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New Reports & Interpretation

Annette Thomas

The Reports – what's different?

- Weqas SDs have been replaced by TAE (Total Allowable Error).
- This provides a better description of the Analytical performance specification as these are not based on the SD of the distribution, (Clinically relevant criteria/ biological variation/ state of the art).
- Performance specification limits = target value \pm TAE
- SDI has been replaced by PI (Performance Index)
- $$PI = \frac{\text{your result} - \text{target value}}{(TAE/2)}$$

Poor performance monitoring

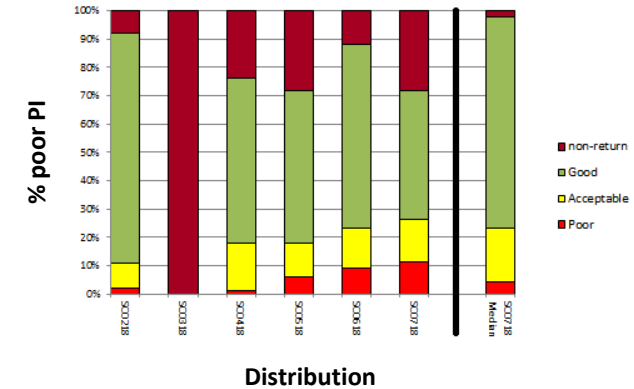
Interpretation of PI and % poor PI

PI < 1 Good

PI 1-2 Acceptable

PI > 2 Unacceptable (outside TAE)

P.I. ranges	
<1	Good
1 – 2	Acceptable
>2	Poor



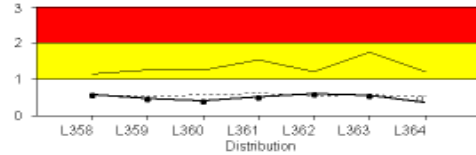
Overall Laboratory SDI has been replaced by % poor PI as the overall performance index. This represents the proportion of tests which obtained a poor score or were not returned

e.g. you measured 30 analytes on 3 samples on 2 instruments (180 tests) and had 5 PI scores > 2, therefore the overall % poor PI = $5/180 = 2.8\%$. Provides equal weighting for all the samples rather than averaging an SDI score.

The Reports – Manager's Summary - Quantitative

Old

This Distribution	
Overall Lab SDI:	0.36
Median All Laboratory:	0.52
97.5th centile:	1.21



---- Median —●— Lab SDI — 97.5th

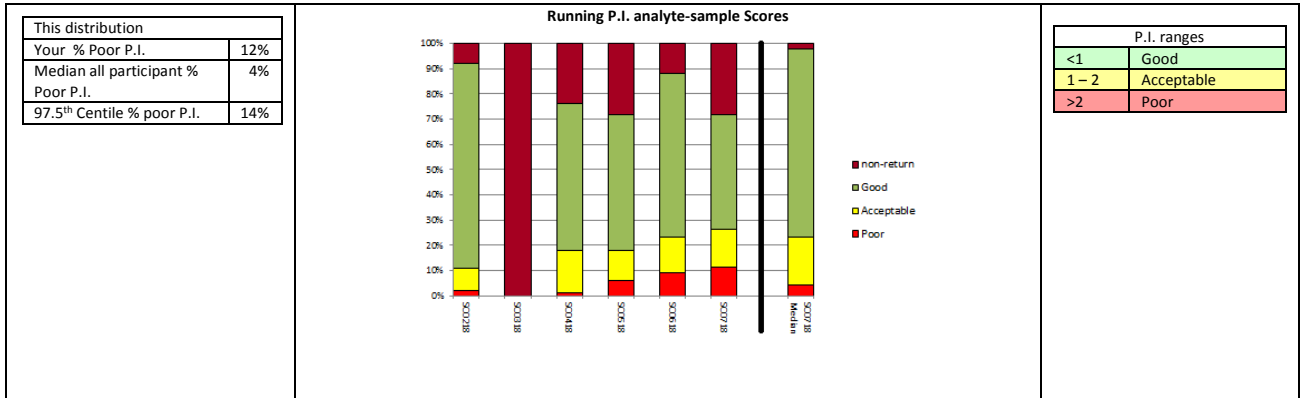
All SDI Ranges	
< 1	Good
1 - 2	Acceptable
> 2	Poor

Section SDI scores for this distribution

Section	Harris (700)	Tweed (800)
Overall	0.41	0.31
Cholesterol	0.46	0.30
Triglyceride	0.42	0.35
HDL Cholesterol	0.22	0.20
LDL Cholesterol	0.55	0.39

Quantitative Analyte Data

New



P.I. Scores					
Location	Location Name 1	Location Name 2		Location Name 3	
Instrument Name	15Character Name	15Character Name	15Character Name	15Character Name	15Character Name
Instrument Serial #	Serial#00001	Serial#00002	Serial#00003	Serial#00004	Serial#00005
analyte Name 1	NRR	NRR	0.78	N/A	5.28
analyte Name 2	NRR	NRR	0.69	1.18	5.01
analyte Name 3	NRR	NRR	0.58	1.29	4.95
analyte Name 4	NRR	NRR	0.92	1.02	4.82
analyte Name 5	NRR	NRR	0.38	1.38	5.29
analyte Name 6	NRR	NRR	0.14	1.01	6.01
analyte Name 7	NRR	NRR	0.68	0.84	4.92
analyte Name 8	NRR	NRR	0.25	0.78	5.12
analyte Name 9	NRR	NRR	0.31	N/A	4.98
analyte Name 10	NRR	NRR	0.42	N/A	5.34
Overall % poor P.I.	NRR	NRR	3.3%	9.5%	66.6%

The Reports – Manager's Summary - Quantitative

Group Version:

- Group report
 - Your % poor PI should be calculated based on all the tests for all the instruments in the group
 - Include a preference option for a group level user to choose whether or not to include the % poor P.I. for each of the participants within their group on this report

Version 1: user chooses not to include individual participant breakdown

This distribution	
Your Group % Poor P.I.	3%
Median all participant % Poor P.I.	4%
97.5 th Centile % poor P.I.	14%

Version 2: users chooses to include individual participant breakdown, small number of participants in the group

This distribution	
Your % Poor P.I. Overall group	3%
FGA0001	2%
FGC0001	5.2%
FHA0001	3.1%
Median all participant % Poor P.I.	4%
97.5 th Centile % poor P.I.	14%

