Fluke 732B, 1.018V output

Manufacturer	Fluke	Calibration date	July 02 2019
Model Number	732B	Ambient Temperature	23.83 °C
Serial	6480002	Relative Humidity	23.09 %
ID Number	1.018V output	Pressure	1002.97 hPa
Notes	Test front port, spade cables	Test type	Manual ratio

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
DC STD	Fluke	732B	10.0000152 V	6480002	E190337B	05/30/2019	11/30/2019
DMM	HP	3458A	001,X02	MY45040325	XD2	06/16/2019	12/16/2019

xDevs.com certifies that this calibration used standards whose accuracies are traceable to the SI, through National Measurement Laboratory. Actual measurement uncertainty available upon request was calculated using the expanded method and is expressed in values at approximately the 95% confidence level using a coverage factor of K= 2.

Certificate statements are based on test results within specified limits without reduction of the uncertainty of the test and/or measurement. The test and measurement data here relate only to the item tested and/or measured. Unit acceptance of failure includes uncertainty data compilation.

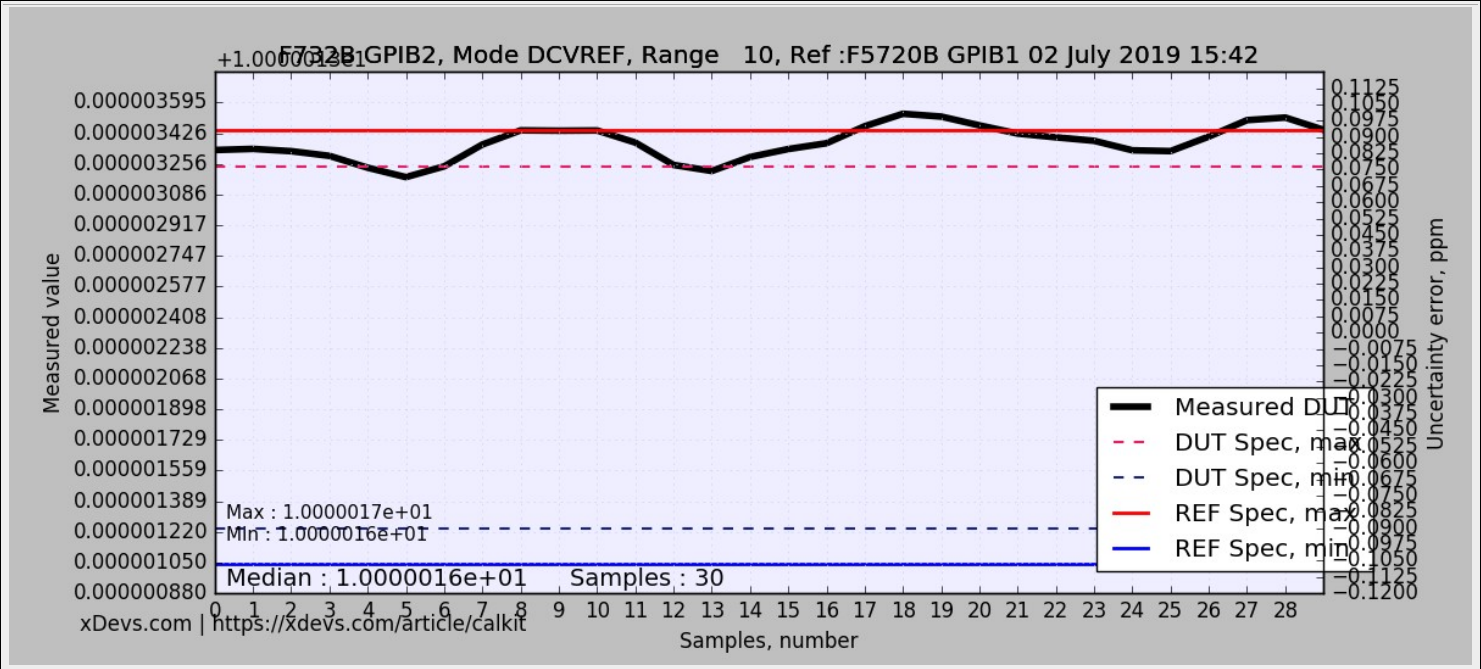
Calibration due date that appears on the Certificate of Calibration and labels are determined by the customer and does not imply conformance to a standard.

