

Proteus Laboratories

- ① All acceptable, except AST, Amylase was a no-return,  
no Amylase reagent.
- ② AST an issue. Root cause must be done, with RIQAS  
and Beckman. (showing Trend downwards)

# MONTHLY CLINICAL CHEMISTRY

CYCLE 17 SAMPLE 10

**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: 29/10/2020

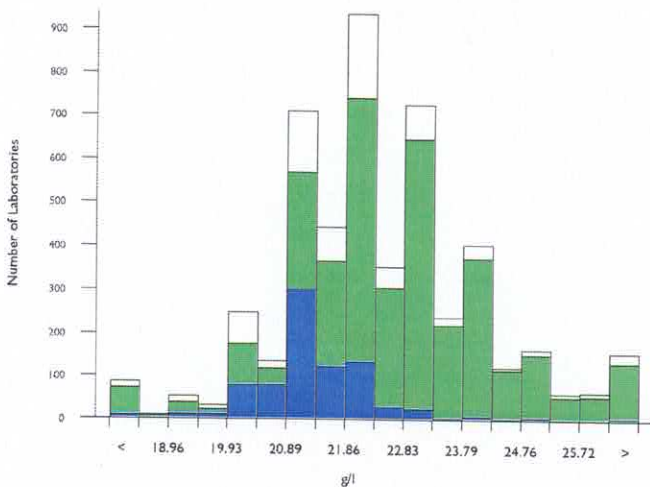
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# Albumin, g/l

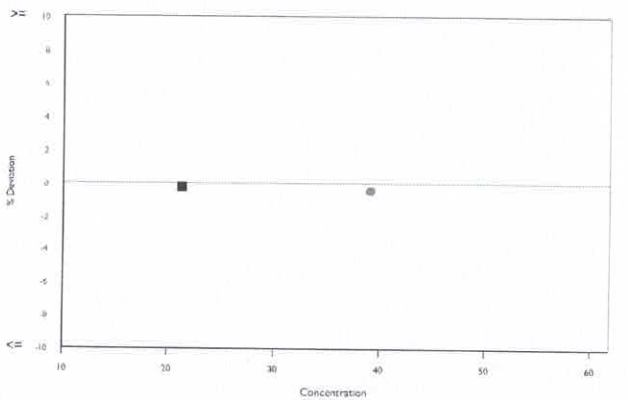
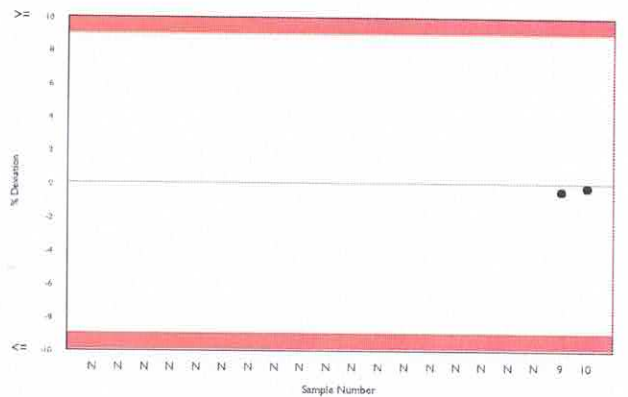
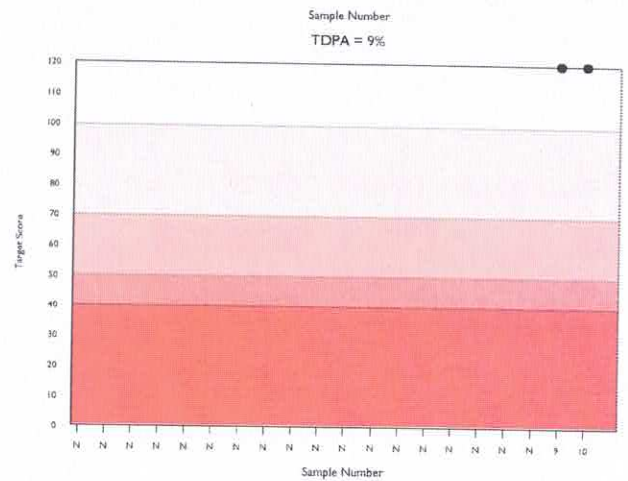
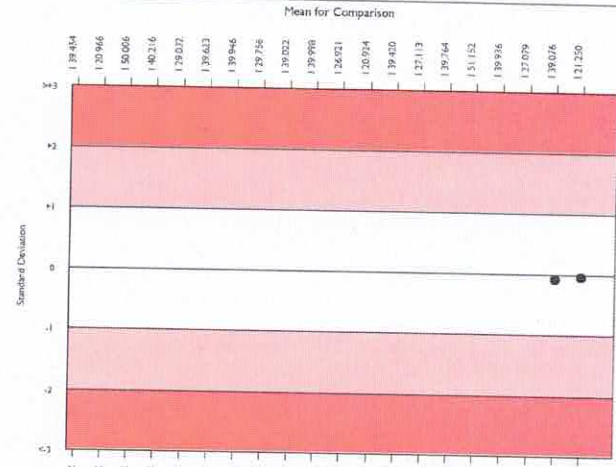
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	4572	22.348	5.8	0.02	1.22	365
Bromocresol Green	3850	22.426	5.7	0.03	1.23	312
Beckman AU instruments	751	21.250	3.1	0.03	1.16	75

▲ Your Result	21.200	SDI	-0.04
		RMSDI	Too Few
■ Mean for Comparison	21.250	TS	120
		RMTS	Too Few
		%DEV	-0.2
		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 <sub>m</sub>
Bromocresol Green	3850	22.426	5.7	0.03
Bromocresol Purple	467	22.053	4.0	0.05
Ortho Vitros MicroSlide Systems	149	20.586	3.9	0.08
Agappe - Bromocresol Green	29	26.205	7.1	0.43
Turbidimetric Assays	27	22.062	4.8	0.25
Other Dry Chemistry	18	23.611	8.0	0.55
Nephelometric Assays	4	21.525	2.4	0.33
Vitros DT60/DT60 II/DTSC II	2	20.450	3.1	0.56
Electrophoresis	2	21.250	0.3	0.06

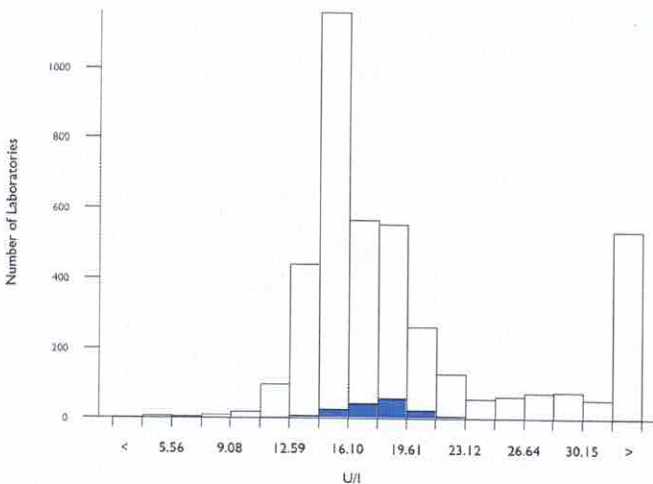


# Alkaline Phosphatase, U/l @ 37°C

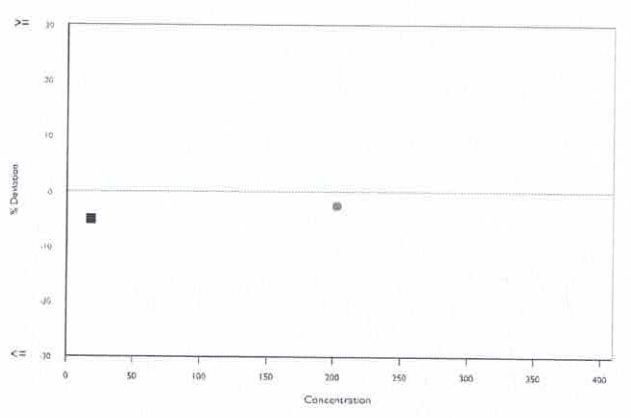
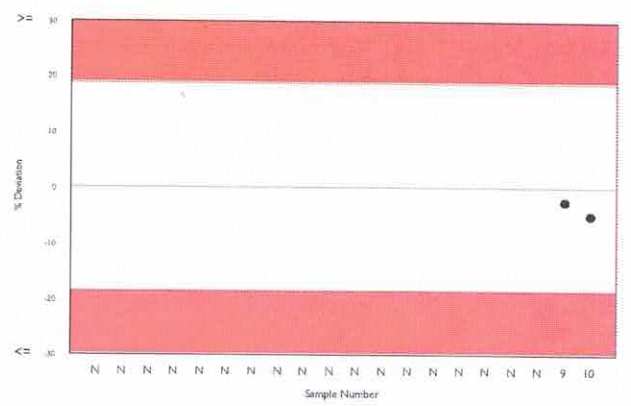
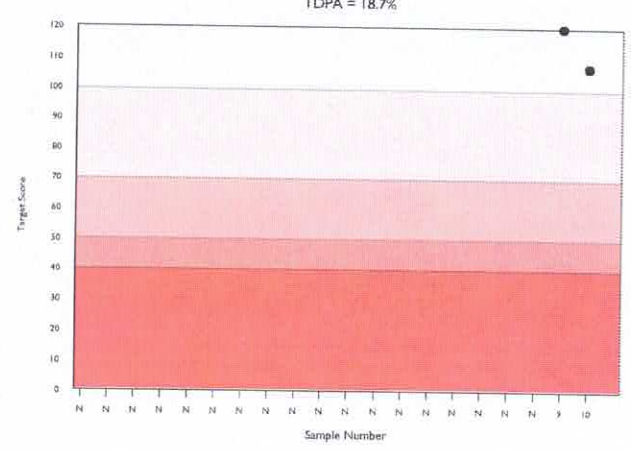
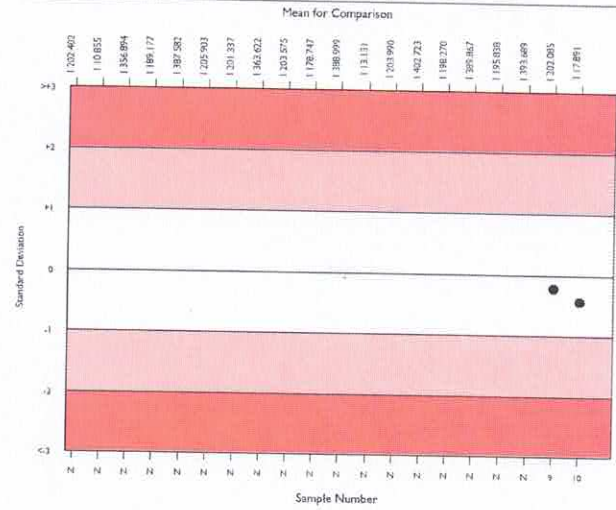
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	3655	17.861	26.2	0.10	2.03	500
Beckman AMP (Calibrator)	158	17.887	9.9	0.18	2.03	10
Beckman AU instruments	155	17.891	10.0	0.18	2.03	10

▲ Your Result	17.000	SDI	-0.44
		RMSDI	Too Few
■ Mean for Comparison	17.891	TS	107
		RMTS	Too Few
		%DEV	-5.0
		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 <sub>m</sub>
AMP optimised to IFCC	1438	17.428	18.6	0.11
Roche AMP buffer IFCC	988	15.482	7.9	0.05
Diethanolamine buffer, DEA	441	35.657	27.1	0.58
Siemens/Dade Dimension AMP buffer	206	14.960	17.7	0.23
AMP non-optimised	164	20.173	34.6	0.68
Ortho Vitros MicroSlide Systems	125	21.114	11.0	0.26
Beckman AMP (Calibrator)	158	17.887	9.9	0.18
Colorimetric	75	16.869	20.7	0.50
Other AMP kits	57	16.795	7.5	0.21
Other Dry Chemistry	22	24.450	24.1	1.57
Agappe - DGKC-SCE	12	24.865	19.1	1.71
Beckman AMP (Extinction Coeff)	11	17.489	11.1	0.73
Fuji Dri-Chem JSCC	2	21.500	3.3	0.62
AMP optimised to NVKC/SFBC	4	27.250	27.4	4.66
Tris/carbonate buffer	2	14.700	2.9	0.37
Vitros DT60/DT60 II/DTSC II	2	21.000	26.9	5.00
AMPD optimised to JSCC	2	20.500	24.1	4.37

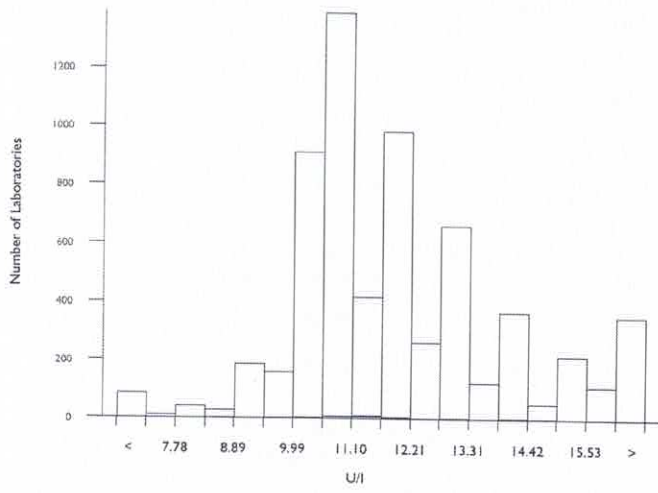
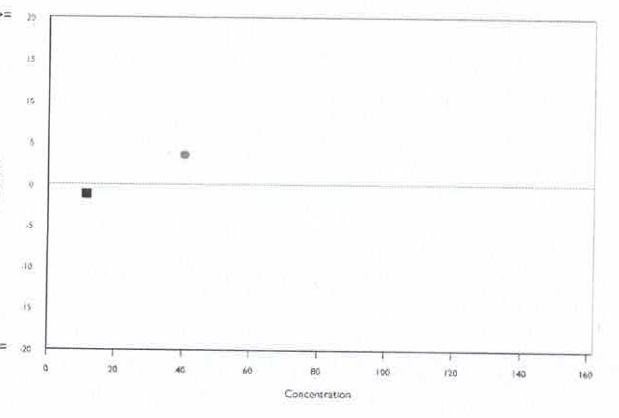
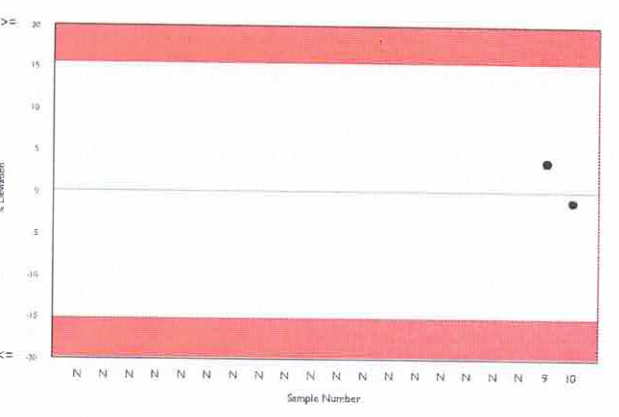
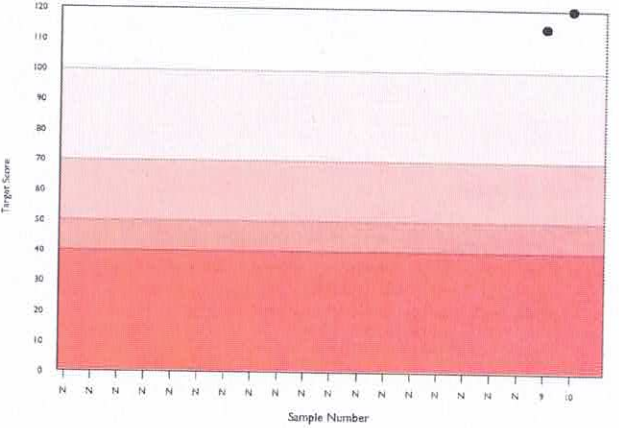
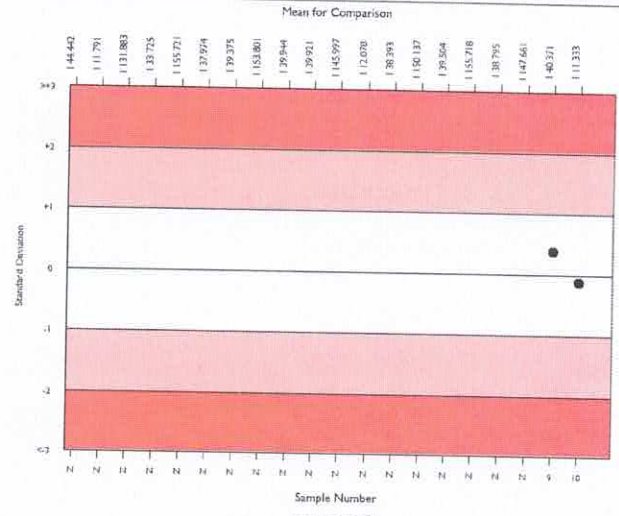


# ALT (GPT), U/I @ 37°C

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5795	11.659	12.7	0.02	1.08	563
Beckman IFCC Ref. with P5P	30	11.363	7.0	0.18	1.06	4
Beckman AU instruments	24	11.333	6.9	0.20	1.05	3

▲ Your Result	11.200	SDI	-0.13
		RMSDI	Too Few
■ Mean for Comparison	11.333	TS	120
		RMTS	Too Few
		%DEV	-1.2
		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 <sub>m</sub>
Tris buffer without P5P	4431	11.502	11.9	0.03
Tris buffer with P5P	439	12.911	17.4	0.13
Beckman Mod. IFCC Ref. without P5P	429	11.232	6.0	0.04
Siemens/Dade standard nonIFCC correlated	158	14.495	12.0	0.17
Ortho Vitros MicroSlide Systems	117	13.854	12.1	0.19
Agappe - IFCC	43	12.728	10.9	0.26
Ortho Vitros MicroSlide visible	45	13.680	6.0	0.15
Colorimetric	33	11.409	7.9	0.20
Beckman IFCC Ref. with P5P	30	11.363	7.0	0.18
Other Dry Chemistry	28	13.982	10.9	0.36
Phosphate buffer, DGKC	28	12.496	12.1	0.36
Tris buffer, SCE	23	12.008	20.2	0.63
Tris buffer with P5P, NVKC	15	12.240	15.5	0.61
Beckman (Extinction Coefficient)	2	12.200	9.3	1.00
Vitros DT60/DT60 II/DTSC II	1	13.000	0.0	0.00

