

Manufacturer	KEITHLEY INSTRUMENTS	Calibration date	August 31 2018
Model Number	Model 2182	Ambient Temperature	24.96 °C
Serial	MFD	Relative Humidity	53.30 %
ID Number	MMnVM	Pressure	1008.36
Notes	Initial	Test type	HLK5720

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
MFC	HULK	5720A	03/HLK	E2E6	XC01	08/01/2018	09/01/2018
AVMS	Wavetek	4920M	80	29336	XA01	07/11/2017	07/11/2018
DMM	Keithley	2002	MEM2	0603805	XD4	02/25/2018	02/25/2019
STDR	ESI	SR104	10000.0012 KΩ	±1.00 ppm	XR04	06/30/2018	12/30/2018
STDR	xDevs.com/Fluke	SL935	1.00005942 Ω	±0.17 ppm	XR03	05/31/2018	05/31/2019
STDR	xDevs.com/Fluke	SL935	9999.9755 kΩ	±0.33 ppm	XR02	05/31/2018	05/31/2019
DC STD	Wavetek	7000	10.0000007 VDC	±0.9 ppm	XD02	06/07/2018	12/08/2018
DC STD	xDevs.com	792X[2]	10.000009 VDC	±2.2 ppm	XD01	02/16/2018	08/16/2018
Divider	Keithley	262	None	0000	XZ02	08/01/2018	09/01/2018

MFC last calibrated	1.0 days ago	MFC since DCV ZERO	1.0 days ago
MFC since WBFLAT	11199.0 days ago	MFC since WBGAIN	159.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2018-08-30 00:00:00
MFC Calibrate date Zero	2018-08-30 00:00:00	Calibrate date WB Flatness	1988-10-01 00:00:00
Calibrate date WB Gain	2018-03-25 00:00:00	CAL CONST 6.5V reference voltage	6.54040204583
CAL CONST 13V reference voltage	13.0696428765	CAL CONST 22V range positive zero	398.18317
CAL CONST 22V range negative zero	398.17461	CAL CONST DAC Linearity	-0.378248036448
CAL CONST 10KOHM true output resistance	9999.93125606	CAL CONST 10KOHM standard resistance	9998.60633988
CAL CONST, Zero calibration temperature	23.0	CAL CONST, All calibration temp	23.0

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

Meter Info	KEITHLEY INSTRUMENTS INC.,MODEL 2182 ,0776251,A07 /A02	Test date start	31 August 2018 06:00	
Test specification interval	24 hour DUT spec	Line frequency	1	60.0
Next calibration date	2019,04,21	Last calibration date	2018,04,21	
DUT temperature to cal	-2.1	Last calibration temperature	+24.2	

Service information

Last calibration temperature	+24.2
All CAL values	0
Reference	Red/Black 34420 cable, direct to MFC
DUT Condition	Simtes

Test procedure : \$Id: k2182.py | Rev 873 | 2018/08/31 03:05:01 clu \$

Source procedure : \$Id: f5720a.py | Rev 852 | 2018/08/27 07:51:13 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
CH1 Short 00 mVDC	0.0000000E+00	-0.11 µV	7.27 µV	-8.470 µV	8.470 µV	N/A	1.20 µV	PASS
CH1 Short 000 mVDC	0.0000000E+00	-0.04 µV	7.27 µV	-11.270 µV	11.270 µV	N/A	4.00 µV	PASS
CH1 Short 0.0 VDC	0.0000000E+00	0.60 µV	7.27 µV	-87.270 µV	87.270 µV	N/A	80.00 µV	PASS
CH1 Short 00.0 VDC	0.0000000E+00	1.54 µV	3.86 µV	-603.860 µV	603.860 µV	N/A	0.60 mV	PASS
CH1 Short 000.0 VDC	0.0000000E+00	41.75 µV	3.86 µV	-6003.860 µV	6003.860 µV	N/A	6.00 mV	PASS
CH2 Short 000 mVDC	0.0000000E+00	1730506.57 µV	7.27 µV	-9.539 µV	13.001 µV	N/A	4.00 µV	FAIL
CH2 Short 0.0 VDC	0.0000000E+00	1502442.42 µV	3.86 µV	-82.358 µV	85.362 µV	N/A	80.00 µV	FAIL
CH2 Short 00.0 VDC	0.0000000E+00	1263463.73 µV	3.86 µV	-602.597 µV	605.123 µV	N/A	0.60 mV	FAIL
DCV Test	0.01V-100V	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
0.001 VDC (0.010 Range)	0.0010000	0.00099993629	401.60 ppm	0.0009995744	0.0010004256	-63.712 ppm	24.00 ppm	PASS 14.97 %
0.005 VDC (0.010 Range)	0.0050000	0.0049997402	81.60 ppm	0.004999472	0.005000528	-51.957 ppm	24.00 ppm	PASS 49.20 %
0.01 VDC (0.010 Range)	0.0100000	0.0099994085	41.60 ppm	0.009999344	0.010000656	-59.148 ppm	24.00 ppm	PASS 90.16 %
-0.01 VDC (0.010 Range)	-0.0100000	-0.0099994791	41.60 ppm	-0.010000656	-0.009999344	-52.087 ppm	24.00 ppm	PASS 79.40 %
-0.005 VDC (0.010 Range)	-0.0050000	-0.0049995539	81.60 ppm	-0.005000528	-0.004999472	-89.219 ppm	24.00 ppm	PASS 84.49 %
-0.001 VDC (0.010 Range)	-0.0010000	-0.00099961829	401.60 ppm	-0.0010004256	-0.0009995744	-381.715 ppm	24.00 ppm	PASS 89.69 %
0.01 VDC (0.100 Range)	0.0100000	0.0099998713	41.60 ppm	0.009999454	0.010000546	-12.868 ppm	13.00 ppm	PASS 23.57 %
0.05 VDC (0.100 Range)	0.0500000	0.049999814	9.60 ppm	0.04999887	0.05000113	-3.729 ppm	13.00 ppm	PASS 16.50 %
0.1 VDC (0.100 Range)	0.1000000	0.10000125	5.60 ppm	0.09999814	0.10000186	12.505 ppm	13.00 ppm	PASS 67.23 %
-0.1 VDC (0.100 Range)	-0.1000000	-0.099972701	5.60 ppm	-0.10000186	-0.09999814	-272.994 ppm	13.00 ppm	FAIL 1467.71 %
-0.05 VDC (0.100 Range)	-0.0500000	-0.049973799	9.60 ppm	-0.05000113	-0.04999887	-524.016 ppm	13.00 ppm	FAIL 2318.65 %
-0.01 VDC (0.100 Range)	-0.0100000	-0.0099717653	41.60 ppm	-0.010000546	-0.009999454	-2823.469 ppm	13.00 ppm	FAIL 5171.19 %
0.1 VDC (1.000 Range)	0.1000000	0.10000108	8.60 ppm	0.09999824	0.10000176	10.790 ppm	9.00 ppm	PASS 61.31 %
0.5 VDC (1.000 Range)	0.5000000	0.5000021	3.00 ppm	0.499994	0.500006	4.201 ppm	9.00 ppm	PASS 35.01 %
1 VDC (1.000 Range)	1.0000000	0.99999507	2.30 ppm	0.9999887	1.0000113	-4.932 ppm	9.00 ppm	PASS 43.65 %
-1 VDC (1.000 Range)	-1.0000000	-0.99999383	2.30 ppm	-1.0000113	-0.9999887	-6.174 ppm	9.00 ppm	PASS 54.64 %
-0.5 VDC (1.000 Range)	-0.5000000	-0.49999767	3.00 ppm	-0.500006	-0.499994	-4.667 ppm	9.00 ppm	PASS 38.89 %
-0.1 VDC (1.000 Range)	-0.1000000	-0.099998504	8.60 ppm	-0.10000176	-0.09999824	-14.962 ppm	9.00 ppm	PASS 85.01 %
1.0 VDC (10.000 Range)	1.0000000	0.99999421	3.30 ppm	0.9999937	1.0000063	-5.793 ppm	3.00 ppm	PASS 91.96 %
5 VDC (10.000 Range)	5.0000000	5.0000058	1.30 ppm	4.9999785	5.0000215	1.159 ppm	3.00 ppm	PASS 26.95 %
10.0 VDC (10.000 Range)	10.0000000	10.000019	1.10 ppm	9.999959	10.000041	1.875 ppm	3.00 ppm	PASS 45.73 %
-10.0 VDC (10.000 Range)	-10.0000000	-10.000009	1.10 ppm	-10.000041	-9.999959	0.900 ppm	3.00 ppm	PASS 21.95 %
-5.0 VDC (10.000 Range)	-5.0000000	-5.0000213	1.30 ppm	-5.0000215	-4.9999785	4.252 ppm	3.00 ppm	PASS 98.88 %
-1.0 VDC (10.000 Range)	-1.0000000	-0.99999865	3.30 ppm	-1.0000063	-0.9999937	-1.345 ppm	3.00 ppm	PASS 21.36 %

