

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias	
CA125 all lab mean:								CA125 Siemens/DPC Immulite 1000 (DPB/DP5) mean:						
mean	42.9	29.0	35.3	63.2	69.7		mean	44.2	30.7	38.2	67.6	76.6		
SD	5.9	3.4	4.7	6.9	8.6		SD	1.9	1.3	2.1	3.2	3.5		
%CV	13.7%	11.9%	13.4%	10.9%	12.3%		%CV	4.3%	4.4%	5.6%	4.7%	4.6%		
N	119	120	119	118	118		N	5	5	5	5	5		
mean+3SD	60.5	39.3	49.5	83.8	95.5		mean+3SD	50.0	34.7	44.5	77.0	87.2		
mean-3SD	25.3	18.7	21.1	42.5	44.0		mean-3SD	38.5	26.6	31.8	58.1	65.9		
mean/all kit median	1.00	1.01	0.98	0.95	1.00	0.99	kit median	43.7	30.2	38.0	69.1	77.6		
							mean/all kit median	1.03	1.07	1.06	1.02	1.09	1.06	
CA125 TOSOH ST A1A (TOM/TO2) mean:								CA125 Siemens/DPC Immulite 2500 (DPF/DP5) mean:						
mean	57.4	37.8	46.3	83.8	102.1		mean	43.0	27.8	35.9	66.2	70.0		
N	2	2	2	2	2		SD	4.0	1.2	1.9	3.1	1.8		
mean/all kit median	1.33	1.32	1.29	1.27	1.46	1.33	%CV	9.2%	4.2%	5.4%	4.6%	2.6%		
							N	5	5	5	5	5		
CA125 Abbott Asxym, Imx, & Architect (ABB, ABM, & ABH/AB1) mean:								CA125 Siemens/DPC Immulite 2000 (DPD/DP5) mean:						
mean	50.9	33.9	41.6	68.9	81.1		mean	42.6	28.2	34.8	63.5	67.8		
SD	2.9	2.9	3.3	5.5	6.8		SD	3.4	1.7	2.4	3.5	4.7		
%CV	5.7%	8.5%	8.0%	7.9%	8.4%		%CV	8.0%	6.2%	6.9%	5.4%	7.0%		
N	13	14	14	14	14		N	25	24	25	25	25		
mean+3SD	59.6	42.6	51.5	85.3	101.6		mean+3SD	52.7	33.4	42.0	73.9	81.9		
mean-3SD	42.2	25.3	31.7	52.5	60.6		mean-3SD	32.4	23.0	27.5	53.2	53.6		
kit median	51.5	33.6	41.9	69.7	80.4		kit median	43.1	28.0	34.8	64.0	69.0		
mean/all kit median	1.18	1.19	1.16	1.04	1.16	1.15	mean/all kit median	0.99	0.99	0.97	0.96	0.97	0.97	
CA125 TOSOH AIA (TOM/TO1) mean:								CA125 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:						
mean	48.4	32.7	39.6	72.0	86.7		mean	40.8	28.6	33.9	62.2	68.6		
SD	3.0	1.6	1.1	4.0	2.2		SD	3.1	1.9	2.0	3.2	4.6		
%CV	6.2%	4.9%	2.8%	5.6%	2.6%		%CV	7.6%	6.7%	5.8%	5.1%	6.7%		
N	4	4	4	4	4		N	30	30	30	29	30		
mean+3SD	57.4	37.5	42.9	84.0	93.4		mean+3SD	50.1	34.4	39.8	71.6	82.3		
mean-3SD	39.4	28.0	36.2	60.0	80.0		mean-3SD	31.5	22.8	28.0	52.7	54.9		
kit median	48.3	33.1	39.5	71.0	86.7		kit median	41.5	29.0	34.0	62.0	69.1		
mean/all kit median	1.13	1.14	1.10	1.09	1.24	1.14	mean/all kit median	0.95	1.00	0.94	0.94	0.98	0.96	
CA125 Beckman Unicel & Access (BCU & BCX/BC1) mean:														
mean	50.4	32.6	40.8	71.6	76.5									
SD	2.3	1.0	0.9	1.9	2.9									
%CV	4.5%	3.2%	2.2%	2.7%	3.8%									
N	10	10	10	10	10									
mean+3SD	57.2	35.7	43.5	77.4	85.2									
mean-3SD	43.6	29.5	38.0	65.8	67.9									
kit median	49.7	32.1	40.8	71.9	78.0									
mean/all kit median	1.17	1.14	1.13	1.08	1.09	1.12								