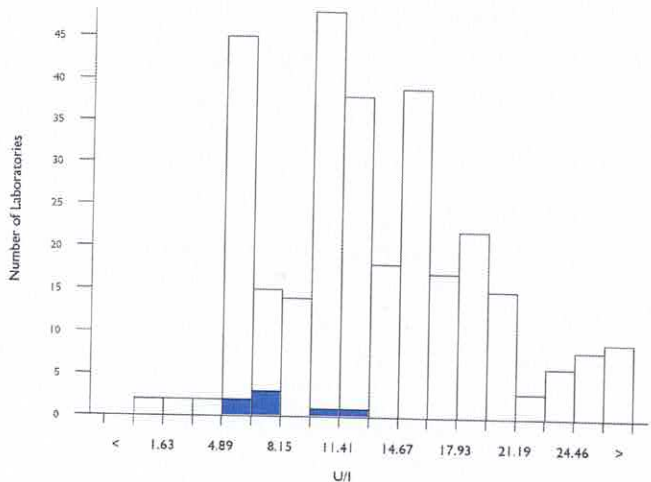


# Amylase, Pancreatic, U/I @ 37°C

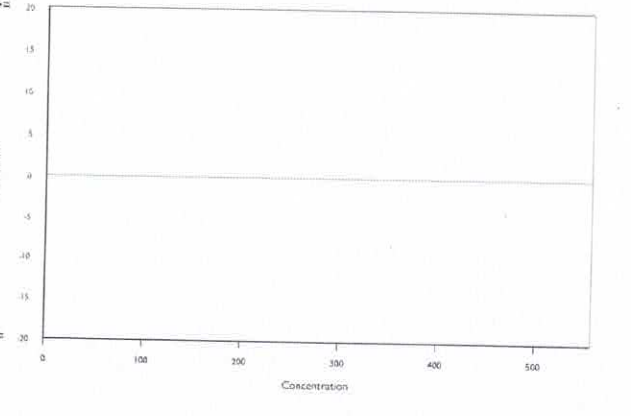
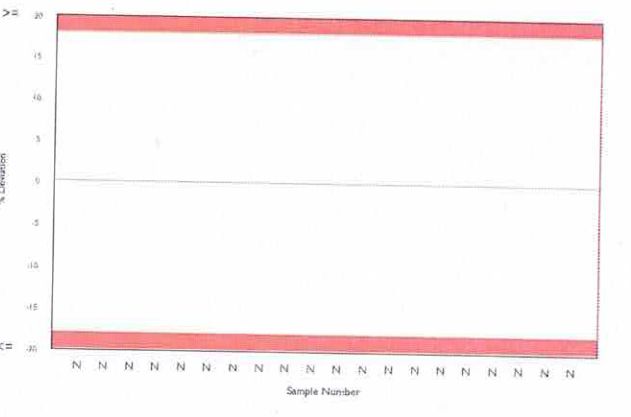
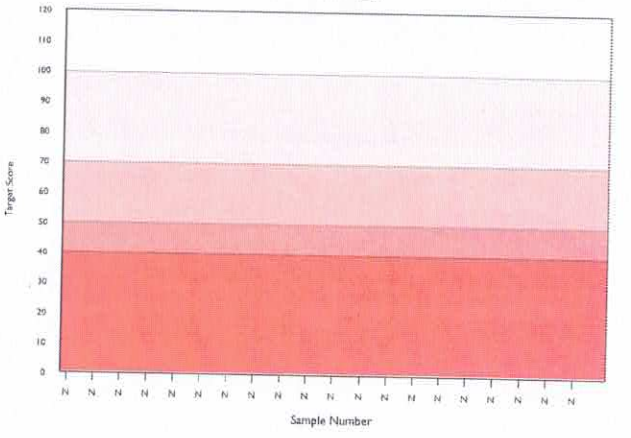
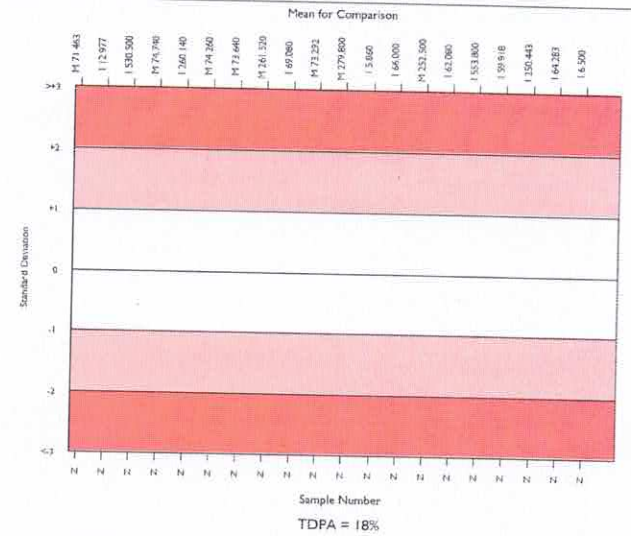
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	272	12.333	37.2	0.35	1.35	38
Beckman Synchron/CX/LXI/DxC	5	6.500	7.2	0.26	0.76a	2
Beckman AU instruments	5	6.500	7.2	0.26	0.76a	2

▲ Your Result	No Result	SDI	RMSDI	Too Few
■ Mean for Comparison	6.500	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 <sub>m</sub>
Immuno-inhibition, EPS substrate	128	11.298	45.3	0.56
Roche Liquid Stable pNPG7	114	13.768	21.7	0.35
Amylolytic Methods	10	11.273	48.8	2.17
Other Dry Chemistry	6	11.350	25.2	1.46
Beckman Synchron/CX/LXI/DxC	5	6.500	7.2	0.26
Randox Liquid Stable pNPG7	4	16.850	23.1	2.43



# AST (GOT), U/I @ 37°C

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5717	12.351	15.0	0.03	1.09	629
Beckman IFCC Ref. with P5P	22	14.980	23.6	0.94	1.62a	0
Beckman AU instruments	15	16.535	18.9	1.01	1.77a	0

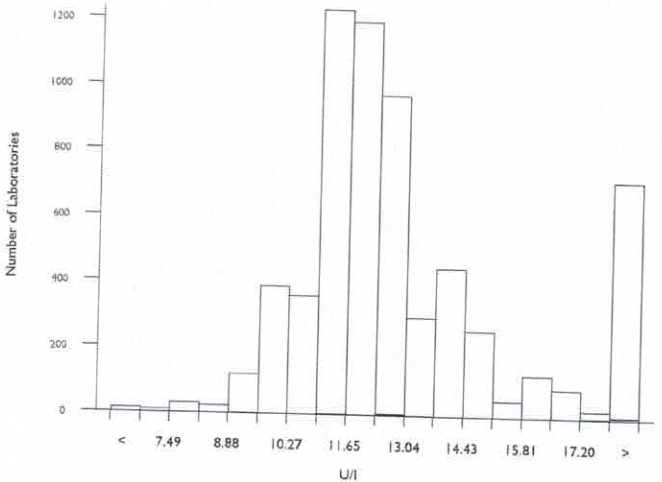
▲ Your Result	12.800	SDI	-2.11
		RMSDI	Too Few
■ Mean for Comparison	16.535	TS	31
		RMTS	Too Few
		%DEV	-22.6
		RM%DEV	Too Few

Acceptable limits derived from Biological Variation: N/A

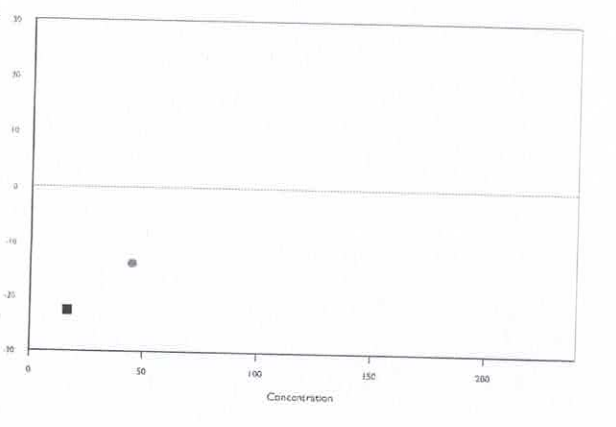
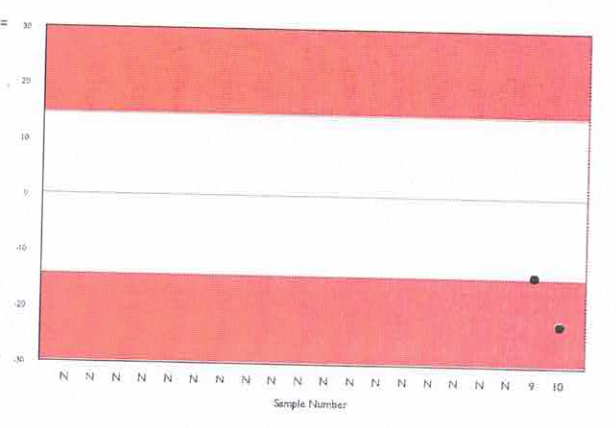
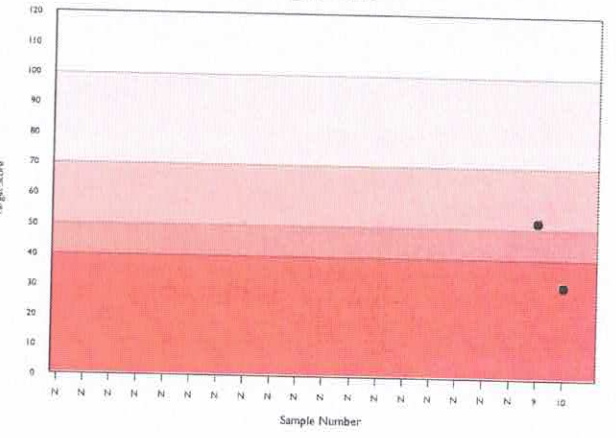
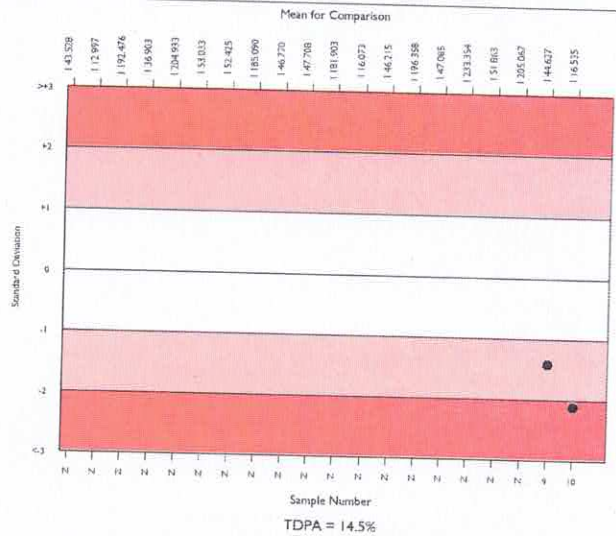
Acceptable limits of performance for RIQAS: 14.50%

SDI in bottom 5% of peer group

TS & %DEV outside limits



Method	N	Mean	CV%	U <sub>m</sub>
Tris buffer without P5P	4458	11.974	11.4	0.03
Beckman Mod. IFCC Ref. without P5P	452	12.593	6.5	0.05
Tris buffer with P5P	404	16.825	20.4	0.21
Siemens/Dade standard non IFCC corr.	180	18.187	16.2	0.28
Ortho Vitros MicroSlide visible	165	21.666	4.7	0.10
Agappe - IFCC	45	12.871	11.4	0.27
Colorimetric	39	11.935	15.2	0.36
Other Dry Chemistry	25	14.708	8.0	0.29
Phosphate buffer, DGKC	27	12.400	10.8	0.32
Tris buffer, SCE	20	12.230	14.3	0.49
Beckman IFCC Ref. with P5P	22	14.980	23.6	0.94
Tris buffer with P5P, NVKC	7	11.857	11.1	0.62
Beckman (Extinction Coefficient)	5	12.320	8.7	0.60
Vitros DT60/DT60 II/DTSC II	2	21.500	3.3	0.62



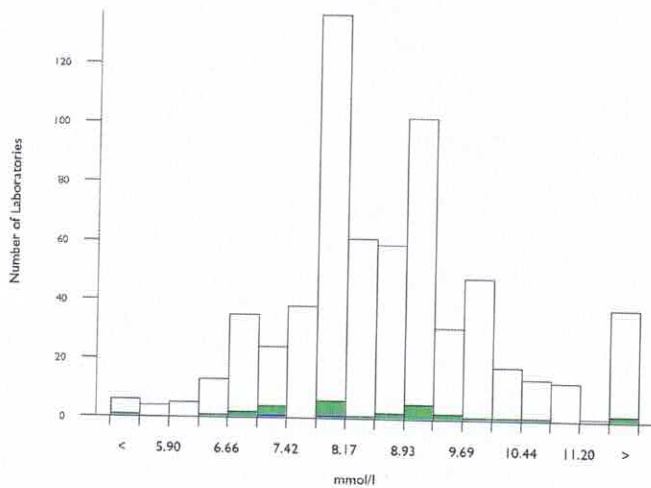
# Bicarbonate, mmol/l

- All Methods
- Colorimetric
- Beckman AU instruments

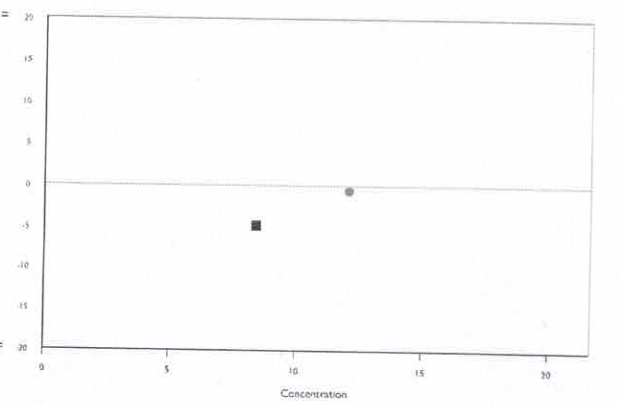
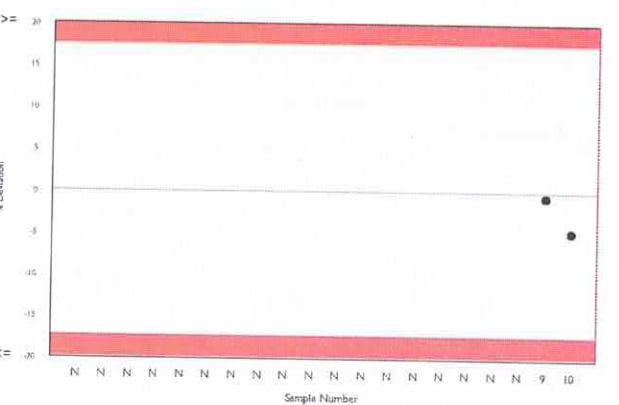
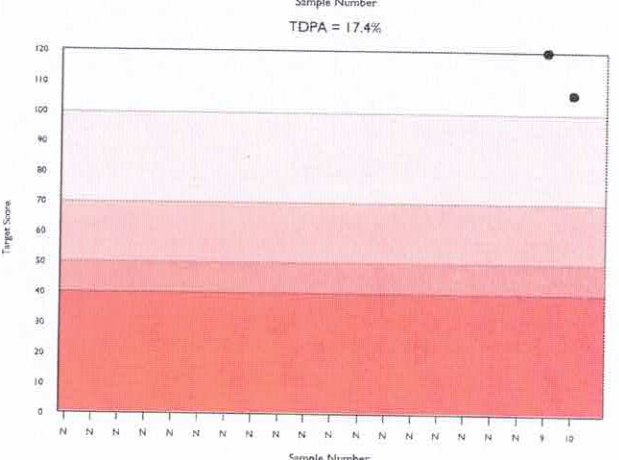
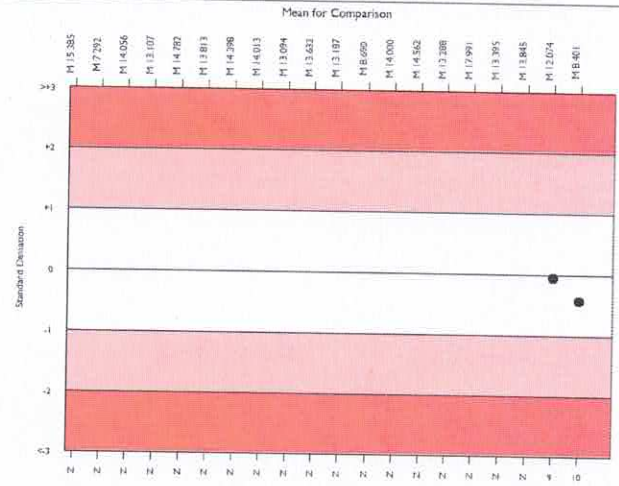
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	593	8.556	11.8	0.05	0.91	61
Colorimetric	26	8.401	13.2	0.27	0.93a	3
Beckman AU instruments	2	7.535	8.7	0.58	0.99a	0

<span style="color: black;">▲</span> Your Result	8.000	SDI	-0.43
		RMSDI	Too Few
<span style="color: green;">■</span> Mean for Comparison	8.401	TS	106
		RMTS	Too Few
		%DEV	-4.8
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Enzymatic	384	8.529	10.2	0.06
PEP Carboxylase	85	8.375	12.1	0.14
Ortho Vitros MicroSlide Systems	38	9.261	16.8	0.32
Ion selective electrode	29	8.866	13.0	0.27
Colorimetric	26	8.401	13.2	0.27
Other Dry Chemistry	14	7.693	18.6	0.48
Differential rate pH change	6	8.200	7.0	0.29
Manometric	7	8.186	23.0	0.89



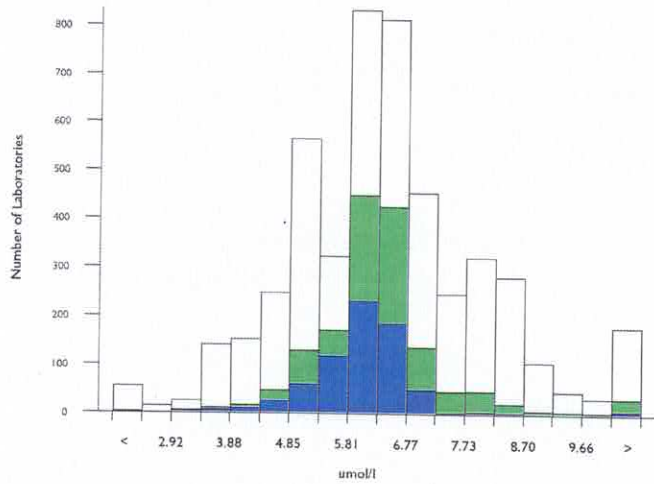
# Bilirubin, Direct, umol/l

- All Methods
- Dichlorophenyl Diazonium
- Beckman AU instruments

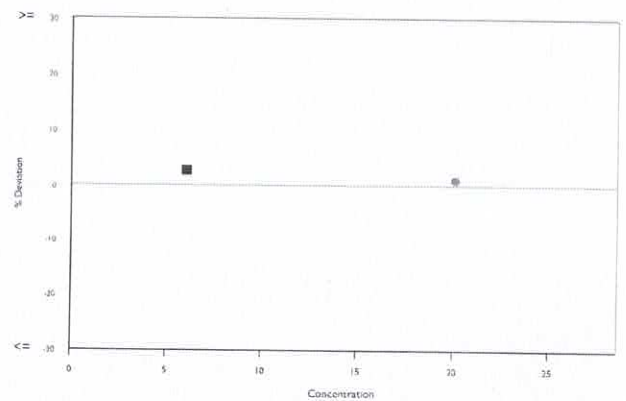
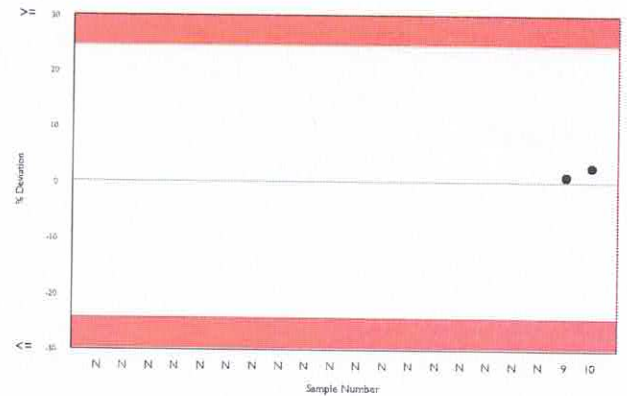
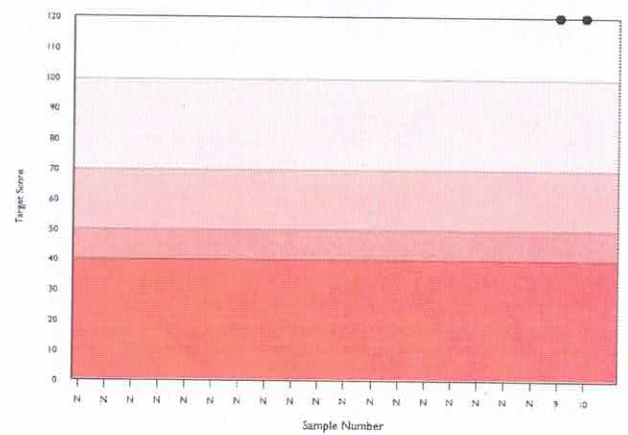
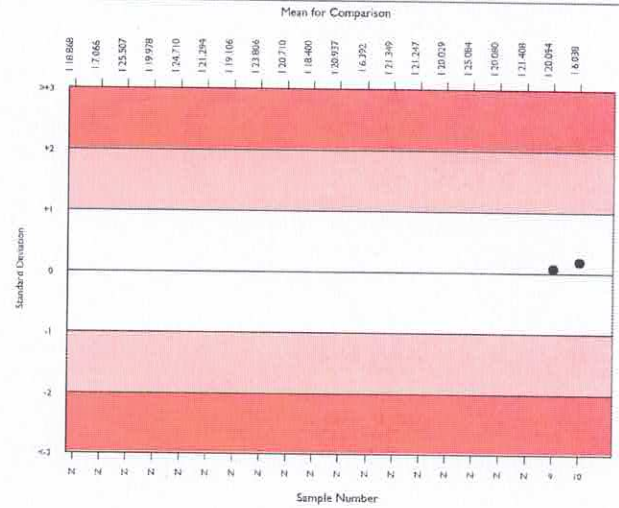
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	4513	6.295	20.4	0.02	0.93	331
Dichlorophenyl Diazonium	1413	6.151	10.2	0.02	0.91	155
Beckman AU instruments	665	6.038	8.9	0.03	0.90	55

