Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	CA125					
Method			All lab			
mean	59.9	20.8	36.3	40.8	30.8	
SD	6.4	3.4	4.8	5.0	4.5	
%CV	10.8%	16.2%	13.3%	12.2%	14.5%	
mean+3SD	79.2	30.9	50.7	55.7	44.1	
mean-3SD	40.6	10.7	21.8	25.8	17.4	
N	109	118	114	111	115	
mean/all kit median	0.95	1.02	0.97	0.98	1.01	0.98

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	CA125					
Method	COB	BA1	Siemens ADVIA-Centaur			
mean	61.7	21.5	37.3	42.5	31.5	
SD	3.0	1.1	1.5	2.1	1.7	
%CV	4.8%	5.2%	4.0%	4.9%	5.4%	
mean+3SD	70.6	24.8	41.8	48.7	36.6	
mean-3SD	52.8	18.1	32.8	36.2	26.4	
N	34	34	34	34	34	
kit median	61.7	21.6	37.3	42.3	31.5	
mean/all kit median	0.98	1.05	1.00	1.02	1.03	1.01

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	ABH	AB1	Abbott Architect			
mean	83.3	28.2	49.6	56.4	41.9	
N	2	2	2	2	2	
mean/all kit median	1.32	1.38	1.32	1.35	1.37	1.35

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	DPB	DP5	Siemens Immulite 1000			
mean	64.7	19.7	37.7	40.8	29.6	
N	2	2	2	2	2	
mean/all kit median	1.02	0.96	1.00	0.98	0.97	0.99

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	TOM	TO1	TOSOH ST-A1A			
mean	89.0	29.1	52.1	60.4	44.3	
SD	2.9	1.1	1.9	3.2	2.0	
%CV	3.3%	3.6%	3.6%	5.4%	4.5%	
mean+3SD	97.8	32.2	57.7	70.1	50.2	
mean-3SD	80.2	25.9	46.5	50.7	38.3	
N	7	7	7	7	7	
kit median	89.7	29.0	52.3	60.2	43.3	
mean/all kit median	1.41	1.42	1.39	1.45	1.45	1.42

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	BCU/BCX	BC1	Beckman Unicel & Access/2			
mean	60.4	19.3	35.3	40.1	29.7	
SD	2.7	0.8	1.2	1.7	0.9	
%CV	4.4%	3.9%	3.3%	4.3%	3.1%	
mean+3SD	68.3	21.6	38.8	45.2	32.4	
mean-3SD	52.4	17.1	31.8	35.0	26.9	
N	10	10	10	10	10	
kit median	61.0	19.5	35.3	40.6	29.4	
mean/all kit median	0.96	0.95	0.94	0.96	0.97	0.96

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	ABB	AB1	Abbott Axsym			
mean	69.6	24.2	42.0	48.2	36.5	
SD	6.7	1.8	3.1	2.8	3.5	
%CV	9.6%	7.3%	7.4%	5.8%	9.6%	
mean+3SD	89.7	29.6	51.2	56.6	47.1	
mean-3SD	49.5	18.9	32.7	39.8	26.0	
N	12	12	12	12	12	
kit median	71.7	24.8	42.2	48.6	37.3	
mean/all kit median	1.10	1.19	1.12	1.16	1.19	1.15

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	DPD	DP5	Siemens Immulite 2000			
mean	57.6	18.0	33.2	37.1	27.9	
SD	2.5	1.0	1.6	1.8	1.7	
%CV	4.3%	5.8%	5.0%	4.9%	5.9%	
mean+3SD	65.1	21.2	38.1	42.5	32.9	
mean-3SD	50.2	14.9	28.2	31.6	22.9	
N	24	24	24	23	24	
kit median	57.9	18.0	33.6	37.3	27.5	
mean/all kit median	0.91	0.88	0.89	0.89	0.91	0.90

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	JJC	JJ1	Ortho Clinical Diagnostics Vitros Eci/Q			
mean	65.2	21.2	38.3	44.1	32.1	
SD	3.3	1.6	1.8	2.5	1.7	
%CV	5.1%	7.7%	4.7%	5.6%	5.4%	
mean+3SD	75.2	26.1	43.7	51.5	37.3	
mean-3SD	55.1	16.4	32.9	36.7	26.9	
N	7	7	7	7	7	
kit median	65.0	21.2	38.0	43.8	32.0	
mean/all kit median	1.03	1.04	1.02	1.06	1.05	1.04

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CA125					
Method	BME/BMR	BM1	Roche Elecsys/Cobas e411 & E170/e601			
mean	51.2	18.2	31.3	35.6	26.7	
SD	3.0	1.6	2.3	2.4	2.0	
%CV	5.8%	8.5%	7.2%	6.7%	7.4%	
mean+3SD	60.1	22.8	38.0	42.7	32.6	
mean-3SD	42.3	13.5	24.5	28.4	20.7	
N	16	16	16	16	16	
kit median	51.6	18.0	31.1	36.2	26.7	
mean/all kit median	0.81	0.89	0.83	0.85	0.87	0.85

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA125**					
Method	**DPF**	**DP5**	**Siemens Immulite 2500**			
mean	50.7	16.2	29.4	33.3	25.0	
SD	4.5	1.8	2.7	1.7	1.6	
%CV	8.8%	11.4%	9.1%	5.1%	6.2%	
mean+3SD	64.1	21.7	37.4	38.4	29.6	
mean-3SD	37.3	10.6	21.4	28.1	20.3	
N	4	4	4	4	4	
kit median	51.2	16.7	30.4	34.0	25.2	
mean/all kit median	0.80	0.79	0.78	0.80	0.82	0.80

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA125**					
Method	**GAA**	**CE1**	**Fujirebio/Centocor**			
mean	39.1	11.9	22.0	26.9	18.2	
N	2	2	2	2	2	
mean/all kit median	0.62	0.58	0.59	0.65	0.59	0.60