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias	TM171	TM172	TM173	TM174	TM175	Average bias	
CA125 Ortho Clinical Vitros Eci (JJC/JJ1) mean:							CA125 Roche Elecsys & E170 (BME & BMR/BM1) mean:						
mean	37.3	24.1	29.5	55.2	62.9		mean	35.8	25.1	29.4	53.8	59.8	
SD	1.3	1.4	1.7	2.1	2.9		SD	2.2	1.4	1.6	2.7	3.2	
%CV	3.5%	5.6%	5.7%	3.9%	4.6%		%CV	6.0%	5.5%	5.4%	5.1%	5.3%	
N	5	5	5	5	5		N	18	18	18	18	18	
mean+3SD	41.2	28.2	34.5	61.6	71.6		mean+3SD	42.3	29.2	34.1	62.0	69.2	
mean-3SD	33.4	20.0	24.5	48.8	54.2		mean-3SD	29.3	21.0	24.6	45.6	50.3	
kit median	37.4	23.5	30.0	55.8	63.6		kit median	35.8	25.6	29.2	53.9	59.7	
mean/all kit median	0.87	0.84	0.82	0.83	0.90	0.85	mean/all kit median	0.83	0.88	0.82	0.81	0.85	0.84
CA125 Fujirebio/Centocor (GAA/CE1) mean:							CA125 kit average:						
mean	27.4	18.4	23.6	41.2	51.4		mean	43.5	29.1	35.8	64.2	73.0	
N	2	2	2	2	2		SD	8.3	5.3	6.5	11.2	13.9	
mean/all kit median	0.64	0.64	0.66	0.62	0.73	0.66	all kit median	43.0	28.6	35.9	66.2	70.0	
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	TM171	TM172	TM173	TM174	TM175		TM171	TM172	TM173	TM174	TM175		
CA27.29 all lab mean:							CA27.29 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:						
mean	19.6	57.9	26.2	77.3	78.7		mean	18.2	57.4	25.2	76.5	78.4	
SD	4.0	4.0	3.9	4.4	3.6		SD	2.3	3.6	3.0	3.2	2.8	
%CV	20.4%	6.9%	15.0%	5.7%	4.5%		%CV	12.5%	6.3%	11.9%	4.1%	3.6%	
N	52	52	52	51	52		N	41	42	42	41	42	
mean+3SD	31.6	69.8	38.0	90.5	89.4		mean+3SD	25.0	68.3	34.1	86.0	86.7	
mean-3SD	7.6	46.0	14.4	64.1	68.0		mean-3SD	11.4	46.5	16.2	67.0	70.0	
mean/all kit median	0.94	1.02	0.94	1.01	1.02	0.99	kit median	18.2	56.9	24.7	76.0	78.2	
							mean/all kit median	0.87	1.01	0.90	1.00	1.01	0.96
CA27.29 TOSOH ST AIA (TOM/TO2) mean:							CA27.29 Siemens/Bayer ACS-180 (COS/BA1) mean:						
mean	28.2	63.9	34.1	86.1	85.1		mean	19.7	56.1	24.6	74.2	74.3	
SD	1.1	3.0	1.9	3.3	2.1		SD	3.3	1.7	1.1	2.0	2.2	
%CV	3.8%	4.7%	5.5%	3.8%	2.4%		%CV	16.6%	3.0%	4.4%	2.6%	2.9%	
N	5	5	5	5	5		N	3	3	3	3	3	
mean+3SD	31.4	72.9	39.8	95.9	91.3		mean+3SD	29.5	61.2	27.8	80.0	80.8	
mean-3SD	25.0	55.0	28.4	76.2	78.9		mean-3SD	9.9	51.0	21.3	68.3	67.9	
kit median	27.8	63.2	34.1	84.7	84.9		kit median	18.5	56.2	24.1	73.3	73.4	
mean/all kit median	1.35	1.13	1.22	1.13	1.10	1.19	mean/all kit median	0.95	0.99	0.88	0.97	0.96	0.95
CA27.29 TOSOH AIA (TOM/TO1) mean:							CA27.29 kit average:						
mean	22.0	55.0	30.7	75.9	76.4		mean	22.0	58.1	28.6	78.2	78.5	
N	2	2	2	2	2		SD	4.4	4.0	4.6	5.4	4.7	
mean/all kit median	1.05	0.97	1.10	1.00	0.99	1.02	all kit median	20.8	56.7	27.9	76.2	77.4	

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
CA15-3 all lab mean:							CA15-3 Beckman Unicel & Access (BCU & BCX/BC1) mean:						
mean	25.1	57.5	31.0	79.0	76.5		mean	23.3	52.7	27.7	70.3	69.6	
SD	11.8	26.5	14.3	36.7	32.9		SD	1.5	3.5	1.0	5.9	6.1	
%CV	46.9%	46.1%	46.1%	46.5%	43.0%		%CV	6.4%	6.7%	3.7%	8.5%	8.7%	
N	53	53	53	53	53		N	5	5	5	5	5	
mean+3SD	60.4	137.1	73.9	189.2	175.3		mean+3SD	27.8	63.3	30.7	88.2	87.8	
mean-3SD	-10.2	-22.1	-11.9	-31.2	-22.2		mean-3SD	18.9	42.1	24.7	52.5	51.5	
mean/all kit median	1.28	1.22	1.26	1.20	1.17	1.22	kit median	23.4	51.4	27.9	69.9	68.3	
							mean/all kit median	1.19	1.11	1.12	1.07	1.07	1.11
CA15-3 Siemens/DPC Immulite 1000/2000 (DPB & DPD/DP5) mean:							CA15-3 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:						
mean	49.4	110.4	59.5	150.7	143.3		mean	19.7	47.3	24.6	65.8	65.2	
SD	3.1	2.4	3.7	11.2	4.5		SD	1.7	3.8	2.5	4.6	5.2	
%CV	6.3%	2.1%	6.1%	7.4%	3.2%		%CV	8.6%	8.0%	10.1%	7.0%	7.9%	
N	7	7	7	7	7		N	20	20	20	20	20	
mean+3SD	58.7	117.5	70.5	184.3	156.9		mean+3SD	24.7	58.7	32.1	79.7	80.8	
mean-3SD	40.0	103.3	48.6	117.1	129.7		mean-3SD	14.6	35.9	17.2	51.9	49.7	
kit median	49.4	111.0	58.8	153.0	141.0		kit median	20.0	46.2	25.0	64.8	64.5	
mean/all kit median	2.51	2.33	2.42	2.29	2.20	2.35	mean/all kit median	1.00	1.00	1.00	1.00	1.00	1.00
CA15-3 Siemens/DPC Immulite 2500 (DPF/DP5) mean:							CA15-3 Ortho Clinical Vitros Eci (JJC/JJ1) mean:						
mean	46.4	110.7	59.2	155.0	139.0		mean	16.7	38.1	21.0	52.5	53.6	
SD	1.1	6.1	2.3	7.9	3.0		SD	0.9	3.3	1.4	5.0	4.3	
%CV	2.4%	5.5%	3.8%	5.1%	2.2%		%CV	5.4%	8.7%	6.6%	9.6%	8.1%	
N	3	3	3	3	3		N	4	4	4	4	4	
mean+3SD	49.8	129.0	66.0	178.8	148.0		mean+3SD	19.4	48.0	25.2	67.6	66.5	
mean-3SD	43.1	92.3	52.5	131.2	130.0		mean-3SD	14.0	28.1	16.9	37.4	40.6	
kit median	46.7	112.0	59.2	152.0	139.0		kit median	16.4	36.6	20.6	50.3	51.8	
mean/all kit median	2.36	2.34	2.41	2.36	2.13	2.32	mean/all kit median	0.85	0.80	0.85	0.80	0.82	0.83
CA15-3 Abbott Asxym & Architect (ABB & ABH/AB1) mean:							CA15-3 Roche Elecsys & E170 (BME & BMR/BM1) mean:						
mean	23.7	50.5	29.7	68.8	66.1		mean	17.0	37.1	20.9	50.0	49.8	
SD	1.6	3.2	2.4	6.7	5.3		SD	1.0	1.7	1.1	2.7	2.9	
%CV	6.9%	6.3%	8.0%	9.8%	7.9%		%CV	6.0%	4.6%	5.5%	5.4%	5.9%	
N	5	5	5	5	5		N	8	8	8	8	8	
mean+3SD	28.5	60.0	36.8	89.0	81.9		mean+3SD	20.1	42.2	24.3	58.1	58.6	
mean-3SD	18.8	40.9	22.6	48.6	50.4		mean-3SD	13.9	32.1	17.5	41.9	41.0	
kit median	23.9	51.0	28.7	66.4	64.5		kit median	17.0	37.3	21.0	49.6	49.3	
mean/all kit median	1.21	1.07	1.21	1.05	1.01	1.11	mean/all kit median	0.87	0.78	0.85	0.76	0.76	0.80
* Note: The two DPC results were not included in the calculation of the all kit means and medians because the results from those methods were very different from the results of all the others.							CA15-3 kit average: *see note						
							mean	20.1	45.1	24.8	61.5	60.9	
							SD	3.3	7.2	3.9	9.5	8.6	
							all kit median	19.7	47.3	24.6	65.8	65.2	

