

Manufacturer	Wavetek-Datron	Calibration date	August 06 2018
Model Number	4920M	Ambient Temperature	28.60 °C
Serial	STDW	Relative Humidity	35.09 %
ID Number	HULK	Pressure	1002.44
Notes	Post-caltest	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
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

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

MFC last calibrated	6.0 days ago	MFC since DCV ZERO	1.0 days ago
MFC since WBFLAT	11175.0 days ago	MFC since WBGAIN	135.0 days ago
MFC Confidence level	24h 95% REL	MFC Calibrate date	2018-08-01 00:00:00
MFC Calibrate date Zero	2018-08-06 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	6.95748640608
CAL CONST 13V reference voltage	13.8553097902	CAL CONST 22V range positive zero	398.18054
CAL CONST 22V range negative zero	398.18004	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	9999.77557112	CAL CONST 10KOHM standard resistance	9998.74079464
CAL CONST, Zero calibration temperature	27.0	CAL CONST, All calibration temp	27.0
Meter Info	Wavetek-Datron,4920M, 29336,400935-01.01	Line frequency	60 Hz
Next calibration date	M:08 D:06 Y:19	Test date	August 06 2018 19:33
DUT Internal TEMP?	NONE	Calibration interval	365.0
PROG?	"ACV 0.3,RESL7, FILT10HZ, OFF,INT"	Calibration temp (hardcode)	+24.0 °C

Test procedure : \$Id: w4920m.py | Rev 808 | 2018/08/05 04:11:05 tin_fpga \$

Source procedure : \$Id: f5720a.py | Rev 786 | 2018/07/31 23:13:20 tin_fpga \$

VAC Ranges performance test.
 Checks calibration on 0.3V - 1000V ranges
 The following test for the offset voltage specification using MFC source in local sense mode as reference.
 Using uncorrected 24-hour MFC output.

Test Description	Measured Value	F5700A 24h			Ref/measured	W4920 Spec	Test Status
Full range ACV Test	0.1V-1000V	Source Uncertainty	Lower Limit	Upper Limit	Deviation	1y spec	Result
0.1 VAC @ 14.99936 Hz	0.0999962	140.45 ppm	0.099986	0.100014	-38.000 ppm	75.0 ppm	PASS 17.64 %
0.1 VAC @ 19.9992 Hz	0.0999958	140.45 ppm	0.099986	0.100014	-42.000 ppm	75.0 ppm	PASS 19.49 %
0.1 VAC @ 49.9978 Hz	0.0999957	140.45 ppm	0.099986	0.100014	-43.000 ppm	30.0 ppm	PASS 25.23 %
0.1 VAC @ 99.9955 Hz	0.0999957	140.45 ppm	0.099986	0.100014	-43.000 ppm	30.0 ppm	PASS 25.23 %
0.1 VAC @ 399.982 Hz	0.0999965	140.45 ppm	0.099986	0.100014	-35.000 ppm	30.0 ppm	PASS 20.53 %
0.1 VAC @ 999.955 Hz	0.0999966	140.45 ppm	0.099986	0.100014	-34.000 ppm	30.0 ppm	PASS 19.95 %
0.1 VAC @ 1.99991 kHz	0.0999964	140.45 ppm	0.099986	0.100014	-36.000 ppm	30.0 ppm	PASS 21.12 %
0.1 VAC @ 2.99987 kHz	0.0999967	140.45 ppm	0.099986	0.100014	-33.000 ppm	30.0 ppm	PASS 19.36 %
0.1 VAC @ 3.99982 kHz	0.0999965	140.45 ppm	0.099986	0.100014	-35.000 ppm	30.0 ppm	PASS 20.53 %
0.1 VAC @ 4.99978 kHz	0.0999964	140.45 ppm	0.099986	0.100014	-36.000 ppm	30.0 ppm	PASS 21.12 %
0.1 VAC @ 6.24972 kHz	0.0999964	140.45 ppm	0.099986	0.100014	-36.000 ppm	30.0 ppm	PASS 21.12 %
0.1 VAC @ 7.99964 kHz	0.0999964	140.45 ppm	0.099986	0.100014	-36.000 ppm	30.0 ppm	PASS 21.12 %
0.1 VAC @ 9.99955 kHz	0.0999960	140.45 ppm	0.099986	0.100014	-40.000 ppm	30.0 ppm	PASS 23.47 %
0.1 VAC @ 14.99933 kHz	0.0999953	140.45 ppm	0.099986	0.100014	-47.000 ppm	30.0 ppm	PASS 27.57 %
0.1 VAC @ 19.9991 kHz	0.0999951	140.45 ppm	0.099986	0.100014	-49.000 ppm	30.0 ppm	PASS 28.75 %
0.1 VAC @ 29.9987 kHz	0.0999944	345.45 ppm	0.099965	0.100035	-56.000 ppm	70.0 ppm	PASS 13.48 %
