

Proteus Laboratories

- Sample 11 Cycle 17 - NO return
- see corrective action attached.

MONTHLY CLINICAL CHEMISTRY

CYCLE 17 SAMPLE 11

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: 03/12/2020

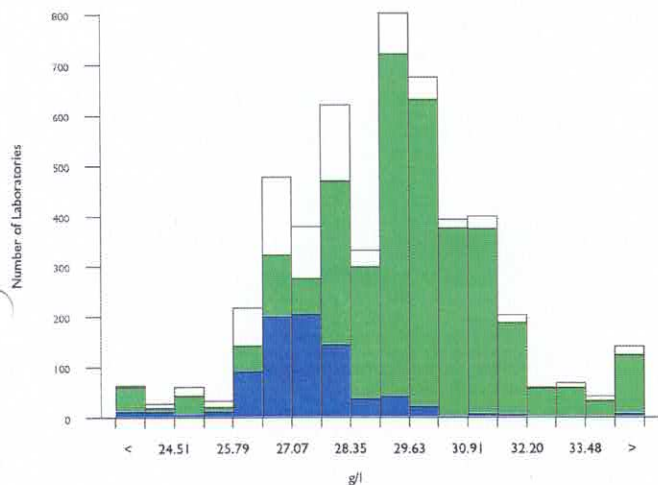
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Albumin, g/l

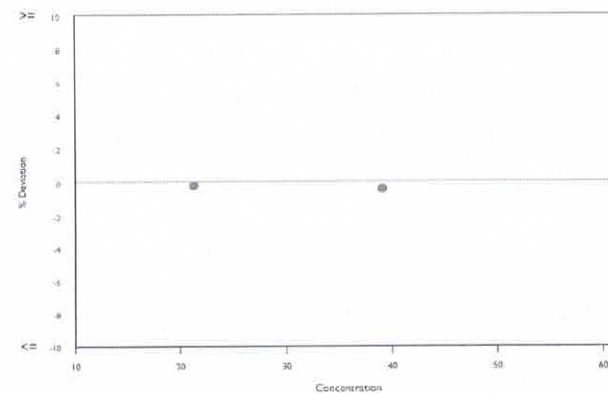
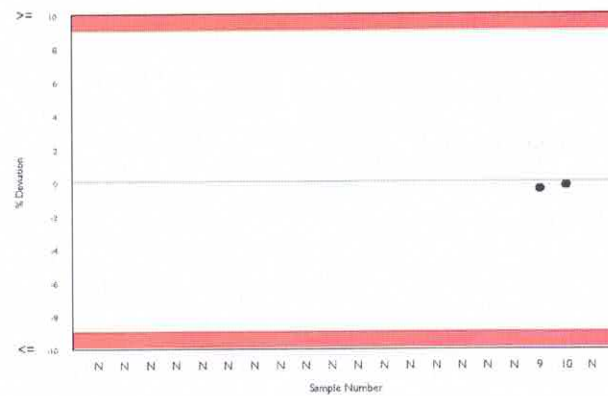
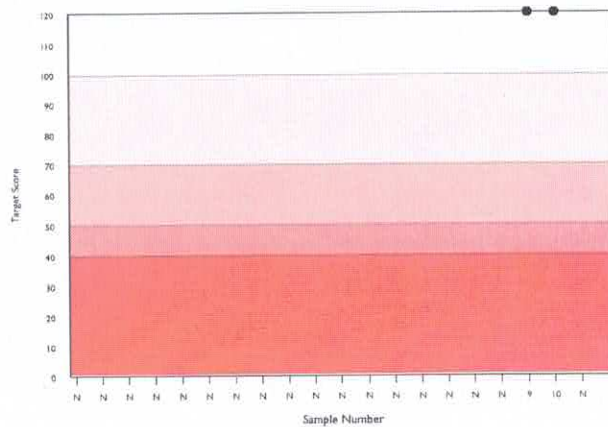
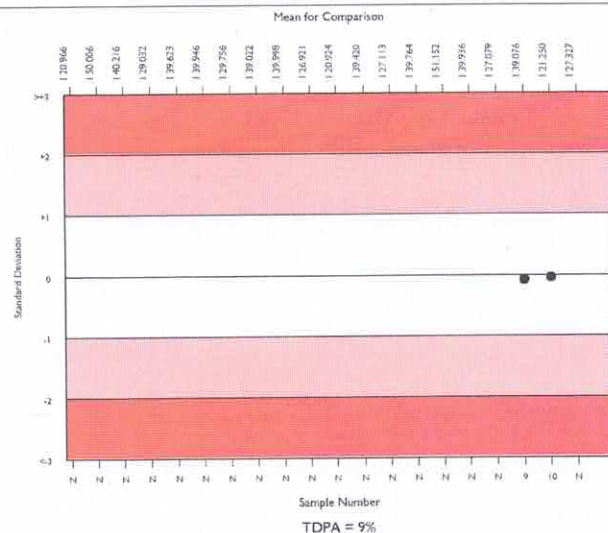
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4691	28.999	5.9	0.03	1.59	298
Bromocresol Green	3922	29.228	5.6	0.03	1.60	285
Beckman AU instruments	737	27.327	3.2	0.04	1.50	68

▲ Your Result	No Result	SDI	Too Few
		RMSDI	Too Few
■ Mean for Comparison	27.327	TS	Too Few
		RMTS	Too Few
		%DEV	Too Few
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: 9.00%



Method	N	Mean	CV%	U _m
Bromocresol Green	3922	29.228	5.6	0.03
Bromocresol Purple	490	27.622	4.4	0.07
Ortho Vitros MicroSlide Systems	141	27.581	3.2	0.09
Turbidimetric Assays	33	28.910	7.2	0.45
Agappe - Bromocresol Green	29	31.486	5.5	0.41
Other Dry Chemistry	16	32.938	5.1	0.53
Nephelometric Assays	5	30.260	10.2	1.72
Electrophoresis	3	31.467	24.6	5.58

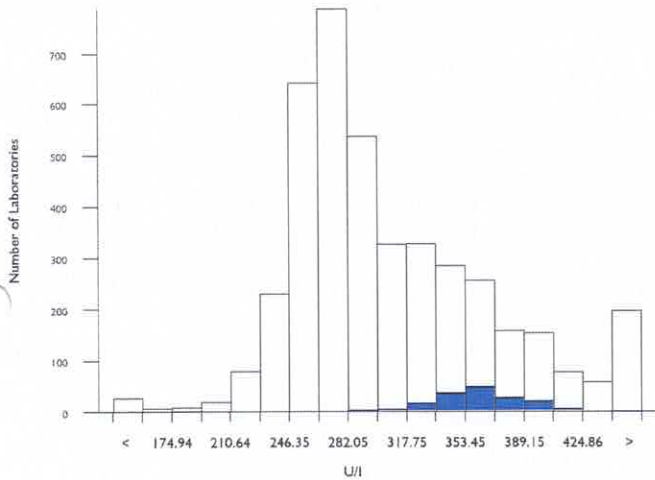


Alkaline Phosphatase, U/I @ 37°C

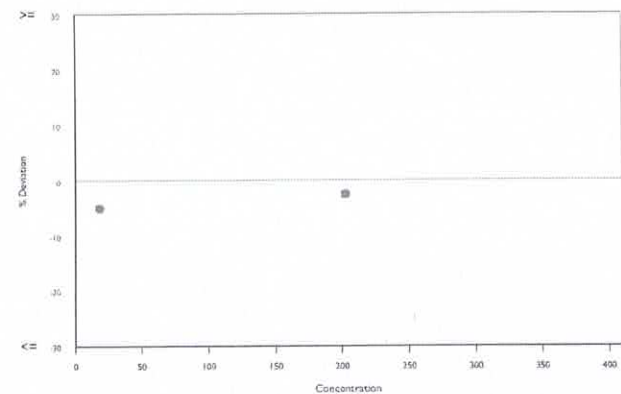
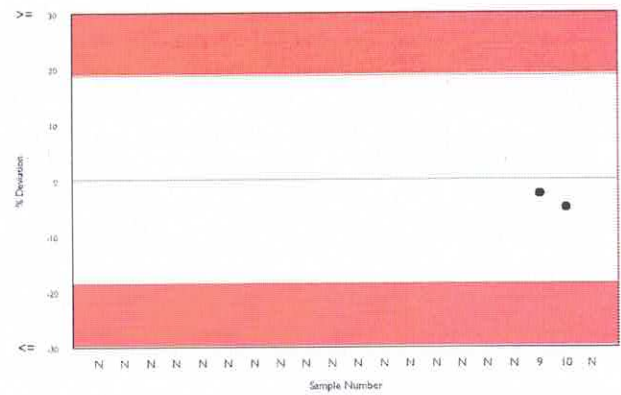
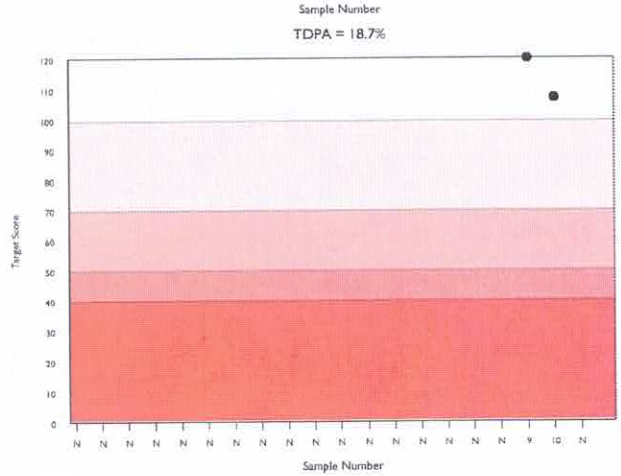
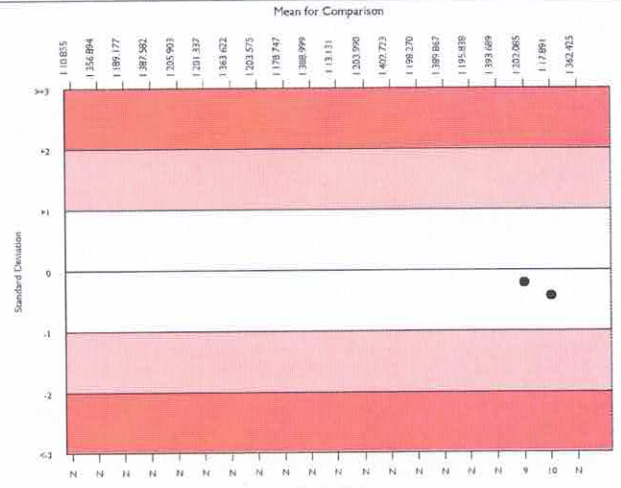
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3871	299.904	15.9	0.96	34.10	297
Beckman AMP (Calibrator)	156	362.436	6.2	2.24	41.20	12
Beckman AU instruments	153	362.425	6.2	2.27	41.20	12

Legend	Your Result	No Result	SDI	RMSDI	Too Few
▲					
■	Mean for Comparison	362.425	TS	RMTS	Too Few
			%DEV	RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: 18.70%



Method	N	Mean	CV%	U _m
AMP optimised to IFCC	1504	314.685	11.8	1.20
Roche AMP buffer IFCC	1021	261.301	4.9	0.50
Diethanolamine buffer, DEA	442	413.559	14.7	3.63
Siemens/Dade Dimension AMP buffer	206	280.091	2.8	0.68
AMP non-optimised	172	311.929	8.8	2.60
Ortho Vitros MicroSlide Systems	161	236.572	6.9	1.60
Beckman AMP (Calibrator)	156	362.436	6.2	2.24
Colorimetric	77	282.925	11.1	4.47
Other AMP kits	57	296.350	4.9	2.39
Agappe - DGKC-SCE	21	381.078	8.0	8.31
Other Dry Chemistry	17	349.886	7.2	7.61
Beckman AMP (Extinction Coeff)	8	349.300	5.9	9.16
AMP optimised to NVKC/SFBC	6	326.167	17.6	29.23
Fuji Dri-Chem JSCC	3	379.000	23.9	65.26
Tris/carbonate buffer	4	284.000	9.1	16.14
AMPD optimised to JSCC	2	272.500	3.4	8.12

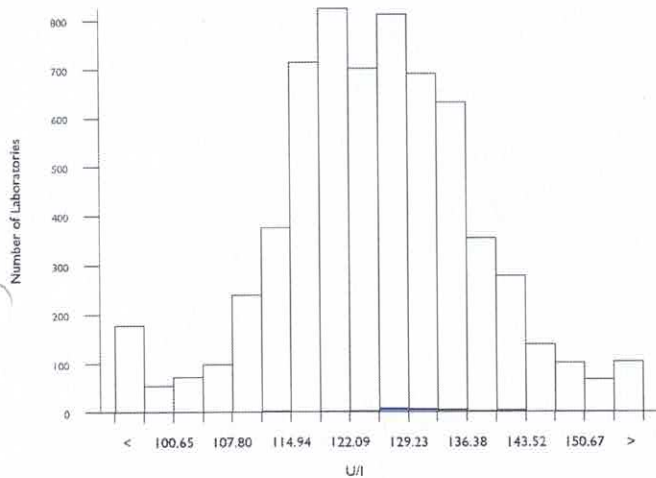


ALT (GPT), U/I @ 37°C

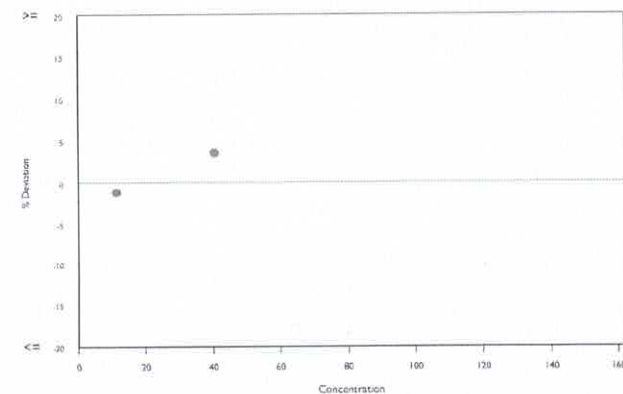
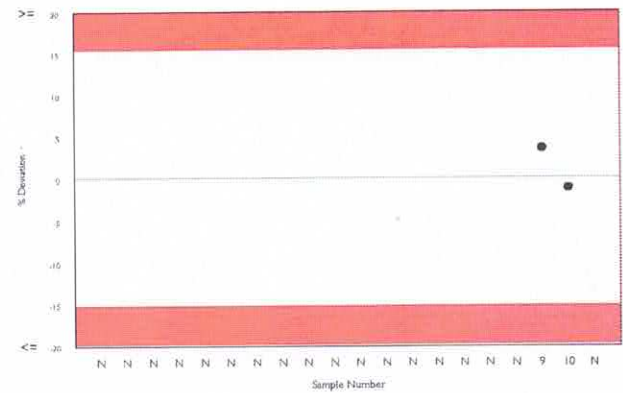
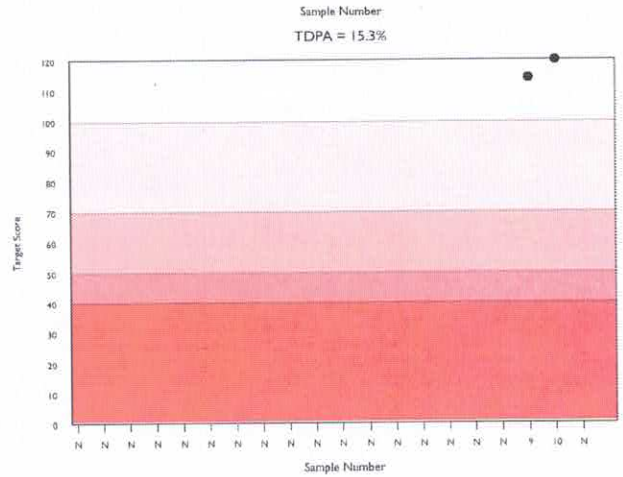
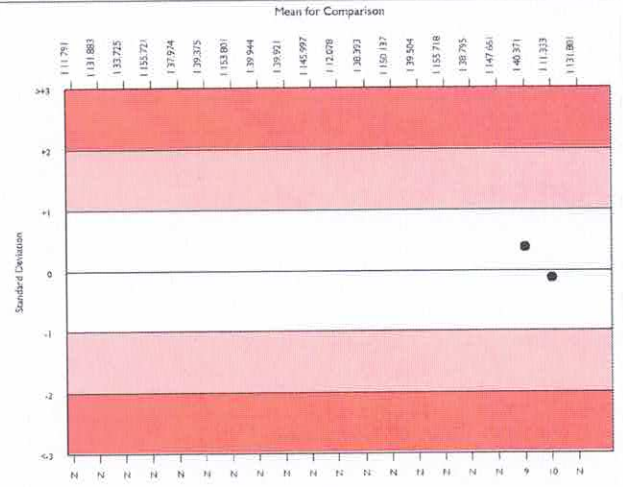
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5953	125.665	7.6	0.15	11.69	476
Beckman IFCC Ref. with P5P	29	132.099	4.5	1.39	12.29	5
Beckman AU instruments	23	131.801	3.9	1.34	12.26	2

▲ Your Result	No Result	SDI	RMSEI	Too Few
▲ Mean for Comparison	131.801	TS	RMTS	Too Few
		%DEV	RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.30%



Method	N	Mean	CV%	U _m
Tris buffer without P5P	4474	124.038	7.7	0.18
Tris buffer with P5P	455	130.623	6.3	0.48
Beckman Mod. IFCC Ref. without P5P	441	128.605	3.7	0.28
Siemens/Dade standard nonIFCC correlated	162	134.671	3.9	0.51
Ortho Vitros MicroSlide Systems	114	131.592	4.0	0.62
Ortho Vitros MicroSlide visible	45	129.964	3.5	0.85
Agappe - IFCC	44	132.571	9.6	2.40
Colorimetric	34	117.209	6.3	1.58
Beckman IFCC Ref. with P5P	29	132.099	4.5	1.39
Other Dry Chemistry	25	124.436	5.8	1.80
Phosphate buffer, DGKC	27	123.171	12.0	3.54
Tris buffer, SCE	23	122.415	10.3	3.29
Tris buffer with P5P, NVKC	16	128.788	17.5	7.03
Beckman (Extinction Coefficient)	2	123.850	11.2	12.31