New York State Proficiency Test September 2007
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	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias	
CA19-9 all lab mean:							CA19-9 Beckman Unicel (BCU/BC1) mean:							
mean	34.8	36.2	57.9	80.9	84.6		mean	25.3	26.2	43.6	59.4	57.2		
SD	10.7	8.9	18.0	23.0	25.9		SD	1.6	0.7	2.0	4.9	4.4		
%CV	30.7%	24.7%	31.1%	28.5%	30.6%		%CV	6.3%	2.5%	4.6%	8.3%	7.6%		
mean+3SD	66.9	63.1	112.0	150.0	162.2		mean+3SD	30.2	28.2	49.6	74.2	70.2		
mean-3SD	2.8	9.4	3.8	11.8	7.0		mean-3SD	20.5	24.2	37.7	44.6	44.1		
N	58	58	58	58	58		N	7	7	7	7	7		
mean/all kit median	1.36	1.31	1.34	1.37	1.44	1.37	kit median	26.1	26.4	44.0	61.0	58.0		
							mean/all kit median	0.99	0.95	1.01	1.01	0.97	0.99	
CA19-9 Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:							CA19-9 Roche Elecsys & E170 (BME & BMR/BM1) mean:							
mean	44.4	44.2	73.7	101.3	108.5		mean	23.9	27.6	39.4	58.4	59.1		
SD	3.1	3.1	4.4	7.0	5.4		SD	1.0	1.1	1.3	2.2	2.6		
%CV	6.9%	7.0%	6.0%	6.9%	4.9%		%CV	4.4%	3.8%	3.2%	3.8%	4.4%		
mean+3SD	53.6	53.5	87.0	122.3	124.5		mean+3SD	27.1	30.8	43.2	65.2	66.9		
mean-3SD	35.2	35.0	60.4	80.2	92.4		mean-3SD	20.8	24.4	35.7	51.7	51.3		
N	30	30	30	30	30		N	8	8	8	8	8		
kit median	44.8	44.0	74.1	100.9	108.7		kit median	24.3	27.8	39.2	59.1	59.5		
mean/all kit median	1.74	1.60	1.71	1.72	1.85	1.72	mean/all kit median	0.94	1.00	0.92	0.99	1.01	0.97	
CA19-9 Fujirebio/Centocor (GAA/CE1) mean:							CA19-9 TOSOH A1A (TOM/TO1) mean:							
mean	37.2	38.1	64.5	89.8	83.9		mean	18.9	28.0	28.6	50.6	54.8		
N	2	2	2	2	2		N	2	2	2	2	2		
mean/all kit median	1.45	1.38	1.50	1.52	1.43	1.46	mean/all kit median	0.74	1.02	0.66	0.86	0.93	0.84	
CA19-9 Beckman Access (BCX/BC1) mean:							CA19-9 TOSOH ST A1A (TOM/TO2) mean:							
mean	26.1	27.6	44.8	62.5	59.7		mean	17.6	25.1	25.2	44.0	49.0		
SD	1.6	1.6	3.4	3.8	2.2		SD	0.4	0.9	0.2	1.6	1.8		
%CV	6.2%	5.8%	7.5%	6.2%	3.8%		%CV	2.0%	3.6%	0.8%	3.7%	3.6%		
mean+3SD	30.9	32.4	55.0	74.1	66.4		mean+3SD	18.7	27.8	25.8	48.8	54.3		
mean-3SD	21.2	22.7	34.7	51.0	53.0		mean-3SD	16.5	22.4	24.6	39.1	43.7		
N	4	4	4	4	4		N	3	3	3	3	3		
kit median	25.8	27.6	44.5	63.3	59.6		kit median	17.5	25.0	25.2	44.8	48.4		
mean/all kit median	1.02	1.00	1.04	1.06	1.02	1.03	mean/all kit median	0.69	0.91	0.59	0.75	0.83	0.75	
CA19-9 Siemens/DPC Immulite 2000 (DPD/DP5) mean:							CA19-9 kit average:							
mean	25.8	26.2	42.5	54.4	58.4		mean	27.4	30.4	45.3	65.0	66.3		
N	2	2	2	2	2		SD	9.0	6.9	16.5	19.9	19.9		
mean/all kit median	1.01	0.95	0.99	0.92	0.99	0.97	all kit median	25.6	27.6	43.1	58.9	58.8		