0.1 VAC @ 49.9978 kHz	0.0999951	345.45 ppm	0.099965	0.100035	-49.000 ppm	70.0 ppm	PASS 11.79 %
0.1 VAC @ 99.9955 kHz	0.1000022	886.36 ppm	0.099911	0.100089	22.000 ppm	150.0 ppm	PASS 2.12 %
0.1 VAC @ 199.991 kHz	0.1000096	1100.00 ppm	0.099890	0.100110	96.000 ppm	300.0 ppm	PASS 6.86 %
0.1 VAC @ 299.987 kHz	0.1000324	1100.00 ppm	0.099890	0.100110	0.0324 %	300.0 ppm	PASS 23.14 %
0.1 VAC @ 499.978 kHz	0.1000783	1700.00 ppm	0.099830	0.100170	0.0783 %	300.0 ppm	PASS 39.15 %
0.1 VAC @ 699.969 kHz	0.1001693	3500.00 ppm	0.099650	0.100350	0.1693 %	1000.0 ppm	PASS 37.62 %
0.1 VAC @ 999.956 kHz	0.1001818	3500.00 ppm	0.099650	0.100350	0.1818 %	1000.0 ppm	PASS 40.40 %
0.2 VAC @ 14.99933 Hz	0.1999827	140.45 ppm	0.199972	0.200028	-86.500 ppm	75.0 ppm	PASS 40.15 %
0.2 VAC @ 19.9991 Hz	0.1999824	140.45 ppm	0.199972	0.200028	-88.000 ppm	75.0 ppm	PASS 40.84 %
0.2 VAC @ 49.9978 Hz	0.1999810	140.45 ppm	0.199972	0.200028	-95.000 ppm	30.0 ppm	PASS 55.73 %
0.2 VAC @ 99.9955 Hz	0.1999806	140.45 ppm	0.199972	0.200028	-97.000 ppm	30.0 ppm	PASS 56.91 %
0.2 VAC @ 399.982 Hz	0.1999810	140.45 ppm	0.199972	0.200028	-95.000 ppm	30.0 ppm	PASS 55.73 %
0.2 VAC @ 999.956 Hz	0.1999811	140.45 ppm	0.199972	0.200028	-94.500 ppm	30.0 ppm	PASS 55.44 %
0.2 VAC @ 1.99991 kHz	0.1999817	140.45 ppm	0.199972	0.200028	-91.500 ppm	30.0 ppm	PASS 53.68 %
0.2 VAC @ 2.99987 kHz	0.1999818	140.45 ppm	0.199972	0.200028	-91.000 ppm	30.0 ppm	PASS 53.39 %
0.2 VAC @ 3.99982 kHz	0.1999812	140.45 ppm	0.199972	0.200028	-94.000 ppm	30.0 ppm	PASS 55.15 %
0.2 VAC @ 4.99978 kHz	0.1999810	140.45 ppm	0.199972	0.200028	-95.000 ppm	30.0 ppm	PASS 55.73 %
0.2 VAC @ 6.24972 kHz	0.1999806	140.45 ppm	0.199972	0.200028	-97.000 ppm	30.0 ppm	PASS 56.91 %
0.2 VAC @ 7.99964 kHz	0.1999806	140.45 ppm	0.199972	0.200028	-97.000 ppm	30.0 ppm	PASS 56.91 %
0.2 VAC @ 9.99955 kHz	0.1999799	140.45 ppm	0.199972	0.200028	-0.0101 %	30.0 ppm	PASS 58.96 %
0.2 VAC @ 14.99933 kHz	0.1999788	140.45 ppm	0.199972	0.200028	-0.0106 %	30.0 ppm	PASS 62.19 %
0.2 VAC @ 19.9991 kHz	0.1999787	140.45 ppm	0.199972	0.200028	-0.0107 %	30.0 ppm	PASS 62.48 %
0.2 VAC @ 29.9987 kHz	0.1999767	345.45 ppm	0.199931	0.200069	-0.0116 %	70.0 ppm	PASS 28.04 %
0.2 VAC @ 49.9978 kHz	0.1999762	345.45 ppm	0.199931	0.200069	-0.0119 %	70.0 ppm	PASS 28.64 %
0.2 VAC @ 99.9955 kHz	0.1999814	886.36 ppm	0.199823	0.200177	-93.000 ppm	150.0 ppm	PASS 8.97 %
0.2 VAC @ 199.991 kHz	0.1999859	1100.00 ppm	0.199780	0.200220	-70.500 ppm	300.0 ppm	PASS 5.04 %
0.2 VAC @ 299.987 kHz	0.2000142	1100.00 ppm	0.199780	0.200220	71.000 ppm	300.0 ppm	PASS 5.07 %
0.2 VAC @ 499.978 kHz	0.2000524	1700.00 ppm	0.199660	0.200340	0.0262 %	300.0 ppm	PASS 13.10 %
0.2 VAC @ 699.969 kHz	0.2001634	3500.00 ppm	0.199300	0.200700	0.0817 %	1000.0 ppm	PASS 18.16 %
0.2 VAC @ 999.956 kHz	0.2000668	3500.00 ppm	0.199300	0.200700	0.0334 %	1000.0 ppm	PASS 7.42 %
0.3 VAC @ 14.99937 Hz	0.3000051	73.18 ppm	0.299978	0.300022	17.000 ppm	75.0 ppm	PASS 11.47 %
0.3 VAC @ 19.9991 Hz	0.3000028	73.18 ppm	0.299978	0.300022	9.333 ppm	75.0 ppm	PASS 6.30 %
0.3 VAC @ 49.9978 Hz	0.3000016	73.18 ppm	0.299978	0.300022	5.333 ppm	30.0 ppm	PASS 5.17 %
0.3 VAC @ 99.9955 Hz	0.3000035	73.18 ppm	0.299978	0.300022	11.667 ppm	30.0 ppm	PASS 11.31 %
0.3 VAC @ 399.982 Hz	0.3000016	73.18 ppm	0.299978	0.300022	5.333 ppm	30.0 ppm	PASS 5.17 %