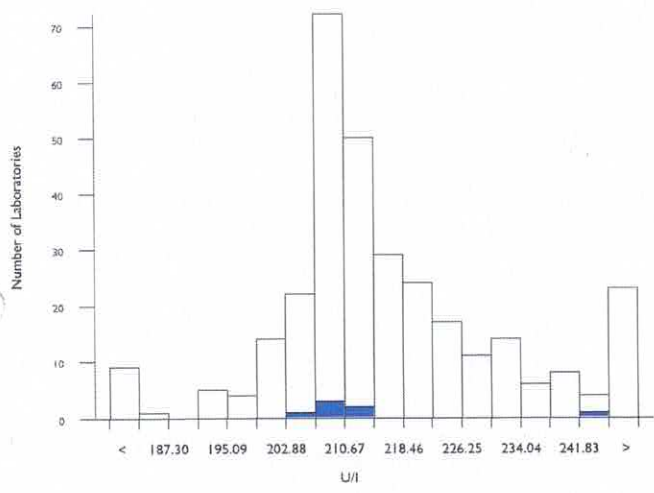
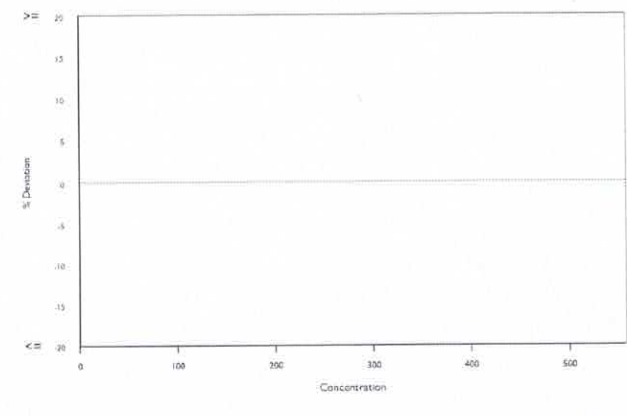
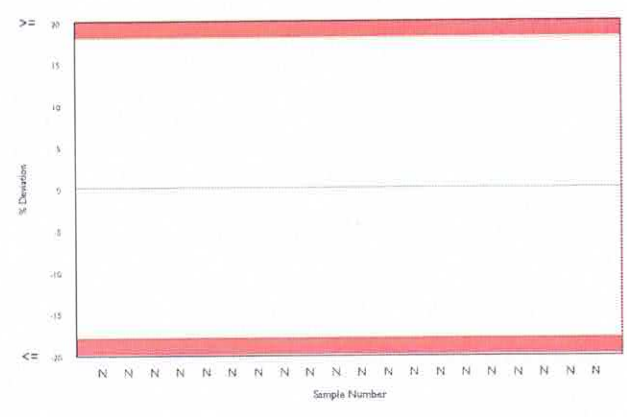
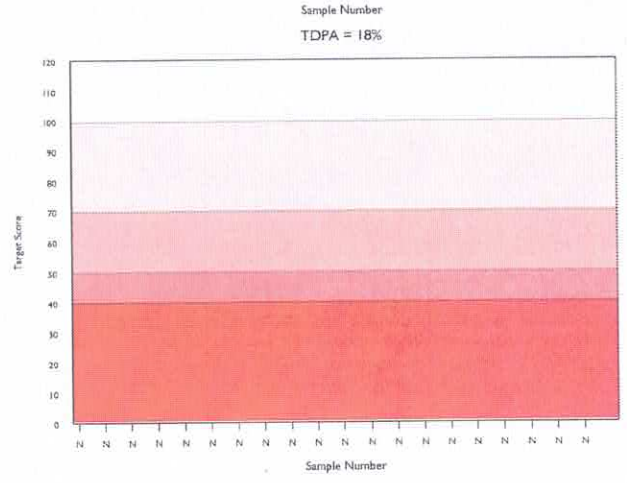
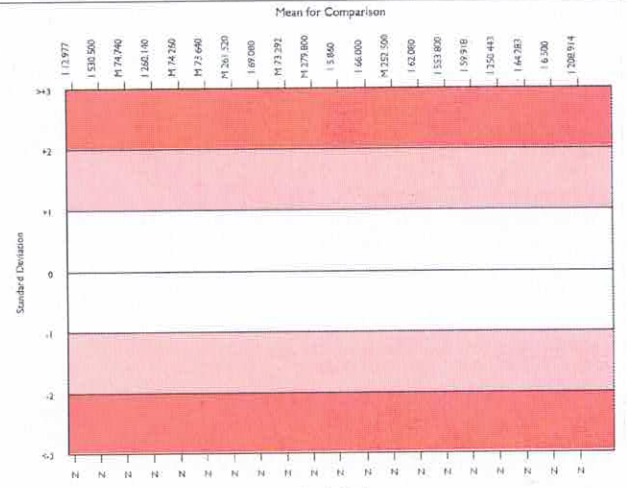


Amylase, Pancreatic, U/I @ 37°C

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	278	214.570	4.8	0.78	23.48	37
Beckman Synchron/CX/LXi/DxC	6	208.914	1.2	1.26	22.86	1
Beckman AU instruments	6	208.914	1.2	1.26	22.86	1

▲ Your Result	No Result	SDI	RMMSDI	Too Few
▲ Mean for Comparison	208.914	TS	RMTS	Too Few
		%DEV	RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	18.00%



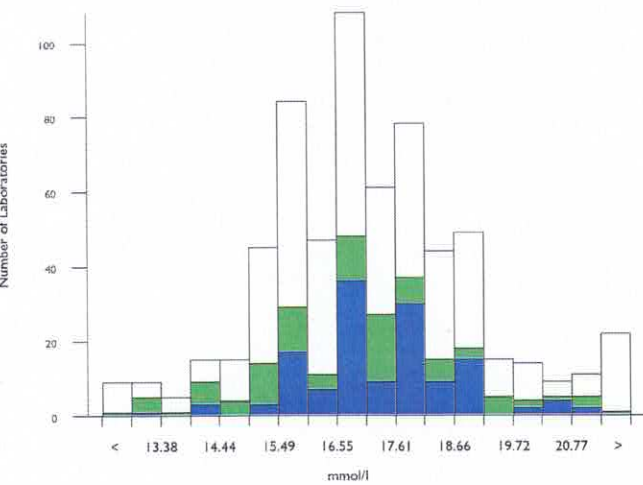
Method	N	Mean	CV%	U _m
Immunoinhibition, EPS substrate	138	216.663	5.5	1.26
Roche Liquid Stable pNPG7	113	211.096	3.0	0.74
Amyloclastic Methods	7	213.057	4.7	4.69
Other Dry Chemistry	8	224.400	18.5	18.30
Beckman Synchron/CX/LXi/DxC	6	208.914	1.2	1.26
Randox Liquid Stable pNPG7	6	240.967	5.5	6.71

Bicarbonate, mmol/l

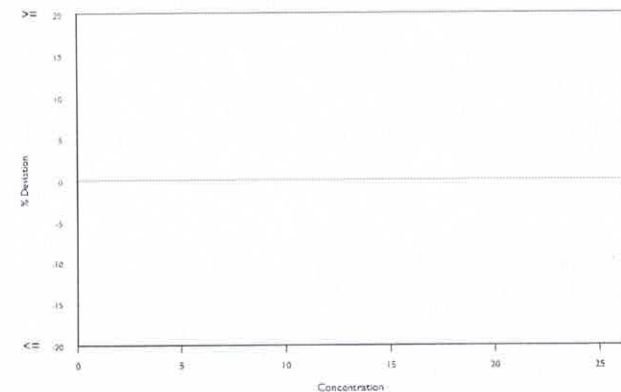
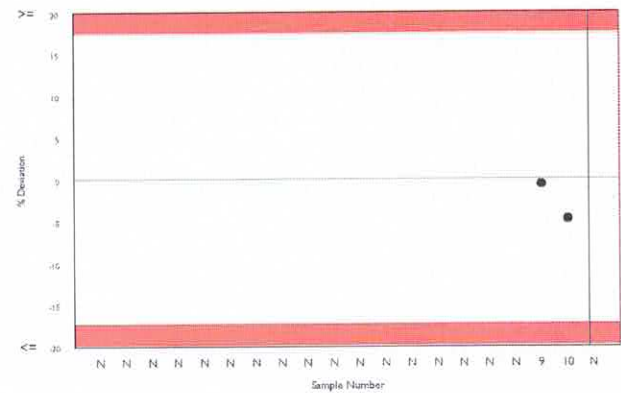
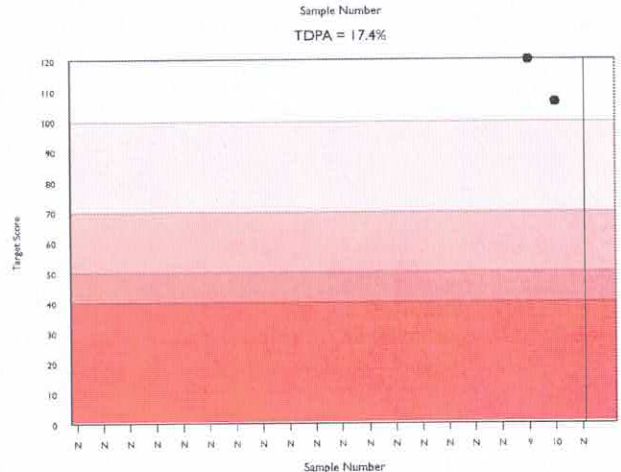
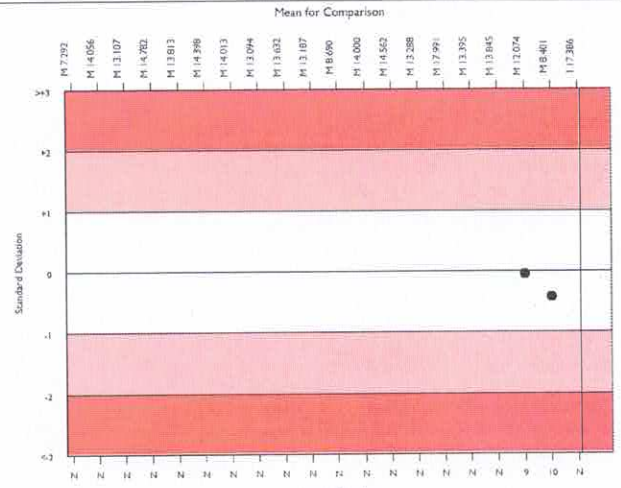
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	583	17.082	8.2	0.07	1.81	57
PEP Carboxylase	221	17.095	7.7	0.11	1.81	18
Beckman AU instruments	128	17.386	6.0	0.11	1.84	10

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	17.386	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: 17.40%



Method	N	Mean	CV%	U _m
Enzymatic	263	17.048	7.6	0.10
PEP Carboxylase	221	17.095	7.7	0.11
Ortho Vitros MicroSlide Systems	33	18.503	8.3	0.34
Ion selective electrode	24	15.604	19.1	0.76
Colorimetric	23	16.250	9.3	0.39
Other Dry Chemistry	12	17.383	14.5	0.91
Manometric	8	17.519	15.1	1.17
Differential rate pH change	6	15.867	9.0	0.73

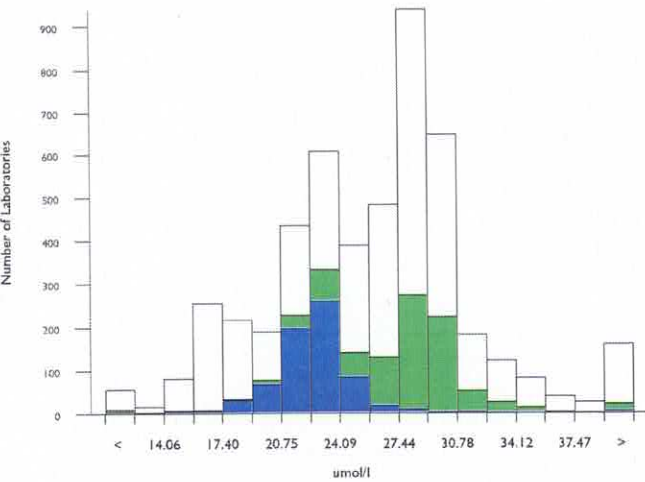


Bilirubin, Direct, umol/l

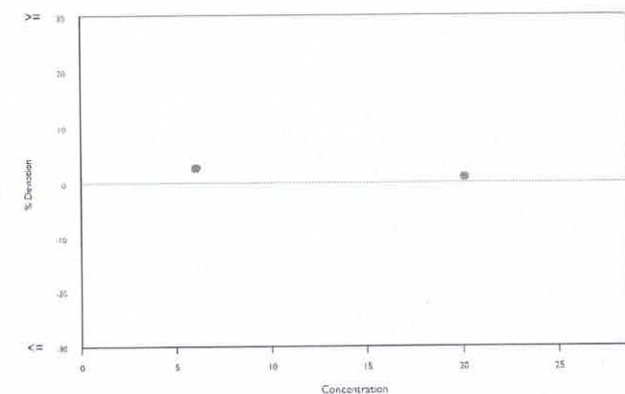
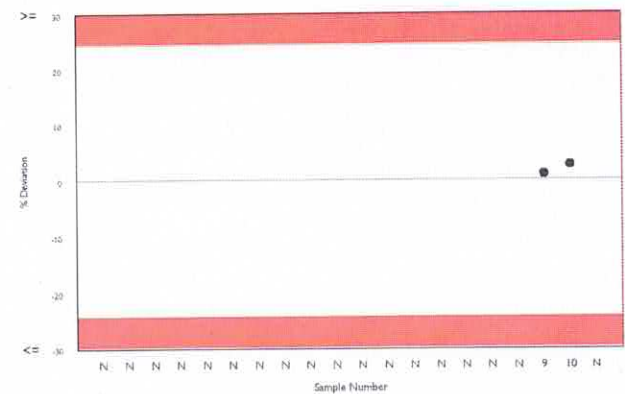
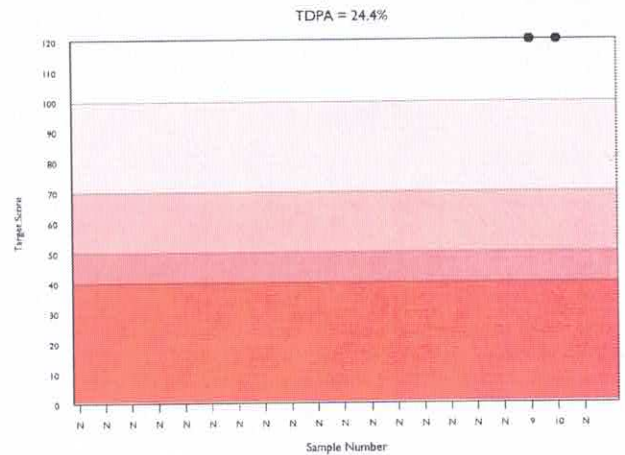
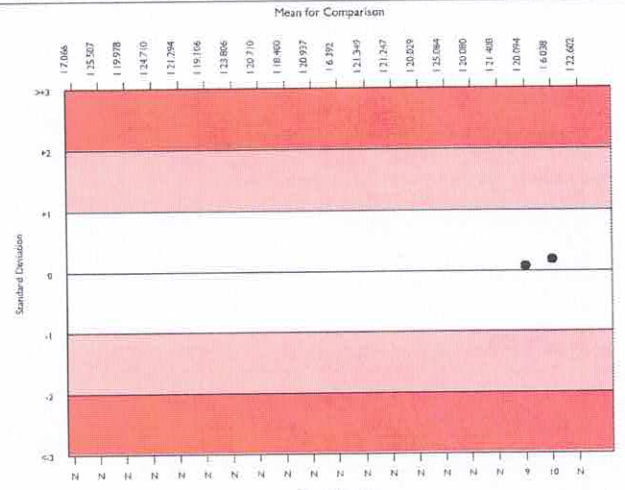
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4565	25.769	17.3	0.08	3.82	351
Dichlorophenyl Diazonium	1497	25.529	13.7	0.11	3.79	83
Beckman AU instruments	634	22.602	6.9	0.08	3.35	64

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	22.602	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation N/A
 Acceptable limits of performance for RIQAS 24.40%



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	1712	26.302	16.0	0.13
Dichlorophenyl Diazonium	1497	25.529	13.7	0.11
Diazo with Dichloroaniline	414	27.701	8.4	0.14
Diazo/ Sulphanilic Siemens Dimension	271	17.034	4.6	0.06
Oxidation to Biliverdin/Vanadate	220	30.437	11.2	0.29
Roche DPD JG standardised	142	28.727	5.1	0.15
Roche DPD Doumas standardised	145	26.707	10.3	0.29
Diazo/Sulphanilic Beckman DxC	72	17.728	14.7	0.38
Agappe - DIAZO	22	19.125	22.1	1.12
Other Dry Chemistry	20	34.529	19.0	1.84
Roche (US calibrator only)	3	30.557	13.7	3.03

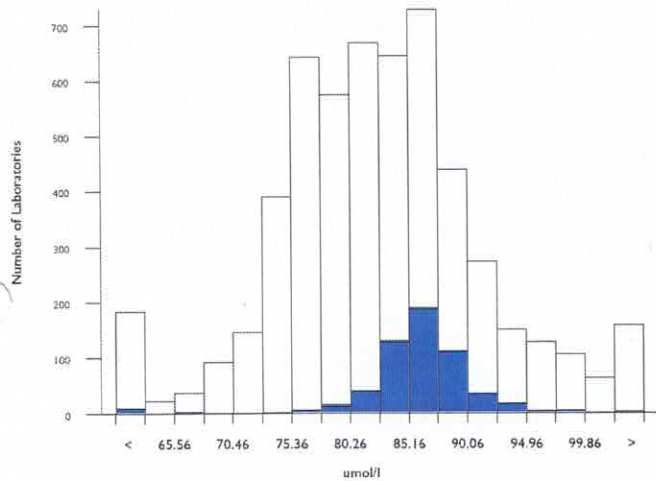


Bilirubin, Total, umol/l

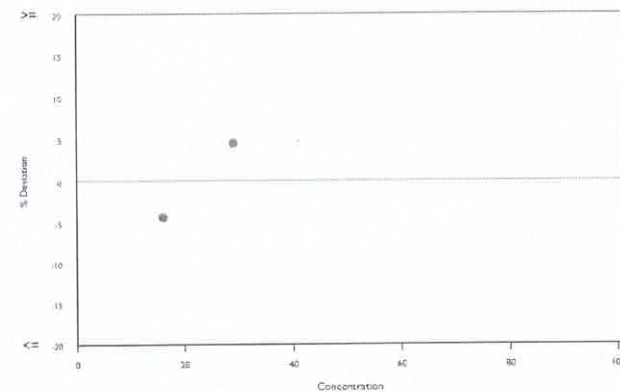
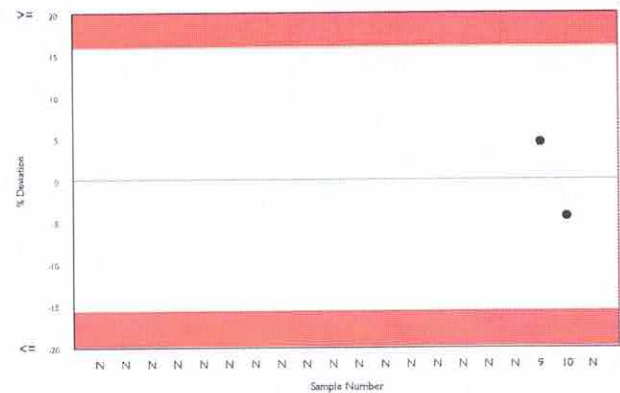
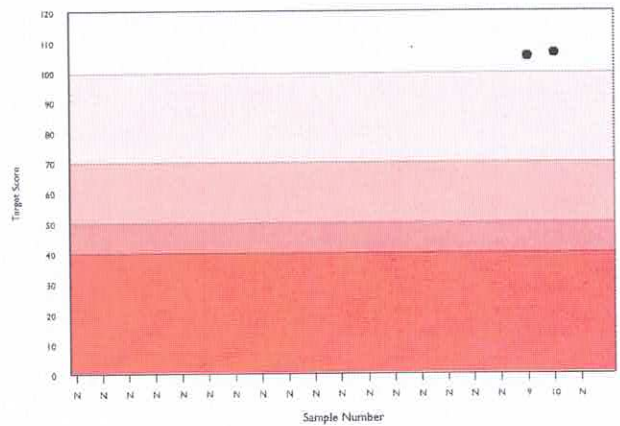
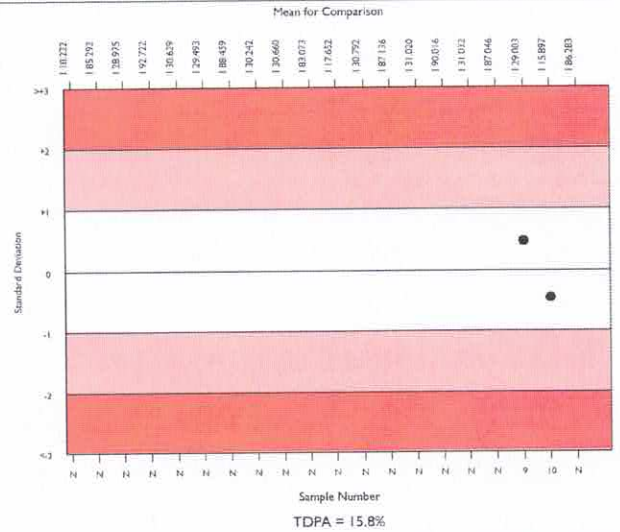
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4992	82.713	7.9	0.12	7.95	445
DPD (Beckman AU)	519	86.264	3.1	0.15	8.29	55
Beckman AU instruments	511	86.283	3.0	0.15	8.29	54

▲ Your Result	No Result	SDI	RMST	Too Few
▲ Mean for Comparison	86.283	TS	RMTS	Too Few
		%DEV	RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	15.80%