<span style="color: black;">▲</span> Your Result	6.200	SDI	0.18
		RMSDI	Too Few
<span style="color: blue;">■</span> Mean for Comparison	6.038	TS	120
		RMTS	Too Few
		%DEV	2.7
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Diazo with Sulphanilic Acid	1729	6.417	23.2	0.04
Dichlorophenyl Diazonium	1413	6.151	10.2	0.02
Diazo with Dichloroaniline	402	7.416	14.3	0.07
Diazo/ Sulphanilic Siemens Dimension	261	4.551	8.9	0.03
Oxidation to Biliverdin/Vanadate	211	7.931	12.7	0.09
Roche DPD JG standardised	138	6.302	6.2	0.04
Roche DPD Doumas standardised	140	5.850	11.4	0.07
Diazo/Sulphanilic Beckman DxC	72	4.429	22.4	0.15
Agappe - DIAZO	25	5.728	24.4	0.35
Other Dry Chemistry	18	6.603	14.4	0.28
Roche (US calibrator only)	3	6.275	4.0	0.18

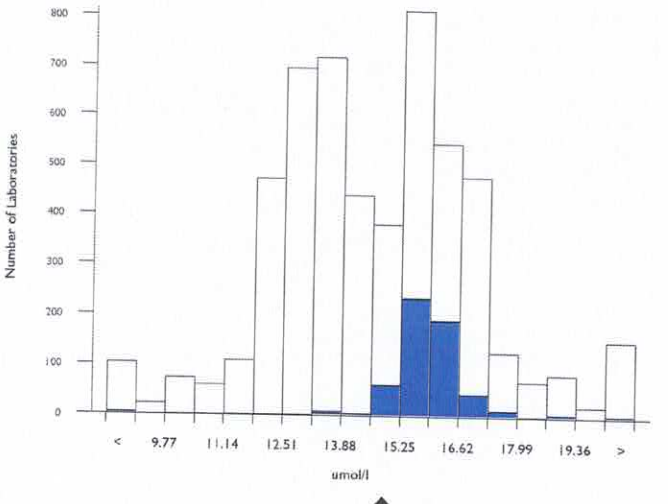


# Bilirubin, Total, umol/l

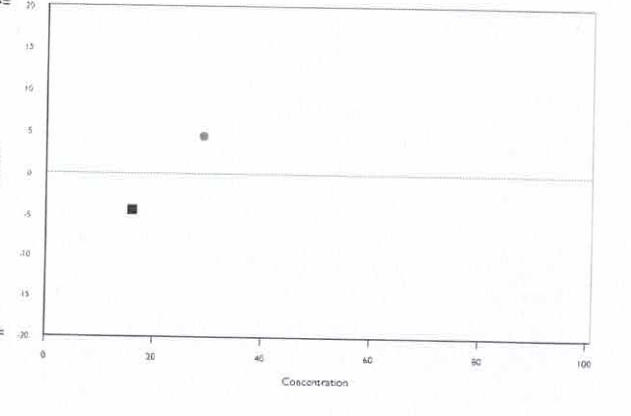
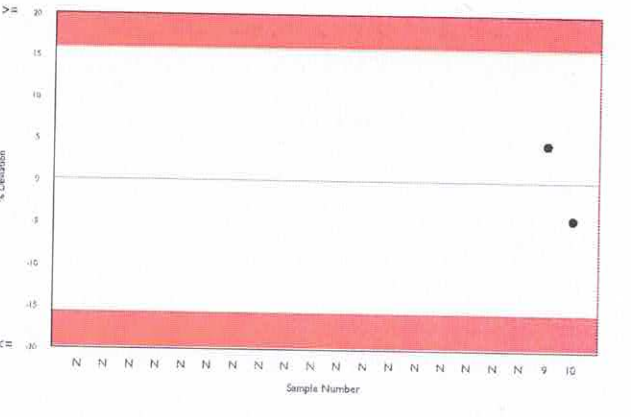
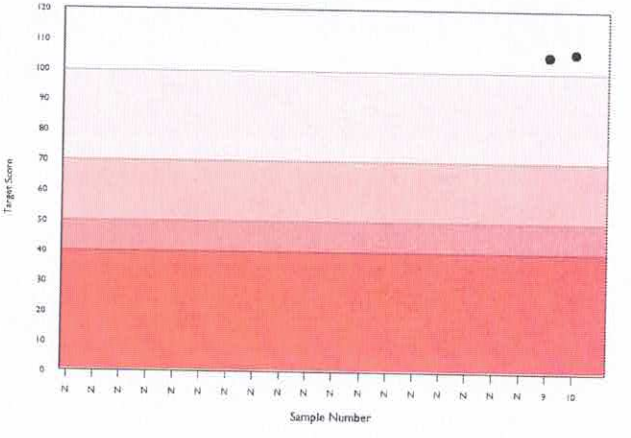
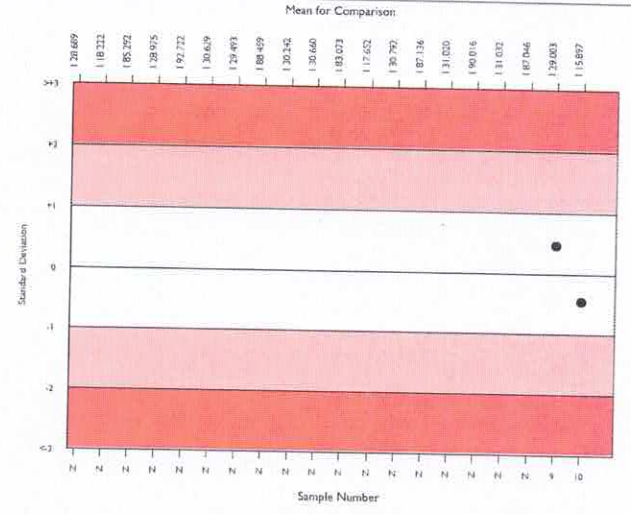
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5014	14.571	12.5	0.03	1.40	356
DPD (Beckman AU)	537	15.896	3.5	0.03	1.53	54
Beckman AU instruments	534	15.897	3.5	0.03	1.53	48

▲ Your Result	15.200	SDI	-0.46
		RMSDI	Too Few
■ Mean for Comparison	15.897	TS	106
		RMTS	Too Few
		%DEV	-4.4
		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 <sub>m</sub>
Diazo with Sulphanilic Acid	1991	14.731	12.7	0.05
Dichlorophenyl Diazonium	1121	13.769	11.2	0.06
DPD (Beckman AU)	537	15.896	3.5	0.03
Diazonium ion	432	13.285	8.3	0.07
Diazo with Dichloroaniline	400	15.083	10.4	0.10
Oxidation to Biliverdin/Vanadate	229	16.709	6.6	0.09
Ortho Vitros MicroSlide System Total Bil	153	11.841	16.1	0.19
Nitrobenzenediazonium Salt	25	13.768	7.0	0.24
Other Dry Chemistry	22	13.414	9.2	0.33
Agappe - TAB	17	14.430	7.2	0.32
Agappe - DMSO	8	14.397	7.9	0.50
Direct Spectrophotometry	5	17.321	15.5	1.50
Vitros DT60/DT60 II Total Bil	2	12.825	9.4	1.07

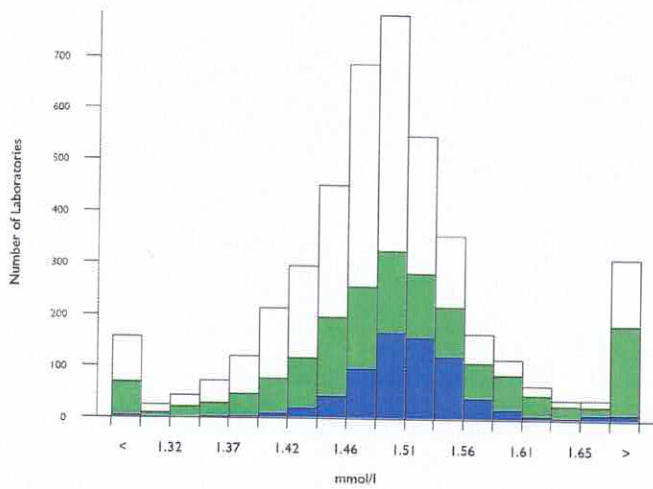


# Calcium, mmol/l

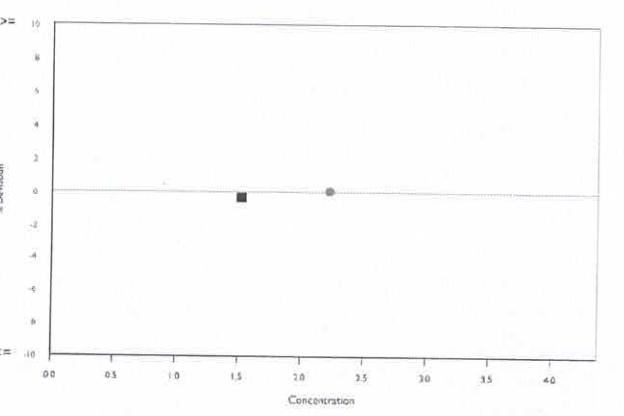
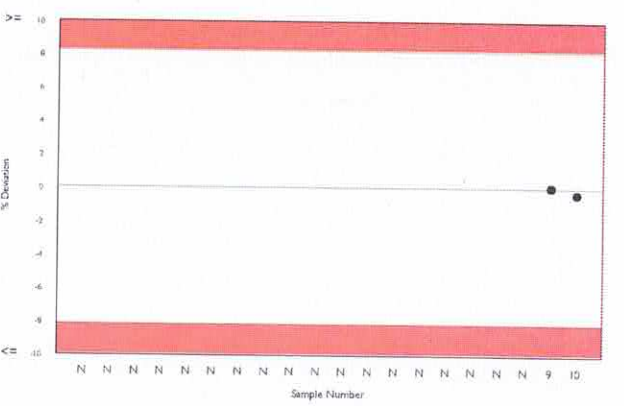
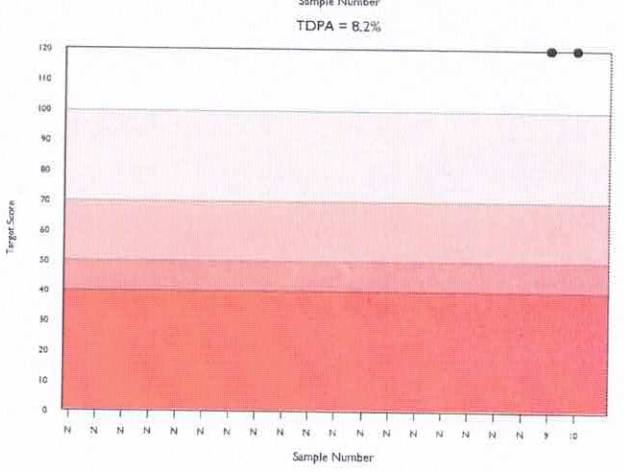
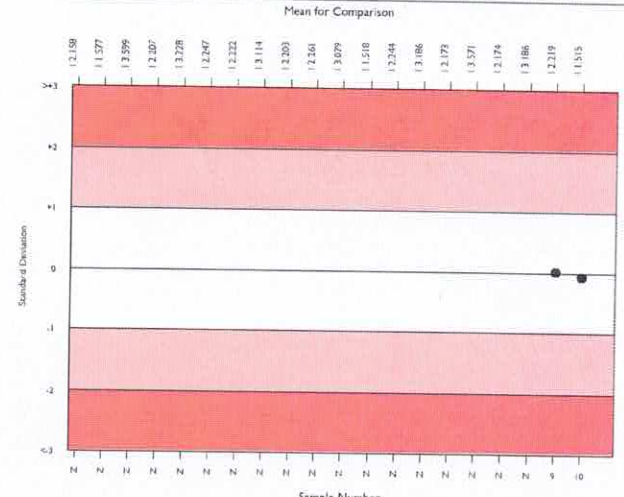
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	4024	1.492	4.3	0.00	0.07	462
Arsenazo	1912	1.507	4.7	0.00	0.08	216
Beckman AU instruments	666	1.515	2.4	0.00	0.08	62

▲ Your Result	1.510	SDI	-0.07
		RMSDI	Too Few
■ Mean for Comparison	1.515	TS	120
		RMTS	Too Few
		%DEV	-0.3
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Arsenazo	1912	1.507	4.7	0.00
Cresolphthalein complexone	1101	1.472	4.6	0.00
NM-BAPTA	702	1.491	2.6	0.00
Ortho Vitros MicroSlide Systems	162	1.479	2.8	0.00
Ion selective electrode	92	1.506	5.2	0.01
Other Dry Chemistry	22	1.447	4.8	0.02
Phosphonazo	19	1.513	6.8	0.03
Agappe - ARSENAZO	15	1.465	6.0	0.03
Methylthymol blue	14	1.519	13.3	0.07
Atomic absorption	1	1.450	0.0	0.00
Agappe - OCPC	1	1.480	0.0	0.00
Vitros DT60/DT60 II/DTSC II	2	1.463	3.6	0.05



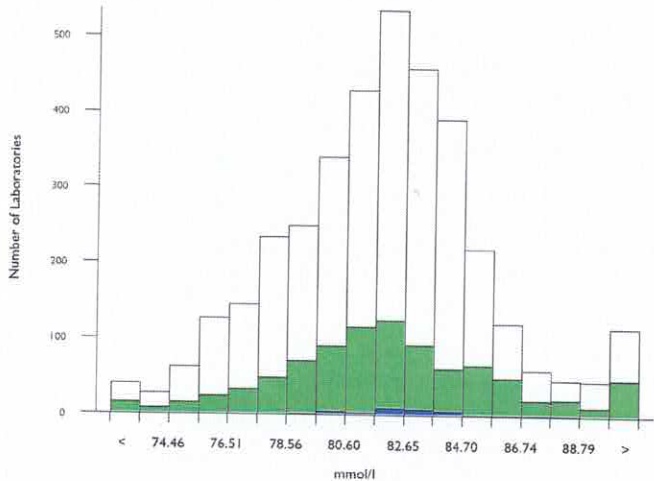
# Chloride, mmol/l

- All Methods
- ISE, direct
- Beckman AU instruments

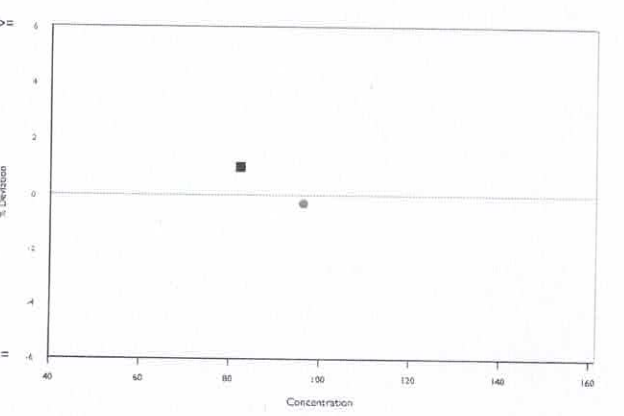
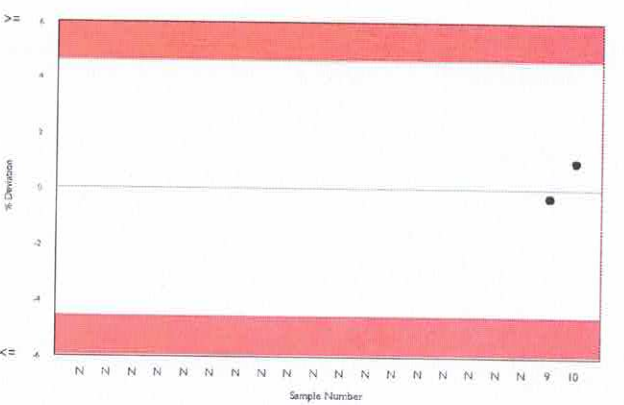
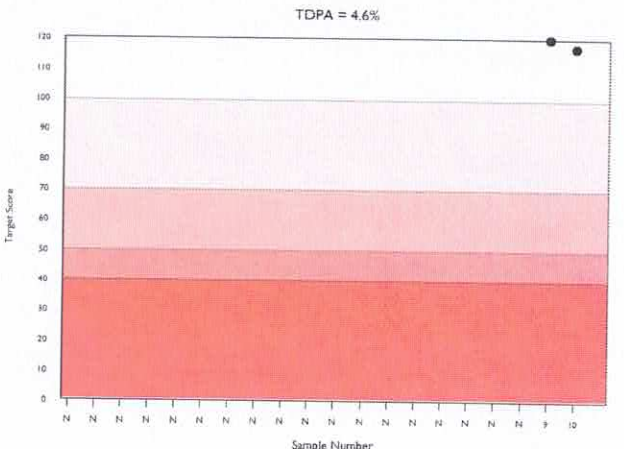
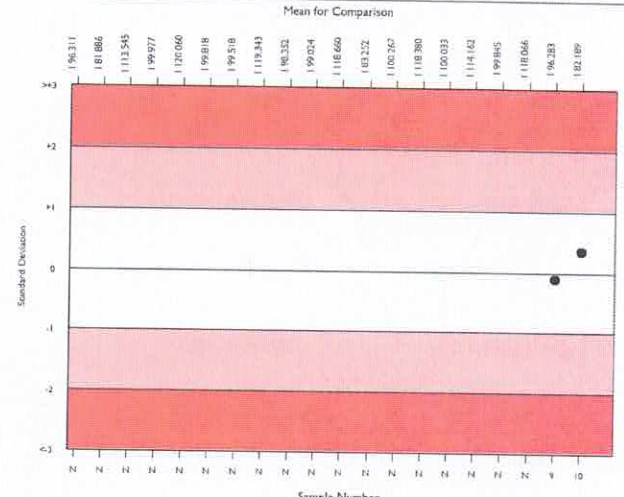
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	3357	81.631	3.3	0.06	2.28	289
ISE, direct	837	81.891	3.7	0.13	2.29	77
Beckman AU instruments	32	82.189	1.7	0.31	2.30	4

<span style="color: black;">▲</span> Your Result	83.000	SDI	0.35
		RMSDI	Too Few
<span style="color: blue;">■</span> Mean for Comparison	82.189	TS	117
		RMTS	Too Few
		%DEV	1.0
		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 <sub>m</sub>
ISE, indirect	2292	81.382	3.2	0.07
ISE, direct	837	81.891	3.7	0.13
Colorimetric	129	86.670	4.5	0.43
Ortho Vitros MicroSlide Systems	110	82.717	1.7	0.16
Other Dry Chemistry	19	83.042	2.3	0.54
Optical Fluorescence	7	86.214	2.2	0.90
Agappe - THIOCYANATE	2	89.000	14.3	11.25

