

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2018 MLE-M2



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	$\pm 30\%$	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 μ g/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	$\pm 30\%$	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-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	156.0	0.6	0.4	156	151 - 160	101	126.5	0.7	0.6	127	122 - 131
All i-STAT Instruments	100	156.0	0.6	0.4	156	151 - 160	101	126.5	0.7	0.6	127	122 - 131
i-STAT - waived	92	156.0	0.6	0.4	156	151 - 160	93	126.5	0.7	0.6	127	122 - 131
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	138.1	0.5	0.4	138	134 - 143	87	140.8	0.5	0.4	141	136 - 145
All i-STAT Instruments	86	138.1	0.5	0.4	138	134 - 143	87	140.8	0.5	0.4	141	136 - 145
i-STAT - waived	78	138.1	0.5	0.4	138	134 - 143	79	140.8	0.5	0.4	141	136 - 145
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	87	149.4	0.6	0.4	149	145 - 154						
All i-STAT Instruments	87	149.4	0.6	0.4	149	145 - 154						
i-STAT - waived	80	149.4	0.6	0.4	149	145 - 154						

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	4.60	0.01	0.3	4.6	4.1 - 5.2	100	2.27	0.05	2.0	2.3	1.7 - 2.8
All i-STAT Instruments	101	4.60	0.01	0.3	4.6	4.1 - 5.2	100	2.27	0.05	2.0	2.3	1.7 - 2.8
i-STAT - moderate	10	4.60	0.01	0.0	4.6	4.1 - 5.1	10	2.26	0.05	2.3	2.3	1.7 - 2.8
i-STAT - waived	91	4.60	0.01	0.3	4.6	4.1 - 5.2	90	2.27	0.05	2.0	2.3	1.7 - 2.8
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	87	4.40	0.01	0.0	4.4	3.9 - 4.9	88	3.80	0.01	0.0	3.8	3.3 - 4.3
All i-STAT Instruments	87	4.40	0.01	0.0	4.4	3.9 - 4.9	88	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - moderate	10	4.40	0.01	0.0	4.4	3.9 - 4.9	10	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - waived	77	4.40	0.01	0.0	4.4	3.9 - 4.9	78	3.80	0.01	0.0	3.8	3.3 - 4.3
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	88	6.19	0.03	0.6	6.2	5.6 - 6.7						
All i-STAT Instruments	88	6.19	0.03	0.6	6.2	5.6 - 6.7						
i-STAT - moderate	10	6.20	0.01	0.0	6.2	5.7 - 6.7						
i-STAT - waived	79	6.19	0.04	0.6	6.2	5.6 - 6.7						

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	97.0	0.7	0.7	97	92 - 102	99	79.4	0.7	0.9	79	75 - 84
All i-STAT Instruments	100	97.0	0.7	0.7	97	92 - 102	99	79.4	0.7	0.9	79	75 - 84
i-STAT - moderate	10	96.7	1.3	1.3	97	91 - 102	10	79.2	0.9	1.2	79	75 - 84
i-STAT - waived	89	97.1	0.6	0.6	97	92 - 102	90	79.4	0.7	0.9	79	75 - 84

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	91.1	0.6	0.6	91	86 - 96	88	86.5	0.6	0.7	87	82 - 91
All i-STAT Instruments	86	91.1	0.6	0.6	91	86 - 96	88	86.5	0.6	0.7	87	82 - 91
i-STAT - moderate	10	91.0	1.2	1.3	91	86 - 96	10	86.4	0.7	0.8	87	82 - 91
i-STAT - waived	78	91.1	0.6	0.6	91	86 - 96	78	86.5	0.6	0.7	87	82 - 91

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	105.0	0.6	0.5	105	99 - 111
All i-STAT Instruments	86	105.0	0.6	0.5	105	99 - 111
i-STAT - moderate	10	104.3	1.3	1.2	105	99 - 110
i-STAT - waived	79	105.0	0.6	0.5	105	99 - 111

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	98	25.5	0.9	3.4	26	20 - 31	96	23.6	0.8	3.4	24	18 - 29
All i-STAT Instruments	98	25.5	0.9	3.4	26	20 - 31	96	23.6	0.8	3.4	24	18 - 29
i-STAT - waived	90	25.5	0.9	3.4	26	20 - 31	88	23.6	0.8	3.3	24	18 - 29

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	85	28.0	0.9	3.2	28	22 - 34	87	25.9	1.0	4.0	26	20 - 32
All i-STAT Instruments	85	28.0	0.9	3.2	28	22 - 34	87	25.9	1.0	4.0	26	20 - 32
i-STAT - waived	78	27.9	0.9	3.2	28	22 - 34	79	25.9	1.1	4.1	26	20 - 32

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	85	18.6	0.6	3.3	19	14 - 23
All i-STAT Instruments	85	18.6	0.6	3.3	19	14 - 23
i-STAT - waived	77	18.6	0.6	3.4	19	14 - 23

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	57.0	1.0	1.8	57	51 - 63	101	9.4	0.5	5.5	9	7 - 12
All i-STAT Instruments	100	57.0	1.0	1.8	57	51 - 63	101	9.4	0.5	5.5	9	7 - 12
i-STAT - waived	91	57.0	1.0	1.7	57	51 - 63	92	9.4	0.5	5.5	9	7 - 12
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	36.6	0.7	2.0	37	33 - 40	87	61.5	0.9	1.5	61	55 - 68
All i-STAT Instruments	89	36.6	0.7	2.0	37	33 - 40	87	61.5	0.9	1.5	61	55 - 68
i-STAT - waived	80	36.6	0.7	2.0	37	33 - 40	78	61.6	0.9	1.5	61	56 - 68
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	89	22.3	0.5	2.2	22	20 - 25						
All i-STAT Instruments	89	22.3	0.5	2.2	22	20 - 25						
i-STAT - waived	80	22.3	0.5	2.2	22	20 - 25						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	196.5	2.0	1.0	196	176 - 217	102	50.8	0.8	1.6	51	44 - 57
All i-STAT Instruments	100	196.5	2.0	1.0	196	176 - 217	102	50.8	0.8	1.6	51	44 - 57
i-STAT - waived	91	196.5	2.0	1.0	196	176 - 217	93	50.8	0.8	1.6	51	44 - 57
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	87.7	1.2	1.3	88	78 - 97	86	144.7	1.2	0.8	145	130 - 160
All i-STAT Instruments	86	87.7	1.2	1.3	88	78 - 97	86	144.7	1.2	0.8	145	130 - 160
i-STAT - waived	77	87.6	1.2	1.4	88	78 - 97	77	144.7	1.2	0.8	145	130 - 160
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	89	85.4	0.9	1.1	85	76 - 94						
All i-STAT Instruments	89	85.4	0.9	1.1	85	76 - 94						
i-STAT - waived	80	85.4	0.9	1.1	85	76 - 94						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	32.1	0.4	1.1	32	30 - 35	14	15.0	0.1	0.0	15	14 - 16
All i-STAT Instruments	14	32.1	0.4	1.1	32	30 - 35	14	15.0	0.1	0.0	15	14 - 16
i-STAT - waived	13	32.2	0.4	1.2	32	30 - 35	13	15.0	0.1	0.0	15	14 - 16
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	36.0	0.6	1.8	36	33 - 39	11	26.0	3.0	11.4	25	24 - 28
All i-STAT Instruments	11	36.0	0.6	1.8	36	33 - 39	11	26.0	3.0	11.4	25	24 - 28
i-STAT - waived	10	36.0	0.7	2.0	36	33 - 39	10	26.2	3.3	12.5	25	24 - 28
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	26.8	0.4	1.5	27	25 - 29						
All i-STAT Instruments	11	26.8	0.4	1.5	27	25 - 29						
i-STAT - waived	10	26.8	0.4	1.7	27	25 - 29						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	11.08	0.37	3.3	10.9	10.3 - 11.9	15	5.10	0.01	0.0	5.1	4.7 - 5.5
All i-STAT Instruments	15	11.08	0.37	3.3	10.9	10.3 - 11.9	15	5.10	0.01	0.0	5.1	4.7 - 5.5
i-STAT - waived	14	11.09	0.38	3.4	10.9	10.3 - 11.9	14	5.10	0.01	0.0	5.1	4.7 - 5.5
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	12.22	0.22	1.8	12.2	11.3 - 13.1	11	8.85	1.01	11.4	8.5	8.2 - 9.5
All i-STAT Instruments	11	12.22	0.22	1.8	12.2	11.3 - 13.1	11	8.85	1.01	11.4	8.5	8.2 - 9.5
i-STAT - waived	10	12.22	0.25	2.0	12.2	11.3 - 13.1	10	8.92	1.11	12.5	8.5	8.2 - 9.6
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	9.13	0.16	1.8	9.2	8.4 - 9.8						
All i-STAT Instruments	11	9.13	0.16	1.8	9.2	8.4 - 9.8						
i-STAT - waived	10	9.12	0.18	2.0	9.2	8.4 - 9.8						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	110	4.86	0.17	3.4	4.9	4.1 - 5.6	112	0.41	0.05	11.9	0.4	0.1 - 0.8
All i-STAT Instruments	110	4.86	0.17	3.4	4.9	4.1 - 5.6	112	0.41	0.05	11.9	0.4	0.1 - 0.8
i-STAT - waived	101	4.86	0.17	3.5	4.9	4.1 - 5.6	103	0.41	0.05	11.8	0.4	0.1 - 0.8

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	2.63	0.08	3.1	2.6	2.2 - 3.1	86	5.97	0.18	3.0	6.0	5.0 - 6.9
All i-STAT Instruments	86	2.63	0.08	3.1	2.6	2.2 - 3.1	86	5.97	0.18	3.0	6.0	5.0 - 6.9
i-STAT - waived	77	2.63	0.08	3.1	2.6	2.2 - 3.1	77	5.97	0.19	3.1	6.0	5.0 - 6.9

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	87	1.10	0.04	3.4	1.1	0.8 - 1.5
All i-STAT Instruments	87	1.10	0.04	3.4	1.1	0.8 - 1.5
i-STAT - waived	78	1.10	0.04	3.4	1.1	0.8 - 1.5

Ionized Calcium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	0.965	0.007	0.8	0.96	0.94 - 0.99	91	0.599	0.005	0.9	0.60	0.58 - 0.62
All i-STAT Instruments	93	0.965	0.007	0.8	0.96	0.94 - 0.99	91	0.599	0.005	0.9	0.60	0.58 - 0.62
i-STAT - waived	85	0.966	0.007	0.8	0.97	0.94 - 0.99	83	0.599	0.005	0.9	0.60	0.58 - 0.62

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	84	1.325	0.009	0.7	1.32	1.29 - 1.36	84	2.217	0.020	0.9	2.21	2.15 - 2.28
All i-STAT Instruments	84	1.325	0.009	0.7	1.32	1.29 - 1.36	84	2.217	0.020	0.9	2.21	2.15 - 2.28
i-STAT - waived	76	1.324	0.009	0.7	1.32	1.29 - 1.36	76	2.216	0.020	0.9	2.21	2.15 - 2.28

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	83	0.781	0.007	0.9	0.78	0.75 - 0.81
All i-STAT Instruments	83	0.781	0.007	0.9	0.78	0.75 - 0.81
i-STAT - waived	75	0.781	0.007	1.0	0.78	0.75 - 0.81

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	238	3.78	0.51	13.5	4.0	3.4 - 4.2	235	2.37	0.22	9.5	2.4	2.1 - 2.7
All Bromocresol Green Reagents	169	4.09	0.18	4.4	4.1	3.6 - 4.5	168	2.47	0.17	7.0	2.5	2.2 - 2.8
All Bromocresol Purple Reagents	67	3.02	0.09	2.9	3.0	2.7 - 3.4	65	2.10	0.07	3.4	2.1	1.8 - 2.4
Abaxis Piccolo												
Abaxis Piccolo - waived	21	2.98	0.09	3.2	3.0	2.6 - 3.3	21	2.15	0.06	2.8	2.1	1.9 - 2.4
All Chemistry Instruments	30	2.98	0.09	3.1	3.0	2.6 - 3.3	28	2.15	0.06	2.7	2.1	1.9 - 2.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	4.16	0.11	2.5	4.2	3.7 - 4.6	23	2.61	0.09	3.3	2.6	2.3 - 2.9
Beckman AU												
Beckman AU systems	37	4.09	0.08	2.0	4.1	3.6 - 4.5	37	2.44	0.06	2.4	2.4	2.1 - 2.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.97	0.14	3.5	4.0	3.5 - 4.4	20	2.54	0.08	3.0	2.5	2.2 - 2.8
Roche Integra												
Roche Integra	20	4.30	0.11	2.7	4.3	3.8 - 4.8	20	2.59	0.07	2.9	2.6	2.3 - 2.9
Siemens Healthcare												
Siemens Dimension	34	3.04	0.07	2.2	3.0	2.7 - 3.4	34	2.06	0.06	2.9	2.1	1.8 - 2.3
All Chemistry Instruments	35	3.04	0.07	2.2	3.0	2.7 - 3.4	35	2.07	0.06	2.9	2.1	1.8 - 2.3
VITROS												
VITROS 250,350,400 500,700,750,950	32	3.91	0.15	3.9	3.9	3.5 - 4.4	32	2.21	0.08	3.4	2.2	1.9 - 2.5
All Chemistry Instruments	38	3.93	0.16	4.2	3.9	3.5 - 4.4	38	2.21	0.07	3.3	2.2	1.9 - 2.5

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	3.15	0.35	11.0	3.3	2.8 - 3.5	216	2.14	0.20	9.3	2.2	1.9 - 2.4
All Bromocresol Green Reagents	169	3.31	0.18	5.4	3.3	2.9 - 3.7	168	2.19	0.18	8.3	2.2	1.9 - 2.5
All Bromocresol Purple Reagents	46	2.57	0.06	2.3	2.6	2.3 - 2.9	46	1.93	0.07	3.7	1.9	1.7 - 2.2
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.6	2.3 - 2.9	3	-	-	-	1.9	1.7 - 2.2
All Chemistry Instruments	9	-	-	-	2.6	2.3 - 2.9	9	-	-	-	2.0	1.7 - 2.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	3.42	0.09	2.7	3.4	3.0 - 3.8	24	2.36	0.09	3.7	2.3	2.1 - 2.6
Beckman AU												
Beckman AU systems	37	3.31	0.08	2.3	3.3	2.9 - 3.7	36	2.15	0.07	3.2	2.2	1.9 - 2.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.30	0.11	3.5	3.3	2.9 - 3.7	20	2.32	0.07	2.9	2.3	2.0 - 2.6
Roche Integra												
Roche Integra	20	3.49	0.09	2.7	3.5	3.1 - 3.9	20	2.28	0.07	3.1	2.3	2.0 - 2.6
Siemens Healthcare												
Siemens Dimension	34	2.56	0.06	2.4	2.6	2.3 - 2.9	34	1.90	0.05	2.6	1.9	1.7 - 2.1
All Chemistry Instruments	35	2.56	0.06	2.3	2.6	2.3 - 2.9	35	1.90	0.05	2.7	1.9	1.7 - 2.1
VITROS												
VITROS 250,350,400 500,700,750,950	32	3.08	0.13	4.2	3.1	2.7 - 3.4	32	1.93	0.06	3.3	1.9	1.7 - 2.2
All Chemistry Instruments	38	3.07	0.12	3.9	3.1	2.7 - 3.4	38	1.92	0.07	3.5	1.9	1.7 - 2.2

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	219	3.67	0.44	12.0	3.8	3.3 - 4.1
All Bromocresol Green Reagents	168	3.89	0.16	4.2	3.9	3.5 - 4.3
All Bromocresol Purple Reagents	48	2.90	0.06	2.1	2.9	2.6 - 3.2
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	2.8	2.5 - 3.2
All Chemistry Instruments	11	2.86	0.07	2.4	2.9	2.5 - 3.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	3.97	0.12	2.9	4.0	3.5 - 4.4
Beckman AU						
Beckman AU systems	37	3.88	0.09	2.2	3.9	3.4 - 4.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	3.81	0.11	2.9	3.8	3.4 - 4.2
Roche Integra						
Roche Integra	20	4.09	0.11	2.7	4.1	3.6 - 4.5
Siemens Healthcare						
Siemens Dimension	34	2.91	0.05	1.8	2.9	2.6 - 3.2
All Chemistry Instruments	35	2.91	0.05	1.8	2.9	2.6 - 3.3
VITROS						
VITROS 250,350,400 500,700,750,950	32	3.76	0.16	4.4	3.7	3.3 - 4.2
All Chemistry Instruments	38	3.76	0.16	4.2	3.7	3.3 - 4.2

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	0.98	0.31	31.8	1.0	0.3 - 1.7	141	0.41	0.15	37.8	0.4	0.0 - 0.8
All Alfa Wassermann Reagents	19	1.25	0.19	15.0	1.3	0.8 - 1.7	19	0.53	0.09	17.8	0.5	0.3 - 0.8
All Roche Reagents	21	0.70	0.11	15.4	0.7	0.4 - 1.0	21	0.27	0.05	17.1	0.3	0.1 - 0.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	1.25	0.19	15.0	1.3	0.8 - 1.7	19	0.53	0.09	17.8	0.5	0.3 - 0.8
Beckman AU												
Beckman AU systems	27	1.03	0.11	10.7	1.0	0.8 - 1.3	27	0.46	0.06	12.7	0.5	0.3 - 0.6
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	1.17	0.12	10.2	1.1	0.9 - 1.5	11	0.45	0.05	11.5	0.5	0.3 - 0.6
Roche Integra												
Roche Integra	13	0.75	0.08	10.4	0.7	0.5 - 1.0	12	0.30	0.01	0.0	0.3	0.2 - 0.4
Siemens Healthcare												
Siemens Dimension	24	0.74	0.07	9.7	0.8	0.5 - 0.9	25	0.28	0.04	14.6	0.3	0.1 - 0.4
All Chemistry Instruments	26	0.75	0.07	9.5	0.8	0.6 - 0.9	27	0.28	0.04	14.1	0.3	0.2 - 0.4
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	1.04	0.43	41.5	1.2	0.1 - 2.0	17	0.42	0.27	63.3	0.5	0.0 - 1.0
All Chemistry Instruments	21	1.04	0.42	40.6	1.2	0.1 - 1.9	21	0.43	0.26	60.0	0.5	0.0 - 1.0

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	0.71	0.24	34.0	0.8	0.2 - 1.2	141	0.31	0.13	42.3	0.3	0.0 - 0.6
All Alfa Wassermann Reagents	19	0.92	0.14	15.1	0.9	0.6 - 1.2	19	0.41	0.07	18.0	0.4	0.2 - 0.6
All Roche Reagents	21	0.50	0.07	14.9	0.5	0.3 - 0.7	19	0.20	0.01	0.0	0.2	0.1 - 0.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	0.92	0.14	15.1	0.9	0.6 - 1.2	19	0.41	0.07	18.0	0.4	0.2 - 0.6
Beckman AU												
Beckman AU systems	27	0.77	0.08	10.1	0.8	0.6 - 1.0	27	0.36	0.05	14.2	0.4	0.2 - 0.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	0.85	0.08	9.7	0.8	0.6 - 1.1	11	0.35	0.05	15.1	0.3	0.2 - 0.5
Roche Integra												
Roche Integra	13	0.53	0.05	9.1	0.5	0.4 - 0.7	12	0.20	0.01	0.0	0.2	0.1 - 0.3
Siemens Healthcare												
Siemens Dimension	24	0.52	0.06	11.3	0.5	0.4 - 0.7	25	0.19	0.04	23.4	0.2	0.1 - 0.3
All Chemistry Instruments	26	0.52	0.06	11.2	0.5	0.4 - 0.7	27	0.19	0.05	24.6	0.2	0.0 - 0.3
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	0.72	0.36	49.7	0.8	0.0 - 1.5	17	0.35	0.24	69.9	0.4	0.0 - 0.9
All Chemistry Instruments	21	0.72	0.35	48.3	0.8	0.0 - 1.5	21	0.35	0.23	65.1	0.4	0.0 - 0.9

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	0.93	0.30	32.2	1.0	0.3 - 1.6
All Alfa Wassermann Reagents	19	1.23	0.15	12.4	1.2	0.9 - 1.6
All Roche Reagents	21	0.66	0.10	14.9	0.7	0.4 - 0.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	1.23	0.15	12.4	1.2	0.9 - 1.6
Beckman AU						
Beckman AU systems	27	1.00	0.14	13.9	1.0	0.7 - 1.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	1.14	0.11	9.9	1.1	0.9 - 1.4
Roche Integra						
Roche Integra	13	0.71	0.06	9.1	0.7	0.5 - 0.9
Siemens Healthcare						
Siemens Dimension	24	0.69	0.07	10.8	0.7	0.5 - 0.9
All Chemistry Instruments	26	0.69	0.07	10.7	0.7	0.5 - 0.9
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	17	0.98	0.41	42.5	1.1	0.1 - 1.9
All Chemistry Instruments	21	0.97	0.40	41.2	1.1	0.1 - 1.8

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	238	2.64	0.35	13.2	2.7	2.1 - 3.2	235	0.98	0.13	13.6	1.0	0.5 - 1.4
All Alfa Wassermann Reagents	31	3.10	0.19	6.0	3.1	2.4 - 3.8	31	1.19	0.08	7.0	1.2	0.7 - 1.6
All Horiba Pentra Reagents	20	2.60	0.14	5.3	2.6	2.0 - 3.2	20	0.94	0.07	7.2	0.9	0.5 - 1.4
All Roche T. bili Special Reagents	22	2.36	0.13	5.7	2.4	1.8 - 2.9	22	0.85	0.07	7.9	0.9	0.4 - 1.3
Abaxis Piccolo												
Abaxis Piccolo - waived	21	2.15	0.23	10.8	2.1	1.7 - 2.6	21	0.89	0.09	9.6	0.9	0.4 - 1.3
All Chemistry Instruments	30	2.14	0.21	10.0	2.1	1.7 - 2.6	28	0.89	0.08	9.1	0.9	0.4 - 1.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	3.10	0.19	6.1	3.1	2.4 - 3.8	30	1.19	0.08	7.1	1.2	0.7 - 1.6
Beckman AU												
Beckman AU systems	36	2.81	0.19	6.7	2.8	2.2 - 3.4	36	1.06	0.07	6.6	1.1	0.6 - 1.5
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	2.55	0.30	11.6	2.6	2.0 - 3.1	10	0.88	0.14	15.9	0.9	0.4 - 1.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.60	0.14	5.3	2.6	2.0 - 3.2	20	0.94	0.07	7.2	0.9	0.5 - 1.4
Roche Integra-T. bili Gen.3												
Roche Integra	10	2.36	0.08	3.6	2.4	1.8 - 2.9	10	0.86	0.05	6.0	0.9	0.4 - 1.3
All Chemistry Instruments	12	2.37	0.09	3.8	2.4	1.8 - 2.9	12	0.86	0.05	6.0	0.9	0.4 - 1.3
Siemens Healthcare												
Siemens Dimension	33	2.62	0.15	5.7	2.6	2.0 - 3.2	34	0.93	0.08	8.6	0.9	0.5 - 1.4
All Chemistry Instruments	34	2.63	0.15	5.6	2.6	2.1 - 3.2	35	0.93	0.08	8.5	0.9	0.5 - 1.4
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	30	2.89	0.19	6.5	2.9	2.3 - 3.5	29	1.03	0.10	9.4	1.0	0.6 - 1.5
All Chemistry Instruments	35	2.85	0.23	7.9	2.9	2.2 - 3.5	35	1.01	0.11	10.8	1.0	0.6 - 1.5

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	1.87	0.22	12.0	1.9	1.4 - 2.3	215	0.72	0.10	14.3	0.7	0.3 - 1.2
All Alfa Wassermann Reagents	31	2.18	0.13	5.9	2.2	1.7 - 2.7	31	0.88	0.06	6.4	0.9	0.4 - 1.3
All Horiba Pentra Reagents	20	1.81	0.10	5.5	1.8	1.4 - 2.3	20	0.66	0.07	10.5	0.7	0.2 - 1.1
All Roche T. bili Special Reagents	22	1.64	0.09	5.5	1.7	1.2 - 2.1	22	0.62	0.05	8.1	0.6	0.2 - 1.1
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	1.4	1.4 - 2.3	3	-	-	-	0.7	0.3 - 1.2
All Chemistry Instruments	9	-	-	-	1.5	1.0 - 1.9	9	-	-	-	0.7	0.3 - 1.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	2.18	0.13	6.0	2.2	1.7 - 2.7	30	0.88	0.06	6.5	0.9	0.4 - 1.3
Beckman AU												
Beckman AU systems	36	1.96	0.13	6.5	2.0	1.5 - 2.4	36	0.77	0.06	7.6	0.8	0.3 - 1.2
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	1.68	0.20	12.2	1.8	1.2 - 2.1	10	0.70	0.19	27.8	0.7	0.3 - 1.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	1.81	0.10	5.5	1.8	1.4 - 2.3	20	0.66	0.07	10.5	0.7	0.2 - 1.1
Roche Integra-T. bili Gen.3												
Roche Integra	10	1.64	0.05	3.1	1.6	1.2 - 2.1	10	0.62	0.04	6.8	0.6	0.2 - 1.1
All Chemistry Instruments	12	1.64	0.05	3.1	1.6	1.2 - 2.1	12	0.62	0.04	6.3	0.6	0.2 - 1.1
Siemens Healthcare												
Siemens Dimension	32	1.82	0.08	4.3	1.8	1.4 - 2.3	34	0.67	0.06	9.2	0.7	0.2 - 1.1
All Chemistry Instruments	33	1.82	0.08	4.2	1.8	1.4 - 2.3	35	0.67	0.06	9.1	0.7	0.2 - 1.1
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	29	1.96	0.13	6.7	2.0	1.5 - 2.4	29	0.73	0.08	11.0	0.7	0.3 - 1.2
All Chemistry Instruments	36	1.94	0.19	9.9	2.0	1.5 - 2.4	35	0.71	0.09	13.0	0.7	0.3 - 1.2