Method	N	Mean	CV%	U _m
Diazo with Sulphanilic Acid	1989	83.586	8.1	0.19
Dichlorophenyl Diazonium	1120	79.398	6.5	0.19
DPD (Beckman AU)	519	86.264	3.1	0.15
Diazonium ion	439	78.452	5.4	0.25
Diazo with Dichloroaniline	416	84.909	6.7	0.35
Oxidation to Biliverdin/Vanadate	237	93.625	6.6	0.50
Ortho Vitros MicroSlide System Total Bil	148	77.543	5.4	0.43
Other Dry Chemistry	24	74.722	5.2	0.99
Nitrobenzenediazonium Salt	21	80.677	5.0	1.10
Agappe - TAB	15	85.818	6.1	1.68
Agappe - DMSO	8	84.318	7.9	2.96
Direct Spectrophotometry	3	91.149	9.0	5.89
Vitros DT60/DT60 II Total Bil	2	76.095	1.6	1.07

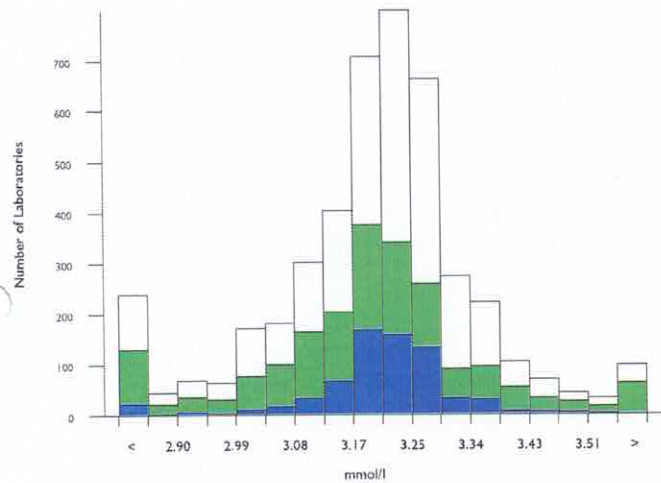


Calcium, mmol/l

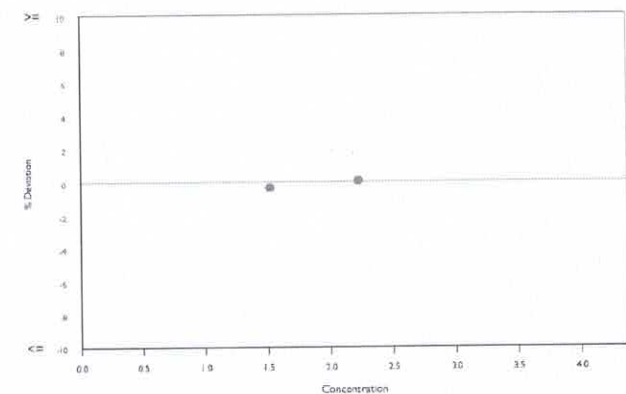
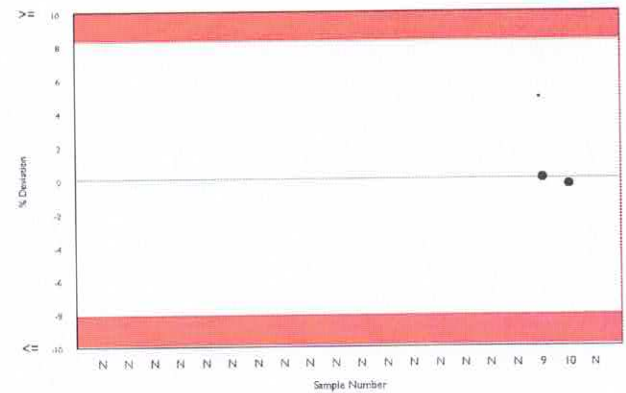
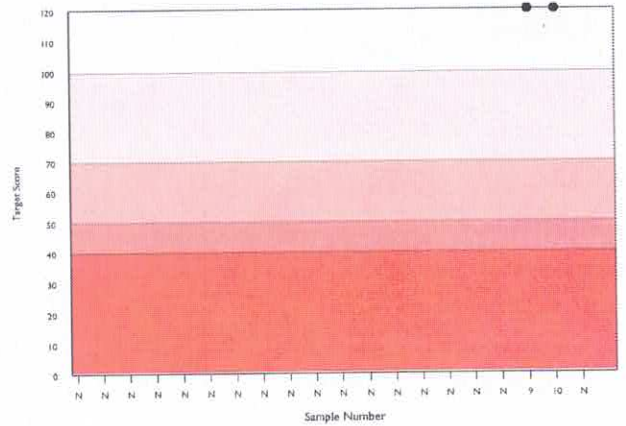
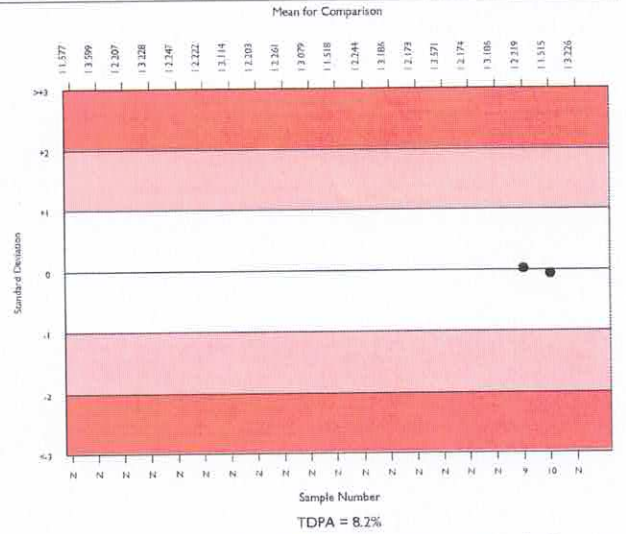
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4135	3.214	3.6	0.00	0.16	351
Arsenazo	1931	3.205	3.9	0.00	0.16	178
Beckman AU instruments	646	3.226	2.2	0.00	0.16	60

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	3.226	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: 8.20%



Method	N	Mean	CV%	U _m
Arsenazo	1931	3.205	3.9	0.00
Cresolphthalein complexone	1125	3.209	3.8	0.00
NM-BAPTA	721	3.249	2.0	0.00
Ortho Vitros MicroSlide Systems	155	3.199	2.2	0.01
Ion selective electrode	96	3.097	6.7	0.03
Other Dry Chemistry	23	3.412	6.6	0.06
Phosphonazo	18	3.188	5.3	0.05
Agappe - ARSENAZO	17	3.129	5.9	0.06
Methylthymol blue	16	3.282	4.3	0.04
Atomic absorption	3	2.970	10.8	0.23
Agappe - OCPC	3	3.325	3.6	0.09

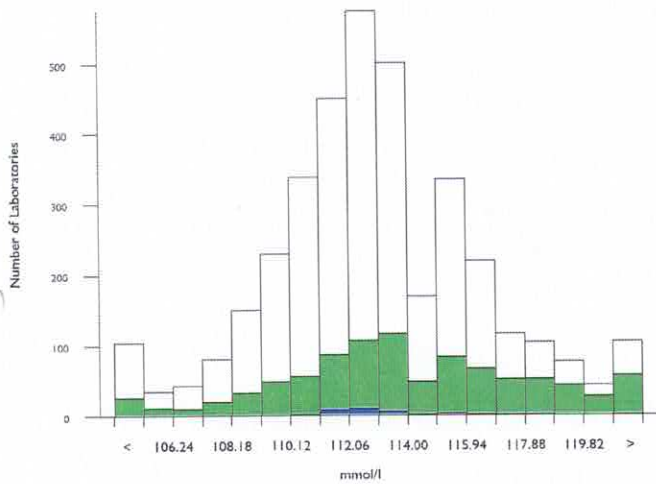
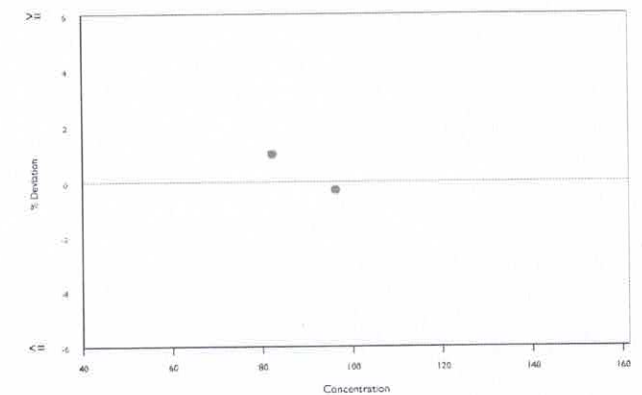
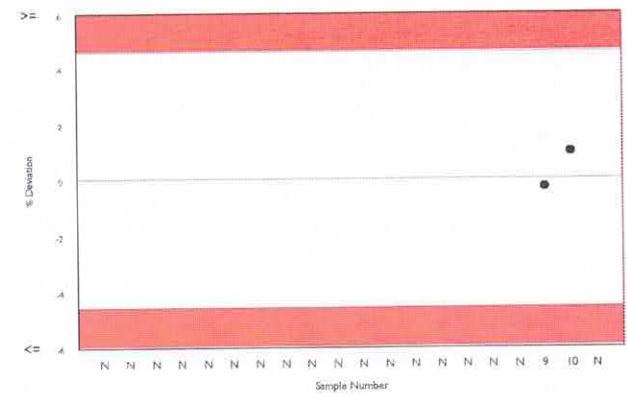
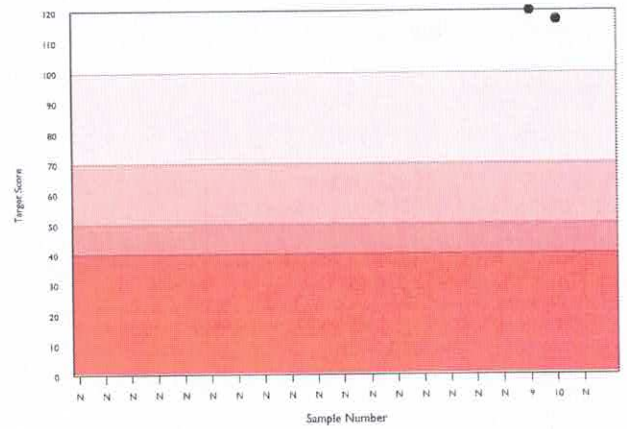
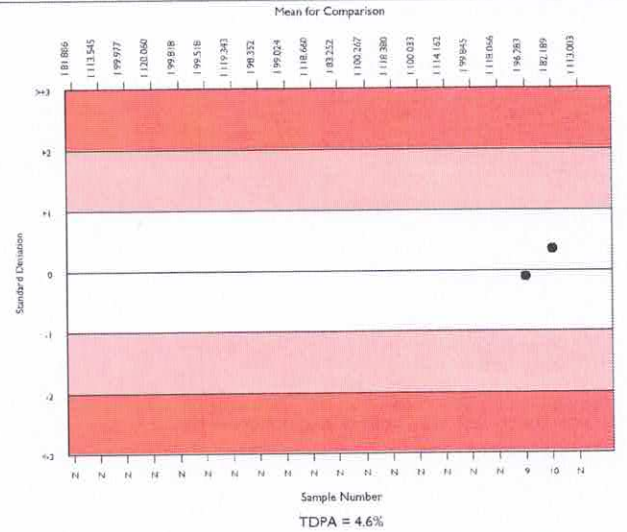


Chloride, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3368	113.033	2.3	0.06	3.16	297
ISE, direct	871	114.054	2.9	0.14	3.19	64
Beckman AU instruments	32	113.003	1.2	0.29	3.16	4

▲ Your Result	No Result	SDI	Too Few
		RMSDI	Too Few
■ Mean for Comparison	113.003	TS	Too Few
		RM	Too Few
		%DEV	Too Few
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	4.60%



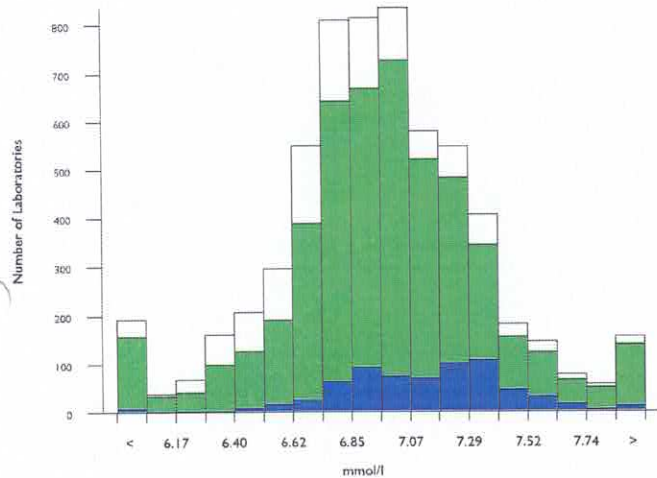
Method	N	Mean	CV%	U _m
ISE, indirect	2259	112.739	2.0	0.06
ISE, direct	871	114.054	2.9	0.14
Colorimetric	122	111.834	3.4	0.43
Ortho Vitros MicroSlide Systems	107	114.628	2.0	0.28
Other Dry Chemistry	17	113.112	2.2	0.75
Optical Fluorescence	9	122.111	6.0	3.05
Agappe - THIOCYANATE	4	104.450	0.5	0.33

Cholesterol, mmol/l

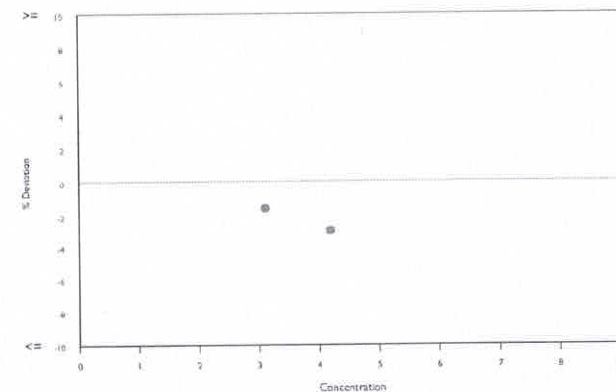
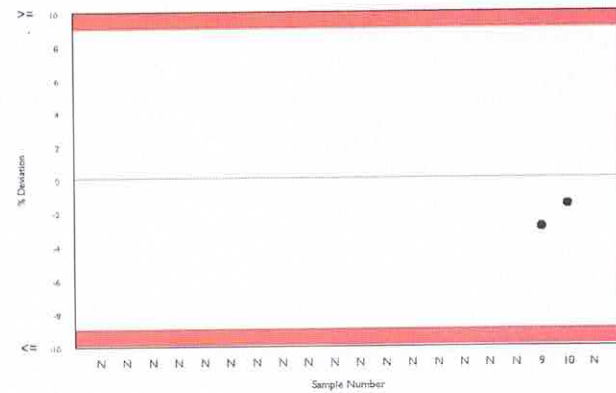
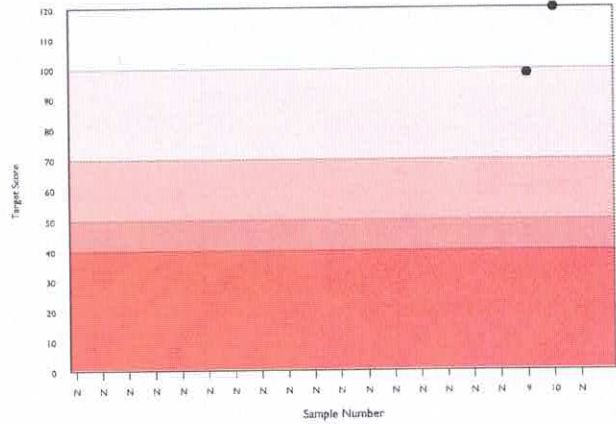
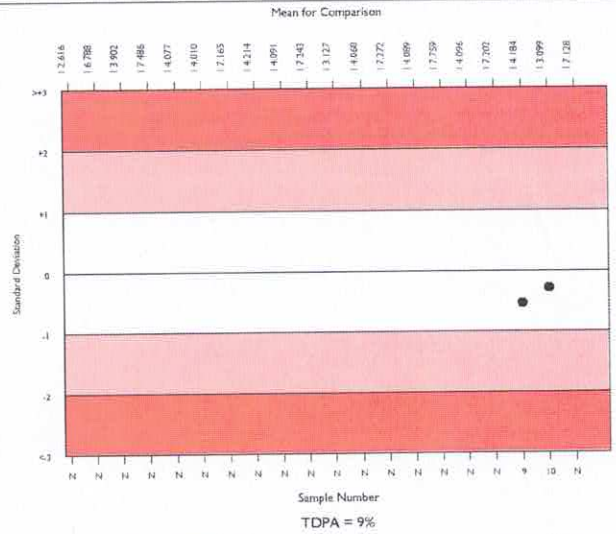
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	5632	6.963	4.3	0.00	0.38	481
Cholesterol Oxidase - Abell Kendall	4535	6.993	4.1	0.01	0.38	408
Beckman AU instruments	646	7.128	3.8	0.01	0.39	35

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	7.128	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	9.00%



Method	N	Mean	CV%	U _m
Cholesterol Oxidase - Abell Kendall	4535	6.993	4.1	0.01
Cholesterol Oxidase - IDMS	539	6.979	4.0	0.02
Siemens Dimension	239	6.576	2.8	0.02
Ortho Vitros MicroSlide Systems	160	6.692	3.3	0.02
Cholesterol Dehydrogenase	66	7.026	5.0	0.05
Agappe - CHOD-PAP	41	6.874	4.5	0.06
Other Dry Chemistry	29	6.764	3.8	0.06

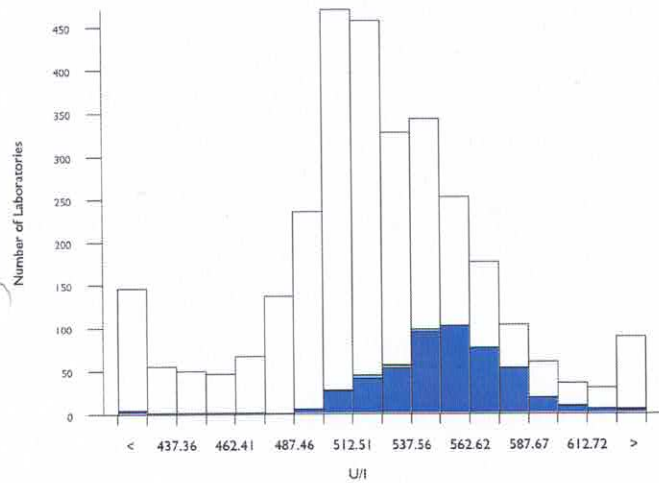


CK, Total, U/I @ 37°C

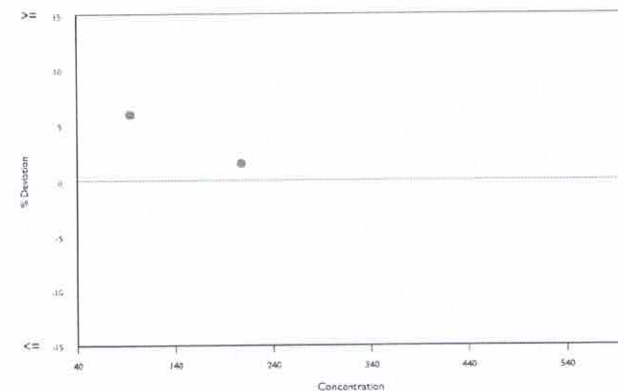
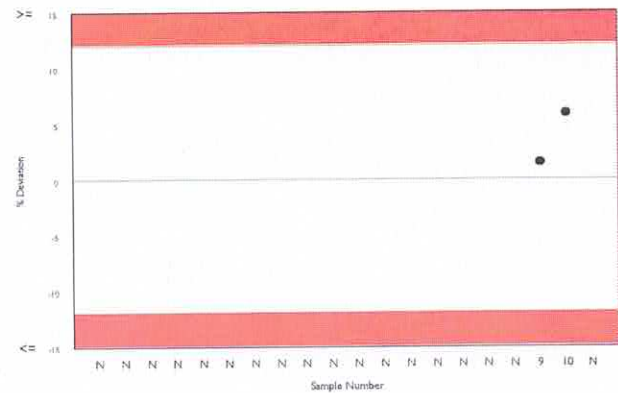
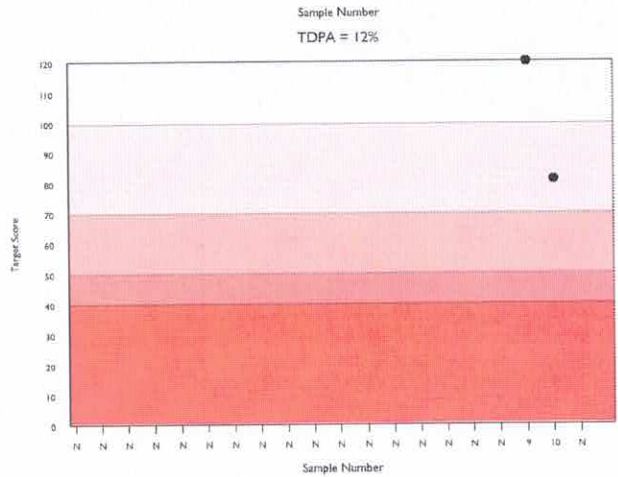
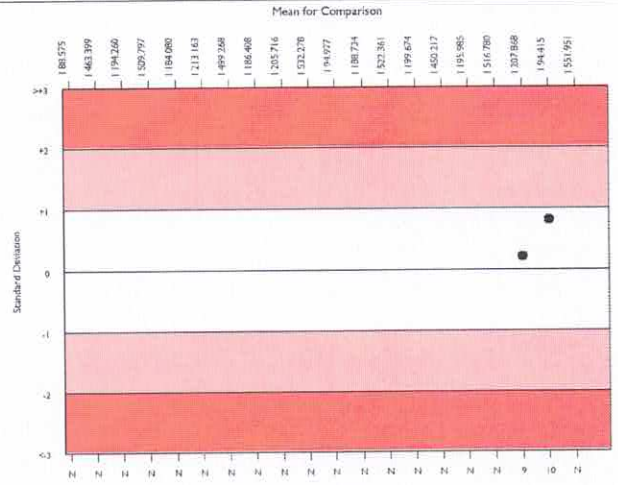
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	2767	525.044	6.4	0.79	38.30	316
Beckman CK-NAC (IFCC)	481	551.337	4.1	1.28	40.22	39
Beckman AU instruments	469	551.951	4.0	1.29	40.27	37