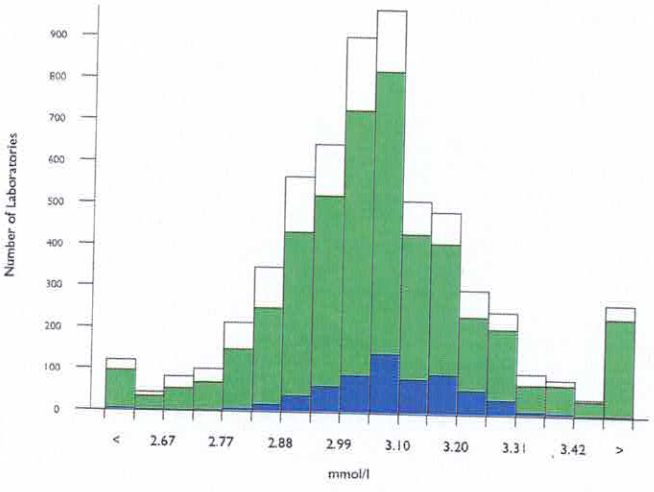


# Cholesterol, mmol/l

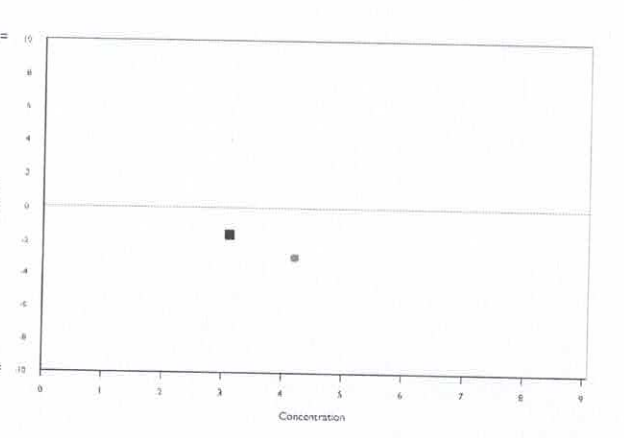
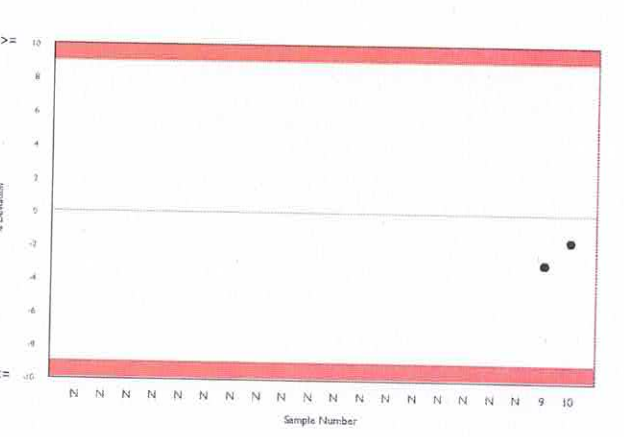
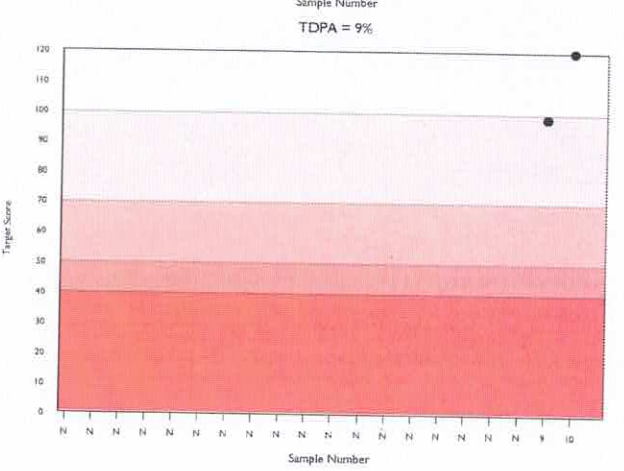
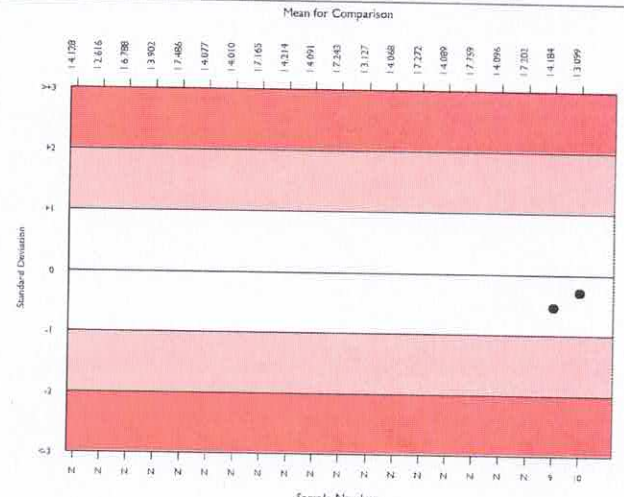
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5517	3.048	4.7	0.00	0.17	500
Cholesterol Oxidase - Abell Kendall	4408	3.055	4.5	0.00	0.17	438
Beckman AU instruments	635	3.099	3.5	0.01	0.17	43

▲ Your Result	3.050	SDI	-0.29
		RMSDI	Too Few
■ Mean for Comparison	3.099	TS	120
		RMTS	Too Few
		%DEV	-1.6
		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 <sub>m</sub>
Cholesterol Oxidase - Abell Kendall	4408	3.055	4.5	0.00
Cholesterol Oxidase - IDMS	554	3.054	4.6	0.01
Siemens Dimension	222	3.022	3.4	0.01
Ortho Vitros MicroSlide Systems	167	2.837	4.2	0.01
Cholesterol Dehydrogenase	65	3.115	5.3	0.03
Agappe - CHOD-PAP	43	3.091	6.2	0.04
Other Dry Chemistry	30	2.970	5.0	0.03
Vitros DT60/DT60 II/DTSC II	2	2.828	3.6	0.09

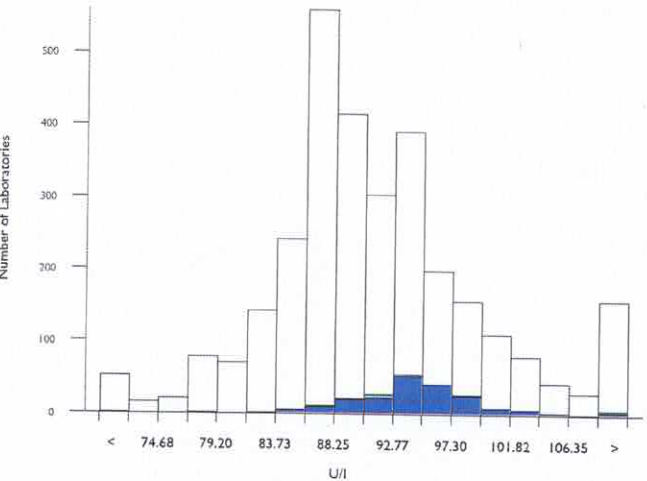


# CK, Total, U/I @ 37°C

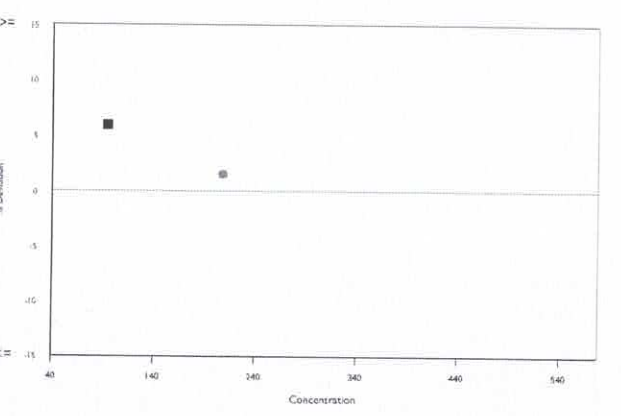
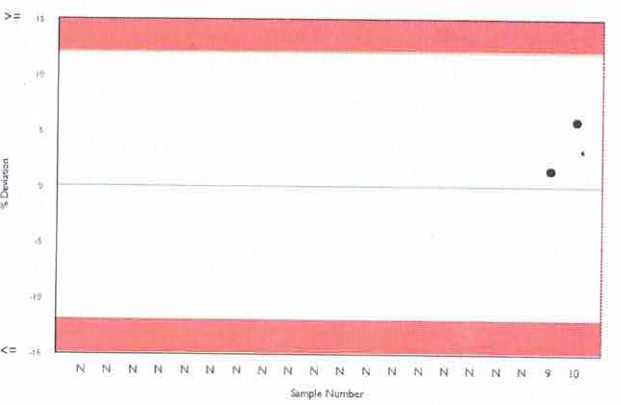
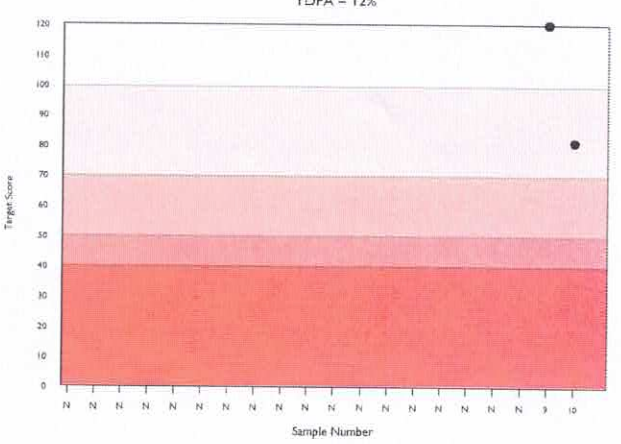
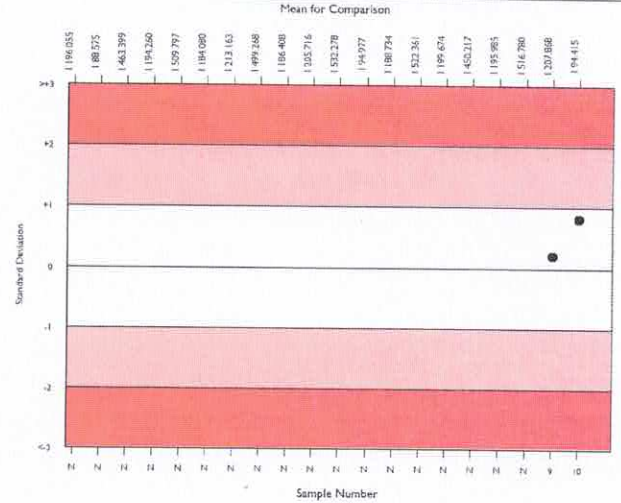
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2803	90.517	6.7	0.14	6.60	259
Beckman CK-NAC (IFCC)	201	94.186	4.0	0.33	6.87	21
Beckman AU instruments	189	94.415	3.9	0.33	6.89	20

▲ Your Result	100.000	SDI	0.81
		RMSDI	Too Few
■ Mean for Comparison	94.415	TS	81
		RM <sub>TS</sub>	Too Few
		%DEV	5.9
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
CK-NAC (IFCC)	1906	89.887	6.4	0.17
Abbott CK-NAC (IFCC)	205	90.177	4.5	0.35
Beckman CK-NAC (IFCC)	201	94.186	4.0	0.33
Ortho Vitros MicroSlide Systems	119	97.788	8.3	0.93
CK-NAC substrate start (DGKC)	120	88.874	8.8	0.90
Creatine phosphate substrate start	98	87.639	5.8	0.64
CK-NAC serum start (DGKC)	70	92.795	9.0	1.24
Monothioglycerol	41	93.419	3.3	0.61
Other Dry Chemistry	14	132.071	9.9	4.38
Agappe - IFCC/KINETIC	12	90.718	5.8	1.90
Beckman CK-NAC (Extinction Coeff)	9	97.576	2.3	0.94
Dithioerythritol (DTE), IFCC correlated	4	86.100	5.8	3.13

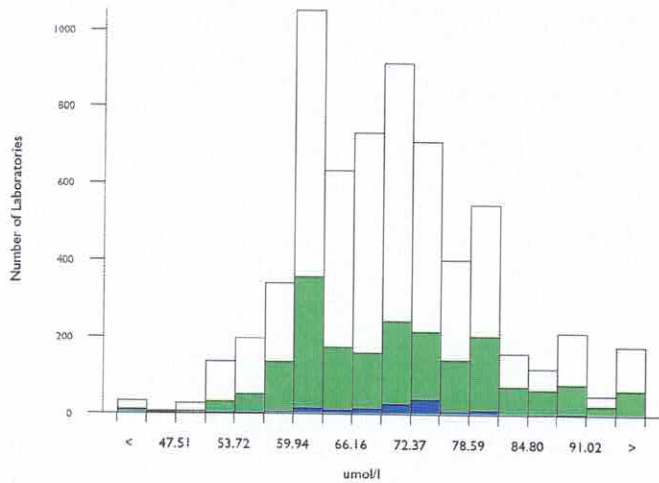


# Creatinine, umol/l

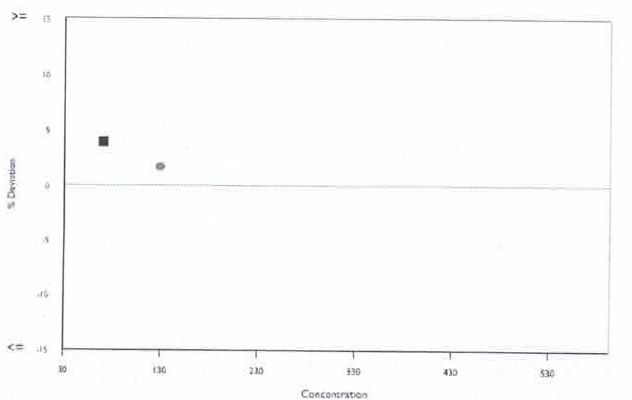
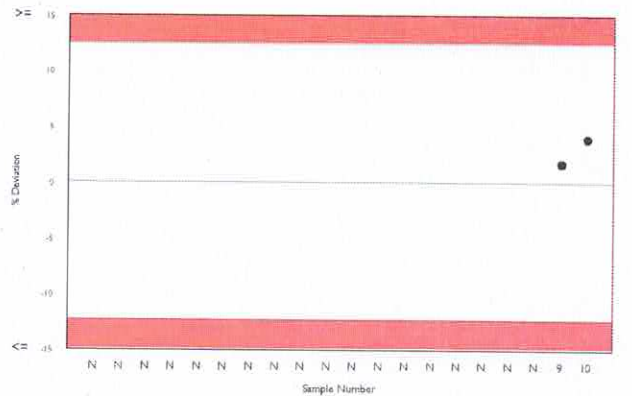
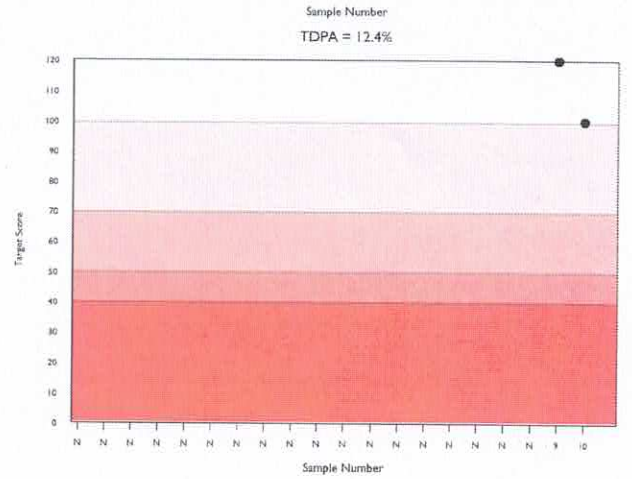
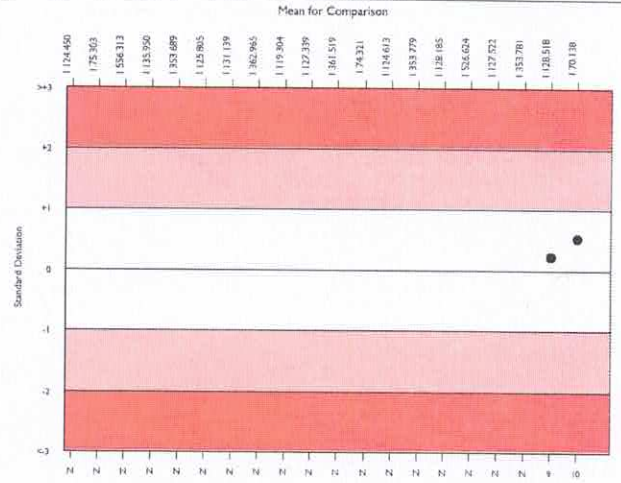
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	6097	69.268	12.0	0.13	5.22	342
Alkaline picrate no deproteinisation	1913	70.165	12.8	0.26	5.29	113
Beckman AU instruments	134	70.138	8.4	0.64	5.29	11

▲ Your Result	72.900	SDI	0.52
		RMSDI	Too Few
■ Mean for Comparison	70.138	TS	100
		RMTS	Too Few
		%DEV	3.9
		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 <sub>m</sub>
Alkaline picrate no deproteinisation	1913	70.165	12.8	0.26
Jaffe rate blanked	1416	73.968	0.5	0.26
Jaffe rate blanked comp. (-26umol/l)	615	64.054	6.2	0.20
Jaffe rate comp. (-18umol/l)	438	62.782	6.6	0.25
Roche Creatinine Plus	276	68.817	6.2	0.32
Creatinine PAP method	259	70.053	6.0	0.33
Enzymatic UV method (340nm)	254	69.847	6.2	0.34
IDMS traceable	186	66.591	9.5	0.58
Other enzymatic methods	158	68.940	5.9	0.41
Alkaline picrate with deproteinisation	157	72.707	11.7	0.85
Vitros, IDMS traceable	145	56.182	6.3	0.37
Jaffe rate blanked comp. (-33umol/l)	61	76.576	13.0	1.59
Other Dry Chemistry	38	60.877	10.7	1.32
Agappe - JAFFE'S KINETIC	31	76.631	10.5	1.80
Agappe - ENZYMATIC	18	69.122	11.7	2.37
Vitros DT60/DT60 II/DTSC II	12	54.097	5.2	1.02

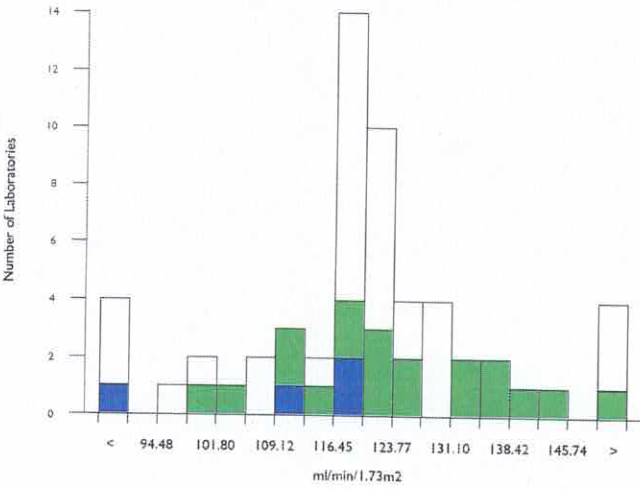


# EGFR (Pilot), ml/min/1.73m<sup>2</sup>

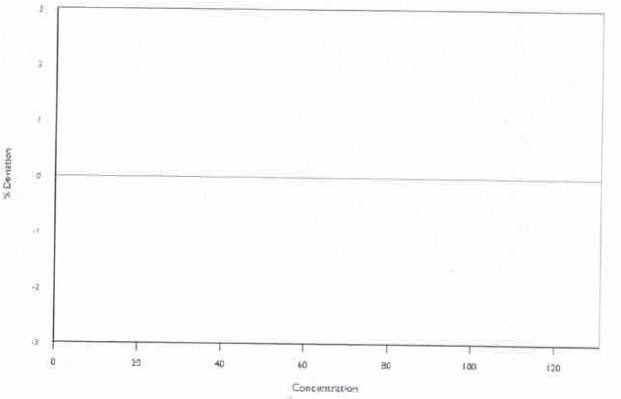
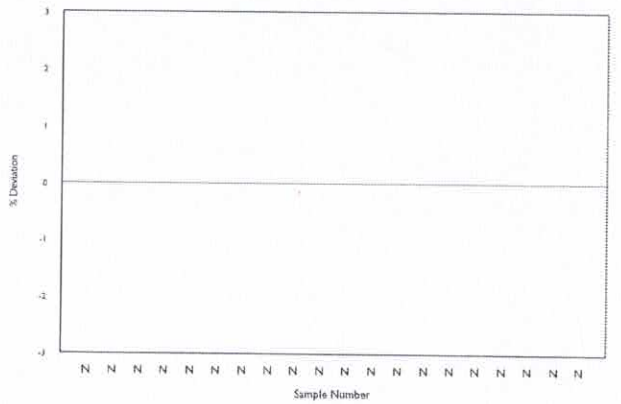
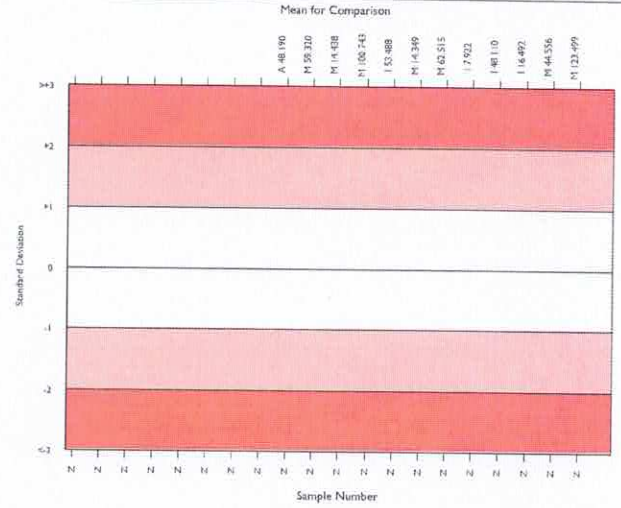
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	49	120.114	8.1	1.74	9.77	19
MDRD Equation	22	123.499	10.7	3.52	13.20	8
Beckman AU instruments	4	108.538	12.5	8.45	15.94a	0

Legend	Value	SDI	RMSDI	TS	RMSTS	%DEV	RM%DEV
▲ Your Result	No Result						
■ Mean for Comparison	123.499	Too Few		N/A			
						Too Few	

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



Method	N	Mean	CV%	U <sub>m</sub>
CKD-EPI Equation	28	118.576	6.5	1.81
MDRD Equation	22	123.499	10.7	3.52