New York State Proficiency Test September 2007
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CEA all lab mean:							CEA Siemens/DPC Immulite 2000 (DPD/DP5) mean:							
mean	11.2	5.9	10.8	25.1	25.1		mean	13.0	6.6	12.2	28.9	28.7		
SD	1.6	0.8	1.4	3.5	3.8		SD	0.8	0.5	0.6	0.8	2.4		
%CV	13.8%	13.9%	13.2%	14.1%	15.3%		%CV	6.4%	7.4%	5.1%	2.9%	8.5%		
mean+3SD	15.9	8.3	15.0	35.7	36.6		mean+3SD	15.5	8.1	14.0	31.4	36.1		
mean-3SD	6.5	3.4	6.5	14.5	13.6		mean-3SD	10.5	5.2	10.3	26.4	21.4		
N	176	176	174	175	176		N	13	13	12	12	13		
mean/all kit median	0.97	0.97	0.96	0.97	0.97	0.97	kit median	12.9	6.6	12.2	29.0	28.1		
							mean/all kit median	1.13	1.10	1.08	1.12	1.11	1.11	
CEA TOSOH ST AIA (TOM/TO2) mean:							CEA Siemens/DPC Immulite 1000 (DPB/DP5) mean:							
mean	14.7	7.7	13.9	32.4	33.4		mean	12.4	6.1	12.1	30.3	29.3		
SD	0.5	0.3	0.3	0.4	0.5		SD	0.3	0.2	0.6	1.2	1.7		
%CV	3.2%	4.4%	1.9%	1.1%	1.6%		%CV	2.0%	2.8%	5.1%	3.9%	5.9%		
mean+3SD	16.1	8.7	14.7	33.5	35.0		mean+3SD	13.1	6.6	14.0	33.8	34.5		
mean-3SD	13.3	6.7	13.1	31.3	31.7		mean-3SD	11.6	5.6	10.2	26.7	24.1		
N	4	4	3	4	4		N	4	4	4	4	4		
kit median	14.8	7.8	14.0	32.5	33.3		kit median	12.4	6.1	11.9	30.4	29.1		
mean/all kit median	1.28	1.27	1.24	1.25	1.29	1.27	mean/all kit median	1.07	1.01	1.08	1.17	1.13	1.09	
CEA TOSOH AIA (TOM/TO1) mean:							CEA Siemens/Bayer ADVIA-Centaur & ACS-180 (COB & COS/BA1) mean:							
mean	12.7	6.8	11.8	28.7	32.0		mean	12.0	6.3	11.5	26.7	27.1		
SD	0.7	0.3	0.6	1.4	1.8		SD	0.7	0.4	0.7	1.7	1.6		
%CV	5.2%	5.1%	5.0%	4.9%	5.6%		%CV	6.0%	6.3%	5.8%	6.5%	5.8%		
mean+3SD	14.7	7.8	13.5	32.9	37.3		mean+3SD	14.1	7.5	13.5	31.9	31.8		
mean-3SD	10.7	5.8	10.0	24.5	26.7		mean-3SD	9.8	5.1	9.5	21.5	22.4		
N	3	3	3	3	3		N	61	60	61	61	60		
kit median	12.4	6.6	12.0	28.6	31.4		kit median	12.1	6.3	11.6	26.8	27.0		
mean/all kit median	1.10	1.13	1.05	1.11	1.24	1.12	mean/all kit median	1.04	1.05	1.03	1.03	1.05	1.04	
CEA Siemens/DPC Immulite 2500 (DPF/DP5) mean:							CEA Abbott Imx (ABM/AB1) mean:							
mean	12.9	6.5	12.3	30.5	29.2		mean	11.7	6.0	11.4	26.1	26.2		
SD	0.3	0.1	0.2	0.7	1.0		N	2	2	2	2	2		
%CV	2.3%	1.5%	1.2%	2.2%	3.4%		mean/all kit median	1.01	0.99	1.01	1.01	1.01	1.01	
mean+3SD	13.8	6.8	12.8	32.5	32.2									
mean-3SD	12.0	6.2	11.9	28.4	26.2									
N	3	3	3	3	3									
kit median	12.9	6.5	12.3	30.7	29.2									
mean/all kit median	1.12	1.08	1.10	1.18	1.13	1.12								

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
CEA Abbott Asxym (ABB/AB1) mean:							CEA Beckman Access (BCX/BC1) mean:						
mean	11.2	5.7	11.1	25.8	25.6		mean	10.0	5.4	9.8	22.4	22.0	
SD	0.9	0.4	0.8	1.7	1.6		SD	0.4	0.2	0.3	0.9	0.9	
%CV	7.7%	6.5%	7.3%	6.6%	6.3%		%CV	3.7%	4.0%	3.0%	3.9%	3.9%	
mean+3SD	13.9	6.9	13.5	30.9	30.3		mean+3SD	11.1	6.1	10.7	25.0	24.6	
mean-3SD	8.6	4.6	8.7	20.7	20.8		mean-3SD	8.8	4.8	8.9	19.8	19.4	
N	18	18	18	18	18		N	16	16	16	16	16	
kit median	11.2	5.7	11.1	25.3	25.7		kit median	10.0	5.3	9.9	22.6	22.1	
mean/all kit median	0.98	0.95	0.99	0.99	0.99	0.98	mean/all kit median	0.86	0.90	0.87	0.87	0.85	0.87
CEA Abbott Architect (ABH/AB1) mean:							CEA Roche E170 (BMR/BM1) mean:						
mean	11.4	5.5	10.7	24.6	24.2		mean	8.8	4.6	8.5	19.6	19.2	
SD	0.5	0.1	0.6	0.4	0.9		SD	0.5	0.3	0.6	1.4	1.2	
%CV	4.6%	1.8%	5.7%	1.5%	3.8%		%CV	5.8%	7.4%	7.5%	7.2%	6.5%	
mean+3SD	13.0	5.8	12.5	25.8	26.9		mean+3SD	10.4	5.6	10.4	23.8	23.0	
mean-3SD	9.8	5.2	8.8	23.5	21.5		mean-3SD	7.3	3.6	6.6	15.4	15.5	
N	3	3	3	3	3		N	13	13	13	13	13	
kit median	11.2	5.5	10.8	24.8	24.4		kit median	8.8	4.6	8.4	19.6	19.0	
mean/all kit median	0.99	0.91	0.95	0.95	0.94	0.95	mean/all kit median	0.77	0.76	0.76	0.76	0.74	0.76
CEA Ortho Clinical Vitros Eci (JJC/JJ1) mean:							CEA Roche Elecsys (BME/BM1) mean:						
mean	11.0	6.1	10.6	23.9	23.7		mean	8.8	4.5	8.5	19.5	19.4	
SD	0.8	0.8	0.8	1.4	1.1		SD	0.6	0.3	0.7	1.2	1.2	
%CV	7.5%	12.9%	7.3%	5.8%	4.5%		%CV	6.8%	7.5%	7.7%	6.3%	6.0%	
mean+3SD	13.4	8.4	12.9	28.0	26.9		mean+3SD	10.6	5.6	10.5	23.1	22.8	
mean-3SD	8.5	3.7	8.3	19.8	20.4		mean-3SD	7.0	3.5	6.5	15.8	15.9	
N	9	9	9	9	9		N	14	14	14	14	14	
kit median	10.6	5.7	10.3	23.4	23.3		kit median	8.9	4.6	8.5	19.3	19.3	
mean/all kit median	0.95	1.01	0.95	0.92	0.92	0.95	mean/all kit median	0.76	0.75	0.76	0.75	0.75	0.75
CEA Beckman Unicel (BCU/BC1) mean:							CEA kit average:						
mean	10.0	5.5	9.6	22.3	21.7		mean	11.5	6.0	11.0	25.8	25.8	
SD	0.6	0.2	0.6	0.7	1.2		SD	1.7	0.8	1.5	4.0	4.4	
%CV	6.1%	4.3%	6.7%	3.2%	5.7%		all kit median	11.5	6.0	11.2	25.9	25.9	
mean+3SD	11.9	6.2	11.5	24.5	25.4								
mean-3SD	8.2	4.8	7.6	20.2	18.0								
N	13	13	13	13	13								
kit median	10.1	5.5	9.6	22.4	21.5								
mean/all kit median	0.87	0.90	0.85	0.86	0.84	0.87							

