7	1.1	1.3	87	82 - 92
i-STAT - waived	78	86.8	0.6	0.7	87	82 - 92

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	26.5	1.0	3.7	27	21 - 32	98	18.8	0.7	3.9	19	15 - 23
All i-STAT Instruments	95	26.5	1.0	3.7	27	21 - 32	98	18.8	0.7	3.9	19	15 - 23
i-STAT - waived	87	26.4	1.0	3.8	26	21 - 32	90	18.8	0.7	3.9	19	15 - 23

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	26.3	0.9	3.3	26	21 - 32	88	22.7	0.9	4.1	23	18 - 28
All i-STAT Instruments	88	26.3	0.9	3.3	26	21 - 32	88	22.7	0.9	4.1	23	18 - 28
i-STAT - waived	79	26.3	0.8	2.9	26	21 - 32	79	22.7	0.9	4.0	23	18 - 28

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	84	26.4	0.9	3.3	26	21 - 32
All i-STAT Instruments	84	26.4	0.9	3.3	26	21 - 32
i-STAT - waived	75	26.4	0.9	3.4	26	21 - 32

Urea Nitrogen (BUN) (mg/dL)

Specimen IST-11							Specimen IST-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	61.3	1.1	1.8	61	55 - 67	104	22.5	0.5	2.4	22	20 - 25
All i-STAT Instruments	103	61.3	1.1	1.8	61	55 - 67	104	22.5	0.5	2.4	22	20 - 25
i-STAT - moderate	10	61.5	0.7	1.1	62	55 - 68	10	22.5	0.5	2.3	23	20 - 25
i-STAT - waived	93	61.2	1.2	1.9	61	55 - 67	94	22.4	0.5	2.4	22	20 - 25
Specimen IST-13							Specimen IST-14					
All Method	89	17.9	0.4	2.1	18	15 - 20	89	36.7	0.7	1.9	37	33 - 40
All i-STAT Instruments	89	17.9	0.4	2.1	18	15 - 20	89	36.7	0.7	1.9	37	33 - 40
i-STAT - moderate	10	17.7	0.7	3.8	18	15 - 20	10	36.6	0.8	2.3	37	33 - 40
i-STAT - waived	71	18.0	0.1	0.0	18	16 - 20	79	36.7	0.7	1.8	37	33 - 40
Specimen IST-15												
All Method	88	61.5	0.9	1.5	62	55 - 68						
All i-STAT Instruments	88	61.5	0.9	1.5	62	55 - 68						
i-STAT - moderate	10	61.5	0.8	1.4	62	55 - 68						
i-STAT - waived	78	61.5	1.0	1.6	62	56 - 68						

Glucose (mg/dL)

Specimen IST-11							Specimen IST-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	138.8	1.2	0.9	139	124 - 153	102	81.2	1.0	1.2	81	73 - 90
All i-STAT Instruments	104	138.8	1.2	0.9	139	124 - 153	102	81.2	1.0	1.2	81	73 - 90
i-STAT - moderate	10	138.4	1.5	1.1	138	124 - 153	10	81.1	1.5	1.9	81	72 - 90
i-STAT - waived	94	138.8	1.2	0.8	139	124 - 153	93	81.2	1.0	1.2	81	73 - 90
Specimen IST-13							Specimen IST-14					
All Method	87	65.4	0.9	1.4	65	58 - 72	87	122.4	1.1	0.9	122	110 - 135
All i-STAT Instruments	87	65.4	0.9	1.4	65	58 - 72	87	122.4	1.1	0.9	122	110 - 135
i-STAT - moderate	10	65.4	1.6	2.4	65	58 - 72	10	122.4	1.4	1.2	122	110 - 135
i-STAT - waived	78	65.4	0.9	1.4	65	58 - 72	78	122.4	1.1	0.9	123	110 - 135
Specimen IST-15												
All Method	90	138.6	1.1	0.8	139	124 - 153						
All i-STAT Instruments	90	138.6	1.1	0.8	139	124 - 153						
i-STAT - moderate	10	137.9	0.9	0.6	138	124 - 152						
i-STAT - waived	80	138.7	1.1	0.8	139	124 - 153						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	25.8	0.7	2.6	26	24 - 28	17	28.2	0.6	2.0	28	26 - 30
All i-STAT Instruments	17	25.8	0.7	2.6	26	24 - 28	17	28.2	0.6	2.0	28	26 - 30
i-STAT - waived	16	25.8	0.7	2.7	26	24 - 28	16	28.3	0.6	2.0	28	26 - 30
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	37.7	0.8	2.0	38	35 - 40	17	35.6	0.8	2.2	35	33 - 38
All i-STAT Instruments	17	37.7	0.8	2.0	38	35 - 40	17	35.6	0.8	2.2	35	33 - 38
i-STAT - waived	16	37.8	0.8	2.0	38	35 - 41	16	35.7	0.8	2.3	36	33 - 38
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	25.9	0.7	2.7	26	24 - 28						
All i-STAT Instruments	17	25.9	0.7	2.7	26	24 - 28						
i-STAT - waived	16	26.0	0.6	2.4	26	24 - 28						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	8.74	0.22	2.6	8.8	8.1 - 9.4	17	9.60	0.21	2.2	9.5	8.9 - 10.3
All i-STAT Instruments	17	8.74	0.22	2.6	8.8	8.1 - 9.4	17	9.60	0.21	2.2	9.5	8.9 - 10.3
i-STAT - waived	16	8.74	0.23	2.6	8.8	8.1 - 9.4	16	9.61	0.22	2.3	9.5	8.9 - 10.3
	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	12.83	0.26	2.0	12.9	11.9 - 13.8	17	12.09	0.27	2.2	11.9	11.2 - 13.0
All i-STAT Instruments	17	12.83	0.26	2.0	12.9	11.9 - 13.8	17	12.09	0.27	2.2	11.9	11.2 - 13.0
i-STAT - waived	16	12.87	0.26	2.0	12.9	11.9 - 13.8	16	12.12	0.28	2.3	12.1	11.2 - 13.0
	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	8.77	0.24	2.7	8.8	8.1 - 9.4						
All i-STAT Instruments	17	8.77	0.24	2.7	8.8	8.1 - 9.4						
i-STAT - waived	16	8.82	0.22	2.5	8.8	8.1 - 9.5						

Creatinine (mg/dL)

Specimen IST-11							Specimen IST-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	113	5.99	0.22	3.7	6.0	5.0 - 6.9	114	1.13	0.05	4.1	1.1	0.8 - 1.5
All i-STAT Instruments	113	5.99	0.22	3.7	6.0	5.0 - 6.9	114	1.13	0.05	4.1	1.1	0.8 - 1.5
i-STAT - moderate	11	6.04	0.20	3.3	6.1	5.1 - 7.0	11	1.14	0.05	4.4	1.1	0.8 - 1.5
i-STAT - waived	102	5.99	0.22	3.7	6.0	5.0 - 6.9	103	1.13	0.05	4.1	1.1	0.8 - 1.5
Specimen IST-13							Specimen IST-14					
All Method	89	0.78	0.05	5.9	0.8	0.4 - 1.1	90	1.65	0.06	3.8	1.6	1.3 - 2.0
All i-STAT Instruments	89	0.78	0.05	5.9	0.8	0.4 - 1.1	90	1.65	0.06	3.8	1.6	1.3 - 2.0
i-STAT - moderate	11	0.77	0.05	6.0	0.8	0.4 - 1.1	11	1.64	0.05	3.1	1.6	1.3 - 2.0
i-STAT - waived	78	0.78	0.05	5.9	0.8	0.4 - 1.1	79	1.65	0.06	3.9	1.6	1.3 - 2.0
Specimen IST-15												
All Method	88	6.00	0.18	3.0	6.0	5.1 - 7.0						
All i-STAT Instruments	88	6.00	0.18	3.0	6.0	5.1 - 7.0						
i-STAT - moderate	11	5.99	0.30	5.0	6.1	5.0 - 6.9						
i-STAT - waived	78	5.99	0.18	3.0	6.0	5.0 - 6.9						

Ionized Calcium (mmol/L)

Specimen IST-11							Specimen IST-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	2.169	0.019	0.9	2.17	2.11 - 2.23	94	0.786	0.008	1.0	0.79	0.76 - 0.81
All i-STAT Instruments	95	2.169	0.019	0.9	2.17	2.11 - 2.23	94	0.786	0.008	1.0	0.79	0.76 - 0.81
i-STAT - waived	88	2.170	0.021	1.0	2.17	2.10 - 2.24	86	0.786	0.008	1.0	0.79	0.76 - 0.81
Specimen IST-13							Specimen IST-14					
All Method	85	0.907	0.011	1.2	0.91	0.87 - 0.94	83	1.436	0.015	1.0	1.44	1.39 - 1.49
All i-STAT Instruments	85	0.907	0.011	1.2	0.91	0.87 - 0.94	83	1.436	0.015	1.0	1.44	1.39 - 1.49
i-STAT - waived	77	0.908	0.011	1.2	0.91	0.87 - 0.95	75	1.436	0.015	1.1	1.44	1.39 - 1.49
Specimen IST-15												
All Method	81	2.175	0.020	0.9	2.17	2.11 - 2.24						
All i-STAT Instruments	81	2.175	0.020	0.9	2.17	2.11 - 2.24						
i-STAT - waived	74	2.177	0.022	1.0	2.17	2.11 - 2.25						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	261	3.37	0.43	12.7	3.5	3.0 - 3.8	261	2.18	0.20	9.1	2.2	1.9 - 2.5
All Bromocresol Green Reagents	182	3.61	0.16	4.5	3.6	3.2 - 4.0	185	2.27	0.16	6.9	2.3	2.0 - 2.5
All Bromocresol Purple Reagents	73	2.75	0.10	3.6	2.7	2.4 - 3.1	74	1.96	0.08	4.1	2.0	1.7 - 2.2
Abaxis Piccolo												
Abaxis Piccolo - waived	22	2.68	0.08	3.0	2.7	2.4 - 3.0	22	1.97	0.08	4.2	2.0	1.7 - 2.2
All Chemistry Instruments	29	2.69	0.09	3.2	2.7	2.4 - 3.0	29	1.98	0.08	4.2	2.0	1.7 - 2.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	3.57	0.09	2.6	3.6	3.2 - 4.0	28	2.33	0.05	2.2	2.3	2.0 - 2.6
Beckman AU												
Beckman AU systems	36	3.64	0.10	2.6	3.6	3.2 - 4.0	36	2.26	0.08	3.6	2.3	2.0 - 2.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	3.59	0.09	2.6	3.6	3.2 - 4.0	19	2.38	0.06	2.5	2.4	2.1 - 2.7
Roche Integra												
Roche Integra	17	3.85	0.09	2.5	3.8	3.4 - 4.3	18	2.42	0.10	4.1	2.4	2.1 - 2.7
Siemens Healthcare												
Siemens Dimension	37	2.78	0.07	2.6	2.8	2.5 - 3.1	37	1.93	0.07	3.4	1.9	1.7 - 2.2
All Chemistry Instruments	39	2.79	0.07	2.6	2.8	2.5 - 3.1	39	1.94	0.07	3.7	1.9	1.7 - 2.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	3.63	0.15	4.2	3.6	3.2 - 4.0	15	2.38	0.10	4.3	2.4	2.1 - 2.7
VITROS												
VITROS 250,350,500,700,750,950	36	3.48	0.13	3.8	3.5	3.1 - 3.9	37	2.07	0.07	3.6	2.1	1.8 - 2.3
All Chemistry Instruments	43	3.48	0.12	3.6	3.5	3.1 - 3.9	44	2.06	0.08	3.7	2.1	1.8 - 2.3

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	242	2.45	0.23	9.4	2.5	2.2 - 2.8	242	3.18	0.35	11.0	3.3	2.8 - 3.6
All Bromocresol Green Reagents	183	2.55	0.16	6.1	2.6	2.2 - 2.9	183	3.35	0.16	4.7	3.3	3.0 - 3.7
All Bromocresol Purple Reagents	55	2.13	0.09	4.1	2.1	1.9 - 2.4	55	2.61	0.09	3.5	2.6	2.3 - 2.9
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	2.2	1.9 - 2.4	4	-	-	-	2.5	2.3 - 2.9
All Chemistry Instruments	10	2.17	0.09	4.4	2.2	1.9 - 2.4	10	2.56	0.11	4.2	2.6	2.3 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	2.57	0.06	2.5	2.6	2.3 - 2.9	29	3.31	0.08	2.3	3.3	2.9 - 3.7
Beckman AU												
Beckman AU systems	36	2.55	0.09	3.7	2.5	2.2 - 2.9	36	3.37	0.10	3.0	3.4	3.0 - 3.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.64	0.09	3.3	2.6	2.3 - 2.9	20	3.39	0.12	3.6	3.4	3.0 - 3.8
Roche Integra												
Roche Integra	17	2.72	0.07	2.4	2.7	2.4 - 3.0	17	3.57	0.09	2.6	3.6	3.2 - 4.0
Siemens Healthcare												
Siemens Dimension	37	2.11	0.07	3.3	2.1	1.8 - 2.4	37	2.61	0.08	3.1	2.6	2.3 - 2.9
All Chemistry Instruments	39	2.11	0.07	3.4	2.1	1.8 - 2.4	39	2.61	0.08	3.1	2.6	2.3 - 2.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	2.67	0.13	5.0	2.7	2.4 - 3.0	15	3.39	0.15	4.3	3.4	3.0 - 3.8
VITROS												
VITROS 250,350,500,700,750,950	36	2.36	0.09	3.8	2.4	2.1 - 2.7	37	3.22	0.14	4.2	3.2	2.8 - 3.6
All Chemistry Instruments	43	2.35	0.09	3.9	2.4	2.1 - 2.6	43	3.20	0.12	3.6	3.2	2.8 - 3.6

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	242	3.90	0.47	12.2	4.1	3.5 - 4.3
All Bromocresol Green Reagents	182	4.13	0.17	4.2	4.1	3.7 - 4.6
All Bromocresol Purple Reagents	54	3.09	0.09	3.0	3.1	2.7 - 3.4
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	3.0	2.7 - 3.4
All Chemistry Instruments	10	3.03	0.08	2.7	3.0	2.7 - 3.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	28	4.05	0.07	1.7	4.1	3.6 - 4.5
Beckman AU						
Beckman AU systems	36	4.14	0.11	2.7	4.1	3.7 - 4.6
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.03	0.10	2.4	4.0	3.6 - 4.5
Roche Integra						
Roche Integra	17	4.37	0.11	2.5	4.3	3.9 - 4.9
Siemens Healthcare						
Siemens Dimension	37	3.10	0.08	2.7	3.1	2.7 - 3.5
All Chemistry Instruments	39	3.10	0.08	2.7	3.1	2.7 - 3.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	4.07	0.16	4.0	4.1	3.6 - 4.5
VITROS						
VITROS 250,350,500,700,750,950	37	4.20	0.18	4.3	4.2	3.7 - 4.7
All Chemistry Instruments	44	4.18	0.18	4.3	4.2	3.7 - 4.6

Bilirubin, Direct (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	160	0.78	0.31	39.2	0.9	0.1 - 1.4	162	0.29	0.14	48.0	0.3	0.0 - 0.6
All Alfa Wassermann Reagents	21	1.10	0.11	9.8	1.1	0.8 - 1.4	21	0.41	0.04	10.7	0.4	0.3 - 0.5
All Roche Reagents	20	0.57	0.07	11.9	0.6	0.4 - 0.7	19	0.20	0.01	0.0	0.2	0.1 - 0.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	1.10	0.11	9.8	1.1	0.8 - 1.4	21	0.41	0.04	10.7	0.4	0.3 - 0.5
Beckman AU												
Beckman AU systems	28	0.85	0.10	11.8	0.9	0.6 - 1.1	29	0.33	0.06	18.1	0.3	0.2 - 0.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	12	0.99	0.10	10.0	1.0	0.7 - 1.2	12	0.35	0.05	14.9	0.4	0.2 - 0.5
Roche Integra												
Roche Integra	13	0.59	0.06	10.8	0.6	0.4 - 0.8	12	0.20	0.01	0.0	0.2	0.1 - 0.3
Siemens Healthcare												
Siemens Dimension	27	0.54	0.07	12.8	0.5	0.4 - 0.7	27	0.17	0.04	25.7	0.2	0.0 - 0.3
All Chemistry Instruments	29	0.55	0.07	13.4	0.6	0.4 - 0.7	29	0.18	0.04	24.8	0.2	0.0 - 0.3
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	22	0.76	0.54	70.4	0.9	0.0 - 1.9	22	0.35	0.29	82.7	0.4	0.0 - 1.0
All Chemistry Instruments	25	0.79	0.51	64.3	0.9	0.0 - 1.9	25	0.34	0.27	80.1	0.4	0.0 - 0.9

Specimen CH-13							Specimen CH-14					
<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	161	0.39	0.18	45.8	0.4	0.0 - 0.8	161	0.67	0.27	40.6	0.7	0.1 - 1.3
All Alfa Wassermann Reagents	21	0.55	0.05	9.3	0.6	0.4 - 0.7	21	0.94	0.11	11.4	0.9	0.7 - 1.2
All Roche Reagents	20	0.27	0.05	18.5	0.3	0.1 - 0.4	20	0.48	0.06	11.6	0.5	0.3 - 0.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	0.55	0.05	9.3	0.6	0.4 - 0.7	21	0.94	0.11	11.4	0.9	0.7 - 1.2
Beckman AU												
Beckman AU systems	29	0.44	0.09	20.5	0.4	0.2 - 0.7	29	0.72	0.12	16.3	0.7	0.4 - 1.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	0.48	0.06	12.5	0.5	0.3 - 0.7	12	0.83	0.08	9.3	0.8	0.6 - 1.0
Roche Integra												
Roche Integra	13	0.26	0.05	19.4	0.3	0.1 - 0.4	13	0.49	0.05	10.0	0.5	0.3 - 0.6
Siemens Healthcare												
Siemens Dimension	27	0.24	0.06	23.6	0.2	0.1 - 0.4	27	0.46	0.07	15.3	0.5	0.3 - 0.6
All Chemistry Instruments	29	0.25	0.06	23.1	0.3	0.1 - 0.4	29	0.46	0.07	15.7	0.5	0.3 - 0.7
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	22	0.40	0.33	82.4	0.5	0.0 - 1.1	22	0.65	0.47	72.9	0.8	0.0 - 1.6
All Chemistry Instruments	25	0.39	0.31	79.6	0.5	0.0 - 1.1	25	0.68	0.45	66.9	0.8	0.0 - 1.6

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	163	0.97	0.38	39.1	1.0	0.2 - 1.8
All Alfa Wassermann Reagents	21	1.33	0.12	9.3	1.3	1.0 - 1.6
All Roche Reagents	20	0.71	0.09	12.6	0.7	0.5 - 0.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	1.33	0.12	9.3	1.3	1.0 - 1.6
Beckman AU						
Beckman AU systems	29	1.01	0.13	13.1	1.0	0.7 - 1.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	12	1.22	0.12	9.8	1.2	0.9 - 1.5
Roche Integra						
Roche Integra	13	0.75	0.07	8.8	0.7	0.6 - 0.9
Siemens Healthcare						
Siemens Dimension	26	0.67	0.09	13.2	0.7	0.4 - 0.9
All Chemistry Instruments	28	0.68	0.10	14.4	0.7	0.4 - 0.9
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	22	0.93	0.57	61.2	1.1	0.0 - 2.1
All Chemistry Instruments	25	0.98	0.55	56.3	1.2	0.0 - 2.1

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	258	2.80	0.27	9.6	2.8	2.2 - 3.4	259	0.80	0.12	14.6	0.8	0.4 - 1.3
All Alfa Wassermann Reagents	35	3.17	0.14	4.3	3.2	2.5 - 3.9	35	0.94	0.07	7.4	0.9	0.5 - 1.4
All Horiba Pentra Reagents	20	2.82	0.17	6.0	2.8	2.2 - 3.4	20	0.76	0.08	10.9	0.8	0.3 - 1.2
All Roche T. bili Special Reagents	24	2.50	0.15	6.0	2.5	1.9 - 3.0	24	0.69	0.07	9.9	0.7	0.2 - 1.1
All Vital Diagnostics Reagents	16	2.63	0.24	9.2	2.7	2.1 - 3.2	16	0.70	0.12	17.3	0.7	0.3 - 1.1
Abaxis Piccolo												
Abaxis Piccolo - waived	21	2.57	0.11	4.3	2.6	2.0 - 3.1	22	0.84	0.07	8.7	0.8	0.4 - 1.3
All Chemistry Instruments	28	2.58	0.11	4.1	2.6	2.0 - 3.1	29	0.85	0.07	8.7	0.8	0.4 - 1.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	3.17	0.14	4.3	3.2	2.5 - 3.9	34	0.94	0.07	7.4	0.9	0.5 - 1.4
Beckman AU												
Beckman AU systems	36	2.85	0.16	5.7	2.9	2.2 - 3.5	36	0.84	0.07	8.2	0.9	0.4 - 1.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	2.82	0.18	6.2	2.8	2.2 - 3.4	19	0.75	0.08	11.2	0.7	0.3 - 1.2
All Chemistry Instruments	20	2.82	0.17	6.0	2.8	2.2 - 3.4	20	0.76	0.08	10.9	0.8	0.3 - 1.2
Roche Integra-T. bili Gen.3												
Roche Integra	13	2.48	0.15	6.0	2.5	1.9 - 3.0	13	0.68	0.08	12.3	0.7	0.2 - 1.1
All Chemistry Instruments	15	2.49	0.14	5.8	2.5	1.9 - 3.0	15	0.68	0.08	11.4	0.7	0.2 - 1.1
Siemens Healthcare												
Siemens Dimension	35	2.67	0.13	5.0	2.7	2.1 - 3.3	36	0.73	0.09	12.9	0.7	0.3 - 1.2
All Chemistry Instruments	37	2.68	0.13	4.9	2.7	2.1 - 3.3	38	0.72	0.09	13.0	0.7	0.3 - 1.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	2.63	0.24	9.2	2.7	2.1 - 3.2	16	0.70	0.12	17.3	0.7	0.3 - 1.1
VITROS - TBIL												
VITROS 250,350,500,700,750,950	35	2.99	0.20	6.7	3.0	2.3 - 3.6	35	0.84	0.10	11.6	0.8	0.4 - 1.3
All Chemistry Instruments	42	2.98	0.19	6.4	3.0	2.3 - 3.6	42	0.82	0.11	13.0	0.8	0.4 - 1.3

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	241	1.19	0.14	11.7	1.2	0.7 - 1.6	237	2.39	0.23	9.7	2.4	1.9 - 2.9
All Alfa Wassermann Reagents	35	1.38	0.08	5.6	1.4	0.9 - 1.8	35	2.68	0.13	5.0	2.7	2.1 - 3.3
All Horiba Pentra Reagents	20	1.16	0.12	10.2	1.2	0.7 - 1.6	20	2.37	0.14	6.0	2.3	1.8 - 2.9
All Roche T. bili Special Reagents	24	1.03	0.06	6.1	1.0	0.6 - 1.5	24	2.04	0.23	11.3	2.1	1.6 - 2.5
All Vital Diagnostics Reagents	17	1.09	0.11	9.9	1.1	0.6 - 1.5	16	2.24	0.24	10.8	2.2	1.7 - 2.7
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	1.2	0.8 - 1.6	4	-	-	-	2.3	1.7 - 2.7
All Chemistry Instruments	10	1.20	0.07	5.6	1.2	0.8 - 1.6	10	2.24	0.11	4.8	2.3	1.7 - 2.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	1.38	0.08	5.7	1.4	0.9 - 1.8	34	2.68	0.14	5.1	2.7	2.1 - 3.3
Beckman AU												
Beckman AU systems	35	1.25	0.07	5.6	1.3	0.8 - 1.7	36	2.44	0.15	6.1	2.5	1.9 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	1.16	0.12	10.5	1.1	0.7 - 1.6	19	2.37	0.14	6.1	2.3	1.8 - 2.9
All Chemistry Instruments	20	1.16	0.12	10.2	1.2	0.7 - 1.6	20	2.37	0.14	6.0	2.3	1.8 - 2.9
Roche Integra-T. bili Gen.3												
Roche Integra	13	1.02	0.06	5.9	1.0	0.6 - 1.5	13	2.03	0.21	10.5	2.0	1.6 - 2.5
All Chemistry Instruments	15	1.03	0.06	5.8	1.0	0.6 - 1.5	15	2.00	0.24	12.1	2.0	1.6 - 2.4
Siemens Healthcare												
Siemens Dimension	37	1.10	0.11	9.9	1.1	0.7 - 1.6	37	2.24	0.17	7.4	2.2	1.7 - 2.7
All Chemistry Instruments	39	1.10	0.11	9.9	1.1	0.7 - 1.6	39	2.24	0.16	7.4	2.2	1.7 - 2.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	1.09	0.11	10.3	1.1	0.6 - 1.5	16	2.24	0.24	10.8	2.2	1.7 - 2.7
VITROS - TBIL												
VITROS 250,350,500,700,750,950	35	1.26	0.10	8.0	1.3	0.8 - 1.7	35	2.49	0.18	7.4	2.5	1.9 - 3.0
All Chemistry Instruments	42	1.25	0.10	8.0	1.3	0.8 - 1.7	42	2.50	0.18	7.2	2.5	2.0 - 3.0

Bilirubin, Total (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	240	3.58	0.33	9.4	3.6	2.8 - 4.3
All Alfa Wassermann Reagents	35	4.01	0.18	4.5	4.0	3.2 - 4.9
All Horiba Pentra Reagents	20	3.58	0.21	5.9	3.5	2.8 - 4.3
All Roche T. bili Special Reagents	24	3.17	0.16	5.0	3.2	2.5 - 3.9
All Vital Diagnostics Reagents	16	3.37	0.32	9.6	3.3	2.6 - 4.1
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	3.4	2.6 - 4.0
All Chemistry Instruments	10	3.33	0.13	4.0	3.4	2.6 - 4.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	34	4.01	0.18	4.5	4.0	3.2 - 4.9
Beckman AU						
Beckman AU systems	36	3.59	0.22	6.0	3.7	2.8 - 4.4
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	3.58	0.21	6.0	3.5	2.8 - 4.3
All Chemistry Instruments	20	3.58	0.21	5.9	3.5	2.8 - 4.3
Roche Integra-T. bili Gen.3						
Roche Integra	13	3.14	0.15	4.8	3.1	2.5 - 3.8
All Chemistry Instruments	15	3.15	0.14	4.5	3.2	2.5 - 3.8
Siemens Healthcare						
Siemens Dimension	37	3.39	0.23	6.8	3.4	2.7 - 4.1
All Chemistry Instruments	38	3.41	0.20	5.8	3.4	2.7 - 4.1
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	3.37	0.32	9.6	3.3	2.6 - 4.1
VITROS - TBIL						
VITROS 250,350,500,700,750,950	35	3.75	0.25	6.6	3.7	2.9 - 4.5
All Chemistry Instruments	42	3.76	0.25	6.6	3.8	3.0 - 4.6