Sample	TM201	TM202	TM203	TM204	TM205
***CA125 kit average:**					
mean*	65.3	21.5	38.6	43.8	32.5
SD*	12.5	4.3	7.4	8.8	6.4
all kit median*	63.2	20.4	37.5	41.6	30.6

*excluded Fujirebio/Centocor for insufficient data

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA27.29**					
Method			**All lab**			
mean	70.6		32.5	34.3	20.3	
SD	4.5		2.8	2.7	2.4	
%CV	6.3%		8.7%	8.0%	11.9%	
mean+3SD	84.0		41.0	42.5	27.5	
mean-3SD	57.2		24.1	26.1	13.0	
N	45		45	45	45	
mean/all kit median	1.04		1.00	1.01	0.96	1.00

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA27.29**					
Method	**COB**	**BA1**	**Siemens ADVIA-Centaur**			
mean	71.9		32.6	34.4	19.8	
SD	3.4		3.0	2.9	2.3	
%CV	4.8%		9.3%	8.4%	11.7%	
mean+3SD	82.2		41.7	43.1	26.8	
mean-3SD	61.5		23.4	25.7	12.8	
N	38		38	38	38	
kit median	72.0		32.3	34.5	19.5	
mean/all kit median	1.06		1.00	1.01	0.94	1.00

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA27.29**					
Method	**TOM**	**TO1**	**TOSOH ST-A1A**			
mean	63.7		32.4	33.8	22.5	
SD	2.7		1.1	1.6	1.3	
%CV	4.2%		3.3%	4.7%	5.9%	
mean+3SD	71.8		35.6	38.6	26.5	
mean-3SD	55.6		29.2	29.1	18.6	
N	7		7	7	7	
kit median	64.0		32.1	33.5	22.7	
mean/all kit median	0.94		1.00	0.99	1.06	1.00

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
CA27.29 kit average:						
mean	67.8		32.5	34.1	21.2	
SD	5.8		0.1	0.4	1.9	
all kit median	67.8		32.5	34.1	21.2	

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA15-3**					
Method			**All lab**			
mean	77.9		38.2	39.6	25.6	
SD	19.4		8.9	9.3	5.6	
%CV	24.9%		23.3%	23.5%	22.0%	
mean+3SD	136.0		65.0	67.4	42.6	
mean-3SD	19.7		11.5	11.7	8.7	
N	55		55	55	55	
mean/all kit median	1.15		1.10	1.09	1.08	1.10

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA15-3**					
Method	**JJC**	**JJ1**	**Ortho Clinical Vitros Eci/Q**			
mean	67.1		32.9	33.8	21.8	
SD	1.3		0.3	0.9	0.5	
%CV	1.9%		0.8%	2.7%	2.4%	
mean+3SD	71.0		33.7	36.5	23.4	
mean-3SD	63.2		32.1	31.1	20.2	
N	4		4	4	4	
kit median	66.8		33.0	33.6	22.0	
mean/all kit median	0.99		0.94	0.93	0.92	0.94

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA15-3**					
Method	**COB**	**BA1**	**Siemens ADVIA-Centaur**			
mean	94.6		46.9	48.9	31.1	
SD	12.0		4.5	5.3	2.7	
%CV	12.7%		9.6%	10.8%	8.6%	
mean+3SD	130.7		60.4	64.8	39.1	
mean-3SD	58.5		33.4	33.0	23.1	
N	18		18	18	18	
kit median	93.5		45.0	47.1	30.3	
mean/all kit median	1.39		1.34	1.34	1.31	1.35

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA15-3**					
Method	**BME/BMR**	**BM1**	**Roche Elecsys/Cobas e411 & E170/ e601**			
mean	59.5		30.1	31.2	20.4	
SD	2.8		1.4	1.9	1.3	
%CV	4.7%		4.5%	6.2%	6.4%	
mean+3SD	67.8		34.2	37.0	24.3	
mean-3SD	51.1		26.1	25.4	16.5	
N	10		10	10	10	
kit median	58.9		30.1	31.2	20.6	
mean/all kit median	0.88		0.86	0.86	0.86	0.86

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA15-3**					
Method	**DPD/ DPF**	**DP5**	**Siemens Immulite 2000/2500**			
mean	94.8		43.8	44.5	29.3	
SD	5.5		2.8	2.3	1.8	
%CV	5.8%		6.3%	5.1%	6.1%	
mean+3SD	111.3		52.0	51.3	34.7	
mean-3SD	78.4		35.5	37.7	23.9	
N	9		9	9	9	
kit median	94.0		43.8	44.6	29.4	
mean/all kit median	1.40		1.25	1.22	1.24	1.28

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA15-3**					
Method	**BCU/BCX**	**BC1**	**Beckman Unicel & Access/2**			
mean	49.4		24.7	25.8	17.0	
SD	2.4		1.7	2.1	1.6	
%CV	4.8%		7.0%	8.0%	9.7%	
mean+3SD	56.6		29.8	31.9	22.0	
mean-3SD	42.2		19.5	19.6	12.1	
N	6		6	6	6	
kit median	48.5		24.3	25.5	16.6	
mean/all kit median	0.73		0.71	0.71	0.72	0.72

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA15-3**					
Method	**ABB**	**AB1**	**Abbott AxSym**			
mean	67.8		34.9	36.4	23.7	
SD	3.0		2.1	2.6	0.9	
%CV	4.4%		5.9%	7.0%	3.7%	
mean+3SD	76.8		41.1	44.0	26.4	
mean-3SD	58.9		28.7	28.7	21.1	
N	5		5	5	5	
kit median	69.1		35.0	37.7	23.5	
mean/all kit median	1.00		1.00	1.00	1.00	1.00

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA15-3**					
Method	**ABH**	**AB1**	**Abbott Architech**			
mean	85.7		43.7	43.7	28.7	
N	2		2	2	2	
mean/all kit median	1.26		1.25	1.20	1.21	1.23

Sample	TM201	TM202	TM203	TM204	TM205
CA15-3 kit average:					
mean	74.1		36.7	37.7	24.6
SD	17.8		8.2	8.2	5.2
all kit median	67.8		34.9	36.4	23.7

