

Weqas
Unit 6, Parc Tŷ Glas
Llanishen, Cardiff, CF14 5DU

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EXTERNAL
QUALITY
ASSESSMENT



INTERNAL
QUALITY
CONTROL



REFERENCE
MEASUREMENT
SERVICES



EDUCATION &
TRAINING

Weqas

GLOBAL PROVIDER OF QUALITY
IN DIAGNOSTIC MEDICINE

Weqas Connect Reports

Sam Jones

Standard Quantitative Report

Participant Code:
Sample Reception
Laboratory Medicine Specimen Reception.

Pathology Department.

Weqas

Unit 6 Parc Ty Glas
Llanishen
Cardiff
United Kingdom
CF14 5DU
Tel: 02920 555555
Email: enquiries@weqas.com

Weqas

Programme: **Ammonia** • Distribution Code: **AM201**
Distribution Start: 22-Jul-2019 • Distribution End: 05-Aug-2019 • Report Issued: 14-Aug-2019 • Report Status: Final

Quantitative Analyte Data

This Distribution

Your % Poor P.I.	33%
Median All Participant % Poor P.I.	0%
97.5 th Centile % Poor P.I.	33%

Running P.I. analyte-sample Scores

Legend: Non-return (red), Not Scored (purple), Good (green), Acceptable (yellow), Poor (red)

P.I. Ranges

<1	Good
1-2	Acceptable
>2	Poor

P.I. Scores		
Location	(M) Integra	(P) Integra
Instrument Name	(M) Integra Roche Integra	(P) Integra Roche Integra
Instrument Serial #	NK	NK
Ammonia	Acceptable	Poor
Overall % poor P.I.	0%	67%
Overall % Non-return	0%	0%

P.I. Code	Meaning
N/A	Not enrolled for this analyte
NRR	Analyte enrolled but no results returned
N/S	This quantitative analyte not scored for this distribution

Please note: Method and Instrument Summary reports are available to download via the Lab Stats or 'Section Stats' menu. If you don't currently have interactive access, please contact WEQAS for a registration form on 02920 314750.

A user guide "How to interpret your report" is available to download as a PDF file from the resources area of our website at <https://www.weqas.com/resources>

***** Please note*****

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Distribution Specific Comment
There is no specific comment for this distribution.

No participant comments have been submitted for any instruments for this distribution.

Participant Code:
 Sample Reception
 Laboratory Medicine Specimen Reception,
 Pathology Department,

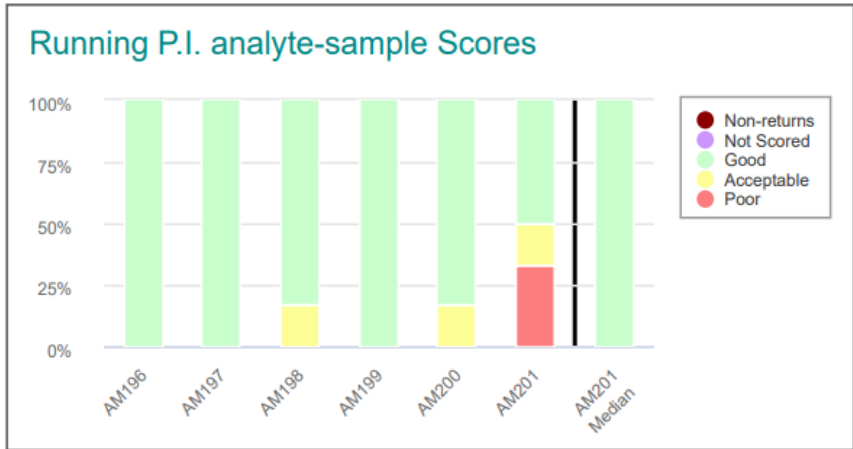


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Quantitative Analyte Data

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Median All Participant % Poor P.I.	0%
97.5 th Centile % Poor P.I.	33%



P.I. Ranges	
<1	Good
1-2	Acceptable
>2	Poor

P.I. Scores		
Location	(M) Integra	(P) Integra
Instrument Name	(M) Integra Roche Integra	(P) Integra Roche Integra
Instrument Serial #	N/K	N/K
Ammonia	Acceptable	Poor
Overall % poor P.I.	0%	67%
Overall % Non-return	0%	0%

P.I. Code	Meaning
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Distribution Specific Comment

There is no specific comment for this distribution.

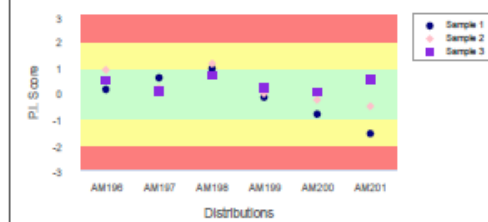
No participant comments have been submitted for any instruments for this distribution.

