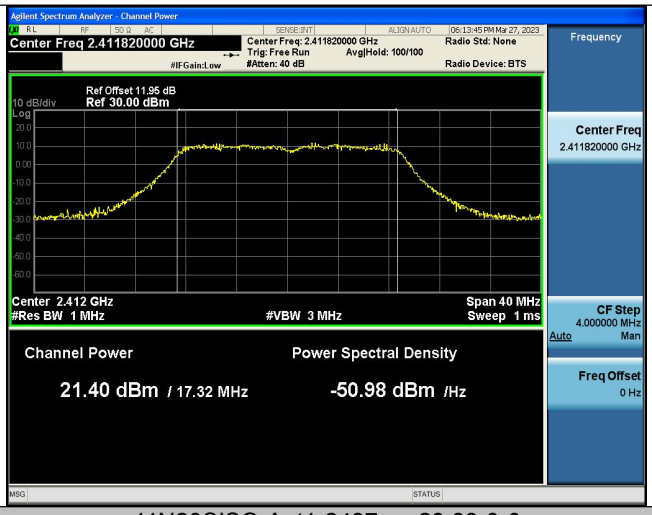

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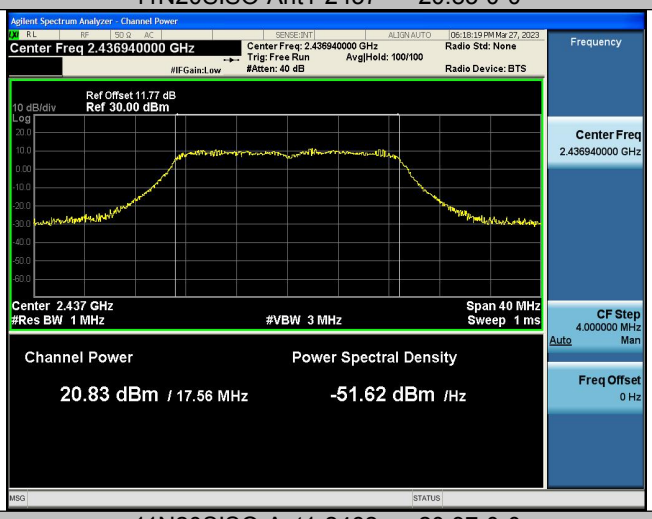

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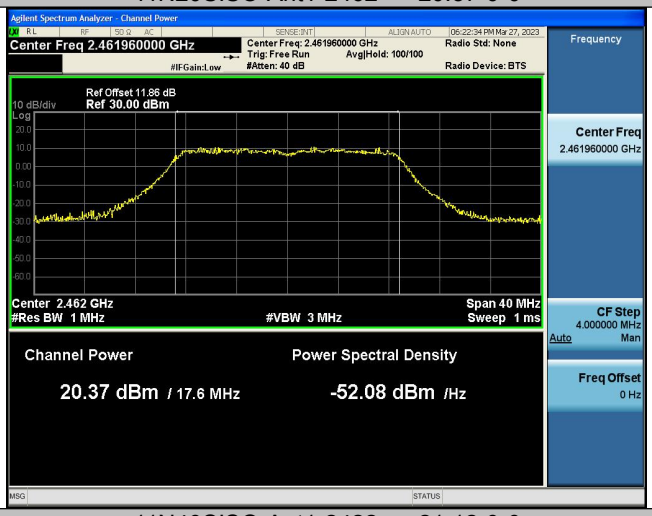

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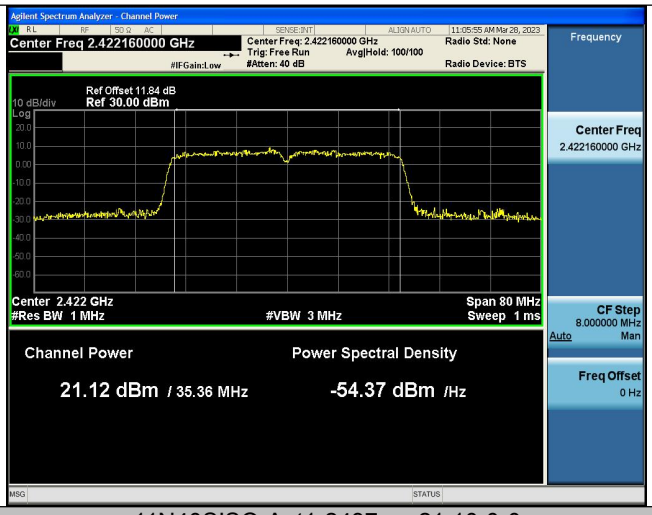

