

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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

Chemistry
MLE – M3

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2006 EVALUATION CRITERIA

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

Acetaminophen	± 3 SD	Homocysteine	± 3 SD
Acid Phosphatase	Not Evaluated	Iron	$\pm 20\%$
Albumin	$\pm 10\%$	LDL Cholesterol	± 3 SD
Alpha-fetoprotein	± 3 SD	Lactate Dehydrogenase	$\pm 20\%$
Alkaline Phosphatase	$\pm 30\%$	LDL Cholesterol	± 3 SD
ALT (SGPT)	$\pm 20\%$	Lipase	± 3 SD
Amylase	$\pm 30\%$	LH	± 3 SD
Apolipoprotein A1, B	± 3 SD	Lithium	± 0.3 mmol/L or $20\% *$
AST (SGOT)	$\pm 20\%$	Magnesium	$\pm 25\%$
B-Type Natriuretic Peptide (BNP)	± 3 SD	Myoglobin (Qualitative)	80% Consensus
Beta-2 Microglobulin	± 3 SD	Myoglobin (Quantitative)	± 3 SD
Bilirubin, Direct	± 3 SD	PAP	± 3 SD
Bilirubin, Total	± 0.4 mg/dL or $20\% *$	Phenobarbital	$\pm 20\%$
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or $20\% *$	Phenytoin	$\pm 25\%$
CA 125	± 3 SD	Phosphorus	± 3 SD
CA 15-3	± 3 SD	Potassium	± 0.5 mmol/L
CA 19-9	± 3 SD	Progesterone	± 3 SD
CA 27/29	± 3 SD	Prolactin	± 3 SD
Calcium	± 1.0 mg/dL	Protein, Total	$\pm 10\%$
Calcium, Ionized	± 3 SD	PSA	± 3 SD
Carbamazepine	$\pm 25\%$	PSA, Free	± 3 SD
CEA	± 3 SD	pCO ₂	± 5 mmHg or $8\% *$
Chloride	$\pm 5\%$	pH	± 0.04
Cholesterol	$\pm 10\%$	pO ₂	± 3 SD
CK-MB (Qualitative)	80% Consensus	Quinidine	$\pm 25\%$
CK-MB (Quantitative)	± 3 SD	Salicylate	± 3 SD
CO ₂	± 3 SD	Sodium	± 4.0 mmol/L
Cortisol	$\pm 25\%$	T Uptake (Uptake Units)	± 3 SD
Creatine Kinase	$\pm 30\%$	T ₃ Uptake (% Uptake)	± 3 SD
Creatinine	± 0.3 mg/dL or $15\% *$	T ₃ , Free	± 3 SD
D-Dimer	± 3 SD	T ₄ , Free	± 3 SD
Digoxin	± 0.2 mg/dL or $20\% *$	Testosterone	± 3 SD
Estradiol	± 3 SD	Theophylline	$\pm 25\%$
Ferritin	± 3 SD	Thyroxine, Total T ₄	± 1.0 mcg/dL or $20\% *$
Fluid Differential	± 3 SD	TIBC	Not Evaluated
Fluid RBC	± 3 SD	Triglyceride	$\pm 25\%$
Fluid WBC	± 3 SD	Triiodothyronine, Total T ₃	± 3 SD
Folate	± 3 SD	Troponin I (Qualitative)	80% Consensus
Fructosamine	± 3 SD	Troponin I (Quantitative)	± 3 SD
FSH	± 3 SD	Troponin T (Qualitative)	80% Consensus
Gentamicin	$\pm 25\%$	TSH	± 3 SD
GGT	± 3 SD	Urea Nitrogen	± 2.0 mg/dL or $9\% *$
Glucose, Serum	± 6 mg/dL or $10\% *$	Uric Acid	$\pm 17\%$
Glucose, Whole Blood	± 3 SD	Urine Drug Screen	80% Consensus
Glycohemoglobin	± 3 SD	Valproic Acid	$\pm 25\%$
HDL Cholesterol	$\pm 30\%$	Vancomycin	± 3 SD
HCG, Serum—Qualitative	80% Consensus	Vitamin B ₁₂	± 3 SD
HCG, Serum—Quantitative	± 3 SD		
Hematocrit	$\pm 6\%$		
Hemoglobin	$\pm 7\%$		

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	<u>Specimen IST-11</u>					<u>Specimen IST-12</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	54	141.0	0.7	0.5	141	55	166.6	0.9	0.5	167
<u>Instrument</u>	<u>Specimen IST-13</u>					<u>Specimen IST-14</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	55	120.0	0.4	0.4	120	53	140.9	0.5	0.4	141
<u>Instrument</u>	<u>Specimen IST-15</u>									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	55	166.5	0.9	0.5	166					

Potassium (mmol/L)

<u>Instrument</u>	<u>Specimen IST-11</u>					<u>Specimen IST-12</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	53	4.73	0.05	1.1	4.7	55	7.02	0.07	0.9	7.0
<u>Instrument</u>	<u>Specimen IST-13</u>					<u>Specimen IST-14</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	53	2.90	0	0	2.9	56	4.75	0.06	1.3	4.8
<u>Instrument</u>	<u>Specimen IST-15</u>									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	56	7.06	0.09	1.3	7.1					

Chloride (mmol/L)

<u>Instrument</u>	<u>Specimen IST-11</u>					<u>Specimen IST-12</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	45	100.0	0.7	0.7	100	47	126.9	1.1	0.9	127
<u>Instrument</u>	<u>Specimen IST-13</u>					<u>Specimen IST-14</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	47	74.8	0.8	1.0	75	47	100.0	0.7	0.7	100
<u>Instrument</u>	<u>Specimen IST-15</u>									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	47	127.1	0.9	0.7	127					

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	<u>Specimen IST-11</u>					<u>Specimen IST-12</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	50	31.2	1.0	3.3	31	50	63.3	2.3	3.7	63
<u>Instrument</u>	<u>Specimen IST-13</u>					<u>Specimen IST-14</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	50	7.2	0.4	5.6	7	49	31.5	0.9	2.8	31
<u>Instrument</u>	<u>Specimen IST-15</u>									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	50	64.3	2.4	3.7	64					

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	32	198.0	2.5	1.2	197	33	56.3	0.9	1.6	56
<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	33	329.4	3.9	1.2	329	33	197.2	2.4	1.2	197
<u>Instrument</u>	Specimen IST-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	33	56.4	1.3	2.3	56					

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	20	33.0	0.7	2.1	33	21	44.6	0.9	2.1	45
<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	21	22.4	0.8	3.6	22	20	33.0	0.6	1.7	33
<u>Instrument</u>	Specimen IST-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	21	45.6	2.9	6.3	45					

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	20	11.23	0.24	2.1	11.2	21	15.17	0.31	2.0	15.3
<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	21	7.61	0.28	3.7	7.5	20	11.21	0.19	1.7	11.2
<u>Instrument</u>	Specimen IST-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	21	15.52	0.97	6.3	15.3					

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	41	2.81	0.14	5.0	2.8	41	4.66	0.17	3.7	4.7
<u>Instrument</u>	Specimen IST-13					Specimen IST-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	40	0.63	0.06	9.6	0.6	41	2.83	0.13	4.4	2.9
<u>Instrument</u>	Specimen IST-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	41	4.63	0.19	4.0	4.6					

Albumin (g/dL)**Specimen CH-11****Specimen CH-12**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Bromocresol Green Reagents	326	3.12	0.27	8.5	3.1	327	1.98	0.21	10.7	2.0
All Bromocresol Purple Reagents	164	2.63	0.10	3.6	2.6	160	1.64	0.10	6.0	1.6
All Method	527	2.97	0.32	10.8	3.0	528	1.88	0.24	12.9	1.9
Abaxis Piccolo										
Abaxis Piccolo	29	2.77	0.12	4.4	2.8	28	1.85	0.11	6.1	1.9
Alfa Wassermann - New										
Alfa Wassermann ACE/NexCT/Alera	52	3.01	0.08	2.8	3.0	52	1.99	0.07	3.3	2.0
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	34	3.05	0.12	3.9	3.1	34	2.05	0.07	3.7	2.1
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	7	3.30	0.17	5.2	3.3	7	2.11	0.12	5.7	2.1
Beckman										
Beckman Synchron	41	2.61	0.07	2.5	2.6	41	1.65	0.06	3.6	1.6
Beckman Synchron LX/PRO/DxC	13	2.62	0.06	2.1	2.6	13	1.64	0.05	3.1	1.6
All Chemistry Instruments	54	2.61	0.06	2.4	2.6	54	1.65	0.06	3.5	1.6
Clinical Data										
Clinical Data ATAC 1500,2000,6000	5	3.12	0.16	5.3	3.1	5	1.96	0.15	7.7	1.9
Clinical Data ATAC 8000	44	3.07	0.13	4.1	3.1	45	1.93	0.06	3.2	1.9
All Chemistry Instruments	52	3.08	0.13	4.4	3.1	52	1.93	0.06	3.3	1.9
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	75	2.60	0.08	2.9	2.6	76	1.58	0.06	3.8	1.6
DCL										
Roche Cobas Fara/Mira/Bio	12	3.16	0.26	8.3	3.2	12	2.03	0.12	5.7	2.0
All Chemistry Instruments	14	3.15	0.24	7.7	3.1	14	2.03	0.11	5.3	2.0
Olympus										
Olympus AU	9	3.11	0.11	3.4	3.1	9	1.97	0.07	3.6	2.0
Other, BCG Method										
Polymedco Poly-Chem System	6	3.13	0.10	3.3	3.1	6	2.08	0.10	4.7	2.1
All Chemistry Instruments	8	3.09	0.12	4.0	3.1	8	2.02	0.14	6.9	2.0
Pointe Scientific/Landmark										
All Chemistry Instruments	9	3.29	0.15	4.4	3.3	9	2.09	0.08	3.7	2.1
Roche COBAS										
Roche Cobas Fara/Mira/Bio	49	3.53	0.15	4.3	3.5	49	2.28	0.13	5.7	2.3
Roche Integra										
Roche Integra	25	3.16	0.09	2.8	3.1	26	1.99	0.10	5.1	2.0
ThermoDMA										
All Chemistry Instruments	6	3.27	0.30	9.2	3.3	6	1.93	0.22	11.2	2.0
ThermoTrace										
Roche Cobas Fara/Mira/Bio	9	3.26	0.13	4.1	3.2	9	2.02	0.07	3.3	2.0
All Chemistry Instruments	10	3.26	0.13	3.9	3.3	10	2.02	0.06	3.1	2.0
VITROS										
VITROS 250,350,500,700,750,950	54	2.81	0.10	3.7	2.8	54	1.66	0.06	3.6	1.7
All Chemistry Instruments	55	2.82	0.10	3.7	2.8	55	1.66	0.06	3.6	1.7

Specimen CH-13**Specimen CH-14**

All Bromocresol Green Reagents	325	3.05	0.25	8.1	3.0	323	2.31	0.22	9.6	2.3
All Bromocresol Purple Reagents	163	2.54	0.09	3.6	2.5	161	1.89	0.09	4.6	1.9
All Method	529	2.89	0.32	11.0	2.9	529	2.18	0.28	12.7	2.2
Abaxis Piccolo										
Abaxis Piccolo	30	2.64	0.15	5.7	2.6	30	2.04	0.15	7.5	2.1

Albumin (g/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13 (cont'd)</u>				<u>Specimen CH-14 (cont'd)</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Alfa Wassermann - New										
Alfa Wassermann ACE/NexCT/Alera	51	2.96	0.09	3.0	3.0	49	2.30	0.08	3.3	2.3
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	34	2.99	0.10	3.3	3.0	34	2.35	0.09	3.8	2.4
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	7	3.30	0.19	5.8	3.3	7	2.34	0.20	8.5	2.4
Beckman										
Beckman Synchron	40	2.54	0.07	2.6	2.5	39	1.89	0.04	2.1	1.9
Beckman Synchron LX/PRO/DxC	13	2.52	0.04	1.7	2.5	13	1.88	0.04	2.3	1.9
All Chemistry Instruments	53	2.53	0.06	2.4	2.5	52	1.89	0.04	2.2	1.9
Clinical Data										
Clinical Data ATAC 1500,2000,6000	5	3.08	0.18	5.8	3.0	5	2.30	0.17	7.5	2.2
Clinical Data ATAC 8000	45	2.98	0.10	3.5	3.0	45	2.27	0.09	3.8	2.3
All Chemistry Instruments	52	2.98	0.11	3.7	3.0	52	2.27	0.09	3.9	2.3
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	75	2.51	0.08	3.4	2.5	75	1.84	0.06	3.2	1.8
All Chemistry Instruments	75	2.51	0.08	3.4	2.5	75	1.84	0.06	3.2	1.8
DCL										
Roche Cobas Fara/Mira/Bio	12	3.14	0.22	7.0	3.2	12	2.39	0.16	6.8	2.4
All Chemistry Instruments	14	3.18	0.25	7.9	3.2	14	2.38	0.15	6.4	2.4
Olympus										
Olympus AU	9	3.04	0.11	3.7	3.1	9	2.31	0.14	5.9	2.4
Other, BCG Method										
Polymedco Poly-Chem System	6	3.05	0.10	3.4	3.1	6	2.38	0.13	5.6	2.4
All Chemistry Instruments	8	3.06	0.11	3.5	3.1	8	2.32	0.18	7.5	2.4
Pointe Scientific/Landmark										
All Chemistry Instruments	9	3.20	0.15	4.7	3.2	9	2.43	0.10	4.1	2.5
Roche COBAS										
Roche Cobas Fara/Mira/Bio	49	3.41	0.15	4.5	3.4	49	2.62	0.12	4.6	2.6
Roche Integra										
Roche Integra	25	3.07	0.09	2.9	3.1	24	2.35	0.08	3.3	2.3
ThermoDMA										
All Chemistry Instruments	6	3.10	0.33	10.6	3.1	6	2.33	0.19	8.0	2.3
ThermoTrace										
Roche Cobas Fara/Mira/Bio	9	3.13	0.10	3.2	3.1	9	2.29	0.08	3.4	2.3
All Chemistry Instruments	10	3.14	0.10	3.1	3.2	10	2.30	0.08	3.6	2.3
VITROS										
VITROS 250,350,500,700,750,950	54	2.77	0.10	3.7	2.8	54	1.98	0.07	3.5	2.0
All Chemistry Instruments	55	2.78	0.10	3.7	2.8	55	1.98	0.07	3.5	2.0

Specimen CH-15

All Bromocresol Green Reagents	314	4.14	0.26	6.4	4.1
All Bromocresol Purple Reagents	160	3.50	0.10	2.8	3.5
All Method	524	3.94	0.39	9.9	4.0
Abaxis Piccolo					
Abaxis Piccolo	30	3.50	0.19	5.4	3.5
Alfa Wassermann - New					
Alfa Wassermann ACE/NexCT/Alera	49	3.96	0.10	2.5	4.0
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	34	3.98	0.13	3.4	4.0
Bayer (Express / Plus)					
Chiron Diagnostics 550 Express	7	4.36	0.24	5.4	4.4

Albumin (g/dL)**Specimen CH-15 (cont'd)**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Beckman					
Beckman Synchron	40	3.48	0.08	2.3	3.5
Beckman Synchron LX/PRO/DxC	13	3.48	0.06	1.7	3.5
All Chemistry Instruments	53	3.48	0.08	2.2	3.5
Clinical Data					
Clinical Data ATAC 1500,2000,6000	5	4.28	0.19	4.5	4.2
Clinical Data ATAC 8000	45	4.06	0.12	3.0	4.0
All Chemistry Instruments	52	4.07	0.13	3.1	4.1
Dade Behring					
Dade Dimension/AR/ES/RxL/Xpand	73	3.50	0.10	2.9	3.5
DCL					
Roche Cobas Fara/Mira/Bio	12	4.25	0.25	6.0	4.3
All Chemistry Instruments	14	4.22	0.25	5.8	4.2
Olympus					
Olympus AU	9	4.09	0.14	3.3	4.1
Other, BCG Method					
Polymedco Poly-Chem System	6	3.95	0.08	2.1	4.0
All Chemistry Instruments	8	4.04	0.21	5.1	4.0
Pointe Scientific/Landmark					
All Chemistry Instruments	9	4.32	0.23	5.3	4.4
Roche COBAS					
Roche Cobas Fara/Mira/Bio	47	4.59	0.20	4.4	4.6
Roche Integra					
Roche Integra	25	4.15	0.10	2.5	4.1
ThermoDMA					
All Chemistry Instruments	6	4.43	0.42	9.5	4.3
ThermoTrace					
Roche Cobas Fara/Mira/Bio	9	4.22	0.16	3.7	4.2
All Chemistry Instruments	10	4.24	0.16	3.7	4.2
VITROS					
VITROS 250,350,500,700,750,950	54	3.98	0.14	3.5	4.0
All Chemistry Instruments	55	3.99	0.14	3.5	4.0

Bilirubin, Direct (mg/dL)**Specimen CH-11****Specimen CH-12**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	351	1.33	0.44	33.4	1.3	352	1.52	0.44	29.0	1.4
Abaxis Piccolo										
Abaxis Piccolo	5	1.28	0.24	18.7	1.4	5	1.38	0.23	16.5	1.4
Abbott Aeroset										
Abbott Aeroset	5	1.58	0.25	15.8	1.6	5	2.00	0.31	15.4	2.0
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	67	1.80	0.33	18.3	1.8	69	1.90	0.33	17.4	2.0
Beckman										
Beckman Synchron	27	1.14	0.12	10.7	1.2	26	1.32	0.08	6.2	1.3
Beckman Synchron LX/PRO/DxC	11	1.25	0.05	4.2	1.2	11	1.37	0.06	4.7	1.4
All Chemistry Instruments	38	1.17	0.12	9.9	1.2	37	1.34	0.08	5.9	1.3
Carolina Liquid Chemistries										
Beckman Synchron	7	0.89	0.15	16.5	0.9	7	1.19	0.16	13.3	1.2
All Chemistry Instruments	8	0.90	0.14	15.7	1.0	8	1.18	0.15	12.7	1.2
Clinical Data										
Clinical Data ATAC 8000	30	1.70	0.35	20.4	1.8	30	2.02	0.35	17.4	2.1
All Chemistry Instruments	35	1.73	0.37	21.4	1.8	35	2.03	0.36	17.7	2.0
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	59	0.87	0.11	13.0	0.9	59	1.11	0.13	11.4	1.1

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-11 (cont'd)</u>				<u>Specimen CH-12 (cont'd)</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
DCL										
Roche Cobas Fara/Mira/Bio	5	1.68	0.36	21.2	1.6	5	1.74	0.30	17.5	1.8
All Chemistry Instruments	7	1.64	0.33	20.1	1.6	7	1.67	0.30	17.9	1.7
Olympus										
Olympus AU	7	1.46	0.27	18.5	1.5	7	1.67	0.30	18.2	1.8
Pointe Scientific/Landmark										
All Chemistry Instruments	5	1.42	0.92	64.6	1.2	5	1.70	1.05	61.8	1.5
Roche COBAS										
Roche Cobas Fara/Mira/Bio	28	1.41	0.28	19.8	1.4	27	1.64	0.21	12.5	1.7
Roche Integra										
Roche Integra	21	1.20	0.27	22.0	1.2	21	1.41	0.26	18.1	1.4
VITROS										
VITROS 250,350,500,700,750,950	5	1.00	0.42	42.4	1.2	5	1.12	0.40	35.4	1.3
VITROS-BuBc and Bc										
VITROS 250,350,500,700,750,950	33	1.06	0.38	35.7	1.1	31	1.11	0.26	23.9	1.1
All Chemistry Instruments	34	1.05	0.38	35.6	1.1	32	1.10	0.26	23.9	1.1

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-11</u>				<u>Specimen CH-12</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	526	3.23	0.45	14.0	3.3	525	3.67	0.43	11.6	3.7
Abaxis Piccolo										
Abaxis Piccolo	29	2.79	0.18	6.5	2.8	28	3.25	0.18	5.5	3.3
Abbott Aeroset										
Abbott Aeroset	5	2.86	0.32	11.2	2.7	5	3.38	0.31	9.2	3.3
Abbott Architect										
Abbott Architect	6	3.15	0.30	9.6	3.2	6	3.48	0.37	10.7	3.5
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	84	3.62	0.36	9.8	3.6	84	4.08	0.34	8.2	4.1
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	5	3.02	0.30	10.0	3.2	5	3.34	0.39	11.7	3.4
Beckman										
Beckman Synchron	40	3.33	0.30	9.0	3.4	40	3.64	0.24	6.6	3.7
Beckman Synchron LX/PRo/DxC	13	3.52	0.16	4.5	3.5	13	3.80	0.18	4.8	3.8
All Chemistry Instruments	52	3.39	0.26	7.6	3.5	53	3.68	0.24	6.4	3.7
Carolina Liquid Chemistries										
Beckman Synchron	8	3.12	0.27	8.5	3.2	8	3.52	0.31	8.8	3.7
All Chemistry Instruments	9	3.16	0.27	8.4	3.2	9	3.57	0.32	8.9	3.7
Clinical Data										
Clinical Data ATAC 8000	44	3.36	0.42	12.6	3.4	44	3.68	0.40	10.9	3.8
All Chemistry Instruments	51	3.31	0.43	13.0	3.4	51	3.63	0.41	11.3	3.7
Dade Behring										
Dade Analyst	5	2.94	0.38	12.9	3.0	5	3.34	0.51	15.4	3.3
Dade Dimension/AR/ES/RxL/Xpand	74	3.21	0.30	9.4	3.2	73	3.67	0.28	7.5	3.7
All Chemistry Instruments	79	3.19	0.31	9.7	3.2	79	3.64	0.32	8.8	3.7
DCL										
Roche Cobas Fara/Mira/Bio	13	3.01	0.41	13.7	3.0	13	3.46	0.36	10.4	3.6
All Chemistry Instruments	16	3.02	0.38	12.4	3.0	16	3.54	0.45	12.6	3.7
Olympus										
Olympus AU	9	3.28	0.28	8.5	3.3	9	3.91	0.28	7.1	3.9
Pointe Scientific/Landmark										
All Chemistry Instruments	8	3.32	0.31	9.3	3.4	8	3.88	0.23	5.8	4.0
Polymedco										
Polymedco Poly-Chem System	7	3.47	0.41	11.7	3.4	7	3.86	0.50	13.0	3.9
Roche COBAS										
Roche Cobas Fara/Mira/Bio	49	3.33	0.45	13.6	3.3	47	3.79	0.39	10.2	3.8
Roche Integra										
Roche Integra	11	2.86	0.54	18.9	3.1	11	3.32	0.45	13.5	3.5

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13 (cont'd)</u>				<u>Specimen CH-14 (cont'd)</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
ThermoTrace										
All Chemistry Instruments	5	1.94	0.30	15.7	2.0	5	2.62	0.48	18.2	2.6
VITROS - TBIL										
VITROS 250,350,500,700,750,950	50	1.44	0.19	12.9	1.4	51	2.34	0.26	11.2	2.4
VITROS DT/DTII/DT60	5	1.36	0.28	20.5	1.5	5	2.48	0.33	13.2	2.4
All Chemistry Instruments	56	1.43	0.19	13.5	1.4	57	2.35	0.27	11.4	2.4
Specimen CH-15										
All Method	523	1.43	0.31	21.9	1.4					
Abaxis Piccolo										
Abaxis Piccolo	30	1.12	0.11	10.0	1.1					
Abbott Aerosep										
Abbott Aerosep	5	1.12	0.15	13.2	1.1					
Abbott Architect										
Abbott Architect	6	1.33	0.21	15.5	1.3					
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	83	1.68	0.22	12.8	1.6					
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	5	1.12	0.24	21.3	1.0					
Beckman										
Beckman Synchron	41	1.76	0.24	13.7	1.8					
Beckman Synchron LX/PRo/DxC	12	1.85	0.14	7.8	1.8					
All Chemistry Instruments	53	1.78	0.23	12.6	1.8					
Carolina Liquid Chemistries										
Beckman Synchron	6	1.48	0.13	9.0	1.6					
All Chemistry Instruments	7	1.50	0.13	8.6	1.6					
Clinical Data										
Clinical Data ATAC 8000	43	1.50	0.22	14.6	1.5					
All Chemistry Instruments	51	1.46	0.26	17.7	1.5					
Dade Behring										
Dade Analyst	5	1.08	0.26	24.0	1.0					
Dade Dimension/AR/ES/RxL/Xpand	73	1.32	0.16	12.0	1.3					
All Chemistry Instruments	78	1.31	0.18	13.4	1.3					
DCL										
Roche Cobas Fara/Mira/Bio	13	1.35	0.19	13.8	1.3					
All Chemistry Instruments	16	1.33	0.20	15.0	1.3					
Olympus										
Olympus AU	9	1.54	0.18	11.7	1.5					
Pointe Scientific/Landmark										
All Chemistry Instruments	8	1.51	0.30	20.1	1.6					
Polymedco										
Polymedco Poly-Chem System	7	1.49	0.24	16.2	1.4					
Roche COBAS										
Roche Cobas Fara/Mira/Bio	49	1.40	0.22	15.6	1.4					
Roche Integra										
Roche Integra	11	1.15	0.28	24.0	1.3					
Roche Integra-T. bili Special										
Roche Integra	17	0.89	0.07	8.4	0.9					
ThermoDMA										
Roche Cobas Fara/Mira/Bio	5	1.92	0.08	4.4	1.9					
All Chemistry Instruments	8	1.84	0.14	7.7	1.9					
ThermoTrace										
All Chemistry Instruments	5	1.88	0.33	17.4	2.0					
VITROS - TBIL										
VITROS 250,350,500,700,750,950	51	1.26	0.18	14.5	1.2					
VITROS DT/DTII/DT60	5	0.80	0.38	47.6	0.9					
All Chemistry Instruments	56	1.23	0.20	16.2	1.2					

Calcium (mg/dL)**Specimen CH-11****Specimen CH-12**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Arsenazo Methods	298	7.39	0.28	3.8	7.4	297	10.56	0.34	3.2	10.6
All CPC Methods	171	7.50	0.30	4.0	7.5	174	10.81	0.44	4.1	10.8
All Method	529	7.42	0.29	3.9	7.4	532	10.66	0.40	3.7	10.6
Abaxis Piccolo										
Abaxis Piccolo	30	7.66	0.31	4.0	7.7	29	10.99	0.39	3.6	11.0
Abbott Aeroset										
Abbott Aeroset	5	7.44	0.15	2.0	7.5	5	10.58	0.35	3.3	10.6
Abbott Architect										
Abbott Architect	6	7.40	0.09	1.2	7.4	6	10.60	0.18	1.7	10.6
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	82	7.35	0.24	3.3	7.4	82	10.47	0.29	2.7	10.5
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	6	7.05	0.23	3.2	7.1	6	10.38	0.31	2.9	10.4
Beckman										
Beckman Synchron	30	7.47	0.26	3.5	7.5	30	10.49	0.31	2.9	10.5
All Chemistry Instruments	33	7.46	0.25	3.4	7.5	33	10.49	0.30	2.8	10.5
Carolina Liquid Chemistries										
Beckman Synchron	8	7.59	0.29	3.8	7.6	8	10.50	0.43	4.1	10.6
All Chemistry Instruments	9	7.61	0.28	3.7	7.6	9	10.50	0.40	3.8	10.5
Clinical Data										
Clinical Data ATAC 8000	44	7.65	0.23	3.0	7.7	44	11.22	0.39	3.5	11.2
All Chemistry Instruments	50	7.62	0.25	3.3	7.7	51	11.14	0.44	4.0	11.1
Dade Behring										
Dade Analyst	5	6.92	0.65	9.4	7.0	5	10.44	0.69	6.6	10.6
Dade Dimension/AR/ES/RxL/Xpand	75	7.43	0.25	3.4	7.5	75	10.74	0.29	2.7	10.8
All Chemistry Instruments	78	7.42	0.26	3.4	7.5	79	10.73	0.30	2.8	10.8
DCL - Arsenazo										
Roche Cobas Fara/Mira/Bio	14	7.51	0.27	3.6	7.5	14	10.11	0.38	3.7	10.2
All Chemistry Instruments	16	7.48	0.27	3.6	7.5	16	10.09	0.35	3.5	10.1
ISE Undiluted										
Beckman Synchron	14	7.30	0.20	2.7	7.3	14	10.42	0.20	1.9	10.4
Beckman Synchron LX/PRo/DxC	10	7.39	0.07	1.0	7.4	10	10.52	0.12	1.2	10.5
All Chemistry Instruments	24	7.34	0.16	2.2	7.4	23	10.44	0.14	1.3	10.4
JAS Diagnostics, Inc.										
All Chemistry Instruments	5	7.68	0.75	9.8	7.6	5	10.94	0.87	8.0	10.9
Olympus										
Olympus AU	9	7.43	0.19	2.5	7.4	9	10.48	0.19	1.8	10.5
Polymedco										
Polymedco Poly-Chem System	7	7.23	0.11	1.5	7.2	7	10.57	0.15	1.4	10.6
Roche COBAS - Arsenazo										
Roche Cobas Fara/Mira/Bio	26	7.54	0.24	3.1	7.5	26	10.72	0.31	2.9	10.8
Roche COBAS										
Roche Cobas Fara/Mira/Bio	18	7.60	0.33	4.4	7.7	18	10.73	0.41	3.8	10.8
Roche Integra										
Roche Integra	26	7.40	0.22	2.9	7.4	27	11.00	0.30	2.7	11.1
ThermoDMA - Arsenazo										
All Chemistry Instruments	6	7.27	0.10	1.4	7.3	6	10.50	0.41	3.9	10.5
ThermoTrace - Arsenazo										
All Chemistry Instruments	6	7.60	0.91	12.0	7.4	6	10.25	0.41	4.0	10.4
VITROS										
VITROS 250,350,500,700,750,950	54	7.13	0.16	2.3	7.1	54	10.58	0.23	2.2	10.6
All Chemistry Instruments	58	7.13	0.16	2.3	7.1	59	10.58	0.23	2.2	10.6

Calcium (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Arsenazo Methods	298	10.36	0.30	2.9	10.4	296	11.50	0.35	3.0	11.5
All CPC Methods	173	10.46	0.36	3.4	10.5	171	11.71	0.43	3.7	11.7
All Method	530	10.39	0.31	3.0	10.4	526	11.58	0.39	3.3	11.6
Abaxis Piccolo										
Abaxis Piccolo	30	10.62	0.38	3.6	10.6	29	11.93	0.31	2.6	11.9
Abbott Aeroset										
Abbott Aeroset	5	10.40	0.37	3.6	10.5	5	11.50	0.47	4.1	11.6
Abbott Architect										
Abbott Architect	6	10.33	0.25	2.4	10.3	6	11.47	0.12	1.1	11.5
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	81	10.30	0.24	2.4	10.3	81	11.40	0.27	2.4	11.4
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	6	9.95	0.32	3.2	10.0	6	11.08	0.34	3.1	11.2
Beckman										
Beckman Synchron	30	10.34	0.28	2.7	10.4	30	11.43	0.34	3.0	11.5
All Chemistry Instruments	33	10.34	0.28	2.7	10.4	33	11.42	0.33	2.9	11.5
Carolina Liquid Chemistries										
Beckman Synchron	8	10.50	0.41	3.9	10.7	6	11.53	0.15	1.3	11.5
All Chemistry Instruments	9	10.52	0.39	3.7	10.7	7	11.56	0.15	1.3	11.5
Clinical Data										
Clinical Data ATAC 8000	43	10.78	0.26	2.4	10.8	43	12.16	0.39	3.2	12.2
All Chemistry Instruments	51	10.70	0.35	3.3	10.7	51	12.05	0.47	3.9	12.1
Dade Behring										
Dade Analyst	5	10.12	0.51	5.1	10.2	5	11.64	0.61	5.2	11.4
Dade Dimension/AR/ES/RxL/Xpand	75	10.38	0.28	2.7	10.4	73	11.64	0.29	2.5	11.7
All Chemistry Instruments	80	10.36	0.30	2.9	10.4	78	11.64	0.31	2.7	11.7
DCL - Arsenazo										
Roche Cobas Fara/Mira/Bio	14	10.07	0.33	3.3	10.1	14	10.91	0.65	5.9	11.1
All Chemistry Instruments	16	10.06	0.31	3.1	10.1	15	11.03	0.37	3.4	11.0
ISE Undiluted										
Beckman Synchron	14	10.11	0.17	1.7	10.1	14	11.27	0.21	1.9	11.2
Beckman Synchron LX/PRo/DxC	10	10.24	0.11	1.0	10.2	10	11.38	0.10	0.9	11.4
All Chemistry Instruments	24	10.16	0.16	1.6	10.2	24	11.32	0.18	1.6	11.3
JAS Diagnostics, Inc.										
All Chemistry Instruments	5	10.58	0.81	7.7	10.4	5	12.08	0.83	6.9	11.9
Olympus										
Olympus AU	9	10.28	0.19	1.8	10.3	9	11.30	0.17	1.5	11.3
Polymedco										
Polymedco Poly-Chem System	7	10.21	0.13	1.3	10.2	7	11.44	0.19	1.7	11.4
Roche COBAS - Arsenazo										
Roche Cobas Fara/Mira/Bio	26	10.36	0.32	3.1	10.4	26	11.47	0.26	2.3	11.4
Roche COBAS										
Roche Cobas Fara/Mira/Bio	18	10.47	0.31	3.0	10.4	18	11.61	0.35	3.0	11.7
Roche Integra										
Roche Integra	27	10.48	0.30	2.9	10.5	27	11.89	0.35	2.9	11.9
ThermoDMA - Arsenazo										
All Chemistry Instruments	6	10.20	0.25	2.5	10.3	6	11.60	0.37	3.2	11.5
ThermoTrace - Arsenazo										
All Chemistry Instruments	6	10.22	0.37	3.6	10.4	6	11.17	0.46	4.1	11.4
VITROS										
VITROS 250,350,500,700,750,950	53	10.44	0.22	2.1	10.4	54	11.63	0.24	2.0	11.6
All Chemistry Instruments	58	10.43	0.22	2.1	10.4	59	11.61	0.24	2.1	11.6

