

Test Technology:

Test Method(s) ²:

Emissions
Radiated and Conducted

CFR 47, FCC Parts 15B/C/D/E/F/G/H (using ANSI C63.4:2014, ANSI C63.10:2020, ANSI C63.10:2013; ANSI C63.17:2013, FCC KDB 905462, and KDB 987594, 18 (using MP-5:1986); ANSI C63.10:2013; ETSI TS 134 124 Universal Mobile Telecommunications System (UMTS); (3GPP TS 34.124); ETSI TS 136 124 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); (3GPP TS 36.124); (3GPP TS38.124 NR; Electromagnetic Compatibility (EMC) Requirements for Mobile Terminals and Ancillary Equipment); ETSI TS 151 010-1 Digital Cellular Telecommunications System (Phase 2+) (GSM); 3GPP TS 51.010-1, Section 12 (Conducted and Radiated Spurious Emissions); EN55011; EN 55032; CNS 13438 (up to 6 GHz); AS/NZS CISPR 11; IEC/CISPR 11; CISPR 32; FCC OET/MP-5; ICES-003; KN 11; KN 32; VCCI V-3(2016.11); VCCI V-3 (2015.04); VCCI 32-1: VCCI-CISPR 32

Accessibility

CFR 47, FCC Part 14

Transmitter/Receiver

RSS 111; RSS 112; RSS 117; RSS 119; RSS 123; RSS 125; RSS 127; RSS 130; RSS 131; RSS 132; RSS 133; RSS 134; RSS 135; RSS 137; RSS 139; RSS 140; RSS 141; RSS 142; RSS 170; RSS 181; RSS 182; RSS 191; RSS 192; RSS 194; RSS 195; RSS 196; RSS 197; RSS 199; RSS 210; RSS 211; RSS 213; RSS 215; RSS 216; RSS 220; RSS 222; RSS 236; RSS 238; RSS 243; RSS 244; RSS 246; RSS 247; RSS 251; RSS 252; RSS 287; RSS 288; RSS 310; RSS Gen

Hearing Aid Compatibility

ANSI C63.19:2007; ANSI C63.19:2011; ANSI C63.19:2019; CTIA Test Plan for Hearing Aid Compatibility v.3.1.1 (2017); FCC KDB 285076, D01 & D02; RSS-HAC

United States Radio

47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87, 90, 95, 96, 97, 101 (using ANSI/TIA-603-E, TIA-102.CAAA-E, ANSI C63.26:2015); FCC KDB 935210;

European Radio

ETSI EN 302 065-1 Version 2.1.1 (2016-11);
ETSI EN 302 065-2 Version 2.1.1 (2016-11);
ETSI EN 302 065-3 Version 2.1.1 (2016-11);
ETSI EN 302 065-4 Version 1.1.1 (2016-11);
ETSI EN 302 291-1 Version 1.1.1 (2005-07);
ETSI EN 302 291-2 Version 1.1.1 (2005-07);
ETSI EN 302 502 Version 2.1.3 (2017-07);
ETSI EN 302 510-1 Version 1.1.1;
ETSI EN 302 510-2 Version 1.1.1;
ETSI EN 302 537 Version 2.1.1 (2016-10);
ETSI EN 301 511 Version 12.5.1 (2017-03);
ETSI EN 301 839 Version 2.1.1 (2016-04);
ETSI EN 301 893 Version 2.1.1 (2017-05);
ETSI EN 301 893 Version 1.8.1 (2015-03);

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European Radio (cont'd)	ETSI EN 301 908-1 Version 13.1.1 (2019-11); ETSI EN 301 908-13 Version 13.1.1 (2019-11); ETSI EN 300 220-1 Version 3.1.1 (2017-02); ETSI EN 300 220-2 Version 3.2.1 (2018-06); ETSI EN 300 328 Version 2.1.1 (2016-11); ETSI EN 300 328 Version 2.2.2 (2019-07); ETSI EN 300 330 Version 2.1.1 (2017-02); ETSI EN 300 440 Version 2. (2.2.1 (2018-07); ETSI EN 300 440-2 Version 1.4.1 (2010-08); KS X 3123, KS X 3142, KS X 3270, KS X 3271; LP0002; DGT LP0002;
Korean Radio	Regulations on Radio Equipment (MSIT Ordinance MSIT No. 1 July 26, 2017); Unlicensed Radio Equipment Established Without Notice (MSIT Public Notification 2019-105, December 23, 2019); Technical Requirements for the Human Protection against Electromagnetic Waves (MSIT Public Notification 2019-4, January 16, 2019); Equipment to be Subject of the Test Procedure for Electromagnetic Field Strength and Specific Absorption Rate (RRA Public Notification 2019-1, January 17, 2019); Technical Requirements for Radio Equipment for Telecommunication Services (RRA Public Notification 2019-9, June 3, 2019); Technical Requirements for Measurement of Electromagnetic Field Strength (RRA Public Notification 2019-3, March 4, 2019)
Australia/New Zealand Radio	AS/NZS 4268:2017
Licensed Wireless Devices	ANSI C63.26:2015

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Test Technology:

OTA
OTA Anechoic Chambers

Test Method(s) ²:

CTIA Test Plan for Wireless Device Over-the-Air Performance for CDMA, 1xEVDO Rev0/A, GSM, GPRS, EGPRS, UMTS (W-CDMA), LTE, CDMA A-GPS, GSM A-GPS, UMTS WCDMA A-GPS;
LTE A-GPS A-Glonass and SIB8 / SIB16;
PTCRB NAPRD03; PTCRB PPMD;
OTA Carrier Aggregation;
OTA ECC Measurements;
VZW OTA Radiated Performance for CDMA & LTE Multimode Devices;
VZW Location Determination Test Plan;
VZW LTE-LBS Performance Test Plan;
SPRINT OTA Antenna Performance Test Plan;
AT&T 13340 OTA;
AT&T IoT Accelerator;
USCC CDMA Over The Air Radiated Test Plan;
USCC LTE Over The Air Radiated Test Plan;
CTIA Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices (Wi-Fi Alliance);
GSMA TS.24 Operator Acceptance Values for Device Antenna Performance;
3GPP TS 34.114 Technical Specification UE/MS OTA Antenna Performance;
3GPP TS 37.544 Technical Specification UTRA & E-UTRA UE OTA Antenna Performance

CTIA IoT Security

CTIA Cybersecurity Certification Test Plan for IoT Devices

SunSpec Alliance

SunSpec – CSIP (Common Smart Inverter Profile) Conformance Test Procedures;
SunSpec – Advanced Function Inverter Test Lab Specification;
SunSpec – UL1741 Supplement SA/Rule 21 Implementation Guide;
IEEE 2030.5-2018 Smart Energy Profile Application Protocol

CBRS (OnGo) / WinnForum

CBRS Alliance Certification Test Plan;
WinnForum Conformance and Performance Test Technical Standards



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PCTEST ENGINEERING LABORATORY, LLC.
9017-F/G Mendenhall Court
Columbia, MD 21045

Test Technology:

Test Method(s) ²:

Battery Safety

IEEE 1725 Standard for Rechargeable Batteries for Cellular Telephones;
CTIA Certification Requirements for Battery System Compliance to IEEE 1725;
IEEE 1625 Standard for Rechargeable Batteries for Multi-Cell Mobile Computing Devices;
CTIA Certification Requirements for Battery System Compliance to IEEE 1625;
UL1642 Standard for Lithium Batteries;
UL 2054 Household and Commercial Batteries;

UL 62133; IEC 62133 Secondary Cells and Batteries containing Alkaline or other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells & Batteries made from them, for use in Portable Applications

UNDOT
Battery Transportation Safety

United Nations Document ST/SG/AC.10/11/Section 38.3 Recommendations on the Transport of Dangerous Goods; Manual of Tests and Criteria;
IEC 62281 – Safety of Primary and Secondary Lithium Cells and Batteries During Transport
Altitude Simulation
Temperature Cycling
Mechanical Shock
Vibration
Short Circuit
Overcharge
Impact/Crush
Forced Discharge

Aerospace
Battery Performance and Safety

NASA Specification for Acceptance Testing of Commercial Lithium Ion Cell Lots Engineering Directorate Propulsion & Power Division, EP-WI-031

Hardware Reliability

CTIA Device Hardware Reliability Test Plan

Determining Battery Life

CTIA Battery Life Test Plan

Safety Requirement for Portable Sealed Secondary Cells

IEC 62133; EN 62133

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Test Technology:

CEC: Energy Efficient Battery Charger System
Immunity

Test Method(s) ²:

Uniform Test Method for Measuring the Energy Consumption of Battery Chargers
EN/IEC 61000-4-2

3801 E. Plano Parkway, Ste 150
Plano, TX 75074

Test Technology:

Radiated Emissions
(10 Meter Test Distance)
(Frequency Range, 30 MHz – 1 GHz)

Test Method(s) ²:

CFR 47, FCC Parts 15B (using ANSI C63.4:2014)
EN55011; EN 55032; CNS 13438 (up to 6 GHz); AS/NZS CISPR 11; IEC/CISPR 11; CISPR 32; FCC OET/MP-5; ICES-003; KN 11; KN 32; VCCI V-3(2016.11);
VCCI V-3 (2015.04); VCCI 32-1; VCCI-CISPR 32

² When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - *General Requirements - Accreditation of ISO-IEC 17025 Laboratories.*

³ This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests.

Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁴:

Rule Subpart/Technology	Test Method	Maximum Frequency
Unintentional Radiators Part 15B	ANSI C63.4:2014	40000 MHz
Industrial, Scientific, and Medical Equipment Part 18	FCC MP-5 (February 1986)	333000 MHz
Intentional Radiators Part 15C	ANSI C63.10:2013	333000 MHz
Unlicensed Personal Communication Systems Devices Part 15D	ANSI C63.17:2013	20000 MHz
U-NIII without DFS Intentional Radiators Part 15E	ANSI C63.10:2013	40000 MHz

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Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁴:

Rule Subpart/Technology	Test Method	Maximum Frequency
U-NII with DFS Intentional Radiators Part 15E	FCC KDB 905462 D02 (v02)	40000 MHz
UWB Intentional Radiators Part 15F	ANSI C63.10:2013	200000 MHz
BPL Intentional Radiators Part 15G	ANSI C63.10:2013	40000 MHz
White Space Device Intentional Radiators Part 15H	ANSI C63.10:2013	40000 MHz
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	333000 MHz
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	333000 MHz
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	333000 MHz
Maritime and Aviation Radio Services Parts 80 and 87	ANSI/TIA-603-E; ANSI C63.26:2015	333000 MHz
Microwave and Millimeter Bands Radio Services Parts 25, 30, 74, 90 (M, DSRC, Y, Z), 95 (M and L), and 101	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	333000 MHz
Broadcast Radio Services Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	333000 MHz
RF Exposure Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000 MHz
Hearing Aid Compatibility Part 20 (HAC for Commercial Mobile Services)	ANSI C63.19:2011	6000 MHz

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Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁴:

Rule Subpart/Technology	Test Method	Maximum Frequency
Signal Boosters Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters) Section 90.219	ANSI C63.26:2015	333000 MHz

⁴Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.

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