

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2019 MLE-M3



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

Table of Contents

Evaluation Criteria	3	Homocysteine	107
Acetaminophen	85	Insulin	97
Acetone	109	Iron.....	26
Adulterated Urine	110	Lactate Dehydrogenase.....	62
Albumin	9	Lactate (Lactic Acid)	27
Alcohol, Serum	109	LDL Cholesterol, Calculated	77
Alkaline Phosphatase.....	52	LDL Cholesterol, Direct.....	78
Alpha-fetoprotein (AFP).....	65	LH	107
ALT (SGPT).....	49	Lipase	64
Ammonia	110	Lithium	87
Amylase (Serum).....	60	Magnesium	27
Apolipoprotein A1	91	Myoglobin	101
Apolipoprotein B	91	NT-proBNP	101
AST (SGOT).....	55	Parathyroid Hormone, Intact	97
Beta-2 Microglobulin.....	104	Phenobarbital.....	88
Bilirubin, Direct (CH Specimens).....	12	Phenytoin.....	88
Bilirubin, Direct (NB Specimens)	92	Phosphorus.....	29
Bilirubin, Neonatal (Total).....	91	Potassium (CH Specimens).....	43
Bilirubin, Total.....	14	Potassium (IST Specimens)	4
Blood Gases.....	92	Progesterone	107
BNP	99	Prolactin.....	108
C-Peptide	97	Protein, Total.....	31
CA 125	104	PSA (PS Specimens).....	104
CA 15-3	104	PSA (TM Specimens)	105
CA 19-9	104	PSA, Free	105
CA 27/29	105	Salicylate	89
Calcium	17	Sex Hormone Binding Globulin (SHBG)	98
Calcium, Ionized (IST Specimens)	8	Sodium (CH Specimens)	45
Carbamazepine	85	Sodium (IST Specimens).....	4
CEA (SC Specimens).....	106	T3, Free	67
CEA (TM Specimens).....	105	T3 Uptake (% Uptake)	66
Chloride (CH Specimens).....	39	tCO ₂ (IST Specimens).....	5
Chloride (IST Specimens)	5	Testosterone (SC Samples).....	108
Cholesterol, Total	74	Testosterone (SHB Samples)	98
CK-MB.....	99	Testosterone, Bioavailable.....	98
CO ₂ (CH Specimens).....	41	Testosterone, Free.....	98
Cortisol	65	Theophylline.....	89
Creatine Kinase.....	58	Thyroglobulin	105
Creatinine (CH Specimens).....	20	Thyroglobulin Antibody	110
Creatinine (IST Specimens)	8	Thyroid Peroxidase Antibody (TPO)	110
D-Dimer	100	Thyroxine, Free.....	69
DHEA-S.....	106	Thyroxine, Total T4	68
Digoxin	86	TIBC, Calculated.....	47
Estradiol	106	TIBC, Direct	47
Ethyl Glucuronide	113	Transferrin	108
Ferritin	106	Triglycerides.....	82
Folate	107	Triiodothyronine, Total T3	66
FSH	107	Troponin I.....	102
Gentamicin	87	Troponin T	103
GGT	59	TSH.....	70
Glucose, Whole Blood (WBG Specimens)	95	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)	94	Uric Acid	37
Glycohemoglobin (GH Specimens)	95	Urine Chemistry	136
HCG, Serum—Qualitative	71	Urine Drug Screen	113
HCG, Serum—Quantitative	73	Valproic Acid.....	90
Hematocrit.....	7	Vancomycin	90
Hemoglobin	7	Vitamin B12.....	108
HDL Cholesterol.....	79	Vitamin D (25-Hydroxy).....	97

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

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	125.3	0.6	0.5	125	121 - 130	102	147.5	0.6	0.4	147	143 - 152
All i-STAT Instruments	104	125.3	0.6	0.5	125	121 - 130	102	147.5	0.6	0.4	147	143 - 152
i-STAT - waived	96	125.3	0.6	0.5	125	121 - 130	94	147.5	0.7	0.4	147	143 - 152
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	137.5	0.7	0.5	137	133 - 142	88	125.2	0.5	0.4	125	121 - 130
All i-STAT Instruments	91	137.5	0.7	0.5	137	133 - 142	88	125.2	0.5	0.4	125	121 - 130
i-STAT - waived	83	137.4	0.7	0.5	137	133 - 142	80	125.2	0.5	0.4	125	121 - 130
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	91	168.7	0.7	0.4	169	164 - 173						
All i-STAT Instruments	91	168.7	0.7	0.4	169	164 - 173						
i-STAT - waived	83	168.7	0.7	0.4	169	164 - 173						

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	2.77	0.05	1.7	2.8	2.2 - 3.3	104	4.22	0.04	0.9	4.2	3.7 - 4.8
All i-STAT Instruments	104	2.77	0.05	1.7	2.8	2.2 - 3.3	104	4.22	0.04	0.9	4.2	3.7 - 4.8
i-STAT - moderate	10	2.76	0.05	1.9	2.8	2.2 - 3.3	10	4.21	0.03	0.8	4.2	3.7 - 4.8
i-STAT - waived	94	2.77	0.05	1.7	2.8	2.2 - 3.3	94	4.22	0.04	0.9	4.2	3.7 - 4.8
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	4.40	0.01	0.0	4.4	3.9 - 4.9	90	2.77	0.05	1.7	2.8	2.2 - 3.3
All i-STAT Instruments	88	4.40	0.01	0.0	4.4	3.9 - 4.9	90	2.77	0.05	1.7	2.8	2.2 - 3.3
i-STAT - moderate	10	4.40	0.01	0.0	4.4	3.9 - 4.9	10	2.75	0.05	1.9	2.8	2.2 - 3.3
i-STAT - waived	78	4.40	0.01	0.0	4.4	3.9 - 4.9	80	2.77	0.05	1.6	2.8	2.2 - 3.3
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	91	6.50	0.04	0.6	6.5	6.0 - 7.0						
All i-STAT Instruments	91	6.50	0.04	0.6	6.5	6.0 - 7.0						
i-STAT - moderate	10	6.49	0.03	0.5	6.5	5.9 - 7.0						
i-STAT - waived	81	6.50	0.04	0.6	6.5	6.0 - 7.1						

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	75.3	0.6	0.8	75	71 - 80	103	84.5	0.7	0.8	84	80 - 89
All i-STAT Instruments	100	75.3	0.6	0.8	75	71 - 80	103	84.5	0.7	0.8	84	80 - 89
i-STAT - moderate	10	74.8	1.0	1.4	75	71 - 79	10	84.6	0.8	1	85	80 - 89
i-STAT - waived	92	75.3	0.6	0.9	75	71 - 80	93	84.5	0.7	0.8	84	80 - 89
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	91.6	0.7	0.7	92	87 - 97	88	75.0	0.6	0.8	75	71 - 79
All i-STAT Instruments	90	91.6	0.7	0.7	92	87 - 97	88	75.0	0.6	0.8	75	71 - 79
i-STAT - moderate	10	91.1	1.0	1.1	91	86 - 96	10	74.6	0.8	1.1	75	70 - 79
i-STAT - waived	81	91.7	0.7	0.7	92	87 - 97	80	75.0	0.6	0.8	75	71 - 79
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	89	115.4	0.7	0.6	115	109 - 122						
All i-STAT Instruments	89	115.4	0.7	0.6	115	109 - 122						
i-STAT - moderate	10	115.2	0.9	0.8	116	109 - 121						
i-STAT - waived	79	115.4	0.7	0.6	115	109 - 122						

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	96	23.8	1.0	4.0	24	19 - 29	95	20.8	0.7	3.1	21	16 - 25
All i-STAT Instruments	96	23.8	1.0	4.0	24	19 - 29	95	20.8	0.7	3.1	21	16 - 25
i-STAT - waived	88	23.8	1.0	4.1	24	19 - 29	89	20.8	0.7	3.5	21	16 - 25
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	27.7	0.9	3.4	28	22 - 34	85	23.9	0.9	3.7	24	19 - 29
All i-STAT Instruments	86	27.7	0.9	3.4	28	22 - 34	85	23.9	0.9	3.7	24	19 - 29
i-STAT - waived	78	27.7	0.9	3.4	28	22 - 34	77	23.9	0.9	3.8	24	19 - 29
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	87	23.8	0.8	3.2	24	19 - 29						
All i-STAT Instruments	87	23.8	0.8	3.2	24	19 - 29						
i-STAT - waived	79	23.8	0.8	3.2	24	19 - 29						

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	68.1	1.2	1.8	68	61 - 75	102	37.6	0.6	1.7	38	34 - 41
All i-STAT Instruments	101	68.1	1.2	1.8	68	61 - 75	102	37.6	0.6	1.7	38	34 - 41
i-STAT - waived	92	68.1	1.2	1.8	68	61 - 75	93	37.6	0.6	1.7	38	34 - 42
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	36.3	0.7	1.9	36	33 - 40	90	68.0	1.1	1.6	68	61 - 75
All i-STAT Instruments	91	36.3	0.7	1.9	36	33 - 40	90	68.0	1.1	1.6	68	61 - 75
i-STAT - waived	82	36.3	0.7	1.9	36	33 - 40	81	68.0	1.2	1.7	68	61 - 75
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	90	16.2	0.4	2.5	16	14 - 19						
All i-STAT Instruments	90	16.2	0.4	2.5	16	14 - 19						
i-STAT - waived	81	16.2	0.4	2.5	16	14 - 19						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	177.7	1.6	0.9	178	159 - 196	98	130.3	1.2	0.9	130	117 - 144
All i-STAT Instruments	103	177.7	1.6	0.9	178	159 - 196	98	130.3	1.2	0.9	130	117 - 144
i-STAT - waived	94	177.6	1.6	0.9	178	159 - 196	90	130.3	1.2	0.9	130	117 - 144
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	86.4	1.2	1.4	87	77 - 96	90	177.4	1.5	0.9	177	159 - 196
All i-STAT Instruments	88	86.4	1.2	1.4	87	77 - 96	90	177.4	1.5	0.9	177	159 - 196
i-STAT - waived	80	86.4	1.2	1.4	87	77 - 96	81	177.3	1.6	0.9	177	159 - 196
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	90	75.7	1.0	1.3	76	68 - 84						
All i-STAT Instruments	90	75.7	1.0	1.3	76	68 - 84						
i-STAT - waived	81	75.7	1.0	1.3	76	68 - 84						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	20.5	0.7	3.5	20	19 - 22	17	35.9	1.1	3.1	35	33 - 39
All i-STAT Instruments	17	20.5	0.7	3.5	20	19 - 22	17	35.9	1.1	3.1	35	33 - 39
i-STAT - waived	16	20.5	0.7	3.6	20	19 - 22	16	35.9	1.1	3.1	36	33 - 39
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	36.0	0.1	0.0	36	33 - 39	12	19.9	0.4	1.9	20	18 - 22
All i-STAT Instruments	12	36.0	0.1	0.0	36	33 - 39	12	19.9	0.4	1.9	20	18 - 22
i-STAT - waived	10	36.0	0.1	0.0	36	33 - 39	10	19.8	0.4	2.1	20	18 - 22
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	28.9	0.4	1.3	29	27 - 31						
All i-STAT Instruments	12	28.9	0.4	1.3	29	27 - 31						
i-STAT - waived	10	28.8	0.4	1.4	29	27 - 31						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	6.97	0.24	3.5	6.8	6.4 - 7.5	17	12.19	0.38	3.1	11.9	11.3 - 13.1
All i-STAT Instruments	17	6.97	0.24	3.5	6.8	6.4 - 7.5	17	12.19	0.38	3.1	11.9	11.3 - 13.1
i-STAT - waived	16	6.96	0.25	3.6	6.8	6.4 - 7.5	16	12.21	0.38	3.1	12.1	11.3 - 13.1
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	12.20	0.01	0.0	12.2	11.3 - 13.1	12	6.76	0.11	1.7	6.8	6.2 - 7.3
All i-STAT Instruments	12	12.20	0.01	0.0	12.2	11.3 - 13.1	12	6.76	0.11	1.7	6.8	6.2 - 7.3
i-STAT - waived	10	12.20	0.01	0.0	12.2	11.3 - 13.1	10	6.75	0.12	1.8	6.8	6.2 - 7.3
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	9.84	0.15	1.5	9.9	9.1 - 10.6						
All i-STAT Instruments	12	9.84	0.15	1.5	9.9	9.1 - 10.6						
i-STAT - waived	10	9.83	0.16	1.7	9.9	9.1 - 10.6						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	113	3.92	0.15	3.8	3.9	3.3 - 4.6	114	1.73	0.07	4.1	1.7	1.4 - 2.1
All i-STAT Instruments	113	3.92	0.15	3.8	3.9	3.3 - 4.6	114	1.73	0.07	4.1	1.7	1.4 - 2.1
i-STAT - waived	104	3.92	0.15	3.8	3.9	3.3 - 4.6	105	1.73	0.07	4.2	1.7	1.4 - 2.1
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	2.56	0.10	3.8	2.6	2.1 - 3.0	88	3.95	0.14	3.6	4.0	3.3 - 4.6
All i-STAT Instruments	89	2.56	0.10	3.8	2.6	2.1 - 3.0	88	3.95	0.14	3.6	4.0	3.3 - 4.6
i-STAT - waived	80	2.56	0.10	3.9	2.6	2.1 - 3.0	79	3.95	0.15	3.8	4.0	3.3 - 4.6
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	90	0.80	0.04	4.8	0.8	0.5 - 1.2						
All i-STAT Instruments	90	0.80	0.04	4.8	0.8	0.5 - 1.2						
i-STAT - waived	81	0.80	0.04	4.8	0.8	0.5 - 1.1						

Ionized Calcium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	2.058	0.021	1.0	2.06	1.99 - 2.13	95	1.171	0.009	0.7	1.17	1.14 - 1.20
All i-STAT Instruments	95	2.058	0.021	1.0	2.06	1.99 - 2.13	95	1.171	0.009	0.7	1.17	1.14 - 1.20
i-STAT - waived	87	2.057	0.022	1.0	2.06	1.99 - 2.13	87	1.171	0.009	0.7	1.17	1.14 - 1.20
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	86	1.307	0.010	0.8	1.31	1.27 - 1.34	85	2.068	0.020	1.0	2.07	2.00 - 2.13
All i-STAT Instruments	86	1.307	0.010	0.8	1.31	1.27 - 1.34	85	2.068	0.020	1.0	2.07	2.00 - 2.13
i-STAT - waived	78	1.307	0.010	0.8	1.31	1.27 - 1.34	77	2.068	0.020	0.9	2.07	2.00 - 2.13
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	85	0.857	0.007	0.8	0.86	0.83 - 0.88						
All i-STAT Instruments	85	0.857	0.007	0.8	0.86	0.83 - 0.88						
i-STAT - waived	77	0.858	0.007	0.8	0.86	0.83 - 0.88						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	209	3.12	0.31	10.0	3.2	2.8 - 3.5	206	2.13	0.15	6.9	2.2	1.9 - 2.4
All Bromocresol Green Reagents	150	3.29	0.15	4.7	3.3	2.9 - 3.7	150	2.17	0.15	7.0	2.2	1.9 - 2.4
All Bromocresol Purple Reagents	53	2.66	0.07	2.7	2.7	2.3 - 3.0	54	2.02	0.08	3.9	2.0	1.8 - 2.3
Abaxis Piccolo												
Abaxis Piccolo - waived	18	2.68	0.09	3.3	2.7	2.4 - 3.0	18	2.06	0.08	3.8	2.0	1.8 - 2.3
All Chemistry Instruments	23	2.69	0.08	3.0	2.7	2.4 - 3.0	23	2.07	0.07	3.4	2.1	1.8 - 2.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	18	3.31	0.08	2.3	3.3	2.9 - 3.7	18	2.27	0.08	3.4	2.3	2.0 - 2.5
Beckman AU												
Beckman AU systems	34	3.28	0.08	2.4	3.3	2.9 - 3.7	34	2.16	0.07	3.0	2.2	1.9 - 2.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	3.21	0.09	2.8	3.2	2.8 - 3.6	20	2.22	0.06	2.8	2.2	1.9 - 2.5
Roche Integra												
Roche Integra	18	3.43	0.10	2.8	3.4	3.0 - 3.8	18	2.21	0.04	1.9	2.2	1.9 - 2.5
Siemens Healthcare												
Siemens Dimension	29	2.64	0.07	2.8	2.6	2.3 - 3.0	28	1.98	0.05	2.4	2.0	1.7 - 2.2
All Chemistry Instruments	31	2.65	0.07	2.7	2.6	2.3 - 3.0	31	1.98	0.06	3.1	2.0	1.7 - 2.2
VITROS												
VITROS 250,350,400 500,700,750,950	28	3.09	0.11	3.6	3.1	2.7 - 3.4	27	1.91	0.06	3.0	1.9	1.7 - 2.2
All Chemistry Instruments	29	3.10	0.12	4.0	3.1	2.7 - 3.5	30	1.89	0.10	5.2	1.9	1.7 - 2.1

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	191	2.36	0.18	7.4	2.4	2.1 - 2.6	194	2.97	0.27	8.9	3.0	2.6 - 3.3
All Bromocresol Green Reagents	149	2.41	0.15	6.3	2.4	2.1 - 2.7	150	3.10	0.14	4.6	3.1	2.7 - 3.5
All Bromocresol Purple Reagents	39	2.14	0.07	3.3	2.1	1.9 - 2.4	38	2.54	0.06	2.4	2.5	2.2 - 2.8
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.2	1.9 - 2.4	3	-	-	-	2.5	2.2 - 2.8
All Chemistry Instruments	8	-	-	-	2.2	2.0 - 2.5	8	-	-	-	2.6	2.3 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	2.51	0.04	1.7	2.5	2.2 - 2.8	18	3.14	0.08	2.7	3.2	2.8 - 3.5
Beckman AU												
Beckman AU systems	33	2.39	0.07	2.9	2.4	2.1 - 2.7	34	3.09	0.07	2.2	3.1	2.7 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	2.44	0.08	3.4	2.5	2.1 - 2.7	20	3.03	0.10	3.2	3.0	2.7 - 3.4
Roche Integra												
Roche Integra	18	2.47	0.07	2.7	2.5	2.2 - 2.8	18	3.20	0.10	3.0	3.2	2.8 - 3.6
Siemens Healthcare												
Siemens Dimension	29	2.12	0.06	2.9	2.1	1.9 - 2.4	28	2.53	0.05	2.1	2.5	2.2 - 2.8
All Chemistry Instruments	31	2.12	0.06	2.9	2.1	1.9 - 2.4	30	2.53	0.05	2.1	2.5	2.2 - 2.8
VITROS												
VITROS 250,350,400 500,700,750,950	27	2.17	0.06	2.8	2.2	1.9 - 2.4	28	2.91	0.11	3.7	2.9	2.6 - 3.3
All Chemistry Instruments	28	2.18	0.06	3.0	2.2	1.9 - 2.4	29	2.92	0.11	3.8	2.9	2.6 - 3.3

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	193	3.56	0.36	10.0	3.7	3.2 - 4.0
All Bromocresol Green Reagents	150	3.72	0.15	4.1	3.7	3.3 - 4.1
All Bromocresol Purple Reagents	38	2.93	0.06	2.1	2.9	2.6 - 3.3
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	2.9	2.6 - 3.3
All Chemistry Instruments	8	-	-	-	2.9	2.6 - 3.3
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	18	3.74	0.10	2.6	3.8	3.3 - 4.2
Beckman AU						
Beckman AU systems	33	3.70	0.08	2.2	3.7	3.3 - 4.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	3.55	0.11	3.1	3.6	3.1 - 4.0
Roche Integra						
Roche Integra	18	3.87	0.10	2.6	3.9	3.4 - 4.3
Siemens Healthcare						
Siemens Dimension	28	2.94	0.06	2.1	2.9	2.6 - 3.3
All Chemistry Instruments	30	2.94	0.06	2.1	2.9	2.6 - 3.3
VITROS						
VITROS 250,350,400 500,700,750,950	28	3.67	0.15	4.2	3.7	3.3 - 4.1
All Chemistry Instruments	29	3.68	0.16	4.3	3.7	3.3 - 4.1

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	123	1.21	0.32	26.5	1.2	0.5 - 1.9	123	0.25	0.13	51.4	0.2	0.0 - 0.6
All Alfa Wassermann Reagents	13	1.46	0.20	13.8	1.5	1.0 - 1.9	13	0.40	0.08	20.4	0.4	0.2 - 0.6
All Roche Reagents	22	0.95	0.06	6.3	1.0	0.8 - 1.1	22	0.20	0.01	0.0	0.2	0.1 - 0.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	13	1.46	0.20	13.8	1.5	1.0 - 1.9	13	0.40	0.08	20.4	0.4	0.2 - 0.6
Beckman AU												
Beckman AU systems	23	1.44	0.08	5.8	1.4	1.2 - 1.7	24	0.35	0.06	16.6	0.4	0.2 - 0.5
Roche Integra												
Roche Integra	11	0.98	0.04	4.1	1.0	0.9 - 1.1	11	0.20	0.01	0.0	0.2	0.1 - 0.3
Siemens Healthcare												
Siemens Dimension	21	0.96	0.06	6.1	1.0	0.8 - 1.1	21	0.18	0.04	24.8	0.2	0.0 - 0.3
All Chemistry Instruments	24	0.97	0.06	6.4	1.0	0.8 - 1.1	24	0.18	0.04	23.2	0.2	0.0 - 0.3
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	1.06	0.38	36.3	1.2	0.2 - 1.9	17	0.10	0.11	111.8	0.1	0.0 - 0.4
<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	122	0.42	0.18	43.4	0.4	0.0 - 0.8	123	1.03	0.29	28.3	0.9	0.4 - 1.7
All Alfa Wassermann Reagents	13	0.59	0.09	14.6	0.6	0.4 - 0.8	13	1.29	0.16	12.4	1.3	0.9 - 1.7
All Roche Reagents	22	0.32	0.04	12.4	0.3	0.2 - 0.4	22	0.80	0.06	7.2	0.8	0.6 - 1.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	13	0.59	0.09	14.6	0.6	0.4 - 0.8	13	1.29	0.16	12.4	1.3	0.9 - 1.7
Beckman AU												
Beckman AU systems	23	0.58	0.06	10.4	0.6	0.4 - 0.7	23	1.25	0.08	6.8	1.3	1.0 - 1.5
Roche Integra												
Roche Integra	11	0.30	0.01	0.0	0.3	0.2 - 0.4	11	0.81	0.05	6.7	0.8	0.7 - 1.0
Siemens Healthcare												
Siemens Dimension	21	0.30	0.01	0.0	0.3	0.2 - 0.4	21	0.80	0.06	7.9	0.8	0.6 - 1.0
All Chemistry Instruments	23	0.30	0.01	0.0	0.3	0.2 - 0.4	24	0.81	0.07	8.1	0.8	0.6 - 1.0
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	17	0.25	0.18	73.1	0.3	0.0 - 0.7	17	0.85	0.30	35.7	0.9	0.2 - 1.5

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	123	1.58	0.40	25.0	1.6	0.7 - 2.4
All Alfa Wassermann Reagents	13	1.95	0.22	11.4	2.0	1.5 - 2.4
All Roche Reagents	22	1.24	0.10	8.5	1.2	1.0 - 1.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	13	1.95	0.22	11.4	2.0	1.5 - 2.4
Beckman AU						
Beckman AU systems	23	1.86	0.16	8.4	1.9	1.5 - 2.2
Roche Integra						
Roche Integra	11	1.31	0.07	5.4	1.3	1.1 - 1.5
Siemens Healthcare						
Siemens Dimension	21	1.30	0.07	5.4	1.3	1.1 - 1.5
All Chemistry Instruments	24	1.31	0.07	5.5	1.3	1.1 - 1.5
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	17	1.44	0.45	31.2	1.5	0.5 - 2.4

