

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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Chemistry

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2004 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	Lactate Dehydrogenase	$\pm 20\%$
Acid Phosphatase	Not Evaluated	LD1	80% Consensus
Albumin	$\pm 10\%$	LDL Cholesterol	± 3 SD
Alpha-fetoprotein	± 3 SD	Lipase	Not Evaluated
Alkaline Phosphatase	$\pm 30\%$	LH	± 3 SD
ALT (SGPT)	$\pm 20\%$	Lithium	± 0.3 mmol/L or 20% *
Amylase	$\pm 30\%$	Magnesium	$\pm 25\%$
Apolipoprotein A1, B	Not Evaluated	Myoglobin (Qualitative)	80% Consensus
AST (SGOT)	$\pm 20\%$	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	$\pm 25\%$
BNP	± 3 SD	Phosphorus	± 3 SD
CA 125	± 3 SD	Potassium	± 0.5 mmol/L
CA 15-3	± 3 SD	Progesterone	± 3 SD
CA 19-9	± 3 SD	Prolactin	± 3 SD
Calcium	± 1.0 mg/dL	Protein, Total	$\pm 10\%$
Calcium, Ionized	Not Evaluated	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
Digoxin	± 0.2 mg/dL or 20% *	T ₄ , Free	± 3 SD
Estradiol	± 3 SD	Testosterone	± 3 SD
Ferritin	± 3 SD	Theophylline	$\pm 25\%$
Fluid Differential	± 3 SD	Thyroxine, Total T ₄	± 1.0 mcg/dL or 20% *
Fluid RBC	± 3 SD	TIBC	Not Evaluated
Fluid WBC	± 3 SD	Triglyceride	$\pm 25\%$
Folate	± 3 SD	Triiodothyronine, Total T ₃	± 3 SD
Fructosamine	± 3 SD	Troponin I (Qualitative)	Not Evaluated
FSH	± 3 SD	Troponin I (Quantitative)	± 3 SD
GGT	± 3 SD	Troponin T (Qualitative)	80% Consensus
Glucose, Serum	± 6 mg/dL or 10% *	TSH	± 3 SD
Glucose, Whole Blood	± 3 SD	Urea Nitrogen	± 2.0 mg/dL or 9% *
Glycohemoglobin	± 3 SD	Uric Acid	$\pm 17\%$
HDL Cholesterol	$\pm 30\%$	Urine Drug Screen	80% Consensus
HCG, Serum—Qualitative	80% Consensus	Valproic Acid	$\pm 25\%$
HCG, Serum—Quantitative	± 3 SD	Vitamin B ₁₂	± 3 SD
Hematocrit	$\pm 6\%$		
Hemoglobin	$\pm 7\%$		
Homocysteine	± 3 SD		
Iron	$\pm 20\%$		

*Whichever is greater

NOTE: International laboratories that do not have a corresponding US peer group listed in this participant summary, please use the All Method statistics for comparison.

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	32	156.8	1.3	0.8	157	32	111.8	0.7	0.6	112
<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	32	134.2	0.8	0.6	134	32	111.6	0.8	0.7	112
<u>Instrument</u>	<u>Specimen IST-15</u>									
i-STAT	32	156.8	1.3	0.8	157					

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	32	6.57	0.07	1.1	6.6	33	2.73	0.05	1.7	2.7
<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	32	4.52	0.04	0.9	4.5	33	2.72	0.04	1.6	2.7
<u>Instrument</u>	<u>Specimen IST-15</u>									
i-STAT	32	6.63	0.06	0.9	6.6					

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	26	128.6	1.0	0.8	129	26	66.5	0.8	1.1	67
<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	26	99.0	0.6	0.6	99	25	66.5	0.6	0.9	66
<u>Instrument</u>	<u>Specimen IST-15</u>									
i-STAT	26	128.7	0.7	0.5	129					

Urea (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	26	57.8	3.1	5.4	58	26	6.3	0.5	7.5	6
<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	26	28.7	0.9	3.2	29	26	6.2	0.4	6.5	6
<u>Instrument</u>	<u>Specimen IST-15</u>									
i-STAT	26	58.3	3.0	5.2	58					

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	28	48.9	1.3	2.6	49	28	333.8	3.8	1.2	334
<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	27	179.9	2.2	1.2	179	28	333.5	3.4	1.0	334
<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	27	48.9	1.4	2.9	49					

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	23	46.0	1.0	2.1	46	24	22.7	1.0	4.4	23
<u>Instrument</u>	Specimen IST-13					Specimen IST-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	25	34.4	1.8	5.1	34	24	22.6	0.9	4.1	23
<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	25	46.4	1.4	3.1	46					

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	24	15.8	0.5	3.0	16	24	7.7	0.5	6.3	8
<u>Instrument</u>	Specimen IST-13					Specimen IST-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
i-STAT	25	11.7	0.6	5.2	12	25	7.7	0.7	8.8	8
<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	25	15.9	0.5	3.1	16					

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	15	5.29	0.16	3.0	5.3	15	0.89	0.07	8.4	0.9
<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	15	3.01	0.08	2.7	3.0	14	0.90	0.07	7.6	0.9
<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	15	5.31	0.14	2.7	5.3					

Albumin (g/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>
Beckman										
Beckman Synchron	49	2.42	0.07	3.0	2.4	48	1.71	0.05	2.7	1.7
Dade / Dupont										
Dade Dimension/AR/ES/RxL/Xpa	62	2.45	0.07	2.7	2.5	64	1.70	0.05	3.2	1.7
DCL										
Roche Cobas Fara/Mira/Bio	12	3.08	0.19	6.1	3.1	12	2.23	0.12	5.5	2.2
All Chemistry Instruments	17	3.12	0.19	6.2	3.1	17	2.26	0.13	5.8	2.3
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	10	3.31	0.12	3.6	3.3	10	2.43	0.09	3.9	2.4
ATAC 8000	55	3.22	0.15	4.8	3.2	55	2.32	0.10	4.2	2.3
All Chemistry Instruments	65	3.24	0.15	4.7	3.2	65	2.34	0.10	4.5	2.3
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	3.26	0.09	2.7	3.2	5	2.30	0.07	3.1	2.3
All Chemistry Instruments	7	3.23	0.13	3.9	3.2	7	2.31	0.07	3.0	2.3
Olympus										
Olympus AU	7	3.19	0.07	2.2	3.2	7	2.26	0.05	2.4	2.3
Pointe Scientific/Landmark										
All Chemistry Instruments	10	3.49	0.24	6.8	3.5	10	2.56	0.19	7.4	2.6
Roche COBAS										
Roche Cobas Fara/Mira/Bio	85	3.53	0.14	4.1	3.5	85	2.59	0.11	4.2	2.6
Roche Integra	11	3.17	0.09	2.9	3.2	11	2.26	0.08	3.6	2.2
All Chemistry Instruments	96	3.49	0.18	5.1	3.5	96	2.56	0.15	5.8	2.6
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	65	3.26	0.12	3.7	3.2	64	2.41	0.08	3.1	2.4
ThermoDMA										
Roche Cobas Fara/Mira/Bio	13	3.45	0.24	6.9	3.4	13	2.40	0.21	8.7	2.5
All Chemistry Instruments	19	3.50	0.24	6.8	3.5	19	2.45	0.21	8.6	2.5
VITROS										
VITROS 250,400,500,700,750,9	59	2.87	0.08	2.8	2.9	59	1.86	0.06	3.2	1.9

Specimen CH-15

All Bromcresol Purple Reagents	123	1.87	0.07	3.5	1.9
All Bromcresol Green Reagents	376	2.56	0.27	10.4	2.6
All Methods	509	2.39	0.38	15.7	2.5
Abaxis Piccolo					
Abaxis Piccolo	6	2.07	0.18	8.5	2.2
Abbott Aeroset Albumin (BCG)					
Abbott Aeroset	7	2.99	0.20	6.5	3.1
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	10	2.75	0.13	4.6	2.8
Beckman					
Beckman Synchron	48	1.86	0.06	3.2	1.9
Dade / Dupont					
Dade Dimension/AR/ES/RxL/Xpa	63	1.87	0.06	3.2	1.9
DCL					
Roche Cobas Fara/Mira/Bio	12	2.46	0.17	6.8	2.5
All Chemistry Instruments	17	2.49	0.16	6.3	2.5
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	10	2.64	0.12	4.5	2.7
ATAC 8000	55	2.55	0.09	3.5	2.5
All Chemistry Instruments	65	2.56	0.10	3.9	2.6

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>
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	5	2.50	0.07	2.8	2.5
All Chemistry Instruments	7	2.53	0.10	3.8	2.5
Olympus					
Olympus AU	7	2.47	0.05	2.0	2.5
Pointe Scientific/Landmark					
All Chemistry Instruments	10	2.76	0.21	7.7	2.8
Roche COBAS					
Roche Cobas Fara/Mira/Bio	82	2.80	0.11	4.1	2.8
Roche Integra	11	2.46	0.09	3.8	2.5
All Chemistry Instruments	96	2.75	0.17	6.1	2.8
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	65	2.59	0.11	4.1	2.6
ThermoDMA					
Roche Cobas Fara/Mira/Bio	13	2.60	0.25	9.6	2.6
All Chemistry Instruments	19	2.69	0.26	9.8	2.7
VITROS					
VITROS 250,400,500,700,750,9	59	2.11	0.06	2.9	2.1

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 Methods	335	1.47	0.50	34.0	1.5	335	1.29	0.43	33.2	1.3
Abbott Aeroset										
Abbott Aeroset	9	1.64	0.11	6.9	1.7	9	1.46	0.09	6.1	1.5
Beckman										
Beckman Synchron	33	1.12	0.11	9.9	1.1	33	0.99	0.09	9.4	1.0
Dade / Dupont										
Dade Dimension/AR/ES/RxL/Xpa	47	0.80	0.14	17.0	0.8	47	0.71	0.10	14.7	0.7
DCL										
Roche Cobas Fara/Mira/Bio	5	1.40	0.12	8.8	1.4	5	1.26	0.18	14.4	1.3
All Chemistry Instruments	8	1.39	0.15	10.5	1.4	8	1.20	0.16	13.4	1.2
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	6	2.18	0.46	21.2	2.3	6	1.87	0.38	20.2	1.9
ATAC 8000	39	2.12	0.39	18.3	2.1	39	1.89	0.30	16.0	1.9
All Chemistry Instruments	45	2.13	0.39	18.5	2.1	45	1.89	0.31	16.3	1.9
JAS Diagnostics, Inc.										
All Chemistry Instruments	5	1.10	0.26	23.2	1.0	5	1.00	0.29	29.2	0.9
Olympus										
Olympus AU	6	1.87	0.27	14.6	1.8	6	1.67	0.23	13.5	1.6
Pointe Scientific/Landmark										
All Chemistry Instruments	9	1.32	0.63	47.8	1.1	9	1.23	0.54	43.5	1.0
Roche COBAS										
Roche Cobas Fara/Mira/Bio	48	1.45	0.20	13.6	1.5	48	1.27	0.15	11.6	1.3
Roche Integra	12	1.26	0.14	11.5	1.3	12	1.08	0.08	7.7	1.1
All Chemistry Instruments	60	1.42	0.20	14.4	1.5	60	1.23	0.15	12.6	1.3
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	47	1.93	0.29	15.1	1.9	47	1.69	0.20	11.6	1.7
ThermoDMA										
All Chemistry Instruments	7	1.39	0.32	23.4	1.4	7	1.27	0.27	21.2	1.3
VITROS-BuBc and Bc										
VITROS 250,400,500,700,750,9	41	1.49	0.21	14.1	1.5	41	1.24	0.20	16.4	1.2

Bilirubin, 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 Methods	537	2.93	0.36	12.5	2.9	535	2.61	0.30	11.5	2.6
Abaxis Piccolo										
Abaxis Piccolo	6	2.35	0.31	13.1	2.5	6	2.08	0.16	7.7	2.2
Abbott Aeroset										
Abbott Aeroset	10	2.49	0.09	3.5	2.5	10	2.25	0.11	4.8	2.3
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	7	2.84	0.16	5.7	2.9	7	2.50	0.13	5.2	2.5
Beckman										
Beckman Synchron	50	3.11	0.27	8.8	3.1	50	2.77	0.22	7.8	2.8
Carolina Liquid Chemistries										
Beckman Synchron	5	2.72	0.19	7.1	2.7	5	2.44	0.11	4.7	2.4
Dade / Dupont										
Dade Analyst	10	3.03	0.60	19.9	3.2	10	2.88	1.04	36.1	2.7
Dade Dimension/AR/ES/RxL/Xpa	65	2.78	0.33	11.8	2.8	65	2.48	0.25	10.3	2.5
All Chemistry Instruments	74	2.83	0.35	12.4	2.9	73	2.51	0.27	10.7	2.5
DCL										
Roche Cobas Fara/Mira/Bio	13	2.92	0.37	12.6	2.9	13	2.59	0.31	12.0	2.5
All Chemistry Instruments	18	2.94	0.33	11.1	3.0	18	2.60	0.28	10.8	2.5
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	9	3.28	0.22	6.8	3.2	9	2.89	0.16	5.6	2.9
ATAC 8000	58	3.03	0.31	10.2	3.1	58	2.69	0.29	10.8	2.7
All Chemistry Instruments	67	3.06	0.31	10.1	3.1	67	2.71	0.28	10.5	2.7
JAS Diagnostics, Inc.										
All Chemistry Instruments	5	2.92	0.30	10.4	3.0	5	2.68	0.30	11.0	2.8
Olympus										
Olympus AU	7	3.39	0.41	12.0	3.3	7	3.10	0.37	12.1	3.0
Pointe Scientific/Landmark										
All Chemistry Instruments	10	3.04	0.63	20.6	3.1	10	2.75	0.45	16.5	2.8
Roche COBAS										
Roche Cobas Fara/Mira/Bio	84	2.81	0.28	10.0	2.8	85	2.51	0.23	9.3	2.5
Roche Integra	12	2.98	0.29	9.9	3.1	12	2.69	0.25	9.3	2.8
All Chemistry Instruments	96	2.83	0.29	10.2	2.9	97	2.53	0.24	9.5	2.5
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	65	3.18	0.38	12.0	3.2	65	2.85	0.30	10.4	2.9
ThermoDMA										
Roche Cobas Fara/Mira/Bio	8	3.31	0.18	5.5	3.3	8	2.95	0.14	4.8	3.0
All Chemistry Instruments	14	3.21	0.36	11.3	3.3	14	2.90	0.26	9.1	2.9
VITROS - TBIL										
VITROS 250,400,500,700,750,9	54	2.71	0.24	8.8	2.8	53	2.38	0.16	6.8	2.4
VITROS DT/DTII/DT60	26	2.78	0.22	7.9	2.8	26	2.65	0.21	7.9	2.7
All Chemistry Instruments	79	2.74	0.22	8.0	2.8	80	2.46	0.23	9.4	2.5
VITROS										
All Chemistry Instruments	6	2.77	0.22	7.8	2.8	6	2.43	0.05	2.1	2.4

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13					Specimen CH-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	535	1.31	0.22	16.8	1.3	533	4.36	0.41	9.3	4.4
Abaxis Piccolo										
Abaxis Piccolo	6	1.02	0.13	13.1	1.1	6	3.57	0.26	7.2	3.7
Abbott Aeroset										
Abbott Aeroset	10	1.07	0.05	4.5	1.1	10	3.86	0.10	2.5	3.9
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	7	1.16	0.10	8.4	1.2	7	4.26	0.15	3.6	4.3
Beckman										
Beckman Synchron	50	1.51	0.21	14.0	1.5	48	4.35	0.19	4.3	4.4
Carolina Liquid Chemistries										
Beckman Synchron	5	1.28	0.11	8.6	1.3	5	4.00	0.16	4.0	4.0
Dade / Dupont										
Dade Analyst	10	1.22	0.28	22.8	1.3	10	4.46	0.56	12.5	4.5
Dade Dimension/AR/ES/RxL/Xpa	64	1.15	0.15	13.0	1.2	64	4.22	0.29	6.8	4.3
All Chemistry Instruments	73	1.17	0.16	13.6	1.2	73	4.24	0.31	7.4	4.3
DCL										
Roche Cobas Fara/Mira/Bio	13	1.33	0.23	17.2	1.4	13	4.46	0.50	11.1	4.4
All Chemistry Instruments	18	1.29	0.22	16.7	1.3	18	4.51	0.51	11.2	4.4
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	9	1.44	0.12	8.6	1.4	9	4.60	0.26	5.5	4.6
ATAC 8000	56	1.31	0.17	13.2	1.3	55	4.44	0.30	6.8	4.5
All Chemistry Instruments	65	1.33	0.17	12.9	1.3	64	4.47	0.30	6.7	4.5
JAS Diagnostics, Inc.										
All Chemistry Instruments	5	1.36	0.17	12.3	1.4	5	4.68	0.63	13.5	4.8
Olympus										
Olympus AU	7	1.69	0.20	12.1	1.6	7	4.97	0.48	9.6	4.8
Pointe Scientific/Landmark										
All Chemistry Instruments	10	1.42	0.27	19.3	1.4	10	4.64	0.71	15.3	4.6
Roche COBAS										
Roche Cobas Fara/Mira/Bio	85	1.22	0.14	11.3	1.2	83	4.29	0.31	7.2	4.3
Roche Integra	12	1.27	0.16	12.7	1.3	12	4.48	0.33	7.4	4.5
All Chemistry Instruments	97	1.22	0.14	11.5	1.2	95	4.31	0.32	7.4	4.3
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	65	1.44	0.18	12.5	1.5	65	4.76	0.39	8.2	4.8
ThermoDMA										
Roche Cobas Fara/Mira/Bio	8	1.64	0.11	6.5	1.7	8	4.24	0.81	19.2	4.4
All Chemistry Instruments	14	1.54	0.20	12.9	1.6	14	4.39	0.72	16.5	4.5
VITROS - TBIL										
VITROS 250,400,500,700,750,9	55	1.13	0.11	9.4	1.1	55	4.04	0.26	6.4	4.1
VITROS DT/DTII/DT60	26	1.54	0.18	11.9	1.5	25	4.25	0.16	3.7	4.3
All Chemistry Instruments	81	1.26	0.24	18.9	1.2	80	4.11	0.25	6.1	4.1
VITROS										
All Chemistry Instruments	6	1.25	0.16	13.2	1.2	6	4.25	0.14	3.2	4.3

Specimen CH-15

All Methods	534	1.94	0.25	13.0	1.9
Abaxis Piccolo					
Abaxis Piccolo	6	1.52	0.13	8.8	1.6
Abbott Aeroset					
Abbott Aeroset	10	1.66	0.10	5.8	1.7
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	7	1.81	0.11	5.9	1.8
Beckman					
Beckman Synchron	48	2.12	0.17	8.0	2.1

Bilirubin, Total (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>
Carolina Liquid Chemistries					
Beckman Synchron	5	1.86	0.09	4.8	1.9
Dade / Dupont					
Dade Analyst	10	1.87	0.30	16.0	2.0
Dade Dimension/AR/ES/RxL/Xpa	65	1.79	0.19	10.4	1.8
All Chemistry Instruments	74	1.81	0.19	10.4	1.9
DCL					
Roche Cobas Fara/Mira/Bio	13	1.98	0.30	15.0	2.0
All Chemistry Instruments	18	1.96	0.28	14.3	2.0
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	9	2.10	0.10	4.8	2.1
ATAC 8000	57	1.93	0.22	11.4	2.0
All Chemistry Instruments	66	1.95	0.22	11.0	2.0
JAS Diagnostics, Inc.					
All Chemistry Instruments	5	2.00	0.20	10.0	2.1
Olympus					
Olympus AU	7	2.44	0.24	9.7	2.4
Pointe Scientific/Landmark					
All Chemistry Instruments	10	2.07	0.35	17.1	2.1
Roche COBAS					
Roche Cobas Fara/Mira/Bio	84	1.87	0.18	9.4	1.9
Roche Integra	12	1.94	0.19	9.7	2.0
All Chemistry Instruments	96	1.88	0.18	9.5	1.9
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	65	2.11	0.22	10.7	2.1
ThermoDMA					
Roche Cobas Fara/Mira/Bio	8	2.49	0.98	39.5	2.2
All Chemistry Instruments	13	2.11	0.22	10.5	2.1
VITROS - TBIL					
VITROS 250,400,500,700,750,9	54	1.74	0.15	8.8	1.8
VITROS DT/DTII/DT60	26	2.23	0.16	7.3	2.3
All Chemistry Instruments	81	1.89	0.29	15.2	1.9
VITROS					
All Chemistry Instruments	5	1.88	0.19	10.2	1.8

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	308	6.31	0.39	6.2	6.4	309	8.31	0.30	3.6	8.3
All CPC Methods	168	6.39	0.25	3.9	6.4	167	8.41	0.28	3.3	8.4
All Methods	522	6.34	0.34	5.4	6.4	523	8.34	0.29	3.5	8.3
Abaxis Piccolo										
Abaxis Piccolo	6	6.53	0.23	3.6	6.6	6	8.83	0.50	5.7	8.8
Abbott Aeroset										
Abbott Aeroset	10	6.67	0.09	1.4	6.7	10	8.54	0.14	1.6	8.6
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	7	6.17	0.13	2.0	6.1	7	8.20	0.21	2.5	8.3
Beckman										
Beckman Synchron	32	6.56	0.22	3.3	6.6	32	8.46	0.21	2.5	8.4
Dade / Dupont										
Dade Analyst	10	6.13	0.23	3.8	6.1	10	8.58	0.85	9.9	8.4
Dade Dimension/AR/ES/RxL/Xpa	65	6.39	0.22	3.4	6.4	65	8.30	0.23	2.7	8.3
All Chemistry Instruments	75	6.35	0.24	3.7	6.3	74	8.31	0.23	2.7	8.3
DCL - Arsenazo										
Roche Cobas Fara/Mira/Bio	11	6.63	0.31	4.6	6.5	12	8.23	0.40	4.9	8.3
All Chemistry Instruments	16	6.70	0.35	5.3	6.6	17	8.29	0.36	4.3	8.3

Calcium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-13 (cont'd)</u>					<u>Specimen CH-14 (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>
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	9	11.37	0.32	2.8	11.4	9	8.80	0.29	3.3	8.9
ATAC 8000	59	11.59	0.33	2.9	11.6	58	9.04	0.25	2.8	9.1
All Chemistry Instruments	68	11.56	0.34	2.9	11.6	68	9.00	0.29	3.2	9.0
ISE Undiluted										
Beckman Synchron	18	10.94	0.23	2.1	10.9	18	8.52	0.24	2.8	8.5
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	6	11.03	0.18	1.6	11.1	6	8.57	0.44	5.1	8.5
All Chemistry Instruments	7	11.10	0.24	2.1	11.1	7	8.59	0.40	4.7	8.6
Olympus										
Olympus AU	7	10.96	0.23	2.1	11.0	7	8.37	0.17	2.0	8.4
Roche COBAS										
Roche Cobas Fara/Mira/Bio	79	10.99	0.34	3.1	11.0	76	8.70	0.29	3.4	8.7
Roche Integra	12	11.43	0.32	2.8	11.4	12	8.86	0.18	2.1	8.9
All Chemistry Instruments	92	11.06	0.38	3.5	11.0	88	8.72	0.29	3.3	8.7
Schiapparelli-Ca (arsenazo)										
Schiap./Alpha Wass. ACE/NexC	52	10.98	0.31	2.8	10.9	52	8.58	0.23	2.7	8.6
ThermoDMA - Arsenazo										
Roche Cobas Fara/Mira/Bio	14	10.86	0.37	3.4	10.9	13	8.44	0.28	3.3	8.4
All Chemistry Instruments										
ThermoTrace - Arsenazo	9	10.89	0.79	7.3	11.0	7	8.33	0.59	7.1	8.1
Roche Cobas Fara/Mira/Bio	12	10.99	0.71	6.4	11.2	10	8.41	0.51	6.0	8.5
VITROS										
VITROS 250,400,500,700,750,9	58	11.00	0.21	1.9	11.0	59	8.21	0.20	2.5	8.2
VITROS DT/DTII/DT60	5	11.08	0.38	3.4	11.1	5	8.58	0.89	10.3	8.4
All Chemistry Instruments	64	11.02	0.24	2.2	11.0	63	8.21	0.21	2.5	8.2

Specimen CH-15

All Arsenazo Methods	306	12.13	0.40	3.3	12.1
All CPC Methods	167	12.49	0.46	3.7	12.5
All Methods	517	12.23	0.44	3.6	12.2
Abaxis Piccolo					
Abaxis Piccolo	6	12.60	0.30	2.4	12.6
Abbott Aeroset					
Abbott Aeroset	10	12.53	0.25	2.0	12.6
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	7	12.06	0.20	1.7	11.9
Beckman					
Beckman Synchron	31	12.20	0.30	2.5	12.1
Dade / Dupont					
Dade Analyst	10	12.82	0.29	2.3	12.9
Dade Dimension/AR/ES/RxL/Xpa	65	12.30	0.35	2.8	12.3
All Chemistry Instruments	75	12.37	0.38	3.1	12.3
DCL - Arsenazo					
Roche Cobas Fara/Mira/Bio	12	11.75	0.43	3.7	11.7
All Chemistry Instruments	17	11.85	0.48	4.1	11.9
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	9	12.57	0.43	3.4	12.7
ATAC 8000	59	12.75	0.44	3.4	12.7
All Chemistry Instruments	68	12.72	0.44	3.4	12.7
ISE Undiluted					
Beckman Synchron	18	11.94	0.24	2.0	12.0
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	6	12.20	0.17	1.4	12.3
All Chemistry Instruments	7	12.31	0.34	2.8	12.3