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	551.951	TS	Too Few
		RM _{TS}	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: 12.00%

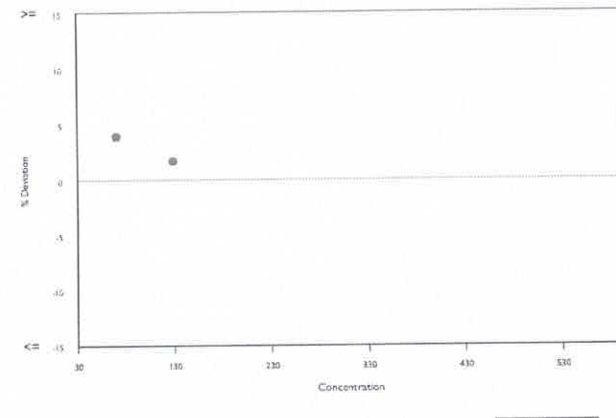
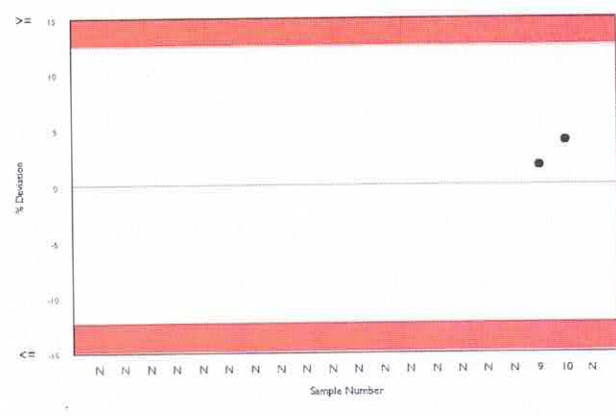
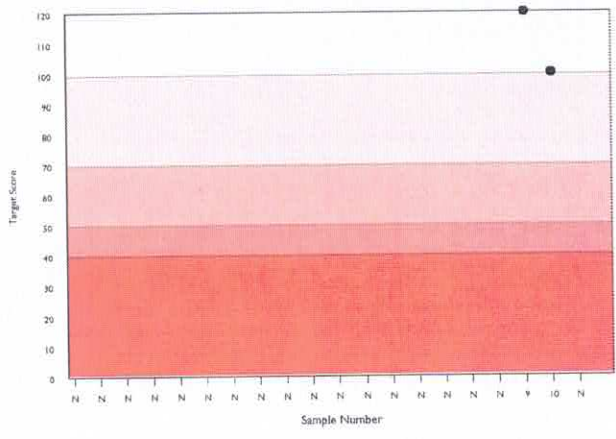
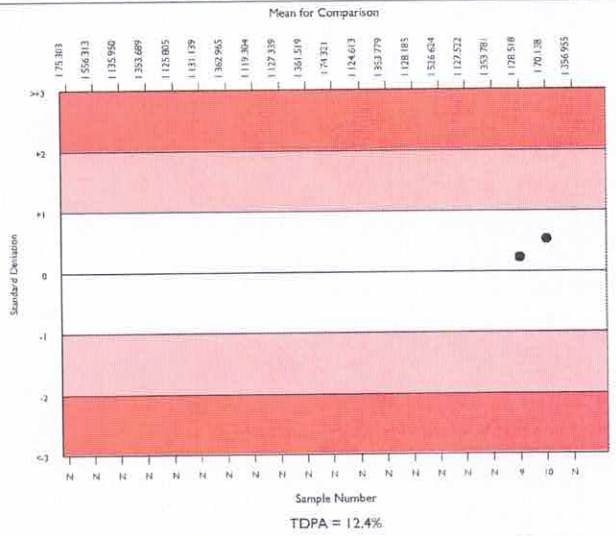


Method	N	Mean	CV%	U _m
CK-NAC (IFCC)	1574	519.159	5.3	0.86
Beckman CK-NAC (IFCC)	481	551.337	4.1	1.28
Abbott CK-NAC (IFCC)	218	534.533	4.4	2.01
Ortho Vitros MicroSlide Systems	114	431.007	6.0	3.05
CK-NAC substrate start (DGKC)	115	514.647	8.1	4.87
Creatine phosphate substrate start	93	513.342	5.3	3.54
CK-NAC serum start (DGKC)	76	522.307	6.0	4.47
Monothioglycerol	42	530.620	3.6	3.70
Agappe - IFCC/KINETIC	15	541.272	9.8	17.04
Other Dry Chemistry	11	685.727	3.3	8.52
Beckman CK-NAC (Extinction Coeff)	12	542.110	5.1	10.06
Dithioerythritol (DTE), IFCC correlated	5	518.740	2.3	6.58



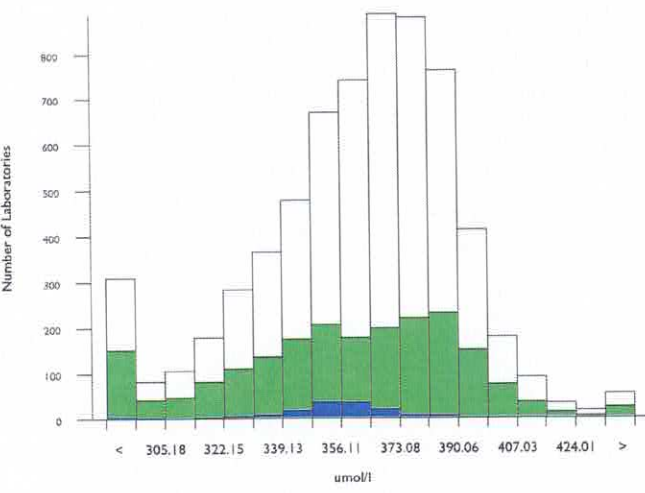
Creatinine, umol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6021	364.599	6.2	0.36	27.49	500
Alkaline picrate no deproteinisation	1915	360.864	7.8	0.80	27.20	151
Beckman AU instruments	131	356.955	3.5	1.37	26.91	15



▲ Your Result	No Result	SDI	Too Few
		RMSDI	Too Few
■ Mean for Comparison	356.955	TS	Too Few
		RM	Too Few
		%DEV	Too Few
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	12.40%



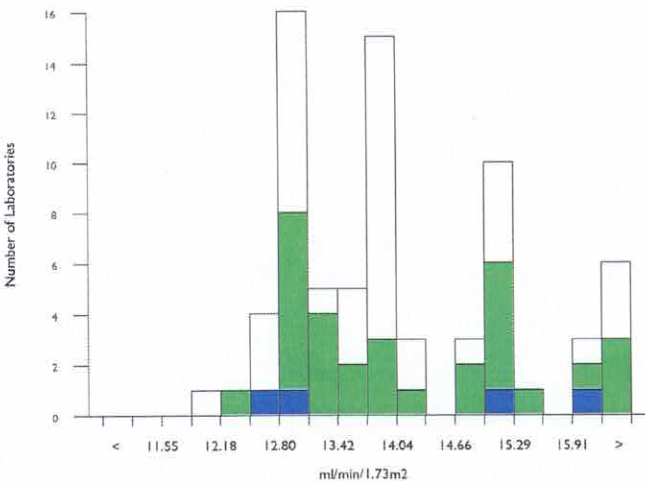
Method	N	Mean	CV%	U _m
Alkaline picrate no deproteinisation	1915	360.864	7.8	0.80
Jaffe rate blanked	1408	353.312	6.2	0.73
Jaffe rate blanked comp. (-26umol/l)	649	375.092	3.6	0.66
Jaffe rate comp. (-18umol/l)	437	366.762	3.6	0.78
Roche Creatinine Plus	283	377.978	3.1	0.88
Enzymatic UV method (340nm)	257	373.704	4.2	1.23
Creatinine PAP method	253	371.353	5.6	1.63
IDMS traceable	192	374.041	4.2	1.40
Other enzymatic methods	153	380.338	4.1	1.56
Alkaline picrate with deproteinisation	146	354.236	6.0	2.21
Vitros, IDMS traceable	144	380.387	3.7	1.48
Jaffe rate blanked comp. (-33umol/l)	62	350.867	5.2	2.90
Other Dry Chemistry	36	365.160	5.8	4.38
Agappe - JAFFE'S KINETIC	26	344.952	4.5	3.76
Agappe - ENZYMATIC	16	347.193	8.3	8.97
Vitros DT60/DT60 II/DTSC II	14	385.435	6.7	8.67

EGFR (Pilot), ml/min/1.73m²

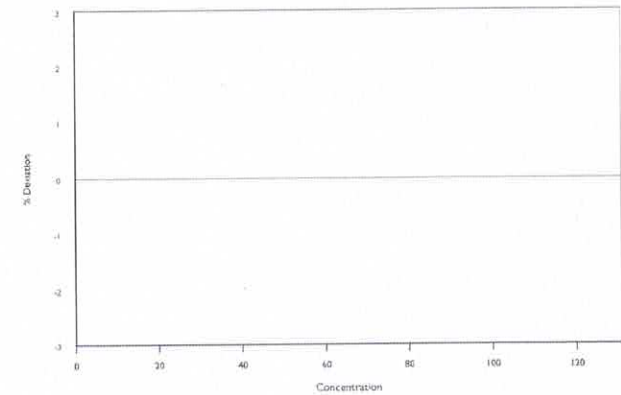
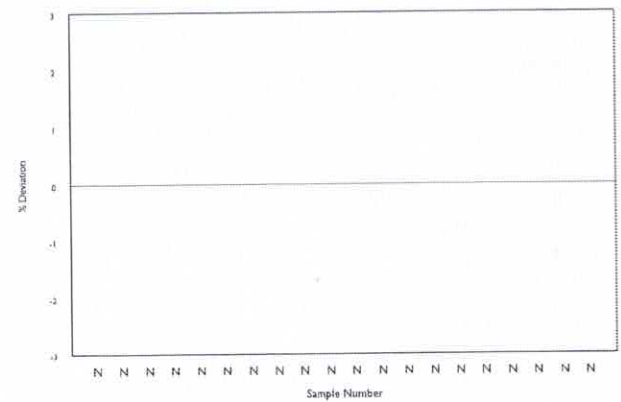
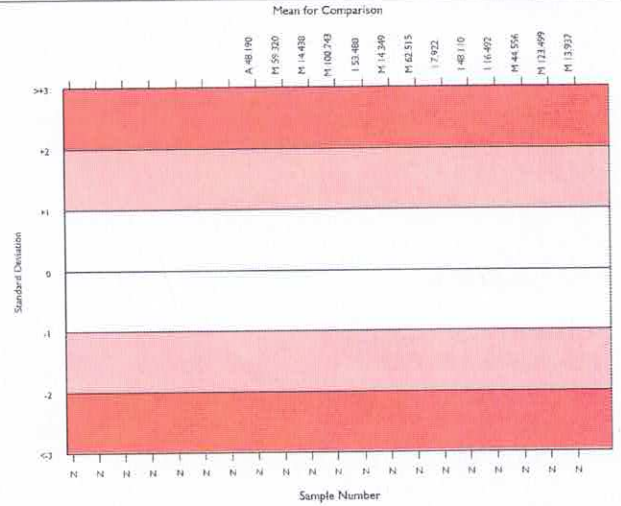
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	64	13.736	6.0	0.13	0.83	9
MDRD Equation	31	13.937	7.5	0.23	1.04	3
Beckman AU instruments	4	14.133	11.8	1.04	1.96a	0

Legend	Your Result	No Result	SDI	RMSDI	Too Few
▲					
■	Mean for Comparison	13.937	TS	RMTS	N/A
			%DEV	RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: N/A

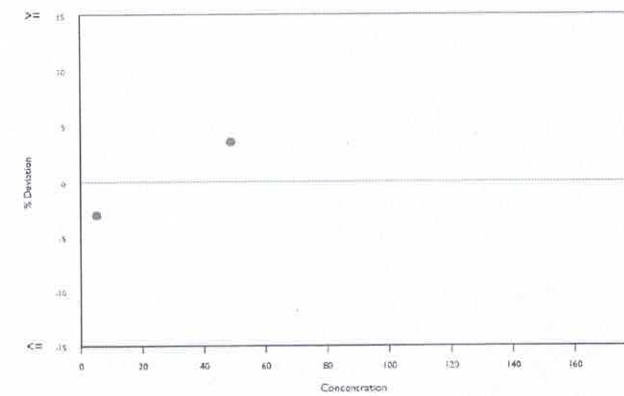
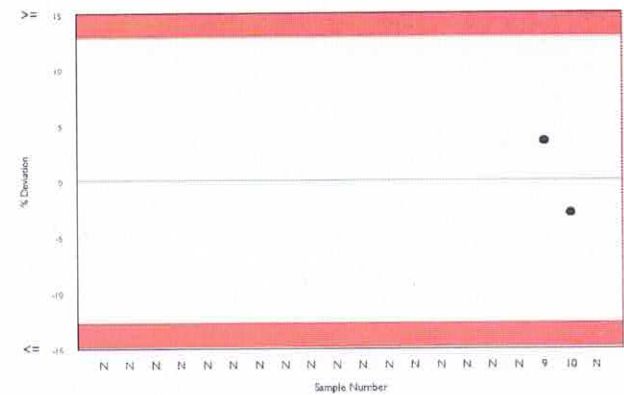
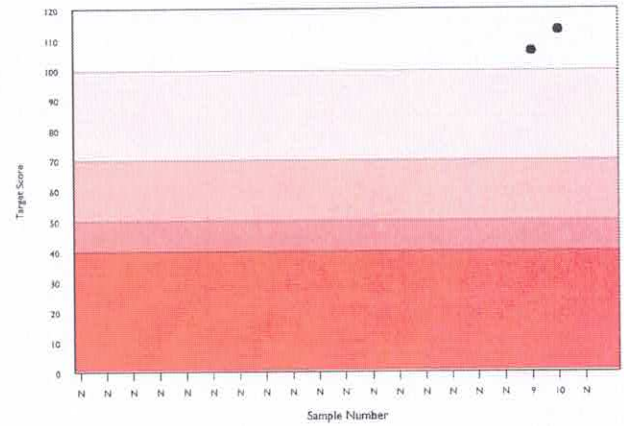
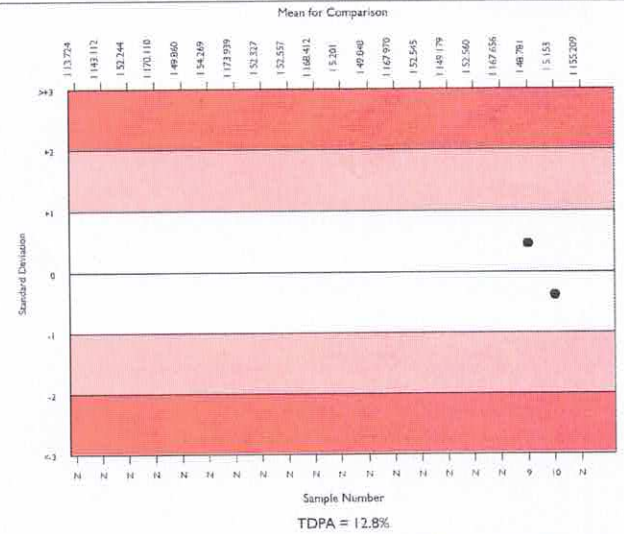


Method	N	Mean	CV%	U _m
CKD-EPI Equation	34	13.737	5.2	0.15
MDRD Equation	31	13.937	7.5	0.23



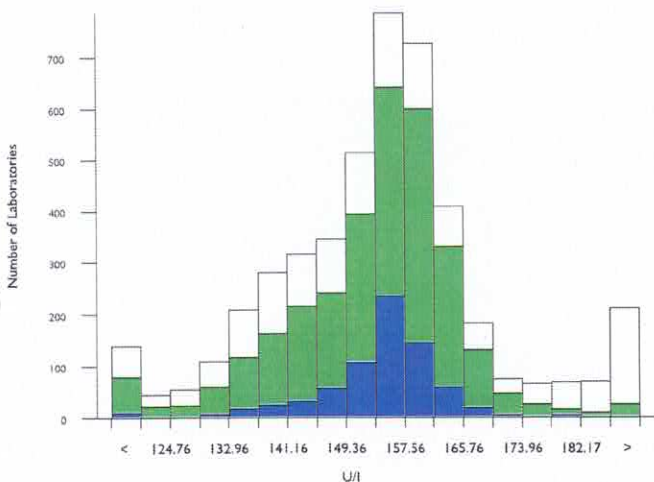
GGT, U/I @ 37°C

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4151	153.466	7.1	0.21	11.94	447
Gamma glut ³ -carb ⁴ -nitro(IFCC)	2881	154.239	5.4	0.20	12.00	259
Beckman AU instruments	662	155.209	3.7	0.28	12.08	62



▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	155.209	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	12.80%



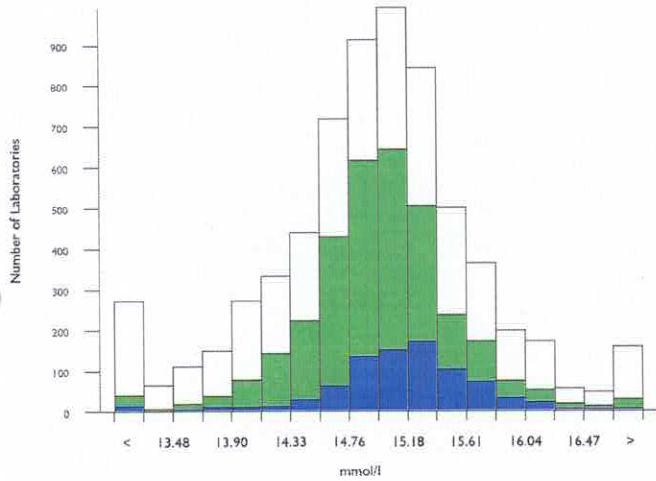
Method	N	Mean	CV%	U _m
Gamma glut ³ -carb ⁴ -nitro(IFCC)	2881	154.239	5.4	0.20
Gamma glut ³ -carb ⁴ -nitro	784	148.943	7.3	0.49
Siemens Dimension	189	184.265	4.0	0.67
Ortho Vitros MicroSlide Systems	124	188.558	3.2	0.69
DCL gamma glut ³ -carb ⁴ -nitro	83	151.325	5.9	1.23
Gamma glutamyl-4-nitroanilide	79	135.733	11.9	2.28
Beckman Szasz (Extinction Coeff.)	35	156.224	3.7	1.21
Agappe - SZASZ KINETIC	27	159.842	6.9	2.66
Other Dry Chemistry	19	144.472	9.2	3.82

