

Suzhou ShiRuizhuo Technology Co., Ltd.

TEST REPORT

SCOPE OF WORK:

RF report-C2PC

MODEL:

RRAR5MON

REPORT NUMBER:

2607B1370SHA-005

ISSUE DATE:

Jul 31, 2026

DOCUMENT CONTROL NUMBER:

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FCC ID: 2BQXJ-RRAR3MON01

IC: 34326-RRAR3MON01

LTE CAT4 module FCC ID: XMR202212EG25GL

LTE CAT4 module IC: 10224A-2022EG25GL

Summary:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC 47 CFR Part 2, FCC 47 CFR Part 22, FCC 47 CFR Part 24, FCC 47 CFR Part 27, FCC 47 CFR Part 90, ANSI C63.26:2015

RSS 130 Issue 2, RSS 132 Issue 4, RSS 133 Issue 7, RSS 139 Issue 4, RSS 199 Issue 4, RSS Gen Issue 5+A1+A2

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Revision History

Report No.	Version	Description	Issued Date
2607B1370SHA-005	Rev. 01	Initial issue of report	Jul 31, 2026

Statement

This report applies for C2PC (Existing Family) for FCC ID: 2BQXJ-RRAR3MON01, IC: 34326-RRAR3MON01. Add the new model/HVIN: RRAR5MON. Compared with the original product (model/HVIN: RRAR3MON, RRAR4MON), the new product (model/HVIN: RRAR5MON) only changes a bigger capacity battery pack and uses a bigger rated power charger, all others are fully same including the RF parts. After evaluation, RSE was re-tested and the data is listed in this report. All other data refer to the original report: 2509B1059SHA-007.

Measurement result summary

TEST ITEM	FCC REFERENCE	IC REFERENCE	Result
Spurious Emission (Radiated)	2.1053, 22.917(a), 24.238(a), 27.53(c) (f) (g) (h) (m), 90.691(a)	RSS-130 §4.7, RSS-132 §5.5 RSS-133 §6.5, RSS-139 §6.6 RSS-199 §4.5	Pass

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Robotic Lawn Mower
Type/Model/PMN/HVIN:	RRAR5MON
Description of EUT:	The EUT is Robotic Lawn Mower. The EUT contains WIFI2.4G, WIFI5G, BLE, 4G and LORA functions. This report is for 4G. The worst data is listed in the report.
Rating:	Rated Input: 32VDC/5.8A
EUT type:	☐ Table top ☒ Floor standing
Hardware Version:	Refer to the certified module report
Software Version:	Refer to the certified module report
Sample No.:	A260715-60-002
Sample received date:	Jul 17, 2026
Date of test:	Jul 17~24, 2026

1.2 Technical Information

GSM Band:	GSM 850, PCS1900
UMTS Band:	Band 2, 4, 5
E-UTRA Band:	Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41, 66
Antenna Information:	Max 2.92dBi, PCB antenna(Declared by manufacturer)
For details, refer to FCC certified module reports: 2211RSU065-U1, 2211RSU065-U2, 2211RSU065-U3, 2211RSU065-U4 and ISED certified module reports: 2211RSU065-C1, 2211RSU065-C2, 2211RSU065-C3.	

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353
The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014

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	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC 47 CFR Part 2, FCC 47 CFR Part 22, FCC 47 CFR Part 24, FCC 47 CFR Part 27, FCC 47 CFR Part 90, ANSI C63.26:2015

RSS 130 Issue 2, RSS 132 Issue 4, RSS 133 Issue 7, RSS 139 Issue 4, RSS 199 Issue 4, RSS Gen Issue 5+A1+A2

2.2 Mode of operation during the test

Within this test report, EUT was pretested under all available operation modes and the worst results were listed in the report.

LTE mode: LTE Bands communicated with CMW500.

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals used

Item No.	Name	Band and Model	Description
-	-	-	-

2.5 Test environment condition:

Test items	Temperature	Humidity
Radiated Spurious Emission	22°C	55% RH

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2.6 Instrument list

Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Test Receiver	R&S	ESIB 26	EC 3045	2026-08-18
☒	TRILOG broadband Antenna	Schwarzbeck	VULB9168	EC 6402	2027-04-07
☒	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2026-12-09
☒	Horn antenna	Tonscend	bha9120d	EC 6432-2	2027-04-10
☒	Universal Radio Communication Tester	R&S	CMW500	EC5944	2027-03-11
☒	Semi-anechoic chamber	Albatross	-	EC 3048	2027-06-09
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Thermo-Hygraph	Testo	175h1	EC 6643	2026-08-29

2.7 Measurement Uncertainty

Test item	Measurement uncertainty
Maximum peak output power	$\pm 0.74\text{dB}$
Radiated Emissions in restricted frequency bands below 1GHz	$\pm 4.90\text{dB}$
Radiated Emissions in restricted frequency bands above 1GHz	$\pm 5.02\text{dB}$
Emission outside the frequency band	$\pm 2.89\text{dB}$
Power line conducted emission	$\pm 3.19\text{dB}$

