

Prüfbericht-Nr.: Test report no.:	CN26XR89 002	Auftrags-Nr.: Order no.:	P02582774	Seite 1 von 24 Page 1 of 24	
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-08-09		
Auftraggeber: Client:	Yuyao Sunny Optical Intelligence Technology Co., Ltd. No.1898, Shinan West Road, Yuyao City, Ningbo City, Zhejiang Province. P.R.China				
Prüfgegenstand: Test item:	Dolphin Sense				
Bezeichnung / Typ-Nr.: Identification / Type no.:	AMZN-DS100-G1R-M				
Auftrags-Inhalt: Order content:	Test Report				
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247				
Wareneingangsdatum: Date of sample receipt:	2026-08-25	Please refer to Photo Document			
Prüfmuster-Nr.: Test sample no:	A004385930-001~002 A004385669-001				
Prüfzeitraum: Testing period:	2026-09-01 - 2026-09-24				
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:			genehmigt von: authorized by:		
Datum: Date:	2026-09-27 Signed by: Bell Hu		Ausstellungsdatum: Issue date:	2026-09-27 Signed by: Jonathan Li	
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2BOH9-AMZNDS100G1RM This report is for Bluetooth LE 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 * Legend: 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

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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 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 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 of Bluetooth Low Energy

Appendix B: Test Results of 2.4GHz Wi-Fi

Appendix C: Photographs of the 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, People's Republic of 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

Radio Spectrum Testing (SRD-Tonscend 2)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Wireless Connectivity Tester	R&S	CMW270	101375	07.09.2026	06.09.2027
Signal Analyzer	R&S	FSV 40	101441	07.09.2026	06.09.2027
Vector Signal Generator	R&S	SMBV100A	263301	07.09.2026	06.09.2027
Signal Generator	R&S	SMB100A	115186	07.09.2026	06.09.2027
Automation Control Unit	Tonscend	JS0806-2	21C8060396	07.09.2026	06.09.2027
Control PC	Lenovo	1HH43Q4	F807B09DD5F 1	N/A	N/A
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Power Meter	R&S	NRP2	107105	07.09.2026	06.09.2027
Power Sensor	R&S	NRP-Z81	105677	07.09.2026	06.09.2027
Shielding Room	Albatross	SR1	APC17151-SR1	07.09.2026	06.09.2027
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	11.09.2026	10.09.2027
Signal Analyzer	R&S	FSV 40	101439	11.09.2026	10.09.2027
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	11.09.2026	10.09.2027
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	11.09.2026	10.09.2027
Amplifier	R&S	SCU-18F	180070	11.09.2026	10.09.2027
Amplifier	R&S	SCU40A	100475	11.09.2026	10.09.2027
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	13.09.2026	12.09.2028
Double-Ridged Antenna(1 -18 GHz)	ETS-LINDGREN	3117	00218717	13.09.2026	12.09.2028

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Wideband Ridged Horn Antenna(18-40 GHz)	Steatite	QMS-00880	19067	13.09.2026	12.09.2028
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	13.09.2026	12.09.2028
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	14.09.2024	13.09.2027
Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until	
EMI Test Receiver	R&S	ESR3	102680	2027-02-03	
Artificial Mains Network	R&S	ENV216	102333	2027-07-20	
Artificial Mains Network	R&S	ENV216	101445	2027-02-03	
EMC32 Test Software	R&S	EMC32(Ver.10.60.20)	N/A	N/A	

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.

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)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.24 dB / ± 3.24 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.

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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, People's Republic of 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 Dolphin Sense, which supports Bluetooth, 2.4GHz Wi-Fi and 5GHz Wi-Fi wireless technology.

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

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:	Dolphin Sense
Type Designation:	AMZN-DS100-G1R-M
FCC ID:	2BOH9-AMZNDS100G1RM
Operating Voltage:	DC 12V via AC/DC Adapter
Testing Voltage:	DC 12V via AC/DC Adapter
Technical Specification of Bluetooth LE	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2MHz
Data Rate:	1Mbps, 2Mbps
Antenna Type:	External antenna with Unique (non-standard) antenna connector (RP-SMA)
Antenna Gain:	1.01 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20)/ax(HE20) 2422 - 2452 MHz for 802.11n(HT40)/ax(HE40)
Type of Modulation:	DSSS, OFDM, OFDMA
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 MCS0 ~ MCS11 for 802.11ax (All data rates considered, only the Worst-cases reported.)
Channel Number:	11 channels for 802.11b/g/n(HT20)/ax(HE20) 7 channels for 802.11n(HT40)/ax(HE40)
Channel Separation:	5 MHz
Antenna Type:	External antenna with Unique (non-standard) antenna connector (RP-SMA)
Antenna Number:	2Tx2Rx
Antenna Gain:	1.01 dBi for ANT1/2, (Provided by the Client)
RU Mode for 802.11ax:	☒ Full RU, ☐ Single RU

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.