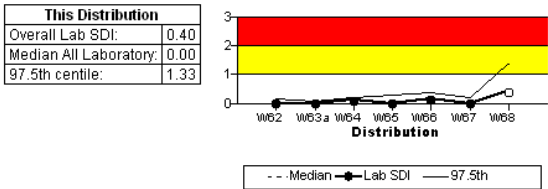
Participant code	Location	Instrument Serial #	Instrument Name	Analyte name 1	Analyte name 2	Analyte name 3	Analyte name 4	Analyte name 5	Analyte name 6	Analyte name 7	Analyte name 8	Analyte name 9	Analyte name 10	Analyte name 11	Analyte name 12	Analyte name 13	Analyte name 14	Overall % Poor P.I..
XYZ0001	A1	AB123456789C	Link	0.98	### #	###.##	###.# #	###.# #	###.# #	1.02	###.# #	###.# #	###.# #	N/A	N/A	N/A	0.98	6.1%
		BC123456789D	North	1.52						1.68				N/A	N/A	N/A	0.98	12.1 %
			South	0.45						0.52	###.# #	###.# #	###.# #	N/A	N/A	N/A	0.98	18.1 %
	A2 North	CD123456789E		2.58						N/A	###.# #	###.# #	###.# #	N/A	N/A	N/A	0.98	33.3 %
	A2 South	DE123456789F		?						?	###.# #	###.# #	###.# #	N/A	N/A	N/A	0.98	81.8 %
XXZ0001	A3 Link Trauma		Bed 1	?						N/A	###.# #	###.# #	###.# #	N/A	N/A	N/A	0.98	33.3 %
			Bed 2	?						N/A	###.# #	###.# #	###.# #	N/A	N/A	N/A	0.98	33.3 %
	A4 North	EF123456789G		?						?	###.# #	###.# #	###.# #	N/A	N/A	N/A	?	100 %
	A4 South	FG123456789H		0.87						1.21	###.# #	###.# #	###.# #	N/A	N/A	N/A	0.98	21.2 %
	A5 North (H&N/ENT)	GH123456789I		0.25	28.4 5					0.28	###.# #	###.# #	###.# #	N/A	N/A	N/A	2.98	15.1 %
ZZZ0001	Outpatients department		Clinic 1	###.##	###.# #	###.##	###.# #	###.# #	###.# #	###.# #	###.# #	###.# #	###.# #	###.# #	###.# #	###. #	###.##	18.2 %

Manager's Summary - Qualitative

Weqas

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office@weqas.com
Scheme Organiser: Annette Thomas

Lab: AE . Scheme: Urine Pregnancy Testing. Distribution Code: W68.
Final Report Issued: 5/10/11



Section SDI scores for this distribution

Section	2TB2	Clinical Research Facility	Dermatology	EAU - Lisa Waters	EAU - Medical A1 Link	EAU - Surgery	Emergency Gynae	FP Broad Street	FP Butetown
Overall	1.00	0.00	0.00				0.00	0.00	
Qualitative HCG (High Sensitivity)	1.00 (avg)	0.00 (avg)	0.00 (avg)	?	?	?	0.00 (avg)	0.00 (avg)	?
Section	FP Cardiff Royal	FP Gabalfa	FP Grangetown	FP Heath, C/O ANC	FP Llanrunney	FP Llantwit	FP Park View	FP Penarth	FP Roath
Overall	0.00	1.00	0.00	0.00	0.00	0.00		0.00	0.00
Qualitative HCG (High Sensitivity)	0.00 (avg)	1.00 (avg)	0.00 (avg)	0.00 (avg)	0.00 (avg)	0.00 (avg)	?	0.00 (avg)	0.00 (avg)

How do we calculate the % poor PI?

% of how many samples you misclassified as a total % of all samples assayed.

Correct Qualitative response	
Incorrect Qualitative response	
Qualitative Performance not assessed	
N/A	Not enrolled for this analyte
NRR	Analyte enrolled but no results returned
N/S	This quantitative analyte not scored for this distribution
NNR	Non-numerical results submitted: P.I. not available

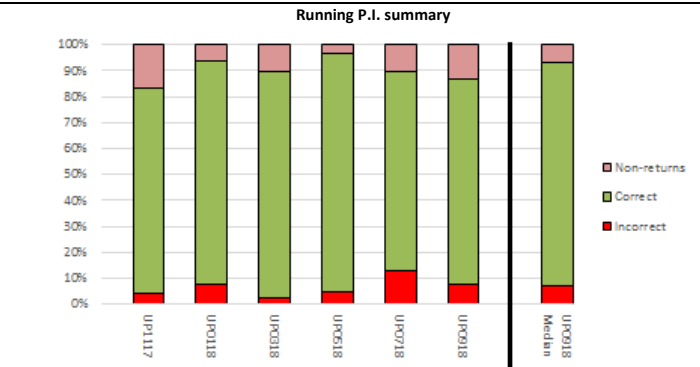
office@weqas.com
Scheme Organiser:
Annette Thomas

Old

New

Qualitative analyte data

This distribution	
Your % Incorrect	12%
Median all participant % Incorrect	4%
97.5th Centile % incorrect	14%



Participant	Location	Instrument Name	Serial number	Analyte Name 1			Analyte Name 2			Analyte Name 3			Analyte Name 4			Analyte Name 5		
				Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3
AAA001	Location Name 1		SN0000001	Neg	Pos	Pos	Pos	Neg	Pos	Pos	Neg	Pos	Neg	Pos	Pos	Pos	Pos	Neg
AAA001	Location Name 2	Bay 2A	SN0000002	Neg	Pos	Neg	Neg	Pos	Pos	Neg	Neg	Pos	Neg	Pos	Neg	Neg	Pos	Neg
AAA001	Location Name 2	Bay 2B	SN0000003	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR	NRR
AAA001	Location Name 3		SN0000004	Neg	Pos	Neg	Equ	Equ	Neg	N/A	N/A	N/A	Neg	Pos	Neg	Neg	Pos	Pos
AAA001	Location Name 3		SN0000005	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Pos	Neg	Pos	Neg	Pos	Pos	Bor

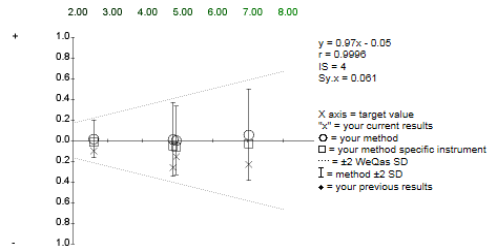
The Reports – Analyte Report - Quantitative

Old

Scheme: Lipid. Distribution Code: L364. Distribution Date: 26/03/18. Final Report Issued: 20/04/18					
Cholesterol (mmol/l)	1	2	3	4	Analyte SDI
Reported Result	6.80	2.50	4.60	4.80	
Method Corrected Result	6.800	2.500	4.600	4.800	
Cholesterol oxidase	Mean	7.092	2.617	4.876	4.963
	SD	0.225	0.093	0.183	0.169
	Number	174	174	174	174
	Uncert.	0.0214	0.0088	0.0174	0.0161
Cobas C Module	Mean	7.006	2.587	4.811	4.901
	SD	0.123	0.075	0.112	0.106
	Number	98	98	98	98
	Uncert.	0.0155	0.0094	0.0142	0.0134
Overall	Mean	7.081	2.615	4.868	4.953
	SD	0.233	0.090	0.189	0.174
	Number	179	181	179	181
	Uncert.	0.0218	0.0084	0.0176	0.0161
Reference Values CDC		7.038	2.606	4.867	4.963
Ref. Value Uncertainty		0.0140	0.0000	0.0000	0.0000
Non-scoring Reference Values ID-GCMS		7.110	2.590	4.850	4.970
WeGas SD		0.301	0.111	0.207	0.210
SDI		-0.79	-0.95	-1.29	-0.77
Sigma Metrics					
Critical Level 1: 5.0 mmol/l					
Minimum Acceptable score		1.67	Critical Level 1 Sigma score		3.8
MAPS Allowable TE		8.5%			
MAPS Allowable bias %		4.0%	Lab [bias] %		3.9%
MAPS Allowable CV %		2.7%	Lab CV %		1.2%

Please note: Linear regression uses CF corrected data.

