

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

2 • 0 • 1 • 7

Chemistry
2017 MLE-M2



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

Table of Contents

Evaluation Criteria.....	3	Insulin	91
Acetaminophen	83	Iron.....	26
Acetone	103	Lactate Dehydrogenase	62
Albumin	9	Lactate (Lactic Acid)	27
Alcohol, Serum	103	LDL Cholesterol, Calculated	75
Alkaline Phosphatase	52	LDL Cholesterol, Direct.....	76
Alpha-fetoprotein (AFP).....	65	LH	101
ALT (SGPT).....	49	Lipase	64
Ammonia	104	Lithium	84
Amylase (Serum).....	61	Magnesium	27
Apolipoprotein A1	88	Myoglobin	96
Apolipoprotein B	88	NT-proBNP	96
AST (SGOT).....	55	Parathyroid Hormone, Intact	92
Beta-2 Microglobulin.....	98	Phenobarbital.....	85
Bilirubin, Direct (CH Specimens)	12	Phenytoin.....	85
Bilirubin, Direct (NB Specimens)	89	Phosphorus.....	29
Bilirubin, Neonatal (Total).....	88	Potassium (CH Specimens).....	43
Bilirubin, Total.....	14	Potassium (IST Specimens)	4
Blood Gases.....	89	Progesterone	101
BNP	94	Prolactin.....	102
C-Peptide	92	Protein, Total.....	31
CA 125	98	PSA (PS Specimens).....	97
CA 15-3	98	PSA (TM Specimens)	99
CA 19-9	98	PSA, Free	99
CA 27/29	99	Salicylate	86
Calcium	17	Sex Hormone Binding Globulin (SHBG)	93
Calcium, Ionized (IST Specimens)	8	Sodium (CH Specimens)	45
Carbamazepine	83	Sodium (IST Specimens)	4
CEA (SC Specimens).....	100	T3, Free	67
CEA (TM Specimens).....	99	T3 Uptake (% Uptake)	66
Chloride (CH Specimens).....	39	tCO ₂ (IST Specimens).....	5
Chloride (IST Specimens)	5	Testosterone (SC Samples).....	102
Cholesterol, Total	72	Testosterone (SHB Samples)	93
CK-MB.....	94	Testosterone, Bioavailable.....	92
CO ₂ (CH Specimens).....	41	Testosterone, Free.....	93
Cortisol	65	Theophylline.....	86
Creatine Kinase.....	58	Thyroglobulin	99
Creatinine (CH Specimens).....	20	Thyroglobulin Antibody	104
Creatinine (IST Specimens)	8	Thyroid Peroxidase Antibody (TPO)	104
D-Dimer	95	Thyroxine, Free.....	68
DHEA-S.....	100	Thyroxine, Total T4	67
Digoxin	83	TIBC, Calculated.....	47
Estradiol	100	TIBC, Direct	47
Ferritin	100	Transferrin	102
Folate	101	Triglycerides.....	80
FSH	101	Triiodothyronine, Total T3	66
Gentamicin	84	Troponin I.....	97
GGT	60	TSH.....	69
Glucose, Whole Blood (WBG Specimens)	125	UIBC, Direct.....	48
Glucose, Serum (CH Specimens)	23	Urea Nitrogen (CH Specimens)	34
Glucose (IST Specimens).....	6	Urea Nitrogen (IST Specimens)	6
Glycohemoglobin (AFN Specimens)	91	Uric Acid	37
Glycohemoglobin (GH Specimens)	93	Urine Chemistry	127
HCG, Serum—Qualitative	70	Urine Drug Screen	104
HCG, Serum—Quantitative	71	Valproic Acid.....	87
Hematocrit.....	7	Vancomycin	87
Hemoglobin	7	Vitamin B12.....	102
HDL Cholesterol	77	Vitamin D (25-Hydroxy).....	92
Homocysteine.....	101		

EVALUATION CRITERIA

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

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

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-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	149.9	0.5	0.4	150	145 - 154	100	167.3	0.7	0.4	167	163 - 172
All i-STAT Instruments	98	149.9	0.5	0.4	150	145 - 154	100	167.3	0.7	0.4	167	163 - 172
i-STAT - moderate	10	149.5	0.7	0.5	149	145 - 154	10	167.4	0.8	0.5	167	163 - 172
i-STAT - waived	88	149.9	0.5	0.3	150	145 - 154	90	167.3	0.6	0.4	167	163 - 172

<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	88	145.5	0.6	0.4	145	141 - 150	88	168.3	0.6	0.4	168	164 - 173
All i-STAT Instruments	88	145.5	0.6	0.4	145	141 - 150	88	168.3	0.6	0.4	168	164 - 173
i-STAT - moderate	10	145.6	0.7	0.5	146	141 - 150	10	168.1	0.7	0.4	168	164 - 173
i-STAT - waived	78	145.5	0.6	0.4	145	141 - 150	78	168.4	0.6	0.4	168	164 - 173

<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	140.8	0.5	0.4	141	136 - 145
All i-STAT Instruments	88	140.8	0.5	0.4	141	136 - 145
i-STAT - moderate	10	140.8	0.6	0.4	141	136 - 145
i-STAT - waived	78	140.8	0.5	0.4	141	136 - 145

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	6.19	0.04	0.6	6.2	5.6 - 6.7	102	6.84	0.05	0.8	6.8	6.3 - 7.4
All i-STAT Instruments	101	6.19	0.04	0.6	6.2	5.6 - 6.7	102	6.84	0.05	0.8	6.8	6.3 - 7.4
i-STAT - moderate	11	6.17	0.05	0.8	6.2	5.6 - 6.7	11	6.83	0.05	0.7	6.8	6.3 - 7.4
i-STAT - waived	88	6.19	0.03	0.5	6.2	5.6 - 6.7	91	6.84	0.06	0.8	6.8	6.3 - 7.4

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	4.11	0.03	0.8	4.1	3.6 - 4.7	89	6.60	0.04	0.6	6.6	6.1 - 7.2
All i-STAT Instruments	88	4.11	0.03	0.8	4.1	3.6 - 4.7	89	6.60	0.04	0.6	6.6	6.1 - 7.2
i-STAT - moderate	11	4.13	0.06	1.6	4.1	3.6 - 4.7	11	6.59	0.05	0.8	6.6	6.0 - 7.1
i-STAT - waived	78	4.11	0.03	0.8	4.1	3.6 - 4.7	78	6.61	0.04	0.5	6.6	6.1 - 7.2

<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	3.80	0.01	0.0	3.8	3.3 - 4.3
All i-STAT Instruments	89	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - moderate	11	3.80	0.01	0.0	3.8	3.3 - 4.3
i-STAT - waived	78	3.80	0.01	0.0	3.8	3.3 - 4.3

Chloride (mmol/L)

Specimen IST-6							Specimen IST-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	105.0	0.5	0.5	105	99 - 111	99	107.7	0.7	0.6	108	102 - 114
All i-STAT Instruments	99	105.0	0.5	0.5	105	99 - 111	99	107.7	0.7	0.6	108	102 - 114
i-STAT - moderate	11	105.3	0.8	0.7	105	100 - 111	11	107.2	0.6	0.6	107	101 - 113
i-STAT - waived	89	105.0	0.5	0.5	105	99 - 111	88	107.7	0.7	0.6	108	102 - 114

Specimen IST-8							Specimen IST-9					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	80.5	0.7	0.8	81	76 - 85	86	116.8	0.7	0.6	117	110 - 123
All i-STAT Instruments	88	80.5	0.7	0.8	81	76 - 85	86	116.8	0.7	0.6	117	110 - 123
i-STAT - moderate	11	80.5	0.7	0.9	81	76 - 85	11	116.9	0.7	0.6	117	111 - 123
i-STAT - waived	77	80.5	0.7	0.8	81	76 - 85	75	116.8	0.7	0.6	117	110 - 123

Specimen IST-10						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	87	86.7	0.6	0.6	87	82 - 92
All i-STAT Instruments	87	86.7	0.6	0.6	87	82 - 92
i-STAT - moderate	11	86.5	0.5	0.6	87	82 - 91
i-STAT - waived	76	86.7	0.6	0.6	87	82 - 92

tCO₂ (mmol/L)

Specimen IST-6							Specimen IST-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	97	18.1	0.6	3.2	18	14 - 22	95	26.0	0.8	2.9	26	20 - 32
All i-STAT Instruments	97	18.1	0.6	3.2	18	14 - 22	95	26.0	0.8	2.9	26	20 - 32
i-STAT - moderate	10	18.1	0.6	3.1	18	14 - 22	10	25.6	0.8	3.3	26	20 - 31
i-STAT - waived	87	18.1	0.6	3.3	18	14 - 22	85	26.0	0.7	2.8	26	20 - 32

Specimen IST-8							Specimen IST-9					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	85	22.2	0.8	3.6	22	17 - 27	87	23.6	0.9	3.8	24	18 - 29
All i-STAT Instruments	85	22.2	0.8	3.6	22	17 - 27	87	23.6	0.9	3.8	24	18 - 29
i-STAT - moderate	10	21.9	0.9	4.0	22	17 - 27	10	23.7	1.1	4.5	24	18 - 29
i-STAT - waived	75	22.3	0.8	3.5	22	17 - 27	77	23.6	0.9	3.7	24	18 - 29

Specimen IST-10						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	83	26.7	0.8	2.9	27	21 - 32
All i-STAT Instruments	83	26.7	0.8	2.9	27	21 - 32
i-STAT - moderate	10	27.0	0.8	3.0	27	21 - 33
i-STAT - waived	75	26.5	0.9	3.2	27	21 - 32

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	99	22.5	0.6	2.6	23	20 - 25	101	18.1	0.5	2.7	18	16 - 21
All i-STAT Instruments	99	22.5	0.6	2.6	23	20 - 25	101	18.1	0.5	2.7	18	16 - 21
i-STAT - moderate	10	22.2	0.6	2.8	22	20 - 25	10	18.0	0.1	0.0	18	16 - 20
i-STAT - waived	89	22.6	0.6	2.6	23	20 - 25	91	18.1	0.5	2.8	18	16 - 21
	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	37.0	0.8	2.1	37	33 - 41	87	46.7	1.0	2.2	47	42 - 51
All i-STAT Instruments	87	37.0	0.8	2.1	37	33 - 41	87	46.7	1.0	2.2	47	42 - 51
i-STAT - moderate	10	36.7	0.7	1.8	37	33 - 41	10	46.3	0.9	2.0	46	42 - 51
i-STAT - waived	77	37.0	0.8	2.1	37	33 - 41	77	46.7	1.0	2.2	47	42 - 51
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	88	61.6	1.4	2.3	62	56 - 68						
All i-STAT Instruments	88	61.6	1.4	2.3	62	56 - 68						
i-STAT - moderate	10	61.6	1.3	2.1	62	56 - 68						
i-STAT - waived	78	61.6	1.5	2.4	62	56 - 68						

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	81.5	1.1	1.3	81	73 - 90	97	65.7	1.1	1.6	66	59 - 73
All i-STAT Instruments	100	81.5	1.1	1.3	81	73 - 90	97	65.7	1.1	1.6	66	59 - 73
i-STAT - moderate	10	81.4	1.1	1.3	81	73 - 90	10	65.6	1.3	1.9	66	59 - 73
i-STAT - waived	91	81.5	1.2	1.4	81	73 - 90	87	65.7	1.1	1.6	66	59 - 73
	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	122.9	1.2	1.0	123	110 - 136	88	231.9	2.8	1.2	232	208 - 256
All i-STAT Instruments	86	122.9	1.2	1.0	123	110 - 136	88	231.9	2.8	1.2	232	208 - 256
i-STAT - moderate	10	123.0	1.2	0.9	123	110 - 136	10	232.1	2.8	1.2	232	208 - 256
i-STAT - waived	76	122.9	1.2	1.0	123	110 - 136	78	231.8	2.8	1.2	232	208 - 256
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	88	140.2	1.3	0.9	140	126 - 155						
All i-STAT Instruments	88	140.2	1.3	0.9	140	126 - 155						
i-STAT - moderate	10	140.4	1.0	0.7	141	126 - 155						
i-STAT - waived	78	140.2	1.3	0.9	140	126 - 155						

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	17	28.4	0.7	2.5	28	26 - 31	17	37.5	0.7	1.9	37	35 - 40
All i-STAT Instruments	17	28.4	0.7	2.5	28	26 - 31	17	37.5	0.7	1.9	37	35 - 40
i-STAT - waived	15	28.5	0.6	2.2	28	26 - 31	15	37.6	0.7	2.0	37	35 - 40
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	35.6	0.5	1.5	36	33 - 38	17	30.0	0.5	1.8	30	28 - 32
All i-STAT Instruments	17	35.6	0.5	1.5	36	33 - 38	17	30.0	0.5	1.8	30	28 - 32
i-STAT - waived	15	35.7	0.5	1.4	36	33 - 38	15	30.0	0.6	2.1	30	28 - 32
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	25.6	0.5	2.0	26	24 - 28						
All i-STAT Instruments	17	25.6	0.5	2.0	26	24 - 28						
i-STAT - waived	15	25.7	0.5	2.0	26	24 - 28						

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	17	9.64	0.26	2.6	9.5	8.9 - 10.4	17	12.77	0.24	1.9	12.6	11.8 - 13.7
All i-STAT Instruments	17	9.64	0.26	2.6	9.5	8.9 - 10.4	17	12.77	0.24	1.9	12.6	11.8 - 13.7
i-STAT - waived	15	9.68	0.24	2.5	9.5	9.0 - 10.4	15	12.79	0.25	1.9	12.6	11.8 - 13.7
	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	12.09	0.16	1.3	12.2	11.2 - 13.0	17	10.20	0.16	1.6	10.2	9.4 - 11.0
All i-STAT Instruments	17	12.09	0.16	1.3	12.2	11.2 - 13.0	17	10.20	0.16	1.6	10.2	9.4 - 11.0
i-STAT - waived	15	12.10	0.15	1.3	12.2	11.2 - 13.0	15	10.20	0.19	1.9	10.2	9.4 - 11.0
	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	8.69	0.16	1.8	8.8	8.0 - 9.3						
All i-STAT Instruments	17	8.69	0.16	1.8	8.8	8.0 - 9.3						
i-STAT - waived	15	8.70	0.15	1.8	8.8	8.0 - 9.4						

Creatinine (mg/dL)

Specimen IST-6							Specimen IST-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	114	1.11	0.04	3.7	1.1	0.8 - 1.5	112	0.76	0.05	6.3	0.8	0.4 - 1.1
All i-STAT Instruments	114	1.11	0.04	3.7	1.1	0.8 - 1.5	112	0.76	0.05	6.3	0.8	0.4 - 1.1
i-STAT - moderate	12	1.13	0.05	4.0	1.1	0.8 - 1.5	12	0.76	0.05	6.8	0.8	0.4 - 1.1
i-STAT - waived	102	1.10	0.04	3.6	1.1	0.8 - 1.5	100	0.77	0.05	6.3	0.8	0.4 - 1.1
Specimen IST-8							Specimen IST-9					
All Method	89	1.61	0.05	3.2	1.6	1.3 - 2.0	89	2.55	0.09	3.5	2.5	2.1 - 3.0
All i-STAT Instruments	89	1.61	0.05	3.2	1.6	1.3 - 2.0	89	2.55	0.09	3.5	2.5	2.1 - 3.0
i-STAT - moderate	12	1.64	0.05	3.1	1.6	1.3 - 2.0	12	2.54	0.09	3.5	2.6	2.1 - 3.0
i-STAT - waived	77	1.61	0.05	3.1	1.6	1.3 - 2.0	77	2.56	0.09	3.6	2.5	2.1 - 3.0
Specimen IST-10												
All Method	88	5.94	0.20	3.4	6.0	5.0 - 6.9						
All i-STAT Instruments	88	5.94	0.20	3.4	6.0	5.0 - 6.9						
i-STAT - moderate	12	5.93	0.14	2.3	6.0	5.0 - 6.9						
i-STAT - waived	76	5.95	0.21	3.5	6.0	5.0 - 6.9						

Ionized Calcium (mmol/L)

Specimen IST-6							Specimen IST-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	0.773	0.007	1.0	0.77	0.75 - 0.80	92	0.894	0.008	0.9	0.90	0.86 - 0.92
All i-STAT Instruments	92	0.773	0.007	1.0	0.77	0.75 - 0.80	92	0.894	0.008	0.9	0.90	0.86 - 0.92
i-STAT - waived	83	0.773	0.008	1.0	0.77	0.75 - 0.80	83	0.894	0.008	0.9	0.89	0.86 - 0.92
Specimen IST-8							Specimen IST-9					
All Method	84	1.429	0.012	0.9	1.43	1.39 - 1.47	84	0.582	0.007	1.2	0.58	0.55 - 0.61
All i-STAT Instruments	84	1.429	0.012	0.9	1.43	1.39 - 1.47	84	0.582	0.007	1.2	0.58	0.55 - 0.61
i-STAT - waived	75	1.428	0.012	0.9	1.43	1.39 - 1.47	75	0.581	0.007	1.2	0.58	0.55 - 0.61
Specimen IST-10												
All Method	84	2.184	0.020	0.9	2.19	2.12 - 2.25						
All i-STAT Instruments	84	2.184	0.020	0.9	2.19	2.12 - 2.25						
i-STAT - waived	75	2.184	0.020	0.9	2.19	2.12 - 2.25						

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	272	3.69	0.48	12.9	3.9	3.3 - 4.1	271	1.95	0.15	7.8	2.0	1.7 - 2.2
All Bromocresol Green Reagents	192	3.98	0.15	3.9	3.9	3.5 - 4.4	192	1.99	0.16	7.8	2.0	1.7 - 2.2
All Bromocresol Purple Reagents	76	2.98	0.11	3.8	3.0	2.6 - 3.3	76	1.87	0.11	6.1	1.9	1.6 - 2.1
Abaxis Piccolo												
Abaxis Piccolo - waived	22	2.91	0.12	4.0	2.9	2.6 - 3.3	22	1.99	0.06	3.2	2.0	1.7 - 2.2
All Chemistry Instruments	30	2.92	0.11	3.6	2.9	2.6 - 3.3	30	1.99	0.06	3.1	2.0	1.7 - 2.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	3.91	0.11	2.8	3.9	3.5 - 4.4	31	2.07	0.06	2.8	2.1	1.8 - 2.3
Beckman AU												
Beckman AU systems	37	3.98	0.11	2.8	4.0	3.5 - 4.4	37	1.93	0.08	4.2	1.9	1.7 - 2.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	3.90	0.09	2.4	3.9	3.5 - 4.3	21	2.13	0.05	2.3	2.1	1.9 - 2.4
Roche Integra												
Roche Integra	18	4.20	0.11	2.6	4.2	3.7 - 4.7	18	2.10	0.07	3.3	2.1	1.8 - 2.4
Siemens Healthcare												
Siemens Dimension	38	3.01	0.09	2.8	3.0	2.7 - 3.4	38	1.78	0.06	3.4	1.8	1.6 - 2.0
All Chemistry Instruments	40	3.01	0.08	2.8	3.0	2.7 - 3.4	39	1.79	0.05	2.9	1.8	1.6 - 2.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	3.91	0.14	3.6	3.9	3.5 - 4.4	14	2.11	0.08	3.9	2.1	1.8 - 2.4
VITROS												
VITROS 250,350,500,700,750,950	36	3.92	0.10	2.5	3.9	3.5 - 4.4	37	1.76	0.06	3.3	1.8	1.5 - 2.0
All Chemistry Instruments	43	3.93	0.10	2.6	3.9	3.5 - 4.4	44	1.77	0.06	3.2	1.8	1.5 - 2.0

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	252	2.42	0.21	8.9	2.5	2.1 - 2.7	252	3.55	0.41	11.5	3.7	3.1 - 4.0
All Bromocresol Green Reagents	192	2.50	0.16	6.3	2.5	2.2 - 2.8	191	3.75	0.15	3.9	3.7	3.3 - 4.2
All Bromocresol Purple Reagents	56	2.13	0.08	3.7	2.1	1.9 - 2.4	56	2.86	0.09	3.1	2.9	2.5 - 3.2
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.2	1.9 - 2.5	3	-	-	-	2.8	2.5 - 3.2
All Chemistry Instruments	10	2.22	0.04	1.9	2.2	1.9 - 2.5	10	2.82	0.08	2.8	2.8	2.5 - 3.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	2.55	0.06	2.4	2.5	2.2 - 2.9	31	3.69	0.07	2.0	3.7	3.3 - 4.1
Beckman AU												
Beckman AU systems	37	2.46	0.09	3.5	2.5	2.2 - 2.8	37	3.73	0.12	3.3	3.7	3.3 - 4.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	2.60	0.06	2.3	2.6	2.3 - 2.9	20	3.70	0.07	2.0	3.7	3.3 - 4.1
Roche Integra												
Roche Integra	18	2.67	0.08	2.9	2.7	2.4 - 3.0	18	3.96	0.11	2.9	4.0	3.5 - 4.4
Siemens Healthcare												
Siemens Dimension	38	2.09	0.06	2.9	2.1	1.8 - 2.4	38	2.85	0.08	2.7	2.9	2.5 - 3.2
All Chemistry Instruments	40	2.10	0.06	3.0	2.1	1.8 - 2.4	40	2.85	0.08	2.6	2.9	2.5 - 3.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	2.58	0.11	4.1	2.6	2.3 - 2.9	14	3.70	0.12	3.4	3.7	3.3 - 4.1
VITROS												
VITROS 250,350,500,700,750,950	37	2.29	0.08	3.5	2.3	2.0 - 2.6	38	3.72	0.13	3.4	3.7	3.3 - 4.1
All Chemistry Instruments	44	2.29	0.08	3.4	2.3	2.0 - 2.6	44	3.72	0.13	3.4	3.7	3.3 - 4.1

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	251	4.20	0.53	12.7	4.4	3.7 - 4.7
All Bromocresol Green Reagents	191	4.48	0.19	4.3	4.5	4.0 - 5.0
All Bromocresol Purple Reagents	56	3.29	0.13	3.8	3.3	2.9 - 3.7
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.1	2.8 - 3.5
All Chemistry Instruments	10	3.17	0.13	3.9	3.1	2.8 - 3.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	31	4.35	0.10	2.3	4.3	3.9 - 4.8
Beckman AU						
Beckman AU systems	37	4.42	0.13	3.0	4.4	3.9 - 4.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	4.29	0.09	2.0	4.3	3.8 - 4.8
Roche Integra						
Roche Integra	18	4.67	0.11	2.4	4.7	4.2 - 5.2
Siemens Healthcare						
Siemens Dimension	37	3.32	0.08	2.5	3.3	2.9 - 3.7
All Chemistry Instruments	39	3.32	0.08	2.5	3.3	2.9 - 3.7
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	4.31	0.15	3.5	4.3	3.8 - 4.8
VITROS						
VITROS 250,350,500,700,750,950	38	4.63	0.18	3.8	4.6	4.1 - 5.1
All Chemistry Instruments	45	4.62	0.18	3.8	4.6	4.1 - 5.1

Bilirubin, Direct (mg/dL)

Specimen CH-6							Specimen CH-7					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	169	1.14	0.35	30.9	1.2	0.4 - 1.9	166	0.12	0.06	54.6	0.1	0.0 - 0.3
All Alfa Wassermann Reagents	20	1.47	0.11	7.7	1.5	1.2 - 1.7	21	0.19	0.05	25.7	0.2	0.0 - 0.3
All Roche Integra/c111/c301/c501 Reagents	20	0.88	0.06	7.3	0.9	0.7 - 1.1	20	0.12	0.04	34.2	0.1	0.0 - 0.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	1.47	0.11	7.7	1.5	1.2 - 1.7	21	0.19	0.05	25.7	0.2	0.0 - 0.3
Beckman AU												
Beckman AU systems	29	1.24	0.16	12.6	1.3	0.9 - 1.6	28	0.10	0.01	0.0	0.1	0.0 - 0.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	1.40	0.26	18.7	1.4	0.8 - 2.0	13	0.12	0.04	35.6	0.1	0.0 - 0.3
Roche Integra												
Roche Integra	13	0.91	0.05	5.4	0.9	0.8 - 1.1	13	0.10	0.01	0.0	0.1	0.0 - 0.2
Siemens Healthcare												
Siemens Dimension	29	0.86	0.08	9.6	0.9	0.6 - 1.1	29	0.08	0.04	46.4	0.1	0.0 - 0.2
All Chemistry Instruments	31	0.86	0.08	9.8	0.9	0.6 - 1.1	31	0.08	0.04	44.6	0.1	0.0 - 0.2
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	22	0.92	0.46	50.3	1.1	0.0 - 1.9	22	0.16	0.14	88.2	0.2	0.0 - 0.5
All Chemistry Instruments	25	0.96	0.45	46.7	1.1	0.0 - 1.9	25	0.15	0.13	87.3	0.2	0.0 - 0.5

Specimen CH-8							Specimen CH-9					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	170	0.43	0.17	40.7	0.5	0.0 - 0.8	168	1.03	0.33	32.0	1.1	0.3 - 1.7
All Alfa Wassermann Reagents	21	0.59	0.06	9.8	0.6	0.4 - 0.8	21	1.39	0.13	9.1	1.4	1.1 - 1.7
All Roche Integra/c111/c301/c501 Reagents	19	0.30	0.01	0.0	0.3	0.2 - 0.4	20	0.77	0.05	6.4	0.8	0.6 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	0.59	0.06	9.8	0.6	0.4 - 0.8	21	1.39	0.13	9.1	1.4	1.1 - 1.7
Beckman AU												
Beckman AU systems	29	0.47	0.06	11.9	0.5	0.3 - 0.6	29	1.12	0.15	13.2	1.2	0.8 - 1.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	13	0.48	0.11	23.6	0.5	0.2 - 0.8	13	1.26	0.23	18.5	1.3	0.7 - 1.8
Roche Integra												
Roche Integra	12	0.30	0.01	0.0	0.3	0.2 - 0.4	13	0.78	0.04	4.8	0.8	0.7 - 0.9
Siemens Healthcare												
Siemens Dimension	29	0.28	0.06	20.0	0.3	0.1 - 0.4	29	0.77	0.08	10.0	0.8	0.6 - 1.0
All Chemistry Instruments	31	0.28	0.06	21.4	0.3	0.1 - 0.5	31	0.77	0.08	10.3	0.8	0.6 - 1.0
VITROS-BuBc and Bc												
VITROS 250,350,500,700,750,950	23	0.42	0.30	70.8	0.5	0.0 - 1.1	21	0.83	0.43	52.3	1.0	0.0 - 1.7
All Chemistry Instruments	26	0.43	0.28	65.3	0.5	0.0 - 1.0	24	0.86	0.41	48.1	1.0	0.0 - 1.7

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	169	1.39	0.41	29.3	1.4	0.5 - 2.3
All Alfa Wassermann Reagents	21	1.87	0.20	10.9	1.9	1.4 - 2.3
All Roche Integra/c111/c301/c501 Reagents	20	1.07	0.09	8.1	1.1	0.8 - 1.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	1.87	0.20	10.9	1.9	1.4 - 2.3
Beckman AU						
Beckman AU systems	28	1.53	0.16	10.5	1.6	1.2 - 1.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	13	1.72	0.28	16.5	1.7	1.1 - 2.3
Roche Integra						
Roche Integra	13	1.12	0.06	5.0	1.1	1.0 - 1.3
Siemens Healthcare						
Siemens Dimension	29	1.07	0.10	8.9	1.1	0.8 - 1.3
All Chemistry Instruments	31	1.07	0.10	9.4	1.1	0.8 - 1.3
VITROS-BuBc and Bc						
VITROS 250,350,500,700,750,950	22	1.12	0.47	42.0	1.3	0.1 - 2.1
All Chemistry Instruments	25	1.17	0.47	39.9	1.4	0.2 - 2.2