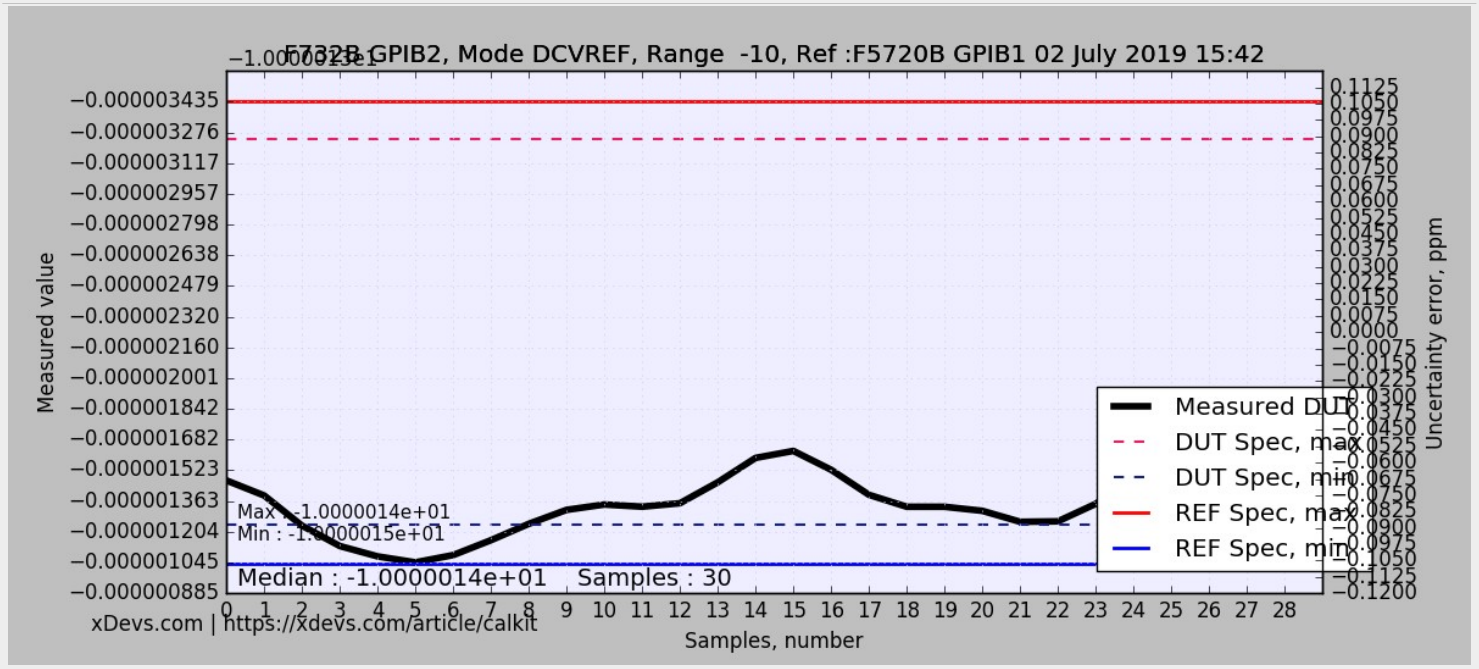
UUT output transferred by manual ratiometric measurement with reference standard.
Fixed range is used on the Keysight 3458A/X02 detector. The following test use 10 minute transfer specification with 732B 10V output source as reference.
3458A gain verified for stability <0.05 ppm over the test period. Detector DC voltage offset is DUT is nulled prior to the measurement.