0.3 VAC @ 999.956 Hz	0.3000014	73.18 ppm	0.299978	0.300022	4.667 ppm	30.0 ppm	PASS 4.52 %
0.3 VAC @ 1.99991 kHz	0.3000021	73.18 ppm	0.299978	0.300022	7.000 ppm	30.0 ppm	PASS 6.78 %
0.3 VAC @ 2.99987 kHz	0.3000024	73.18 ppm	0.299978	0.300022	8.000 ppm	30.0 ppm	PASS 7.75 %
0.3 VAC @ 3.99982 kHz	0.3000028	73.18 ppm	0.299978	0.300022	9.333 ppm	30.0 ppm	PASS 9.05 %
0.3 VAC @ 4.99978 kHz	0.3000023	73.18 ppm	0.299978	0.300022	7.667 ppm	30.0 ppm	PASS 7.43 %
0.3 VAC @ 6.24972 kHz	0.3000028	73.18 ppm	0.299978	0.300022	9.333 ppm	30.0 ppm	PASS 9.05 %
0.3 VAC @ 7.99964 kHz	0.3000028	73.18 ppm	0.299978	0.300022	9.333 ppm	30.0 ppm	PASS 9.05 %
0.3 VAC @ 9.99955 kHz	0.3000023	73.18 ppm	0.299978	0.300022	7.667 ppm	30.0 ppm	PASS 7.43 %
0.3 VAC @ 14.99933 kHz	0.3000022	73.18 ppm	0.299978	0.300022	7.333 ppm	30.0 ppm	PASS 7.11 %
0.3 VAC @ 19.9991 kHz	0.3000025	73.18 ppm	0.299978	0.300022	8.333 ppm	30.0 ppm	PASS 8.08 %
0.3 VAC @ 29.9987 kHz	0.3000032	129.09 ppm	0.299961	0.300039	10.667 ppm	70.0 ppm	PASS 5.36 %
0.3 VAC @ 49.9978 kHz	0.3000095	129.09 ppm	0.299961	0.300039	31.667 ppm	70.0 ppm	PASS 15.91 %
0.3 VAC @ 99.9955 kHz	0.3000338	266.36 ppm	0.299920	0.300080	0.0113 %	150.0 ppm	PASS 27.06 %
0.3 VAC @ 199.991 kHz	0.3000290	468.18 ppm	0.299860	0.300140	96.667 ppm	300.0 ppm	PASS 12.58 %

0.3 VAC @ 299.987 kHz	0.3000950	468.18 ppm	0.299860	0.300140	0.0317 %	300.0 ppm	PASS 41.22 %
0.3 VAC @ 499.978 kHz	0.3001992	1200.00 ppm	0.299640	0.300360	0.0664 %	300.0 ppm	PASS 44.27 %
0.3 VAC @ 699.969 kHz	0.3004068	2500.00 ppm	0.299250	0.300750	0.1356 %	1000.0 ppm	PASS 38.74 %
0.3 VAC @ 999.955 kHz	0.3002993	2500.00 ppm	0.299250	0.300750	0.0998 %	1000.0 ppm	PASS 28.50 %
1.0 VAC @ 14.99932 Hz	1.0000018	73.18 ppm	0.999927	1.000073	1.800 ppm	75.0 ppm	PASS 1.21 %
1.0 VAC @ 19.9991 Hz	0.9999966	73.18 ppm	0.999927	1.000073	-3.400 ppm	75.0 ppm	PASS 2.29 %
1.0 VAC @ 49.9977 Hz	0.9999879	73.18 ppm	0.999927	1.000073	-12.100 ppm	30.0 ppm	PASS 11.73 %
1.0 VAC @ 99.9955 Hz	0.9999871	73.18 ppm	0.999927	1.000073	-12.900 ppm	30.0 ppm	PASS 12.50 %
1.0 VAC @ 399.982 Hz	0.9999865	73.18 ppm	0.999927	1.000073	-13.500 ppm	30.0 ppm	PASS 13.08 %
1.0 VAC @ 999.955 Hz	0.9999860	73.18 ppm	0.999927	1.000073	-14.000 ppm	30.0 ppm	PASS 13.57 %
1.0 VAC @ 1.99991 kHz	0.9999909	73.18 ppm	0.999927	1.000073	-9.100 ppm	30.0 ppm	PASS 8.82 %
1.0 VAC @ 2.99987 kHz	0.9999903	73.18 ppm	0.999927	1.000073	-9.700 ppm	30.0 ppm	PASS 9.40 %
1.0 VAC @ 3.99982 kHz	0.9999909	73.18 ppm	0.999927	1.000073	-9.100 ppm	30.0 ppm	PASS 8.82 %
1.0 VAC @ 4.99978 kHz	0.9999890	73.18 ppm	0.999927	1.000073	-11.000 ppm	30.0 ppm	PASS 10.66 %
1.0 VAC @ 6.24972 kHz	0.9999897	73.18 ppm	0.999927	1.000073	-10.300 ppm	30.0 ppm	PASS 9.98 %
1.0 VAC @ 7.99964 kHz	0.9999883	73.18 ppm	0.999927	1.000073	-11.700 ppm	30.0 ppm	PASS 11.34 %
1.0 VAC @ 9.99955 kHz	0.9999867	73.18 ppm	0.999927	1.000073	-13.300 ppm	30.0 ppm	PASS 12.89 %
1.0 VAC @ 14.99933 kHz	0.9999862	73.18 ppm	0.999927	1.000073	-13.800 ppm	30.0 ppm	PASS 13.37 %
1.0 VAC @ 19.9991 kHz	0.9999884	73.18 ppm	0.999927	1.000073	-11.600 ppm	30.0 ppm	PASS 11.24 %
1.0 VAC @ 29.9987 kHz	0.9999845	129.09 ppm	0.999871	1.000129	-15.500 ppm	70.0 ppm	PASS 7.79 %
1.0 VAC @ 49.9978 kHz	0.9999843	129.09 ppm	0.999871	1.000129	-15.700 ppm	70.0 ppm	PASS 7.89 %