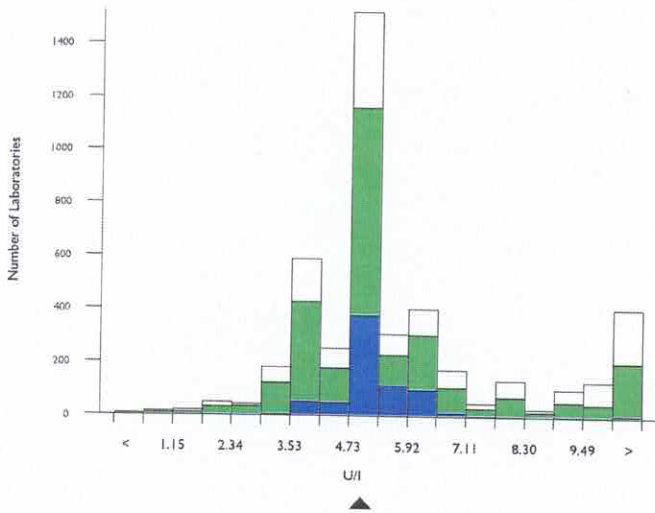


# GGT, U/I @ 37°C

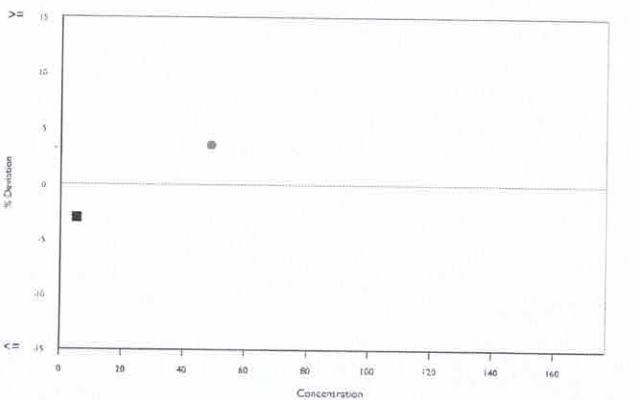
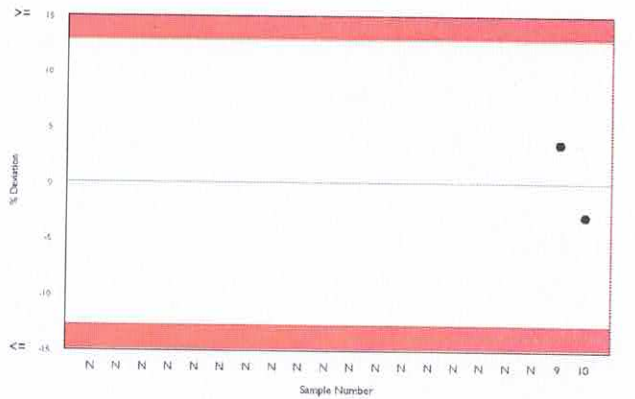
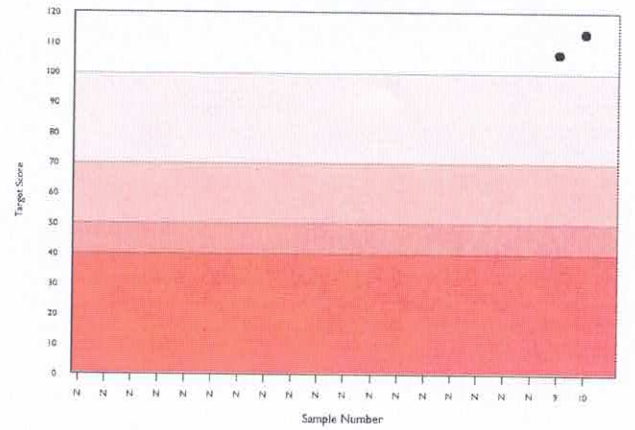
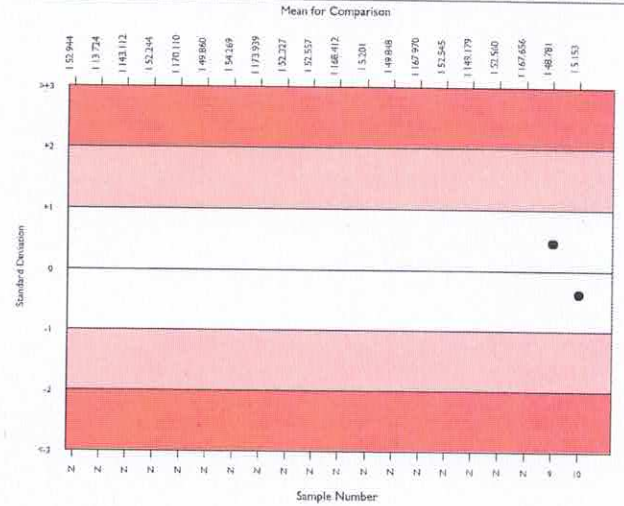
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	3987	5.327	29.8	0.03	0.41	531
Gamma glut'3-carb'4-nitro(IFCC)	2707	5.031	21.9	0.03	0.39	384
Beckman AU instruments	678	5.153	10.2	0.03	0.40	53

▲ Your Result	5.000	SDI	-0.38
		RMSDI	Too Few
■ Mean for Comparison	5.153	TS	113
		RMTS	Too Few
		%DEV	-3.0
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Gamma glut'3-carb'4-nitro(IFCC)	2707	5.031	21.9	0.03
Gamma glut-3-carb-4-nitro.	748	5.085	30.8	0.07
Siemens Dimension	187	9.964	22.0	0.20
Ortho Vitros MicroSlide Systems	80	7.993	26.1	0.29
DCL gamma glut-3-carb-4-nitro.	68	4.973	14.7	0.11
Gamma glutanyl-4-nitroanilide	70	6.221	32.4	0.30
Beckman Szasz (Extinction Coeff.)	38	5.013	9.6	0.10
Agappe - SZASZ KINETIC	28	4.984	19.8	0.23
Other Dry Chemistry	8	3.628	53.6	0.86



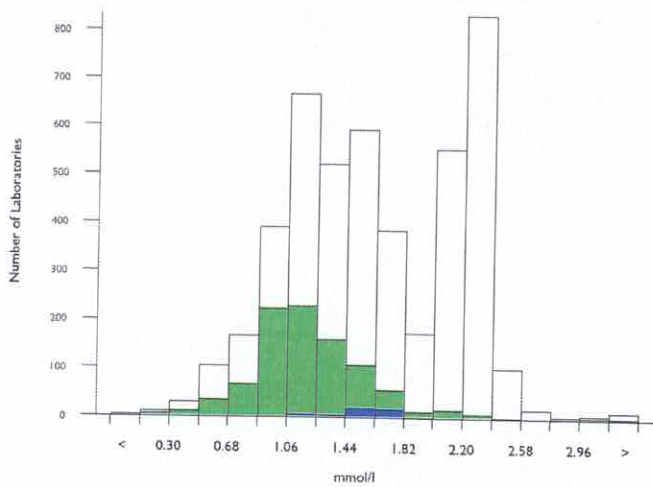


# HDL-Cholesterol, mmol/l

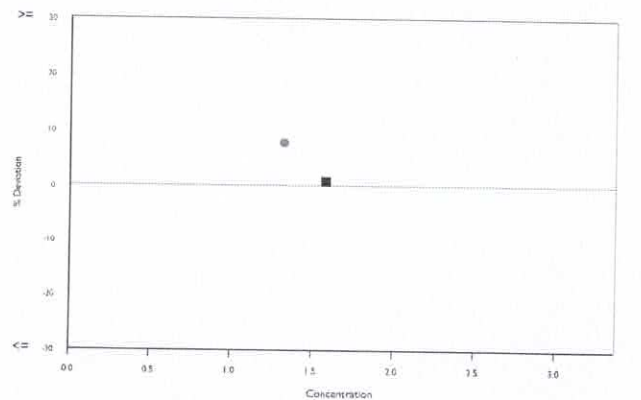
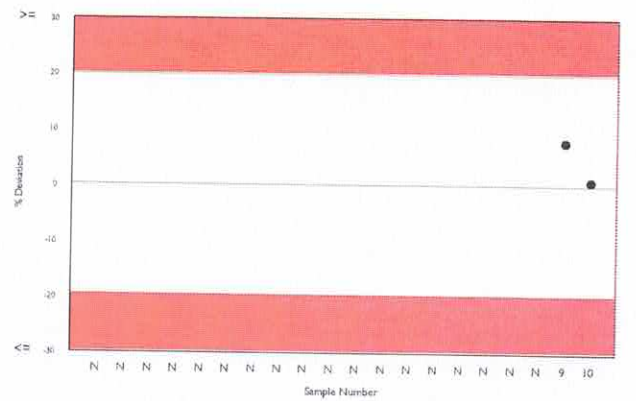
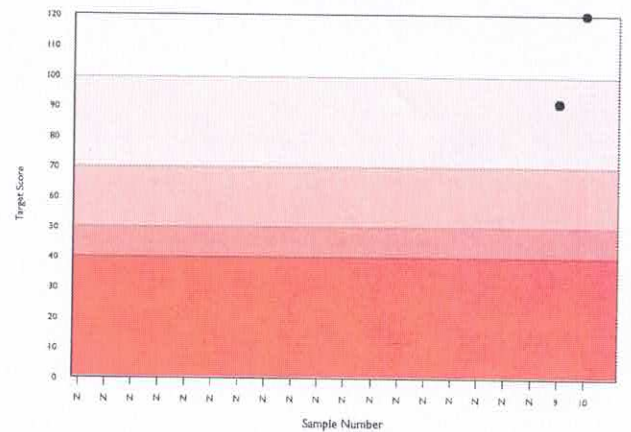
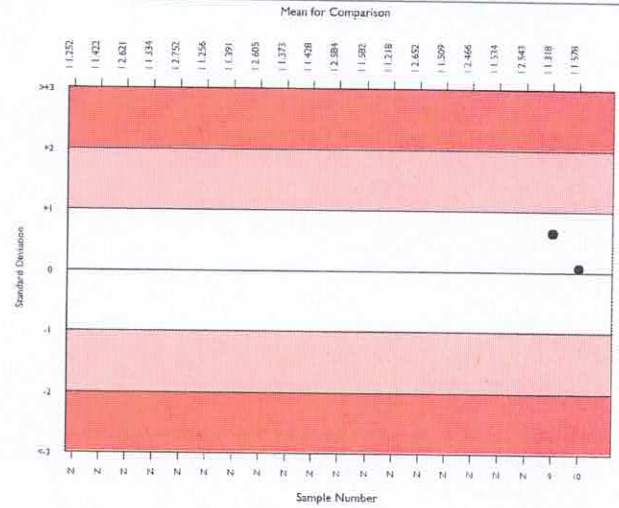
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	4462	1.637	30.9	0.01	0.20	116
Direct HDL, Clearance method	880	1.183	23.6	0.01	0.14	64
Beckman AU instruments	47	1.578	10.0	0.03	0.19	4

▲ Your Result	1.590	SDI	0.06
		RMSDI	Too Few
■ Mean for Comparison	1.578	TS	120
		RMTS	Too Few
		%DEV	0.8
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Direct HDL, Roche 4th gen.	1042	2.237	4.0	0.00
Direct HDL, Immunoseparation	899	1.495	14.4	0.01
Direct HDL, Clearance method	880	1.183	23.6	0.01
Direct HDL, PEGME	475	1.553	43.5	0.04
HDL Ultra/Accel Selective Detergent	394	1.218	10.0	0.01
Direct HDL, PPD	326	1.624	30.0	0.03
Vitros iHDL, PTA/MgCl2 direct precip.	132	1.919	8.4	0.02
Other Dry Chemistry	35	2.109	26.7	0.12
Agappe - SELECTIVE INHIBITION	28	1.931	10.7	0.05
Vitros, Magnetic HDL	16	1.823	9.2	0.05
Vitros 5.1 FS Microtip assay	12	1.928	5.9	0.04

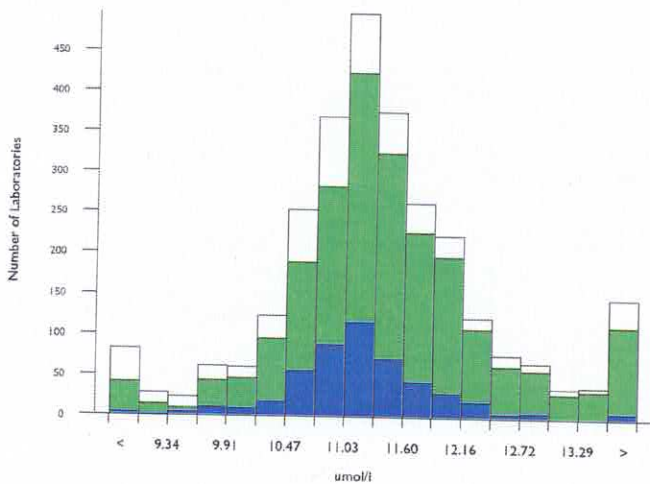


# Iron, umol/l

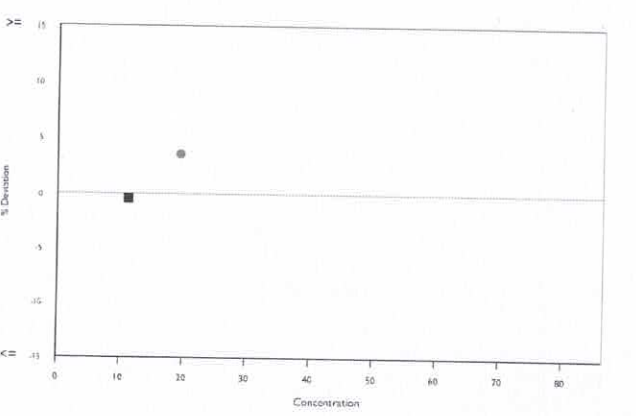
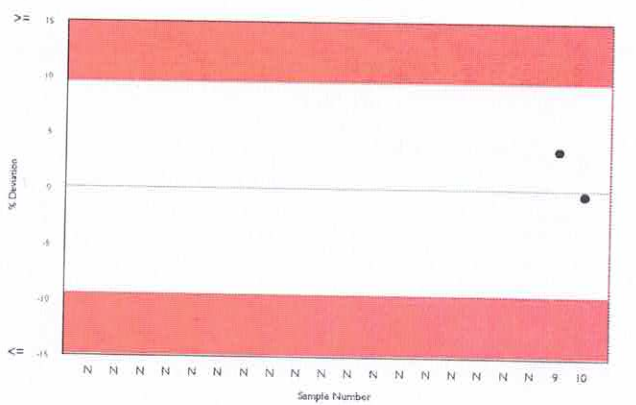
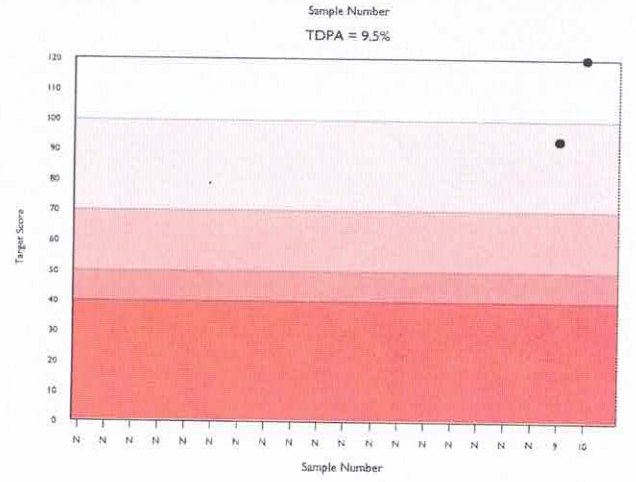
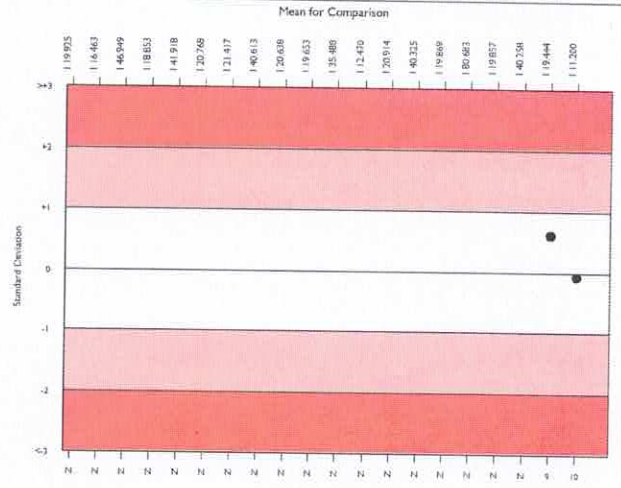
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2575	11.320	6.6	0.02	0.65	266
Colorimetric without ppt.	2082	11.360	6.1	0.02	0.66	212
Beckman AU instruments	452	11.200	4.6	0.03	0.65	42

▲ Your Result	11.150	SDI	-0.08
		RMSDI	Too Few
■ Mean for Comparison	11.200	TS	120
		RMTS	Too Few
		%DEV	-0.4
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Colorimetric without ppt.	2082	11.360	6.1	0.02
Colorimetric with ppt.	322	11.179	5.1	0.04
Ortho Vitros MicroSlide Systems	109	9.528	10.5	0.12
Other method with blank	30	11.492	6.8	0.18
Other method without blank	12	12.079	12.9	0.56
Other Dry Chemistry	7	11.666	9.3	0.51
Agappe - CHROMAZUROL	4	12.676	21.5	1.71

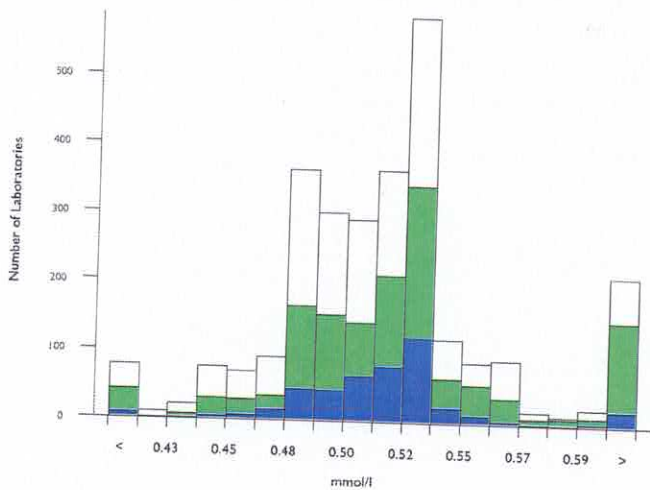


# Magnesium, mmol/l

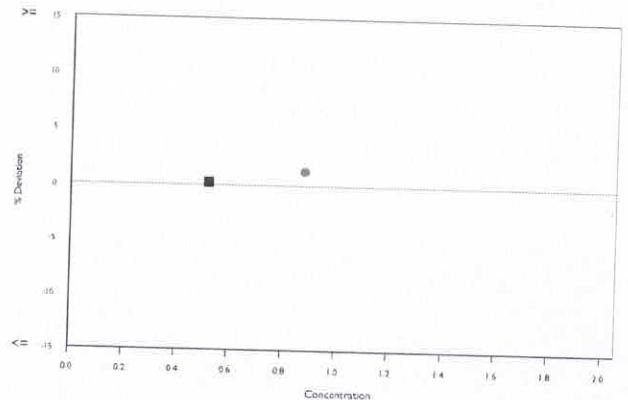
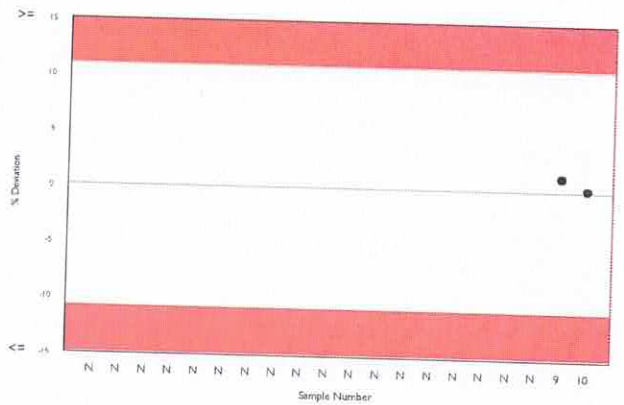
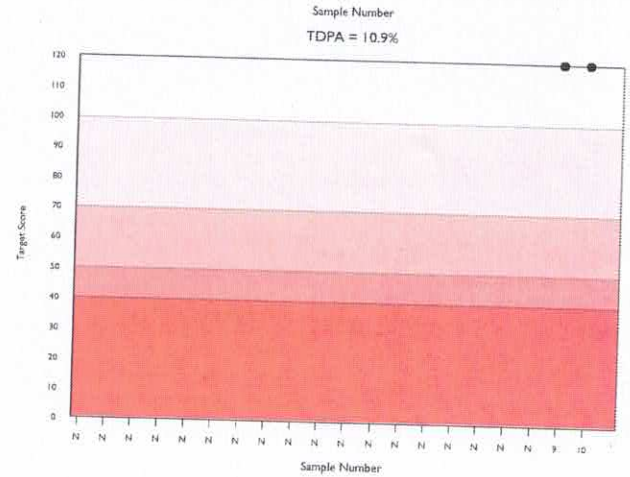
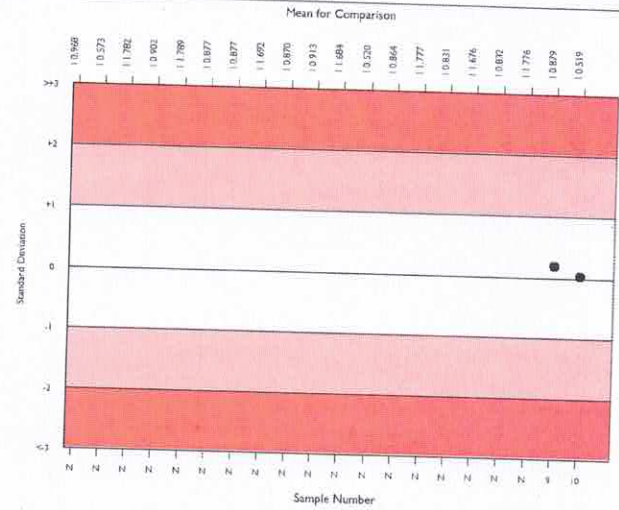
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2552	0.517	6.0	0.00	0.03	264
Xylidyl Blue	1335	0.521	6.2	0.00	0.03	156
Beckman AU instruments	407	0.519	3.7	0.00	0.03	53