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA19-9**					
Method		**All lab (COB included)**				
mean		86.7	43.3	43.6	30.4	
SD		33.6	15.4	15.5	10.9	
%CV		38.7%	35.5%	35.6%	35.9%	
mean+3SD		187.3	89.4	90.1	63.1	
mean-3SD		-14.0	-2.9	-3.0	-2.3	
N		61	61	61	61	
mean/all kit median		1.47	1.41	1.40	1.43	1.43

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CA19-9**					
Method	**BCU/BCX**	**BC1**	**Beckman Unicel & Access/2**			
mean		56.4	29.2	29.5	20.1	
SD		3.5	1.8	1.6	1.1	
%CV		6.1%	6.3%	5.5%	5.4%	
mean+3SD		66.8	34.7	34.4	23.3	
mean-3SD		46.1	23.7	24.6	16.8	
N		13	13	13	13	
kit median		55.4	29.2	29.3	20.0	
mean/all kit median		0.96	0.95	0.95	0.95	0.95

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA19-9**					
Method		**All lab (COB excluded)**				
mean		55.2	28.7	28.9	20.3	
SD		15.2	5.7	6.0	5.2	
%CV		27.8%	29.9%	29.7%	28.3%	
mean+3SD		50.0	66.5	69.0	38.2	
mean-3SD		4.5	3.6	4.0	3.1	
N		30	30	30	30	
mean/all kit median		0.97	0.96	0.96	0.99	0.98

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**CA19-9**				
Method	**TOM**	**TO1**	**TOSOH ST-A1A**		
mean		35.4	20.6	20.4	14.5
SD		1.6	1.1	1.0	1.0
%CV		4.5%	5.5%	5.0%	6.8%
mean+3SD		40.1	24.0	23.5	17.5
mean-3SD		30.6	17.2	17.3	11.5
N		7	7	7	7
kit median		35.0	20.7	20.0	14.0
mean/all kit median		0.60	0.67	0.66	0.68	0.65

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CA19-9**					
Method	**COB**	**BA1**	**Siemens ADVIA-Centaur**			
mean		118.1	57.3	57.8	40.1	
SD		7.2	3.3	4.7	3.6	
%CV		6.1%	5.8%	8.1%	9.0%	
mean+3SD		139.7	67.3	71.8	50.9	
mean-3SD		96.5	47.3	43.7	29.3	
N		30	29	31	31	
kit median		117.8	56.7	58.0	40.0	
mean/all kit median		2.01	1.86	1.86	1.89	1.90

Sample	TM201	TM202	TM203	TM204	TM205
CA19-9 kit average:					
mean		51.0	27.4	27.5	19.0
SD		13.8	6.1	6.4	4.0
all kit median		58.9	30.8	31.1	21.2

* **Note**: The COB means were not included in the calculation of the all kit means (SDs) because the results from this method were very different from the results of all the others. However, this method was included in the all kit median calculation.

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**CA19-9**				
Method	**BME/BMR**	**BM1**	**Roche Elecsys/Cobas e411 & E170/e601**		
mean		61.3	32.3	32.7	22.4
SD		4.1	2.2	2.6	2.2
%CV		6.6%	6.7%	8.1%	10.1%
mean+3SD		73.5	38.8	40.6	29.1
mean-3SD		49.1	25.8	24.8	15.6
N		7	7	7	7
kit median		62.8	32.0	31.4	22.5
mean/all kit median		1.04	1.05	1.05	1.05	1.05

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	CEA					
Method			All lab			
mean	5.0	7.6	6.3	6.4	4.2	
SD	0.8	0.6	0.7	0.7	0.5	
%CV	15.9%	8.1%	10.5%	10.6%	11.9%	
mean+3SD	7.5	9.4	8.3	8.4	5.8	
mean-3SD	2.6	5.8	4.3	4.4	2.7	
N	166	158	164	162	164	
mean/all kit median	1.01	0.98	1.00	0.99	0.98	0.99

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	CEA					
Method	COB	BA1	Siemens ADVIA-Centaur			
mean	5.4	7.6	6.4	6.5	4.4	
SD	0.4	0.5	0.4	0.4	0.4	
%CV	6.9%	6.3%	5.9%	6.6%	8.6%	
mean+3SD	6.6	9.0	7.5	7.8	5.5	
mean-3SD	4.3	6.1	5.2	5.3	3.3	
N	58	57	56	56	58	
kit median	5.5	7.5	6.4	6.5	4.4	
mean/all kit median	1.08	0.98	1.01	1.01	1.01	1.02

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	JJC	JJ1	Ortho Clinical Diagnostics Vitros Eci/Q			
mean	9.2	13.1	11.2	11.3	8.9	
SD	2.2	2.1	2.3	2.2	2.4	
%CV	24.0%	15.9%	20.3%	19.2%	26.5%	
mean+3SD	15.8	19.3	18.0	17.7	15.9	
mean-3SD	2.6	6.9	4.3	4.8	1.8	
N	10	10	10	10	10	
kit median	8.9	12.9	10.9	11.0	8.3	
mean/all kit median	1.83	1.69	1.77	1.73	2.05	1.81

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	ABH	AB1	Abbott Architect			
mean	5.3	7.5	6.3	6.3	4.3	
SD	0.3	0.1	0.2	0.3	0.1	
%CV	5.9%	1.3%	3.1%	5.2%	3.5%	
mean+3SD	6.2	7.7	6.8	7.3	4.8	
mean-3SD	4.3	7.2	5.7	5.3	3.9	
N	4	4	4	4	4	
kit median	5.4	7.5	6.2	6.3	4.3	
mean/all kit median	1.05	0.96	0.99	0.97	1.00	0.99

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	JJC	JJ1	Ortho Clinical Diagnostics Vitros 5600			
mean	6.7	10.3	8.6	8.6	6.3	
N	2	2	2	2	2	
mean/all kit median	1.33	1.32	1.36	1.33	1.44	1.36

