



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MiCOM LABS
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ELECTRICAL

Valid to: November 30, 2025

Certificate Number: 2381.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, ***as well as the satellite laboratory location listed below***, to perform the following Electromagnetic Compatibility Testing (EMC) on Information Technology, Medical and Radio Communication Equipment:

| <u>Test:</u> | <u>Test Method(s)¹:</u> |
|--|--|
| <i>Emissions</i> | |
| Radiated and Conducted <i>Unintentional</i> <i>(up to 6 GHz)</i> | 47 CFR FCC Part 15B (using ANSI C63.4:2014); 47 CFR FCC Part 18 (using MP-5:1986); CISPR 32 (excluding equipment within the scope of CISPR 13); EN 55032; BS EN 55032; AS/NZS CISPR 32:2015 + Amd 1:2020; ICES-003; KS C 9832 (excluding broadcast receivers); EN 55011; CISPR 11; ICES-001; KS C 9811; VCCI-CISPR 32:2016 (up to 6 GHz) |
| Harmonic Current Emissions | EN 61000-3-2; IEC 61000-3-2 |
| Flicker | EN 61000-3-3; IEC 61000-3-3 |
| <i>Immunity</i> | |
| Electrostatic Discharge (ESD) | EN 61000-4-2; IEC 61000-4-2; KS C 9610-4-2 |
| Radiated Immunity | EN 61000-4-3; IEC 61000-4-3; KS C 9610-4-3 |
| Electrical Fast Transients/ Bursts | EN 61000-4-4; IEC 61000-4-4; KS C 9610-4-4 |
| Surge Immunity | EN 61000-4-5; IEC 61000-4-5; KS C 9610-4-5 |
| Conducted Immunity | EN 61000-4-6; IEC 61000-4-6; KS C 9610-4-6 |
| Magnetic Fields Immunity <i>(up to 10 A/m)</i> | EN 61000-4-8; IEC 61000-4-8; KS C 9610-4-8 |
| Voltage Dips and Interrupts | EN 61000-4-11; IEC 61000-4-11; KS C 9610-4-11 |
| Generic or Product Specific Standards | EN 61000-6-1; IEC 61000-6-1; EN 61000-6-2; IEC 61000-6-2; EN 61000-6-3; IEC 61000-6-3; AS/NZS 4251.1; EN 61000-6-4; IEC 61000-6-4; AS/NZS 4251.2; EN 61326-1; IEC 61326-1; EN 55035; BS EN 55035; CISPR 35; EN 55024; CISPR 24; KS C 9835 (excluding broadcast receivers) |

| <u>Test:</u> | <u>Test Method(s)¹:</u> |
|---|--|
| Radio | |
| General | RSS-GEN; RSS-102 Measurement (RF Exposure); IEEE C95.3 |
| Licensed Transmitter / Receiver Emissions | 47 CFR FCC Parts 11, 20, 21, 22, 24, 25, 27, 73, 74, 80, 87, 90, 95, 96, 97, and 101 (using ANSI/TIA-603-E and/or ANSI C63.26:2015); EN 301 126-1; EN 301 390; EN 301 751; EN 302 217-1; EN 302 217-2-1; EN 302 217-2-2; EN 302 217-3; EN 303 722; EN 302 326-2; EN 301 997-1; EN 301 997-2; RSS-111; RSS-117; RSS-119; RSS-123; RSS-125; RSS-127; RSS-131; RSS-135; RSS-137; RSS-140; RSS-141; RSS-142; RSS-181; RSS-182; RSS-191; RSS-192; RSS-194; RSS-195; RSS-196; RSS-197; RSS-198; RSS-199 |
| Land Mobile | 47 CFR FCC Part 90 (using ANSI/TIA 603-E); EN 300 113-1; EN 300 113-2; EN 301 166-1; EN 301 166-2; EN 300 390-1; EN 300 390-2; EN 300 471-1; EN 300 471-2; RSS-112; RSS-130 |
| Short Range | EN 300 330-1; EN 300 330-2; EN 300 220-1; EN 300 220-2; EN 300 220-3; EN 300 440-1; EN 300 440-2; EN 300 328; EN 301 893 (Includes on-site DFS); EN 302 502 (Includes on-site DFS); EN 202 131; EN 300 674-1; EN 300 674-2-1; EN 300 674-2-2; EN 302 544-1; EN 302 544-2; EN 302 774; EN 301 091-1; EN 301 091-2; EN 302 208-1; EN 302 208-2; EN 302 291-1; EN 302 291-2; EN 303 204-1; EN 303 204-2; EN 302 065; 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-248; RSS-251; RSS-252; RSS-287; RSS-288 |
| Unlicensed Transmitter / Receiver Emissions | 47 CFR FCC Parts 15C, F, G, H (using ANSI C63.10:2013); 47 CFR FCC Part 15E (using ANSI C63.10-2013 or FCC KDB 905462 D02 (v02)); 47 CFR FCC Part 15D (using ANSI C63.17:2013); RSS-210 |
| Cellular/PCS | 47 CFR FCC Parts 22, 24, 27 (using ANSI/TIA-603-E and/or ANSI C63.26:2015); EN 301 908-1; EN 301 908-2; EN 301 908-3; EN 301 908-13; EN 301 908-14; EN 301 908-18; EN 301 511; RSS-132; RSS-133; RSS-134; RSS-139; RSS-170 |
| Generic and Product Specific Standards | EN 300 386; EN 60601-1-2; IEC 60601-1-2; EN 60601-2-35; EN 301 489-1; KS X 3124; EN 301 489-2; EN 301 489-3; KS X 3125; EN 301 489-4; EN 301 489-5; EN 301 489-6; EN 301 489-7; EN 301 489-8; EN 301 489-9; EN 301 489-10; EN 301 489-12; EN 301 489-13; EN 301 489-15; EN 301 489-16; EN 301 489-17; KS X 3126; EN 301 489-18; EN 301 489-19; EN 301 489-20; EN 301 489-22; EN 301 489-50; EN 301 489-52; KS X 3129; RSS 310 |