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
AFP all lab mean:							AFP Roche Elecsys (BME/BM1) mean:						
mean	12.0	13.9	17.8	29.7	29.6		mean	11.8	13.7	17.5	29.9	30.0	
SD	1.1	1.2	1.4	2.3	2.6		SD	0.8	1.2	1.2	2.4	2.1	
%CV	8.9%	8.3%	7.9%	7.7%	8.7%		%CV	7.2%	8.9%	6.9%	8.1%	7.0%	
mean+3SD	15.2	17.4	22.0	36.5	37.3		mean+3SD	14.3	17.4	21.1	37.2	36.3	
mean-3SD	8.7	10.4	13.5	22.8	21.9		mean-3SD	9.2	10.1	13.8	22.6	23.7	
N	101	101	101	101	101		N	6	6	6	6	6	
mean/target	1.04	1.04	1.05	1.03	1.02	1.04	kit median	11.8	13.9	17.1	29.8	29.7	
							mean/target	1.02	1.02	1.03	1.04	1.03	1.03
AFP Siemens/Bayer ADVIA-Centaur & ACS-180 (COB & COS/BA1) mean:							AFP Abbott Asxym (ABB/AB1) mean:						
mean	13.0	14.8	19.0	31.1	31.3		mean	11.9	13.7	17.7	29.5	29.5	
SD	0.8	1.1	1.1	1.7	1.8		SD	0.7	1.2	1.1	1.8	1.7	
%CV	6.2%	7.3%	5.8%	5.4%	5.8%		%CV	5.5%	8.6%	6.1%	6.1%	5.7%	
mean+3SD	15.4	18.0	22.3	36.2	36.7		mean+3SD	13.9	17.2	21.0	35.0	34.5	
mean-3SD	10.6	11.5	15.6	26.1	25.8		mean-3SD	10.0	10.2	14.5	24.1	24.4	
N	24	25	25	25	25		N	12	12	12	12	12	
kit median	13.1	15.1	19.2	31.2	30.8		kit median	11.9	14.2	17.4	29.4	29.2	
mean/target	1.13	1.10	1.12	1.08	1.07	1.10	mean/target	1.04	1.02	1.05	1.03	1.01	1.03
AFP Roche E170 (BMR/BM1) mean:							AFP Beckman Access (BCX/BC1) mean:						
mean	12.5	14.5	18.6	31.5	31.5		mean	11.8	13.7	17.1	29.8	31.0	
SD	0.8	0.8	1.1	1.7	2.1		SD	0.8	0.9	0.8	1.1	1.2	
%CV	6.7%	5.4%	6.0%	5.4%	6.7%		%CV	7.1%	6.6%	4.5%	3.8%	3.9%	
mean+3SD	15.0	16.8	21.9	36.6	37.8		mean+3SD	14.3	16.5	19.4	33.2	34.5	
mean-3SD	10.0	12.1	15.2	26.4	25.2		mean-3SD	9.3	11.0	14.8	26.4	27.4	
N	10	10	10	10	10		N	3	3	3	3	3	
kit median	12.3	14.6	18.6	31.3	31.2		kit median	11.5	13.6	16.9	30.3	31.5	
mean/target	1.09	1.08	1.10	1.09	1.08	1.09	mean/target	1.02	1.02	1.01	1.03	1.06	1.03
AFP Siemens/DPC Immulite 1000 (DPB/DP5) mean:							AFP TOSOH ST A1A (TOM/TO2) mean:						
mean	12.1	13.8	18.0	30.6	29.6		mean	11.8	13.9	17.3	29.5	28.6	
SD	0.4	0.4	0.3	1.0	2.0		SD	1.0	0.7	1.0	1.7	1.7	
%CV	3.1%	2.9%	1.6%	3.2%	6.9%		%CV	8.5%	5.2%	5.8%	5.7%	5.9%	
mean+3SD	13.3	15.0	18.8	33.5	35.7		mean+3SD	14.9	16.1	20.3	34.5	33.7	
mean-3SD	11.0	12.6	17.1	27.6	23.5		mean-3SD	8.8	11.7	14.2	24.5	23.5	
N	3	3	3	3	3		N	3	3	3	3	3	
kit median	12.3	13.7	17.8	30.1	29.2		kit median	11.7	14.1	17.4	29.8	28.7	
mean/target	1.06	1.03	1.06	1.06	1.02	1.04	mean/target	1.03	1.04	1.02	1.02	0.98	1.02

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
AFP Siemens/DPC Immulite 2000 (DPD/DP5) mean:							AFP Ortho Clinical Vitros Eci (JJC/JJ1) mean:						
mean	11.6	13.7	17.3	28.6	28.0		mean	9.9	11.1	14.2	23.3	23.9	
SD	0.8	0.9	1.1	1.7	2.0		SD	0.2	0.2	0.2	0.4	0.6	
%CV	6.7%	6.3%	6.5%	5.9%	7.2%		%CV	2.0%	1.4%	1.6%	1.7%	2.6%	
mean+3SD	14.0	16.3	20.6	33.7	34.1		mean+3SD	10.5	11.6	14.9	24.5	25.7	
mean-3SD	9.3	11.1	13.9	23.5	21.9		mean-3SD	9.3	10.7	13.5	22.1	22.0	
N	21	21	21	21	21		N	3	3	3	3	3	
kit median	11.5	13.8	17.3	28.6	28.3		kit median	9.9	11.1	14.1	23.1	24.0	
mean/target	1.01	1.03	1.02	0.99	0.96	1.00	mean/target	0.86	0.83	0.84	0.81	0.82	0.83
AFP Beckman Unicel (BCU/BC1) mean:							AFP kit average:						
mean	11.0	13.3	16.9	28.3	28.5		mean	11.7	13.6	17.2	29.1	28.8	
SD	0.8	0.9	0.9	1.7	1.7		SD	0.8	0.9	1.3	2.2	2.4	
%CV	6.8%	6.5%	5.4%	5.9%	6.0%		all kit median	11.8	13.7	17.3	29.5	29.5	
mean+3SD	13.3	15.9	19.7	33.2	33.6								
mean-3SD	8.7	10.7	14.2	23.3	23.3								
N	11	11	11	11	11		AFP	TM171	TM172	TM173	TM174	TM175	
kit median	11.0	13.3	17.0	28.6	28.8	0.98	*IS target	11.5	13.4	16.9	28.8	29.1	
mean/target	0.96	0.99	1.00	0.98	0.98		SD (+/-)	0.5	0.4	0.2	0.4	0.8	
							% CV	4.4%	3.2%	1.3%	1.3%	2.6%	
							high (30%)	15.0	17.4	22.0	37.4	37.8	
							low (30%)	8.1	9.4	11.8	20.2	20.4	
							* target value from a traceable AFP standard						
AFP Siemens/DPC Immulite 2500 (DPF/DP5) mean:													
mean	11.6	13.2	16.3	27.8	25.6								
N	2	2	2	2	2								
mean/target	1.01	0.99	0.96	0.96	0.88	0.96							

