

Birmingham Quality

UK NEQAS for Urinary Catecholamines

Laboratory :

Distribution : 185

Date : DD-MMM-YYYY

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Feedback

Quality Manager  
Pathology Laboratory  
Biochemistry Department  
Town  
County  
Postcode

This Scheme is essentially web-based. We can alert you to information regarding the Scheme via email. The e-mail address (or addresses) we are currently using to contact your laboratory is shown below in red. If no e-mail address is displayed or the information shown is incorrect, please email us with an appropriate contact e-mail address as soon as possible, using the word 'feedback' in the title line.

Based on the date information you have provided, the transit time from specimen dispatch [ ] to receipt [ ] was day(s), and the subsequent time to analysis [ ] in your laboratory was day(s). (Missing values indicate dates not provided. "0 days" represents same day).

Any comments you made to us are shown below and have been acted upon where necessary

Any specific comments applicable only to laboratory are shown below

Any general comments applicable to all laboratories are shown below

Online return of results is compulsory

You have until the close of Distribution 186 to submit/request changes to methods, or to submit/request late or amended result

Report authorised on Thursday 5 June 2015:

Finlay MacKenzie

Director, UK NEQAS for Urinary Catecholamines

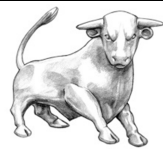


7860

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UK NEQAS  
International Quality Expertise

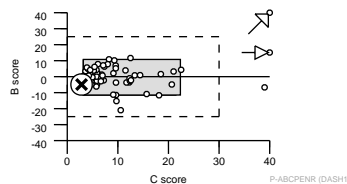
Birmingham Quality is proud to offer EQA services that adhere to the Code of Practice and have the badge of quality of UK NEQAS



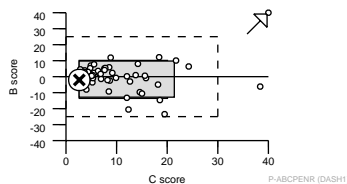
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Performance Summary Icons (click graph for details)

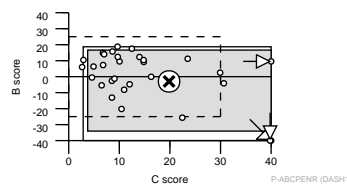
Metadrenaline



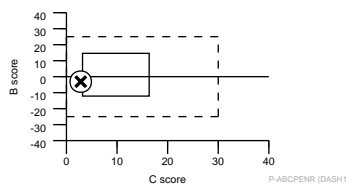
Normetadrenaline



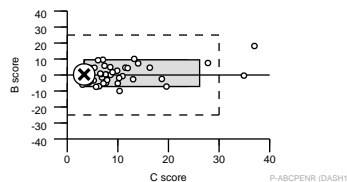
3-methoxytyramine



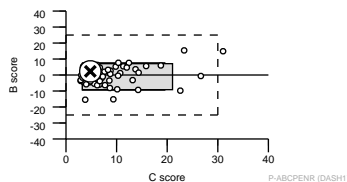
VMA [HMMA]



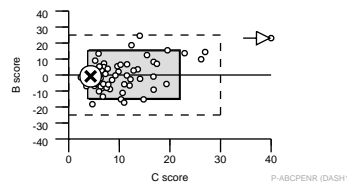
HVA



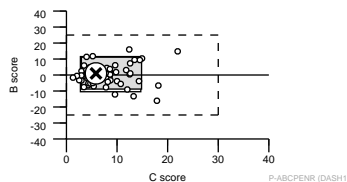
Noradrenaline



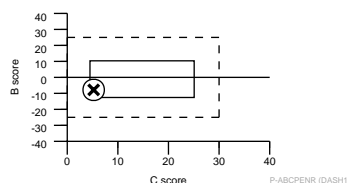
Adrenaline

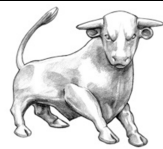


Dopamine



5HIAA





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**Analytical Performance over the last 6 months (rolling time window of 6 distributions)**

All our time periods are 'rolling' to give you current information.

You may wish to keep you own log of Calendar Year or Financial Year time points if you require 'year-end' statements for your own internal use.

Any analytes with out of consensus performance will be highlighted in red and can be clicked for further details.

You have out of consensus performance for:	<i>None</i>		
You have in consensus performance for:	Metadrenaline	VMA [HMMA]	Adrenaline
	Normetadrenaline	HVA	Dopamine
	3-methoxytyramine	Noradrenaline	5HIAA
You have no performance data for:	<i>None</i>		

**Participation and Return Rates**

This scheme cycle is notionally every four weeks.

Analytically, we assess you over a six month time window (6 Distributions).

For return rates, late and amended results we assess you over a twelve month period (12 distributions).

	Distributions	Rating
Participation	12 distributions out of a possible 12	Satisfactory
Late Returns	0 distributions from the last 12	Satisfactory
Amendments	1 distribution accepted from the last 12	Satisfactory

**Analytical Performance for specimens from distribution 185 only**

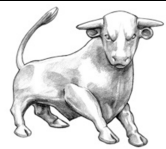
You can judge, in association with your IQC and other QA measures, if your current performance is a blip or part of a trend.