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Arsenazo Methods	299	7.29	0.29	4.0	7.3
All CPC Methods	168	7.16	0.28	3.9	7.2
All Method	530	7.22	0.30	4.2	7.2
Abaxis Piccolo					
Abaxis Piccolo	30	7.43	0.24	3.3	7.4
Abbott Aeroset					
Abbott Aeroset	5	7.28	0.25	3.4	7.3
Abbott Architect					
Abbott Architect	6	7.23	0.10	1.4	7.3
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	81	7.36	0.22	3.0	7.3
Bayer (Express / Plus)					
Chiron Diagnostics 550 Express	6	6.68	0.20	3.1	6.8
Beckman					
Beckman Synchron	30	7.39	0.30	4.0	7.5
All Chemistry Instruments	33	7.38	0.29	4.0	7.4
Carolina Liquid Chemistries					
Beckman Synchron	8	7.00	2.23	31.9	7.9
All Chemistry Instruments	9	7.08	2.10	29.7	7.7
Clinical Data					
Clinical Data ATAC 8000	43	7.20	0.23	3.1	7.2
All Chemistry Instruments	49	7.21	0.27	3.7	7.2
Dade Behring					
Dade Analyst	5	6.98	0.84	12.0	7.2
Dade Dimension/AR/ES/RxL/Xpand	74	7.10	0.21	2.9	7.1
All Chemistry Instruments	77	7.10	0.21	2.9	7.1
DCL - Arsenazo					
Roche Cobas Fara/Mira/Bio	14	7.42	0.27	3.7	7.5
All Chemistry Instruments	16	7.41	0.26	3.4	7.5
ISE Undiluted					
Beckman Synchron	14	6.98	0.14	2.0	7.0
Beckman Synchron LX/PRo/DxC	10	7.15	0.07	1.0	7.2
All Chemistry Instruments	24	7.05	0.14	2.0	7.1
JAS Diagnostics, Inc.					
All Chemistry Instruments	5	7.28	0.68	9.4	7.2
Olympus					
Olympus AU	9	7.31	0.18	2.4	7.4
Polymedco					
Polymedco Poly-Chem System	7	6.87	0.10	1.4	6.9
Roche COBAS - Arsenazo					
Roche Cobas Fara/Mira/Bio	26	7.32	0.27	3.6	7.4
Roche COBAS					
Roche Cobas Fara/Mira/Bio	17	7.37	0.24	3.2	7.4
Roche Integra					
Roche Integra	27	6.92	0.24	3.5	6.9
ThermoDMA - Arsenazo					
All Chemistry Instruments	6	7.25	0.21	2.9	7.3
ThermoTrace - Arsenazo					
All Chemistry Instruments	6	7.23	0.29	4.1	7.3
VITROS					
VITROS 250,350,500,700,750,950	53	7.01	0.14	2.0	7.0
All Chemistry Instruments	58	7.01	0.15	2.1	7.0

Creatinine (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	573	3.82	0.33	8.7	3.8	569	5.71	0.35	6.2	5.7
Abaxis Piccolo										
Abaxis Piccolo	30	4.02	0.14	3.6	4.0	29	5.89	0.20	3.3	5.9
Abbott Aeroset										
Abbott Aeroset	5	3.76	0.05	1.5	3.8	5	5.48	0.04	0.8	5.5
Abbott Architect										
Abbott Architect	6	3.68	0.15	4.0	3.7	6	5.40	0.20	3.7	5.5
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	82	3.45	0.16	4.6	3.4	84	5.31	0.25	4.7	5.3
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	9	3.67	0.23	6.2	3.6	9	5.59	0.40	7.1	5.5
Beckman										
Beckman Synchron	43	3.90	0.09	2.4	3.9	44	5.88	0.17	2.9	5.9
Beckman Synchron LX/PRo/DxC	13	3.87	0.18	4.6	3.9	13	5.86	0.27	4.5	5.9
All Chemistry Instruments	58	3.89	0.13	3.3	3.9	58	5.88	0.20	3.4	5.9
BMC Reflotron										
BMC Reflotron/Plus	5	4.30	0.28	6.6	4.5	5	6.22	0.37	6.0	6.1
Carolina Liquid Chemistries										
Beckman Synchron	8	3.78	0.28	7.5	3.9	8	5.70	0.35	6.1	5.8
All Chemistry Instruments	9	3.78	0.26	7.0	3.8	9	5.70	0.33	5.8	5.8
Clinical Data										
Clinical Data ATAC 1500,2000,6000	5	3.64	0.19	5.4	3.7	5	5.56	0.48	8.7	5.8
Clinical Data ATAC 8000	46	3.87	0.27	6.9	3.9	46	5.80	0.36	6.2	5.8
All Chemistry Instruments	54	3.84	0.26	6.8	3.9	54	5.78	0.36	6.3	5.8
CREA (blnk corrected -NH3)										
VITROS 250,350,500,700,750,950	12	4.34	0.08	1.8	4.3	12	6.13	0.12	2.0	6.2
CRSC (single slide)										
VITROS 250,350,500,700,750,950	31	4.38	0.11	2.5	4.4	31	6.15	0.13	2.2	6.2
VITROS DT/DTII/DT60	14	4.60	0.15	3.3	4.6	14	6.28	0.15	2.4	6.3
All Chemistry Instruments	46	4.45	0.16	3.6	4.4	45	6.18	0.13	2.1	6.2
Dade Behring										
Dade Analyst	5	3.50	0.22	6.4	3.5	5	5.40	0.28	5.2	5.6
Dade Dimension/AR/ES/RxL/Xpand	72	3.87	0.12	3.1	3.9	71	5.78	0.15	2.6	5.8
All Chemistry Instruments	76	3.85	0.14	3.6	3.9	77	5.75	0.19	3.3	5.8
DCL										
Roche Cobas Fara/Mira/Bio	14	3.82	0.22	5.7	3.9	14	5.74	0.35	6.0	5.7
All Chemistry Instruments	16	3.77	0.25	6.7	3.8	17	5.66	0.37	6.5	5.6
Olympus										
Olympus AU	8	3.81	0.06	1.7	3.8	8	5.75	0.08	1.3	5.7
Pointe Scientific/Landmark										
BMH 704, 705, 717	5	3.88	0.24	6.2	4.0	5	5.70	0.45	7.9	5.9
All Chemistry Instruments	13	3.78	0.24	6.5	3.8	13	5.72	0.40	7.0	5.8
Polymedco										
Polymedco Poly-Chem System	7	3.71	0.26	7.0	3.7	7	5.36	0.27	5.0	5.3
Roche COBAS										
Roche Cobas Fara/Mira/Bio	52	3.66	0.18	5.0	3.7	52	5.60	0.26	4.6	5.7
Roche Integra										
Roche Integra	27	3.70	0.11	3.0	3.7	27	5.65	0.15	2.6	5.6
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	9	3.63	0.13	3.6	3.6	9	5.58	0.25	4.6	5.5
All Chemistry Instruments	11	3.67	0.15	4.1	3.6	11	5.60	0.23	4.1	5.6
ThermoDMA										
All Chemistry Instruments	7	3.60	0.26	7.2	3.6	7	5.44	0.38	7.0	5.5
VITROS										
VITROS 250,350,500,700,750,950	12	4.38	0.09	2.1	4.4	12	6.24	0.14	2.2	6.2
All Chemistry Instruments	13	4.37	0.10	2.4	4.4	13	6.22	0.15	2.4	6.2

Creatinine (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	572	3.06	0.22	7.3	3.1	568	4.56	0.28	6.1	4.6
Abaxis Piccolo										
Abaxis Piccolo	30	3.14	0.12	3.7	3.1	30	4.75	0.14	3.0	4.8
Abbott Aeroset										
Abbott Aeroset	5	3.02	0.04	1.5	3.0	5	4.44	0.05	1.2	4.4
Abbott Architect										
Abbott Architect	6	2.97	0.15	5.1	3.0	6	4.32	0.16	3.7	4.4
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	83	2.85	0.14	5.1	2.9	83	4.25	0.20	4.7	4.3
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	9	2.98	0.19	6.5	3.0	9	4.42	0.37	8.3	4.3
Beckman										
Beckman Synchron	44	3.16	0.08	2.6	3.2	44	4.66	0.11	2.3	4.7
Beckman Synchron LX/PRo/DxC	13	3.17	0.10	3.3	3.2	13	4.68	0.19	4.1	4.7
All Chemistry Instruments	57	3.17	0.08	2.5	3.2	57	4.66	0.13	2.8	4.7
BMC Reflotron										
BMC Reflotron/Plus	5	3.34	0.11	3.4	3.3	5	5.00	0.47	9.4	4.8
Carolina Liquid Chemistries										
Beckman Synchron	8	3.08	0.17	5.4	3.1	8	4.49	0.24	5.4	4.6
All Chemistry Instruments	9	3.08	0.16	5.1	3.1	9	4.51	0.24	5.3	4.6
Clinical Data										
Clinical Data ATAC 1500,2000,6000	5	3.04	0.25	8.3	3.1	5	4.56	0.32	7.0	4.7
Clinical Data ATAC 8000	46	3.07	0.25	8.0	3.1	46	4.62	0.30	6.5	4.6
All Chemistry Instruments	54	3.07	0.24	7.8	3.1	54	4.61	0.29	6.3	4.6
CREA (blk corrected -NH3)										
VITROS 250,350,500,700,750,950	12	3.38	0.08	2.2	3.4	12	4.83	0.08	1.6	4.9
All Chemistry Instruments	12	3.38	0.08	2.2	3.4	12	4.83	0.08	1.6	4.9
CRSC (single slide)										
VITROS 250,350,500,700,750,950	31	3.35	0.09	2.7	3.4	31	4.86	0.10	2.2	4.8
VITROS DT/DTII/DT60	14	3.58	0.13	3.7	3.5	14	5.05	0.12	2.4	5.0
All Chemistry Instruments	46	3.42	0.15	4.3	3.4	46	4.92	0.14	2.8	4.9
Dade Behring										
Dade Analyst	5	2.68	0.13	4.9	2.7	5	4.08	0.41	10.0	4.1
Dade Dimension/AR/ES/RxL/Xpand	74	3.06	0.11	3.7	3.1	73	4.61	0.14	3.0	4.6
All Chemistry Instruments	77	3.05	0.13	4.1	3.1	75	4.61	0.14	3.1	4.6
DCL										
Roche Cobas Fara/Mira/Bio	14	3.07	0.22	7.3	3.1	14	4.56	0.31	6.9	4.5
All Chemistry Instruments	17	3.05	0.22	7.1	3.0	17	4.49	0.34	7.6	4.5
Olympus										
Olympus AU	8	3.01	0.04	1.2	3.0	8	4.55	0.05	1.2	4.6
Pointe Scientific/Landmark										
BMH 704, 705, 717	5	3.06	0.19	6.4	3.0	5	4.54	0.34	7.6	4.7
All Chemistry Instruments	13	3.05	0.26	8.4	3.0	13	4.56	0.31	6.7	4.6
Polymedco										
Polymedco Poly-Chem System	7	3.04	0.28	9.1	3.0	7	4.39	0.29	6.5	4.3
Roche COBAS										
Roche Cobas Fara/Mira/Bio	52	2.97	0.17	5.9	3.0	52	4.44	0.21	4.7	4.5
Roche Integra										
Roche Integra	27	2.94	0.08	2.6	2.9	27	4.50	0.11	2.5	4.5
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	9	2.94	0.13	4.5	2.9	9	4.43	0.18	4.1	4.4
All Chemistry Instruments	11	2.97	0.14	4.8	2.9	11	4.47	0.18	4.1	4.4
ThermoDMA										
All Chemistry Instruments	7	2.97	0.24	7.9	2.9	7	4.44	0.29	6.6	4.4
VITROS										
VITROS 250,350,500,700,750,950	12	3.40	0.06	1.8	3.4	12	4.95	0.14	2.9	4.9
All Chemistry Instruments	13	3.42	0.08	2.3	3.4	13	4.95	0.14	2.8	4.9

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>
All Method	569	1.20	0.16	13.2	1.2
Abaxis Piccolo					
Abaxis Piccolo	30	1.26	0.13	10.1	1.3
Abbott Aeroset					
Abbott Aeroset	5	1.30	0	0	1.3
Abbott Architect					
Abbott Architect	6	1.27	0.05	4.1	1.3
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	82	1.11	0.09	8.1	1.1
Bayer (Express / Plus)					
Chiron Diagnostics 550 Express	9	1.17	0.07	6.1	1.2
Beckman					
Beckman Synchron	43	1.25	0.06	4.4	1.3
Beckman Synchron LX/Pro/DxC	13	1.22	0.07	5.9	1.2
All Chemistry Instruments	57	1.25	0.06	4.8	1.2
BMC Reflotron					
BMC Reflotron/Plus	5	1.18	0.11	9.3	1.2
Carolina Liquid Chemistries					
Beckman Synchron	8	1.22	0.13	10.5	1.3
All Chemistry Instruments	9	1.22	0.12	9.8	1.2
Clinical Data					
Clinical Data ATAC 1500,2000,6000	5	1.12	0.08	7.5	1.1
Clinical Data ATAC 8000	46	1.17	0.15	12.7	1.2
All Chemistry Instruments	54	1.16	0.14	12.0	1.2
CREA (blk corrected -NH3)					
VITROS 250,350,500,700,750,950	12	1.48	0.06	3.9	1.5
CRSC (single slide)					
VITROS 250,350,500,700,750,950	31	1.46	0.07	4.6	1.5
VITROS DT/DTII/DT60	14	1.54	0.06	4.2	1.6
All Chemistry Instruments	46	1.48	0.08	5.1	1.5
Dade Behring					
Dade Analyst	5	1.10	0.07	6.4	1.1
Dade Dimension/AR/ES/RxL/Xpand	73	1.13	0.08	7.2	1.1
All Chemistry Instruments	78	1.13	0.08	7.2	1.1
DCL					
Roche Cobas Fara/Mira/Bio	14	1.20	0.15	12.2	1.2
All Chemistry Instruments	17	1.19	0.14	12.0	1.2
Olympus					
Olympus AU	8	1.11	0.04	3.2	1.1
Pointe Scientific/Landmark					
BMH 704, 705, 717	5	1.16	0.11	9.8	1.2
All Chemistry Instruments	13	1.18	0.12	10.5	1.2
Polymedco					
Polymedco Poly-Chem System	7	1.43	0.11	7.8	1.4
Roche COBAS					
Roche Cobas Fara/Mira/Bio	53	1.05	0.14	12.9	1.1
Roche Integra					
Roche Integra	24	1.10	0	0	1.1
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	9	1.11	0.06	5.4	1.1
All Chemistry Instruments	11	1.15	0.10	9.0	1.1
ThermoDMA					
All Chemistry Instruments	7	1.17	0.10	8.1	1.2
VITROS					
VITROS 250,350,500,700,750,950	12	1.47	0.05	3.4	1.5
All Chemistry Instruments	13	1.47	0.05	3.3	1.5

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	603	65.6	3.3	5.0	66	610	130.5	5.2	4.0	130
Abaxis Piccolo										
Abaxis Piccolo	30	68.4	2.9	4.3	68	29	133.1	3.9	2.9	133
Abbott Aerosep										
Abbott Aerosep	5	66.0	1.7	2.6	65	5	134.4	2.8	2.1	133
Abbott Architect										
Abbott Architect	6	64.8	1.7	2.7	65	6	131.5	3.4	2.6	132
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	81	66.8	2.1	3.2	67	81	131.6	3.5	2.7	132
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	8	64.1	3.0	4.7	64	7	129.1	6.9	5.3	126
Beckman										
Beckman Synchron	43	63.8	1.9	3.0	64	43	129.8	4.3	3.3	130
Beckman Synchron LX/PRO/DxC	13	64.8	1.4	2.2	65	13	132.0	2.5	1.9	132
All Chemistry Instruments	56	64.0	1.8	2.9	64	56	130.3	4.0	3.1	131
BMC Reflotron										
BMC Reflotron/Plus	6	66.0	2.3	3.5	66	4	-	-	-	135
Carolina Liquid Chemistries										
Beckman Synchron	8	64.4	2.8	4.3	64	8	130.9	4.6	3.5	133
All Chemistry Instruments	9	64.3	2.6	4.0	64	9	130.7	4.3	3.3	129
Cholestech LDX										
Cholestech LDX - waived	10	54.2	3.0	5.6	55	10	116.9	4.7	4.1	116
Clinical Data										
Clinical Data ATAC 1500,2000,6000	6	67.2	1.0	1.5	67	6	130.5	2.7	2.1	130
Clinical Data ATAC 8000	47	67.6	2.5	3.6	67	47	132.3	3.4	2.6	133
All Chemistry Instruments	56	67.6	2.4	3.5	67	56	132.3	3.6	2.7	132
Dade Behring										
Dade Analyst	6	64.5	3.3	5.1	65	6	130.7	4.0	3.0	130
Dade Dimension/AR/ES/RxL/Xpand	74	66.3	2.4	3.7	66	74	129.9	3.6	2.8	130
All Chemistry Instruments	80	66.2	2.5	3.8	66	80	130.0	3.6	2.8	130
DCL										
Roche Cobas Fara/Mira/Bio	12	64.2	2.9	4.6	66	12	134.4	5.8	4.3	136
All Chemistry Instruments	16	63.8	3.8	5.9	65	16	133.5	5.6	4.2	135
JAS Diagnostics, Inc.										
All Chemistry Instruments	5	75.2	7.6	10.1	76	5	134.0	8.8	6.6	132
Olympus										
Olympus AU	9	63.4	2.8	4.5	65	9	129.9	5.0	3.9	131
Pointe Scientific/Landmark										
All Chemistry Instruments	11	70.3	5.3	7.6	70	11	137.2	5.1	3.7	138
Polymedco										
Polymedco Poly-Chem System	7	65.9	1.3	2.0	66	7	132.6	4.1	3.1	132
Roche COBAS										
Roche Cobas Fara/Mira/Bio	55	61.9	2.8	4.5	62	55	127.7	4.8	3.8	128
Roche Integra										
Roche Integra	26	62.7	1.9	3.1	63	26	128.5	3.6	2.8	129
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	9	62.6	3.7	5.9	62	9	132.0	5.1	3.8	132
All Chemistry Instruments	10	63.2	4.0	6.4	62	10	132.1	4.8	3.6	132
VITROS										
VITROS 250,350,500,700,750,950	56	64.8	2.2	3.4	65	56	124.4	2.6	2.1	124
VITROS DT/DTII/DT60	48	68.1	3.4	5.0	69	49	134.7	6.4	4.8	136
All Chemistry Instruments	105	66.3	3.3	4.9	66	106	129.1	7.0	5.4	127

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	611	154.9	6.0	3.9	155	611	168.1	6.3	3.8	168
Abaxis Piccolo										
Abaxis Piccolo	30	154.2	3.3	2.2	155	29	168.2	3.3	2.0	168
Abbott Aeroset										
Abbott Aeroset	5	158.4	3.2	2.0	157	5	173.2	3.4	2.0	174
Abbott Architect										
Abbott Architect	6	154.2	4.3	2.8	155	6	167.7	3.8	2.3	167
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	78	157.0	3.4	2.2	157	78	170.3	3.7	2.2	170
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	8	150.2	6.1	4.1	152	8	161.6	10.2	6.3	163
Beckman										
Beckman Synchron	43	154.2	4.4	2.9	154	43	167.8	4.5	2.7	168
Beckman Synchron LX/PRO/DxC	13	154.8	2.5	1.6	155	13	169.2	2.7	1.6	169
All Chemistry Instruments	55	154.1	3.7	2.4	155	56	168.1	4.1	2.5	169
BMC Reflotron										
BMC Reflotron/Plus	6	148.7	3.6	2.4	150	6	172.8	5.3	3.0	174
Carolina Liquid Chemistries										
Beckman Synchron	8	156.0	5.6	3.6	154	8	171.1	7.0	4.1	174
All Chemistry Instruments	9	155.9	5.3	3.4	154	9	170.7	6.7	3.9	168
Cholestech LDX										
Cholestech LDX - waived	10	144.2	8.2	5.7	145	10	152.3	6.3	4.1	153
Clinical Data										
Clinical Data ATAC 1500,2000,6000	6	155.3	4.5	2.9	154	6	169.0	5.3	3.1	169
Clinical Data ATAC 8000	47	158.7	4.0	2.5	159	47	171.4	5.1	3.0	172
All Chemistry Instruments	56	158.5	4.3	2.7	159	56	171.1	5.0	2.9	172
Dade Behring										
Dade Analyst	6	156.3	4.7	3.0	156	6	169.7	4.9	2.9	169
Dade Dimension/AR/ES/RxL/Xpand	73	155.2	3.7	2.4	155	73	167.7	3.9	2.4	168
All Chemistry Instruments	79	155.2	3.7	2.4	155	79	167.9	4.0	2.4	168
DCL										
Roche Cobas Fara/Mira/Bio	12	158.0	6.5	4.1	161	12	173.3	7.7	4.4	175
All Chemistry Instruments	15	157.6	6.1	3.9	160	16	172.8	7.7	4.5	175
JAS Diagnostics, Inc.										
All Chemistry Instruments	5	161.6	12.2	7.6	162	5	174.8	11.9	6.8	172
Olympus										
Olympus AU	9	152.3	6.1	4.0	155	9	167.1	6.6	3.9	168
Pointe Scientific/Landmark										
All Chemistry Instruments	11	162.8	5.6	3.4	163	11	175.0	6.3	3.6	173
Polymedco										
Polymedco Poly-Chem System	7	155.6	2.5	1.6	156	7	168.7	4.3	2.6	168
Roche COBAS										
Roche Cobas Fara/Mira/Bio	55	149.4	4.9	3.3	149	55	163.5	6.5	4.0	163
Roche Integra										
Roche Integra	26	152.3	4.3	2.9	153	26	167.0	4.8	2.9	168
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	9	152.1	5.9	3.9	151	9	165.3	5.4	3.3	164
All Chemistry Instruments	10	152.6	5.7	3.8	152	10	165.4	5.1	3.1	166
VITROS										
VITROS 250,350,500,700,750,950	56	150.4	3.0	2.0	150	56	161.9	2.9	1.8	162
VITROS DT/DTII/DT60	50	163.0	7.2	4.4	164	50	173.4	8.1	4.6	175
All Chemistry Instruments	107	156.3	8.3	5.3	153	107	167.2	8.3	4.9	165

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>
All Method	615	90.9	4.9	5.4	91
Abaxis Piccolo					
Abaxis Piccolo	30	90.8	2.7	2.9	91
Abbott Aeroset					
Abbott Aeroset	5	89.6	0.9	1.0	89
Abbott Architect					
Abbott Architect	6	88.2	2.5	2.8	88
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	78	92.9	2.4	2.6	93
Bayer (Express / Plus)					
Chiron Diagnostics 550 Express	8	89.5	4.7	5.2	92
Beckman					
Beckman Synchron	43	89.3	1.8	2.1	89
Beckman Synchron LX/Pro/DxC	13	89.4	1.7	1.9	89
All Chemistry Instruments	56	89.3	1.8	2.0	89
BMC Reflotron					
BMC Reflotron/Plus	6	88.3	3.7	4.2	89
Carolina Liquid Chemistries					
Beckman Synchron	8	91.0	2.3	2.6	90
All Chemistry Instruments	9	90.8	2.3	2.5	90
Cholestech LDX					
Cholestech LDX - waived	10	82.9	2.9	3.5	83
Clinical Data					
Clinical Data ATAC 1500,2000,6000	6	93.3	2.9	3.2	92
Clinical Data ATAC 8000	47	94.4	2.8	3.0	94
All Chemistry Instruments	56	94.3	2.8	3.0	94
Dade Behring					
Dade Analyst	6	90.5	3.1	3.4	91
Dade Dimension/AR/ES/RxL/Xpand	74	91.9	2.5	2.7	92
All Chemistry Instruments	80	91.8	2.5	2.7	92
DCL					
Roche Cobas Fara/Mira/Bio	12	88.2	4.0	4.5	90
All Chemistry Instruments	16	89.2	4.4	4.9	90
JAS Diagnostics, Inc.					
All Chemistry Instruments	5	98.8	5.1	5.1	100
Olympus					
Olympus AU	9	86.6	3.5	4.0	87
Pointe Scientific/Landmark					
All Chemistry Instruments	11	96.6	5.5	5.7	97
Polymedco					
Polymedco Poly-Chem System	7	89.6	2.5	2.8	90
Roche COBAS					
Roche Cobas Fara/Mira/Bio	55	84.1	3.2	3.8	84
Roche Integra					
Roche Integra	26	85.9	2.5	2.9	86
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	9	87.1	3.8	4.4	86
All Chemistry Instruments	10	88.0	4.6	5.2	87
VITROS					
VITROS 250,350,500,700,750,950	56	90.5	2.3	2.5	91
VITROS DT/DTII/DT60	48	98.3	4.7	4.8	100
All Chemistry Instruments	105	94.0	5.3	5.6	93

Iron (mcg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	152	309.9	20.5	6.6	312
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	15	295.9	6.7	2.3	295
Beckman					
Beckman Synchron	14	312.3	8.5	2.7	313
Beckman Synchron LX/PRo/DxC	9	319.0	6.3	2.0	319
All Chemistry Instruments	23	314.9	8.3	2.6	315
Carolina Liquid Chemistries					
Beckman Synchron	5	304.4	7.2	2.4	304
All Chemistry Instruments	6	306.3	8.0	2.6	306
Clinical Data					
Clinical Data ATAC 8000	6	253.0	14.0	5.5	258
All Chemistry Instruments	8	263.4	22.6	8.6	265
Dade Behring					
Dade Dimension/AR/ES/RxL/Xpand	32	315.2	3.9	1.3	316
DCL					
Roche Cobas Fara/Mira/Bio	5	283.2	8.4	3.0	286
All Chemistry Instruments	6	283.3	7.6	2.7	286
Raichem					
Roche Cobas Fara/Mira/Bio	5	293.4	4.1	1.4	292
Roche Integra					
Roche Integra	13	316.7	5.5	1.8	317
VITROS					
VITROS 250,350,500,700,750,950	17	342.3	16.3	4.8	343

Magnesium (mg/dL)**Specimen CH-11****Specimen CH-12**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	192	4.16	0.38	9.2	4.2	196	4.66	0.47	10.0	4.8
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	23	3.74	0.23	6.1	3.8	23	4.19	0.27	6.3	4.2
Beckman										
Beckman Synchron	19	4.42	0.31	6.9	4.4	17	4.88	0.15	3.1	4.9
Beckman Synchron LX/PRo/DxC	8	4.38	0.12	2.7	4.4	8	4.88	0.10	2.1	4.9
All Chemistry Instruments	25	4.40	0.12	2.7	4.4	25	4.88	0.14	2.8	4.9
Clinical Data										
Clinical Data ATAC 8000	17	3.64	0.65	17.8	3.8	17	4.22	0.49	11.5	4.2
All Chemistry Instruments	18	3.63	0.63	17.3	3.8	18	4.21	0.47	11.3	4.2
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	32	4.30	0.11	2.5	4.3	32	4.88	0.15	3.1	4.9
DCL										
Roche Cobas Fara/Mira/Bio	6	3.80	0.56	14.8	3.8	6	4.27	0.54	12.6	4.3
All Chemistry Instruments	9	3.88	0.47	12.0	3.9	9	4.37	0.46	10.4	4.5
Olympus										
Olympus AU	8	4.09	0.34	8.3	4.0	8	4.69	0.47	10.0	4.6
Pointe Scientific/Landmark										
All Chemistry Instruments	5	4.24	0.46	10.8	4.5	5	4.54	0.59	12.9	4.7
Roche COBAS										
Roche Cobas Fara/Mira/Bio	11	3.46	0.31	9.1	3.6	11	4.05	0.40	10.0	4.2
Roche Integra										
Roche Integra	12	4.21	0.07	1.6	4.2	12	4.75	0.07	1.4	4.8
VITROS										
VITROS 250,350,500,700,750,950	22	4.49	0.11	2.5	4.5	22	5.19	0.14	2.7	5.2
All Chemistry Instruments	24	4.50	0.12	2.6	4.5	24	5.20	0.13	2.6	5.2

Magnesium (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	194	2.64	0.24	9.3	2.7	194	3.50	0.31	9.0	3.6
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	23	2.37	0.15	6.3	2.4	23	3.17	0.20	6.3	3.2
Beckman										
Beckman Synchron	17	2.80	0.11	3.8	2.8	18	3.69	0.22	6.1	3.7
Beckman Synchron LX/PRo/DxC	8	2.78	0.05	1.7	2.8	8	3.68	0.07	1.9	3.7
All Chemistry Instruments	24	2.80	0.07	2.5	2.8	24	3.68	0.11	3.0	3.7
Clinical Data										
Clinical Data ATAC 8000	16	2.48	0.26	10.6	2.5	17	3.27	0.29	8.9	3.2
All Chemistry Instruments	17	2.48	0.26	10.3	2.5	18	3.26	0.29	8.9	3.2
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	34	2.66	0.11	4.2	2.7	33	3.59	0.11	3.2	3.6
DCL										
Roche Cobas Fara/Mira/Bio	6	2.48	0.37	14.7	2.5	6	3.32	0.44	13.1	3.3
All Chemistry Instruments	9	2.57	0.32	12.3	2.7	9	3.33	0.35	10.6	3.3
Olympus										
Olympus AU	8	2.61	0.26	9.9	2.6	8	3.42	0.33	9.6	3.4
Pointe Scientific/Landmark										
All Chemistry Instruments	5	2.70	0.28	10.5	2.8	5	3.46	0.41	11.8	3.6
Roche COBAS										
Roche Cobas Fara/Mira/Bio	11	2.31	0.21	9.2	2.4	11	2.99	0.39	13.2	3.1
Roche Integra										
Roche Integra	13	2.75	0.16	5.9	2.8	12	3.60	0.10	2.6	3.6
VITROS										
VITROS 250,350,500,700,750,950	22	2.89	0.07	2.4	2.9	22	3.84	0.07	1.9	3.8
All Chemistry Instruments	24	2.90	0.08	2.8	2.9	24	3.85	0.08	2.0	3.9

Specimen CH-15

All Method	194	2.10	0.21	9.8	2.1
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	23	1.92	0.12	6.2	1.9
Beckman					
Beckman Synchron	18	2.28	0.12	5.3	2.3
Beckman Synchron LX/PRo/DxC	8	2.28	0.07	3.1	2.3
All Chemistry Instruments	24	2.28	0.07	2.9	2.3
Clinical Data					
Clinical Data ATAC 8000	17	1.97	0.21	10.9	2.0
All Chemistry Instruments	18	1.97	0.21	10.6	2.0
Dade Behring					
Dade Dimension/AR/ES/RxL/Xpand	33	2.11	0.07	3.5	2.1
DCL					
Roche Cobas Fara/Mira/Bio	6	1.92	0.29	15.3	1.9
All Chemistry Instruments	9	1.98	0.25	12.6	2.0
Olympus					
Olympus AU	8	2.04	0.33	16.2	2.0
Pointe Scientific/Landmark					
All Chemistry Instruments	5	2.22	0.19	8.7	2.3
Roche COBAS					
Roche Cobas Fara/Mira/Bio	11	1.82	0.18	9.8	1.9
Roche Integra					
Roche Integra	13	2.23	0.12	5.3	2.2
VITROS					
VITROS 250,350,500,700,750,950	22	2.23	0.08	3.5	2.3
All Chemistry Instruments	24	2.23	0.08	3.4	2.3

Phosphorus (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	210	4.84	0.30	6.3	4.8	212	4.89	0.31	6.4	4.9
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	30	4.41	0.15	3.5	4.4	30	4.47	0.17	3.7	4.5
Beckman										
Beckman Synchron	24	5.00	0.30	5.9	5.1	23	5.10	0.27	5.4	5.1
Beckman Synchron LX/PRo/DxC	10	5.09	0.33	6.4	5.3	10	5.19	0.35	6.7	5.4
All Chemistry Instruments	35	5.02	0.30	6.0	5.1	34	5.12	0.29	5.7	5.1
Carolina Liquid Chemistries										
Beckman Synchron	5	5.18	0.33	6.3	5.3	5	5.06	0.29	5.7	5.1
All Chemistry Instruments	6	5.18	0.29	5.6	5.3	6	5.05	0.26	5.1	5.1
Clinical Data										
Clinical Data ATAC 8000	11	5.06	0.21	4.2	5.0	11	5.10	0.20	3.9	5.0
All Chemistry Instruments	13	5.08	0.20	4.0	5.1	13	5.10	0.19	3.7	5.0
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	39	4.80	0.11	2.4	4.8	39	4.85	0.12	2.5	4.9
DCL										
Roche Cobas Fara/Mira/Bio	5	4.98	0.25	5.0	5.0	5	5.26	0.13	2.6	5.2
All Chemistry Instruments	6	4.92	0.27	5.5	5.0	6	5.17	0.26	5.0	5.2
Olympus										
Olympus AU	8	4.68	0.18	3.9	4.7	8	4.71	0.21	4.5	4.8
Pointe Scientific/Landmark										
All Chemistry Instruments	7	5.26	0.34	6.4	5.2	7	5.27	0.35	6.6	5.3
Roche COBAS										
Roche Cobas Fara/Mira/Bio	9	4.67	0.19	4.1	4.7	9	4.80	0.18	3.8	4.7
Roche Integra										
Roche Integra	13	4.75	0.18	3.7	4.7	13	4.82	0.14	3.0	4.8
VITROS										
VITROS 250,350,500,700,750,950	21	4.92	0.20	4.1	5.0	21	4.93	0.16	3.2	4.9
All Chemistry Instruments	22	4.89	0.25	5.1	5.0	22	4.92	0.17	3.4	4.9

