

Manufacturer	KEITHLEY INSTRUMENTS	Calibration date	November 17 2020
Model Number	Model 2182	Ambient Temperature	22.59 °C
Serial	MM GPIB7	Relative Humidity	51.60 %
ID Number	Calibration test unit	Pressure	1024.17
Notes	Test after fresh cal	Test type	Front spade lug terminals

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
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
STDR	xDevs.com/Fluke	SL935	1.00005616 Ω	±0.17 ppm	XR03	11/25/2017	10/04/2018
STDR	xDevs.com/Fluke	SL935	9999.9747 kΩ	±0.33 ppm	XR02	11/25/2017	10/04/2018

MFC last calibrated	29.0 days ago	MFC since DCV ZERO	21.0 days ago
MFC since WBFLAT	12009.0 days ago	MFC since WBGAIN	28.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2020-10-19 00:00:00
MFC Calibrate date Zero	2020-10-27 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	2020-10-20 00:00:00	CAL CONST 6.5V reference voltage	6.89135895011
CAL CONST 13V reference voltage	13.7948059532	CAL CONST 22V range positive zero	398.17871
CAL CONST 22V range negative zero	398.17824	CAL CONST DAC Linearity	0.260327694734
CAL CONST 10KOHM true output resistance	10000.0820586	CAL CONST 10KOHM standard resistance	10000.451077
CAL CONST, Zero calibration temperature	23.5799999237	CAL CONST, All calibration temp	23.5799999237
Booster type	VB5725,IB5725	Current output posts	AUX
Calibrate date 5725A AMP	1988-10-01 00:00:00	Calibrated days ago	2009-01-20 00:00:00
CAL CONST, Amp ACAL temperature	23.0	CAL CONST, Amp CalCheck temperature	23.0

Total uncertainty of each calibration point calculated with RSS

$$U_{95\%} = \sqrt{U_{SRC}^2 + U_{DUT}^2} * 2$$

Meter Info	KEITHLEY INSTRUMENTS INC.,MODEL 2182 ,0776251,A07 /A02	Test date start	17 November 2020 18:52	
Test specification interval	24 hour DUT spec	Line frequency	1	60.0
Next calibration date	2021,11,16	Last calibration date	2020,11,16	
DUT temperature to cal	-2.1	Last calibration temperature	+24.2	

Service information

Last calibration temperature	+24.2
All CAL values	0
Reference	
Verification	
DUT Condition	xfer-calkit

Test procedure : \$Id: k2182.py | Rev 1966 | 2020/11/17 10:07:31 MM \$

Source procedure : \$Id: f5720b.py | Rev 1724 | 2020/04/04 04:09:52 tin_fpga \$

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
CH1 Short 00 mVDC	0.0000000E+00	0.20 μV	7.27 μ V	-8.470 μ V	8.470 μ V	N/A	1.20 μ V	PASS
CH1 Short 000 mVDC	0.0000000E+00	0.20 μV	7.27 μ V	-11.270 μ V	11.270 μ V	N/A	4.00 μ V	PASS
CH1 Short 0.0 VDC	0.0000000E+00	0.12 μV	7.27 μ V	-87.270 μ V	87.270 μ V	N/A	80.00 μ V	PASS
CH1 Short 00.0 VDC	0.0000000E+00	0.31 μV	3.86 μ V	-603.860 μ V	603.860 μ V	N/A	0.60 mV	PASS
CH1 Short 000.0 VDC	0.0000000E+00	-40.81 μV	3.86 μ V	-6003.860 μ V	6003.860 μ V	N/A	6.00 mV	PASS
CH2 Short 000 mVDC	0.0000000E+00	-0.25 μV	7.27 μ V	-11.270 μ V	11.270 μ V	N/A	4.00 μ V	PASS
CH2 Short 0.0 VDC	0.0000000E+00	-0.21 μV	3.86 μ V	-83.860 μ V	83.860 μ V	N/A	80.00 μ V	PASS
CH2 Short 00.0 VDC	0.0000000E+00	-0.20 μV	3.86 μ V	-603.860 μ V	603.860 μ V	N/A	0.60 mV	PASS

DCV Test	0.01V-100V	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
0.001 VDC (0.010 Range)	0.0010000	0.001000042	401.60 ppm	0.0009995744	0.0010004256	41.960 ppm	24.00 ppm	PASS 9.86 %
0.005 VDC (0.010 Range)	0.0050000	0.0050000419	81.60 ppm	0.004999472	0.005000528	8.388 ppm	24.00 ppm	PASS 7.94 %
0.01 VDC (0.010 Range)	0.0100000	0.0099999687	41.60 ppm	0.009999344	0.010000656	-3.132 ppm	24.00 ppm	PASS 4.77 %
-0.01 VDC (0.010 Range)	-0.0100000	-0.0099998943	41.60 ppm	-0.010000656	-0.009999344	-10.566 ppm	24.00 ppm	PASS 16.11 %
-0.005 VDC (0.010 Range)	-0.0050000	-0.0049999413	81.60 ppm	-0.005000528	-0.004999472	-11.732 ppm	24.00 ppm	PASS 11.11 %
-0.001 VDC (0.010 Range)	-0.0010000	-0.0009999598	401.60 ppm	-0.0010004256	-0.0009995744	-40.200 ppm	24.00 ppm	PASS 9.45 %
0.01 VDC (0.100 Range)	0.0100000	0.010000004	41.60 ppm	0.009999454	0.010000546	0.410 ppm	13.00 ppm	PASS 0.75 %
0.05 VDC (0.100 Range)	0.0500000	0.050000104	9.60 ppm	0.04999887	0.05000113	2.078 ppm	13.00 ppm	PASS 9.19 %
0.1 VDC (0.100 Range)	0.1000000	0.10000019	5.60 ppm	0.09999814	0.10000186	1.900 ppm	13.00 ppm	PASS 10.22 %
-0.1 VDC (0.100 Range)	-0.1000000	-0.099999963	5.60 ppm	-0.10000186	-0.09999814	-0.367 ppm	13.00 ppm	PASS 1.97 %
-0.05 VDC (0.100 Range)	-0.0500000	-0.050000029	9.60 ppm	-0.05000113	-0.04999887	0.570 ppm	13.00 ppm	PASS 2.52 %
-0.01 VDC (0.100 Range)	-0.0100000	-0.0099999562	41.60 ppm	-0.010000546	-0.009999454	-4.380 ppm	13.00 ppm	PASS 8.02 %
0.1 VDC (1.000 Range)	0.1000000	0.099999664	8.60 ppm	0.09999824	0.10000176	-3.356 ppm	9.00 ppm	PASS 19.07 %
0.5 VDC (1.000 Range)	0.5000000	0.49999854	3.00 ppm	0.499994	0.500006	-2.914 ppm	9.00 ppm	PASS 24.28 %
1 VDC (1.000 Range)	1.0000000	0.9999983	2.30 ppm	0.9999887	1.0000113	-1.699 ppm	9.00 ppm	PASS 15.04 %
-1 VDC (1.000 Range)	-1.0000000	-0.99999771	2.30 ppm	-1.0000113	-0.9999887	-2.288 ppm	9.00 ppm	PASS 20.25 %
-0.5 VDC (1.000 Range)	-0.5000000	-0.49999878	3.00 ppm	-0.500006	-0.499994	-2.436 ppm	9.00 ppm	PASS 20.30 %
-0.1 VDC (1.000 Range)	-0.1000000	-0.099999458	8.60 ppm	-0.10000176	-0.09999824	-5.417 ppm	9.00 ppm	PASS 30.78 %
1.0 VDC (10.000 Range)	1.0000000	0.99999764	3.30 ppm	0.9999937	1.0000063	-2.357 ppm	3.00 ppm	PASS 37.42 %
5 VDC (10.000 Range)	5.0000000	4.9999916	1.30 ppm	4.9999785	5.0000215	-1.685 ppm	3.00 ppm	PASS 39.19 %
10.0 VDC (10.000 Range)	10.0000000	9.9999903	1.10 ppm	9.999959	10.000041	-0.965 ppm	3.00 ppm	PASS 23.55 %
-10.0 VDC (10.000 Range)	-10.0000000	-9.9999938	1.10 ppm	-10.000041	-9.999959	-0.617 ppm	3.00 ppm	PASS 15.05 %
-5.0 VDC (10.000 Range)	-5.0000000	-4.9999988	1.30 ppm	-5.0000215	-4.9999785	-0.231 ppm	3.00 ppm	PASS 5.37 %
-1.0 VDC (10.000 Range)	-1.0000000	-0.99999519	3.30 ppm	-1.0000063	-0.9999937	-4.811 ppm	3.00 ppm	PASS 76.36 %

