



3702 C. Chadwick
 Aintree University Hospital
 -

Groot Brittannië

INPUTS 2013.1

Survey	INPUTS 2013.1		
Start date	January, 1 2013		
Supervisor	dr. C. Weykamp MCA Laboratory Streekziekenhuis Koningin Beatrix Winterswijk		
Subscriptions	93		
Result sets	91		

Scores	Your score	MAP	reported
Quantitative	30	38	



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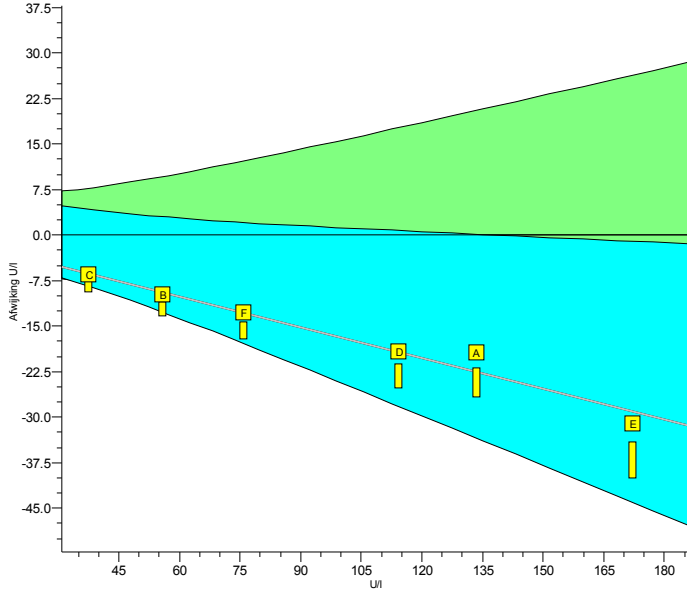
INPUTS 2013.1

Analyte		Trueness				Precision		Performance			
		your mean	ref.	cons.	SDI	your prec.	SDbl	this survey	PS	cumulative PSc	
ALAT	U/l	81.7	98.2	86.9	10.1	1.7	2.7		0		0
Alk. Phosphatase	U/l	168	188	173	15	2	2		2		2
Amylase	U/l	200	207	201	8	2	2		2		2
ASAT	U/l	64.2	78.6	71.5	6.8	0.7	1.6		0		0
Calcium	mmol/l	2.44	2.46	2.47	0.07	0.02	0.02		2		2
Chloride	mmol/l	101.6	101.4	102.3	1.8	0.7	0.9		1		1
CK	U/l	237	244	253	18	4	3		2		2
Creatinine	µmol/l	154.3	149.1	150.7	5.6	2.1	2.1		1		1
eGFR (F, 55, white)	ml/min/1,73m ²	31.0	32.0	32.2	2.6	0.5	0.6		2		2
Gamma-GT	U/l	87.2	87.7	86.3	8.6	1.5	1.2		2		2
Glucose	mmol/l	14.38	13.93	14.19	0.44	0.06	0.18		2		2
LD	U/l	507	532	523	33	19	9		2		2
Magnesium	mmol/l	1.22	1.22	1.23	0.04	0.02	0.02		2		2
Potassium	mmol/l	5.42	5.39	5.30	0.10	0.10	0.04		2		2
Sodium	mmol/l	144.2	144.0	142.7	1.7	1.7	0.9		1		1
Total Protein	g/l	64.5	66.8	66.0	1.8	0.8	0.7		1		1
Urate	µmol/l	361	376	374	15	3	4		2		2
Cholesterol	mmol/l	5.10	5.07	5.15	0.14	0.07	0.05		2		2
HDL-Cholesterol	mmol/l	1.15	1.14	1.17	0.06	0.02	0.03		2		2
Total :									30		30

INPUTS 2013.1

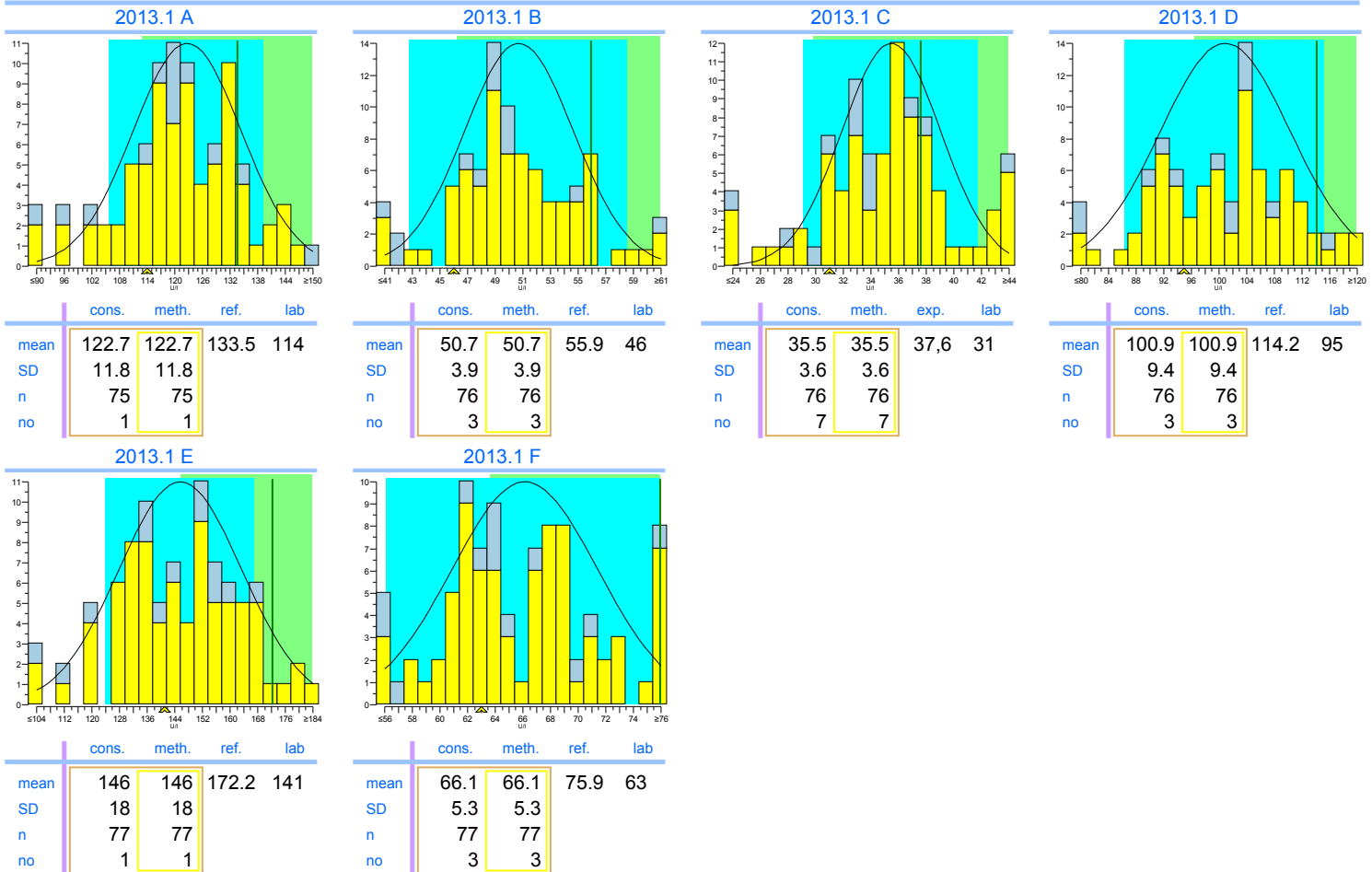
ALAT

units: U/l



	2013.1	cumulative
Trueness	-17%	-17%
Precision	1.9%	1.9%
Number	6	6
Outliers	0	0
Sigma-TE	0.6 0	0.6 0
Sigma-SA	-1.1	-1.1
Score pictogram		
Regression line	$0.0 + 0.831 \cdot x$	$0.0 + 0.831 \cdot x$

Consensus group IFCC traceerbaar
Method IFCC traceable



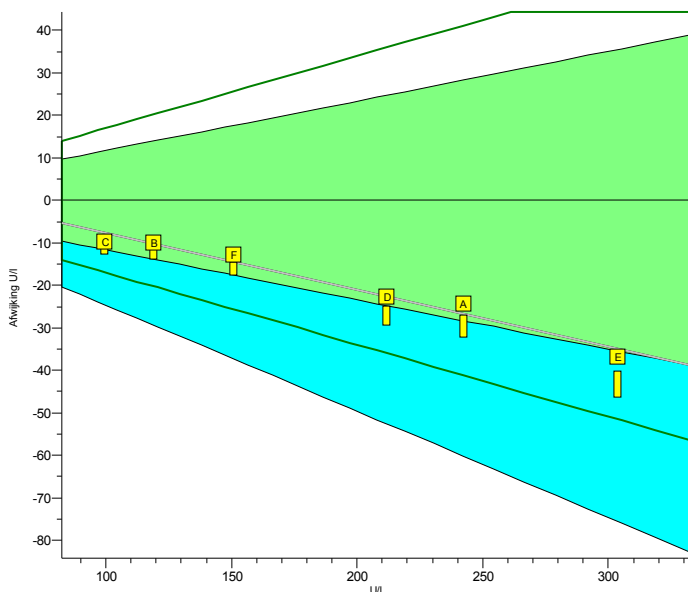
Legend

IFCC traceable IFCC non-traceable

INPUTS 2013.1

Alk. Phosphatase

units: U/l



	2013.1	cumulative
Trueness	-10%	-10%
Precision	0.94%	0.94%
Number	6	6
Outliers	0	0
Sigma-TE	2.6	2.6
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$6 + 0.866.x$	$6 + 0.866.x$

Consensus group IFCC traceerbaar
Method IFCC traceable

2013.1 A

	cons.	meth.	ref.	lab
mean	224	224	242.5	218
SD	19	19		
n	77	77		
no	5	5		

2013.1 B

	cons.	meth.	ref.	lab
mean	110	110	119.1	109
SD	9	9		
n	77	77		
no	5	5		

2013.1 C

	cons.	meth.	exp.	lab
mean	92	92	99.7	90
SD	5	5		
n	76	76		
no	10	10		

2013.1 D

	cons.	meth.	ref.	lab
mean	194	194	211.7	189
SD	14	14		
n	77	77		
no	6	6		

2013.1 E

	cons.	meth.	ref.	lab
mean	280	280	304.0	267
SD	25	25		
n	78	78		
no	3	3		

2013.1 F

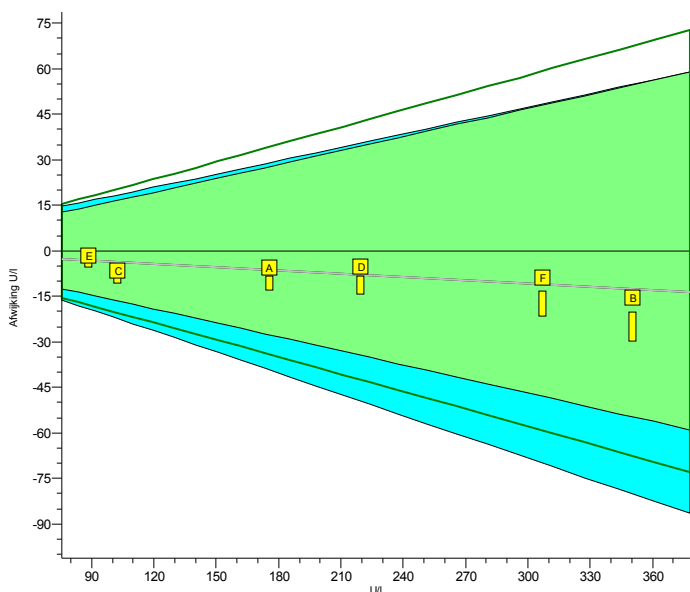
	cons.	meth.	ref.	lab
mean	139	139	150.9	138
SD	11	11		
n	78	78		
no	5	5		



Legend
 IFCC traceable
 IFCC non-traceable

INPUTS 2013.1

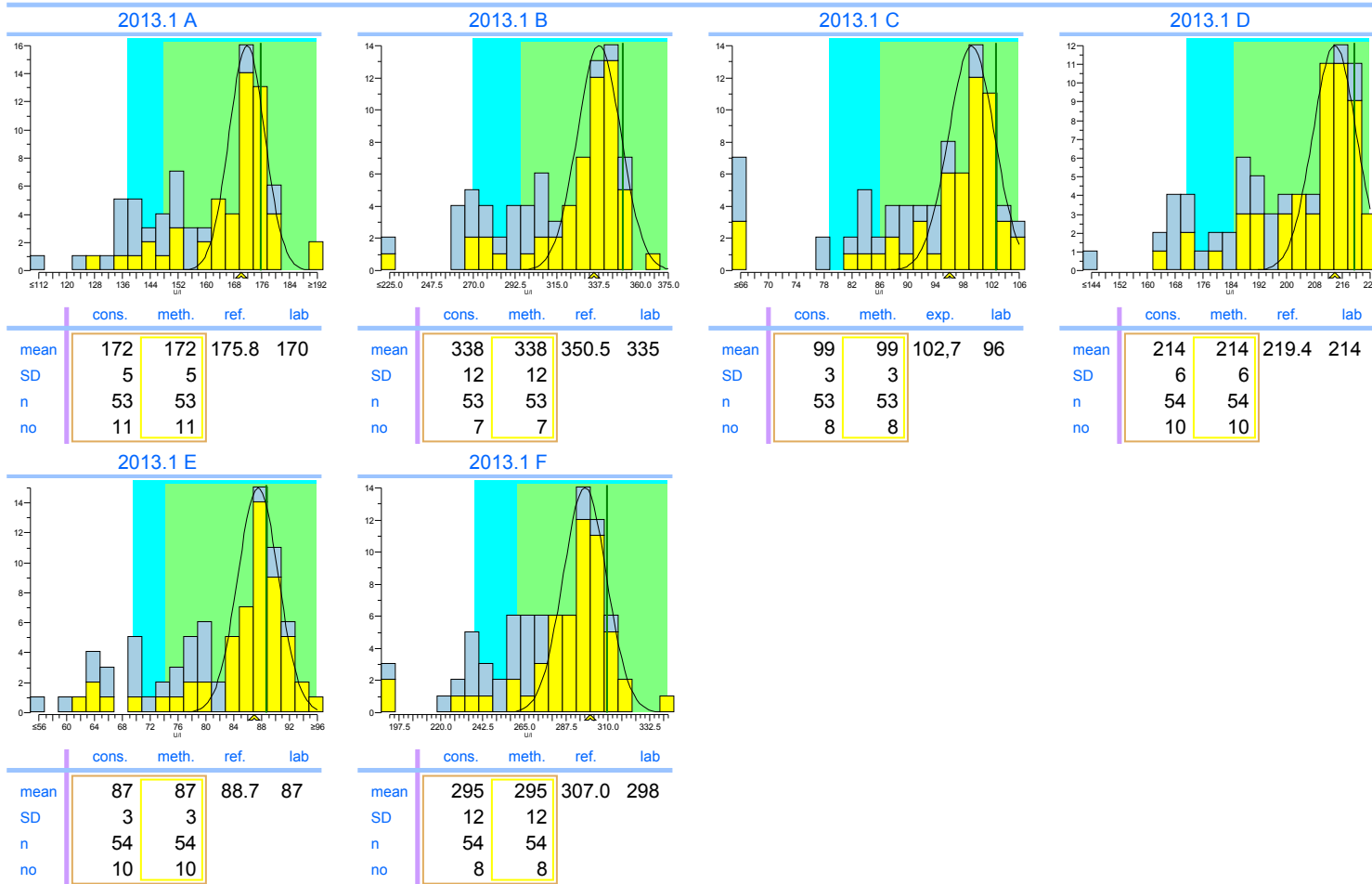
Amylase

units: U/l

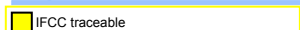
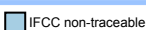


	2013.1	cumulative
Trueness	-3.5%	-3.5%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0 + 0.964 \cdot x$	$0 + 0.964 \cdot x$

Consensus group IFCC traceerbaar
Method IFCC traceable



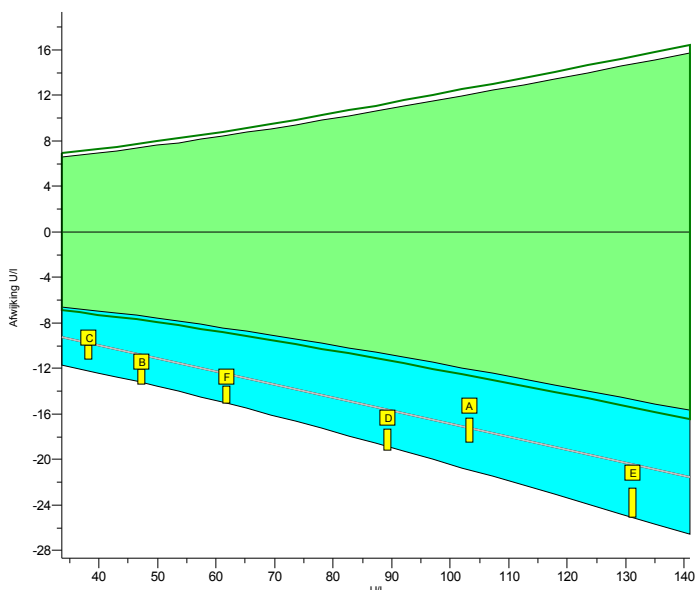
Legend

 IFCC traceable  IFCC non-traceable

INPUTS 2013.1

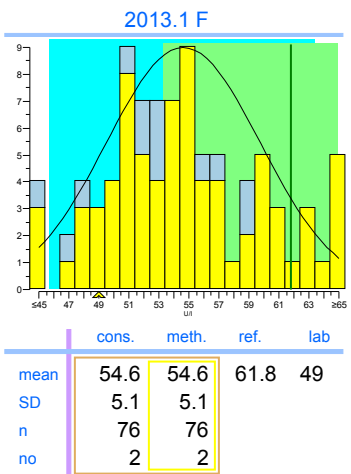
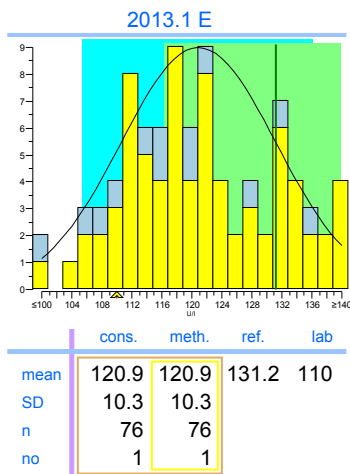
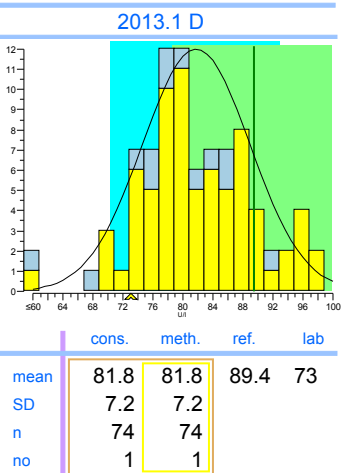
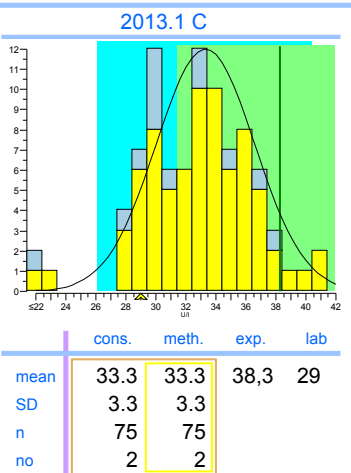
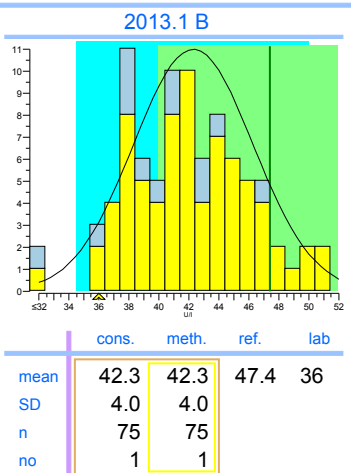
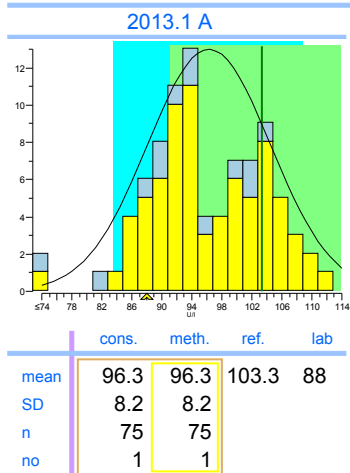
ASAT

units: U/I



	2013.1	cumulative
Trueness	-18%	-18%
Precision	1.0%	1.0%
Number	6	6
Outliers	0	0
Sigma-TE	-2.9	-2.9
Sigma-SA	-2.8 0	-2.8 0
Score pictogram		
Regression line	$-5.4 + 0.886.x$	$-5.4 + 0.886.x$

Consensus group IFCC traceerbaar
Method IFCC traceable



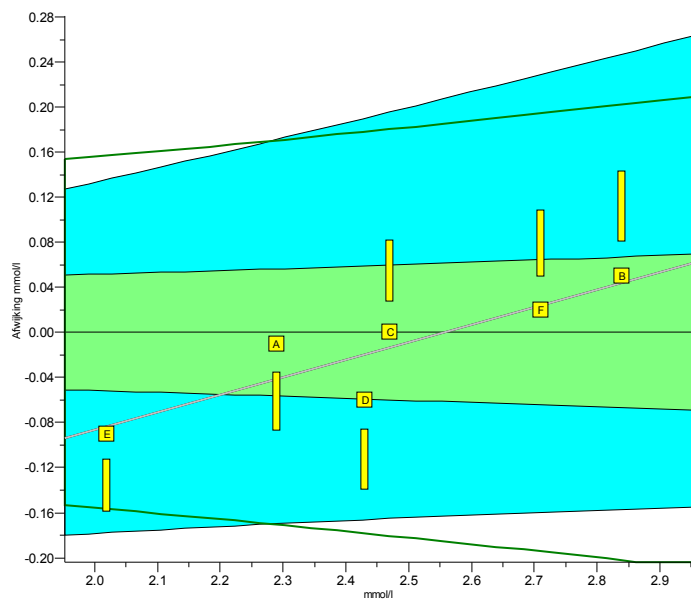
Legend

IFCC traceable IFCC non-traceable

INPUTS 2013.1

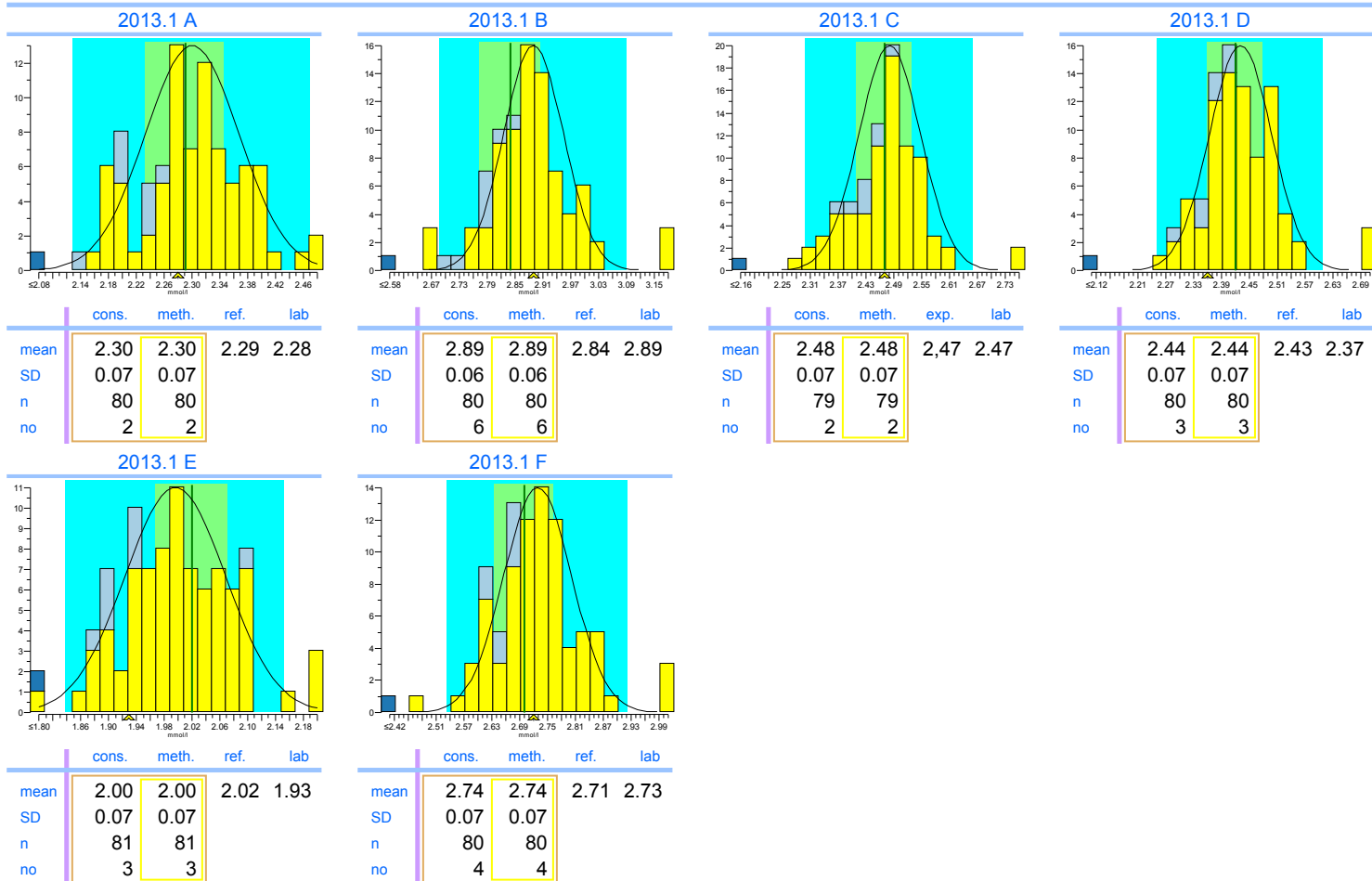
Calcium

units: mmol/l



	2013.1	cumulative
Trueness	-0.61%	-0.61%
Precision	0.89%	0.89%
Number	6	6
Outliers	0	0
Sigma-TE	1.7	1.7
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$-0.40 + 1.156.x$	$-0.40 + 1.156.x$

Consensus group: Colorimetrisch
Method: Colorimetric, automatic, discrete



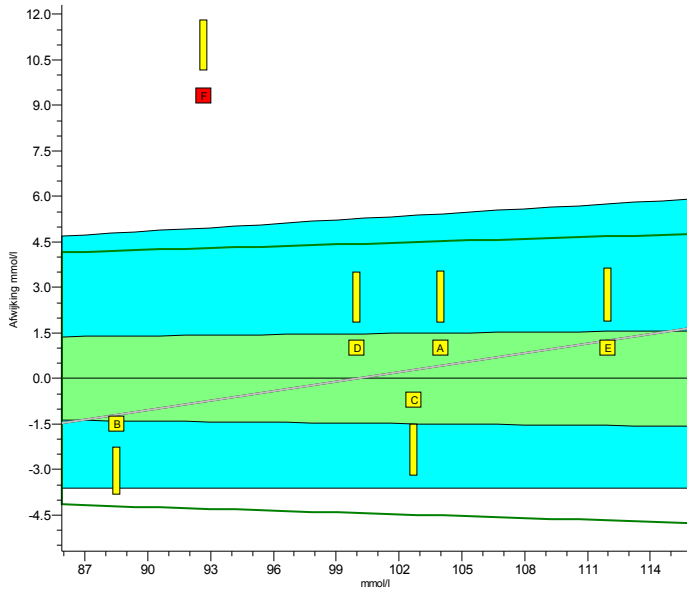
Legend

- Colorimetric, automatic, discrete
- ISE indirect (with predilution)
- Other methods

INPUTs 2013.1

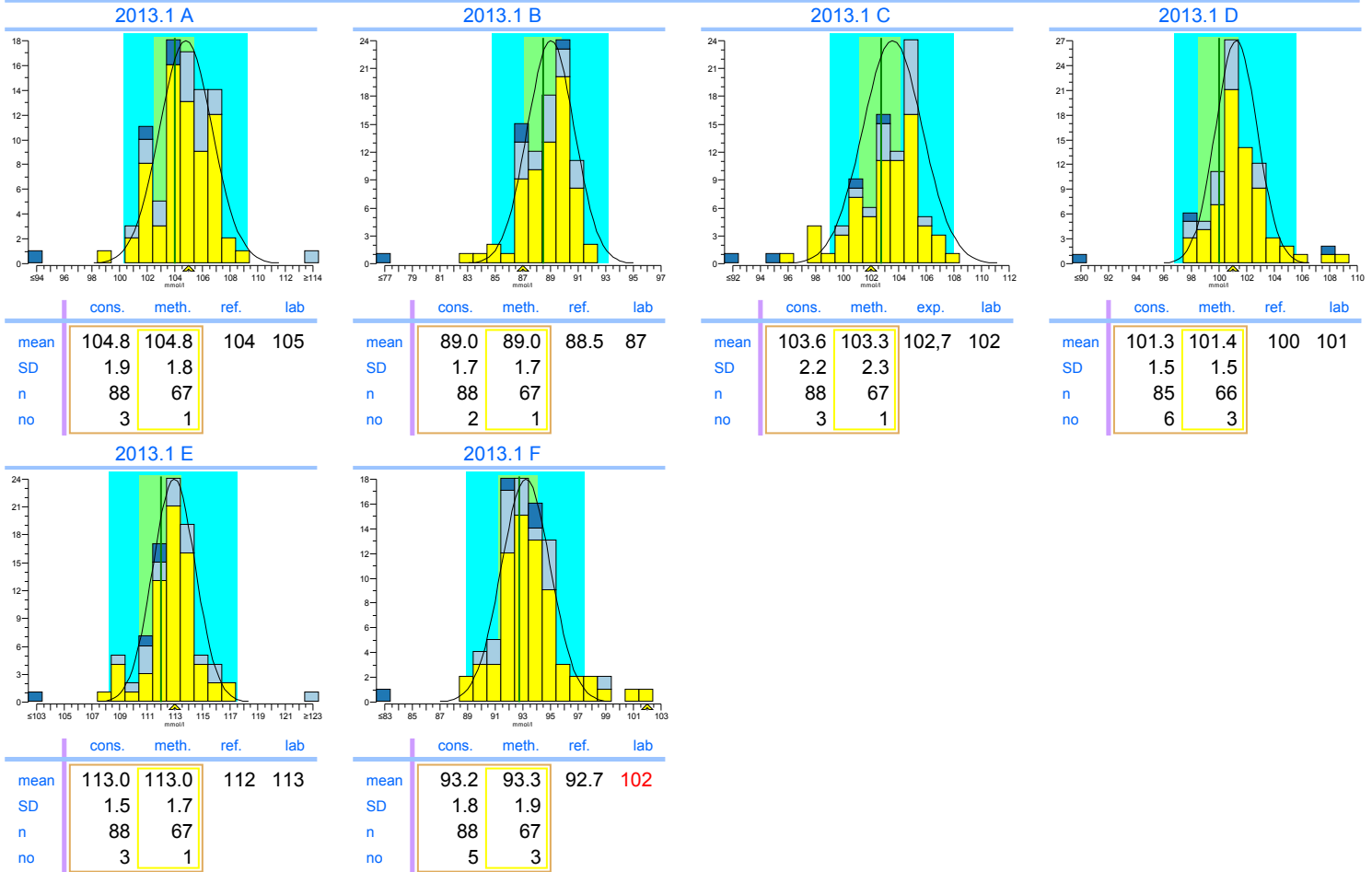
Chloride

units: mmol/l

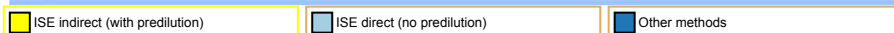


	2013.1	cumulative
Trueness	+0.16%	+0.16%
Precision	0.66%	0.66%
Number	6	6
Outliers	1	1
Sigma-TE	0.7	0.7
Sigma-SA	4.4	4.4
Score pictogram		
Regression line	$-10.4 + 1.104.x$	$-10.4 + 1.104.x$

Consensus group ISE/Colorimetrie
Method ISE indirect (with predilution)



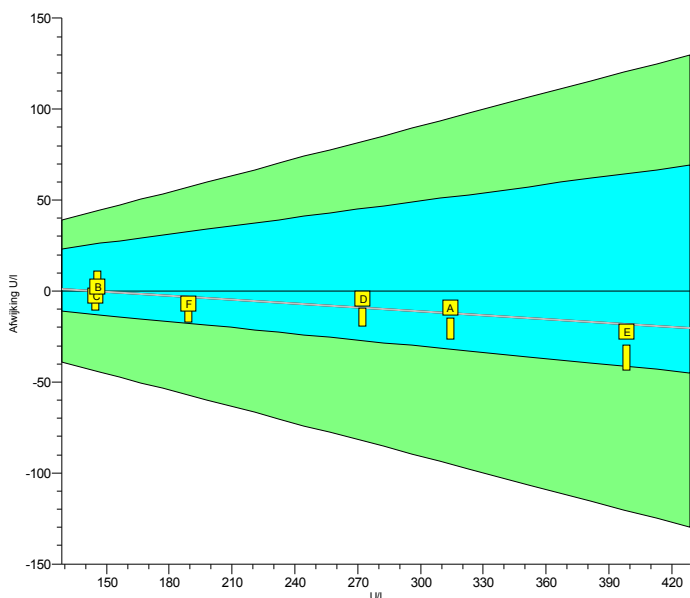
Legend



INPUTS 2013.1

CK

units: U/l



	2013.1	cumulative
Trueness	-3.0%	-3.0%
Precision	1.6%	1.6%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$10 + 0.928 \cdot x$	$10 + 0.928 \cdot x$

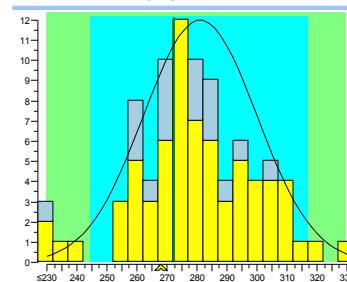
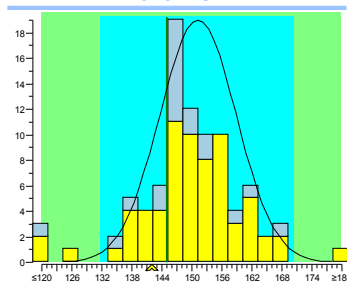
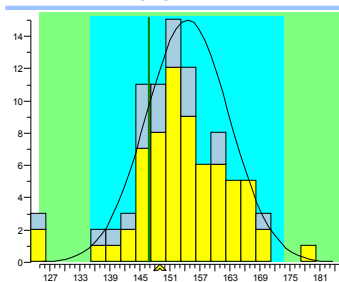
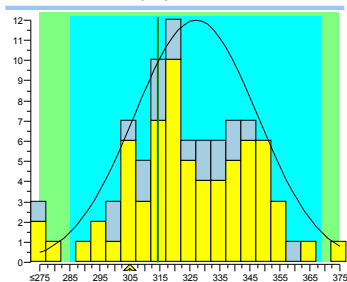
Consensus group IFCC traceerbaar
Method IFCC traceable

2013.1 A

2013.1 B

2013.1 C

2013.1 D



	cons.	meth.	ref.	lab
mean	327	327	314.3	305
SD	21	21		
n	68	68		
no	2	2		

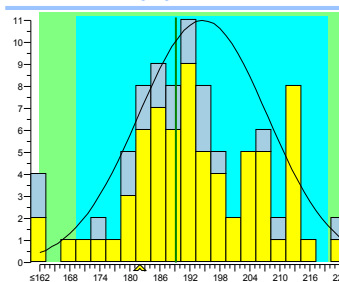
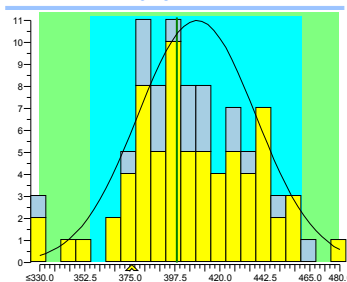
	cons.	meth.	ref.	lab
mean	154	154	145.8	148
SD	8	8		
n	67	67		
no	3	3		

	cons.	meth.	exp.	lab
mean	151	151	145	142
SD	8	8		
n	68	68		
no	4	4		

	cons.	meth.	ref.	lab
mean	281	281	272.3	268
SD	19	19		
n	69	69		
no	2	2		

2013.1 E

2013.1 F



	cons.	meth.	ref.	lab
mean	409	409	398.4	376
SD	30	30		
n	69	69		
no	2	2		

	cons.	meth.	ref.	lab
mean	195	195	189.2	182
SD	13	13		
n	69	69		
no	2	2		

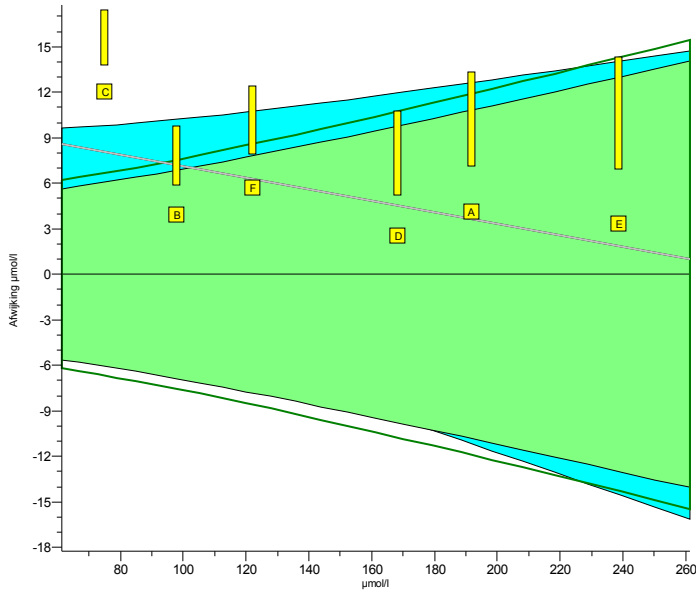
Legend

IFCC traceable IFCC non-traceable

INPUTS 2013.1

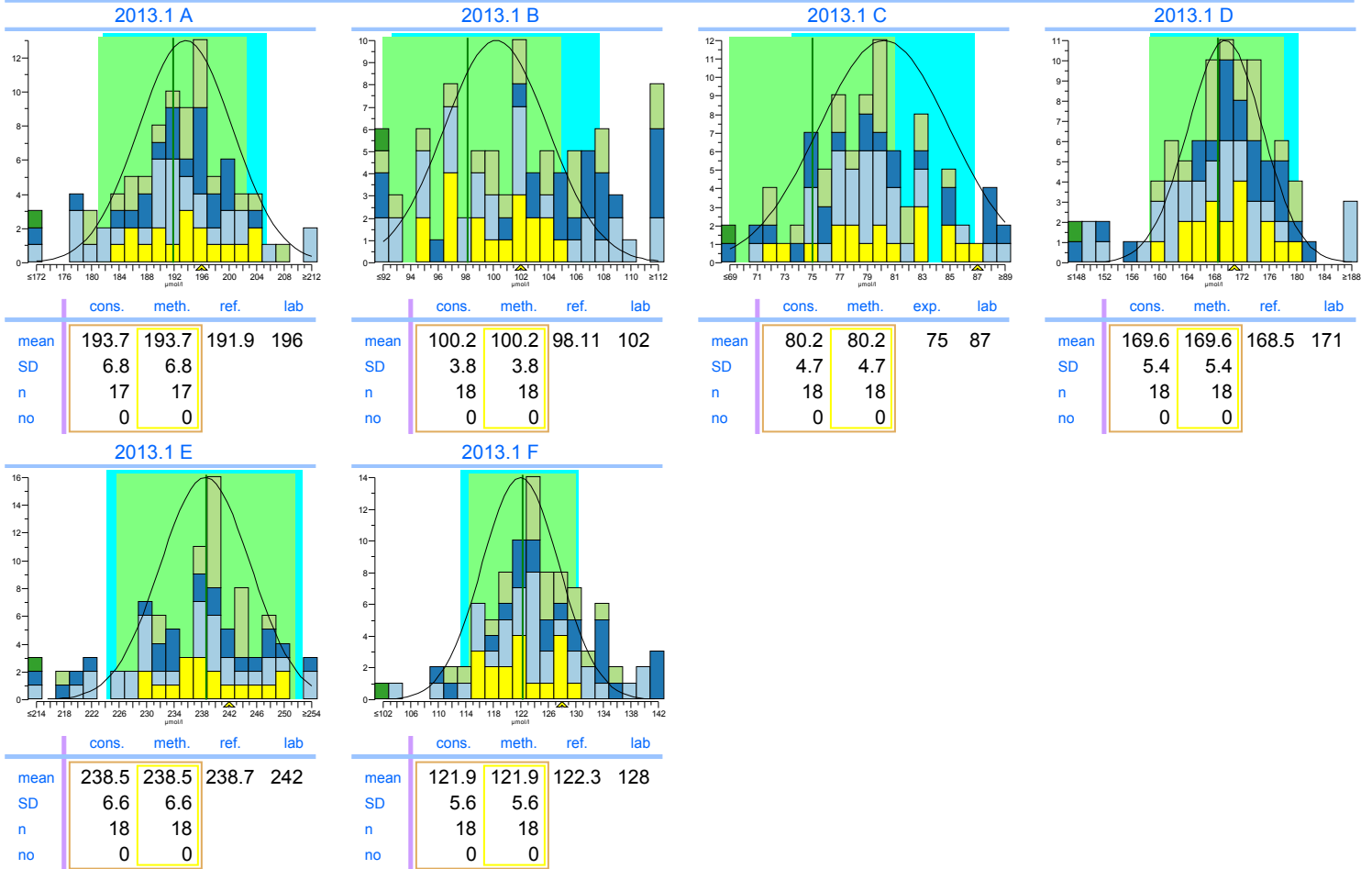
Creatinine

units: $\mu\text{mol/l}$



	2013.1	cumulative
Trueness	+3.5%	+3.5%
Precision	1.4%	1.4%
Number	6	6
Outliers	0	0
Sigma-TE	2.2	2.2
Sigma-SA	2.6	2.6
Score pictogram		
Regression line	$10.9 + 0.962.x$	$10.9 + 0.962.x$

Consensus group: Enzymatische kreatinine
Method: Enzymatic, automatic

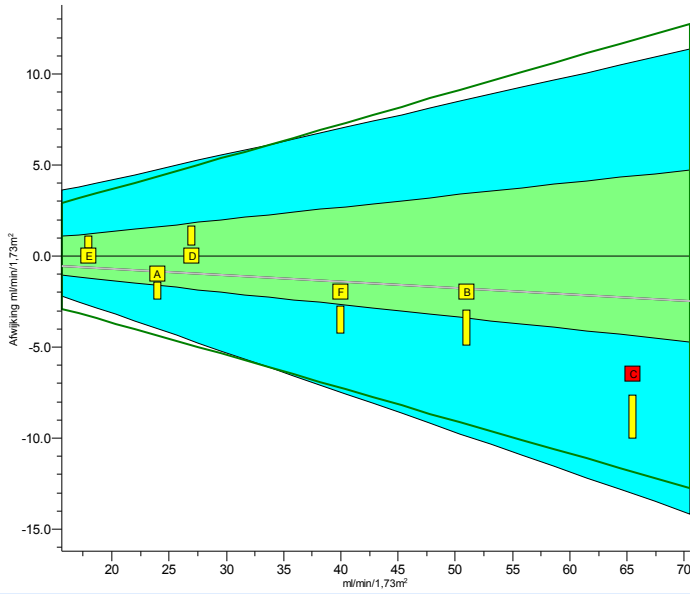


Legend: Enzymatic, automatic; Alk. Picrate, kinetic with compensation; Alk. Picrate, kinetic; Alk. Picrate, endpoint; Other methods

INPUTS 2013.1

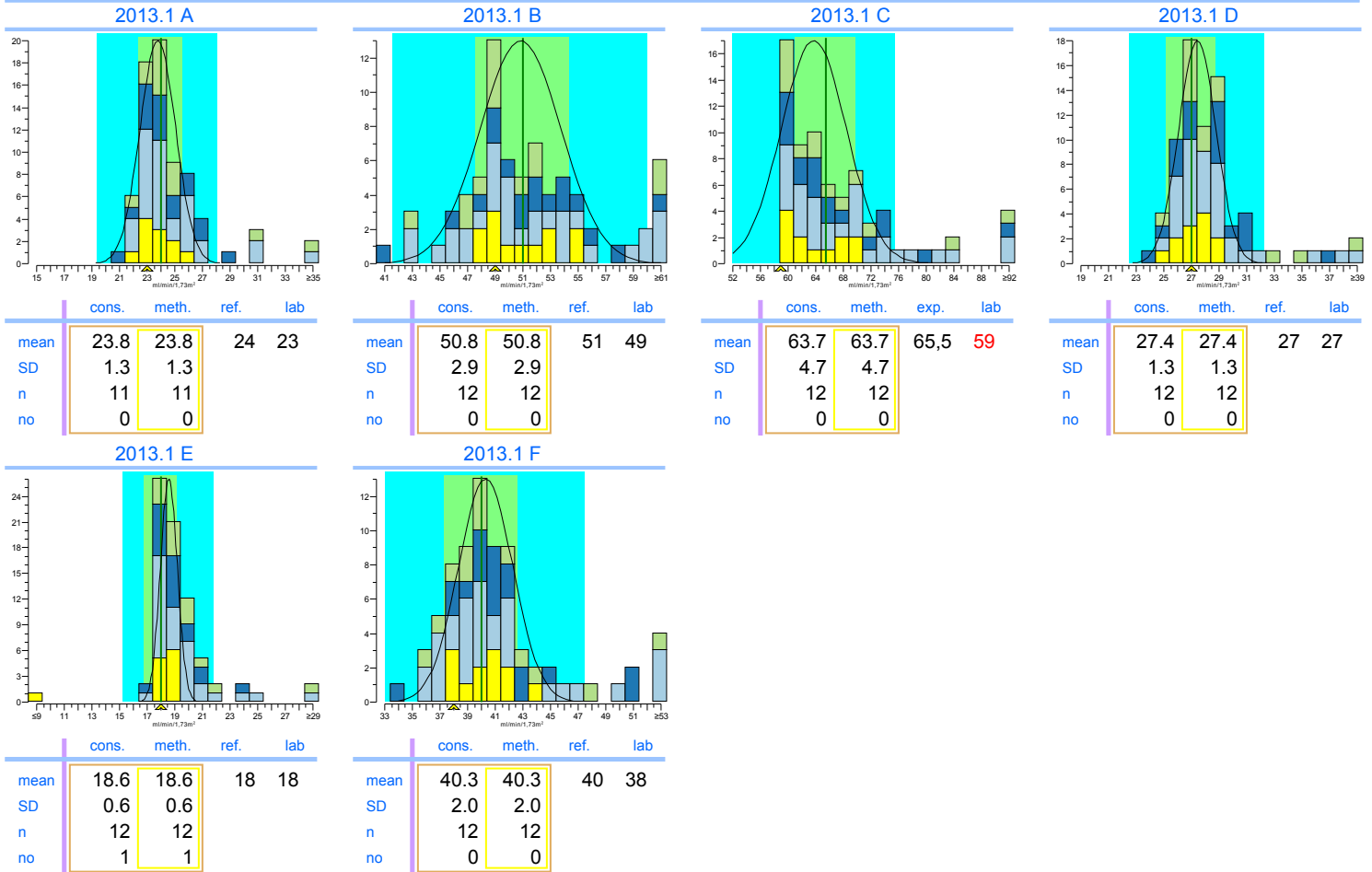
eGFR (F, 55, white)

units: ml/min/1,73m²



	2013.1	cumulative
Trueness	-3.1%	-3.1%
Precision	1.6%	1.6%
Number	6	6
Outliers	1	1
Sigma-TE	2.6	2.6
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0.0 + 0.965 \cdot x$	$0.0 + 0.965 \cdot x$

Consensus group: Enzymatische kreatinine
Method: Enzymatic, automatic



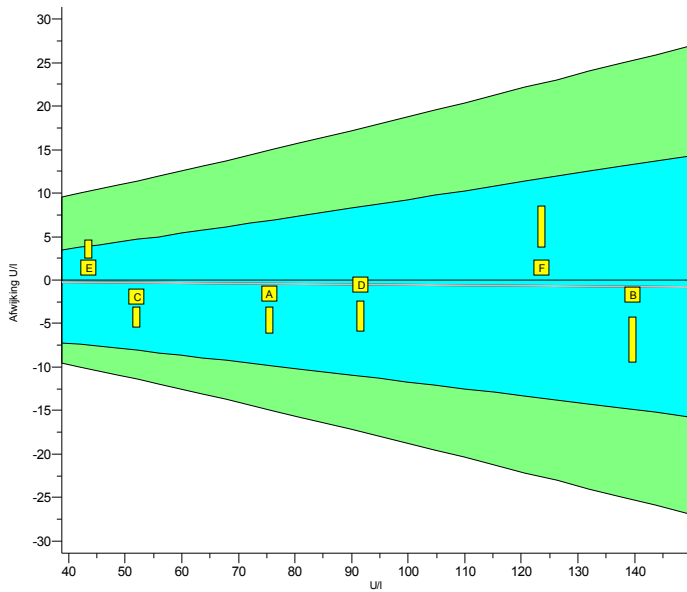
Legend

- Enzymatic, automatic
- Other methods
- Alk. Picrate, kinetic with compensation
- Alk. Picrate, kinetic

INPUTS 2013.1

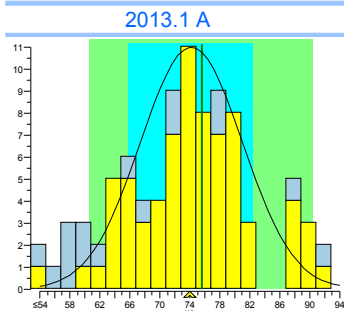
Gamma-GT

units: U/I

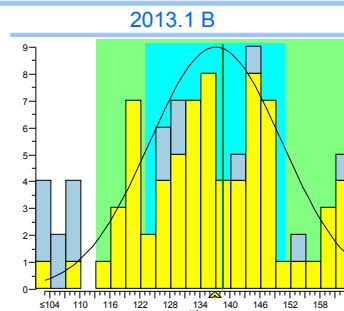


	2013.1	cumulative
Trueness	-0.59%	-0.59%
Precision	1.8%	1.8%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0.0 + 0.995.x$	$0.0 + 0.995.x$

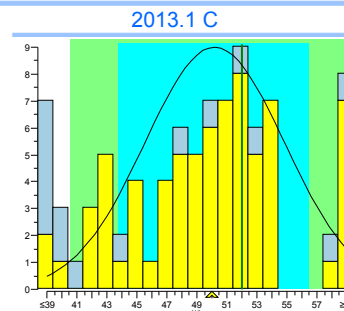
Consensus group IFCC traceerbaar
Method IFCC traceable



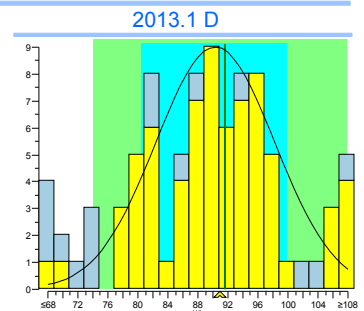
	cons.	meth.	ref.	lab
mean	74.2	74.2	75.6	74
SD	6.8	6.8		
n	72	72		
no	1	1		



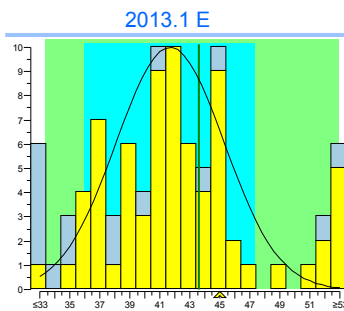
	cons.	meth.	ref.	lab
mean	138.2	138.2	139.7	138
SD	13.3	13.3		
n	72	72		
no	1	1		



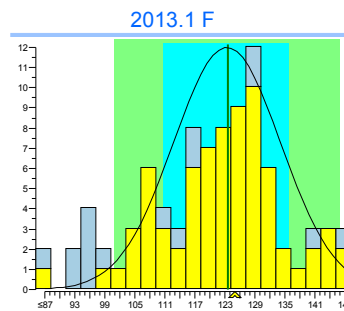
	cons.	meth.	exp.	lab
mean	50.2	50.2	52	50
SD	4.6	4.6		
n	72	72		
no	2	2		



	cons.	meth.	ref.	lab
mean	90.3	90.3	91.6	91
SD	7.9	7.9		
n	71	71		
no	1	1		



	cons.	meth.	ref.	lab
mean	41.7	41.7	43.6	45
SD	3.6	3.6		
n	73	73		
no	6	6		



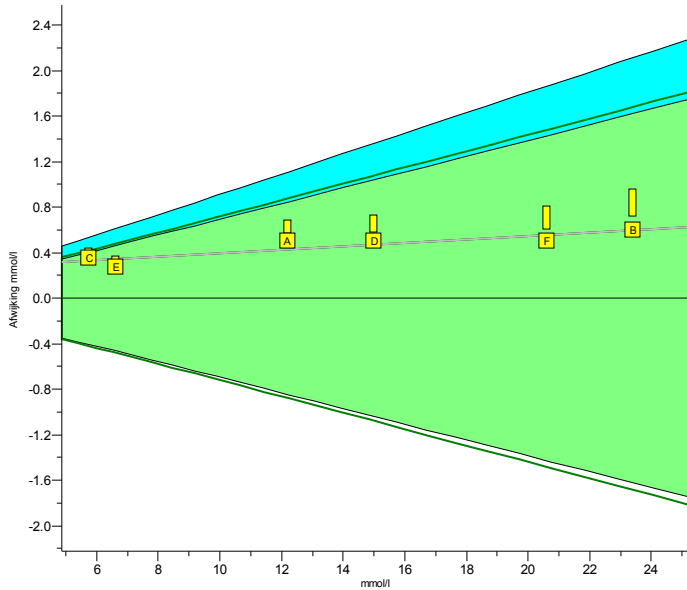
	cons.	meth.	ref.	lab
mean	123.4	123.4	123.6	125
SD	10.7	10.7		
n	73	73		
no	1	1		

Legend
 IFCC traceable
 IFCC non-traceable

INPUTS 2013.1

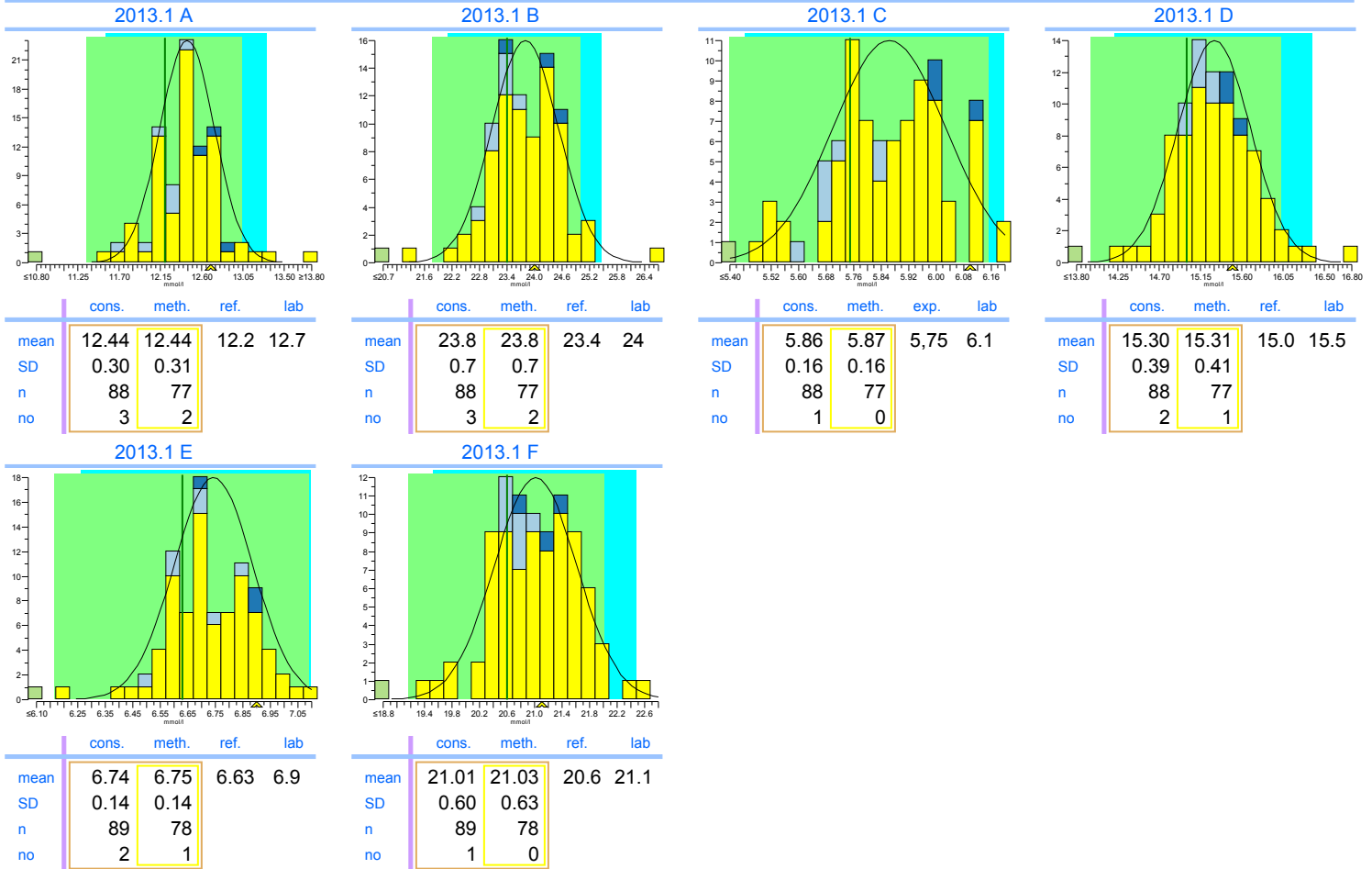
Glucose

units: mmol/l



	2013.1	cumulative
Trueness	+3.3%	+3.3%
Precision	0.41%	0.41%
Number	6	6
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	<u>0.25 + 1.015.x</u>	<u>0.25 + 1.015.x</u>

Consensus group Natte chemie
Method Hexokinase, automatic



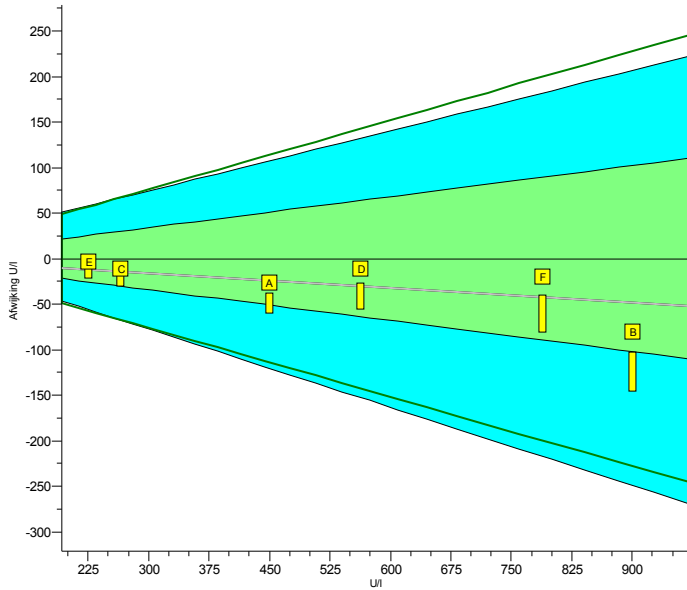
Legend

- Hexokinase, automatic
- Glucose-oxidase, amperometric, H2O2
- Glucose-oxidase/POD, automatic
- Other methods

INPUTS 2013.1

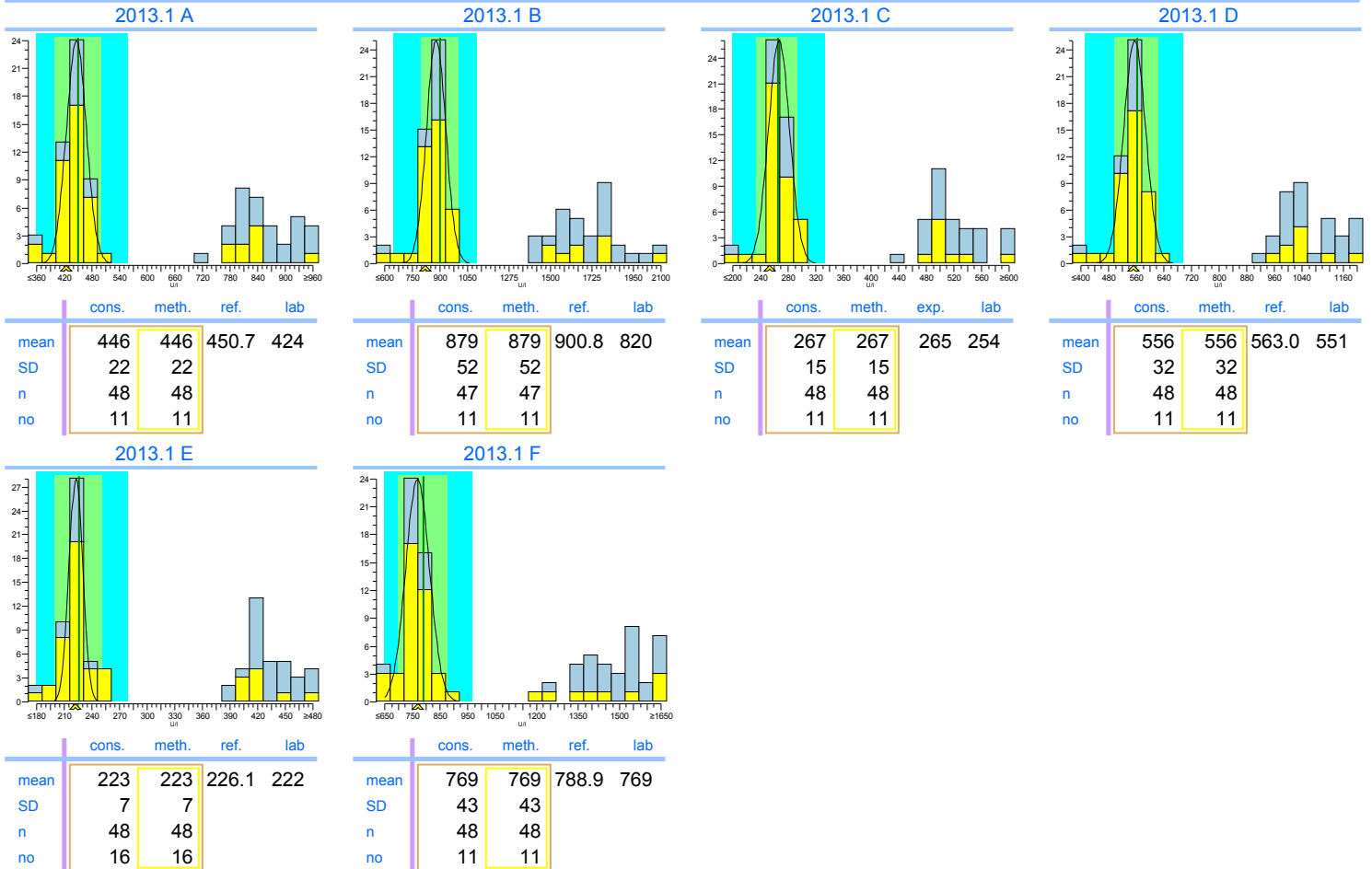
LD

units: U/I



	2013.1	cumulative
Trueness	-4.8%	-4.8%
Precision	3.7%	3.7%
Number	6	6
Outliers	0	0
Sigma-TE	4.1	4.1
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$0 + 0.946.x$	$0 + 0.946.x$

Consensus group IFCC traceerbaar
Method IFCC traceable

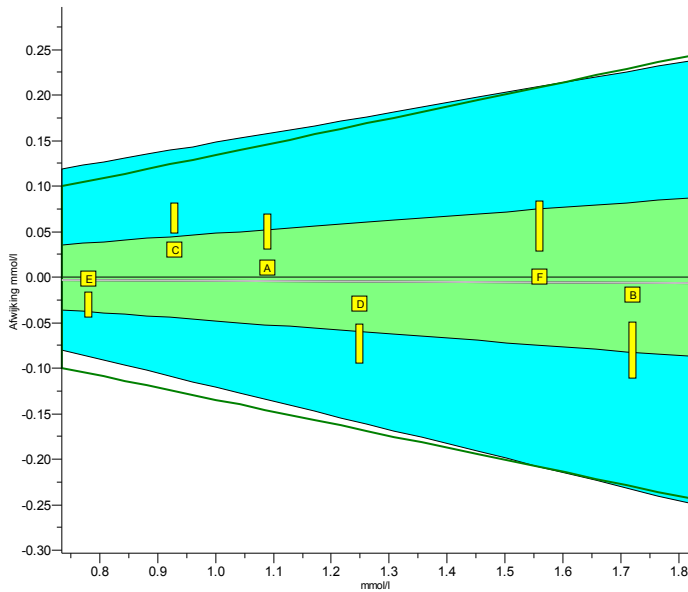



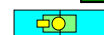
Legend
 IFCC traceable IFCC non-traceable

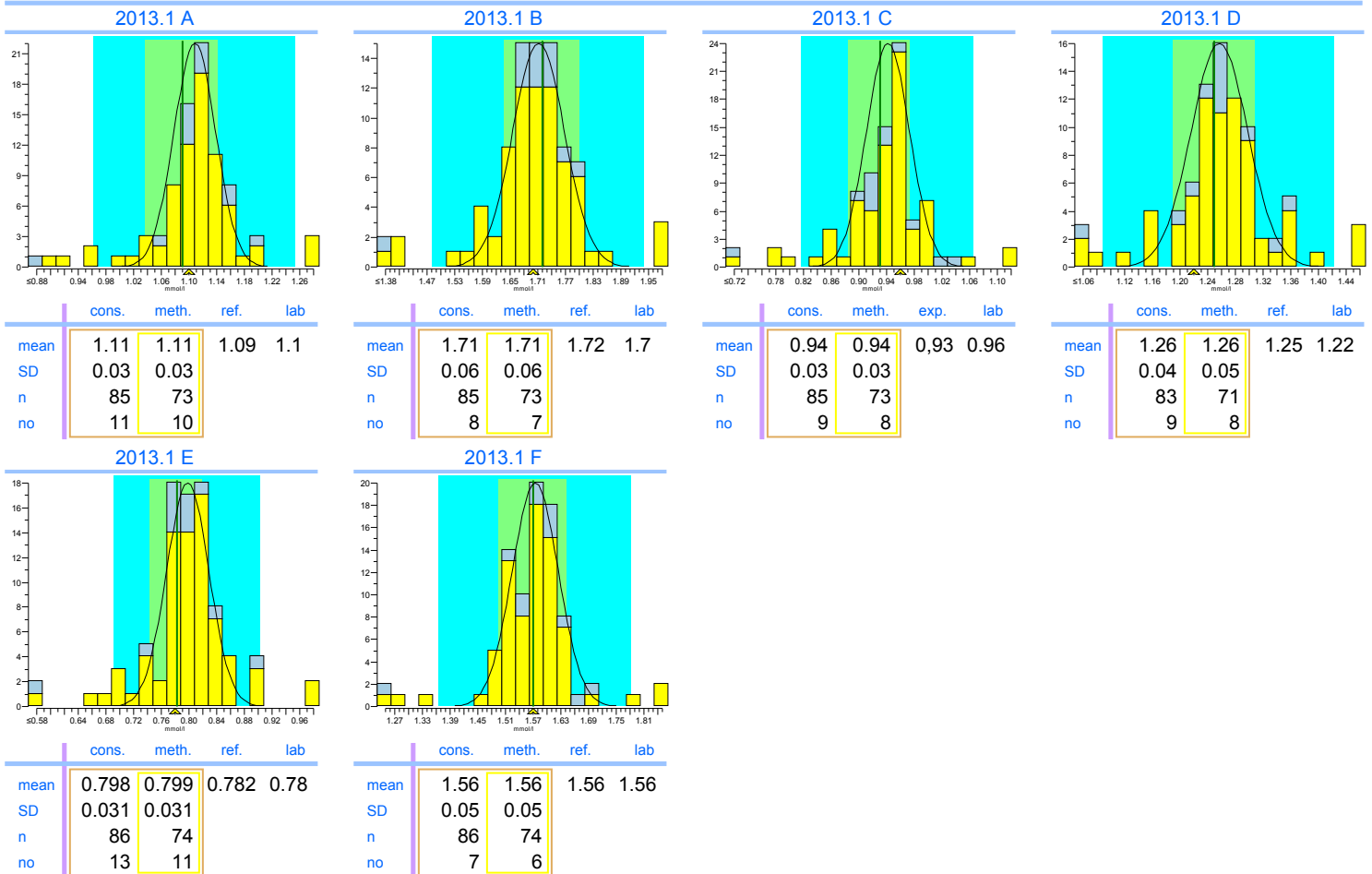
INPUTS 2013.1

Magnesium

units: mmol/l



	2013.1	cumulative
Trueness	-0.16%	-0.16%
Precision	1.4%	1.4%
Number	6	6
Outliers	0	0
Sigma-TE	3.2	3.2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0.00 + 0.996 \cdot x$	$0.00 + 0.996 \cdot x$
Consensus group	Overall	
Method	Colorimetric	



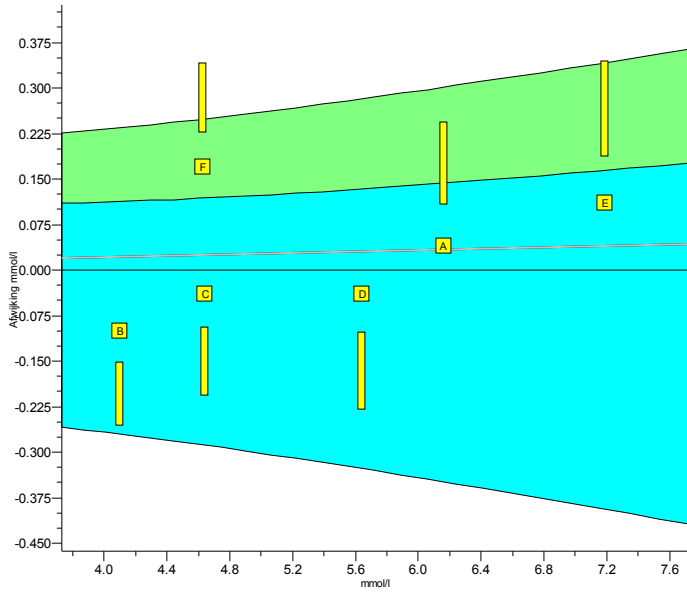
Legend



INPUTS 2013.1

Potassium

units: mmol/l



	2013.1	cumulative
Trueness	+0.43%	+0.43%
Precision	1.9%	1.9%
Number	6	6
Outliers	0	0
Sigma-TE	4.6 2	4.6 2
Sigma-SA	3.6	3.6
Score pictogram		
Regression line	<u>0.00 + 1.006.x</u>	<u>0.00 + 1.006.x</u>

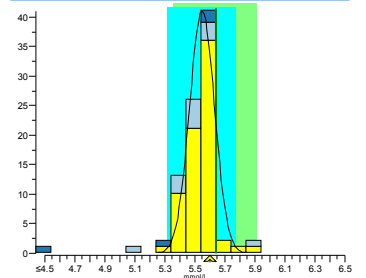
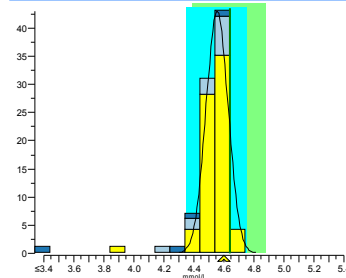
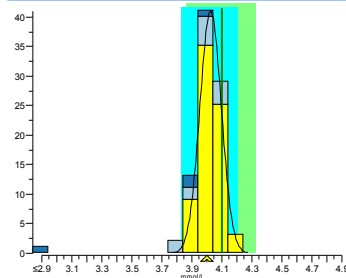
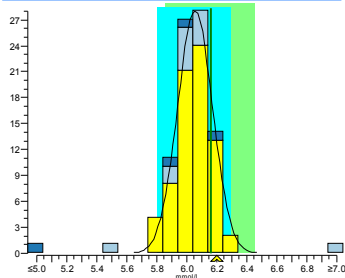
Consensus group ISE verdund/Vlamfotometrie
Method ISE indirect (with predilution)

2013.1 A

2013.1 B

2013.1 C

2013.1 D



	cons.	meth.	ref.	lab
mean	6.05	6.05	6.16	6.2
SD	0.12	0.12		
n	72	72		
no	0	0		

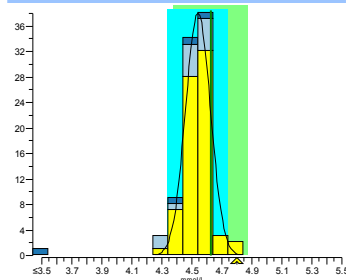
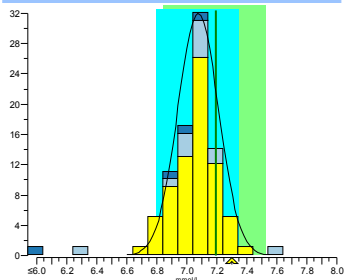
	cons.	meth.	ref.	lab
mean	4.02	4.02	4.10	4
SD	0.07	0.07		
n	72	72		
no	0	0		

	cons.	meth.	exp.	lab
mean	4.55	4.55	4.64	4.6
SD	0.07	0.07		
n	72	72		
no	1	1		

	cons.	meth.	ref.	lab
mean	5.55	5.55	5.64	5.6
SD	0.08	0.08		
n	72	72		
no	2	2		

2013.1 E

2013.1 F



	cons.	meth.	ref.	lab
mean	7.08	7.08	7.19	7.3
SD	0.14	0.14		
n	72	72		
no	0	0		

	cons.	meth.	ref.	lab
mean	4.54	4.54	4.63	4.8
SD	0.08	0.08		
n	73	73		
no	2	2		

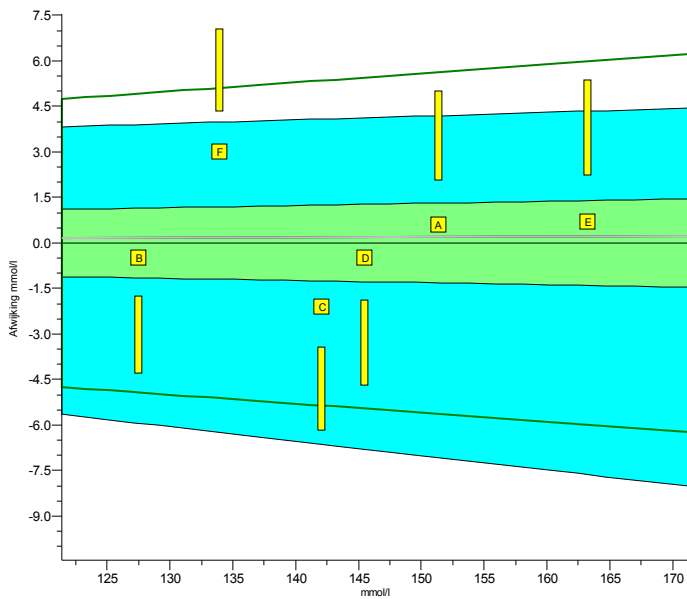
Legend

- ISE indirect (with predilution)
- ISE direct (no predilution)
- Other methods

INPUTS 2013.1

Sodium

units: mmol/l



	2013.1	cumulative
Trueness	+0.14%	+0.14%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	0.8	0.8
Sigma-SA	4.5 1	4.5 1
Score pictogram		
Regression line	$0.0 + 1.001 \cdot x$	$0.0 + 1.001 \cdot x$

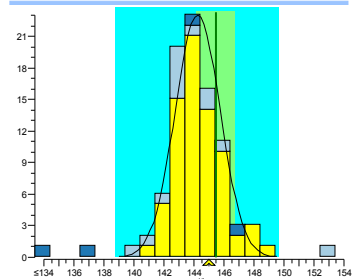
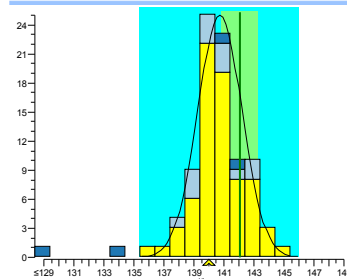
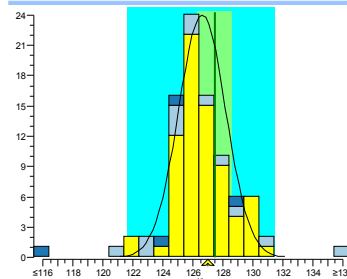
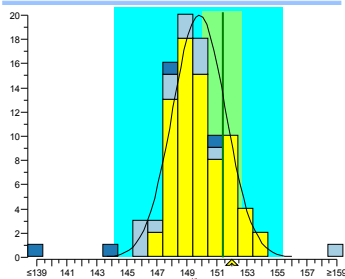
Consensus group ISE verdund/Vlamfotometrie
Method ISE indirect (with predilution)

2013.1 A

2013.1 B

2013.1 C

2013.1 D



	cons.	meth.	ref.	lab
mean	149.8	149.8	151.4	152
SD	1.8	1.8		
n	72	72		
no	0	0		

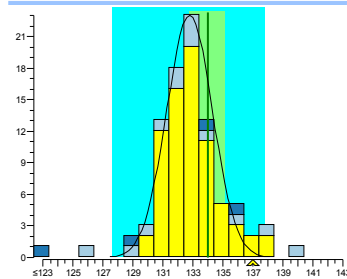
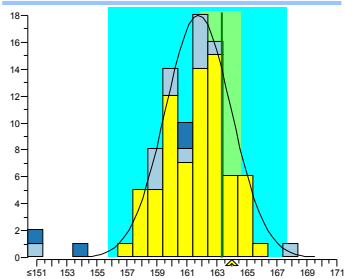
	cons.	meth.	ref.	lab
mean	126.6	126.6	127.5	127
SD	1.6	1.6		
n	72	72		
no	0	0		

	cons.	meth.	exp.	lab
mean	140.7	140.7	142.1	140
SD	1.5	1.5		
n	72	72		
no	1	1		

	cons.	meth.	ref.	lab
mean	144.3	144.3	145.5	145
SD	1.5	1.5		
n	72	72		
no	1	1		

2013.1 E

2013.1 F



	cons.	meth.	ref.	lab
mean	161.8	161.8	163.3	164
SD	2.2	2.2		
n	72	72		
no	0	0		

	cons.	meth.	ref.	lab
mean	132.8	132.8	134.0	137
SD	1.5	1.5		
n	73	73		
no	2	2		

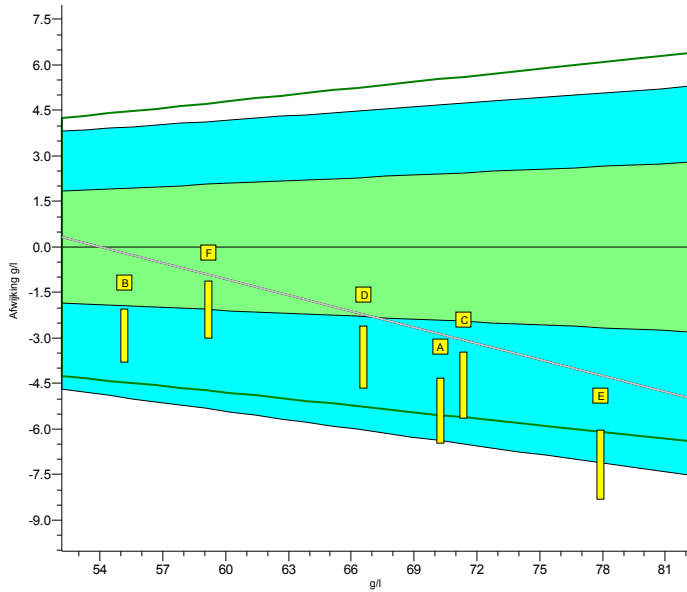
Legend

- ISE indirect (with predilution)
- ISE direct (no predilution)
- Other methods

INPUTS 2013.1

Total Protein

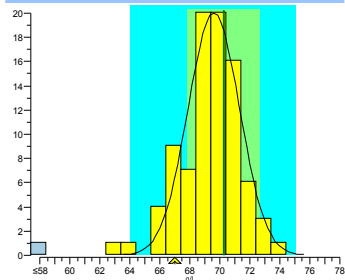
units: g/l



	2013.1	cumulative
Trueness	-3.4%	-3.4%
Precision	1.3%	1.3%
Number	6	6
Outliers	0	0
Sigma-TE	1.0	1.0
Sigma-SA	4.5	4.5
Score pictogram		
Regression line	$9.5 + 0.823.x$	$9.5 + 0.823.x$

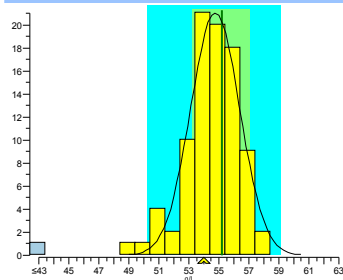
Consensus group: Biureet
Method: Biurete, automatic

2013.1 A



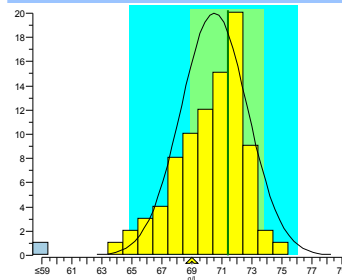
	cons.	meth.	ref.	lab
mean	69.6	69.6	70.3	67
SD	1.7	1.7		
n	88	88		
no	2	2		

2013.1 B



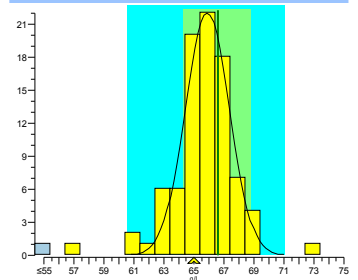
	cons.	meth.	ref.	lab
mean	54.8	54.8	55.2	54
SD	1.6	1.6		
n	88	88		
no	1	1		

2013.1 C



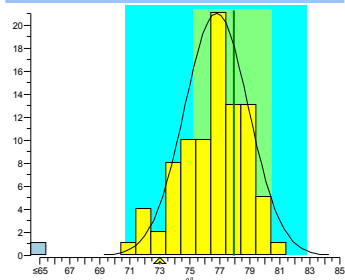
	cons.	meth.	exp.	lab
mean	70.5	70.5	71.4	69
SD	2.2	2.2		
n	87	87		
no	0	0		

2013.1 D



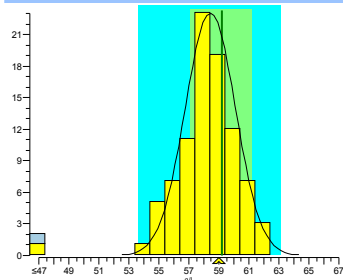
	cons.	meth.	ref.	lab
mean	65.9	65.9	66.6	65
SD	1.5	1.5		
n	88	88		
no	4	4		

2013.1 E



	cons.	meth.	ref.	lab
mean	76.8	76.8	77.9	73
SD	2.1	2.1		
n	88	88		
no	0	0		

2013.1 F



	cons.	meth.	ref.	lab
mean	58.4	58.4	59.2	59
SD	1.7	1.7		
n	89	89		
no	1	1		

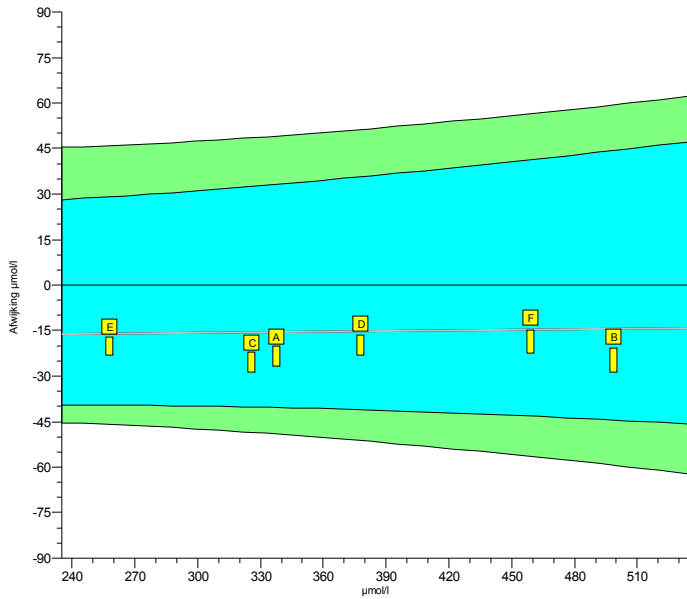
Legend

Biurete, automatic Other methods

INPUTS 2013.1

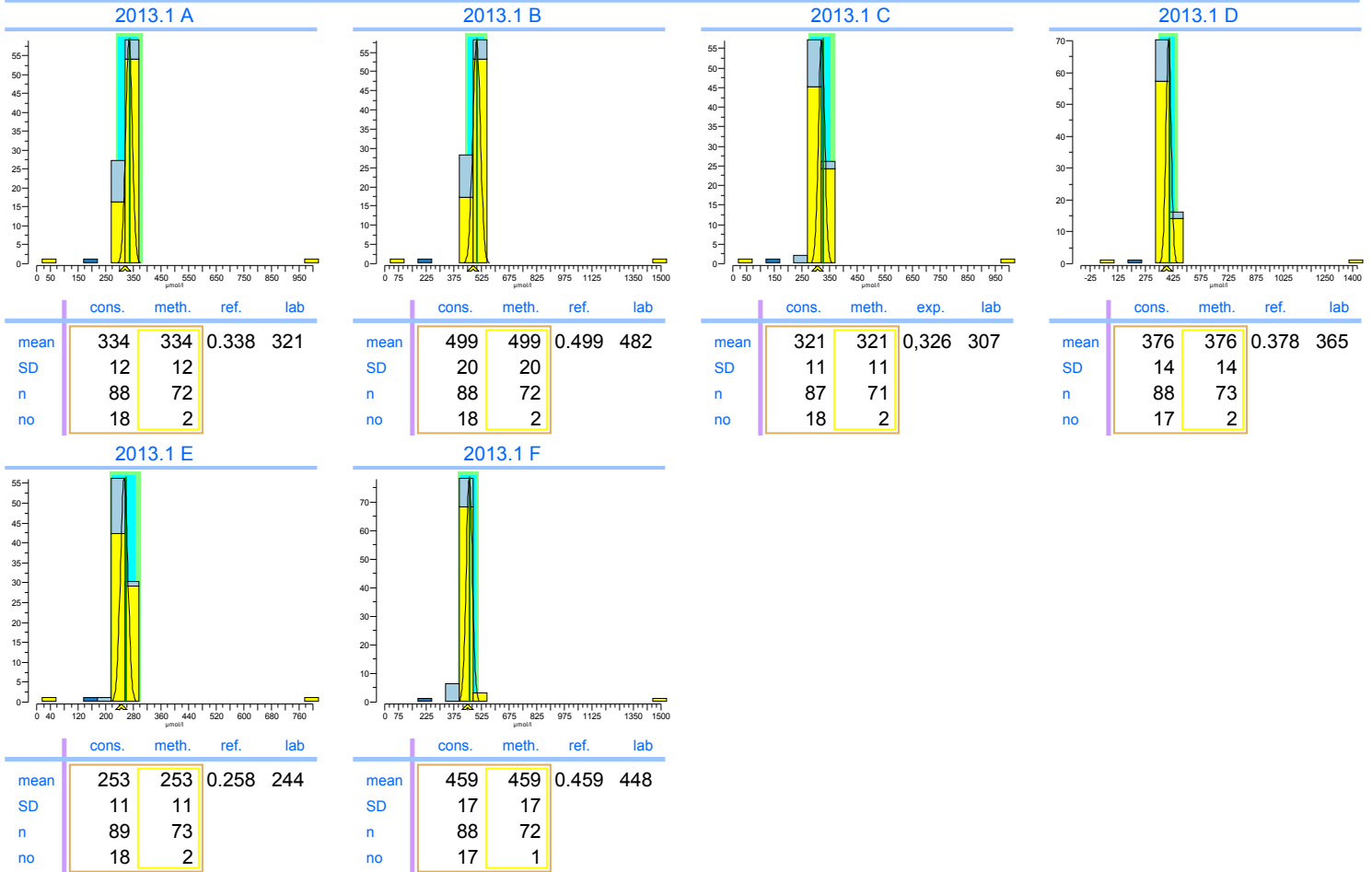
Urate

units: $\mu\text{mol/l}$



	2013.1	cumulative
Trueness	-4.0%	-4.0%
Precision	0.76%	0.76%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0 + 1.006 \cdot x$	$0 + 1.006 \cdot x$

Consensus group: Colorimetrisch
Method: Uricase, colorim., automatic



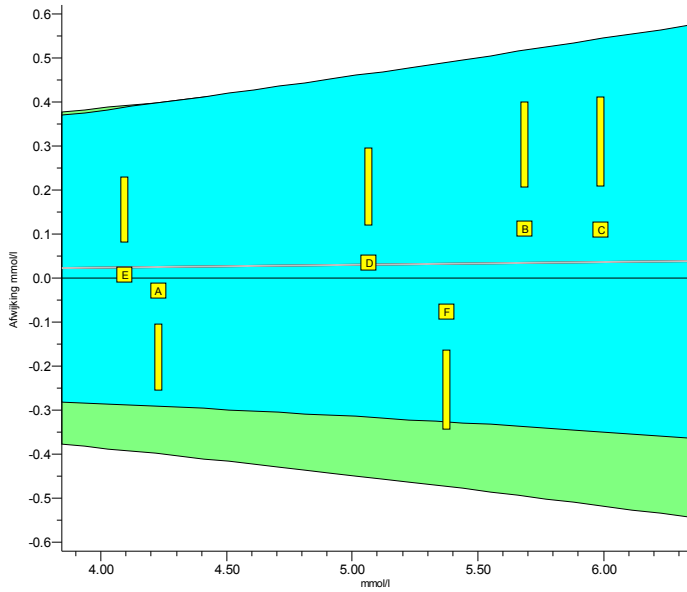
Legend

- Uricase, colorim., automatic
- Uricase, differential UV, automatic
- Overige methoden

INPUTS 2013.1

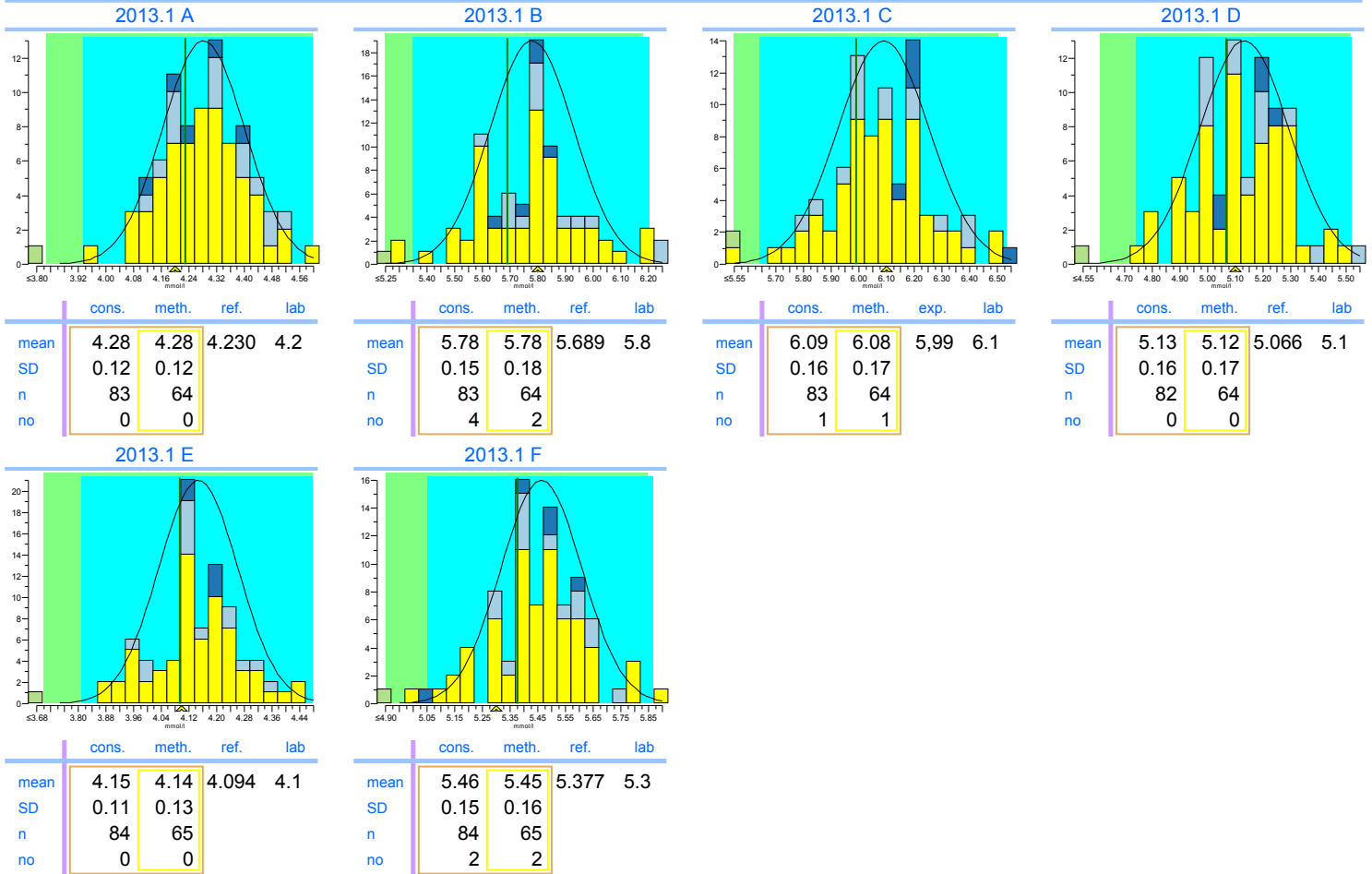
Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	+0.51%	+0.51%
Precision	1.4%	1.4%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	5.6	5.6
Score pictogram		
Regression line	$0.00 + 1.006 \cdot x$	$0.00 + 1.006 \cdot x$

Consensus group	Enzymatisch
Method	Enzymatic, automatic, discrete



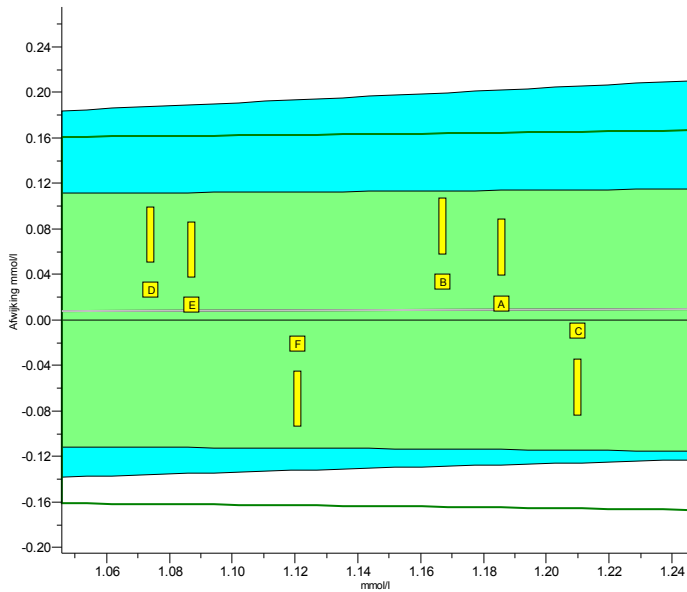
Legend

- Enzymatic, automatic, discrete
- Enzymatic, automatic, kinetic
- Abell-Kendall reference values
- Overige methoden

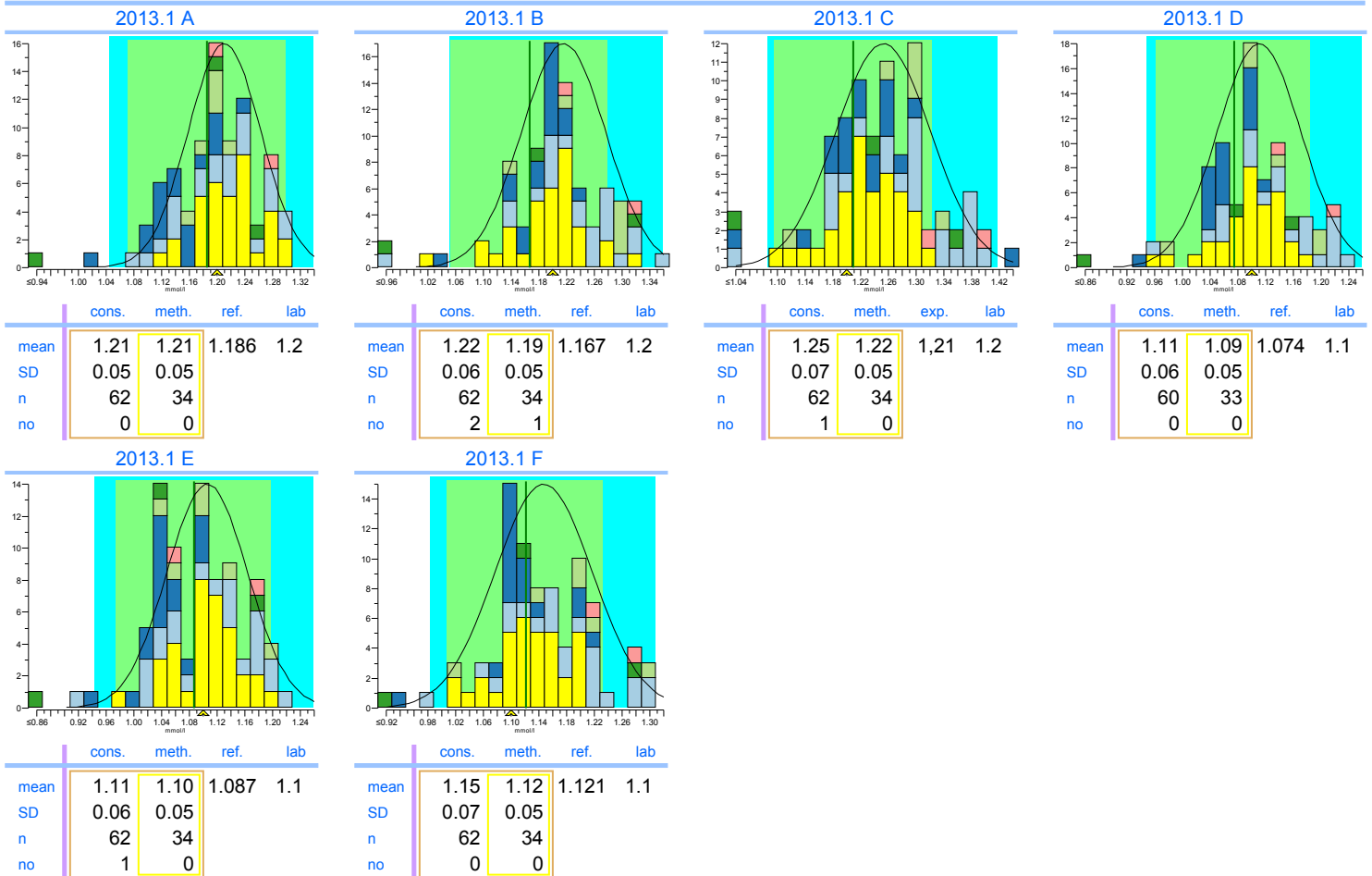
INPUTS 2013.1

HDL-Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	+0.80%	+0.80%
Precision	1.7%	1.7%
Number	6	6
Outliers	0	0
Sigma-TE	5.5	5.5
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	<u>0.00 + 1.008.x</u>	<u>0.00 + 1.008.x</u>
Consensus group	Direct	
Method	PEG modified enzyme, PEGME (Kyowa Medex)	



Legend

- PEG modified enzyme, PEGME (Kyowa Medex)
- Accelerator Selective Detergent (=Ultra HDL[®])
- Immunoinhibition
- Catalase method (Denka Seiken)
- Overige methoden
- Precipitation Technique