Calcium (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>
Olympus					
Olympus AU	7	12.09	0.25	2.1	12.1
Roche COBAS					
Roche Cobas Fara/Mira/Bio	78	12.07	0.34	2.8	12.1
Roche Integra	12	12.72	0.34	2.6	12.8
All Chemistry Instruments	91	12.17	0.42	3.4	12.2
Schiapparelli-Ca (arsenazo)					
Schiap./Alpha Wass. ACE/NexC	50	11.95	0.30	2.5	12.0
ThermoDMA - Arsenazo					
Roche Cobas Fara/Mira/Bio	14	11.86	0.34	2.9	11.9
All Chemistry Instruments					
ThermoTrace - Arsenazo	9	11.41	1.92	16.8	12.0
Roche Cobas Fara/Mira/Bio	12	11.72	1.73	14.8	12.5
VITROS					
VITROS 250,400,500,700,750,9	60	12.02	0.23	1.9	12.0
VITROS DT/DTII/DT60	5	12.04	0.45	3.7	12.1
All Chemistry Instruments	65	12.02	0.25	2.1	12.0

Creatinine (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 Methods	571	2.25	0.27	12.2	2.2	572	2.64	0.27	10.1	2.6
Abaxis Piccolo										
Abaxis Piccolo	6	2.48	0.17	6.9	2.5	6	2.82	0.16	5.7	2.8
Abbott Aerosep										
Abbott Aerosep	10	2.24	0.11	4.8	2.2	10	2.60	0.12	4.4	2.6
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	11	2.12	0.17	8.1	2.1	11	2.52	0.24	9.5	2.5
Beckman										
Beckman Synchron	54	2.31	0.08	3.4	2.3	53	2.72	0.10	3.6	2.7
All Chemistry Instruments	55	2.31	0.08	3.4	2.3	54	2.72	0.10	3.6	2.7
BMC										
BMC Reflotron/Plus	5	2.54	0.17	6.6	2.5	5	2.82	0.19	6.8	2.8
Carolina Liquid Chemistries										
Beckman Synchron	5	2.30	0.10	4.4	2.3	5	2.70	0.07	2.6	2.7
CREA (blnk corrected -NH3)										
VITROS 250,400,500,700,750,9	11	2.71	0.07	2.6	2.7	11	3.07	0.08	2.6	3.1
CRSC (single slide)										
VITROS 250,400,500,700,750,9	50	2.73	0.07	2.7	2.7	50	3.08	0.07	2.3	3.1
VITROS DT/DTII/DT60	17	2.92	0.11	3.7	2.9	17	3.22	0.10	3.2	3.2
All Chemistry Instruments	67	2.78	0.12	4.2	2.8	67	3.12	0.10	3.2	3.1
Dade / Dupont										
Dade Analyst	10	2.38	0.09	3.9	2.4	10	2.78	0.11	4.1	2.7
Dade Dimension/AR/ES/RxL/Xpa	63	2.29	0.08	3.4	2.3	65	2.65	0.09	3.3	2.7
All Chemistry Instruments	73	2.30	0.09	3.7	2.3	74	2.66	0.09	3.5	2.7
DCL										
Roche Cobas Fara/Mira/Bio	16	2.20	0.17	7.8	2.2	16	2.54	0.17	6.7	2.6
All Chemistry Instruments	22	2.20	0.15	6.9	2.2	22	2.54	0.16	6.2	2.5

Creatinine (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>
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	9	1.83	0.09	4.7	1.8	9	4.98	0.15	3.0	5.0
ATAC 8000	60	1.72	0.16	9.6	1.8	59	5.12	0.38	7.5	5.1
All Chemistry Instruments	69	1.73	0.16	9.3	1.8	67	5.08	0.34	6.6	5.1
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	8	1.74	0.07	4.3	1.8	8	4.95	0.18	3.6	5.0
All Chemistry Instruments	9	1.76	0.09	5.0	1.8	9	4.96	0.17	3.4	5.0
Olympus										
Olympus AU	7	1.90	0.00	0.0	1.9	7	5.56	0.08	1.4	5.6
Pointe Scientific/Landmark										
Roche Cobas Fara/Mira/Bio	5	1.78	0.11	6.2	1.8	5	5.36	0.61	11.4	5.2
All Chemistry Instruments	13	1.85	0.13	7.2	1.8	13	5.33	0.43	8.2	5.2
Roche COBAS										
Roche Cobas Fara/Mira/Bio	80	1.82	0.12	6.5	1.8	79	5.22	0.20	3.9	5.2
Roche Integra	12	1.80	0.10	5.3	1.8	12	5.20	0.26	5.0	5.3
All Chemistry Instruments	92	1.82	0.12	6.4	1.8	91	5.22	0.21	4.0	5.2
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	62	1.74	0.12	6.8	1.7	60	4.88	0.26	5.3	4.9
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	5	1.80	0.16	8.8	1.8	5	5.16	0.35	6.8	5.2
All Chemistry Instruments	7	1.83	0.15	8.2	1.8	7	5.06	0.34	6.6	5.1
ThermoDMA										
Roche Cobas Fara/Mira/Bio	9	1.78	0.15	8.3	1.7	9	4.84	0.76	15.7	5.1
All Chemistry Instruments	14	1.77	0.13	7.2	1.7	14	4.94	0.61	12.4	5.1
ThermoTrace										
Roche Cobas Fara/Mira/Bio	7	1.76	0.10	5.6	1.8	7	4.86	0.74	15.2	5.1
All Chemistry Instruments	8	1.78	0.10	5.8	1.8	8	4.91	0.70	14.3	5.1

Specimen CH-15

All Methods	562	3.46	0.25	7.1	3.5
Abaxis Piccolo					
Abaxis Piccolo	6	3.60	0.26	7.2	3.6
Abbott Aeroset					
Abbott Aeroset	10	3.37	0.19	5.8	3.3
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	11	3.39	0.28	8.3	3.3
Beckman					
Beckman Synchron	53	3.56	0.10	2.9	3.6
All Chemistry Instruments	54	3.56	0.10	2.9	3.6
BMC					
BMC Reflotron/Plus	5	3.66	0.11	3.1	3.7
Carolina Liquid Chemistries					
Beckman Synchron	5	3.52	0.04	1.3	3.5
CREA (blnk corrected -NH3)					
VITROS 250,400,500,700,750,9	11	3.76	0.08	2.2	3.8
CRSC (single slide)					
VITROS 250,400,500,700,750,9	50	3.76	0.09	2.4	3.8
VITROS DT/DTII/DT60	17	3.89	0.09	2.2	3.9
All Chemistry Instruments	67	3.79	0.10	2.8	3.8
Dade / Dupont					
Dade Analyst	10	3.59	0.16	4.4	3.7
Dade Dimension/AR/ES/RxL/Xpa	64	3.48	0.10	2.8	3.5
All Chemistry Instruments	75	3.50	0.12	3.4	3.5
DCL					
Roche Cobas Fara/Mira/Bio	16	3.35	0.31	9.1	3.4
All Chemistry Instruments	22	3.38	0.30	9.0	3.4

Creatinine (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>
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	9	3.38	0.08	2.5	3.4
ATAC 8000	60	3.26	0.26	7.9	3.3
All Chemistry Instruments	69	3.28	0.24	7.5	3.3
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	8	3.18	0.10	3.3	3.2
All Chemistry Instruments	9	3.21	0.15	4.5	3.2
Olympus					
Olympus AU	7	3.57	0.05	1.4	3.6
Pointe Scientific/Landmark					
Roche Cobas Fara/Mira/Bio	5	3.54	0.27	7.6	3.5
All Chemistry Instruments	13	3.54	0.21	5.8	3.5
Roche COBAS					
Roche Cobas Fara/Mira/Bio	78	3.43	0.14	4.2	3.4
Roche Integra	12	3.38	0.15	4.5	3.4
All Chemistry Instruments	90	3.42	0.15	4.3	3.4
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	61	3.22	0.18	5.5	3.2
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	5	3.48	0.37	10.6	3.5
ThermoDMA	7	3.41	0.33	9.8	3.4
All Chemistry Instruments					
Roche Cobas Fara/Mira/Bio	9	3.50	0.53	15.2	3.4
All Chemistry Instruments	14	3.40	0.45	13.2	3.3
ThermoTrace					
Roche Cobas Fara/Mira/Bio	7	3.51	0.53	15.2	3.3
All Chemistry Instruments	8	3.49	0.50	14.3	3.3

Glucose (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 Methods	624	53.5	4.2	7.9	54	628	106.1	6.1	5.7	107
Abaxis Piccolo										
Abaxis Piccolo	6	57.2	1.5	2.6	57	6	108.7	1.9	1.7	109
Abbott Aeroset										
Abbott Aeroset	10	53.5	1.4	2.5	54	10	108.3	1.9	1.8	109
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	10	54.9	2.2	4.1	55	10	106.7	4.3	4.1	106
Beckman										
Beckman Synchron	53	52.7	2.4	4.5	54	53	106.8	2.3	2.2	107
BMC										
BMC Reflotron/Plus	16	50.3	4.2	8.3	50	16	96.8	5.2	5.4	96
Carolina Liquid Chemistries										
Beckman Synchron	5	54.4	3.6	6.6	55	5	109.0	5.6	5.1	110
Cholestech LDX										
Cholestech LDX	-	-	-	-	-	7	104.0	5.8	5.6	104
Dade / Dupont										
Dade Analyst	11	55.7	2.0	3.6	55	11	113.7	8.6	7.5	111
Dade Dimension/AR/ES/RxL/Xpa	66	56.1	1.8	3.2	56	66	108.1	2.7	2.5	108
All Chemistry Instruments	77	56.1	1.8	3.2	56	76	108.5	2.9	2.7	108
DCL										
Roche Cobas Fara/Mira/Bio	12	51.1	2.9	5.6	52	12	103.1	3.2	3.1	104
Technicon RA,XT,OPERA	-	-	-	-	-	5	110.2	3.9	3.5	112
All Chemistry Instruments	18	52.2	3.0	5.8	53	19	105.5	4.6	4.3	104
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	10	57.8	2.8	4.8	57	10	112.2	3.7	3.3	112
ATAC 8000	60	56.5	2.6	4.7	57	59	108.5	4.3	3.9	109

Glucose (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>
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	203.0	3.1	1.5	203	5	91.4	3.2	3.5	91
All Chemistry Instruments	7	201.6	11.0	5.4	203	7	89.6	6.6	7.4	91
Olympus										
Olympus AU	7	198.9	3.8	1.9	198	7	84.4	1.7	2.0	84
Pointe Scientific/Landmark										
All Chemistry Instruments	11	202.9	12.1	6.0	202	11	88.4	6.8	7.7	86
Roche COBAS										
Roche Cobas Fara/Mira/Bio	89	185.3	11.1	6.0	185	89	76.3	4.9	6.5	76
Roche Integra	12	198.7	4.8	2.4	197	12	81.7	2.1	2.6	81
All Chemistry Instruments	101	186.9	11.4	6.1	187	101	77.0	5.0	6.5	77
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	66	200.7	5.0	2.5	200	65	85.0	2.2	2.6	85
Thermo Infinity										
Roche Cobas Fara/Mira/Bio	5	198.8	8.7	4.4	199	5	82.0	2.9	3.6	82
All Chemistry Instruments	7	198.7	7.8	3.9	199	7	82.7	2.8	3.4	83
ThermoDMA										
Roche Cobas Fara/Mira/Bio	10	201.4	7.6	3.8	203	10	85.2	5.4	6.3	85
All Chemistry Instruments	15	202.1	6.6	3.3	202	16	85.3	4.6	5.3	86
VITROS										
VITROS 250,400,500,700,750,9	61	194.6	3.6	1.9	195	61	81.1	2.8	3.4	82
VITROS DT/DTII/DT60	61	204.2	7.2	3.5	204	59	84.1	3.9	4.6	84
All Chemistry Instruments	121	199.1	6.9	3.5	198	121	82.7	3.7	4.5	82

Specimen CH-15

All Methods	625	209.8	9.7	4.6	210
Abaxis Piccolo					
Abaxis Piccolo	6	210.0	3.4	1.6	210
Abbott Aeroset					
Abbott Aeroset	10	216.8	4.8	2.2	219
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	10	206.5	8.8	4.3	206
Beckman					
Beckman Synchron	52	212.8	4.4	2.1	213
BMC					
BMC Reflotron/Plus	16	208.4	12.6	6.0	206
Carolina Liquid Chemistries					
Beckman Synchron	5	214.8	13.4	6.2	220
Cholestech LDX					
Cholestech LDX	8	205.5	12.9	6.3	203
Dade / Dupont					
Dade Analyst	11	219.1	6.6	3.0	218
Dade Dimension/AR/ES/RxL/Xpa	65	210.2	4.1	2.0	211
All Chemistry Instruments	74	211.0	4.5	2.1	212
DCL					
Roche Cobas Fara/Mira/Bio	12	210.4	12.8	6.1	211
Technicon RA,XT,OPERA	5	217.8	7.4	3.4	215
All Chemistry Instruments	18	214.5	7.8	3.6	214
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	10	214.3	16.6	7.8	215
ATAC 8000	58	212.5	6.8	3.2	213
All Chemistry Instruments	67	213.4	7.4	3.5	213
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	5	220.4	6.1	2.8	217
All Chemistry Instruments	7	218.4	14.9	6.8	217

Glucose (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>
Olympus					
Olympus AU	7	214.4	5.9	2.8	212
Pointe Scientific/Landmark					
All Chemistry Instruments	11	215.6	12.5	5.8	214
Roche COBAS					
Roche Cobas Fara/Mira/Bio	89	197.1	11.4	5.8	198
Roche Integra	12	212.6	5.1	2.4	211
All Chemistry Instruments	101	199.0	11.9	6.0	199
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	66	213.9	6.2	2.9	214
Thermo Infinity					
Roche Cobas Fara/Mira/Bio	5	216.0	9.7	4.5	210
All Chemistry Instruments	7	214.9	8.3	3.9	210
ThermoDMA					
Roche Cobas Fara/Mira/Bio	10	216.6	13.6	6.3	216
All Chemistry Instruments	16	213.8	14.3	6.7	213
VITROS					
VITROS 250,400,500,700,750,9	61	204.5	3.6	1.7	205
VITROS DT/DTII/DT60	60	211.3	7.0	3.3	212
All Chemistry Instruments	121	207.8	6.2	3.0	207

Iron (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 Methods	125	322.1	23.1	7.2	320	126	272.7	20.7	7.6	274
Abbott Aeroset										
Abbott Aeroset	5	317.4	6.6	2.1	316	5	269.0	7.5	2.8	267
Beckman										
Beckman Synchron	17	338.6	9.1	2.7	340	17	287.5	8.1	2.8	288
Dade / Dupont										
Dade Dimension/AR/ES/RxL/Xpa	27	319.7	4.0	1.3	320	26	270.8	5.7	2.1	270
DCL										
Roche Cobas Fara/Mira/Bio	5	262.6	34.2	13.0	273	5	230.8	12.3	5.3	230
All Chemistry Instruments	8	268.0	34.1	12.7	272	8	235.6	21.7	9.2	232
Elan Diagnostics (Bio-Chem)										
ATAC 8000	5	279.6	8.6	3.1	281	5	238.2	12.0	5.0	236
All Chemistry Instruments	7	287.0	14.5	5.0	282	7	245.1	15.4	6.3	245
Raichem										
Roche Cobas Fara/Mira/Bio	15	317.1	6.6	2.1	318	15	270.5	7.9	2.9	269
Roche COBAS										
Roche Integra	5	321.4	8.0	2.5	318	5	271.4	6.6	2.4	272
All Chemistry Instruments	7	320.6	6.7	2.1	318	7	256.9	38.7	15.1	271
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	8	315.8	5.5	1.8	314	8	271.1	5.1	1.9	272
VITROS										
VITROS 250,400,500,700,750,9	11	361.5	6.3	1.7	362	11	300.7	7.3	2.4	302

Magnesium (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 Methods	177	2.55	0.27	10.6	2.5
Abbott Aeroset					
Abbott Aeroset	5	2.82	0.11	3.9	2.8
Beckman					
Beckman Synchron	22	2.63	0.08	3.2	2.6
Dade / Dupont					
Dade Dimension/AR/ES/RxL/Xpa	30	2.46	0.07	2.8	2.5
DCL					
All Chemistry Instruments	6	2.40	0.14	5.9	2.4
Elan Diagnostics (Bio-Chem)					
ATAC 8000	20	2.42	0.29	11.9	2.4
All Chemistry Instruments	22	2.44	0.29	11.7	2.5
Olympus					
Olympus AU	5	2.46	0.19	7.9	2.4
Roche COBAS					
Roche Cobas Fara/Mira/Bio	22	2.20	0.29	13.2	2.3
Roche Integra	7	2.53	0.15	5.9	2.6
All Chemistry Instruments	29	2.28	0.30	13.0	2.4
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	15	2.63	0.34	13.0	2.6
ThermoDMA					
All Chemistry Instruments	5	2.66	0.18	6.8	2.6
VITROS					
VITROS 250,400,500,700,750,9	22	2.78	0.09	3.3	2.8
All Chemistry Instruments	24	2.78	0.09	3.1	2.8

Phosphorus (mg/dL)

Specimen CH-11

Specimen CH-12

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	201	3.99	0.30	7.5	4.0	198	3.53	0.26	7.4	3.5
Abbott Aeroset										
Abbott Aeroset	6	4.00	0.06	1.6	4.0	6	3.52	0.08	2.1	3.5
Beckman										
Beckman Synchron	34	4.27	0.21	4.9	4.2	33	3.79	0.16	4.3	3.8
Dade / Dupont										
Dade Dimension/AR/ES/RxL/Xpa	35	3.90	0.12	3.2	3.9	34	3.44	0.10	2.9	3.4
DCL										
Roche Cobas Fara/Mira/Bio	5	4.08	0.40	9.7	4.2	5	3.74	0.47	12.6	3.7
All Chemistry Instruments	8	4.19	0.43	10.2	4.3	8	3.80	0.43	11.4	3.8
Elan Diagnostics (Bio-Chem)										
ATAC 8000	10	4.14	0.17	4.1	4.1	10	3.64	0.12	3.2	3.6
All Chemistry Instruments	12	4.13	0.16	3.8	4.1	12	3.64	0.11	3.0	3.6
Olympus										
Olympus AU	6	3.70	0.06	1.7	3.7	6	3.32	0.08	2.3	3.3
Pointe Scientific/Landmark										
All Chemistry Instruments	6	4.37	0.29	6.7	4.4	6	3.73	0.23	6.0	3.8
Roche COBAS										
Roche Cobas Fara/Mira/Bio	22	3.73	0.23	6.1	3.7	21	3.25	0.19	5.9	3.3
Roche Integra	7	3.96	0.11	2.9	4.0	7	3.54	0.14	3.9	3.5
All Chemistry Instruments	29	3.78	0.23	6.0	3.7	28	3.33	0.22	6.6	3.3
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	23	3.71	0.14	3.7	3.7	23	3.33	0.12	3.6	3.3
VITROS										
VITROS 250,400,500,700,750,9	20	3.97	0.10	2.6	4.0	20	3.50	0.09	2.5	3.5
All Chemistry Instruments	21	3.96	0.12	2.9	3.9	21	3.49	0.10	2.8	3.5

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-13 (cont'd)</u>					<u>Specimen CH-14 (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>
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	7	5.66	0.28	4.9	5.7	7	4.06	0.10	2.4	4.1
Beckman										
Beckman Synchron	51	5.97	0.19	3.2	6.0	51	4.19	0.15	3.5	4.2
Carolina Liquid Chemistries										
Beckman Synchron	5	6.00	0.19	3.1	5.9	5	4.18	0.16	3.9	4.1
Dade / Dupont										
Dade Analyst	10	6.97	0.18	2.6	7.0	10	4.98	0.12	2.5	5.0
Dade Dimension/AR/ES/RxL/Xpa	60	6.14	0.11	1.8	6.1	62	4.29	0.09	2.1	4.3
All Chemistry Instruments	74	6.27	0.33	5.3	6.2	75	4.39	0.28	6.3	4.3
DCL										
Roche Cobas Fara/Mira/Bio	12	5.90	0.20	3.4	5.9	12	4.28	0.14	3.2	4.3
All Chemistry Instruments	17	5.94	0.21	3.5	5.9	17	4.31	0.13	3.1	4.3
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	10	6.14	0.16	2.7	6.1	10	4.47	0.18	4.1	4.5
ATAC 8000	54	6.17	0.21	3.4	6.2	56	4.37	0.13	2.9	4.4
All Chemistry Instruments	64	6.17	0.20	3.3	6.2	66	4.38	0.14	3.2	4.4
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	6.00	0.14	2.4	6.1	5	4.34	0.11	2.6	4.3
All Chemistry Instruments	7	6.07	0.17	2.8	6.1	7	4.40	0.14	3.2	4.4
Olympus										
Olympus AU	7	6.00	0.24	4.1	6.1	7	4.19	0.20	4.7	4.2
Pointe Scientific/Landmark										
All Chemistry Instruments	8	6.08	0.34	5.6	6.1	8	4.46	0.26	5.7	4.4
Roche COBAS										
Roche Cobas Fara/Mira/Bio	83	6.09	0.22	3.6	6.1	83	4.41	0.18	4.0	4.4
Roche Integra	12	6.21	0.17	2.7	6.2	12	4.48	0.14	3.0	4.5
All Chemistry Instruments	95	6.11	0.22	3.6	6.1	95	4.42	0.17	3.9	4.4
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	64	6.14	0.17	2.8	6.1	64	4.36	0.13	3.1	4.3
All Chemistry Instruments	65	6.14	0.17	2.7	6.1	65	4.36	0.13	3.1	4.3
ThermoDMA										
Roche Cobas Fara/Mira/Bio	12	6.18	0.22	3.6	6.2	13	4.48	0.17	3.9	4.4
All Chemistry Instruments	16	6.24	0.22	3.6	6.3	17	4.49	0.16	3.5	4.5
VITROS										
VITROS 250,400,500,700,750,9	57	6.14	0.18	3.0	6.1	57	4.51	0.15	3.4	4.5
All Chemistry Instruments	59	6.13	0.19	3.2	6.1	59	4.50	0.16	3.6	4.5
Specimen CH-15										
All Methods	502	4.81	0.20	4.1	4.8					
Abaxis Piccolo										
Abaxis Piccolo	6	4.88	0.04	0.8	4.9					
Abbott Aeroset										
Abbott Aeroset	10	4.83	0.11	2.2	4.8					
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	7	4.44	0.08	1.8	4.4					

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>
Beckman					
Beckman Synchron	50	4.63	0.15	3.2	4.6
Carolina Liquid Chemistries					
Beckman Synchron	5	4.60	0.16	3.4	4.6
Dade / Dupont					
Dade Analyst	10	5.53	0.24	4.4	5.4
Dade Dimension/AR/ES/RxL/Xpa	63	4.79	0.10	2.2	4.8
All Chemistry Instruments	72	4.85	0.24	4.9	4.8
DCL					
Roche Cobas Fara/Mira/Bio	12	4.64	0.14	3.1	4.6
All Chemistry Instruments	17	4.70	0.17	3.7	4.7
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	10	4.93	0.21	4.2	4.9
ATAC 8000	55	4.86	0.17	3.6	4.9
All Chemistry Instruments	65	4.87	0.18	3.7	4.9
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	5	4.68	0.08	1.8	4.7
All Chemistry Instruments	7	4.76	0.15	3.2	4.7
Olympus					
Olympus AU	7	4.73	0.25	5.3	4.8
Pointe Scientific/Landmark					
All Chemistry Instruments	8	4.88	0.24	4.9	4.9
Roche COBAS					
Roche Cobas Fara/Mira/Bio	83	4.83	0.20	4.1	4.8
Roche Integra	12	4.90	0.09	1.7	4.9
All Chemistry Instruments	95	4.84	0.19	3.9	4.8
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	64	4.79	0.15	3.1	4.8
All Chemistry Instruments	65	4.79	0.15	3.1	4.8
ThermoDMA					
Roche Cobas Fara/Mira/Bio	12	4.78	0.20	4.3	4.8
All Chemistry Instruments	16	4.86	0.22	4.6	5.0
VITROS					
VITROS 250,400,500,700,750,9	57	4.90	0.16	3.3	4.9
All Chemistry Instruments	59	4.89	0.17	3.6	4.9

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 Methods	66	333.8	64.2	19.2	328	72	295.0	60.9	20.7	285
Beckman										
Beckman Synchron	6	368.2	19.3	5.2	369	7	305.4	63.3	20.7	325
Dade / Dupont										
Dade Dimension/AR/ES/RxL/Xpa	18	267.4	19.9	7.4	270	18	239.9	15.0	6.3	242
DCL										
All Chemistry Instruments	6	325.2	32.5	10.0	339	6	293.2	29.3	10.0	290
Raichem										
Roche Cobas Fara/Mira/Bio	11	325.6	5.8	1.8	326	15	282.6	16.5	5.8	284
Roche COBAS										
All Chemistry Instruments	5	321.6	8.6	2.7	321	5	285.2	7.9	2.8	286
VITROS										
VITROS 250,400,500,700,750,9	7	475.6	20.0	4.2	479	7	438.6	10.9	2.5	443