DCV Test CH2	0.1V-10V	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
0.01 VDC (0.10 Range)	0.0100000	0.0099993795	41.60 ppm	0.009999344	0.010000656	-62.045 ppm	24.00 ppm	PASS 94.58 %
0.05 VDC (0.10 Range)	0.0500000	0.04999966	9.60 ppm	0.04999832	0.05000168	-6.792 ppm	24.00 ppm	PASS 20.21 %
0.1 VDC (0.10 Range)	0.1000000	0.1000002	5.60 ppm	0.09999704	0.10000296	1.990 ppm	24.00 ppm	PASS 6.72 %
-0.1 VDC (0.10 Range)	-0.1000000	-0.10000109	5.60 ppm	-0.10000296	-0.09999704	10.945 ppm	24.00 ppm	PASS 36.98 %
-0.05 VDC (0.10 Range)	-0.0500000	-0.050000848	9.60 ppm	-0.05000168	-0.04999832	16.969 ppm	24.00 ppm	PASS 50.50 %

-0.01 VDC (0.10 Range)	-0.0100000	-0.010000443	41.60 ppm	-0.010000656	-0.009999344	44.305 ppm	24.00 ppm	PASS 67.54 %
0.1 VDC (1.00 Range)	0.1000000	0.099999254	8.60 ppm	0.09999784	0.10000216	-7.461 ppm	13.00 ppm	PASS 34.54 %
0.5 VDC (1.00 Range)	0.5000000	0.49999815	3.00 ppm	0.499992	0.500008	-3.706 ppm	13.00 ppm	PASS 23.16 %
1 VDC (1.00 Range)	1.0000000	0.99999711	2.30 ppm	0.9999847	1.0000153	-2.885 ppm	13.00 ppm	PASS 18.86 %
-1 VDC (1.00 Range)	-1.0000000	-0.99999683	2.30 ppm	-1.0000153	-0.9999847	-3.168 ppm	13.00 ppm	PASS 20.70 %
-0.5 VDC (1.00 Range)	-0.5000000	-0.49999903	3.00 ppm	-0.500008	-0.499992	-1.947 ppm	13.00 ppm	PASS 12.17 %
-0.1 VDC (1.00 Range)	-0.1000000	-0.099999817	8.60 ppm	-0.10000216	-0.09999784	-1.831 ppm	13.00 ppm	PASS 8.48 %
1.0 VDC (10.00 Range)	1.0000000	0.99999685	3.30 ppm	0.9999877	1.0000123	-3.155 ppm	9.00 ppm	PASS 25.65 %
5 VDC (10.00 Range)	5.0000000	4.9999898	1.30 ppm	4.9999485	5.0000515	-2.036 ppm	9.00 ppm	PASS 19.77 %
10.0 VDC (10.00 Range)	10.0000000	9.9999896	1.10 ppm	9.999899	10.000101	-1.038 ppm	9.00 ppm	PASS 10.28 %
-10.0 VDC (10.00 Range)	-10.0000000	-9.9999914	1.10 ppm	-10.000101	-9.999899	-0.859 ppm	9.00 ppm	PASS 8.50 %
-5.0 VDC (10.00 Range)	-5.0000000	-5.0000015	1.30 ppm	-5.0000515	-4.9999485	0.303 ppm	9.00 ppm	PASS 2.94 %
-1.0 VDC (10.00 Range)	-1.0000000	-0.99999861	3.30 ppm	-1.0000123	-0.9999877	-1.386 ppm	9.00 ppm	PASS 11.27 %

Additional test for **combined DUT+MFC** DC Voltage Integral Linearity (INL) using fixed 10V range. Integral linearity is a measure of the device's deviation from ideal linear behaviour.

DCV Linearity	10 mV Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.25000 mV	0.010250	0.0102499	40.62 ppm	0.01024949	0.01025051	-6.98 ppm	9.00 ppm	PASS 14.06 %
10.00000 mV	0.010000	0.0099999	41.60 ppm	0.009999494	0.01000051	-7.97 ppm	9.00 ppm	PASS 15.74 %
9.75000 mV	0.009750	0.0097499	42.63 ppm	0.009749497	0.009750503	-8.83 ppm	9.00 ppm	PASS 17.11 %
9.50000 mV	0.009500	0.0094999	43.71 ppm	0.009499499	0.009500501	-6.51 ppm	9.00 ppm	PASS 12.36 %
9.25000 mV	0.009250	0.0092499	44.84 ppm	0.009249502	0.009250498	-5.55 ppm	9.00 ppm	PASS 10.31 %
9.00000 mV	0.009000	0.0090000	46.04 ppm	0.008999505	0.009000495	-5.53 ppm	9.00 ppm	PASS 10.04 %
8.75000 mV	0.008750	0.0087499	47.31 ppm	0.008749507	0.008750493	-5.81 ppm	9.00 ppm	PASS 10.32 %
8.50000 mV	0.008500	0.0084999	48.66 ppm	0.00849951	0.00850049	-5.98 ppm	9.00 ppm	PASS 10.37 %
8.25000 mV	0.008250	0.0082500	50.08 ppm	0.008249513	0.008250487	-4.39 ppm	9.00 ppm	PASS 7.44 %
8.00000 mV	0.008000	0.0080000	51.60 ppm	0.007999515	0.008000485	-5.31 ppm	9.00 ppm	PASS 8.77 %
7.75000 mV	0.007750	0.0077500	53.21 ppm	0.007749518	0.007750482	-4.91 ppm	9.00 ppm	PASS 7.90 %
7.50000 mV	0.007500	0.0075000	54.93 ppm	0.007499521	0.007500479	-2.84 ppm	9.00 ppm	PASS 4.44 %
7.25000 mV	0.007250	0.0072500	56.77 ppm	0.007249523	0.007250477	-4.99 ppm	9.00 ppm	PASS 7.59 %
7.00000 mV	0.007000	0.0070000	58.74 ppm	0.006999526	0.007000474	-4.24 ppm	9.00 ppm	PASS 6.25 %
6.75000 mV	0.006750	0.0067500	60.86 ppm	0.006749528	0.006750472	-4.04 ppm	9.00 ppm	PASS 5.79 %
6.50000 mV	0.006500	0.0065000	63.14 ppm	0.006499531	0.006500469	-3.14 ppm	9.00 ppm	PASS 4.36 %
6.25000 mV	0.006250	0.0062500	65.60 ppm	0.006249534	0.006250466	-4.82 ppm	9.00 ppm	PASS 6.46 %
6.00000 mV	0.006000	0.0060000	68.27 ppm	0.005999536	0.006000464	-3.83 ppm	9.00 ppm	PASS 4.95 %
5.75000 mV	0.005750	0.0057500	71.17 ppm	0.005749539	0.005750461	-5.52 ppm	9.00 ppm	PASS 6.89 %
5.50000 mV	0.005500	0.0055000	74.33 ppm	0.005499542	0.005500458	-3.01 ppm	9.00 ppm	PASS 3.62 %
5.25000 mV	0.005250	0.0052500	77.79 ppm	0.005249544	0.005250456	1.12 ppm	9.00 ppm	PASS 1.29 %
5.00000 mV	0.005000	0.0050000	81.60 ppm	0.004999547	0.005000453	-1.31 ppm	9.00 ppm	PASS 1.45 %
4.75000 mV	0.004750	0.0047500	85.81 ppm	0.00474955	0.00475045	-2.84 ppm	9.00 ppm	PASS 3.00 %
4.50000 mV	0.004500	0.0045000	90.49 ppm	0.004499552	0.004500448	-0.86 ppm	9.00 ppm	PASS 0.87 %
4.25000 mV	0.004250	0.0042500	95.72 ppm	0.004249555	0.004250445	2.18 ppm	9.00 ppm	PASS 2.09 %
4.00000 mV	0.004000	0.0040000	101.60 ppm	0.003999558	0.004000442	0.18 ppm	9.00 ppm	PASS 0.16 %
3.75000 mV	0.003750	0.0037500	108.27 ppm	0.00374956	0.00375044	1.98 ppm	9.00 ppm	PASS 1.69 %
3.50000 mV	0.003500	0.0035000	115.89 ppm	0.003499563	0.003500437	2.31 ppm	9.00 ppm	PASS 1.85 %
3.25000 mV	0.003250	0.0032500	124.68 ppm	0.003249566	0.003250434	1.06 ppm	9.00 ppm	PASS 0.79 %
3.00000 mV	0.003000	0.0030000	134.93 ppm	0.002999568	0.003000432	3.17 ppm	9.00 ppm	PASS 2.20 %
2.75000 mV	0.002750	0.0027500	147.05 ppm	0.002749571	0.002750429	-0.39 ppm	9.00 ppm	PASS 0.25 %
2.50000 mV	0.002500	0.0025000	161.60 ppm	0.002499573	0.002500427	2.31 ppm	9.00 ppm	PASS 1.35 %
2.25000 mV	0.002250	0.0022500	179.38 ppm	0.002249576	0.002250424	3.94 ppm	9.00 ppm	PASS 2.09 %
2.00000 mV	0.002000	0.0020000	201.60 ppm	0.001999579	0.002000421	6.58 ppm	9.00 ppm	PASS 3.13 %
1.75000 mV	0.001750	0.0017500	230.17 ppm	0.001749581	0.001750419	11.15 ppm	9.00 ppm	PASS 4.66 %
1.50000 mV	0.001500	0.0015000	268.27 ppm	0.001499584	0.001500416	13.85 ppm	9.00 ppm	PASS 4.99 %
1.25000 mV	0.001250	0.0012500	321.60 ppm	0.001249587	0.001250413	21.36 ppm	9.00 ppm	PASS 6.46 %
1.00000 mV	0.001000	0.0010000	401.60 ppm	0.0009995894	0.001000411	32.99 ppm	9.00 ppm	PASS 8.03 %
0.75000 mV	0.000750	0.0007500	534.93 ppm	0.0007495921	0.0007504079	40.76 ppm	9.00 ppm	PASS 7.49 %
0.50000 mV	0.000500	0.0005000	801.60 ppm	0.0004995947	0.0005004053	84.96 ppm	9.00 ppm	PASS 10.48 %
0.25000 mV	0.000250	0.0002500	1601.60 ppm	0.0002495974	0.0002504026	138.22 ppm	9.00 ppm	PASS 8.58 %
0.10000 mV	0.000100	0.0001000	4001.60 ppm	9.959894E-05	0.0001004011	334.86 ppm	9.00 ppm	PASS 8.35 %