1.0 VAC @ 99.9955 kHz	0.9999939	266.36 ppm	0.999734	1.000266	-6.100 ppm	150.0 ppm	PASS 1.47 %
1.0 VAC @ 199.991 kHz	0.9999724	468.18 ppm	0.999532	1.000468	-27.600 ppm	300.0 ppm	PASS 3.59 %
1.0 VAC @ 299.987 kHz	0.9999900	468.18 ppm	0.999532	1.000468	-10.000 ppm	300.0 ppm	PASS 1.30 %
1.0 VAC @ 499.978 kHz	1.0000922	1200.00 ppm	0.998800	1.001200	92.200 ppm	300.0 ppm	PASS 6.15 %
1.0 VAC @ 699.969 kHz	1.0003705	2500.00 ppm	0.997500	1.002500	0.0371 %	1000.0 ppm	PASS 10.59 %
1.0 VAC @ 999.955 kHz	1.0001073	2500.00 ppm	0.997500	1.002500	0.0107 %	1000.0 ppm	PASS 3.07 %
2.0 VAC @ 14.99938 Hz	1.9999330	73.18 ppm	1.999854	2.000146	-33.500 ppm	75.0 ppm	PASS 22.61 %
2.0 VAC @ 19.9991 Hz	1.9999270	73.18 ppm	1.999854	2.000146	-36.500 ppm	75.0 ppm	PASS 24.63 %
2.0 VAC @ 49.9977 Hz	1.9999150	73.18 ppm	1.999854	2.000146	-42.500 ppm	30.0 ppm	PASS 41.19 %
2.0 VAC @ 99.9955 Hz	1.9999200	73.18 ppm	1.999854	2.000146	-40.000 ppm	30.0 ppm	PASS 38.77 %
2.0 VAC @ 399.982 Hz	1.9999280	73.18 ppm	1.999854	2.000146	-36.000 ppm	30.0 ppm	PASS 34.89 %
2.0 VAC @ 999.955 Hz	1.9999290	73.18 ppm	1.999854	2.000146	-35.500 ppm	30.0 ppm	PASS 34.41 %
2.0 VAC @ 1.99991 kHz	1.9999400	73.18 ppm	1.999854	2.000146	-30.000 ppm	30.0 ppm	PASS 29.08 %
2.0 VAC @ 2.99987 kHz	1.9999490	73.18 ppm	1.999854	2.000146	-25.500 ppm	30.0 ppm	PASS 24.71 %
2.0 VAC @ 3.99982 kHz	1.9999510	73.18 ppm	1.999854	2.000146	-24.500 ppm	30.0 ppm	PASS 23.74 %
2.0 VAC @ 4.99978 kHz	1.9999480	73.18 ppm	1.999854	2.000146	-26.000 ppm	30.0 ppm	PASS 25.20 %
2.0 VAC @ 6.24972 kHz	1.9999500	73.18 ppm	1.999854	2.000146	-25.000 ppm	30.0 ppm	PASS 24.23 %
2.0 VAC @ 7.99964 kHz	1.9999510	73.18 ppm	1.999854	2.000146	-24.500 ppm	30.0 ppm	PASS 23.74 %
2.0 VAC @ 9.99955 kHz	1.9999490	73.18 ppm	1.999854	2.000146	-25.500 ppm	30.0 ppm	PASS 24.71 %
2.0 VAC @ 14.99933 kHz	1.9999480	73.18 ppm	1.999854	2.000146	-26.000 ppm	30.0 ppm	PASS 25.20 %
2.0 VAC @ 19.9991 kHz	1.9999450	73.18 ppm	1.999854	2.000146	-27.500 ppm	30.0 ppm	PASS 26.65 %
2.0 VAC @ 29.9987 kHz	1.9999440	129.09 ppm	1.999742	2.000258	-28.000 ppm	70.0 ppm	PASS 14.06 %
2.0 VAC @ 49.9978 kHz	1.9999380	129.09 ppm	1.999742	2.000258	-31.000 ppm	70.0 ppm	PASS 15.57 %
2.0 VAC @ 99.9955 kHz	1.9985150	266.36 ppm	1.999467	2.000533	-0.0742 %	150.0 ppm	FAIL 178.33 %
2.0 VAC @ 199.991 kHz	1.9999830	468.18 ppm	1.999064	2.000936	-8.500 ppm	300.0 ppm	PASS 1.11 %
2.0 VAC @ 299.987 kHz	2.0000620	468.18 ppm	1.999064	2.000936	31.000 ppm	300.0 ppm	PASS 4.04 %
2.0 VAC @ 499.978 kHz	1.9997970	1200.00 ppm	1.997600	2.002400	-0.0101 %	300.0 ppm	PASS 6.77 %
2.0 VAC @ 699.969 kHz	1.9998790	2500.00 ppm	1.995000	2.005000	-60.500 ppm	1000.0 ppm	PASS 1.73 %
2.0 VAC @ 999.955 kHz	1.9970500	2500.00 ppm	1.995000	2.005000	-0.1475 %	1000.0 ppm	PASS 42.14 %
3.0 VAC @ 14.9993 Hz	2.9999360	73.18 ppm	2.999780	3.000220	-21.333 ppm	75.0 ppm	PASS 14.40 %
3.0 VAC @ 19.9991 Hz	2.9999280	73.18 ppm	2.999780	3.000220	-24.000 ppm	75.0 ppm	PASS 16.20 %
3.0 VAC @ 49.9977 Hz	2.9998990	73.18 ppm	2.999780	3.000220	-33.667 ppm	30.0 ppm	PASS 32.63 %
3.0 VAC @ 99.9955 Hz	2.9998920	73.18 ppm	2.999780	3.000220	-36.000 ppm	30.0 ppm	PASS 34.89 %
3.0 VAC @ 399.982 Hz	2.9999020	73.18 ppm	2.999780	3.000220	-32.667 ppm	30.0 ppm	PASS 31.66 %
3.0 VAC @ 999.955 Hz	2.9998960	73.18 ppm	2.999780	3.000220	-34.667 ppm	30.0 ppm	PASS 33.60 %
3.0 VAC @ 1.99991 kHz	2.9999150	73.18 ppm	2.999780	3.000220	-28.333 ppm	30.0 ppm	PASS 27.46 %