3 Radiated spurious emissions

Test result: Pass

3.1 Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

For Band 7, 38/41 For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth

For LTE Band 13, For operations in the 746-758 MHz, 775 -788 MHz, and 805- 806 MHz bands, emissions in the band 1559- 1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

3.2 Measurement Procedure

The field strength of spurious emission was measured in the following position:

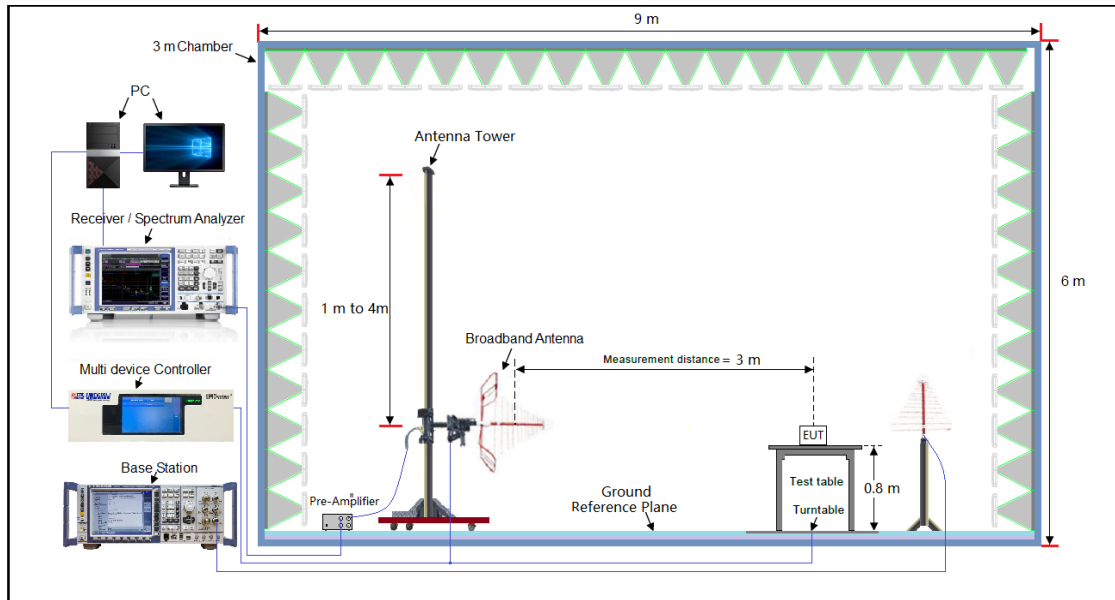
1. Connect the EUT to BS and ensure the EUT worked at maximum output power.
2. Initially the test antenna is closely coupled to the MS and any spurious emission radiated by the MS is detected by the test antenna and receiver.
3. Radiated Spurious Emission is tested under normal temperature and normal voltage conditions.
4. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
5. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
6. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
7. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note:

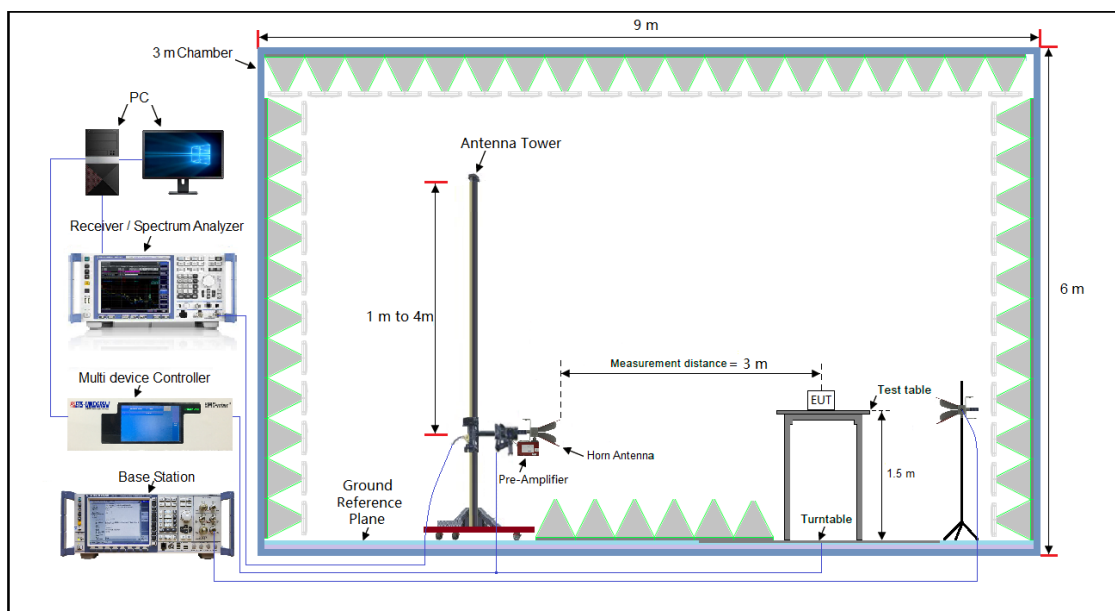
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 100kHz and the video bandwidth is 300kHz for Peak detection (PK) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