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	273	3.73	0.34	9.1	3.7	2.9 - 4.5	271	0.27	0.09	32.2	0.3	0.0 - 0.7
All Alfa Wassermann Reagents	37	4.17	0.23	5.4	4.2	3.3 - 5.1	37	0.32	0.04	12.5	0.3	0.0 - 0.8
All Horiba Pentra Reagents	21	3.74	0.32	8.5	3.8	2.9 - 4.5	21	0.24	0.07	31.1	0.2	0.0 - 0.7
All Roche T. bili Special Reagents	24	3.39	0.19	5.6	3.4	2.7 - 4.1	24	0.20	0.01	0.0	0.2	0.0 - 0.6
All Vital Diagnostics Reagents	15	3.54	0.41	11.6	3.5	2.8 - 4.3	14	0.24	0.09	38.6	0.2	0.0 - 0.7
Abaxis Piccolo												
Abaxis Piccolo - waived	22	3.56	0.23	6.5	3.6	2.8 - 4.3	22	0.42	0.04	10.1	0.4	0.0 - 0.9
All Chemistry Instruments	30	3.52	0.24	6.8	3.5	2.8 - 4.3	30	0.41	0.05	12.8	0.4	0.0 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	36	4.17	0.23	5.5	4.2	3.3 - 5.1	36	0.32	0.04	12.6	0.3	0.0 - 0.8
Beckman AU												
Beckman AU systems	35	3.84	0.14	3.6	3.8	3.0 - 4.7	33	0.30	0.01	0.0	0.3	0.0 - 0.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	3.74	0.32	8.5	3.8	2.9 - 4.5	21	0.24	0.07	31.1	0.2	0.0 - 0.7
Roche Integra-T. bili Gen.3												
Roche Integra	11	3.29	0.16	5.0	3.3	2.6 - 4.0	11	0.20	0.01	0.0	0.2	0.0 - 0.6
All Chemistry Instruments	13	3.33	0.18	5.4	3.4	2.6 - 4.0	13	0.20	0.01	0.0	0.2	0.0 - 0.6
Siemens Healthcare												
Siemens Dimension	37	3.69	0.18	4.8	3.7	2.9 - 4.5	37	0.21	0.04	20.8	0.2	0.0 - 0.7
All Chemistry Instruments	41	3.64	0.26	7.1	3.7	2.9 - 4.4	39	0.21	0.04	20.3	0.2	0.0 - 0.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	3.46	0.27	7.7	3.5	2.7 - 4.2	13	0.22	0.06	26.9	0.2	0.0 - 0.7
VITROS - TBIL												
VITROS 250,350,500,700,750,950	36	3.84	0.22	5.7	3.8	3.0 - 4.7	36	0.25	0.08	32.0	0.3	0.0 - 0.7
All Chemistry Instruments	43	3.84	0.22	5.7	3.8	3.0 - 4.7	43	0.24	0.09	36.6	0.2	0.0 - 0.7

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	251	1.14	0.14	12.3	1.1	0.7 - 1.6	251	3.32	0.30	9.1	3.3	2.6 - 4.0
All Alfa Wassermann Reagents	37	1.31	0.07	5.6	1.3	0.9 - 1.8	37	3.73	0.19	5.1	3.8	2.9 - 4.5
All Horiba Pentra Reagents	21	1.10	0.12	11.4	1.1	0.6 - 1.5	21	3.30	0.29	8.7	3.4	2.6 - 4.0
All Roche T. bili Special Reagents	24	1.00	0.05	4.7	1.0	0.5 - 1.4	24	3.00	0.16	5.2	3.0	2.4 - 3.6
All Vital Diagnostics Reagents	14	1.00	0.10	9.6	1.0	0.6 - 1.4	14	3.06	0.27	8.7	3.1	2.4 - 3.7
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	1.1	0.7 - 1.6	3	-	-	-	3.1	2.4 - 3.7
All Chemistry Instruments	10	1.14	0.07	6.1	1.1	0.7 - 1.6	10	3.07	0.09	3.1	3.1	2.4 - 3.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	36	1.31	0.07	5.6	1.3	0.9 - 1.8	36	3.73	0.19	5.1	3.8	2.9 - 4.5
Beckman AU												
Beckman AU systems	35	1.23	0.06	5.1	1.2	0.8 - 1.7	35	3.44	0.13	3.8	3.4	2.7 - 4.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	1.10	0.12	11.4	1.1	0.6 - 1.5	21	3.30	0.29	8.7	3.4	2.6 - 4.0
Roche Integra-T. bili Gen.3												
Roche Integra	11	0.97	0.05	4.8	1.0	0.5 - 1.4	11	2.93	0.13	4.6	3.0	2.3 - 3.6
All Chemistry Instruments	13	0.98	0.06	5.6	1.0	0.5 - 1.4	13	2.95	0.15	4.9	3.0	2.3 - 3.6
Siemens Healthcare												
Siemens Dimension	39	1.06	0.10	9.7	1.1	0.6 - 1.5	37	3.29	0.18	5.6	3.3	2.6 - 4.0
All Chemistry Instruments	41	1.06	0.10	9.9	1.1	0.6 - 1.5	40	3.26	0.23	7.0	3.3	2.6 - 4.0
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	1.00	0.10	9.6	1.0	0.6 - 1.4	13	3.10	0.22	7.1	3.1	2.4 - 3.8
VITROS - TBIL												
VITROS 250,350,500,700,750,950	36	1.20	0.08	6.9	1.2	0.8 - 1.6	36	3.39	0.16	4.6	3.4	2.7 - 4.1
All Chemistry Instruments	43	1.18	0.09	8.0	1.2	0.7 - 1.6	43	3.38	0.15	4.5	3.4	2.7 - 4.1

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	250	4.62	0.40	8.7	4.6	3.6 - 5.6
All Alfa Wassermann Reagents	37	5.17	0.28	5.5	5.3	4.1 - 6.3
All Horiba Pentra Reagents	21	4.61	0.38	8.3	4.7	3.6 - 5.6
All Roche T. bili Special Reagents	24	4.21	0.23	5.5	4.2	3.3 - 5.1
All Vital Diagnostics Reagents	15	4.31	0.46	10.8	4.4	3.4 - 5.2
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	4.4	3.3 - 5.1
All Chemistry Instruments	10	4.24	0.17	4.0	4.3	3.3 - 5.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	36	5.16	0.29	5.6	5.3	4.1 - 6.2
Beckman AU						
Beckman AU systems	35	4.73	0.19	4.0	4.8	3.7 - 5.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	4.61	0.38	8.3	4.7	3.6 - 5.6
Roche Integra-T. bili Gen.3						
Roche Integra	11	4.08	0.19	4.8	4.1	3.2 - 4.9
All Chemistry Instruments	13	4.13	0.22	5.3	4.1	3.3 - 5.0
Siemens Healthcare						
Siemens Dimension	37	4.61	0.25	5.4	4.6	3.6 - 5.6
All Chemistry Instruments	39	4.59	0.27	5.9	4.6	3.6 - 5.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	4.41	0.30	6.8	4.4	3.5 - 5.3
VITROS - TBIL						
VITROS 250,350,500,700,750,950	36	4.67	0.25	5.4	4.6	3.7 - 5.7
All Chemistry Instruments	43	4.66	0.26	5.6	4.6	3.7 - 5.6

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	271	12.20	0.32	2.6	12.2	11.2 - 13.3	275	7.11	0.24	3.4	7.1	6.1 - 8.2
All Arsenazo Methods	141	12.11	0.30	2.5	12.1	11.1 - 13.2	143	7.11	0.28	3.9	7.1	6.1 - 8.2
All CPC Methods	124	12.32	0.31	2.5	12.3	11.3 - 13.4	127	7.10	0.19	2.7	7.1	6.0 - 8.1
Abaxis Piccolo												
Abaxis Piccolo - waived	22	12.17	0.21	1.7	12.2	11.1 - 13.2	22	7.20	0.21	2.9	7.2	6.1 - 8.2
All Chemistry Instruments	28	12.17	0.23	1.9	12.2	11.1 - 13.2	29	7.20	0.23	3.2	7.2	6.2 - 8.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	38	12.07	0.31	2.6	12.0	11.0 - 13.1	38	7.38	0.19	2.6	7.4	6.3 - 8.4
Beckman AU												
Beckman AU systems	38	12.31	0.24	2.0	12.3	11.3 - 13.4	37	7.15	0.13	1.8	7.2	6.1 - 8.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	12.57	0.40	3.2	12.5	11.5 - 13.6	19	6.97	0.19	2.8	7.0	5.9 - 8.0
Roche Integra												
Roche Integra	18	12.48	0.31	2.5	12.5	11.4 - 13.5	18	7.23	0.21	2.9	7.3	6.2 - 8.3
Siemens Healthcare												
Siemens Dimension	39	12.17	0.34	2.8	12.2	11.1 - 13.2	39	7.03	0.17	2.4	7.0	6.0 - 8.1
All Chemistry Instruments	42	12.16	0.33	2.7	12.2	11.1 - 13.2	42	7.02	0.17	2.4	7.0	6.0 - 8.1
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	11.96	0.27	2.3	12.0	10.9 - 13.0	14	6.83	0.18	2.6	6.8	5.8 - 7.9
VITROS												
VITROS 250,350,500,700,750,950	37	12.19	0.25	2.0	12.2	11.1 - 13.2	37	6.98	0.17	2.4	7.0	5.9 - 8.0
All Chemistry Instruments	44	12.19	0.27	2.2	12.2	11.1 - 13.2	44	6.99	0.17	2.4	7.0	5.9 - 8.0

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	254	8.42	0.24	2.8	8.4	7.4 - 9.5	252	11.62	0.30	2.6	11.6	10.6 - 12.7
All Arsenazo Methods	122	8.44	0.26	3.1	8.4	7.4 - 9.5	122	11.59	0.33	2.8	11.6	10.5 - 12.6
All CPC Methods	126	8.40	0.22	2.6	8.4	7.4 - 9.5	126	11.65	0.30	2.6	11.7	10.6 - 12.7
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	8.5	7.4 - 9.5	3	-	-	-	11.7	10.5 - 12.6
All Chemistry Instruments	9	-	-	-	8.5	7.4 - 9.5	9	-	-	-	11.7	10.7 - 12.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	38	8.64	0.20	2.3	8.7	7.6 - 9.7	38	11.67	0.29	2.5	11.7	10.6 - 12.7
Beckman AU												
Beckman AU systems	37	8.46	0.15	1.8	8.5	7.4 - 9.5	38	11.64	0.24	2.1	11.7	10.6 - 12.7
Horiba ABX Pentra												
Horiba ABX Pentra 400	19	8.46	0.23	2.8	8.4	7.4 - 9.5	19	11.88	0.37	3.1	11.8	10.8 - 12.9
Roche Integra												
Roche Integra	18	8.54	0.20	2.4	8.6	7.5 - 9.6	18	11.82	0.27	2.3	11.9	10.8 - 12.9
Siemens Healthcare												
Siemens Dimension	39	8.24	0.20	2.4	8.2	7.2 - 9.3	39	11.48	0.28	2.4	11.5	10.4 - 12.5
All Chemistry Instruments	42	8.24	0.19	2.3	8.2	7.2 - 9.3	42	11.47	0.27	2.4	11.5	10.4 - 12.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	8.21	0.16	2.0	8.2	7.2 - 9.3	14	11.39	0.26	2.3	11.4	10.3 - 12.4
VITROS												
VITROS 250,350,500,700,750,950	37	8.41	0.19	2.2	8.4	7.4 - 9.5	37	11.64	0.26	2.2	11.6	10.6 - 12.7
All Chemistry Instruments	44	8.41	0.19	2.2	8.4	7.4 - 9.5	44	11.64	0.26	2.2	11.6	10.6 - 12.7

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	252	13.50	0.37	2.8	13.5	12.5 - 14.6
All Arsenazo Methods	120	13.36	0.32	2.4	13.4	12.3 - 14.4
All CPC Methods	124	13.65	0.34	2.5	13.6	12.6 - 14.7
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	13.1	12.3 - 14.4
All Chemistry Instruments	9	-	-	-	13.1	12.4 - 14.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	37	13.41	0.24	1.8	13.4	12.4 - 14.5
Beckman AU						
Beckman AU systems	38	13.61	0.28	2.1	13.6	12.6 - 14.7
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	13.88	0.47	3.4	13.8	12.8 - 14.9
Roche Integra						
Roche Integra	18	13.82	0.35	2.6	13.8	12.8 - 14.9
Siemens Healthcare						
Siemens Dimension	39	13.52	0.39	2.9	13.5	12.5 - 14.6
All Chemistry Instruments	42	13.51	0.38	2.8	13.5	12.5 - 14.6
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	13.27	0.34	2.6	13.2	12.2 - 14.3
VITROS						
VITROS 250,350,500,700,750,950	37	13.39	0.29	2.2	13.4	12.3 - 14.4
All Chemistry Instruments	44	13.38	0.29	2.2	13.4	12.3 - 14.4

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	273	4.19	0.48	11.4	4.3	3.5 - 4.9	271	0.53	0.09	16.1	0.5	0.2 - 0.9
All Alfa Wassermann Reagents	38	4.27	0.16	3.7	4.3	3.6 - 5.0	38	0.64	0.06	10.0	0.7	0.3 - 1.0
All Roche Integra/c111/c301/c501 Reagents	27	4.20	0.24	5.6	4.1	3.5 - 4.9	27	0.52	0.06	11.1	0.5	0.2 - 0.9
All VITROS Reagents	44	3.21	0.14	4.2	3.3	2.7 - 3.7	45	0.48	0.04	7.6	0.5	0.1 - 0.8
Abaxis Piccolo												
Abaxis Piccolo - waived	22	4.48	0.17	3.9	4.5	3.8 - 5.2	22	0.63	0.12	19.2	0.6	0.3 - 1.0
All Chemistry Instruments	29	4.48	0.16	3.5	4.5	3.8 - 5.2	29	0.63	0.11	17.0	0.6	0.3 - 1.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	4.27	0.16	3.7	4.3	3.6 - 5.0	37	0.65	0.06	10.1	0.7	0.3 - 1.0
Beckman AU												
Beckman AU systems	38	4.40	0.12	2.7	4.4	3.7 - 5.1	38	0.48	0.05	9.9	0.5	0.1 - 0.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	4.25	0.14	3.4	4.3	3.6 - 4.9	21	0.47	0.05	9.8	0.5	0.1 - 0.8
Roche Integra												
Roche Integra	18	4.08	0.14	3.3	4.1	3.4 - 4.7	18	0.51	0.03	6.3	0.5	0.2 - 0.9
Siemens Healthcare												
Siemens Dimension	38	4.57	0.12	2.6	4.6	3.8 - 5.3	38	0.49	0.05	10.9	0.5	0.1 - 0.8
All Chemistry Instruments	41	4.58	0.12	2.6	4.6	3.8 - 5.3	41	0.48	0.06	12.8	0.5	0.1 - 0.8
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	4.14	0.13	3.2	4.1	3.5 - 4.8	14	0.58	0.04	7.4	0.6	0.2 - 0.9
VITROS - CREA												
VITROS 250,350,500,700,750,950	26	3.22	0.14	4.4	3.3	2.7 - 3.7	27	0.48	0.04	8.2	0.5	0.1 - 0.8
All Chemistry Instruments	33	3.20	0.14	4.2	3.2	2.7 - 3.7	34	0.49	0.04	7.4	0.5	0.1 - 0.8

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	255	1.47	0.13	8.7	1.5	1.1 - 1.8	254	3.74	0.41	11.0	3.9	3.1 - 4.4
All Alfa Wassermann Reagents	38	1.60	0.07	4.5	1.6	1.2 - 1.9	38	3.86	0.14	3.7	3.9	3.2 - 4.5
All Roche Integra/c111/c301/c501 Reagents	27	1.48	0.07	5.0	1.5	1.1 - 1.8	27	3.76	0.21	5.6	3.7	3.1 - 4.4
All VITROS Reagents	45	1.25	0.05	4.0	1.3	0.9 - 1.6	45	2.95	0.13	4.4	3.0	2.5 - 3.4
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	1.5	1.1 - 1.8	3	-	-	-	4.1	3.1 - 4.4
All Chemistry Instruments	9	-	-	-	1.6	1.2 - 1.9	9	-	-	-	3.9	3.4 - 4.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	37	1.60	0.07	4.4	1.6	1.3 - 1.9	37	3.86	0.14	3.7	3.9	3.2 - 4.5
Beckman AU												
Beckman AU systems	38	1.48	0.05	3.2	1.5	1.1 - 1.8	38	3.89	0.12	3.0	3.9	3.3 - 4.5
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	1.44	0.06	4.1	1.4	1.1 - 1.8	21	3.79	0.17	4.4	3.8	3.2 - 4.4
Roche Integra												
Roche Integra	18	1.44	0.05	3.5	1.4	1.1 - 1.8	18	3.66	0.14	3.9	3.7	3.1 - 4.3
Siemens Healthcare												
Siemens Dimension	38	1.53	0.07	4.3	1.5	1.2 - 1.9	36	4.05	0.09	2.2	4.1	3.4 - 4.7
All Chemistry Instruments	41	1.52	0.07	4.3	1.5	1.2 - 1.9	40	4.07	0.11	2.8	4.1	3.4 - 4.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	1.50	0.06	3.7	1.5	1.2 - 1.8	14	3.76	0.12	3.1	3.8	3.1 - 4.4
VITROS - CREA												
VITROS 250,350,500,700,750,950	27	1.26	0.05	4.0	1.3	0.9 - 1.6	27	2.96	0.12	4.2	3.0	2.5 - 3.5
All Chemistry Instruments	34	1.25	0.05	4.1	1.3	0.9 - 1.6	34	2.94	0.13	4.3	3.0	2.4 - 3.4

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	255	5.01	0.69	13.7	5.2	4.2 - 5.8
All Alfa Wassermann Reagents	38	5.16	0.19	3.7	5.1	4.3 - 6.0
All Roche Integra/c111/c301/c501 Reagents	27	5.05	0.33	6.5	5.0	4.2 - 5.9
All VITROS Reagents	45	3.70	0.14	3.8	3.7	3.1 - 4.3
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	5.4	4.2 - 5.8
All Chemistry Instruments	9	-	-	-	5.4	4.6 - 6.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	37	5.16	0.19	3.7	5.1	4.3 - 6.0
Beckman AU						
Beckman AU systems	37	5.31	0.13	2.4	5.3	4.5 - 6.2
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	5.18	0.21	4.1	5.2	4.3 - 6.0
Roche Integra						
Roche Integra	18	4.88	0.19	3.8	4.9	4.1 - 5.7
Siemens Healthcare						
Siemens Dimension	37	5.60	0.13	2.3	5.6	4.7 - 6.5
All Chemistry Instruments	40	5.61	0.13	2.4	5.6	4.7 - 6.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	5.06	0.18	3.6	5.0	4.3 - 5.9
VITROS - CREA						
VITROS 250,350,500,700,750,950	27	3.72	0.13	3.6	3.8	3.1 - 4.3
All Chemistry Instruments	34	3.69	0.14	3.9	3.7	3.1 - 4.3

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	290	229.0	9.6	4.2	228	206 - 252	287	55.7	3.4	6.2	55	49 - 62
All Alfa Wassermann Reagents	41	240.7	6.3	2.6	240	216 - 265	41	60.8	1.7	2.8	61	54 - 67
All Horiba Pentra Reagents	21	233.1	6.8	2.9	234	209 - 257	21	56.1	1.9	3.3	56	50 - 63
All Roche Integra/c111/c301/c501 Reagents	27	227.3	5.7	2.5	226	204 - 251	27	54.8	1.1	2.0	55	48 - 61
All Vital Diagnostics Reagents	15	234.3	13.5	5.7	240	210 - 258	14	59.2	2.0	3.5	60	53 - 66
Abaxis Piccolo												
Abaxis Piccolo - waived	22	219.7	2.2	1.0	219	197 - 242	22	55.0	1.3	2.3	55	49 - 62
All Chemistry Instruments	29	220.2	2.8	1.3	220	198 - 243	28	55.0	1.2	2.2	55	49 - 61
Alere Cholestech LDX												
All Chemistry Instruments	10	229.5	11.9	5.2	230	206 - 253	10	51.4	2.1	4.0	50	45 - 58
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	40	240.9	6.2	2.6	241	216 - 265	40	60.9	1.7	2.8	61	54 - 67
Beckman AU												
Beckman AU systems	38	229.5	5.1	2.2	230	206 - 253	38	55.1	1.6	2.9	55	49 - 62
All Chemistry Instruments	39	229.3	5.3	2.3	230	206 - 253	38	55.1	1.6	2.9	55	49 - 62
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	233.1	6.8	2.9	234	209 - 257	21	56.1	1.9	3.3	56	50 - 63
Roche Integra												
Roche Integra	18	226.3	4.5	2.0	226	203 - 249	18	54.7	1.0	1.9	55	48 - 61
Siemens Healthcare												
Siemens Dimension	38	230.9	5.7	2.5	231	207 - 254	38	56.8	2.1	3.7	57	50 - 63
All Chemistry Instruments	41	230.3	5.9	2.5	230	207 - 254	41	56.6	2.2	3.9	57	50 - 63
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	235.7	12.8	5.4	240	212 - 260	14	59.2	2.0	3.5	60	53 - 66
VITROS												
VITROS 250,350,500,700,750,950	36	220.0	4.4	2.0	221	198 - 242	36	51.6	1.9	3.7	51	45 - 58
All Chemistry Instruments	43	219.7	4.4	2.0	220	197 - 242	43	51.6	1.8	3.5	51	45 - 58

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	258	99.2	5.3	5.4	99	89 - 110	259	208.2	9.2	4.4	208	187 - 230
All Alfa Wassermann Reagents	40	106.0	3.0	2.9	107	95 - 117	40	217.9	5.3	2.4	218	196 - 240
All Horiba Pentra Reagents	21	100.0	3.5	3.5	100	90 - 110	21	211.1	7.4	3.5	212	190 - 233
All Roche Integra/c111/c301/c501 Reagents	27	98.4	1.9	2.0	98	88 - 109	27	206.7	5.4	2.6	206	186 - 228
All Vital Diagnostics Reagents	14	105.9	3.6	3.4	107	95 - 117	14	219.1	7.0	3.2	218	197 - 242
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	97	89 - 110	3	-	-	-	200	187 - 230
All Chemistry Instruments	9	-	-	-	97	87 - 107	9	-	-	-	200	180 - 221
Alere Cholestech LDX												
All Chemistry Instruments	2	-	-	-	92	82 - 102	2	-	-	-	199	178 - 219
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	39	106.1	3.0	2.8	107	95 - 117	39	218.1	5.2	2.4	218	196 - 240
Beckman AU												
Beckman AU systems	38	98.8	2.5	2.5	99	88 - 109	37	208.2	5.2	2.5	209	187 - 230
All Chemistry Instruments	39	98.7	2.7	2.7	98	88 - 109	38	208.0	5.3	2.5	209	187 - 229
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	100.0	3.5	3.5	100	90 - 110	21	211.1	7.4	3.5	212	190 - 233
Roche Integra												
Roche Integra	18	98.2	1.6	1.6	98	88 - 108	18	206.3	4.9	2.4	205	185 - 227
Siemens Healthcare												
Siemens Dimension	37	100.2	2.8	2.8	100	90 - 111	38	208.8	5.0	2.4	209	187 - 230
All Chemistry Instruments	40	99.9	2.9	2.9	100	89 - 110	41	208.3	5.1	2.4	209	187 - 230
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	105.9	3.6	3.4	107	95 - 117	14	219.1	7.0	3.2	218	197 - 242
VITROS												
VITROS 250,350,500,700,750,950	35	92.0	1.9	2.1	92	82 - 102	36	198.3	4.2	2.1	198	178 - 219
All Chemistry Instruments	43	92.1	2.3	2.5	92	82 - 102	42	198.0	4.2	2.1	197	178 - 218

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	256	275.3	10.1	3.7	274	247 - 303
All Alfa Wassermann Reagents	41	285.9	7.5	2.6	285	257 - 315
All Horiba Pentra Reagents	21	279.7	8.5	3.1	280	251 - 308
All Roche Integra/c111/c301/c501 Reagents	27	271.0	7.2	2.7	271	243 - 299
All Vital Diagnostics Reagents	14	285.9	17.0	5.9	289	257 - 315
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	262	247 - 303
All Chemistry Instruments	9	-	-	-	262	237 - 290
Alere Cholestech LDX						
All Chemistry Instruments	2	-	-	-	267	239 - 294
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	40	286.1	7.5	2.6	286	257 - 315
Beckman AU						
Beckman AU systems	38	273.7	6.1	2.2	274	246 - 302
All Chemistry Instruments	39	273.6	6.1	2.2	273	246 - 301
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	279.7	8.5	3.1	280	251 - 308
Roche Integra						
Roche Integra	18	269.0	6.0	2.2	268	242 - 296
Siemens Healthcare						
Siemens Dimension	38	276.2	6.8	2.4	276	248 - 304
All Chemistry Instruments	41	275.5	7.0	2.6	276	247 - 304
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	285.9	17.0	5.9	289	257 - 315
VITROS						
VITROS 250,350,500,700,750,950	36	267.6	5.5	2.1	266	240 - 295
All Chemistry Instruments	256	275.3	10.1	3.7	274	247 - 303

Iron (µg/dL)

Specimen CH-6							Specimen CH-7					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	191.9	15.8	8.2	188	153 - 231	98	31.6	3.4	10.9	32	25 - 38
All Roche Integra/c111/c301/c501 Reagents	11	190.9	5.6	2.9	192	152 - 230	11	33.9	2.3	6.7	34	27 - 41
Beckman AU												
Beckman AU systems	23	206.4	4.2	2.0	206	165 - 248	22	33.4	2.6	7.7	34	26 - 41
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	170.2	7.5	4.4	170	136 - 205	10	30.0	2.5	8.3	29	24 - 36
Siemens Healthcare												
Siemens Dimension	18	182.7	3.7	2.0	183	146 - 220	17	32.0	1.1	3.5	32	25 - 39
All Chemistry Instruments	20	183.3	4.2	2.3	184	146 - 220	19	32.1	1.1	3.6	32	25 - 39
VITROS												
All Chemistry Instruments	14	219.2	18.8	8.6	219	175 - 264	14	27.2	6.5	24.0	27	21 - 33
Specimen CH-8							Specimen CH-9					
All Method	100	71.2	4.7	6.7	71	56 - 86	101	171.9	13.4	7.8	170	137 - 207
All Roche Integra/c111/c301/c501 Reagents	11	73.4	3.2	4.4	74	58 - 89	11	171.3	4.8	2.8	173	137 - 206
Beckman AU												
Beckman AU systems	22	75.8	2.4	3.2	76	60 - 91	23	184.0	4.1	2.2	184	147 - 221
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	66.2	4.6	6.9	66	52 - 80	10	153.7	8.1	5.3	152	122 - 185
Siemens Healthcare												
Siemens Dimension	17	69.7	1.5	2.2	70	55 - 84	18	163.6	3.1	1.9	164	130 - 197
All Chemistry Instruments	19	69.9	1.7	2.5	70	55 - 84	20	164.1	3.5	2.1	164	131 - 197
VITROS												
All Chemistry Instruments	14	71.9	5.4	7.5	72	57 - 87	14	189.4	10.9	5.8	188	151 - 228
Specimen CH-10												
All Method	101	235.1	21.1	9.0	230	188 - 283						
All Roche Integra/c111/c301/c501 Reagents	11	232.8	7.3	3.1	233	186 - 280						
Beckman AU												
Beckman AU systems	23	251.7	4.8	1.9	252	201 - 303						
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	213.5	21.4	10.0	206	170 - 257						
Siemens Healthcare												
Siemens Dimension	18	221.5	3.4	1.5	221	177 - 266						
All Chemistry Instruments	20	222.2	3.9	1.7	221	177 - 267						
VITROS												
All Chemistry Instruments	14	266.9	16.7	6.3	266	213 - 321						

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	5.92	0.47	7.9	6.0	4.5 - 7.4	6	1.08	0.12	10.8	1.1	0.7 - 1.5
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	2.27	0.23	10.3	2.3	1.5 - 3.0	6	5.35	0.39	7.3	5.4	4.1 - 6.6
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	7.07	0.63	9.0	7.2	5.1 - 9.0						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	127	4.24	0.22	5.3	4.2	3.1 - 5.3	126	1.34	0.10	7.1	1.4	1.0 - 1.7
All Horiba Pentra Reagents	17	4.02	0.31	7.8	4.1	3.0 - 5.1	17	1.34	0.13	9.9	1.4	1.0 - 1.7
All Roche Integra/c111/c301/c501 Reagents	20	4.17	0.12	2.9	4.2	3.1 - 5.3	20	1.36	0.05	3.7	1.4	1.0 - 1.7
Beckman AU												
Beckman AU systems	22	4.22	0.12	2.7	4.2	3.1 - 5.3	22	1.37	0.07	5.2	1.4	1.0 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	4.02	0.31	7.8	4.1	3.0 - 5.1	17	1.34	0.13	9.9	1.4	1.0 - 1.7
Roche Integra												
Roche Integra	13	4.12	0.12	3.0	4.1	3.0 - 5.2	13	1.37	0.05	3.5	1.4	1.0 - 1.8
Siemens Healthcare												
Siemens Dimension	20	4.33	0.16	3.7	4.3	3.2 - 5.5	20	1.31	0.06	4.9	1.3	0.9 - 1.7
All Chemistry Instruments	22	4.32	0.16	3.8	4.3	3.2 - 5.5	22	1.31	0.06	4.9	1.3	0.9 - 1.7
VITROS												
VITROS 250,350,500,700,750,950	17	4.51	0.13	2.8	4.5	3.3 - 5.7	17	1.36	0.06	4.4	1.4	1.0 - 1.8
All Chemistry Instruments	23	4.50	0.14	3.0	4.5	3.3 - 5.7	23	1.37	0.06	4.7	1.4	1.0 - 1.8

