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TEST REPORT

Test Result :	PASS *		
Date of Issue:	2023/11/14		
Date of Test:	2023/10/10 to 2023/10/19		
Date of Receipt:	2023/09/21		
Standards:	47 CFR Part 96.47		
FCC ID:	2AANY-ODU		
Trade Mark:	inhand		
Model No.:	ODU2x02 (Where 'x' represents the numbers '0-9')		
EUT Description:	5G Outdoor Unit		
Address of Manufacturer:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing		
Manufacturer:	Beijing InHand Networks Technology Co., Ltd.		
Address of Applicant:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing		
Applicant:	Beijing InHand Networks Technology Co., Ltd.		
Application No.:	ZEWM2309001398RG		

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Keny. KN

Keny Xu Laboratory Manager



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1 Version

Revision Record				
Version Chapter Date Modifier Remark				
01		2023/11/14		Original

Prepared By	Jaun Huang (Jack Huang) / Test Engineer
Checked By	Flora Wang (Flora Wang) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Result	Verdict
End User Device additional requiement	§96.47	Clause 4.1	Pass

Remark:

According to the Declaration letter from client, Models No.: ODU2x02, Where 'x' represents the numbers '0-9'. Therefore in this report only the Model No.(ODU2002) was tested, and internal wiring were identical for all above items. Only different on model No. for marketing requirement.



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3 General Information

3.1 Details of Client

Applicant:	Beijing InHand Networks Technology Co., Ltd.	
Address of Applicant:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing	
Manufacturer:	Beijing InHand Networks Technology Co., Ltd.	
Address of Manufacturer:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing	

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch		
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China		
Post code:	518057		
Test engineer:	Jinhua Wei		

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336.

Test Firm Registration Number: 787754



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3.4 General Description of EUT

EUT Description:	5G Outdoor Unit		
Model No.:	ODU2x02 (Where 'x' represents the numbers '0-9')		
Trade Mark:	inhand		
Hardware Version:	V1.2		
Software Version:	V2.0		
Power Supply:	POE 50V		
IMEI:	862424050027870		
Antenna Type:	TNC fiberglass rod antenna		
Transmitter Frequnecy Band:	LTE Band 48		
Transmitter Frequnecy Range:	3550 to 3700 MHz		
	LTE Band 48: 3.01dBi (Ant1); 3.01dBi (Ant6)		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
Remark:	d and confirmed by the applicant. SCS is not lighter to the accuracy		

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~23	50	
Remark:	·		
NV: Normal Voltage NT: No	rmal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.		
POE POWER Supply*	RISUNIC Technology (ShenZhen) Co.,Ltd.	RP030W01-5000300YE		
LTE Base Station	Baicells Technologies Co.,Ltd. (FCC ID: 2AG32MBS3			
Remark: the information with"*" are provided by client.				



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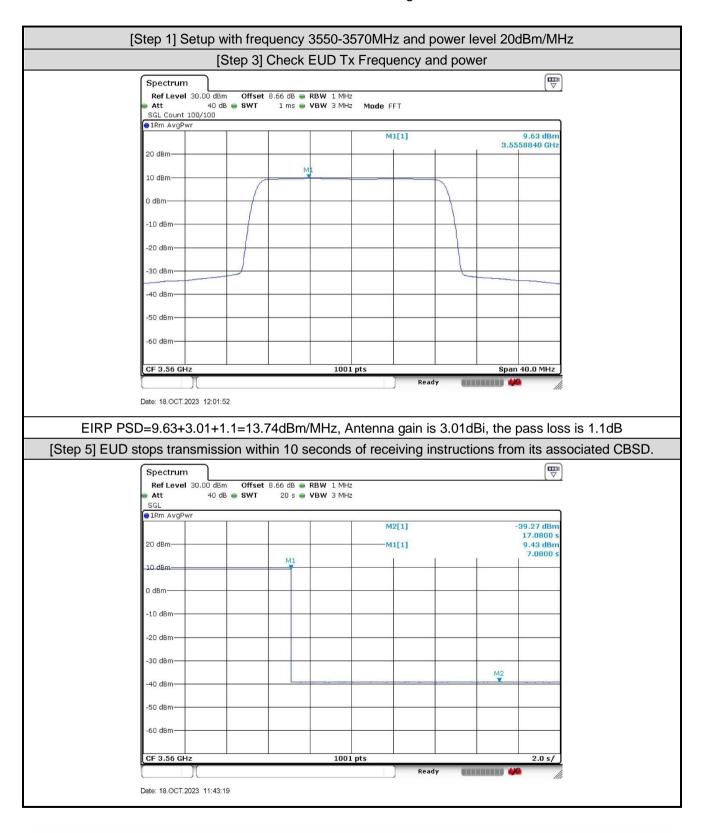
4 Description of Tests