This Distribution L364



Precision

This Distribution L364	Previous Distributions	L363	L362	L361	L360	L359	L358
Sy.x = 0.061 mmol/l	Sy.x	0.046	0.092	0.098	0.058	0.074	0.034
IS = 4	IS	6	9	11	6	11	3

Sy.x is the average deviation from the best fit line and is an index of scatter.

Accuracy

This Distribution L364	Previous Distributions	L363	L362	L361	L360	L359	L358
Systematic proportional error (calibration) -2.96%	Proportional (%)	-4.76	-0.40	2.58	0.31	3.60	-0.28
Systematic constant error (blank) -0.049 mmol/l	Constant (mmol/l)	0.121	0.020	-0.153	-0.005	-0.175	-0.061

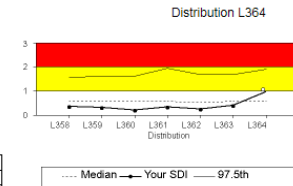
Bias includes components of proportional and constant errors. A proportional bias suggests an error of calibration whilst a constant bias suggests a blank error. Mixed errors will include significant components of both.

Total Error

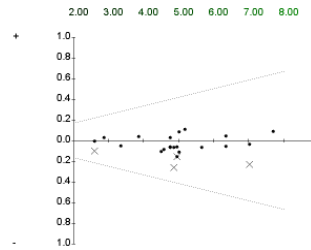
SDI is a measurement of your total error and will include both inaccuracy and imprecision.

This Distribution L364
Your average analyte SDI for the 4 samples is 0.95

Previous SDI



Previous Distributions



Precision Key

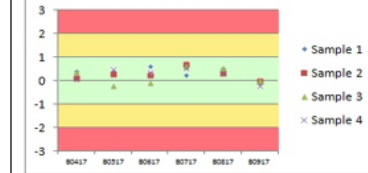
IS score	Interpretation
0 to 10	Good
11 to 150	Acceptable to Warning level
> 150	Unacceptable (including Curvilinear Data)

New

Participant Code: BY00001 · Location: <###20 Characters##> · Analyser Name: <15 Characters> · Serial #: AB00045237A
Scheme: Bilirubin. Distribution Code: B0917. Analyte: Total Bilirubin
Distribution start: 04-Sep-17 Distribution End: 18-Sep-2017 Report Issued: 22-Sep-2017 Report Status: final

Total Bilirubin (μmol/L)		Method: Vanadate Oxidation	Instrument Model: 8600 Chemistry	Overall	Scoring Reference Value	Non-Scoring Reference Value
	Your reported result (μmol/L)	Your result in standard units (μmol/L)	Your Method Corrected result	Mean	145.65	141.27
Sample 1	14.5	145		sd	5.36	10.59
				uncertainty	1.537	0.758
				n	19	322
Sample 2	0.4	4		Mean	4.03	4.35
				sd	0.08	1.46
				uncertainty	0.024	0.108
				n	19	284
Sample 3	19.8	198		Mean	198.02	190.67
				sd	6.53	13.50
				uncertainty	1.873	0.939
				n	19	323
Sample 4	35.4	354		Mean	357.83	339.69
				sd	13.57	24.08
				uncertainty	3.891	1.685
				n	19	319

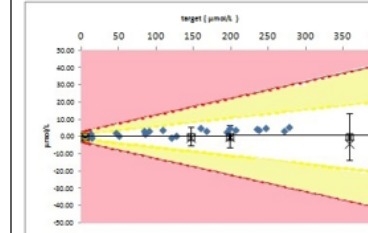
Running P.I.



scoring for B0917:

Sample	1	2	3	4	average
scored against: method mean	145.65	4.03	198.02	357.83	
TAE WeGas	16.70	3.52	21.48	35.84	
P.I.	-0.08	-0.02	0	-0.21	0.08
Critical level 150.00 μmol/L - Sigma Score					3.75

Bias (absolute)



Precision

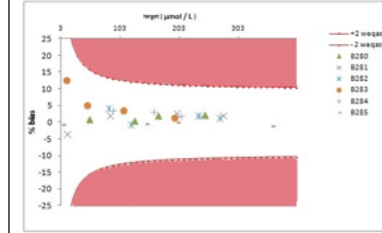
	B0417	B0517	B0617	B0717	B0817	This distribution: B0917
Sy.x	1.68	1.98	2.97	1.87	2.19	1.09
IS	1	1	4	2	4	0

Sy.x is the average deviation from the best fit line and is an index of scatter.

Method Summary Table

B0917	sample 1	sample 2	sample 3	sample 4
Method Name	mean	cv%	mean	cv%
Abaxis Piccolo (n=5)	131.2	3.4	6.4	9.7
Bedimen LX/CX/OX (n=5)	140.8	2.5	4.0	51.9
Diateo (n=62)	141.3	4.4	4.6	13.6
IL Gas Analysers (n=44)	155.4	4.9	5.9	19.3
Radiometer Gas Analysers (n=44)	149.7	5.5	5.7	26.4
Radiopoint 500 (n=6)	149.0	2.4	3.3	85.2
Roche Diateo (n=127)	133.5	3.1	3.1	9.5
Siemens Gas Analysers (n=4)	148.3	2.3	3.3	87.2
Vanadate Oxidation (n=19)	145.7	3.7	4.0	2.1
WeGas (T 86) (n=3)	164.7	0.4	5.3	11.3

Bias (relative %)



The Reports – what's different?

Total Bilirubin (μmol/L)									
	Your reported result (μmol/dL)	Your result in standard units (μmol/L)	Your Method Corrected result		Method: Vanadate Oxidation	Instrument Model: Advia Chemistry	Overall	Scoring Reference Value	Non-Scoring Reference Value
Sample 1	14.5	145		Mean	145.65	145.65	141.27	#.##	
				sd	5.36	5.36	10.59		
				U	1.537	1.537	0.738		
				n	19	19	322		
Sample 2	0.4	4		Mean	4.03	4.03	4.35	#.##	
				sd	0.08	0.08	1.46		
				U	0.024	0.024	0.108		
				n	19	19	284		
Sample 3	19.8	198		Mean	198.02	198.02	190.67	#.##	
				sd	6.53	6.53	13.50		
				U	1.873	1.873	0.939		
				n	19	19	323		
Sample 4	35.4	354		Mean	357.83	357.83	339.69	#.##	
				sd	13.57	13.57	24.08		
				U	3.891	3.891	1.685		
				n	19	19	319		

Results displayed in your units, can directly compare results across the columns for lab, method, instrument, overall and reference method.