Magnesium (mg/dL)

Specimen CH-8							Specimen CH-9					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	125	2.06	0.13	6.2	2.1	1.5 - 2.6	126	3.89	0.21	5.3	3.9	2.9 - 4.9
All Horiba Pentra Reagents	17	1.99	0.25	12.5	2.0	1.4 - 2.5	17	3.64	0.29	7.9	3.6	2.7 - 4.6
All Roche Integra/c111/c301/c501 Reagents	20	2.07	0.08	3.9	2.1	1.5 - 2.6	20	3.84	0.09	2.4	3.8	2.8 - 4.8
Beckman AU												
Beckman AU systems	22	2.07	0.06	2.7	2.1	1.5 - 2.6	22	3.89	0.10	2.5	3.9	2.9 - 4.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	1.99	0.25	12.5	2.0	1.4 - 2.5	17	3.64	0.29	7.9	3.6	2.7 - 4.6
Roche Integra												
Roche Integra	13	2.06	0.10	4.7	2.1	1.5 - 2.6	13	3.79	0.08	2.0	3.8	2.8 - 4.8
Siemens Healthcare												
Siemens Dimension	20	2.05	0.14	7.0	2.1	1.5 - 2.6	20	3.93	0.13	3.4	3.9	2.9 - 5.0
All Chemistry Instruments	22	2.06	0.15	7.3	2.1	1.5 - 2.6	22	3.95	0.14	3.5	3.9	2.9 - 5.0
VITROS												
VITROS 250,350,500,700,750,950	17	2.18	0.09	4.0	2.2	1.6 - 2.8	17	4.14	0.12	3.0	4.1	3.1 - 5.2
All Chemistry Instruments	23	2.18	0.09	4.3	2.2	1.6 - 2.8	23	4.15	0.13	3.2	4.1	3.1 - 5.2
Specimen CH-10												
All Method	126	4.98	0.27	5.4	5.0	3.7 - 6.3						
All Horiba Pentra Reagents	17	4.68	0.42	8.9	4.7	3.5 - 5.9						
All Roche Integra/c111/c301/c501 Reagents	19	4.85	0.14	2.9	4.8	3.6 - 6.1						
Beckman AU												
Beckman AU systems	22	4.98	0.13	2.5	5.0	3.7 - 6.3						
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	4.68	0.42	8.9	4.7	3.5 - 5.9						
Roche Integra												
Roche Integra	13	4.78	0.09	1.9	4.8	3.5 - 6.0						
Siemens Healthcare												
Siemens Dimension	19	5.11	0.14	2.7	5.1	3.8 - 6.4						
All Chemistry Instruments	21	5.13	0.15	2.9	5.1	3.8 - 6.5						
VITROS												
VITROS 250,350,500,700,750,950	17	5.25	0.13	2.5	5.2	3.9 - 6.6						
All Chemistry Instruments	23	5.24	0.14	2.7	5.2	3.9 - 6.6						

Phosphorus (mg/dL)

Specimen CH-6							Specimen CH-7					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	5.02	0.21	4.2	5.0	4.4 - 5.6	104	1.75	0.12	7.0	1.7	1.4 - 2.1
All Alfa Wassermann Reagents	11	4.94	0.27	5.5	4.9	4.4 - 5.5	11	1.86	0.15	8.1	1.8	1.5 - 2.2
All Roche Integra/c111/c301/c501 Reagents	15	5.03	0.13	2.7	5.0	4.4 - 5.6	15	1.67	0.06	3.5	1.7	1.3 - 2.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	4.94	0.27	5.5	4.9	4.4 - 5.5	11	1.86	0.15	8.1	1.8	1.5 - 2.2
Beckman AU												
Beckman AU systems	21	4.91	0.15	3.1	4.9	4.3 - 5.5	20	1.62	0.07	4.2	1.6	1.3 - 2.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	5.25	0.17	3.3	5.3	4.6 - 5.9	10	1.82	0.08	4.3	1.8	1.5 - 2.2
Roche Integra												
Roche Integra	11	4.98	0.11	2.2	5.0	4.4 - 5.6	11	1.66	0.05	3.0	1.7	1.3 - 2.0
Siemens Healthcare												
Siemens Dimension	15	5.18	0.10	2.0	5.2	4.6 - 5.8	15	1.82	0.08	4.3	1.8	1.5 - 2.2
VITROS												
VITROS 250,350,500,700,750,950	11	4.96	0.17	3.4	5.0	4.4 - 5.5	11	1.88	0.10	5.2	1.9	1.5 - 2.2
All Chemistry Instruments	17	4.94	0.17	3.5	5.0	4.4 - 5.5	17	1.85	0.10	5.5	1.9	1.5 - 2.2

Specimen CH-8							Specimen CH-9					
All Method	102	2.58	0.13	5.1	2.6	2.2 - 2.9	103	4.63	0.19	4.1	4.6	4.1 - 5.2
All Alfa Wassermann Reagents	11	2.62	0.15	5.6	2.6	2.3 - 3.0	11	4.53	0.26	5.9	4.5	4.0 - 5.1
All Roche Integra/c111/c301/c501 Reagents	15	2.53	0.08	3.2	2.5	2.2 - 2.9	15	4.59	0.13	2.8	4.6	4.0 - 5.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	2.62	0.15	5.6	2.6	2.3 - 3.0	11	4.53	0.26	5.9	4.5	4.0 - 5.1
Beckman AU												
Beckman AU systems	20	2.44	0.08	3.1	2.4	2.1 - 2.8	21	4.50	0.14	3.1	4.5	4.0 - 5.0
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	2.66	0.10	3.6	2.7	2.3 - 3.0	10	4.78	0.10	2.2	4.8	4.2 - 5.3
Roche Integra												
Roche Integra	11	2.50	0.06	2.5	2.5	2.2 - 2.8	11	4.55	0.10	2.3	4.5	4.0 - 5.1
Siemens Healthcare												
Siemens Dimension	15	2.71	0.06	2.2	2.7	2.4 - 3.1	15	4.77	0.08	1.7	4.8	4.2 - 5.3
VITROS												
VITROS 250,350,500,700,750,950	11	2.68	0.13	4.7	2.7	2.3 - 3.0	11	4.60	0.19	4.1	4.7	4.1 - 5.1
All Chemistry Instruments	17	2.65	0.12	4.6	2.6	2.3 - 3.0	17	4.59	0.23	5.1	4.7	4.1 - 5.1

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	104	5.84	0.26	4.4	5.8	5.2 - 6.5
All Alfa Wassermann Reagents	11	5.70	0.30	5.2	5.6	5.0 - 6.4
All Roche Integra/c111/c301/c501 Reagents	15	5.84	0.16	2.7	5.8	5.2 - 6.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	5.70	0.30	5.2	5.6	5.0 - 6.4
Beckman AU						
Beckman AU systems	20	5.72	0.16	2.9	5.7	5.1 - 6.4
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	6.10	0.19	3.1	6.1	5.4 - 6.8
Roche Integra						
Roche Integra	11	5.78	0.13	2.2	5.8	5.1 - 6.5
Siemens Healthcare						
Siemens Dimension	14	6.04	0.09	1.6	6.0	5.3 - 6.7
VITROS						
VITROS 250,350,500,700,750,950	11	5.85	0.18	3.1	5.9	5.2 - 6.5
All Chemistry Instruments	17	5.80	0.20	3.5	5.8	5.1 - 6.5

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	267	7.14	0.28	3.9	7.1	6.4 - 7.9	267	3.00	0.12	3.9	3.0	2.7 - 3.3
All Alfa Wassermann Reagents	37	7.30	0.20	2.8	7.3	6.5 - 8.1	37	3.02	0.09	2.9	3.0	2.7 - 3.4
All Horiba Pentra Reagents	21	7.10	0.20	2.8	7.1	6.3 - 7.9	21	2.97	0.10	3.2	3.0	2.6 - 3.3
All Roche Integra/c111/c301/c501 Reagents	27	7.09	0.16	2.3	7.1	6.3 - 7.8	27	2.95	0.07	2.4	3.0	2.6 - 3.3
All Vital Diagnostics Reagents	15	7.14	0.29	4.1	7.1	6.4 - 7.9	15	2.98	0.09	3.2	3.0	2.6 - 3.3
Abaxis Piccolo												
Abaxis Piccolo - waived	21	7.14	0.12	1.6	7.1	6.4 - 7.9	21	3.09	0.05	1.7	3.1	2.7 - 3.4
All Chemistry Instruments	29	7.16	0.13	1.8	7.1	6.4 - 7.9	28	3.09	0.05	1.7	3.1	2.7 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	36	7.32	0.19	2.6	7.3	6.5 - 8.1	36	3.03	0.08	2.7	3.0	2.7 - 3.4
Beckman AU												
Beckman AU systems	37	7.04	0.22	3.1	7.0	6.3 - 7.8	36	2.91	0.11	3.9	2.9	2.6 - 3.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	7.10	0.20	2.8	7.1	6.3 - 7.9	21	2.97	0.10	3.2	3.0	2.6 - 3.3
Roche Integra												
Roche Integra	18	7.04	0.17	2.4	7.1	6.3 - 7.8	18	2.93	0.07	2.3	2.9	2.6 - 3.3
Siemens Healthcare												
Siemens Dimension	37	7.49	0.14	1.8	7.5	6.7 - 8.3	38	3.12	0.08	2.6	3.1	2.8 - 3.5
All Chemistry Instruments	39	7.49	0.14	1.8	7.5	6.7 - 8.3	40	3.12	0.08	2.6	3.1	2.8 - 3.5
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	7.16	0.30	4.2	7.1	6.4 - 7.9	14	2.99	0.09	3.2	3.0	2.6 - 3.3
VITROS												
VITROS 250,350,500,700,750,950	38	6.78	0.21	3.1	6.8	6.1 - 7.5	37	2.96	0.09	3.0	3.0	2.6 - 3.3
All Chemistry Instruments	45	6.77	0.22	3.2	6.8	6.0 - 7.5	44	2.95	0.09	3.1	3.0	2.6 - 3.3

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	249	4.04	0.15	3.7	4.0	3.6 - 4.5	250	6.64	0.26	3.9	6.6	5.9 - 7.4
All Alfa Wassermann Reagents	37	4.11	0.11	2.8	4.1	3.6 - 4.6	37	6.82	0.18	2.7	6.8	6.1 - 7.5
All Horiba Pentra Reagents	21	4.00	0.10	2.6	4.0	3.6 - 4.5	21	6.59	0.15	2.2	6.6	5.9 - 7.3
All Roche Integra/c111/c301/c501 Reagents	27	3.99	0.09	2.3	4.0	3.5 - 4.4	27	6.58	0.17	2.5	6.6	5.9 - 7.3
All Vital Diagnostics Reagents	15	4.05	0.14	3.5	4.0	3.6 - 4.5	15	6.60	0.32	4.8	6.5	5.9 - 7.3
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	4.1	3.7 - 4.6	3	-	-	-	6.6	6.0 - 7.4
All Chemistry Instruments	10	4.12	0.08	1.9	4.1	3.7 - 4.6	10	6.67	0.08	1.2	6.7	6.0 - 7.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	36	4.11	0.10	2.5	4.1	3.7 - 4.6	36	6.83	0.17	2.4	6.8	6.1 - 7.6
Beckman AU												
Beckman AU systems	37	3.93	0.12	3.2	3.9	3.5 - 4.4	37	6.54	0.22	3.4	6.5	5.8 - 7.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	4.00	0.10	2.6	4.0	3.6 - 4.5	21	6.59	0.15	2.2	6.6	5.9 - 7.3
Roche Integra												
Roche Integra	18	3.96	0.09	2.2	4.0	3.5 - 4.4	18	6.56	0.17	2.6	6.6	5.9 - 7.3
Siemens Healthcare												
Siemens Dimension	38	4.22	0.10	2.3	4.2	3.7 - 4.7	38	6.94	0.12	1.8	7.0	6.2 - 7.7
All Chemistry Instruments	40	4.22	0.10	2.3	4.2	3.7 - 4.7	40	6.94	0.12	1.8	7.0	6.2 - 7.7
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	4.06	0.13	3.1	4.0	3.6 - 4.5	14	6.63	0.31	4.6	6.5	5.9 - 7.3
VITROS												
VITROS 250,350,500,700,750,950	38	3.96	0.14	3.5	4.0	3.5 - 4.4	38	6.39	0.19	2.9	6.4	5.7 - 7.1
All Chemistry Instruments	45	3.96	0.14	3.5	4.0	3.5 - 4.4	44	6.37	0.19	3.0	6.4	5.7 - 7.1

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	247	8.19	0.34	4.2	8.2	7.3 - 9.1
All Alfa Wassermann Reagents	37	8.43	0.20	2.4	8.5	7.5 - 9.3
All Horiba Pentra Reagents	21	8.17	0.19	2.4	8.2	7.3 - 9.0
All Roche Integra/c111/c301/c501 Reagents	27	8.08	0.24	2.9	8.1	7.2 - 8.9
All Vital Diagnostics Reagents	15	8.31	0.36	4.4	8.3	7.4 - 9.2
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	8.2	7.3 - 9.1
All Chemistry Instruments	10	8.22	0.13	1.6	8.2	7.3 - 9.1
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	36	8.45	0.18	2.2	8.5	7.6 - 9.3
Beckman AU						
Beckman AU systems	37	8.08	0.28	3.5	8.1	7.2 - 8.9
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	8.17	0.19	2.4	8.2	7.3 - 9.0
Roche Integra						
Roche Integra	18	8.03	0.21	2.6	7.9	7.2 - 8.9
Siemens Healthcare						
Siemens Dimension	37	8.60	0.14	1.7	8.6	7.7 - 9.5
All Chemistry Instruments	39	8.60	0.14	1.6	8.6	7.7 - 9.5
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	8.34	0.36	4.3	8.3	7.5 - 9.2
VITROS						
VITROS 250,350,500,700,750,950	38	7.75	0.21	2.7	7.8	6.9 - 8.6
All Chemistry Instruments	45	7.73	0.23	3.0	7.8	6.9 - 8.6

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	270	37.6	2.5	6.6	38	34 - 42	269	6.3	0.9	14.9	6	4 - 9
All Alfa Wassermann Reagents	39	37.5	1.7	4.4	37	34 - 41	38	6.4	0.6	9.3	6	4 - 9
All Horiba Pentra Reagents	20	38.0	1.1	3.0	38	34 - 42	21	6.0	0.4	6.4	6	4 - 9
All Roche Integra/c111/c301/c501 Reagents	27	38.0	1.6	4.3	38	34 - 42	27	6.3	0.5	7.4	6	4 - 9
All Vital Diagnostics Reagents	14	39.1	1.7	4.5	39	35 - 43	13	7.2	1.1	15.1	7	5 - 10
Abaxis Piccolo												
Abaxis Piccolo - waived	20	35.7	0.9	2.6	36	32 - 39	20	7.7	0.6	7.7	8	5 - 10
All Chemistry Instruments	26	35.7	0.8	2.3	36	32 - 39	26	7.7	0.6	7.3	8	5 - 10
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	37.6	1.5	4.1	37	34 - 41	32	6.4	0.6	8.8	6	4 - 9
Beckman AU												
Beckman AU systems	37	39.3	1.1	2.9	40	35 - 43	37	6.5	0.6	9.4	6	4 - 9
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	38.0	1.1	3.0	38	34 - 42	21	6.0	0.4	6.4	6	4 - 9
Roche Integra												
Roche Integra	18	37.9	1.3	3.6	38	34 - 42	18	6.2	0.4	6.9	6	4 - 9
Siemens Healthcare												
Siemens Dimension	38	39.8	1.7	4.3	40	36 - 44	37	6.5	0.8	11.9	6	4 - 9
All Chemistry Instruments	41	39.7	1.7	4.2	40	36 - 44	40	6.5	0.7	11.6	6	4 - 9
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	39.0	1.7	4.4	39	35 - 43	12	7.1	1.0	14.1	7	5 - 10
VITROS												
VITROS 250,350,500,700,750,950	38	33.9	0.8	2.4	34	30 - 37	38	5.0	0.4	8.6	5	3 - 8
All Chemistry Instruments	45	33.8	0.8	2.4	34	30 - 37	45	5.0	0.5	9.0	5	3 - 8

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	253	14.0	1.2	8.7	14	12 - 17	252	33.8	2.3	6.7	34	30 - 37
All Alfa Wassermann Reagents	38	14.2	0.8	5.6	14	12 - 17	39	33.8	1.6	4.9	34	30 - 37
All Horiba Pentra Reagents	20	14.0	0.4	2.8	14	11 - 16	21	34.2	1.1	3.2	34	31 - 38
All Roche Integra/c111/c301/c501 Reagents	27	14.1	0.6	4.5	14	12 - 17	27	34.0	1.1	3.3	34	30 - 38
All Vital Diagnostics Reagents	14	15.4	0.9	6.1	15	13 - 18	14	35.0	1.5	4.2	35	31 - 39
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	14	12 - 17	3	-	-	-	31	30 - 37
All Chemistry Instruments	8	-	-	-	14	11 - 16	8	-	-	-	32	28 - 35
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	33	14.2	0.8	5.6	14	12 - 17	33	33.7	1.6	4.8	34	30 - 37
Beckman AU												
Beckman AU systems	37	14.7	0.6	4.1	15	12 - 17	37	35.3	1.1	3.2	36	32 - 39
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	14.0	0.4	2.8	14	11 - 16	21	34.2	1.1	3.2	34	31 - 38
Roche Integra												
Roche Integra	18	14.1	0.5	3.3	14	12 - 17	18	34.1	0.9	2.8	34	30 - 38
Siemens Healthcare												
Siemens Dimension	38	14.6	0.8	5.6	15	12 - 17	37	35.3	1.4	3.9	35	32 - 39
All Chemistry Instruments	41	14.6	0.8	5.5	15	12 - 17	40	35.3	1.3	3.8	35	32 - 39
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	15.3	0.9	5.6	15	13 - 18	13	35.0	1.5	4.4	35	31 - 39
VITROS												
VITROS 250,350,500,700,750,950	38	12.1	0.5	3.7	12	10 - 15	38	30.2	0.8	2.5	30	27 - 33
All Chemistry Instruments	45	12.1	0.4	3.7	12	10 - 15	44	30.1	0.8	2.7	30	27 - 33

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	253	46.1	2.7	6.0	46	41 - 51
All Alfa Wassermann Reagents	39	45.9	2.3	4.9	45	41 - 51
All Horiba Pentra Reagents	21	46.5	1.5	3.2	47	42 - 51
All Roche Integra/c111/c301/c501 Reagents	27	46.3	1.7	3.6	46	42 - 51
All Vital Diagnostics Reagents	14	47.0	2.0	4.3	47	42 - 52
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	44	41 - 51
All Chemistry Instruments	8	-	-	-	45	40 - 49
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	33	45.8	2.2	4.7	45	41 - 50
Beckman AU						
Beckman AU systems	37	47.7	1.7	3.6	48	43 - 52
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	46.5	1.5	3.2	47	42 - 51
Roche Integra						
Roche Integra	18	46.2	1.4	2.9	46	42 - 51
Siemens Healthcare						
Siemens Dimension	38	47.9	1.8	3.8	48	43 - 53
All Chemistry Instruments	41	47.9	1.8	3.8	48	43 - 53
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	46.9	2.1	4.4	47	42 - 52
VITROS						
VITROS 250,350,500,700,750,950	37	41.9	0.9	2.1	42	38 - 46
All Chemistry Instruments	43	41.9	0.8	2.0	42	38 - 46

Uric Acid (mg/dL)

Specimen CH-6							Specimen CH-7					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	173	10.57	0.41	3.9	10.6	8.7 - 12.4	169	1.87	0.30	16.1	1.8	1.5 - 2.2
All Alfa Wassermann Reagents	21	10.75	0.48	4.5	10.8	8.9 - 12.6	21	2.76	0.16	5.8	2.8	2.2 - 3.3
All Roche Integra/c111/c301/c501 Reagents	19	10.76	0.31	2.8	10.8	8.9 - 12.6	19	1.77	0.07	4.2	1.8	1.4 - 2.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	10.75	0.48	4.5	10.8	8.9 - 12.6	21	2.76	0.16	5.8	2.8	2.2 - 3.3
Beckman AU												
Beckman AU systems	31	10.73	0.20	1.9	10.7	8.9 - 12.6	31	1.86	0.08	4.1	1.9	1.5 - 2.2
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	10.43	0.26	2.5	10.5	8.6 - 12.3	15	1.78	0.09	4.8	1.8	1.4 - 2.1
Roche Integra												
Roche Integra	12	10.75	0.36	3.4	10.7	8.9 - 12.6	12	1.75	0.09	5.2	1.7	1.4 - 2.1
Siemens Healthcare												
Siemens Dimension	28	10.39	0.25	2.5	10.4	8.6 - 12.2	28	1.80	0.08	4.7	1.8	1.4 - 2.2
All Chemistry Instruments	30	10.37	0.25	2.4	10.3	8.6 - 12.2	30	1.81	0.09	5.0	1.8	1.4 - 2.2
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	10.98	0.14	1.3	11.0	9.1 - 12.9	10	1.91	0.07	3.9	1.9	1.5 - 2.3
VITROS												
VITROS 250,350,500,700,750,950	24	10.38	0.22	2.1	10.4	8.6 - 12.2	24	1.75	0.12	6.8	1.7	1.4 - 2.1
All Chemistry Instruments	31	10.40	0.27	2.6	10.4	8.6 - 12.2	31	1.75	0.11	6.2	1.7	1.4 - 2.1

Specimen CH-8							Specimen CH-9					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	4.08	0.24	5.8	4.0	3.3 - 4.8	172	9.50	0.38	4.0	9.5	7.8 - 11.2
All Alfa Wassermann Reagents	21	4.55	0.20	4.4	4.5	3.7 - 5.4	21	9.58	0.32	3.4	9.5	7.9 - 11.3
All Roche Integra/c111/c301/c501 Reagents	19	4.05	0.13	3.3	4.1	3.3 - 4.8	19	9.66	0.28	2.9	9.7	8.0 - 11.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	4.55	0.20	4.4	4.5	3.7 - 5.4	21	9.58	0.32	3.4	9.5	7.9 - 11.3
Beckman AU												
Beckman AU systems	31	4.09	0.10	2.4	4.1	3.3 - 4.8	32	9.66	0.19	2.0	9.6	8.0 - 11.4
Horiba ABX Pentra												
Horiba ABX Pentra 400	15	3.93	0.11	2.8	3.9	3.2 - 4.6	15	9.37	0.23	2.5	9.4	7.7 - 11.0
Roche Integra												
Roche Integra	12	4.02	0.14	3.5	4.0	3.3 - 4.7	12	9.62	0.34	3.5	9.6	7.9 - 11.3
Siemens Healthcare												
Siemens Dimension	27	3.89	0.09	2.3	3.9	3.2 - 4.6	28	9.28	0.18	1.9	9.3	7.7 - 10.9
All Chemistry Instruments	29	3.89	0.09	2.3	3.9	3.2 - 4.6	29	9.28	0.17	1.9	9.3	7.6 - 10.9
Vital Diagnostics												
Vital Diagnostics Envoy 500	10	4.21	0.12	2.8	4.2	3.4 - 5.0	10	9.93	0.22	2.2	9.9	8.2 - 11.7
VITROS												
VITROS 250,350,500,700,750,950	24	3.98	0.11	2.8	4.0	3.2 - 4.7	24	9.27	0.21	2.3	9.3	7.6 - 10.9
All Chemistry Instruments	31	3.99	0.12	2.9	4.0	3.3 - 4.7	30	9.31	0.24	2.6	9.3	7.7 - 10.9

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	167	12.81	0.48	3.7	12.8	10.6 - 15.0
All Alfa Wassermann Reagents	21	12.83	0.40	3.1	12.8	10.6 - 15.1
All Roche Integra/c111/c301/c501 Reagents	19	12.96	0.37	2.9	13.0	10.7 - 15.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	12.83	0.40	3.1	12.8	10.6 - 15.1
Beckman AU						
Beckman AU systems	33	13.09	0.34	2.6	13.0	10.8 - 15.4
Horiba ABX Pentra						
Horiba ABX Pentra 400	15	12.58	0.34	2.7	12.5	10.4 - 14.8
Roche Integra						
Roche Integra	12	12.92	0.44	3.4	12.9	10.7 - 15.2
Siemens Healthcare						
Siemens Dimension	25	12.52	0.29	2.3	12.4	10.3 - 14.7
All Chemistry Instruments	26	12.50	0.29	2.4	12.4	10.3 - 14.7
Vital Diagnostics						
Vital Diagnostics Envoy 500	10	13.49	0.35	2.6	13.4	11.1 - 15.8
VITROS						
VITROS 250,350,500,700,750,950	24	12.63	0.22	1.8	12.6	10.4 - 14.8
All Chemistry Instruments	31	12.66	0.24	1.9	12.6	10.5 - 14.9

Chloride (mmol/L)

Specimen CH-6							Specimen CH-7					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	263	114.4	4.5	3.9	113	108 - 121	263	89.2	2.0	2.2	89	84 - 94
Abaxis Piccolo												
Abaxis Piccolo - waived	21	109.4	2.2	2.0	109	103 - 115	21	91.7	1.9	2.1	92	87 - 97
All Chemistry Instruments	28	109.4	2.1	1.9	110	103 - 115	28	91.7	1.9	2.1	92	87 - 97
ISE Diluted												
Beckman AU systems	39	110.0	1.3	1.1	110	104 - 116	38	89.7	1.0	1.1	90	85 - 95
Roche Integra	16	115.4	3.2	2.8	115	109 - 122	16	89.8	2.3	2.5	90	85 - 95
Siemens Dimension QuickLyte - Xpand/EXL	26	117.8	1.5	1.3	118	111 - 124	25	88.4	0.9	1.0	88	83 - 93
Vital Diagnostics Envoy 500	14	122.1	7.3	6.0	121	115 - 129	14	90.6	2.8	3.1	90	86 - 96
All Chemistry Instruments	134	114.5	4.3	3.8	114	108 - 121	132	88.8	2.1	2.3	89	84 - 94
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	32	119.4	1.3	1.1	120	113 - 126	33	88.8	1.5	1.6	89	84 - 94
Horiba ABX Pentra 400	13	118.9	5.2	4.3	120	112 - 125	17	89.2	2.1	2.4	89	84 - 94
All Chemistry Instruments	53	118.5	3.6	3.0	119	112 - 125	57	88.9	1.7	2.0	89	84 - 94
VITROS												
VITROS 250,350,500,700,750,950	36	112.2	1.3	1.2	112	106 - 118	36	89.3	1.1	1.3	89	84 - 94
All Chemistry Instruments	44	112.3	1.4	1.3	112	106 - 118	44	89.3	1.2	1.4	89	84 - 94

Specimen CH-8							Specimen CH-9					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	244	95.2	1.8	1.9	95	90 - 100	243	111.4	3.6	3.2	111	105 - 117
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	94	91 - 102	3	-	-	-	105	101 - 113
All Chemistry Instruments	9	-	-	-	96	91 - 102	9	-	-	-	108	101 - 113
ISE Diluted												
Beckman AU systems	38	94.6	0.8	0.8	95	89 - 100	39	107.3	1.0	0.9	107	101 - 113
Roche Integra	16	95.9	2.4	2.5	96	91 - 101	16	112.6	3.0	2.6	113	106 - 119
Siemens Dimension QuickLyte - Xpand/EXL	26	95.3	1.1	1.2	95	90 - 101	26	114.0	1.3	1.1	114	108 - 120
Vital Diagnostics Envoy 500	14	98.4	3.4	3.5	99	93 - 104	13	116.4	3.0	2.5	116	110 - 123
All Chemistry Instruments	132	95.0	2.1	2.2	95	90 - 100	133	111.1	3.6	3.2	111	105 - 117
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	33	95.3	1.3	1.3	95	90 - 101	33	114.5	1.3	1.1	115	108 - 121
Horiba ABX Pentra 400	17	96.2	2.7	2.8	96	91 - 102	13	114.3	5.0	4.4	115	108 - 121
All Chemistry Instruments	57	95.5	1.9	2.0	95	90 - 101	53	114.0	3.1	2.7	114	108 - 120
VITROS												
VITROS 250,350,500,700,750,950	36	94.8	1.0	1.1	95	90 - 100	36	109.5	1.3	1.1	109	104 - 115
All Chemistry Instruments	43	94.9	1.0	1.1	95	90 - 100	42	109.7	1.4	1.2	109	104 - 116

