3458A GPIB5 - F5720MMB

Manufacturer	HEWLETT-PACKARD	Calibration date	March 11 2019
Model Number	3458A	Ambient Temperature	24.83 °C
Serial	MM-GPIB5	Relative Humidity	49.90 %
ID Number	KS3458A	Pressure	1024.18
Notes	Test front ports	Test type	First

This note is test dummy text block for further use. It allow to include user information for further reference

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
CAL MFC	Fluke	5700A	/03 WB	XXX	MC01	11/14/2017	11/14/2018
DUT MFC	Fluke	5700B	/03 WB	XXX	MC02	03/07/2019	04/07/2019
DC STD	Fluke	732B-3	9.9999323 VDC	±0.55 ppm	SV03	08/20/2016	08/20/2017
DC STD	Fluke	732B-3	9.9999288 VDC	±0.56 ppm	SV03	11/03/2017	11/03/2018
STDR	IET	1 Ohm	0.99997483	±0.17 ppm	SM02	11/03/2017	11/30/2018
STDR	ESI	SR104	10000.0530 KΩ	±0.15 ppm	SM01	10/30/2017	10/30/2018

MFC last calibrated	5.0 days ago	MFC since DCV ZERO	3.0 days ago
MFC since WBFLAT	0.0 days ago	MFC since WBGAIN	0.0 days ago
MFC Confidence level	**24h 95% REL**	MFC Calibrate date	2019-03-06 00:00:00
MFC Calibrate date Zero	2019-03-08 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	1988-10-01 00:00:00	CAL CONST 6.5V reference voltage	6.55013026055
CAL CONST 13V reference voltage	13.0979736088	CAL CONST 22V range positive zero	398.17869
CAL CONST 22V range negative zero	398.17808	CAL CONST DAC Linearity	-0.306704359243
CAL CONST 10KOHM true output resistance	10000.4014388	CAL CONST 10KOHM standard resistance	10000.1317094
CAL CONST, Zero calibration temperature	25.0	CAL CONST, All calibration temp	25.0

This note is test MFC dummy text block for further use.
Calibrator was warmed up >8 hours.

Meter Info	HP3458A	Last calibration date	7/24/2018
CALSTR?	"17/01/2017,TEMP=34.3,3458F"	Test date	11 March 2019 12:51
DUT Internal TEMP?	38.4	DUT Calibrations number?	24
Self-test result?	0,"NO ERROR"	ACAL ALL result?	0,"NO ERROR"
Firmware	9,2	Options	0,0
CAL? 72	0.984924419	CAL? 1,1	39999.4076
CAL? 2,1	7.08200562	CAL? Res 73	0.984888673
CAL 0 TEMP	36.26	CAL 10V TEMP	37.16
CAL 10KOhm TEMP	36.74	CAL? DCI	0.984282957

Service information

CAL DUMP
[(1, 39999.4076), (1, 7.08200562), (1, 1.03515579e-06), (1, 8.13584698e-07), (1, 1.02494992e-06), (1, 7.94694314e-07), (1, 9.76628112e-07), (1, 7.94387114e-07), (1, -1.55180127e-05), (1, -1.55180127e-05), (1, -3.69945237e-05), (1, -3.69945237e-05), (1, 0.317675198), (1, 0.318756953), (1, 0.318678624), (1, 0.328787916), (1, 0.340996066), (1, 0.568702992), (1, 3.84984284), (1, 2.51858877), (1, 2.51858877), (1, 0.395804689), (1, 0.396651643), (1, 0.396489569), (1, 0.404085088), (1, 0.407626654), (1, 0.381534919), (1, 1.97889118), (1, 2.19477022), (1, 2.19477022), (1, 0.000380182198), (1, 0.00374755165), (1, 0.00373281522), (1, 0.0381140627), (1, 0.0718113682), (1, 0.712678433), (1, 8.9949599), (1, 8.31134295), (1, 8.31134295), (1, 0.000275535443), (1, 0.00275559706), (1, 0.00285318139), (1, 0.0300555097), (1, 0.0436408766), (1, 0.428326937), (1, 5.25305658), (1, 3.4540646), (1, 3.4540646), (1, 396.0), (1, 39.0), (1, 3.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 0.0), (1, 36.2569287), (1, 37.1637964), (1, 36.7401175), (1, 116.0), (1, -6.92325031e-13), (1, -9.1764017e-12), (1, -7.48964812e-11), (1, -5.167127e-10), (1, -3.41229411e-09), (1, -3.56628866e-08), (1, -3.39880791e-07), (1, -1.47776806e-06), (1, 0.983735347), (1, 0.984833858), (1, 0.984924419), (1, 0.984888673), (1, 0.984979239), (1, 0.99979663), (1, 0.999760181), (1, 1.00087659), (1, 1.00126117), (1, 1.00122622), (1, 1.00167763), (1, 1.00128745), (1, 1.00128745), (1, 1.00128745), (1, 0.999796634), (1, 0.999760222), (1, 1.00087663), (1, 1.00126153), (1, 1.00122705), (1, 1.00167763), (1, 1.00128745), (1, 1.00128745), (1, 1.00128745), (1, 0.984282957), (1, 0.983757479), (1, 0.983295647), (1, 0.986810285), (1, 0.983392571), (1, 0.983667562), (1, 0.982933836), (1, 1.01098939), (1, 69.0), (1, 95.0), (1, 4.93543848), (1, 4.03979056e-11), (1, -5.23107687e-12), (1, 10001486.3), (1, -0.00535328338), (1, -0.0481677557), (1, 0.999998851), (1, 0.999999829), (1, 1666.99477), (1, 16666.9775), (1, 5132.0), (1, 5126.0), (1, 5126.0), (1, 5126.0), (1, 5126.0), (1, 5125.0), (1, 61584.0), (1, 61512.0), (1, 61512.0), (1, 61512.0), (1, 61500.0), (1, 5010.0), (1, 5010.0), (1, 5004.0), (1, 5002.0), (1, 2501.0), (1, 2500.0), (1, 2501.0), (1, 12506.0), (1, 22739.0), (1, 60120.0), (1, 60120.0), (1, 60048.0), (1, 60024.0), (1, 30012.0), (1, 30000.0), (1, 30012.0), (1, 150072.0), (1, 272868.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 279.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 3348.0), (1, 38.408947), (1, 38.4714216), (1, 38.4512859), (1, 115.0), (1, 114.0), (1, 111.0), (1, 110.0), (1, 116.0), (1, 116.0), (1, 103.0), (1, 102.0), (1, 110.0), (1, 110.0), (1, 116.0), (1, 116.0), (1, 115.0), (1, 115.0), (1, 115.0), (1, 115.0), (1, 115.0), (1, 115.0), (1, 2529.0), (1, 2527.0), (1, 1278.0), (1, 1924.0), (1, 2102.0), (1, 2107.0), (1, 125.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 124.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, 126.0), (1, -0.00124663695), (1, -0.0112239221), (1, -0.119881369), (1, -1.18197358), (1, -11.724557), (1, -115.920702), (1, -0.00105549235), (1, -0.0112279468), (1, -0.119262209), (1, -1.18333515), (1, -11.7285999), (1, -115.832703), (1, 1.00147255), (1, 1.00932272), (1, 1.05067361), (1, 1.04241787), (1, 1.03285229), (1, 1.03061779), (1, 197455.906), (1, 10.3810909), (1, 0.987682881), (1, 0.995507169), (1, 1.03629205), (1, 1.02814931), (1, 1.01871467), (1, 1.01651076), (1, 7.00554249e-06), (1, 7.21555624e-05), (1, 0.000721555624), (1, 0.00721555624), (1, 0.0721555624), (1, 0.721555624), (1, 1.02542343), (1, 1.00014527), (1, 0.999749273), (1, 0.99997511), (1, 52.0), (1, 22.0), (1, 22.0), (1, 22.0), (1, 34.0), (1, 39.0), (1, 39.0), (1, 15.0)]
Destructive overloads?
82, DESTRUCTIVE OVERLOADS valid 2941
Reference
Direct MFC test, verification 5700MMB
DUT Condition
Test after reassembly