Out of consensus for at least one specimen for:	<i>None</i>		
In consensus for all specimens for:	Metadrenaline	HVA	Dopamine
	Normetadrenaline	Noradrenaline	5HIAA
	VMA [HMMA]	Adrenaline	
You have no specimen data for:	<i>None</i>		
You are not registered for:	<i>None</i>		

The new Participation Summary page is an exciting new feature which we hope you will like. It is currently in prototype mode but will ultimately expand into having the Interpretative analytes as well as the existing 'numerical' analytes listed and will contain turnaround graphs etc., too.

For the moment it would be helpful if you could check the accuracy of the data presented, particularly the return-rate elements.

Many thanks, Finlay



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# UK NEQAS for Urinary Catecholamines

Laboratory :

Distribution : **185**

Date : DD-MMM-YYYY

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## Distribution Summary

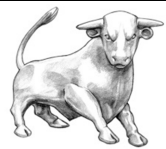
If your laboratory is outside of the acceptable limits of performance for any its rolling time-window scores (A, B or C scores), this will be indicated by a red traffic light symbol. It is the responsibility of the laboratory to undertake an internal investigation to establish the underlying cause and put in place corrective and preventive action. Please do not wait to receive a formal notification of performance from the Scheme Organiser or the National Quality Assurance Advisory Panel (NQAAP) before logging the non-conformity and, where necessary, acting upon the data contained in your report. A green traffic light merely reflects that your laboratory is performing as well as the state-of-the-art allows; it does not necessarily mean that your assay / laboratory performance is good enough clinically.

The urine volume has been assumed to be 1.0L, collected over a 24h period, to avoid there being confusion between those laboratories that report in units/L and those that report in units/24h.

Please do not hesitate to contact us if you have any clinical specimens which you could provide for us to distribute through the scheme.

Specimen	Pool	Result	Target	Specimen %bias	A score	B score	C score	A	B	C	
Metadrenaline (umol/24h)	185A	C337	2.53	2.61	-3.0 <span style="color: green;">◆</span>	36	-4.9	2.8	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	1.41	1.47	-4.0 <span style="color: green;">◆</span>						
	185C	C339	0.28	0.346	-19.1 <span style="color: orange;">▼</span>						
Normetadrenaline (umol/24h)	185A	C337	0.55	0.533	+3.1 <span style="color: green;">◆</span>	19	-2.1	2.6	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	1.75	1.73	+1.3 <span style="color: green;">◆</span>						
	185C	C339	2.99	3.04	-1.7 <span style="color: green;">◆</span>						
3-methoxytyramine (umol/24h)	185A	C337	0.32	0.33	-2.8 <span style="color: green;">◆</span>	120	-3.0	19.8	<span style="color: yellow;">●</span> ↗	<span style="color: green;">●</span> ↗	<span style="color: green;">●</span> ↔
	185B	C338	0.36	0.32	+11.9 <span style="color: green;">◆</span>						
	185C	C339	0.32	0.33	-4.4 <span style="color: green;">◆</span>						
VMA [HMMA] (umol/24h)	185A	C337	7.6	8.45	-10.1 <span style="color: green;">◆</span>	40	-3.1	2.8	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	31.6	31.5	+0.3 <span style="color: green;">◆</span>						
	185C	C339	54.9	53.6	+2.4 <span style="color: green;">◆</span>						
HVA (umol/24h)	185A	C337	58.7	58	+1.1 <span style="color: green;">◆</span>	28	+0.3	3.3	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	36.3	35	+3.7 <span style="color: green;">◆</span>						
	185C	C339	10.81	11.2	-3.3 <span style="color: green;">◆</span>						
Noradrenaline (nmol/24h)	185A	C337	120.9	120	+0.4 <span style="color: green;">◆</span>	39	+2.3	4.8	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	221.1	210	+5.5 <span style="color: green;">◆</span>						
	185C	C339	318.1	301	+5.7 <span style="color: green;">◆</span>						
Adrenaline (nmol/24h)	185A	C337	240.1	240	-0.2 <span style="color: green;">◆</span>	22	-0.8	4.3	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	132.6	135	-1.7 <span style="color: green;">◆</span>						
	185C	C339	27.9	33.2	-15.9 <span style="color: orange;">▼</span>						
Dopamine (nmol/24h)	185A	C337	1161	1140	+1.9 <span style="color: green;">◆</span>	50	+1.0	5.8	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	3248	3087	+5.2 <span style="color: green;">◆</span>						
	185C	C339	659.6	626	+5.4 <span style="color: green;">◆</span>						
5HIAA (umol/24h)	185A	C337	15.4	15.9	-3.3 <span style="color: green;">◆</span>	68	-7.8	5.2	<span style="color: green;">●</span> ↗	<span style="color: green;">●</span> ↔	<span style="color: green;">●</span> ↔
	185B	C338	43.0	43.9	-2.0 <span style="color: green;">◆</span>						
	185C	C339	70.7	72	-1.8 <span style="color: green;">◆</span>						

Specimens for Distribution 186 will be dispatched on Tuesday 9 June 2015, results are due back in Birmingham by, notionally, 23:59 on Tuesday 30 June 2015. If we have entered your result as "OMIT" , it is because the numerical value we obtained from you was implausible for that analyte. If we entered your result as "XPL" , it is because you did not report a numerical value for that analyte, but you did produce an explanation as to why a result was not provided.