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11					Specimen CH-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	557	16.6	1.1	6.7	17	551	22.7	1.3	5.7	23
Abaxis Piccolo										
Abaxis Piccolo	6	15.0	0.0	0.0	15	6	21.8	0.4	1.9	22
Abbott Aeroset										
Abbott Aeroset	10	17.5	0.7	4.0	17	10	23.7	0.7	2.8	24
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	8	17.0	0.9	5.4	17	8	23.3	0.7	3.0	23
Beckman										
Beckman Synchron	50	16.8	0.9	5.6	17	51	23.0	0.9	3.8	23
All Chemistry Instruments	51	16.8	1.0	5.8	17	52	23.0	0.9	3.9	23
Carolina Liquid Chemistries										
Beckman Synchron	5	18.2	3.0	16.7	19	5	25.0	3.0	12.0	26
Dade / Dupont										
Dade Analyst	10	16.9	0.6	3.4	17	10	24.0	1.9	7.9	23
Dade Dimension/AR/ES/RxL/Xpa	64	16.7	0.8	4.8	17	64	22.9	0.8	3.6	23
All Chemistry Instruments	74	16.8	0.8	4.6	17	73	23.0	0.8	3.6	23
DCL										
Roche Cobas Fara/Mira/Bio	13	16.2	1.4	8.4	16	13	21.5	1.6	7.3	22
Technicon RA,XT,OPERA	5	17.6	1.3	7.6	17	5	24.0	1.0	4.2	24
All Chemistry Instruments	20	16.8	1.4	8.6	17	20	22.4	1.8	8.1	22
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	10	17.2	0.6	3.7	17	10	23.8	0.6	2.7	24
ATAC 8000	61	17.0	0.7	4.4	17	60	23.3	1.0	4.2	23
All Chemistry Instruments	71	17.0	0.7	4.3	17	70	23.3	0.9	4.1	23
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	16.2	1.1	6.8	16	5	22.2	1.9	8.7	23
All Chemistry Instruments	7	16.6	1.1	6.8	16	7	22.7	1.8	7.9	23
Olympus										
Olympus AU	7	17.0	0.6	3.4	17	7	22.9	0.7	3.0	23
Pointe Scientific/Landmark										
All Chemistry Instruments	6	18.0	1.3	7.0	18	6	24.2	1.7	7.1	24
Roche COBAS										
Roche Cobas Fara/Mira/Bio	89	16.0	1.3	8.3	16	89	22.0	1.5	7.0	22
Roche Integra	12	16.7	0.8	4.7	17	12	22.4	1.4	6.2	23
All Chemistry Instruments	101	16.0	1.3	8.0	16	101	22.0	1.5	6.9	22
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	64	16.8	0.8	4.5	17	63	23.1	0.8	3.5	23
Thermo Infinity										
All Chemistry Instruments	5	16.6	1.8	10.9	17	5	23.0	2.1	9.2	23
ThermoDMA										
Roche Cobas Fara/Mira/Bio	9	16.9	1.1	6.2	17	9	23.0	1.4	6.1	22
All Chemistry Instruments	16	17.4	1.8	10.0	17	17	23.4	1.6	6.9	24
VITROS										
VITROS 250,400,500,700,750,9	60	16.6	0.6	3.4	17	60	21.8	0.6	2.8	22
VITROS DT/DTII/DT60	25	15.9	1.1	6.6	16	24	21.3	1.6	7.4	21
All Chemistry Instruments	83	16.4	0.7	4.0	16	83	21.7	0.9	4.0	22

<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 Methods	555	36.9	2.3	6.2	37	555	12.9	1.0	7.6	13
Abaxis Piccolo										
Abaxis Piccolo	6	35.7	0.5	1.4	36	6	12.2	0.4	3.4	12
Abbott Aeroset										
Abbott Aeroset	10	38.3	1.2	3.0	38	10	13.3	0.7	5.1	13

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>
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	8	38.1	1.4	3.6	38	8	13.4	0.7	5.6	14
Beckman										
Beckman Synchron	53	37.8	1.1	2.9	38	52	13.0	1.1	8.1	13
All Chemistry Instruments	54	37.8	1.1	2.9	38	53	13.0	1.1	8.1	13
Carolina Liquid Chemistries										
Beckman Synchron	5	39.2	2.2	5.5	39	5	14.4	2.6	18.1	15
Dade / Dupont										
Dade Analyst	10	39.2	1.0	2.6	39	10	12.9	0.6	4.4	13
Dade Dimension/AR/ES/RxL/Xpa	64	37.8	1.3	3.4	38	64	12.9	0.6	4.7	13
All Chemistry Instruments	74	38.0	1.3	3.5	38	74	12.9	0.6	4.7	13
DCL										
Roche Cobas Fara/Mira/Bio	13	35.9	2.3	6.3	36	13	12.2	1.1	8.8	12
Technicon RA,XT,OPERA	5	39.4	0.9	2.3	39	5	14.2	1.3	9.2	14
All Chemistry Instruments	20	37.1	2.4	6.6	37	20	12.9	1.6	12.0	13
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	10	38.1	1.5	4.0	38	10	13.8	0.4	3.1	14
ATAC 8000	58	37.7	1.5	3.9	38	60	13.2	0.6	4.7	13
All Chemistry Instruments	68	37.7	1.5	3.9	38	70	13.3	0.6	4.8	13
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	36.4	1.1	3.1	36	5	13.4	0.9	6.7	14
All Chemistry Instruments	7	36.6	1.1	3.1	36	7	13.0	1.5	11.8	14
Olympus										
Olympus AU	7	37.0	0.8	2.2	37	7	13.1	0.7	5.3	13
Pointe Scientific/Landmark										
All Chemistry Instruments	6	37.5	2.1	5.5	39	6	13.2	0.4	3.1	13
Roche COBAS										
Roche Cobas Fara/Mira/Bio	89	35.6	2.7	7.7	36	90	12.4	1.2	9.6	12
Roche Integra	12	37.4	1.2	3.3	37	12	12.7	0.8	6.1	13
All Chemistry Instruments	100	35.9	2.5	7.1	36	102	12.5	1.1	9.2	12
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	63	37.7	1.3	3.4	38	64	13.2	0.7	5.2	13
Thermo Infinity										
All Chemistry Instruments	5	37.8	1.9	5.1	37	5	12.2	2.5	20.4	13
ThermoDMA										
Roche Cobas Fara/Mira/Bio	9	36.3	2.5	7.0	37	9	13.1	0.9	7.1	13
All Chemistry Instruments	17	37.7	3.4	8.9	37	17	13.6	1.2	8.6	14
VITROS										
VITROS 250,400,500,700,750,9	61	33.8	0.8	2.3	34	61	12.6	0.5	4.2	13
VITROS DT/DTII/DT60	24	34.1	2.0	6.0	35	25	11.6	0.8	7.0	12
All Chemistry Instruments	84	33.9	1.1	3.2	34	86	12.3	0.8	6.2	12

Specimen CH-15

All Methods	553	34.6	2.3	6.7	35
Abaxis Piccolo					
Abaxis Piccolo	6	33.2	0.4	1.2	33
Abbott Aeroset					
Abbott Aeroset	10	35.7	0.7	1.9	36
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	8	35.8	1.6	4.4	36
Beckman					
Beckman Synchron	52	35.9	1.1	3.1	36
All Chemistry Instruments	53	35.8	1.1	3.1	36

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>
Carolina Liquid Chemistries					
Beckman Synchron	5	37.0	1.2	3.3	37
Dade / Dupont					
Dade Analyst	10	36.3	0.7	1.9	36
Dade Dimension/AR/ES/RxL/Xpa	64	35.5	1.0	2.8	35
All Chemistry Instruments	74	35.6	1.0	2.8	36
DCL					
Roche Cobas Fara/Mira/Bio	13	33.5	2.4	7.1	33
Technicon RA,XT,OPERA	5	37.6	1.5	4.0	37
All Chemistry Instruments	20	34.8	2.8	8.1	35
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	10	36.4	1.1	3.0	36
ATAC 8000	59	35.4	1.3	3.7	35
All Chemistry Instruments	69	35.5	1.3	3.7	36
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	5	33.4	2.1	6.2	33
All Chemistry Instruments	7	34.4	2.5	7.3	35
Olympus					
Olympus AU	7	35.4	1.0	2.8	35
Pointe Scientific/Landmark					
All Chemistry Instruments	6	37.5	2.6	6.9	37
Roche COBAS					
Roche Cobas Fara/Mira/Bio	89	33.4	2.7	8.2	33
Roche Integra	12	34.6	1.6	4.7	35
All Chemistry Instruments	101	33.6	2.6	7.9	33
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	62	35.7	1.1	3.1	36
Thermo Infinity					
All Chemistry Instruments	5	37.0	3.5	9.4	36
ThermoDMA					
Roche Cobas Fara/Mira/Bio	9	34.7	1.5	4.3	35
All Chemistry Instruments	17	35.5	2.7	7.5	35
VITROS					
VITROS 250,400,500,700,750,9	60	31.2	0.8	2.7	31
VITROS DT/DTII/DT60	24	31.4	1.7	5.4	31
All Chemistry Instruments	84	31.2	1.1	3.5	31

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 Methods	404	2.91	0.52	18.0	2.8	401	5.42	0.43	8.0	5.4
Abbott Aeroset										
Abbott Aeroset	8	3.09	0.11	3.7	3.1	8	5.85	0.09	1.6	5.9
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	6	3.03	0.22	7.1	3.1	6	5.73	0.10	1.8	5.8
Beckman										
Beckman Synchron	41	2.77	0.07	2.5	2.8	42	5.22	0.09	1.7	5.2
BMC										
BMC Reflotron/Plus	5	3.10	0.26	8.2	3.1	5	5.86	0.27	4.6	5.8
Dade / Dupont										
Dade Analyst	10	3.41	0.15	4.5	3.4	10	6.05	0.10	1.6	6.0
Dade Dimension/AR/ES/RxL/Xpa	43	3.09	0.12	3.7	3.1	43	5.57	0.16	2.9	5.6
All Chemistry Instruments	52	3.14	0.16	5.1	3.1	53	5.66	0.24	4.2	5.6
DCL										
Roche Cobas Fara/Mira/Bio	12	2.92	0.28	9.6	2.9	12	5.49	0.32	5.8	5.6
All Chemistry Instruments	16	3.08	0.39	12.7	3.0	16	5.53	0.31	5.7	5.6
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	6	2.83	0.29	10.2	2.8	6	5.35	0.28	5.3	5.4
ATAC 8000	35	2.35	0.11	4.6	2.4	37	4.93	0.21	4.2	4.9
All Chemistry Instruments	41	2.41	0.19	8.0	2.4	43	4.99	0.26	5.2	4.9
Olympus										
Olympus AU	6	2.72	0.29	10.8	2.9	6	5.45	0.38	6.9	5.6
Pointe Scientific/Landmark										
All Chemistry Instruments	9	3.67	0.26	7.2	3.7	9	6.06	0.27	4.5	6.1
Roche COBAS										
Roche Cobas Fara/Mira/Bio	55	2.22	0.21	9.5	2.2	55	4.78	0.34	7.2	4.8
Roche Integra	9	2.68	0.19	7.2	2.8	9	5.43	0.28	5.2	5.5
All Chemistry Instruments	65	2.27	0.28	12.2	2.2	64	4.87	0.40	8.3	4.9
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	43	3.84	0.24	6.3	3.9	43	5.77	0.25	4.3	5.8
ThermoDMA										
Roche Cobas Fara/Mira/Bio	5	3.24	0.32	9.9	3.2	5	5.72	0.48	8.3	5.6
All Chemistry Instruments	9	4.08	2.38	58.4	3.3	9	5.84	0.38	6.5	5.8
ThermoTrace										
Roche Cobas Fara/Mira/Bio	6	3.10	0.28	9.1	3.1	6	5.70	0.49	8.7	5.7
All Chemistry Instruments	7	3.04	0.30	9.8	3.0	7	5.73	0.46	8.0	5.8
VITROS										
VITROS 250,400,500,700,750,9	40	2.74	0.08	3.0	2.7	40	5.43	0.14	2.6	5.4
VITROS DT/DTII/DT60	29	2.88	0.11	3.9	2.9	30	5.52	0.24	4.4	5.5
All Chemistry Instruments	68	2.79	0.11	3.8	2.8	68	5.45	0.17	3.1	5.4

Uric Acid (mg/dL)

	Specimen CH-13					Specimen CH-14				
All Methods	401	9.71	0.51	5.2	9.6	403	4.94	0.45	9.2	5.0
Abbott Aeroset										
Abbott Aeroset	8	10.46	0.07	0.7	10.5	8	5.28	0.10	2.0	5.3
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	6	10.58	0.23	2.2	10.6	6	5.33	0.30	5.7	5.2
Beckman										
Beckman Synchron	42	9.32	0.13	1.4	9.3	41	4.79	0.06	1.4	4.8
BMC										
BMC Reflotron/Plus	5	9.94	0.26	2.6	9.9	5	5.44	0.30	5.5	5.4
Dade / Dupont										
Dade Analyst	10	10.60	0.14	1.3	10.6	10	5.49	0.10	1.8	5.5
Dade Dimension/AR/ES/RxL/Xpa	43	9.69	0.23	2.4	9.7	43	5.18	0.11	2.1	5.2
All Chemistry Instruments	53	9.86	0.42	4.3	9.8	53	5.24	0.16	3.1	5.2
DCL										
Roche Cobas Fara/Mira/Bio	12	10.46	0.64	6.1	10.5	12	5.10	0.31	6.1	5.1
All Chemistry Instruments	16	10.21	0.72	7.0	10.1	16	5.17	0.37	7.1	5.2
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	6	9.80	0.41	4.1	9.8	6	4.67	0.21	4.4	4.6
ATAC 8000	37	9.58	0.35	3.6	9.5	37	4.39	0.18	4.0	4.4
All Chemistry Instruments	43	9.61	0.36	3.7	9.5	43	4.43	0.20	4.6	4.4
Olympus										
Olympus AU	6	9.93	0.34	3.5	10.1	6	4.98	0.31	6.3	5.1
Pointe Scientific/Landmark										
All Chemistry Instruments	9	10.31	0.39	3.8	10.2	9	5.36	0.27	5.0	5.4
Roche COBAS										
Roche Cobas Fara/Mira/Bio	54	9.32	0.49	5.2	9.3	56	4.26	0.34	8.0	4.2
Roche Integra	9	9.78	0.53	5.5	9.8	9	5.02	0.28	5.5	5.1
All Chemistry Instruments	63	9.38	0.52	5.5	9.3	65	4.36	0.43	9.8	4.3
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	43	9.88	0.44	4.4	10.0	43	5.39	0.21	3.9	5.4
ThermoDMA										
Roche Cobas Fara/Mira/Bio	5	10.18	0.65	6.4	10.1	5	5.14	0.40	7.9	5.1
All Chemistry Instruments	9	10.36	0.52	5.0	10.4	9	5.20	0.38	7.3	5.1
ThermoTrace										
Roche Cobas Fara/Mira/Bio	6	9.85	0.76	7.7	9.8	5	5.34	0.34	6.3	5.3
All Chemistry Instruments	7	10.04	0.86	8.6	9.8	6	5.35	0.30	5.6	5.3
VITROS										
VITROS 250,400,500,700,750,9	40	9.57	0.21	2.2	9.5	40	4.96	0.12	2.4	4.9
VITROS DT/DTII/DT60	30	9.54	0.33	3.4	9.5	30	5.02	0.22	4.4	5.1
All Chemistry Instruments	68	9.56	0.23	2.4	9.5	69	4.98	0.16	3.1	5.0

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 Methods	396	10.71	0.55	5.2	10.6
Abbott Aeroset					
Abbott Aeroset	8	11.40	0.14	1.2	11.4
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	6	11.77	0.31	2.7	11.7
Beckman					
Beckman Synchron	41	10.28	0.16	1.6	10.2
BMC					
BMC Reflotron/Plus	5	11.16	0.63	5.6	10.8
Dade / Dupont					
Dade Analyst	10	11.58	0.18	1.6	11.6
Dade Dimension/AR/ES/RxL/Xpa	43	10.72	0.19	1.8	10.8
All Chemistry Instruments	53	10.88	0.39	3.6	10.8
DCL					
Roche Cobas Fara/Mira/Bio	12	11.79	0.65	5.5	11.7
All Chemistry Instruments	16	11.41	0.90	7.9	11.5
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	6	10.75	0.39	3.6	10.7
ATAC 8000	37	10.58	0.46	4.3	10.6
All Chemistry Instruments	43	10.60	0.45	4.3	10.6
Olympus					
Olympus AU	6	10.87	0.49	4.5	11.2
Pointe Scientific/Landmark					
All Chemistry Instruments	9	11.03	0.36	3.2	11.1
Roche COBAS					
Roche Cobas Fara/Mira/Bio	54	10.41	0.62	6.0	10.4
Roche Integra	9	10.93	0.52	4.8	11.0
All Chemistry Instruments	63	10.48	0.63	6.0	10.4
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	43	10.87	0.47	4.3	10.9
ThermoDMA					
Roche Cobas Fara/Mira/Bio	5	10.82	0.54	5.0	10.7
All Chemistry Instruments	9	11.09	0.56	5.0	10.9
ThermoTrace					
Roche Cobas Fara/Mira/Bio	5	11.34	0.59	5.2	11.2
All Chemistry Instruments	6	11.55	0.73	6.4	11.6
VITROS					
VITROS 250,400,500,700,750,9	40	10.51	0.19	1.8	10.5
VITROS DT/DTII/DT60	29	10.43	0.40	3.8	10.4
All Chemistry Instruments	68	10.46	0.27	2.6	10.4

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 Methods	504	113.1	3.1	2.8	114	506	106.0	2.8	2.6	106
Abaxis Piccolo										
Abaxis Piccolo	6	108.3	1.9	1.7	109	6	103.3	1.2	1.2	104
ISE Diluted										
Abbott Aeroset	9	110.7	1.0	0.9	111	9	104.3	0.9	0.8	104
ATAC 8000	49	112.9	3.5	3.1	113	49	106.9	3.2	3.0	107
Beckman Synchron	48	111.3	1.8	1.7	111	49	104.7	1.5	1.4	105
Dade Dimension QuickLyte	6	112.0	2.0	1.8	112	6	103.8	1.5	1.4	104
Dade Dimension/AR/ES/RxL/Xpa	40	113.8	1.2	1.0	114	42	107.7	1.6	1.5	108
Olympus AU	7	109.6	1.3	1.2	110	7	103.1	1.1	1.0	103
Roche Cobas Fara/Mira/Bio	5	114.4	5.7	5.0	114	5	106.8	3.7	3.5	106
Roche Integra	11	113.5	1.3	1.1	113	11	106.5	1.8	1.6	106
All Chemistry Instruments	187	112.5	2.6	2.3	113	189	106.1	2.5	2.3	106

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										
ATAC 1500,2000,6000	6	113.2	1.5	1.3	114	7	105.3	1.4	1.3	105
ATAC 8000	10	112.7	4.2	3.7	112	10	106.9	3.2	3.0	107
AVL 9100 Series	7	114.9	2.4	2.1	115	7	107.1	2.9	2.7	108
Beckman Synchron	7	112.3	4.6	4.1	112	7	107.1	5.0	4.7	108
Chiron Diag. 614,644,654/Fas	6	113.7	2.0	1.7	113	6	104.8	2.3	2.2	105
Dade Dimension/AR/ES/RxL/Xpa	12	115.1	1.7	1.5	115	12	108.0	1.5	1.4	108
Medica EasyLyte/Plus	10	114.1	3.4	3.0	114	8	105.0	3.3	3.1	106
Roche Cobas Fara/Mira/Bio	87	115.3	1.6	1.4	116	87	107.7	1.6	1.5	108
Schiap./Alpha Wass. ACE/NexC	54	115.6	1.4	1.2	115	52	106.8	0.8	0.8	107
All Chemistry Instruments	212	114.9	2.2	1.9	115	208	107.3	1.9	1.7	107
Mercuric Nitrate Reagent										
Roche Cobas Fara/Mira/Bio	5	109.4	4.2	3.8	111	5	103.0	3.4	3.3	102
All Chemistry Instruments	9	109.8	5.1	4.7	110	9	103.9	3.5	3.3	104
VITROS										
VITROS 250,400,500,700,750,9	53	109.7	1.7	1.6	110	54	102.8	1.7	1.7	103
VITROS DT/DTII/DT60	5	109.0	2.2	2.1	109	5	100.8	1.8	1.8	101
All Chemistry Instruments	60	109.6	1.9	1.7	110	60	102.6	1.8	1.8	103
Specimen CH-13										
Specimen CH-14										
All Methods	507	94.0	2.9	3.1	94	502	109.2	2.8	2.6	109
Abaxis Piccolo										
Abaxis Piccolo	6	92.0	2.0	2.2	93	6	106.8	1.7	1.6	107
ISE Diluted										
Abbott Aeroset	9	92.6	0.7	0.8	93	9	108.6	0.9	0.8	109
ATAC 8000	48	97.3	2.7	2.7	98	48	110.0	3.4	3.1	110
Beckman Synchron	49	93.6	1.4	1.4	93	49	108.7	1.6	1.5	109
Dade Dimension QuickLyte	6	89.7	1.5	1.7	89	6	108.8	1.7	1.6	109
Dade Dimension/AR/ES/RxL/Xpa	42	94.8	2.1	2.2	95	41	112.0	1.6	1.5	112
Olympus AU	7	90.4	0.8	0.9	91	7	107.9	0.7	0.6	108
Roche Cobas Fara/Mira/Bio	5	94.6	5.4	5.7	93	11	110.7	2.4	2.2	110
Roche Integra	11	93.7	1.8	1.9	93	189	110.0	2.8	2.5	110
All Chemistry Instruments	189	94.5	2.8	3.0	94	502	109.2	2.8	2.6	109
ISE Undiluted										
ATAC 1500,2000,6000	6	90.8	0.8	0.8	91	6	106.5	0.8	0.8	107
ATAC 8000	10	97.1	1.9	2.0	97	10	109.8	3.7	3.3	110
AVL 9100 Series	7	95.0	3.6	3.7	96	7	109.7	2.6	2.3	110
Beckman Synchron	7	95.1	3.8	4.0	95	7	110.1	3.8	3.5	110
Chiron Diag. 614,644,654/Fas	6	92.2	2.2	2.4	93	6	108.3	2.6	2.4	109
Dade Dimension/AR/ES/RxL/Xpa	12	95.2	1.5	1.5	95	12	111.0	2.4	2.1	111
Medica EasyLyte/Plus	10	91.7	3.7	4.0	93	10	107.0	3.6	3.3	108
Roche Cobas Fara/Mira/Bio	87	95.3	1.6	1.6	96	85	110.6	1.7	1.6	111
Schiap./Alpha Wass. ACE/NexC	56	93.8	1.3	1.3	94	55	109.0	1.0	0.9	109
All Chemistry Instruments	210	94.6	2.0	2.2	95	209	109.7	2.1	1.9	110
Mercuric Nitrate Reagent										
Roche Cobas Fara/Mira/Bio	5	95.0	3.2	3.3	94	5	106.8	4.0	3.7	106
All Chemistry Instruments	9	95.3	3.6	3.8	94	9	106.9	4.3	4.0	106
VITROS										
VITROS 250,400,500,700,750,9	55	90.7	1.4	1.6	91	53	106.4	1.4	1.3	107
VITROS DT/DTII/DT60	5	87.4	2.9	3.3	89	5	102.2	2.2	2.1	102
All Chemistry Instruments	60	90.6	1.5	1.7	91	60	106.0	1.8	1.7	106

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

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	502	92.6	3.0	3.3	92
Abaxis Piccolo					
Abaxis Piccolo	6	91.5	1.5	1.7	92
ISE Diluted					
Abbott Aeroset	9	91.3	0.7	0.8	91
ATAC 8000	48	96.8	3.2	3.3	96
Beckman Synchron	49	92.8	1.4	1.5	93
Dade Dimension QuickLyte	6	88.8	1.8	2.1	88
Dade Dimension/AR/ES/RxL/Xpa	42	93.5	2.5	2.7	94
Olympus AU	7	89.7	0.8	0.8	90
Roche Cobas Fara/Mira/Bio	11	92.5	2.0	2.1	92
Roche Integra	188	93.5	3.1	3.3	93
All Chemistry Instruments	502	92.6	3.0	3.3	92
ISE Undiluted					
ATAC 1500,2000,6000	6	87.7	1.4	1.6	88
ATAC 8000	10	96.3	2.5	2.6	96
AVL 9100 Series	7	93.4	4.0	4.2	95
Beckman Synchron	7	93.6	3.0	3.2	94
Chiron Diag. 614,644,654/Fas	6	90.7	2.2	2.4	91
Dade Dimension/AR/ES/RxL/Xpa	12	93.8	1.9	2.1	94
Medica EasyLyte/Plus	10	88.6	3.9	4.5	90
Roche Cobas Fara/Mira/Bio	84	93.5	1.6	1.7	94
Schiap./Alpha Wass. ACE/NexC	55	91.7	1.3	1.4	92
All Chemistry Instruments	210	92.8	2.4	2.6	93
Mercuric Nitrate Reagent					
Roche Cobas Fara/Mira/Bio	5	93.8	3.6	3.8	92
All Chemistry Instruments	9	94.3	3.5	3.7	93
VITROS					
VITROS 250,400,500,700,750,9	54	89.6	1.2	1.3	90
VITROS DT/DTII/DT60	5	85.4	3.0	3.5	86
All Chemistry Instruments	60	89.3	1.5	1.7	89

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 Methods	467	37.2	3.0	8.1	37	468	31.5	2.6	8.2	32
Enzymatic Reagent										
Abbott Aeroset	9	40.7	8.4	20.6	40	9	35.4	7.6	21.4	36
Dade Dimension/AR/ES/RxL/Xpa	23	40.1	2.0	5.0	40	22	34.0	1.5	4.3	34
Olympus AU	6	35.3	1.6	4.6	36	6	29.2	1.0	3.4	30
Roche Cobas Fara/Mira/Bio	83	37.1	2.4	6.4	37	85	32.0	2.1	6.7	32
Roche Integra	10	38.7	1.3	3.5	39	10	32.3	1.3	3.9	32
Schiap./Alpha Wass. ACE/NexC	37	37.1	2.0	5.3	37	38	31.2	2.1	6.8	32
Technicon RA,XT,OPERA	7	32.1	6.3	19.5	34	7	27.9	4.3	15.3	28
All Chemistry Instruments	198	37.2	3.1	8.2	37	200	31.8	2.7	8.6	32
ISE Diluted										
ATAC 8000	44	38.4	3.6	9.5	39	45	33.1	3.0	9.1	33
Beckman Synchron	48	36.0	1.7	4.6	36	47	30.7	1.3	4.2	31
Dade Dimension/AR/ES/RxL/Xpa	23	39.9	2.4	6.0	40	23	32.3	2.0	6.2	32
All Chemistry Instruments	127	37.7	3.2	8.4	37	127	31.9	2.5	7.8	32

