

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZ-R12-2200067

CE RF Test Report

(5GHz RLAN)

Applicant: Nebra Ltd

Address of Applicant: Unit 4 Bells Yew Green Business Court, Bells Yew Green,

Tunbridge Wells, East Sussex, TN3 9BJ

Equipment Under Test (EUT)

Product Name: Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Nebra

Indoor Helium Hotspot ROCK Pi 4 Version

Model No.: NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-

HHRK4-868, NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2, NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3, NEBHNT-HHRK4-433-3. NEBHNT-HHRK4-470-3. NEBHNT-

HHRK4-868-3, NEBHNT-HHRK4-915-3

Standards: ETSI EN 301 893 V2.1.1 (2017-05)

Date of Receipt: 05 Jan., 2022

Date of Test: 06 Jan., to 24 Jan., 2022

Date of Issue: 25 Jan., 2022

Test Result: PASS

Tested by: Date: 25 Jan., 2022

Reviewed by: Date: 25 Jan., 2022

Approved by: Date: 25 Jan., 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	25 Jan., 2022	Original





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4 Test Summary

Test Items	Test Requirement	Test Method	Limit / Severity Resul		
	Radio Spectrum I	Matter (RSM) Part o	of Tx		
Centre frequencies	Clause 4.2.1	Clause 5.4.2	±20 ppm	PASS*	
Nominal Channel Bandwidth and Occupied Channel Bandwidth	Clause 4.2.2	Clause 5.4.3	>5MHz and 80%~100% Nominal Bandwidth	PASS*	
RF Output Power,EIRP	clause 4.2.3	Clause 5.4.4	Table 2	PASS*	
Power Spectrum Density	clause 4.2.3	Clause 5.4.4	Table 2	PASS*	
Transmitter unwanted emissions outside the 5 GHz RLAN bands	clause 4.2.4.1	clause 5.4.5	Table 4	PASS	
Transmitter unwanted emissions within the 5 GHz RLAN bands	clause 4.2.4.2	clause 5.4.6	Figure 1	PASS*	
Dynamic Frequency Selection (DFS)	clause 4.2.6	clause 5.4.8.2.1.6	clause 4.2.6.2.5.2	N/A	
Adaptivity (Channel AccessMechanism)	clause 4.2.7	clause 5.4.9	clause 4.2.7.3.3.3	PASS*	
User Access Restrictions	clause 4.2.9	clause 4.2.9	clause 4.2.9.2	PASS*	
	Radio Spectrum M	Matter (RSM) Part o	of Rx		
Receiver spurious emissions	clause 4.2.5	clause 5.4.7	Table 5	PASS	
Receiver Blocking	clause 4.2.8	clause 5.4.10	clause 4.2.8.4	PASS*	

Remark

- 1. Tx: In this whole report Tx (or tx) means Transmitter.
- 2. Rx: In this whole report Rx (or rx) means Receiver.
- 3. PASS: Meet the requirement.
- 4. Pass*: Please refer to the report No.: BCTC2109795863-6E issue by Shenzhen BCTC Testing Co., Ltd, The module used by EUT in this report is that of Report BCTC2109795863-6E.





5 General Information

5.1 Client Information

Applicant:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells, East Sussex, TN3 9BJ
Manufacturer:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells, East Sussex, TN3 9BJ

5.2 General Description of E.U.T.

J.Z General Desci	·puon ·							
Product Name:		Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Nebra Indoor Helium Hotspot ROCK Pi 4 Version						
Model No.:	NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-HHRK4-868, NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2, NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-915-3, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3							
Hardware version:	v1							
Software version:	781099d							
Operating Frequency:	Band 1: 5	180MHz~5240MH						
Nominal Bandwidth	20MHz: 802.11a 802.11n-HT20 802.11ac-VHT20							
	40MHz:	802.11n-HT40	802.11ac-VHT40					
	80MHz:	802.11-VHT80						
Channel Spacing:	10MHz							
Modulation:	OFDM							
Antenna Type:	EXternal A	Antenna						
Antenna Gain	1 dBi							
TPC:	Not suppo	ort						
Device Classification:	☐ Frame	Based Equipmer	nt					
		Based Equipment						
Remark:	Model no.: NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-HHRK4-868, NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2, NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3, The difference between the models is that the LoRa Radio module used inside is different for each variant. Along with a respective antenna for each region / frequency. The -2 and -3 flags at the end of the model number relates to the specific chip part number for the main LoRa chip.							