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	DUV	DA2	Siemens Dimension VISTA			
mean	4.5	8.6	6.5	6.7	4.4	
N	2	2	2	2	2	
mean/all kit median	0.90	1.11	1.02	1.02	1.00	1.01

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	TOM	TO1	TOSOH ST-A1A			
mean	7.0	8.0	7.5	7.7	5.1	
SD	0.3	0.5	0.4	0.4	0.3	
%CV	4.5%	5.9%	4.7%	5.2%	6.5%	
mean+3SD	7.9	9.4	8.6	8.9	6.1	
mean-3SD	6.0	6.6	6.4	6.5	4.1	
N	8	8	8	8	8	
kit median	7.0	8.0	7.5	7.6	5.1	
mean/all kit median	1.39	1.03	1.19	1.18	1.18	1.20

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	BCU	BC5	Beckman Unicel CEA2			
mean	4.6	7.9	6.2	6.4	4.2	
SD	0.4	0.5	0.4	0.5	0.2	
%CV	7.9%	6.3%	6.6%	7.9%	5.5%	
mean+3SD	5.7	9.4	7.5	8.0	4.9	
mean-3SD	3.5	6.4	5.0	4.9	3.5	
N	15	15	15	15	15	
kit median	4.5	7.8	6.1	6.3	4.2	
mean/all kit median	0.92	1.02	0.99	0.99	0.97	0.98

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	BCX	BC5	Beckman Access/2 CEA2			
mean	5.3	9.2	7.2	7.3	4.8	
SD	0.4	0.6	0.5	0.6	0.5	
%CV	6.7%	7.0%	6.7%	7.8%	10.3%	
mean+3SD	6.3	11.1	8.6	9.0	6.3	
mean-3SD	4.2	7.2	5.7	5.6	3.3	
N	12	12	12	12	12	
kit median	5.2	9.1	7.1	7.3	4.8	
mean/all kit median	1.05	1.18	1.14	1.13	1.11	1.12

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	CEA					
Method	DPB/ DPD/DPF	DP5	Siemens Immulite 1000/2000/2500			
mean	4.8	7.4	6.1	6.2	3.9	
SD	0.3	0.6	0.4	0.5	0.3	
%CV	6.4%	7.8%	6.6%	7.4%	8.2%	
mean+3SD	5.7	9.2	7.3	7.5	4.8	
mean-3SD	3.9	5.7	4.9	4.8	2.9	
N	19	19	19	19	19	
kit median	4.7	7.5	6.1	6.2	3.9	
mean/all kit median	0.95	0.96	0.97	0.95	0.89	0.94

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CEA**					
Method	**ABB**	**AB1**	**Abbott Axsym**			
mean	4.5	7.0	5.7	5.8	3.8	
SD	0.2	0.4	0.4	0.3	0.2	
%CV	4.9%	5.5%	6.2%	5.6%	6.3%	
mean+3SD	5.2	8.1	6.8	6.8	4.5	
mean-3SD	3.8	5.8	4.7	4.8	3.1	
N	16	16	16	16	16	
kit median	4.5	6.9	5.7	5.7	3.8	
mean/all kit median	0.90	0.90	0.91	0.89	0.88	0.89

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**CEA**					
Method	**BMR**	**BM1**	**Roche E170 & Cobas e601**			
mean	4.0	7.3	5.7	5.7	3.8	
SD	0.2	0.4	0.3	0.3	0.2	
%CV	6.0%	5.6%	5.8%	5.8%	5.4%	
mean+3SD	4.7	8.5	6.7	6.7	4.5	
mean-3SD	3.3	6.0	4.7	4.7	3.2	
N	18	18	18	18	18	
kit median	4.0	7.3	5.7	5.7	3.8	
mean/all kit median	0.80	0.94	0.90	0.88	0.88	0.88

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**CEA**					
Method	**BME**	**BM1**	**Roche Elecsys & Cobas e411**			
mean	4.1	7.3	5.6	5.7	3.8	
SD	0.2	0.2	0.1	0.2	0.1	
%CV	4.6%	2.3%	2.4%	3.5%	3.7%	
mean+3SD	4.6	7.8	6.0	6.3	4.3	
mean-3SD	3.5	6.8	5.2	5.1	3.4	
N	9	9	9	9	9	
kit median	4.0	7.3	5.7	5.7	3.9	
mean/all kit median	0.81	0.94	0.89	0.89	0.88	0.88

Sample	TM201	TM202	TM203	TM204	TM205
CEA kit average:					
mean	5.4	8.4	6.9	7.0	4.8
SD	1.5	1.8	1.6	1.6	1.5
all kit median	5.0	7.8	6.3	6.5	4.3

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**AFP**					
Method			**All lab**			
mean	5.7	10.7	26.2	12.8	16.0	
SD	0.7	1.1	2.1	1.2	1.5	
%CV	12.9%	10.3%	8.1%	9.7%	9.3%	
mean+3SD	7.9	14.0	32.6	16.6	20.4	
mean-3SD	3.5	7.4	19.9	9.1	11.5	
N	105	106	104	106	105	
mean/target	1.06	1.01	1.00	1.00	1.00	1.01

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**AFP**					
Method	**DUV**	**DA2**	**Siemens Dimension VISTA**			
mean	6.1	11.7	28.5	14.1	17.7	
N	2	2	2	2	2	
mean/target	1.13	1.10	1.09	1.10	1.10	1.11

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**AFP**					
Method	**COB**	**BA1**	**Siemens ADVIA-Centaur**			
mean	6.5	11.5	27.0	13.6	17.0	
SD	0.7	0.9	1.2	1.0	0.9	
%CV	10.7%	7.8%	4.5%	7.2%	5.2%	
mean+3SD	8.6	14.2	30.6	16.5	19.7	
mean-3SD	4.4	8.8	23.3	10.6	14.4	
N	27	27	26	27	27	
kit median	6.5	11.4	26.7	13.4	16.8	
mean/target	1.21	1.08	1.03	1.06	1.07	1.09