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	205	3.14	0.28	8.9	3.1	2.5 - 3.8	205	0.82	0.13	15.2	0.8	0.4 - 1.3
All Alfa Wassermann Reagents	24	3.63	0.17	4.6	3.6	2.9 - 4.4	24	1.03	0.06	5.9	1.0	0.6 - 1.5
All Horiba Pentra Reagents	20	3.04	0.15	4.9	3.0	2.4 - 3.7	20	0.81	0.08	9.7	0.8	0.4 - 1.3
All Roche T. bili Special Reagents	24	2.85	0.12	4.3	2.9	2.2 - 3.5	24	0.75	0.07	8.8	0.8	0.3 - 1.2
Abaxis Piccolo												
Abaxis Piccolo - waived	18	2.89	0.13	4.4	2.9	2.3 - 3.5	17	0.88	0.07	7.6	0.9	0.4 - 1.3
All Chemistry Instruments	22	2.92	0.14	4.8	3.0	2.3 - 3.6	21	0.88	0.06	6.8	0.9	0.4 - 1.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	3.63	0.17	4.6	3.6	2.9 - 4.4	23	1.02	0.06	5.9	1.0	0.6 - 1.5
Beckman AU												
Beckman AU systems	33	3.17	0.18	5.7	3.2	2.5 - 3.9	33	0.86	0.07	7.6	0.9	0.4 - 1.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	3.04	0.15	4.9	3.0	2.4 - 3.7	20	0.81	0.08	9.7	0.8	0.4 - 1.3
Roche Integra-T. bili Gen.3												
Roche Integra	12	2.85	0.09	3.2	2.9	2.2 - 3.5	12	0.76	0.05	6.8	0.8	0.3 - 1.2
All Chemistry Instruments	14	2.81	0.13	4.6	2.9	2.2 - 3.4	14	0.74	0.06	8.7	0.8	0.3 - 1.2
Siemens Healthcare												
Siemens Dimension	28	3.14	0.12	3.9	3.1	2.5 - 3.8	28	0.80	0.04	5.3	0.8	0.4 - 1.3
All Chemistry Instruments	30	3.13	0.12	3.8	3.1	2.5 - 3.8	30	0.80	0.05	5.7	0.8	0.4 - 1.2
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	28	3.33	0.30	9.0	3.3	2.6 - 4.0	28	0.66	0.10	15.6	0.7	0.2 - 1.1
All Chemistry Instruments	29	3.33	0.29	8.8	3.3	2.6 - 4.0	29	0.66	0.10	15.5	0.7	0.2 - 1.1

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	189	1.29	0.14	11.0	1.3	0.8 - 1.7	190	2.73	0.25	9.3	2.7	2.1 - 3.3
All Alfa Wassermann Reagents	24	1.55	0.10	6.3	1.6	1.1 - 2.0	24	3.19	0.17	5.4	3.2	2.5 - 3.9
All Horiba Pentra Reagents	20	1.26	0.07	5.4	1.3	0.8 - 1.7	20	2.62	0.15	5.7	2.6	2.0 - 3.2
All Roche T. bili Special Reagents	24	1.17	0.08	6.4	1.2	0.7 - 1.6	24	2.47	0.13	5.4	2.5	1.9 - 3.0
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	1.4	0.8 - 1.7	3	-	-	-	2.6	2.1 - 3.3
All Chemistry Instruments	7	-	-	-	1.3	0.9 - 1.8	7	-	-	-	2.6	2.3 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	1.55	0.10	6.4	1.5	1.1 - 2.0	23	3.19	0.17	5.5	3.1	2.5 - 3.9
Beckman AU												
Beckman AU systems	32	1.34	0.09	6.5	1.3	0.9 - 1.8	33	2.76	0.15	5.4	2.7	2.2 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	1.26	0.07	5.4	1.3	0.8 - 1.7	20	2.62	0.15	5.7	2.6	2.0 - 3.2
Roche Integra-T. bili Gen.3												
Roche Integra	12	1.18	0.04	3.3	1.2	0.7 - 1.6	12	2.48	0.11	4.3	2.5	1.9 - 3.0
All Chemistry Instruments	14	1.16	0.06	5.4	1.2	0.7 - 1.6	14	2.44	0.14	5.7	2.5	1.9 - 3.0
Siemens Healthcare												
Siemens Dimension	28	1.26	0.06	4.4	1.3	0.8 - 1.7	28	2.69	0.09	3.5	2.7	2.1 - 3.3
All Chemistry Instruments	30	1.26	0.06	4.4	1.3	0.8 - 1.7	30	2.69	0.09	3.4	2.7	2.1 - 3.3
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	28	1.19	0.12	10.2	1.2	0.7 - 1.6	28	2.85	0.21	7.5	2.8	2.2 - 3.5
All Chemistry Instruments	29	1.19	0.12	10.0	1.2	0.7 - 1.6	29	2.85	0.21	7.4	2.8	2.2 - 3.5

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	191	4.08	0.39	9.7	4.0	3.2 - 5.0
All Alfa Wassermann Reagents	24	4.67	0.31	6.6	4.7	3.7 - 5.7
All Horiba Pentra Reagents	20	3.90	0.18	4.6	4.0	3.1 - 4.7
All Roche T. bili Special Reagents	24	3.64	0.18	5.1	3.7	2.9 - 4.4
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.7	3.2 - 5.0
All Chemistry Instruments	7	-	-	-	3.8	3.0 - 4.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	4.66	0.31	6.7	4.7	3.7 - 5.6
Beckman AU						
Beckman AU systems	31	4.03	0.18	4.5	4.0	3.2 - 4.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	3.90	0.18	4.6	4.0	3.1 - 4.7
Roche Integra-T. bili Gen.3						
Roche Integra	12	3.65	0.14	4.0	3.7	2.9 - 4.4
All Chemistry Instruments	14	3.61	0.18	5.0	3.6	2.8 - 4.4
Siemens Healthcare						
Siemens Dimension	28	4.03	0.13	3.2	4.0	3.2 - 4.9
All Chemistry Instruments	30	4.04	0.12	3.1	4.0	3.2 - 4.9
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	28	4.36	0.35	8.1	4.4	3.4 - 5.3
All Chemistry Instruments	29	4.36	0.35	8.0	4.4	3.4 - 5.3

Calcium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	210	11.42	0.34	3.0	11.5	10.4 - 12.5	208	7.93	0.29	3.7	8.0	6.9 - 9.0
All Arsenazo Methods	96	11.46	0.33	2.9	11.5	10.4 - 12.5	95	7.99	0.35	4.3	8.0	6.9 - 9.0
All CPC Methods	112	11.40	0.34	2.9	11.4	10.4 - 12.5	112	7.89	0.24	3.1	7.9	6.8 - 8.9
Abaxis Piccolo												
Abaxis Piccolo - waived	18	11.56	0.22	1.9	11.6	10.5 - 12.6	18	8.02	0.32	4.0	8.0	7.0 - 9.1
All Chemistry Instruments	23	11.56	0.24	2.0	11.5	10.5 - 12.6	23	8.03	0.34	4.2	8.1	7.0 - 9.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	11.39	0.23	2.1	11.4	10.3 - 12.4	23	8.27	0.24	2.9	8.3	7.2 - 9.3
Beckman AU												
Beckman AU systems	35	11.24	0.30	2.7	11.3	10.2 - 12.3	35	7.81	0.17	2.2	7.8	6.8 - 8.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	11.54	0.38	3.3	11.6	10.5 - 12.6	16	7.89	0.27	3.4	7.9	6.8 - 8.9
Roche Integra												
Roche Integra	17	11.69	0.26	2.3	11.7	10.6 - 12.7	17	8.06	0.19	2.3	8.1	7.0 - 9.1
All Chemistry Instruments	18	11.70	0.26	2.2	11.7	10.7 - 12.7	17	8.10	0.12	1.5	8.1	7.1 - 9.1
Siemens Healthcare												
Siemens Dimension	28	11.27	0.25	2.2	11.2	10.2 - 12.3	28	7.81	0.24	3.1	7.8	6.8 - 8.9
All Chemistry Instruments	31	11.26	0.25	2.2	11.2	10.2 - 12.3	31	7.81	0.25	3.2	7.8	6.8 - 8.9
VITROS												
VITROS 250,350,400 500,700,750,950	27	11.56	0.20	1.7	11.6	10.5 - 12.6	27	7.94	0.12	1.6	8.0	6.9 - 9.0
All Chemistry Instruments	29	11.56	0.24	2.1	11.6	10.5 - 12.6	29	7.94	0.16	2.0	8.0	6.9 - 9.0

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	192	8.69	0.29	3.3	8.7	7.6 - 9.7	194	10.80	0.32	3.0	10.9	9.7 - 11.8
All Arsenazo Methods	80	8.78	0.33	3.8	8.8	7.7 - 9.8	81	10.86	0.34	3.1	10.9	9.8 - 11.9
All CPC Methods	111	8.65	0.25	2.9	8.6	7.6 - 9.7	111	10.75	0.29	2.7	10.8	9.7 - 11.8
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	9.1	7.7 - 9.8	3	-	-	-	11.1	9.8 - 11.9
All Chemistry Instruments	8	-	-	-	9.0	7.9 - 10.0	8	-	-	-	10.9	9.9 - 11.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	8.99	0.27	3.0	9.0	7.9 - 10.0	23	10.98	0.20	1.9	11.0	9.9 - 12.0
Beckman AU												
Beckman AU systems	34	8.56	0.18	2.2	8.6	7.5 - 9.6	35	10.62	0.23	2.2	10.6	9.6 - 11.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	8.64	0.29	3.4	8.7	7.6 - 9.7	16	10.92	0.35	3.2	11.0	9.9 - 12.0
Roche Integra												
Roche Integra	17	8.84	0.23	2.7	8.9	7.8 - 9.9	16	11.02	0.14	1.3	11.0	10.0 - 12.1
All Chemistry Instruments	18	8.84	0.23	2.6	8.9	7.8 - 9.9	17	11.02	0.14	1.3	11.0	10.0 - 12.1
Siemens Healthcare												
Siemens Dimension	28	8.55	0.24	2.9	8.5	7.5 - 9.6	28	10.64	0.27	2.5	10.5	9.6 - 11.7
All Chemistry Instruments	31	8.55	0.25	2.9	8.5	7.5 - 9.6	31	10.63	0.27	2.5	10.5	9.6 - 11.7
VITROS												
VITROS 250,350,400 500,700,750,950	27	8.77	0.12	1.4	8.8	7.7 - 9.8	27	10.97	0.15	1.4	11.0	9.9 - 12.0
All Chemistry Instruments	28	8.76	0.14	1.6	8.8	7.7 - 9.8	29	10.97	0.21	1.9	11.0	9.9 - 12.0

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	191	12.78	0.38	3.0	12.8	11.7 - 13.8
All Arsenazo Methods	79	12.75	0.36	2.8	12.8	11.7 - 13.8
All CPC Methods	110	12.80	0.39	3.0	12.9	11.8 - 13.9
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	12.8	11.7 - 13.8
All Chemistry Instruments	8	-	-	-	12.8	11.7 - 13.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	22	12.82	0.30	2.3	12.9	11.8 - 13.9
Beckman AU						
Beckman AU systems	34	12.61	0.39	3.1	12.7	11.6 - 13.7
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	12.93	0.39	3.0	13.0	11.9 - 14.0
Roche Integra						
Roche Integra	16	13.04	0.27	2.1	13.1	12.0 - 14.1
All Chemistry Instruments	17	13.06	0.28	2.2	13.1	12.0 - 14.1
Siemens Healthcare						
Siemens Dimension	28	12.73	0.29	2.3	12.7	11.7 - 13.8
All Chemistry Instruments	31	12.70	0.33	2.6	12.7	11.7 - 13.8
VITROS						
VITROS 250,350,400 500,700,750,950	27	12.91	0.18	1.4	12.9	11.9 - 14.0
All Chemistry Instruments	28	12.93	0.19	1.5	13.0	11.9 - 14.0

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	208	3.31	0.14	4.3	3.3	2.8 - 3.9	208	1.10	0.10	9.1	1.1	0.7 - 1.4
All Alfa Wassermann Reagents	25	3.32	0.15	4.5	3.3	2.8 - 3.9	25	1.23	0.06	5.0	1.2	0.9 - 1.6
All Roche Reagents	29	3.19	0.11	3.5	3.2	2.7 - 3.7	28	1.09	0.06	5.5	1.1	0.7 - 1.4
All VITROS Reagents	29	3.42	0.10	2.8	3.4	2.9 - 4.0	30	1.06	0.06	5.9	1.1	0.7 - 1.4
Abaxis Piccolo												
Abaxis Piccolo - waived	18	3.30	0.17	5.1	3.3	2.8 - 3.8	18	1.14	0.13	11.3	1.2	0.8 - 1.5
All Chemistry Instruments	23	3.32	0.17	5.1	3.3	2.8 - 3.9	23	1.13	0.14	12.1	1.2	0.8 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	3.32	0.15	4.4	3.3	2.8 - 3.9	24	1.23	0.06	5.0	1.2	0.9 - 1.6
Beckman AU												
Beckman AU systems	34	3.28	0.13	3.8	3.3	2.7 - 3.8	35	1.05	0.06	5.8	1.0	0.7 - 1.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.19	0.12	3.8	3.2	2.7 - 3.7	19	1.03	0.07	6.4	1.0	0.7 - 1.4
Roche Integra												
Roche Integra	18	3.18	0.09	2.7	3.2	2.7 - 3.7	17	1.10	0.04	3.2	1.1	0.8 - 1.4
Siemens Healthcare												
Siemens Dimension	28	3.39	0.05	1.5	3.4	2.8 - 3.9	28	1.16	0.06	4.9	1.2	0.8 - 1.5
All Chemistry Instruments	31	3.39	0.05	1.5	3.4	2.8 - 3.9	31	1.15	0.07	5.9	1.2	0.8 - 1.5
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	20	3.43	0.09	2.5	3.4	2.9 - 4.0	20	1.06	0.06	5.7	1.1	0.7 - 1.4
All Chemistry Instruments	20	3.43	0.09	2.5	3.4	2.9 - 4.0	21	1.06	0.06	5.7	1.1	0.7 - 1.4

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	194	1.56	0.09	5.9	1.6	1.2 - 1.9	195	2.88	0.13	4.5	2.9	2.4 - 3.4
All Alfa Wassermann Reagents	25	1.66	0.06	3.4	1.7	1.3 - 2.0	25	2.93	0.12	4.2	2.9	2.4 - 3.4
All Roche Reagents	29	1.51	0.07	4.6	1.5	1.2 - 1.9	29	2.79	0.12	4.3	2.8	2.3 - 3.3
All VITROS Reagents	30	1.56	0.06	4.0	1.6	1.2 - 1.9	30	2.98	0.09	3.0	3.0	2.5 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	1.6	1.2 - 1.9	3	-	-	-	3.0	2.4 - 3.4
All Chemistry Instruments	8	-	-	-	1.6	1.2 - 1.9	8	-	-	-	3.0	2.4 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	1.66	0.06	3.5	1.7	1.3 - 2.0	24	2.92	0.12	4.2	2.9	2.4 - 3.4
Beckman AU												
Beckman AU systems	34	1.52	0.07	4.7	1.5	1.2 - 1.9	34	2.84	0.09	3.3	2.8	2.4 - 3.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	1.47	0.09	5.9	1.5	1.1 - 1.8	19	2.78	0.13	4.5	2.8	2.3 - 3.3
Roche Integra												
Roche Integra	18	1.51	0.06	4.2	1.5	1.2 - 1.9	18	2.79	0.08	2.7	2.8	2.3 - 3.3
Siemens Healthcare												
Siemens Dimension	28	1.61	0.05	3.2	1.6	1.3 - 2.0	28	2.93	0.05	1.9	2.9	2.4 - 3.4
All Chemistry Instruments	31	1.61	0.06	3.7	1.6	1.3 - 2.0	31	2.94	0.06	1.9	2.9	2.4 - 3.4
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	20	1.56	0.06	3.8	1.6	1.2 - 1.9	20	2.98	0.07	2.4	3.0	2.5 - 3.5
All Chemistry Instruments	21	1.56	0.06	3.8	1.6	1.2 - 1.9	21	2.99	0.09	2.9	3.0	2.5 - 3.5

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	194	4.14	0.20	4.8	4.2	3.5 - 4.8
All Alfa Wassermann Reagents	25	4.08	0.17	4.3	4.1	3.4 - 4.7
All Roche Reagents	29	3.96	0.14	3.4	3.9	3.3 - 4.6
All VITROS Reagents	30	4.30	0.15	3.4	4.3	3.6 - 5.0
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	4.2	3.5 - 4.8
All Chemistry Instruments	8	-	-	-	4.2	3.6 - 5.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	4.08	0.17	4.2	4.1	3.4 - 4.7
Beckman AU						
Beckman AU systems	33	4.09	0.14	3.3	4.1	3.4 - 4.8
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	4.02	0.17	4.3	4.0	3.4 - 4.7
Roche Integra						
Roche Integra	18	3.93	0.10	2.4	3.9	3.3 - 4.6
Siemens Healthcare						
Siemens Dimension	28	4.31	0.07	1.7	4.3	3.6 - 5.0
All Chemistry Instruments	31	4.31	0.08	1.8	4.3	3.6 - 5.0
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	20	4.29	0.14	3.3	4.3	3.6 - 5.0
All Chemistry Instruments	21	4.30	0.14	3.2	4.3	3.6 - 5.0

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	221	168.6	6.7	4.0	169	151 - 186	218	70.9	3.5	5.0	71	63 - 78
All Alfa Wassermann Reagents	26	176.3	4.5	2.6	177	158 - 194	27	76.1	1.6	2.1	76	68 - 84
All Horiba Pentra Reagents	19	166.2	7.4	4.5	166	149 - 183	19	69.7	2.5	3.6	70	62 - 77
All Roche Reagents	29	170.9	4.1	2.4	172	153 - 188	29	71.6	2.0	2.8	72	64 - 79
Abaxis Piccolo												
Abaxis Piccolo - waived	17	163.4	1.5	0.9	163	147 - 180	18	71.2	1.5	2.1	71	64 - 79
All Chemistry Instruments	22	163.9	1.8	1.1	164	147 - 181	23	71.3	1.4	1.9	71	64 - 79
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	176.3	4.6	2.6	177	158 - 194	26	76.1	1.7	2.2	76	68 - 84
Beckman AU												
Beckman AU systems	35	171.2	4.4	2.6	172	154 - 189	35	71.4	2.0	2.8	71	64 - 79
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	166.2	7.4	4.5	166	149 - 183	19	69.7	2.5	3.6	70	62 - 77
Roche Integra												
Roche Integra	18	171.7	3.8	2.2	173	154 - 189	18	72.1	1.8	2.6	72	64 - 80
Siemens Healthcare												
Siemens Dimension	28	168.3	3.0	1.8	169	151 - 186	28	70.9	1.5	2.2	71	63 - 78
All Chemistry Instruments	31	168.3	3.4	2.0	169	151 - 186	31	70.8	1.6	2.3	71	63 - 78
VITROS												
VITROS 250,350,400 500,700,750,950	28	162.7	3.6	2.2	161	146 - 179	28	65.5	1.8	2.8	65	58 - 73
All Chemistry Instruments	29	162.9	3.7	2.3	161	146 - 180	30	65.4	2.1	3.2	65	58 - 72

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	196	91.6	4.0	4.3	92	82 - 101	196	150.6	5.9	3.9	151	135 - 166
All Alfa Wassermann Reagents	27	96.9	2.4	2.5	97	87 - 107	27	158.0	3.4	2.2	158	142 - 174
All Horiba Pentra Reagents	19	89.9	3.8	4.2	90	80 - 99	19	148.3	5.5	3.7	147	133 - 164
All Roche Reagents	29	92.3	2.4	2.6	93	83 - 102	29	152.2	4.0	2.6	153	136 - 168
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	91	82 - 101	3	-	-	-	143	135 - 166
All Chemistry Instruments	8	-	-	-	91	81 - 100	8	-	-	-	147	130 - 161
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	96.8	2.5	2.6	98	87 - 107	26	158.0	3.5	2.2	158	142 - 174
Beckman AU												
Beckman AU systems	34	92.3	2.4	2.6	93	83 - 102	35	152.0	3.7	2.5	153	136 - 168
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	89.9	3.8	4.2	90	80 - 99	19	148.3	5.5	3.7	147	133 - 164
Roche Integra												
Roche Integra	18	92.8	2.4	2.6	93	83 - 103	17	153.6	2.5	1.6	154	138 - 169
Siemens Healthcare												
Siemens Dimension	28	91.2	2.0	2.2	92	82 - 101	28	149.4	3.0	2.0	150	134 - 165
All Chemistry Instruments	31	91.1	2.1	2.3	92	81 - 101	31	149.2	3.3	2.2	150	134 - 165
VITROS												
VITROS 250,350,400 500,700,750,950	28	86.3	2.2	2.5	86	77 - 95	28	143.3	3.2	2.2	143	128 - 158
All Chemistry Instruments	29	86.4	2.2	2.6	86	77 - 96	29	143.5	3.2	2.2	143	129 - 158

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	196	208.5	7.5	3.6	209	187 - 230
All Alfa Wassermann Reagents	26	217.7	4.0	1.8	217	195 - 240
All Horiba Pentra Reagents	19	205.4	7.8	3.8	204	184 - 226
All Roche Reagents	29	209.9	5.6	2.7	211	188 - 231
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	196	187 - 230
All Chemistry Instruments	8	-	-	-	201	179 - 220
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	217.5	4.0	1.8	217	195 - 240
Beckman AU						
Beckman AU systems	34	210.2	5.4	2.6	210	189 - 232
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	205.4	7.8	3.8	204	184 - 226
Roche Integra						
Roche Integra	18	211.0	5.6	2.6	213	189 - 233
Siemens Healthcare						
Siemens Dimension	28	206.4	3.4	1.7	207	185 - 228
All Chemistry Instruments	31	206.1	3.8	1.8	206	185 - 227
VITROS						
VITROS 250,350,400 500,700,750,950	28	202.6	5.0	2.5	202	182 - 223
All Chemistry Instruments	30	202.3	5.9	2.9	202	182 - 223

Iron (µg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	80	148.2	10.1	6.8	147	118 - 178	79	46.6	4.3	9.2	47	37 - 56
All Roche Reagents	15	147.8	3.8	2.6	148	118 - 178	15	48.1	2.1	4.3	48	38 - 58
Beckman AU												
Beckman AU systems	19	158.5	4.0	2.6	159	126 - 191	19	50.1	3.4	6.9	50	40 - 61
Siemens Healthcare												
Siemens Dimension	16	142.0	2.5	1.8	142	113 - 171	17	45.0	1.2	2.7	45	36 - 54
All Chemistry Instruments	18	142.3	2.6	1.8	143	113 - 171	19	45.2	1.4	3.0	45	36 - 55
	Specimen CH-13						Specimen CH-14					
All Method	78	67.3	4.4	6.5	67	53 - 81	80	128.9	7.5	5.8	128	103 - 155
All Roche Reagents	15	68.7	2.5	3.6	69	54 - 83	15	129.1	3.2	2.5	129	103 - 155
Beckman AU												
Beckman AU systems	18	72.0	2.4	3.3	72	57 - 87	20	137.4	4.1	3.0	137	109 - 165
Siemens Healthcare												
Siemens Dimension	17	64.8	1.7	2.6	65	51 - 78	17	123.6	2.5	2.0	124	98 - 149
All Chemistry Instruments	19	65.1	1.8	2.8	65	52 - 79	19	123.8	2.6	2.1	124	99 - 149
	Specimen CH-15											
All Method	78	189.4	14.2	7.5	187	151 - 228						
All Roche Reagents	15	187.0	4.9	2.6	187	149 - 225						
Beckman AU												
Beckman AU systems	18	203.3	4.4	2.2	204	162 - 244						
Siemens Healthcare												
Siemens Dimension	17	180.5	4.1	2.3	180	144 - 217						
All Chemistry Instruments	19	180.8	4.0	2.2	180	144 - 218						

