

Shraddhadeep Greencross Pathology Laboratory

# MONTHLY HAEMATOLOGY

CYCLE 13 SAMPLE 1

## Explanation of codes used in this report

R - Results removed due to reconstitution error  
N - No result returned  
C - Result corrected

Authorised by: Stephen Doherty, RIQAS Manager

Issue No: 1

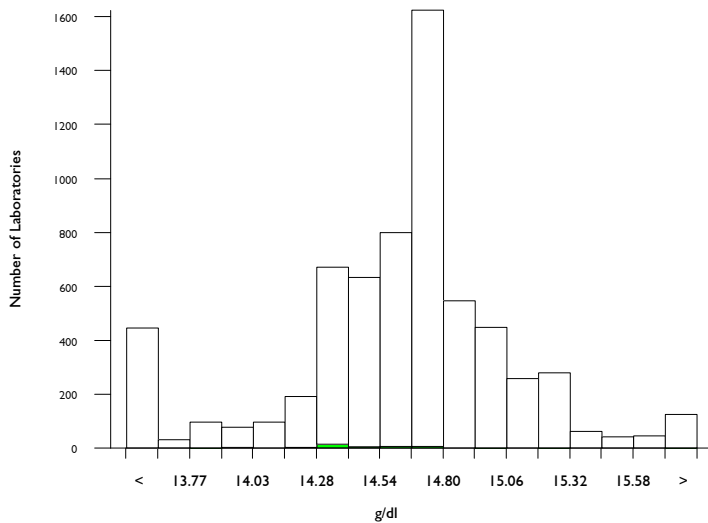
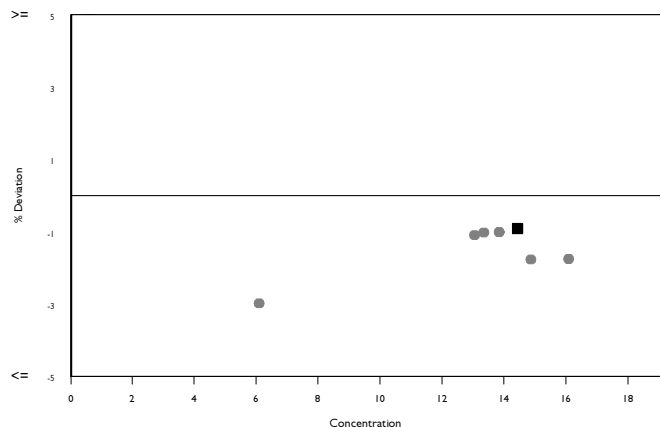
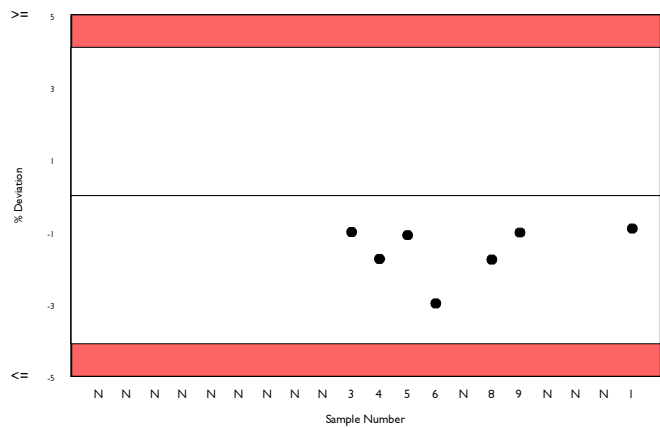
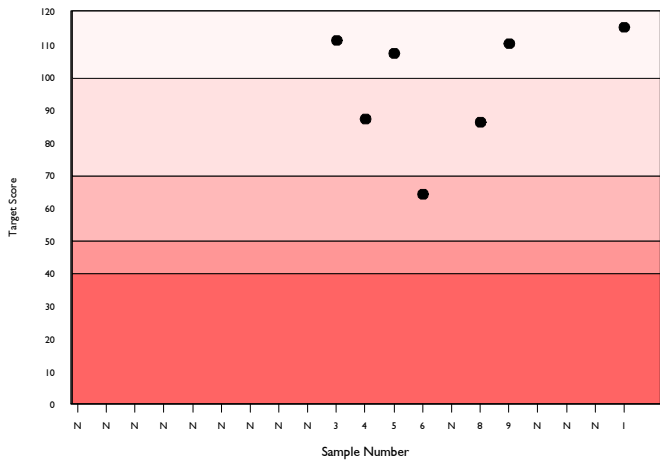
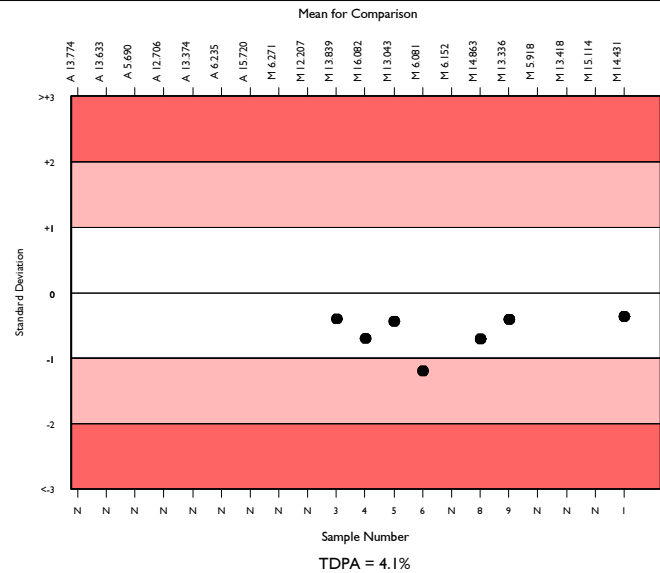
Issue Date: 27/01/2020

# Haemoglobin, g/dl

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5956	14.677	2.3	0.01	0.37	506
Horiba Yumizen H500/ 550	39	14.431	1.4	0.04	0.36	5

▲ Your Result	14.300	SDI	-0.37
		RMSDI	Too Few
■ Mean for Comparison	14.431	TS	115
		RMTS	Too Few
		%DEV	-0.9
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	4.19%
Acceptable limits of performance for RIQAS	4.10%



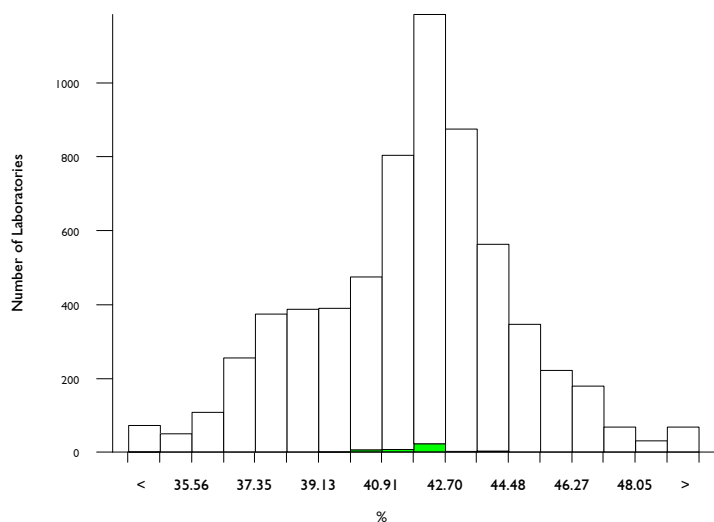
Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	955	14.714	1.0	0.01
Abbott Cell-Dyn Ruby	389	14.960	1.6	0.02
Sysmex XS series	340	14.693	1.2	0.01
Sysmex XT series	281	14.557	1.1	0.01
Siemens/Bayer Advia 120/2120	273	14.783	1.4	0.02
Beckman Coulter DxH 600/800/900 Series	269	14.384	1.0	0.01
Sysmex XN-L Series (330/350/450/550)	244	14.608	1.1	0.01
Sysmex XP Series	240	14.430	1.9	0.02
Mindray BC 1000/2000/3000 series	237	14.766	3.2	0.04
Nihon Kohden Celltac Alpha	226	14.858	1.8	0.02
Manual Methods	172	12.901	3.8	0.05
Horiba ABX Pentra 60/80/XLR	163	14.800	1.3	0.02
Sysmex KX 21	153	14.524	1.6	0.02
Mindray BC-6000/6200/6600/6800	145	14.657	0.9	0.01
ABX Micros/Minos/ABC VET	144	14.512	2.9	0.04
Calculated from HCT	127	12.864	4.0	0.06
Mindray BC 5100/5180/5300/5380/5390	104	14.723	2.0	0.04
Beckman Coulter LH700 Series	92	14.673	0.9	0.02
Beckman Coulter Ac. T 5 series	87	14.738	1.2	0.02
Nihon Kohden Celltac Es	76	14.856	1.4	0.03
Mindray BC 5000/5150/5130/5140	75	14.660	1.8	0.04

