

Prüfbericht-Nr.: Test report no.:	CN25L5XC 002	Auftrags-Nr.: Order no.:	168581279	Seite 1 von 19 Page 1 of 19
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-10-28	
Auftraggeber: Client:	Fujian Newland Payment Technology Co.,Ltd. No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China			
Prüfgegenstand: Test item:	Unattended Terminal			
Bezeichnung / Typ-Nr.: Identification / Type no.:	U200			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247		RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021	
Wareneingangsdatum: Date of sample receipt:	2025-10-31		Please refer to Photo Document	
Prüfmuster-Nr.: Test sample no:	A004122957-005~012 A004122977-005~013			
Prüfzeitraum: Testing period:	2025-11-20 - 2025-11-28			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<u>X Bell Hu</u>		genehmigt von: authorized by:	<u>X Jonathan Li</u>
Datum: Date:	2026-01-14 Signed by: Bell Hu		Ausstellungsdatum: Issue date:	2026-01-14 Signed by: Jonathan Li
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AM6U-WFU200C, IC: 25226-WFU200C, HVIN: U6C_33_00_00_00, U6C_33_02_00_00 PMN: Unattended Terminal This device contains certificated Wi-Fi module (Mode: SC200E-WF, FCC ID: XMR2024SC200EWF, IC: 10224A-24SC200EWF). It's under a new Certification application and the test data for conducted antenna port in this report is cited from the originally granted module, according to KDB 996369 D02 (b). This report is for Bluetooth and 2.4GHz Wi-Fi.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 RADIATED SPURIOUS EMISSION (BT, 2.4GHz Wi-Fi)

RESULT: Pass

5.1.4 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results for Bluetooth BDR/EDR

Appendix B: Test Results for Bluetooth LE

Appendix C: Test Results for 2.4GHz Wi-Fi

Appendix D: Photographs of Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

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2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is Unattended Terminal which supports Bluetooth, 2.4GHz Wi-Fi, 5GHz Wi-Fi and NFC functions.

This report is for Bluetooth and 2.4GHz Wi-Fi.

This device contains certificated Wi-Fi module (Mode: SC200E-WF, FCC ID: XMR2024SC200EWF, IC: 10224A-24SC200EWF). It's under a new Certification application and the test data for conducted antenna port in this report is cited from the originally granted module, according to KDB 996369 D02 (b).

The antenna changed to accommodate the module into the product, details as below

Items	Antenna information	Remark
Wi-Fi Module (SC200E-WF)	Antenna: (Refer to the module reports) 2400 MHz ~ 2483.5 MHz: 0.47 dBi 5150MHz to 5250MHz: -0.67dBi 5250MHz to 5350MHz: -0.19dBi 5470MHz to 5725MHz: 1.28dBi 5725MHz to 5850MHz: 1.10dBi	1. It verified that, except for the antennas, there is no other change made on the module when it installed into the Unattended Terminal. There are no evident variations on RF conducted signals, the conducted power kept in matching with original module.
(Unattended Terminal)	Antenna: (provided by the client) 2400 MHz ~ 2483.5 MHz: 1.9 dBi 5150MHz to 5250MHz: -0.01dBi 5250MHz to 5350MHz: 0.73dBi 5470MHz to 5725MHz: 2.86dBi 5725MHz to 5850MHz: 2.94dBi	2. Comparing with the module antennas, the maximum gains for all the antennas get higher, the final Maximum EIRP were re-evaluated with the new antenna gain. 3. To guarantee the compliance, the RSE were re-tested, as for other test items, please refer the module reports.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Unattended Terminal
Type Designation:	U200
FCC ID:	2AM6U-WFU200C
IC:	25226-WFU200C
HVIN:	U6C_33_00_00_00, U6C_33_02_00_00 The differences between the two configurations is that the U6C_33_00_00_00 has one more brightness sensor, which has no impact on RF characteristics at all. And this difference was evaluated in EMC test.
PMN:	Unattended Terminal
Operating Voltage:	DC 7-48V
Testing Voltage:	DC 12V via the AC/DC adapter (AC 120V, 60Hz)
Technical Specification of Bluetooth (dual mode)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK

Channel Number:	BR & EDR mode:79 channels, Low Energy mode:40 channels
Channel Separation:	BR & EDR mode:1MHz, Low Energy mode:2MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps Low Energy mode: 1Mbps
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	1.9 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462MHz for 802.11b/g/n(HT20) 2422 - 2452MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)/n(HT40) (All data rates considered, only the Worst-cases reported)
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	1.9 dBi (Provided by the Client)
Technical Specification of 5GHz Wi-Fi	
Operating Frequency:	5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Protocol:	802.11 a/n20/n40/ac20/ac40/ac80
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
Data Rate:	6/9/12/18/24/36/48/54 Mbps for 802.11a MCS0~MCS7 for 802.11n MCS0~MCS9 for 802.11ac (All data rates considered, only the Worst-cases reported)
Channel Separation:	20MHz, 40MHz, 80MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	5150MHz to 5250MHz: -0.01dBi 5250MHz to 5350MHz: 0.73dBi 5470MHz to 5725MHz: 2.86dBi 5725MHz to 5850MHz: 2.94dBi (Provided by the Client)
Technical Specification of NFC	
Operating Frequency:	13.56MHz
Antenna Type:	Integral Antenna

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, 2.4GHz Wi-Fi wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Bluetooth transmitting mode (BR & EDR mode)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
SWITCHING ADAPTER	SHENZHEN HONOR ELECTRONIC CO., LTD.	ADS-25SGP-12 12024E	INPUT:100-240V-50/60Hz OUTPUT:12.0V2.0A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