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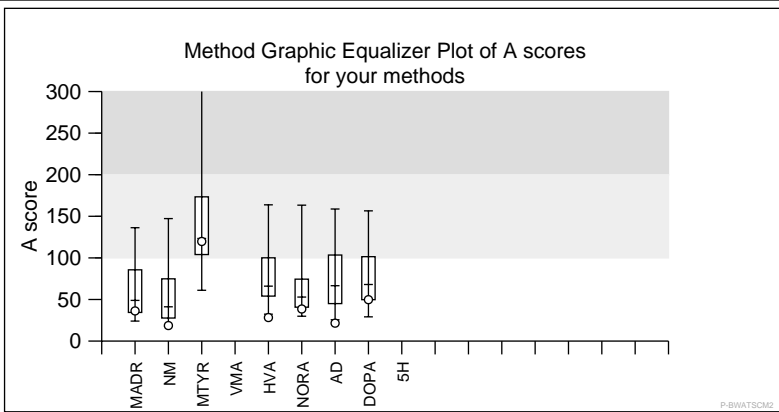
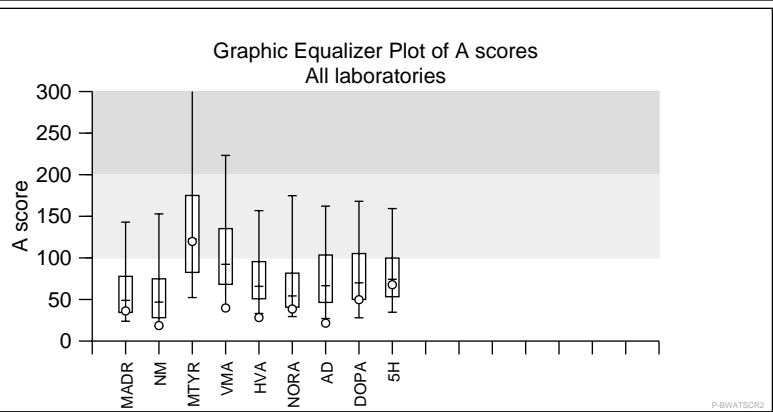
Method Summary

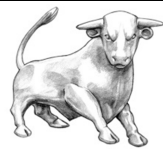
Though our usual approach is listed below, for this Scheme for the time being, we will assume that you are using an HPLC system with electrochemical detection, unless you tell us to the contrary.

To correctly assign you to a method we require the following pieces of information for each analyte that you measure:

- [1] The Manufacturer and model number of the Analyser
[2] The Manufacturer and kit product/catalogue number of the reagent used specifying 'method principle', if we breakdown data by method principle
[3] The Manufacturer and kit product/catalogue number of the calibrator used
[4] A confirmation that you are using the 'kit' according to the manufacturer's instructions including using their calibrator values with their calibrator (if you are not using the system according to the manufacturer's instructions you will be classed as an in-house user within that method principle)

Table with 7 columns: Analyte, Method Principle, Your Method, Units, A score with trend arrow, Method median A score, All lab median A score. Rows include Metadrenaline, Normetadrenaline, 3-methoxytyramine, VMA [HMMA], HVA, Noradrenaline, Adrenaline, Dopamine, and 5HIAA.



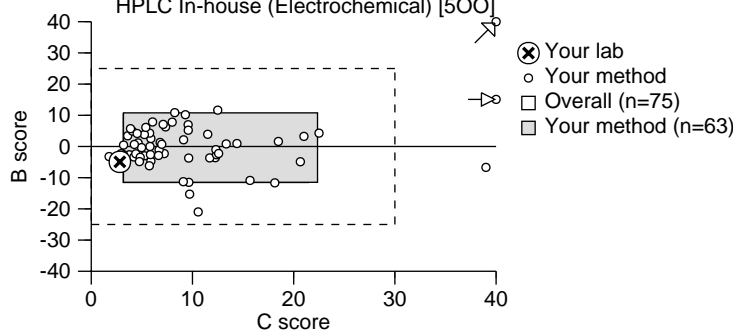


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## Cumulative Summary

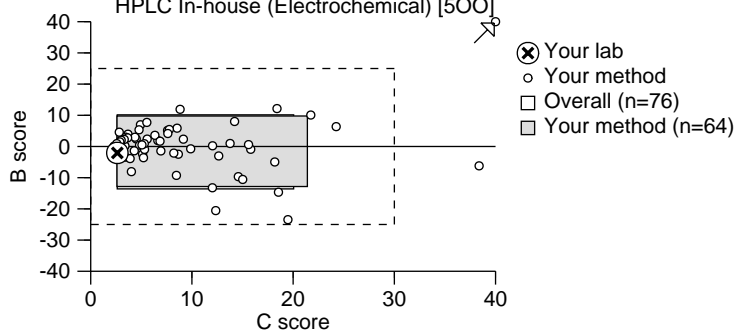
Metadrenaline B score is -4.9 and C score is 2.8

HPLC In-house (Electrochemical) [500]