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	219	2.50	0.31	12.6	2.5	1.9 - 3.0
All Alfa Wassermann Reagents	31	2.91	0.18	6.3	2.9	2.3 - 3.5
All Horiba Pentra Reagents	20	2.42	0.11	4.7	2.4	1.9 - 2.9
All Roche T. bili Special Reagents	22	2.19	0.13	5.8	2.2	1.7 - 2.7
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	1.8	1.4 - 2.3
All Chemistry Instruments	11	1.89	0.14	7.6	1.9	1.4 - 2.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	2.91	0.19	6.4	2.9	2.3 - 3.5
Beckman AU						
Beckman AU systems	36	2.62	0.20	7.7	2.6	2.0 - 3.2
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	2.36	0.31	13.3	2.4	1.8 - 2.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	2.42	0.11	4.7	2.4	1.9 - 2.9
Roche Integra-T. bili Gen.3						
Roche Integra	10	2.21	0.09	4.0	2.2	1.7 - 2.7
All Chemistry Instruments	12	2.21	0.09	4.1	2.2	1.7 - 2.7
Siemens Healthcare						
Siemens Dimension	32	2.46	0.12	5.1	2.5	1.9 - 3.0
All Chemistry Instruments	33	2.46	0.12	5.0	2.5	1.9 - 3.0
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	30	2.68	0.20	7.6	2.7	2.1 - 3.3
All Chemistry Instruments	36	2.61	0.25	9.7	2.6	2.0 - 3.2

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	240	12.36	0.34	2.8	12.4	11.3 - 13.4	238	8.62	0.28	3.3	8.6	7.6 - 9.7
All Arsenazo Methods	119	12.31	0.34	2.7	12.3	11.3 - 13.4	117	8.70	0.33	3.8	8.7	7.7 - 9.8
All CPC Methods	118	12.41	0.34	2.7	12.4	11.4 - 13.5	118	8.56	0.21	2.4	8.6	7.5 - 9.6
Abaxis Piccolo												
Abaxis Piccolo - waived	21	12.34	0.33	2.7	12.3	11.3 - 13.4	21	8.73	0.25	2.9	8.8	7.7 - 9.8
All Chemistry Instruments	29	12.30	0.36	2.9	12.3	11.3 - 13.3	27	8.73	0.23	2.6	8.8	7.7 - 9.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	12.34	0.33	2.7	12.4	11.3 - 13.4	32	8.95	0.29	3.2	9.0	7.9 - 10.0
Beckman AU												
Beckman AU systems	38	12.23	0.34	2.7	12.3	11.2 - 13.3	37	8.54	0.15	1.8	8.6	7.5 - 9.6
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	11.90	0.23	1.9	11.9	10.9 - 12.9	10	8.16	0.22	2.7	8.2	7.1 - 9.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	12.71	0.20	1.5	12.6	11.7 - 13.8	17	8.66	0.15	1.7	8.7	7.6 - 9.7
Roche Integra												
Roche Integra	20	12.49	0.24	1.9	12.5	11.4 - 13.5	20	8.62	0.19	2.2	8.6	7.6 - 9.7
Siemens Healthcare												
Siemens Dimension	33	12.37	0.32	2.6	12.4	11.3 - 13.4	33	8.46	0.25	3.0	8.5	7.4 - 9.5
All Chemistry Instruments	35	12.36	0.31	2.5	12.3	11.3 - 13.4	35	8.45	0.25	3.0	8.5	7.4 - 9.5
VITROS												
VITROS 250,350,400 500,700,750,950	31	12.33	0.26	2.1	12.3	11.3 - 13.4	31	8.63	0.22	2.6	8.6	7.6 - 9.7
All Chemistry Instruments	37	12.34	0.26	2.1	12.3	11.3 - 13.4	37	8.63	0.23	2.6	8.6	7.6 - 9.7

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	220	10.56	0.31	2.9	10.6	9.5 - 11.6	217	8.00	0.28	3.5	8.0	7.0 - 9.1
All Arsenazo Methods	98	10.63	0.34	3.2	10.6	9.6 - 11.7	97	8.07	0.35	4.4	8.0	7.0 - 9.1
All CPC Methods	119	10.50	0.27	2.6	10.5	9.5 - 11.6	118	7.93	0.20	2.5	7.9	6.9 - 9.0
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	10.5	9.6 - 11.7	3	-	-	-	8.3	7.0 - 9.1
All Chemistry Instruments	8	-	-	-	10.7	9.6 - 11.7	8	-	-	-	8.3	7.2 - 9.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	10.81	0.26	2.4	10.8	9.8 - 11.9	32	8.35	0.25	3.0	8.4	7.3 - 9.4
Beckman AU												
Beckman AU systems	38	10.39	0.25	2.4	10.4	9.3 - 11.4	38	7.90	0.19	2.4	7.9	6.8 - 8.9
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	10.06	0.17	1.7	10.1	9.0 - 11.1	10	7.76	0.95	12.3	7.5	6.7 - 8.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	10.74	0.21	2.0	10.7	9.7 - 11.8	17	8.00	0.17	2.2	7.9	7.0 - 9.0
Roche Integra												
Roche Integra	20	10.60	0.23	2.1	10.6	9.6 - 11.6	20	7.99	0.20	2.5	8.0	6.9 - 9.0
Siemens Healthcare												
Siemens Dimension	33	10.40	0.24	2.3	10.4	9.4 - 11.5	32	7.88	0.21	2.6	7.9	6.8 - 8.9
All Chemistry Instruments	35	10.40	0.23	2.2	10.4	9.3 - 11.4	34	7.87	0.20	2.6	7.9	6.8 - 8.9
VITROS												
VITROS 250,350,400 500,700,750,950	31	10.63	0.25	2.4	10.6	9.6 - 11.7	31	7.98	0.21	2.6	8.0	6.9 - 9.0
All Chemistry Instruments	37	10.62	0.25	2.4	10.6	9.6 - 11.7	37	7.99	0.20	2.5	8.0	6.9 - 9.0

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	222	11.89	0.33	2.8	11.9	10.8 - 12.9
All Arsenazo Methods	100	11.92	0.34	2.9	11.9	10.9 - 13.0
All CPC Methods	119	11.87	0.33	2.8	11.9	10.8 - 12.9
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	11.9	10.9 - 13.0
All Chemistry Instruments	10	11.92	0.23	1.9	11.9	10.9 - 13.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	32	12.07	0.32	2.6	12.1	11.0 - 13.1
Beckman AU						
Beckman AU systems	38	11.71	0.32	2.7	11.8	10.7 - 12.8
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	11.42	0.13	1.2	11.4	10.4 - 12.5
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	12.16	0.19	1.6	12.1	11.1 - 13.2
Roche Integra						
Roche Integra	20	11.93	0.25	2.1	11.9	10.9 - 13.0
Siemens Healthcare						
Siemens Dimension	33	11.81	0.33	2.8	11.8	10.8 - 12.9
All Chemistry Instruments	35	11.81	0.32	2.7	11.8	10.8 - 12.9
VITROS						
VITROS 250,350,400 500,700,750,950	31	11.91	0.29	2.4	11.9	10.9 - 13.0
All Chemistry Instruments	37	11.92	0.29	2.4	11.9	10.9 - 13.0

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	236	4.12	0.21	5.2	4.1	3.5 - 4.8	231	1.43	0.09	6.0	1.4	1.1 - 1.8
All Alfa Wassermann Reagents	31	4.06	0.19	4.7	4.1	3.4 - 4.7	30	1.54	0.11	7.4	1.5	1.2 - 1.9
All Roche Reagents	28	3.89	0.25	6.3	3.9	3.3 - 4.5	28	1.40	0.10	6.9	1.4	1.0 - 1.7
All VITROS Reagents	37	4.27	0.10	2.3	4.3	3.6 - 5.0	38	1.39	0.05	3.4	1.4	1.0 - 1.7
Abaxis Piccolo												
Abaxis Piccolo - waived	21	4.25	0.14	3.3	4.3	3.6 - 4.9	21	1.51	0.15	9.6	1.5	1.2 - 1.9
All Chemistry Instruments	29	4.26	0.14	3.3	4.3	3.6 - 5.0	27	1.51	0.13	8.9	1.5	1.2 - 1.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	4.06	0.19	4.7	4.1	3.4 - 4.7	29	1.54	0.12	7.5	1.5	1.2 - 1.9
Beckman AU												
Beckman AU systems	36	4.08	0.11	2.7	4.1	3.4 - 4.7	37	1.41	0.05	3.3	1.4	1.1 - 1.8
All Chemistry Instruments	37	4.08	0.11	2.7	4.1	3.4 - 4.7	38	1.41	0.05	3.3	1.4	1.1 - 1.8
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	3.87	0.12	3.0	3.9	3.2 - 4.5	10	1.41	0.06	4.0	1.4	1.1 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	4.00	0.13	3.2	4.0	3.4 - 4.6	20	1.38	0.06	4.6	1.4	1.0 - 1.7
Roche Integra												
Roche Integra	20	3.83	0.17	4.5	3.8	3.2 - 4.5	19	1.39	0.04	2.9	1.4	1.0 - 1.7
Siemens Healthcare												
Siemens Dimension	33	4.27	0.12	2.9	4.3	3.6 - 5.0	33	1.48	0.06	4.1	1.5	1.1 - 1.8
All Chemistry Instruments	35	4.27	0.12	2.9	4.3	3.6 - 5.0	35	1.47	0.06	4.1	1.5	1.1 - 1.8
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	22	4.27	0.13	3.0	4.3	3.6 - 5.0	22	1.39	0.05	3.8	1.4	1.0 - 1.7
All Chemistry Instruments	27	4.29	0.09	2.2	4.3	3.6 - 5.0	28	1.39	0.05	3.3	1.4	1.0 - 1.7

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	215	2.80	0.13	4.5	2.8	2.3 - 3.3	214	0.98	0.09	9.1	1.0	0.6 - 1.3
All Alfa Wassermann Reagents	31	2.85	0.15	5.1	2.8	2.4 - 3.3	31	1.09	0.07	6.6	1.1	0.7 - 1.4
All Roche Reagents	27	2.70	0.16	6.0	2.7	2.2 - 3.2	27	0.94	0.09	9.9	0.9	0.6 - 1.3
All VITROS Reagents	38	2.83	0.09	3.2	2.8	2.4 - 3.3	38	0.94	0.05	5.2	0.9	0.6 - 1.3
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.9	2.3 - 3.3	3	-	-	-	1.1	0.6 - 1.3
All Chemistry Instruments	8	-	-	-	2.9	2.4 - 3.4	8	-	-	-	1.1	0.8 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	2.85	0.15	5.2	2.9	2.4 - 3.3	30	1.09	0.07	6.7	1.1	0.7 - 1.4
Beckman AU												
Beckman AU systems	37	2.78	0.08	3.0	2.8	2.3 - 3.2	37	0.94	0.06	5.9	0.9	0.6 - 1.3
All Chemistry Instruments	38	2.78	0.09	3.2	2.8	2.3 - 3.2	38	0.94	0.06	5.9	0.9	0.6 - 1.3
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	2.71	0.09	3.2	2.7	2.3 - 3.2	10	1.11	0.32	28.6	1.0	0.8 - 1.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	2.75	0.10	3.6	2.8	2.3 - 3.2	20	0.94	0.05	5.2	0.9	0.6 - 1.3
Roche Integra												
Roche Integra	19	2.67	0.13	5.0	2.7	2.2 - 3.1	20	0.94	0.07	8.0	0.9	0.6 - 1.3
Siemens Healthcare												
Siemens Dimension	33	2.85	0.09	3.1	2.9	2.4 - 3.3	33	1.02	0.06	5.7	1.0	0.7 - 1.4
All Chemistry Instruments	35	2.85	0.09	3.0	2.9	2.4 - 3.3	35	1.01	0.07	7.0	1.0	0.7 - 1.4
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	22	2.82	0.09	3.3	2.8	2.3 - 3.3	22	0.93	0.05	4.9	0.9	0.6 - 1.3
All Chemistry Instruments	28	2.84	0.09	3.2	2.8	2.4 - 3.3	28	0.93	0.05	5.1	0.9	0.6 - 1.3

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	219	3.74	0.19	5.0	3.8	3.1 - 4.4
All Alfa Wassermann Reagents	31	3.72	0.20	5.4	3.8	3.1 - 4.3
All Roche Reagents	28	3.55	0.23	6.3	3.5	3.0 - 4.1
All VITROS Reagents	37	3.86	0.09	2.3	3.9	3.2 - 4.5
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.7	3.2 - 4.4
All Chemistry Instruments	10	3.82	0.10	2.7	3.9	3.2 - 4.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	3.72	0.21	5.5	3.8	3.1 - 4.3
Beckman AU						
Beckman AU systems	35	3.72	0.09	2.4	3.7	3.1 - 4.3
All Chemistry Instruments	37	3.71	0.10	2.8	3.7	3.1 - 4.3
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	3.61	0.11	3.0	3.6	3.0 - 4.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	3.67	0.16	4.2	3.7	3.1 - 4.3
Roche Integra						
Roche Integra	20	3.50	0.17	5.0	3.5	2.9 - 4.1
Siemens Healthcare						
Siemens Dimension	33	3.86	0.11	2.8	3.9	3.2 - 4.5
All Chemistry Instruments	35	3.87	0.11	2.8	3.9	3.2 - 4.5
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	21	3.86	0.09	2.2	3.9	3.2 - 4.5
All Chemistry Instruments	27	3.87	0.08	2.1	3.9	3.2 - 4.5

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	251	212.3	7.7	3.6	213	191 - 234	246	93.1	4.0	4.3	93	83 - 103
All Alfa Wassermann Reagents	34	218.1	6.2	2.9	218	196 - 240	35	97.1	2.6	2.7	97	87 - 107
All Horiba Pentra Reagents	20	213.8	6.1	2.9	214	192 - 236	20	93.5	2.8	3.0	94	84 - 103
All Roche Reagents	28	212.6	4.1	1.9	213	191 - 234	28	92.8	2.3	2.5	93	83 - 103
Abaxis Piccolo												
Abaxis Piccolo - waived	21	205.3	2.4	1.2	205	184 - 226	21	91.5	1.1	1.2	91	82 - 101
All Chemistry Instruments	29	205.3	2.5	1.2	205	184 - 226	27	91.5	1.0	1.1	92	82 - 101
Alere Cholestech LDX												
All Chemistry Instruments	10	207.3	11.3	5.4	205	186 - 229	9	-	-	-	88	75 - 93
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	217.9	6.3	2.9	218	196 - 240	34	97.0	2.6	2.7	97	87 - 107
Beckman AU												
Beckman AU systems	38	215.1	5.4	2.5	215	193 - 237	38	94.2	2.6	2.8	95	84 - 104
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	225.4	8.0	3.5	229	202 - 248	10	99.8	2.8	2.8	101	89 - 110
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	213.8	6.1	2.9	214	192 - 236	20	93.5	2.8	3.0	94	84 - 103
Roche Integra												
Roche Integra	20	212.6	3.5	1.6	212	191 - 234	20	92.9	2.1	2.3	93	83 - 103
Siemens Healthcare												
Siemens Dimension	32	214.3	3.0	1.4	215	192 - 236	32	94.3	1.5	1.6	94	84 - 104
All Chemistry Instruments	35	213.3	4.3	2.0	215	191 - 235	35	93.8	2.0	2.2	94	84 - 104
VITROS												
VITROS 250,350,400 500,700,750,950	32	204.6	5.8	2.8	207	184 - 226	32	86.8	2.7	3.2	86	78 - 96
All Chemistry Instruments	37	204.6	5.4	2.7	206	184 - 226	37	86.9	2.7	3.1	87	78 - 96

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	221	153.8	6.0	3.9	154	138 - 170	221	73.5	3.7	5.0	74	66 - 81
All Alfa Wassermann Reagents	34	158.6	4.4	2.8	159	142 - 175	34	77.1	2.2	2.9	77	69 - 85
All Horiba Pentra Reagents	20	154.3	5.0	3.2	154	138 - 170	20	73.9	2.4	3.3	74	66 - 82
All Roche Reagents	28	154.0	3.1	2.0	155	138 - 170	28	73.3	1.8	2.4	73	65 - 81
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	148	138 - 170	3	-	-	-	73	66 - 81
All Chemistry Instruments	8	-	-	-	148	133 - 164	8	-	-	-	73	65 - 81
Alere Cholestech LDX												
All Chemistry Instruments	2	-	-	-	147	132 - 162	2	-	-	-	66	59 - 73
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	34	158.6	4.4	2.8	159	142 - 175	34	77.1	2.2	2.9	77	69 - 85
Beckman AU												
Beckman AU systems	38	155.6	3.8	2.4	156	140 - 172	38	74.5	2.0	2.7	74	67 - 82
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	163.4	4.0	2.5	165	147 - 180	10	81.1	9.0	11.1	79	72 - 90
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	154.3	5.0	3.2	154	138 - 170	20	73.9	2.4	3.3	74	66 - 82
Roche Integra												
Roche Integra	20	154.2	2.7	1.8	155	138 - 170	20	73.6	1.9	2.5	74	66 - 81
Siemens Healthcare												
Siemens Dimension	33	154.8	2.5	1.6	155	139 - 171	32	74.5	1.3	1.8	74	67 - 82
All Chemistry Instruments	35	154.4	3.0	1.9	154	138 - 170	34	74.3	1.6	2.2	74	66 - 82
VITROS												
VITROS 250,350,400 500,700,750,950	32	145.0	4.3	3.0	146	130 - 160	32	67.9	2.0	2.9	68	61 - 75
All Chemistry Instruments	37	145.0	4.1	2.8	146	130 - 160	37	67.9	2.0	3.0	68	61 - 75

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	220	196.2	6.3	3.2	196	176 - 216
All Alfa Wassermann Reagents	34	200.4	5.6	2.8	201	180 - 221
All Horiba Pentra Reagents	20	197.5	4.9	2.5	197	177 - 218
All Roche Reagents	28	196.0	3.7	1.9	196	176 - 216
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	190	170 - 209
All Chemistry Instruments	10	189.8	1.8	0.9	190	170 - 209
Alere Cholestech LDX						
All Chemistry Instruments	2	-	-	-	194	174 - 213
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	34	200.4	5.6	2.8	201	180 - 221
Beckman AU						
Beckman AU systems	38	198.5	4.8	2.4	199	178 - 219
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	208.3	6.8	3.2	209	187 - 230
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	197.5	4.9	2.5	197	177 - 218
Roche Integra						
Roche Integra	20	196.0	3.4	1.8	196	176 - 216
Siemens Healthcare						
Siemens Dimension	32	197.3	2.9	1.5	198	177 - 218
All Chemistry Instruments	35	196.6	3.7	1.9	197	176 - 217
VITROS						
VITROS 250,350,400 500,700,750,950	32	187.8	5.8	3.1	190	169 - 207
All Chemistry Instruments	37	187.7	5.5	2.9	189	168 - 207

Iron (µg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	198.0	16.6	8.4	198	158 - 238	86	71.4	5.2	7.3	71	57 - 86
All Roche Reagents	12	201.1	8.0	4.0	202	160 - 242	12	77.6	5.5	7.1	77	62 - 94
Beckman AU												
Beckman AU systems	22	211.0	6.0	2.8	212	168 - 254	22	75.8	3.1	4.2	76	60 - 91
Siemens Healthcare												
Siemens Dimension	18	188.4	2.7	1.4	189	150 - 227	18	71.2	2.3	3.2	71	56 - 86
All Chemistry Instruments	19	188.4	2.7	1.4	189	150 - 227	18	70.8	1.5	2.2	71	56 - 85
VITROS												
All Chemistry Instruments	11	221.4	10.3	4.7	223	177 - 266	11	66.8	4.9	7.4	68	53 - 81
	Specimen CH-8						Specimen CH-9					
All Method	88	134.7	9.8	7.2	135	107 - 162	85	51.7	4.9	9.4	52	41 - 63
All Roche Reagents	12	137.8	2.4	1.8	138	110 - 166	12	55.5	2.4	4.2	55	44 - 67
Beckman AU												
Beckman AU systems	22	143.7	4.2	3.0	145	114 - 173	22	54.9	3.5	6.3	55	43 - 66
Siemens Healthcare												
Siemens Dimension	17	129.7	1.6	1.2	130	103 - 156	16	50.9	0.9	1.7	51	40 - 62
All Chemistry Instruments	18	129.8	1.6	1.2	130	103 - 156	17	50.9	0.9	1.8	51	40 - 62
VITROS												
All Chemistry Instruments	11	142.6	10.2	7.1	142	114 - 172	11	44.3	6.1	13.9	45	35 - 54
	Specimen CH-10											
All Method	88	179.0	14.2	7.9	179	143 - 215						
All Roche Reagents	12	180.5	4.5	2.5	181	144 - 217						
Beckman AU												
Beckman AU systems	22	191.1	5.2	2.7	193	152 - 230						
Siemens Healthcare												
Siemens Dimension	18	171.7	2.7	1.6	172	137 - 207						
All Chemistry Instruments	19	171.9	2.7	1.6	172	137 - 207						
VITROS												
All Chemistry Instruments	11	197.7	9.1	4.6	196	158 - 238						

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	6.10	0.19	3.1	6.1	5.5 - 6.7	5	1.52	0.08	5.5	1.5	1.2 - 1.8
<u>Method</u>	<u>Specimen CH-8</u>						<u>Specimen CH-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	3.80	0.16	4.2	3.8	3.3 - 4.3	5	0.78	0.04	5.7	0.8	0.6 - 1.0
<u>Method</u>	<u>Specimen CH-10</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	5.50	0.16	2.9	5.5	5.0 - 6.0						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</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	118	4.04	0.20	4.9	4.1	3.0 - 5.1	114	1.98	0.11	5.5	2.0	1.4 - 2.5
All Horiba Pentra Reagents	15	3.84	0.20	5.3	3.8	2.8 - 4.8	15	1.96	0.15	7.7	2.0	1.4 - 2.5
All Roche Reagents	23	3.97	0.11	2.9	4.0	2.9 - 5.0	23	1.97	0.06	2.8	2.0	1.4 - 2.5
Beckman AU												
Beckman AU systems	24	4.05	0.10	2.5	4.1	3.0 - 5.1	24	1.99	0.06	3.1	2.0	1.4 - 2.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	3.84	0.20	5.3	3.8	2.8 - 4.8	15	1.96	0.15	7.7	2.0	1.4 - 2.5
Roche Integra												
Roche Integra	16	3.92	0.09	2.3	3.9	2.9 - 4.9	16	1.96	0.06	3.2	2.0	1.4 - 2.5
Siemens Healthcare												
Siemens Dimension	19	4.09	0.07	1.8	4.1	3.0 - 5.2	19	1.96	0.07	3.5	2.0	1.4 - 2.5
All Chemistry Instruments	20	4.09	0.07	1.8	4.1	3.0 - 5.2	20	1.97	0.07	3.4	2.0	1.4 - 2.5
VITROS												
VITROS 250,350,400 500,700,750,950	17	4.32	0.11	2.6	4.3	3.2 - 5.4	17	2.09	0.10	4.9	2.1	1.5 - 2.7
All Chemistry Instruments	21	4.30	0.11	2.5	4.3	3.2 - 5.4	21	2.09	0.09	4.5	2.1	1.5 - 2.7

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-8</u>						<u>Specimen CH-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	115	3.03	0.16	5.1	3.0	2.2 - 3.8	116	1.64	0.09	5.6	1.6	1.2 - 2.1
All Horiba Pentra Reagents	15	2.88	0.19	6.6	2.9	2.1 - 3.6	15	1.59	0.14	8.7	1.6	1.1 - 2.0
All Roche Reagents	22	3.01	0.07	2.3	3.0	2.2 - 3.8	23	1.66	0.06	3.6	1.7	1.2 - 2.1
Beckman AU												
Beckman AU systems	24	3.02	0.09	2.9	3.0	2.2 - 3.8	24	1.64	0.07	4.3	1.6	1.2 - 2.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	2.88	0.19	6.6	2.9	2.1 - 3.6	15	1.59	0.14	8.7	1.6	1.1 - 2.0
Roche Integra												
Roche Integra	16	2.98	0.05	1.8	3.0	2.2 - 3.8	16	1.64	0.05	3.1	1.6	1.2 - 2.1
Siemens Healthcare												
Siemens Dimension	19	3.03	0.10	3.5	3.0	2.2 - 3.8	19	1.59	0.08	4.9	1.6	1.1 - 2.0
All Chemistry Instruments	20	3.03	0.10	3.4	3.0	2.2 - 3.8	20	1.60	0.08	4.8	1.6	1.1 - 2.0
VITROS												
VITROS 250,350,400 500,700,750,950	17	3.23	0.13	3.9	3.2	2.4 - 4.1	17	1.72	0.10	5.5	1.7	1.2 - 2.2
All Chemistry Instruments	21	3.22	0.12	3.6	3.2	2.4 - 4.1	21	1.71	0.09	5.0	1.7	1.2 - 2.2
	<u>Specimen CH-10</u>											
All Method	116	3.76	0.19	5.0	3.8	2.8 - 4.8						
All Horiba Pentra Reagents	15	3.52	0.25	7.0	3.6	2.6 - 4.4						
All Roche Reagents	23	3.71	0.10	2.6	3.7	2.7 - 4.7						
Beckman AU												
Beckman AU systems	24	3.75	0.10	2.6	3.8	2.8 - 4.7						
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	3.52	0.25	7.0	3.6	2.6 - 4.4						
Roche Integra												
Roche Integra	16	3.68	0.09	2.3	3.7	2.7 - 4.6						
Siemens Healthcare												
Siemens Dimension	19	3.78	0.09	2.4	3.8	2.8 - 4.8						
All Chemistry Instruments	20	3.79	0.09	2.3	3.8	2.8 - 4.8						
VITROS												
VITROS 250,350,400 500,700,750,950	17	4.01	0.11	2.6	4.0	3.0 - 5.1						
All Chemistry Instruments	20	3.99	0.07	1.8	4.0	2.9 - 5.0						