Test procedure : $Id: hp3458a.py | Rev 1196 | 2019/03/11 16:10:33 clu $

Source procedure : $Id: f5720a.py | Rev 1196 | 2019/03/11 16:10:33 clu $

Main DC Voltage ranges performance test.
Checks zero offset and +/-FS calibration on all ranges
The following test for the offset voltage specification using MFC 0V source in 4-wire ext sense mode as reference.
DCV gain range points verify gain of the DC voltage function, using uncorrected 24-hour MFC output. DC voltage offset of DUT is nulled before FS tests.

Test Description	Expected Value	Measured Value	Measurement Uncertainty	Lower Limit	Upper Limit	Deviation	DUT Spec	Test Status
Short 0 mVDC	0.0000000E+00	**0.64 µV**	0.75 µV	-0.910 µV	0.910 µV	N/A	0.16 µV	PASS
Short 0.0 VDC	0.0000000E+00	**0.58 µV**	0.75 µV	-0.900 µV	0.900 µV	N/A	0.15 µV	PASS
Short 00.0 VDC	0.0000000E+00	**0.37 µV**	0.75 µV	-1.070 µV	1.070 µV	N/A	0.32 µV	PASS
Short 000.0 VDC	0.0000000E+00	**8.60 µV**	0.75 µV	-14.750 µV	14.750 µV	N/A	14.00 µV	PASS
Short 0000.0 VDC	0.0000000E+00	**36.87 µV**	0.75 µV	-41.750 µV	41.750 µV	N/A	41.00 µV	PASS
DCV Test	**0.1V-1000V**	**DUT**	**Source unc.**	**Low Limit**	**Hi limit**	**Measured**	**24h spec**	**Result**
0.1 VDC (0.10 Range)	0.1000000	**0.099999696**	7.27 ppm	0.099998723	0.10000128	-3.042 ppm	5.50 ppm	PASS 23.82 %
-0.1 VDC (0.10 Range)	-0.1000000	**-0.099999572**	7.27 ppm	-0.10000128	-0.099998723	-4.280 ppm	5.50 ppm	PASS 33.52 %
0.1 VDC (1.00 Range)	0.1000000	**0.099999738**	7.27 ppm	0.099999093	0.10000091	-2.623 ppm	1.80 ppm	PASS 28.92 %
0.2 VDC (1.00 Range)	0.2000000	**0.19999949**	3.86 ppm	0.19999887	0.20000113	-2.573 ppm	1.80 ppm	PASS 45.45 %
1.0 VDC (1.00 Range)	1.0000000	**1.0000024**	3.86 ppm	0.99999434	1.0000057	2.396 ppm	1.80 ppm	PASS 42.33 %
-0.1 VDC (1.00 Range)	-0.1000000	**-0.099999654**	7.27 ppm	-0.10000091	-0.099999093	-3.458 ppm	1.80 ppm	PASS 38.12 %
-0.2 VDC (1.00 Range)	-0.2000000	**-0.19999943**	3.86 ppm	-0.20000113	-0.19999887	-2.872 ppm	1.80 ppm	PASS 50.73 %
-1.0 VDC (1.00 Range)	-1.0000000	**-1.0000021**	3.86 ppm	-1.0000057	-0.99999434	2.086 ppm	1.80 ppm	PASS 36.86 %
1.0 VDC (10.00 Range)	1.0000000	**1.0000027**	3.86 ppm	0.99999559	1.0000044	2.656 ppm	0.55 ppm	PASS 60.23 %
2.0 VDC (10.00 Range)	2.0000000	**2.0000049**	2.77 ppm	1.9999934	2.0000066	2.468 ppm	0.55 ppm	PASS 74.33 %
10.0 VDC (10.00 Range)	10.0000000	**10.000014**	2.73 ppm	9.9999672	10.000033	1.424 ppm	0.55 ppm	PASS 43.41 %
-1.0 VDC (10.00 Range)	-1.0000000	**-1.0000021**	3.86 ppm	-1.0000044	-0.99999559	2.139 ppm	0.55 ppm	PASS 48.50 %
-2.0 VDC (10.00 Range)	-2.0000000	**-2.000004**	2.77 ppm	-2.0000066	-1.9999934	2.020 ppm	0.55 ppm	PASS 60.85 %
-10.0 VDC (10.00 Range)	-10.0000000	**-10.00001**	2.73 ppm	-10.000033	-9.9999672	0.988 ppm	0.55 ppm	PASS 30.12 %
10 VDC (100.00 Range)	10.0000000	**10.000042**	2.77 ppm	9.9999443	10.000056	4.172 ppm	2.80 ppm	PASS 74.90 %
20 VDC (100.00 Range)	20.0000000	**20.000053**	3.73 ppm	19.999869	20.000131	2.662 ppm	2.80 ppm	PASS 40.77 %
100 VDC (100.00 Range)	100.0000000	**100.00027**	3.73 ppm	99.999347	100.00065	2.740 ppm	2.80 ppm	PASS 41.96 %
-10 VDC (100.00 Range)	-10.0000000	**-10.000009**	2.77 ppm	-10.000056	-9.9999443	0.862 ppm	2.80 ppm	PASS 15.48 %
-20 VDC (100.00 Range)	-20.0000000	**-20.000032**	3.73 ppm	-20.000131	-19.999869	1.591 ppm	2.80 ppm	PASS 24.37 %
-100 VDC (100.00 Range)	-100.0000000	**-100.0003**	3.73 ppm	-100.00065	-99.999347	2.954 ppm	2.80 ppm	PASS 45.24 %
100 VDC (1000.00 Range)	100.0000000	**100.00028**	3.73 ppm	99.999367	100.00063	2.798 ppm	2.60 ppm	PASS 44.20 %
200 VDC (1000.00 Range)	200.0000000	**200.00039**	3.73 ppm	199.99873	200.00127	1.937 ppm	2.60 ppm	PASS 30.61 %
1000 VDC (1000.00 Range)	1000.0000000	**999.99808**	5.45 ppm	999.97995	1000.02	-1.924 ppm	2.60 ppm	PASS 9.60 %
-100 VDC (1000.00 Range)	-100.0000000	**-100.00018**	3.73 ppm	-100.00063	-99.999367	1.788 ppm	2.60 ppm	PASS 28.25 %
-200 VDC (1000.00 Range)	-200.0000000	**-200.00038**	3.73 ppm	-200.00127	-199.99873	1.902 ppm	2.60 ppm	PASS 30.06 %
-1000 VDC (1000.00 Range)	-1000.0000000	**-999.99938**	5.45 ppm	-1000.02	-999.97995	-0.622 ppm	2.60 ppm	PASS 15.74 %