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	519	5.60	0.18	3.2	5.6	515	3.56	0.13	3.7	3.5
Abaxis Piccolo										
Abaxis Piccolo	30	5.64	0.15	2.6	5.6	29	3.60	0.12	3.2	3.6
Abbott Aeroset										
Abbott Aeroset	5	5.66	0.15	2.7	5.7	5	3.54	0.13	3.8	3.6
Abbott Architect										
Abbott Architect	6	5.58	0.08	1.3	5.6	6	3.53	0.05	1.5	3.5
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	81	5.62	0.13	2.4	5.6	82	3.56	0.11	3.0	3.6
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	5	5.14	0.27	5.3	5.2	5	3.24	0.27	8.3	3.3
Beckman										
Beckman Synchron	41	5.49	0.08	1.5	5.5	43	3.46	0.09	2.5	3.5
Beckman Synchron LX/PRo/DxC	13	5.42	0.10	1.8	5.4	13	3.42	0.07	2.0	3.4
All Chemistry Instruments	54	5.47	0.09	1.7	5.5	56	3.45	0.08	2.4	3.5
Carolina Liquid Chemistries										
Beckman Synchron	8	5.36	0.16	3.0	5.4	8	3.38	0.14	4.1	3.4
All Chemistry Instruments	9	5.37	0.15	2.8	5.4	9	3.38	0.13	3.9	3.4
Clinical Data										
Clinical Data ATAC 1500,2000,6000	5	5.64	0.05	1.0	5.6	5	3.68	0.04	1.2	3.7
Clinical Data ATAC 8000	42	5.78	0.19	3.3	5.8	41	3.64	0.15	4.1	3.7
All Chemistry Instruments	50	5.76	0.19	3.2	5.8	49	3.64	0.14	3.8	3.7

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-11 (cont'd)</u>					<u>Specimen CH-12 (cont'd)</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Dade Behring										
Dade Analyst	5	6.24	0.32	5.1	6.4	5	4.22	0.30	7.0	4.3
Dade Dimension/AR/ES/RxL/Xpand	73	5.64	0.09	1.7	5.6	73	3.53	0.08	2.4	3.5
All Chemistry Instruments	76	5.65	0.11	1.9	5.6	74	3.53	0.09	2.4	3.5
DCL										
Roche Cobas Fara/Mira/Bio	12	5.59	0.24	4.2	5.6	12	3.60	0.14	3.9	3.6
All Chemistry Instruments	14	5.59	0.22	3.9	5.6	14	3.56	0.16	4.5	3.6
Olympus										
Olympus AU	9	5.48	0.15	2.7	5.5	9	3.46	0.13	3.9	3.4
Pointe Scientific/Landmark										
All Chemistry Instruments	9	5.71	0.32	5.6	5.8	9	3.63	0.24	6.7	3.6
Polymedco										
Polymedco Poly-Chem System	6	5.60	0.14	2.5	5.6	6	3.58	0.10	2.7	3.6
Roche COBAS										
Roche Cobas Fara/Mira/Bio	49	5.58	0.20	3.6	5.6	48	3.64	0.14	3.9	3.7
Roche Integra										
Roche Integra	26	5.55	0.14	2.6	5.5	26	3.49	0.11	3.3	3.5
ThermoDMA										
All Chemistry Instruments	5	5.50	0.16	2.9	5.5	5	3.54	0.09	2.5	3.6
ThermoTrace										
Roche Cobas Fara/Mira/Bio	6	5.52	0.15	2.7	5.5	6	3.50	0.14	4.0	3.5
All Chemistry Instruments	8	5.60	0.24	4.3	5.6	8	3.52	0.14	3.9	3.5
VITROS										
VITROS 250,350,500,700,750,950	54	5.58	0.16	2.8	5.6	54	3.59	0.13	3.5	3.6
All Chemistry Instruments	56	5.57	0.16	2.8	5.6	56	3.59	0.12	3.4	3.6
Specimen CH-13										
Specimen CH-14										
All Method	517	5.52	0.18	3.3	5.5	514	4.19	0.15	3.5	4.2
Abaxis Piccolo										
Abaxis Piccolo	30	5.60	0.15	2.7	5.6	29	4.26	0.15	3.5	4.3
Abbott Aeroset										
Abbott Aeroset	5	5.54	0.18	3.3	5.6	5	4.16	0.15	3.6	4.2
Abbott Architect										
Abbott Architect	6	5.53	0.05	0.9	5.5	6	4.18	0.08	1.8	4.2
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	79	5.54	0.12	2.1	5.5	80	4.22	0.11	2.7	4.2
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	5	5.12	0.26	5.1	5.2	5	3.88	0.26	6.7	3.9
Beckman										
Beckman Synchron	43	5.41	0.12	2.3	5.4	43	4.06	0.10	2.4	4.1
Beckman Synchron LX/PRo/DxC	13	5.30	0.12	2.2	5.3	13	4.02	0.08	2.0	4.0
All Chemistry Instruments	56	5.39	0.13	2.4	5.4	56	4.05	0.10	2.4	4.1
Carolina Liquid Chemistries										
Beckman Synchron	8	5.29	0.12	2.4	5.3	8	4.00	0.11	2.7	4.0
All Chemistry Instruments	9	5.30	0.12	2.3	5.3	9	4.00	0.10	2.5	4.0
Clinical Data										
Clinical Data ATAC 1500,2000,6000	5	5.58	0.04	0.8	5.6	5	4.32	0.04	1.0	4.3
Clinical Data ATAC 8000	42	5.70	0.21	3.7	5.7	42	4.32	0.17	4.0	4.3
All Chemistry Instruments	50	5.68	0.20	3.5	5.7	50	4.32	0.16	3.7	4.3

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13 (cont'd)</u>				<u>Specimen CH-14 (cont'd)</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Dade Behring										
Dade Analyst	5	6.20	0.32	5.1	6.3	5	4.80	0.29	6.1	4.8
Dade Dimension/AR/ES/RxL/Xpand	74	5.59	0.11	2.0	5.6	73	4.21	0.09	2.2	4.2
All Chemistry Instruments	75	5.59	0.11	2.0	5.6	76	4.23	0.13	3.0	4.2
DCL										
Roche Cobas Fara/Mira/Bio	12	5.46	0.20	3.7	5.5	12	4.19	0.17	4.1	4.2
All Chemistry Instruments	14	5.46	0.19	3.5	5.5	14	4.18	0.17	4.0	4.2
Olympus										
Olympus AU	9	5.44	0.10	1.9	5.5	9	4.14	0.11	2.7	4.1
Pointe Scientific/Landmark										
All Chemistry Instruments	9	5.60	0.34	6.1	5.6	9	4.27	0.30	7.0	4.2
Polymedco										
Polymedco Poly-Chem System	6	5.52	0.18	3.3	5.4	6	4.17	0.08	2.0	4.2
Roche COBAS										
Roche Cobas Fara/Mira/Bio	48	5.49	0.20	3.7	5.5	48	4.25	0.13	3.0	4.2
Roche Integra										
Roche Integra	26	5.50	0.17	3.1	5.5	26	4.14	0.11	2.7	4.1
ThermoDMA										
All Chemistry Instruments	5	5.50	0.16	2.9	5.5	5	4.14	0.09	2.2	4.2
ThermoTrace										
Roche Cobas Fara/Mira/Bio	6	5.37	0.22	4.0	5.4	6	4.12	0.16	3.9	4.1
All Chemistry Instruments	8	5.46	0.29	5.3	5.5	8	4.18	0.19	4.6	4.2
VITROS										
VITROS 250,350,500,700,750,950	54	5.48	0.17	3.1	5.5	54	4.16	0.13	3.2	4.2
All Chemistry Instruments	56	5.48	0.17	3.2	5.5	56	4.16	0.14	3.3	4.2

Specimen CH-15

All Method	515	7.56	0.25	3.3	7.6
Abaxis Piccolo					
Abaxis Piccolo	30	7.65	0.19	2.4	7.6
Abbott Aroset					
Abbott Aroset	5	7.66	0.15	2.0	7.6
Abbott Architect					
Abbott Architect	6	7.55	0.14	1.8	7.5
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	79	7.57	0.16	2.1	7.6
Bayer (Express / Plus)					
Chiron Diagnostics 550 Express	5	6.98	0.27	3.8	7.0
Beckman					
Beckman Synchron	42	7.41	0.12	1.6	7.4
Beckman Synchron LX/PRo/DxC	13	7.28	0.15	2.1	7.2
All Chemistry Instruments	55	7.38	0.14	1.9	7.4
Carolina Liquid Chemistries					
Beckman Synchron	8	7.38	0.23	3.1	7.4
All Chemistry Instruments	9	7.38	0.21	2.9	7.4
Clinical Data					
Clinical Data ATAC 1500,2000,6000	5	7.64	0.05	0.7	7.6
Clinical Data ATAC 8000	41	7.80	0.26	3.4	7.8
All Chemistry Instruments	48	7.79	0.22	2.8	7.8

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Dade Behring					
Dade Analyst	5	8.30	0.45	5.4	8.4
Dade Dimension/AR/ES/RxL/Xpand	73	7.68	0.14	1.8	7.7
All Chemistry Instruments	76	7.69	0.15	2.0	7.7
DCL					
Roche Cobas Fara/Mira/Bio	12	7.39	0.30	4.1	7.3
All Chemistry Instruments	14	7.40	0.29	3.9	7.3
Olympus					
Olympus AU	9	7.46	0.12	1.7	7.5
Pointe Scientific/Landmark					
All Chemistry Instruments	9	7.67	0.42	5.5	7.6
Polymedco					
Polymedco Poly-Chem System	6	7.48	0.12	1.6	7.5
Roche COBAS					
Roche Cobas Fara/Mira/Bio	49	7.37	0.28	3.8	7.4
Roche Integra					
Roche Integra	26	7.55	0.22	2.9	7.5
ThermoDMA					
All Chemistry Instruments	5	7.48	0.26	3.5	7.5
ThermoTrace					
Roche Cobas Fara/Mira/Bio	6	7.32	0.18	2.5	7.3
All Chemistry Instruments	8	7.45	0.30	4.1	7.5
VITROS					
VITROS 250,350,500,700,750,950	54	7.56	0.20	2.7	7.5
All Chemistry Instruments	55	7.55	0.21	2.8	7.5

TIBC (mcg/dL)**Specimen CH-11****Specimen CH-12**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	90	257.2	51.1	19.9	252	92	164.5	41.2	25.0	158
Beckman										
Beckman Synchron	5	286.4	21.3	7.5	288	5	185.2	12.3	6.6	188
All Chemistry Instruments	9	234.9	63.3	26.9	262	9	146.9	46.3	31.5	170
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	23	215.2	9.9	4.6	215	24	130.5	9.1	7.0	128
DCL										
All Chemistry Instruments	7	236.6	25.7	10.9	239	7	151.4	19.1	12.6	152
Raichem										
Roche Cobas Fara/Mira/Bio	5	268.0	8.9	3.3	269	5	178.4	9.2	5.2	178
Roche Integra										
Roche Integra	12	253.0	6.4	2.5	257	12	157.0	4.8	3.1	158
VITROS										
VITROS 250,350,500,700,750,950	11	339.6	27.8	8.2	342	13	233.1	24.5	10.5	231
All Chemistry Instruments	12	327.9	48.5	14.8	342	14	226.0	35.4	15.7	231

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13 (cont'd)					Specimen CH-14 (cont'd)				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Abbott Architect										
Abbott Architect	6	29.2	1.0	3.4	29	6	27.2	0.8	2.8	27
Alfa Wassermann - New										
Alfa Wassermann ACE/NexCT/Alera	60	30.1	1.2	3.9	30	60	28.6	1.1	3.7	29
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	24	30.3	2.1	6.9	30	25	28.9	1.9	6.6	29
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	6	28.8	2.0	7.1	29	6	27.5	1.0	3.8	28
Beckman										
Beckman Synchron	44	30.5	1.0	3.1	30	44	28.6	0.9	3.1	29
Beckman Synchron LX/PRo/DxC	13	29.1	1.8	6.4	30	13	27.4	1.8	6.6	28
All Chemistry Instruments	56	30.2	1.2	4.0	30	55	28.4	1.0	3.6	29
Carolina Liquid Chemistries										
Beckman Synchron	8	30.5	0.8	2.5	31	8	29.2	0.9	3.0	29
All Chemistry Instruments	9	30.6	0.7	2.4	31	9	29.2	0.8	2.9	29
Clinical Data										
Clinical Data ATAC 1500,2000,6000	5	28.6	3.7	13.0	30	5	27.0	3.4	12.6	28
Clinical Data ATAC 8000	45	30.4	1.1	3.6	30	44	28.6	0.9	3.2	29
All Chemistry Instruments	52	30.4	1.1	3.5	30	51	28.6	1.0	3.3	29
Dade Behring										
Dade Analyst	5	29.4	0.9	3.0	30	5	27.4	0.5	2.0	27
Dade Dimension/AR/ES/RxL/Xpand	74	29.8	1.1	3.6	30	72	28.0	1.0	3.6	28
All Chemistry Instruments	79	29.7	1.1	3.6	30	77	28.0	1.0	3.5	28
DCL										
Roche Cobas Fara/Mira/Bio	12	29.5	1.0	3.4	30	12	27.3	1.7	6.1	28
All Chemistry Instruments	15	29.2	1.3	4.3	29	15	27.5	1.7	6.3	28
Olympus										
Olympus AU	9	29.0	1.7	6.0	29	9	27.2	1.3	4.8	28
Pointe Scientific/Landmark										
All Chemistry Instruments	7	30.0	1.2	3.8	30	7	28.3	2.1	7.6	28
Polymedco										
Polymedco Poly-Chem System	7	29.1	0.7	2.4	29	7	26.7	1.0	3.6	26
Roche COBAS										
Roche Cobas Fara/Mira/Bio	51	28.0	1.8	6.5	28	55	25.7	2.1	8.0	26
Roche Integra										
Roche Integra	26	28.8	1.0	3.3	29	26	26.8	1.0	3.9	27
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	8	30.0	1.2	4.0	31	8	28.4	1.1	3.7	29
All Chemistry Instruments	9	30.1	1.2	3.9	31	9	28.2	1.1	3.9	28
ThermoDMA										
Roche Cobas Fara/Mira/Bio	5	30.2	1.1	3.6	31	5	28.4	1.8	6.4	28
All Chemistry Instruments	11	30.7	1.2	3.9	31	11	28.8	1.3	4.6	29
VITROS										
VITROS 250,350,500,700,750,950	55	27.6	0.8	2.7	28	54	25.5	0.6	2.4	26
VITROS DT/DTII/DT60	23	26.5	1.7	6.5	27	23	24.4	1.7	7.0	25
All Chemistry Instruments	78	27.4	1.1	4.1	27	76	25.3	0.9	3.5	25

Specimen CH-15

All Method	555	25.2	1.5	5.8	25
Abaxis Piccolo					
Abaxis Piccolo	28	23.7	0.7	2.8	24
Abbott Aeroset					
Abbott Aeroset	5	26.4	1.1	4.3	26
Abbott Architect					
Abbott Architect	6	24.7	0.8	3.3	25
Alfa Wassermann - New					
Alfa Wassermann ACE/NexCT/Alera	60	25.7	1.1	4.3	26

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	25	26.2	1.9	7.3	26
Beckman					
Beckman Synchron	44	25.9	0.9	3.6	26
Beckman Synchron LX/PRo/DxC	13	24.5	1.9	7.6	25
All Chemistry Instruments	57	25.6	1.3	5.1	26
Carolina Liquid Chemistries					
Beckman Synchron	8	26.5	0.9	3.5	27
All Chemistry Instruments	9	26.4	0.9	3.3	26
Clinical Data					
Clinical Data ATAC 1500,2000,6000	5	25.8	1.1	4.2	26
Clinical Data ATAC 8000	45	26.2	1.0	3.6	26
All Chemistry Instruments	53	26.3	1.0	3.8	26
Dade Behring					
Dade Analyst	5	24.8	0.4	1.8	25
Dade Dimension/AR/ES/RxL/Xpand	72	25.5	0.9	3.7	26
All Chemistry Instruments	77	25.5	0.9	3.7	25
DCL					
Roche Cobas Fara/Mira/Bio	12	24.8	1.2	4.9	25
All Chemistry Instruments	15	24.7	1.1	4.4	25
Olympus					
Olympus AU	9	24.9	1.4	5.5	25
Pointe Scientific/Landmark					
All Chemistry Instruments	7	25.0	1.4	5.7	25
Polymedco					
Polymedco Poly-Chem System	7	24.9	1.2	4.9	25
Roche COBAS					
Roche Cobas Fara/Mira/Bio	56	23.4	2.1	9.1	24
Roche Integra					
Roche Integra	26	24.5	1.0	4.0	24
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	8	26.0	1.4	5.4	26
All Chemistry Instruments	9	25.9	1.4	5.3	26
ThermoDMA					
Roche Cobas Fara/Mira/Bio	5	25.8	2.0	7.9	26
All Chemistry Instruments	11	26.4	1.6	5.9	26
VITROS					
VITROS 250,350,500,700,750,950	55	24.9	0.7	2.6	25
VITROS DT/DTII/DT60	22	23.8	1.6	6.9	24
All Chemistry Instruments	77	24.6	1.0	4.1	25

Uric Acid (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	368	4.14	0.41	10.0	4.1	364	7.99	0.48	6.0	8.0
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	59	4.74	0.20	4.1	4.7	59	8.21	0.37	4.5	8.2
Beckman										
Beckman Synchron	30	3.88	0.11	2.9	3.9	30	7.51	0.17	2.3	7.5
Beckman Synchron LX/PRO/DxC	10	3.89	0.10	2.6	3.9	10	7.58	0.15	2.0	7.5
All Chemistry Instruments	40	3.88	0.11	2.8	3.9	40	7.53	0.17	2.2	7.5
Carolina Liquid Chemistries										
Beckman Synchron	6	3.60	0.13	3.5	3.6	6	7.45	0.10	1.4	7.5
All Chemistry Instruments	7	3.60	0.12	3.2	3.6	7	7.44	0.10	1.3	7.4
Clinical Data										
Clinical Data ATAC 8000	27	3.65	0.21	5.7	3.6	27	7.55	0.29	3.8	7.5
All Chemistry Instruments	30	3.68	0.24	6.5	3.7	30	7.59	0.31	4.0	7.6
Dade Behring										
Dade Analyst	5	4.46	0.27	6.1	4.5	5	8.46	0.25	3.0	8.5
Dade Dimension/AR/ES/RxL/Xpand	48	4.35	0.14	3.3	4.3	46	8.33	0.14	1.7	8.3
All Chemistry Instruments	53	4.36	0.16	3.6	4.3	51	8.34	0.16	1.9	8.3
DCL										
Roche Cobas Fara/Mira/Bio	12	4.17	0.34	8.1	4.3	12	8.66	0.58	6.7	8.9
All Chemistry Instruments	14	4.14	0.33	7.9	4.2	14	8.46	0.77	9.1	8.6
Olympus										
Olympus AU	8	4.15	0.13	3.2	4.2	8	8.25	0.35	4.2	8.3
Pointe Scientific/Landmark										
All Chemistry Instruments	10	4.24	0.35	8.3	4.2	10	7.91	0.49	6.1	7.9
Polymedco										
Polymedco Poly-Chem System	5	4.20	0.16	3.8	4.2	5	8.34	0.33	3.9	8.4
Roche COBAS										
Roche Cobas Fara/Mira/Bio	31	3.54	0.24	6.8	3.5	31	7.39	0.42	5.7	7.4
Roche Integra										
Roche Integra	20	4.14	0.10	2.5	4.1	20	8.36	0.15	1.8	8.4
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	5	4.26	0.25	5.9	4.3	5	8.28	0.19	2.3	8.2
ThermoDMA										
All Chemistry Instruments	5	4.38	0.50	11.3	4.6	5	8.42	0.46	5.4	8.6
VITROS										
VITROS 250,350,500,700,750,950	38	4.01	0.12	3.0	4.0	38	7.92	0.21	2.7	7.9
VITROS DT/DTII/DT60	8	4.18	0.09	2.1	4.2	8	7.85	0.14	1.8	7.9
All Chemistry Instruments	46	4.03	0.13	3.3	4.1	46	7.91	0.20	2.5	7.9

Uric Acid (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	361	8.57	0.48	5.6	8.6	362	9.75	0.55	5.6	9.8
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	59	8.77	0.39	4.4	8.8	58	10.03	0.44	4.4	10.1
Beckman										
Beckman Synchron	30	8.11	0.21	2.7	8.1	30	9.18	0.26	2.8	9.2
Beckman Synchron LX/PRo/DxC	10	8.22	0.23	2.9	8.1	10	9.32	0.22	2.4	9.4
All Chemistry Instruments	40	8.14	0.22	2.7	8.1	40	9.21	0.26	2.8	9.2
Carolina Liquid Chemistries										
Beckman Synchron	6	7.90	0.09	1.1	7.9	6	9.25	0.27	2.9	9.3
All Chemistry Instruments	7	7.89	0.09	1.1	7.9	7	9.27	0.25	2.7	9.3
Clinical Data										
Clinical Data ATAC 8000	27	8.28	0.24	3.0	8.2	27	9.37	0.29	3.1	9.3
All Chemistry Instruments	30	8.31	0.28	3.3	8.3	30	9.41	0.33	3.5	9.3
Dade Behring										
Dade Analyst	5	8.98	0.11	1.2	9.0	5	9.80	0.52	5.4	10.0
Dade Dimension/AR/ES/RxL/Xpand	46	8.83	0.15	1.7	8.8	46	9.98	0.19	1.9	10.0
All Chemistry Instruments	51	8.84	0.16	1.8	8.8	51	9.97	0.21	2.1	10.0
DCL										
Roche Cobas Fara/Mira/Bio	12	9.28	0.70	7.5	9.6	12	10.79	0.60	5.6	11.0
All Chemistry Instruments	14	9.06	0.93	10.3	9.4	14	10.46	1.05	10.0	10.9
Olympus										
Olympus AU	8	8.51	0.27	3.2	8.6	8	10.06	0.24	2.4	10.2
Pointe Scientific/Landmark										
All Chemistry Instruments	10	8.61	0.65	7.6	8.5	10	9.78	0.71	7.3	9.7
Polymedco										
Polymedco Poly-Chem System	5	8.84	0.29	3.3	8.9	5	10.12	0.28	2.7	10.1
Roche COBAS										
Roche Cobas Fara/Mira/Bio	31	8.09	0.55	6.8	7.9	31	9.24	0.56	6.1	9.1
Roche Integra										
Roche Integra	20	8.80	0.20	2.3	8.8	20	10.08	0.23	2.3	10.1
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	5	8.98	0.41	4.6	9.0	5	9.82	0.37	3.8	9.8
ThermoDMA										
All Chemistry Instruments	5	8.96	0.51	5.7	9.2	5	10.12	0.54	5.4	10.0
VITROS										
VITROS 250,350,500,700,750,950	38	8.52	0.22	2.6	8.5	38	9.59	0.25	2.6	9.6
VITROS DT/DTII/DT60	8	8.46	0.16	1.9	8.6	8	9.45	0.17	1.8	9.5
All Chemistry Instruments	46	8.51	0.21	2.5	8.5	46	9.56	0.24	2.5	9.5

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>
All Method	364	4.66	0.41	8.7	4.7
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	59	5.09	0.25	4.9	5.1
Beckman					
Beckman Synchron	30	4.29	0.13	3.1	4.3
Beckman Synchron LX/PRo/DxC	10	4.29	0.09	2.0	4.3
All Chemistry Instruments	40	4.29	0.12	2.8	4.3
Carolina Liquid Chemistries					
Beckman Synchron	6	4.20	0.24	5.8	4.2
All Chemistry Instruments	7	4.20	0.22	5.3	4.2
Clinical Data					
Clinical Data ATAC 8000	26	4.23	0.18	4.3	4.2
Dade Behring					
Dade Analyst	5	5.06	0.18	3.6	5.1
Dade Dimension/AR/ES/RxL/Xpand	46	4.95	0.12	2.4	5.0
All Chemistry Instruments	51	4.96	0.13	2.6	5.0
DCL					
Roche Cobas Fara/Mira/Bio	12	4.67	0.28	6.0	4.7
All Chemistry Instruments	14	4.61	0.33	7.1	4.6
Olympus					
Olympus AU	8	4.69	0.18	3.9	4.7
Pointe Scientific/Landmark					
All Chemistry Instruments	10	4.96	0.57	11.6	4.8
Polymedco					
Polymedco Poly-Chem System	5	4.68	0.18	3.8	4.7
Roche COBAS					
Roche Cobas Fara/Mira/Bio	30	4.06	0.23	5.6	4.0
Roche Integra					
Roche Integra	20	4.62	0.12	2.5	4.6
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	5	5.08	0.15	2.9	5.1
ThermoDMA					
All Chemistry Instruments	5	5.00	0.34	6.8	5.1
VITROS					
VITROS 250,350,500,700,750,950	37	4.62	0.14	3.0	4.6
VITROS DT/DTII/DT60	8	4.70	0.15	3.2	4.7
All Chemistry Instruments	45	4.63	0.14	3.1	4.6

Chloride (mmol/L)

Specimen CH-11

Specimen CH-12

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	517	108.8	3.0	2.7	109	514	100.6	2.7	2.7	100
Abaxis Piccolo										
Abaxis Piccolo	29	106.0	3.1	2.9	106	26	100.2	3.0	3.0	100
ISE Diluted										
Abbott Architect	5	106.4	0.5	0.5	106	5	99.6	0.5	0.5	100
Beckman Synchron	38	107.9	1.6	1.5	108	38	101.4	1.7	1.6	101
Beckman Synchron LX/PRo/DxC	11	106.4	1.3	1.2	106	11	99.7	1.4	1.4	100
BMH - All Hitachi Analyzers	6	109.0	2.0	1.8	109	6	101.3	1.6	1.6	102
Clinical Data ATAC 8000	32	107.4	2.3	2.2	107	32	100.2	2.0	2.0	100
Dade Dimension QuickLyte	8	113.0	1.1	0.9	113	8	104.0	3.0	2.9	106
Dade Dimension/AR/ES/RxL/Xpand	55	112.3	2.0	1.8	112	55	103.8	2.4	2.3	104
Olympus AU	6	107.0	1.1	1.0	107	6	100.0	0.9	0.9	100
Roche Integra	26	109.2	1.7	1.5	109	26	100.8	1.4	1.3	101
All Chemistry Instruments	203	109.2	2.9	2.6	109	203	101.5	2.5	2.5	101

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11 (cont'd)					Specimen CH-12 (cont'd)				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
ISE Undiluted										
Alfa Wassermann ACE/NexCT/Alera	67	109.9	1.3	1.2	110	69	99.7	1.3	1.3	100
Beckman Synchron	12	108.6	4.0	3.7	107	12	103.1	3.4	3.3	103
Chiron Diag. 614,644,654/Fast4	6	107.8	2.3	2.1	108	6	97.7	1.5	1.5	98
Clinical Data ATAC 8000	12	108.4	4.0	3.7	110	12	100.8	4.2	4.2	100
Dade Dimension/AR/ES/RxL/Xpand	8	112.4	1.9	1.7	113	8	102.5	1.9	1.8	103
Medica EasyLyte/Plus	8	108.9	1.9	1.7	109	8	98.8	2.2	2.2	98
Polymedco Poly-Chem System	5	105.6	1.1	1.1	106	5	97.4	1.8	1.9	97
Roche Cobas Fara/Mira/Bio	61	110.6	2.0	1.8	111	61	101.6	2.2	2.1	102
All Chemistry Instruments	203	109.7	2.4	2.2	110	203	100.4	2.4	2.4	100
VITROS										
VITROS 250,350,500,700,750,950	50	105.3	1.2	1.2	105	50	97.9	1.1	1.1	98
All Chemistry Instruments	54	105.3	1.1	1.1	105	53	97.9	1.1	1.1	98
Specimen CH-13										
Specimen CH-14										
All Method	513	97.2	2.3	2.4	97	514	95.6	2.4	2.5	95
Abaxis Piccolo										
Abaxis Piccolo	29	95.9	2.7	2.8	97	29	95.1	1.9	2.0	95
ISE Diluted										
Abbott Architect	5	95.8	0.8	0.9	96	5	94.4	0.5	0.6	94
Beckman Synchron	38	97.9	1.6	1.6	98	38	96.8	1.3	1.4	97
Beckman Synchron LX/PRo/DxC	11	96.2	1.4	1.5	96	11	95.3	1.4	1.5	95
BMH - All Hitachi Analyzers	6	97.0	1.9	2.0	98	6	95.8	2.5	2.6	96
Clinical Data ATAC 8000	31	97.1	2.0	2.1	96	32	96.0	2.0	2.0	96
Dade Dimension QuickLyte	8	99.0	1.9	1.9	100	8	97.8	2.1	2.2	99
Dade Dimension/AR/ES/RxL/Xpand	52	99.2	1.5	1.5	99	53	97.9	2.1	2.1	98
Olympus AU	6	95.5	0.8	0.9	95	6	94.5	0.8	0.9	94
Roche Integra	26	96.8	1.4	1.4	97	26	95.3	1.5	1.6	95
All Chemistry Instruments	201	97.6	2.1	2.1	97	202	96.3	2.2	2.3	96
ISE Undiluted										
Alfa Wassermann ACE/NexCT/Alera	68	97.2	1.1	1.1	97	69	94.8	1.1	1.2	95
Beckman Synchron	12	99.6	3.4	3.4	100	12	98.6	3.5	3.6	98
Chiron Diag. 614,644,654/Fast4	6	95.3	1.8	1.8	96	6	93.0	2.1	2.3	94
Clinical Data ATAC 8000	12	96.9	3.5	3.6	98	12	95.3	4.0	4.2	95
Dade Dimension/AR/ES/RxL/Xpand	8	98.9	1.6	1.7	99	8	97.0	2.7	2.8	99
Medica EasyLyte/Plus	8	96.9	2.4	2.5	98	8	94.4	2.4	2.6	94
Polymedco Poly-Chem System	5	95.0	1.2	1.3	95	5	93.6	1.8	1.9	94
Roche Cobas Fara/Mira/Bio	59	98.9	1.9	1.9	99	61	96.9	2.3	2.4	97
All Chemistry Instruments	201	97.6	2.2	2.2	98	204	95.7	2.5	2.6	95
VITROS										
VITROS 250,350,500,700,750,950	50	94.8	1.1	1.2	95	50	93.5	1.1	1.1	93
All Chemistry Instruments	55	94.7	1.1	1.2	95	55	93.4	1.1	1.2	93

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>
All Method	517	105.3	2.8	2.6	105
Abaxis Piccolo					
Abaxis Piccolo	29	102.0	2.4	2.3	102
ISE Diluted					
Abbott Architect	5	102.6	1.1	1.1	103
Beckman Synchron	38	104.1	1.8	1.7	104
Beckman Synchron LX/PRo/DxC	11	102.5	1.6	1.6	103
BMH - All Hitachi Analyzers	6	104.7	2.3	2.2	104
Clinical Data ATAC 8000	31	104.2	2.5	2.4	104
Dade Dimension QuickLyte	8	108.1	1.5	1.3	108
Dade Dimension/AR/ES/RxL/Xpand	53	107.5	1.5	1.4	108
Olympus AU	6	102.8	1.0	1.0	103
Roche Integra	26	104.2	1.5	1.5	104
All Chemistry Instruments	201	105.0	2.6	2.4	105
ISE Undiluted					
Alfa Wassermann ACE/NexCT/Alera	69	106.7	1.2	1.1	107
Beckman Synchron	12	105.2	3.0	2.9	105
Chiron Diag. 614,644,654/Fast4	6	105.7	2.6	2.4	106
Clinical Data ATAC 8000	12	103.0	3.8	3.7	105
Dade Dimension/AR/ES/RxL/Xpand	8	108.2	1.4	1.3	108
Medica EasyLyte/Plus	8	107.6	2.4	2.3	107
Polymedco Poly-Chem System	5	104.0	1.6	1.5	104
Roche Cobas Fara/Mira/Bio	61	107.5	2.1	2.0	108
All Chemistry Instruments	203	106.6	2.3	2.2	107
VITROS					
VITROS 250,350,500,700,750,950	49	102.5	1.0	1.0	102
All Chemistry Instruments	56	102.8	1.4	1.4	103

CO₂ (mmol/L)**Specimen CH-11****Specimen CH-12**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	487	36.0	2.8	7.7	36	491	27.4	1.8	6.7	28
Enzymatic Reagent										
Abaxis Piccolo	26	31.0	2.8	8.9	31	26	27.0	1.7	6.2	27
Abbott Architect	5	37.6	1.5	4.0	38	5	27.0	1.6	5.9	27
Alfa Wassermann ACE/NexCT/Alera	49	35.3	2.7	7.5	36	48	26.5	2.0	7.6	27
BMH - All Hitachi Analyzers	6	36.7	1.8	4.8	37	6	27.7	2.2	7.8	29
Dade Dimension/AR/ES/RxL/Xpand	47	38.1	1.8	4.7	38	47	28.7	1.4	4.9	29
Olympus AU	5	35.0	0.7	2.0	35	5	27.0	1.4	5.2	26
Polymedco Poly-Chem System	6	34.5	2.9	8.4	36	6	27.0	2.8	10.2	29
Roche Cobas Fara/Mira/Bio	58	36.3	2.9	8.0	36	58	28.4	1.9	6.7	29
Roche Integra	18	37.2	2.3	6.1	37	18	27.5	2.5	9.2	27
Technicon RA,XT,OPERA	5	30.4	3.5	11.5	32	5	24.4	2.9	11.8	25
All Chemistry Instruments	236	35.9	3.3	9.2	36	233	27.6	2.0	7.2	28
ISE Diluted										
Beckman Synchron	36	35.3	1.8	5.2	35	38	27.1	1.3	4.8	27
Beckman Synchron LX/PRo/DxC	11	36.8	1.6	4.3	37	11	27.8	1.3	4.5	28
Clinical Data ATAC 8000	30	36.5	2.1	5.9	37	30	28.1	1.7	6.1	28
Dade Dimension/AR/ES/RxL/Xpand	22	38.5	2.0	5.3	39	22	28.1	1.8	6.2	29
Roche Integra	9	36.6	2.7	7.5	37	9	27.7	2.4	8.7	28
All Chemistry Instruments	117	36.6	2.3	6.3	37	119	27.7	1.6	5.9	28