Ammonia $\mu\text{mol/L}$					
	Your reported result ($\mu\text{mol/L}$)		Method: GLDH	Instrument Model: Integra	Overall
Sample 1	154	Mean	178.23	178.60	171.95
		SD	11.42	4.10	15.73
		Uncertainty	1.242	1.937	1.461
		n	132	7	181
Sample 2	114	Mean	119.51	119.97	115.86
		SD	7.96	5.17	10.39
		Uncertainty	0.865	2.444	0.966
		n	132	7	181
Sample 3	66	Mean	62.23	62.38	60.75
		SD	5.64	3.53	5.90
		Uncertainty	0.619	1.800	0.551
		n	130	6	179

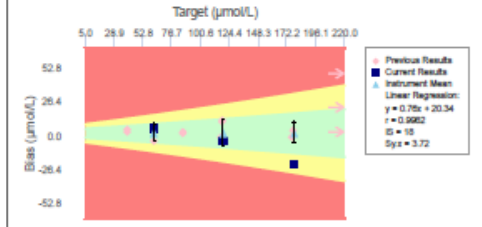
Scoring

Sample	1	2	3	Overall Performance
Target (Method Mean)	178.23	119.51	62.23	
Weqas TAE	30.13	21.54	13.84	
P.I.	-1.61	-0.51	0.54	Acceptable

Running P.I.



Bias (Absolute)



Bias (Relative %)



Precision

	AM196	AM197	AM198	AM199	AM200	This distribution: AM201
Sy,x	3.82	2.45	0.71	0.58	0.66	3.72
IS	1	3	0	0	0	18

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

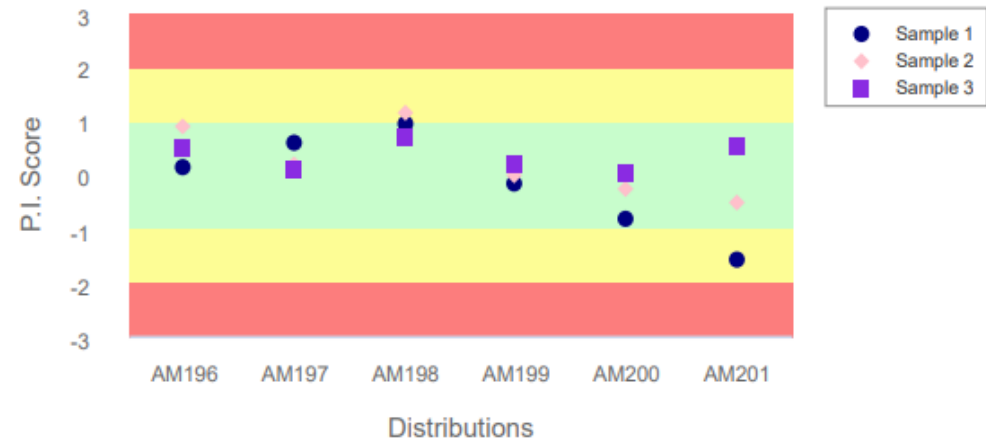
Participant Code: • **Location:** (M) Integra • **Analyser Name:** (M) Integra Roche Integra • **Serial #:** N/K
Programme: Ammonia • **Distribution Code:** AM201 • **Analyte:** Ammonia
 Distribution Start: 22-Jul-2019 • Distribution End: 05-Aug-2019 • Report Issued: 14-Aug-2019 • Report Status: Final
 Date Samples received: 23-Jul-2019 • Date of Analysis: 24-Jul-2019 • Operator Details: n/a • Storage Conditions: n/a