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	263	11.02	0.29	2.7	11.0	10.0 - 12.1	263	7.75	0.24	3.1	7.8	6.7 - 8.8
All Arsenazo Methods	136	10.99	0.30	2.7	11.0	9.9 - 12.0	136	7.76	0.27	3.5	7.8	6.7 - 8.8
All CPC Methods	122	11.06	0.29	2.6	11.1	10.0 - 12.1	120	7.73	0.20	2.6	7.7	6.7 - 8.8
Abaxis Piccolo												
Abaxis Piccolo - waived	22	11.14	0.23	2.0	11.1	10.1 - 12.2	22	7.84	0.26	3.4	7.9	6.8 - 8.9
All Chemistry Instruments	28	11.07	0.28	2.6	11.1	10.0 - 12.1	28	7.83	0.29	3.7	7.9	6.8 - 8.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	35	10.94	0.25	2.3	10.9	9.9 - 12.0	34	7.91	0.13	1.7	7.9	6.9 - 9.0
Beckman AU												
Beckman AU systems	38	11.01	0.26	2.4	11.0	10.0 - 12.1	38	7.74	0.22	2.8	7.8	6.7 - 8.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	11.18	0.38	3.4	11.3	10.1 - 12.2	18	7.66	0.26	3.4	7.7	6.6 - 8.7
Roche Integra												
Roche Integra	18	11.24	0.22	2.0	11.2	10.2 - 12.3	18	7.82	0.16	2.1	7.8	6.8 - 8.9
Siemens Healthcare												
Siemens Dimension	37	10.92	0.25	2.3	10.9	9.9 - 12.0	37	7.66	0.20	2.6	7.7	6.6 - 8.7
All Chemistry Instruments	40	10.92	0.24	2.2	10.9	9.9 - 12.0	40	7.65	0.20	2.6	7.7	6.6 - 8.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	10.56	0.16	1.5	10.5	9.5 - 11.6	16	7.32	0.14	1.9	7.3	6.3 - 8.4
VITROS												
VITROS 250,350,500,700,750,950	36	11.13	0.23	2.0	11.2	10.1 - 12.2	36	7.81	0.19	2.5	7.8	6.8 - 8.9
All Chemistry Instruments	43	11.13	0.23	2.0	11.1	10.1 - 12.2	43	7.82	0.19	2.4	7.8	6.8 - 8.9

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	244	8.43	0.26	3.0	8.5	7.4 - 9.5	243	10.41	0.28	2.7	10.4	9.4 - 11.5
All Arsenazo Methods	117	8.45	0.29	3.4	8.5	7.4 - 9.5	116	10.41	0.30	2.8	10.4	9.4 - 11.5
All CPC Methods	121	8.41	0.22	2.6	8.4	7.4 - 9.5	121	10.41	0.26	2.5	10.4	9.4 - 11.5
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	8.8	7.4 - 9.5	4	-	-	-	10.5	9.4 - 11.5
All Chemistry Instruments	9	-	-	-	8.7	7.6 - 9.7	9	-	-	-	10.4	9.4 - 11.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	36	8.58	0.22	2.6	8.6	7.5 - 9.6	36	10.41	0.26	2.5	10.4	9.4 - 11.5
Beckman AU												
Beckman AU systems	38	8.41	0.21	2.5	8.4	7.4 - 9.5	38	10.37	0.24	2.3	10.4	9.3 - 11.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	18	8.38	0.29	3.4	8.5	7.3 - 9.4	18	10.51	0.37	3.5	10.6	9.5 - 11.6
Roche Integra												
Roche Integra	18	8.53	0.16	1.9	8.6	7.5 - 9.6	18	10.55	0.19	1.8	10.5	9.5 - 11.6
Siemens Healthcare												
Siemens Dimension	37	8.31	0.22	2.7	8.3	7.3 - 9.4	37	10.28	0.23	2.3	10.3	9.2 - 11.3
All Chemistry Instruments	40	8.31	0.23	2.7	8.3	7.3 - 9.4	40	10.27	0.24	2.3	10.3	9.2 - 11.3
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	7.98	0.15	1.9	8.0	6.9 - 9.0	16	10.01	0.23	2.3	10.0	9.0 - 11.1
VITROS												
VITROS 250,350,500,700,750,950	36	8.51	0.20	2.3	8.5	7.5 - 9.6	36	10.53	0.22	2.1	10.5	9.5 - 11.6
All Chemistry Instruments	43	8.52	0.20	2.3	8.5	7.5 - 9.6	43	10.54	0.22	2.1	10.5	9.5 - 11.6

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	242	12.31	0.33	2.7	12.3	11.3 - 13.4
All Arsenazo Methods	115	12.25	0.32	2.6	12.3	11.2 - 13.3
All CPC Methods	121	12.36	0.33	2.7	12.4	11.3 - 13.4
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	12.3	11.2 - 13.3
All Chemistry Instruments	9	-	-	-	12.3	11.3 - 13.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	35	12.21	0.28	2.3	12.2	11.2 - 13.3
Beckman AU						
Beckman AU systems	38	12.24	0.32	2.6	12.2	11.2 - 13.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	18	12.51	0.41	3.3	12.6	11.5 - 13.6
Roche Integra						
Roche Integra	18	12.52	0.25	2.0	12.5	11.5 - 13.6
Siemens Healthcare						
Siemens Dimension	36	12.29	0.28	2.3	12.3	11.2 - 13.3
All Chemistry Instruments	39	12.28	0.29	2.4	12.3	11.2 - 13.3
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	11.89	0.22	1.8	11.8	10.8 - 12.9
VITROS						
VITROS 250,350,500,700,750,950	36	12.40	0.26	2.1	12.4	11.4 - 13.5
All Chemistry Instruments	43	12.40	0.27	2.2	12.4	11.3 - 13.4

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	260	3.26	0.16	4.9	3.3	2.7 - 3.8	259	1.09	0.10	9.0	1.1	0.7 - 1.4
All Alfa Wassermann Reagents	34	3.30	0.12	3.8	3.3	2.8 - 3.8	35	1.18	0.06	5.2	1.2	0.8 - 1.5
All Roche Reagents	25	3.20	0.13	4.2	3.2	2.7 - 3.7	25	1.06	0.08	7.6	1.1	0.7 - 1.4
All VITROS Reagents	44	3.12	0.12	3.7	3.1	2.6 - 3.6	40	1.00	0.01	0.0	1.0	0.7 - 1.3
Abaxis Piccolo												
Abaxis Piccolo - waived	22	3.35	0.13	3.8	3.4	2.8 - 3.9	22	1.19	0.13	11.0	1.2	0.8 - 1.5
All Chemistry Instruments	28	3.35	0.13	3.9	3.4	2.8 - 3.9	28	1.19	0.13	10.6	1.2	0.8 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	3.29	0.12	3.8	3.3	2.7 - 3.8	34	1.18	0.06	5.3	1.2	0.8 - 1.5
Beckman AU												
Beckman AU systems	38	3.29	0.09	2.7	3.3	2.7 - 3.8	38	1.05	0.05	4.8	1.1	0.7 - 1.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.18	0.19	6.0	3.2	2.6 - 3.7	20	1.01	0.09	8.4	1.0	0.7 - 1.4
Roche Integra												
Roche Integra	18	3.16	0.11	3.6	3.1	2.6 - 3.7	18	1.05	0.06	5.9	1.0	0.7 - 1.4
Siemens Healthcare												
Siemens Dimension	36	3.41	0.08	2.4	3.4	2.8 - 4.0	36	1.15	0.06	4.9	1.1	0.8 - 1.5
All Chemistry Instruments	39	3.41	0.09	2.5	3.4	2.9 - 4.0	38	1.14	0.06	5.6	1.1	0.8 - 1.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	3.11	0.11	3.5	3.1	2.6 - 3.6	16	1.11	0.07	6.5	1.1	0.8 - 1.5
VITROS - CREA												
VITROS 250,350,500,700,750,950	25	3.12	0.12	3.8	3.1	2.6 - 3.6	24	1.00	0.01	0.0	1.0	0.7 - 1.3
All Chemistry Instruments	32	3.11	0.11	3.7	3.1	2.6 - 3.6	29	1.00	0.01	0.0	1.0	0.7 - 1.3
VITROS - CRSC (DT)												
VITROS 250,350,500,700,750,950	10	3.14	0.12	3.7	3.2	2.6 - 3.7	10	1.00	0.01	0.0	1.0	0.7 - 1.3

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	242	1.52	0.09	6.2	1.5	1.2 - 1.9	240	2.82	0.13	4.8	2.8	2.4 - 3.3
All Alfa Wassermann Reagents	35	1.61	0.07	4.5	1.6	1.3 - 2.0	35	2.89	0.12	4.3	2.9	2.4 - 3.4
All Roche Reagents	25	1.52	0.07	4.7	1.5	1.2 - 1.9	25	2.80	0.11	4.1	2.8	2.3 - 3.3
All VITROS Reagents	44	1.41	0.05	3.5	1.4	1.1 - 1.8	44	2.69	0.09	3.3	2.7	2.2 - 3.1
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	1.7	1.2 - 1.9	4	-	-	-	2.9	2.4 - 3.3
All Chemistry Instruments	9	-	-	-	1.7	1.3 - 2.0	9	-	-	-	2.9	2.4 - 3.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	1.61	0.07	4.6	1.6	1.3 - 2.0	34	2.88	0.12	4.3	2.9	2.4 - 3.4
Beckman AU												
Beckman AU systems	38	1.51	0.05	3.4	1.5	1.2 - 1.9	38	2.84	0.07	2.4	2.9	2.4 - 3.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	1.46	0.11	7.5	1.5	1.1 - 1.8	20	2.75	0.18	6.6	2.8	2.3 - 3.2
Roche Integra												
Roche Integra	17	1.49	0.04	2.9	1.5	1.1 - 1.8	18	2.76	0.10	3.5	2.7	2.3 - 3.2
Siemens Healthcare												
Siemens Dimension	36	1.57	0.05	3.3	1.6	1.2 - 1.9	36	2.94	0.07	2.5	2.9	2.4 - 3.4
All Chemistry Instruments	39	1.56	0.06	3.7	1.6	1.2 - 1.9	39	2.94	0.08	2.7	2.9	2.5 - 3.4
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	1.53	0.06	3.8	1.5	1.2 - 1.9	16	2.74	0.10	3.5	2.8	2.3 - 3.2
VITROS - CREA												
VITROS 250,350,500,700,750,950	25	1.41	0.04	3.1	1.4	1.1 - 1.8	25	2.69	0.10	3.7	2.7	2.2 - 3.1
All Chemistry Instruments	32	1.40	0.05	3.4	1.4	1.1 - 1.8	32	2.69	0.09	3.4	2.7	2.2 - 3.1
VITROS - CRSC (DT)												
VITROS 250,350,500,700,750,950	10	1.42	0.04	3.0	1.4	1.1 - 1.8	10	2.68	0.08	2.9	2.7	2.2 - 3.1

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	243	4.10	0.21	5.2	4.1	3.4 - 4.8
All Alfa Wassermann Reagents	36	4.07	0.22	5.3	4.1	3.4 - 4.7
All Roche Reagents	25	3.99	0.22	5.5	3.9	3.3 - 4.6
All VITROS Reagents	44	3.95	0.12	3.2	4.0	3.3 - 4.6
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	4.3	3.4 - 4.8
All Chemistry Instruments	9	-	-	-	4.2	3.5 - 4.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	35	4.06	0.22	5.3	4.1	3.4 - 4.7
Beckman AU						
Beckman AU systems	38	4.14	0.11	2.5	4.1	3.5 - 4.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.02	0.28	6.9	4.0	3.4 - 4.7
Roche Integra						
Roche Integra	18	3.93	0.21	5.2	3.9	3.3 - 4.6
Siemens Healthcare						
Siemens Dimension	36	4.33	0.09	2.0	4.3	3.6 - 5.0
All Chemistry Instruments	39	4.34	0.09	2.1	4.3	3.6 - 5.0
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	3.93	0.11	2.9	3.9	3.3 - 4.6
VITROS - CREA						
VITROS 250,350,500,700,750,950	25	3.93	0.13	3.3	3.9	3.3 - 4.6
All Chemistry Instruments	32	3.93	0.12	3.1	3.9	3.3 - 4.6
VITROS - CRSC (DT)						
VITROS 250,350,500,700,750,950	10	3.97	0.12	2.9	4.0	3.3 - 4.6

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	277	188.3	7.6	4.0	188	169 - 208	275	78.0	3.8	4.9	78	70 - 86
All Alfa Wassermann Reagents	39	194.5	6.0	3.1	194	175 - 214	39	82.7	2.6	3.1	83	74 - 91
All Horiba Pentra Reagents	20	190.1	6.8	3.6	189	171 - 210	20	78.3	2.6	3.4	78	70 - 87
All Roche Reagents	25	190.2	3.9	2.1	189	171 - 210	25	78.1	1.5	2.0	78	70 - 86
All Vital Diagnostics Reagents	16	197.5	8.0	4.1	200	177 - 218	16	82.4	3.9	4.7	83	74 - 91
Abaxis Piccolo												
Abaxis Piccolo - waived	22	183.1	1.4	0.8	183	164 - 202	22	77.0	0.7	0.9	77	69 - 85
All Chemistry Instruments	27	183.0	1.5	0.8	183	164 - 202	27	77.1	0.8	1.0	77	69 - 85
Alere Cholestech LDX												
All Chemistry Instruments	11	179.7	10.9	6.1	176	161 - 198	11	73.1	3.0	4.2	74	65 - 81
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	38	194.6	6.1	3.1	194	175 - 215	38	82.7	2.6	3.1	83	74 - 91
Beckman AU												
Beckman AU systems	38	190.9	4.9	2.6	191	171 - 211	38	78.5	2.1	2.7	78	70 - 87
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	190.1	6.8	3.6	189	171 - 210	20	78.3	2.6	3.4	78	70 - 87
Roche Integra												
Roche Integra	18	190.3	4.4	2.3	189	171 - 210	18	78.2	1.6	2.0	78	70 - 87
Siemens Healthcare												
Siemens Dimension	36	190.3	3.8	2.0	190	171 - 210	36	79.4	1.9	2.3	80	71 - 88
All Chemistry Instruments	39	189.8	4.0	2.1	190	170 - 209	39	79.1	2.1	2.6	80	71 - 88
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	197.5	8.0	4.1	200	177 - 218	16	82.4	3.9	4.7	83	74 - 91
VITROS												
VITROS 250,350,500,700,750,950	37	180.8	3.8	2.1	181	162 - 199	37	73.3	1.6	2.2	73	65 - 81
All Chemistry Instruments	44	180.5	3.9	2.2	181	162 - 199	44	73.1	1.7	2.4	73	65 - 81

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	246	100.5	4.8	4.8	101	90 - 111	246	167.2	7.2	4.3	167	150 - 184
All Alfa Wassermann Reagents	39	105.4	3.2	3.0	105	94 - 116	39	173.5	4.9	2.8	172	156 - 191
All Horiba Pentra Reagents	20	100.3	3.6	3.6	99	90 - 111	20	168.7	5.1	3.0	169	151 - 186
All Roche Reagents	25	100.9	2.3	2.2	101	90 - 112	25	167.8	3.6	2.1	167	151 - 185
All Vital Diagnostics Reagents	17	106.8	5.1	4.8	107	96 - 118	16	176.2	7.3	4.1	179	158 - 194
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	99	90 - 111	4	-	-	-	161	150 - 184
All Chemistry Instruments	8	-	-	-	99	88 - 109	8	-	-	-	161	145 - 178
Alere Cholestech LDX												
All Chemistry Instruments	2	-	-	-	93	83 - 103	2	-	-	-	154	138 - 170
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	38	105.4	3.2	3.1	105	94 - 116	38	173.5	5.0	2.9	173	156 - 191
Beckman AU												
Beckman AU systems	38	100.9	2.5	2.5	101	90 - 111	38	168.5	4.5	2.7	168	151 - 186
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	100.3	3.6	3.6	99	90 - 111	20	168.7	5.1	3.0	169	151 - 186
Roche Integra												
Roche Integra	18	101.0	2.4	2.3	101	90 - 112	18	168.1	3.9	2.3	167	151 - 185
Siemens Healthcare												
Siemens Dimension	36	101.9	2.2	2.1	102	91 - 113	36	168.2	3.8	2.2	169	151 - 185
All Chemistry Instruments	39	101.6	2.5	2.5	101	91 - 112	39	167.6	4.1	2.5	168	150 - 185
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	106.1	4.3	4.1	107	95 - 117	16	176.2	7.3	4.1	179	158 - 194
VITROS												
VITROS 250,350,500,700,750,950	37	93.9	2.0	2.2	94	84 - 104	36	158.4	2.8	1.7	158	142 - 175
All Chemistry Instruments	44	93.5	2.2	2.3	94	84 - 103	44	157.9	3.4	2.2	158	142 - 174

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	246	233.2	8.3	3.5	232	209 - 257
All Alfa Wassermann Reagents	39	240.4	7.3	3.0	239	216 - 265
All Horiba Pentra Reagents	20	234.8	7.4	3.1	234	211 - 259
All Roche Reagents	25	234.0	5.3	2.2	233	210 - 258
All Vital Diagnostics Reagents	16	242.1	9.0	3.7	243	217 - 267
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	224	209 - 257
All Chemistry Instruments	8	-	-	-	225	203 - 249
Alere Cholestech LDX						
All Chemistry Instruments	2	-	-	-	220	198 - 242
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	38	240.5	7.4	3.1	240	216 - 265
Beckman AU						
Beckman AU systems	38	234.5	5.8	2.5	235	211 - 258
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	234.8	7.4	3.1	234	211 - 259
Roche Integra						
Roche Integra	18	233.8	5.9	2.5	234	210 - 258
Siemens Healthcare						
Siemens Dimension	36	233.4	5.1	2.2	234	210 - 257
All Chemistry Instruments	39	232.7	5.5	2.4	233	209 - 256
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	242.1	9.0	3.7	243	217 - 267
VITROS						
VITROS 250,350,500,700,750,950	37	225.4	4.7	2.1	226	202 - 248
All Chemistry Instruments	44	225.1	4.9	2.2	226	202 - 248

Iron (µg/dL)

Specimen CH-11							Specimen CH-12					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	149.6	10.7	7.1	147	119 - 180	95	51.5	4.4	8.6	51	41 - 62
All Roche Reagents	11	151.5	2.9	1.9	150	121 - 182	11	54.9	1.9	3.4	55	43 - 66
Beckman AU												
Beckman AU systems	22	159.6	3.7	2.3	159	127 - 192	22	55.6	2.6	4.8	55	44 - 67
Siemens Healthcare												
Siemens Dimension	17	143.4	2.1	1.5	143	114 - 173	16	51.3	1.1	2.2	51	41 - 62
All Chemistry Instruments	19	143.7	2.4	1.6	143	114 - 173	18	51.4	1.2	2.3	51	41 - 62
VITROS												
All Chemistry Instruments	13	168.1	11.2	6.6	167	134 - 202	13	46.7	6.0	13.0	46	37 - 57
Specimen CH-13							Specimen CH-14					
All Method	94	71.4	4.6	6.5	70	57 - 86	95	130.8	9.1	6.9	129	104 - 158
All Roche Reagents	11	75.3	2.7	3.6	75	60 - 91	11	132.4	2.2	1.7	133	105 - 159
Beckman AU												
Beckman AU systems	22	76.1	2.7	3.5	76	60 - 92	22	139.0	3.9	2.8	139	111 - 167
Siemens Healthcare												
Siemens Dimension	16	69.9	1.1	1.6	70	55 - 84	17	125.0	2.3	1.8	125	100 - 150
All Chemistry Instruments	18	70.1	1.2	1.7	70	56 - 85	19	125.4	2.5	2.0	125	100 - 151
VITROS												
All Chemistry Instruments	13	70.7	6.8	9.6	69	56 - 85	13	142.5	8.1	5.7	143	113 - 171
Specimen CH-15												
All Method	94	190.5	15.7	8.3	188	152 - 229						
All Roche Reagents	11	191.0	2.2	1.1	191	152 - 230						
Beckman AU												
Beckman AU systems	22	201.6	5.2	2.6	201	161 - 242						
Siemens Healthcare												
Siemens Dimension	17	180.5	2.5	1.4	180	144 - 217						
All Chemistry Instruments	19	180.8	2.7	1.5	180	144 - 217						
VITROS												
All Chemistry Instruments	13	216.8	11.3	5.2	218	173 - 261						

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	4.77	0.20	4.1	4.8	4.1 - 5.4	6	1.78	0.16	9.0	1.9	1.3 - 2.3
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	2.40	0.18	7.5	2.5	1.8 - 3.0	6	4.17	0.18	4.2	4.2	3.6 - 4.7
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	5.95	0.24	4.1	6.0	5.2 - 6.7						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	124	3.52	0.21	5.9	3.5	2.6 - 4.5	125	1.69	0.11	6.8	1.7	1.2 - 2.2
All Horiba Pentra Reagents	17	3.39	0.23	6.8	3.3	2.5 - 4.3	17	1.66	0.15	9.1	1.7	1.2 - 2.1
All Roche Reagents	21	3.48	0.11	3.1	3.5	2.6 - 4.4	21	1.70	0.07	3.9	1.7	1.2 - 2.2
Beckman AU												
Beckman AU systems	21	3.50	0.09	2.6	3.5	2.6 - 4.4	21	1.70	0.06	3.5	1.7	1.2 - 2.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	3.39	0.23	6.8	3.3	2.5 - 4.3	17	1.66	0.15	9.1	1.7	1.2 - 2.1
Roche Integra												
Roche Integra	15	3.44	0.10	2.9	3.4	2.5 - 4.3	15	1.69	0.06	3.8	1.7	1.2 - 2.2
Siemens Healthcare												
Siemens Dimension	19	3.59	0.09	2.6	3.6	2.6 - 4.5	19	1.68	0.08	5.0	1.7	1.2 - 2.2
All Chemistry Instruments	21	3.62	0.13	3.7	3.6	2.7 - 4.6	20	1.69	0.08	4.8	1.7	1.2 - 2.2
VITROS												
VITROS 250,350,500,700,750,950	18	3.79	0.16	4.1	3.8	2.8 - 4.8	18	1.80	0.08	4.7	1.8	1.3 - 2.3
All Chemistry Instruments	22	3.77	0.15	4.0	3.7	2.8 - 4.8	23	1.78	0.09	5.0	1.8	1.3 - 2.3

Magnesium (mg/dL)

Specimen CH-13							Specimen CH-14					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	125	2.05	0.13	6.4	2.1	1.5 - 2.6	124	3.16	0.18	5.7	3.2	2.3 - 4.0
All Horiba Pentra Reagents	17	1.99	0.17	8.4	1.9	1.4 - 2.5	17	3.03	0.22	7.3	3.1	2.2 - 3.8
All Roche Reagents	21	2.05	0.07	3.7	2.0	1.5 - 2.6	21	3.12	0.09	2.8	3.1	2.3 - 4.0
Beckman AU												
Beckman AU systems	21	2.06	0.07	3.3	2.1	1.5 - 2.6	21	3.17	0.07	2.3	3.2	2.3 - 4.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.99	0.17	8.4	1.9	1.4 - 2.5	17	3.03	0.22	7.3	3.1	2.2 - 3.8
Roche Integra												
Roche Integra	15	2.03	0.07	3.6	2.0	1.5 - 2.6	15	3.09	0.06	2.1	3.1	2.3 - 3.9
Siemens Healthcare												
Siemens Dimension	18	2.09	0.06	3.1	2.1	1.5 - 2.7	19	3.21	0.11	3.5	3.2	2.4 - 4.1
All Chemistry Instruments	19	2.10	0.07	3.2	2.1	1.5 - 2.7	21	3.23	0.14	4.3	3.2	2.4 - 4.1
VITROS												
VITROS 250,350,500,700,750,950	18	2.21	0.09	4.0	2.2	1.6 - 2.8	18	3.39	0.13	3.7	3.4	2.5 - 4.3
All Chemistry Instruments	23	2.19	0.09	4.0	2.2	1.6 - 2.8	23	3.37	0.13	3.8	3.4	2.5 - 4.3
Specimen CH-15												
All Method	123	4.23	0.22	5.1	4.3	3.1 - 5.3						
All Horiba Pentra Reagents	17	4.01	0.25	6.3	4.1	3.0 - 5.1						
All Roche Reagents	21	4.16	0.12	3.0	4.1	3.1 - 5.2						
Beckman AU												
Beckman AU systems	21	4.23	0.12	2.9	4.3	3.1 - 5.3						
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	4.01	0.25	6.3	4.1	3.0 - 5.1						
Roche Integra												
Roche Integra	15	4.11	0.10	2.5	4.1	3.0 - 5.2						
Siemens Healthcare												
Siemens Dimension	19	4.33	0.11	2.4	4.3	3.2 - 5.5						
All Chemistry Instruments	21	4.36	0.15	3.4	4.4	3.2 - 5.5						
VITROS												
VITROS 250,350,500,700,750,950	18	4.50	0.12	2.7	4.5	3.3 - 5.7						
All Chemistry Instruments	23	4.46	0.14	3.1	4.5	3.3 - 5.6						

Phosphorus (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	3.96	0.17	4.2	3.9	3.5 - 4.4	102	2.13	0.14	6.3	2.1	1.8 - 2.5
All Alfa Wassermann Reagents	11	3.87	0.21	5.3	3.9	3.4 - 4.3	11	2.17	0.11	5.1	2.2	1.8 - 2.5
All Roche Reagents	15	3.91	0.10	2.5	3.9	3.4 - 4.4	15	2.03	0.09	4.4	2.0	1.7 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	3.87	0.21	5.3	3.9	3.4 - 4.3	11	2.17	0.11	5.1	2.2	1.8 - 2.5
Beckman AU												
Beckman AU systems	20	3.87	0.20	5.3	3.9	3.4 - 4.3	20	2.00	0.11	5.6	2.0	1.7 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	4.14	0.12	2.8	4.1	3.6 - 4.6	10	2.20	0.08	3.7	2.2	1.9 - 2.5
Roche Integra												
Roche Integra	12	3.91	0.10	2.5	3.9	3.4 - 4.4	12	2.03	0.10	4.8	2.0	1.7 - 2.4
Siemens Healthcare												
Siemens Dimension	14	4.10	0.08	1.9	4.1	3.6 - 4.6	14	2.24	0.11	4.8	2.2	1.9 - 2.6
VITROS												
VITROS 250,350,500,700,750,950	11	3.91	0.13	3.3	3.9	3.4 - 4.4	11	2.24	0.11	5.0	2.2	1.9 - 2.6
All Chemistry Instruments	17	3.91	0.12	3.1	3.9	3.4 - 4.4	17	2.24	0.11	4.7	2.2	1.9 - 2.6