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	239	121.8	5.3	4.3	121	115 - 128
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	111	108 - 120
All Chemistry Instruments	9	-	-	-	114	108 - 120
ISE Diluted						
Beckman AU systems	39	115.3	1.2	1.0	115	109 - 122
Roche Integra	16	124.8	7.2	5.7	123	118 - 131
Siemens Dimension QuickLyte - Xpand/EXL	26	125.2	1.4	1.2	125	118 - 132
Vital Diagnostics Envoy 500	13	125.8	2.5	2.0	126	119 - 133
All Chemistry Instruments	132	120.9	4.9	4.1	121	114 - 127
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	32	127.7	1.7	1.4	127	121 - 135
Horiba ABX Pentra 400	10	128.8	4.7	3.6	130	122 - 136
All Chemistry Instruments	48	127.8	2.9	2.2	127	121 - 135
VITROS						
VITROS 250,350,500,700,750,950	36	119.4	1.5	1.2	119	113 - 126
All Chemistry Instruments	43	119.4	1.6	1.3	119	113 - 126

CO₂ (mmol/L)

Specimen CH-6							Specimen CH-7					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	260	34.0	2.9	8.4	34	27 - 41	260	15.9	1.7	11.0	16	12 - 20
Abaxis Piccolo												
Abaxis Piccolo - waived	21	31.3	1.7	5.5	31	25 - 38	21	15.0	1.3	8.4	15	12 - 18
All Chemistry Instruments	27	31.6	1.9	6.0	32	25 - 38	27	14.9	1.2	7.8	15	11 - 18
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	20	35.2	2.8	8.0	36	28 - 43	20	16.7	1.9	11.3	17	13 - 21
Beckman AU systems	32	35.6	2.2	6.1	36	28 - 43	31	16.2	1.0	5.9	16	12 - 20
Horiba ABX Pentra 400	14	33.2	3.7	11.0	34	26 - 40	14	16.8	1.7	10.0	17	13 - 21
Roche Integra	15	32.5	1.6	5.0	33	26 - 40	15	15.1	1.4	9.3	15	12 - 19
Siemens Dimension	24	35.1	1.7	4.8	35	28 - 43	25	17.7	1.1	6.3	17	14 - 22
All Chemistry Instruments	132	34.4	2.9	8.5	35	27 - 42	132	16.5	1.7	10.5	17	13 - 20
ISE Diluted												
Vital Diagnostics Envoy 500	12	35.3	4.8	13.5	34	28 - 43	12	14.7	1.9	13.1	14	11 - 18
All Chemistry Instruments	31	34.3	3.6	10.4	34	27 - 42	30	14.9	2.0	13.4	15	11 - 18
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	12	35.1	3.0	8.5	35	28 - 43	12	16.8	1.7	10.2	17	13 - 21
All Chemistry Instruments	19	35.3	2.7	7.6	35	28 - 43	19	16.8	1.5	9.0	17	13 - 21
VITROS												
VITROS 250,350,500,700,750,950	35	34.4	1.5	4.3	34	27 - 42	36	15.0	0.9	6.2	15	12 - 18
All Chemistry Instruments	44	34.0	2.0	5.9	34	27 - 41	44	14.9	1.0	6.7	15	11 - 18

Specimen CH-8							Specimen CH-9					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	240	20.2	1.9	9.5	20	16 - 25	241	31.2	2.5	8.0	31	24 - 38
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	21	16 - 25	3	-	-	-	30	24 - 37
All Chemistry Instruments	9	-	-	-	20	16 - 25	9	-	-	-	30	24 - 37
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	20	21.0	1.8	8.7	22	16 - 26	20	32.1	2.6	8.3	33	25 - 39
Beckman AU systems	31	20.3	1.2	5.7	20	16 - 25	32	32.3	1.7	5.2	32	25 - 39
Horiba ABX Pentra 400	14	20.7	2.0	9.5	21	16 - 25	14	31.7	4.3	13.5	31	25 - 39
Roche Integra	15	18.5	1.5	8.1	18	14 - 23	15	29.5	1.8	6.1	29	23 - 36
Siemens Dimension	25	21.9	1.2	5.5	22	17 - 27	26	32.5	1.7	5.2	33	26 - 39
All Chemistry Instruments	132	20.5	2.0	9.7	21	16 - 25	133	31.5	2.4	7.8	32	25 - 38
ISE Diluted												
Vital Diagnostics Envoy 500	12	19.8	2.6	13.3	20	15 - 24	12	32.2	5.0	15.6	31	25 - 39
All Chemistry Instruments	31	19.7	2.9	15.0	20	15 - 24	31	31.4	3.8	12.2	31	25 - 38
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	12	20.8	2.1	10.2	21	16 - 25	12	31.9	4.2	13.1	33	25 - 39
All Chemistry Instruments	19	21.1	1.9	9.0	21	16 - 26	18	32.8	1.8	5.4	33	26 - 40
VITROS												
VITROS 250,350,500,700,750,950	36	19.3	1.0	5.3	19	15 - 24	36	30.2	1.6	5.2	30	24 - 37
All Chemistry Instruments	43	19.2	1.0	5.2	19	15 - 23	43	30.1	1.7	5.6	30	24 - 37

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	241	37.6	3.3	8.7	38	30 - 46
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	35	28 - 43
All Chemistry Instruments	9	-	-	-	35	28 - 43
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	20	38.3	3.9	10.1	39	30 - 46
Beckman AU systems	32	39.6	2.4	6.0	40	31 - 48
Horiba ABX Pentra 400	14	36.6	4.4	12.1	38	29 - 44
Roche Integra	15	35.1	2.7	7.7	35	28 - 43
Siemens Dimension	24	38.7	2.2	5.6	39	30 - 47
All Chemistry Instruments	132	37.8	3.4	9.0	38	30 - 46
ISE Diluted						
Vital Diagnostics Envoy 500	12	38.2	6.6	17.4	37	30 - 46
All Chemistry Instruments	31	37.6	4.9	13.1	37	30 - 46
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	12	38.7	4.4	11.4	40	30 - 47
All Chemistry Instruments	18	39.7	2.7	6.7	40	31 - 48
VITROS						
VITROS 250,350,500,700,750,950	36	37.2	1.8	5.0	37	29 - 45
All Chemistry Instruments	44	37.1	1.9	5.1	37	29 - 45

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	273	6.67	0.25	3.8	6.6	6.1 - 7.2	259	2.62	0.09	3.6	2.6	2.1 - 3.2
Abaxis Piccolo												
Abaxis Piccolo - waived	22	6.55	0.21	3.2	6.6	6.0 - 7.1	22	2.25	0.15	6.7	2.2	1.7 - 2.8
All Chemistry Instruments	29	6.58	0.21	3.2	6.6	6.0 - 7.1	29	2.28	0.16	6.8	2.3	1.7 - 2.8
ISE Diluted												
Beckman AU systems	39	6.42	0.09	1.3	6.4	5.9 - 7.0	37	2.61	0.04	1.7	2.6	2.1 - 3.2
Roche Integra	17	6.55	0.05	0.8	6.6	6.0 - 7.1	17	2.61	0.03	1.3	2.6	2.1 - 3.2
Siemens Dimension QuickLyte - Xpand/EXL	26	6.60	0.07	1.1	6.6	6.1 - 7.2	27	2.59	0.05	2.0	2.6	2.0 - 3.1
Vital Diagnostics Envoy 500	14	6.52	0.12	1.8	6.5	6.0 - 7.1	14	2.61	0.05	2.0	2.6	2.1 - 3.2
All Chemistry Instruments	135	6.52	0.12	1.8	6.5	6.0 - 7.1	131	2.61	0.05	2.0	2.6	2.1 - 3.2
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	34	6.99	0.21	3.0	7.0	6.4 - 7.5	33	2.62	0.09	3.4	2.6	2.1 - 3.2
Horiba ABX Pentra 400	18	6.60	0.15	2.3	6.6	6.1 - 7.1	17	2.65	0.05	1.9	2.7	2.1 - 3.2
All Chemistry Instruments	60	6.81	0.28	4.1	6.8	6.3 - 7.4	58	2.63	0.09	3.4	2.6	2.1 - 3.2
VITROS												
VITROS 250,350,500,700,750,950	37	7.02	0.11	1.6	7.0	6.5 - 7.6	33	2.70	0.01	0.0	2.7	2.2 - 3.2
All Chemistry Instruments	45	7.01	0.11	1.6	7.0	6.5 - 7.6	43	2.69	0.03	1.1	2.7	2.1 - 3.2
<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	251	3.60	0.10	2.8	3.6	3.0 - 4.1	254	6.16	0.22	3.6	6.1	5.6 - 6.7
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	3.2	3.0 - 4.1	3	-	-	-	5.9	5.7 - 6.8
All Chemistry Instruments	9	-	-	-	3.4	3.0 - 4.1	9	-	-	-	6.3	5.7 - 6.8
ISE Diluted												
Beckman AU systems	38	3.52	0.04	1.2	3.5	3.0 - 4.1	39	5.94	0.06	1.0	5.9	5.4 - 6.5
Roche Integra	16	3.60	0.01	0.0	3.6	3.1 - 4.1	17	6.09	0.07	1.2	6.1	5.5 - 6.6
Siemens Dimension QuickLyte - Xpand/EXL	27	3.58	0.04	1.2	3.6	3.0 - 4.1	27	6.09	0.07	1.1	6.1	5.5 - 6.6
Vital Diagnostics Envoy 500	14	3.57	0.10	2.8	3.6	3.0 - 4.1	14	6.04	0.13	2.2	6.0	5.5 - 6.6
All Chemistry Instruments	133	3.56	0.06	1.8	3.6	3.0 - 4.1	135	6.03	0.11	1.9	6.0	5.5 - 6.6
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	33	3.58	0.06	1.8	3.6	3.0 - 4.1	33	6.39	0.13	2.0	6.4	5.8 - 6.9
Horiba ABX Pentra 400	18	3.59	0.08	2.3	3.6	3.0 - 4.1	18	6.06	0.11	1.9	6.0	5.5 - 6.6
All Chemistry Instruments	58	3.57	0.07	1.9	3.6	3.0 - 4.1	60	6.23	0.22	3.5	6.2	5.7 - 6.8
VITROS												
VITROS 250,350,500,700,750,950	37	3.74	0.06	1.7	3.8	3.2 - 4.3	37	6.45	0.12	1.8	6.5	5.9 - 7.0
All Chemistry Instruments	45	3.74	0.06	1.7	3.7	3.2 - 4.3	45	6.44	0.13	2.0	6.4	5.9 - 7.0

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	252	7.76	0.34	4.4	7.7	7.2 - 8.3
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	7.4	7.2 - 8.3
All Chemistry Instruments	9	-	-	-	7.8	7.2 - 8.3
ISE Diluted						
Beckman AU systems	39	7.42	0.10	1.4	7.4	6.9 - 8.0
Roche Integra	17	7.58	0.07	0.9	7.6	7.0 - 8.1
Siemens Dimension QuickLyte - Xpand/EXL	27	7.61	0.08	1.0	7.6	7.1 - 8.2
Vital Diagnostics Envoy 500	14	7.51	0.20	2.6	7.5	7.0 - 8.1
All Chemistry Instruments	135	7.53	0.15	2.0	7.5	7.0 - 8.1
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	34	8.24	0.23	2.8	8.2	7.7 - 8.8
Horiba ABX Pentra 400	17	7.70	0.17	2.2	7.7	7.2 - 8.2
All Chemistry Instruments	59	7.99	0.37	4.6	8.0	7.4 - 8.5
VITROS						
VITROS 250,350,500,700,750,950	37	8.18	0.15	1.8	8.2	7.6 - 8.7
All Chemistry Instruments	45	8.16	0.14	1.7	8.2	7.6 - 8.7

Sodium (mmol/L)

Technical tip: Incomplete or incorrect method reporting is a common cause of proficiency test failure, especially when it comes to the electrolytes. If your test method is "ISE Direct", it should be reported as ISE Undiluted on your MLE test result form (TRF). If your test method is "ISE Indirect", it should be reported as ISE Diluted on your MLE TRF. Be sure to check your package insert for the correct test method, or contact the manufacturer of the instrument or reagent.

Specimen CH-6							Specimen CH-7					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	274	155.4	6.4	4.1	153	151 - 160	262	113.9	2.5	2.2	114	109 - 118
Abaxis Piccolo												
Abaxis Piccolo - waived	22	155.2	2.3	1.5	155	151 - 160	14	118.7	1.8	1.5	119	114 - 123
All Chemistry Instruments	29	155.3	2.2	1.4	155	151 - 160	19	118.4	2.0	1.7	119	114 - 123
ISE Diluted												
Beckman AU systems	39	148.7	1.6	1.1	149	144 - 153	38	112.5	1.6	1.4	112	108 - 117
Roche Integra	17	149.9	1.0	0.7	150	145 - 154	17	112.5	1.2	1.0	113	108 - 117
Siemens Dimension QuickLyte - Xpand/EXL	27	151.4	1.4	0.9	151	147 - 156	28	116.0	1.3	1.1	116	112 - 120
Vital Diagnostics Envoy 500	14	151.0	2.2	1.4	151	147 - 155	14	113.0	1.8	1.6	113	109 - 117
All Chemistry Instruments	131	150.0	1.8	1.2	150	145 - 154	135	113.7	2.1	1.9	113	109 - 118
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	34	160.1	1.8	1.1	160	156 - 165	34	111.1	1.6	1.4	111	107 - 116
Horiba ABX Pentra 400	18	158.5	1.8	1.1	158	154 - 163	18	113.9	1.0	0.8	114	109 - 118
All Chemistry Instruments	56	159.4	2.2	1.4	159	155 - 164	59	112.1	1.9	1.7	112	108 - 117
VITROS												
VITROS 250,350,500,700,750,950	37	165.8	2.0	1.2	166	161 - 170	37	114.9	1.4	1.3	115	110 - 119
All Chemistry Instruments	44	165.9	1.9	1.2	166	161 - 170	45	115.0	1.5	1.3	115	111 - 120

Specimen CH-8							Specimen CH-9					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	253	123.3	2.5	2.1	123	119 - 128	253	149.6	5.6	3.8	148	145 - 154
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	127	121 - 130	3	-	-	-	150	146 - 155
All Chemistry Instruments	9	-	-	-	126	121 - 130	9	-	-	-	150	146 - 155
ISE Diluted												
Beckman AU systems	38	121.4	1.2	0.9	121	117 - 126	38	144.3	1.3	0.9	145	140 - 149
Roche Integra	17	121.4	1.6	1.3	122	117 - 126	17	145.2	1.3	0.9	145	141 - 150
Siemens Dimension QuickLyte - Xpand/EXL	28	124.5	0.9	0.7	125	120 - 129	28	146.8	1.4	0.9	147	142 - 151
Vital Diagnostics Envoy 500	14	122.3	2.5	2.0	122	118 - 127	14	146.4	2.8	1.9	147	142 - 151
All Chemistry Instruments	135	122.5	1.9	1.5	122	118 - 127	132	145.5	1.8	1.2	145	141 - 150
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	33	121.1	1.0	0.9	121	117 - 126	34	152.3	1.5	1.0	152	148 - 157
Horiba ABX Pentra 400	18	123.8	1.0	0.8	124	119 - 128	18	151.8	1.8	1.2	152	147 - 156
All Chemistry Instruments	59	122.1	1.7	1.4	122	118 - 127	56	152.0	1.7	1.1	152	147 - 156
VITROS												
VITROS 250,350,500,700,750,950	37	126.7	1.5	1.2	127	122 - 131	37	159.5	2.0	1.3	159	155 - 164
All Chemistry Instruments	45	126.9	1.6	1.2	127	122 - 131	44	159.5	2.0	1.3	159	155 - 164

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	251	166.6	8.8	5.3	162	162 - 171
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	165	161 - 170
All Chemistry Instruments	9	-	-	-	165	161 - 170
ISE Diluted						
Beckman AU systems	38	158.6	1.5	1.0	159	154 - 163
Roche Integra	17	159.2	1.0	0.6	159	155 - 164
Siemens Dimension QuickLyte - Xpand/EXL	28	160.4	1.6	1.0	160	156 - 165
Vital Diagnostics Envoy 500	12	159.7	2.5	1.6	160	155 - 164
All Chemistry Instruments	129	159.5	1.9	1.2	159	155 - 164
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	34	173.1	2.1	1.2	173	169 - 178
Horiba ABX Pentra 400	17	171.5	2.3	1.4	172	167 - 176
All Chemistry Instruments	56	172.1	3.1	1.8	173	168 - 177
VITROS						
VITROS 250,350,500,700,750,950	37	180.8	2.9	1.6	181	176 - 185
All Chemistry Instruments	45	180.7	2.7	1.5	181	176 - 185

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	19	362.4	115.1	31.8	407	132 - 593	17	104.6	13.1	12.5	107	78 - 131
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	17	368.1	111.4	30.3	407	145 - 591	15	106.1	9.5	8.9	107	84 - 128
	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	19	165.2	36.6	22.2	179	92 - 239	19	330.7	97.0	29.3	367	136 - 525
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	17	167.1	33.8	20.2	179	99 - 235	17	336.1	92.6	27.6	367	150 - 522
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	19	434.4	146.1	33.6	481	142 - 727						
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	17	442.2	142.9	32.3	481	156 - 728						

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	26	323.0	20.7	6.4	323	258 - 388	25	103.5	33.7	32.5	93	36 - 171
Siemens Healthcare												
Siemens Dimension	14	315.8	12.1	3.8	317	252 - 379	14	79.8	10.4	13.0	80	59 - 101
All Chemistry Instruments	16	316.3	11.3	3.6	317	253 - 380	16	80.3	9.8	12.2	81	60 - 100
	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	160.7	31.2	19.4	154	98 - 224	26	296.5	23.7	8.0	294	237 - 356
Siemens Healthcare												
Siemens Dimension	14	137.3	10.3	7.5	138	109 - 165	14	284.5	14.5	5.1	285	227 - 342
All Chemistry Instruments	16	137.7	9.7	7.0	138	110 - 166	16	285.4	13.8	4.8	286	228 - 343
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	378.3	22.5	5.9	382	302 - 455						
Siemens Healthcare												
Siemens Dimension	14	377.3	14.7	3.9	381	301 - 453						
All Chemistry Instruments	16	377.6	13.7	3.6	380	302 - 454						

UIBC – Direct (µg/dL)

Specimen CH-6							Specimen CH-7					
<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	223.1	11.3	5.1	225	178 - 268	29	78.5	9.6	12.2	78	59 - 98
All Roche Integra/c111/c301/c501 Reagents	10	214.0	8.1	3.8	213	171 - 257	10	71.5	5.2	7.3	73	57 - 86
Beckman AU												
Beckman AU systems	17	229.9	8.3	3.6	230	183 - 276	17	84.1	7.9	9.4	82	67 - 101
Specimen CH-8							Specimen CH-9					
All Method	29	114.0	8.8	7.8	114	91 - 137	29	204.8	11.7	5.7	206	163 - 246
All Roche Integra/c111/c301/c501 Reagents	10	106.8	4.8	4.5	105	85 - 129	10	196.8	7.3	3.7	194	157 - 237
Beckman AU												
Beckman AU systems	17	119.8	5.9	4.9	120	95 - 144	17	211.1	10.0	4.7	211	168 - 254
Specimen CH-10												
All Method	29	259.2	13.0	5.0	259	207 - 312						
All Roche Integra/c111/c301/c501 Reagents	10	247.9	9.1	3.7	250	198 - 298						
Beckman AU												
Beckman AU systems	17	267.3	8.7	3.3	270	213 - 321						

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	264	202.7	17.1	8.4	201	162 - 244	263	21.2	8.7	41.3	19	16 - 26
All Alfa Wassermann Reagents	36	179.1	4.8	2.7	178	143 - 215	36	11.2	2.1	18.3	12	8 - 14
All Horiba Pentra Reagents	20	235.7	6.2	2.6	237	188 - 283	21	19.5	1.6	8.0	20	15 - 24
All Roche Integra/c111/c301/c501 Reagents	26	207.9	3.7	1.8	209	166 - 250	27	17.3	0.7	4.1	17	13 - 21
All Vital Diagnostics Reagents	14	218.4	12.0	5.5	218	174 - 263	14	18.2	1.7	9.4	18	14 - 22
Abaxis Piccolo												
Abaxis Piccolo - waived	21	189.0	3.5	1.8	188	151 - 227	21	24.3	2.3	9.6	24	19 - 30
All Chemistry Instruments	28	188.5	3.5	1.9	188	150 - 227	29	24.1	2.5	10.4	24	19 - 29
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	179.2	4.6	2.6	179	143 - 216	30	11.2	2.2	19.5	11	8 - 14
Beckman AU												
Beckman AU systems	37	195.7	5.4	2.8	197	156 - 235	38	15.8	0.9	5.6	16	12 - 19
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	235.7	6.2	2.6	237	188 - 283	21	19.5	1.6	8.0	20	15 - 24
Roche Integra												
Roche Integra	18	209.3	5.5	2.6	210	167 - 252	18	17.3	0.7	3.9	17	13 - 21
Siemens Healthcare ALTi												
Siemens Dimension	33	216.3	6.0	2.8	215	173 - 260	34	19.6	2.0	10.3	20	15 - 24
All Chemistry Instruments	35	215.8	6.3	2.9	215	172 - 259	36	19.6	2.0	10.2	20	15 - 24
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	218.4	12.0	5.5	218	174 - 263	14	18.2	1.7	9.4	18	14 - 22
VITROS												
VITROS 250,350,500,700,750,950	38	198.3	4.2	2.1	198	158 - 238	38	37.9	4.0	10.5	38	30 - 46
All Chemistry Instruments	45	198.2	4.2	2.1	198	158 - 238	44	38.2	4.1	10.7	38	30 - 46

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	246	68.5	8.8	12.8	68	54 - 83	246	181.9	15.5	8.5	182	145 - 219
All Alfa Wassermann Reagents	37	54.4	1.9	3.5	54	43 - 66	38	159.0	5.2	3.3	159	127 - 191
All Horiba Pentra Reagents	20	77.2	2.4	3.1	77	61 - 93	20	211.3	5.3	2.5	212	169 - 254
All Roche Integra/c111/c301/c501 Reagents	26	67.0	1.3	2.0	67	53 - 81	26	184.7	3.3	1.8	185	147 - 222
All Vital Diagnostics Reagents	14	72.3	4.7	6.5	71	57 - 87	14	195.8	12.8	6.5	193	156 - 235
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	63	53 - 80	3	-	-	-	168	135 - 204
All Chemistry Instruments	10	66.3	2.8	4.2	67	53 - 80	10	169.8	4.1	2.4	171	135 - 204
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	54.4	2.0	3.7	54	43 - 66	32	159.0	4.9	3.1	159	127 - 191
Beckman AU												
Beckman AU systems	37	62.2	1.7	2.8	63	49 - 75	38	173.8	5.6	3.2	174	139 - 209
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	77.2	2.4	3.1	77	61 - 93	20	211.3	5.3	2.5	212	169 - 254
Roche Integra												
Roche Integra	18	67.4	1.8	2.7	67	53 - 81	17	184.6	3.9	2.1	186	147 - 222
Siemens Healthcare ALTi												
Siemens Dimension	33	71.4	2.9	4.1	71	57 - 86	33	192.7	5.1	2.6	193	154 - 232
All Chemistry Instruments	35	71.1	3.1	4.3	71	56 - 86	35	192.2	5.5	2.9	192	153 - 231
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	72.3	4.7	6.5	71	57 - 87	14	195.8	12.8	6.5	193	156 - 235
VITROS												
VITROS 250,350,500,700,750,950	38	80.1	3.6	4.4	80	64 - 97	38	179.3	3.8	2.1	179	143 - 216
All Chemistry Instruments	44	80.3	3.5	4.4	80	64 - 97	44	179.4	3.7	2.1	179	143 - 216

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	244	248.4	22.1	8.9	246	198 - 299
All Alfa Wassermann Reagents	35	220.4	5.4	2.5	221	176 - 265
All Horiba Pentra Reagents	20	289.0	8.6	3.0	288	231 - 347
All Roche Integra/c111/c301/c501 Reagents	26	253.0	4.1	1.6	254	202 - 304
All Vital Diagnostics Reagents	14	273.9	18.9	6.9	270	219 - 329
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	229	183 - 276
All Chemistry Instruments	10	229.6	4.4	1.9	229	183 - 276
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	29	220.7	4.4	2.0	221	176 - 265
Beckman AU						
Beckman AU systems	38	240.2	7.8	3.2	241	192 - 289
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	289.0	8.6	3.0	288	231 - 347
Roche Integra						
Roche Integra	17	252.6	4.6	1.8	255	202 - 304
Siemens Healthcare ALTi						
Siemens Dimension	33	264.5	6.4	2.4	265	211 - 318
All Chemistry Instruments	35	263.7	7.1	2.7	264	210 - 317
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	273.9	18.9	6.9	270	219 - 329
VITROS						
VITROS 250,350,500,700,750,950	38	235.1	4.4	1.9	235	188 - 283
All Chemistry Instruments	45	234.8	4.6	2.0	235	187 - 282

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	270	239.4	39.7	16.6	250	167 - 312	269	37.8	5.0	13.2	38	26 - 50
All Alfa Wassermann Reagents	36	259.6	13.2	5.1	261	181 - 338	36	37.6	2.0	5.3	38	26 - 49
All Horiba Pentra Reagents	21	280.5	11.8	4.2	281	196 - 365	21	43.7	3.9	9.0	43	30 - 57
All Roche Integra/c111/c301/c501 Reagents	27	258.1	9.1	3.5	257	180 - 336	26	37.4	1.1	2.9	37	26 - 49
All Vital Diagnostics Reagents	13	239.8	21.4	8.9	250	167 - 312	14	38.4	4.1	10.7	39	26 - 50
Abaxis Piccolo												
Abaxis Piccolo - waived	20	186.1	7.3	3.9	188	130 - 242	20	29.8	3.4	11.3	31	20 - 39
All Chemistry Instruments	29	186.9	6.6	3.5	188	130 - 243	29	29.8	4.0	13.5	31	20 - 39
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	258.8	14.0	5.4	260	181 - 337	30	37.5	2.1	5.7	37	26 - 49
Beckman AU												
Beckman AU systems	36	239.1	16.6	6.9	238	167 - 311	35	34.0	2.8	8.4	34	23 - 45
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	280.5	11.8	4.2	281	196 - 365	21	43.7	3.9	9.0	43	30 - 57
Roche Integra												
Roche Integra	17	257.6	10.2	3.9	257	180 - 335	17	37.5	1.6	4.2	37	26 - 49
All Chemistry Instruments	18	257.6	9.9	3.8	257	180 - 335	18	37.5	1.5	4.1	37	26 - 49
Siemens Healthcare												
Siemens Dimension	11	286.5	4.9	1.7	286	200 - 373	11	39.9	3.1	7.8	40	27 - 52
Siemens Healthcare ALPi												
Siemens Dimension	30	284.0	7.4	2.6	282	198 - 370	30	40.7	3.8	9.3	41	28 - 53
All Chemistry Instruments	32	284.3	7.3	2.6	283	199 - 370	32	40.7	3.7	9.0	41	28 - 53
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	239.8	21.4	8.9	250	167 - 312	13	37.7	3.4	9.0	38	26 - 49
VITROS												
VITROS 250,350,500,700,750,950	38	180.7	9.7	5.4	180	126 - 235	38	42.3	3.2	7.5	43	29 - 55
All Chemistry Instruments	45	181.4	9.8	5.4	180	126 - 236	45	42.1	3.0	7.2	43	29 - 55

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	251	95.9	9.3	9.7	96	67 - 125	251	219.5	31.4	14.3	228	153 - 286
All Alfa Wassermann Reagents	36	97.4	4.8	4.9	98	68 - 127	36	233.1	11.5	4.9	235	163 - 304
All Horiba Pentra Reagents	21	106.6	5.1	4.8	106	74 - 139	21	251.3	9.5	3.8	249	175 - 327
All Roche Integra/c111/c301/c501 Reagents	27	97.0	3.3	3.4	96	67 - 127	27	231.0	8.0	3.5	229	161 - 301
All Vital Diagnostics Reagents	14	91.6	8.5	9.3	96	64 - 120	13	215.8	17.0	7.9	223	151 - 281
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	75	51 - 97	3	-	-	-	157	117 - 219
All Chemistry Instruments	10	74.0	3.4	4.6	73	51 - 97	10	168.4	6.6	3.9	171	117 - 219
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	97.1	5.2	5.4	97	67 - 127	30	232.3	12.3	5.3	233	162 - 302
Beckman AU												
Beckman AU systems	36	89.0	6.4	7.2	90	62 - 116	36	212.7	15.2	7.1	211	148 - 277
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	106.6	5.1	4.8	106	74 - 139	21	251.3	9.5	3.8	249	175 - 327
Roche Integra												
Roche Integra	17	96.7	3.8	3.9	96	67 - 126	17	230.6	9.2	4.0	228	161 - 300
All Chemistry Instruments	18	96.7	3.7	3.8	96	67 - 126	18	230.6	8.9	3.9	229	161 - 300
Siemens Healthcare												
Siemens Dimension	11	106.5	3.1	2.9	106	74 - 139	11	256.1	4.3	1.7	256	179 - 333
Siemens Healthcare ALPi												
Siemens Dimension	30	105.7	4.3	4.1	106	73 - 138	30	253.9	6.5	2.5	253	177 - 331
All Chemistry Instruments	32	105.8	4.2	4.0	106	74 - 138	32	254.2	6.4	2.5	253	177 - 331
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	92.9	7.1	7.6	96	65 - 121	13	215.8	17.0	7.9	223	151 - 281
VITROS												
VITROS 250,350,500,700,750,950	38	93.3	4.9	5.3	93	65 - 122	38	171.7	8.2	4.8	171	120 - 224
All Chemistry Instruments	45	93.1	4.8	5.1	92	65 - 122	45	172.6	8.7	5.1	171	120 - 225