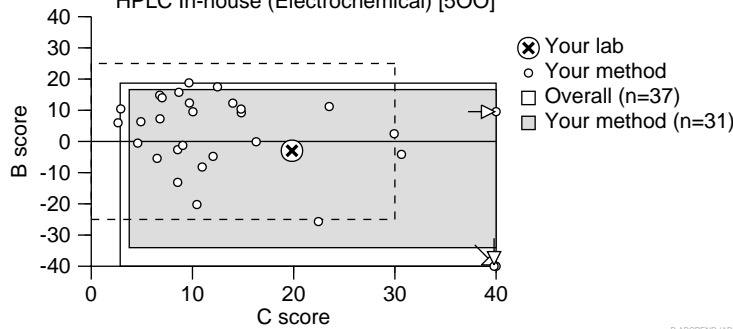
Normetadrenaline B score is -2.1 and C score is 2.6

HPLC In-house (Electrochemical) [500]



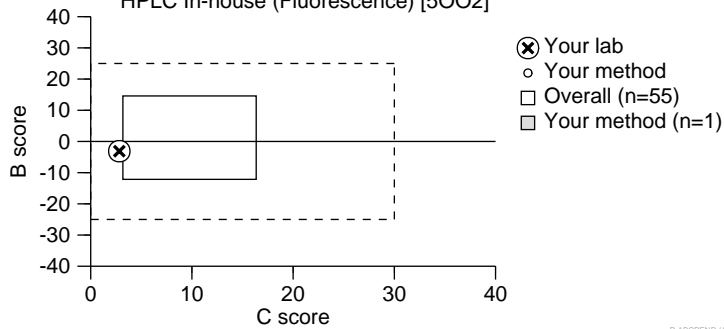
3-methoxytyramine B score is -3.0 and C score is 19.8

HPLC In-house (Electrochemical) [500]



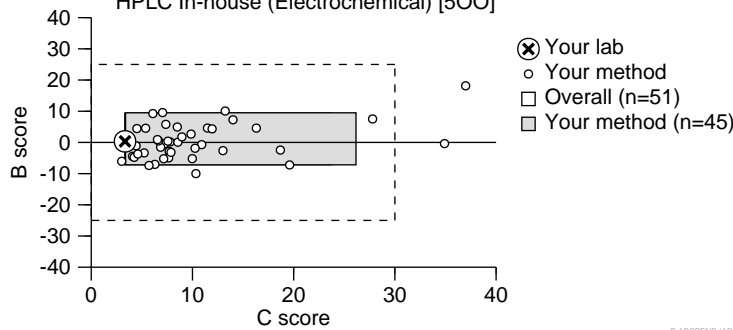
VMA [HMMA] B score is -3.1 and C score is 2.8

HPLC In-house (Fluorescence) [5002]



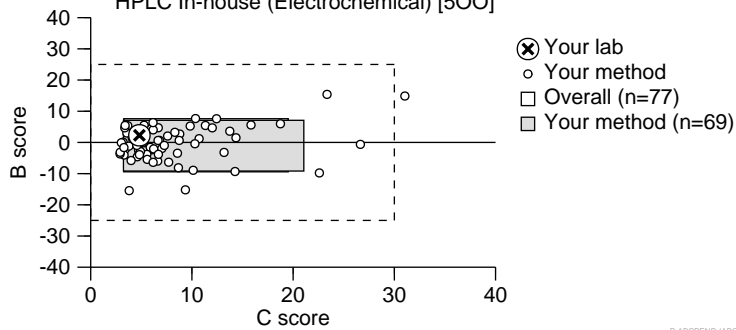
HVA B score is +0.3 and C score is 3.3

HPLC In-house (Electrochemical) [500]



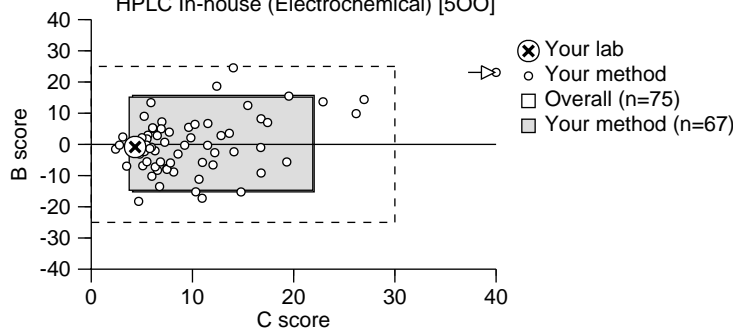
Noradrenaline B score is +2.3 and C score is 4.8

HPLC In-house (Electrochemical) [500]



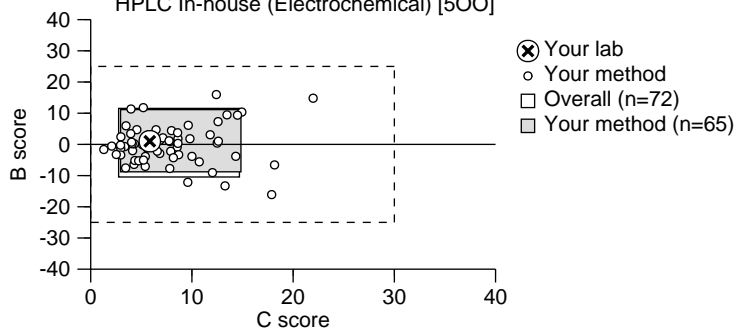
Adrenaline B score is -0.8 and C score is 4.3

HPLC In-house (Electrochemical) [500]