Phosphorus (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	4.73	0.21	4.5	4.7	4.2 - 5.3	87	2.41	0.14	5.7	2.4	2.1 - 2.8
All Alfa Wassermann Reagents	8	4.45	0.35	7.8	4.5	3.9 - 5.0	8	2.39	0.16	6.9	2.4	2.0 - 2.7
All Roche Reagents	16	4.71	0.14	2.9	4.7	4.2 - 5.3	16	2.39	0.09	3.6	2.4	2.0 - 2.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	4.45	0.35	7.8	4.5	3.9 - 5.0	10	2.39	0.16	6.9	2.4	2.0 - 2.7
Beckman AU												
Beckman AU systems	21	4.63	0.23	5.0	4.6	4.1 - 5.2	21	2.30	0.12	5.0	2.3	2.0 - 2.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	5.04	0.17	3.4	5.1	4.5 - 5.6	10	2.53	0.07	2.8	2.5	2.2 - 2.9
Roche Integra												
Roche Integra	12	4.69	0.14	2.9	4.7	4.1 - 5.2	12	2.38	0.08	3.5	2.4	2.0 - 2.7
Siemens Healthcare												
Siemens Dimension	14	4.84	0.13	2.8	4.8	4.3 - 5.4	13	2.44	0.05	2.1	2.4	2.1 - 2.8
VITROS												
VITROS 250,350,400 500,700,750,950	10	4.60	0.19	4.1	4.6	4.1 - 5.1	10	2.54	0.11	4.4	2.5	2.2 - 2.9
VITROS 5600	5	4.70	0.16	3.4	4.7	4.1 - 5.3	5	2.56	0.17	6.5	2.6	2.2 - 2.9
All Chemistry Instruments	15	4.64	0.18	3.8	4.6	4.1 - 5.2	15	2.55	0.13	5.0	2.6	2.2 - 2.9
	Specimen CH-8						Specimen CH-9					
All Method	86	3.59	0.17	4.6	3.6	3.2 - 4.0	87	2.04	0.13	6.5	2.0	1.7 - 2.4
All Alfa Wassermann Reagents	10	3.44	0.22	6.4	3.5	3.0 - 3.9	8	2.03	0.13	6.3	2.1	1.7 - 2.4
All Roche Reagents	16	3.56	0.11	3.1	3.6	3.1 - 4.0	16	1.99	0.09	4.5	2.0	1.6 - 2.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	3.44	0.22	6.4	3.5	3.0 - 3.9	10	2.03	0.13	6.3	2.1	1.7 - 2.4
Beckman AU												
Beckman AU systems	21	3.47	0.18	5.3	3.5	3.0 - 3.9	21	1.94	0.10	5.0	1.9	1.6 - 2.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	3.84	0.11	2.9	3.8	3.4 - 4.3	10	2.21	0.21	9.4	2.2	1.9 - 2.6
Roche Integra												
Roche Integra	12	3.54	0.11	3.1	3.5	3.1 - 4.0	12	1.98	0.10	4.9	2.0	1.6 - 2.3
Siemens Healthcare												
Siemens Dimension	14	3.68	0.13	3.4	3.7	3.2 - 4.1	14	2.09	0.11	5.1	2.1	1.7 - 2.4
VITROS												
VITROS 250,350,400 500,700,750,950	10	3.58	0.14	3.9	3.6	3.1 - 4.0	10	2.21	0.08	3.5	2.2	1.9 - 2.6
VITROS 5600	5	3.58	0.13	3.6	3.6	3.1 - 4.0	5	2.14	0.11	5.3	2.1	1.8 - 2.5
All Chemistry Instruments	15	3.58	0.13	3.7	3.6	3.1 - 4.0	15	2.19	0.09	4.3	2.2	1.8 - 2.5

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	4.38	0.20	4.5	4.4	3.9 - 4.9
All Alfa Wassermann Reagents	8	4.15	0.26	6.2	4.3	3.7 - 4.6
All Roche Reagents	16	4.35	0.13	3.0	4.3	3.8 - 4.9
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	4.15	0.26	6.2	4.3	3.7 - 4.6
Beckman AU						
Beckman AU systems	21	4.28	0.23	5.3	4.3	3.8 - 4.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	4.69	0.18	3.8	4.7	4.1 - 5.2
Roche Integra						
Roche Integra	12	4.33	0.11	2.6	4.3	3.8 - 4.8
Siemens Healthcare						
Siemens Dimension	14	4.46	0.13	3.0	4.4	3.9 - 5.0
VITROS						
VITROS 250,350,400 500,700,750,950	10	4.36	0.15	3.5	4.4	3.8 - 4.9
VITROS 5600	5	4.38	0.16	3.8	4.3	3.9 - 4.9
All Chemistry Instruments	15	4.36	0.15	3.4	4.4	3.8 - 4.9

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	234	7.18	0.28	3.9	7.2	6.4 - 7.9	229	3.80	0.13	3.3	3.8	3.4 - 4.2
All Alfa Wassermann Reagents	30	7.37	0.18	2.4	7.4	6.6 - 8.2	31	3.84	0.10	2.5	3.8	3.4 - 4.3
All Horiba Pentra Reagents	20	7.15	0.23	3.2	7.2	6.4 - 7.9	20	3.75	0.14	3.7	3.8	3.3 - 4.2
All Roche Reagents	28	7.19	0.17	2.4	7.1	6.4 - 8.0	28	3.80	0.11	2.8	3.8	3.4 - 4.2
Abaxis Piccolo												
Abaxis Piccolo - waived	20	7.20	0.16	2.2	7.2	6.4 - 8.0	20	3.88	0.07	1.8	3.9	3.4 - 4.3
All Chemistry Instruments	29	7.22	0.17	2.3	7.2	6.4 - 8.0	27	3.88	0.06	1.6	3.9	3.4 - 4.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	7.37	0.18	2.4	7.4	6.6 - 8.2	30	3.84	0.10	2.5	3.8	3.4 - 4.3
Beckman AU												
Beckman AU systems	37	7.05	0.17	2.5	7.1	6.3 - 7.8	37	3.69	0.09	2.5	3.7	3.3 - 4.1
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	7.15	0.23	3.2	7.2	6.4 - 7.9	20	3.75	0.14	3.7	3.8	3.3 - 4.2
Roche Integra												
Roche Integra	20	7.14	0.16	2.3	7.1	6.4 - 7.9	20	3.77	0.10	2.8	3.7	3.3 - 4.2
Siemens Healthcare												
Siemens Dimension	33	7.48	0.09	1.2	7.5	6.7 - 8.3	33	3.92	0.08	1.9	3.9	3.5 - 4.4
All Chemistry Instruments	34	7.48	0.09	1.2	7.5	6.7 - 8.3	34	3.93	0.08	1.9	3.9	3.5 - 4.4
VITROS												
VITROS 250,350,400 500,700,750,950	32	6.82	0.22	3.3	6.8	6.1 - 7.6	32	3.78	0.14	3.7	3.8	3.4 - 4.2
All Chemistry Instruments	38	6.83	0.22	3.2	6.8	6.1 - 7.6	37	3.76	0.12	3.1	3.8	3.3 - 4.2

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	213	5.52	0.18	3.3	5.5	4.9 - 6.1	212	3.24	0.13	3.9	3.2	2.9 - 3.6
All Alfa Wassermann Reagents	31	5.64	0.13	2.2	5.7	5.0 - 6.3	31	3.27	0.11	3.4	3.3	2.9 - 3.7
All Horiba Pentra Reagents	20	5.46	0.16	3.0	5.5	4.9 - 6.1	20	3.19	0.11	3.5	3.2	2.8 - 3.6
All Roche Reagents	28	5.53	0.13	2.4	5.5	4.9 - 6.1	28	3.22	0.11	3.4	3.2	2.8 - 3.6
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	5.5	4.9 - 6.1	3	-	-	-	3.3	2.9 - 3.6
All Chemistry Instruments	9	-	-	-	5.5	4.9 - 6.1	9	-	-	-	3.3	2.9 - 3.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	5.64	0.13	2.3	5.7	5.0 - 6.3	30	3.28	0.11	3.5	3.3	2.9 - 3.7
Beckman AU												
Beckman AU systems	37	5.41	0.13	2.4	5.4	4.8 - 6.0	37	3.13	0.09	2.7	3.1	2.8 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	5.46	0.16	3.0	5.5	4.9 - 6.1	20	3.19	0.11	3.5	3.2	2.8 - 3.6
Roche Integra												
Roche Integra	20	5.49	0.13	2.3	5.5	4.9 - 6.1	20	3.20	0.11	3.6	3.2	2.8 - 3.6
Siemens Healthcare												
Siemens Dimension	33	5.72	0.08	1.3	5.7	5.1 - 6.3	32	3.35	0.07	2.0	3.4	3.0 - 3.7
All Chemistry Instruments	34	5.73	0.08	1.3	5.7	5.1 - 6.3	33	3.35	0.07	2.0	3.4	3.0 - 3.7
VITROS												
VITROS 250,350,400 500,700,750,950	31	5.37	0.15	2.7	5.4	4.8 - 6.0	32	3.26	0.12	3.8	3.3	2.9 - 3.6
All Chemistry Instruments	37	5.36	0.14	2.6	5.4	4.8 - 5.9	38	3.25	0.12	3.7	3.2	2.9 - 3.6

Protein, Total (g/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	215	6.71	0.25	3.7	6.7	6.0 - 7.4
All Alfa Wassermann Reagents	29	6.92	0.13	1.9	6.9	6.2 - 7.7
All Horiba Pentra Reagents	20	6.67	0.22	3.3	6.7	5.9 - 7.4
All Roche Reagents	28	6.72	0.14	2.1	6.7	6.0 - 7.4
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	6.7	6.0 - 7.4
All Chemistry Instruments	11	6.71	0.14	2.0	6.7	6.0 - 7.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	28	6.92	0.14	2.0	6.9	6.2 - 7.7
Beckman AU						
Beckman AU systems	37	6.59	0.17	2.6	6.6	5.9 - 7.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	6.67	0.22	3.3	6.7	5.9 - 7.4
Roche Integra						
Roche Integra	19	6.65	0.09	1.4	6.6	5.9 - 7.4
Siemens Healthcare						
Siemens Dimension	32	6.98	0.08	1.2	7.0	6.2 - 7.7
All Chemistry Instruments	33	6.98	0.08	1.1	7.0	6.2 - 7.7
VITROS						
VITROS 250,350,400 500,700,750,950	31	6.46	0.19	2.9	6.5	5.8 - 7.2
All Chemistry Instruments	37	6.46	0.18	2.8	6.5	5.8 - 7.2

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	236	35.8	2.5	6.9	36	32 - 40	234	13.3	1.2	8.8	13	11 - 16
All Alfa Wassermann Reagents	32	36.3	1.8	5.1	36	33 - 40	32	13.8	0.8	6.1	14	11 - 16
All Horiba Pentra Reagents	20	35.5	0.9	2.7	36	32 - 39	20	13.0	0.6	4.3	13	11 - 15
All Roche Reagents	28	36.8	1.3	3.5	37	33 - 41	28	13.5	0.6	4.3	14	11 - 16
Abaxis Piccolo												
Abaxis Piccolo - waived	19	34.9	0.7	2.1	35	31 - 39	20	12.0	0.5	4.3	12	9 - 14
All Chemistry Instruments	27	34.9	0.8	2.3	35	31 - 39	26	12.0	0.5	4.1	12	10 - 14
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	36.3	2.0	5.4	36	33 - 40	26	13.8	0.8	6.0	14	11 - 16
Beckman AU												
Beckman AU systems	37	37.6	1.3	3.4	38	34 - 41	37	14.1	0.6	4.0	14	12 - 17
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	37.2	1.4	3.8	38	33 - 41	10	14.7	1.6	11.1	14	12 - 17
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	35.5	0.9	2.7	36	32 - 39	20	13.0	0.6	4.3	13	11 - 15
Roche Integra												
Roche Integra	20	36.4	1.0	2.7	36	33 - 40	20	13.4	0.5	3.7	13	11 - 16
Siemens Healthcare												
Siemens Dimension	33	37.7	1.0	2.7	38	34 - 42	33	14.1	0.6	4.1	14	12 - 17
All Chemistry Instruments	35	37.6	1.0	2.7	38	34 - 42	35	14.1	0.6	4.3	14	12 - 17
VITROS												
VITROS 250,350,400 500,700,750,950	32	31.4	0.7	2.3	31	28 - 35	32	11.7	0.5	4.7	12	9 - 14
All Chemistry Instruments	38	31.4	0.8	2.4	31	28 - 35	38	11.6	0.6	4.8	12	9 - 14

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	216	24.7	1.9	7.8	25	22 - 27	216	9.7	0.9	9.5	10	7 - 12
All Alfa Wassermann Reagents	32	25.2	1.4	5.5	25	22 - 28	31	10.1	0.4	4.2	10	8 - 13
All Horiba Pentra Reagents	20	24.2	0.9	3.7	24	22 - 27	20	9.6	0.6	6.3	10	7 - 12
All Roche Reagents	28	25.1	0.9	3.5	25	22 - 28	28	9.8	0.5	4.8	10	7 - 12
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	23	22 - 27	3	-	-	-	8	7 - 12
All Chemistry Instruments	8	-	-	-	23	20 - 26	8	-	-	-	8	6 - 11
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	25.3	1.5	5.8	25	23 - 28	25	10.1	0.4	4.3	10	8 - 13
Beckman AU												
Beckman AU systems	36	26.0	0.9	3.6	26	23 - 29	37	10.3	0.5	5.0	10	8 - 13
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	25.7	0.7	2.6	26	23 - 29	10	11.6	3.3	28.8	11	9 - 14
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	24.2	0.9	3.7	24	22 - 27	20	9.6	0.6	6.3	10	7 - 12
Roche Integra												
Roche Integra	20	24.9	0.7	3.0	25	22 - 28	20	9.8	0.4	4.6	10	7 - 12
Siemens Healthcare												
Siemens Dimension	33	26.1	0.9	3.3	26	23 - 29	33	10.1	0.6	5.7	10	8 - 13
All Chemistry Instruments	35	26.1	0.8	3.2	26	23 - 29	35	10.1	0.6	5.6	10	8 - 13
VITROS												
VITROS 250,350,400 500,700,750,950	31	21.6	0.6	2.6	22	19 - 24	32	8.4	0.5	5.9	8	6 - 11
All Chemistry Instruments	37	21.4	0.6	3.0	21	19 - 24	38	8.3	0.5	5.8	8	6 - 11

Urea Nitrogen (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	219	32.6	2.4	7.5	33	29 - 36
All Alfa Wassermann Reagents	32	33.2	1.8	5.4	33	30 - 37
All Horiba Pentra Reagents	20	32.1	0.8	2.6	32	29 - 35
All Roche Reagents	28	33.3	1.1	3.4	33	30 - 37
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	31	28 - 35
All Chemistry Instruments	10	31.3	0.7	2.2	31	28 - 35
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	33.3	1.9	5.7	33	30 - 37
Beckman AU						
Beckman AU systems	37	34.1	1.2	3.5	34	30 - 38
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	34.6	1.2	3.4	35	31 - 38
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	32.1	0.8	2.6	32	29 - 35
Roche Integra						
Roche Integra	20	32.9	0.9	2.8	33	29 - 36
Siemens Healthcare						
Siemens Dimension	33	34.3	1.1	3.1	34	31 - 38
All Chemistry Instruments	35	34.3	1.1	3.1	34	31 - 38
VITROS						
VITROS 250,350,400 500,700,750,950	32	28.3	0.8	2.9	28	25 - 31
All Chemistry Instruments	38	28.3	0.8	2.8	28	25 - 31

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	146	9.49	0.32	3.4	9.5	7.8 - 11.2	143	3.62	0.21	5.9	3.6	3.0 - 4.3
All Alfa Wassermann Reagents	18	9.78	0.63	6.4	9.8	8.1 - 11.5	18	4.27	0.26	6.1	4.2	3.5 - 5.0
All Roche Reagents	22	9.50	0.23	2.4	9.5	7.8 - 11.2	22	3.57	0.08	2.2	3.6	2.9 - 4.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	9.78	0.63	6.4	9.8	8.1 - 11.5	18	4.27	0.26	6.1	4.2	3.5 - 5.0
Beckman AU												
Beckman AU systems	30	9.68	0.20	2.0	9.7	8.0 - 11.4	31	3.64	0.09	2.4	3.6	3.0 - 4.3
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	9.39	0.15	1.6	9.4	7.7 - 11.0	13	3.51	0.12	3.4	3.5	2.9 - 4.2
Roche Integra												
Roche Integra	14	9.52	0.27	2.8	9.5	7.9 - 11.2	14	3.56	0.09	2.6	3.6	2.9 - 4.2
Siemens Healthcare												
Siemens Dimension	24	9.24	0.16	1.7	9.2	7.6 - 10.9	23	3.50	0.10	2.9	3.5	2.9 - 4.1
All Chemistry Instruments	25	9.24	0.16	1.7	9.2	7.6 - 10.9	24	3.50	0.10	2.9	3.5	2.9 - 4.1
VITROS												
VITROS 250,350,400 500,700,750,950	19	9.34	0.25	2.7	9.3	7.7 - 11.0	19	3.50	0.14	3.9	3.5	2.9 - 4.1
All Chemistry Instruments	25	9.37	0.23	2.5	9.4	7.7 - 11.0	25	3.51	0.13	3.7	3.5	2.9 - 4.2

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	147	6.59	0.24	3.6	6.6	5.4 - 7.8	145	2.66	0.30	11.4	2.6	2.2 - 3.2
All Alfa Wassermann Reagents	18	6.87	0.28	4.0	6.9	5.7 - 8.1	18	3.49	0.19	5.4	3.5	2.8 - 4.1
All Roche Reagents	22	6.60	0.15	2.3	6.6	5.4 - 7.8	22	2.56	0.07	2.6	2.6	2.1 - 3.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	6.87	0.28	4.0	6.9	5.7 - 8.1	18	3.49	0.19	5.4	3.5	2.8 - 4.1
Beckman AU												
Beckman AU systems	29	6.69	0.10	1.5	6.7	5.5 - 7.9	31	2.67	0.10	3.7	2.7	2.2 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	6.51	0.16	2.4	6.5	5.4 - 7.7	12	2.54	0.07	2.6	2.6	2.1 - 3.0
Roche Integra												
Roche Integra	14	6.60	0.18	2.7	6.6	5.4 - 7.8	14	2.56	0.07	2.9	2.6	2.1 - 3.1
Siemens Healthcare												
Siemens Dimension	24	6.38	0.14	2.2	6.4	5.2 - 7.5	23	2.53	0.09	3.4	2.5	2.0 - 3.0
All Chemistry Instruments	25	6.39	0.14	2.1	6.4	5.3 - 7.5	24	2.53	0.09	3.4	2.5	2.0 - 3.0
VITROS												
VITROS 250,350,400 500,700,750,950	19	6.45	0.20	3.0	6.5	5.3 - 7.6	19	2.49	0.10	3.9	2.5	2.0 - 3.0
All Chemistry Instruments	25	6.46	0.19	2.9	6.5	5.3 - 7.6	25	2.50	0.09	3.7	2.5	2.0 - 3.0

Uric Acid (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	147	8.62	0.29	3.4	8.6	7.1 - 10.1
All Alfa Wassermann Reagents	18	8.79	0.31	3.5	8.9	7.2 - 10.3
All Roche Reagents	22	8.65	0.23	2.6	8.7	7.1 - 10.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	8.79	0.31	3.5	8.9	7.2 - 10.3
Beckman AU						
Beckman AU systems	30	8.78	0.19	2.2	8.8	7.2 - 10.3
Horiba ABX Pentra						
Horiba ABX Pentra 400	13	8.59	0.17	1.9	8.6	7.1 - 10.1
Roche Integra						
Roche Integra	14	8.65	0.28	3.2	8.7	7.1 - 10.2
Siemens Healthcare						
Siemens Dimension	24	8.39	0.18	2.2	8.4	6.9 - 9.9
All Chemistry Instruments	25	8.39	0.18	2.2	8.4	6.9 - 9.9
VITROS						
VITROS 250,350,400 500,700,750,950	19	8.46	0.26	3.0	8.5	7.0 - 9.9
All Chemistry Instruments	25	8.48	0.24	2.8	8.5	7.0 - 10.0

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	218	115.8	3.1	2.7	116	110 - 122	228	97.3	2.4	2.5	97	92 - 103
Abaxis Piccolo												
Abaxis Piccolo - waived	21	115.4	1.8	1.6	115	109 - 122	21	101.2	1.8	1.8	101	96 - 107
All Chemistry Instruments	29	115.1	1.9	1.6	115	109 - 121	27	101.0	1.7	1.7	101	95 - 107
ISE Diluted												
Beckman AU systems	38	112.8	1.0	0.9	113	107 - 119	38	97.2	0.9	0.9	97	92 - 103
Roche Integra	19	118.2	3.0	2.6	117	112 - 125	20	98.4	4.0	4.1	99	93 - 104
Siemens Dimension QuickLyte - Xpand/EXL	24	118.6	1.4	1.2	119	112 - 125	24	96.5	0.8	0.8	97	91 - 102
All Chemistry Instruments	111	116.0	3.6	3.1	116	110 - 122	113	96.6	2.1	2.2	97	91 - 102
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	31	118.5	1.3	1.1	118	112 - 125	31	97.0	1.1	1.1	97	92 - 102
Horiba ABX Pentra 400	10	117.7	2.5	2.2	118	111 - 124	17	97.5	3.3	3.3	97	92 - 103
All Chemistry Instruments	43	118.2	1.9	1.6	118	112 - 125	50	97.1	2.1	2.2	97	92 - 102
VITROS												
VITROS 250,350,400 500,700,750,950	30	113.2	2.2	2.0	114	107 - 119	30	96.8	1.7	1.8	97	91 - 102
All Chemistry Instruments	36	113.4	2.2	2.0	114	107 - 120	36	96.9	1.6	1.7	97	92 - 102
	Specimen CH-8						Specimen CH-9					
All Method	202	106.5	2.2	2.0	107	101 - 112	211	94.2	2.4	2.6	94	89 - 99
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	108	102 - 114	3	-	-	-	96	92 - 103
All Chemistry Instruments	8	-	-	-	107	102 - 114	8	-	-	-	97	92 - 103
ISE Diluted												
Beckman AU systems	36	105.2	0.8	0.8	105	99 - 111	37	94.8	0.9	0.9	95	90 - 100
Roche Integra	20	109.2	4.5	4.1	108	103 - 115	20	95.5	4.0	4.2	96	90 - 101
Siemens Dimension QuickLyte - Xpand/EXL	24	107.8	0.7	0.6	108	102 - 114	24	92.9	0.7	0.8	93	88 - 98
All Chemistry Instruments	111	106.6	2.3	2.2	106	101 - 112	115	94.0	2.7	2.8	94	89 - 99
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	31	107.3	0.9	0.9	107	101 - 113	31	93.7	1.3	1.4	94	89 - 99
Horiba ABX Pentra 400	17	108.4	4.0	3.7	108	102 - 114	17	94.4	2.6	2.7	95	89 - 100
All Chemistry Instruments	49	107.8	2.3	2.1	107	102 - 114	50	94.0	2.0	2.1	94	89 - 99
VITROS												
VITROS 250,350,400 500,700,750,950	30	105.5	2.0	1.9	106	100 - 111	30	94.5	2.0	2.1	95	89 - 100
All Chemistry Instruments	36	105.4	1.9	1.8	106	100 - 111	36	94.5	1.9	2.0	95	89 - 100