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 Test CH2	0.1V-10V	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
0.01 VDC (0.10 Range)	0.0100000	9.9E+37	41.60 ppm	0.009999344	0.010000656	989999999999998892610716268727401590885974016.000 ppm	24.00 ppm	15091459963842998642570883867615637938263556096.00 % FAIL
0.05 VDC (0.10 Range)	0.0500000	9.9E+37	9.60 ppm	0.04999832	0.05000168	197999999999999524992023208099600018836553728.000 ppm	24.00 ppm	5892843989187522115752476100481436830025121792.00 % FAIL
0.1 VDC (0.10 Range)	0.1000000	9.9E+37	5.60 ppm	0.09999704	0.10000296	98999999999999762496011604049800009418276864.000 ppm	24.00 ppm	3344577645721388431816642326860320577274511360.00 % FAIL
-0.1 VDC (0.10 Range)	-0.1000000	9.9E+37	5.60 ppm	-0.10000296	-0.09999704	-98999999999999762496011604049800009418276864.000 ppm	24.00 ppm	3344611543639578468322382360913127447227006976.00 % FAIL
-0.05 VDC (0.10 Range)	-0.0500000	9.9E+37	9.60 ppm	-0.05000168	-0.04999832	-197999999999999524992023208099600018836553728.000 ppm	24.00 ppm	5892870296585481184030148425359312971953602560.00 % FAIL
-0.01 VDC (0.10 Range)	-0.0100000	9.9E+37	41.60 ppm	-0.010000656	-0.009999344	-989999999999998892610716268727401590885974016.000 ppm	24.00 ppm	15091466865426872259261887069889956237748994048.00 % FAIL
0.1 VDC (1.00 Range)	0.1000000	9.9E+37	8.60 ppm	0.09999784	0.10000216	98999999999999762496011604049800009418276864.000 ppm	13.00 ppm	4583301504850659647871209060528512932031496192.00 % FAIL
0.5 VDC (1.00 Range)	0.5000000	9.9E+37	3.00 ppm	0.499992	0.500008	19799999999999968344834823662827520592445440.000 ppm	13.00 ppm	1237441994906488249171666085614628159778455552.00 % FAIL
1 VDC (1.00 Range)	1.0000000	9.9E+37	2.30 ppm	0.9999847	1.0000153	9899999999999984172417411831413760296222720.000 ppm	13.00 ppm	647058823529411751878077462925966269061529600.00 % FAIL
-1 VDC (1.00 Range)	-1.0000000	9.9E+37	2.30 ppm	-1.0000153	-0.9999847	-9899999999999984172417411831413760296222720.000 ppm	13.00 ppm	717391304347825809214632302756100606737252352.00 % FAIL
-0.5 VDC (1.00 Range)	-0.5000000	9.9E+37	3.00 ppm	-0.500008	-0.499992	-19799999999999968344834823662827520592445440.000 ppm	13.00 ppm	1237558010531743323990219053937991710983323648.00 % FAIL
-0.1 VDC (1.00 Range)	-0.1000000	9.9E+37	8.60 ppm	-0.10000216	-0.09999784	-98999999999999762496011604049800009418276864.000 ppm	13.00 ppm	4583365162258070312950955076033555673672318976.00 % FAIL
1.0 VDC (10.00 Range)	1.0000000	0.15028102	3.30 ppm	0.9999877	1.0000123	-849718.976 ppm	9.00 ppm	FAIL 6908284.36 %
5 VDC (10.00 Range)	5.0000000	0.012283187	1.30 ppm	4.9999485	5.0000515	-997543.363 ppm	9.00 ppm	FAIL 9684887.02 %
10.0 VDC (10.00 Range)	10.0000000	0.0014993498	1.10 ppm	9.999899	10.000101	-999850.065 ppm	9.00 ppm	FAIL 9899505.59 %
-10.0 VDC (10.00 Range)	-10.0000000	-0.006495317	1.10 ppm	-10.000101	-9.999899	-999350.468 ppm	9.00 ppm	FAIL 9894559.09 %
-5.0 VDC (10.00 Range)	-5.0000000	0.071364115	1.30 ppm	-5.0000515	-4.9999485	-1014272.823 ppm	9.00 ppm	FAIL 9847308.96 %
-1.0 VDC (10.00 Range)	-1.0000000	-0.0037655686	3.30 ppm	-1.0000123	-0.9999877	-996234.431 ppm	9.00 ppm	FAIL 8099466.92 %

DCV Linearity	10 mV Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.25000 mV	0.010250	0.0102497	40.62 ppm	0.01024949	0.01025051	-33.00 ppm	9.00 ppm	PASS 66.50 %
10.00000 mV	0.010000	0.00999959	41.60 ppm	0.009999494	0.01000051	-40.79 ppm	9.00 ppm	PASS 80.61 %
9.75000 mV	0.009750	0.0097497	42.63 ppm	0.009749497	0.009750503	-32.21 ppm	9.00 ppm	PASS 62.38 %
9.50000 mV	0.009500	0.0094997	43.71 ppm	0.009499499	0.009500501	-36.18 ppm	9.00 ppm	PASS 68.64 %
9.25000 mV	0.009250	0.0092497	44.84 ppm	0.009249502	0.009250498	-34.65 ppm	9.00 ppm	PASS 64.36 %
9.00000 mV	0.009000	0.0089997	46.04 ppm	0.008999505	0.009000495	-36.99 ppm	9.00 ppm	PASS 67.20 %
8.75000 mV	0.008750	0.0087497	47.31 ppm	0.008749507	0.008750493	-36.36 ppm	9.00 ppm	PASS 64.58 %
8.50000 mV	0.008500	0.0084997	48.66 ppm	0.00849951	0.00850049	-34.46 ppm	9.00 ppm	PASS 59.76 %
8.25000 mV	0.008250	0.0082497	50.08 ppm	0.008249513	0.008250487	-35.24 ppm	9.00 ppm	PASS 59.64 %
8.00000 mV	0.008000	0.0079997	51.60 ppm	0.007999515	0.008000485	-35.79 ppm	9.00 ppm	PASS 59.06 %
7.75000 mV	0.007750	0.0077497	53.21 ppm	0.007749518	0.007750482	-40.04 ppm	9.00 ppm	PASS 64.37 %
7.50000 mV	0.007500	0.0074998	54.93 ppm	0.007499521	0.007500479	-32.43 ppm	9.00 ppm	PASS 50.72 %
7.25000 mV	0.007250	0.0072497	56.77 ppm	0.007249523	0.007250477	-37.34 ppm	9.00 ppm	PASS 56.78 %
7.00000 mV	0.007000	0.0069998	58.74 ppm	0.006999526	0.007000474	-27.93 ppm	9.00 ppm	PASS 41.23 %
6.75000 mV	0.006750	0.0067497	60.86 ppm	0.006749528	0.006750472	-39.28 ppm	9.00 ppm	PASS 56.22 %
6.50000 mV	0.006500	0.0064998	63.14 ppm	0.006499531	0.006500469	-26.88 ppm	9.00 ppm	PASS 37.26 %
6.25000 mV	0.006250	0.0062498	65.60 ppm	0.006249534	0.006250466	-36.96 ppm	9.00 ppm	PASS 49.54 %
6.00000 mV	0.006000	0.0059999	68.27 ppm	0.005999536	0.006000464	-23.12 ppm	9.00 ppm	PASS 29.92 %
5.75000 mV	0.005750	0.0057498	71.17 ppm	0.005749539	0.005750461	-35.57 ppm	9.00 ppm	PASS 44.37 %
5.50000 mV	0.005500	0.0054999	74.33 ppm	0.005499542	0.005500458	-24.88 ppm	9.00 ppm	PASS 29.86 %
5.25000 mV	0.005250	0.0052498	77.79 ppm	0.005249544	0.005250456	-35.07 ppm	9.00 ppm	PASS 40.41 %
5.00000 mV	0.005000	0.0049999	81.60 ppm	0.004999547	0.005000453	-21.15 ppm	9.00 ppm	PASS 23.34 %
4.75000 mV	0.004750	0.0047498	85.81 ppm	0.00474955	0.00475045	-33.17 ppm	9.00 ppm	PASS 34.99 %
4.50000 mV	0.004500	0.0044999	90.49 ppm	0.004499552	0.004500448	-25.58 ppm	9.00 ppm	PASS 25.71 %