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	4.35	0.10	2.3	4.4	4.0 - 4.7	5	0.78	0.05	6.5	0.8	0.6 - 1.0
<u>Method</u>	<u>Specimen CH-13</u>						<u>Specimen CH-14</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	1.53	0.10	6.3	1.6	1.2 - 1.9	5	3.68	0.05	1.4	3.7	3.5 - 3.9
<u>Method</u>	<u>Specimen CH-15</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	5.85	0.06	1.0	5.9	5.6 - 6.1						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	3.17	0.18	5.6	3.1	2.3 - 4.0	100	1.56	0.11	6.8	1.6	1.1 - 2.0
All Horiba Pentra Reagents	14	3.06	0.12	4.0	3.1	2.2 - 3.9	15	1.50	0.10	6.7	1.5	1.1 - 1.9
All Roche Reagents	22	3.10	0.07	2.3	3.1	2.3 - 3.9	22	1.57	0.07	4.6	1.6	1.1 - 2.0
Beckman AU												
Beckman AU systems	20	3.16	0.12	3.9	3.2	2.3 - 4.0	20	1.57	0.08	5.2	1.6	1.1 - 2.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	3.06	0.12	4.0	3.1	2.2 - 3.9	15	1.50	0.10	6.7	1.5	1.1 - 1.9
Roche Integra												
Roche Integra	13	3.08	0.08	2.6	3.1	2.3 - 3.9	13	1.57	0.09	5.4	1.6	1.1 - 2.0
Siemens Healthcare												
Siemens Dimension	15	3.18	0.11	3.4	3.2	2.3 - 4.0	15	1.55	0.09	5.9	1.5	1.1 - 2.0
All Chemistry Instruments	16	3.20	0.13	4.1	3.2	2.4 - 4.0	16	1.57	0.11	6.9	1.5	1.1 - 2.0
VITROS												
VITROS 250,350,400 500,700,750,950	13	3.44	0.10	3.0	3.4	2.5 - 4.3	13	1.63	0.05	2.9	1.6	1.2 - 2.1
All Chemistry Instruments	14	3.43	0.11	3.1	3.4	2.5 - 4.3	14	1.63	0.05	2.9	1.6	1.2 - 2.1

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	5.23	0.24	4.6	5.2	4.6 - 5.8
All Alfa Wassermann Reagents	10	5.08	0.19	3.8	5.1	4.5 - 5.7
All Roche Reagents	18	5.16	0.14	2.8	5.2	4.6 - 5.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	5.08	0.19	3.8	5.1	4.5 - 5.7
Beckman AU						
Beckman AU systems	19	5.25	0.24	4.6	5.2	4.6 - 5.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	10	5.55	0.31	5.5	5.6	4.9 - 6.2
All Chemistry Instruments						
Roche cobas c 501	10	5.24	0.11	2.2	5.2	4.6 - 5.9
Roche cobas 6000 / c 501	11	5.22	0.12	2.2	5.2	4.6 - 5.8
Roche Integra						
Roche Integra	11	5.13	0.16	3.0	5.1	4.5 - 5.7
Siemens Healthcare						
Siemens Dimension	12	5.37	0.36	6.7	5.3	4.7 - 6.0
VITROS						
VITROS 250,350,400 500,700,750,950	10	5.23	0.21	3.9	5.2	4.6 - 5.8
All Chemistry Instruments	11	5.25	0.20	3.8	5.2	4.6 - 5.9

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	202	5.78	0.19	3.2	5.8	5.2 - 6.4	203	3.09	0.11	3.6	3.1	2.7 - 3.5
All Alfa Wassermann Reagents	24	5.92	0.11	1.9	5.9	5.3 - 6.6	24	3.13	0.08	2.7	3.1	2.8 - 3.5
All Horiba Pentra Reagents	19	5.81	0.16	2.8	5.8	5.2 - 6.4	19	3.04	0.11	3.7	3.1	2.7 - 3.4
All Roche Reagents	29	5.71	0.18	3.1	5.7	5.1 - 6.3	29	3.03	0.11	3.6	3.0	2.7 - 3.4
Abaxis Piccolo												
Abaxis Piccolo - waived	17	5.81	0.07	1.3	5.8	5.2 - 6.4	18	3.18	0.06	2.0	3.2	2.8 - 3.5
All Chemistry Instruments	21	5.81	0.07	1.2	5.8	5.2 - 6.4	22	3.18	0.06	1.8	3.2	2.8 - 3.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	5.92	0.11	1.9	5.9	5.3 - 6.6	23	3.13	0.08	2.6	3.1	2.8 - 3.5
Beckman AU												
Beckman AU systems	34	5.68	0.13	2.3	5.7	5.1 - 6.3	34	3.01	0.07	2.2	3.0	2.7 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	5.81	0.16	2.8	5.8	5.2 - 6.4	19	3.04	0.11	3.7	3.1	2.7 - 3.4
Roche Integra												
Roche Integra	18	5.62	0.13	2.4	5.6	5.0 - 6.2	18	2.97	0.08	2.8	3.0	2.6 - 3.3
Siemens Healthcare												
Siemens Dimension	27	5.96	0.13	2.2	6.0	5.3 - 6.6	27	3.19	0.08	2.4	3.2	2.8 - 3.6
All Chemistry Instruments	29	5.95	0.13	2.2	6.0	5.3 - 6.6	29	3.18	0.08	2.4	3.2	2.8 - 3.6
VITROS												
VITROS 250,350,400 500,700,750,950	28	5.63	0.16	2.8	5.6	5.0 - 6.2	28	3.10	0.10	3.2	3.1	2.7 - 3.5
All Chemistry Instruments	30	5.65	0.18	3.1	5.6	5.0 - 6.3	30	3.10	0.11	3.5	3.1	2.7 - 3.5

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	187	3.65	0.13	3.5	3.7	3.2 - 4.1	188	5.28	0.18	3.4	5.3	4.7 - 5.9
All Alfa Wassermann Reagents	24	3.72	0.10	2.8	3.7	3.3 - 4.1	24	5.40	0.11	2.1	5.4	4.8 - 6.0
All Horiba Pentra Reagents	19	3.61	0.12	3.3	3.6	3.2 - 4.0	19	5.25	0.19	3.6	5.2	4.7 - 5.8
All Roche Reagents	29	3.60	0.13	3.7	3.6	3.2 - 4.0	29	5.19	0.19	3.7	5.2	4.6 - 5.8
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	3.7	3.2 - 4.1	3	-	-	-	5.2	4.7 - 5.9
All Chemistry Instruments	7	-	-	-	3.7	3.3 - 4.2	7	-	-	-	5.3	4.7 - 5.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	3.72	0.11	2.9	3.7	3.3 - 4.1	23	5.40	0.11	2.1	5.4	4.8 - 6.0
Beckman AU												
Beckman AU systems	33	3.57	0.07	2.1	3.6	3.2 - 4.0	34	5.16	0.10	1.9	5.2	4.6 - 5.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	3.61	0.12	3.3	3.6	3.2 - 4.0	19	5.25	0.19	3.6	5.2	4.7 - 5.8
Roche Integra												
Roche Integra	18	3.52	0.09	2.5	3.5	3.1 - 3.9	18	5.08	0.14	2.7	5.1	4.5 - 5.6
Siemens Healthcare												
Siemens Dimension	27	3.78	0.09	2.4	3.8	3.4 - 4.2	26	5.44	0.08	1.5	5.4	4.8 - 6.0
All Chemistry Instruments	29	3.78	0.09	2.3	3.8	3.3 - 4.2	28	5.43	0.09	1.6	5.4	4.8 - 6.0
VITROS												
VITROS 250,350,400 500,700,750,950	28	3.66	0.10	2.7	3.7	3.2 - 4.1	28	5.21	0.15	2.8	5.2	4.6 - 5.8
All Chemistry Instruments	30	3.66	0.11	3.0	3.7	3.2 - 4.1	30	5.23	0.17	3.3	5.2	4.7 - 5.8

Protein, Total (g/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	188	6.83	0.24	3.5	6.8	6.1 - 7.6
All Alfa Wassermann Reagents	24	7.03	0.14	2.0	7.1	6.3 - 7.8
All Horiba Pentra Reagents	19	6.81	0.18	2.6	6.8	6.1 - 7.5
All Roche Reagents	29	6.73	0.24	3.5	6.7	6.0 - 7.5
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	6.8	6.1 - 7.6
All Chemistry Instruments	7	-	-	-	6.8	6.1 - 7.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	7.02	0.14	2.0	7.0	6.3 - 7.8
Beckman AU						
Beckman AU systems	33	6.71	0.15	2.3	6.7	6.0 - 7.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	6.81	0.18	2.6	6.8	6.1 - 7.5
Roche Integra						
Roche Integra	18	6.59	0.17	2.6	6.6	5.9 - 7.3
Siemens Healthcare						
Siemens Dimension	27	7.07	0.15	2.2	7.1	6.3 - 7.8
All Chemistry Instruments	29	7.07	0.15	2.1	7.1	6.3 - 7.8
VITROS						
VITROS 250,350,400 500,700,750,950	28	6.65	0.19	2.8	6.6	5.9 - 7.4
All Chemistry Instruments	30	6.67	0.20	3.0	6.6	6.0 - 7.4

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	209	27.6	2.2	7.9	28	25 - 31	208	9.2	0.8	8.8	9	7 - 12
All Alfa Wassermann Reagents	25	28.1	1.0	3.6	28	25 - 31	25	9.6	0.6	6.1	10	7 - 12
All Horiba Pentra Reagents	19	26.5	1.3	4.9	27	24 - 29	19	8.9	0.7	8.3	9	6 - 11
All Roche Reagents	29	28.6	0.9	3.2	29	26 - 32	29	9.3	0.5	5.8	9	7 - 12
Abaxis Piccolo												
Abaxis Piccolo - waived	18	26.1	0.6	2.2	26	23 - 29	18	9.2	0.4	4.6	9	7 - 12
All Chemistry Instruments	23	26.1	0.5	2.1	26	23 - 29	23	9.1	0.5	5.0	9	7 - 12
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	28.1	1.0	3.4	28	25 - 31	21	9.4	0.8	8.6	10	7 - 12
Beckman AU												
Beckman AU systems	34	29.4	0.9	3.0	30	26 - 32	34	9.8	0.6	5.7	10	7 - 12
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	26.5	1.3	4.9	27	24 - 29	19	8.9	0.7	8.3	9	6 - 11
Roche Integra												
Roche Integra	18	28.8	1.1	3.7	29	26 - 32	18	9.3	0.6	6.2	9	7 - 12
Siemens Healthcare												
Siemens Dimension	28	29.3	1.2	4.0	29	26 - 32	27	9.5	0.6	6.8	9	7 - 12
All Chemistry Instruments	31	29.2	1.1	3.9	29	26 - 32	30	9.5	0.7	7.2	10	7 - 12
VITROS												
VITROS 250,350,400 500,700,750,950	28	23.7	0.7	3.1	24	21 - 26	26	8.0	0.1	0.0	8	6 - 10
All Chemistry Instruments	30	23.6	0.8	3.2	24	21 - 26	27	8.0	0.1	0.0	8	6 - 10

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-13</u>						<u>Specimen CH-14</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	193	13.1	1.1	8.1	13	11 - 16	194	24.1	1.9	8.1	25	21 - 27
All Alfa Wassermann Reagents	26	13.3	0.6	4.7	13	11 - 16	26	24.5	1.0	4.2	25	22 - 27
All Horiba Pentra Reagents	19	12.5	0.8	6.7	13	10 - 15	19	22.8	1.4	6.0	23	20 - 25
All Roche Reagents	29	13.4	0.6	4.3	13	11 - 16	28	24.9	0.7	2.9	25	22 - 28
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	13	11 - 16	3	-	-	-	23	21 - 27
All Chemistry Instruments	8	-	-	-	13	10 - 15	8	-	-	-	23	20 - 25
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	13.3	0.6	4.8	13	11 - 16	21	24.5	1.1	4.4	25	22 - 27
Beckman AU												
Beckman AU systems	32	13.8	0.5	3.4	14	11 - 16	34	25.5	1.0	3.9	26	23 - 28
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	19	12.5	0.8	6.7	13	10 - 15	19	22.8	1.4	6.0	23	20 - 25
Roche Integra												
Roche Integra	18	13.4	0.6	4.6	14	11 - 16	18	24.8	0.9	3.8	25	22 - 28
Siemens Healthcare												
Siemens Dimension	28	13.8	0.8	5.5	14	11 - 16	28	25.4	0.9	3.6	26	23 - 28
All Chemistry Instruments	31	13.7	0.8	5.8	14	11 - 16	31	25.4	1.0	3.8	26	23 - 28
VITROS												
VITROS 250,350,400 500,700,750,950	28	11.4	0.6	5.0	11	9 - 14	28	20.7	0.7	3.4	21	18 - 23
All Chemistry Instruments	30	11.4	0.6	5.0	11	9 - 14	30	20.7	0.8	3.8	21	18 - 23

Urea Nitrogen (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	193	35.0	2.7	7.8	36	31 - 39
All Alfa Wassermann Reagents	26	35.4	1.4	4.0	35	32 - 39
All Horiba Pentra Reagents	19	33.7	1.8	5.3	34	30 - 37
All Roche Reagents	28	36.1	1.0	2.7	36	32 - 40
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	33	31 - 39
All Chemistry Instruments	8	-	-	-	33	30 - 37
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	35.2	1.4	3.9	35	32 - 39
Beckman AU						
Beckman AU systems	33	37.1	1.3	3.5	37	33 - 41
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	19	33.7	1.8	5.3	34	30 - 37
Roche Integra						
Roche Integra	18	36.1	1.5	4.0	36	32 - 40
Siemens Healthcare						
Siemens Dimension	28	37.0	1.1	3.0	37	33 - 41
All Chemistry Instruments	31	37.0	1.1	3.1	37	33 - 41
VITROS						
VITROS 250,350,400 500,700,750,950	28	30.1	0.9	3.1	30	27 - 33
All Chemistry Instruments	30	30.0	1.0	3.3	30	27 - 33

Uric Acid (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	129	6.68	0.30	4.6	6.7	5.5 - 7.9	130	2.51	0.36	14.5	2.5	2.0 - 3.0
All Alfa Wassermann Reagents	16	6.96	0.31	4.5	7.1	5.7 - 8.2	17	3.45	0.28	8.1	3.4	2.8 - 4.1
All Roche Reagents	22	6.59	0.25	3.8	6.7	5.4 - 7.8	22	2.41	0.09	3.6	2.4	1.9 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	6.96	0.31	4.5	7.1	5.7 - 8.2	17	3.45	0.28	8.1	3.4	2.8 - 4.1
Beckman AU												
Beckman AU systems	27	6.73	0.18	2.6	6.7	5.5 - 7.9	27	2.51	0.07	2.6	2.5	2.0 - 3.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	6.49	0.27	4.2	6.6	5.3 - 7.6	11	2.40	0.11	4.6	2.4	1.9 - 2.9
Roche Integra												
Roche Integra	12	6.77	0.14	2.1	6.8	5.6 - 8.0	12	2.46	0.07	2.7	2.5	2.0 - 2.9
Siemens Healthcare												
Siemens Dimension	20	6.49	0.20	3.0	6.5	5.3 - 7.6	19	2.40	0.08	3.4	2.4	1.9 - 2.9
All Chemistry Instruments	22	6.49	0.19	2.9	6.5	5.3 - 7.6	21	2.40	0.08	3.3	2.4	1.9 - 2.9
VITROS												
VITROS 250,350,400 500,700,750,950	15	6.59	0.14	2.1	6.6	5.4 - 7.8	15	2.34	0.12	5.1	2.3	1.9 - 2.8
All Chemistry Instruments	17	6.59	0.16	2.4	6.6	5.4 - 7.8	17	2.34	0.12	5.0	2.3	1.9 - 2.8
<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	127	3.41	0.29	8.6	3.3	2.8 - 4.0	129	5.89	0.28	4.7	5.9	4.8 - 6.9
All Alfa Wassermann Reagents	17	4.10	0.24	5.8	4.1	3.4 - 4.8	17	6.24	0.22	3.5	6.3	5.1 - 7.4
All Roche Reagents	22	3.28	0.13	3.9	3.3	2.7 - 3.9	22	5.81	0.20	3.5	5.8	4.8 - 6.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	4.10	0.24	5.8	4.1	3.4 - 4.8	17	6.24	0.22	3.5	6.3	5.1 - 7.4
Beckman AU												
Beckman AU systems	25	3.40	0.09	2.6	3.4	2.8 - 4.0	26	5.89	0.18	3.0	5.9	4.8 - 6.9
Horiba ABX Pentra												
Horiba ABX Pentra 400	11	3.26	0.14	4.4	3.3	2.7 - 3.9	11	5.70	0.20	3.6	5.7	4.7 - 6.7
Roche Integra												
Roche Integra	12	3.36	0.09	2.7	3.4	2.7 - 4.0	12	5.96	0.12	2.1	6.0	4.9 - 7.0
Siemens Healthcare												
Siemens Dimension	20	3.25	0.12	3.7	3.3	2.6 - 3.8	20	5.73	0.14	2.4	5.7	4.7 - 6.7
All Chemistry Instruments	22	3.25	0.12	3.6	3.3	2.7 - 3.9	22	5.73	0.14	2.4	5.7	4.7 - 6.8
VITROS												
VITROS 250,350,400 500,700,750,950	15	3.27	0.11	3.4	3.3	2.7 - 3.9	15	5.78	0.11	2.0	5.8	4.7 - 6.8
All Chemistry Instruments	17	3.26	0.12	3.6	3.3	2.7 - 3.9	17	5.78	0.14	2.4	5.8	4.7 - 6.8

Uric Acid (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	129	8.27	0.33	4.0	8.3	6.8 - 9.7
All Alfa Wassermann Reagents	17	8.40	0.25	3.0	8.4	6.9 - 9.9
All Roche Reagents	22	8.22	0.28	3.5	8.3	6.8 - 9.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	8.40	0.25	3.0	8.4	6.9 - 9.9
Beckman AU						
Beckman AU systems	26	8.34	0.22	2.6	8.3	6.9 - 9.8
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	8.05	0.28	3.5	8.1	6.6 - 9.5
Roche Integra						
Roche Integra	12	8.42	0.17	2.1	8.4	6.9 - 9.9
Siemens Healthcare						
Siemens Dimension	20	8.07	0.15	1.8	8.1	6.6 - 9.5
All Chemistry Instruments	22	8.07	0.14	1.8	8.1	6.6 - 9.5
VITROS						
VITROS 250,350,400 500,700,750,950	15	8.19	0.21	2.6	8.2	6.8 - 9.6
All Chemistry Instruments	17	8.20	0.25	3.1	8.2	6.8 - 9.6

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	199	105.3	2.7	2.5	105	100 - 111	202	92.9	2.5	2.7	93	88 - 98
Abaxis Piccolo												
Abaxis Piccolo - waived	18	107.4	2.1	2.0	108	102 - 113	18	97.8	2.4	2.5	98	92 - 103
All Chemistry Instruments	23	107.8	2.3	2.1	108	102 - 114	23	98.0	2.3	2.4	98	93 - 103
ISE Diluted												
Beckman AU systems	32	102.8	1.0	0.9	103	97 - 108	32	92.7	0.7	0.8	93	88 - 98
Roche Integra	14	105.5	1.7	1.7	105	100 - 111	14	93.0	1.2	1.3	93	88 - 98
Siemens Dimension QuickLyte - Xpand/EXL	21	105.7	1.1	1.0	106	100 - 111	21	91.2	1.0	1.1	91	86 - 96
All Chemistry Instruments	97	104.2	1.9	1.9	104	99 - 110	97	92.0	1.5	1.7	92	87 - 97
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	24	107.4	1.3	1.2	107	102 - 113	24	92.0	1.2	1.3	92	87 - 97
Horiba ABX Pentra 400 / C400	13	106.7	4.9	4.6	106	101 - 113	17	92.5	2.8	3.1	93	87 - 98
All Chemistry Instruments	45	106.7	3.1	2.9	107	101 - 113	49	92.0	2.0	2.1	92	87 - 97
VITROS												
VITROS 250,350,400 500,700,750,950	27	104.1	1.5	1.4	104	98 - 110	26	93.6	0.9	0.9	94	88 - 99
All Chemistry Instruments	29	104.2	1.6	1.5	104	98 - 110	29	93.6	1.2	1.3	93	88 - 99
<hr/>												
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	186	95.1	2.1	2.3	95	90 - 100	182	102.8	2.3	2.2	103	97 - 108
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	100	95 - 107	3	-	-	-	106	101 - 113
All Chemistry Instruments	8	-	-	-	100	95 - 107	8	-	-	-	106	101 - 113
ISE Diluted												
Beckman AU systems	31	94.9	0.8	0.9	95	90 - 100	32	101.3	0.9	0.9	101	96 - 107
Roche Integra	14	95.6	1.2	1.2	95	90 - 101	14	103.3	1.4	1.4	103	98 - 109
Siemens Dimension QuickLyte - Xpand/EXL	21	94.2	0.9	1.0	94	89 - 99	21	103.3	1.0	1.0	103	98 - 109
All Chemistry Instruments	97	94.6	1.6	1.7	95	89 - 100	96	102.1	1.7	1.6	102	97 - 108
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	24	94.8	1.1	1.2	95	90 - 100	22	103.7	1.0	1.0	104	98 - 109
Horiba ABX Pentra 400 / C400	17	95.8	3.7	3.9	97	90 - 101	15	105.9	4.9	4.6	107	100 - 112
All Chemistry Instruments	49	95.0	2.5	2.6	95	90 - 100	47	104.1	3.3	3.2	104	98 - 110
VITROS												
VITROS 250,350,400 500,700,750,950	27	95.9	1.3	1.4	96	91 - 101	27	102.5	1.4	1.4	103	97 - 108
All Chemistry Instruments	29	95.9	1.4	1.5	96	91 - 101	29	102.6	1.6	1.6	103	97 - 108

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	179	110.7	3.3	3.0	110	105 - 117
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	110	106 - 118
All Chemistry Instruments	8	-	-	-	112	106 - 118
ISE Diluted						
Beckman AU systems	31	107.5	1.3	1.2	107	102 - 113
Roche Integra	14	111.0	1.9	1.7	110	105 - 117
Siemens Dimension QuickLyte - Xpand/EXL	21	111.9	1.3	1.1	112	106 - 118
All Chemistry Instruments	97	109.8	3.1	2.9	110	104 - 116
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	24	113.3	1.6	1.4	113	107 - 119
Horiba ABX Pentra 400 / C400	11	117.4	5.2	4.4	117	111 - 124
All Chemistry Instruments	43	113.7	4.0	3.5	114	108 - 120
VITROS						
VITROS 250,350,400 500,700,750,950	27	109.4	1.7	1.5	110	103 - 115
All Chemistry Instruments	29	109.4	1.8	1.6	110	103 - 115

CO₂ (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	188	29.1	3.1	10.6	29	23 - 35
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	28	22 - 35
All Chemistry Instruments	8	-	-	-	29	22 - 35
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	14	29.4	4.2	14.4	30	23 - 36
Beckman AU systems	27	30.7	1.9	6.2	31	24 - 37
Horiba ABX Pentra 400	16	28.7	2.4	8.3	29	22 - 35
Roche Integra	14	26.2	2.0	7.8	26	20 - 32
Siemens Dimension	19	31.0	1.9	6.3	31	24 - 38
All Chemistry Instruments	109	29.4	3.0	10.3	30	23 - 36
ISE Diluted						
All Chemistry Instruments	20	28.8	4.6	15.9	29	23 - 35
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	10	28.7	3.7	12.7	28	22 - 35
All Chemistry Instruments	17	30.2	3.7	12.3	30	24 - 37
VITROS						
VITROS 250,350,400 500,700,750,950	27	28.1	2.2	8.0	28	22 - 34
All Chemistry Instruments	29	27.8	2.5	9.1	28	22 - 34