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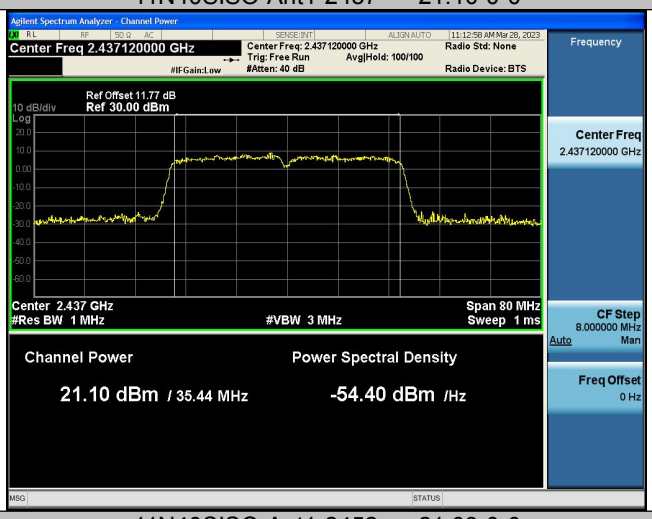

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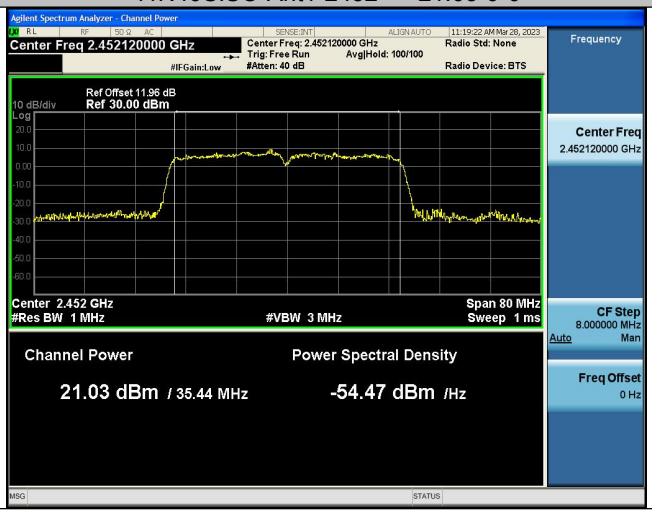


11 Power Spectral density

Test Requirement : FCC CFR47 Part 15 Section 15.247

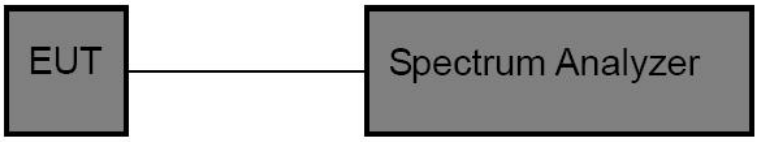
Test Method : ANSI C63.10:2013

Test Limit : Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

11.1Test Procedure

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below:
   Center frequency=DTS channel center frequency
   Span = 1.5 times the DTS bandwidth
   RBW = 3KHz, VBW = 10KHz
   Sweep time = auto couple
   Detector = peak
   Trace mode =max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW(no less than 3KHz) and repeat.

11.2Test Setup



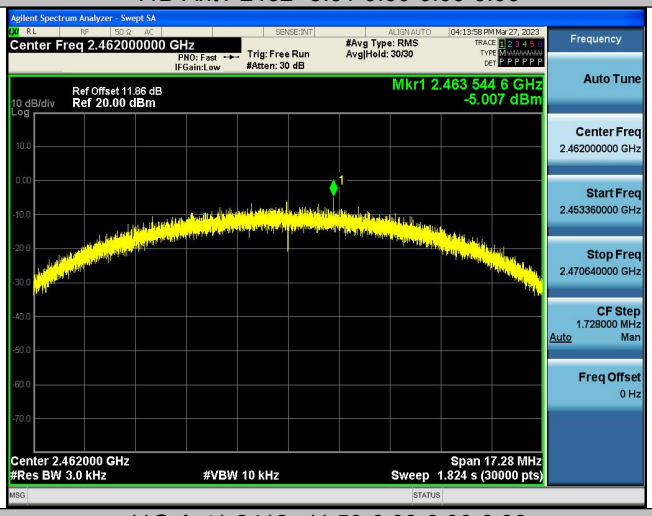
11.3Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.57	≤8.00	PASS
11B	Ant1	2437	-6.01	≤8.00	PASS
11B	Ant1	2462	-5.01	≤8.00	PASS
11G	Ant1	2412	-11.59	≤8.00	PASS
11G	Ant1	2437	-11	≤8.00	PASS
11G	Ant1	2462	-12.07	≤8.00	PASS
11N20SISO	Ant1	2412	-12.37	≤8.00	PASS
11N20SISO	Ant1	2437	-12.81	≤8.00	PASS
11N20SISO	Ant1	2462	-13.4	≤8.00	PASS
11N40SISO	Ant1	2422	-13.04	≤8.00	PASS
11N40SISO	Ant1	2437	-12.83	≤8.00	PASS
11N40SISO	Ant1	2452	-12.46	≤8.00	PASS

