



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

BUREAU VERITAS CONSUMER PRODUCTS SERVICES, LTD.¹

15 Musick

Irvine, CA 92618

Mr. Leslie Bai Phone: 408 526 1188

ELECTRICAL

Valid to: July 31, 2021

Certificate Number: 3699.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory, as well as the satellite location listed below, to perform the following tests on Bluetooth and Wireless devices:

Test Technology:

Mobile Communications

*(up to 18 GHz -
Radiated emissions)*

Test Method(s):

3GPP TS 31.121; 3GPP TS 31.122;
3GPP TS 31.124; 3GPP TS 34.108;
3GPP TS 34.109; 3GPP TS 34.121-1;
3GPP TS 34.121-2; 3GPP TS 34.123-1;
3GPP TS 34.123-2; 3GPP TS 34.123-3;
3GPP TS 34.124 (*sec 8.2 only*); 3GPP TS 34.171;
3GPP TS 34.229-1; 3GPP TS 34.229-2;
3GPP TS 34.229-3; 3GPP TS 51.010-1;
3GPP TS 36.123 (*sec 8.2 only*); 3GPP TS 36.508;
3GPP TS 36.509; 3GPP TS 36.521-1;
3GPP TS 36.521-2; 3GPP TS 36.521-3;
3GPP TS 36.523-1; 3GPP TS 36.523-2;
3GPP TS 36.523-3; 3GPP TS 37.571-1;
3GPP TS 37.571-2; 3GPP TR 37.901;
3GPP TS 38.523-1;
3GPP TS 51.010-2; 3GPP TS 51.010-4;
3GPP TS 51.010-5;
ANSI C63.27;
EN 301 419-1; EN 301 419-2; EN 301 419-3;
EN 301 419-7; EN 301 420; EN 301 511;
EN 301 908-1; EN 301 908-2; EN 301 908-13;
ETSI TS 102 230; GCF-CC;
PTCRB Bearer-Agnostic TTY Test Specification;
PTCRB PPMD; PTCRB NAPRD.03;
PTCRB PVG.03;
Sprint LTE Test Plans;
MetroPCS LTE Test Plans;
Verizon Wireless Test Specifications:
LTE 3GPP Band 13 RF and RRM Conformance Test Plan
LTE 3GPP Band 13 Supplementary RF Conformance Test Plan
LTE 3GPP Band 13 Signaling Conformance Test Plan
LTE Supplementary Signaling Conformance Test Plan
LTE Data Retry Test Plan
LTE Device – UICC (USIM, ISIM) Interaction Test Plan

Test Technology:

Test Method(s):

Mobile Communications
(cont)

Verizon Wireless Test Specifications (cont):
LTE SMS Test Plan
LTE 3GPP Band 13 Data Throughput Test Plan
LTE AT commands for Test Automation Test Plan
LTE 3GPP Band 13 Supplementary RRM Conformance Test Plan
LTE IMS Registration and Retry Test Plan
LTE 3GPP Band 4 Supplementary RF Conformance Test Plan
LTE Device-UICC (USIM, ISIM) Interaction for Band 4 Test Plan
LTE 3GPP Band 4 Data Throughput Test Plan
LTE Interband Test Plan
LTE 3GPP Band 2 Supplementary RF Conformance Test Plan
LTE 3GPP Band 5 Supplementary RF Conformance Test Plan
LTE Test Plan RichCommServices
IMS VoIP Test Plan
E911 for LTE Only or LTE Multi-Mode VoLTE Capable Devices
hVoLTE Devices Test Plan
LTE Multi-Band Supplementary Signaling Conformance Test Plan
LTE PCO Test Plan
eMBMS Lab Conformance Test Plan
LTE-CDMA InterRAT Performance Test Plan
LTE Multi-Band Data Throughput Test Plan
LTE 3GPP Band 4 and Band 66 Supplementary RF Conformance
SIB8 1XRTT CHANNEL BROADCAST Test Plan
Voice over Wifi Test Plan
USCC LTE Data Throughput Test Plan