CO₂ (mmol/L)

<u>Method/Instrument</u>	<u>Specimen CH-11 (cont'd)</u>					<u>Specimen CH-12 (cont'd)</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
ISE Undiluted										
Alfa Wassermann ACE/NexCT/Alera	20	35.6	1.7	4.8	36	20	26.8	1.1	4.2	27
Beckman Synchron	10	33.8	2.3	6.7	35	11	27.2	1.7	6.1	27
Clinical Data ATAC 8000	11	36.6	3.2	8.7	38	11	27.5	2.4	8.8	27
Roche Cobas Fara/Mira/Bio	6	36.7	2.0	5.4	36	6	27.3	1.8	6.4	28
All Chemistry Instruments	60	36.2	3.0	8.3	36	61	27.3	1.8	6.5	27
VITROS										
VITROS 250,350,500,700,750,950	49	34.9	1.5	4.4	35	48	26.9	1.1	3.9	27
All Chemistry Instruments	57	35.0	1.7	4.8	35	56	26.9	1.1	4.0	27

Potassium (mmol/L)

<u>Method/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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	558	5.43	0.14	2.5	5.4	558	5.33	0.14	2.7	5.3
Abaxis Piccolo										
Abaxis Piccolo	29	5.67	0.17	2.9	5.6	28	5.52	0.18	3.2	5.5
BMC Reflotron										
BMC Reflotron/Plus	5	5.66	0.32	5.7	5.5	5	5.40	0.19	3.5	5.5
All Chemistry Instruments	5	5.66	0.32	5.7	5.5	5	5.40	0.19	3.5	5.5
ISE - Calibrated to Flame										
All Chemistry Instruments	6	5.45	0.23	4.3	5.5	6	5.32	0.23	4.4	5.4
ISE Diluted										
Abbott Architect	5	5.24	0.15	2.9	5.3	5	5.16	0.17	3.2	5.2
Beckman Synchron	36	5.42	0.11	2.0	5.4	36	5.34	0.09	1.8	5.3
Beckman Synchron LX/PRo/DxC	11	5.41	0.09	1.7	5.4	11	5.36	0.08	1.5	5.4
BMH - All Hitachi Analyzers	7	5.41	0.09	1.7	5.4	7	5.36	0.10	1.8	5.4
Clinical Data ATAC 8000	30	5.45	0.15	2.8	5.5	30	5.39	0.16	2.9	5.4
Dade Dimension QuickLyte	8	5.42	0.07	1.3	5.4	8	5.38	0.09	1.6	5.4
Dade Dimension/AR/ES/RxL/Xpand	55	5.41	0.07	1.3	5.4	55	5.38	0.06	1.2	5.4
Olympus AU	6	5.43	0.05	1.0	5.4	6	5.37	0.05	1.0	5.4
Roche Integra	25	5.42	0.07	1.4	5.4	25	5.39	0.08	1.4	5.4
All Chemistry Instruments	196	5.41	0.10	1.8	5.4	194	5.36	0.10	1.8	5.4
ISE Undiluted										
Alfa Wassermann ACE/NexCT/Alera	68	5.53	0.07	1.3	5.5	70	5.37	0.08	1.4	5.4
AVL 9100 Series	8	5.35	0.08	1.4	5.4	8	5.20	0.08	1.5	5.2
Beckman Synchron	13	5.45	0.05	1.0	5.5	14	5.36	0.06	1.2	5.4
Chiron Diag. 614,644,654/Fast4	6	5.37	0.23	4.2	5.3	6	5.25	0.23	4.5	5.2
Clinical Data ATAC 8000	13	5.33	0.37	6.9	5.4	13	5.28	0.36	6.8	5.4
Dade Dimension/AR/ES/RxL/Xpand	8	5.42	0.05	0.9	5.4	8	5.34	0.09	1.7	5.3
Medica EasyLyte/Plus	10	5.35	0.16	3.1	5.4	10	5.28	0.17	3.2	5.2
Polymedco Poly-Chem System	5	5.26	0.09	1.7	5.2	5	5.18	0.08	1.6	5.2
Roche Cobas Fara/Mira/Bio	66	5.47	0.12	2.3	5.5	64	5.34	0.10	1.9	5.3
All Chemistry Instruments	220	5.46	0.13	2.4	5.5	219	5.34	0.12	2.2	5.3
VITROS										
VITROS 250,350,500,700,750,950	53	5.28	0.07	1.4	5.3	53	5.11	0.07	1.4	5.1
VITROS DT/DTII/DT60	25	5.40	0.13	2.4	5.4	23	5.27	0.14	2.7	5.3
All Chemistry Instruments	79	5.32	0.10	1.9	5.3	78	5.16	0.12	2.3	5.1

Potassium (mmol/L)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	551	3.76	0.09	2.4	3.8	549	4.25	0.10	2.3	4.3
Abaxis Piccolo										
Abaxis Piccolo	29	3.97	0.20	5.0	3.9	29	4.39	0.17	3.9	4.4
BMC Reflotron										
BMC Reflotron/Plus	5	3.88	0.18	4.6	3.9	5	4.32	0.16	3.8	4.3
All Chemistry Instruments	5	3.88	0.18	4.6	3.9	5	4.32	0.16	3.8	4.3
ISE - Calibrated to Flame										
All Chemistry Instruments	6	3.68	0.13	3.6	3.6	6	4.10	0.13	3.1	4.1
ISE Diluted										
Abbott Architect	5	3.60	0.14	3.9	3.7	5	4.04	0.15	3.8	4.1
Beckman Synchron	36	3.72	0.06	1.6	3.7	36	4.24	0.08	1.9	4.2
Beckman Synchron LX/PRo/DxC	11	3.73	0.05	1.3	3.7	11	4.26	0.05	1.2	4.3
BMH - All Hitachi Analyzers	7	3.73	0.08	2.0	3.7	7	4.27	0.11	2.6	4.3
Clinical Data ATAC 8000	29	3.76	0.09	2.5	3.8	30	4.29	0.13	3.0	4.3
Dade Dimension QuickLyte	8	3.72	0.05	1.2	3.7	8	4.26	0.07	1.7	4.3
Dade Dimension/AR/ES/RxL/Xpand	56	3.73	0.06	1.5	3.7	54	4.28	0.05	1.2	4.3
Olympus AU	6	3.82	0.04	1.1	3.8	6	4.32	0.04	0.9	4.3
Roche Integra	25	3.76	0.07	1.7	3.7	25	4.29	0.05	1.1	4.3
All Chemistry Instruments	194	3.74	0.07	1.8	3.7	196	4.26	0.09	2.1	4.3
ISE Undiluted										
Alfa Wassermann ACE/NexCT/Alera	67	3.80	0.07	1.8	3.8	66	4.27	0.06	1.3	4.3
AVL 9100 Series	8	3.70	0.05	1.4	3.7	8	4.15	0.08	1.8	4.1
Beckman Synchron	14	3.76	0.05	1.4	3.8	14	4.26	0.05	1.2	4.3
Chiron Diag. 614,644,654/Fast4	6	3.75	0.20	5.3	3.7	6	4.23	0.25	5.9	4.2
Clinical Data ATAC 8000	13	3.75	0.16	4.2	3.8	13	4.27	0.17	4.0	4.3
Dade Dimension/AR/ES/RxL/Xpand	8	3.78	0.05	1.2	3.8	8	4.29	0.06	1.5	4.3
Medica EasyLyte/Plus	10	3.71	0.10	2.7	3.7	10	4.22	0.11	2.7	4.2
Polymedco Poly-Chem System	5	3.78	0.04	1.2	3.8	5	4.22	0.04	1.1	4.2
Roche Cobas Fara/Mira/Bio	64	3.83	0.06	1.7	3.8	65	4.30	0.08	1.8	4.3
All Chemistry Instruments	215	3.79	0.08	2.2	3.8	215	4.27	0.08	1.9	4.3
VITROS										
VITROS 250,350,500,700,750,950	53	3.73	0.06	1.6	3.7	53	4.15	0.06	1.5	4.1
VITROS DT/DTII/DT60	25	3.71	0.09	2.3	3.7	25	4.18	0.11	2.6	4.2
All Chemistry Instruments	79	3.73	0.07	1.8	3.7	77	4.15	0.06	1.5	4.1

Specimen CH-15

All Method	554	3.84	0.11	2.9	3.8
Abaxis Piccolo					
Abaxis Piccolo	28	4.15	0.18	4.2	4.1
BMC Reflotron					
BMC Reflotron/Plus	5	4.14	0.11	2.8	4.1
All Chemistry Instruments	5	4.14	0.11	2.8	4.1
ISE - Calibrated to Flame					
All Chemistry Instruments	6	3.77	0.12	3.2	3.8
ISE Diluted					
Abbott Architect	5	3.64	0.09	2.5	3.7
Beckman Synchron	36	3.77	0.06	1.7	3.8
Beckman Synchron LX/PRo/DxC	11	3.78	0.06	1.6	3.8
BMH - All Hitachi Analyzers	7	3.80	0.12	3.0	3.8
Clinical Data ATAC 8000	30	3.82	0.13	3.3	3.8
Dade Dimension QuickLyte	8	3.78	0.09	2.3	3.8
Dade Dimension/AR/ES/RxL/Xpand	55	3.77	0.06	1.5	3.8
Olympus AU	6	3.85	0.05	1.4	3.9
Roche Integra	25	3.79	0.05	1.3	3.8
All Chemistry Instruments	198	3.78	0.08	2.2	3.8

Potassium (mmol/L)**Specimen CH-15 (cont'd)**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
ISE Undiluted					
Alfa Wassermann ACE/NexCT/Alera	66	3.88	0.06	1.5	3.9
AVL 9100 Series	8	3.81	0.06	1.7	3.8
Beckman Synchron	14	3.79	0.06	1.6	3.8
Chiron Diag. 614,644,654/Fast4	6	3.88	0.27	7.0	3.8
Clinical Data ATAC 8000	13	3.77	0.17	4.4	3.8
Dade Dimension/AR/ES/RxL/Xpand	8	3.84	0.07	1.9	3.9
Medica EasyLyte/Plus	10	3.82	0.10	2.7	3.8
Polymedco Poly-Chem System	5	3.88	0.04	1.2	3.9
Roche Cobas Fara/Mira/Bio	64	3.93	0.07	1.7	3.9
All Chemistry Instruments	219	3.87	0.09	2.4	3.9
VITROS					
VITROS 250,350,500,700,750,950	53	3.87	0.06	1.6	3.9
VITROS DT/DTII/DT60	25	3.82	0.07	1.9	3.8
All Chemistry Instruments	80	3.86	0.07	1.7	3.9

Sodium (mmol/L)**Specimen CH-11****Specimen CH-12**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	539	149.8	2.2	1.5	150	539	132.4	2.5	1.9	133
Abaxis Piccolo										
Abaxis Piccolo	27	150.7	3.0	2.0	151	28	135.3	2.6	1.9	135
ISE Diluted										
Abbott Architect	5	149.6	1.1	0.8	150	5	133.0	1.2	0.9	133
Beckman Synchron	35	149.5	1.8	1.2	150	36	133.2	1.6	1.2	133
Beckman Synchron LX/Pro/DxC	10	149.5	1.4	1.0	149	10	133.8	1.5	1.1	134
BMH - All Hitachi Analyzers	7	150.0	1.2	0.8	150	7	133.3	2.0	1.5	134
Clinical Data ATAC 8000	32	150.3	2.3	1.5	150	31	134.9	2.1	1.6	135
Dade Dimension QuickLyte	8	149.8	2.4	1.6	150	8	134.0	2.7	2.0	135
Dade Dimension/AR/ES/RxL/Xpand	54	149.3	2.0	1.3	150	55	133.5	1.9	1.4	134
Olympus AU	6	148.5	1.2	0.8	148	6	132.3	1.2	0.9	133
Roche Integra	24	148.0	2.2	1.5	148	24	131.7	1.8	1.3	132
All Chemistry Instruments	196	149.3	2.0	1.3	149	197	133.3	1.9	1.5	133
ISE Undiluted										
Alfa Wassermann ACE/NexCT/Alera	69	149.4	1.6	1.1	149	67	129.2	1.2	0.9	129
AVL 9100 Series	7	146.6	0.5	0.4	147	7	127.1	0.7	0.5	127
Beckman Synchron	14	149.4	2.2	1.5	150	14	133.9	1.4	1.0	134
Chiron Diag. 614,644,654/Fast4	6	149.8	1.5	1.0	151	6	130.2	1.5	1.1	131
Clinical Data ATAC 8000	12	151.2	3.1	2.0	152	12	134.2	2.1	1.6	135
Dade Dimension/AR/ES/RxL/Xpand	9	149.8	2.1	1.4	149	9	133.0	1.0	0.8	133
Medica EasyLyte/Plus	10	147.5	2.0	1.4	148	9	130.0	1.0	0.8	130
Polymedco Poly-Chem System	5	150.0	1.6	1.1	150	5	132.4	2.1	1.6	132
Roche Cobas Fara/Mira/Bio	65	151.5	1.9	1.3	152	67	132.8	2.0	1.5	133
All Chemistry Instruments	224	149.9	2.3	1.5	150	224	131.4	2.6	1.9	131
VITROS										
VITROS 250,350,500,700,750,950	52	150.8	1.5	1.0	151	53	131.9	1.8	1.3	132
VITROS DT/DTII/DT60	9	152.0	2.2	1.4	153	9	135.0	2.8	2.1	135
All Chemistry Instruments	64	151.1	1.8	1.2	151	63	132.2	1.9	1.4	132

Sodium (mmol/L)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	540	134.0	2.2	1.6	134	541	127.8	2.4	1.9	128
Abaxis Piccolo										
Abaxis Piccolo	29	134.0	2.6	1.9	134	29	128.9	3.7	2.9	129
ISE Diluted										
Abbott Architect	5	134.0	1.2	0.9	134	5	127.6	1.1	0.9	128
Beckman Synchron	36	133.6	1.5	1.2	134	35	128.4	1.4	1.1	128
Beckman Synchron LX/PRo/DxC	10	134.1	1.4	1.0	134	10	128.7	1.1	0.8	128
BMH - All Hitachi Analyzers	7	134.6	1.7	1.3	135	7	127.1	5.6	4.4	129
Clinical Data ATAC 8000	31	134.6	2.6	1.9	135	32	129.4	2.5	1.9	129
Dade Dimension QuickLyte	8	134.6	1.8	1.3	135	8	128.8	2.5	1.9	130
Dade Dimension/AR/ES/RxL/Xpand	54	134.4	1.7	1.2	135	55	129.1	2.0	1.6	129
Olympus AU	6	133.7	1.0	0.8	133	6	128.3	1.4	1.1	128
Roche Integra	24	132.3	2.2	1.7	132	24	126.8	1.8	1.4	127
All Chemistry Instruments	198	133.9	2.0	1.5	134	197	128.5	2.1	1.6	129
ISE Undiluted										
Alfa Wassermann ACE/NexCT/Alera	68	132.2	0.9	0.6	132	68	124.9	0.9	0.7	125
AVL 9100 Series	7	130.6	0.5	0.4	131	7	123.1	0.7	0.6	123
Beckman Synchron	14	133.9	1.6	1.2	134	13	128.3	1.4	1.1	128
Chiron Diag. 614,644,654/Fast4	6	133.5	1.0	0.8	134	6	126.2	0.8	0.6	126
Clinical Data ATAC 8000	12	134.0	2.8	2.1	135	12	129.5	2.2	1.7	130
Dade Dimension/AR/ES/RxL/Xpand	9	134.6	1.4	1.1	134	9	129.0	0.9	0.7	129
Medica EasyLyte/Plus	10	132.4	1.5	1.1	133	10	125.6	1.3	1.0	126
Polymedco Poly-Chem System	5	134.4	1.3	1.0	135	5	128.4	2.1	1.6	128
Roche Cobas Fara/Mira/Bio	67	136.0	2.2	1.6	136	67	129.0	2.1	1.6	129
All Chemistry Instruments	226	133.8	2.3	1.7	133	225	127.1	2.5	2.0	127
VITROS										
VITROS 250,350,500,700,750,950	52	135.3	1.6	1.2	135	53	128.0	1.9	1.5	128
VITROS DT/DTII/DT60	9	134.8	2.1	1.6	135	9	129.2	1.9	1.4	130
All Chemistry Instruments	63	135.2	1.6	1.2	135	64	128.1	1.9	1.5	128

Specimen CH-15

All Method	540	151.4	3.1	2.1	151
Abaxis Piccolo					
Abaxis Piccolo	27	150.5	3.0	2.0	150
ISE Diluted					
Abbott Architect	5	150.2	1.1	0.7	150
Beckman Synchron	35	148.5	1.7	1.1	149
Beckman Synchron LX/PRo/DxC	10	149.0	1.7	1.1	149
BMH - All Hitachi Analyzers	7	151.0	1.2	0.8	151
Clinical Data ATAC 8000	31	149.9	3.1	2.0	150
Dade Dimension QuickLyte	7	150.6	2.6	1.8	151
Dade Dimension/AR/ES/RxL/Xpand	52	149.6	1.5	1.0	150
Olympus AU	6	149.5	1.0	0.7	150
Roche Integra	24	148.0	2.1	1.4	148
All Chemistry Instruments	195	149.4	2.3	1.5	149

Sodium (mmol/L)

Specimen CH-15 (cont'd)

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
ISE Undiluted					
Alfa Wassermann ACE/NexCT/Alera	68	151.7	1.2	0.8	152
AVL 9100 Series	7	150.9	0.7	0.5	151
Beckman Synchron	14	149.2	1.7	1.2	149
Chiron Diag. 614,644,654/Fast4	6	153.8	0.8	0.5	154
Clinical Data ATAC 8000	12	149.8	2.9	2.0	151
Dade Dimension/AR/ES/RxL/Xpand	9	151.2	2.7	1.8	150
Medica EasyLyte/Plus	10	150.2	2.3	1.5	151
Polymedco Poly-Chem System	5	153.2	1.3	0.9	154
Roche Cobas Fara/Mira/Bio	66	154.9	2.2	1.4	155
All Chemistry Instruments	225	152.4	2.7	1.8	152
VITROS					
VITROS 250,350,500,700,750,950	52	155.3	1.9	1.2	155
VITROS DT/DTII/DT60	9	153.4	1.8	1.2	154
All Chemistry Instruments	64	155.0	2.1	1.3	155

Serum hCG – Qualitative

<u>Method</u>	<u>Sensitivity Level mIU/mL</u>	<u>Specimen HCG-11</u>		<u>Specimen HCG-12</u>	
		<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
All Methods	-	221	2	2	221
Abbott AxSYM	-	1	-	-	1
Abbott IMx	<2.0	-	-	-	-
Abbott IMx- Beta hCG	-	-	-	-	-
Beckman Coulter ICON 25 hCG	25	12	-	1	11
Beckman Coulter ICON II HCG	10	-	-	-	-
BioStar Aceava hCG Combo	10	3	-	-	3
Cardinal Health SP Brand combo	-	11	-	-	11
Dade Dimension/AR/ES/RxL/Xpand	-	1	-	-	1
Genzyme Contrast (10 mIU)	10	-	-	-	-
Genzyme Contrast (20 mIU)	20	1	-	-	1
Genzyme OSOM hCG Combo Test	-	8	-	-	8
Genzyme Signify - Urine/Serum	20	7	-	-	7
Hybritech Tandem ICON II	10	1	-	-	1
Immunostics Detector Combi	-	1	-	-	1
Inverness Signify hcG combo	-	11	-	-	11
LifeSign Status hCG	5	1	-	-	1
Mainline Confirms	20	11	-	-	11
McKesson hCG ombo Cassette	-	4	-	-	4
Polymedco Poly stat hCG	20	12	-	-	12
Quidel QuickVue + One-Step	-	5	-	-	5
Quidel QuickVue One-Step Combo	25	98	2	1	99
Quidel QuickVue Semi-Q hCG	-	1	-	-	1
SA Scientific Serum/Urine	-	-	-	-	-
Stanbio QUPID Plus	20	2	-	-	2
Sure-Vue hCG - 25mIU	25	5	-	-	5
Sure-Vue hCG-STAT (10mIU)	10	5	-	-	5
Wampole Clearview hCG Combo	-	9	-	-	9
Wampole Clearview hCG Duo	25	-	-	-	-

Serum hCG – Qualitative

<u>Method</u>	<u>Sensitivity Level</u> <u>MIU/mL</u>	Specimen HCG-13		Specimen HCG-14	
		<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
All Methods	-	222	-	1	221
Abbott AxSYM	-	1	-	-	1
Abbott IMx	<2.0	-	-	-	-
Abbott IMx-Beta hCG	-	-	-	-	-
Beckman Coulter ICON 25 hCG	25	12	-	1	11
Beckman Coulter ICON II HCG	10	-	-	-	-
BioStar Acceava hCG Comb	10	3	-	-	3
Cardinal Health SP Brand combo	-	11	-	-	11
Dade Dimension/AR/ES/RxL/Xpand	-	1	-	-	1
Genzyme Contrast (10 mIU)	10	-	-	-	-
Genzyme Contrast (20 mIU)	20	1	-	-	1
Genzyme OSOM hCG Combo Test	-	8	-	-	8
Genzyme Signify - Urine/Serum	20	7	-	-	7
Hybritech Tandem ICON II	10	1	-	-	1
Immunostics Detector Combi	-	1	-	-	1
Inverness Signify hcG combo	-	11	-	-	11
LifeSign Status hCG	5	1	-	-	1
Mainline Confirms	20	11	-	-	11
McKesson hCG ombo Cassette	-	4	-	-	4
Polymedco Poly stat hCG	20	12	-	-	12
Quidel QuickVue + One-Step	-	5	-	-	5
Quidel QuickVue One-Step Combo	25	99	-	-	99
Quidel QuickVue Semi-Q hCG	-	1	-	-	1
SA Scientific Serum/Urine	-	-	-	-	-
Stanbio QUPID Plus	20	2	-	-	2
Sure-Vue hCG - 25mIU	25	5	-	-	5
Sure-Vue hCG-STAT (10mIU)	10	5	-	-	5
Wampole Clearview hCG Combo	-	9	-	-	9
Wampole Clearview hCG Duo	25	-	-	-	-

Serum hCG – Qualitative

Specimen HCG-15

<u>Method</u>	<u>Sensitivity Level MIU/mL</u>	<u>Positive</u>	<u>Negative</u>
All Methods	-	219	3
Abbott AxSYM	-	1	-
Abbott IMx	<2.0	-	-
Abbott IMx-Beta hCG	-	-	-
Beckman Coulter ICON 25 hCG	25	12	-
Beckman Coulter ICON II HCG	10	-	-
BioStar Aceava hCG Comb	10	3	-
Cardinal Health SP Brand combo	-	11	-
Dade Dimension/AR/ES/RxL/Xpand	-	1	-
Genzyme Contrast (10 mIU)	10	-	-
Genzyme Contrast (20 mIU)	20	1	-
Genzyme OSOM hCG Combo Test	-	8	-
Genzyme Signify - Urine/Serum	20	6	1
Hybritech Tandem ICON II	10	1	-
Immunostics Detector Combi	-	1	-
Inverness Signify hcG combo	-	11	-
LifeSign Status hCG	5	1	-
Mainline Confirms	20	11	-
McKesson hCG ombo Cassette	-	4	-
Polymedco Poly stat hCG	20	12	-
Quidel CARDS QS (10 mIU)	10	-	-
Quidel QuickVue + One-Step	-	5	-
Quidel QuickVue One-Step Combo	25	99	-
Quidel QuickVue Semi-Q hCG	-	1	-
SA Scientific Serum/Urine	-	-	-
Stanbio QUPID Plus	20	2	-
Sure-Vue hCG - 25mIU	25	4	1
Sure-Vue hCG-STAT (10mIU)	10	5	-
Wampole Clearview hCG Combo	-	9	-
Wampole Clearview hCG Duo	25	-	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	<u>Specimen HCG-11</u>					<u>Specimen HCG-12</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	41	171.8	40.0	23.3	182	39	0.8	0.7	83.3	1
Beckman ACCESS	6	106.0	7.4	7.0	105	6	1.0	0	0	1
bioMerieux Vitek, Mini Vidas	5	174.0	12.6	7.3	176	5	1.6	0.9	55.9	2
Dade Dimension/AR/ES/RxL/Xpand	8	194.9	14.3	7.4	194	8	0.4	0.5	138.0	0

<u>Method</u>	<u>Specimen HCG-13</u>					<u>Specimen HCG-14</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	41	960.5	211.4	22.0	985	39	1.1	1.1	105.2	1
Beckman ACCESS	6	612.5	49.0	8.0	610	6	1.0	0	0	1
bioMerieux Vitek, Mini Vidas	5	1096.0	134.8	12.3	1153	5	1.6	0.9	55.9	2
Dade Dimension/AR/ES/RxL/Xpand	8	1053.6	118.0	11.2	1059	8	0.4	0.5	138.0	0

<u>Method</u>	<u>Specimen HCG-15</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	41	49.6	12.4	25.0	52
Beckman ACCESS	6	30.0	1.7	5.6	30
bioMerieux Vitek, Mini Vidas	5	50.2	3.9	7.8	49
Dade Dimension/AR/ES/RxL/Xpand	8	54.9	4.4	7.9	54

Acid Phosphatase (IU/L)

One participant reported results for Acid Phosphatase. The vendor assay values for specimens CH-11 and CH-12 are: <0.0 IU/L and <0.0 IU/L, respectively.

ALT (SGPT) (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Cholestech methods	16	75.6	8.8	11.6	76	16	146.8	14.3	9.8	147
All Clinical Data ATAC 8000/Envoy Instruments	48	54.6	2.8	5.2	55	49	104.9	5.4	5.1	105
All Hitachi Instruments	10	55.0	5.8	10.6	58	10	107.2	11.5	10.7	112
All Mainframe VITROS Instruments	54	72.5	3.3	4.6	73	53	132.0	4.4	3.3	131
All Method	556	58.1	8.7	15.0	55	550	109.1	12.8	11.7	105
Abaxis Piccolo										
Abaxis Piccolo	29	50.4	2.7	5.3	51	27	96.0	4.2	4.3	97
Abbott Aeroset										
Abbott Aeroset	5	58.2	3.0	5.2	57	5	111.0	3.7	3.3	111
Abbott Architect										
Abbott Architect	6	57.0	2.4	4.3	57	6	107.5	3.3	3.1	106
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	21	52.8	5.6	10.6	54	21	99.3	7.3	7.3	100
Alfa Wassermann - New	64	52.7	3.5	6.6	52	62	101.4	3.5	3.5	101
All Chemistry Reagents	85	52.8	3.9	7.5	53	84	101.1	4.7	4.7	101
Beckman Synchron LX/PRo/DxC										
Beckman	13	56.7	2.1	3.7	57	13	106.7	3.0	2.8	106
All Chemistry Reagents	14	56.6	2.1	3.6	57	14	106.6	3.0	2.8	106
Beckman Synchron										
Beckman	41	53.5	2.3	4.4	53	41	101.8	3.9	3.8	102
Carolina Liquid Chemistries	7	54.4	1.7	3.2	54	7	105.9	2.7	2.6	105
All Chemistry Reagents	48	53.6	2.3	4.2	54	48	102.4	4.0	3.9	103
BMH 704, 705, 717										
All Chemistry Reagents	7	54.3	6.7	12.4	57	7	104.3	12.0	11.5	105

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13 (Cont'd)					Specimen CH-14 (Cont'd)				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Cholestech LDX - waived										
Cholestech LDX	15	333.9	33.0	9.9	332	14	286.1	41.6	14.5	274
Clinical Data ATAC 8000										
Clinical Data	45	201.4	9.1	4.5	201	45	188.2	7.5	4.0	188
All Chemistry Reagents	46	201.3	9.0	4.5	201	46	188.3	7.5	4.0	188
Dade Analyst										
Dade Behring	5	171.6	8.6	5.0	171	5	158.4	12.7	8.0	162
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	76	223.8	7.6	3.4	223	75	209.3	6.1	2.9	209
Olympus AU										
Olympus	9	182.0	8.8	4.9	184	9	172.7	6.1	3.6	173
Polymedco Poly-Chem System										
Polymedco	7	228.1	10.0	4.4	222	7	214.1	6.5	3.0	212
Roche Cobas Fara/Mira										
DCL	13	185.2	7.9	4.3	185	13	176.2	6.0	3.4	177
Roche COBAS	51	193.3	7.5	3.9	194	51	184.6	5.7	3.1	185
Thermo Infinity	7	180.6	9.7	5.4	178	7	171.9	6.5	3.8	171
All Chemistry Reagents	83	189.0	10.5	5.5	191	80	181.2	7.7	4.3	183
Roche Integra										
Roche Integra	28	219.9	9.8	4.5	221	28	207.0	8.4	4.1	208
Technicon RA,XT,OPERA										
All Chemistry Reagents	5	208.0	19.3	9.3	203	5	197.6	20.6	10.4	193
VITROS 250,350,500,700,750,950										
VITROS	52	241.3	6.2	2.6	241	52	228.1	6.3	2.8	229
VITROS DT/DTII/DT60										
VITROS	8	240.8	8.2	3.4	240	8	227.6	6.9	3.0	226

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>
All Cholestech methods	16	280.9	26.7	9.5	271
All Clinical Data ATAC 8000/Envoy Instruments	49	153.0	8.0	5.2	152
All Hitachi Instruments	10	158.8	17.8	11.2	165
All Mainframe VITROS Instruments	53	183.4	5.1	2.8	184
All Method	542	156.7	16.9	10.8	152
Abaxis Piccolo					
Abaxis Piccolo	28	138.3	4.1	3.0	139
Abbott Aeroset					
Abbott Aeroset	5	163.6	5.8	3.5	161
Abbott Architect					
Abbott Architect	6	159.8	6.8	4.2	160
Alfa Wassermann ACE/NexCT/Alera					
Alfa Wassermann	20	141.2	10.6	7.5	142
Alfa Wassermann - New	63	143.4	6.8	4.8	143
All Chemistry Reagents	84	143.3	8.1	5.6	143
Beckman Synchron LX/PRo/DxC					
Beckman	13	155.2	4.0	2.6	154
All Chemistry Reagents	14	155.7	4.3	2.7	157
Beckman Synchron					
Beckman	41	149.8	4.8	3.2	150
Carolina Liquid Chemistries	7	155.0	5.5	3.6	157
All Chemistry Reagents	48	150.5	5.2	3.5	151
BMH 704, 705, 717					
All Chemistry Reagents	7	155.0	18.3	11.8	161
Chiron Diagnostics 550 Express					
Bayer (Express / Plus)	5	143.2	8.5	5.9	145
All Chemistry Reagents	7	143.9	8.3	5.7	145
Cholestech LDX - waived					
Cholestech LDX	15	281.9	27.4	9.7	271
Clinical Data ATAC 8000					
Clinical Data	45	151.8	6.9	4.5	152
All Chemistry Reagents	46	151.8	6.8	4.5	152
Dade Analyst					
Dade Behring	5	131.8	6.6	5.0	130
Dade Dimension/AR/ES/RxL/Xpand					
Dade Behring	75	176.1	5.3	3.0	175
Olympus AU					
Olympus	9	140.7	7.3	5.2	144
Polymedco Poly-Chem System					
Polymedco	7	171.6	8.6	5.0	173
Roche Cobas Fara/Mira/Bio					
DCL	13	142.6	5.3	3.7	143
Roche COBAS	51	148.3	4.5	3.1	149
Thermo Infinity	7	140.0	5.0	3.6	142
All Chemistry Reagents	83	145.3	6.9	4.7	147
Roche Integra					
Roche Integra	28	166.9	6.2	3.7	167
Technicon RA,XT,OPERA					
All Chemistry Reagents	5	158.6	16.7	10.6	156
VITROS 250,350,500,700,750,950					
VITROS	52	183.5	5.1	2.8	184
VITROS DT/DTII/DT60					
VITROS	8	183.1	5.8	3.2	185

Alkaline Phosphatase (IU/L)