4W test procedure for all test points that verify Gain of the OHMF function. 4-wire kelvin connection is used between DMM and MFC. 1GΩ resistance range is tested using the external standard, as MFC unable to provide this range value.

OHM Test	1 Ohm to 1 GOhm	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1 Ω	0.9998017	**0.9999112**	32.0 ppm	9.9976171E-01	9.9984169E-01	109.521 ppm	8.0 ppm	FAIL 273.80 %
1.9 Ω	1.8995064	**1.8998525**	25.0 ppm	1.8994437E+00	1.8995691E+00	182.216 ppm	8.0 ppm	FAIL 552.17 %
10 Ω	9.999933	**9.9990714**	5.0 ppm	9.9998030E+00	1.0000063E+01	-86.163 ppm	8.0 ppm	FAIL 662.79 %
19 Ω	18.999097	**18.999452**	4.0 ppm	1.8998907E+01	1.8999287E+01	18.694 ppm	6.0 ppm	FAIL 186.94 %
100 Ω	100.00183	**99.996331**	1.7 ppm	1.0000106E+02	1.0000260E+02	-54.989 ppm	6.0 ppm	FAIL 714.14 %
190 Ω	189.99505	**189.99769**	1.7 ppm	1.8999431E+02	1.8999579E+02	13.911 ppm	2.2 ppm	FAIL 356.70 %
1.0 kΩ	999.9918	**999.99555**	1.7 ppm	9.9998790E+02	9.9999570E+02	3.751 ppm	2.2 ppm	PASS 96.19 %
1.9 kΩ	1899.9976	**1899.9978**	1.7 ppm	1.8999902E+03	1.9000050E+03	0.112 ppm	2.2 ppm	PASS 2.87 %
10 kΩ	10000.084	**10000.384**	1.6 ppm	1.0000046E+04	1.0000122E+04	29.974 ppm	2.2 ppm	FAIL 788.78 %
19 kΩ	18999.701	**18999.366**	1.7 ppm	1.8999627E+04	1.8999775E+04	-17.622 ppm	2.2 ppm	FAIL 451.84 %
100 kΩ	100001.4	**100001.85**	2.0 ppm	1.0000098E+05	1.0000182E+05	4.453 ppm	2.2 ppm	FAIL 106.02 %
190 kΩ	189992.98	**189996.79**	2.0 ppm	1.8999051E+05	1.8999545E+05	20.060 ppm	11.0 ppm	FAIL 154.31 %
1.0 MΩ	1000003.1	**1000000.5**	2.5 ppm	9.9998960E+05	1.0000166E+06	-2.606 ppm	11.0 ppm	PASS 19.31 %
1.9 MΩ	1899959.2	**1899929**	3.0 ppm	1.8998490E+06	1.9000694E+06	-15.888 ppm	55.0 ppm	PASS 27.39 %
10 MΩ	9999407	**9999361.4**	10.0 ppm	9.9987570E+06	1.0000057E+07	-4.563 ppm	55.0 ppm	PASS 7.02 %
19 MΩ	18999096	**18998707**	20.0 ppm	1.8989026E+07	1.9009166E+07	-20.473 ppm	510.0 ppm	PASS 3.86 %
100 MΩ	1.000094E+08	**1.000218E+08**	50.0 ppm	9.9953395E+07	1.0006541E+08	124.037 ppm	510.0 ppm	PASS 22.15 %

4W and 2W Zero test procedure for all test points that verify Zero offset of the OHMF function. 4-wire kelvin connection is used between DMM and MFC. 1GΩ resistance range is tested using the external standard, as MFC unable to provide this range value.

OHM ZERO 4W	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10 Ω	**Range -0.0000022 Ω**	5.000e-05 Ω	-5e-05	5e-05	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range 0.0000219 Ω**	5.500e-04 Ω	-0.00055	0.00055	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range -0.0000324 Ω**	5.500e-03 Ω	-0.0055	0.0055	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range -0.0001799 Ω**	5.500e-02 Ω	-0.055	0.055	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range 0.0057564 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range 0.0971834 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range -1.3672339 Ω**	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range -0.2518589 Ω**	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range -0.2158790 Ω**	5.500e+03 Ω	-5500	5500	N/A	2.2000e-06 Ω	PASS
OHM ZERO 2W	**DUT**	**Source unc.**	**Low Limit**	**Hi limit**	**Measured**	**24h spec**	**Result**
10 Ω	**Range 0.2263723 Ω**	3.000e-01 Ω	-0.3	0.3	N/A	8.0000e-06 Ω	PASS
100 Ω	**Range 0.2247571 Ω**	3.500e-01 Ω	-0.35	0.35	N/A	2.2000e-06 Ω	PASS
1.0 kΩ	**Range 0.2243695 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
10 kΩ	**Range 0.2132285 Ω**	4.000e-01 Ω	-0.4	0.4	N/A	2.2000e-06 Ω	PASS
100 kΩ	**Range 0.1856444 Ω**	5.500e-01 Ω	-0.55	0.55	N/A	2.2000e-06 Ω	PASS
1.0 MΩ	**Range 0.2087641 Ω**	5.500e+00 Ω	-5.5	5.5	N/A	2.2000e-06 Ω	PASS
10 MΩ	**Range -0.7195956 Ω**	5.500e+01 Ω	-55	55	N/A	2.2000e-06 Ω	PASS
100 MΩ	**Range 0.7195957 Ω**	5.500e+02 Ω	-550	550	N/A	2.2000e-06 Ω	PASS
1 GΩ	**Range 0.7555754 Ω**	5.500e+03 Ω	-5500	5500	N/A	2.2000e-06 Ω	PASS