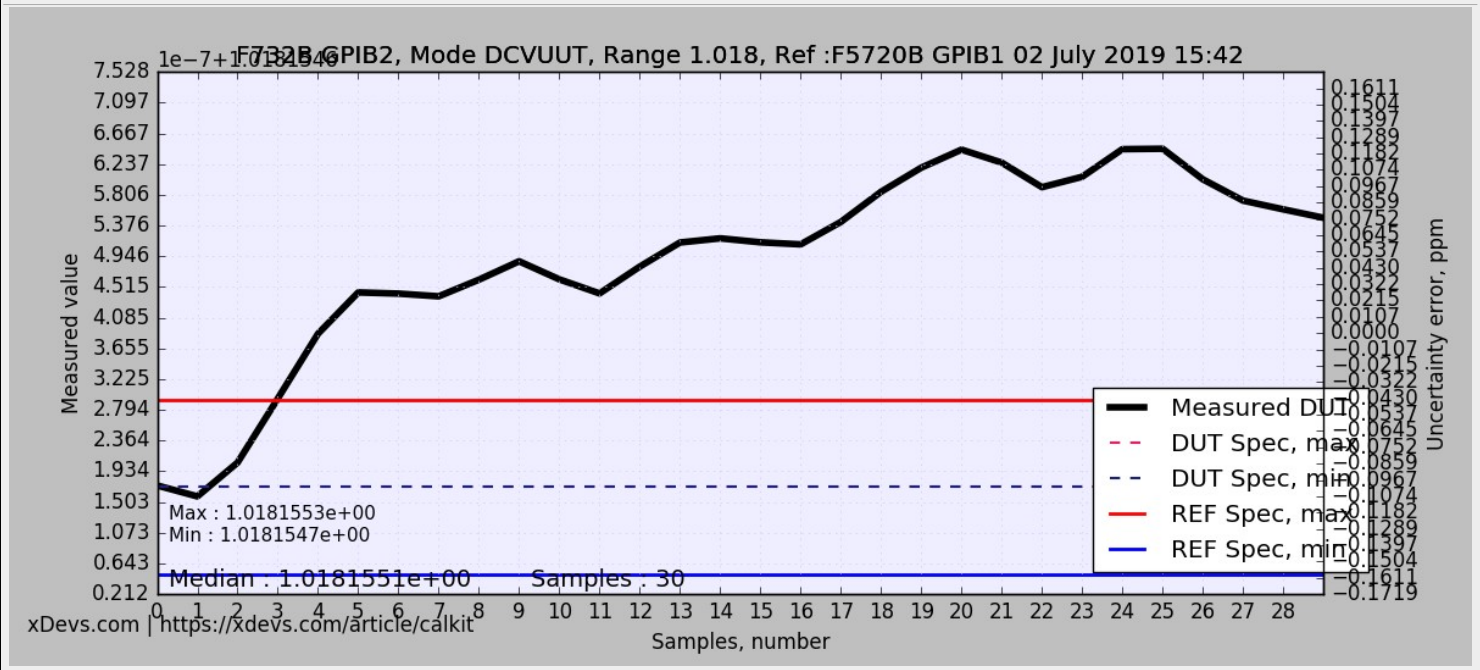
Configuration : Battery power STD, NPLC100, NDIG8, Guard is open.