Specimen CH-13							Specimen CH-14					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	2.51	0.13	5.2	2.5	2.2 - 2.9	103	3.59	0.18	4.9	3.6	3.2 - 4.0
All Alfa Wassermann Reagents	11	2.52	0.13	5.0	2.5	2.2 - 2.9	11	3.55	0.18	5.1	3.5	3.1 - 4.0
All Roche Reagents	15	2.43	0.09	3.6	2.4	2.1 - 2.8	15	3.53	0.12	3.3	3.5	3.1 - 4.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	2.52	0.13	5.0	2.5	2.2 - 2.9	11	3.55	0.18	5.1	3.5	3.1 - 4.0
Beckman AU												
Beckman AU systems	20	2.40	0.14	6.0	2.4	2.0 - 2.7	20	3.50	0.17	4.8	3.5	3.1 - 3.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	2.62	0.09	3.5	2.6	2.3 - 3.0	10	3.84	0.12	3.1	3.8	3.4 - 4.3
Roche Integra												
Roche Integra	12	2.43	0.10	4.0	2.4	2.1 - 2.8	12	3.53	0.12	3.4	3.5	3.1 - 4.0
Siemens Healthcare												
Siemens Dimension	14	2.61	0.09	3.5	2.6	2.3 - 3.0	14	3.69	0.11	3.0	3.7	3.2 - 4.1
VITROS												
VITROS 250,350,500,700,750,950	11	2.59	0.10	4.0	2.6	2.2 - 2.9	11	3.58	0.15	4.1	3.6	3.1 - 4.0
All Chemistry Instruments	17	2.59	0.11	4.1	2.6	2.2 - 2.9	17	3.58	0.13	3.7	3.6	3.1 - 4.0

Phosphorus (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	4.64	0.20	4.2	4.6	4.1 - 5.2
All Alfa Wassermann Reagents	11	4.53	0.28	6.2	4.6	4.0 - 5.1
All Roche Reagents	15	4.59	0.14	3.0	4.5	4.0 - 5.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	4.53	0.28	6.2	4.6	4.0 - 5.1
Beckman AU						
Beckman AU systems	20	4.58	0.21	4.5	4.6	4.0 - 5.1
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	4.95	0.16	3.3	5.0	4.4 - 5.5
Roche Integra						
Roche Integra	12	4.58	0.15	3.2	4.5	4.0 - 5.1
Siemens Healthcare						
Siemens Dimension	14	4.75	0.11	2.3	4.7	4.2 - 5.3
VITROS						
VITROS 250,350,500,700,750,950	11	4.61	0.14	3.1	4.6	4.1 - 5.2
All Chemistry Instruments	17	4.62	0.13	2.9	4.6	4.1 - 5.2

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	257	6.17	0.21	3.4	6.1	5.5 - 6.8	257	3.53	0.13	3.6	3.5	3.1 - 3.9
All Alfa Wassermann Reagents	35	6.29	0.18	2.8	6.3	5.6 - 7.0	35	3.56	0.10	2.8	3.6	3.2 - 4.0
All Horiba Pentra Reagents	20	6.14	0.19	3.1	6.1	5.5 - 6.8	20	3.45	0.13	3.7	3.4	3.1 - 3.8
All Roche Reagents	25	6.18	0.18	2.9	6.2	5.5 - 6.9	25	3.50	0.10	2.9	3.5	3.1 - 3.9
All Vital Diagnostics Reagents	15	6.06	0.20	3.3	6.1	5.4 - 6.7	16	3.44	0.11	3.2	3.5	3.0 - 3.8
Abaxis Piccolo												
Abaxis Piccolo - waived	22	6.16	0.09	1.5	6.2	5.5 - 6.8	22	3.60	0.06	1.7	3.6	3.2 - 4.0
All Chemistry Instruments	29	6.16	0.08	1.3	6.2	5.5 - 6.8	29	3.60	0.07	2.0	3.6	3.2 - 4.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	6.28	0.18	2.9	6.3	5.6 - 7.0	34	3.56	0.10	2.9	3.6	3.2 - 4.0
Beckman AU												
Beckman AU systems	37	6.09	0.14	2.2	6.1	5.4 - 6.7	37	3.45	0.09	2.5	3.4	3.1 - 3.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	6.14	0.19	3.1	6.1	5.5 - 6.8	20	3.45	0.13	3.7	3.4	3.1 - 3.8
Roche Integra												
Roche Integra	18	6.16	0.19	3.2	6.1	5.5 - 6.8	18	3.48	0.11	3.2	3.5	3.1 - 3.9
Siemens Healthcare												
Siemens Dimension	36	6.41	0.16	2.4	6.4	5.7 - 7.1	36	3.65	0.11	3.0	3.7	3.2 - 4.1
All Chemistry Instruments	38	6.41	0.15	2.4	6.4	5.7 - 7.1	38	3.66	0.11	3.0	3.7	3.2 - 4.1
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	6.06	0.20	3.3	6.1	5.4 - 6.7	15	3.45	0.11	3.1	3.5	3.1 - 3.8
VITROS												
VITROS 250,350,500,700,750,950	37	5.98	0.15	2.5	6.0	5.3 - 6.6	37	3.52	0.11	3.3	3.5	3.1 - 3.9
All Chemistry Instruments	44	5.97	0.14	2.4	6.0	5.3 - 6.6	44	3.50	0.11	3.1	3.5	3.1 - 3.9

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	237	4.06	0.14	3.4	4.1	3.6 - 4.5	239	5.65	0.20	3.5	5.6	5.0 - 6.3
All Alfa Wassermann Reagents	35	4.12	0.10	2.5	4.1	3.7 - 4.6	35	5.75	0.15	2.6	5.8	5.1 - 6.4
All Horiba Pentra Reagents	19	3.99	0.09	2.3	4.0	3.5 - 4.4	20	5.61	0.20	3.5	5.6	5.0 - 6.2
All Roche Reagents	25	4.05	0.13	3.3	4.1	3.6 - 4.5	25	5.65	0.17	2.9	5.6	5.0 - 6.3
All Vital Diagnostics Reagents	16	3.98	0.19	4.7	4.0	3.5 - 4.4	16	5.53	0.20	3.6	5.5	4.9 - 6.1
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	4.1	3.6 - 4.6	4	-	-	-	5.6	5.0 - 6.2
All Chemistry Instruments	10	4.10	0.07	1.6	4.1	3.6 - 4.6	10	5.59	0.07	1.3	5.6	5.0 - 6.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	4.12	0.10	2.5	4.1	3.7 - 4.6	34	5.74	0.15	2.6	5.8	5.1 - 6.4
Beckman AU												
Beckman AU systems	37	3.97	0.09	2.3	4.0	3.5 - 4.4	37	5.56	0.14	2.5	5.6	5.0 - 6.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	3.99	0.09	2.3	4.0	3.5 - 4.4	20	5.61	0.20	3.5	5.6	5.0 - 6.2
Roche Integra												
Roche Integra	18	4.02	0.13	3.3	4.0	3.6 - 4.5	18	5.62	0.17	3.0	5.6	5.0 - 6.2
Siemens Healthcare												
Siemens Dimension	36	4.22	0.10	2.4	4.2	3.7 - 4.7	36	5.87	0.15	2.6	5.9	5.2 - 6.5
All Chemistry Instruments	38	4.22	0.10	2.4	4.2	3.7 - 4.7	38	5.88	0.15	2.6	5.9	5.2 - 6.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	3.98	0.19	4.9	4.0	3.5 - 4.4	15	5.53	0.21	3.7	5.5	4.9 - 6.1
VITROS												
VITROS 250,350,500,700,750,950	37	4.04	0.10	2.5	4.0	3.6 - 4.5	37	5.55	0.15	2.7	5.5	4.9 - 6.2
All Chemistry Instruments	44	4.02	0.10	2.5	4.0	3.6 - 4.5	44	5.53	0.14	2.6	5.5	4.9 - 6.1

Protein, Total (g/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	239	7.22	0.26	3.6	7.2	6.5 - 8.0
All Alfa Wassermann Reagents	35	7.37	0.19	2.6	7.3	6.6 - 8.2
All Horiba Pentra Reagents	20	7.18	0.25	3.5	7.2	6.4 - 7.9
All Roche Reagents	25	7.20	0.19	2.6	7.2	6.4 - 8.0
All Vital Diagnostics Reagents	16	7.08	0.23	3.3	7.1	6.3 - 7.8
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	7.2	6.4 - 7.9
All Chemistry Instruments	10	7.15	0.12	1.6	7.2	6.4 - 7.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	34	7.36	0.19	2.6	7.3	6.6 - 8.2
Beckman AU						
Beckman AU systems	37	7.15	0.15	2.2	7.2	6.4 - 7.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	7.18	0.25	3.5	7.2	6.4 - 7.9
Roche Integra						
Roche Integra	18	7.17	0.18	2.5	7.1	6.4 - 7.9
Siemens Healthcare						
Siemens Dimension	36	7.52	0.19	2.6	7.5	6.7 - 8.3
All Chemistry Instruments	38	7.53	0.19	2.6	7.5	6.7 - 8.3
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	7.08	0.24	3.4	7.1	6.3 - 7.8
VITROS						
VITROS 250,350,500,700,750,950	37	7.03	0.20	2.8	7.0	6.3 - 7.8
All Chemistry Instruments	44	7.00	0.20	2.9	7.0	6.3 - 7.8

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	261	29.2	2.4	8.2	30	26 - 32	261	9.9	1.1	10.8	10	7 - 12
All Alfa Wassermann Reagents	37	29.6	1.4	4.8	29	26 - 33	37	10.2	0.6	6.2	10	8 - 13
All Horiba Pentra Reagents	20	29.4	1.6	5.3	29	26 - 32	20	10.0	0.7	7.3	10	8 - 12
All Roche Reagents	24	30.2	0.7	2.2	30	27 - 33	25	10.3	0.6	6.0	10	8 - 13
All Vital Diagnostics Reagents	16	30.8	1.1	3.7	31	27 - 34	16	10.7	1.0	9.5	11	8 - 13
Abaxis Piccolo												
Abaxis Piccolo - waived	21	28.0	0.8	2.9	28	25 - 31	21	9.2	0.8	8.9	9	7 - 12
All Chemistry Instruments	27	28.0	0.8	2.9	28	25 - 31	27	9.2	0.8	8.7	9	7 - 12
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	29.6	1.4	4.7	29	26 - 33	31	10.1	0.6	6.1	10	8 - 13
Beckman AU												
Beckman AU systems	37	30.8	1.0	3.2	31	27 - 34	37	10.6	0.5	4.5	11	8 - 13
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	29.4	1.6	5.3	29	26 - 32	20	10.0	0.7	7.3	10	8 - 12
Roche Integra												
Roche Integra	18	29.9	1.0	3.2	30	27 - 33	18	10.1	0.6	5.8	10	8 - 13
Siemens Healthcare												
Siemens Dimension	35	31.2	0.8	2.7	31	28 - 35	36	10.6	0.8	7.3	11	8 - 13
All Chemistry Instruments	38	31.2	0.8	2.6	31	28 - 34	39	10.5	0.8	7.2	11	8 - 13
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	30.7	1.1	3.6	31	27 - 34	15	10.5	0.8	7.9	11	8 - 13
VITROS												
VITROS 250,350,500,700,750,950	37	24.9	0.8	3.0	25	22 - 28	37	8.3	0.5	5.6	8	6 - 11
All Chemistry Instruments	43	24.8	0.6	2.6	25	22 - 28	44	8.3	0.5	5.4	8	6 - 11

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	243	13.8	1.3	9.5	14	11 - 16	243	25.4	2.2	8.8	26	23 - 28
All Alfa Wassermann Reagents	37	14.1	0.9	6.2	14	12 - 17	37	25.9	1.3	5.1	26	23 - 29
All Horiba Pentra Reagents	20	13.8	0.8	5.7	14	11 - 16	20	25.4	1.4	5.5	26	23 - 28
All Roche Reagents	25	14.2	0.6	4.4	14	12 - 17	25	26.1	0.7	2.8	26	23 - 29
All Vital Diagnostics Reagents	16	14.9	0.9	6.2	15	12 - 17	16	26.8	1.2	4.6	27	24 - 30
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	12	11 - 16	4	-	-	-	24	23 - 28
All Chemistry Instruments	9	-	-	-	12	10 - 15	9	-	-	-	24	21 - 27
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	14.0	0.9	6.2	14	12 - 17	31	25.8	1.3	5.0	26	23 - 29
Beckman AU												
Beckman AU systems	37	14.6	0.6	4.3	15	12 - 17	37	26.9	1.2	4.3	27	24 - 30
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	13.8	0.8	5.7	14	11 - 16	20	25.4	1.4	5.5	26	23 - 28
Roche Integra												
Roche Integra	18	13.9	0.5	3.9	14	11 - 16	18	26.0	0.7	2.6	26	23 - 29
Siemens Healthcare												
Siemens Dimension	36	14.7	0.9	6.1	15	12 - 17	36	27.1	1.0	3.6	27	24 - 30
All Chemistry Instruments	39	14.6	0.9	6.0	15	12 - 17	39	27.0	1.0	3.8	27	24 - 30
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	14.8	0.8	5.2	15	12 - 17	15	26.7	1.3	4.8	27	24 - 30
VITROS												
VITROS 250,350,500,700,750,950	37	11.8	0.6	5.0	12	9 - 14	37	21.5	0.8	3.6	21	19 - 24
All Chemistry Instruments	44	11.8	0.6	4.9	12	9 - 14	44	21.5	0.8	3.5	21	19 - 24

Urea Nitrogen (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	243	37.0	2.8	7.7	38	33 - 41
All Alfa Wassermann Reagents	37	37.3	2.0	5.2	37	33 - 41
All Horiba Pentra Reagents	20	37.1	2.0	5.4	37	33 - 41
All Roche Reagents	25	38.0	1.2	3.1	38	34 - 42
All Vital Diagnostics Reagents	16	38.6	1.7	4.4	39	35 - 43
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	36	33 - 41
All Chemistry Instruments	9	-	-	-	36	32 - 39
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	31	37.3	2.0	5.3	37	33 - 41
Beckman AU						
Beckman AU systems	37	38.8	1.4	3.5	39	35 - 43
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	37.1	2.0	5.4	37	33 - 41
Roche Integra						
Roche Integra	18	37.8	1.1	2.9	38	34 - 42
Siemens Healthcare						
Siemens Dimension	36	38.9	1.3	3.4	39	35 - 43
All Chemistry Instruments	39	38.8	1.3	3.3	39	35 - 43
Vital Diagnostics						
Vital Diagnostics Envoy 500	15	38.4	1.6	4.3	39	34 - 42
VITROS						
VITROS 250,350,500,700,750,950	37	32.2	0.9	2.7	32	29 - 36
All Chemistry Instruments	44	32.1	0.9	2.8	32	29 - 35

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	162	7.40	0.24	3.2	7.4	6.1 - 8.7	159	2.77	0.28	10.0	2.7	2.2 - 3.3
All Alfa Wassermann Reagents	20	7.52	0.24	3.2	7.5	6.2 - 8.8	20	3.53	0.23	6.6	3.5	2.9 - 4.2
All Roche Reagents	21	7.47	0.20	2.7	7.5	6.1 - 8.8	21	2.65	0.09	3.3	2.6	2.2 - 3.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	7.52	0.24	3.2	7.5	6.2 - 8.8	20	3.53	0.23	6.6	3.5	2.9 - 4.2
Beckman AU												
Beckman AU systems	31	7.47	0.13	1.8	7.5	6.1 - 8.8	31	2.76	0.09	3.3	2.8	2.2 - 3.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	7.34	0.16	2.2	7.4	6.0 - 8.6	14	2.66	0.12	4.3	2.7	2.2 - 3.2
Roche Integra												
Roche Integra	13	7.52	0.20	2.7	7.5	6.2 - 8.8	13	2.65	0.09	3.3	2.6	2.2 - 3.2
Siemens Healthcare												
Siemens Dimension	25	7.17	0.20	2.8	7.2	5.9 - 8.4	24	2.61	0.09	3.3	2.6	2.1 - 3.1
All Chemistry Instruments	27	7.17	0.20	2.8	7.2	5.9 - 8.4	26	2.61	0.08	3.2	2.6	2.1 - 3.1
VITROS												
VITROS 250,350,500,700,750,950	23	7.37	0.18	2.5	7.3	6.1 - 8.7	23	2.68	0.12	4.4	2.7	2.2 - 3.2
All Chemistry Instruments	30	7.37	0.17	2.3	7.4	6.1 - 8.7	30	2.69	0.11	4.1	2.7	2.2 - 3.2

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	155	3.70	0.20	5.3	3.7	3.0 - 4.4	160	6.48	0.21	3.2	6.5	5.3 - 7.6
All Alfa Wassermann Reagents	20	4.25	0.20	4.7	4.2	3.5 - 5.0	20	6.62	0.15	2.3	6.6	5.4 - 7.8
All Roche Reagents	21	3.63	0.09	2.5	3.6	3.0 - 4.3	21	6.50	0.17	2.6	6.5	5.3 - 7.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	4.25	0.20	4.7	4.2	3.5 - 5.0	20	6.62	0.15	2.3	6.6	5.4 - 7.8
Beckman AU												
Beckman AU systems	31	3.71	0.07	1.8	3.7	3.0 - 4.4	32	6.58	0.17	2.6	6.6	5.4 - 7.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	3.59	0.13	3.6	3.6	2.9 - 4.2	14	6.40	0.12	1.9	6.4	5.3 - 7.5
Roche Integra												
Roche Integra	13	3.64	0.09	2.4	3.6	3.0 - 4.3	13	6.55	0.16	2.5	6.5	5.4 - 7.7
Siemens Healthcare												
Siemens Dimension	24	3.53	0.09	2.6	3.5	2.9 - 4.2	25	6.24	0.17	2.7	6.3	5.1 - 7.3
All Chemistry Instruments	26	3.54	0.09	2.5	3.5	2.9 - 4.2	27	6.24	0.16	2.6	6.3	5.1 - 7.4
VITROS												
VITROS 250,350,500,700,750,950	23	3.66	0.12	3.4	3.6	3.0 - 4.3	23	6.45	0.15	2.3	6.5	5.3 - 7.6
All Chemistry Instruments	30	3.67	0.11	3.1	3.7	3.0 - 4.3	30	6.46	0.15	2.3	6.5	5.3 - 7.6

Uric Acid (mg/dL)

Specimen CH-15						
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	163	9.23	0.30	3.2	9.2	7.6 - 10.8
All Alfa Wassermann Reagents	20	9.27	0.18	2.0	9.3	7.6 - 10.9
All Roche Reagents	21	9.28	0.26	2.8	9.3	7.7 - 10.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	9.27	0.18	2.0	9.3	7.6 - 10.9
Beckman AU						
Beckman AU systems	32	9.38	0.21	2.3	9.3	7.7 - 11.0
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	9.18	0.17	1.9	9.2	7.6 - 10.8
Roche Integra						
Roche Integra	13	9.35	0.23	2.4	9.3	7.7 - 11.0
Siemens Healthcare						
Siemens Dimension	25	8.94	0.20	2.2	8.9	7.4 - 10.5
All Chemistry Instruments	27	8.94	0.19	2.2	8.9	7.4 - 10.5
VITROS						
VITROS 250,350,500,700,750,950	23	9.25	0.23	2.5	9.2	7.6 - 10.9
All Chemistry Instruments	30	9.25	0.23	2.5	9.2	7.6 - 10.9

Chloride (mmol/L)

Specimen CH-11							Specimen CH-12					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	252	104.0	2.5	2.4	104	98 - 110	254	92.4	2.5	2.8	92	87 - 98
Abaxis Piccolo												
Abaxis Piccolo - waived	22	104.9	2.2	2.1	106	99 - 111	22	97.6	2.1	2.2	98	92 - 103
All Chemistry Instruments	28	105.3	2.5	2.4	106	100 - 111	28	97.9	2.2	2.3	98	93 - 103
ISE Diluted												
Beckman AU systems	37	102.1	0.7	0.7	102	97 - 108	37	93.1	0.6	0.6	93	88 - 98
Roche Integra	18	103.8	1.4	1.3	104	98 - 109	18	92.0	1.5	1.6	92	87 - 97
Siemens Dimension QuickLyte - Xpand/EXL	24	105.0	1.0	0.9	105	99 - 111	24	91.0	0.9	1.0	91	86 - 96
Vital Diagnostics Envoy 500	14	108.1	3.2	2.9	108	102 - 114	14	93.3	1.8	1.9	94	88 - 98
All Chemistry Instruments	124	103.6	2.1	2.1	104	98 - 109	126	92.1	1.9	2.0	92	87 - 97
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	33	105.7	1.3	1.2	106	100 - 111	33	91.2	1.6	1.7	92	86 - 96
Horiba ABX Pentra 400	16	106.5	4.6	4.3	106	101 - 112	18	90.8	1.8	2.0	91	86 - 96
All Chemistry Instruments	53	105.8	2.8	2.6	106	100 - 112	55	91.0	1.7	1.9	91	86 - 96
VITROS												
VITROS 250,350,500,700,750,950	35	102.3	1.5	1.5	102	97 - 108	36	92.6	1.5	1.6	93	88 - 98
All Chemistry Instruments	42	102.2	1.5	1.5	102	97 - 108	42	92.4	1.3	1.4	93	87 - 98

Specimen CH-13							Specimen CH-14					
<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	234	94.4	1.9	2.0	94	89 - 100	231	101.5	1.9	1.9	102	96 - 107
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	97	94 - 105	4	-	-	-	103	98 - 109
All Chemistry Instruments	9	-	-	-	99	94 - 105	9	-	-	-	104	98 - 109
ISE Diluted												
Beckman AU systems	37	94.9	0.6	0.6	95	90 - 100	37	100.5	0.7	0.7	100	95 - 106
Roche Integra	18	94.4	1.3	1.4	95	89 - 100	18	101.3	1.7	1.7	102	96 - 107
Siemens Dimension QuickLyte - Xpand/EXL	24	93.7	1.0	1.0	94	89 - 99	24	102.3	1.0	0.9	102	97 - 108
Vital Diagnostics Envoy 500	14	96.6	2.1	2.2	98	91 - 102	14	105.3	3.0	2.9	105	100 - 111
All Chemistry Instruments	125	94.4	1.8	1.9	95	89 - 100	121	101.3	1.6	1.6	101	96 - 107
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	33	93.7	1.3	1.4	94	89 - 99	33	102.1	1.2	1.2	102	97 - 108
Horiba ABX Pentra 400	18	94.0	2.1	2.2	94	89 - 99	18	102.8	3.7	3.6	103	97 - 108
All Chemistry Instruments	55	93.8	1.7	1.8	94	89 - 99	55	102.4	2.3	2.3	102	97 - 108
VITROS												
VITROS 250,350,500,700,750,950	36	94.8	1.6	1.7	95	90 - 100	36	100.9	1.7	1.7	101	95 - 106
All Chemistry Instruments	43	94.7	1.6	1.7	95	89 - 100	42	100.6	1.5	1.5	101	95 - 106

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	232	108.6	3.0	2.7	109	103 - 115
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	107	101 - 113
All Chemistry Instruments	9	-	-	-	107	101 - 113
ISE Diluted						
Beckman AU systems	38	105.8	0.9	0.8	106	100 - 112
Roche Integra	18	108.3	2.3	2.1	109	102 - 114
Siemens Dimension QuickLyte - Xpand/EXL	24	110.3	1.0	0.9	110	104 - 116
Vital Diagnostics Envoy 500	14	115.3	5.2	4.5	115	109 - 122
All Chemistry Instruments	125	108.4	3.1	2.8	108	102 - 114
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	33	110.8	1.2	1.1	110	105 - 117
Horiba ABX Pentra 400	15	111.3	5.3	4.7	111	105 - 117
All Chemistry Instruments	49	110.8	2.0	1.8	111	105 - 117
VITROS						
VITROS 250,350,500,700,750,950	34	107.2	1.5	1.4	108	101 - 113
All Chemistry Instruments	41	107.1	1.6	1.5	108	101 - 113

CO₂ (mmol/L)

Specimen CH-11							Specimen CH-12					
<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	249	26.8	2.3	8.4	27	21 - 33	252	15.6	1.7	10.9	15	12 - 19
Abaxis Piccolo												
Abaxis Piccolo - waived	22	26.5	1.4	5.3	26	21 - 32	22	14.7	1.1	7.7	14	11 - 18
All Chemistry Instruments	27	26.5	1.3	4.8	27	21 - 32	27	14.6	1.1	7.5	14	11 - 18
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	20	27.6	2.5	9.2	28	22 - 34	20	16.2	1.9	11.9	17	12 - 20
Beckman AU systems	29	27.9	2.2	7.9	28	22 - 34	29	16.0	1.4	8.6	16	12 - 20
Horiba ABX Pentra 400	14	26.4	1.9	7.2	26	21 - 32	14	16.1	1.6	10.0	16	12 - 20
Roche Integra	14	25.7	1.7	6.5	26	20 - 31	14	15.1	1.5	10.0	15	12 - 19
Siemens Dimension	26	27.8	2.1	7.6	29	22 - 34	26	16.9	1.2	7.3	17	13 - 21
All Chemistry Instruments	123	27.3	2.2	8.2	27	21 - 33	124	16.1	1.6	10.0	16	12 - 20
ISE Diluted												
Vital Diagnostics Envoy 500	13	28.2	4.1	14.5	28	22 - 34	13	15.1	1.8	11.6	15	12 - 19
All Chemistry Instruments	29	27.0	2.4	8.8	27	21 - 33	31	15.4	1.5	9.4	15	12 - 19
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	25.5	3.4	13.3	26	20 - 31	11	15.7	2.1	13.4	15	12 - 19
All Chemistry Instruments	19	26.7	3.5	13.2	27	21 - 33	19	16.1	2.0	12.4	16	12 - 20
VITROS												
VITROS 250,350,500,700,750,950	36	25.6	1.3	5.0	26	20 - 31	36	14.3	1.3	8.8	14	11 - 18
All Chemistry Instruments	42	25.5	1.3	5.0	26	20 - 31	42	14.4	1.3	8.7	15	11 - 18

Specimen CH-13							Specimen CH-14					
<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	233	17.7	2.0	11.4	18	14 - 22	231	24.2	2.3	9.4	24	19 - 29
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	17	13 - 21	4	-	-	-	24	19 - 29
All Chemistry Instruments	9	-	-	-	17	13 - 21	9	-	-	-	24	19 - 29
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	20	18.5	2.1	11.6	19	14 - 23	20	25.0	2.5	10.0	25	20 - 30
Beckman AU systems	29	18.1	1.8	9.7	19	14 - 22	29	25.2	2.2	8.6	26	20 - 31
Horiba ABX Pentra 400	14	17.9	2.1	11.8	18	14 - 22	14	23.6	2.2	9.3	24	18 - 29
Roche Integra	14	17.1	1.2	7.1	17	13 - 21	14	22.9	1.5	6.4	23	18 - 28
Siemens Dimension	26	19.0	1.5	8.0	19	15 - 23	26	25.6	2.1	8.3	26	20 - 31
All Chemistry Instruments	124	18.2	1.9	10.6	18	14 - 22	124	24.7	2.4	9.5	25	19 - 30
ISE Diluted												
Vital Diagnostics Envoy 500	13	17.8	2.7	15.0	17	14 - 22	13	25.5	3.7	14.4	25	20 - 31
All Chemistry Instruments	31	17.7	2.1	11.6	17	14 - 22	30	24.4	1.8	7.5	25	19 - 30
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	17.5	2.7	15.7	17	13 - 21	11	23.5	3.6	15.5	23	18 - 29
All Chemistry Instruments	19	18.2	2.5	14.0	18	14 - 22	19	24.0	3.2	13.3	25	19 - 29
VITROS												
VITROS 250,350,500,700,750,950	36	16.2	1.3	7.9	16	12 - 20	36	22.4	1.5	6.5	22	17 - 27
All Chemistry Instruments	42	16.2	1.3	7.9	16	12 - 20	42	22.4	1.4	6.4	23	17 - 27