Potassium (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	208	4.92	0.12	2.3	4.9	4.4 - 5.5	199	2.89	0.08	2.7	2.9	2.3 - 3.4
Abaxis Piccolo												
Abaxis Piccolo - waived	17	4.90	0.24	4.9	4.9	4.4 - 5.4	17	2.67	0.11	4.1	2.7	2.1 - 3.2
All Chemistry Instruments	23	4.90	0.21	4.2	4.9	4.4 - 5.5	23	2.70	0.12	4.4	2.7	2.2 - 3.3
ISE Diluted												
Beckman AU systems	32	4.81	0.06	1.2	4.8	4.3 - 5.4	32	2.88	0.04	1.4	2.9	2.3 - 3.4
Roche Integra	16	4.91	0.05	1.0	4.9	4.4 - 5.5	16	2.90	0.04	1.3	2.9	2.4 - 3.4
Siemens Dimension QuickLyte - Xpand/EXL	22	4.92	0.06	1.2	4.9	4.4 - 5.5	22	2.87	0.06	2.2	2.9	2.3 - 3.4
All Chemistry Instruments	101	4.90	0.09	1.8	4.9	4.3 - 5.4	102	2.90	0.07	2.3	2.9	2.4 - 3.5
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	24	5.01	0.11	2.1	5.0	4.5 - 5.6	23	2.83	0.08	2.9	2.8	2.3 - 3.4
Horiba ABX Pentra 400 / C400	18	4.84	0.10	2.0	4.9	4.3 - 5.4	18	2.91	0.08	2.6	2.9	2.4 - 3.5
All Chemistry Instruments	49	4.93	0.13	2.7	4.9	4.4 - 5.5	47	2.87	0.08	2.7	2.9	2.3 - 3.4
VITROS												
VITROS 250,350,400 500,700,750,950	28	5.00	0.07	1.5	5.0	4.5 - 5.6	28	2.91	0.06	2.0	2.9	2.4 - 3.5
All Chemistry Instruments	30	5.00	0.08	1.6	5.0	4.4 - 5.5	30	2.91	0.06	2.1	2.9	2.4 - 3.5
Specimen CH-13						Specimen CH-14						
All Method	190	3.30	0.07	2.2	3.3	2.8 - 3.9	194	4.52	0.09	2.0	4.5	4.0 - 5.1
Abaxis Piccolo												
Abaxis Piccolo - waived	2	-	-	-	3.2	2.7 - 3.8	2	-	-	-	4.4	4.0 - 5.1
All Chemistry Instruments	8	-	-	-	3.3	2.7 - 3.8	8	-	-	-	4.5	4.0 - 5.1
ISE Diluted												
Beckman AU systems	31	3.28	0.04	1.1	3.3	2.7 - 3.8	32	4.45	0.06	1.3	4.5	3.9 - 5.0
Roche Integra	16	3.31	0.04	1.3	3.3	2.8 - 3.9	16	4.53	0.07	1.5	4.5	4.0 - 5.1
Siemens Dimension QuickLyte - Xpand/EXL	21	3.30	0.01	0.0	3.3	2.8 - 3.8	21	4.52	0.04	1.0	4.5	4.0 - 5.1
All Chemistry Instruments	100	3.31	0.06	1.8	3.3	2.8 - 3.9	103	4.51	0.08	1.9	4.5	4.0 - 5.1
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	23	3.23	0.08	2.5	3.2	2.7 - 3.8	23	4.50	0.07	1.6	4.5	4.0 - 5.1
Horiba ABX Pentra 400	18	3.29	0.06	1.9	3.3	2.7 - 3.8	18	4.47	0.08	1.7	4.5	3.9 - 5.0
All Chemistry Instruments	47	3.26	0.07	2.1	3.3	2.7 - 3.8	48	4.49	0.08	1.7	4.5	3.9 - 5.0
VITROS												
VITROS 250,350,400 500,700,750,950	28	3.34	0.06	1.9	3.4	2.8 - 3.9	28	4.61	0.08	1.7	4.6	4.1 - 5.2
All Chemistry Instruments	30	3.34	0.06	1.9	3.4	2.8 - 3.9	30	4.61	0.08	1.7	4.6	4.1 - 5.2

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	192	5.74	0.14	2.4	5.7	5.2 - 6.3
Abaxis Piccolo						
Abaxis Piccolo - waived	2	-	-	-	5.5	5.1 - 6.1
All Chemistry Instruments	8	-	-	-	5.6	5.1 - 6.1
ISE Diluted						
Beckman AU systems	31	5.62	0.06	1.1	5.6	5.1 - 6.2
Roche Integra	16	5.71	0.06	1.0	5.7	5.2 - 6.3
Siemens Dimension QuickLyte - Xpand/EXL	21	5.74	0.05	0.9	5.7	5.2 - 6.3
All Chemistry Instruments	100	5.70	0.10	1.8	5.7	5.2 - 6.3
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	24	5.89	0.12	2.0	5.9	5.3 - 6.4
Horiba ABX Pentra 400	18	5.66	0.10	1.8	5.7	5.1 - 6.2
All Chemistry Instruments	49	5.77	0.16	2.8	5.8	5.2 - 6.3
VITROS						
VITROS 250,350,400 500,700,750,950	28	5.85	0.10	1.8	5.9	5.3 - 6.4
All Chemistry Instruments	30	5.85	0.10	1.8	5.9	5.3 - 6.4

Sodium (mmol/L)

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

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	207	149.4	2.5	1.7	149	145 - 154	209	128.0	2.5	1.9	128	124 - 133
Abaxis Piccolo												
Abaxis Piccolo - waived	18	151.1	1.6	1.1	151	147 - 156	18	129.4	0.8	0.6	130	125 - 134
All Chemistry Instruments	23	151.4	1.7	1.1	151	147 - 156	22	129.4	0.8	0.6	130	125 - 134
ISE Diluted												
Beckman AU systems	32	147.0	1.1	0.8	147	142 - 151	32	127.2	1.0	0.8	127	123 - 132
Roche Integra	15	147.7	1.3	0.9	148	143 - 152	16	127.4	1.2	0.9	127	123 - 132
Siemens Dimension QuickLyte - Xpand/EXL	22	149.4	1.4	0.9	149	145 - 154	22	130.0	0.8	0.6	130	126 - 134
All Chemistry Instruments	100	148.2	1.7	1.2	148	144 - 153	101	128.3	1.7	1.3	128	124 - 133
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	149.7	2.7	1.8	150	145 - 154	24	124.3	1.1	0.9	124	120 - 129
Horiba ABX Pentra 400 / C400	17	148.1	2.8	1.9	148	144 - 153	17	125.0	0.8	0.6	125	121 - 129
All Chemistry Instruments	49	148.9	2.7	1.8	149	144 - 153	46	124.7	1.2	1.0	125	120 - 129
VITROS												
VITROS 250,350,400 500,700,750,950	28	152.1	1.9	1.2	152	148 - 157	28	130.7	1.5	1.1	130	126 - 135
All Chemistry Instruments	30	152.2	2.0	1.3	152	148 - 157	30	130.7	1.6	1.2	130	126 - 135
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	193	132.3	2.4	1.8	132	128 - 137	192	145.2	2.1	1.5	145	141 - 150
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	133	129 - 138	3	-	-	-	146	143 - 152
All Chemistry Instruments	8	-	-	-	133	129 - 138	8	-	-	-	148	143 - 152
ISE Diluted												
Beckman AU systems	31	131.4	1.0	0.8	132	127 - 136	30	144.0	0.7	0.5	144	139 - 148
Roche Integra	16	131.5	1.5	1.1	131	127 - 136	16	144.3	1.7	1.2	144	140 - 149
Siemens Dimension QuickLyte - Xpand/EXL	22	134.2	0.8	0.6	134	130 - 139	22	145.8	1.0	0.7	146	141 - 150
All Chemistry Instruments	100	132.5	1.7	1.3	132	128 - 137	101	144.6	1.6	1.1	145	140 - 149
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	129.1	1.2	0.9	129	125 - 134	25	144.4	1.7	1.2	144	140 - 149
Horiba ABX Pentra 400	17	130.0	1.1	0.8	130	126 - 134	17	144.1	1.3	0.9	144	140 - 149
All Chemistry Instruments	48	129.6	1.4	1.1	130	125 - 134	49	144.3	1.6	1.1	144	140 - 149
VITROS												
VITROS 250,350,400 500,700,750,950	28	135.4	1.5	1.1	135	131 - 140	28	148.4	1.6	1.1	149	144 - 153
All Chemistry Instruments	30	135.3	1.5	1.1	135	131 - 140	30	148.5	1.7	1.2	149	144 - 153

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	192	158.2	2.8	1.8	158	154 - 163
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	159	155 - 164
All Chemistry Instruments	8	-	-	-	160	155 - 164
ISE Diluted						
Beckman AU systems	30	155.6	1.5	0.9	156	151 - 160
Roche Integra	16	156.1	1.8	1.1	156	152 - 161
Siemens Dimension QuickLyte - Xpand/EXL	22	157.0	1.5	1.0	157	153 - 162
All Chemistry Instruments	99	156.4	1.9	1.2	157	152 - 161
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	160.2	1.8	1.2	160	156 - 165
Horiba ABX Pentra 400	17	158.7	1.9	1.2	159	154 - 163
All Chemistry Instruments	49	159.2	2.2	1.4	160	155 - 164
VITROS						
VITROS 250,350,400 500,700,750,950	28	161.7	2.2	1.4	162	157 - 166
All Chemistry Instruments	30	161.7	2.3	1.4	162	157 - 166

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	243.2	38.9	16.0	260	165 - 321	13	115.8	10.6	9.1	115	92 - 140
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	141.7	14.3	10.1	146	113 - 171	13	219.4	33.1	15.1	234	153 - 286
<u>Method/Instrument</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	295.1	53.3	18.1	315	188 - 402						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	217.7	27.6	12.7	213	162 - 273	19	108.7	35.9	33.0	97	36 - 181
Siemens Healthcare												
Siemens Dimension	12	206.3	9.6	4.6	208	165 - 248	12	94.5	7.7	8.1	95	75 - 114
All Chemistry Instruments	14	204.8	10.2	5.0	208	163 - 246	14	91.5	10.7	11.7	93	70 - 113
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	129.5	36.8	28.4	118	55 - 204	19	199.8	31.0	15.5	192	137 - 262
Siemens Healthcare												
Siemens Dimension	12	112.5	5.8	5.2	112	90 - 135	12	184.3	8.4	4.5	187	147 - 222
All Chemistry Instruments	14	110.6	8.0	7.3	111	88 - 133	14	183.0	10.1	5.5	187	146 - 220
<u>Method/Instrument</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	19	256.5	28.6	11.2	256	199 - 314						
Siemens Healthcare												
Siemens Dimension	12	247.0	18.9	7.7	253	197 - 297						
All Chemistry Instruments	13	249.9	9.0	3.6	251	199 - 300						

UIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12						
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	24	107.9	6.5	6.1	108	86 - 130	24	68.3	7.7	11.3	70	52 - 84	
All Roche Reagents	13	104.4	6.4	6.1	106	83 - 126	13	63.7	7.3	11.5	63	49 - 79	
Beckman AU Beckman AU systems	10	112.5	3.7	3.3	113	90 - 135	11	78.5	14.8	18.8	74	49 - 109	
	Specimen CH-13						Specimen CH-14						
All Method	23	77.4	5.5	7.1	77	61 - 93	24	101.8	5.9	5.8	103	81 - 123	
All Roche Reagents	13	74.4	5.1	6.9	75	59 - 90	13	98.3	5.4	5.5	99	78 - 118	
Beckman AU Beckman AU systems	11	93.6	27.1	29.0	83	39 - 148	10	106.1	3.4	3.2	106	84 - 128	
	Specimen CH-15												
All Method	24	124.5	8.1	6.5	125	99 - 150							
All Roche Reagents	13	120.5	5.4	4.5	121	96 - 145							
Beckman AU Beckman AU systems	11	127.4	14.4	11.3	132	98 - 157							

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	200	164.1	15.9	9.7	166	131 - 197	199	44.5	7.7	17.3	43	35 - 54
All Alfa Wassermann Reagents	25	141.5	5.3	3.7	142	113 - 170	25	35.7	3.4	9.5	36	28 - 43
All Horiba Pentra Reagents	20	190.0	8.6	4.5	187	152 - 228	20	49.0	2.5	5.1	49	39 - 59
All Roche Reagents	29	165.8	4.0	2.4	166	132 - 199	29	42.2	1.1	2.7	42	33 - 51
Abaxis Piccolo												
Abaxis Piccolo - waived	17	151.8	4.0	2.6	151	121 - 183	17	45.5	2.6	5.7	45	36 - 55
All Chemistry Instruments	21	152.3	3.8	2.5	152	121 - 183	21	45.9	2.6	5.7	46	36 - 56
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	141.2	5.6	4.0	142	112 - 170	20	35.6	3.7	10.5	35	28 - 43
Beckman AU												
Beckman AU systems	33	152.0	4.3	2.9	153	121 - 183	33	38.4	1.2	3.0	38	30 - 47
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	190.0	8.6	4.5	187	152 - 228	20	49.0	2.5	5.1	49	39 - 59
Roche Integra												
Roche Integra	19	165.7	4.3	2.6	166	132 - 199	19	42.2	1.2	2.9	42	33 - 51
Siemens Healthcare ALTi												
Siemens Dimension	22	179.5	3.5	2.0	180	143 - 216	22	47.1	1.9	4.0	47	37 - 57
All Chemistry Instruments	23	179.2	3.6	2.0	180	143 - 216	23	47.0	1.9	4.1	47	37 - 57
VITROS												
VITROS 250,350,400 500,700,750,950	24	173.7	9.6	5.5	176	138 - 209	24	60.0	8.9	14.8	61	48 - 73
All Chemistry Instruments	24	176.3	4.7	2.7	177	141 - 212	26	60.0	8.6	14.2	61	48 - 73

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	186	69.7	9.2	13.2	69	55 - 84	187	142.3	14.1	9.9	144	113 - 171
All Alfa Wassermann Reagents	25	57.2	3.4	5.9	57	45 - 69	25	122.6	4.1	3.3	122	98 - 148
All Horiba Pentra Reagents	20	78.3	4.2	5.4	78	62 - 94	20	162.3	7.2	4.5	162	129 - 195
All Roche Reagents	29	67.9	1.8	2.7	68	54 - 82	29	142.3	3.6	2.6	143	113 - 171
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	68	54 - 83	3	-	-	-	135	106 - 160
All Chemistry Instruments	7	-	-	-	68	54 - 83	7	-	-	-	134	106 - 160
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	57.1	3.6	6.2	57	45 - 69	20	122.7	4.2	3.4	122	98 - 148
Beckman AU												
Beckman AU systems	32	61.9	1.9	3.0	62	49 - 75	33	130.2	3.5	2.7	131	104 - 157
Horiba ABX Pentra												
Horiba ABX Pentra 400	20	78.3	4.2	5.4	78	62 - 94	20	162.3	7.2	4.5	162	129 - 195
Roche Integra												
Roche Integra	19	68.1	2.0	2.9	68	54 - 82	19	142.4	3.9	2.8	143	113 - 171
Siemens Healthcare ALTi												
Siemens Dimension	22	74.8	2.2	2.9	75	59 - 90	22	154.4	3.1	2.0	155	123 - 186
All Chemistry Instruments	23	74.7	2.2	2.9	75	59 - 90	23	154.1	3.3	2.1	154	123 - 185
VITROS												
VITROS 250,350,400 500,700,750,950	24	82.4	8.0	9.8	84	65 - 99	24	152.0	8.6	5.6	154	121 - 183
All Chemistry Instruments	26	82.5	7.8	9.4	84	66 - 99	24	154.3	4.5	2.9	154	123 - 186

ALT (SGPT) (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	185	212.1	19.7	9.3	215	169 - 255
All Alfa Wassermann Reagents	25	185.5	5.2	2.8	187	148 - 223
All Horiba Pentra Reagents	19	243.5	8.9	3.6	243	194 - 293
All Roche Reagents	29	213.5	5.6	2.6	214	170 - 257
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	196	156 - 235
All Chemistry Instruments	7	-	-	-	195	156 - 235
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	185.5	5.6	3.0	187	148 - 223
Beckman AU						
Beckman AU systems	32	195.6	5.4	2.8	196	156 - 235
Horiba ABX Pentra						
Horiba ABX Pentra 400	19	243.5	8.9	3.6	243	194 - 293
Roche Integra						
Roche Integra	19	213.6	5.8	2.7	214	170 - 257
Siemens Healthcare ALTi						
Siemens Dimension	22	230.8	4.7	2.0	232	184 - 277
All Chemistry Instruments	23	230.3	5.0	2.2	231	184 - 277
VITROS						
VITROS 250,350,400 500,700,750,950	24	218.1	11.6	5.3	220	174 - 262
All Chemistry Instruments	26	218.7	11.4	5.2	220	174 - 263

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</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	205	212.7	28.4	13.4	216	148 - 277	204	68.6	6.5	9.5	68	48 - 90
All Alfa Wassermann Reagents	24	224.9	8.9	4.0	228	157 - 293	24	70.0	2.9	4.2	70	49 - 91
All Horiba Pentra Reagents	20	250.8	17.2	6.9	252	175 - 326	20	78.0	6.2	7.9	79	54 - 102
All Roche Reagents	29	223.3	5.5	2.5	223	156 - 291	29	69.4	2.2	3.2	69	48 - 91
Abaxis Piccolo												
Abaxis Piccolo - waived	17	179.8	6.6	3.7	180	125 - 234	17	64.1	3.6	5.6	63	44 - 84
All Chemistry Instruments	21	180.2	6.4	3.6	180	126 - 235	21	64.0	3.3	5.2	63	44 - 84
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	225.4	8.7	3.9	228	157 - 294	19	70.1	3.1	4.4	70	49 - 92
Beckman AU												
Beckman AU systems	32	201.8	14.7	7.3	206	141 - 263	32	62.1	4.7	7.6	63	43 - 81
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	250.8	17.2	6.9	252	175 - 326	20	78.0	6.2	7.9	79	54 - 102
Roche Integra												
Roche Integra	18	224.2	5.2	2.3	224	156 - 292	18	69.4	2.4	3.5	70	48 - 91
All Chemistry Instruments	19	224.6	5.4	2.4	224	157 - 293	19	69.5	2.4	3.5	70	48 - 91
Siemens Healthcare ALPi												
Siemens Dimension	21	244.6	6.9	2.8	246	171 - 319	21	74.7	3.7	5.0	75	52 - 98
All Chemistry Instruments	22	245.3	7.5	3.0	247	171 - 319	22	74.9	3.7	4.9	76	52 - 98
VITROS												
VITROS 250,350,400 500,700,750,950	28	176.8	9.1	5.1	175	123 - 230	28	66.4	3.7	5.6	66	46 - 87
All Chemistry Instruments	30	177.3	9.0	5.1	177	124 - 231	30	66.5	3.6	5.4	66	46 - 87

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	189	100.9	9.9	9.9	100	70 - 132	190	188.6	21.7	11.5	191	132 - 246
All Alfa Wassermann Reagents	24	103.2	4.6	4.5	104	72 - 135	24	196.1	8.0	4.1	198	137 - 255
All Horiba Pentra Reagents	20	114.8	7.8	6.8	115	80 - 150	20	216.7	14.9	6.9	217	151 - 282
All Roche Reagents	29	101.8	2.9	2.9	101	71 - 133	29	194.0	5.3	2.8	192	135 - 253
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	93	70 - 132	3	-	-	-	164	132 - 246
All Chemistry Instruments	7	-	-	-	91	62 - 117	7	-	-	-	160	113 - 210
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	103.2	5.1	5.0	104	72 - 135	19	196.3	8.6	4.4	197	137 - 256
Beckman AU												
Beckman AU systems	31	91.5	6.9	7.6	94	64 - 120	32	174.5	13.0	7.4	177	122 - 227
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	114.8	7.8	6.8	115	80 - 150	20	216.7	14.9	6.9	217	151 - 282
Roche Integra												
Roche Integra	18	101.7	3.1	3.1	101	71 - 133	18	194.1	5.4	2.8	194	135 - 253
All Chemistry Instruments	19	101.9	3.2	3.1	101	71 - 133	19	194.4	5.5	2.8	196	136 - 253
Siemens Healthcare ALPi												
Siemens Dimension	21	111.2	4.5	4.0	112	77 - 145	21	212.5	6.7	3.2	214	148 - 277
All Chemistry Instruments	22	111.5	4.5	4.0	112	78 - 145	22	213.0	7.0	3.3	214	149 - 277
VITROS												
VITROS 250,350,400 500,700,750,950	28	94.3	4.4	4.7	94	65 - 123	28	161.6	8.2	5.1	161	113 - 211
All Chemistry Instruments	30	94.5	4.4	4.6	94	66 - 123	30	162.0	8.1	5.0	162	113 - 211

Alkaline Phosphatase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	190	270.6	39.6	14.6	279	189 - 352
All Alfa Wassermann Reagents	24	286.4	12.1	4.2	288	200 - 373
All Horiba Pentra Reagents	20	314.6	20.3	6.5	315	220 - 409
All Roche Reagents	29	284.4	7.5	2.6	283	199 - 370
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	229	189 - 352
All Chemistry Instruments	7	-	-	-	229	159 - 296
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	286.6	13.4	4.7	290	200 - 373
Beckman AU						
Beckman AU systems	31	256.3	19.0	7.4	262	179 - 334
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	20	314.6	20.3	6.5	315	220 - 409
Roche Integra						
Roche Integra	18	285.2	7.8	2.7	284	199 - 371
All Chemistry Instruments	19	285.5	7.6	2.7	284	199 - 372
Siemens Healthcare ALPi						
Siemens Dimension	21	313.1	10.4	3.3	314	219 - 408
All Chemistry Instruments	22	313.9	10.7	3.4	315	219 - 409
VITROS						
VITROS 250,350,400 500,700,750,950	28	207.6	10.9	5.3	205	145 - 270
All Chemistry Instruments	30	208.3	10.9	5.2	208	145 - 271

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	178	222.9	21.3	9.5	226	178 - 268	177	124.7	9.7	7.7	127	99 - 150
All Alfa Wassermann Reagents	24	203.9	6.3	3.1	205	163 - 245	24	116.7	4.3	3.7	117	93 - 141
All Horiba Pentra Reagents	20	234.0	14.0	6.0	234	187 - 281	20	133.6	8.5	6.4	135	106 - 161
All Roche Reagents	28	231.7	6.6	2.9	233	185 - 279	28	132.3	3.9	2.9	132	105 - 159
Abaxis Piccolo												
Abaxis Piccolo - waived	16	216.3	4.6	2.1	214	173 - 260	17	124.8	3.0	2.4	125	99 - 150
All Chemistry Instruments	20	217.8	5.4	2.5	218	174 - 262	21	125.4	3.2	2.6	125	100 - 151
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	203.1	6.4	3.2	204	162 - 244	19	115.9	4.4	3.8	115	92 - 140
Beckman AU												
Beckman AU systems	33	195.3	5.8	3.0	195	156 - 235	33	111.0	3.6	3.2	112	88 - 134
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	234.0	14.0	6.0	234	187 - 281	20	133.6	8.5	6.4	135	106 - 161
Roche Integra												
Roche Integra	18	230.2	7.0	3.1	232	184 - 277	18	132.2	4.3	3.3	132	105 - 159
Siemens Healthcare												
Siemens Dimension	28	228.6	5.4	2.4	229	182 - 275	28	128.2	2.6	2.0	128	102 - 154
All Chemistry Instruments	30	228.7	5.3	2.3	229	182 - 275	30	128.1	2.6	2.0	128	102 - 154
VITROS												
VITROS 250,350,400 500,700,750,950	28	251.1	10.4	4.1	252	200 - 302	27	128.3	3.9	3.1	128	102 - 154
All Chemistry Instruments	30	251.7	10.3	4.1	254	201 - 303	29	128.7	4.2	3.3	129	102 - 155

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	163	144.2	11.8	8.2	147	115 - 174	164	204.1	18.7	9.2	209	163 - 245
All Alfa Wassermann Reagents	24	133.2	5.0	3.7	133	106 - 160	24	188.9	6.7	3.5	187	151 - 227
All Horiba Pentra Reagents	20	153.6	9.3	6.0	157	122 - 185	20	213.9	12.0	5.6	214	171 - 257
All Roche Reagents	28	152.3	4.5	3.0	154	121 - 183	28	212.1	6.3	2.9	214	169 - 255
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	144	115 - 174	3	-	-	-	196	163 - 245
All Chemistry Instruments	7	-	-	-	147	116 - 175	7	-	-	-	200	159 - 240
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	19	132.5	5.0	3.8	132	106 - 160	19	188.6	7.1	3.8	187	150 - 227
Beckman AU												
Beckman AU systems	32	128.0	4.1	3.2	128	102 - 154	33	179.3	5.5	3.1	179	143 - 216
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	20	153.6	9.3	6.0	157	122 - 185	20	213.9	12.0	5.6	214	171 - 257
Roche Integra												
Roche Integra	18	151.8	4.9	3.2	154	121 - 183	18	211.2	6.7	3.2	213	168 - 254
Siemens Healthcare												
Siemens Dimension	28	148.9	3.7	2.5	149	119 - 179	28	210.9	5.2	2.5	210	168 - 254
All Chemistry Instruments	30	148.9	3.6	2.4	149	119 - 179	30	210.8	5.1	2.4	210	168 - 253
VITROS												
VITROS 250,350,400 500,700,750,950	28	151.4	4.9	3.2	152	121 - 182	28	226.6	9.2	4.1	227	181 - 272
All Chemistry Instruments	30	152.0	5.3	3.5	152	121 - 183	30	227.6	9.6	4.2	230	182 - 274

AST (SGOT) (IU/L)

