

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240200028201

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TEST REPORT

Application No.: KSCR2402000282AT

FCC ID: WBKRU424048
Applicant: BTI Wireless

Address of Applicant: 11205 Knott Avenue -Suite A, Cypress, CA 90630, United States

Manufacturer: BTI Wireless

Address of Manufacturer: 11205 Knott Avenue -Suite A, Cypress, CA 90630, United States

Equipment Under Test (EUT):

EUT Name: 5G Pico Remote Radio Unit

Model No.: RU4240

Trade mark:

BTIWIRELESS

Standard(s): 47 CFR Part 2

47 CFR Part 96

Date of Receipt: 2024-02-26

Date of Test: 2024-03-20 to 2024-05-09

Date of Issue: 2024-05-10

Test Result: Pass

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
00	Original	2024-05-10		/		

Authorized for issue by:		
Tested By	cloudpeng	
	Cloud Peng /Project Engineer	
Approved By	Verry Hon	
	Terry Hou /Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	PASS
Peak-Average Ratio	§96.41	PASS
Modulation Characteristics	§2.1047	PASS
Bandwidth	§96.41	PASS
Band Edge Compliance	§2.1051, §96.41	PASS
Spurious emissions at antenna terminals	§2.1051, §96.41	PASS
Field strength of spurious radiation	§2.1051, §96.41	PASS
Frequency stability	§2.1055,	PASS

Remark:

This base station supports N48, N77 and N78, and the frequency range is 3550-3700MHz. So we evaluated and tested all the band of Power and PSD, and the rest of the test items were tested based on the maximum power.

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.



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4 General Information

4.1 Details of E.U.T.

Product Name:	5G pRRU	
Model No.:	RU4240	
Antenna Type:	External Antenna	
Antenna Gain:	Max Antenna Gain 2.0 dBi(Provided by manufacturer)	
Power Supply:	48V DC, ±20%	
Test Voltage	DC 48V	
Sample Type:	Category A CBSD	
Support Bandwidth:	60/80/100Mhz	
Type of Modulation	5G NR: CP-OFDM: QPSK, 256QAM	
Frequency Band:	5GNR N48,N77,N78	
Frequency Range:	3550MHz-3700MHz	
Normal Output Power:	For SISO Mode: 24±1dBm (downlink)	
	For MIMO Mode: 30±1dBm (downlink)	
Antenna Delivery:	4T4R MIMO	

4.2 Test Frequency

5G NR Band n78 (3550-3700MHz)	SCS Carrier	Corrior	Bandwidth (MHz)	Channel			
		Carrier		Low	Middle	High	
	30kHz	1CC	60	3580.02	3624.99	3669.99	
	30kHz	1CC	80	3590.01	3624.99	3660	
	30kHz	1CC	100	3600	3624.99	3649.98	



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4.3 Test Support Unit

Description	Manufacture	Model No.	S/N
Notebook	ThinkPad	K27	EB24537645
EU	Bravo	EU200	N/A

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty	
1	Radio Frequency	8.4 x 10 ⁻⁸	
2	Timeout	2s	
3	Duty Cycle	0.37%	
4	Occupied Bandwidth	3%	
5	RF Conducted Power	0.6dB	
6	RF Power Density	2.9dB	
7	Conducted Spurious Emissions	0.75dB	
0	DE Dadieted Dawer	5.2dB (Below 1GHz)	
8	RF Radiated Power	5.9dB (Above 1GHz)	
		4.2dB (Below 30MHz)	
0	Radiated Spurious Emission Test	4.5dB (30MHz-1GHz)	
9		5.1dB (1GHz-18GHz)	
		5.4dB (Above 18GHz)	
10	Temperature Test	1°C	
11	Humidity Test	3%	
12	Supply Voltages	1.5%	
13	Time	3%	

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
- 3. Sample source: sent by customer.

4.6 Test Facility

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

A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISEC

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date	
RF Co	RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/24/2023	08/23/2024	
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/24/2023	08/23/2024	
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2024	01/14/2025	
4	Signal Generator	R&S	SMBV100B	KSEM032	03/19/2024	03/18/2025	
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/24/2023	08/23/2024	
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/24/2023	08/23/2024	
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/24/2023	08/23/2024	
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/19/2024	03/18/2025	
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/24/2023	08/23/2024	
10	Switcher	CCSRF	FY562	KUS2001M001-3	08/24/2023	08/23/2024	
11	AC Power Source	EXTECH	6605	KS301178	N/A	N/A	
12	DC Power Supply	Aglient	E3632A	KS301180	N/A	N/A	
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	02/02/2024	02/01/2025	
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	08/24/2023	08/23/2024	
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/21/2024	03/20/2025	
16	Software	BST	TST-PASS	/	N/A	N/A	
RF Rac	diated Test	,	,	,		.	
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/24/2023	08/23/2024	
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	03/19/2024	03/18/2025	
3	Signal Generator	Agilent	E8257C	KS301066	08/24/2023	08/23/2024	
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025	
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2023	06/28/2025	
6	Bilog Antenna	SCHWARZBEC K	VULB9160	CZ301016	03/19/2024	03/18/2027	
7	Horn-antenna(1- 18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026	
8	Horn-antenna(1- 18GHz)	ETS-LINDGREN	3117	KS301186	04/07/2023	04/06/2025	
9	Horn Antenna(18- 40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/17/2024	01/16/2026	
10	Horn Antenna(18- 40GHz)	Schwarzbeck	BBHA9170	KS301187	01/17/2024	01/16/2026	
11	Amplifier(30MHz~18GH z)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/15/2024	01/14/2025	
12	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	08/24/2023	08/23/2025	
13	RE Test Cable	REBES MICROWAVE	/	CZ301097	08/24/2023	08/23/2024	
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	03/21/2024	03/20/2025	
15	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A	