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**AFP**					
Method	**BCU/BCX**	**BC1**	**Beckman Unicel & Access/2**			
mean	5.8	11.2	27.3	13.3	16.5	
SD	0.3	0.7	1.5	1.0	0.9	
%CV	6.0%	6.0%	5.6%	7.7%	5.7%	
mean+3SD	6.8	13.2	31.9	16.4	19.3	
mean-3SD	4.7	9.2	22.7	10.2	13.6	
N	16	16	16	16	16	
kit median	5.9	11.3	27.0	13.6	16.3	
mean/target	1.07	1.06	1.04	1.04	1.03	1.05

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**AFP**					
Method	**ABB**	**AB1**	**Abbott AxSym**			
mean	6.0	11.0	27.0	13.2	16.3	
SD	0.4	0.6	1.5	0.4	0.8	
%CV	7.0%	5.5%	5.7%	3.3%	5.0%	
mean+3SD	7.2	12.8	31.6	14.5	18.8	
mean-3SD	4.7	9.2	22.4	11.9	13.9	
N	11	11	11	11	10	
kit median	6.0	11.1	27.0	13.1	16.2	
mean/target	1.10	1.04	1.03	1.03	1.02	1.04

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**AFP**					
Method	**DPB/ DPD/DPF**	**DP5**	**Siemens Immulite 1000/2000/2500**			
mean	5.0	9.9	25.2	12.0	15.0	
SD	0.5	1.1	2.6	1.2	1.5	
%CV	9.9%	11.2%	10.2%	10.0%	10.0%	
mean+3SD	6.5	13.3	32.9	15.6	19.4	
mean-3SD	3.5	6.6	17.5	8.4	10.5	
N	26	26	26	26	26	
kit median	5.0	10.0	25.0	12.0	15.0	
mean/target	0.93	0.94	0.96	0.94	0.93	0.94

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**AFP**					
Method	**BME/BMR**	**BM1**	**Roche Elecsys/Cobas e411 & E170/e601**			
mean	5.7	10.5	26.5	12.7	16.0	
SD	0.4	0.5	1.0	0.6	0.7	
%CV	7.4%	4.9%	3.7%	5.0%	4.5%	
mean+3SD	6.9	12.1	29.5	14.7	18.2	
mean-3SD	4.4	9.0	23.5	10.8	13.9	
N	14	14	14	14	14	
kit median	5.7	10.7	26.6	12.9	16.1	
mean/target	1.05	0.99	1.01	0.99	1.00	1.01

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**AFP**					
Method	**JJC**	**JJ1**	**Ortho Clinical Vitros Eci/Q**			
mean	4.7	8.7	20.8	10.2	12.8	
SD	0.1	0.2	0.4	0.2	0.1	
%CV	1.9%	2.1%	1.7%	2.1%	1.2%	
mean+3SD	5.0	9.2	21.9	10.8	13.2	
mean-3SD	4.5	8.1	19.8	9.5	12.3	
N	5	5	5	5	5	
kit median	4.8	8.7	20.8	10.1	12.8	
mean/target	0.88	0.82	0.79	0.80	0.80	0.82

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**AFP**					
Method	**TOM**	**TO1**	**TOSOH ST-A1A**			
mean	5.6	10.4	25.1	12.7	15.5	
SD	0.4	0.7	1.6	0.9	1.1	
%CV	6.3%	7.0%	6.4%	7.4%	7.0%	
mean+3SD	6.7	12.6	29.9	15.5	18.8	
mean-3SD	4.5	8.2	20.3	9.9	12.3	
N	5	5	5	5	5	
kit median	5.7	10.8	25.5	13.0	15.7	
mean/target	1.04	0.98	0.96	0.99	0.97	0.99

Sample	TM201	TM202	TM203	TM204	TM205
AFP kit average:					
mean	5.7	10.6	25.9	12.7	15.8
SD	0.6	1.0	2.3	1.2	1.5
all kit median	5.7	10.8	26.7	13.0	16.2

Sample	TM201	TM202	TM203	TM204	TM205
AFP					
***IS target**	**5.4**	**10.6**	**26.2**	**12.8**	**16.0**
SD (+/-)	0.3	0.5	1.0	0.5	0.8
% CV	5.3%	4.3%	3.8%	3.7%	5.0%
high (30%)	7.0	13.8	34.1	16.6	20.8
low (30%)	3.8	7.4	18.3	9.0	11.2

* target value from a traceable AFP standard

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method			**All lab**			
mean	2.5	3.9	1.1	7.9	15.6	
SD	0.2	0.4	0.1	0.8	1.6	
%CV	9.6%	9.7%	9.6%	10.3%	10.6%	
mean+3SD	3.2	5.1	1.4	10.4	20.5	
mean-3SD	1.8	2.8	0.8	5.5	10.6	
N	262	263	263	261	261	
mean/target	1.20	1.20	1.24	1.20	1.18	1.21

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**DUD**	**DA1**	**Siemens Dimension**			
mean	2.8	4.4	1.2	9.1	18.2	
SD	0.1	0.2	0.1	0.4	0.9	
%CV	3.8%	5.1%	5.1%	3.9%	4.7%	
mean+3SD	3.1	5.1	1.4	10.2	20.8	
mean-3SD	2.5	3.7	1.0	8.0	15.6	
N	26	27	27	26	26	
kit median	2.8	4.5	1.2	9.2	18.4	
mean/target	1.36	1.36	1.39	1.37	1.38	1.37

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**ABH**	**AB1**	**Abbott Architect**			
mean	2.6	4.2	1.1	8.5	16.5	
SD	0.0	0.1	0.0	0.3	0.3	
%CV	1.7%	1.3%	4.1%	3.8%	1.7%	
mean+3SD	2.8	4.4	1.2	9.5	17.3	
mean-3SD	2.5	4.1	0.9	7.6	15.7	
N	5	5	5	5	5	
kit median	2.6	4.2	1.1	8.6	16.3	
mean/target	1.27	1.30	1.24	1.29	1.25	1.27