Specimen CH-15

<u><i>Instrument/Reagent</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	163	263.5	29.9	11.4	265	210 - 317
All Alfa Wassermann Reagents	24	239.0	6.8	2.9	239	191 - 287
All Horiba Pentra Reagents	20	271.4	16.9	6.2	273	217 - 326
All Roche Reagents	28	269.6	8.0	3.0	272	215 - 324
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	251	210 - 317
All Chemistry Instruments	7	-	-	-	254	203 - 305
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	19	238.6	7.1	3.0	239	190 - 287
Beckman AU						
Beckman AU systems	32	228.5	6.9	3.0	229	182 - 275
Horiba ABX Pentra						
Horiba ABX Pentra 400	20	271.4	16.9	6.2	273	217 - 326
Roche Integra						
Roche Integra	18	268.0	8.7	3.2	270	214 - 322
Siemens Healthcare						
Siemens Dimension	28	270.3	5.8	2.1	270	216 - 325
All Chemistry Instruments	30	270.0	5.7	2.1	269	216 - 325
VITROS						
VITROS 250,350,400 500,700,750,950	28	310.3	14.2	4.6	311	248 - 373
All Chemistry Instruments	30	311.6	14.6	4.7	314	249 - 374

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	70	104.3	19.1	18.3	104	72 - 136	70	29.5	3.4	11.6	30	20 - 39
All Roche Reagents	10	109.9	3.9	3.5	110	76 - 143	10	30.7	1.3	4.3	31	21 - 40
Abaxis Piccolo												
Abaxis Piccolo - waived	10	101.8	2.9	2.8	102	71 - 133	10	29.0	1.4	4.9	30	20 - 38
Beckman AU												
Beckman AU systems	13	95.1	4.3	4.6	95	66 - 124	13	24.5	1.5	5.9	24	17 - 32
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	118.4	6.4	5.4	117	82 - 154	10	32.6	1.3	4.1	32	22 - 43
Siemens Healthcare												
Siemens Dimension	10	142.3	38.7	27.2	128	99 - 185	10	32.4	1.3	3.9	32	22 - 43
All Chemistry Instruments	11	140.3	36.3	25.9	128	98 - 183	11	32.4	1.2	3.7	32	22 - 43
VITROS												
VITROS 250,350,400 500,700,750,950	10	73.9	4.4	5.9	75	51 - 97	10	30.1	0.4	1.2	30	21 - 40
All Chemistry Instruments	11	73.1	4.7	6.4	74	51 - 96	11	30.1	0.3	1.1	30	21 - 40

Amylase (IU/L)

		Specimen CH-13					Specimen CH-14					
All Method	62	43.6	7.9	18.0	45	30 - 57	62	91.0	16.1	17.7	93	63 - 119
All Roche Reagents	10	47.0	1.7	3.7	47	32 - 62	10	94.8	3.7	3.9	93	66 - 124
Abaxis Piccolo												
Abaxis Piccolo - waived	2	-	-	-	41	30 - 57	2	-	-	-	91	63 - 119
Beckman AU												
Beckman AU systems	12	39.3	1.9	4.8	39	27 - 52	12	82.1	4.0	4.9	81	57 - 107
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	47.6	6.6	13.9	49	33 - 62	10	102.2	6.1	6.0	101	71 - 133
Siemens Healthcare												
Siemens Dimension	10	52.0	0.6	1.1	52	36 - 68	10	109.9	1.9	1.7	109	76 - 143
All Chemistry Instruments	11	51.9	0.6	1.2	52	36 - 68	11	109.6	1.8	1.7	109	76 - 143
VITROS												
VITROS 250,350,400 500,700,750,950	10	32.0	2.1	6.5	32	22 - 42	10	66.5	4.6	6.9	66	46 - 87
All Chemistry Instruments	11	31.8	2.0	6.4	31	22 - 42	11	66.1	4.5	6.7	66	46 - 86
		Specimen CH-15										
All Method	62	136.2	24.2	17.8	138	95 - 178						
All Roche Reagents	10	141.3	4.5	3.2	141	98 - 184						
Abaxis Piccolo												
Abaxis Piccolo - waived	2	-	-	-	129	95 - 178						
Beckman AU												
Beckman AU systems	12	122.8	5.5	4.5	124	85 - 160						
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	150.4	9.4	6.2	149	105 - 196						
Siemens Healthcare												
Siemens Dimension	10	165.6	3.3	2.0	164	115 - 216						
All Chemistry Instruments	11	165.1	3.3	2.0	164	115 - 215						
VITROS												
VITROS 250,350,400 500,700,750,950	10	99.6	7.6	7.6	104	69 - 130						
All Chemistry Instruments	11	99.3	7.1	7.2	103	69 - 130						

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	60	516.7	41.8	8.1	535	413 - 620	60	208.1	20.4	9.8	217	166 - 250
All Horiba Pentra Reagents	11	516.7	15.6	3.0	517	413 - 621	11	209.8	11.6	5.5	210	167 - 252
All Roche Reagents	21	545.6	13.5	2.5	545	436 - 655	21	223.7	6.2	2.8	224	178 - 269
Beckman AU												
Beckman AU systems	10	447.8	16.8	3.7	450	358 - 538	10	178.7	6.1	3.4	180	142 - 215
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	516.7	15.6	3.0	517	413 - 621	10	209.8	11.6	5.5	210	167 - 252
Roche cobas c 501												
Roche cobas 6000 / c 501	10	541.3	13.3	2.5	539	433 - 650	10	218.6	5.7	2.6	217	174 - 263
Roche Integra												
Roche Integra	13	548.4	13.8	2.5	546	438 - 659	13	226.6	4.8	2.1	225	181 - 272
VITROS												
VITROS 250,350,400 500,700,750,950	10	1642.5	25.2	1.5	1634	1314 - 1971	10	667.0	11.4	1.7	666	533 - 801
All Chemistry Instruments	11	1637.0	25.1	1.5	1629	1309 - 1965	11	666.2	10.0	1.5	663	532 - 800

Lactate Dehydrogenase (IU/L)

	Specimen CH-13						Specimen CH-14					
All Method	60	269.9	28.0	10.4	283	215 - 324	60	453.1	42.5	9.4	475	362 - 544
All Horiba Pentra Reagents	11	269.5	9.7	3.6	270	215 - 324	11	447.7	28.2	6.3	455	358 - 538
All Roche Reagents	21	291.6	7.7	2.6	292	233 - 350	21	484.9	12.2	2.5	483	387 - 582
Beckman AU												
Beckman AU systems	10	234.5	8.1	3.5	236	187 - 282	10	394.1	13.1	3.3	394	315 - 473
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	269.5	9.7	3.6	270	215 - 324	10	447.7	28.2	6.3	455	358 - 538
Roche cobas c 501												
Roche cobas 6000 / c 501	10	286.6	8.3	2.9	285	229 - 344	10	480.4	13.2	2.7	478	384 - 577
Roche Integra												
Roche Integra	13	294.6	6.0	2.1	293	235 - 354	13	487.5	11.8	2.4	485	390 - 586
VITROS												
VITROS 250,350,400 500,700,750,950	10	866.3	10.4	1.2	867	693 - 1040	10	1434.8	22.8	1.6	1432	1147 - 1722
All Chemistry Instruments	11	865.2	9.3	1.1	861	692 - 1039	11	1426.0	27.8	1.9	1416	1140 - 1712

Specimen CH-15												
All Method	60	631.8	49.5	7.8	656	505 - 759						
All Horiba Pentra Reagents	11	628.0	17.1	2.7	623	502 - 754						
All Roche Reagents	21	665.6	16.0	2.4	661	532 - 799						
Beckman AU												
Beckman AU systems	10	548.7	17.0	3.1	550	438 - 659						
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	10	628.0	17.1	2.7	623	502 - 754						
Roche cobas c 501												
Roche cobas 6000 / c 501	10	662.4	16.5	2.5	662	529 - 795						
Roche Integra												
Roche Integra	13	667.5	16.7	2.5	659	533 - 801						
VITROS												
VITROS 250,350,400 500,700,750,950	10	2072.8	44.1	2.1	2068	1658 - 2488						
All Chemistry Instruments	11	2060.8	46.6	2.3	2046	1648 - 2473						

Lipase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	43.3	4.7	10.8	46	30 - 57	37	14.2	1.2	8.7	15	9 - 19
All Roche Reagents	10	42.6	3.4	7.9	43	29 - 56	10	15.1	0.6	4.2	15	10 - 20
Beckman AU												
Beckman AU systems	10	45.1	1.6	3.4	45	31 - 59	10	14.0	0.9	6.6	14	9 - 19
Siemens Healthcare												
Siemens Dimension	11	172.5	13.7	8.0	169	120 - 225	11	64.5	3.0	4.7	64	45 - 84
VITROS												
All Chemistry Instruments	10	505.8	12.4	2.5	504	354 - 658	10	125.4	2.1	1.7	125	87 - 164
Specimen CH-13						Specimen CH-14						
All Method	37	20.8	1.8	8.8	21	14 - 28	37	38.3	4.3	11.1	40	26 - 50
All Roche Reagents	10	20.9	1.2	6.0	21	14 - 28	10	37.5	3.3	8.8	38	26 - 49
Beckman AU												
Beckman AU systems	10	21.1	0.8	4.0	21	14 - 28	10	39.0	0.9	2.4	39	27 - 51
Siemens Healthcare												
Siemens Dimension	11	88.5	4.8	5.5	89	61 - 116	11	154.8	11.9	7.7	154	108 - 202
VITROS												
All Chemistry Instruments	10	211.6	4.2	2.0	210	148 - 276	10	438.4	8.6	2.0	436	306 - 570
Specimen CH-15												
All Method	37	54.2	5.9	10.8	57	37 - 71						
All Roche Reagents	10	52.9	5.0	9.5	54	37 - 69						
Beckman AU												
Beckman AU systems	10	55.8	1.3	2.3	56	39 - 73						
Siemens Healthcare												
Siemens Dimension	11	217.3	18.4	8.5	213	152 - 283						
VITROS												
All Chemistry Instruments	10	632.8	16.4	2.6	639	442 - 823						

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	208.35	13.95	6.7	207.7	166.5 - 250.2	6	35.08	1.39	4.0	35.1	30.8 - 39.3
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	71.10	2.89	4.1	71.0	62.4 - 79.8	6	172.18	10.09	5.9	171.8	141.9 - 202.5
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	268.25	17.37	6.5	267.8	216.1 - 320.4						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	21.59	1.19	5.5	21.7	16.1 - 27.0	16	7.04	0.43	6.0	7.2	5.2 - 8.8
Beckman ACCESS / 2 / Dxl	10	21.63	0.83	3.8	21.4	16.2 - 27.1	10	7.19	0.27	3.8	7.2	5.3 - 9.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	10.26	0.43	4.2	10.4	7.6 - 12.9	16	18.88	1.02	5.4	18.8	14.1 - 23.7
Beckman ACCESS / 2 / Dxl	10	10.40	0.15	1.5	10.4	7.8 - 13.0	10	18.96	0.54	2.9	19.2	14.2 - 23.7
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	26.78	1.37	5.1	27.1	20.0 - 33.5						
Beckman ACCESS / 2 / Dxl	10	27.03	1.14	4.2	27.1	20.2 - 33.8						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	47.13	5.25	11.1	46.3	31.3 - 62.9	14	49.06	6.51	13.3	48.3	29.5 - 68.6
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	48.77	6.45	13.2	48.5	29.4 - 68.2	14	47.89	6.25	13.1	46.0	29.1 - 66.7
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	46.45	5.30	11.4	44.4	30.5 - 62.4						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	1.64	0.22	13.5	1.7	0.9 - 2.4	26	1.08	0.24	22.0	1.2	0.3 - 1.8
All TOSOH Instruments	11	5.16	0.43	8.3	5.2	3.8 - 6.5	11	2.70	0.24	9.1	2.7	1.9 - 3.5
Beckman ACCESS / 2 / Dxl	14	1.69	0.15	9.0	1.7	1.2 - 2.2	14	1.08	0.12	10.8	1.1	0.7 - 1.5
TOSOH ST AIA PACK	10	5.26	0.36	6.8	5.2	4.1 - 6.4	10	2.74	0.23	8.4	2.7	2.0 - 3.5
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	1.27	0.20	15.9	1.3	0.6 - 1.9	26	1.57	0.23	14.4	1.7	0.8 - 2.3
All TOSOH Instruments	11	3.45	0.33	9.4	3.4	2.4 - 4.5	11	4.85	0.56	11.5	4.7	3.1 - 6.6
Beckman ACCESS / 2 / Dxl	14	1.21	0.12	9.6	1.3	0.8 - 1.6	14	1.58	0.15	9.7	1.6	1.1 - 2.1
TOSOH ST AIA PACK	10	3.51	0.29	8.3	3.4	2.6 - 4.4	10	4.96	0.50	10.1	4.9	3.4 - 6.5
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	1.82	0.42	22.9	2.0	0.5 - 3.1						
All TOSOH Instruments	11	5.81	0.67	11.6	5.6	3.7 - 7.9						
Beckman ACCESS / 2 / Dxl	14	2.00	0.28	14.0	2.0	1.1 - 2.9						
TOSOH ST AIA PACK	10	5.94	0.61	10.2	5.6	4.1 - 7.8						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	48	4.85	0.73	15.1	4.9	2.6 - 7.1	48	3.29	0.35	10.8	3.2	2.2 - 4.4
All Roche Instruments	10	5.70	0.21	3.7	5.7	5.0 - 6.4	10	3.24	0.15	4.7	3.3	2.7 - 3.7
All TOSOH Instruments	11	10.50	0.80	7.6	10.5	8.1 - 12.9	11	5.56	0.51	9.2	5.7	4.0 - 7.1
Beckman ACCESS / 2 / Dxl	19	4.39	0.27	6.1	4.4	3.5 - 5.3	19	3.10	0.14	4.6	3.1	2.6 - 3.6
TOSOH ST AIA PACK	10	10.63	0.89	8.3	10.7	7.9 - 13.3	10	5.78	0.35	6.1	5.9	4.7 - 6.9
	Specimen CH-13						Specimen CH-14					
All Method	48	3.84	0.50	13.1	3.8	2.3 - 5.4	48	4.63	0.70	15.1	4.7	2.5 - 6.8
All Abbott Instruments	10	4.04	0.23	5.7	4.2	3.3 - 4.8	10	5.38	0.29	5.5	5.5	4.4 - 6.3
All TOSOH Instruments	11	7.14	0.51	7.1	7.2	5.6 - 8.7	11	9.78	0.26	2.7	9.8	8.9 - 10.6
Beckman ACCESS / 2 / Dxl	19	3.52	0.15	4.3	3.5	3.0 - 4.0	19	4.17	0.26	6.3	4.3	3.3 - 5.0
TOSOH ST AIA	10	7.33	0.39	5.4	7.4	6.1 - 8.6	10	9.83	0.27	2.8	9.9	9.0 - 10.7
	Specimen CH-15											
All Method	48	5.16	0.82	15.9	5.0	2.7 - 7.7						
All Abbott Instruments	10	6.40	0.28	4.4	6.5	5.5 - 7.3						
All TOSOH Instruments	11	12.16	0.66	5.5	12.2	10.1 - 14.2						
Beckman ACCESS / 2 / Dxl	19	4.66	0.30	6.5	4.7	3.7 - 5.6						
TOSOH ST AIA	10	12.27	0.72	5.8	12.4	10.1 - 14.5						

Thyroxine (µg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	10.69	0.91	8.5	10.7	8.5 - 12.9	22	3.53	0.51	14.3	3.4	2.5 - 4.6
All TOSOH Instruments	10	10.74	0.86	8.0	10.3	8.5 - 12.9	10	3.32	0.34	10.3	3.4	2.3 - 4.4
Beckman ACCESS / 2 / Dxl	11	10.74	0.87	8.1	10.7	8.5 - 12.9	11	3.22	0.31	9.7	3.2	2.2 - 4.3
	Specimen CH-13						Specimen CH-14					
All Method	22	4.98	0.52	10.5	4.9	3.9 - 6.0	22	9.13	0.92	10.0	9.2	7.3 - 11.0
All TOSOH Instruments	10	4.74	0.47	10.0	4.5	3.7 - 5.8	10	9.06	1.06	11.7	9.7	7.2 - 10.9
Beckman ACCESS / 2 / Dxl	11	4.89	0.44	9.1	4.9	3.8 - 5.9	11	9.57	0.93	9.7	9.3	7.6 - 11.5
	Specimen CH-15											
All Method	22	12.87	1.13	8.8	12.9	10.2 - 15.5						
All TOSOH Instruments	10	12.96	1.00	7.7	13.6	10.3 - 15.6						
Beckman ACCESS / 2 / Dxl	11	13.17	0.84	6.4	12.8	10.5 - 15.9						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	134	3.15	0.65	20.6	3.0	1.2 - 5.1	133	1.37	0.18	13.3	1.3	0.8 - 2.0
All Roche Instruments	11	3.21	0.17	5.3	3.2	2.6 - 3.8	11	1.38	0.06	4.4	1.4	1.2 - 1.6
All TOSOH Instruments	28	3.89	0.34	8.7	3.9	2.8 - 5.0	28	1.56	0.18	11.5	1.6	1.0 - 2.1
Beckman ACCESS / 2 / Dxl	48	2.54	0.13	5.1	2.5	2.1 - 3.0	48	1.30	0.06	4.9	1.3	1.1 - 1.5
Siemens Dimension	21	3.69	0.20	5.5	3.7	3.0 - 4.3	21	1.40	0.10	6.9	1.4	1.1 - 1.7
TOSOH AIA PACK	10	3.82	0.40	10.5	3.8	2.6 - 5.1	10	1.49	0.21	14.0	1.5	0.8 - 2.2
TOSOH ST AIA PACK	18	3.93	0.30	7.8	3.9	3.0 - 4.9	18	1.60	0.15	9.6	1.6	1.1 - 2.1

<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	1.83	0.29	15.9	1.8	0.9 - 2.8	135	2.90	0.57	19.8	2.8	1.1 - 4.7
All Roche Instruments	11	1.84	0.10	5.6	1.8	1.5 - 2.2	11	2.91	0.16	5.6	2.9	2.4 - 3.5
All TOSOH Instruments	28	2.18	0.23	10.6	2.1	1.4 - 2.9	28	3.54	0.32	9.0	3.6	2.5 - 4.6
Beckman ACCESS / 2 / Dxl	47	1.65	0.10	6.2	1.6	1.3 - 2.0	48	2.37	0.11	4.5	2.4	2.0 - 2.7
Siemens Dimension	21	1.92	0.11	5.7	1.9	1.5 - 2.3	21	3.35	0.15	4.4	3.3	2.9 - 3.8
TOSOH AIA PACK	10	2.11	0.26	12.3	2.1	1.3 - 2.9	10	3.42	0.32	9.4	3.4	2.4 - 4.4
TOSOH ST AIA PACK	18	2.22	0.21	9.5	2.3	1.5 - 2.9	18	3.61	0.31	8.5	3.6	2.6 - 4.6

<u>Method</u>	Specimen CH-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	135	3.66	0.82	22.3	3.6	1.2 - 6.2
All Roche Instruments	11	3.85	0.23	5.9	3.8	3.1 - 4.6
All TOSOH Instruments	28	4.50	0.37	8.3	4.5	3.3 - 5.7
Beckman ACCESS / 2 / Dxl	47	2.87	0.15	5.4	2.9	2.4 - 3.4
Siemens Dimension	21	4.38	0.23	5.2	4.4	3.6 - 5.1
TOSOH AIA PACK	10	4.41	0.43	9.7	4.4	3.1 - 5.7
TOSOH ST AIA PACK	18	4.54	0.34	7.5	4.6	3.5 - 5.6

TSH (μU/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	5.92	0.79	13.3	5.9	3.5 - 8.3	170	1.37	0.21	15.1	1.3	0.7 - 2.0
All Abbott Instruments	10	5.32	0.25	4.7	5.3	4.5 - 6.1	10	1.20	0.05	3.9	1.2	1.0 - 1.4
All Roche Instruments	12	5.68	0.16	2.8	5.7	5.1 - 6.2	12	1.53	0.05	3.2	1.5	1.3 - 1.7
All TOSOH Instruments	38	6.72	0.40	6.0	6.8	5.5 - 8.0	38	1.61	0.15	9.4	1.6	1.1 - 2.1
Abbott Architect	10	5.32	0.25	4.7	5.3	4.5 - 6.1	10	1.20	0.05	3.9	1.2	1.0 - 1.4
Beckman ACCESS / 2 / Dxl	59	5.85	0.55	9.3	5.9	4.2 - 7.5	58	1.29	0.07	5.6	1.3	1.0 - 1.6
Siemens Dimension	26	5.25	0.54	10.2	5.1	3.6 - 6.9	26	1.23	0.10	8.2	1.2	0.9 - 1.6
TOSOH AIA PACK	15	6.73	0.44	6.5	6.8	5.4 - 8.1	15	1.61	0.12	7.6	1.6	1.2 - 2.0
TOSOH ST AIA PACK	23	6.72	0.39	5.7	6.7	5.5 - 7.9	23	1.61	0.17	10.6	1.6	1.0 - 2.2

<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	169	2.35	0.35	14.8	2.3	1.3 - 3.4	169	5.11	0.71	13.9	5.1	2.9 - 7.3
All Abbott Instruments	10	2.11	0.10	4.7	2.1	1.8 - 2.5	10	4.49	0.21	4.7	4.5	3.8 - 5.2
All Roche Instruments	12	2.52	0.06	2.3	2.5	2.3 - 2.7	12	4.98	0.13	2.5	5.0	4.6 - 5.4
All TOSOH Instruments	38	2.74	0.26	9.5	2.8	1.9 - 3.6	38	5.85	0.45	7.7	5.8	4.4 - 7.3
Abbott Architect	10	2.11	0.10	4.7	2.1	1.8 - 2.5	10	4.49	0.21	4.7	4.5	3.8 - 5.2
Beckman ACCESS / 2 / Dxl	58	2.23	0.15	6.7	2.2	1.7 - 2.7	59	5.01	0.44	8.8	5.0	3.6 - 6.4
Siemens Dimension	26	2.12	0.20	9.4	2.1	1.5 - 2.8	26	4.54	0.46	10.1	4.4	3.1 - 6.0
TOSOH AIA PACK	15	2.73	0.25	9.1	2.8	1.9 - 3.5	15	5.81	0.38	6.6	5.8	4.6 - 7.0
TOSOH ST AIA PACK	23	2.74	0.27	9.9	2.8	1.9 - 3.6	23	5.87	0.50	8.5	5.9	4.3 - 7.4

<u>Method</u>	Specimen CH-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	7.55	1.01	13.4	7.6	4.5 - 10.6
All Abbott Instruments	10	6.71	0.32	4.7	6.7	5.7 - 7.7
All Roche Instruments	12	6.90	0.21	3.1	6.9	6.2 - 7.6
All TOSOH Instruments	38	8.39	0.62	7.4	8.4	6.5 - 10.3
Abbott Architect	10	6.71	0.32	4.7	6.7	5.7 - 7.7
Beckman ACCESS / 2 / Dxl	57	7.53	0.82	10.9	7.7	5.0 - 10.0
Siemens Dimension	25	6.77	0.69	10.1	6.6	4.7 - 8.9
TOSOH AIA PACK	15	8.43	0.64	7.5	8.4	6.5 - 10.4
TOSOH ST AIA PACK	23	8.37	0.62	7.4	8.4	6.5 - 10.3

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-11		Specimen HCG-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	139	-	1	138
AimStep Combo Pregnancy	1	-	-	1
Alere hCG Cassette	1	-	-	1
Beckman ACCESS / 2 / DxI	1	-	-	1
Beckman Coulter ICON 20 hCG	69	-	-	69
Beckman Coulter ICON 25 hCG	3	-	-	3
BTNX Rapid Response hCG	1	-	-	1
Cardinal Health SP Brand combo	11	-	-	11
CONSULT diagnostics hCG Combo	12	-	-	12
Henry Schein One Step + Combo	4	-	-	4
i-STAT - moderate	1	-	-	1
McKesson hCG Combo Cassette	1	-	-	1
Medline hCG Combo Test Cassette	2	-	-	2
PSS Select hCG Combo	1	-	-	1
Quidel QuickVue + One-Step	8	-	-	8
Quidel QuickVue One-Step Combo	13	-	-	13
Quidel QuickVue Semi-Q hCG	1	-	-	1
Sekisui OSOM hCG Combo Test	2	-	-	2
Stanbio QUPID Plus	3	-	1	2
TOSOH ST AIA PACK	1	-	-	1