CO₂ (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	231	29.8	2.8	9.5	30	23 - 36
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	29	23 - 36
All Chemistry Instruments	9	-	-	-	29	23 - 36
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	20	30.6	3.0	9.9	31	24 - 37
Beckman AU systems	29	31.5	2.6	8.3	32	25 - 38
Horiba ABX Pentra 400	14	29.1	2.2	7.7	29	23 - 35
Roche Integra	14	28.4	1.5	5.3	29	22 - 35
Siemens Dimension	26	31.8	2.3	7.4	32	25 - 39
All Chemistry Instruments	124	30.5	2.8	9.2	31	24 - 37
ISE Diluted						
Vital Diagnostics Envoy 500	13	32.9	6.5	19.7	32	26 - 40
All Chemistry Instruments	29	30.2	2.4	8.0	31	24 - 37
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	11	29.5	3.8	13.0	29	23 - 36
All Chemistry Instruments	19	30.1	3.1	10.1	30	24 - 37
VITROS						
VITROS 250,350,500,700,750,950	36	27.3	2.0	7.4	27	21 - 33
All Chemistry Instruments	42	27.5	2.1	7.6	27	21 - 33

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	259	5.62	0.13	2.4	5.6	5.1 - 6.2	247	3.20	0.08	2.4	3.2	2.6 - 3.7
Abaxis Piccolo												
Abaxis Piccolo - waived	22	5.54	0.18	3.3	5.6	5.0 - 6.1	22	2.96	0.17	5.8	3.0	2.4 - 3.5
All Chemistry Instruments	28	5.60	0.22	3.8	5.6	5.0 - 6.1	28	3.01	0.19	6.3	3.0	2.5 - 3.6
ISE Diluted												
Beckman AU systems	37	5.50	0.05	0.9	5.5	4.9 - 6.0	38	3.18	0.05	1.5	3.2	2.6 - 3.7
Roche Integra	17	5.59	0.04	0.8	5.6	5.0 - 6.1	16	3.20	0.01	0.0	3.2	2.7 - 3.7
Siemens Dimension QuickLyte - Xpand/EXL	24	5.64	0.06	1.0	5.6	5.1 - 6.2	25	3.20	0.05	1.6	3.2	2.7 - 3.7
Vital Diagnostics Envoy 500	14	5.62	0.17	3.0	5.6	5.1 - 6.2	13	3.20	0.06	1.8	3.2	2.7 - 3.7
All Chemistry Instruments	125	5.58	0.09	1.6	5.6	5.0 - 6.1	126	3.20	0.05	1.7	3.2	2.6 - 3.7
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	34	5.73	0.12	2.1	5.8	5.2 - 6.3	33	3.17	0.09	2.9	3.2	2.6 - 3.7
Horiba ABX Pentra 400	19	5.52	0.08	1.5	5.5	5.0 - 6.1	18	3.21	0.06	2.0	3.2	2.7 - 3.8
All Chemistry Instruments	58	5.65	0.15	2.7	5.7	5.1 - 6.2	55	3.18	0.09	2.7	3.2	2.6 - 3.7
VITROS												
VITROS 250,350,500,700,750,950	37	5.71	0.09	1.6	5.7	5.2 - 6.3	37	3.25	0.06	1.9	3.3	2.7 - 3.8
All Chemistry Instruments	44	5.70	0.09	1.6	5.7	5.2 - 6.3	44	3.25	0.06	1.9	3.2	2.7 - 3.8
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	236	3.68	0.08	2.2	3.7	3.1 - 4.2	234	5.13	0.10	2.0	5.1	4.6 - 5.7
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	3.6	3.1 - 4.2	4	-	-	-	5.2	4.7 - 5.8
All Chemistry Instruments	9	-	-	-	3.7	3.1 - 4.2	9	-	-	-	5.3	4.7 - 5.8
ISE Diluted												
Beckman AU systems	37	3.62	0.05	1.3	3.6	3.1 - 4.2	38	5.04	0.05	1.0	5.0	4.5 - 5.6
Roche Integra	16	3.70	0.01	0.0	3.7	3.2 - 4.2	17	5.13	0.06	1.1	5.1	4.6 - 5.7
Siemens Dimension QuickLyte - Xpand/EXL	24	3.68	0.05	1.3	3.7	3.1 - 4.2	24	5.15	0.06	1.1	5.1	4.6 - 5.7
Vital Diagnostics Envoy 500	14	3.70	0.07	1.8	3.7	3.2 - 4.2	13	5.07	0.11	2.2	5.0	4.5 - 5.6
All Chemistry Instruments	125	3.67	0.07	1.8	3.7	3.1 - 4.2	125	5.10	0.08	1.6	5.1	4.6 - 5.7
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	34	3.62	0.09	2.5	3.6	3.1 - 4.2	33	5.17	0.10	1.8	5.2	4.6 - 5.7
Horiba ABX Pentra 400	19	3.66	0.10	2.8	3.6	3.1 - 4.2	19	5.04	0.08	1.6	5.0	4.5 - 5.6
All Chemistry Instruments	57	3.63	0.10	2.7	3.6	3.1 - 4.2	56	5.12	0.12	2.3	5.1	4.6 - 5.7
VITROS												
VITROS 250,350,500,700,750,950	37	3.74	0.06	1.7	3.7	3.2 - 4.3	35	5.24	0.06	1.1	5.2	4.7 - 5.8
All Chemistry Instruments	44	3.74	0.07	1.7	3.7	3.2 - 4.3	42	5.22	0.07	1.4	5.2	4.7 - 5.8

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	237	6.59	0.16	2.4	6.6	6.0 - 7.1
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	6.5	6.1 - 7.2
All Chemistry Instruments	9	-	-	-	6.7	6.1 - 7.2
ISE Diluted						
Beckman AU systems	38	6.44	0.07	1.1	6.4	5.9 - 7.0
Roche Integra	17	6.54	0.07	1.1	6.6	6.0 - 7.1
Siemens Dimension QuickLyte - Xpand/EXL	24	6.59	0.07	1.0	6.6	6.0 - 7.1
Vital Diagnostics Envoy 500	14	6.67	0.36	5.5	6.6	6.1 - 7.2
All Chemistry Instruments	124	6.52	0.10	1.6	6.5	6.0 - 7.1
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	34	6.80	0.16	2.4	6.8	6.3 - 7.4
Horiba ABX Pentra 400	19	6.42	0.11	1.7	6.4	5.9 - 7.0
All Chemistry Instruments	58	6.65	0.23	3.5	6.7	6.1 - 7.2
VITROS						
VITROS 250,350,500,700,750,950	37	6.72	0.12	1.7	6.7	6.2 - 7.3
All Chemistry Instruments	44	6.72	0.11	1.7	6.7	6.2 - 7.3

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-11							Specimen CH-12					
<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	261	145.3	2.9	2.0	145	141 - 150	257	118.2	2.6	2.2	118	114 - 123
Abaxis Piccolo												
Abaxis Piccolo - waived	22	146.0	2.4	1.6	146	141 - 150	21	122.4	2.1	1.7	122	118 - 127
All Chemistry Instruments	28	146.1	2.4	1.7	146	142 - 151	25	122.1	2.1	1.7	122	118 - 127
ISE Diluted												
Beckman AU systems	38	142.2	1.3	0.9	142	138 - 147	38	116.7	1.1	1.0	117	112 - 121
Roche Integra	17	143.0	0.9	0.7	143	139 - 147	17	117.1	0.9	0.8	117	113 - 122
Siemens Dimension QuickLyte - Xpand/EXL	25	144.8	1.1	0.7	145	140 - 149	26	120.2	1.4	1.2	120	116 - 125
Vital Diagnostics Envoy 500	14	143.9	1.8	1.3	144	139 - 148	14	117.9	1.9	1.6	118	113 - 122
All Chemistry Instruments	126	143.4	1.7	1.2	143	139 - 148	127	118.0	1.9	1.6	118	114 - 122
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	34	146.0	1.8	1.2	146	142 - 151	34	115.0	1.7	1.5	115	111 - 120
Horiba ABX Pentra 400	19	145.3	1.4	0.9	145	141 - 150	18	117.6	1.1	0.9	118	113 - 122
All Chemistry Instruments	57	145.8	1.8	1.2	146	141 - 150	56	116.0	2.0	1.7	116	112 - 121
VITROS												
VITROS 250,350,500,700,750,950	37	149.5	1.9	1.3	150	145 - 154	37	119.4	1.8	1.5	120	115 - 124
All Chemistry Instruments	44	149.6	2.0	1.3	150	145 - 154	44	119.5	1.8	1.5	120	115 - 124

Specimen CH-13							Specimen CH-14					
<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	241	123.3	2.3	1.9	123	119 - 128	242	139.6	2.5	1.8	139	135 - 144
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	127	122 - 131	4	-	-	-	140	135 - 144
All Chemistry Instruments	9	-	-	-	126	122 - 131	9	-	-	-	140	135 - 144
ISE Diluted												
Beckman AU systems	36	121.9	0.9	0.7	122	117 - 126	37	137.7	0.7	0.5	138	133 - 142
Roche Integra	17	122.3	1.0	0.8	122	118 - 127	17	137.8	1.3	0.9	138	133 - 142
Siemens Dimension QuickLyte - Xpand/EXL	25	125.0	0.9	0.7	125	121 - 130	26	140.0	1.4	1.0	140	136 - 144
Vital Diagnostics Envoy 500	14	123.5	1.3	1.0	123	119 - 128	14	139.2	2.1	1.5	138	135 - 144
All Chemistry Instruments	126	123.1	1.7	1.4	123	119 - 128	127	138.5	1.5	1.1	138	134 - 143
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	34	120.6	1.6	1.4	121	116 - 125	34	138.6	1.5	1.1	139	134 - 143
Horiba ABX Pentra 400	19	122.8	0.9	0.7	123	118 - 127	19	139.5	1.0	0.7	139	135 - 144
All Chemistry Instruments	57	121.6	2.0	1.7	121	117 - 126	57	139.0	1.4	1.0	139	134 - 143
VITROS												
VITROS 250,350,500,700,750,950	37	125.5	1.7	1.4	126	121 - 130	37	143.8	1.8	1.3	144	139 - 148
All Chemistry Instruments	44	125.6	1.8	1.4	126	121 - 130	44	143.9	1.8	1.3	144	139 - 148

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	242	156.2	4.1	2.6	155	152 - 161
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	157	151 - 160
All Chemistry Instruments	9	-	-	-	156	151 - 160
ISE Diluted						
Beckman AU systems	38	152.5	1.2	0.8	153	148 - 157
Roche Integra	17	152.9	1.7	1.1	153	148 - 157
Siemens Dimension QuickLyte - Xpand/EXL	25	154.1	1.3	0.8	154	150 - 159
Vital Diagnostics Envoy 500	13	154.8	2.4	1.6	155	150 - 159
All Chemistry Instruments	127	153.4	1.9	1.3	153	149 - 158
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	34	157.8	2.1	1.4	158	153 - 162
Horiba ABX Pentra 400	19	156.6	1.5	1.0	156	152 - 161
All Chemistry Instruments	56	157.1	1.8	1.1	157	153 - 162
VITROS						
VITROS 250,350,500,700,750,950	37	162.7	2.2	1.3	163	158 - 167
All Chemistry Instruments	44	162.8	2.3	1.4	163	158 - 167

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	309.7	99.2	32.0	346	111 - 509	18	152.1	38.5	25.3	168	75 - 230
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	14	307.4	101.8	33.1	346	103 - 511	14	150.1	37.1	24.7	168	75 - 225
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	182.1	50.3	27.6	207	81 - 283	18	275.6	82.7	30.0	312	110 - 442
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	14	179.5	49.6	27.6	203	80 - 279	14	272.4	83.2	30.5	310	106 - 439
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	371.9	115.8	31.1	421	140 - 604						
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	14	370.0	117.3	31.7	421	135 - 605						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	279.0	23.5	8.4	277	223 - 335	24	150.0	35.1	23.4	134	79 - 221
Siemens Healthcare												
Siemens Dimension	13	264.5	15.5	5.9	265	211 - 318	13	123.5	10.9	8.9	124	98 - 149
All Chemistry Instruments	15	265.9	14.9	5.6	269	212 - 320	15	124.5	10.5	8.5	124	99 - 150
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	178.2	32.0	18.0	166	114 - 243	24	256.9	24.3	9.5	255	205 - 309
Siemens Healthcare												
Siemens Dimension	13	153.9	8.5	5.5	152	123 - 185	13	239.5	8.4	3.5	238	191 - 288
All Chemistry Instruments	15	155.0	8.4	5.4	155	124 - 186	15	241.1	9.0	3.7	240	192 - 290
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	24	331.8	18.3	5.5	327	265 - 399						
Siemens Healthcare												
Siemens Dimension	13	323.8	10.6	3.3	321	259 - 389						
All Chemistry Instruments	15	325.7	11.4	3.5	325	260 - 391						

UIBC – Direct (µg/dL)

Specimen CH-11							Specimen CH-12					
<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	26	205.8	14.2	6.9	210	164 - 247	26	119.5	10.8	9.0	120	95 - 144
All Roche Integra/c111/c301/c501 Reagents	10	195.2	13.9	7.1	191	156 - 235	10	111.5	8.5	7.6	109	89 - 134
Beckman AU												
Beckman AU systems	15	214.2	7.1	3.3	214	171 - 258	15	126.0	7.2	5.7	125	100 - 152
Specimen CH-13							Specimen CH-14					
All Method	26	137.5	12.7	9.2	140	110 - 165	26	188.8	13.5	7.1	189	151 - 227
All Roche Integra/c111/c301/c501 Reagents	10	129.0	12.1	9.4	128	103 - 155	10	180.0	13.6	7.5	179	144 - 216
Beckman AU												
Beckman AU systems	15	144.5	8.0	5.5	142	115 - 174	15	195.9	8.6	4.4	194	156 - 236
Specimen CH-15												
All Method	26	238.6	14.3	6.0	241	190 - 287						
All Roche Integra/c111/c301/c501 Reagents	10	228.8	15.4	6.7	227	183 - 275						
Beckman AU												
Beckman AU systems	15	246.3	7.7	3.1	245	197 - 296						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	253	178.3	16.0	9.0	180	142 - 214	252	47.2	7.4	15.6	47	37 - 57
All Alfa Wassermann Reagents	36	155.6	2.6	1.7	155	124 - 187	36	36.7	2.3	6.4	37	29 - 45
All Horiba Pentra Reagents	20	203.6	7.7	3.8	202	162 - 245	20	51.3	2.3	4.5	51	41 - 62
All Roche Reagents	24	179.7	3.3	1.8	180	143 - 216	25	44.7	1.2	2.6	45	35 - 54
All Vital Diagnostics Reagents	16	188.4	10.0	5.3	190	150 - 227	16	47.9	2.2	4.6	48	38 - 58
Abaxis Piccolo												
Abaxis Piccolo - waived	21	163.7	3.2	1.9	163	130 - 197	21	46.4	2.4	5.2	46	37 - 56
All Chemistry Instruments	28	163.7	3.0	1.8	164	130 - 197	28	46.5	2.6	5.5	47	37 - 56
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	155.5	2.7	1.7	155	124 - 187	30	36.6	2.4	6.7	37	29 - 44
Beckman AU												
Beckman AU systems	36	164.7	4.0	2.4	165	131 - 198	37	40.9	1.1	2.8	41	32 - 50
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	203.6	7.7	3.8	202	162 - 245	20	51.3	2.3	4.5	51	41 - 62
Roche Integra												
Roche Integra	18	180.2	5.0	2.8	180	144 - 217	18	44.5	1.2	2.6	44	35 - 54
Siemens Healthcare ALTi												
Siemens Dimension	31	192.0	4.3	2.2	193	153 - 231	31	49.5	1.6	3.2	49	39 - 60
All Chemistry Instruments	33	191.5	4.6	2.4	193	153 - 230	33	49.4	1.6	3.3	49	39 - 60
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	188.4	10.0	5.3	190	150 - 227	16	47.9	2.2	4.6	48	38 - 58
VITROS												
VITROS 250,350,500,700,750,950	37	188.6	5.5	2.9	189	150 - 227	37	59.6	4.0	6.7	60	47 - 72
All Chemistry Instruments	44	188.3	6.0	3.2	188	150 - 226	44	59.1	4.1	7.0	59	47 - 71

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	234	74.1	9.1	12.3	75	59 - 89	235	152.9	14.1	9.3	156	122 - 184
All Alfa Wassermann Reagents	36	60.5	2.0	3.3	60	48 - 73	36	131.8	2.9	2.2	132	105 - 159
All Horiba Pentra Reagents	20	82.3	3.2	3.8	82	65 - 99	20	173.6	6.4	3.7	173	138 - 209
All Roche Reagents	25	72.2	1.7	2.4	72	57 - 87	25	153.0	4.0	2.6	153	122 - 184
All Vital Diagnostics Reagents	17	69.5	20.2	29.1	76	55 - 84	16	159.1	7.0	4.4	159	127 - 191
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	69	56 - 86	4	-	-	-	141	111 - 168
All Chemistry Instruments	10	71.1	2.3	3.3	71	56 - 86	10	139.6	4.5	3.2	140	111 - 168
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	60.4	2.0	3.4	60	48 - 73	30	131.7	2.9	2.2	132	105 - 159
Beckman AU												
Beckman AU systems	36	65.6	1.4	2.1	66	52 - 79	36	139.5	3.5	2.5	140	111 - 168
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	82.3	3.2	3.8	82	65 - 99	20	173.6	6.4	3.7	173	138 - 209
Roche Integra												
Roche Integra	18	72.2	2.0	2.7	72	57 - 87	18	153.1	4.1	2.7	153	122 - 184
Siemens Healthcare ALTi												
Siemens Dimension	31	78.8	2.1	2.7	78	63 - 95	30	164.3	3.0	1.8	164	131 - 198
All Chemistry Instruments	33	78.7	2.2	2.8	78	62 - 95	33	163.5	3.8	2.3	164	130 - 197
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	76.6	3.3	4.3	76	61 - 92	16	159.1	7.0	4.4	159	127 - 191
VITROS												
VITROS 250,350,500,700,750,950	37	85.8	4.8	5.6	86	68 - 103	37	162.6	4.5	2.8	162	130 - 196
All Chemistry Instruments	43	85.0	4.2	5.0	85	68 - 102	44	162.2	5.0	3.1	162	129 - 195

ALT (SGPT) (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	235	230.9	19.8	8.6	234	184 - 278
All Alfa Wassermann Reagents	35	203.2	3.7	1.8	203	162 - 244
All Horiba Pentra Reagents	20	263.6	11.5	4.4	262	210 - 317
All Roche Reagents	24	232.1	4.0	1.7	233	185 - 279
All Vital Diagnostics Reagents	16	240.3	9.9	4.1	243	192 - 289
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	211	167 - 251
All Chemistry Instruments	10	209.1	5.4	2.6	210	167 - 251
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	202.9	3.7	1.8	202	162 - 244
Beckman AU						
Beckman AU systems	36	213.3	5.3	2.5	214	170 - 256
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	263.6	11.5	4.4	262	210 - 317
Roche Integra						
Roche Integra	18	232.3	6.3	2.7	231	185 - 279
Siemens Healthcare ALTi						
Siemens Dimension	31	247.7	4.8	1.9	247	198 - 298
All Chemistry Instruments	33	247.1	5.3	2.1	247	197 - 297
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	240.3	9.9	4.1	243	192 - 289
VITROS						
VITROS 250,350,500,700,750,950	37	239.4	5.9	2.5	241	191 - 288
All Chemistry Instruments	44	238.8	6.9	2.9	241	191 - 287

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	258	216.5	30.4	14.0	219	151 - 282	253	72.5	6.7	9.2	73	50 - 95
All Alfa Wassermann Reagents	36	228.5	10.8	4.7	231	159 - 298	36	72.7	4.0	5.5	73	50 - 95
All Horiba Pentra Reagents	20	253.4	17.5	6.9	251	177 - 330	20	82.5	7.9	9.6	79	57 - 108
All Roche Reagents	25	227.9	9.7	4.3	226	159 - 297	25	72.7	3.1	4.3	72	50 - 95
All Vital Diagnostics Reagents	16	211.8	11.5	5.5	212	148 - 276	17	71.1	6.2	8.7	69	49 - 93
Abaxis Piccolo												
Abaxis Piccolo - waived	20	183.8	8.6	4.7	183	128 - 239	20	64.8	4.0	6.2	65	45 - 85
All Chemistry Instruments	28	181.6	9.0	4.9	181	127 - 237	28	64.1	4.5	7.1	63	44 - 84
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	228.6	10.8	4.7	231	160 - 298	30	72.7	4.2	5.7	74	50 - 95
Beckman AU												
Beckman AU systems	36	210.0	17.8	8.5	213	146 - 273	36	66.5	6.1	9.1	67	46 - 87
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	253.4	17.5	6.9	251	177 - 330	20	82.5	7.9	9.6	79	57 - 108
Roche Integra												
Roche Integra	17	229.4	10.7	4.7	229	160 - 299	17	73.1	3.4	4.7	73	51 - 95
All Chemistry Instruments	18	229.7	10.5	4.6	230	160 - 299	18	73.1	3.3	4.6	73	51 - 96
Siemens Healthcare												
Siemens Dimension	10	252.5	6.9	2.8	251	176 - 329	10	77.9	4.3	5.5	79	54 - 102
Siemens Healthcare ALPi												
Siemens Dimension	28	254.0	7.0	2.7	256	177 - 331	28	79.8	3.2	4.0	80	55 - 104
All Chemistry Instruments	30	255.0	7.8	3.1	256	178 - 332	30	80.0	3.2	4.0	80	56 - 104
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	211.8	11.5	5.5	212	148 - 276	16	70.3	5.5	7.9	69	49 - 92
VITROS												
VITROS 250,350,500,700,750,950	37	178.6	10.4	5.8	180	125 - 233	36	72.7	3.6	5.0	73	50 - 95
All Chemistry Instruments	44	179.0	10.7	6.0	180	125 - 233	43	72.5	3.7	5.1	72	50 - 95

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	237	104.6	10.5	10.1	104	73 - 136	239	193.2	24.7	12.8	194	135 - 252
All Alfa Wassermann Reagents	36	106.2	5.1	4.8	107	74 - 139	35	200.2	9.6	4.8	201	140 - 261
All Horiba Pentra Reagents	20	119.3	10.0	8.4	119	83 - 156	20	223.4	16.9	7.6	218	156 - 291
All Roche Reagents	25	105.5	4.5	4.3	106	73 - 138	25	198.7	9.0	4.5	198	139 - 259
All Vital Diagnostics Reagents	16	99.3	8.5	8.6	99	69 - 130	16	186.3	13.5	7.2	187	130 - 243
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	84	58 - 110	4	-	-	-	156	110 - 205
All Chemistry Instruments	10	83.9	6.1	7.3	84	58 - 110	10	157.3	5.7	3.6	157	110 - 205
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	106.0	5.2	4.9	107	74 - 138	29	200.2	9.2	4.6	201	140 - 261
Beckman AU												
Beckman AU systems	36	96.6	8.3	8.6	97	67 - 126	36	183.8	15.7	8.6	186	128 - 239
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	119.3	10.0	8.4	119	83 - 156	20	223.4	16.9	7.6	218	156 - 291
Roche Integra												
Roche Integra	17	106.1	4.9	4.6	107	74 - 138	17	199.9	9.7	4.9	200	139 - 260
All Chemistry Instruments	18	106.2	4.8	4.5	107	74 - 139	18	200.2	9.5	4.8	201	140 - 261
Siemens Healthcare												
Siemens Dimension	10	114.4	5.1	4.5	116	80 - 149	10	220.8	7.1	3.2	221	154 - 288
Siemens Healthcare ALPi												
Siemens Dimension	28	117.0	3.8	3.3	118	81 - 153	28	222.1	6.1	2.8	223	155 - 289
All Chemistry Instruments	30	117.2	3.8	3.2	118	82 - 153	30	222.5	6.2	2.8	223	155 - 290
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	99.3	8.5	8.6	99	69 - 130	16	186.3	13.5	7.2	187	130 - 243
VITROS												
VITROS 250,350,500,700,750,950	37	101.0	5.8	5.7	101	70 - 132	37	164.1	8.9	5.4	164	114 - 214
All Chemistry Instruments	44	100.7	5.9	5.8	100	70 - 131	44	164.2	9.0	5.5	164	114 - 214

Alkaline Phosphatase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	241	272.5	43.4	15.9	281	190 - 355
All Alfa Wassermann Reagents	36	287.9	14.0	4.9	290	201 - 375
All Horiba Pentra Reagents	20	319.8	23.1	7.2	315	223 - 416
All Roche Reagents	25	286.4	12.0	4.2	288	200 - 373
All Vital Diagnostics Reagents	17	267.6	19.5	7.3	265	187 - 348
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	212	150 - 281
All Chemistry Instruments	10	215.5	8.4	3.9	217	150 - 281
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	287.7	13.7	4.8	291	201 - 374
Beckman AU						
Beckman AU systems	36	264.9	23.1	8.7	269	185 - 345
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	319.8	23.1	7.2	315	223 - 416
Roche Integra						
Roche Integra	17	288.0	13.1	4.5	288	201 - 375
All Chemistry Instruments	18	288.4	12.8	4.4	290	201 - 375
Siemens Healthcare						
Siemens Dimension	10	318.5	9.3	2.9	319	222 - 415
Siemens Healthcare ALPi						
Siemens Dimension	28	320.9	7.6	2.4	321	224 - 418
All Chemistry Instruments	29	321.4	8.1	2.5	321	225 - 418
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	267.7	20.2	7.5	265	187 - 348
VITROS						
VITROS 250,350,500,700,750,950	37	207.5	12.6	6.1	210	145 - 270
All Chemistry Instruments	44	207.6	12.8	6.2	209	145 - 270