<i>Instrument/Reagent</i>	Specimen CH-11					Specimen CH-12				
	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>
All Hitachi Instruments	9	99.9	8.9	8.9	98	10	153.4	20.3	13.3	155
All VITROS Instruments	56	83.7	6.7	8.0	82	56	122.2	12.8	10.5	121
All Method	522	94.1	12.1	12.8	93	519	140.0	18.7	13.4	138
Abaxis Piccolo										
Abaxis Piccolo	29	85.4	9.0	10.6	86	28	124.0	12.5	10.1	123
Abbott Aeroset										
Abbott Aeroset	5	108.4	10.8	9.9	112	5	154.4	9.3	6.0	157
Abbott Architect										
Abbott Architect	6	100.5	6.5	6.4	104	6	149.3	10.9	7.3	154
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	22	103.1	6.9	6.7	104	22	152.5	15.2	9.9	152
Alfa Wassermann - New	62	99.8	9.1	9.1	98	62	150.2	14.4	9.6	148
All Chemistry Reagents	84	100.7	8.6	8.6	99	84	150.8	14.5	9.6	149
Beckman Synchron LX/PRO/DxC										
Beckman	13	86.1	5.3	6.2	85	13	126.6	5.5	4.3	127
All Chemistry Reagents	14	85.6	5.4	6.3	85	14	126.1	5.6	4.4	127
Beckman Synchron										
Beckman	40	87.7	6.2	7.1	87	40	129.2	10.5	8.2	127
Carolina Liquid Chemistries	7	87.7	9.2	10.5	84	7	126.6	16.1	12.8	124
All Chemistry Reagents	47	87.7	6.6	7.6	86	47	128.8	11.4	8.8	127
BMH 704, 705, 717										
All Chemistry Reagents	6	96.5	7.3	7.5	96	7	155.1	21.7	14.0	155
Chiron Diagnostics 550 Express										
Bayer (Express / Plus)	7	120.1	12.9	10.8	117	7	183.6	11.6	6.3	184
All Chemistry Reagents	9	117.4	12.6	10.7	112	9	175.6	19.2	10.9	173
Clinical Data ATAC 1500,2000,6000										
Clinical Data	5	94.2	12.0	12.8	98	5	149.6	18.7	12.5	150
Clinical Data ATAC 8000										
Clinical Data	42	93.0	11.1	11.9	93	43	140.1	16.9	12.1	137
Dade Analyst										
Dade Behring	5	117.2	9.1	7.8	113	5	162.0	9.3	5.7	164
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	75	104.0	10.9	10.5	104	74	150.4	15.1	10.0	149
Olympus AU										
Olympus	9	98.2	13.5	13.8	97	9	144.7	18.0	12.4	142
Polymedco Poly-Chem System										
Polymedco	7	94.1	10.3	11.0	94	5	133.2	9.8	7.3	136
Roche Cobas Fara/Mira/Bio										
DCL	13	88.8	13.4	15.1	86	11	137.5	15.4	11.2	130
Roche COBAS	48	84.9	10.1	11.9	85	46	125.5	9.6	7.7	127
ThermoDMA	5	99.4	6.4	6.5	99	5	157.8	16.5	10.5	153
ThermoTrace	5	99.0	3.1	3.1	100	5	154.0	11.9	7.7	155
All Chemistry Reagents	78	87.6	11.0	12.6	87	76	131.5	16.8	12.8	129
Roche Integra										
Roche Integra	28	97.5	7.9	8.1	97	28	149.2	13.1	8.8	150
Technicon RA,XT,OPERA										
All Chemistry Reagents	6	96.7	7.6	7.8	100	6	142.2	10.3	7.2	142
VITROS 250,350,500,700,750,950										
VITROS	53	83.7	6.7	8.0	82	53	122.8	12.7	10.4	121

Alkaline Phosphatase (IU/L)

<i>Instrument/Reagent</i>	Specimen CH-13					Specimen CH-14				
	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>
All VITROS Instruments	56	259.7	22.8	8.8	258	54	223.7	19.8	8.9	221
All Method	524	306.2	41.7	13.6	306	521	258.6	34.8	13.5	259
Abaxis Piccolo										
Abaxis Piccolo	29	262.5	26.5	10.1	261	29	225.3	24.2	10.7	223
Abbott Aeroset										
Abbott Aeroset	5	343.4	35.6	10.4	350	5	286.4	26.3	9.2	299
Abbott Architect										
Abbott Architect	6	319.3	37.4	11.7	335	6	275.0	27.4	10.0	284
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	22	333.1	27.5	8.2	329	22	283.4	27.3	9.6	289
Alfa Wassermann - New	62	329.6	32.4	9.8	331	62	275.2	26.9	9.8	276
All Chemistry Reagents	84	330.5	31.1	9.4	329	84	277.4	27.1	9.8	276
Beckman Synchron LX/PRO/DxC										
Beckman	13	280.6	16.7	6.0	278	13	232.4	13.0	5.6	226
All Chemistry Reagents	14	278.1	18.7	6.7	278	14	232.3	12.5	5.4	231
Beckman Synchron										
Beckman	40	284.1	22.2	7.8	283	40	241.7	19.0	7.9	243
Carolina Liquid Chemistries	7	278.9	34.8	12.5	275	5	219.0	13.5	6.2	218
All Chemistry Reagents	47	283.3	24.1	8.5	282	45	239.2	19.7	8.3	240
BMH 704, 705, 717										
All Chemistry Reagents	7	344.1	44.7	13.0	346	7	286.3	41.0	14.3	275
Chiron Diagnostics 550 Express										
Bayer (Express / Plus)	7	383.6	29.6	7.7	370	7	328.4	38.9	11.8	328
All Chemistry Reagents	8	379.8	29.5	7.8	370	9	316.1	41.8	13.2	317
Clinical Data ATAC 1500,2000,6000										
Clinical Data	5	336.0	33.8	10.1	319	5	276.8	39.9	14.4	280
Clinical Data ATAC 8000										
Clinical Data	44	306.1	37.4	12.2	300	44	261.6	34.7	13.3	260
Dade Analyst										
Dade Behring	5	342.8	27.5	8.0	331	5	283.0	22.5	7.9	271
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	76	334.6	33.7	10.1	333	73	280.6	23.3	8.3	280
Olympus AU										
Olympus	9	321.8	36.7	11.4	318	9	278.1	34.4	12.4	270
Polymedco Poly-Chem System										
Polymedco	5	289.6	18.5	6.4	288	6	234.2	20.5	8.8	238
Roche Cobas Fara/Mira/Bio										
DCL	11	304.1	36.0	11.8	316	13	249.5	40.1	16.1	251
Roche COBAS	48	283.0	28.9	10.2	280	48	239.2	27.2	11.4	238
ThermoDMA	5	332.6	21.3	6.4	332	5	289.4	11.8	4.1	284
ThermoTrace	5	334.4	17.0	5.1	335	5	277.4	23.2	8.4	270
All Chemistry Reagents	76	295.2	34.1	11.5	297	78	247.6	32.0	12.9	246
Roche Integra										
Roche Integra	28	317.5	27.5	8.7	316	28	272.5	20.8	7.6	274
Technicon RA,XT,OPERA										
All Chemistry Reagents	6	306.7	23.1	7.5	317	5	272.4	20.4	7.5	271
VITROS 250,350,500,700,750,950										
VITROS	53	260.2	23.3	8.9	258	52	225.6	21.6	9.6	223

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>
All Hitachi Instruments	8	278.9	12.6	4.5	280
All VITROS Instruments	55	220.7	14.6	6.6	220
All Method	520	264.2	31.8	12.0	265
Abaxis Piccolo					
Abaxis Piccolo	29	225.8	13.9	6.1	224
Abbott Aeroset					
Abbott Aeroset	5	289.2	25.2	8.7	297
Abbott Architect					
Abbott Architect	6	276.7	19.9	7.2	284
Alfa Wassermann ACE/NexCT/Alera					
Alfa Wassermann	22	287.9	19.3	6.7	296
Alfa Wassermann - New	60	281.2	16.8	6.0	281
All Chemistry Reagents	83	283.7	18.5	6.5	282
Beckman Synchron LX/PRo/DxC					
Beckman	13	250.2	15.1	6.0	253
All Chemistry Reagents	14	248.7	15.5	6.2	253
Beckman Synchron					
Beckman	40	247.3	12.1	4.9	247
Carolina Liquid Chemistries	7	252.3	12.0	4.8	257
All Chemistry Reagents	47	248.0	12.1	4.9	247
BMH 704, 705, 717					
All Chemistry Reagents	5	275.8	9.0	3.3	279
Chiron Diagnostics 550 Express					
Bayer (Express / Plus)	7	328.4	21.4	6.5	327
All Chemistry Reagents	9	322.1	23.3	7.2	321
Clinical Data ATAC 1500,2000,6000					
Clinical Data	5	277.2	39.7	14.3	289
Clinical Data ATAC 8000					
Clinical Data	44	267.1	29.0	10.9	269
Dade Analyst					
Dade Behring	5	293.4	16.9	5.7	290
Dade Dimension/AR/ES/RxL/Xpand					
Dade Behring	75	291.7	22.5	7.7	289
Olympus AU					
Olympus	9	263.6	22.6	8.6	265
Polymedco Poly-Chem System					
Polymedco	5	239.6	15.1	6.3	238
Roche Cobas Fara/Mira/Bio					
DCL	11	256.2	18.3	7.2	257
Roche COBAS	48	246.5	21.3	8.6	248
ThermoDMA	5	287.6	15.4	5.3	290
ThermoTrace	5	282.6	13.4	4.7	288
All Chemistry Reagents	76	254.0	23.7	9.3	255
Roche Integra					
Roche Integra	28	280.8	18.3	6.5	282
Technicon RA,XT,OPERA					
All Chemistry Reagents	6	277.5	16.2	5.8	272
VITROS 250,350,500,700,750,950					
VITROS	52	221.0	14.5	6.5	220

AST (SGOT) (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	11	43.9	4.6	10.4	43	11	102.4	8.7	8.5	102
All Cholestech methods	14	71.1	11.0	15.4	73	14	180.2	25.0	13.9	179
All Hitachi Instruments	9	45.6	5.1	11.1	44	10	105.3	8.8	8.4	109
All Mainframe VITROS Instruments	53	78.3	3.1	4.0	79	54	164.6	6.7	4.1	164
Clinical Data ATAC 8000/Envoy Instruments	46	41.6	3.8	9.1	43	48	93.5	6.9	7.4	94
All Method	553	55.9	18.8	33.6	47	556	121.7	32.8	26.9	107
Abaxis Piccolo, All Chemistry Reagents										
Abaxis Piccolo	29	50.0	2.8	5.6	50	27	108.0	5.0	4.6	108
Abbott Aeroset, All Chemistry Reagents										
Abbott Aeroset	5	43.0	3.5	8.2	43	5	100.4	6.7	6.7	102
Abbott Architect, All Chemistry Reagents										
Abbott Architect	6	44.7	5.5	12.3	46	6	104.0	10.4	10.0	107
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	19	47.7	3.8	7.9	47	19	106.9	5.3	4.9	107
Alfa Wassermann - New	65	46.7	3.6	7.6	47	66	104.0	5.9	5.7	105
All Chemistry Reagents	84	46.9	3.6	7.7	47	85	104.6	5.9	5.6	105
Beckman Synchron LX/PRo/DxC										
Beckman	13	45.6	2.5	5.5	45	13	104.7	3.9	3.7	104
All Chemistry Reagents	14	45.9	2.7	5.8	46	14	105.3	4.4	4.1	105
Beckman Synchron										
Beckman	41	43.0	3.2	7.4	44	41	99.8	6.1	6.1	102
Carolina Liquid Chemistries	7	45.7	4.9	10.6	48	7	106.1	7.5	7.1	106
All Chemistry Reagents	48	43.4	3.5	8.2	44	48	100.7	6.6	6.6	102
BMH 704, 705, 717										
All Chemistry Reagents	6	46.7	5.7	12.2	47	7	104.0	10.2	9.8	105
Chiron Diagnostics 550 Express										
Bayer (Express / Plus)	6	39.0	1.5	4.0	40	7	94.6	4.1	4.3	95
All Chemistry Reagents	8	40.8	4.7	11.6	40	9	98.3	8.9	9.0	96
Cholestech LDX - waived										
Cholestech LDX	13	72.8	9.3	12.8	73	13	183.3	23.1	12.6	179
Clinical Data ATAC 8000										
Clinical Data	42	41.2	3.7	8.9	42	44	92.4	6.1	6.6	94
All Chemistry Reagents	43	41.3	3.7	8.9	42	45	92.7	6.3	6.8	94
Dade Analyst										
Dade Behring	5	104.2	6.5	6.2	105	5	195.8	9.4	4.8	195
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	74	87.7	3.7	4.2	88	75	171.7	6.0	3.5	172
Olympus AU										
Olympus	9	39.0	2.2	5.7	39	9	92.2	4.6	5.0	93
Polymedco Poly-Chem System										
Polymedco	7	48.7	3.9	7.9	50	7	114.3	9.4	8.2	116
Roche Cobas Fara/Mira/Bio										
DCL	13	41.8	3.8	9.2	42	13	95.2	6.1	6.5	95
Roche COBAS	53	43.6	3.3	7.5	44	53	100.8	6.1	6.1	102
Thermo Infinity	7	44.7	4.3	9.6	45	7	100.4	5.2	5.1	103
All Chemistry Reagents	84	43.4	3.7	8.4	44	84	99.7	6.8	6.8	101
Roche Integra										
Roche Integra	28	46.6	3.4	7.4	47	28	110.2	6.9	6.3	111
Technicon RA,XT,OPERA										
All Chemistry Reagents	6	47.3	6.0	12.6	51	6	110.5	12.0	10.8	112
VITROS 250,350,500,700,750,950										
VITROS	52	78.4	3.1	4.0	79	53	164.7	6.7	4.0	164
VITROS DT/DTII/DT60										
VITROS	6	105.8	3.7	3.5	106	6	200.2	3.2	1.6	200

AST (SGOT) (IU/L)

<u>Instrument/Reagent</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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	10	186.2	12.7	6.8	190	10	181.5	11.8	6.5	187
All Cholestech methods	14	393.5	13.0	3.3	400	13	375.8	33.0	8.8	400
All Hitachi Instruments	10	194.5	17.0	8.8	204	10	185.5	16.1	8.7	187
All Mainframe VITROS Instruments	53	314.8	11.6	3.7	314	53	297.5	10.0	3.4	300
Clinical Data ATAC 8000/Envoy Instruments	48	172.3	14.8	8.6	175	48	167.0	12.5	7.5	169
All Method	555	227.7	68.6	30.1	194	554	217.4	61.1	28.1	188
Abaxis Piccolo										
Abaxis Piccolo	28	189.0	9.2	4.9	189	28	182.3	8.7	4.7	183
Abbott Aeroset										
Abbott Aeroset	5	186.2	13.0	7.0	188	5	180.8	11.3	6.3	183
Abbott Architect										
Abbott Architect	5	186.2	13.9	7.5	190	5	182.2	13.6	7.4	189
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	19	192.6	11.2	5.8	193	19	188.5	11.0	5.8	190
Alfa Wassermann - New	66	188.4	11.1	5.9	191	66	184.0	10.2	5.5	186
All Chemistry Reagents	85	189.3	11.2	5.9	192	85	185.0	10.4	5.6	187
Beckman Synchron LX/PRO/DxC										
Beckman	13	193.1	7.8	4.1	192	13	186.9	6.4	3.4	186
All Chemistry Reagents	14	194.4	8.9	4.6	194	14	188.1	7.6	4.1	188
Beckman Synchron										
Beckman	41	184.0	11.7	6.4	187	41	178.2	9.6	5.4	179
Carolina Liquid Chemistries	6	201.0	6.8	3.4	205	7	192.7	12.6	6.5	192
All Chemistry Reagents	47	186.2	12.5	6.7	189	48	180.3	11.2	6.2	181
All Chemistry Reagents	7	192.7	17.7	9.2	194	7	184.9	18.7	10.1	186
Chiron Diagnostics 550 Express										
Bayer (Express / Plus)	7	172.6	9.3	5.4	174	7	171.3	8.9	5.2	174
All Chemistry Reagents	9	179.7	17.0	9.5	176	9	177.9	16.5	9.3	175
Cholestech LDX - waived										
Cholestech LDX	13	395.2	11.8	3.0	400	12	380.0	30.6	8.1	400
Clinical Data ATAC 8000										
Clinical Data	44	170.3	13.3	7.8	175	44	165.1	10.9	6.6	167
All Chemistry Reagents	45	170.8	13.6	7.9	175	45	165.7	11.3	6.8	167
Dade Analyst										
Dade Behring	5	364.4	15.4	4.2	362	5	326.2	15.1	4.6	333
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	75	327.0	10.6	3.2	329	74	304.8	10.8	3.6	305
Olympus AU										
Olympus	9	168.8	8.9	5.3	170	9	164.2	7.2	4.4	166
Polymedco Poly-Chem System										
Polymedco	7	212.1	14.4	6.8	211	7	203.1	15.5	7.6	205
Roche Cobas Fara/Mira/Bio										
DCL	13	173.3	13.2	7.6	176	13	169.2	12.2	7.2	168
Roche COBAS	53	185.0	11.7	6.3	186	53	180.4	10.7	5.9	182
Thermo Infinity	7	183.9	11.4	6.2	182	7	175.9	8.7	5.0	178
All Chemistry Reagents	84	182.3	13.7	7.5	184	84	177.4	12.1	6.8	180
Roche Integra										
Roche Integra	28	204.3	13.5	6.6	207	28	197.2	12.3	6.3	201
Technicon RA,XT,OPERA										
All Chemistry Reagents	6	205.7	20.6	10.0	206	5	201.8	17.8	8.8	203
VITROS 250,350,500,700,750,950										
VITROS	52	315.0	11.6	3.7	314	52	297.7	9.9	3.3	300
VITROS DT/DTII/DT60										
VITROS	6	389.5	6.8	1.8	388	6	360.8	11.5	3.2	364

AST (SGOT) (IU/L)**Specimen CH-15**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	11	126.7	14.3	11.3	128
All Cholestech methods	9	286.6	27.8	9.7	292
All Hitachi Instruments	10	126.5	12.2	9.6	129
All Mainframe VITROS Instruments	53	215.8	9.2	4.3	217
Clinical Data ATAC 8000/Envoy Instruments	48	115.7	11.8	10.2	116
All Method	552	156.2	54.8	35.1	130
Abaxis Piccolo					
Abaxis Piccolo	29	125.3	9.6	7.7	126
Abbott Aeroset					
Abbott Aeroset	5	122.6	10.7	8.7	125
Abbott Architect					
Abbott Architect	6	130.2	16.9	13.0	133
Alfa Wassermann ACE/NexCT/Alera					
Alfa Wassermann	19	130.3	9.3	7.1	131
Alfa Wassermann - New	66	126.6	9.9	7.8	128
All Chemistry Reagents	85	127.4	9.8	7.7	130
Beckman Synchron LX/PRO/DxC					
Beckman	13	130.0	7.0	5.4	129
All Chemistry Reagents	14	130.9	7.6	5.8	130
Beckman Synchron					
Beckman	41	122.4	9.3	7.6	126
Carolina Liquid Chemistries	7	132.1	10.6	8.0	135
All Chemistry Reagents	48	123.8	10.0	8.1	127
All Chemistry Reagents	7	126.0	13.7	10.9	129
Chiron Diagnostics 550 Express					
Bayer (Express / Plus)	7	110.6	7.3	6.6	107
All Chemistry Reagents	9	115.7	12.5	10.8	111
Cholestech LDX - waived					
Cholestech LDX	14	322.0	44.4	13.8	316
Clinical Data ATAC 8000					
Clinical Data	44	113.9	10.4	9.1	115
All Chemistry Reagents	45	114.3	10.7	9.4	115
Dade Analyst					
Dade Behring	5	274.6	12.1	4.4	273
Dade Dimension/AR/ES/RxL/Xpand					
Dade Behring	75	248.1	9.0	3.6	249
Olympus AU					
Olympus	9	111.0	6.9	6.2	111
Polymedco Poly-Chem System					
Polymedco	7	141.1	12.7	9.0	143
Roche Cobas Fara/Mira/Bio					
DCL	13	116.1	11.9	10.2	114
Roche COBAS	53	122.3	9.2	7.5	123
Thermo Infinity	7	124.6	8.3	6.7	126
All Chemistry Reagents	84	121.3	9.9	8.1	122
Roche Integra					
Roche Integra	28	134.7	10.2	7.6	136
Technicon RA,XT,OPERA					
All Chemistry Reagents	6	133.8	18.1	13.6	141
VITROS 250,350,500,700,750,950					
VITROS	52	216.1	9.1	4.2	217
VITROS DT/DTII/DT60					
VITROS	6	296.7	9.8	3.3	297

Creatine Kinase (IU/L)**Specimen CH-15**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Hitachi Instruments	7	431.9	41.6	9.6	423
All Method	250	458.9	48.8	10.6	466
Alfa Wassermann ACE/NexCT/Alera					
Alfa Wassermann	6	472.0	14.6	3.1	479
Alfa Wassermann - New	28	454.6	21.0	4.6	456
All Chemistry Reagents	34	457.7	20.9	4.6	457
Beckman Synchron LX/PRo/DxC					
Beckman	9	538.2	13.8	2.6	542
Beckman Synchron					
Beckman	26	518.2	14.9	2.9	520
All Chemistry Reagents	28	513.5	22.7	4.4	519
BMH 704, 705, 717					
All Chemistry Reagents	5	431.0	36.7	8.5	423
Clinical Data ATAC 8000					
Clinical Data	20	478.0	22.2	4.6	476
All Chemistry Reagents	21	477.3	21.9	4.6	476
Dade Dimension/AR/ES/RxL/Xpand					
Dade Behring	47	469.3	15.6	3.3	467
Olympus AU					
Olympus	6	469.0	7.3	1.6	473
Roche Cobas Fara/Mira/Bio					
Roche COBAS	17	421.6	14.2	3.4	423
All Chemistry Reagents	29	434.6	25.1	5.8	426
Roche Integra					
Roche Integra	14	481.0	11.4	2.4	482
VITROS 250,350,500,700,750,950					
VITROS	26	363.2	22.7	6.3	366

GGT (IU/L)

<u><i>Instrument/Reagent</i></u>	Specimen CH-11					Specimen CH-12				
	<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>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>
All Method	186	61.1	14.1	23.1	59	185	109.8	26.5	24.1	108
Abaxis Piccolo										
Abaxis Piccolo	6	56.5	0.8	1.5	57	6	105.2	2.9	2.8	107
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	8	46.2	3.9	8.4	47	8	81.0	7.5	9.3	84
Alfa Wassermann - New	18	48.8	3.1	6.3	49	18	84.6	3.5	4.1	85
All Chemistry Reagents	26	48.0	3.5	7.3	48	26	83.5	5.2	6.2	85
Beckman Synchron LX/PRo/DxC										
Beckman	8	66.8	1.8	2.7	66	8	123.0	4.1	3.3	125
All Chemistry Reagents	9	64.4	7.1	11.1	66	9	118.2	14.8	12.6	123
Beckman Synchron										
Beckman	23	65.0	2.3	3.5	65	23	118.9	3.3	2.7	120
All Chemistry Reagents	27	62.0	7.8	12.5	65	27	113.1	14.6	12.9	119
Clinical Data ATAC 8000										
Clinical Data	6	49.5	3.3	6.6	51	6	91.8	4.1	4.5	94
All Chemistry Reagents	7	50.4	3.9	7.7	51	7	93.0	4.9	5.2	94
Dade Analyst										
Dade Behring	5	60.4	4.7	7.8	60	5	113.6	1.5	1.3	113
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	29	76.1	2.2	2.9	76	29	131.2	4.2	3.2	131
Olympus AU										
Olympus	6	49.5	2.4	4.9	51	6	89.2	4.3	4.8	92
Roche Cobas Fara/Mira/Bio										
DCL	7	58.6	5.9	10.1	61	7	105.4	11.5	11.0	108
Roche COBAS	19	44.8	2.7	6.0	45	19	81.9	3.9	4.8	82
All Chemistry Reagents	28	48.5	7.0	14.5	46	28	88.1	12.2	13.8	83
Roche Integra										
Roche Integra	7	54.0	1.4	2.6	54	7	99.3	2.7	2.7	100
VITROS 250,350,500,700,750,950										
VITROS	17	87.2	3.8	4.4	87	17	165.9	6.5	3.9	166

Amylase (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Beckman Instruments	23	99.3	7.7	7.8	102	26	143.8	88.2	61.3	115
All Method	181	117.8	34.0	28.9	127	191	192.6	67.1	34.9	202
Abaxis Piccolo										
Abaxis Piccolo	6	132.8	2.1	1.6	132	6	203.2	6.0	3.0	202
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	24	142.7	8.0	5.6	144	24	232.5	11.3	4.9	232
All Chemistry Reagents	25	142.8	7.9	5.5	144	25	232.8	11.2	4.8	232
Beckman Synchron LX/PRo/DxC										
Beckman	7	101.3	7.5	7.4	103	7	114.9	4.1	3.6	115
Beckman Synchron										
Beckman	16	98.4	7.9	8.0	100	16	111.7	6.6	5.9	112
All Chemistry Reagents	19	120.8	53.6	44.3	102	19	154.5	101.7	65.9	115
Clinical Data ATAC 8000										
All Chemistry Reagents	7	261.7	14.9	5.7	259	7	319.4	11.4	3.6	313
Dade Analyst										
Dade Behring	4	-	-	-	173	5	271.8	12.2	4.5	268
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	32	152.5	4.0	2.6	152	32	254.4	6.2	2.4	254
Olympus AU										
Olympus	6	117.7	9.6	8.2	122	6	190.8	14.2	7.5	198
Roche Cobas Fara/Mira/Bio										
Roche COBAS	7	108.7	2.7	2.5	109	7	165.7	3.7	2.3	163
All Chemistry Reagents	16	117.8	11.4	9.7	113	16	186.1	25.2	13.5	185
Roche Integra										
Roche Integra	11	131.2	2.5	1.9	131	11	202.5	3.4	1.7	202
VITROS 250,350,500,700,750,950										
VITROS	19	64.5	4.9	7.6	66	19	104.1	6.8	6.5	104
All Chemistry Reagents	20	64.4	4.8	7.4	66	20	104.0	6.6	6.4	104
VITROS DT/DTII/DT60										
VITROS	23	72.9	8.0	11.0	73	23	125.8	9.0	7.2	124

<u>Instrument/Reagent</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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Beckman Instruments	26	229.5	135.9	59.2	185	26	209.0	131.0	62.7	166
All Method	188	304.7	111.9	36.7	323	188	288.1	101.7	35.3	306
Abaxis Piccolo										
Abaxis Piccolo	6	328.5	6.0	1.8	332	6	310.5	6.0	1.9	308
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	23	380.5	17.8	4.7	376	24	358.9	18.9	5.3	358
All Chemistry Reagents	24	380.6	17.4	4.6	379	25	359.3	18.7	5.2	358
Beckman Synchron LX/PRo/DxC										
Beckman	7	185.3	7.0	3.8	185	7	166.6	5.0	3.0	168
Beckman Synchron										
Beckman	16	179.8	8.0	4.5	182	16	161.1	7.6	4.7	162
All Chemistry Reagents	19	245.7	156.8	63.8	183	19	224.7	151.3	67.3	163
Clinical Data ATAC 8000										
All Chemistry Reagents	6	534.5	35.2	6.6	522	5	471.0	18.4	3.9	475
Dade Analyst										
Dade Behring	5	431.4	15.5	3.6	431	5	390.8	19.5	5.0	398
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	32	407.2	9.8	2.4	406	32	389.6	9.7	2.5	390
Olympus AU										
Olympus	5	311.4	10.3	3.3	316	6	289.5	24.6	8.5	301
Roche Cobas Fara/Mira/Bio										
Roche COBAS	7	262.6	3.9	1.5	263	7	248.1	7.2	2.9	245
All Chemistry Reagents	15	295.2	44.6	15.1	269	15	279.5	44.2	15.8	260
Roche Integra										

Amylase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13 (cont'd)					Specimen CH-14 (cont'd)				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Roche Integra	11	322.5	5.5	1.7	323	11	305.4	4.3	1.4	306
VITROS 250,350,500,700,750,950										
VITROS	19	171.8	10.8	6.3	172	19	163.5	8.8	5.4	163
All Chemistry Reagents	20	171.8	10.5	6.1	172	20	163.6	8.5	5.2	166
VITROS DT/DTII/DT60										
VITROS	23	170.5	11.3	6.6	172	23	179.0	10.7	6.0	181
Specimen CH-15										
All Beckman Instruments	26	202.2	99.4	49.1	172					
All Method	186	239.5	84.1	35.1	253					
Abaxis Piccolo, All Chemistry Reagents										
Abaxis Piccolo	6	256.5	5.1	2.0	257					
Alfa Wassermann ACE/NexCT/Alera										
Alfa Wassermann	24	294.7	14.2	4.8	295					
All Chemistry Reagents	25	294.8	14.0	4.7	295					
Beckman Synchron LX/PRo/DxC										
Beckman	7	171.3	5.9	3.4	173					
Beckman Synchron										
Beckman	16	165.4	10.4	6.3	170					
All Chemistry Reagents	19	213.6	114.9	53.8	171					
Clinical Data ATAC 8000										
All Chemistry Reagents	5	467.6	27.7	5.9	460					
Dade Analyst										
Dade Behring	5	343.6	13.4	3.9	347					
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	32	312.2	8.0	2.6	311					
Olympus AU										
Olympus	5	239.4	7.8	3.3	244					
Roche Cobas Fara/Mira/Bio										
Roche COBAS	7	207.7	4.5	2.2	208					
All Chemistry Reagents	15	230.1	28.8	12.5	215					
Roche Integra										
Roche Integra	11	254.1	3.3	1.3	254					
VITROS 250,350,500,700,750,950										
VITROS	19	131.1	6.4	4.9	133					
All Chemistry Reagents	20	131.2	6.3	4.8	133					
VITROS DT/DTII/DT60										
VITROS	23	134.0	9.8	7.3	133					

Lactate Dehydrogenase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Hitachi Instruments	7	311.0	37.4	12.0	301
All Mainframe VITROS Instruments	16	1180.3	31.0	2.6	1176
All Method	153	296.9	30.0	10.1	298
Alfa Wassermann ACE/NexCT/Alera					
Alfa Wassermann	5	251.2	8.9	3.5	252
Alfa Wassermann - New	13	248.5	7.8	3.1	247
All Chemistry Reagents	18	249.2	7.9	3.2	248
Beckman Synchron LX/PRo/DxC					
Beckman	6	294.7	6.9	2.3	299
Beckman Synchron					
Beckman	21	288.5	8.8	3.1	287
All Chemistry Reagents	24	285.1	12.7	4.5	287
BMH 704, 705, 717					
All Chemistry Reagents	5	310.4	39.6	12.8	301
Clinical Data ATAC 8000					
Clinical Data	9	332.6	24.9	7.5	332
All Chemistry Reagents	10	335.4	25.1	7.5	335
Dade Dimension/AR/ES/RxL/Xpand					
Dade Behring	34	303.8	14.6	4.8	304
Olympus AU					
Olympus	6	315.7	12.3	3.9	320
Roche Cobas Fara/Mira/Bio					
DCL	5	266.8	25.2	9.4	272
Roche COBAS	17	283.5	11.8	4.2	285
All Chemistry Reagents	24	282.7	11.8	4.2	285
Roche Integra					
Roche Integra	10	342.3	7.0	2.1	342
VITROS 250,350,500,700,750,950					
VITROS	16	1180.3	31.0	2.6	1176

Lipase (IU/L)

Specimen CH-11

Specimen CH-12

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	40	162.7	123.2	75.7	272	40	63.1	50.6	80.1	100
Beckman Synchron LX/PRo/DxC										
Beckman	5	49.4	2.6	5.3	50	5	20.4	2.7	13.2	21
Dade Dimension/AR/ES/RxL/Xpand										
Dade Behring	18	296.5	17.1	5.8	298	18	117.2	12.5	10.6	122
Roche Integra										
Roche Integra	6	51.0	2.1	4.1	52	6	15.2	1.2	7.7	16
VITROS 250,350,500,700,750,950										
VITROS	6	812.7	44.7	5.5	809	7	139.9	5.9	4.2	138

Cortisol (mcg/dL)

Specimen CH-11

Specimen CH-12

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	19	14.43	1.47	10.2	14.4	19	7.23	1.13	15.6	7.4
Beckman ACCESS	6	15.37	0.72	4.7	15.5	6	7.83	0.57	7.3	8.1

Specimen CH-13

Specimen CH-14

All Method	19	14.63	2.43	16.6	14.0	19	10.18	2.39	23.5	9.7
Beckman ACCESS	6	14.90	1.34	9.0	15.3	6	10.35	0.93	9.0	10.3

Specimen CH-15

All Method	19	22.66	5.48	24.2	21.5
Beckman ACCESS	6	22.52	0.81	3.6	22.6

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	19	51.46	3.00	5.8	51.3	19	59.73	3.56	6.0	59.5
All Method	80	46.90	4.07	8.7	46.0	83	51.05	7.31	14.3	49.1
Abbott AxSYM	15	51.88	2.95	5.7	51.3	15	59.94	3.85	6.4	59.5
Abbott IMx	10	47.63	5.81	12.2	46.5	10	48.68	3.37	6.9	48.9
Beckman ACCESS	18	43.85	1.42	3.2	44.0	18	42.98	1.46	3.4	43.0
Dade Dimension/AR/ES/RxL/Xpand	6	42.23	2.57	6.1	43.2	6	50.47	2.19	4.3	52.2
DPC Coat-a-Count	11	45.14	1.44	3.2	45.7	11	48.51	4.08	8.4	48.0
TOSOH AIA	6	46.18	2.90	6.3	46.0	6	46.55	4.19	9.0	47.0

Specimen CH-13**Specimen CH-14**

All Abbott Instruments	19	51.98	2.74	5.3	51.3	19	56.66	4.09	7.2	56.3
All Method	81	46.55	4.04	8.7	45.5	83	49.35	6.26	12.7	47.3
Abbott IMx	15	52.19	2.86	5.5	51.3	15	56.79	4.50	7.9	56.5
Beckman ACCESS	10	45.83	3.46	7.5	46.0	10	47.62	3.49	7.3	48.0
Dade Dimension/AR/ES/RxL/Xpand	18	43.46	1.09	2.5	43.3	18	43.07	1.35	3.1	43.0
DPC Coat-a-Count	6	43.42	2.59	6.0	45.3	6	48.20	2.14	4.4	49.6
TOSOH AIA	11	44.85	1.41	3.1	45.0	11	46.45	1.35	2.9	47.0
TOSOH ST AIA	6	43.85	2.34	5.3	45.0	6	45.53	2.15	4.7	47.0

