

Schedule

CAL-ASIA PTE. LTD.
690 West Camp Road #09-04
JTC Aviation Two
Singapore 797523

Certificate No. : LA-2021-0774-C
Issue No. : 4
Date : 28 February 2025
Expiry of Certificate : 27 February 2029
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FIELD OF TESTING: Calibration and Measurement

MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
A. Electrical RF		
A1. Frequency		
<u>Source</u> 10 MHz (Specific value) 10 Hz to 300 kHz 300 kHz to 6 GHz 6 GHz to 20 GHz	Calibration Procedure CAL020-0420-R04	<u>(Hz)</u> 1.0E-03 2.1E-2 to 4.0E-04 4.0E-4 to 5.0 3.3E+03 to 3.7E+04
<u>Measurement</u> 10 Hz to 300 kHz 300 kHz to 6 GHz 6 GHz to 20 GHz	Calibration Procedure CAL015-0320-R03	<u>(Hz)</u> 1.0E-03 1.0E-03 to 8.0 4.6E+01 to 2.3E+02
A2. RF Power Source (50Ω)	Calibration Procedure CAL020-0420-R04	
<u>Frequency</u> 10 MHz to 18 GHz		
<u>Power Level</u> 0 dBm to 16 dBm -40 dBm to 0 dBm		0.09 dB to 0.17 dB 0.09 dB to 0.17 dB
<u>Frequency</u> 20 MHz to 3 GHz		
<u>Power Level</u> -120 dBm to -40 dBm		0.24 dB
<u>Frequency</u> 3 GHz to 6 GHz		
<u>Power Level</u> -120 dBm to -40 dBm		

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<u>Frequency</u> 6 GHz to 20 GHz <u>Power Level</u> -120 dBm to -40 dBm RF Power Measure <u>Frequency</u> 20 MHz to 2.3 GHz <u>Power Level</u> 10 dBm to -10 dBm -20 dBm to -10 dBm -50 dBm to -20 dBm -80 dBm to -50 dBm -100 dBm to -80 dBm -110 dBm to -100 dBm <u>Frequency</u> 2.3 GHz to 20 GHz <u>Power Level</u> 10 dBm to -10 dBm -10 dBm to -10 dBm -50 dBm to -20 dBm -80 dBm to -50 dBm -100 dBm to -80 dBm -110 dBm to -100 dBm		0.77 dB 1.23 dB 1.04 dB 1.39 dB 1.74 dB 2.08 dB 2.43 dB 3.35 dB 1.74 dB 2.31 dB 2.66 dB 3.01 dB 3.35 dB 4.28 dB
A3. Amplitude Modulation <u>Source</u> <u>Carrier</u> 1.50 MHz to 10 MHz 10 MHz to 1.0 GHz	Calibration Procedure CAL020-0420-R04 Modulation Depth- 5% to 99% Modulation - 50 Hz to 10kHz Modulation Depth- 5% to 99% Modulation - 50 Hz to 50kHz	<u>% AM</u> 0.27 % AM to 2.5 % AM 0.25 % AM to 2.5 % AM

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A4. Frequency Modulation <u>Source</u> <u>Carrier / Modulation</u> 10 MHz to 1 GHz /50 Hz to 100 kHz	Calibration Procedure CAL020-0420-R04 <u>Frequency Deviation</u> 1 kHz to 10 kHz 10 kHz to 40 kHz 40 kHz to 200 kHz	0.13 kHz to 0.24 kHz 0.24 kHz to 0.59 kHz 0.59 kHz to 2.5 kHz
A5. VOR Signal Source Phase Modulation <u>Phase/ FMod</u> 0 ° to 360 ° / 30 Hz & 9960	Calibration Procedure CAL041-0921-R01	0.04 °
A6. CW Power Source <u>Frequency</u> 10 MHz to 500 MHz <u>Power Level</u> 20 dBm to 50 dBm	Calibration Procedure CAL03A-0821-R01	1.46 dB
A7. Pulse Power Source <u>Frequency</u> 980 MHz to 1150 MHz <u>Power Level</u> -30 dBm to 64 dBm	Calibration Procedure CAL042-0921-R01	1.62 dB
A8. Time interval / Period /Pulse (Source/Measure) Time Interval/Period/Pulse 20 ns to 100 ns 100 ns to 1 µs 1 µs to 10 µs 10 µs to 100 µs 100 µs to 1 ms 1 ms to 10 ms 10 ms to 100 ms 100 ms to 1 s 1s to 4 s	Calibration Procedure CAL046-1021-R01	0.36 ns 3.6 ns 0.036 µs 0.36 µs 3.6 µs 0.036 ms 0.36 ms 3.6 ms 14.1 ms

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Approved Signatories

Mr Yuvaraja D - For all items

Mr Tan Chun Kiat - For all items

Mr Ganesh Babu D - For all items

Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.