Procedure for all test points in the AC performance verification for ANAlog mode. AC-measurements does not suffer from TEMF offsets, test connection can be made using shielded leads terminated with dual banana plugs. MFC main AC output is used as reference source

ACV ANA Test	1V-10V	DUT	w/Guardband	Low Limit	Hi limit	Units	Measured	24h spec	Result
1.0 VAC @ 50.0 kHz	1.0	**2.4500141**	129.09	0.99955091	1.00044909	VAC	1450014.054 ppm	320.0 ppm	FAIL 322878.28 %
1.0 VAC @ 1.0 MHz	1.0	**1.0130515**	0.2500 %	0.9874	1.0126	VAC	1.3051 %	1.0100 %	FAIL 103.58 %
10 VAC @ 40 Hz	10	**10.002073**	0.0073 %	9.8982682	10.1017318	VAC	0.0207 %	1.0100 %	PASS 2.04 %
10 VAC @ 200 Hz	10	**10.001051**	73.18	9.9983682	10.0016318	VAC	105.076 ppm	90.0 ppm	PASS 64.39 %
10 VAC @ 500 Hz	10	**10.001077**	73.18	9.9983682	10.0016318	VAC	107.692 ppm	90.0 ppm	PASS 66.00 %
10 VAC @ 50.0 kHz	10	**10.001259**	129.09	9.9955091	10.0044909	VAC	125.947 ppm	320.0 ppm	PASS 28.04 %
10 VAC @ 1.0 MHz	10	**10.1321**	0.3000 %	9.869	10.131	VAC	1.3210 %	1.0100 %	FAIL 100.84 %

Procedure for all test points in the AC performance verification for SYNCronous mode. This is highest AC accuracy test. AC-measurements does not suffer from TEMF offsets, test connection can be made using shielded leads terminated with dual banana plugs. MFC main AC output is used as reference source