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	222	193.6	16.5	8.5	194	154 - 233	222	46.8	4.2	9.1	48	37 - 57
All Alfa Wassermann Reagents	36	179.1	5.4	3.0	179	143 - 215	36	41.3	2.4	5.7	41	33 - 50
All Horiba Pentra Reagents	20	200.2	8.4	4.2	201	160 - 241	20	49.6	2.6	5.3	50	39 - 60
All Roche Reagents	24	198.7	6.2	3.1	199	158 - 239	24	48.0	1.7	3.4	49	38 - 58
All Vital Diagnostics Reagents	17	200.8	11.3	5.6	199	160 - 241	17	50.5	4.1	8.1	51	40 - 61
Abaxis Piccolo												
Abaxis Piccolo - waived	19	189.1	2.1	1.1	190	151 - 227	20	50.2	1.7	3.3	50	40 - 61
All Chemistry Instruments	27	189.3	3.8	2.0	190	151 - 228	28	50.3	1.9	3.9	50	40 - 61
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	179.0	5.7	3.2	179	143 - 215	30	41.3	2.6	6.3	41	33 - 50
Beckman AU												
Beckman AU systems	36	172.0	5.1	3.0	172	137 - 207	37	42.4	1.4	3.4	43	33 - 51
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	200.2	8.4	4.2	201	160 - 241	20	49.6	2.6	5.3	50	39 - 60
Roche Integra												
Roche Integra	17	198.3	6.9	3.5	198	158 - 238	17	47.7	1.8	3.7	48	38 - 58
Siemens Healthcare												
Siemens Dimension	38	200.0	5.8	2.9	200	160 - 241	38	48.2	2.8	5.7	48	38 - 58
All Chemistry Instruments	40	200.1	5.7	2.8	200	160 - 241	40	48.2	2.7	5.7	48	38 - 58
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	202.2	10.0	4.9	203	161 - 243	16	51.0	3.7	7.3	51	40 - 62
VITROS												
VITROS 250,350,500,700,750,950	37	216.8	7.0	3.2	217	173 - 261	37	49.0	1.8	3.6	49	39 - 59
All Chemistry Instruments	44	216.5	6.8	3.1	216	173 - 260	44	48.7	1.8	3.7	48	38 - 59

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	203	75.9	6.2	8.2	78	60 - 92	204	163.8	13.6	8.3	167	131 - 197
All Alfa Wassermann Reagents	36	68.7	2.9	4.2	69	54 - 83	36	151.7	4.7	3.1	152	121 - 183
All Horiba Pentra Reagents	20	80.6	3.2	3.9	80	64 - 97	20	170.7	7.2	4.2	171	136 - 205
All Roche Reagents	24	79.0	2.6	3.3	79	63 - 95	24	168.7	5.5	3.3	169	134 - 203
All Vital Diagnostics Reagents	17	81.1	4.7	5.8	81	64 - 98	17	170.5	8.9	5.2	169	136 - 205
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	78	62 - 95	4	-	-	-	161	129 - 194
All Chemistry Instruments	10	78.6	2.5	3.2	78	62 - 95	10	161.5	3.3	2.0	163	129 - 194
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	68.8	2.9	4.3	68	55 - 83	30	151.5	5.0	3.3	152	121 - 182
Beckman AU												
Beckman AU systems	36	68.7	2.2	3.2	69	54 - 83	37	146.4	4.7	3.2	146	117 - 176
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	80.6	3.2	3.9	80	64 - 97	20	170.7	7.2	4.2	171	136 - 205
Roche Integra												
Roche Integra	17	78.9	2.9	3.7	79	63 - 95	17	168.5	6.0	3.5	168	134 - 203
Siemens Healthcare												
Siemens Dimension	38	79.0	3.4	4.3	79	63 - 95	38	170.0	5.4	3.2	170	135 - 204
All Chemistry Instruments	40	78.9	3.4	4.3	79	63 - 95	40	170.0	5.3	3.1	170	135 - 204
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	81.7	4.2	5.1	82	65 - 99	16	171.2	8.7	5.1	170	136 - 206
VITROS												
VITROS 250,350,500,700,750,950	37	80.6	3.3	4.0	81	64 - 97	37	180.9	5.6	3.1	181	144 - 218
All Chemistry Instruments	44	80.4	3.1	3.9	81	64 - 97	44	180.3	5.5	3.1	181	144 - 217

AST (SGOT) (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	203	253.7	26.9	10.6	253	202 - 305
All Alfa Wassermann Reagents	36	233.1	6.9	3.0	232	186 - 280
All Horiba Pentra Reagents	20	258.9	11.0	4.3	260	207 - 311
All Roche Reagents	24	256.6	8.3	3.2	257	205 - 308
All Vital Diagnostics Reagents	17	257.2	14.4	5.6	252	205 - 309
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	245	194 - 293
All Chemistry Instruments	10	243.7	6.7	2.7	245	194 - 293
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	232.5	7.2	3.1	231	185 - 279
Beckman AU						
Beckman AU systems	37	223.1	7.7	3.5	223	178 - 268
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	258.9	11.0	4.3	260	207 - 311
Roche Integra						
Roche Integra	17	255.9	9.1	3.6	256	204 - 308
Siemens Healthcare						
Siemens Dimension	38	260.4	8.0	3.1	259	208 - 313
All Chemistry Instruments	40	260.4	7.8	3.0	260	208 - 313
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	258.8	13.2	5.1	254	207 - 311
VITROS						
VITROS 250,350,500,700,750,950	37	295.8	10.2	3.5	295	236 - 356
All Chemistry Instruments	44	295.1	10.4	3.5	295	236 - 355

Creatine Kinase (IU/L)

	Specimen CH-11						Specimen CH-12					
<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	103	218.8	15.8	7.2	219	153 - 285	102	53.8	4.6	8.6	54	37 - 70
All Alfa Wassermann Reagents	14	220.0	5.8	2.6	219	154 - 286	14	59.3	4.8	8.0	60	41 - 78
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	219.5	6.5	3.0	219	153 - 286	10	57.4	3.4	5.9	58	40 - 75
Beckman AU												
Beckman AU systems	21	203.3	6.6	3.3	204	142 - 265	21	47.9	2.3	4.7	48	33 - 63
Siemens Healthcare CKI												
Siemens Dimension	20	230.4	6.1	2.6	231	161 - 300	20	53.9	2.1	3.8	54	37 - 71
VITROS												
VITROS 250,350,500,700,750,950	10	204.6	10.7	5.2	205	143 - 266	10	55.5	3.5	6.3	55	38 - 73
All Chemistry Instruments	14	203.7	10.9	5.4	205	142 - 265	14	55.4	3.6	6.6	55	38 - 72

GGT (IU/L)

Specimen CH-11							Specimen CH-12					
<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	65	139.8	31.0	22.1	128	77 - 202	65	38.7	9.9	25.5	33	18 - 59
All Roche Reagents	11	121.4	2.6	2.2	121	97 - 146	11	32.1	0.9	2.9	32	25 - 39
Beckman AU												
Beckman AU systems	10	112.2	4.6	4.1	112	89 - 135	10	30.1	1.3	4.3	30	24 - 37
Siemens Healthcare												
Siemens Dimension	12	164.9	3.9	2.4	166	131 - 198	12	49.7	1.7	3.4	50	39 - 60
All Chemistry Instruments	14	164.5	4.2	2.6	166	131 - 198	14	48.8	2.7	5.6	50	39 - 59
Specimen CH-13							Specimen CH-14					
All Method	63	59.9	14.8	24.7	54	30 - 90	63	120.6	27.5	22.8	109	65 - 176
All Roche Reagents	11	50.1	1.1	2.3	50	40 - 61	11	103.8	2.0	2.0	104	83 - 125
Beckman AU												
Beckman AU systems	10	46.3	1.7	3.7	46	37 - 56	10	96.1	4.1	4.3	96	76 - 116
Siemens Healthcare												
Siemens Dimension	12	73.3	2.0	2.7	73	58 - 88	12	142.3	2.9	2.1	142	113 - 171
All Chemistry Instruments	14	72.3	3.2	4.5	73	57 - 87	14	141.4	3.5	2.5	142	113 - 170
Specimen CH-15												
All Method	63	179.4	38.2	21.3	173	103 - 256						
All Roche Reagents	11	155.8	4.3	2.7	155	124 - 187						
Beckman AU												
Beckman AU systems	10	144.6	6.2	4.3	144	115 - 174						
Siemens Healthcare												
Siemens Dimension	12	210.1	4.5	2.1	211	168 - 253						
All Chemistry Instruments	14	209.7	4.8	2.3	211	167 - 252						

Amylase (IU/L)

Specimen CH-11							Specimen CH-12					
<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	83	109.5	24.0	21.9	118	76 - 143	82	31.7	4.0	12.5	32	22 - 42
All Roche Reagents	11	119.5	2.0	1.6	120	83 - 156	11	33.9	0.8	2.5	34	23 - 45
Beckman AU												
Beckman AU systems	16	97.4	6.7	6.9	97	68 - 127	16	25.5	1.6	6.2	25	17 - 34
Siemens Healthcare												
Siemens Dimension	11	135.6	2.5	1.8	136	94 - 177	11	34.5	1.2	3.5	35	24 - 45
VITROS												
VITROS 250,350,500,700,750,950	14	72.8	3.2	4.4	73	50 - 95	13	30.0	0.1	0.0	30	21 - 39
All Chemistry Instruments	18	72.9	3.6	4.9	73	51 - 95	17	30.0	0.1	0.0	30	21 - 39
Specimen CH-13							Specimen CH-14					
All Method	80	45.9	9.7	21.1	50	32 - 60	79	93.4	20.0	21.5	101	65 - 122
All Roche Reagents	11	50.6	1.4	2.7	50	35 - 66	11	101.6	2.1	2.1	101	71 - 133
Beckman AU												
Beckman AU systems	16	40.0	2.8	7.0	40	28 - 52	16	82.9	5.1	6.2	84	58 - 108
Siemens Healthcare												
Siemens Dimension	11	54.8	1.7	3.0	55	38 - 72	11	115.2	1.9	1.6	115	80 - 150
VITROS												
VITROS 250,350,500,700,750,950	14	32.7	3.6	10.9	31	22 - 43	14	65.1	1.9	3.0	65	45 - 85
All Chemistry Instruments	18	32.1	3.3	10.4	31	22 - 42	17	64.9	1.9	3.0	64	45 - 85
Specimen CH-15												
All Method	83	177.2	36.6	20.7	190	124 - 231						
All Roche Reagents	10	191.4	3.2	1.7	191	133 - 249						
Beckman AU												
Beckman AU systems	17	156.1	9.2	5.9	155	109 - 203						
Siemens Healthcare												
Siemens Dimension	11	214.9	3.9	1.8	215	150 - 280						
VITROS												
VITROS 250,350,500,700,750,950	14	121.8	5.0	4.1	121	85 - 159						
All Chemistry Instruments	17	122.1	5.3	4.3	121	85 - 159						

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	59	493.7	57.0	11.5	527	394 - 593	59	128.7	14.7	11.4	137	102 - 155
All Alfa Wassermann Reagents	12	351.8	15.1	4.3	352	281 - 423	12	97.3	3.4	3.5	98	77 - 117
All Horiba Pentra Reagents	14	552.7	33.2	6.0	540	442 - 664	14	144.7	12.2	8.4	140	115 - 174
All Roche Reagents	17	530.2	10.1	1.9	527	424 - 637	17	139.1	3.9	2.8	139	111 - 167
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	351.8	15.1	4.3	352	281 - 423	12	97.3	3.4	3.5	98	77 - 117
Beckman AU												
Beckman AU systems	12	449.2	22.9	5.1	443	359 - 540	12	115.4	5.6	4.9	115	92 - 139
All Chemistry Instruments	13	449.6	22.0	4.9	443	359 - 540	13	115.4	5.4	4.7	115	92 - 139
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	552.7	33.2	6.0	540	442 - 664	14	144.7	12.2	8.4	140	115 - 174
Roche cobas c 501												
Roche cobas 6000 / c 501	10	531.6	14.3	2.7	529	425 - 638	10	136.8	5.2	3.8	138	109 - 165
Roche Integra												
Roche Integra	11	529.8	9.0	1.7	527	423 - 636	11	140.1	3.1	2.2	140	112 - 169
Siemens Healthcare LDI												
Siemens Dimension	10	512.3	15.1	3.0	511	409 - 615	10	132.1	5.0	3.8	132	105 - 159
All Chemistry Instruments	11	514.8	15.6	3.0	514	411 - 618	11	132.4	4.7	3.5	133	105 - 159
VITROS												
VITROS 250,350,500,700,750,950	12	1606.6	52.2	3.2	1583	1285 - 1928	12	412.3	15.1	3.7	406	329 - 495
VITROS 5600	10	1563.6	41.9	2.7	1578	1250 - 1877	10	401.2	9.0	2.2	406	320 - 482
All Chemistry Instruments	22	1590.1	51.5	3.2	1579	1272 - 1909	22	408.0	13.8	3.4	406	326 - 490

Lactate Dehydrogenase (IU/L)

Specimen CH-13							Specimen CH-14					
All Method	59	203.6	24.0	11.8	217	162 - 245	59	422.9	48.1	11.4	450	338 - 508
All Alfa Wassermann Reagents	12	148.0	9.3	6.3	150	118 - 178	12	306.3	4.4	1.4	306	245 - 368
All Horiba Pentra Reagents	14	225.2	20.4	9.1	218	180 - 271	14	474.0	31.7	6.7	464	379 - 569
All Roche Reagents	17	220.4	4.7	2.2	221	176 - 265	17	453.2	8.5	1.9	453	362 - 544
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	148.0	9.3	6.3	150	118 - 178	12	306.3	4.4	1.4	306	245 - 368
Beckman AU												
Beckman AU systems	12	183.1	8.1	4.4	181	146 - 220	12	383.6	18.4	4.8	379	306 - 461
All Chemistry Instruments	13	183.2	7.8	4.2	182	146 - 220	13	383.5	17.6	4.6	379	306 - 461
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	225.2	20.4	9.1	218	180 - 271	14	474.0	31.7	6.7	464	379 - 569
Roche cobas c 501												
Roche cobas 6000 / c 501	10	217.8	6.3	2.9	218	174 - 262	10	449.0	13.0	2.9	446	359 - 539
Roche Integra												
Roche Integra	11	221.6	3.9	1.7	221	177 - 266	11	455.5	5.6	1.2	455	364 - 547
Siemens Healthcare LDI												
Siemens Dimension	10	210.1	8.8	4.2	208	168 - 253	10	440.9	7.6	1.7	439	352 - 530
All Chemistry Instruments	11	210.0	8.1	3.9	209	168 - 252	11	441.4	7.2	1.6	439	353 - 530
VITROS												
VITROS 250,350,500,700,750,950	12	660.5	13.8	2.1	659	528 - 793	12	1356.4	32.6	2.4	1346	1085 - 1628
VITROS 5600	10	645.6	20.9	3.2	647	516 - 775	10	1333.4	51.4	3.9	1310	1066 - 1601
All Chemistry Instruments	22	654.8	17.7	2.7	657	523 - 786	22	1347.5	40.5	3.0	1344	1078 - 1618
Specimen CH-15												
All Method	59	631.4	71.7	11.4	669	505 - 758						
All Alfa Wassermann Reagents	12	456.5	9.3	2.0	456	365 - 548						
All Horiba Pentra Reagents	14	705.0	42.5	6.0	691	564 - 846						
All Roche Reagents	17	672.8	14.0	2.1	675	538 - 808						
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	456.5	9.3	2.0	456	365 - 548						
Beckman AU												
Beckman AU systems	12	578.0	26.8	4.6	571	462 - 694						
All Chemistry Instruments	13	578.2	25.6	4.4	574	462 - 694						
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	705.0	42.5	6.0	691	564 - 846						
Roche cobas c 501												
Roche cobas 6000 / c 501	10	675.4	24.2	3.6	677	540 - 811						
Roche Integra												
Roche Integra	11	671.5	8.7	1.3	668	537 - 806						
Siemens Healthcare LDI												
Siemens Dimension	10	663.1	20.6	3.1	658	530 - 796						
All Chemistry Instruments	11	665.1	19.9	3.0	665	532 - 799						
VITROS												
VITROS 250,350,500,700,750,950	12	2133.3	60.5	2.8	2119	1706 - 2560						
VITROS 5600	10	1980.8	70.3	3.5	1972	1584 - 2377						
All Chemistry Instruments	22	2074.6	98.7	4.8	2095	1659 - 2490						

Lipase (IU/L)

Specimen CH-11							Specimen CH-12					
<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	28	45.0	4.6	10.2	47	31 - 59	28	22.3	5.2	23.2	25	15 - 29
All Roche Reagents	12	45.4	2.8	6.1	46	31 - 59	12	23.5	1.5	6.4	24	16 - 31
Beckman AU												
Beckman AU systems	10	46.3	4.4	9.5	47	32 - 61	10	19.5	2.5	12.8	20	13 - 26
Siemens Healthcare												
Siemens Dimension	11	196.9	15.5	7.9	192	137 - 256	11	99.3	7.1	7.2	100	69 - 130
VITROS												
VITROS 250,350,500,700,750,950	10	562.3	22.8	4.0	569	393 - 731	10	303.7	12.4	4.1	303	212 - 395
All Chemistry Instruments	11	554.1	25.9	4.7	564	387 - 721	11	300.5	13.4	4.4	301	210 - 391
Specimen CH-13							Specimen CH-14					
All Method	28	26.3	3.7	14.1	29	18 - 35	28	41.0	5.4	13.3	44	28 - 54
All Roche Reagents	12	28.3	1.8	6.5	29	19 - 37	12	41.0	2.4	6.0	41	28 - 54
Beckman AU												
Beckman AU systems	10	24.9	2.5	9.9	25	17 - 33	10	40.8	3.3	8.1	42	28 - 54
Siemens Healthcare												
Siemens Dimension	11	119.7	8.6	7.2	120	83 - 156	11	174.0	11.4	6.6	172	121 - 227
VITROS												
VITROS 250,350,500,700,750,950	10	357.6	15.0	4.2	358	250 - 465	10	513.3	21.9	4.3	518	359 - 668
All Chemistry Instruments	11	354.1	15.9	4.5	358	247 - 461	11	506.0	23.4	4.6	512	354 - 658
Specimen CH-15												
All Method	28	53.4	5.1	9.6	57	37 - 70						
All Roche Reagents	12	53.0	3.4	6.4	53	37 - 69						
Beckman AU												
Beckman AU systems	10	56.3	3.4	6.0	58	39 - 74						
Siemens Healthcare												
Siemens Dimension	11	228.7	22.7	9.9	223	160 - 298						
VITROS												
VITROS 250,350,500,700,750,950	10	664.4	31.2	4.7	673	465 - 864						
All Chemistry Instruments	11	653.4	33.5	5.1	666	457 - 850						

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	191.20	21.17	11.1	194.8	127.6 - 254.8	6	33.28	3.84	11.5	34.3	21.7 - 44.9
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	65.50	7.56	11.5	67.6	42.8 - 88.2	6	159.43	17.12	10.7	162.1	108.0 - 210.8
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	248.48	24.51	9.9	253.6	174.9 - 322.1						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	21.72	1.91	8.8	21.9	16.2 - 27.2	13	7.59	0.50	6.6	7.6	5.6 - 9.5
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	10.46	0.72	6.9	10.4	7.8 - 13.1	13	18.46	1.52	8.2	18.7	13.8 - 23.1
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	26.39	2.38	9.0	26.1	19.7 - 33.0						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	43.84	3.44	7.9	43.0	33.5 - 54.2	16	49.36	4.93	10.0	49.8	34.5 - 64.2
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	48.43	4.76	9.8	47.4	34.1 - 62.7	16	45.13	3.72	8.2	44.3	33.9 - 56.3
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	42.32	4.33	10.2	40.9	29.3 - 55.4						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	1.64	0.35	21.5	1.7	0.5 - 2.7	35	1.12	0.13	11.8	1.2	0.7 - 1.6
All Abbott Instruments	12	1.36	0.15	11.1	1.4	0.9 - 1.9	12	1.16	0.10	8.4	1.2	0.8 - 1.5
All TOSOH Instruments	12	3.96	0.37	9.3	4.1	2.8 - 5.1	12	2.49	0.20	7.9	2.5	1.8 - 3.1
Abbott Architect	10	1.36	0.15	11.1	1.4	0.9 - 1.9	10	1.16	0.10	8.4	1.2	0.8 - 1.5
Beckman ACCESS / 2 / Dxl	13	1.78	0.30	16.8	1.7	0.8 - 2.7	13	1.07	0.14	13.4	1.0	0.6 - 1.6
TOSOH ST AIA	10	3.90	0.35	9.0	4.1	2.8 - 5.0	10	2.45	0.21	8.5	2.5	1.8 - 3.1
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	1.26	0.21	17.0	1.3	0.6 - 2.0	35	1.59	0.27	16.7	1.6	0.7 - 2.4
All Abbott Instruments	12	1.31	0.09	6.8	1.3	1.0 - 1.6	12	1.50	0.10	6.7	1.5	1.2 - 1.8
All TOSOH Instruments	12	2.90	0.25	8.6	3.0	2.1 - 3.7	12	3.74	0.28	7.6	3.8	2.8 - 4.6
Abbott Architect	10	1.31	0.09	6.8	1.3	1.0 - 1.6	10	1.50	0.10	6.7	1.5	1.2 - 1.8
Beckman ACCESS / 2 / Dxl	13	1.24	0.23	18.8	1.2	0.5 - 2.0	13	1.64	0.25	15.1	1.6	0.8 - 2.4
TOSOH ST AIA	10	2.90	0.27	9.3	3.0	2.0 - 3.8	10	3.68	0.31	8.3	3.8	2.7 - 4.7
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	35	1.84	0.39	21.5	1.9	0.6 - 3.1						
All Abbott Instruments	12	1.49	0.09	6.1	1.5	1.2 - 1.8						
All TOSOH Instruments	12	4.46	0.41	9.3	4.5	3.2 - 5.8						
Abbott Architect	10	1.49	0.09	6.1	1.5	1.2 - 1.8						
Beckman ACCESS / 2 / Dxl	13	2.04	0.34	16.7	1.9	1.0 - 3.1						
TOSOH ST AIA	10	4.45	0.48	10.9	4.6	2.9 - 6.0						

Free T₃ (pg/mL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	47	4.11	0.59	14.3	4.2	2.3 - 5.9	47	2.95	0.48	16.3	3.1	1.5 - 4.5
All Abbott Instruments	11	4.16	0.75	18.0	4.4	1.9 - 6.5	11	3.64	0.30	8.4	3.7	2.7 - 4.6
All TOSOH Instruments	12	8.72	0.77	8.9	8.8	6.3 - 11.1	12	4.98	0.53	10.7	5.0	3.3 - 6.6
Abbott Architect	10	4.16	0.75	18.0	4.4	1.9 - 6.5	10	3.64	0.30	8.4	3.7	2.7 - 4.6
Beckman ACCESS / 2 / Dxl	20	3.82	0.24	6.2	3.9	3.1 - 4.6	20	2.69	0.26	9.5	2.8	1.9 - 3.5
TOSOH ST AIA	10	8.60	0.92	10.7	8.7	5.8 - 11.4	10	4.97	0.63	12.6	5.1	3.0 - 6.9
Specimen CH-13							Specimen CH-14					
All Method	47	3.39	0.53	15.5	3.5	1.8 - 5.0	47	4.04	0.59	14.6	4.1	2.2 - 5.9
All Abbott Instruments	11	4.10	0.50	12.2	4.2	2.6 - 5.6	11	4.54	0.47	10.3	4.6	3.1 - 6.0
All TOSOH Instruments	12	6.16	0.34	5.6	6.3	5.1 - 7.2	12	8.06	0.50	6.2	8.1	6.5 - 9.6
Abbott Architect	10	4.10	0.50	12.2	4.2	2.6 - 5.6	10	4.54	0.47	10.3	4.6	3.1 - 6.0
Beckman ACCESS / 2 / Dxl	20	3.08	0.22	7.0	3.1	2.4 - 3.8	20	3.63	0.23	6.3	3.7	2.9 - 4.4
TOSOH ST AIA	10	6.15	0.38	6.2	6.2	4.9 - 7.4	10	8.02	0.62	7.8	7.9	6.1 - 9.9
Specimen CH-15												
All Method	47	4.38	0.60	13.7	4.3	2.5 - 6.2						
All Abbott Instruments	11	4.46	0.32	7.2	4.3	3.4 - 5.5						
All TOSOH Instruments	12	9.81	0.59	6.0	9.7	8.0 - 11.6						
Abbott Architect	10	4.46	0.32	7.2	4.3	3.4 - 5.5						
Beckman ACCESS / 2 / Dxl	20	4.04	0.21	5.2	4.1	3.4 - 4.7						
TOSOH ST AIA	10	9.75	0.71	7.3	9.6	7.6 - 11.9						

Thyroxine (µg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	10.67	0.85	7.9	10.4	8.5 - 12.9	20	6.76	0.43	6.4	6.9	5.4 - 8.2
Beckman ACCESS / 2 / Dxl	12	10.29	0.48	4.7	10.3	8.2 - 12.4	12	7.25	0.43	6.0	7.1	5.8 - 8.7
Specimen CH-13							Specimen CH-14					
All Method	19	7.42	0.58	7.7	7.7	5.9 - 9.0	20	9.46	1.07	11.4	10.0	7.5 - 11.4
Beckman ACCESS / 2 / Dxl	12	8.07	0.46	5.8	8.0	6.4 - 9.7	12	10.18	0.36	3.6	10.2	8.1 - 12.3
Specimen CH-15												
All Method	19	11.77	0.87	7.4	11.5	9.4 - 14.2						
Beckman ACCESS / 2 / Dxl	12	11.59	0.54	4.7	11.4	9.2 - 14.0						

Free Thyroxine (ng/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	159	2.71	0.48	17.6	2.8	1.2 - 4.2	158	2.69	0.39	14.7	2.6	1.5 - 3.9
All Roche Instruments	10	2.88	0.09	3.2	2.9	2.6 - 3.2	10	2.69	0.12	4.5	2.7	2.3 - 3.1
All TOSOH Instruments	34	3.23	0.27	8.2	3.3	2.4 - 4.1	33	3.16	0.22	6.9	3.2	2.5 - 3.9
Abbott Architect	16	2.78	0.34	12.4	2.9	1.7 - 3.9	16	2.21	0.14	6.1	2.2	1.8 - 2.7
Beckman ACCESS / 2 / Dxl	58	2.20	0.11	4.9	2.2	1.8 - 2.6	58	2.43	0.11	4.7	2.4	2.0 - 2.8
Siemens Dimension	22	2.90	0.15	5.1	2.9	2.4 - 3.4	22	2.83	0.17	6.0	2.9	2.3 - 3.4
TOSOH AIA	17	3.19	0.29	9.0	3.3	2.3 - 4.1	17	3.08	0.22	7.2	3.1	2.4 - 3.8
TOSOH ST AIA	17	3.26	0.24	7.5	3.3	2.5 - 4.0	17	3.31	0.27	8.1	3.3	2.5 - 4.2

Specimen CH-13							Specimen CH-14					
<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	159	2.65	0.39	14.7	2.6	1.4 - 3.9	159	2.71	0.44	16.3	2.8	1.3 - 4.1
All Roche Instruments	10	2.75	0.12	4.3	2.8	2.3 - 3.2	10	2.90	0.09	3.3	2.9	2.6 - 3.2
All TOSOH Instruments	34	3.11	0.24	7.7	3.2	2.3 - 3.9	33	3.24	0.21	6.6	3.3	2.5 - 3.9
Abbott Architect	16	2.35	0.15	6.4	2.4	1.8 - 2.9	16	2.71	0.20	7.2	2.7	2.1 - 3.4
Beckman ACCESS / 2 / Dxl	58	2.33	0.10	4.3	2.3	2.0 - 2.7	58	2.24	0.11	4.8	2.3	1.9 - 2.6
Siemens Dimension	22	2.85	0.17	6.0	2.9	2.3 - 3.4	22	2.92	0.20	6.9	2.9	2.3 - 3.6
TOSOH AIA	17	3.02	0.26	8.5	3.0	2.2 - 3.8	17	3.16	0.32	10.2	3.3	2.1 - 4.2
TOSOH ST AIA	17	3.20	0.18	5.6	3.2	2.6 - 3.8	17	3.27	0.15	4.7	3.3	2.8 - 3.8