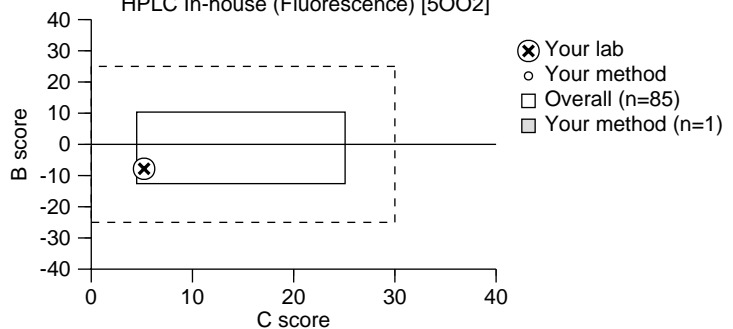
Dopamine B score is +1.0 and C score is 5.8

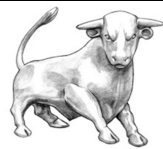
HPLC In-house (Electrochemical) [500]



5HIAA B score is -7.8 and C score is 5.2

HPLC In-house (Fluorescence) [5002]





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Spec.	Pool	Pool description / Treatments / Additions
185A	C337	Spiked normal urine, 2.4 umol/L added
185B	C338	Spiked normal urine, 1.2 umol/L added
185C	C339	No analyte added

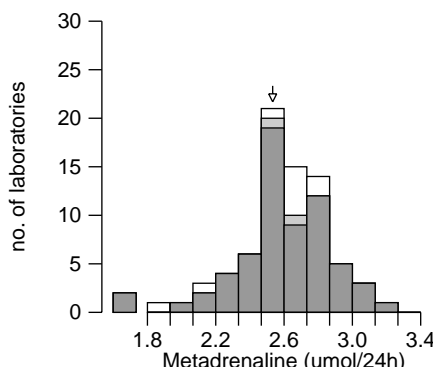
- All methods
- HPLC
- In-house (Electrochemical) [500]

Your A score is 36 ↔  
 Your B score is -4.9 ↔  
 Your C score is 2.8 ↔

The A limit is 200  
 The B limit is +/- 25.0  
 The C limit is 30.0

### Specimen : 185A

	n	Mean	SD	CV(%)
All methods [ALTM]	76	2.61	0.24	9.4
HPLC	66	2.61	0.24	9.2
BioRad [5BX]	2	2.60		
In-house (Electrochemical) [500]	64	2.61	0.25	9.5
Mass Spectrometry	10	2.60	0.25	9.4
In-house [600]	10	2.60	0.25	9.4



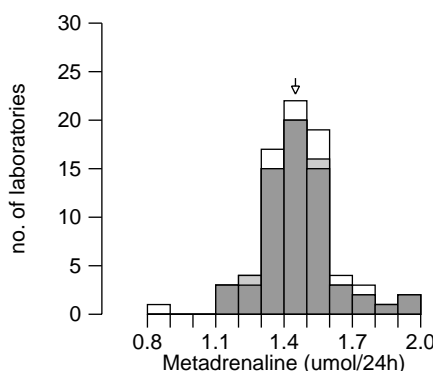
Your result 2.53  
 Target value (ALTM) 2.61  
 Standard Uncertainty 0.037

Your specimen:  
 %bias -3.0 ◆  
 Accuracy Index 22

Method Principle mean [GLTM] 2.61  
 Method mean [MLTM] 2.61

### Specimen : 185B

	n	Mean	SD	CV(%)
All methods [ALTM]	76	1.47	0.14	9.7
HPLC	66	1.46	0.13	9.2
BioRad [5BX]	2	1.40		
In-house (Electrochemical) [500]	64	1.47	0.14	9.4
Mass Spectrometry	10	1.49	0.11	7.7
In-house [600]	10	1.49	0.11	7.7



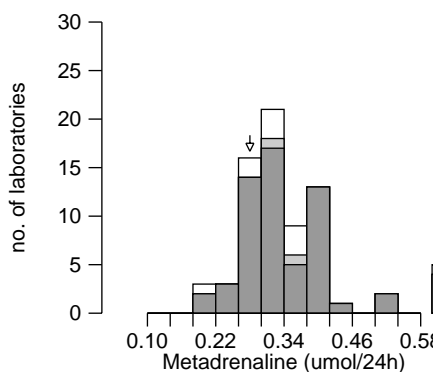
Your result 1.41  
 Target value (ALTM) 1.47  
 Standard Uncertainty 0.022