-0.25000 mV	-0.000250	-0.0002500	1601.60 ppm	-0.0002504026	-0.0002495974	-189.51 ppm	9.00 ppm	PASS 11.77 %
-0.50000 mV	-0.000500	-0.0004999	801.60 ppm	-0.0005004053	-0.0004995947	-107.32 ppm	9.00 ppm	PASS 13.24 %
-0.75000 mV	-0.000750	-0.0007499	534.93 ppm	-0.0007504079	-0.0007495921	-72.46 ppm	9.00 ppm	PASS 13.32 %
-1.00000 mV	-0.001000	-0.0009999	401.60 ppm	-0.001000411	-0.0009995894	-62.35 ppm	9.00 ppm	PASS 15.18 %
-1.25000 mV	-0.001250	-0.0012499	321.60 ppm	-0.001250413	-0.001249587	-43.42 ppm	9.00 ppm	PASS 13.13 %
-1.50000 mV	-0.001500	-0.0014999	268.27 ppm	-0.001500416	-0.001499584	-39.20 ppm	9.00 ppm	PASS 14.14 %
-1.75000 mV	-0.001750	-0.0017499	230.17 ppm	-0.001750419	-0.001749581	-34.05 ppm	9.00 ppm	PASS 14.23 %
-2.00000 mV	-0.002000	-0.0019999	201.60 ppm	-0.002000421	-0.001999579	-33.03 ppm	9.00 ppm	PASS 15.68 %
-2.25000 mV	-0.002250	-0.0022499	179.38 ppm	-0.002250424	-0.002249576	-30.14 ppm	9.00 ppm	PASS 16.00 %
-2.50000 mV	-0.002500	-0.0024999	161.60 ppm	-0.002500427	-0.002499573	-24.16 ppm	9.00 ppm	PASS 14.16 %
-2.75000 mV	-0.002750	-0.0027499	147.05 ppm	-0.002750429	-0.002749571	-24.69 ppm	9.00 ppm	PASS 15.82 %
-3.00000 mV	-0.003000	-0.0029999	134.93 ppm	-0.003000432	-0.002999568	-31.33 ppm	9.00 ppm	PASS 21.77 %
-3.25000 mV	-0.003250	-0.0032499	124.68 ppm	-0.003250434	-0.003249566	-26.42 ppm	9.00 ppm	PASS 19.76 %
-3.50000 mV	-0.003500	-0.0034999	115.89 ppm	-0.003500437	-0.003499563	-26.06 ppm	9.00 ppm	PASS 20.87 %
-3.75000 mV	-0.003750	-0.0037499	108.27 ppm	-0.00375044	-0.00374956	-22.02 ppm	9.00 ppm	PASS 18.78 %
-4.00000 mV	-0.004000	-0.0039999	101.60 ppm	-0.004000442	-0.003999558	-22.58 ppm	9.00 ppm	PASS 20.41 %
-4.25000 mV	-0.004250	-0.0042499	95.72 ppm	-0.004250445	-0.004249555	-21.61 ppm	9.00 ppm	PASS 20.64 %
-4.50000 mV	-0.004500	-0.0044999	90.49 ppm	-0.004500448	-0.004499552	-20.70 ppm	9.00 ppm	PASS 20.80 %
-4.75000 mV	-0.004750	-0.0047499	85.81 ppm	-0.00475045	-0.00474955	-21.80 ppm	9.00 ppm	PASS 23.00 %
-5.00000 mV	-0.005000	-0.0049999	81.60 ppm	-0.005000453	-0.004999547	-20.98 ppm	9.00 ppm	PASS 23.16 %
-5.25000 mV	-0.005250	-0.0052499	77.79 ppm	-0.005250456	-0.005249544	-20.06 ppm	9.00 ppm	PASS 23.11 %
-5.50000 mV	-0.005500	-0.0054999	74.33 ppm	-0.005500458	-0.005499542	-20.54 ppm	9.00 ppm	PASS 24.65 %
-5.75000 mV	-0.005750	-0.0057499	71.17 ppm	-0.005750461	-0.005749539	-19.87 ppm	9.00 ppm	PASS 24.79 %
-6.00000 mV	-0.006000	-0.0059999	68.27 ppm	-0.006000464	-0.005999536	-19.76 ppm	9.00 ppm	PASS 25.58 %
-6.25000 mV	-0.006250	-0.0062499	65.60 ppm	-0.006250466	-0.006249534	-19.06 ppm	9.00 ppm	PASS 25.55 %
-6.50000 mV	-0.006500	-0.0064999	63.14 ppm	-0.006500469	-0.006499531	-19.57 ppm	9.00 ppm	PASS 27.13 %
-6.75000 mV	-0.006750	-0.0067499	60.86 ppm	-0.006750472	-0.006749528	-19.74 ppm	9.00 ppm	PASS 28.26 %
-7.00000 mV	-0.007000	-0.0069999	58.74 ppm	-0.007000474	-0.006999526	-20.33 ppm	9.00 ppm	PASS 30.01 %
-7.25000 mV	-0.007250	-0.0072499	56.77 ppm	-0.007250477	-0.007249523	-19.08 ppm	9.00 ppm	PASS 29.00 %
-7.50000 mV	-0.007500	-0.0074999	54.93 ppm	-0.007500479	-0.007499521	-19.52 ppm	9.00 ppm	PASS 30.54 %
-7.75000 mV	-0.007750	-0.0077499	53.21 ppm	-0.007750482	-0.007749518	-17.46 ppm	9.00 ppm	PASS 28.06 %
-8.00000 mV	-0.008000	-0.0079998	51.60 ppm	-0.008000485	-0.007999515	-18.94 ppm	9.00 ppm	PASS 31.25 %
-8.25000 mV	-0.008250	-0.0082498	50.08 ppm	-0.008250487	-0.008249513	-18.71 ppm	9.00 ppm	PASS 31.68 %
-8.50000 mV	-0.008500	-0.0084998	48.66 ppm	-0.00850049	-0.00849951	-18.78 ppm	9.00 ppm	PASS 32.57 %
-8.75000 mV	-0.008750	-0.0087498	47.31 ppm	-0.008750493	-0.008749507	-18.75 ppm	9.00 ppm	PASS 33.29 %
-9.00000 mV	-0.009000	-0.0089998	46.04 ppm	-0.009000495	-0.008999505	-17.37 ppm	9.00 ppm	PASS 31.56 %
-9.25000 mV	-0.009250	-0.0092498	44.84 ppm	-0.009250498	-0.009249502	-16.91 ppm	9.00 ppm	PASS 31.41 %
-9.50000 mV	-0.009500	-0.0094998	43.71 ppm	-0.009500501	-0.009499499	-19.12 ppm	9.00 ppm	PASS 36.28 %
-9.75000 mV	-0.009750	-0.0097498	42.63 ppm	-0.009750503	-0.009749497	-18.02 ppm	9.00 ppm	PASS 34.91 %
-10.00000 mV	-0.010000	-0.0099998	41.60 ppm	-0.01000051	-0.009999494	-18.98 ppm	9.00 ppm	PASS 37.50 %
-10.25000 mV	-0.010250	-0.0102498	40.62 ppm	-0.01025051	-0.01024949	-17.71 ppm	9.00 ppm	PASS 35.69 %

Additional test for **combined DUT+MFC** DC Voltage Integral Linearity (INL) using fixed 10V range. Integral linearity is a measure of the device's deviation from ideal linear behaviour.