# Haematocrit (HCT), %

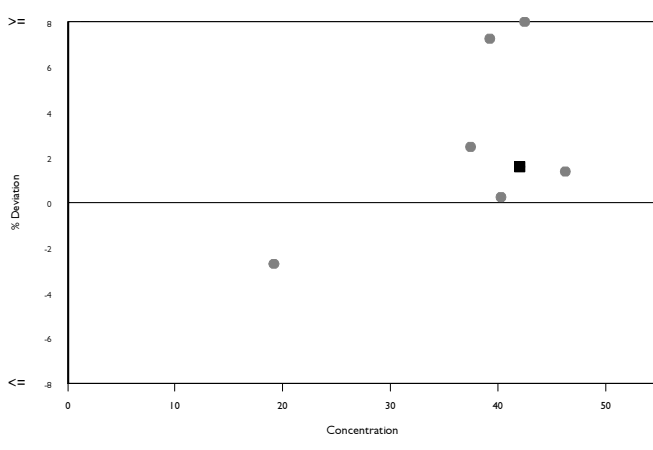
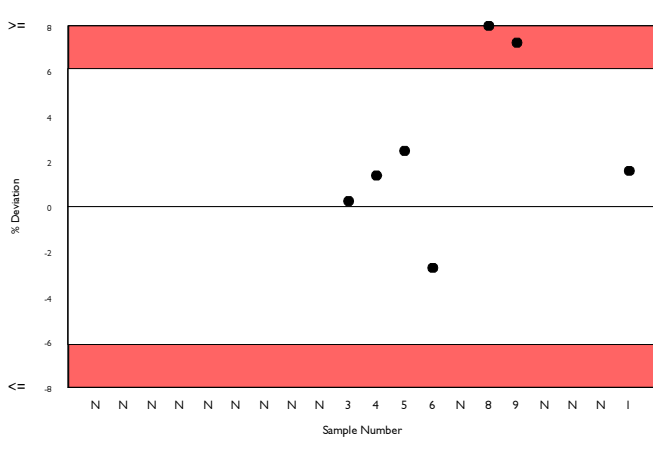
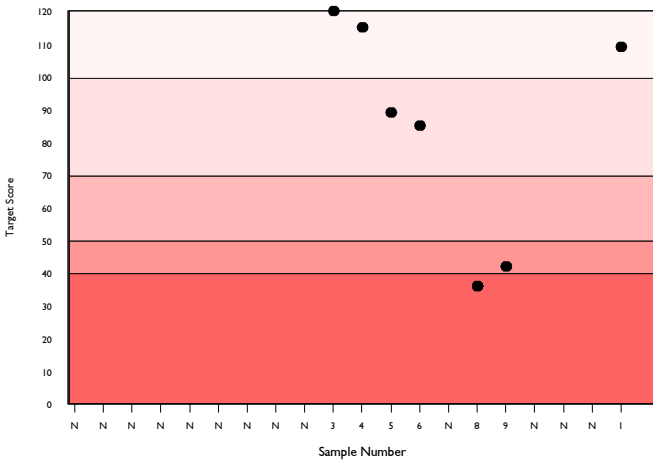
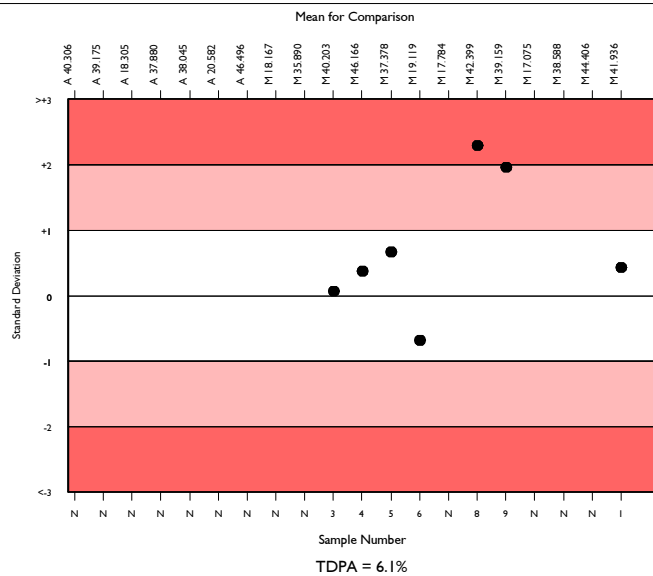
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	6062	41.811	5.7	0.04	1.55	383
Horiba Yumizen H500/ 550	39	41.936	1.8	0.15	1.56	4

▲ Your Result	42.600	SDI	0.43
		RMSDI	Too Few
■ Mean for Comparison	41.936	TS	109
		RMTS	Too Few
		%DEV	1.6
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	3.97%
Acceptable limits of performance for RIQAS	6.10%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	966	42.428	1.8	0.03
Abbott Cell-Dyn Ruby	382	37.374	2.4	0.06
Sysmex XS series	341	42.148	1.8	0.05
Sysmex XT series	287	41.948	2.1	0.07
Siemens/Bayer Advia 120/2120	277	37.766	2.4	0.07
Beckman Coulter DxH 600/800/900 Series	271	43.136	1.4	0.05
Sysmex XN-L Series (330/350/450/550)	243	42.066	1.9	0.06
Sysmex XP series	230	39.240	2.4	0.08
Mindray BC 1000/2000/3000 series	228	43.744	3.4	0.12
Nihon Kohden Celltac Alpha	226	43.917	3.1	0.11
Manual Methods	171	38.755	2.8	0.10
Horiba ABX Pentra 60/80/XLR	163	40.748	2.2	0.09
Sysmex KX 21	150	39.840	2.1	0.09
Mindray BC-6000/6200/6600/6800	150	46.644	1.4	0.07
Microhematocrit Centrifugation	137	38.723	3.0	0.13
ABX Micros/Minos/ABC VET	141	41.721	2.9	0.13
Mindray BC 5100/5180/5300/5380/5390	102	45.048	2.5	0.14
Beckman Coulter LH700 Series	96	43.679	1.3	0.07
Beckman Coulter Ac. T 5 series	89	40.575	2.1	0.11
Nihon Kohden Celltac Es	74	43.975	2.2	0.14
Mindray BC 5000/5150/5130/5140	74	44.914	2.8	0.18