Specimen CH-15						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	159	2.80	0.52	18.4	2.9	1.2 - 4.4
All Roche Instruments	10	3.04	0.10	3.2	3.1	2.7 - 3.4
All TOSOH Instruments	34	3.30	0.22	6.6	3.4	2.6 - 4.0
Abbott Architect	16	3.08	0.27	8.7	3.1	2.2 - 3.9
Beckman ACCESS / 2 / Dxl	58	2.21	0.11	5.0	2.2	1.8 - 2.6
Siemens Dimension	22	2.98	0.15	4.9	3.0	2.5 - 3.5
TOSOH AIA	17	3.25	0.26	8.1	3.3	2.4 - 4.1
TOSOH ST AIA	17	3.35	0.15	4.5	3.4	2.8 - 3.8

TSH (μU/mL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	214	6.45	0.86	13.4	6.3	3.8 - 9.1	211	2.61	0.36	13.8	2.5	1.5 - 3.7
All Abbott Instruments	16	5.86	0.17	2.9	5.8	5.3 - 6.4	16	2.34	0.09	3.8	2.4	2.0 - 2.7
All Roche Instruments	12	6.31	0.27	4.2	6.4	5.5 - 7.2	12	2.77	0.19	6.9	2.8	2.1 - 3.4
All TOSOH Instruments	51	7.39	0.48	6.5	7.4	5.9 - 8.9	51	3.01	0.22	7.4	3.0	2.3 - 3.7
Abbott Architect	16	5.86	0.17	2.9	5.8	5.3 - 6.4	16	2.34	0.09	3.8	2.4	2.0 - 2.7
Beckman ACCESS / 2 / Dxl	66	5.99	0.39	6.6	6.0	4.8 - 7.2	68	2.38	0.12	5.1	2.4	2.0 - 2.8
Qualigen FastPack	11	6.75	0.73	10.9	6.6	4.5 - 9.0	11	2.78	0.25	9.1	2.8	2.0 - 3.6
Siemens Dimension	28	5.93	0.39	6.6	6.0	4.7 - 7.2	28	2.37	0.16	6.8	2.4	1.8 - 2.9
TOSOH AIA	25	7.39	0.54	7.3	7.4	5.7 - 9.1	25	2.96	0.23	7.7	2.9	2.2 - 3.7
TOSOH ST AIA	26	7.38	0.43	5.8	7.4	6.1 - 8.7	25	3.09	0.16	5.3	3.1	2.5 - 3.6

Specimen CH-13							Specimen CH-14					
All Method	211	3.43	0.48	13.9	3.3	1.9 - 4.9	212	5.71	0.75	13.1	5.6	3.4 - 8.0
All Abbott Instruments	17	3.02	0.10	3.4	3.1	2.7 - 3.4	17	5.17	0.20	3.8	5.2	4.5 - 5.8
All Roche Instruments	12	3.62	0.19	5.1	3.6	3.0 - 4.2	12	5.73	0.21	3.6	5.8	5.1 - 6.4
All TOSOH Instruments	50	3.97	0.26	6.6	4.0	3.1 - 4.8	50	6.54	0.37	5.7	6.6	5.4 - 7.7
Abbott Architect	17	3.02	0.10	3.4	3.1	2.7 - 3.4	17	5.17	0.20	3.8	5.2	4.5 - 5.8
Beckman ACCESS / 2 / Dxl	68	3.12	0.20	6.4	3.1	2.5 - 3.8	66	5.29	0.37	6.9	5.3	4.1 - 6.4
Qualigen FastPack	11	3.71	0.39	10.4	3.8	2.5 - 4.9	11	5.89	1.02	17.3	6.3	2.8 - 9.0
Siemens Dimension	28	3.08	0.21	6.8	3.2	2.4 - 3.8	28	5.14	0.38	7.4	5.2	3.9 - 6.3
TOSOH AIA	25	3.95	0.28	7.1	4.0	3.1 - 4.8	25	6.50	0.42	6.5	6.6	5.2 - 7.8
TOSOH ST AIA	24	4.02	0.19	4.7	4.0	3.4 - 4.6	25	6.58	0.32	4.9	6.6	5.6 - 7.6

Specimen CH-15						
All Method	214	7.80	1.01	12.9	7.6	4.7 - 10.9
All Abbott Instruments	17	7.10	0.23	3.2	7.1	6.4 - 7.8
All Roche Instruments	12	7.50	0.30	4.0	7.5	6.6 - 8.4
All TOSOH Instruments	50	8.92	0.52	5.9	9.0	7.3 - 10.5
Abbott Architect	17	7.10	0.23	3.2	7.1	6.4 - 7.8
Beckman ACCESS / 2 / Dxl	67	7.31	0.60	8.2	7.2	5.5 - 9.2
Qualigen FastPack	11	8.10	0.66	8.2	8.1	6.1 - 10.1
Siemens Dimension	28	7.17	0.60	8.4	7.3	5.3 - 9.0
TOSOH AIA	25	8.82	0.58	6.6	8.9	7.0 - 10.6
TOSOH ST AIA	24	9.07	0.35	3.9	9.1	8.0 - 10.2

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-11		Specimen HCG-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	152	152	-
AimStep Combo Pregnancy	-	1	1	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 25 hCG	-	4	4	-
bioMerieux Vidas, Mini Vidas	-	1	1	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	11	11	-
CONSULT diagnostics hCG Combo	-	12	12	-
Henry Schein One Step + Combo	-	7	7	-
McKesson hCG Combo Cassette	-	1	1	-
Medline hCG Combo Test Cassette	-	2	2	-
NDC Pro Advantage	-	1	1	-
Polymedco Poly stat hCG	-	1	1	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	11	11	-
Quidel QuickVue One-Step Combo	-	84	84	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	3	3	-

	Specimen HCG-13		Specimen HCG-14	
ALL METHODS	152	-	1	151
AimStep Combo Pregnancy	1	-	-	1
Beckman ACCESS / 2 / DxI	1	-	-	1
Beckman Coulter ICON 25 hCG	4	-	-	4
bioMerieux Vidas, Mini Vidas	1	-	-	1
BTNX Rapid Response hCG	1	-	-	1
Cardinal Health SP Brand combo	11	-	-	11
CONSULT diagnostics hCG Combo	12	-	-	12
Henry Schein One Step + Combo	7	-	-	7
McKesson hCG Combo Cassette	1	-	-	1
Medline hCG Combo Test Cassette	2	-	-	2
NDC Pro Advantage	1	-	-	1
Polymedco Poly stat hCG	1	-	-	1
PSS Select hCG Combo	2	-	-	2
Quidel QuickVue + One-Step	11	-	1	10
Quidel QuickVue One-Step Combo	84	-	-	84
Quidel QuickVue Semi-Q hCG	1	-	-	1
Sekisui OSOM hCG Combo Test	2	-	-	2
Stanbio QUPID Plus	3	-	-	3

Serum hCG – Qualitative

Specimen HCG-15

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	152	-
AimStep Combo Pregnancy	1	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 25 hCG	4	-
bioMerieux Vidas, Mini Vidas	1	-
BTNX Rapid Response hCG	1	-
Cardinal Health SP Brand combo	11	-
CONSULT diagnostics hCG Combo	12	-
Henry Schein One Step + Combo	7	-
McKesson hCG Combo Cassette	1	-
Medline hCG Combo Test Cassette	2	-
NDC Pro Advantage	1	-
Polymedco Poly stat hCG	1	-
PSS Select hCG Combo	2	-
Quidel QuickVue + One-Step	11	-
Quidel QuickVue One-Step Combo	84	-
Quidel QuickVue Semi-Q hCG	1	-
Sekisui OSOM hCG Combo Test	2	-
Stanbio QUPID Plus	3	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-11						Specimen HCG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	1.7	1.5	88.9	1	0 - 7	30	528.7	79.1	15.0	522	291 - 767
<u>Method</u>	Specimen HCG-13						Specimen HCG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	139.9	11.1	8.0	139	106 - 174	30	1.7	1.5	87.6	1	0 - 7
<u>Method</u>	Specimen HCG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	28	287.2	21.6	7.5	287	222 - 352						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	241	178.5	6.2	3.5	179	160 - 197	240	118.1	6.1	5.2	119	106 - 130
All Alfa Wassermann Reagents	34	182.9	5.4	2.9	183	164 - 202	33	123.1	3.3	2.7	124	110 - 136
All Horiba Pentra Reagents	16	181.0	6.6	3.7	181	162 - 200	16	121.2	5.0	4.1	121	109 - 134
All Roche Reagents	16	179.3	6.1	3.4	178	161 - 198	16	120.5	4.0	3.3	120	108 - 133
All Vital Diagnostics Reagents	16	180.3	4.7	2.6	180	162 - 199	17	121.2	5.3	4.4	121	109 - 134
Alere Cholestech LDX												
Alere Cholestech LDX - waived	32	179.8	7.3	4.1	178	161 - 198	32	115.0	8.1	7.0	115	103 - 127
All Chemistry Instruments	37	179.8	7.1	3.9	178	161 - 198	37	114.8	7.5	6.6	114	103 - 127
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	182.8	5.5	3.0	183	164 - 202	31	122.8	3.2	2.6	124	110 - 136
Beckman AU												
Beckman AU systems	31	177.0	3.9	2.2	178	159 - 195	31	117.9	2.7	2.3	118	106 - 130
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	181.0	6.6	3.7	181	162 - 200	16	121.2	5.0	4.1	121	109 - 134
Roche Integra												
Roche Integra	10	179.7	7.3	4.1	178	161 - 198	10	120.7	4.7	3.9	120	108 - 133
Siemens Healthcare												
Siemens Dimension	32	177.9	4.8	2.7	179	160 - 196	32	120.2	3.8	3.1	120	108 - 133
All Chemistry Instruments	34	177.6	4.9	2.8	179	159 - 196	34	119.8	4.0	3.3	120	107 - 132
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	179.9	4.5	2.5	179	161 - 198	16	121.0	5.4	4.5	121	108 - 134
VITROS												
VITROS 250,350,500,700,750,950	29	172.5	6.4	3.7	173	155 - 190	28	110.3	3.6	3.2	111	99 - 122
All Chemistry Instruments	35	172.6	6.1	3.5	173	155 - 190	34	110.0	3.5	3.2	111	99 - 122

Cholesterol, Total (mg/dL)

Specimen CH-13							Specimen CH-14					
<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	208	130.7	5.5	4.2	131	117 - 144	208	166.5	6.0	3.6	167	149 - 184
All Alfa Wassermann Reagents	33	134.8	3.6	2.6	135	121 - 149	32	170.6	3.4	2.0	171	153 - 188
All Horiba Pentra Reagents	16	132.3	7.2	5.5	133	119 - 146	15	169.7	6.5	3.8	169	152 - 187
All Roche Reagents	16	132.3	4.1	3.1	132	119 - 146	16	168.1	5.4	3.2	167	151 - 185
All Vital Diagnostics Reagents	17	133.2	3.5	2.6	133	119 - 147	17	169.5	6.3	3.7	167	152 - 187
Alere Cholestech LDX												
Alere Cholestech LDX - waived	8	-	-	-	131	117 - 145	8	-	-	-	172	151 - 186
All Chemistry Instruments	9	-	-	-	130	117 - 143	9	-	-	-	169	151 - 186
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	134.7	3.6	2.7	135	121 - 149	30	170.5	3.5	2.1	171	153 - 188
Beckman AU												
Beckman AU systems	31	129.9	2.9	2.2	130	116 - 143	31	165.1	3.8	2.3	165	148 - 182
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	132.3	7.2	5.5	133	119 - 146	15	169.7	6.5	3.8	169	152 - 187
Roche Integra												
Roche Integra	10	132.5	4.9	3.7	131	119 - 146	10	168.2	6.8	4.0	167	151 - 186
Siemens Healthcare												
Siemens Dimension	32	131.8	3.8	2.9	133	118 - 145	32	165.7	4.6	2.8	167	149 - 183
All Chemistry Instruments	34	131.3	4.2	3.2	132	118 - 145	34	165.4	4.6	2.8	166	148 - 182
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	133.3	3.6	2.7	133	119 - 147	16	169.4	6.5	3.8	167	152 - 187
VITROS												
VITROS 250,350,500,700,750,950	29	122.7	4.7	3.8	123	110 - 135	29	160.2	5.8	3.6	161	144 - 177
All Chemistry Instruments	35	122.5	4.4	3.6	122	110 - 135	35	160.2	5.5	3.4	161	144 - 177

Cholesterol, Total (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	209	201.5	6.7	3.3	202	181 - 222
All Alfa Wassermann Reagents	33	205.4	4.3	2.1	205	184 - 226
All Horiba Pentra Reagents	16	204.1	7.7	3.8	204	183 - 225
All Roche Reagents	16	202.7	7.3	3.6	201	182 - 223
All Vital Diagnostics Reagents	17	205.2	6.6	3.2	206	184 - 226
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	209	186 - 228
All Chemistry Instruments	9	-	-	-	207	186 - 228
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	31	205.1	4.3	2.1	205	184 - 226
Beckman AU						
Beckman AU systems	31	199.9	4.6	2.3	201	179 - 220
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	204.1	7.7	3.8	204	183 - 225
Roche Integra						
Roche Integra	10	203.1	9.0	4.4	201	182 - 224
Siemens Healthcare						
Siemens Dimension	31	198.9	4.5	2.3	200	179 - 219
All Chemistry Instruments	33	198.7	4.5	2.3	199	178 - 219
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	205.4	6.8	3.3	207	184 - 226
VITROS						
VITROS 250,350,500,700,750,950	29	196.9	6.8	3.4	196	177 - 217
All Chemistry Instruments	35	197.4	6.5	3.3	197	177 - 218

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	173	65.2	14.1	21.6	66	37 - 94	175	49.0	11.1	22.6	51	26 - 72
Calculated-Trig/5												
Alere Cholestech LDX - waived	25	65.1	8.1	12.5	64	45 - 85	27	54.4	7.8	14.3	55	38 - 71
Alfa Wassermann ACE Alera/Axcel	24	82.5	7.0	8.5	83	57 - 108	24	58.7	5.2	8.8	59	41 - 77
Beckman AU systems	21	68.8	4.8	7.0	69	48 - 90	21	51.0	3.4	6.7	51	35 - 67
Horiba ABX Pentra 400	11	81.9	8.4	10.3	80	57 - 107	11	61.0	5.8	9.5	61	42 - 80
Siemens Dimension	16	48.4	5.4	11.2	51	33 - 63	16	35.0	4.3	12.4	35	24 - 46
Vital Diagnostics Envoy 500	13	70.9	10.9	15.4	69	49 - 93	13	54.0	9.0	16.7	52	35 - 73
VITROS 250,350,500,700,750,950	23	52.2	8.0	15.3	52	36 - 69	23	37.3	6.7	17.9	38	23 - 51
All Chemistry Instruments	164	65.0	14.2	21.9	66	36 - 94	166	48.9	11.2	22.9	51	26 - 72
Specimen CH-13							Specimen CH-14					
All Method	152	51.9	11.9	23.0	54	28 - 76	151	61.5	14.3	23.3	63	32 - 91
Calculated-Trig/5												
Alere Cholestech LDX - waived	8	-	-	-	59	27 - 76	8	-	-	-	66	32 - 91
Alfa Wassermann ACE Alera/Axcel	24	63.8	6.2	9.7	63	44 - 83	24	77.2	7.5	9.7	77	54 - 101
Beckman AU systems	21	55.1	3.7	6.7	55	38 - 72	21	64.7	4.8	7.4	66	45 - 85
Horiba ABX Pentra 400	11	64.9	7.2	11.0	65	45 - 85	11	77.7	8.8	11.4	74	54 - 102
Siemens Dimension	16	37.3	4.2	11.3	38	26 - 49	16	44.1	5.5	12.5	45	30 - 58
Vital Diagnostics Envoy 500	13	57.7	9.5	16.4	56	38 - 77	13	69.2	11.7	16.9	67	45 - 93
VITROS 250,350,500,700,750,950	23	41.0	6.4	15.7	39	28 - 54	23	48.3	7.8	16.1	48	32 - 64
All Chemistry Instruments	143	51.7	12.1	23.4	54	27 - 76	142	61.4	14.6	23.8	63	32 - 91
Specimen CH-15												
All Method	137	72.5	17.7	24.4	74	37 - 108						
Calculated-Trig/5												
Alere Cholestech LDX - waived	1	-	-	-	74	36 - 109						
Alfa Wassermann ACE Alera/Axcel	24	92.3	8.1	8.8	92	64 - 120						
Beckman AU systems	21	75.4	5.7	7.5	76	52 - 98						
Horiba ABX Pentra 400	11	89.6	10.8	12.1	93	62 - 117						
Siemens Dimension	16	51.8	6.6	12.8	54	36 - 68						
Vital Diagnostics Envoy 500	13	78.8	12.5	15.8	78	53 - 104						
VITROS 250,350,500,700,750,950	21	54.1	10.5	19.3	54	33 - 76						
All Chemistry Instruments	129	72.3	18.1	25.0	74	36 - 109						

LDL Cholesterol - Direct (mg/dL)

Specimen CH-11							Specimen CH-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	56.4	12.9	22.9	55	30 - 83	64	36.1	8.8	24.3	36	18 - 54
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	10	48.6	5.4	11.1	48	34 - 64	10	32.0	3.7	11.7	32	22 - 42
Beckman AU Direct HDL / LDL												
Beckman AU systems	13	45.6	2.6	5.6	46	31 - 60	13	28.5	1.9	6.7	29	19 - 37
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	61.0	3.6	5.9	61	42 - 80	11	40.0	4.0	10.0	40	28 - 52
Roche LDL Direct												
All Chemistry Instruments	12	82.1	2.3	2.8	81	57 - 107	12	53.1	1.9	3.6	53	37 - 70
Siemens Automated LDL												
Siemens Dimension	16	59.9	5.9	9.9	58	41 - 78	16	38.9	3.8	9.8	38	27 - 51
Specimen CH-13							Specimen CH-14					
All Method	64	39.8	9.8	24.6	39	20 - 60	64	52.3	12.4	23.7	50	27 - 78
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	10	34.8	4.1	11.7	34	24 - 46	10	45.2	3.7	8.2	45	31 - 59
Beckman AU Direct HDL / LDL												
Beckman AU systems	13	31.8	1.5	4.6	32	22 - 42	13	41.9	2.2	5.2	42	29 - 55
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	42.4	7.9	18.7	44	26 - 59	11	55.8	6.3	11.3	57	39 - 73
Roche LDL Direct												
All Chemistry Instruments	12	58.7	1.6	2.7	58	41 - 77	12	76.6	1.8	2.4	76	53 - 100
Siemens Automated LDL												
Siemens Dimension	16	43.6	4.5	10.4	42	30 - 57	16	56.3	6.1	10.7	54	39 - 74
Specimen CH-15												
All Method	64	64.0	14.4	22.6	60	35 - 93						
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	10	56.4	4.1	7.3	55	39 - 74						
Beckman AU Direct HDL / LDL												
Beckman AU systems	13	52.3	3.0	5.7	53	36 - 69						
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	68.4	7.1	10.3	67	47 - 89						
Roche LDL Direct												
All Chemistry Instruments	12	93.4	1.5	1.6	93	65 - 122						
Siemens Automated LDL												
Siemens Dimension	16	67.9	6.2	9.1	66	47 - 89						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	237	91.2	11.7	12.9	91	63 - 119	234	58.8	9.5	16.1	57	41 - 77
All Dex-Sulfate 50,000 MW Methods	44	93.9	4.8	5.1	94	65 - 123	42	53.0	6.2	11.8	53	37 - 69
All Direct Methods	137	90.5	13.6	15.1	86	63 - 118	137	60.4	10.6	17.6	56	42 - 79
Alere Cholestech LDX												
Alere Cholestech LDX - waived	31	93.7	5.2	5.5	94	65 - 122	29	50.9	5.6	11.0	50	35 - 67
All Chemistry Instruments	35	93.6	5.1	5.4	94	65 - 122	33	51.0	5.3	10.4	51	35 - 67
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	18	77.6	5.3	6.8	79	54 - 101	18	53.7	4.8	8.9	54	37 - 70
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	75.3	2.8	3.7	76	63 - 119	10	52.2	2.7	5.1	52	41 - 77
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	85.4	5.9	6.9	85	59 - 112	23	55.1	4.6	8.3	55	38 - 72
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	77.4	4.7	6.1	78	54 - 101	16	49.7	3.0	6.1	50	34 - 65
Roche HDL Direct												
All Chemistry Instruments	13	105.2	2.0	1.9	106	73 - 137	13	73.0	1.4	1.9	73	51 - 95
Siemens Automated HDL												
Siemens Dimension	28	108.6	3.8	3.5	108	76 - 142	28	75.1	2.4	3.2	75	52 - 98
All Chemistry Instruments	30	108.7	3.7	3.4	108	76 - 142	30	75.2	2.3	3.1	75	52 - 98
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	12	85.3	10.5	12.3	87	59 - 111	12	55.9	7.1	12.7	58	39 - 73
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	23	96.1	5.1	5.3	95	67 - 125	22	60.8	2.6	4.3	61	42 - 80
All Chemistry Instruments	26	96.1	5.4	5.6	95	67 - 125	25	60.9	2.7	4.4	61	42 - 80

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	209	66.0	10.1	15.3	64	46 - 86	208	84.9	12.0	14.1	84	59 - 111
All Dex-Sulfate 50,000 MW Methods	18	62.7	5.3	8.5	64	43 - 82	18	86.9	4.9	5.7	88	60 - 113
All Direct Methods	135	66.6	11.5	17.2	63	46 - 87	134	84.5	13.5	15.9	81	59 - 110
Alere Cholestech LDX												
Alere Cholestech LDX - waived	8	-	-	-	59	43 - 82	8	-	-	-	85	60 - 113
All Chemistry Instruments	9	-	-	-	59	41 - 77	9	-	-	-	86	59 - 111
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	18	58.3	5.2	8.9	58	40 - 76	18	72.8	5.5	7.6	72	50 - 95
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	57.2	2.5	4.4	56	46 - 86	10	72.0	3.6	5.0	72	59 - 111
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	61.0	4.4	7.2	60	42 - 80	23	79.3	5.9	7.4	80	55 - 104
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	55.4	3.9	7.1	55	38 - 72	16	71.3	5.2	7.4	70	49 - 93
Roche HDL Direct												
All Chemistry Instruments	13	80.2	1.8	2.2	81	56 - 105	13	99.4	1.8	1.8	99	69 - 130
Siemens Automated HDL												
Siemens Dimension	28	82.1	2.7	3.3	82	57 - 107	27	102.2	4.0	3.9	102	71 - 133
All Chemistry Instruments	29	81.9	2.2	2.7	82	57 - 107	28	101.8	3.2	3.1	102	71 - 133
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	12	62.1	8.4	13.5	65	43 - 81	12	79.6	10.4	13.1	82	55 - 104
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	23	67.7	4.2	6.2	68	47 - 89	23	90.0	5.0	5.6	90	62 - 117
All Chemistry Instruments	26	67.6	4.2	6.2	68	47 - 88	26	89.9	5.1	5.7	91	62 - 117

Cholesterol, HDL (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	208	102.4	14.1	13.8	100	71 - 134
All Dex-Sulfate 50,000 MW Methods	18	104.0	4.5	4.4	102	72 - 136
All Direct Methods	134	101.6	15.6	15.3	98	71 - 133
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	100	72 - 136
All Chemistry Instruments	9	-	-	-	100	69 - 130
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	18	86.2	7.5	8.7	87	60 - 113
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	87.2	3.7	4.2	89	71 - 134
Beckman AU Direct HDL / LDL						
Beckman AU systems	23	97.0	6.4	6.6	97	67 - 127
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	88.8	6.5	7.4	88	62 - 116
Roche HDL Direct						
All Chemistry Instruments	13	119.0	3.5	2.9	119	83 - 155
Siemens Automated HDL						
Siemens Dimension	26	120.8	2.4	2.0	121	84 - 158
All Chemistry Instruments	28	121.1	2.6	2.1	121	84 - 158
Vital Diagnostics Direct						
Vital Diagnostics Envoy 500	12	97.3	11.9	12.2	101	68 - 127
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	23	112.3	8.1	7.2	110	78 - 146
All Chemistry Instruments	26	110.8	9.0	8.2	110	77 - 145

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	232	114.4	5.9	5.1	114	85 - 144	234	55.8	4.5	8.1	56	41 - 70
All Alfa Wassermann Reagents	33	115.1	3.3	2.9	115	86 - 144	33	60.9	2.3	3.7	61	45 - 77
All Horiba Pentra Reagents	15	113.6	6.7	5.9	112	85 - 142	16	55.7	2.7	4.8	56	41 - 70
All Roche Reagents	17	116.0	4.1	3.5	116	87 - 145	17	58.5	2.9	5.0	59	43 - 74
All Vital Diagnostics Reagents	17	111.4	5.2	4.6	111	83 - 140	17	56.8	5.3	9.3	57	42 - 71
Alere Cholestech LDX												
Alere Cholestech LDX - waived	29	114.4	5.9	5.1	114	85 - 143	30	54.1	3.5	6.4	54	40 - 68
All Chemistry Instruments	33	113.6	6.1	5.4	113	85 - 143	34	54.0	3.4	6.3	54	40 - 68
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	115.1	3.4	2.9	115	86 - 144	31	60.9	2.3	3.8	61	45 - 77
Beckman AU												
Beckman AU systems	32	114.0	3.8	3.3	113	85 - 143	32	56.9	2.3	4.0	56	42 - 72
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	113.6	6.7	5.9	112	85 - 142	16	55.7	2.7	4.8	56	41 - 70
Roche Integra												
Roche Integra	10	114.8	4.8	4.2	113	86 - 144	10	58.4	3.3	5.6	57	43 - 73
Siemens Healthcare												
Siemens Dimension	32	107.3	2.3	2.2	107	80 - 135	32	48.8	2.4	4.9	48	36 - 61
All Chemistry Instruments	32	107.3	2.3	2.2	107	80 - 135	32	48.8	2.4	4.9	48	36 - 61
Vital Diagnostics												
Vital Diagnostics Envoy 500	16	111.1	5.1	4.6	111	83 - 139	16	56.8	5.5	9.6	57	42 - 72
VITROS												
VITROS 250,350,500,700,750,950	29	120.4	3.9	3.2	121	90 - 151	29	55.4	2.5	4.5	56	41 - 70
All Chemistry Instruments	34	120.3	3.7	3.0	121	90 - 151	34	55.4	2.4	4.3	56	41 - 70