11B-Ant1-2412--5.57-0.00-0.00-0.00

11B-Ant1-2437--6.01-0.00-0.00-0.00

11B-Ant1-2462--5.01-0.00-0.00-0.00



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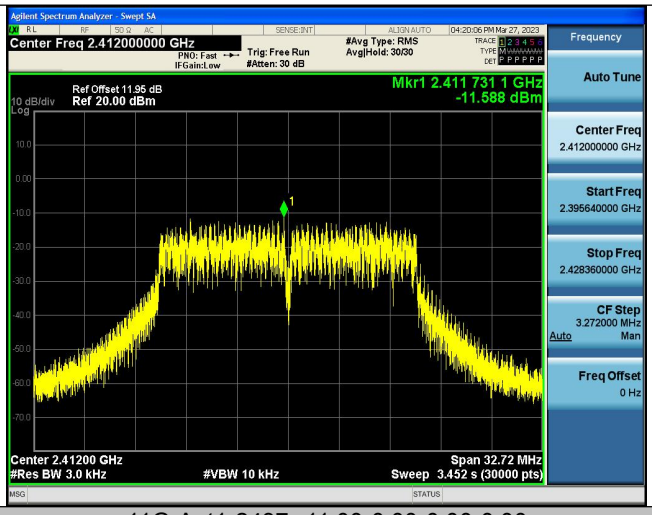

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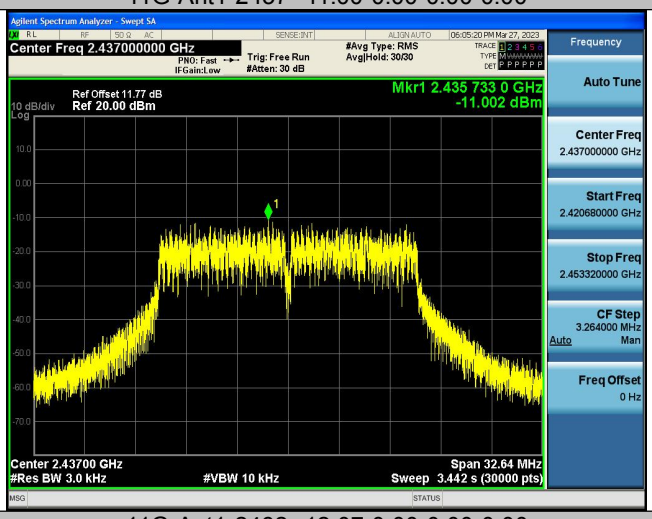

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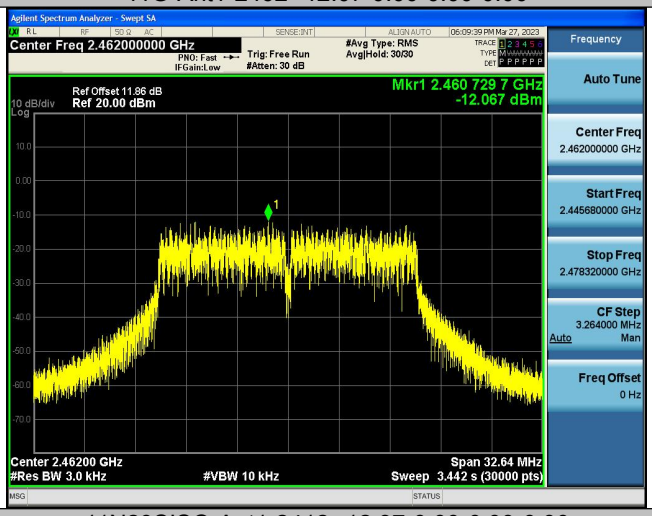