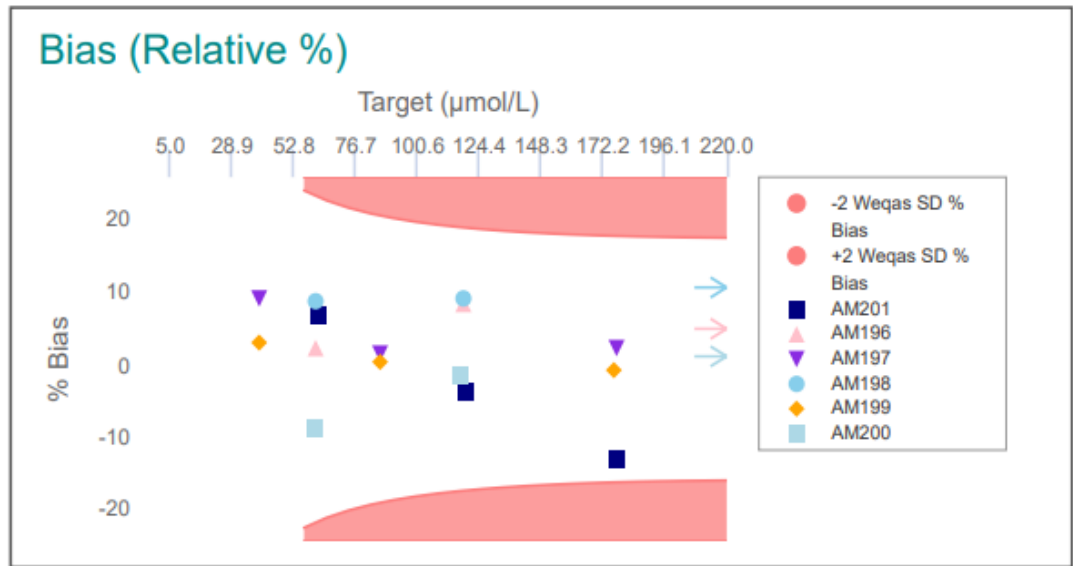
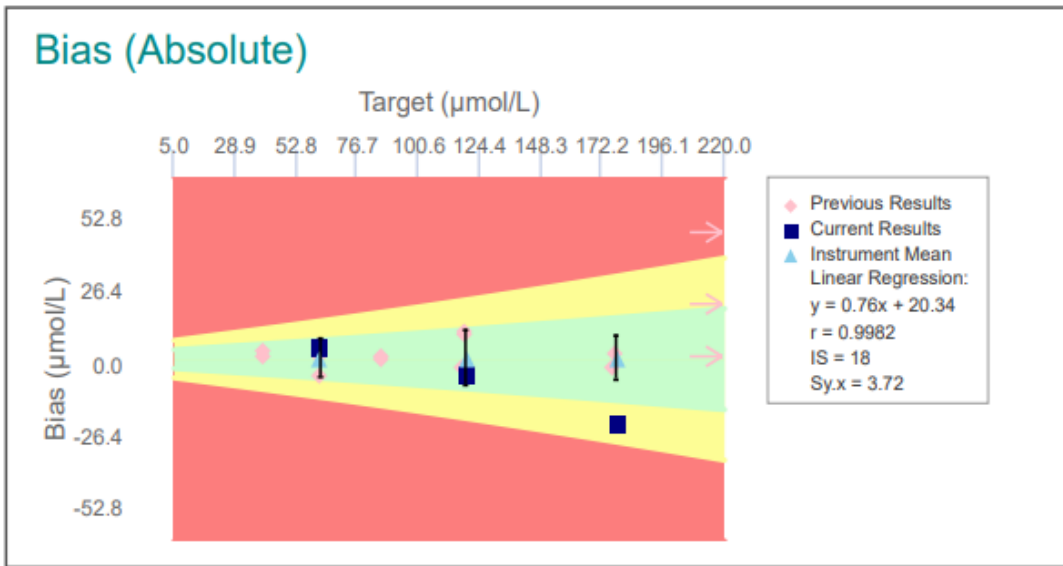
Ammonia $\mu\text{mol/L}$					
	Your reported result ($\mu\text{mol/L}$)		Method: GLDH	Instrument Model: Integra	Overall
Sample 1	154	Mean	178.23	178.60	171.95
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		n	132	7	181
Sample 2	114	Mean	119.51	119.97	115.86
		SD	7.96	5.17	10.39
		Uncertainty	0.866	2.444	0.966
		n	132	7	181
Sample 3	66	Mean	62.23	62.38	60.75
		SD	5.64	3.53	5.90
		Uncertainty	0.619	1.800	0.551
		n	130	6	179

Scoring

Sample	1	2	3	Overall Performance
Target: (Method Mean)	178.23	119.51	62.23	
Weqas TAE	30.13	21.54	13.84	
P.I.	-1.61	-0.51	0.54	Acceptable

Running P.I.