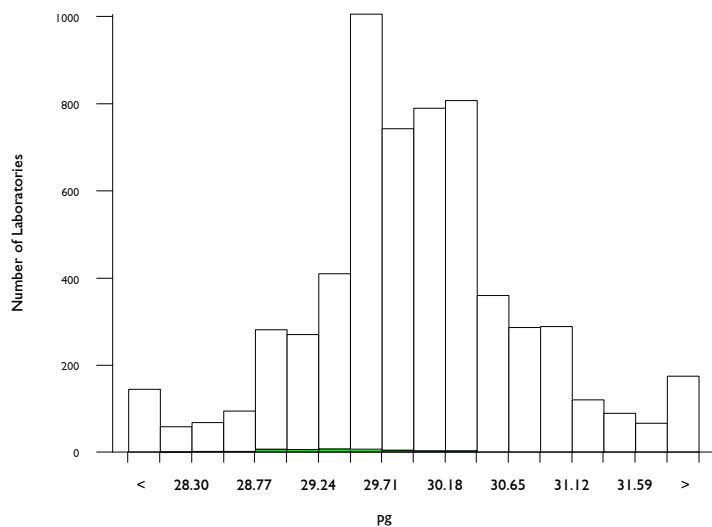


# MCH, pg

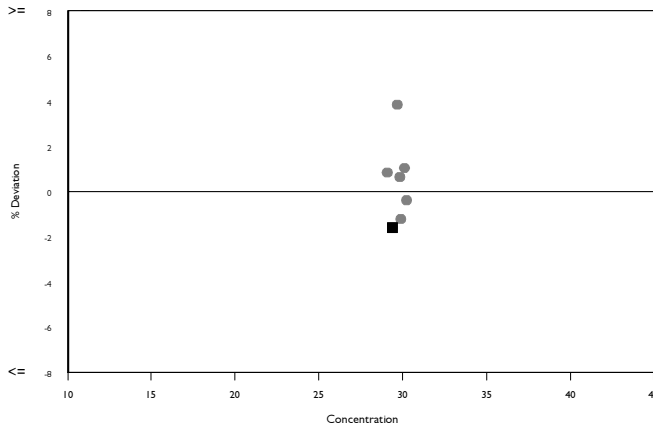
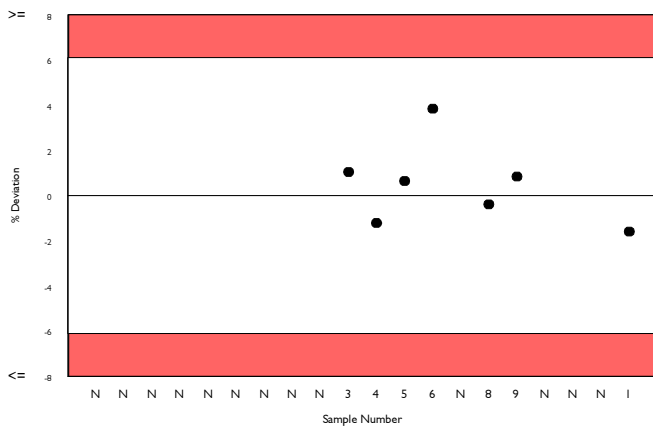
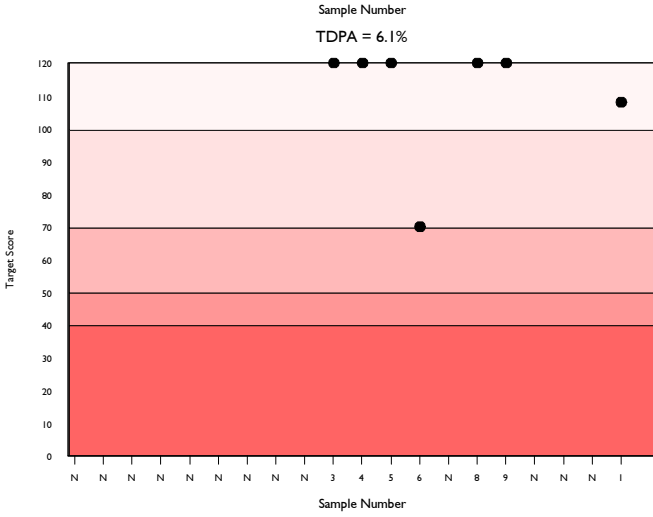
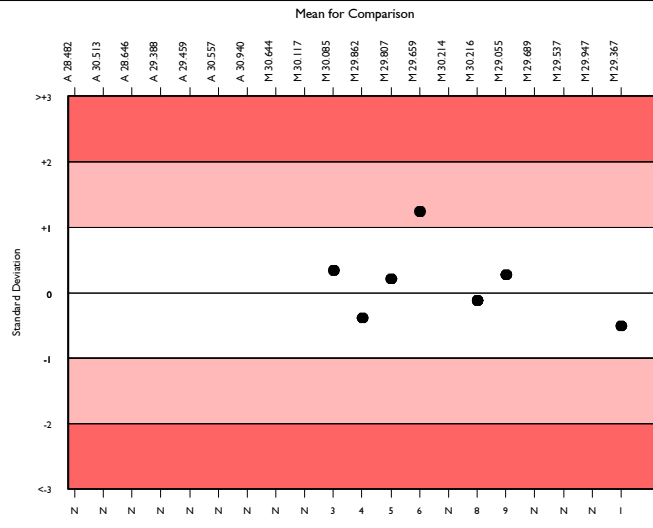
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5605	29.948	2.1	0.01	0.93	443
Horiba Yumizen H500/ 550	42	29.367	1.6	0.09	0.91	2

▲ Your Result	28.900	SDI	-0.51
		RMSDI	Too Few
■ Mean for Comparison	29.367	TS	108
		RMTS	Too Few
		%DEV	-1.6
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	2.5%
Acceptable limits of performance for RIQAS	6.10%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	957	29.782	1.2	0.01
Abbott Cell-Dyn Ruby	383	29.949	2.1	0.04
Sysmex XS series	338	29.897	1.2	0.02
Sysmex XT series	283	29.633	1.6	0.03
Siemens/Bayer Advia 120/2120	272	30.422	1.9	0.04
Beckman Coulter DxH 600/800/900 Series	266	29.830	1.3	0.03
Sysmex XN-L Series (330/350/450/550)	240	29.748	1.1	0.03
Sysmex XP Series	233	30.007	1.9	0.05
Mindray BC 1000/2000/3000 series	228	29.849	3.1	0.08
Nihon Kohden Celltac Alpha	221	30.343	2.1	0.05
Horiba ABX Pentra 60/80/XLR	165	30.253	1.7	0.05
Sysmex KX 21	146	30.039	1.6	0.05
Mindray BC-6000/6200/6600/6800	147	30.028	1.3	0.04
ABX Micros/Minos/ABC VET	140	29.639	3.0	0.09
Mindray BC 5100/5180/5300/5380/5390	103	30.442	1.8	0.07
Beckman Coulter LH700 Series	91	29.817	1.3	0.05
Beckman Coulter Ac. T 5 series	83	30.057	1.3	0.05
Nihon Kohden Celltac Es	74	30.480	2.0	0.09
Mindray BC 5000/5150/5130/5140	75	30.346	2.1	0.09
ABX Pentra 120/Nexus Series	72	29.587	1.8	0.08
Medonic M series/Swelab	64	30.511	1.6	0.08