Your specimen:  
 %bias -4.0 ◆  
 Accuracy Index 29

Method Principle mean [GLTM] 1.46  
 Method mean [MLTM] 1.47

### Specimen : 185C

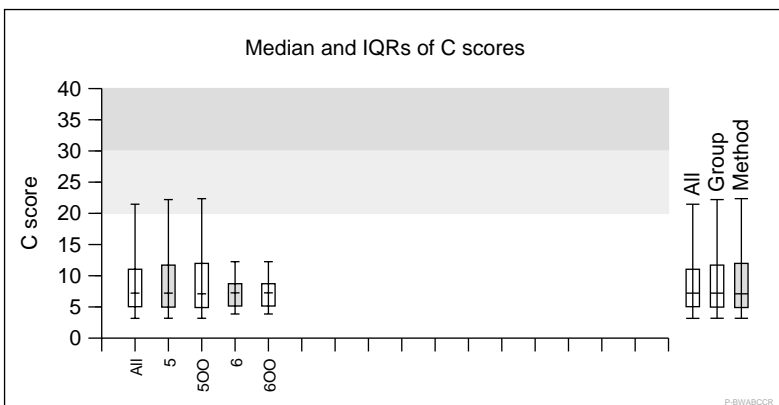
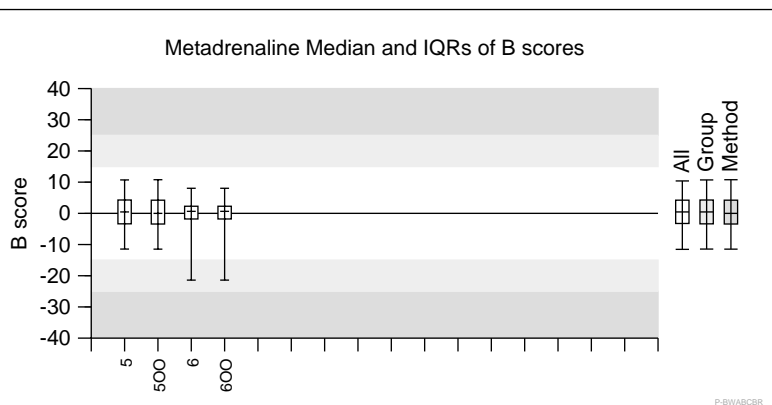
	n	Mean	SD	CV(%)
All methods [ALTM]	73	0.346	0.078	22.5
HPLC	63	0.340	0.068	20.0
BioRad [5BX]	2	0.332		
In-house (Electrochemical) [500]	61	0.345	0.077	22.3
Mass Spectrometry	10	0.334	0.035	10.4
In-house [600]	10	0.334	0.035	10.4



Your result 0.28  
 Target value (ALTM) 0.346  
 Standard Uncertainty 0.012

Your specimen:  
 %bias -19.1 ▼  
 Accuracy Index 141

Method Principle mean [GLTM] 0.340  
 Method mean [MLTM] 0.345

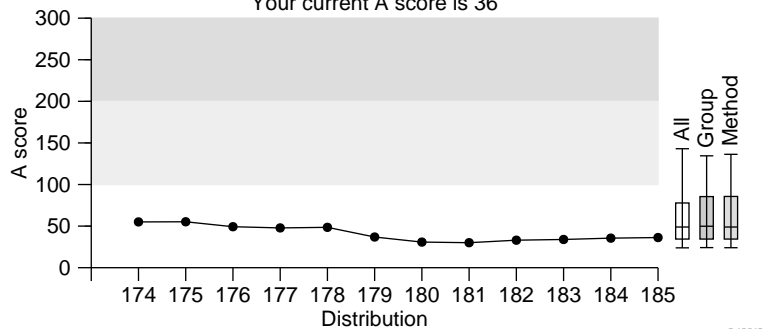


No target value, and hence no specimen %bias, have been calculated for Specimen 185C, (Pool C339) [low analyte concentration]. It follows that the results for this specimen has not contributed to the rolling time-window statistics.

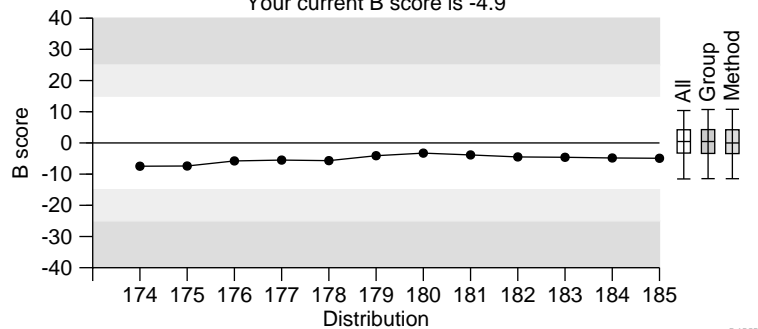


Pool (exclusion) [Type]	Distribution 180 09-Dec-2014			Distribution 181 27-Jan-2015			Distribution 182 24-Feb-2015			Distribution 183 24-Mar-2015			Distribution 184 28-Apr-2015			Distribution 185 02-Jun-2015		
	result	target	%bias	result	target	%bias	result	target	%bias	result	target	%bias	result	target	%bias	result	target	%bias
(C333) (C334) (C311) (C330) <b>(C339)</b> C320 C322 C326 C331 <b>C338</b> C310 C324 C332 <b>C337</b> C327 C323 C335 C328	1.28	<b>1.32</b>	-2.7	(0.50) 1.33	<b>1.43</b>	-6.9	(0.54) (0.55) 1.86	<b>1.91</b>	-2.8	(0.84) 2.03	<b>2.18</b>	-6.7	0.959 1.137	<b>1.07</b> <b>1.26</b>	-10.1 -9.5	(0.28) 1.41	<b>0.346</b> <b>1.47</b>	(-19.1) -4.0
Method mean	500		-2.9	500		-6.3	500		-2.8	500		-5.5	500		-8.3	500		-3.5
A score	31			30			33			34			36			36		
B score	-3.3			-3.9			-4.5			-4.6			-4.8			-4.9		
C score	3.8			2.9			2.3			2.3			2.9			2.8		