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-13		Specimen HCG-14	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	139	139	-
AimStep Combo Pregnancy	-	1	1	-
Alere hCG Cassette	-	1	1	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 20 hCG	-	69	69	-
Beckman Coulter ICON 25 hCG	-	3	3	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	11	11	-
CONSULT diagnostics hCG Combo	-	12	12	-
Henry Schein One Step + Combo	-	4	4	-
i-STAT - moderate	-	1	1	-
McKesson hCG Combo Cassette	-	1	1	-
Medline hCG Combo Test Cassette	-	2	2	-
PSS Select hCG Combo	-	1	1	-
Quidel QuickVue + One-Step	-	8	8	-
Quidel QuickVue One-Step Combo	-	13	13	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	3	3	-
TOSOH ST AIA PACK	-	1	1	-

Serum hCG – Qualitative

Specimen HCG-15

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	134	5
AimStep Combo Pregnancy	1	-
Alere hCG Cassette	1	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 20 hCG	69	-
Beckman Coulter ICON 25 hCG	2	1
BTNX Rapid Response hCG	1	-
Cardinal Health SP Brand combo	11	-
CONSULT diagnostics hCG Combo	11	1
Henry Schein One Step + Combo	4	-
i-STAT - moderate	1	-
McKesson hCG Combo Cassette	1	-
Medline hCG Combo Test Cassette	2	-
PSS Select hCG Combo	1	-
Quidel QuickVue + One-Step	8	-
Quidel QuickVue One-Step Combo	10	3
Quidel QuickVue Semi-Q hCG	1	-
Sekisui OSOM hCG Combo Test	2	-
Stanbio QUPID Plus	3	-
TOSOH ST AIA PACK	1	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-11						Specimen HCG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	1167.3	202.0	17.3	1106	561 - 1774	17	1.1	0.5	44.4	1	0 - 3
<u>Method</u>	Specimen HCG-13						Specimen HCG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	1.1	0.5	44.4	1	0 - 3	18	1712.4	272.6	15.9	1725	894 - 2531
<u>Method</u>	Specimen HCG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	16	67.4	22.3	33.1	71	0 - 135						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	195	158.5	5.3	3.3	159	142 - 175	194	79.2	11.7	14.8	76	71 - 88
All Alfa Wassermann Reagents	21	161.9	4.7	2.9	162	145 - 179	21	78.4	2.2	2.8	78	70 - 87
All Horiba Pentra Reagents	13	156.8	6.6	4.2	157	141 - 173	13	74.2	2.7	3.6	75	66 - 82
All Roche Reagents	18	157.6	4.2	2.7	158	141 - 174	18	74.5	2.0	2.7	75	67 - 82
Alere Cholestech LDX												
Alere Cholestech LDX - waived	39	160.6	6.4	4.0	161	144 - 177	37	100.0	0.1	0.0	100	90 - 110
All Chemistry Instruments	40	160.4	6.5	4.1	161	144 - 177	38	100.0	0.1	0.0	100	90 - 110
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	161.9	4.9	3.0	163	145 - 179	20	78.6	2.2	2.8	79	70 - 87
Beckman AU												
Beckman AU systems	28	156.5	4.3	2.7	157	140 - 173	28	73.2	2.2	3.0	73	65 - 81
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	156.8	6.6	4.2	157	141 - 173	13	74.2	2.7	3.6	75	66 - 82
Roche Integra												
Roche Integra	10	157.6	5.3	3.3	158	141 - 174	10	74.7	2.5	3.3	76	67 - 83
Siemens Healthcare												
Siemens Dimension	24	155.8	3.0	1.9	156	140 - 172	24	71.4	3.3	4.6	72	64 - 79
All Chemistry Instruments	27	156.1	3.0	1.9	156	140 - 172	27	72.0	3.5	4.8	72	64 - 80
VITROS												
VITROS 250,350,400 500,700,750,950	23	158.3	5.1	3.2	158	142 - 175	23	67.4	5.9	8.8	69	60 - 75
All Chemistry Instruments	24	158.3	4.9	3.1	158	142 - 175	24	67.3	5.8	8.6	69	60 - 74

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	154	91.6	4.5	4.9	91	82 - 101	154	141.6	4.4	3.1	142	127 - 156
All Alfa Wassermann Reagents	22	95.7	3.5	3.6	95	86 - 106	21	144.6	4.2	2.9	145	130 - 160
All Horiba Pentra Reagents	13	91.2	3.9	4.3	92	82 - 101	13	141.8	5.9	4.1	141	127 - 157
All Roche Reagents	18	91.5	2.7	2.9	92	82 - 101	18	141.4	3.8	2.7	142	127 - 156
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	-	-	-	100	90 - 110	5	-	-	-	146	129 - 159
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	95.7	3.5	3.7	95	86 - 106	20	144.6	4.3	3.0	145	130 - 160
Beckman AU												
Beckman AU systems	27	90.7	2.7	3.0	91	81 - 100	28	140.4	3.6	2.6	140	126 - 155
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	91.2	3.9	4.3	92	82 - 101	13	141.8	5.9	4.1	141	127 - 157
Roche Integra												
Roche Integra	10	91.5	3.4	3.7	91	82 - 101	10	140.9	5.0	3.5	141	126 - 155
Siemens Healthcare												
Siemens Dimension	24	88.4	2.8	3.2	89	79 - 98	24	138.7	3.0	2.1	139	124 - 153
All Chemistry Instruments	27	89.0	3.3	3.7	89	80 - 98	27	139.0	3.1	2.2	139	125 - 153
VITROS												
VITROS 250,350,400 500,700,750,950	22	87.9	3.5	3.9	88	79 - 97	23	141.2	4.9	3.4	141	127 - 156
All Chemistry Instruments	23	87.8	3.4	3.9	87	79 - 97	24	141.2	4.8	3.4	142	127 - 156

Cholesterol, Total (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	191.4	6.4	3.3	191	172 - 211
All Alfa Wassermann Reagents	22	192.9	5.0	2.6	193	173 - 213
All Horiba Pentra Reagents	13	189.3	7.2	3.8	187	170 - 209
All Roche Reagents	18	190.4	5.4	2.8	191	171 - 210
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	-	-	-	206	183 - 225
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	192.4	4.4	2.3	193	173 - 212
Beckman AU						
Beckman AU systems	27	189.4	4.7	2.5	189	170 - 209
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	189.3	7.2	3.8	187	170 - 209
Roche Integra						
Roche Integra	10	189.9	6.9	3.6	192	170 - 209
Siemens Healthcare						
Siemens Dimension	24	188.2	3.8	2.0	188	169 - 208
All Chemistry Instruments	26	188.7	4.1	2.2	189	169 - 208
VITROS						
VITROS 250,350,400 500,700,750,950	22	192.9	6.6	3.4	193	173 - 213
All Chemistry Instruments	23	193.0	6.5	3.4	193	173 - 213

LDL Cholesterol - Direct (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	49	64.1	12.3	19.1	62	39 - 89	49	32.0	5.2	16.3	32	21 - 43
Beckman AU Direct HDL / LDL												
Beckman AU systems	11	52.4	2.3	4.5	52	36 - 69	11	26.8	1.4	5.2	27	18 - 35
Roche LDL Direct												
Roche cobas 6000 / c 501	10	85.8	3.0	3.5	87	60 - 112	10	41.0	1.4	3.4	41	28 - 54
All Chemistry Instruments	12	84.4	3.4	4.0	85	59 - 110	12	40.4	1.5	3.7	41	28 - 53
Siemens Automated LDL												
Siemens Dimension	10	63.7	3.8	5.9	64	44 - 83	10	32.3	1.3	4.1	33	22 - 42
All Chemistry Instruments	11	63.9	3.6	5.7	64	44 - 84	11	32.5	1.4	4.2	33	22 - 43
	Specimen CH-13						Specimen CH-14					
All Method	49	39.2	7.2	18.4	37	24 - 54	49	57.9	10.9	18.9	55	36 - 80
Beckman AU Direct HDL / LDL												
Beckman AU systems	11	32.1	1.5	4.7	32	22 - 42	11	47.6	2.0	4.2	48	33 - 62
Roche LDL Direct												
Roche cobas 6000 / c 501	10	49.8	1.9	3.9	50	34 - 65	10	77.6	3.0	3.8	78	54 - 101
All Chemistry Instruments	12	49.1	2.0	4.1	50	34 - 64	12	76.0	3.4	4.5	76	53 - 99
Siemens Automated LDL												
Siemens Dimension	10	38.5	1.9	4.9	39	26 - 51	10	57.4	2.8	4.9	58	40 - 75
All Chemistry Instruments	11	38.7	2.0	5.0	39	27 - 51	11	57.7	2.9	5.0	58	40 - 76
	Specimen CH-15											
All Method	49	76.1	16.6	21.8	72	42 - 110						
Beckman AU Direct HDL / LDL												
Beckman AU systems	11	62.7	2.4	3.8	62	43 - 82						
Roche LDL Direct												
Roche cobas 6000 / c 501	10	104.8	4.1	3.9	106	73 - 137						
All Chemistry Instruments	12	102.8	4.1	4.0	103	71 - 134						
Siemens Automated LDL												
Siemens Dimension	10	74.8	3.6	4.8	76	52 - 98						
All Chemistry Instruments	11	75.3	3.8	5.0	76	52 - 98						

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	190	71.8	6.8	9.5	71	50 - 94	190	28.9	6.1	21.2	31	20 - 38
All Dex-Sulfate 50,000 MW Methods	37	68.5	6.3	9.2	68	47 - 89	36	18.8	2.1	11.3	19	13 - 25
All Direct Methods	104	72.4	7.2	10.0	71	50 - 95	99	32.1	2.8	8.8	32	22 - 42
Alere Cholestech LDX												
Alere Cholestech LDX - waived	36	68.6	6.3	9.2	69	48 - 90	35	18.9	2.2	11.4	19	13 - 25
All Chemistry Instruments	37	68.5	6.3	9.2	68	47 - 89	36	18.8	2.1	11.3	19	13 - 25
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	13	65.7	4.0	6.1	66	45 - 86	13	31.5	2.1	6.8	32	22 - 42
Beckman AU Direct HDL / LDL												
Beckman AU systems	20	70.0	3.1	4.5	70	48 - 91	20	30.7	1.8	5.9	31	21 - 40
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	65.8	4.4	6.7	65	46 - 86	13	29.5	1.3	4.5	29	20 - 39
Roche HDL Direct												
All Chemistry Instruments	12	79.4	2.4	3.1	79	55 - 104	12	33.6	1.2	3.7	33	23 - 44
Siemens Automated HDL												
Siemens Dimension	21	80.0	2.0	2.5	80	56 - 104	21	35.0	1.1	3.1	35	24 - 46
All Chemistry Instruments	24	80.1	1.9	2.4	80	56 - 105	24	35.2	1.1	3.1	35	24 - 46
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	18	74.7	3.2	4.3	75	52 - 98	18	30.7	1.6	5.2	31	21 - 40

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	150	39.8	3.9	9.8	40	27 - 52	151	64.4	5.7	8.8	64	45 - 84
All Dex-Sulfate 50,000 MW Methods	5	-	-	-	29	19 - 37	5	-	-	-	54	38 - 71
All Direct Methods	101	40.1	3.8	9.5	40	28 - 53	101	64.6	5.9	9.2	64	45 - 85
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	-	-	-	29	27 - 52	5	-	-	-	54	45 - 84
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	13	38.4	2.4	6.3	39	26 - 50	13	59.2	3.4	5.8	60	41 - 77
Beckman AU Direct HDL / LDL												
Beckman AU systems	20	38.5	1.9	5.0	39	26 - 51	20	62.1	3	4.8	62	43 - 81
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	36.8	1.6	4.5	37	25 - 48	13	58.5	2.2	3.7	59	40 - 77
Roche HDL Direct												
All Chemistry Instruments	12	43.2	1.5	3.4	43	30 - 57	12	71.2	2.4	3.3	71	49 - 93
Siemens Automated HDL												
Siemens Dimension	21	44.7	1.3	2.9	45	31 - 59	21	71.7	1.6	2.2	71	50 - 94
All Chemistry Instruments	24	44.6	1.3	2.9	45	31 - 59	24	71.6	1.6	2.2	72	50 - 94
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	17	39.3	1.4	3.7	39	27 - 52	18	64.8	2.5	3.8	65	45 - 85

Cholesterol, HDL (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	150	89.8	8.5	9.5	90	62 - 117
All Dex-Sulfate 50,000 MW Methods	5	-	-	-	91	63 - 118
All Direct Methods	101	88.8	8.8	9.9	88	62 - 116
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	-	-	-	91	62 - 117
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	13	79.1	5.5	6.9	81	55 - 103
Beckman AU Direct HDL / LDL						
Beckman AU systems	20	85.5	3.7	4.3	85	59 - 112
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	80.4	3.5	4.4	80	56 - 105
Roche HDL Direct						
All Chemistry Instruments	12	98.1	2.2	2.3	98	68 - 128
Siemens Automated HDL						
Siemens Dimension	21	98.0	2.6	2.6	98	68 - 128
All Chemistry Instruments	24	97.8	2.5	2.6	98	68 - 128
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	17	95.1	4.4	4.7	95	66 - 124

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	193	172.8	10.9	6.3	171	129 - 217	191	101.8	6	5.9	102	76 - 128
All Alfa Wassermann Reagents	21	171.6	3.7	2.2	171	128 - 215	20	106.6	2.6	2.5	107	79 - 134
All Horiba Pentra Reagents	13	170.0	8.9	5.2	171	127 - 213	13	100.8	4.8	4.7	101	75 - 126
All Roche Reagents	18	168.2	4.0	2.4	169	126 - 211	18	102.7	2.2	2.2	103	77 - 129
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	170.3	8.6	5.0	171	127 - 213	34	100.5	5	4.9	101	75 - 126
All Chemistry Instruments	36	170.4	8.5	5.0	171	127 - 213	35	100.5	4.9	4.9	101	75 - 126
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	171.7	3.8	2.2	172	128 - 215	19	106.6	2.7	2.5	107	79 - 134
Beckman AU												
Beckman AU systems	28	174.8	5.2	2.9	175	131 - 219	28	102.1	2.9	2.8	103	76 - 128
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	170.0	8.9	5.2	171	127 - 213	13	100.8	4.8	4.7	101	75 - 126
Roche Integra												
Roche Integra	10	168.3	4.9	2.9	169	126 - 211	10	102.8	2.7	2.7	103	77 - 129
Siemens Healthcare												
Siemens Dimension	24	163.2	2.0	1.2	163	122 - 204	24	92.3	2	2.1	92	69 - 116
All Chemistry Instruments	25	163.2	2.0	1.2	163	122 - 204	25	92.2	1.9	2.1	92	69 - 116
VITROS												
VITROS 250,350,400 500,700,750,950	22	194.0	5.7	2.9	195	145 - 243	23	108.6	4.9	4.5	110	81 - 136
All Chemistry Instruments	23	194.0	5.5	2.9	195	145 - 243	24	108.3	4.9	4.5	110	81 - 136

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	117.1	6.8	5.8	118	87 - 147	155	160.2	9.9	6.2	159	120 - 201
All Alfa Wassermann Reagents	21	119.8	2.3	2.0	119	89 - 150	21	160.4	3.4	2.1	160	120 - 201
All Horiba Pentra Reagents	13	116.9	5.1	4.3	119	87 - 147	13	157.8	8.7	5.5	159	118 - 198
All Roche Reagents	18	116.7	2.5	2.2	117	87 - 146	18	156.3	3.8	2.4	157	117 - 196
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	-	-	-	114	87 - 146	5	-	-	-	163	123 - 206
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	20	119.8	2.4	2.0	120	89 - 150	20	160.6	3.4	2.1	161	120 - 201
Beckman AU												
Beckman AU systems	27	117.7	3.4	2.8	118	88 - 148	28	161.3	4.7	2.9	162	120 - 202
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	116.9	5.1	4.3	119	87 - 147	13	157.8	8.7	5.5	159	118 - 198
Roche Integra												
Roche Integra	10	117.1	2.9	2.5	118	87 - 147	10	156.5	4.4	2.8	157	117 - 196
Siemens Healthcare												
Siemens Dimension	24	107.1	2.2	2.0	107	80 - 134	24	149.2	2.4	1.6	149	111 - 187
All Chemistry Instruments	25	107.0	2.2	2.0	107	80 - 134	25	149.2	2.3	1.6	149	111 - 187
VITROS												
VITROS 250,350,400 500,700,750,950	21	127.2	3.5	2.7	127	95 - 160	23	176.8	7.0	3.9	177	132 - 221
All Chemistry Instruments	23	126.2	4.8	3.8	127	94 - 158	23	177.6	5.3	3.0	177	133 - 223

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	202.3	14.3	7.1	199	151 - 253
All Alfa Wassermann Reagents	21	199.0	5.6	2.8	198	149 - 249
All Horiba Pentra Reagents	13	198.9	9.4	4.7	200	149 - 249
All Roche Reagents	18	194.7	4.8	2.5	196	146 - 244
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	-	-	-	202	153 - 256
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	20	199.3	5.6	2.8	198	149 - 250
Beckman AU						
Beckman AU systems	27	203.1	6.3	3.1	204	152 - 254
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	198.9	9.4	4.7	200	149 - 249
Roche Integra						
Roche Integra	10	194.4	5.2	2.7	196	145 - 243
Siemens Healthcare						
Siemens Dimension	23	190.2	2.1	1.1	190	142 - 238
All Chemistry Instruments	25	190.6	2.8	1.5	191	142 - 239
VITROS						
VITROS 250,350,400 500,700,750,950	21	230.1	7.2	3.1	231	172 - 288
All Chemistry Instruments	22	230.5	7.3	3.2	231	172 - 289

Acetaminophen (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	87.75	0.35	0.4	87.8	65.8 - 109.7	5	28.75	0.21	0.7	28.8	21.5 - 36.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	42.95	3.61	8.4	43.0	32.2 - 53.7	5	75.80	0.28	0.4	75.8	56.8 - 94.8
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	111.30	0.28	0.3	111.3	83.4 - 139.2						

Carbamazepine (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	10.35	0.07	0.7	10.4	7.7 - 13.0	6	4.35	0.07	1.6	4.4	3.2 - 5.5
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	5.45	0.07	1.3	5.5	4.0 - 6.9	6	9.35	0.07	0.8	9.4	7.0 - 11.7
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	12.80	0.28	2.2	12.8	9.6 - 16.0						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	1.67	0.24	14.5	1.7	1.3 - 2.1	11	0.77	0.12	15.8	0.8	0.5 - 1.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	0.93	0.18	18.8	1.0	0.7 - 1.2	11	1.47	0.27	18.6	1.6	1.1 - 1.8
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	2.12	0.34	16.2	2.2	1.6 - 2.6						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	6.35	0.21	3.3	6.4	4.7 - 8.0	5	1.80	0.01	0.0	1.8	1.3 - 2.3
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.75	0.07	2.6	2.8	2.0 - 3.5	5	5.40	0.14	2.6	5.4	4.0 - 6.8
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	8.05	0.35	4.4	8.1	6.0 - 10.1						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.65	0.07	4.3	1.7	1.3 - 2.0	5	0.50	0.01	0.0	0.5	0.2 - 0.8
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.80	0.01	0.0	0.8	0.5 - 1.1	5	1.45	0.07	4.9	1.5	1.1 - 1.8
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	2.15	0.07	3.3	2.2	1.7 - 2.6						

Phenobarbital (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	27.5	Not graded	1	-	-	-	8.3	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	12.2	Not graded	1	-	-	-	23.0	Not graded
<u>Method</u>	Specimen CH-15											
All Method	1	-	-	-	34.8	Not graded						

Phenytoin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	24.10	1.31	5.4	24.3	18.0 - 30.2	10	9.63	0.10	1.0	9.7	7.2 - 12.1
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	12.18	0.46	3.8	12.1	9.1 - 15.3	10	20.50	0.45	2.2	20.4	15.3 - 25.7
<u>Method</u>	Specimen CH-15											
All Method	10	28.20	1.12	4.0	27.9	21.1 - 35.3						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	21.6	Not graded	1	-	-	-	9.5	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	12.2	Not graded	1	-	-	-	19.4	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	26.1	Not graded						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	29.0	Not graded	1	-	-	-	12.2	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	16.6	Not graded	1	-	-	-	26.8	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	32.4	Not graded						

Valproic Acid (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	6	77.63	3.18	4.1	76.0	58.2 - 97.1	6	42.10	1.31	3.1	41.5	31.5 - 52.7	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	6	50.03	1.59	3.2	49.6	37.5 - 62.6	6	71.43	1.76	2.5	70.9	53.5 - 89.3	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
			All Method	6	89.30	2.00							

Vancomycin (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	6	34.73	1.78	5.1	35.5	26.0 - 43.5	6	7.47	0.49	6.6	7.7	5.6 - 9.4	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	6	13.43	1.06	7.9	13.6	10.0 - 16.8	6	29.00	1.82	6.3	29.9	21.7 - 36.3	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
			All Method	6	45.10	2.42							

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	174	Not graded	1	-	-	-	108	Not graded

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	63.0	1.4	2.2	63	44 - 82	5	45.0	1.4	3.1	45	31 - 59

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	10.61	0.76	7.2	11.0	8.4 - 12.8	26	6.87	0.47	6.9	7.0	5.4 - 8.3
No Reagent Required												
Bilirubinometer / Unistat	14	10.99	0.32	3.0	11.0	8.7 - 13.2	14	7.03	0.24	3.4	7.1	5.6 - 8.5
All Chemistry Instruments	18	10.96	0.35	3.2	11.0	8.7 - 13.2	18	7.04	0.22	3.1	7.1	5.6 - 8.5
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	15.68	1.06	6.8	15.9	12.5 - 18.9	26	0.07	0.12	173.5	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	14	16.29	0.46	2.8	16.3	13.0 - 19.6	14	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	18	16.19	0.46	2.9	16.3	12.9 - 19.5	18	0.07	0.14	200.4	0.0	0.0 - 0.5
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	24	6.95	0.41	5.9	7.0	5.5 - 8.4						
No Reagent Required												
Bilirubinometer / Unistat	14	6.92	0.58	8.4	7.1	5.5 - 8.4						
All Chemistry Instruments	17	7.09	0.29	4.1	7.1	5.6 - 8.6						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	4.61	0.32	7.0	4.5	3.9 - 5.3	10	1.67	0.23	13.8	1.6	1.2 - 2.2
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	5.89	0.41	6.9	5.9	5.0 - 6.8	10	0.06	0.07	109.7	0.1	0.0 - 0.2
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	2.17	1.78	82.0	1.6	0.0 - 5.8						

Blood Gases – pH

<u>Method</u>	Specimen BG-11						Specimen BG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.188	0.010	0.1	7.19	7.14 - 7.23	11	7.495	0.006	0.1	7.50	7.45 - 7.54
<u>Method</u>	Specimen BG-13						Specimen BG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.323	0.019	0.3	7.32	7.28 - 7.37	11	6.928	0.022	0.3	6.92	6.88 - 6.97
<u>Method</u>	Specimen BG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	7.498	0.010	0.1	7.50	7.45 - 7.54						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-11</u>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-12</u>			<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>		
All Method	11	56.38	2.19	3.9	56.9	51.3 - 61.4	11	23.25	1.32	5.7	23.3	18.2 - 28.3	
			<u>Specimen BG-13</u>							<u>Specimen BG-14</u>			
All Method	11	47.08	4.24	9.0	47.2	42.0 - 52.1	11	71.08	2.18	3.1	71.3	65.3 - 76.8	
			<u>Specimen BG-15</u>										
All Method	11	27.18	1.81	6.7	27.0	22.1 - 32.2							

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-11</u>				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-12</u>			<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>		
All Method	11	82.00	4.32	5.3	83.0	69.0 - 95.0	11	143.50	5.80	4.0	141.5	126.0 - 161.0	
			<u>Specimen BG-13</u>							<u>Specimen BG-14</u>			
All Method	11	188.25	11.73	6.2	190.5	153.0 - 223.5	11	56.00	2.58	4.6	56.0	48.2 - 63.8	
			<u>Specimen BG-15</u>										
All Method	11	122.00	12.44	10.2	118.0	84.6 - 159.4							

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-11 through BG-15 are: 2.1 mmol/L, 1.2 mmol/L, 1.3 mmol/L, >2.5 mmol/L, and 0.86 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-11 through BG-15 are: 75 mmol/L, 84 mmol/L, 92 mmol/L, 113 mmol/L, and 117 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-11 through BG-15 are: 2.7 mmol/L, 4.3 mmol/L, 4.5 mmol/L, 3.4 mmol/L, and 6.6 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-11 through BG-15 are: 126 mmol/L, 147 mmol/L, 137 mmol/L, 131 mmol/L, and 169 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