DCV Linearity	100 mV Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
102.50000 mV	0.102500	0.0102500	5.50 ppm	0.1024985	0.1025015	-900000.04 ppm	9.00 ppm	FAIL 6206896.83 %
100.00000 mV	0.100000	0.0100000	5.60 ppm	0.09999854	0.1000015	-900000.17 ppm	9.00 ppm	FAIL 6164384.71 %
97.50000 mV	0.097500	0.0097500	5.70 ppm	0.09749857	0.09750143	-900000.31 ppm	9.00 ppm	FAIL 6122451.09 %
95.00000 mV	0.095000	0.0095000	5.81 ppm	0.09499859	0.09500141	-900000.17 ppm	9.00 ppm	FAIL 6076976.19 %
92.50000 mV	0.092500	0.0092500	5.92 ppm	0.09249862	0.09250138	-900000.13 ppm	9.00 ppm	FAIL 6032172.46 %
90.00000 mV	0.090000	0.0090000	6.04 ppm	0.08999865	0.09000135	-900000.09 ppm	9.00 ppm	FAIL 5984043.14 %
87.50000 mV	0.087500	0.0087500	6.17 ppm	0.08749867	0.08750133	-900000.34 ppm	9.00 ppm	FAIL 5932764.27 %
85.00000 mV	0.085000	0.0085000	6.31 ppm	0.0849987	0.0850013	-900000.20 ppm	9.00 ppm	FAIL 5878512.05 %
82.50000 mV	0.082500	0.0082500	6.45 ppm	0.08249873	0.08250127	-900000.07 ppm	9.00 ppm	FAIL 5825243.20 %
80.00000 mV	0.080000	0.0080000	6.60 ppm	0.07999875	0.08000125	-900000.13 ppm	9.00 ppm	FAIL 5769231.58 %
77.50000 mV	0.077500	0.0077500	6.76 ppm	0.07749878	0.07750122	-900000.43 ppm	9.00 ppm	FAIL 5710662.66 %
75.00000 mV	0.075000	0.0075000	6.93 ppm	0.07499881	0.07500119	-900000.20 ppm	9.00 ppm	FAIL 5649718.74 %
72.50000 mV	0.072500	0.0072500	7.12 ppm	0.07249883	0.07250117	-900000.14 ppm	9.00 ppm	FAIL 5583127.43 %
70.00000 mV	0.070000	0.0070000	7.31 ppm	0.06999886	0.07000114	-899999.91 ppm	9.00 ppm	FAIL 5518086.48 %
67.50000 mV	0.067500	0.0067500	7.53 ppm	0.06749888	0.06750112	-899999.93 ppm	9.00 ppm	FAIL 5444645.66 %
65.00000 mV	0.065000	0.0065000	7.75 ppm	0.06499891	0.06500109	-900000.30 ppm	9.00 ppm	FAIL 5373136.12 %
62.50000 mV	0.062500	0.0062500	8.00 ppm	0.06249894	0.06250106	-899999.85 ppm	9.00 ppm	FAIL 5294116.79 %
60.00000 mV	0.060000	0.0060000	8.27 ppm	0.05999896	0.06000104	-899999.57 ppm	9.00 ppm	FAIL 5211346.69 %
57.50000 mV	0.057500	0.0057500	8.56 ppm	0.05749899	0.05750101	-899999.85 ppm	9.00 ppm	FAIL 5125283.88 %
55.00000 mV	0.055000	0.0055000	8.87 ppm	0.05499902	0.05500098	-900000.08 ppm	9.00 ppm	FAIL 5036374.27 %
52.50000 mV	0.052500	0.0052500	9.22 ppm	0.05249904	0.05250096	-900000.04 ppm	9.00 ppm	FAIL 4939627.02 %
50.00000 mV	0.050000	0.0050000	9.60 ppm	0.04999907	0.05000093	-899999.91 ppm	9.00 ppm	FAIL 4838709.17 %
47.50000 mV	0.047500	0.0047500	10.02 ppm	0.0474991	0.0475009	-899999.46 ppm	9.00 ppm	FAIL 4731858.35 %
45.00000 mV	0.045000	0.0045000	10.49 ppm	0.04499912	0.04500088	-899999.68 ppm	9.00 ppm	FAIL 4617751.07 %
42.50000 mV	0.042500	0.0042500	11.01 ppm	0.04249915	0.04250085	-900000.35 ppm	9.00 ppm	FAIL 4497752.88 %
40.00000 mV	0.040000	0.0040000	11.60 ppm	0.03999918	0.04000082	-899999.46 ppm	9.00 ppm	FAIL 4368929.42 %
37.50000 mV	0.037500	0.0037500	12.27 ppm	0.0374992	0.0375008	-900000.03 ppm	9.00 ppm	FAIL 4231311.85 %
35.00000 mV	0.035000	0.0035000	13.03 ppm	0.03499923	0.03500077	-899999.57 ppm	9.00 ppm	FAIL 4085336.24 %
32.50000 mV	0.032500	0.0032500	13.91 ppm	0.03249926	0.03250074	-900000.52 ppm	9.00 ppm	FAIL 3928417.82 %
30.00000 mV	0.030000	0.0030000	14.93 ppm	0.02999928	0.03000072	-899999.63 ppm	9.00 ppm	FAIL 3760967.93 %
27.50000 mV	0.027500	0.0027500	16.15 ppm	0.02749931	0.02750069	-900000.73 ppm	9.00 ppm	FAIL 3578531.73 %
25.00000 mV	0.025000	0.0025000	17.60 ppm	0.02499934	0.02500067	-899999.86 ppm	9.00 ppm	FAIL 3383458.13 %
22.50000 mV	0.022500	0.0022500	19.38 ppm	0.02249936	0.02250064	-899999.41 ppm	9.00 ppm	FAIL 3171245.27 %
20.00000 mV	0.020000	0.0020000	21.60 ppm	0.01999939	0.02000061	-899998.37 ppm	9.00 ppm	FAIL 2941171.15 %
17.50000 mV	0.017500	0.0017500	24.46 ppm	0.01749941	0.01750059	-899998.95 ppm	9.00 ppm	FAIL 2689775.70 %
15.00000 mV	0.015000	0.0015000	28.27 ppm	0.01499944	0.01500056	-900000.70 ppm	9.00 ppm	FAIL 2414812.71 %
12.50000 mV	0.012500	0.0012500	33.60 ppm	0.01249947	0.01250053	-899998.39 ppm	9.00 ppm	FAIL 2112672.27 %
10.00000 mV	0.010000	0.0010000	41.60 ppm	0.009999494	0.01000051	-899998.93 ppm	9.00 ppm	FAIL 1778654.01 %
7.50000 mV	0.007500	0.0007500	54.93 ppm	0.007499521	0.007500479	-899997.06 ppm	9.00 ppm	FAIL 1407785.17 %
5.00000 mV	0.005000	0.0005000	81.60 ppm	0.004999547	0.005000453	-899999.94 ppm	9.00 ppm	FAIL 993377.42 %
2.50000 mV	0.002500	0.0002500	161.60 ppm	0.002499573	0.002500427	-899982.35 ppm	9.00 ppm	FAIL 527539.48 %
1.00000 mV	0.001000	0.0001000	401.60 ppm	0.0009995894	0.001000411	-899985.62 ppm	9.00 ppm	FAIL 219187.93 %