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	251	292.5	53.8	18.4	310	204 - 381
All Alfa Wassermann Reagents	36	317.0	15.8	5.0	319	221 - 413
All Horiba Pentra Reagents	21	339.2	15.4	4.5	340	237 - 441
All Roche Integra/c111/c301/c501 Reagents	27	314.5	10.8	3.4	314	220 - 409
All Vital Diagnostics Reagents	13	296.2	25.8	8.7	310	207 - 385
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	207	152 - 284
All Chemistry Instruments	10	218.2	9.0	4.1	222	152 - 284
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	30	315.4	16.6	5.3	314	220 - 411
Beckman AU						
Beckman AU systems	36	291.4	20.9	7.2	289	203 - 379
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	339.2	15.4	4.5	340	237 - 441
Roche Integra						
Roche Integra	17	313.9	12.5	4.0	314	219 - 409
All Chemistry Instruments	18	313.9	12.1	3.9	314	219 - 409
Siemens Healthcare						
Siemens Dimension	11	350.2	7.1	2.0	351	245 - 456
Siemens Healthcare ALPi						
Siemens Dimension	29	348.2	8.6	2.5	346	243 - 453
All Chemistry Instruments	31	348.8	8.8	2.5	346	244 - 454
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	296.2	25.8	8.7	310	207 - 385
VITROS						
VITROS 250,350,500,700,750,950	38	198.6	10.7	5.4	198	139 - 259
All Chemistry Instruments	45	199.9	11.0	5.5	198	139 - 260

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	231	266.0	28.1	10.6	265	212 - 320	231	17.5	3.2	18.2	17	14 - 22
All Alfa Wassermann Reagents	38	243.3	7.0	2.9	243	194 - 292	36	12.8	2.0	15.7	13	10 - 16
All Horiba Pentra Reagents	21	265.6	8.6	3.2	264	212 - 319	21	18.2	1.9	10.4	18	14 - 22
All Roche Integra/c111/c301/c501 Reagents	26	269.2	9.5	3.5	270	215 - 324	26	17.5	1.1	6.3	18	14 - 21
All Vital Diagnostics Reagents	15	271.4	16.4	6.0	270	217 - 326	15	18.5	2.4	12.8	18	14 - 23
Abaxis Piccolo												
Abaxis Piccolo - waived	20	259.4	8.4	3.2	260	207 - 312	20	22.4	1.4	6.4	23	17 - 27
All Chemistry Instruments	29	257.4	8.7	3.4	258	205 - 309	29	22.7	2.0	8.6	23	18 - 28
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	243.6	7.3	3.0	243	194 - 293	32	13.4	2.9	22.0	13	10 - 17
Beckman AU												
Beckman AU systems	37	234.6	8.3	3.5	234	187 - 282	37	16.0	0.9	5.8	16	12 - 20
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	265.6	8.6	3.2	264	212 - 319	21	18.2	1.9	10.4	18	14 - 22
Roche Integra												
Roche Integra	17	267.0	10.3	3.8	266	213 - 321	17	17.9	0.9	5.2	18	14 - 22
Siemens Healthcare												
Siemens Dimension	40	273.3	6.2	2.3	274	218 - 328	41	17.1	1.7	9.8	17	13 - 21
All Chemistry Instruments	42	273.6	6.2	2.3	275	218 - 329	43	17.0	1.7	9.9	17	13 - 21
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	273.3	15.2	5.6	270	218 - 328	14	18.6	2.4	13.0	19	14 - 23
VITROS												
VITROS 250,350,500,700,750,950	37	312.4	9.6	3.1	311	249 - 375	38	18.1	0.8	4.5	18	14 - 22
All Chemistry Instruments	44	312.1	9.5	3.0	311	249 - 375	45	18.0	0.8	4.4	18	14 - 22

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	211	79.2	6.8	8.6	81	63 - 96	210	235.4	23.8	10.1	236	188 - 283
All Alfa Wassermann Reagents	36	71.6	2.7	3.8	72	57 - 86	37	216.4	6.4	3.0	217	173 - 260
All Horiba Pentra Reagents	21	82.5	3.7	4.5	83	65 - 99	21	237.3	7.3	3.1	237	189 - 285
All Roche Integra/c111/c301/c501 Reagents	26	82.1	2.7	3.3	82	65 - 99	26	238.9	7.9	3.3	239	191 - 287
All Vital Diagnostics Reagents	15	84.2	6.6	7.9	83	67 - 102	15	240.5	15.8	6.6	239	192 - 289
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	87	66 - 101	3	-	-	-	229	185 - 279
All Chemistry Instruments	10	83.6	3.9	4.7	84	66 - 101	10	231.9	13.7	5.9	228	185 - 279
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	30	71.7	2.7	3.7	72	57 - 87	31	216.4	6.4	2.9	217	173 - 260
Beckman AU												
Beckman AU systems	37	71.2	2.2	3.1	72	56 - 86	37	207.0	6.1	3.0	206	165 - 249
Horiba ABX Pentra												
Horiba ABX Pentra 400	21	82.5	3.7	4.5	83	65 - 99	21	237.3	7.3	3.1	237	189 - 285
Roche Integra												
Roche Integra	17	81.8	3.0	3.7	82	65 - 99	17	237.2	8.6	3.6	237	189 - 285
Siemens Healthcare												
Siemens Dimension	41	82.0	3.2	3.9	82	65 - 99	41	242.8	6.8	2.8	242	194 - 292
All Chemistry Instruments	43	82.0	3.1	3.8	82	65 - 99	43	243.0	6.8	2.8	243	194 - 292
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	84.9	6.2	7.3	84	67 - 102	14	242.5	14.4	5.9	240	194 - 291
VITROS												
VITROS 250,350,500,700,750,950	38	85.3	3.6	4.2	85	68 - 103	38	272.0	9.6	3.5	271	217 - 327
All Chemistry Instruments	44	84.8	3.3	3.9	85	67 - 102	44	271.0	9.9	3.6	271	216 - 326

AST (SGOT) (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	211	333.7	46.2	13.8	327	266 - 401
All Alfa Wassermann Reagents	38	300.8	8.2	2.7	300	240 - 361
All Horiba Pentra Reagents	21	329.4	12.3	3.7	330	263 - 396
All Roche Integra/c111/c301/c501 Reagents	25	331.0	12.0	3.6	332	264 - 398
All Vital Diagnostics Reagents	15	334.9	20.3	6.1	333	267 - 402
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	310	251 - 378
All Chemistry Instruments	10	314.4	11.6	3.7	313	251 - 378
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	32	300.7	7.6	2.5	300	240 - 361
Beckman AU						
Beckman AU systems	36	289.4	8.9	3.1	290	231 - 348
Horiba ABX Pentra						
Horiba ABX Pentra 400	21	329.4	12.3	3.7	330	263 - 396
Roche Integra						
Roche Integra	17	327.8	12.3	3.7	327	262 - 394
Siemens Healthcare						
Siemens Dimension	41	340.7	9.7	2.8	340	272 - 409
All Chemistry Instruments	43	341.0	9.6	2.8	341	272 - 410
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	336.7	19.7	5.9	335	269 - 405
VITROS						
VITROS 250,350,500,700,750,950	36	413.3	14.2	3.4	415	330 - 496
All Chemistry Instruments	43	411.8	14.5	3.5	415	329 - 495

Creatine Kinase (IU/L)

Specimen CH-6							Specimen CH-7					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	111	290.8	28.9	9.9	299	203 - 378	108	21.8	3.2	14.8	21	15 - 29
All Alfa Wassermann Reagents	14	290.1	12.2	4.2	291	203 - 378	14	28.2	3.3	11.6	28	19 - 37
All Roche Integra/c111/c301/c501 Reagents	11	314.8	15.5	4.9	309	220 - 410	11	22.9	1.2	5.3	23	16 - 30
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	293.5	10.6	3.6	294	205 - 382	10	27.9	2.6	9.3	29	19 - 37
Beckman AU												
Beckman AU systems	23	277.4	9.0	3.2	278	194 - 361	22	19.1	0.8	4.4	19	13 - 25
Siemens Healthcare CKI												
Siemens Dimension	20	313.1	6.3	2.0	313	219 - 408	20	21.1	2.2	10.3	21	14 - 28
VITROS												
VITROS 250,350,500,700,750,950	11	238.0	16.3	6.8	248	166 - 310	11	23.8	8.7	36.6	20	16 - 31
All Chemistry Instruments	15	235.4	14.8	6.3	232	164 - 307	13	20.7	1.2	5.7	20	14 - 27

Specimen CH-8							Specimen CH-9					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	111	91.5	7.2	7.9	92	64 - 119	111	258.7	23.9	9.2	265	181 - 337
All Alfa Wassermann Reagents	14	95.0	4.2	4.4	95	66 - 124	14	259.6	8.4	3.2	260	181 - 338
All Roche Integra/c111/c301/c501 Reagents	11	97.3	4.1	4.2	97	68 - 127	11	279.9	12.9	4.6	274	195 - 364
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	94.9	4.4	4.6	95	66 - 124	10	260.3	8.6	3.3	261	182 - 339
Beckman AU												
Beckman AU systems	23	83.3	3.0	3.6	83	58 - 109	22	243.2	5.3	2.2	243	170 - 317
Siemens Healthcare CKI												
Siemens Dimension	20	94.7	3.0	3.2	95	66 - 124	20	276.6	6.1	2.2	276	193 - 360
VITROS												
VITROS 250,350,500,700,750,950	11	88.0	7.1	8.1	86	61 - 115	11	218.7	13.0	6.0	222	153 - 285
All Chemistry Instruments	15	87.8	6.5	7.5	89	61 - 115	15	216.9	11.9	5.5	215	151 - 283

Creatine Kinase (IU/L)

Specimen CH-10						
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	111	356.5	42.8	12.0	369	249 - 464
All Alfa Wassermann Reagents	14	355.6	11.5	3.2	357	248 - 463
All Roche Integra/c111/c301/c501 Reagents	11	389.5	20.4	5.2	386	272 - 507
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	355.0	12.3	3.5	358	248 - 462
Beckman AU						
Beckman AU systems	23	344.7	12.2	3.5	343	241 - 449
Siemens Healthcare CKI						
Siemens Dimension	20	387.7	8.6	2.2	388	271 - 504
VITROS						
VITROS 250,350,500,700,750,950	11	269.3	14.0	5.2	275	188 - 351
All Chemistry Instruments	15	265.9	13.3	5.0	261	186 - 346

GGT (IU/L)

Specimen CH-6							Specimen CH-7					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	70	178.5	31.7	17.8	172	115 - 242	70	20.0	5.5	27.5	18	9 - 32
All Roche Integra/c111/c301/c501 Reagents	10	160.4	3.8	2.4	159	128 - 193	10	15.3	0.7	4.4	15	12 - 19
Beckman AU												
Beckman AU systems	12	146.5	6.4	4.4	145	117 - 176	12	14.8	0.6	4.2	15	11 - 18
Siemens Healthcare												
Siemens Dimension	13	210.3	5.2	2.5	210	168 - 253	13	28.1	1.7	6.1	28	22 - 34
All Chemistry Instruments	15	210.7	5.0	2.4	212	168 - 253	15	27.5	2.3	8.2	28	21 - 33
Specimen CH-8							Specimen CH-9					
All Method	66	61.5	13.8	22.4	59	33 - 89	66	161.3	29.8	18.5	162	101 - 221
All Roche Integra/c111/c301/c501 Reagents	10	52.1	1.4	2.6	52	41 - 63	10	142.7	3.2	2.2	142	114 - 172
Beckman AU												
Beckman AU systems	12	48.1	2.1	4.4	48	38 - 58	12	131.3	6.0	4.6	130	105 - 158
Siemens Healthcare												
Siemens Dimension	13	73.9	1.6	2.2	74	59 - 89	13	188.9	3.9	2.1	190	151 - 227
All Chemistry Instruments	15	73.4	2.1	2.8	74	58 - 89	15	189.1	3.7	2.0	190	151 - 227
Specimen CH-10												
All Method	66	219.6	38.0	17.3	225	143 - 296						
All Roche Integra/c111/c301/c501 Reagents	10	196.7	4.5	2.3	197	157 - 237						
Beckman AU												
Beckman AU systems	12	179.8	8.6	4.8	178	143 - 216						
Siemens Healthcare												
Siemens Dimension	13	258.1	6.8	2.6	258	206 - 310						
All Chemistry Instruments	15	258.7	6.5	2.5	259	206 - 311						

Amylase (IU/L)

Specimen CH-6							Specimen CH-7					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	144.0	28.4	19.7	153	100 - 188	88	18.9	6.3	33.4	18	13 - 25
All Roche Integra/c111/c301/c501 Reagents	10	155.2	2.6	1.7	155	108 - 202	10	18.6	1.0	5.2	18	13 - 25
Beckman AU												
Beckman AU systems	17	126.8	7.7	6.0	125	88 - 165	17	11.8	1.1	9.8	12	8 - 16
Siemens Healthcare												
Siemens Dimension	11	175.3	3.5	2.0	176	122 - 228	11	15.5	1.0	6.7	16	10 - 21
VITROS												
VITROS 250,350,500,700,750,950	13	99.7	4.0	4.0	99	69 - 130	12	30.0	0.1	0.0	30	21 - 39
All Chemistry Instruments	17	99.8	3.8	3.8	99	69 - 130	16	30.0	0.1	0.0	30	21 - 39

Specimen CH-8							Specimen CH-9					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	83	47.6	8.4	17.7	51	33 - 62	83	128.6	25.2	19.6	137	89 - 168
All Roche Integra/c111/c301/c501 Reagents	10	52.0	0.9	1.8	52	36 - 68	10	138.1	2.8	2.1	138	96 - 180
Beckman AU												
Beckman AU systems	17	40.6	2.5	6.1	40	28 - 53	17	113.1	7.1	6.3	112	79 - 147
Siemens Healthcare												
Siemens Dimension	11	55.5	1.2	2.2	56	38 - 73	11	155.9	3.4	2.2	157	109 - 203
VITROS												
VITROS 250,350,500,700,750,950	14	37.1	4.3	11.5	38	25 - 49	14	91.9	4.6	5.0	91	64 - 120
All Chemistry Instruments	18	36.8	3.8	10.3	37	25 - 48	18	92.5	5.9	6.4	92	64 - 121

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	83	177.2	36.6	20.7	190	124 - 231
All Roche Integra/c111/c301/c501 Reagents	10	191.4	3.2	1.7	191	133 - 249
Beckman AU						
Beckman AU systems	17	156.1	9.2	5.9	155	109 - 203
Siemens Healthcare						
Siemens Dimension	11	214.9	3.9	1.8	215	150 - 280
VITROS						
VITROS 250,350,500,700,750,950	14	121.8	5.0	4.1	121	85 - 159
All Chemistry Instruments	17	122.1	5.3	4.3	121	85 - 159

Lactate Dehydrogenase (IU/L)

Specimen CH-6							Specimen CH-7					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	574.3	57.5	10.0	611	459 - 690	101	47.7	5.8	12.2	50	38 - 58
All Alfa Wassermann Reagents	11	439.8	8.9	2.0	441	351 - 528	11	40.8	4.4	10.9	41	32 - 49
All Horiba Pentra Reagents	11	610.0	29.3	4.8	620	488 - 732	11	51.8	7.4	14.3	51	41 - 63
All Roche Integra/c111/c301/c501 Reagents	21	624.6	11.6	1.9	624	499 - 750	21	52.8	2.5	4.6	53	42 - 64
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	439.8	8.9	2.0	441	351 - 528	11	40.8	4.4	10.9	41	32 - 49
Beckman AU												
Beckman AU systems	14	532.3	19.5	3.7	534	425 - 639	14	43.9	2.5	5.7	44	35 - 53
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	610.0	29.3	4.8	620	488 - 732	10	51.8	7.4	14.3	51	41 - 63
Roche cobas c 501												
Roche cobas 6000 / c 501	11	630.6	12.9	2.1	634	504 - 757	11	51.8	1.3	2.5	52	41 - 63
Roche Integra												
Roche Integra	10	622.7	10.7	1.7	623	498 - 748	10	53.3	2.9	5.5	53	42 - 64
Siemens Healthcare LDI												
Siemens Dimension	10	598.1	11.5	1.9	595	478 - 718	10	46.0	4.4	9.5	46	36 - 56
All Chemistry Instruments	11	599.5	11.3	1.9	602	479 - 720	11	46.1	4.1	8.8	47	36 - 56
VITROS												
VITROS 250,350,500,700,750,950	11	1980.1	65.4	3.3	1968	1584 - 2377	11	152.3	11.9	7.8	150	121 - 183
VITROS 5600	12	1890.2	86.8	4.6	1880	1512 - 2269	12	156.2	16.1	10.3	150	124 - 188
All Chemistry Instruments	23	1945.5	84.2	4.3	1948	1556 - 2335	23	153.8	13.2	8.6	150	123 - 185
Specimen CH-8							Specimen CH-9					
All Method	101	184.9	19.0	10.3	195	147 - 222	101	511.0	51.9	10.2	541	408 - 614
All Alfa Wassermann Reagents	11	145.8	6.4	4.4	147	116 - 175	11	391.0	15.4	3.9	384	312 - 470
All Horiba Pentra Reagents	11	199.0	13.3	6.7	203	159 - 239	11	548.8	32.4	5.9	548	439 - 659
All Roche Integra/c111/c301/c501 Reagents	21	202.7	4.8	2.3	203	162 - 244	21	556.4	11.2	2.0	558	445 - 668
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	11	145.8	6.4	4.4	147	116 - 175	11	391.0	15.4	3.9	384	312 - 470
Beckman AU												
Beckman AU systems	14	168.3	6.2	3.7	169	134 - 202	14	471.4	16.4	3.5	468	377 - 566
Horiba ABX Pentra												
Horiba ABX Pentra 400	10	199.0	13.3	6.7	203	159 - 239	10	548.8	32.4	5.9	548	439 - 659
Roche cobas c 501												
Roche cobas 6000 / c 501	11	200.4	5.1	2.6	203	160 - 241	11	559.2	13.1	2.3	562	447 - 672
Roche Integra												
Roche Integra	10	204.4	4.0	2.0	204	163 - 246	10	556.2	10.6	1.9	558	444 - 668
Siemens Healthcare LDI												
Siemens Dimension	10	189.0	7.0	3.7	192	151 - 227	10	533.1	7.9	1.5	537	426 - 640
All Chemistry Instruments	11	189.4	6.5	3.4	192	151 - 228	11	533.3	7.3	1.4	536	426 - 640
VITROS												
VITROS 250,350,500,700,750,950	11	619.4	15.6	2.5	616	495 - 744	11	1741.9	37.0	2.1	1735	1393 - 2091
VITROS 5600	12	614.8	5.2	0.8	613	491 - 738	12	1695.6	42.0	2.5	1689	1356 - 2035
All Chemistry Instruments	23	617.6	12.5	2.0	614	494 - 742	23	1724.1	44.0	2.6	1724	1379 - 2069

Lactate Dehydrogenase (IU/L)

Specimen CH-10

All Method	101	702.2	71.5	10.2	747	561 - 843
All Alfa Wassermann Reagents	11	533.5	20.3	3.8	529	426 - 641
All Horiba Pentra Reagents	11	750.2	26.2	3.5	753	600 - 901
All Roche Integra/c111/c301/c501 Reagents	21	756.5	15.6	2.1	756	605 - 908
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	533.5	20.3	3.8	529	426 - 641
Beckman AU						
Beckman AU systems	14	650.7	25.9	4.0	651	520 - 781
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	750.2	26.2	3.5	753	600 - 901
Roche cobas c 501						
Roche cobas 6000 / c 501	11	766.2	15.6	2.0	766	612 - 920
Roche Integra						
Roche Integra	10	753.1	14.4	1.9	753	602 - 904
Siemens Healthcare LDI						
Siemens Dimension	10	744.6	15.7	2.1	749	595 - 894
All Chemistry Instruments	11	745.0	14.5	2.0	749	596 - 894
VITROS						
VITROS 250,350,500,700,750,950	11	2402.8	165.6	6.9	2442	1922 - 2884
VITROS 5600	12	2401.4	50.2	2.1	2374	1921 - 2882
All Chemistry Instruments	23	2402.2	129.7	5.4	2424	1921 - 2883

Lipase (IU/L)

Specimen CH-6							Specimen CH-7					
<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	54	55.9	6.8	12.1	62	39 - 73	54	17.4	4.6	26.4	21	12 - 23
All Roche Integra/c111/c301/c501 Reagents	12	52.4	2.4	4.7	53	36 - 69	12	18.0	0.6	3.2	18	12 - 24
Beckman AU												
Beckman AU systems	11	59.1	3.9	6.6	58	41 - 77	11	15.3	4.2	27.5	15	10 - 20
Siemens Healthcare												
Siemens Dimension	11	226.3	26.4	11.7	223	158 - 295	11	74.1	8.4	11.3	72	51 - 97
VITROS												
VITROS 250,350,500,700,750,950	10	624.9	23.3	3.7	634	437 - 813	10	199.6	9.4	4.7	201	139 - 260
All Chemistry Instruments	12	645.2	42.1	6.5	634	451 - 839	12	198.9	8.9	4.5	201	139 - 259
Specimen CH-8							Specimen CH-9					
All Method	54	27.0	4.0	14.9	30	18 - 36	54	50.8	6.8	13.3	56	35 - 67
All Roche Integra/c111/c301/c501 Reagents	12	27.4	0.8	2.9	28	19 - 36	12	47.7	3.4	7.0	48	33 - 63
Beckman AU												
Beckman AU systems	11	25.7	2.8	10.7	27	18 - 34	10	52.9	2.5	4.8	53	37 - 69
Siemens Healthcare												
Siemens Dimension	11	115.1	16.7	14.5	107	80 - 150	11	210.0	22.2	10.6	205	147 - 273
VITROS												
VITROS 250,350,500,700,750,950	10	322.9	13.1	4.1	328	226 - 420	10	584.0	20.2	3.5	580	408 - 760
All Chemistry Instruments	12	323.6	14.4	4.4	326	226 - 421	12	590.8	23.5	4.0	596	413 - 769
Specimen CH-10												
All Method	54	64.7	8.7	13.5	71	45 - 85						
All Roche Integra/c111/c301/c501 Reagents	12	59.6	2.6	4.4	60	41 - 78						
Beckman AU												
Beckman AU systems	11	68.1	4.0	5.9	68	47 - 89						
Siemens Healthcare												
Siemens Dimension	11	262.7	28.7	10.9	258	183 - 342						
VITROS												
VITROS 250,350,500,700,750,950	10	1008.6	531.7	52.7	777	706 - 1312						
All Chemistry Instruments	12	915.9	392.7	42.9	800	641 - 1191						

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	6	235.63	22.14	9.4	239.8	169.2 - 302.1	6	2.90	4.95	170.7	0.9	0.0 - 17.8
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	60.80	6.10	10.0	61.7	42.4 - 79.2	5	210.00	25.68	12.2	210.2	132.9 - 287.1
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	271.78	37.61	13.8	266.0	158.9 - 384.7						

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	14	30.95	2.07	6.7	31.0	23.2 - 38.7	13	4.65	0.58	12.4	4.5	3.4 - 5.9
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	11.42	0.84	7.4	11.2	8.5 - 14.3	13	27.55	1.74	6.3	27.4	20.6 - 34.5
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	35.04	3.90	11.1	35.3	26.2 - 43.9						

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	17	46.32	3.10	6.7	46.0	37.0 - 55.7	17	52.15	4.34	8.3	52.3	39.1 - 65.2
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	50.46	4.17	8.3	50.8	37.9 - 63.0	17	46.67	3.15	6.8	46.2	37.2 - 56.2
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	45.26	3.05	6.7	44.8	36.1 - 54.4						

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	42	1.76	0.38	21.6	2.0	0.6 - 2.9	42	0.92	0.17	18.0	1.0	0.4 - 1.5
All Abbott Instruments	11	1.29	0.07	5.4	1.3	1.0 - 1.5	11	1.10	0.12	10.5	1.1	0.7 - 1.5
All TOSOH Instruments	12	4.10	0.32	7.7	4.0	3.1 - 5.1	12	1.93	0.20	10.3	1.9	1.3 - 2.6
Abbott Architect	10	1.29	0.07	5.4	1.3	1.0 - 1.5	10	1.10	0.12	10.5	1.1	0.7 - 1.5
Beckman ACCESS / 2 / Dxl	14	2.00	0.20	10.0	2.0	1.4 - 2.6	14	0.84	0.10	12.1	0.9	0.5 - 1.2
TOSOH ST AIA	10	4.15	0.36	8.6	4.2	3.0 - 5.3	10	1.98	0.19	9.8	2.0	1.4 - 2.6
	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	42	1.18	0.18	15.0	1.3	0.6 - 1.8	42	1.64	0.30	18.2	1.8	0.7 - 2.6
All Abbott Instruments	11	1.34	0.18	13.5	1.4	0.7 - 1.9	11	1.33	0.08	5.7	1.3	1.1 - 1.6
All TOSOH Instruments	12	2.63	0.23	8.6	2.7	1.9 - 3.4	12	3.85	0.34	8.9	3.9	2.8 - 4.9
Abbott Architect	10	1.34	0.18	13.5	1.4	0.7 - 1.9	10	1.33	0.08	5.7	1.3	1.1 - 1.6
Beckman ACCESS / 2 / Dxl	14	1.12	0.10	8.7	1.1	0.8 - 1.5	14	1.83	0.16	9.0	1.8	1.3 - 2.4
TOSOH ST AIA	10	2.68	0.17	6.4	2.7	2.1 - 3.3	10	3.92	0.34	8.8	3.9	2.8 - 5.0
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	42	2.02	0.51	25.3	2.4	0.4 - 3.6						
All Abbott Instruments	11	1.37	0.05	3.6	1.4	1.2 - 1.6						
All TOSOH Instruments	12	4.53	0.35	7.8	4.4	3.4 - 5.6						
Abbott Architect	10	1.37	0.05	3.6	1.4	1.2 - 1.6						
Beckman ACCESS / 2 / Dxl	14	2.39	0.26	11.0	2.4	1.5 - 3.2						
TOSOH ST AIA	10	4.53	0.40	8.8	4.4	3.3 - 5.8						

Free T₃ (pg/mL)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	4.44	0.66	14.8	4.4	2.4 - 6.5	38	2.84	0.51	17.9	2.9	1.3 - 4.4
All TOSOH Instruments	11	10.60	1.04	9.8	10.4	7.4 - 13.8	11	4.95	0.44	8.8	4.8	3.6 - 6.3
Beckman ACCESS / 2 / Dxl	19	4.06	0.23	5.6	4.1	3.3 - 4.8	19	2.63	0.18	6.8	2.6	2.0 - 3.2
Specimen CH-8							Specimen CH-9					
All Method	38	3.47	0.56	16.2	3.6	1.7 - 5.2	38	4.31	0.62	14.3	4.3	2.4 - 6.2
All TOSOH Instruments	11	6.73	0.60	9.0	6.6	4.9 - 8.6	11	10.00	0.98	9.8	10.0	7.0 - 13.0
Beckman ACCESS / 2 / Dxl	19	3.21	0.21	6.6	3.2	2.5 - 3.9	19	3.92	0.26	6.7	4.0	3.1 - 4.7
Specimen CH-10												
All Method	38	4.76	0.73	15.3	4.7	2.5 - 7.0						
All TOSOH Instruments	11	11.71	1.21	10.3	11.8	8.0 - 15.4						
Beckman ACCESS / 2 / Dxl	19	4.36	0.29	6.8	4.3	3.4 - 5.3						

Thyroxine (µg/dL)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	16.19	1.15	7.1	15.6	12.9 - 19.5	19	6.35	0.57	9.0	6.6	5.0 - 7.7
Beckman ACCESS / 2 / Dxl	14	15.24	0.85	5.6	15.2	12.1 - 18.3	14	6.81	0.58	8.5	6.6	5.4 - 8.2
Specimen CH-8							Specimen CH-9					
All Method	19	8.87	0.62	6.9	9.2	7.0 - 10.7	19	14.87	0.99	6.6	14.4	11.8 - 17.9
Beckman ACCESS / 2 / Dxl	14	9.65	0.57	5.9	9.5	7.7 - 11.6	13	14.56	0.94	6.4	14.2	11.6 - 17.5
Specimen CH-10												
All Method	19	18.28	1.75	9.6	17.5	14.6 - 22.0						
Beckman ACCESS / 2 / Dxl	14	17.04	1.16	6.8	17.0	13.6 - 20.5						

