

LABQUALITY

External Quality Assessment Scheme

General Clinical Chemistry, Serum A Round 1, 2023

Specimen

Please find enclosed lyophilized human serum sample 1 ST-JAN-23.

Caution

Quality control specimens derived from human blood must be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases. The specimens are found to be HBsAg, HCVAb and HIVAgAb negative when tested with licensed reagents, but no known test method can offer complete assurance that the specimens will not transmit these or other infectious diseases.

Examinations

Please see page 2.

Storage and use

The unopened lyophilized serum A (1 ST-JAN-23) can be stored in a refrigerator at +2 - +8 °C. Open the vial carefully to prevent escape of dried material. Add 5 mL of high-grade room temperature laboratory water and immediately close the vial and let stand, protected from light, for about half an hour until all the material is completely dissolved. Invert the vial several times in order to dissolve any material adhering to the stopper. The reconstituted sample can be stored 7 days at +2 - +8 °C.

After all the serum has dissolved take samples for bilirubin, ionized calcium (Ca-ion), alkaline phosphatase (ALP) and creatine phosphokinase (CK). Place the aliquots in a stoppered tube and store in the dark at +2 - +8 °C.

Result reporting and methods

We kindly ask you to verify that your method information in LabScala is correct. If necessary, contact EQA Coordinator if you cannot find the correct device or reagent in LabScala.

Please enter the results and methods via LabScala (www.labscala.com). Results from three different devices can be report using same client code if there is enough sample material. Results on a paper sheet are not accepted. When filling in the results, please check that you have analyzed the sample for the current month. The correct month is marked on the sample bottle with a number and a three-letter abbreviation.

1 ST-JAN-23



2023-01-09

INSTRUCTIONS

Product no. 1072,1072S
LQ723623011/UK

If the kit is incomplete or contains damaged specimens, please report immediately to info@labquality.fi

The results should be reported via LabScala no later than **on the last day of the sample analysis month.**

Inquiries

EQA Coordinator
Päivi Ranta
paivi.ranta@labquality.fi

Labquality Oy

Kumpulantie 15
FI-00520 HELSINKI
Finland

Tel. + 358 9 8566 8200
Fax + 358 9 8566 8280

info@labquality.fi
www.labquality.com

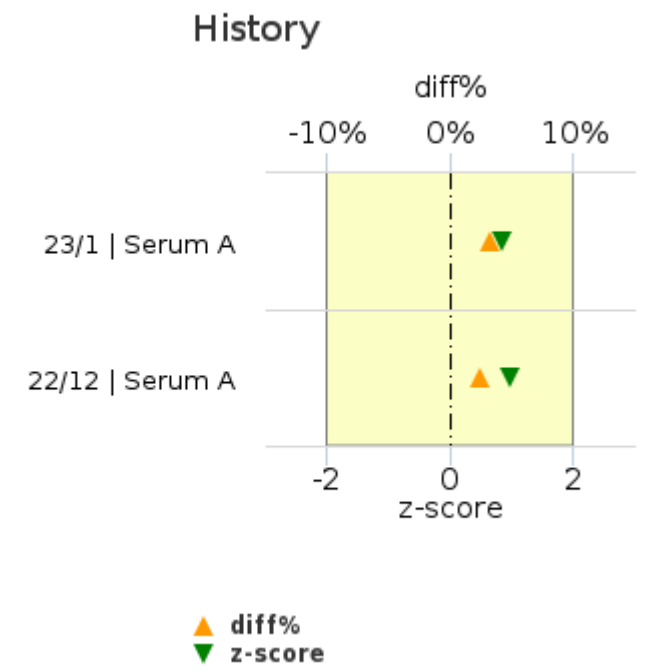
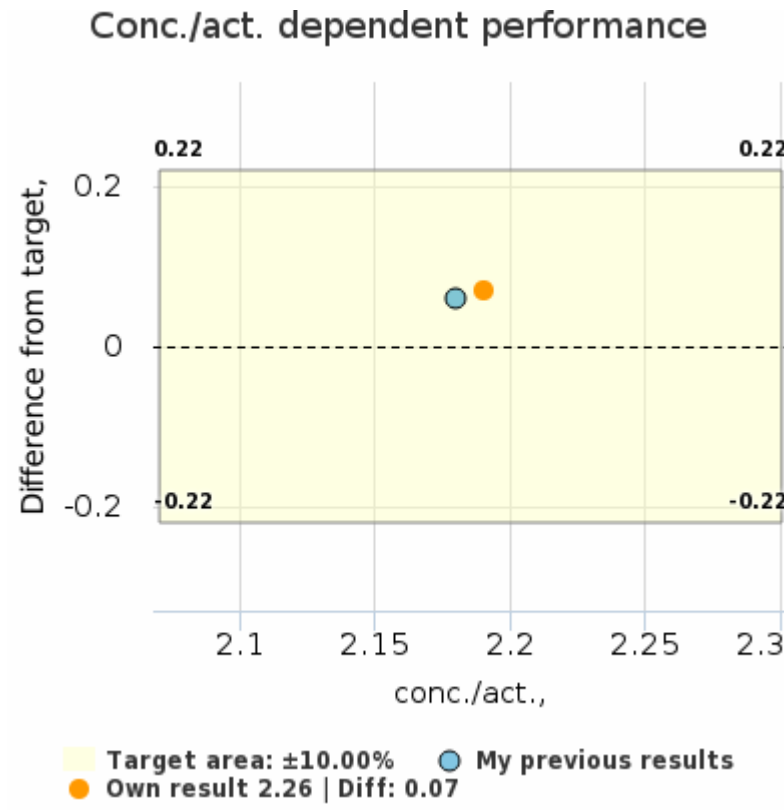
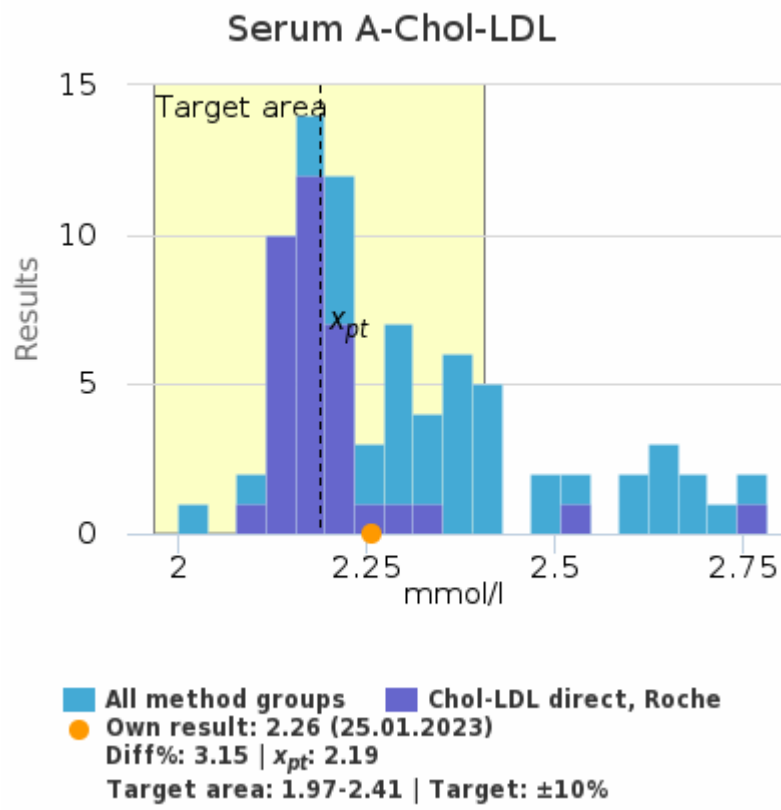


General Clinical Chemistry, Serum A

Examinations

Na	ALP	AMYL-P
K	AMYL	Se
Cl	ASAT	Li
Lactate	ALAT	IgA
Crea	CK	IgE
Urea	LD	IgG
Prot	Fe	IgM
Alb	TIBC	Chol-HDL
Gluc	Transf	Ca-Ion
Ca	T4	OSMOL
Mg	Haptog	A1Glypr
Pi	Cortisol	Antitry
Uric acid	GT	Ca-ion, pH 7.4
Chol	TSH	Chol-LDL
Trigly	T4-free	TfR
Bil	Ferrit	

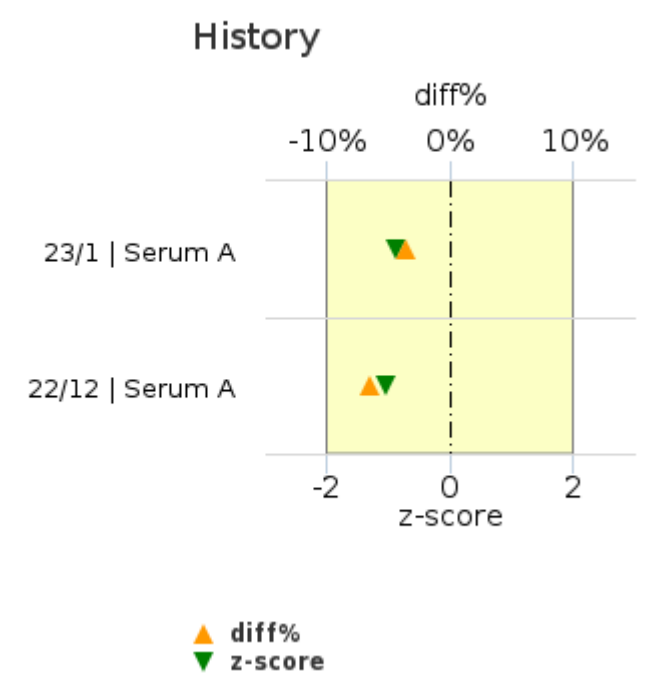
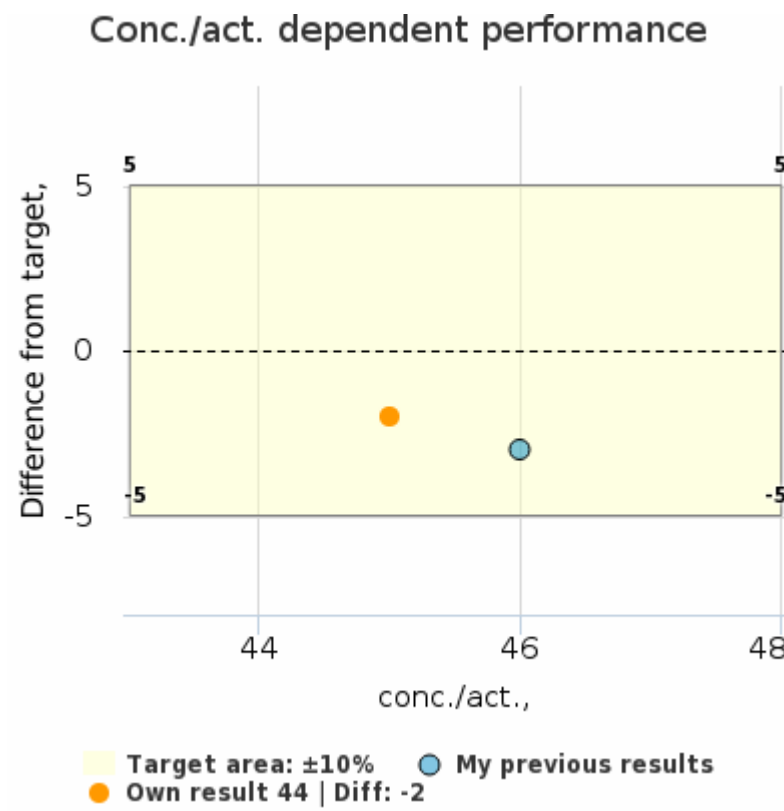
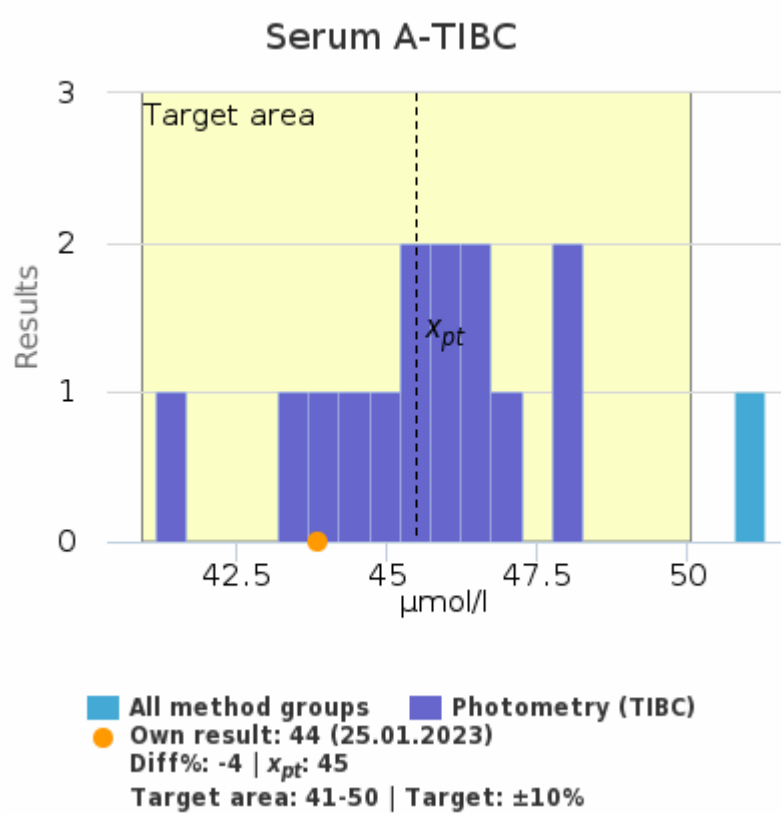
Chol-LDL |cobas c503



	x_{pt}	sd	SEM	CV%	n
Chol-LDL direct, Roche	2.19 mmol/l	0.08	0.01	3.7	35
All methods	2.31 mmol/l	0.18	0.02	7.9	78

Round	Sample	x_{pt}	Result	diff%	z-score
23/1	Serum A	2.19	2.26	3.15%	0.85
22/12	Serum A	2.18	2.23	2.53%	0.98

TIBC |cobas c503



	x_{pt}	sd	SEM	CV%	n
Photometry (TIBC)	45 µmol/l	2	<1	4.1	14
All methods	46 µmol/l	2	<1	5.1	15

Round	Sample	x_{pt}	Result	diff%	z-score
23/1	Serum A	45	44	-4%	-0.88
22/12	Serum A	46	43	-7%	-1.04

Report info**Participants**

115 participants from 9 countries.

Report info

Your own result should be compared to others using the same method.

Assigned values (\bar{x}_p , target values) are means of the results where results deviating more than ± 3 standard deviation from the median are removed. The standard uncertainty (u) of

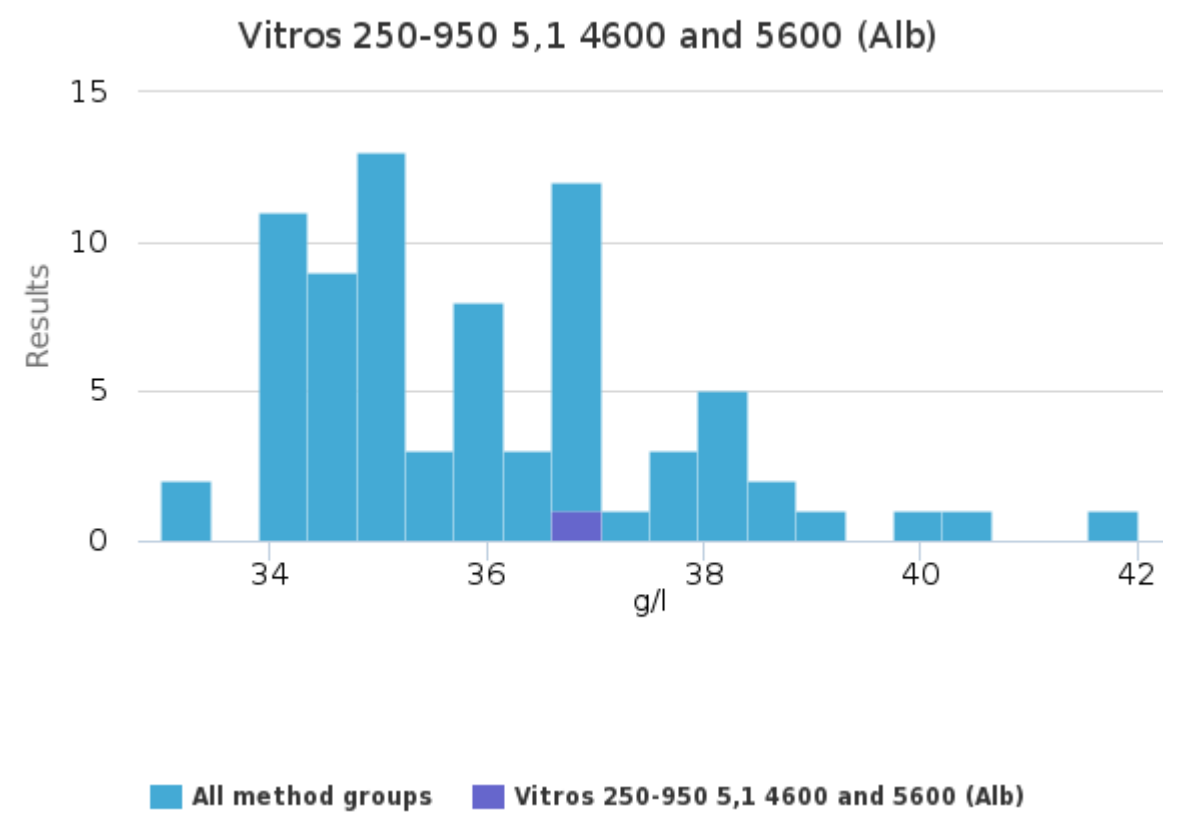
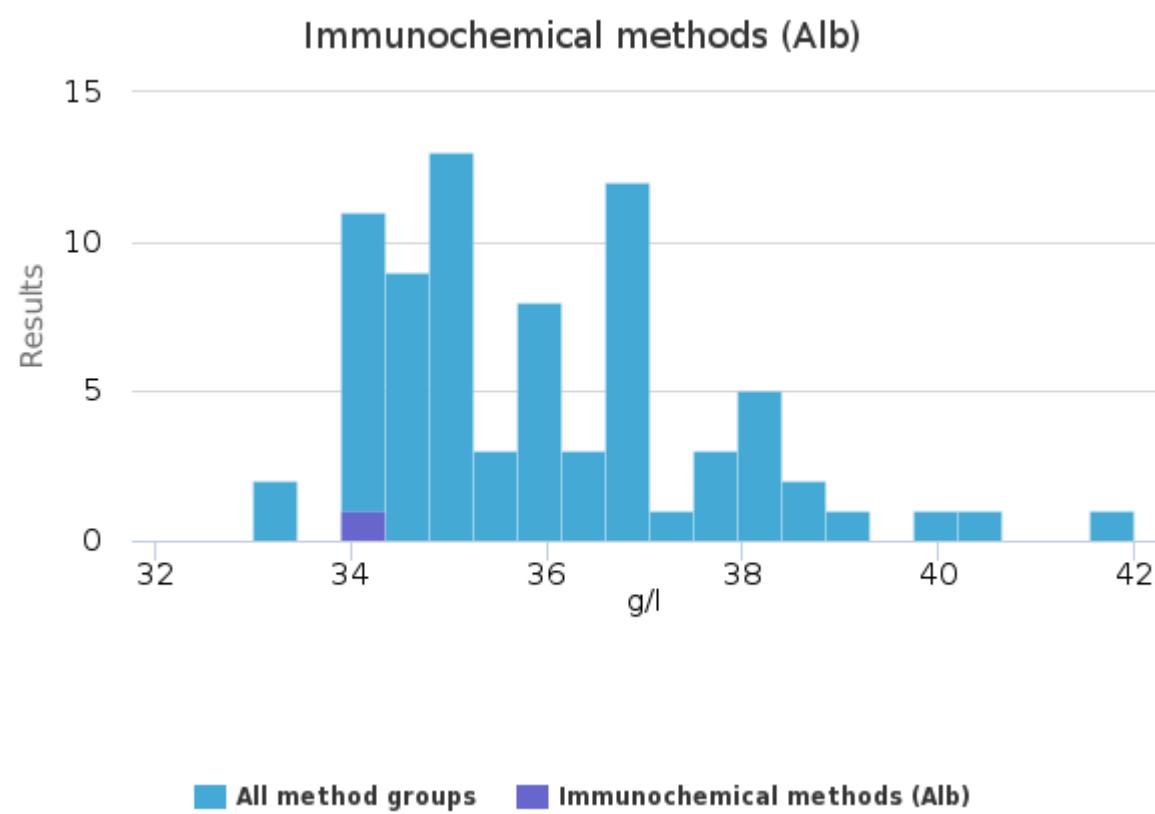
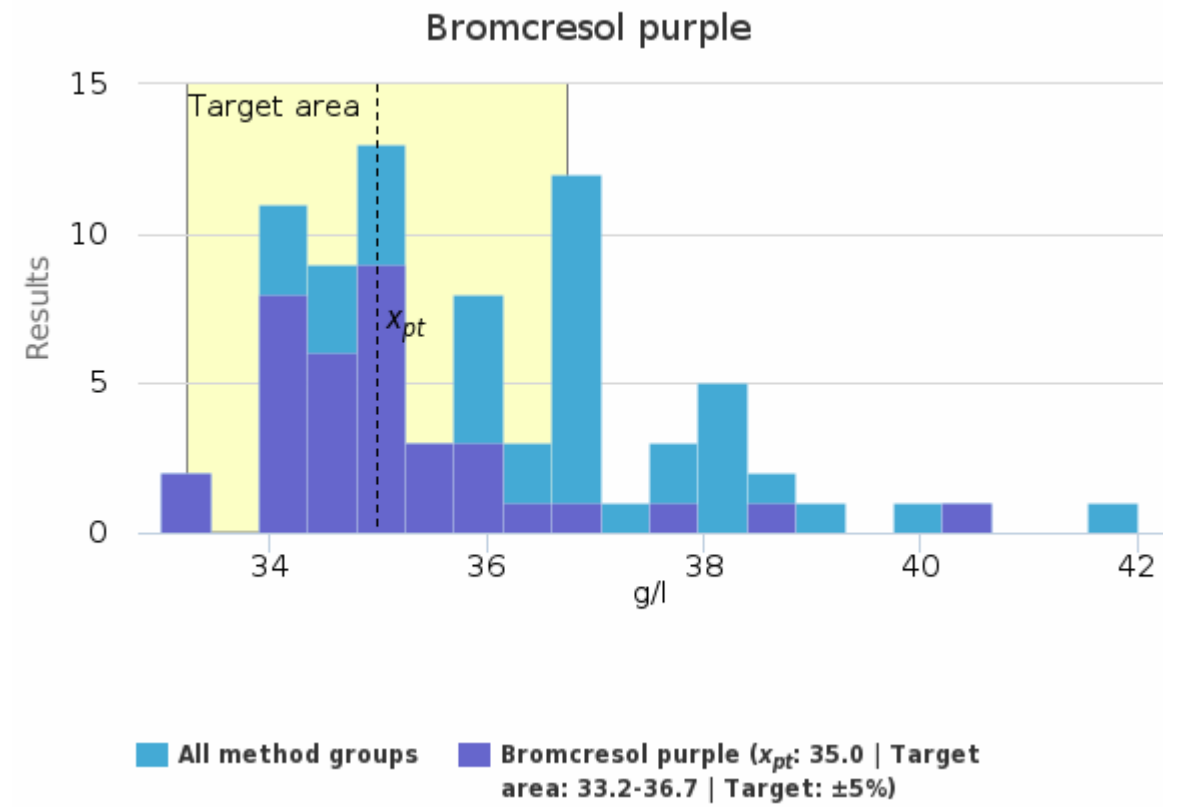
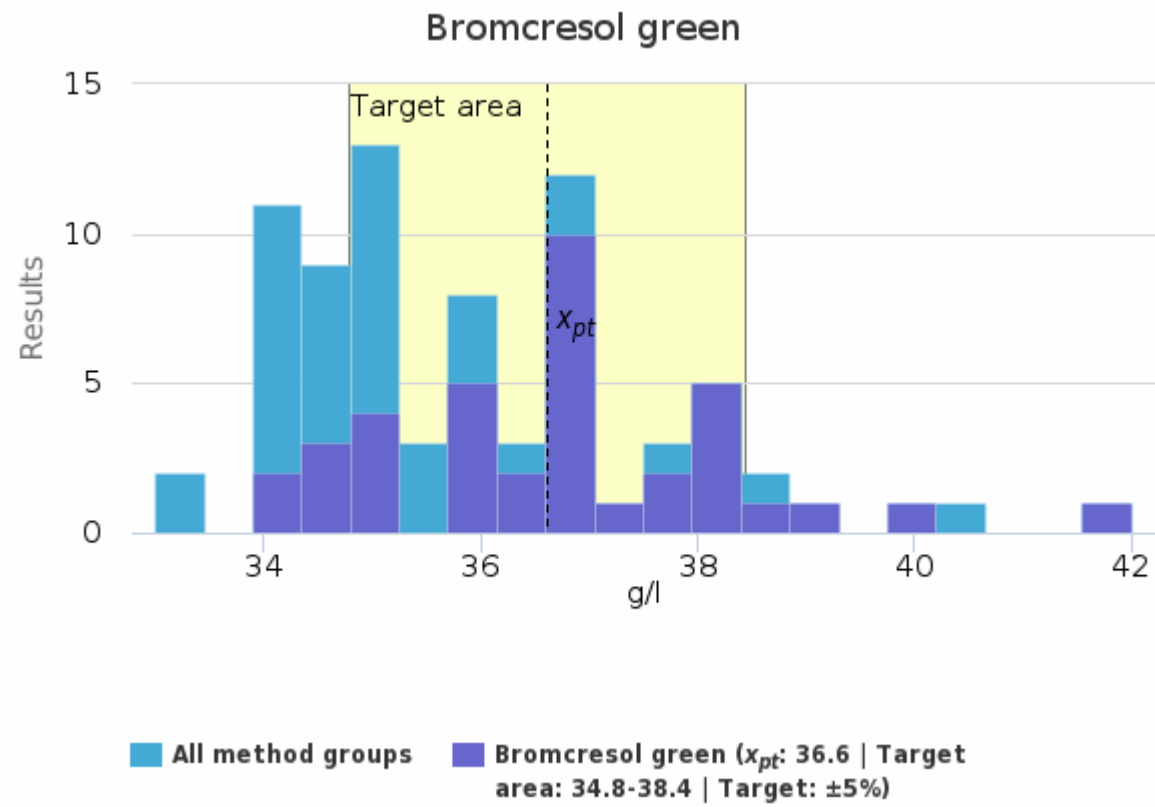
the assigned value is reported as standard error of the mean (SEM). Additionally, if the measurement uncertainty of the target value is large an automatic text is printed on the report: "The uncertainty of the assigned value is not negligible, and evaluations could be affected."

In case the client's result is the only one in the method group, no assigned value will be calculated, no target area shown, and no statistics calculated. In case there are only a few results in the client's own method group, the result can be compared to all method mean or to a group that is similar to the own method. Results reported with $<$ or $>$ -signs cannot be included in the statistics.

For information on report interpretation and performance evaluation, please see the "EOAS Interpretation guidelines" LabScala User instructions (top right corner ?Help link).

Serum A | Alb, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Bromcresol green	36.6	37.0	1.4	3.9	0.2	33.9	40.0	1	38
Bromcresol purple	35.0	34.8	1.2	3.4	0.2	33.0	38.8	1	36
Immunochemical methods (Alb)	-	-	-	-	-	34.0	34.0	-	1
Vitros 250-950 5,1 4600 and 5600 (Alb)	-	-	-	-	-	37.0	37.0	-	1
All	35.9	35.5	1.6	4.5	0.2	33.0	40.3	1	76



Serum A | Alb, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Bromcresol green		36.6	1.4	3.9	38
	Abbott Aeroset, Architect	36.1	1.1	3.0	4
	AU instruments	35.3	1.1	3.1	8
	BioSystems	40.3	1.5	3.8	3
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche cobas	37.0	1.1	3.0	12
	Roche Cobas Integra	38.0	<0.1	0.2	3
Bromcresol purple	Siemens Advia	-	-	-	1
	Thermo Scientific	35.7	0.9	2.4	3
		35.0	1.2	3.4	36
	Abbott Aeroset, Architect	35.0	0.1	0.4	2
	Abbott Alinity	34.2	0.3	0.8	4
	AU instruments	-	-	-	1

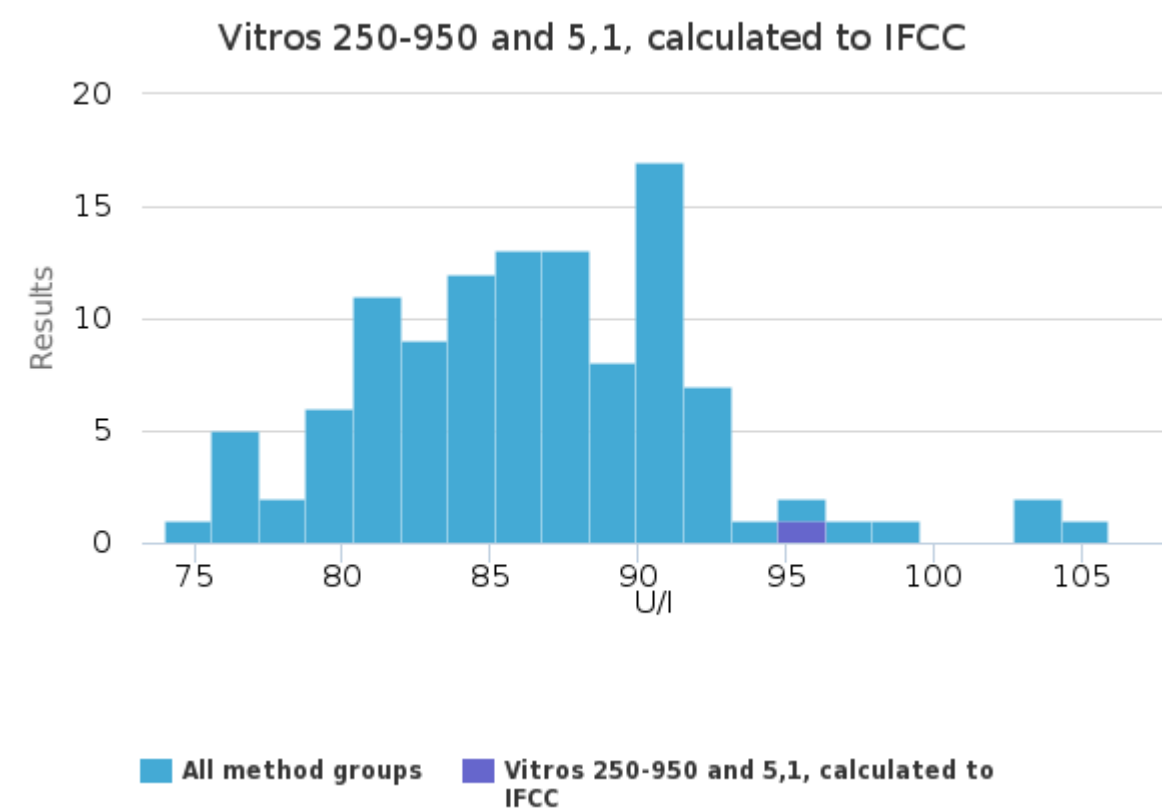
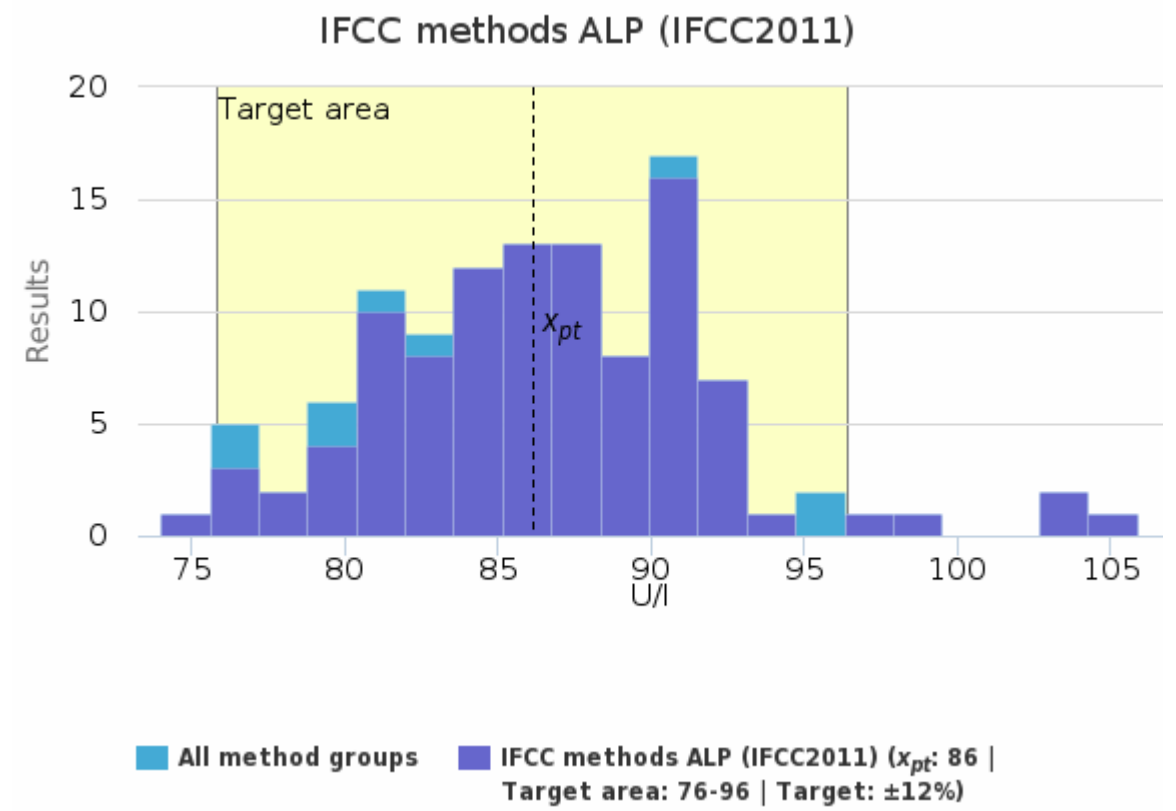
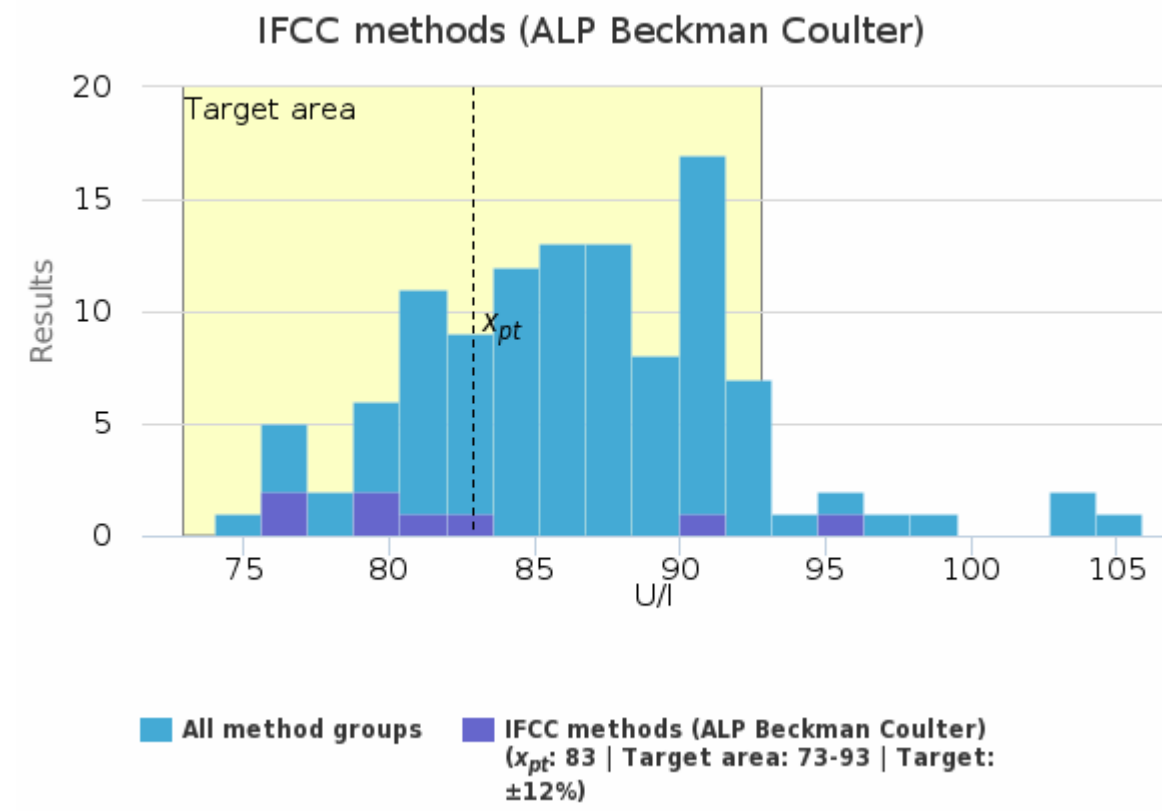
	Roche	-	-	-	1
	Roche cobas	35.1	1.5	4.3	22
	Siemens Advia	35.9	0.9	2.4	4
	Siemens Dimension	-	-	-	1
	Thermo Scientific	-	-	-	1
Immunochemical methods (Alb)		-	-	-	1
	Roche Cobas Integra	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Alb)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Bromcresol green		36.6	1.4	3.9	38
	Advia 1800	-	-	-	1
	Architect c8000	-	-	-	1
	Architect ci8200	35.6	1.5	4.3	2
	Architect c4000	-	-	-	1
	AU 480	35.2	0.9	2.6	5
	AU 680	35.3	1.6	4.5	3
	A25 Automatic Analyzer	40.3	1.5	3.8	3
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	37.1	1.2	3.1	8
	cobas c503	-	-	-	1
	cobas c702	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	-	-	-	1
	Integra 400 Plus	38.0	<0.1	0.2	3
	Konelab PRIME 60i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Bromcresol purple		35.0	1.2	3.4	36
	Advia Chemistry XPT	35.9	0.9	2.4	4
	Alinity c	34.2	0.3	0.8	4
	Architect ci4100	35.0	0.1	0.4	2
	AU 680	-	-	-	1
	cobas c311	35.6	0.7	2.0	3
	cobas c501	34.9	1.7	5.0	13
	cobas c503	36.4	2.2	6.2	4
	cobas c702	34.8	0.5	1.6	3
	Dimension EXL 200	-	-	-	1
	Konelab PRIME 60i	-	-	-	1
Immunochemical methods (Alb)		-	-	-	1
	Integra 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Alb)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Bromcresol green		36.6	1.4	3.9	38
	Bromcresol green (BCG); photometry	36.8	1.6	4.5	38
Bromcresol purple		35.0	1.2	3.4	36
	Bromcresol purple (BCP); photometry	35.1	1.5	4.2	36
Immunochemical methods (Alb)		-	-	-	1
	Immunochemical methods; turbidimetry	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Alb)		-	-	-	1
	Bromcresol green (BCG); reflectance	-	-	-	1

Serum A | ALP, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (ALP Beckman Coulter)	83	81	7	8.5	2	76	96	-	8
IFCC methods ALP (IFCC2011)	86	86	5	5.3	<1	74	98	3	103
Vitros 250-950 and 5,1, calculated to IFCC	-	-	-	-	-	95	95	-	1
All	86	86	5	5.7	<1	74	98	3	112



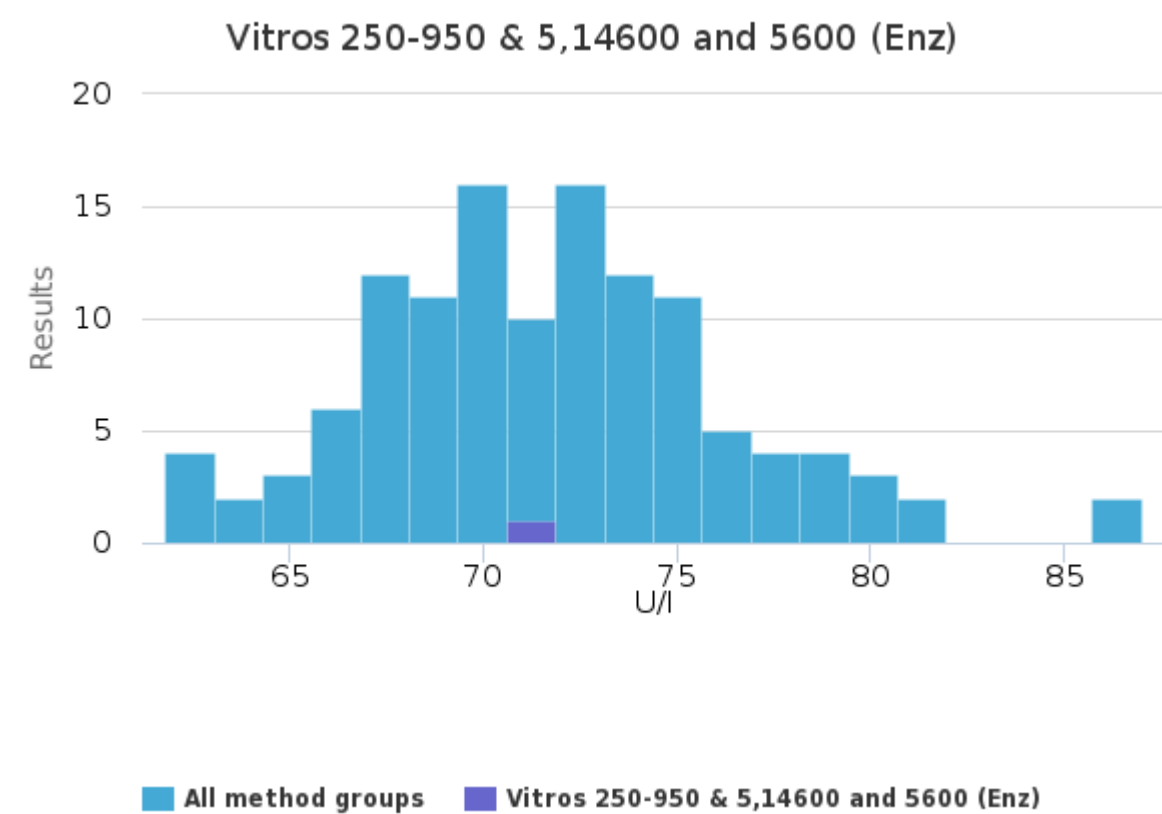
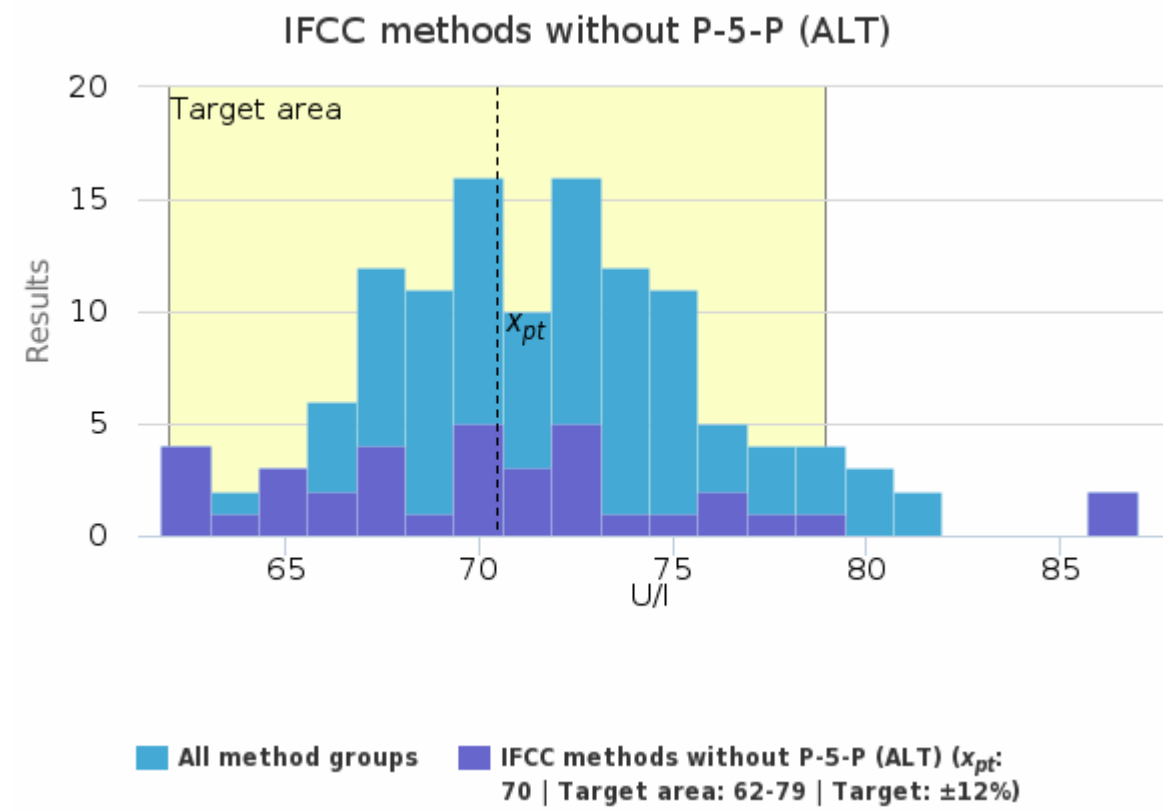
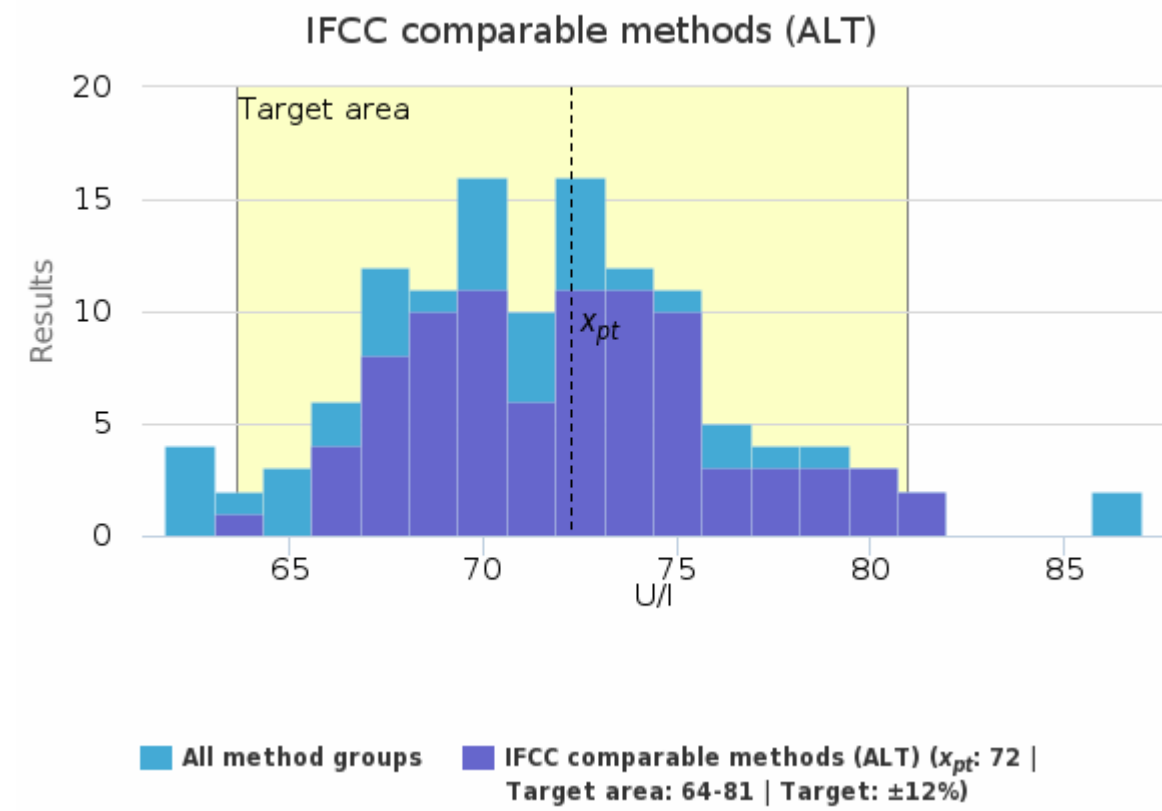
Serum A | ALP, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (ALP Beckman Coulter)		83	7	8.5	8
	AU instruments	83	7	8.5	8
IFCC methods ALP (IFCC2011)		86	5	5.3	103
	Abbott Aeroset, Architect	89	6	6.9	6
	Abbott Alinity	99	7	7.0	4
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche cobas	87	3	3.2	42
	Roche Cobas Integra	90	3	3.4	4
	Siemens Advia	85	5	5.4	5
Vitros 250-950 and 5,1, calculated to IFCC	Siemens Dimension	88	2	2.4	3
	Thermo Scientific	82	4	5.4	5
	Thermo Scientific (IFCC) Plus	84	6	7.2	30
Vitros 250-950 and 5,1, calculated to IFCC		-	-	-	1

	Ortho Vitros 250-950 and 5,1	-	-	-	1
Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (ALP Beckman Coulter)		83	7	8.5	8
	AU 480	86	9	10.4	4
	AU 680	79	2	2.3	4
IFCC methods ALP (IFCC2011)		86	5	5.3	103
	Advia Chemistry XPT	84	3	3.2	4
	Advia 1800	-	-	-	1
	Alinity c	99	7	7.0	4
	Architect c8000	-	-	-	1
	Architect ci4100	94	5	5.3	2
	Architect ci8200	91	<1	0.8	2
	Architect c4000	-	-	-	1
	BT 3500	-	-	-	1
	cobas c111	84	2	1.8	3
	cobas c303	-	-	-	1
	cobas c311	89	2	2.8	5
	cobas c501	87	3	3.2	24
	cobas c503	88	2	2.7	4
	cobas c702	87	3	2.9	5
	Dimension EXL	88	3	3.2	2
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko	84	4	4.7	2
	Indiko Plus	83	4	4.3	11
	Integra 400	-	-	-	1
	Integra 400 Plus	90	4	4.2	3
	Konelab Prime 30	89	4	4.8	2
Konelab PRIME 60i	84	5	5.9	9	
Konelab 20	-	-	-	1	
Konelab 20i	85	12	14.0	5	
Konelab 20XTi	-	-	-	1	
Konelab 30i	83	8	9.3	3	
Konelab 60i	-	-	-	1	
Mindray BS-480	-	-	-	1	
Sapphire 400	-	-	-	1	
Vitros 250-950 and 5,1, calculated to IFCC		-	-	-	1
	Vitros 350	-	-	-	1
Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC methods (ALP Beckman Coulter)		83	7	8.5	8
	pNPP, AMP buffer / pNP; photometry	83	7	8.5	8
IFCC methods ALP (IFCC2011)		86	5	5.3	103
	pNPP, AMP buffer / pNP; photometry	87	5	6.3	103
Vitros 250-950 and 5,1, calculated to IFCC		-	-	-	1
	Alpha-ketoglutarate, Ala, P-5-P / NADH; reflectance	-	-	-	1

Serum A | ALT, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC comparable methods (ALT)	72	72	4	5.4	<1	64	81	-	86
IFCC methods without P-5-P (ALT)	70	70	6	8.4	<1	62	87	-	36
Vitros 250-950 & 5,14600 and 5600 (Enz)	-	-	-	-	-	71	71	-	1
All	72	71	4	5.9	<1	62	81	2	123



Serum A | ALT, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC comparable methods (ALT)		72	4	5.4	86
	Abbott Aeroset, Architect	75	4	5.5	4
	Abbott Alinity	73	5	6.8	4
	AU instruments	71	3	3.6	2
	Biotechnica	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	69	2	3.2	31
	Roche Cobas Integra	70	4	5.3	4
	Siemens Advia	79	2	2.7	4
	Siemens Dimension	76	5	6.2	3
IFCC methods without P-5-P (ALT)	Thermo Scientific	74	3	3.5	32
		70	6	8.4	36
	Abbott Aeroset, Architect	-	-	-	1
	AU instruments	70	2	3.4	7
	BioSystems	84	4	5.2	3
	Cormay	70	3	4.6	2
	Erba	-	-	-	1
	Mindray	-	-	-	1

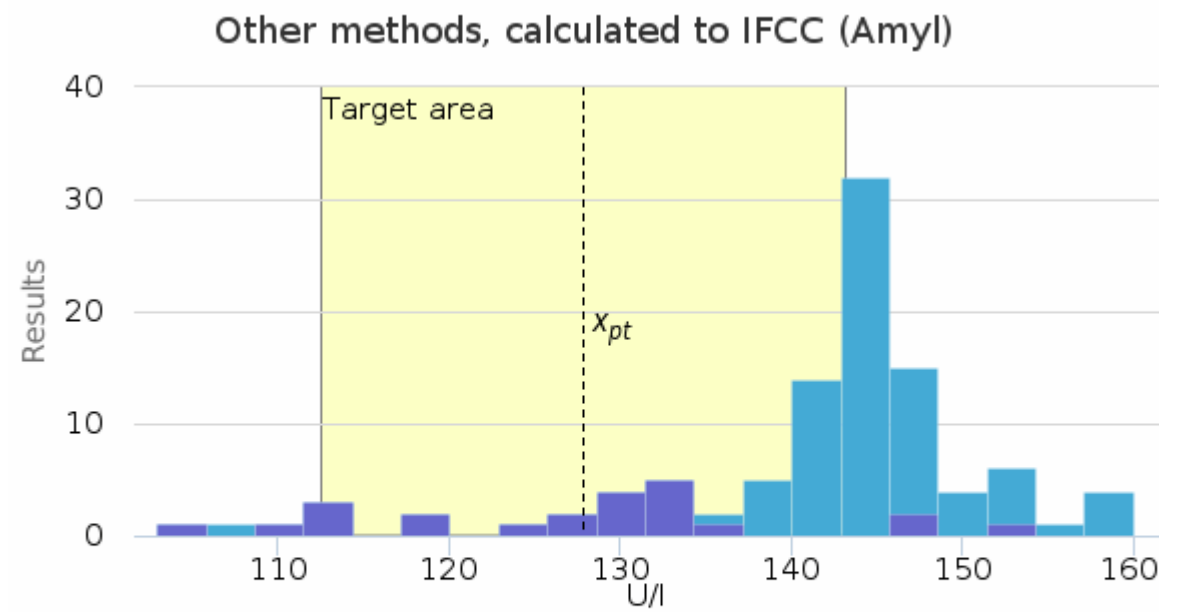
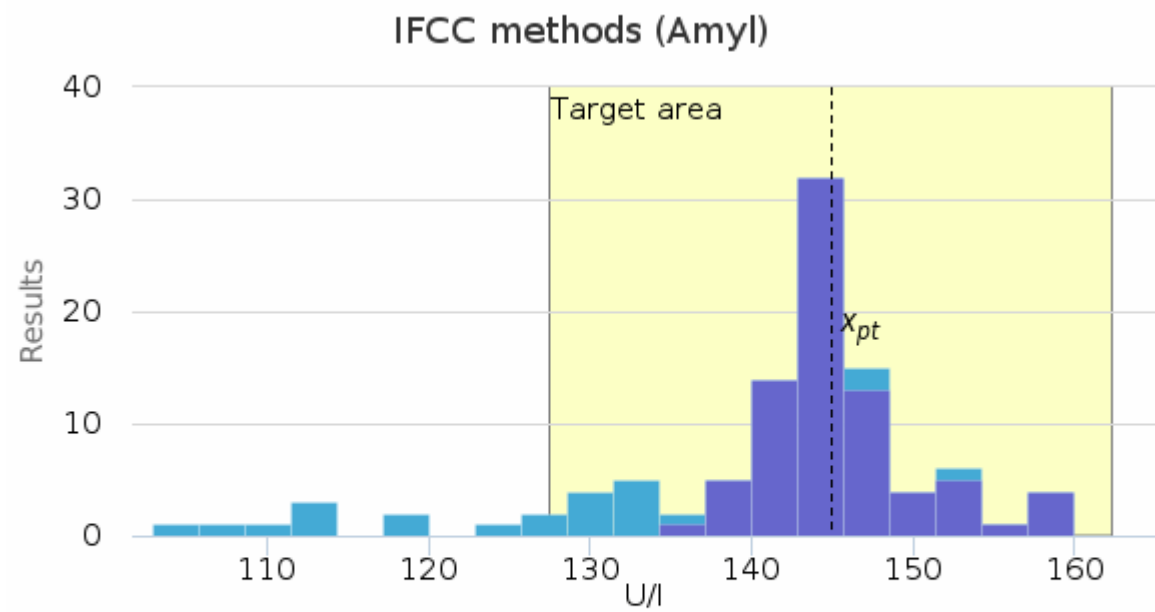
	Roche cobas	67	3	4.8	12
	Roche Cobas Integra	-	-	-	1
	Siemens Advia	-	-	-	1
	Thermo Scientific	74	3	3.5	7
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC comparable methods (ALT)		72	4	5.4	86
	Advia Chemistry XPT	79	2	2.7	4
	Alinity c	73	5	6.8	4
	Architect c8000	-	-	-	1
	Architect ci4100	78	3	4.5	2
	Architect ci8200	-	-	-	1
	AU 480	71	3	3.6	2
	BT 3500	-	-	-	1
	cobas c111	69	1	1.5	3
	cobas c303	-	-	-	1
	cobas c311	69	2	2.4	4
	cobas c501	69	2	3.3	15
	cobas c503	69	3	4.2	5
	cobas c702	70	<1	1.3	4
	Dimension EXL	73	1	1.9	2
	Dimension EXL 200	-	-	-	1
	Indiko	75	<1	1.1	2
	Indiko Plus	74	1	1.9	9
	Integra 400	-	-	-	1
	Integra 400 Plus	70	4	5.7	3
	Konelab Prime 30	77	3	3.7	2
	Konelab PRIME 60i	75	4	4.9	8
	Konelab 20	-	-	-	1
	Konelab 20i	74	3	3.9	5
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 30i	74	1	1.6	3
IFCC methods without P-5-P (ALT)		70	6	8.4	36
	Advia 1800	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	70	4	5.7	3
	AU 680	70	<1	0.7	4
	A25 Automatic Analyzer	84	4	5.2	3
	cobas c311	-	-	-	1
	cobas c501	68	3	4.8	10
	cobas c702	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	73	<1	0.2	2
	Integra 400 Plus	-	-	-	1
	Konelab PRIME 60i	76	<1	0.9	2
	Konelab 20i	76	4	4.7	2
	Konelab 60i	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC comparable methods (ALT)		72	4	5.4	86
	Alpha-ketoglutarate, Ala, P-5-P / NADH consumption; photometry	72	4	5.4	86
IFCC methods without P-5-P (ALT)		70	6	8.4	36
	Alpha-ketoglutarate, Ala / NADH consumption; photometry	70	6	8.4	36
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Alpha-ketoglutarate, Ala, P-5-P / NADH; reflectance	-	-	-	1

