

## Technical Description

The Equipment Under Test (EUT) is a Robot Vacuum and Mop with Bluetooth and Wi-Fi function operating at 2402-2480 and 2412-2462MHz. The EUT is powered by DC 14.4V from battery. For more detailed features description, please refer to the user's manual.

### Channel List (BLE)

2402	2404	2406	2408	2410	2412	2414	2416	2418	2420
2422	2424	2426	2428	2430	2432	2434	2436	2438	2440
2442	2444	2446	2448	2450	2452	2454	2456	2458	2460
2462	2464	2466	2468	2470	2472	2474	2476	2478	2480

Modulation Type: GFSK

Bluetooth Version: 5.0 BLE (Single Mode)

Antenna Type: Monopole Antenna

Antenna Gain: 2dBi

The nominal conducted output power specified (BLE): 7dBm (Tolerance: +/- 1dB)

### Channel List (2.4G WIFI)

2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462
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Modulation Type: CCK, DQPSK, DBPSK, BPSK, QPSK, 16QAM, 64QAM

Antenna Type: Monopole Antenna

Antenna Gain: 1dBi

The nominal conducted output power specified (2.4G Wi-Fi): 19dBm (Tolerance: +/- 3dB)

The function of main IC is mentioned as below:

1. U17(model: TLSR8258F512ET32) acts as Bluetooth module
2. Y3 is a 24MHz crystal oscillator for U17(model: TLSR8258)
3. U12(model: MR813) is CPU dealing with all data
4. Y1 is a 24MHz crystal oscillator for U12(model: MR813)
5. U16(model: FG89FTSM13-W4) acts as WIFI module
6. U11(model: AXP305B) act as power supply
7. U20(model: GD32F303VCT6) act as MCU
8. Y5 is a 12MHz crystal oscillator for U20(model: GD32F303VCT6)
9. Y7 and Y10 are 32.768kHz crystal oscillators for U20(model: GD32F303VCT6)