5.3 Test environment and test mode

Operating Environmen	Operating Environment:						
Temperature:	Normal: 15° C ~ 35° C, Extreme: -20° C ~ $+40^{\circ}$ C						
Humidity:	20 % ~ 75 % RH						
Atmospheric Pressure:	1008 mbar						
Voltage:	Nominal: 230Vac, Extreme: Low 207Vac, High 253Vac						
Test mode:							
Transmitting mode:	Keep the EUT in continuously transmitting mode with modulation.						
Receiving mode:	Keep the EUT in receiving mode.						
We have verified the construction and function in typical operation. All the test items were carried out with							
the ELIT in above test modes. And the test results are both the "worst case" and "worst setup" 6 Mbps for							

We have verified the construction and function in typical operation. All the test items were carried out with the EUT in above test modes. And the test results are both the "worst case" and "worst setup" 6 Mbps for 802.11a, 6.5 Mbps for 802.11n(HT20), 13.5 Mbps for 802.11n(HT40), 29.3 Mbps for 802.11ac(HT80).

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radio Frequency	±10ppm
RF Power, Conducted	±1.5 dB
RF Power, Radiated	±4.44 dB
Spurious emission, Conducted	±3.0 dB
Temperature	±2°C
Humidity	±5 %
Time	±10%
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● A2LA - Registration No.: 4346.01

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. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-105-C Ro.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366 Page 6 of 17





5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax:+86-755-23116366

Email: info-JYTee@lets.com, Website: http://jyt.lets.com

5.9 Test Instruments list

		Radiated Emission:			
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS 9m*6m*6m		WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	03-07-2021	03-06-2022
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-27-2021	10-26-2022
Signal Generator	Agilent	N5173B	WXJ006-7	03-25-2021	03-24-2022
Coaxial Cable (30MHz ~ 1GHz)	JYT	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Coaxial Cable (18GHz ~ 40GHz)	JYT	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N	/A
Test Software	Tonscend	RE/RSE/RS Test System	Version: 3.0.0.1		





6 Technical requirements specification

6.1 Justification

The EUT and test equipment were configured for testing according to ETSI EN 301 893 V2.1.1 (2017-05). The EUT was tested in the normal operating mode to represent worst-case results during the final qualification test.

6.2 Test Configuration of EUT

Channel List of 5150MHz ~ 5250MHz									
802.11a/n(HT	20)/ac(HT20)	802.11n(HT4	40)/ac(HT40)	802.11ac(HT80)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)				
36	5180	38	5190	42	5210				
40	5200	46	5230						
44	5220								
48	5240								

Note:

- 1. Selected channel No.36 to perform the test of 802.11a/n(HT20)/ac(HT20).
- 2. Selected channel No.38 to perform the test of 802.11n(HT40)/ac(HT40).
- 3. Selected channel No.42 to perform the test of 802.11ac(HT80).

	Test plan of 5150MHz ~ 5250MHz																					
	Test Conditions		ions	Channel No.		nnel No. Modulated Mode			T	est m	ode											
Clause No.	NVNT	NVLT	NVHV	36	38	42			802.11n		802.11ac		Tx	Rx	Normal							
NO.	NVNI	NVLI	NVIIV	36	30 42	30 42	36 42	30 42	30 42		42 802.11a	802.11a	002.11a	002.11a	HT20	HT40	HT20	HT40	HT80	IX	КX	Normai
4.2.4.1	\checkmark			\checkmark	√	√		V	√				\checkmark									
4.2.5	V			V	V	√	V	\checkmark	V	1	V	V		V								