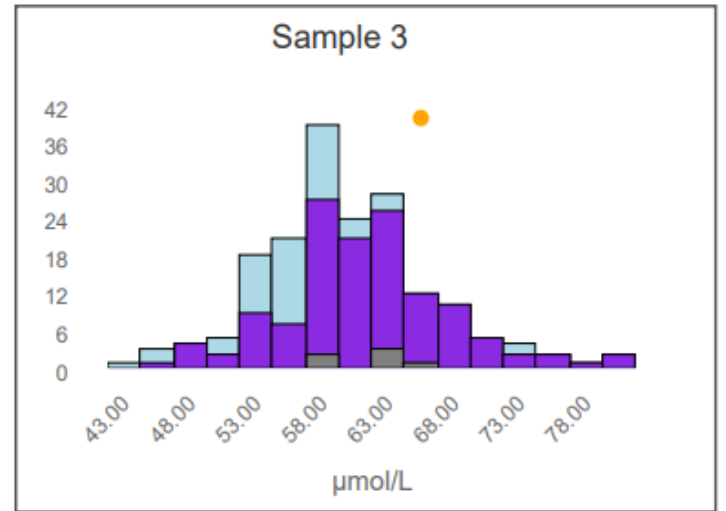
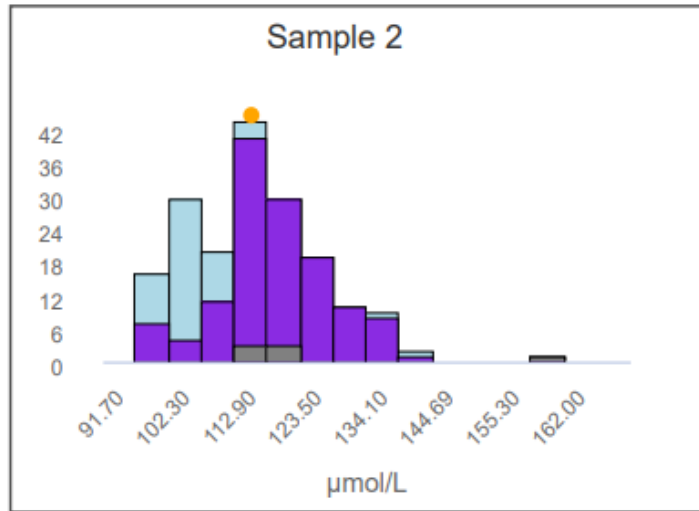
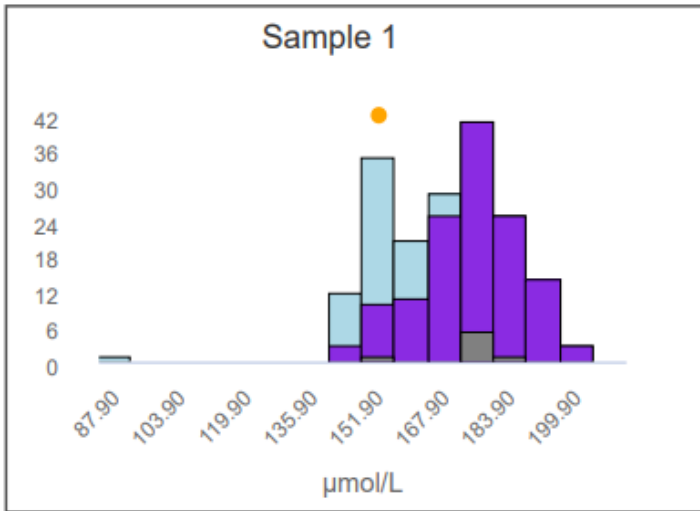
Precision

	AM196	AM197	AM198	AM199	AM200	This distribution: AM201
Sy.x	3.82	2.45	0.71	0.58	0.66	3.72
IS	1	3	0	0	0	18

Precision Key

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

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



■ All Results
 ■ My Method
 ■ My Instrument
 ● My Result

Method Summary

AM201	Sample 1		Sample 2		Sample 3	
Method Name	Mean	CV%	Mean	CV%	Mean	CV%
Alinity GLDH (n=2)	150.5	1.6	102.0	1.6	55.0	5.8
Architect GLDH (n=40)	156.4	3.9	106.3	3.3	57.3	5.4
Fuji Dri-Chem (n=2)	155.0	6.2	123.5	21.4	69.0	9.3
GLDH (n=132)	178.2	6.4	119.5	6.7	62.2	9.1
Vitros (n=5)	161.5	5.3	103.9	8.2	49.0	12.4

There are no Weqas or Participant supplied comments for Ammonia for this distribution.

Simplified Quantitative Reports

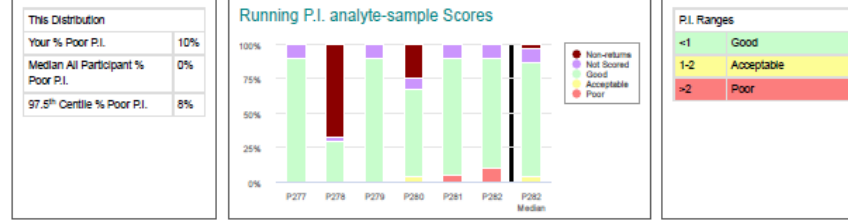
Participant Code:
Location: AICU 1
Instrument Serial Number: NIK
Instrument Name: AICU 1 Radiometer ABL 90 flex

Weqas

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Tel: 02920 555555
Email: enquiries@weqas.com
Programme Organiser: Mr Gareth Davies

Weqas

Programme: Blood Gas - Distribution Code: P282
Distribution Start: 21-Jan-2019 - Distribution End: 04-Feb-2019 - Report Issued: 13-Feb-2019 - Report Status: Final
Requested By: admin@weqas.com



P.I. Scores		
Location	AICU 1	
Instrument Name	AICU 1	Radiometer ABL 90 flex
Instrument Serial #	NIK	
[H+]	Good	
pCO2	Good	
pO2	Good	
Sodium	Good	
Potassium	Good	
Chloride	Good	
Ionized Calcium	Good	
Glucose	Poor	
Lactate	Good	
pH	NS	
Overall % poor P.I.	10%	
Overall % Non-return	0%	

P.I. Code	Meaning
N/A	Not enrolled for this analyte
NRR	Analyte enrolled but no results returned
NS	This quantitative analyte not scored for this distribution

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Distribution Specific Comment
There is no specific comment for this distribution.