Table 4: RF Channel and Frequency

Technologies	Test Channels (MHz)
Bluetooth LE	L/M/H: 2402, 2440, 2480

Technologies	Bandwidth	Test Channels (MHz)
2.4GHz Wi-Fi	20MHz	L/M/H: 2412, 2437, 2462
	40MHz	L/M/H: 2422, 2437, 2452

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode (Low / Middle / High channel)
- B. On, 2.4GHz Wi-Fi transmitting mode (Low / Middle / High channel)

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Operation Description
- User Manual
- 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.

According to clause 3.1, all tests were performed on model *AMZN-DS100-G1R-M* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Remark
Laptop	Lenovo	ThinkPad T14	---
AC/DC Adapter	JINGSAI	GCQ120M-1201000-E1	Input: 100–240V, 50/60 Hz; Output: 12V

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)

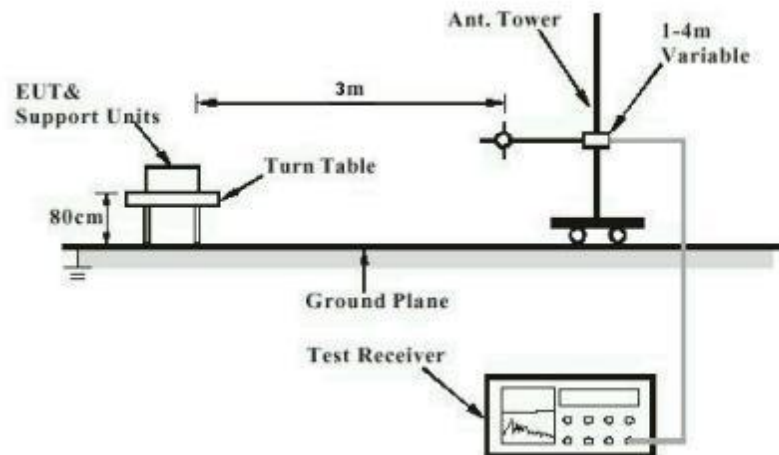


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

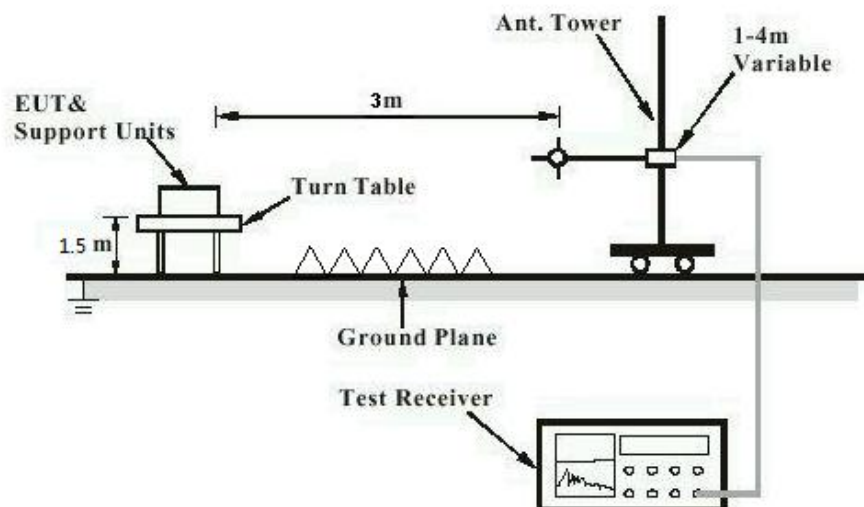


Diagram of Measurement Configuration for Mains Conduction Measurement

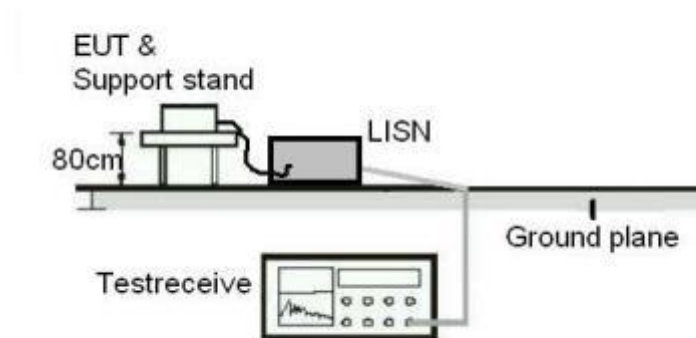
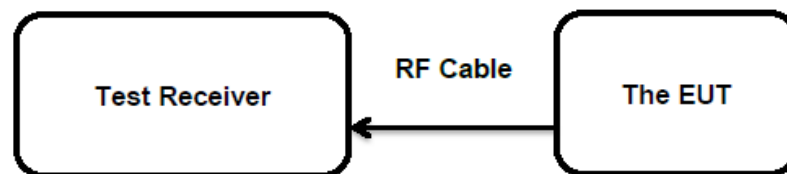


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 external antennas with Unique (non-standard) antenna connector (RP-SMA), 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.