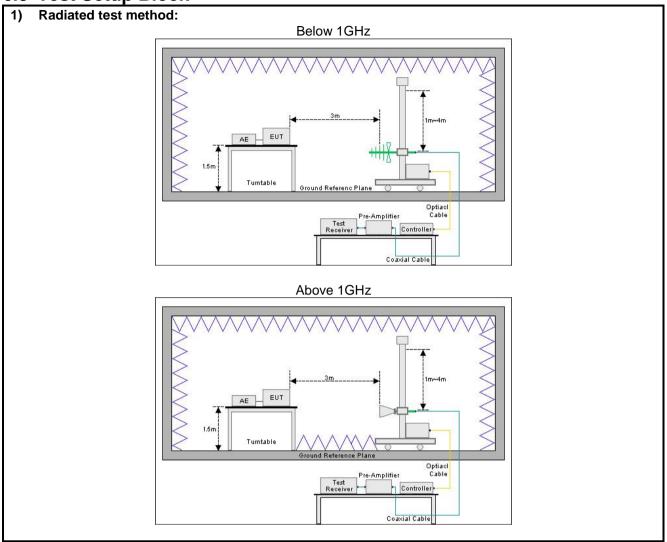
Note

- 1. "√" means that this configuration is chosen for test.
- 2. "NVNT" means Normal Voltage Normal Temperature, "NVLT" means Normal Voltage Low Temperature, "NVHT" means Normal Voltage High Temperature.
- 3. Clause No.: "4.2.3^{PSD"} was Power Density test item.

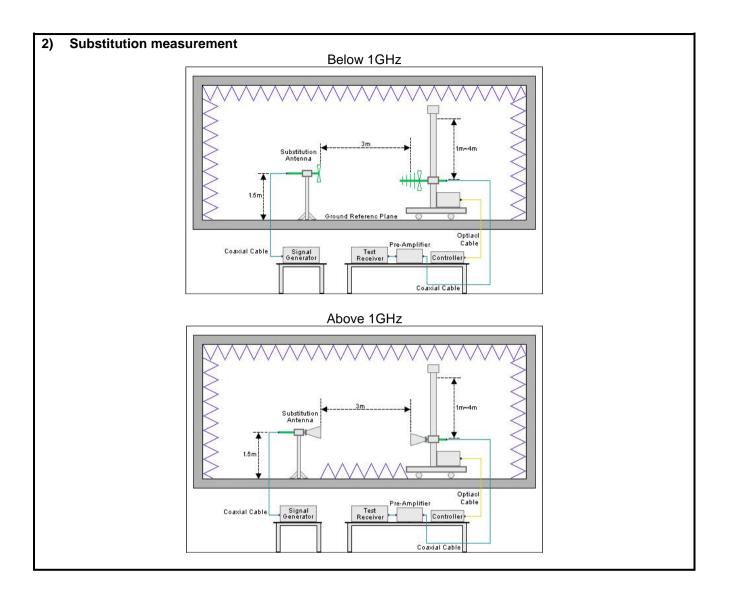




6.3 Test Setup Block











6.4 Test Results

6.4.1 Test Result Summary

	Test Frequ	ency Range: 5150MHz	z ~ 5250MHz	
Clause No.	Mode	Test Condition	Test Data	Verdict
		NVNT		
		LVLT	Defeate the remark :	
4.2.1	UNMODULATION	LVHT	Refer to the report.: BCTC2109795863-6E	Pass
		HVLT	BC1C2109795863-6E	
		HVHT		
	802.11 a & n(HT20) &		Refer to the report.:	
4.2.2	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	Pass
	ac(HT40) & ac(HT80)		BC1C2109793803-6E	
	802.11 a & n(HT20) &	NVNT	Refer to the report.:	
4.2.3	n(HT40) & ac(HT20) &	NVLT	BCTC2109795863-6E	Pass
	ac(HT40) & ac(HT80)	NVHT	BC1C2109793003-0E	
	802.11 a & n(HT20) &		Refer to the report.:	Pass
4.2.3 ^{PSD}	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	
	ac(HT40) & ac(HT80)		B0102103733003 0E	
	802.11 a & n(HT20) &		Refer to the report.:	
4.2.4.1	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	Pass
	ac(HT40) & ac(HT80)		201021001000000	
	802.11 a & n(HT20) &		Refer to the report.: BCTC2109795863-6E	Pass
4.2.4.2	n(HT40) & ac(HT20) &	NVNT		
	ac(HT40) & ac(HT80)			
	802.11 a & n(HT20) &			Pass
4.2.5	n(HT40) & ac(HT20) &	NVNT	See Section 6.4.3	
	ac(HT40) & ac(HT80)		B. C. C. H	
4.2.6	N/A	N/A	Refer to the report.:	Pass
	000 44 - 8 - (LITOO) 8		BCTC2109795863-6E	
407	802.11 a & n(HT20) &	NIV /NIT	Refer to the report.:	D
4.2.7	n(HT40) & ac(HT20) &	NVNT	BCTC2109795863-6E	Pass
	ac(HT40) & ac(HT80)			
4.2.8	802.11 a & n(HT20) & n(HT40) & ac(HT20) &	NVNT	See Section 6.4.2	Page
	ac(HT40) & ac(HT20) &	INVINI	See Section 6.4.2	Pass
			Refer to the report.:	
4.2.9	N/A	N/A	BCTC2109795863-6E	Pass

