

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600143-0

PCTEST Korea Co., Ltd

Gyeonggi-do
South Korea

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2019-03-28 through 2020-03-31

Effective Dates



Dana S. Haman
For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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**ELECTROMAGNETIC
COMPATIBILITY &
TELECOMMUNICATIONS**

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Emissions

Designation

ANSI C63.10 (2013)

Description

American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, DTS; Section 11

ANSI C63.10 (2013)

American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

ANSI C63.26 (2015)

American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

ANSI C63.4 (2014)

Unintentional Radiators in 47 CFR FCC Part 15, Subpart B

ANSI C63.10 (2013)

Intentional Radiators in 47 CFR FCC Part 15, Subpart C

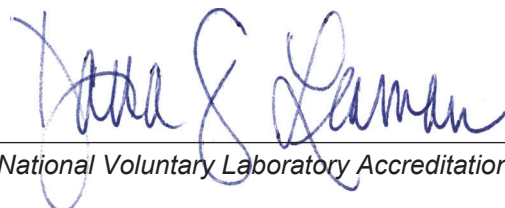
ANSI C63.10 (2013)

Unlicensed National Information Infrastructure Devices without DFS Intentional Radiators in 47 CFR FCC Part 15, Subpart E

FCC OST/MP-5 (1986)

FCC Methods of Measurement of Radio Noise Emissions for ISM Equipment (cited in 47 CFR FCC Part 18 - Industrial, Scientific, and Medical Equipment)

Radio



For the National Voluntary Laboratory Accreditation Program



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<i>Designation</i>	<i>Description</i>
RSS-102, Issue 5 (March 2015)	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) - SAR
RSS-102, Issue 5 (March 2015)	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) - NS; RF Exposure; SAR
SPR-002, Issue 1 (September 2016)	Supplementary Procedure for Assessing Compliance with RSS-102 Nerve Stimulation Exposure Limits
RSS-111, Issue 5 (September 2014)	Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz
RSS-112, Issue 1 (February 2008)	Land Mobile and Fixed Equipment Operating in the Band 1670-1675 MHz
RSS-117, Issue 3 (January, 2016)	Land and Coast Station Transmitters Operating in the 200 - 535 kHz Band
RSS-119, Issue 12 (May 2015)	Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41-960 MHz
RSS-123, Issue 3, (February 2015)	Licensed Low-Power Radio Apparatus
RSS-125 Issue 2, Revision 1 (March 25, 2000)	Land Mobile and Fixed Radio Transmitters and Receivers, 1.705 to 50.0 MHz, Primarily Amplitude Modulated
RSS-127, Issue 1 (August 2009)	Air-Ground Equipment Operating in the Bands 849-851 MHz and 894-896 MHz
RSS-130, Issue 2 (February 2019)	Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz
RSS-130, Issue 1 (October 2013)	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698-756 MHz and 777-787 MHz
RSS-131, Issue 3 (January 2017)	Zone Enhancers
RSS-132, Issue 3 (January 2013)	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz
RSS-133, Issue 6 (January 2013) + Amendment (January 2018)	2 GHz Personal Communications Services
RSS-134, Issue 2 (February 5, 2016)	900 MHz Narrowband Personal Communication Service
RSS-135, Issue 2 (June 2009)	Digital Scanner Receivers
RSS-137, Issue 2 (February 2009)	Location and Monitoring Service (902 - 928 MHz)
RSS-139, Issue 3 (July 2015)	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz
RSS-140, Issue 1 (April 2018)	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
RSS-141, Issue 2 (June 2010)	Aeronautical Radiocommunication Equipment in the Frequency Band 117.975-137 MHz



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RSS-142, Issue 5 (April 2013)	Narrowband Multipoint Communication Systems in the Band 1429.5-1432 MHz
RSS-170, Issue 3 (July 2015)	Mobile Earth Stations (MESs) and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service (MSS) Bands
RSS-181, Issue 1, (April 1, 1971) + Amendment (July 1987)	Coast and Ship Station Single Sideband Radiotelephone Transmitters and Receivers Operating in the 1,605 - 28,000 kHz Band
RSS-182 Issue 5 (January 2012)	Maritime Radio Transmitters and Receivers in the Band 156 - 162.5 MHz
RSS-191, Issue 3 (April 2008)	Local Multipoint Communication Systems in the 28 GHz Band; Point-to-Point and Point-to-Multipoint Broadband Communication Systems in the 24 GHz and 38 GHz Bands
RSS-192, Issue 3 (January 2008)	Fixed Wireless Access Systems in the Band 3450 - 3650 MHz
RSS-194, Issue 1 (October 2007)	Fixed Wireless Access Equipment Operating in the Band 953-960 MHz
RSS-195, Issue 2 (April 2014)	Wireless Communication Service (WCS) Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz
RSS-196, Issue 2 (February 2019)	Point-to-Multipoint Broadband Equipment Operating in the Bands 512-608 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 36)
RSS-196, Issue 1 (March 2010)	Point-to-Multipoint Broadband Equipment Operating in the Bands 512-608 MHz and 614-698 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)
RSS-197, Issue 1 (February 2010)	Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz
RSS-199, Issue 3 (December 2016)	Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz
RSS-210, Issue 9 (August 2016) + A1 (November 2017)	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-211, Issue 1 (March 2015)	Level Probing Radar Equipment
RSS-213, Issue 3 (March 2015)	2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices
RSS-215, Issue 2 (June 2009)	Analogue Scanner Receivers
RSS-216, Issue 2 (January 20, 2016)	Wireless Power Transfer Devices
RSS-220, Issue 1 (March 2009) + A1 (July 2018)	Devices using Ultra-Wideband (UWB) Technology
RSS-222, Issue 1 (February 2015)	White Space Devices (WSDs)
RSS-236, Issue 1 (September 2012)	General Radio Service Equipment Operating in the Band 26.960 to 27.410 MHz (Citizens Band)
RSS:238, Issue 1 (July 2013)	Shipborne Radar in the 2900-3100 MHz and 9225-9500 MHz Bands