4.25000 mV	0.004250	0.0042499	95.72 ppm	0.004249555	0.004250445	-33.87 ppm	9.00 ppm	PASS 32.34 %
4.00000 mV	0.004000	0.0039999	101.60 ppm	0.003999558	0.004000442	-22.93 ppm	9.00 ppm	PASS 20.73 %
3.75000 mV	0.003750	0.0037499	108.27 ppm	0.00374956	0.00375044	-28.00 ppm	9.00 ppm	PASS 23.87 %
3.50000 mV	0.003500	0.0034999	115.89 ppm	0.003499563	0.003500437	-15.47 ppm	9.00 ppm	PASS 12.39 %
3.25000 mV	0.003250	0.0032499	124.68 ppm	0.003249566	0.003250434	-29.56 ppm	9.00 ppm	PASS 22.11 %
3.00000 mV	0.003000	0.0029999	134.93 ppm	0.002999568	0.003000432	-23.58 ppm	9.00 ppm	PASS 16.38 %
2.75000 mV	0.002750	0.0027500	147.05 ppm	0.002749571	0.002750429	-12.05 ppm	9.00 ppm	PASS 7.72 %
2.50000 mV	0.002500	0.0025000	161.60 ppm	0.002499573	0.002500427	-9.55 ppm	9.00 ppm	PASS 5.60 %
2.25000 mV	0.002250	0.0022500	179.38 ppm	0.002249576	0.002250424	-13.76 ppm	9.00 ppm	PASS 7.31 %
2.00000 mV	0.002000	0.0019999	201.60 ppm	0.001999579	0.002000421	-28.88 ppm	9.00 ppm	PASS 13.71 %
1.75000 mV	0.001750	0.0017500	230.17 ppm	0.001749581	0.001750419	5.93 ppm	9.00 ppm	PASS 2.48 %
1.50000 mV	0.001500	0.0015000	268.27 ppm	0.001499584	0.001500416	-20.63 ppm	9.00 ppm	PASS 7.44 %
1.25000 mV	0.001250	0.0012500	321.60 ppm	0.001249587	0.001250413	38.52 ppm	9.00 ppm	PASS 11.65 %
1.00000 mV	0.001000	0.0010000	401.60 ppm	0.0009995894	0.001000411	-33.42 ppm	9.00 ppm	PASS 8.14 %
0.75000 mV	0.000750	0.0007501	534.93 ppm	0.0007495921	0.0007504079	89.69 ppm	9.00 ppm	PASS 16.49 %
0.50000 mV	0.000500	0.0005000	801.60 ppm	0.0004995947	0.0005004053	9.66 ppm	9.00 ppm	PASS 1.19 %
0.25000 mV	0.000250	0.0002501	1601.60 ppm	0.0002495974	0.0002504026	445.57 ppm	9.00 ppm	PASS 27.66 %
0.10000 mV	0.000100	0.0001000	4001.60 ppm	9.959894E-05	0.0001004011	285.37 ppm	9.00 ppm	PASS 7.12 %
-0.25000 mV	-0.000250	-0.0002498	1601.60 ppm	-0.0002504026	-0.0002495974	-665.90 ppm	9.00 ppm	PASS 41.35 %
-0.50000 mV	-0.000500	-0.0004999	801.60 ppm	-0.0005004053	-0.0004995947	-234.77 ppm	9.00 ppm	PASS 28.96 %
-0.75000 mV	-0.000750	-0.0007499	534.93 ppm	-0.0007504079	-0.0007495921	-196.72 ppm	9.00 ppm	PASS 36.17 %
-1.00000 mV	-0.001000	-0.0009999	401.60 ppm	-0.001000411	-0.0009995894	-124.11 ppm	9.00 ppm	PASS 30.23 %
-1.25000 mV	-0.001250	-0.0012498	321.60 ppm	-0.001250413	-0.001249587	-157.49 ppm	9.00 ppm	PASS 47.64 %
-1.50000 mV	-0.001500	-0.0014998	268.27 ppm	-0.001500416	-0.001499584	-118.99 ppm	9.00 ppm	PASS 42.91 %
-1.75000 mV	-0.001750	-0.0017498	230.17 ppm	-0.001750419	-0.001749581	-126.38 ppm	9.00 ppm	PASS 52.84 %
-2.00000 mV	-0.002000	-0.0019998	201.60 ppm	-0.002000421	-0.001999579	-86.94 ppm	9.00 ppm	PASS 41.28 %
-2.25000 mV	-0.002250	-0.0022498	179.38 ppm	-0.002250424	-0.002249576	-108.72 ppm	9.00 ppm	PASS 57.72 %
-2.50000 mV	-0.002500	-0.0024998	161.60 ppm	-0.002500427	-0.002499573	-94.94 ppm	9.00 ppm	PASS 55.65 %
-2.75000 mV	-0.002750	-0.0027497	147.05 ppm	-0.002750429	-0.002749571	-92.38 ppm	9.00 ppm	PASS 59.20 %
-3.00000 mV	-0.003000	-0.0029997	134.93 ppm	-0.003000432	-0.002999568	-88.63 ppm	9.00 ppm	PASS 61.58 %
-3.25000 mV	-0.003250	-0.0032498	124.68 ppm	-0.003250434	-0.003249566	-69.75 ppm	9.00 ppm	PASS 52.18 %
-3.50000 mV	-0.003500	-0.0034997	115.89 ppm	-0.003500437	-0.003499563	-83.93 ppm	9.00 ppm	PASS 67.21 %
-3.75000 mV	-0.003750	-0.0037497	108.27 ppm	-0.00375044	-0.00374956	-72.82 ppm	9.00 ppm	PASS 62.10 %
-4.00000 mV	-0.004000	-0.0039997	101.60 ppm	-0.004000442	-0.003999558	-82.89 ppm	9.00 ppm	PASS 74.95 %
-4.25000 mV	-0.004250	-0.0042497	95.72 ppm	-0.004250445	-0.004249555	-61.55 ppm	9.00 ppm	PASS 58.77 %
-4.50000 mV	-0.004500	-0.00449963	90.49 ppm	-0.004500448	-0.004499552	-81.52 ppm	9.00 ppm	PASS 81.94 %
-4.75000 mV	-0.004750	-0.0047497	85.81 ppm	-0.00475045	-0.00474955	-63.15 ppm	9.00 ppm	PASS 66.61 %
-5.00000 mV	-0.005000	-0.00499961	81.60 ppm	-0.005000453	-0.004999547	-77.65 ppm	9.00 ppm	PASS 85.71 %
-5.25000 mV	-0.005250	-0.0052497	77.79 ppm	-0.005250456	-0.005249544	-60.35 ppm	9.00 ppm	PASS 69.54 %
-5.50000 mV	-0.005500	-0.00549962	74.33 ppm	-0.005500458	-0.005499542	-69.03 ppm	9.00 ppm	PASS 82.84 %
-5.75000 mV	-0.005750	-0.0057497	71.17 ppm	-0.005750461	-0.005749539	-59.14 ppm	9.00 ppm	PASS 73.77 %
-6.00000 mV	-0.006000	-0.00599958	68.27 ppm	-0.006000464	-0.005999536	-69.94 ppm	9.00 ppm	PASS 90.51 %
-6.25000 mV	-0.006250	-0.0062496	65.60 ppm	-0.006250466	-0.006249534	-59.59 ppm	9.00 ppm	PASS 79.88 %