Note:

^{1. &}quot;NVNT" means Normal Voltage Normal Temperature, "LT" means Low Temperature, "HT" means High Temperature, "LV" means Low Voltage, "HV" means High Voltag.





6.4.2 Unwanted emissions in the spurious domain

802.11a mode Lowest channel									
Fragueray (MU=)	Spurious	Emission	Limit (dDm)	Test Result					
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)						
105.42	Vertical	-84.93	E4.00						
201.81	V	-81.72	-54.00						
381.38	V	-81.23	20.00						
944.71	V	-72.14	-36.00						
10360.00	V	-41.27	-30.00	DACC					
50.13	Horizontal	-81.55	54.00	PASS					
221.21	Н	-82.52	-54.00						
345.74	Н	-82.43	00.00						
807.46	Н	-72.25	-36.00						
10360.00	Н	-42.49	-30.00						

	802.11n20 mode Lowest channel					
Francisco (MIII-)	Spurious Emission		Limit (dDms)	Took Dooule		
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result		
105.42	Vertical	-84.31	54.00			
201.81	V	-81.26	-54.00			
381.38	V	-81.09	-36.00			
944.71	V	-72.24				
10360.00	V	-41.50	-30.00	DACC		
50.13	Horizontal	-81.33	54.00	PASS		
221.21	Н	-82.49	-54.00			
345.74	Н	-82.63	-36.00			
807.46	Н	-72.22				
10360.00	Н	-42.35	-30.00			

802.11n40 mode Lowest channel					
- (MIL)	Spurious	Emission	Limit (dDm)	Test Besult	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
105.42	Vertical	-84.76	54.00		
201.81	V	-81.49	-54.00		
381.38	V	-80.91	20.00		
944.71	V	-72.57	-36.00		
10380.00	V	-41.57	-30.00		
50.13	Horizontal	-81.23	54.00	PASS	
221.21	Н	-82.06	-54.00		
345.74	Н	-82.46	20.00		
807.46	Н	-71.82	-36.00		
10380.00	Н	-42.75	-30.00		



802.11ac20 mode Lowest channel					
	Spurious I	Emission	Limit (JDm)		
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
105.42	Vertical	-84.77	54.00		
201.81	V	-81.55	-54.00	l	
381.38	V	-80.75	-36.00		
944.71	V	-71.45		- -	
10360.00	V	-41.10	-30.00		
50.13	Horizontal	-81.22	54.00	PASS	
221.21	Н	-83.35	-54.00		
345.74	Н	-83.42	-36.00		
807.46	Н	-72.56			
10360.00	Н	-41.98	-30.00		

802.11ac40 mode Lowest channel					
	Spurious	Emission	Limit (dDm)		
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
105.42	Vertical	-84.35	54.00		
201.81	V	-81.07	-54.00		
381.38	V	-81.05	-36.00		
944.71	V	-71.93			
10380.00	V	-41.51	-30.00	DA 00	
50.13	Horizontal	-81.53	54.00	PASS	
221.21	Н	-82.97	-54.00		
345.74	Н	-83.10	-36.00		
807.46	Н	-72.70			
10380.00	Н	-41.99	-30.00		

802.11ac80 mode middle channel					
Fraguency (MU=)	Spurious	Emission	Limit (dDm)	Test Result	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	rest Result	
105.42	Vertical	-85.05	F4.00		
201.81	V	-81.58	-54.00		
381.38	V	-81.14	20.00		
944.71	V	-71.66	-36.00	DAGG.	
10420.00	V	-40.65	-30.00		
50.13	Horizontal	-80.94	54.00	PASS	
221.21	Н	-83.79	-54.00		
345.74	Н	-83.80	-36.00		
807.46	Н	-72.48			
10420.00	Н	-41.80	-30.00		





6.4.3 Receiver spurious emissions

802.11a mode Lowest channel					
- ()	Spurious	Spurious Emission		Toot Booult	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-80.85	-57.00		
675.29	V	-75.51			
10360.00	V	-61.97	-47.00	DAGG	
310.57	Horizontal	-83.73	57.00	PASS	
656.14	Н	-76.84	-57.00		
10360.00	Н	-64.08	-47.00		

802.11n20 mode Lowest channel					
Francisco (MILIT)	Spurious	Emission	Limit (dDm)	Took Dooule	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-81.26	57.00		
675.29	V	-75.63	-57.00		
10360.00	V	-62.51	-47.00	DAGG	
310.57	Horizontal	-83.09	57.00	PASS	
656.14	Н	-76.74	-57.00		
10360.00	Н	-63.83	-47.00		

802.11n40 mode Lowest channel					
Francisco (MIII-)	Spurious I	Spurious Emission		Took Dooult	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-81.31	-57.00		
675.29	V	-75.79			
10380.00	V	-62.14	-47.00	D400	
310.57	Horizontal	-83.55	57.00	PASS	
656.14	Н	-76.71	-57.00		
10380.00	Н	-63.80	-47.00		





802.11ac20 mode Lowest channel					
- (Spurious I	Spurious Emission		Took Dooule	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-80.44	57.00		
675.29	V	-76.13	-57.00		
10360.00	V	-62.65	-47.00	DAGG	
310.57	Horizontal	-83.76	57.00	PASS	
656.14	Н	-76.66	-57.00		
10360.00	Н	-64.61	-47.00		

802.11ac40 mode Lowest channel					
Francisco (MIII-)	Spurious I	Emission	Limit (dDm)	Took Doould	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-80.86	-57.00		
675.29	V	-75.64			
10380.00	V	-62.78	-47.00	DACC	
310.57	Horizontal	-83.28	57.00	PASS	
656.14	Н	-76.71	-57.00		
10380.00	Н	-64.29	-47.00		

802.11ac80 mode middle channel					
Francisco (MIII-)	Spurious	Emission	Limit (dDms)	Took Doould	
Frequency (MHz)	Polarization	Level(dBm)	Limit (dBm)	Test Result	
344.64	Vertical	-80.73	-57.00		
675.29	V	-76.07			
10420.00	V	-62.44	-47.00	DACC	
310.57	Horizontal	-83.58	57.00	PASS	
656.14	Н	-76.19	-57.00		
10420.00	Н	-65.11	-47.00		

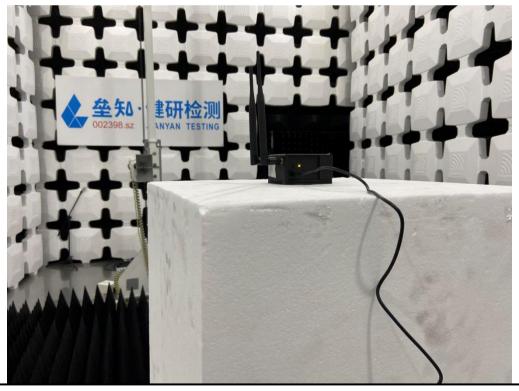




7 Test Setup Photos



Radiated Emission Above 1GHz







8 EUT Constructional Details

Refer to the report No.: JYTSZ-R01-2200018.

--- End of report---