Free Thyroxine (ng/dL)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	4.18	0.99	23.7	4.2	1.2 - 7.2	157	3.16	0.53	16.9	3.0	1.5 - 4.8
All Roche Elecsys/Cobas Instruments	11	4.43	0.26	5.8	4.4	3.6 - 5.2	11	2.91	0.13	4.5	2.9	2.5 - 3.3
All TOSOH Instruments	35	4.83	0.31	6.5	4.8	3.8 - 5.8	36	3.64	0.29	8.0	3.6	2.7 - 4.6
Abbott Architect	13	4.85	0.51	10.6	4.8	3.3 - 6.4	13	2.35	0.17	7.1	2.4	1.8 - 2.9
Beckman ACCESS / 2 / Dxl	57	3.14	0.17	5.3	3.1	2.6 - 3.7	57	2.80	0.11	3.8	2.8	2.4 - 3.2
Siemens Dimension	24	4.59	0.39	8.5	4.7	3.4 - 5.8	24	3.49	0.28	8.1	3.5	2.6 - 4.4
TOSOH AIA	18	4.77	0.29	6.0	4.8	3.9 - 5.7	19	3.59	0.33	9.1	3.6	2.6 - 4.6
TOSOH ST AIA	17	4.89	0.34	6.9	4.9	3.8 - 6.0	17	3.69	0.24	6.5	3.7	2.9 - 4.5

Specimen CH-8							Specimen CH-9					
All Method	157	3.43	0.61	17.9	3.4	1.5 - 5.3	163	4.00	0.82	20.5	4.1	1.5 - 6.5
All Roche Elecsys/Cobas Instruments	11	3.35	0.13	3.9	3.4	2.9 - 3.8	11	4.28	0.20	4.6	4.3	3.6 - 4.9
All TOSOH Instruments	34	3.99	0.25	6.3	4.0	3.2 - 4.8	36	4.76	0.41	8.7	4.8	3.5 - 6.1
Abbott Architect	13	3.10	0.32	10.5	3.2	2.1 - 4.1	13	4.51	0.45	10.0	4.5	3.1 - 5.9
Beckman ACCESS / 2 / Dxl	57	2.88	0.15	5.1	2.9	2.4 - 3.4	57	3.09	0.13	4.3	3.1	2.6 - 3.5
Siemens Dimension	24	3.89	0.30	7.7	3.9	2.9 - 4.8	24	4.52	0.36	8.0	4.6	3.4 - 5.7
TOSOH AIA	18	4.01	0.36	9.0	3.9	2.9 - 5.1	19	4.69	0.50	10.6	4.7	3.1 - 6.2
TOSOH ST AIA	17	4.03	0.20	5.0	4.0	3.4 - 4.7	17	4.84	0.29	5.9	4.8	3.9 - 5.7

Specimen CH-10						
All Method	168	4.36	1.03	23.6	4.5	1.2 - 7.5
All Roche Elecsys/Cobas Instruments	11	4.80	0.26	5.5	4.8	4.0 - 5.6
All TOSOH Instruments	35	5.19	0.31	6.1	5.2	4.2 - 6.2
Abbott Architect	13	4.92	0.65	13.1	4.9	2.9 - 6.9
Beckman ACCESS / 2 / Dxl	55	3.26	0.14	4.4	3.3	2.8 - 3.7
Siemens Dimension	24	4.76	0.43	9.1	4.9	3.4 - 6.1
TOSOH AIA	19	5.25	0.43	8.2	5.2	3.9 - 6.6
TOSOH ST AIA	17	5.20	0.30	5.7	5.2	4.3 - 6.1

TSH (μU/mL)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	223	8.16	1.93	23.6	7.8	2.3 - 14.0	222	1.58	0.39	24.8	1.5	0.4 - 2.8
All Abbott Instruments	16	8.06	0.34	4.2	8.0	7.0 - 9.1	16	1.55	0.08	5.3	1.6	1.3 - 1.8
All Roche Elecsys/Cobas Instruments	13	8.05	0.37	4.6	8.1	6.9 - 9.2	12	1.87	0.08	4.2	1.9	1.6 - 2.2
All TOSOH Instruments	52	11.02	0.71	6.4	11.1	8.8 - 13.2	52	2.17	0.19	8.8	2.2	1.5 - 2.8
Abbott Architect	16	8.06	0.34	4.2	8.0	7.0 - 9.1	16	1.55	0.08	5.3	1.6	1.3 - 1.8
Beckman ACCESS / 2 / Dxl	68	7.71	0.40	5.1	7.7	6.5 - 8.9	69	1.44	0.11	7.7	1.5	1.1 - 1.8
Qualigen FastPack	11	7.43	0.62	8.4	7.5	5.5 - 9.4	11	1.34	0.14	10.2	1.3	0.9 - 1.8
Roche cobas e 411	10	8.03	0.41	5.1	8.1	6.8 - 9.3	10	1.81	0.23	12.6	1.9	1.1 - 2.5
Siemens Dimension	31	5.34	0.56	10.6	5.5	3.6 - 7.1	31	1.13	0.12	11.0	1.1	0.7 - 1.5
TOSOH AIA	26	11.00	0.71	6.5	10.9	8.8 - 13.2	25	2.18	0.21	9.5	2.2	1.5 - 2.8
TOSOH ST AIA	27	10.95	0.86	7.9	11.2	8.3 - 13.6	27	2.16	0.18	8.3	2.2	1.6 - 2.7

Specimen CH-8							Specimen CH-9					
All Method	223	3.37	0.83	24.7	3.2	0.8 - 5.9	224	7.36	1.78	24.1	7.1	2.0 - 12.7
All Abbott Instruments	16	3.33	0.15	4.6	3.4	2.8 - 3.8	16	7.26	0.28	3.9	7.3	6.4 - 8.2
All Roche Elecsys/Cobas Instruments	13	3.79	0.14	3.8	3.8	3.3 - 4.3	13	7.42	0.32	4.3	7.4	6.4 - 8.4
All TOSOH Instruments	52	4.61	0.34	7.3	4.6	3.5 - 5.7	52	10.02	0.76	7.6	10.1	7.7 - 12.3
Abbott Architect	16	3.33	0.15	4.6	3.4	2.8 - 3.8	16	7.26	0.28	3.9	7.3	6.4 - 8.2
Beckman ACCESS / 2 / Dxl	69	3.11	0.20	6.3	3.1	2.5 - 3.8	68	6.96	0.34	4.9	6.9	5.9 - 8.0
Qualigen FastPack	11	3.01	0.19	6.2	3.0	2.4 - 3.6	11	6.63	0.39	5.9	6.6	5.4 - 7.8
Roche cobas e 411	10	3.81	0.16	4.2	3.9	3.3 - 4.3	10	7.45	0.36	4.9	7.5	6.3 - 8.6
Siemens Dimension	31	2.27	0.24	10.4	2.3	1.5 - 3.0	31	4.86	0.52	10.8	4.9	3.2 - 6.5
TOSOH AIA	26	4.63	0.36	7.8	4.6	3.5 - 5.8	25	10.08	0.78	7.8	10.0	7.7 - 12.5
TOSOH ST AIA	26	4.59	0.32	6.9	4.6	3.6 - 5.6	27	9.97	0.75	7.5	10.1	7.7 - 12.3

Specimen CH-10						
All Method	224	9.50	2.25	23.7	9.1	2.7 - 16.3
All Abbott Instruments	16	9.48	0.40	4.2	9.4	8.2 - 10.7
All Roche Elecsys/Cobas Instruments	13	9.22	0.44	4.7	9.1	7.9 - 10.6
All TOSOH Instruments	53	12.80	1.09	8.6	12.8	9.5 - 16.1
Abbott Architect	16	9.48	0.40	4.2	9.4	8.2 - 10.7
Beckman ACCESS / 2 / Dxl	69	8.90	0.60	6.8	8.9	7.0 - 10.8
Qualigen FastPack	11	8.77	0.51	5.9	8.8	7.2 - 10.4
Roche cobas e 411	10	9.19	0.47	5.2	9.1	7.7 - 10.7
Siemens Dimension	31	6.26	0.72	11.5	6.3	4.1 - 8.5
TOSOH AIA	26	12.85	1.28	9.9	12.8	9.0 - 16.7
TOSOH ST AIA	27	12.74	0.90	7.1	12.7	10.0 - 15.5

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	148	-	1	147
AimStep Combo Pregnancy	1	-	-	1
Beckman ACCESS / 2 / DxI	1	-	-	1
Beckman Coulter ICON 25 hCG	4	-	-	4
bioMerieux Vidas, Mini Vidas	1	-	-	1
BTNX Rapid Response hCG	1	-	-	1
Cardinal Health SP Brand combo	9	-	-	9
CONSULT diagnostics hCG Combo	13	-	-	13
Henry Schein One Step + Combo	6	-	1	5
McKesson hCG Combo Cassette	1	-	-	1
Medline hCG Combo Test Cassette	1	-	-	1
NDC Pro Advantage	1	-	-	1
Polymedco Poly stat hCG	1	-	-	1
PSS Select hCG Combo	2	-	-	2
Quidel QuickVue + One-Step	12	-	-	12
Quidel QuickVue One-Step Combo	83	-	-	83
Quidel QuickVue Semi-Q hCG	1	-	-	1
Sekisui OSOM hCG Combo Test	2	-	-	2
Stanbio QUPID Plus	3	-	-	3

	Specimen HCG-8		Specimen HCG-9	
ALL METHODS	1	146	148	-
AimStep Combo Pregnancy	-	1	1	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 25 hCG	-	4	4	-
bioMerieux Vidas, Mini Vidas	-	1	1	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	9	9	-
CONSULT diagnostics hCG Combo	-	13	13	-
Henry Schein One Step + Combo	1	5	6	-
McKesson hCG Combo Cassette	-	1	1	-
Medline hCG Combo Test Cassette	-	1	1	-
NDC Pro Advantage	-	1	1	-
Polymedco Poly stat hCG	-	1	1	-
PSS Select hCG Combo	-	2	2	-
Quidel QuickVue + One-Step	-	12	12	-
Quidel QuickVue One-Step Combo	-	82	83	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	3	3	-

Serum hCG – Qualitative

Specimen HCG-10

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	146	2
AimStep Combo Pregnancy	-	1
Beckman ACCESS / 2 / Dxl	1	-
Beckman Coulter ICON 25 hCG	4	-
bioMerieux Vidas, Mini Vidas	1	-
BTNX Rapid Response hCG	1	-
Cardinal Health SP Brand combo	9	-
CONSULT diagnostics hCG Combo	13	-
Henry Schein One Step + Combo	6	-
LifeSign Status hCG	1	-
Medline hCG Combo Test Cassette	-	1
NDC Pro Advantage	1	-
Polymedco Poly stat hCG	1	-
PSS Select hCG Combo	2	-
Quidel QuickVue + One-Step	12	-
Quidel QuickVue One-Step Combo	83	-
Quidel QuickVue Semi-Q hCG	1	-
Sekisui OSOM hCG Combo Test	2	-
Stanbio QUPID Plus	3	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-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	27	1004.7	185.2	18.4	1017	449 - 1561	30	1.8	1.6	88.3	1	0 - 7
<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	30	1.8	1.6	88.3	1	0 - 7	26	3025.7	681.8	22.5	3053	980 - 5072
<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	28	192.9	27.4	14.2	202	110 - 276						

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	252	204.6	7.7	3.8	204	184 - 226	251	108.0	6.0	5.5	109	97 - 119
All Alfa Wassermann Reagents	34	207.0	4.4	2.1	206	186 - 228	34	113.4	2.9	2.6	113	102 - 125
All Horiba Pentra Reagents	17	208.6	6.7	3.2	207	187 - 230	17	111.6	4.1	3.7	110	100 - 123
All Roche Integra/c111/c301/c501 Reagents	18	205.6	4.5	2.2	206	185 - 227	18	111.2	2.3	2.0	112	100 - 123
All Vital Diagnostics Reagents	15	207.5	7.3	3.5	209	186 - 229	15	109.5	4.9	4.5	110	98 - 121
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	209.9	9.3	4.4	211	188 - 231	35	106.8	5.3	4.9	107	96 - 118
All Chemistry Instruments	39	209.9	8.8	4.2	210	188 - 231	39	107.2	5.1	4.8	107	96 - 118
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	207.3	4.2	2.0	207	186 - 229	32	113.4	2.7	2.4	113	102 - 125
Beckman AU												
Beckman AU systems	32	200.5	4.2	2.1	201	180 - 221	32	107.5	3.4	3.2	107	96 - 119
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	208.6	6.7	3.2	207	187 - 230	17	111.6	4.1	3.7	110	100 - 123
Roche Integra												
Roche Integra	10	205.9	5.1	2.5	206	185 - 227	10	111.1	2.7	2.5	111	99 - 123
Siemens Healthcare												
Siemens Dimension	35	202.6	5.0	2.5	203	182 - 223	34	109.5	2.8	2.5	110	98 - 121
All Chemistry Instruments	37	202.5	4.9	2.4	202	182 - 223	36	109.3	2.8	2.6	110	98 - 121
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	207.3	7.5	3.6	208	186 - 229	14	109.4	5.1	4.6	110	98 - 121
VITROS												
VITROS 250,350,500,700,750,950	29	198.9	8.9	4.5	197	179 - 219	29	98.1	4.2	4.3	98	88 - 108
All Chemistry Instruments	35	199.2	8.6	4.3	197	179 - 220	35	97.6	4.3	4.4	98	87 - 108

Cholesterol, Total (mg/dL)

Specimen CH-8							Specimen CH-9					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	219	132.2	6.2	4.7	132	119 - 146	217	192.2	6.4	3.3	192	172 - 212
All Alfa Wassermann Reagents	34	136.7	3.7	2.7	137	123 - 151	33	194.9	4.6	2.4	195	175 - 215
All Horiba Pentra Reagents	17	135.9	5.3	3.9	134	122 - 150	17	196.9	6.7	3.4	195	177 - 217
All Roche Integra/c111/c301/c501 Reagents	18	134.9	3.1	2.3	136	121 - 149	18	194.8	3.7	1.9	195	175 - 215
All Vital Diagnostics Reagents	15	134.5	8.0	5.9	134	121 - 148	15	197.5	7.2	3.7	197	177 - 218
Alere Cholestech LDX												
Alere Cholestech LDX - waived	8	-	-	-	130	117 - 144	8	-	-	-	194	175 - 215
All Chemistry Instruments	9	-	-	-	131	117 - 145	9	-	-	-	193	174 - 214
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	136.9	3.4	2.5	137	123 - 151	32	194.7	4.6	2.4	195	175 - 215
Beckman AU												
Beckman AU systems	32	130.2	3.1	2.4	130	117 - 144	32	188.7	4.2	2.2	189	169 - 208
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	135.9	5.3	3.9	134	122 - 150	17	196.9	6.7	3.4	195	177 - 217
Roche Integra												
Roche Integra	10	134.6	3.4	2.6	134	121 - 149	10	194.5	4.6	2.4	196	175 - 214
Siemens Healthcare												
Siemens Dimension	35	132.5	3.3	2.5	132	119 - 146	35	190.1	4.3	2.3	190	171 - 210
All Chemistry Instruments	37	132.4	3.2	2.4	132	119 - 146	37	189.9	4.3	2.2	190	170 - 209
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	133.8	7.8	5.8	134	120 - 148	14	197.1	7.3	3.7	196	177 - 217
VITROS												
VITROS 250,350,500,700,750,950	29	124.0	4.5	3.6	123	111 - 137	29	186.9	6.2	3.3	187	168 - 206
All Chemistry Instruments	35	123.5	4.8	3.9	124	111 - 136	35	187.2	6.3	3.4	187	168 - 206

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	216	228.2	7.8	3.4	228	205 - 252
All Alfa Wassermann Reagents	33	229.8	4.8	2.1	231	206 - 253
All Horiba Pentra Reagents	17	233.5	8.3	3.6	231	210 - 257
All Roche Integra/c111/c301/c501 Reagents	18	230.8	4.6	2.0	232	207 - 254
All Vital Diagnostics Reagents	15	234.2	10.3	4.4	232	210 - 258
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	234	208 - 256
All Chemistry Instruments	9	-	-	-	234	209 - 257
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	31	230.2	4.4	1.9	231	207 - 254
Beckman AU						
Beckman AU systems	32	224.9	4.9	2.2	224	202 - 248
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	233.5	8.3	3.6	231	210 - 257
Roche Integra						
Roche Integra	10	230.7	5.1	2.2	231	207 - 254
Siemens Healthcare						
Siemens Dimension	34	224.9	5.2	2.3	226	202 - 248
All Chemistry Instruments	36	224.7	5.1	2.3	225	202 - 248
Vital Diagnostics						
Vital Diagnostics Envoy 500	14	233.9	10.6	4.5	232	210 - 258
VITROS						
VITROS 250,350,500,700,750,950	29	223.6	5.3	2.4	225	201 - 246
All Chemistry Instruments	35	224.5	6.7	3.0	225	202 - 247

LDL Cholesterol - Calculated (mg/dL)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	151	61.4	16.9	27.5	62	27 - 96	182	28.3	14.4	50.8	29	0 - 58
Calculated-Trig/5												
Alere Cholestech LDX - waived	4	-	-	-	71	26 - 97	28	25.9	7.2	27.8	24	11 - 41
Alfa Wassermann ACE Alera/Axcel	24	76.5	8.6	11.3	77	53 - 100	24	44.9	4.0	8.9	44	31 - 59
Beckman AU systems	23	62.3	9.7	15.5	62	43 - 82	23	35.6	6.8	19.0	36	22 - 50
Horiba ABX Pentra 400	12	82.8	7.5	9.1	84	57 - 108	12	45.8	4.7	10.2	46	32 - 60
Siemens Dimension	18	44.1	6.8	15.3	44	30 - 58	18	11.1	4.2	38.4	11	2 - 20
Vital Diagnostics Envoy 500	12	69.4	10.7	15.4	68	48 - 91	12	35.6	9.3	26.0	36	17 - 55
VITROS 250,350,500,700,750,950	23	45.8	8.3	18.1	47	29 - 63	22	13.7	3.8	28.0	14	6 - 22
All Chemistry Instruments	144	61.6	17.5	28.5	62	26 - 97	173	28.2	14.3	50.6	29	0 - 57
Specimen CH-8							Specimen CH-9					
All Method	158	37.4	15.9	42.5	38	5 - 70	148	57.7	17.1	29.6	57	23 - 92
Calculated-Trig/5												
Alere Cholestech LDX - waived	8	-	-	-	35	5 - 70	2	-	-	-	75	22 - 93
Alfa Wassermann ACE Alera/Axcel	24	53.8	5.3	9.8	54	37 - 70	24	72.8	6.7	9.2	73	50 - 95
Beckman AU systems	23	42.7	8.3	19.4	43	26 - 60	23	59.2	9.1	15.3	59	41 - 78
Horiba ABX Pentra 400	12	55.9	7.2	12.9	56	39 - 73	12	78.2	7.5	9.6	78	54 - 102
Siemens Dimension	18	17.9	4.0	22.4	19	9 - 26	18	38.4	6.3	16.5	39	25 - 52
Vital Diagnostics Envoy 500	12	46.7	11.0	23.5	46	24 - 69	12	66.1	16.3	24.7	68	33 - 99
VITROS 250,350,500,700,750,950	23	24.0	4.6	19.2	25	14 - 34	23	43.3	8.0	18.6	45	27 - 60
All Chemistry Instruments	149	37.3	16.0	42.8	38	5 - 70	139	57.5	17.3	30.0	57	22 - 93
Specimen CH-10												
All Method	144	68.2	18.1	26.6	68	31 - 105						
Calculated-Trig/5												
Alere Cholestech LDX - waived	1	-	-	-	79	31 - 105						
Alfa Wassermann ACE Alera/Axcel	24	84.8	7.5	8.9	84	59 - 111						
Beckman AU systems	23	68.7	11.1	16.1	68	46 - 91						
Horiba ABX Pentra 400	12	90.9	8.2	9.0	92	63 - 119						
Siemens Dimension	18	52.4	6.8	13.0	50	36 - 69						
Vital Diagnostics Envoy 500	12	76.6	15.4	20.1	81	45 - 108						
VITROS 250,350,500,700,750,950	22	49.6	8.9	17.9	50	31 - 68						
All Chemistry Instruments	137	68.0	18.3	26.9	68	31 - 105						

LDL Cholesterol - Direct (mg/dL)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	65	65.3	15.6	23.9	64	34 - 97	65	26.4	10.9	41.1	26	4 - 49
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	51.3	2.0	3.9	52	35 - 67	12	16.9	1.2	7.3	17	11 - 22
Roche LDL Direct												
All Chemistry Instruments	10	96.7	5.3	5.5	97	67 - 126	10	49.0	2.0	4.1	48	34 - 64
Siemens Automated LDL												
Siemens Dimension	17	69.4	3.6	5.2	69	48 - 91	17	28.9	3.2	11.2	28	20 - 38
Specimen CH-8							Specimen CH-9					
All Method	65	35.8	12.0	33.7	35	11 - 60	65	59.9	14.9	24.9	59	30 - 90
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	25.3	1.5	5.9	25	17 - 33	12	46.8	2.1	4.5	47	32 - 61
Roche LDL Direct												
All Chemistry Instruments	10	60.6	2.8	4.6	59	42 - 79	10	90.4	4.3	4.7	91	63 - 118
Siemens Automated LDL												
Siemens Dimension	17	38.7	3.0	7.7	39	27 - 51	17	64.2	3.0	4.6	64	44 - 84
Specimen CH-10												
All Method	64	75.0	16.6	22.2	75	41 - 109						
Beckman AU Direct HDL / LDL												
Beckman AU systems	12	61.3	5.2	8.5	61	42 - 80						
Roche LDL Direct												
All Chemistry Instruments	10	108.9	5.4	4.9	110	76 - 142						
Siemens Automated LDL												
Siemens Dimension	16	79.7	4.0	5.1	79	55 - 104						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	241	102.6	13.2	12.9	100	71 - 134	248	63.2	13.5	21.4	61	44 - 83
All Dex-Sulfate 50,000 MW Methods	41	99.1	2.2	2.3	100	69 - 129	44	64.3	4.4	6.8	64	45 - 84
All Direct Methods	136	102.2	15.0	14.7	99	71 - 133	142	62.3	15.5	25.0	56	43 - 81
Alere Cholestech LDX												
Alere Cholestech LDX - waived	31	99.9	0.5	0.5	100	69 - 130	33	64.1	4.1	6.4	64	44 - 84
All Chemistry Instruments	35	99.5	1.6	1.6	100	69 - 130	37	63.9	4.4	6.8	64	44 - 84
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	19	89.5	8.3	9.2	88	62 - 117	19	49.6	5.2	10.6	49	34 - 65
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	90.9	4.1	4.5	90	71 - 134	10	50.8	3.5	6.8	51	44 - 83
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	97.6	6.3	6.5	97	68 - 127	23	53.7	4.0	7.4	54	37 - 70
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	85.1	6.1	7.2	87	59 - 111	16	47.1	3.3	7.0	47	32 - 62
Roche HDL Direct												
All Chemistry Instruments	15	118.2	5.8	4.9	119	82 - 154	15	83.0	2.6	3.1	84	58 - 108
Siemens Automated HDL												
Siemens Dimension	29	121.3	5.4	4.4	121	84 - 158	28	84.1	3.0	3.5	84	58 - 110
All Chemistry Instruments	31	121.2	5.2	4.3	121	84 - 158	30	84.0	3.0	3.5	84	58 - 110
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	11	96.9	8.1	8.4	98	67 - 126	11	55.0	7.2	13.1	56	38 - 72
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	22	105.2	4.6	4.4	105	73 - 137	24	67.0	2.7	4.1	67	46 - 88
All Chemistry Instruments	28	108.8	9.8	9.0	106	76 - 142	28	67.5	2.9	4.3	67	47 - 88

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	216	72.3	14.5	20.0	69	50 - 94	214	97.7	14.2	14.5	97	68 - 127
All Dex-Sulfate 50,000 MW Methods	16	73.4	6.5	8.9	73	51 - 96	16	99.9	4.2	4.2	100	69 - 130
All Direct Methods	139	72.1	16.1	22.4	64	50 - 94	137	97.0	15.4	15.9	92	67 - 127
Alere Cholestech LDX												
Alere Cholestech LDX - waived	8	-	-	-	71	51 - 96	8	-	-	-	100	69 - 130
All Chemistry Instruments	9	-	-	-	72	50 - 94	9	-	-	-	100	69 - 129
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	19	59.1	5.7	9.6	59	41 - 77	19	83.0	6.6	8.0	84	58 - 108
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	59.7	3.9	6.5	59	50 - 94	10	84.8	4.9	5.8	85	68 - 127
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	63.7	4.5	7.1	64	44 - 83	23	91.3	5.6	6.1	91	63 - 119
Horiba ABX Pentra												
Horiba ABX Pentra 400	16	55.4	3.8	6.9	55	38 - 73	16	79.8	4.2	5.2	79	55 - 104
Roche HDL Direct												
All Chemistry Instruments	15	93.0	2.8	3.0	93	65 - 121	14	113.6	4.0	3.5	115	79 - 148
Siemens Automated HDL												
Siemens Dimension	28	94.2	3.1	3.3	93	65 - 123	29	117.3	4.7	4.0	118	82 - 153
All Chemistry Instruments	30	94.1	3.0	3.2	93	65 - 123	31	117.2	4.6	3.9	118	82 - 153
Vital Diagnostics Direct												
Vital Diagnostics Envoy 500	11	63.1	5.8	9.2	64	44 - 83	11	90.7	9.9	10.9	91	63 - 118
VITROS dHDL Slide												
VITROS 250,350,500,700,750,950	24	74.8	3.0	3.9	74	52 - 98	22	100.2	3.6	3.6	100	70 - 131
All Chemistry Instruments	28	75.3	3.4	4.5	74	52 - 98	28	103.0	7.5	7.2	101	72 - 134

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	212	114.2	15.4	13.5	111	79 - 149
All Dex-Sulfate 50,000 MW Methods	16	108.0	11.6	10.8	100	75 - 141
All Direct Methods	135	113.9	15.8	13.9	110	79 - 149
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	100	75 - 141
All Chemistry Instruments	9	-	-	-	100	70 - 130
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	19	98.5	7.3	7.4	99	68 - 129
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	100.9	6.9	6.9	102	79 - 149
Beckman AU Direct HDL / LDL						
Beckman AU systems	23	109.8	6.9	6.3	109	76 - 143
Horiba ABX Pentra						
Horiba ABX Pentra 400	16	96.9	4.9	5.1	98	67 - 126
Roche HDL Direct						
All Chemistry Instruments	15	135.0	10.5	7.8	137	94 - 176
Siemens Automated HDL						
Siemens Dimension	28	131.3	5.4	4.1	131	91 - 171
All Chemistry Instruments	30	130.8	5.5	4.2	131	91 - 171
Vital Diagnostics Direct						
Vital Diagnostics Envoy 500	11	110.2	10.2	9.2	109	77 - 144
VITROS dHDL Slide						
VITROS 250,350,500,700,750,950	24	121.3	12.2	10.0	116	84 - 158
All Chemistry Instruments	28	121.5	13.4	11.0	116	85 - 158

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	245	203.7	10.9	5.4	201	152 - 255	245	87.3	5.4	6.2	88	65 - 110
All Alfa Wassermann Reagents	33	202.1	6.4	3.1	202	151 - 253	33	92.2	3.2	3.5	92	69 - 116
All Horiba Pentra Reagents	17	200.2	6.2	3.1	201	150 - 251	17	88.9	4.2	4.7	90	66 - 112
All Roche Integra/c111/c301/c501 Reagents	18	200.2	7.6	3.8	202	150 - 251	18	90.2	3.6	4.0	91	67 - 113
All Vital Diagnostics Reagents	14	199.8	6.8	3.4	199	149 - 250	15	90.5	10.2	11.3	87	67 - 114
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	204.6	9.3	4.5	204	153 - 256	33	87.8	4.0	4.6	87	65 - 110
All Chemistry Instruments	37	204.1	9.3	4.5	204	153 - 256	37	87.6	3.9	4.4	87	65 - 110
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	31	202.2	4.9	2.4	202	151 - 253	32	92.0	2.9	3.2	92	69 - 115
Beckman AU												
Beckman AU systems	32	198.9	4.1	2.1	199	149 - 249	32	85.9	2.4	2.8	86	64 - 108
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	200.2	6.2	3.1	201	150 - 251	17	88.9	4.2	4.7	90	66 - 112
Roche Integra												
Roche Integra	10	198.5	9.3	4.7	198	148 - 249	10	89.6	4.5	5.0	91	67 - 112
Siemens Healthcare												
Siemens Dimension	35	194.7	3.2	1.6	195	145 - 244	34	77.8	2.3	3.0	78	58 - 98
All Chemistry Instruments	35	194.7	3.2	1.6	195	145 - 244	35	77.5	2.8	3.7	78	58 - 97
Vital Diagnostics												
Vital Diagnostics Envoy 500	14	199.8	6.8	3.4	199	149 - 250	14	88.4	6.3	7.1	87	66 - 111
VITROS												
VITROS 250,350,500,700,750,950	28	222.8	5.4	2.4	222	167 - 279	29	89.4	2.1	2.4	90	67 - 112
All Chemistry Instruments	33	222.4	5.2	2.4	222	166 - 278	34	89.3	2.2	2.4	89	66 - 112