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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 C63.10:2020
Limits	: < 1.0 W (30dBm)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-09-02 to 2026-09-24
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.8 °C
Relative humidity	: 54 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

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

Test Mode	Channel (MHz)	Measured Peak Power (dBm)	Limit (dBm)	Verdict
Bluetooth LE (1 Mbps)	2402	10.72	≤30.00	PASS
	2440	10.99	≤30.00	PASS
	2480	10.55	≤30.00	PASS
Bluetooth LE (2 Mbps)	2402	10.61	≤30.00	PASS
	2440	10.86	≤30.00	PASS
	2480	10.53	≤30.00	PASS
Bluetooth LE (S8)	2402	10.55	≤30.00	PASS
	2440	10.85	≤30.00	PASS
	2480	10.52	≤30.00	PASS
Bluetooth LE (S2)	2402	10.55	≤30.00	PASS
	2440	10.80	≤30.00	PASS
	2480	10.44	≤30.00	PASS

Max. e.i.r.p.=10.99dBm+1.01dBi=12.00dBm, which is less than 36dBm=4W.

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

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	21.99	≤30.00	PASS
	Ant2	2412	20.40	≤30.00	PASS
	Ant1	2437	21.69	≤30.00	PASS
	Ant2	2437	20.21	≤30.00	PASS
	Ant1	2462	22.07	≤30.00	PASS
	Ant2	2462	20.66	≤30.00	PASS
11G	Ant1	2412	22.97	≤30.00	PASS
	Ant2	2412	20.96	≤30.00	PASS
	Ant1	2437	22.77	≤30.00	PASS
	Ant2	2437	20.74	≤30.00	PASS
	Ant1	2462	23.36	≤30.00	PASS
	Ant2	2462	20.93	≤30.00	PASS
11N20MIMO	Ant1	2412	23.22	≤30.00	PASS
	Ant2	2412	21.17	≤30.00	PASS
	total	2412	25.33	≤30.00	PASS
	Ant1	2437	22.49	≤30.00	PASS
	Ant2	2437	20.54	≤30.00	PASS
	total	2437	24.63	≤30.00	PASS
	Ant1	2462	23.12	≤30.00	PASS
	Ant2	2462	20.57	≤30.00	PASS
	total	2462	25.04	≤30.00	PASS
11N40MIMO	Ant1	2422	19.77	≤30.00	PASS
	Ant2	2422	17.97	≤30.00	PASS
	total	2422	21.97	≤30.00	PASS
	Ant1	2437	19.96	≤30.00	PASS
	Ant2	2437	17.81	≤30.00	PASS
	total	2437	22.03	≤30.00	PASS
	Ant1	2452	19.80	≤30.00	PASS
	Ant2	2452	17.37	≤30.00	PASS
	total	2452	21.06	≤30.00	PASS
11AX20MIMO	Ant1	2412	22.66	≤30.00	PASS
	Ant2	2412	21.02	≤30.00	PASS
	total	2412	24.93	≤30.00	PASS
	Ant1	2437	23.05	≤30.00	PASS
	Ant2	2437	21.09	≤30.00	PASS
	total	2437	25.19	≤30.00	PASS
	Ant1	2462	23.98	≤30.00	PASS

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11AX40MIMO	Ant2	2462	20.97	≤30.00	PASS
	total	2462	25.74	≤30.00	PASS
	Ant1	2422	20.30	≤30.00	PASS
	Ant2	2422	18.22	≤30.00	PASS
	total	2422	22.39	≤30.00	PASS
	Ant1	2437	19.56	≤30.00	PASS
	Ant2	2437	18.91	≤30.00	PASS
	total	2437	22.26	≤30.00	PASS
	Ant1	2452	20.23	≤30.00	PASS
	Ant2	2452	18.18	≤30.00	PASS
	total	2452	22.34	≤30.00	PASS

Max. e.i.r.p.=25.74dBm+1.01dBi=26.75dBm, which is less than 36dBm=4W.

Note:

- 1) The cable loss is taken into account in results.
- 2) e.i.r.p.= $P_{(\text{Peak power})} + G$, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

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

Test standard	: FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-09-02 to 2026-09-24
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.8 °C
Relative humidity	: 54 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.4 6dB Bandwidth

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

Test standard	:	FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	:	ANSI C63.10:2020
Limits	:	> 500 kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-09-02 to 2026-09-24
Input voltage	:	DC 12V
Operation mode	:	A, B
Test channel	:	Low / Middle / High
Ambient temperature	:	23.8 °C
Relative humidity	:	54 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.5 99% Bandwidth

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

Test standard	: FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020
Limits	: Within assigned band 2400-2483.5MHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-09-02 to 2026-09-24
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.8 °C
Relative humidity	: 54 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) RSS-247 Clause 6.6
Basic standard	: ANSI C63.10:2020
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-09-02 to 2026-09-24
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.8 °C
Relative humidity	: 54 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B.

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5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 2.4
Basic standard	: ANSI C63.10:2020
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	: 2026-08-10 to 2026-08-17
Input voltage	: DC 12V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test results
Relative humidity	: Refer to test results
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 appendix A, B.

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5.1.8 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207 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	: 2026-09-14
Input voltage	: AC 120V, 60Hz
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 appendix A, B.

6 Photographs of the Test Set-Up

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

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