Glucose, mmol/l

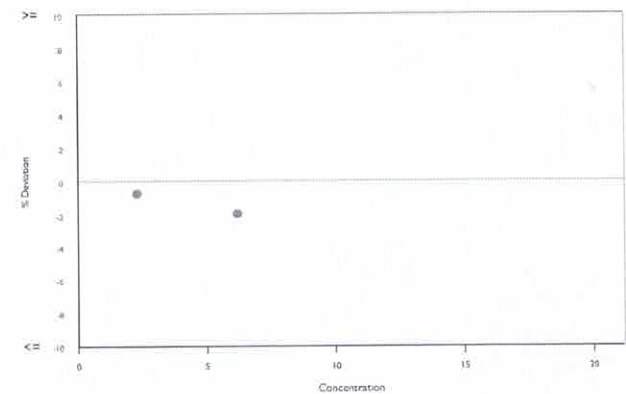
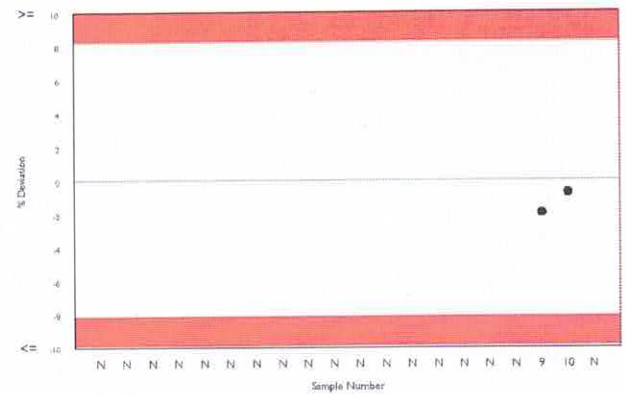
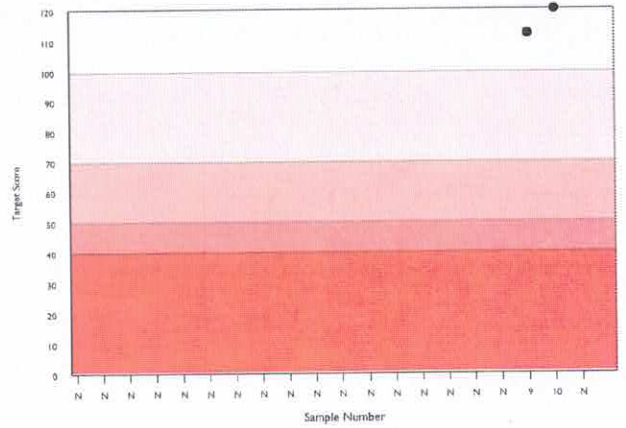
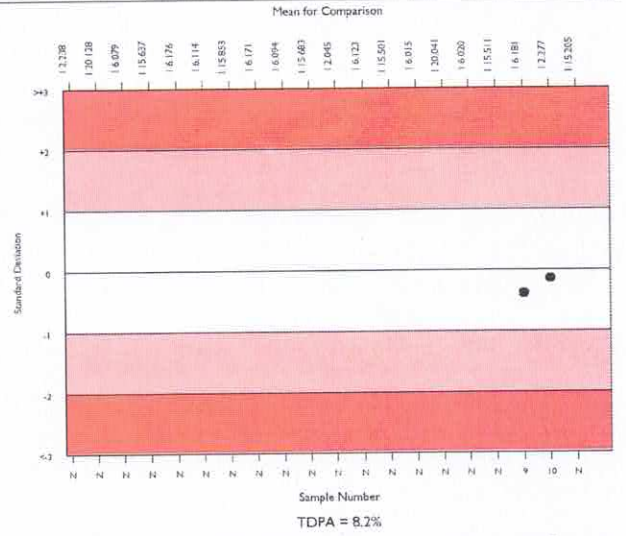
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	6019	14.976	3.8	0.01	0.75	573
Hexokinase	3072	15.001	2.7	0.01	0.75	253
Beckman AU instruments	783	15.205	2.6	0.02	0.76	68

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	15.205	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	8.20%



Method	N	Mean	CV%	U _m
Hexokinase	3072	15.001	2.7	0.01
Glucose oxidase	2644	14.981	5.1	0.02
Ortho Vitros MicroSlide Systems	163	13.983	2.7	0.04
Glucose dehydrogenase	62	14.872	3.5	0.08
Agappe - GOD-PAP	41	15.054	4.3	0.13
GOD/02-Beckman method	22	14.902	2.0	0.08
Other Dry Chemistry	22	14.220	4.4	0.17
Oxygen electrode	15	14.769	2.1	0.10

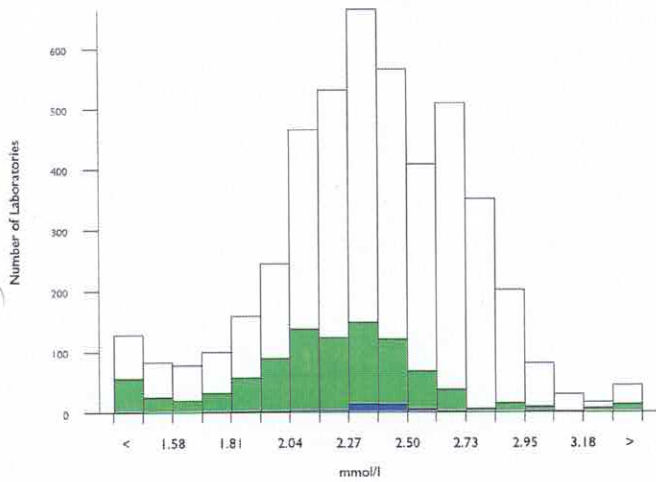
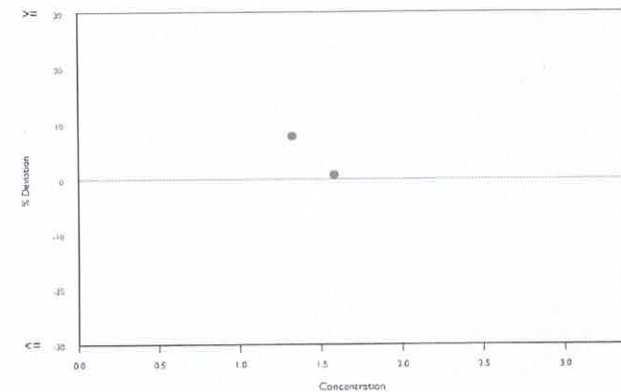
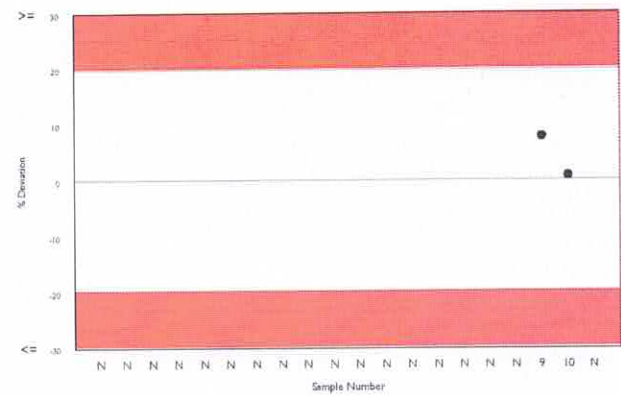
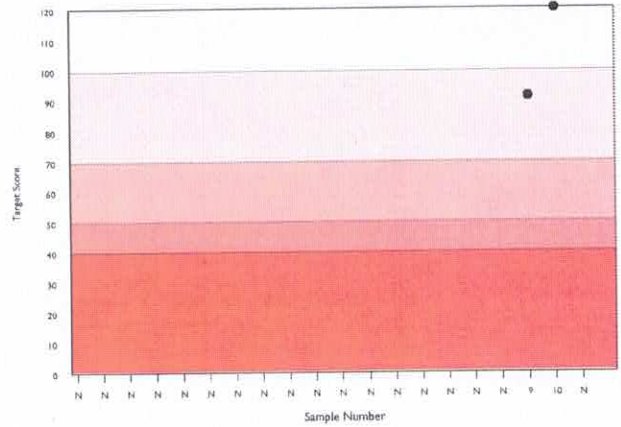
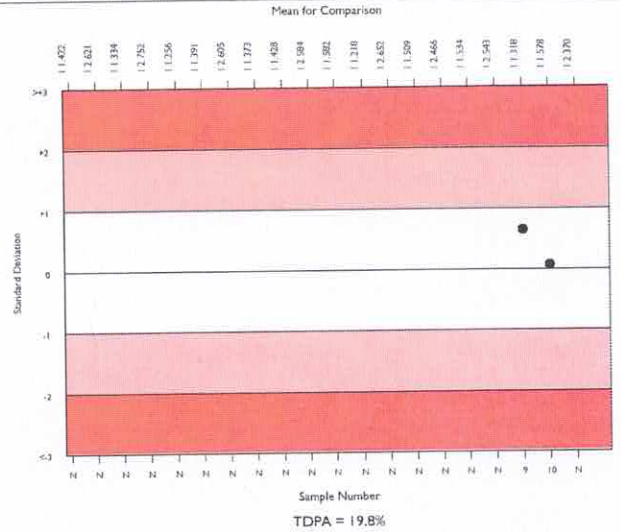


HDL-Cholesterol, mmol/l

	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4334	2.388	12.8	0.01	0.29	326
Direct HDL, Clearance method	879	2.210	13.0	0.01	0.27	86
Beckman AU instruments	43	2.370	6.3	0.03	0.29	6

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	2.370	TS	Too Few
		RM _{TS}	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	19.80%



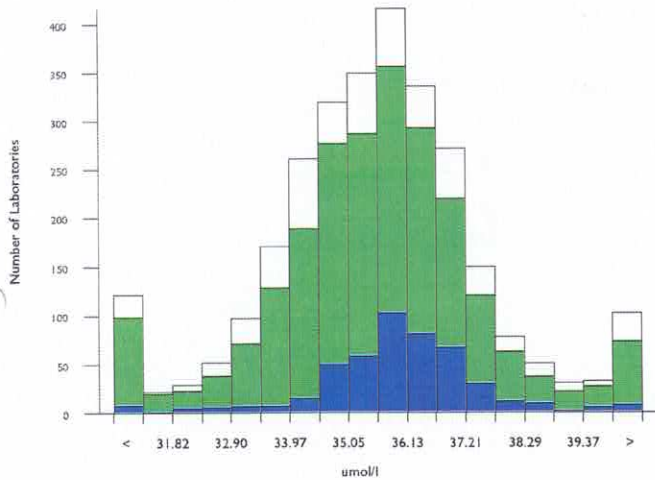
Method	N	Mean	CV%	U _m
Direct HDL, Roche 4th gen.	1106	2.720	4.7	0.00
Direct HDL, Immunoseparation	892	2.289	9.7	0.01
Direct HDL, Clearance method	879	2.210	13.0	0.01
Direct HDL, PEGME	444	2.233	16.4	0.02
HDL Ultra/Accel Selective Detergent	409	2.222	6.0	0.01
Direct HDL, PPD	305	2.309	9.7	0.02
Vitros dHDL, PTA/MgCl2 direct precip.	135	2.150	8.0	0.02
Other Dry Chemistry	32	2.539	14.1	0.08
Agappe - SELECTIVE INHIBITION	28	2.565	9.0	0.05
Vitros, Magnetic HDL	21	2.098	8.3	0.05
Vitros 5.1 FS Microtup assay	11	2.131	9.1	0.07

Iron, umol/l

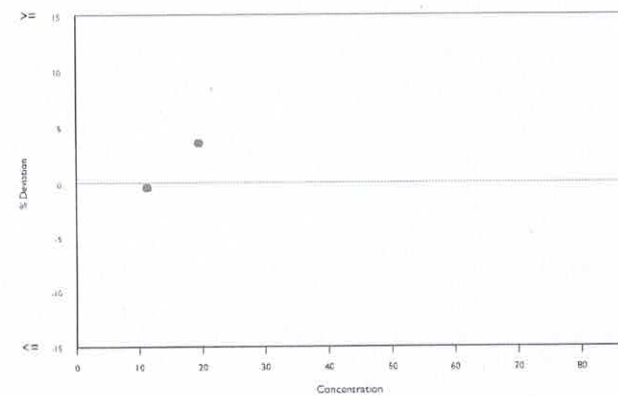
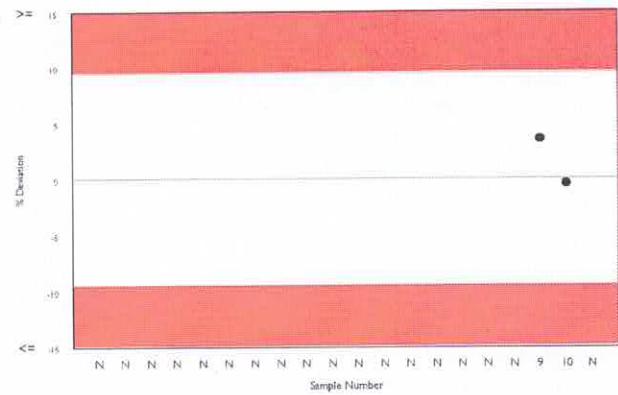
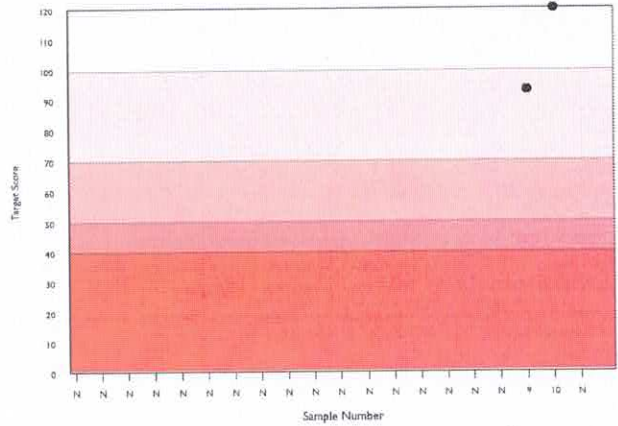
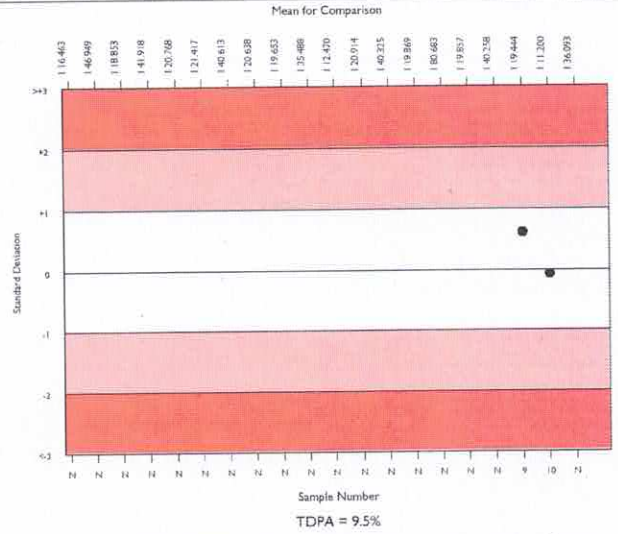
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	2616	35.597	4.0	0.04	2.06	270
Colorimetric without ppt.	2123	35.620	3.9	0.04	2.06	215
Beckman AU instruments	431	36.093	2.7	0.06	2.08	44

▲ Your Result	No Result	SDI	Too Few
		RMSEI	
■ Mean for Comparison	36.093	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: 9.50%



Method	N	Mean	CV%	U _m
Colorimetric without ppt.	2123	35.620	3.9	0.04
Colorimetric with ppt.	333	35.162	4.2	0.10
Ortho Vitros MicroSlide Systems	101	36.620	4.7	0.21
Other method with blank	30	35.384	3.3	0.27
Other method without blank	12	35.717	2.3	0.30
Other Dry Chemistry	7	35.110	9.1	1.51
Agappe - CHROMAZUROL	4	33.264	9.1	1.88
Optical Emission Spectroscopy	2	34.594	4.7	1.44

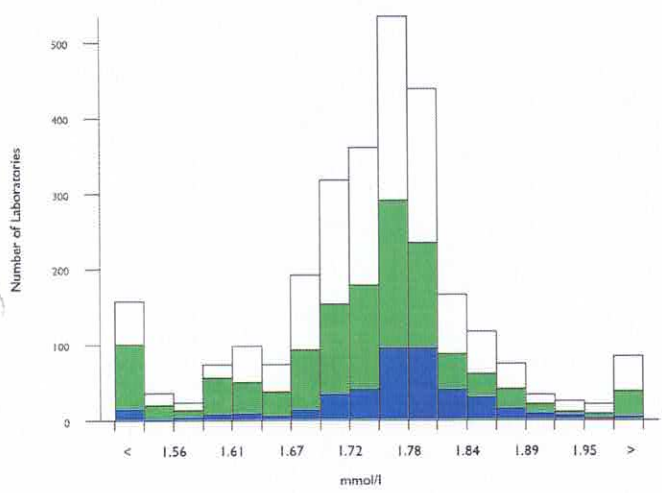


Magnesium, mmol/l

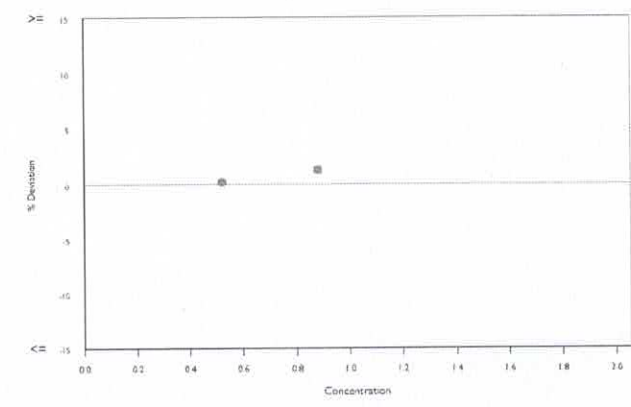
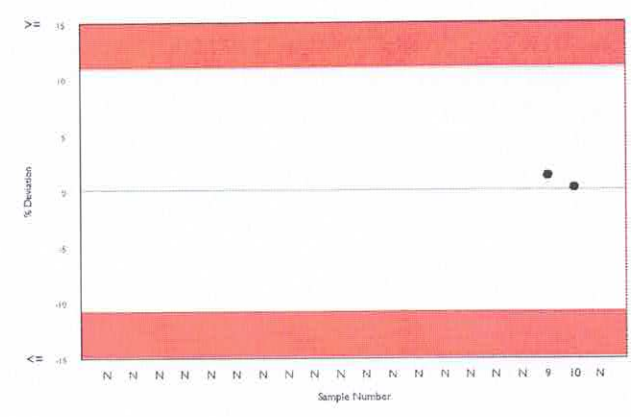
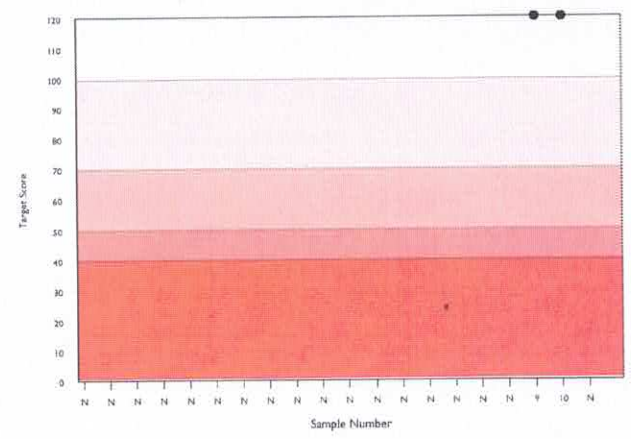
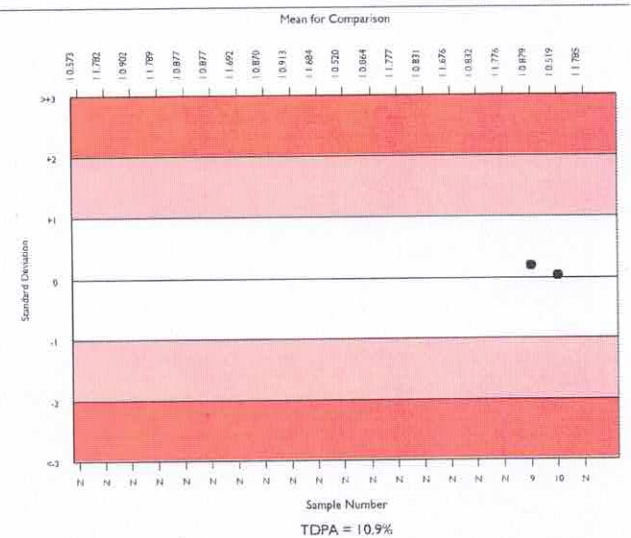
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	2582	1.757	4.2	0.00	0.12	243
Xylidyl Blue	1369	1.755	4.5	0.00	0.12	127
Beckman AU instruments	385	1.785	3.0	0.00	0.12	47