3.3 Test Setup

Radiated Emissions 30MHz to 1GHz Test setup

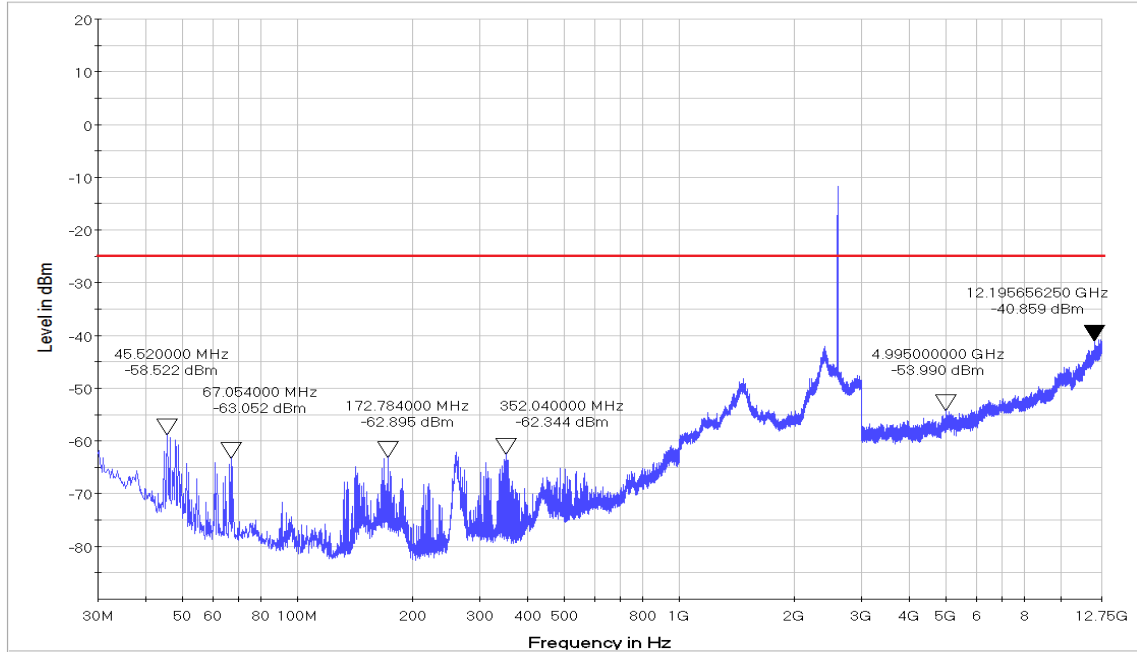


Radiated Emissions Above 1GHz Test setup

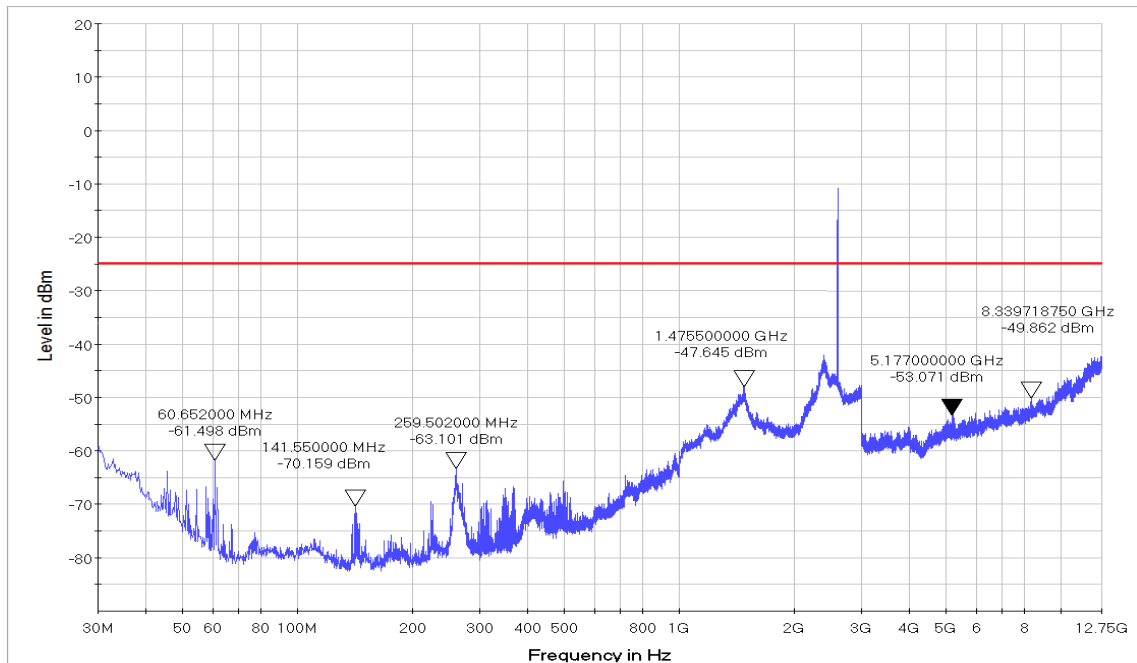


3.4 Test data

Horizontal



Vertical



Note: LTE B38

***** END *****