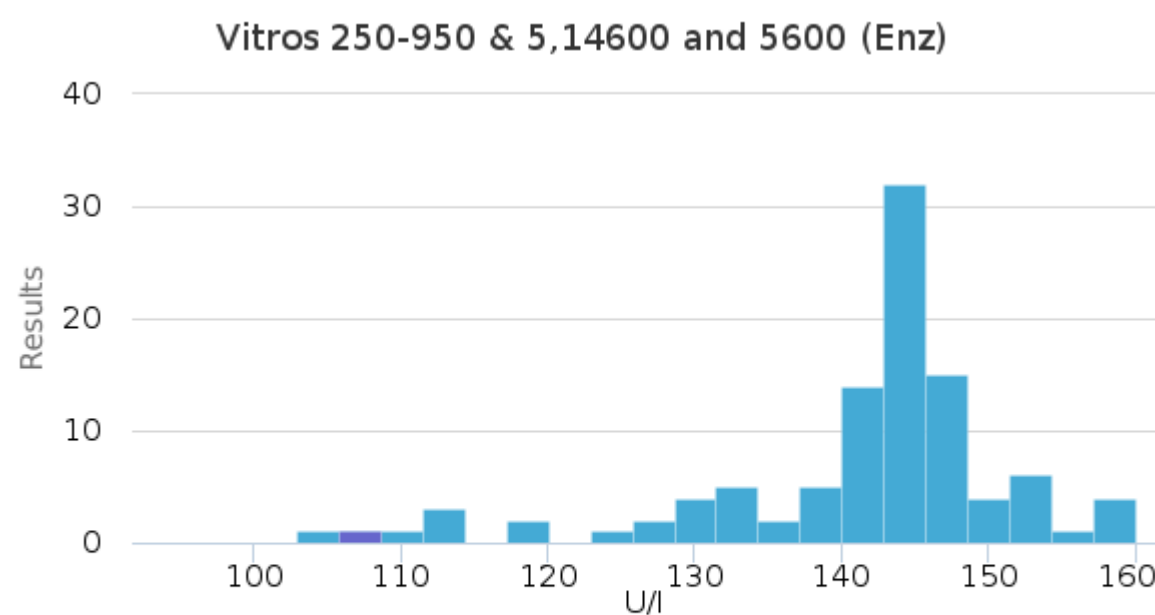
Serum A | Amyl, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (Amyl)	145	144	4	2.8	<1	137	158	2	79
Other methods, calculated to IFCC (Amyl)	128	130	12	9.4	3	103	152	-	23
Vitros 250-950 & 5,1 4600 and 5600 (Enz)	-	-	-	-	-	107	107	-	1
All	142	143	9	6.3	<1	113	160	3	103



■ All method groups ■ IFCC methods (Amyl) (x_{pt} : 145 | Target area: 128-162 | Target: ±12%)

■ All method groups ■ Other methods, calculated to IFCC (Amyl) (x_{pt} : 128 | Target area: 113-143 | Target: ±12%)



■ All method groups ■ Vitros 250-950 & 5,14600 and 5600 (Enz)

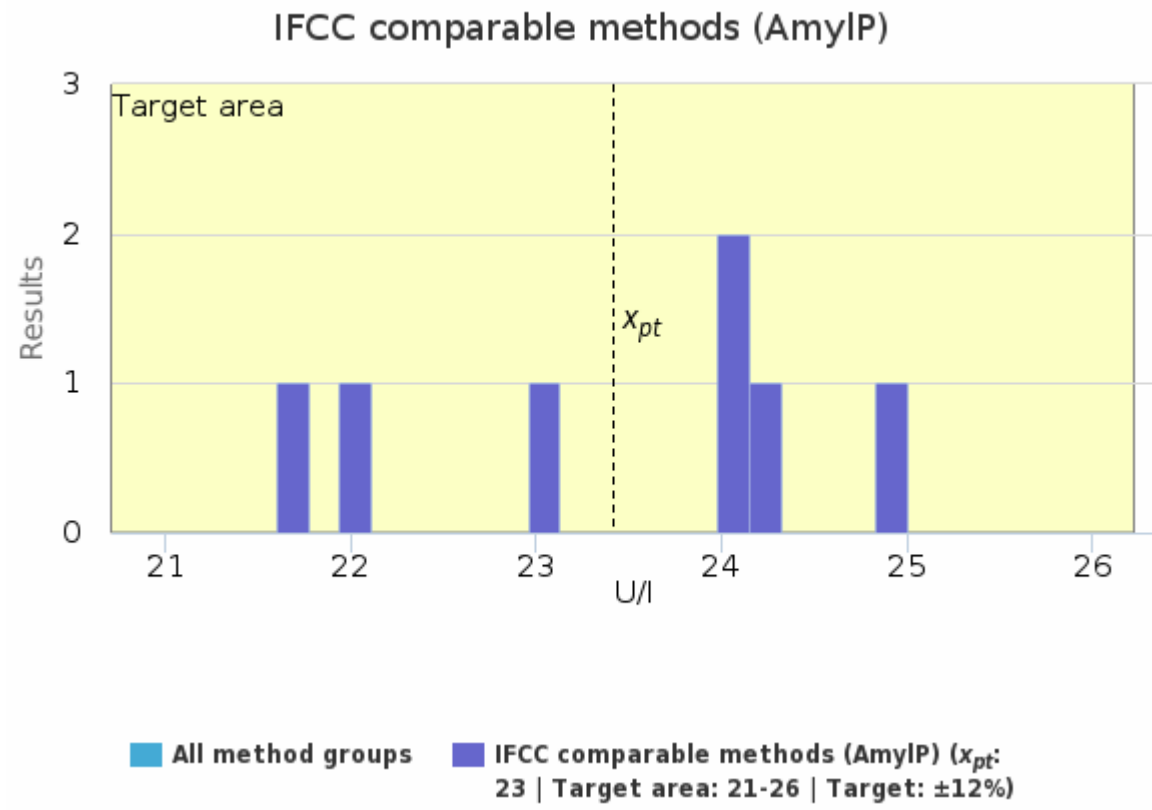
Serum A | Amyl, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (Amyl)		145	4	2.8	79
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	143	2	1.5	41
	Roche Cobas Integra	148	2	1.0	3
	Siemens Advia	142	3	1.9	5
	Thermo Scientific	148	6	4.1	27
Other methods, calculated to IFCC (Amyl)		128	12	9.4	23
	Abbott Aeroset, Architect	136	8	6.2	4
	Abbott Alinity	133	2	1.4	4
	AU instruments	123	17	13.7	9
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Siemens Dimension	126	5	4.2	3
	Spainlab	-	-	-	1

Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1
Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (Amyl)		145	4	2.8	79
	Advia Chemistry XPT	143	3	1.8	4
	Advia 1800	-	-	-	1
	cobas c111	144	1	0.9	3
	cobas c303	-	-	-	1
	cobas c311	145	2	1.2	5
	cobas c501	143	2	1.6	24
	cobas c503	145	1	1.0	4
	cobas c702	144	2	1.5	5
	Erba XL 100	-	-	-	1
	Indiko	-	-	-	1
	Indiko Plus	147	6	4.1	6
	Integra 400	-	-	-	1
	Integra 400 Plus	147	1	0.8	2
	Konelab Prime 30	-	-	-	1
	Konelab PRIME 60i	149	7	4.7	9
	Konelab 20	-	-	-	1
	Konelab 20i	153	6	3.8	4
	Konelab 20XTi	-	-	-	1
	Konelab 30i	145	3	1.7	3
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
Other methods, calculated to IFCC (Amyl)		128	12	9.4	23
	Alinity c	133	2	1.4	4
	Architect c8000	-	-	-	1
	Architect ci4100	133	1	1.1	2
	Architect ci8200	-	-	-	1
	AU 480	120	17	14.4	5
	AU 680	127	18	14.2	4
	BT 3500	-	-	-	1
	Dimension EXL	129	1	1.1	2
	Dimension EXL 200	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Vitros 350	-	-	-	1
Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC methods (Amyl)		145	4	2.8	79
	Etyl.-G7-pNP / pNP; photometry	145	5	3.2	79
Other methods, calculated to IFCC (Amyl)		128	12	9.4	23
	Cl-G3-pNP / Cl-pNP; photometry	128	12	9.4	23
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Alpha-ketoglutarate, Ala, P-5-P / NADH; reflectance	-	-	-	1

Serum A | AmyIP, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC comparable methods (AmyIP)	23	24	1	5.3	<1	22	25	-	7
All	23	24	1	5.3	<1	22	25	-	7



Serum A | AmyIP, U/l, Additional summary

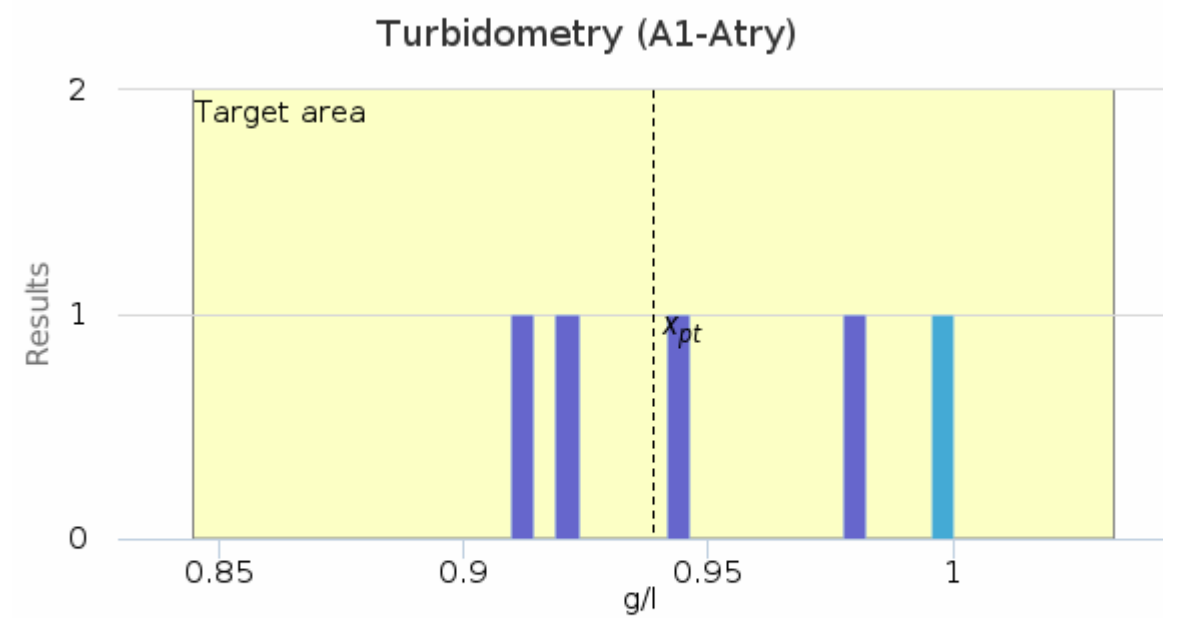
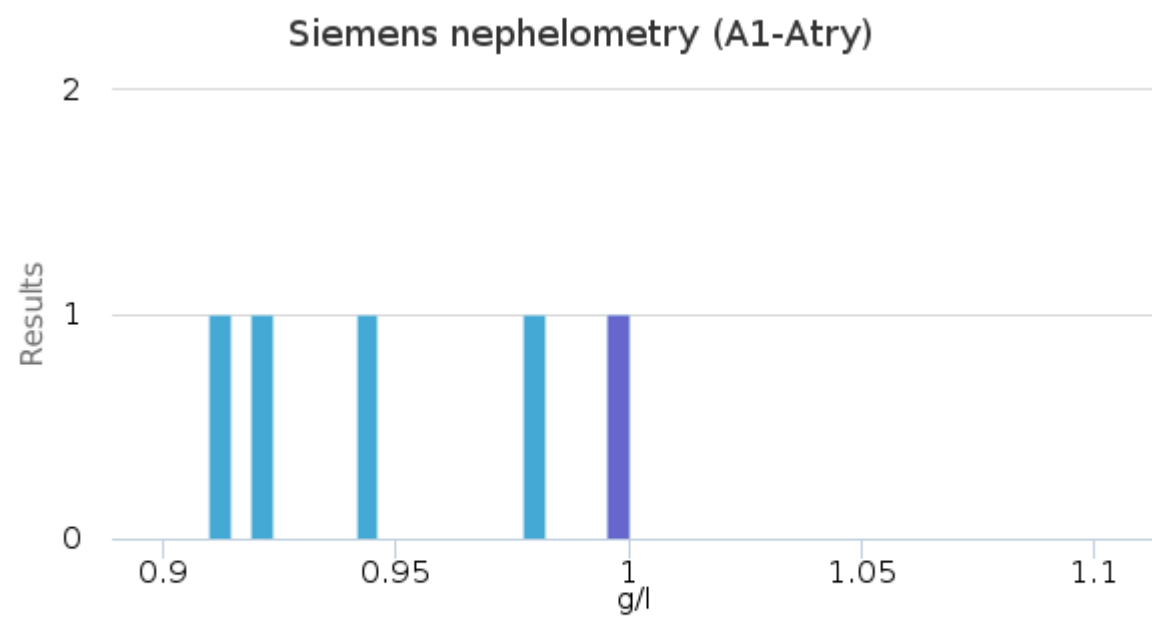
Methodics	Method	x_{pt}	sd	CV%	n
IFCC comparable methods (AmyIP)		23	1	5.3	7
	Abbott Aeroset, Architect	-	-	-	1
	AU instruments	-	-	-	1
	Roche cobas	24	<1	2.3	3
	Siemens Advia	-	-	-	1
	Thermo Scientific	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC comparable methods (AmyIP)		23	1	5.3	7
	Advia 1800	-	-	-	1
	Architect ci8200	-	-	-	1
	AU 680	-	-	-	1
	cobas c501	24	<1	2.3	3
	Indiko Plus	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC comparable methods (AmyIP)		23	1	5.3	7
	Antibody inhibition / Etyl-G7-pNP (EPS); photometry	23	1	5.3	7

Serum A | Antitry, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (A1-Atry)	-	-	-	-	-	1.00	1.00	-	1
Turbidometry (A1-Atry)	0.94	0.93	0.03	3.3	0.02	0.91	0.98	-	4
All	0.95	0.95	0.04	4.0	0.02	0.91	1.00	-	5



■ All method groups ■ Siemens nephelometry (A1-Atry)

■ All method groups ■ Turbidometry (A1-Atry) (x_{pt} : 0.94 | Target area: 0.84-1.03 | Target: $\pm 10\%$)

Serum A | Antitry, g/l, Additional summary

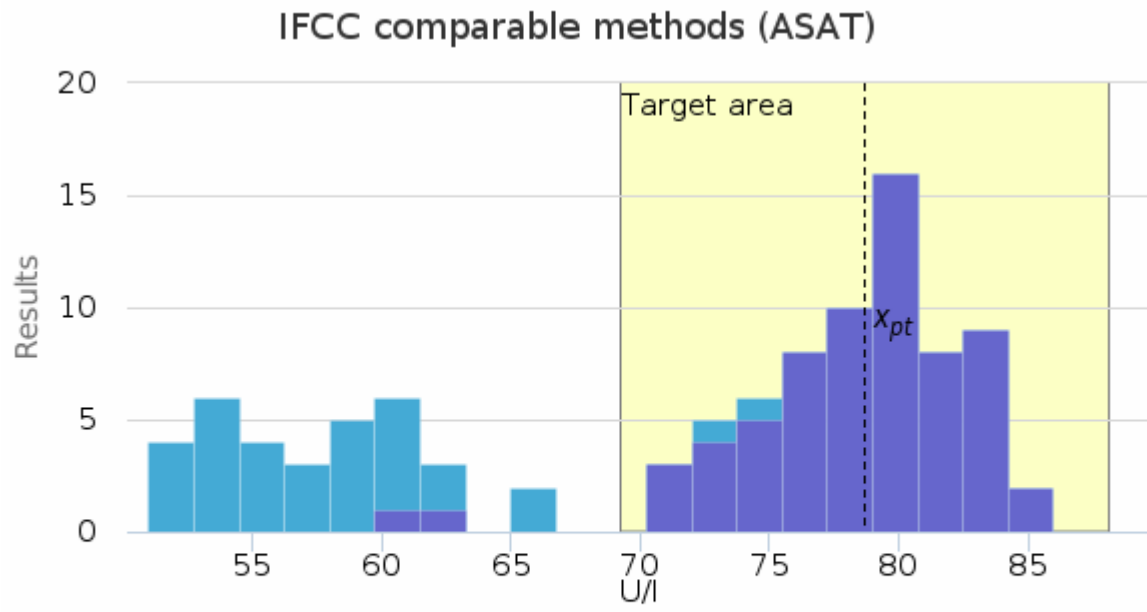
Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Atry)		-	-	-	1
	Siemens BN instruments	-	-	-	1
Turbidometry (A1-Atry)		0.94	0.03	3.3	4
	AU instruments	-	-	-	1
	Optilite	-	-	-	1
	Roche cobas	-	-	-	1
	Siemens Atellica	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Atry)		-	-	-	1
	BN ProSpec	-	-	-	1
Turbidometry (A1-Atry)		0.94	0.03	3.3	4
	Atellica CH 930	-	-	-	1
	AU 480	-	-	-	1
	cobas c502	-	-	-	1
	Optilite	-	-	-	1

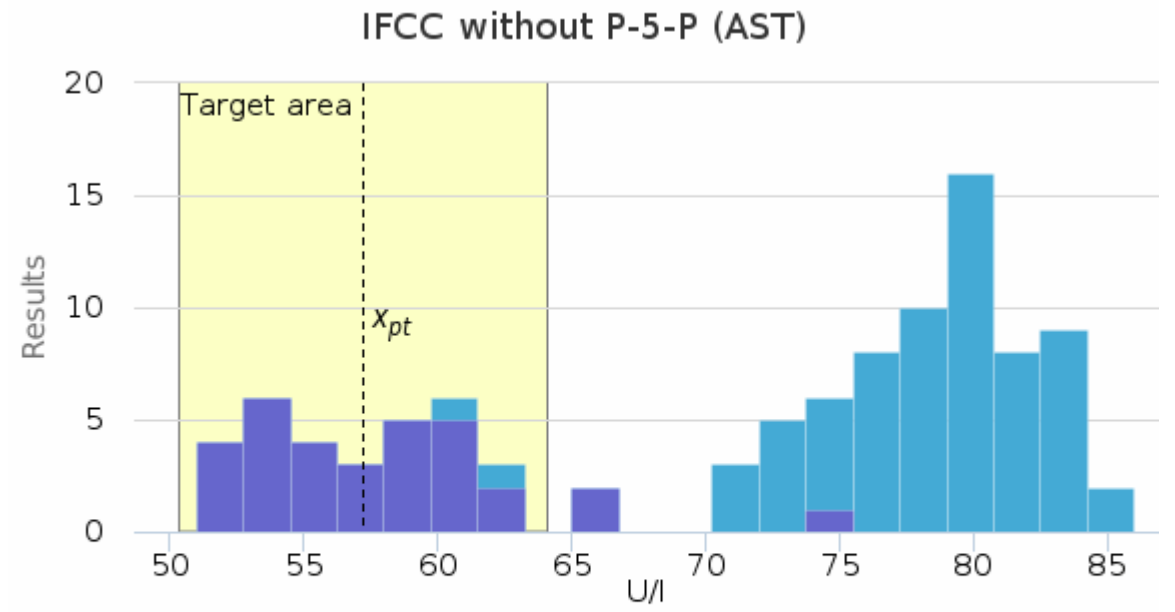
Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Atry)		-	-	-	1
	Antigen-antibody (Ag-Ab) complex; nephelometry	-	-	-	1
Turbidometry (A1-Atry)		0.94	0.03	3.3	4
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.94	0.03	3.3	4

Serum A | AST, U/l

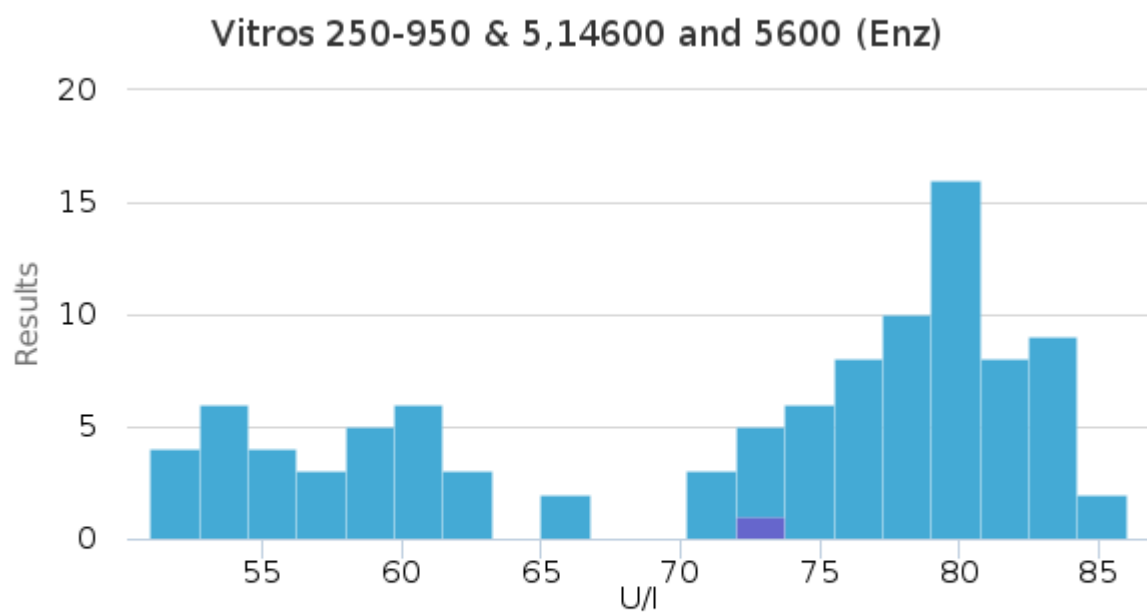
Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC comparable methods (ASAT)	79	79	4	4.6	<1	71	86	2	67
IFCC without P-5-P (AST)	57	57	4	6.7	<1	51	65	1	32
Vitros 250-950 & 5,1 4600 and 5600 (Enz)	-	-	-	-	-	72	72	-	1
All	72	76	11	14.8	1	51	86	-	100



All method groups IFCC comparable methods (ASAT) (x_{pt} : 79 | Target area: 69-88 | Target: $\pm 12\%$)



All method groups IFCC without P-5-P (AST) (x_{pt} : 57 | Target area: 50-64 | Target: $\pm 12\%$)



All method groups Vitros 250-950 & 5,14600 and 5600 (Enz)

Serum A | AST, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC comparable methods (ASAT)		79	4	4.6	67
	Abbott Aeroset, Architect	78	1	1.8	4
	Abbott Alinity	82	1	1.7	3
	AU instruments	-	-	-	1
	Biotechnica	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	77	3	4.3	23
	Roche Cobas Integra	79	2	1.9	3
	Siemens Advia	82	3	3.3	4
	Siemens Dimension	72	2	3.2	3
Thermo Scientific	80	3	3.5	24	
IFCC without P-5-P (AST)		57	4	6.7	32
	Abbott Aeroset, Architect	-	-	-	1
	Abbott Alinity	-	-	-	1
	AU instruments	60	2	2.7	8
	BioSystems	68	5	7.6	3
	Cormay	59	3	5.0	2
	Erba	-	-	-	1

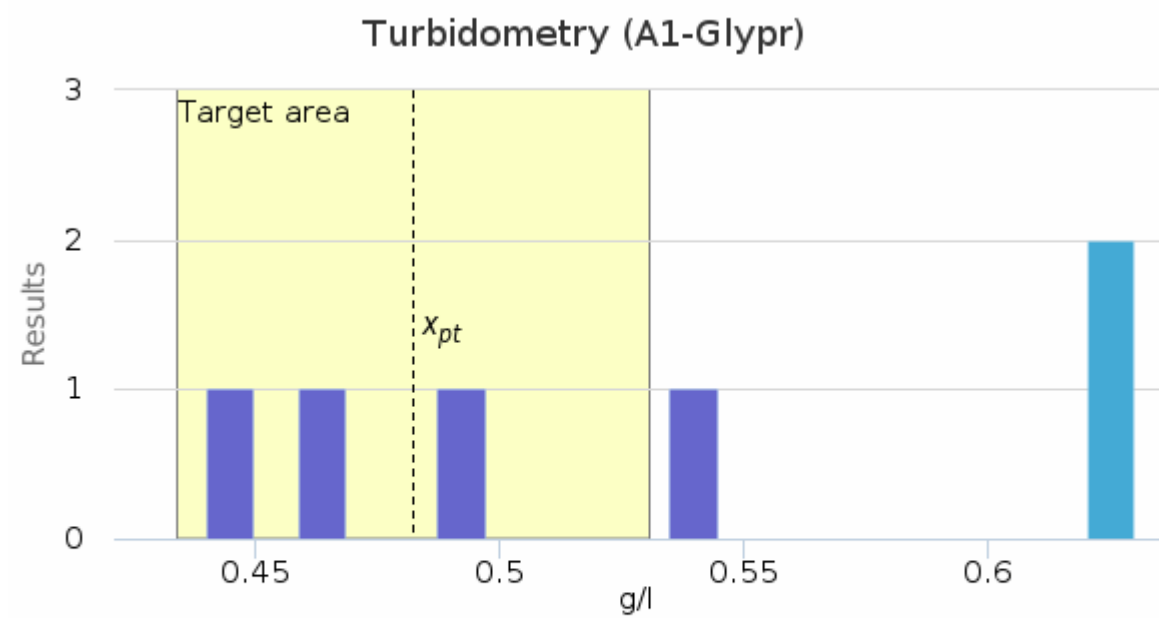
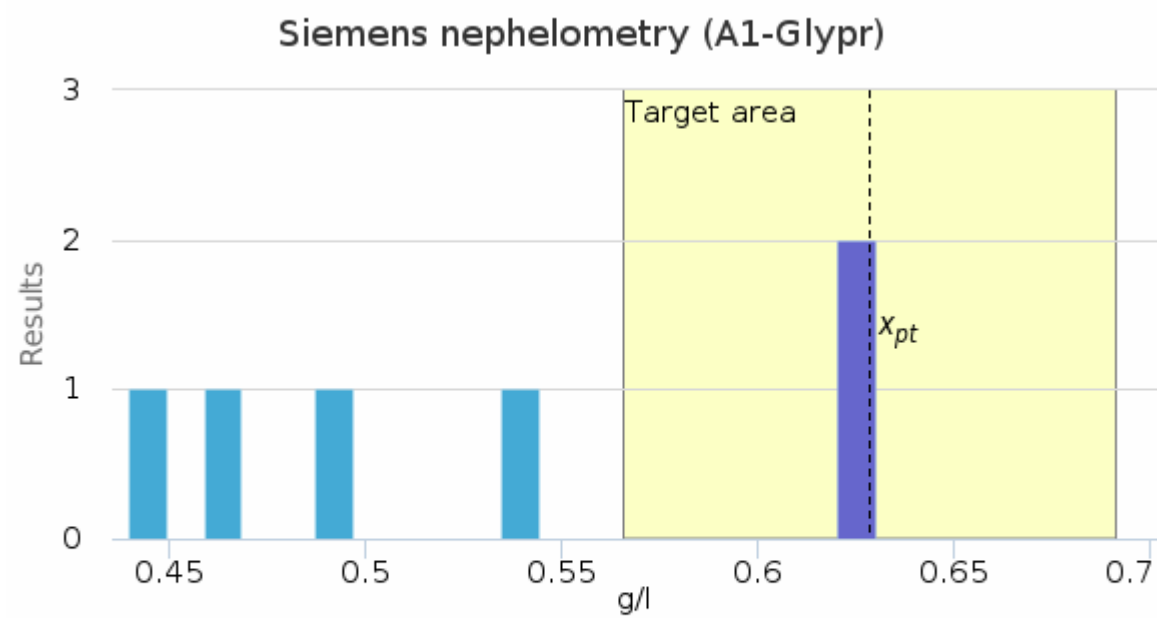
	Mindray AST IFCC	-	-	-	1
	Roche cobas	55	2	3.7	11
	Roche Cobas Integra	-	-	-	1
	Siemens Advia	-	-	-	1
	Thermo Scientific	61	1	2.3	2
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC comparable methods (ASAT)		79	4	4.6	67
	Advia Chemistry XPT	82	3	3.3	4
	Alinity c	82	1	1.7	3
	Architect c8000	-	-	-	1
	Architect ci4100	79	<1	<0.1	2
	Architect ci8200	-	-	-	1
	AU 480	-	-	-	1
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	76	<1	0.4	2
	cobas c501	77	2	3.2	12
	cobas c503	73	3	3.8	5
	cobas c702	79	4	4.9	4
	Dimension EXL	73	3	3.9	2
	Dimension EXL 200	-	-	-	1
	Indiko	79	2	2.8	2
	Indiko Plus	78	1	1.6	8
	Integra 400	-	-	-	1
	Integra 400 Plus	80	<1	0.9	2
	Konelab Prime 30	82	1	1.7	2
	Konelab PRIME 60i	82	3	3.2	3
	Konelab 20	-	-	-	1
	Konelab 20i	82	4	5.2	5
	Konelab 20XTi	-	-	-	1
	Konelab 30i	81	2	2.6	2
IFCC without P-5-P (AST)		57	4	6.7	32
	Advia 1800	-	-	-	1
	Alinity c	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	60	2	3.5	4
	AU 680	59	<1	1.4	4
	A25 Automatic Analyzer	68	5	7.6	3
	cobas c311	-	-	-	1
	cobas c501	55	2	3.0	9
	cobas c702	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	-	-	-	1
	Integra 400 Plus	-	-	-	1
	Konelab 60i	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC comparable methods (ASAT)		79	4	4.6	67
	Alpha-ketoglutarate, Asp, P-5-P / NADH consumption; photometry	78	5	5.9	67
IFCC without P-5-P (AST)		57	4	6.7	32
	Alpha-ketoglutarate, Asp / NADH consumption; photometry	58	5	8.4	32
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Alpha-ketoglutarate, Ala, P-5-P / NADH; reflectance	-	-	-	1

Serum A | A1Glypr, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (A1-Glypr)	0.63	0.63	<0.01	0.3	<0.01	0.63	0.63	-	2
Turbidometry (A1-Glypr)	0.48	0.48	0.04	9.0	0.02	0.44	0.54	-	4
All	0.53	0.52	0.08	15.5	0.03	0.44	0.63	-	6



■ All method groups ■ Siemens nephelometry (A1-Glypr) (x_{pt} : 0.63 | Target area: 0.57-0.69 | Target: $\pm 10\%$)

■ All method groups ■ Turbidometry (A1-Glypr) (x_{pt} : 0.48 | Target area: 0.43-0.53 | Target: $\pm 10\%$)

Serum A | A1Glypr, g/l, Additional summary

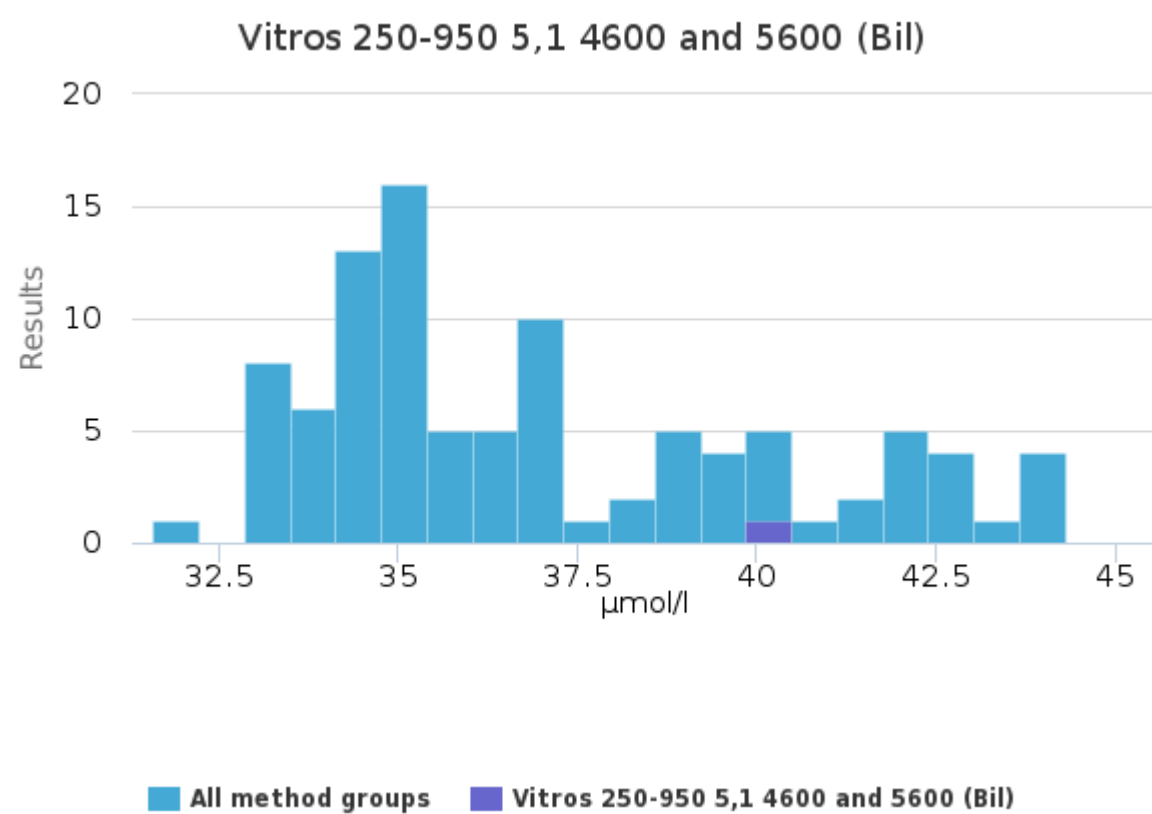
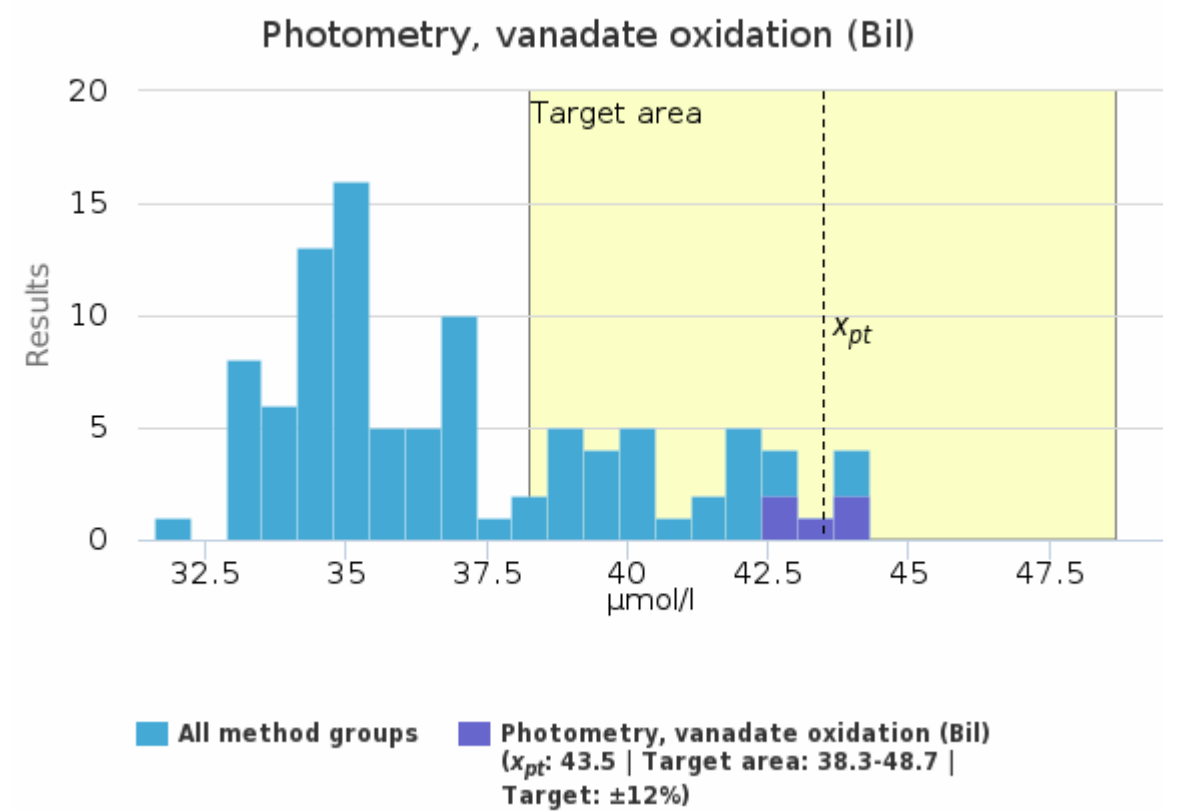
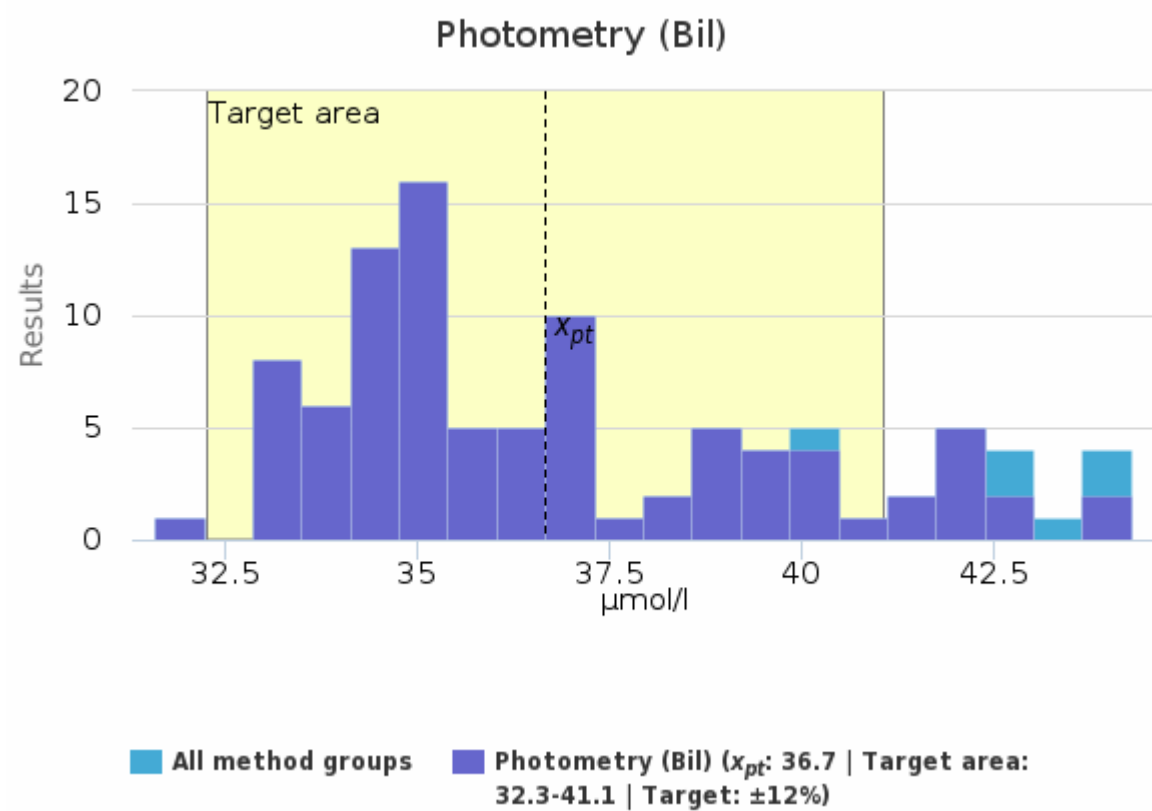
Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Glypr)		0.63	<0.01	0.3	2
	Siemens BN instruments	0.63	<0.01	0.3	2
Turbidometry (A1-Glypr)		0.48	0.04	9.0	4
	AU instruments	-	-	-	1
	Roche cobas	-	-	-	1
	Roche Cobas Integra	-	-	-	1
	Roche cobas Tina-quant	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Glypr)		0.63	<0.01	0.3	2
	BN II	-	-	-	1
	BN ProSpec	-	-	-	1
Turbidometry (A1-Glypr)		0.48	0.04	9.0	4
	AU 480	-	-	-	1
	cobas c502	-	-	-	1
	cobas c503	-	-	-	1
	Integra 400 Plus	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (A1-Glypr)		0.63	<0.01	0.3	2
	Antigen-antibody (Ag-Ab) complex; nephelometry	0.63	<0.01	0.3	2
Turbidometry (A1-Glypr)		0.48	0.04	9.0	4
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.48	0.04	9.0	4

Serum A | Bil, tot, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Bil)	36.7	35.9	2.9	7.9	0.3	31.6	44.0	-	92
Photometry, vanadate oxidation (Bil)	43.5	43.5	0.8	1.9	0.4	42.6	44.3	-	5
Vitros 250-950 5,1 4600 and 5600 (Bil)	-	-	-	-	-	40.0	40.0	-	1
All	37.1	36.2	3.2	8.7	0.3	31.6	44.3	-	98



Serum A | Bil, tot, µmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Bil)		36.7	2.9	7.9	92
	Abbott Aeroset, Architect	41.4	1.9	4.5	5
	Abbott Alinity	42.7	0.9	2.2	4
	AU instruments	40.1	1.6	4.1	9
	BioSystems	36.7	0.4	1.0	3
	Biotechnica	-	-	-	1
	Erba	35.9	1.0	2.8	2
	Granum	-	-	-	1
	Mindray BIL-T	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	34.5	1.2	3.5	42
	Roche Cobas Integra	35.6	1.1	3.1	4
	Siemens Dimension	38.9	0.4	0.9	3
	Thermo Scientific	37.0	1.2	3.2	6
Thermo Scientific NBD	37.5	2.1	5.5	10	
Photometry, vanadate oxidation (Bil)		43.5	0.8	1.9	5
	Cormay	-	-	-	1

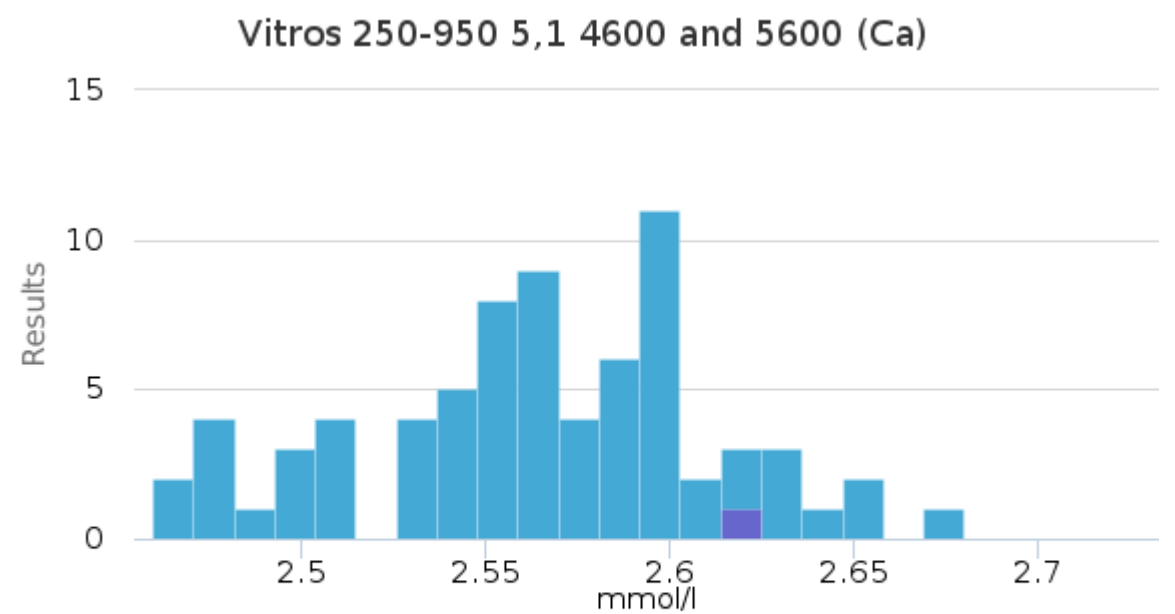
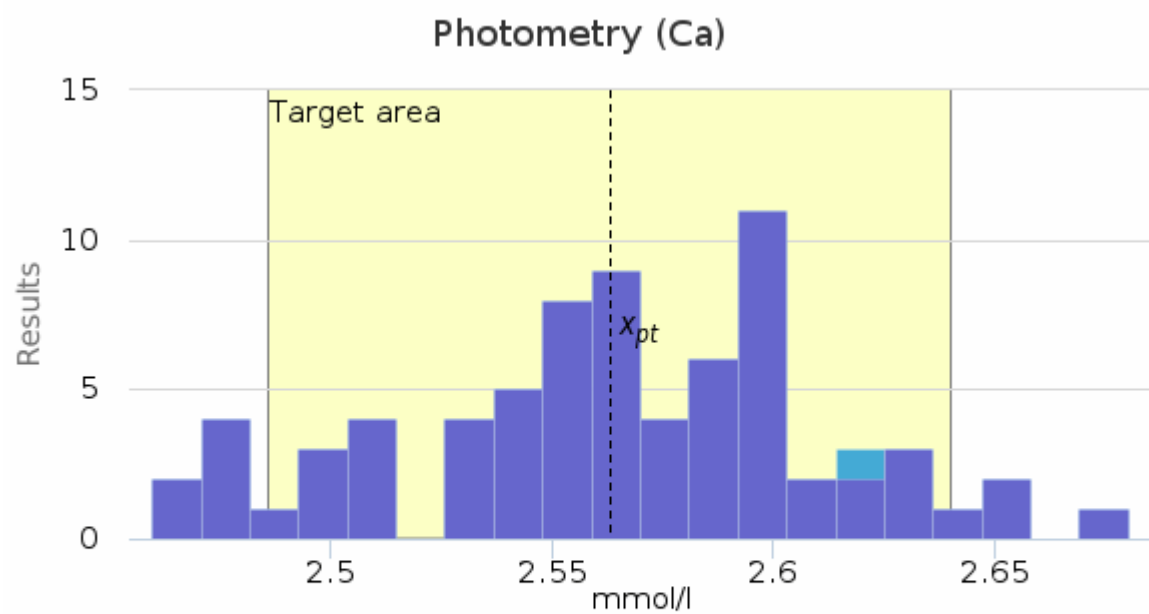
	Siemens Advia	43.5	1.0	2.2	4
Vitros 250-950 5,1 4600 and 5600 (Bil)		-	-	-	1
	Ortho Vitros 5600	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Bil)		36.7	2.9	7.9	92
	Advia 1800	-	-	-	1
	Alinity c	42.7	0.9	2.2	4
	Architect c8000	-	-	-	1
	Architect ci4100	39.7	0.6	1.6	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	41.1	1.1	2.6	5
	AU 680	38.9	1.5	3.8	4
	A25 Automatic Analyzer	36.7	0.4	1.0	3
	BT 3500	-	-	-	1
	cobas c111	33.9	0.6	1.6	3
	cobas c303	-	-	-	1
	cobas c311	34.5	0.7	2.0	5
	cobas c501	34.6	1.4	4.1	25
	cobas c503	34.2	1.3	3.7	4
	cobas c702	34.9	0.2	0.5	5
	Dimension EXL	38.7	0.1	0.3	2
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	36.4	0.7	2.0	5
	Integra 400	-	-	-	1
	Integra 400 Plus	35.9	1.1	3.1	3
	Konelab PRIME 60i	37.8	2.2	5.8	7
	Konelab 20	-	-	-	1
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 60i	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Mindray BS-480	-	-	-	1
Photometry, vanadate oxidation (Bil)		43.5	0.8	1.9	5
	Advia Chemistry XPT	43.5	1.0	2.2	4
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Bil)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Bil)		36.7	2.9	7.9	92
	Acid diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry	37.7	3.1	8.2	8
	Acid diazo, DCA; photometry	36.8	3.2	8.6	20
	Acid diazo, Detergent (Malloy-Evelyn and applications); photometry	36.2	2.9	8.0	47
	Alkaline diazo, Caffeine, Na-benzoate (Jendrassik-Grof applications); photometry	37.3	2.4	6.3	9
	Biliverdin, Na nitrite; photometry	36.7	0.4	1.0	3
	Diazo, DPD, Caffeine, tetrafluoroborate	38.3	3.5	9.1	5
Photometry, vanadate oxidation (Bil)		43.5	0.8	1.9	5
	Vanadate oxidation, biliverdin; photometry	43.5	0.8	1.9	5
Vitros 250-950 5,1 4600 and 5600 (Bil)		-	-	-	1
	Dyphylline, diazonium salt; bichromatic reflectance	-	-	-	1

Serum A | Ca, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Ca)	2.56	2.56	0.05	1.9	<0.01	2.46	2.68	-	72
Vitros 250-950 5,1 4600 and 5600 (Ca)	-	-	-	-	-	2.62	2.62	-	1
All	2.56	2.56	0.05	1.9	<0.01	2.46	2.68	-	73



■ All method groups ■ Photometry (Ca) (x_{pt} : 2.56 | Target area: 2.49-2.64 | Target: $\pm 3\%$)

■ All method groups ■ Vitros 250-950 5,1 4600 and 5600 (Ca)

Serum A | Ca, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Ca)		2.56	0.05	1.9	72
	Abbott Aeroset, Architect	2.49	0.04	1.4	3
	Abbott Alinity	2.55	0.03	1.3	4
	AU instruments	2.59	0.03	1.3	7
	Cormay	-	-	-	1
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche cobas	2.56	0.04	1.7	36
	Roche Cobas Integra	2.54	0.06	2.2	3
	Siemens Advia	2.59	0.06	2.3	4
	Siemens Dimension	2.54	0.01	0.6	2
	Thermo Scientific	2.58	0.04	1.5	10
Vitros 250-950 5,1 4600 and 5600 (Ca)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

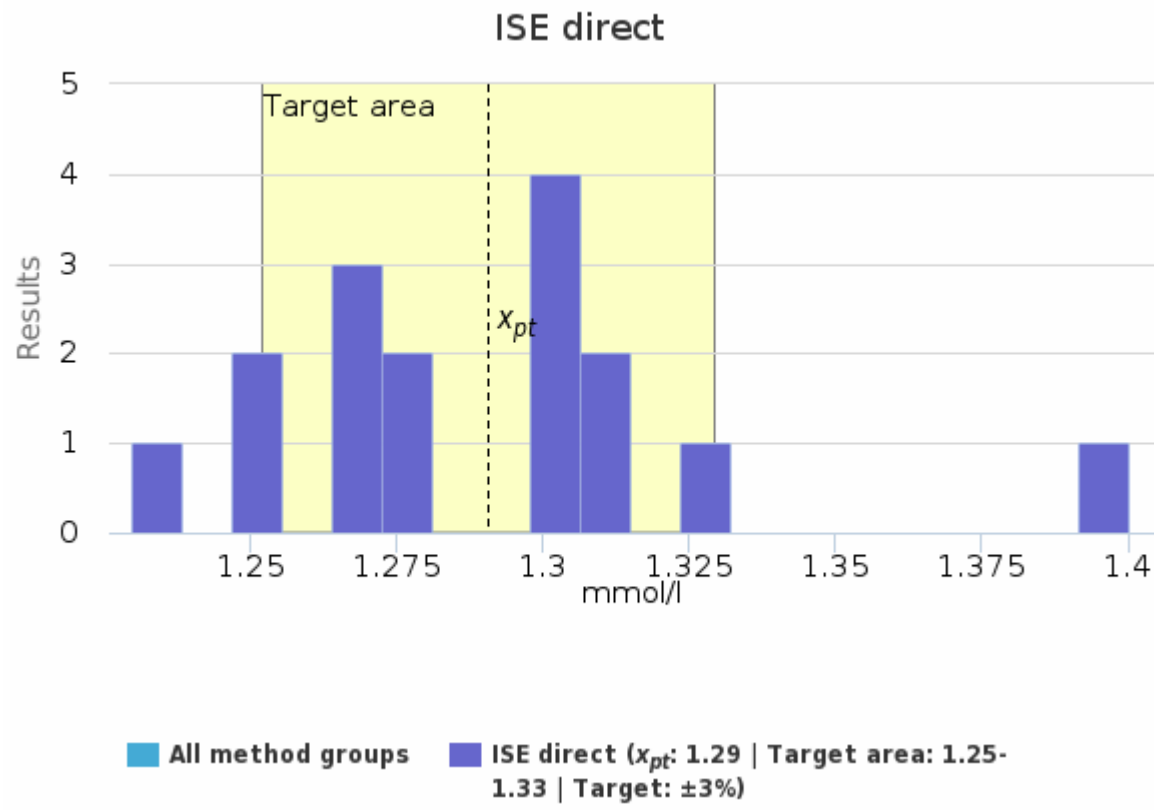
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Ca)		2.56	0.05	1.9	72
	Advia Chemistry XPT	2.58	0.06	2.4	3
	Advia 1800	-	-	-	1
	Alinity c	2.55	0.03	1.3	4
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	2.58	0.02	0.9	4
	AU 680	2.61	0.05	1.8	3
	cobas c303	-	-	-	1
	cobas c311	2.55	0.05	2.1	4
	cobas c501	2.57	0.04	1.6	22
	cobas c503	2.55	0.04	1.7	4
	cobas c702	2.53	0.04	1.8	5
	Dimension EXL	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	2.61	0.06	2.4	2
	Integra 400	-	-	-	1
	Integra 400 Plus	2.54	0.08	3.1	2

	Konelab PRIME 60i	2.57	0.03	1.3	7
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Ca)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Ca)		2.56	0.05	1.9	72
	Arsenazo III; photometry	2.56	0.05	1.9	28
	o-Cresolphthalein (OCP); photometry	2.57	0.07	2.6	11
	5-nitro-5'-methyl-BAPTA (NM-BAPTA)	2.56	0.04	1.6	33
Vitros 250-950 5,1 4600 and 5600 (Ca)		-	-	-	1
	Arsenazo III; reflectance	-	-	-	1

Serum A | Ca-Ion, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	1.29	1.29	0.04	3.0	<0.01	1.23	1.40	-	16
All	1.29	1.29	0.04	3.0	<0.01	1.23	1.40	-	16



Serum A | Ca-Ion, mmol/l, Additional summary

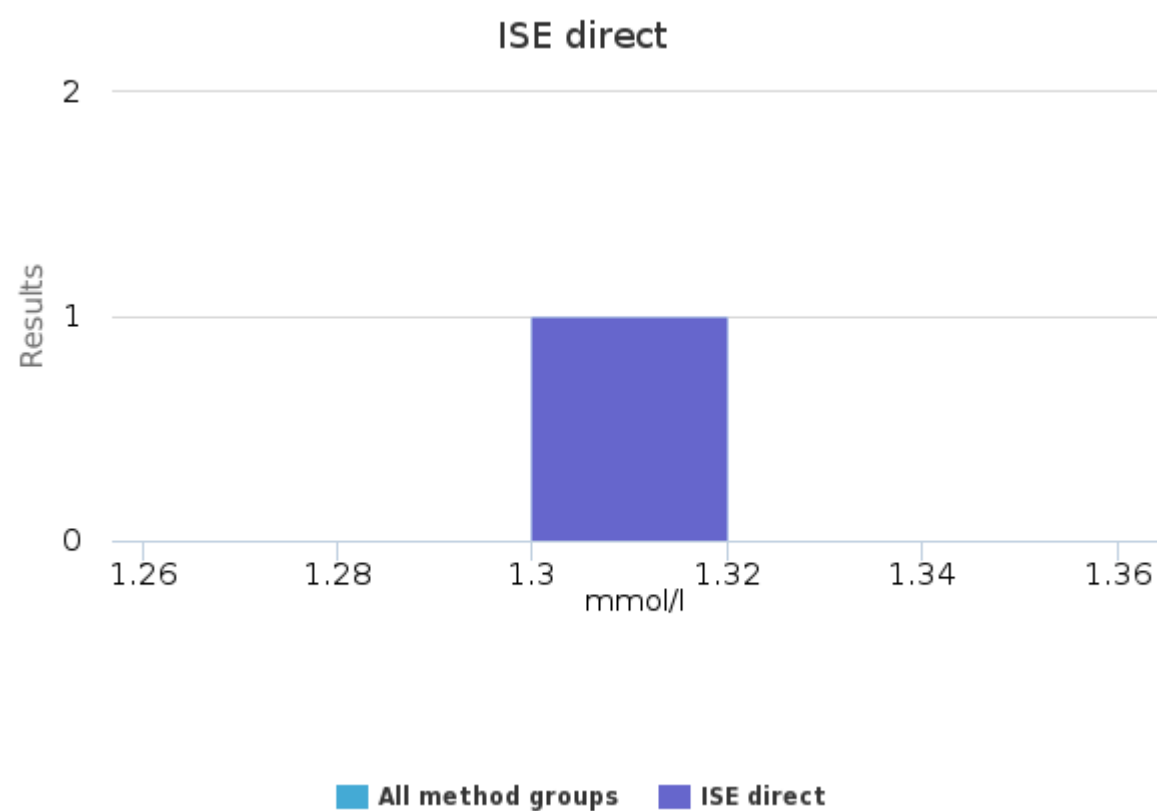
Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		1.29	0.04	3.0	16
	Blood-gas instruments	-	-	-	1
	Easystat	-	-	-	1
	Nova Biomedical electrolyte analysers	1.25	0.03	2.3	2
	Radiometer blood gas analyzer	1.28	0.02	1.8	10
	Roche blood gas and electrolyte analysers	1.32	0.02	1.5	2

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		1.29	0.04	3.0	16
	ABL 800 Flex	1.30	0.02	1.6	2
	ABL 825	-	-	-	1
	ABL 835	1.25	<0.01	<0.1	2
	ABL 835 Flex	-	-	-	1
	ABL 90 FLEX	1.27	<0.01	<0.1	2
	ABL 90 FLEX PLUS	1.29	0.01	1.1	2
	AVL 9180	-	-	-	1
	EasyStat	-	-	-	1
	Gem Premier 3500	-	-	-	1
	Omni S / cobas b221	-	-	-	1
	Stat Profile Prime Electrolyte Analyzer	1.25	0.03	2.3	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		1.29	0.04	3.0	16
	Direct potentiometry	1.29	0.04	3.0	16

Serum A | Ca-ion, pH7.4, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	-	-	-	-	-	1.31	1.31	-	1
All	-	-	-	-	-	1.31	1.31	-	1



Serum A | Ca-ion, pH7.4, mmol/l, Additional summary

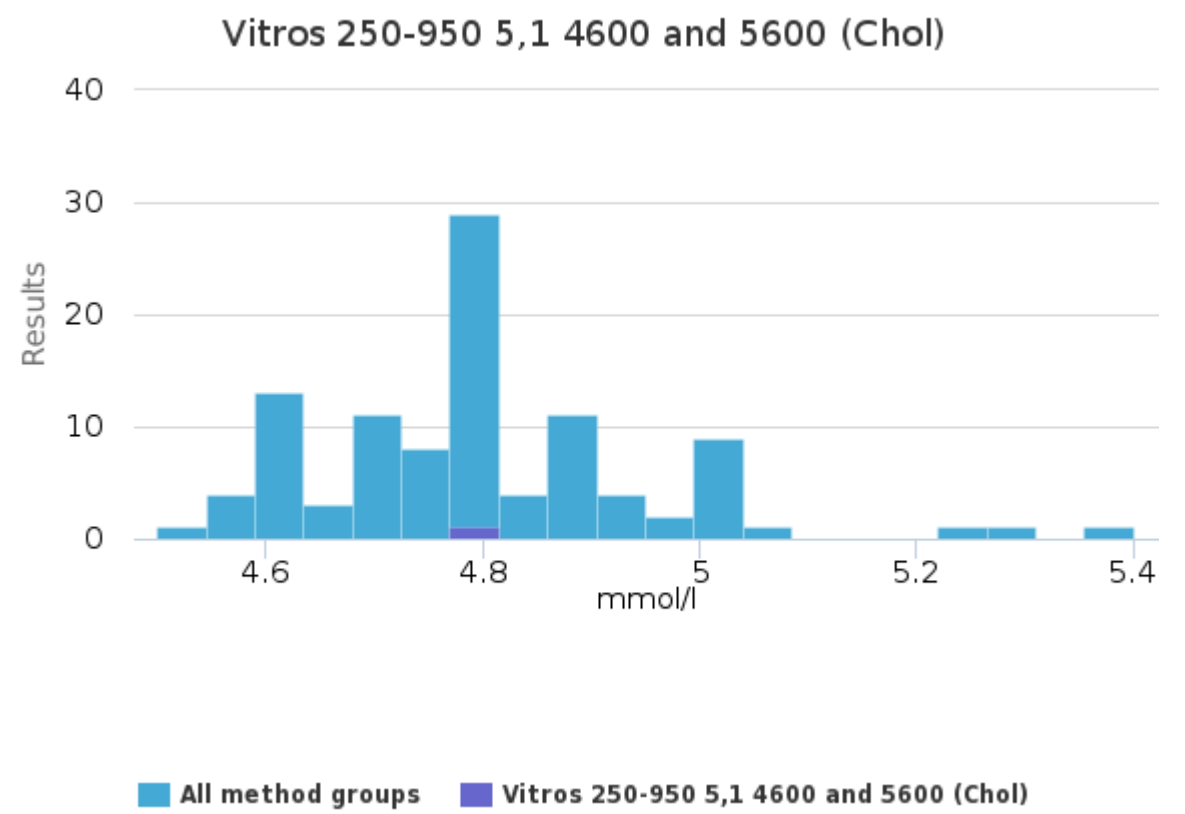
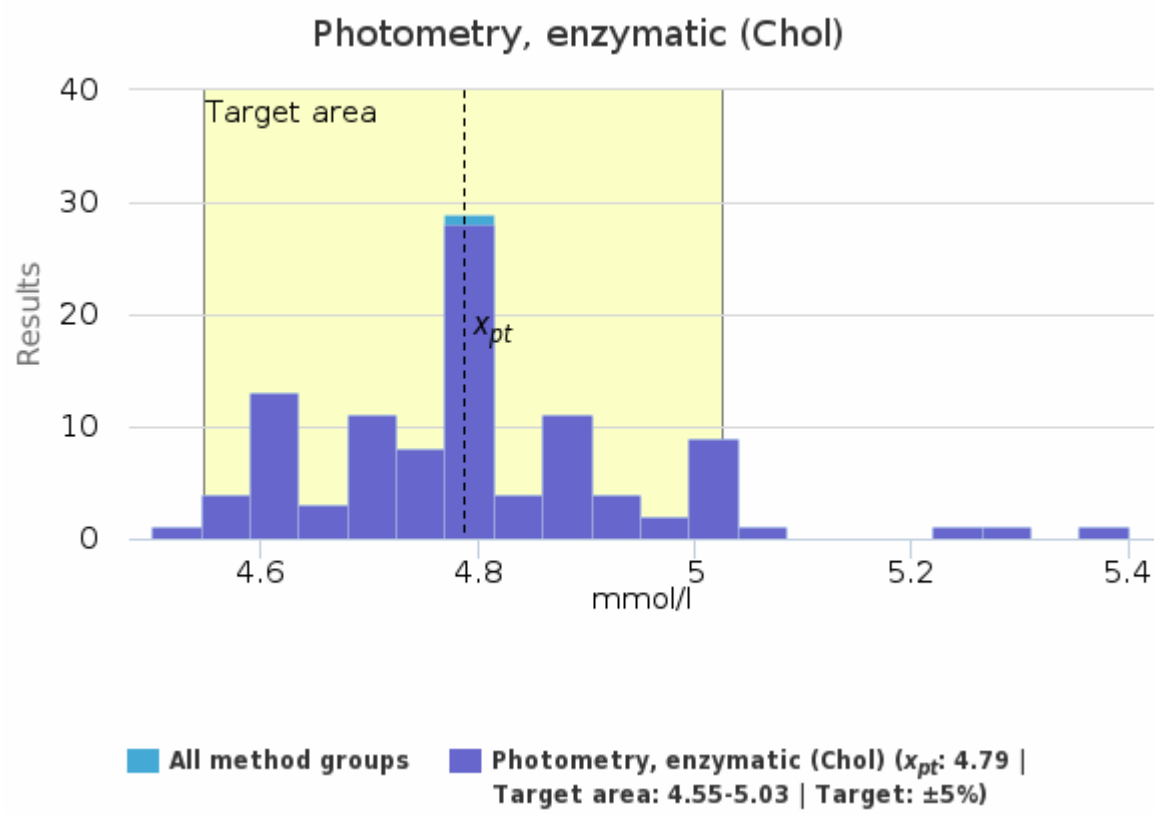
Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	Radiometer blood gas analyzer	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	ABL 90 FLEX PLUS	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	Direct potentiometry	-	-	-	1