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
PSA all lab mean:							PSA Beckman Unicel (BCU/BC2) mean:						
mean	1.6	3.2	7.2	16.4	17.0		mean	1.7	3.4	7.6	17.4	17.6	
SD	0.1	0.3	0.6	1.4	1.4		SD	0.1	0.2	0.3	0.6	0.8	
%CV	9.0%	8.5%	8.2%	8.7%	8.3%		%CV	6.1%	4.8%	4.2%	3.6%	4.8%	
mean+3SD	2.0	4.0	9.0	20.7	21.3		mean+3SD	2.0	3.8	8.6	19.3	20.2	
mean-3SD	1.2	2.4	5.4	12.1	12.8		mean-3SD	1.4	2.9	6.7	15.5	15.1	
N	271	270	269	271	267		N	18	18	18	18	18	
mean/target	1.07	1.07	1.06	1.04	1.09	1.07	kit median	1.7	3.4	7.7	17.3	17.8	
							mean/target	1.13	1.12	1.12	1.11	1.13	1.12
PSA Beckman Access (BCX/BC2) mean:							PSA TOSOH AIA (TOM/TO1) mean:						
mean	1.7	3.5	8.0	18.1	18.5		mean	1.7	3.5	7.5	17.2	17.0	
SD	0.1	0.2	0.3	0.7	0.5		SD	0.2	0.3	0.7	1.5	1.4	
%CV	5.0%	4.4%	4.2%	3.9%	2.9%		%CV	9.6%	8.5%	9.8%	8.7%	8.0%	
mean+3SD	2.0	4.0	9.0	20.2	20.0		mean+3SD	2.2	4.4	9.6	21.6	21.1	
mean-3SD	1.5	3.0	7.0	16.0	16.9		mean-3SD	1.2	2.6	5.3	12.7	12.9	
N	38	38	38	38	38		N	8	8	8	8	8	
kit median	1.7	3.5	7.9	18.2	18.4		kit median	1.7	3.4	7.3	16.7	16.9	
mean/target	1.15	1.16	1.17	1.15	1.18	1.16	mean/target	1.14	1.16	1.10	1.09	1.09	1.12

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
PSA Abbott Asxym & Imx (ABB & ABM/AB1) mean:							PSA Siemens/Bayer ADVIA-Centaur & ACS-180 (COB & COS/BA1) mean:						
mean	1.7	3.3	7.6	17.2	17.0		mean	1.6	3.2	7.0	15.9	16.2	
SD	0.1	0.3	0.5	1.0	1.0		SD	0.1	0.2	0.4	0.9	1.0	
%CV	6.8%	8.3%	7.1%	5.5%	5.8%		%CV	6.9%	5.6%	6.1%	5.8%	6.3%	
mean+3SD	2.0	4.1	9.2	20.0	19.9		mean+3SD	2.0	3.7	8.3	18.7	19.3	
mean-3SD	1.3	2.5	5.9	14.3	14.0		mean-3SD	1.3	2.7	5.8	13.2	13.1	
N	24	24	24	24	24		N	60	60	60	59	59	
kit median	1.7	3.3	7.5	17.1	17.1		kit median	1.6	3.2	7.1	16.0	16.1	
mean/target	1.11	1.10	1.11	1.10	1.09	1.10	mean/target	1.09	1.06	1.03	1.02	1.04	1.05
PSA TOSOH ST AIA (TOM/TO2) mean:							PSA Roche E170 (BMR/BM1) mean:						
mean	1.7	3.4	7.4	16.7	16.0		mean	1.6	3.2	7.2	16.3	16.5	
SD	0.2	0.2	0.5	1.3	0.9		SD	0.1	0.2	0.3	0.8	0.7	
%CV	9.0%	6.4%	7.2%	7.7%	5.7%		%CV	5.2%	5.7%	4.6%	4.8%	4.4%	
mean+3SD	2.1	4.0	9.0	20.5	18.7		mean+3SD	1.8	3.7	8.2	18.6	18.6	
mean-3SD	1.2	2.8	5.8	12.8	13.3		mean-3SD	1.3	2.6	6.2	13.9	14.3	
N	4	4	4	4	4		N	17	17	17	17	17	
kit median	1.7	3.4	7.4	16.7	16.0		kit median	1.6	3.1	7.2	16.3	16.6	
mean/target	1.12	1.13	1.09	1.06	1.03	1.09	mean/target	1.06	1.05	1.06	1.04	1.06	1.05
PSA Dade Behring Dimension (DUD/DA1) mean:							PSA Ortho Clinical Vitros Eci (JJC/JJ1) mean:						
mean	1.6	3.1	7.1	16.4	18.7		mean	1.6	3.2	6.6	15.1	16.0	
SD	0.1	0.2	0.3	0.9	1.0		SD	0.1	0.2	0.4	0.8	1.0	
%CV	5.9%	5.6%	4.8%	5.4%	5.3%		%CV	6.2%	6.0%	6.0%	5.5%	6.1%	
mean+3SD	1.9	3.7	8.1	19.1	21.7		mean+3SD	1.9	3.8	7.8	17.6	18.9	
mean-3SD	1.3	2.6	6.1	13.8	15.7		mean-3SD	1.3	2.7	5.4	12.6	13.0	
N	26	26	26	26	26		N	13	13	13	13	13	
kit median	1.6	3.2	7.1	16.2	18.6		kit median	1.7	3.2	6.5	14.9	16.2	
mean/target	1.05	1.04	1.05	1.05	1.20	1.08	mean/target	1.08	1.08	0.97	0.96	1.02	1.02
PSA Abbott Architect (ABH/AB1) mean:							PSA Siemens/DPC Immulite 1000 (DPB/DP5) mean:						
mean	1.5	3.1	7.0	17.1	16.6		mean	1.4	2.9	6.9	15.5	17.5	
SD	0.1	0.1	0.1	0.9	0.5		SD	0.1	0.2	0.5	1.9	1.1	
%CV	5.3%	2.9%	1.8%	5.0%	3.1%		%CV	5.3%	5.5%	7.6%	12.2%	6.6%	
mean+3SD	1.8	3.4	7.4	19.7	18.1		mean+3SD	1.7	3.4	8.5	21.2	20.9	
mean-3SD	1.3	2.8	6.6	14.6	15.0		mean-3SD	1.2	2.4	5.3	9.8	14.0	
N	6	6	6	6	6		N	7	7	6	7	6	
kit median	1.6	3.1	7.1	17.6	16.7		kit median	1.4	2.9	7.0	14.9	17.9	
mean/target	1.02	1.03	1.03	1.09	1.06	1.05	mean/target	0.95	0.96	1.02	0.99	1.12	1.01