ACV SYNC Test	DUT	w/Guardband	Low Limit	Hi limit	Measured	24h spec	Result, % spec
0.01 V AC+DC @ 10 Hz	**0.010000699**	0.0312 %	0.009991	0.010009	0.0070 %	0.0600 %	PASS 7.66 %
0.01 V AC+DC @ 20 Hz	**0.0099998924**	0.0312 %	0.009991	0.010009	-0.0011 %	0.0600 %	PASS 1.18 %
0.01 V AC+DC @ 40 Hz	**0.0099997937**	0.0312 %	0.009991	0.010009	-0.0021 %	0.0600 %	PASS 2.26 %
0.01 V AC+DC @ 100 Hz	**0.0099995748**	0.0312 %	0.009994	0.010006	-0.0043 %	0.0310 %	PASS 6.83 %
0.01 V AC+DC @ 1.0 kHz	**0.0099996257**	0.0312 %	0.009994	0.010006	-0.0037 %	0.0310 %	PASS 6.02 %
0.01 V AC+DC @ 10.0 kHz	**0.010001422**	0.0312 %	0.009993	0.010007	0.0142 %	0.0410 %	PASS 19.69 %
0.01 V AC+DC @ 20.0 kHz	**0.01000083**	0.0312 %	0.009993	0.010007	0.0083 %	0.0410 %	PASS 11.49 %
0.01 V AC+DC @ 50.0 kHz	**0.0099982186**	0.0447 %	0.009984	0.010016	-0.0178 %	0.1110 %	PASS 11.44 %
0.01 V AC+DC @ 100.0 kHz	**0.0099818581**	0.0773 %	0.009941	0.010059	-0.1814 %	0.5110 %	PASS 30.84 %
0.01 V AC+DC @ 300.0 kHz	**0.009836102**	0.1500 %	0.009583	0.010417	-1.6390 %	4.0200 %	PASS 39.30 %
0.01 V AC+DC @ 500.0 kHz	**0.0096193136**	0.2500 %	0.006770	0.013230	-3.8069 %	32.0500 %	PASS 11.79 %
0.01 V AC+DC @ 1.0 MHz	**0.0087114289**	0.4000 %	0.006755	0.013245	-12.8857 %	32.0500 %	PASS 39.71 %
0.03 V AC+DC @ 10 Hz	**0.030005687**	0.0121 %	0.029993	0.030007	0.0190 %	0.0110 %	PASS 81.94 %
0.03 V AC+DC @ 20 Hz	**0.030004089**	0.0121 %	0.029993	0.030007	0.0136 %	0.0110 %	PASS 58.92 %
0.03 V AC+DC @ 40 Hz	**0.030004592**	0.0121 %	0.029993	0.030007	0.0153 %	0.0110 %	PASS 66.16 %
0.03 V AC+DC @ 100 Hz	**0.030003557**	0.0121 %	0.029994	0.030006	0.0119 %	0.0090 %	PASS 56.10 %
0.03 V AC+DC @ 1.0 kHz	**0.03000477**	0.0121 %	0.029994	0.030006	0.0159 %	0.0090 %	PASS 75.23 %
0.03 V AC+DC @ 10.0 kHz	**0.030005416**	0.0121 %	0.029992	0.030008	0.0181 %	0.0160 %	PASS 64.16 %
0.03 V AC+DC @ 20.0 kHz	**0.030003451**	0.0121 %	0.029992	0.030008	0.0115 %	0.0160 %	PASS 40.88 %
0.03 V AC+DC @ 50.0 kHz	**0.030002334**	0.0256 %	0.029983	0.030017	0.0078 %	0.0320 %	PASS 13.50 %
0.03 V AC+DC @ 100.0 kHz	**0.029994089**	0.0591 %	0.029958	0.030042	-0.0197 %	0.0820 %	PASS 13.96 %
0.03 V AC+DC @ 300.0 kHz	**0.029935147**	0.0964 %	0.029878	0.030122	-0.2162 %	0.3100 %	PASS 53.20 %
0.03 V AC+DC @ 500.0 kHz	**0.029891273**	0.1500 %	0.029652	0.030348	-0.3624 %	1.0100 %	PASS 31.24 %
0.03 V AC+DC @ 1.0 MHz	**0.029898184**	0.3000 %	0.029607	0.030393	-0.3394 %	1.0100 %	PASS 25.91 %
0.1 V AC+DC @ 10 Hz	**0.10000445**	0.0121 %	0.099977	0.100023	0.0044 %	0.0110 %	PASS 19.23 %
0.1 V AC+DC @ 20 Hz	**0.099999578**	0.0121 %	0.099977	0.100023	-0.0004 %	0.0110 %	PASS 1.82 %
0.1 V AC+DC @ 40 Hz	**0.09999821**	0.0121 %	0.099977	0.100023	-0.0018 %	0.0110 %	PASS 7.74 %
0.1 V AC+DC @ 100 Hz	**0.099997291**	0.0121 %	0.099979	0.100021	-0.0027 %	0.0090 %	PASS 12.82 %
0.1 V AC+DC @ 1.0 kHz	**0.099999796**	0.0121 %	0.099979	0.100021	-0.0002 %	0.0090 %	PASS 0.97 %
0.1 V AC+DC @ 10.0 kHz	**0.10000032**	0.0121 %	0.099972	0.100028	0.0003 %	0.0160 %	PASS 1.15 %
0.1 V AC+DC @ 20.0 kHz	**0.09999649**	0.0121 %	0.099972	0.100028	-0.0035 %	0.0160 %	PASS 12.47 %
0.1 V AC+DC @ 50.0 kHz	**0.099988298**	0.0256 %	0.099942	0.100058	-0.0117 %	0.0320 %	PASS 20.30 %
0.1 V AC+DC @ 100.0 kHz	**0.099954219**	0.0591 %	0.099859	0.100141	-0.0458 %	0.0820 %	PASS 32.45 %
0.1 V AC+DC @ 300.0 kHz	**0.099764959**	0.0964 %	0.099594	0.100406	-0.2350 %	0.3100 %	PASS 57.84 %
0.1 V AC+DC @ 500.0 kHz	**0.099627898**	0.1500 %	0.098840	0.101160	-0.3721 %	1.0100 %	PASS 32.08 %
0.1 V AC+DC @ 1.0 MHz	**0.099883074**	0.3000 %	0.098690	0.101310	-0.1169 %	1.0100 %	PASS 8.93 %
0.3 V AC+DC @ 10 Hz	**0.30000788**	0.0050 %	0.299952	0.300048	0.0026 %	0.0110 %	PASS 16.46 %
0.3 V AC+DC @ 20 Hz	**0.29999257**	0.0050 %	0.299952	0.300048	-0.0025 %	0.0110 %	PASS 15.51 %
0.3 V AC+DC @ 40 Hz	**0.2999891**	0.0050 %	0.299952	0.300048	-0.0036 %	0.0110 %	PASS 22.76 %
0.3 V AC+DC @ 100 Hz	**0.299986**	0.0050 %	0.299958	0.300042	-0.0047 %	0.0090 %	PASS 33.45 %
0.3 V AC+DC @ 1.0 kHz	**0.29999876**	0.0050 %	0.299958	0.300042	-0.0004 %	0.0090 %	PASS 2.95 %
0.3 V AC+DC @ 10.0 kHz	**0.30000102**	0.0050 %	0.299937	0.300063	0.0003 %	0.0160 %	PASS 1.61 %
0.3 V AC+DC @ 20.0 kHz	**0.29997941**	0.0050 %	0.299937	0.300063	-0.0069 %	0.0160 %	PASS 32.76 %
0.3 V AC+DC @ 50.0 kHz	**0.29998965**	0.0085 %	0.299878	0.300122	-0.0034 %	0.0320 %	PASS 8.51 %
0.3 V AC+DC @ 100.0 kHz	**0.3000193**	0.0138 %	0.299713	0.300287	0.0064 %	0.0820 %	PASS 6.71 %
0.3 V AC+DC @ 300.0 kHz	**0.30032185**	0.0425 %	0.298942	0.301058	0.1073 %	0.3100 %	PASS 30.43 %
0.3 V AC+DC @ 500.0 kHz	**0.30090399**	0.1100 %	0.296640	0.303360	0.3013 %	1.0100 %	PASS 26.90 %
0.3 V AC+DC @ 1.0 MHz	**0.30259639**	0.1800 %	0.296430	0.303570	0.8655 %	1.0100 %	PASS 72.73 %
1.0 V AC+DC @ 10 Hz	**1.0000893**	0.0050 %	0.999840	1.000160	0.0089 %	0.0110 %	PASS 55.96 %
1.0 V AC+DC @ 20 Hz	**1.000032**	0.0050 %	0.999840	1.000160	0.0032 %	0.0110 %	PASS 20.06 %
1.0 V AC+DC @ 40 Hz	**1.0000208**	0.0050 %	0.999840	1.000160	0.0021 %	0.0110 %	PASS 13.02 %
1.0 V AC+DC @ 100 Hz	**1.000012**	0.0050 %	0.999860	1.000140	0.0012 %	0.0090 %	PASS 8.59 %
1.0 V AC+DC @ 1.0 kHz	**1.0000462**	0.0050 %	0.999860	1.000140	0.0046 %	0.0090 %	PASS 33.14 %
1.0 V AC+DC @ 10.0 kHz	**1.0000357**	0.0050 %	0.999790	1.000210	0.0036 %	0.0160 %	PASS 17.02 %
1.0 V AC+DC @ 20.0 kHz	**0.9999902**	0.0050 %	0.999790	1.000210	-0.0010 %	0.0160 %	PASS 4.68 %
1.0 V AC+DC @ 50.0 kHz	**1.0000009**	0.0085 %	0.999595	1.000405	0.0001 %	0.0320 %	PASS 0.23 %
1.0 V AC+DC @ 100.0 kHz	**1.0000483**	0.0138 %	0.999042	1.000958	0.0048 %	0.0820 %	PASS 5.04 %
1.0 V AC+DC @ 300.0 kHz	**1.0011328**	0.0425 %	0.996475	1.003525	0.1133 %	0.3100 %	PASS 32.13 %
1.0 V AC+DC @ 500.0 kHz	**1.0030977**	0.1100 %	0.988800	1.011200	0.3098 %	1.0100 %	PASS 27.66 %
1.0 V AC+DC @ 1.0 MHz	**1.0107323**	0.1800 %	0.988100	1.011900	1.0732 %	1.0100 %	PASS 90.19 %
3.0 V AC+DC @ 10 Hz	**3.0001273**	0.0048 %	2.999525	3.000475	0.0042 %	0.0110 %	PASS 26.82 %
3.0 V AC+DC @ 20 Hz	**2.9999729**	0.0048 %	2.999525	3.000475	-0.0009 %	0.0110 %	PASS 5.70 %
3.0 V AC+DC @ 40 Hz	**2.999933**	0.0048 %	2.999525	3.000475	-0.0022 %	0.0110 %	PASS 14.13 %
3.0 V AC+DC @ 100 Hz	**2.9999418**	0.0048 %	2.999585	3.000415	-0.0019 %	0.0090 %	PASS 14.04 %