Serum A | Chol, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Chol)	4.79	4.80	0.14	2.9	0.01	4.50	5.25	2	102
Vitros 250-950 5,1 4600 and 5600 (Chol)	-	-	-	-	-	4.80	4.80	-	1
All	4.79	4.80	0.14	2.9	0.01	4.50	5.25	2	103



Serum A | Chol, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Chol)		4.79	0.14	2.9	102
	Abbott Aeroset, Architect	4.72	0.11	2.3	5
	Abbott Alinity	4.69	0.05	1.1	4
	AU instruments	4.99	0.13	2.7	9
	BioSystems	5.23	0.21	4.0	3
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Diasys	-	-	-	1
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	4.74	0.11	2.4	34
	Roche Cobas Integra	4.72	0.24	5.1	3
	Siemens Advia	4.93	0.08	1.7	4
	Siemens Dimension	4.73	0.11	2.3	2
	Thermo Scientific	4.79	0.11	2.4	32
Vitros 250-950 5,1 4600 and 5600 (Chol)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

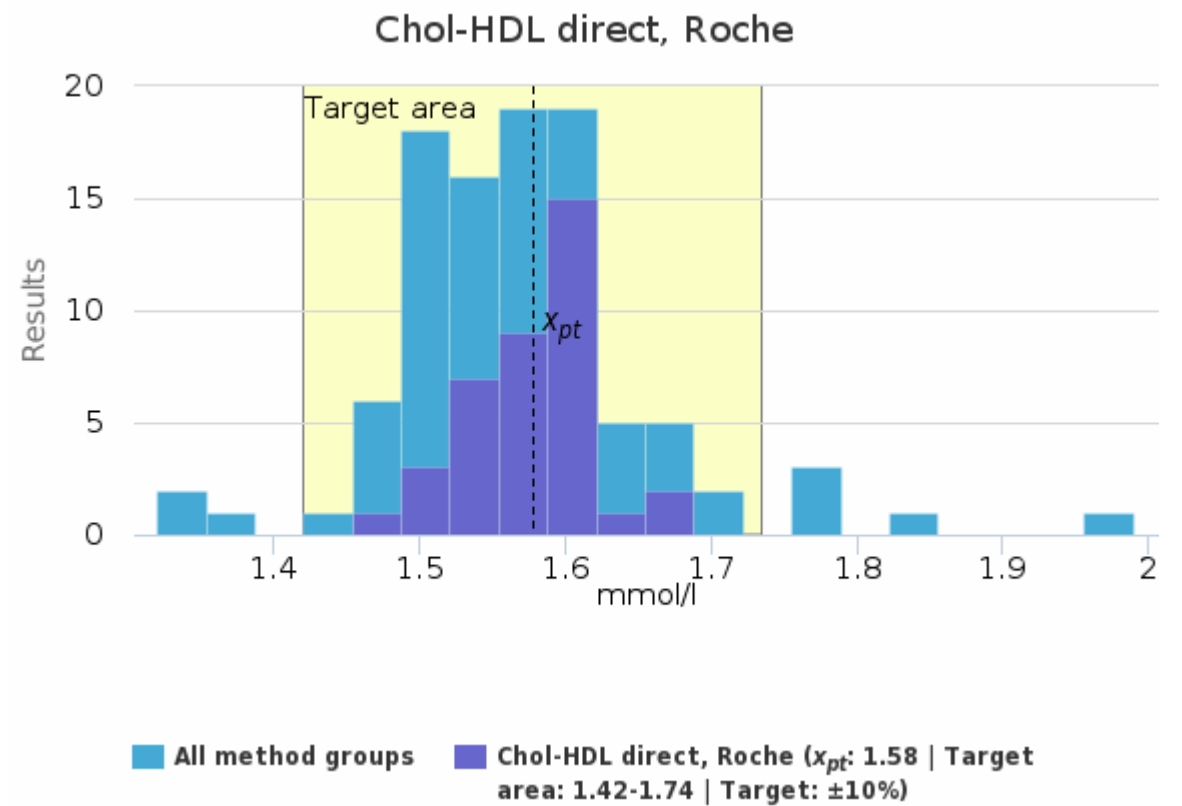
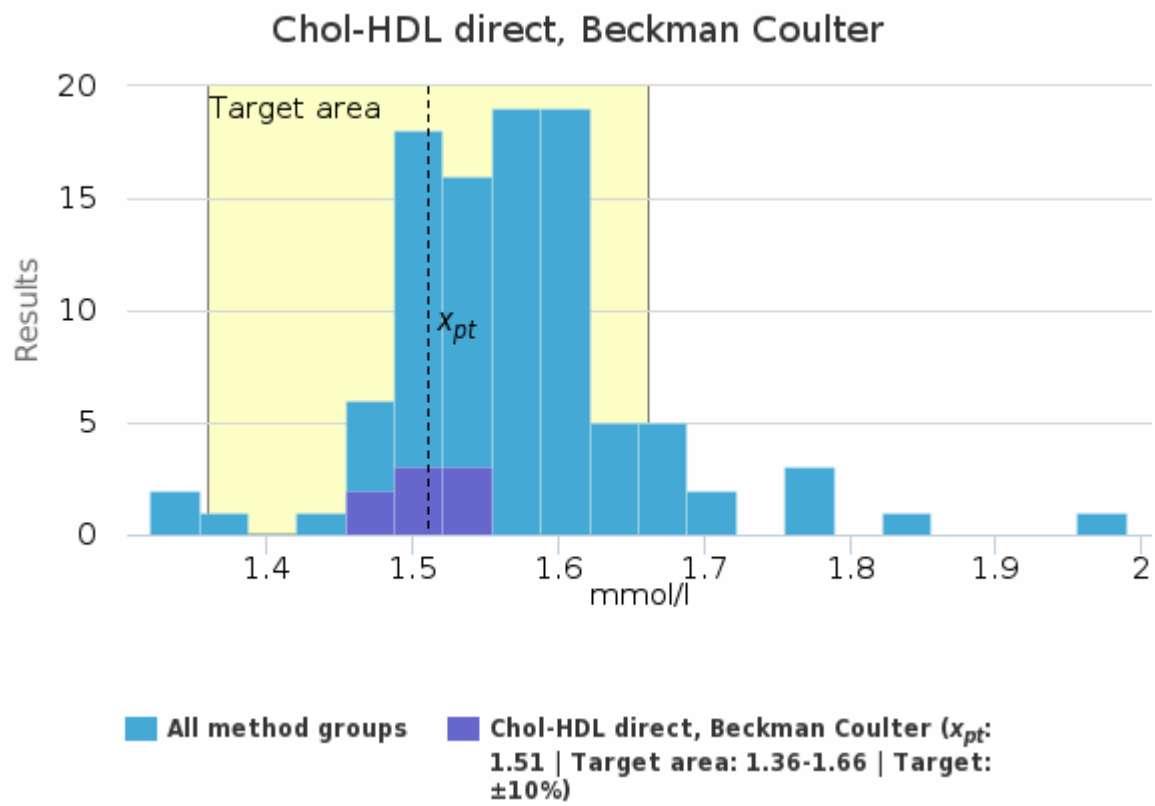
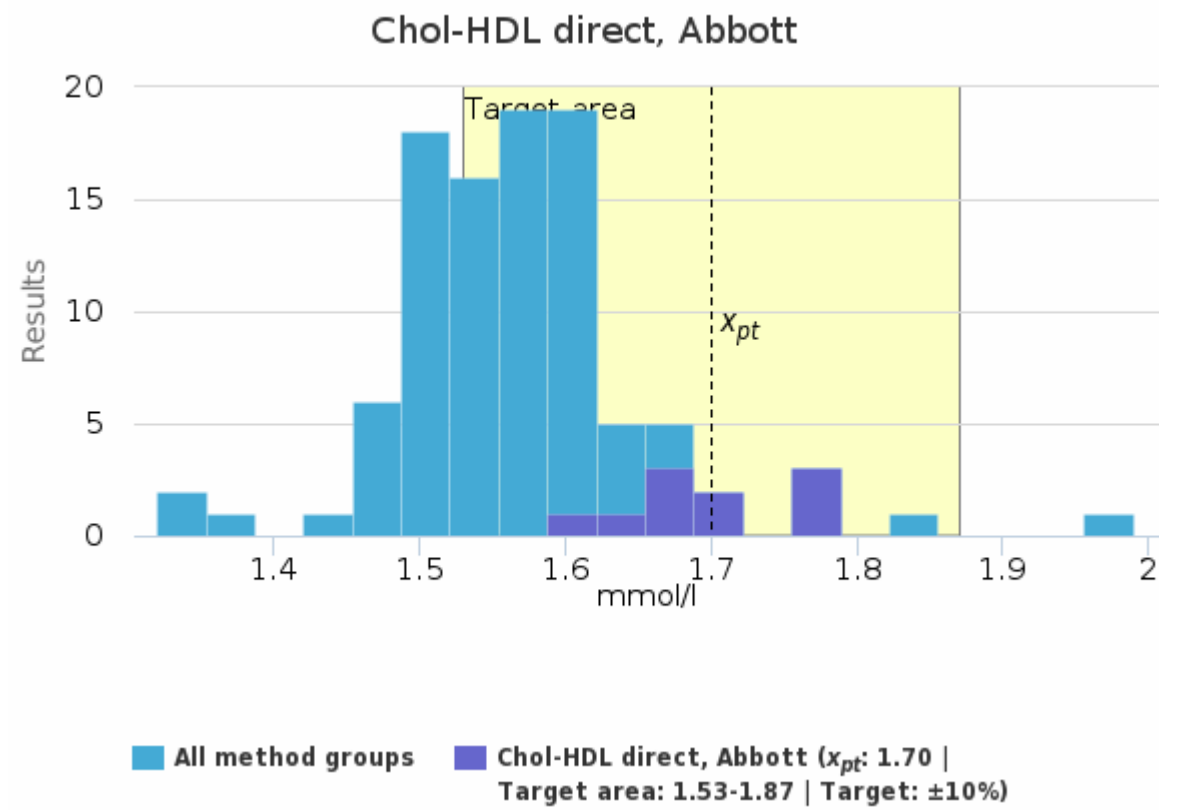
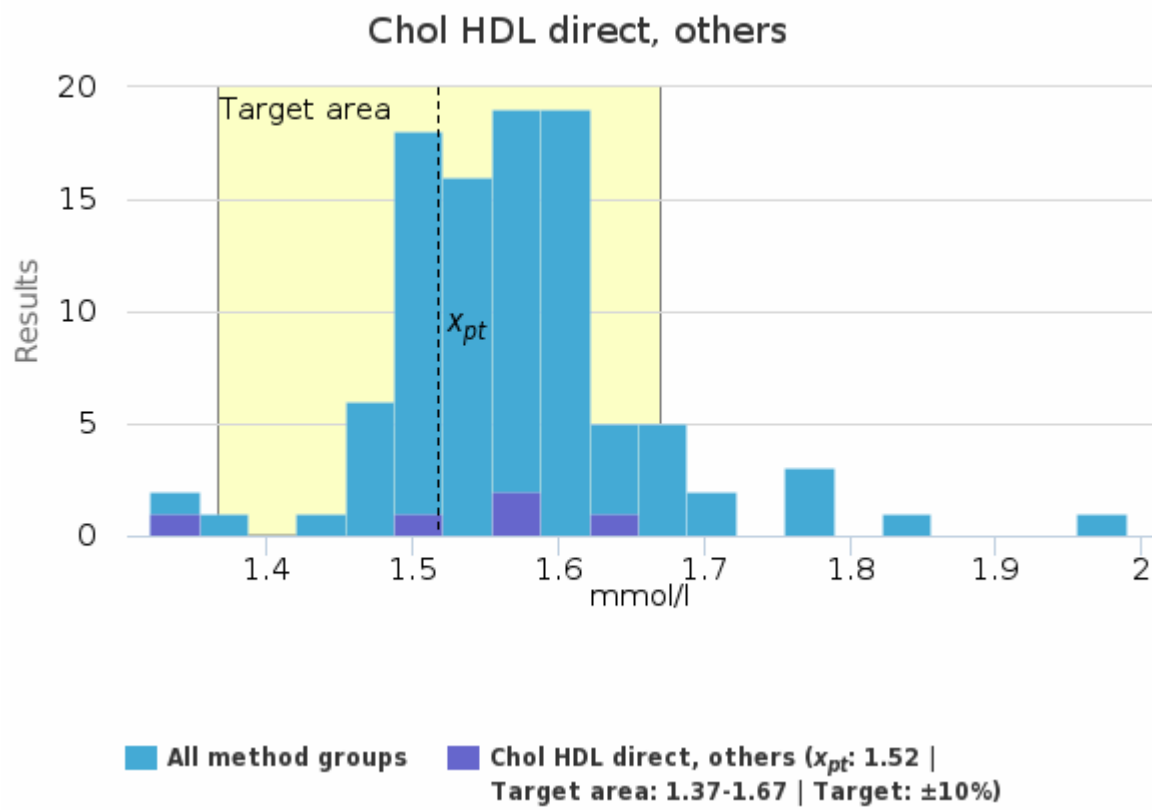
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Chol)		4.79	0.14	2.9	102
	Advia Chemistry XPT	4.93	0.08	1.7	4
	Advia 1800	-	-	-	1
	Alinity c	4.69	0.05	1.1	4
	Architect c8000	-	-	-	1
	Architect ci4100	4.81	0.01	0.3	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	5.01	0.15	3.0	5
	AU 680	4.97	0.13	2.5	4
	A25 Automatic Analyzer	5.23	0.21	4.0	3
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	4.74	0.05	1.1	4
	cobas c501	4.74	0.13	2.8	20
	cobas c503	4.74	0.11	2.2	5

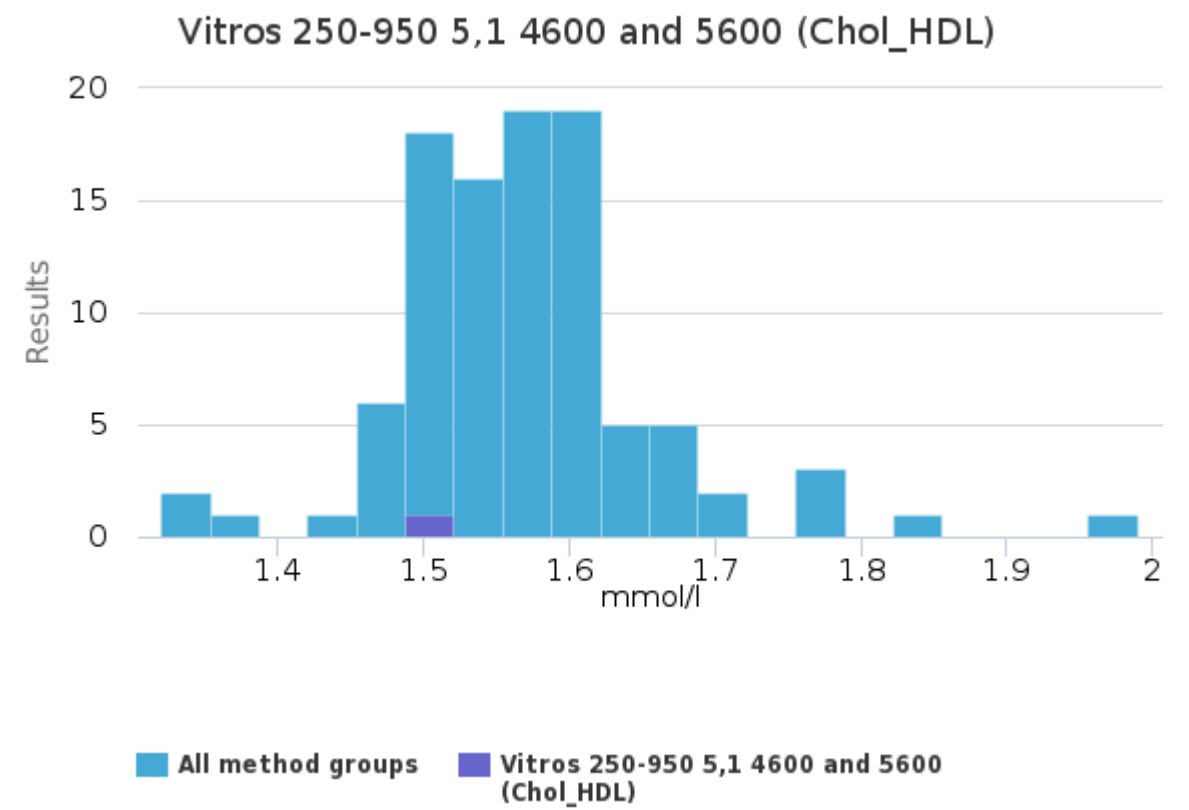
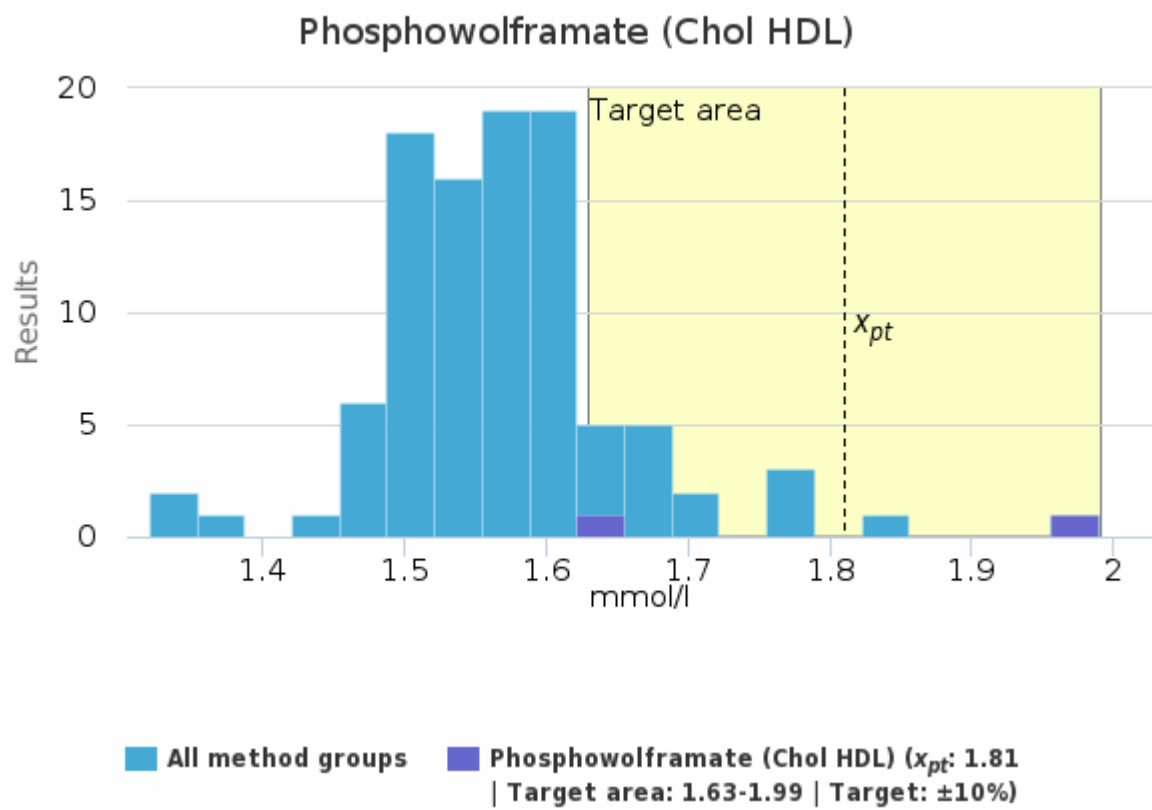
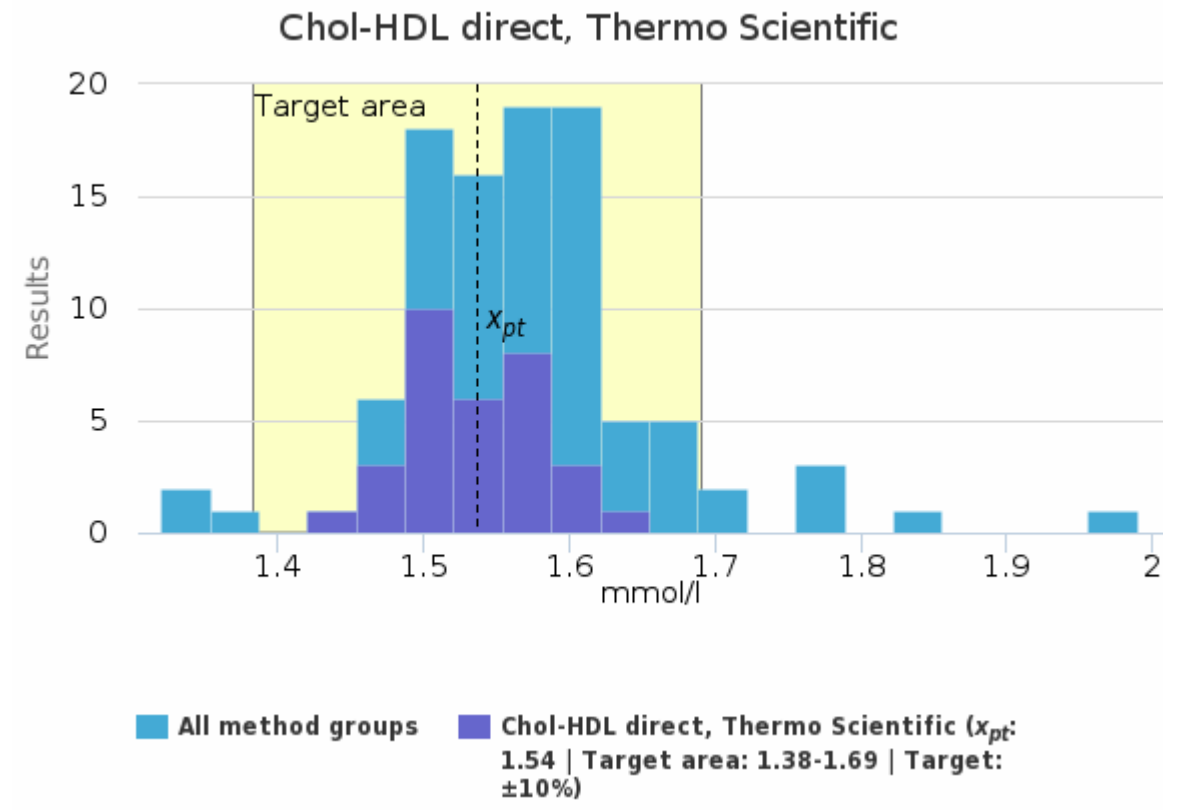
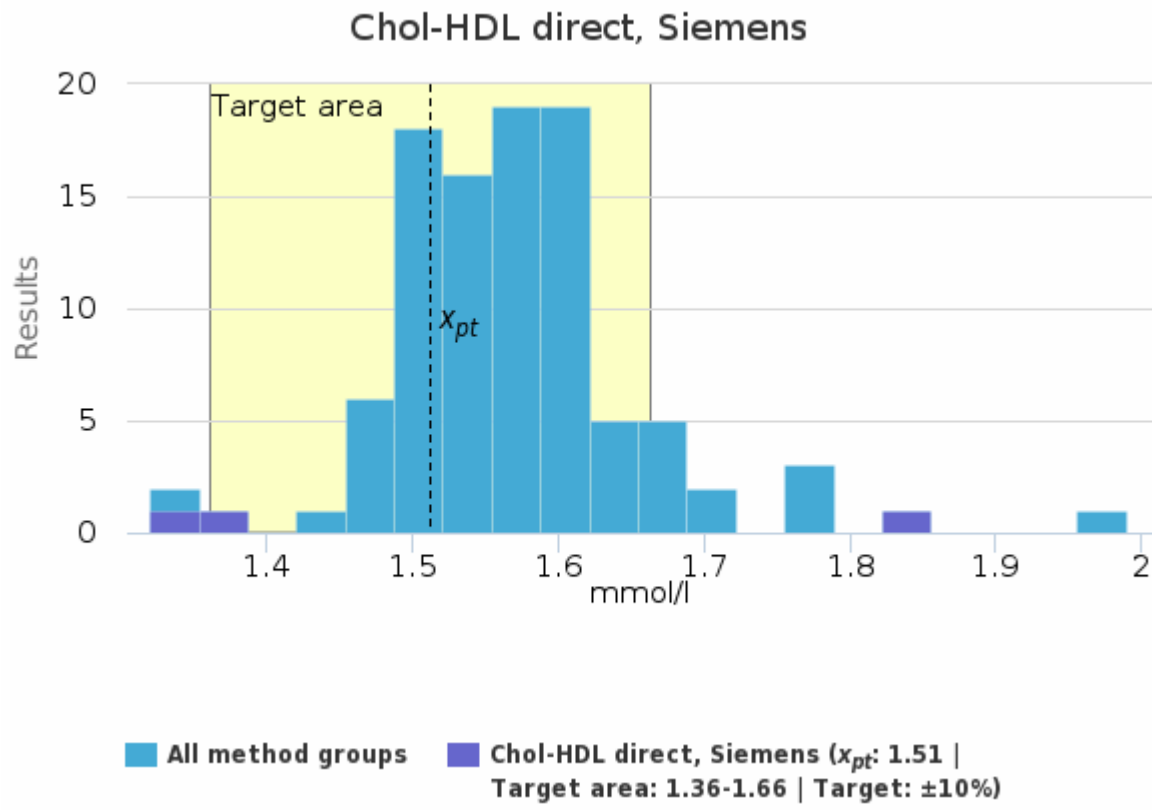
	cobas c702	4.79	0.11	2.3	5
	Dimension EXL	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko	4.75	0.21	4.5	2
	Indiko Plus	4.76	0.13	2.8	9
	Integra 400	-	-	-	1
	Integra 400 Plus	4.79	0.30	6.4	2
	Konelab Prime 30	4.80	0.28	5.9	2
	Konelab PRIME 60i	4.78	0.07	1.5	8
	Konelab 20	-	-	-	1
	Konelab 20i	4.87	0.08	1.7	6
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Chol)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Chol)		4.79	0.14	2.9	102
	Cholesterol esterase, cholesterol oxidase, H2O2, peroxidase / chromogen; photometry	4.80	0.16	3.3	102
Vitros 250-950 5,1 4600 and 5600 (Chol)		-	-	-	1
	Cholesterol esterase, cholesterol oxidase, H2O2, peroxidase / chromogen; reflectance	-	-	-	1

Serum A | Chol-HDL, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Chol HDL direct, others	1.52	1.56	0.11	7.3	0.05	1.34	1.63	-	5
Chol-HDL direct, Abbott	1.70	1.70	0.06	3.7	0.02	1.59	1.78	-	10
Chol-HDL direct, Beckman Coulter	1.51	1.51	0.02	1.5	<0.01	1.48	1.53	-	8
Chol-HDL direct, Roche	1.58	1.58	0.04	2.8	<0.01	1.48	1.69	-	38
Chol-HDL direct, Siemens	1.51	1.37	0.29	19.2	0.17	1.32	1.85	-	3
Chol-HDL direct, Thermo Scientific	1.54	1.54	0.05	3.1	<0.01	1.45	1.64	-	32
Phosphowolframte (Chol HDL)	1.81	1.81	0.25	14.1	0.18	1.63	1.99	-	2
Vitros 250-950 5,1 4600 and 5600 (Chol_HDL)	-	-	-	-	-	1.50	1.50	-	1
All	1.56	1.56	0.08	5.0	<0.01	1.32	1.78	2	99





Serum A | Chol-HDL, mmol/l, Additional summary

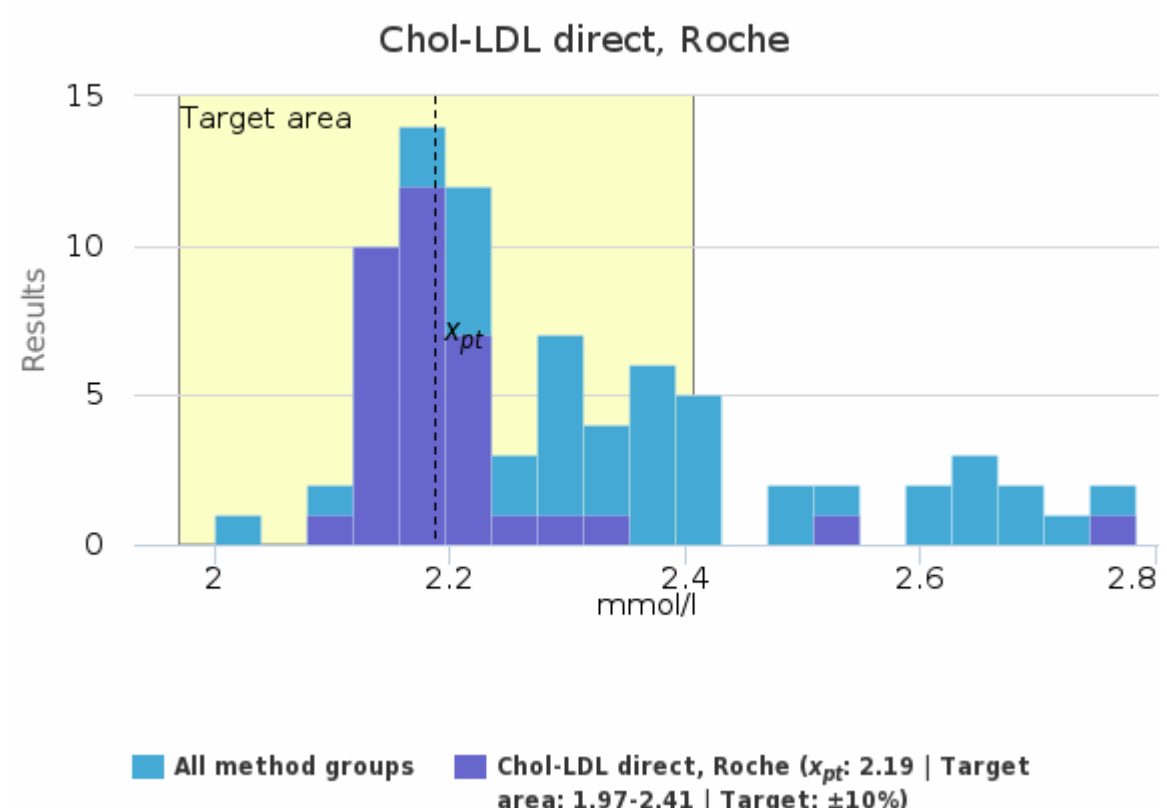
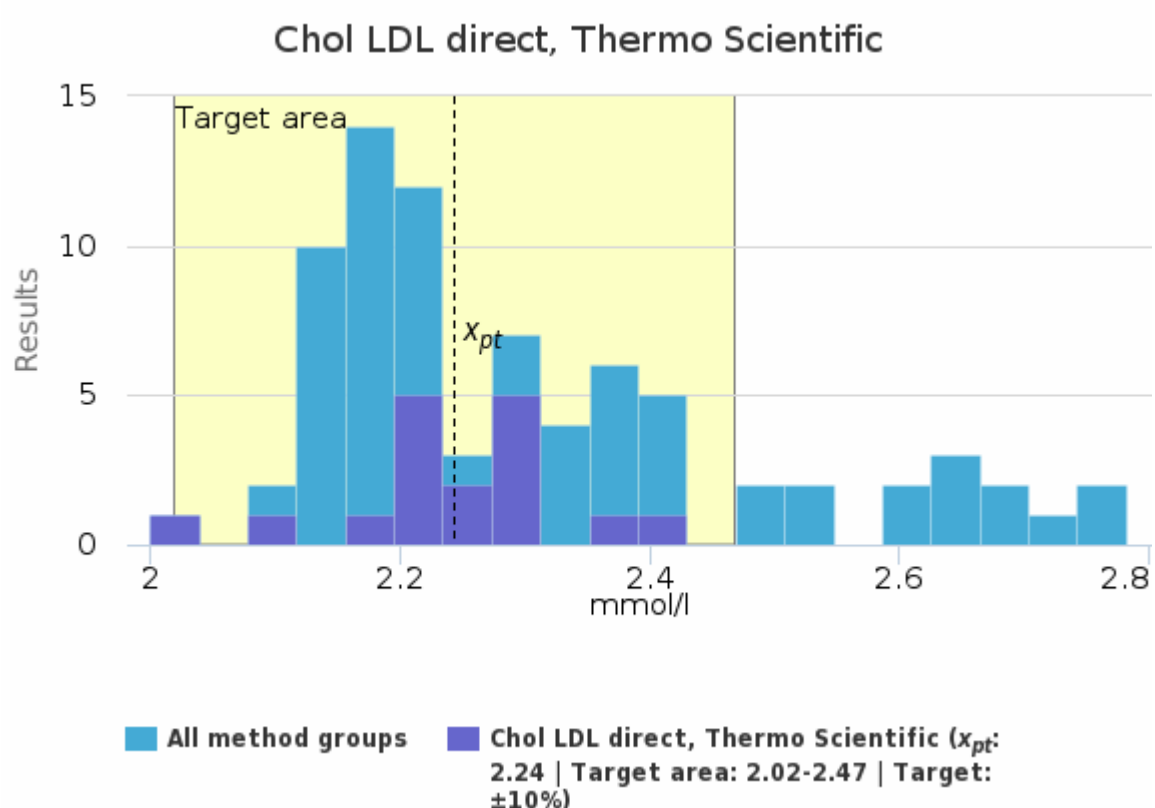
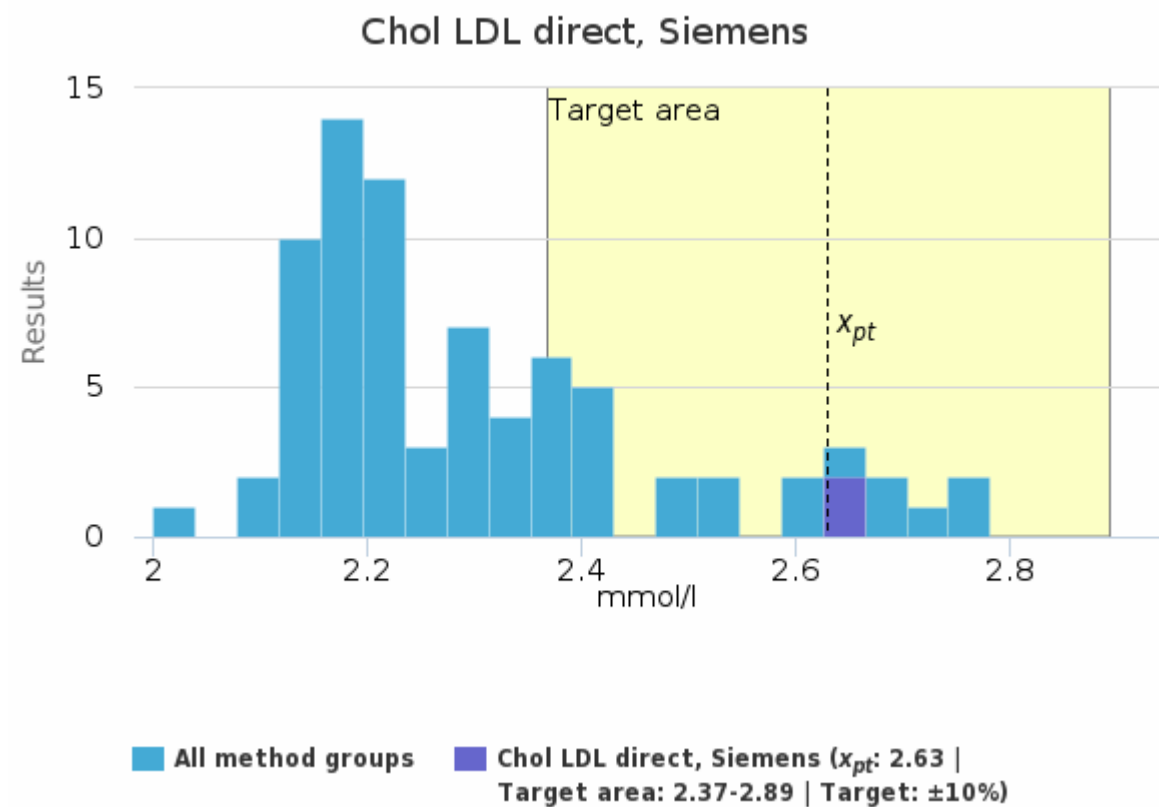
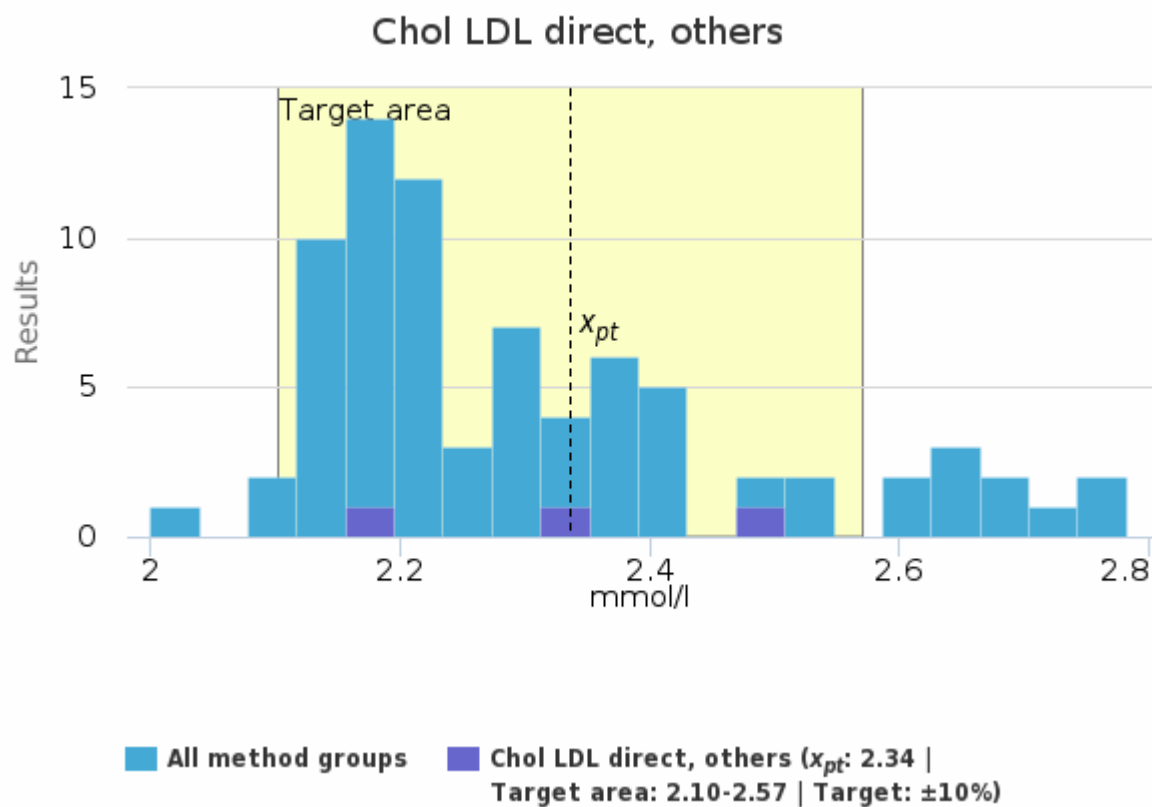
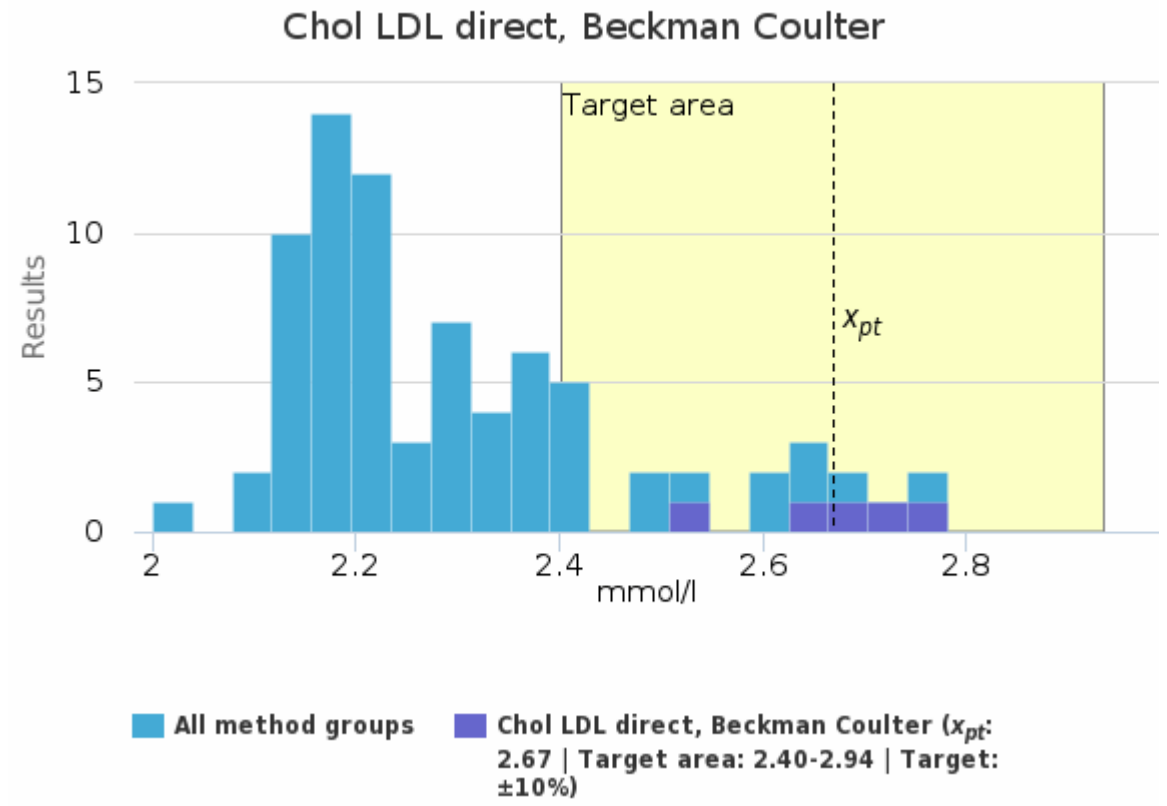
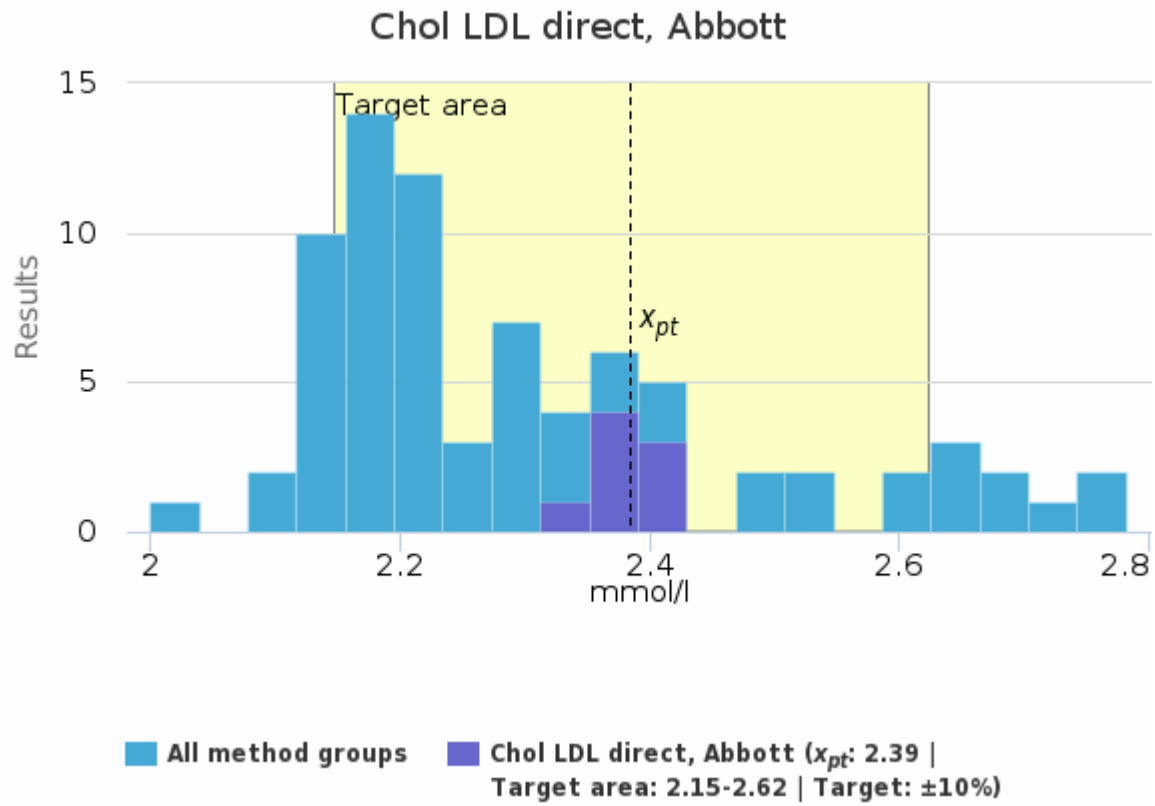
Methodics	Method	x_{pt}	sd	CV%	n
Chol HDL direct, others		1.52	0.11	7.3	5
	Biotechnica	-	-	-	1
	Diasys	1.49	0.21	13.8	2
	Erba	-	-	-	1
	Mindray	-	-	-	1
Chol-HDL direct, Abbott		1.70	0.06	3.7	10
	Abbott Aeroset, Architect	1.65	0.04	2.1	5
	Abbott Alinity	1.74	0.04	2.2	4
	Abbott Architect	-	-	-	1
Chol-HDL direct, Beckman Coulter		1.51	0.02	1.5	8
	AU instruments	1.51	0.02	1.5	8
Chol-HDL direct, Roche		1.58	0.04	2.8	38
	Roche	-	-	-	1
	Roche cobas	1.57	0.04	2.8	34
Chol-HDL direct, Siemens		1.61	0.05	3.1	3
	Siemens Advia	1.51	0.29	19.2	3
	Siemens Dimension	1.35	0.04	2.6	2
Chol-HDL direct, Thermo Scientific		-	-	-	1
	Thermo Scientific	1.54	0.05	3.1	32
	Thermo Scientific HDL Cholesterol Plus	1.53	0.03	2.1	8
Phosphowolframate (Chol HDL)		1.54	0.05	3.3	24
	BioSystems	1.81	0.25	14.1	2
Vitros 250-950 5,1 4600 and 5600 (Chol_HDL)		1.81	0.25	14.1	2
	Ortho Vitros 250-950 and 5,1	-	-	-	1

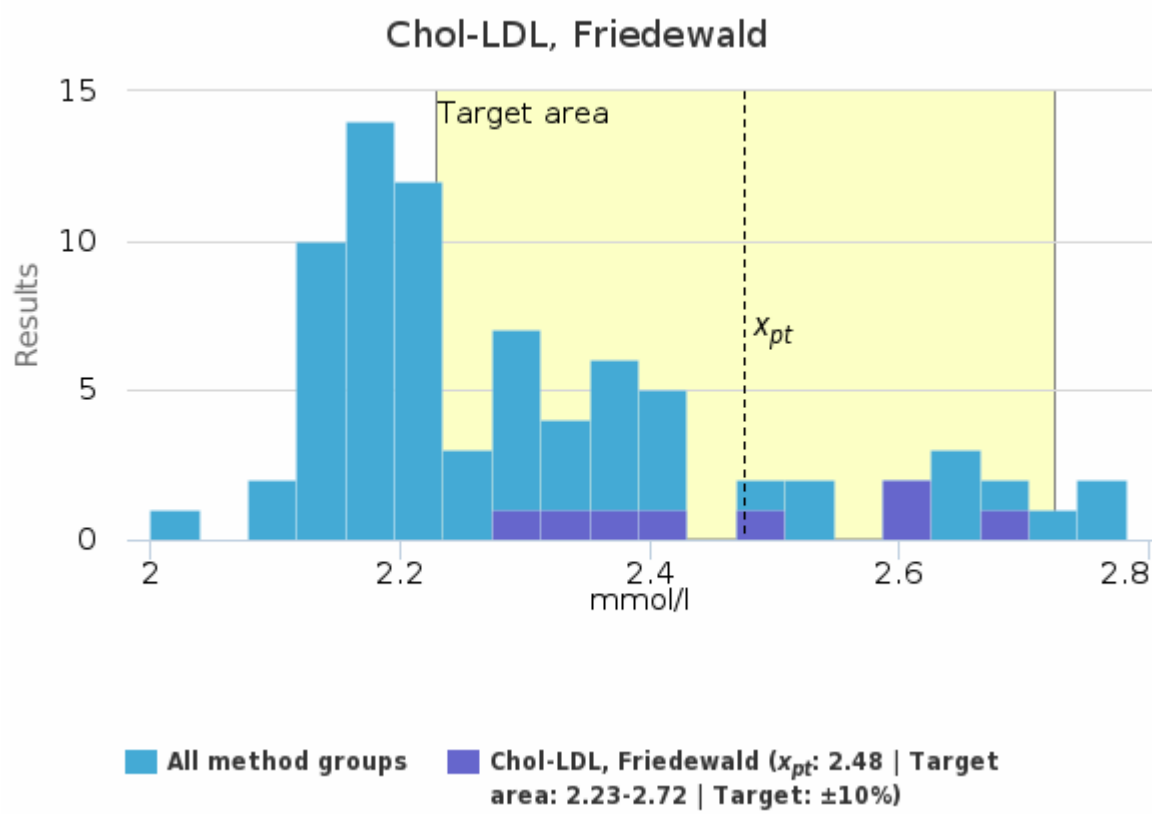
Methodics	Instrument	x_{pt}	sd	CV%	n
Chol HDL direct, others		1.52	0.11	7.3	5
	Advia 1800	-	-	-	1
	BT 3500	-	-	-	1
	Erba XL 100	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Chol-HDL direct, Abbott		1.70	0.06	3.7	10
	Alinity c	1.74	0.04	2.2	4
	Architect c8000	-	-	-	1
	Architect ci4100	1.64	0.06	3.9	2
	Architect ci8200	1.72	0.09	5.0	2
	Architect c4000	-	-	-	1
Chol-HDL direct, Beckman Coulter		1.51	0.02	1.5	8
	AU 480	1.52	0.02	1.6	4
	AU 680	1.51	0.02	1.4	4
Chol-HDL direct, Roche		1.58	0.04	2.8	38
	cobas c303	-	-	-	1
	cobas c311	1.57	0.04	2.6	4
	cobas c501	1.59	0.04	2.3	20
	cobas c503	1.56	0.04	2.5	5
	cobas c702	1.52	0.04	2.8	5
	Integra 400	-	-	-	1
	Integra 400 Plus	1.61	0.07	4.4	2
Chol-HDL direct, Siemens		1.51	0.29	19.2	3
	Advia Chemistry XPT	1.35	0.04	2.6	2
	Dimension EXL 200	-	-	-	1
Chol-HDL direct, Thermo Scientific		1.54	0.05	3.1	32
	Indiko	1.49	0.04	2.4	2
	Indiko Plus	1.55	0.07	4.4	9
	Konelab Prime 30	1.55	0.05	3.2	2
	Konelab PRIME 60i	1.53	0.04	2.4	8
	Konelab 20	-	-	-	1
	Konelab 20i	1.54	0.04	2.3	6
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
Phosphowolframate (Chol HDL)		1.81	0.25	14.1	2
	A25 Automatic Analyzer	1.81	0.25	14.1	2
Vitros 250-950 5,1 4600 and 5600 (Chol_HDL)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Chol HDL direct, others		1.52	0.11	7.3	5
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	1.52	0.11	7.3	5
Chol-HDL direct, Abbott		1.70	0.06	3.7	10
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	1.70	0.06	3.7	10
Chol-HDL direct, Beckman Coulter		1.51	0.02	1.5	8
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	1.51	0.02	1.5	8
Chol-HDL direct, Roche		1.58	0.04	2.8	38
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	1.58	0.04	2.8	38
Chol-HDL direct, Siemens		1.51	0.29	19.2	3
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	1.51	0.29	19.2	3
Chol-HDL direct, Thermo Scientific		1.54	0.05	3.1	32
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	1.54	0.05	3.1	32
Phosphowolframate (Chol HDL)		1.81	0.25	14.1	2
	Phosphotungstate/Mg ⁺⁺ precipitation; Cholesterol determination of the supernatant	1.81	0.25	14.1	2
Vitros 250-950 5,1 4600 and 5600 (Chol_HDL)		-	-	-	1
	Direct measurement of HDL-cholesterol after decomposition of cholesterol from other lipoproteines	-	-	-	1

Serum A | Chol-LDL, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Chol LDL direct, Abbott	2.39	2.39	0.02	0.9	<0.01	2.34	2.41	-	8
Chol LDL direct, Beckman Coulter	2.67	2.70	0.10	3.7	0.04	2.52	2.77	-	5
Chol LDL direct, others	2.34	2.33	0.16	6.9	0.09	2.18	2.50	-	3
Chol LDL direct, Siemens	2.63	2.63	<0.01	<0.1	<0.01	2.63	2.63	-	2
Chol LDL direct, Thermo Scientific	2.24	2.27	0.10	4.4	0.02	2.00	2.40	-	17
Chol-LDL direct, Roche	2.19	2.18	0.08	3.7	0.01	2.09	2.54	1	35
Chol-LDL, Friedewald	2.48	2.44	0.15	6.0	0.05	2.30	2.70	-	8
All	2.31	2.24	0.18	7.9	0.02	2.00	2.78	-	78





Serum A | Chol-LDL, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Chol LDL direct, Abbott		2.39	0.02	0.9	8
	Abbott Aeroset, Architect	2.39	0.01	0.5	4
	Abbott Alinity	2.38	0.03	1.2	4
Chol LDL direct, Beckman Coulter		2.67	0.10	3.7	5
	AU instruments	2.67	0.10	3.7	5
Chol LDL direct, others		2.34	0.16	6.9	3
	Cormay	2.26	0.11	4.7	2
	Diasys	-	-	-	1
Chol LDL direct, Siemens		2.63	<0.01	<0.1	2
	Siemens Advia	2.63	<0.01	<0.1	2
Chol LDL direct, Thermo Scientific		2.24	0.10	4.4	17
	Thermo Scientific	2.24	0.10	4.4	17
Chol-LDL direct, Roche		2.19	0.08	3.7	35
	Roche cobas	2.21	0.13	6.0	33
	Roche Cobas Integra	2.18	<0.01	0.3	2
		-	-	-	1
Chol-LDL, Friedewald		2.48	0.15	6.0	8
	Roche cobas	2.44	0.16	6.7	3
	Roche Cobas Integra	-	-	-	1
	Siemens Advia	-	-	-	1
	Thermo Scientific	2.59	0.11	4.2	3