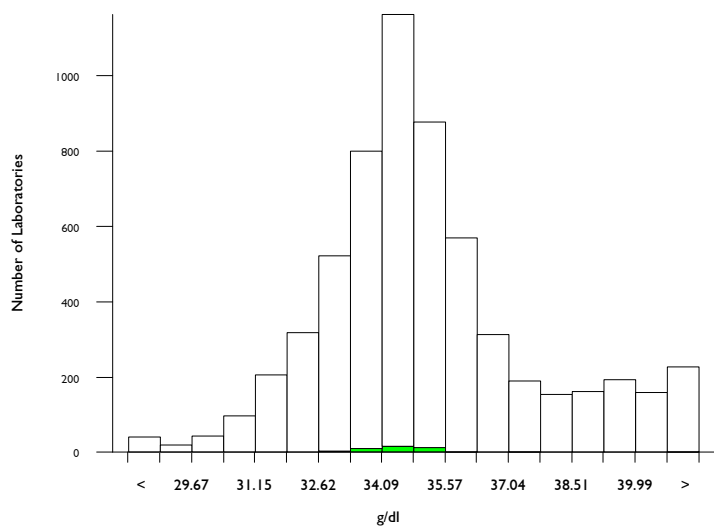


# MCHC, g/dl

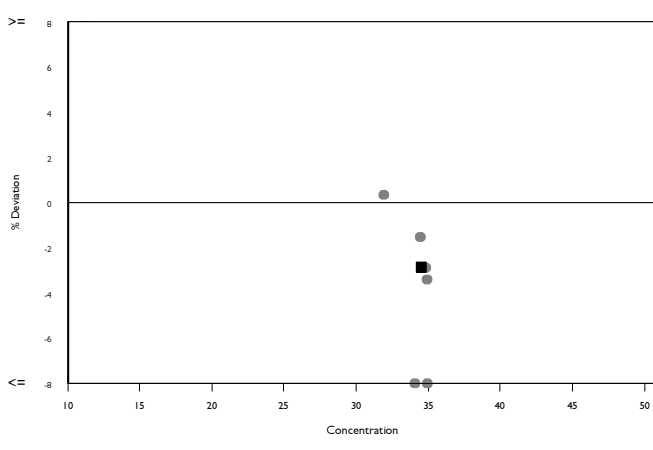
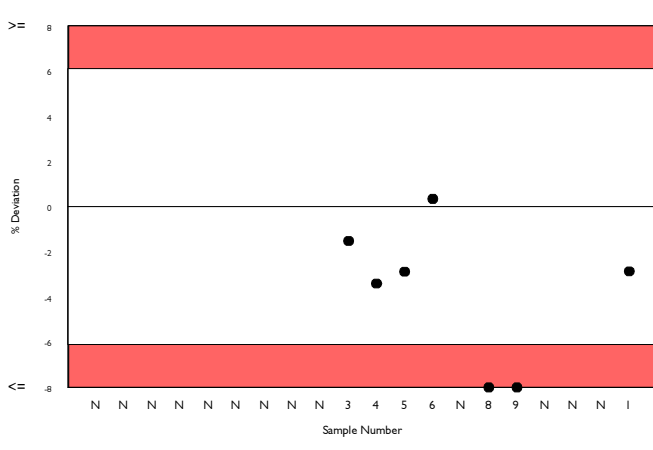
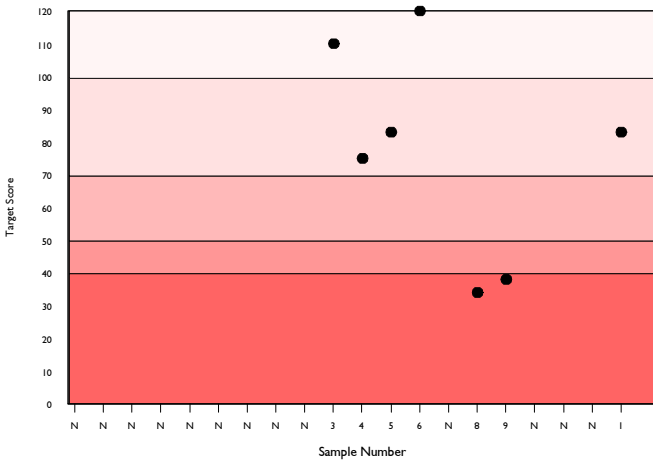
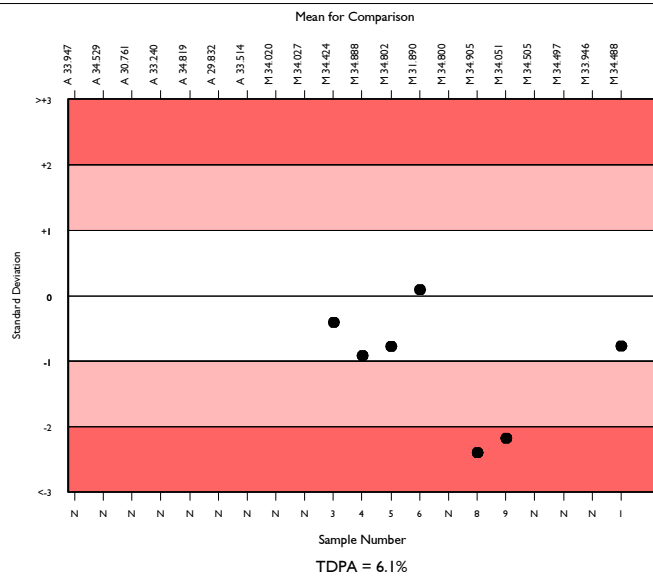
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5590	34.833	5.6	0.03	1.29	449
Horiba Yumizen H500/ 550	40	34.488	1.8	0.12	1.28	4

▲ Your Result	33.500	SDI	-0.77
		RMSDI	Too Few
■ Mean for Comparison	34.488	TS	83
		RMTS	Too Few
		%DEV	-2.9
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	1.27%
Acceptable limits of performance for RIQAS	6.10%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	974	34.695	1.9	0.03
Abbott Cell-Dyn Ruby	374	39.964	2.4	0.06
Sysmex XS series	344	34.884	1.8	0.04
Sysmex XT series	285	34.651	2.1	0.05
Siemens/Bayer Advia 120/2120	275	39.163	2.6	0.08
Beckman Coulter DxH 600/800/900 Series	266	33.293	1.5	0.04
Sysmex XN-L Series (330/350/450/550)	241	34.715	1.8	0.05
Sysmex XP Series	229	36.776	2.8	0.09
Mindray BC 1000/2000/3000 series	223	33.615	3.4	0.09
Nihon Kohden Celltac Alpha	222	33.820	3.3	0.09
Horiba ABX Pentra 60/80/XLR	155	36.354	1.9	0.07
Sysmex KX 21	152	36.368	2.6	0.09
Mindray BC-6000/6200/6600/6800	147	31.459	1.3	0.04
ABX Micros/Minos/ABC VET	141	34.708	3.4	0.13
Mindray BC 5100/5180/5300/5380/5390	102	32.799	2.7	0.11
Beckman Coulter LH700 Series	92	33.703	1.6	0.07
Beckman Coulter Ac. T 5 series	84	36.386	1.6	0.08
Nihon Kohden Celltac Es	76	33.599	3.0	0.14
Mindray BC 5000/5150/5130/5140	72	32.684	2.6	0.12
ABX Pentra 120/Nexus Series	72	35.955	1.9	0.10
Medonic M series/Swelab	68	35.538	3.9	0.21

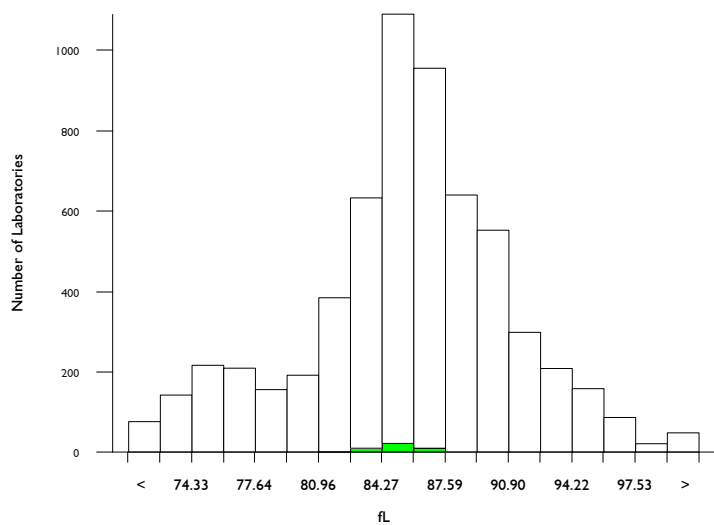


# MCV, fL

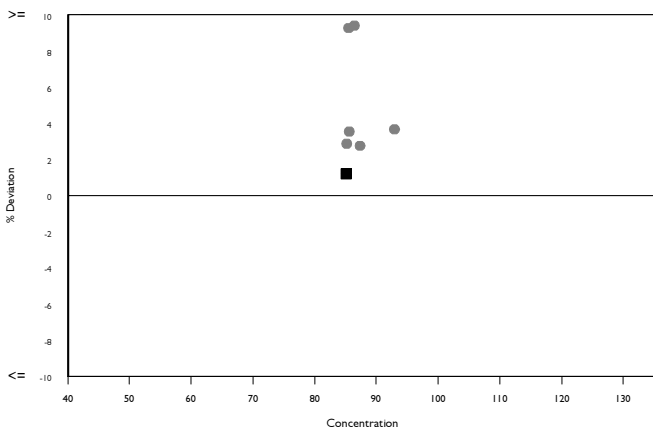
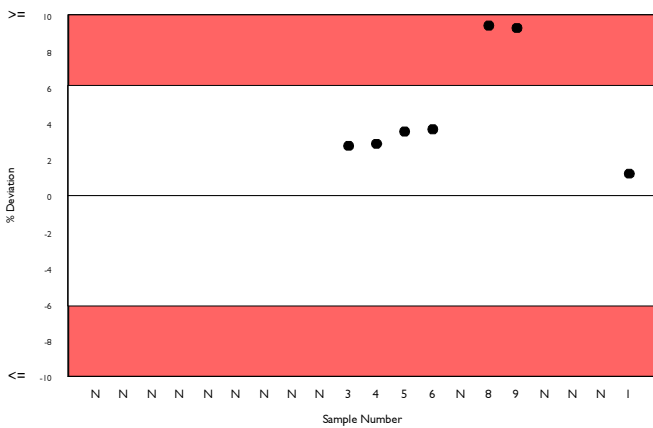
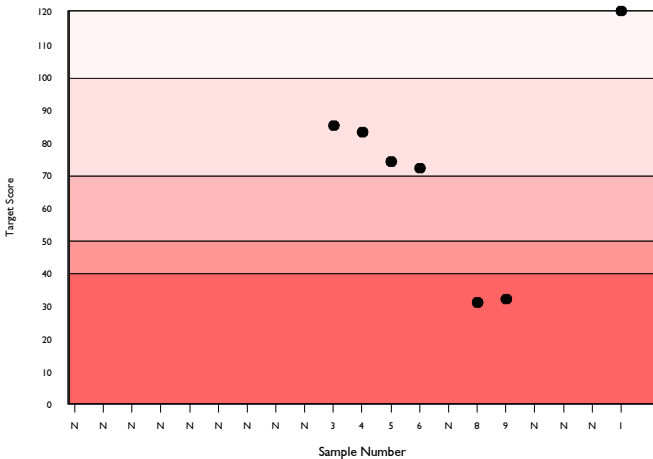
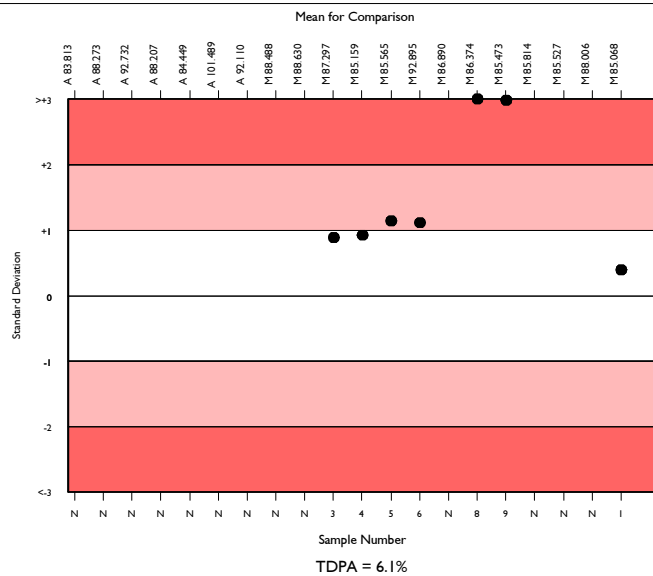
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5632	85.934	5.1	0.07	2.67	426
Horiba Yumizen H500/ 550	41	85.068	1.2	0.19	2.65	2