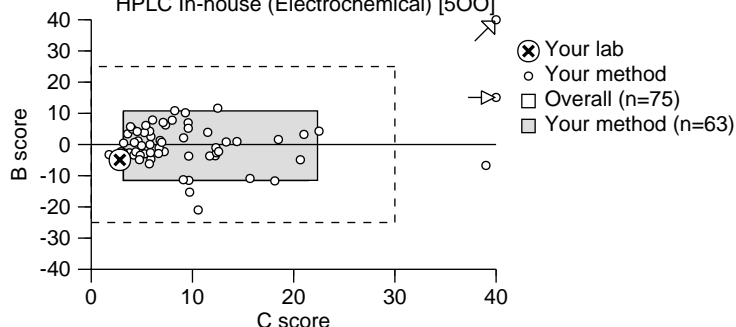
A score by distribution  
Your current A score is 36



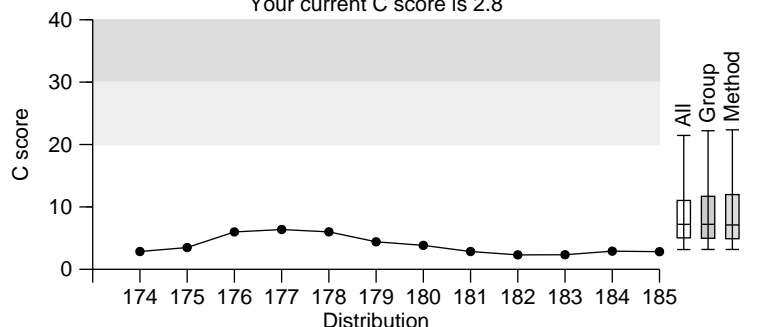
B score by distribution  
Your current B score is -4.9



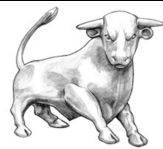
Metadrenaline B score is -4.9 and C score is 2.8  
HPLC In-house (Electrochemical) [500]



C score by distribution  
Your current C score is 2.8



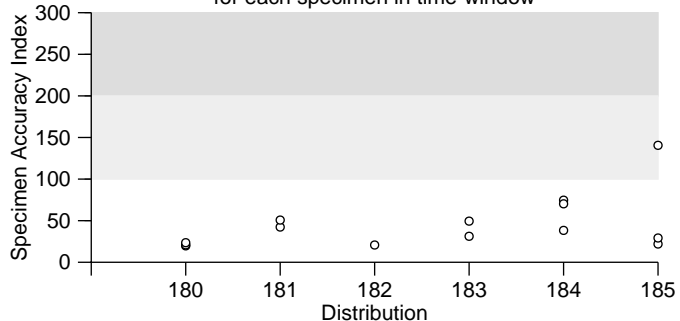




Birmingham Quality

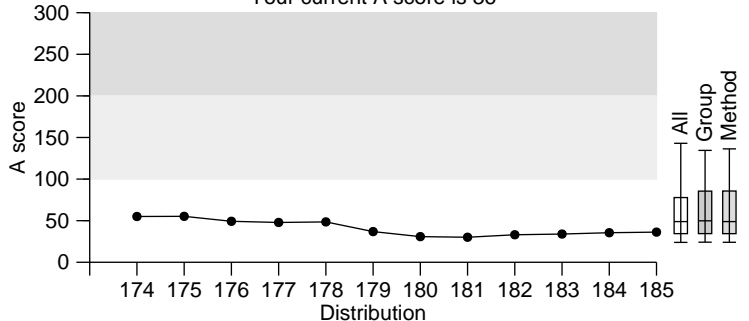
Metadrenaline umol/24h

Specimen Accuracy Index for each specimen in time-window



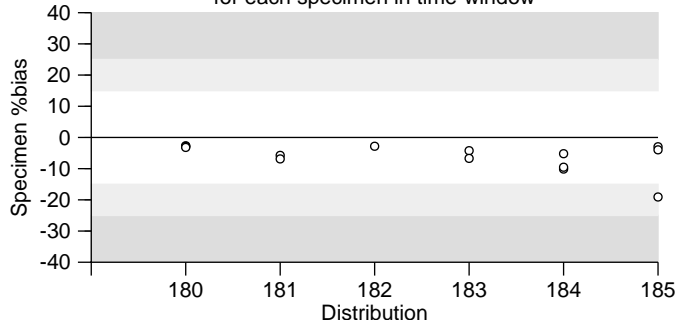
P-ABCATS (ABC1)

A score by distribution Your current A score is 36



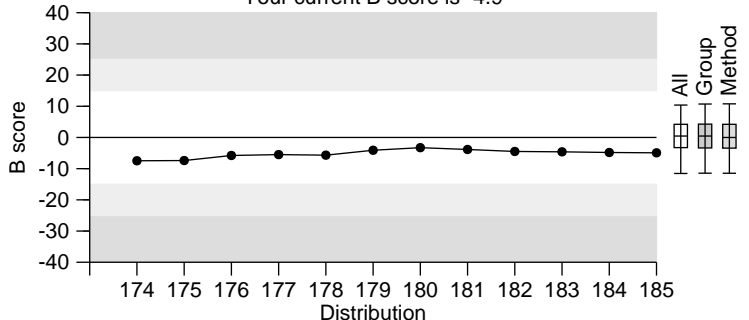
P-ABCAT (ABC1)