▲ Your Result	0.520	SDI	0.03
		RMSDI	Too Few
■ Mean for Comparison	0.519	TS	120
		RMTS	Too Few
		%DEV	0.2
		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 <sub>m</sub>
Xylidyl Blue	1335	0.521	6.2	0.00
Chlorphosphonazo III	323	0.518	4.2	0.00
Methylthymol blue	240	0.501	6.9	0.00
Enzymatic	225	0.514	4.1	0.00
Ortho Vitros MicroSlide Systems	136	0.515	6.2	0.00
Calmagite	119	0.519	7.1	0.00
Arsenazo	81	0.511	4.9	0.00
Atomic absorption	31	0.510	6.4	0.01
Other Dry Chemistry	21	0.520	6.0	0.01
Agappe - XYLIDYL BLUE	9	0.544	14.9	0.03
Other magnesium dyes	5	0.511	8.1	0.02

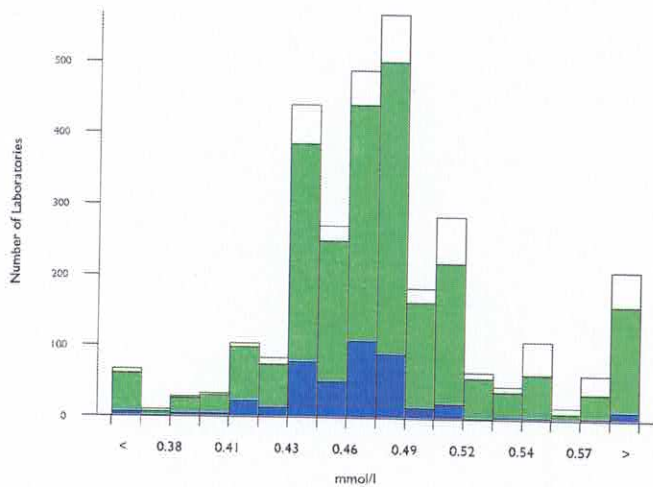


# Phosphate, Inorganic, mmol/l

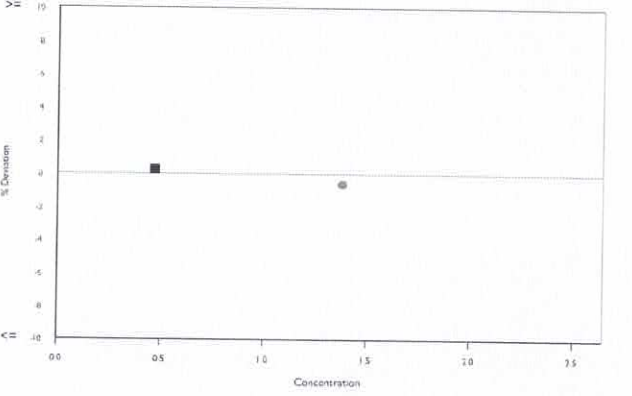
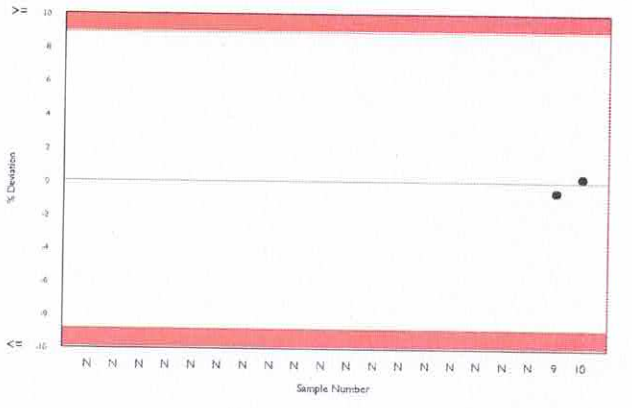
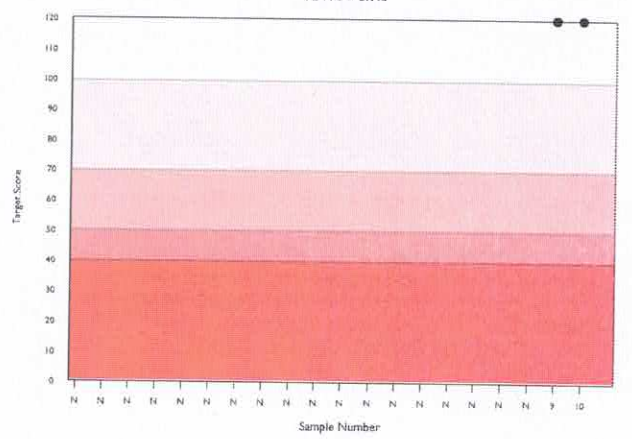
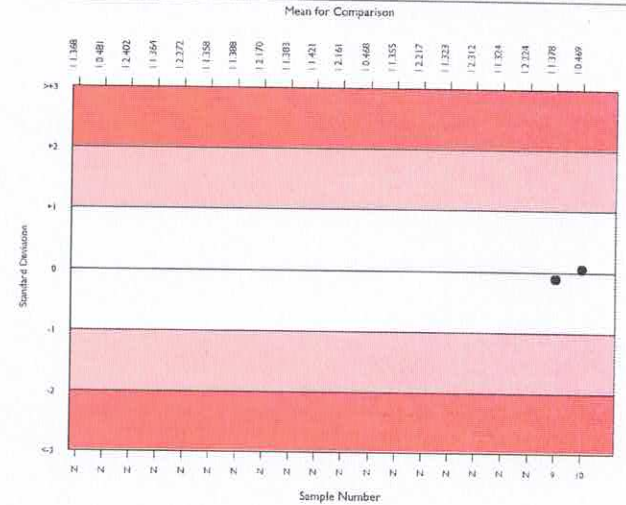
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	2785	0.481	7.6	0.00	0.03	281
Phosphomolybdate UV	2354	0.476	6.8	0.00	0.03	259
Beckman AU instruments	399	0.469	4.8	0.00	0.03	41

▲ Your Result	0.470	SDI RMSDI	0.05 Too Few
■ Mean for Comparison	0.469	TS RMTS	120 Too Few
		%DEV RM%DEV	0.3 Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Phosphomolybdate UV	2354	0.476	6.8	0.00
Phosphomolybdate enzymatic	197	0.477	5.9	0.00
Ortho Vitros MicroSlide Systems	131	0.552	6.3	0.00
Beckman PHOSm kit (365nm)	34	0.473	5.2	0.01
Other Dry Chemistry	15	0.511	4.6	0.01
Agappe - PHOSPHOMOLYBDATE	9	0.525	4.2	0.01
Other methods, no protein ppt	10	0.526	21.7	0.05
Vitros, DT60/DT60 II/DTSC II	4	0.541	10.6	0.04
Other methods, with protein ppt	3	0.508	12.9	0.05

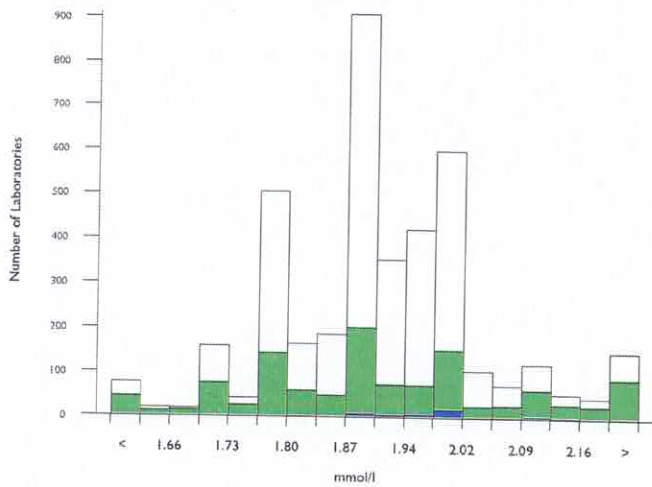


# Potassium, mmol/l

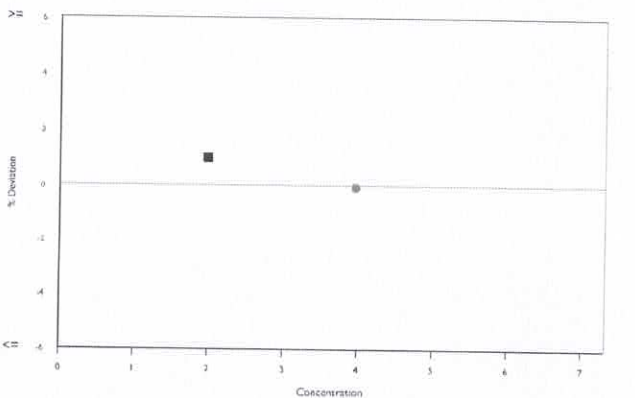
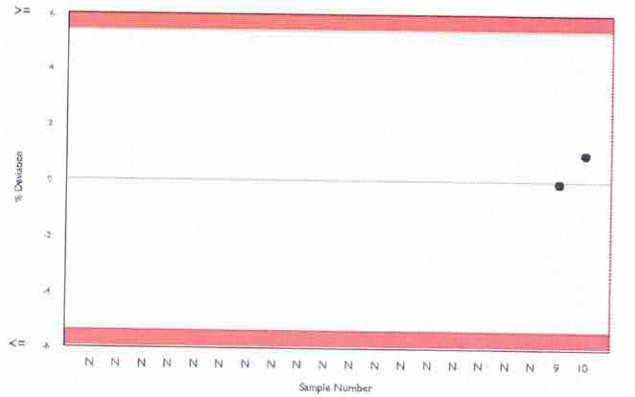
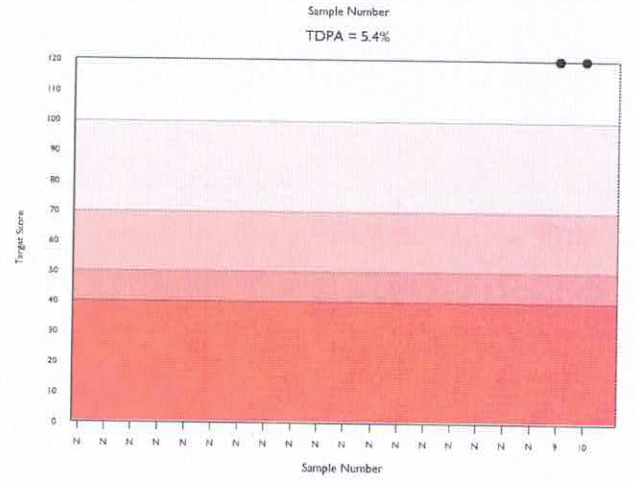
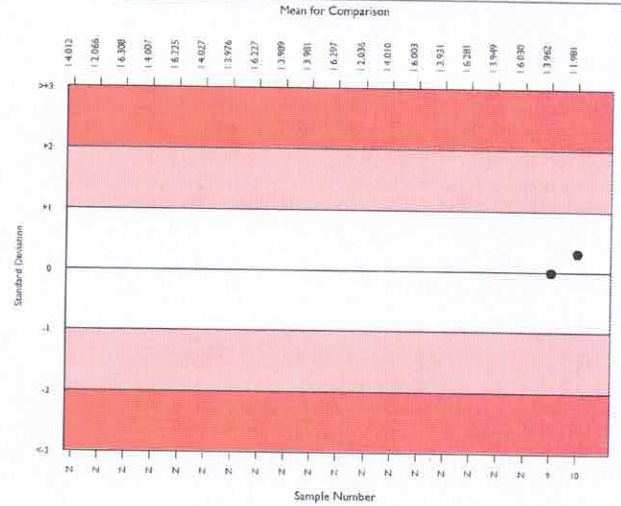
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	3698	1.914	5.0	0.00	0.06	314
ISE method - direct	1098	1.914	7.2	0.01	0.06	96
Beckman AU instruments	45	1.981	2.9	0.01	0.07	4

▲ Your Result	2.000	SDI	0.30
		RMSDI	Too Few
■ Mean for Comparison	1.981	TS	120
		RMTS	Too Few
		%DEV	1.0
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
ISE method - indirect	2361	1.923	4.0	0.00
ISE method - direct	1098	1.914	7.2	0.01
Ortho Vitros MicroSlide Systems	139	1.884	2.8	0.01
Colorimetric	48	1.832	11.5	0.04
Other Dry Chemistry	20	1.760	2.9	0.01
Flame photometry	20	1.946	3.8	0.02
Enzymatic	12	1.928	18.8	0.13
Optical Fluorescence	10	1.668	5.4	0.04
Turbidimetric	4	1.985	3.1	0.04
Vitros, DT60/DT60 II/DTE II	4	1.850	5.4	0.06
Agappe - ISE DIRECT	3	2.530	22.0	0.40

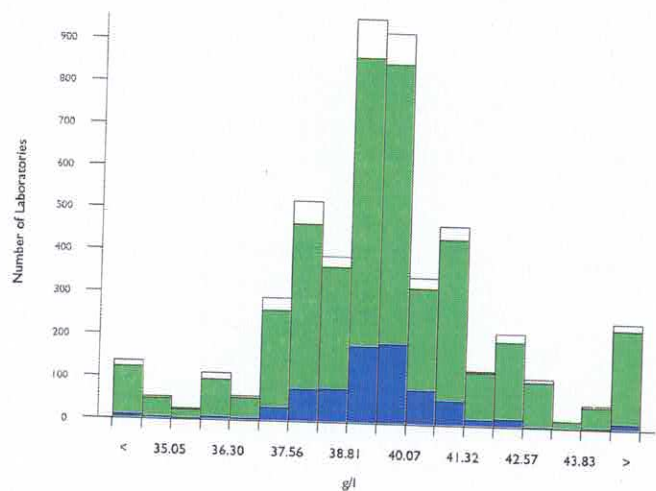


# Protein, Total, g/l

	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
☐ All Methods	4672	39.444	4.2	0.03	2.01	390
■ Biuret reaction, end point	4283	39.470	4.2	0.03	2.02	361
■ Beckman AU instruments	739	39.429	2.9	0.05	2.01	50

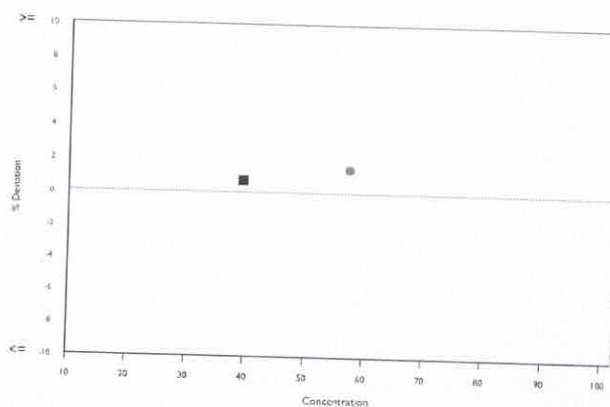
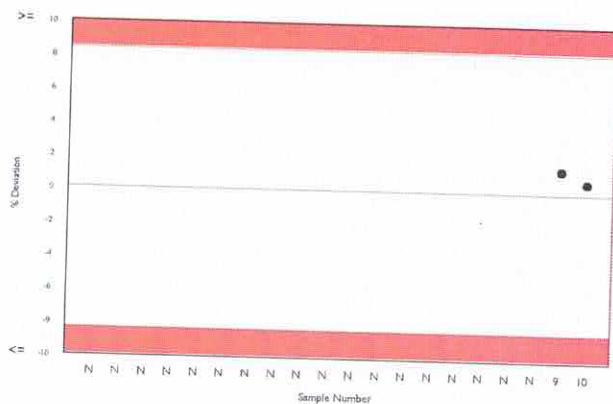
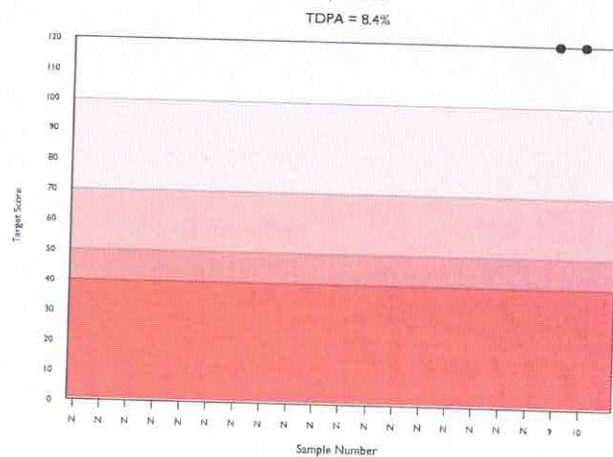
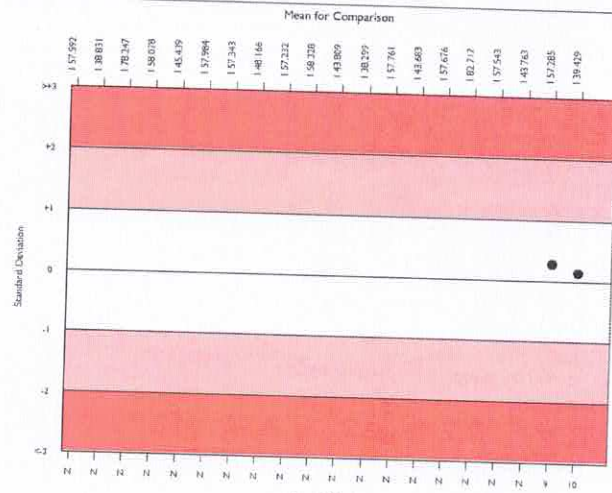
▲ Your Result	39.700	SDI	0.13
		RMSDI	Too Few
■ Mean for Comparison	39.429	TS	120
		RMTS	Too Few
		%DEV	0.7
		RM%DEV	Too Few

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



**Method**

Method	N	Mean	CV%	U <sub>m</sub>
Biuret reaction, end point	4283	39.470	4.2	0.03
Ortho Vitros MicroSlide Systems	158	39.192	3.6	0.14
Biuret reaction, kinetic	122	39.199	3.7	0.16
Biuret reaction, CX4/5/7	38	38.669	3.4	0.27
Agappe - BIURET	32	38.719	5.7	0.48
Other Dry Chemistry	24	39.436	5.1	0.52
Vitros. DT60/DT60 II	2	40.500	5.2	1.87