Specimen CH-15

All Abbott Instruments	18	44.02	2.75	6.2	43.4
All Method	80	43.68	3.23	7.4	43.4
Abbott IMx	15	45.15	4.68	10.4	43.4
Beckman ACCESS	10	44.81	2.73	6.1	45.1
Dade Dimension/AR/ES/RxL/Xpand	18	44.16	1.58	3.6	44.0
DPC Coat-a-Count	6	37.97	2.36	6.2	39.2
TOSOH AIA	11	42.70	1.37	3.2	43.0
TOSOH ST AIA	6	44.23	2.74	6.2	44.3

T Uptake (uptake units)**Specimen CH-11****Specimen CH-12**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	44	0.466	0.071	15.3	0.45	44	0.334	0.156	46.6	0.28
Abbott AxSYM	9	0.453	0.026	5.7	0.46	9	0.277	0.020	7.2	0.27
Abbott IMx	30	0.441	0.036	8.2	0.45	28	0.281	0.026	9.1	0.28
Roche Elecsys 1010/2010	5	0.640	0.029	4.6	0.65	5	0.752	0.034	4.5	0.76

Specimen CH-13**Specimen CH-14**

All Method	44	0.463	0.082	17.8	0.44	44	0.380	0.139	36.5	0.34
Abbott AxSYM	9	0.446	0.027	6.2	0.43	9	0.337	0.025	7.4	0.34
Abbott IMx	30	0.433	0.035	8.1	0.44	29	0.336	0.035	10.4	0.33
Roche Elecsys 1010/2010	5	0.670	0.044	6.5	0.68	5	0.748	0.035	4.7	0.75

Specimen CH-15

All Method	44	0.598	0.036	6.1	0.60
Abbott AxSYM	9	0.613	0.029	4.7	0.62
Abbott IMx	30	0.599	0.036	5.9	0.61
Roche Elecsys 1010/2010	5	0.566	0.038	6.8	0.58

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	12	2.62	0.14	5.2	2.7	12	0.89	0.12	13.9	0.9
All Method	74	2.84	0.59	20.7	2.7	74	1.02	0.30	29.5	1.0
Abbott AxSYM	5	2.60	0.16	6.1	2.6	5	0.86	0.15	17.6	0.9
Abbott IMx	7	2.64	0.13	4.8	2.7	7	0.91	0.11	11.7	0.9
Abbott IMx-Tot T3 reformulated	11	2.76	0.22	8.1	2.7	10	0.90	0.11	11.7	0.9
Beckman ACCESS	11	2.51	0.26	10.3	2.4	11	1.05	0.17	16.1	1.0
bioMerieux Vitek, Mini Vidas	7	3.06	1.52	49.7	3.1	7	1.16	0.57	49.6	1.1
DPC Coat-a-Count	6	2.18	0.10	4.5	2.2	6	0.68	0.08	11.0	0.7
DPC Immulite/1000	7	3.20	0.26	8.1	3.3	7	1.03	0.15	14.5	1.1

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	12	2.38	0.18	7.6	2.4	12	1.32	0.12	9.2	1.3
All Method	73	2.61	0.47	18.2	2.5	75	1.52	0.39	25.4	1.4
Abbott AxSYM	5	2.36	0.22	9.3	2.5	5	1.32	0.16	12.4	1.4
Abbott IMx	7	2.39	0.17	7.0	2.4	7	1.33	0.10	7.2	1.3
Abbott IMx-Tot T3 reformulated	11	2.54	0.14	5.4	2.5	11	1.34	0.13	9.6	1.3
Beckman ACCESS	11	2.32	0.19	8.1	2.3	11	1.45	0.16	11.2	1.4
bioMerieux Vitek, Mini Vidas	7	2.96	1.39	47.0	2.8	7	1.79	0.80	44.6	1.7
DPC Coat-a-Count	6	2.10	0	0	2.1	6	1.13	0.05	4.6	1.1
DPC Immulite/1000	7	2.90	0.17	6.0	2.9	7	1.64	0.17	10.5	1.6

<u>Method</u>	Specimen CH-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	12	3.93	0.30	7.6	3.9
All Method	74	4.18	0.83	19.9	4.0
Abbott AxSYM	5	3.74	0.27	7.2	3.8
Abbott IMx	7	4.07	0.25	6.1	4.0
Abbott IMx-Tot T3 reformulated	11	4.28	0.23	5.4	4.3
Beckman ACCESS	11	3.55	0.39	10.8	3.4
bioMerieux Vitek, Mini Vidas	7	4.10	1.93	47.1	3.9
DPC Coat-a-Count	6	3.50	0.11	3.1	3.5
DPC Immulite/1000	7	4.13	0.17	4.1	4.2

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	33	10.51	3.93	37.4	8.9	33	4.18	1.40	33.6	3.9
Abbott AxSYM	5	11.56	0.61	5.3	11.5	5	4.28	0.30	6.9	4.4
Beckman ACCESS	7	8.56	0.56	6.6	8.5	7	3.93	0.26	6.7	3.9
DPC Immulite/1000	7	6.24	0.85	13.6	6.4	7	2.46	0.42	17.2	2.4

Thyroxine (mcg/dL)**Specimen CH-11****Specimen CH-12**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All DPC Immulite Instruments	8	7.89	0.69	8.7	8.3	8	3.40	0.57	16.8	3.6
All Method	158	8.55	1.05	12.3	8.4	161	4.26	0.74	17.3	4.2
Abbott AxSYM	18	8.05	0.50	6.2	8.3	18	4.14	0.54	13.1	4.1
Abbott IMx	42	8.05	0.54	6.7	8.0	42	4.35	0.47	10.8	4.3
Beckman ACCESS	13	10.54	0.85	8.1	10.3	13	5.23	0.55	10.5	5.2
bioMerieux Vitek, Mini Vidas	6	7.87	0.56	7.1	8.2	7	4.46	0.30	6.8	4.6
Dade Dimension/AR/ES/RxL/Xpand	27	8.74	0.66	7.5	8.8	27	3.97	0.46	11.6	4.0
DPC Coat-a-Count	7	7.49	0.75	10.0	7.1	7	3.19	0.19	5.9	3.2
DPC Immulite/1000	7	8.04	0.57	7.1	8.3	7	3.50	0.54	15.3	3.6
Roche Elecsys 1010/2010	6	7.70	0.39	5.1	7.8	6	3.65	0.21	5.7	3.8
TOSOH AIA	11	10.37	0.97	9.3	10.6	11	4.84	0.45	9.4	4.9
TOSOH ST AIA	7	8.51	0.68	8.0	8.7	7	4.27	0.53	12.4	4.1

Specimen CH-13**Specimen CH-14**

All DPC Immulite Instruments	8	7.25	0.41	5.7	7.2	7	4.46	0.47	10.6	4.4
All Method	159	8.05	0.97	12.0	7.9	156	5.32	0.71	13.3	5.3
Abbott AxSYM	18	7.75	0.44	5.7	7.7	18	5.12	0.36	7.1	5.2
Abbott IMx	41	7.52	0.48	6.4	7.4	42	5.29	0.42	7.9	5.3
Beckman ACCESS	13	9.78	0.79	8.1	9.4	13	6.54	0.70	10.7	6.2
bioMerieux Vitek, Mini Vidas	7	7.81	0.27	3.4	7.8	7	5.51	0.32	5.9	5.6
Dade Dimension/AR/ES/RxL/Xpand	27	8.14	0.60	7.4	8.1	27	5.07	0.45	8.9	5.0
DPC Coat-a-Count	7	6.80	0.51	7.5	6.6	7	4.16	0.52	12.6	4.0
DPC Immulite/1000	7	7.31	0.40	5.4	7.2	6	4.52	0.49	10.8	4.5
Roche Elecsys 1010/2010	6	7.13	0.29	4.1	7.3	6	4.65	0.22	4.7	4.7
TOSOH AIA	11	9.65	0.91	9.5	9.6	11	6.22	0.61	9.9	6.3
TOSOH ST AIA	7	8.59	0.41	4.8	8.8	7	5.71	0.67	11.8	5.7

Specimen CH-15

All DPC Immulite Instruments	7	11.30	0.68	6.0	11.5
All Method	156	12.20	1.45	11.9	12.2
Abbott AxSYM	18	11.93	0.88	7.4	11.7
Abbott IMx	42	11.47	0.96	8.3	11.3
Beckman ACCESS	13	13.32	1.13	8.5	12.9
bioMerieux Vitek, Mini Vidas	6	10.07	0.62	6.1	10.2
Dade Dimension/AR/ES/RxL/Xpand	27	12.84	0.64	5.0	12.8
DPC Coat-a-Count	7	10.80	1.05	9.7	10.8
DPC Immulite/1000	6	11.50	0.46	4.0	11.8
Roche Elecsys 1010/2010	6	11.05	0.46	4.2	11.1
TOSOH AIA	11	14.64	1.52	10.4	14.6
TOSOH ST AIA	7	12.96	0.97	7.5	13.2

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	77	1.72	0.10	6.0	1.7	75	0.97	0.08	8.5	1.0
All Method	262	2.36	0.68	28.7	2.2	263	1.34	0.45	33.4	1.1
Abbott AxSYM	26	1.76	0.09	5.4	1.8	27	1.06	0.09	8.4	1.0
Abbott IMx	51	1.71	0.10	6.1	1.7	50	0.94	0.07	7.7	0.9
Beckman ACCESS	31	2.57	0.14	5.4	2.6	31	1.63	0.10	5.9	1.6
bioMerieux Vitek, Mini Vidas	30	1.86	0.11	6.1	1.8	30	0.95	0.06	6.6	0.9
Chiron Diagnostics ACS:180	5	2.32	0.41	17.6	2.1	5	1.46	0.29	19.7	1.5
Dade Dimension/AR/ES/RxL/Xpand	34	3.26	0.26	8.0	3.2	35	1.82	0.24	13.1	1.8
DPC Immulite/1000	22	2.15	0.09	4.2	2.2	22	1.07	0.08	7.9	1.1
Roche Elecsys 1010/2010	9	2.57	0.49	19.0	2.7	9	1.56	0.14	9.2	1.6
TOSOH AIA	22	3.33	0.20	5.9	3.4	23	1.89	0.18	9.3	1.9
TOSOH ST AIA	15	3.41	0.19	5.5	3.5	14	2.09	0.13	6.2	2.1
Specimen CH-13					Specimen CH-14					
All Abbott Instruments	78	1.48	0.09	5.9	1.5	79	1.12	0.10	9.1	1.1
All Method	262	2.21	0.73	33.0	2.0	263	1.63	0.55	33.9	1.4
Abbott AxSYM	27	1.51	0.08	5.1	1.5	28	1.17	0.10	8.3	1.2
Abbott IMx	51	1.46	0.09	5.9	1.5	51	1.08	0.09	8.3	1.1
Beckman ACCESS	31	2.48	0.16	6.3	2.4	30	1.94	0.12	6.4	1.9
bioMerieux Vitek, Mini Vidas	30	1.78	0.15	8.3	1.8	30	1.22	0.10	7.9	1.2
Chiron Diagnostics ACS:180	5	2.12	0.50	23.7	1.9	5	1.64	0.34	20.9	1.7
Dade Dimension/AR/ES/RxL/Xpand	34	3.27	0.24	7.4	3.3	35	2.36	0.24	10.0	2.4
DPC Immulite/1000	22	2.00	0.08	4.2	2.0	22	1.35	0.07	5.0	1.4
Roche Elecsys 1010/2010	9	2.54	0.11	4.4	2.6	9	1.86	0.19	10.1	1.9
TOSOH AIA	22	3.10	0.28	8.9	3.2	23	2.27	0.24	10.4	2.3
TOSOH ST AIA	14	3.26	0.15	4.5	3.3	15	2.47	0.14	5.7	2.5
Specimen CH-15										
All Abbott Instruments	78	2.00	0.12	6.1	2.0					
All Method	262	2.91	0.84	28.9	2.8					
Abbott AxSYM	27	1.94	0.10	5.2	1.9					
Abbott IMx	51	2.03	0.12	6.1	2.0					
Beckman ACCESS	30	3.00	0.18	6.0	3.0					
bioMerieux Vitek, Mini Vidas	30	2.51	0.20	8.0	2.5					
Chiron Diagnostics ACS:180	5	2.88	0.51	17.6	2.8					
Dade Dimension/AR/ES/RxL/Xpand	35	3.99	0.29	7.2	4.0					
DPC Immulite/1000	22	2.86	0.13	4.5	2.8					
Roche Elecsys 1010/2010	9	3.33	0.45	13.4	3.5					
TOSOH AIA	22	4.09	0.29	7.0	4.0					
TOSOH ST AIA	15	4.15	0.19	4.6	4.2					

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	172	4.91	0.24	4.9	4.9	172	1.15	0.07	6.2	1.2
All Method	468	5.33	0.52	9.8	5.3	472	1.25	0.14	11.0	1.2
Abbott AxSYM	46	5.01	0.40	8.0	4.9	46	1.14	0.12	10.4	1.1
Abbott IMx	131	4.91	0.22	4.5	4.9	131	1.16	0.07	5.6	1.2
Beckman ACCESS	47	5.39	0.29	5.4	5.4	46	1.23	0.06	4.5	1.2
bioMerieux Vitek, Mini Vidas	55	5.80	0.32	5.4	5.8	56	1.26	0.09	7.5	1.3
Chiron Diagnostics ACS:180	6	6.30	0.54	8.6	6.4	6	1.48	0.10	6.6	1.5
Dade Dimension/AR/ES/RxL/Xpand	58	5.14	0.42	8.1	5.2	58	1.20	0.09	7.4	1.2
DiaSorin (IncStar)	5	5.42	0.98	18.1	5.7	5	1.38	0.28	20.1	1.5
DPC Coat-a-Count	9	4.87	0.24	5.0	4.9	9	1.22	0.04	3.6	1.2
DPC Immulite/1000	27	5.65	0.35	6.3	5.7	27	1.30	0.09	6.7	1.3
Roche Elecsys 1010/2010	16	5.53	0.32	5.8	5.5	17	1.43	0.08	5.9	1.4
TOSOH AIA	36	5.93	0.27	4.6	5.9	36	1.42	0.07	5.3	1.4
TOSOH ST AIA	24	5.98	0.26	4.3	6.0	24	1.48	0.07	4.9	1.5

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	177	3.89	0.21	5.5	3.9	173	1.74	0.09	5.4	1.7
All Method	469	4.23	0.41	9.7	4.2	468	1.90	0.20	10.4	1.9
Abbott AxSYM	47	3.94	0.33	8.4	3.9	47	1.73	0.15	8.9	1.7
Abbott IMx	133	3.89	0.19	4.8	3.9	130	1.75	0.09	4.9	1.7
Beckman ACCESS	47	4.28	0.18	4.3	4.3	47	1.87	0.11	5.8	1.9
bioMerieux Vitek, Mini Vidas	55	4.50	0.24	5.4	4.5	55	1.94	0.11	5.8	1.9
Chiron Diagnostics ACS:180	6	4.97	0.60	12.1	4.8	6	2.30	0.24	10.3	2.2
Dade Dimension/AR/ES/RxL/Xpand	57	4.11	0.29	7.1	4.1	58	1.90	0.15	7.8	1.9
DiaSorin (IncStar)	5	4.56	0.85	18.6	4.8	5	2.00	0.37	18.4	2.2
DPC Coat-a-Count	9	4.06	0.27	6.7	4.1	9	1.86	0.11	6.1	1.9
DPC Immulite/1000	27	4.60	0.25	5.5	4.6	26	2.07	0.13	6.1	2.1
Roche Elecsys 1010/2010	16	4.37	0.21	4.9	4.3	16	2.08	0.10	5.0	2.1
TOSOH AIA	36	4.76	0.24	5.0	4.8	35	2.15	0.12	5.6	2.2
TOSOH ST AIA	24	4.82	0.19	4.0	4.8	24	2.18	0.10	4.6	2.2

<u>Method</u>	Specimen CH-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	175	7.57	0.43	5.7	7.6
All Method	466	8.12	0.70	8.6	8.1
Abbott AxSYM	47	7.65	0.65	8.5	7.7
Abbott IMx	131	7.58	0.40	5.3	7.6
Beckman ACCESS	47	8.10	0.39	4.9	8.1
bioMerieux Vitek, Mini Vidas	55	8.69	0.52	6.0	8.6
Chiron Diagnostics ACS:180	6	9.37	0.84	8.9	9.3
Dade Dimension/AR/ES/RxL/Xpand	58	8.12	0.66	8.2	8.0
DiaSorin (IncStar)	5	7.80	1.08	13.8	8.2
DPC Coat-a-Count	9	8.37	0.22	2.6	8.3
DPC Immulite/1000	26	8.42	0.47	5.5	8.4
Roche Elecsys 1010/2010	16	8.04	0.51	6.4	7.9
TOSOH AIA	36	9.00	0.38	4.2	9.0
TOSOH ST AIA	24	8.80	0.35	4.0	8.8

Fructosamine (mmol/L)

<u>Method</u>	Specimen FR-5					Specimen FR-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	14	1.659	0.508	30.6	1.90	14	1.292	0.458	35.5	1.50

Fructosamine (µmol/L)

<u>Method</u>	Specimen FR-5					Specimen FR-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	10	522.8	80.2	15.3	503	10	405.3	58.7	14.5	386

Cholesterol, Total (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	577	169.2	6.8	4.0	169	576	129.0	5.7	4.4	129
Abaxis Piccolo										
Abaxis Piccolo	14	176.9	3.1	1.8	177	14	134.8	3.4	2.5	134
Abbott Aeroset										
Abbott Aeroset	5	170.8	1.3	0.8	171	5	129.4	1.1	0.9	129
Abbott Architect										
Abbott Architect	6	168.2	1.5	0.9	168	6	127.2	2.0	1.6	127
Accu-Chek Instant Plus										
BMC Accu-Chek Instant/Plus	5	178.4	9.8	5.5	176	5	150.0	0	0	150
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	73	171.0	4.2	2.5	171	74	131.3	3.8	2.9	132
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	7	166.1	7.8	4.7	165	7	127.6	5.8	4.5	129
Beckman										
Beckman Synchron	36	167.5	2.9	1.7	168	34	128.3	2.1	1.6	129
Beckman Synchron LX/PRo/DxC	13	168.2	2.6	1.5	169	13	128.7	2.7	2.1	129
All Chemistry Instruments	49	167.7	2.8	1.7	168	47	128.4	2.3	1.8	129
Carolina Liquid Chemistries										
Beckman Synchron	8	160.1	3.7	2.3	159	8	125.8	3.2	2.5	127
All Chemistry Instruments	9	160.6	3.7	2.3	159	9	125.9	3.0	2.4	127
Cholestech LDX										
Cholestech LDX - waived	51	170.9	6.9	4.1	171	51	127.0	5.9	4.7	127
All Chemistry Instruments	55	171.0	6.7	3.9	171	55	127.0	5.8	4.6	127
Clinical Data										
Clinical Data ATAC 1500,2000,6000	6	162.2	7.6	4.7	160	6	128.3	7.7	6.0	125
Clinical Data ATAC 8000	40	169.7	6.3	3.7	171	39	133.2	5.2	3.9	133
All Chemistry Instruments	48	168.8	6.7	4.0	168	47	132.5	5.7	4.3	133
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	71	161.2	4.6	2.8	161	70	124.5	3.3	2.7	125
All Chemistry Instruments	74	161.6	4.9	3.1	161	76	124.7	4.0	3.2	125
DCL										
Roche Cobas Fara/Mira/Bio	10	162.2	8.4	5.2	165	10	125.6	6.9	5.5	126
All Chemistry Instruments	14	163.2	7.8	4.8	165	14	126.3	6.5	5.1	126
Olympus										
Olympus AU	8	161.6	6.2	3.8	165	8	123.1	4.8	3.9	124
Pointe Scientific/Landmark										
BMH 704, 705, 717	5	177.0	6.6	3.7	176	5	133.0	4.6	3.5	132
Spectrophotometer	6	166.0	14.8	8.9	168	6	133.3	8.1	6.1	130
All Chemistry Instruments	17	170.5	10.3	6.0	170	17	131.4	5.9	4.5	130
Polymedco										
Polymedco Poly-Chem System	7	170.4	5.6	3.3	172	7	129.4	6.5	5.0	127
Roche COBAS										
Roche Cobas Fara/Mira/Bio	49	172.9	8.6	5.0	174	49	132.8	6.4	4.8	134
Roche Integra										
Roche Integra	27	166.3	3.7	2.2	167	27	126.7	3.2	2.5	127
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	8	172.8	6.9	4.0	175	8	134.6	4.9	3.6	135
All Chemistry Instruments	9	174.0	7.5	4.3	175	9	135.1	4.8	3.5	135
ThermoDMA										
All Chemistry Instruments	7	175.1	7.0	4.0	178	7	134.6	2.9	2.1	135
VITROS										
VITROS 250,350,500,700,750,950	45	170.4	3.6	2.1	170	44	126.5	3.4	2.6	127
VITROS DT/DTII/DT60	31	175.6	4.0	2.3	176	31	128.4	4.4	3.4	129
All Chemistry Instruments	77	172.4	4.6	2.7	172	75	127.1	3.7	2.9	127

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	574	183.7	7.0	3.8	183	577	152.2	5.9	3.9	152
Abaxis Piccolo										
Abaxis Piccolo	14	185.4	2.8	1.5	185	14	155.1	3.5	2.3	155
Abbott Aeroset										
Abbott Aeroset	5	186.6	1.1	0.6	187	5	154.0	1.9	1.2	154
Abbott Architect										
Abbott Architect	6	184.0	1.7	0.9	184	6	151.3	1.6	1.1	152
Accu-Chek Instant Plus										
BMC Accu-Chek Instant/Plus	5	193.4	4.3	2.2	192	5	157.8	5.5	3.5	157
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	72	187.5	4.1	2.2	188	73	155.1	4.5	2.9	155
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	7	179.6	8.8	4.9	177	7	150.1	8.1	5.4	150
Beckman										
Beckman Synchron	34	180.7	2.8	1.6	181	35	150.5	2.5	1.7	150
Beckman Synchron LX/PRo/DxC	13	180.2	3.2	1.8	180	13	150.4	2.7	1.8	151
All Chemistry Instruments	47	180.6	2.9	1.6	180	48	150.4	2.6	1.7	150
Carolina Liquid Chemistries										
Beckman Synchron	8	175.5	2.8	1.6	175	8	149.6	4.2	2.8	150
All Chemistry Instruments	9	175.9	2.8	1.6	175	9	149.9	4.0	2.7	150
Cholestech LDX										
Cholestech LDX - waived	51	183.7	8.0	4.3	183	51	150.5	6.0	4.0	150
All Chemistry Instruments	55	183.3	8.0	4.3	183	55	150.4	5.9	3.9	150
Clinical Data										
Clinical Data ATAC 1500,2000,6000	6	178.0	9.2	5.2	177	6	148.5	8.1	5.5	147
Clinical Data ATAC 8000	40	182.7	8.8	4.8	183	40	155.1	6.0	3.9	155
All Chemistry Instruments	48	182.1	8.8	4.8	182	48	154.0	6.8	4.4	153
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	70	177.3	4.4	2.5	177	71	148.0	4.0	2.7	148
All Chemistry Instruments	74	177.8	4.9	2.7	178	75	148.2	4.1	2.7	148
DCL										
Roche Cobas Fara/Mira/Bio	10	178.3	11.0	6.2	179	10	147.8	6.4	4.4	149
All Chemistry Instruments	14	179.4	9.6	5.4	180	14	148.4	5.9	4.0	148
Olympus										
Olympus AU	8	177.6	7.0	3.9	181	8	146.4	5.8	3.9	149
Pointe Scientific/Landmark										
BMH 704, 705, 717	5	190.2	6.1	3.2	190	5	157.2	5.0	3.2	155
Spectrophotometer	6	181.0	13.9	7.7	183	6	155.0	9.3	6.0	152
All Chemistry Instruments	17	183.9	9.6	5.2	184	17	153.8	6.8	4.4	152
Polymedco										
Polymedco Poly-Chem System	7	189.6	10.0	5.3	187	7	156.9	7.0	4.4	156
Roche COBAS										
Roche Cobas Fara/Mira/Bio	49	188.3	8.6	4.6	188	49	156.3	6.6	4.2	157
Roche Integra										
Roche Integra	27	182.4	5.1	2.8	182	27	150.3	4.6	3.1	151
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	8	189.2	6.8	3.6	188	8	157.9	5.8	3.7	157
All Chemistry Instruments	9	190.7	7.7	4.0	188	9	159.0	6.4	4.0	157
ThermoDMA										
All Chemistry Instruments	7	193.0	5.5	2.8	192	7	162.0	3.4	2.1	163
VITROS										
VITROS 250,350,500,700,750,950	45	184.2	3.8	2.1	184	45	149.5	3.2	2.2	149
VITROS DT/DTII/DT60	30	186.8	4.9	2.6	186	31	152.7	3.9	2.6	152
All Chemistry Instruments	75	185.0	4.2	2.3	185	76	150.6	3.6	2.4	151

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>
All Method	577	225.1	9.7	4.3	225
Abaxis Piccolo					
Abaxis Piccolo	14	224.9	4.5	2.0	226
Abbott Aeroset					
Abbott Aeroset	5	228.6	1.8	0.8	229
Abbott Architect					
Abbott Architect	6	224.2	2.3	1.0	225
Accu-Chek Instant Plus					
BMC Accu-Chek Instant/Plus	5	234.6	9.2	3.9	232
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	72	226.8	6.1	2.7	228
Bayer (Express / Plus)					
Chiron Diagnostics 550 Express	7	217.0	11.6	5.3	218
Beckman					
Beckman Synchron	34	221.1	3.2	1.5	221
Beckman Synchron LX/PRo/DxC	13	219.5	3.3	1.5	219
All Chemistry Instruments	47	220.6	3.3	1.5	221
Carolina Liquid Chemistries					
Beckman Synchron	8	210.8	4.7	2.2	211
All Chemistry Instruments	9	210.9	4.4	2.1	211
Cholestech LDX					
Cholestech LDX - waived	51	228.5	9.8	4.3	228
All Chemistry Instruments	55	228.0	9.8	4.3	228
Clinical Data					
Clinical Data ATAC 1500,2000,6000	6	218.7	11.6	5.3	217
Clinical Data ATAC 8000	40	224.5	8.5	3.8	225
All Chemistry Instruments	48	223.5	9.1	4.1	223
Dade Behring					
Dade Dimension/AR/ES/RxL/Xpand	71	215.8	6.7	3.1	216
All Chemistry Instruments	76	217.0	8.0	3.7	216
DCL					
Roche Cobas Fara/Mira/Bio	10	215.1	11.0	5.1	215
All Chemistry Instruments	14	216.8	10.1	4.7	217
Olympus					
Olympus AU	8	216.8	8.0	3.7	220
Pointe Scientific/Landmark					
BMH 704, 705, 717	5	230.4	8.7	3.8	227
Spectrophotometer	5	212.0	14.4	6.8	210
All Chemistry Instruments	16	220.6	12.0	5.4	222
Polymedco					
Polymedco Poly-Chem System	7	230.4	7.2	3.1	230
Roche COBAS					
Roche Cobas Fara/Mira/Bio	49	231.3	10.2	4.4	231
Roche Integra					
Roche Integra	27	222.4	6.0	2.7	222
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	8	229.1	8.6	3.8	228
All Chemistry Instruments	9	231.1	10.0	4.3	228
ThermoDMA					
All Chemistry Instruments	7	235.6	5.9	2.5	236
VITROS					
VITROS 250,350,500,700,750,950	44	233.2	4.6	2.0	233
VITROS DT/DTII/DT60	29	233.2	6.5	2.8	232
All Chemistry Instruments	74	233.1	5.4	2.3	233

LDL Cholesterol (mg/dL)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Direct LDL Methods	160	71.5	14.4	20.1	69	159	48.6	14.3	29.5	45
All Method	480	87.8	18.4	20.9	93	475	61.9	16.0	25.8	66
Alfa Wass. ACE HDL-C / LDL-C	24	71.9	13.6	18.9	67	21	47.7	7.8	16.4	46
Beckman Coulter LDL	16	56.4	3.9	6.9	57	16	36.4	2.9	8.1	37
Calculated-Trig/5	247	99.3	9.3	9.4	100	247	71.7	8.2	11.5	71
Carolina Liquid Direct LDL	5	69.2	19.8	28.6	61	5	46.8	17.7	37.8	40
Clinical Data Direct	10	58.6	6.1	10.4	60	10	37.2	5.6	15.0	38
Dade Automated LDL (ALDL)	39	76.6	7.7	10.1	75	39	53.7	7.4	13.7	53
DCL Liquid Direct LDL	5	62.8	3.0	4.8	64	5	38.0	3.5	9.3	37
EQual Direct (HDL and LDL)	19	67.1	6.7	10.0	67	19	45.3	5.2	11.5	45
Polymedco Direct LDL	25	70.2	9.4	13.4	68	22	41.9	8.4	20.0	39
Roche COBAS	17	99.1	10.8	10.9	102	17	77.4	9.6	12.4	80

Cholesterol, HDL (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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Dex-Sulfate 50,000 MW Methods	124	44.9	5.5	12.2	44	133	39.3	5.0	12.6	38
All Direct Methods	280	40.1	6.1	15.3	40	279	36.8	7.1	19.4	36
All Phosphotungstic Acid Methods	52	35.6	3.8	10.7	37	52	30.7	2.8	9.1	31
All Method	518	40.8	6.4	15.7	40	523	37.1	6.7	18.1	37
Abaxis Piccolo										
Abaxis Piccolo	14	41.4	5.5	13.4	43	14	42.9	3.3	7.7	42
Abbott Architect										
Abbott Architect	5	40.6	1.5	3.7	41	5	34.2	0.4	1.3	34
Alfa Wass. ACE HDL-C / LDL-C										
Alfa Wassermann ACE/NexCT/Alera	38	41.6	1.5	3.7	41	39	38.1	1.5	3.8	38
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	31	41.6	2.0	4.7	42	31	37.9	1.6	4.4	38
Beckman HDLD										
Beckman Synchron	16	48.7	1.7	3.5	48	17	45.2	2.2	5.0	45
Beckman Synchron LX/PRo/DxC	7	48.7	2.6	5.4	50	7	44.9	2.5	5.7	46
All Chemistry Instruments	23	48.7	2.0	4.0	49	24	45.1	2.3	5.1	45
Beckman										
Beckman Synchron	13	49.9	2.2	4.4	50	13	46.0	2.4	5.3	45
Beckman Synchron LX/PRo/DxC	6	48.2	2.3	4.8	48	6	45.3	2.8	6.2	45
All Chemistry Instruments	19	49.4	2.3	4.7	49	19	45.8	2.5	5.4	45
Carolina Liquid Chemistries										
Beckman Synchron	9	55.0	2.8	5.1	56	9	45.2	2.3	5.0	45
All Chemistry Instruments	10	55.0	2.6	4.8	56	10	45.3	2.2	4.8	46
Cholestech LDX										
Cholestech LDX - waived	47	51.1	9.7	18.9	49	47	39.7	4.8	12.2	38
All Chemistry Instruments	51	51.3	9.5	18.5	50	51	40.0	5.3	13.1	38
Clinical Data Direct										
Clinical Data ATAC 8000	16	32.2	4.4	13.5	33	16	29.8	3.4	11.3	30
Clinical Data										
Clinical Data ATAC 8000	15	32.7	3.9	11.9	34	15	31.4	3.7	11.7	31
All Chemistry Instruments	20	39.9	19.1	47.8	34	20	36.9	14.5	39.4	32
Dade Automated HDL										
Dade Dimension/AR/ES/RxL/Xpand	35	37.6	2.3	6.0	37	34	30.3	1.7	5.7	30
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	30	37.7	1.8	4.7	37	30	30.4	2.0	6.5	31
DCL Direct HDL										

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11 (cont'd)					Specimen CH-12 (cont'd)				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Roche Cobas Fara/Mira/Bio	7	35.6	3.5	9.7	36	7	31.1	2.0	6.3	31
All Chemistry Instruments	9	36.6	5.0	13.7	36	9	32.0	3.8	12.0	31
Equal Direct (HDL and LDL)										
All Chemistry Instruments	5	38.4	5.1	13.4	39	5	32.0	6.0	18.9	34
Equal HDL Ultra (direct)										
Roche Cobas Fara/Mira/Bio	9	38.6	2.4	6.2	39	9	32.7	2.4	7.5	32
All Chemistry Instruments	17	38.1	3.3	8.6	39	18	32.8	4.4	13.4	32
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	6	47.2	4.8	10.2	49	6	45.3	4.3	9.5	48
Olympus Direct HDL / LDL										
Olympus AU	5	41.6	1.9	4.7	41	5	35.8	2.4	6.7	36
Other, Direct HDL										
All Chemistry Instruments	5	39.4	4.9	12.5	41	5	34.0	4.4	12.8	35
Pointe Scientific autoHDL Lot# >/- 523002										
All Chemistry Instruments	5	38.4	5.4	14.1	36	5	49.6	6.3	12.7	47
Polymedco										
All Chemistry Instruments	6	42.7	2.9	6.9	43	6	35.0	3.3	9.4	36
Polymedco Direct HDL										
Clinical Data ATAC 8000	6	34.3	4.0	11.6	36	6	28.0	2.8	10.1	27
Roche Cobas Fara/Mira/Bio	7	34.6	2.5	7.3	34	7	27.7	2.4	8.8	26
All Chemistry Instruments	23	37.3	5.3	14.1	38	23	30.5	4.4	14.3	31
Roche COBAS										
Roche Cobas Fara/Mira/Bio	5	34.6	4.1	11.8	35	5	30.8	4.3	14.0	32
Roche HDL Direct										
Roche Cobas Fara/Mira/Bio	23	36.9	2.6	7.1	36	22	34.0	2.6	7.6	34
Roche Integra	16	35.4	3.5	9.8	35	16	51.4	3.6	7.0	51
All Chemistry Instruments	39	36.3	3.0	8.4	36	38	41.3	9.2	22.2	37
Roche Integra										
Roche Integra	8	35.2	2.3	6.4	36	8	51.9	2.6	5.1	52
Trintiy Biotech (Sigma) EZ HDL										
All Chemistry Instruments	5	46.2	3.0	6.6	46	5	43.4	3.4	7.7	43
VITROS - Magnetic HDL										
VITROS 250,350,500,700,750,950	7	37.9	2.9	7.5	38	6	32.0	2.3	7.1	32
VITROS dHDL Slide										
VITROS 250,350,500,700,750,950	29	38.7	3.2	8.4	39	29	37.8	2.6	7.0	38
All Chemistry Instruments	30	38.6	3.2	8.4	39	30	37.7	2.6	6.9	38
VITROS										
VITROS 250,350,500,700,750,950	5	37.6	2.1	5.5	38	5	37.2	2.5	6.7	37
VITROS DT/DTII/DT60	13	46.4	6.4	13.8	45	13	37.8	3.6	9.4	37
All Chemistry Instruments	17	42.7	4.5	10.5	43	18	37.7	3.2	8.6	37