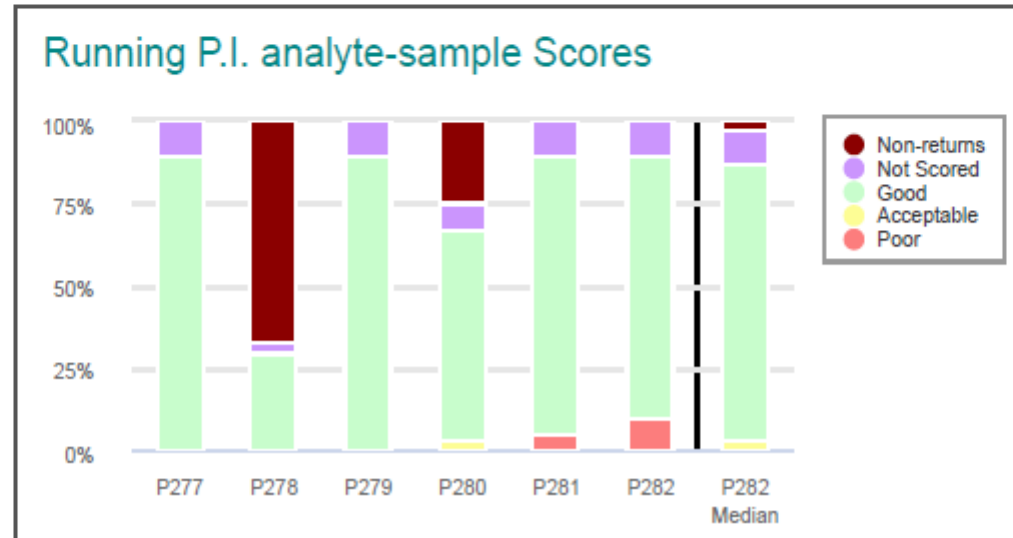
No participant comments have been submitted for any instruments for this distribution.

Participant Code:
 Location: AICU 1
 Instrument Serial Number: N/K
 Instrument Name: AICU 1 Radiometer ABL 90 flex

Unit 6 Parc Ty Glas
 Llanishen
 Cardiff
 United Kingdom
 CF14 5DU
 Tel: 02920 555555
 Email: enquiries@weqas.com

Programme: **Blood Gas** • Distribution Code: **P282**
 Distribution Start: 21-Jan-2019 • Distribution End: 04-Feb-2019 • Report Issued: 13-Feb-2019 • Report Status: Final
 Requested By: admin@weqas.com

This Distribution	
Your % Poor P.I.	10%
Median All Participant % Poor P.I.	0%
97.5 th Centile % Poor P.I.	8%



P.I. Ranges	
<1	Good
1-2	Acceptable
>2	Poor

P.I. Scores	
Location	AICU 1
Instrument Name	AICU 1 Radiometer ABL 90 flex
Instrument Serial #	N/K
[H+]	Good
pCO2	Good
pO2	Good
Sodium	Good
Potassium	Good
Chloride	Good
Ionized Calcium	Good
Glucose	Poor
Lactate	Good
pH	N/S
Overall % poor P.I.	10%
Overall % Non-return	0%

P.I. Code	Meaning
N/A	Not enrolled for this analyte
NRR	Analyte enrolled but no results returned
N/S	This quantitative analyte not scored for this distribution

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Distribution Specific Comment

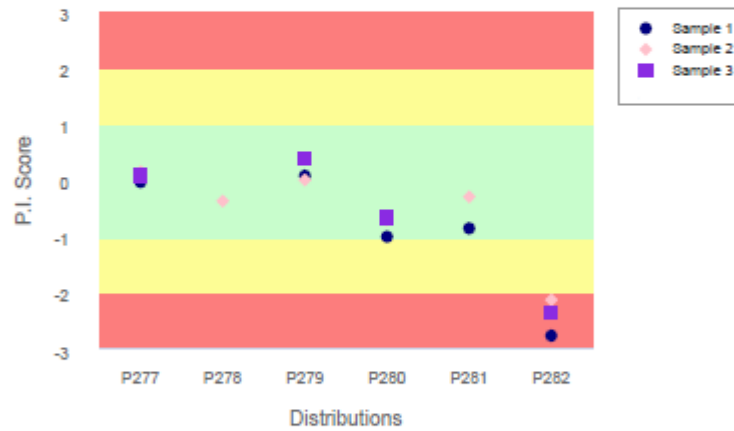
There is no specific comment for this distribution.