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
PSA Siemens/DPC Immulite 1000/2000/2500 3G (DPB, D & F/DP6) mean:							PSA Roche Elecsys (BME/BM1) mean:						
mean	1.5	3.1	6.9	15.5	16.8		mean	1.5	2.9	6.7	14.8	15.1	
SD	0.2	0.3	0.8	1.1	2.1		SD	0.1	0.2	0.5	1.1	1.1	
%CV	12.2%	11.0%	11.0%	7.2%	12.8%		%CV	8.0%	7.4%	7.2%	7.6%	7.3%	
mean+3SD	2.0	4.1	9.1	18.9	23.2		mean+3SD	1.8	3.5	8.1	18.2	18.4	
mean-3SD	0.9	2.1	4.6	12.2	10.3		mean-3SD	1.1	2.2	5.3	11.5	11.7	
N	8	8	8	8	8		N	20	20	20	20	20	
kit median	1.5	3.2	6.8	15.3	16.1		kit median	1.5	2.9	6.6	14.9	15.1	
mean/target	0.99	1.03	1.01	0.99	1.07	1.02	mean/target	0.99	0.96	0.99	0.94	0.96	0.97
PSA Siemens/DPC Immulite 2000 (DPD/DP5) mean:							PSA kit average:						
mean	1.4	2.9	6.6	15.0	17.2		mean	1.6	3.2	7.1	16.2	16.9	
SD	0.1	0.2	0.5	1.1	1.3		SD	0.1	0.2	0.4	1.1	1.0	
%CV	7.9%	7.8%	7.2%	7.5%	7.8%		all kit median	1.6	3.2	7.0	16.3	16.8	
mean+3SD	1.7	3.6	8.1	18.4	21.2								
mean-3SD	1.1	2.2	5.2	11.6	13.2								
N	19	19	19	19	19								
kit median	1.4	2.8	6.6	15.0	17.2								
mean/target	0.93	0.96	0.98	0.96	1.10	0.98							
PSA Siemens/DPC Immulite 2500 (DPF/DP5) mean:							PSA						
mean	1.4	2.8	6.6	14.2	16.3			TM171	TM172	TM173	TM174	TM175	
N	2	2	2	2	2		* Assigned IS target	1.5	3.0	6.8	15.7	15.6	
mean/target	0.90	0.92	0.97	0.90	1.04	0.95	SD (+/-)	0.04	0.1	0.3	1.1	0.7	
							% CV	2.4%	2.6%	4.7%	7.1%	4.8%	
							high (25%)			8.5	19.6	19.5	
							low (25%)			5.1	11.8	11.7	
							high (30%)	2.0	3.9				
							low (30%)	1.1	2.1				
							* target value from a traceable PSA standard						

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias
free PSA all lab mean:							free PSA Dade Behring Dimension (DUD/DA1) mean:						
mean	0.34	0.35	2.09	3.31	3.46		mean	0.28	0.30	1.68	2.71	3.19	
SD	0.07	0.07	0.37	0.55	0.56		SD	0.05	0.03	0.10	0.20	0.23	
%CV	19.7%	19.4%	17.9%	16.7%	16.2%		%CV	17.5%	11.1%	5.8%	7.4%	7.1%	
mean+3SD	0.53	0.56	3.20	4.96	5.14		mean+3SD	0.42	0.40	1.97	3.31	3.87	
mean-3SD	0.14	0.15	0.97	1.65	1.77		mean-3SD	0.13	0.20	1.39	2.11	2.50	
N	66	67	73	67	68		N	5	5	5	5	5	
mean/target	1.20	1.21	1.20	1.17	1.21	1.20	kit median	0.27	0.29	1.71	2.66	3.14	
							mean/target	0.99	1.03	0.97	0.96	1.11	1.01
free PSA Beckman Access (BCX/BC2) mean:							free PSA Abbott Asxym (ABB/AB1) mean:						
mean	0.40	0.42	2.42	3.85	3.98		mean	0.25	0.28	1.69	2.68	2.89	
SD	0.02	0.04	0.16	0.20	0.22		SD	0.01	0.01	0.10	0.05	0.21	
%CV	4.1%	8.7%	6.4%	5.2%	5.5%		%CV	2.9%	2.6%	5.6%	1.9%	7.3%	
mean+3SD	0.45	0.53	2.88	4.44	4.64		mean+3SD	0.27	0.30	1.98	2.82	3.53	
mean-3SD	0.35	0.31	1.95	3.25	3.32		mean-3SD	0.22	0.25	1.40	2.53	2.25	
N	15	17	19	17	17		N	2	2	3	2	2	
kit median	0.40	0.41	2.37	3.86	3.95		kit median	0.25	0.28	1.68	2.68	2.89	
mean/target	1.43	1.46	1.39	1.36	1.39	1.41	mean/target	0.88	0.95	0.97	0.95	1.01	0.95
free PSA Beckman Unicel (BCU/BC2) mean:							free PSA Siemens/DPC Immulite 2000 (DPD/DP5) mean:						
mean	0.39	0.40	2.49	3.84	3.99		mean	0.26	0.27	1.68	2.69	2.87	
SD	0.03	0.03	0.14	0.18	0.24		SD	0.03	0.03	0.11	0.17	0.42	
%CV	8.6%	8.7%	5.8%	4.6%	6.0%		%CV	11.5%	10.5%	6.4%	6.4%	14.6%	
mean+3SD	0.49	0.51	2.92	4.37	4.71		mean+3SD	0.35	0.35	2.00	3.21	4.13	
mean-3SD	0.29	0.30	2.05	3.31	3.28		mean-3SD	0.17	0.19	1.36	2.17	1.61	
N	15	15	15	15	15		N	10	10	10	10	10	
kit median	0.40	0.40	2.50	3.87	4.03		kit median	0.26	0.28	1.66	2.66	2.75	
mean/target	1.38	1.38	1.43	1.36	1.40	1.39	mean/target	0.92	0.93	0.96	0.95	1.00	0.95
free PSA Roche Elecsys (BME/BM1) mean:							free PSA kit average:						
mean	0.31	0.32	1.96	3.08	3.12		mean	0.31	0.33	1.95	3.09	3.28	
SD	0.01	0.02	0.10	0.10	0.08		SD	0.06	0.06	0.36	0.53	0.50	
%CV	4.0%	5.1%	5.1%	3.2%	2.4%		all kit median	0.29	0.30	1.75	2.81	3.12	
mean+3SD	0.35	0.37	2.26	3.37	3.35								
mean-3SD	0.27	0.27	1.66	2.78	2.89								
N	9	9	10	9	9								
kit median	0.31	0.33	1.97	3.04	3.10								
mean/target	1.11	1.11	1.12	1.09	1.09	1.10							
free PSA Roche E170 (BMR/BM1) mean:							free PSA	TM171	TM172	TM173	TM174	TM175	
mean	0.29	0.30	1.75	2.81	2.90		* IS target	0.28	0.29	1.74	2.83	2.86	
SD	0.01	0.01	0.12	0.15	0.16		SD (+/-)	0.01	0.005	0.03	0.06	0.06	
%CV	5.1%	4.8%	6.8%	5.5%	5.5%		% CV	2.9%	1.7%	1.9%	2.1%	1.9%	
mean+3SD	0.34	0.34	2.10	3.27	3.38		high (30%)	0.36	0.38	2.26	3.68	3.72	
mean-3SD	0.25	0.25	1.39	2.34	2.43		low (30%)	0.20	0.20	1.22	1.98	2.00	
N	9	9	11	9	10		* target value from a traceable free PSA standard.						
kit median	0.29	0.30	1.74	2.88	2.99								
mean/target	1.04	1.02	1.00	0.99	1.02	1.02							