Specimen CH-13

Specimen CH-14

All Dex-Sulfate 50,000 MW Methods	133	47.8	6.6	13.8	46	132	43.7	6.5	14.9	43
All Direct Methods	280	45.8	7.5	16.4	45	280	42.1	8.0	19.0	41
All Phosphotungstic Acid Methods	52	39.2	3.8	9.6	40	50	34.8	2.3	6.6	35
All Method	526	45.6	7.2	15.7	45	526	41.9	7.6	18.2	41
Abaxis Piccolo										
Abaxis Piccolo	14	49.1	4.3	8.7	51	14	46.9	3.8	8.1	48
Abbott Architect										
Abbott Architect	5	44.0	1.0	2.3	44	5	39.0	0.7	1.8	39
Alfa Wass. ACE HDL-C / LDL-C										
Alfa Wassermann ACE/NexCT/Alera	38	47.6	1.4	3.0	48	38	43.4	1.7	3.9	43
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	31	46.5	1.9	4.2	46	31	42.9	1.9	4.5	43

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13 (cont'd)</u>				<u>Specimen CH-14 (cont'd)</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Beckman HDLD										
Beckman Synchron	17	58.1	2.4	4.2	58	17	53.9	2.9	5.4	55
Beckman Synchron LX/PRo/DxC	7	58.1	2.7	4.6	58	7	53.0	2.6	5.0	54
All Chemistry Instruments	24	58.1	2.4	4.2	58	24	53.6	2.8	5.3	54
Beckman										
Beckman Synchron	13	58.8	2.2	3.8	59	13	54.4	2.0	3.7	54
Beckman Synchron LX/PRo/DxC	6	58.0	2.0	3.4	59	6	53.7	2.1	3.8	53
All Chemistry Instruments	19	58.5	2.1	3.7	59	19	54.2	2.0	3.7	53
Carolina Liquid Chemistries										
Beckman Synchron	9	61.2	2.7	4.5	62	9	54.4	2.5	4.5	55
All Chemistry Instruments	10	61.2	2.6	4.2	62	10	54.3	2.4	4.3	55
Cholestech LDX										
Cholestech LDX - waived	47	46.4	6.4	13.7	46	45	42.4	6.6	15.5	42
All Chemistry Instruments	51	46.4	6.7	14.3	46	49	42.7	6.7	15.7	42
Clinical Data Direct										
Clinical Data ATAC 8000	16	36.2	4.4	12.3	37	16	34.1	3.8	11.2	35
Clinical Data										
Clinical Data ATAC 8000	15	36.8	4.4	11.9	36	15	34.3	3.4	10.0	35
All Chemistry Instruments	20	45.9	23.4	51.0	37	20	41.8	19.2	45.9	35
Dade Automated HDL										
Dade Dimension/AR/ES/RxL/Xpand	35	40.7	2.8	6.8	40	34	34.9	1.9	5.5	35
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	30	40.8	2.3	5.7	41	30	35.2	1.9	5.4	35
DCL Direct HDL										
Roche Cobas Fara/Mira/Bio	7	39.1	2.4	6.2	38	7	34.7	2.9	8.3	36
All Chemistry Instruments	9	40.8	5.4	13.2	39	9	36.0	4.8	13.4	36
EQual Direct (HDL and LDL)										
All Chemistry Instruments	5	42.4	6.4	15.2	44	5	36.6	6.0	16.5	38
EQual HDL Ultra (direct)										
Roche Cobas Fara/Mira/Bio	9	42.3	2.7	6.5	42	9	37.8	3.3	8.9	37
All Chemistry Instruments	18	42.3	5.0	11.8	42	18	37.6	4.9	13.0	39
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	6	57.8	2.8	4.8	58	6	53.2	4.1	7.7	54
Olympus Direct HDL / LDL										
Olympus AU	5	45.6	1.8	4.0	45	5	40.4	1.1	2.8	40
Other, Direct HDL										
All Chemistry Instruments	5	42.4	5.5	13.1	43	5	38.6	4.8	12.5	38
Pointe Scientific autoHDL Lot# >/- 523002										
All Chemistry Instruments	5	49.4	7.6	15.5	46	5	54.4	7.8	14.4	51
Polymedco										
All Chemistry Instruments	6	47.7	2.9	6.0	48	6	40.8	4.0	9.8	42
Polymedco Direct HDL										
Clinical Data ATAC 8000	6	39.2	3.7	9.5	39	6	33.3	1.5	4.5	34
Roche Cobas Fara/Mira/Bio	7	36.9	2.6	7.1	36	7	31.7	2.1	6.7	31
All Chemistry Instruments	23	41.6	6.3	15.1	41	23	35.8	5.3	14.7	34
Roche COBAS										
Roche Cobas Fara/Mira/Bio	5	39.0	4.3	11.0	39	5	35.0	4.9	14.1	35
Roche HDL Direct										
Roche Cobas Fara/Mira/Bio	22	41.5	2.3	5.7	42	23	38.1	2.3	6.0	38
Roche Integra	16	47.4	4.7	9.9	49	16	54.6	4.1	7.5	55
All Chemistry Instruments	39	44.3	5.0	11.2	43	39	44.9	8.8	19.5	40
Roche Integra										
Roche Integra	9	46.9	3.7	7.9	48	9	54.3	4.1	7.6	54
Trintiy Biotech (Sigma) EZ HDL										
All Chemistry Instruments	5	51.2	3.8	7.4	51	5	48.4	3.8	7.9	48
VITROS - Magnetic HDL										
VITROS 250,350,500,700,750,950	7	39.7	2.8	6.9	40	7	34.6	2.2	6.4	35
VITROS dHDL Slide										
VITROS 250,350,500,700,750,950	29	45.1	2.9	6.5	45	29	42.6	2.7	6.3	43
All Chemistry Instruments	30	45.0	2.9	6.5	45	30	42.5	2.7	6.3	43

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>
All Dex-Sulfate 50,000 MW Methods	128	54.0	7.5	13.8	52
All Direct Methods	281	48.2	9.0	18.6	48
All Phosphotungstic Acid Methods	52	44.9	6.1	13.7	47
All Method	520	49.1	8.9	18.1	49
Abaxis Piccolo					
Abaxis Piccolo	14	46.5	5.8	12.4	46
Abbott Architect					
Abbott Architect	5	50.0	1.4	2.8	51
All Chemistry Instruments	5	50.0	1.4	2.8	51
Alfa Wass. ACE HDL-C / LDL-C					
Alfa Wassermann ACE/NexCT/Alera	38	48.9	1.6	3.3	49
Alfa Wassermann					
Alfa Wassermann ACE/NexCT/Alera	31	48.9	1.9	3.9	49
All Chemistry Instruments	31	48.9	1.9	3.9	49
Beckman HDLD					
Beckman Synchron	17	60.5	2.3	3.8	60
Beckman Synchron LX/PRO/DxC	7	60.7	2.8	4.6	62
All Chemistry Instruments	24	60.6	2.4	4.0	60
Beckman					
Beckman Synchron	13	61.6	2.7	4.3	61
Beckman Synchron LX/PRO/DxC	6	59.8	3.2	5.3	59
All Chemistry Instruments	19	61.1	2.9	4.7	61
Carolina Liquid Chemistries					
Beckman Synchron	9	72.0	3.1	4.3	73
All Chemistry Instruments	10	72.2	3.0	4.2	73
Cholestech LDX					
Cholestech LDX - waived	42	56.1	8.5	15.2	56
All Chemistry Instruments	46	56.2	8.3	14.8	55
Clinical Data Direct					
Clinical Data ATAC 8000	16	37.8	4.9	12.9	40
Clinical Data					
Clinical Data ATAC 8000	15	38.7	6.0	15.4	38
All Chemistry Instruments	20	49.4	27.0	54.6	38
Dade Automated HDL					
Dade Dimension/AR/ES/RxL/Xpand	36	48.2	2.9	6.1	48
Dade Behring					
Dade Dimension/AR/ES/RxL/Xpand	30	48.8	2.3	4.7	49
DCL Direct HDL					
Roche Cobas Fara/Mira/Bio	7	41.9	3.9	9.3	42
All Chemistry Instruments	9	43.6	6.1	13.9	42
Equal Direct (HDL and LDL)					
All Chemistry Instruments	5	48.0	6.2	12.8	49
Equal HDL Ultra (direct)					
Roche Cobas Fara/Mira/Bio	9	47.4	3.6	7.5	49
All Chemistry Instruments	18	47.9	5.0	10.5	49
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	6	60.7	3.1	5.1	61
Olympus Direct HDL / LDL					
Olympus AU	5	52.4	2.9	5.5	52
Other, Direct HDL					
All Chemistry Instruments	5	45.4	12.1	26.6	49
Pointe Scientific autoHDL Lot# >/- 523002					
All Chemistry Instruments	6	41.3	7.8	18.8	40
Polymedco					
All Chemistry Instruments	6	52.5	4.1	7.9	54

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

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Polymedco Direct HDL					
Clinical Data ATAC 8000	6	45.5	5.3	11.6	49
Roche Cobas Fara/Mira/Bio	7	41.9	3.5	8.4	42
All Chemistry Instruments	23	46.6	7.3	15.6	47
Roche COBAS					
Roche Cobas Fara/Mira/Bio	5	43.0	5.3	12.4	41
Roche HDL Direct					
Roche Cobas Fara/Mira/Bio	22	44.7	2.6	5.8	45
Roche Integra	16	32.1	4.2	13.1	33
All Chemistry Instruments	38	39.4	7.1	18.1	43
Roche Integra					
Roche Integra	9	31.1	2.8	9.0	32
Trintiy Biotech (Sigma) EZ HDL					
All Chemistry Instruments	5	54.8	2.9	5.2	55
VITROS - Magnetic HDL					
VITROS 250,350,500,700,750,950	7	46.3	3.5	7.5	47
VITROS dHDL Slide					
VITROS 250,350,500,700,750,950	29	48.0	3.5	7.2	48
All Chemistry Instruments	30	47.9	3.4	7.2	48
VITROS					
VITROS 250,350,500,700,750,950	5	47.8	3.8	7.9	48
VITROS DT/DTII/DT60	13	57.4	10.6	18.6	56
All Chemistry Instruments	18	54.7	10.1	18.5	52

Triglycerides (mg/dL)**Specimen CH-11****Specimen CH-12**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	538	146.6	8.5	5.8	147	534	100.9	7.1	7.0	101
Abaxis Piccolo										
Abaxis Piccolo	14	154.1	2.8	1.8	154	14	107.1	13.4	12.5	106
Abbott Aeroset										
Abbott Aeroset	5	144.8	6.9	4.7	145	5	100.8	5.4	5.4	99
Abbott Architect										
Abbott Architect	6	139.3	5.6	4.1	139	6	96.5	5.2	5.4	95
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	72	149.5	6.1	4.1	149	72	105.3	4.5	4.2	105
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	6	133.3	4.7	3.5	134	6	87.7	5.5	6.3	89
Beckman										
Beckman Synchron	34	144.9	9.2	6.3	143	33	96.8	4.7	4.9	97
Beckman Synchron LX/Pro/DxC	13	141.2	4.2	3.0	141	13	95.0	2.6	2.8	94
All Chemistry Instruments	45	142.8	6.5	4.6	142	46	96.3	4.3	4.4	96
Carolina Liquid Chemistries										
Beckman Synchron	9	147.1	7.1	4.8	146	8	104.1	6.3	6.0	104
All Chemistry Instruments	10	147.0	6.7	4.6	146	9	103.7	6.0	5.8	104
Cholestech LDX										
Cholestech LDX - waived	46	145.0	6.0	4.1	145	46	98.1	5.1	5.2	98
All Chemistry Instruments	50	145.0	5.9	4.1	145	50	98.1	5.0	5.1	98
Clinical Data										
Clinical Data ATAC 8000	39	154.4	8.4	5.5	154	39	108.5	6.5	6.0	109
All Chemistry Instruments	45	153.0	9.2	6.0	153	45	107.5	7.6	7.1	109
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	68	150.4	3.5	2.4	150	68	104.6	3.0	2.8	105
All Chemistry Instruments	71	150.4	3.5	2.3	150	71	104.7	3.0	2.8	105

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-11 (cont'd)</u>					<u>Specimen CH-12 (cont'd)</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
DCL										
Roche Cobas Fara/Mira/Bio	8	148.9	9.7	6.5	152	9	99.2	8.1	8.2	100
All Chemistry Instruments	12	148.0	9.9	6.7	150	13	99.7	7.8	7.8	100
Olympus										
Olympus AU	8	147.0	5.5	3.7	148	8	100.5	4.4	4.4	101
Pointe Scientific/Landmark										
BMH 704, 705, 717	5	135.6	7.3	5.4	137	5	88.8	3.0	3.4	88
Spectrophotometer	5	138.4	8.4	6.1	137	5	88.6	5.8	6.5	86
All Chemistry Instruments	16	135.8	7.5	5.5	137	16	88.8	5.7	6.4	88
Polymedco										
Polymedco Poly-Chem System	7	144.1	9.5	6.6	145	7	100.9	5.9	5.8	100
All Chemistry Instruments	8	144.5	8.8	6.1	147	8	100.4	5.6	5.6	100
Roche COBAS										
Roche Cobas Fara/Mira/Bio	48	137.1	7.0	5.1	137	47	94.2	5.0	5.3	95
Roche Integra										
Roche Integra	26	143.0	5.2	3.6	143	25	100.2	2.9	2.9	100
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	7	145.0	12.6	8.7	141	7	96.0	8.4	8.8	93
All Chemistry Instruments	10	150.6	15.5	10.3	153	10	99.3	9.8	9.9	102
VITROS										
VITROS 250,350,500,700,750,950	43	146.5	4.2	2.9	146	43	101.6	3.3	3.3	101
VITROS DT/DTII/DT60	13	156.9	7.0	4.4	157	13	103.1	5.5	5.3	105
All Chemistry Instruments	57	148.7	6.2	4.1	147	56	102.2	3.5	3.4	102
Specimen CH-13										
All Method	530	137.5	7.6	5.5	137	534	110.1	7.1	6.5	110
Abaxis Piccolo										
Abaxis Piccolo	14	143.5	2.8	1.9	144	14	114.7	3.0	2.6	115
Abbott Aeroset										
Abbott Aeroset	5	135.6	4.9	3.6	135	5	109.6	5.5	5.0	107
Abbott Architect										
Abbott Architect	6	130.8	3.9	3.0	132	6	106.2	5.1	4.8	105
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	71	143.4	4.9	3.4	144	70	115.5	4.4	3.8	115
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	6	132.7	7.5	5.7	138	6	96.5	8.4	8.7	99
Beckman										
Beckman Synchron	33	133.4	6.5	4.9	134	33	105.3	6.0	5.7	105
Beckman Synchron LX/PRo/DxC	13	129.8	3.6	2.8	129	13	103.4	3.0	2.9	103
All Chemistry Instruments	46	132.4	6.0	4.6	132	46	104.8	5.4	5.2	105
Carolina Liquid Chemistries										
Beckman Synchron	8	137.0	8.1	5.9	139	8	115.2	10.2	8.8	115
All Chemistry Instruments	9	136.9	7.5	5.5	136	9	114.8	9.6	8.4	115
Cholestech LDX										
Cholestech LDX - waived	46	136.3	5.9	4.3	137	46	108.1	5.5	5.1	108
All Chemistry Instruments	50	136.4	5.8	4.3	137	50	108.1	5.4	5.0	108
Clinical Data										
Clinical Data ATAC 8000	38	141.5	7.7	5.4	141	39	115.2	8.5	7.4	116
All Chemistry Instruments	44	141.0	7.8	5.5	141	45	114.9	8.7	7.6	115

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CH-13 (cont'd)</u>				<u>Specimen CH-14 (cont'd)</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	68	138.2	3.6	2.6	137	68	112.0	2.9	2.6	112
All Chemistry Instruments	71	138.4	3.6	2.6	138	72	111.9	3.1	2.8	112
DCL										
Roche Cobas Fara/Mira/Bio	9	142.1	9.6	6.8	144	9	112.9	9.0	8.0	116
All Chemistry Instruments	13	141.1	9.1	6.4	140	13	112.3	8.6	7.6	114
Olympus										
Olympus AU	8	134.4	5.4	4.1	138	8	109.6	4.5	4.1	111
Pointe Scientific/Landmark										
BMH 704, 705, 717	5	124.0	8.4	6.7	120	5	98.6	5.4	5.5	95
Spectrophotometer	5	134.4	2.1	1.5	134	5	103.4	2.2	2.1	103
All Chemistry Instruments	17	129.6	13.6	10.5	132	16	100.1	5.4	5.4	103
Polymedco										
Polymedco Poly-Chem System	7	133.7	8.3	6.2	133	7	109.1	7.2	6.6	109
All Chemistry Instruments	8	133.9	7.7	5.8	135	8	109.0	6.7	6.2	109
Roche COBAS										
Roche Cobas Fara/Mira/Bio	48	129.5	6.5	5.0	130	47	103.5	5.2	5.1	103
Roche Integra										
Roche Integra	27	135.1	6.3	4.6	136	27	107.9	5.1	4.7	108
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	6	142.5	7.0	4.9	145	7	109.7	5.6	5.1	110
All Chemistry Instruments	9	147.9	12.5	8.4	145	10	115.1	11.8	10.2	114
VITROS										
VITROS 250,350,500,700,750,950	44	136.5	4.3	3.2	136	43	109.2	3.0	2.8	108
VITROS DT/DTII/DT60	13	144.0	7.0	4.8	144	13	111.8	5.3	4.7	112
All Chemistry Instruments	57	137.8	5.3	3.8	136	57	109.8	3.7	3.3	110
Specimen CH-15										
All Method	530	184.0	10.0	5.4	185					
Abaxis Piccolo										
Abaxis Piccolo	14	187.3	5.2	2.8	188					
Abbott Aeroset										
Abbott Aeroset	5	183.0	6.0	3.3	186					
Abbott Architect										
Abbott Architect	6	176.0	3.9	2.2	176					
Alfa Wassermann										
Alfa Wassermann ACE/NexCT/Alera	71	188.7	6.7	3.5	189					
Bayer (Express / Plus)										
Chiron Diagnostics 550 Express	6	179.2	10.4	5.8	186					
Beckman										
Beckman Synchron	34	180.8	10.0	5.5	181					
Beckman Synchron LX/Pro/DxC	13	176.2	4.9	2.8	175					
All Chemistry Instruments	46	178.9	8.0	4.5	179					
Carolina Liquid Chemistries										
Beckman Synchron	8	175.1	14.0	8.0	180					
All Chemistry Instruments	9	174.9	13.2	7.5	178					
Cholestech LDX										
Cholestech LDX - waived	46	181.3	10.2	5.6	182					
All Chemistry Instruments	50	181.1	10.1	5.6	182					
Clinical Data										
Clinical Data ATAC 8000	39	188.7	11.3	6.0	189					
All Chemistry Instruments	45	188.6	11.5	6.1	187					
Dade Behring										
Dade Dimension/AR/ES/RxL/Xpand	69	185.9	3.6	2.0	186					
All Chemistry Instruments	72	185.8	3.7	2.0	186					

Triglycerides (mg/dL)

Specimen CH-15 (cont'd)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
DCL					
Roche Cobas Fara/Mira/Bio	8	192.0	9.6	5.0	193
All Chemistry Instruments	12	188.2	10.5	5.6	190
Olympus					
Olympus AU	8	183.8	6.8	3.7	185
Pointe Scientific/Landmark					
BMH 704, 705, 717	5	172.2	12.0	6.9	167
Spectrophotometer	5	185.8	7.6	4.1	184
All Chemistry Instruments	17	178.2	17.5	9.8	178
Polymedco					
Polymedco Poly-Chem System	7	177.9	10.7	6.0	179
All Chemistry Instruments	8	178.8	10.2	5.7	181
Roche COBAS					
Roche Cobas Fara/Mira/Bio	46	173.0	5.9	3.4	173
Roche Integra					
Roche Integra	25	182.0	5.1	2.8	181
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	7	190.0	14.1	7.4	188
All Chemistry Instruments	10	197.0	18.9	9.6	191
VITROS					
VITROS 250,350,500,700,750,950	44	188.5	5.5	2.9	188
VITROS DT/DTII/DT60	13	200.3	7.5	3.7	200
All Chemistry Instruments	58	191.1	7.7	4.0	189

Acetaminophen (mcg/mL)

Specimen CH-11

Specimen CH-12

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	11	68.26	3.46	5.1	67.1	11	9.18	1.25	13.6	9.1
Dade Dimension/AR/ES/RxL/Xpand	9	66.88	1.75	2.6	66.7	9	9.22	1.30	14.1	9.1

Specimen CH-13

Specimen CH-14

All Methods	11	43.34	2.94	6.8	42.2	11	11.85	1.19	10.1	12.1
Dade Dimension/AR/ES/RxL/Xpand	9	42.08	0.88	2.1	42.0	9	11.82	1.33	11.3	12.2

Specimen CH-15

All Methods	11	102.50	2.40	2.3	102.4
Dade Dimension/AR/ES/RxL/Xpand	9	101.94	2.25	2.2	102.2

Carbamazepine (mcg/mL)

Specimen CH-11

Specimen CH-12

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	18	5.97	0.72	12.0	6.0	18	6.54	0.71	10.9	6.5
Dade Dimension/AR/ES/RxL/Xpand	9	5.70	0.32	5.5	5.5	9	6.29	0.31	4.9	6.3

Specimen CH-13

Specimen CH-14

All Methods	18	11.12	1.09	9.8	11.1	18	10.02	1.22	12.2	9.8
Dade Dimension/AR/ES/RxL/Xpand	9	10.74	0.57	5.3	10.9	9	9.47	0.50	5.3	9.6

Specimen CH-15

All Methods	18	10.43	1.13	10.9	10.3
Dade Dimension/AR/ES/RxL/Xpand	9	9.96	0.56	5.6	9.8

Digoxin (ng/mL)

<i>Method</i>	Specimen CH-11					Specimen CH-12				
	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>	<i>Labs</i>	<i>Mean</i>	<i>SD</i>	<i>CV</i>	<i>Median</i>
All Beckman Synchron Instruments	12	1.24	0.13	10.6	1.2	12	0.53	0.16	29.2	0.5
All Mainframe VITROS Instruments	9	1.54	0.14	9.2	1.5	9	0.72	0.14	19.3	0.7
All Method	114	1.43	0.15	10.3	1.4	111	0.60	0.11	18.8	0.6
Abbott AxSYM	12	1.41	0.16	11.5	1.4	12	0.63	0.14	21.6	0.6
Abbott IMx	18	1.38	0.12	8.5	1.4	18	0.59	0.11	17.8	0.6
Beckman ACCESS	5	1.40	0.07	5.1	1.4	5	0.60	0	0	0.6
Beckman Synchron	8	1.25	0.14	11.3	1.3	8	0.50	0.12	23.9	0.5
Dade Dimension/AR/ES/RxL/Xpand	34	1.49	0.09	6.0	1.5	34	0.60	0.06	9.2	0.6
Roche TDM On Line	6	1.43	0.15	10.5	1.4	5	0.54	0.15	28.1	0.6
VITROS 250,350,500,700,750,950	8	1.52	0.14	9.1	1.5	8	0.70	0.13	18.7	0.7

Specimen CH-13

Specimen CH-14

All Beckman Synchron Instruments	12	1.20	0.09	7.1	1.2	12	0.67	0.09	13.3	0.7
All Mainframe VITROS Instruments	8	1.35	0.18	13.1	1.4	9	0.84	0.10	12.0	0.8
All Method	114	1.31	0.12	9.5	1.3	114	0.80	0.11	14.1	0.8
Abbott AxSYM	12	1.28	0.13	10.4	1.3	12	0.80	0.14	17.7	0.8
Abbott IMx	18	1.27	0.11	8.9	1.3	18	0.75	0.10	13.1	0.7
Beckman ACCESS	5	1.24	0.09	7.2	1.3	5	0.78	0.04	5.7	0.8
Beckman Synchron	8	1.19	0.08	7.0	1.2	8	0.66	0.09	13.8	0.7
Dade Dimension/AR/ES/RxL/Xpand	34	1.36	0.08	5.7	1.4	34	0.83	0.05	6.3	0.8
Roche TDM On Line	6	1.32	0.17	13.1	1.3	6	0.82	0.21	26.2	0.9
VITROS 250,350,500,700,750,950	7	1.31	0.16	12.0	1.3	8	0.82	0.09	10.7	0.8

Specimen CH-15

All Beckman Synchron Instruments	12	1.95	0.11	5.6	2.0
All Mainframe VITROS Instruments	9	2.29	0.18	7.7	2.3
All Method	115	2.17	0.20	9.3	2.2
Abbott AxSYM	12	2.16	0.21	9.8	2.2
Abbott IMx	18	2.18	0.16	7.4	2.2
Beckman ACCESS	5	1.90	0.12	6.4	1.9
Beckman Synchron	8	1.96	0.12	6.1	2.0
Dade Dimension/AR/ES/RxL/Xpand	33	2.29	0.08	3.7	2.3
Roche TDM On Line	6	2.17	0.20	9.1	2.3
VITROS 250,350,500,700,750,950	8	2.26	0.17	7.4	2.3

Gentamicin (mcg/mL)

One participant reported results for Gentamicin. The vendor assay for specimens CH-11 through CH-15 are: 6.8 ug/mL, 8.5 ug/mL, 4.0 ug/mL, 6.0 ug/mL, and 2.3 ug/mL, respectively.

Lithium (mmol/L)

Two participants reported results for Lithium. The vendor assay for specimens CH-11 through CH-15 are: 1.3 mmol/L, 2.2 mmol/L, 1.2 mmol/L, 1.8 mmol/L, and 0.2 mmol/L, respectively.

Phenobarbital (mcg/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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	12	42.28	3.67	8.7	42.6	12	19.83	1.45	7.3	20.0
Dade Dimension/AR/ES/RxL/Xpand	6	44.80	2.28	5.1	44.8	6	20.62	1.30	6.3	21.1
<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	12	39.09	4.87	12.5	39.7	12	24.52	1.51	6.2	25.3
Dade Dimension/AR/ES/RxL/Xpand	6	41.05	2.15	5.2	41.0	6	25.73	0.39	1.5	25.8
<u>Method</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	12	60.12	6.12	10.2	61.6					
Dade Dimension/AR/ES/RxL/Xpand	6	64.33	3.41	5.3	66.0					

Phenytoin (mcg/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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	38	9.82	0.61	6.2	9.7	38	11.92	0.65	5.4	12.0
Beckman Synchron	7	10.06	0.59	5.9	9.8	7	11.90	0.71	5.9	11.7
Dade Dimension/AR/ES/RxL/Xpand	17	9.88	0.62	6.3	9.7	17	11.90	0.51	4.3	12.0
<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	38	20.24	1.20	5.9	20.2	38	18.04	0.90	5.0	18.2
Beckman Synchron	7	19.59	0.88	4.5	19.9	7	17.71	0.48	2.7	17.6
Dade Dimension/AR/ES/RxL/Xpand	17	20.84	1.09	5.2	21.0	17	18.37	0.80	4.4	18.3
<u>Method</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Method	39	18.37	1.16	6.3	18.4					
Beckman Synchron	7	18.14	0.80	4.4	18.0					
Dade Dimension/AR/ES/RxL/Xpand	17	18.89	0.96	5.1	19.0					

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-11					Specimen CH-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	9	5.34	1.83	34.2	4.8	8	0.62	1.77	282.8	0
Dade Dimension/AR/ES/RxL/Xpand	8	4.76	0.58	12.2	4.8	7	0	0	0	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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	9	6.72	1.05	15.7	6.5	9	2.36	1.46	61.8	1.9
Dade Dimension/AR/ES/RxL/Xpand	8	6.44	0.66	10.3	6.5	8	1.90	0.53	28.1	1.9
<u>Method</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	9	12.96	0.60	4.7	12.9					
Dade Dimension/AR/ES/RxL/Xpand	8	12.82	0.49	3.8	12.9					

Theophylline (mcg/mL)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	8	16.28	0.91	5.6	16.6	8	26.79	0.70	2.6	27.1
All Method	30	16.26	1.04	6.4	16.0	29	26.37	1.23	4.7	26.4
Beckman Synchron	6	15.32	0.44	2.8	15.5	6	25.45	1.07	4.2	25.6
Dade Dimension/AR/ES/RxL/Xpand	11	16.45	0.90	5.5	16.1	11	26.43	1.52	5.8	26.4

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	8	29.58	0.54	1.8	29.7	8	31.51	1.29	4.1	32.4
All Method	30	29.24	1.84	6.3	29.2	31	31.61	2.53	8.0	31.5
Beckman Synchron	6	27.92	0.94	3.4	27.9	6	30.42	0.96	3.1	31.0
Dade Dimension/AR/ES/RxL/Xpand	11	29.18	2.04	7.0	29.2	11	30.83	2.15	7.0	31.5

<u>Method</u>	<u>Specimen CH-15</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	8	19.04	0.46	2.4	19.2
All Method	30	18.80	1.04	5.5	19.0
Beckman Synchron	6	18.20	1.03	5.7	19.0
Dade Dimension/AR/ES/RxL/Xpand	11	18.72	1.07	5.7	18.4

Valproic Acid (mcg/mL)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	18	98.52	9.12	9.3	97.2	18	70.66	6.13	8.7	69.2
Dade Dimension/AR/ES/RxL/Xpand	10	94.47	7.22	7.6	94.4	10	68.01	3.73	5.5	68.9

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	18	71.35	6.00	8.4	70.9	18	60.73	4.10	6.8	60.1
Dade Dimension/AR/ES/RxL/Xpand	10	68.05	3.19	4.7	69.3	10	58.92	2.48	4.2	60.0

<u>Method</u>	<u>Specimen CH-15</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	18	97.73	8.49	8.7	97.2
Dade Dimension/AR/ES/RxL/Xpand	10	94.06	6.26	6.7	94.0

Vancomycin

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	5	26.68	3.27	12.3	27.5	5	8.50	0.88	10.4	8.8

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	5	31.20	3.45	11.1	31.3	5	17.22	2.29	13.3	17.1

<u>Method</u>	<u>Specimen CH-15</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	5	48.28	1.52	3.1	48.7

Apolipoproteins A1 (mg/dL)

<u>Method</u>	Specimen LP-11					Specimen LP-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	9	107.2	8.0	7.5	105	9	90.6	7.1	7.8	92

Apolipoproteins B (mg/dL)

<u>Method</u>	Specimen LP-11					Specimen LP-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	9	56.8	8.0	14.1	58	9	44.4	6.6	14.8	44

Neonatal Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen NB-11					Specimen NB-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	41	11.44	1.22	10.7	11.4	41	6.36	0.51	8.0	6.2
No Reagent Required										
Advanced Bilirubin STAT-BR2	5	11.76	0.50	4.3	11.5	5	6.50	0.38	5.9	6.4
Bilirubinometer / Unistat	7	12.61	0.43	3.4	12.8	7	6.67	0.32	4.8	6.8
All Chemistry Instruments	12	12.26	0.62	5.1	12.4	12	6.60	0.34	5.2	6.8
VITROS - NBIL										
VITROS DT/DTII/DT60	12	10.59	0.96	9.0	10.8	12	6.19	0.47	7.7	6.0
All Chemistry Instruments	13	10.76	1.10	10.2	10.8	13	6.24	0.48	7.8	6.0

<u>Reagent/Instrument</u>	Specimen NB-13					Specimen NB-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	39	18.18	1.70	9.4	18.2	41	2.52	0.29	11.5	2.5
No Reagent Required										
Advanced Bilirubin STAT-BR2	5	17.92	0.58	3.2	17.9	5	2.68	0.15	5.5	2.7
Bilirubinometer / Unistat	7	19.43	0.67	3.4	19.8	7	2.10	0.16	7.8	2.2
All Chemistry Instruments	12	18.80	0.98	5.2	18.9	12	2.34	0.33	14.3	2.3
VITROS - NBIL										
VITROS DT/DTII/DT60	10	17.62	2.16	12.2	18.2	12	2.63	0.30	11.5	2.7
All Chemistry Instruments	11	17.85	2.18	12.2	18.2	13	2.63	0.29	11.0	2.6