| Test: | Test Method(s)¹: |
|---|--|
| <i>Product Safety</i> | |
| ITAV (Audio/video, information and communication technology equipment) | EN/IEC 62368-1; <i>INCLUDED MEASUREMENTS:</i> - Operating Temperatures - Permanence of Marking - Grounding Impedance - Leakage Current - Insulation Resistance - Temperature/Humidity (Environmental Conditioning) - Fault Condition Tests - Current/Voltage/Watts Measurement - Dielectric Strength |
| MEAS (Measurement, control, and laboratory equipment) | EN/IEC 61010-1 |
| MED (Medical equipment) | EN/IEC 60601-1 |
| <i>Country Specific Requirements</i> | |
| <i>Korea</i> | |
| Regulations on Radio Equipment | Ordinance of MSIT No. 86, Jan 4,2022 |
| Unlicensed Radio Equipment Established Without Notice | MSIT Public Notification 2023-18, Jun 20, 2023 |
| Conformity Assessment Procedure of Radio Equipment | KS X 3123 Conformity Assessment Test Methods for Radio Equipment |
| Technical Requirements for Radio Equipment for Telecommunication Services | MSIT Public Notification 2021-15, July 29, 2022 |
| Technical Requirements for Telecommunications Terminal Equipment | RRA Public Notification 2022-16, Sept , 2022 |
| Technical Requirements for Electromagnetic Compatibility | RRA Public Notification 2021-3, Feb 8, 2021 |
| Test Methods for Electromagnetic Compatibility | RRA Public Notification 2021-10, Feb 8, 2021 |
| <i>Hong Kong</i> | HKCA 1039 Issue 6; HKCA 1042 Issue 2; HKCA 1049 Issue 1 |
| <i>Singapore</i> | IMDA TS WBA (October 2016); IMDA TS LMR (October 2016); IMDA TS SRD (Issue 1 Revision 3, Sep 2023) |
| <i>Taiwan</i> | DGT C-IS2031-0 (2020); DGT C-IS2034-1 (2020); DGT LP0002 (2020); CNS 13438 (<i>up to 6 GHz</i>); CNS 15936 (2016) |
| <i>Australia</i> | |
| ACMA Radiocommunications (Short range devices) Standard 2014 | AS/NZS 4268:2017 |

| <u>Test:</u> | <u>Test Method(s)¹:</u> |
|---|---|
| <i>Vietnam</i> | |
| QCVN 54:2020/BTTTT | RF 2.4 GHz Spread Spectrum |
| QCVN 65:2013/BTTTT | National technical regulation on radio access equipment operating in the 5 GHz band |
| TCVN 7317:2003 QCVN 118:2018/BTTTT TCVN 7317:2003 | TTE Immunity Requirements Technical regulation on Electromagnetic compatibility of multimedia equipment – Emission requirements |
| QCVN 55:2011/BTTTT | RFID Equipment |
| QCVN 53:2017/BTTTT | Point-to-point SDH radio equipment |
| QCVN 11:2010/BTTTT | Mobile Station |
| QCVN 73:2013/BTTTT | Technical Regulation on Short Range Devices (SRD) - Radio Equipment to be used in the 25 MHz to 1 GHz Frequency Range |
| QCVN 74:2020/BTTTT | Technical Regulation on Short Range Devices (SRD) - Radio Equipment to be used in the 1 GHz to 40 GHz Frequency Range |
| QCVN 95:2015/BTTTT | Technical Regulation on Radio Frequency Identification Equipment (RFID) Operating in the band 866 MHz to 868 MHz |
| QCVN 96:2015/BTTTT | Technical Regulation on the Electromagnetic Compatibility for Short Range Devices (SRD) Operating on Frequencies between 9 kHz and 40 GHz |
| <i>Japan</i> | JATE Blue Book (2003); JATE Green Book (2003); (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 1 of Radio Law; (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 2 of Radio Law; (Specified Radio Equipment Article 38-2-2, paragraph 1), Item 3 of Radio Law; Telecommunications Business Law (Terminal Equipment): Scope A1 – Terminal Equipment for the Purpose of Calls; Scope A2 – Other Terminal Equipment |