<u>Method</u>	<u>Specimen BG-11</u>						<u>Specimen BG-12</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	4.55	0.07	1.6	4.6	4.3 - 4.8	5	1.55	0.07	4.6	1.6	1.3 - 1.8
<u>Method</u>	<u>Specimen BG-13</u>						<u>Specimen BG-14</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.80	0.01	0.0	0.8	0.7 - 0.9	5	5.00	0.01	0.0	5.0	4.9 - 5.1
<u>Method</u>	<u>Specimen BG-15</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.00	0.01	0.0	1.0	0.9 - 1.1						

Afinion Glycohemoglobin (percent)

<u>Method</u>	<u>Specimen AFN-5</u>						<u>Specimen AFN-6</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	87	6.22	0.14	2.3	6.2	5.9 - 6.6	87	7.98	0.17	2.2	8.0	7.5 - 8.4
All Alere Afinion Analyzers	82	6.22	0.14	2.3	6.2	5.9 - 6.6	82	7.99	0.17	2.1	8.0	7.5 - 8.4
Alere Afinion AS100	77	6.22	0.14	2.3	6.2	5.9 - 6.6	77	7.98	0.17	2.2	8.0	7.5 - 8.4

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-5						Specimen GH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	127	7.45	0.28	3.8	7.4	7.0 - 7.9	128	10.73	0.44	4.1	10.7	10.0 - 11.4
All Bio-Rad Methods	5	8.14	0.30	3.6	8.1	7.6 - 8.7	5	11.24	0.30	2.7	11.1	10.5 - 12.0
All Hemoglobin A1c Methods	127	7.45	0.28	3.8	7.4	7.0 - 7.9	128	10.73	0.44	4.1	10.7	10.0 - 11.4
All Roche Methods	12	7.28	0.15	2.1	7.3	6.8 - 7.8	12	10.83	0.21	1.9	10.9	10.1 - 11.5
All TOSOH Methods	19	7.23	0.16	2.3	7.2	6.7 - 7.7	19	10.36	0.22	2.1	10.3	9.7 - 11.0
Beckman AU A1c	10	7.36	0.34	4.7	7.4	6.9 - 7.9	10	10.52	0.62	5.9	10.4	9.8 - 11.2
Roche Integra A1C	7	7.24	0.14	1.9	7.2	6.8 - 7.7	7	10.86	0.20	1.8	10.9	10.2 - 11.6
Siemens DCA Vantage	56	7.55	0.20	2.6	7.5	7.0 - 8.1	57	10.86	0.42	3.9	10.8	10.2 - 11.6
Siemens Dimension HB1C	14	7.40	0.21	2.8	7.4	6.9 - 7.9	14	10.57	0.24	2.3	10.5	9.9 - 11.3
TOSOH G8	19	7.23	0.16	2.3	7.2	6.7 - 7.7	19	10.36	0.22	2.1	10.3	9.7 - 11.0

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-11						Specimen WBG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	268	67.7	15.0	22.1	65	54 - 82	261	273.6	29.7	10.8	281	218 - 329
All Abbott Methods	33	59.1	5.8	9.8	59	47 - 72	33	267.6	16.8	6.3	267	214 - 322
All Arkray Methods	15	83.9	9.1	10.9	86	67 - 101	11	270.2	41.7	15.4	282	216 - 325
All Bayer Methods	26	47.8	4.1	8.6	48	35 - 60	27	220.2	11.5	5.2	218	176 - 265
All Hemocue Methods	60	88.0	7.0	8.0	90	70 - 106	58	292.2	7.2	2.5	293	233 - 351
All Lifescan Methods	13	61.3	3.8	6.3	61	49 - 74	14	316.3	84.4	26.7	319	253 - 380
All Roche Methods	30	71.9	2.2	3.0	72	57 - 87	30	282.2	7.1	2.5	281	225 - 339
Abbott FreeStyle Lite/Freedom Lite	7	64.9	3.4	5.3	64	51 - 78	7	272.9	8.5	3.1	273	218 - 328
Abbott FreeStyle Precision Pro	14	57.1	6.7	11.7	58	45 - 70	14	262.8	19.8	7.5	255	210 - 316
Abbott Precision XceedPro	12	58.1	3.5	6.0	58	46 - 71	12	270.2	16.3	6.0	270	216 - 325
Arkray Platinum	15	83.9	9.1	10.9	86	67 - 101	11	270.2	41.7	15.4	282	216 - 325
Bayer Contour	26	47.8	4.1	8.6	48	35 - 60	27	220.2	11.5	5.2	218	176 - 265
HemoCue Glucose 201	58	87.8	7.1	8.0	90	70 - 106	56	292.3	7.3	2.5	293	233 - 351
Home Diagnostics True Balance / TrueTrack	13	176.6	8.9	5.0	176	141 - 212	13	555.4	23.7	4.3	561	444 - 667
Lifescan One Touch Ultra/2/Mini	11	60.5	3.6	6.0	61	48 - 73	11	315.7	10.5	3.3	319	252 - 379
Medline EvenCare G2 / G3	15	68.6	6.0	8.8	70	54 - 83	16	268.6	42.8	15.9	276	214 - 323
NOVA Biomedical StatStrip	21	58.0	4.3	7.3	57	46 - 70	21	246.8	11.9	4.8	248	197 - 297
Quintet / AC	25	57.6	4.8	8.3	59	45 - 70	25	298.7	13.9	4.7	298	238 - 359
Roche Accu-Chek Aviva	5	71.2	3.3	4.6	71	56 - 86	5	281.4	7.0	2.5	280	225 - 338
Roche Accu-Chek Inform II	10	71.0	1.8	2.6	71	56 - 86	10	281.0	4.7	1.7	281	224 - 338
Roche Accu-Chek Performa	15	72.7	1.8	2.4	73	58 - 88	15	283.3	8.6	3.0	281	226 - 340
True Metrix Pro	17	56.2	2.9	5.2	56	44 - 69	17	262.6	20.7	7.9	261	210 - 316

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-13						Specimen WBG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	115.2	9.1	7.9	111	92 - 139	13	210.8	15.7	7.5	213	168 - 253
All Abbott Methods	1	-	-	-	102	81 - 123	1	-	-	-	191	152 - 230
All Bayer Methods	1	-	-	-	137	109 - 165	1	-	-	-	197	157 - 237
All Lifescan Methods	5	116.2	3.8	3.3	117	92 - 140	5	222.0	7.1	3.2	225	177 - 267
All Roche Methods	3	-	-	-	110	88 - 133	3	-	-	-	199	159 - 240
Abbott Precision XceedPro	1	-	-	-	102	92 - 139	1	-	-	-	191	168 - 253
Bayer Contour	1	-	-	-	137	92 - 139	1	-	-	-	197	168 - 253
Lifescan One Touch Ultra/2/Mini	5	116.2	3.8	3.3	117	92 - 140	5	222.0	7.1	3.2	225	177 - 267
Medline EvenCare G2 / G3	1	-	-	-	109	92 - 139	1	-	-	-	187	168 - 253
Roche Accu-Chek Inform II	2	-	-	-	111	92 - 139	2	-	-	-	199	168 - 253
Roche Accu-Chek Performa	1	-	-	-	110	92 - 139	1	-	-	-	202	168 - 253
True Metrix Pro	1	-	-	-	110	92 - 139	1	-	-	-	225	168 - 253

<u>Method</u>	Specimen WBG-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	63.1	5.4	8.5	62	50 - 76
All Abbott Methods	1	-	-	-	56	44 - 68
All Bayer Methods	1	-	-	-	118	94 - 142
All Lifescan Methods	5	60.6	2.1	3.4	61	48 - 73
All Roche Methods	3	-	-	-	70	56 - 84
Abbott Precision XceedPro	1	-	-	-	56	50 - 76
Bayer Contour	1	-	-	-	118	50 - 76
Lifescan One Touch Ultra/2/Mini	5	60.6	2.1	3.4	61	48 - 73
Medline EvenCare G2 / G3	1	-	-	-	62	50 - 76
Roche Accu-Chek Inform II	2	-	-	-	70	50 - 76
Roche Accu-Chek Performa	1	-	-	-	70	50 - 76
True Metrix Pro	1	-	-	-	57	50 - 76

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	10.946	0.642	5.9	11.30	9.66 - 12.23	5	7.186	0.563	7.8	7.14	6.05 - 8.32

Insulin (µU/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	63.39	15.96	25.2	70.5	31.4 - 95.4	13	55.98	13.62	24.3	56.6	28.7 - 83.3
Beckman ACCESS / 2 / Dxl	6	71.48	1.89	2.6	71.4	67.7 - 75.3	6	53.42	1.69	3.2	53.1	50.0 - 56.8

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	20.4	7.9	39.0	19	4 - 37	36	45.7	13.3	29.0	47	19 - 73
All TOSOH Instruments	8	24.3	5.0	20.6	27	14 - 35	8	56.4	7.1	12.6	54	42 - 71
Beckman ACCESS / 2 / Dxl	15	17.1	6.6	39.0	17	3 - 31	15	41.4	10.0	24.0	45	21 - 62
TOSOH ST AIA PACK	5	24.2	5.4	22.1	26	13 - 35	5	55.0	7.7	14.0	52	39 - 71

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

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	107	63.66	12.19	19.1	65.0	39.2 - 88.1	108	57.46	10.97	19.1	58.6	35.5 - 79.5
All Roche Instruments	11	57.58	16.74	29.1	48.0	24.1 - 91.1	11	52.40	15.09	28.8	46.3	22.2 - 82.6
All TOSOH Instruments	17	75.71	3.53	4.7	76.1	68.6 - 82.8	17	69.32	3.45	5.0	69.7	62.4 - 76.3
Abbott Architect	6	59.47	1.97	3.3	60.5	55.5 - 63.5	6	54.93	2.21	4.0	55.1	50.5 - 59.4
Beckman ACCESS / 2 / Dxl	49	67.02	5.62	8.4	66.7	55.7 - 78.3	49	59.17	4.36	7.4	59.0	50.4 - 67.9
Qualigen FastPack	5	41.72	6.02	14.4	40.4	29.6 - 53.8	5	34.24	4.74	13.8	35.3	24.7 - 43.8
Roche cobas e 411	6	51.33	15.23	29.7	44.4	20.8 - 81.8	6	45.58	12.82	28.1	39.0	19.9 - 71.3
Roche cobas e 601/e 602	5	65.08	16.78	25.8	71.6	31.5 - 98.7	5	60.58	14.51	24.0	66.1	31.5 - 89.7
Siemens Dimension	6	41.52	2.84	6.8	41.2	35.8 - 47.3	6	41.28	2.37	5.7	40.4	36.5 - 46.1
TOSOH AIA PACK	5	75.06	3.62	4.8	76.1	67.8 - 82.3	5	69.86	4.50	6.4	70.4	60.8 - 78.9
TOSOH ST AIA PACK	12	75.98	3.62	4.8	76.3	68.7 - 83.3	12	69.09	3.12	4.5	69.0	62.8 - 75.4

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	113	Not graded	1	-	-	-	187	Not graded

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	9.10	7.47	82.1	6.2	0.0 - 24.1	5	12.43	8.63	69.4	9.0	0.0 - 29.7
In-house calculation	6	13.95	8.56	61.3	14.0	0.0 - 31.1	6	18.05	9.83	54.5	18.1	0.0 - 37.8

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

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	41.345	3.984	9.6	41.50	29.39 - 53.30	17	97.665	9.475	9.7	97.80	69.23 - 126.10
Beckman ACCESS / 2 / Dxl	12	42.858	2.676	6.2	42.50	34.83 - 50.89	12	100.683	7.327	7.3	100.00	78.70 - 122.67

Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	269.7	66.8	24.8	251	188 - 351	19	769.7	194.6	25.3	698	538 - 1001
All Siemens Immulite Instruments	6	423.5	4.9	1.2	424	296 - 551	6	1174.0	215.0	18.3	1174	821 - 1527
Beckman ACCESS / 2 / Dxl	12	240.6	17.0	7.1	243	168 - 313	12	684.1	44.3	6.5	688	478 - 890
Siemens Immulite/1000	5	423.5	4.9	1.2	424	296 - 551	5	1174.0	215.0	18.3	1174	821 - 1527

BNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	93.32	16.57	17.8	61.4	60.1 - 126.5	20	4939.22	541.36	11.0	3105.0	3704.4 - 6174.1
Alere Triage	14	57.14	13.10	22.9	56.6	30.9 - 83.4	14	2777.14	400.95	14.4	2680.0	1975.2 - 3579.1
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	2046.00	438.89	21.5	1070.0	1168.2 - 2923.8	14	3731.50	968.96	26.0	1750.0	1793.5 - 5669.5
Alere Triage	10	862.60	152.47	17.7	877.0	557.6 - 1167.6	10	1548.00	161.31	10.4	1610.0	1161.0 - 1935.0
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	1076.75	228.44	21.2	518.0	619.8 - 1533.7						
Alere Triage	10	457.60	52.83	11.5	463.0	343.2 - 572.0						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	7.17	1.59	22.2	6.1	2.3 - 12.0	21	107.14	23.44	21.9	82.0	36.8 - 177.5
Alere Triage	12	2.24	0.57	25.3	2.2	0.5 - 4.0	12	38.43	3.35	8.7	37.9	28.3 - 48.5
Beckman ACCESS / 2 / Dxl	10	8.31	0.57	6.8	8.1	6.6 - 10.1	10	119.73	4.12	3.4	119.5	107.3 - 132.1
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	31.30	6.68	21.3	24.4	11.2 - 51.4	21	55.81	12.21	21.9	41.7	19.1 - 92.5
Alere Triage	12	11.47	1.36	11.9	11.1	7.3 - 15.6	12	21.34	5.54	25.9	21.5	4.7 - 38.0
Beckman ACCESS / 2 / Dxl	10	35.55	1.41	4.0	35.8	31.3 - 39.8	10	62.35	2.88	4.6	62.3	53.7 - 71.0
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	21	18.42	3.83	20.8	15.1	6.9 - 30.0						
Alere Triage	12	5.98	0.88	14.8	6.1	3.3 - 8.7						
Beckman ACCESS / 2 / Dxl	10	21.13	0.81	3.8	21.3	18.7 - 23.6						

D-Dimer (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	232.0	25.5	11.0	100	162 - 302	21	666.0	17.0	2.5	1230	466 - 866
Alere Triage	17	102.2	4.7	4.6	100	71 - 133	17	1277.9	127.5	10.0	1290	894 - 1662
Instrumentation Laboratory (IL) ACL Series	5	232.0	25.5	11.0	232	162 - 302	5	666.0	17.0	2.5	666	466 - 866
Specimen CK-13						Specimen CK-14						
All Method	15	-	-	-	453	233 - 435	15	-	-	-	751	296 - 550
Alere Triage	14	449.4	43.9	9.8	454	314 - 585	14	738.2	77.2	10.5	756	516 - 960
Instrumentation Laboratory (IL) ACL Series	1	-	-	-	334	233 - 435	1	-	-	-	423	296 - 550
Specimen CK-15												
All Method	15	-	-	-	270	212 - 396						
Alere Triage	14	268.9	55.8	20.7	265	157 - 381						
Instrumentation Laboratory (IL) ACL Series	1	-	-	-	304	212 - 396						

D-Dimer (µgFEU/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	0.1275	0.0167	13.1	0.125	0.089 - 0.166	8	1.2500	0.0752	6.0	1.240	0.875 - 1.625
Beckman AU systems	8	0.1275	0.0167	13.1	0.125	0.089 - 0.166	8	1.2500	0.0752	6.0	1.240	0.875 - 1.625
Specimen CK-13						Specimen CK-14						
All Method	8	0.4063	0.0414	10.2	0.395	0.284 - 0.529	8	0.6788	0.0615	9.1	0.665	0.475 - 0.883
Beckman AU systems	8	0.4063	0.0414	10.2	0.395	0.284 - 0.529	8	0.6788	0.0615	9.1	0.665	0.475 - 0.883
Specimen CK-15												
All Method	8	0.2575	0.0266	10.3	0.260	0.180 - 0.335						
Beckman AU systems	8	0.2575	0.0266	10.3	0.260	0.180 - 0.335						

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	32.65	3.87	11.9	37.6	22.8 - 42.5	14	464.48	113.17	24.4	413.5	238.1 - 690.9
Alere Triage	10	39.20	6.74	17.2	40.5	25.7 - 52.7	10	399.20	52.89	13.2	402.5	279.4 - 519.0
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	142.50	34.20	24.0	147.5	74.1 - 210.9	14	249.75	62.27	24.9	240.0	125.2 - 374.3
Alere Triage	10	157.20	20.56	13.1	153.0	110.0 - 204.4	10	251.00	45.82	18.3	249.0	159.3 - 342.7
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	84.15	17.05	20.3	89.3	50.0 - 118.3						
Alere Triage	10	94.79	15.44	16.3	91.3	63.9 - 125.7						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	29.3	19.5	66.7	22	0 - 69	7	3877.0	1332.8	34.4	3719	1211 - 6543
Siemens Dimension NT-proBNP	5	19.7	4.5	22.9	20	10 - 29	5	3342.3	974.4	29.2	2994	1393 - 5292
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	790.0	413.6	52.4	652	0 - 1618	7	1681.7	780.9	46.4	1387	119 - 3244
Siemens Dimension NT-proBNP	5	557.5	133.6	24.0	558	290 - 825	5	1239.0	209.3	16.9	1239	820 - 1658
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	379.3	230.3	60.7	315	0 - 841						
Siemens Dimension NT-proBNP	5	251.5	89.8	35.7	252	71 - 432						

Troponin T (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.1115	0.0417	37.4	0.112	0.028 - 0.195	5	1.0935	0.3486	31.9	1.094	0.396 - 1.791
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.3375	0.1393	41.3	0.338	0.058 - 0.617	5	0.564	0.2475	43.9	0.564	0.069 - 1.059
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	0.2125	0.1124	52.9	0.213	0.000 - 0.438						

PSA (ng/mL)

<u>Method</u>	<u>Specimen PS-5</u>						<u>Specimen PS-6</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	106	0.487	0.066	13.6	0.50	0.00 - 1.39	101	19.999	3.084	15.4	20.16	13.99 - 26.00
All TOSOH Instruments	27	0.481	0.028	5.9	0.48	0.00 - 1.39	28	16.491	0.977	5.9	16.50	11.54 - 21.44
Beckman ACCESS / 2 / Dxl	17	0.539	0.028	5.2	0.55	0.00 - 1.44	17	22.144	1.058	4.8	22.08	15.50 - 28.79
Beckman ACCESS Hybritech PSA	16	0.548	0.038	6.9	0.55	0.00 - 1.45	16	22.222	1.411	6.4	22.36	15.55 - 28.89
Siemens Dimension TPSA	15	0.457	0.049	10.7	0.45	0.00 - 1.36	14	20.219	0.973	4.8	20.16	14.15 - 26.29
TOSOH AIA PACK	11	0.478	0.034	7.1	0.49	0.00 - 1.38	11	16.549	0.845	5.1	16.46	11.58 - 21.52
TOSOH ST AIA PACK	16	0.484	0.024	5.1	0.48	0.00 - 1.39	17	16.454	1.077	6.5	16.51	11.51 - 21.40

Beta-2 microglobulin

<u>Method</u>	<u>Specimen TM-5</u>						<u>Specimen TM-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	3.330	0.204	6.1	3.34	2.71 - 3.95	5	1.924	0.081	4.2	1.90	1.68 - 2.17

CA 125 (U/mL)

<u>Method</u>	<u>Specimen TM-5</u>						<u>Specimen TM-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	157.7	35.7	22.6	215	86 - 229	14	85.6	18.3	21.4	108	48 - 123
All TOSOH Instruments	11	241.0	13.6	5.6	240	168 - 314	11	125.8	10.0	8.0	126	88 - 164
TOSOH ST AIA PACK	10	241.0	13.6	5.6	240	168 - 314	10	125.8	10.0	8.0	126	88 - 164

CA 15-3 (U/mL)

<u>Method</u>	<u>Specimen TM-5</u>						<u>Specimen TM-6</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	72.9	27.2	37.3	64	18 - 128	11	48.4	18.9	39.0	41	10 - 87

CA 19-9 (U/mL)

<u>Method</u>	<u>Specimen TM-5</u>						<u>Specimen TM-6</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	209.4	101.2	48.3	181	6 - 412	8	111.5	47.8	42.9	99	15 - 208

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	448.6	62.7	14.0	431	314 - 584	14	244.8	32.3	13.2	252	171 - 319
All TOSOH Instruments	11	448.6	62.7	14.0	431	314 - 584	11	244.8	32.3	13.2	252	171 - 319
TOSOH ST AIA PACK	10	455.6	64.3	14.1	443	318 - 593	10	242.7	34.3	14.2	245	169 - 316

CEA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	42.90	6.27	14.6	41.0	30.0 - 55.8	16	22.94	3.05	13.3	22.6	16.0 - 29.9
All TOSOH Instruments	12	39.54	1.68	4.2	39.6	27.6 - 51.5	12	21.73	1.26	5.8	21.2	15.2 - 28.3
TOSOH ST AIA PACK	10	39.81	1.57	4.0	39.8	27.8 - 51.8	10	21.93	1.20	5.5	21.7	15.3 - 28.6

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	8.983	1.371	15.3	9.20	6.28 - 11.68	11	5.194	0.864	16.6	5.60	3.63 - 6.76

PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	8.595	1.859	21.6	8.49	6.01 - 11.18	31	5.244	1.069	20.4	5.21	3.67 - 6.82

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	104.55	22.57	21.6	94.8	59.4 - 149.7	7	47.13	5.89	12.5	44.8	35.3 - 59.0
Beckman ACCESS / 2 / Dxl	5	93.40	4.26	4.6	91.3	84.8 - 102.0	5	44.23	1.38	3.1	43.7	41.4 - 47.0

CEA (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	1.00	0.07	7.1	1.2	0.0 - 2.2	14	30.56	4.99	16.3	32.7	21.3 - 39.8
TOSOH AIA PACK	10	1.24	0.09	7.2	1.2	0.0 - 2.5	10	34.22	2.20	6.4	33.8	23.9 - 44.5

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	91.97	15.09	16.4	88.7	64.3 - 119.6	14	407.31	46.17	11.3	402.4	285.1 - 529.6
Beckman ACCESS / 2 / Dxl	10	87.56	8.91	10.2	85.7	61.2 - 113.9	10	407.05	40.65	10.0	403.8	284.9 - 529.2

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	25	35.6	9.2	25.9	36	17 - 55	30	482.3	130.7	27.1	444	220 - 744
Beckman ACCESS / 2 / Dxl	13	38.5	5.8	15.1	37	26 - 51	15	434.7	75.3	17.3	400	284 - 586

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	32.5	4.1	12.6	24	22 - 43	37	240.5	23.4	9.7	189	168 - 313
All Roche Instruments	10	35.2	1.9	5.3	35	24 - 46	10	257.5	9.2	3.6	257	180 - 335
All TOSOH Instruments	20	22.4	0.7	3.3	22	15 - 30	20	174.2	7.1	4.1	175	121 - 227
Beckman ACCESS / 2 / Dxl	28	22.8	1.6	7.1	23	15 - 30	29	181.7	11.1	6.1	180	127 - 237
Siemens Dimension	12	34.8	2.3	6.6	35	24 - 46	12	242.7	8.2	3.4	244	169 - 316
TOSOH ST AIA PACK	16	22.4	0.8	3.6	23	15 - 30	16	175.8	6.9	3.9	177	123 - 229

Folate (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	1.03	0.73	71.3	0.6	0.0 - 2.1	38	5.69	2.04	35.8	6.9	3.9 - 7.4
All Roche Instruments	10	2.00	0.01	0.0	2.0	1.0 - 3.0	10	5.59	1.04	18.5	5.6	3.9 - 7.3
All Siemens Dimension Instruments	13	0.77	0.33	42.8	0.7	0.0 - 1.8	13	4.14	0.23	5.5	4.1	2.9 - 5.4
All TOSOH Instruments	13	0.70	0.34	48.1	0.8	0.0 - 1.7	13	4.39	0.55	12.6	4.4	3.0 - 5.8
Beckman ACCESS / 2 / Dxl	25	0.39	0.37	94.0	0.3	0.0 - 1.4	25	7.65	0.44	5.7	7.7	5.3 - 10.0
Siemens Dimension	11	0.84	0.34	39.9	0.7	0.0 - 1.9	11	4.23	0.18	4.3	4.2	2.9 - 5.5
TOSOH AIA PACK	10	0.67	0.41	61.2	0.8	0.0 - 1.7	10	4.57	0.66	14.4	4.5	3.1 - 6.0