<u>Reagent/Instrument</u>	Specimen NB-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	35	20.43	1.70	8.3	20.0
No Reagent Required					
Advanced Bilirubin STAT-BR2	5	19.66	0.53	2.7	19.6
Bilirubinometer / Unistat	7	21.86	1.10	5.0	22.4
All Chemistry Instruments	12	20.94	1.43	6.8	21.2
VITROS - NBIL					
VITROS DT/DTII/DT60	8	19.62	1.55	7.9	20.0
All Chemistry Instruments	9	19.91	1.69	8.5	20.0

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen NB-11					Specimen NB-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	18	6.39	1.74	27.3	6.1	18	2.39	0.69	28.8	2.1
Advanced Instruments - D. bili										
Advanced Bilirubin STAT-BR2	5	5.20	0.97	18.6	5.4	5	2.06	0.61	29.6	2.1

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	19	7.415	0.010	0.1	7.43	17	7.798	0.008	0.1	7.82
i-STAT	15	7.459	0.006	0.1	7.46	15	7.949	0.004	0.1	7.95
IL Gem Premier 3000	7	7.421	0.004	0.1	7.42	7	7.800	0	0	7.80
Specimen BG-13										
All Method	20	6.840	0.040	0.6	6.86	20	7.600	0.023	0.3	7.62
i-STAT	15	6.875	0.011	0.2	6.88	15	7.657	0.005	0.1	7.66
IL Gem Premier 3000	7	6.807	0.008	0.1	6.81	7	7.614	0.005	0.1	7.61
Specimen BG-14										
All Method	18	7.800	0.011	0.1	7.82					
i-STAT	15	7.950	0.005	0.1	7.95					
IL Gem Premier 3000	7	7.800	0.000	0.0	7.80					

Blood Gases - pCO₂ (mmHg)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	43.72	1.46	3.3	42.3	20	12.17	1.60	13.1	13.3
i-STAT	16	36.58	0.98	2.7	36.7	16	13.83	0.67	4.9	14.0
IL Gem Premier 3000	7	44.29	0.95	2.1	45.0	7	10.71	0.49	4.6	11.0
Specimen BG-13										
All Method	18	93.39	5.64	6.0	88.0	20	22.53	1.34	6.0	21.0
i-STAT	13	83.56	2.54	3.0	82.5	15	18.78	0.41	2.2	18.8
IL Gem Premier 3000	5	94.40	1.52	1.6	95.0	7	21.29	0.49	2.3	21.0
Specimen BG-14										
All Method	20	12.20	1.34	11.0	13.3					
i-STAT	15	13.97	0.66	4.7	13.8					
IL Gem Premier 3000	7	10.86	0.69	6.4	11.0					

Blood Gases - pO₂ (mmHg)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	106.14	6.46	6.1	106.0	19	476.72	36.50	7.7	455.0
i-STAT	15	100.73	4.93	4.9	100.0	14	393.79	37.38	9.5	395.0
IL Gem Premier 3000	7	107.14	1.35	1.3	107.0	6	462.33	6.38	1.4	466.0

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	19	41.27	14.86	36.0	49.0	20	141.56	6.49	4.6	136.0
i-STAT	13	58.31	7.15	12.3	58.0	15	126.13	5.85	4.6	127.0
IL Gem Premier 3000	6	35.83	2.14	6.0	37.0	7	140.29	3.04	2.2	142.0

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	18	480.13	32.69	6.8	455.0
i-STAT	13	386.54	40.41	10.5	393.0
IL Gem Premier 3000	6	462.83	6.52	1.4	465.0

Blood Gases - Ionized Calcium (mmol/L)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	6	1.092	0.048	4.4	1.09	6	0.250	0.044	17.7	0.25

Blood Gases - Potassium (mmol/L)

<u>Method</u>	Specimen BG-11					Specimen BG-11				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	5	4.40	0.16	3.6	4.4	5	1.24	0.49	39.8	1.1

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	4	-	-	-	9.4	5	1.74	0.24	13.8	1.8

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	5	1.26	0.49	38.7	1.2

Blood Gases - Sodium (mmol/L)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	5	136.8	3.4	2.5	135	3	-	-	-	169

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	5	97.0	6.7	6.9	100	4	-	-	-	161

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	3	-	-	-	169

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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Hemoglobin A1c Methods	387	8.84	0.43	4.9	8.9	383	12.22	0.56	4.6	12.3
All Method	400	8.83	0.45	5.1	8.9	393	12.22	0.59	4.8	12.3
Alfa Wassermann ACE HbA1C	9	9.21	0.74	8.1	9.7	10	12.49	0.86	6.9	12.9
Bayer DCA 2000/+	178	8.93	0.23	2.6	9.0	177	12.30	0.34	2.8	12.3
Beckman Synchron HbA1C	25	8.36	0.37	4.5	8.3	26	12.02	0.57	4.8	12.1
Bio-Rad D-10 HbA1C	13	8.84	0.20	2.2	8.9	13	12.41	0.31	2.5	12.4
Bio-Rad DiaSTAT	6	8.25	0.35	4.3	8.5	6	11.23	0.42	3.7	11.5
Bio-Rad Variant II	5	8.84	0.30	3.4	8.8	5	12.50	0.60	4.8	12.5
Cholestech GDx	6	8.77	0.89	10.2	8.7	6	11.72	0.96	8.2	11.9
Dade Dimension HA1C	45	8.40	0.31	3.7	8.3	45	11.63	0.40	3.5	11.7
Metrika A1C Now	6	8.22	0.52	6.4	8.3	6	11.53	0.78	6.7	11.5
NycoCard Hemoglobin A1C	5	6.96	0.67	9.6	6.8	5	9.64	1.16	12.1	9.2
Other HbA1C Method	12	8.94	0.64	7.2	9.1	12	12.07	0.60	5.0	12.1
Polymedco Hemoglobin A1C	9	9.41	0.81	8.6	9.5	8	13.70	0.66	4.8	13.8
Roche Cobas Mira A1C	21	8.90	0.52	5.8	9.0	20	12.42	0.78	6.3	12.5
Roche Integra A1C	17	9.22	0.25	2.7	9.3	16	12.74	0.42	3.3	12.8
TOSOH 2.2 Plus	17	9.28	0.34	3.6	9.3	17	12.95	0.52	4.0	12.9
TOSOH G7	7	8.93	0.08	0.8	8.9	7	12.44	0.08	0.6	12.5

B-Type Natriuretic Peptide (BNP)

<u>Method</u>	Specimen BNP-5					Specimen BNP-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	69	5.2	1.0	20.0	5	71	450.5	90.7	20.1	459
Biosite Triage	62	5.1	0.5	9.2	5	64	456.8	65.0	14.2	461

NT-proBNP

One participant reported results for NT-proBNP. The vendor assay values for specimens BNP-5 and BNP-6 are 18 pg/mL and 750 pg/mL, respectively.

BNP (pg/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-11					Specimen TCK-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	7	131.9	21.4	16.2	132	7	2144.3	303.5	14.2	2140
<u>Method</u>	Specimen TCK-13					Specimen TCK-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	7	4224.3	635.6	15.0	4300	7	499.4	45.7	9.2	502
<u>Method</u>	Specimen TCK-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	5.0	0	0	5					

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

<u>Method</u>	Specimen TCK-11					Specimen TCK-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	5.4	1.2	22.1	5	8	46.0	3.7	8.1	47
<u>Method</u>	Specimen TCK-13					Specimen TCK-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	9	64.3	11.9	18.4	66	8	8.4	1.3	15.6	8
<u>Method</u>	Specimen TCK-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	9	1.0	0.0	0.0	1					

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

<u>Method</u>	Specimen TCK-11					Specimen TCK-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	7	277.1	53.9	19.5	275	7	1744.3	306.3	17.6	1740
<u>Method</u>	Specimen TCK-13					Specimen TCK-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	7	830.0	160.0	19.3	777	7	1178.0	172.8	14.7	1130
<u>Method</u>	Specimen TCK-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	100.0	0.0	0.0	100					

Myoglobin (ng/mL) – Biosite Triage Cardiac Panel

<u>Method</u>	Specimen TCK-11					Specimen TCK-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	112.5	14.2	12.6	118	8	402.1	67.1	16.7	386
<u>Method</u>	Specimen TCK-13					Specimen TCK-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	397.9	76.6	19.2	416	8	145.5	16.4	11.3	147
<u>Method</u>	Specimen TCK-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	18.0	6.1	33.9	17					

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

<u>Method</u>	Specimen TCK-11					Specimen TCK-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	0.416	0.095	22.9	0.47	9	20.411	5.464	26.8	20.50
<u>Method</u>	Specimen TCK-13					Specimen TCK-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	8	27.025	4.129	15.3	30.00	8	1.290	0.273	21.2	1.35
<u>Method</u>	Specimen TCK-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Biosite Triage	9	0.050	0.000	0.0	0.05					

CK-MB (ng/mL) Quantitative

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	32	57.14	24.41	42.7	55.0	34	33.31	13.04	39.2	37.9
Abbott IMx	5	88.58	8.70	9.8	92.4	6	42.23	4.35	10.3	43.5
Biosite Triage	9	33.62	8.47	25.2	36.0	9	13.72	2.62	19.1	14.2
Dade Dimension/AR/ES/RxL/Xpand	5	43.30	14.65	33.8	47.0	6	38.47	3.09	8.0	39.0

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	34	45.83	17.03	37.2	54.1	33	110.84	44.55	40.2	124.3
Abbott IMx	6	57.82	5.61	9.7	58.2	5	140.10	12.15	8.7	144.4
Biosite Triage	9	19.49	3.49	17.9	19.6	9	46.60	8.65	18.6	44.1
Dade Dimension/AR/ES/RxL/Xpand	6	48.85	2.89	5.9	48.0	6	121.53	3.66	3.0	123.3

<u>Method</u>	Specimen CK-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	33	70.03	26.75	38.2	79.0
Abbott IMx	5	92.14	5.72	6.2	90.9
Biosite Triage	9	31.37	4.00	12.7	29.3
Dade Dimension/AR/ES/RxL/Xpand	6	76.07	3.18	4.2	76.2

CK-MB (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12		Specimen CK-13	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	4	1	4	1	5	-
LifeSign MI	3	1	3	1	4	-
Spectral Cardiac STATus	1	-	1	-	1	-

<u>Method</u>	Specimen CK-14		Specimen CK-15	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	5	-	5	-
LifeSign MI	4	-	4	-
Spectral Cardiac STATus	1	-	1	-

Myoglobin (Quantitative)

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	20	43.02	25.78	59.9	45.9	20	218.83	154.40	70.6	195.0
Biosite Triage	8	45.68	12.23	26.8	45.9	8	149.00	30.91	20.7	162.0

Myoglobin (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	5	5	-
LifeSign MI	-	4	4	-
Spectral Cardiac STATus	-	1	1	-

Troponin I (ng/mL) Quantitative

<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>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	37	2.03	1.20	59.2	2.4	37	11.46	6.58	57.4	14.1
Biosite Triage	11	0.58	0.15	26.4	0.6	11	3.02	0.87	28.8	2.7
Dade Dimension/AR/ES/RxL/Xpand	7	3.41	0.64	18.9	3.3	7	19.13	2.49	13.0	18.2
Dade Stratus CS	11	2.86	0.31	10.9	2.9	11	15.10	1.11	7.3	15.2

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	4	1	5	-
LifeSign MI	3	1	4	-
Spectral Cardiac STATUS	1	-	1	-

Troponin T (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
All Methods	-	1	1	-

PSA (ng/mL)

<u>Method</u>	Specimen PS-5					Specimen PS-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	334	30.75	4.62	15.0	29.5	332	20.73	2.95	14.2	19.7
Abbott AxSYM	10	26.99	3.91	14.5	28.4	10	19.27	2.57	13.4	18.8
Abbott AxSYM Total PSA	29	29.06	1.84	6.3	29.2	30	18.91	1.65	8.7	19.2
Abbott IMx	28	27.70	1.90	6.9	27.4	29	18.92	1.01	5.3	18.8
Abbott IMx Total PSA	61	27.47	1.53	5.6	27.4	61	18.48	1.03	5.6	18.5
Beckman ACCESS	7	36.90	1.42	3.9	36.8	7	25.14	0.88	3.5	25.0
Beckman ACCESS Hybritech PSA	25	36.50	1.82	5.0	36.6	25	24.98	1.32	5.3	25.1
bioMerieux Vitek, Mini Vidas	32	38.24	2.01	5.2	38.7	33	25.50	1.18	4.6	25.6
Chiron Diagnostics ACS:180	6	29.52	2.70	9.2	30.1	6	20.38	1.11	5.5	20.9
Dade Dimension TPSA	31	32.67	1.60	4.9	33.0	31	21.73	1.11	5.1	21.7
Dade Dimension/AR/ES/RxL/Xpand	14	33.41	1.33	4.0	33.8	14	22.02	0.98	4.5	21.9
DPC Immulite/1000	18	29.18	1.36	4.7	29.3	18	20.46	1.06	5.2	20.6
Qualigen FastPack	10	50.00	0.00	0.0	50.0	9	41.83	5.62	13.4	41.4
Roche Elecsys 1010/2010	12	35.76	3.43	9.6	37.5	12	23.97	2.36	9.9	24.8
TOSOH AIA	28	28.24	1.61	5.7	28.7	28	18.94	1.03	5.4	18.9
TOSOH ST AIA	20	27.83	0.93	3.3	28.0	20	18.52	0.62	3.4	18.5
All TOSOH Instruments	48	28.07	1.37	4.9	28.1	48	18.76	0.90	4.8	18.6

PAP (ng/mL)

Two participants reported results for PAP. The vendor assay values for specimens PS-5 and PS-6 are 25.8 ng/mL and 18.1 ng/mL, respectively.

Alpha-fetoprotein (ng/mL)

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	8	195.1	20.9	10.7	201	8	4.0	0.5	13.4	4

Beta-2 microglobulin

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	8	2.371	0.280	11.8	2.35	8	0.222	0.029	13.1	0.23

CA 125 (U/mL)

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	21	88.4	10.6	12.0	89	21	17.1	1.9	10.8	17
TOSOH AIA	6	93.0	11.7	12.6	101	6	18.2	2.2	12.3	19

CA 15-3 (U/mL)

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	18	66.8	6.0	8.9	69	18	17.4	1.8	10.1	18
Abbott AxSYM	5	69.4	1.8	2.6	70	5	19.2	0.8	4.4	19
Beckman ACCESS	5	58.8	3.8	6.4	58	5	15.0	0.7	4.7	15

CA 27/29

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All TOSOH Instruments	10	72.1	7.7	10.7	74	10	18.6	1.7	9.2	19
All Method	10	72.1	7.7	10.7	74	10	18.6	1.7	9.2	19
TOSOH AIA	5	68.8	6.6	9.6	68	5	18.0	1.6	8.8	18
TOSOH ST AIA	5	75.4	7.9	10.5	74	5	19.2	1.8	9.3	19

CA 19-9 (U/mL)

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	5	45.4	4.6	10.0	45	5	9.4	2.7	28.7	10

CEA (ng/mL)

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	14	29.09	3.12	10.7	28.9	14	3.11	0.42	13.5	3.1
All TOSOH Instruments	8	38.59	2.67	6.9	38.0	8	4.72	0.29	6.1	4.8
All Method	31	31.20	5.18	16.6	29.6	31	3.52	0.81	23.0	3.2
Abbott AxSYM	6	28.93	3.21	11.1	30.3	6	2.90	0.30	10.5	3.0
Abbott IMx	8	29.21	3.27	11.2	28.8	8	3.26	0.44	13.6	3.3
TOSOH AIA	5	37.08	1.40	3.8	37.6	5	4.60	0.28	6.1	4.7

Free PSA (ng/mL)

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	16	31.977	6.681	20.9	30.75	17	0.279	0.080	28.6	0.26
Beckman Hybritech Free PSA	5	39.720	4.554	11.5	38.28	6	0.377	0.026	6.9	0.38

PSA (ng/mL)

<u>Reagent/Instrument</u>	Specimen TM-11					Specimen TM-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All TOSOH Instruments	10	28.54	2.70	9.4	28.5	10	0.53	0.07	12.7	0.5
All Method	56	31.90	6.27	19.7	31.6	54	0.52	0.09	17.3	0.5
Abbott AxSYM Total PSA	9	31.16	2.33	7.5	31.1	9	0.46	0.05	11.6	0.5
Abbott IMx Total PSA	9	29.68	1.59	5.4	29.3	9	0.44	0.10	22.8	0.4
Beckman ACCESS Hybritech PSA	10	39.36	2.28	5.8	40.0	10	0.61	0.03	5.2	0.6
TOSOH AIA	7	29.19	3.03	10.4	29.1	7	0.54	0.08	14.5	0.5

CEA (ng/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	10	23.83	1.76	7.4	23.8	9	16.01	1.55	9.7	16.0
All TOSOH Instruments	8	34.62	1.43	4.1	35.0	8	23.86	1.07	4.5	23.8
All Method	28	27.10	5.10	18.8	25.4	27	18.60	3.70	19.9	16.9
Abbott IMx	10	23.83	1.76	7.4	23.8	9	16.01	1.55	9.7	16.0
Beckman ACCESS	8	23.96	1.47	6.1	23.7	8	16.52	0.99	6.0	16.5
TOSOH AIA	5	34.02	1.34	3.9	33.9	5	23.22	0.43	1.8	23.3

Estradiol (pg/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	26	704.2	279.9	39.8	768	29	549.1	211.3	38.5	585
Beckman ACCESS	8	917.5	36.2	3.9	921	11	713.7	42.7	6.0	719

Ferritin (ng/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Immulite Instruments	15	212.8	14.5	6.8	213	14	148.9	4.5	3.0	149
All TOSOH Instruments	22	198.2	11.9	6.0	201	23	137.2	7.8	5.7	137
All Method	105	209.7	21.6	10.3	206	107	146.3	14.2	9.7	145
Beckman ACCESS	23	196.7	7.7	3.9	196	24	138.0	6.5	4.7	137
bioMerieux Vitek, Mini Vidas	6	249.8	17.0	6.8	250	5	170.0	8.7	5.1	170
Chiron Diagnostics ACS:180	5	215.2	16.6	7.7	215	5	150.8	9.6	6.4	152
Dade Dimension/AR/ES/RxL/Xpand	9	228.0	13.5	5.9	225	10	161.7	6.8	4.2	163
DPC Immulite/1000	14	214.6	13.0	6.1	214	14	151.0	8.5	5.6	150
Polymedco	6	210.3	8.4	4.0	214	6	158.2	8.2	5.2	157
Roche Elecsys 1010/2010	5	230.0	10.5	4.5	233	5	161.2	6.3	3.9	163
TOSOH AIA	16	198.6	12.9	6.5	202	17	137.5	8.7	6.3	137
TOSOH ST AIA	6	197.2	10.0	5.1	199	6	136.3	5.4	4.0	139

Folate (ng/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	53	8.95	1.50	16.8	8.8	55	6.03	1.08	17.9	5.9
Beckman ACCESS	20	8.85	0.57	6.5	9.0	21	5.90	0.55	9.3	5.9
Chiron Diagnostics ACS:180	5	12.30	2.12	17.2	12.0	5	6.94	1.05	15.1	6.7
TOSOH AIA	17	7.99	1.48	18.6	7.5	17	5.80	1.34	23.1	5.1

FSH (mIU/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	7	40.91	2.33	5.7	39.6	7	28.69	2.67	9.3	27.5
All Immulite Instruments	8	50.89	2.70	5.3	51.7	8	36.16	3.29	9.1	36.2
All TOSOH Instruments	8	41.00	2.51	6.1	41.4	8	29.26	1.90	6.5	29.2
All Method	48	46.52	5.65	12.1	45.1	48	32.69	3.97	12.2	32.2
Abbott AxSYM	7	40.91	2.33	5.7	39.6	7	28.69	2.67	9.3	27.5
Beckman ACCESS	14	44.91	1.99	4.4	44.9	14	31.81	1.40	4.4	31.9
DPC Immulite/1000	6	50.35	2.85	5.7	51.7	6	36.17	3.90	10.8	36.6
TOSOH ST AIA	5	40.58	2.07	5.1	40.5	5	29.04	1.77	6.1	29.0

Homocysteine (µmol/L)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	43	25.1	2.6	10.5	25	43	19.0	2.1	10.9	19
Abbott AxSYM	7	25.0	1.7	6.9	25	7	18.6	1.1	6.1	18
Abbott IMx	13	24.2	1.7	6.9	25	13	17.8	1.4	7.7	18
Carolina Liquid/All instrument	10	26.7	3.6	13.3	28	10	20.2	2.7	13.4	21
EQual Diag. / Any Instrument	5	26.8	1.3	4.9	27	5	20.8	1.3	6.3	21

LH (mIU/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Immulite Instruments	8	37.64	1.75	4.7	38.1	8	26.31	1.46	5.6	27.0
All Method	39	31.07	4.36	14.0	30.1	39	21.77	3.19	14.7	21.4
Beckman ACCESS	12	28.32	1.40	4.9	29.0	12	19.76	1.03	5.2	20.0
DPC Immulite/1000	6	37.93	1.77	4.7	39.0	6	26.63	1.53	5.7	27.1

PAP (ng/mL)

One participant reported results for PAP. The vendor assay values for specimens SC-5 and SC-6 are 25.8 ng/mL and 18.1 ng/mL, respectively.

Progesterone (ng/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	22	33.80	5.85	17.3	33.9	22	25.64	3.74	14.6	26.3
bioMerieux Vitek, Mini Vidas	5	38.14	3.35	8.8	36.3	5	28.92	2.06	7.1	29.1

Prolactin (ng/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Abbott Instruments	6	21.73	2.51	11.5	22.7	6	14.88	1.63	11.0	15.4
All Immulite Instruments	8	15.79	1.80	11.4	16.7	8	10.90	1.15	10.6	11.5
All TOSOH Instruments	7	14.10	1.28	9.0	13.9	7	9.89	0.95	9.6	10.1
All Method	44	18.29	3.47	19.0	18.7	42	12.83	2.53	19.7	12.8
Abbott AxSYM	6	21.73	2.51	11.5	22.7	6	14.88	1.63	11.0	15.4
Beckman ACCESS	12	19.85	1.05	5.3	19.9	10	14.46	0.88	6.1	14.3
DPC Immulite/1000	7	16.07	1.74	10.9	16.7	7	11.09	1.11	10.0	11.5

Testosterone (ng/dL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	59	662.2	70.6	10.7	672	57	543.4	81.1	14.9	531
Abbott AxSYM	5	463.6	94.1	20.3	473	5	360.6	68.1	18.9	403
Beckman ACCESS	13	640.0	36.8	5.8	632	13	515.5	28.7	5.6	512
Chiron Diagnostics ACS:180	5	653.4	37.3	5.7	645	5	521.2	33.0	6.3	509
DPC Immulite/1000	13	699.7	37.0	5.3	689	12	592.2	50.9	8.6	605

Vitamin B₁₂ (pg/mL)

<u>Reagent/Instrument</u>	Specimen SC-5					Specimen SC-6				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	57	1118.6	128.5	11.5	1126	61	934.6	97.6	10.4	916
Beckman ACCESS	21	1036.6	83.5	8.1	1019	22	872.1	58.9	6.8	866
Chiron Diagnostics ACS:180	4	-	-	-	1080	5	862.0	40.8	4.7	872
TOSOH AIA	18	1230.5	73.6	6.0	1244	20	1024.0	76.1	7.4	1039

Whole Blood Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen WBG-11					Specimen WBG-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	456	128.4	21.4	16.6	121	464	85.7	17.3	20.1	80
Bayer Contour	41	104.7	3.7	3.5	104	40	70.1	2.3	3.3	70
Bayer Glucometer Elite / XL	54	113.2	7.5	6.7	114	55	70.6	6.1	8.6	72
Hypoguard Assure	5	189.8	24.9	13.1	184	5	138.0	15.1	11.0	144
Lifescan One Touch Basic	14	136.9	9.2	6.7	135	14	95.9	7.2	7.5	97
Lifescan One Touch II-WB	9	133.2	13.1	9.8	129	11	93.5	13.8	14.7	96
Lifescan One Touch Ultra	84	131.1	7.4	5.6	132	84	83.4	6.1	7.3	84
Lifescan Surestep	43	155.9	9.3	6.0	155	45	112.2	7.8	6.9	111
Medisense Precis. Xtra/Optium	6	158.2	16.9	10.7	163	10	107.5	17.3	16.1	115
Medisense Precision PCx	10	163.4	9.4	5.8	168	10	104.4	8.4	8.0	104
Roche Accu-Chek Active	5	184.4	7.6	4.1	185	5	125.2	1.6	1.3	126
Roche Accu-Chek Advantage/Comp/GTS	125	116.8	4.2	3.6	117	123	77.1	3.3	4.3	77
Roche Accu-Chek Aviva	10	186.7	11.1	5.9	186	10	126.7	5.3	4.2	126
Roche Accu-Chek Inform	19	116.5	6.5	5.6	117	19	75.7	5.2	6.8	75
TheraSense FreeStyle	9	137.7	4.4	3.2	138	9	91.1	4.8	5.3	90

Whole Blood Glucose (mg/dL)

Specimen WBG-13

<u>Reagent/Instrument</u>	Specimen WBG-13					Specimen WBG-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	70	194.3	39.9	20.5	184	71	269.0	56.0	20.8	260
Bayer Glucometer Elite / XL	17	154.9	9.3	6.0	155	17	207.1	13.8	6.7	206
Lifescan One Touch Basic	5	183.4	3.4	1.8	183	5	241.6	6.8	2.8	244
Lifescan One Touch Ultra	14	191.1	9.3	4.8	193	14	260.8	13.3	5.1	264
Lifescan Surestep	5	258.8	41.1	15.9	234	5	365.6	38.6	10.6	341
Medisense Precision PCx	5	239.4	12.9	5.4	247	5	331.6	16.0	4.8	338
Roche Accu-Chek Advantage/Comp/GTS	12	176.6	7.8	4.4	177	12	257.1	15.0	5.9	262

Specimen WBG-15

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Method	71	318.5	55.6	17.5	305
Bayer Glucometer Elite / XL	17	257.6	19.3	7.5	257
Lifescan One Touch Basic	5	305.2	13.1	4.3	297
Lifescan One Touch Ultra	14	302.3	14.9	4.9	299
Lifescan Surestep	5	408.0	30.2	7.4	393
Medisense Precision PCx	5	397.4	30.6	7.7	393
Roche Accu-Chek Advantage/Comp/GTS	12	319.3	17.1	5.3	324

Urine Drug Screen

Alcohol

Specimen UDS-5

Specimen UDS-6

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	6	6	-	6	-	6
Beckman Synchron	2	2	-	2	-	2
Dade Behring EMIT II	3	3	-	3	-	3
Roche On Site	1	1	-	1	-	1

Amphetamines

Specimen UDS-5

Specimen UDS-6

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	63	-	63	63	-	63
Abbott AxSYM	1	-	1	1	-	1
ACON Laboratories	2	-	2	2	-	2
American BioMedica Rapid Drug	1	-	1	1	-	1
Beckman Synchron	2	-	2	2	-	2
BioSite Diagnostics Triage	17	-	17	17	-	17
Dade Behring EMIT II	8	-	8	8	-	8
Instant Technologies i Cassette	1	-	1	1	-	1
Instant Technologies i Screen	4	-	4	4	-	4
MEDTOX Diagnostics	11	-	11	11	-	11
Noble Medical Inc.	5	-	5	5	-	5
Pharmatech QuickScreen Pro	6	-	6	6	-	6

Barbiturates

<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	44	-	44	44	43	1
Abbott AxSYM	2	-	2	2	2	-
ACON Laboratories	2	-	2	2	1	1
American BioMedica Rapid Drug	1	-	1	1	1	-
Beckman Synchron	2	-	2	2	2	-
BioSite Diagnostics Triage	17	-	17	17	17	-
Dade Behring EMIT II	7	-	7	7	7	-
Instant Technologies i Screen	4	-	4	4	4	-
MEDTOX Diagnostics	4	-	4	4	4	-
Noble Medical Inc.	2	-	2	2	2	-

Benzodiazepines

<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	46	-	46	46	-	46
Abbott AxSYM	2	-	2	2	-	2
ACON Laboratories	2	-	2	2	-	2
American BioMedica Rapid Drug	2	-	2	2	-	2
Beckman Synchron	2	-	2	2	-	2
BioSite Diagnostics Triage	17	-	17	17	-	17
Dade Behring EMIT II	7	-	7	7	-	7
Instant Technologies i Screen	4	-	4	4	-	4
MEDTOX Diagnostics	4	-	4	4	-	4
Noble Medical Inc.	2	-	2	2	-	2

Cannabinoids (THC)

<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	66	66	-	66	1	65
Abbott AxSYM	2	2	-	2	-	2
ACON Laboratories	2	2	-	2	-	2
American BioMedica Rapid Drug	2	2	-	2	-	2
Beckman Synchron	2	2	-	2	-	2
BioSite Diagnostics Triage	17	17	-	17	-	17
Dade Behring EMIT II	8	8	-	8	-	8
InstaCheck Drug Screen	1	1	-	1	-	1
Instant Technologies i Cassette	1	1	-	1	-	1
Instant Technologies i Screen	4	4	-	4	-	4
MEDTOX Diagnostics	11	11	-	11	-	11
Noble Medical Inc.	5	5	-	5	-	5
Pharmatech QuickScreen Pro	6	6	-	6	-	6

Cocaine Metabolites

<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	66	-	66	66	66	-
Abbott AxSYM	2	-	2	2	2	-
ACON Laboratories	2	-	2	2	2	-
American BioMedica Rapid Drug	2	-	2	2	2	-
Beckman Synchron	2	-	2	2	2	-
BioSite Diagnostics Triage	17	-	17	17	17	-
Dade Behring EMIT II	8	-	8	8	8	-
InstaCheck Drug Screen	1	-	1	1	1	-
Instant Technologies i Cassette	1	-	1	1	1	-
Instant Technologies i Screen	4	-	4	4	4	-
MEDTOX Diagnostics	11	-	11	11	11	-
Noble Medical Inc.	5	-	5	5	5	-
Pharmatech QuickScreen Pro	6	-	6	6	6	-

MDMA

<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	4	-	4	4	-	4
American BioMedica Rapid Drug	1	-	1	1	-	1
InstaCheck Drug Screen	1	-	1	1	-	1
MEDTOX Diagnostics	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1

Methadone

<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	22	-	22	22	1	21
Abbott AxSYM	2	-	2	2	-	2
ACON Laboratories	2	-	2	2	1	1
American BioMedica Rapid Drug	1	-	1	1	-	1
Beckman Synchron	2	-	2	2	-	2
Dade Behring EMIT II	4	-	4	4	-	4
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Screen	3	-	3	3	-	3
MEDTOX Diagnostics	3	-	3	3	-	3
Noble Medical Inc.	1	-	1	1	-	1

Methamphetamines

<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	36	1	35	36	1	35
Abbott AxSYM	1	-	1	1	-	1
ACON Laboratories	2	-	2	2	-	2
American BioMedica Rapid Drug	2	-	2	2	-	2
BioSite Diagnostics Triage	7	-	7	7	-	7
InstaCheck Drug Screen	1	-	1	1	-	1
Instant Technologies i Screen	4	-	4	4	-	4
MEDTOX Diagnostics	9	1	8	9	1	8
Noble Medical Inc.	2	-	2	2	-	2
Pharmatech QuickScreen Pro	6	-	6	6	-	6

Methaqualone

<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	4	4	-	4	-	4
Beckman Synchron	1	1	-	1	-	1
Dade Behring EMIT II	3	3	-	3	-	3

Opiates

<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	66	-	66	65	61	4
Abbott AxSYM	2	-	2	2	2	-
ACON Laboratories	2	-	2	2	2	-
American BioMedica Rapid Drug	2	-	2	2	2	-
Beckman Synchron	2	-	2	2	2	-
BioSite Diagnostics Triage	17	-	17	16	16	-
Dade Behring EMIT II	8	-	8	8	8	-
InstaCheck Drug Screen	1	-	1	1	1	-
Instant Technologies i Cassette	1	-	1	1	1	-
Instant Technologies i Screen	4	-	4	4	4	-
MEDTOX Diagnostics	11	-	11	11	10	1
Noble Medical Inc.	5	-	5	5	2	3
Pharmatech QuickScreen Pro	6	-	6	6	6	-

Phencyclidine (PCP)

<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	52	-	52	52	52	-
Abbott AxSYM	2	-	2	2	2	-
ACON Laboratories	2	-	2	2	2	-
American BioMedica Rapid Drug	1	-	1	1	1	-
Beckman Synchron	2	-	2	2	2	-
BioSite Diagnostics Triage	15	-	15	15	15	-
Dade Behring EMIT II	7	-	7	7	7	-
InstaCheck Drug Screen	1	-	1	1	1	-
Instant Technologies i Cassette	1	-	1	1	1	-
Instant Technologies i Screen	4	-	4	4	4	-
MEDTOX Diagnostics	8	-	8	8	8	-
Noble Medical Inc.	5	-	5	5	5	-

Propoxyphene

<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	15	-	15	15	-	15
American BioMedica Rapid Drug	1	-	1	1	-	1
Beckman Synchron	2	-	2	2	-	2
Dade Behring EMIT II	5	-	5	5	-	5
MEDTOX Diagnostics	4	-	4	4	-	4
Noble Medical Inc.	1	-	1	1	-	1

Urine Drug Screen

Tricyclic Antidepressants

<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	20	-	20	20	20	-
ACON Laboratories	1	-	1	1	1	-
American BioMedica Rapid Drug	1	-	1	1	1	-
BioSite Diagnostics Triage	9	-	9	9	9	-
Instant Technologies i Screen	3	-	3	3	3	-
MEDTOX Diagnostics	3	-	3	3	3	-
Noble Medical Inc.	1	-	1	1	1	-

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