▲ Your Result	No Result	SDI	RMSEI	Too Few
■ Mean for Comparison	1.785	TS	RMTS	Too Few
		%DEV	RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	10.90%



Method	N	Mean	CV%	U _m
Xylidyl Blue	1369	1.755	4.5	0.00
Chlorphosphonazo III	318	1.763	2.3	0.00
Enzymatic	232	1.742	3.0	0.00
Methylthymol blue	233	1.769	3.6	0.01
Ortho Vitros MicroSlide Systems	132	1.817	4.0	0.01
Calmagite	119	1.696	7.4	0.01
Arsenazo	87	1.748	3.0	0.01
Atomic absorption	32	1.763	2.7	0.01
Other Dry Chemistry	23	1.900	10.5	0.05
Agappe - XYLIDYL BLUE	12	1.641	7.8	0.05
Other magnesium dyes	9	1.644	10.5	0.07

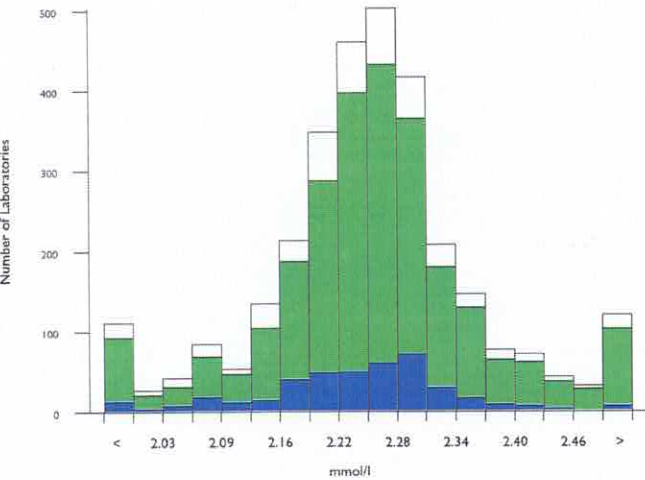


Phosphate, Inorganic, mmol/l

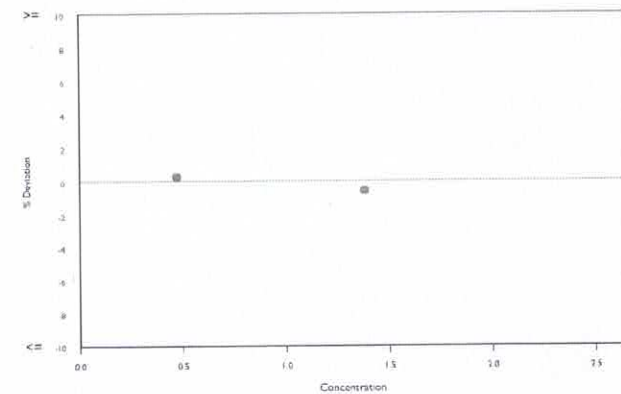
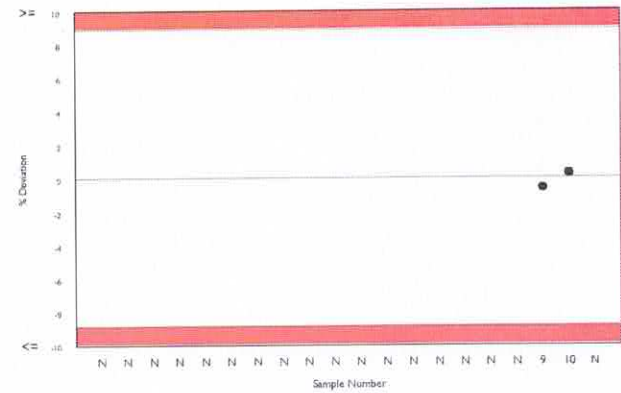
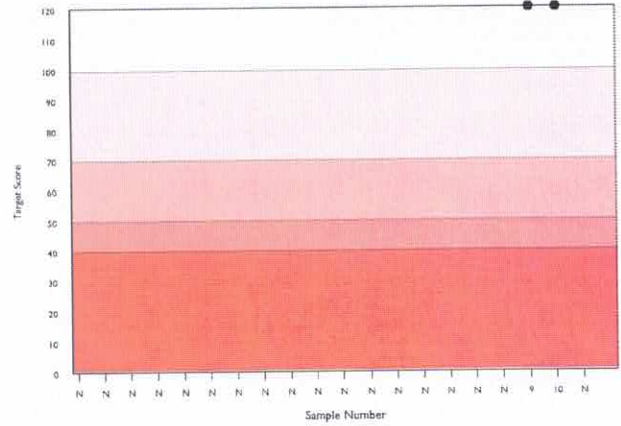
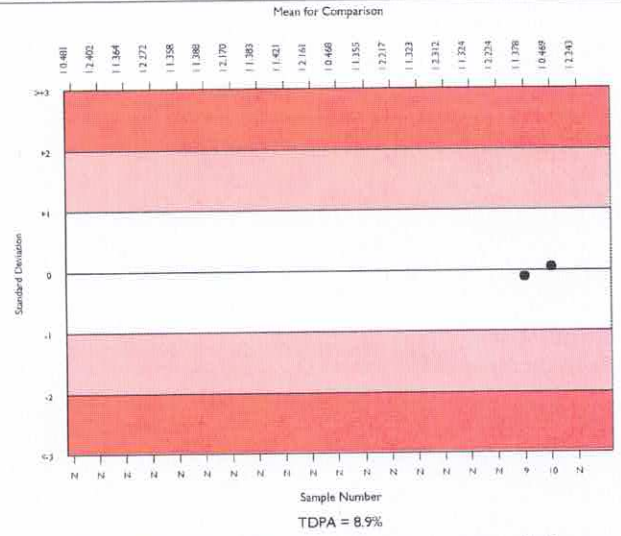
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	2819	2.252	3.6	0.00	0.12	270
Phosphomolybdate UV	2392	2.255	3.5	0.00	0.12	239
Beckman AU instruments	379	2.243	3.5	0.00	0.12	32

▲ Your Result	No Result	SDI RMSDI	Too Few
■ Mean for Comparison	2.243	TS RMTS	Too Few
		%DEV RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A
 Acceptable limits of performance for RIQAS: 8.90%



Method	N	Mean	CV%	U _m
Phosphomolybdate UV	2392	2.255	3.5	0.00
Phosphomolybdate enzymatic	205	2.253	3.2	0.01
Ortho Vitros MicroSlide Systems	130	2.201	3.4	0.01
Beckman PHOSm kit (365nm)	33	2.270	3.0	0.02
Other Dry Chemistry	15	2.374	3.9	0.03
Agappe - PHOSPHOMOLYBDATE	11	2.277	2.7	0.02
Other methods, no protein ppt	10	2.519	16.8	0.17
Other methods, with protein ppt	3	2.288	5.4	0.09
Vitros. DT60/DT60 II/DTSC II	2	2.222	4.6	0.09

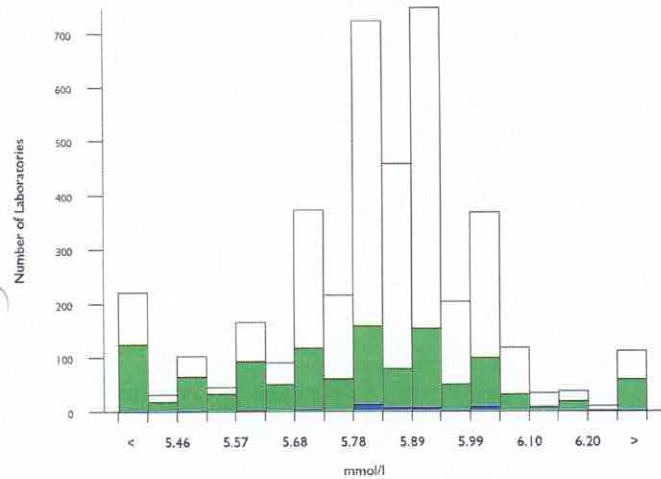


Potassium, mmol/l

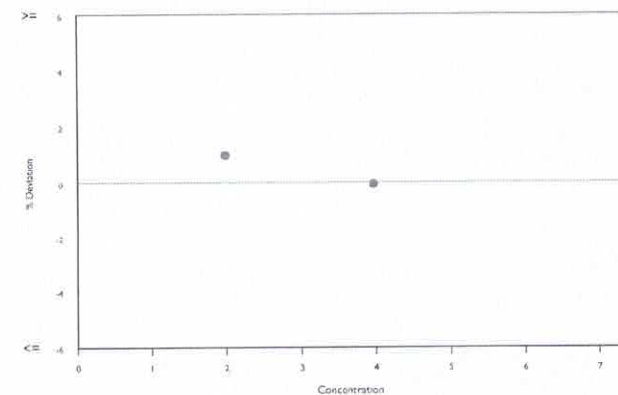
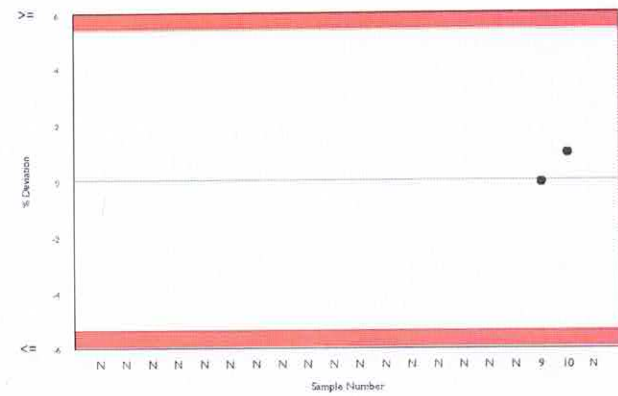
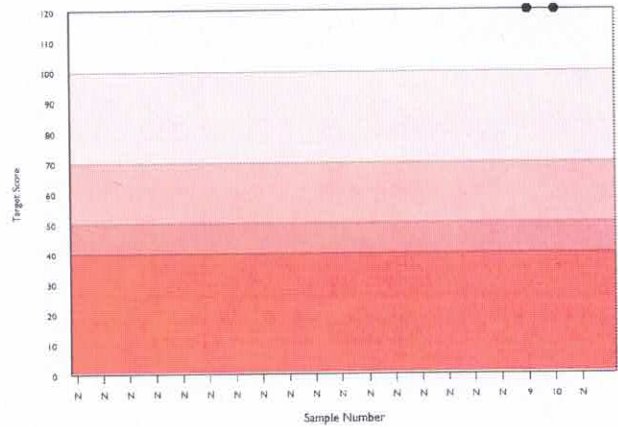
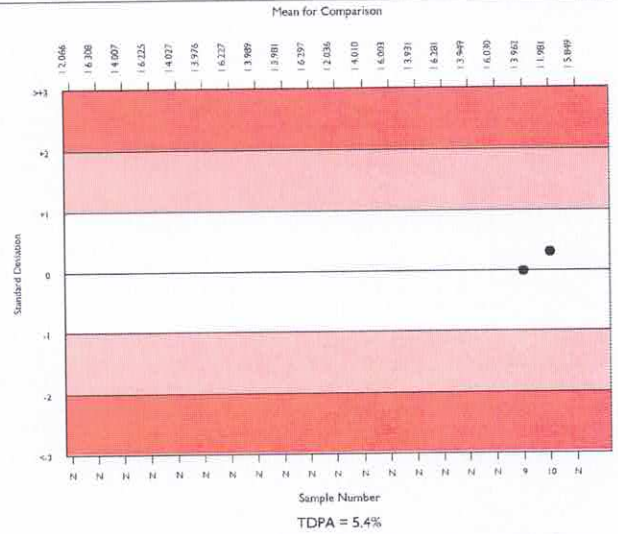
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	3697	5.839	2.4	0.00	0.19	351
ISE method - direct	1104	5.771	3.4	0.01	0.19	116
Beckman AU instruments	46	5.849	1.9	0.02	0.19	6

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	5.849	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	5.40%



Method	N	Mean	CV%	U _m
ISE method - indirect	2377	5.864	1.8	0.00
ISE method - direct	1104	5.771	3.4	0.01
Ortho Vitros MicroSlide Systems	129	5.798	1.8	0.01
Colorimetric	50	5.569	6.2	0.06
Other Dry Chemistry	23	5.787	1.9	0.03
Flame photometry	20	5.645	6.0	0.09
Enzymatic	13	6.369	13.4	0.30
Turbidimetric	10	5.586	6.3	0.14
Optical Fluorescence	10	5.793	6.9	0.16
Agappe - ISE DIRECT	3	3.910	44.7	1.26
Vitros, DT60/DT60 II/DTE II	3	5.700	6.3	0.26

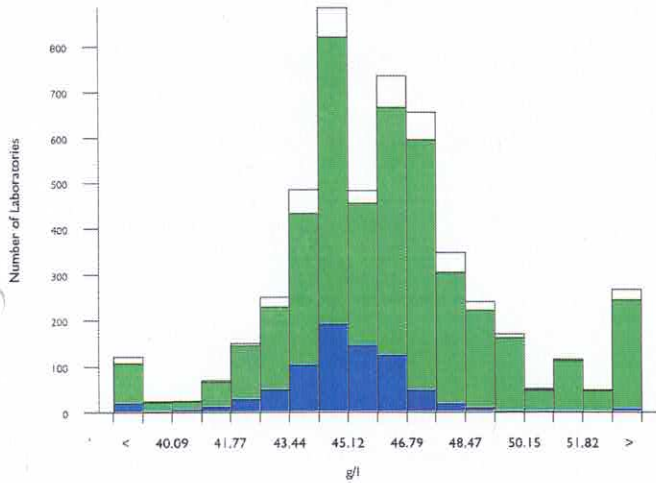


Protein, Total, g/l

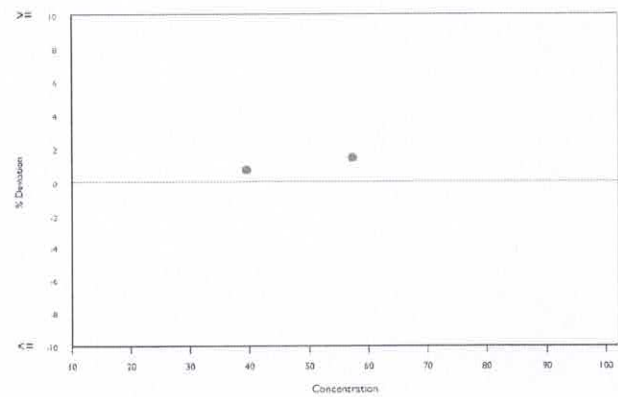
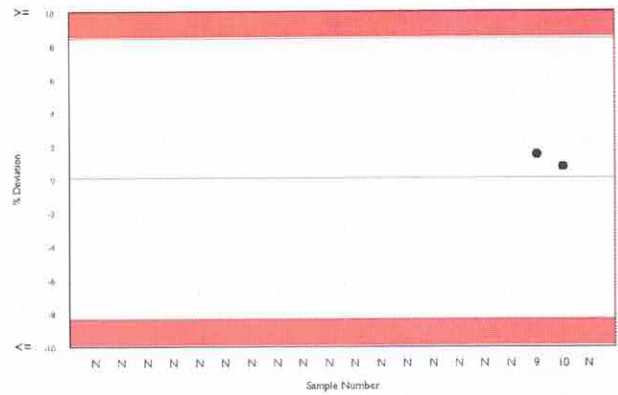
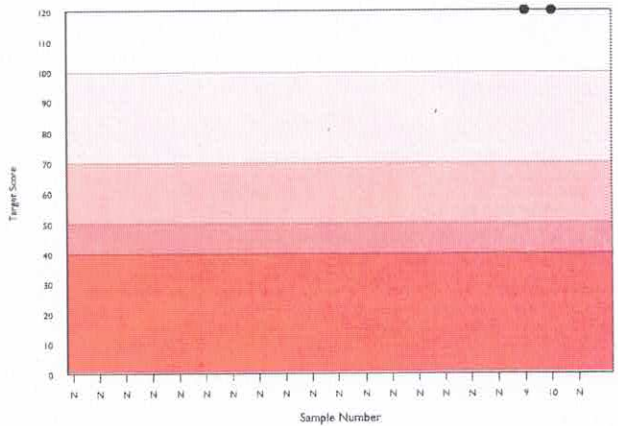
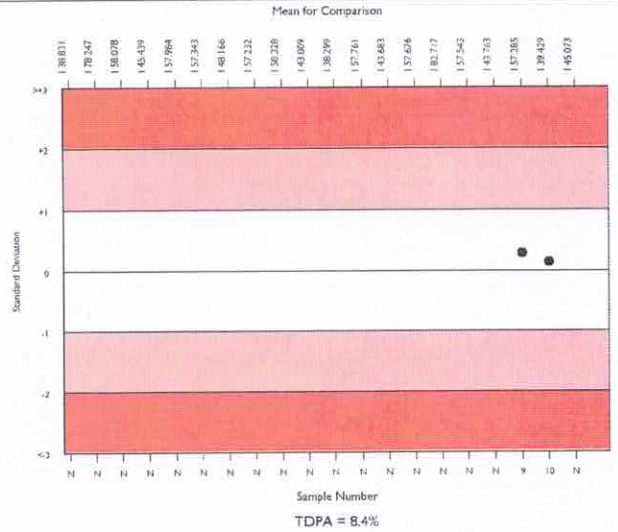
	N	Mean	CV%	U _m	SDPA	Exc.
All Methods	4724	45.962	4.9	0.04	2.35	396
Biuret reaction, end point	4339	45.964	4.9	0.04	2.35	360
Beckman AU instruments	706	45.073	2.8	0.06	2.30	65

▲ Your Result	No Result	SDI	Too Few
		RMSDI	
■ Mean for Comparison	45.073	TS	Too Few
		RMTS	
		%DEV	Too Few
		RM%DEV	

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	8.40%



Method	N	Mean	CV%	U _m
Biuret reaction, end point	4339	45.964	4.9	0.04
Ortho Vitros MicroSlide Systems	149	46.197	3.4	0.16
Biuret reaction, kinetic	123	45.308	3.1	0.16
Biuret reaction, CX4/5/7	42	44.876	3.2	0.28
Agappe - BIURET	34	47.636	3.6	0.36
Other Dry Chemistry	20	47.920	4.6	0.61