4.1 End User Device additional requiement

Test Requirement:	FCC Part 96.47		
Test Method:	WINNF-18-IN-00178 CBRS End User Devices as UUT Test Guidelines		
Requirement:	 (a)End User Devices may operate only if they can positively receive and decode anauthorization signal transmitted by a CBSD, including the frequencies and power limits fortheir operation. (1)An End User Device must discontinue operations, change frequencies, or changeits operational power level within 10 seconds of receiving instructions from its associated CBSD. 		
Test Procedure:	 Setup with frequency 3550-3570MHz and power level 20dBm/MHz Enable AP service from Ruckus Cloud management Check EUD Tx Frequency and power Disable AP service from Ruckus Cloud management Check EUD stops transmission within 10seconds. Setup with 3590-3610MHz & power level 8dBm/MHz Enable AP service from Ruckus Cloud management Check EUD Tx Frequency and power Inable AP service from Ruckus Cloud management Check EUD Tx Frequency and power Disable AP service from Ruckus Cloud management Check EUD Tx Frequency and power Disable AP service from Ruckus Cloud management Check EUD tops transmission within 10seconds. 		
Test setup:	Companion Device		



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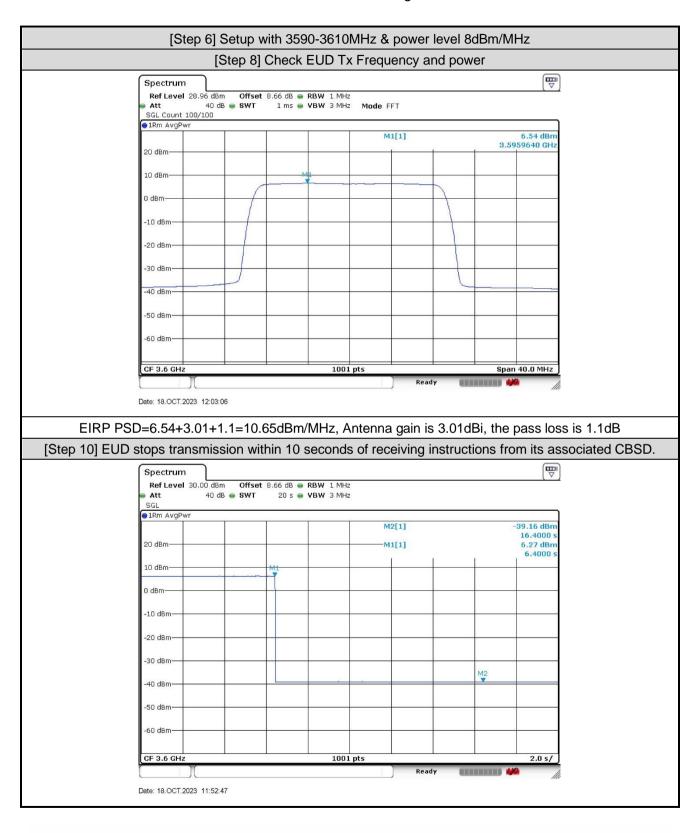


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5 Main Test Instruments

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-032	2023/02/17	2024/02/16
Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2023/02/16	2024/02/15



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6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in

accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 9.84Hz
2	RF conducted power	± 0.42dB

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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7 Appendixes

Setup Photos

Appendix A.4 - Setup Photos-part96.47

---End of Report---



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