Method Summary Table – top 10 methods displayed

B0917	sample 1		sample 2		sample 3		sample 4	
Method Name	mean	cv%	mean	cv%	mean	cv%	mean	cv%
Abaxis Piccolo (n=5)	131.2	3.4	6.4	9.7	177.0	2.4	312.2	2.0
Beckman LX/CX/DX (n=5)	140.8	2.5	4.0	51.9	188.7	2.7	341.5	1.4
Diazo (n=62)	141.3	4.4	4.8	13.6	190.0	4.1	334.2	3.8
IL Gas Analysers (n=44)	155.4	4.9	5.9	19.3	208.8	4.7	371.4	4.2
Radiometer Gas Analysers (n=44)	149.7	5.5	5.7	26.4	202.1	4.6	359.6	3.7
Rapidpoint 500 (n=6)	149.0	2.4	3.3	85.2	194.3	2.7	362.5	5.7
Roche Diazo (n=127)	133.3	3.1	3.1	9.5	180.3	2.5	322.0	2.6
Siemens Gas Analysers (n=4)	148.3	2.3	3.3	87.2	199.3	3.1	374.0	3.6
Vanadate Oxidation (n=19)	145.7	3.7	4.0	2.1	198.0	3.3	357.8	3.8
Vitros (T Bil) (n=3)	164.7	0.4	5.3	12.3	217.0	1.4	366.0	1.9

- top 10 method groups ordered in terms of decreasing values of n=#
- Hyperlink allows the user to access the full method summary table listing data for all the method groups for that analyte

The Reports – what's different?

Running PI



Distribution

This plot shows the current distribution and the previous 5 distributions in which this instrument was included, in date order from left (earliest distribution) to right (most recent distribution)

All the Samples are now plotted rather than just the Avg SDI

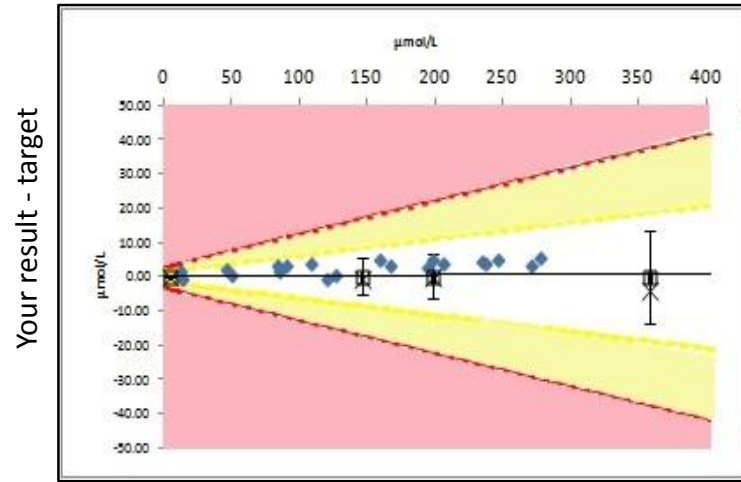
Both negative and positive PIs are displayed

PI Scores for this Distribution B0917

Sample	1	2	3	4	average
scored against: method mean	145.65	4.03	198.02	357.83	
TAE Weqas	16.70	3.52	21.48	35.84	
P.I.	-0.08	-0.02	0	-0.21	0.08
Critical level 150.00 µmol/L – Sigma Score					3.75

States what is being used at the target value
 States the performance specification limits (TAE)
 PI score for each sample (+ or -)
 Sigma score

Absolute –Bias plot



Target value

Linear regression

$$y = 1.04 - 1.26x$$

$$r = 1.0000$$

$$IS = 0$$

$$S_{y,x} = 1.09$$

bias key

x axis = target value

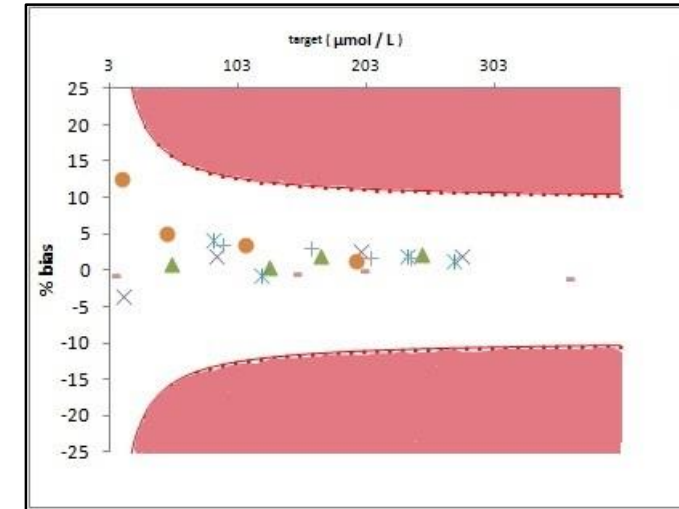
'x' = your current results

◇ = your previous results

° = your method mean

□ = your instrument model mean

Relative –Bias plot



Target value



Red line represents target \pm TAE, yellow line represents target \pm 0.5 TAE .

Red area represents unacceptable results, PI >2

Yellow area represents acceptable results, PI = 1-2

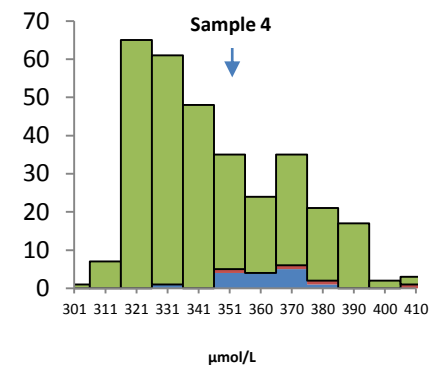
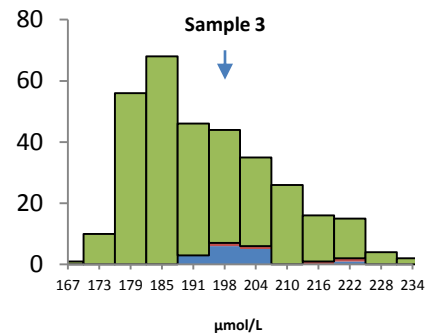
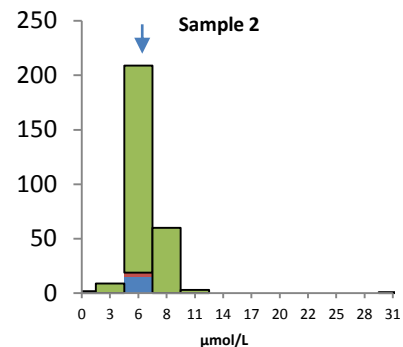
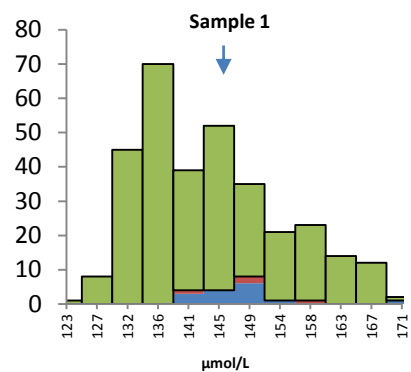
White area represents good results, PI <1

Red line represents target \pm TAE

Previous Distributions are highlighted as separate series

Graph now includes previous results

Histogram of results



Green – all results
Blue – Method
Pink - Instrument

Comments box

Weqas supplied comment for Total Bilirubin: <i>There is no comment for Total Bilirubin for this distribution</i>	Participant supplied comment for Total Bilirubin: Calibrator Lot # BB128974. Awaiting engineer callout for scheduled maintenance
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The Reports – Analyte Report - Qualitative

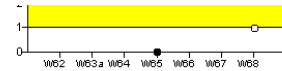
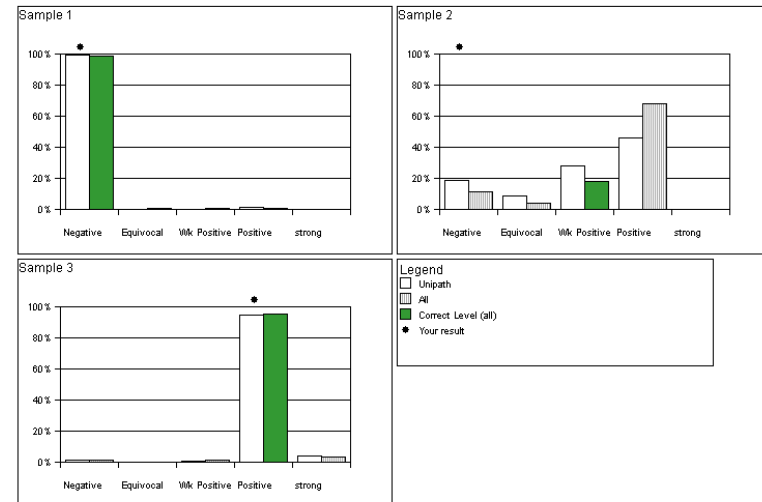
Old

Qualitative Report

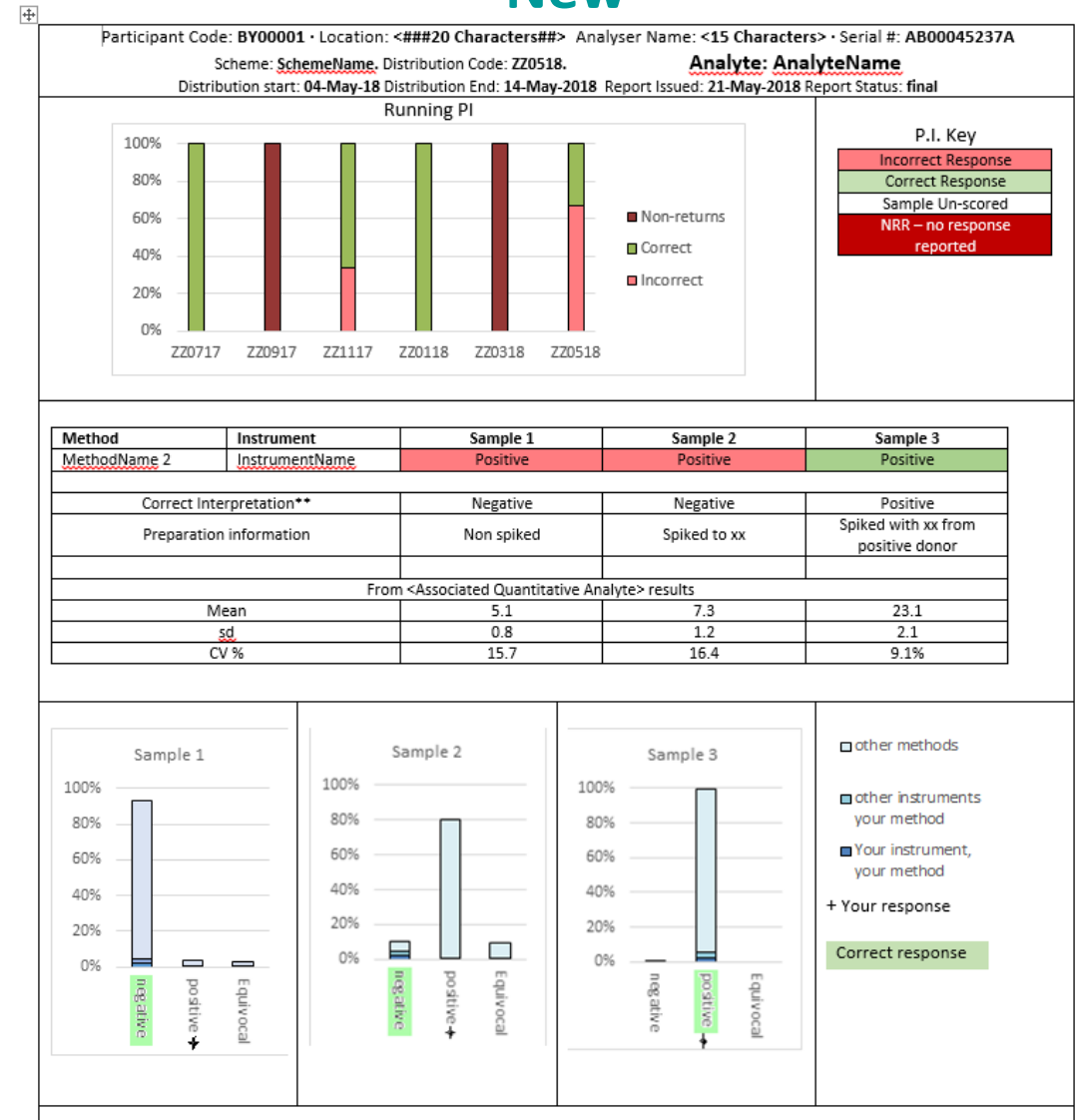
Lab Code: AE Section: 2TB2

Qualitative HCG (High Sensitivity) Results

Lab Code	Section	Method	Instrument	Sample Number			Sample Score			Average Score
				1	2	3	1	2	3	(Average)
AE	2TB2	Unipath	Clearview HCG (3min)	Negative	Negative	Positive	0	2	0	1.00
Interpretation				Negative	Wk Positive	Positive				
Spiked Value				Urine from non pregnant donor	Pregnant donor urine diluted to approx 29iu	Pregnant donor urine diluted to approx 336iu				

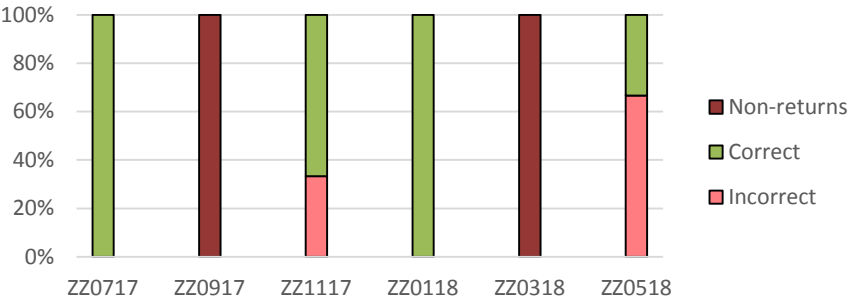


New



The Reports – what’s different?

Running PI

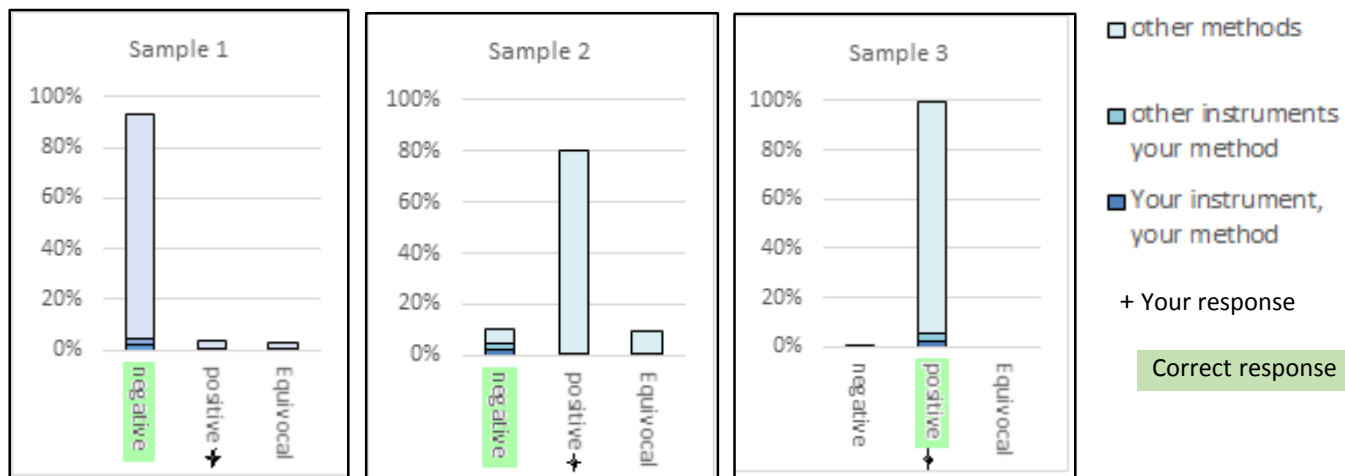


Similar to the manager’s summary for qualitative analytes, this plot is a stacked % plot based on the performance interpretation of individual test responses for the given analyte-instrument combination across all samples.

Data Table

Method	Instrument	Sample 1	Sample 2	Sample 3
MethodName 2	InstrumentName	Positive	Positive	Positive
Interpretation**		Negative	Negative	Positive
Sample Description		Non spiked	Spiked to xx	Spiked with xx from positive donor
From <Associated Quantitative Analyte> results				
Mean		5.1	7.3	23.1
SD		0.8	1.2	2.1
CV %		15.7	16.4	9.1%

- Row 1: the responses reported by the User, colour coded according to the performance classification assigned for that response.
- Where no result has been submitted, NRR would be indicated and coloured red
- Where no performance classification has been assigned (flagged to not score) the response would appear with no coloured background applied
- Row 2: The correct interpretation for that sample. Cut off for interpretation based on clinical use / outcomes
- Row 3: Description of the concentration / nature of the sample
- Row 4 – 7: If the qualitative analyte has been associated with a quantitative analyte in the same scheme, the table would include summary information for that analyte.



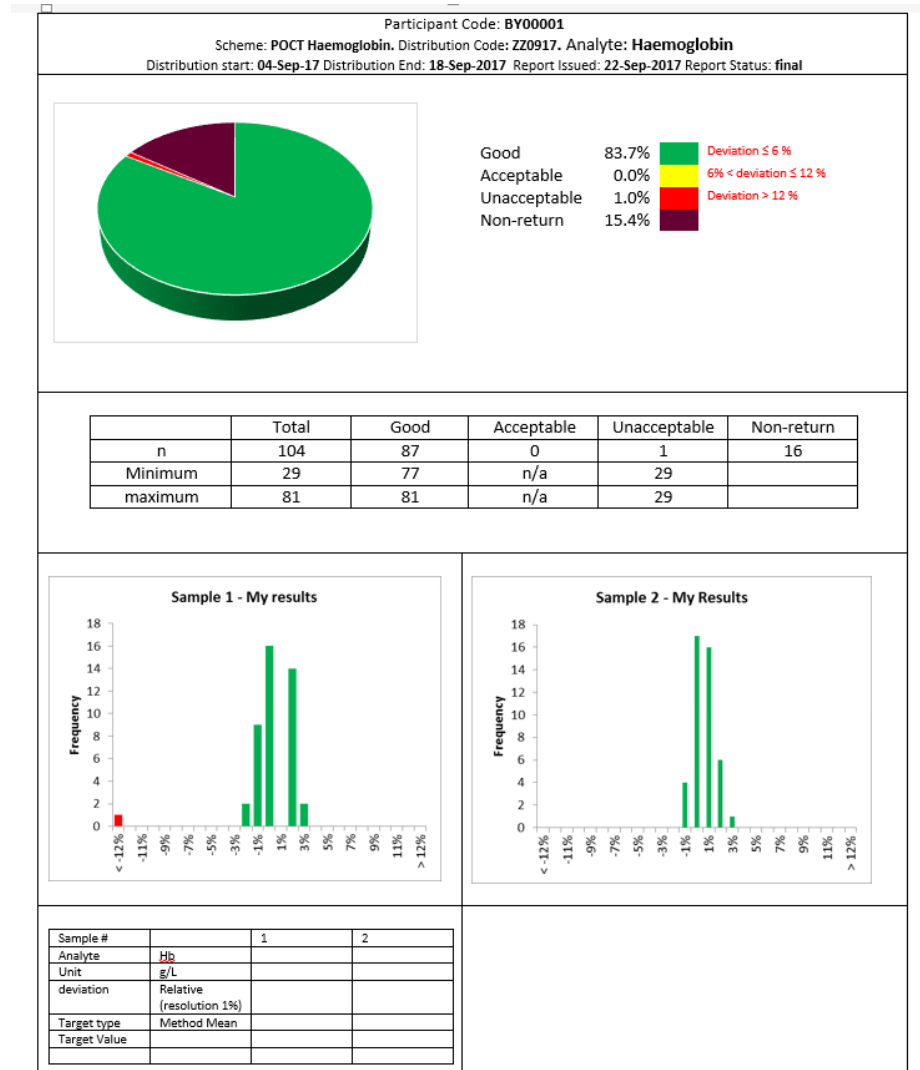
Simpler and clearer than previous graphs

Method Summary Table – top 10 methods displayed

		sample 1			sample 2			sample 3		
	Detection limit	Negative	Positive	Equivocal	Negative	Positive	Equivocal	Negative	Positive	Equivocal
Method 1 (n=51)	7	48	2	1	8	27	15	0	51	0
*Method 2 (n=16)	9	14	1	1	13	1	2	0	15	0
Method 3 (n=25)	7	25	0	0	0	24	1	0	25	0
Method 4 (n=30)	6	26	1	3	1	29	0	1	29	0
Method 5 (n=97)	7	92	3	2	2	90	5	0	97	0
Method 6 (n=12)	7	12	0	0	0	12	0	0	12	0
Method 7 (n=20)	7	18	2	0	0	19	1	0	20	0
Method 8 (n=4)	7	4	0	0	1	3	0	0	4	0
Method 9 (n=34)	7	31	1	2	5	26	3	1	33	0

method group for the instrument to which this report relates is highlighted in bold.

POCT Manager's overview report



All the existing reports from Cuesee website will be available but with improved formatting:

Overview report with link to reagent lot no.

Simplified report

No-results booked

Poor-performance report

Standard letters will also be made available:

Distribution letters

No results booked letter

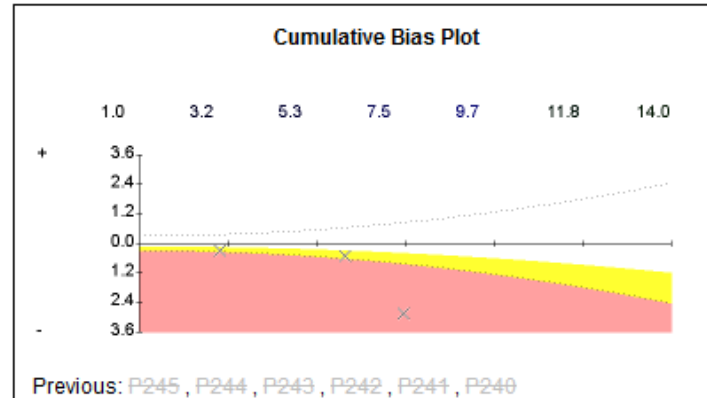
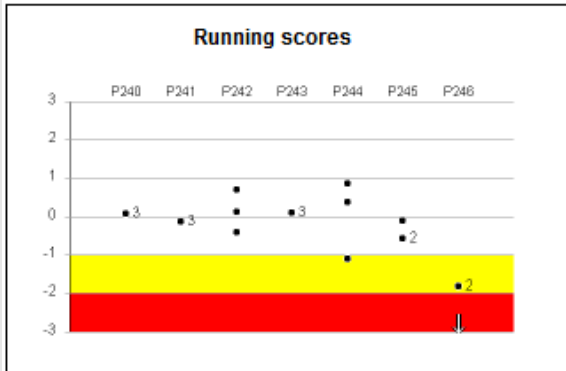
Poor performance letter

Other improved reports

Simplified Reports – PI scores and % poor PI added

Scheme: Blood Gas. Distribution Code: P246. Distribution Date: 21/09/15. Final Report Issued: 14/10/15				
pCO ₂ (kPa)	Sample 1	Sample 2	Sample 3	Sample 4
Reported Result	4.58	5.49	2.66	
Overall Mean	7.42	5.98	2.89	8.52
Method Mean: Cobas b123	7.46	6.03	2.98	8.38
Instrument Mean: Cobas b123	7.46	6.03	2.98	8.38
Your results are compared against	7.46	6.03	2.98	

Good
Acceptable
Unacceptable
Discuss with QC officer



Cumulative Submitted results

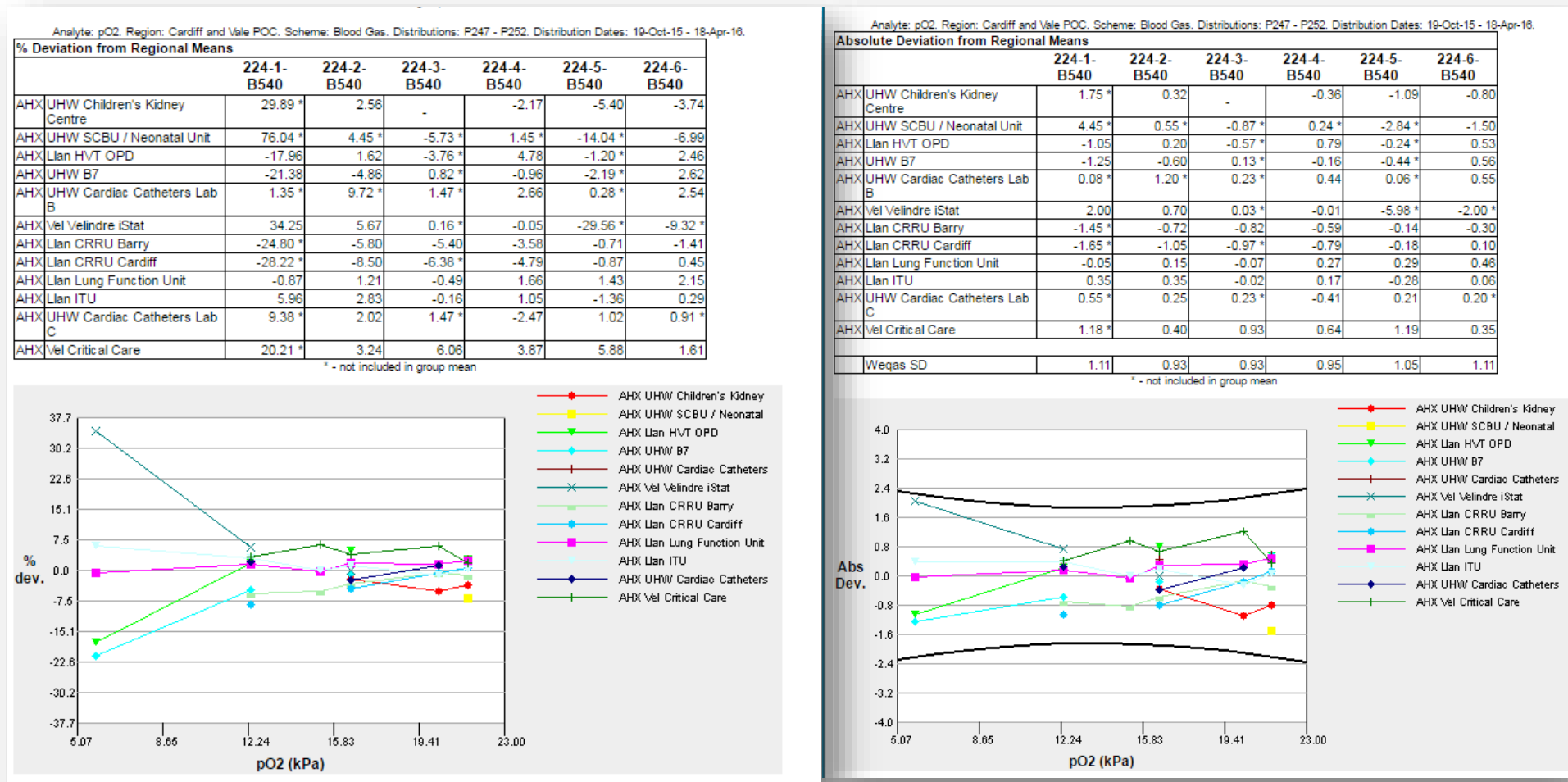
	P240	P241	P242	P243	P244	P245	P246
Sample 1	5.98	5.9	8.68	6.0	5.31	7.43	4.58
Sample 2	3.94	7.29	2.77	8.35	2.7	3.91	5.49
Sample 3	7.43	5.14	3.98	4.0	7.82	?	2.66
Sample 4	N/A	?	N/A	N/A	N/A	2.85	?