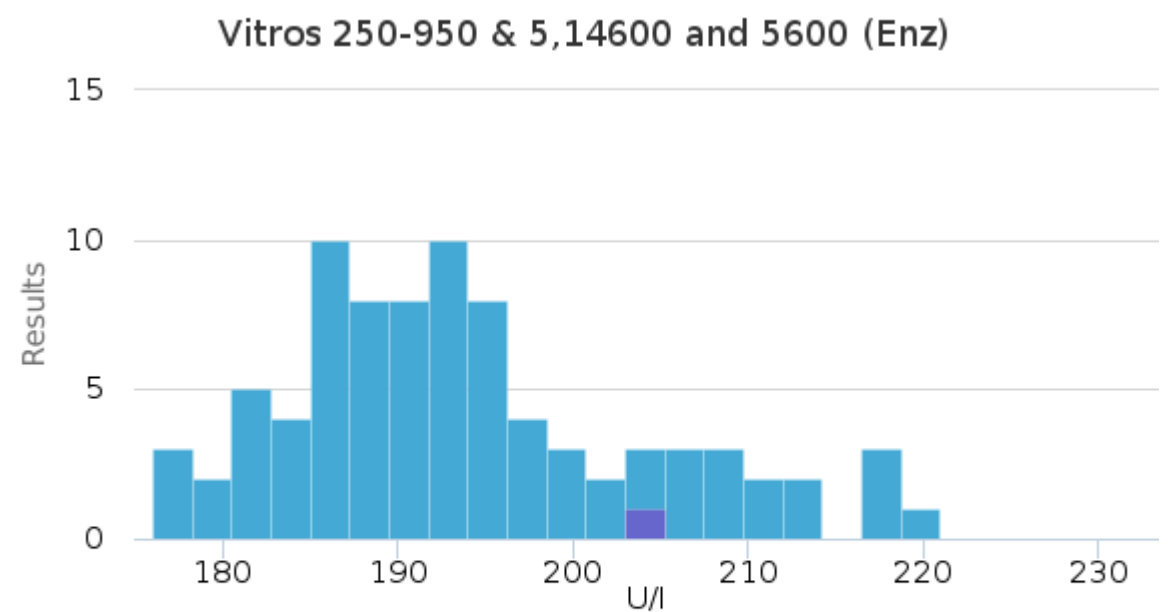
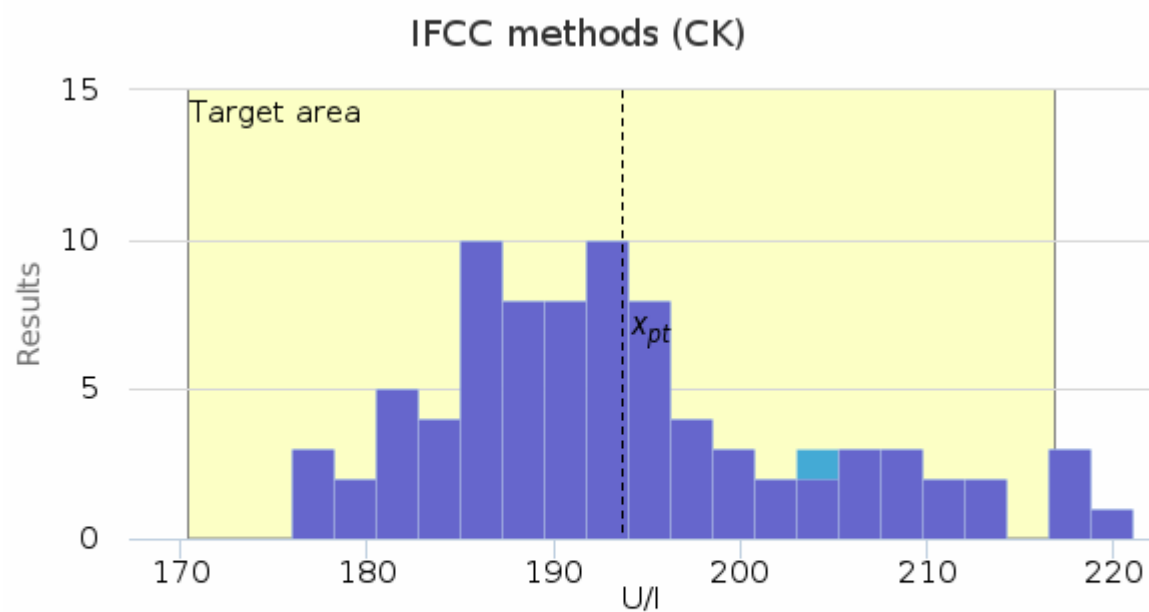
Methodics	Instrument	x_{pt}	sd	CV%	n
Chol LDL direct, Abbott		2.39	0.02	0.9	8
	Alinity c	2.38	0.03	1.2	4
	Architect c8000	-	-	-	1
	Architect ci4100	2.39	<0.01	<0.1	2
	Architect c4000	-	-	-	1
Chol LDL direct, Beckman Coulter		2.67	0.10	3.7	5
	AU 480	-	-	-	1
	AU 680	2.68	0.11	4.1	4
Chol LDL direct, others		2.34	0.16	6.9	3
	A25 Automatic Analyzer	2.26	0.11	4.7	2
	Sapphire 400	-	-	-	1
Chol LDL direct, Siemens		2.63	<0.01	<0.1	2
	Advia Chemistry XPT	2.63	<0.01	<0.1	2
Chol LDL direct, Thermo Scientific		2.24	0.10	4.4	17
	Indiko Plus	2.29	0.06	2.5	6
	Konelab PRIME 60i	2.25	0.06	2.7	4
	Konelab 20	-	-	-	1
	Konelab 20i	2.25	0.13	5.7	4
	Konelab 20XT	-	-	-	1
	Konelab 60i	-	-	-	1
Chol-LDL direct, Roche		2.19	0.08	3.7	35

	cobas c303	-	-	-	1
	cobas c311	2.16	0.03	1.6	3
	cobas c501	2.21	0.16	7.3	21
	cobas c503	2.24	0.06	2.8	6
	cobas c702	2.16	0.02	1.0	2
	Integra 400	-	-	-	1
	Integra 400 Plus	-	-	-	1
Chol-LDL, Friedewald		2.48	0.15	6.0	8
	Advia 1800	-	-	-	1
	cobas c501	-	-	-	1
	cobas c702	2.51	0.16	6.2	2
	Indiko Plus	-	-	-	1
	Integra 400 Plus	-	-	-	1
	Konelab PRIME 60i	2.65	0.07	2.7	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Chol LDL direct, Abbott		2.39	0.02	0.9	8
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.39	0.02	0.9	8
Chol LDL direct, Beckman Coulter		2.67	0.10	3.7	5
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.67	0.10	3.7	5
Chol LDL direct, others		2.34	0.16	6.9	3
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.34	0.16	6.9	3
Chol LDL direct, Siemens		2.63	<0.01	<0.1	2
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.63	<0.01	<0.1	2
Chol LDL direct, Thermo Scientific		2.24	0.10	4.4	17
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.24	0.10	4.4	17
Chol-LDL direct, Roche		2.19	0.08	3.7	35
	Direct measurement of LDL-cholesterol after decomposition of cholesterol from other lipoproteines	2.20	0.13	5.8	35
Chol-LDL, Friedewald		2.48	0.15	6.0	8
	Calculated	2.48	0.15	6.0	8

Serum A | CK, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (CK)	194	192	10	5.4	1	176	221	-	83
Vitros 250-950 & 5,1 4600 and 5600 (Enz)	-	-	-	-	-	205	205	-	1
All	194	192	10	5.4	1	176	221	-	84



■ All method groups ■ IFCC methods (CK) (x_{pt} : 194 | Target area: 170-217 | Target: $\pm 12\%$)

■ All method groups ■ Vitros 250-950 & 5,14600 and 5600 (Enz)

Serum A | CK, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (CK)		194	10	5.4	83
	Abbott Aeroset, Architect	199	19	9.5	5
	Abbott Alinity	203	4	2.1	4
	AU instruments	202	9	4.6	8
	Biotechnica	-	-	-	1
	Cormay	188	6	2.9	2
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	188	6	3.3	41
	Roche Cobas Integra	193	9	4.7	3
	Siemens Advia	201	7	3.3	5
	Siemens Dimension	190	3	1.7	3
	Thermo Scientific	204	12	6.0	8
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

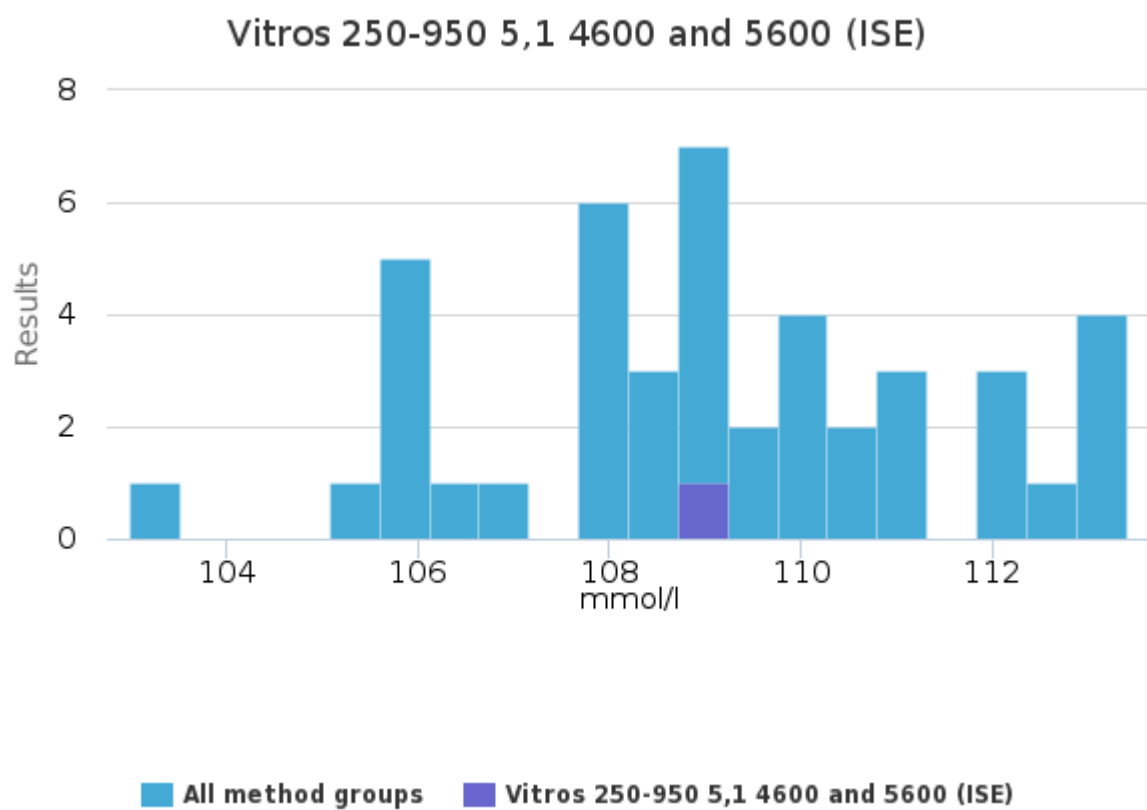
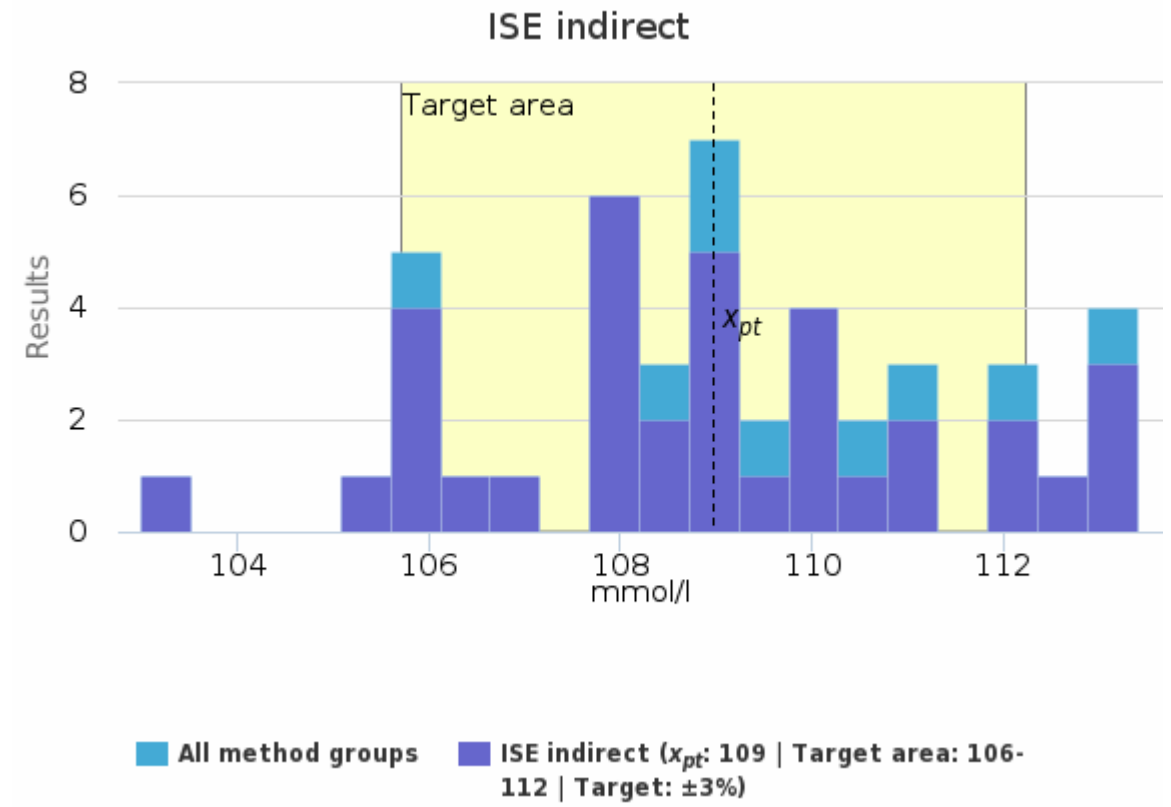
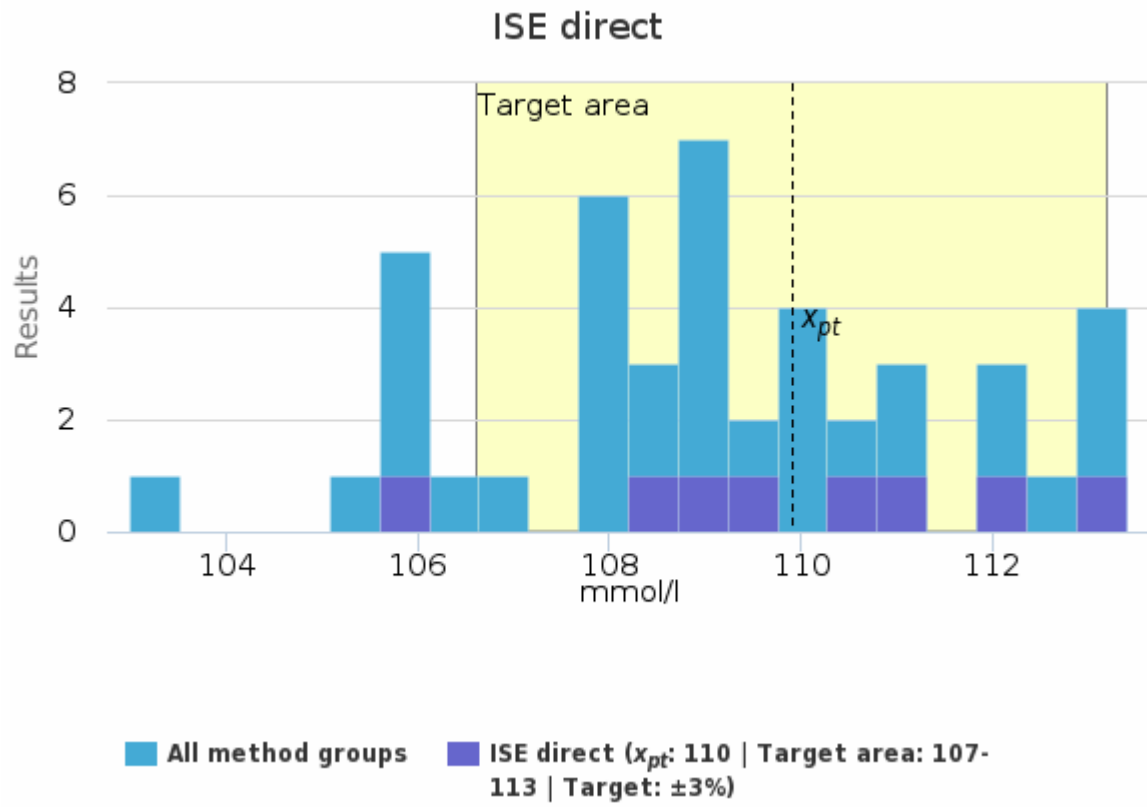
Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (CK)		194	10	5.4	83
	Advia Chemistry XPT	199	7	3.5	4
	Advia 1800	-	-	-	1
	Alinity c	203	4	2.1	4
	Architect c8000	-	-	-	1
	Architect ci4100	220	2	1.0	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	204	11	5.6	4
	AU 680	201	8	3.9	4
	BT 3500	-	-	-	1
	cobas c111	191	2	1.1	3
	cobas c303	-	-	-	1
	cobas c311	190	9	4.7	4
	cobas c501	189	7	3.7	25
	cobas c503	184	3	1.6	4
	cobas c702	187	3	1.7	5
	Dimension EXL	192	<1	0.4	2

	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	198	5	2.4	2
	Konelab PRIME 60i	215	2	0.8	3
	Konelab 20	-	-	-	1
	Konelab 20i	-	-	-	1
	Konelab 20XT	-	-	-	1
	Konelab 60i	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
IFCC methods (CK)		194	10	5.4	83
	Creatine-P, ADP, NAC activator / NADPH; photometry	194	10	5.4	83
Vitros 250-950 & 5,1 4600 and 5600 (Enz)		-	-	-	1
	Alpha-ketoglutarate, Ala, P-5-P / NADH; reflectance	-	-	-	1

Serum A | Cl, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	110	110	2	2.0	<1	106	113	-	8
ISE indirect	109	109	2	2.2	<1	103	113	-	35
Vitros 250-950 5,1 4600 and 5600 (ISE)	-	-	-	-	-	109	109	-	1
All	109	109	2	2.2	<1	103	113	-	44



Serum A | Cl, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		110	2	2.0	8
	Easylite	-	-	-	1
	Easystat	-	-	-	1
	KVERTIMED	-	-	-	1
	Radiometer blood gas analyzer	-	-	-	1
	Roche blood gas and electrolyte analysers	-	-	-	1
	SENSACORE	-	-	-	1
	Thermo Scientific	-	-	-	1
	Thermo Scientific electrolyte analysers	-	-	-	1
ISE indirect		109	2	2.2	35
	Abbott Aeroset, Architect	110	<1	0.8	3
	Abbott Alinity	111	1	1.1	3
	AU instruments	109	<1	0.8	4
	Roche cobas	108	3	2.6	17
	Roche Cobas Integra	-	-	-	1
	Siemens Advia	110	2	1.9	4
	Siemens Dimension	108	2	1.7	3

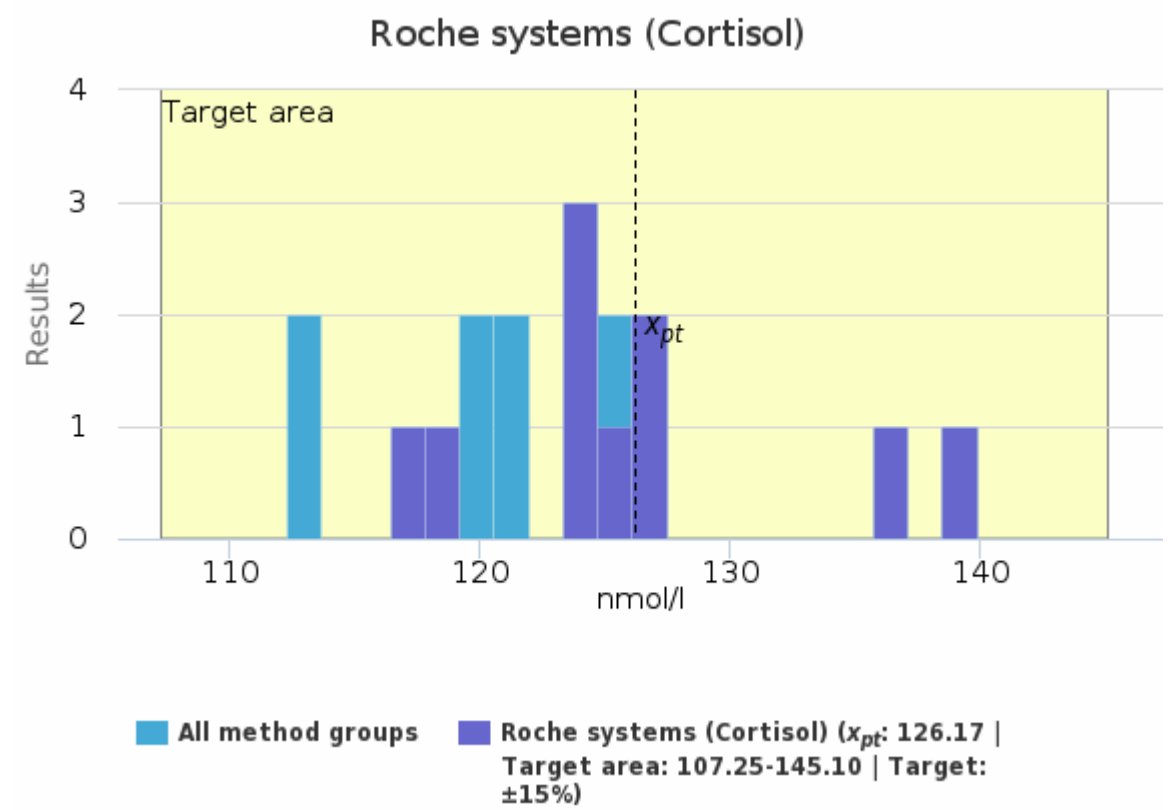
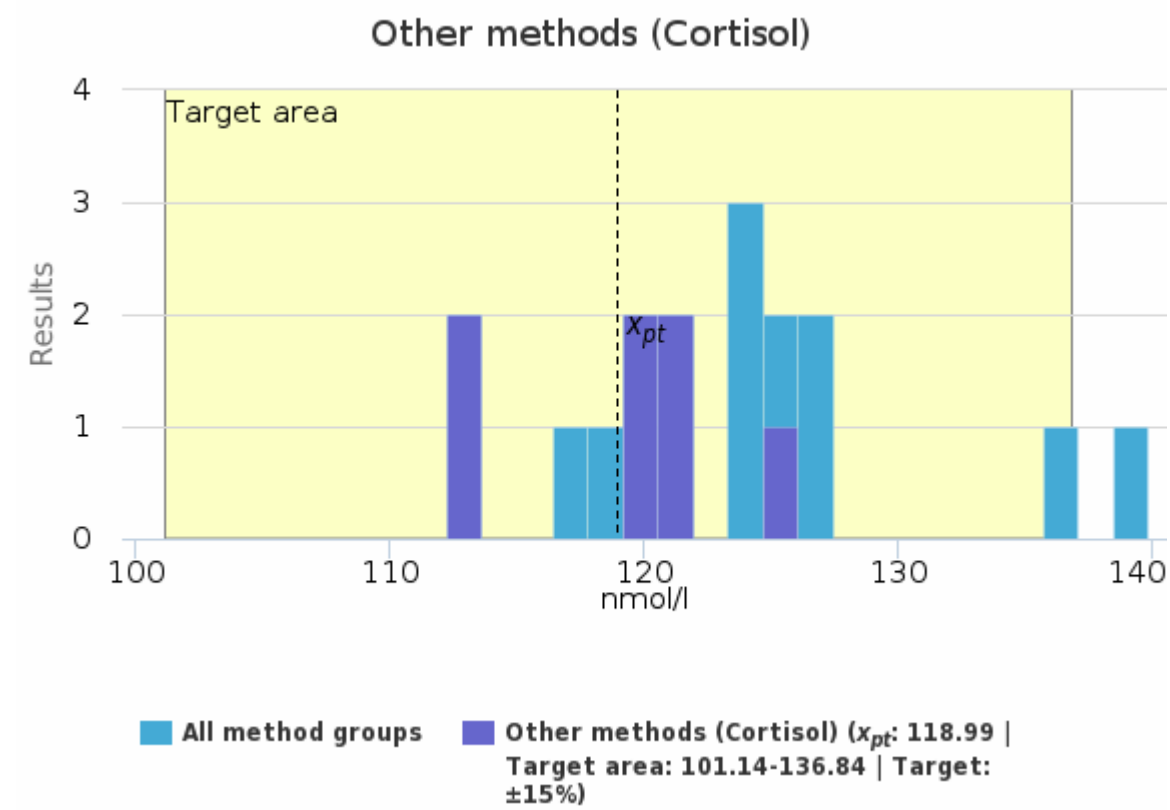
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		110	2	2.0	8
	ABL 800	-	-	-	1
	AVL 9180	-	-	-	1
	EasyLyte	-	-	-	1
	EasyStat	-	-	-	1
	ELECTROLYTE ANALYZER EL-5	-	-	-	1
	Indiko Plus	111	<1	0.9	2
	SENSA CORE ST-200 Aqua Electrolyte Analyzer	-	-	-	1
ISE indirect		109	2	2.2	35
	Advia Chemistry XPT	111	2	1.4	3
	Advia 1800	-	-	-	1
	Alinity c	111	1	1.1	3
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	109	1	1.1	2
	AU 680	110	<1	0.6	2
	cobas c303	-	-	-	1
	cobas c501	107	3	2.5	9
	cobas c503	108	<1	0.4	3
	cobas c702	110	3	3.1	4
	Dimension EXL	109	<1	0.7	2
	Dimension EXL 200	-	-	-	1
	Integra 400 Plus	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		110	2	2.0	8
	Direct potentiometry	110	2	2.0	8
ISE indirect		109	2	2.2	35
	Indirect potentiometry	109	2	2.2	35
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Direct potentiometry	-	-	-	1

Serum A | Cortisol, nmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Other methods (Cortisol)	118.99	120.20	4.68	3.9	1.77	112.28	125.00	-	7
Roche systems (Cortisol)	126.17	124.50	7.11	5.6	2.25	117.00	139.86	-	10
All	123.22	123.59	7.06	5.7	1.71	112.28	139.86	-	17



Serum A | Cortisol, nmol/l, Additional summary

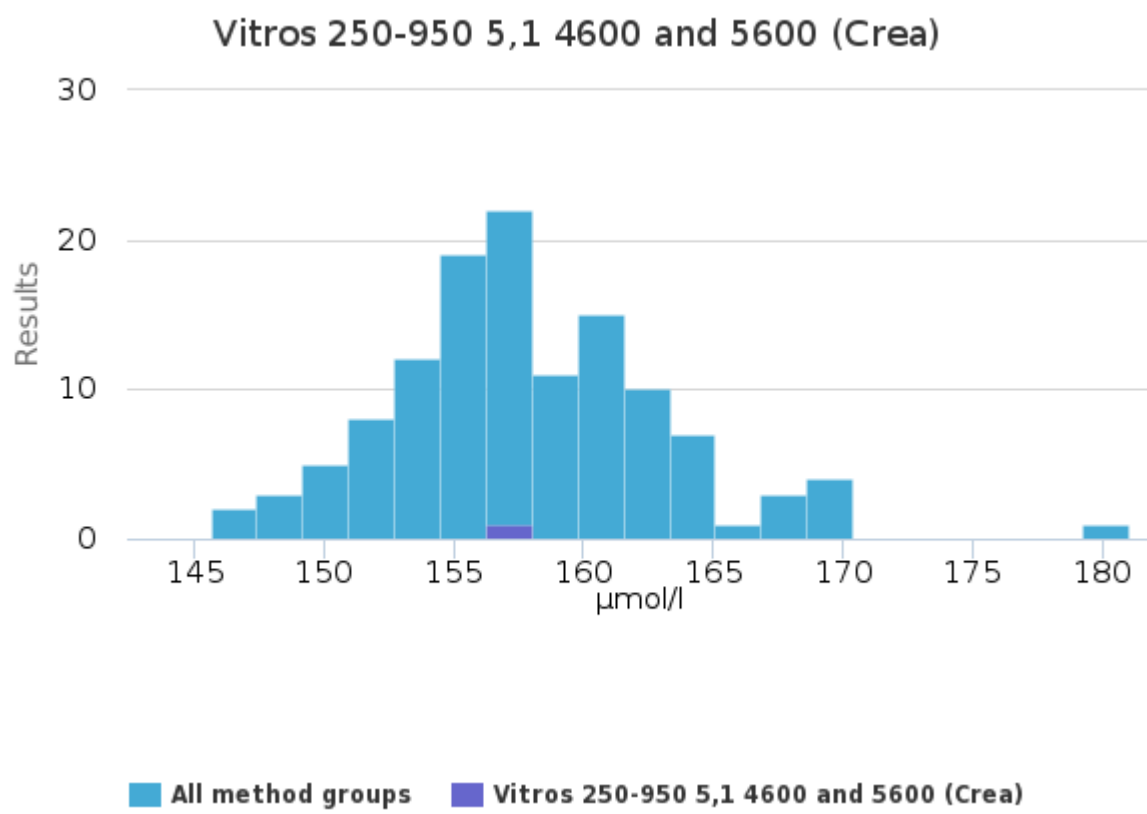
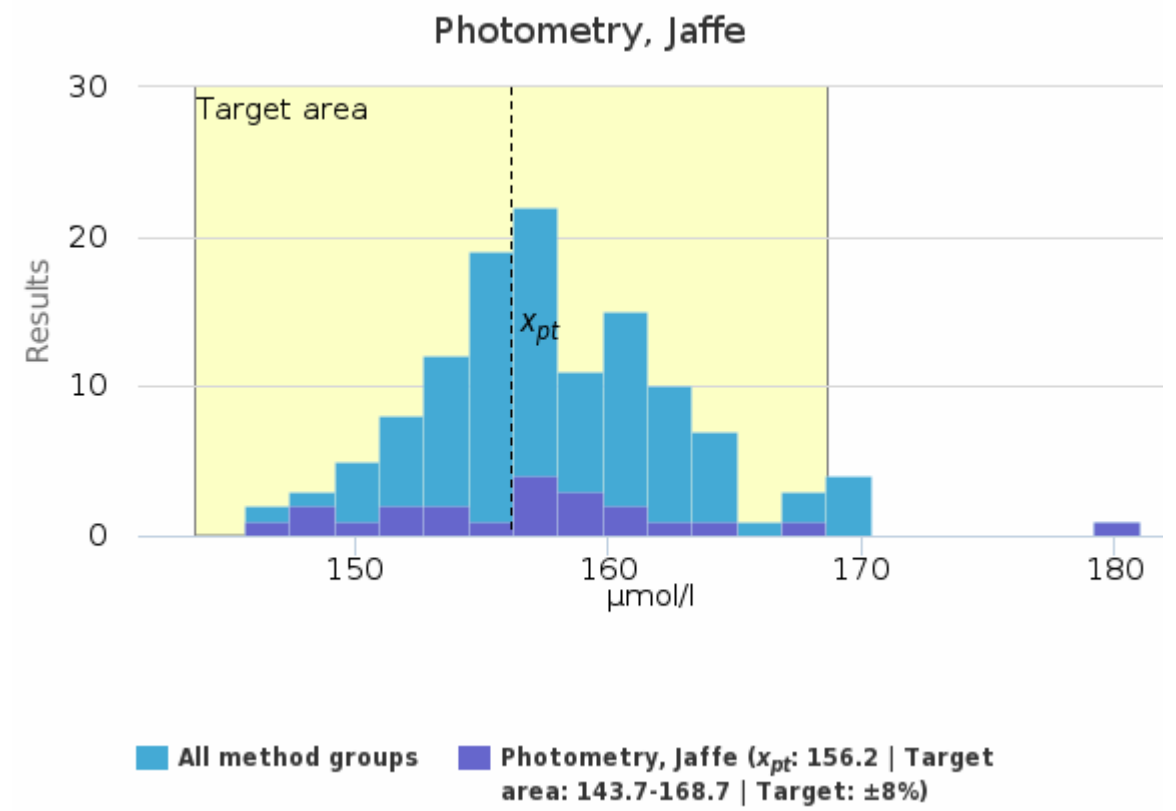
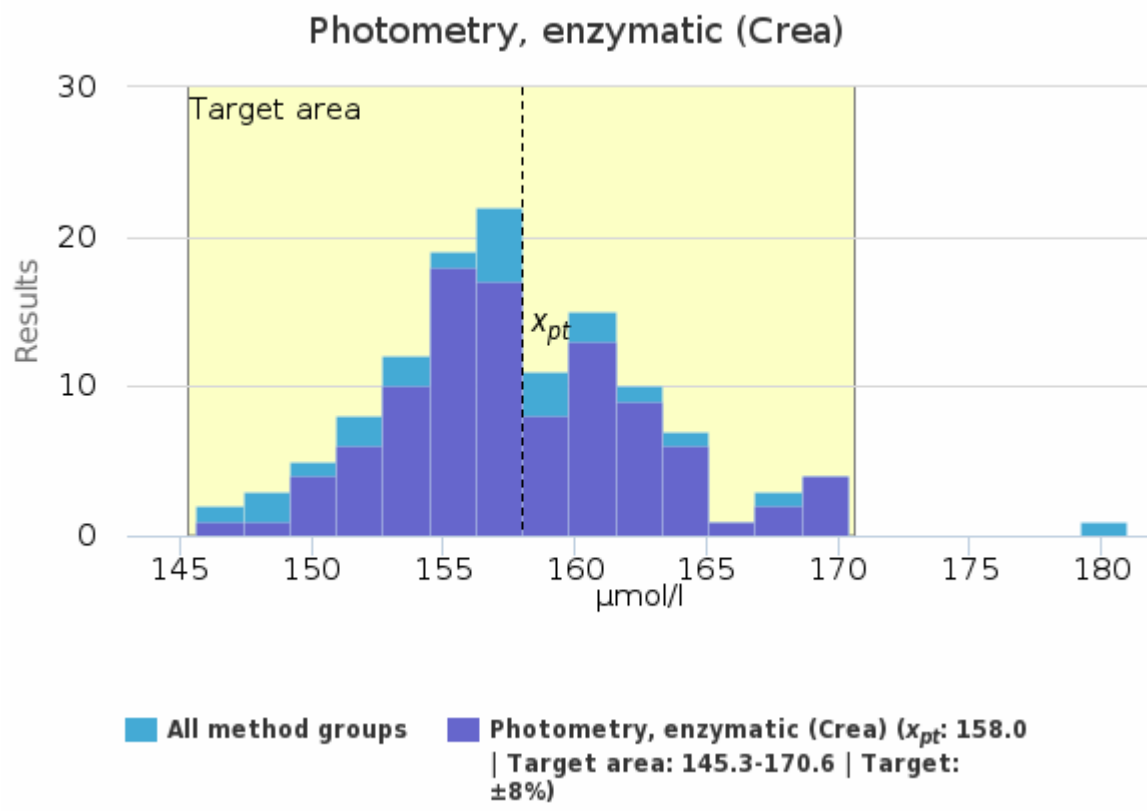
Methodics	Method	x_{pt}	sd	CV%	n
Other methods (Cortisol)		118.99	4.68	3.9	7
	Abbott Aeroset, Architect	-	-	-	1
	Abbott Alinity	118.03	4.49	3.8	3
	Abbott Architect	-	-	-	1
	bioMerieux Vidas	-	-	-	1
	Snibe Diagnostics Maglumi	-	-	-	1
Roche systems (Cortisol)		126.17	7.11	5.6	10
	Roche cobas	127.06	7.37	5.8	8
	Roche Elecsys	122.65	6.58	5.4	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Other methods (Cortisol)		118.99	4.68	3.9	7
	Alinity i	118.03	4.49	3.8	3
	Architect ci8200	122.60	3.39	2.8	2
	Maglumi 2000	-	-	-	1
	Vidas	-	-	-	1
Roche systems (Cortisol)		126.17	7.11	5.6	10
	cobas e411	133.58	8.88	6.6	2
	cobas e601	126.15	7.54	6.0	4
	cobas e602	-	-	-	1
	cobas e801	124.33	0.58	0.5	3

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Other methods (Cortisol)		118.99	4.68	3.9	7
	Chemiluminescence immunoassay	120.09	4.43	3.7	5
	Enzyme immunoassay	-	-	-	1
	Luminoimmunoassay	-	-	-	1
Roche systems (Cortisol)		126.17	7.11	5.6	10
	Electrochemiluminescence immunoassay	126.17	7.11	5.6	10

Serum A | Crea, $\mu\text{mol/l}$

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Crea)	158.0	157.7	4.9	3.1	0.5	146.0	170.0	-	100
Photometry, Jaffe	156.2	157.4	5.8	3.7	1.3	145.7	168.4	1	22
Vitros 250-950 5,1 4600 and 5600 (Crea)	-	-	-	-	-	157.3	157.3	-	1
All	157.7	157.4	5.1	3.2	0.5	145.7	170.0	1	123



Serum A | Crea, $\mu\text{mol/l}$, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Crea)		158.0	4.9	3.1	100
	Abbott Aeroset, Architect	155.0	2.7	1.7	5
	Abbott Alinity	154.4	2.4	1.5	3
	AU instruments	157.1	2.8	1.8	4
	Mindray	-	-	-	1
	Roche cobas	158.0	3.9	2.5	40
	Roche Cobas Integra	155.8	6.4	4.1	4
	Siemens Advia	154.5	1.7	1.1	5
	Thermo Scientific	159.5	6.1	3.8	38
	Photometry, Jaffe		156.2	5.8	3.7
Abbott Alinity		-	-	-	1
AU instruments		152.3	5.2	3.4	5
BioSystems		168.5	17.7	10.5	2
Biotechnica		-	-	-	1
Cormay		166.4	2.8	1.7	2
Erba		-	-	-	1
Roche cobas		156.6	6.4	4.1	5
Siemens Dimension		155.0	2.0	1.3	3

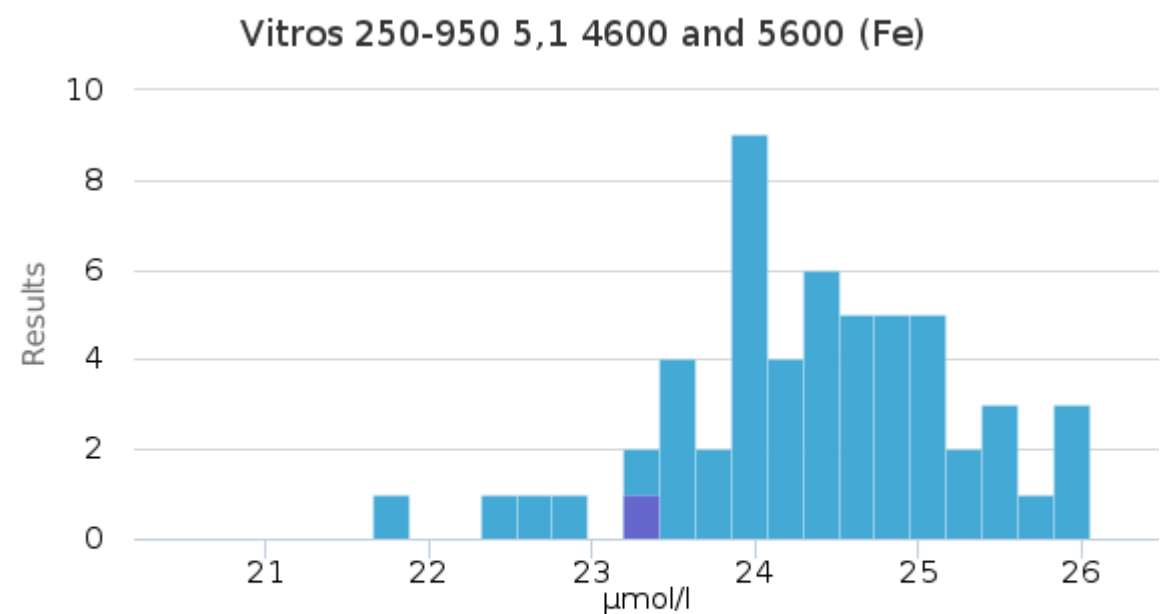
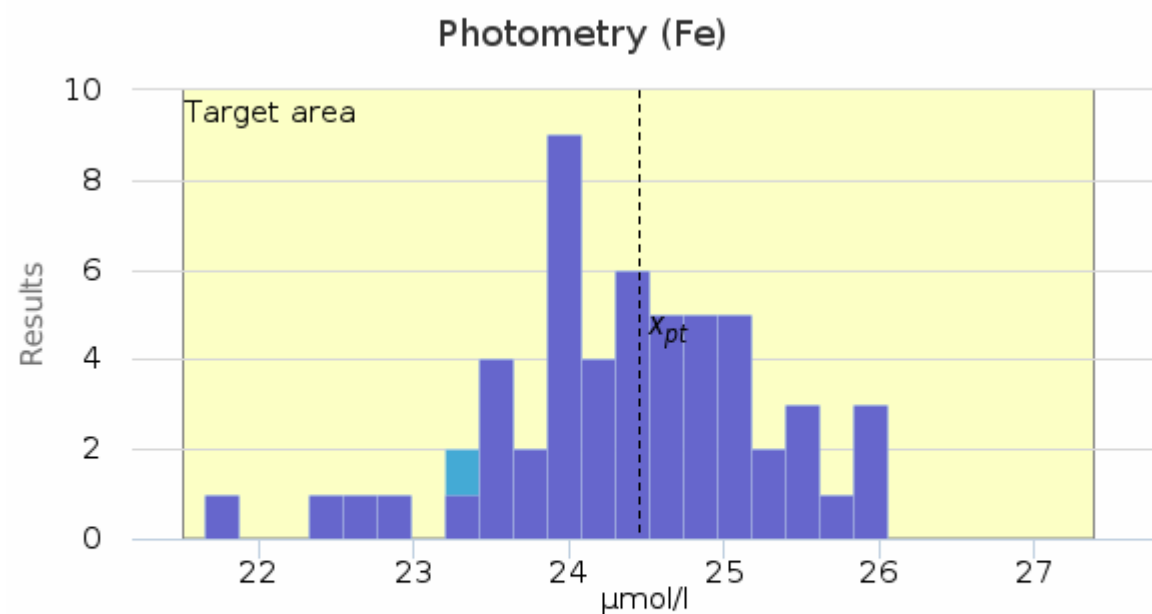
	Thermo Scientific Compens Jaffe	154.7	3.9	2.5	2
Vitros 250-950 5,1 4600 and 5600 (Crea)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Crea)		158.0	4.9	3.1	100
	Advia Chemistry XPT	154.1	1.6	1.1	4
	Advia 1800	-	-	-	1
	Alinity c	154.4	2.4	1.5	3
	Architect c8000	-	-	-	1
	Architect ci4100	154.1	1.6	1.0	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	-	-	-	1
	AU 680	157.9	2.8	1.8	3
	cobas c111	152.6	3.8	2.5	3
	cobas c311	161.3	1.0	0.6	4
	cobas c501	158.1	3.2	2.0	23
	cobas c503	159.3	3.5	2.2	5
	cobas c702	157.4	5.8	3.7	5
	Indiko	155.0	2.8	1.8	2
	Indiko Plus	157.2	5.5	3.5	10
	Integra 400 Plus	155.8	6.4	4.1	4
	Konelab Prime 30	159.0	12.7	8.0	2
	Konelab PRIME 60i	165.3	4.5	2.7	10
	Konelab 20	-	-	-	1
	Konelab 20i	156.3	5.5	3.5	7
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 30i	161.3	2.9	1.8	3
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
Photometry, Jaffe		156.2	5.8	3.7	22
	Alinity c	-	-	-	1
	AU 480	150.8	4.6	3.0	4
	AU 680	-	-	-	1
	A25 Automatic Analyzer	168.5	17.7	10.5	2
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	154.6	8.2	5.3	3
	Dimension EXL	155.6	2.5	1.6	2
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	154.7	3.9	2.5	2
	LabAnalyt SA	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Crea)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Crea)		158.0	4.9	3.1	100
	Creatininase / PAP; photometry	158.4	5.2	3.3	40
	Creatinine deiminase / NADPH; photometry	156.2	4.3	2.8	8
	Enzyme / H2O2 / chromogen; photometry	158.3	4.9	3.1	45
	Sarcosine oxidase method	155.7	4.3	2.8	7
Photometry, Jaffe		156.2	5.8	3.7	22
	Alkaline picrate (Jaffe); photometry	157.3	7.7	4.9	22
Vitros 250-950 5,1 4600 and 5600 (Crea)		-	-	-	1
	Enzyme / H2O2 / chromogen; reflectance	-	-	-	1

Serum A | Fe, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Fe)	24.4	24.5	0.8	3.3	0.1	22.4	26.1	1	54
Vitros 250-950 5,1 4600 and 5600 (Fe)	-	-	-	-	-	23.3	23.3	-	1
All	24.4	24.4	0.8	3.3	0.1	22.4	26.1	1	55



■ All method groups ■ Photometry (Fe) (x_{pt} : 24.4 | Target area: 21.5-27.4 | Target: ±12%)

■ All method groups ■ Vitros 250-950 5,1 4600 and 5600 (Fe)

Serum A | Fe, µmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Fe)		24.4	0.8	3.3	54
	Abbott Aeroset, Architect	25.3	0.4	1.4	3
	Abbott Alinity	24.7	0.3	1.3	4
	AU instruments	23.8	0.9	3.8	8
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Mindray Fe Colorimetric	-	-	-	1
	Roche cobas	24.5	0.8	3.1	23
	Roche Cobas Integra	24.5	0.6	2.3	3
	Siemens Advia	24.1	0.8	3.2	2
	Siemens Atellica	-	-	-	1
	Siemens Dimension	-	-	-	1
	Thermo Scientific	25.1	0.6	2.5	6
Vitros 250-950 5,1 4600 and 5600 (Fe)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

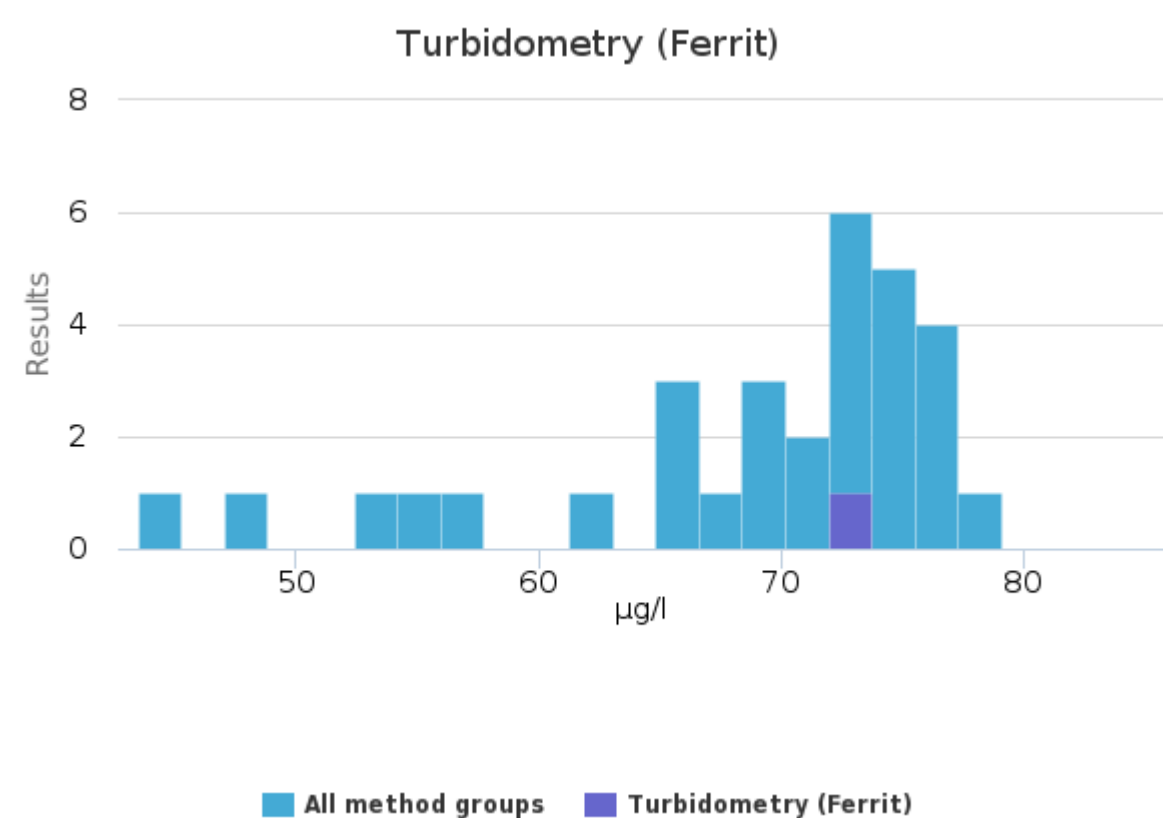
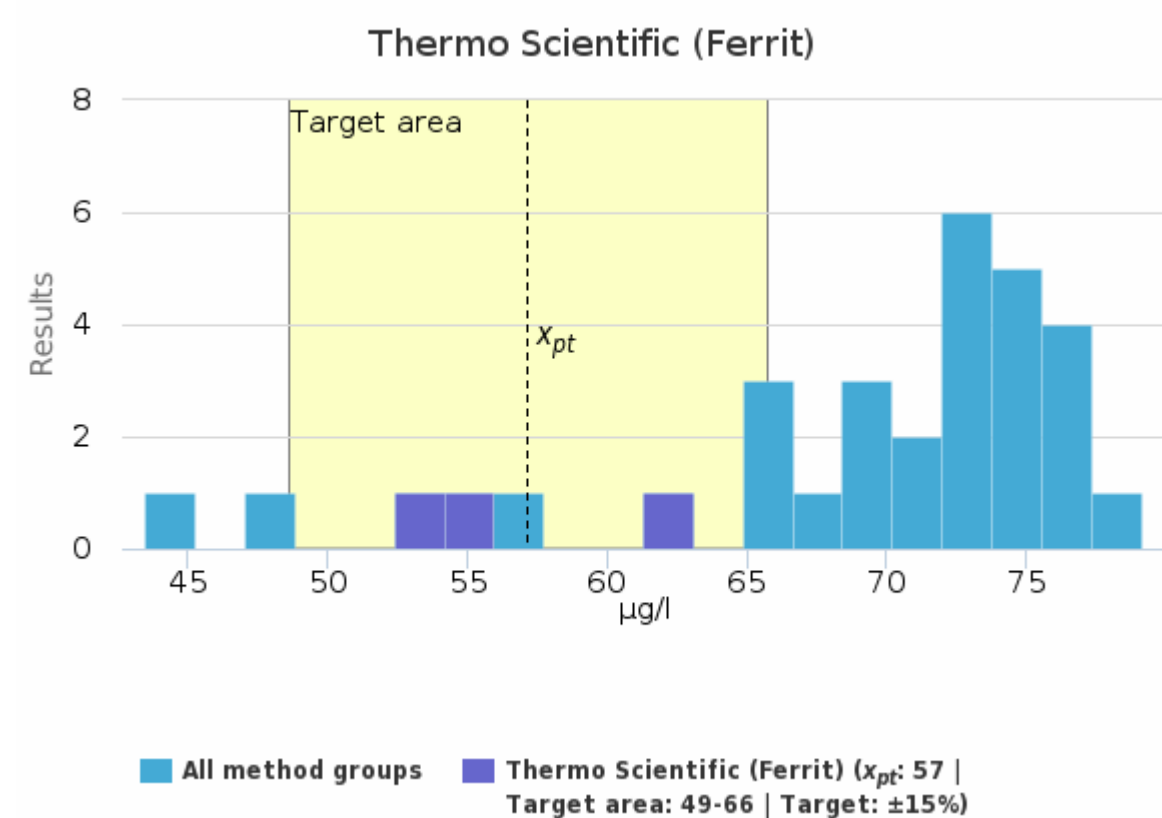
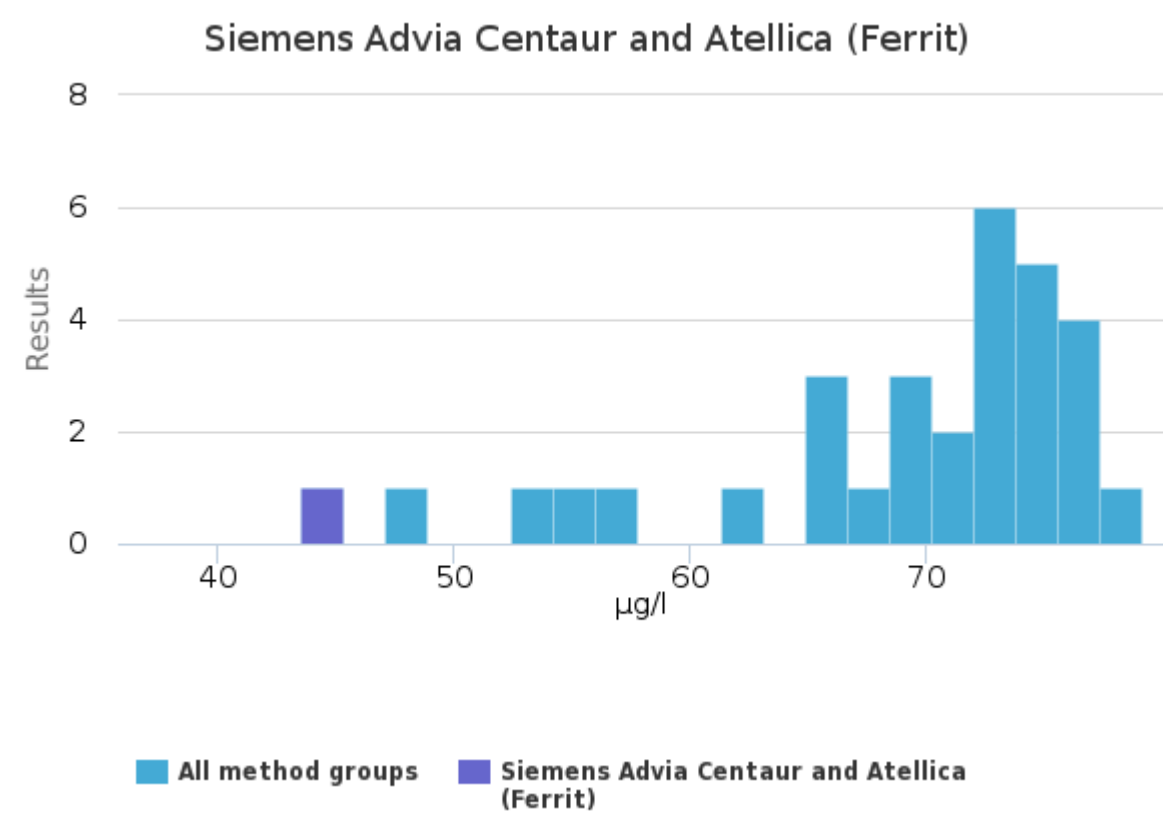
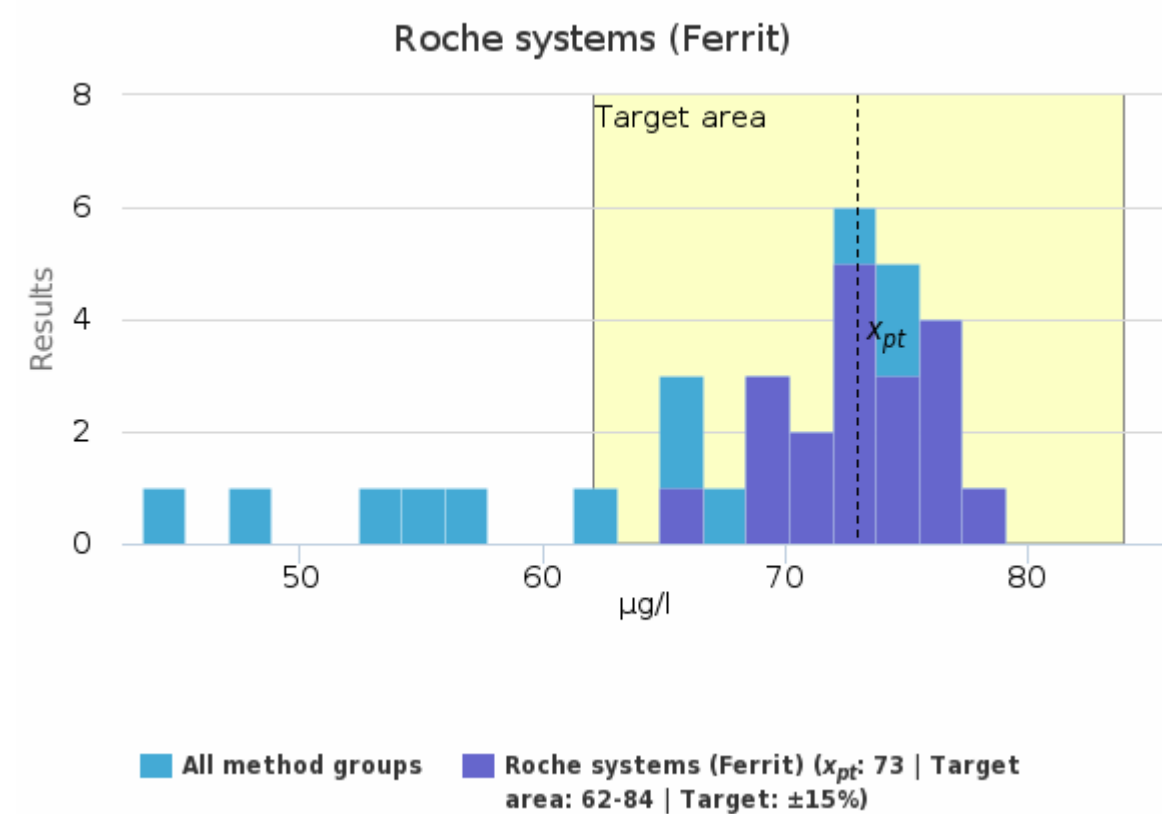
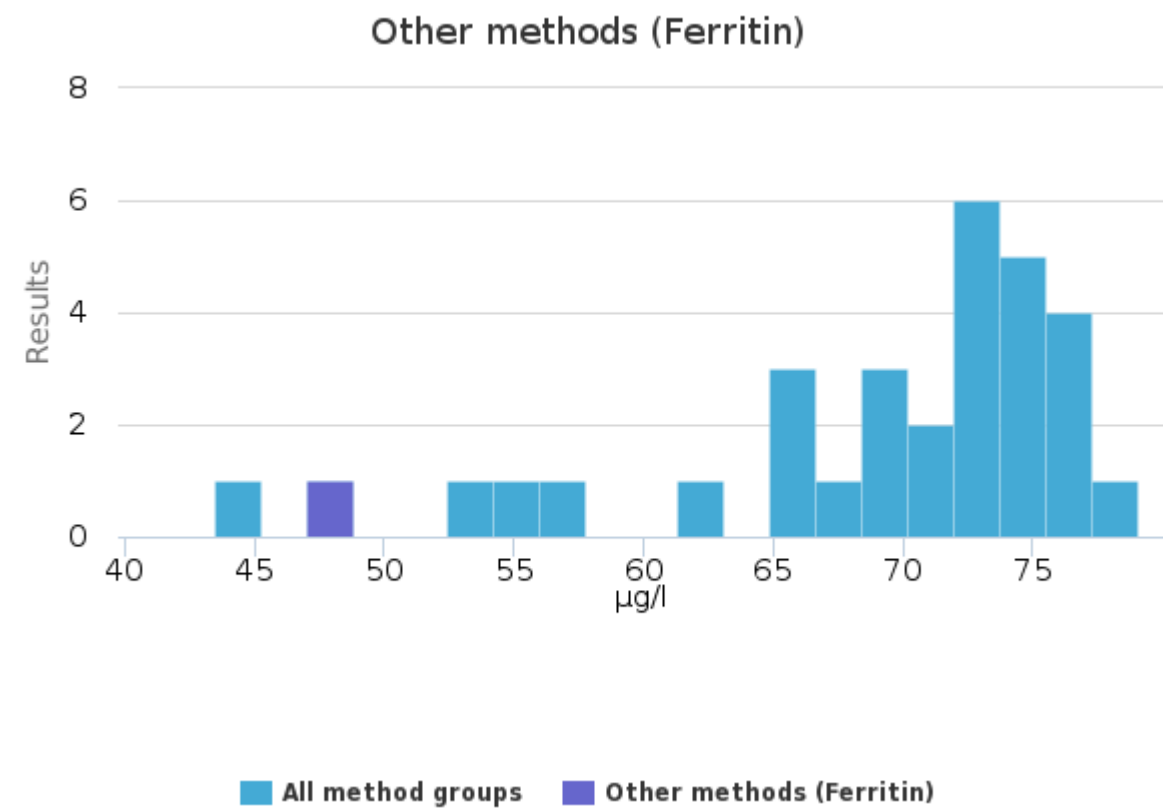
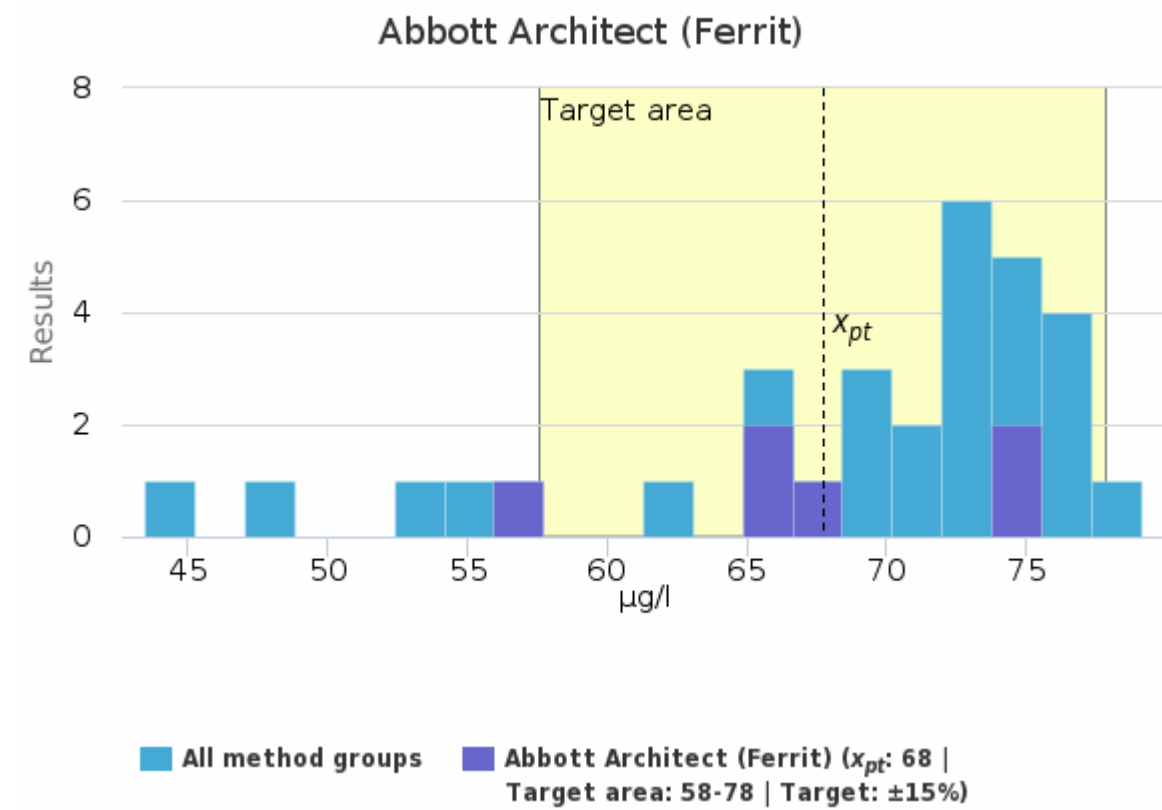
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Fe)		24.4	0.8	3.3	54
	Advia Chemistry XPT	-	-	-	1
	Advia 1800	-	-	-	1
	Alinity c	24.7	0.3	1.3	4
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	23.6	1.3	5.5	4
	AU 680	24.0	0.3	1.4	4
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	24.8	0.9	3.6	12
	cobas c503	23.9	0.2	1.0	4
	cobas c702	24.5	0.5	1.9	5
	Dimension EXL 200	-	-	-	1
	Indiko Plus	24.9	0.6	2.4	4
	Integra 400	-	-	-	1

	Integra 400 Plus	24.9	0.2	0.9	2
	Konelab PRIME 60i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Fe)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Fe)		24.4	0.8	3.3	54
	Ferene; photometry	24.7	0.8	3.1	16
	Ferrozine; photometry	24.4	0.9	3.5	30
	TPTZ; photometry	23.8	0.9	3.8	8
Vitros 250-950 5,1 4600 and 5600 (Fe)		-	-	-	1
	Pyridylazo chromogen; reflectance	-	-	-	1

Serum A | Ferritin, µg/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (Ferritin)	68	67	7	10.1	3	57	76	-	6
Other methods (Ferritin)	-	-	-	-	-	48	48	-	1
Roche systems (Ferritin)	73	73	3	4.3	<1	66	79	-	19
Siemens Advia Centaur and Atellica (Ferritin)	-	-	-	-	-	44	44	-	1
Thermo Scientific (Ferritin)	57	56	4	7.5	2	54	62	-	3
Turbidometry (Ferritin)	-	-	-	-	-	73	73	-	1
All	70	72	8	10.8	1	48	79	1	31



Serum A | Ferritin, µg/l, Additional summary

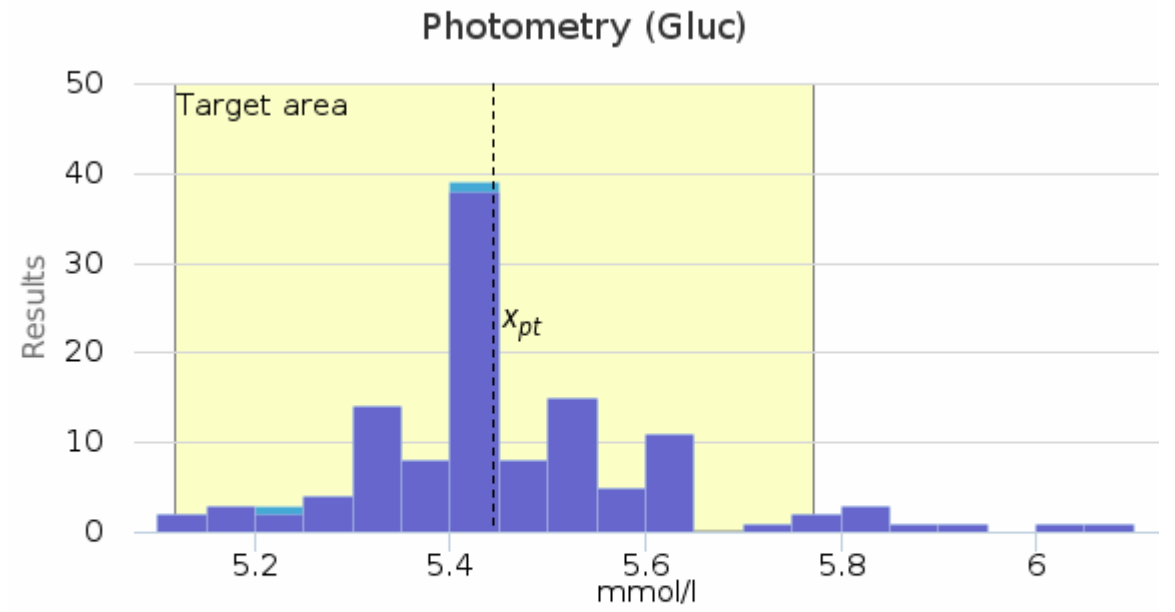
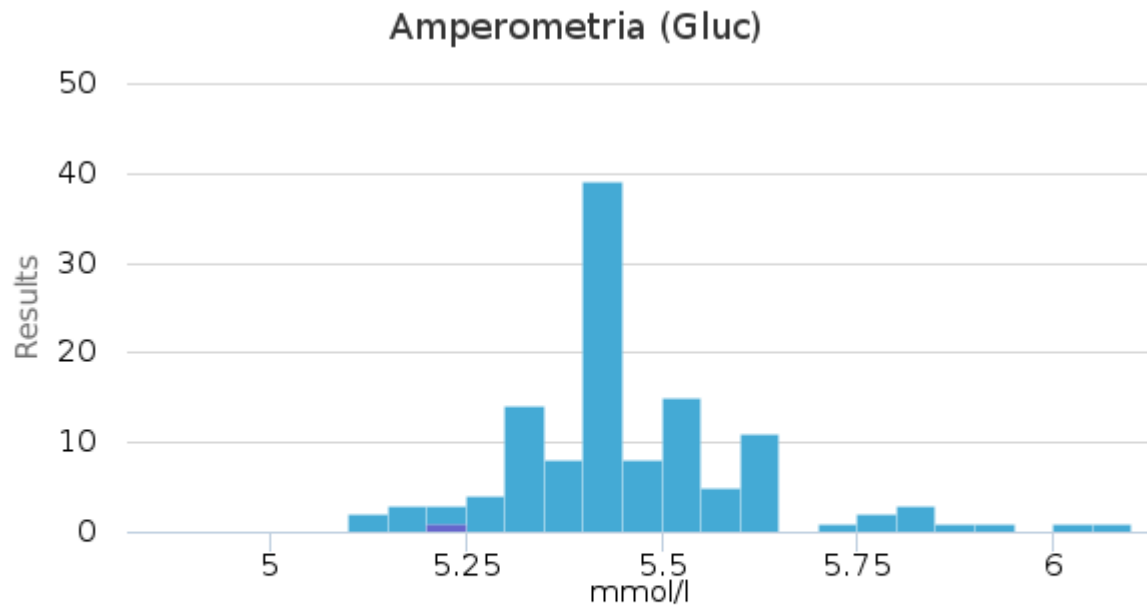
Methodics	Method	<i>x_{pt}</i>	sd	CV%	n
Abbott Architect (Ferritin)		68	7	10.1	6
	Abbott Aeroset, Architect	66	9	13.6	3
	Abbott Alinity	70	5	7.5	3
Other methods (Ferritin)		-	-	-	1
	Beckman Coulter Access	-	-	-	1
Roche systems (Ferritin)		73	3	4.3	19
	Roche cobas	73	3	4.7	15
	Roche Cobas Integra	-	-	-	1
	Roche Elecsys	74	2	2.9	3
Siemens Advia Centaur and Atellica (Ferritin)		-	-	-	1
	Siemens Advia Centaur	-	-	-	1
Thermo Scientific (Ferritin)		57	4	7.5	3
	Thermo Scientific	57	4	7.5	3
Turbidometry (Ferritin)		-	-	-	1
	Beckmann Coulter Olympus	-	-	-	1

Methodics	Instrument	<i>x_{pt}</i>	sd	CV%	n
Abbott Architect (Ferritin)		68	7	10.1	6
	Alinity i	70	5	7.5	3
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
Other methods (Ferritin)		-	-	-	1
	Access 2	-	-	-	1
Roche systems (Ferritin)		73	3	4.3	19
	cobas c311	-	-	-	1
	cobas c501	73	1	1.7	2
	cobas e402	-	-	-	1
	cobas e411	-	-	-	1
	cobas e601	73	3	4.1	7
	cobas e602	-	-	-	1
	cobas e801	74	3	4.1	5
	Integra 400	-	-	-	1
Siemens Advia Centaur and Atellica (Ferritin)		-	-	-	1
	Advia Centaur XP	-	-	-	1
Thermo Scientific (Ferritin)		57	4	7.5	3
	Indiko Plus	59	5	7.7	2
	Konelab PRIME 60i	-	-	-	1
Turbidometry (Ferritin)		-	-	-	1
	AU 480	-	-	-	1

Methodics	Chemical principle	<i>x_{pt}</i>	sd	CV%	n
Abbott Architect (Ferritin)		68	7	10.1	6
	Chemiluminescence immunoassay	68	8	11.1	5
	Luminoimmunoassay	-	-	-	1
Other methods (Ferritin)		-	-	-	1
	Chemiluminescence immunoassay	-	-	-	1
Roche systems (Ferritin)		73	3	4.3	19
	Chemiluminescence immunoassay	72	2	2.5	4
	Direct measurement of antigen-antibody complex (Ag-Ab)	-	-	-	1
	Electrochemiluminescence immunoassay	74	3	4.1	11
	Immunoturbidimetric assay	72	5	7.4	3
Siemens Advia Centaur and Atellica (Ferritin)		-	-	-	1
	Chemiluminescence immunoassay	-	-	-	1
Thermo Scientific (Ferritin)		57	4	7.5	3
	Latex-immunoturbidimetry	-	-	-	1
	Microparticle enzyme immunoassay	55	1	2.2	2
Turbidometry (Ferritin)		-	-	-	1
	Latex-immunoturbidimetry	-	-	-	1

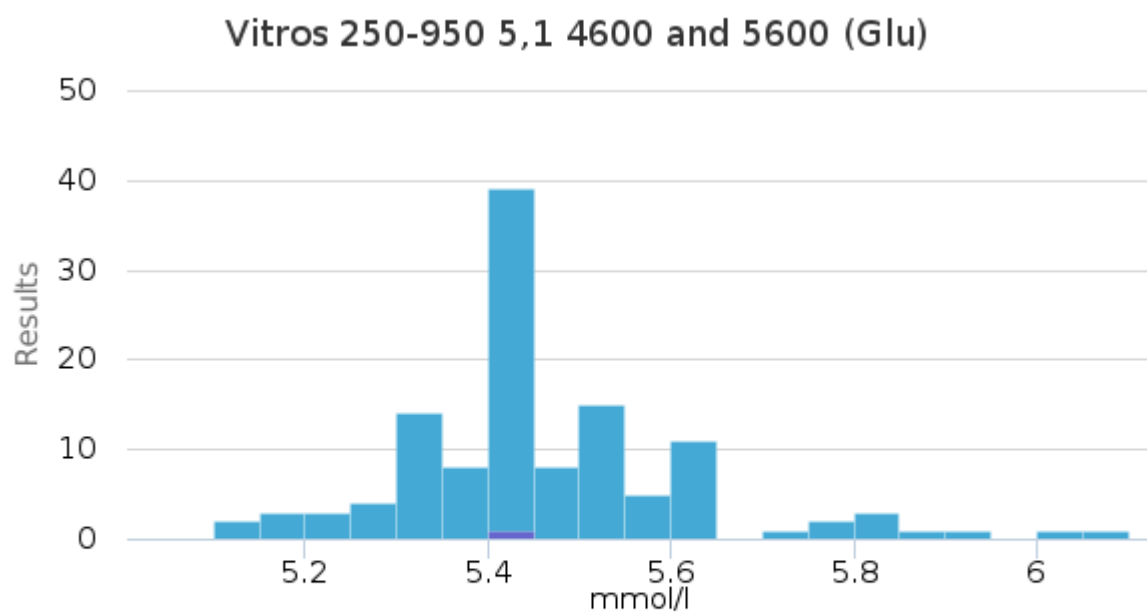
Serum A | Glucose, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Amperometria (Gluc)	-	-	-	-	-	5.20	5.20	-	1
Photometry (Gluc)	5.44	5.41	0.15	2.7	0.01	5.10	5.90	2	120
Vitros 250-950 5,1 4600 and 5600 (Glu)	-	-	-	-	-	5.40	5.40	-	1
All	5.44	5.40	0.14	2.6	0.01	5.10	5.88	3	122



■ All method groups ■ Amperometria (Gluc)

■ All method groups ■ Photometry (Gluc) (x_{pt} : 5.44 | Target area: 5.12-5.77 | Target: $\pm 6\%$)



■ All method groups ■ Vitros 250-950 5,1 4600 and 5600 (Glu)

Serum A | Glucose, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Amperometria (Gluc)		-	-	-	1
	Blood-gas instruments	-	-	-	1
Photometry (Gluc)		5.44	0.15	2.7	120
	Abbott Aeroset, Architect	5.35	0.12	2.3	5
	Abbott Alinity	5.44	0.09	1.7	4
	AU instruments	5.51	0.22	4.0	9
	BioSystems	5.83	0.31	5.2	3
	Biotechnica	-	-	-	1
	Cormay	5.70	0.14	2.5	2
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	5.41	0.12	2.2	43
	Roche Cobas Integra	5.57	0.17	3.1	4
	Siemens Advia	5.50	0.11	2.0	5
	Siemens Dimension	5.66	0.15	2.6	3
	Thermo Scientific	5.44	0.15	2.7	38

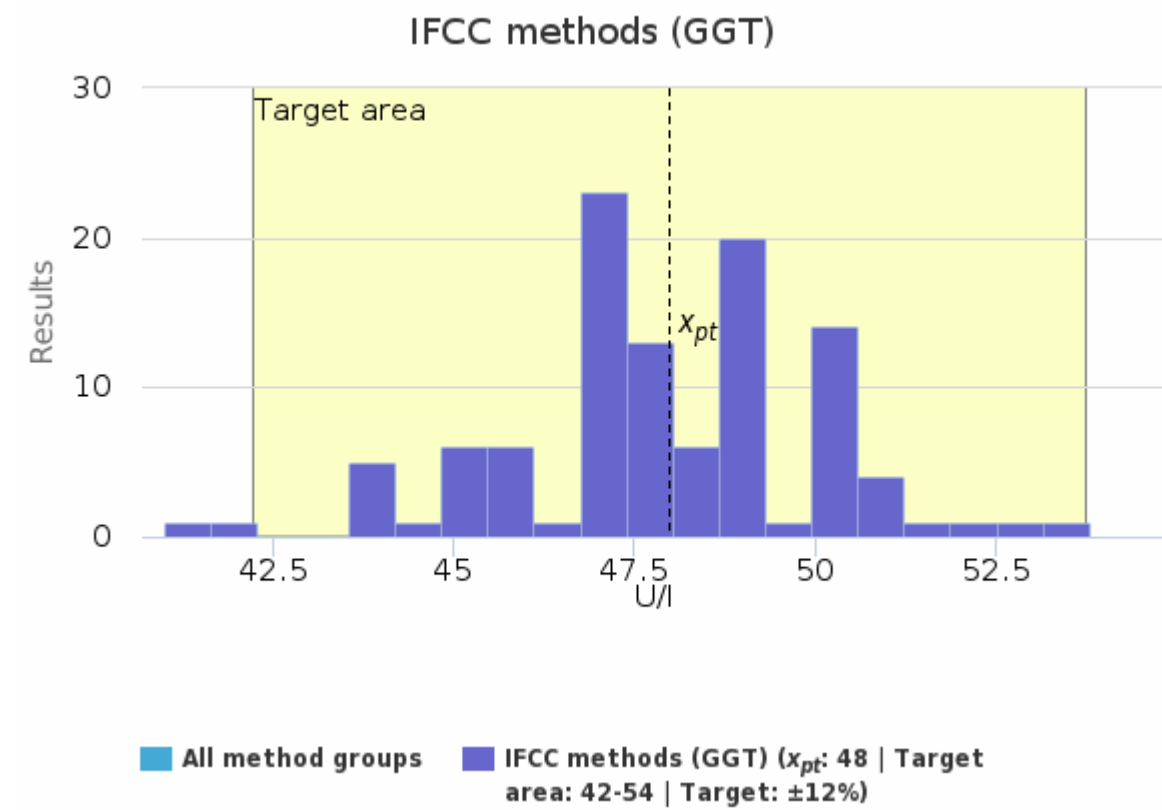
Vitros 250-950 5,1 4600 and 5600 (Glu)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Amperometria (Gluc)		-	-	-	1
	ABL 800	-	-	-	1
Photometry (Gluc)		5.44	0.15	2.7	120
	Advia Chemistry XPT	5.47	0.11	1.9	4
	Advia 1800	-	-	-	1
	Alinity c	5.44	0.09	1.7	4
	Architect c8000	-	-	-	1
	Architect ci4100	5.41	0.04	0.7	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	5.64	0.19	3.4	5
	AU 680	5.35	0.13	2.4	4
	A25 Automatic Analyzer	5.83	0.31	5.2	3
	BT 3500	-	-	-	1
	cobas c111	5.50	0.07	1.2	3
	cobas c303	-	-	-	1
	cobas c311	5.44	0.11	2.0	5
	cobas c501	5.40	0.13	2.4	25
	cobas c503	5.38	0.14	2.7	5
	cobas c702	5.39	0.05	1.0	5
	Dimension EXL	5.61	0.16	2.8	2
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko	5.38	0.07	1.3	3
	Indiko Plus	5.45	0.13	2.4	12
	Integra 400	-	-	-	1
	Integra 400 Plus	5.50	0.10	1.8	3
	Konelab Prime 30	5.40	0.14	2.6	2
	Konelab PRIME 60i	5.37	0.09	1.8	10
	Konelab 20	-	-	-	1
	Konelab 20i	5.57	0.23	4.2	6
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Glu)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Amperometria (Gluc)		-	-	-	1
	Glucose oxidase / H2O2- or O2-electrode; amperometry	-	-	-	1
Photometry (Gluc)		5.44	0.15	2.7	120
	Glucose dehydrogenase, mutarotase / NADH; photometry	5.47	0.12	2.1	3
	Glucose oxidase / H2O2- or O2-electrode; amperometry	-	-	-	1
	Glucose oxidase, H2O2 / chromogen; photometry	5.66	0.23	4.1	12
	Hexokinase, glucose-6-P-dehydrogenase / NADH; photometry	5.43	0.14	2.6	104
Vitros 250-950 5,1 4600 and 5600 (Glu)		-	-	-	1
	Glucose oxidase, H2O2 / chromogen; reflectance	-	-	-	1

Serum A | GT, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
IFCC methods (GGT)	48	48	2	4.3	<1	42	54	1	106
All	48	48	2	4.3	<1	42	54	1	106



Serum A | GT, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
IFCC methods (GGT)		48	2	4.3	106
	Abbott Aeroset, Architect	47	2	4.2	5
	Abbott Alinity	47	1	2.6	4
	AU instruments	48	1	2.9	9
	BioSystems	50	3	6.2	3
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	48	2	4.6	42
	Roche Cobas Integra	49	<1	1.0	3
	Siemens Advia	47	2	4.9	5
	Siemens Dimension	50	<1	<0.1	2
	Thermo Scientific	48	2	4.6	28

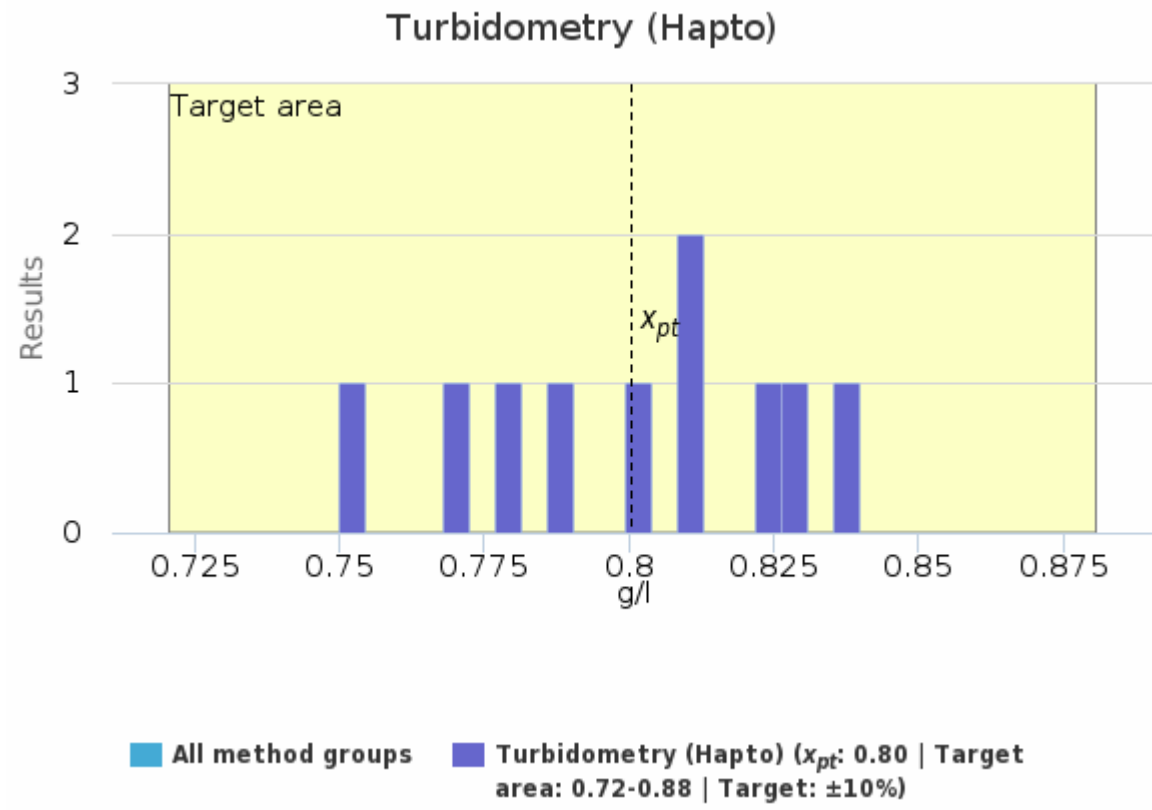
Methodics	Instrument	x_{pt}	sd	CV%	n
IFCC methods (GGT)		48	2	4.3	106
	Advia Chemistry XPT	46	1	3.1	4
	Advia 1800	-	-	-	1
	Alinity c	47	1	2.6	4
	Architect c8000	-	-	-	1
	Architect ci4100	46	2	4.2	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	48	2	3.4	5
	AU 680	49	<1	1.9	4
	A25 Automatic Analyzer	50	3	6.2	3
	BT 3500	-	-	-	1
	cobas c111	47	1	3.1	3
	cobas c303	-	-	-	1
	cobas c311	49	1	2.3	5
	cobas c501	48	2	4.7	24
	cobas c503	48	3	6.3	5
	cobas c702	49	2	3.2	5
	Dimension EXL	50	<1	<0.1	2
	Erba XL 100	-	-	-	1
	Indiko	-	-	-	1

	Indiko Plus	47	2	4.9	8
	Integra 400	-	-	-	1
	Integra 400 Plus	49	<1	0.6	2
	Konelab Prime 30	50	<1	1.4	2
	Konelab PRIME 60i	47	1	2.6	8
	Konelab 20	-	-	-	1
	Konelab 20i	47	3	5.7	5
	Konelab 20XTi	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1

Methodics	Chemical principle	<i>x_{pt}</i>	sd	CV%	n
IFCC methods (GGT)		48	2	4.3	106
	GLUCANA, glycyglycine / p-nitroanilin; photometry	48	2	4.4	61
	GLUCANA, glycyglycine,Tris / p-nitroanilin; photometry	48	2	4.6	45

Serum A | Haptog, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Turbidometry (Hapto)	0.80	0.81	0.03	3.5	<0.01	0.75	0.84	-	10
All	0.80	0.81	0.03	3.5	<0.01	0.75	0.84	-	10



Serum A | Haptog, g/l, Additional summary

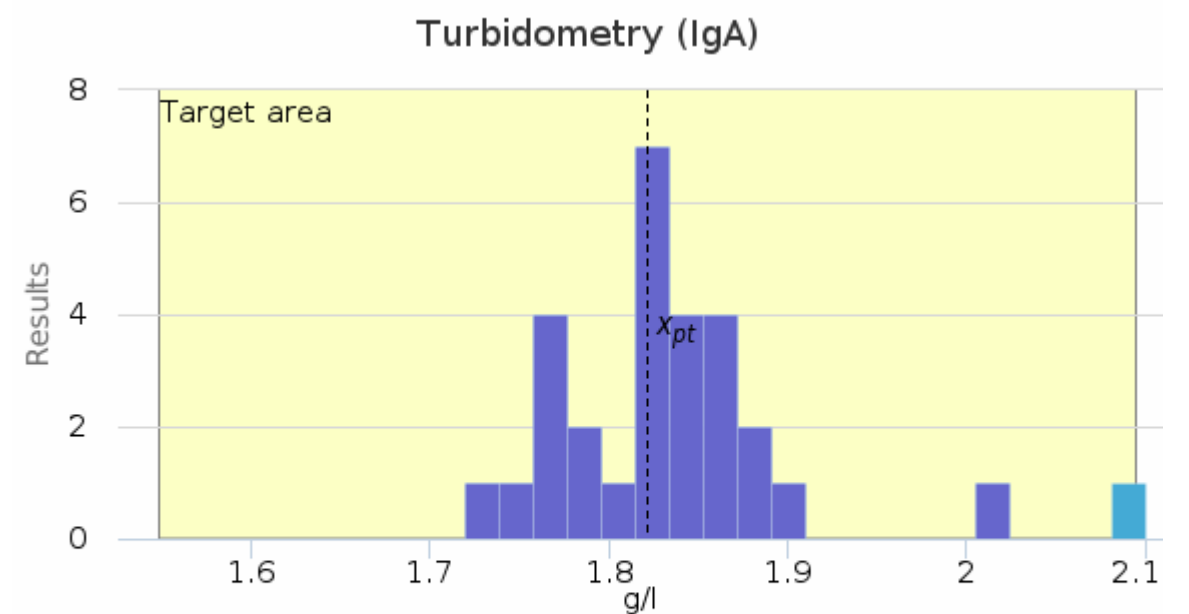
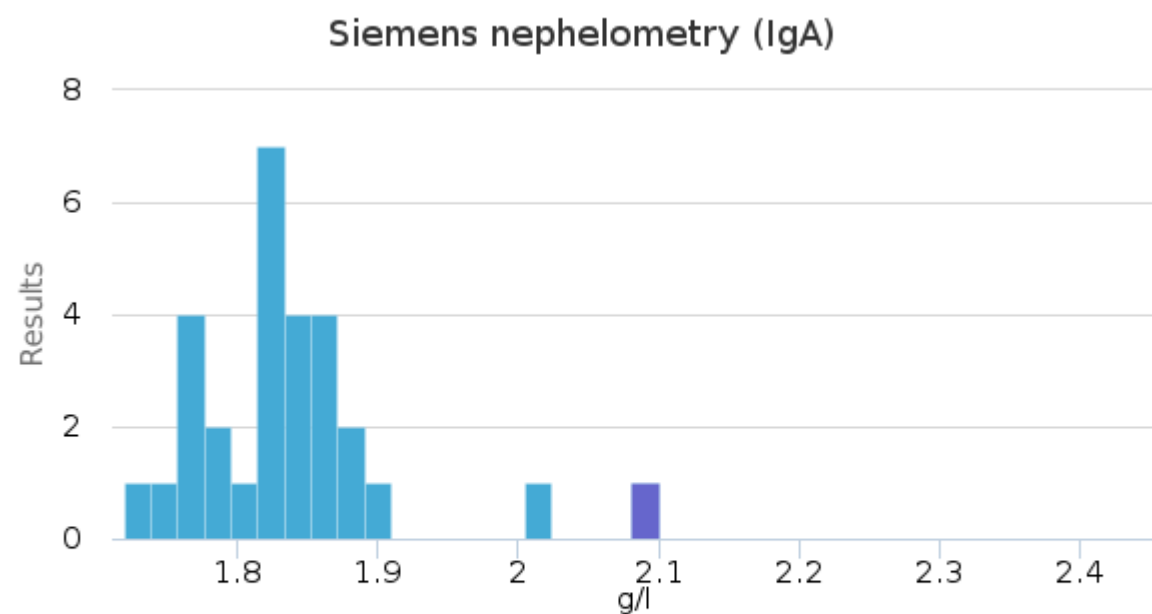
Methodics	Method	x_{pt}	sd	CV%	n
Turbidometry (Hapto)		0.80	0.03	3.5	10
	Abbott Aeroset, Architect	-	-	-	1
	AU instruments	-	-	-	1
	Roche Cobas Integra Tina-quant	-	-	-	1
	Roche cobas Tina-quant	0.79	0.03	3.3	6
	Siemens Atellica	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Turbidometry (Hapto)		0.80	0.03	3.5	10
	Architect ci8200	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	-	-	-	1
	cobas c501	0.79	0.04	5.1	3
	cobas c502	0.81	0.02	3.1	2
	cobas c702	0.80	0.02	2.7	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Turbidometry (Hapto)		0.80	0.03	3.5	10
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.80	0.03	3.5	10

Serum A | IgA, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (IgA)	-	-	-	-	-	2.10	2.10	-	1
Turbidometry (IgA)	1.82	1.82	0.05	2.6	<0.01	1.72	1.90	1	28
All	1.83	1.82	0.06	3.2	0.01	1.72	2.01	1	29



■ All method groups ■ Siemens nephelometry (IgA)

■ All method groups ■ Turbidometry (IgA) (x_{pt} : 1.82 | Target area: 1.55-2.09 | Target: $\pm 15\%$)

Serum A | IgA, g/l, Additional summary

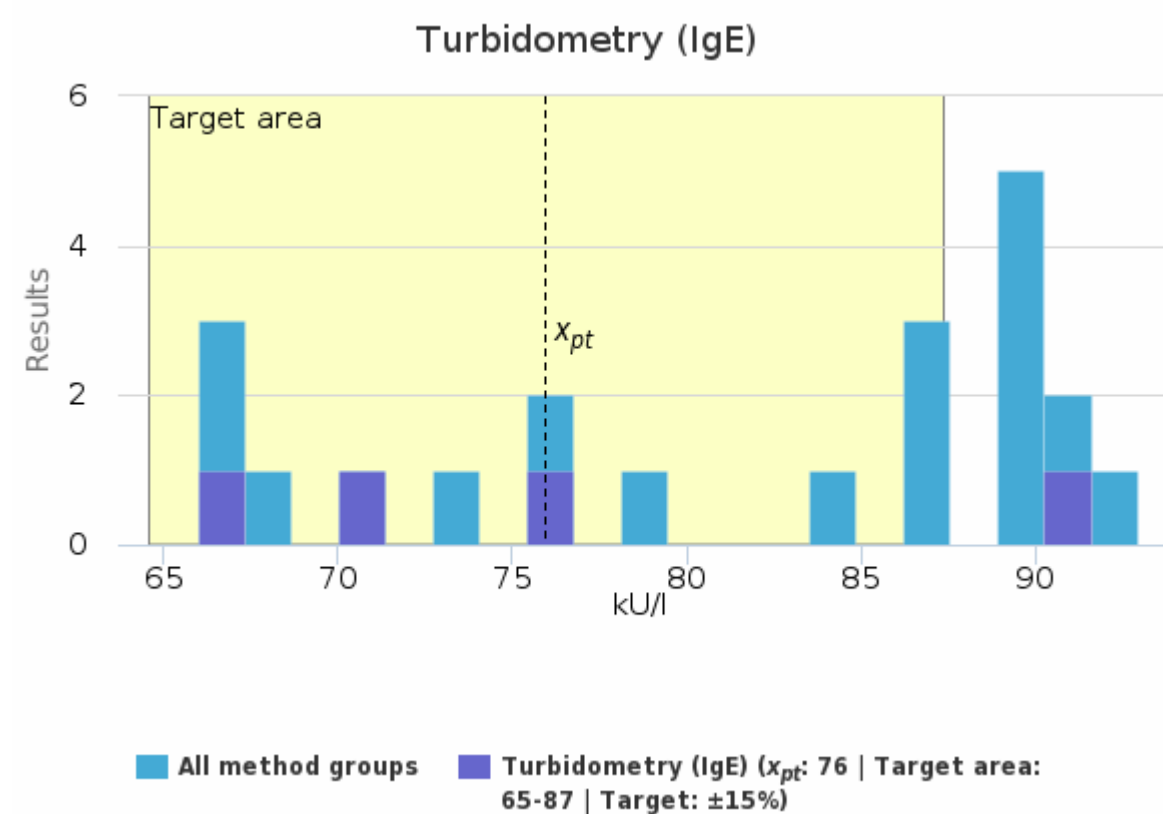
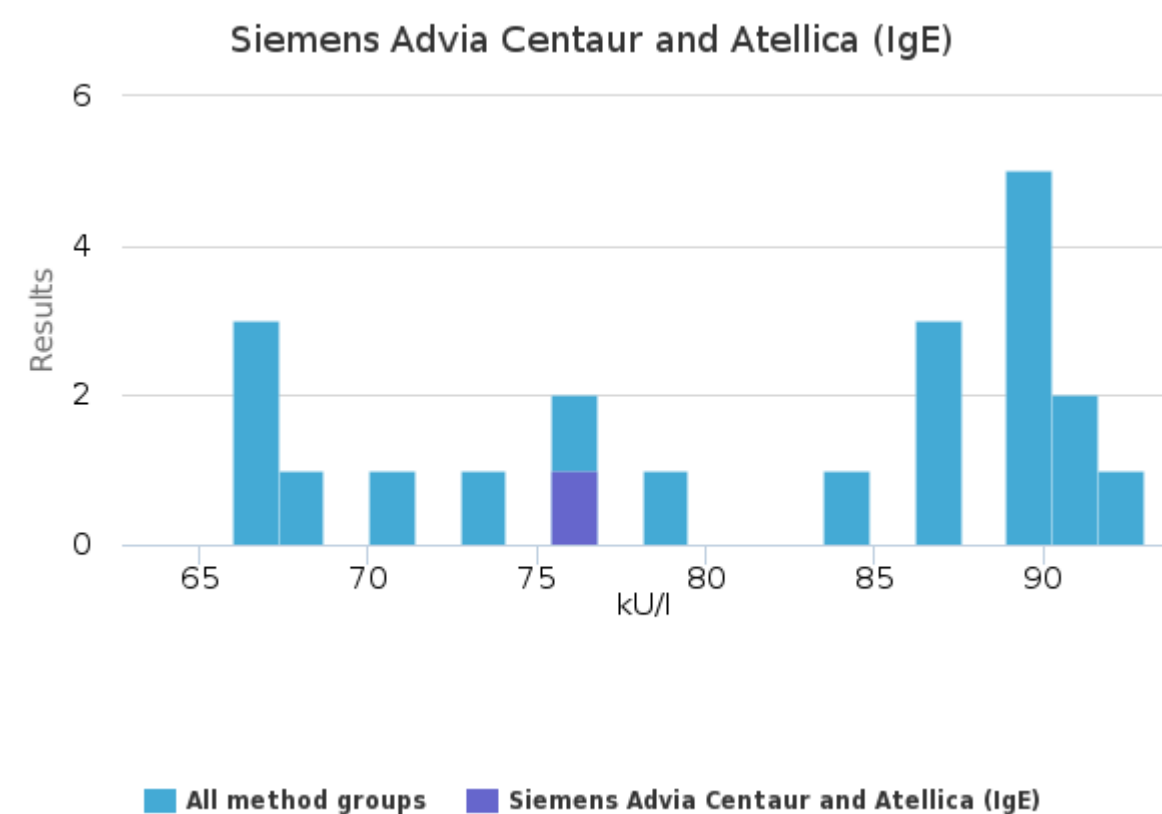
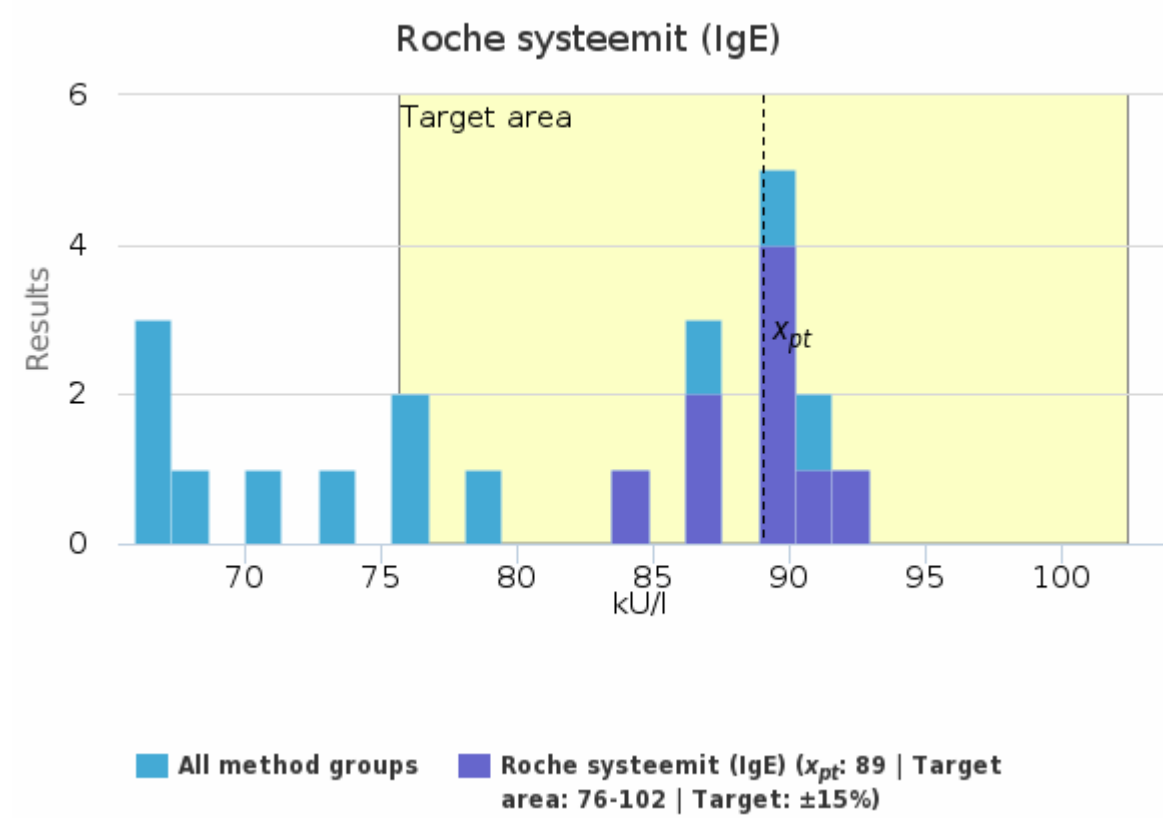
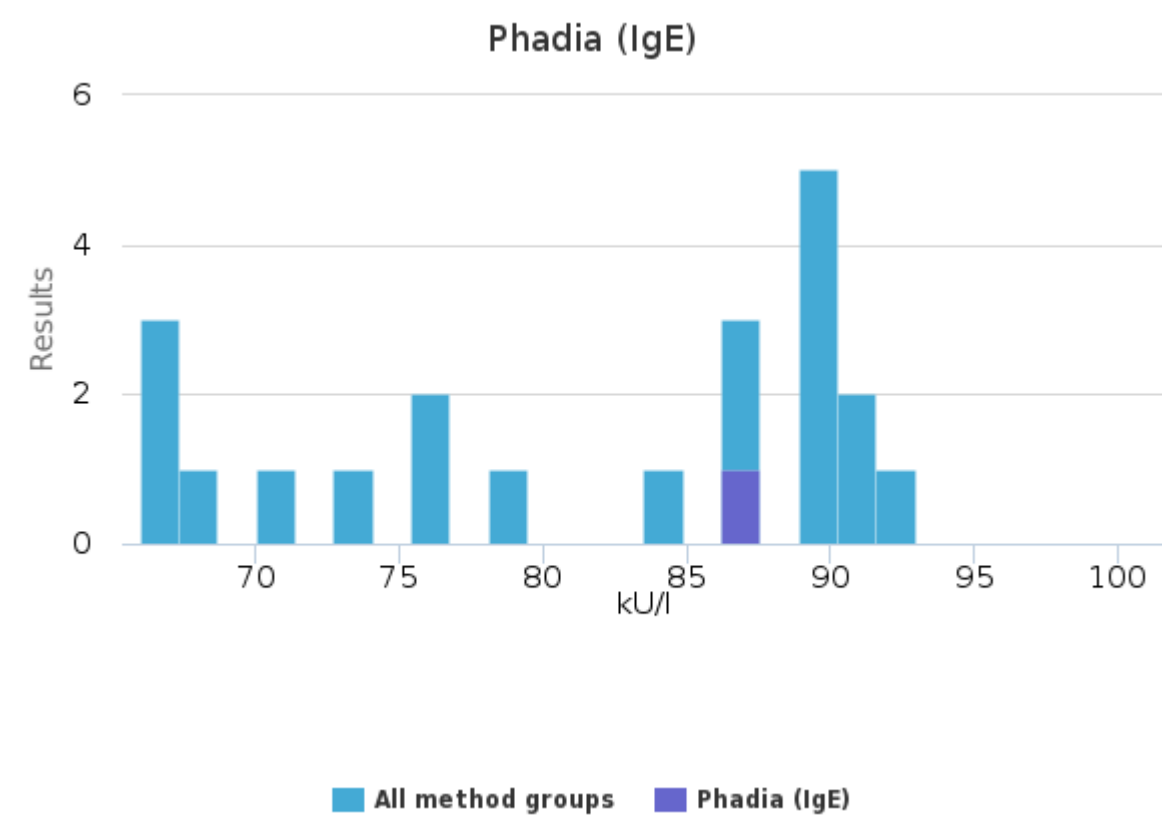
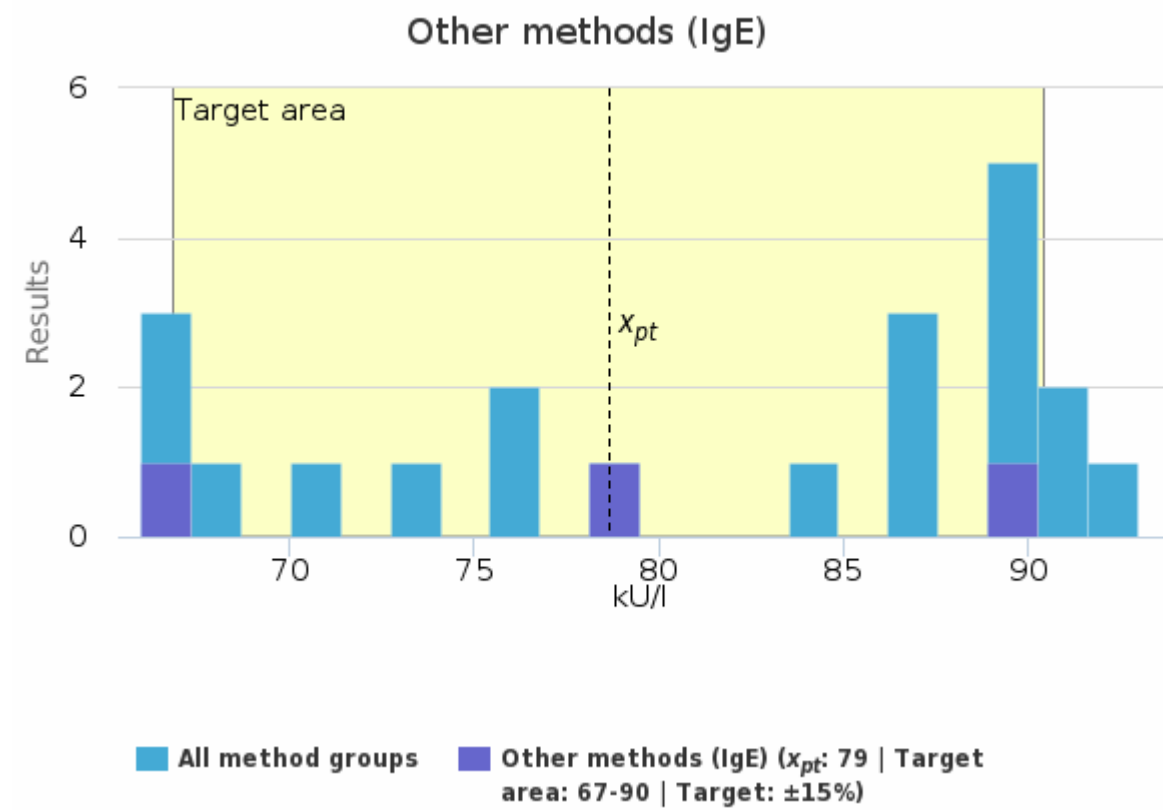
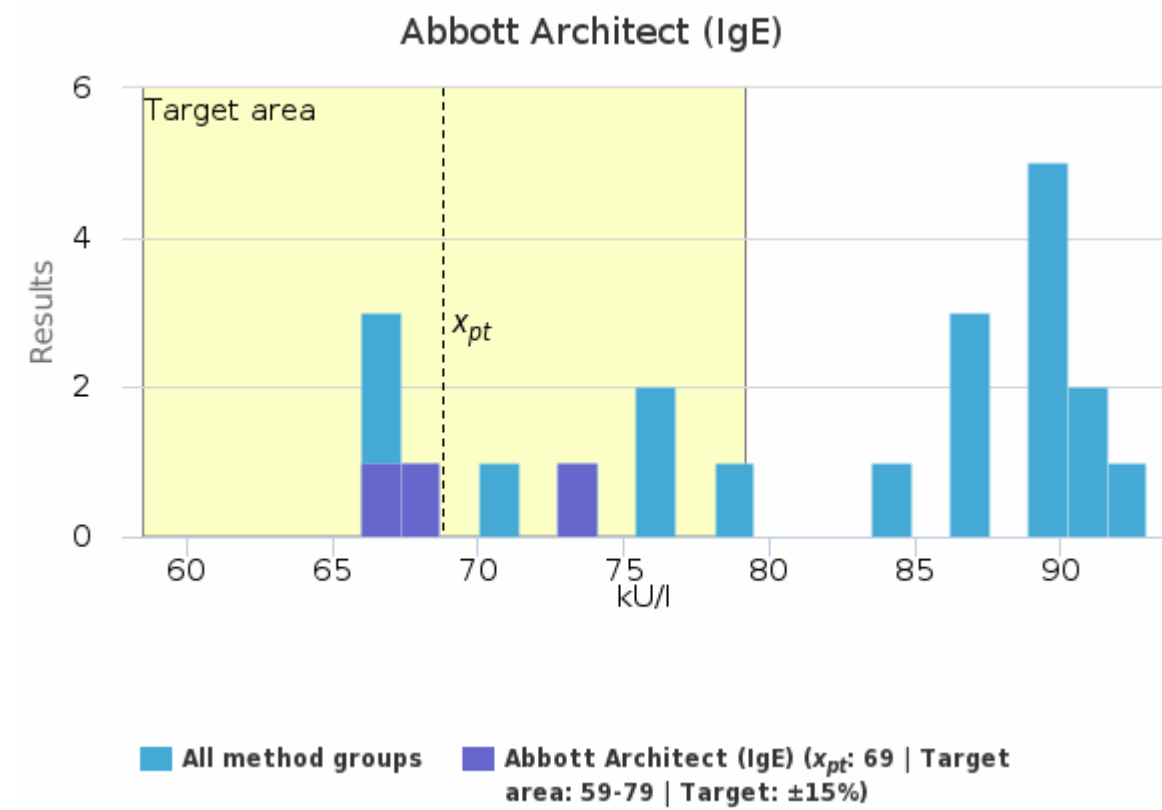
Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (IgA)		-	-	-	1
	Siemens BN instruments	-	-	-	1
Turbidometry (IgA)		1.82	0.05	2.6	28
	Abbott Aeroset, Architect	1.86	0.05	2.7	2
	Abbott Alinity	1.86	0.03	1.8	4
	AU instruments	1.85	0.02	0.8	3
	Roche Cobas Integra	1.83	0.09	5.0	2
	Roche cobas Tina-quant	1.80	0.04	2.3	13
	Roche Tina-quant	-	-	-	1
	Siemens Advia	-	-	-	1
	Siemens Atellica	-	-	-	1
	Thermo Scientific	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (IgA)		-	-	-	1
	BN ProSpec	-	-	-	1
Turbidometry (IgA)		1.82	0.05	2.6	28
	Advia 1800	-	-	-	1
	Alinity c	1.86	0.03	1.8	4
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	1.86	0.01	0.8	2
	AU 680	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	1.80	0.05	2.9	6
	cobas c502	1.79	0.06	3.3	2
	cobas c503	1.82	<0.01	0.3	3
	cobas c702	1.80	0.04	2.0	2
	Indiko Plus	-	-	-	1
	Integra 400 Plus	1.83	0.09	5.0	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (IgA)		-	-	-	1
	Antigen-antibody (Ag-Ab) complex; nephelometry	-	-	-	1
Turbidometry (IgA)		1.82	0.05	2.6	28
	Antigen-antibody (Ag-Ab) complex; turbidimetry	1.83	0.06	3.2	28

Serum A | IgE, kU/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (IgE)	69	68	4	5.4	2	66	73	-	3
Other methods (IgE)	79	79	12	15.0	7	67	90	-	3
Phadia (IgE)	-	-	-	-	-	87	87	-	1
Roche systeemit (IgE)	89	90	3	3.1	<1	84	93	-	9
Siemens Advia Centaur and Atellica (IgE)	-	-	-	-	-	76	76	-	1
Turbidometry (IgE)	76	73	11	14.3	5	66	91	-	4
All	81	87	10	12.0	2	66	93	-	21



Serum A | IgE, kU/l, Additional summary

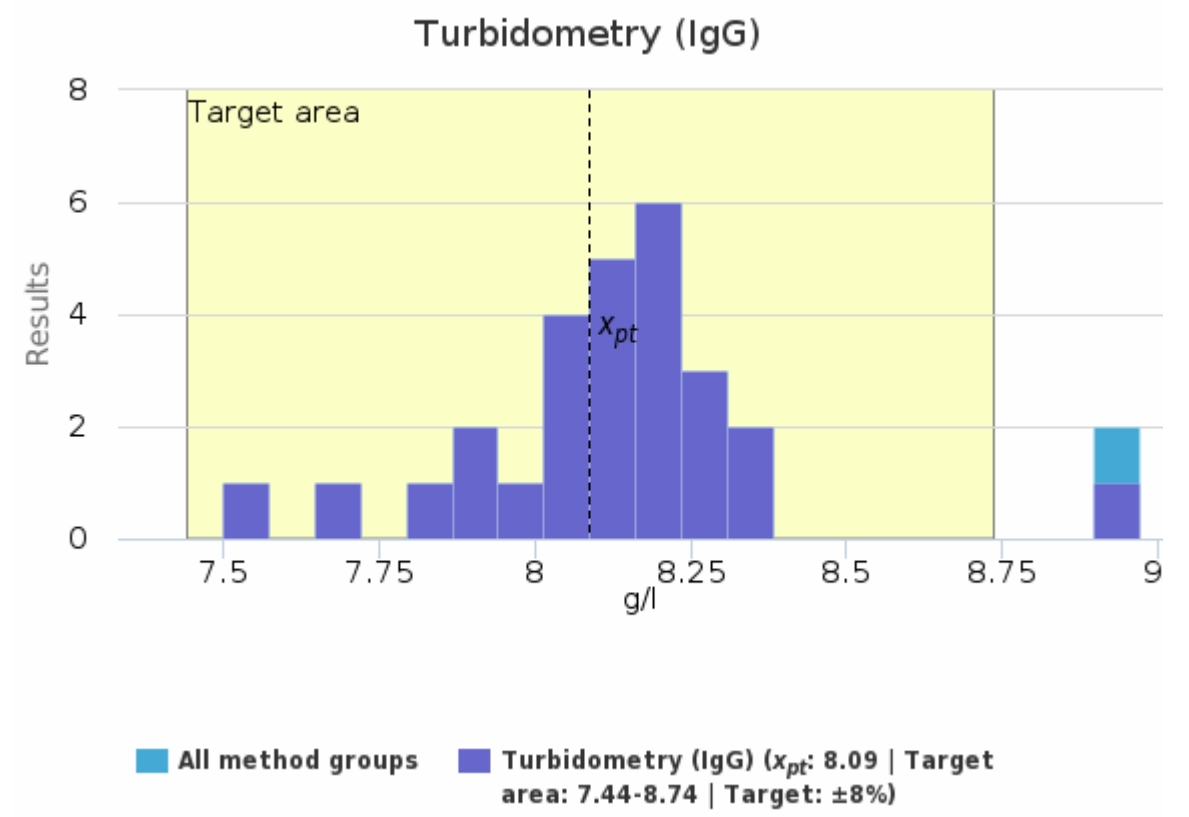
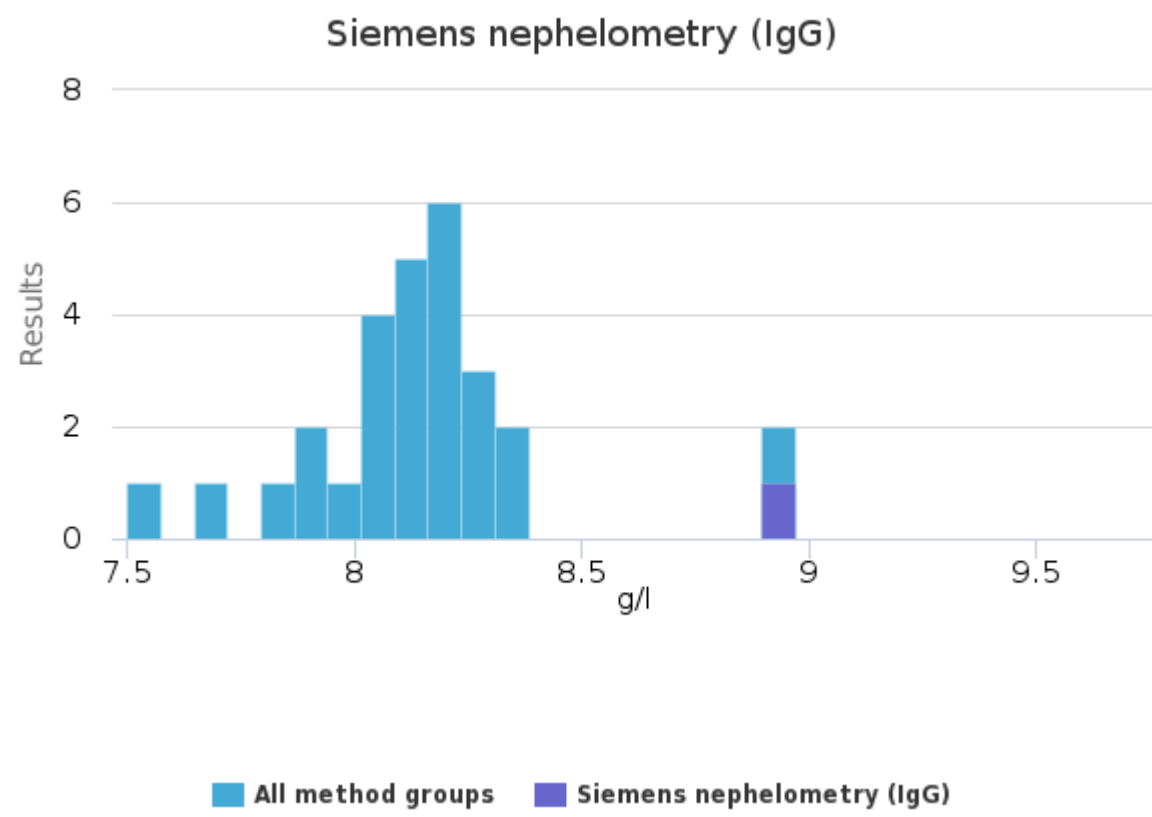
Methodics	Method	x_{pt}	sd	CV%	n
Abbott Architect (IgE)		69	4	5.4	3
	Abbott Aeroset, Architect	69	4	5.4	3
Other methods (IgE)		79	12	15.0	3
	bioMerieux Vidas	-	-	-	1
	Boditech	-	-	-	1
	Snibe Diagnostics Maglumi	-	-	-	1
Phadia (IgE)		-	-	-	1
	Phadia CAP IgE FEIA	-	-	-	1
Roche systeemit (IgE)		89	3	3.1	9
	Roche cobas	89	3	3.6	7
	Roche Elecsys	-	-	-	1
	Siemens Immulite 2000	-	-	-	1
Siemens Advia Centaur and Atellica (IgE)		-	-	-	1
	Siemens Advia Centaur	-	-	-	1
Turbidometry (IgE)		76	11	14.3	4
	bioMerieux Vidas	-	-	-	1
	Diasys	-	-	-	1
	Siemens Immulite 2000	83	11	13.1	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott Architect (IgE)		69	4	5.4	3
	Architect c8000	-	-	-	1
	Architect ci8200	67	1	1.6	2
Other methods (IgE)		79	12	15.0	3
	iChroma III Reader	-	-	-	1
	Maglumi 2000	-	-	-	1
	Vidas	-	-	-	1
Phadia (IgE)		-	-	-	1
	Phadia 250	-	-	-	1
Roche systeemit (IgE)		89	3	3.1	9
	cobas c501	-	-	-	1
	cobas e411	91	2	1.7	3
	cobas e601	88	2	1.8	3
	cobas e602	-	-	-	1
	Immulin 2000 XPi	-	-	-	1
Siemens Advia Centaur and Atellica (IgE)		-	-	-	1
	Advia Centaur XP	-	-	-	1
Turbidometry (IgE)		76	11	14.3	4
	Advia 1800	-	-	-	1
	Immulin 2000	-	-	-	1
	Immulin 2000 XPi	-	-	-	1
	Mini Vidas	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott Architect (IgE)		69	4	5.4	3
	Latex-agglutination, immunoturbidimetry	69	4	5.4	3
Other methods (IgE)		79	12	15.0	3
	Chemiluminescence immunoassay	-	-	-	1
	Enzyme immunoassay	-	-	-	1
	Enzym-fluoroimmunoassay	-	-	-	1
Phadia (IgE)		-	-	-	1
	Enzym-fluoroimmunoassay	-	-	-	1
Roche systeemit (IgE)		89	3	3.1	9
	Chemiluminescence immunoassay	-	-	-	1
	Electrochemiluminescence immunoassay	89	3	3.3	8
Siemens Advia Centaur and Atellica (IgE)		-	-	-	1
	Luminoimmunoassay	-	-	-	1
Turbidometry (IgE)		76	11	14.3	4
	Chemiluminescence immunoassay	83	11	13.1	2
	Enzym-fluoroimmunoassay	-	-	-	1
	Latex-agglutination, immunoturbidimetry	-	-	-	1

Serum A | IgG, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (IgG)	-	-	-	-	-	8.92	8.92	-	1
Turbidometry (IgG)	8.09	8.13	0.20	2.5	0.04	7.50	8.38	1	27
All	8.15	8.15	0.30	3.6	0.06	7.50	8.97	-	28



Serum A | IgG, g/l, Additional summary

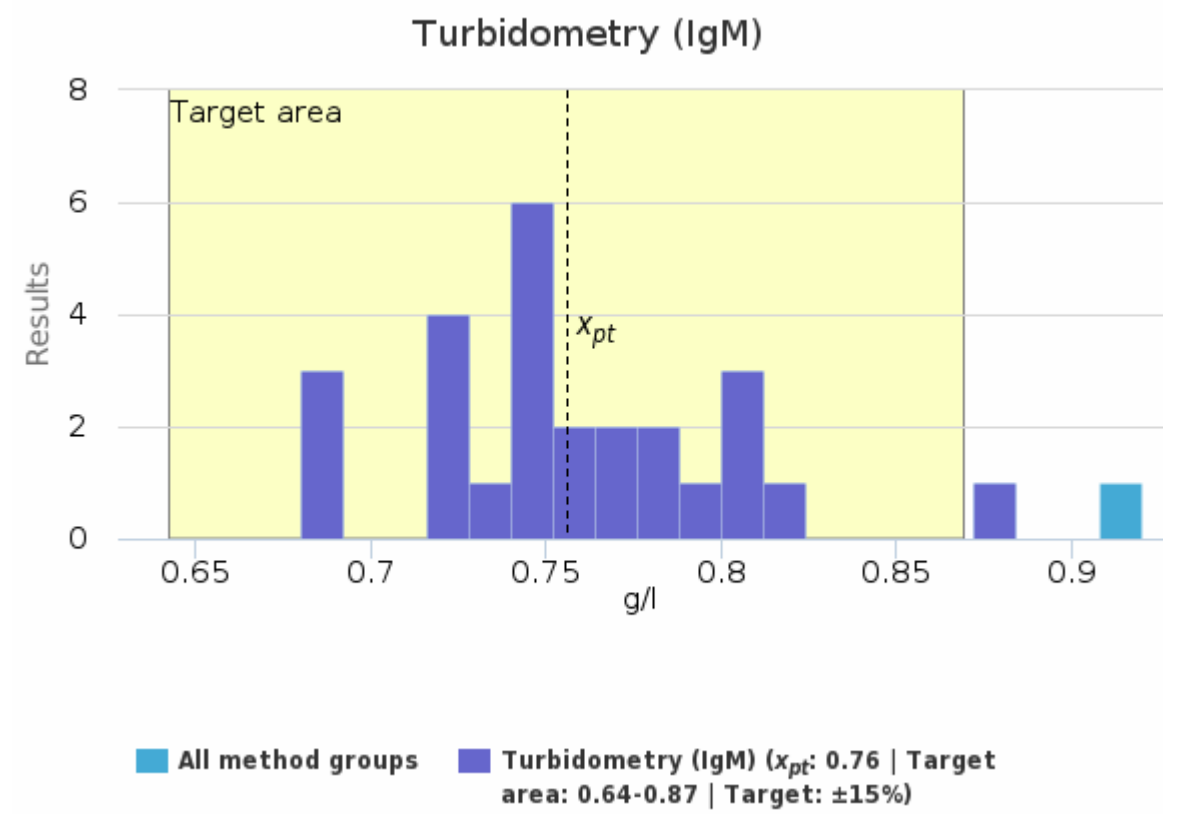
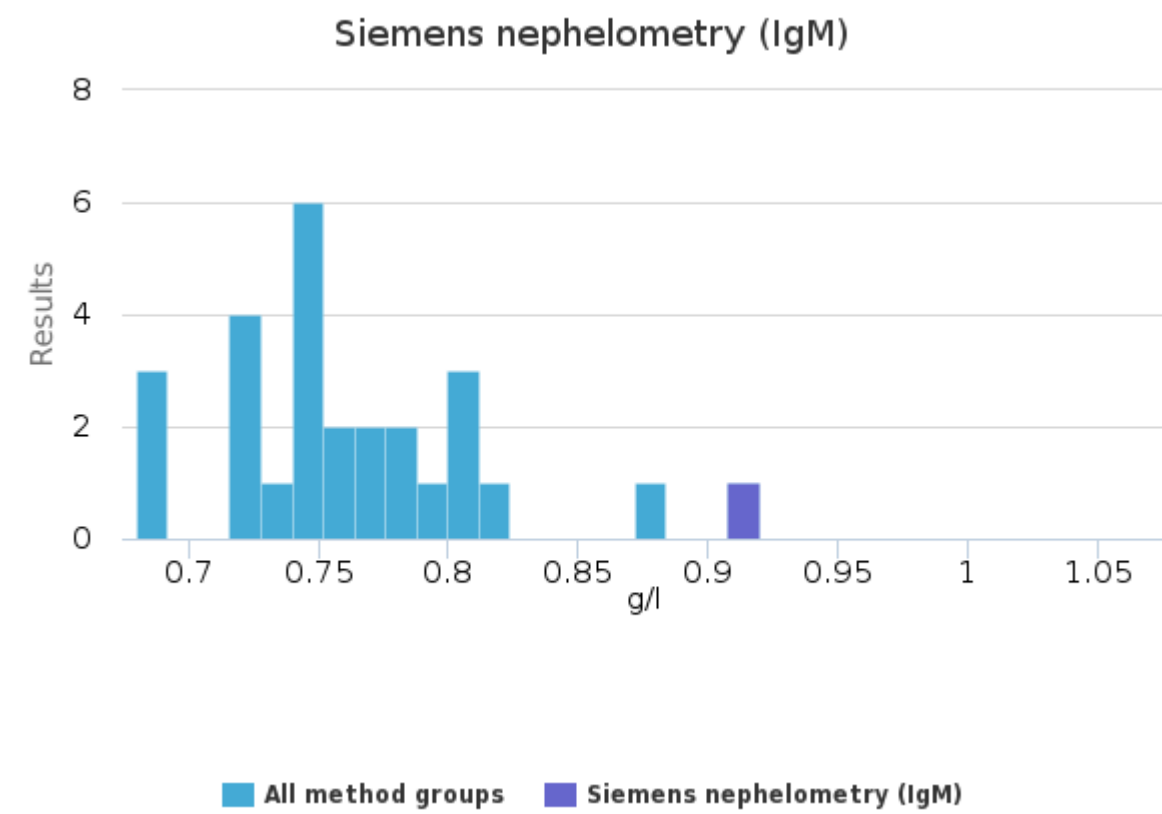
Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (IgG)		-	-	-	1
	Siemens BN instruments	-	-	-	1
Turbidometry (IgG)		8.09	0.20	2.5	27
	Abbott Aeroset, Architect	8.14	0.12	1.5	2
	Abbott Alinity	8.24	0.12	1.5	4
	AU instruments	8.43	0.47	5.5	3
	Roche Cobas Integra	7.75	0.07	0.9	2
	Roche cobas Tina-quant	8.12	0.11	1.3	11
	Roche Tina-quant	8.15	0.33	4.0	2
	Siemens Advia	-	-	-	1
	Siemens Atellica	-	-	-	1
	Thermo Scientific	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (IgG)		-	-	-	1
	BN ProSpec	-	-	-	1
Turbidometry (IgG)		8.09	0.20	2.5	27
	Advia 1800	-	-	-	1
	Alinity c	8.24	0.12	1.5	4
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	8.57	0.57	6.6	2
	AU 680	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	8.11	0.12	1.4	6
	cobas c502	8.14	0.17	2.1	2
	cobas c503	8.25	0.19	2.3	2
	cobas c702	8.05	0.21	2.6	2
	Indiko Plus	-	-	-	1
	Integra 400 Plus	7.75	0.07	0.9	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (IgG)		-	-	-	1
	Antigen-antibody (Ag-Ab) complex; nephelometry	-	-	-	1
Turbidometry (IgG)		8.09	0.20	2.5	27
	Antigen-antibody (Ag-Ab) complex; turbidimetry	8.12	0.26	3.2	27

Serum A | IgM, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (IgM)	-	-	-	-	-	0.92	0.92	-	1
Turbidometry (IgM)	0.76	0.75	0.04	5.9	<0.01	0.68	0.88	-	26
All	0.76	0.75	0.04	5.9	<0.01	0.68	0.88	1	27



Serum A | IgM, g/l, Additional summary

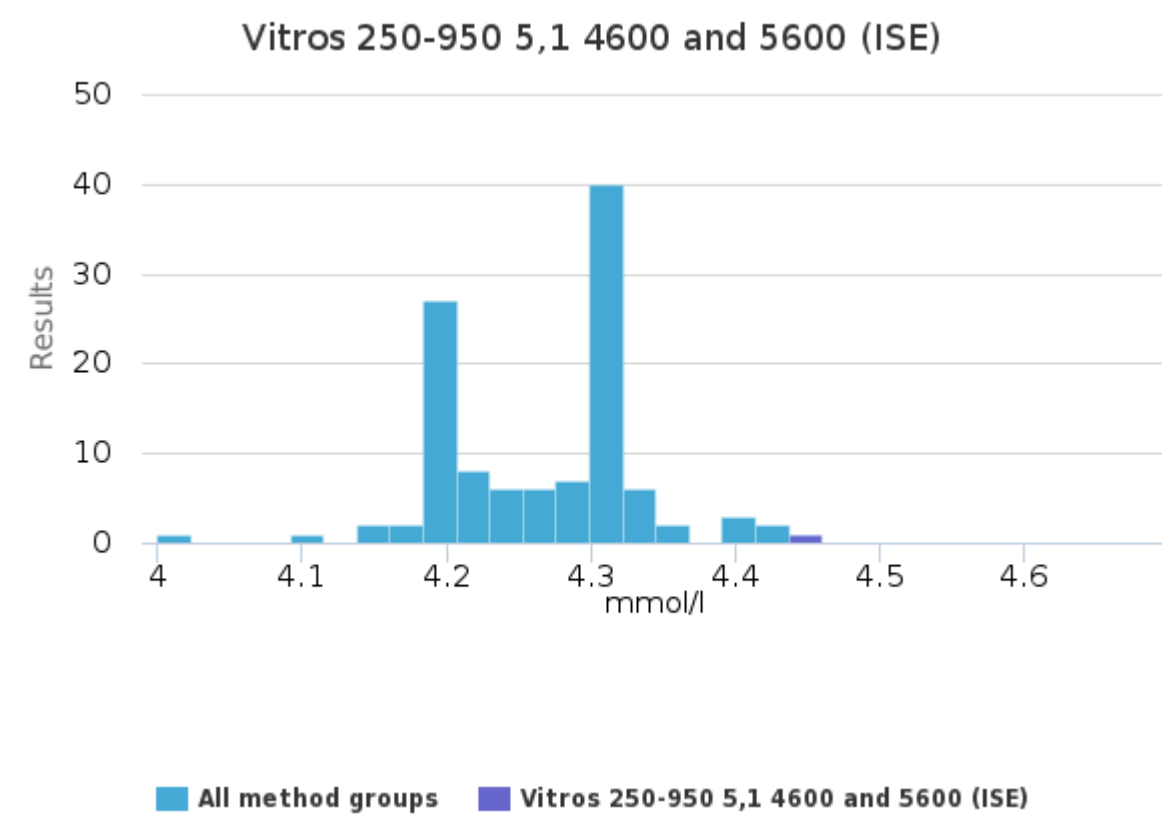
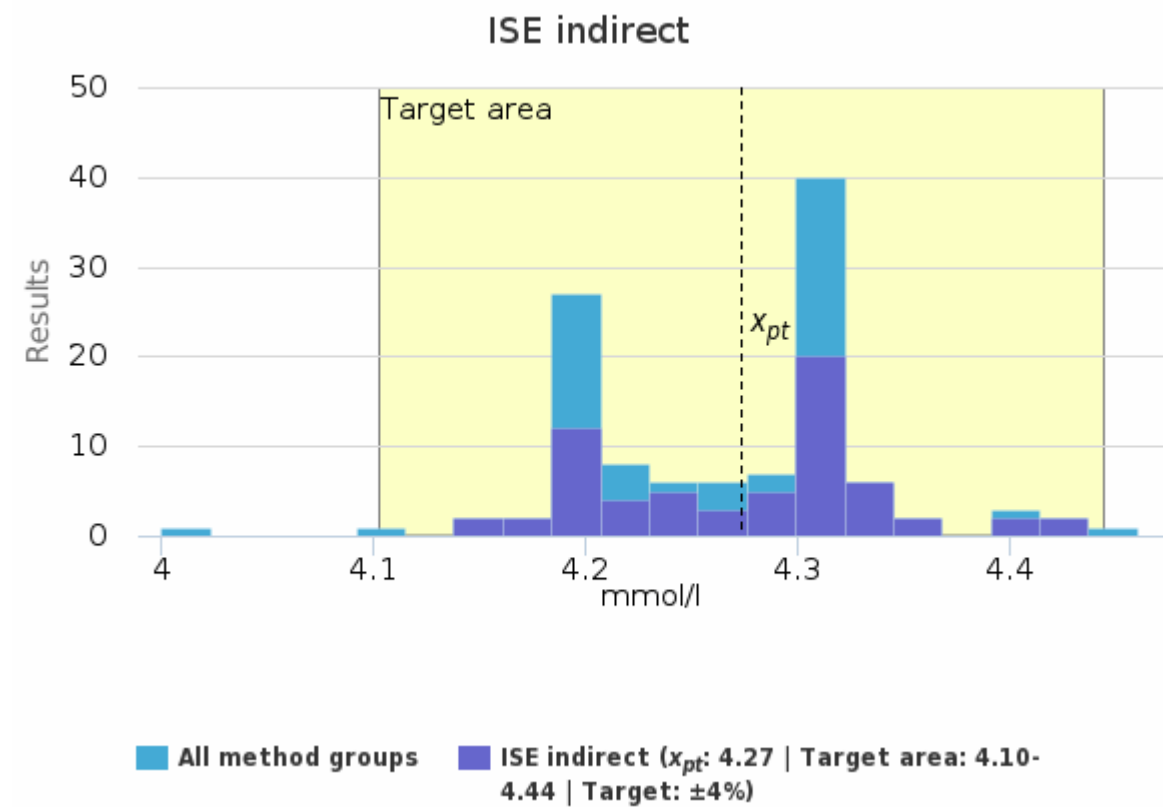
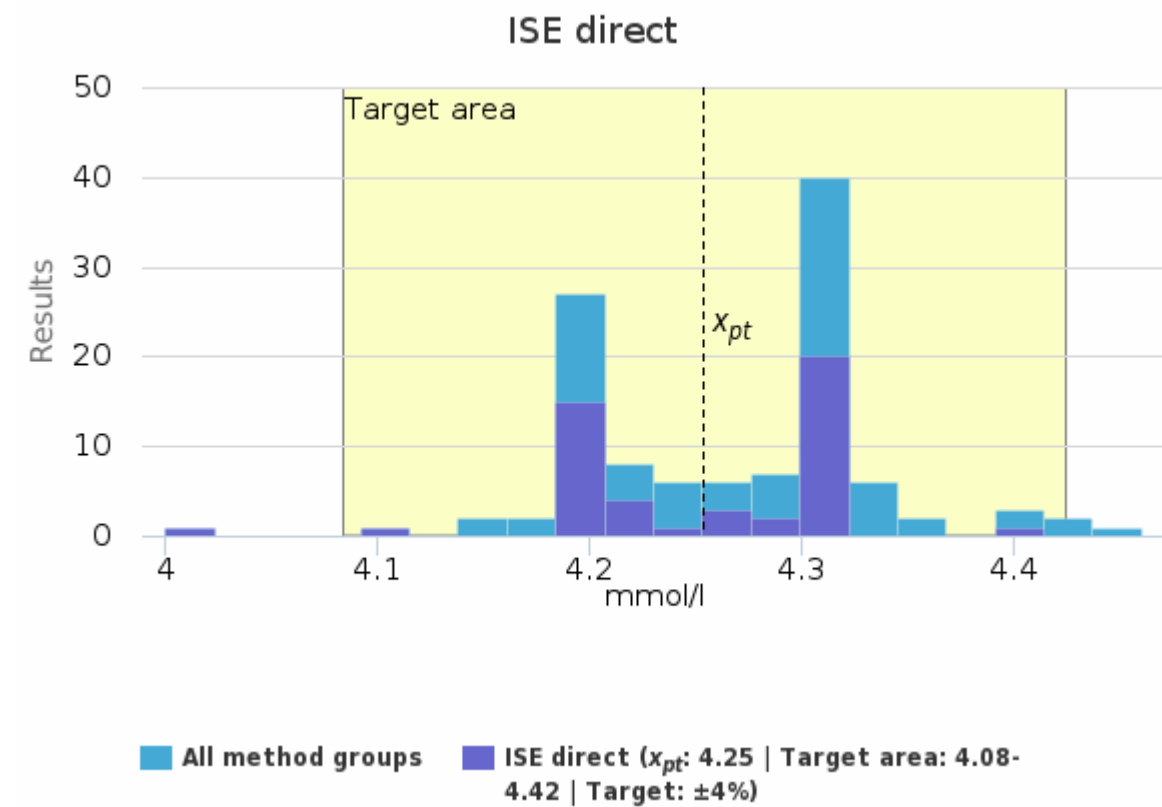
Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (IgM)		-	-	-	1
	Siemens BN instruments	-	-	-	1
Turbidometry (IgM)		0.76	0.04	5.9	26
	Abbott Aeroset, Architect	0.78	0.04	4.6	2
	Abbott Alinity	0.74	0.02	2.0	4
	AU instruments	0.81	0.07	8.7	3
	Roche Cobas Integra	0.69	<0.01	1.0	2
	Roche cobas Tina-quant	0.76	0.04	5.1	11
	Roche Tina-quant	-	-	-	1
	Siemens Advia	-	-	-	1
	Siemens Atellica	-	-	-	1
	Thermo Scientific	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (IgM)		-	-	-	1
	BN ProSpec	-	-	-	1
Turbidometry (IgM)		0.76	0.04	5.9	26
	Advia 1800	-	-	-	1
	Alinity c	0.74	0.02	2.0	4
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	0.84	0.06	6.7	2
	AU 680	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	0.78	0.04	4.9	6
	cobas c502	0.73	0.06	8.5	2
	cobas c503	-	-	-	1
	cobas c702	0.75	0.04	4.7	2
	Indiko Plus	-	-	-	1
	Integra 400 Plus	0.69	<0.01	1.0	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (IgM)		-	-	-	1
	Antigen-antibody (Ag-Ab) complex; nephelometry	-	-	-	1
Turbidometry (IgM)		0.76	0.04	5.9	26
	Antigen-antibody (Ag-Ab) complex; turbidimetry	0.76	0.04	5.9	26

Serum A | K, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	4.25	4.27	0.06	1.3	<0.01	4.10	4.40	1	48
ISE indirect	4.27	4.29	0.07	1.5	<0.01	4.15	4.43	-	65
Vitros 250-950 5,1 4600 and 5600 (ISE)	-	-	-	-	-	4.46	4.46	-	1
All	4.27	4.29	0.06	1.5	<0.01	4.10	4.46	1	114



Serum A | K, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		4.25	0.06	1.3	48
	Easylite	4.11	0.15	3.6	2
	Easystat	4.25	0.05	1.2	2
	IL blood gas and electrolyte analysers	-	-	-	1
	KVERTIMED	-	-	-	1
	Nova Biomedical electrolyte analysers	-	-	-	1
	Radiometer blood gas analyzer	-	-	-	1
	Roche blood gas and electrolyte analysers	-	-	-	1
	SENSACORE	-	-	-	1
	Thermo Scientific	4.26	0.05	1.3	35
	Thermo Scientific electrolyte analysers	4.27	0.03	0.7	3
ISE indirect		4.27	0.07	1.5	65
	Abbott Aeroset, Architect	4.19	0.01	0.3	5
	Abbott Alinity	4.22	0.03	0.7	4
	AU instruments	4.24	0.06	1.4	5
	Roche cobas	4.29	0.07	1.5	40
	Roche Cobas Integra	4.29	0.02	0.4	3
	Siemens Advia	4.31	0.01	0.3	5

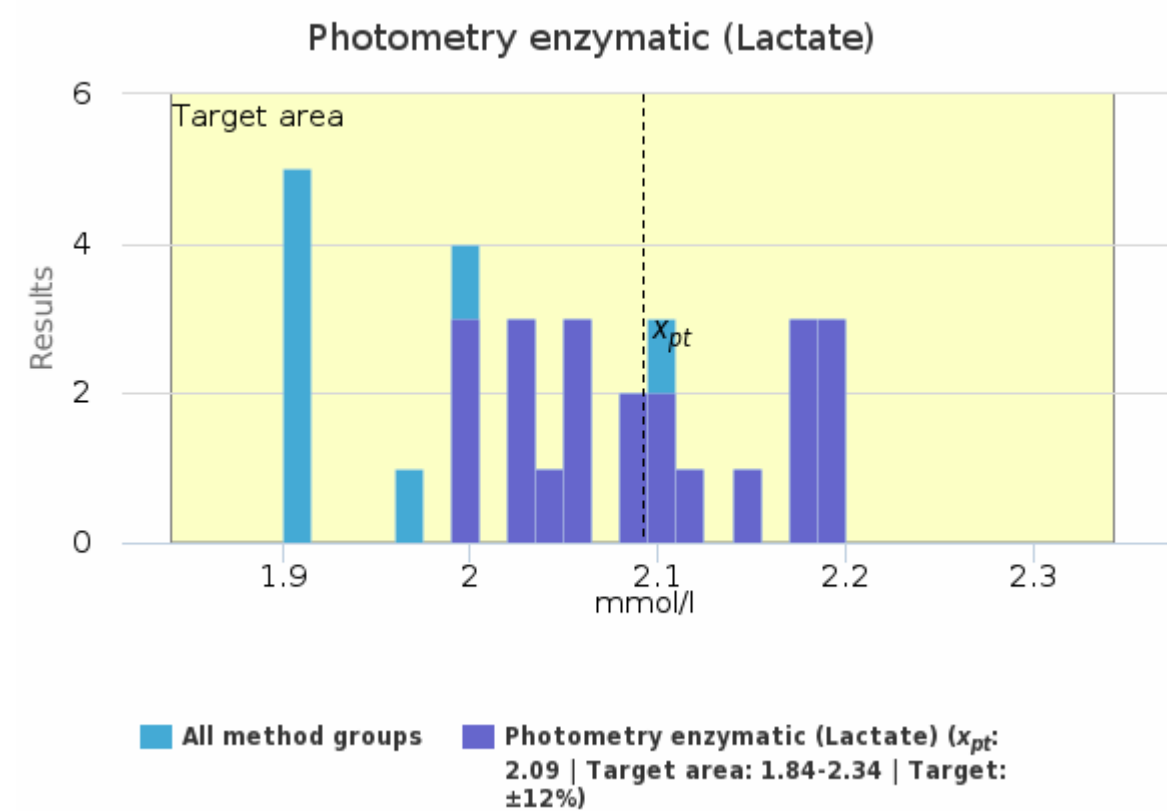
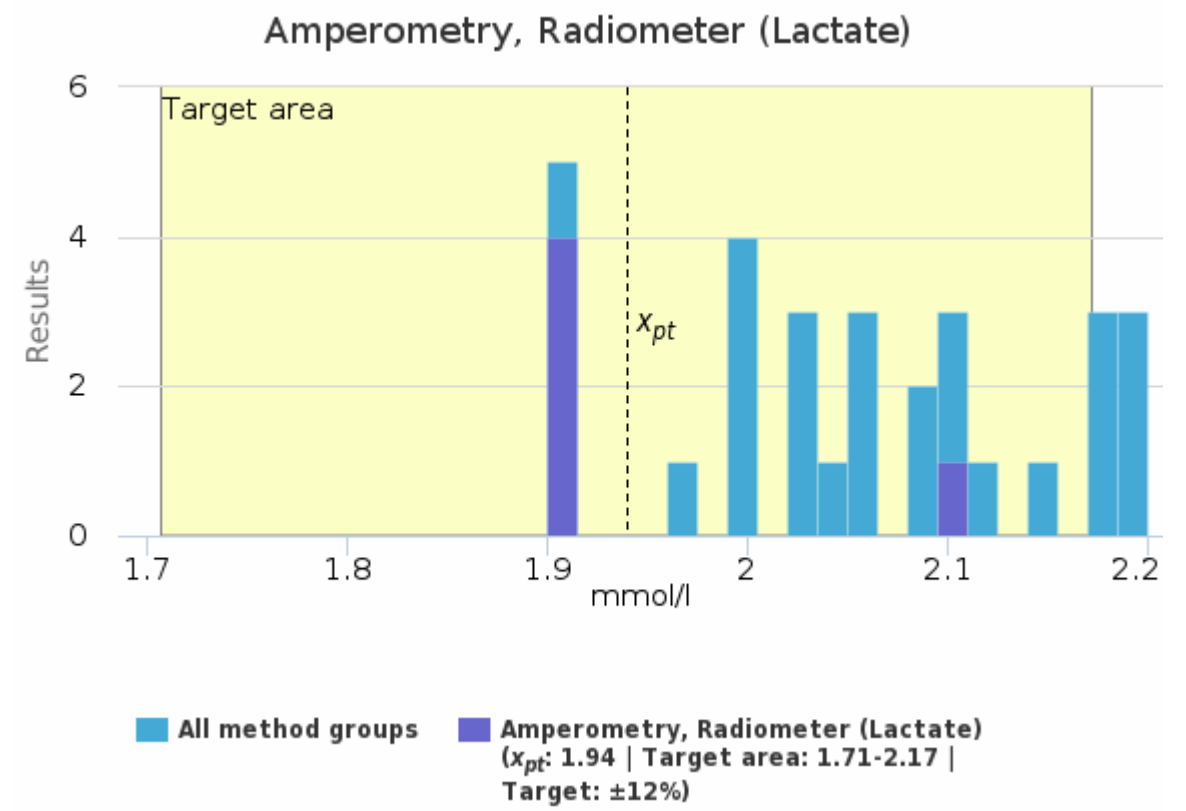
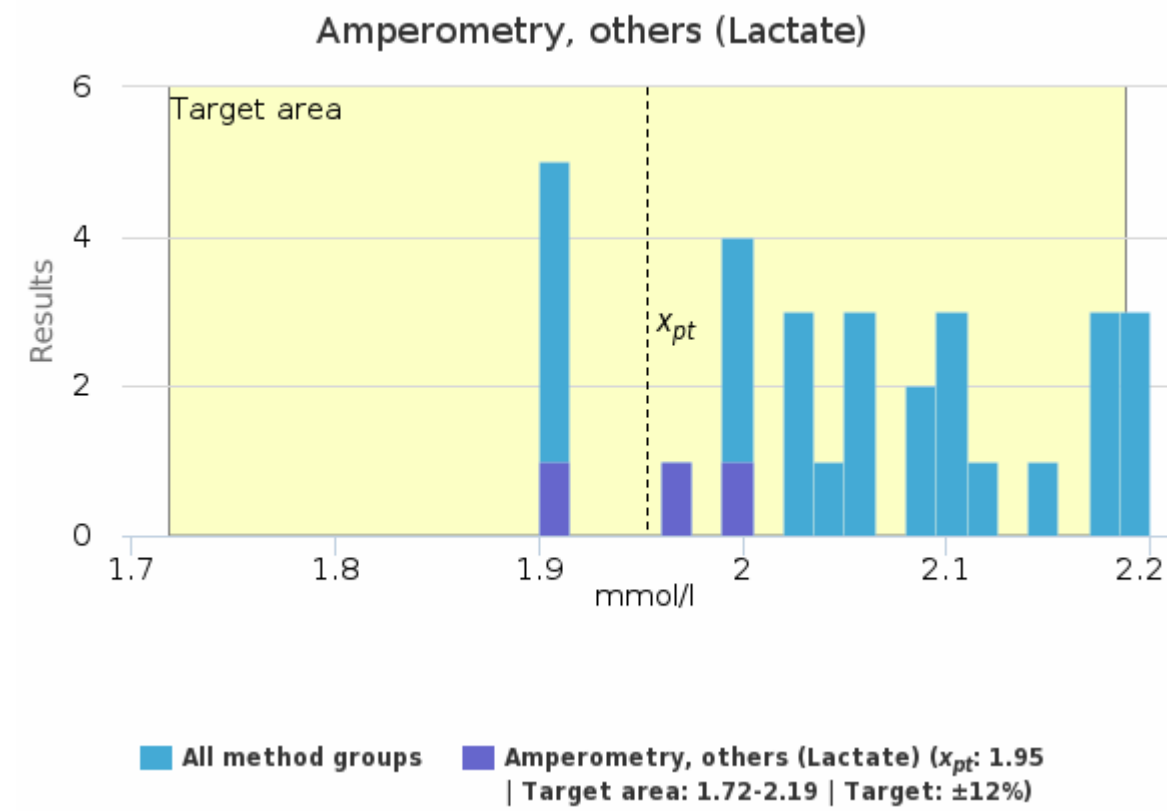
	Siemens Dimension	4.24	0.08	1.9	3
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		4.25	0.06	1.3	48
	ABL 800	-	-	-	1
	AVL 9180	-	-	-	1
	EasyLyte	4.11	0.15	3.6	2
	EasyStat	4.25	0.05	1.2	2
	ELECTROLYTE ANALYZER EL-5	-	-	-	1
	GEM Premier 4000	-	-	-	1
	Indiko	4.24	0.05	1.2	2
	Indiko Plus	4.24	0.04	1.0	11
	Konelab Prime 30	4.30	0.14	3.3	2
	Konelab PRIME 60i	4.29	0.03	0.7	10
	Konelab 20	-	-	-	1
	Konelab 20i	4.23	0.05	1.1	7
	Konelab 20XTi	-	-	-	1
	Konelab 30i	4.27	0.06	1.4	3
	Konelab 60i	-	-	-	1
	SENSA CORE ST-200 Aqua Electrolyte Analyzer	-	-	-	1
	Stat Profile Prime Electrolyte Analyzer	-	-	-	1
ISE indirect		4.27	0.07	1.5	65
	Advia Chemistry XPT	4.30	<0.01	<0.1	4
	Advia 1800	-	-	-	1
	Alinity c	4.22	0.03	0.7	4
	Architect c8000	-	-	-	1
	Architect ci4100	4.18	<0.01	<0.1	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	4.20	0.07	1.7	2
	AU 680	4.26	0.05	1.2	3
	cobas c303	-	-	-	1
	cobas c311	4.30	0.04	0.9	4
	cobas c501	4.30	0.07	1.7	25
	cobas c503	4.27	0.07	1.6	5
	cobas c702	4.27	0.06	1.3	5
	Dimension EXL	4.29	<0.01	<0.1	2
	Dimension EXL 200	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	4.29	0.02	0.5	2
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		4.25	0.06	1.3	48
	Direct potentiometry	4.25	0.07	1.6	48
ISE indirect		4.27	0.07	1.5	65
	Indirect potentiometry	4.27	0.07	1.5	65
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Direct potentiometry	-	-	-	1

Serum A | Lactate, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Amperometry, others (Lactate)	1.95	1.96	0.05	2.6	0.03	1.90	2.00	-	3
Amperometry, Radiometer (Lactate)	1.94	1.90	0.09	4.6	0.04	1.90	2.10	-	5
Photometry enzymatic (Lactate)	2.09	2.09	0.07	3.3	0.01	2.00	2.20	-	22
All	2.05	2.06	0.10	4.6	0.02	1.90	2.20	-	30



Serum A | Lactate, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Amperometry, others (Lactate)		1.95	0.05	2.6	3
	EKF Diagnostics	-	-	-	1
	IL blood gas and electrolyte analysers	1.95	0.07	3.6	2
Amperometry, Radiometer (Lactate)		1.94	0.09	4.6	5
	Radiometer blood gas analyzer	1.94	0.09	4.6	5
Photometry enzymatic (Lactate)		2.09	0.07	3.3	22
	Abbott Aeroset, Architect	-	-	-	1
	Abbott Alinity	2.13	0.06	3.0	3
	AU instruments	2.16	0.06	2.8	3
	Roche cobas	2.06	0.06	2.9	11
	Roche Cobas Integra	2.15	0.07	3.3	2
	Thermo Scientific	2.06	0.04	2.1	2

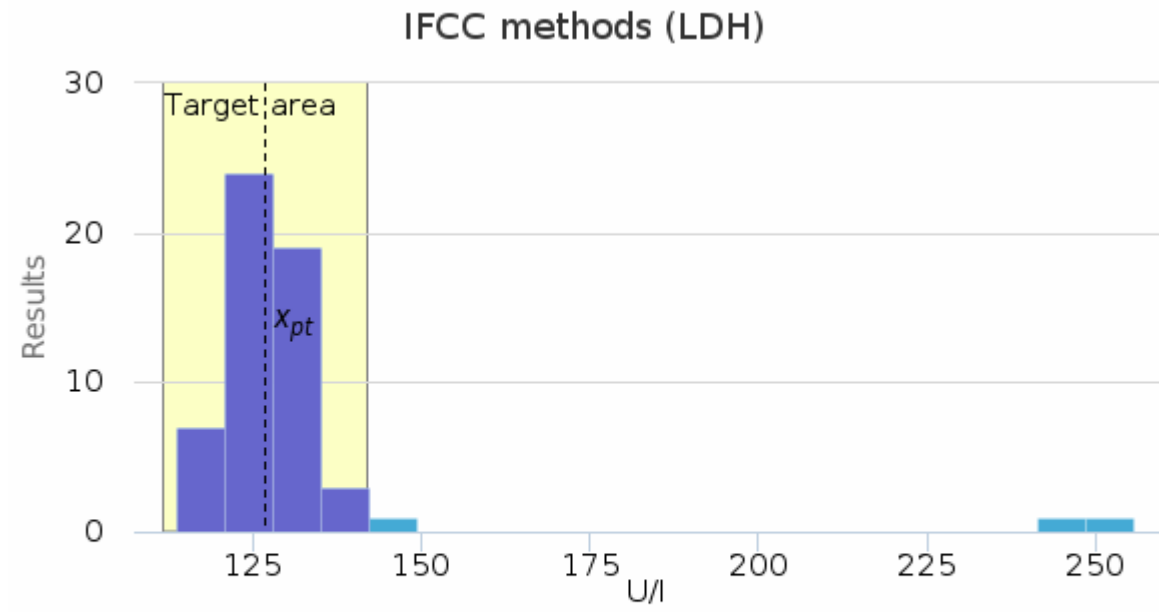
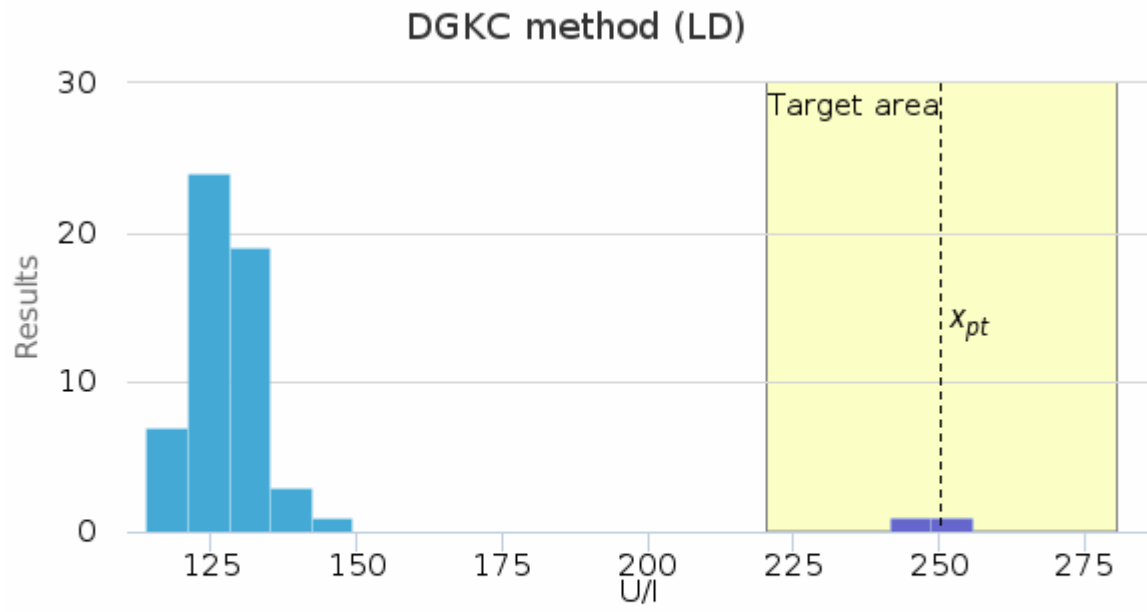
Methodics	Instrument	x_{pt}	sd	CV%	n
Amperometry, others (Lactate)		1.95	0.05	2.6	3
	Biosen S-line	-	-	-	1
	GEM Premier 4000	1.95	0.07	3.6	2

Amperometry, Radiometer (Lactate)		1.94	0.09	4.6	5
	ABL 800	-	-	-	1
	ABL 90 FLEX	1.97	0.12	5.9	3
	ABL 90 FLEX PLUS	-	-	-	1
Photometry enzymatic (Lactate)		2.09	0.07	3.3	22
	Alinity c	2.13	0.06	3.0	3
	Architect ci8200	-	-	-	1
	AU 480	-	-	-	1
	AU 680	2.15	0.08	3.6	2
	cobas c311	-	-	-	1
	cobas c501	2.06	0.07	3.4	7
	cobas c502	-	-	-	1
	cobas c702	2.06	<0.01	0.3	2
	Integra 400 Plus	2.15	0.07	3.3	2
	Konelab 20XT	-	-	-	1
	Konelab 60i	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Amperometry, others (Lactate)		1.95	0.05	2.6	3
	Lactate oxidase / H2O2 electrode; amperometry	1.95	0.05	2.6	3
Amperometry, Radiometer (Lactate)		1.94	0.09	4.6	5
	Lactate oxidase / H2O2 electrode; amperometry	1.94	0.09	4.6	5
Photometry enzymatic (Lactate)		2.09	0.07	3.3	22
	Lactate, NAD / NADH; photometry	2.06	0.08	3.7	4
	Lactate oxidase / H2O2 / 4-aminoantipyrene; photometry	2.10	0.07	3.2	17
	LD / hydrazine / NADH; photometry	-	-	-	1

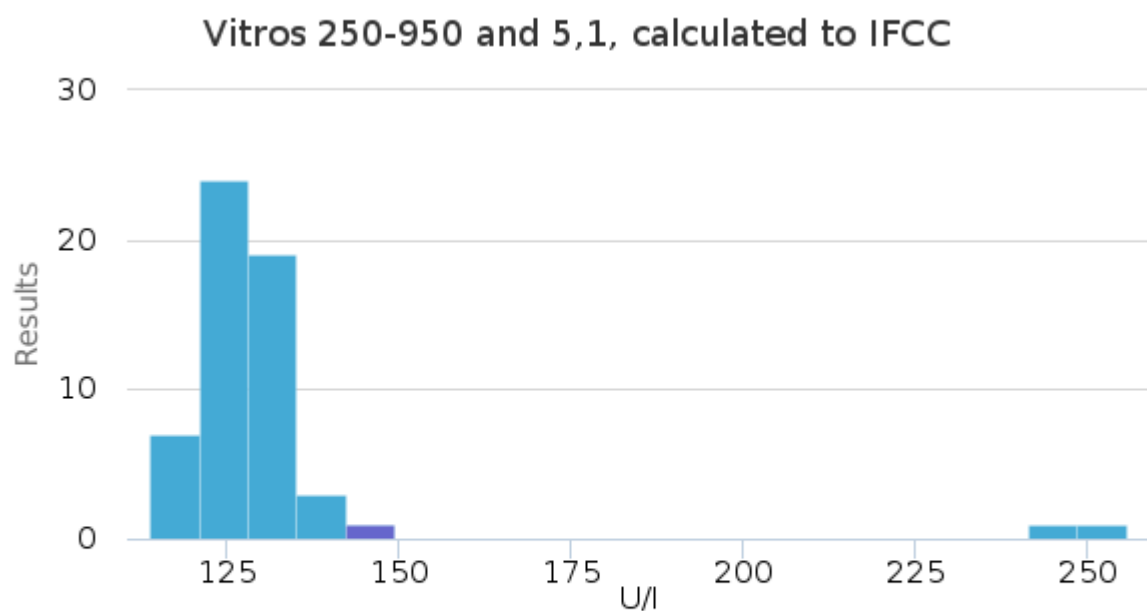
Serum A | LD, U/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
DGKC method (LD)	250	250	8	3.0	5	245	256	-	2
IFCC methods (LDH)	127	127	6	4.4	<1	114	138	-	53
Vitros 250-950 and 5,1, calculated to IFCC	-	-	-	-	-	146	146	-	1
All	127	127	6	4.8	<1	114	146	2	56



■ All method groups ■ DGKC method (LD) (x_{pt} : 250 | Target area: 220-280 | Target: $\pm 12\%$)

■ All method groups ■ IFCC methods (LDH) (x_{pt} : 127 | Target area: 112-142 | Target: $\pm 12\%$)



■ All method groups ■ Vitros 250-950 and 5,1, calculated to IFCC

Serum A | LD, U/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
DGKC method (LD)		250	8	3.0	2
	Cormay	-	-	-	1
	Erba	-	-	-	1
IFCC methods (LDH)		127	6	4.4	53
	Abbott Aeroset, Architect	125	1	1.1	2
	Abbott Alinity	124	7	5.7	4
	AU instruments	126	7	5.8	7
	Roche	-	-	-	1
	Roche cobas	127	5	3.8	29
	Roche Cobas Integra	132	3	2.1	2
	Siemens Advia	133	3	1.9	4
	Siemens Dimension	120	8	6.5	2
	Thermo Scientific	129	2	1.7	2
Vitros 250-950 and 5,1, calculated to IFCC		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

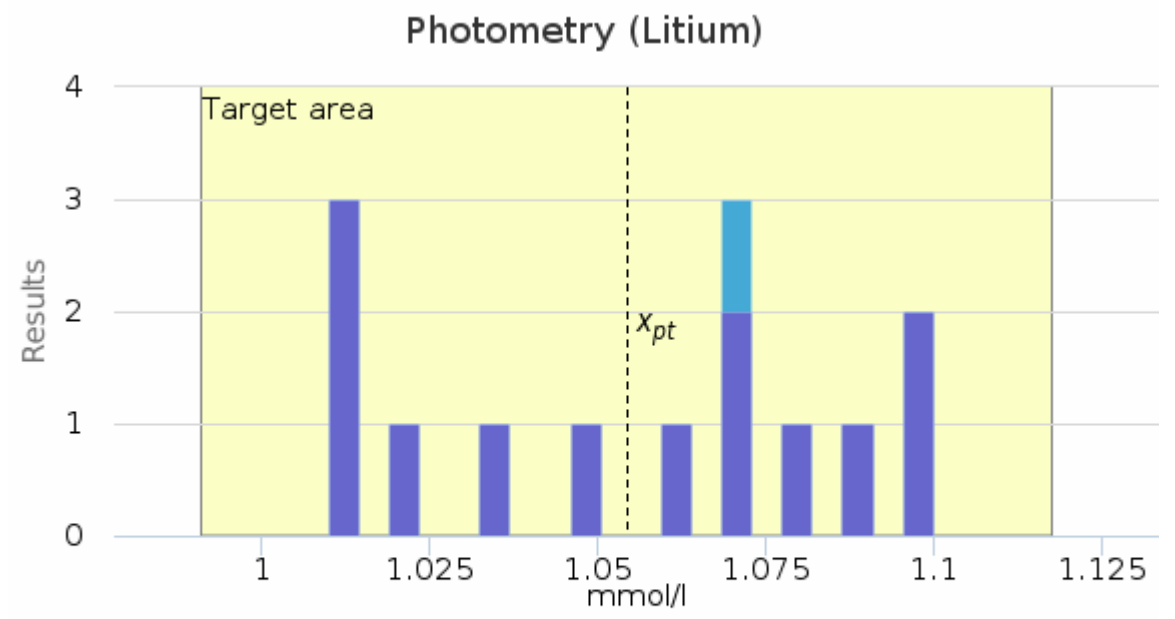
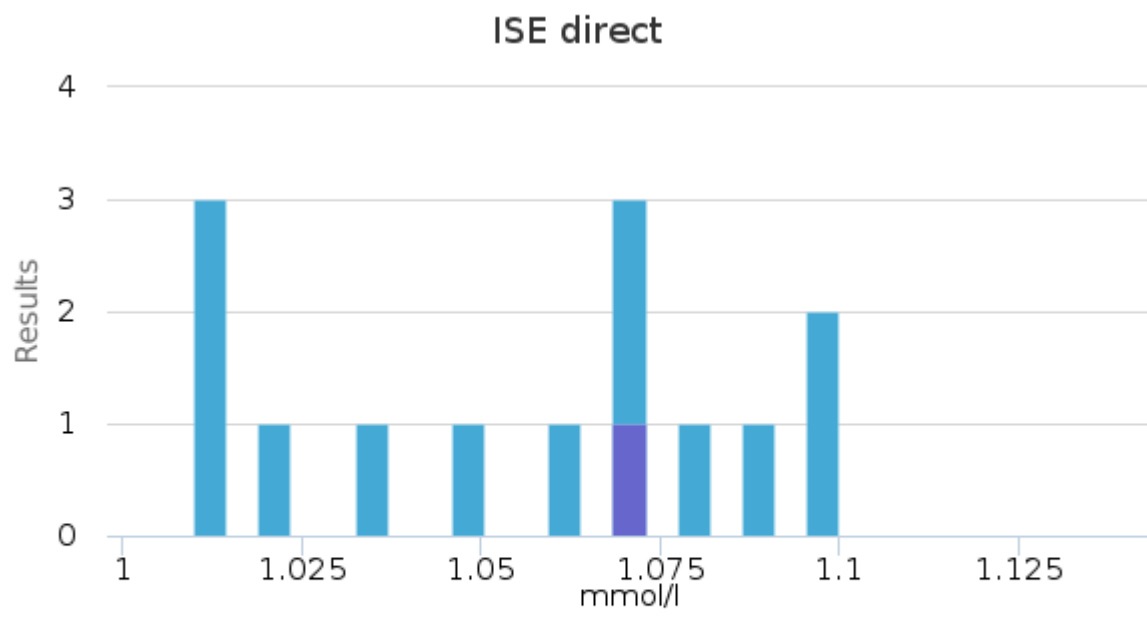
Methodics	Instrument	x_{pt}	sd	CV%	n
-----------	------------	----------	----	-----	---

DGKC method (LD)		250	8	3.0	2
	Erba XL 100	-	-	-	1
	Sapphire 400	-	-	-	1
IFCC methods (LDH)		127	6	4.4	53
	Advia Chemistry XPT	132	2	1.6	3
	Advia 1800	-	-	-	1
	Alinity c	124	7	5.7	4
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	127	9	7.1	4
	AU 680	124	5	4.3	3
	cobas c303	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	129	5	3.8	20
	cobas c503	124	1	0.9	3
	cobas c702	124	2	1.6	5
	Dimension EXL	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Indiko Plus	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	-	-	-	1
	Konelab 60i	-	-	-	1
Vitros 250-950 and 5,1, calculated to IFCC		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
DGKC method (LD)		250	8	3.0	2
	Pyruvate, NADH / NAD; photometry	250	8	3.0	2
IFCC methods (LDH)		127	6	4.4	53
	Lactate, NAD / NADH; photometry	127	6	4.4	53
Vitros 250-950 and 5,1, calculated to IFCC		-	-	-	1
	Dyed starch / dyed saccharides; reflectance	-	-	-	1

Serum A | Li, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	-	-	-	-	-	1.07	1.07	-	1
Photometry (Lithium)	1.05	1.06	0.03	3.2	<0.01	1.01	1.10	-	13
All	1.06	1.07	0.03	3.1	<0.01	1.01	1.10	-	14



■ All method groups ■ ISE direct

■ All method groups ■ Photometry (Lithium) (x_{pt} : 1.05 | Target area: 0.99-1.12 | Target: $\pm 6\%$)

Serum A | Li, mmol/l, Additional summary

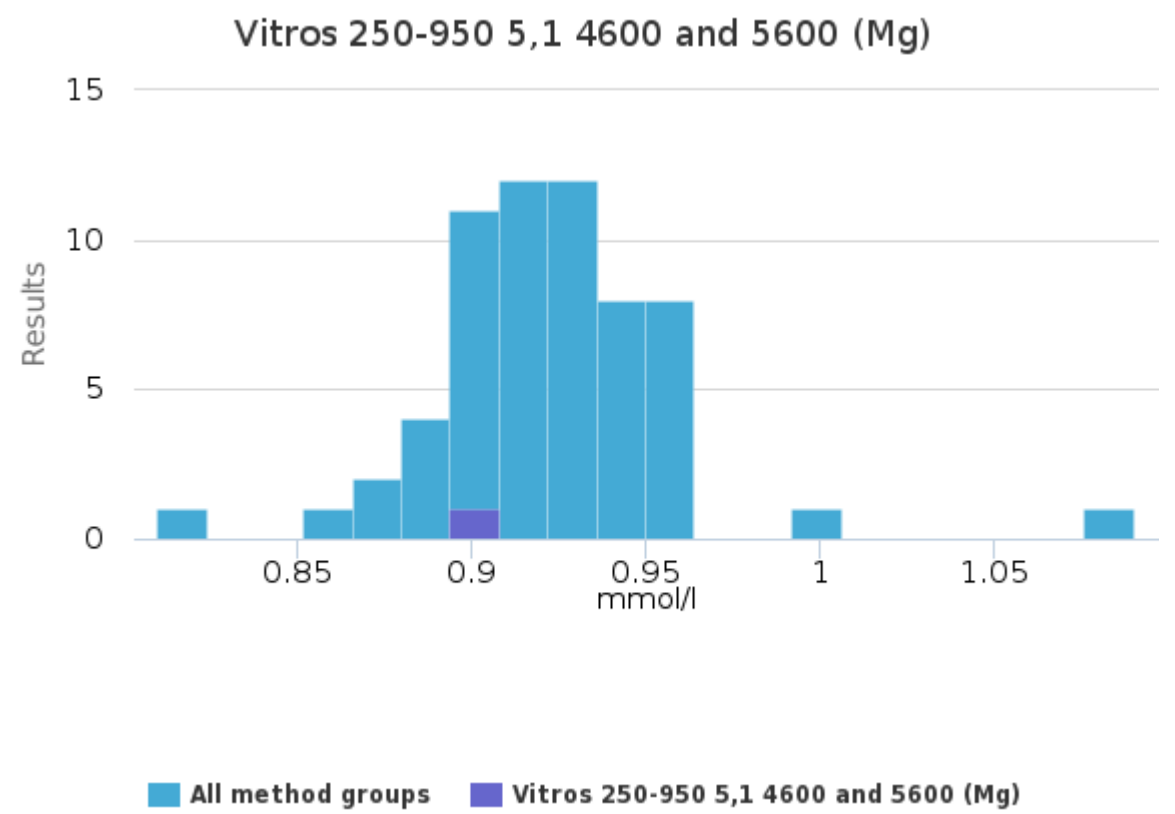
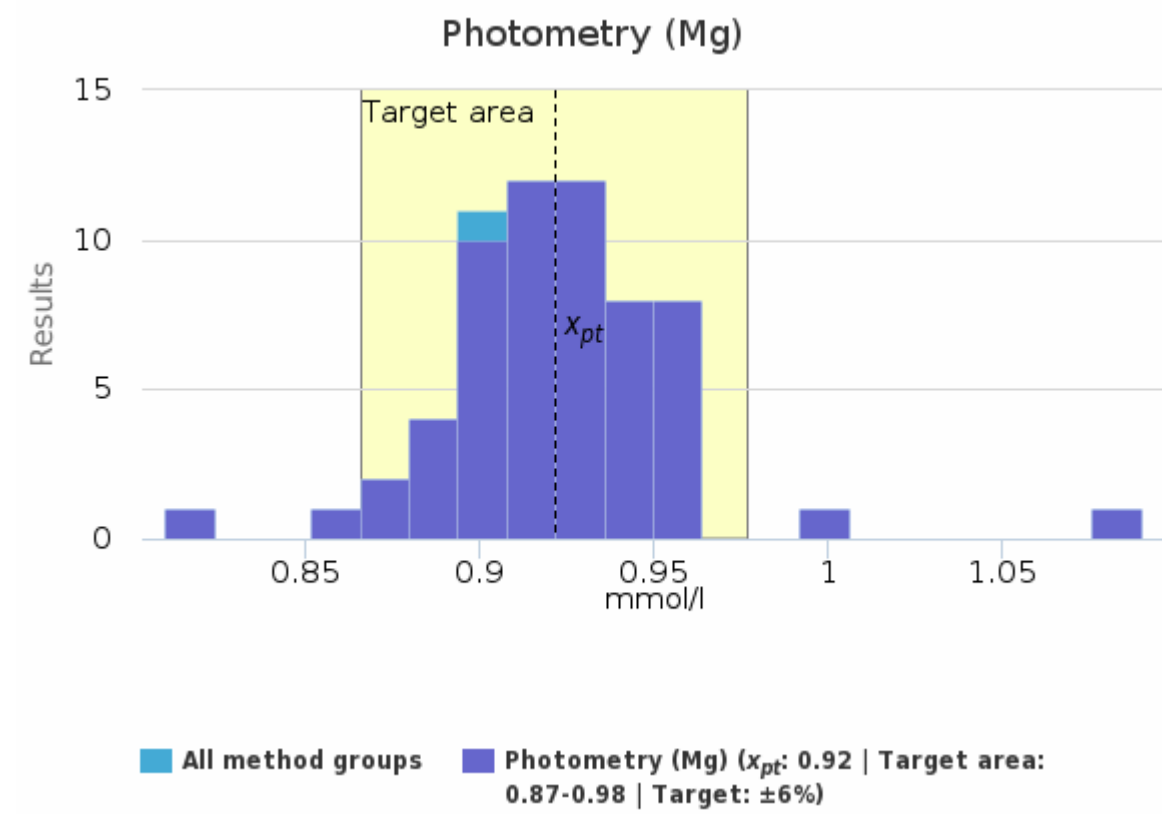
Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	Roche blood gas and electrolyte analysers	-	-	-	1
Photometry (Lithium)		1.05	0.03	3.2	13
	Abbott Alinity	1.01	<0.01	<0.1	2
	AU instruments	-	-	-	1
	Roche cobas	1.06	0.03	3.0	10

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	AVL 9180	-	-	-	1
Photometry (Lithium)		1.05	0.03	3.2	13
	Alinity c	1.01	<0.01	<0.1	2
	AU 480	-	-	-	1
	cobas c501	1.05	0.03	3.0	6
	cobas c502	-	-	-	1
	cobas c702	1.07	0.03	3.0	3

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		-	-	-	1
	Direct potentiometry	-	-	-	1
Photometry (Lithium)		1.05	0.03	3.2	13
	Chromogen	1.04	0.03	2.7	6
	Enzymatic method; absorption photometry	1.07	0.03	2.9	7

Serum A | Mg, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Mg)	0.92	0.92	0.03	2.8	<0.01	0.86	1.00	2	60
Vitros 250-950 5,1 4600 and 5600 (Mg)	-	-	-	-	-	0.90	0.90	-	1
All	0.92	0.92	0.03	2.8	<0.01	0.86	1.00	2	61



Serum A | Mg, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Mg)		0.92	0.03	2.8	60
	Abbott Aeroset, Architect	0.85	0.04	4.4	3
	Abbott Alinity	0.90	0.02	1.7	3
	AU instruments	0.92	0.03	3.3	8
	Biotechnica	-	-	-	1
	Cormay	1.02	0.11	10.4	2
	Mindray	-	-	-	1
	Roche cobas	0.93	0.02	2.4	31
	Roche Cobas Integra	0.90	0.05	5.5	2
	Siemens Advia	0.93	0.03	3.0	4
	Siemens Dimension	0.93	0.02	1.9	3
	Thermo Scientific	0.95	<0.01	0.7	2
	Vitros 250-950 5,1 4600 and 5600 (Mg)		-	-	-
Ortho Vitros 250-950 and 5,1		-	-	-	1

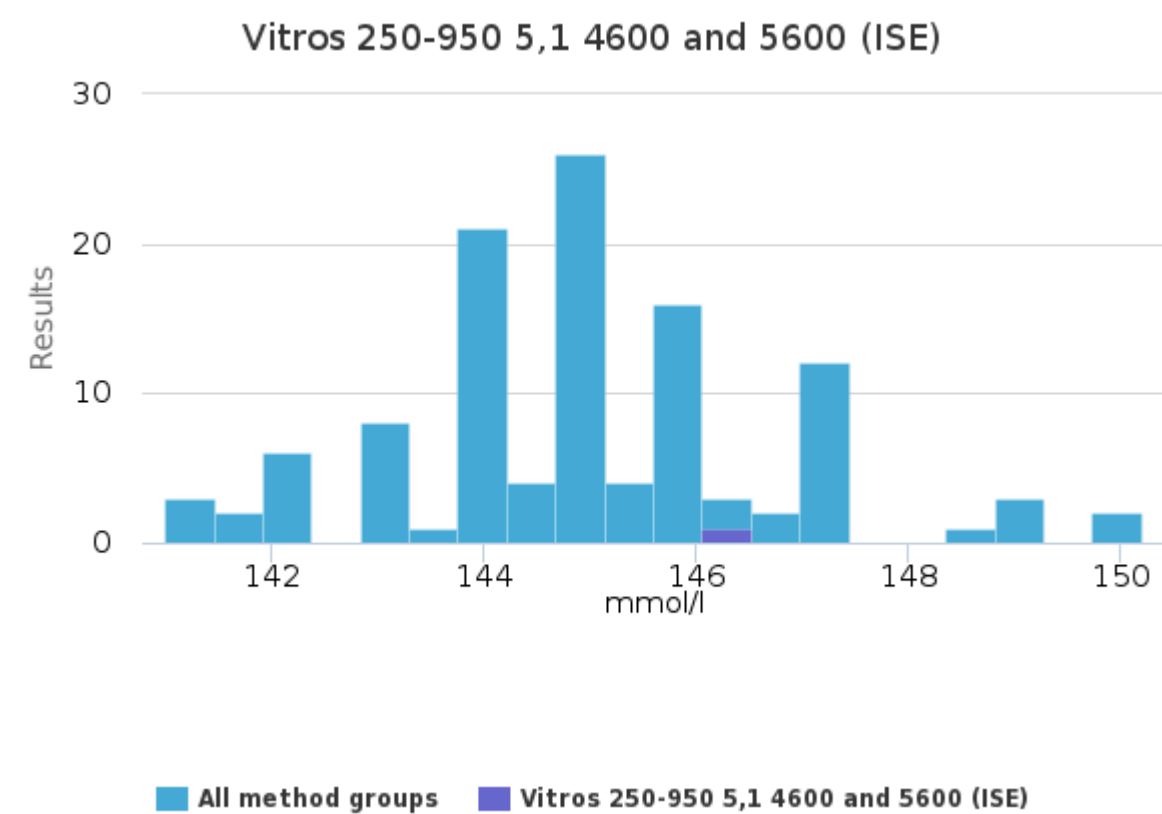
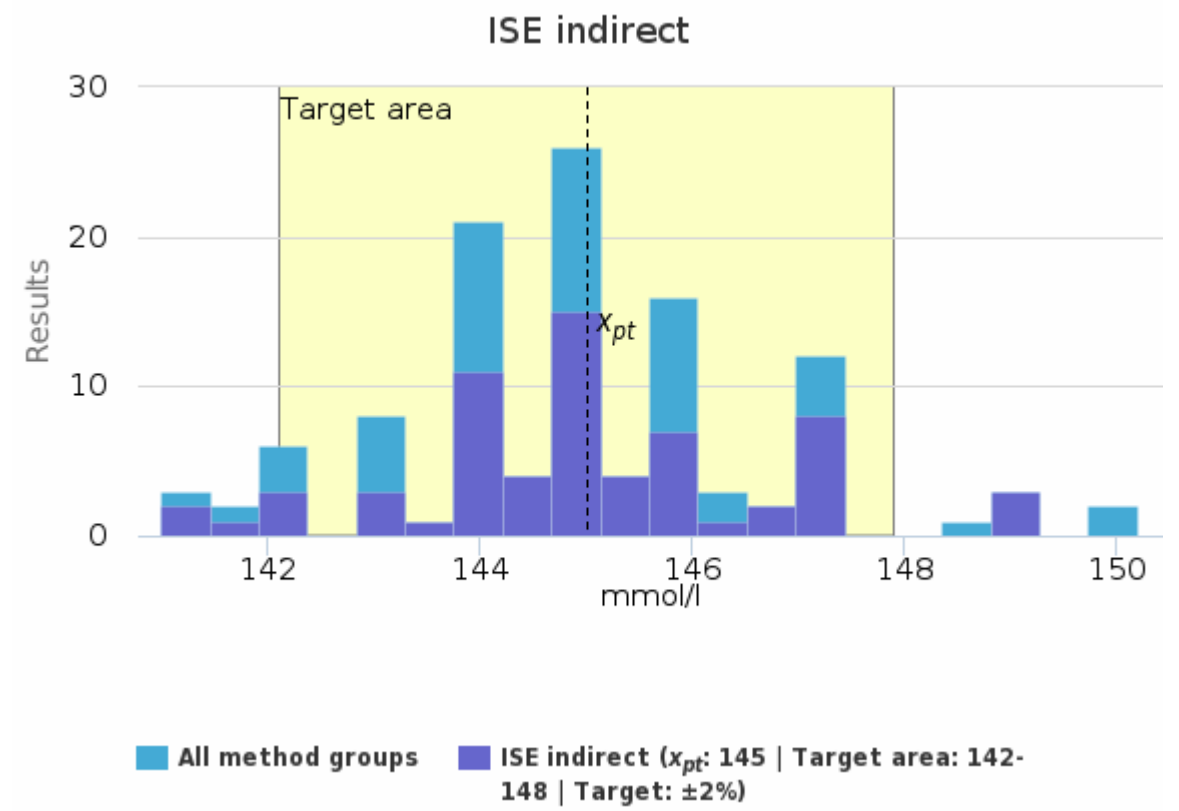
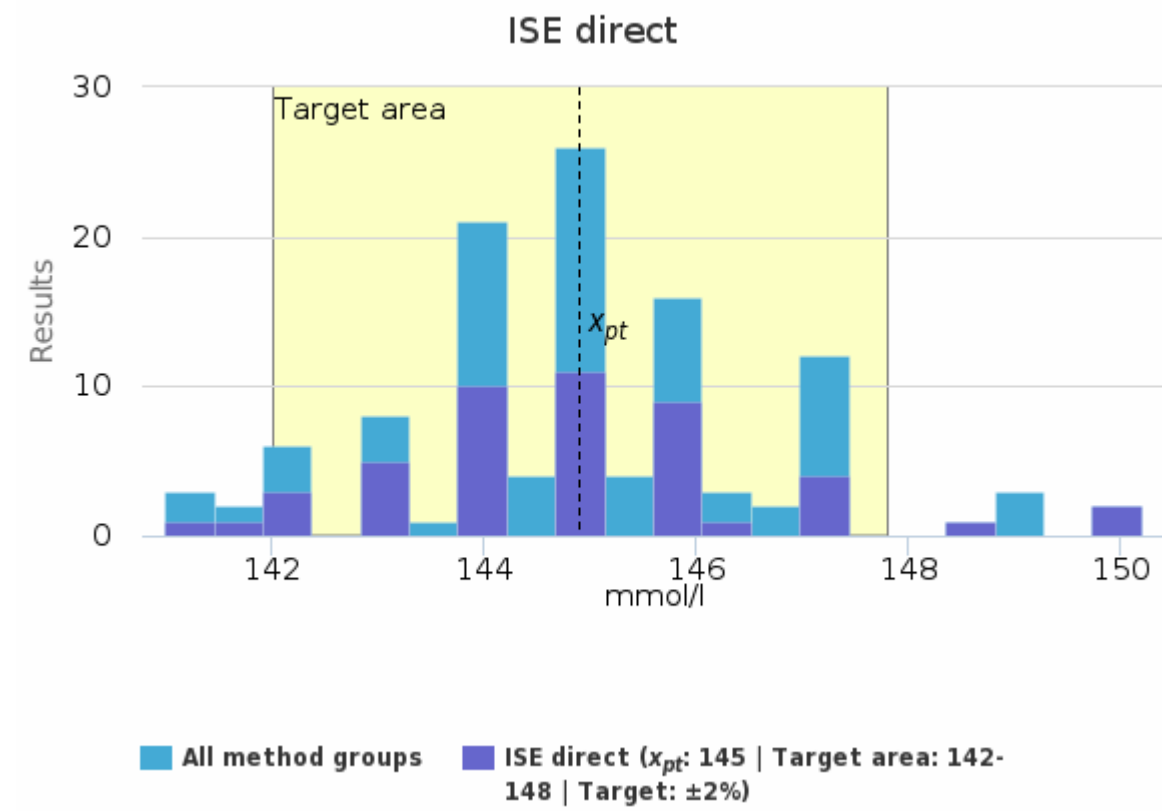
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Mg)		0.92	0.03	2.8	60
	Advia Chemistry XPT	0.92	0.03	3.3	3
	Advia 1800	-	-	-	1
	Alinity c	0.90	0.02	1.7	3
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	0.93	0.02	2.6	4
	AU 680	0.91	0.03	3.8	4
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	0.92	0.02	2.5	21
	cobas c503	0.93	0.01	1.1	3
	cobas c702	0.94	0.02	2.4	5
	Dimension EXL	0.92	0.01	1.5	2
	Dimension EXL 200	-	-	-	1
	Indiko Plus	0.95	<0.01	0.7	2
	Integra 400 Plus	0.90	0.05	5.5	2
	Konelab 60i	-	-	-	1

	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Mg)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Mg)		0.92	0.03	2.8	60
	Arsenazo III; photometry	0.91	0.03	2.8	3
	Chlorophosphonazo III (CPZ III); photometry	0.90	0.05	5.8	2
	Enzymatic method; absorption photometry	0.89	0.04	4.9	6
	Methylthymol blue (MTB); photometry	-	-	-	1
	Xylidyl blue; photometry	0.93	0.03	3.6	48
Vitros 250-950 5,1 4600 and 5600 (Mg)		-	-	-	1
	Formazan; reflectance	-	-	-	1

Serum A | Na, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
ISE direct	145	145	2	1.3	<1	141	150	-	48
ISE indirect	145	145	2	1.2	<1	141	149	-	65
Vitros 250-950 5,1 4600 and 5600 (ISE)	-	-	-	-	-	146	146	-	1
All	145	145	2	1.2	<1	141	150	-	114



Serum A | Na, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
ISE direct		145	2	1.3	48
	Easylite	145	5	3.6	2
	Easystat	148	3	1.9	2
	IL blood gas and electrolyte analysers	-	-	-	1
	KVERTIMED	-	-	-	1
	Nova Biomedical electrolyte analysers	-	-	-	1
	Radiometer blood gas analyzer	-	-	-	1
	Roche blood gas and electrolyte analysers	-	-	-	1
	SENSACORE	-	-	-	1
	Thermo Scientific	145	2	1.1	36
	Thermo Scientific electrolyte analysers	146	<1	0.5	2
ISE indirect		145	2	1.2	65
	Abbott Aeroset, Architect	143	1	0.7	5
	Abbott Alinity	144	2	1.1	4
	AU instruments	144	1	1.0	5
	Roche cobas	145	2	1.2	40
	Roche Cobas Integra	147	2	1.3	3
	Siemens Advia	146	<1	0.6	5

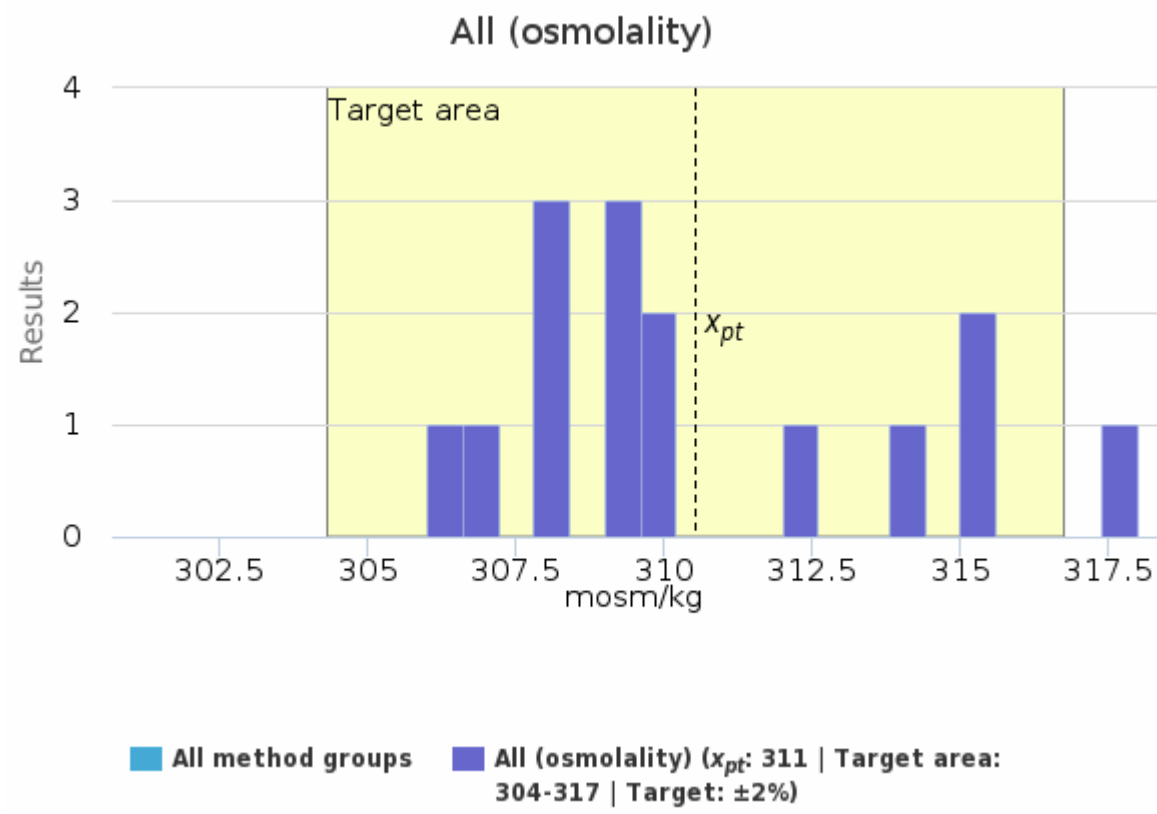
	Siemens Dimension	145	<1	0.5	3
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
ISE direct		145	2	1.3	48
	ABL 800	-	-	-	1
	AVL 9180	-	-	-	1
	EasyLyte	145	5	3.6	2
	EasyStat	148	3	1.9	2
	ELECTROLYTE ANALYZER EL-5	-	-	-	1
	GEM Premier 4000	-	-	-	1
	Indiko	143	2	1.4	2
	Indiko Plus	144	1	0.8	11
	Konelab Prime 30	147	5	3.4	2
	Konelab PRIME 60i	145	1	0.8	10
	Konelab 20	-	-	-	1
	Konelab 20i	145	<1	0.6	7
	Konelab 20XTi	-	-	-	1
	Konelab 30i	146	1	0.7	3
	Konelab 60i	-	-	-	1
	SENSA CORE ST-200 Aqua Electrolyte Analyzer	-	-	-	1
	Stat Profile Prime Electrolyte Analyzer	-	-	-	1
ISE indirect		145	2	1.2	65
	Advia Chemistry XPT	146	<1	0.7	4
	Advia 1800	-	-	-	1
	Alinity c	144	2	1.1	4
	Architect c8000	-	-	-	1
	Architect ci4100	142	<1	<0.1	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	143	2	1.2	2
	AU 680	144	1	0.8	3
	cobas c303	-	-	-	1
	cobas c311	146	<1	0.4	4
	cobas c501	145	2	1.3	25
	cobas c503	145	1	1.0	5
	cobas c702	145	1	1.0	5
	Dimension EXL	145	<1	0.2	2
	Dimension EXL 200	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	147	3	1.9	2
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
ISE direct		145	2	1.3	48
	Direct potentiometry	145	2	1.3	48
ISE indirect		145	2	1.2	65
	Indirect potentiometry	145	2	1.2	65
Vitros 250-950 5,1 4600 and 5600 (ISE)		-	-	-	1
	Direct potentiometry	-	-	-	1

Serum A | Osmol, mosm/kg

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
All (osmolality)	311	309	3	1.1	<1	306	318	-	15
All	311	309	3	1.1	<1	306	318	-	15



Serum A | Osmol, mosm/kg, Additional summary

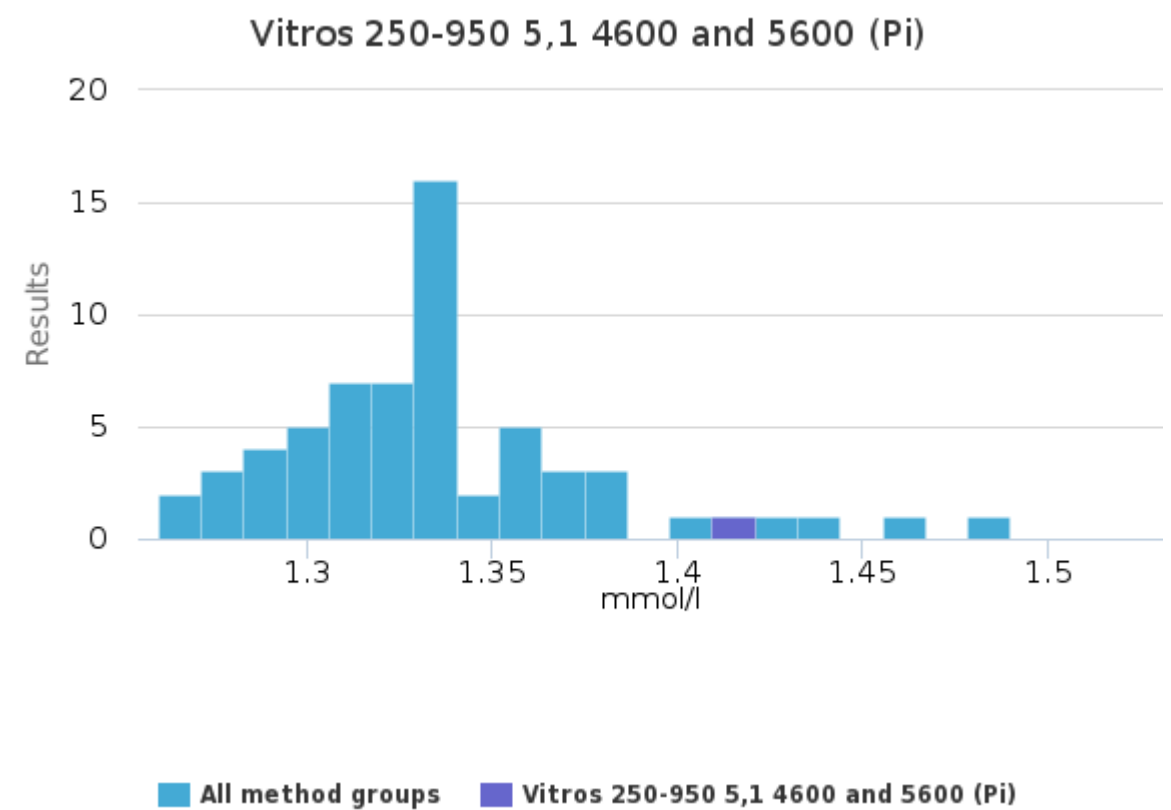
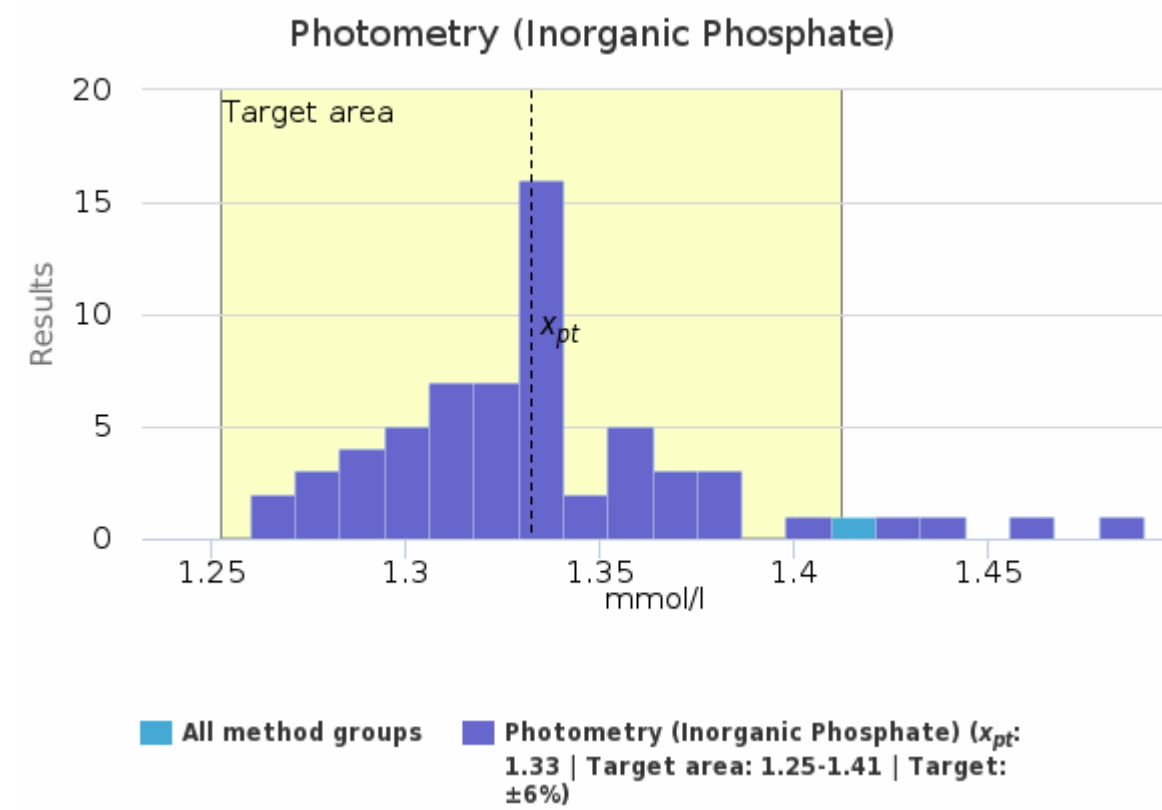
Methodics	Method	x_{pt}	sd	CV%	n
All (osmolality)		311	3	1.1	15
	Freezing point method	311	3	1.1	15

Methodics	Instrument	x_{pt}	sd	CV%	n
All (osmolality)		311	3	1.1	15
	A2O Osmometer	-	-	-	1
	Micro Osmometer (3MO, 30 plus, 3300)	310	3	1.0	5
	Osmo	308	2	0.7	2
	Osmomat auto	-	-	-	1
	Osmometer Marcel OS 3000	-	-	-	1
	Osmometer 3320	-	-	-	1
	OsmoPRO	312	5	1.6	2
	Osmo1	316	3	0.9	2

Methodics	Chemical principle	x_{pt}	sd	CV%	n
All (osmolality)		311	3	1.1	15
	Freezing point depression osmometry	311	3	1.1	15

Serum A | Pi, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Inorganic Phosphate)	1.33	1.33	0.04	2.9	<0.01	1.26	1.46	1	62
Vitros 250-950 5,1 4600 and 5600 (Pi)	-	-	-	-	-	1.42	1.42	-	1
All	1.33	1.33	0.04	3.0	<0.01	1.26	1.46	1	63



Serum A | Pi, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Inorganic Phosphate)		1.33	0.04	2.9	62
	Abbott Aeroset, Architect	1.33	0.01	0.8	5
	Abbott Alinity	1.29	0.02	1.5	4
	AU instruments	1.34	0.05	3.4	8
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Erba	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	1.32	0.03	2.2	30
	Roche Cobas Integra	1.37	0.01	0.7	3
	Siemens Advia	1.39	0.04	3.1	5
	Siemens Dimension	1.37	0.09	6.6	2
	Thermo Scientific	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Pi)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

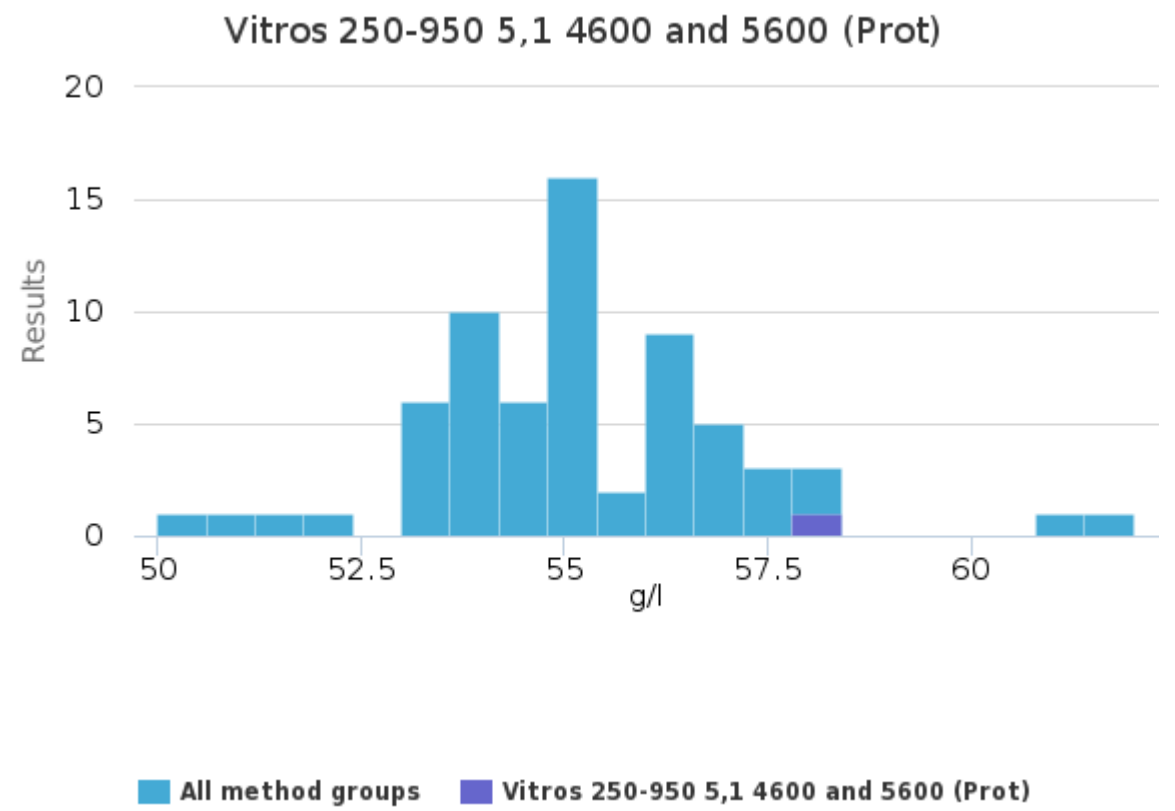
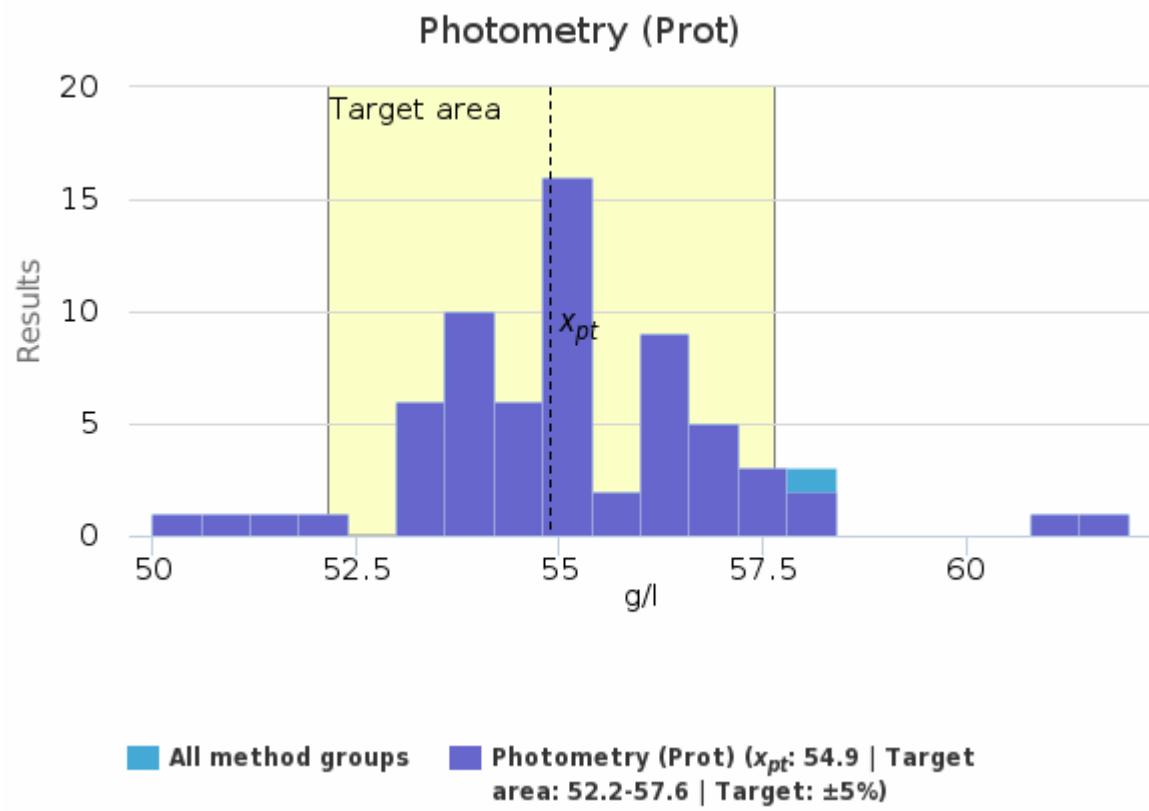
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Inorganic Phosphate)		1.33	0.04	2.9	62
	Advia Chemistry XPT	1.39	0.05	3.4	4
	Advia 1800	-	-	-	1
	Alinity c	1.29	0.02	1.5	4
	Architect c8000	-	-	-	1
	Architect ci4100	1.34	<0.01	0.5	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	1.35	0.06	4.5	4
	AU 680	1.33	0.03	2.4	4
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	1.32	0.02	1.6	2
	cobas c501	1.33	0.03	2.4	21
	cobas c503	1.33	0.01	0.8	2
	cobas c702	1.32	0.03	1.9	5
	Dimension EXL	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1

	Indiko Plus	-	-	-	1
	Integra 400 Plus	1.37	0.01	0.7	3
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Pi)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Inorganic Phosphate)		1.33	0.04	2.9	62
	Ammonium molybdate, phosphomolybdate complex, without reducing agent or deproteinization; photometry	1.34	0.04	3.3	54
	Ammonium molybdate, reducing agent / molybdenum blue, deproteinization: photometry	1.31	0.02	1.5	3
	Ammonium molybdate, reducing agent / molybdenum blue, without deproteinization: photometry	1.34	0.04	3.3	5
Vitros 250-950 5,1 4600 and 5600 (Pi)		-	-	-	1
	Ammonium molybdate, reducing agent; reflectance	-	-	-	1

Serum A | Prot, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry (Prot)	54.9	55.0	1.6	2.9	0.2	50.0	58.0	2	65
Vitros 250-950 5,1 4600 and 5600 (Prot)	-	-	-	-	-	57.9	57.9	-	1
All	54.9	55.0	1.6	3.0	0.2	50.0	58.0	2	66



Serum A | Prot, g/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry (Prot)		54.9	1.6	2.9	65
	Abbott Aeroset, Architect	55.3	1.2	2.1	3
	Abbott Alinity	56.2	0.7	1.2	3
	AU instruments	55.5	1.2	2.1	9
	BioSystems	60.3	2.1	3.5	3
	Biotechnica	-	-	-	1
	Cormay	56.8	1.6	2.8	3
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	54.4	1.4	2.6	30
	Roche Cobas Integra	53.4	3.2	6.0	4
	Siemens Advia	54.9	0.2	0.3	2
	Siemens Dimension	54.5	0.7	1.3	2
	Thermo Scientific	-	-	-	1
	Thermo Scientific T PROT Plus	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Prot)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

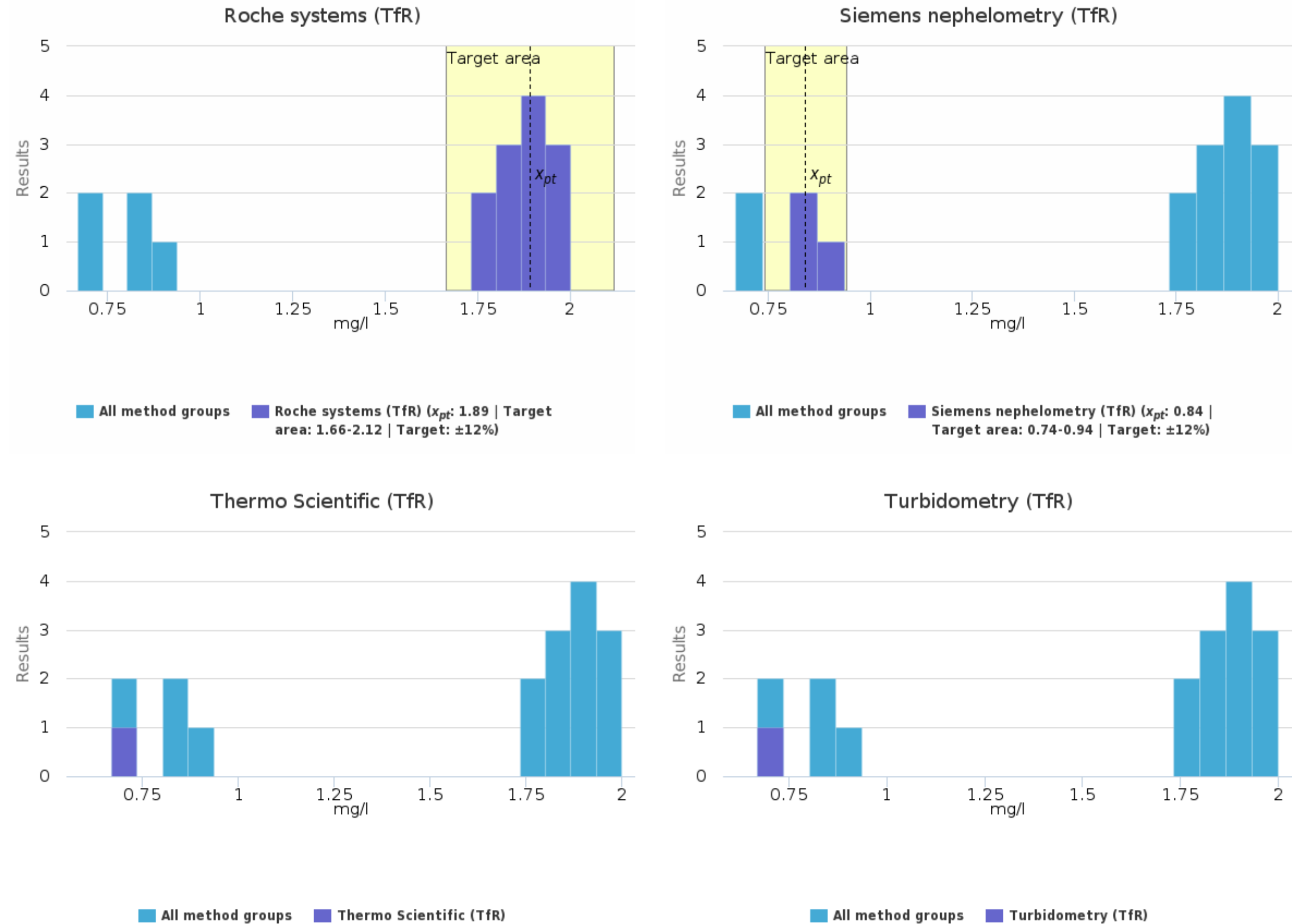
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry (Prot)		54.9	1.6	2.9	65
	Advia Chemistry XPT	-	-	-	1
	Advia 1800	-	-	-	1
	Alinity c	56.2	0.7	1.2	3
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	55.2	1.4	2.5	5
	AU 680	55.8	0.8	1.4	4
	A25 Automatic Analyzer	60.3	2.1	3.5	3
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	54.6	1.5	2.8	21
	cobas c503	54.7	0.5	0.9	3
	cobas c702	54.0	1.2	2.3	5

	Dimension EXL	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	54.6	0.6	1.0	2
	Integra 400	-	-	-	1
	Integra 400 Plus	54.5	2.8	5.1	3
	Konelab 60i	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Prot)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry (Prot)		54.9	1.6	2.9	65
	Biuret method; photometry	55.1	1.9	3.5	65
Vitros 250-950 5,1 4600 and 5600 (Prot)		-	-	-	1
	Biuret method; reflectance	-	-	-	1

Serum A | TfR, mg/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Roche systems (TfR)	1.89	1.90	0.07	3.9	0.02	1.77	2.00	-	12
Siemens nephelometry (TfR)	0.84	0.85	0.03	3.9	0.02	0.81	0.87	-	3
Thermo Scientific (TfR)	-	-	-	-	-	0.67	0.67	-	1
Turbidometry (TfR)	-	-	-	-	-	0.70	0.70	-	1
All	1.56	1.84	0.53	33.8	0.13	0.67	2.00	-	17



Serum A | TfR, mg/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Roche systems (TfR)		1.89	0.07	3.9	12
	Roche cobas	1.88	0.05	2.6	2
	Roche Cobas Integra	2.00	<0.01	<0.1	2
	Roche cobas Tina-quant	1.87	0.06	3.5	8
Siemens nephelometry (TfR)		0.84	0.03	3.9	3
	Siemens N Latex sTfR	0.84	0.03	3.9	3
Thermo Scientific (TfR)		-	-	-	1
	Thermo Scientific sTfR	-	-	-	1
Turbidometry (TfR)		-	-	-	1
	Optilite	-	-	-	1

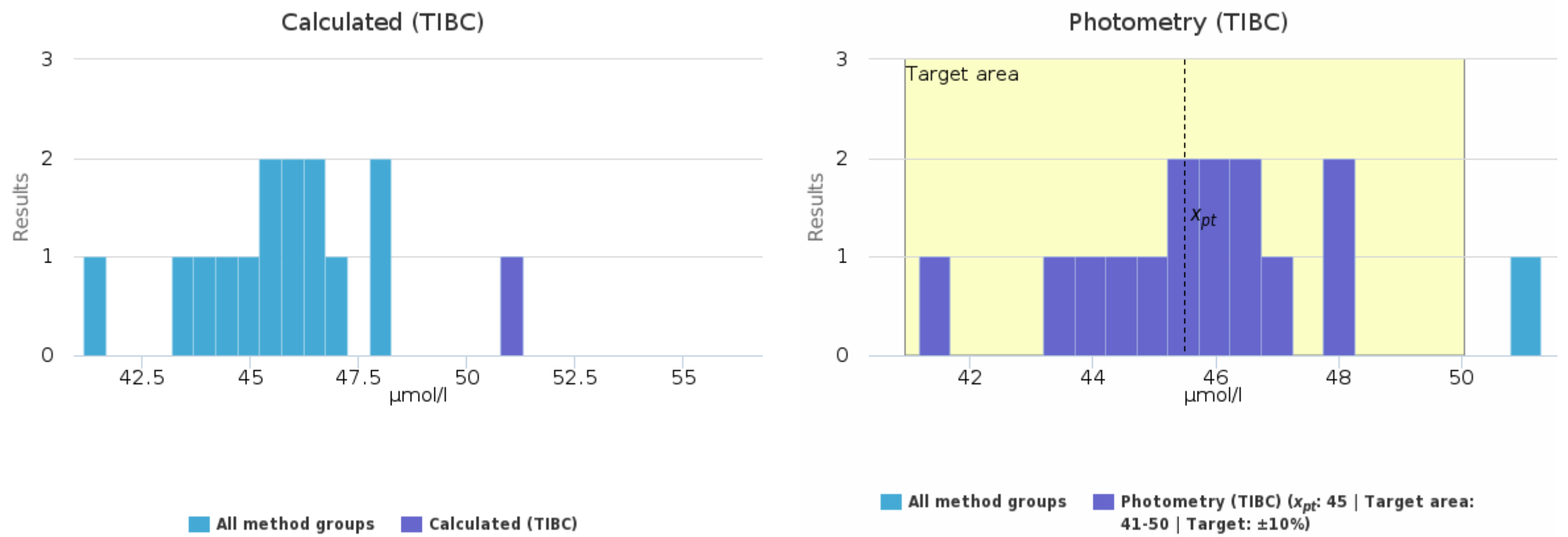
Methodics	Instrument	x_{pt}	sd	CV%	n
Roche systems (TfR)		1.89	0.07	3.9	12
	cobas c501	1.84	0.05	2.7	5
	cobas c502	-	-	-	1
	cobas c503	1.85	0.07	3.8	2
	cobas c702	1.94	0.04	2.2	2

	Integra 400 Plus	2.00	<0.01	<0.1	2
Siemens nephelometry (TfR)		0.84	0.03	3.9	3
	Atellica NEPH 630 System	-	-	-	1
	BN ProSpec	0.86	0.02	1.8	2
Thermo Scientific (TfR)		-	-	-	1
	Indiko Plus	-	-	-	1
Turbidometry (TfR)		-	-	-	1
	Optilite	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Roche systems (TfR)		1.89	0.07	3.9	12
	Antigen-antibody (Ag-Ab) complex; turbidimetry	2.00	<0.01	<0.1	2
	Antigen-antibody (Ag-Ab) latex complex; turbidimetry	1.87	0.06	3.2	10
Siemens nephelometry (TfR)		0.84	0.03	3.9	3
	Antigen-antibody (Ag-Ab) complex; nephelometry	0.84	0.03	3.9	3
Thermo Scientific (TfR)		-	-	-	1
	Antigen-antibody (Ag-Ab) complex; turbidimetry	-	-	-	1
Turbidometry (TfR)		-	-	-	1
	Antigen-antibody (Ag-Ab) latex complex; turbidimetry	-	-	-	1

Serum A | TIBC, µmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Calculated (TIBC)	-	-	-	-	-	51	51	-	1
Photometry (TIBC)	45	46	2	4.1	<1	41	48	-	14
All	46	46	2	5.1	<1	41	51	-	15



Serum A | TIBC, µmol/l, Additional summary

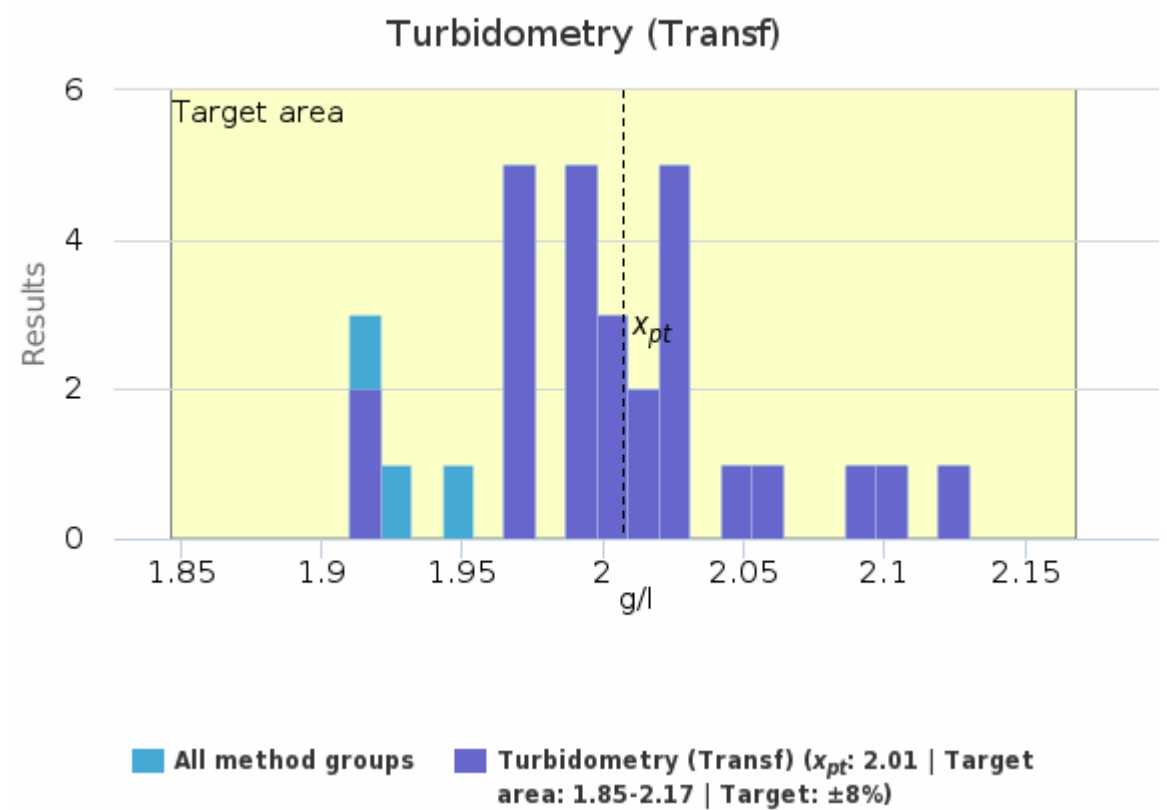
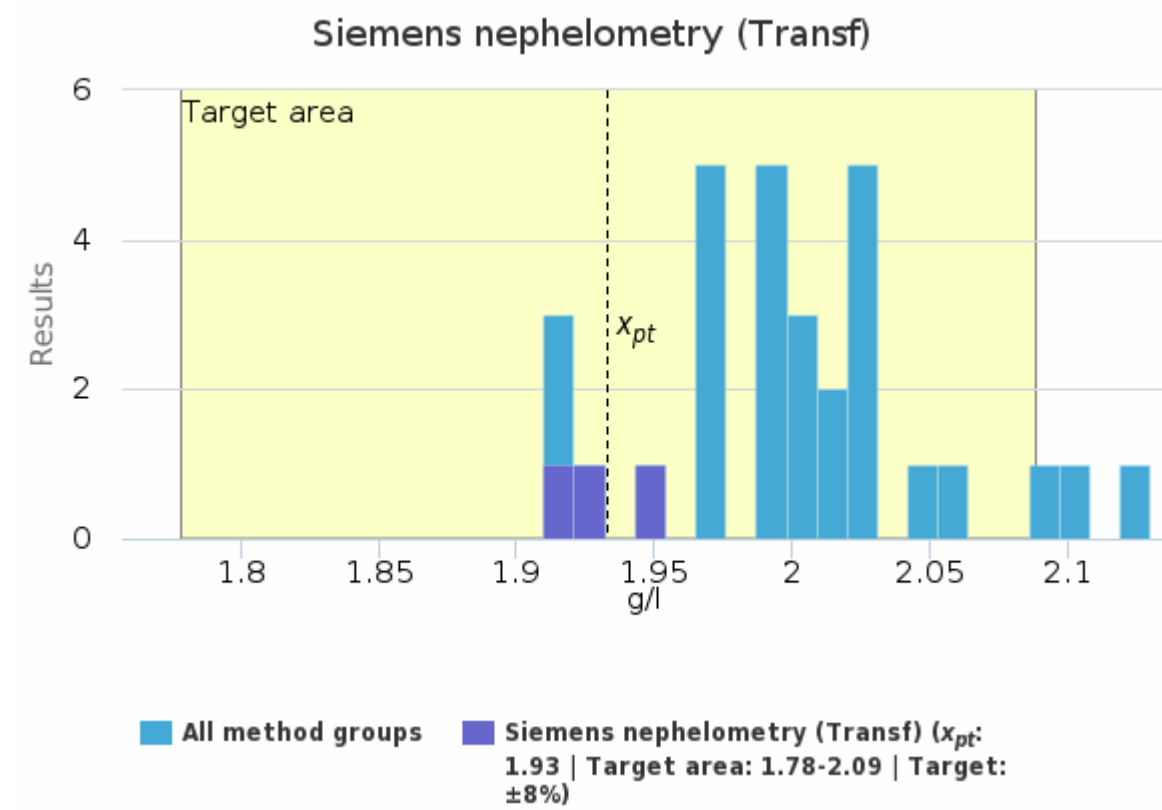
Methodics	Method	x_{pt}	sd	CV%	n
Calculated (TIBC)		-	-	-	1
	Calculated from transferrin	-	-	-	1
Photometry (TIBC)		45	2	4.1	14
	Abbott Aeroset, Architect	45	<1	1.5	2
	AU instruments	47	1	3.0	4
	Roche cobas	46	1	2.4	6
	Roche Cobas Integra	-	-	-	1
	Siemens Dimension	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Calculated (TIBC)		-	-	-	1
	Architect c8000	-	-	-	1
Photometry (TIBC)		45	2	4.1	14
	Architect ci8200	45	<1	1.5	2
	AU 480	47	2	4.6	2
	AU 680	47	<1	1.9	2
	cobas c303	-	-	-	1
	cobas c501	46	<1	1.2	3
	cobas c503	45	1	3.1	2
	Dimension RxL	-	-	-	1
	Integra 400 Plus	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Calculated (TIBC)		-	-	-	1
	Calculated from transferrin	-	-	-	1
Photometry (TIBC)		45	2	4.1	14
	Direct measurement of UIBC (LIBC); photometry	46	2	4.3	13
	Ferrozine; photometry	-	-	-	1

Serum A | Transf, g/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Siemens nephelometry (Transf)	1.93	1.93	0.02	0.8	<0.01	1.92	1.95	-	3
Turbidometry (Transf)	2.01	2.00	0.05	2.4	<0.01	1.91	2.13	-	27
All	2.00	2.00	0.05	2.6	<0.01	1.91	2.13	-	30



Serum A | Transf, g/l, Additional summary

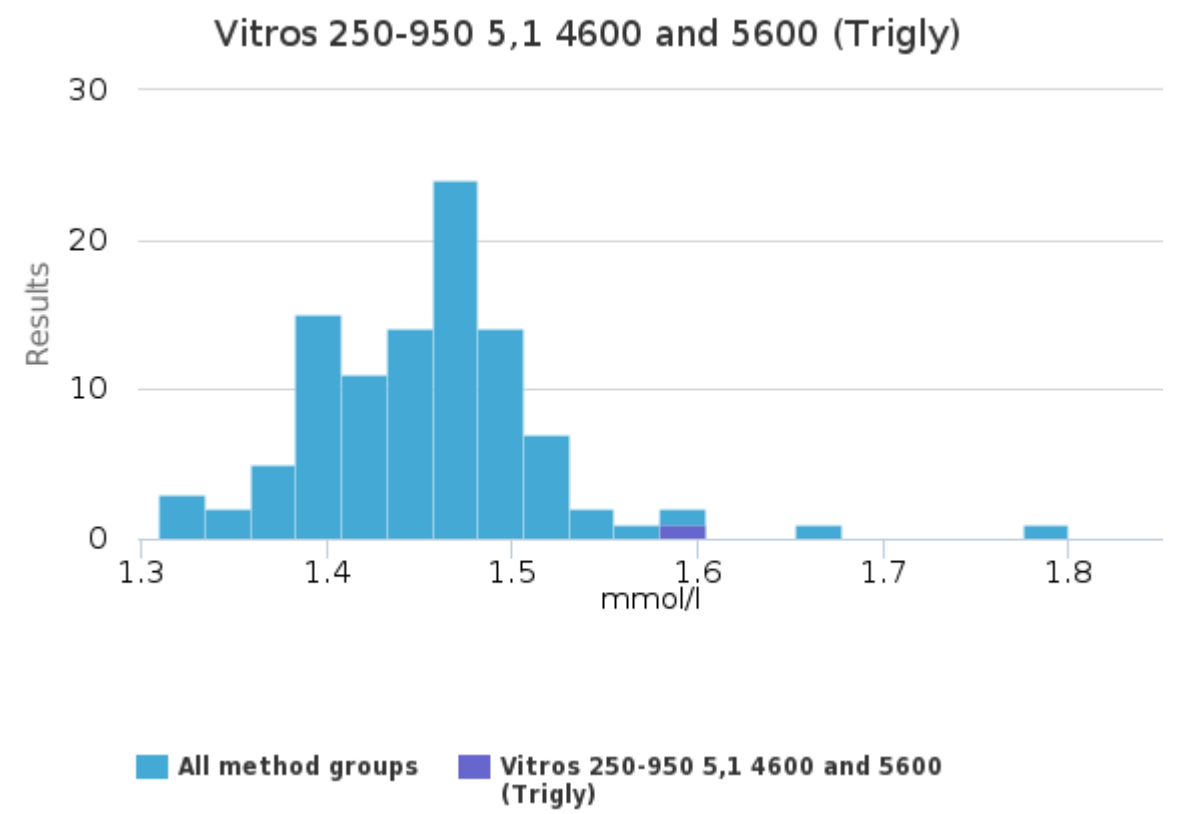
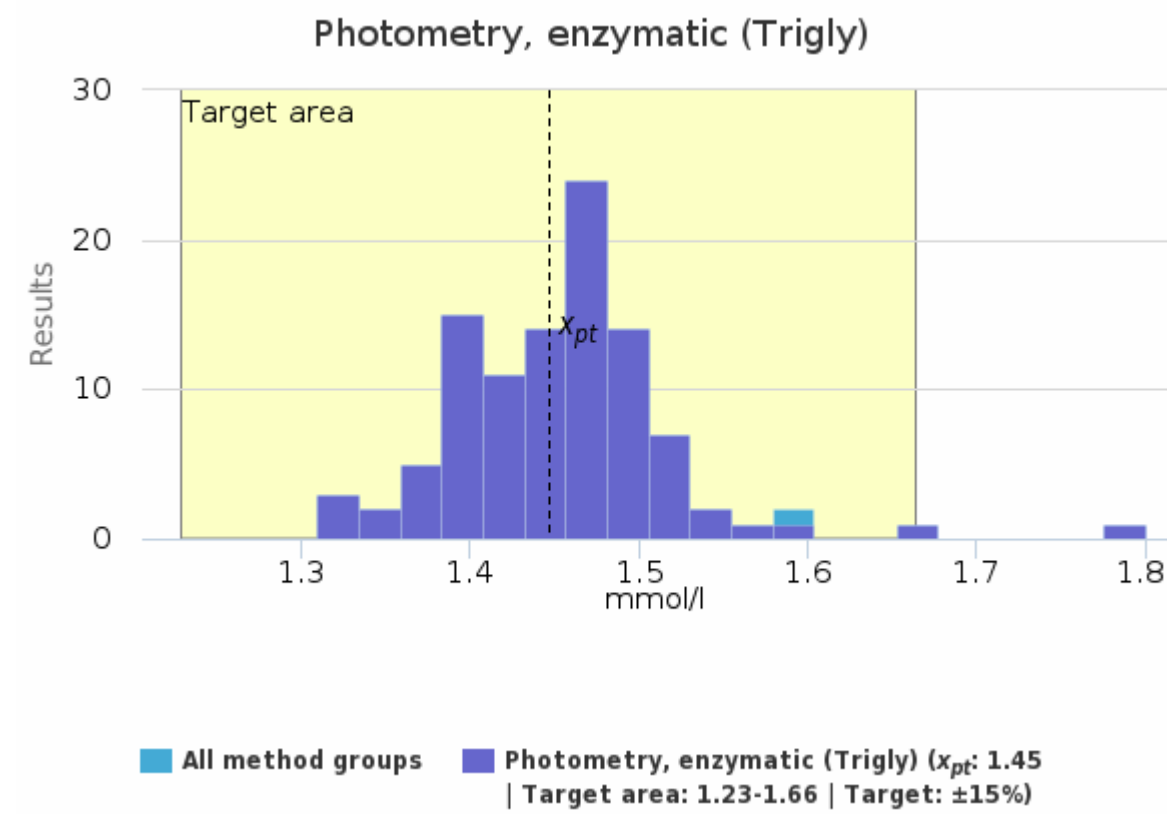
Methodics	Method	x_{pt}	sd	CV%	n
Siemens nephelometry (Transf)		1.93	0.02	0.8	3
	Siemens BN instruments	1.93	0.02	0.8	3
Turbidometry (Transf)		2.01	0.05	2.4	27
	Abbott Aeroset, Architect	1.99	0.09	4.6	2
	Abbott Alinity	1.94	0.04	2.2	2
	AU instruments	-	-	-	1
	Roche Cobas Integra	2.01	0.02	1.1	2
	Roche Cobas Integra Tina-quant	-	-	-	1
	Roche cobas Tina-quant	2.03	0.04	2.2	14
	Roche Tina-quant	2.03	0.08	4.2	2
	Siemens Atellica	-	-	-	1
	Thermo Scientific	1.98	0.01	0.7	2

Methodics	Instrument	x_{pt}	sd	CV%	n
Siemens nephelometry (Transf)		1.93	0.02	0.8	3
	BN ProSpec	1.93	0.02	0.8	3
Turbidometry (Transf)		2.01	0.05	2.4	27
	Alinity c	1.94	0.04	2.2	2
	Architect c8000	-	-	-	1
	Architect ci8200	-	-	-	1
	Atellica CH 930	-	-	-	1
	AU 480	-	-	-	1
	cobas c311	-	-	-	1
	cobas c501	2.01	0.05	2.3	8
	cobas c502	-	-	-	1
	cobas c503	2.03	0.05	2.6	3
	cobas c702	2.03	<0.01	0.3	3
	Indiko Plus	-	-	-	1
	Integra 400	-	-	-	1
	Integra 400 Plus	2.01	0.02	1.1	2
	Konelab 60i	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Siemens nephelometry (Transf)		1.93	0.02	0.8	3
	Antigen-antibody (Ag-Ab) complex; nephelometry	1.93	0.02	0.8	3
Turbidometry (Transf)		2.01	0.05	2.4	27
	Antigen-antibody (Ag-Ab) complex; turbidimetry	2.01	0.05	2.4	27

Serum A | Trigly, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Trigly)	1.45	1.45	0.05	3.7	<0.01	1.31	1.58	2	101
Vitros 250-950 5,1 4600 and 5600 (Trigly)	-	-	-	-	-	1.58	1.58	-	1
All	1.45	1.46	0.06	4.0	<0.01	1.31	1.66	1	102



Serum A | Trigly, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Trigly)		1.45	0.05	3.7	101
	Abbott Aeroset, Architect	1.38	0.03	2.3	5
	Abbott Alinity	1.38	0.03	2.5	4
	AU instruments	1.40	0.02	1.7	8
	BioSystems	1.64	0.17	10.1	3
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Diasys	-	-	-	1
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	1.46	0.04	2.5	34
	Roche Cobas Integra	1.43	0.03	2.0	3
	Siemens Advia	1.47	0.03	1.7	4
	Siemens Dimension	-	-	-	1
	Thermo Scientific	1.47	0.05	3.6	33
Vitros 250-950 5,1 4600 and 5600 (Trigly)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

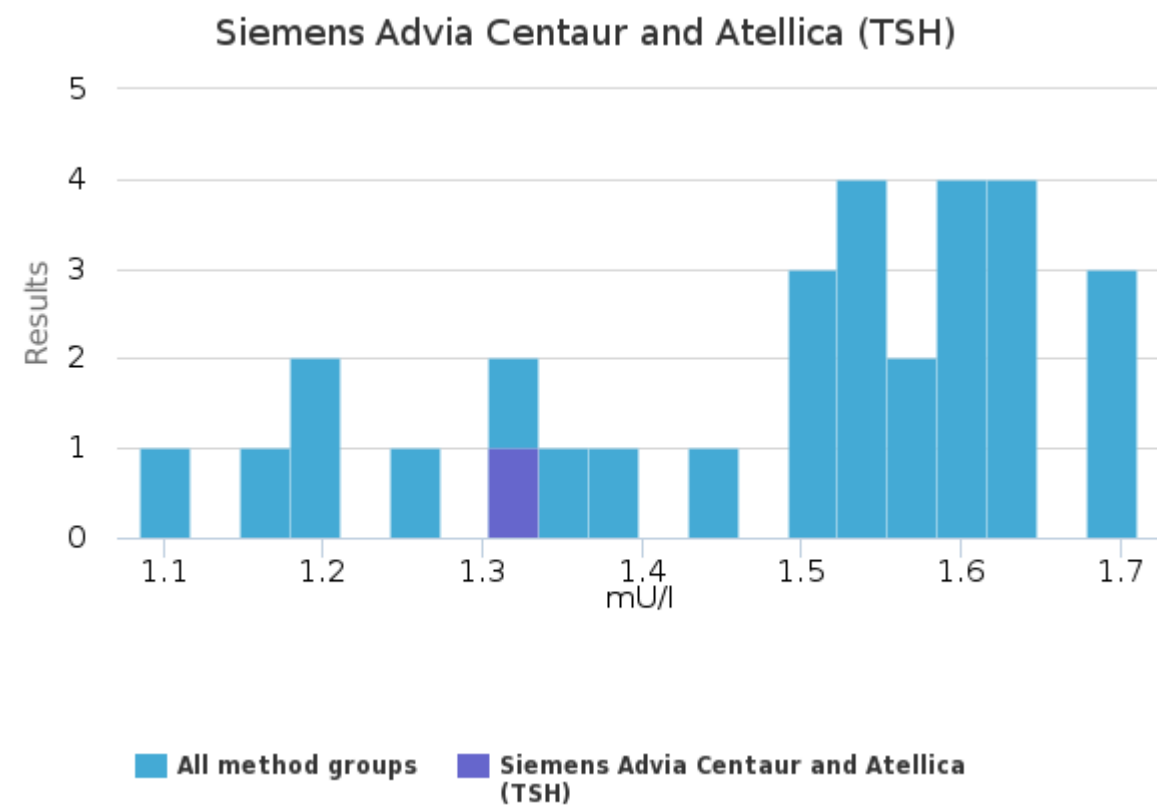
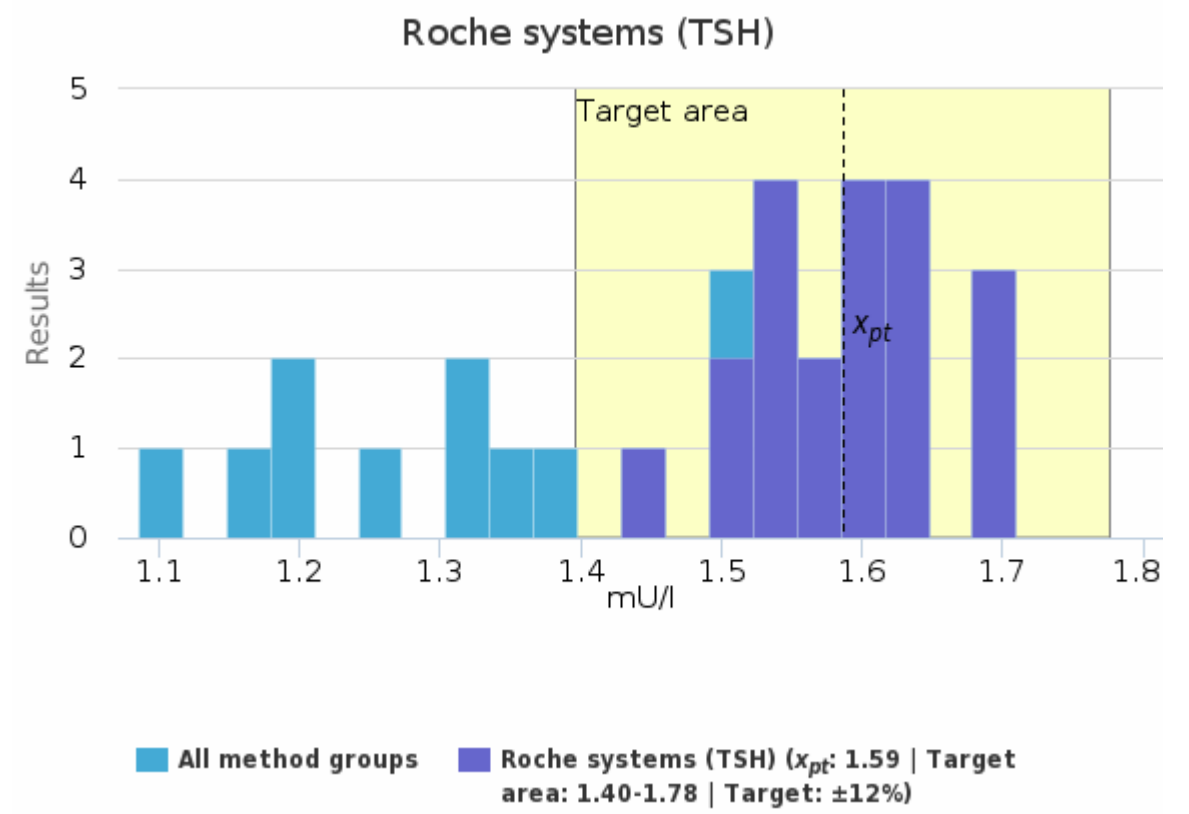
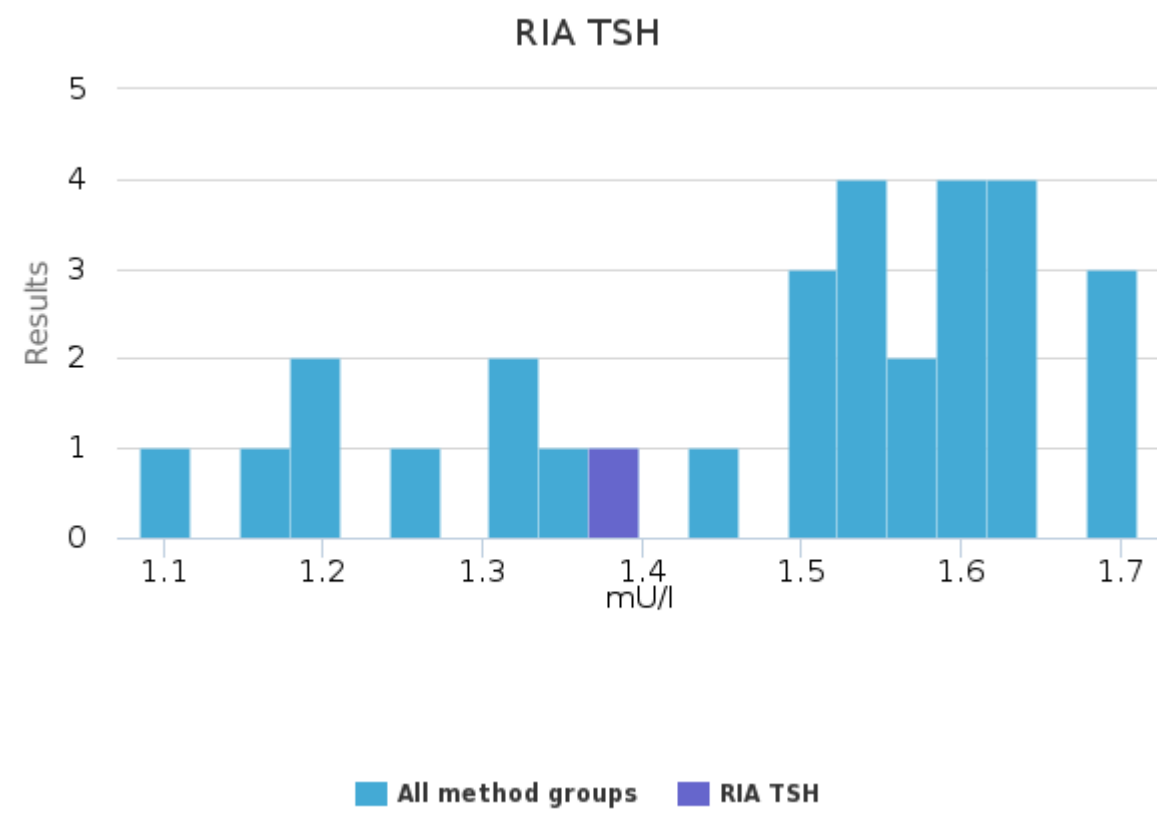
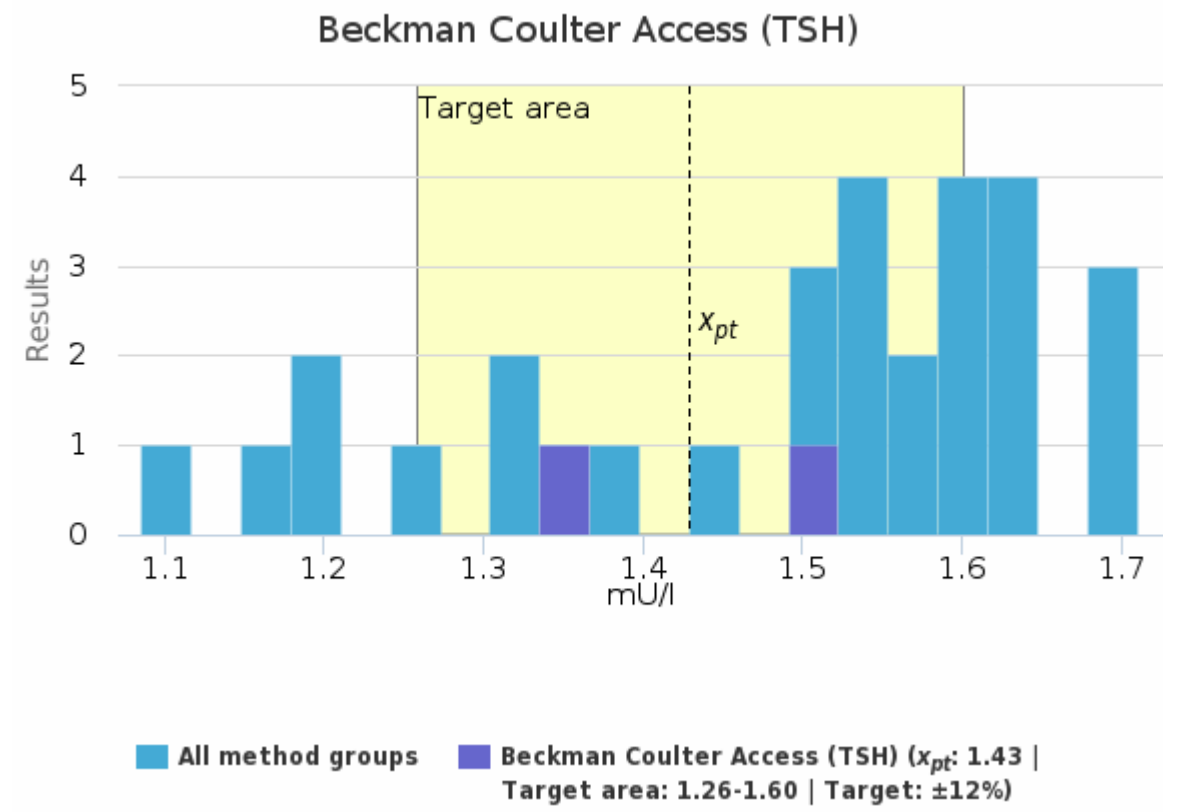
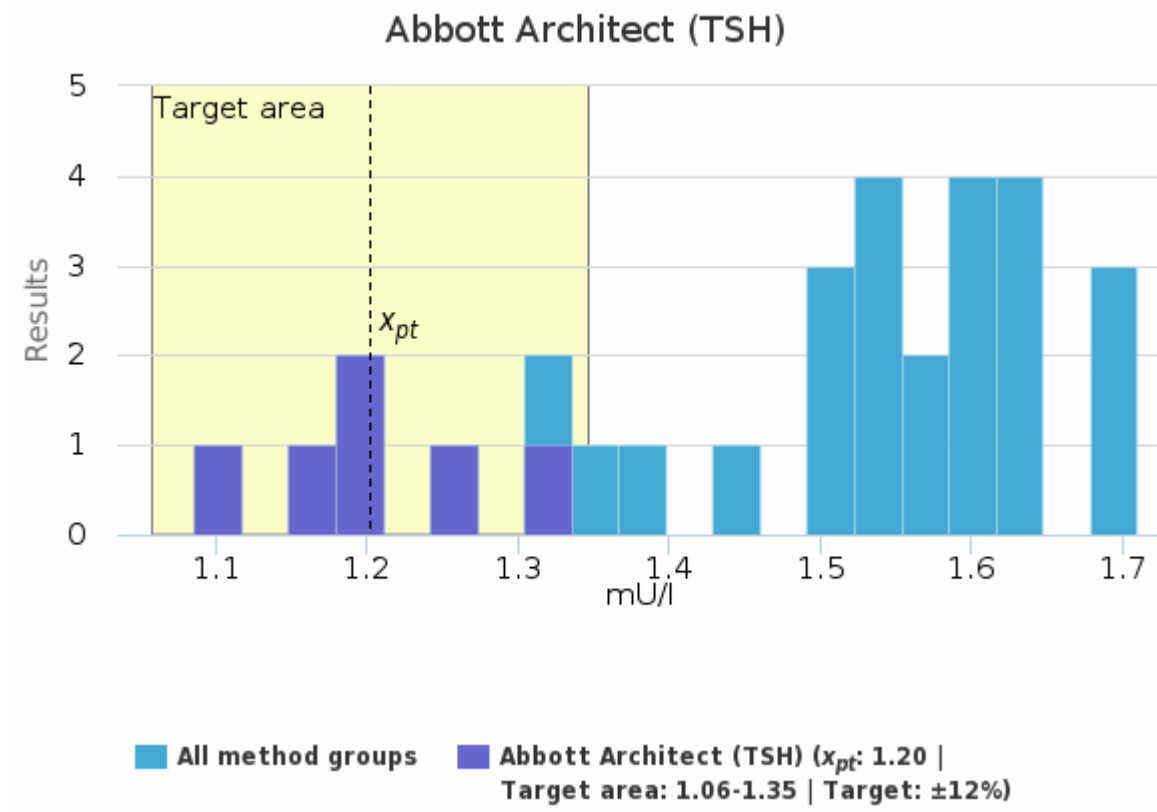
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Trigly)		1.45	0.05	3.7	101
	Advia Chemistry XPT	1.47	0.03	1.7	4
	Advia 1800	-	-	-	1
	Alinity c	1.38	0.03	2.5	4
	Architect c8000	-	-	-	1
	Architect ci4100	1.38	0.02	1.5	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	1.39	0.02	1.2	4
	AU 680	1.41	0.03	2.0	4
	A25 Automatic Analyzer	1.64	0.17	10.1	3
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	1.50	0.03	2.0	4
	cobas c501	1.46	0.03	2.2	20
	cobas c503	1.44	0.04	2.6	5

	cobas c702	1.44	0.04	2.5	5
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko	1.42	<0.01	0.5	2
	Indiko Plus	1.43	0.05	3.6	9
	Integra 400	-	-	-	1
	Integra 400 Plus	1.44	0.04	2.5	2
	Konelab Prime 30	1.52	0.04	2.8	2
	Konelab PRIME 60i	1.47	0.03	2.3	9
	Konelab 20	-	-	-	1
	Konelab 20i	1.53	0.04	2.8	6
	Konelab 20XT	-	-	-	1
	Konelab 20XTi	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Trigly)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Trigly)		1.45	0.05	3.7	101
	Lipase, GDH / NADH; photometry	1.49	0.05	3.3	7
	Lipase, GK/G-3-P-oxidase, H2O2, peroxidase / chromogen; photometry	1.45	0.07	4.7	94
Vitros 250-950 5,1 4600 and 5600 (Trigly)		-	-	-	1
	Lipase, GK/G-3-P-oxidase, H2O2, peroxidase / chromogen; reflectance	-	-	-	1

Serum A | TSH, mU/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (TSH)	1.20	1.20	0.08	6.3	0.03	1.09	1.31	-	6
Beckman Coulter Access (TSH)	1.43	1.43	0.10	6.9	0.07	1.36	1.50	-	2
RIA TSH	-	-	-	-	-	1.38	1.38	-	1
Roche systems (TSH)	1.59	1.60	0.07	4.2	0.01	1.46	1.71	-	20
Siemens Advia Centaur and Atellica (TSH)	-	-	-	-	-	1.31	1.31	-	1
All	1.48	1.53	0.17	11.6	0.03	1.09	1.71	-	30



Serum A | TSH, mU/l, Additional summary

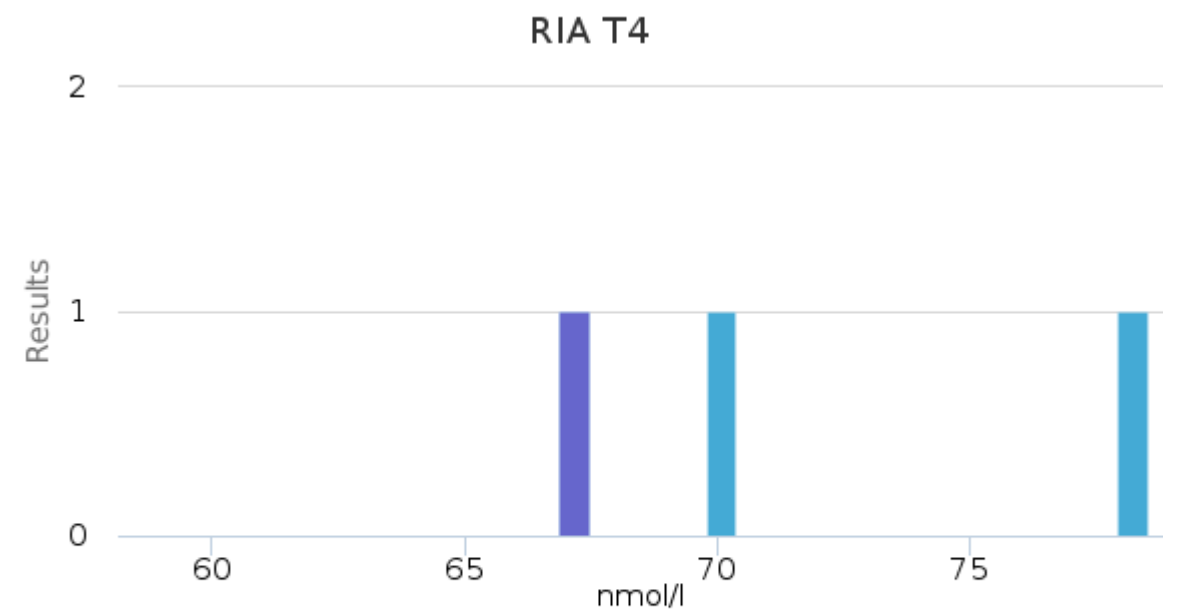
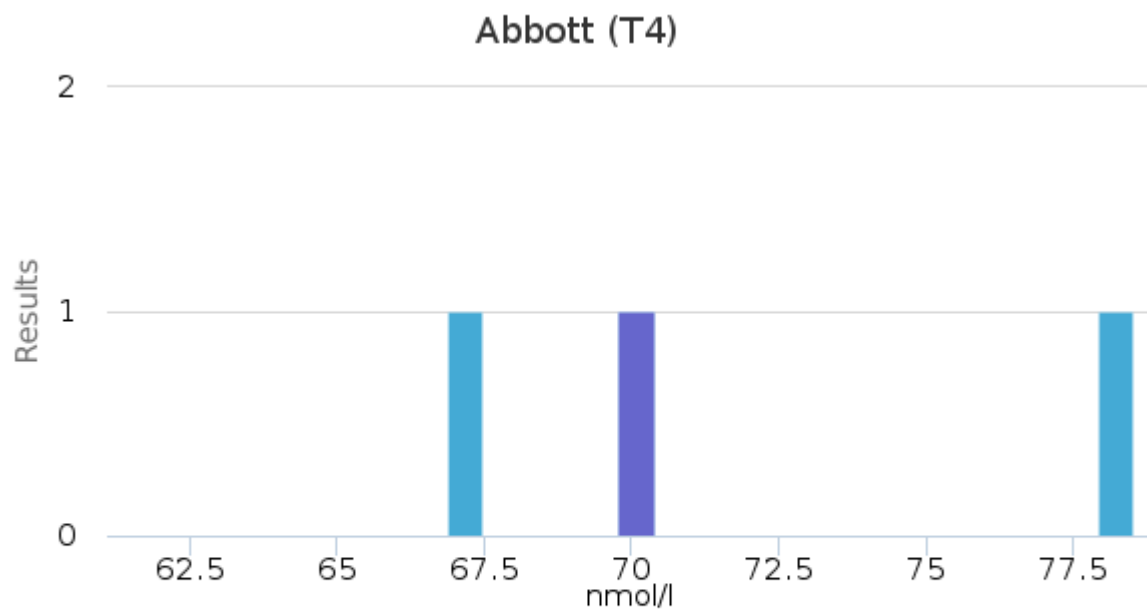
Methodics	Method	x_{pt}	sd	CV%	n
Abbott Architect (TSH)		1.20	0.08	6.3	6
	Abbott Aeroset, Architect	1.25	0.08	6.2	2
	Abbott Alinity	1.15	0.06	5.1	3
	Abbott Architect	-	-	-	1
Beckman Coulter Access (TSH)		1.43	0.10	6.9	2
	Beckman Coulter Access	1.43	0.10	6.9	2
RIA TSH		-	-	-	1
	Beckman Coulter Immunotech RIA	-	-	-	1
Roche systems (TSH)		1.59	0.07	4.2	20
	Roche cobas	1.58	0.07	4.1	17
	Roche Elecsys	1.61	0.08	4.7	3
Siemens Advia Centaur and Atellica (TSH)		-	-	-	1
	Siemens Advia Centaur	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott Architect (TSH)		1.20	0.08	6.3	6
	Alinity i	1.15	0.06	5.1	3
	Architect ci8200	1.25	0.08	6.2	2
	Architect i1000 SR	-	-	-	1
Beckman Coulter Access (TSH)		1.43	0.10	6.9	2
	Access 2	1.43	0.10	6.9	2
RIA TSH		-	-	-	1
	Gammacounter	-	-	-	1
Roche systems (TSH)		1.59	0.07	4.2	20
	cobas e402	-	-	-	1
	cobas e411	1.64	0.05	3.2	4
	cobas e601	1.59	0.05	3.3	10
	cobas e602	-	-	-	1
	cobas e801	1.56	0.08	5.3	4
Siemens Advia Centaur and Atellica (TSH)		-	-	-	1
	Advia Centaur XPT	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott Architect (TSH)		1.20	0.08	6.3	6
	Chemiluminescence immunoassay	1.18	0.06	5.1	5
	Luminoimmunoassay	-	-	-	1
Beckman Coulter Access (TSH)		1.43	0.10	6.9	2
	Luminoimmunoassay	1.43	0.10	6.9	2
RIA TSH		-	-	-	1
	Radioimmunoassay	-	-	-	1
Roche systems (TSH)		1.59	0.07	4.2	20
	Electrochemiluminescence immunoassay	1.59	0.07	4.2	20
Siemens Advia Centaur and Atellica (TSH)		-	-	-	1
	Luminoimmunoassay	-	-	-	1

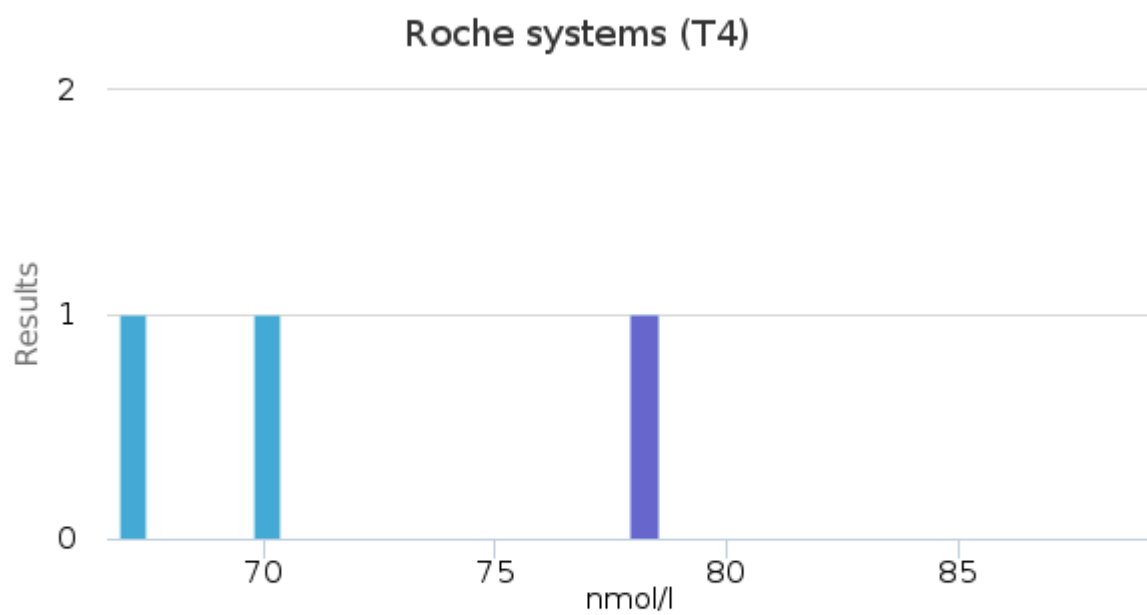
Serum A | T4, nmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott (T4)	-	-	-	-	-	70	70	-	1
RIA T4	-	-	-	-	-	67	67	-	1
Roche systems (T4)	-	-	-	-	-	79	79	-	1
All	72	70	6	8.4	3	67	79	-	3



■ All method groups ■ Abbott (T4)

■ All method groups ■ RIA T4



■ All method groups ■ Roche systems (T4)

Serum A | T4, nmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Abbott (T4)		-	-	-	1
	Abbott Aeroset, Architect	-	-	-	1
RIA T4		-	-	-	1
	Beckman Coulter Immunotech RIA	-	-	-	1
Roche systems (T4)		-	-	-	1
	Roche cobas	-	-	-	1

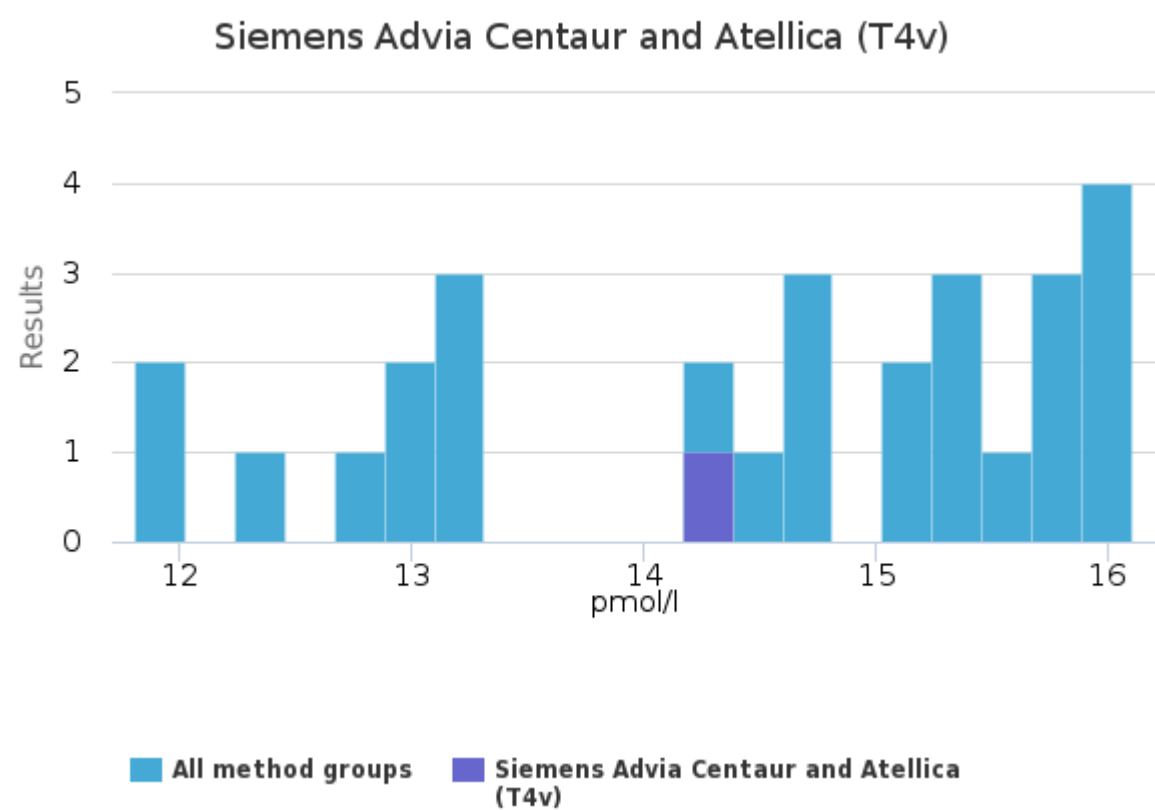
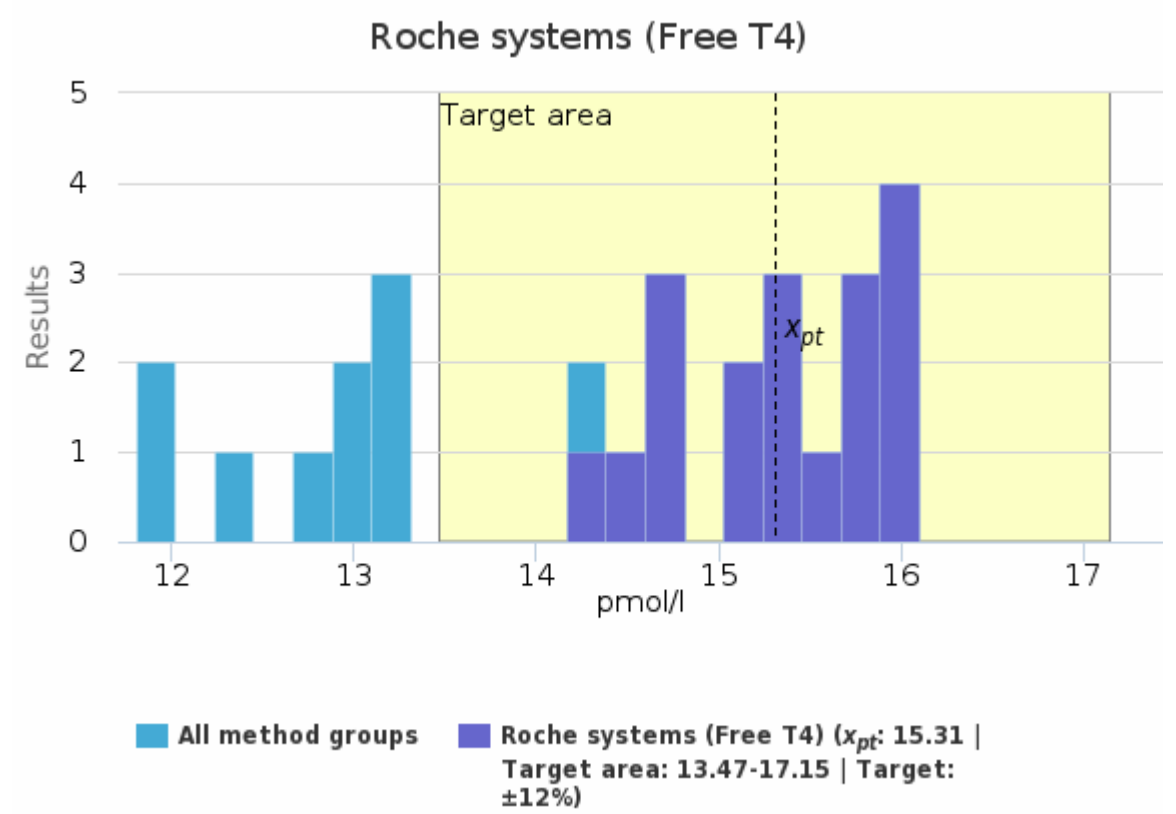
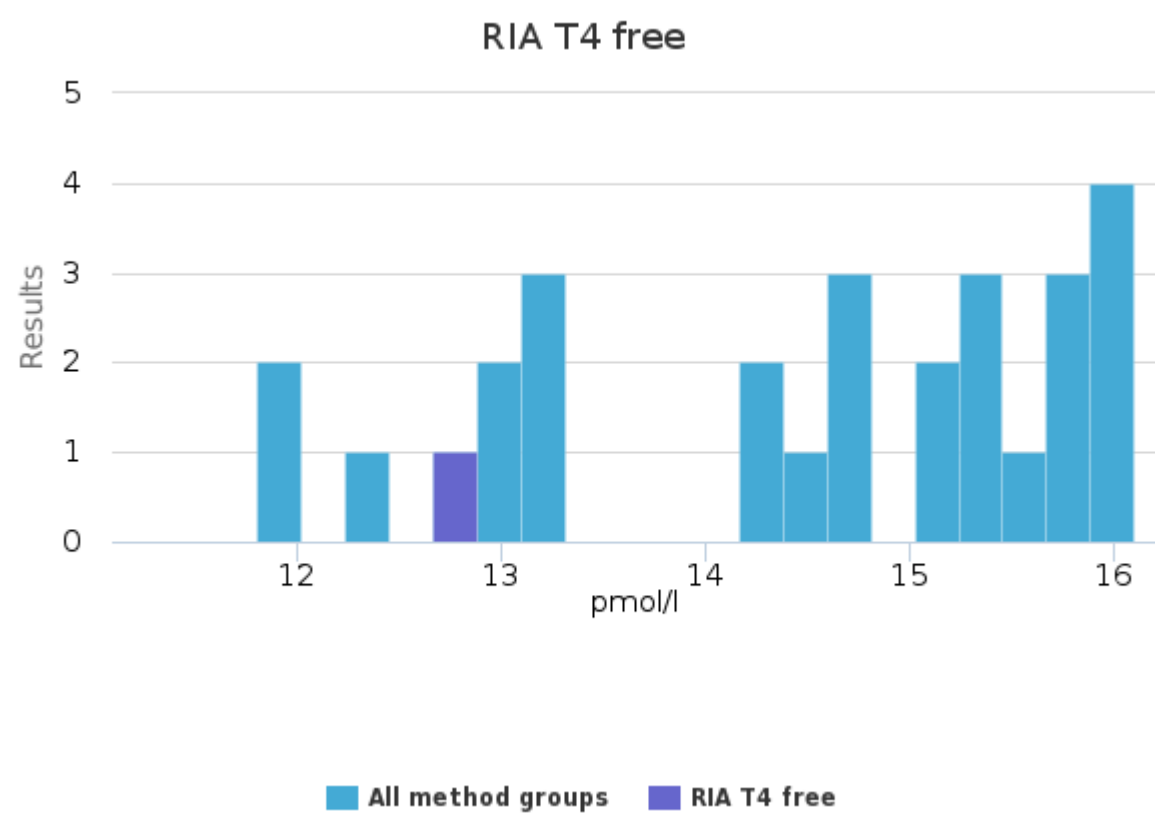
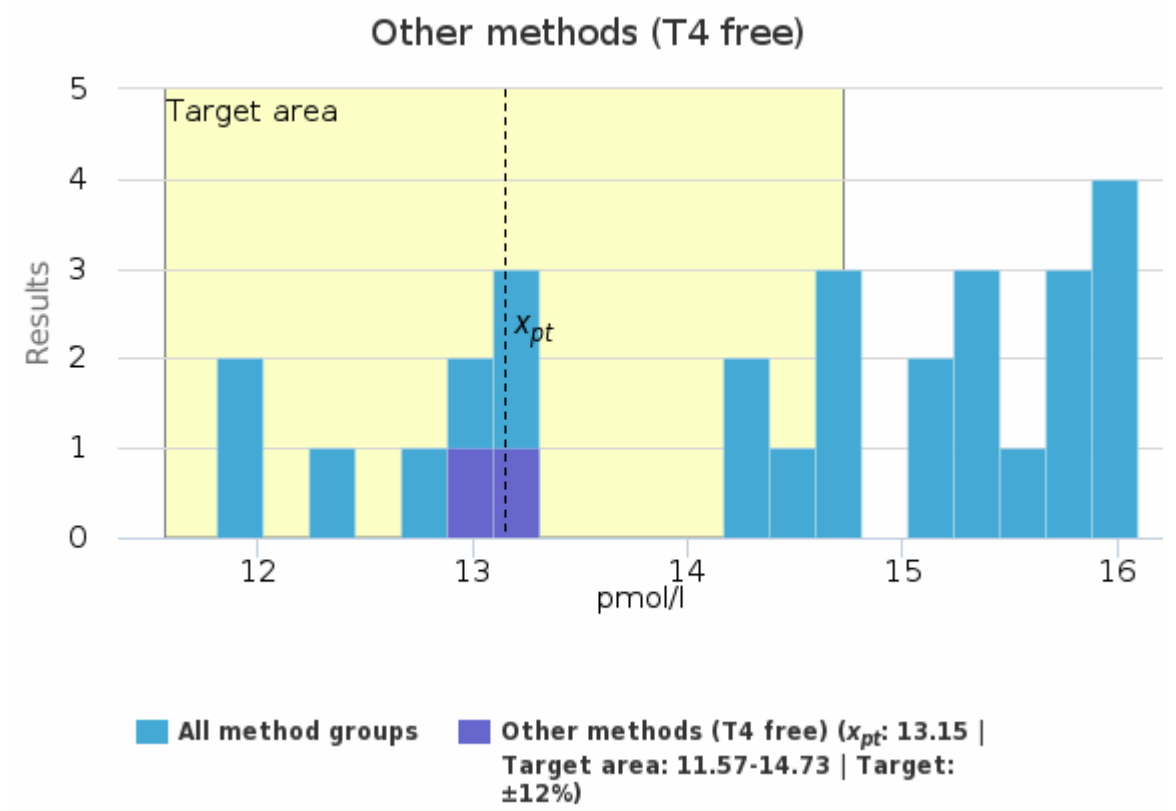
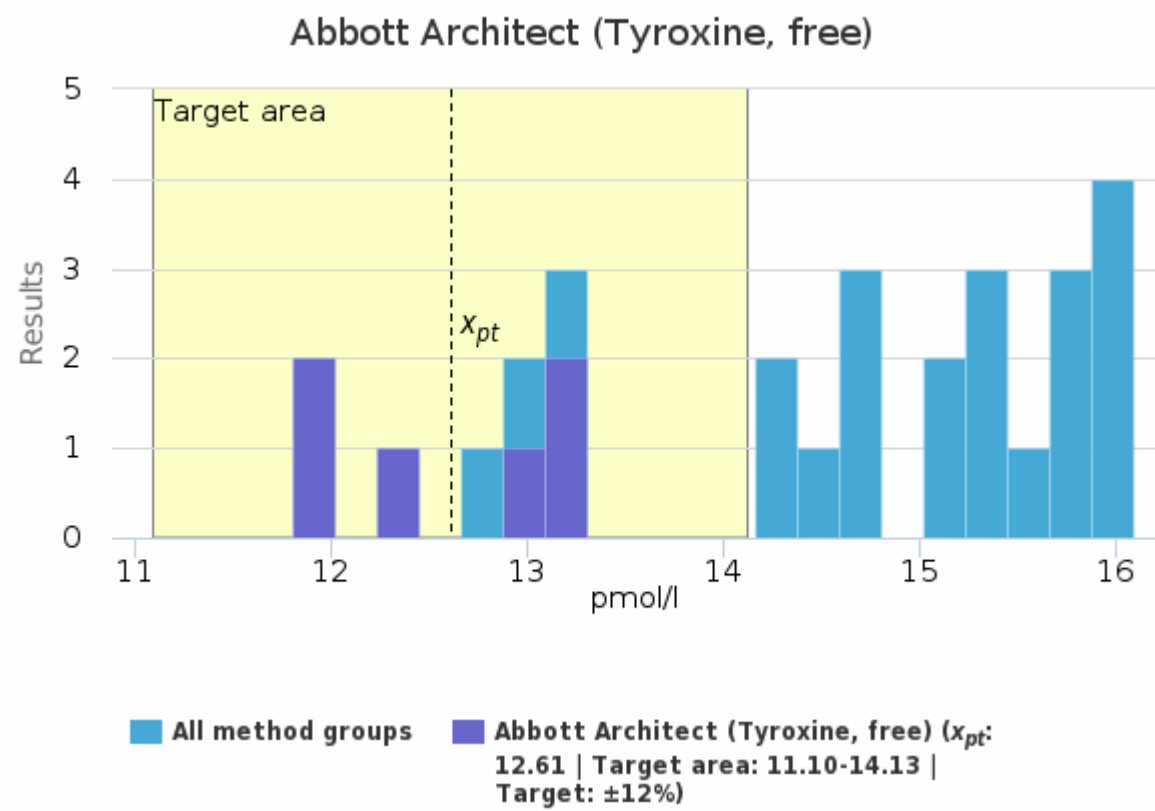
Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott (T4)		-	-	-	1
	Architect ci8200	-	-	-	1
RIA T4		-	-	-	1
	Gammacounter	-	-	-	1
Roche systems (T4)		-	-	-	1
	cobas e411	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott (T4)		-	-	-	1

	Luminoimmunoassay	-	-	-	1
RIA T4		-	-	-	1
	Radioimmunoassay	-	-	-	1
Roche systems (T4)		-	-	-	1
	Electrochemiluminescence immunoassay	-	-	-	1

Serum A | T4 free, pmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect (Tyroxine, free)	12.61	12.74	0.66	5.2	0.27	11.81	13.30	-	6
Other methods (T4 free)	13.15	13.15	0.21	1.6	0.15	13.00	13.30	-	2
RIA T4 free	-	-	-	-	-	12.85	12.85	-	1
Roche systems (Free T4)	15.31	15.36	0.58	3.8	0.14	14.25	16.10	-	18
Siemens Advia Centaur and Atellica (T4v)	-	-	-	-	-	14.35	14.35	-	1
All	14.46	14.70	1.33	9.2	0.25	11.81	16.10	-	28



Serum A | T4 free, pmol/l, Additional summary

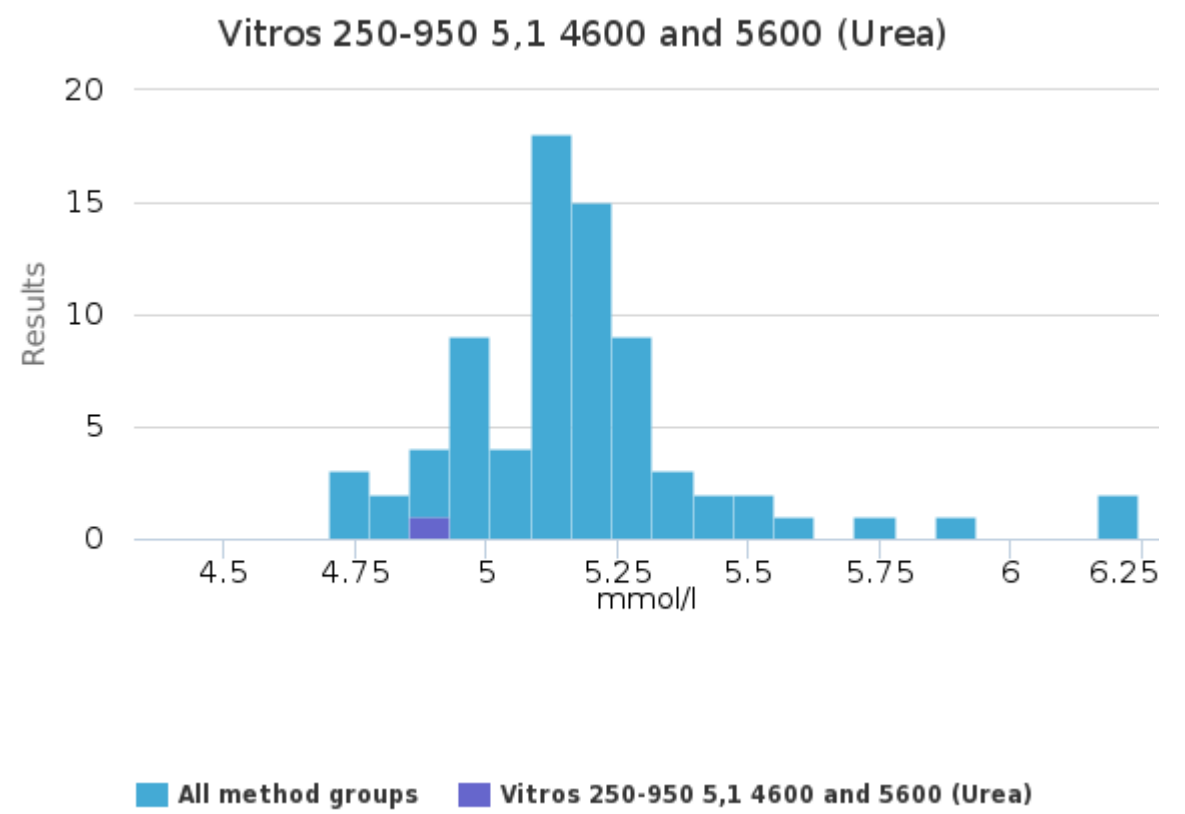
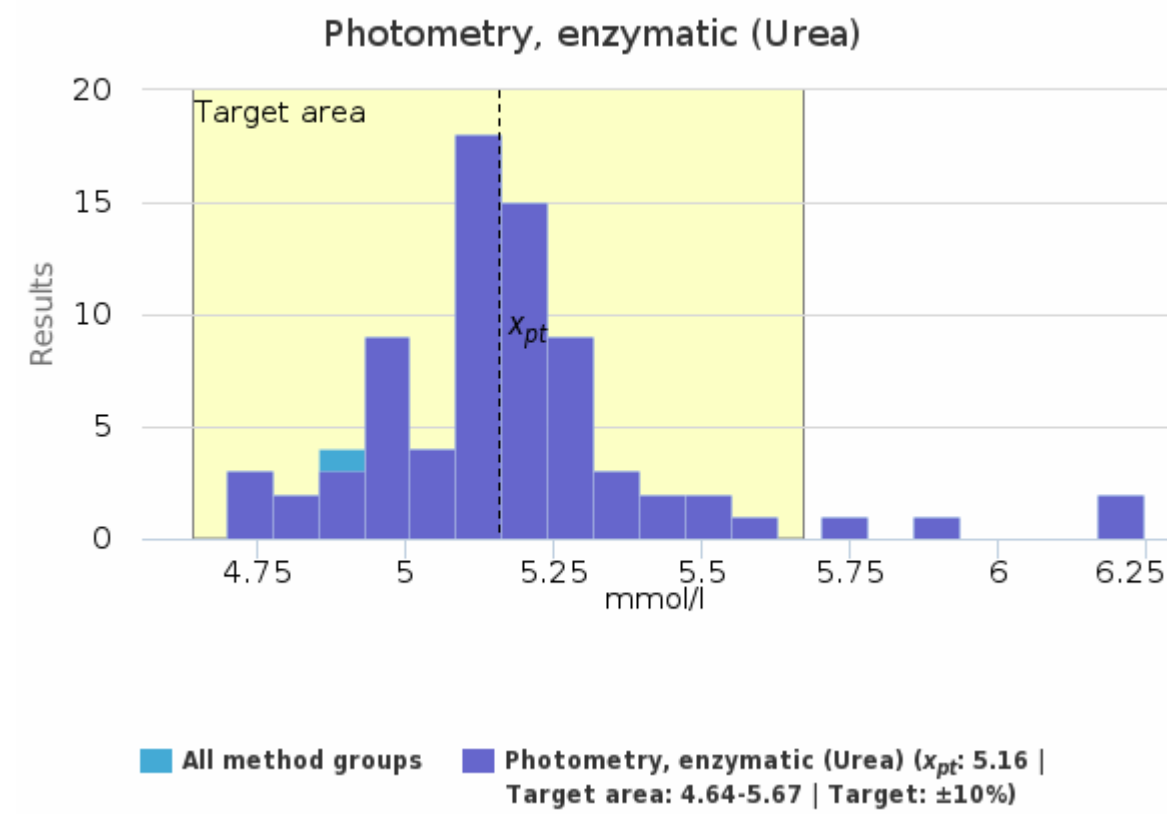
Methodics	Method	x_{pt}	sd	CV%	n
Abbott Architect (Tyroxine, free)		13	<1	5.2	6
	Abbott Aeroset, Architect	13	<1	1.2	2
	Abbott Alinity	12	<1	5.1	3
	Abbott Architect	-	-	-	1
Other methods (T4 free)		13	<1	1.6	2
	Beckman Coulter Access	13	<1	1.6	2
RIA T4 free		-	-	-	1
	Beckman Coulter Immunotech RIA	-	-	-	1
Roche systems (Free T4)		15	<1	3.8	18
	Roche cobas	15	<1	3.8	14
	Roche Elecsys	15	<1	4.2	4
Siemens Advia Centaur and Atellica (T4v)		-	-	-	1
	Siemens Advia Centaur	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Abbott Architect (Tyroxine, free)		13	<1	5.2	6
	Alinity i	12	<1	5.1	3
	Architect ci8200	13	<1	1.2	2
	Architect i1000 SR	-	-	-	1
Other methods (T4 free)		13	<1	1.6	2
	Access 2	13	<1	1.6	2
RIA T4 free		-	-	-	1
	Gammacounter	-	-	-	1
Roche systems (Free T4)		15	<1	3.8	18
	cobas e402	-	-	-	1
	cobas e411	15	<1	3.5	4
	cobas e601	15	<1	2.8	8
	cobas e602	-	-	-	1
	cobas e801	15	<1	4.0	4
Siemens Advia Centaur and Atellica (T4v)		-	-	-	1
	Advia Centaur XPT	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Abbott Architect (Tyroxine, free)		13	<1	5.2	6
	Chemiluminescence immunoassay	12	<1	5.1	4
	Luminoimmunoassay	13	<1	1.2	2
Other methods (T4 free)		13	<1	1.6	2
	Chemiluminescence immunoassay	13	<1	1.6	2
RIA T4 free		-	-	-	1
	Radioimmunoassay	-	-	-	1
Roche systems (Free T4)		15	<1	3.8	18
	Electrochemiluminescence immunoassay	15	<1	3.8	18
Siemens Advia Centaur and Atellica (T4v)		-	-	-	1
	Luminoimmunoassay	-	-	-	1

Serum A | Urea, mmol/l

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Urea)	5.16	5.16	0.21	4.1	0.02	4.70	5.90	2	75
Vitros 250-950 5,1 4600 and 5600 (Urea)	-	-	-	-	-	4.90	4.90	-	1
All	5.15	5.16	0.21	4.1	0.02	4.70	5.90	2	76



Serum A | Urea, mmol/l, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Urea)		5.16	0.21	4.1	75
	Abbott Aeroset, Architect	5.16	0.21	4.0	5
	Abbott Alinity	4.92	0.18	3.6	4
	AU instruments	5.25	0.39	7.4	9
	BioSystems	5.40	0.46	8.5	3
	Biotechnica	-	-	-	1
	Cormay	5.90	0.42	7.2	2
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	5.13	0.14	2.6	34
	Roche Cobas Integra	4.88	0.17	3.5	4
	Siemens Advia	5.35	0.12	2.3	5
	Siemens Dimension	5.33	<0.01	<0.1	2
	Thermo Scientific	5.17	0.06	1.1	3
Vitros 250-950 5,1 4600 and 5600 (Urea)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

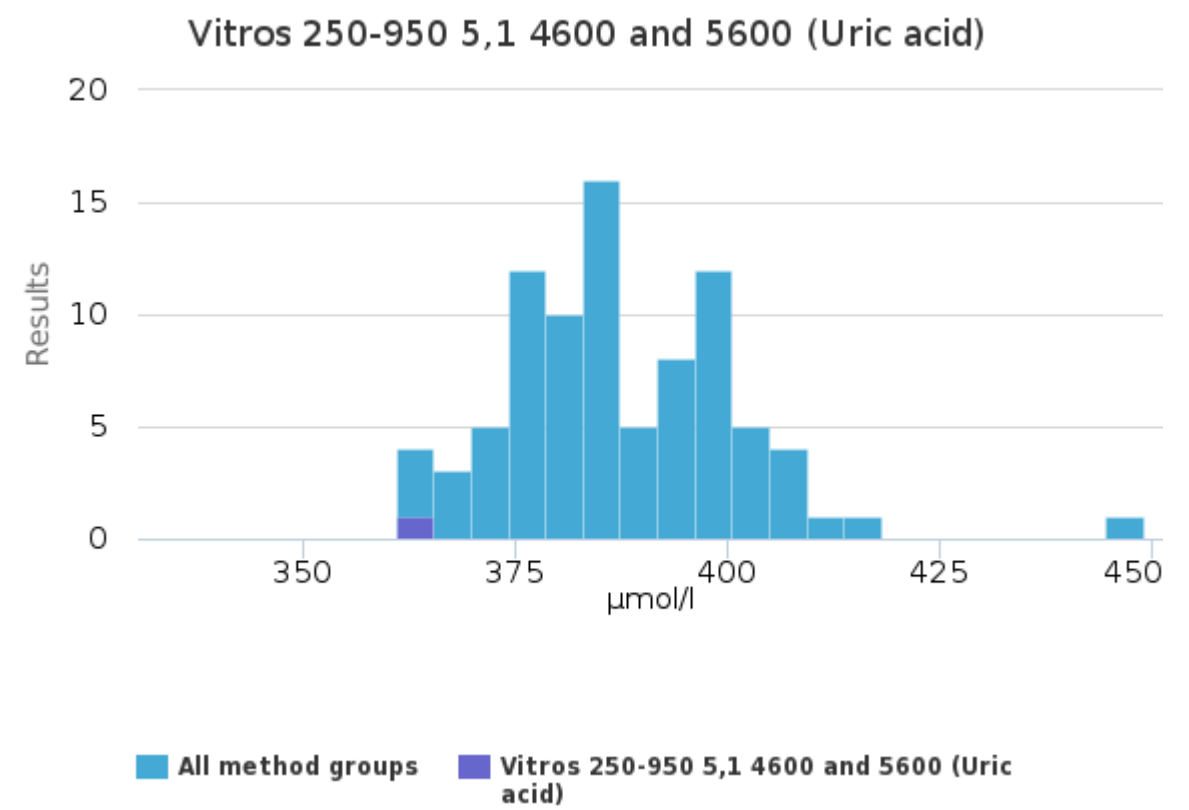
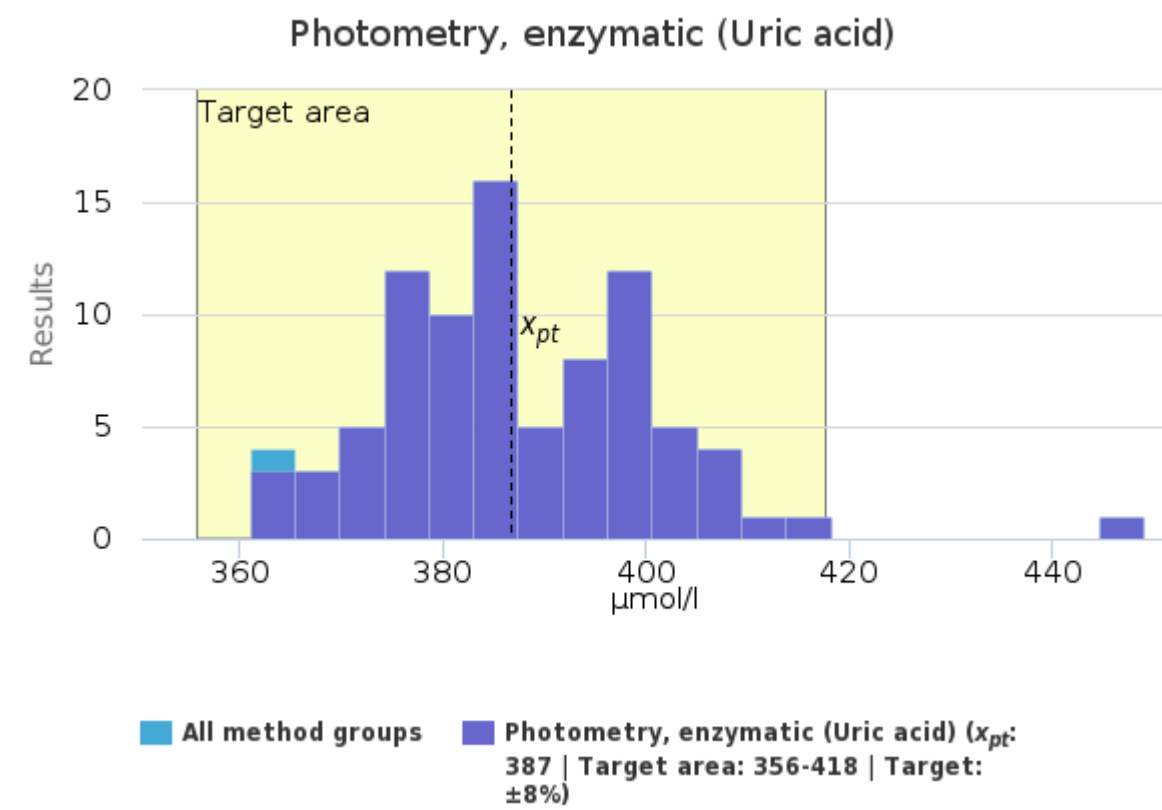
Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Urea)		5.16	0.21	4.1	75
	Advia Chemistry XPT	5.40	0.08	1.5	4
	Advia 1800	-	-	-	1
	Alinity c	4.92	0.18	3.6	4
	Architect c8000	-	-	-	1
	Architect ci4100	5.14	0.06	1.1	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	5.39	0.49	9.1	5
	AU 680	5.07	0.09	1.7	4
	A25 Automatic Analyzer	5.40	0.46	8.5	3
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	5.25	0.07	1.3	2
	cobas c501	5.15	0.10	1.9	24
	cobas c503	5.22	0.05	0.9	3
	cobas c702	4.95	0.18	3.7	5

	Dimension EXL	5.33	<0.01	<0.1	2
	Erba XL 100	-	-	-	1
	Indiko Plus	5.15	0.07	1.4	2
	Integra 400	-	-	-	1
	Integra 400 Plus	4.90	0.20	4.1	3
	Konelab 60i	-	-	-	1
	LabAnalyt SA	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Urea)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Urea)		5.16	0.21	4.1	75
	Urease, glutamate dehydrogenase / NADH; photometry	5.19	0.27	5.2	75
Vitros 250-950 5,1 4600 and 5600 (Urea)		-	-	-	1
	Urease / ammonia indicator; reflectance	-	-	-	1

Serum A | Uric acid, $\mu\text{mol/l}$

Methodics	x_{pt}	Median	sd	CV%	SEM	min	max	Outliers	n
Photometry, enzymatic (Uric acid)	387	384	12	3.0	1	361	414	1	86
Vitros 250-950 5,1 4600 and 5600 (Uric acid)	-	-	-	-	-	365	365	-	1
All	386	384	12	3.1	1	361	414	1	87



Serum A | Uric acid, $\mu\text{mol/l}$, Additional summary

Methodics	Method	x_{pt}	sd	CV%	n
Photometry, enzymatic (Uric acid)		387	12	3.0	86
	Abbott Aeroset, Architect	386	19	4.8	5
	Abbott Alinity	383	12	3.0	4
	AU instruments	391	6	1.5	8
	BioSystems	-	-	-	1
	Biotechnica	-	-	-	1
	Cormay	-	-	-	1
	Erba	-	-	-	1
	Mindray	-	-	-	1
	Roche	-	-	-	1
	Roche cobas	379	8	2.1	35
	Roche Cobas Integra	395	8	2.0	3
	Siemens Advia	399	3	0.8	5
	Siemens Dimension	393	8	2.1	2
	Thermo Scientific	396	10	2.5	18
Vitros 250-950 5,1 4600 and 5600 (Uric acid)		-	-	-	1
	Ortho Vitros 250-950 and 5,1	-	-	-	1

Methodics	Instrument	x_{pt}	sd	CV%	n
Photometry, enzymatic (Uric acid)		387	12	3.0	86
	Advia Chemistry XPT	398	4	0.9	4
	Advia 1800	-	-	-	1
	Alinity c	383	12	3.0	4
	Architect c8000	-	-	-	1
	Architect ci4100	380	5	1.2	2
	Architect ci8200	-	-	-	1
	Architect c4000	-	-	-	1
	AU 480	395	6	1.4	4
	AU 680	387	3	0.7	4
	A25 Automatic Analyzer	-	-	-	1
	BT 3500	-	-	-	1
	cobas c303	-	-	-	1
	cobas c311	381	3	0.9	4
	cobas c501	380	10	2.5	21
	cobas c503	377	5	1.4	5
	cobas c702	375	3	0.8	5

	Dimension EXL	-	-	-	1
	Dimension EXL 200	-	-	-	1
	Erba XL 100	-	-	-	1
	Indiko Plus	388	8	1.9	3
	Integra 400	-	-	-	1
	Integra 400 Plus	397	11	2.7	2
	Konelab Prime 30	-	-	-	1
	Konelab PRIME 60i	400	6	1.5	8
	Konelab 20i	387	10	2.6	3
	Konelab 20XTi	-	-	-	1
	Konelab 30i	-	-	-	1
	Konelab 60i	-	-	-	1
	Mindray BS-480	-	-	-	1
	Sapphire 400	-	-	-	1
Vitros 250-950 5,1 4600 and 5600 (Uric acid)		-	-	-	1
	Vitros 350	-	-	-	1

Methodics	Chemical principle	x_{pt}	sd	CV%	n
Photometry, enzymatic (Uric acid)		387	12	3.0	86
	Uricase / allantoin; photometry	387	12	3.0	19
	Uricase, H ₂ O ₂ , peroxidase / chromogen; photometry	388	14	3.6	67
Vitros 250-950 5,1 4600 and 5600 (Uric acid)		-	-	-	1
	Uricase, H ₂ O ₂ , peroxidase / chromogen; reflectance	-	-	-	1

Report info**Participants**

115 participants from 9 countries.

Report info

Your own result should be compared to others using the same method.

Assigned values (\bar{x}_p , target values) are means of the results where results deviating more than ± 3 standard deviation from the median are removed. The standard uncertainty (u) of

the assigned value is reported as standard error of the mean (SEM). Additionally, if the measurement uncertainty of the target value is large an automatic text is printed on the report: "The uncertainty of the assigned value is not negligible, and evaluations could be affected."

In case the client's result is the only one in the method group, no assigned value will be calculated, no target area shown, and no statistics calculated. In case there are only a few results in the client's own method group, the result can be compared to all method mean or to a group that is similar to the own method. Results reported with $<$ or $>$ -signs cannot be included in the statistics.

For information on report interpretation and performance evaluation, please see the "EOAS Interpretation guidelines" LabScala User instructions (top right corner ?Help link).

External Quality Assessment Scheme

General Chemistry, Serum A Round 01, 2023

Specimens

Sample ST-JAN-23 (LQ723623011) was lyophilized human serum sample.

Based on the previous tests and the results of this round, the samples are homogeneous, stable, and suitable for the external quality assessment scheme. The materials were sent without temperature control packaging.

Report info

Please see the description of the data analysis on the last page of the laboratory-specific histogram and Numerical Summary reports. It is important to read the Final report first, because it contains important information of the samples and results in each round.

Comments – EQA Coordinator

We kindly ask the customers to review their results and methods and contact Labquality if there are any errors in the methods.

In the round, 12 deviating results were excluded from the calculation. The reasons for the exclusion were wrong units in the results, reporting the result to wrong analyte or the result deviates from other results because of an unknown reason. We ask kindly customers to pay attention to recording the results.

LDH and TfR

Transferrin receptor results in the Roche group are twice as high as those of Siemens nephelometry, Thermo Scientific and turbidometry because of different standardization. In LDH, the results of the IFCC methods and the results of the DGKC are clearly different, with the DGKC being at a higher level as in previous rounds.

Comments – Expert

ST-JAN-23 is a human serum with electrolyte, glucose and cholesterol concentrations within the reference ranges, as are the activities of most enzymes. The sample has previously been a round sample of general chemistry in June, August, October, and December 2022.

Amylase

The level of the output group "Other methods, converted to the IFCC level" is lower than the IFCC level and the variation of the results is increased (CV=9.4%, n=23). The substrate of these methods is Cl-G3-pNP, while the substrate of the IFCC-recommended methods is Ethyl.-G7-pNP (EPS).

Bilirubin

Methods using vanadate oxidation have been separated into their own group due to their higher result level. In the photometry group, the results of Abbott Aeroset, Architect and Alinity are at the level of the Vanadate oxidation group. Almost half of the results of the photometry group, 42/92, have been measured with the Roche cobas method, whose level is lower than the others.

Cholesterol HDL and LDL

The levels of the HDL methods are quite identical and the intra method variations are small. The variation of all HDL results is good, CV=5.0% (n=99). The intra method variations of the LDL methods are also small.

For detailed evaluation of the results, please study the summary report.

End of report

2023-02-06

FINAL REPORT

Product no. 1072, 1072S

Samples sent 2023-01-09
Round closed 2023-01-31
Report released 2023-02-06

Request for correction

Typing errors in laboratory's result forms are on laboratory's responsibility. Labquality accepts responsibility only for result processing. Requests must be notified by writing within three weeks from the date of this letter.

Authorized by

EQA Coordinator
Päivi Ranta
paivi.ranta@labquality.fi

Expert

M.Sc, Chemist Ulla-Riitta Nordberg

Labquality Oy

Kumpulantie 15
FI-00520 HELSINKI
Finland

Tel. + 358 9 8566 8200

Fax + 358 9 8566 8280

info@labquality.fi
www.labquality.com



Copyright © Labquality Oy

Labquality does not permit any reproduction for commercial purposes of any portion of the material subject to this copyright. Labquality prohibits any use of its name, or reference to Labquality EQA program, or material in this report in any advertising, brochures or other commercial publications. Labquality EQA data do not necessarily indicate the superiority of instruments, reagents, testing equipments or materials used by participating laboratories. Use of Labquality EQA data to suggest superiority or inferiority of equipments or materials may be deceptive and misleading. Proficiency test results are handled confidentially. Labquality will not issue any statements to third parties of the performance of laboratories in external quality assessment schemes unless otherwise agreed.