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	208	113.4	3.2	2.8	114	107 - 120
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	112	106 - 119
All Chemistry Instruments	10	112.5	2.0	1.7	113	106 - 119
ISE Diluted						
Beckman AU systems	37	110.6	0.9	0.8	111	105 - 117
Roche Integra	19	115.9	3.6	3.1	115	110 - 122
Siemens Dimension QuickLyte - Xpand/EXL	24	115.5	1.0	0.8	116	109 - 122
All Chemistry Instruments	113	113.2	3.1	2.7	113	107 - 119
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	31	115.3	1.2	1.0	115	109 - 122
Horiba ABX Pentra 400	14	115.7	4.6	4.0	117	109 - 122
All Chemistry Instruments	46	115.6	2.5	2.1	115	109 - 122
VITROS						
VITROS 250,350,400 500,700,750,950	30	111.5	2.8	2.5	112	105 - 118
All Chemistry Instruments	36	111.6	2.8	2.5	112	106 - 118

CO₂ (mmol/L)

<u>Method/Instrument</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</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	228	33.4	2.9	8.7	33	26 - 41	228	19.1	2.1	10.9	19	15 - 23
Abaxis Piccolo												
Abaxis Piccolo - waived	19	31.1	1.5	4.9	31	24 - 38	19	19.4	1.0	4.9	19	15 - 24
All Chemistry Instruments	26	31.2	1.4	4.6	31	24 - 38	24	19.4	1.0	5.0	19	15 - 24
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	19	33.7	3.3	9.9	35	26 - 41	19	19.7	2.3	11.7	20	15 - 24
Beckman AU systems	27	35.9	2.3	6.5	36	28 - 44	28	19.7	1.5	7.5	20	15 - 24
Horiba ABX Pentra 400	15	33.2	2.3	7.0	34	26 - 40	15	19.4	2.0	10.5	20	15 - 24
Roche Integra	17	33.1	1.5	4.5	33	26 - 40	17	19.1	1.7	9.2	19	15 - 23
Siemens Dimension	26	35.5	2.0	5.8	36	28 - 43	26	21.0	1.2	5.9	21	16 - 26
All Chemistry Instruments	122	34.2	2.8	8.2	35	27 - 42	120	19.9	1.8	8.9	20	15 - 24
ISE Diluted												
All Chemistry Instruments	22	34.4	3.4	9.9	35	27 - 42	22	19.4	1.9	9.8	20	15 - 24
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	12	33.0	3.1	9.5	33	26 - 40	12	18.3	2.1	11.5	19	14 - 22
All Chemistry Instruments	19	33.3	3.3	9.9	34	26 - 40	19	18.7	1.9	10.2	19	14 - 23
VITROS												
VITROS 250,350,400 500,700,750,950	31	31.8	1.8	5.7	32	25 - 39	31	17.0	1.4	8.2	17	13 - 21
All Chemistry Instruments	35	31.9	1.7	5.4	32	25 - 39	37	16.9	1.5	8.7	17	13 - 21
<u>Method/Instrument</u>	<u>Specimen CH-8</u>						<u>Specimen CH-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	211	26.1	2.6	10.0	26	20 - 32	212	16.3	2.1	12.7	17	13 - 20
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	26	20 - 32	3	-	-	-	15	12 - 20
All Chemistry Instruments	8	-	-	-	26	20 - 32	8	-	-	-	16	12 - 20
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	19	26.3	3.2	12.0	27	21 - 32	19	16.7	1.9	11.5	17	13 - 21
Beckman AU systems	28	27.4	2.0	7.4	28	21 - 33	28	16.9	1.2	7.2	17	13 - 21
Horiba ABX Pentra 400	15	26.4	2.1	7.9	27	21 - 32	15	17.1	1.9	11.2	17	13 - 21
Roche Integra	17	25.6	2.0	7.7	25	20 - 31	17	15.9	1.9	12.0	16	12 - 20
Siemens Dimension	26	28.1	1.9	6.8	29	22 - 34	26	18.2	1.7	9.1	19	14 - 22
All Chemistry Instruments	120	26.9	2.3	8.4	27	21 - 33	122	17.0	1.9	11.0	17	13 - 21
ISE Diluted												
All Chemistry Instruments	22	26.8	2.6	9.8	27	21 - 33	22	16.5	1.8	11.2	17	13 - 20
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	12	25.6	2.5	9.9	26	20 - 31	12	16.5	2.2	13.6	17	13 - 20
All Chemistry Instruments	19	25.5	2.7	10.7	26	20 - 31	19	16.6	1.9	11.2	17	13 - 20
VITROS												
VITROS 250,350,400 500,700,750,950	31	23.7	1.9	8.0	24	18 - 29	31	14.3	1.8	12.4	15	11 - 18
All Chemistry Instruments	37	23.7	1.8	7.7	24	18 - 29	37	14.3	1.7	11.9	15	11 - 18

CO₂ (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	213	30.7	3.2	10.4	31	24 - 37
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	30	23 - 36
All Chemistry Instruments	10	29.6	1.3	4.6	30	23 - 36
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	19	30.3	3.3	11.1	31	24 - 37
Beckman AU systems	29	31.9	2.9	9.0	33	25 - 39
Horiba ABX Pentra 400	15	30.8	2.7	8.7	31	24 - 37
Roche Integra	17	29.9	2.5	8.4	30	23 - 36
Siemens Dimension	26	33.5	2.1	6.2	34	26 - 41
All Chemistry Instruments	123	31.3	3.0	9.6	32	25 - 38
ISE Diluted						
All Chemistry Instruments	22	31.8	3.3	10.2	32	25 - 39
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	12	31.9	3.5	11.0	33	25 - 39
All Chemistry Instruments	19	31.8	3.0	9.6	32	25 - 39
VITROS						
VITROS 250,350,400 500,700,750,950	31	27.9	2.4	8.6	28	22 - 34
All Chemistry Instruments	36	27.8	2.5	8.9	28	22 - 34

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	238	6.14	0.17	2.7	6.1	5.6 - 6.7	234	3.42	0.08	2.2	3.4	2.9 - 4.0
Abaxis Piccolo												
Abaxis Piccolo - waived	21	6.05	0.22	3.6	6.1	5.5 - 6.6	21	3.33	0.13	3.8	3.3	2.8 - 3.9
All Chemistry Instruments	29	6.06	0.21	3.5	6.1	5.5 - 6.6	27	3.32	0.14	4.1	3.3	2.8 - 3.9
ISE Diluted												
Beckman AU systems	38	6.00	0.07	1.1	6.0	5.4 - 6.5	38	3.40	0.04	1.3	3.4	2.8 - 3.9
Roche Integra	20	6.09	0.06	1.0	6.1	5.5 - 6.6	20	3.43	0.05	1.4	3.4	2.9 - 4.0
Siemens Dimension QuickLyte - Xpand/EXL	25	6.14	0.05	0.8	6.1	5.6 - 6.7	24	3.40	0.01	0.0	3.4	2.9 - 3.9
All Chemistry Instruments	116	6.08	0.11	1.8	6.1	5.5 - 6.6	114	3.41	0.05	1.5	3.4	2.9 - 4.0
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	31	6.37	0.11	1.7	6.4	5.8 - 6.9	31	3.42	0.07	2.0	3.4	2.9 - 4.0
Horiba ABX Pentra 400	18	6.03	0.08	1.3	6.0	5.5 - 6.6	17	3.40	0.06	1.8	3.4	2.9 - 3.9
All Chemistry Instruments	53	6.24	0.19	3.0	6.3	5.7 - 6.8	52	3.42	0.07	2.0	3.4	2.9 - 4.0
VITROS												
VITROS 250,350,400 500,700,750,950	32	6.26	0.12	1.9	6.3	5.7 - 6.8	32	3.48	0.06	1.8	3.5	2.9 - 4.0
All Chemistry Instruments	38	6.26	0.11	1.8	6.3	5.7 - 6.8	38	3.48	0.07	1.9	3.5	2.9 - 4.0
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	218	4.78	0.09	2.0	4.8	4.2 - 5.3	216	2.98	0.08	2.6	3.0	2.4 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	4.7	4.2 - 5.3	3	-	-	-	2.9	2.3 - 3.4
All Chemistry Instruments	8	-	-	-	4.7	4.2 - 5.3	8	-	-	-	2.9	2.3 - 3.4
ISE Diluted												
Beckman AU systems	38	4.71	0.06	1.2	4.7	4.2 - 5.3	38	2.98	0.05	1.5	3.0	2.4 - 3.5
Roche Integra	20	4.78	0.05	1.1	4.8	4.2 - 5.3	19	3.00	0.01	0.0	3.0	2.5 - 3.5
Siemens Dimension QuickLyte - Xpand/EXL	25	4.79	0.04	0.9	4.8	4.2 - 5.3	25	2.96	0.05	1.7	3.0	2.4 - 3.5
All Chemistry Instruments	117	4.77	0.08	1.7	4.8	4.2 - 5.3	116	2.98	0.06	2.0	3.0	2.4 - 3.5
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	31	4.82	0.07	1.4	4.8	4.3 - 5.4	30	2.93	0.07	2.4	2.9	2.4 - 3.5
Horiba ABX Pentra 400	18	4.69	0.07	1.4	4.7	4.1 - 5.2	18	3.01	0.10	3.2	3.0	2.5 - 3.6
All Chemistry Instruments	53	4.77	0.09	1.9	4.8	4.2 - 5.3	51	2.96	0.08	2.6	3.0	2.4 - 3.5
VITROS												
VITROS 250,350,400 500,700,750,950	32	4.87	0.09	1.8	4.9	4.3 - 5.4	32	3.04	0.07	2.2	3.0	2.5 - 3.6
All Chemistry Instruments	38	4.87	0.09	1.9	4.9	4.3 - 5.4	38	3.03	0.07	2.2	3.0	2.5 - 3.6

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	218	5.75	0.13	2.2	5.7	5.2 - 6.3
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	5.6	5.2 - 6.2
All Chemistry Instruments	10	5.70	0.19	3.3	5.8	5.2 - 6.2
ISE Diluted						
Beckman AU systems	37	5.64	0.06	1.1	5.6	5.1 - 6.2
Roche Integra	20	5.72	0.06	1.0	5.7	5.2 - 6.3
Siemens Dimension QuickLyte - Xpand/EXL	25	5.74	0.05	0.9	5.7	5.2 - 6.3
All Chemistry Instruments	115	5.70	0.08	1.5	5.7	5.2 - 6.3
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	30	5.88	0.09	1.5	5.9	5.3 - 6.4
Horiba ABX Pentra 400	18	5.64	0.06	1.1	5.7	5.1 - 6.2
All Chemistry Instruments	52	5.79	0.13	2.3	5.8	5.2 - 6.3
VITROS						
VITROS 250,350,400 500,700,750,950	32	5.89	0.11	1.8	5.9	5.3 - 6.4
All Chemistry Instruments	38	5.88	0.11	1.9	5.9	5.3 - 6.4

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.

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	239	162.3	4.9	3.0	161	158 - 167	238	133.3	2.7	2.0	133	129 - 138
Abaxis Piccolo												
Abaxis Piccolo - waived	21	164.3	2.5	1.5	165	160 - 169	21	135.6	1.8	1.3	136	131 - 140
All Chemistry Instruments	29	163.7	2.6	1.6	164	159 - 168	27	135.3	2.0	1.4	136	131 - 140
ISE Diluted												
Beckman AU systems	36	158.1	1.1	0.7	158	154 - 163	38	131.8	1.4	1.0	132	127 - 136
Roche Integra	20	158.4	1.3	0.9	159	154 - 163	20	132.6	1.2	0.9	133	128 - 137
Siemens Dimension QuickLyte - Xpand/EXL	25	160.2	1.4	0.9	160	156 - 165	26	134.8	1.2	0.9	135	130 - 139
All Chemistry Instruments	112	158.7	1.9	1.2	159	154 - 163	117	132.8	1.9	1.4	133	128 - 137
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	32	164.8	1.4	0.8	165	160 - 169	32	130.8	1.0	0.8	131	126 - 135
Horiba ABX Pentra 400	18	162.5	1.6	1.0	162	158 - 167	18	131.4	1.1	0.9	131	127 - 136
All Chemistry Instruments	52	163.9	1.9	1.2	164	159 - 168	52	131.1	1.1	0.8	131	127 - 136
VITROS												
VITROS 250,350,400 500,700,750,950	32	170.2	2.3	1.3	170	166 - 175	32	137.3	1.7	1.3	137	133 - 142
All Chemistry Instruments	38	170.4	2.3	1.4	170	166 - 175	38	137.2	1.7	1.2	137	133 - 142
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	218	147.6	3.5	2.3	147	143 - 152	218	128.8	2.6	2.1	128	124 - 133
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	150	144 - 153	3	-	-	-	131	126 - 135
All Chemistry Instruments	8	-	-	-	149	144 - 153	8	-	-	-	130	126 - 135
ISE Diluted												
Beckman AU systems	36	145.4	1.3	0.9	146	141 - 150	38	127.7	1.2	1.0	128	123 - 132
Roche Integra	20	145.8	1.3	0.9	146	141 - 150	20	128.0	1.4	1.1	128	124 - 132
Siemens Dimension QuickLyte - Xpand/EXL	26	147.9	1.5	1.0	148	143 - 152	26	130.6	1.1	0.8	130	126 - 135
All Chemistry Instruments	115	145.9	1.8	1.3	146	141 - 150	117	128.6	1.8	1.4	128	124 - 133
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	32	147.0	0.9	0.6	147	143 - 152	32	125.8	1.2	0.9	126	121 - 130
Horiba ABX Pentra 400	17	146.9	1.2	0.8	147	142 - 151	18	126.8	1.1	0.9	127	122 - 131
All Chemistry Instruments	51	146.9	1.1	0.8	147	142 - 151	52	126.3	1.3	1.1	126	122 - 131
VITROS												
VITROS 250,350,400 500,700,750,950	32	153.8	1.9	1.3	154	149 - 158	31	132.7	1.6	1.2	132	128 - 137
All Chemistry Instruments	38	153.8	1.9	1.2	154	149 - 158	37	132.6	1.5	1.2	132	128 - 137

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	220	158.2	4.5	2.9	157	154 - 163
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	160	155 - 164
All Chemistry Instruments	10	159.5	1.7	1.1	160	155 - 164
ISE Diluted						
Beckman AU systems	38	154.4	1.5	1.0	154	150 - 159
Roche Integra	20	155.1	1.6	1.0	155	151 - 160
Siemens Dimension QuickLyte - Xpand/EXL	26	156.8	1.7	1.1	157	152 - 161
All Chemistry Instruments	117	155.2	2.0	1.3	155	151 - 160
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	32	159.3	1.4	0.9	159	155 - 164
Horiba ABX Pentra 400	18	158.3	1.5	1.0	158	154 - 163
All Chemistry Instruments	52	159.0	1.5	0.9	159	154 - 163
VITROS						
VITROS 250,350,400 500,700,750,950	32	166.3	2.2	1.3	166	162 - 171
All Chemistry Instruments	38	166.3	2.1	1.3	166	162 - 171

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	371.6	111.1	29.9	430	149 - 594	12	165.7	35.7	21.6	182	94 - 238
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	268.4	72.9	27.2	304	122 - 415	11	132.4	22.3	16.8	139	87 - 177
<u>Method/Instrument</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	341.8	99.5	29.1	392	142 - 541						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	25	345.4	20.2	5.9	343	276 - 415	26	168.6	33.6	19.9	173	101 - 236
Siemens Healthcare												
Siemens Dimension	14	335.2	9.4	2.8	334	268 - 403	14	141.2	7.9	5.6	143	112 - 170
All Chemistry Instruments	15	335.9	9.5	2.8	335	268 - 404	15	141.3	7.6	5.4	143	113 - 170
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	261.6	31.2	11.9	258	199 - 325	26	137.7	36.6	26.6	143	64 - 211
Siemens Healthcare												
Siemens Dimension	14	237.9	7.7	3.2	238	190 - 286	14	108.1	8.3	7.6	107	86 - 130
All Chemistry Instruments	15	238.8	8.1	3.4	238	191 - 287	15	107.9	8.0	7.4	106	86 - 130
<u>Method/Instrument</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	322.6	25.3	7.9	319	258 - 388						
Siemens Healthcare												
Siemens Dimension	14	306.4	10.3	3.3	305	245 - 368						
All Chemistry Instruments	15	308.1	11.9	3.9	305	246 - 370						

UIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	241.0	13.3	5.5	243	192 - 290	27	114.7	12.3	10.7	116	90 - 140
All Roche Reagents	11	231.0	11.0	4.8	232	184 - 278	11	105.1	7.0	6.6	106	84 - 127
Beckman AU Beckman AU systems	15	249.4	8.3	3.3	248	199 - 300	15	123.2	7.8	6.3	122	98 - 148
	Specimen CH-8						Specimen CH-9					
All Method	27	178.8	13.6	7.6	182	143 - 215	27	92.6	11.6	12.6	92	69 - 116
All Roche Reagents	11	168.6	9.7	5.7	171	134 - 203	11	84.3	6.7	7.9	87	67 - 102
Beckman AU Beckman AU systems	15	187.9	7.8	4.1	188	150 - 226	15	100.0	8.9	8.9	99	80 - 120
	Specimen CH-10											
All Method	27	223.0	15.3	6.8	227	178 - 268						
All Roche Reagents	11	212.2	12.9	6.1	213	169 - 255						
Beckman AU Beckman AU systems	15	232.4	9.6	4.2	230	185 - 279						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	232	216.9	19.6	9.0	217	173 - 261	228	71.6	8.9	12.5	71	57 - 86
All Alfa Wassermann Reagents	30	192.9	5.0	2.6	193	154 - 232	29	59.9	2.5	4.2	60	47 - 72
All Horiba Pentra Reagents	19	250.8	9.5	3.8	248	200 - 301	19	79.4	2.9	3.7	80	63 - 96
All Roche Reagents	28	220.0	6.1	2.8	219	176 - 264	28	69.5	2.1	3.0	69	55 - 84
Abaxis Piccolo												
Abaxis Piccolo - waived	20	199.5	3.8	1.9	200	159 - 240	20	68.4	2.3	3.4	68	54 - 83
All Chemistry Instruments	29	198.3	4.0	2.0	198	158 - 239	27	67.9	2.5	3.7	68	54 - 82
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	193.0	5.0	2.6	193	154 - 232	24	59.8	2.8	4.6	60	47 - 72
Beckman AU												
Beckman AU systems	36	202.8	4.9	2.4	203	162 - 244	35	63.2	1.3	2.0	63	50 - 76
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	229.4	5.9	2.6	230	183 - 276	10	74.5	2.5	3.4	75	59 - 90
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	250.8	9.5	3.8	248	200 - 301	19	79.4	2.9	3.7	80	63 - 96
Roche Integra												
Roche Integra	20	220.7	6.2	2.8	219	176 - 265	20	69.9	2.1	3.0	70	55 - 84
Siemens Healthcare ALTi												
Siemens Dimension	30	238.0	6.3	2.7	237	190 - 286	30	76.4	2.5	3.3	76	61 - 92
All Chemistry Instruments	31	237.6	6.5	2.7	236	190 - 286	31	76.2	2.6	3.4	76	60 - 92
VITROS												
VITROS 250,350,400 500,700,750,950	32	222.4	6.7	3.0	222	177 - 267	32	85.8	4.0	4.6	85	68 - 103
All Chemistry Instruments	38	221.4	7.1	3.2	221	177 - 266	36	85.3	4.1	4.9	85	68 - 103

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	210	146.4	13.8	9.4	149	117 - 176	211	47.7	8.9	18.7	47	38 - 58
All Alfa Wassermann Reagents	29	126.8	3.6	2.9	127	101 - 153	29	38.7	2.1	5.5	39	30 - 47
All Horiba Pentra Reagents	19	166.6	5.8	3.5	165	133 - 200	19	51.2	2.2	4.3	51	40 - 62
All Roche Reagents	28	145.6	4.2	2.9	146	116 - 175	28	44.6	1.6	3.5	44	35 - 54
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	135	117 - 176	3	-	-	-	44	38 - 58
All Chemistry Instruments	9	-	-	-	134	106 - 160	9	-	-	-	46	36 - 56
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	126.8	3.8	3.0	127	101 - 153	24	38.8	2.3	5.8	39	31 - 47
Beckman AU												
Beckman AU systems	36	133.3	3.2	2.4	133	106 - 160	36	40.6	1.2	2.9	40	32 - 49
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	154.7	5.0	3.2	156	123 - 186	10	45.7	8.2	18.0	48	36 - 55
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	166.6	5.8	3.5	165	133 - 200	19	51.2	2.2	4.3	51	40 - 62
Roche Integra												
Roche Integra	20	146.3	4.3	2.9	146	117 - 176	20	44.7	1.7	3.8	44	35 - 54
Siemens Healthcare ALTi												
Siemens Dimension	30	157.9	4.3	2.7	157	126 - 190	30	49.7	1.9	3.7	49	39 - 60
All Chemistry Instruments	31	157.7	4.4	2.8	157	126 - 190	31	49.6	1.9	3.8	49	39 - 60
VITROS												
VITROS 250,350,400 500,700,750,950	32	155.6	5.0	3.2	155	124 - 187	32	63.9	4.5	7.0	64	51 - 77
All Chemistry Instruments	38	154.3	6.3	4.1	155	123 - 186	36	63.3	4.7	7.5	63	50 - 76

ALT (SGPT) (IU/L)**Specimen CH-10**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	213	197.7	17.7	9.0	199	158 - 238
All Alfa Wassermann Reagents	31	173.9	5.3	3.1	175	139 - 209
All Horiba Pentra Reagents	19	227.7	8.9	3.9	226	182 - 274
All Roche Reagents	28	198.5	5.6	2.8	198	158 - 239
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	180	143 - 216
All Chemistry Instruments	11	179.5	3.6	2.0	180	143 - 216
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	174.2	5.4	3.1	175	139 - 210
Beckman AU						
Beckman AU systems	36	182.5	4.4	2.4	182	146 - 220
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	211.1	5.8	2.7	210	168 - 254
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	227.7	8.9	3.9	226	182 - 274
Roche Integra						
Roche Integra	20	199.3	5.8	2.9	198	159 - 240
Siemens Healthcare ALTi						
Siemens Dimension	30	214.6	6.4	3.0	214	171 - 258
All Chemistry Instruments	31	214.2	6.6	3.1	213	171 - 258
VITROS						
VITROS 250,350,400 500,700,750,950	32	203.6	6.0	2.9	203	162 - 245
All Chemistry Instruments	38	202.4	6.8	3.4	202	161 - 243

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	236	269.0	56.0	20.8	287	188 - 350	234	106.3	11.6	11.0	107	74 - 139
All Alfa Wassermann Reagents	31	286.9	15.4	5.4	289	200 - 374	31	107.7	6.3	5.8	108	75 - 141
All Horiba Pentra Reagents	20	327.0	20.0	6.1	323	228 - 426	20	122.4	7.3	5.9	121	85 - 160
All Roche Reagents	28	300.3	9.7	3.2	301	210 - 391	28	111.0	4.2	3.8	111	77 - 145
Abaxis Piccolo												
Abaxis Piccolo - waived	20	220.1	9.1	4.1	222	154 - 287	20	94.6	4.3	4.5	94	66 - 123
All Chemistry Instruments	29	221.3	9.1	4.1	222	154 - 288	27	94.4	4.3	4.5	94	66 - 123
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	287.4	14.6	5.1	289	201 - 374	25	107.9	6.4	5.9	109	75 - 141
Beckman AU												
Beckman AU systems	35	275.8	21.2	7.7	279	193 - 359	35	101.0	7.4	7.4	101	70 - 132
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	277.7	13.0	4.7	282	194 - 362	10	105.9	4.0	3.8	107	74 - 138
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	327.0	20.0	6.1	323	228 - 426	20	122.4	7.3	5.9	121	85 - 160
Roche Integra												
Roche Integra	19	299.8	10.4	3.5	301	209 - 390	19	110.7	4.4	4.0	111	77 - 144
All Chemistry Instruments	20	299.6	10.2	3.4	300	209 - 390	20	110.6	4.3	3.9	111	77 - 144
Siemens Healthcare ALPi												
Siemens Dimension	26	330.2	12.0	3.6	330	231 - 430	26	120.0	5.0	4.2	120	84 - 157
All Chemistry Instruments	27	330.4	11.8	3.6	330	231 - 430	27	120.3	5.0	4.2	120	84 - 157
VITROS												
VITROS 250,350,400 500,700,750,950	32	168.0	10.8	6.4	168	117 - 219	31	95.0	4.3	4.5	95	66 - 124
All Chemistry Instruments	38	170.7	12.6	7.4	169	119 - 222	37	95.5	4.5	4.7	95	66 - 125

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	216	198.2	30.6	15.5	205	138 - 258	214	74.5	7.0	9.4	74	52 - 97
All Alfa Wassermann Reagents	31	204.3	12.2	6.0	205	143 - 266	31	73.9	4.1	5.6	74	51 - 97
All Horiba Pentra Reagents	20	231.4	14.8	6.4	228	161 - 301	20	85.2	5.8	6.8	84	59 - 111
All Roche Reagents	28	211.6	7.1	3.4	212	148 - 276	28	76.1	2.7	3.6	76	53 - 99
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	169	138 - 258	3	-	-	-	68	52 - 97
All Chemistry Instruments	9	-	-	-	168	116 - 217	9	-	-	-	68	46 - 88
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	204.5	12.6	6.2	206	143 - 266	25	73.9	4.2	5.6	75	51 - 97
Beckman AU												
Beckman AU systems	35	193.0	14.7	7.6	192	135 - 251	35	68.9	4.9	7.2	69	48 - 90
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	199.3	8.0	4.0	199	139 - 260	10	74.5	6.2	8.3	75	52 - 97
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	231.4	14.8	6.4	228	161 - 301	20	85.2	5.8	6.8	84	59 - 111
Roche Integra												
Roche Integra	19	210.5	7.6	3.6	213	147 - 274	19	76.0	3.0	3.9	77	53 - 99
All Chemistry Instruments	20	210.4	7.4	3.5	212	147 - 274	20	75.9	2.9	3.8	77	53 - 99
Siemens Healthcare ALPi												
Siemens Dimension	26	231.6	8.2	3.5	231	162 - 302	26	81.7	3.6	4.4	81	57 - 107
All Chemistry Instruments	27	231.9	8.2	3.5	231	162 - 302	27	81.8	3.5	4.3	81	57 - 107
VITROS												
VITROS 250,350,400 500,700,750,950	31	148.4	7.4	5.0	147	103 - 193	31	69.8	3.3	4.7	70	48 - 91
All Chemistry Instruments	38	148.9	9.3	6.3	148	104 - 194	37	70.0	3.2	4.6	71	49 - 92