▲ Your Result	86.100	SDI	0.39
		RMSDI	Too Few
■ Mean for Comparison	85.068	TS	120
		RMST	Too Few
		%DEV	1.2
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	2.42%
Acceptable limits of performance for RIQAS	6.10%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	962	85.759	1.5	0.05
Abbott Cell-Dyn Ruby	382	74.832	1.8	0.09
Sysmex XS series	339	85.667	1.4	0.08
Sysmex XT series	281	85.596	1.5	0.10
Siemens/Bayer Advia 120/2120	272	77.759	1.9	0.11
Beckman Coulter DxH 600/800/900 Series	272	89.591	1.0	0.07
Sysmex XN-L Series (330/350/450/550)	242	85.644	1.4	0.09
Sysmex XP Series	232	81.577	2.0	0.14
Mindray BC1000/2000/3000 series	234	88.897	2.4	0.17
Nihon Kohden Celltac Alpha	224	89.592	2.5	0.18
Horiba ABX Pentra 60/80/XLR	157	83.501	1.5	0.12
Sysmex KX 21	145	82.267	1.8	0.16
Mindray BC-6000/6200/6600/6800	149	95.684	1.1	0.11
ABX Micros/Minos/ABC VET	145	85.324	3.0	0.26
Mindray BC 5100/5180/5300/5380/5390	100	93.080	1.9	0.22
Beckman Coulter LH700 Series	91	88.629	1.0	0.12
Beckman Coulter Ac. T 5 series	89	82.567	1.5	0.16
Nihon Kohden Celltac Es	71	90.587	2.1	0.28
Mindray BC 5000/5150/5130/5140	69	92.556	1.6	0.23
ABX Pentra 120/Nexus Series	75	82.120	1.3	0.15
Medonic M series/Swelab	69	85.696	3.0	0.39

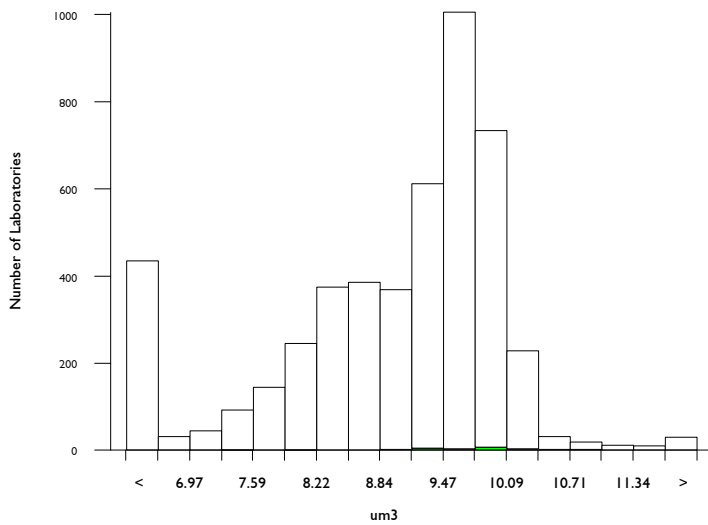


# Mean Platelet Volume, um<sup>3</sup>

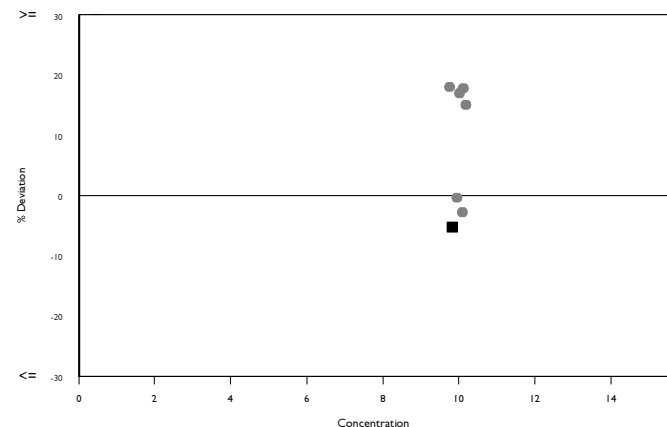
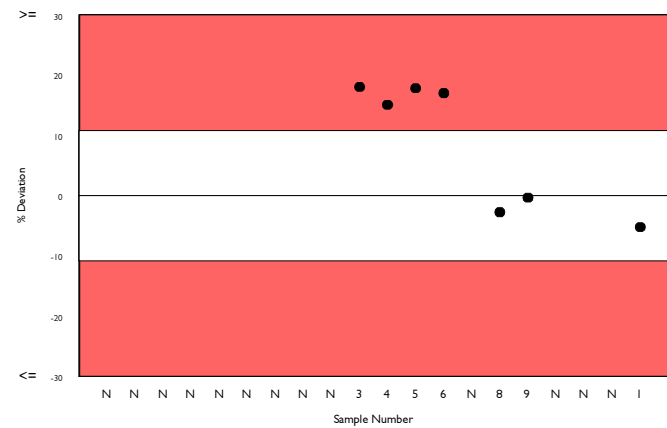
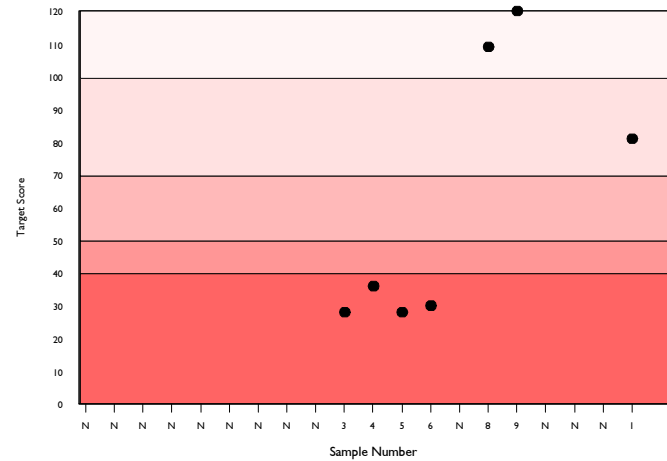
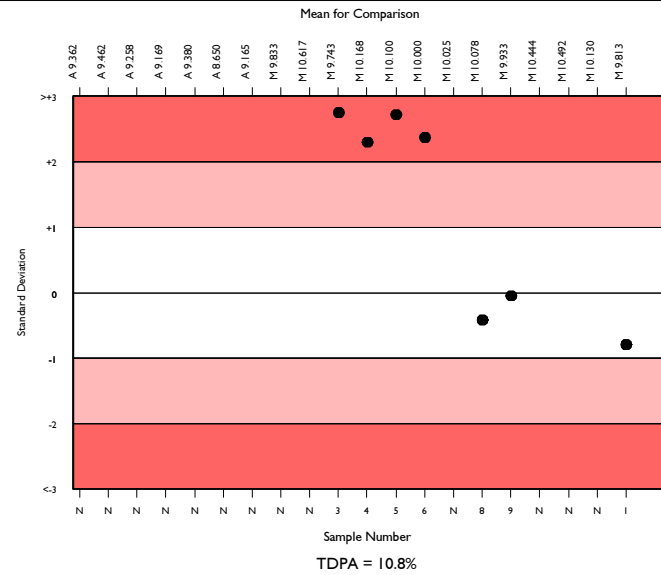
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	4389	9.160	9.1	0.02	0.60	405
Horiba Yumizen H500/ 550	23	9.813	5.0	0.13	0.64	3