3.0 V AC+DC @ 1.0 kHz	**2.9999785**	0.0048 %	2.999585	3.000415	-0.0007 %	0.0090 %	PASS 5.19 %
3.0 V AC+DC @ 10.0 kHz	**2.9999175**	0.0048 %	2.999375	3.000625	-0.0027 %	0.0160 %	PASS 13.20 %
3.0 V AC+DC @ 20.0 kHz	**3.0000013**	0.0048 %	2.999375	3.000625	0.0000 %	0.0160 %	PASS 0.21 %
3.0 V AC+DC @ 50.0 kHz	**3.0001858**	0.0085 %	2.998784	3.001216	0.0062 %	0.0320 %	PASS 15.27 %
3.0 V AC+DC @ 100.0 kHz	**3.0000579**	0.0121 %	2.997176	3.002824	0.0019 %	0.0820 %	PASS 2.05 %
3.0 V AC+DC @ 300.0 kHz	**2.9993617**	0.0336 %	2.989691	3.010309	-0.0213 %	0.3100 %	PASS 6.19 %
3.0 V AC+DC @ 500.0 kHz	**3.0041037**	0.1100 %	2.966400	3.033600	0.1368 %	1.0100 %	PASS 12.21 %
3.0 V AC+DC @ 1.0 MHz	**3.0280241**	0.1700 %	2.964600	3.035400	0.9341 %	1.0100 %	PASS 79.16 %
10.0 V AC+DC @ 10 Hz	**10.000962**	0.0048 %	9.998418	10.001582	0.0096 %	0.0110 %	PASS 60.82 %
10.0 V AC+DC @ 20 Hz	**10.000451**	0.0048 %	9.998418	10.001582	0.0045 %	0.0110 %	PASS 28.49 %
10.0 V AC+DC @ 40 Hz	**10.000303**	0.0048 %	9.998418	10.001582	0.0030 %	0.0110 %	PASS 19.16 %
10.0 V AC+DC @ 100 Hz	**10.000232**	0.0048 %	9.998618	10.001382	0.0023 %	0.0090 %	PASS 16.80 %
10.0 V AC+DC @ 1.0 kHz	**10.000403**	0.0048 %	9.998618	10.001382	0.0040 %	0.0090 %	PASS 29.17 %
10.0 V AC+DC @ 10.0 kHz	**10.000184**	0.0048 %	9.997918	10.002082	0.0018 %	0.0160 %	PASS 8.82 %
10.0 V AC+DC @ 20.0 kHz	**10.000465**	0.0048 %	9.997918	10.002082	0.0047 %	0.0160 %	PASS 22.36 %
10.0 V AC+DC @ 50.0 kHz	**10.000952**	0.0085 %	9.995945	10.004054	0.0095 %	0.0320 %	PASS 23.49 %
10.0 V AC+DC @ 100.0 kHz	**9.9999854**	0.0121 %	9.990586	10.009414	-0.0001 %	0.0820 %	PASS 0.16 %
10.0 V AC+DC @ 300.0 kHz	**9.9985264**	0.0336 %	9.965636	10.034364	-0.0147 %	0.3100 %	PASS 4.29 %
10.0 V AC+DC @ 500.0 kHz	**10.01432**	0.1100 %	9.888000	10.112000	0.1432 %	1.0100 %	PASS 12.79 %
10.0 V AC+DC @ 1.0 MHz	**10.112817**	0.1700 %	9.882000	10.118000	1.1282 %	1.0100 %	PASS 95.61 %
30 V AC+DC @ 10 Hz	**30.001722**	0.0060 %	29.990995	30.009005	0.0057 %	0.0240 %	PASS 19.12 %
30 V AC+DC @ 20 Hz	**30.000111**	0.0060 %	29.990995	30.009005	0.0004 %	0.0240 %	PASS 1.23 %
30 V AC+DC @ 40 Hz	**29.999797**	0.0060 %	29.990995	30.009005	-0.0007 %	0.0240 %	PASS 2.25 %
30 V AC+DC @ 100 Hz	**29.999774**	0.0060 %	29.991595	30.008405	-0.0008 %	0.0220 %	PASS 2.69 %
30 V AC+DC @ 1.0 kHz	**30.000196**	0.0060 %	29.991595	30.008405	0.0007 %	0.0220 %	PASS 2.33 %
30 V AC+DC @ 10.0 kHz	**30.000302**	0.0060 %	29.991595	30.008405	0.0010 %	0.0220 %	PASS 3.59 %
30 V AC+DC @ 20.0 kHz	**30.001059**	0.0060 %	29.991595	30.008405	0.0035 %	0.0220 %	PASS 12.60 %
30 V AC+DC @ 50.0 kHz	**30.004106**	0.0060 %	29.987095	30.012905	0.0137 %	0.0370 %	PASS 31.82 %
30 V AC+DC @ 100.0 kHz	**30.007232**	0.0174 %	29.958191	30.041809	0.0241 %	0.1220 %	PASS 17.30 %
30 V AC+DC @ 300.0 kHz	**30.047486**	0.0991 %	29.847273	30.152727	0.1583 %	0.4100 %	PASS 31.09 %
30 V AC+DC @ 500.0 kHz	**30.132167**	0.5200 %	29.391000	30.609000	0.4406 %	1.5100 %	PASS 21.70 %
100.0 V AC+DC @ 10 Hz	**100.01111**	0.0060 %	99.969982	100.030018	0.0111 %	0.0240 %	PASS 36.87 %
100.0 V AC+DC @ 20 Hz	**100.00604**	0.0060 %	99.969982	100.030018	0.0060 %	0.0240 %	PASS 20.03 %
100.0 V AC+DC @ 40 Hz	**100.00498**	0.0060 %	99.969982	100.030018	0.0050 %	0.0240 %	PASS 16.51 %
100.0 V AC+DC @ 100 Hz	**100.00451**	0.0060 %	99.971982	100.028018	0.0045 %	0.0220 %	PASS 16.04 %
100.0 V AC+DC @ 1.0 kHz	**100.00649**	0.0060 %	99.971982	100.028018	0.0065 %	0.0220 %	PASS 23.07 %
100.0 V AC+DC @ 10.0 kHz	**100.0085**	0.0060 %	99.971982	100.028018	0.0085 %	0.0220 %	PASS 30.23 %
100.0 V AC+DC @ 20.0 kHz	**100.01092**	0.0060 %	99.971982	100.028018	0.0109 %	0.0220 %	PASS 38.81 %
100.0 V AC+DC @ 50.0 kHz	**100.01945**	0.0095 %	99.953455	100.046545	0.0195 %	0.0370 %	PASS 41.68 %
100.0 V AC+DC @ 100.0 kHz	**100.02421**	0.0174 %	99.860636	100.139364	0.0242 %	0.1220 %	PASS 17.36 %
300.0 V AC+DC @ 100 Hz	**299.94882**	0.0079 %	299.850408	300.149592	-0.0171 %	0.0420 %	PASS 33.97 %
300.0 V AC+DC @ 1.0 kHz	**299.9584**	0.0079 %	299.850408	300.149592	-0.0139 %	0.0420 %	PASS 27.61 %
300.0 V AC+DC @ 10.0 kHz	**149.97348**	0.0079 %	299.790408	300.209592	-50.0088 %	0.0620 %	FAIL 71213.32 %
300.0 V AC+DC @ 20.0 kHz	**149.97112**	0.0110 %	299.780865	300.219135	-50.0096 %	0.0620 %	FAIL 68128.36 %
300.0 V AC+DC @ 50.0 kHz	**150.02101**	0.0110 %	299.600865	300.399135	-49.9930 %	0.1220 %	FAIL 37474.60 %
750.0 V AC+DC @ 100 Hz	**749.90262**	0.0245 %	749.501498	750.498502	-0.0130 %	0.0420 %	PASS 19.27 %
750.0 V AC+DC @ 1.0 kHz	**749.93976**	0.0660 %	749.190000	750.810000	-0.0080 %	0.0420 %	PASS 7.38 %
750.0 V AC+DC @ 10.0 kHz	**749.94139**	0.0079 %	749.476020	750.523980	-0.0078 %	0.0620 %	PASS 11.04 %
750.0 V AC+DC @ 20.0 kHz	**749.94048**	0.0079 %	749.476020	750.523980	-0.0079 %	0.0620 %	PASS 11.21 %