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**JJC**	**JJ1**	**Ortho Clinical Vitros Eci/Q & 5600**			
mean	2.5	3.8	1.1	7.5	14.5	
SD	0.1	0.2	0.1	0.5	0.8	
%CV	5.7%	5.6%	6.6%	6.8%	5.6%	
mean+3SD	3.0	4.5	1.4	9.1	16.9	
mean-3SD	2.1	3.2	0.9	6.0	12.0	
N	19	19	19	19	19	
kit median	2.5	3.9	1.1	7.5	14.6	
mean/target	1.23	1.18	1.30	1.14	1.10	1.19

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**PSA**				
Method	**DPB/ DPD/DPF**	**DP5**	**Siemens Immulite1000/2000/2500**		
mean	2.7	4.2	1.1	8.4	16.1
SD	0.2	0.4	0.1	0.7	1.4
%CV	9.0%	9.5%	9.2%	8.8%	8.8%
mean+3SD	3.4	5.4	1.5	10.7	20.4
mean-3SD	2.0	3.0	0.8	6.2	11.9
N	27	27	27	27	27
kit median	2.6	4.2	1.1	8.5	15.8
mean/target	1.30	1.30	1.31	1.27	1.22

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**DPB/ DPD/DPF**	**DP6**	**Siemens Immulite 1000/2000/2500 3rd gen.**			
mean	2.5	3.9	1.0	7.8	15.0	
SD	0.3	0.4	0.1	1.2	1.9	
%CV	11.8%	11.0%	12.2%	15.5%	12.5%	
mean+3SD	3.3	5.2	1.4	11.4	20.7	
mean-3SD	1.6	2.6	0.7	4.2	9.4	
N	7	7	7	7	7	
kit median	2.4	3.8	1.0	7.7	14.6	
mean/target	1.20	1.19	1.18	1.17	1.14	1.18

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**PSA**				
Method	**BCX**	**BC2**	**Beckman Access/2 Hybritech calib.**		
mean	2.6	4.2	1.1	8.6	17.1
SD	0.1	0.2	0.1	0.3	0.8
%CV	5.0%	5.0%	4.9%	3.8%	4.8%
mean+3SD	3.0	4.8	1.3	9.6	19.5
mean-3SD	2.2	3.5	1.0	7.6	14.6
N	31	31	31	30	30
kit median	2.6	4.2	1.1	8.6	17.0
mean/target	1.28	1.28	1.31	1.30	1.29

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**COB**	**BA1**	**Siemens ADVIA-Centaur**			
mean	2.4	3.7	1.1	7.4	14.7	
SD	0.1	0.2	0.1	0.4	0.8	
%CV	5.0%	4.7%	5.1%	5.2%	5.1%	
mean+3SD	2.7	4.3	1.2	8.6	17.0	
mean-3SD	2.0	3.2	0.9	6.3	12.5	
N	57	57	57	57	56	
kit median	2.3	3.7	1.1	7.4	14.8	
mean/target	1.14	1.15	1.21	1.12	1.12	1.15

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**PSA**				
Method	**BCU**	**BC2**	**Beckman Unicel Hybritech calib.**		
mean	2.6	4.1	1.1	8.5	16.5
SD	0.2	0.3	0.1	0.7	1.4
%CV	8.2%	6.6%	8.0%	8.6%	8.6%
mean+3SD	3.2	4.9	1.4	10.7	20.8
mean-3SD	1.9	3.3	0.8	6.3	12.3
N	22	22	22	22	22
kit median	2.6	4.0	1.1	8.5	16.5
mean/target	1.25	1.25	1.28	1.28	1.26

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**BMR**	**BM1**	**Roche E170/Cobas e601**			
mean	2.2	3.5	1.0	7.2	14.2	
SD	0.1	0.2	0.0	0.4	0.8	
%CV	5.8%	5.6%	4.4%	5.4%	5.7%	
mean+3SD	2.6	4.1	1.1	8.3	16.6	
mean-3SD	1.8	2.9	0.9	6.0	11.7	
N	21	21	21	21	21	
kit median	2.2	3.6	1.0	7.2	14.3	
mean/target	1.08	1.09	1.14	1.08	1.08	1.09

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**ABB**	**AB1**	**Abbott Axsym**			
mean	2.4	3.7	1.0	7.7	15.2	
SD	0.1	0.2	0.1	0.3	0.8	
%CV	4.7%	4.8%	6.4%	3.7%	5.3%	
mean+3SD	2.7	4.2	1.1	8.5	17.6	
mean-3SD	2.0	3.1	0.8	6.8	12.7	
N	16	16	16	16	16	
kit median	2.4	3.6	1.0	7.6	15.3	
mean/target	1.14	1.12	1.11	1.16	1.15	1.14

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**BME**	**BM1**	**Roche Elecsys/Cobas e411**			
mean	2.2	3.5	1.0	7.1	14.0	
SD	0.1	0.1	0.0	0.3	0.5	
%CV	3.9%	3.9%	4.8%	3.8%	3.5%	
mean+3SD	2.5	3.9	1.1	7.9	15.4	
mean-3SD	2.0	3.1	0.8	6.3	12.5	
N	14	14	14	14	13	
kit median	2.2	3.6	1.0	7.2	13.9	
mean/target	1.07	1.08	1.12	1.07	1.06	1.08

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**PSA**				
Method	**TOM**	**TO1**	**TOSOH AIA/ST-A1A**		
mean	2.3	3.6	1.0	7.3	14.5
SD	0.2	0.2	0.1	0.4	1.0
%CV	7.4%	5.7%	7.7%	5.7%	7.1%
mean+3SD	2.8	4.2	1.2	8.6	17.6
mean-3SD	1.8	3.0	0.7	6.1	11.4
N	13	13	13	12	13
kit median	2.2	3.6	1.0	7.3	14.3
mean/target	1.10	1.10	1.11	1.11	1.10	1.11

Sample	TM201	TM202	TM203	TM204	TM205
PSA kit average:					
mean	2.5	3.9	1.1	7.9	15.4
SD	0.2	0.3	0.1	0.7	1.4
all kit median	2.5	3.8	1.1	7.7	15.0