Participant Code: • Location: AICU 1() • Analyser Name: AICU 1() Radiometer ABL 90 flex • Serial #: N/K
 Programme: Blood Gas • Distribution Code: P282 • Analyte: Glucose
 Distribution Start: 21-Jan-2019 • Distribution End: 04-Feb-2019 • Report Issued: 13-Feb-2019 • Report Status: Final
 Date Samples received: 23-Jan-2019 • Date of Analysis: 24-Jan-2019 • Operator Details: n/a • Storage Conditions: Room Temperature

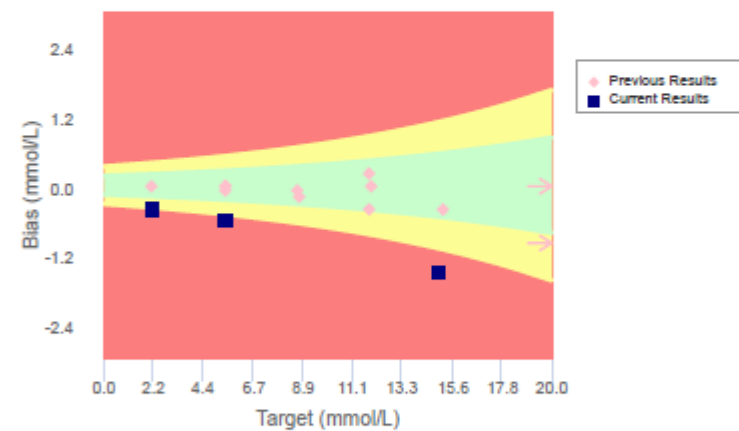
Glucose (mmol/L)			
	Sample 1	Sample 2	Sample 3
Your reported result (mmol/L)	13.5	1.8	4.9
Your results are scored against: (Method Mean)	15.02	2.21	5.5

Good
Acceptable
Poor – discuss with POCT Coordinator

Running Performance



Bias (Absolute)



Your overall performance for this analyte is: **Poor**

- You have at least two samples in this distribution with a poor score: |score| > 2
- Your results show a consistent bias.

Please discuss your results with your EQA office / POCT Co-ordinator

There are no Weqas or Participant supplied comments for Glucose for this distribution.

Instrument Report

Distribution Code: **CRP70**

Distribution Date: **22-Oct-2019**

Analyte: **All**

Method: **All**

Manufacturer: **All**

Instrument Model: **All**

Kit: **All**

CRP

Key

red	Outside Expected Range
*	Method Transformed

Participant Code	Location Name	Instrument Name	Instrument Serial Number	1	2	3
AAE	Main Lab	501	AA18	117.14	12.57	0.3
AAE	Main Lab		AA18Y			
AAH	Biochemistry		AB11	113.1	12.8	0.4
AAQ	Biochemistry 1		C40	121.074	13.853	0.535
AAQ	Biochemistry 2		C401	118.331	13.805	0.489
ABS	DxC		33	116.9	13.7	0.7
ACA	Biochemistry Cobas		AB12C	114.05	12.59	0.35
AEB	Core Chemistry 1		AO125	106.5	12.2	<1
AEB	Core Chemistry 2		AO12	101.5	13.1	<1
AEB	Core Chemistry 3		AO18	110.4	13.3	<1
AFA	Satellite Lab	Cobas C Module	184	106	13	<1
AFA	Satellite Lab 2	Cobas C Module	AA1298-16	106	12	<1
AFO	hsCRP		AA095			
AFO	Pathology (Cobas alpha)		AA0	118.12	12.01	<5

Overall	1	2	3
Mean	114.449	13.098	0.414
SD	6.169	0.775	0.091
Uncertainty	1.0592	0.133	0.0216
Number	53	53	28
Reference Value			
Nonscoring Reference Value			

Method	Instrument	Kit		1	2	3		
Immunoturbidimetric			Mean	114.449	13.098	0.414		
			SD	6.169	0.775	0.091		
			Uncertainty	1.0592	0.133	0.0216		
			Number	53	53	28		
	Abbott Architect			Mean	119.703	13.829	0.502	
				SD	2.199	0.038	0.053	
				Uncertainty	1.9441	0.034	0.0468	
				Number	2	2	2	
		Abbott CAR VARIO 6K26-41			Mean	119.703	13.829	0.502
					SD	2.199	0.038	0.053
					Uncertainty	1.9441	0.034	0.0468
					Number	2	2	2
	Beckman Coulter AU400			Mean	121.675	13.8	0.55	
				SD	0.535	0.262	0.08	
				Uncertainty	0.3343	0.1637	0.0709	
				Number	4	4	2	
Beckman Coulter CRP Latex OSR6199				Mean	121.675	13.8	0.55	
				SD	0.535	0.262	0.08	
				Uncertainty	0.3343	0.1637	0.0709	
				Number	4	4	2	

Qualitative Reports

Participant Code: **BY00001** • Location: <###20 Characters##> • Analyser Name: <15 Characters> • Serial #: **AB00045237A**
 Scheme: **SchemeName**, Distribution Code: **ZZ0518**, **Analyte: AnalyteName**
 Distribution start: **04-May-2018** Distribution End: **14-May-2018** Report Issued: **21-May-2018** Report Status: **final**
 Date samples received: **05-May-2018** Date of analysis: **12-May-2018** Operator Details: **n/a** Storage Conditions: **RoomTemp**.