Procedure for all test points that verify Gain of the DC current DCI function. Both +/-FS points are tested.
2-wire connection at LO and DCI is used between DMM and MFC.
DCI gain range points verify gain of the DC current function, using corrected 24-hour MFC output.

DCI Test	100nA-1A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
Zero µADC	0	**3.2240613E-11**						INFO
50 nADC	5E-08	**5.0019433E-08**						INFO
100 nADC	1E-07	**1.0002512E-07**	71.82 ppm	9.995182E-08	1.000482E-07	251.246 ppm	410 ppm	PASS 52.15 %
-100 nADC	-1E-07	**-9.995876E-08**	71.82 ppm	-1.000482E-07	-9.995182E-08	-412.397 ppm	410 ppm	PASS 85.59 %
-50 nADC	-5E-08	**-5.0006645E-08**						INFO
Zero µADC	0	**5.7058777E-11**						INFO
0.5 µADC	5E-07	**5.0005256E-07**	71.82 ppm	4.999391E-07	5.000609E-07	105.122 ppm	50 ppm	PASS 86.29 %
1.0 µADC	1E-06	**1.0000466E-06**	71.82 ppm	9.998782E-07	1.000122E-06	46.562 ppm	50 ppm	PASS 38.22 %
-1.0 µADC	-1E-06	**-9.9999209E-07**	71.82 ppm	-1.000122E-06	-9.998782E-07	-7.906 ppm	50 ppm	PASS 6.49 %
-0.5 µADC	-5E-07	**-4.9999421E-07**	71.82 ppm	-5.000609E-07	-4.999391E-07	-11.577 ppm	50 ppm	PASS 9.50 %
Zero 00 µADC	0	**2.6995844E-11**						INFO
5 µADC	5E-06	**5.0000204E-06**	71.82 ppm	4.999556E-06	5.000444E-06	4.088 ppm	17 ppm	PASS 4.60 %
10 µADC	1E-05	**1.0000067E-05**	71.82 ppm	9.999112E-06	1.000089E-05	6.692 ppm	17 ppm	PASS 7.53 %
-10 µADC	-1E-05	**-9.9999744E-06**	71.82 ppm	-1.000089E-05	-9.999112E-06	-2.558 ppm	17 ppm	PASS 2.88 %
-5 µADC	-5E-06	**-4.9999859E-06**	71.82 ppm	-5.000444E-06	-4.999556E-06	-2.830 ppm	17 ppm	PASS 3.19 %
Zero 000 µADC	0	**3.0050066E-11**						INFO
50 µADC	5E-05	**5.0000058E-05**	71.82 ppm	4.999561E-05	5.000439E-05	1.160 ppm	16 ppm	PASS 1.32 %
100 µADC	0.0001	**0.00010000008**	71.82 ppm	9.999122E-05	0.0001000088	0.814 ppm	16 ppm	PASS 0.93 %
-100 µADC	-0.0001	**-9.9999978E-05**	71.82 ppm	-0.0001000088	-9.999122E-05	-0.216 ppm	16 ppm	PASS 0.25 %
-50 µADC	-5E-05	**-5.000001E-05**	71.82 ppm	-5.000439E-05	-4.999561E-05	0.195 ppm	16 ppm	PASS 0.22 %
Zero mADC	0	**8.1235216E-11**						INFO
0.5 mADC	0.0005	**0.00050000112**	33.64 ppm	0.0004999762	0.0005000238	2.243 ppm	14 ppm	PASS 4.71 %
1.0 mADC	0.001	**0.0010000033**	33.64 ppm	0.0009999524	0.001000048	3.293 ppm	14 ppm	PASS 6.91 %
-1.0 mADC	-0.001	**-0.0010000037**	33.64 ppm	-0.001000048	-0.0009999524	3.730 ppm	14 ppm	PASS 7.83 %
-0.5 mADC	-0.0005	**-0.00050000214**	33.64 ppm	-0.0005000238	-0.0004999762	4.285 ppm	14 ppm	PASS 9.00 %
Zero 00 mADC	0	**6.6835824E-11**						INFO
5 mADC	0.005	**0.004999993**	32.27 ppm	0.004999769	0.005000231	-1.404 ppm	14 ppm	PASS 3.03 %
10 mADC	0.01	**0.010000004**	32.27 ppm	0.009999537	0.01000046	0.371 ppm	14 ppm	PASS 0.80 %
-10 mADC	-0.01	**-0.010000034**	32.27 ppm	-0.01000046	-0.009999537	3.410 ppm	14 ppm	PASS 7.37 %
-5 mADC	-0.005	**-0.005000033**	32.27 ppm	-0.005000231	-0.004999769	6.592 ppm	14 ppm	PASS 14.25 %
Zero 000 mADC	0	**6.0104957E-11**						INFO
50 mADC	0.05	**0.050000733**	53.32 ppm	0.04999588	0.05000412	14.659 ppm	29 ppm	PASS 17.81 %
100 mADC	0.1	**0.10000263**	53.32 ppm	0.09999177	0.1000082	26.315 ppm	29 ppm	PASS 31.97 %
-100 mADC	-0.1	**-0.10000355**	53.32 ppm	-0.1000082	-0.09999177	35.488 ppm	29 ppm	PASS 43.11 %
-50 mADC	-0.05	**-0.050001637**	53.32 ppm	-0.05000412	-0.04999588	32.735 ppm	29 ppm	PASS 39.76 %
Zero ADC	0	**6.8000256E-11**						INFO
0.5 ADC	0.5	**0.500001**	115.22 ppm	0.4998874	0.5001126	2.009 ppm	110 ppm	PASS 0.89 %
1.0 ADC	1	**0.99999008**	115.22 ppm	0.9997748	1.000225	-9.921 ppm	110 ppm	PASS 4.41 %
-1.0 ADC	-1	**-0.99999171**	115.22 ppm	-1.000225	-0.9997748	-8.290 ppm	110 ppm	PASS 3.68 %
-0.5 ADC	-0.5	**-0.50000237**	115.22 ppm	-0.5001126	-0.4998874	4.731 ppm	110 ppm	PASS 2.10 %