-6.50000 mV	-0.006500	-0.00649954	63.14 ppm	-0.006500469	-0.006499531	-70.66 ppm	9.00 ppm	PASS 97.95 %
-6.75000 mV	-0.006750	-0.00674961	60.86 ppm	-0.006750472	-0.006749528	-57.40 ppm	9.00 ppm	PASS 82.16 %
-7.00000 mV	-0.007000	-0.00699954	58.74 ppm	-0.007000474	-0.006999526	-66.19 ppm	9.00 ppm	PASS 97.71 %
-7.25000 mV	-0.007250	-0.00724955	56.77 ppm	-0.007250477	-0.007249523	-61.68 ppm	9.00 ppm	PASS 93.79 %
-7.50000 mV	-0.007500	-0.0074995	54.93 ppm	-0.007500479	-0.007499521	-66.55 ppm	9.00 ppm	FAIL 104.10 %
-7.75000 mV	-0.007750	-0.00774953	53.21 ppm	-0.007750482	-0.007749518	-60.61 ppm	9.00 ppm	PASS 97.43 %
-8.00000 mV	-0.008000	-0.0079995	51.60 ppm	-0.008000485	-0.007999515	-61.59 ppm	9.00 ppm	FAIL 101.64 %
-8.25000 mV	-0.008250	-0.0082495	50.08 ppm	-0.008250487	-0.008249513	-62.23 ppm	9.00 ppm	FAIL 105.32 %
-8.50000 mV	-0.008500	-0.0084995	48.66 ppm	-0.00850049	-0.00849951	-61.74 ppm	9.00 ppm	FAIL 107.07 %
-8.75000 mV	-0.008750	-0.0087494	47.31 ppm	-0.008750493	-0.008749507	-64.25 ppm	9.00 ppm	FAIL 114.11 %
-9.00000 mV	-0.009000	-0.0089995	46.04 ppm	-0.009000495	-0.008999505	-55.46 ppm	9.00 ppm	FAIL 100.77 %
-9.25000 mV	-0.009250	-0.0092495	44.84 ppm	-0.009250498	-0.009249502	-59.07 ppm	9.00 ppm	FAIL 109.72 %
-9.50000 mV	-0.009500	-0.0094995	43.71 ppm	-0.009500501	-0.009499499	-56.20 ppm	9.00 ppm	FAIL 106.62 %
-9.75000 mV	-0.009750	-0.0097494	42.63 ppm	-0.009750503	-0.009749497	-64.50 ppm	9.00 ppm	FAIL 124.93 %
-10.00000 mV	-0.010000	-0.0099994	41.60 ppm	-0.01000051	-0.009999494	-58.73 ppm	9.00 ppm	FAIL 116.06 %
-10.25000 mV	-0.010250	-0.0102494	40.62 ppm	-0.01025051	-0.01024949	-60.14 ppm	9.00 ppm	FAIL 121.19 %
DCV Linearity	100 mV Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
102.50000 mV	0.102500	0.1024989	5.50 ppm	0.1024985	0.1025015	-10.99 ppm	9.00 ppm	PASS 75.76 %
100.00000 mV	0.100000	0.09999880	5.60 ppm	0.09999854	0.1000015	-12.01 ppm	9.00 ppm	PASS 82.28 %
97.50000 mV	0.097500	0.0974984	5.70 ppm	0.09749857	0.09750143	-16.69 ppm	9.00 ppm	FAIL 113.57 %
95.00000 mV	0.095000	0.0949985	5.81 ppm	0.09499859	0.09500141	-15.84 ppm	9.00 ppm	FAIL 106.93 %
92.50000 mV	0.092500	0.09249884	5.92 ppm	0.09249862	0.09250138	-12.52 ppm	9.00 ppm	PASS 83.93 %
90.00000 mV	0.090000	0.08999888	6.04 ppm	0.08999865	0.09000135	-12.41 ppm	9.00 ppm	PASS 82.48 %
87.50000 mV	0.087500	0.08749870	6.17 ppm	0.08749867	0.08750133	-14.81 ppm	9.00 ppm	PASS 97.61 %
85.00000 mV	0.085000	0.08499875	6.31 ppm	0.0849987	0.0850013	-14.71 ppm	9.00 ppm	PASS 96.10 %
82.50000 mV	0.082500	0.08249889	6.45 ppm	0.08249873	0.08250127	-13.43 ppm	9.00 ppm	PASS 86.93 %
80.00000 mV	0.080000	0.07999886	6.60 ppm	0.07999875	0.08000125	-14.30 ppm	9.00 ppm	PASS 91.64 %
77.50000 mV	0.077500	0.0774991	6.76 ppm	0.07749878	0.07750122	-11.89 ppm	9.00 ppm	PASS 75.45 %
75.00000 mV	0.075000	0.07499887	6.93 ppm	0.07499881	0.07500119	-15.12 ppm	9.00 ppm	PASS 94.92 %
72.50000 mV	0.072500	0.0724992	7.12 ppm	0.07249883	0.07250117	-11.34 ppm	9.00 ppm	PASS 70.37 %
70.00000 mV	0.070000	0.06999891	7.31 ppm	0.06999886	0.07000114	-15.62 ppm	9.00 ppm	PASS 95.74 %
67.50000 mV	0.067500	0.0674993	7.53 ppm	0.06749888	0.06750112	-10.88 ppm	9.00 ppm	PASS 65.81 %
65.00000 mV	0.065000	0.06499899	7.75 ppm	0.06499891	0.06500109	-15.53 ppm	9.00 ppm	PASS 92.73 %
62.50000 mV	0.062500	0.0624992	8.00 ppm	0.06249894	0.06250106	-12.84 ppm	9.00 ppm	PASS 75.53 %
60.00000 mV	0.060000	0.05999904	8.27 ppm	0.05999896	0.06000104	-15.97 ppm	9.00 ppm	PASS 92.46 %
57.50000 mV	0.057500	0.0574992	8.56 ppm	0.05749899	0.05750101	-13.76 ppm	9.00 ppm	PASS 78.37 %
55.00000 mV	0.055000	0.05499920	8.87 ppm	0.05499902	0.05500098	-14.50 ppm	9.00 ppm	PASS 81.16 %
52.50000 mV	0.052500	0.05249920	9.22 ppm	0.05249904	0.05250096	-15.15 ppm	9.00 ppm	PASS 83.17 %
50.00000 mV	0.050000	0.04999921	9.60 ppm	0.04999907	0.05000093	-15.81 ppm	9.00 ppm	PASS 84.98 %
47.50000 mV	0.047500	0.0474994	10.02 ppm	0.0474991	0.0475009	-12.72 ppm	9.00 ppm	PASS 66.85 %
45.00000 mV	0.045000	0.04499924	10.49 ppm	0.04499912	0.04500088	-16.99 ppm	9.00 ppm	PASS 87.16 %
42.50000 mV	0.042500	0.0424994	11.01 ppm	0.04249915	0.04250085	-14.57 ppm	9.00 ppm	PASS 72.81 %
40.00000 mV	0.040000	0.0399994	11.60 ppm	0.03999918	0.04000082	-15.11 ppm	9.00 ppm	PASS 73.34 %
37.50000 mV	0.037500	0.0374994	12.27 ppm	0.0374992	0.0375008	-15.54 ppm	9.00 ppm	PASS 73.04 %

35.00000 mV	0.035000	0.0349994	13.03 ppm	0.03499923	0.03500077	-16.49 ppm	9.00 ppm	PASS 74.83 %
32.50000 mV	0.032500	0.03249939	13.91 ppm	0.03249926	0.03250074	-18.81 ppm	9.00 ppm	PASS 82.09 %
30.00000 mV	0.030000	0.0299994	14.93 ppm	0.02999928	0.03000072	-18.59 ppm	9.00 ppm	PASS 77.68 %
27.50000 mV	0.027500	0.0274996	16.15 ppm	0.02749931	0.02750069	-16.36 ppm	9.00 ppm	PASS 65.06 %
25.00000 mV	0.025000	0.0249997	17.60 ppm	0.02499934	0.02500067	-12.98 ppm	9.00 ppm	PASS 48.78 %
22.50000 mV	0.022500	0.0224998	19.38 ppm	0.02249936	0.02250064	-10.46 ppm	9.00 ppm	PASS 36.85 %
20.00000 mV	0.020000	0.0199998	21.60 ppm	0.01999939	0.02000061	-10.71 ppm	9.00 ppm	PASS 35.00 %
17.50000 mV	0.017500	0.0174999	24.46 ppm	0.01749941	0.01750059	-6.82 ppm	9.00 ppm	PASS 20.37 %
15.00000 mV	0.015000	0.0149999	28.27 ppm	0.01499944	0.01500056	-3.77 ppm	9.00 ppm	PASS 10.11 %
12.50000 mV	0.012500	0.0124999	33.60 ppm	0.01249947	0.01250053	-6.99 ppm	9.00 ppm	PASS 16.41 %
10.00000 mV	0.010000	0.0100000	41.60 ppm	0.009999494	0.01000051	1.38 ppm	9.00 ppm	PASS 2.73 %
7.50000 mV	0.007500	0.0075001	54.93 ppm	0.007499521	0.007500479	8.64 ppm	9.00 ppm	PASS 13.52 %
5.00000 mV	0.005000	0.0050001	81.60 ppm	0.004999547	0.005000453	12.99 ppm	9.00 ppm	PASS 14.34 %
2.50000 mV	0.002500	0.0025001	161.60 ppm	0.002499573	0.002500427	59.32 ppm	9.00 ppm	PASS 34.77 %
1.00000 mV	0.001000	0.0010001	401.60 ppm	0.0009995894	0.001000411	54.08 ppm	9.00 ppm	PASS 13.17 %
-2.50000 mV	-0.002500	-0.0024998	161.60 ppm	-0.002500427	-0.002499573	-82.30 ppm	9.00 ppm	PASS 48.24 %
-5.00000 mV	-0.005000	-0.0049998	81.60 ppm	-0.005000453	-0.004999547	-43.15 ppm	9.00 ppm	PASS 47.63 %
-7.50000 mV	-0.007500	-0.0074997	54.93 ppm	-0.007500479	-0.007499521	-40.16 ppm	9.00 ppm	PASS 62.81 %
-10.00000 mV	-0.010000	-0.0099997	41.60 ppm	-0.01000051	-0.009999494	-29.81 ppm	9.00 ppm	PASS 58.92 %
-12.50000 mV	-0.012500	-0.0124997	33.60 ppm	-0.01250053	-0.01249947	-24.54 ppm	9.00 ppm	PASS 57.60 %
-15.00000 mV	-0.015000	-0.0149997	28.27 ppm	-0.01500056	-0.01499944	-22.07 ppm	9.00 ppm	PASS 59.23 %
-17.50000 mV	-0.017500	-0.0174996	24.46 ppm	-0.01750059	-0.01749941	-20.65 ppm	9.00 ppm	PASS 61.72 %
-20.00000 mV	-0.020000	-0.0199996	21.60 ppm	-0.02000061	-0.01999939	-18.88 ppm	9.00 ppm	PASS 61.70 %
-22.50000 mV	-0.022500	-0.0224995	19.38 ppm	-0.02250064	-0.02249936	-20.49 ppm	9.00 ppm	PASS 72.19 %
-25.00000 mV	-0.025000	-0.0249995	17.60 ppm	-0.02500067	-0.02499934	-19.35 ppm	9.00 ppm	PASS 72.74 %
-27.50000 mV	-0.027500	-0.0274995	16.15 ppm	-0.02750069	-0.02749931	-17.16 ppm	9.00 ppm	PASS 68.22 %
-30.00000 mV	-0.030000	-0.0299994	14.93 ppm	-0.03000072	-0.02999928	-18.38 ppm	9.00 ppm	PASS 76.79 %
-32.50000 mV	-0.032500	-0.0324995	13.91 ppm	-0.03250074	-0.03249926	-14.39 ppm	9.00 ppm	PASS 62.81 %
-35.00000 mV	-0.035000	-0.0349994	13.03 ppm	-0.03500077	-0.03499923	-16.72 ppm	9.00 ppm	PASS 75.90 %
-37.50000 mV	-0.037500	-0.0374995	12.27 ppm	-0.0375008	-0.0374992	-14.54 ppm	9.00 ppm	PASS 68.38 %
-40.00000 mV	-0.040000	-0.03999933	11.60 ppm	-0.04000082	-0.03999918	-16.81 ppm	9.00 ppm	PASS 81.60 %
-42.50000 mV	-0.042500	-0.0424994	11.01 ppm	-0.04250085	-0.04249915	-15.09 ppm	9.00 ppm	PASS 75.41 %
-45.00000 mV	-0.045000	-0.04499924	10.49 ppm	-0.04500088	-0.04499912	-16.83 ppm	9.00 ppm	PASS 86.33 %
-47.50000 mV	-0.047500	-0.04749920	10.02 ppm	-0.0475009	-0.0474991	-16.74 ppm	9.00 ppm	PASS 88.01 %
-50.00000 mV	-0.050000	-0.04999916	9.60 ppm	-0.05000093	-0.04999907	-16.78 ppm	9.00 ppm	PASS 90.22 %
-52.50000 mV	-0.052500	-0.05249915	9.22 ppm	-0.05250096	-0.05249904	-16.16 ppm	9.00 ppm	PASS 88.71 %
-55.00000 mV	-0.055000	-0.05499910	8.87 ppm	-0.05500098	-0.05499902	-16.33 ppm	9.00 ppm	PASS 91.40 %
-57.50000 mV	-0.057500	-0.0574989	8.56 ppm	-0.05750101	-0.05749899	-18.64 ppm	9.00 ppm	FAIL 106.17 %
-60.00000 mV	-0.060000	-0.0599992	8.27 ppm	-0.06000104	-0.05999896	-13.58 ppm	9.00 ppm	PASS 78.66 %
-62.50000 mV	-0.062500	-0.06249907	8.00 ppm	-0.06250106	-0.06249894	-14.90 ppm	9.00 ppm	PASS 87.67 %
-65.00000 mV	-0.065000	-0.0649988	7.75 ppm	-0.06500109	-0.06499891	-18.21 ppm	9.00 ppm	FAIL 108.71 %
-67.50000 mV	-0.067500	-0.0674988	7.53 ppm	-0.06750112	-0.06749888	-18.43 ppm	9.00 ppm	FAIL 111.48 %
-70.00000 mV	-0.070000	-0.0699989	7.31 ppm	-0.07000114	-0.06999886	-16.38 ppm	9.00 ppm	FAIL 100.42 %
-72.50000 mV	-0.072500	-0.0724987	7.12 ppm	-0.07250117	-0.07249883	-17.54 ppm	9.00 ppm	FAIL 108.82 %
-75.00000 mV	-0.075000	-0.0749985	6.93 ppm	-0.07500119	-0.07499881	-20.58 ppm	9.00 ppm	FAIL 129.19 %
-77.50000 mV	-0.077500	-0.0774984	6.76 ppm	-0.07750122	-0.07749878	-20.81 ppm	9.00 ppm	FAIL 132.05 %
-80.00000 mV	-0.080000	-0.07999880	6.60 ppm	-0.08000125	-0.07999875	-14.95 ppm	9.00 ppm	PASS 95.85 %
-82.50000 mV	-0.082500	-0.0824986	6.45 ppm	-0.08250127	-0.08249873	-16.59 ppm	9.00 ppm	FAIL 107.36 %
-85.00000 mV	-0.085000	-0.0849984	6.31 ppm	-0.0850013	-0.0849987	-18.60 ppm	9.00 ppm	FAIL 121.50 %
-87.50000 mV	-0.087500	-0.08749870	6.17 ppm	-0.08750133	-0.08749867	-14.83 ppm	9.00 ppm	PASS 97.74 %
-90.00000 mV	-0.090000	-0.0899984	6.04 ppm	-0.09000135	-0.08999865	-17.43 ppm	9.00 ppm	FAIL 115.90 %
-92.50000 mV	-0.092500	-0.0924985	5.92 ppm	-0.09250138	-0.09249862	-16.62 ppm	9.00 ppm	FAIL 111.43 %
-95.00000 mV	-0.095000	-0.0949983	5.81 ppm	-0.09500141	-0.09499859	-18.04 ppm	9.00 ppm	FAIL 121.79 %
-97.50000 mV	-0.097500	-0.0974980	5.70 ppm	-0.09750143	-0.09749857	-20.78 ppm	9.00 ppm	FAIL 141.38 %
-100.00000 mV	-0.100000	-0.0999984	5.60 ppm	-0.1000015	-0.09999854	-16.26 ppm	9.00 ppm	FAIL 111.36 %
-102.50000 mV	-0.102500	-0.1024988	5.50 ppm	-0.1025015	-0.1024985	-11.34 ppm	9.00 ppm	PASS 78.18 %
DCV Linearity	1V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
1.025000 V	1.0250000	1.0249952	2.28 ppm	1.024988	1.025012	-4.67 ppm	9.00 ppm	PASS 41.43 %
1.000000 V	1.0000000	0.9999951	2.30 ppm	0.9999887	1.000011	-4.90 ppm	9.00 ppm	PASS 43.38 %
0.975000 V	0.9750000	0.9749957	2.32 ppm	0.974989	0.975011	-4.45 ppm	9.00 ppm	PASS 39.32 %
0.950000 V	0.9500000	0.9499960	2.34 ppm	0.9499892	0.9500108	-4.20 ppm	9.00 ppm	PASS 37.03 %
0.925000 V	0.9250000	0.9249971	2.36 ppm	0.9249895	0.9250105	-3.10 ppm	9.00 ppm	PASS 27.30 %
0.900000 V	0.9000000	0.8999947	2.38 ppm	0.8999898	0.9000102	-5.85 ppm	9.00 ppm	PASS 51.39 %
0.875000 V	0.8750000	0.8749967	2.40 ppm	0.87499	0.87501	-3.78 ppm	9.00 ppm	PASS 33.14 %
0.850000 V	0.8500000	0.8499963	2.42 ppm	0.8499903	0.8500097	-4.34 ppm	9.00 ppm	PASS 38.03 %
0.825000 V	0.8250000	0.8249965	2.45 ppm	0.8249906	0.8250094	-4.26 ppm	9.00 ppm	PASS 37.24 %
0.800000 V	0.8000000	0.7999959	2.48 ppm	0.7999908	0.8000092	-5.09 ppm	9.00 ppm	PASS 44.37 %
0.775000 V	0.7750000	0.7749971	2.50 ppm	0.7749911	0.7750089	-3.78 ppm	9.00 ppm	PASS 32.83 %
0.750000 V	0.7500000	0.7499963	2.53 ppm	0.7499914	0.7500086	-4.97 ppm	9.00 ppm	PASS 43.13 %
0.725000 V	0.7250000	0.7249964	2.57 ppm	0.7249916	0.7250084	-5.00 ppm	9.00 ppm	PASS 43.23 %
0.700000 V	0.7000000	0.6999966	2.60 ppm	0.6999919	0.7000081	-4.81 ppm	9.00 ppm	PASS 41.49 %
0.675000 V	0.6750000	0.6749968	2.64 ppm	0.6749921	0.6750079	-4.80 ppm	9.00 ppm	PASS 41.28 %
0.650000 V	0.6500000	0.6499972	2.68 ppm	0.6499924	0.6500076	-4.23 ppm	9.00 ppm	PASS 36.22 %
0.625000 V	0.6250000	0.6249970	2.72 ppm	0.6249927	0.6250073	-4.82 ppm	9.00 ppm	PASS 41.16 %
0.600000 V	0.6000000	0.5999974	2.77 ppm	0.5999929	0.6000071	-4.41 ppm	9.00 ppm	PASS 37.50 %
0.575000 V	0.5750000	0.5749970	2.82 ppm	0.5749932	0.5750068	-5.16 ppm	9.00 ppm	PASS 43.67 %
0.550000 V	0.5500000	0.5499974	2.87 ppm	0.5499935	0.5500065	-4.78 ppm	9.00 ppm	PASS 40.24 %
0.525000 V	0.5250000	0.5249973	2.93 ppm	0.5249937	0.5250063	-5.09 ppm	9.00 ppm	PASS 42.68 %
0.500000 V	0.5000000	0.4999980	3.00 ppm	0.499994	0.500006	-4.02 ppm	9.00 ppm	PASS 33.48 %
0.475000 V	0.4750000	0.4749980	3.07 ppm	0.4749943	0.4750057	-4.16 ppm	9.00 ppm	PASS 34.45 %
0.450000 V	0.4500000	0.4499984	3.16 ppm	0.4499945	0.4500055	-3.65 ppm	9.00 ppm	PASS 30.01 %
0.425000 V	0.4250000	0.4249981	3.25 ppm	0.4249948	0.4250052	-4.41 ppm	9.00 ppm	PASS 35.98 %
0.400000 V	0.4000000	0.3999980	3.35 ppm	0.3999951	0.4000049	-5.04 ppm	9.00 ppm	PASS 40.81 %
0.375000 V	0.3750000	0.3749976	3.47 ppm	0.3749953	0.3750047	-6.27 ppm	9.00 ppm	PASS 50.28 %
0.350000 V	0.3500000	0.3499979	3.60 ppm	0.3499956	0.3500044	-5.88 ppm	9.00 ppm	PASS 46.64 %
0.325000 V	0.3250000	0.3249984	3.75 ppm	0.3249959	0.3250041	-5.03 ppm	9.00 ppm	PASS 39.46 %
0.300000 V	0.3000000	0.2999990	3.93 ppm	0.2999961	0.3000039	-3.20 ppm	9.00 ppm	PASS 24.75 %

0.275000 V	0.2750000	0.2749989	4.15 ppm	0.2749964	0.2750036	-3.93 ppm	9.00 ppm	PASS 29.87 %
0.250000 V	0.2500000	0.2499990	4.40 ppm	0.2499966	0.2500034	-3.86 ppm	9.00 ppm	PASS 28.84 %
0.225000 V	0.2250000	0.2249994	4.71 ppm	0.2249969	0.2250031	-2.52 ppm	9.00 ppm	PASS 18.35 %
0.200000 V	0.2000000	0.1999997	5.10 ppm	0.1999972	0.2000028	-1.70 ppm	9.00 ppm	PASS 12.06 %
0.175000 V	0.1750000	0.1749992	5.60 ppm	0.1749974	0.1750026	-4.73 ppm	9.00 ppm	PASS 32.37 %
0.150000 V	0.1500000	0.1499999	6.27 ppm	0.1499977	0.1500023	-0.91 ppm	9.00 ppm	PASS 5.94 %
0.125000 V	0.1250000	0.1250002	7.20 ppm	0.124998	0.125002	1.65 ppm	9.00 ppm	PASS 10.17 %
0.100000 V	0.1000000	0.1000004	8.60 ppm	0.09999824	0.1000018	3.61 ppm	9.00 ppm	PASS 20.51 %
0.075000 V	0.0750000	0.0750006	10.93 ppm	0.07499851	0.07500149	8.61 ppm	9.00 ppm	PASS 43.22 %
0.050000 V	0.0500000	0.0500009	15.60 ppm	0.04999877	0.05000123	17.80 ppm	9.00 ppm	PASS 72.37 %
0.025000 V	0.0250000	0.0250010	29.60 ppm	0.02499904	0.02500096	41.72 ppm	9.00 ppm	FAIL 108.08 %
0.010000 V	0.0100000	0.0100008	71.60 ppm	0.009999194	0.01000081	81.41 ppm	9.00 ppm	FAIL 101.00 %
-0.025000 V	-0.0250000	-0.0249983	29.60 ppm	-0.02500096	-0.02499904	-66.56 ppm	9.00 ppm	FAIL 172.44 %
-0.050000 V	-0.0500000	-0.0499982	15.60 ppm	-0.05000123	-0.04999877	-35.66 ppm	9.00 ppm	FAIL 144.95 %
-0.075000 V	-0.0750000	-0.0749977	10.93 ppm	-0.07500149	-0.07499851	-30.94 ppm	9.00 ppm	FAIL 155.24 %
-0.100000 V	-0.1000000	-0.0999979	8.60 ppm	-0.1000018	-0.09999824	-20.88 ppm	9.00 ppm	FAIL 118.63 %
-0.125000 V	-0.1250000	-0.1249978	7.20 ppm	-0.125002	-0.124998	-17.33 ppm	9.00 ppm	FAIL 106.96 %
-0.150000 V	-0.1500000	-0.14999788	6.27 ppm	-0.1500023	-0.1499977	-14.15 ppm	9.00 ppm	PASS 92.69 %
-0.175000 V	-0.1750000	-0.17499780	5.60 ppm	-0.1750026	-0.1749974	-12.59 ppm	9.00 ppm	PASS 86.22 %
-0.200000 V	-0.2000000	-0.1999979	5.10 ppm	-0.2000028	-0.1999972	-10.55 ppm	9.00 ppm	PASS 74.82 %
-0.225000 V	-0.2250000	-0.22499733	4.71 ppm	-0.2250031	-0.2249969	-11.86 ppm	9.00 ppm	PASS 86.52 %
-0.250000 V	-0.2500000	-0.2499975	4.40 ppm	-0.2500034	-0.2499966	-10.11 ppm	9.00 ppm	PASS 75.43 %
-0.275000 V	-0.2750000	-0.27499694	4.15 ppm	-0.2750036	-0.2749964	-11.11 ppm	9.00 ppm	PASS 84.48 %
-0.300000 V	-0.3000000	-0.2999976	3.93 ppm	-0.3000039	-0.2999961	-7.99 ppm	9.00 ppm	PASS 61.79 %
-0.325000 V	-0.3250000	-0.3249974	3.75 ppm	-0.3250041	-0.3249959	-8.12 ppm	9.00 ppm	PASS 63.66 %
-0.350000 V	-0.3500000	-0.3499969	3.60 ppm	-0.3500044	-0.3499956	-8.85 ppm	9.00 ppm	PASS 70.25 %
-0.375000 V	-0.3750000	-0.3749969	3.47 ppm	-0.3750047	-0.3749953	-8.23 ppm	9.00 ppm	PASS 65.97 %
-0.400000 V	-0.4000000	-0.3999966	3.35 ppm	-0.4000049	-0.3999951	-8.40 ppm	9.00 ppm	PASS 68.06 %
-0.425000 V	-0.4250000	-0.4249964	3.25 ppm	-0.4250052	-0.4249948	-8.42 ppm	9.00 ppm	PASS 68.73 %
-0.450000 V	-0.4500000	-0.4499965	3.16 ppm	-0.4500055	-0.4499945	-7.82 ppm	9.00 ppm	PASS 64.31 %
-0.475000 V	-0.4750000	-0.4749962	3.07 ppm	-0.4750057	-0.4749943	-7.95 ppm	9.00 ppm	PASS 65.86 %
-0.500000 V	-0.5000000	-0.4999956	3.00 ppm	-0.500006	-0.499994	-8.87 ppm	9.00 ppm	PASS 73.88 %
-0.525000 V	-0.5250000	-0.5249958	2.93 ppm	-0.5250063	-0.5249937	-7.97 ppm	9.00 ppm	PASS 66.77 %
-0.550000 V	-0.5500000	-0.5499961	2.87 ppm	-0.5500065	-0.5499935	-7.06 ppm	9.00 ppm	PASS 59.48 %
-0.575000 V	-0.5750000	-0.5749957	2.82 ppm	-0.5750068	-0.5749932	-7.47 ppm	9.00 ppm	PASS 63.21 %
-0.600000 V	-0.6000000	-0.5999953	2.77 ppm	-0.6000071	-0.5999929	-7.84 ppm	9.00 ppm	PASS 66.65 %
-0.625000 V	-0.6250000	-0.6249949	2.72 ppm	-0.6250073	-0.6249927	-8.23 ppm	9.00 ppm	PASS 70.23 %
-0.650000 V	-0.6500000	-0.6499951	2.68 ppm	-0.6500076	-0.6499924	-7.59 ppm	9.00 ppm	PASS 65.00 %
-0.675000 V	-0.6750000	-0.6749944	2.64 ppm	-0.6750079	-0.6749921	-8.31 ppm	9.00 ppm	PASS 71.40 %
-0.700000 V	-0.7000000	-0.6999948	2.60 ppm	-0.7000081	-0.6999919	-7.47 ppm	9.00 ppm	PASS 64.36 %
-0.725000 V	-0.7250000	-0.7249950	2.57 ppm	-0.7250084	-0.7249916	-6.83 ppm	9.00 ppm	PASS 59.07 %
-0.750000 V	-0.7500000	-0.7499948	2.53 ppm	-0.7500086	-0.7499914	-6.98 ppm	9.00 ppm	PASS 60.51 %
-0.775000 V	-0.7750000	-0.7749943	2.50 ppm	-0.7750089	-0.7749911	-7.38 ppm	9.00 ppm	PASS 64.19 %
-0.800000 V	-0.8000000	-0.7999950	2.48 ppm	-0.8000092	-0.7999908	-6.19 ppm	9.00 ppm	PASS 53.94 %
-0.825000 V	-0.8250000	-0.8249940	2.45 ppm	-0.8250094	-0.8249906	-7.32 ppm	9.00 ppm	PASS 63.96 %
-0.850000 V	-0.8500000	-0.8499936	2.42 ppm	-0.8500097	-0.8499903	-7.51 ppm	9.00 ppm	PASS 65.74 %
-0.875000 V	-0.8750000	-0.8749931	2.40 ppm	-0.87501	-0.87499	-7.92 ppm	9.00 ppm	PASS 69.46 %
-0.900000 V	-0.9000000	-0.8999934	2.38 ppm	-0.9000102	-0.8999898	-7.29 ppm	9.00 ppm	PASS 64.02 %
-0.925000 V	-0.9250000	-0.9249932	2.36 ppm	-0.9250105	-0.9249895	-7.34 ppm	9.00 ppm	PASS 64.59 %
-0.950000 V	-0.9500000	-0.9499935	2.34 ppm	-0.9500108	-0.9499892	-6.79 ppm	9.00 ppm	PASS 59.87 %
-0.975000 V	-0.9750000	-0.9749933	2.32 ppm	-0.975011	-0.9749889	-6.82 ppm	9.00 ppm	PASS 60.26 %
-1.000000 V	-1.0000000	-0.9999920	2.30 ppm	-1.000011	-0.9999887	-7.96 ppm	9.00 ppm	PASS 70.43 %
-1.025000 V	-1.0250000	-1.0249931	2.28 ppm	-1.025012	-1.024988	-6.75 ppm	9.00 ppm	PASS 59.85 %
DCV Linearity	10V Range	DUT	Source unc.	Low Limit	Hi limit	Measured	24h spec	Result
10.250000 V	10.250000	10.2500139	1.04 ppm	10.2499	10.2501	1.36 ppm	9.00 ppm	PASS 13.51 %
10.000000 V	10.000000	10.0000239	1.05 ppm	9.999899	10.0001	2.39 ppm	9.00 ppm	PASS 23.78 %
9.750000 V	9.750000	9.7500228	1.06 ppm	9.749902	9.750098	2.34 ppm	9.00 ppm	PASS 23.29 %
9.500000 V	9.500000	9.5000302	1.06 ppm	9.499904	9.500096	3.18 ppm	9.00 ppm	PASS 31.57 %
9.250000 V	9.250000	9.2500180	1.07 ppm	9.249907	9.250093	1.95 ppm	9.00 ppm	PASS 19.33 %
9.000000 V	9.000000	9.0000209	1.08 ppm	8.999909	9.000091	2.33 ppm	9.00 ppm	PASS 23.09 %
8.750000 V	8.750000	8.7500181	1.09 ppm	8.749912	8.750088	2.07 ppm	9.00 ppm	PASS 20.47 %
8.500000 V	8.500000	8.5000233	1.09 ppm	8.499914	8.500086	2.75 ppm	9.00 ppm	PASS 27.23 %
8.250000 V	8.250000	8.2500144	1.10 ppm	8.249917	8.250083	1.75 ppm	9.00 ppm	PASS 17.33 %
8.000000 V	8.000000	8.0000125	1.11 ppm	7.999919	8.000081	1.56 ppm	9.00 ppm	PASS 15.45 %
7.750000 V	7.750000	7.7500154	1.12 ppm	7.749922	7.750078	1.98 ppm	9.00 ppm	PASS 19.58 %
7.500000 V	7.500000	7.5000145	1.13 ppm	7.499924	7.500076	1.94 ppm	9.00 ppm	PASS 19.14 %
7.250000 V	7.250000	7.2500170	1.14 ppm	7.249926	7.250074	2.34 ppm	9.00 ppm	PASS 23.10 %
7.000000 V	7.000000	7.0000140	1.16 ppm	6.999929	7.000071	2.00 ppm	9.00 ppm	PASS 19.73 %
6.750000 V	6.750000	6.7500139	1.17 ppm	6.749931	6.750069	2.06 ppm	9.00 ppm	PASS 20.28 %
6.500000 V	6.500000	6.5000107	1.18 ppm	6.499934	6.500066	1.64 ppm	9.00 ppm	PASS 16.14 %
6.250000 V	6.250000	6.2500116	1.20 ppm	6.249936	6.250064	1.85 ppm	9.00 ppm	PASS 18.13 %
6.000000 V	6.000000	6.0000087	1.22 ppm	5.999939	6.000061	1.45 ppm	9.00 ppm	PASS 14.22 %
5.750000 V	5.750000	5.7500115	1.23 ppm	5.749941	5.750059	2.00 ppm	9.00 ppm	PASS 19.55 %
5.500000 V	5.500000	5.5000067	1.25 ppm	5.499944	5.500056	1.23 ppm	9.00 ppm	PASS 11.97 %
5.250000 V	5.250000	5.2500087	1.28 ppm	5.249946	5.250054	1.66 ppm	9.00 ppm	PASS 16.18 %
5.000000 V	5.000000	5.0000050	1.30 ppm	4.999949	5.000051	0.99 ppm	9.00 ppm	PASS 9.65 %
4.750000 V	4.750000	4.7500037	1.33 ppm	4.749951	4.750049	0.78 ppm	9.00 ppm	PASS 7.54 %
4.500000 V	4.500000	4.5000041	1.36 ppm	4.499953	4.500047	0.90 ppm	9.00 ppm	PASS 8.71 %
4.250000 V	4.250000	4.2500054	1.39 ppm	4.249956	4.250044	1.26 ppm	9.00 ppm	PASS 12.14 %
4.000000 V	4.000000	4.0000025	1.42 ppm	3.999958	4.000042	0.64 ppm	9.00 ppm	PASS 6.12 %
3.750000 V	3.750000	3.7500040	1.47 ppm	3.749961	3.750039	1.06 ppm	9.00 ppm	PASS 10.14 %
3.500000 V	3.500000	3.5000023	1.51 ppm	3.499963	3.500037	0.65 ppm	9.00 ppm	PASS 6.23 %
3.250000 V	3.250000	3.2500004	1.57 ppm	3.249966	3.250034	0.13 ppm	9.00 ppm	PASS 1.25 %
3.000000 V	3.000000	3.0000008	1.63 ppm	2.999968	3.000032	0.26 ppm	9.00 ppm	PASS 2.48 %
2.750000 V	2.750000	2.7499993	1.71 ppm	2.749971	2.750029	-0.26 ppm	9.00 ppm	PASS 2.44 %
2.500000 V	2.500000	2.4999987	1.80 ppm	2.499973	2.500027	-0.52 ppm	9.00 ppm	PASS 4.78 %
2.250000 V	2.250000	2.2500006	1.91 ppm	2.249975	2.250025	0.28 ppm	9.00 ppm	PASS 2.61 %

2.00000 V	2.00000	1.999980	2.05 ppm	1.999978	2.000022	-0.98 ppm	9.00 ppm	PASS 8.87 %
1.75000 V	1.75000	1.750001	2.23 ppm	1.74998	1.75002	0.05 ppm	9.00 ppm	PASS 0.41 %
1.50000 V	1.50000	1.499995	2.47 ppm	1.499983	1.500017	-0.31 ppm	9.00 ppm	PASS 2.73 %
1.25000 V	1.25000	1.250012	2.80 ppm	1.249985	1.250015	0.95 ppm	9.00 ppm	PASS 8.07 %
1.00000 V	1.00000	1.000015	3.30 ppm	0.9999877	1.000012	1.46 ppm	9.00 ppm	PASS 11.87 %
0.75000 V	0.75000	0.750016	4.13 ppm	0.7499902	0.7500098	2.14 ppm	9.00 ppm	PASS 16.28 %
0.50000 V	0.50000	0.500016	5.80 ppm	0.4999926	0.5000074	3.27 ppm	9.00 ppm	PASS 22.12 %
0.25000 V	0.25000	0.250027	10.80 ppm	0.249995	0.250005	10.73 ppm	9.00 ppm	PASS 54.20 %
0.10000 V	0.10000	0.100012	25.80 ppm	0.09999652	0.1000035	12.25 ppm	9.00 ppm	PASS 35.20 %
-0.10000 V	-0.10000	-0.09999690	25.80 ppm	-0.1000035	-0.09999652	-30.98 ppm	9.00 ppm	PASS 89.02 %
-0.25000 V	-0.25000	-0.2499981	10.80 ppm	-0.250005	-0.249995	-7.47 ppm	9.00 ppm	PASS 37.74 %
-0.50000 V	-0.50000	-0.4999975	5.80 ppm	-0.5000074	-0.4999926	-5.03 ppm	9.00 ppm	PASS 33.97 %
-0.75000 V	-0.75000	-0.7499989	4.13 ppm	-0.7500098	-0.7499902	-1.51 ppm	9.00 ppm	PASS 11.46 %
-1.00000 V	-1.00000	-0.9999998	3.30 ppm	-1.000012	-0.9999877	-0.22 ppm	9.00 ppm	PASS 1.82 %
-1.25000 V	-1.25000	-1.250016	2.80 ppm	-1.250015	-1.249985	1.26 ppm	9.00 ppm	PASS 10.64 %
-1.50000 V	-1.50000	-1.500017	2.47 ppm	-1.500017	-1.499983	1.11 ppm	9.00 ppm	PASS 9.65 %
-1.75000 V	-1.75000	-1.750034	2.23 ppm	-1.75002	-1.74998	1.97 ppm	9.00 ppm	PASS 17.50 %
-2.00000 V	-2.00000	-2.000047	2.05 ppm	-2.000022	-1.999978	2.35 ppm	9.00 ppm	PASS 21.31 %
-2.25000 V	-2.25000	-2.250054	1.91 ppm	-2.250025	-2.249975	2.39 ppm	9.00 ppm	PASS 21.88 %
-2.50000 V	-2.50000	-2.500063	1.80 ppm	-2.500027	-2.499973	2.54 ppm	9.00 ppm	PASS 23.48 %
-2.75000 V	-2.75000	-2.750085	1.71 ppm	-2.750029	-2.749971	3.07 ppm	9.00 ppm	PASS 28.69 %
-3.00000 V	-3.00000	-3.000086	1.63 ppm	-3.000032	-2.999968	2.86 ppm	9.00 ppm	PASS 26.94 %
-3.25000 V	-3.25000	-3.250059	1.57 ppm	-3.250034	-3.249966	1.82 ppm	9.00 ppm	PASS 17.26 %
-3.50000 V	-3.50000	-3.500101	1.51 ppm	-3.500037	-3.499963	2.88 ppm	9.00 ppm	PASS 27.38 %
-3.75000 V	-3.75000	-3.750072	1.47 ppm	-3.750039	-3.749961	1.91 ppm	9.00 ppm	PASS 18.29 %
-4.00000 V	-4.00000	-4.000083	1.42 ppm	-4.000042	-3.999958	2.07 ppm	9.00 ppm	PASS 19.89 %
-4.25000 V	-4.25000	-4.250104	1.39 ppm	-4.250044	-4.249956	2.44 ppm	9.00 ppm	PASS 23.48 %
-4.50000 V	-4.50000	-4.500118	1.36 ppm	-4.500047	-4.499953	2.62 ppm	9.00 ppm	PASS 25.31 %
-4.75000 V	-4.75000	-4.750102	1.33 ppm	-4.750049	-4.749951	2.15 ppm	9.00 ppm	PASS 20.83 %
-5.00000 V	-5.00000	-5.000123	1.30 ppm	-5.000051	-4.999949	2.46 ppm	9.00 ppm	PASS 23.84 %
-5.25000 V	-5.25000	-5.250096	1.28 ppm	-5.250054	-5.249946	1.84 ppm	9.00 ppm	PASS 17.88 %
-5.50000 V	-5.50000	-5.500127	1.25 ppm	-5.500056	-5.499944	2.31 ppm	9.00 ppm	PASS 22.53 %
-5.75000 V	-5.75000	-5.750110	1.23 ppm	-5.750059	-5.749941	1.90 ppm	9.00 ppm	PASS 18.62 %
-6.00000 V	-6.00000	-6.000126	1.22 ppm	-6.000061	-5.999939	2.09 ppm	9.00 ppm	PASS 20.47 %
-6.25000 V	-6.25000	-6.250109	1.20 ppm	-6.250064	-6.249936	1.75 ppm	9.00 ppm	PASS 17.11 %
-6.50000 V	-6.50000	-6.500122	1.18 ppm	-6.500066	-6.499934	1.88 ppm	9.00 ppm	PASS 18.42 %
-6.75000 V	-6.75000	-6.750094	1.17 ppm	-6.750069	-6.749931	1.39 ppm	9.00 ppm	PASS 13.62 %
-7.00000 V	-7.00000	-7.000140	1.16 ppm	-7.000071	-6.999929	2.00 ppm	9.00 ppm	PASS 19.73 %
-7.25000 V	-7.25000	-7.250136	1.14 ppm	-7.250074	-7.249926	1.87 ppm	9.00 ppm	PASS 18.47 %
-7.50000 V	-7.50000	-7.500142	1.13 ppm	-7.500076	-7.499924	1.90 ppm	9.00 ppm	PASS 18.74 %
-7.75000 V	-7.75000	-7.750092	1.12 ppm	-7.750078	-7.749922	1.19 ppm	9.00 ppm	PASS 11.79 %
-8.00000 V	-8.00000	-8.000149	1.11 ppm	-8.000081	-7.999919	1.86 ppm	9.00 ppm	PASS 18.42 %
-8.25000 V	-8.25000	-8.250137	1.10 ppm	-8.250083	-8.249917	1.66 ppm	9.00 ppm	PASS 16.41 %
-8.50000 V	-8.50000	-8.500104	1.09 ppm	-8.500086	-8.499914	1.23 ppm	9.00 ppm	PASS 12.15 %
-8.75000 V	-8.75000	-8.750147	1.09 ppm	-8.750088	-8.749912	1.68 ppm	9.00 ppm	PASS 16.70 %
-9.00000 V	-9.00000	-9.000092	1.08 ppm	-9.000091	-8.999909	1.02 ppm	9.00 ppm	PASS 10.13 %
-9.25000 V	-9.25000	-9.250124	1.07 ppm	-9.250093	-9.249907	1.34 ppm	9.00 ppm	PASS 13.29 %
-9.50000 V	-9.50000	-9.500168	1.06 ppm	-9.500096	-9.499904	1.77 ppm	9.00 ppm	PASS 17.60 %
-9.75000 V	-9.75000	-9.750178	1.06 ppm	-9.750098	-9.749902	1.83 ppm	9.00 ppm	PASS 18.16 %
-10.00000 V	-10.00000	-10.000169	1.05 ppm	-10.0001	-9.999899	1.69 ppm	9.00 ppm	PASS 16.82 %
-10.25000 V	-10.25000	-10.2500206	1.04 ppm	-10.2501	-10.2499	2.01 ppm	9.00 ppm	PASS 20.02 %

Test completed

Test date

01 September 2018 01:18

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

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