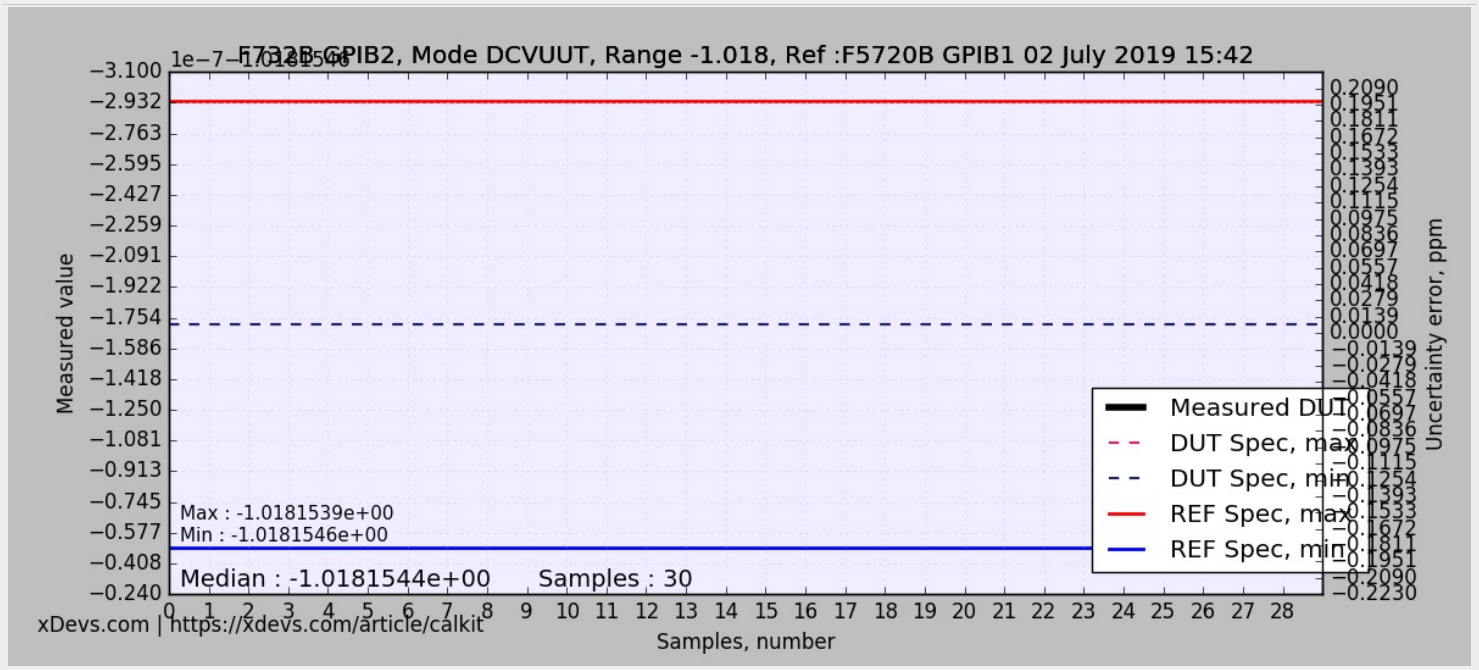
	Measurement	Unit	Uncertainty	Standard Deviation	DUT Spec / Δ	Test Status
Transfer reference output	**10.0000152**	**VDC**	**±0.020 ppm**		0.300 ppm	In spec
Reference measured output (+)	10.00001639	VDC	±0.100 ppm	σ = 0.1662 µVDC	Δ = 0.115 ppm	
Reference measured output (-)	-10.00001436	VDC	±0.100 ppm	σ = 0.2479 µVDC	Δ = -0.088 ppm	
Reference calculated EMF	10.00001538	VDC	±0.100 ppm		Δ = 0.013 ppm	
Detector zero offset	0.00000000	VDC		σ = 0.0000 µVDC		
UUT measured output (+)	1.01815515	VDC	±0.541 ppm	σ = 0.0895 µVDC		
UUT measured output (-)	-1.01815442	VDC	±0.541 ppm	σ = 0.1421 µVDC		
Ratio positive polarity	0.10181535		±0.641 ppm			
Ratio negative polarity	0.10181530		±0.641 ppm			
UUT calculated output (+)	1.01815504	VDC	±0.661 ppm		Δ = 0.259 ppm	
UUT calculated output (-)	-1.01815451	VDC	±0.661 ppm		Δ = -0.259 ppm	
UUT calculated EMF (Linear)	**1.01815477**	**VDC**	**±0.661 ppm**		0.1%	In spec
UUT calculated EMF (RSS)	**1.01815477**	**VDC**	**±0.641 ppm**		0.1%	In spec

Statistics image data









Test procedure : $Id: xfer_dcv.py | Rev 1440 | 2019/07/02 15:41:16 tin_fpga $

Lab temperature maintained +23°C ±1°C

Internal use only