-2.50000 mV	-0.002500	-0.0002500	161.60 ppm	-0.002500427	-0.002499573	-900013.77 ppm	9.00 ppm	FAIL 527557.89 %
-5.00000 mV	-0.005000	-0.0005000	81.60 ppm	-0.005000453	-0.004999547	-900001.92 ppm	9.00 ppm	FAIL 993379.61 %
-7.50000 mV	-0.007500	-0.0007500	54.93 ppm	-0.007500479	-0.007499521	-900004.47 ppm	9.00 ppm	FAIL 1407796.77 %
-10.00000 mV	-0.010000	-0.0010000	41.60 ppm	-0.01000051	-0.009999494	-900001.09 ppm	9.00 ppm	FAIL 1778658.27 %
-12.50000 mV	-0.012500	-0.0012500	33.60 ppm	-0.01250053	-0.01249947	-900000.70 ppm	9.00 ppm	FAIL 2112677.71 %
-15.00000 mV	-0.015000	-0.0015000	28.27 ppm	-0.01500056	-0.01499944	-900000.47 ppm	9.00 ppm	FAIL 2414812.09 %
-17.50000 mV	-0.017500	-0.0017500	24.46 ppm	-0.01750059	-0.01749941	-900000.29 ppm	9.00 ppm	FAIL 2689779.72 %
-20.00000 mV	-0.020000	-0.0020000	21.60 ppm	-0.02000061	-0.01999939	-900001.25 ppm	9.00 ppm	FAIL 2941180.56 %
-22.50000 mV	-0.022500	-0.0022500	19.38 ppm	-0.02250064	-0.02249936	-900000.58 ppm	9.00 ppm	FAIL 3171249.40 %
-25.00000 mV	-0.025000	-0.0025000	17.60 ppm	-0.02500067	-0.02499934	-900000.38 ppm	9.00 ppm	FAIL 3383460.09 %
-27.50000 mV	-0.027500	-0.0027500	16.15 ppm	-0.02750069	-0.02749931	-900000.09 ppm	9.00 ppm	FAIL 3578529.18 %
-30.00000 mV	-0.030000	-0.0030000	14.93 ppm	-0.03000072	-0.02999928	-900000.75 ppm	9.00 ppm	FAIL 3760972.65 %
-32.50000 mV	-0.032500	-0.0032500	13.91 ppm	-0.03250074	-0.03249926	-900000.46 ppm	9.00 ppm	FAIL 3928417.53 %
-35.00000 mV	-0.035000	-0.0035000	13.03 ppm	-0.03500077	-0.03499923	-900000.62 ppm	9.00 ppm	FAIL 4085340.99 %
-37.50000 mV	-0.037500	-0.0037500	12.27 ppm	-0.0375008	-0.0374992	-900000.78 ppm	9.00 ppm	FAIL 4231315.39 %
-40.00000 mV	-0.040000	-0.0040000	11.60 ppm	-0.04000082	-0.03999918	-900000.55 ppm	9.00 ppm	FAIL 4368934.71 %
-42.50000 mV	-0.042500	-0.0042500	11.01 ppm	-0.04250085	-0.04249915	-900000.73 ppm	9.00 ppm	FAIL 4497754.75 %
-45.00000 mV	-0.045000	-0.0045000	10.49 ppm	-0.04500088	-0.04499912	-900000.56 ppm	9.00 ppm	FAIL 4617755.58 %
-47.50000 mV	-0.047500	-0.0047500	10.02 ppm	-0.0475009	-0.0474991	-900000.89 ppm	9.00 ppm	FAIL 4731865.87 %
-50.00000 mV	-0.050000	-0.0050000	9.60 ppm	-0.05000093	-0.04999907	-900000.75 ppm	9.00 ppm	FAIL 4838713.72 %
-52.50000 mV	-0.052500	-0.0052500	9.22 ppm	-0.05250096	-0.05249904	-900000.45 ppm	9.00 ppm	FAIL 4939629.23 %
-55.00000 mV	-0.055000	-0.0055000	8.87 ppm	-0.05500098	-0.05499902	-900000.09 ppm	9.00 ppm	FAIL 5036374.32 %
-57.50000 mV	-0.057500	-0.0057500	8.56 ppm	-0.05750101	-0.05749899	-900000.37 ppm	9.00 ppm	FAIL 5125286.82 %
-60.00000 mV	-0.060000	-0.0060000	8.27 ppm	-0.06000104	-0.05999896	-900000.21 ppm	9.00 ppm	FAIL 5211350.35 %
-62.50000 mV	-0.062500	-0.0062500	8.00 ppm	-0.06250106	-0.06249894	-900000.43 ppm	9.00 ppm	FAIL 5294120.18 %
-65.00000 mV	-0.065000	-0.0065000	7.75 ppm	-0.06500109	-0.06499891	-900000.53 ppm	9.00 ppm	FAIL 5373137.47 %
-67.50000 mV	-0.067500	-0.0067500	7.53 ppm	-0.06750112	-0.06749888	-900000.64 ppm	9.00 ppm	FAIL 5444649.99 %
-70.00000 mV	-0.070000	-0.0070000	7.31 ppm	-0.07000114	-0.06999886	-900000.08 ppm	9.00 ppm	FAIL 5518087.58 %
-72.50000 mV	-0.072500	-0.0072500	7.12 ppm	-0.07250117	-0.07249883	-900000.46 ppm	9.00 ppm	FAIL 5583129.42 %
-75.00000 mV	-0.075000	-0.0075000	6.93 ppm	-0.07500119	-0.07499881	-900000.43 ppm	9.00 ppm	FAIL 5649720.20 %
-77.50000 mV	-0.077500	-0.0077500	6.76 ppm	-0.07750122	-0.07749878	-900000.36 ppm	9.00 ppm	FAIL 5710662.19 %
-80.00000 mV	-0.080000	-0.0080000	6.60 ppm	-0.08000125	-0.07999875	-900000.32 ppm	9.00 ppm	FAIL 5769232.84 %
-82.50000 mV	-0.082500	-0.0082500	6.45 ppm	-0.08250127	-0.08249873	-900000.25 ppm	9.00 ppm	FAIL 5825244.32 %
-85.00000 mV	-0.085000	-0.0085000	6.31 ppm	-0.0850013	-0.0849987	-900000.19 ppm	9.00 ppm	FAIL 5878512.02 %
-87.50000 mV	-0.087500	-0.0087500	6.17 ppm	-0.08750133	-0.08749867	-900000.09 ppm	9.00 ppm	FAIL 5932762.59 %
-90.00000 mV	-0.090000	-0.0090000	6.04 ppm	-0.09000135	-0.08999865	-900000.16 ppm	9.00 ppm	FAIL 5984043.65 %
-92.50000 mV	-0.092500	-0.0092500	5.92 ppm	-0.09250138	-0.09249862	-900000.37 ppm	9.00 ppm	FAIL 6032174.07 %
-95.00000 mV	-0.095000	-0.0094999	5.81 ppm	-0.09500141	-0.09499859	-900000.53 ppm	9.00 ppm	FAIL 6076978.58 %
-97.50000 mV	-0.097500	-0.0097500	5.70 ppm	-0.09750143	-0.09749857	-900000.17 ppm	9.00 ppm	FAIL 6122450.12 %
-100.00000 mV	-0.100000	-0.0100000	5.60 ppm	-0.1000015	-0.09999854	-900000.28 ppm	9.00 ppm	FAIL 6164385.49 %
-102.50000 mV	-0.102500	-0.0102500	5.50 ppm	-0.1025015	-0.1024985	-900000.14 ppm	9.00 ppm	FAIL 6206897.53 %

DCV Linearity	1V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1.025000 V	1.0250000	1.0249970	2.28 ppm	1.024988	1.025012	-2.98 ppm	9.00 ppm	PASS 26.38 %
1.000000 V	1.0000000	0.9999970	2.30 ppm	0.9999887	1.000011	-3.04 ppm	9.00 ppm	PASS 26.88 %
0.975000 V	0.9750000	0.9749978	2.32 ppm	0.974989	0.975011	-2.28 ppm	9.00 ppm	PASS 20.13 %
0.950000 V	0.9500000	0.9499978	2.34 ppm	0.9499892	0.9500108	-2.30 ppm	9.00 ppm	PASS 20.26 %