3.0 VAC @ 2.99987 kHz	2.9999130	73.18 ppm	2.999780	3.000220	-29.000 ppm	30.0 ppm	PASS 28.11 %
3.0 VAC @ 3.99982 kHz	2.9999210	73.18 ppm	2.999780	3.000220	-26.333 ppm	30.0 ppm	PASS 25.52 %
3.0 VAC @ 4.99978 kHz	2.9999120	73.18 ppm	2.999780	3.000220	-29.333 ppm	30.0 ppm	PASS 28.43 %
3.0 VAC @ 6.24972 kHz	2.9999120	73.18 ppm	2.999780	3.000220	-29.333 ppm	30.0 ppm	PASS 28.43 %
3.0 VAC @ 7.99964 kHz	2.9998990	73.18 ppm	2.999780	3.000220	-33.667 ppm	30.0 ppm	PASS 32.63 %
3.0 VAC @ 9.99956 kHz	2.9999060	73.18 ppm	2.999780	3.000220	-31.333 ppm	30.0 ppm	PASS 30.37 %
3.0 VAC @ 14.99933 kHz	2.9999010	73.18 ppm	2.999780	3.000220	-33.000 ppm	30.0 ppm	PASS 31.98 %
3.0 VAC @ 19.9991 kHz	2.9998970	73.18 ppm	2.999780	3.000220	-34.333 ppm	30.0 ppm	PASS 33.28 %
3.0 VAC @ 29.9987 kHz	2.9999120	129.09 ppm	2.999613	3.000387	-29.333 ppm	70.0 ppm	PASS 14.73 %
3.0 VAC @ 49.9978 kHz	2.9999300	129.09 ppm	2.999613	3.000387	-23.333 ppm	70.0 ppm	PASS 11.72 %
3.0 VAC @ 99.9955 kHz	3.0000840	248.18 ppm	2.999255	3.000745	28.000 ppm	150.0 ppm	PASS 7.03 %
3.0 VAC @ 199.991 kHz	2.9998020	577.27 ppm	2.998268	3.001732	-66.000 ppm	300.0 ppm	PASS 7.52 %
3.0 VAC @ 299.987 kHz	2.9997810	577.27 ppm	2.998268	3.001732	-73.000 ppm	300.0 ppm	PASS 8.32 %
3.0 VAC @ 499.978 kHz	2.9990750	1400.00 ppm	2.995800	3.004200	-0.0308 %	300.0 ppm	PASS 18.14 %
3.0 VAC @ 699.969 kHz	2.9988700	3000.00 ppm	2.991000	3.009000	-0.0377 %	1000.0 ppm	PASS 9.42 %
3.0 VAC @ 999.956 kHz	2.9950430	3000.00 ppm	2.991000	3.009000	-0.1652 %	1000.0 ppm	PASS 41.31 %

10.0 VAC @ 14.99932 Hz	9.9996930	73.18 ppm	9.999268	10.000732	-30.700 ppm	75.0 ppm	PASS 20.72 %
10.0 VAC @ 19.9991 Hz	9.9996150	73.18 ppm	9.999268	10.000732	-38.500 ppm	75.0 ppm	PASS 25.98 %
10.0 VAC @ 49.9978 Hz	9.9995580	73.18 ppm	9.999268	10.000732	-44.200 ppm	30.0 ppm	PASS 42.84 %
10.0 VAC @ 99.9955 Hz	9.9995750	73.18 ppm	9.999268	10.000732	-42.500 ppm	30.0 ppm	PASS 41.19 %
10.0 VAC @ 399.982 Hz	9.9995730	73.18 ppm	9.999268	10.000732	-42.700 ppm	30.0 ppm	PASS 41.38 %
10.0 VAC @ 999.955 Hz	9.9996000	73.18 ppm	9.999268	10.000732	-40.000 ppm	30.0 ppm	PASS 38.77 %
10.0 VAC @ 1.99991 kHz	9.9996480	73.18 ppm	9.999268	10.000732	-35.200 ppm	30.0 ppm	PASS 34.12 %
10.0 VAC @ 2.99987 kHz	9.9996600	73.18 ppm	9.999268	10.000732	-34.000 ppm	30.0 ppm	PASS 32.95 %
10.0 VAC @ 3.99982 kHz	9.9996740	73.18 ppm	9.999268	10.000732	-32.600 ppm	30.0 ppm	PASS 31.60 %
10.0 VAC @ 4.99978 kHz	9.9996620	73.18 ppm	9.999268	10.000732	-33.800 ppm	30.0 ppm	PASS 32.76 %
10.0 VAC @ 6.24972 kHz	9.9996560	73.18 ppm	9.999268	10.000732	-34.400 ppm	30.0 ppm	PASS 33.34 %
10.0 VAC @ 7.99964 kHz	9.9996590	73.18 ppm	9.999268	10.000732	-34.100 ppm	30.0 ppm	PASS 33.05 %
10.0 VAC @ 9.99956 kHz	9.9996490	73.18 ppm	9.999268	10.000732	-35.100 ppm	30.0 ppm	PASS 34.02 %
10.0 VAC @ 14.99933 kHz	9.9996390	73.18 ppm	9.999268	10.000732	-36.100 ppm	30.0 ppm	PASS 34.99 %
10.0 VAC @ 19.9991 kHz	9.9996300	73.18 ppm	9.999268	10.000732	-37.000 ppm	30.0 ppm	PASS 35.86 %
10.0 VAC @ 29.9987 kHz	9.9995950	129.09 ppm	9.998709	10.001291	-40.500 ppm	70.0 ppm	PASS 20.34 %
10.0 VAC @ 49.9978 kHz	9.9995790	129.09 ppm	9.998709	10.001291	-42.100 ppm	70.0 ppm	PASS 21.15 %
10.0 VAC @ 99.9955 kHz	9.9995020	248.18 ppm	9.997518	10.002482	-49.800 ppm	150.0 ppm	PASS 12.51 %
10.0 VAC @ 199.991 kHz	9.9994060	577.27 ppm	9.994227	10.005773	-59.400 ppm	300.0 ppm	PASS 6.77 %
10.0 VAC @ 299.987 kHz	9.9994090	577.27 ppm	9.994227	10.005773	-59.100 ppm	300.0 ppm	PASS 6.74 %
10.0 VAC @ 499.978 kHz	9.9994900	1400.00 ppm	9.986000	10.014000	-51.000 ppm	300.0 ppm	PASS 3.00 %
10.0 VAC @ 699.969 kHz	10.0031430	3000.00 ppm	9.970000	10.030000	0.0314 %	1000.0 ppm	PASS 7.86 %
10.0 VAC @ 999.956 kHz	10.0008490	3000.00 ppm	9.970000	10.030000	84.900 ppm	1000.0 ppm	PASS 2.12 %
20.0 VAC @ 14.99931 Hz	19.9992700	73.18 ppm	19.998536	20.001464	-36.500 ppm	75.0 ppm	PASS 24.63 %
20.0 VAC @ 19.9991 Hz	19.9991800	73.18 ppm	19.998536	20.001464	-41.000 ppm	75.0 ppm	PASS 27.67 %
20.0 VAC @ 49.9978 Hz	19.9991100	73.18 ppm	19.998536	20.001464	-44.500 ppm	30.0 ppm	PASS 43.13 %
20.0 VAC @ 99.9955 Hz	19.9991400	73.18 ppm	19.998536	20.001464	-43.000 ppm	30.0 ppm	PASS 41.67 %
20.0 VAC @ 399.982 Hz	19.9991700	73.18 ppm	19.998536	20.001464	-41.500 ppm	30.0 ppm	PASS 40.22 %
20.0 VAC @ 999.956 Hz	19.9992900	73.18 ppm	19.998536	20.001464	-35.500 ppm	30.0 ppm	PASS 34.41 %
20.0 VAC @ 1.99991 kHz	19.9993500	73.18 ppm	19.998536	20.001464	-32.500 ppm	30.0 ppm	PASS 31.50 %
20.0 VAC @ 2.99987 kHz	19.9993600	73.18 ppm	19.998536	20.001464	-32.000 ppm	30.0 ppm	PASS 31.01 %
20.0 VAC @ 3.99982 kHz	19.9994300	73.18 ppm	19.998536	20.001464	-28.500 ppm	30.0 ppm	PASS 27.62 %
20.0 VAC @ 4.99978 kHz	19.9994200	73.18 ppm	19.998536	20.001464	-29.000 ppm	30.0 ppm	PASS 28.11 %
20.0 VAC @ 6.24972 kHz	19.9994200	73.18 ppm	19.998536	20.001464	-29.000 ppm	30.0 ppm	PASS 28.11 %
20.0 VAC @ 7.99964 kHz	19.9994100	73.18 ppm	19.998536	20.001464	-29.500 ppm	30.0 ppm	PASS 28.59 %
20.0 VAC @ 9.99955 kHz	19.9993900	73.18 ppm	19.998536	20.001464	-30.500 ppm	30.0 ppm	PASS 29.56 %
20.0 VAC @ 14.99933 kHz	19.9993300	73.18 ppm	19.998536	20.001464	-33.500 ppm	30.0 ppm	PASS 32.47 %
20.0 VAC @ 19.9991 kHz	19.9992900	73.18 ppm	19.998536	20.001464	-35.500 ppm	30.0 ppm	PASS 34.41 %
20.0 VAC @ 29.9987 kHz	19.9992400	129.09 ppm	19.997418	20.002582	-38.000 ppm	70.0 ppm	PASS 19.09 %
20.0 VAC @ 49.9978 kHz	19.9989700	129.09 ppm	19.997418	20.002582	-51.500 ppm	70.0 ppm	PASS 25.87 %
20.0 VAC @ 99.9955 kHz	19.9980000	248.18 ppm	19.995036	20.004964	-100.000 ppm	150.0 ppm	PASS 25.11 %
20.0 VAC @ 199.991 kHz	19.9956300	577.27 ppm	19.988455	20.011545	-0.0219 %	300.0 ppm	PASS 24.91 %
20.0 VAC @ 299.987 kHz	19.9862900	577.27 ppm	19.988455	20.011545	-0.0686 %	300.0 ppm	PASS 78.14 %
20.0 VAC @ 499.978 kHz	19.9346400	1400.00 ppm	19.972000	20.028000	-0.3268 %	300.0 ppm	FAIL 192.24 %
20.0 VAC @ 699.969 kHz	19.9178300	3000.00 ppm	19.940000	20.060000	-0.4109 %	1000.0 ppm	FAIL 102.71 %
20.0 VAC @ 999.956 kHz	19.9640800	3000.00 ppm	19.940000	20.060000	-0.1796 %	1000.0 ppm	PASS 44.90 %
30.0 VAC @ 14.99943 Hz	29.9987500	79.55 ppm	29.997613	30.002387	-41.667 ppm	75.0 ppm	PASS 26.96 %
30.0 VAC @ 19.9991 Hz	29.9986300	79.55 ppm	29.997613	30.002387	-45.667 ppm	75.0 ppm	PASS 29.55 %
30.0 VAC @ 49.9978 Hz	29.9983900	79.55 ppm	29.997613	30.002387	-53.667 ppm	30.0 ppm	PASS 48.99 %
30.0 VAC @ 99.9956 Hz	29.9985000	79.55 ppm	29.997613	30.002387	-50.000 ppm	30.0 ppm	PASS 45.64 %
30.0 VAC @ 399.982 Hz	29.9983400	79.55 ppm	29.997613	30.002387	-55.333 ppm	30.0 ppm	PASS 50.51 %
30.0 VAC @ 999.955 Hz	29.9985100	79.55 ppm	29.997613	30.002387	-49.667 ppm	30.0 ppm	PASS 45.34 %
30.0 VAC @ 1.99991 kHz	29.9986700	79.55 ppm	29.997613	30.002387	-44.333 ppm	30.0 ppm	PASS 40.47 %
30.0 VAC @ 2.99986 kHz	29.9986100	79.55 ppm	29.997613	30.002387	-46.333 ppm	30.0 ppm	PASS 42.29 %
30.0 VAC @ 3.99982 kHz	29.9986800	79.55 ppm	29.997613	30.002387	-44.000 ppm	30.0 ppm	PASS 40.16 %
30.0 VAC @ 4.99977 kHz	29.9987300	79.55 ppm	29.997613	30.002387	-42.333 ppm	30.0 ppm	PASS 38.64 %
30.0 VAC @ 6.24972 kHz	29.9986600	79.55 ppm	29.997613	30.002387	-44.667 ppm	30.0 ppm	PASS 40.77 %
30.0 VAC @ 7.99964 kHz	29.9985900	79.55 ppm	29.997613	30.002387	-47.000 ppm	30.0 ppm	PASS 42.90 %
30.0 VAC @ 9.99955 kHz	29.9984900	79.55 ppm	29.997613	30.002387	-50.333 ppm	30.0 ppm	PASS 45.95 %
30.0 VAC @ 14.99932 kHz	29.9985000	79.55 ppm	29.997613	30.002387	-50.000 ppm	30.0 ppm	PASS 45.64 %
30.0 VAC @ 19.9991 kHz	29.9984900	79.55 ppm	29.997613	30.002387	-50.333 ppm	30.0 ppm	PASS 45.95 %
30.0 VAC @ 29.9986 kHz	29.9977100	218.18 ppm	29.993455	30.006545	-76.333 ppm	70.0 ppm	PASS 26.49 %
30.0 VAC @ 49.9977 kHz	29.9969900	218.18 ppm	29.993455	30.006545	-0.0100 %	70.0 ppm	PASS 34.82 %
30.0 VAC @ 99.9955 kHz	29.9914000	545.45 ppm	29.983636	30.016364	-0.0287 %	150.0 ppm	PASS 41.22 %
30.0 VAC @ 199.991 kHz	29.9761600	2000.00 ppm	29.940000	30.060000	-0.0795 %	300.0 ppm	PASS 34.55 %
30.0 VAC @ 299.986 kHz	29.9372400	2000.00 ppm	29.940000	30.060000	-0.2092 %	300.0 ppm	PASS 90.96 %
30.0 VAC @ 499.977 kHz	29.7950400	5500.00 ppm	29.835000	30.165000	-0.6832 %	300.0 ppm	FAIL 117.79 %
30.0 VAC @ 699.968 kHz	29.6250300	13000.00 ppm	29.610000	30.390000	-1.2499 %	1000.0 ppm	PASS 89.28 %
100.0 VAC @ 14.99939 Hz	99.9953600	79.55 ppm	99.992045	100.007955	-46.400 ppm	75.0 ppm	PASS 30.02 %
100.0 VAC @ 19.9991 Hz	99.9949700	79.55 ppm	99.992045	100.007955	-50.300 ppm	75.0 ppm	PASS 32.55 %
100.0 VAC @ 49.9977 Hz	99.9944400	79.55 ppm	99.992045	100.007955	-55.600 ppm	30.0 ppm	PASS 50.75 %
100.0 VAC @ 99.9955 Hz	99.9942500	79.55 ppm	99.992045	100.007955	-57.500 ppm	30.0 ppm	PASS 52.49 %
100.0 VAC @ 399.982 Hz	99.9943900	79.55 ppm	99.992045	100.007955	-56.100 ppm	30.0 ppm	PASS 51.21 %

100.0 VAC @ 999.955 Hz	99.9946800	79.55 ppm	99.992045	100.007955	-53.200 ppm	30.0 ppm	PASS 48.56 %
100.0 VAC @ 1.99991 kHz	99.9950600	79.55 ppm	99.992045	100.007955	-49.400 ppm	30.0 ppm	PASS 45.09 %
100.0 VAC @ 2.99986 kHz	99.9952900	79.55 ppm	99.992045	100.007955	-47.100 ppm	30.0 ppm	PASS 42.99 %
100.0 VAC @ 3.99982 kHz	99.9954200	79.55 ppm	99.992045	100.007955	-45.800 ppm	30.0 ppm	PASS 41.81 %
100.0 VAC @ 4.99977 kHz	99.9953800	79.55 ppm	99.992045	100.007955	-46.200 ppm	30.0 ppm	PASS 42.17 %
100.0 VAC @ 6.24972 kHz	99.9951800	79.55 ppm	99.992045	100.007955	-48.200 ppm	30.0 ppm	PASS 44.00 %
100.0 VAC @ 7.99964 kHz	99.9950800	79.55 ppm	99.992045	100.007955	-49.200 ppm	30.0 ppm	PASS 44.91 %
100.0 VAC @ 9.99955 kHz	99.9947800	79.55 ppm	99.992045	100.007955	-52.200 ppm	30.0 ppm	PASS 47.65 %
100.0 VAC @ 14.99932 kHz	99.9949900	79.55 ppm	99.992045	100.007955	-50.100 ppm	30.0 ppm	PASS 45.73 %
100.0 VAC @ 19.9991 kHz	99.9948700	79.55 ppm	99.992045	100.007955	-51.300 ppm	30.0 ppm	PASS 46.83 %
100.0 VAC @ 29.9986 kHz	99.9920700	218.18 ppm	99.978182	100.021818	-79.300 ppm	70.0 ppm	PASS 27.52 %
100.0 VAC @ 49.9977 kHz	99.9883300	218.18 ppm	99.978182	100.021818	-0.0117 %	70.0 ppm	PASS 40.50 %
100.0 VAC @ 99.9955 kHz	99.9661800	545.45 ppm	99.945455	100.054545	-0.0338 %	150.0 ppm	PASS 48.63 %
100.0 VAC @ 199.991 kHz	99.8952200	2000.00 ppm	99.800000	100.200000	-0.1048 %	300.0 ppm	PASS 45.56 %
200.0 VAC @ 14.9993 Hz	199.9952000	79.55 ppm	199.984090	200.015910	-24.000 ppm	80.0 ppm	PASS 15.04 %
200.0 VAC @ 19.9991 Hz	199.9940000	79.55 ppm	199.984090	200.015910	-30.000 ppm	80.0 ppm	PASS 18.80 %
200.0 VAC @ 49.9977 Hz	199.9932000	79.55 ppm	199.984090	200.015910	-34.000 ppm	35.0 ppm	PASS 29.68 %
200.0 VAC @ 99.9955 Hz	199.9932000	79.55 ppm	199.984090	200.015910	-34.000 ppm	35.0 ppm	PASS 29.68 %
200.0 VAC @ 399.982 Hz	199.9933000	79.55 ppm	199.984090	200.015910	-33.500 ppm	35.0 ppm	PASS 29.24 %
200.0 VAC @ 999.955 Hz	199.9938000	79.55 ppm	199.984090	200.015910	-31.000 ppm	35.0 ppm	PASS 27.06 %
200.0 VAC @ 1.99991 kHz	199.9938000	79.55 ppm	199.984090	200.015910	-31.000 ppm	35.0 ppm	PASS 27.06 %
200.0 VAC @ 2.99986 kHz	199.9947000	79.55 ppm	199.984090	200.015910	-26.500 ppm	35.0 ppm	PASS 23.13 %
200.0 VAC @ 3.99982 kHz	199.9944000	79.55 ppm	199.984090	200.015910	-28.000 ppm	35.0 ppm	PASS 24.44 %
200.0 VAC @ 4.99977 kHz	199.9944000	79.55 ppm	199.984090	200.015910	-28.000 ppm	35.0 ppm	PASS 24.44 %
200.0 VAC @ 6.24972 kHz	199.9947000	79.55 ppm	199.984090	200.015910	-26.500 ppm	35.0 ppm	PASS 23.13 %
200.0 VAC @ 7.99964 kHz	199.9947000	79.55 ppm	199.984090	200.015910	-26.500 ppm	35.0 ppm	PASS 23.13 %
200.0 VAC @ 9.99955 kHz	199.9954000	79.55 ppm	199.984090	200.015910	-23.000 ppm	35.0 ppm	PASS 20.08 %
200.0 VAC @ 14.99932 kHz	200.0000000	79.55 ppm	199.984090	200.015910	0.000 ppm	35.0 ppm	PASS 0.00 %
200.0 VAC @ 19.9991 kHz	200.0105000	79.55 ppm	199.984090	200.015910	52.500 ppm	35.0 ppm	PASS 45.83 %
200.0 VAC @ 29.9986 kHz	200.0439000	218.18 ppm	199.956364	200.043636	0.0220 %	75.0 ppm	PASS 74.87 %
200.0 VAC @ 49.9977 kHz	200.0384000	218.18 ppm	199.956364	200.043636	0.0192 %	75.0 ppm	PASS 65.49 %
200.0 VAC @ 99.9955 kHz	199.9395000	545.45 ppm	199.890910	200.109090	-0.0302 %	150.0 ppm	PASS 43.50 %
300.0 VAC @ 49.9977 Hz	300.0020000	2000.00 ppm	299.400000	300.600000	6.667 ppm	35.0 ppm	PASS 0.33 %
300.0 VAC @ 99.9955 Hz	300.0002000	78.64 ppm	299.976408	300.023592	0.667 ppm	35.0 ppm	PASS 0.59 %
300.0 VAC @ 399.982 Hz	300.0040000	78.64 ppm	299.976408	300.023592	13.333 ppm	35.0 ppm	PASS 11.73 %
300.0 VAC @ 999.955 Hz	300.0065000	78.64 ppm	299.976408	300.023592	21.667 ppm	35.0 ppm	PASS 19.07 %
500 VAC @ 49.9977 Hz	499.9892000	78.64 ppm	499.960680	500.039320	-21.600 ppm	35.0 ppm	PASS 19.01 %
500 VAC @ 99.9955 Hz	499.9915000	98.64 ppm	499.950680	500.049320	-17.000 ppm	35.0 ppm	PASS 12.72 %
500 VAC @ 399.982 Hz	499.9978000	98.64 ppm	499.950680	500.049320	-4.400 ppm	35.0 ppm	PASS 3.29 %
500 VAC @ 999.955 Hz	500.0014000	98.64 ppm	499.950680	500.049320	2.800 ppm	35.0 ppm	PASS 2.10 %
1000.0 VAC @ 49.9977 Hz	999.9924000	98.64 ppm	999.901360	1000.098640	-7.600 ppm	35.0 ppm	PASS 5.69 %
1000.0 VAC @ 99.9955 Hz	999.9923000	128.64 ppm	999.871360	1000.128640	-7.700 ppm	35.0 ppm	PASS 4.71 %
1000.0 VAC @ 399.982 Hz	1000.0033000	128.64 ppm	999.871360	1000.128640	3.300 ppm	35.0 ppm	PASS 2.02 %
1000.0 VAC @ 999.955 Hz	1000.0132000	128.64 ppm	999.871360	1000.128640	13.200 ppm	35.0 ppm	PASS 8.07 %

Test date	07 August 2018 02:19
UUT Internal TEMP?	NONE

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

Cal.equipment

Test block