Running PI

P.I. Key

- Incorrect Response
- Correct Response
- Sample Non-scored
- NRS – no response submitted

Method	Instrument	Sample 1	Sample 2	Sample 3
MethodName 2	InstrumentName	Positive	Positive	Positive
Correct Interpretation**		Negative	Negative	Positive
Preparation information		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%

Sample 1

Sample 2

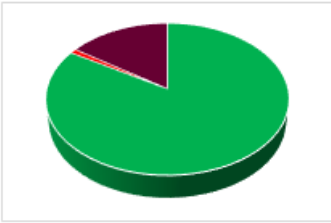
Sample 3

- other methods
- other instruments your method
- Your instrument, your method
- + Your response
-
 Correct response

	Detection limit	sample 1			sample 2			sample 3		
		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=18)	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

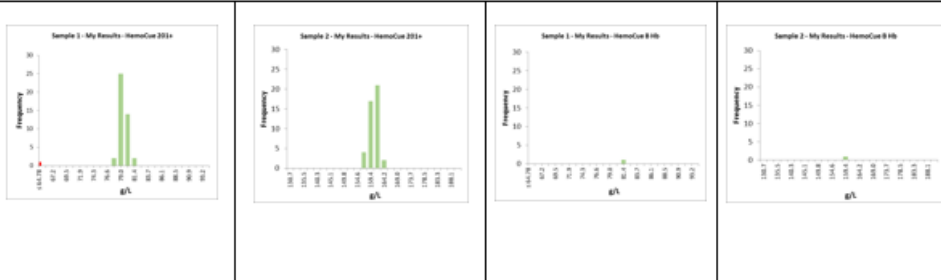
Participant Code:

Scheme: POCT Haemoglobin, Distribution Code: ZZ0917, Analyte: Haemoglobin
 Distribution start: 04-Sep-17 Distribution End: 18-Sep-2017 Report Issued: 22-Sep-2017 Report Status: final



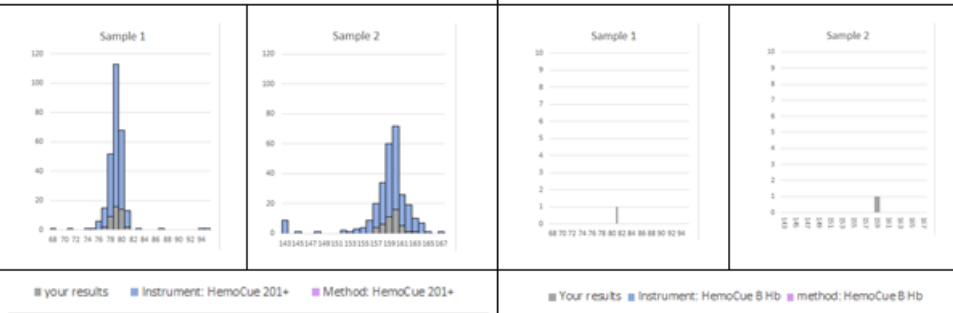
	overall		Sample 1		Sample 2	
	n	%	n	%	n	%
Good	87	83.7	43	82.7	44	84.6
Acceptable	0	0.0	0	0.0	0	0.0
Poor	1	1.0	1	1.9	0	0.0
Non-return	16	15.4	8	15.4	8	15.4
Non-Scored	0	0.0	0	0.0	0	0.0
Total	104		52		52	

POCT Co-ordinators Report

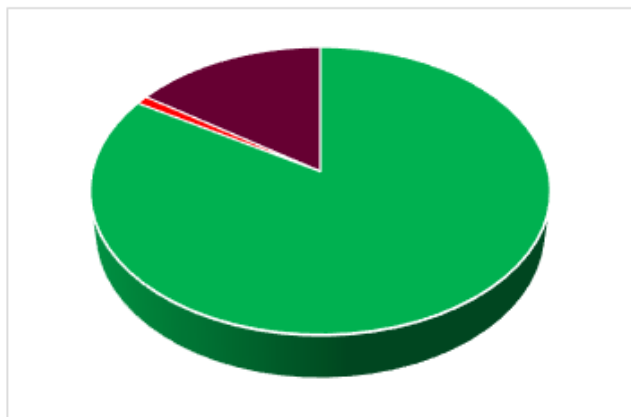


Method	HemoCue 201+			
Target Value Type	Method Mean			
	Sample 1		Sample 2	
Target Value	79.0		159.4	
	My results	Method	My results	Method
mean	77.9	79.0	159.4	159.4
SD	7.6	1.2	1.3	2.1
Uncertainty	1.2	0.1	0.2	0.2
n	43	275	43	272