| <u>Test:</u> | <u>Test Method(s)¹:</u> |
|---|---|
| <i>Mexico</i> | |
| Technical Provision IFT-015-2018. Technical specifications of transmitter equipment used in specialized fleet radiocommunication mobile services. | IFT-015-2018 |
| Technical Provision IFT-014-2018. Microwave equipment for point-to-point and point-to-multipoint multichannel fixed service systems. Part I: multiple access radio. | IFT-014-2018: Part 1 |
| Technical Provision IFT-014-2018. Microwave equipment for point-to-point and point-to-multipoint multichannel fixed service systems. Part II: transportation | IFT-014-2018: Part 2 |
| Radiocommunication systems using the spread spectrum technique-Radio frequency communication equipment with frequency hopping and digital modulation to operate in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz- Specifications and test methods. | NOM-208-SCFI-2016 and Technical Provision IFT-008- 2015 |
| <i>CBRS/Winnforum</i> | CBRSA-TS-9001 CBRS Alliance OnGo Certification Test Plan; WINNF-TS-0122 Winnforum CBRS CBSD Test Specification |

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| <u>Test:</u> | <u>Test Method(s):</u> |
|---|--|
| <i>Country Specific Requirements</i> | |
| <i>Japan</i> | Telecommunications Business Law (Terminal Equipment): Scope A1 – Terminal Equipment for the Purpose of Calls; Scope A2 – Other Terminal Equipment; Ministry of Posts and Telecommunication Ordinance No. 31 Terminal Equipment Regulations |

¹ On-site test services are available for the standards listed under unlicensed ISM & UNII bands, Fixed Radio Services, Point-to-Point and Point-to-Multipoint and DFS

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
|---|----------------------------------|--------------------------------|
| <u>Unintentional Radiators</u> Part 15B | ANSI C63.4:2014 | 40000 |
| <u>Industrial, Scientific, and Medical Equipment</u> Part 18 | FCC MP-5 (February 1986) | 40000 |
| <u>Intentional Radiators</u> Part 15C | ANSI C63.10:2013 | 40000 |
| <u>Unlicensed Personal Communication Systems Devices</u> Part 15D | ANSI C63.17:2013 | 40000 |
| <u>U-NIII without DFS Intentional Radiators</u> Part 15E | ANSI C63.10:2013 | 40000 |
| <u>U-NIII with DFS Intentional Radiators</u> Part 15E | FCC KDB 905462 D02 (v02) | 40000 |
| <u>UWB Intentional Radiators</u> Part 15F | ANSI C63.10:2013 | 40000 |
| <u>BPL Intentional Radiators</u> Part 15G | ANSI C63.10:2013 | 40000 |
| <u>White Space Device Intentional Radiators</u> Part 15H | ANSI C63.10:2013 | 40000 |
| <u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27 | ANSI/TIA-603-E; ANSI C63.26:2015 | 40000 |
| <u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz) | ANSI/TIA-603-E; ANSI C63.26:2015 | 110000 |
| <u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u> Part 96 | ANSI/TIA-603-E; ANSI C63.26:2015 | 40000 |

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
|---|----------------------------------|--------------------------------|
| <u>Maritime and Aviation Radio Services</u> Parts 80 and 87 | ANSI/TIA-603-E; ANSI C63.26:2015 | 40000 |
| <u>Microwave and Millimeter Bands Radio Services</u> Parts 25, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101 | ANSI/TIA-603-E; ANSI C63.26:2015 | 110000 |
| <u>Broadcast Radio Services</u> Parts 73 and 74 (below 3 GHz) | ANSI/TIA-603-E; ANSI C63.26:2015 | 40000 |

²Accreditation 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.





Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, 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 28th day of February 2024.

A blue ink signature of Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2025

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