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	215	116.8	6.3	5.4	117	87 - 146	215	189.5	10.0	5.3	187	142 - 237
All Alfa Wassermann Reagents	33	120.4	3.4	2.8	121	90 - 151	33	189.4	5.8	3.1	190	142 - 237
All Horiba Pentra Reagents	17	118.4	3.8	3.2	118	88 - 148	17	187.4	6.6	3.5	187	140 - 235
All Roche Integra/c111/c301/c501 Reagents	18	118.3	4.6	3.9	119	88 - 148	18	186.7	5.6	3.0	189	140 - 234
All Vital Diagnostics Reagents	15	121.1	15.2	12.5	117	90 - 152	14	185.4	5.7	3.1	185	139 - 232
Alere Cholestech LDX												
Alere Cholestech LDX - waived	8	-	-	-	121	89 - 149	8	-	-	-	196	145 - 242
All Chemistry Instruments	9	-	-	-	120	88 - 149	9	-	-	-	195	143 - 240
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	32	120.1	3.0	2.5	121	90 - 151	32	188.9	5.1	2.7	190	141 - 237
Beckman AU												
Beckman AU systems	32	114.0	2.8	2.4	115	85 - 143	32	185.2	4.4	2.4	185	138 - 232
Horiba ABX Pentra												
Horiba ABX Pentra 400	17	118.4	3.8	3.2	118	88 - 148	17	187.4	6.6	3.5	187	140 - 235
Roche Integra												
Roche Integra	10	117.8	5.9	5.0	119	88 - 148	10	185.5	6.5	3.5	186	139 - 232
Siemens Healthcare												
Siemens Dimension	35	107.5	3.2	3.0	107	80 - 135	34	179.9	2.6	1.5	180	134 - 225
All Chemistry Instruments	35	107.5	3.2	3.0	107	80 - 135	35	180.1	3.1	1.7	180	135 - 226
Vital Diagnostics												
Vital Diagnostics Envoy 500	13	115.8	4.8	4.2	116	86 - 145	14	185.4	5.7	3.1	185	139 - 232
VITROS												
VITROS 250,350,500,700,750,950	29	122.3	2.8	2.3	122	91 - 153	29	206.5	4.5	2.2	206	154 - 259
All Chemistry Instruments	34	122.1	2.8	2.3	122	91 - 153	34	206.0	4.5	2.2	206	154 - 258

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	214	232.7	14.6	6.3	229	174 - 291
All Alfa Wassermann Reagents	33	229.6	7.1	3.1	230	172 - 287
All Horiba Pentra Reagents	17	227.5	5.5	2.4	228	170 - 285
All Roche Integra/c111/c301/c501 Reagents	18	225.9	8.3	3.7	229	169 - 283
All Vital Diagnostics Reagents	13	226.5	6.2	2.7	226	169 - 284
Alere Cholestech LDX						
Alere Cholestech LDX - waived	8	-	-	-	232	173 - 289
All Chemistry Instruments	9	-	-	-	223	171 - 287
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	32	229.0	6.3	2.8	230	171 - 287
Beckman AU						
Beckman AU systems	32	227.4	5.5	2.4	228	170 - 285
Horiba ABX Pentra						
Horiba ABX Pentra 400	17	227.5	5.5	2.4	228	170 - 285
Roche Integra						
Roche Integra	10	224.2	9.8	4.4	225	168 - 281
Siemens Healthcare						
Siemens Dimension	34	222.9	4.4	2.0	224	167 - 279
All Chemistry Instruments	35	223.5	5.6	2.5	224	167 - 280
Vital Diagnostics						
Vital Diagnostics Envoy 500	13	226.5	6.2	2.7	226	169 - 284
VITROS						
VITROS 250,350,500,700,750,950	29	259.9	6.0	2.3	260	194 - 325
All Chemistry Instruments	34	259.5	6.1	2.4	259	194 - 325

Acetaminophen (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	110.57	9.58	8.7	113.0	82.9 - 138.3	5	16.87	1.67	9.9	17.4	12.6 - 21.1
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	38.00	7.20	19.0	41.7	28.5 - 47.5	5	97.97	7.36	7.5	101.6	73.4 - 122.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	132.37	8.85	6.7	132.6	99.2 - 165.5						

Carbamazepine (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	11.68	1.00	8.5	11.5	8.7 - 14.6	5	3.10	0.22	7.2	3.1	2.3 - 3.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.32	0.50	9.3	5.4	3.9 - 6.7	5	10.98	0.79	7.2	10.8	8.2 - 13.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	10.18	0.86	8.5	10.1	7.6 - 12.8						

Digoxin (ng/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	2.49	0.29	11.6	2.4	1.9 - 3.0	10	0.68	0.09	13.5	0.7	0.4 - 0.9
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	1.16	0.16	14.2	1.2	0.9 - 1.4	10	2.28	0.26	11.5	2.2	1.8 - 2.8
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	3.00	0.37	12.4	3.0	2.4 - 3.6						

Gentamicin (µg/mL)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	8.65	0.49	5.7	8.7	6.4 - 10.9	5	0.90	0.14	15.7	0.9	0.6 - 1.2
Specimen CH-8							Specimen CH-9					
All Method	5	2.80	0.14	5.1	2.8	2.1 - 3.5	5	7.70	0.28	3.7	7.7	5.7 - 9.7
Specimen CH-10												
All Method	5	11.30	0.71	6.3	11.3	8.4 - 14.2						

Lithium (mmol/L)

Specimen CH-6							Specimen CH-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.25	0.07	3.1	2.3	1.8 - 2.7	5	0.30	0.14	47.1	0.3	0.0 - 0.6
Specimen CH-8							Specimen CH-9					
All Method	5	0.80	0.01	0.0	0.8	0.5 - 1.1	5	1.95	0.07	3.6	2.0	1.5 - 2.4
Specimen CH-10												
All Method	5	2.40	0.57	23.6	2.4	1.9 - 2.9						

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	5	8.80	0.01	0.0	8.8	7.0 - 10.6	5	2.65	0.21	8.0	2.7	2.1 - 3.2
<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	5	3.95	0.49	12.5	4.0	3.1 - 4.8	5	8.10	0.14	1.7	8.1	6.4 - 9.8
<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	5	10.85	0.64	5.9	10.9	8.6 - 13.1						

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	25.67	1.63	6.4	26.1	19.2 - 32.1	11	6.91	0.25	3.6	6.9	5.1 - 8.7
<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	11	11.57	0.18	1.6	11.6	8.6 - 14.5	11	23.57	0.99	4.2	23.4	17.6 - 29.5
<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	11	30.01	1.35	4.5	29.5	22.5 - 37.6						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	25.25	1.91	7.6	25.3	18.9 - 31.6	5	6.20	0.28	4.6	6.2	4.6 - 7.8
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	10.95	0.49	4.5	11.0	8.2 - 13.7	5	22.65	1.77	7.8	22.7	16.9 - 28.4
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	30.25	2.33	7.7	30.3	22.6 - 37.9						

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	32.33	1.89	5.9	31.5	24.2 - 40.5	5	9.50	0.30	3.2	9.5	7.1 - 11.9
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	14.80	0.53	3.6	14.6	11.1 - 18.5	5	29.57	1.29	4.3	30.1	22.1 - 37.0
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	36.80	0.98	2.7	37.1	27.6 - 46.0						

Valproic Acid (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	94.87	5.10	5.4	95.0	71.1 - 118.6	6	36.78	2.18	5.9	37.0	27.5 - 46.0
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	50.27	4.78	9.5	50.8	37.7 - 62.9	6	88.30	4.26	4.8	87.0	66.2 - 110.4
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	109.04	4.76	4.4	107.9	81.7 - 136.3						

Vancomycin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	36.27	4.63	12.8	35.0	27.2 - 45.4	5	2.33	0.65	27.9	2.3	1.7 - 3.0
	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	10.50	1.14	10.8	10.0	7.8 - 13.2	5	34.60	3.14	9.1	36.0	25.9 - 43.3
	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	47.63	4.46	9.4	48.0	35.7 - 59.6						

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	3	-	-	-	254	Not graded	3	-	-	-	95	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	131.0	8.7	6.6	136	98 - 164	5	45.0	4.4	9.7	47	33 - 57

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	0.10	0.15	153.2	0.0	0.0 - 0.5	24	18.40	0.93	5.1	18.7	14.7 - 22.1
No Reagent Required												
Bilirubinometer / Unistat	12	0.00	0.01	0.0	0.0	0.0 - 0.4	12	18.88	0.57	3.0	19.0	15.1 - 22.7
All Chemistry Instruments	16	0.10	0.18	182.6	0.0	0.0 - 0.5	16	18.66	0.67	3.6	18.8	14.9 - 22.4
<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	24	15.93	0.87	5.5	16.1	12.7 - 19.2	24	11.49	0.58	5.1	11.7	9.1 - 13.8
No Reagent Required												
Bilirubinometer / Unistat	12	16.48	0.36	2.2	16.5	13.1 - 19.8	12	11.67	0.32	2.7	11.8	9.3 - 14.1
All Chemistry Instruments	16	16.28	0.53	3.3	16.3	13.0 - 19.6	16	11.71	0.31	2.7	11.8	9.3 - 14.1
<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	24	5.87	0.34	5.8	5.9	4.6 - 7.1						
No Reagent Required												
Bilirubinometer / Unistat	12	5.67	0.22	3.9	5.8	4.5 - 6.9						
All Chemistry Instruments	16	5.83	0.34	5.9	5.8	4.6 - 7.0						

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	0.05	0.07	126.0	0.0	0.0 - 0.2	11	3.34	0.34	10.1	3.3	2.6 - 4.1
	Specimen NB-8						Specimen NB-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	4.96	0.45	9.2	5.0	4.0 - 5.9	11	3.69	0.40	10.8	3.8	2.8 - 4.5
	Specimen NB-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	0.81	0.16	20.3	0.8	0.4 - 1.2						

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	7.503	0.008	0.1	7.51	7.46 - 7.55	11	7.535	0.010	0.1	7.54	7.49 - 7.58
i-STAT	11	7.503	0.008	0.1	7.51	7.46 - 7.55	11	7.535	0.010	0.1	7.54	7.49 - 7.58
	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	7.505	0.008	0.1	7.51	7.46 - 7.55	11	7.232	0.010	0.1	7.23	7.19 - 7.28
i-STAT	11	7.505	0.008	0.1	7.51	7.46 - 7.55	11	7.232	0.010	0.1	7.23	7.19 - 7.28
	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	7.157	0.014	0.2	7.16	7.11 - 7.20						
i-STAT	11	7.157	0.014	0.2	7.16	7.11 - 7.20						

Blood Gases - pCO₂ (mmHg)

Specimen BG-6							Specimen BG-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	20.77	0.98	4.7	20.8	15.7 - 25.8	11	28.67	1.93	6.7	29.6	23.6 - 33.7
i-STAT	11	20.77	0.98	4.7	20.8	15.7 - 25.8	11	28.67	1.93	6.7	29.6	23.6 - 33.7
Specimen BG-8							Specimen BG-9					
All Method	11	25.10	2.44	9.7	25.3	20.1 - 30.1	11	49.17	2.85	5.8	49.6	44.1 - 54.2
i-STAT	11	25.10	2.44	9.7	25.3	20.1 - 30.1	11	49.17	2.85	5.8	49.6	44.1 - 54.2
Specimen BG-10												
All Method	11	67.00	2.79	4.2	66.7	61.6 - 72.4						
i-STAT	11	67.00	2.79	4.2	66.7	61.6 - 72.4						

Blood Gases - pO₂ (mmHg)

Specimen BG-6							Specimen BG-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	160.33	10.25	6.4	161.5	129.5 - 191.1	11	108.17	5.67	5.2	108.0	91.1 - 125.2
i-STAT	11	160.33	10.25	6.4	161.5	129.5 - 191.1	11	108.17	5.67	5.2	108.0	91.1 - 125.2
Specimen BG-8							Specimen BG-9					
All Method	11	134.67	6.15	4.6	137.0	116.2 - 153.2	11	178.00	9.63	5.4	181.0	149.1 - 206.9
i-STAT	11	134.67	6.15	4.6	137.0	116.2 - 153.2	11	178.00	9.63	5.4	181.0	149.1 - 206.9
Specimen BG-10												
All Method	11	89.67	7.12	7.9	88.0	68.3 - 111.1						
i-STAT	11	89.67	7.12	7.9	88.0	68.3 - 111.1						

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: 0.8 mmol/L , 0.9 mmol/L, 1.4 mmol/L, 0.58 mmol/L, and 2.2 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-6 through BG-10 are: 105 mmol/L, 107 mmol/L, 82 mmol/L, 117 mmol/L, and 87 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-6 through BG-10 are: 6.1 mmol/L, 6.8 mmol/L, 4.1 mmol/L, 6.6 mmol/L, and 3.8 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-6 through BG-10 are: 149 mmol/L, 167 mmol/L, 144 mmol/L, 168 mmol/L, and 141 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

Specimen BG-6							Specimen BG-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.13	0.06	5.1	1.1	0.9 - 1.4	5	0.93	0.06	6.2	0.9	0.7 - 1.2
i-STAT	5	1.13	0.06	5.1	1.1	0.9 - 1.4	5	0.93	0.06	6.2	0.9	0.7 - 1.2
Specimen BG-8							Specimen BG-9					
All Method	5	1.43	0.06	4.0	1.4	1.2 - 1.7	5	3.27	0.06	1.8	3.3	3.0 - 3.5
i-STAT	5	1.43	0.06	4.0	1.4	1.2 - 1.7	5	3.27	0.06	1.8	3.3	3.0 - 3.5
Specimen BG-10												
All Method	5	3.57	0.12	3.2	3.5	3.2 - 4.0						
i-STAT	5	3.57	0.12	3.2	3.5	3.2 - 4.0						

Afinion Glycohemoglobin (percent)

Specimen AFN-3							Specimen AFN-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Axis-Shield Afinion AS100	78	6.12	0.15	2.5	6.1	5.7 - 6.5	79	8.17	0.17	2.1	8.2	7.6 - 8.7

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	6	10.422	1.141	10.9	10.46	8.13 - 12.71	6	7.755	0.913	11.8	7.68	5.92 - 9.59

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	16	81.01	21.40	26.4	90.3	38.2 - 123.9	16	57.79	15.76	27.3	64.4	26.2 - 89.4

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	39	25.6	3.5	13.8	26	18 - 33	40	22.4	3.5	15.8	21	15 - 30
All TOSOH Instruments	10	27.7	1.9	7.0	28	23 - 32	10	23.2	1.9	8.1	24	19 - 27
Beckman ACCESS / 2 / Dxl	14	23.1	1.6	7.1	23	19 - 27	13	19.7	1.3	6.7	20	17 - 23

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	114	83.97	19.30	23.0	88.8	45.3 - 122.6	113	60.64	14.10	23.3	62.8	32.4 - 88.9
All Roche Instruments	11	47.92	4.19	8.7	48.9	39.5 - 56.4	11	36.25	3.10	8.5	36.9	30.0 - 42.5
All TOSOH Instruments	22	94.97	4.51	4.7	94.6	85.9 - 104.0	22	67.83	3.46	5.1	67.9	60.9 - 74.8
Abbott Architect	11	74.33	11.01	14.8	71.5	52.2 - 96.4	11	53.80	6.31	11.7	51.7	41.1 - 66.5
Beckman ACCESS / 2 / Dxl	42	87.89	9.00	10.2	87.8	69.8 - 105.9	42	61.88	5.58	9.0	62.2	50.7 - 73.1
Immuno Diagnostic Systems (IDS) - EIA	5	93.78	20.09	21.4	90.6	53.5 - 134.0	5	68.06	12.01	17.7	67.8	44.0 - 92.1
Qualigen FastPack	9	50.86	15.56	30.6	56.1	19.7 - 82.0	9	37.93	11.78	31.1	38.8	14.3 - 61.5
Roche cobas e 411	9	47.46	4.21	8.9	48.9	39.0 - 55.9	9	35.89	3.14	8.7	36.9	29.6 - 42.2
TOSOH AIA	12	94.31	4.61	4.9	93.4	85.0 - 103.6	12	67.34	3.56	5.3	67.4	60.2 - 74.5
TOSOH ST AIA	10	95.76	4.49	4.7	96.2	86.7 - 104.8	10	68.42	3.42	5.0	67.9	61.5 - 75.3

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-3						Specimen SHB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	Not reported	-	-	-	-	-	Not reported

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-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	1	-	-	-	9.0	Not graded	1	-	-	-	6.0	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	11	63.755	16.077	25.2	59.70	15.52 - 111.99	11	39.718	11.382	28.7	35.40	5.57 - 73.87
Beckman ACCESS / 2 / Dxl	5	64.580	12.441	19.3	62.00	27.25 - 101.91	5	43.280	12.500	28.9	38.30	5.77 - 80.79
Siemens Immulite/1000	5	55.280	5.921	10.7	52.90	37.51 - 73.05	5	32.640	3.443	10.5	31.00	22.31 - 42.97

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	11	558.8	123.0	22.0	495	391 - 727	11	308.5	85.4	27.7	306	215 - 401
All Immulite Instruments	4	698.3	82.7	11.8	730	488 - 908	4	352.8	42.9	12.2	338	246 - 459
Beckman ACCESS / 2 / Dxl	6	481.5	40.9	8.5	477	337 - 626	6	293.7	100.4	34.2	249	205 - 382
Siemens Immulite/1000	4	698.3	82.7	11.8	730	488 - 908	4	352.8	42.9	12.2	338	246 - 459

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	190	8.63	0.38	4.4	8.6	8.1 - 9.2	190	5.43	0.20	3.7	5.4	5.1 - 5.8
All Hemoglobin A1c Methods	187	8.63	0.37	4.3	8.6	8.1 - 9.2	188	5.43	0.20	3.7	5.4	5.1 - 5.8
All TOSOH Methods	23	8.32	0.22	2.6	8.3	7.8 - 8.9	22	5.41	0.12	2.2	5.4	5.0 - 5.8
Beckman AU A1c	17	8.42	0.32	3.8	8.3	7.9 - 9.0	17	5.38	0.23	4.3	5.3	5.0 - 5.8
Siemens DCA Vantage	83	8.80	0.25	2.8	8.8	8.2 - 9.4	82	5.49	0.12	2.3	5.5	5.1 - 5.9
Siemens Dimension HB1C	27	8.29	0.20	2.4	8.3	7.7 - 8.8	27	5.33	0.10	1.8	5.3	5.0 - 5.7
TOSOH G8	21	8.32	0.17	2.0	8.3	7.8 - 8.9	21	5.40	0.10	1.9	5.4	5.0 - 5.8

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	42	924.34	148.27	16.0	765.0	627.8 - 1220.9	42	64.11	21.83	34.1	56.7	20.4 - 107.8
Alere Triage	26	751.50	107.62	14.3	749.5	536.2 - 966.8	26	56.80	6.50	11.4	56.7	42.6 - 71.0
i-STAT - moderate	10	882.40	101.11	11.5	935.0	661.8 - 1103.0	10	53.48	12.83	24.0	50.0	27.8 - 79.2
<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	26	1723.21	208.04	12.1	1450.0	1292.4 - 2154.1	26	475.60	85.71	18.0	400.0	304.1 - 647.1
Alere Triage	12	1323.33	154.53	11.7	1345.0	992.4 - 1654.2	12	393.36	58.49	14.9	376.0	276.3 - 510.4
i-STAT - moderate	10	1727.60	181.73	10.5	1723.0	1295.7 - 2159.5	10	458.60	70.30	15.3	452.0	317.9 - 599.3
<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	26	2949.27	489.49	16.6	2570.0	1970.2 - 3928.3						
Alere Triage	12	2383.75	742.70	31.2	2400.0	898.3 - 3869.2						
i-STAT - moderate	10	2898.20	432.75	14.9	3117.0	2032.6 - 3763.8						

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	51	29.51	5.87	19.9	14.8	11.8 - 47.2	51	6.66	1.52	22.8	3.5	2.0 - 11.3
Alere Triage	23	12.11	2.80	23.2	12.2	3.6 - 20.6	23	2.88	0.54	18.8	2.8	1.2 - 4.6
Dade Stratus CS	11	30.50	0.83	2.7	30.6	28.0 - 33.0	11	6.83	0.27	3.9	6.8	6.0 - 7.7
Siemens Dimension	10	33.10	1.16	3.5	32.6	29.6 - 36.6	10	6.00	0.57	9.6	5.9	4.2 - 7.8
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	53.64	12.81	23.9	25.5	15.1 - 92.1	51	17.25	3.09	17.9	8.9	7.9 - 26.6
Alere Triage	23	21.03	3.58	17.0	21.2	10.2 - 31.8	23	7.60	1.37	18.0	8.0	3.4 - 11.7
Dade Stratus CS	11	54.43	1.76	3.2	54.3	49.1 - 59.8	11	18.25	0.47	2.6	18.2	16.8 - 19.7
Siemens Dimension	10	65.10	1.27	2.0	65.6	61.2 - 69.0	10	18.12	0.51	2.8	18.3	16.5 - 19.7
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	51	102.60	25.19	24.6	43.2	27.0 - 178.2						
Alere Triage	23	37.68	3.98	10.6	37.1	25.7 - 49.7						
Dade Stratus CS	11	108.75	4.41	4.1	108.7	95.5 - 122.0						
Siemens Dimension	10	127.12	4.82	3.8	124.5	112.6 - 141.6						

D-Dimer (ng/mL)

Specimen CK-6							Specimen CK-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	1056.6	230.9	21.9	1105	594 - 1519	39	527.5	55.0	10.4	600	369 - 686
Alere Triage	24	1062.8	105.2	9.9	1090	743 - 1382	24	625.7	54.6	8.7	636	437 - 814
Dade Stratus CS	11	1179.0	38.1	3.2	1176	825 - 1533	11	534.5	42.8	8.0	522	374 - 695
Specimen CK-8							Specimen CK-9					
All Method	39	1633.0	346.4	21.2	1575	940 - 2326	39	790.4	116.3	14.7	831	553 - 1028
Alere Triage	24	1524.8	133.5	8.8	1520	1067 - 1983	24	833.3	47.0	5.6	831	583 - 1084
Dade Stratus CS	11	1759.0	103.0	5.9	1748	1231 - 2287	11	832.8	33.5	4.0	841	582 - 1083
Specimen CK-10												
All Method	39	2495.1	489.7	19.6	2260	1515 - 3475						
Alere Triage	24	2212.4	136.1	6.2	2210	1548 - 2877						
Dade Stratus CS	11	2675.3	122.6	4.6	2683	1872 - 3478						

D-Dimer (µgFEU/mL)

Specimen CK-6							Specimen CK-7					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	-	-	-	-	-	-	-
Specimen CK-8							Specimen CK-9					
All Method	-	-	-	-	-	-	-	-	-	-	-	-
Specimen CK-10												
All Method	-	-	-	-	-	-						

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	26	125.53	25.74	20.5	132.5	74.0 - 177.1	26	29.63	3.07	10.4	32.7	20.7 - 38.6
Alere Triage	19	134.15	20.65	15.4	137.0	92.8 - 175.5	19	35.95	7.15	19.9	34.1	21.6 - 50.3
	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	220.90	46.52	21.1	216.0	127.8 - 314.0	26	77.20	11.57	15.0	87.1	54.0 - 100.4
Alere Triage	19	212.21	31.03	14.6	216.0	148.5 - 275.9	19	85.23	10.56	12.4	87.9	59.6 - 110.8
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	421.73	109.59	26.0	317.0	202.5 - 641.0						
Alere Triage	19	320.26	46.49	14.5	307.0	224.1 - 416.4						

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	7	624.3	225.4	36.1	602	173 - 1075	7	33.0	14.5	44.0	34	3 - 63
Siemens Dimension NT-proBNP	5	525.3	132.2	25.2	593	260 - 790	5	27.7	12.1	43.6	29	3 - 52
	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	7	1154.3	244.5	21.2	1294	665 - 1644	7	243.7	69.1	28.3	263	105 - 382
Siemens Dimension NT-proBNP	5	1154.3	244.5	21.2	1294	665 - 1644	5	243.7	69.1	28.3	263	105 - 382
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	2613.7	492.0	18.8	2764	1629 - 3598						
Siemens Dimension NT-proBNP	5	2613.7	492.0	18.8	2764	1629 - 3598						

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	52	2.964	3.963	133.7	1.04	0.00 - 10.89	52	0.116	0.151	130.6	0.05	0.00 - 0.42
All HS Troponin I Methods	14	13.573	8.078	59.5	10.59	0.00 - 29.73	14	0.516	0.331	64.1	0.44	0.00 - 1.18
Alere Triage	23	0.980	0.289	29.5	1.03	0.40 - 1.56	23	0.050	0.001	0.0	0.05	0.03 - 0.07
Dade Stratus CS	11	1.050	0.024	2.3	1.06	0.73 - 1.37	11	0.025	0.008	33.5	0.03	0.00 - 0.05
i-STAT - moderate	10	9.550	0.976	10.2	9.18	6.68 - 12.42	10	0.448	0.045	10.2	0.43	0.31 - 0.59
<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	52	7.742	9.011	116.4	3.15	0.00 - 25.77	52	1.407	2.006	142.6	0.47	0.00 - 5.42
All HS Troponin I Methods	14	26.381	10.999	41.7	24.71	4.38 - 48.38	14	6.739	4.152	61.6	5.37	0.00 - 15.05
Alere Triage	23	3.197	0.705	22.0	3.19	1.78 - 4.61	23	0.398	0.095	23.9	0.40	0.20 - 0.59
Dade Stratus CS	11	2.143	0.038	1.8	2.14	1.50 - 2.79	11	0.515	0.014	2.7	0.51	0.36 - 0.67
i-STAT - moderate	10	21.252	3.604	17.0	21.00	14.04 - 28.47	10	5.020	0.400	8.0	5.12	3.51 - 6.53
<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	52	15.569	16.637	106.9	8.23	0.00 - 48.85						
All HS Troponin I Methods	14	43.600	9.226	21.2	40.33	25.14 - 62.06						
Alere Triage	23	8.320	0.946	11.4	8.32	5.82 - 10.82						
Dade Stratus CS	11	4.218	0.138	3.3	4.18	2.95 - 5.49						
i-STAT - moderate	10	40.980	4.162	10.2	40.35	28.68 - 53.28						

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	0.2835	0.0205	7.2	0.284	0.198 - 0.369	5	0.0775	0.0020	2.6	0.078	0.054 - 0.101
Roche Elecsys 1010/2010	5	0.2835	0.0205	7.2	0.284	0.198 - 0.369	5	0.0775	0.0020	2.6	0.078	0.054 - 0.101
<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	0.4500	0.0226	5.0	0.450	0.315 - 0.585	5	0.1545	0.0035	2.2	0.155	0.108 - 0.201
Roche Elecsys 1010/2010	5	0.4500	0.0226	5.0	0.450	0.315 - 0.585	5	0.1545	0.0035	2.2	0.155	0.108 - 0.201
<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	0.7790	0.0410	5.3	0.779	0.545 - 1.013						
Roche Elecsys 1010/2010	5	0.7790	0.0410	5.3	0.779	0.545 - 1.013						

PSA (ng/mL)

<u>Method</u>	Specimen PS-3						Specimen PS-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	24.078	3.654	15.2	23.65	16.85 - 31.31	147	16.696	2.946	17.6	16.20	11.68 - 21.71
All TOSOH Instruments	39	20.572	0.794	3.9	20.53	14.40 - 26.75	39	13.943	0.523	3.8	13.95	9.75 - 18.13
Abbott Architect	13	20.756	1.245	6.0	21.01	14.52 - 26.99	13	14.030	0.674	4.8	13.96	9.82 - 18.24
Beckman ACCESS / 2 / Dxl	24	27.419	1.343	4.9	27.36	19.19 - 35.65	24	18.514	0.920	5.0	18.39	12.95 - 24.07
Beckman ACCESS Hybritech PSA	22	26.857	1.703	6.3	26.83	18.80 - 34.92	21	18.593	0.643	3.5	18.65	13.01 - 24.18
Siemens Dimension TPSA	17	23.113	0.862	3.7	23.06	16.17 - 30.05	17	15.538	0.553	3.6	15.43	10.87 - 20.20
TOSOH AIA	18	20.513	0.851	4.1	20.53	14.35 - 26.67	18	13.943	0.514	3.7	13.97	9.75 - 18.13
TOSOH ST AIA	21	20.623	0.760	3.7	20.53	14.43 - 26.81	21	13.943	0.544	3.9	13.95	9.75 - 18.13