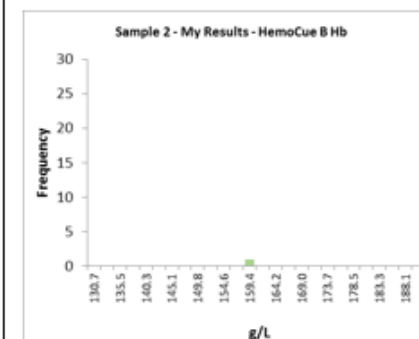
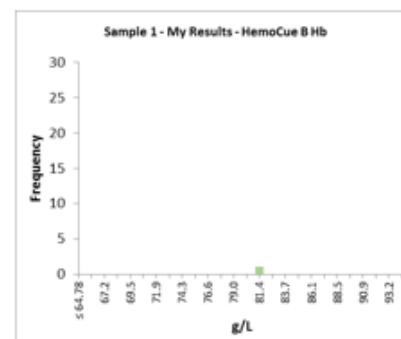
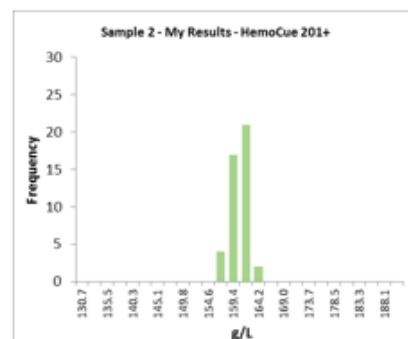
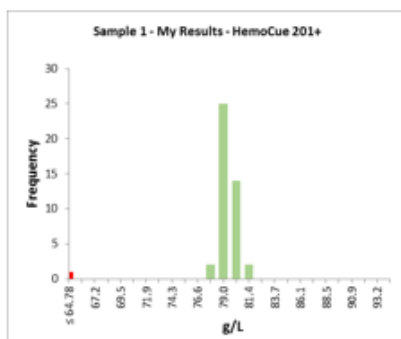
Method	HemoCue B Hb			
Target Value Type	Method Mean			
	Sample 1		Sample 2	
Target Value	79.0		159.4	
	My results	Method	My results	Method
mean	81.0	81.0	159.0	159.0
SD	0	0	0.0	0.0
Uncertainty	0	0	0.0	0.0
n	1	1	1	1



Weqas supplied comment for Haemoglobin:
 There is no comment for Haemoglobin for this distribution

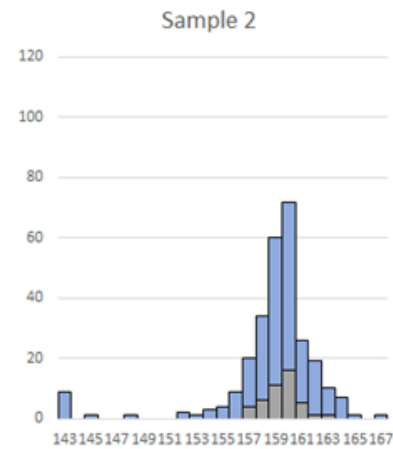
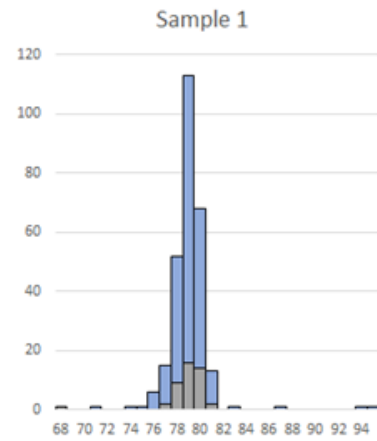


	overall		Sample 1		Sample 2	
	n	%	n	%	n	%
Good	87	83.7	43	82.7	44	84.6
Acceptable	0	0.0	0	0.0	0	0.0
Poor	1	1.0	1	1.9	0	0.0
Non-return	16	15.4	8	15.4	8	15.4
Non-Scored	0	0.0	0	0.0	0	0.0
Total	104		52		52	



Method	<u>HemoCue 201+</u>			
Target Value Type	Method Mean			
	Sample 1		Sample 2	
Target Value	79.0		159.4	
	My results	Method	My results	Method
mean	77.9	79.0	159.4	159.4
SD	7.6	1.2	1.3	2.1
Uncertainty	1.2	0.1	0.2	0.2
n	43	275	43	272

Method	<u>HemoCue B Hb</u>			
Target Value Type	Method Mean			
	Sample 1		Sample 2	
Target Value	79.0		159.4	
	My results	Method	My results	Method
mean	81.0	81.0	159.0	159.0
SD	0	0	0.0	0.0
Uncertainty	0	0	0.0	0.0
n	1	1	1	1



■ your results ■ Instrument: HemoCue 201+ ■ Method: HemoCue 201+



■ Your results ■ Instrument: HemoCue B Hb ■ method: HemoCue B Hb

Weqas supplied comment for Haemoglobin:
There is no comment for Haemoglobin for this distribution