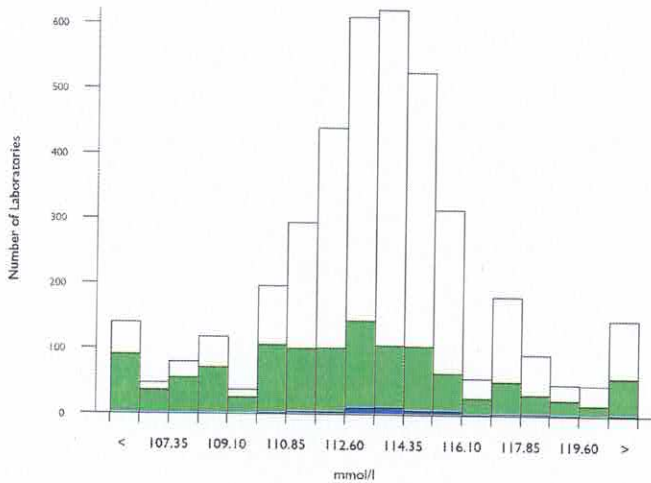


# Sodium, mmol/l

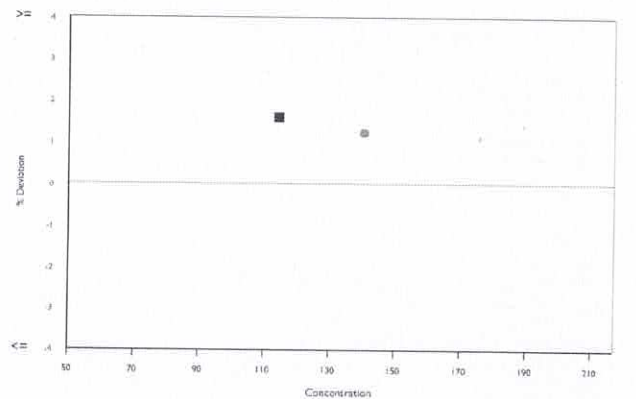
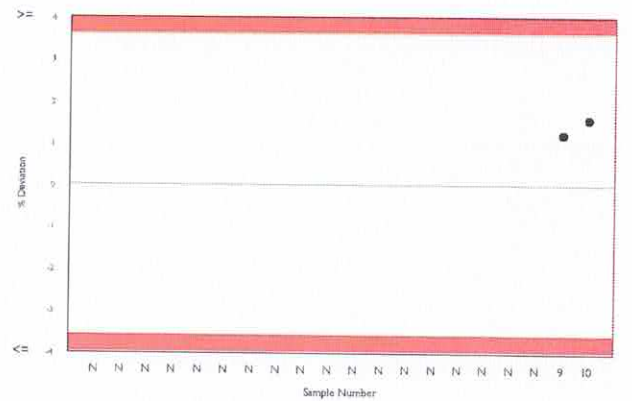
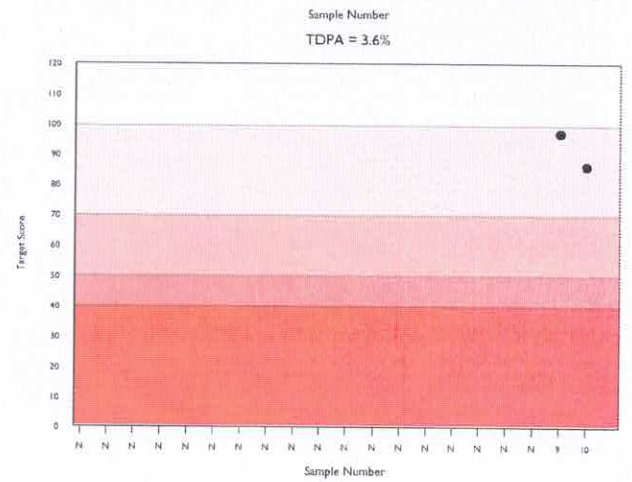
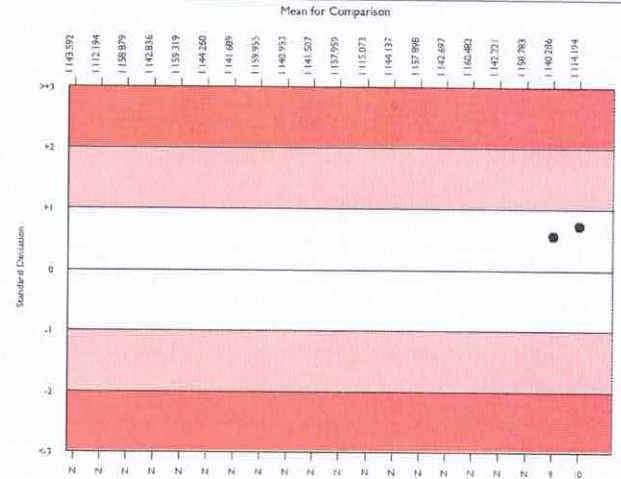
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	3600	113.476	2.1	0.05	2.48	380
ISE method - direct	1105	112.468	3.0	0.13	2.46	93
Beckman AU instruments	50	114.194	1.5	0.31	2.50	5

▲ Your Result	116.000	SDI	0.72
		RMSDI	Too Few
■ Mean for Comparison	114.194	TS	86
		RMTS	Too Few
		%DEV	1.6
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
ISE method - indirect	2319	113.826	1.6	0.05
ISE method - direct	1105	112.468	3.0	0.13
Ortho Vitros MicroSlide Systems	130	112.980	1.7	0.21
Colorimetric	44	121.575	6.8	1.56
Flame photometry	23	115.265	4.1	1.23
Other Dry Chemistry	20	112.715	1.6	0.49
Enzymatic	9	123.753	12.5	6.43
Optical Fluorescence	8	105.585	2.4	1.14
Vitros, DT60/DT60 II/DTE II	5	109.900	1.7	1.05

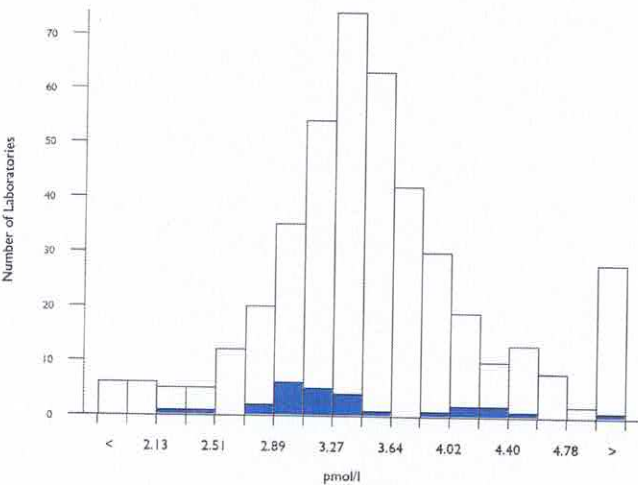


# Free T3, pmol/l

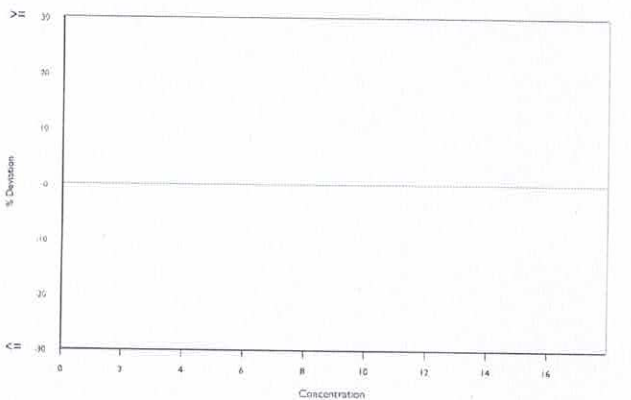
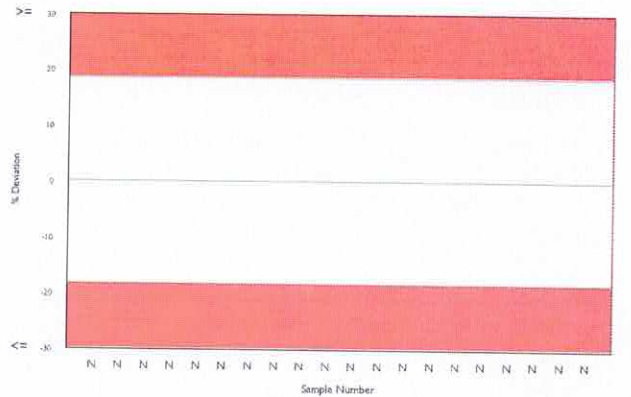
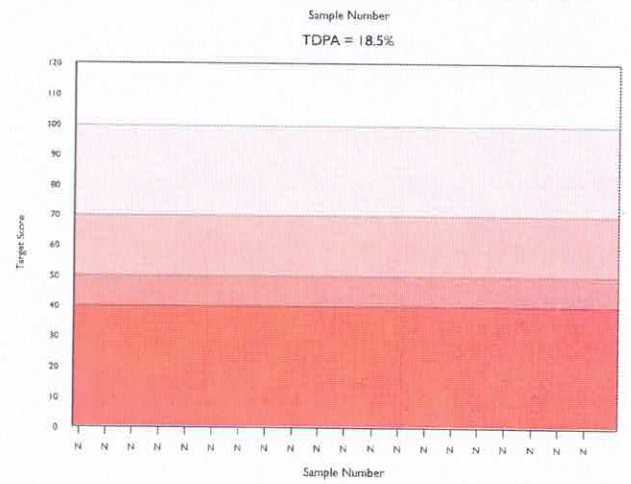
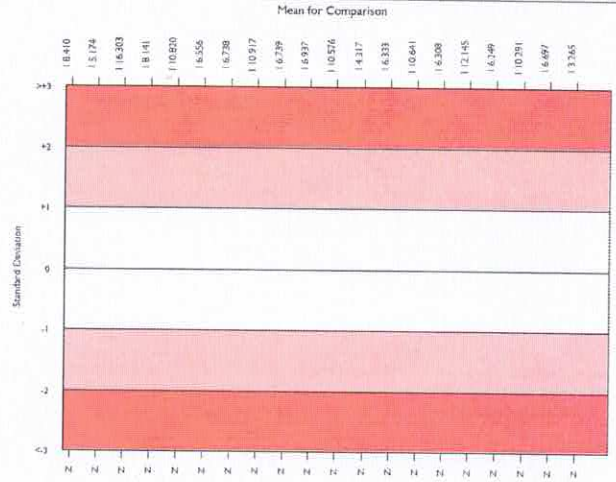
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	392	3.460	14.6	0.03	0.39	42
Beckman Access/LXi725	25	3.265	16.7	0.14	0.39a	2
Beckman Access Series	25	3.265	16.7	0.14	0.39a	2

▲ Your Result	No Result	SDI	RMSDI	Too Few
■ Mean for Comparison	3.265	TS	RMTS	Too Few
		%DEV	RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	18.50%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 4000/e411	80	3.670	11.1	0.06
Roche Cobas e601/602	54	3.470	6.1	0.04
Abbott Architect/ Alinity, 2 point cal	41	3.217	9.9	0.06
BioMerieux VIDAS	44	3.342	16.2	0.10
Beckman Access/LXi725	25	3.265	16.7	0.14
Siemens Centaur XP/XPT/Classic	21	3.681	8.4	0.08
Tosoh AIA Series	20	3.140	22.2	0.20
Abbott Architect/ Alinity, 6 point cal	15	3.097	6.2	0.06
Siemens Dimension Exl LOCI	12	3.396	5.1	0.06
Ortho Vitros 3600/5600/ECI/XT 7600	11	5.688	5.2	0.11
Siemens Centaur CP	7	3.934	3.1	0.06
Roche Elecsys	8	4.005	6.2	0.11
Beckman Dxl 600/800	8	3.093	6.9	0.09
SNIBE Maglum analysers	9	4.023	22.6	0.38
Siemens/DPC Immulite 2000/2500	5	1.951	19.2	0.21
Roche Cobas e801	8	3.435	5.9	0.09
ELISA	5	3.756	19.8	0.41
Mindray CL-Series	5	3.533	10.5	0.21
Siemens/DPC Immulite 1000	4	2.188	29.1	0.40
DiaSorin, Liaison	2	3.840	4.0	0.13
DiaSorin Liaison XL	2	3.198	3.5	0.10

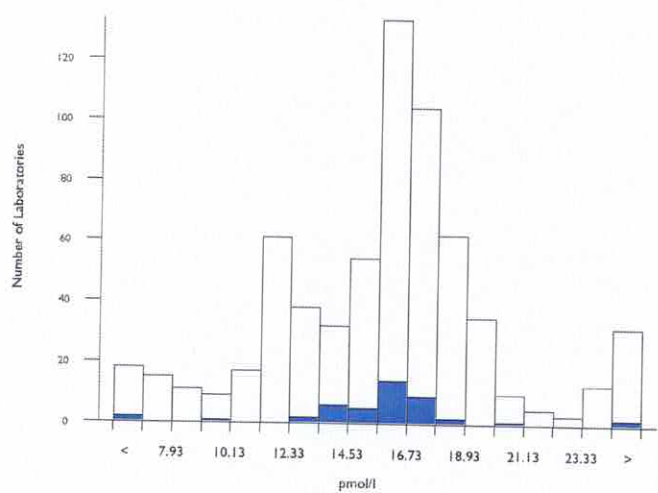


# Free T4, pmol/l

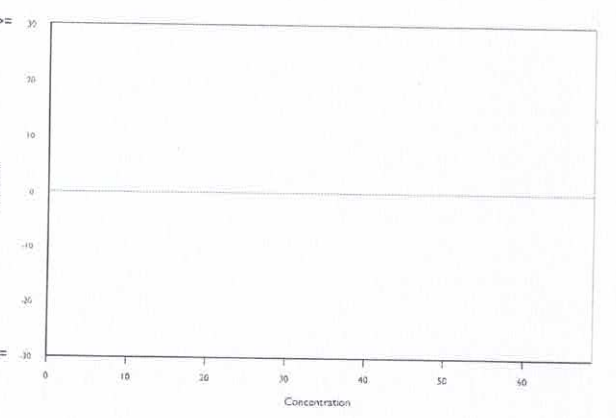
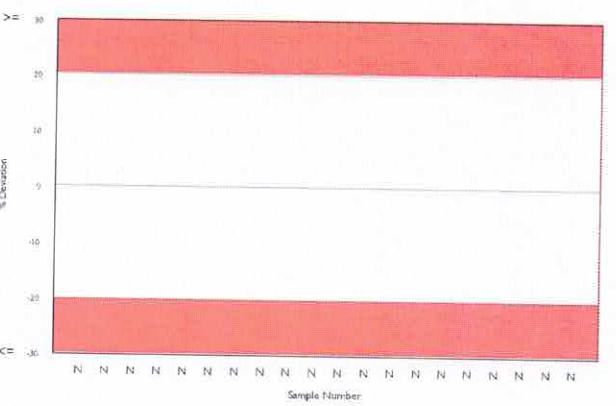
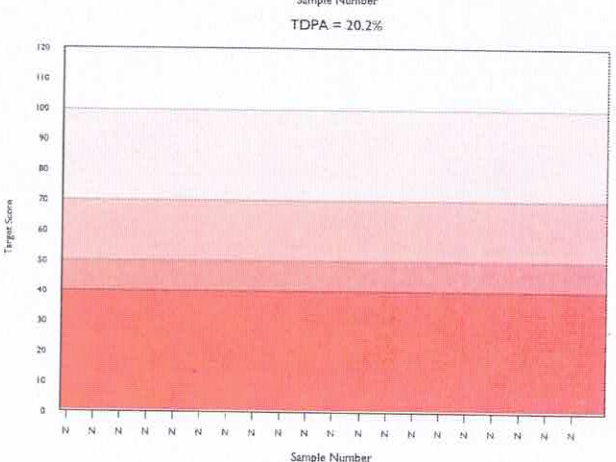
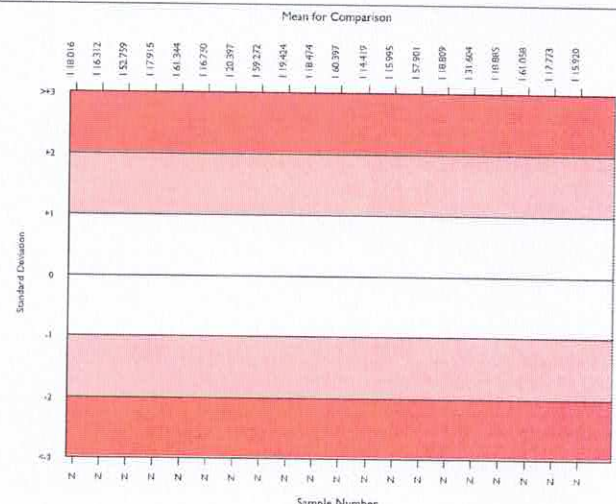
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	584	15.635	18.8	0.15	1.92	68
Beckman Access/LXi725	35	15.920	6.5	0.22	1.96	9
Beckman Access Series	35	15.920	6.5	0.22	1.96	9

▲ Your Result	No Result	SDI	RMST	Too Few
		RMSDI		
■ Mean for Comparison	15.920	TS	RMST	Too Few
		%DEV	RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 4000/e411	105	16.660	6.4	0.13
Abbott Architect/ Alinity	72	11.860	4.6	0.08
Roche Cobas e601/ 602	71	16.225	4.5	0.11
bioMerieux, VIDAS-FT4N Kit	52	17.083	7.6	0.23
Beckman Access/LXi725	35	15.920	6.5	0.22
Monobind Inc ELISA / CLIA	36	8.170	25.5	0.43
Tosoh AIA Series	26	18.534	16.6	0.75
Siemens Centaur XP/XPT/Classic	23	13.503	8.1	0.29
ELISA	20	9.108	21.0	0.53
SNIBE Maglumi analysers	22	19.733	14.9	0.78
Ortho Vitros 3600/5600/ECI/XT/7600	19	26.551	6.6	0.50
Siemens/DPC Immulite 1000	16	19.088	9.5	0.57
Roche Elecsys	14	17.085	9.2	0.52
Siemens Dimension Exl LOCI	11	17.877	3.3	0.22
Beckman Dxl 600/800	13	16.625	5.9	0.34
Siemens/DPC Immulite 2000/2500	9	18.892	2.7	0.21
Siemens Centaur CP	8	15.052	5.6	0.37
Roche Cobas e801	8	16.781	3.8	0.28
Mindray CL-Series	8	11.945	9.2	0.48
Siemens Atellica IM	3	14.269	4.6	0.48
Perkin Elmer DELFIA	2	22.371	8.5	1.68

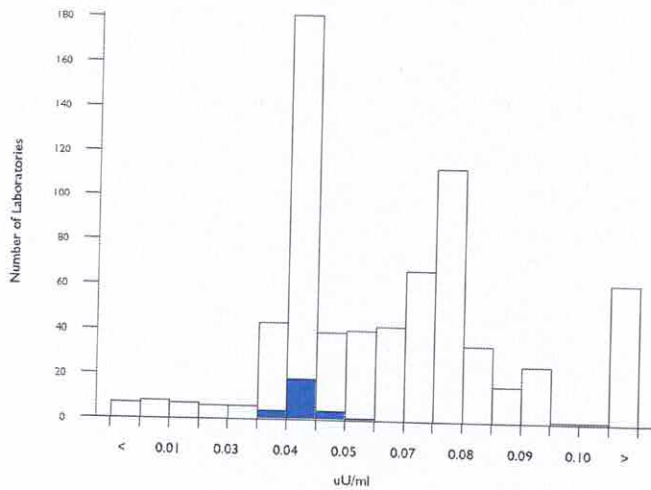


# TSH, uU/ml

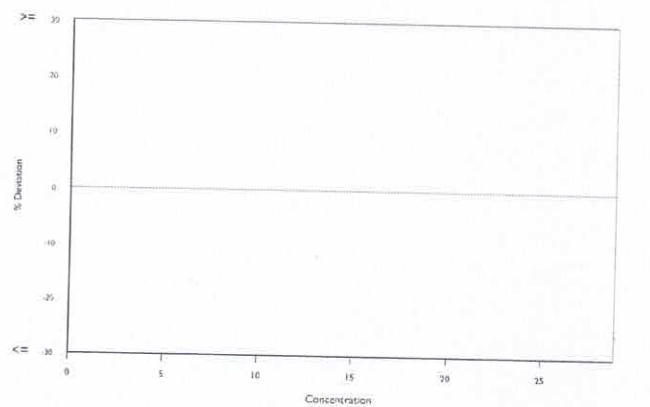
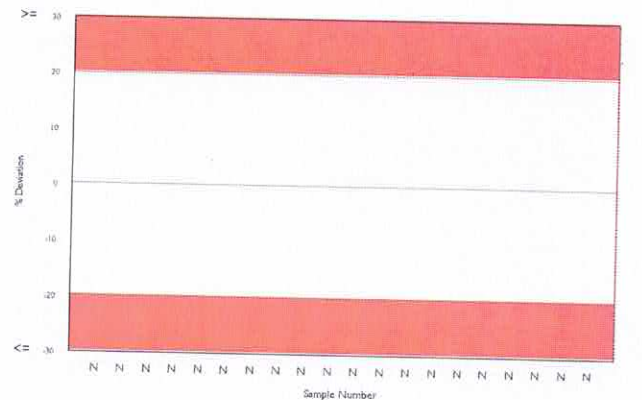
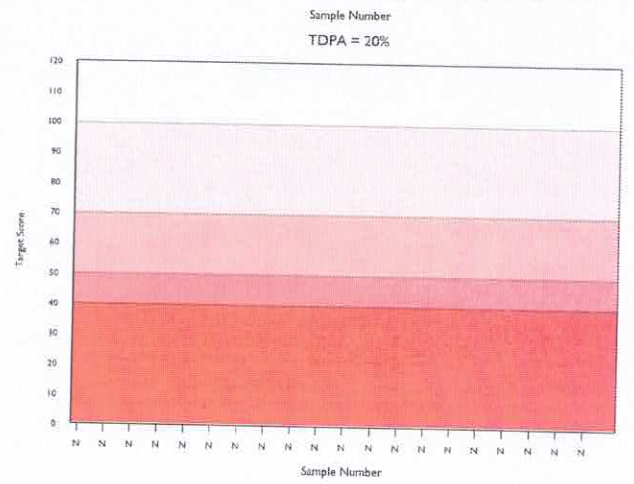
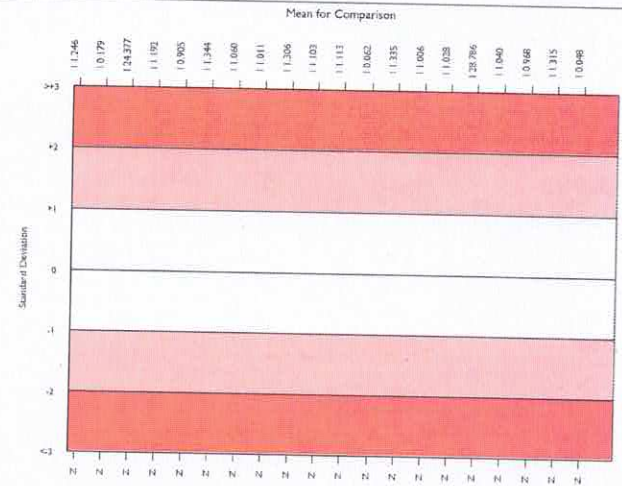
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	612	0.064	26.4	0.00	0.01	116
Beckman Access/LXi725 hyper TSH 3rd gen.	25	0.048	7.9	0.00	0.01	2
Beckman Access Series	25	0.048	7.9	0.00	0.01	2