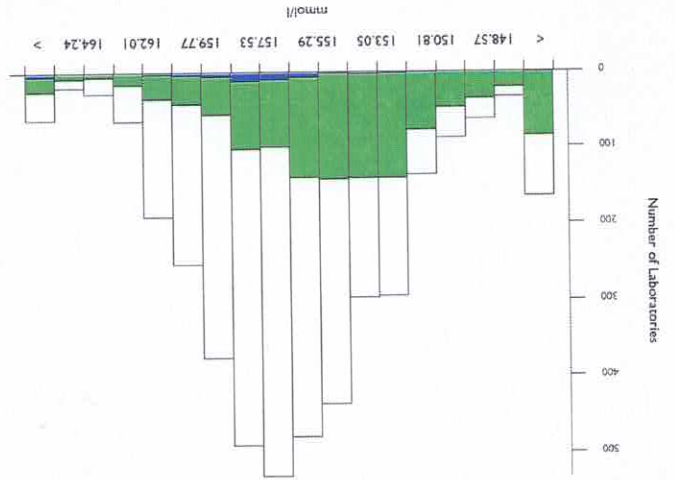
Sodium, mmol/l

Exc.	N	Mean	CV%	U _m SDPA
311	3697	156.413	1.9	0.06
98	1117	154.859	2.2	0.13
7	49	157.384	1.4	0.39

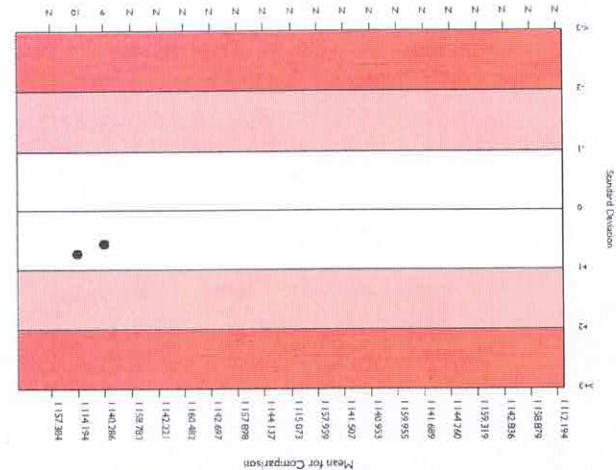
- All Methods
- ISE method - direct
- Beckman AU instruments

Method	TS	RM%DEV	RM%DEV
▲ Your Result	No Result	RM%DEV	Too Few
■ Mean for Comparison	157.384	TS	Too Few
		RM%DEV	Too Few

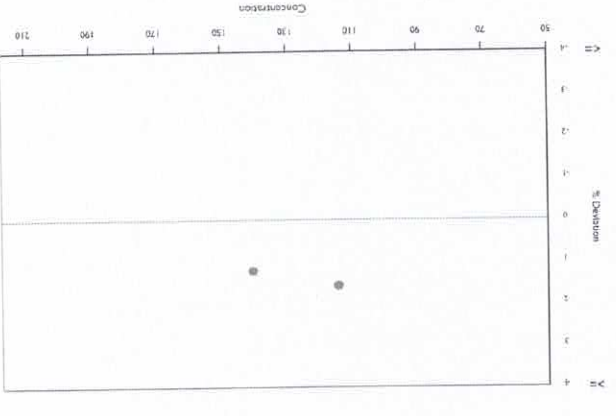
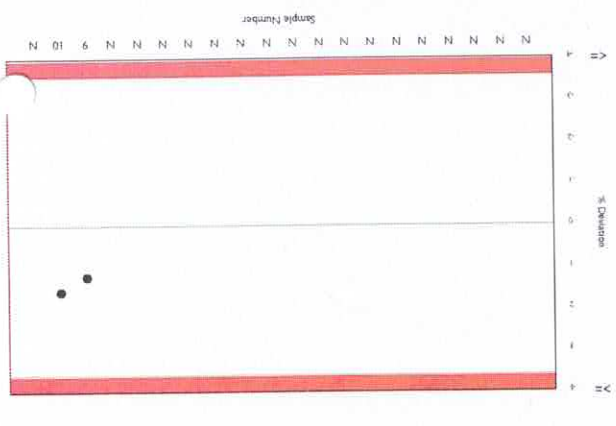
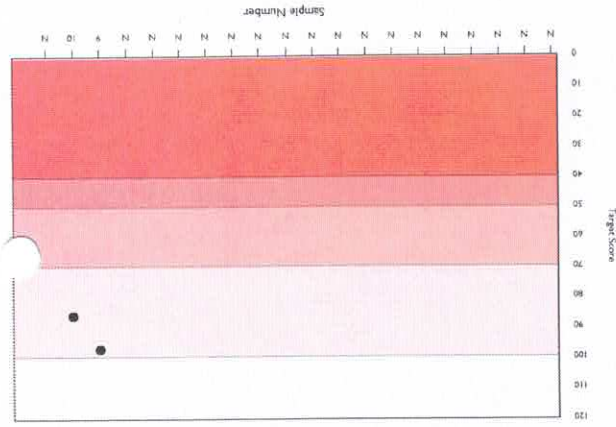
Acceptable limits derived from Biological Variation
 Acceptable limits of performance for RIQAS 3.60%



Method	N	Mean	CV%	U _m
ISE method - indirect	2321	157.252	1.4	0.06
ISE method - direct	1117	154.859	2.2	0.13
Ortho Vitros MicroSlide Systems	126	152.733	1.5	0.26
Coleometric	40	151.805	2.7	0.80
Other Dry Chemistry	21	153.743	1.7	0.71
Flame photometry	20	155.645	2.9	1.28
Enzymatic	10	156.064	3.2	1.99
Optical Fluorescence	7	156.229	1.1	0.81
Vitros, DT60/DTE II	4	149.150	2.9	2.69



TDPA = 3.6%

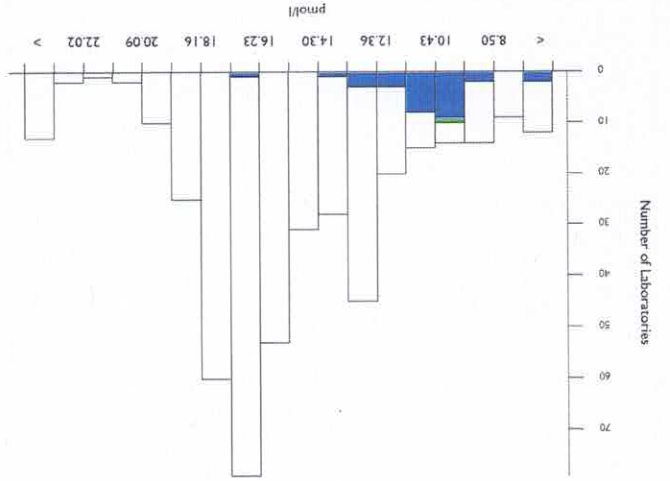


Free T3, pmol/l

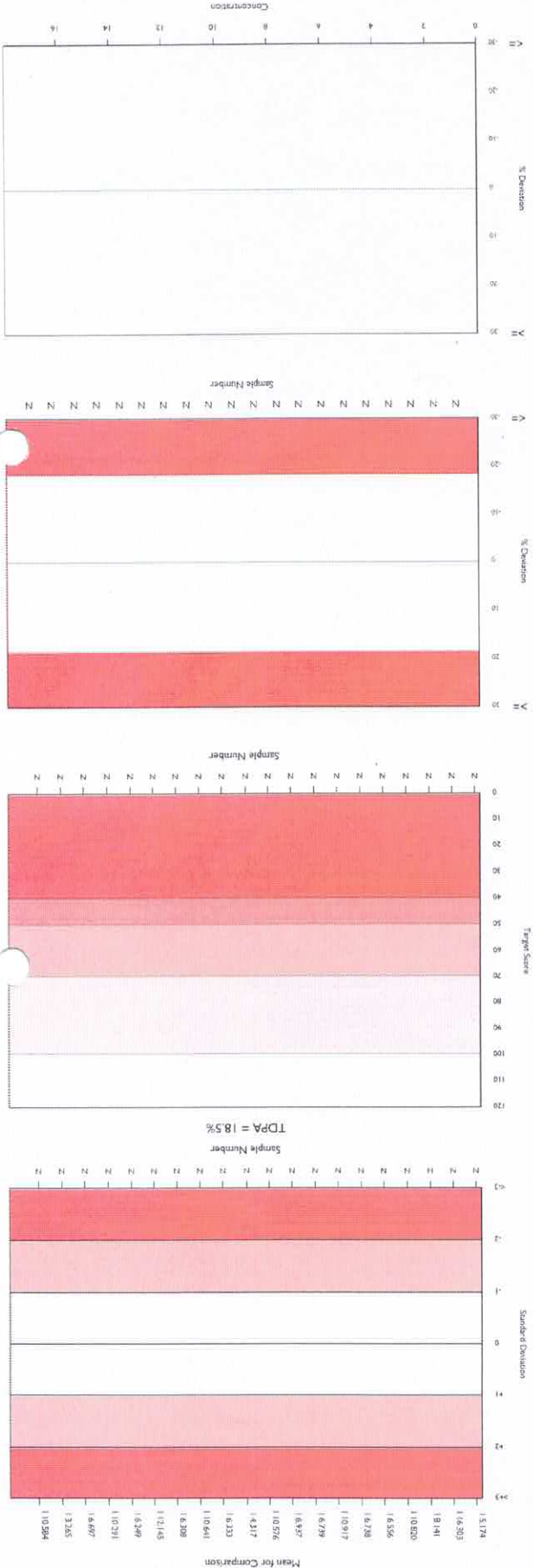
N	Mean	CV%	U _m	SDPA	Exc.
390	15.267	16.9	0.16	1.72	44
24	10.439	7.9	0.21	1.17	6
24	10.584	9.3	0.25	1.19	5

Method	CV%	Mean	U _m	SDPA	Exc.
Beckman Access Series	7.9	10.439	0.21	1.17	6
Beckman Access/LX1725	9.3	10.584	0.25	1.19	5
All Methods	16.9	15.267	0.16	1.72	44

Method	CV%	Mean	U _m	SDPA	Exc.
Roche Cobas 4000/e411	5.3	16.539	0.12	0.12	81
Roche Cobas e601/602	3.3	17.408	0.10	0.10	52
Abbott Architect/Alinity, 2 point cal	6.2	12.717	0.15	0.15	42
Roche Cobas VIDAS	10.1	15.660	0.31	0.31	41
BioMérieux VIDAS	7.9	10.439	0.21	0.21	24
Beckman Access/LX1725	2.2	12.538	0.08	0.08	17
Abbott Architect/Alinity, 6 point cal	4.4	14.531	0.20	0.20	16
Stemns Centaur XP/PT/Classic	6.1	18.241	0.36	0.36	15
Stemns Dimension ExL LOCI	2.1	16.796	0.12	0.12	13
Ortho Vitros 3600/5600/ECI/XT 7600	3.5	29.686	0.41	0.41	10
Stemns Centaur CP	5.8	14.450	0.37	0.37	8
Beckman Dxl 600/800	6.1	8.726	0.22	0.22	9
Roche Elecsys	8.5	17.237	0.61	0.61	9
SINBE Maglum analysers	17.34	14.0	0.95	0.95	10
Roche Cobas e801	1.3	16.984	0.10	0.10	7
Stemns/DPC Immulite 2000/2500	7.0	8.619	0.31	0.31	6
Stemns/DPC Immulite 1000	6.8	16.283	0.69	0.69	4
Siemens/CL-Series	9.591	26.3	1.57	1.57	4
Mindray CL-Series	14.141	12.7	1.12	1.12	4
DiaSorin Liaison XL	8.7	23.196	1.78	1.78	2
Siemens Atellica IM	15.455	0.7	0.0	0.0	2



Method	N	Mean	CV%	U _m
Roche Cobas 4000/e411	81	16.539	5.3	0.12
Roche Cobas e601/602	52	17.408	3.3	0.10
Abbott Architect/Alinity, 2 point cal	42	12.717	6.2	0.15
Roche Cobas VIDAS	41	15.660	10.1	0.31
BioMérieux VIDAS	24	10.439	7.9	0.21
Beckman Access/LX1725	17	12.538	2.2	0.08
Abbott Architect/Alinity, 6 point cal	16	14.531	4.4	0.20
Stemns Centaur XP/PT/Classic	15	18.241	6.1	0.36
Stemns Dimension ExL LOCI	13	16.796	2.1	0.12
Ortho Vitros 3600/5600/ECI/XT 7600	10	29.686	3.5	0.41
Stemns Centaur CP	8	14.450	5.8	0.37
Beckman Dxl 600/800	9	8.726	6.1	0.22
Roche Elecsys	9	17.237	8.5	0.61
SINBE Maglum analysers	10	14.0	17.34	0.95
Roche Cobas e801	7	16.984	1.3	0.10
Stemns/DPC Immulite 2000/2500	6	8.619	7.0	0.31
Stemns/DPC Immulite 1000	4	16.283	6.8	0.69
Siemens/CL-Series	4	9.591	26.3	1.57
Mindray CL-Series	4	14.141	12.7	1.12
DiaSorin Liaison XL	2	23.196	8.7	1.78
Siemens Atellica IM	2	15.455	0.7	0.0

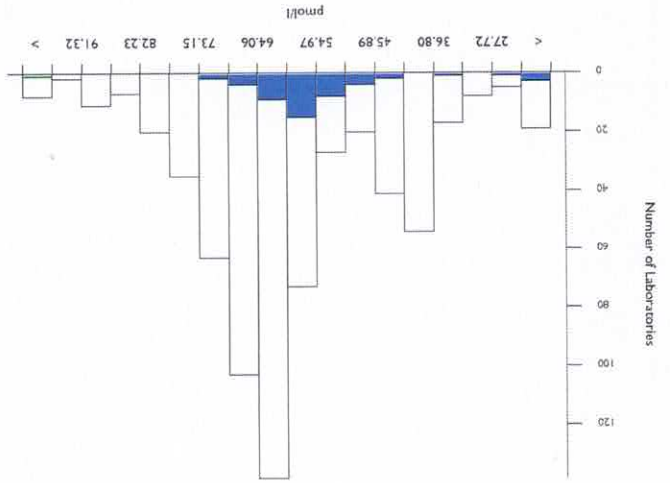


Free T4, pmol/l

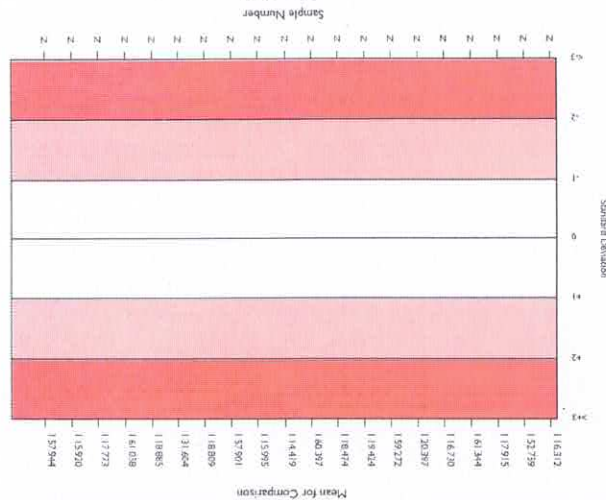
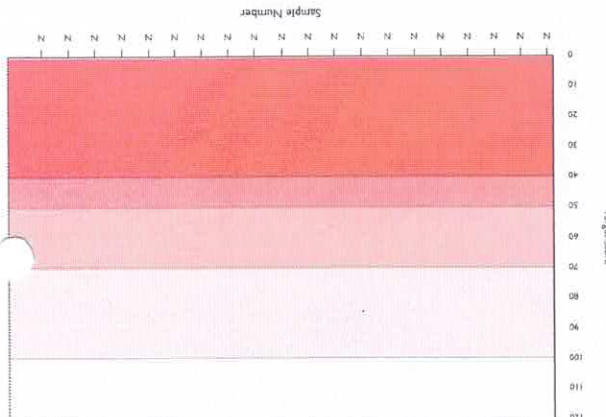
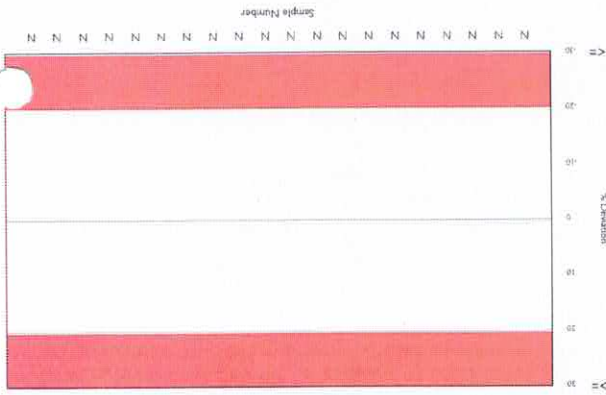
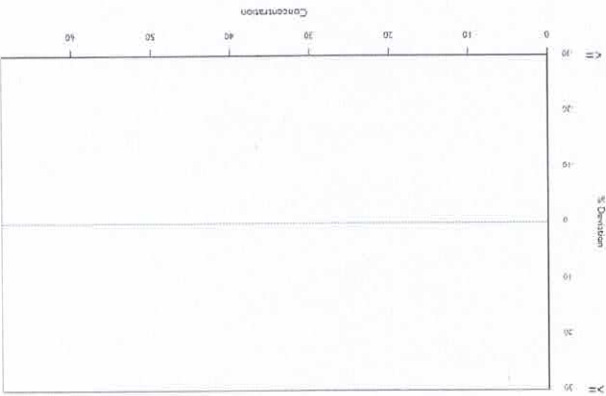
N	Mean	CV%	U _m	SDPA	Exc.
606	59.522	20.4	0.62	7.31	55
44	57.590	10.9	1.18	7.07	6
43	57.944	10.1	1.12	7.12	6

Legend	TS	RM%DEV	RM%SDI
Mean for Comparison	57.944	Too Few	Too Few
Your Result	No Result	Too Few	Too Few

Acceptable limits derived from Biological Variation
 Acceptable limits of performance for RIQAS
 N/A
 20.20%



Method	N	Mean	CV%	U _m
Roche Cobas 4000/e411	109	63.850	7.2	0.55
Abbott Architect Alinity	72	41.870	7.5	0.46
Roche Cobas e601/ 602	70	63.664	4.9	0.47
Roche Cobas e601/ 602	48	63.402	6.7	0.77
bioMérieux VIDAS-FT4N Kit	44	57.590	10.9	1.18
Beckman Access/LX1725	44	57.590	10.9	1.18
Monobind Inc ELISA / CLIA	32	37.850	16.5	1.38
Siemens Centaur XP/XT/Classic	25	56.909	10.8	1.54
SNIBE Maglum analyzers	19	74.971	5.0	1.07
Tosoh ALA Series	23	71.962	7.7	1.44
ELISA	19	36.811	15.2	1.61
Ortho Vitros 3600/5600/ECU/XT/7600	8	89.725	0.2	0.08
Siemens/PC Immulite 1000	15	70.169	8.4	1.90
Siemens Dimension ExL LOC	14	72.680	2.7	0.66
Beckman Dxl 600/800	10	61.779	3.1	0.75
Roche Elecsys	12	67.759	13.5	3.30
Siemens/PC Immulite 2000/2500	10	65.475	6.0	1.54
Siemens Centaur CP	9	63.481	8.8	2.34
Roche Cobas e801	9	64.547	5.8	1.57
Mindray CL-Series	7	49.759	6.6	1.56
Siemens Atellica IM	3	65.961	3.2	1.51
Perkin Elmer DELFA	2	99.099	6.2	5.45