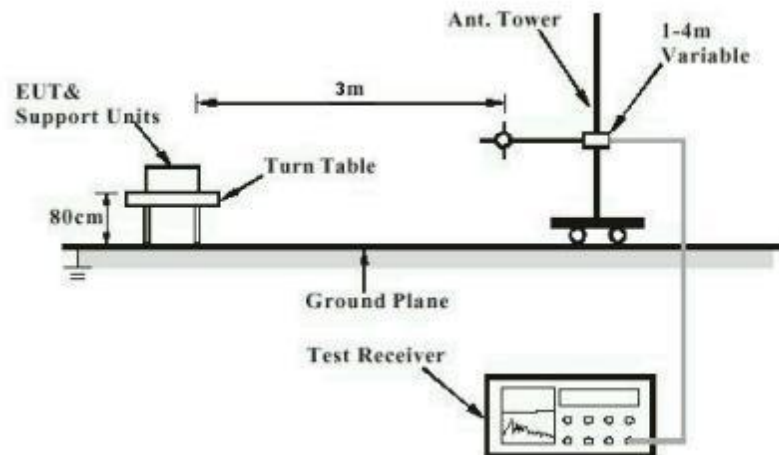


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

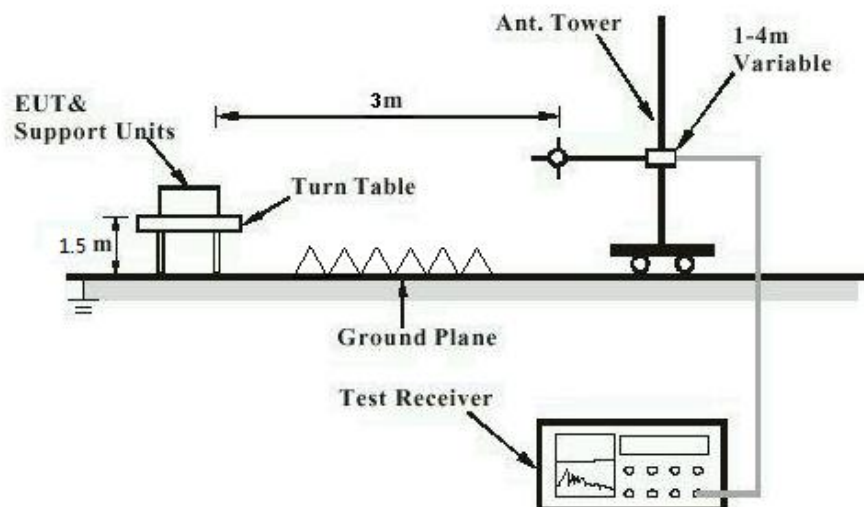


Diagram of Measurement Configuration for Conducted Transmitter Measurement

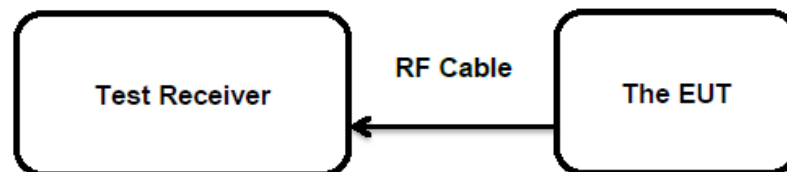
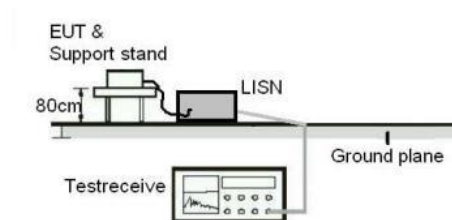


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

The EUT has an integral antenna with a unique connector, which is designed with permanent attachment and no consideration of replacement. Refer to section 3.2 for details

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(b)(3)
	:	RSS-247 Clause 6.3.2
Basic standard	:	ANSI C63.10
Limits	:	1.0 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025-11-20 to 2025-11-28
Operation mode	:	A, B, C
Test channel	:	Low / Middle / High
Ambient temperature	:	24.6 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

It verifies that there is no evident variation in conducted power compared with the original data listed in original module report. All conducted power data in the table below is cited from original module reports and evaluated with the new antenna gain.

Table 5: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
GFSK (BR)	2402.0	8.36	0.0069	< 1.0
	2441.0	9.10	0.0081	
	2480.0	7.56	0.0057	
Pi/4-QPSK (EDR)	2402.0	5.12	0.0033	
	2441.0	6.26	0.0042	
	2480.0	4.85	0.0031	
8DPSK (EDR)	2402.0	5.29	0.0034	
	2441.0	6.41	0.0044	
	2480.0	5.05	0.0032	
Note: The Maximum EIRP=9.1+1.9=11dBm, far less than 36dBm (4W). The Antenna Gain is 1.9dBi Max				

Table 6: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
Bluetooth LE (1 Mbps)	2402	0.11	0.0010	< 1.0
	2440	0.57	0.0011	
	2480	-0.97	0.0008	
Note: The Maximum EIRP=0.11+1.9=2.01dBm, far less than 36dBm (4W). The Antenna Gain is 1.9dBi Max				

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Table 7: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi

Test Mode	Data Rate	Test Channel (MHz)	Measured average Power		Limit (dBm)
			(dBm)	(W)	
802.11b	1 Mbps	2412	17.24	0.0530	30
		2437	17.41	0.0551	
		2462	17.31	0.0538	
802.11g	6 Mbps	2412	17.56	0.0570	
		2437	17.75	0.0596	
		2462	17.68	0.0586	
802.11n (HT20)	MCS0	2412	16.38	0.0435	
		2437	16.50	0.0447	
		2462	16.41	0.0438	
802.11n (HT40)	MCS0	2422	16.35	0.0432	
		2437	16.12	0.0409	
		2452	16.17	0.0414	
Note: The Maximum EIRP=17.75+1.9=19.65dBm, far less than 36dBm (4W). The Antenna Gain is 1.9dBi Max					

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5.1.3 Radiated Spurious Emission (BT, 2.4GHz Wi-Fi)

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 6.6
Basic standard	: ANSI C63.10
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-11-20 to 2025-11-28
Input voltage	: DC 12V via the adapter
Operation mode	: A, B, C
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendixes A, B and C.

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5.1.4 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10:2020
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-10-30
Input voltage	: AC 120V, 60Hz (Via the AC/DC Adapter)
Operation mode	: A,B
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendixes A, B and C.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix C.

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