New York State Proficiency Test September 2007
Summary of Results

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias	
%free PSA all lab mean:							% free PSA DPD/DP5 mean:							
mean	20.5	10.7	28.1	19.5	19.4		mean	19.4	9.4	26.4	18.4	16.8		
SD	2.7	1.5	3.4	2.1	2.5		SD	2.2	1.4	2.0	1.1	2.6		
%CV	13.3%	13.7%	11.9%	10.8%	12.9%		%CV	11.2%	15.4%	7.5%	5.7%	15.6%		
mean+3SD	28.7	15.2	38.2	25.8	26.9		mean+3SD	25.9	13.7	32.3	21.5	24.7		
mean-3SD	12.3	6.3	18.0	13.1	11.9		mean-3SD	12.9	5.1	20.4	15.2	8.9		
N	42	51	63	44	44		N	6	7	7	7	7		
mean/target	1.11	1.11	1.09	1.05	1.04	1.08	kit median	19.3	9.0	26.8	18.0	15.6		
							mean/target	1.05	0.97	1.02	0.99	0.90	0.99	
% free PSA BCU & BCX/BC2 mean:							% free PSA DUD/DA1 mean:							
mean	22.8	11.8	30.6	21.5	21.7		mean	18.5	10.0	24.0	16.9	17.5		
SD	1.3	1.0	2.3	1.4	1.8		SD	2.7	0.5	1.7	1.4	1.2		
%CV	5.7%	8.8%	7.5%	6.7%	8.5%		%CV	14.4%	4.9%	7.1%	8.5%	6.8%		
mean+3SD	26.7	14.9	37.6	25.8	27.2		mean+3SD	26.4	11.5	29.1	21.2	21.1		
mean-3SD	18.9	8.6	23.7	17.2	16.2		mean-3SD	10.5	8.5	18.9	12.6	13.9		
N	16	23	29	15	15		N	4	4	4	4	4		
kit median	23.0	12.0	30.0	21.4	22.0		kit median	17.9	9.8	23.6	16.4	17.2		
mean/target	1.23	1.21	1.19	1.16	1.17	1.19	mean/target	1.00	1.03	0.93	0.91	0.94	0.96	
% free PSA BME/BM1 mean:							% free PSA AB1/AB1 mean:							
mean	20.2	11.0	28.3	20.0	20.4		mean	15.3	8.3	23.5	17.5	19.6		
SD	0.8	0.6	1.7	0.8	0.6		SD	1.8	0.4	1.8				
%CV	4.0%	5.8%	6.0%	4.1%	3.0%		%CV	12.0%	4.3%	7.7%				
mean+3SD	22.7	12.9	33.4	22.4	22.2		mean+3SD	20.8	9.3	28.9				
mean-3SD	17.8	9.1	23.2	17.5	18.6		mean-3SD	9.8	7.2	18.1				
N	5	6	8	7	7		N	2	2	3	1	1		
kit median	20.5	10.9	28.1	20.0	20.0		kit median	15.3	8.3	23.0				
mean/target	1.09	1.13	1.10	1.08	1.10	1.10	mean/target	0.83	0.85	0.91			0.86	
% free PSA BMR/BM1 mean:							% free PSA kit average:							
mean	18.6	9.6	24.8	17.6	17.8		mean	19.1	10.0	26.3	18.6	19.0		
SD	1.1	0.5	1.6	0.9	0.8		SD	2.5	1.2	2.8	1.8	1.9		
%CV	6.0%	5.6%	6.4%	4.9%	4.3%		all kit median	19.0	9.8	25.6	18.0	18.7		
mean+3SD	22.0	11.2	29.6	20.2	20.1									
mean-3SD	15.3	8.0	20.0	15.0	15.5									
N	8	8	11	9	9									
kit median	18.9	9.6	25.0	17.9	18.0		% free PSA	TM171	TM172	TM173	TM174	TM175		
mean/target	1.01	0.99	0.96	0.95	0.96	0.97	IS target	18.5%	9.7%	25.8%	18.5%	18.6%		

	TM171	TM172	TM173	TM174	TM175	Average bias		TM171	TM172	TM173	TM174	TM175	Average bias	
complexed PSA all lab mean:							PSA complexed/total all lab mean:							
mean	1.3	2.9	5.4	13.2	13.1		mean	76.0	88.7	74.2	79.9	76.3		
SD	0.1	0.2	0.3	0.8	0.9		SD	10.4	7.0	4.8	5.6	4.7		
%CV	9.7%	7.3%	6.2%	6.1%	6.5%		%CV	13.7%	7.9%	6.5%	7.1%	6.2%		
mean+3SD	1.7	3.6	6.4	15.7	15.7		mean+3SD	107.3	109.8	88.7	96.8	90.5		
mean-3SD	0.9	2.3	4.4	10.8	10.5		mean-3SD	44.7	67.6	59.7	62.9	62.2		
N	11	11	11	11	11		N	10	10	10	9	10		
all median	1.3	2.9	5.4	13.0	13.0		all median	78.9	88.9	73.7	80.6	76.5		