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: EIRP≤ 47dBm/10MHz, PSD≤ 37dBm/MHz

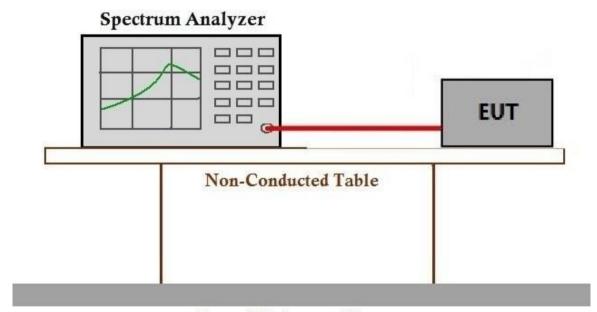
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data



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6.2 Peak-Average Ratio

Test Requirement: §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

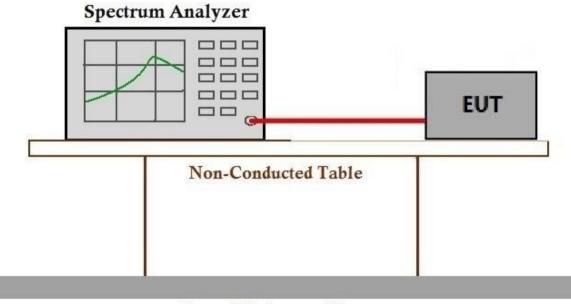
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data



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6.3 Band Edge Compliance

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Except as otherwise specified in paragraph (e)(2) of this section, for channel

and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the

combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

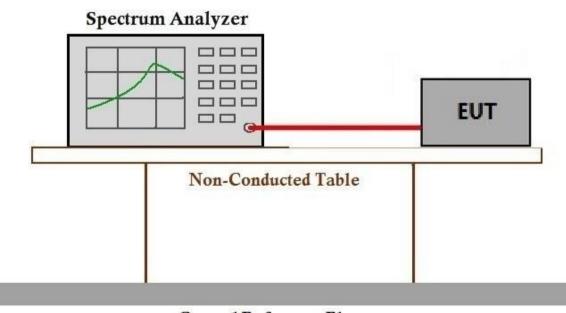
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data



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6.4 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Except as otherwise specified in paragraph (e)(2) of this section, for channel

and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed –13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed –25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the

combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

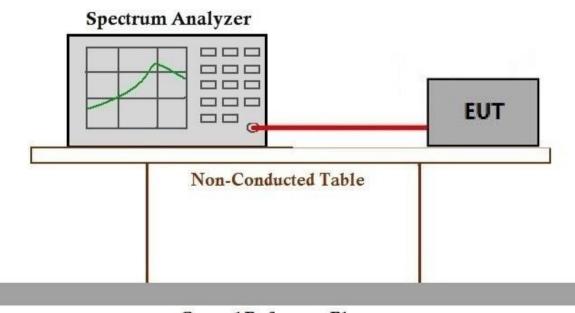
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Data



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6.5 Field strength of spurious radiation

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:

Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed –13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed –25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Note: For MIMO mode, the conducted Bandedge/Spurious are tested at single antenna port and add 10*log(NANT) according to KDB 662911 D01, only the worst MIMO Ant is shown in the report.

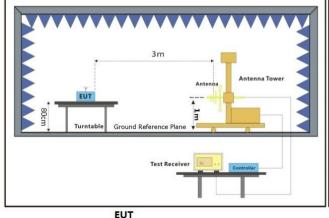
6.5.1 E.U.T. Operation

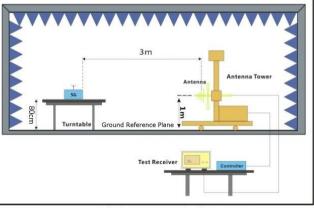
Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram





Substitue Antenna+Signal Generator



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6.5.3 Measurement Procedure and Data

Test Procedure:

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6)The transmitter shall than be rotated through 360 in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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6.6 Frequency stability

Test Requirement: §2.1055

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Fundamental emission stays within authorized frequency block

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram

Spectrum Analyzer EUT Non-Conducted Table

Ground Reference Plane



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6.6.3 Measurement Data



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -