



3712 K. Hayden
 Manchester Royal Infirmary
 Manchester

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	36	38	



MUSE

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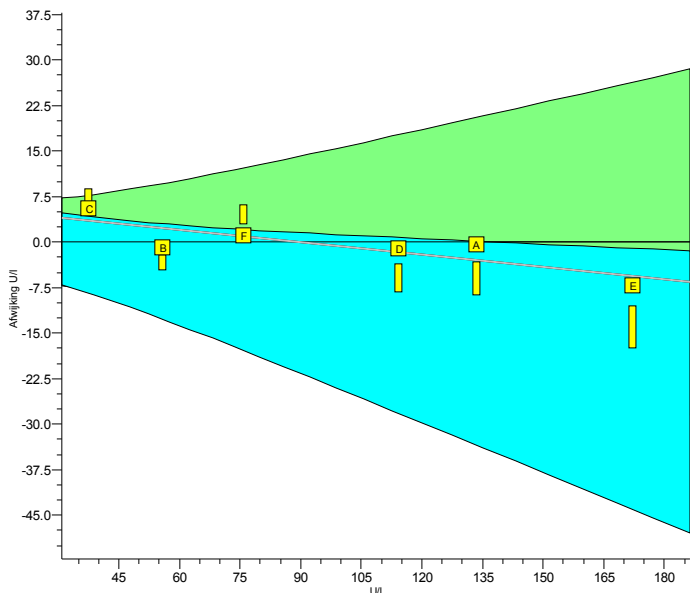
INPUTS 2013.1

Analyte		Trueness				Precision		Performance			
		your mean	ref.	cons.	SDI	your prec.	SDbl	this survey	PS	cumulative PSc	
ALAT	U/l	97.7	98.2	86.9	10.1	3.0	2.7		2		2
Alk. Phosphatase	U/l	167	188	173	15	2	2		2		2
Amylase	U/l	204	207	201	8	2	2		2		2
ASAT	U/l	78.2	78.6	71.5	6.8	2.1	1.6		2		2
Calcium	mmol/l	2.46	2.46	2.47	0.07	0.02	0.02		2		2
Chloride	mmol/l	99.6	100.0	100.7	1.8	1.3	0.9		2		2
CK	U/l	243	244	253	18	5	3		2		2
Creatinine	µmol/l	155.2	149.1	150.7	5.6	2.0	2.1		1		1
eGFR (F, 55, white)	ml/min/1,73m ²	36.3	37.6	37.4	2.6	1.1	0.6		2		2
Gamma-GT	U/l	84.2	87.7	86.3	8.6	1.1	1.2		2		2
Glucose	mmol/l	14.10	13.93	14.19	0.44	0.33	0.18		1		1
LD	U/l	510	532	523	33	6	9		2		2
Magnesium	mmol/l	1.24	1.22	1.23	0.04	0.01	0.02		2		2
Potassium	mmol/l	5.30	5.39	5.23	0.10	0.05	0.05		2		2
Sodium	mmol/l	142.2	144.0	141.3	1.7	0.7	0.8		2		2
Total Protein	g/l	65.0	66.8	66.0	1.8	0.9	0.7		2		2
Urate	mmol/l	0.368	0.376	0.374	0.015	0.002	0.004		2		2
Cholesterol	mmol/l	5.07	5.07	5.15	0.14	0.09	0.05		2		2
HDL-Cholesterol	mmol/l	1.24	1.14	1.17	0.06	0.02	0.03		2		2
Total :									36		36

INPUTS 2013.1

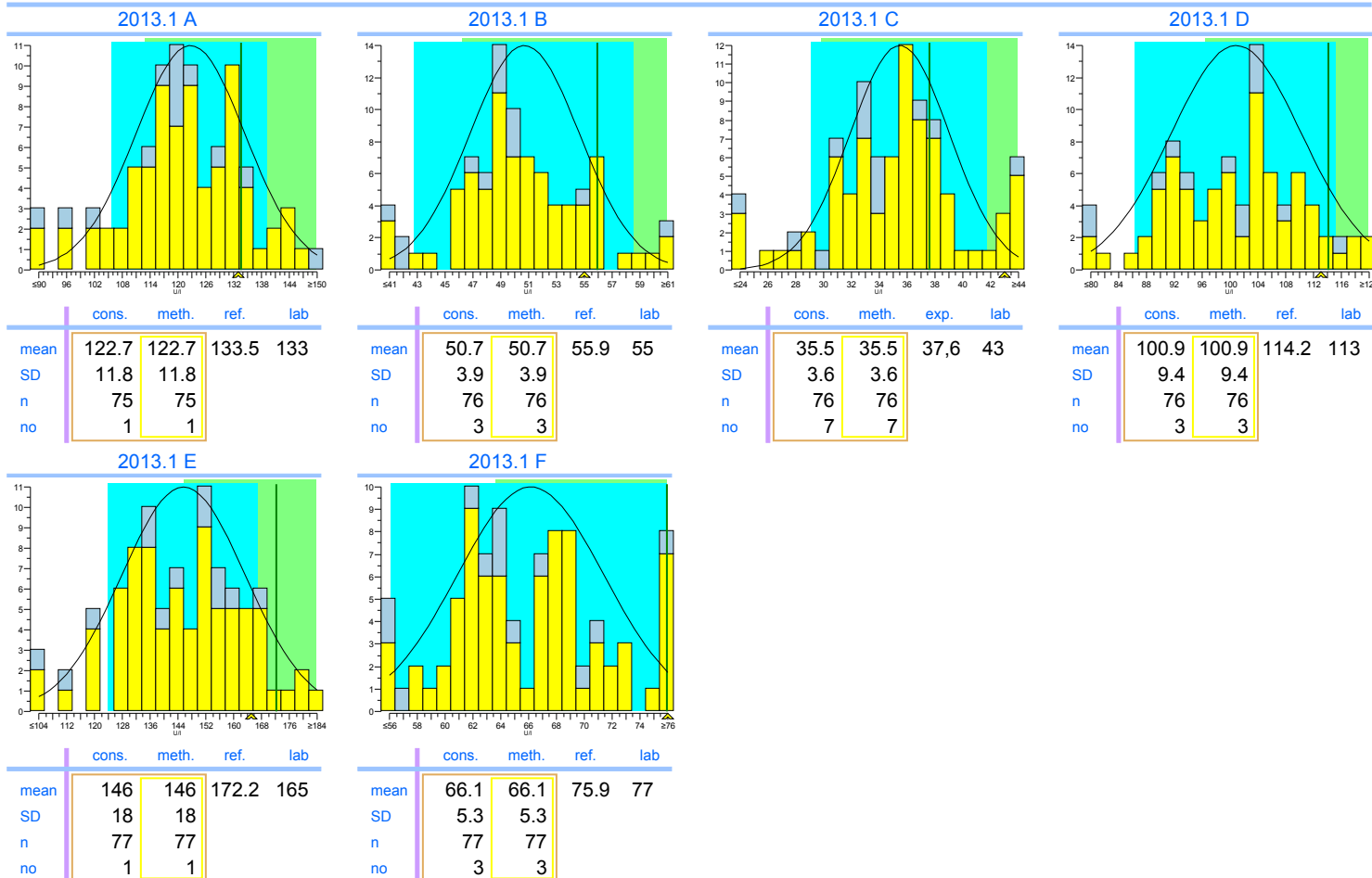
ALAT

units: U/I



	2013.1	cumulative
Trueness	-0.56%	-0.56%
Precision	3.5%	3.5%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$6.2 + 0.932 \cdot x$	$6.2 + 0.932 \cdot x$

Consensus group IFCC traceerbaar
Method IFCC traceable



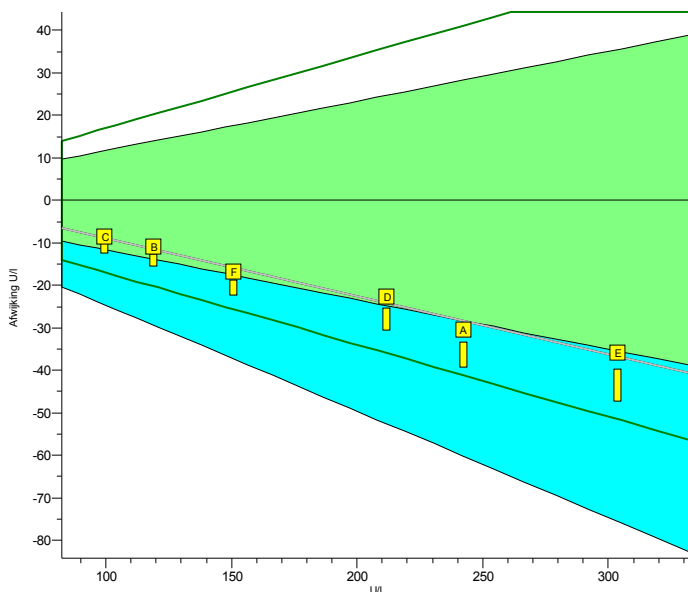
Legend

IFCC traceable IFCC non-traceable

INPUTS 2013.1

Alk. Phosphatase

units: U/l



	2013.1	cumulative
Trueness	-11%	-11%
Precision	1.1%	1.1%
Number	6	6
Outliers	0	0
Sigma-TE	1.6	1.6
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$5 + 0.864 \cdot x$	$5 + 0.864 \cdot x$

Consensus group	IFCC traceerbaar
Method	IFCC traceable

2013.1 A

	cons.	meth.	ref.	lab
mean	224	224	242.5	212
SD	19	19		
n	77	77		
no	5	5		

2013.1 B

	cons.	meth.	ref.	lab
mean	110	110	119.1	108
SD	9	9		
n	77	77		
no	5	5		

2013.1 C

	cons.	meth.	exp.	lab
mean	92	92	99,7	91
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	268
SD	25	25		
n	78	78		
no	3	3		

2013.1 F

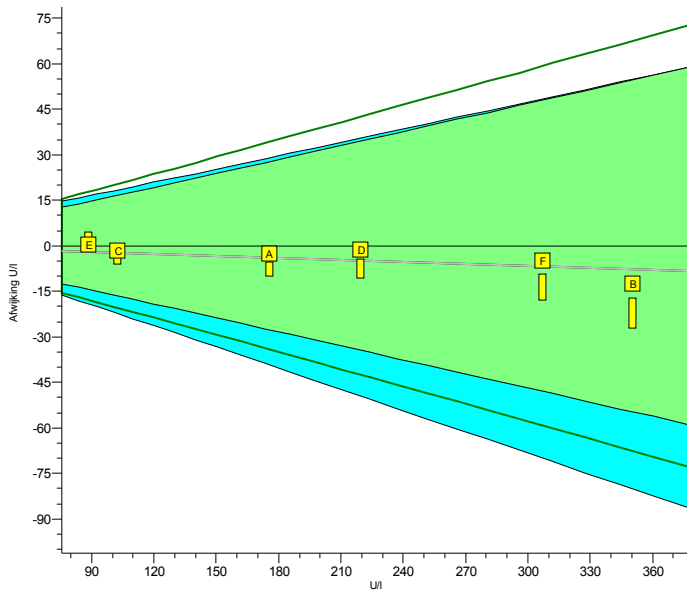
	cons.	meth.	ref.	lab
mean	139	139	150.9	134
SD	11	11		
n	78	78		
no	5	5		



Legend
 IFCC traceable
 IFCC non-traceable

INPUTS 2013.1

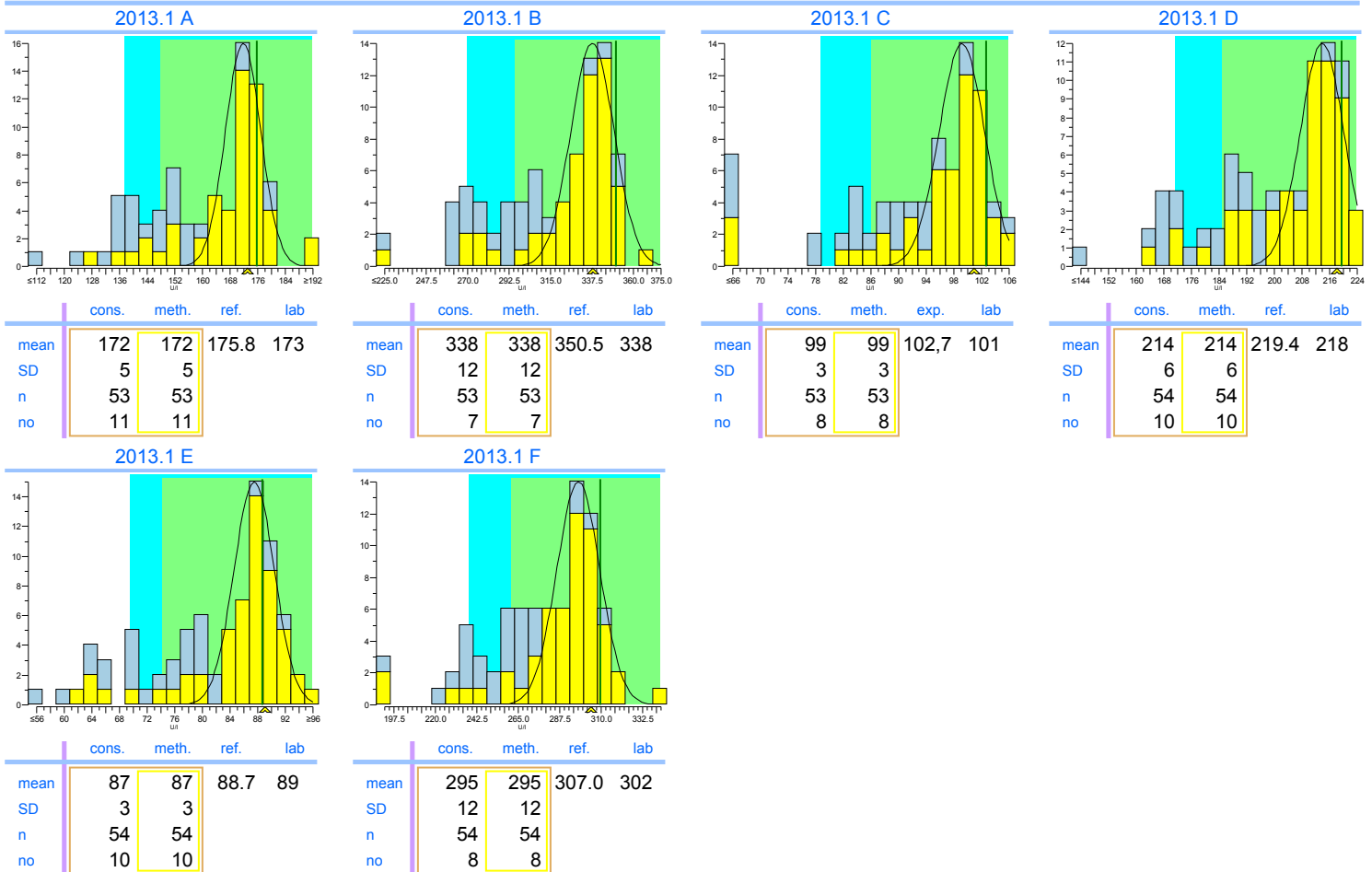
Amylase

units: U/l



	2013.1	cumulative
Trueness	-1.9%	-1.9%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$0 + 0.978.x$	$0 + 0.978.x$

Consensus group IFCC traceerbaar
Method IFCC traceable



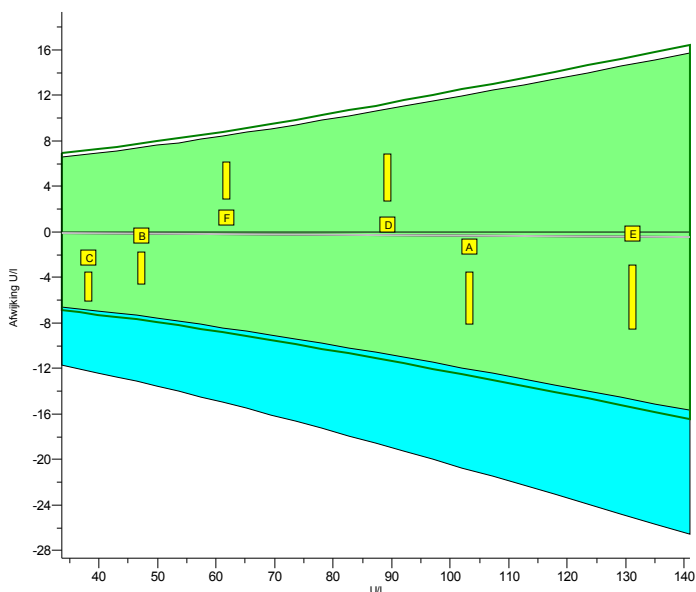
Legend

IFCC traceable IFCC non-traceable

INPUTS 2013.1

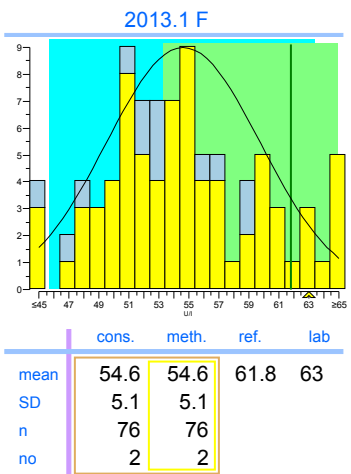
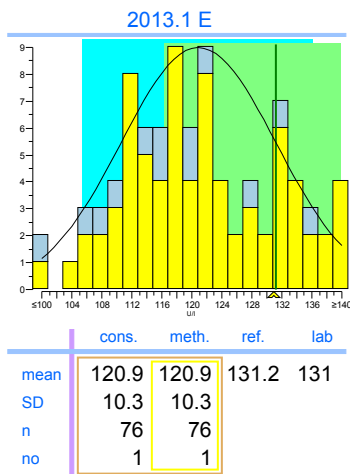
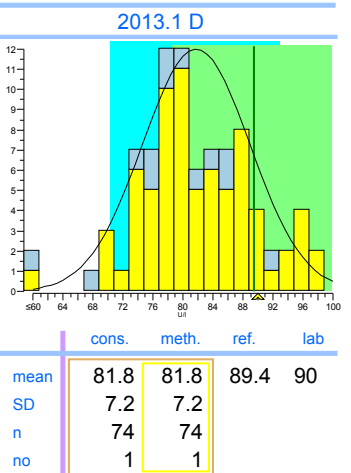
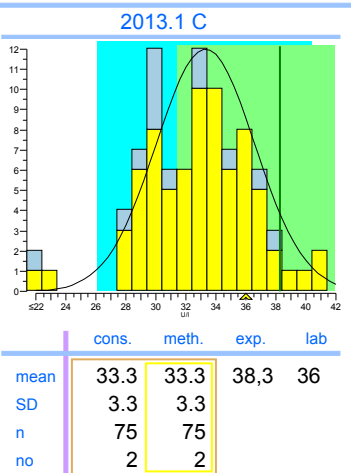
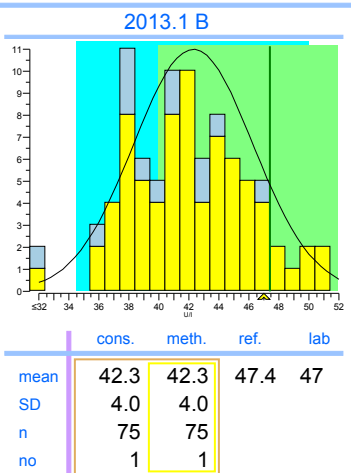
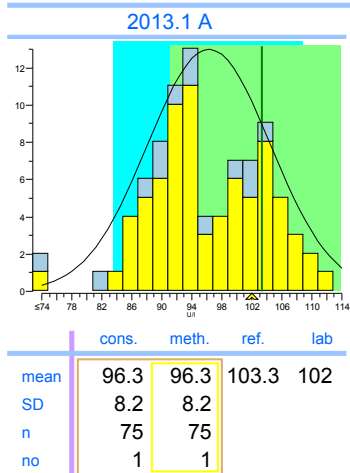
ASAT

units: U/I



	2013.1	cumulative
Trueness	-0.51%	-0.51%
Precision	3.0%	3.0%
Number	6	6
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0.0 + 0.997 \cdot x$	$0.0 + 0.997 \cdot x$

Consensus group IFCC traceerbaar
Method IFCC traceable



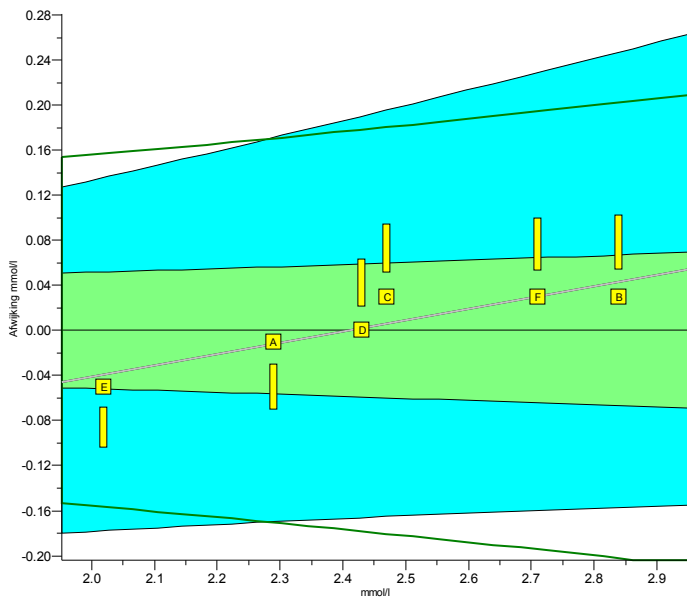
Legend

IFCC traceable IFCC non-traceable

INPUTS 2013.1

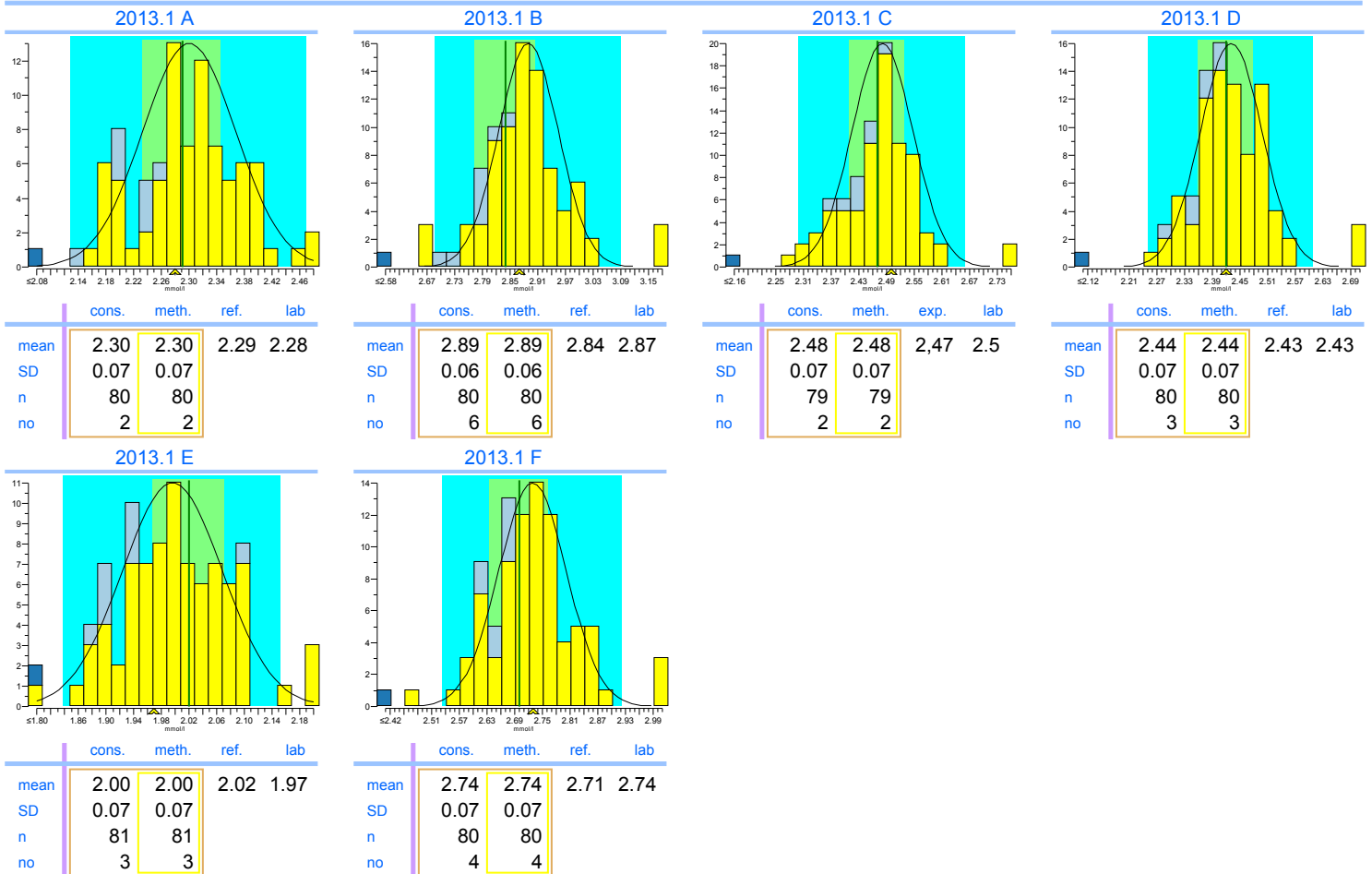
Calcium

units: mmol/l



	2013.1	cumulative
Trueness	+0.20%	+0.20%
Precision	0.70%	0.70%
Number	6	6
Outliers	0	0
Sigma-TE	2.8	2.8
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$-0.24 + 1.100 \cdot x$	$-0.24 + 1.100 \cdot x$

Consensus group	Colorimetrisch
Method	Colorimetric, automatic, discrete



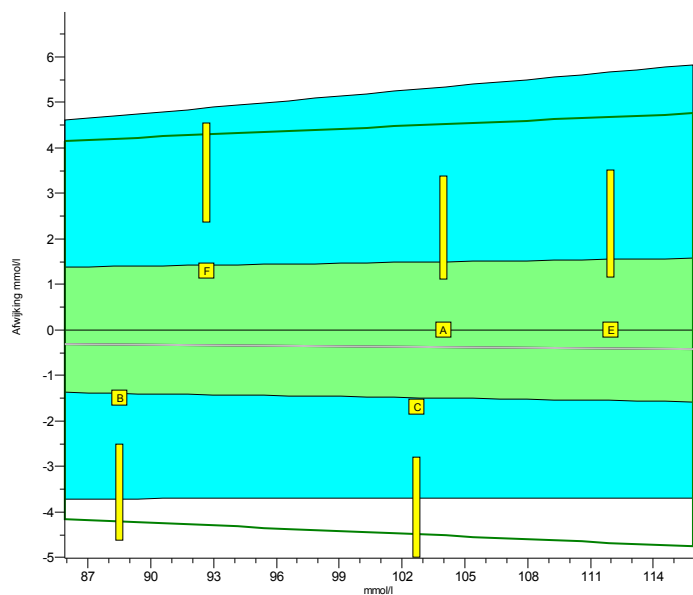
Legend

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

INPUTs 2013.1

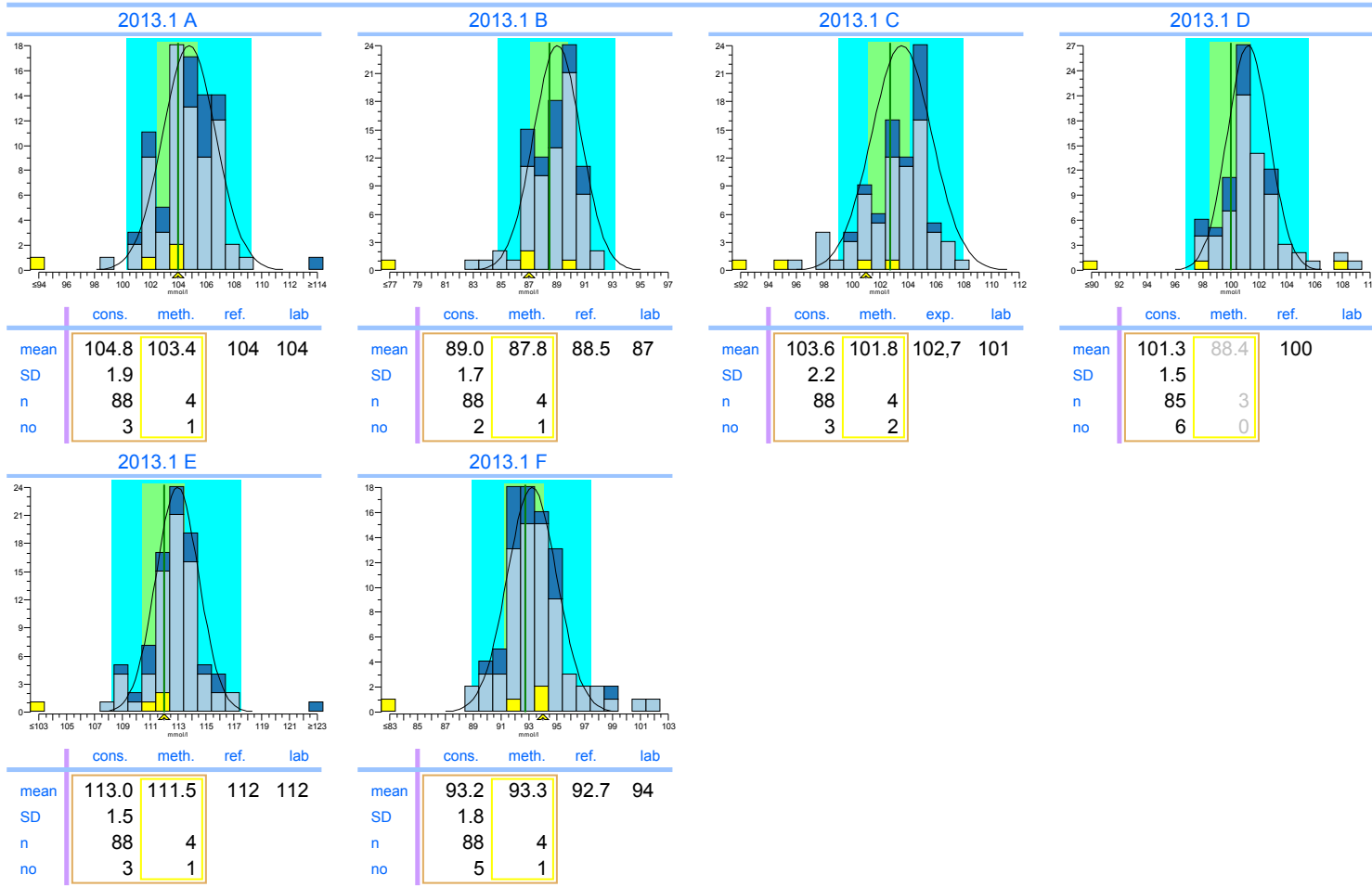
Chloride

units: mmol/l



	2013.1	cumulative
Trueness	-0.38%	-0.38%
Precision	1.3%	1.3%
Number	5	5
Outliers	0	0
Sigma-TE	1.4	1.4
Sigma-SA	4.7 2	4.7 2
Score pictogram		
Regression line	$0.0 + 0.996.x$	$0.0 + 0.996.x$

Consensus group	ISE/Colorimetrie
Method	Other methods



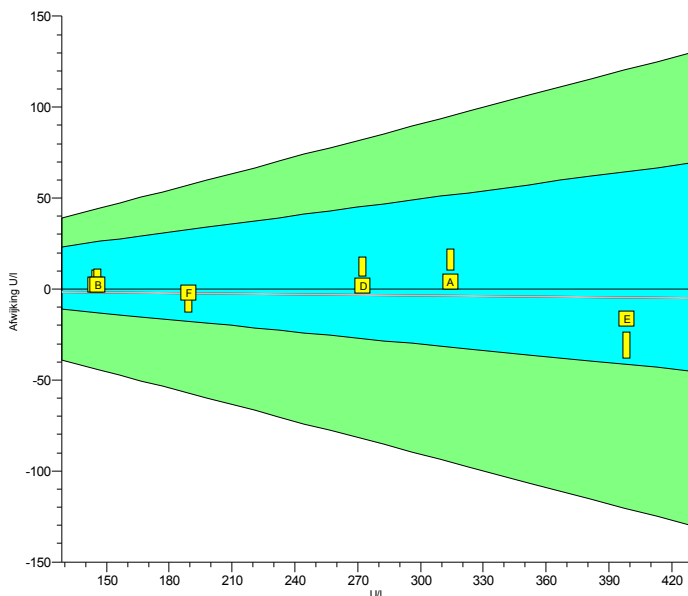
Legend

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

INPUTS 2013.1

CK

units: U/I



	2013.1	cumulative
Trueness	-0.61%	-0.61%
Precision	2.1%	2.1%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0 + 0.988.x$	$0 + 0.988.x$

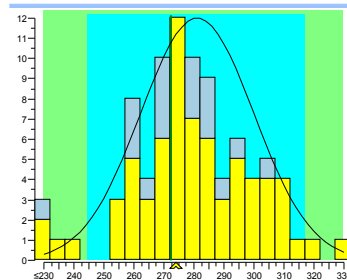
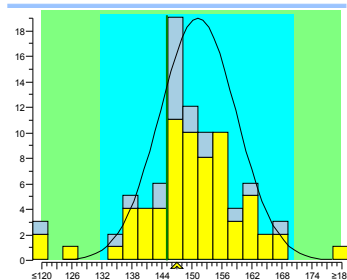
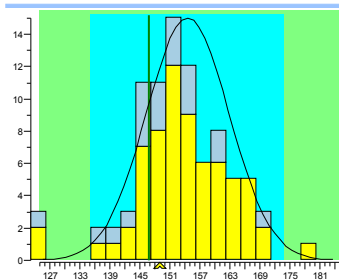
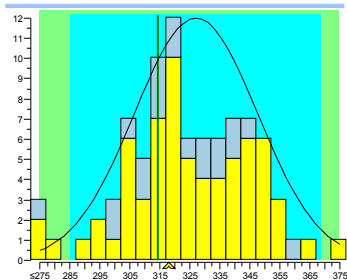
Consensus group IFCC traceerbaar
Method IFCC traceable

2013.1 A

2013.1 B

2013.1 C

2013.1 D



	cons.	meth.	ref.	lab
mean	327	327	314.3	318
SD	21	21		
n	68	68		
no	2	2		

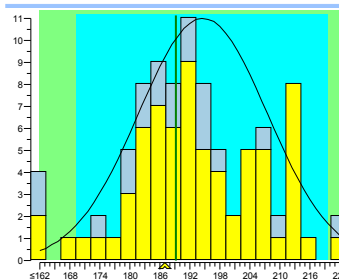
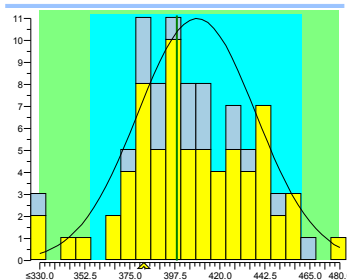
	cons.	meth.	ref.	lab
mean	154	154	145.8	148
SD	8	8		
n	67	67		
no	3	3		

	cons.	meth.	exp.	lab
mean	151	151	145	147
SD	8	8		
n	68	68		
no	4	4		

	cons.	meth.	ref.	lab
mean	281	281	272.3	274
SD	19	19		
n	69	69		
no	2	2		

2013.1 E

2013.1 F



	cons.	meth.	ref.	lab
mean	409	409	398.4	382
SD	30	30		
n	69	69		
no	2	2		

	cons.	meth.	ref.	lab
mean	195	195	189.2	187
SD	13	13		
n	69	69		
no	2	2		

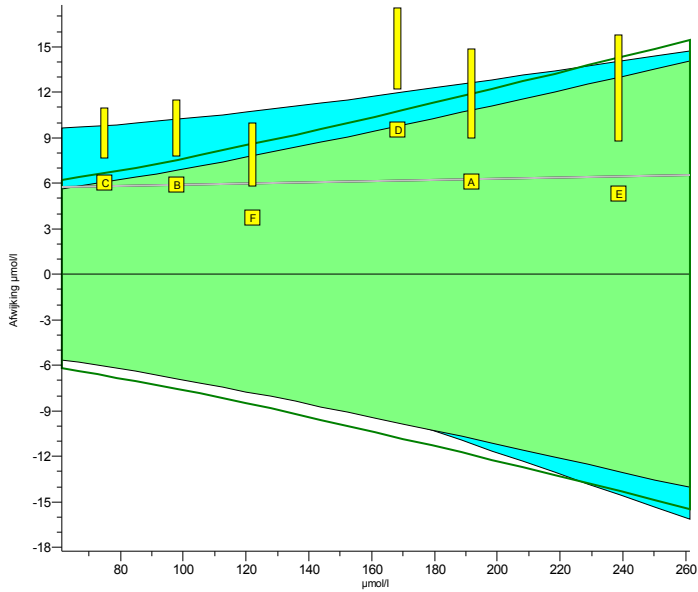
Legend

IFCC traceable IFCC non-traceable

INPUTS 2013.1

Creatinine

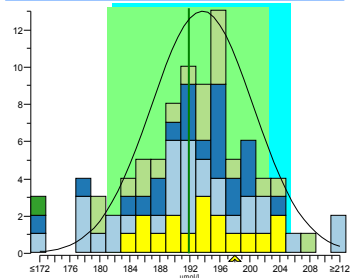
units: $\mu\text{mol/l}$



	2013.1	cumulative
Trueness	+4.1%	+4.1%
Precision	1.3%	1.3%
Number	6	6
Outliers	0	0
Sigma-TE	2.2	2.2
Sigma-SA	2.6	2.6
Score pictogram		
Regression line	$5.5 + 1.004.x$	$5.5 + 1.004.x$

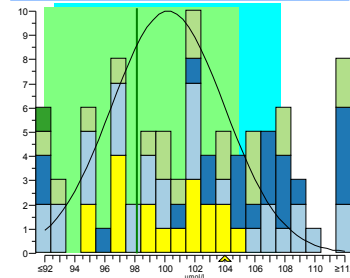
Consensus group: Enzymatische kreatinine
Method: Enzymatic, automatic

2013.1 A



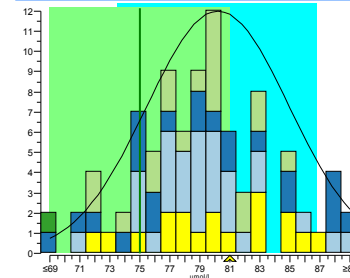
	cons.	meth.	ref.	lab
mean	193.7	193.7	191.9	198
SD	6.8	6.8		
n	17	17		
no	0	0		

2013.1 B



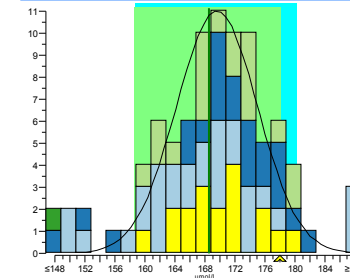
	cons.	meth.	ref.	lab
mean	100.2	100.2	98.11	104
SD	3.8	3.8		
n	18	18		
no	0	0		

2013.1 C



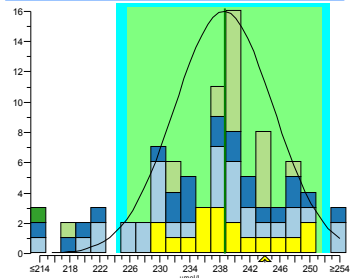
	cons.	meth.	exp.	lab
mean	80.2	80.2	75	81
SD	4.7	4.7		
n	18	18		
no	0	0		

2013.1 D



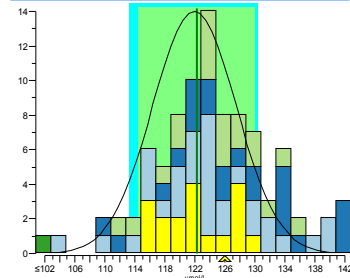
	cons.	meth.	ref.	lab
mean	169.6	169.6	168.5	178
SD	5.4	5.4		
n	18	18		
no	0	0		

2013.1 E



	cons.	meth.	ref.	lab
mean	238.5	238.5	238.7	244
SD	6.6	6.6		
n	18	18		
no	0	0		

2013.1 F



	cons.	meth.	ref.	lab
mean	121.9	121.9	122.3	126
SD	5.6	5.6		
n	18	18		
no	0	0		

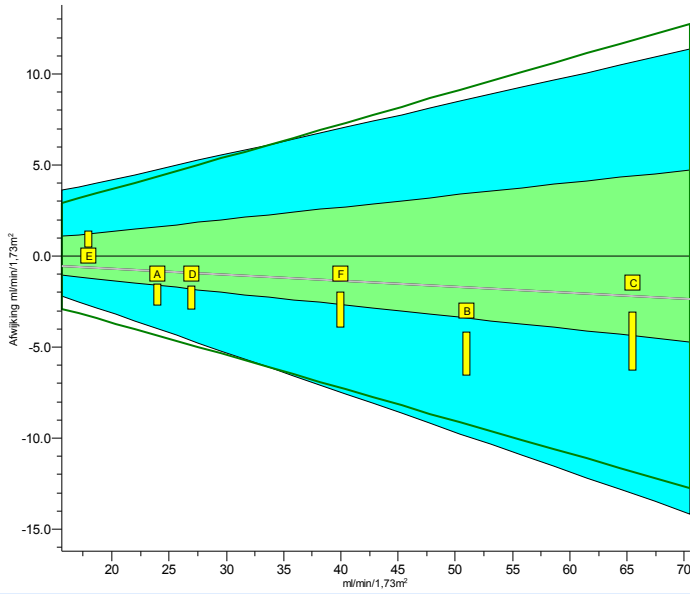
Legend

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

INPUTS 2013.1

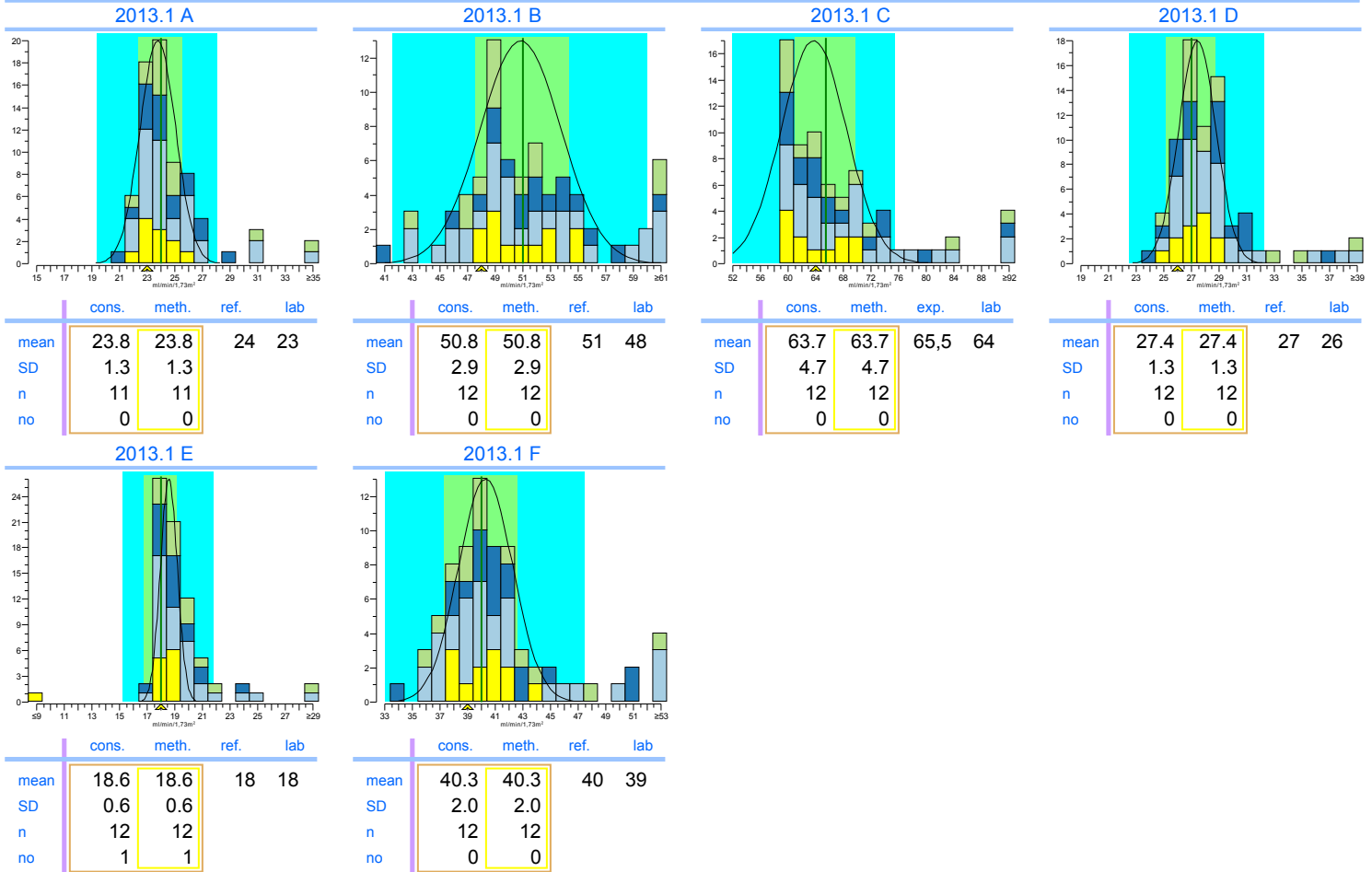
eGFR (F, 55, white)

units: ml/min/1,73m²



	2013.1	cumulative
Trueness	-3.3%	-3.3%
Precision	3.1%	3.1%
Number	6	6
Outliers	0	0
Sigma-TE	2.6	2.6
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	<u>0.0 + 0.966.x</u>	<u>0.0 + 0.966.x</u>

Consensus group Enzymatische kreatinine
Method Enzymatic, automatic



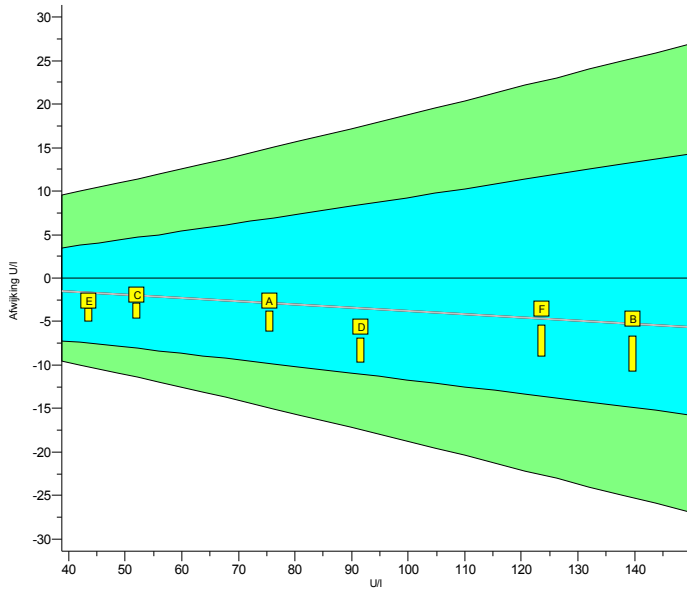
Legend

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

INPUTS 2013.1

Gamma-GT

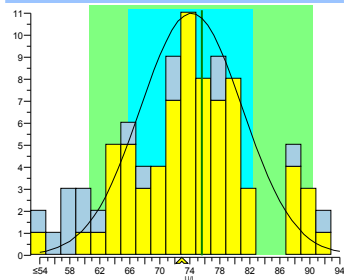
units: U/I



	2013.1	cumulative
Trueness	-4.0%	-4.0%
Precision	1.3%	1.3%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	5.9	5.9
Score pictogram		
Regression line	$0.0 + 0.962.x$	$0.0 + 0.962.x$

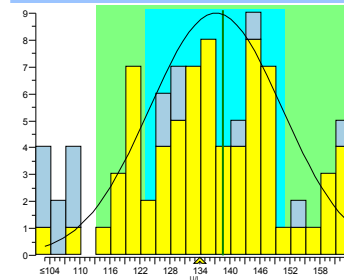
Consensus group IFCC traceerbaar
Method IFCC traceable

2013.1 A



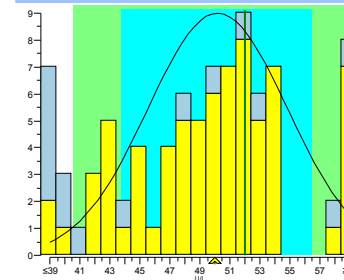
	cons.	meth.	ref.	lab
mean	74.2	74.2	75.6	73
SD	6.8	6.8		
n	72	72		
no	1	1		

2013.1 B



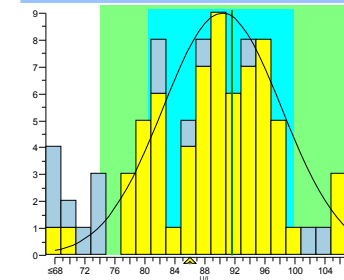
	cons.	meth.	ref.	lab
mean	138.2	138.2	139.7	135
SD	13.3	13.3		
n	72	72		
no	1	1		

2013.1 C



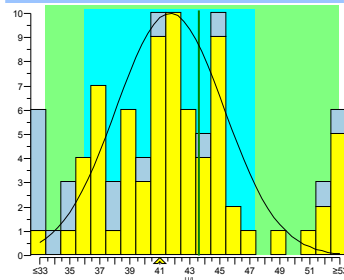
	cons.	meth.	exp.	lab
mean	50.2	50.2	52	50
SD	4.6	4.6		
n	72	72		
no	2	2		

2013.1 D



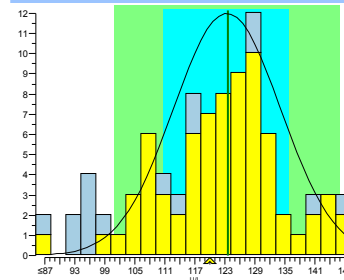
	cons.	meth.	ref.	lab
mean	90.3	90.3	91.6	86
SD	7.9	7.9		
n	71	71		
no	1	1		

2013.1 E



	cons.	meth.	ref.	lab
mean	41.7	41.7	43.6	41
SD	3.6	3.6		
n	73	73		
no	6	6		

2013.1 F



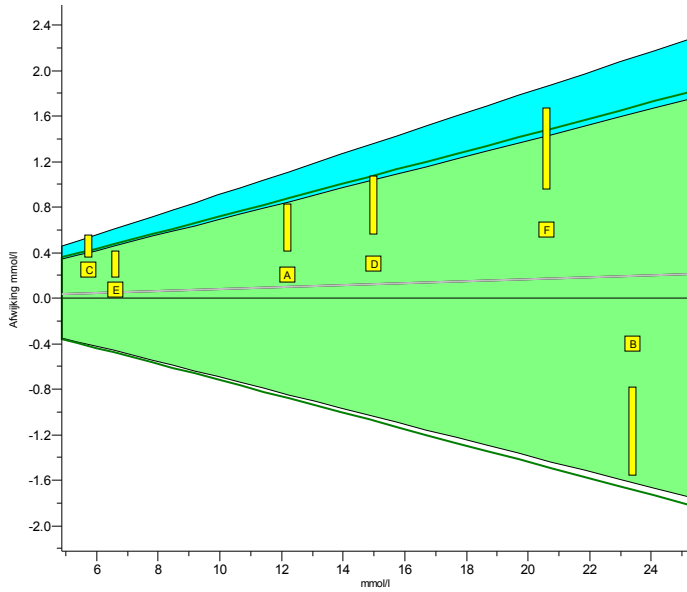
	cons.	meth.	ref.	lab
mean	123.4	123.4	123.6	120
SD	10.7	10.7		
n	73	73		
no	1	1		

Legend
 IFCC traceable
 IFCC non-traceable

INPUTS 2013.1

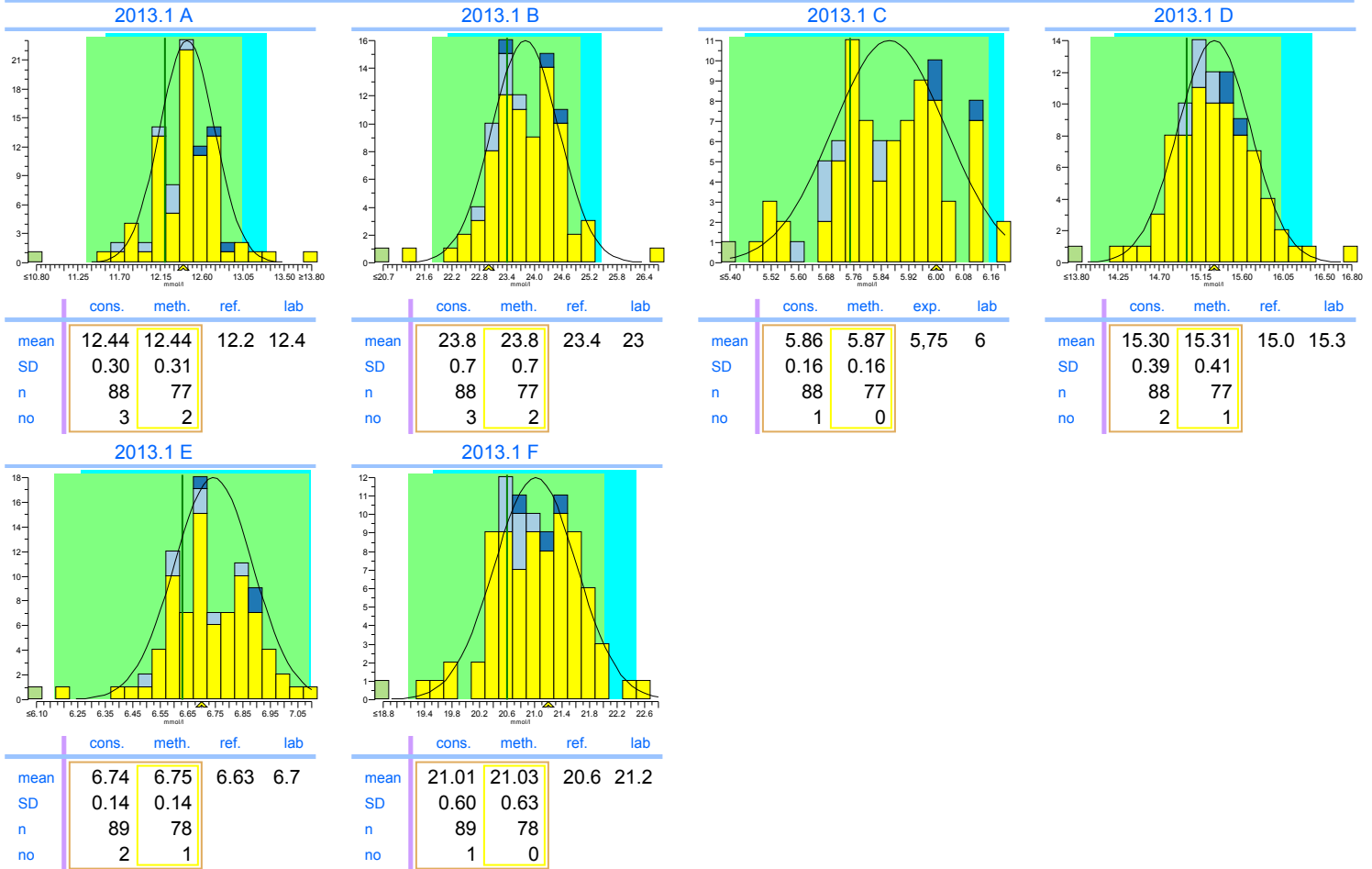
Glucose

units: mmol/l



	2013.1	cumulative
Trueness	+1.2%	+1.2%
Precision	2.3%	2.3%
Number	6	6
Outliers	0	0
Sigma-TE	4.2	4.2
Sigma-SA	4.4 1	4.4 1
Score pictogram		
Regression line	<u>0.00 + 1.008.x</u>	<u>0.00 + 1.008.x</u>

Consensus group Natte chemie
Method Hexokinase, automatic



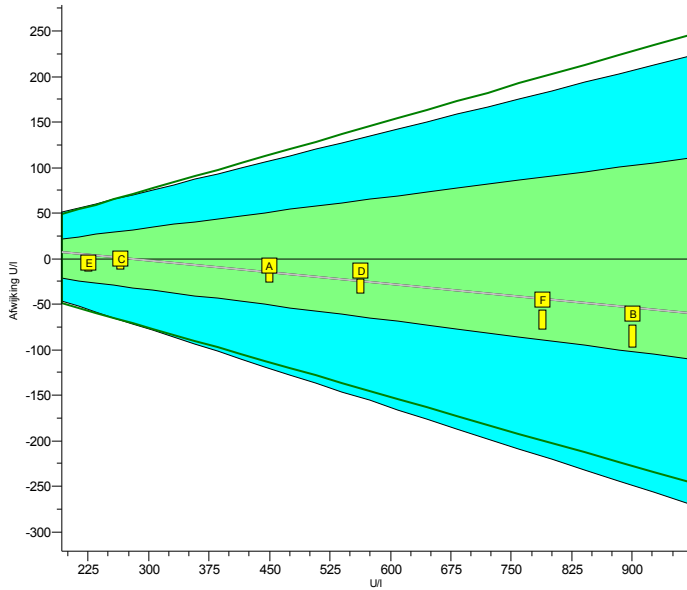
Legend



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

INPUTS 2013.1

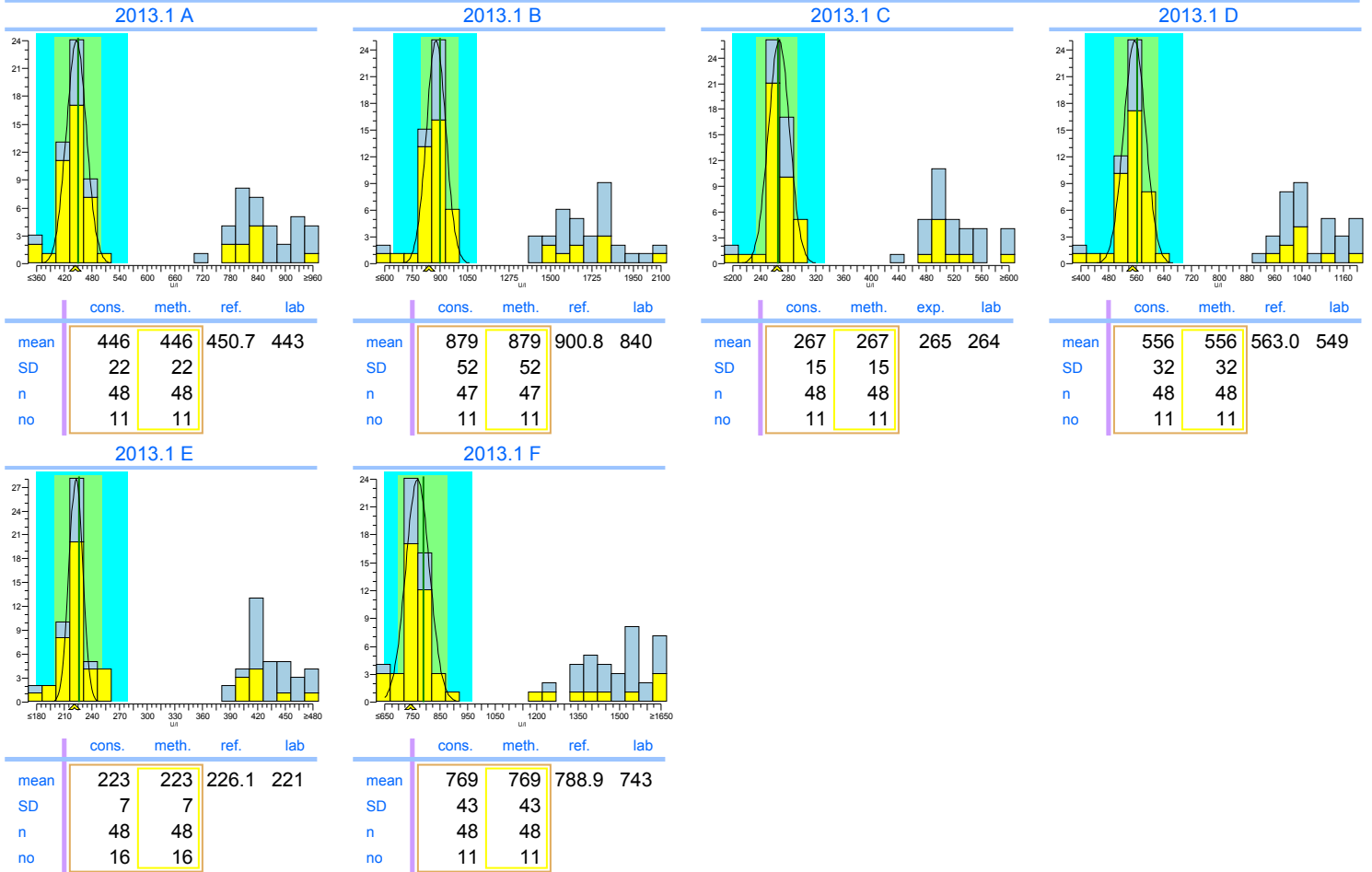
LD

units: U/I



	2013.1	cumulative
Trueness	-4.2%	-4.2%
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	$23 + 0.914 \cdot x$	$23 + 0.914 \cdot x$