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**PSA**					
Method	**BCX/BCU**	**BC3**	**Beckman Unicel/Access/2**	**WHO calib.**		
mean	2.3	3.5	1.0	7.4	13.7	
SD	0.2	0.5	0.2	0.9	2.1	
%CV	10.6%	13.0%	15.4%	12.7%	15.4%	
mean+3SD	3.0	4.9	1.4	10.2	20.0	
mean-3SD	1.5	2.2	0.5	4.6	7.3	
N	4	4	4	4	4	
kit median	2.2	3.4	0.9	7.0	12.7	
mean/target	1.09	1.08	1.12	1.12	1.04	1.09

Sample	TM201	TM202	TM203	TM204	TM205
PSA					
*** IS target**	**2.1**	**3.3**	**0.9**	**6.6**	**13.2**
SD (+/-)	0.1	0.2	0.1	0.4	0.9
% CV	5.7%	5.5%	11.4%	6.1%	6.6%
high (25%)	2.7	4.2	1.1	8.3	16.5
low (25%)	1.4	2.3	0.6	5.0	9.9

* target value from a traceable PSA standard

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**free PSA**					
Method			**All lab**			
mean	0.29	0.48	0.30	0.93	2.59	
SD	0.06	0.09	0.06	0.16	0.43	
%CV	20.8%	18.3%	20.2%	17.6%	16.7%	
mean+3SD	0.48	0.74	0.48	1.42	3.89	
mean-3SD	0.11	0.22	0.12	0.44	1.30	
N	75	77	74	84	79	
mean/target	1.47	1.37	1.48	1.31	1.30	1.39

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**free PSA**					
Method	**DUD**	**DA1**	**Siemens Dimension**			
mean	0.30	0.45	0.30	0.87	2.52	
SD	0.01	0.04	0.01	0.06	0.13	
%CV	2.1%	8.2%	3.1%	6.6%	5.3%	
mean+3SD	0.32	0.56	0.32	1.05	2.91	
mean-3SD	0.28	0.34	0.27	0.70	2.12	
N	8	8	8	8	8	
kit median	0.30	0.46	0.30	0.90	2.50	
mean/target	1.49	1.29	1.48	1.23	1.26	1.35

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**free PSA**					
Method	**BCU**	**BC2**	**Beckman Unicel Hybritech calibration**			
mean	0.36	0.58	0.36	1.14	3.12	
SD	0.03	0.04	0.03	0.08	0.19	
%CV	9.1%	6.9%	8.3%	6.7%	6.1%	
mean+3SD	0.46	0.70	0.45	1.37	3.69	
mean-3SD	0.26	0.46	0.27	0.91	2.55	
N	16	16	16	16	16	
kit median	0.37	0.59	0.36	1.16	3.07	
mean/target	1.81	1.66	1.82	1.61	1.56	1.69

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**free PSA**				
Method	**BCX**	**BC2**	**Beckman Access/2 Hybritech calib.**		
mean	0.36	0.58	0.36	1.12	3.08
SD	0.04	0.02	0.03	0.05	0.13
%CV	11.2%	4.0%	7.3%	4.2%	4.1%
mean+3SD	0.48	0.65	0.44	1.26	3.46
mean-3SD	0.24	0.51	0.28	0.97	2.69
N	13	14	12	15	14
kit median	0.36	0.59	0.36	1.10	3.07
mean/target	1.78	1.66	1.81	1.57	1.54

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**free PSA**					
Method	**BMR**	**BM1**	**Roche E170/Cobas e601**			
mean	0.26	0.43	0.26	0.83	2.28	
SD	0.02	0.04	0.02	0.06	0.12	
%CV	6.8%	9.5%	6.1%	6.7%	5.3%	
mean+3SD	0.32	0.55	0.31	1.00	2.64	
mean-3SD	0.21	0.31	0.21	0.66	1.92	
N	11	11	11	14	13	
kit median	0.26	0.42	0.26	0.83	2.30	
mean/target	1.32	1.23	1.31	1.17	1.14	1.23

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**free PSA**				
Method	**ABB/ ABH**	**AB1**	**Abbott Axsym & Architect**		
mean	0.25	0.42	0.26	0.81	2.44
SD	0.02	0.04	0.02	0.05	0.17
%CV	6.9%	9.5%	6.7%	5.8%	6.8%
mean+3SD	0.30	0.54	0.31	0.95	2.93
mean-3SD	0.20	0.30	0.21	0.67	1.94
N	3	3	3	5	3
kit median	0.24	0.40	0.25	0.81	2.44
mean/target	1.25	1.21	1.30	1.14	1.22

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**free PSA**					
Method	**BCU/BCX**	**BC3**	**Beckman Unicel/Access WHO calib.**			
mean	0.27	0.44	0.27	0.85	2.39	
N	2	2	2	2	2	
mean/target	1.33	1.24	1.33	1.19	1.20	1.26

Sample	TM201	TM202	TM203	TM204	TM205
Analyte	**free PSA**				
Method	**BME**	**BM1**	**Roche Elecsys/Cobas e411**		
mean	0.25	0.41	0.25	0.81	2.21
SD	0.02	0.02	0.01	0.05	0.10
%CV	7.1%	5.6%	5.9%	5.9%	4.7%
mean+3SD	0.30	0.48	0.29	0.95	2.52
mean-3SD	0.20	0.34	0.20	0.66	1.89
N	7	7	7	8	7
kit median	0.26	0.42	0.26	0.82	2.23
mean/target	1.26	1.16	1.24	1.13	1.10

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**free PSA**					
Method	**DPD**	**DP5**	**Siemens Immulite 2000**			
mean	0.22	0.39	0.23	0.78	2.16	
SD	0.02	0.02	0.02	0.05	0.10	
%CV	7.5%	5.5%	10.0%	6.6%	4.7%	
mean+3SD	0.27	0.45	0.30	0.93	2.47	
mean-3SD	0.17	0.32	0.16	0.62	1.86	
N	15	16	15	16	16	
kit median	0.22	0.39	0.23	0.79	2.19	
mean/target	1.11	1.11	1.14	1.10	1.08	1.11

Sample	TM201	TM202	TM203	TM204	TM205
free PSA kit average:					
mean	0.28	0.46	0.29	0.90	2.52
SD	0.05	0.08	0.05	0.14	0.37
all kit median	0.26	0.43	0.26	0.84	2.41

Sample	TM201	TM202	TM203	TM204	TM205
free PSA					
* **IS target**	**0.20**	**0.35**	**0.20**	**0.71**	**2.00**
SD (+/-)	0.02	0.02	0.02	0.03	0.10
% CV	12.1%	7.2%	11.1%	4.5%	4.8%
high (30%)	0.26	0.46	0.26	0.92	2.60
low (30%)	0.14	0.25	0.14	0.50	1.40

* target value from a traceable free PSA standard.

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**% free PSA**					
Method			**All lab**			
mean	11.6	12.2	26.7	11.4	15.8	
SD	2.3	2.1	5.3	2.4	3.2	
%CV	19.9%	17.2%	19.7%	21.0%	20.4%	
mean+3SD	18.6	18.5	42.6	18.7	25.4	
mean-3SD	4.7	5.9	10.9	4.2	6.1	
N	55	64	50	72	52	
mean/target	1.18	1.14	1.18	1.07	1.05	1.12

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**% free PSA**					
Method	**AB1**	**AB1**	**Abbott Axsym & Architech**			
mean	10.0	11.0	24.0	10.1	16.5	
SD	0.0	1.0	0.0	0.6	2.1	
%CV	0.0%	8.7%	0.0%	5.7%	12.9%	
mean+3SD	10.0	13.8	24.0	11.8	22.9	
mean-3SD	10.0	8.1	24.0	8.4	10.1	
N	2	3	2	5	2	
kit median	10.0	11.0	24.0	10.0	16.5	
mean/target	1.02	1.02	1.06	0.94	1.09	1.03

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**% free PSA**					
Method	**BC2**	**BC2**	**Beckman Unicel & Access/2 Hybritech calib.**			
mean	13.6	14.1	32.4	13.5	18.4	
SD	1.7	1.0	2.9	1.2	1.8	
%CV	12.4%	6.9%	9.0%	8.6%	9.7%	
mean+3SD	18.6	17.0	41.1	16.9	23.8	
mean-3SD	8.5	11.2	23.7	10.0	13.1	
N	19	26	15	26	13	
kit median	13.8	14.2	31.7	13.5	18.6	
mean/target	1.39	1.32	1.43	1.26	1.22	1.32

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**% free PSA**					
Method	**DA1**	**DA1**	**Siemens Dimension**			
mean	10.3	10.1	23.5	9.4	13.8	
SD	0.8	0.7	2.1	0.5	0.7	
%CV	8.2%	7.0%	8.9%	4.8%	5.4%	
mean+3SD	12.8	12.2	29.7	10.8	16.0	
mean-3SD	7.7	7.9	17.2	8.1	11.5	
N	7	7	7	7	7	
kit median	10.2	10.0	23.0	9.4	13.9	
mean/target	1.05	0.94	1.03	0.88	0.91	0.96

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**% free PSA**					
Method	**BM1**	**BM1**	**Roche Elecsys/Cobas e411 & E170/e601**			
mean	11.8	11.9	26.0	11.4	15.9	
SD	1.0	0.9	1.8	0.7	0.7	
%CV	8.4%	7.5%	6.9%	6.1%	4.7%	
mean+3SD	14.7	14.6	31.4	13.5	18.1	
mean-3SD	8.8	9.2	20.6	9.3	13.7	
N	15	15	15	20	17	
kit median	11.7	11.9	25.7	11.4	16.0	
mean/target	1.20	1.11	1.15	1.07	1.05	1.12

Sample	TM201	TM202	TM203	TM204	TM205	
Analyte	**% free PSA**					
Method	**DP5**	**DP5**	**Siemens Immulite 2000**			
mean	8.1	9.3	19.3	8.9	13.5	
SD	0.7	0.6	2.1	0.8	1.1	
%CV	9.2%	6.2%	11.0%	8.5%	8.1%	
mean+3SD	10.4	11.0	25.7	11.1	16.8	
mean-3SD	5.9	7.6	12.9	6.6	10.2	
N	8	9	7	9	8	
kit median	8.0	9.0	20.0	9.0	13.8	
mean/target	0.83	0.87	0.85	0.83	0.89	0.85

Sample	TM201	TM202	TM203	TM204	TM205
% free PSA					
IS target	**9.8%**	**10.7%**	**22.7%**	**10.7%**	**15.1%**

Sample	TM201	TM202	TM203	TM204	TM205
% free PSA kit average:					
mean	10.8	11.3	25.0	10.7	15.6
SD	2.0	1.9	4.8	1.8	2.1
all kit median	10.3	11.0	24.0	10.1	15.9

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**complexed PSA**					
Method			**All lab**			
mean	2.1	3.3	0.8	6.8	12.7	
SD	0.1	0.1	0.1	0.3	0.8	
%CV	6.4%	4.1%	6.9%	4.2%	6.4%	
mean+3SD	2.5	3.7	0.9	7.7	15.1	
mean-3SD	1.7	2.9	0.6	6.0	10.2	
N	11	11	11	11	11	
all median	2.1	3.4	0.8	6.8	12.9	

Sample	TM201	TM202	TM203	TM204	TM205	Average bias
Analyte	**% complexed PSA**					
Method			**All lab**			
mean	89.1%	88.9%	71.8%	91.6%	85.0%	
SD	0.09	0.06	0.05	0.05	0.08	
%CV	10.3%	6.6%	7.2%	5.7%	9.4%	
mean+3SD	116.6%	106.5%	87.3%	107.3%	108.8%	
mean-3SD	61.7%	71.4%	56.4%	75.8%	61.1%	
N	10	10	10	10	10	
all median	87.5%	87.2%	70.0%	92.2%	86.1%	