Triglycerides (mg/dL)

Specimen CH-13							Specimen CH-14					
<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	206	68.1	4.8	7.1	69	51 - 86	206	103.6	5.4	5.2	104	77 - 130
All Alfa Wassermann Reagents	32	72.4	2.3	3.1	73	54 - 91	32	106.1	2.9	2.7	106	79 - 133
All Horiba Pentra Reagents	16	68.3	3.9	5.8	69	51 - 86	16	104.1	4.6	4.4	104	78 - 131
All Roche Reagents	17	70.9	3.2	4.5	71	53 - 89	17	105.5	4.0	3.7	106	79 - 132
All Vital Diagnostics Reagents	16	67.8	3.4	5.0	68	50 - 85	17	101.7	5.4	5.3	102	76 - 128
Alere Cholestech LDX												
Alere Cholestech LDX - waived	8	-	-	-	67	50 - 84	8	-	-	-	105	78 - 132
All Chemistry Instruments	9	-	-	-	66	49 - 83	9	-	-	-	105	77 - 130
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	72.4	2.3	3.2	73	54 - 91	30	105.9	2.9	2.8	106	79 - 133
Beckman AU												
Beckman AU systems	32	69.0	3.1	4.5	68	51 - 87	31	103.0	3.7	3.6	103	77 - 129
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	68.3	3.9	5.8	69	51 - 86	16	104.1	4.6	4.4	104	78 - 131
Roche Integra												
Roche Integra	10	70.7	3.7	5.3	69	53 - 89	10	104.8	4.9	4.6	103	78 - 131
Siemens Healthcare												
Siemens Dimension	32	60.7	2.4	3.9	61	45 - 76	32	95.9	2.4	2.5	96	71 - 120
All Chemistry Instruments	32	60.7	2.4	3.9	61	45 - 76	34	96.6	3.5	3.6	96	72 - 121
Vital Diagnostics												
Vital Diagnostics Envoy 500	15	67.5	3.3	4.9	68	50 - 85	16	101.8	5.6	5.5	102	76 - 128
VITROS												
VITROS 250,350,500,700,750,950	29	68.6	2.9	4.2	69	51 - 86	29	107.8	3.7	3.4	108	80 - 135
All Chemistry Instruments	34	68.6	2.7	4.0	69	51 - 86	34	107.7	3.5	3.2	108	80 - 135

Triglycerides (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	209	137.2	7.4	5.4	136	102 - 172
All Alfa Wassermann Reagents	33	136.5	3.9	2.9	137	102 - 171
All Horiba Pentra Reagents	16	134.8	7.2	5.4	135	101 - 169
All Roche Reagents	17	137.0	5.2	3.8	137	102 - 172
All Vital Diagnostics Reagents	17	134.4	5.4	4.0	135	100 - 169
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	140	105 - 175
All Chemistry Instruments	9	-	-	-	139	103 - 173
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	31	136.6	4.0	2.9	137	102 - 171
Beckman AU						
Beckman AU systems	32	135.5	4.4	3.3	136	101 - 170
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	134.8	7.2	5.4	135	101 - 169
Roche Integra						
Roche Integra	10	135.6	6.3	4.6	133	101 - 170
Siemens Healthcare						
Siemens Dimension	32	129.1	3.1	2.4	129	96 - 162
All Chemistry Instruments	32	129.1	3.1	2.4	129	96 - 162
Vital Diagnostics						
Vital Diagnostics Envoy 500	16	134.3	5.5	4.1	135	100 - 168
VITROS						
VITROS 250,350,500,700,750,950	29	147.9	4.2	2.9	149	110 - 185
All Chemistry Instruments	34	147.9	4.0	2.7	149	110 - 185

Acetaminophen (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<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	85.00	1.27	1.5	85.0	63.7 - 106.3	5	29.00	2.40	8.3	29.0	21.7 - 36.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<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	39.05	2.33	6.0	39.1	29.2 - 48.9	5	73.60	0.71	1.0	73.6	55.2 - 92.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Labs</u>	<u>Mean</u>	Specimen CH-16			
			<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	107.90	1.41	1.3	107.9	80.9 - 134.9						

Carbamazepine (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<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	9.52	0.60	6.3	9.3	7.1 - 11.9	5	4.22	0.41	9.7	4.1	3.1 - 5.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.22	0.30	5.8	5.1	3.9 - 6.6	5	8.20	0.57	7.0	8.3	6.1 - 10.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Labs</u>	<u>Mean</u>	Specimen CH-16			
			<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	11.16	1.02	9.2	11.5	8.3 - 14.0						

Digoxin (ng/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<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	1.78	0.18	9.8	1.8	1.4 - 2.2	10	0.95	0.10	10.2	0.9	0.7 - 1.2
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<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	1.18	0.20	16.9	1.2	0.9 - 1.5	10	1.62	0.19	11.9	1.6	1.2 - 2.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Labs</u>	<u>Mean</u>	Specimen CH-16			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	2.14	0.28	12.9	2.2	1.7 - 2.6						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	7.25	0.35	4.9	7.3	5.4 - 9.1	5	2.15	0.07	3.3	2.2	1.6 - 2.7
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	3.10	0.14	4.6	3.1	2.3 - 3.9	5	6.30	0.14	2.2	6.3	4.7 - 7.9
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	9.40	0.14	1.5	9.4	7.0 - 11.8						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.60	0.14	8.8	1.6	1.2 - 2.0	5	0.50	0.01	0.0	0.5	0.2 - 0.8
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.70	0.14	20.2	0.7	0.4 - 1.0	5	1.40	0.14	10.1	1.4	1.1 - 1.7
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	2.10	0.14	6.7	2.1	1.6 - 2.6						

Phenobarbital (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	26.35	0.49	1.9	26.4	21.0 - 31.7		5	8.95	0.49	5.5	9.0	7.1 - 10.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	12.55	0.49	3.9	12.6	10.0 - 15.1		5	22.20	0.14	0.6	22.2	17.7 - 26.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Range</u>	<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>								
All Method	5	33.10	0.57	1.7	33.1	26.4 - 39.8							

Phenytoin (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11					Specimen CH-12					
			<u>SD</u>	<u>CV</u>	<u>Median</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	18.91	2.06	10.9	18.4	14.1 - 23.7		11	9.17	0.76	8.2	9.2	6.8 - 11.5
			Specimen CH-13					Specimen CH-14					
All Method	11	11.17	1.03	9.2	11.3	8.3 - 14.0		11	15.06	6.09	40.5	16.5	11.2 - 18.9
			Specimen CH-15										
All Method	11	23.19	1.84	8.0	22.7	17.3 - 29.0							

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	21.1	Not graded	1	-	-	-	8.5	Not graded
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	11.1	Not graded	1	-	-	-	18.7	Not graded
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	25.7	Not graded						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	26.20	3.00	11.5	25.1	19.6 - 32.8	5	12.40	0.90	7.3	12.4	9.3 - 15.5
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	15.30	0.95	6.2	14.8	11.4 - 19.2	5	23.30	2.16	9.3	22.7	17.4 - 29.2
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	31.47	3.35	10.6	30.8	23.6 - 39.4						

Valproic Acid (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	83.43	5.74	6.9	82.1	62.5 - 104.3	6	42.07	2.97	7.1	42.4	31.5 - 52.6
	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	51.00	4.13	8.1	51.1	38.2 - 63.8	6	75.52	4.44	5.9	76.1	56.6 - 94.4
	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	97.35	8.46	8.7	94.7	73.0 - 121.7						

Vancomycin (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11					Specimen CH-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	32.70	4.07	12.5	34.9	24.5 - 40.9		5	7.50	0.44	5.8	7.7	5.6 - 9.4
			Specimen CH-13					Specimen CH-14					
All Method	5	12.47	1.33	10.7	12.8	9.3 - 15.6		5	28.57	3.33	11.7	29.1	21.4 - 35.8
			Specimen CH-15										
All Method	5	43.63	4.27	9.8	44.5	32.7 - 54.6							

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	95	Not graded	1	-	-	-	139	Not graded

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	48.3	5.7	11.8	50	36 - 61	5	69.0	6.0	8.7	69	51 - 87

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	5.64	0.29	5.1	5.5	4.5 - 6.8	27	15.81	0.71	4.5	16.0	12.6 - 19.0
No Reagent Required												
Bilirubinometer / Unistat	16	5.51	0.17	3.0	5.5	4.4 - 6.7	16	16.14	0.39	2.4	16.3	12.9 - 19.4
All Chemistry Instruments	20	5.64	0.39	7.0	5.5	4.5 - 6.8	20	16.06	0.56	3.5	16.1	12.8 - 19.3
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	25	0.04	0.09	197.7	0.0	0.0 - 0.5	26	18.51	0.68	3.7	18.5	14.8 - 22.3
No Reagent Required												
Bilirubinometer / Unistat	16	0.00	0.01	0.0	0.0	0.0 - 0.4	16	18.81	0.47	2.5	18.8	15.0 - 22.6
All Chemistry Instruments	20	0.08	0.17	216.9	0.0	0.0 - 0.5	19	18.77	0.50	2.7	18.8	15.0 - 22.6
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	27	11.17	0.60	5.4	11.2	8.9 - 13.5						
No Reagent Required												
Bilirubinometer / Unistat	16	11.29	0.38	3.4	11.4	9.0 - 13.6						
All Chemistry Instruments	20	11.31	0.56	5.0	11.5	9.0 - 13.6						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	0.84	0.15	17.9	0.8	0.5 - 1.2	10	4.91	0.50	10.1	4.9	3.9 - 6.0
	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	0.03	0.05	161.0	0.0	0.0 - 0.2	10	3.28	0.39	11.9	3.3	2.4 - 4.1
	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	3.64	0.44	12.1	3.5	2.7 - 4.6						

Blood Gases – pH

<u>Method</u>	Specimen BG-11						Specimen BG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.156	0.005	0.1	7.16	7.11 - 7.20	11	7.520	0.012	0.2	7.52	7.48 - 7.56
i-STAT	11	7.156	0.005	0.1	7.16	7.11 - 7.20	11	7.520	0.012	0.2	7.52	7.48 - 7.56
	Specimen BG-13						Specimen BG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.548	0.008	0.1	7.55	7.50 - 7.59	11	7.516	0.005	0.1	7.52	7.47 - 7.56
i-STAT	11	7.548	0.008	0.1	7.55	7.50 - 7.59	11	7.516	0.005	0.1	7.52	7.47 - 7.56
	Specimen BG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	7.156	0.009	0.1	7.15	7.11 - 7.20						
i-STAT	11	7.156	0.009	0.1	7.15	7.11 - 7.20						

Blood Gases - pCO₂ (mmHg)

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	66.78	5.86	8.8	68.4	61.4 - 72.2	12	20.72	0.66	3.2	20.8	15.7 - 25.8
i-STAT	12	66.78	5.86	8.8	68.4	61.4 - 72.2	12	20.72	0.66	3.2	20.8	15.7 - 25.8
Specimen BG-13							Specimen BG-14					
All Method	12	28.28	0.64	2.3	28.4	23.2 - 33.3	12	25.97	1.43	5.5	26.5	20.9 - 31.0
i-STAT	12	28.28	0.64	2.3	28.4	23.2 - 33.3	12	25.97	1.43	5.5	26.5	20.9 - 31.0
Specimen BG-15												
All Method	12	68.83	2.97	4.3	68.6	63.3 - 74.4						
i-STAT	12	68.83	2.97	4.3	68.6	63.3 - 74.4						

Blood Gases - pO₂ (mmHg)

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	88.20	3.19	3.6	89.0	78.6 - 97.8	11	162.00	10.93	6.7	162.0	129.2 - 194.8
i-STAT	11	88.20	3.19	3.6	89.0	78.6 - 97.8	11	162.00	10.93	6.7	162.0	129.2 - 194.8
Specimen BG-13							Specimen BG-14					
All Method	11	105.60	11.26	10.7	106.0	71.8 - 139.4	11	137.20	4.09	3.0	138.0	124.9 - 149.5
i-STAT	11	105.60	11.26	10.7	106.0	71.8 - 139.4	11	137.20	4.09	3.0	138.0	124.9 - 149.5
Specimen BG-15												
All Method	11	86.60	6.27	7.2	88.0	67.7 - 105.5						
i-STAT	11	86.60	6.27	7.2	88.0	67.7 - 105.5						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-11 through BG-15 are: 2.2 mmol/L , 0.8 mmol/L, 0.9 mmol/L, 1.4 mmol/L, and 2.2 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-11 through BG-15 are: 87 mmol/L, 105 mmol/L, 107 mmol/L, 82 mmol/L, and 87 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-11 through BG-15 are: 3.8 mmol/L, 6.1 mmol/L, 6.8 mmol/L, 4.1 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-11 through BG-15 are: 141 mmol/L, 149 mmol/L, 167 mmol/L, 144 mmol/L, and 141 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

Specimen BG-11							Specimen BG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	3.57	0.06	1.6	3.6	3.3 - 3.8	6	1.13	0.06	5.1	1.1	0.9 - 1.4
i-STAT	6	3.57	0.06	1.6	3.6	3.3 - 3.8	6	1.13	0.06	5.1	1.1	0.9 - 1.4
Specimen BG-13							Specimen BG-14					
All Method	6	0.90	0.01	0.0	0.9	0.8 - 1.0	6	1.45	0.07	4.9	1.5	1.2 - 1.7
i-STAT	6	0.90	0.01	0.0	0.9	0.8 - 1.0	6	1.45	0.07	4.9	1.5	1.2 - 1.7
Specimen BG-15												
All Method	6	3.57	0.06	1.6	3.6	3.3 - 3.8						
i-STAT	6	3.57	0.06	1.6	3.6	3.3 - 3.8						

Afinion Glycohemoglobin (percent)

Specimen AFN-5							Specimen AFN-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Axis-Shield Afinion AS100	74	8.13	0.14	1.7	8.1	7.6 - 8.7	73	5.99	0.11	1.8	6.0	5.6 - 6.4

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	7.247	0.996	13.7	7.10	5.25 - 9.24	6	2.453	0.388	15.8	2.41	1.67 - 3.23

Insulin (μU/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	59.63	14.74	24.7	65.0	30.1 - 89.2	17	35.83	8.70	24.3	39.1	18.4 - 53.3

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	21.6	3.3	15.5	21	14 - 29	36	9.1	2.1	23.1	9	4 - 14
All TOSOH Instruments	11	23.8	7.8	32.8	22	8 - 40	11	8.8	1.3	14.2	9	6 - 12
Beckman ACCESS / 2 / Dxl	13	20.0	1.2	5.8	20	17 - 23	13	8.4	0.5	6.0	8	7 - 10

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

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	113	60.17	14.94	24.8	61.5	30.2 - 90.1	112	38.67	9.17	23.7	38.5	20.3 - 57.1
All Roche Instruments	10	34.14	5.54	16.2	35.4	23.0 - 45.3	10	20.93	3.88	18.5	21.6	13.1 - 28.7
All Siemens ADVIA Instruments	5	94.32	4.43	4.7	92.6	85.4 - 103.2	5	50.58	4.67	9.2	48.3	41.2 - 60.0
All TOSOH Instruments	22	67.01	2.71	4.0	66.9	61.5 - 72.5	22	48.18	2.67	5.5	48.2	42.8 - 53.6
Abbott Architect	12	48.50	3.75	7.7	48.9	40.9 - 56.1	12	31.03	1.50	4.8	30.9	28.0 - 34.1
Beckman ACCESS / 2 / Dxl	40	63.26	8.11	12.8	61.5	47.0 - 79.5	40	38.15	4.96	13.0	37.6	28.2 - 48.1
Immuno Diagnostic Systems (IDS) - EIA	5	61.00	19.69	32.3	61.5	21.6 - 100.4	5	41.06	10.14	24.7	38.7	20.7 - 61.4
Qualigen FastPack	8	48.05	6.07	12.6	48.3	35.9 - 60.2	8	33.28	4.90	14.7	33.0	23.4 - 43.1
Roche cobas e 411	8	32.80	5.41	16.5	34.0	21.9 - 43.7	8	20.03	3.71	18.5	20.9	12.6 - 27.5
TOSOH AIA	14	66.57	2.15	3.2	66.1	62.2 - 70.9	14	47.76	2.44	5.1	47.9	42.8 - 52.7
TOSOH ST AIA	8	67.78	3.53	5.2	67.8	60.7 - 74.9	8	48.90	3.05	6.2	49.1	42.7 - 55.1

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-3						Specimen SHB-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	-	-	-	-	-	Not reported	-	-	-	-	-	Not reported

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	Not reported	-	-	-	-	-	Not reported

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

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	59.091	10.204	17.3	58.00	28.47 - 89.71	-	-	-	-	-	-
Beckman ACCESS / 2 / Dxl	5	65.720	9.541	14.5	63.10	37.09 - 94.35	-	-	-	-	-	-
Siemens Immulite/1000	5	52.680	7.918	15.0	52.00	28.92 - 76.44	-	-	-	-	-	-

Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	577.2	89.5	15.5	551	404 - 751	-	-	-	-	-	-
All Immulite Instruments	4	664.0	45.7	6.9	674	464 - 864	-	-	-	-	-	-
Beckman ACCESS / 2 / Dxl	4	507.0	34.2	6.7	500	354 - 660	-	-	-	-	-	-
Siemens Immulite/1000	4	664.0	45.7	6.9	674	464 - 864	-	-	-	-	-	-

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-5						Specimen GH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	180	11.38	0.77	6.8	11.3	10.6 - 12.1	183	8.31	0.32	3.8	8.3	7.8 - 8.9
All Hemoglobin A1c Methods	176	11.36	0.73	6.4	11.3	10.6 - 12.1	181	8.31	0.31	3.8	8.3	7.8 - 8.9
All TOSOH Methods	23	11.00	0.18	1.6	11.0	10.3 - 11.7	22	8.25	0.18	2.2	8.3	7.7 - 8.8
Beckman AU A1c	16	10.75	0.34	3.1	10.7	10.1 - 11.4	15	7.89	0.15	1.9	7.9	7.4 - 8.4
Siemens DCA Vantage	80	11.89	0.55	4.6	11.9	11.1 - 12.7	83	8.46	0.23	2.7	8.5	7.9 - 9.0
Siemens Dimension HB1C	27	10.46	0.19	1.8	10.5	9.8 - 11.1	26	8.07	0.15	1.9	8.1	7.5 - 8.6
TOSOH G8	21	11.00	0.18	1.6	11.0	10.3 - 11.7	21	8.26	0.17	2.1	8.3	7.7 - 8.8

BNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	2276.67	375.49	16.5	1530.0	1525.6 - 3027.7	11	581.29	83.18	14.3	408.0	414.9 - 747.7
Alere Triage	24	1527.92	221.20	14.5	1480.0	1085.5 - 1970.4	24	406.63	43.86	10.8	396.0	304.9 - 508.3
i-STAT - moderate	10	2516.00	131.79	5.2	2494.0	1887.0 - 3145.0	10	610.50	34.78	5.7	611.5	457.8 - 763.2
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	60.92	16.73	27.5	48.8	27.4 - 94.4	11	1144.98	203.42	17.8	866.0	738.1 - 1551.9
Alere Triage	24	45.75	9.26	20.2	48.2	27.2 - 64.3	24	798.40	112.97	14.1	733.5	572.4 - 1024.4
i-STAT - moderate	10	53.50	2.52	4.7	54.0	40.1 - 66.9	10	1220.25	141.60	11.6	1178.0	915.1 - 1525.4
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	3584.15	496.10	13.8	2862.5	2591.9 - 4576.4						
Alere Triage	24	2701.00	380.36	14.1	2660.0	1940.2 - 3461.8						
i-STAT - moderate	10	3588.25	317.81	8.9	3584.5	2691.1 - 4485.4						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	48.19	8.54	17.7	25.5	22.5 - 73.9	22	15.90	2.43	15.3	9.1	8.6 - 23.2
Alere Triage	18	21.39	3.74	17.5	20.9	10.1 - 32.7	18	7.06	1.57	22.3	7.3	2.3 - 11.8
Dade Stratus CS	11	45.80	3.99	8.7	46.3	33.8 - 57.8	11	15.50	1.18	7.6	15.6	11.9 - 19.1
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	6.03	1.36	22.6	3.7	1.9 - 10.2	22	26.76	4.53	16.9	14.8	13.1 - 40.4
Alere Triage	18	2.87	0.98	34.0	3.0	0.0 - 5.9	18	11.58	2.67	23.1	11.5	3.5 - 19.7
Dade Stratus CS	11	5.78	0.39	6.8	5.8	4.6 - 7.0	11	25.93	1.60	6.2	26.2	21.1 - 30.8
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	22	82.95	20.72	25.0	44.3	20.7 - 145.2						
Alere Triage	18	37.71	9.10	24.1	39.4	10.4 - 65.1						
Dade Stratus CS	11	80.45	5.45	6.8	80.9	64.0 - 96.9						

D-Dimer (ng/mL)

Specimen CK-11							Specimen CK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	1506.6	482.9	32.1	1605	540 - 2473	28	695.1	158.5	22.8	826	378 - 1013
Alere Triage	20	1585.0	187.8	11.8	1575	1109 - 2061	20	826.3	72.2	8.7	843	578 - 1075
Dade Stratus CS	11	1761.5	121.0	6.9	1794	1233 - 2290	11	777.7	49.2	6.3	758	544 - 1011
Specimen CK-13							Specimen CK-14					
All Method	28	396.9	50.1	12.6	514	277 - 516	28	1037.6	228.8	22.1	1101	579 - 1496
Alere Triage	20	547.6	65.8	12.0	551	383 - 712	20	1057.6	121.5	11.5	1090	740 - 1375
Dade Stratus CS	11	407.0	46.4	11.4	417	284 - 530	11	1120.7	69.4	6.2	1117	784 - 1457
Specimen CK-15												
All Method	28	2537.9	701.7	27.6	2490	1134 - 3942						
Alere Triage	20	2459.4	217.5	8.8	2460	1721 - 3198						
Dade Stratus CS	11	2793.3	206.4	7.4	2821	1955 - 3632						

D-Dimer (µgFEU/mL)

Specimen CK-11							Specimen CK-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	Not graded	-	-	-	-	-	Not graded
Specimen CK-13							Specimen CK-14					
All Method	-	-	-	-	-	Not graded	-	-	-	-	-	Not graded
Specimen CK-15												
All Method	-	-	-	-	-	Not graded						

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	240.45	58.15	24.2	216.7	124.1 - 356.8	20	79.70	18.62	23.4	79.6	42.4 - 117.0
Alere Triage	14	219.29	32.24	14.7	217.5	153.5 - 285.1	14	85.61	14.30	16.7	81.4	57.0 - 114.3
	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	29.60	6.84	23.1	31.1	15.9 - 43.3	20	133.53	34.91	26.1	128.5	63.7 - 203.4
Alere Triage	14	32.89	9.04	27.5	31.1	14.8 - 51.0	14	132.98	22.15	16.7	130.5	88.6 - 177.3
	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	478.18	135.87	28.4	365.0	206.4 - 750.0						
Alere Triage	14	345.50	65.84	19.1	355.5	213.8 - 477.2						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1319.3	812.5	61.6	1047	0 - 2945	5	311.7	221.9	71.2	246	0 - 756
	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	25	Not graded	2	-	-	-	414	Not graded
	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	1916	Not graded						

Troponin I (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	52	7.905	8.334	105.4	5.34	0.00 - 24.58	52	1.369	1.846	134.8	0.50	0.00 - 5.07
All HS Troponin I Methods	12	27.254	14.237	52.2	21.05	0.00 - 55.73	12	6.932	4.628	66.8	5.05	0.00 - 16.19
Alere Triage	19	4.949	1.232	24.9	5.34	2.48 - 7.42	19	0.522	0.127	24.4	0.53	0.26 - 0.78
Dade Stratus CS	11	1.348	0.092	6.8	1.37	0.94 - 1.76	11	0.315	0.023	7.4	0.31	0.22 - 0.41
i-STAT - moderate	10	20.290	3.247	16.0	19.60	13.79 - 26.79	10	5.112	1.082	21.2	4.91	2.94 - 7.28
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	52	0.104	0.139	134.1	0.05	0.00 - 0.39	52	3.150	3.748	119.0	1.60	0.00 - 10.65
All HS Troponin I Methods	12	0.404	0.270	66.9	0.33	0.00 - 0.95	12	14.118	8.447	59.8	11.18	0.00 - 31.02
Alere Triage	19	0.050	0.001	0.0	0.05	0.03 - 0.07	19	1.650	0.528	32.0	1.68	0.59 - 2.71
Dade Stratus CS	11	0.018	0.008	41.0	0.02	0.00 - 0.04	11	0.680	0.031	4.6	0.69	0.47 - 0.89
i-STAT - moderate	10	0.318	0.030	9.5	0.33	0.22 - 0.42	10	10.688	0.936	8.8	11.01	7.48 - 13.90
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	52	15.543	15.476	99.6	10.40	0.00 - 46.50						
All HS Troponin I Methods	12	56.948	26.871	47.2	45.98	3.20 - 110.69						
Alere Triage	19	10.777	2.295	21.3	10.60	6.18 - 15.37						
Dade Stratus CS	11	2.712	0.115	4.2	2.70	1.89 - 3.53						
i-STAT - moderate	10	38.548	5.449	14.1	39.53	26.98 - 50.12						

PSA (ng/mL)

<u>Method</u>	Specimen PS-5						Specimen PS-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	141	8.567	1.238	14.5	8.30	5.99 - 11.14	141	16.963	2.742	16.2	16.60	11.87 - 22.06
All TOSOH Instruments	37	7.505	0.374	5.0	7.48	5.25 - 9.76	38	14.501	0.799	5.5	14.40	10.15 - 18.86
Abbott Architect	13	7.505	0.480	6.4	7.50	5.25 - 9.76	13	14.868	0.983	6.6	14.54	10.40 - 19.33
Beckman ACCESS / 2 / Dxl	24	9.507	0.436	4.6	9.57	6.65 - 12.36	24	18.590	0.965	5.2	18.54	13.01 - 24.17
Beckman ACCESS Hybritech PSA	22	9.715	0.386	4.0	9.82	6.80 - 12.63	22	19.104	0.888	4.6	19.09	13.37 - 24.84
Siemens Dimension TPSA	16	7.939	0.293	3.7	7.88	5.55 - 10.33	16	15.730	0.566	3.6	15.58	11.01 - 20.45
TOSOH AIA	16	7.398	0.292	3.9	7.40	5.17 - 9.62	16	14.368	0.554	3.9	14.29	10.05 - 18.68
TOSOH ST AIA	22	7.650	0.505	6.6	7.66	5.35 - 9.95	22	14.597	0.939	6.4	14.41	10.21 - 18.98

Beta-2 microglobulin

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	1.848	0.823	44.5	2.10	0.00 - 4.32	6	1.068	0.471	44.0	1.29	0.00 - 2.48

CA 125 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	78.6	9.1	11.6	85	55 - 103	17	44.8	5.8	12.9	51	31 - 59
All TOSOH Instruments	11	141.0	11.9	8.4	143	98 - 184	11	78.9	9.3	11.7	79	55 - 103