Consensus group IFCC traceerbaar
Method IFCC traceable

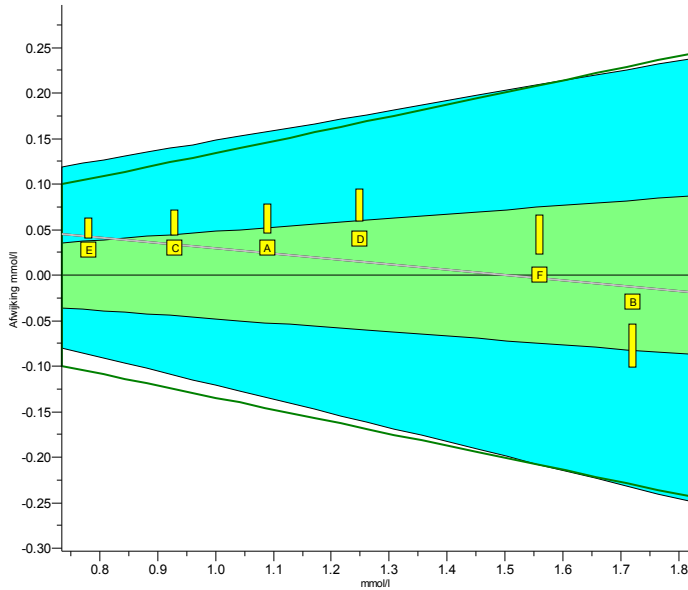


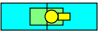
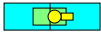
Legend
 IFCC traceable
 IFCC non-traceable

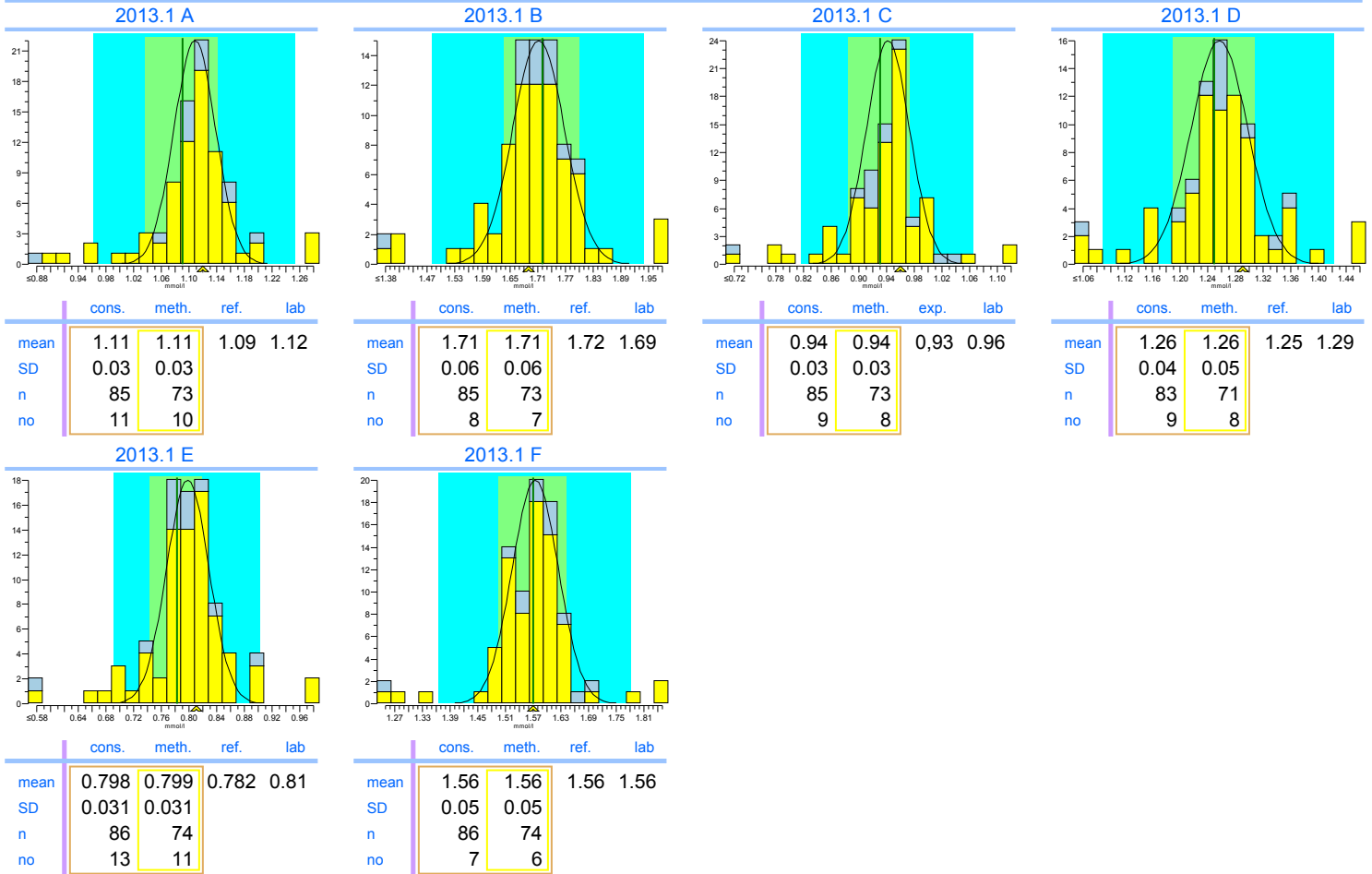
INPUTS 2013.1

Magnesium

units: mmol/l



	2013.1	cumulative
Trueness	+1.3%	+1.3%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	2.9	2.9
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$0.09 + 0.941.x$	$0.09 + 0.941.x$
Consensus group	Overall	
Method	Colorimetric	



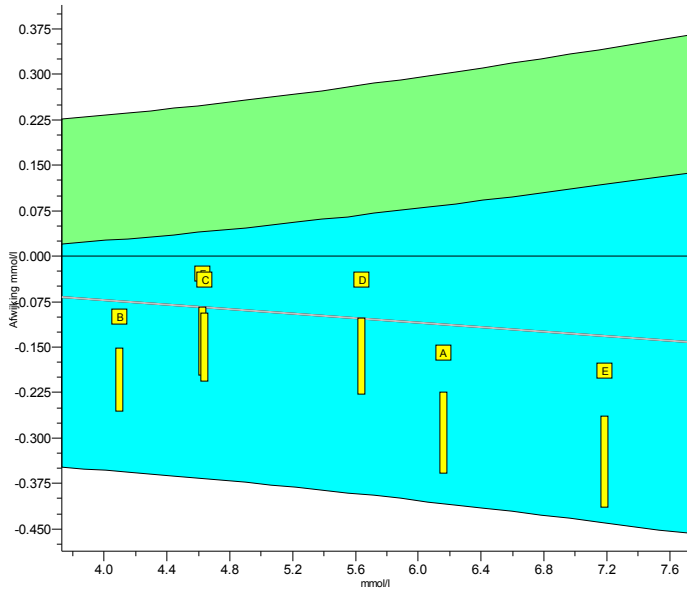
Legend



INPUTS 2013.1

Potassium

units: mmol/l



	2013.1	cumulative
Trueness	-1.7%	-1.7%
Precision	1.0%	1.0%
Number	6	6
Outliers	0	0
Sigma-TE	4.5 2	4.5 2
Sigma-SA	3.5	3.5
Score pictogram		
Regression line	<u>0.00 + 0.982.x</u>	<u>0.00 + 0.982.x</u>

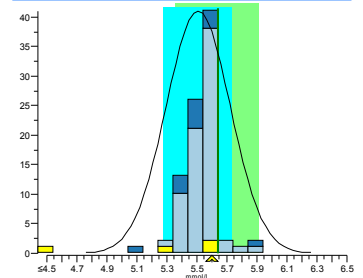
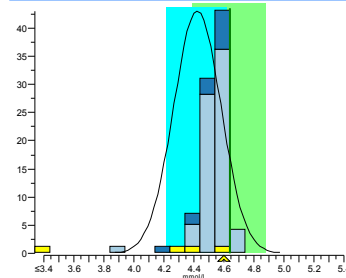
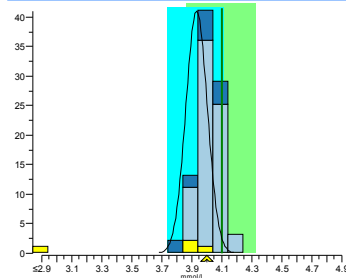
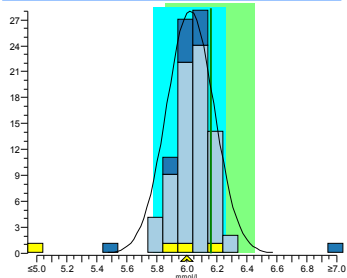
Consensus group	Other methods
Method	Other methods

2013.1 A

2013.1 B

2013.1 C

2013.1 D



	cons.	meth.	ref.	lab
mean	6.02	6.02	6.16	6
SD				
n	4	4		
no	1	1		

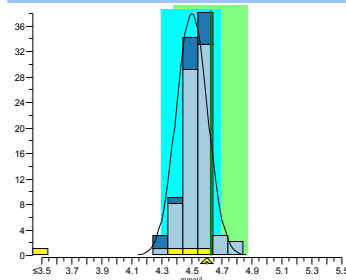
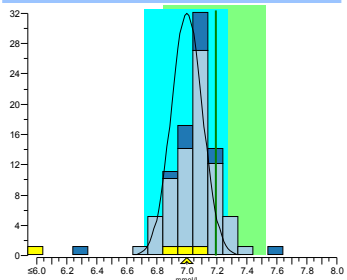
	cons.	meth.	ref.	lab
mean	3.93	3.93	4.10	4
SD				
n	4	4		
no	1	1		

	cons.	meth.	exp.	lab
mean	4.42	4.42	4.64	4.6
SD				
n	4	4		
no	1	1		

	cons.	meth.	ref.	lab
mean	5.51	5.51	5.64	5.6
SD				
n	4	4		
no	1	1		

2013.1 E

2013.1 F



	cons.	meth.	ref.	lab
mean	7.00	7.00	7.19	7
SD				
n	4	4		
no	1	1		

	cons.	meth.	ref.	lab
mean	4.50	4.50	4.63	4.6
SD				
n	4	4		
no	1	1		

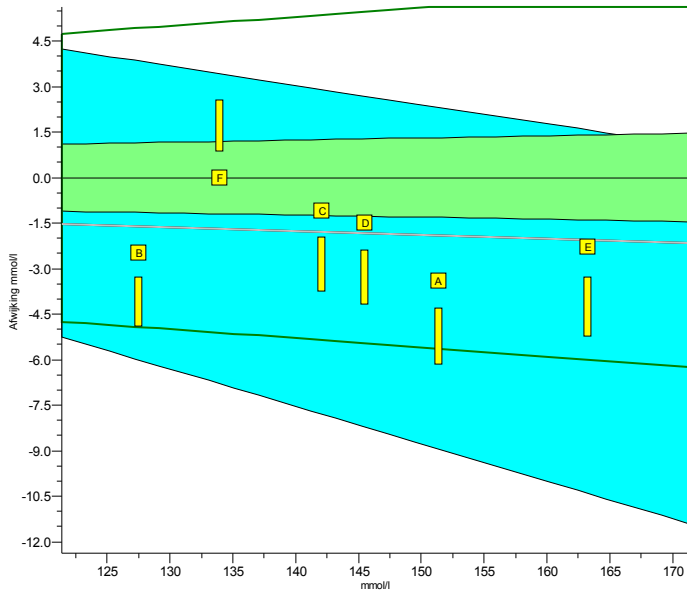
Legend

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

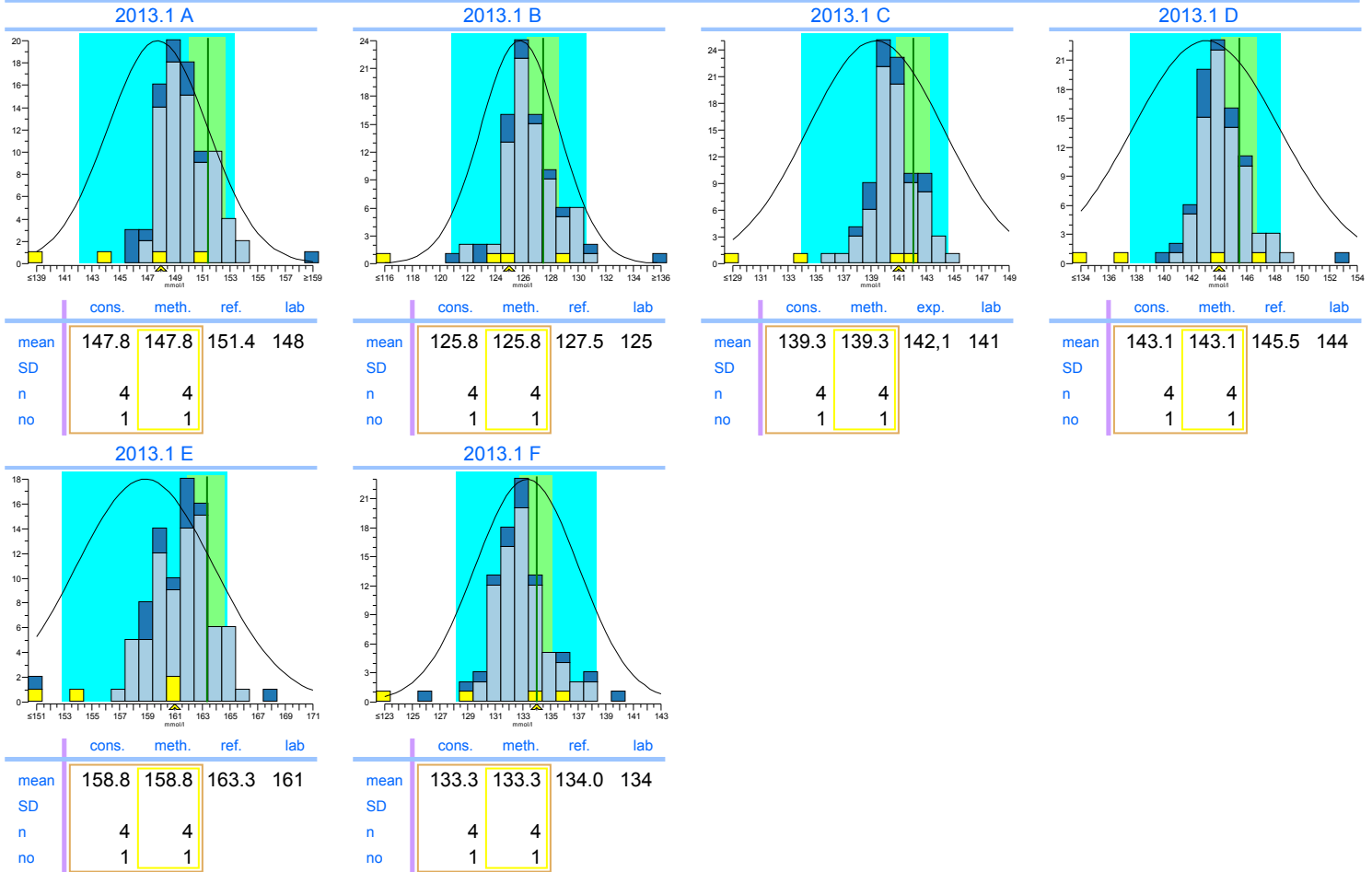
INPUTS 2013.1

Sodium

units: mmol/l



	2013.1	cumulative
Trueness	-1.3%	-1.3%
Precision	0.51%	0.51%
Number	6	6
Outliers	0	0
Sigma-TE	0.1	0.1
Sigma-SA	5.7 2	5.7 2
Score pictogram		
Regression line	$0.0 + 0.987.x$	$0.0 + 0.987.x$
Consensus group	Other methods	
Method	Other methods	



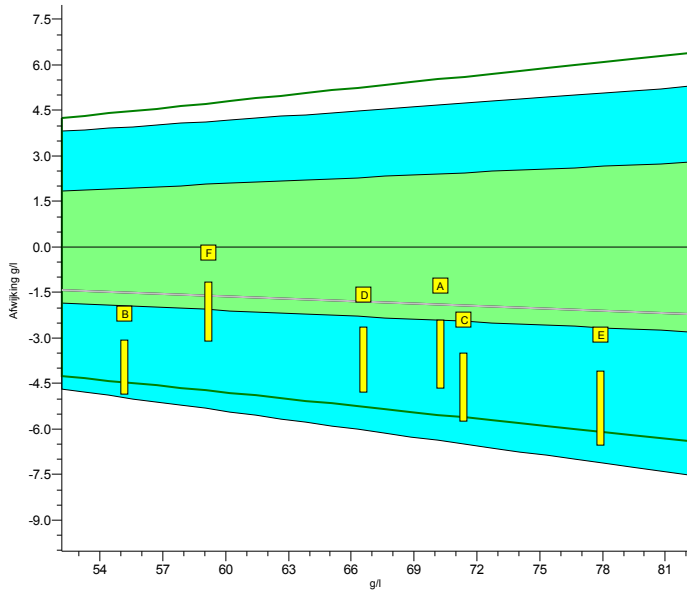
Legend

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

INPUTS 2013.1

Total Protein

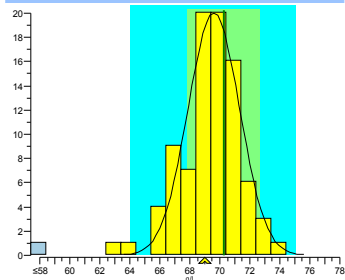
units: g/l



	2013.1	cumulative
Trueness	-2.6%	-2.6%
Precision	1.3%	1.3%
Number	6	6
Outliers	0	0
Sigma-TE	1.4	1.4
Sigma-SA	4.8 2	4.8 2
Score pictogram		
Regression line	$0.0 + 0.973.x$	$0.0 + 0.973.x$

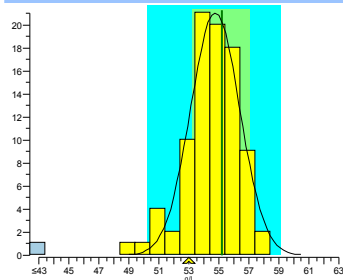
Consensus group Biureet
Method Biurete, automatic

2013.1 A



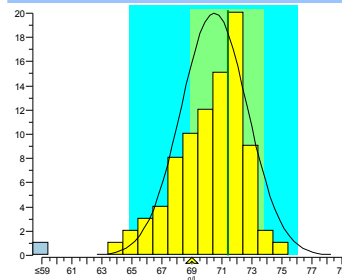
	cons.	meth.	ref.	lab
mean	69.6	69.6	70.3	69
SD	1.7	1.7		
n	88	88		
no	2	2		

2013.1 B



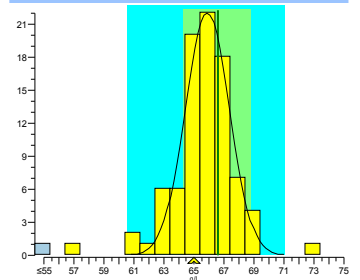
	cons.	meth.	ref.	lab
mean	54.8	54.8	55.2	53
SD	1.6	1.6		
n	88	88		
no	1	1		

2013.1 C



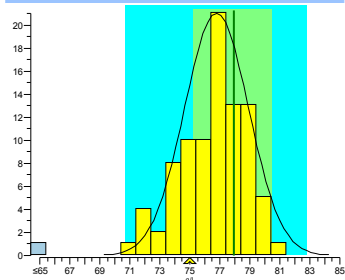
	cons.	meth.	exp.	lab
mean	70.5	70.5	71.4	69
SD	2.2	2.2		
n	87	87		
no	0	0		

2013.1 D



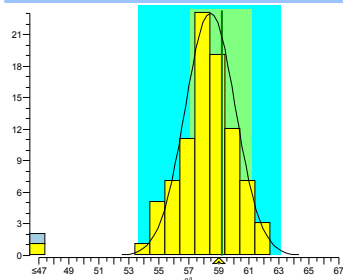
	cons.	meth.	ref.	lab
mean	65.9	65.9	66.6	65
SD	1.5	1.5		
n	88	88		
no	4	4		

2013.1 E



	cons.	meth.	ref.	lab
mean	76.8	76.8	77.9	75
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		

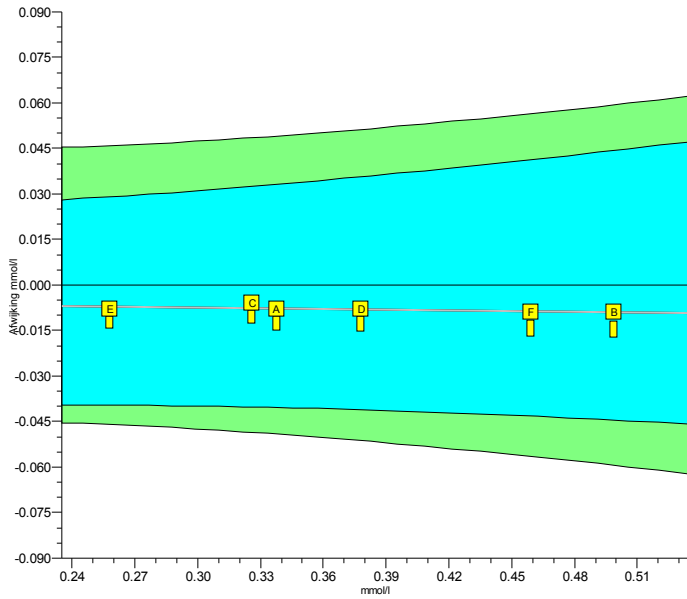
Legend

Biurete, automatic Other methods

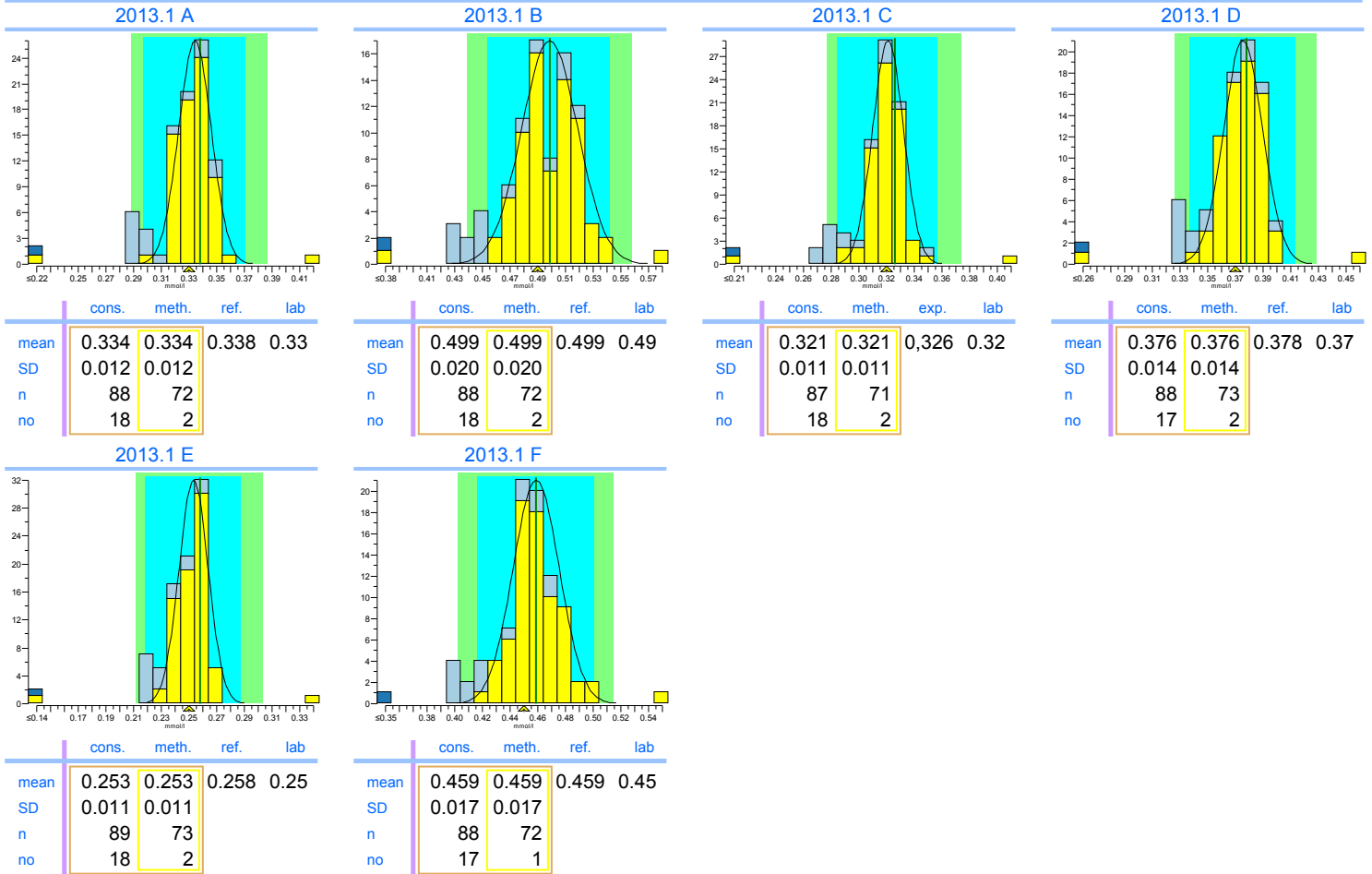
INPUTS 2013.1

Urate

units: mmol/l



	2013.1	cumulative
Trueness	-2.1%	-2.1%
Precision	0.53%	0.53%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$-0.005 + 0.992.x$	$-0.005 + 0.992.x$
Consensus group	Colorimetrisch	
Method	Uricase, colorim., automatic	



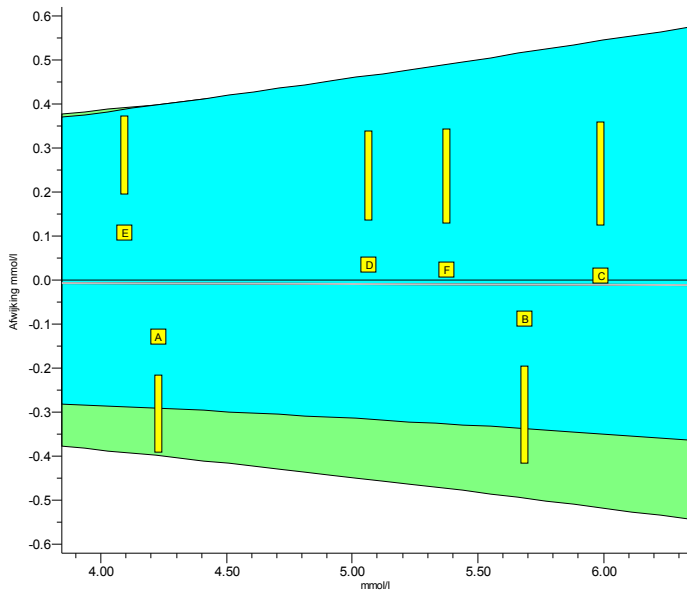
Legend


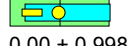
- Uricase, colorim., automatic
- Uricase, differential UV, automatic
- Overige methoden

INPUTS 2013.1

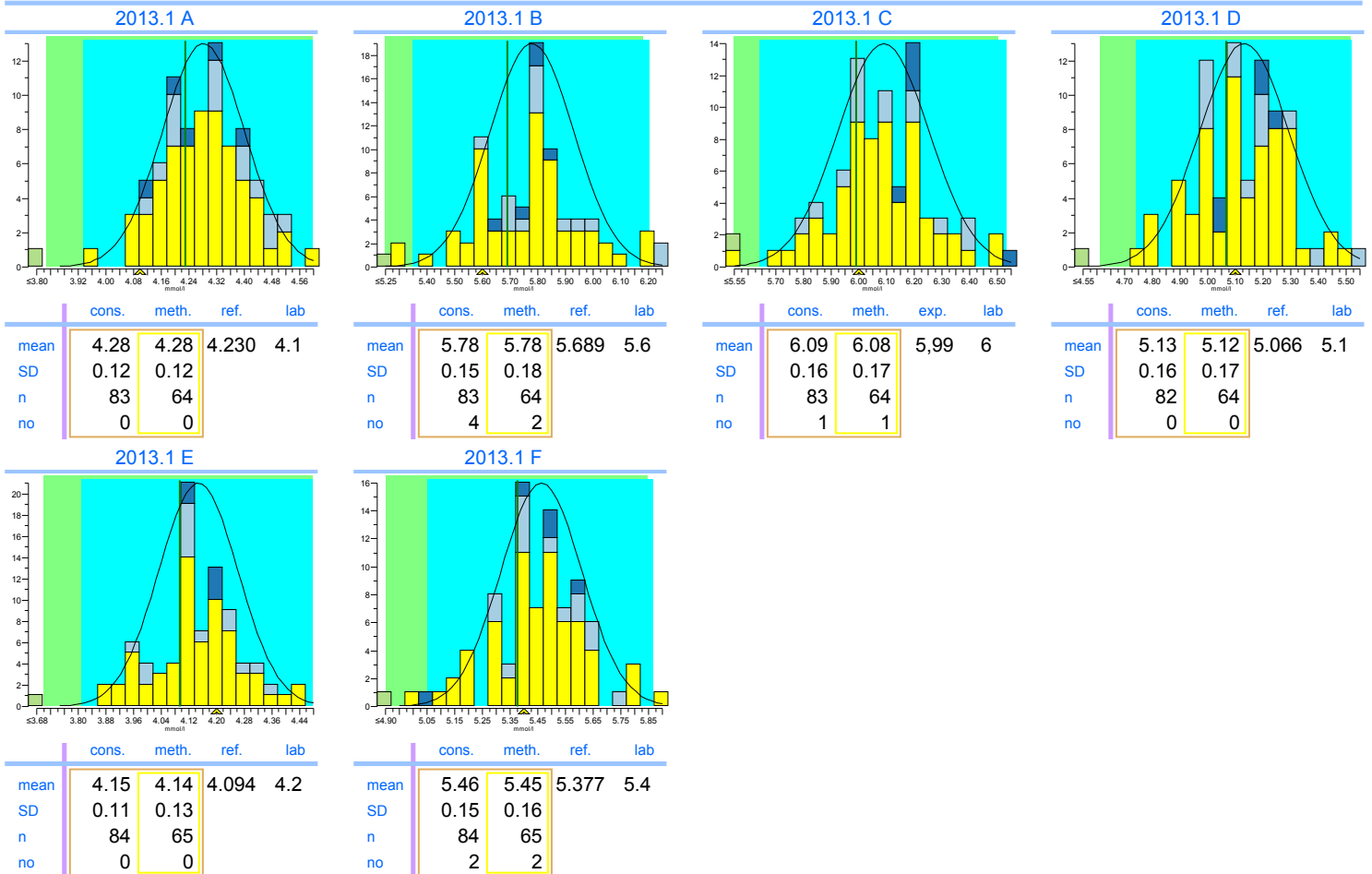
Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	-0.15%	-0.15%
Precision	1.7%	1.7%
Number	6	6
Outliers	0	0
Sigma-TE	5.5 2	5.5 2
Sigma-SA	4.7	4.7
Score pictogram		
Regression line	<u>0.00 + 0.998.x</u>	<u>0.00 + 0.998.x</u>

Consensus group Enzymatisch
Method Enzymatic, automatic, discrete



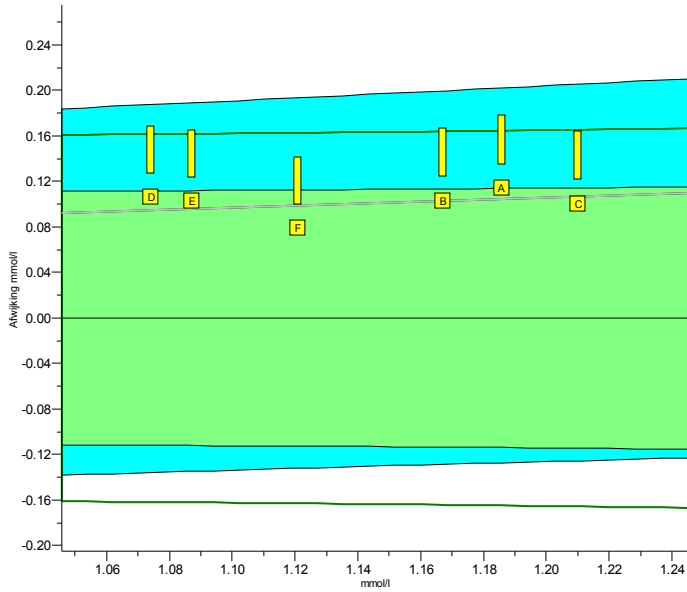
Legend

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

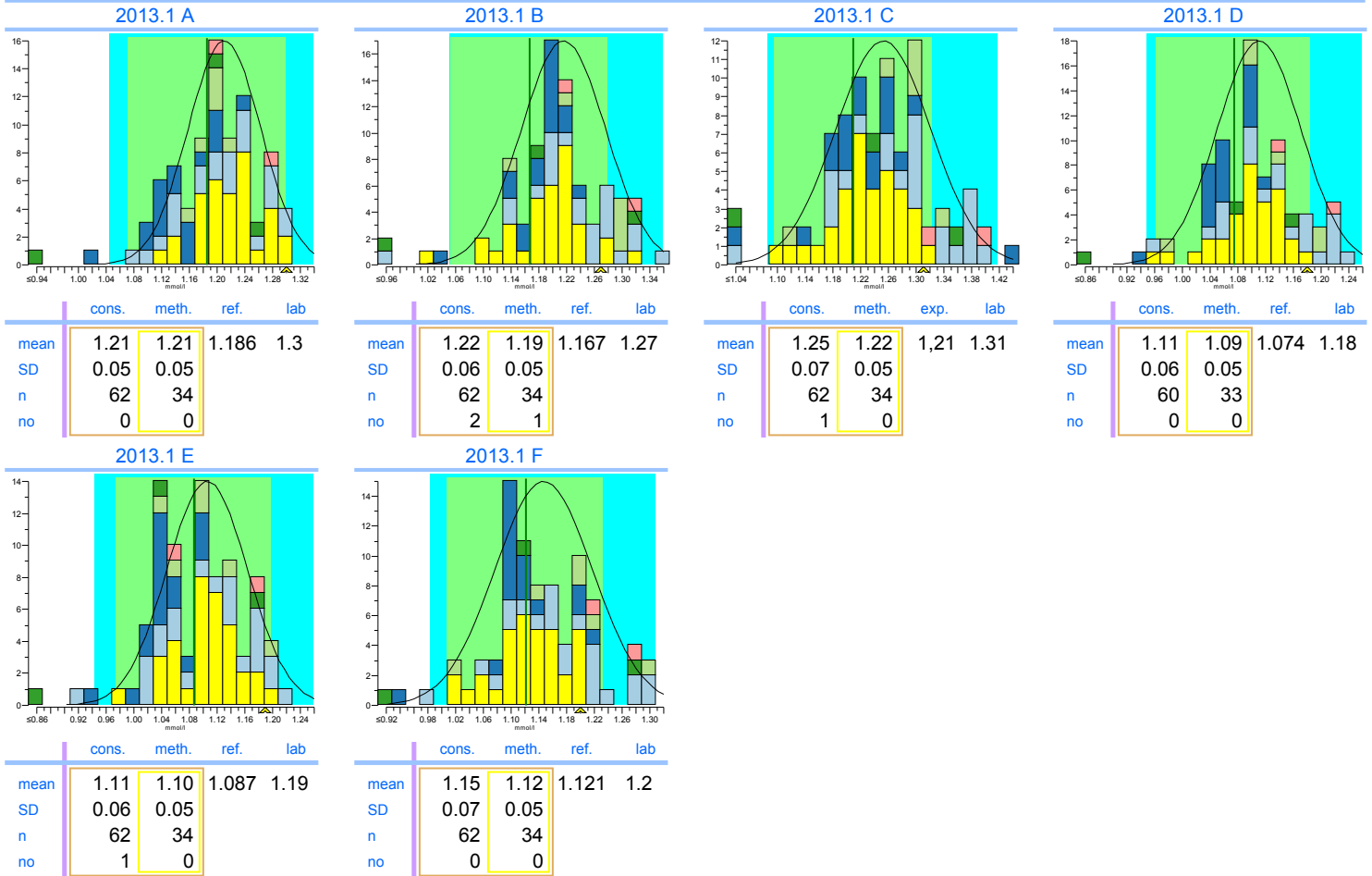
INPUTS 2013.1

HDL-Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	+8.8%	+8.8%
Precision	1.5%	1.5%
Number	6	6
Outliers	0	0
Sigma-TE	1.5	1.5
Sigma-SA	4.5 2	4.5 2
Score pictogram		
Regression line	<u>0.00 + 1.088.x</u>	<u>0.00 + 1.088.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