Specimen %bias for each specimen in time-window



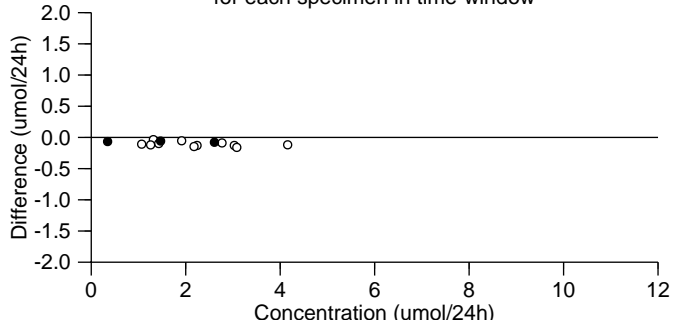
P-ABCBS (ABC1)

B score by distribution Your current B score is -4.9



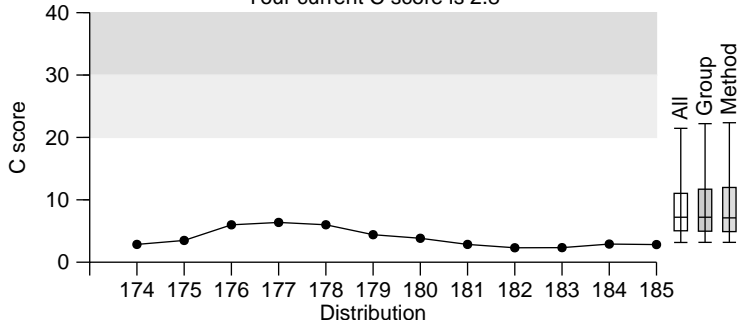
P-ABCBR (ABC1)

Difference (result - target) for each specimen in time-window



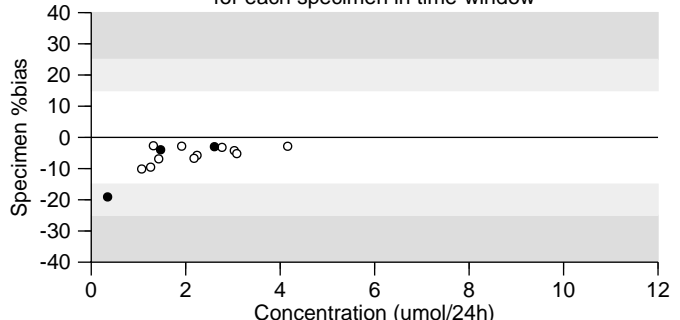
P-BA1FSA (ABC1)

C score by distribution Your current C score is 2.8



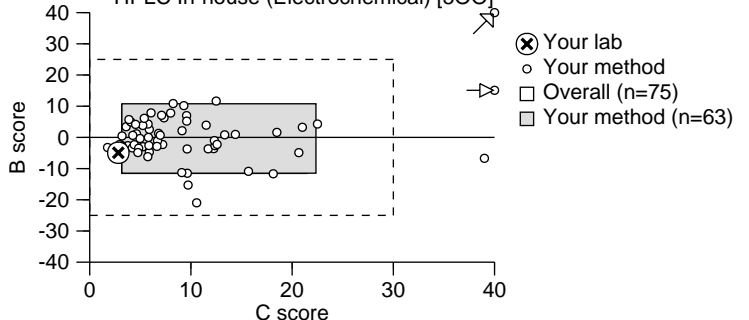
P-ABCCR (ABC1)

Specimen %bias for each specimen in time-window



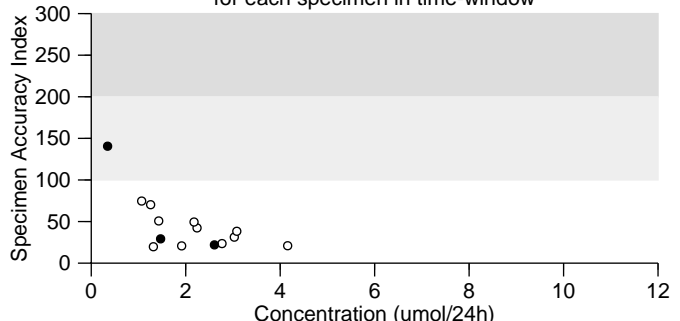
P-BA1FSP (ABC1)

Metadrenaline B score is -4.9 and C score is 2.8 HPLC In-house (Electrochemical) [500]



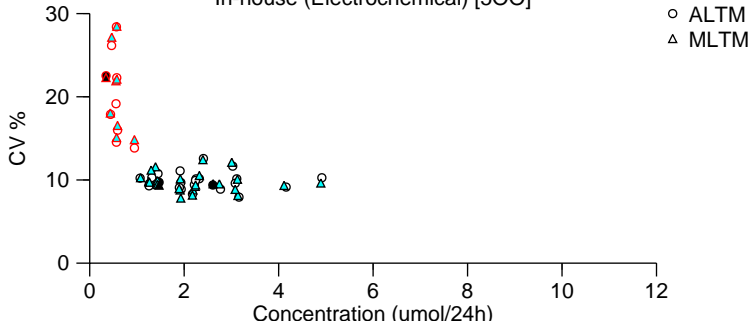
P-ABCPENR (ABC1)

Specimen Accuracy Index for each specimen in time-window



P-YSTMDD (ABC1)

Metadrenaline Between-laboratory agreement In-house (Electrochemical) [500]



P-PROFILE (ABC1)