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	38.1	15.9	41.8	36	6 - 70	10	25.4	10.7	42.2	23	3 - 47

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	106.3	48.0	45.1	124	10 - 203	10	60.1	26.1	43.4	70	7 - 113

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	163.0	35.7	21.9	168	91 - 235	10	99.4	19.6	19.7	105	60 - 139

CEA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	21.74	3.33	15.3	25.4	15.2 - 28.3	11	11.10	1.78	16.1	13.0	7.7 - 14.5

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	2.780	0.571	20.5	2.61	1.88 - 3.68	13	1.365	0.280	20.5	1.35	0.46 - 2.27

PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	2.980	0.562	18.8	3.03	2.07 - 3.88	36	1.465	0.263	17.9	1.50	0.56 - 2.37

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	47.18	20.73	43.9	35.0	5.7 - 88.7	5	21.26	8.07	38.0	16.8	5.1 - 37.5

CEA (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	8.19	0.61	7.5	9.2	5.7 - 10.7	14	14.80	1.64	11.1	16.0	10.3 - 19.3
All TOSOH Instruments	10	10.53	0.35	3.3	10.5	7.3 - 13.7	10	17.48	3.10	17.7	18.6	12.2 - 22.8

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	161.24	39.00	24.2	148.6	112.8 - 209.7	18	240.32	40.23	16.7	241.2	168.2 - 312.5
Beckman ACCESS / 2 / Dxl	11	150.47	16.20	10.8	148.6	105.3 - 195.7	11	255.10	20.60	8.1	249.2	178.5 - 331.7

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	200.8	62.7	31.2	193	75 - 327	32	325.8	100.2	30.8	300	125 - 527
All TOSOH Instruments	10	192.9	30.9	16.0	199	131 - 255	10	321.1	33.1	10.3	320	254 - 388

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	91.1	16.8	18.4	68	63 - 119	64	152.3	31.5	20.7	118	106 - 198
All TOSOH Instruments	23	60.8	2.3	3.7	61	42 - 80	23	108.0	6.0	5.5	108	75 - 141
Beckman ACCESS / 2 / Dxl	36	66.7	5.0	7.4	66	46 - 87	36	116.3	7.9	6.8	116	81 - 152
TOSOH AIA	10	60.3	1.9	3.2	61	42 - 79	10	106.8	5.0	4.7	107	74 - 139
TOSOH ST AIA	13	61.2	2.5	4.1	61	42 - 80	13	108.9	6.7	6.1	110	76 - 142

Folate (ng/mL)

Specimen SC-5							Specimen SC-6					
<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	59	1.96	0.47	23.9	2.4	1.0 - 2.9	59	3.44	1.01	29.4	4.4	2.4 - 4.5
All Roche Instruments	12	1.66	0.68	41.1	2.0	0.7 - 2.6	12	2.86	0.70	24.6	3.0	1.9 - 3.8
All Siemens Dimension Instruments	10	1.60	0.21	13.3	1.6	0.7 - 2.5	10	2.56	0.18	7.1	2.6	1.6 - 3.5
All TOSOH Instruments	11	2.17	0.32	14.6	2.2	1.2 - 3.1	11	3.38	0.64	19.0	3.6	2.3 - 4.4
Abbott Architect	11	2.30	0.20	8.7	2.3	1.4 - 3.2	11	4.60	0.36	7.9	4.6	3.2 - 6.0
Beckman ACCESS / 2 / Dxl	32	2.56	0.18	7.1	2.6	1.6 - 3.5	32	4.79	0.39	8.2	5.0	3.3 - 6.3
Roche cobas e 411	10	1.64	0.80	49.1	2.0	0.7 - 2.6	10	2.74	0.82	29.8	2.4	1.8 - 3.7
TOSOH AIA	10	2.19	0.25	11.3	2.2	1.2 - 3.1	10	3.37	0.68	20.3	3.6	2.3 - 4.4

FSH (mIU/mL)

Specimen SC-5							Specimen SC-6					
<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	36	21.65	3.27	15.1	21.4	16.2 - 27.1	35	30.44	3.06	10.1	30.5	22.8 - 38.1
Beckman ACCESS / 2 / Dxl	14	21.71	3.33	15.4	21.8	16.2 - 27.2	14	31.62	4.96	15.7	30.6	23.7 - 39.6

Homocysteine (μmol/L)

Specimen SC-5							Specimen SC-5					
<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	10	26.3	4.1	15.6	27	19 - 33	10	43.1	6.4	14.8	44	32 - 54

LH (mIU/mL)

Specimen SC-5							Specimen SC-6					
<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	36	21.78	5.66	26.0	19.7	10.4 - 33.2	36	36.68	10.15	27.7	33.3	16.3 - 57.0
Beckman ACCESS / 2 / Dxl	15	18.64	1.09	5.9	18.7	16.4 - 20.9	15	31.27	1.65	5.3	31.8	27.9 - 34.6

Progesterone (ng/mL)

Specimen SC-5							Specimen SC-6					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	17.46	3.30	18.9	17.7	12.2 - 22.7	24	27.26	6.59	24.2	27.0	19.0 - 35.5

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	20.74	2.70	13.0	20.2	14.5 - 27.0	24	36.47	7.44	20.4	37.3	25.5 - 47.5

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	81	574.9	115.8	20.1	544	402 - 748	81	926.2	176.1	19.0	887	648 - 1205
All Roche Instruments	11	624.2	67.4	10.8	611	436 - 812	11	1032.8	162.8	15.8	987	722 - 1343
All Siemens Immulite Instruments	13	709.1	89.8	12.7	735	496 - 922	13	1096.3	125.8	11.5	1115	767 - 1426
All TOSOH Instruments	23	714.5	52.3	7.3	714	500 - 929	23	1138.0	58.6	5.1	1144	796 - 1480
Abbott Architect	10	608.2	48.5	8.0	620	425 - 791	10	1078.7	81.9	7.6	1060	755 - 1403
Beckman ACCESS / 2 / Dxl	35	504.4	35.0	6.9	507	353 - 656	35	839.1	61.2	7.3	841	587 - 1091
Qualigen FastPack	11	435.8	72.5	16.6	451	305 - 567	11	654.2	96.6	14.8	620	457 - 851
Siemens Immulite/1000	10	724.0	88.5	12.2	740	506 - 942	10	1117.0	124.1	11.1	1123	781 - 1453
TOSOH AIA	13	723.5	54.8	7.6	704	506 - 941	13	1115.3	60.0	5.4	1127	780 - 1450
TOSOH ST AIA	10	708.4	53.0	7.5	714	495 - 921	10	1108.9	147.6	13.3	1147	776 - 1442

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	146.6	8.8	6.0	146	131 - 162	14	205.1	10.0	4.9	204	184 - 226

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	97	463.9	66.0	14.2	446	324 - 604	98	758.5	91.4	12.0	736	530 - 987
All TOSOH Instruments	15	564.5	34.5	6.1	571	395 - 734	15	847.3	94.0	11.1	856	593 - 1102
Beckman ACCESS / 2 / Dxl	46	412.7	28.7	7.0	413	288 - 537	46	695.0	41.6	6.0	696	486 - 904
TOSOH AIA	12	564.8	36.8	6.5	569	395 - 735	12	843.2	102.2	12.1	862	590 - 1097

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-11						Specimen ETH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	6	145.5	21.5	14.8	150	109 - 182	6	110.8	17.8	16.0	113	83 - 139
	Specimen ETH-13						Specimen ETH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	6	8.8	1.5	17.1	9	6 - 11	6	170.3	29.2	17.2	174	127 - 213
	Specimen ETH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	6	108.3	13.8	12.8	112	81 - 136						

Acetone

<u>Method</u>	Specimen ETH-11						Specimen ETH-12					
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>		<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	
ALL METHODS	7	-	-	-	7		7	-	-	2	5	
Biorex Labs K-CHECK	3	-	-	-	3		3	-	-	1	2	
Siemens Acetest												
	Specimen ETH-13						Specimen ETH-14					
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>		<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	
ALL METHODS	7	7	-	-	-		7	-	-	3	4	
Biorex Labs K-CHECK	3	3	-	-	-		3	-	-	2	1	
Siemens Acetest	4	4	-	-	-		4	-	-	1	3	
	Specimen ETH-15											
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>							
ALL METHODS	7	7	-	-	-							
Biorex Labs K-CHECK	3	3	-	-	-							
Siemens Acetest	4	4	-	-	-							

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	2.070	0.224	10.8	2.10	1.62 - 2.52	13	892.977	113.617	12.7	892.00	665.74 - 1120.22

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	1.158	0.417	36.0	1.00	0.32 - 2.00	14	29.471	13.301	45.1	24.65	2.86 - 56.08
Beckman ACCESS / 2 / Dxl	10	0.990	0.152	15.4	1.00	0.68 - 1.30	10	23.780	2.990	12.6	23.50	17.80 - 29.76

Ammonia (μmol/L)

<u>Method</u>	Specimen AMM-5						Specimen AMM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	154.7	10.1	6.5	160	134 - 175	6	27.3	9.9	36.1	32	7 - 48

Urine Drug Screen

Acetaminophen (µg/mL)

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

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	72	-	72	72	-	72
Cut-off 250						
Alere iCup	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
All Cut-off 250	2	-	2	2	-	2
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	-	1
All Cut-off 300	3	-	3	3	-	3
Cut-off 500						
Alere iCup	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 500	17	-	17	17	-	17

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Cut-off 1000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	9	-	9	9	-	9
Alere iScreen	1	-	1	1	-	1
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	2	-	2	2	-	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	4	-	4	4	-	4
MEDTOX Diagnostics	1	-	1	1	-	1
Microgenics DRI	4	-	4	4	-	4
Noble Medical Inc.	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 1000	42	-	42	42	-	42

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	12	-	12	12	-	12
Cut-off 500						
Beckman AU	3	-	3	3	-	3
Siemens EMIT II Plus	3	-	3	3	-	3
All Cut-off 500	7	-	7	7	-	7
Cut-off 1000						
Alere iCassette	1	-	1	1	-	1
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 1000	5	-	5	5	-	5

Barbiturates (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	67	-	67	67	66	1
Cut-off 200						
Abbott Architect	1	-	1	1	1	-
Beckman AU	6	-	6	6	6	-
ImmTox	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Lin-Zhi International	2	-	2	2	2	-
Medica EasyRA	1	-	1	1	1	-
MEDTOX Diagnostics	7	-	7	7	7	-
Microgenics DRI	2	-	2	2	2	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	3	-	3	3	3	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 200	29	-	29	29	29	-
Cut-off 300						
Alere iCassette	3	-	3	3	3	-
Alere iCup	11	-	11	11	11	-
Alere iScreen	1	-	1	1	1	-
Amedica Biotech AmediCheck	2	-	2	2	2	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	1	-	1	1	1	-
USDiagnostics UScreen Cup	5	-	5	5	5	-
All Cut-off 300	31	-	31	31	31	-

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	75	-	75	75	-	75
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Medica EasyRA	2	-	2	2	-	2
MEDTOX Diagnostics	6	-	6	6	-	6
All Cut-off 150	8	-	8	8	-	8
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	5	-	5	5	-	5
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	4	-	4	4	-	4
Microgenics DRI	2	-	2	2	-	2
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	6	-	6	6	-	6
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	25	-	25	25	-	25
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	11	-	11	11	-	11
Alere iScreen	2	-	2	2	-	2
Amedica Biotech AmediCheck	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	3	-	3	3	-	3
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	-	1
MEDTOX Diagnostics	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 300	33	-	33	33	-	33

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	38	2	36	38	-	38
Cut-off 5						
Beckman AU	4	-	4	4	-	4
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Lin-Zhi International	4	1	3	4	-	4
Medica EasyRA	2	-	2	2	-	2
Microgenics CEDIA	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	18	1	17	18	-	18
Cut-off 10						
Alere iCup	2	1	1	2	-	2
Alere iScreen	2	-	2	2	-	2
Chemtron Biotech	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics CEDIA	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
All Cut-off 10	14	1	13	14	-	14
Cut-off 20						
Indiko Plus	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	84	83	1	84	-	84
Cut-off 20						
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1
Cut-off 50						
Abbott Architect	1	1	-	1	-	1
Alere iCassette	3	3	-	3	-	3
Alere iCup	12	11	1	12	-	12
Alere iScreen	1	1	-	1	-	1
Alfa Scientific Instant-View	2	2	-	2	-	2
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	6	6	-	6	-	6
Bio-Rad TOX/See	1	1	-	1	-	1
BMC QuickTox Drug Screen	3	3	-	3	-	3
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	1	-	1	-	1
Germaine Laboratories AimScreen	1	1	-	1	-	1
ImmTox	2	2	-	2	-	2
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	2	2	-	2	-	2
Lin-Zhi International	4	4	-	4	-	4
Medica EasyRA	1	1	-	1	-	1
MEDTOX Diagnostics	7	7	-	7	-	7
Microgenics DRI	5	5	-	5	-	5
Noble Medical Inc.	1	1	-	1	-	1
Roche Cobas 8000 / c502	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	4	4	-	4	-	4
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	5	5	-	5	-	5
All Cut-off 50	74	73	1	74	-	74

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	86	-	86	86	86	-
Cut-off 50						
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	1	-
All Cut-off 50	1	-	1	1	1	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
Medica EasyRA	2	-	2	2	2	-
All Cut-off 100	3	-	3	3	3	-
Cut-off 150						
Alere iCup	2	-	2	2	2	-
Beckman AU	4	-	4	4	4	-
ImmTox	2	-	2	2	2	-
Immunalysis	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
MEDTOX Diagnostics	6	-	6	6	6	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	3	-	3	3	3	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 150	21	-	21	21	21	-
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	3	-	3	3	3	-
Alere iCup	10	-	10	10	10	-
Alere iScreen	1	-	1	1	1	-
Alfa Scientific Instant-View	2	-	2	2	2	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Germaine Laboratories AimScreen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	2	-	2	2	2	-
Lin-Zhi International	3	-	3	3	3	-
MEDTOX Diagnostics	1	-	1	1	1	-
Microgenics DRI	4	-	4	4	4	-
Noble Medical Inc.	1	-	1	1	1	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
Siemens EMIT II Plus	3	-	3	3	3	-
USDiagnostics One Step Multi-Drug	1	-	1	1	1	-
USDiagnostics UScreen Cup	5	-	5	5	5	-
All Cut-off 300	52	-	52	52	52	-

Cotinine (ng/mL)

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

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	2	-	2	-	2
Cut-off 100						
Immunalysis	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1
Cut-off 300						
Microgenics DRI	1	1	-	1	-	1
All Cut-off 300	1	1	-	1	-	1

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	12	11	1	12	-	12
Cut-off 10						
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 10	1	1	-	1	-	1
Cut-off 20						
Microgenics DRI	1	1	-	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 20	2	2	-	2	-	2
Cut-off 100						
Beckman AU	2	2	-	2	-	2
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Lin-Zhi International	3	3	-	3	-	3
Microgenics DRI	1	1	-	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 100	8	7	1	8	-	8
Cut-off 3						
Roche Cobas 8000 / c502	1	1	-	1	-	1
All Cut-off 3	1	1	-	1	-	1

Fentanyl (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	-	5
Cut-off 2						
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	4	-	4	4	-	4

LSD (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	-	1	1	-	1

MDMA (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-5		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	32	-	32	32	1	31
Cut-off 100						
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 500						
Alere iCassette	1	-	1	1	-	1
Alere iCup	11	-	11	11	-	11
Amedica Biotech AmediCheck	2	-	2	2	-	2
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	2	-	2	2	-	2
Microgenics DRI	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	4	-	4	4	1	3
All Cut-off 500	28	-	28	28	1	27

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	67	4	63	67	64	3
Cut-off 150						
Abbott Architect	1	-	1	1	1	-
Siemens EMIT II Plus	2	-	2	2	2	-
All Cut-off 150	3	-	3	3	3	-
Cut-off 200						
MEDTOX Diagnostics	5	-	5	5	5	-
All Cut-off 200	5	-	5	5	5	-
Cut-off 300						
Alere iCassette	3	-	3	3	3	-
Alere iCup	10	-	10	10	10	-
Alere iScreen	1	-	1	1	1	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Beckman AU	5	1	4	5	5	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Immunalysis	1	1	-	1	1	-
Indiko Plus	1	-	1	1	1	-
Lin-Zhi International	3	-	3	3	3	-
Medica EasyRA	2	2	-	2	2	-
Microgenics DRI	5	-	5	5	5	-
Roche Integra	1	-	1	1	1	-
Siemens EMIT II Plus	3	-	3	3	3	-
Synermed IR 500	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	1	-	1	1	1	-
USDiagnostics UScreen Cup	5	-	5	5	4	1
All Cut-off 300	51	4	47	51	49	2
Cut-off 1000						
Alere iCup	1	-	1	1	1	-
All Cut-off 1000	1	-	1	1	1	-

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	49	-	49	49	1	48
Cut-off 500						
Alere iCup	2	-	2	2	-	2
Alere iScreen	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
BMC QuickTox Drug Screen	2	-	2	2	-	2
ImmTox	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	1	4
All Cut-off 500	16	-	16	16	1	15
Cut-off 1000						
Alere iCassette	2	-	2	2	-	2
Alere iCup	10	-	10	10	-	10
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 1000	24	-	24	24	-	24

Methanol (mg/dL)

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

Methaqualone (ng/mL)

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

6-MAM (ng/mL)

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

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	88	-	88	88	87	1
Cut-off 100						
Beckman AU	1	-	1	1	1	-
Medica EasyRA	2	-	2	2	2	-
MEDTOX Diagnostics	6	-	6	6	6	-
All Cut-off 100	9	-	9	9	9	-
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCup	3	-	3	3	2	1
Alere iScreen	2	-	2	2	2	-
Beckman AU	5	-	5	5	5	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
ImmTox	2	-	2	2	2	-
Immunalysis	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Lin-Zhi International	4	-	4	4	4	-
MEDTOX Diagnostics	1	-	1	1	1	-
Microgenics DRI	3	-	3	3	3	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	6	-	6	6	6	-
Synermed IR 500	1	-	1	1	1	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 300	39	-	39	39	38	1
Cut-off 2000						

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

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Alere iCassette	3	-	3	3	3	-
Alere iCup	10	-	10	10	10	-
Alfa Scientific Instant-View	1	-	1	1	1	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Germaine Laboratories						
AimScreen	1	-	1	1	1	-
Innovacon Multi-Drug One						
Step	1	-	1	1	1	-
Integrated E-Z Split Key Cup / II	2	-	2	2	2	-
Microgenics DRI	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
USDiagnosics One Step Multi-						
Drug	1	-	1	1	1	-
USDiagnosics UScreen Cup	4	-	4	4	4	-
All Cut-off 2000	30	-	30	30	30	-

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	61	-	61	61	3	58
Cut-off 100						
Alere iCassette	3	-	3	3	-	3
Alere iCup	12	-	12	12	1	11
Alere iScreen	2	-	2	2	-	2
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	5	-	5	5	-	5
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	3	-	3	3	1	2
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Lin-Zhi International	2	-	2	2	-	2
Medica EasyRA	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	5	-	5	5	-	5
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
All Cut-off 100	53	-	53	53	2	51
Cut-off 300						
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 300	3	-	3	3	1	2

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	55	50	5	55	-	55
Cut-off 25						
Abbott Architect	1	1	-	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	7	5	2	7	-	7
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	5	5	-	5	-	5
Bio-Rad TOX/See	1	1	-	1	-	1
BMC QuickTox Drug Screen	3	3	-	3	-	3
Discover Multi-Panel Drug Screen Test Cup	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	2	2	-	2	-	2
MEDTOX Diagnostics	7	7	-	7	-	7
Microgenics DRI	3	3	-	3	-	3
Noble Medical Inc.	1	1	-	1	-	1
Roche Cobas 8000 / c502	1	1	-	1	-	1
Siemens EMIT II Plus	3	3	-	3	-	3
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	5	5	-	5	-	5
All Cut-off 25	49	44	5	49	-	49

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	18	17	1	18	-	18
Cut-off 300						
Alere iCassette	2	2	-	2	-	2
Alere iCup	4	3	1	4	-	4
Beckman AU	1	1	-	1	-	1
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	1	1	-	1	-	1
Siemens EMIT II Plus	3	3	-	3	-	3
All Cut-off 300	16	15	1	16	-	16

Tramadol (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	4	-	4	4	4	-
Cut-off 200						
Beckman AU	2	-	2	2	2	-
ImmTox	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 200	4	-	4	4	4	-

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	24	21	3	24	-	24
Cut-off 300						
Beckman AU	1	1	-	1	-	1
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 300	6	6	-	6	-	6
Cut-off 1000						
Alere iCassette	1	1	-	1	-	1
Alere iCup	6	4	2	6	-	6
Amedica Biotech AmediCheck	2	2	-	2	-	2
Bio-Rad TOX/See	1	1	-	1	-	1
BMC QuickTox Drug Screen	1	1	-	1	-	1
Discover Multi-Panel Drug Screen						
Test Cup	1	1	-	1	-	1
USDiagnostics UScreen Cup	2	1	1	2	-	2
All Cut-off 1000	14	11	3	14	-	14

Whole Blood Glucose (mg/dL)

Specimen WBG-11							Specimen WBG-12					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	302	182.6	30.7	16.8	187	146 - 220	297	398.3	54.2	13.6	393	318 - 478
All Abbott Methods	22	174.5	16.5	9.5	173	139 - 210	22	402.2	28.6	7.1	392	321 - 483
All Arkray Methods	17	193.6	27.5	14.2	184	154 - 233	14	441.9	62.1	14.1	434	353 - 531
All Bayer Methods	49	134.5	8.3	6.2	133	107 - 162	49	341.6	40.7	11.9	341	273 - 410
All Hemocue Methods	70	199.0	7.1	3.6	199	159 - 239	68	398.5	10.7	2.7	400	318 - 479
All Lifescan Methods	24	205.3	25.6	12.5	217	164 - 247	24	437.5	45.1	10.3	451	350 - 525
All Roche Methods	34	175.2	6.4	3.7	177	140 - 211	34	383.8	11.0	2.9	384	307 - 461
Abbott FreeStyle Lite/Freedom Lite	10	162.9	7.5	4.6	162	130 - 196	10	385.0	7.8	2.0	384	308 - 462
Abbott Precision XceedPro	10	178.8	13.8	7.7	179	143 - 215	10	406.7	26.0	6.4	421	325 - 489
Arkray Platinum	15	189.0	20.0	10.6	183	151 - 227	12	431.3	60.7	14.1	422	345 - 518
Bayer Contour	49	134.5	8.3	6.2	133	107 - 162	49	341.6	40.7	11.9	341	273 - 410
HemoCue 201	70	199.0	7.1	3.6	199	159 - 239	68	398.5	10.7	2.7	400	318 - 479
Home Diagnostics True Balance / TrueTrack	13	473.9	18.9	4.0	480	379 - 569	11	580.6	43.7	7.5	600	464 - 697
Lifescan One Touch Ultra/2/Mini	17	219.3	10.6	4.8	223	175 - 264	18	456.1	29.6	6.5	466	364 - 548
LifeScan OneTouch Verio	11	167.2	1.5	0.9	167	133 - 201	11	368.2	19.2	5.2	370	294 - 442
Medline EvenCare G2 / G3	18	210.1	16.6	7.9	209	168 - 253	18	393.3	30.5	7.8	391	314 - 472
NOVA Biomedical StatStrip	22	156.0	6.2	4.0	155	124 - 188	22	350.1	22.9	6.5	349	280 - 421
Other Waived Method	10	175.7	34.7	19.8	166	140 - 211	10	381.3	39.7	10.4	376	305 - 458
PSS Quintet / AC	28	211.6	5.6	2.6	211	169 - 254	29	492.7	13.0	2.6	494	394 - 592
Roche Accu-Chek Aviva	11	175.1	7.8	4.4	176	140 - 211	11	382.7	16.2	4.2	379	306 - 460
Roche Accu-Chek Inform II	12	173.8	6.8	3.9	174	139 - 209	12	383.8	10.1	2.6	383	307 - 461
Roche Accu-Chek Performa	15	176.5	5.6	3.2	178	141 - 212	15	384.3	9.6	2.5	384	307 - 462
Specimen WBG-13							Specimen WBG-14					
All Method	12	65.7	2.9	4.4	66	52 - 79	13	288.0	38.2	13.3	293	230 - 346
All Abbott Methods	1	-	-	-	66	52 - 80	1	-	-	-	287	229 - 345
All Lifescan Methods	8	66.5	2.8	4.2	67	53 - 80	8	306.6	30.7	10.0	312	245 - 368
All Roche Methods	2	-	-	-	65	52 - 78	2	-	-	-	247	197 - 297
Lifescan One Touch Ultra/2/Mini	7	66.9	2.8	4.2	67	53 - 81	7	316.3	15.1	4.8	314	253 - 380
LifeScan OneTouch Verio	1	-	-	-	64	53 - 80	1	-	-	-	239	245 - 368
Medline EvenCare G2 / G3	1	-	-	-	89	52 - 79	1	-	-	-	291	230 - 346
Roche Accu-Chek Inform II	1	-	-	-	65	52 - 79	1	-	-	-	249	230 - 346
Roche Accu-Chek Performa	1	-	-	-	65	52 - 79	1	-	-	-	245	230 - 346

Whole Blood Glucose (mg/dL) cont'd

Specimen WBG-15						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	383.6	48.9	12.7	390	306 - 461
All Abbott Methods	1	-	-	-	400	320 - 480
All Lifescan Methods	8	405.6	40.6	10.0	422	324 - 487
All Roche Methods	2	-	-	-	331	264 - 398
Lifescan One Touch Ultra/2/Mini	7	417.6	24.2	5.8	424	334 - 502
LifeScan OneTouch Verio	1	-	-	-	322	324 - 487
Medline EvenCare G2 / G3	1	-	-	-	383	306 - 461
Roche Accu-Chek Inform II	1	-	-	-	332	306 - 461
Roche Accu-Chek Performa	1	-	-	-	330	306 - 461

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	261	Not graded	1	-	-	-	371	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	6.40	0.28	4.4	6.4	4.4 - 8.4	6	4.65	0.49	10.6	4.7	3.2 - 6.1

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	169	Not graded	1	-	-	-	251	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	131.08	7.44	5.7	131.8	108.7 - 153.4	10	192.73	11.19	5.8	196.8	159.9 - 225.5

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	149	Not graded	1	-	-	-	270	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	5.8	Not graded	1	-	-	-	9.0	Not graded

Urine Osmolality (mOsm/kg)

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

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	39.3	Not graded	1	-	-	-	59.7	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	63.10	6.22	9.9	63.1	44.8 - 81.4	5	104.60	12.87	12.3	104.6	74.2 - 135.0

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	146.3	10.1	6.9	141	108 - 185	5	197.7	12.5	6.3	192	146 - 250

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	56.18	9.23	16.4	55.0	31.4 - 80.9	10	101.57	15.57	15.3	99.5	56.8 - 146.3

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	599	Not graded	1	-	-	-	745	Not graded

Urine Uric Acid (mg/dL)

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

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