Beta-2 microglobulin

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	2.779	1.108	39.9	3.20	0.00 - 6.11	7	1.979	0.809	40.9	2.30	0.00 - 4.41

CA 125 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	108.1	12.9	11.9	123	75 - 141	12	76.2	8.4	11.1	86	53 - 100
All TOSOH Instruments	12	200.7	19.4	9.7	202	140 - 261	12	137.7	8.2	5.9	139	96 - 179
TOSOH ST AIA	10	201.3	20.7	10.3	204	140 - 262	10	138.0	8.7	6.3	139	96 - 180

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	42.3	7.7	18.2	42	26 - 58	10	32.2	5.6	17.5	32	20 - 44

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	148.6	62.7	42.2	168	23 - 274	10	106.1	44.5	42.0	125	17 - 196

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	238.7	30.4	12.7	246	167 - 311	10	180.5	16.4	9.1	188	126 - 235
All TOSOH Instruments	10	238.7	30.4	12.7	246	167 - 311	10	180.5	16.4	9.1	188	126 - 235

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	13	31.75	5.51	17.4	36.8	22.2 - 41.3	13	20.95	3.34	16.0	23.0	14.6 - 27.3

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	15	4.206	0.814	19.4	3.81	2.94 - 5.47	15	2.797	0.569	20.3	2.50	1.89 - 3.70

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	39	4.419	0.823	18.6	4.60	3.09 - 5.75	39	2.964	0.525	17.7	3.10	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	64.40	20.67	32.1	52.6	23.0 - 105.8	5	42.90	15.58	36.3	33.8	11.7 - 74.1

CEA (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	21.45	3.15	14.7	24.5	15.0 - 27.9	14	14.99	1.90	12.7	17.2	10.4 - 19.5
All TOSOH Instruments	12	26.87	2.62	9.7	26.4	18.8 - 35.0	12	19.12	1.55	8.1	19.1	13.3 - 24.9
TOSOH ST AIA	10	27.23	3.21	11.8	26.4	18.8 - 35.0	10	19.40	1.89	9.7	19.3	13.3 - 24.9

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	322.48	38.00	11.8	324.1	225.7 - 419.3	13	238.55	26.25	11.0	239.0	166.9 - 310.2
Beckman ACCESS / 2 / Dxl	10	319.71	36.33	11.4	324.1	223.7 - 415.7	10	231.27	16.83	7.3	234.0	161.8 - 300.7

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	437.5	138.4	31.6	386	160 - 715	35	337.8	129.5	38.3	291	78 - 597
All TOSOH Instruments	11	387.4	55.5	14.3	378	276 - 499	11	293.6	38.7	13.2	280	216 - 372

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	48	215.0	35.7	16.6	172	150 - 280	48	152.8	24.6	16.1	118	106 - 199
All Abbott Instruments	10	252.2	10.3	4.1	254	176 - 328	10	181.2	8.5	4.7	181	126 - 236
All TOSOH Instruments	25	152.8	6.2	4.1	152	106 - 199	25	105.5	5.8	5.5	106	73 - 138
Abbott Architect	10	252.2	10.3	4.1	254	176 - 328	10	181.2	8.5	4.7	181	126 - 236
Beckman ACCESS / 2 / Dxl	37	168.0	9.6	5.7	168	117 - 219	38	115.9	6.3	5.4	116	81 - 151
TOSOH AIA	10	153.7	3.8	2.5	154	107 - 200	10	104.6	5.3	5.0	106	73 - 136
TOSOH ST AIA	15	152.2	7.4	4.9	151	106 - 198	15	106.1	6.2	5.8	107	74 - 138

Folate (ng/mL)

Specimen SC-3							Specimen SC-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	5.36	1.62	30.2	6.5	3.7 - 7.0	53	3.44	1.14	33.1	4.2	2.4 - 4.5
All Roche Elecsys/Cobas Instruments	12	4.89	0.66	13.5	4.7	3.4 - 6.4	12	2.81	0.41	14.6	2.7	1.9 - 3.8
All Siemens Dimension Instruments	10	3.42	0.26	7.6	3.4	2.3 - 4.5	10	2.46	0.27	11.0	2.4	1.5 - 3.4
All TOSOH Instruments	12	4.60	0.71	15.4	4.5	3.2 - 6.0	12	3.45	0.51	14.9	3.4	2.4 - 4.5
Abbott Architect	11	7.57	1.21	16.0	7.2	5.2 - 9.9	11	4.90	1.05	21.5	4.5	3.4 - 6.4
Beckman ACCESS / 2 / Dxl	38	7.14	0.63	8.9	7.0	4.9 - 9.3	38	4.77	0.43	9.0	4.8	3.3 - 6.3
Roche cobas e 411	11	4.82	0.76	15.8	4.6	3.3 - 6.3	11	2.72	0.39	14.3	2.6	1.8 - 3.7
TOSOH AIA	10	4.52	0.75	16.5	4.1	3.1 - 5.9	10	3.37	0.48	14.3	3.4	2.3 - 4.4

FSH (mIU/mL)

Specimen SC-3							Specimen SC-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	42.18	3.45	8.2	42.0	31.6 - 52.8	38	32.10	2.45	7.6	31.7	24.0 - 40.2
Beckman ACCESS / 2 / Dxl	13	42.29	3.67	8.7	42.0	31.7 - 52.9	13	31.87	2.37	7.4	31.3	23.9 - 39.9

Homocysteine (μmol/L)

Specimen SC-3							Specimen SC-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	58.9	9.5	16.2	56	44 - 74	10	43.6	3.9	9.1	44	32 - 55

LH (mIU/mL)

Specimen SC-3							Specimen SC-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	57.03	16.80	29.5	51.7	23.4 - 90.7	38	39.72	10.99	27.7	36.1	17.7 - 61.8
Beckman ACCESS / 2 / Dxl	14	48.07	3.45	7.2	47.7	41.1 - 55.0	14	33.41	2.50	7.5	33.1	28.4 - 38.5

Progesterone (ng/mL)

Specimen SC-3							Specimen SC-4					
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	25	35.47	5.95	16.8	35.0	24.8 - 46.2	25	27.26	5.85	21.5	26.3	19.0 - 35.5

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	25	52.49	7.64	14.5	52.3	36.7 - 68.3	25	37.09	5.07	13.7	36.1	25.9 - 48.3

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	81	1199.8	232.5	19.4	1138	839 - 1560	82	949.6	176.3	18.6	900	664 - 1235
All Immulite Instruments	11	1251.0	230.0	18.4	1313	875 - 1627	11	1072.0	165.1	15.4	1172	750 - 1394
All Roche Elecsys/Cobas Instruments	10	1367.3	72.9	5.3	1340	957 - 1778	10	1010.2	54.4	5.4	991	707 - 1314
All TOSOH Instruments	21	1520.9	116.5	7.7	1490	1064 - 1978	21	1200.9	102.1	8.5	1185	840 - 1562
Abbott Architect	10	1208.5	225.0	18.6	1171	845 - 1572	10	1001.7	50.0	5.0	1000	701 - 1303
Beckman ACCESS / 2 / Dxl	36	1080.1	97.5	9.0	1102	756 - 1405	36	848.1	56.3	6.6	852	593 - 1103
Qualigen FastPack	11	864.2	44.7	5.2	853	604 - 1124	11	764.4	100.9	13.2	749	535 - 994
TOSOH AIA	11	1253.7	482.1	38.5	1443	877 - 1630	11	1205.0	97.7	8.1	1185	843 - 1567
TOSOH ST AIA	10	1556.3	127.7	8.2	1548	1089 - 2024	10	1198.5	109.8	9.2	1199	838 - 1559

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	15	263.1	12.3	4.7	257	236 - 290	15	201.9	7.5	3.7	201	181 - 223

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	99	1004.6	124.0	12.3	978	703 - 1306	100	758.2	88.2	11.6	753	530 - 986
All Roche Elecsys/Cobas Instruments	10	1211.9	219.7	18.1	1158	848 - 1576	10	832.0	68.8	8.3	836	582 - 1082
All TOSOH Instruments	17	1093.2	96.8	8.9	1090	765 - 1422	17	843.2	77.6	9.2	826	590 - 1097
Beckman ACCESS / 2 / Dxl	46	904.7	60.3	6.7	903	633 - 1177	46	685.0	39.1	5.7	694	479 - 891
TOSOH AIA	12	1096.3	110.5	10.1	1111	767 - 1426	12	834.6	79.2	9.5	823	584 - 1085

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	62.5	4.0	6.5	64	46 - 79	5	19.5	1.0	5.1	20	14 - 25
	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	105.0	10.3	9.8	104	78 - 132	5	63.8	6.8	10.6	65	47 - 80
	Specimen ETH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	5	295.8	31.5	10.7	296	221 - 370						

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	12	-	1	6	5	12	12	-	-	-
Siemens Acetest	9	-	1	5	3	9	9	-	-	-
	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	12	12	-	-	-	12	-	-	1	11
Siemens Acetest	9	9	-	-	-	9	-	-	1	8
	Specimen ETH-10									
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>					
ALL METHODS	12	12	-	-	-					
Siemens Acetest	9	9	-	-	-					

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	5.217	6.613	126.8	2.20	0.00 - 18.45	14	290.905	33.303	11.4	292.88	224.29 - 357.52

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	19	5.495	8.519	155.0	1.20	0.00 - 22.54	18	14.298	10.201	71.3	9.00	0.00 - 34.70
Beckman ACCESS / 2 / Dxl	10	1.850	2.515	135.9	1.00	0.00 - 6.88	9	-	-	-	8.20	0.00 - 34.70

Ammonia (μmol/L)

<u>Method</u>	Specimen AMM-3						Specimen AMM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	49.6	11.9	24.0	53	25 - 74	5	196.0	18.1	9.2	204	159 - 233

Urine Drug Screen

Acetaminophen (μg/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	5	-	5	5	-

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	78	1	77	78	76	2
Cut-off 250						
Alere iCup	1	-	1	1	1	-
Medica EasyRA	1	-	1	1	1	-
All Cut-off 250	2	-	2	2	2	-
Cut-off 300						
Alere iCup	1	-	1	1	1	-
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 300	3	-	3	3	3	-
Cut-off 500						
Beckman AU	2	-	2	2	2	-
ImmTox	2	-	2	2	2	-
Immunalysis	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Medica EasyRA	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	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 500	16	-	16	16	16	-

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>
Cut-off 1000						
Abbott Architect	1	-	1	1	1	-
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	-
AMBC Rapid Drug/Tox	1	-	1	1	1	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
Bio-Rad TOX/See	2	-	2	2	2	-
BMC QuickTox Drug Screen	2	-	2	2	2	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
Innovacon Multi-CLIN Drug Screen	1	-	1	1	1	-
Innovacon Multi-Drug One Step	1	-	1	1	1	-
InstaCheck Drug Screen	1	-	1	1	1	-
Lin-Zhi International	6	-	6	6	6	-
MEDTOX Diagnostics	1	-	1	1	1	-
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	-
USDiagnostics One Step Multi-Drug	1	-	1	1	1	-
USDiagnostics UScreen Cup	5	-	5	5	5	-
All Cut-off 1000	45	-	45	45	45	-

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	11	-	11	11	9	2
Cut-off 500						
Beckman AU	3	-	3	3	3	-
ImmTox	2	-	2	1	-	1
Siemens EMIT II Plus	2	-	2	3	3	-
All Cut-off 500	6	-	6	6	5	1
Cut-off 1000						
AMBC Rapid Drug/Tox	1	-	1	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 1000	4	-	4	4	2	2

Barbiturates (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	67	1	66	67	-	67
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	6	-	6	6	-	6
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	3	-	3	3	-	3
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	2	-	2	2	-	2
Roche Cobas 8000 / c502	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	31	-	31	31	-	31
Cut-off 300						
Alere iCassette	2	-	2	2	-	2
Alere iCup	7	-	7	7	-	7
Alere Triage	1	-	1	1	-	1
Amedica Biotech AmediCheck	2	-	2	2	-	2
Bio-Rad TOX/See	2	-	2	2	-	2
BMC QuickTox Drug Screen	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 300	25	-	25	25	-	25

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	78	77	1	78	-	78
Cut-off 100						
Beckman AU	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
All Cut-off 100	2	2	-	2	-	2
Cut-off 150						
Medica EasyRA	2	1	1	2	-	2
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 150	7	6	1	7	-	7
Cut-off 200						
Abbott Architect	1	1	-	1	-	1
Beckman AU	5	5	-	5	-	5
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
ImmTox	2	2	-	2	-	2
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Lin-Zhi International	6	6	-	6	-	6
Microgenics DRI	3	3	-	3	-	3
Roche Cobas 8000 / c502	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	6	6	-	6	-	6
Synermed IR 500	1	1	-	1	-	1
All Cut-off 200	29	29	-	29	-	29
Cut-off 300						
Alere iCassette	2	2	-	2	-	2
Alere iCup	7	7	-	7	-	7
Alere iScreen	1	1	-	1	-	1
Alere Triage	1	1	-	1	-	1
Alfa Scientific Instant-View	1	1	-	1	-	1
Amedica Biotech AmediCheck	1	1	-	1	-	1
Bio-Rad TOX/See	2	2	-	2	-	2
BMC QuickTox Drug Screen	3	3	-	3	-	3
Discover Multi-Panel Drug Screen Test Cup	1	1	-	1	-	1
MEDTOX Diagnostics	1	1	-	1	-	1
Microgenics DRI	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	4	4	-	4	-	4
All Cut-off 300	29	29	-	29	-	29

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	40	1	39	40	-	40
Cut-off 5						
Beckman AU	4	-	4	4	-	4
ImmTox	2	-	2	2	-	2
Immunalysis	1	1	-	1	-	1
Lin-Zhi International	5	-	5	5	-	5
Medica EasyRA	2	-	2	2	-	2
Microgenics CEDIA	4	-	4	4	-	4
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	21	1	20	21	-	21
Cut-off 10						
Alere iCup	2	-	2	2	-	2
Alere iScreen	1	-	1	1	-	1
Chemtron Biotech	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics CEDIA	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
All Cut-off 10	13	-	13	13	-	13
Cut-off 20						
Indiko Plus	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	92	90	2	92	-	92
Cut-off 20						
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 20	1	1	-	1	-	1
Cut-off 50						
Abbott Architect	1	1	-	1	-	1
Alere iCassette	2	2	-	2	-	2
Alere iCup	7	7	-	7	-	7
Alere Triage	1	1	-	1	-	1
Alfa Scientific Instant-View	5	5	-	5	-	5
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	6	6	-	6	-	6
Bio-Rad TOX/See	2	2	-	2	-	2
BMC QuickTox Drug Screen	3	3	-	3	-	3
Carolina Chemistries BioLis 24i	2	2	-	2	-	2
Discover Multi-Panel Drug Screen Test Cup	1	1	-	1	-	1
Germaine Laboratories AimScreen	2	2	-	2	-	2
ImmTox	2	2	-	2	-	2
Immunalysis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
Lin-Zhi International	6	6	-	6	-	6
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	6	-	6	-	6
Microgenics DRI	6	6	-	6	-	6
Noble Medical Inc.	1	1	-	1	-	1
Roche Cobas 8000 / c502	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	4	4	-	4	-	4
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	4	4	-	4	-	4
All Cut-off 50	76	75	1	76	-	76

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	94	-	94	94	-	94
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
Medica EasyRA	2	-	2	2	-	2
All Cut-off 100	3	-	3	3	-	3
Cut-off 150						
Alere iCup	2	-	2	2	-	2
Beckman AU	4	-	4	4	-	4
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 150	20	-	20	20	-	20
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	5	-	5	5	-	5
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	5	-	5	5	-	5
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BMC QuickTox Drug Screen	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Germaine Laboratories AimScreen	2	-	2	2	-	2
Innovacon Multi-CLIN Drug Screen	1	-	1	1	-	1
Innovacon Multi-Drug One Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
Lin-Zhi International	5	-	5	5	-	5
MEDTOX Diagnostics	1	-	1	1	-	1
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	3	-	3	3	-	3
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 300	54	-	54	54	-	54

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	4	-	4	4	-	4
Cut-off 100						
ImmTox	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

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	12	2	14	12	2
Cut-off 10						
Siemens EMIT II Plus	1	1	-	1	1	-
All Cut-off 10	1	1	-	1	1	-
Cut-off 20						
Microgenics DRI	1	1	-	1	1	-
Siemens EMIT II Plus	1	1	-	1	1	-
All Cut-off 20	2	2	-	2	2	-
Cut-off 100						
Beckman AU	2	2	-	2	2	-
Carolina Chemistries BioLis 24i	1	1	-	1	1	-
Lin-Zhi International	4	4	-	4	4	-
Microgenics DRI	1	1	-	1	1	-
Synermed IR 500	1	-	1	1	-	1
All Cut-off 100	9	8	1	9	8	1
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	7	-	7	7	-	7
Cut-off 2						
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 2	5	-	5	5	-	5

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	2	-	2	2	-	2

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	32	-	32	32	1	31
Cut-off 100						
Discover Multi-Panel Drug Screen Test Cup	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 300						
Amedica Biotech AmediCheck	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Alere iCassette	1	-	1	1	-	1
Alere iCup	6	-	6	6	-	6
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	2	-	2	2	-	2
BMC QuickTox Drug Screen	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 500	22	-	22	22	-	22

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	69	-	69	69	1	68
Cut-off 150						
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 150	2	-	2	2	-	2
Cut-off 200						
MEDTOX Diagnostics	4	-	4	4	-	4
All Cut-off 200	4	-	4	4	-	4
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	5	-	5	5	-	5
Alfa Scientific Instant-View	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Beckman AU	5	-	5	5	-	5
Bio-Rad TOX/See	2	-	2	2	-	2
BMC QuickTox Drug Screen	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	5	-	5	5	-	5
Medica EasyRA	2	-	2	2	-	2
Microgenics DRI	6	-	6	6	-	6
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 300	50	-	50	50	-	50
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	49	-	49	49	1	48
Cut-off 500						
Alere iCup	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
BMC QuickTox Drug Screen	2	-	2	2	-	2
ImmTox	2	-	2	2	-	2
Immunalysis	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
All Cut-off 500	15	-	15	15	-	15
Cut-off 1000						
Alere iCassette	2	-	2	2	-	2
Alere iCup	6	-	6	6	-	6
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	2	-	2	2	-	2
Innovacon Multi-Drug One Step	1	-	1	1	-	1
Integrated E-Z Split Key Cup / II	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	4	-	4	4	-	4
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	2	-	2	2	-	2

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	7	-	7	7	-	7
Cut-off 10						
Beckman AU	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	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	98	2	96	98	1	97
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Medica EasyRA	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 100	8	-	8	8	-	8
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	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
Bio-Rad TOX/See	5	-	5	5	-	5
BMC QuickTox Drug Screen	2	-	2	2	-	2
ImmTox	2	-	2	2	-	2
Immunalysis	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	1	-	1	1	-	1
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200	1	-	1	1	-	1
Roche Cobas 8000 / c502	4	-	4	4	-	4
Roche Integra	1	-	1	1	-	1
Siemens Dimension	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	1	-
Synermed IR 500	6	-	6	6	-	6
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

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

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Cut-off 2000						
Alere iCassette	2	-	2	2	-	2
Alere iCup	6	-	6	6	-	6
Alfa Scientific Instant-View	3	-	3	3	-	3
Amedica Biotech AmediCheck	1	-	1	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Germaine Laboratories						
AimScreen	2	-	2	2	-	2
Innovacon Multi-CLIN Drug						
Screen	1	-	1	1	-	1
Innovacon Multi-Drug One						
Step	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
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	3	1	2	3	-	3
All Cut-off 2000	27	1	26	27	-	27

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	61	-	61	61	60	1
Cut-off 100						
Alere iCassette	2	-	2	2	2	-
Alere iCup	7	-	7	7	7	-
Alere iScreen	1	-	1	1	1	-
Amedica Biotech AmediCheck	1	-	1	1	1	-
Beckman AU	5	-	5	5	5	-
Bio-Rad TOX/See	2	-	2	2	2	-
BMC QuickTox Drug Screen	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
ImmTox	2	-	2	2	2	-
Immunalysis	1	-	1	1	1	-
Lin-Zhi International	3	-	3	3	3	-
Medica EasyRA	2	-	2	2	2	-
MEDTOX Diagnostics	4	-	4	4	4	-
Microgenics DRI	7	-	7	7	7	-
Roche Integra	2	-	2	2	2	-
USDiagnostics UScreen Cup	3	-	3	3	3	-
All Cut-off 100	49	-	49	49	49	-
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 300	4	-	4	4	3	1

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	59	57	2	59	-	59
Cut-off 25						
Abbott Architect	1	1	-	1	-	1
Alere iCassette	2	2	-	2	-	2
Alere iCup	4	3	1	4	-	4
Alere Triage	1	1	-	1	-	1
Alfa Scientific Instant-View	1	1	-	1	-	1
Amedica Biotech AmediCheck	1	1	-	1	-	1
Beckman AU	5	5	-	5	-	5
Bio-Rad TOX/See	2	2	-	2	-	2
BMC QuickTox Drug Screen	3	2	1	3	-	3
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
Discover Multi-Panel Drug Screen Test Cup	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
Innovacon Multi-CLIN Drug Screen	1	1	-	1	-	1
Innovacon Multi-Drug One Step	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
Integrated E-Z Split Key Cup / II	1	1	-	1	-	1
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	3	3	-	3	-	3
Noble Medical Inc.	1	1	-	1	-	1
Roche Cobas 8000 / c502	1	1	-	1	-	1
Siemens EMIT II Plus	3	3	-	3	-	3
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics Proscreen	1	1	-	1	-	1
USDiagnostics UScreen Cup	4	4	-	4	-	4
All Cut-off 25	48	46	2	48	-	48

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	17	-	17	17	-	17
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	3	-	3	3	-	3
Beckman AU	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
All Cut-off 300	15	-	15	15	-	15

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	5	-	5	5	-	5
Cut-off 200						
Beckman AU	2	-	2	2	-	2
ImmTox	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
All Cut-off 200	4	-	4	4	-	4

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	24	-	24	24	-	24
Cut-off 300						
Beckman AU	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
All Cut-off 300	5	-	5	5	-	5
Cut-off 1000						
Alere iCassette	1	-	1	1	-	1
Alere iCup	4	-	4	4	-	4
Alere Triage	1	-	1	1	-	1
Amedica Biotech AmediCheck	1	-	1	1	-	1
Bio-Rad TOX/See	2	-	2	2	-	2
BMC QuickTox Drug Screen	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	12	-	12	12	-	12

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	296	339.3	47.5	14.0	343	271 - 408	307	86.5	22.4	25.9	82	69 - 104
All Abbott Methods	22	344.0	23.9	6.9	340	275 - 413	23	72.8	6.8	9.4	71	58 - 88
All Arkray Methods	13	352.7	31.9	9.0	354	282 - 424	19	91.9	8.3	9.1	93	73 - 111
All Bayer Methods	47	275.4	17.7	6.4	274	220 - 331	49	58.2	6.4	11.0	56	46 - 71
All Hemocue Methods	74	348.8	6.5	1.9	348	279 - 419	74	118.2	6.1	5.2	119	94 - 142
All Lifescan Methods	27	371.1	36.9	9.9	382	296 - 446	27	80.7	6.1	7.5	80	64 - 97
All Roche Methods	34	329.1	11.6	3.5	329	263 - 395	34	78.0	2.4	3.0	78	62 - 94
Abbott FreeStyle Lite/Freedom Lite	10	327.8	10.6	3.2	331	262 - 394	10	71.2	2.4	3.4	71	56 - 86
Abbott Precision XceedPro	10	344.9	17.4	5.0	352	275 - 414	10	68.9	5.0	7.3	70	55 - 83
Arkray Platinum	12	347.1	25.7	7.4	349	277 - 417	17	92.9	7.7	8.3	93	74 - 112
Bayer Contour	47	275.4	17.7	6.4	274	220 - 331	49	58.2	6.4	11.0	56	46 - 71
HemoCue 201	74	348.8	6.5	1.9	348	279 - 419	74	118.2	6.1	5.2	119	94 - 142
Home Diagnostics True Balance / TrueTrack	11	600.1	0.4	0.1	600	480 - 721	14	234.4	15.2	6.5	238	187 - 282
Lifescan One Touch Ultra/2/Mini	18	386.9	29.1	7.5	386	309 - 465	18	83.1	5.6	6.8	83	66 - 100
LifeScan OneTouch Verio	11	330.7	10.7	3.2	327	264 - 397	11	75.3	2.7	3.6	75	60 - 91
Medline EvenCare G2 / G3	16	368.7	19.0	5.2	362	294 - 443	18	96.4	5.9	6.1	97	77 - 116
NOVA Biomedical StatStrip	22	290.4	15.4	5.3	286	232 - 349	23	71.0	6.8	9.6	69	56 - 86
PSS Quintet / AC	25	425.0	18.7	4.4	423	340 - 510	24	84.0	7.0	8.4	85	67 - 101
Roche Accu-Chek Aviva	12	325.1	12.6	3.9	322	260 - 391	12	77.4	1.8	2.3	78	61 - 93
Roche Accu-Chek Inform II	13	326.7	10.1	3.1	323	261 - 393	13	77.6	2.4	3.0	78	62 - 94
Roche Accu-Chek Performa	14	333.4	12.0	3.6	334	266 - 401	14	78.7	2.6	3.3	79	62 - 95
	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	64.3	5.2	8.2	64	51 - 78	14	194.6	19.1	9.8	197	155 - 234
All Abbott Methods	2	-	-	-	66	52 - 80	2	-	-	-	196	156 - 236
All Lifescan Methods	11	62.3	2.9	4.6	62	49 - 75	11	202.3	16.1	7.9	210	161 - 243
All Roche Methods	2	-	-	-	66	52 - 80	2	-	-	-	173	138 - 207
Lifescan One Touch Ultra/2/Mini	10	62.4	3.0	4.9	63	49 - 75	10	207.3	8.0	3.9	210	165 - 249
LifeScan OneTouch Verio	1	-	-	-	61	49 - 75	1	-	-	-	167	161 - 243
Medline EvenCare G2 / G3	1	-	-	-	79	51 - 78	1	-	-	-	209	155 - 234
Roche Accu-Chek Inform II	1	-	-	-	64	51 - 78	1	-	-	-	166	155 - 234
Roche Accu-Chek Performa	1	-	-	-	68	51 - 78	1	-	-	-	179	155 - 234

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	279.4	28.1	10.1	292	223 - 336
All Abbott Methods	2	-	-	-	282	225 - 339
All Lifescan Methods	11	293.4	21.0	7.2	300	234 - 353
All Roche Methods	2	-	-	-	248	198 - 297
Lifescan One Touch Ultra/2/Mini	10	300.4	7.2	2.4	305	240 - 361
LifeScan OneTouch Verio	1	-	-	-	244	234 - 353
Medline EvenCare G2 / G3	1	-	-	-	278	223 - 336
Roche Accu-Chek Inform II	1	-	-	-	240	223 - 336
Roche Accu-Chek Performa	1	-	-	-	255	223 - 336

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	360	Not graded	1	-	-	-	362	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	4.60	0.57	12.3	4.6	3.1 - 6.1	5	4.65	0.49	10.6	4.7	3.2 - 6.1

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	265	Not graded	1	-	-	-	269	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	187.73	13.09	7.0	192.5	155.8 - 219.7	9	186.64	11.90	6.4	191.0	154.9 - 218.4

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	233	Not graded	1	-	-	-	233	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	8.8	Not graded	1	-	-	-	8.7	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	1	-	-	-	846	Not graded	1	-	-	-	845	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	1	-	-	-	57.4	Not graded	1	-	-	-	57.7	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	104.20	4.24	4.1	104.2	73.9 - 134.5	5	104.90	3.68	3.5	104.9	74.4 - 135.4

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	191.3	10.1	5.3	186	141 - 242	5	191.3	8.5	4.4	188	141 - 242

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	9	99.87	9.36	9.4	100.3	55.9 - 143.9	9	100.72	10.69	10.6	100.3	56.4 - 145.1

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	1	-	-	-	530	Not graded	1	-	-	-	619	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	1	-	-	-	8.9	Not graded	1	-	-	-	8.8	Not graded

Medical Laboratory Evaluation
 25 Massachusetts Ave NW Ste 700
 Washington, DC 20001-7401
 800-338-2746 • 202-261-4500 • Fax: 202-835-0440
www.acponline.org/mle