Procedure for all test points that verify Gain of the AC Current ACI function. Three frequency band points are tested, 50 Hz, 60 Hz and 1 kHz. 2-wire connection at LO and DCI is used between DMM and MFC.

ACI Test	200µA-2A	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result, % spec
10 µA AC @ 50 Hz	1e-05	**1.0026032E-05**	0.0160 %	9.9893955e-06	1.00106045e-05	2603.245 ppm	0.0900 %	INFO
100 µA AC @ 50 Hz	0.0001	**0.00010001615**	0.0160 %	9.9893955e-05	0.000100106045	161.512 ppm	0.0900 %	PASS 15.23 %
1.0 mA AC @ 50 Hz	0.001	**0.0010000832**	0.0160 %	0.00099903955	0.00100096045	83.206 ppm	0.0800 %	PASS 8.66 %
10 mA AC @ 50 Hz	0.01	**0.010000846**	0.0160 %	0.0099903955	0.0100096045	84.632 ppm	0.0800 %	PASS 8.81 %
100 mA AC @ 50 Hz	0.1	**0.10001567**	0.0133 %	0.099906682	0.100093318	156.654 ppm	0.0800 %	PASS 16.79 %
1.0 A AC @ 50 Hz	1.0	**1.0002624**	0.0133 %	0.99886682	1.00113318	0.0262 %	0.1000 %	PASS 23.16 %
10 µA AC @ 60 Hz	1e-05	**1.0027178E-05**	0.0133 %	9.9896682e-06	1.00103318e-05	2717.836 ppm	0.0900 %	INFO
100 µA AC @ 60 Hz	0.0001	**0.00010001485**	0.0133 %	9.9896682e-05	0.000100103318	148.458 ppm	0.0900 %	PASS 14.37 %
1.0 mA AC @ 60 Hz	0.001	**0.0010001018**	0.0129 %	0.00099907136	0.00100092864	101.824 ppm	0.0800 %	PASS 10.96 %
10 mA AC @ 60 Hz	0.01	**0.010001022**	0.0129 %	0.0099907136	0.0100092864	102.193 ppm	0.0800 %	PASS 11.00 %
100 mA AC @ 60 Hz	0.1	**0.10001788**	0.0288 %	0.099891182	0.100108818	178.829 ppm	0.0800 %	PASS 16.43 %
1.0 A AC @ 60 Hz	1.0	**1.0002681**	0.0288 %	0.99871182	1.00128818	0.0268 %	0.1000 %	PASS 20.81 %
10 µA AC @ 1.0 kHz	1e-05	**1.0024405E-05**	0.0160 %	9.9893955e-06	1.00106045e-05	2440.514 ppm	0.0900 %	INFO
100 µA AC @ 1.0 kHz	0.0001	**9.9989661E-05**	0.0160 %	9.9893955e-05	0.000100106045	-103.385 ppm	0.0900 %	PASS 9.75 %
1.0 mA AC @ 1.0 kHz	0.001	**0.0010001347**	0.0160 %	0.00099933955	0.00100066045	134.693 ppm	0.0500 %	PASS 20.39 %
10 mA AC @ 1.0 kHz	0.01	**0.010001351**	0.0160 %	0.0099933955	0.0100066045	135.053 ppm	0.0500 %	PASS 20.45 %
100 mA AC @ 1.0 kHz	0.1	**0.10002109**	0.0133 %	0.099936682	0.100063318	210.867 ppm	0.0500 %	PASS 33.30 %
1.0 A AC @ 1.0 kHz	1.0	**1.000176**	0.0133 %	0.99866682	1.00133318	0.0176 %	0.1200 %	PASS 13.20 %

Test completed

Test date	11 March 2019 22:16
UUT Internal TEMP?	38.0
Destructive overloads?	88, DESTRUCTIVE OVERLOADS valid 2941

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated