



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

**TDK TEST SERVICES**  
 1101 Cypress Creek Rd  
 Cedar Park, TX 78613  
 James Wooten      Phone: 512 258 9478

**CALIBRATION**

Valid To: September 30, 2020

Certificate Number: 4867.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

**I. Electrical – RF/Microwave**

Parameter/Equipment	Frequency	CMC <sup>2</sup> (±)	Comments
<b>Biconical Antenna – Antenna Factor</b>			Standard site and identical antenna methods
3 M	(30 to 200) MHz	0.76 dB	ANSI C63-5 (1998)
10 M	(30 to 200) MHz	0.94 dB	ANSI C63-5 (1998), ANSI C63-5 (2006)
<b>Horn Antenna – Antenna Factor</b>			Standard site and identical antenna methods
1 M	700 MHz to 18 GHz	0.57dB	ANSI C63-5 (1998), ANSI C63-5 (2006)
3 M	700 MHz to 18 GHz	0.57 dB	ANSI C63-5 (1998), ANSI C63-5 (2006)
<b>Hybrid Antenna – Antenna Factor</b>			Standard site and identical antenna methods
3 M	30 MHz to 1 GHz (1 to 6) GHz	0.76 dB 0.63 dB	ANSI C63-5 (1998)
10 M	30 MHz to 1 GHz (1 to 6) GHz	0.94 dB 0.74 dB	ANSI C63-5 (1998), ANSI C63-5 (2006)

Parameter/Equipment	Frequency	CMC <sup>2</sup> (±)	Comments
LPDA (Log-Periodic Dipole Array Antenna) – Antenna Factor			Standard site and identical antenna methods
3 M	200 MHz to 1 GHz	0.84 dB	ANSI C63-5 (1998)
10 M	200 MHz to 1 GHz	0.88 dB	ANSI C63-5 (1998), ANSI C63-5 (2006)
Antenna Balance	20 MHz to 18 GHz	0.23 dB	ANSI C63.5 (1998)
	20 MHz to 18 GHz	0.23 dB	ANSI C63.5 (2006)
Antenna VSWR	5 kHz to 20 GHz	0.91 dB	IEEE Std 149-1979

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>3</sup> The OATS is located at the facility address.



## *Accredited Laboratory*

A2LA has accredited

### **TDK TEST SERVICES**

*Cedar Park ,TX*

for technical competence in the field of

### **Calibration**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 5<sup>th</sup> day of September 2018.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 4867.01  
Valid to September 30, 2020  
Revised on April 10, 2019

*For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.*