Field Trial ²

GSMA TS.11; GSMA TS.35; GSMA TS.40;
OMA-ETS-XMHTML_MP_CON
(Conformance for HXTML Mobile Profile);
OMA-ETS-MMS-INT (Interoperability for MMS);
OMA-ETS-WCSS;
Verizon Wireless Test Specifications:
VoLTE Field Test Plan
LTE OTADM Test Plan
Field Testing - Band 13 Test Plan
Class 3 APN Management - Open Development 4G Device Test
Cases

Application Enabler

OMA-ETS (in accordance with NAPRD.03 and GCF-CC);
IMTC Enabler Test Specifications (in accordance with NAPRD.03 and
GCF-CC);
GSM Association Enabler Test Specifications (in accordance with
NAPRD.03 and GCF-CC);
JAVA Test Specifications

OTA (Over The Air)

CTIA OTA Performance (for Mobile Stations);
CTIA Converged Devices (for RF Performance Evaluation of Wi-Fi
Mobile Converged Devices);
3GPP TS 34.114 (for OTA Antenna Performance);
Verizon Wireless Test Specifications:
LTE Over the Air Radiated Performance Test Plan
Over-The-Air Radiated Performance for CDMA and LTE Multi-
Mode Devices Test Plan
US Cellular Test Specifications:
LTE over the Air Radiated Test Plan
USCC M2M OTA Test Plan

Test Technology:

Test Method(s):

Bluetooth

Bluetooth Radio and Protocol Conformance Testing:
RF:1;
RF-PHY1 (including 20 dBm LE, Core Specification Addendum 5);
RF-PHY2;
BR/EDR Protocols:1 (*only BB*);
LE Protocols:1 (excluding HCI);
Traditional Profile:1;
GATT-Based Profile & Service:1

InternetOfThings (IoT)
Cybersecurity
V2X

CTIA Cybersecurity Certification Test Plan for IoT Devices
Conformance test specifications for Wireless Access in Vehicular Environments (WAVE) – Security Services;
Conformance test specifications for Wireless Access in Vehicular Environments (WAVE) – Networking Services;
Conformance test specifications for Wireless Access in Vehicular Environments (WAVE) – 802.11-TSS&TP;
Conformance test specifications for Wireless Access in Vehicular Environments (WAVE) – Multi-channel Operation -TSS&TP;
Conformance test specifications for SAE J2945/1 - On-board System Requirements for V2V Safety Communications

LoRa

LoRa End Device Certification EU;
LoRa End-Device Certification Requirements for US and Canada

Thread

Thread V1.1 Certification Test Plan

Zigbee

ZigBee IEEE 802.15.4 Test Specification;
ZigBee PRO Compliant Platform Test Specification;
ZigBee PRO Green Power Feature Test Specification;
ZigBee Base Device Behavior Test Specification;
ZigBee Cluster Library Basic Cluster (0x0000) Test Specification;
ZigBee Cluster Library Fan Control Cluster (0x0202) Test Specification;
ZigBee Cluster Library Groups Cluster (0x0004) Test Specification;
ZigBee Cluster Library IAS WD Cluster (0x0502) Library Test Specification;
ZigBee Cluster Library OnOff Cluster (0x0005) Test Specification;
ZigBee Cluster Library Scenes Cluster (0x0005) Test Specification;
Zigbee RF Performance (TRP/TIS) Specification & Test plan

¹ Accreditation is granted to this laboratory at the location listed above as well as the satellite laboratory location listed below

² This laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories for these tests

Test Technology:

Bluetooth

Test Method(s):

Bluetooth Radio Conformance Testing:

RF:1;

RF-PHY1 (including 20 dBm LE, Core Specification Addendum 5);

RF-PHY2

WITHDRAWN



Accredited Laboratory

A2LA has accredited

BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC.

Irvine, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. 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 18th day of November 2019

A handwritten signature in blue ink, written over a horizontal line.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3699.01
Valid to July 31, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.