Alkaline Phosphatase (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	217	252.4	48.0	19.0	266	176 - 329
All Alfa Wassermann Reagents	31	265.4	14.5	5.5	266	185 - 346
All Horiba Pentra Reagents	20	298.7	24.9	8.3	293	209 - 389
All Roche Reagents	28	275.1	9.8	3.6	277	192 - 358
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	205	145 - 271
All Chemistry Instruments	11	208.4	6.1	2.9	207	145 - 271
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	265.8	15.0	5.7	267	186 - 346
Beckman AU						
Beckman AU systems	36	252.5	19.7	7.8	252	176 - 329
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	257.3	12.6	4.9	260	180 - 335
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	298.7	24.9	8.3	293	209 - 389
Roche Integra						
Roche Integra	19	273.8	10.2	3.7	279	191 - 356
All Chemistry Instruments	20	273.6	10.0	3.7	278	191 - 356
Siemens Healthcare ALPi						
Siemens Dimension	26	302.4	10.5	3.5	304	211 - 394
All Chemistry Instruments	27	302.6	10.4	3.4	304	211 - 394
VITROS						
VITROS 250,350,400 500,700,750,950	32	165.0	10.3	6.3	165	115 - 215
All Chemistry Instruments	38	167.4	11.3	6.8	167	117 - 218

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	202	260.3	26.4	10.1	262	208 - 313	199	145.5	10.4	7.2	149	116 - 175
All Alfa Wassermann Reagents	31	240.5	9.0	3.8	242	192 - 289	30	139.7	6.4	4.6	140	111 - 168
All Horiba Pentra Reagents	20	275.5	15.8	5.7	273	220 - 331	19	158.6	4.4	2.8	158	126 - 191
All Roche Reagents	27	262.0	8.6	3.3	263	209 - 315	27	151.3	5.5	3.6	152	121 - 182
Abaxis Piccolo												
Abaxis Piccolo - waived	20	251.6	6.6	2.6	252	201 - 302	20	145.0	3.3	2.2	145	115 - 174
All Chemistry Instruments	29	250.9	6.7	2.7	251	200 - 302	27	145.2	3.1	2.2	145	116 - 175
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	241.0	8.7	3.6	241	192 - 290	24	140.5	5.9	4.2	140	112 - 169
Beckman AU												
Beckman AU systems	36	229.2	6.9	3.0	230	183 - 276	36	130.8	3.8	2.9	131	104 - 157
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	265.7	16.8	6.3	268	212 - 319	10	154.0	8.5	5.5	156	123 - 185
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	275.5	15.8	5.7	273	220 - 331	19	158.6	4.4	2.8	158	126 - 191
Roche Integra												
Roche Integra	19	262.1	8.7	3.3	264	209 - 315	19	151.6	5.9	3.9	152	121 - 182
Siemens Healthcare												
Siemens Dimension	34	275.8	6.4	2.3	276	220 - 331	35	154.4	4.7	3.0	155	123 - 186
All Chemistry Instruments	35	275.7	6.3	2.3	275	220 - 331	36	154.3	4.7	3.1	155	123 - 186
VITROS												
VITROS 250,350,400 500,700,750,950	32	301.9	10.7	3.6	304	241 - 363	32	150.3	6.3	4.2	150	120 - 181
All Chemistry Instruments	38	301.6	11.2	3.7	304	241 - 362	37	151.1	5.2	3.4	150	120 - 182

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	182	204.0	17.4	8.5	210	163 - 245	181	127.9	9.3	7.3	130	102 - 154
All Alfa Wassermann Reagents	31	191.2	7.7	4.0	191	152 - 230	31	123.5	6.0	4.9	123	98 - 149
All Horiba Pentra Reagents	20	220.1	10.5	4.8	219	176 - 265	20	140.1	7.4	5.3	140	112 - 169
All Roche Reagents	27	208.5	7.1	3.4	209	166 - 251	27	133.2	5.1	3.8	133	106 - 160
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	197	163 - 245	3	-	-	-	128	102 - 154
All Chemistry Instruments	9	-	-	-	198	159 - 240	9	-	-	-	128	102 - 154
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	191.5	7.9	4.1	190	153 - 230	25	123.8	6.0	4.9	124	99 - 149
Beckman AU												
Beckman AU systems	36	181.1	5.3	2.9	182	144 - 218	36	115.2	3.5	3.0	116	92 - 139
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	211.9	13.4	6.3	212	169 - 255	10	136.0	9.7	7.1	137	108 - 164
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	220.1	10.5	4.8	219	176 - 265	20	140.1	7.4	5.3	140	112 - 169
Roche Integra												
Roche Integra	19	208.7	7.7	3.7	209	166 - 251	19	133.7	5.3	4.0	133	106 - 161
Siemens Healthcare												
Siemens Dimension	35	216.1	5.9	2.7	214	172 - 260	34	134.4	3.2	2.3	135	107 - 162
All Chemistry Instruments	36	216.0	5.8	2.7	214	172 - 260	35	134.3	3.2	2.4	135	107 - 162
VITROS												
VITROS 250,350,400 500,700,750,950	32	222.1	8.6	3.9	222	177 - 267	32	130.2	5.3	4.1	130	104 - 157
All Chemistry Instruments	38	222.1	8.4	3.8	222	177 - 267	38	130.2	5.2	4.0	130	104 - 157

AST (SGOT) (IU/L)

Specimen CH-10

<u><i>Instrument/Reagent</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	183	245.7	24.1	9.8	250	196 - 295
All Alfa Wassermann Reagents	31	228.4	8.2	3.6	229	182 - 275
All Horiba Pentra Reagents	20	260.8	12.5	4.8	260	208 - 313
All Roche Reagents	27	247.8	9.2	3.7	248	198 - 298
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	234	188 - 284
All Chemistry Instruments	11	236.0	4.8	2.0	234	188 - 284
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	228.4	8.2	3.6	229	182 - 275
Beckman AU						
Beckman AU systems	36	216.1	7.3	3.4	217	172 - 260
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	252.8	15.4	6.1	252	202 - 304
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	260.8	12.5	4.8	260	208 - 313
Roche Integra						
Roche Integra	19	248.0	9.3	3.8	249	198 - 298
Siemens Healthcare						
Siemens Dimension	34	259.2	5.3	2.0	259	207 - 312
All Chemistry Instruments	35	259.1	5.2	2.0	258	207 - 311
VITROS						
VITROS 250,350,400 500,700,750,950	32	279.9	8.7	3.1	281	223 - 336
All Chemistry Instruments	38	279.3	9.2	3.3	281	223 - 336

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	79	134.9	27.2	20.2	144	94 - 176	79	43.9	8.3	18.8	47	30 - 58
All Roche Reagents	12	146.0	3.6	2.4	147	102 - 190	12	48.3	1.3	2.7	49	33 - 63
Beckman AU												
Beckman AU systems	17	120.6	4.8	4.0	119	84 - 157	17	38.6	1.7	4.4	39	27 - 51
Siemens Healthcare												
Siemens Dimension	11	163.6	3.0	1.9	164	114 - 213	11	52.3	2.6	4.9	52	36 - 68
VITROS												
VITROS 250,350,400 500,700,750,950	13	92.8	6.7	7.2	94	64 - 121	13	32.5	3.6	11.0	30	22 - 43
All Chemistry Instruments	16	93.1	6.9	7.4	94	65 - 122	16	32.0	3.3	10.5	30	22 - 42

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	89.5	17.6	19.7	97	62 - 117	73	30.3	3.2	10.7	30	21 - 40
All Roche Reagents	12	97.4	2.4	2.5	98	68 - 127	12	32.3	1.1	3.3	33	22 - 43
Beckman AU												
Beckman AU systems	17	79.9	3.3	4.1	80	55 - 104	15	24.9	1.0	4.0	25	17 - 33
Siemens Healthcare												
Siemens Dimension	11	108.4	2.0	1.9	109	75 - 141	11	33.0	0.9	2.7	33	23 - 43
VITROS												
VITROS 250,350,400 500,700,750,950	13	60.2	9.9	16.5	62	42 - 79	13	30.0	0.1	0.0	30	21 - 39
All Chemistry Instruments	15	62.8	4.9	7.9	63	43 - 82	16	30.0	0.1	0.0	30	21 - 39

<u>Instrument/Reagent</u>	Specimen CH-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	75	121.3	24.3	20.1	130	84 - 158
All Roche Reagents	12	131.7	2.7	2.1	132	92 - 172
Beckman AU						
Beckman AU systems	17	108.7	4.6	4.3	109	76 - 142
Siemens Healthcare						
Siemens Dimension	11	148.5	2.5	1.7	149	103 - 193
VITROS						
VITROS 250,350,400 500,700,750,950	13	85.2	6.7	7.9	83	59 - 111
All Chemistry Instruments	16	85.3	6.5	7.7	83	59 - 111

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</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	61	614.1	62.5	10.2	643	491 - 737	61	265.8	28.0	10.5	282	212 - 319
All Horiba Pentra Reagents	6	654.2	36.9	5.6	648	523 - 786	6	280.7	19.4	6.9	280	224 - 337
All Roche Reagents	19	657.7	13.5	2.1	657	526 - 790	19	288.2	5.7	2.0	287	230 - 346
Beckman AU												
Beckman AU systems	12	550.1	31.2	5.7	543	440 - 661	12	235.1	11.6	4.9	231	188 - 283
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	654.2	36.9	5.6	648	523 - 786	10	280.7	19.4	6.9	280	224 - 337
Roche cobas c 501												
Roche cobas 6000 / c 501	10	667.2	9.5	1.4	671	533 - 801	10	288.0	6.3	2.2	289	230 - 346
Roche Integra												
Roche Integra	12	652.8	13.5	2.1	650	522 - 784	12	288.3	6.0	2.1	286	230 - 346
Siemens Healthcare LDI												
Siemens Dimension	11	629.6	12.0	1.9	628	503 - 756	11	266.4	10.8	4.0	270	213 - 320
VITROS												
VITROS 250,350,400 500,700,750,950	6	1997.2	64.3	3.2	2025	1597 - 2397	6	844.0	22.3	2.6	848	675 - 1013
VITROS 5600	4	1844.3	52.8	2.9	1864	1475 - 2214	4	849.5	11.0	1.3	849	679 - 1020
All Chemistry Instruments	10	1936.0	97.3	5.0	1918	1548 - 2324	10	846.2	18.0	2.1	848	676 - 1016

Lactate Dehydrogenase (IU/L)

	Specimen CH-8						Specimen CH-9					
All Method	61	443.4	45.3	10.2	469	354 - 533	61	207.0	22.0	10.6	220	165 - 249
All Horiba Pentra Reagents	6	471.7	31.2	6.6	468	377 - 567	6	221.3	16.3	7.4	221	177 - 266
All Roche Reagents	19	476.7	7.9	1.7	475	381 - 573	19	224.1	4.4	2.0	223	179 - 269
Beckman AU												
Beckman AU systems	12	394.9	18.3	4.6	391	315 - 474	12	181.6	8.8	4.9	180	145 - 218
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	471.7	31.2	6.6	468	377 - 567	10	221.3	16.3	7.4	221	177 - 266
Roche cobas c 501												
Roche cobas 6000 / c 501	10	479.3	4.1	0.9	481	383 - 576	10	223.7	2.3	1.0	224	178 - 269
Roche Integra												
Roche Integra	12	475.3	9.3	2.0	474	380 - 571	12	224.3	5.3	2.4	223	179 - 270
Siemens Healthcare LDI												
Siemens Dimension	11	449.0	12.7	2.8	452	359 - 539	11	208.4	2.8	1.3	209	166 - 251
VITROS												
VITROS 250,350,400 500,700,750,950	6	1397.0	53.0	3.8	1415	1117 - 1677	6	664.5	20.2	3.0	669	531 - 798
VITROS 5600	4	1380.8	26.1	1.9	1378	1104 - 1657	4	665.3	4.8	0.7	667	532 - 799
All Chemistry Instruments	10	1390.5	43.1	3.1	1397	1112 - 1669	10	664.8	15.3	2.3	667	531 - 798

Specimen CH-10

All Method	61	566.2	59.5	10.5	597	452 - 680
All Horiba Pentra Reagents	6	613.0	39.4	6.4	608	490 - 736
All Roche Reagents	19	605.4	11.9	2.0	607	484 - 727
Beckman AU						
Beckman AU systems	12	502.8	24.6	4.9	498	402 - 604
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	613.0	39.4	6.4	608	490 - 736
Roche cobas c 501						
Roche cobas 6000 / c 501	10	611.3	2.4	0.4	613	489 - 734
Roche Integra						
Roche Integra	12	602.0	14.0	2.3	597	481 - 723
Siemens Healthcare LDI						
Siemens Dimension	11	581.4	13.0	2.2	583	465 - 698
VITROS						
VITROS 250,350,400 500,700,750,950	6	1831.8	48.6	2.7	1840	1465 - 2199
VITROS 5600	4	1702.5	44.3	2.6	1712	1362 - 2043
All Chemistry Instruments	10	1780.1	80.2	4.5	1778	1424 - 2137

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	261.70	16.37	6.3	261.4	212.5 - 310.9	5	69.10	6.84	9.9	70.6	48.5 - 89.7
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	169.03	14.33	8.5	171.2	126.0 - 212.1	5	37.73	4.19	11.1	39.0	25.1 - 50.3
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	236.63	15.83	6.7	239.5	189.1 - 284.2						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	26.58	2.28	8.6	26.8	19.9 - 33.3	10	10.75	1.19	11.0	10.6	8.0 - 13.5
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	19.12	1.49	7.8	19.3	14.3 - 23.9	10	7.56	0.62	8.2	7.4	5.6 - 9.5
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	24.62	1.96	8.0	25.0	18.4 - 30.8						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	44.11	3.03	6.9	43.3	35.0 - 53.3	15	50.92	4.83	9.5	49.9	36.4 - 65.5
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	47.08	3.97	8.4	46.0	35.1 - 59.1	15	51.43	5.65	11.0	51.0	34.4 - 68.4
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	45.25	3.45	7.6	44.0	34.9 - 55.6						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	47	2.21	0.49	22.3	2.5	0.7 - 3.7	47	1.59	0.28	17.6	1.6	0.7 - 2.5
All Abbott Instruments	11	1.64	0.05	3.3	1.6	1.4 - 1.9	11	1.48	0.04	3.0	1.5	1.3 - 1.7
All TOSOH Instruments	12	5.61	0.42	7.5	5.7	4.3 - 6.9	12	3.73	0.14	3.7	3.7	3.3 - 4.2
Abbott Architect	10	1.64	0.05	3.3	1.6	1.4 - 1.9	10	1.48	0.04	3.0	1.5	1.3 - 1.7
Beckman ACCESS / 2 / Dxl	13	2.45	0.23	9.5	2.4	1.7 - 3.2	13	1.60	0.15	9.2	1.6	1.1 - 2.1
TOSOH ST AIA PACK	10	5.70	0.48	8.5	5.8	4.2 - 7.2	10	3.78	0.13	3.4	3.8	3.3 - 4.2
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	47	1.92	0.35	18.4	2.1	0.8 - 3.0	47	1.46	0.29	19.8	1.5	0.5 - 2.4
All Abbott Instruments	11	1.54	0.05	3.6	1.5	1.3 - 1.8	11	1.36	0.05	4.0	1.4	1.1 - 1.6
All TOSOH Instruments	12	4.78	0.25	5.3	4.7	4.0 - 5.6	12	3.20	0.14	4.4	3.2	2.7 - 3.7
Abbott Architect	10	1.54	0.05	3.6	1.5	1.3 - 1.8	10	1.36	0.05	4.0	1.4	1.1 - 1.6
Beckman ACCESS / 2 / Dxl	13	2.03	0.14	7.1	2.1	1.5 - 2.5	13	1.45	0.11	7.2	1.5	1.1 - 1.8
TOSOH ST AIA	10	4.90	0.24	5.0	5.0	4.1 - 5.7	10	3.22	0.16	5.1	3.3	2.7 - 3.8
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	47	2.15	0.46	21.5	2.4	0.7 - 3.6						
All Abbott Instruments	11	1.60	0.07	4.4	1.6	1.3 - 1.9						
All TOSOH Instruments	12	5.30	0.32	6.0	5.3	4.3 - 6.3						
Abbott Architect	10	1.60	0.07	4.4	1.6	1.3 - 1.9						
Beckman ACCESS / 2 / Dxl	13	2.35	0.19	8.1	2.3	1.7 - 3.0						
TOSOH ST AIA	10	5.42	0.33	6.2	5.5	4.4 - 6.5						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	6.11	1.12	18.4	5.9	2.7 - 9.5	34	5.20	0.82	15.7	5.5	2.7 - 7.7
All Roche Instruments	11	8.12	0.26	3.2	8.1	7.3 - 8.9	11	5.70	0.23	4.1	5.6	4.9 - 6.5
All TOSOH Instruments	12	13.45	1.31	9.7	13.6	9.5 - 17.4	12	10.27	1.08	10.6	10.5	7.0 - 13.6
Beckman ACCESS / 2 / Dxl	16	5.53	0.42	7.5	5.5	4.2 - 6.8	16	4.71	0.30	6.4	4.7	3.7 - 5.7
TOSOH ST AIA PACK	10	13.03	1.19	9.1	13.5	9.4 - 16.7	10	9.90	1.11	11.2	9.8	6.5 - 13.3
Specimen CH-8												
All Method	34	5.78	0.98	17.0	5.8	2.8 - 8.8	34	4.64	0.74	16.0	4.8	2.4 - 6.9
All Abbott Instruments	11	7.20	0.20	2.8	7.1	6.6 - 7.8	11	4.80	0.36	7.5	4.8	3.7 - 5.9
All TOSOH Instruments	12	11.99	1.02	8.5	12.3	8.9 - 15.1	12	8.93	1.03	11.6	9.1	5.8 - 12.1
Beckman ACCESS / 2 / Dxl	16	5.25	0.35	6.7	5.3	4.1 - 6.4	16	4.25	0.31	7.2	4.3	3.3 - 5.2
TOSOH ST AIA	10	11.67	1.06	9.1	12.1	8.4 - 14.9	10	8.53	0.97	11.4	8.8	5.6 - 11.5
Specimen CH-10												
All Method	34	6.02	1.08	18.0	5.8	2.7 - 9.3						
All Abbott Instruments	11	7.92	0.44	5.6	7.9	6.5 - 9.3						
All TOSOH Instruments	12	13.10	1.01	7.7	13.2	10.0 - 16.2						
Beckman ACCESS / 2 / Dxl	16	5.44	0.36	6.5	5.5	4.3 - 6.6						
TOSOH ST AIA	10	12.73	0.91	7.2	12.9	9.9 - 15.5						

Thyroxine (µg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	15.76	1.58	10.0	15.7	12.6 - 19.0	20	9.70	0.85	8.8	10.2	7.7 - 11.7
Beckman ACCESS / 2 / Dxl	11	15.07	0.92	6.1	15.3	12.0 - 18.1	12	11.10	0.63	5.7	11.1	8.8 - 13.4
Specimen CH-8												
All Method	20	12.85	0.94	7.3	13.3	10.2 - 15.5	20	8.51	0.78	9.1	8.9	6.8 - 10.3
Beckman ACCESS / 2 / Dxl	12	13.38	0.60	4.5	13.6	10.7 - 16.1	12	10.06	0.72	7.2	10.3	8.0 - 12.1
Specimen CH-10												
All Method	20	14.70	1.53	10.4	14.7	11.7 - 17.7						
Beckman ACCESS / 2 / Dxl	12	14.55	0.83	5.7	14.6	11.6 - 17.5						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	146	3.66	0.75	20.5	3.9	1.4 - 6.0	146	3.90	0.72	18.4	4.0	1.7 - 6.1
All TOSOH Instruments	34	4.48	0.29	6.4	4.5	3.6 - 5.4	33	4.65	0.28	6.0	4.7	3.8 - 5.5
Abbott Architect	12	4.15	0.21	5.1	4.2	3.5 - 4.8	12	3.49	0.25	7.3	3.5	2.7 - 4.3
Beckman ACCESS / 2 / Dxl	51	2.81	0.11	4.0	2.8	2.4 - 3.2	52	3.21	0.15	4.7	3.2	2.7 - 3.7
Siemens Dimension	21	4.16	0.21	5.0	4.2	3.5 - 4.8	21	4.58	0.34	7.3	4.6	3.5 - 5.6
TOSOH AIA PACK	16	4.48	0.30	6.8	4.5	3.5 - 5.4	16	4.71	0.40	8.6	4.7	3.4 - 6.0
TOSOH ST AIA PACK	18	4.47	0.28	6.3	4.5	3.6 - 5.4	18	4.67	0.28	5.9	4.8	3.8 - 5.5

<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	146	3.70	0.73	19.8	3.8	1.4 - 6.0	146	4.04	0.74	18.2	4.0	1.8 - 6.3
All TOSOH Instruments	34	4.53	0.30	6.6	4.5	3.6 - 5.5	34	4.82	0.33	6.9	4.8	3.8 - 5.9
Abbott Architect	12	3.80	0.22	5.8	3.8	3.1 - 4.5	12	3.38	0.18	5.4	3.4	2.8 - 4.0
Beckman ACCESS / 2 / Dxl	52	2.89	0.13	4.6	2.9	2.4 - 3.3	52	3.40	0.17	5.1	3.4	2.8 - 4.0
Siemens Dimension	21	4.31	0.23	5.2	4.3	3.6 - 5.0	21	4.79	0.37	7.7	4.9	3.6 - 5.9
TOSOH AIA PACK	16	4.51	0.35	7.9	4.4	3.4 - 5.6	16	4.88	0.39	8.0	4.9	3.6 - 6.1
TOSOH ST AIA PACK	18	4.55	0.25	5.5	4.6	3.7 - 5.4	18	4.78	0.28	5.8	4.8	3.9 - 5.7

<u>Method</u>	Specimen CH-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	150	3.80	0.98	25.8	4.0	0.8 - 6.8
All TOSOH Instruments	33	4.47	0.30	6.7	4.5	3.5 - 5.4
Abbott Architect	12	4.06	0.30	7.3	4.1	3.1 - 5.0
Beckman ACCESS / 2 / Dxl	50	2.82	0.11	4.0	2.8	2.4 - 3.2
Siemens Dimension	20	4.19	0.18	4.3	4.2	3.6 - 4.8
TOSOH AIA PACK	15	4.49	0.33	7.3	4.4	3.5 - 5.5
TOSOH ST AIA PACK	18	4.46	0.28	6.3	4.5	3.6 - 5.3

TSH (μU/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	185	6.12	0.76	12.4	6.0	3.8 - 8.4	185	1.93	0.26	13.4	1.8	1.1 - 2.8
All Abbott Instruments	13	5.53	0.20	3.6	5.6	4.9 - 6.2	13	1.72	0.09	5.2	1.7	1.4 - 2.0
All Roche Instruments	11	5.69	0.32	5.7	5.7	4.7 - 6.7	10	2.01	0.10	4.9	2.0	1.7 - 2.4
All TOSOH Instruments	45	7.03	0.48	6.8	7.0	5.6 - 8.5	45	2.24	0.12	5.3	2.3	1.8 - 2.6
Abbott Architect	13	5.53	0.20	3.6	5.6	4.9 - 6.2	13	1.72	0.09	5.2	1.7	1.4 - 2.0
Beckman ACCESS / 2 / Dxl	61	5.75	0.41	7.1	5.7	4.5 - 7.0	61	1.78	0.09	5.2	1.8	1.4 - 2.1
Siemens Dimension	26	5.57	0.41	7.3	5.6	4.3 - 6.8	26	1.76	0.12	6.6	1.7	1.4 - 2.2
TOSOH AIA PACK	20	6.89	0.35	5.0	6.9	5.8 - 8.0	21	2.21	0.12	5.6	2.3	1.8 - 2.6
TOSOH ST AIA PACK	25	7.16	0.60	8.3	7.0	5.3 - 9.0	24	2.27	0.11	4.8	2.3	1.9 - 2.6