0.925000 V	0.9250000	0.9249975	2.36 ppm	0.9249895	0.9250105	-2.65 ppm	9.00 ppm	PASS 23.33 %
0.900000 V	0.9000000	0.8999976	2.38 ppm	0.8999898	0.9000102	-2.64 ppm	9.00 ppm	PASS 23.16 %
0.875000 V	0.8750000	0.8749970	2.40 ppm	0.87499	0.87501	-3.43 ppm	9.00 ppm	PASS 30.11 %
0.850000 V	0.8500000	0.8499969	2.42 ppm	0.8499903	0.8500097	-3.63 ppm	9.00 ppm	PASS 31.76 %
0.825000 V	0.8250000	0.8249979	2.45 ppm	0.8249906	0.8250094	-2.58 ppm	9.00 ppm	PASS 22.54 %
0.800000 V	0.8000000	0.7999975	2.48 ppm	0.7999908	0.8000092	-3.07 ppm	9.00 ppm	PASS 26.74 %
0.775000 V	0.7750000	0.7749981	2.50 ppm	0.7749911	0.7750089	-2.45 ppm	9.00 ppm	PASS 21.34 %
0.750000 V	0.7500000	0.7499981	2.53 ppm	0.7499914	0.7500086	-2.56 ppm	9.00 ppm	PASS 22.18 %
0.725000 V	0.7250000	0.7249981	2.57 ppm	0.7249916	0.7250084	-2.64 ppm	9.00 ppm	PASS 22.81 %
0.700000 V	0.7000000	0.6999984	2.60 ppm	0.6999919	0.7000081	-2.26 ppm	9.00 ppm	PASS 19.48 %
0.675000 V	0.6750000	0.6749982	2.64 ppm	0.6749921	0.6750079	-2.64 ppm	9.00 ppm	PASS 22.64 %
0.650000 V	0.6500000	0.6499981	2.68 ppm	0.6499924	0.6500076	-2.89 ppm	9.00 ppm	PASS 24.72 %
0.625000 V	0.6250000	0.6249982	2.72 ppm	0.6249927	0.6250073	-2.80 ppm	9.00 ppm	PASS 23.90 %
0.600000 V	0.6000000	0.5999980	2.77 ppm	0.5999929	0.6000071	-3.32 ppm	9.00 ppm	PASS 28.25 %
0.575000 V	0.5750000	0.5749982	2.82 ppm	0.5749932	0.5750068	-3.09 ppm	9.00 ppm	PASS 26.16 %
0.550000 V	0.5500000	0.5499981	2.87 ppm	0.5499935	0.5500065	-3.51 ppm	9.00 ppm	PASS 29.55 %
0.525000 V	0.5250000	0.5249979	2.93 ppm	0.5249937	0.5250063	-3.92 ppm	9.00 ppm	PASS 32.86 %
0.500000 V	0.5000000	0.4999983	3.00 ppm	0.499994	0.500006	-3.31 ppm	9.00 ppm	PASS 27.57 %
0.475000 V	0.4750000	0.4749986	3.07 ppm	0.4749943	0.4750057	-3.03 ppm	9.00 ppm	PASS 25.10 %
0.450000 V	0.4500000	0.4499986	3.16 ppm	0.4499945	0.4500055	-3.20 ppm	9.00 ppm	PASS 26.30 %
0.425000 V	0.4250000	0.4249986	3.25 ppm	0.4249948	0.4250052	-3.39 ppm	9.00 ppm	PASS 27.64 %
0.400000 V	0.4000000	0.3999986	3.35 ppm	0.3999951	0.4000049	-3.40 ppm	9.00 ppm	PASS 27.53 %
0.375000 V	0.3750000	0.3749984	3.47 ppm	0.3749953	0.3750047	-4.14 ppm	9.00 ppm	PASS 33.17 %
0.350000 V	0.3500000	0.3499984	3.60 ppm	0.3499956	0.3500044	-4.43 ppm	9.00 ppm	PASS 35.17 %
0.325000 V	0.3250000	0.3249987	3.75 ppm	0.3249959	0.3250041	-4.12 ppm	9.00 ppm	PASS 32.29 %
0.300000 V	0.3000000	0.2999988	3.93 ppm	0.2999961	0.3000039	-3.96 ppm	9.00 ppm	PASS 30.65 %
0.275000 V	0.2750000	0.2749986	4.15 ppm	0.2749964	0.2750036	-4.97 ppm	9.00 ppm	PASS 37.80 %
0.250000 V	0.2500000	0.2499990	4.40 ppm	0.2499966	0.2500034	-4.05 ppm	9.00 ppm	PASS 30.21 %
0.225000 V	0.2250000	0.2249990	4.71 ppm	0.2249969	0.2250031	-4.48 ppm	9.00 ppm	PASS 32.71 %
0.200000 V	0.2000000	0.1999990	5.10 ppm	0.1999972	0.2000028	-4.79 ppm	9.00 ppm	PASS 33.94 %
0.175000 V	0.1750000	0.1749992	5.60 ppm	0.1749974	0.1750026	-4.48 ppm	9.00 ppm	PASS 30.68 %
0.150000 V	0.1500000	0.1499995	6.27 ppm	0.1499977	0.1500023	-3.53 ppm	9.00 ppm	PASS 23.10 %
0.125000 V	0.1250000	0.1249996	7.20 ppm	0.124998	0.125002	-3.59 ppm	9.00 ppm	PASS 22.17 %
0.100000 V	0.1000000	0.0999997	8.60 ppm	0.09999824	0.1000018	-3.03 ppm	9.00 ppm	PASS 17.23 %
0.075000 V	0.0750000	0.0749998	10.93 ppm	0.07499851	0.07500149	-3.15 ppm	9.00 ppm	PASS 15.82 %
0.050000 V	0.0500000	0.0499998	15.60 ppm	0.04999877	0.05000123	-3.19 ppm	9.00 ppm	PASS 12.95 %
0.025000 V	0.0250000	0.0249999	29.60 ppm	0.02499904	0.02500096	-2.50 ppm	9.00 ppm	PASS 6.49 %
0.010000 V	0.0100000	0.0100001	71.60 ppm	0.009999194	0.01000081	8.28 ppm	9.00 ppm	PASS 10.27 %
-0.025000 V	-0.0250000	-0.0249998	29.60 ppm	-0.02500096	-0.02499904	-8.53 ppm	9.00 ppm	PASS 22.09 %
-0.050000 V	-0.0500000	-0.0499997	15.60 ppm	-0.05000123	-0.04999877	-6.51 ppm	9.00 ppm	PASS 26.46 %
-0.075000 V	-0.0750000	-0.0749997	10.93 ppm	-0.07500149	-0.07499851	-4.50 ppm	9.00 ppm	PASS 22.57 %
-0.100000 V	-0.1000000	-0.0999996	8.60 ppm	-0.1000018	-0.09999824	-3.84 ppm	9.00 ppm	PASS 21.83 %
-0.125000 V	-0.1250000	-0.1249997	7.20 ppm	-0.125002	-0.124998	-2.80 ppm	9.00 ppm	PASS 17.28 %
-0.150000 V	-0.1500000	-0.1499996	6.27 ppm	-0.1500023	-0.1499977	-2.53 ppm	9.00 ppm	PASS 16.55 %
-0.175000 V	-0.1750000	-0.1749998	5.60 ppm	-0.1750026	-0.1749974	-1.40 ppm	9.00 ppm	PASS 9.59 %
-0.200000 V	-0.2000000	-0.1999996	5.10 ppm	-0.2000028	-0.1999972	-1.81 ppm	9.00 ppm	PASS 12.80 %

-0.225000 V	-0.2250000	-0.2249997	4.71 ppm	-0.2250031	-0.2249969	-1.44 ppm	9.00 ppm	PASS 10.50 %
-0.250000 V	-0.2500000	-0.2499997	4.40 ppm	-0.2500034	-0.2499966	-1.06 ppm	9.00 ppm	PASS 7.94 %
-0.275000 V	-0.2750000	-0.2749997	4.15 ppm	-0.2750036	-0.2749964	-1.16 ppm	9.00 ppm	PASS 8.85 %
-0.300000 V	-0.3000000	-0.2999997	3.93 ppm	-0.3000039	-0.2999961	-1.11 ppm	9.00 ppm	PASS 8.61 %
-0.325000 V	-0.3250000	-0.3249999	3.75 ppm	-0.3250041	-0.3249959	-0.44 ppm	9.00 ppm	PASS 3.43 %
-0.350000 V	-0.3500000	-0.3499996	3.60 ppm	-0.3500044	-0.3499956	-1.24 ppm	9.00 ppm	PASS 9.86 %
-0.375000 V	-0.3750000	-0.3749994	3.47 ppm	-0.3750047	-0.3749953	-1.68 ppm	9.00 ppm	PASS 13.49 %
-0.400000 V	-0.4000000	-0.3999995	3.35 ppm	-0.4000049	-0.3999951	-1.17 ppm	9.00 ppm	PASS 9.45 %
-0.425000 V	-0.4250000	-0.4249995	3.25 ppm	-0.4250052	-0.4249948	-1.15 ppm	9.00 ppm	PASS 9.41 %
-0.450000 V	-0.4500000	-0.4499992	3.16 ppm	-0.4500055	-0.4499945	-1.84 ppm	9.00 ppm	PASS 15.10 %
-0.475000 V	-0.4750000	-0.4749992	3.07 ppm	-0.4750057	-0.4749943	-1.78 ppm	9.00 ppm	PASS 14.76 %
-0.500000 V	-0.5000000	-0.4999990	3.00 ppm	-0.500006	-0.499994	-2.06 ppm	9.00 ppm	PASS 17.13 %
-0.525000 V	-0.5250000	-0.5249988	2.93 ppm	-0.5250063	-0.5249937	-2.36 ppm	9.00 ppm	PASS 19.80 %
-0.550000 V	-0.5500000	-0.5499989	2.87 ppm	-0.5500065	-0.5499935	-2.04 ppm	9.00 ppm	PASS 17.19 %
-0.575000 V	-0.5750000	-0.5749990	2.82 ppm	-0.5750068	-0.5749932	-1.69 ppm	9.00 ppm	PASS 14.26 %
-0.600000 V	-0.6000000	-0.5999990	2.77 ppm	-0.6000071	-0.5999929	-1.71 ppm	9.00 ppm	PASS 14.53 %
-0.625000 V	-0.6250000	-0.6249985	2.72 ppm	-0.6250073	-0.6249927	-2.37 ppm	9.00 ppm	PASS 20.22 %
-0.650000 V	-0.6500000	-0.6499986	2.68 ppm	-0.6500076	-0.6499924	-2.13 ppm	9.00 ppm	PASS 18.23 %
-0.675000 V	-0.6750000	-0.6749987	2.64 ppm	-0.6750079	-0.6749921	-1.96 ppm	9.00 ppm	PASS 16.80 %
-0.700000 V	-0.7000000	-0.6999988	2.60 ppm	-0.7000081	-0.6999919	-1.71 ppm	9.00 ppm	PASS 14.75 %
-0.725000 V	-0.7250000	-0.7249983	2.57 ppm	-0.7250084	-0.7249916	-2.30 ppm	9.00 ppm	PASS 19.84 %
-0.750000 V	-0.7500000	-0.7499983	2.53 ppm	-0.7500086	-0.7499914	-2.22 ppm	9.00 ppm	PASS 19.23 %
-0.775000 V	-0.7750000	-0.7749983	2.50 ppm	-0.7750089	-0.7749911	-2.22 ppm	9.00 ppm	PASS 19.30 %
-0.800000 V	-0.8000000	-0.7999978	2.48 ppm	-0.8000092	-0.7999908	-2.73 ppm	9.00 ppm	PASS 23.79 %
-0.825000 V	-0.8250000	-0.8249975	2.45 ppm	-0.8250094	-0.8249906	-2.99 ppm	9.00 ppm	PASS 26.12 %
-0.850000 V	-0.8500000	-0.8499980	2.42 ppm	-0.8500097	-0.8499903	-2.34 ppm	9.00 ppm	PASS 20.46 %
-0.875000 V	-0.8750000	-0.8749981	2.40 ppm	-0.87501	-0.87499	-2.19 ppm	9.00 ppm	PASS 19.23 %
-0.900000 V	-0.9000000	-0.8999978	2.38 ppm	-0.9000102	-0.8999898	-2.40 ppm	9.00 ppm	PASS 21.06 %
-0.925000 V	-0.9250000	-0.9249976	2.36 ppm	-0.9250105	-0.9249895	-2.56 ppm	9.00 ppm	PASS 22.57 %
-0.950000 V	-0.9500000	-0.9499975	2.34 ppm	-0.9500108	-0.9499892	-2.59 ppm	9.00 ppm	PASS 22.88 %
-0.975000 V	-0.9750000	-0.9749969	2.32 ppm	-0.975011	-0.974989	-3.13 ppm	9.00 ppm	PASS 27.66 %
-1.000000 V	-1.0000000	-0.9999975	2.30 ppm	-1.000011	-0.9999887	-2.46 ppm	9.00 ppm	PASS 21.77 %
-1.025000 V	-1.0250000	-1.0249973	2.28 ppm	-1.025012	-1.024988	-2.63 ppm	9.00 ppm	PASS 23.35 %

DCV Linearity	10V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.250000 V	10.250000	10.2499864	1.04 ppm	10.2499	10.2501	-1.33 ppm	9.00 ppm	PASS 13.22 %
10.000000 V	10.000000	9.9999845	1.05 ppm	9.999899	10.0001	-1.55 ppm	9.00 ppm	PASS 15.39 %
9.750000 V	9.750000	9.7499840	1.06 ppm	9.749902	9.750098	-1.64 ppm	9.00 ppm	PASS 16.32 %
9.500000 V	9.500000	9.4999895	1.06 ppm	9.499904	9.500096	-1.10 ppm	9.00 ppm	PASS 10.94 %
9.250000 V	9.250000	9.2499884	1.07 ppm	9.249907	9.250093	-1.26 ppm	9.00 ppm	PASS 12.51 %
9.000000 V	9.000000	8.9999909	1.08 ppm	8.999909	9.000091	-1.01 ppm	9.00 ppm	PASS 9.99 %
8.750000 V	8.750000	8.7499914	1.09 ppm	8.749912	8.750088	-0.98 ppm	9.00 ppm	PASS 9.70 %
8.500000 V	8.500000	8.4999921	1.09 ppm	8.499914	8.500086	-0.93 ppm	9.00 ppm	PASS 9.20 %
8.250000 V	8.250000	8.2499918	1.10 ppm	8.249917	8.250083	-1.00 ppm	9.00 ppm	PASS 9.86 %
8.000000 V	8.000000	7.9999917	1.11 ppm	7.999919	8.000081	-1.04 ppm	9.00 ppm	PASS 10.27 %
7.750000 V	7.750000	7.7499928	1.12 ppm	7.749922	7.750078	-0.93 ppm	9.00 ppm	PASS 9.19 %
7.500000 V	7.500000	7.4999927	1.13 ppm	7.499924	7.500076	-0.98 ppm	9.00 ppm	PASS 9.65 %

7.250000 V	7.250000	7.249921	1.14 ppm	7.249926	7.250074	-1.08 ppm	9.00 ppm	PASS 10.69 %
7.000000 V	7.000000	6.999913	1.16 ppm	6.999929	7.000071	-1.24 ppm	9.00 ppm	PASS 12.22 %
6.750000 V	6.750000	6.749913	1.17 ppm	6.749931	6.750069	-1.29 ppm	9.00 ppm	PASS 12.66 %
6.500000 V	6.500000	6.499916	1.18 ppm	6.499934	6.500066	-1.30 ppm	9.00 ppm	PASS 12.76 %
6.250000 V	6.250000	6.249913	1.20 ppm	6.249936	6.250064	-1.40 ppm	9.00 ppm	PASS 13.71 %
6.000000 V	6.000000	5.999913	1.22 ppm	5.999939	6.000061	-1.46 ppm	9.00 ppm	PASS 14.24 %
5.750000 V	5.750000	5.749914	1.23 ppm	5.749941	5.750059	-1.49 ppm	9.00 ppm	PASS 14.54 %
5.500000 V	5.500000	5.499915	1.25 ppm	5.499944	5.500056	-1.55 ppm	9.00 ppm	PASS 15.13 %
5.250000 V	5.250000	5.249912	1.28 ppm	5.249946	5.250054	-1.68 ppm	9.00 ppm	PASS 16.32 %
5.000000 V	5.000000	4.999899	1.30 ppm	4.999949	5.000051	-2.01 ppm	9.00 ppm	PASS 19.53 %
4.750000 V	4.750000	4.749907	1.33 ppm	4.749951	4.750049	-1.96 ppm	9.00 ppm	PASS 19.01 %
4.500000 V	4.500000	4.499908	1.36 ppm	4.499953	4.500047	-2.03 ppm	9.00 ppm	PASS 19.63 %
4.250000 V	4.250000	4.249902	1.39 ppm	4.249956	4.250044	-2.31 ppm	9.00 ppm	PASS 22.22 %
4.000000 V	4.000000	3.999902	1.42 ppm	3.999958	4.000042	-2.46 ppm	9.00 ppm	PASS 23.61 %
3.750000 V	3.750000	3.749911	1.47 ppm	3.749961	3.750039	-2.38 ppm	9.00 ppm	PASS 22.72 %
3.500000 V	3.500000	3.499905	1.51 ppm	3.499963	3.500037	-2.72 ppm	9.00 ppm	PASS 25.91 %
3.250000 V	3.250000	3.249906	1.57 ppm	3.249966	3.250034	-2.89 ppm	9.00 ppm	PASS 27.36 %
3.000000 V	3.000000	2.999911	1.63 ppm	2.999968	3.000032	-2.97 ppm	9.00 ppm	PASS 27.97 %
2.750000 V	2.750000	2.749916	1.71 ppm	2.749971	2.750029	-3.06 ppm	9.00 ppm	PASS 28.59 %
2.500000 V	2.500000	2.499915	1.80 ppm	2.499973	2.500027	-3.39 ppm	9.00 ppm	PASS 31.41 %
2.250000 V	2.250000	2.249923	1.91 ppm	2.249975	2.250025	-3.43 ppm	9.00 ppm	PASS 31.45 %
2.000000 V	2.000000	1.999932	2.05 ppm	1.999978	2.000022	-3.42 ppm	9.00 ppm	PASS 30.90 %
1.750000 V	1.750000	1.749938	2.23 ppm	1.74998	1.75002	-3.53 ppm	9.00 ppm	PASS 31.45 %
1.500000 V	1.500000	1.499945	2.47 ppm	1.499983	1.500017	-3.68 ppm	9.00 ppm	PASS 32.08 %
1.250000 V	1.250000	1.249954	2.80 ppm	1.249985	1.250015	-3.68 ppm	9.00 ppm	PASS 31.19 %
1.000000 V	1.000000	0.999967	3.30 ppm	0.9999877	1.000012	-3.28 ppm	9.00 ppm	PASS 26.65 %
0.750000 V	0.750000	0.749976	4.13 ppm	0.7499902	0.7500098	-3.23 ppm	9.00 ppm	PASS 24.56 %
0.500000 V	0.500000	0.499988	5.80 ppm	0.4999926	0.5000074	-2.49 ppm	9.00 ppm	PASS 16.81 %
0.250000 V	0.250000	0.249985	10.80 ppm	0.249995	0.250005	-6.02 ppm	9.00 ppm	PASS 30.42 %
0.100000 V	0.100000	0.099998	25.80 ppm	0.09999652	0.1000035	-1.98 ppm	9.00 ppm	PASS 5.68 %
-0.100000 V	-0.100000	-0.100011	25.80 ppm	-0.1000035	-0.09999652	10.57 ppm	9.00 ppm	PASS 30.37 %
-0.250000 V	-0.250000	-0.250010	10.80 ppm	-0.250005	-0.249995	3.95 ppm	9.00 ppm	PASS 19.96 %
-0.500000 V	-0.500000	-0.500005	5.80 ppm	-0.5000074	-0.4999926	0.91 ppm	9.00 ppm	PASS 6.18 %
-0.750000 V	-0.750000	-0.750000	4.13 ppm	-0.7500098	-0.7499902	0.05 ppm	9.00 ppm	PASS 0.39 %
-1.000000 V	-1.000000	-1.000001	3.30 ppm	-1.000012	-0.9999877	0.08 ppm	9.00 ppm	PASS 0.65 %
-1.250000 V	-1.250000	-1.250014	2.80 ppm	-1.250015	-1.249985	1.14 ppm	9.00 ppm	PASS 9.63 %
-1.500000 V	-1.500000	-1.500019	2.47 ppm	-1.500017	-1.499983	1.25 ppm	9.00 ppm	PASS 10.87 %
-1.750000 V	-1.750000	-1.750024	2.23 ppm	-1.75002	-1.74998	1.39 ppm	9.00 ppm	PASS 12.36 %
-2.000000 V	-2.000000	-2.000029	2.05 ppm	-2.000022	-1.999978	1.43 ppm	9.00 ppm	PASS 12.94 %
-2.250000 V	-2.250000	-2.250038	1.91 ppm	-2.250025	-2.249975	1.68 ppm	9.00 ppm	PASS 15.44 %
-2.500000 V	-2.500000	-2.500037	1.80 ppm	-2.500027	-2.499973	1.48 ppm	9.00 ppm	PASS 13.70 %
-2.750000 V	-2.750000	-2.750039	1.71 ppm	-2.750029	-2.749971	1.44 ppm	9.00 ppm	PASS 13.41 %
-3.000000 V	-3.000000	-3.000042	1.63 ppm	-3.000032	-2.999968	1.38 ppm	9.00 ppm	PASS 13.01 %
-3.250000 V	-3.250000	-3.250042	1.57 ppm	-3.250034	-3.249966	1.29 ppm	9.00 ppm	PASS 12.23 %
-3.500000 V	-3.500000	-3.500039	1.51 ppm	-3.500037	-3.499963	1.11 ppm	9.00 ppm	PASS 10.57 %
-3.750000 V	-3.750000	-3.750032	1.47 ppm	-3.750039	-3.749961	0.85 ppm	9.00 ppm	PASS 8.07 %

-4.000000 V	-4.000000	-4.0000034	1.42 ppm	-4.000042	-3.999958	0.85 ppm	9.00 ppm	PASS 8.16 %
-4.250000 V	-4.250000	-4.2500033	1.39 ppm	-4.250044	-4.249956	0.78 ppm	9.00 ppm	PASS 7.52 %
-4.500000 V	-4.500000	-4.5000023	1.36 ppm	-4.500047	-4.499953	0.51 ppm	9.00 ppm	PASS 4.95 %
-4.750000 V	-4.750000	-4.7500018	1.33 ppm	-4.750049	-4.749951	0.38 ppm	9.00 ppm	PASS 3.67 %
-5.000000 V	-5.000000	-5.0000017	1.30 ppm	-5.000051	-4.999949	0.33 ppm	9.00 ppm	PASS 3.22 %
-5.250000 V	-5.250000	-5.2500001	1.28 ppm	-5.250054	-5.249946	0.03 ppm	9.00 ppm	PASS 0.28 %
-5.500000 V	-5.500000	-5.5000001	1.25 ppm	-5.500056	-5.499944	0.03 ppm	9.00 ppm	PASS 0.27 %
-5.750000 V	-5.750000	-5.7499993	1.23 ppm	-5.750059	-5.749941	-0.13 ppm	9.00 ppm	PASS 1.28 %
-6.000000 V	-6.000000	-5.9999985	1.22 ppm	-6.000061	-5.999939	-0.24 ppm	9.00 ppm	PASS 2.36 %
-6.250000 V	-6.250000	-6.2499978	1.20 ppm	-6.250064	-6.249936	-0.35 ppm	9.00 ppm	PASS 3.40 %
-6.500000 V	-6.500000	-6.4999982	1.18 ppm	-6.500066	-6.499934	-0.28 ppm	9.00 ppm	PASS 2.78 %
-6.750000 V	-6.750000	-6.7499978	1.17 ppm	-6.750069	-6.749931	-0.33 ppm	9.00 ppm	PASS 3.22 %
-7.000000 V	-7.000000	-6.9999962	1.16 ppm	-7.000071	-6.999929	-0.55 ppm	9.00 ppm	PASS 5.39 %
-7.250000 V	-7.250000	-7.2499963	1.14 ppm	-7.250074	-7.249926	-0.50 ppm	9.00 ppm	PASS 4.96 %
-7.500000 V	-7.500000	-7.4999960	1.13 ppm	-7.500076	-7.499924	-0.54 ppm	9.00 ppm	PASS 5.32 %
-7.750000 V	-7.750000	-7.7499952	1.12 ppm	-7.750078	-7.749922	-0.62 ppm	9.00 ppm	PASS 6.15 %
-8.000000 V	-8.000000	-7.9999949	1.11 ppm	-8.000081	-7.999919	-0.64 ppm	9.00 ppm	PASS 6.31 %
-8.250000 V	-8.250000	-8.2499948	1.10 ppm	-8.250083	-8.249917	-0.63 ppm	9.00 ppm	PASS 6.22 %
-8.500000 V	-8.500000	-8.4999948	1.09 ppm	-8.500086	-8.499914	-0.62 ppm	9.00 ppm	PASS 6.12 %
-8.750000 V	-8.750000	-8.7499945	1.09 ppm	-8.750088	-8.749912	-0.63 ppm	9.00 ppm	PASS 6.22 %
-9.000000 V	-9.000000	-8.9999950	1.08 ppm	-9.000091	-8.999909	-0.56 ppm	9.00 ppm	PASS 5.53 %
-9.250000 V	-9.250000	-9.2499952	1.07 ppm	-9.250093	-9.249907	-0.52 ppm	9.00 ppm	PASS 5.17 %
-9.500000 V	-9.500000	-9.4999958	1.06 ppm	-9.500096	-9.499904	-0.45 ppm	9.00 ppm	PASS 4.43 %
-9.750000 V	-9.750000	-9.7499937	1.06 ppm	-9.750098	-9.749902	-0.65 ppm	9.00 ppm	PASS 6.47 %
-10.000000 V	-10.000000	-9.9999950	1.05 ppm	-10.0001	-9.999899	-0.50 ppm	9.00 ppm	PASS 5.01 %
-10.250000 V	-10.250000	-10.2499944	1.04 ppm	-10.2501	-10.2499	-0.55 ppm	9.00 ppm	PASS 5.44 %

Test completed

Test date

17 November 2020 23:26

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

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