▲ Your Result	9.300	SDI	-0.80
		RMSDI	Too Few
■ Mean for Comparison	9.813	TS	81
		RMTS	Too Few
		%DEV	-5.2
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	5.8%
Acceptable limits of performance for RIQAS	10.80%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	734	9.706	1.6	0.01
Abbott Cell-Dyn Ruby	286	4.161	5.3	0.02
Sysmex XS series	268	9.814	2.6	0.02
Sysmex XT series	219	9.485	1.9	0.02
Beckman Coulter DxH 600/800/900 Series	230	8.317	2.4	0.02
Nihon Kohden Celltac Alpha	210	7.974	11.0	0.08
Mindray BC 1000/2000/3000 series	208	8.927	6.0	0.05
Sysmex XP Series	189	9.335	1.8	0.02
Siemens/Bayer Advia 120/2120	190	9.796	5.9	0.05
Sysmex XN-L Series (330/350/450/550)	176	9.700	1.6	0.02
Mindray BC-6000/6200/6600/6800	125	10.001	2.1	0.02
Horiba ABX Pentra 60/80/XLR	124	9.205	4.3	0.04
Sysmex KX 21	118	9.206	2.3	0.02
ABX Micros/Minos/ABC VET	96	8.291	5.4	0.06
Mindray BC 5100/5180/5300/5380/5390	77	8.891	2.1	0.03
Beckman Coulter LH700 Series	68	8.320	2.6	0.03
Mindray BC 5000/5150/5130/5140	71	9.755	4.9	0.07
Nihon Kohden Celltac Es	62	7.436	7.5	0.09
ABX Pentra 120/Nexus Series	61	9.210	2.4	0.04
Medonic M series/Swelab	59	8.575	3.0	0.04
Beckman Coulter Ac. T 5 series	47	9.433	3.1	0.05

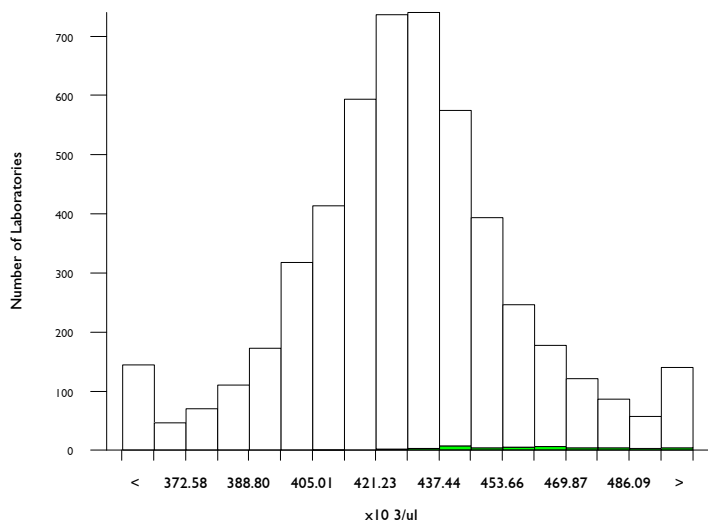


# Platelets (Impedance Count), x10<sup>3</sup>/ul

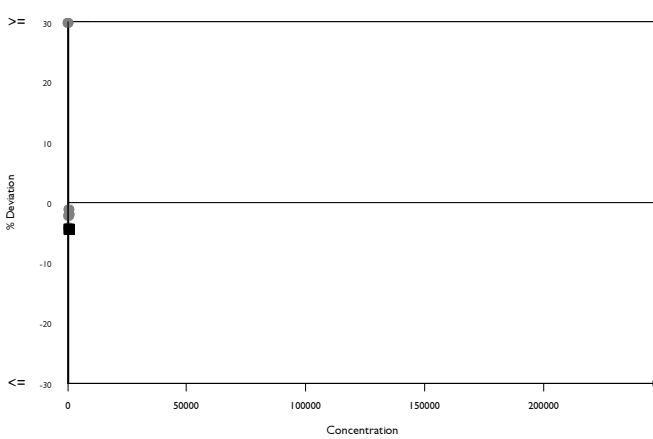
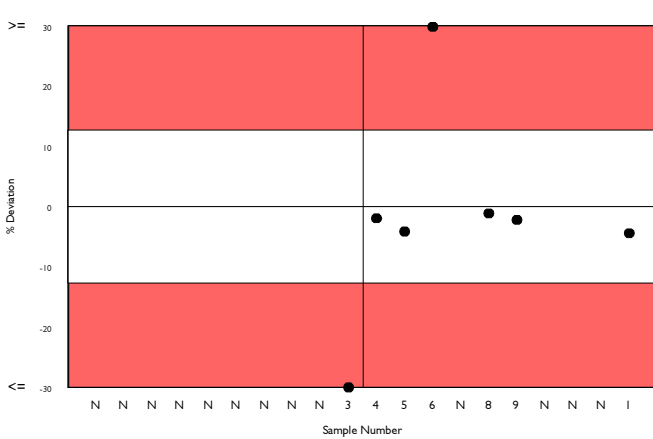
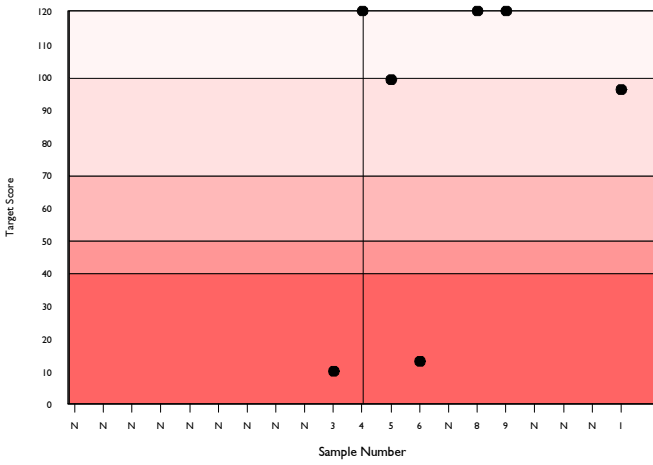
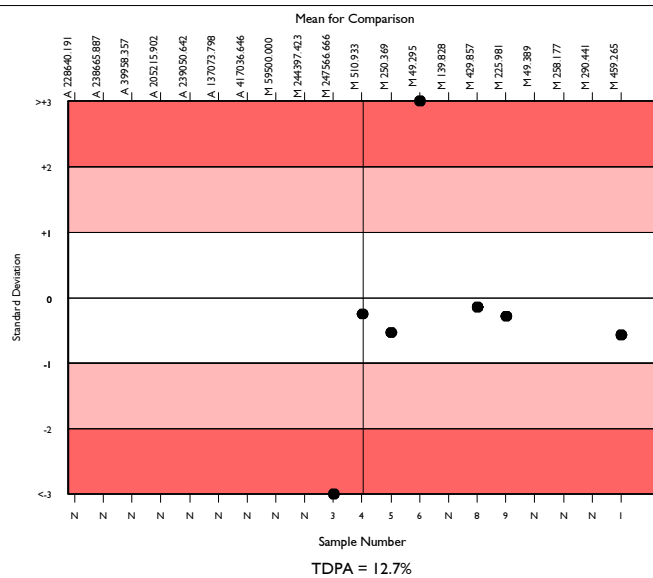
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	4719	429.338	5.0	0.39	33.15	418
Horiba Yumizen H500/ 550	39	459.265	4.2	3.89	35.46	4

▲ Your Result	439.000	SDI	-0.57
		RMSDI	Too Few
■ Mean for Comparison	459.265	TS	96
		RMTS	Too Few
		%DEV	-4.4
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	13.4%
Acceptable limits of performance for RIQAS	12.70%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	910	427.044	3.0	0.53
Sysmex XS series	307	419.917	3.8	1.12
Beckman Coulter DxH 600/800/900 Series	261	426.716	3.0	0.99
Sysmex XT series	261	420.333	3.8	1.23
Sysmex XP Series	239	469.405	5.0	1.91
Mindray BC 1000/2000/3000 series	229	424.877	5.2	1.84
Nihon Kohden Celltac Alpha	229	423.789	5.7	1.98
Sysmex XN-L Series (330/350/450/550)	222	428.092	2.9	1.03
Horiba ABX Pentra 60/80/XLR	160	436.256	3.8	1.66
Sysmex KX 21	152	456.514	5.8	2.70
ABX Micros/Minos/ABC VET	140	413.037	6.9	3.03
Mindray BC-6000/6200/6600/6800	138	447.319	3.0	1.44
Mindray BC 5100/5180/5300/5380/5390	101	427.465	3.9	2.10
Beckman Coulter LH700 Series	90	436.323	2.3	1.32
Beckman Coulter Ac. T 5 series	80	440.704	3.1	1.89
Nihon Kohden Celltac Es	76	432.819	4.8	3.00
Mindray BC 5000/5150/5130/5140	74	437.592	4.4	2.78
ABX Pentra 120/Nexus Series	68	441.426	2.7	1.79
Medonic M series/Swelab	67	407.242	5.6	3.49
Mindray BC 5600/5800	49	445.959	3.5	2.76
Human Humacount Series	45	438.689	6.9	5.67





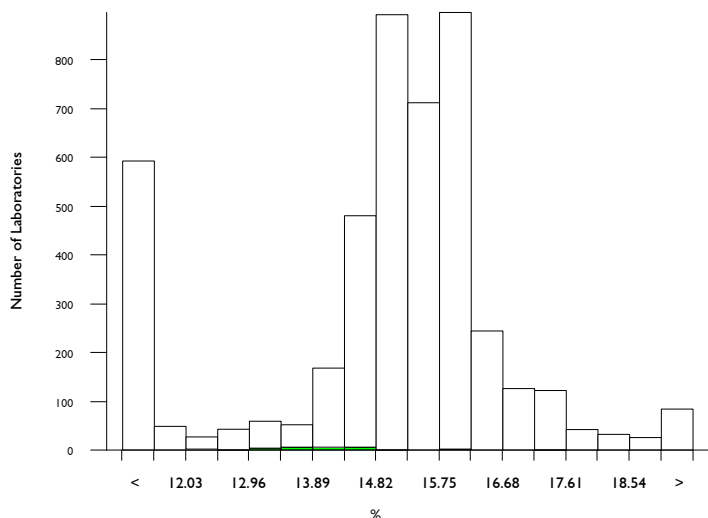


# Red Cell Dist. Width CV, %

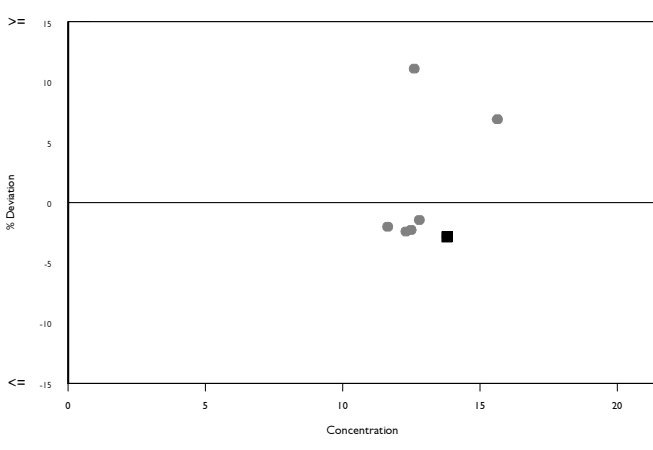
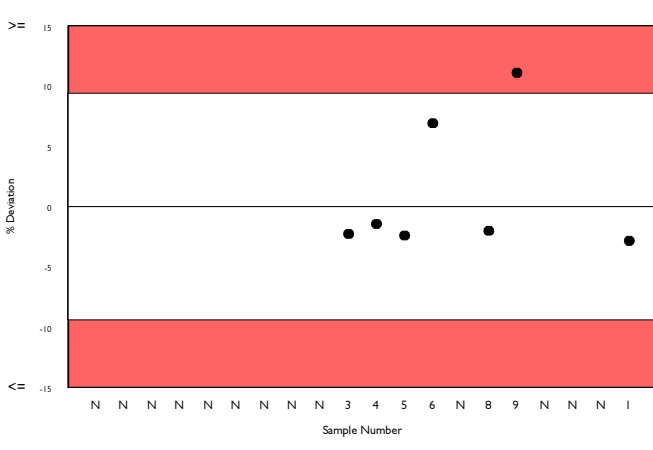
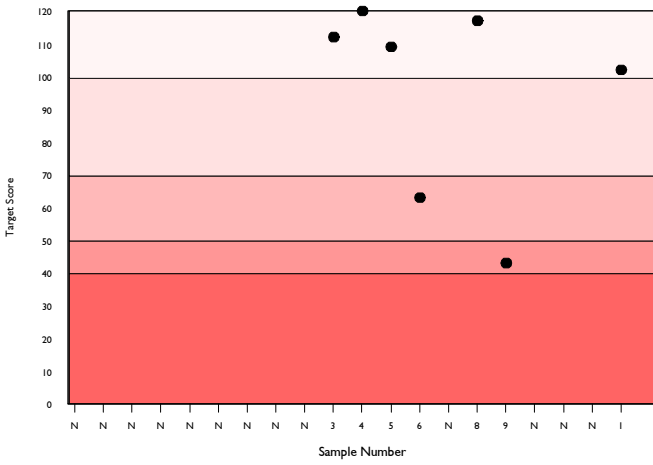
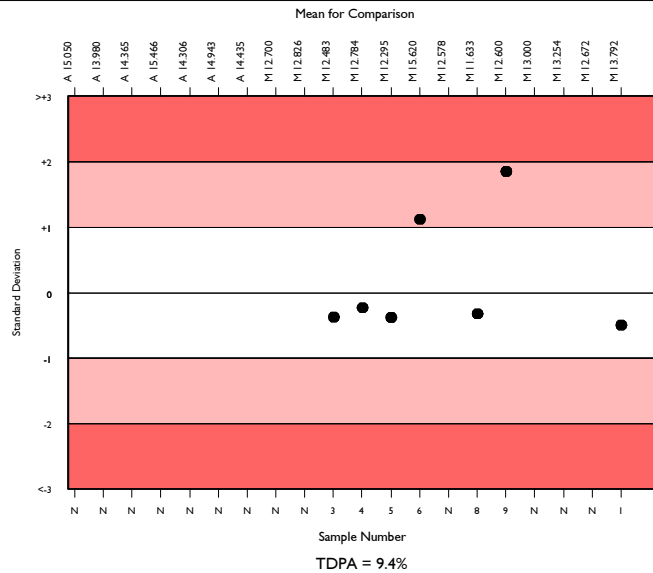
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	4071	15.291	8.1	0.02	0.87	574
Horiba Yumizen H500/ 550	26	13.792	4.9	0.17	0.79	3

▲ Your Result	13.400	SDI	-0.50
		RMSDI	Too Few
■ Mean for Comparison	13.792	TS	102
		RMTS	Too Few
		%DEV	-2.8
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	4.6%
Acceptable limits of performance for RIQAS	9.40%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	759	15.050	1.7	0.01
Abbott Cell-Dyn Ruby	276	10.484	3.9	0.03
Sysmex XS series	267	15.881	1.8	0.02
Sysmex XT series	220	15.732	1.5	0.02
Beckman Coulter DxH 600/800/900 Series	205	15.945	1.3	0.02
Siemens/Bayer Advia 120/2120	201	15.982	2.8	0.04
Nihon Kohden Celltac Alpha	187	15.383	4.5	0.06
Sysmex XP Series	179	10.962	3.4	0.04
Mindray BC 1000/2000/3000 series	184	14.889	4.2	0.06
Sysmex XN-L Series (330/350/450/550)	170	14.889	1.5	0.02
Mindray BC-6000/6200/6600/6800	126	15.854	1.1	0.02
Horiba ABX Pentra 60/80/XLR	117	14.861	5.8	0.10
Sysmex KX 21	92	11.208	3.7	0.05
Beckman Coulter Ac. T 5 series	74	14.831	3.9	0.08
Beckman Coulter LH700 Series	75	16.136	1.3	0.03
Mindray BC 5100/5180/5300/5380/5390	74	14.924	2.2	0.05
Mindray BC 5000/5150/5130/5140	62	17.087	4.2	0.11
ABX Micros/Minos/ABC VET	61	13.574	6.0	0.13
Nihon Kohden Celltac Es	61	17.190	7.1	0.19
ABX Pentra 120/Nexus Series	52	16.760	4.0	0.12
Medonic M series/Swelab	50	13.482	8.7	0.21

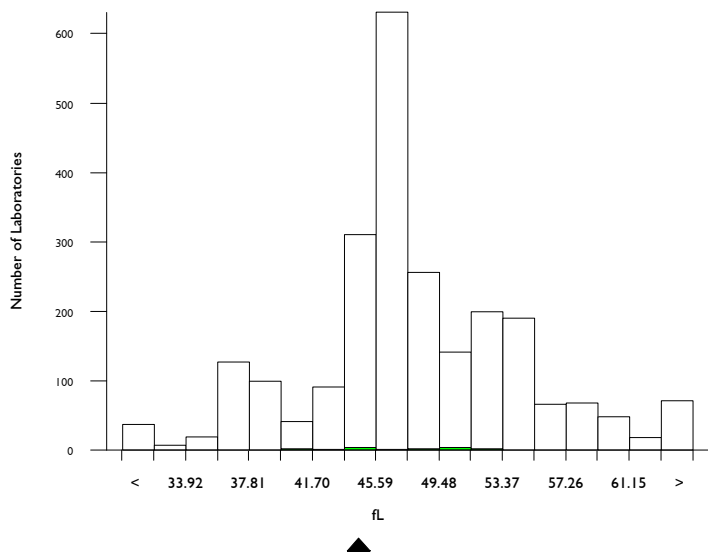


# Red Cell Dist. Width SD, fL

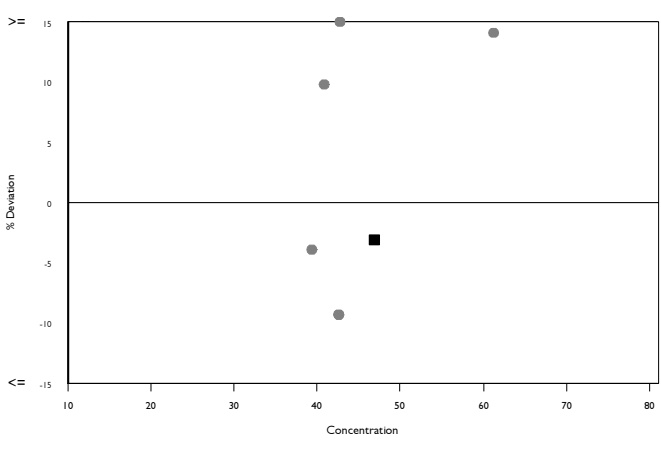
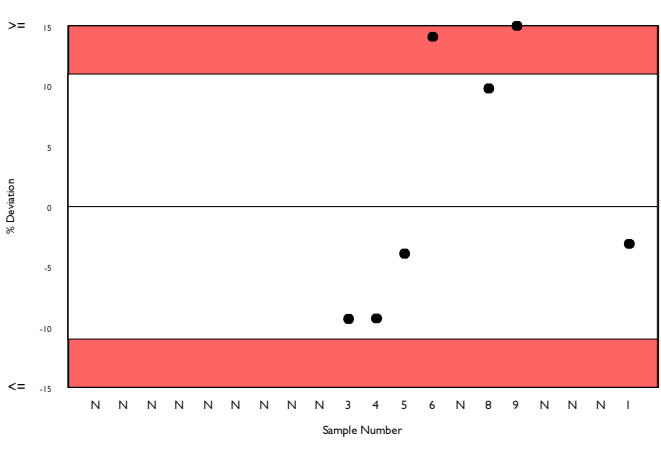
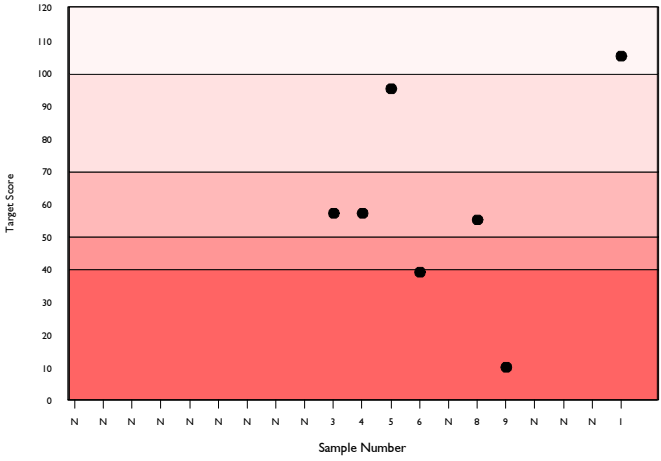
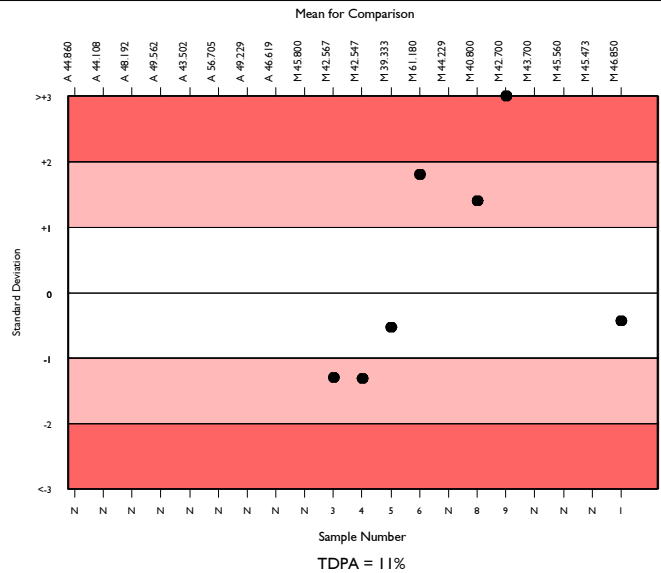
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2243	47.541	10.9	0.14	3.18	175
Horiba Yumizen H500/ 550	16	46.850	8.0	1.18	3.35a	0

▲ Your Result	45.400	SDI	-0.43
		RMSDI	Too Few
■ Mean for Comparison	46.850	TS	105
		RMTS	Too Few
		%DEV	-3.1
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	4.6%
Acceptable limits of performance for RIQAS	11.00%



Method	N	Mean	CV%	U <sub>m</sub>
Sysmex XN Series	502	46.064	2.5	0.06
Sysmex XS series	177	47.358	2.1	0.09
Sysmex XT series	153	47.168	2.3	0.11
Mindray BC 1000/2000/3000 series	158	44.441	4.9	0.22
Sysmex XP Series	148	37.276	2.7	0.10
Beckman Coulter DxH 600/800/900 Series	138	52.955	1.3	0.07
Mindray BC-6000/6200/6600/6800	108	53.873	1.6	0.10
Sysmex XN-L Series (330/350/450/550)	89	45.986	2.9	0.17
Sysmex KX 21	73	37.902	3.4	0.19
Nihon Kohden Celltac Alpha	48	55.524	5.5	0.55
Nihon Kohden Celltac Es	49	62.232	8.9	0.99
Mindray BC 5000/5150/5130/5140	42	59.031	1.8	0.20
Mindray BC 5100/5180/5300/5380/5390	40	57.580	2.2	0.25
Beckman Coulter LH700 Series	42	51.814	2.6	0.26
Medonic M series/Swelab	35	56.600	10.1	1.21
Erba Lachema Elite series	24	51.565	9.9	1.31
Human Humacount Series	17	51.918	9.7	1.52
Sysmex XE-2100	20	48.095	2.2	0.30
Mindray BC 5600/5800	15	50.387	3.3	0.53
Horiba ABX Pentra 60/80/XLR	17	45.565	8.8	1.21
Mindray BC 20/30	14	46.750	1.8	0.28





Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Haemoglobin	14.431	14.300	-0.37	Too Few	-0.9	Too Few	115	Too Few	
Haematocrit (HCT)	41.936	42.600	0.43	Too Few	1.6	Too Few	109	Too Few	
MCH	29.367	28.900	-0.51	Too Few	-1.6	Too Few	108	Too Few	
MCHC	34.488	33.500	-0.77	Too Few	-2.9	Too Few	83	Too Few	
MCV	85.068	86.100	0.39	Too Few	1.2	Too Few	120	Too Few	
Mean Platelet Volume	9.813	9.300	-0.80	Too Few	-5.2	Too Few	81	Too Few	
Platelets (Impedance Count)	459.265	439.000	-0.57	Too Few	-4.4	Too Few	96	Too Few	
RBC (Impedance Count)	4.934	4.950	0.15	Too Few	0.3	Too Few	120	Too Few	
Red Cell Dist. Width CV	13.792	13.400	-0.50	Too Few	-2.8	Too Few	102	Too Few	
Red Cell Dist. Width SD	46.850	45.400	-0.43	Too Few	-3.1	Too Few	105	Too Few	
WBC (Impedance Count)	19.218	19.800	0.67	Too Few	3.0	Too Few	89	Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

END OF REPORT