<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	186	4.12	0.51	12.4	4.0	2.5 - 5.7	185	1.17	0.18	15.0	1.1	0.6 - 1.8
All Abbott Instruments	13	3.71	0.13	3.4	3.7	3.3 - 4.1	12	1.05	0.05	5.0	1.1	0.8 - 1.3
All Roche Instruments	11	4.03	0.21	5.1	4.1	3.4 - 4.7	11	1.26	0.05	4.0	1.3	1.1 - 1.5
All TOSOH Instruments	44	4.75	0.27	5.7	4.8	3.9 - 5.6	45	1.38	0.11	7.8	1.4	1.0 - 1.8
Abbott Architect	13	3.71	0.13	3.4	3.7	3.3 - 4.1	12	1.05	0.05	5.0	1.1	0.8 - 1.3
Beckman ACCESS / 2 / Dxl	61	3.84	0.21	5.6	3.8	3.1 - 4.5	62	1.07	0.08	7.3	1.1	0.8 - 1.4
Siemens Dimension	26	3.74	0.26	7.0	3.7	2.9 - 4.6	26	1.06	0.09	8.1	1.1	0.8 - 1.4
TOSOH AIA PACK	21	4.67	0.36	7.7	4.8	3.5 - 5.8	21	1.34	0.09	6.9	1.4	1.0 - 1.7
TOSOH ST AIA PACK	24	4.78	0.28	5.8	4.8	3.9 - 5.7	24	1.42	0.11	7.7	1.4	1.0 - 1.8

<u>Method</u>	Specimen CH-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	183	5.54	0.64	11.6	5.4	3.6 - 7.5
All Abbott Instruments	13	5.04	0.16	3.2	5.1	4.5 - 5.6
All Roche Instruments	10	5.28	0.32	6.0	5.4	4.3 - 6.3
All TOSOH Instruments	44	6.28	0.28	4.4	6.3	5.4 - 7.2
Abbott Architect	13	5.04	0.16	3.2	5.1	4.5 - 5.6
Beckman ACCESS / 2 / Dxl	61	5.20	0.36	6.9	5.2	4.1 - 6.3
Siemens Dimension	26	5.15	0.48	9.2	5.1	3.7 - 6.6
TOSOH AIA PACK	21	6.21	0.39	6.2	6.2	5.0 - 7.4
TOSOH ST AIA PACK	23	6.24	0.21	3.3	6.3	5.6 - 6.9

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-6		Specimen HCG-7	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	142	142	-
AimStep Combo Pregnancy	-	1	1	-
Alere hCG Cassette	-	1	1	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 20 hCG	-	66	66	-
Beckman Coulter ICON 25 hCG	-	4	4	-
BTNX Rapid Response hCG	-	2	2	-
Cardinal Health SP Brand combo	-	10	10	-
CONSULT diagnostics hCG Combo	-	11	11	-
Henry Schein One Step + Combo	-	5	5	-
i-STAT - moderate	-	1	1	-
McKesson hCG Combo Cassette	-	1	1	-
Medline hCG Combo Test Cassette	-	2	2	-
NDC Pro Advantage	-	1	1	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	7	7	-
Quidel QuickVue One-Step Combo	-	17	17	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	3	3	-
TOSOH ST AIA PACK	-	1	1	-

Serum hCG – Qualitative

	Specimen HCG-8		Specimen HCG-9	
ALL METHODS	141	1	-	142
AimStep Combo Pregnancy	1	-	-	1
Alere hCG Cassette	1	-	-	1
Beckman ACCESS / 2 / Dxl	1	-	-	1
Beckman Coulter ICON 20 hCG	66	-	-	66
Beckman Coulter ICON 25 hCG	4	-	-	4
BTNX Rapid Response hCG	2	-	-	2
Cardinal Health SP Brand combo	9	1	-	10
CONSULT diagnostics hCG Combo	11	-	-	11
Henry Schein One Step + Combo	5	-	-	5
i-STAT - moderate	1	-	-	1
McKesson hCG Combo Cassette	1	-	-	1
Medline hCG Combo Test Cassette	2	-	-	2
NDC Pro Advantage	1	-	-	1
PSS Select hCG Combo	2	-	-	2
Quidel QuickVue + One-Step	7	-	-	7
Quidel QuickVue One-Step Combo	17	-	-	17
Quidel QuickVue Semi-Q hCG	1	-	-	1
Sekisui OSOM hCG Combo Test	2	-	-	2
Stanbio QUPID Plus	3	-	-	3
TOSOH ST AIA PACK	1	-	-	1

Serum hCG – Qualitative

Specimen HCG-10

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	142	-
AimStep Combo Pregnancy	1	-
Alere hCG Cassette	1	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 20 hCG	66	-
Beckman Coulter ICON 25 hCG	4	-
BTNX Rapid Response hCG	2	-
Cardinal Health SP Brand combo	10	-
CONSULT diagnostics hCG Combo	11	-
Henry Schein One Step + Combo	5	-
i-STAT - moderate	1	-
McKesson hCG Combo Cassette	1	-
Medline hCG Combo Test Cassette	2	-
NDC Pro Advantage	1	-
PSS Select hCG Combo	2	-
Quidel QuickVue + One-Step	7	-
Quidel QuickVue One-Step Combo	17	-
Quidel QuickVue Semi-Q hCG	1	-
Sekisui OSOM hCG Combo Test	2	-
Stanbio QUPID Plus	3	-
TOSOH ST AIA PACK	1	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-6						Specimen HCG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	1.7	1.7	101.3	1	0 - 7	21	1157.2	171.3	14.8	1142	643 - 1672
<u>Method</u>	Specimen HCG-8						Specimen HCG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	244.9	38.6	15.7	246	129 - 361	23	1.6	1.7	102.6	1	0 - 7
<u>Method</u>	Specimen HCG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	22	3183.7	867.7	27.3	3291	580 - 5787						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	218	203.9	7.8	3.8	204	183 - 225	217	95.1	5.0	5.2	95	85 - 105
All Alfa Wassermann Reagents	30	207.3	6.1	2.9	209	186 - 228	30	98.2	3.0	3.1	99	88 - 109
All Horiba Pentra Reagents	14	205.6	6.8	3.3	204	185 - 227	14	95.6	3.0	3.1	96	86 - 106
All Roche Reagents	17	203.6	5.3	2.6	203	183 - 225	17	95.4	2.9	3.1	96	85 - 105
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	211.8	9.2	4.4	212	190 - 233	34	100.0	0.2	0.2	100	90 - 111
All Chemistry Instruments	36	211.6	9.2	4.3	212	190 - 233	35	100.0	0.2	0.2	100	90 - 111
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	207.3	6.2	3.0	209	186 - 229	29	98.2	3.1	3.1	99	88 - 108
Beckman AU												
Beckman AU systems	31	201.5	3.1	1.6	202	181 - 222	31	93.0	1.6	1.8	93	83 - 103
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	207.1	6.7	3.2	205	186 - 228	10	98.6	6.2	6.3	99	88 - 109
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	205.6	6.8	3.3	204	185 - 227	14	95.6	3.0	3.1	96	86 - 106
Roche Integra												
Roche Integra	11	202.5	5.8	2.9	202	182 - 223	11	94.7	2.9	3.0	95	85 - 105
Siemens Healthcare												
Siemens Dimension	29	202.0	4.1	2.0	202	181 - 223	29	93.2	2.3	2.5	93	83 - 103
All Chemistry Instruments	31	201.4	4.5	2.2	201	181 - 222	31	92.8	2.7	2.9	93	83 - 103
VITROS												
VITROS 250,350,400 500,700,750,950	25	194.9	7.7	4.0	194	175 - 215	25	85.2	4.1	4.8	85	76 - 94
All Chemistry Instruments	29	195.7	7.5	3.8	197	176 - 216	28	85.9	3.3	3.9	86	77 - 95

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	179	148.9	5.1	3.4	148	133 - 164	174	75.4	5.8	7.7	76	67 - 83
All Alfa Wassermann Reagents	30	153.2	4.8	3.1	154	137 - 169	30	80.4	2.2	2.7	81	72 - 89
All Horiba Pentra Reagents	14	150.5	5.5	3.7	149	135 - 166	14	78.0	2.9	3.8	78	70 - 86
All Roche Reagents	17	150.1	3.5	2.3	150	135 - 166	17	77.5	2.7	3.5	77	69 - 86
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	-	-	-	156	142 - 174	4	-	-	-	100	90 - 110
All Chemistry Instruments	6	-	-	-	154	140 - 172	5	-	-	-	100	90 - 110
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	29	153.2	4.9	3.2	154	137 - 169	29	80.4	2.2	2.8	81	72 - 89
Beckman AU												
Beckman AU systems	31	147.6	2.3	1.6	148	132 - 163	31	75.1	1.4	1.9	75	67 - 83
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	151.8	6.3	4.1	153	136 - 167	9	-	-	-	77	71 - 88
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	150.5	5.5	3.7	149	135 - 166	14	78.0	2.9	3.8	78	70 - 86
Roche Integra												
Roche Integra	11	149.6	3.7	2.5	150	134 - 165	11	77.0	2.2	2.9	77	69 - 85
Siemens Healthcare												
Siemens Dimension	29	147.6	3.4	2.3	146	132 - 163	29	75.5	2.2	2.9	75	67 - 84
All Chemistry Instruments	31	147.4	3.5	2.4	146	132 - 163	31	75.3	2.5	3.3	75	67 - 83
VITROS												
VITROS 250,350,400 500,700,750,950	25	143.6	5.7	3.9	144	129 - 158	24	64.0	3.4	5.3	64	57 - 71
All Chemistry Instruments	29	143.8	5.4	3.7	144	129 - 159	28	64.4	3.7	5.8	64	57 - 71

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	180	187.4	6.3	3.3	187	168 - 207
All Alfa Wassermann Reagents	30	190.7	6.3	3.3	191	171 - 210
All Horiba Pentra Reagents	14	189.6	5.9	3.1	189	170 - 209
All Roche Reagents	17	187.9	4.1	2.2	188	169 - 207
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	-	-	-	202	182 - 223
All Chemistry Instruments	6	-	-	-	199	180 - 221
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	190.7	6.4	3.3	191	171 - 210
Beckman AU						
Beckman AU systems	31	186.0	3.2	1.7	186	167 - 205
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	191.5	8.4	4.4	193	172 - 211
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	189.6	5.9	3.1	189	170 - 209
Roche Integra						
Roche Integra	11	187.4	4.2	2.2	188	168 - 207
Siemens Healthcare						
Siemens Dimension	29	185.7	4.2	2.3	186	167 - 205
All Chemistry Instruments	31	185.1	4.7	2.6	185	166 - 204
VITROS						
VITROS 250,350,400 500,700,750,950	25	182.3	6.7	3.7	184	164 - 201
All Chemistry Instruments	29	182.9	6.5	3.6	184	164 - 202

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	211	94.6	10.4	11.0	98	66 - 124	210	40.7	5.0	12.4	40	28 - 53
All Dex-Sulfate 50,000 MW Methods	39	100.0	1.3	1.3	100	70 - 130	42	37.6	3.4	9.2	37	26 - 49
All Direct Methods	121	93.4	12.0	12.8	90	65 - 122	120	41.7	5.7	13.6	40	29 - 55
Alere Cholestech LDX												
Alere Cholestech LDX - waived	31	100.0	0.1	0.0	100	70 - 130	32	36.2	2.5	6.9	36	25 - 48
All Chemistry Instruments	32	100.0	0.1	0.0	100	70 - 130	33	36.5	2.8	7.7	36	25 - 48
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	15	83.3	6.4	7.6	84	58 - 109	15	39.5	3.3	8.3	40	27 - 52
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	82.1	4.8	5.8	82	57 - 107	11	39.5	1.4	3.6	39	27 - 52
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	87.7	3.9	4.4	88	61 - 115	23	38.3	2.2	5.7	39	26 - 50
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	80.0	3.4	4.3	79	56 - 104	14	35.4	1.8	5.0	36	24 - 46
Roche HDL Direct												
All Chemistry Instruments	13	105.0	5.3	5.0	104	73 - 137	13	46.4	2.9	6.2	46	32 - 61
Siemens Automated HDL												
Siemens Dimension	25	104.1	2.4	2.3	104	72 - 136	25	48.9	1.2	2.4	49	34 - 64
All Chemistry Instruments	27	103.6	2.8	2.7	104	72 - 135	27	48.8	1.2	2.4	49	34 - 64
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	19	98.6	5.1	5.1	100	69 - 129	19	42.2	2.1	5.0	42	29 - 55
All Chemistry Instruments	20	98.8	5.0	5.1	100	69 - 129	20	42.2	2.1	4.9	43	29 - 55

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-8</u>						<u>Specimen CH-9</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	179	67.5	7.9	11.7	66	47 - 88	178	33.3	4.1	12.4	33	23 - 44
All Dex-Sulfate 50,000 MW Methods	15	70.9	4.2	5.9	70	49 - 93	15	31.5	3.4	10.8	32	22 - 41
All Direct Methods	116	67.5	8.6	12.8	65	47 - 88	116	33.7	4.8	14.3	33	23 - 44
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	-	-	-	69	49 - 93	5	-	-	-	28	22 - 41
All Chemistry Instruments	6	-	-	-	72	50 - 94	6	-	-	-	29	19 - 38
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	15	61.6	4.4	7.2	61	43 - 81	15	32.7	2.4	7.4	33	22 - 43
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	59.9	3.9	6.6	61	41 - 78	11	32.8	1.6	4.9	33	22 - 43
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	62.8	3.0	4.8	63	43 - 82	23	31.0	1.7	5.4	31	21 - 41
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	58.6	4.3	7.3	58	40 - 77	14	28.3	1.3	4.5	28	19 - 37
Roche HDL Direct												
All Chemistry Instruments	14	77.7	7.7	10.0	75	54 - 102	14	37.4	3.6	9.7	36	26 - 49
Siemens Automated HDL												
Siemens Dimension	25	77.8	1.7	2.2	77	54 - 102	25	39.8	1.0	2.5	40	27 - 52
All Chemistry Instruments	27	77.5	1.9	2.5	77	54 - 101	27	39.7	1.0	2.6	40	27 - 52
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	19	69.7	4.3	6.2	69	48 - 91	19	33.8	1.7	5.1	34	23 - 44
All Chemistry Instruments	20	69.8	4.2	6.0	70	48 - 91	20	33.9	1.7	5.1	34	23 - 45

Cholesterol, HDL (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	177	86.5	10.0	11.5	85	60 - 113
All Dex-Sulfate 50,000 MW Methods	13	94.2	5.5	5.8	95	65 - 123
All Direct Methods	116	85.9	10.4	12.1	84	60 - 112
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	100	65 - 123
All Chemistry Instruments	4	-	-	-	100	68 - 128
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	15	77.7	5.6	7.2	78	54 - 101
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	74.4	4.0	5.3	74	52 - 97
Beckman AU Direct HDL / LDL						
Beckman AU systems	23	80.9	3.3	4.1	81	56 - 106
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	74.0	3.2	4.3	74	51 - 97
Roche HDL Direct						
All Chemistry Instruments	13	96.5	5.4	5.6	95	67 - 126
Siemens Automated HDL						
Siemens Dimension	25	96.6	2.3	2.4	97	67 - 126
All Chemistry Instruments	27	96.3	2.4	2.5	96	67 - 126
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	19	92.1	4.4	4.8	91	64 - 120
All Chemistry Instruments	20	92.3	4.4	4.7	91	64 - 120

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	213	203.2	10.7	5.2	202	152 - 255	212	119.9	6.2	5.2	121	89 - 150
All Alfa Wassermann Reagents	29	201.7	5.5	2.7	202	151 - 253	29	122.8	3.3	2.7	123	92 - 154
All Horiba Pentra Reagents	14	202.0	4.3	2.1	203	151 - 253	14	122.6	7.6	6.2	121	91 - 154
All Roche Reagents	17	200.8	5.1	2.5	201	150 - 252	16	121.8	3.0	2.5	121	91 - 153
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	205.1	8.0	3.9	207	153 - 257	33	121.2	5.2	4.3	120	90 - 152
All Chemistry Instruments	34	204.9	7.9	3.9	206	153 - 257	34	121.0	5.1	4.3	120	90 - 152
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	201.6	5.6	2.8	202	151 - 253	28	122.6	3.3	2.7	123	91 - 154
Beckman AU												
Beckman AU systems	31	200.3	6.3	3.2	201	150 - 251	31	119.2	3.7	3.1	119	89 - 149
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	197.7	5.6	2.8	198	148 - 248	10	119.4	4.8	4.0	119	89 - 150
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	202.0	4.3	2.1	203	151 - 253	14	122.6	7.6	6.2	121	91 - 154
Roche Integra												
Roche Integra	11	199.1	4.8	2.4	200	149 - 249	11	121.9	3.5	2.9	122	91 - 153
Siemens Healthcare												
Siemens Dimension	29	191.2	2.6	1.4	191	143 - 240	29	109.7	2.2	2.0	109	82 - 138
All Chemistry Instruments	29	191.2	2.6	1.4	191	143 - 240	29	109.7	2.2	2.0	109	82 - 138
VITROS												
VITROS 250,350,400 500,700,750,950	25	220.4	6.2	2.8	222	165 - 276	25	123.8	4.1	3.3	124	92 - 155
All Chemistry Instruments	29	221.2	6.3	2.9	222	165 - 277	29	124.0	3.9	3.1	125	93 - 155

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	182	162.2	8.2	5.0	163	121 - 203	182	105.9	6.0	5.6	107	79 - 133
All Alfa Wassermann Reagents	28	164.6	3.6	2.2	165	123 - 206	29	110.3	2.6	2.4	110	82 - 138
All Horiba Pentra Reagents	14	162.6	3.9	2.4	163	121 - 204	14	107.6	3.5	3.3	107	80 - 135
All Roche Reagents	17	162.6	3.5	2.2	162	121 - 204	17	108.7	2.7	2.5	108	81 - 136
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	-	-	-	167	124 - 207	5	-	-	-	110	82 - 138
All Chemistry Instruments	6	-	-	-	164	123 - 206	6	-	-	-	109	81 - 137
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	164.5	3.7	2.3	165	123 - 206	28	110.3	2.7	2.4	110	82 - 138
Beckman AU												
Beckman AU systems	31	160.4	5.4	3.3	161	120 - 201	31	105.5	3.2	3.0	105	79 - 132
ELITechGroup Envoy 500												
ELITechGroup Envoy 500	10	159.8	3.9	2.5	159	119 - 200	10	106.2	5.0	4.7	105	79 - 133
Horiba ABX Pentra												
Horiba ABX Pentra 400	14	162.6	3.9	2.4	163	121 - 204	14	107.6	3.5	3.3	107	80 - 135
Roche Integra												
Roche Integra	11	162.1	3.5	2.2	161	121 - 203	11	108.6	2.5	2.3	109	81 - 136
Siemens Healthcare												
Siemens Dimension	29	151.6	2.7	1.8	151	113 - 190	29	96.0	2.3	2.4	96	72 - 120
All Chemistry Instruments	29	151.6	2.7	1.8	151	113 - 190	31	96.7	3.6	3.7	96	72 - 121
VITROS												
VITROS 250,350,400 500,700,750,950	25	172.5	4.6	2.7	174	129 - 216	25	109.7	3.9	3.5	110	82 - 138
All Chemistry Instruments	29	172.9	4.5	2.6	174	129 - 217	29	109.7	3.6	3.3	110	82 - 138

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	182	190.8	10.7	5.6	190	143 - 239
All Alfa Wassermann Reagents	30	190.9	6.9	3.6	192	143 - 239
All Horiba Pentra Reagents	14	190.1	5.6	3.0	190	142 - 238
All Roche Reagents	17	189.5	4.5	2.4	189	142 - 237
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	-	-	-	197	146 - 245
All Chemistry Instruments	6	-	-	-	194	145 - 243
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	190.8	7.1	3.7	192	143 - 239
Beckman AU						
Beckman AU systems	31	188.4	6.7	3.6	189	141 - 236
ELITechGroup Envoy 500						
ELITechGroup Envoy 500	10	187.7	6.5	3.5	189	140 - 235
Horiba ABX Pentra						
Horiba ABX Pentra 400	14	190.1	5.6	3.0	190	142 - 238
Roche Integra						
Roche Integra	11	188.0	4.2	2.2	189	141 - 235
Siemens Healthcare						
Siemens Dimension	29	179.2	3.1	1.7	179	134 - 225
All Chemistry Instruments	29	179.2	3.1	1.7	179	134 - 225
VITROS						
VITROS 250,350,400 500,700,750,950	25	206.9	6.3	3.1	209	155 - 259
All Chemistry Instruments	29	207.5	6.3	3.0	209	155 - 260

Acetaminophen (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	104.70	3.25	3.1	104.7	78.5 - 130.9	5	39.00	0.57	1.5	39.0	29.2 - 48.8
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	72.35	0.35	0.5	72.4	54.2 - 90.5	5	29.00	0.42	1.5	29.0	21.7 - 36.3
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	95.10	0.85	0.9	95.1	71.3 - 118.9						

Carbamazepine (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	12.83	1.19	9.3	12.3	9.6 - 16.1	6	5.60	0.26	4.7	5.5	4.2 - 7.0
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	9.10	0.26	2.9	9.0	6.8 - 11.4	6	4.43	0.23	5.2	4.3	3.3 - 5.6
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	11.43	0.58	5.0	11.1	8.5 - 14.3						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	2.42	0.21	8.8	2.4	1.9 - 3.0	11	1.13	0.05	4.6	1.1	0.9 - 1.4
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	1.75	0.10	6.0	1.8	1.4 - 2.1	11	0.97	0.05	5.3	1.0	0.7 - 1.2
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	2.25	0.19	8.3	2.3	1.8 - 2.7						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	7.40	0.14	1.9	7.4	5.5 - 9.3	5	2.45	0.21	8.7	2.5	1.8 - 3.1
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.10	0.01	0.0	5.1	3.8 - 6.4	5	1.50	0.01	0.0	1.5	1.1 - 1.9
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	6.70	0.01	0.0	6.7	5.0 - 8.4						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.15	0.07	3.3	2.2	1.7 - 2.6	5	0.60	0.01	0.0	0.6	0.3 - 0.9
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.40	0.01	0.0	1.4	1.1 - 1.7	5	0.35	0.07	20.2	0.4	0.0 - 0.7
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.95	0.07	3.6	2.0	1.5 - 2.4						

Phenobarbital (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	38.10	0.85	2.2	38.1	30.4 - 45.8	6	13.40	0.85	6.3	13.4	10.7 - 16.1
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	25.10	0.99	3.9	25.1	20.0 - 30.2	6	9.55	0.35	3.7	9.6	7.6 - 11.5
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	33.70	1.56	4.6	33.7	26.9 - 40.5						

Phenytoin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	28.42	5.07	17.8	26.2	21.3 - 35.6	11	12.28	2.54	20.6	11.2	9.2 - 15.4
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	19.58	3.80	19.4	18.2	14.6 - 24.5	11	9.90	1.60	16.2	9.6	7.4 - 12.4
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	26.52	4.06	15.3	25.5	19.8 - 33.2						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	27.0	Not graded	2	-	-	-	11.3	Not graded
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	18.8	Not graded	2	-	-	-	8.6	Not graded
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	2	-	-	-	24.5	Not graded						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	32.90	0.14	0.4	32.9	24.6 - 41.2	5	15.85	1.48	9.4	15.9	11.8 - 19.9
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	24.65	2.62	10.6	24.7	18.4 - 30.9	5	13.05	1.20	9.2	13.1	9.7 - 16.4
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	30.05	3.61	12.0	30.1	22.5 - 37.6						

Valproic Acid (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				Specimen CH-7					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	87.82	6.20	7.1	84.6	65.8 - 109.8	5	46.36	2.89	6.2	45.9	34.7 - 58.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				Specimen CH-9					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	66.80	3.82	5.7	69.0	50.1 - 83.5	5	40.24	2.34	5.8	39.5	30.1 - 50.3
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10									
			<u>SD</u>	<u>CV</u>	<u>Median</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	81.30	3.38	4.2	81.0	60.9 - 101.7						

Vancomycin (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				Specimen CH-7					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	39.77	7.59	19.1	44.0	29.8 - 49.8	6	11.80	1.59	13.5	12.4	8.8 - 14.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				Specimen CH-9					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	25.50	5.63	22.1	28.5	19.1 - 31.9	6	6.67	0.61	9.2	6.8	5.0 - 8.4
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	35.30	7.19	20.4	39.2	26.4 - 44.2						

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-3						Specimen LP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	86	Not graded	2	-	-	-	107	Not graded

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-3						Specimen LP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	57.0	5.7	9.9	57	39 - 75	5	92.5	12.0	13.0	93	64 - 121

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	8.09	0.49	6.1	8.2	6.4 - 9.8	29	0.05	0.09	169.4	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	18	8.04	0.42	5.3	8.1	6.4 - 9.7	17	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	23	8.15	0.44	5.4	8.2	6.5 - 9.8	23	0.05	0.09	198.1	0.0	0.0 - 0.5
<u>Method</u>	Specimen NB-8						Specimen NB-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	12.55	0.56	4.5	12.6	10.0 - 15.1	30	4.77	0.33	6.9	4.8	3.8 - 5.8
No Reagent Required												
Bilirubinometer / Unistat	18	12.51	0.50	4.0	12.6	10.0 - 15.1	18	4.64	0.32	6.9	4.6	3.7 - 5.6
All Chemistry Instruments	23	12.63	0.52	4.2	12.6	10.1 - 15.2	23	4.75	0.37	7.8	4.7	3.8 - 5.8
<u>Method</u>	Specimen NB-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	29	14.61	0.40	2.8	14.6	11.6 - 17.6						
No Reagent Required												
Bilirubinometer / Unistat	18	14.63	0.43	3.0	14.8	11.7 - 17.6						
All Chemistry Instruments	23	14.66	0.41	2.8	14.7	11.7 - 17.6						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	3.25	0.47	14.4	3.1	2.3 - 4.2	11	0.02	0.03	159.3	0.0	0.0 - 0.1
<u>Method</u>	Specimen NB-8						Specimen NB-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	4.25	0.48	11.3	4.2	3.2 - 5.3	11	1.04	0.22	21.3	1.0	0.5 - 1.5
<u>Method</u>	Specimen NB-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	3.37	0.30	8.9	3.3	2.7 - 4.0						