▲ Your Result	No Result	SDI	RMST	Too Few
		RMSDI		
■ Mean for Comparison	0.048	TS	RM%DEV	Too Few

Acceptable limits derived from Biological Variation	N/A
Acceptable limits of performance for RIQAS	20.00%



Method	N	Mean	CV%	U <sub>m</sub>
Roche Cobas 4000/e411	115	0.077	7.7	0.00
Abbott Architect/ Alinity	88	0.049	5.1	0.00
Roche Cobas e601/ 602	69	0.079	3.9	0.00
Biomérieux VIDAS TSH	25	0.052	31.3	0.00
Monobind Inc ELISA / CLIA	21	0.075	31.9	0.01
ELISA	29	0.120	39.1	0.01
Tosoh AIA Series	23	0.054	18.9	0.00
SNIBE Maglumi analysers	26	0.063	24.3	0.00
Beckman Access/LXi725 hyper TSH 3rd gen.	25	0.048	7.9	0.00
Ortho Vitros 3600/5600/ECII/XT 7600	8	0.016	10.7	0.00
Siemens/DPC Immulite 1000	16	0.049	28.2	0.00
Beckman DXI600/800/ Access 2 (3rd IS)	17	0.046	8.9	0.00
Roche Elecsys	17	0.075	7.0	0.00
Beckman Access/LXi725 Fast TSH 2nd gen.	14	0.048	5.0	0.00
Siemens Centaur XP/XPT/Classic	12	0.062	23.3	0.01
Siemens Dimension Exl LOCI	13	0.048	9.0	0.00
bioMérieux, VIDAS TSH3 Ultrasensitive	8	0.039	29.3	0.00
Siemens/DPC Immulite 2000/2500	10	0.045	29.5	0.01
Siemens Centaur XP/XPT/ClassicTSH3-Ultra	9	0.057	4.2	0.00
Roche Cobas e801	9	0.070	6.0	0.00
Siemens Centaur CP	7	0.077	28.3	0.01

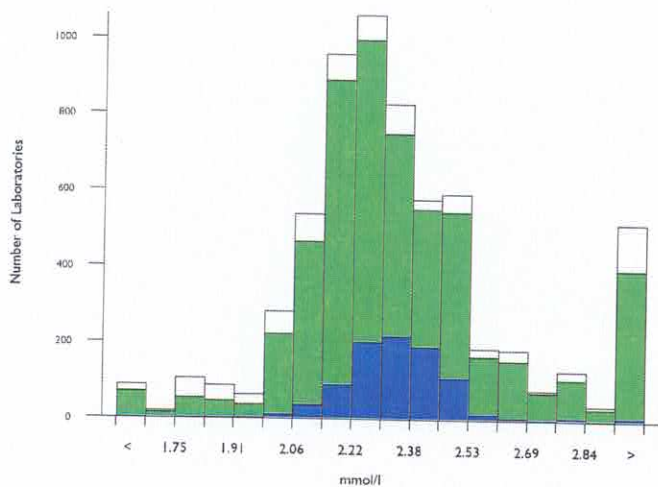


# Urea, mmol/l

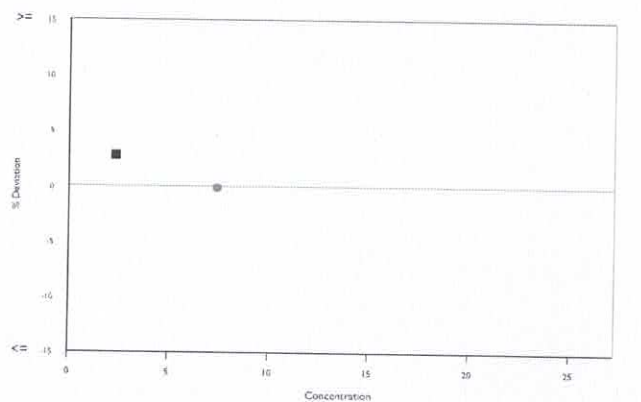
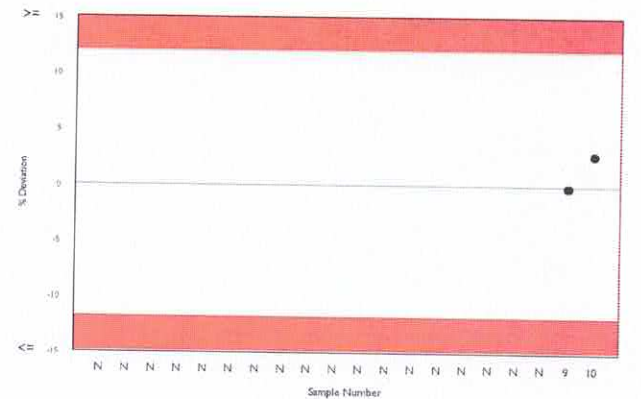
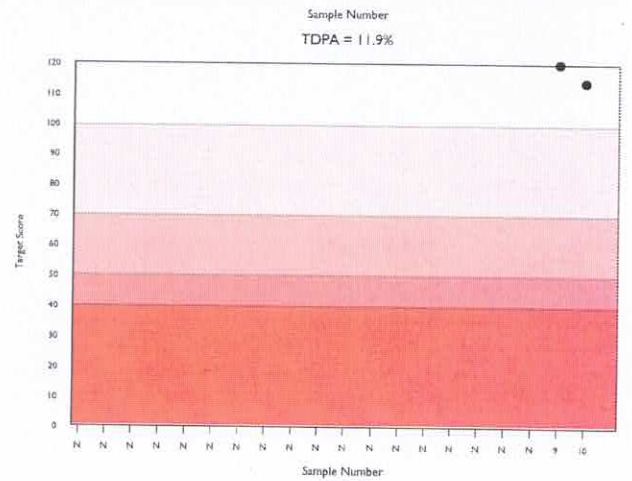
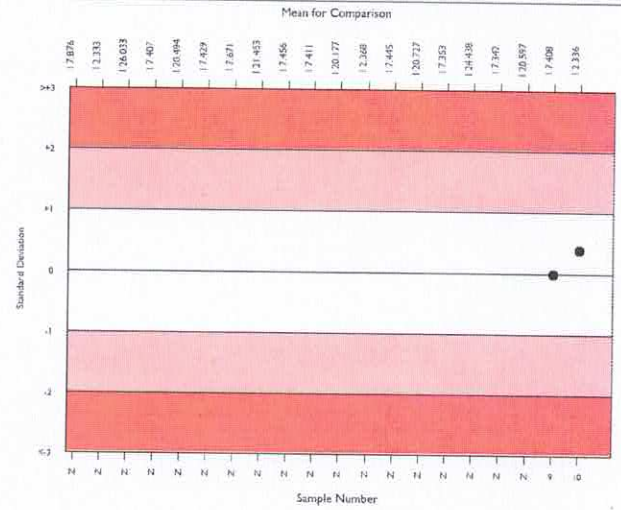
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5723	2.302	9.0	0.00	0.17	594
Urease, kinetic	5074	2.311	8.3	0.00	0.17	482
Beckman AU instruments	853	2.336	4.4	0.00	0.17	52

▲ Your Result	2.400	SDI	0.38
		RMSDI	Too Few
■ Mean for Comparison	2.336	TS	114
		RMTS	Too Few
		%DEV	2.8
		RM%DEV	Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Urease, kinetic	5074	2.311	8.3	0.00
Urease, end point	305	2.373	13.6	0.02
Ortho Vitros MicroSlide Systems	171	1.947	6.6	0.01
Urease, hypochlorite	104	2.848	26.1	0.09
Agappe - UREASE GLDH	37	2.325	12.0	0.06
Beckman - Conductivity	26	2.379	6.1	0.04
Other Dry Chemistry	23	2.106	8.0	0.04
Agappe - BERTHELOT	5	2.433	7.0	0.10
Diacetyl monoxime	4	2.176	11.5	0.16
O-Phthalaldehyde	4	2.262	28.2	0.40
Vitros DT60/DT60 II	2	1.938	4.5	0.08

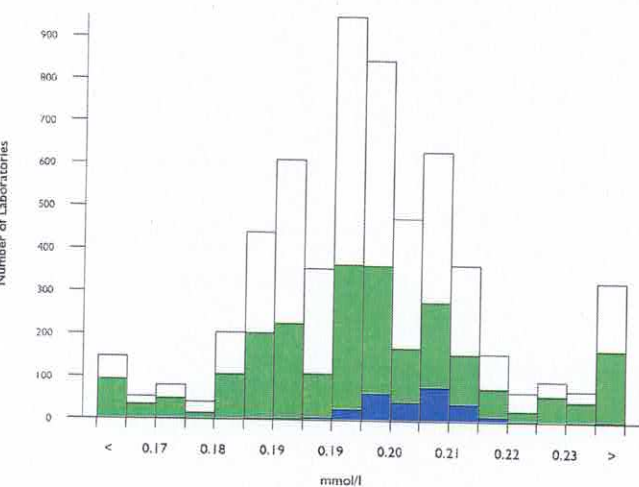


# Uric Acid (Urate), mmol/l

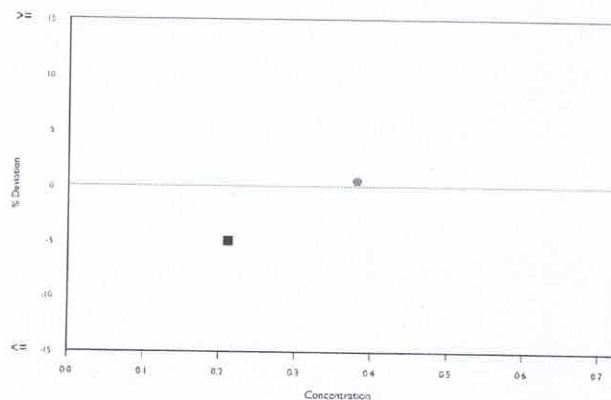
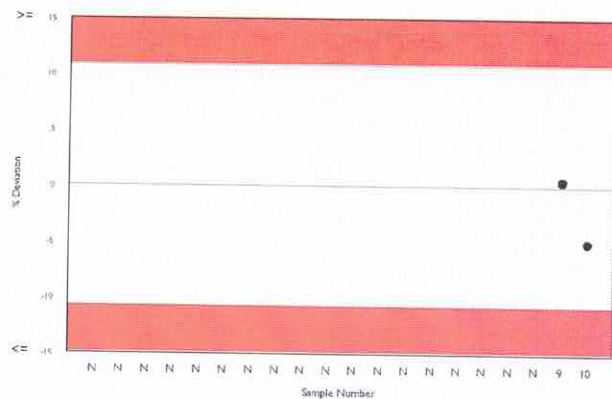
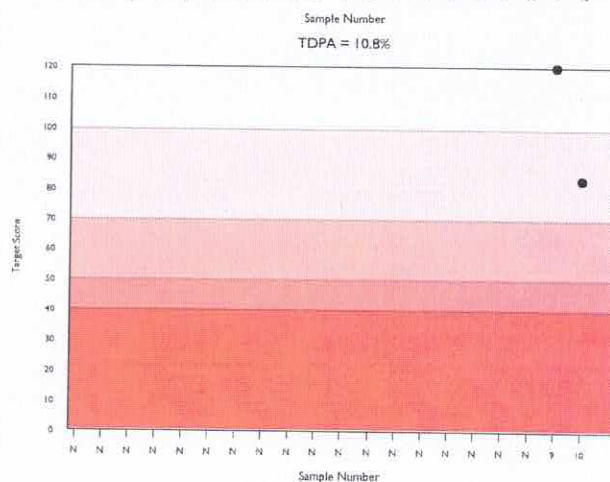
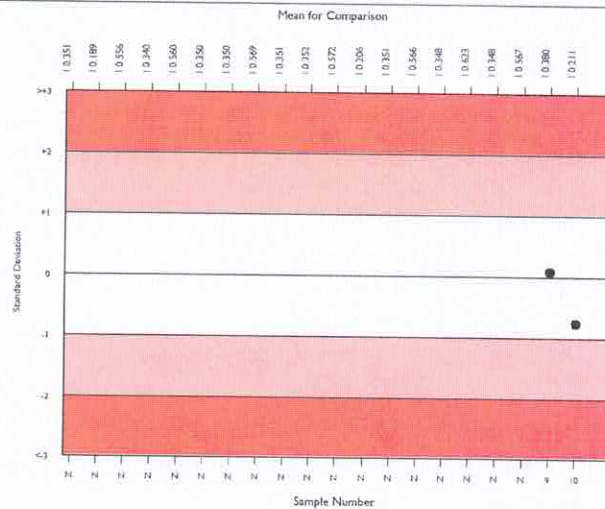
	N	Mean	CV%	U <sub>m</sub>	SDPA	Exc.
All Methods	5317	0.204	5.5	0.00	0.01	590
Uricase perox. no ascorb. ox.	2296	0.204	6.6	0.00	0.01	244
Beckman AU instruments	260	0.211	2.6	0.00	0.01	30

▲ Your Result	0.200	SDI RMSDI	-0.76 Too Few
■ Mean for Comparison	0.211	TS RMTS	83 Too Few
		%DEV RM%DEV	-5.0 Too Few

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



Method	N	Mean	CV%	U <sub>m</sub>
Uricase perox. no ascorb. ox.	2296	0.204	6.6	0.00
Uricase Perox. with ascorb. ox	1597	0.207	4.8	0.00
Uricase Perox. with ascorb. ox @ 546nm	936	0.201	4.6	0.00
Ortho Vitros MicroSlide Systems	160	0.194	3.3	0.00
Uricase @ 293 nm	155	0.201	2.7	0.00
Uricase, catalase 340nm.	122	0.202	3.6	0.00
Other Dry Chemistry	24	0.223	6.3	0.00
Agappe - URICASE - TOPS	19	0.212	12.0	0.01
Agappe - URICASE - PAP	19	0.206	12.6	0.01
Reduction methods	16	0.204	11.2	0.01
Vitros DT60/DT60 II	4	0.192	2.1	0.00



Analyte	Mean for Comparison	Your Result	SDI	RMSDI	%DEV	RM%DEV	TS	RMTS	Performance
Albumin	21.250	21.200	-0.04	Too Few	-0.2	Too Few	120	Too Few	
Alkaline Phosphatase	17.891	17.000	-0.44	Too Few	-5.0	Too Few	107	Too Few	
ALT (GPT)	11.333	11.200	-0.13	Too Few	-1.2	Too Few	120	Too Few	
Amylase, Pancreatic	6.500	No Result		Too Few		Too Few		Too Few	
AST (GOT)	16.535	12.800	-2.11	Too Few	-22.6	Too Few	31	Too Few	▲
Bicarbonate	8.401	8.000	-0.43	Too Few	-4.8	Too Few	106	Too Few	
Bilirubin, Direct	6.038	6.200	0.18	Too Few	2.7	Too Few	120	Too Few	
Bilirubin, Total	15.897	15.200	-0.46	Too Few	-4.4	Too Few	106	Too Few	
Calcium	1.515	1.510	-0.07	Too Few	-0.3	Too Few	120	Too Few	
Chloride	82.189	83.000	0.35	Too Few	1.0	Too Few	117	Too Few	
Cholesterol	3.099	3.050	-0.29	Too Few	-1.6	Too Few	120	Too Few	
CK, Total	94.415	100.000	0.81	Too Few	5.9	Too Few	81	Too Few	
Creatinine	70.138	72.900	0.52	Too Few	3.9	Too Few	100	Too Few	
EGFR (Pilot)	123.499	No Result		Too Few		Too Few	N/A	N/A	
GGT	5.153	5.000	-0.38	Too Few	-3.0	Too Few	113	Too Few	
Glucose	2.277	2.260	-0.15	Too Few	-0.7	Too Few	120	Too Few	
HDL-Cholesterol	1.578	1.590	0.06	Too Few	0.8	Too Few	120	Too Few	
Iron	11.200	11.150	-0.08	Too Few	-0.4	Too Few	120	Too Few	
Magnesium	0.519	0.520	0.03	Too Few	0.2	Too Few	120	Too Few	
Phosphate, Inorganic	0.469	0.470	0.05	Too Few	0.3	Too Few	120	Too Few	
Potassium	1.981	2.000	0.30	Too Few	1.0	Too Few	120	Too Few	
Protein, Total	39.429	39.700	0.13	Too Few	0.7	Too Few	120	Too Few	
Sodium	114.194	116.000	0.72	Too Few	1.6	Too Few	86	Too Few	
Free T3	3.265	No Result		Too Few		Too Few		Too Few	
Free T4	15.920	No Result		Too Few		Too Few		Too Few	
TSH	0.048	No Result		Too Few		Too Few		Too Few	
Urea	2.336	2.400	0.38	Too Few	2.8	Too Few	114	Too Few	
Uric Acid (Urate)	0.211	0.200	-0.76	Too Few	-5.0	Too Few	83	Too Few	

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

END OF REPORT

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Patient Report

Proteus Laboratories

Age Month Serum

S.ID SAMPLE 10 CYCLE 17B

Device No. 2121907

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Test	Result	Reference Range	Units	Flags	Test	Result	Reference Range	Units	Flags
Na	116	136	mmol/L	L,K	K	2.00	3.50	5.10	L,K
Cl	83	97	mmol/L	L	CO2	8	22	30	L,K
UREA	2.4	2.5	mmol/L	L	TP	39.7	60.0	82.0	L
TBIL	15.2	2.0	umol/L	L	DBIL	6.2	0.0	8.0	L
ALP	17	40	IU/L	L	GGT	5.0	5.0	50.0	
AST	12.8	10.0	IU/L	L	ALT	11.2	10.0	40.0	
CHOL	3.05	3.00	mmol/L	L	TG	0.20	0.00	1.70	
HDL	1.59	1.00	mmol/L	L	LDL	1.02	0.00	3.00	
GLUC	2.26	3.50	mmol/L	L	URIC	0.200	0.140	0.450	
CA	1.51	2.10	mmol/L	L,K	MG	0.52	0.70	1.05	L
PHOS	0.47	0.80	mmol/L	L,K	CRP	0.74	0.00	10.00	
CK	100	99999999	IU/L	L	LIP	N			
ICT	N				HEM	N			
ALB	21.2	9999999.9	g/L		FE	11.15	5.00	40.00	
TRF	13.67	22.61	umol/L	L	RF		99999.99	99999.99	G
Crea-E	72.9	9999999.9	umol/L	L	HB		99999.999	99999.999	/
SYPH		9999999.9	U	G	Anion	25	5	15	H,J

*No Intact cimetidin. must calculate SPI*

*Φ*

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S.No. P001-S

Patient Report

Device No. 2121907  
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Proteus Laboratories

Patient Name

Age Month Serum

Doctor/Ward

S.ID SAMPLE 10 CYCLE 17B

Test	Result	Reference Range	Units	Flags	Test	Result	Reference Range	Units	Flags
Amy	14	-9999999	9999999 U/L	n , , ,					