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RSS-243, Issue 3, (February 2010)	Medical Devices Operating in the 401-406 MHz Frequency Band
RSS-244, Issue 1 (June 2013)	Medical Devices Operating in the Band 413-457 MHz
RSS-247, Issue 2 (February 2017)	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
RSS-251, Issue 1 (July 2018)	Vehicular Radar and Airport Fixed or Mobile Radar in the 76-81 GHz Frequency Band
RSS-252, Issue 1 (September 2017)	Intelligent Transportation Systems - Dedicated Short Range Communications (DSRC) - On-Board Unit (OBU)
RSS-287, Issue 2 (March 6, 2014)	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)
RSS-288 Issue 1 (January 2012)	Global Maritime Distress and Safety System (GMDSS)
RSS-310, Issue 4 (July 2015)	Licence-Exempt Radio Apparatus: Category II Equipment
RSS-Gen, Issue 5 (April 2018)	General Requirements for Compliance of Radio Apparatus

RF Exposure

Designation

Description

FCC KDB 447498 D01 (October 23, 2015)	RF exposure procedures and equipment authorization policies for mobile and portable devices
FCC KDB 447498 D02 (October 23, 2015)	SAR Measurement Procedures for USB Dongle Transmitters
EN 62209-1 (2016)	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices. Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)
EN 62209-2 (2010)	Human Exposure To Radio Frequency Fields From Hand-Held And Bodymounted Wireless Communication Devices - Human Models, Instrumentation, And Procedures - Part 2: Procedure To Determine The Specific Absorption Rate (Sar) For Wireless Communication Devices Used In Close Proximity To The Human Body (Frequency Range Of 30 Mhz To 6 Ghz)
IEC TR 62630:2010	Guidance for Evaluating Exposure from Multiple Electromagnetic Sources
FCC KDB 648474 D03 (December 16, 2015)	Evaluation and approval considerations for handsets with specific wireless charging battery covers
FCC KDB 648474 D04 (October 23, 2015)	SAR Evaluation Considerations for Wireless Handset
FCC KDB 865664 D02 (October 23, 2015)	RF Exposure Compliance Reporting and Documentation Considerations



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FCC KDB 865664 D01 (August 7, 2015)	SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz
IEEE 1528:2013	Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques; FCC requirements for RF Exposure- Devices subject to SAR requirements
FCC KDB 941225 D07 (October 23, 2015)	SAR Evaluation Procedures for UMPC Mini-Tablet Devices
FCC KDB 248227 D01 (October 23, 2015)	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters
FCC KDB 615223 D01 (October 23, 2015)	802.16e/WIMAX SAR Measurement Guidance
FCC KDB 616217 D04 (October 23, 2015)	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers
FCC KDB 680106 (April 9, 2018)	RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications
FCC KDB 941225 D06 (October 23, 2015)	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
FCC KDB 941225 D05A (October 23, 2015)	REL. 10 LTE SAR Test Guidance and KDB Inquiries
FCC KDB 941225 D05 (December 16, 2015)	SAR Evaluations Considerations for LTE Devices
FCC KDB 941225 D01 (October 23, 2015)	3G SAR Measurement Procedures
FCC KDB 643646 D01 (October 23, 2015)	SAR Test Reduction Considerations for Occupational PTT Radios
IEEE C95.1 -1999	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300 GHz
IEEE Std C95.1 (2005)	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
IEEE Std C95.3.1 (2010)	IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 100 kHz
IEEE Std C95.3 (2002)	IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz - 300 GHz

Telecommunications



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Description

ANSI/TIA/EIA-603-E (2016)

Microwave and Millimeter Wave Bands Radio Services (FCC Licensed Radio Service Equipment) in 47 CFR FCC Parts 25, 30, 74, 90 (M DSRC, Y, Z), 95 (M and L), and 101

ANSI/TIA/EIA-603-E (2016)

Commercial Mobile Services (FCC Licensed Radio Service Equipment) in 47 CFR FCC Parts 22 (cellular), 24, 25 (below 3 GHz), and 27

ANSI/TIA/EIA-603-E (2016)

Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) in 47 CFR FCC Part 96

ANSI/TIA/EIA-603-E (2016)

General Mobile Radio Services (FCC Licensed Radio Service Equipment) in 47 CFR FCC Parts 22(non-cellular), 90 (below 3 GHz), 95, 97 (below 3 GHz), and 101 (below 3 GHz)

ANSI/TIA 603-D (2010) and
TIA-102.CAAA-D with 47 CFR
FCC Part 2

Commercial Mobile Services in 47 CFR FCC Parts 22 (cellular), 24, 25 (non-microwave), and 27

ANSI/TIA 603-D (2010) and
TIA-102.CAAA-D with 47 CFR
FCC Part 2

General Mobile Radio Services in 47 CFR FCC Parts 22 (non-cellular), 90 (non-microwave), 95, 97 and 101 (non-microwave)