Blood Gases – pH

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.323	0.008	0.1	7.33	7.28 - 7.37	11	7.312	0.008	0.1	7.31	7.27 - 7.36
i-STAT	11	7.323	0.008	0.1	7.33	7.28 - 7.37	11	7.312	0.008	0.1	7.31	7.27 - 7.36
<u>Method</u>	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.342	0.008	0.1	7.34	7.30 - 7.39	11	7.152	0.008	0.1	7.15	7.11 - 7.20
i-STAT	11	7.342	0.008	0.1	7.34	7.30 - 7.39	11	7.152	0.008	0.1	7.15	7.11 - 7.20
<u>Method</u>	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	7.508	0.004	0.1	7.51	7.46 - 7.55						
i-STAT	11	7.508	0.004	0.1	7.51	7.46 - 7.55						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	44.45	2.12	4.8	44.5	39.4 - 49.5	11	41.67	1.70	4.1	42.4	36.6 - 46.7
i-STAT	11	44.45	2.12	4.8	44.5	39.4 - 49.5	11	41.67	1.70	4.1	42.4	36.6 - 46.7
<u>Method</u>	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	47.94	2.19	4.6	47.3	42.9 - 53.0	11	68.40	2.00	2.9	68.2	62.9 - 73.9
i-STAT	11	47.94	2.19	4.6	47.3	42.9 - 53.0	11	68.40	2.00	2.9	68.2	62.9 - 73.9
<u>Method</u>	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	20.13	0.85	4.2	20.0	15.1 - 25.2						
i-STAT	11	20.13	0.85	4.2	20.0	15.1 - 25.2						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	163.00	4.38	2.7	164.0	149.8 - 176.2	11	74.00	3.81	5.1	75.0	62.5 - 85.5
i-STAT	11	163.00	4.38	2.7	164.0	149.8 - 176.2	11	74.00	3.81	5.1	75.0	62.5 - 85.5
<u>Method</u>	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	190.40	8.79	4.6	195.0	164.0 - 216.8	11	85.00	4.69	5.5	86.0	70.9 - 99.1
i-STAT	11	190.40	8.79	4.6	195.0	164.0 - 216.8	11	85.00	4.69	5.5	86.0	70.9 - 99.1
<u>Method</u>	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	158.33	7.26	4.6	158.5	136.5 - 180.2						
i-STAT	11	158.33	7.26	4.6	158.5	136.5 - 180.2						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-6 through BG-10 are: 0.96 mmol/L, 0.6 mmol/L, 1.3 mmol/L, 2.2 mmol/L, and 0.78 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-6 through BG-10 are: 97 mmol/L, 80 mmol/L, 90 mmol/L, 87 mmol/L, and 105 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-6 through BG-10 are: 4.6 mmol/L, 2.3 mmol/L, 4.4 mmol/L, 3.8 mmol/L, and 6.1 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-6 through BG-10 are: 155 mmol/L, 126 mmol/L, 138 mmol/L, 141 mmol/L, and 149 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

<u>Method</u>	<u>Specimen BG-6</u>						<u>Specimen BG-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.13	0.06	2.7	2.1	1.9 - 2.4	5	6.37	0.06	0.9	6.4	6.1 - 6.6
i-STAT	5	2.13	0.06	2.7	2.1	1.9 - 2.4	5	6.37	0.06	0.9	6.4	6.1 - 6.6
<u>Method</u>	<u>Specimen BG-8</u>						<u>Specimen BG-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.63	0.06	9.1	0.6	0.4 - 0.9	5	3.57	0.06	1.6	3.6	3.3 - 3.8
i-STAT	5	0.63	0.06	9.1	0.6	0.4 - 0.9	5	3.57	0.06	1.6	3.6	3.3 - 3.8
<u>Method</u>	<u>Specimen BG-10</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.13	0.06	5.1	1.1	0.9 - 1.4						
i-STAT	5	1.13	0.06	5.1	1.1	0.9 - 1.4						

Afinion Glycohemoglobin (percent)

<u>Method</u>	<u>Specimen AFN-3</u>						<u>Specimen AFN-4</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	77	8.28	0.14	1.7	8.3	7.7 - 8.8	76	6.26	0.10	1.7	6.3	5.8 - 6.7

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-3						Specimen GH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	161	7.79	0.28	3.6	7.8	7.3 - 8.3	163	5.72	0.20	3.6	5.7	5.3 - 6.1
All Hemoglobin A1c Methods	161	7.79	0.28	3.6	7.8	7.3 - 8.3	163	5.72	0.20	3.6	5.7	5.3 - 6.1
All TOSOH Methods	19	7.78	0.19	2.4	7.8	7.3 - 8.3	19	5.61	0.10	1.7	5.6	5.2 - 6.0
Beckman AU A1c	13	7.86	0.42	5.3	7.8	7.3 - 8.4	13	5.63	0.28	5.0	5.6	5.2 - 6.0
Siemens DCA Vantage	72	7.76	0.22	2.9	7.8	7.2 - 8.3	72	5.84	0.15	2.6	5.8	5.4 - 6.2
Siemens Dimension HB1C	28	7.73	0.27	3.5	7.8	7.2 - 8.2	28	5.59	0.13	2.2	5.6	5.2 - 6.0
TOSOH G8	19	7.78	0.19	2.4	7.8	7.3 - 8.3	19	5.61	0.10	1.7	5.6	5.2 - 6.0

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-6						Specimen WBG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	269	332.2	36.3	10.9	341	265 - 399	273	180.2	23.0	12.8	184	144 - 217
All Abbott Methods	19	328.6	18.9	5.7	332	262 - 395	19	174.1	10.1	5.8	173	139 - 209
All Arkray Methods	11	328.8	7.9	2.4	328	263 - 395	15	193.1	23.7	12.3	183	154 - 232
All Bayer Methods	40	272.4	21.2	7.8	269	217 - 327	39	144.1	11.5	8.0	141	115 - 173
All Hemocue Methods	69	345.0	10.9	3.2	346	276 - 415	68	198.0	6.8	3.4	198	158 - 238
All Lifescan Methods	18	366.1	36.9	10.1	377	292 - 440	17	197.1	19.3	9.8	200	157 - 237
All Roche Methods	31	349.5	7.5	2.1	349	279 - 420	31	187.0	4.7	2.5	187	149 - 225
Abbott FreeStyle Lite/Freedom Lite	10	323.8	14.2	4.4	325	259 - 389	10	172.3	4.8	2.8	172	137 - 207
Abbott Precision XceedPro	10	338.4	18.9	5.6	337	270 - 407	10	182.7	7.9	4.3	181	146 - 220
Arkray Platinum	11	328.8	7.9	2.4	328	263 - 395	15	193.1	23.7	12.3	183	154 - 232
Bayer Contour	40	272.4	21.2	7.8	269	217 - 327	39	144.1	11.5	8.0	141	115 - 173
HemoCue 201	67	344.7	10.9	3.2	345	275 - 414	66	198.1	6.9	3.5	198	158 - 238
Home Diagnostics True Balance / TrueTrack	10	594.6	14.8	2.5	600	475 - 714	13	425.1	7.5	1.8	425	340 - 511
Lifescan One Touch Ultra/2/Mini	15	378.5	25.5	6.7	381	302 - 455	14	204.7	9.9	4.9	203	163 - 246
Medline EvenCare G2 / G3	15	339.2	46.3	13.6	340	271 - 408	15	188.9	18.9	10.0	195	151 - 227
NOVA Biomedical StatStrip	21	304.5	16.2	5.3	303	243 - 366	22	159.3	8.6	5.4	160	127 - 192
PSS Quintet / AC	27	359.3	11.4	3.2	358	287 - 432	27	181.7	5.9	3.3	182	145 - 219
Roche Accu-Chek Aviva	10	345.8	2.6	0.8	346	276 - 415	10	184.0	2.7	1.5	184	147 - 221
Roche Accu-Chek Inform II	11	348.8	6.8	1.9	351	279 - 419	11	186.5	2.9	1.6	187	149 - 224
Roche Accu-Chek Performa	15	348.6	14.8	4.2	349	278 - 419	14	188.6	5.9	3.1	187	150 - 227
True Metrix Pro	10	328.3	15.4	4.7	326	262 - 394	10	168.7	26.7	15.8	161	134 - 203

<u>Method</u>	Specimen WBG-8						Specimen WBG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	211.3	19.0	9.0	211	169 - 254	14	55.1	7.5	13.5	55	43 - 68
All Abbott Methods	1	-	-	-	206	164 - 248	1	-	-	-	49	37 - 61
All Bayer Methods	2	-	-	-	174	138 - 209	2	-	-	-	55	42 - 67
All Lifescan Methods	6	221.5	8.1	3.6	223	177 - 266	6	49.7	3.9	7.9	49	37 - 62
All Roche Methods	3	-	-	-	209	166 - 251	3	-	-	-	63	50 - 76
Abbott Precision XceedPro	1	-	-	-	206	169 - 254	1	-	-	-	49	43 - 68
Bayer Contour	2	-	-	-	174	169 - 254	2	-	-	-	55	43 - 68
Lifescan One Touch Ultra/2/Mini	6	221.5	8.1	3.6	223	177 - 266	6	49.7	3.9	7.9	49	37 - 62
Medline EvenCare G2 / G3	1	-	-	-	210	169 - 254	1	-	-	-	70	43 - 68
Roche Accu-Chek Inform II	2	-	-	-	208	169 - 254	2	-	-	-	63	43 - 68
Roche Accu-Chek Performa	1	-	-	-	210	169 - 254	1	-	-	-	64	43 - 68

Whole Blood Glucose (mg/dL) cont'd

<u>Method</u>	Specimen WBG-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	113.0	11.0	9.8	114	90 - 136
All Abbott Methods	1	-	-	-	99	79 - 119
All Bayer Methods	2	-	-	-	95	75 - 114
All Lifescan Methods	6	115.8	5.0	4.3	115	92 - 139
All Roche Methods	3	-	-	-	114	91 - 138
Abbott Precision XceedPro	1	-	-	-	99	90 - 136
Bayer Contour	2	-	-	-	95	90 - 136
Lifescan One Touch Ultra/2/Mini	6	115.8	5.0	4.3	115	92 - 139
Medline EvenCare G2 / G3	1	-	-	-	132	90 - 136
Roche Accu-Chek Inform II	2	-	-	-	114	90 - 136
Roche Accu-Chek Performa	1	-	-	-	116	90 - 136

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	8.066	0.468	5.8	8.20	7.13 - 9.01	5	11.528	0.463	4.0	11.30	10.60 - 12.46

Insulin (µU/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	49.52	17.66	35.7	59.4	14.1 - 84.9	15	60.27	22.26	36.9	72.8	15.7 - 104.8
Beckman ACCESS / 2 / Dxl	10	62.70	3.24	5.2	62.5	56.2 - 69.2	10	77.15	3.29	4.3	77.2	70.5 - 83.8

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	23.1	8.1	35.0	23	6 - 40	29	20.7	7.0	33.8	20	6 - 35
All TOSOH Instruments	8	20.6	8.3	40.4	19	3 - 38	8	18.6	7.5	40.5	19	3 - 34
Beckman ACCESS / 2 / Dxl	10	24.7	6.4	26.0	24	11 - 38	10	22.4	6.4	28.6	22	9 - 36
TOSOH ST AIA PACK	10	19.8	9.1	45.9	15	1 - 38	10	17.8	8.0	44.8	15	1 - 34

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

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	109	46.39	11.63	25.1	46.1	23.1 - 69.7	109	61.36	15.33	25.0	61.1	30.7 - 92.1
All Roche Instruments	11	28.93	4.78	16.5	28.4	19.3 - 38.5	11	38.56	6.41	16.6	37.5	25.7 - 51.4
All TOSOH Instruments	20	60.42	3.01	5.0	60.2	54.4 - 66.5	20	79.59	4.25	5.3	78.4	71.0 - 88.1
Abbott Architect	11	45.30	1.06	2.3	45.2	43.1 - 47.5	44	58.29	1.87	3.2	57.7	54.5 - 62.1
Beckman ACCESS / 2 / Dxl	44	47.17	5.74	12.2	48.1	35.6 - 58.7	42	64.04	6.71	10.5	64.0	50.6 - 77.5
Qualigen FastPack	10	36.27	8.23	22.7	35.8	19.8 - 52.8	10	40.67	6.55	16.1	41.7	27.5 - 53.8
Roche cobas e 411	10	27.11	2.59	9.6	27.5	21.9 - 32.3	10	36.27	4.00	11.0	37.5	28.2 - 44.3
TOSOH AIA PACK	10	58.76	2.17	3.7	58.2	54.4 - 63.2	10	77.34	3.45	4.5	77.0	70.4 - 84.3
TOSOH ST AIA PACK	12	61.52	3.05	5.0	62.3	55.4 - 67.7	12	81.08	4.19	5.2	81.5	72.7 - 89.5

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	2	-	-	-	187	Not graded	2	-	-	-	150	Not graded

Free Testosterone (pg/mL)

<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	2	-	-	-	80	Not graded	2	-	-	-	64	Not graded

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

<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	14	96.529	15.103	15.6	90.55	51.21 - 141.84	14	66.016	11.937	18.1	66.80	30.20 - 101.83
Beckman ACCESS / 2 / Dxl	7	99.100	15.288	15.4	98.00	53.23 - 144.97	7	71.186	13.644	19.2	67.00	30.25 - 112.12
Siemens Immulite/1000	5	94.740	13.718	14.5	90.00	53.58 - 135.90	5	60.520	6.642	11.0	57.90	40.59 - 80.45

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	13	816.2	251.0	30.8	684	571 - 1061	13	536.2	142.8	26.6	476	375 - 697
All Immulite Instruments	4	1150.8	102.6	8.9	1153	805 - 1496	4	721.0	79.2	11.0	720	504 - 938
Beckman ACCESS / 2 / Dxl	7	630.1	38.0	6.0	621	441 - 820	7	428.1	31.9	7.5	421	299 - 557
Siemens Immulite/1000	4	1150.8	102.6	8.9	1153	805 - 1496	4	721.0	79.2	11.0	720	504 - 938

BNP (pg/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	41	3487.63	282.01	8.1	2180.0	2615.7 - 4359.6	41	496.72	38.71	7.8	349.0	372.5 - 620.9
Alere Triage	23	2265.65	385.10	17.0	2140.0	1495.4 - 3035.9	23	334.65	38.78	11.6	325.0	250.9 - 418.4
i-STAT - moderate	10	3634.00	214.42	5.9	3583.0	2725.5 - 4542.5	10	484.25	34.27	7.1	492.0	363.1 - 605.4
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	41	988.74	35.80	3.6	725.5	741.5 - 1236.0	41	2063.00	196.55	9.5	1465.0	1547.2 - 2578.8
Alere Triage	23	603.57	108.42	18.0	594.0	386.7 - 820.5	23	1181.14	223.59	18.9	1130.0	733.9 - 1628.4
i-STAT - moderate	10	998.25	33.26	3.3	992.5	748.6 - 1247.9	10	2131.50	142.23	6.7	2085.5	1598.6 - 2664.4
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	41	51.84	13.86	26.7	44.0	24.1 - 79.6						
Alere Triage	23	42.24	7.79	18.4	41.3	26.6 - 57.9						
i-STAT - moderate	10	45.75	2.99	6.5	45.0	34.3 - 57.2						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	102.37	19.26	18.8	65.2	44.5 - 160.2	27	17.21	2.75	16.0	11.9	8.9 - 25.5
Alere Triage	16	36.95	4.16	11.3	37.7	24.4 - 49.5	16	7.04	1.30	18.5	7.4	3.1 - 11.0
Dade Stratus CS	11	100.63	5.51	5.5	101.4	84.1 - 117.2	11	18.35	1.23	6.7	17.8	14.6 - 22.1
Siemens Dimension	10	118.74	11.25	9.5	114.3	84.9 - 152.6	10	16.48	1.49	9.0	16.6	12.0 - 21.0
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	29.32	4.87	16.6	19.4	14.7 - 44.0	27	53.63	9.79	18.3	32.4	24.2 - 83.1
Alere Triage	16	11.37	1.78	15.6	11.2	6.0 - 16.8	16	21.13	4.09	19.4	21.8	8.8 - 33.5
Dade Stratus CS	11	30.28	1.69	5.6	29.4	25.2 - 35.4	11	54.57	3.30	6.0	53.6	44.6 - 64.5
Siemens Dimension	10	29.96	2.42	8.1	29.8	22.7 - 37.3	10	59.08	5.15	8.7	57.3	43.6 - 74.6
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	27	6.31	1.08	17.1	4.6	3.0 - 9.6						
Alere Triage	16	2.31	0.46	20.0	2.4	0.9 - 3.7						
Dade Stratus CS	11	6.97	0.45	6.5	6.7	5.6 - 8.4						
Siemens Dimension	10	5.46	0.39	7.2	5.3	4.2 - 6.7						

D-Dimer (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	2735.6	954.9	34.9	2235	825 - 4646	38	852.3	211.4	24.8	765	429 - 1276
Alere Triage	22	2203.6	184.0	8.4	2165	1542 - 2865	22	754.0	84.0	11.1	746	527 - 981
Dade Stratus CS	11	3236.5	229.5	7.1	3262	2265 - 4208	11	963.2	54.9	5.7	958	674 - 1253

<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	1266.7	281.5	22.2	983	703 - 1830	38	1893.9	462.8	24.4	1420	968 - 2820
Alere Triage	22	975.5	105.3	10.8	967	682 - 1269	22	1337.6	212.5	15.9	1355	912 - 1763
Dade Stratus CS	11	1367.7	97.3	7.1	1357	957 - 1778	11	2064.2	115.7	5.6	2051	1444 - 2684

<u>Method</u>	Specimen CK-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	569.4	58.7	10.3	538	398 - 741
Alere Triage	22	538.1	79.2	14.7	530	376 - 700
Dade Stratus CS	11	587.7	36.7	6.2	575	411 - 764

D-Dimer (µgFEU/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	Not graded	-	-	-	-	-	Not graded

<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	Not graded	-	-	-	-	-	Not graded

<u>Method</u>	Specimen CK-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	Not graded

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	421.83	107.11	25.4	369.8	207.6 - 636.1	22	75.70	14.19	18.7	91.0	47.3 - 104.1
Alere Triage	12	372.17	55.16	14.8	368.0	260.5 - 483.9	12	91.25	10.40	11.4	91.1	63.8 - 118.7
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	125.75	25.93	20.6	143.5	73.8 - 177.7	22	220.50	49.31	22.4	229.9	121.8 - 319.2
Alere Triage	12	147.25	20.10	13.7	148.0	103.0 - 191.5	12	223.50	23.93	10.7	230.5	156.4 - 290.6
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	22	29.23	3.51	12.0	34.7	20.4 - 38.0						
Alere Triage	12	36.07	2.70	7.5	36.0	25.2 - 46.9						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	3506.4	1847.2	52.7	2726	0 - 7201	14	366.2	237.2	64.8	283	0 - 841
Roche cobas e 411	5	5473.5	563.6	10.3	5474	4105 - 6842	5	618.0	53.7	8.7	618	463 - 773
Siemens Dimension NT-proBNP	6	2195.0	465.4	21.2	2001	1264 - 3126	6	198.3	73.4	37.0	159	51 - 346
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	432.7	139.2	32.2	363	154 - 712	9	971.7	262.4	27.0	848	446 - 1497
Siemens Dimension NT-proBNP	6	432.7	139.2	32.2	363	154 - 712	6	971.7	262.4	27.0	848	446 - 1497
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	20.0	5.3	26.5	18	9 - 31						
Siemens Dimension NT-proBNP	6	20.0	5.3	26.5	18	9 - 31						

Troponin I (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	20.154	18.108	89.8	13.30	0.00 - 56.38	42	1.752	2.048	116.9	0.71	0.00 - 5.85
All HS Troponin I Methods	11	46.662	11.487	24.6	44.88	23.68 - 69.64	11	6.286	3.877	61.7	5.39	0.00 - 14.04
All Non-HS Troponin I Methods	14	5.171	1.129	21.8	5.34	2.91 - 7.43	14	0.568	0.097	17.1	0.61	0.37 - 0.77
Alere Triage	17	13.782	1.578	11.4	13.50	9.64 - 17.92	17	0.732	0.181	24.7	0.73	0.37 - 1.10
Dade Stratus CS	11	5.460	0.116	2.1	5.47	3.82 - 7.10	11	0.655	0.028	4.3	0.67	0.45 - 0.86
Siemens Dimension	10	4.186	0.291	7.0	4.23	2.93 - 5.45	10	0.464	0.044	9.6	0.47	0.32 - 0.61

<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	4.009	4.120	102.8	2.16	0.00 - 12.25	42	10.240	9.619	93.9	6.43	0.00 - 29.48
All HS Troponin I Methods	11	10.225	3.248	31.8	9.70	3.72 - 16.73	11	26.391	8.540	32.4	26.43	9.30 - 43.48
All Non-HS Troponin I Methods	14	1.185	0.180	15.2	1.29	0.82 - 1.55	14	2.441	0.389	15.9	2.63	1.66 - 3.22
Alere Triage	17	2.311	0.511	22.1	2.24	1.28 - 3.34	17	6.586	1.477	22.4	6.55	3.63 - 9.54
Dade Stratus CS	11	1.342	0.025	1.9	1.35	0.93 - 1.75	11	2.690	0.053	2.0	2.71	1.88 - 3.50
Siemens Dimension	10	0.996	0.093	9.3	0.98	0.69 - 1.30	10	2.036	0.191	9.4	1.98	1.42 - 2.65

<u>Method</u>	Specimen CK-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	42	0.132	0.160	120.9	0.05	0.00 - 0.46
All HS Troponin I Methods	11	0.475	0.342	72.0	0.48	0.00 - 1.17
All Non-HS Troponin I Methods	14	0.056	0.049	87.9	0.05	0.00 - 0.16
Alere Triage	17	0.050	0.001	0.0	0.05	0.03 - 0.07
Dade Stratus CS	11	0.070	0.009	12.8	0.07	0.04 - 0.10
Siemens Dimension	10	0.016	0.009	55.9	0.02	0.00 - 0.04

Troponin T (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.0335	0.1600	15.9	1.0335	0.713 - 1.354	5	0.2245	0.0600	26.7	0.2245	0.104 - 0.345
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.3280	0.0500	15.2	0.3280	0.228 - 0.428	5	0.5685	0.0900	15.8	0.5685	0.388 - 0.749
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	0.0885	0.0100	11.3	0.078	0.061 - 0.116						

PSA (ng/mL)

<u>Method</u>	<u>Specimen PS-3</u>						<u>Specimen PS-4</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	120	9.964	1.675	16.8	9.84	6.97 - 12.96	121	5.237	0.839	16.0	5.19	3.66 - 6.81
All TOSOH Instruments	31	8.407	0.485	5.8	8.37	5.88 - 10.93	31	4.420	0.255	5.8	4.45	3.09 - 5.75
Abbott Architect	10	9.609	0.367	3.8	9.63	6.72 - 12.50	10	4.858	0.289	6.0	4.79	3.40 - 6.32
Beckman ACCESS / 2 / Dxl	19	11.569	0.703	6.1	11.45	8.09 - 15.04	19	6.075	0.398	6.6	6.11	4.25 - 7.90
Beckman ACCESS Hybritech PSA	20	11.353	0.474	4.2	11.26	7.94 - 14.76	20	5.954	0.274	4.6	5.91	4.16 - 7.75
Siemens Dimension TPSA	16	9.713	0.828	8.5	9.57	6.79 - 12.63	16	5.024	0.452	9.0	4.91	3.51 - 6.54
TOSOH AIA PACK	12	8.632	0.398	4.6	8.54	6.04 - 11.23	12	4.484	0.165	3.7	4.48	3.13 - 5.83
TOSOH ST AIA PACK	19	8.265	0.490	5.9	8.19	5.78 - 10.75	19	4.379	0.296	6.8	4.39	3.06 - 5.70

Beta-2 microglobulin

<u>Method</u>	<u>Specimen TM-3</u>						<u>Specimen TM-4</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	2.133	0.235	11.0	2.08	1.42 - 2.84	11	1.372	0.172	12.6	1.32	0.85 - 1.89

CA 125 (U/mL)

<u>Method</u>	<u>Specimen TM-3</u>						<u>Specimen TM-4</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	17	79.2	11.7	14.7	91	55 - 103	17	45.1	6.6	14.7	51	31 - 59
All TOSOH Instruments	12	127.4	3.9	3.1	126	89 - 166	12	70.8	3.0	4.3	72	49 - 92
TOSOH ST AIA PACK	10	127.4	3.9	3.1	126	89 - 166	10	70.8	3.0	4.3	72	49 - 92

CA 15-3 (U/mL)

<u>Method</u>	<u>Specimen TM-3</u>						<u>Specimen TM-4</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	55.1	24.3	44.2	48	6 - 104	11	35.8	17.5	48.9	28	0 - 71

CA 19-9 (U/mL)

<u>Method</u>	<u>Specimen TM-3</u>						<u>Specimen TM-4</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	113.8	45.6	40.1	142	22 - 206	10	61.7	21.9	35.5	74	17 - 106

(U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	216.2	17.9	8.3	216	151 - 282	14	125.1	9.6	7.7	127	87 - 163
All TOSOH Instruments	12	216.2	17.9	8.3	216	151 - 282	12	125.1	9.6	7.7	127	87 - 163
TOSOH ST AIA PACK	10	215.5	19.0	8.8	210	150 - 281	10	124.8	10.2	8.2	125	87 - 163

CEA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	19.75	4.08	20.7	19.3	13.8 - 25.7	12	11.21	1.98	17.7	11.2	7.8 - 14.6

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	3.562	0.755	21.2	3.16	2.49 - 4.64	12	2.526	0.511	20.2	2.28	1.62 - 3.43

PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	4.072	0.785	19.3	4.11	2.85 - 5.30	33	2.962	0.512	17.3	2.90	2.06 - 3.87

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	47.34	17.46	36.9	35.7	12.4 - 82.3	6	19.92	4.70	23.6	18.4	10.5 - 29.4

CEA (ng/mL)

<u>Method</u>	<u>Specimen SC-3</u>						<u>Specimen SC-4</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	17	14.22	2.61	18.3	14.1	9.9 - 18.5	17	7.84	1.14	14.6	7.7	5.4 - 10.2
All TOSOH Instruments	12	13.88	0.57	4.1	14.1	9.7 - 18.1	12	7.45	0.22	2.9	7.4	5.2 - 9.7
TOSOH AIA PACK	10	13.98	0.63	4.5	14.1	9.7 - 18.1	10	7.43	0.22	3.0	7.4	5.2 - 9.7

DHEA-S (µg/dL)

<u>Method</u>	<u>Specimen SC-3</u>						<u>Specimen SC-4</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	18	301.40	33.69	11.2	292.0	210.9 - 391.9	18	196.62	25.51	13.0	196.0	137.6 - 255.7
Beckman ACCESS / 2 / Dxl	11	302.78	27.26	9.0	298.1	211.9 - 393.7	11	194.90	18.60	9.5	194.0	136.4 - 253.4

Estradiol (pg/mL)

<u>Method</u>	<u>Specimen SC-3</u>						<u>Specimen SC-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	314.1	58.9	18.8	306	196 - 432	30	202.3	41.5	20.5	219	119 - 286
All TOSOH Instruments	11	320.1	31.9	10.0	314	256 - 384	11	230.7	23.6	10.2	233	183 - 278

Ferritin (ng/mL)

<u>Method</u>	<u>Specimen SC-3</u>						<u>Specimen SC-4</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	41	159.8	23.7	14.8	127	111 - 208	40	94.6	14.7	15.5	75	66 - 124
All TOSOH Instruments	23	116.0	4.0	3.5	117	81 - 151	24	68.2	4.2	6.1	68	47 - 89
Beckman ACCESS / 2 / Dxl	32	124.3	6.7	5.4	126	86 - 162	32	73.1	3.7	5.0	73	51 - 96
Siemens Dimension	10	159.3	4.2	2.6	159	111 - 208	10	96.3	3.9	4.1	97	67 - 126
TOSOH ST AIA PACK	15	117.3	6.2	5.3	117	82 - 153	15	68.5	5.1	7.4	68	47 - 90

Folate (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	2.88	0.81	28.2	4.0	1.9 - 3.8	44	1.74	0.42	24.2	2.2	0.8 - 2.7
All Roche Instruments	11	2.35	0.47	20.1	2.2	1.4 - 3.3	11	1.88	0.39	20.7	2.0	0.9 - 2.8
All Siemens Dimension Instruments	10	2.42	0.20	8.4	2.4	1.5 - 3.4	10	1.53	0.23	15.2	1.6	0.6 - 2.5
All TOSOH Instruments	12	3.64	0.34	9.4	3.6	2.5 - 4.8	12	2.82	0.39	13.8	2.9	1.9 - 3.8
Beckman ACCESS / 2 / Dxl	27	4.36	0.25	5.8	4.4	3.0 - 5.7	27	2.37	0.19	7.9	2.4	1.4 - 3.3
TOSOH AIA PACK	10	3.62	0.34	9.4	3.5	2.5 - 4.8	10	2.80	0.45	16.0	2.9	1.9 - 3.7

FSH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	36.20	4.49	12.4	35.8	27.1 - 45.3	28	21.30	3.42	16.0	22.0	15.9 - 26.7
Beckman ACCESS / 2 / Dxl	11	39.02	3.73	9.6	39.1	29.2 - 48.8	11	23.44	2.65	11.3	22.5	17.5 - 29.3

Homocysteine (µmol/L)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	45.4	4.1	9.0	46	31 - 60	11	25.1	2.1	8.4	25	17 - 33

LH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	33.87	8.05	23.8	39.6	17.7 - 50.0	21	18.84	4.84	25.7	21.8	9.1 - 28.6
Beckman ACCESS / 2 / Dxl	11	26.75	2.12	7.9	27.1	22.5 - 31.0	11	14.62	1.18	8.0	14.6	12.2 - 17.0

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	24.05	3.88	16.2	24.3	16.8 - 31.3	20	14.22	2.63	18.5	13.6	9.9 - 18.5

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	29.86	2.39	8.0	29.4	20.8 - 38.9	18	14.56	1.49	10.2	14.4	10.1 - 19.0

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	872.7	139.8	16.0	833	610 - 1135	92	533.6	102.8	19.3	486	373 - 694
All Roche Instruments	10	919.8	27.0	2.9	918	643 - 1196	10	559.0	20.1	3.6	569	391 - 727
All Siemens Immulite Instruments	11	950.1	113.5	11.9	1005	665 - 1236	11	651.4	53.0	8.1	654	456 - 847
All TOSOH Instruments	21	1046.1	49.3	4.7	1045	732 - 1360	21	640.3	45.0	7.0	639	448 - 833
Abbott Architect	10	846.0	42.1	5.0	837	592 - 1100	10	444.6	20.7	4.7	440	311 - 578
Beckman ACCESS / 2 / Dxl	30	774.2	77.3	10.0	767	541 - 1007	30	458.6	45.2	9.8	451	320 - 597
Siemens Immulite/1000	10	973.5	104.3	10.7	1007	681 - 1266	10	656.3	56.2	8.6	655	459 - 854
TOSOH AIA PACK	10	1007.2	34.1	3.4	994	705 - 1310	10	626.8	46.5	7.4	622	438 - 815
TOSOH ST AIA PACK	11	1063.8	45.6	4.3	1056	744 - 1383	11	646.4	45.1	7.0	639	452 - 841

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	212.3	4.9	2.3	213	191 - 234	10	169.0	4.6	2.7	170	152 - 186

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	85	810.5	96.5	11.9	797	567 - 1054	85	567.1	71.3	12.6	555	396 - 738
All Roche Instruments	13	901.5	79.2	8.8	919	631 - 1172	13	610.9	50.1	8.2	614	427 - 795
All TOSOH Instruments	20	899.3	33.1	3.7	895	629 - 1170	20	661.9	38.4	5.8	657	463 - 861
Abbott Architect	10	896.7	59.9	6.7	913	627 - 1166	10	594.7	32.7	5.5	596	416 - 774
Beckman ACCESS / 2 / Dxl	39	730.0	42.9	5.9	727	510 - 949	39	506.6	29.8	5.9	507	354 - 659
Roche cobas e 411	11	891.3	89.2	10.0	919	623 - 1159	11	597.4	50.0	8.4	607	418 - 777
TOSOH AIA PACK	10	912.7	29.8	3.3	913	638 - 1187	10	669.0	42.8	6.4	666	468 - 870
TOSOH ST AIA PACK	10	872.4	21.7	2.5	882	610 - 1135	10	647.8	26.1	4.0	656	453 - 843

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-6						Specimen ETH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	137.3	8.6	6.3	139	102 - 172	5	190.0	16.1	8.5	195	142 - 238
<u>Method</u>	Specimen ETH-8						Specimen ETH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	14.3	1.5	10.7	14	10 - 18	5	8.0	2.0	25.0	8	6 - 10
<u>Method</u>	Specimen ETH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	5	169.3	19.7	11.6	177	126 - 212						

Acetone

<u>Method</u>	Specimen ETH-6					Specimen ETH-7				
	<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	13	13	-	-	-	13	-	-	3	10
Biorex Labs K-CHECK	7	7	-	-	-	7	-	-	2	5
Germaine Laboratories AimTab	1	1	-	-	-	1	-	-	-	1
Siemens Acetest	5	5	-	-	-	5	-	-	1	4
<u>Method</u>	Specimen ETH-8					Specimen ETH-9				
	<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	13	13	-	-	-	13	13	-	-	-
Biorex Labs K-CHECK	7	7	-	-	-	7	7	-	-	-
Germaine Laboratories AimTab	1	1	-	-	-	1	1	-	-	-
Siemens Acetest	5	5	-	-	-	5	5	-	-	-
<u>Method</u>	Specimen ETH-10									
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>					
ALL METHODS	13	-	-	2	11					
Biorex Labs K-CHECK	7	-	-	2	5					
Germaine Laboratories AimTab	1	-	-	-	1					
Siemens Acetest	5	-	-	-	5					

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	279.531	48.754	17.4	284.58	182.02 - 377.04	18	3.010	5.848	194.3	0.30	0.00 - 14.71
Beckman ACCESS / 2 / Dxl	10	303.521	22.149	7.3	303.05	259.22 - 347.82	10	0.663	1.194	180.1	0.25	0.00 - 3.06

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	10.954	4.243	38.7	9.55	2.46 - 19.44	16	2.048	3.400	166.1	0.45	0.00 - 8.85
Beckman ACCESS / 2 / Dxl	10	8.760	0.810	9.2	8.75	7.14 - 10.38	9	0.433	0.071	16.3	0.40	0.29 - 0.58

Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-3						Specimen AMM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	285.5	9.0	3.2	284	267 - 304	16	26.3	6.4	24.4	29	13 - 40
Siemens Dimension	10	288.0	9.2	3.2	290	269 - 307	10	26.3	6.4	24.4	29	13 - 40

Adulterated Urine – Specific Gravity

<u>Method</u>	Specimen AUR-3						Specimen AUR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.0070	0.0014	0.1	1.007	0.997 - 1.017	5	1.0480	0.0141	1.3	1.048	1.038 - 1.058
Beckman AU	5	1.0070	0.0014	0.1	1.007	0.997 - 1.017	5	1.0480	0.0141	1.3	1.048	1.038 - 1.058

Adulterated Urine – Specific Gravity Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
All Methods	5	5	-	5	-	5
Beckman AU	5	5	-	5	-	5

Adulterated Urine – pH

<u>Method</u>	Specimen AUR-3						Specimen AUR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	3.15	0.21	6.7	3.2	2.6 - 3.7	5	6.85	0.21	3.1	6.9	6.3 - 7.4
Beckman AU	5	3.15	0.21	6.7	3.2	2.6 - 3.7	5	6.85	0.21	3.1	6.9	6.3 - 7.4

Adulterated Urine – pH Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	5	1	4	5	5	-
Beckman AU	4	-	4	4	4	-
Carolina Chemistries BiOlis	1	1	-	1	1	-

Adulterated Urine – Creatinine (mg/dL)

<u>Method</u>	Specimen AUR-3						Specimen AUR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	62.07	0.81	1.3	62.2	51.5 - 72.7	5	0.05	0.10	200.0	0.0	0.0 - 3.1
Beckman AU	5	62.07	0.81	1.3	62.2	51.5 - 72.7	5	0.05	0.10	200.0	0.0	0.0 - 3.1

Adulterated Urine – Creatinine Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	3	3	-	3	-	3
Beckman AU	2	2	-	2	-	2
Carolina Chemistries BiOlis	1	1	-	1	-	1

Adulterated Urine – Nitrite Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
All Methods	1	1	-	1	1	-
Beckman AU	1	1	-	1	1	-

Adulterated Urine – Oxidants Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Negative/Normal</u>	<u>Positive/Abnormal</u>	<u>Labs</u>	<u>Negative/Normal</u>	<u>Positive/Abnormal</u>
All Methods	1	1	-	1	1	-
Beckman AU	1	1	-	1	1	-

Ethyl Glucuronide (EtG) (ng/mL)

<u>Method</u>	Specimen ETG-3			Specimen ETG-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	2	-	2	-	2
Cut-off 500						
Beckman AU	1	1	-	1	-	1
Siemens Viva-E	1	1	-	1	-	1
All Cut-off 500	2	2	-	2	-	2

Urine Drug Screen

Acetaminophen (µg/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	4	1	5	-	5
Cut-off 5						
Alere Triage	5	4	1	5	-	5
All Cut-off 5	5	4	1	5	-	5

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	87	1	86	87	-	87
Cut-off 250						
Roche Integra	1	-	1	1	-	1
All Cut-off 250	1	-	1	1	-	1
Cut-off 500						
Beckman AU	3	-	3	3	-	3
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Siemens Dimension	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 500	15	-	15	15	-	15
Cut-off 1000						
Alere iCassette	2	-	2	2	-	2
Alere iCup	9	-	9	9	-	9
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Germaine Laboratories AimScreen	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	3	-	3	3	-	3
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	63	-	63	63	-	63

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	15	1	14	15	1	14
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Beckman AU	4	-	4	4	-	4
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 500	8	-	8	8	-	8
Cut-off 1000						
Alere iCassette	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 1000	3	-	3	3	-	3

Barbiturates (ng/mL)

<u>Method</u>	<u>Specimen UDS-3</u>			<u>Specimen UDS-4</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	83	1	82	84	83	1
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 200						
Alfa Scientific Instant-View	1	-	1	1	1	-
Beckman AU	8	-	8	8	8	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Lin-Zhi International	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	2	-	2	2	2	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	3	-	3	3	3	-
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	2	-	2	2	2	-
Alere iCup	9	-	9	9	9	-
Alere iScreen	1	-	1	1	1	-
Alere Triage	1	-	1	1	1	-
Amedica Biotech AmediCheck	2	-	2	2	2	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	21	-	21	21	21	-
Microgenics DRI	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 300	46	1	45	47	47	-

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	87	-	87	87	1	86
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
All Cut-off 100	3	-	3	3	-	3
Cut-off 150						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 150	5	-	5	5	-	5
Cut-off 200						
Beckman AU	7	-	7	7	-	7
ImmTox	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	3	-	3	3	-	3
Microgenics DRI	3	-	3	3	-	3
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	4	-	4	4	-	4
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	23	-	23	23	-	23
Cut-off 300						
Alere iCassette	2	-	2	2	-	2
Alere iCup	9	-	9	9	-	9
Alere iScreen	2	-	2	2	-	2
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	22	-	22	22	-	22
Microgenics DRI	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	49	-	49	49	-	49

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	34	-	34	34	-	34
Cut-off 5						
Beckman AU	4	-	4	4	-	4
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	3	-	3	3	-	3
Microgenics CEDIA	3	-	3	3	-	3
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	15	-	15	15	-	15
Cut-off 10						
Alere iCup	1	-	1	1	-	1
Alere iScreen	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
Chemtron Biotech	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics CEDIA	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
All Cut-off 10	13	-	13	13	-	13
Cut-off 20						
Indiko Plus	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 15						
Beckman AU	1	-	1	1	-	1
All Cut-off 15	1	-	1	1	-	1

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	100	1	99	101	101	-
Cut-off 20						
Roche Integra	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 20	2	-	2	2	2	-
Cut-off 25						
Beckman AU	1	-	1	1	1	-
All Cut-off 25	1	-	1	1	1	-
Cut-off 50						
Alere iCassette	2	-	2	2	2	-
Alere iCup	10	-	10	10	10	-
Alere iScreen	1	-	1	1	1	-
Alere Triage	1	-	1	1	1	-
Alfa Scientific Instant-View	6	-	6	6	6	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Beckman AU	7	-	7	7	7	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	22	-	22	22	22	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
Germaine Laboratories AimScreen	3	-	3	3	3	-
ImmTox	1	-	1	1	1	-
Indiko Plus	2	-	2	2	2	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
Lin-Zhi International	3	-	3	3	3	-
MEDTOX Diagnostics	4	-	4	4	4	-
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	3	-	3	3	3	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 50	88	1	87	89	89	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-

Carisoprodol (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods Cut-off 100	2	-	2	2	-	2
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2

Cocaine Metabolites (ng/mL)

<u>Method</u>	<u>Specimen UDS-3</u>			<u>Specimen UDS-4</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	102	-	102	102	-	102
Cut-off 50						
Amedica Biotech AmediCheck	1	-	1	1	-	1
All Cut-off 50	1	-	1	1	-	1
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Beckman AU	6	-	6	6	-	6
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 150	20	-	20	20	-	20
Cut-off 300						
Alere iCassette	2	-	2	2	-	2
Alere iCup	10	-	10	10	-	10
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	6	-	6	6	-	6
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	22	-	22	22	-	22
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Germaine Laboratories AimScreen	3	-	3	3	-	3
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	3	-	3	3	-	3
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	72	-	72	72	-	72

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	3	-	3	3	3	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
Immunalysis	1	-	1	1	1	-
All Cut-off 100	2	-	2	2	2	-
Cut-off 300						
Microgenics DRI	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	14	14	-	14	-	14
Cut-off 10						
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 10	1	1	-	1	-	1
Cut-off 20						
Beckman AU	2	2	-	2	-	2
Microgenics DRI	1	1	-	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 20	4	4	-	4	-	4
Cut-off 50						
Beckman AU	1	1	-	1	-	1
All Cut-off 50	1	1	-	1	-	1
Cut-off 100						
Beckman AU	2	2	-	2	-	2
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Lin-Zhi International	2	2	-	2	-	2
Microgenics DRI	1	1	-	1	-	1
All Cut-off 100	7	7	-	7	-	7
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-3			Specimen UDS-4		
	<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 1						
Beckman AU	1	-	1	1	-	1
All Cut-off 1	1	-	1	1	-	1
Cut-off 2						
ImmTox	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	2	-	2	2	-	2

Hydrocodone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	-	1	1	-	1

LSD (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	-	1	1	-	1

MDMA (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	48	1	47	48	-	48
Cut-off 500						
Alere iCassette	1	-	1	1	-	1
Alere iCup	8	-	8	8	-	8
Amedica Biotech AmediCheck	2	-	2	2	-	2
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
Microgenics DRI	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnositics One Step Multi-Drug	2	-	2	2	-	2
USDiagnositics UScreen Cup	1	-	1	1	-	1
All Cut-off 500	44	-	44	44	-	44

Meperidine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1	-	1	1	1	-

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	82	-	82	82	-	82
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Beckman AU	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 150	4	-	4	4	-	4
Cut-off 200						
MEDTOX Diagnostics	4	-	4	4	-	4
All Cut-off 200	4	-	4	4	-	4
Cut-off 300						
Alere iCassette	2	-	2	2	-	2
Alere iCup	8	-	8	8	-	8
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
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	22	-	22	22	-	22
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	2	-	2	2	-	2
Microgenics DRI	6	-	6	6	-	6
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
USDiagnositics One Step Multi-Drug	2	-	2	2	-	2
USDiagnositics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	65	-	65	65	-	65
Cut-off 1000						
Alere iCup	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	59	-	59	59	-	59
Cut-off 500						
Alere iScreen	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
BMC QuickTox Drug Screen	21	-	21	21	-	21
ImmTox	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 500	33	-	33	33	-	33
Cut-off 1000						
Alere iCassette	1	-	1	1	-	1
Alere iCup	10	-	10	10	-	10
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	21	-	21	21	-	21

Methanol (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

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

6-MAM (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	6	-	6	6	-	6
Cut-off 10						
Beckman AU	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
All Cut-off 10	6	-	6	6	-	6

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	106	1	105	107	106	1
Cut-off 100						
Beckman AU	1	-	1	1	1	-
MEDTOX Diagnostics	4	-	4	4	4	-
Siemens Dimension	1	-	1	1	1	-
All Cut-off 100	6	-	6	6	6	-
Cut-off 300						
Alere iCup	1	-	1	1	1	-
Alere iScreen	2	-	2	2	2	-
Alere Triage	1	-	1	1	1	-
Alfa Scientific Instant-View	2	-	2	2	2	-
Beckman AU	9	-	9	9	9	-
BMC QuickTox Drug Screen	21	-	21	21	21	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
ImmTox	1	-	1	1	1	-
Indiko Plus	2	-	2	2	2	-
Lin-Zhi International	3	-	3	3	3	-
Microgenics DRI	4	-	4	4	4	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	3	-	3	3	3	-
Siemens EMIT II Plus	4	-	4	4	4	-
Synermed IR 500	1	-	1	1	1	-
USDiagnosics One Step Multi-Drug	1	-	1	1	1	-
All Cut-off 300	61	1	60	62	62	-
Cut-off 1000						
Microgenics DRI	1	-	1	1	1	-
All Cut-off 1000	1	-	1	1	1	-
Cut-off 2000						
Alere iCassette	2	-	2	2	2	-
Alere iCup	9	-	9	9	9	-
Alfa Scientific Instant-View	4	-	4	4	4	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	1	-	1	1	1	-
Germaine Laboratories AimScreen	3	-	3	3	3	-
Integrated E-Z Split Key Cup / II	1	-	1	1	1	-
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	1	-	1	1	1	-
All Cut-off 2000	29	-	29	29	28	1

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	81	79	2	80	2	78
Cut-off 100						
Alere iCassette	3	3	-	3	-	3
Alere iCup	9	9	-	9	-	9
Alere iScreen	2	2	-	2	-	2
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	8	8	-	8	-	8
Bio-Rad TOX/See	1	1	-	1	-	1
BMC QuickTox Drug Screen	22	22	-	22	-	22
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Lin-Zhi International	3	2	1	3	-	3
MEDTOX Diagnostics	3	3	-	3	-	3
Microgenics DRI	5	5	-	5	-	5
Roche Integra	3	3	-	3	-	3
Siemens EMIT II Plus	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 100	71	70	1	70	1	69
Cut-off 300						
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
All Cut-off 300	3	3	-	3	-	3

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	73	-	73	73	1	72
Cut-off 25						
Alere iCassette	2	-	2	2	-	2
Alere iCup	5	-	5	5	-	5
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	7	-	7	7	-	7
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	22	-	22	22	-	22
Germaine Laboratories AimScreen	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
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
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 25	64	-	64	64	-	64
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	14	1	13	14	13	1
Cut-off 300						
Alere iCassette	1	-	1	1	1	-
Alere iCup	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
MEDTOX Diagnostics	3	-	3	3	3	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	2	-	2	2	2	-
All Cut-off 300	11	1	10	11	10	1

Tramadol (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	3	-	3	3	-	3
Cut-off 200						
Beckman AU	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 200	3	-	3	3	-	3

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	21	-	21	21	-	21
Cut-off 300						
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 300	3	-	3	3	-	3
Cut-off 1000						
Alere iCassette	1	-	1	1	-	1
Alere iCup	4	-	4	4	-	4
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech AmediCheck	2	-	2	2	-	2
Bio-Rad TOX/See	1	-	1	1	-	1
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	14	-	14	14	-	14

Zolpidem (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 20						
Beckman AU	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1

Urine Amylase (U/L)

<u>Method</u>	<u>Specimen UCH-3</u>						<u>Specimen UCH-4</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	3	-	-	-	111	Not graded	3	-	-	-	267	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	<u>Specimen UCH-3</u>						<u>Specimen UCH-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	8.90	0.42	4.8	8.9	6.1 - 11.7	5	4.60	0.57	12.3	4.6	3.1 - 6.1

Urine Chloride (mmol/L)

<u>Method</u>	<u>Specimen UCH-3</u>						<u>Specimen UCH-4</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	3	-	-	-	69	Not graded	3	-	-	-	238	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	<u>Specimen UCH-3</u>						<u>Specimen UCH-4</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	72.65	6.09	8.4	73.2	60.2 - 85.1	10	197.30	15.17	7.7	200.1	163.7 - 230.9

Urine Glucose (mg/dL)

<u>Method</u>	<u>Specimen UCH-3</u>						<u>Specimen UCH-4</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	4	-	-	-	25	Not graded	4	-	-	-	270	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	<u>Specimen UCH-3</u>						<u>Specimen UCH-4</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	3	-	-	-	3.1	Not graded	3	-	-	-	9.0	Not graded

Urine Osmolality (mOsm/kg)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	372	Not graded	3	-	-	-	821	Not graded

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	16.9	Not graded	3	-	-	-	55.9	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	22.90	0.71	3.1	22.9	16.2 - 29.6	5	107.15	5.30	4.9	107.2	76.0 - 138.3

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	77.3	2.5	3.3	77	57 - 98	5	177.3	7.8	4.4	175	131 - 224

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	12.10	6.65	54.9	8.8	6.7 - 17.5	10	111.28	14.89	13.4	108.3	62.3 - 160.3

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	360	Not graded	4	-	-	-	664	Not graded

Urine Uric Acid (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	4.8	Not graded	2	-	-	-	8.8	Not graded

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