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										
ATAC 8000	44	38.4	3.6	9.5	39	45	33.1	3.0	9.1	33
Beckman Synchron	48	36.0	1.7	4.6	36	47	30.7	1.3	4.2	31
Dade Dimension/AR/ES/RxL/Xpa	23	39.9	2.4	6.0	40	23	32.3	2.0	6.2	32
All Chemistry Instruments	127	37.7	3.2	8.4	37	127	31.9	2.5	7.8	32
ISE Undiluted										
ATAC 8000	9	38.1	1.7	4.4	38	9	32.6	2.1	6.4	32
Beckman Synchron	7	35.7	1.5	4.2	36	7	29.7	1.4	4.6	29
Dade Dimension/AR/ES/RxL/Xpa	9	39.3	3.2	8.2	38	9	32.9	2.8	8.7	32
Roche Cobas Fara/Mira/Bio	9	37.4	2.2	6.0	37	9	32.1	3.1	9.8	32
Schiap./Alpha Wass. ACE/NexC	14	37.0	1.9	5.2	37	14	31.7	1.5	4.7	32
All Chemistry Instruments	54	37.5	2.1	5.6	37	55	31.9	2.3	7.2	32
VITROS										
VITROS 250,400,500,700,750,9	50	35.2	1.3	3.6	35	50	29.6	1.1	3.8	30
All Chemistry Instruments	55	35.4	1.4	3.9	35	55	29.7	1.3	4.3	30

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 Methods	583	5.01	0.12	2.4	5.0	578	4.36	0.10	2.4	4.4
Abaxis Piccolo										
Abaxis Piccolo	6	5.13	0.41	8.1	5.3	6	4.55	0.33	7.2	4.7
BMC										
BMC Reflotron/Plus	10	5.23	0.15	2.9	5.2	10	4.52	0.12	2.7	4.5
All Chemistry Instruments	10	5.23	0.15	2.9	5.2	10	4.52	0.12	2.7	4.5
ISE - Calibrated to Flame										
AVL 9100 Series	8	4.90	0.08	1.5	4.9	8	4.23	0.05	1.1	4.2
All Chemistry Instruments	12	4.93	0.12	2.5	4.9	12	4.26	0.08	1.9	4.2
ISE Diluted										
Abbott Aeroset	9	4.89	0.09	1.9	4.9	9	4.23	0.11	2.6	4.2
ATAC 8000	48	5.13	0.17	3.3	5.1	47	4.49	0.13	2.9	4.5
Beckman Synchron	47	4.95	0.10	2.0	4.9	47	4.33	0.07	1.7	4.3
BMH - All Hitachi Analyzers	6	4.95	0.16	3.3	4.9	6	4.32	0.15	3.4	4.3
Dade Dimension/AR/ES/RxL/Xpa	41	4.93	0.05	1.0	4.9	41	4.30	0.05	1.2	4.3
Olympus AU	6	4.88	0.04	0.8	4.9	6	4.30	0.00	0.0	4.3
Roche Cobas Fara/Mira/Bio	6	5.02	0.16	3.2	5.1	6	4.37	0.10	2.4	4.4
Roche Integra	11	4.92	0.04	0.8	4.9	11	4.32	0.04	0.9	4.3
All Chemistry Instruments	184	4.98	0.13	2.6	5.0	186	4.36	0.12	2.7	4.3
ISE Undiluted										
ATAC 1500,2000,6000	6	5.08	0.12	2.3	5.1	6	4.38	0.12	2.7	4.4
ATAC 8000	10	5.11	0.44	8.6	5.2	10	4.48	0.30	6.6	4.6
AVL 9100 Series	6	4.97	0.05	1.0	5.0	6	4.28	0.04	1.0	4.3
Beckman Synchron	9	5.02	0.07	1.3	5.0	9	4.37	0.10	2.3	4.4
Chiron Diag. 614,644,654/Fas	6	4.88	0.13	2.7	4.9	6	4.25	0.10	2.5	4.3
Dade Dimension/AR/ES/RxL/Xpa	14	4.95	0.08	1.5	5.0	13	4.35	0.05	1.2	4.3
Medica EasyLyte/Plus	14	4.94	0.13	2.7	4.9	14	4.28	0.11	2.5	4.3
Roche Cobas Fara/Mira/Bio	89	5.05	0.09	1.8	5.1	88	4.40	0.07	1.5	4.4
Schiap./Alpha Wass. ACE/NexC	50	5.08	0.05	1.1	5.1	50	4.38	0.05	1.0	4.4
All Chemistry Instruments	236	5.03	0.11	2.2	5.1	233	4.37	0.09	2.1	4.4
VITROS										
VITROS 250,400,500,700,750,9	57	4.96	0.08	1.5	5.0	57	4.33	0.08	1.8	4.3
VITROS DT/DTII/DT60	49	5.06	0.10	1.9	5.1	49	4.36	0.11	2.4	4.4
All Chemistry Instruments	110	5.01	0.11	2.1	5.0	109	4.35	0.10	2.2	4.3

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					
ATAC 1500,2000,6000	6	3.15	0.10	3.3	3.2
ATAC 8000	10	3.33	0.08	2.5	3.3
AVL 9100 Series	6	2.98	0.04	1.4	3.0
Beckman Synchron	9	3.12	0.04	1.4	3.1
Chiron Diag. 614,644,654/Fas	6	3.02	0.08	2.5	3.0
Dade Dimension/AR/ES/RxL/Xpa	14	3.14	0.06	2.0	3.1
Medica EasyLyte/Plus	14	3.03	0.08	2.7	3.1
Roche Cobas Fara/Mira/Bio	86	3.18	0.04	1.4	3.2
Schiap./Alpha Wass. ACE/NexC	50	3.11	0.05	1.6	3.1
All Chemistry Instruments	234	3.13	0.09	3.0	3.1
VITROS					
VITROS 250,400,500,700,750,9	58	3.12	0.06	1.9	3.1
VITROS DT/DTII/DT60	48	3.07	0.09	3.1	3.1
All Chemistry Instruments	106	3.11	0.07	2.3	3.1

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 Methods	557	155.7	3.0	1.9	156	557	145.0	2.5	1.7	145
Abaxis Piccolo										
Abaxis Piccolo	6	154.0	2.5	1.6	154	6	143.7	2.8	2.0	144
ISE - Calibrated to Flame										
AVL 9100 Series	6	153.0	0.9	0.6	153	6	141.3	1.6	1.2	142
All Chemistry Instruments	11	153.4	2.7	1.8	153	11	142.1	1.8	1.3	143
ISE Diluted										
Abbott Aeroset	8	155.8	0.7	0.5	156	8	145.6	0.7	0.5	146
ATAC 8000	46	155.6	1.9	1.2	156	47	145.9	1.8	1.2	146
Beckman Synchron	45	154.1	1.9	1.2	154	47	143.6	1.6	1.1	144
BMH - All Hitachi Analyzers	6	154.5	2.3	1.5	155	6	144.2	1.5	1.0	145
Dade Dimension/AR/ES/RxL/Xpa	38	153.4	1.6	1.0	154	39	143.9	1.6	1.1	144
Olympus AU	6	150.8	1.5	1.0	151	6	142.2	0.8	0.5	142
Roche Cobas Fara/Mira/Bio	5	156.4	3.3	2.1	157	5	145.0	2.9	2.0	146
Roche Integra	10	151.6	1.5	1.0	152	10	142.2	1.8	1.2	142
All Chemistry Instruments	180	154.2	2.4	1.6	154	182	144.3	2.1	1.5	144
ISE Undiluted										
ATAC 1500,2000,6000	6	155.2	1.5	0.9	156	6	144.7	1.2	0.8	145
ATAC 8000	10	154.2	3.5	2.2	155	10	144.9	3.8	2.6	145
AVL 9100 Series	6	153.2	1.2	0.8	154	6	142.2	0.4	0.3	142
Beckman Synchron	9	154.2	3.2	2.1	154	9	144.6	3.8	2.6	145
Chiron Diag. 614,644,654/Fas	6	156.2	2.0	1.3	156	6	144.7	1.0	0.7	145
Dade Dimension/AR/ES/RxL/Xpa	16	154.2	2.0	1.3	154	16	144.0	1.4	1.0	144
Medica EasyLyte/Plus	13	153.6	2.5	1.6	153	13	143.5	2.5	1.8	143
Roche Cobas Fara/Mira/Bio	89	157.8	2.0	1.3	158	89	146.7	1.9	1.3	147
Schiap./Alpha Wass. ACE/NexC	52	156.2	1.5	1.0	156	51	143.6	0.9	0.6	144
All Chemistry Instruments	241	156.1	2.8	1.8	156	241	145.0	2.5	1.7	145
VITROS										
VITROS 250,400,500,700,750,9	57	157.9	2.5	1.6	158	58	146.7	2.2	1.5	147
VITROS DT/DTII/DT60	30	158.4	1.8	1.1	159	30	147.0	2.0	1.3	147
All Chemistry Instruments	90	157.9	2.4	1.5	158	90	146.7	2.1	1.5	147

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					
ATAC 1500,2000,6000	6	124.5	1.0	0.8	125
ATAC 8000	10	126.0	3.6	2.8	126
AVL 9100 Series	6	118.8	2.9	2.4	120
Beckman Synchron	9	124.3	4.2	3.4	126
Chiron Diag. 614,644,654/Fas	6	122.8	0.8	0.6	123
Dade Dimension/AR/ES/RxL/Xpa	16	124.1	0.9	0.7	124
Medica EasyLyte/Plus	13	123.2	2.0	1.7	122
Roche Cobas Fara/Mira/Bio	90	124.8	2.2	1.8	125
Schiap./Alpha Wass. ACE/NexC	52	120.9	0.8	0.7	121
All Chemistry Instruments	239	123.5	2.6	2.1	124
VITROS					
VITROS 250,400,500,700,750,9	58	124.7	2.0	1.6	125
VITROS DT/DTII/DT60	30	124.8	1.9	1.6	125
All Chemistry Instruments	90	124.7	2.0	1.6	125

Serum hCG – Qualitative

<u>Method</u>	<u>Sensitivity Level mIU/mL</u>	<u>Specimen HCG-11</u>		<u>Specimen HCG-12</u>	
		<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	-	-	242	241	-
Abbott IMx	<2.0	-	2	2	-
Abbott TESTPACK - Combo	25	-	1	1	-
Abbott TESTPACK Plus- Combo	-	-	1	1	-
AimStep Combo Pregnancy	-	-	1	1	-
Applied Biotech SureStep	20	-	2	2	-
Beckman Coulter ICON 25 hCG	25	-	25	25	-
Beckman Coulter ICON II HCG	10	-	2	2	-
BioStar Acceava hCG Comb	10	-	2	2	-
Genzyme Contrast (10 mIU)	10	-	5	5	-
Genzyme Contrast (20 mIU)	20	-	6	6	-
Genzyme Signify - Urine/Serum	20	-	23	23	-
Hybritech Tandem ICON II	10	-	2	2	-
LifeSign Status hCG	5	-	4	4	-
Mainline Confirms	20	-	8	8	-
Polymedco Poly stat hCG	20	-	32	32	-
Quidel CARDS QS (10 mIU)	10	-	24	23	-
Quidel QuickVue Combo (25 mIU)	25	-	1	1	-
Quidel QuickVue One-Step Combo	25	-	81	81	-
Stanbio QUPID Plus	20	-	3	3	-
Sure-Vue hCG - 25mIU	25	-	7	7	-
Sure-Vue hCG-STAT (10mIU)	10	-	4	4	-
Wampole PreVue	25	-	2	2	-

Serum hCG – Qualitative

<u>Method</u>	<u>Sensitivity Level</u> <u>MIU/mL</u>	Specimen HCG-13		Specimen HCG-14	
		<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	-	-	240	240	1
Abbott IMx	<2.0	-	2	2	-
Abbott TESTPACK - Combo	25	-	1	1	-
Abbott TESTPACK Plus- Combo	-	-	1	1	-
AimStep Combo Pregnancy	-	-	1	1	-
Applied Biotech SureStep	20	-	2	2	-
Beckman Coulter ICON 25 hCG	25	-	24	25	-
Beckman Coulter ICON II HCG	10	-	2	2	-
BioStar Acceava hCG Comb	10	-	2	2	-
Genzyme Contrast (10 mIU)	10	-	5	5	-
Genzyme Contrast (20 mIU)	20	-	6	6	-
Genzyme Signify - Urine/Serum	20	-	23	23	-
Hybritech Tandem ICON II	10	-	2	2	-
LifeSign Status hCG	5	-	4	4	-
Mainline Confirms	20	-	8	8	-
Polymedco Poly stat hCG	20	-	32	32	-
Quidel CARDS QS (10 mIU)	10	-	23	23	-
Quidel QuickVue Combo (25 mIU)	25	-	1	1	-
Quidel QuickVue One-Step Combo	25	-	81	80	1
Stanbio QUPID Plus	20	-	3	3	-
Sure-Vue hCG - 25mIU	25	-	7	7	-
Sure-Vue hCG-STAT (10mIU)	10	-	4	4	-
Wampole PreVue	25	-	2	2	-

Specimen HCG-15

All Methods	-	-	241
Abbott IMx	<2.0	-	2
Abbott TESTPACK - Combo	25	-	1
Abbott TESTPACK Plus - Combo	-	-	1
AimStep Combo Pregnancy	-	-	1
Applied Biotech SureStep	20	-	2
Beckman Coulter ICON 25 hCG	25	-	25
Beckman Coulter ICON II HCG	10	-	2
BioStar Acceava hCG Comb	10	-	2
Genzyme Contrast (10 mIU)	10	-	5
Genzyme Contrast (20 mIU)	20	-	6
Genzyme Signify - Urine/Serum	20	-	23
Hybritech Tandem ICON II	10	-	2
LifeSign Status hCG	5	-	4
Mainline Confirms	20	-	8
Polymedco Poly stat hCG	20	-	32
Quidel CARDS QS (10 mIU)	10	-	23
Quidel QuickVue Combo (25 mIU)	25	-	1
Quidel QuickVue One-Step Combo	25	-	81
Stanbio QUPID Plus	20	-	3
Sure-Vue hCG - 25mIU	25	-	7
Sure-Vue hCG-STAT (10mIU)	10	-	4
Wampole PreVue	25	-	2

Serum hCG – Quantitative (mIU/mL)

The vendor assay values for specimens HCG-12 and HCG-14 are <2.0 mIU/mL and <2.0 mIU/mL, respectively.

<u>Method</u>	<u>Specimen HCG-11</u>					<u>Specimen HCG-13</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	41	1578.2	427.2	27.1	1558	40	6414.4	1212.9	18.9	6314
Abbott AxSYM	6	1651.8	172.9	10.5	1655	5	7441.4	488.4	6.6	7336
Abbott IMx	5	1549.2	98.2	6.3	1558	6	6754.3	479.2	7.1	6668
TOSHO AIA PACK - Beta	5	1574.0	98.1	6.2	1578	5	6058.4	389.5	6.4	6018

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	41	3419.5	597.3	17.5	3324
Abbott AxSYM	6	3834.0	447.0	11.7	3887
Abbott IMx	6	3561.0	178.6	5.0	3585
TOSHO AIA PACK - Beta	5	3256.8	326.2	10.0	3140

Acid Phosphatase

One participant reported results for Acid Phosphatase. The vendor assays values for specimens CH-11 and CH-12 are <0.0 U/L and 0.1U/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 Methods	545	84.7	10.2	12.0	82	540	157.0	15.9	10.2	152
Abaxis Piccolo										
Abaxis Piccolo	6	73.2	4.0	5.5	72	6	140.8	3.9	2.7	141
Abbott Aeroset										
Abbott Aeroset	10	86.7	2.6	3.0	87	10	164.0	4.9	3.0	164
ATAC 1500,2000,6000										
Elan Diagnostics (Bio-Chem)	8	82.6	4.1	5.0	84	8	153.5	5.6	3.7	154
ATAC 8000										
Elan Diagnostics (Bio-Chem)	61	80.1	4.2	5.3	80	60	149.5	7.8	5.2	151
All Chemistry Reagents	63	80.0	4.2	5.3	80	62	149.3	7.7	5.2	150
Beckman Synchron										
Beckman	49	80.4	2.5	3.1	81	49	150.8	3.8	2.5	151
Carolina Liquid Chemistries	5	82.4	3.5	4.3	84	5	153.8	7.4	4.8	152
All Chemistry Reagents	55	80.5	2.6	3.3	81	54	150.8	3.7	2.5	151
BMH 704, 705, 717										
All Chemistry Reagents	5	81.6	13.6	16.7	90	5	149.0	23.3	15.6	159
Chiron Diagnostics 550 Express										
Bayer (Express / Plus)	7	76.6	5.1	6.6	77	7	146.4	10.0	6.8	149
All Chemistry Reagents	9	74.6	6.5	8.8	77	9	143.7	10.8	7.5	145
Cholestech LDX										
Cholestech LDX	12	125.6	14.0	11.2	124	12	253.4	32.7	12.9	251
Dade Analyst										
Dade / Dupont	11	72.3	5.3	7.4	71	11	135.6	9.1	6.7	132
All Chemistry Reagents	12	71.8	5.3	7.4	71	12	135.6	8.7	6.4	133
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	65	99.2	2.6	2.6	99	65	174.9	4.2	2.4	175
Olympus AU										
Olympus	7	78.6	4.3	5.5	77	7	146.9	4.2	2.9	147
Roche Cobas Fara/Mira/Bio										
DCL	12	77.8	3.1	4.0	78	12	143.2	5.7	4.0	144
Roche COBAS	5	74.6	1.7	2.2	75	5	137.0	7.1	5.2	140
ThermoDMA	85	81.0	2.7	3.3	81	85	151.7	4.6	3.0	152
All Chemistry Reagents	10	78.0	6.8	8.7	78	10	146.7	11.8	8.0	143

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 Methods	539	301.3	30.9	10.3	293
Abaxis Piccolo					
Abaxis Piccolo	6	266.0	7.9	3.0	265
Abbott Aeroset					
Abbott Aeroset	10	316.8	8.9	2.8	317
ATAC 1500,2000,6000					
Elan Diagnostics (Bio-Chem)	8	295.9	8.2	2.8	298
ATAC 8000					
Elan Diagnostics (Bio-Chem)	60	291.4	13.0	4.5	293
All Chemistry Reagents	62	291.3	12.8	4.4	293
Beckman Synchron					
Beckman	49	289.2	7.3	2.5	290
Carolina Liquid Chemistries	5	291.6	10.7	3.7	291
All Chemistry Reagents	55	289.5	7.6	2.6	291
BMH 704, 705, 717					
All Chemistry Reagents	5	285.0	41.8	14.7	307
Chiron Diagnostics 550 Express					
Bayer (Express / Plus)	7	294.9	19.4	6.6	298
All Chemistry Reagents	9	290.8	20.6	7.1	294
Cholestech LDX					
Cholestech LDX	6	341.8	51.2	15.0	339
Dade Analyst					
Dade / Dupont	10	254.3	12.2	4.8	254
All Chemistry Reagents	11	254.5	11.6	4.6	254
Dade Dimension/AR/ES/RxL/Xpand					
Dade / Dupont	65	325.2	7.2	2.2	325
Olympus AU					
Olympus	7	283.3	9.3	3.3	284
Roche Cobas Fara/Mira/Bio					
DCL	12	273.7	7.8	2.8	273
JAS Diagnostics, Inc.	5	263.8	10.6	4.0	268
Roche COBAS	83	289.9	7.8	2.7	290
ThermoDMA	8	272.9	10.0	3.7	275
All Chemistry Reagents	120	285.0	13.2	4.6	287
Roche Integra					
Roche COBAS	12	332.5	13.5	4.1	336
Schiap./Alpha Wass. ACE/NexCT					
Schiapparelli/Alpha Wasserma	68	272.3	7.5	2.7	273
Technicon RA,XT,OPERA					
All Chemistry Reagents	8	311.6	50.5	16.2	298
VITROS 250,400,500,700,750,950					
VITROS	59	355.9	7.2	2.0	357
VITROS DT/DTII/DT60					
VITROS	12	359.4	15.9	4.4	356

Alkaline Phosphatase (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 Methods	522	97.3	12.2	12.6	96	524	163.5	21.6	13.2	163
Abaxis Piccolo										
Abaxis Piccolo	5	112.6	8.5	7.6	117	5	169.4	10.0	5.9	176
Abbott Aeroset										
Abbott Aeroset	9	107.3	3.7	3.5	106	9	178.3	5.4	3.0	180
ATAC 1500,2000,6000										
Elan Diagnostics (Bio-Chem)	9	82.3	10.1	12.3	87	9	157.4	10.3	6.5	159
ATAC 8000										
Elan Diagnostics (Bio-Chem)	59	95.3	6.5	6.8	96	58	161.9	11.1	6.9	163
All Chemistry Reagents	59	95.3	6.5	6.8	96	60	163.3	13.2	8.1	164

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-13 (cont'd)</u>					<u>Specimen CH-14 (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 Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	63	356.3	14.4	4.0	354	65	65.0	5.5	8.4	65
Olympus AU										
Olympus	7	326.4	15.0	4.6	334	7	59.9	2.2	3.7	60
Roche Cobas Fara/Mira/Bio										
DCL	12	301.8	24.7	8.2	305	12	51.7	4.7	9.1	52
JAS Diagnostics, Inc.	5	302.0	9.3	3.1	306	5	54.0	3.9	7.3	54
Roche COBAS	82	297.3	19.2	6.5	299	83	52.3	4.7	8.9	52
ThermoDMA	11	337.9	17.8	5.3	339	10	60.1	5.9	9.8	61
All Chemistry Reagents	119	302.8	24.2	8.0	303	117	53.1	5.1	9.7	52
Roche Integra										
Roche COBAS	12	330.9	8.1	2.4	330	12	55.7	2.3	4.1	56
Schiap./Alpha Wass. ACE/NexCT										
Schiapparelli/Alpha Wasserma	66	363.4	19.1	5.3	367	66	63.2	3.4	5.4	64
Technicon RA,XT,OPERA										
DCL	5	372.8	39.8	10.7	378	5	64.0	7.1	11.2	63
All Chemistry Reagents	9	359.9	63.5	17.7	351	9	61.3	8.8	14.3	60
VITROS 250,400,500,700,750,950										
VITROS	59	234.9	14.0	6.0	234	58	52.9	2.7	5.1	53
VITROS DT/DTII/DT60										
VITROS	5	229.0	17.6	7.7	227	5	51.8	8.0	15.5	50
Specimen CH-15										
All Methods	522	288.6	41.3	14.3	291					
Abaxis Piccolo										
Abaxis Piccolo	5	278.0	21.1	7.6	292					
Abbott Aeroset										
Abbott Aeroset	9	315.7	11.9	3.8	315					
ATAC 1500,2000,6000										
Elan Diagnostics (Bio-Chem)	9	299.9	17.2	5.7	299					
ATAC 8000										
Elan Diagnostics (Bio-Chem)	57	286.1	17.0	6.0	287					
All Chemistry Reagents	58	287.1	18.5	6.4	287					
Beckman Synchron										
Beckman	49	274.5	13.2	4.8	275					
Carolina Liquid Chemistries	5	297.8	40.2	13.5	310					
All Chemistry Reagents	56	277.1	18.4	6.6	277					
BMH 704, 705, 717										
All Chemistry Reagents	5	327.2	30.7	9.4	345					
Chiron Diagnostics 550 Express										
Bayer (Express / Plus)	8	332.4	5.7	1.7	331					
All Chemistry Reagents	10	335.8	12.7	3.8	331					
Dade Analyst										
Dade / Dupont	10	351.2	11.3	3.2	350					
All Chemistry Reagents	11	352.4	11.4	3.2	350					
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	64	322.0	13.4	4.2	320					
Olympus AU										
Olympus	7	297.3	15.5	5.2	306					
Roche Cobas Fara/Mira/Bio										
DCL	12	274.7	18.8	6.8	276					
JAS Diagnostics, Inc.	5	275.4	7.7	2.8	279					
Roche COBAS	82	268.1	20.3	7.6	272					
ThermoDMA	10	304.2	15.6	5.1	307					
All Chemistry Reagents	117	273.9	22.3	8.1	276					
Roche Integra										
Roche COBAS	12	300.3	8.4	2.8	298					

Alkaline Phosphatase (IU/L)**Specimen CH-15 (Cont'd)**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Schiap./Alpha Wass. ACE/NexCT					
Schiapparelli/Alpha Wasserma	66	330.4	17.2	5.2	334
Technicon RA,XT,OPERA					
DCL	5	338.2	35.1	10.4	340
All Chemistry Reagents	9	327.0	56.2	17.2	312
VITROS 250,400,500,700,750,950					
VITROS	58	219.2	11.8	5.4	219
VITROS DT/DTII/DT60					
VITROS	5	211.6	18.6	8.8	213

AST (SGOT) (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 Methods	540	75.4	20.8	27.5	66	540	139.8	34.8	24.9	125
Abaxis Piccolo										
Abaxis Piccolo	6	66.8	3.3	5.0	67	6	124.2	7.2	5.8	123
Abbott Aerosep										
Abbott Aerosep	10	66.6	3.9	5.8	67	10	127.7	6.7	5.3	126
ATAC 1500,2000,6000										
Elan Diagnostics (Bio-Chem)	8	69.1	6.1	8.8	70	8	129.0	7.1	5.5	128
ATAC 8000										
Elan Diagnostics (Bio-Chem)	59	61.1	5.4	8.8	62	58	113.4	8.6	7.6	114
All Chemistry Reagents	63	61.3	5.3	8.7	63	62	113.5	8.6	7.6	114
Beckman Synchron										
Beckman	48	64.1	3.5	5.4	65	49	122.0	6.7	5.5	124
Carolina Liquid Chemistries	5	65.8	5.0	7.6	64	5	127.4	9.0	7.0	123
All Chemistry Reagents	54	64.3	3.6	5.6	65	55	122.6	7.0	5.7	124
BMH 704, 705, 717										
All Chemistry Reagents	5	63.2	7.4	11.6	63	5	122.4	11.5	9.4	124
Chiron Diagnostics 550 Express										
Bayer (Express / Plus)	9	58.0	4.9	8.4	58	9	112.8	9.0	8.0	114
All Chemistry Reagents	11	56.2	6.0	10.6	58	11	109.5	11.0	10.1	113
Dade Analyst										
Dade / Dupont	11	131.9	2.3	1.8	132	11	228.3	5.1	2.2	226
All Chemistry Reagents	12	131.6	2.5	1.9	132	12	228.1	4.9	2.2	226
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	63	112.0	3.3	3.0	113	65	200.3	5.7	2.9	201
Olympus AU										
Olympus	7	62.9	4.0	6.3	63	7	121.3	7.7	6.3	123
Roche Cobas Fara/Mira/Bio										
DCL	12	62.9	5.9	9.4	64	12	116.8	9.2	7.9	118
JAS Diagnostics, Inc.	5	59.6	3.5	5.9	58	5	110.8	7.6	6.9	110
Roche COBAS	85	64.3	4.0	6.3	65	86	120.5	7.5	6.2	122
ThermoDMA	7	65.4	6.3	9.6	62	7	122.4	12.6	10.3	120
All Chemistry Reagents	124	64.3	4.9	7.7	65	122	119.5	8.0	6.7	121
Roche Integra										
Roche COBAS	12	68.5	4.2	6.1	70	12	132.1	7.3	5.6	135
Schiap./Alpha Wass. ACE/NexCT										
Schiapparelli/Alpha Wasserma	67	64.3	4.6	7.1	65	68	120.2	7.4	6.2	122
Technicon RA,XT,OPERA										
DCL	5	64.0	7.8	12.3	63	5	126.0	11.4	9.0	121
All Chemistry Reagents	9	65.6	6.4	9.7	66	9	125.9	8.6	6.8	124
VITROS 250,400,500,700,750,950										
VITROS	59	95.4	4.5	4.7	96	59	174.9	8.7	5.0	174
VITROS DT/DTII/DT60										
VITROS	8	118.9	7.8	6.5	119	8	211.3	13.3	6.3	211

AST (SGOT) (IU/L)

Specimen CH-15 (Cont'd)

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
Beckman Synchron					
Beckman	49	244.0	11.0	4.5	247
Carolina Liquid Chemistries	5	255.8	22.6	8.8	246
All Chemistry Reagents	55	245.2	12.6	5.1	247
BMH 704, 705, 717					
All Chemistry Reagents	5	250.0	26.4	10.5	258
Chiron Diagnostics 550 Express					
Bayer (Express / Plus)	9	235.9	16.0	6.8	236
All Chemistry Reagents	11	230.1	19.8	8.6	231
Dade Analyst					
Dade / Dupont	11	418.7	14.3	3.4	416
All Chemistry Reagents	12	418.3	13.7	3.3	416
Dade Dimension/AR/ES/RxL/Xpand					
Dade / Dupont	64	375.8	10.1	2.7	376
Olympus AU					
Olympus	7	243.0	12.2	5.0	241
Roche Cobas Fara/Mira/Bio					
DCL	12	234.8	13.6	5.8	236
JAS Diagnostics, Inc.	5	219.8	13.0	5.9	217
Roche COBAS	85	243.9	12.5	5.1	247
ThermoDMA	7	245.4	21.1	8.6	245
All Chemistry Reagents	122	241.9	15.0	6.2	245
Roche Integra					
Roche COBAS	12	269.8	14.1	5.2	277
Schiap./Alpha Wass. ACE/NexCT					
Schiapparelli/Alpha Wasserma	68	239.6	12.8	5.4	240
Technicon RA,XT,OPERA					
DCL	5	262.0	20.4	7.8	259
All Chemistry Reagents	9	256.8	16.6	6.5	249
VITROS 250,400,500,700,750,950					
VITROS	58	342.2	18.2	5.3	342
VITROS DT/DTII/DT60					
VITROS	8	407.1	16.5	4.0	404

Creatine Kinase (IU/L)

Specimen CH-11

Specimen CH-12

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	228	390.3	89.4	22.9	402	227	302.3	68.8	22.8	311
Abbott Aeroset										
Abbott Aeroset	8	510.6	9.9	1.9	511	8	391.3	8.5	2.2	389
ATAC 8000										
Elan Diagnostics (Bio-Chem)	23	441.1	32.1	7.3	441	23	337.5	24.2	7.2	336
All Chemistry Reagents	25	439.1	33.3	7.6	441	25	336.8	24.8	7.4	336
Beckman Synchron										
Beckman	27	514.9	17.5	3.4	512	27	396.3	13.8	3.5	397
All Chemistry Reagents	29	512.1	21.6	4.2	511	29	394.4	17.7	4.5	397
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	37	255.8	19.9	7.8	257	37	195.3	15.1	7.7	196

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

All Methods	227	117.6	27.5	23.4	123
Abbott Aeroset					
Abbott Aeroset	8	151.6	4.2	2.8	151
ATAC 8000					
Elan Diagnostics (Bio-Chem)	23	130.0	9.8	7.5	133
All Chemistry Reagents	25	129.9	10.3	7.9	133
Beckman Synchron					
Beckman	27	155.1	5.4	3.5	156
All Chemistry Reagents	29	154.2	7.1	4.6	156
Dade Dimension/AR/ES/RxL/Xpand					
Dade / Dupont	37	73.1	6.7	9.1	73
Roche Cobas Fara/Mira/Bio					
DCL	7	138.3	4.2	3.0	139
Roche COBAS	24	99.8	7.0	7.0	98
ThermoDMA	5	125.6	4.7	3.8	126
All Chemistry Reagents	43	113.8	17.8	15.6	109
Roche Integra					
Roche COBAS	5	133.0	7.0	5.2	133
Schiap./Alpha Wass. ACE/NexCT					
Schiapparelli/Alpha Wasserma	23	131.4	4.0	3.0	131
VITROS 250,400,500,700,750,950					
VITROS	20	110.7	9.6	8.7	111
VITROS DT/DTII/DT60					
VITROS	9	112.3	15.4	13.7	104

GGT (IU/L)**Specimen CH-11****Specimen CH-12**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	196	73.7	17.1	23.3	72	196	143.9	32.5	22.6	143
ATAC 8000										
Elan Diagnostics (Bio-Chem)	10	58.1	6.6	11.3	60	10	114.9	10.5	9.2	117
All Chemistry Reagents	11	58.5	6.3	10.8	60	11	115.6	10.3	8.9	119
Beckman Synchron										
Beckman	35	76.0	3.5	4.6	77	34	153.1	6.2	4.0	154
All Chemistry Reagents	38	75.7	3.8	5.0	77	37	152.6	7.0	4.6	154
Chiron Diagnostics 550 Express										
All Chemistry Reagents	11	78.1	2.2	2.8	77	11	155.5	6.6	4.2	154
Dade Analyst	12	78.1	2.1	2.6	78	12	155.1	6.5	4.2	154
Dade / Dupont										
All Chemistry Reagents	24	94.3	3.6	3.8	95	24	178.5	5.3	3.0	178
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	5	65.8	3.7	5.6	67	5	126.2	7.6	6.0	129
Roche Cobas Fara/Mira/Bio										
DCL	7	71.1	6.3	8.8	70	7	139.1	13.5	9.7	138
Roche COBAS	30	55.6	3.1	5.6	56	30	108.0	5.2	4.8	109
All Chemistry Reagents	41	58.3	7.8	13.4	57	40	113.5	12.9	11.3	111
Schiap./Alpha Wass. ACE/NexCT										
Schiapparelli/Alpha Wasserma	17	58.2	3.1	5.3	59	17	107.4	4.4	4.1	106
VITROS 250,400,500,700,750,950										
VITROS	19	107.1	3.2	2.9	107	19	206.8	6.7	3.2	208

Amylase (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 Methods	188	340.3	125.8	37.0	356
Abbott Aeroset					
Abbott Aeroset	5	454.4	7.2	1.6	456
ATAC 8000					
ThermoDNA	5	579.4	18.3	3.2	570
All Chemistry Reagents	10	527.0	98.7	18.7	569
Beckman Synchron					
Beckman	24	221.8	10.0	4.5	221
All Chemistry Reagents	25	221.9	9.8	4.4	221
Dade Analyst					
Dade / Dupont	11	478.4	13.3	2.8	479
All Chemistry Reagents	12	478.9	12.8	2.7	481
Dade Dimension/AR/ES/RxL/Xpand					
Dade / Dupont	26	472.2	8.6	1.8	470
Olympus AU					
Olympus	5	351.4	18.9	5.4	354
Roche Cobas Fara/Mira/Bio					
Roche COBAS	17	303.0	9.8	3.2	303
All Chemistry Reagents	24	332.3	52.8	15.9	307
Schiap./Alpha Wass. ACE/NexCT					
Schiapparelli/Alpha Wasserma	17	431.5	12.8	3.0	430
Technicon RA,XT,OPERA					
All Chemistry Reagents	5	379.8	13.8	3.6	380
VITROS 250,400,500,700,750,950					
VITROS	18	186.4	6.3	3.4	187
VITROS DT/DTII/DT60					
VITROS	27	189.4	8.6	4.5	189

Lactate Dehydrogenase (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 Methods	168	222.4	134.9	60.6	187	176	392.8	278.1	70.8	300
ATAC 8000										
Elan Diagnostics (Bio-Chem)	14	200.6	17.0	8.5	202	14	323.0	20.1	6.2	318
All Chemistry Reagents	15	198.1	19.1	9.6	201	15	319.3	24.2	7.6	318
Beckman Synchron										
Beckman	28	174.9	8.0	4.6	177	27	281.5	12.4	4.4	284
All Chemistry Reagents	31	175.1	7.9	4.5	177	31	282.1	14.3	5.1	284
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	33	190.8	8.1	4.2	191	32	301.9	10.6	3.5	303
Olympus AU										
Olympus	5	201.0	8.6	4.3	199	5	322.6	11.0	3.4	327
Roche Cobas Fara/Mira/Bio										
DCL	5	144.8	5.5	3.8	142	5	238.6	13.4	5.6	238
Roche COBAS	22	180.3	10.6	5.9	180	22	288.8	16.0	5.5	289
All Chemistry Reagents	29	172.2	18.1	10.5	174	29	277.3	26.7	9.6	283
Roche Integra										
Roche COBAS	6	220.7	7.6	3.4	224	6	351.8	8.5	2.4	355
Schiap./Alpha Wass. ACE/NexCT										
Schiapparelli/Alpha Wasserma	19	166.5	8.2	4.9	165	19	261.2	8.6	3.3	258
VITROS 250,400,500,700,750,950										
VITROS	19	713.9	19.6	2.7	712	20	1161.3	34.0	2.9	1156

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13					Specimen CH-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	164	608.8	346.6	56.9	531	174	171.7	119.4	69.5	133
ATAC 8000										
Elan Diagnostics (Bio-Chem)	14	582.9	36.3	6.2	582	14	142.9	10.3	7.2	142
All Chemistry Reagents	15	576.6	42.7	7.4	579	15	141.0	12.4	8.8	140
Beckman Synchron										
Beckman	28	508.1	24.6	4.8	509	28	123.5	6.2	5.0	125
All Chemistry Reagents	32	506.6	27.3	5.4	509	31	123.7	6.1	4.9	125
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	33	540.9	26.7	4.9	536	32	135.4	6.1	4.5	136
Olympus AU										
Olympus	5	597.6	21.5	3.6	591	5	140.0	6.0	4.3	140
Roche Cobas Fara/Mira/Bio										
DCL	5	425.8	26.4	6.2	419	5	105.2	8.2	7.8	101
Roche COBAS	22	522.6	21.3	4.1	523	23	129.6	11.1	8.5	129
All Chemistry Reagents	29	501.9	45.8	9.1	515	29	125.3	13.9	11.1	128
Roche Integra										
Roche COBAS	6	629.0	16.5	2.6	635	6	157.0	4.1	2.6	159
Schiap./Alpha Wass. ACE/NexCT										
Schiapparelli/Alpha Wasserma	19	469.4	16.6	3.5	466	19	121.1	6.0	5.0	121
VITROS 250,400,500,700,750,950										
VITROS	19	2221.7	114.6	5.2	2202	20	521.7	17.7	3.4	522

Specimen CH-15

All Methods	164	578.1	343.1	59.3	504
ATAC 8000					
Elan Diagnostics (Bio-Chem)	14	549.2	32.6	5.9	547
All Chemistry Reagents	15	544.7	36.0	6.6	545
Beckman Synchron					
Beckman	28	478.2	21.0	4.4	482
All Chemistry Reagents	32	476.8	23.5	4.9	482
Dade Dimension/AR/ES/RxL/Xpand					
Dade / Dupont	33	510.2	19.0	3.7	509
Olympus AU					
Olympus	5	554.8	22.4	4.0	547
Roche Cobas Fara/Mira/Bio					
DCL	5	402.2	23.2	5.8	392
Roche COBAS	22	496.3	21.9	4.4	497
All Chemistry Reagents	29	475.7	46.9	9.9	493
Roche Integra					
Roche COBAS	6	595.3	12.3	2.1	598
Schiap./Alpha Wass. ACE/NexCT					
Schiapparelli/Alpha Wasserma	19	443.0	15.8	3.6	441
VITROS 250,400,500,700,750,950					
VITROS	19	2125.6	68.3	3.2	2110

Lipase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11					Specimen CH-12				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	31	549.0	439.2	80.0	409	31	429.0	332.0	77.4	329
Dade Dimension/AR/ES/RxL/Xpand										
Dade / Dupont	16	410.9	24.4	5.9	407	16	331.3	20.0	6.0	328
VITROS 250,400,500,700,750,950										
VITROS	7	1217.6	29.9	2.5	1220	7	922.9	37.1	4.0	922

Cortisol (mcg/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 Methods	13	21.44	2.15	10.0	22.0	13	18.88	1.79	9.5	18.6
	<u>Specimen CH-13</u>					<u>Specimen CH-14</u>				
All Methods	13	18.62	1.66	8.9	18.3	13	11.53	1.46	12.6	11.4
	<u>Specimen CH-15</u>									
All Methods	13	13.59	1.34	9.9	13.2					

T₃ Uptake (percent)

<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	101	43.06	3.76	8.7	43.8	101	44.25	3.81	8.6	44.6
Abbott AxSYM	7	43.43	2.70	6.2	43.4	7	45.93	2.71	5.9	46.0
Abbott IMx	21	44.52	2.17	4.9	44.4	21	46.98	2.41	5.1	46.5
All Abbott Analyzers	28	44.25	2.31	5.2	44.2	28	46.71	2.48	5.3	46.5
BDI Opus/Plus/Magnum	9	36.42	2.79	7.7	36.0	9	39.49	2.30	5.8	39.7
Beckman (Sanofi) ACCESS	11	45.83	2.41	5.3	45.2	11	47.44	3.24	6.8	47.7
Dade Dimension/AR/ES/RxL/Xpand	19	42.46	1.21	2.8	42.0	19	41.76	0.86	2.1	42.0
DPC Coat-a-Count	6	36.60	1.92	5.2	37.3	6	37.18	1.44	3.9	37.8
TOSOH AIA	11	43.89	1.28	2.9	43.9	11	44.27	1.01	2.3	44.0
	<u>Specimen CH-13</u>					<u>Specimen CH-14</u>				
All Methods	101	44.43	3.91	8.8	44.5	100	48.07	5.62	11.7	48.0
Abbott AxSYM	7	45.80	2.15	4.7	45.6	7	52.59	1.97	3.8	53.2
Abbott IMx	20	47.43	1.77	3.7	47.4	21	55.08	2.61	4.8	54.5
All Abbott Analyzers	27	47.00	1.97	4.2	47.4	27	54.14	2.14	4.0	54.0
BDI Opus/Plus/Magnum	9	40.94	2.32	5.7	40.3	9	43.50	4.50	10.4	43.0
Beckman (Sanofi) ACCESS	11	46.82	2.83	6.1	47.4	11	49.94	2.62	5.2	50.6
Dade Dimension/AR/ES/RxL/Xpand	19	41.34	0.99	2.4	41.0	18	41.17	0.99	2.4	41.0
DPC Coat-a-Count	6	37.07	1.49	4.0	37.6	6	41.87	1.09	2.6	41.5
TOSOH AIA	11	43.88	1.00	2.3	43.6	11	46.55	1.22	2.6	46.4
	<u>Specimen CH-15</u>									
All Methods	98	47.23	5.27	11.2	47.0					
Abbott AxSYM	7	51.77	3.35	6.5	51.4					
Abbott IMx	21	53.20	2.65	5.0	52.8					
All Abbott Analyzers	28	52.84	2.84	5.4	52.6					
BDI Opus/Plus/Magnum	9	43.98	4.50	10.2	42.7					
Beckman (Sanofi) ACCESS	11	48.49	2.89	6.0	48.1					
Dade Dimension/AR/ES/RxL/Xpand	17	41.06	0.83	2.0	41.0					
DPC Coat-a-Count	6	41.07	0.36	0.9	41.0					
TOSOH AIA	11	45.54	1.21	2.7	45.0					

T Uptake (uptake units)

<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	58	0.595	0.040	6.8	0.60	58	0.546	0.044	8.0	0.54
Abbott AxSYM	9	0.602	0.035	5.9	0.61	9	0.534	0.034	6.3	0.53
Abbott IMx	45	0.596	0.040	6.7	0.60	45	0.540	0.038	6.9	0.54
	<u>Specimen CH-13</u>					<u>Specimen CH-14</u>				
All Methods	55	0.536	0.039	7.2	0.53	54	0.387	0.032	8.3	0.39
Abbott AxSYM	9	0.542	0.024	4.5	0.54	9	0.391	0.027	6.9	0.39
Abbott IMx	44	0.530	0.034	6.4	0.53	45	0.386	0.033	8.6	0.39
	<u>Specimen CH-15</u>									
All Methods	54	0.420	0.033	7.8	0.42					
Abbott AxSYM	9	0.423	0.022	5.3	0.43					
Abbott IMx	45	0.419	0.034	8.2	0.42					

Triiodothyronine (ng/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	58	3.58	0.75	20.8	3.5	67	3.66	1.56	42.6	3.1
Abbott AxSYM	5	2.66	0.23	8.7	2.6	5	2.40	0.33	13.8	2.3
Abbott IMx	22	3.08	0.19	6.1	3.1	22	2.65	0.17	6.4	2.7
All Abbott Analyzers	27	3.00	0.25	8.4	3.1	27	2.60	0.22	8.5	2.6
Beckman (Sanofi) ACCESS	7	3.54	0.37	10.5	3.6	7	2.99	0.31	10.3	3.1
bioMerieux Vitek, Mini Vidas	5	4.60	0.81	17.6	4.2	5	4.46	1.11	24.9	3.9
DPC Coat-a-Count	5	3.56	0.05	1.5	3.6	5	3.08	0.04	1.5	3.1
DPC Immulite	7	4.79	0.29	6.0	4.8	7	3.99	0.28	7.0	4.0
TOSOH AIA	6	8.87	1.59	17.9	8.0	10	7.44	1.14	15.3	7.1
	<u>Specimen CH-13</u>					<u>Specimen CH-14</u>				
All Methods	66	3.31	1.39	42.0	2.9	68	2.00	0.81	40.8	1.6
Abbott AxSYM	5	2.18	0.26	11.9	2.1	5	1.34	0.24	18.0	1.4
Abbott IMx	22	2.39	0.14	5.8	2.4	22	1.41	0.10	7.3	1.4
All Abbott Analyzers	27	2.35	0.18	7.7	2.3	27	1.40	0.14	9.7	1.4
Beckman (Sanofi) ACCESS	7	2.73	0.30	11.1	2.8	7	1.74	0.21	11.9	1.8
bioMerieux Vitek, Mini Vidas	5	3.96	0.92	23.2	3.6	5	2.62	0.62	23.7	2.3
DPC Coat-a-Count	5	2.94	0.05	1.9	2.9	5	1.54	0.05	3.6	1.5
DPC Immulite	6	3.50	0.37	10.5	3.5	7	2.20	0.16	7.4	2.2
TOSOH AIA	10	6.67	1.11	16.6	6.4	10	3.88	0.67	17.2	3.7
	<u>Specimen CH-15</u>									
All Methods	67	2.19	0.89	40.6	1.9					
Abbott AxSYM	5	1.50	0.19	12.5	1.4					
Abbott IMx	22	1.55	0.14	9.1	1.5					
All Abbott Analyzers	27	1.54	0.15	9.6	1.5					
Beckman (Sanofi) ACCESS	7	1.84	0.21	11.2	1.9					
bioMerieux Vitek, Mini Vidas	5	2.78	0.56	20.3	2.6					
DPC Coat-a-Count	5	1.94	0.05	2.8	1.9					
DPC Immulite	6	2.25	0.25	11.2	2.2					

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 Methods	21	15.33	5.85	38.1	16.1	21	13.03	4.97	38.1	14.4
Abbott AxSYM	5	17.40	2.95	16.9	18.5	5	16.02	2.36	14.7	16.3
DPC Immulite	6	9.18	0.76	8.3	9.3	6	7.43	0.48	6.4	7.5
TOSOH AIA	5	22.94	1.68	7.3	22.5	5	18.58	1.97	10.6	18.9

Thyroxine (mcg/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	174	12.20	1.19	9.8	12.2	174	10.49	1.12	10.6	10.4
Abbott AxSYM	15	12.17	0.53	4.4	12.3	15	10.46	0.58	5.6	10.4
Abbott IMx	64	11.82	0.78	6.6	11.8	64	10.14	0.75	7.4	10.1
BDI Opus/Plus/Magnum	10	22.69	3.13	13.8	22.1	10	19.17	2.59	13.5	19.5
Beckman (Sanofi) ACCESS	15	13.78	0.80	5.8	14.1	15	12.33	0.67	5.4	12.4
bioMerieux Vitek, Mini Vidas	5	10.10	0.54	5.3	10.0	5	9.82	0.81	8.3	10.0
Dade Dimension/AR/ES/RxL/Xpand	25	12.86	0.61	4.8	12.8	24	11.02	0.53	4.8	10.9
DPC Coat-a-Count	7	10.84	0.56	5.1	10.8	7	9.04	0.86	9.5	8.7
DPC Immulite	5	11.06	0.96	8.6	11.0	5	9.72	0.67	6.9	9.9
Roche Cedia	6	12.30	1.06	8.6	12.0	6	10.52	0.66	6.3	10.8
Roche Elecsys 1010/2010	6	10.05	1.39	13.8	10.3	6	8.55	1.18	13.8	8.7
Schiap./Alpha Wass. ACE/NexCT	5	13.54	0.75	5.5	13.0	5	11.34	0.67	5.9	11.0
TOSOH AIA	15	12.93	0.94	7.3	12.9	15	10.95	0.85	7.7	10.8

<u>Method</u>	Specimen CH-13					Specimen CH-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	172	9.77	0.97	10.0	9.7	174	6.43	0.93	14.4	6.3
Abbott AxSYM	15	9.65	0.45	4.6	9.5	15	6.21	0.43	6.9	6.2
Abbott IMx	62	9.49	0.52	5.5	9.4	64	6.22	0.60	9.7	6.1
BDI Opus/Plus/Magnum	10	17.90	2.13	11.9	18.4	10	11.68	1.41	12.1	11.9
Beckman (Sanofi) ACCESS	15	11.64	0.91	7.8	11.7	15	8.27	0.59	7.2	8.4
bioMerieux Vitek, Mini Vidas	5	9.44	0.44	4.7	9.4	5	7.06	0.68	9.7	6.9
Dade Dimension/AR/ES/RxL/Xpand	24	10.25	0.50	4.9	10.2	23	6.56	0.45	6.8	6.7
DPC Coat-a-Count	7	8.30	0.27	3.3	8.3	7	5.47	0.44	8.1	5.5
DPC Immulite	5	8.96	0.60	6.7	8.9	5	5.68	0.43	7.6	5.6
Roche Cedia	6	9.92	0.87	8.7	9.7	6	6.70	0.65	9.6	6.9
Roche Elecsys 1010/2010	6	8.03	1.10	13.7	8.2	6	5.03	0.70	13.9	5.1
Schiap./Alpha Wass. ACE/NexCT	5	10.66	0.49	4.6	10.6	5	6.74	0.70	10.4	6.6
TOSOH AIA	15	10.00	0.72	7.2	10.0	15	6.37	0.42	6.6	6.4

<u>Method</u>	Specimen CH-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	176	6.90	0.89	12.9	6.8
Abbott AxSYM	15	6.66	0.33	5.0	6.7
Abbott IMx	63	6.72	0.58	8.7	6.6
BDI Opus/Plus/Magnum	10	12.64	1.78	14.1	12.9
Beckman (Sanofi) ACCESS	15	8.63	0.44	5.1	8.7
bioMerieux Vitek, Mini Vidas	5	7.34	0.52	7.1	7.3
Dade Dimension/AR/ES/RxL/Xpand	24	6.98	0.33	4.8	7.0
DPC Coat-a-Count	7	5.86	0.24	4.1	5.8
DPC Immulite	5	6.20	0.45	7.3	6.2
Roche Cedia	6	7.43	0.44	5.9	7.5
Roche Elecsys 1010/2010	6	5.40	0.70	12.9	5.5
Schiap./Alpha Wass. ACE/NexCT	5	7.26	0.83	11.4	7.0
TOSOH AIA	15	6.91	0.50	7.3	7.0

Free Thyroxine (ng/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 Methods	219	2.72	0.92	33.9	2.3	218	2.40	0.85	35.4	2.0
Abbott AxSYM	25	2.08	0.17	8.2	2.1	25	1.81	0.15	8.4	1.8
Abbott IMx	67	2.10	0.17	7.9	2.1	67	1.80	0.13	7.4	1.8
All Abbott Analyzers	92	2.09	0.17	7.9	2.1	92	1.80	0.14	7.6	1.8
Beckman (Sanofi) ACCESS	26	2.83	0.15	5.5	2.9	26	2.65	0.14	5.5	2.7
bioMerieux Vitek, Mini Vidas	22	2.14	0.33	15.3	2.1	22	1.84	0.23	12.4	1.8
Dade Dimension/AR/ES/RxL/Xpand	21	4.26	0.38	9.0	4.3	21	4.02	0.35	8.8	4.1
DPC Immulite	16	2.33	0.21	9.1	2.4	17	2.04	0.12	5.8	2.0
TOSOH AIA	24	4.10	0.21	5.0	4.2	24	3.73	0.20	5.3	3.7

<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	217	2.24	0.87	39.0	1.8	217	1.66	0.57	34.2	1.4
Abbott AxSYM	25	1.54	0.10	6.5	1.5	25	1.38	0.11	8.0	1.4
Abbott IMx	65	1.59	0.09	5.9	1.6	66	1.33	0.10	7.3	1.3
All Abbott Analyzers	90	1.58	0.10	6.2	1.6	91	1.34	0.10	7.7	1.3
Beckman (Sanofi) ACCESS	26	2.58	0.14	5.5	2.6	26	1.90	0.12	6.4	1.9
bioMerieux Vitek, Mini Vidas	22	1.68	0.19	11.2	1.7	22	1.18	0.15	13.1	1.1
Dade Dimension/AR/ES/RxL/Xpand	21	3.92	0.36	9.1	3.8	21	2.81	0.31	11.0	2.8
DPC Immulite	16	1.97	0.11	5.5	2.0	17	1.21	0.11	9.5	1.2
TOSOH AIA	24	3.50	0.18	5.1	3.5	24	2.51	0.14	5.7	2.5

<u>Method</u>	<u>Specimen CH-15</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	215	1.70	0.69	40.6	1.3
Abbott AxSYM	25	1.25	0.10	7.7	1.2
Abbott IMx	66	1.23	0.09	7.7	1.2
All Abbott Analyzers	91	1.23	0.09	7.7	1.2
Beckman (Sanofi) ACCESS	26	2.04	0.10	5.0	2.0
bioMerieux Vitek, Mini Vidas	22	1.23	0.16	13.1	1.2
Dade Dimension/AR/ES/RxL/Xpand	21	3.24	0.34	10.5	3.2
DPC Immulite	16	1.30	0.18	14.0	1.3
TOSOH AIA	24	2.63	0.20	7.5	2.6

TSH (μU/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	448	7.17	0.93	12.9	7.2	449	5.54	0.70	12.7	5.6
Abbott AxSYM	39	7.53	0.94	12.4	7.3	39	5.80	0.62	10.7	5.7
Abbott IMx	179	7.28	0.46	6.4	7.3	179	5.60	0.34	6.1	5.6
All Abbott Analyzers	214	7.28	0.50	6.9	7.3	214	5.61	0.36	6.4	5.6
BDI Opus/Plus/Magnum	15	5.71	0.91	15.9	5.6	15	4.73	0.64	13.6	4.9
Beckman (Sanofi) ACCESS	38	5.72	0.36	6.3	5.7	37	4.31	0.28	6.4	4.3
bioMerieux Vitek, Mini Vidas	41	6.42	0.47	7.3	6.4	41	4.90	0.33	6.8	4.9
Dade Dimension/AR/ES/RxL/Xpand	42	7.77	0.66	8.5	7.7	42	5.95	0.52	8.8	5.9
DPC Coat-a-Count	11	7.31	0.41	5.7	7.5	11	5.80	0.36	6.1	6.0
DPC Immulite	18	8.07	0.62	7.7	8.1	18	6.10	0.38	6.2	6.2
Roche Elecsys 1010/2010	10	6.80	0.30	4.4	6.8	10	5.37	0.24	4.5	5.4
TOSOH AIA	43	8.27	0.48	5.8	8.3	43	6.39	0.37	5.7	6.4

TSH (μU/mL)

Specimen CH-13

Specimen CH-14

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	446	4.44	0.56	12.6	4.5	446	2.72	0.34	12.5	2.7
Abbott AxSYM	37	4.56	0.41	9.0	4.6	39	2.78	0.33	11.8	2.8
Abbott IMx	178	4.49	0.28	6.3	4.5	177	2.73	0.17	6.2	2.7
All Abbott Analyzers	214	4.50	0.30	6.7	4.5	213	2.74	0.18	6.7	2.7
BDI Opus/Plus/Magnum	15	4.05	0.47	11.6	4.1	15	2.49	0.36	14.4	2.5
Beckman (Sanofi) ACCESS	38	3.44	0.23	6.6	3.4	38	2.13	0.16	7.7	2.1
bioMerieux Vitek, Mini Vidas	41	3.88	0.26	6.6	3.9	41	2.44	0.14	5.9	2.4
Dade Dimension/AR/ES/RxL/Xpand	43	4.73	0.40	8.4	4.7	43	2.86	0.22	7.6	2.9
DPC Coat-a-Count	11	4.85	0.30	6.1	5.0	11	2.79	0.27	9.8	2.9
DPC Immulite	18	4.74	0.48	10.2	4.8	19	3.02	0.34	11.3	3.1
Roche Elecsys 1010/2010	10	4.32	0.14	3.2	4.4	10	2.93	0.08	2.8	3.0
TOSOH AIA	43	5.17	0.30	5.8	5.2	43	3.21	0.19	5.9	3.2

Specimen CH-15

All Methods	449	2.18	0.28	12.9	2.2
Abbott AxSYM	39	2.21	0.27	12.1	2.2
Abbott IMx	176	2.17	0.13	5.9	2.2
All Abbott Analyzers	213	2.18	0.15	6.8	2.2
BDI Opus/Plus/Magnum	15	2.03	0.33	16.4	1.9
Beckman (Sanofi) ACCESS	38	1.73	0.13	7.7	1.7
bioMerieux Vitek, Mini Vidas	40	1.94	0.13	6.5	1.9
Dade Dimension/AR/ES/RxL/Xpand	43	2.30	0.18	7.7	2.3
DPC Coat-a-Count	11	2.36	0.21	8.9	2.4
DPC Immulite	17	2.34	0.16	6.9	2.4
Roche Elecsys 1010/2010	10	2.30	0.07	2.9	2.3
TOSOH AIA	43	2.59	0.16	6.4	2.6

Fructosamine (mmol/L)

Specimen FR-3

Specimen FR-4

<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	9	4.589	1.964	42.8	4.91	9	1.474	0.694	47.0	1.64

Fructosamine (μmol/L)

Specimen FR-3

Specimen FR-4

<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	17	1411.1	375.0	26.6	1252	21	441.8	84.6	19.2	401
Polymedco	6	1879.5	80.7	4.3	1886	6	566.8	33.8	6.0	573
Roche Cobas Mira Fructosamine	7	1170.3	130.7	11.2	1216	11	387.7	21.4	5.5	396

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 Methods	575	207.6	9.6	4.6	208	572	196.9	8.7	4.4	197
Abaxis Piccolo										
Abaxis Piccolo	5	227.2	4.3	1.9	228	5	215.8	2.9	1.3	216
Abbott Aeroset										
Abbott Aeroset	10	206.3	9.9	4.8	209	10	199.2	2.4	1.2	200
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	8	210.6	6.7	3.2	211	8	199.3	7.5	3.7	198
Beckman										
Beckman Synchron	44	206.8	4.2	2.0	207	43	195.0	3.8	1.9	195
BMC										
BMC Reflotron/Plus	6	204.2	4.6	2.3	204	6	195.0	2.5	1.3	195
Cholestech LDX										
Cholestech LDX	44	206.6	8.3	4.0	208	44	193.2	8.8	4.5	193
All Chemistry Instruments	45	207.0	8.7	4.2	208	45	193.8	9.4	4.9	194
Dade / Dupont										
Dade Analyst	11	218.4	5.4	2.5	218	10	203.7	4.4	2.2	205
Dade Dimension/AR/ES/RxL/Xpa	59	196.4	4.2	2.2	197	59	186.6	3.8	2.0	186
All Chemistry Instruments	71	198.8	9.0	4.5	197	71	188.6	7.6	4.1	187
DCL										
Roche Cobas Fara/Mira/Bio	10	201.1	6.7	3.3	203	10	190.0	8.8	4.6	192
Technicon RA,XT,OPERA	5	208.4	5.1	2.5	211	5	197.8	3.6	1.8	200
All Chemistry Instruments	18	206.1	9.6	4.7	206	18	196.7	12.0	6.1	196
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	9	207.7	5.7	2.8	207	9	196.9	5.6	2.9	196
ATAC 8000	56	205.1	11.4	5.6	205	55	195.5	10.1	5.2	195
All Chemistry Instruments	65	205.5	10.8	5.2	205	64	195.7	9.6	4.9	196
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	202.6	5.9	2.9	203	5	194.6	6.2	3.2	194
Olympus										
Olympus AU	7	194.9	5.1	2.6	196	7	186.4	4.7	2.5	188
Pointe Scientific/Landmark										
All Chemistry Instruments	13	207.2	18.5	8.9	210	11	195.8	9.3	4.8	197
Roche COBAS										
Roche Cobas Fara/Mira/Bio	75	212.7	10.1	4.8	210	76	202.1	9.5	4.7	201
Roche Integra	12	202.8	3.7	1.8	203	12	193.1	3.4	1.8	194
All Chemistry Instruments	87	211.3	10.1	4.8	209	87	200.5	8.9	4.5	199
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	64	207.3	5.7	2.7	207	64	197.0	5.7	2.9	198
Thermo Infinity										
All Chemistry Instruments	6	214.2	8.4	3.9	216	6	203.8	2.7	1.3	204
ThermoDMA										
Roche Cobas Fara/Mira/Bio	9	210.9	15.8	7.5	209	9	205.0	7.1	3.5	204
All Chemistry Instruments	15	213.6	12.9	6.1	214	15	206.2	6.0	2.9	206
VITROS										
VITROS 250,400,500,700,750,9	51	212.9	5.9	2.8	212	51	199.3	5.4	2.7	200
VITROS DT/DTII/DT60	33	211.5	6.1	2.9	212	33	200.0	6.4	3.2	200
All Chemistry Instruments	84	212.3	6.0	2.8	212	84	199.6	5.8	2.9	200

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 Methods	570	205.8	8.7	4.2	205	569	148.3	7.1	4.8	148
Abaxis Piccolo										
Abaxis Piccolo	5	217.6	3.0	1.4	218	5	169.4	4.3	2.6	170
Abbott Aeroset										
Abbott Aeroset	10	209.4	3.0	1.4	210	10	149.3	2.4	1.6	149
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	8	207.1	10.9	5.3	206	8	148.9	6.2	4.2	148
Beckman										
Beckman Synchron	45	202.5	4.8	2.4	203	45	148.7	4.6	3.1	149
BMC										
BMC Reflotron/Plus	6	199.7	4.5	2.2	201	6	145.5	1.6	1.1	145
Cholestech LDX										
Cholestech LDX	44	201.5	8.3	4.1	201	43	142.9	6.4	4.5	143
All Chemistry Instruments	45	201.9	8.6	4.3	201	44	143.3	6.8	4.7	143
Dade / Dupont										
Dade Analyst	11	213.1	5.4	2.5	212	11	150.9	3.4	2.3	152
Dade Dimension/AR/ES/RxL/Xpa	60	197.1	4.2	2.2	197	60	139.8	3.2	2.3	140
All Chemistry Instruments	72	199.3	7.5	3.8	198	72	141.3	5.4	3.8	141
DCL										
Roche Cobas Fara/Mira/Bio	10	204.1	7.6	3.7	203	10	142.8	5.8	4.1	143
Technicon RA,XT,OPERA	5	209.2	1.6	0.8	210	5	151.0	1.6	1.0	151
All Chemistry Instruments	18	207.6	7.7	3.7	208	18	147.7	8.1	5.5	149
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	9	208.0	6.4	3.1	205	9	146.7	5.5	3.8	145
ATAC 8000	54	202.7	9.8	4.8	202	53	151.5	6.9	4.5	151
All Chemistry Instruments	63	203.4	9.5	4.7	203	62	150.8	6.9	4.6	151
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	207.8	8.5	4.1	209	5	147.4	6.4	4.3	148
Olympus										
Olympus AU	7	196.0	4.7	2.4	197	7	139.6	3.6	2.5	141
Pointe Scientific/Landmark										
All Chemistry Instruments	13	204.5	15.0	7.4	205	12	149.7	3.6	2.4	150
Roche COBAS										
Roche Cobas Fara/Mira/Bio	76	211.7	10.6	5.0	210	75	154.5	7.2	4.7	153
Roche Integra	12	202.7	4.6	2.2	203	12	145.2	2.6	1.8	146
All Chemistry Instruments	88	210.5	10.4	5.0	209	87	153.2	7.5	4.9	151
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	62	206.6	5.3	2.6	207	64	149.0	4.6	3.1	149
Thermo Infinity										
All Chemistry Instruments	6	209.8	13.7	6.5	212	6	152.5	6.0	3.9	154
ThermoDMA										
Roche Cobas Fara/Mira/Bio	9	212.9	10.8	5.1	211	9	153.8	11.0	7.2	154
All Chemistry Instruments	15	214.7	9.5	4.4	217	15	154.7	8.5	5.5	155
VITROS										
VITROS 250,400,500,700,750,9	51	209.6	5.7	2.7	210	51	146.4	4.4	3.0	146
VITROS DT/DTII/DT60	33	207.2	7.8	3.8	208	33	150.2	5.5	3.6	150
All Chemistry Instruments	83	208.9	6.3	3.0	209	84	147.9	5.2	3.5	148

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 Methods	565	175.7	7.5	4.3	175
Abaxis Piccolo					
Abaxis Piccolo	5	192.0	1.0	0.5	192
Abbott Aeroset					
Abbott Aeroset	10	178.5	2.4	1.4	178
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	8	182.0	11.6	6.4	181
Beckman					
Beckman Synchron	44	173.6	3.9	2.3	174
BMC					
BMC Reflotron/Plus	6	163.8	4.4	2.7	164
Cholestech LDX					
Cholestech LDX	42	168.7	7.2	4.3	168
All Chemistry Instruments	44	169.7	8.6	5.1	168
Dade / Dupont					
Dade Analyst	11	180.9	3.9	2.1	181
Dade Dimension/AR/ES/RxL/Xpa	61	168.8	3.9	2.3	169
All Chemistry Instruments	72	170.7	5.8	3.4	170
DCL					
Roche Cobas Fara/Mira/Bio	10	174.0	5.1	2.9	176
Technicon RA,XT,OPERA	5	178.2	3.1	1.7	177
All Chemistry Instruments	17	176.2	5.1	2.9	177
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	7	176.9	7.7	4.4	174
ATAC 8000	54	177.3	7.4	4.2	177
All Chemistry Instruments	61	177.2	7.4	4.2	176
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	5	176.0	6.6	3.7	177
Olympus					
Olympus AU	7	166.6	3.9	2.3	168
Pointe Scientific/Landmark					
All Chemistry Instruments	13	182.5	13.0	7.1	179
Roche COBAS					
Roche Cobas Fara/Mira/Bio	75	180.1	8.9	5.0	180
Roche Integra	12	172.8	3.1	1.8	174
All Chemistry Instruments	87	179.1	8.7	4.9	178
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	64	177.3	5.2	3.0	178
Thermo Infinity					
All Chemistry Instruments	6	184.2	6.8	3.7	183
ThermoDMA					
Roche Cobas Fara/Mira/Bio	8	181.9	7.3	4.0	183
All Chemistry Instruments	14	184.6	6.5	3.5	185
VITROS					
VITROS 250,400,500,700,750,9	51	173.6	4.9	2.8	173
VITROS DT/DTII/DT60	33	176.2	4.8	2.7	176
All Chemistry Instruments	84	174.6	5.0	2.9	175

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 Methods	476	113.4	24.1	21.2	117	479	107.3	23.2	21.6	112
Alpha Wass. ACE HDL-C / LDL-C	17	100.2	25.8	25.7	92	17	92.9	23.4	25.2	80
Beckman Coulter LDLD	13	67.7	3.1	4.6	68	13	62.4	2.9	4.6	63
Calculated-Trig/5	259	125.9	15.7	12.5	129	260	119.5	14.4	12.0	121
Dade Automated LDL (ALDL)	27	92.6	9.4	10.1	91	27	86.9	9.0	10.4	86
DCL Liquid Direct LDL	5	80.6	5.0	6.2	82	5	72.2	6.4	8.8	75
Elan Diagnostics Direct	13	72.9	15.6	21.5	73	12	66.3	8.5	12.8	68
EQual Direct (HDL and LDL)	18	82.4	5.8	7.1	82	17	75.9	5.0	6.7	75
N-geneous LDL	5	83.0	9.8	11.8	80	5	76.6	10.1	13.1	76
Polymedco	6	108.5	21.2	19.6	109	6	101.5	21.2	20.9	103
Polymedco Direct LDL	39	106.4	17.3	16.2	103	39	99.4	16.5	16.6	98
Roche COBAS	10	102.4	19.6	19.1	104	12	103.7	23.2	22.4	110
ThermoDMA Direct LDL	5	75.8	11.1	14.7	79	5	69.8	9.3	13.3	73
All Direct LDL Methods	157	93.0	20.3	21.8	90	159	88.2	21.0	23.8	83

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 Phosphotungstic Acid Metho	65	51.6	18.9	36.5	47	66	50.3	18.0	35.8	45
All Dex-Sulfate 50,000 MW Meth	147	48.4	8.1	16.7	47	150	46.3	8.6	18.6	45
All Direct Methods	280	46.0	8.4	18.4	46	279	45.4	8.0	17.6	45
All Methods	506	46.5	8.4	18.2	46	510	45.4	8.4	18.5	45
Abaxis Piccolo										
Abaxis Piccolo	5	49.0	5.1	10.4	52	5	49.0	8.6	17.6	47
Alpha Wass. ACE HDL-C / LDL-C										
Schiap./Alpha Wass. ACE/NexC	32	45.3	2.5	5.6	45	31	45.3	2.5	5.5	46
Beckman HDLD										
Beckman Synchron	26	54.2	4.1	7.5	54	26	54.7	4.3	7.8	54
Beckman										
Beckman Synchron	12	53.8	3.3	6.2	54	12	53.3	3.8	7.1	54
Cholestech LDX										
Cholestech LDX	40	57.3	13.7	23.9	55	39	53.4	11.9	22.3	52
Dade / Dupont										
Dade Dimension/AR/ES/RxL/Xpa	21	48.0	5.5	11.4	49	21	45.9	4.8	10.4	47
All Chemistry Instruments	-	-	-	-	-	22	46.4	5.2	11.2	47
Dade Automated HDL										
Dade Dimension/AR/ES/RxL/Xpa	30	51.6	2.3	4.5	52	31	49.4	2.7	5.5	50
DCL Direct HDL										
Roche Cobas Fara/Mira/Bio	7	41.4	3.4	8.1	43	7	41.7	3.3	7.9	42
All Chemistry Instruments	10	43.6	4.5	10.3	43	10	44.1	4.7	10.7	44
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	6	85.3	6.1	7.1	86	6	82.5	3.1	3.7	82
ATAC 8000	16	39.1	4.8	12.3	39	16	37.8	4.6	12.3	37
All Chemistry Instruments	23	53.7	23.3	43.3	42	23	52.2	22.8	43.8	40
Elan Diagnostics Direct										
ATAC 8000	23	38.3	4.5	11.8	38	23	37.0	4.7	12.7	35
All Chemistry Instruments	24	38.4	4.4	11.5	38	24	37.0	4.6	12.5	36
EQual Direct (HDL and LDL)										
Abbott Aeroset	5	36.4	0.5	1.5	36	5	37.0	0.7	1.9	37
All Chemistry Instruments	13	44.1	13.0	29.5	37	13	43.5	10.1	23.1	38
EQual HDL Ultra (direct)										
Roche Cobas Fara/Mira/Bio	9	54.7	4.4	8.1	55	9	51.6	3.4	6.7	52
All Chemistry Instruments	16	53.4	5.0	9.3	54	16	51.2	3.9	7.6	52
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	6	54.7	7.1	13.0	56	6	55.0	7.8	14.1	56
All Chemistry Instruments	7	58.7	12.5	21.3	57	7	57.6	9.8	17.1	57

Cholesterol, HDL (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>
Liquid N-geneous Direct HDL										
Roche Cobas Fara/Mira/Bio	5	48.6	10.6	21.8	46	5	46.6	8.5	18.2	46
Pointe Scientific - PEG										
All Chemistry Instruments	6	41.0	10.6	25.8	45	6	40.8	8.6	21.1	42
Polymedco Direct HDL										
ATAC 8000	10	40.9	4.4	10.7	42	10	38.6	6.8	17.5	40
Roche Cobas Fara/Mira/Bio	7	40.3	2.4	6.0	40	7	39.0	2.1	5.3	39
All Chemistry Instruments	31	43.0	6.4	15.0	42	31	41.5	7.3	17.7	40
Polymedco										
Roche Cobas Fara/Mira/Bio	6	41.2	3.1	7.4	41	6	42.7	4.4	10.2	44
VITROS 250,400,500,700,750,9	7	37.6	4.9	13.0	39	7	35.7	5.3	14.7	36
All Chemistry Instruments	17	40.6	5.5	13.7	41	17	40.2	6.6	16.4	41
Roche COBAS										
Roche Cobas Fara/Mira/Bio	13	42.5	4.0	9.4	42	13	42.0	3.5	8.3	42
All Chemistry Instruments	14	41.7	4.9	11.8	42	14	41.4	4.0	9.6	42
Roche HDL Direct										
Roche Cobas Fara/Mira/Bio	28	41.2	2.7	6.6	41	29	40.6	3.6	8.9	41
Roche Integra	8	29.9	3.0	10.2	31	8	33.6	3.7	11.1	34
All Chemistry Instruments	38	38.2	5.7	15.0	41	38	38.8	4.8	12.3	39
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	21	45.1	2.4	5.3	45	21	45.3	2.3	5.0	45
ThermoDMA Auto-Direct HDL-C +										
All Chemistry Instruments	7	43.0	4.8	11.1	42	7	43.0	5.6	13.0	41
Trintiy Biotech (Sigma) EZ HDL										
All Chemistry Instruments	7	51.6	1.6	3.1	52	7	51.3	2.9	5.7	51
VITROS - Magnetic HDL										
VITROS 250,400,500,700,750,9	36	44.0	3.9	8.8	44	36	39.8	4.0	10.1	39
All Chemistry Instruments	37	44.1	3.9	8.8	44	37	39.8	4.0	10.0	39
VITROS										
VITROS DT/DTII/DT60	19	56.8	7.1	12.5	58	19	51.9	5.4	10.4	53
All Chemistry Instruments	23	54.4	8.8	16.2	57	23	49.7	7.4	15.0	51

Cholesterol, HDL (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 Phosphotungstic Acid Metho	66	53.8	19.0	35.3	48	64	39.0	11.7	30.1	35
All Dex-Sulfate 50,000 MW Meth	151	44.6	8.0	18.0	44	150	38.8	7.4	19.1	39
All Direct Methods	279	48.4	7.8	16.1	49	280	38.0	5.9	15.4	38
All Methods	510	46.8	8.0	17.1	47	507	37.7	6.2	16.3	37
Abaxis Piccolo										
Abaxis Piccolo	5	48.0	6.3	13.2	50	5	41.8	4.8	11.4	41
Alpha Wass. ACE HDL-C / LDL-C										
Schiap./Alpha Wass. ACE/NexC	32	48.4	2.5	5.2	49	30	39.0	1.3	3.3	39
Beckman HDLD										
Beckman Synchron	26	57.9	4.5	7.9	58	26	45.3	3.9	8.6	45
Beckman										
Beckman Synchron	12	57.7	3.4	5.9	58	12	45.3	5.1	11.2	44
Cholestech LDX										
Cholestech LDX	38	44.7	8.8	19.8	43	39	44.8	9.2	20.4	42
Dade / Dupont										
Dade Dimension/AR/ES/RxL/Xpa	21	48.3	4.5	9.3	49	21	34.5	2.5	7.4	35
All Chemistry Instruments	-	-	-	-	-	22	34.6	2.6	7.5	35
Dade Automated HDL										
Dade Dimension/AR/ES/RxL/Xpa	30	51.5	2.3	4.4	52	30	36.5	2.1	5.8	37
All Chemistry Instruments						32	37.0	2.7	7.3	37
DCL Direct HDL										
Roche Cobas Fara/Mira/Bio	7	44.9	3.0	6.7	45	7	33.7	3.0	8.9	34
All Chemistry Instruments	10	47.2	4.7	10.0	46	10	36.8	6.6	18.1	36
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	6	88.7	2.7	3.0	89	5	64.2	1.9	3.0	65
ATAC 8000	16	41.5	7.2	17.3	39	16	32.9	4.5	13.8	32
All Chemistry Instruments	23	56.6	24.3	42.9	44	22	42.1	16.0	38.1	36
Elan Diagnostics Direct										
ATAC 8000	23	40.3	4.1	10.3	39	23	32.2	4.1	12.6	32
All Chemistry Instruments	24	40.5	4.2	10.3	40	24	32.2	4.0	12.4	32
Equal Direct (HDL and LDL)										
Abbott Aeroset	5	39.8	1.3	3.3	40	5	31.8	1.1	3.4	32
All Chemistry Instruments	13	46.5	9.8	21.2	41	13	36.5	7.3	20.0	33
Equal HDL Ultra (direct)										
Roche Cobas Fara/Mira/Bio	9	55.4	5.7	10.4	53	9	42.7	4.5	10.5	42
All Chemistry Instruments	16	54.1	6.0	11.0	53	16	41.5	4.5	10.8	41
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	6	57.7	7.1	12.3	60	6	45.8	5.2	11.4	47
All Chemistry Instruments	7	60.9	10.6	17.5	61	7	48.4	8.4	17.3	49
Liquid N-geneous Direct HDL										
Roche Cobas Fara/Mira/Bio	5	49.2	8.6	17.5	50	5	37.8	7.6	20.2	34
Pointe Scientific autoHDL/ LDL										
All Chemistry Instruments	6	43.8	7.6	17.4	44	6	39.0	6.9	17.7	37
Polymedco Direct HDL										
ATAC 8000	10	42.9	3.6	8.3	42	10	32.9	4.0	12.3	33
Roche Cobas Fara/Mira/Bio	7	42.7	3.1	7.4	42	7	33.6	3.5	10.4	33
All Chemistry Instruments	30	45.7	5.8	12.7	45	31	35.1	5.5	15.7	34
Polymedco										
Roche Cobas Fara/Mira/Bio	6	45.5	4.6	10.2	47	6	35.2	4.4	12.6	35
VITROS 250,400,500,700,750,9	7	34.7	6.7	19.3	36	7	28.6	4.5	15.6	31
All Chemistry Instruments	17	41.1	9.1	22.2	42	17	33.6	6.3	18.6	34
Roche COBAS										
Roche Cobas Fara/Mira/Bio	13	45.2	4.9	10.9	45	13	34.6	2.7	7.9	35
All Chemistry Instruments	14	44.6	5.1	11.4	44	14	34.9	2.8	7.9	35

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>
Liquid N-geneous Direct HDL					
Roche Cobas Fara/Mira/Bio	5	44.0	8.9	20.2	43
Pointe Scientific autoHDL/ LDL					
All Chemistry Instruments	6	46.0	9.7	21.1	45
Polymedco Direct HDL					
ATAC 8000	10	39.8	4.6	11.7	40
Roche Cobas Fara/Mira/Bio	7	38.9	2.5	6.4	39
All Chemistry Instruments	31	41.7	7.2	17.2	41
Polymedco					
Roche Cobas Fara/Mira/Bio	6	41.0	3.7	9.1	42
VITROS 250,400,500,700,750,9	7	29.9	4.8	16.0	32
All Chemistry Instruments	17	37.8	8.4	22.2	40
Roche COBAS					
Roche Cobas Fara/Mira/Bio	13	40.8	3.2	7.8	41
All Chemistry Instruments	14	40.9	3.1	7.5	42
Roche HDL Direct					
Roche Cobas Fara/Mira/Bio	29	40.4	3.3	8.1	40
Roche Integra	8	41.1	3.6	8.7	42
All Chemistry Instruments	38	40.5	3.3	8.2	41
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	21	46.2	2.0	4.3	46
ThermoDMA Auto-Direct HDL-C +					
All Chemistry Instruments	7	42.1	6.6	15.7	42
Trintiy Biotech (Sigma) EZ HDL					
All Chemistry Instruments	7	51.6	1.6	3.1	51
VITROS - Magnetic HDL					
VITROS 250,400,500,700,750,9	36	33.0	4.0	12.0	33
All Chemistry Instruments	37	32.9	4.0	12.0	33
VITROS					
VITROS DT/DTII/DT60	19	42.6	6.4	15.1	43
All Chemistry Instruments	23	40.8	7.4	18.2	42

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 Methods	537	165.8	11.2	6.7	165	538	150.8	10.1	6.7	151
Abaxis Piccolo										
Abaxis Piccolo	5	171.8	3.3	1.9	171	5	154.4	1.5	1.0	154
Abbott Aeroset										
Abbott Aeroset	10	160.4	4.8	3.0	160	10	146.1	4.5	3.1	147
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	8	157.9	7.7	4.9	158	8	141.9	7.9	5.6	143
Beckman										
Beckman Synchron	42	165.4	8.2	5.0	166	41	150.2	7.9	5.3	148
Carolina Liquid Chemistries										
Beckman Synchron	5	175.8	5.8	3.3	176	5	159.6	2.4	1.5	161
Cholestech LDX										
Cholestech LDX	36	165.5	8.5	5.1	166	37	152.3	10.0	6.6	152
Dade / Dupont										
Dade Analyst	11	174.1	5.7	3.3	176	10	158.0	3.6	2.3	157
Dade Dimension/AR/ES/RxL/Xpa	55	168.4	4.0	2.4	168	55	152.5	4.0	2.6	152
All Chemistry Instruments	66	169.3	4.8	2.8	169	65	153.3	4.4	2.9	153

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	9	149.7	10.1	6.8	151	9	137.1	9.2	6.7	141
Technicon RA,XT,OPERA	6	161.5	4.5	2.8	160	6	147.5	3.7	2.5	147
All Chemistry Instruments	18	157.1	12.2	7.7	159	18	143.9	11.2	7.8	146
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	8	160.1	8.4	5.2	159	8	145.5	9.0	6.2	143
ATAC 8000	53	175.5	11.0	6.2	175	53	158.7	9.9	6.3	159
All Chemistry Instruments	61	173.5	11.8	6.8	173	61	157.0	10.7	6.8	158
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	161.4	8.8	5.5	160	5	151.6	8.9	5.9	157
All Chemistry Instruments										
Olympus										
Olympus AU	6	159.8	7.1	4.5	161	6	144.7	6.7	4.7	146
All Chemistry Instruments	7	159.9	6.5	4.1	160	7	144.0	6.4	4.4	145
Pointe Scientific/Landmark										
Roche COBAS	12	151.3	29.2	19.3	157	12	135.2	25.0	18.5	140
Roche COBAS										
Roche Cobas Fara/Mira/Bio	72	154.4	5.9	3.8	154	72	140.6	5.8	4.1	140
Roche Integra	12	165.2	3.6	2.2	165	12	150.7	4.3	2.9	150
All Chemistry Instruments	84	156.0	6.8	4.3	156	83	141.8	6.3	4.4	141
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	61	160.3	5.0	3.1	160	60	147.9	4.3	2.9	148
Thermo Infinity										
All Chemistry Instruments	5	158.8	8.7	5.5	153	5	143.4	7.0	4.9	142
ThermoDMA										
Roche Cobas Fara/Mira/Bio	7	157.6	7.9	5.0	161	8	147.9	7.7	5.2	148
All Chemistry Instruments	14	160.8	8.3	5.1	162	15	148.7	8.3	5.6	150
VITROS										
VITROS 250,400,500,700,750,9	50	179.4	6.4	3.6	180	50	160.3	5.7	3.5	160
VITROS DT/DTII/DT60	18	179.1	8.3	4.7	179	18	159.2	8.0	5.0	158
All Chemistry Instruments	67	179.0	6.4	3.6	179	68	160.0	6.3	4.0	160
Specimen CH-13										
All Methods	534	143.4	8.5	5.9	143	536	120.4	9.8	8.1	120
Abaxis Piccolo										
Abaxis Piccolo	5	142.4	1.7	1.2	142	5	125.4	1.8	1.4	125
Abbott Aeroset										
Abbott Aeroset	10	140.6	4.5	3.2	141	10	117.7	4.5	3.8	118
Bayer (Express / Plus)										
Chiron Diagnostics 550 Expre	8	138.9	6.9	5.0	139	8	109.0	4.3	4.0	109
Beckman										
Beckman Synchron	41	141.4	7.0	5.0	140	42	118.9	8.0	6.7	118
Carolina Liquid Chemistries										
Beckman Synchron	5	147.4	3.7	2.5	150	5	123.8	5.3	4.3	124
Cholestech LDX										
Cholestech LDX	37	146.9	10.4	7.1	145	37	120.1	7.3	6.0	120
Dade / Dupont										
Dade Analyst	11	150.5	4.5	3.0	151	11	127.5	3.2	2.5	127
Dade Dimension/AR/ES/RxL/Xpa	55	143.1	3.7	2.6	143	56	124.9	4.0	3.2	125
All Chemistry Instruments	66	144.4	4.7	3.3	144	67	125.3	4.0	3.2	125
Specimen CH-14										

Triglycerides (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>
DCL										
Roche Cobas Fara/Mira/Bio	9	138.7	9.6	7.0	143	9	108.1	8.7	8.1	112
Technicon RA,XT,OPERA	6	141.2	1.2	0.8	141	6	116.0	1.7	1.4	116
All Chemistry Instruments	18	141.1	8.0	5.7	142	18	113.0	9.2	8.1	115
Elan Diagnostics (Bio-Chem)										
ATAC 1500,2000,6000	8	143.6	8.0	5.6	145	8	112.1	12.6	11.3	111
ATAC 8000	52	149.4	9.3	6.3	150	52	135.6	10.2	7.5	136
All Chemistry Instruments	60	148.6	9.3	6.3	149	61	131.9	13.8	10.4	135
JAS Diagnostics, Inc.										
Roche Cobas Fara/Mira/Bio	5	146.2	9.9	6.8	150	5	111.8	8.1	7.2	108
Olympus										
Olympus AU	6	137.0	5.3	3.8	139	6	115.7	5.0	4.3	118
All Chemistry Instruments	7	136.3	5.2	3.8	138	7	115.7	4.5	3.9	117
Pointe Scientific/Landmark										
All Chemistry Instruments	11	136.2	8.9	6.5	138	12	104.7	21.3	20.3	110
Roche COBAS										
Roche Cobas Fara/Mira/Bio	72	134.9	5.4	4.0	134	70	112.0	4.7	4.2	111
Roche Integra	12	143.8	4.6	3.2	144	12	120.3	3.9	3.3	120
All Chemistry Instruments	84	136.1	6.1	4.5	135	82	113.2	5.4	4.8	112
Schiapparelli/Alpha Wassermann										
Schiap./Alpha Wass. ACE/NexC	61	143.9	3.9	2.7	144	61	117.5	3.3	2.8	118
Thermo Infinity										
All Chemistry Instruments	-	-	-	-	-	5	107.2	7.5	7.0	106
ThermoDMA										
Roche Cobas Fara/Mira/Bio	8	140.3	7.9	5.6	142	8	105.0	13.0	12.4	107
All Chemistry Instruments	15	141.7	8.3	5.9	143	15	108.2	10.7	9.9	112
VITROS										
VITROS 250,400,500,700,750,9	50	149.3	5.5	3.7	149	50	127.8	4.9	3.9	128
VITROS DT/DTII/DT60	18	148.2	6.7	4.5	148	18	125.4	6.7	5.3	124
All Chemistry Instruments	68	149.0	5.8	3.9	149	68	127.2	5.5	4.3	126

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	537	120.3	7.8	6.5	120
Abaxis Piccolo					
Abaxis Piccolo	5	121.6	3.0	2.4	123
Abbott Aeroset					
Abbott Aeroset	10	118.6	4.4	3.7	118
Bayer (Express / Plus)					
Chiron Diagnostics 550 Expre	8	115.4	6.8	5.9	116
Beckman					
Beckman Synchron	42	116.9	6.9	5.9	116
Carolina Liquid Chemistries					
Beckman Synchron	5	122.8	8.5	6.9	120
Cholestech LDX					
Cholestech LDX	37	124.6	7.5	6.0	123
Dade / Dupont					
Dade Analyst	11	126.7	4.1	3.3	128
Dade Dimension/AR/ES/RxL/Xpa	56	120.8	4.2	3.5	120
All Chemistry Instruments	67	121.7	4.7	3.9	121
DCL					
Roche Cobas Fara/Mira/Bio	9	116.3	9.3	8.0	120
Technicon RA,XT,OPERA	6	121.3	5.0	4.1	120
All Chemistry Instruments	18	120.2	9.3	7.8	120

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>
Elan Diagnostics (Bio-Chem)					
ATAC 1500,2000,6000	8	119.5	7.9	6.6	119
ATAC 8000	50	127.3	8.8	6.9	129
All Chemistry Instruments	58	126.2	9.0	7.1	128
JAS Diagnostics, Inc.					
Roche Cobas Fara/Mira/Bio	5	119.0	8.9	7.4	115
Olympus					
Olympus AU	6	115.2	5.8	5.1	117
All Chemistry Instruments	7	115.1	5.3	4.6	116
Pointe Scientific/Landmark					
All Chemistry Instruments	12	105.5	18.5	17.5	112
Roche COBAS					
Roche Cobas Fara/Mira/Bio	71	112.8	4.4	3.9	112
Roche Integra	12	120.8	2.9	2.4	121
All Chemistry Instruments	84	114.1	5.3	4.6	114
Schiapparelli/Alpha Wassermann					
Schiap./Alpha Wass. ACE/NexC	61	121.5	3.3	2.8	121
Thermo Infinity					
All Chemistry Instruments	5	116.6	7.7	6.6	114
ThermoDMA					
Roche Cobas Fara/Mira/Bio	8	115.4	8.3	7.2	116
All Chemistry Instruments	15	118.7	9.0	7.6	118
VITROS					
VITROS 250,400,500,700,750,9	51	124.0	5.2	4.2	124
VITROS DT/DTII/DT60	18	120.6	4.8	4.0	121
All Chemistry Instruments	69	123.1	5.3	4.3	123

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	8	84.66	2.71	3.2	84.5	8	61.13	2.71	4.4	60.7
Dade Dimension/AR/ES/RxL/Xpand	7	83.90	1.78	2.1	83.4	7	60.29	1.41	2.3	60.4

Specimen CH-13

Specimen CH-14

All Methods	8	39.50	2.60	6.6	39.5	8	31.38	1.74	5.5	31.1
Dade Dimension/AR/ES/RxL/Xpand	7	38.86	2.01	5.2	39.0	7	30.86	1.01	3.3	31.0

Specimen CH-15

All Methods	8	13.20	1.36	10.3	12.9
Dade Dimension/AR/ES/RxL/Xpand	7	13.23	1.46	11.1	12.8

Carbamazepine (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	21	6.44	0.58	9.0	6.5	21	8.46	0.74	8.8	8.6
Abbott AxSYM	5	6.64	0.29	4.3	6.5	5	8.72	0.37	4.2	8.7
Beckman Synchron	5	6.46	0.31	4.7	6.4	5	8.54	0.31	3.6	8.6
Dade Dimension/AR/ES/RxL/Xpand	8	6.73	0.29	4.3	6.8	8	8.84	0.34	3.8	8.9

<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	21	14.05	1.11	7.9	14.2	21	4.10	0.47	11.4	4.2
Abbott AxSYM	5	13.82	0.50	3.6	13.5	5	4.42	0.27	6.1	4.3
Beckman Synchron	5	14.30	0.44	3.1	14.1	5	4.04	0.17	4.1	4.0
Dade Dimension/AR/ES/RxL/Xpand	8	14.86	0.51	3.5	14.9	8	4.28	0.29	6.7	4.3

<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	21	12.57	1.05	8.4	12.8
Abbott AxSYM	5	12.60	0.40	3.2	12.5
Beckman Synchron	5	13.00	0.32	2.4	12.9
Dade Dimension/AR/ES/RxL/Xpand	8	13.11	0.49	3.8	13.1

Digoxin (ng/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	124	1.94	0.19	10.0	2.0	124	1.66	0.16	9.8	1.7
Abbott AxSYM	16	1.81	0.15	8.3	1.8	16	1.53	0.12	8.1	1.6
Abbott IMx	28	1.93	0.11	5.6	1.9	29	1.62	0.09	5.5	1.6
Beckman (Sanofi) ACCESS	6	1.90	0.17	8.8	2.0	6	1.65	0.15	9.2	1.7
Beckman Synchron	14	1.73	0.15	8.9	1.8	14	1.49	0.17	11.5	1.5
Dade Dimension/AR/ES/RxL/Xpand	29	2.06	0.11	5.3	2.1	30	1.78	0.10	5.4	1.8
Roche TDM On Line	8	1.93	0.16	8.2	1.9	8	1.60	0.11	6.7	1.6
VITROS 250,400,500,700,750,950	7	2.07	0.21	9.9	2.1	7	1.71	0.13	7.9	1.7

<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	123	1.57	0.16	10.3	1.6	124	0.96	0.14	14.1	1.0
Abbott AxSYM	16	1.48	0.10	6.6	1.5	16	0.91	0.08	8.5	0.9
Abbott IMx	28	1.55	0.08	5.4	1.6	29	0.90	0.07	7.3	0.9
Beckman (Sanofi) ACCESS	6	1.58	0.15	9.3	1.7	6	1.10	0.09	8.1	1.1
Beckman Synchron	14	1.41	0.15	11.0	1.4	14	0.84	0.18	21.2	0.9
Dade Dimension/AR/ES/RxL/Xpand	30	1.71	0.09	5.5	1.7	30	1.03	0.08	7.7	1.0
Roche TDM On Line	8	1.53	0.10	6.8	1.5	8	0.95	0.11	11.3	0.9
VITROS 250,400,500,700,750,950	7	1.61	0.25	15.4	1.6	7	0.97	0.29	29.6	1.1

<u>Method</u>	<u>Specimen CH-15</u>				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	123	1.09	0.14	12.7	1.1
Abbott AxSYM	16	1.03	0.07	6.7	1.0
Abbott IMx	28	1.02	0.08	7.7	1.0
Beckman (Sanofi) ACCESS	6	1.17	0.10	8.9	1.2
Beckman Synchron	14	0.96	0.16	16.6	1.0
Dade Dimension/AR/ES/RxL/Xpand	30	1.18	0.07	5.9	1.2
Roche TDM On Line	8	1.04	0.09	8.8	1.0
VITROS 250,400,500,700,750,950	7	1.20	0.10	8.3	1.2

Lithium (mmol/L)

Two participants reported results for Lithium. The vendor assay values for specimens CH-11 through CH-15 are 0.6 mmol/L, 0.9 mmol/L, 0.8 mmol/L, 1.7 mmol/L and 1.3 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	13	50.10	4.21	8.4	51.3	14	42.60	2.97	7.0	41.4
Dade Dimension/AR/ES/RxL/Xpand	6	51.57	4.54	8.8	52.9	6	43.43	3.28	7.5	42.5
<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 Methods	14	39.31	3.42	8.7	39.9	14	26.29	2.02	7.7	26.5
Dade Dimension/AR/ES/RxL/Xpand	6	39.68	2.22	5.6	40.5	6	26.77	2.13	8.0	27.3
<u>Method</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	14	27.53	2.49	9.0	27.2					
Dade Dimension/AR/ES/RxL/Xpand	6	27.55	2.35	8.5	27.9					

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 Methods	38	11.79	0.94	8.0	11.8	36	15.49	1.03	6.6	15.2
Abbott AxSYM	7	11.89	0.50	4.2	12.0	7	15.40	0.86	5.6	15.3
All Abbott Analyzers	9	12.08	0.62	5.1	12.0	9	15.60	0.87	5.6	15.7
Beckman Synchron	13	11.60	0.37	3.2	11.5	13	14.81	0.53	3.6	15.0
Dade Dimension/AR/ES/RxL/Xpand	11	12.41	0.98	7.9	12.6	11	16.25	0.99	6.1	16.3
<u>Method</u>	Specimen CH-13					Specimen CH-14				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	36	25.10	1.51	6.0	25.0	36	7.40	0.56	7.5	7.4
Abbott AxSYM	7	24.61	1.12	4.6	24.7	7	7.40	0.37	5.1	7.5
All Abbott Analyzers	9	25.01	1.31	5.3	25.0	9	7.57	0.54	7.1	7.5
Beckman Synchron	13	24.26	1.09	4.5	24.8	13	7.16	0.33	4.6	7.2
Dade Dimension/AR/ES/RxL/Xpand	11	26.16	1.41	5.4	25.5	11	7.54	0.77	10.3	7.4
<u>Method</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	36	22.44	1.26	5.6	22.1					
Abbott AxSYM	7	21.94	0.31	1.4	21.9					
All Abbott Analyzers	9	22.27	0.86	3.9	22.0					
Beckman Synchron	13	21.72	1.03	4.8	21.7					
Dade Dimension/AR/ES/RxL/Xpand	11	23.45	1.25	5.3	23.5					

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	6	12.92	0.19	1.5	13.0	6	10.85	0.29	2.7	10.9
Dade Dimension/AR/ES/RxL/Xpand	6	12.92	0.19	1.5	13.0	6	10.85	0.29	2.7	10.9
<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	6	12.03	0.19	1.6	12.0	6	2.02	0.20	10.1	2.1
Dade Dimension/AR/ES/RxL/Xpand	6	12.03	0.19	1.6	12.0	6	2.02	0.20	10.1	2.1
<u>Method</u>	Specimen CH-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	6	6.93	0.24	3.5	7.0					
Dade Dimension/AR/ES/RxL/Xpand	6	6.93	0.24	3.5	7.0					

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 Methods	36	11.66	0.79	6.8	11.6	36	19.01	1.32	7.0	18.8
Abbott AxSYM	5	11.96	0.29	2.4	11.9	5	19.40	0.93	4.8	19.6
Abbott IMx	5	11.60	0.33	2.9	11.6	5	18.68	0.51	2.7	18.8
All Abbott IMx/TDx/AxSYM Analy	12	11.79	0.33	2.8	11.9	12	19.08	0.80	4.2	19.1
Beckman Synchron	10	10.87	0.43	3.9	10.9	10	17.75	0.54	3.0	17.9
Dade Dimension/AR/ES/RxL/Xpand	11	12.12	0.67	5.5	12.1	11	19.85	1.03	5.2	19.8
Dade Analyst/Dimension	11	12.12	0.67	5.5	12.1	11	19.85	1.03	5.2	19.8

<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 Methods	38	31.89	2.80	8.8	31.2	37	17.18	1.56	9.1	17.0
Abbott AxSYM	5	32.44	1.49	4.6	32.9	5	17.24	0.50	2.9	17.0
Abbott IMx	5	30.82	1.40	4.5	31.3	5	16.56	0.56	3.4	16.6
All Abbott IMx/TDx/AxSYM Analy	12	31.77	1.60	5.0	32.0	12	17.09	0.72	4.2	17.0
Beckman Synchron	10	29.24	1.16	4.0	29.3	10	15.63	1.01	6.4	16.0
Dade Dimension/AR/ES/RxL/Xpand	11	32.35	2.27	7.0	32.9	11	17.76	0.80	4.5	17.8
Dade Analyst/Dimension	11	32.35	2.27	7.0	32.9	11	17.76	0.80	4.5	17.8

<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	37	34.04	2.55	7.5	33.4
Abbott AxSYM	5	35.26	0.54	1.5	35.3
Abbott IMx	5	32.80	1.51	4.6	33.4
All Abbott IMx/TDx/AxSYM Analy	12	34.18	1.72	5.0	34.3
Beckman Synchron	10	32.13	0.97	3.0	32.0
Dade Dimension/AR/ES/RxL/Xpand	11	34.94	2.93	8.4	36.0
Dade Analyst/Dimension	11	34.94	2.93	8.4	36.0

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	15	114.25	5.65	5.0	111.6	15	94.37	6.50	6.9	94.6
Dade Dimension/AR/ES/RxL/Xpand	8	115.75	4.37	3.8	116.4	8	95.05	5.43	5.7	94.8

<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 Methods	15	61.87	3.70	6.0	62.6	15	97.41	4.95	5.1	97.9
Dade Dimension/AR/ES/RxL/Xpand	8	63.38	2.42	3.8	64.3	8	99.45	4.86	4.9	99.3

<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	15	54.11	3.41	6.3	55.1
Dade Dimension/AR/ES/RxL/Xpand	8	55.41	1.69	3.0	55.6

Apolipoproteins A1 (mg/dL)

<u>Method</u>	<u>Specimen LP-11</u>				<u>Specimen LP-12</u>			
	<u>Labs</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>	<u>Labs</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>
All Methods	3	33	2	35	3	33	2	35
Carolina Liquid Chemistries	1	33	33	33	1	33	33	33
Polymedco	1	2	2	2	1	2	2	2

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 Methods	39	7.673	0.033	0.4	7.67	40	7.664	0.032	0.4	7.67
AVL OPTI 1	6	7.670	0.011	0.1	7.67	6	7.662	0.010	0.1	7.67
i-STAT	12	7.711	0.007	0.1	7.71	12	7.699	0.005	0.1	7.70
Radiometer ABL 715/725/735	5	7.620	0.000	0.0	7.62	5	7.612	0.005	0.1	7.61
All non i-STAT methods	27	7.656	0.025	0.3	7.66	28	7.649	0.025	0.3	7.65

<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	41	7.174	0.023	0.3	7.18	40	7.433	0.019	0.3	7.43
AVL OPTI 1	6	7.188	0.008	0.1	7.19	6	7.432	0.008	0.1	7.43
i-STAT	13	7.195	0.016	0.2	7.19	12	7.454	0.007	0.1	7.45
Radiometer ABL 715/725/735	5	7.142	0.005	0.1	7.14	5	7.402	0.005	0.1	7.40
All non i-STAT methods	28	7.164	0.019	0.3	7.17	28	7.424	0.015	0.2	7.43

<u>Method</u>	Specimen BG-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	40	7.428	0.020	0.3	7.43
AVL OPTI 1	6	7.423	0.005	0.1	7.42
i-STAT	12	7.451	0.007	0.1	7.45
Radiometer ABL 715/725/735	5	7.394	0.006	0.1	7.39
All non i-STAT methods	28	7.418	0.015	0.2	7.42

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 Methods	41	18.66	2.19	11.7	19.0	41	19.33	1.97	10.2	20.0
AVL OPTI 1	6	21.00	0.00	0.0	21.0	6	21.00	0.63	3.0	21.0
i-STAT	13	16.19	0.64	4.0	16.4	13	16.77	0.59	3.5	16.8
Radiometer ABL 715/725/735	5	20.20	0.53	2.6	20.0	5	20.80	0.50	2.4	20.7
All non i-STAT methods	27	20.04	1.00	5.0	20.2	28	20.51	0.99	4.8	20.8

<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	41	66.50	5.83	8.8	68.5	41	41.12	3.53	8.6	42.0
AVL OPTI 1	6	70.50	1.05	1.5	70.5	6	44.00	1.10	2.5	44.0
i-STAT	13	58.68	1.29	2.2	58.6	13	36.48	0.81	2.2	36.6
Radiometer ABL 715/725/735	5	67.24	0.53	0.8	67.0	5	41.90	0.47	1.1	42.0
All non i-STAT methods	28	70.13	2.55	3.6	70.0	28	43.28	1.71	4.0	44.0

<u>Method</u>	Specimen BG-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	41	41.20	3.66	8.9	42.3
AVL OPTI 1	6	44.17	0.75	1.7	44.0
i-STAT	13	36.42	0.83	2.3	36.3
Radiometer ABL 715/725/735	5	41.98	0.44	1.1	42.1
All non i-STAT methods	27	43.64	1.49	3.4	44.0

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 Methods	40	143.08	12.00	8.4	144.2	40	143.74	14.04	9.8	145.8
AVL OPTI 1	6	136.33	14.12	10.4	139.5	6	133.50	8.69	6.5	132.5
i-STAT	12	138.25	13.77	10.0	139.0	12	139.17	16.05	11.5	141.5
Radiometer ABL 715/725/735	5	143.20	8.56	6.0	145.0	5	141.20	11.45	8.1	147.0
All non- i-STAT methods	27	146.45	8.44	5.8	145.0	28	145.69	12.90	8.9	146.5

<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	40	73.39	11.79	16.1	73.8	40	105.27	8.92	8.5	106.5
AVL OPTI 1	6	78.17	4.71	6.0	78.5	6	103.83	9.30	9.0	101.0
i-STAT	12	82.92	11.90	14.4	81.5	12	106.17	10.72	10.1	108.5
Radiometer ABL 715/725/735	5	71.60	2.51	3.5	71.3	5	106.00	4.18	4.0	107.0
All non- i-STAT methods	28	69.31	9.25	13.3	71.7	28	104.88	8.23	7.8	106.0

<u>Method</u>	Specimen BG-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	38	105.73	6.75	6.4	107.3
AVL OPTI 1	6	102.83	6.15	6.0	104.0
i-STAT	12	106.17	13.72	12.9	106.0
Radiometer ABL 715/725/735	5	108.20	3.77	3.5	109.0
All non- i-STAT methods	28	105.85	7.02	6.6	107.3

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	5	1.286	0.977	76.0	0.61	5	1.186	0.918	77.4	0.56

Blood Gases - Chloride (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	4	-	-	-	127	4	-	-	-	127
<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	-	-	-	79	4	-	-	-	94
<u>Method</u>	Specimen BG-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	4	-	-	-	94					

Blood Gases - Potassium (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	10	5.99	0.07	1.2	6.0	10	6.02	0.06	1.1	6.0
<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 Methods	10	2.01	0.07	3.7	2.0	10	4.26	0.05	1.2	4.3
<u>Method</u>	Specimen BG-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	10	4.28	0.04	1.0	4.3					

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	8	157.8	3.5	2.2	157	8	158.6	3.9	2.5	157
<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	8	113.8	0.7	0.6	114	8	133.0	2.6	1.9	132
<u>Method</u>	Specimen BG-15									
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>					
All Methods	8	133.8	2.4	1.8	133					

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 Methods	352	11.89	0.65	5.4	11.9	349	9.27	0.55	5.9	9.3
Alpha Wasserman ACE HbA1C	9	13.98	1.80	12.9	13.6	9	10.98	1.40	12.8	10.5
Bayer Technicon RA/Opera Sys	5	12.02	1.15	9.5	12.1	5	9.34	0.59	6.3	9.3
Beckman Synchron	20	11.75	0.53	4.5	11.8	20	8.87	0.37	4.2	8.9
Bio-Rad D-10 HbA1c	5	12.16	0.13	1.1	12.1	5	9.26	0.39	4.2	9.3
Bio-Rad DiaSTAT	12	11.43	0.63	5.5	11.2	12	8.94	1.02	11.4	8.7
Bio-Rad Variant II	10	12.24	0.49	4.0	12.3	10	9.45	0.36	3.8	9.5
Cholestech GDx	11	10.88	1.75	16.1	11.2	11	9.05	0.70	7.7	9.1
Dade Dimension HA1C	35	11.41	0.40	3.6	11.3	34	8.82	0.26	2.9	8.8
DCA 2000	141	11.98	0.44	3.7	12.0	141	9.38	0.30	3.2	9.4
Metrika A1C Now	8	10.85	1.32	12.1	11.2	8	8.51	0.83	9.8	8.4
Polymedco Hemoglobin A1C	12	11.87	0.89	7.5	12.0	12	9.88	1.43	14.5	9.9
Primus PDQ Plus A1c	5	11.30	0.71	6.3	11.5	5	8.68	0.59	6.8	8.8
Roche Cobas Mira A1C	40	12.15	0.83	6.9	12.2	41	9.49	0.82	8.7	9.5
Roche Integra	5	12.30	0.55	4.5	12.1	5	9.54	0.50	5.3	9.5
TOSOH 2.2 Plus	15	12.42	0.25	2.0	12.4	15	9.63	0.17	1.8	9.7
TOSOH G7	5	11.88	0.13	1.1	11.9	5	9.26	0.15	1.6	9.2
Hemoglobin A1c methods	332	11.89	0.64	5.4	11.9	329	9.26	0.54	5.8	9.3

B-Type Natriuretic Peptide

<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 Methods	41	957	214	22	928	47	64	18	28	61
Biosite Triage	38	915	156	17	918	44	61	16	26	61

CK-MB (IU/L) Quantitative

<u>Method</u>	Specimen CK-11			
	<u>Labs</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>
All Methods	2	31.6	12.1	51.1

Two participants reported results for CK-MB (IU/L) Quantitative. The vendor assay values for specimens CK-12 through CK-15 are <1.0 IU/L, <1.0 IU/L, <1.0 IU/L and <1.0 IU/L, respectively.

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 Methods	33	46.94	20.36	43.4	54.8	11	0.48	0.34	70.0	0.4
Abbott AxSYM	5	60.50	2.55	4.2	61.4	-	-	-	-	-
Abbott IMx	6	63.77	1.92	3.0	63.7	-	-	-	-	-
Biosite Triage	8	18.40	2.33	12.7	18.9	-	-	-	-	-
Dade Dimension/AR/ES/RxL/Xpand	8	53.21	2.58	4.9	53.2	5	0.40	0.07	17.7	0.4

<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 Methods	13	0.39	0.35	89.2	0.2	12	0.38	0.37	97.5	0.2
Abbott AxSYM	-	-	-	-	-	-	-	-	-	-
Abbott IMx	-	-	-	-	-	-	-	-	-	-
Biosite Triage	-	-	-	-	-	-	-	-	-	-
Dade Dimension/AR/ES/RxL/Xpand	5	0.32	0.13	40.8	0.3	5	0.22	0.18	81.3	0.1

<u>Method</u>	Specimen CK-15				
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	27	1.31	0.35	27.1	1.3
Abbott AxSYM	-	-	-	-	-
Abbott IMx	6	1.38	0.21	15.5	1.5
Biosite Triage	-	-	-	-	-
Dade Dimension/AR/ES/RxL/Xpand	7	1.11	0.39	34.9	1.2

CK-MB (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12		Specimen CK-13	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	-	10	10	-	10	-
Biosite Triage	-	1	1	-	1	-
LifeSign MI	-	5	5	-	5	-
Spectral Cardiac STATus	-	4	4	-	4	-

<u>Method</u>	Specimen CK-14		Specimen CK-15	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	10	-	8	2
Biosite Triage	1	-	1	-
LifeSign MI	5	-	3	2
Spectral Cardiac STATus	4	-	4	-

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 Methods	16	200.16	82.97	41.5	177.0	16	54.96	12.71	23.1	58.0
Biosite Triage	9	135.22	30.04	22.2	138.0	9	46.34	9.09	19.6	46.1

Myoglobin (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	1	10	10	1
Biosite Triage	1	-	1	-
LifeSign MI	-	5	4	1
Spectral Cardiac STATus	-	5	5	-

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 Methods	33	4.11	3.93	95.8	4.4	29	0.86	0.48	55.8	0.9
Biosite Triage	9	0.61	0.23	37.9	0.6	-	-	-	-	-
Dade Dimension/AR/ES/RxL/Xpand	10	5.00	0.54	10.8	5.0	10	1.02	0.13	12.9	1.0
Dade Stratus CS	8	4.49	0.45	10.0	4.5	8	0.83	0.10	12.6	0.8

Troponin I (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	3	9	11	1
Biosite Triage	1	-	1	-
LifeSign MI	1	4	4	1
Spectral Cardiac STATus	1	5	6	-

Troponin T (Qualitative)

<u>Method</u>	Specimen CK-11		Specimen CK-12	
	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>
All Methods	-	1	2	-
Roche CARDIAC T Rapid Assay	-	1	1	-
Spectral Cardiac STATus	-	-	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 Methods	325	6.69	1.69	25.2	7.6	325	13.10	3.31	25.2	14.8
Abbott AxSYM	35	7.92	0.64	8.1	8.0	35	15.53	1.53	9.9	15.4
Abbott IMx	133	8.16	0.30	3.7	8.2	132	16.01	0.62	3.9	16.0
All Abbott Analyzers	163	8.12	0.33	4.0	8.1	162	15.93	0.73	4.6	15.9
BDI Opus/Plus/Magnum	8	15.74	1.57	10.0	16.0	8	31.14	3.54	11.4	32.0
Beckman (Sanofi) ACCESS	10	5.60	0.11	1.9	5.6	10	11.10	0.41	3.7	11.0
Beckman ACCESS Hybritech PSA	16	5.79	0.24	4.1	5.8	16	11.29	0.56	5.0	11.3
bioMerieux Vitek, Mini Vidas	16	5.67	0.50	8.8	5.7	16	10.96	0.94	8.5	10.9
Dade Dimension TPSA	22	4.59	0.32	7.0	4.7	22	9.10	0.62	6.8	9.3
Dade Dimension/AR/ES/RxL/Xpand	12	4.68	0.24	5.2	4.7	12	9.45	0.52	5.5	9.4
DPC Immulite	17	5.38	0.81	15.1	5.6	17	10.58	1.33	12.6	11.1
Qualigen FastPack	9	8.52	0.64	7.5	8.7	9	15.92	1.59	10.0	16.1
Roche Elecsys 1010/2010	6	5.42	0.65	11.9	5.2	6	10.42	1.24	11.9	10.1
TOSOH AIA	37	4.45	0.24	5.4	4.4	38	8.57	0.51	6.0	8.5

PAP (ng/mL)

<u>Method</u>	Specimen PS-5				Specimen PS-6			
	<u>Labs</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>	<u>Labs</u>	<u>Median</u>	<u>Low Value</u>	<u>High Value</u>
All Methods	3	11.3	7.9	12.9	3	20.8	16.0	22.9
Abbott IMx	2	10.4	7.9	12.9	2	19.5	16.0	22.9
TOSOH AIA	1	11.3	11.3	11.3	1	20.8	20.8	20.8

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	7	81.0	8.3	10.3	84	7	156.4	16.3	10.4	162

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 Methods	24	58.3	9.1	15.5	60	24	87.7	13.9	15.9	90
Abbott AxSYM	6	59.8	6.7	11.3	60	6	88.5	8.8	10.0	90
TOSOH AIA	8	65.3	4.4	6.7	65	8	100.5	8.2	8.2	97

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 Methods	15	32.2	3.3	10.2	32	16	47.9	5.2	10.9	48
Abbott IMx	7	31.7	1.5	4.7	32	8	47.6	2.9	6.1	48

CA 19-9 (U/mL)

Three participants reported results for CA 19-9. The vendor assay values for specimens TM-11 and TM-12 are 20.5 U/mL and 29.0 U/mL, respectively.

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 Methods	31	20.25	3.27	16.1	19.0	30	38.45	5.79	15.1	36.7
Abbott AxSYM	5	18.14	1.12	6.2	17.8	5	35.32	2.14	6.1	36.6
Abbott IMx	14	18.18	1.32	7.3	18.0	13	34.65	2.34	6.8	34.2
All Abbott Analyzers	19	18.17	1.24	6.8	17.8	18	34.83	2.25	6.5	34.5
TOSOH AIA	8	24.99	1.15	4.6	25.0	8	46.58	1.82	3.9	47.0

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 Methods	14	5.89	1.24	21.1	6.4	14	11.79	2.41	20.5	12.6
Beckman Hybritech Free PSA	7	6.67	0.26	3.9	6.8	7	13.23	0.75	5.7	13.1

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 Methods	45	7.02	2.17	31.0	6.6	45	14.19	3.97	28.0	12.9
Abbott AxSYM	7	9.60	0.30	3.1	9.5	7	18.64	0.66	3.6	18.9
Abbott IMx	10	9.37	0.26	2.8	9.5	10	19.01	0.41	2.2	19.1
All Abbott Analyzers	17	9.46	0.29	3.1	9.5	17	18.86	0.54	2.9	19.0
Beckman ACCESS Hybritech PSA	7	6.37	0.19	3.0	6.4	7	12.79	0.51	4.0	12.9
TOSOH AIA	8	4.94	0.40	8.2	5.0	8	9.93	0.70	7.1	10.1

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 Methods	31	9.15	1.38	15.1	8.6	31	17.79	2.54	14.3	16.4
Abbott AxSYM	5	8.08	0.46	5.6	7.9	5	15.96	0.83	5.2	15.9
Abbott IMx	11	8.26	0.48	5.8	8.3	11	16.41	1.59	9.7	16.0
All Abbott Analyzers	16	8.21	0.46	5.6	8.3	16	16.27	1.38	8.5	16.0
TOSOH AIA	9	11.13	0.51	4.6	11.3	9	21.19	1.16	5.5	21.2

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 Methods	31	213.1	98.6	46.3	189	31	346.9	173.7	50.1	316
Abbott AxSYM	5	84.6	20.8	24.6	85	5	105.4	28.4	26.9	109
Beckman (Sanofi) ACCESS	7	335.6	46.6	13.9	328	7	576.9	56.1	9.7	580
DPC Immulite	8	188.1	20.4	10.8	186	8	309.0	28.3	9.2	309

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 Methods	87	85.3	7.9	9.3	85	87	143.9	14.4	10.0	143
Beckman (Sanofi) ACCESS	19	79.9	3.1	3.9	80	19	133.7	4.9	3.7	134
Dade Dimension/AR/ES/RxL/Xpand	7	86.0	1.9	2.2	86	7	143.9	4.2	2.9	143
DPC Immulite	8	85.3	7.1	8.3	85	8	141.6	12.0	8.5	143
Polymedco	10	92.6	10.0	10.8	89	10	158.7	12.8	8.1	155
Roche Elecsys 1010/2010	6	89.7	9.2	10.3	91	6	149.0	16.7	11.2	148
TOSOH AIA	20	87.6	6.2	7.0	90	20	150.0	9.5	6.3	152

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 Methods	41	5.50	1.91	34.8	4.3	41	10.50	3.71	35.4	8.5
Beckman (Sanofi) ACCESS	16	3.93	0.23	5.8	4.0	16	7.79	0.48	6.2	7.8
TOSOH AIA	12	6.93	1.13	16.3	7.3	12	12.64	2.04	16.2	12.6

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 Methods	48	22.10	2.53	11.4	22.5	48	38.43	5.52	14.4	37.8
Abbott AxSYM	11	19.25	2.03	10.5	19.3	11	33.03	4.67	14.1	31.4
All Abbott Analyzers	15	19.07	2.44	12.8	19.3	15	33.05	4.30	13.0	31.5
Beckman (Sanofi) ACCESS	10	21.90	1.18	5.4	21.4	10	37.67	2.34	6.2	37.3
DPC Immulite	11	24.76	2.11	8.5	24.5	11	45.22	3.16	7.0	45.5

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 Methods	44	15.7	1.4	9.1	16	44	26.3	2.0	7.5	26
Abbott AxSYM	8	15.3	0.7	4.6	15	8	25.9	0.6	2.5	26
Abbott IMx	19	15.9	1.2	7.4	16	18	26.3	1.1	4.3	27
Carolina Liquid/All instrument	10	15.6	1.7	11.0	16	10	27.1	1.9	7.1	27

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 Methods	36	13.61	4.08	30.0	12.5	36	23.21	7.52	32.4	21.1
Abbott AxSYM	9	12.66	2.02	15.9	12.0	9	21.47	2.65	12.3	21.5
All Abbott Analyzers	11	12.98	1.97	15.2	12.6	11	22.25	2.95	13.3	21.5
Beckman (Sanofi) ACCESS	8	8.79	0.87	10.0	8.7	8	14.43	0.79	5.5	14.2
DPC Immulite	8	19.25	0.89	4.6	19.4	8	34.05	1.41	4.2	34.4

PAP (ng/mL)

Two participants reported results for PAP (ng/mL). The vendor assay values for specimens SC-5 and SC-6 are 11.4 ng/mL and 20.5 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 Methods	19	16.14	2.04	12.7	16.5	19	25.67	4.41	17.2	26.8
DPC Immulite	5	14.60	1.60	11.0	14.3	5	23.56	5.14	21.8	22.0

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 Methods	37	10.65	1.77	16.6	10.0	37	18.22	3.02	16.6	17.7
Abbott AxSYM	10	12.15	0.84	6.9	11.9	10	20.74	1.36	6.6	20.6
All Abbott Analyzers	12	12.32	0.86	7.0	12.1	12	21.08	1.48	7.0	20.8
Beckman (Sanofi) ACCESS	9	9.33	0.80	8.5	9.2	9	15.63	1.23	7.9	15.6
DPC Immulite	8	9.85	0.51	5.2	9.8	8	17.30	0.76	4.4	17.0

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 Methods	40	502.2	116.5	23.2	474.0	40	696.8	124.3	17.8	674.0
Beckman (Sanofi) ACCESS	13	407.7	28.1	6.9	410.0	13	605.8	31.6	5.2	607.0
DPC Immulite	12	634.3	72.5	11.4	606.0	12	811.6	78.5	9.7	815.0

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 Methods	48	676.8	123.6	18.3	636	47	895.5	128.3	14.3	919
Beckman (Sanofi) ACCESS	19	577.2	40.6	7.0	578	19	797.7	79.2	9.9	803
TOSOH AIA	14	795.9	64.9	8.2	792	14	1018.8	96.1	9.4	1002

Whole Blood Glucose (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen WBG-11</u>					<u>Specimen WBG-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	430	306.1	50.0	16.3	306	419	43.1	15.7	36.4	38
Bayer Glucometer Elite / XL	69	244.4	20.9	8.6	245	62	25.8	3.5	13.4	26
BMC Accu-Chek Advant/Comp/GTS	121	308.8	11.2	3.6	309	122	36.3	3.0	8.2	37
BMC Accu-Chek Easy	5	324.4	2.5	0.8	324	5	43.2	2.2	5.0	42
Lifescan One Touch Basic	22	280.5	27.6	9.8	280	22	53.0	3.8	7.2	53
Lifescan One Touch II-WB	12	276.8	37.6	13.6	281	12	53.6	8.1	15.0	55
Lifescan One Touch Profile	10	275.8	19.9	7.2	275	10	53.6	3.1	5.8	54
Lifescan One Touch Ultra	52	292.9	30.9	10.5	287	51	27.3	4.6	16.9	27
Lifescan Surestep	43	408.6	27.8	6.8	407	41	69.3	4.4	6.4	68
Medisense Precis. Xtra/Optium	19	329.7	13.1	4.0	327	19	52.1	2.1	4.1	52
Medisense Precision PCx	15	344.0	25.5	7.4	340	15	65.6	4.8	7.3	65
Medisense Precision QID	12	338.5	21.7	6.4	351	12	65.8	4.3	6.5	67
All Medisense Meters	28	340.2	24.2	7.1	342	28	65.4	4.7	7.2	65
Roche Accu-Chek Active	6	266.2	25.7	9.6	265	6	48.3	10.9	22.7	54
Roche Accu-Chek Inform	13	313.1	9.6	3.1	316	13	36.8	2.3	6.2	36
TheraSense FreeStyle	7	260.0	34.4	13.2	262	7	54.6	6.7	12.3	56

<u>Reagent/Instrument</u>	<u>Specimen WBG-13</u>					<u>Specimen WBG-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	60	354.5	53.4	15.1	346	59	172.3	24.3	14.1	165
Bayer Glucometer Elite / XL	10	298.3	22.4	7.5	302	10	146.3	6.3	4.3	145
BMC Accu-Chek Advant/Comp/GTS	16	360.8	13.6	3.8	364	16	158.7	5.6	3.5	159
Lifescan One Touch Profile	7	311.7	14.6	4.7	313	7	181.9	7.0	3.8	183
Medisense Precision PCx	5	372.4	44.7	12.0	348	5	202.0	13.4	6.6	201
All Medisense Meters	6	377.2	41.6	11.0	375	6	202.2	12.0	5.9	202

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>
All Methods	59	248.1	41.1	16.6	240
Bayer Glucometer Elite / XL	10	200.1	11.1	5.5	198
BMC Accu-Chek Advant/Comp/GTS	16	239.1	8.6	3.6	239
Lifescan One Touch Profile	7	241.4	16.9	7.0	235
Medisense Precision PCx	5	284.2	12.0	4.2	279
All Medisense Meters	6	286.7	12.3	4.3	287

Urine Drug Screen

Alcohol

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	4	4	-	4	-	4
Abbott AxSYM	1	1	-	1	-	1
BM Hitachi	2	2	-	2	-	2
Dade Behring EMIT II	1	1	-	1	-	1

Urine Drug Screen

Amphetamines

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	46	46	-	46	46	-
Abbott AxSYM	4	4	-	4	4	-
American BioMedica Rapid Drug	5	5	-	5	5	-
Applied Biotech SureStep	2	2	-	2	2	-
Beckman Synchron	1	1	-	1	1	-
BIOSITE Diagnostics Triage	9	9	-	9	9	-
BM Hitachi	2	2	-	2	2	-
Dade Behring EMIT II	3	3	-	3	3	-
Diagnostic Reagents, Inc.	1	1	-	1	1	-
InstaCheck Drug Screen	1	1	-	1	1	-
MEDTOX Diagnostics	6	6	-	6	6	-
Pharmatech QuickScreen Pro	5	5	-	5	5	-
Roche OnTrak	1	1	-	1	1	-

Barbiturates

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	29	-	29	29	29	-
Abbott AxSYM	4	-	4	4	4	-
American BioMedica Rapid Drug	1	-	1	1	1	-
Applied Biotech SureStep	1	-	1	1	1	-
Beckman Synchron	1	-	1	1	1	-
BIOSITE Diagnostics Triage	9	-	9	9	9	-
BM Hitachi	1	-	1	1	1	-
Dade Behring EMIT II	3	-	3	3	3	-
Diagnostic Reagents, Inc.	1	-	1	1	1	-
MEDTOX Diagnostics	3	-	3	3	3	-
Roche OnTrak	1	-	1	1	1	-

Benzodiazepines

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	29	27	2	28	28	-
Abbott AxSYM	4	4	-	4	4	-
American BioMedica Rapid Drug	1	1	-	1	1	-
Applied Biotech SureStep	1	1	-	1	1	-
Beckman Synchron	1	1	-	1	1	-
BIOSITE Diagnostics Triage	9	8	1	9	9	-
BM Hitachi	1	1	-	1	1	-
Dade Behring EMIT II	3	3	-	3	3	-
Diagnostic Reagents, Inc.	1	1	-	1	1	-
MEDTOX Diagnostics	3	3	-	3	3	-
Roche OnTrak	1	1	-			

Urine Drug Screen

Cannabinoids (THC)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	46	45	1	46	-	46
Abbott AxSYM	4	4	-	4	-	4
American BioMedica Rapid Drug	5	5	-	5	-	5
Applied Biotech SureStep	2	2	-	2	-	2
Beckman Synchron	1	1	-	1	-	1
BIOSITE Diagnostics Triage	9	8	1	9	-	9
BM Hitachi	1	1	-	1	-	1
Dade Behring EMIT II	3	3	-	3	-	3
Diagnostic Reagents, Inc.	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
MEDTOX Diagnostics	7	7	-	7	-	7
Pharmatech QuickScreen Pro	5	5	-	5	-	5
Roche OnTrak	1	1	-	1	-	1

Cocaine Metabolites

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	46	46	-	46	-	46
Abbott AxSYM	4	4	-	4	-	4
American BioMedica Rapid Drug	5	5	-	5	-	5
Applied Biotech SureStep	2	2	-	2	-	2
Beckman Synchron	1	1	-	1	-	1
BIOSITE Diagnostics Triage	9	9	-	9	-	9
BM Hitachi	1	1	-	1	-	1
Dade Behring EMIT II	3	3	-	3	-	3
Diagnostic Reagents, Inc.	1	1	-	1	-	1
InstaCheck Drug Screen	1	1	-	1	-	1
MEDTOX Diagnostics	7	7	-	7	-	7
Pharmatech QuickScreen Pro	5	5	-	5	-	5
Roche OnTrak	1	1	-	1	-	1

Methadone

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	14	-	14	14	14	-
Abbott AxSYM	2	-	2	2	2	-
Applied Biotech SureStep	1	-	1	1	1	-
Beckman Synchron	1	-	1	1	1	-
BIOSITE Diagnostics Triage	1	-	1	1	1	-
BM Hitachi	1	-	1	1	1	-
Dade Behring EMIT II	3	-	3	3	3	-
Diagnostic Reagents, Inc.	1	-	1	1	1	-
MEDTOX Diagnostics	3	-	3	3	3	-

Urine Drug Screen

Methaqualone

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	4	4	-	4	-	4
BM Hitachi	2	2	-	2	-	2
Dade Behring EMIT II	1	1	-	1	-	1
Diagnostic Reagents, Inc.	1	1	-	1	-	1

Opiates

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	45	-	45	45	45	-
Abbott AxSYM	4	-	4	4	4	-
American BioMedica Rapid Drug	5	-	5	5	5	-
Applied Biotech SureStep	1	-	1	1	1	-
Beckman Synchron	1	-	1	1	1	-
BIOSITE Diagnostics Triage	9	-	9	9	9	-
BM Hitachi	1	-	1	1	1	-
Dade Behring EMIT II	3	-	3	3	3	-
Diagnostic Reagents, Inc.	1	-	1	1	1	-
InstaCheck Drug Screen	1	-	1	1	1	-
MEDTOX Diagnostics	7	-	7	7	7	-
Pharmatech QuickScreen Pro	5	-	5	5	5	-
Roche OnTrak	1	-	1	1	1	-

Phencyclidine (PCP)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	34	2	32	34	34	-
Abbott AxSYM	3	-	3	3	3	-
American BioMedica Rapid Drug	3	-	3	3	3	-
Beckman Synchron	1	-	1	1	1	-
BIOSITE Diagnostics Triage	8	1	7	8	8	-
BM Hitachi	1	-	1	1	1	-
Dade Behring EMIT II	3	-	3	3	3	-
Diagnostic Reagents, Inc.	1	-	1	1	1	-
InstaCheck Drug Screen	1	-	1	1	1	-
MEDTOX Diagnostics	6	-	6	6	6	-
Roche OnTrak	1	1	-	1	1	-

Propoxyphene

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
All Methods	8	8	-	8	8	-
Beckman Synchron	1	1	-	1	1	-
BM Hitachi	1	1	-	1	1	-
Dade Behring EMIT II	2	2	-	2	2	-
Diagnostic Reagents, Inc.	1	1	-	1	1	-
MEDTOX Diagnostics	2	2	-	2	2	-