TDPA = 20.2%

Sample Number

Mean for Comparison

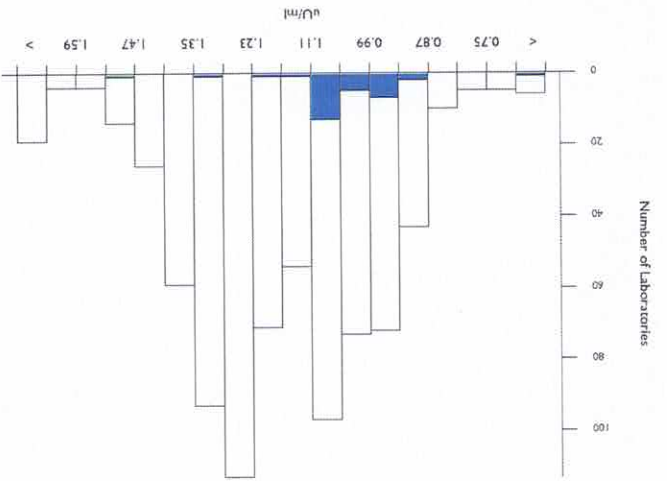
Sample Number

TSH, uU/ml

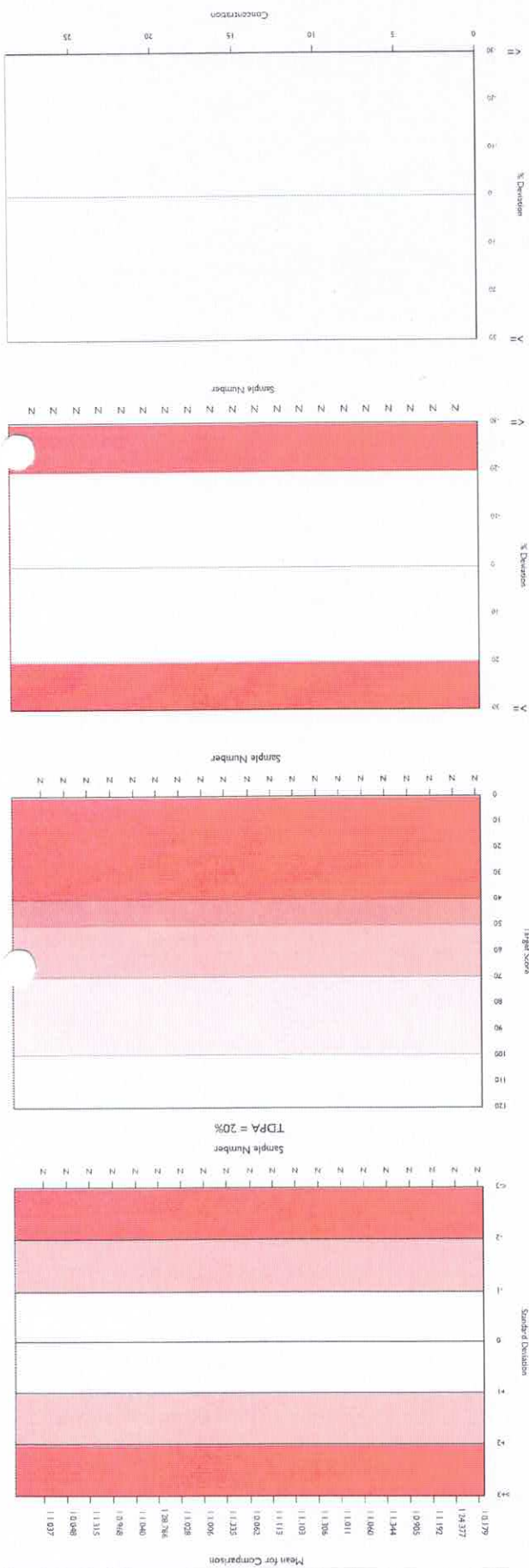
Exc.	N	Mean	CV%	U _m SDPA
All Methods	724	1.173	13.7	0.01 0.14
Beckman Access Series	27	1.037	5.8	0.01 0.13
Beckman Access/LX1725 hyper TSH 3rd gen.	27	1.037	5.8	0.01 0.13
Beckman Access Series	4	1.037	5.8	0.01 0.13

Method	Your Result	Mean for Comparison
Beckman Access Series	No Result	1.037
Beckman Access/LX1725 hyper TSH 3rd gen.	No Result	1.037
Beckman Access Series	No Result	1.037

Method	RM%DEVI	RMTS	RM%DEVI
Beckman Access Series	Too Few	Too Few	Too Few
Beckman Access/LX1725 hyper TSH 3rd gen.	Too Few	Too Few	Too Few
Beckman Access Series	Too Few	Too Few	Too Few



Method	N	Mean	CV%	U _m
Roche Cobas 4000/e411	125	1.307	5.4	0.01
Roche Cobas e601	102	0.962	5.7	0.01
Roche Cobas e602	72	1.316	3.8	0.01
Abbott Architect/ Alinity	72	1.316	3.8	0.01
Roche Cobas e601/ 602	47	1.221	7.5	0.02
Biomérieux VIDAS TSH	38	1.177	16.0	0.04
Monobind Inc ELISA / CLIA	37	1.168	15.8	0.04
ELISA	27	1.037	5.8	0.01
Beckman Access/LX1725 hyper TSH 3rd gen.	27	1.037	5.8	0.01
Tosoh AIA Series	24	1.260	4.5	0.01
SNIBE Maglum analyzers	19	1.143	13.1	0.04
Siemens/DPC Immulite 1000	20	1.137	8.2	0.03
Ortho Vitros 3600/5600/EC/XT 7600	14	1.083	3.4	0.01
Beckman DXi600/800/ Access 2 (3rd IS)	14	1.055	9.0	0.03
Roche Elecsys	18	1.068	7.1	0.03
Beckman Access/LX1725 Fast TSH 2nd gen.	14	1.217	14.0	0.06
Siemens Centaur XP/XT/Classic	12	1.017	5.7	0.02
Siemens Dimension ExL LCI	15	1.017	5.5	0.03
Siemens/DPC Immulite 2000/2500	9	1.182	4.9	0.02
Siemens Centaur XP/XT/ClassicTSH3-Ultra	8	1.188	6.2	0.04
BioMérieux, VIDAS TSH3 UltraSensiv	10	1.245	1.7	0.01
Roche Cobas e801	10	1.370	8.6	0.05
Mindray CL-Series	8	1.370	8.6	0.05

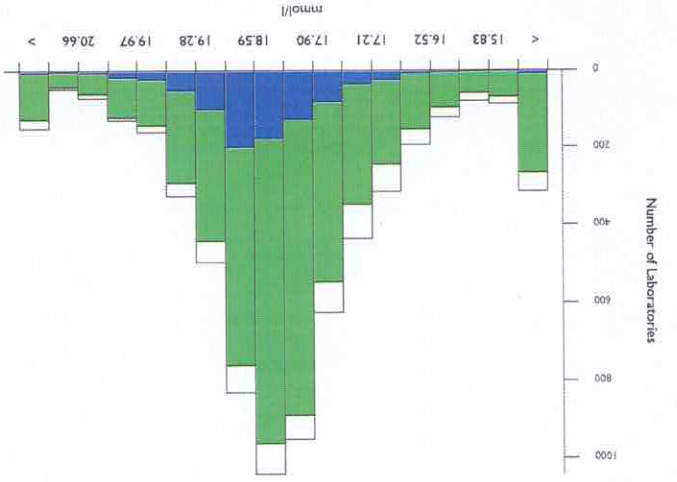


Urea, mmol/l

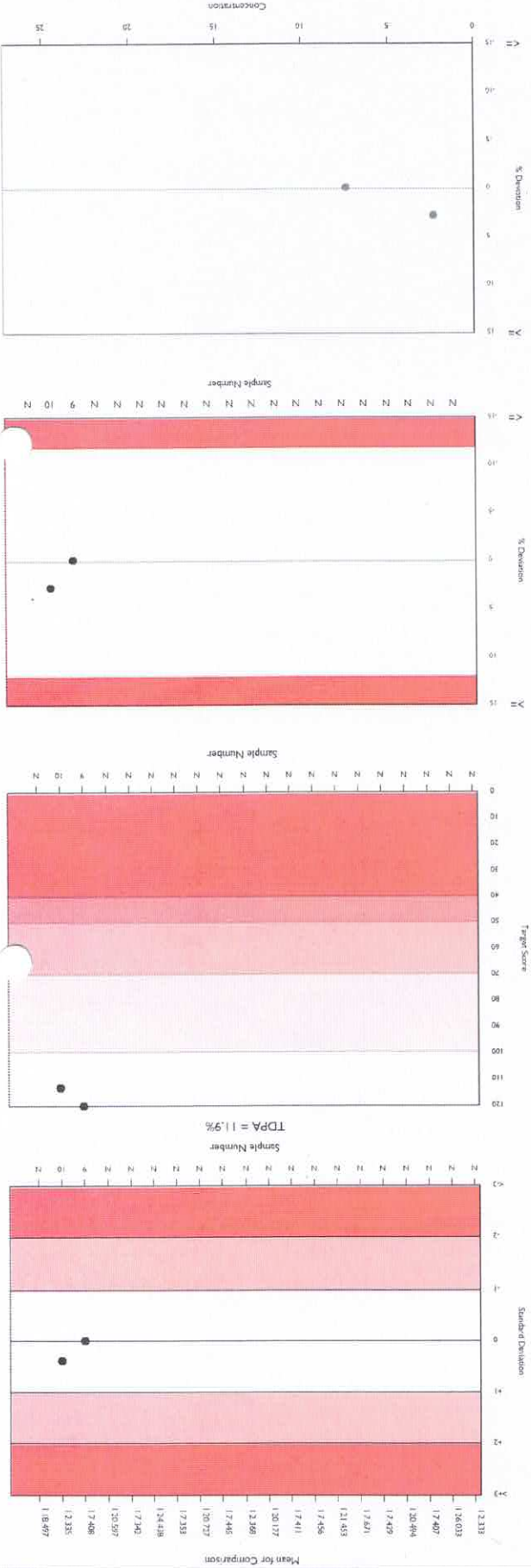
N	Mean	CV%	U _m	SDPA	Exc.
5824	18.252	5.0	0.02	1.32	553
5135	18.298	4.8	0.02	1.32	484
820	18.497	3.3	0.03	1.34	62

Method	TS	RM%SDI	RM%DEV
Beckman AU instruments	18.497	No Result	Too Few
Urease, kinetic	18.497	No Result	Too Few
All Methods	18.497	No Result	Too Few

Acceptable limits derived from Biological Variation
 Acceptable limits of performance for RIQAS
 N/A
 11.90%



Method	N	Mean	CV%	U _m
Urease, kinetic	5135	18.298	4.8	0.02
Urease, end point	319	18.269	6.6	0.08
Ortho Vitros MicroSlide Systems	157	17.228	2.8	0.05
Urease, hypochlorite	107	17.859	6.6	0.14
Agappe - URLEASE GLDH	38	17.526	6.1	0.22
Beckman - Conductivity	25	18.284	2.9	0.13
Other Dry Chemistry	21	18.572	5.0	0.25
Agappe - BERTHELOT	5	17.895	3.5	0.35
Diacey/ monoxime	4	17.569	1.0	0.11
O-Phthalaldehyde	4	19.220	9.9	1.18

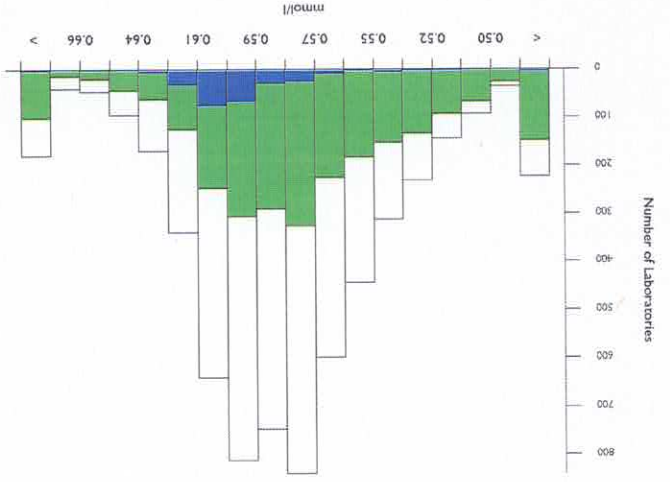


Uric Acid (Urate), mmol/l

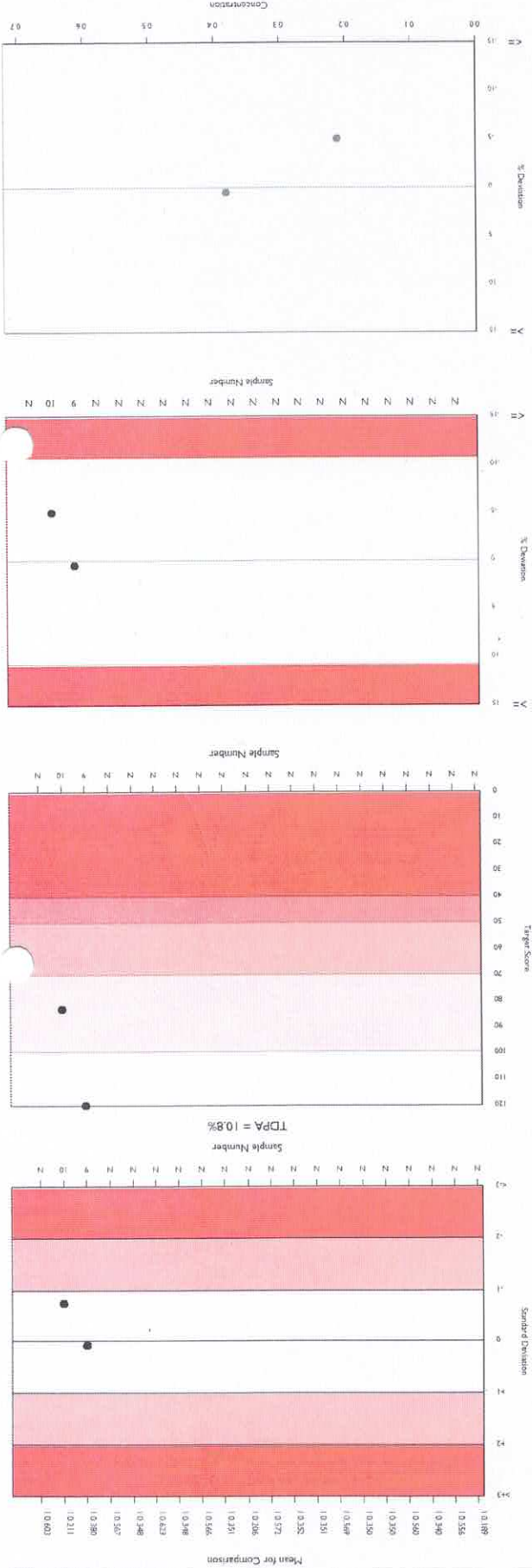
Exc.	U _m	SDPA	Mean	CV%	N
	0.04	0.00	0.585	5.1	511
	0.04	0.00	0.579	5.9	231
	0.00	0.00	0.603	2.5	239
	0.04	0.00			24

Legend	TS	RM%SDI	RM%DEV
▲ Your Result	No Result	Too Few	Too Few
■ Mean for Comparison	0.603	Too Few	Too Few

Acceptable limits derived from Biological Variation
 Acceptable limits of performance for RIQAS
 N/A
 10.80%



Method	N	Mean	CV%	U _m
Uricase perox. no ascorb. ox.	2319	0.579	5.9	0.00
Uricase perox. with ascorb. ox.	1641	0.593	4.2	0.00
Uricase @ 293 nm	154	0.594	1.8	0.00
Ortho Vitros MicroSlide Systems	160	0.553	3.2	0.00
Uricase, catalase 340nm.	132	0.595	2.4	0.00
Other Dry Chemistry	24	0.615	5.9	0.01
Agappe - URICASE - TOPS	19	0.573	5.9	0.01
Agappe - URICASE - PAP	19	0.600	7.5	0.01
Reduction methods	15	0.602	4.6	0.01
Virios DT60/DT60 II	3	0.559	3.4	0.01



Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	27.327	No Result		Too Few		Too Few		Too Few	
Alkaline Phosphatase	362.425	No Result		Too Few		Too Few		Too Few	
ALT (GPT)	131.801	No Result		Too Few		Too Few		Too Few	
Amylase, Pancreatic	208.914	No Result		Too Few		Too Few		Too Few	
AST (GOT)	166.579	No Result		Too Few		Too Few		Too Few	
Bicarbonate	17.386	No Result		Too Few		Too Few		Too Few	
Bilirubin, Direct	22.602	No Result		Too Few		Too Few		Too Few	
Bilirubin, Total	86.283	No Result		Too Few		Too Few		Too Few	
Calcium	3.226	No Result		Too Few		Too Few		Too Few	
Chloride	113.003	No Result		Too Few		Too Few		Too Few	
Cholesterol	7.128	No Result		Too Few		Too Few		Too Few	
CK, Total	551.951	No Result		Too Few		Too Few		Too Few	
Creatinine	356.955	No Result		Too Few		Too Few		Too Few	
EGFR (Pilot)	13.937	No Result		Too Few		Too Few	N/A	N/A	
GGT	155.209	No Result		Too Few		Too Few		Too Few	
Glucose	15.205	No Result		Too Few		Too Few		Too Few	
HDL-Cholesterol	2.370	No Result		Too Few		Too Few		Too Few	
Iron	36.093	No Result		Too Few		Too Few		Too Few	
Magnesium	1.785	No Result		Too Few		Too Few		Too Few	
Phosphate, Inorganic	2.243	No Result		Too Few		Too Few		Too Few	
Potassium	5.849	No Result		Too Few		Too Few		Too Few	
Protein, Total	45.073	No Result		Too Few		Too Few		Too Few	
Sodium	157.384	No Result		Too Few		Too Few		Too Few	
Free T3	10.584	No Result		Too Few		Too Few		Too Few	
Free T4	57.944	No Result		Too Few		Too Few		Too Few	
TSH	1.037	No Result		Too Few		Too Few		Too Few	
Urea	18.497	No Result		Too Few		Too Few		Too Few	
Uric Acid (Urate)	0.603	No Result		Too Few		Too Few		Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

$$SDI = \frac{\text{Lab Mean} - \text{group mean}}{\text{group SDI}}$$

END OF REPORT

Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	39.076	38.900	-0.08	Too Few	-0.4	Too Few	120	Too Few	
Alkaline Phosphatase	202.085	197.000	-0.22	Too Few	-2.5	Too Few	120	Too Few	
ALT (GPT)	40.371	41.800	0.38	Too Few	3.5	Too Few	114	Too Few	
Amylase, Pancreatic	64.283	No Result		Too Few		Too Few		Too Few	
AST (GOT)	44.627	38.400	-1.41	Too Few	-14.0	Too Few	52	Too Few	
Bicarbonate	12.074	12.000	-0.06	Too Few	-0.6	Too Few	120	Too Few	
Bilirubin, Direct	20.094	20.300	0.07	Too Few	1.0	Too Few	120	Too Few	
Bilirubin, Total	29.003	30.300	0.47	Too Few	4.5	Too Few	105	Too Few	
Calcium	2.219	2.220	0.01	Too Few	0.1	Too Few	120	Too Few	
Chloride	96.283	96.000	-0.11	Too Few	-0.3	Too Few	120	Too Few	
Cholesterol	4.184	4.060	-0.54	Too Few	-3.0	Too Few	98	Too Few	
CK, Total	207.868	211.000	0.21	Too Few	1.5	Too Few	120	Too Few	
Creatinine	128.518	130.700	0.23	Too Few	1.7	Too Few	120	Too Few	
EGFR (Pilot)	44.556	No Result		Too Few		Too Few	N/A	N/A	
GGT	48.781	50.500	0.45	Too Few	3.5	Too Few	106	Too Few	
Glucose	6.181	6.060	-0.39	Too Few	-2.0	Too Few	112	Too Few	
HDL-Cholesterol	1.318	1.420	0.65	Too Few	7.8	Too Few	91	Too Few	
Iron	19.444	20.130	0.61	Too Few	3.5	Too Few	93	Too Few	
Magnesium	0.879	0.890	0.20	Too Few	1.3	Too Few	120	Too Few	
Phosphate, Inorganic	1.378	1.370	-0.11	Too Few	-0.6	Too Few	120	Too Few	
Potassium	3.962	3.960	-0.02	Too Few	-0.1	Too Few	120	Too Few	
Protein, Total	57.285	58.100	0.28	Too Few	1.4	Too Few	120	Too Few	
Sodium	140.286	142.000	0.56	Too Few	1.2	Too Few	97	Too Few	
Free T3	6.697	No Result		Too Few		Too Few		Too Few	
Free T4	17.773	No Result		Too Few		Too Few		Too Few	
TSH	1.315	No Result		Too Few		Too Few		Too Few	
Urea	7.408	7.400	-0.02	Too Few	-0.1	Too Few	120	Too Few	
Uric Acid (Urate)	0.380	0.382	0.08	Too Few	0.5	Too Few	120	Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

END OF REPORT