Key	
?	Analyte enrolled but no results returned
N/A	Not enrolled for this analyte

⚠ Performance Alert

Your results show a significant consistent bias. Please discuss your results with your EQA Officer

Regional report – improved graphics.



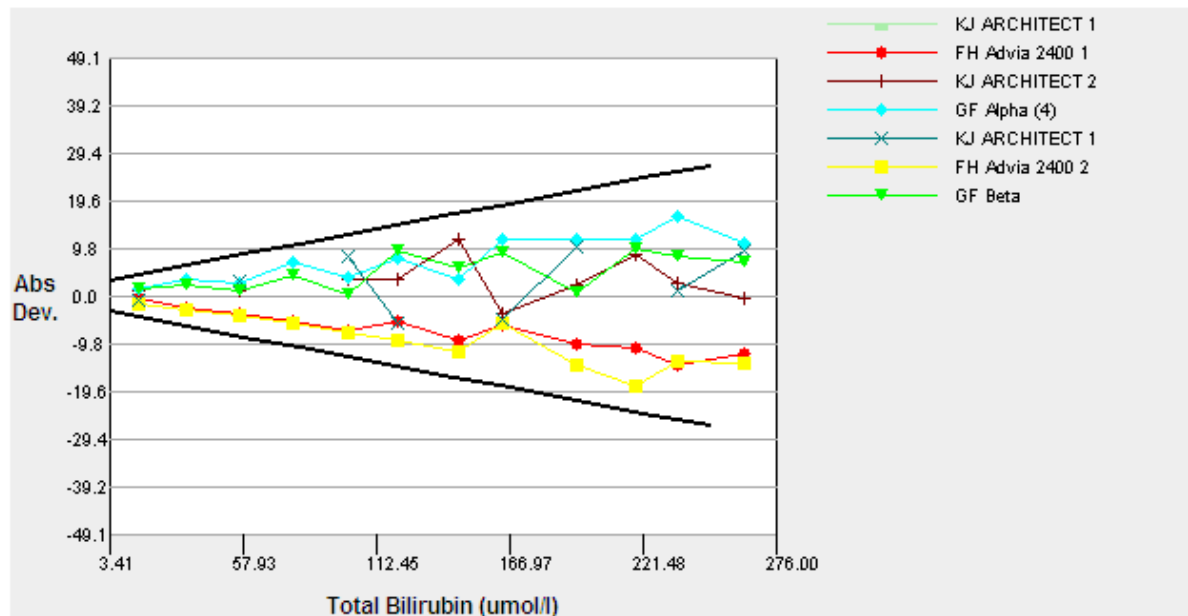
for all instruments in the group, deviation reports provide absolute and % deviation from the group mean on a per analyte basis

Available to print from your browser, or in PDF format to your email address

Regional report – available as a region/ group/ participant

Absolute Deviation from Regional Means		B291	B297	B300	B296	B301	B292	B293	B294	B295	B298	B299	B302
FH	Advia 2400 1	-0.59	-9.31	-10.89	-5.39	-14.48	-2.56	-3.67	-5.22	-7.38	-6.15	-10.04	-11.82
FH	Advia 2400 2	-1.92	-11.48	-18.52	-9.36	-13.35	-2.92	-4.20	-5.86	-7.84	-5.65	-14.51	-14.05
GF	Beta	1.21	5.82	9.58	9.14	8.08	2.24	1.13	4.21	0.06	8.95	0.72	6.72
GF	Alpha (4)	1.21	3.49	11.58	7.81	16.42	3.24	2.47	6.88	3.72	11.62	11.72	10.72
KJ	ARCHITECT 2	0.88	11.49	8.25	3.48	2.42	1.91 *	1.13	4.21 *	3.39	-3.88	2.06	-0.62
KJ	ARCHITECT 1	-0.79	6.49 *	1.25 *	-5.69	0.92	0.91 *	3.13	1.21 *	8.06	-4.88	10.06	9.05
KJ	ARCHITECT 1	3.21 *	16.49 *	9.25 *	16.81 *	-	-	-	-	-	-	-	-
Weqas SD		2.31	8.61	12.09	7.39	12.90	3.24	4.27	5.34	6.41	9.47	10.93	14.24

* - not included in group mean



A group can be set up as an individual lab code with multiple sections or with different lab codes and sections.

15189 Compliance Report

To include:

Measurement uncertainty – Between batch SD over length of batch.

Accuracy - average bias over length of batch against reference method or peer group

Traceability to high order reference method (if available)

Sigma Score where:

$$\delta = (\text{TAE} - \text{Average Bias}) / \text{between batch CV\%}$$

Provides between batch imprecision over length of batch – 6 to 12 months for all sections.

Lab Code: AHX , Section Name: Llan CRRU Barry. Scheme: Blood Gas. Distribution Range: P247 - P252

Analyte: pCO2 (kPa)

Method: ABL 80	224-1-B540	224-2-B540	224-3-B540	224-4-B540	224-5-B540	224-6-B540
Section Stats						
Mean reported results	8.62	7.58	5.96	5.16	3.99	2.77
SD reported results	0.41	0.43	0.13	0.09	0.34	0.25
CV(%) reported results	4.79	5.67	2.26	1.78	8.55	8.94
Number of results	3	3	2	3	3	3
Method Result Stats						
Mean method mean	8.75	7.59	6.32	5.18	4.22	2.92
Median CV	2.95	3.83	3.21	1.78	4.32	4.97
Overall Result Stats						
Median CV	1.80	1.90	1.48	1.90	1.78	2.09