FSH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	7.60	1.17	15.4	7.9	5.7 - 9.6	32	56.78	5.97	10.5	57.0	42.5 - 71.0
Beckman ACCESS / 2 / Dxl	16	7.84	0.67	8.5	8.0	5.8 - 9.8	16	60.43	4.90	8.1	60.7	45.3 - 75.6

Homocysteine (µmol/L)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	6.6	0.5	8.3	7	4 - 9	11	51.8	3.2	6.2	51	36 - 68

LH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	3.88	0.64	16.4	3.9	2.6 - 5.2	27	52.67	7.53	14.3	51.7	37.6 - 67.8
Beckman ACCESS / 2 / Dxl	16	3.87	0.36	9.4	3.9	3.0 - 4.7	16	47.80	3.21	6.7	46.3	38.2 - 57.4

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	2.55	0.33	13.1	2.5	1.7 - 3.4	19	36.19	6.20	17.1	35.7	25.3 - 47.1
Beckman ACCESS / 2 / Dxl	11	2.54	0.32	12.5	2.6	1.7 - 3.3	11	34.36	2.32	6.7	34.6	24.0 - 44.7

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	3.50	0.41	11.6	3.4	0.0 - 7.1	23	46.21	3.68	8.0	45.0	32.3 - 60.1
Beckman ACCESS / 2 / Dxl	14	3.39	0.24	7.2	3.4	0.0 - 7.0	14	46.36	3.46	7.5	45.6	32.4 - 60.3

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	72	122.5	25.9	21.1	115	85 - 160	72	1258.1	205.4	16.3	1258	880 - 1636
All Roche Instruments	11	129.8	6.1	4.7	131	90 - 169	11	1311.5	78.1	6.0	1277	918 - 1705
All TOSOH Instruments	22	121.9	16.0	13.1	124	85 - 159	22	1464.5	70.3	4.8	1454	1025 - 1904
Abbott Architect	10	101.0	6.0	5.9	103	70 - 132	10	1319.8	170.5	12.9	1392	923 - 1716
Beckman ACCESS / 2 / Dxl	24	112.4	12.0	10.7	110	78 - 147	24	1131.1	107.4	9.5	1125	791 - 1471
Roche cobas e 601/e 602	10	129.4	6.7	5.2	131	90 - 169	10	1315.0	86.8	6.6	1259	920 - 1710
TOSOH AIA PACK	10	120.4	12.1	10.0	113	84 - 157	10	1421.2	12.5	0.9	1425	994 - 1848
TOSOH ST AIA PACK	12	122.7	18.2	14.9	124	85 - 160	12	1486.2	77.8	5.2	1496	1040 - 1933

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	123.3	4.8	3.9	124	110 - 136	8	245.5	11.7	4.8	250	220 - 271

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	97	169.0	37.7	22.3	160	118 - 220	97	1142.1	178.9	15.7	1121	799 - 1485
All Roche Instruments	10	211.8	39.7	18.7	219	148 - 276	10	1432.0	172.4	12.0	1395	1002 - 1862
All TOSOH Instruments	15	188.1	19.1	10.2	188	131 - 245	15	1298.5	62.2	4.8	1305	908 - 1689
Abbott Architect	10	182.6	21.6	11.8	190	127 - 238	10	1310.4	84.7	6.5	1266	917 - 1704
Beckman ACCESS / 2 / Dxl	39	138.2	13.9	10.1	138	96 - 180	39	982.7	73.9	7.5	977	687 - 1278
Siemens Dimension	10	218.7	25.2	11.5	220	153 - 285	10	1199.7	52.2	4.4	1208	839 - 1560
TOSOH AIA PACK	10	188.0	15.5	8.3	188	131 - 245	10	1325.3	55.0	4.2	1314	927 - 1723
TOSOH ST AIA PACK	12	188.2	25.3	13.4	184	131 - 245	12	1258.3	52.4	4.2	1276	880 - 1636

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-11						Specimen ETH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	113.3	9.9	8.7	118	84 - 142	5	120.0	7.8	6.5	124	90 - 150
<u>Method</u>	Specimen ETH-13						Specimen ETH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	184.0	15.1	8.2	189	138 - 230	5	9.0	1.7	19.2	10	6 - 12
<u>Method</u>	Specimen ETH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	5	151.7	10.2	6.7	156	113 - 190						

Acetone

<u>Method</u>	Specimen ETH-11					Specimen ETH-12				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	13	-	-	3	10	13	13	-	-	-
Biorex Labs K-CHECK	11	-	-	2	9	11	11	-	-	-
Germaine Laboratories AimTab	1	-	-	1	-	1	1	-	-	-
Siemens Acetest	1	-	-	-	1	1	1	-	-	-
<u>Method</u>	Specimen ETH-13					Specimen ETH-14				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	13	-	-	4	9	13	13	-	-	-
Biorex Labs K-CHECK	11	-	-	3	8	11	11	-	-	-
Germaine Laboratories AimTab	1	-	-	1	-	1	1	-	-	-
Siemens Acetest	1	-	-	-	1	1	1	-	-	-
<u>Method</u>	Specimen ETH-15									
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>					
ALL METHODS	13	13	-	-	-					
Biorex Labs K-CHECK	11	11	-	-	-					
Germaine Laboratories AimTab	1	1	-	-	-					
Siemens Acetest	1	1	-	-	-					

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	3.711	7.187	193.7	0.10	0.00 - 25.28	15	121.919	36.192	29.7	140.00	13.34 - 230.50
Beckman ACCESS / 2 / Dxl	11	0.160	0.272	169.8	0.10	0.00 - 0.98	10	142.978	5.036	3.5	141.00	127.86 - 158.09

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	4.170	8.481	203.4	0.00	0.00 - 29.62	20	4.387	3.042	69.3	2.80	0.00 - 13.52
Beckman ACCESS / 2 / Dxl	12	0.063	0.113	180.9	0.00	0.00 - 0.41	12	2.675	0.186	7.0	2.60	2.11 - 3.24

Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-5						Specimen AMM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	207.0	9.9	4.8	207	187 - 227	5	79.0	4.2	5.4	79	70 - 88

Adulterated Urine – Specific Gravity

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	1.0100	0.0071	0.7	1.010	1.000 - 1.020	5	1.0150	0.0001	0.0	1.015	1.005 - 1.025

Adulterated Urine – Specific Gravity Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	3	3	-	3	2	1
Carolina Chemistries BiOlis	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	1	1	-	1	1	-
Indiko Plus	1	1	-	1	1	-
McKesson Consult Drug Panel	3	3	-	3	2	1

Adulterated Urine – pH

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	3.20	0.35	10.8	3.0	2.2 - 4.2	5	6.67	0.58	8.7	7.0	5.6 - 7.7

Adulterated Urine – pH Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	6	3	3	6	6	-
Axiom Diagnostics	1	-	1	1	1	-
Carolina Chemistries BiOlis	2	2	-	2	2	-
CLIAwaived, Inc. Drug Test	1	1	-	1	1	-
Indiko Plus	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-

Adulterated Urine – Creatinine (mg/dL)

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	56.95	3.32	5.8	57.0	47.2 - 66.7	5	0.23	0.25	107.9	0.2	0.0 - 3.3
Beckman AU	4	-	-	-	54.6	47.2 - 66.7	5	0.10	0.14	141.4	0.1	0.0 - 3.1

Adulterated Urine – Creatinine Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	4	4	-	4	-	4
Beckman AU	1	1	-	1	-	1
Carolina Chemistries BiOlis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
McKesson Consult Drug Panel	1	1	-	1	-	1

Adulterated Urine – Nitrite Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	1	1	-	1	1	-
McKesson Consult Drug Panel	1	1	-	1	1	-

Adulterated Urine – Oxidants Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>
ALL METHODS	3	3	-	3	3	-
Beckman AU	1	1	-	1	1	-
CLIAwaived, Inc. Drug Test	1	1	-	1	1	-
McKesson Consult Drug Panel	1	1	-	1	1	-

Ethyl Glucuronide (EtG) (ng/mL)

<u>Method</u>	Specimen ETG-5			Specimen ETG-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	2	-	2	-	2
Cut-off 500						
Beckman AU	1	1	-	1	-	1
Medica EasyRA	1	1	-	1	-	1
All Cut-off 500	2	2	-	2	-	2

Urine Drug Screen

Acetaminophen (µg/mL)

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

Amphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	98	1	97	98	-	98
Cut-off 500						
Alere iCup	4	-	4	4	-	4
Beckman AU	3	-	3	3	-	3
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Indiko Plus	2	-	2	2	-	2
McKesson Consult Drug Panel	4	-	4	4	-	4
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	1	-	1	1	-	1
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	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	30	-	30	30	-	30
Cut-off 1000						
Alere iCassette	4	-	4	4	-	4
Alere iCup	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	24	-	24	24	-	24
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
First Sign Drugs of Abuse	7	-	7	7	-	7
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
McKesson Drug Panel	1	-	1	1	-	1
Microgenics DRI	6	-	6	6	-	6
Noble Medical Inc.	2	-	2	2	-	2
Roche cobas 6000 / c 501	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	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	63	-	63	63	-	63

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	17	-	17	17	-	17
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Alere iCup	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
McKesson Consult Drug Panel	4	-	4	4	-	4
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 500	10	-	10	10	-	10
Cut-off 1000						
Abbott Architect	1	-	1	1	-	1
First Sign Drugs of Abuse	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	-	4

Barbiturates (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	82	-	82	83	82	1
Cut-off 100						
Beckman AU	1	-	1	1	1	-
Noble Medical Inc.	1	-	1	1	1	-
All Cut-off 100	2	-	2	2	2	-
Cut-off 200						
Abbott Architect	1	-	1	1	1	-
Beckman AU	4	-	4	4	4	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
MEDTOX Diagnostics	6	-	6	6	6	-
Microgenics DRI	4	-	4	4	4	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	2	-	2	2	2	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 200	24	-	24	24	24	-
Cut-off 300						
Alere iCassette	4	-	4	4	4	-
Alere iCup	6	-	6	6	6	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	24	-	24	24	24	-
CLIAwaived, Inc. Drug Test	4	-	4	4	3	1
McKesson Consult Drug Panel	5	-	5	5	5	-
McKesson Drug Panel	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 300	55	-	55	56	55	1

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	104	-	104	104	-	104
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						
Immunalysis	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
All Cut-off 150	7	-	7	7	-	7
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	8	-	8	8	-	8
Mindray BS-200/BS-480	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	4	-	4	4	-	4
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	25	-	25	25	-	25
Cut-off 300						
Alere iCassette	4	-	4	4	-	4
Alere iCup	6	-	6	6	-	6
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Alfa Scientific Instant-View	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	23	-	23	23	-	23
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
First Sign Drugs of Abuse	6	-	6	6	-	6
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Microgenics CEDIA	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 300	65	-	65	65	-	65

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	42	-	42	42	-	42
Cut-off 5						
Beckman AU	3	-	3	3	-	3
Immunoanalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics CEDIA	4	-	4	4	-	4
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	15	-	15	15	-	15
Cut-off 10						
Alere iCup	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Chemtron Biotech	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics CEDIA	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
All Cut-off 10	22	-	22	22	-	22
Cut-off 20						
Indiko Plus	1	-	1	1	-	1
Microgenics CEDIA	2	-	2	2	-	2
All Cut-off 20	3	-	3	3	-	3

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	105	-	105	106	106	-
Cut-off 20						
Roche Integra	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 20	2	-	2	2	2	-
Cut-off 50						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	4	-	4	4	4	-
Alere iCup	7	-	7	7	7	-
Alere Triage	1	-	1	1	1	-
Alfa Scientific Instant-View	8	-	8	8	8	-
Beckman AU	4	-	4	4	4	-
Bio-Rad TOX/See	1	-	1	1	1	-
BMC QuickTox Drug Screen	23	-	23	23	23	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
CLIAwaived, Inc. Drug Test	4	-	4	4	4	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Germaine Laboratories AimScreen	2	-	2	2	2	-
Healgen Scientific Urine Drug Test	1	-	1	1	1	-
Indiko Plus	2	-	2	2	2	-
McKesson Consult Drug Panel	5	-	5	5	5	-
McKesson Drug Panel	1	-	1	1	1	-
MEDTOX Diagnostics	6	-	6	6	6	-
Microgenics DRI	8	-	8	8	8	-
Mindray BS-200/BS-480	1	-	1	1	1	-
Noble Medical Inc.	3	-	3	3	3	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Roche Cobas 8000 / c502	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	3	-	3	3	3	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	1	-	1	1	1	-
All Cut-off 50	100	-	100	101	101	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-

Carisoprodol (ng/mL)

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

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	119	117	2	118	1	117
Cut-off 50						
First Sign Drugs of Abuse	2	2	-	2	-	2
All Cut-off 50	2	2	-	2	-	2
Cut-off 100						
Beckman AU	1	1	-	1	-	1
Lin-Zhi International	1	1	-	1	-	1
All Cut-off 100	2	2	-	2	-	2
Cut-off 150						
Alere iCup	5	5	-	5	-	5
Beckman AU	3	3	-	3	-	3
CLIAwaived, Inc. Drug Test	2	2	-	2	-	2
First Sign Drugs of Abuse	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
McKesson Consult Drug Panel	5	5	-	5	-	5
Medica EasyRA	1	1	-	1	-	1
MEDTOX Diagnostics	6	6	-	6	-	6
Microgenics DRI	2	2	-	2	-	2
Noble Medical Inc.	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	2	2	-	2	-	2
Synermed IR 500	1	1	-	1	-	1
All Cut-off 150	34	34	-	33	-	33

Cocaine Metabolites (ng/mL) (cont'd)

	Specimen UDS-5			Specimen UDS-6		
Cut-off 300	1	1	-	1	-	1
Abbott Architect	4	4	-	4	-	4
Alere iCassette	2	2	-	2	-	2
Alere iCup	1	1	-	1	-	1
Alere Triage	8	8	-	8	-	8
Alfa Scientific Instant-View	1	1	-	1	-	1
Beckman AU	1	1	-	1	-	1
Bio-Rad TOX/See	23	23	-	23	-	23
BMC QuickTox Drug Screen	2	2	-	2	-	2
Carolina Chemistries BioLis 24i	3	2	1	3	1	2
CLIAwaived, Inc. Drug Test	4	4	-	4	-	4
First Sign Drugs of Abuse	2	2	-	2	-	2
Germaine Laboratories AimScreen	1	1	-	1	-	1
Healgen Scientific Urine Drug Test	1	1	-	1	-	1
McKesson Drug Panel	8	8	-	8	-	8
Microgenics DRI	2	2	-	2	-	2
Noble Medical Inc.	1	1	-	1	-	1
Roche cobas 6000 / c 501	1	1	-	1	-	1
Roche Cobas 8000 / c502	1	1	-	1	-	1
Roche Integra	2	2	-	2	-	2
Siemens EMIT II Plus	2	2	-	2	-	2
USDiagnosics One Step Multi-Drug	1	1	-	1	-	1
USDiagnosics UScreen Cup	77	76	1	77	1	76

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	3	-	3	3	3	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 150						
Microgenics DRI	1	-	1	1	1	-
All Cut-off 150	1	-	1	1	1	-
Cut-off 300						
Immunalysis	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	14	-	14	14	-	14
Cut-off 10						
Abbott Architect	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 10	2	-	2	2	-	2
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 50						
Beckman AU	1	-	1	1	-	1
All Cut-off 50	1	-	1	1	-	1
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	5	-	5	5	-	5
All Cut-off 100	8	-	8	8	-	8
Cut-off 3						
Roche Cobas 8000 / c502	1	-	1	1	-	1
All Cut-off 3	1	-	1	1	-	1

Fentanyl (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	6	-	6	6	-	6
Cut-off 2						
Immunalysis	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
Microgenics DRI	3	-	3	3	-	3
All Cut-off 2	6	-	6	6	-	6

Hydrocodone (ng/mL)

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

LSD (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	-	2

MDMA (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	54	-	54	54	-	54
Cut-off 100						
First Sign Drugs of Abuse	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 500						
Alere iCassette	1	-	1	1	-	1
Alere iCup	6	-	6	6	-	6
Beckman AU	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	23	-	23	23	-	23
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 500	53	-	53	53	-	53

Meperidine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	2	-	2	2	2	-

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	86	80	6	85	-	85
Cut-off 100						
Beckman AU	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1
Cut-off 150						
Siemens EMIT II Plus	2	2	-	2	-	2
All Cut-off 150	2	2	-	2	-	2
Cut-off 200						
MEDTOX Diagnostics	6	6	-	6	-	6
All Cut-off 200	6	6	-	6	-	6
Cut-off 300						
Abbott Architect	1	1	-	1	-	1
Alere iCassette	4	4	-	4	-	4
Alere iCup	6	6	-	6	-	6
Beckman AU	3	3	-	3	-	3
Bio-Rad TOX/See	1	1	-	1	-	1
BMC QuickTox Drug Screen	23	19	4	23	-	23
Carolina Chemistries BioLis 24i	2	2	-	2	-	2
CLIAwaived, Inc. Drug Test	4	3	1	4	-	4
First Sign Drugs of Abuse	1	1	-	1	-	1
McKesson Consult Drug Panel	5	4	1	5	-	5
McKesson Drug Panel	1	1	-	1	-	1
Microgenics DRI	9	9	-	9	-	9
Noble Medical Inc.	1	1	-	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
Roche cobas 6000 / c 501	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
Siemens EMIT II Plus	2	2	-	2	-	2
Synermed IR 500	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	2	2	-	2	-	2
USDiagnostics UScreen Cup	1	1	-	1	-	1
All Cut-off 300	75	69	6	74	-	74

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	74	1	73	74	-	74
Cut-off 500						
Alere iCup	5	-	5	5	-	5
Alere Triage	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
BMC QuickTox Drug Screen	23	-	23	23	-	23
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Noble Medical Inc.	1	-	1	1	-	1
All Cut-off 500	46	-	46	46	-	46
Cut-off 1000						
Alere iCassette	4	-	4	4	-	4
Alere iCup	2	-	2	2	-	2
Alfa Scientific Instant-View	1	-	1	1	-	1
Bio-Rad TOX/See	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	1	1	2	-	2
First Sign Drugs of Abuse	6	-	6	6	-	6
McKesson Drug Panel	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	24	1	23	24	-	24

Methanol (mg/dL)

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

Methaqualone (ng/mL)

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

6-MAM (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	6	-	6	6	-	6
Cut-off 10						
Beckman AU	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics CEDIA	3	-	3	3	-	3
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 10	6	-	6	6	-	6

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	122	120	2	122	120	2
Cut-off 100						
Beckman AU	1	1	-	1	1	-
Immunalysis	1	1	-	1	1	-
MEDTOX Diagnostics	4	4	-	4	4	-
All Cut-off 100	6	6	-	6	6	-
Cut-off 300						
Abbott Architect	1	1	-	1	1	-
Alere iCup	5	4	1	5	4	1
Alere iScreen	1	1	-	1	1	-
Alere Triage	1	1	-	1	1	-
Alfa Scientific Instant-View	2	2	-	2	2	-
Beckman AU	5	5	-	5	5	-
BMC QuickTox Drug Screen	23	23	-	23	23	-
Carolina Chemistries BioLis 24i	2	2	-	2	2	-
CLIAwaived, Inc. Drug Test	1	1	-	1	1	-
First Sign Drugs of Abuse	1	1	-	1	1	-
Indiko Plus	1	1	-	1	1	-
McKesson Consult Drug Panel	5	5	-	5	5	-
McKesson Drug Panel	1	1	-	1	1	-
Medica EasyRA	1	1	-	1	1	-
Microgenics DRI	8	8	-	8	8	-
Mindray BS-200/BS-480	1	1	-	1	1	-
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	1	-
Roche cobas 6000 / c 501	1	1	-	1	1	-

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

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Roche Cobas 8000 / c502	1	1	-	1	1	-
Roche Integra	2	2	-	2	2	-
Siemens Dimension	1	1	-	1	1	-
Siemens EMIT II Plus	4	4	-	4	4	-
Synermed IR 500	1	1	-	1	1	-
USDiagnositics One Step Multi-Drug	1	1	-	1	1	-
All Cut-off 300	73	72	1	73	72	1
Cut-off 1000						
Microgenics DRI	1	1	-	1	1	-
All Cut-off 1000	1	1	-	1	1	-
Cut-off 2000						
Alere iCassette	4	4	-	4	4	-
Alere iCup	2	2	-	2	2	-
Alfa Scientific Instant-View	6	6	-	6	6	-
Bio-Rad TOX/See	1	1	-	1	1	-
CLIAwaived, Inc. Drug Test	3	3	-	3	3	-
First Sign Drugs of Abuse	6	6	-	6	6	-
Germaine Laboratories AimScreen	2	2	-	2	2	-
Healgen Scientific Urine Drug Test	1	1	-	1	1	-
MEDTOX Diagnostics	1	1	-	1	1	-
Microgenics DRI	1	1	-	1	1	-
Noble Medical Inc.	3	3	-	3	3	-
USDiagnositics One Step Multi-Drug	1	1	-	1	1	-
USDiagnositics UScreen Cup	1	1	-	1	1	-
All Cut-off 2000	36	36	-	36	36	-

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	84	1	83	84	-	84
Cut-off 100						
Alere iCassette	2	-	2	2	-	2
Alere iCup	6	-	6	6	-	6
Alere iScreen	1	-	1	1	-	1
Alere Triage	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	23	1	22	23	-	23
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
First Sign Drugs of Abuse	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
Medica EasyRA	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	7	-	7	7	-	7
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnosics One Step Multi-Drug	1	-	1	1	-	1
USDiagnosics UScreen Cup	1	-	1	1	-	1
All Cut-off 100	77	1	76	77	-	77
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
All Cut-off 300	4	-	4	4	-	4

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	74	-	74	74	-	74
Cut-off 25						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	4	-	4	4	-	4
Alere iCup	3	-	3	3	-	3
Beckman AU	3	-	3	3	-	3
Bio-Rad TOX/See	1	-	1	1	-	1
BMC QuickTox Drug Screen	23	-	23	23	-	23
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	3	-	3	3	-	3
First Sign Drugs of Abuse	1	-	1	1	-	1
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
MEDTOX Diagnostics	6	-	6	6	-	6
Microgenics DRI	3	-	3	3	-	3
Noble Medical Inc.	3	-	3	3	-	3
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche Cobas 8000 / c502	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 25	71	-	71	71	-	71
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	23	-	23	23	21	2
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	2	-	2	2	2	-
Alere iCup	1	-	1	1	-	1
Beckman AU	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
McKesson Consult Drug Panel	5	-	5	5	4	1
McKesson Drug Panel	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	2	-	2	2	2	-
All Cut-off 300	22	-	22	22	20	2

Tramadol (ng/mL)

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

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	21	-	21	21	-	21
Cut-off 300						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 300	5	-	5	5	-	5
Cut-off 1000						
Alere iCassette	2	-	2	2	-	2
Alere iCup	2	-	2	2	-	2
Bio-Rad TOX/See	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
McKesson Consult Drug Panel	5	-	5	5	-	5
McKesson Drug Panel	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 1000	15	-	15	15	-	15

Zolpidem (mg/dL)

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

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	275	Not graded	1	-	-	-	123	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	4.85	0.49	10.2	4.9	3.3 - 6.4	5	9.40	0.42	4.5	9.4	6.4 - 12.4

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	231	Not graded	2	-	-	-	78	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	184.81	11.43	6.2	182.2	153.3 - 216.3	8	62.13	4.67	7.5	60.9	51.5 - 72.7

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	275	Not graded	2	-	-	-	22	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	9.5	Not graded	2	-	-	-	3.2	Not graded

Urine Osmolality (mOsm/kg)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	640	Not graded	2	-	-	-	395	Not graded

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	63.7	Not graded	2	-	-	-	17.9	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	96	Not graded	3	-	-	-	23	Not graded

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	176.5	0.7	0.4	177	130 - 223	5	87.5	0.7	0.8	88	64 - 111

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	100.79	4.90	4.9	102.6	56.4 - 145.2	7	9.11	1.94	21.3	8.7	5.1 - 13.2

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	694	Not graded	2	-	-	-	405	Not graded

Urine Uric Acid (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	9.3	Not graded	1	-	-	-	4.5	Not graded

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