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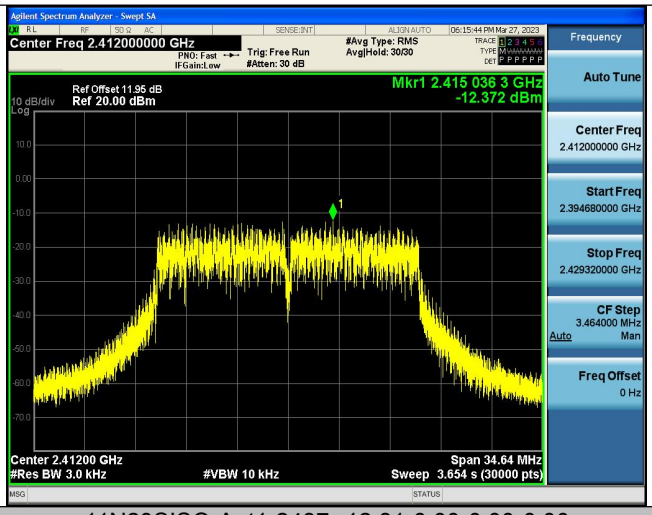

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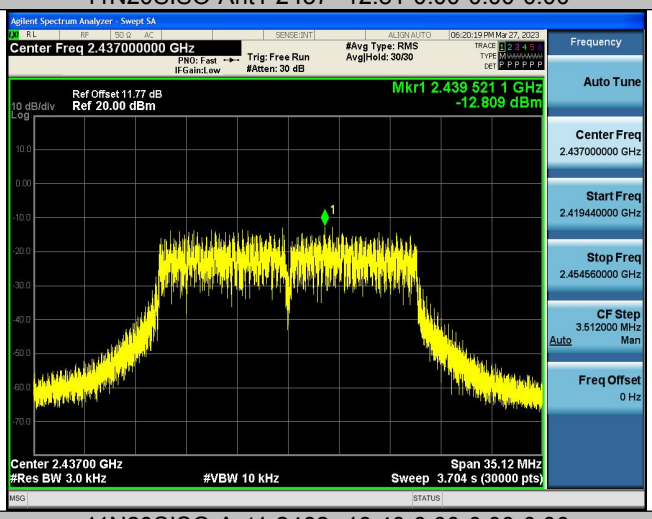

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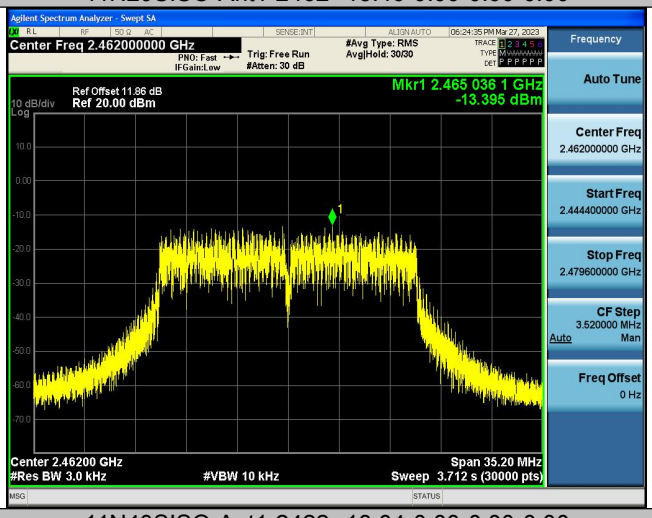

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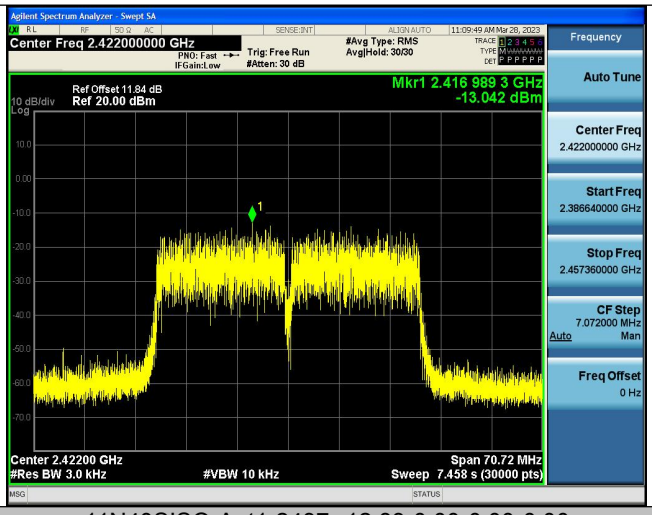

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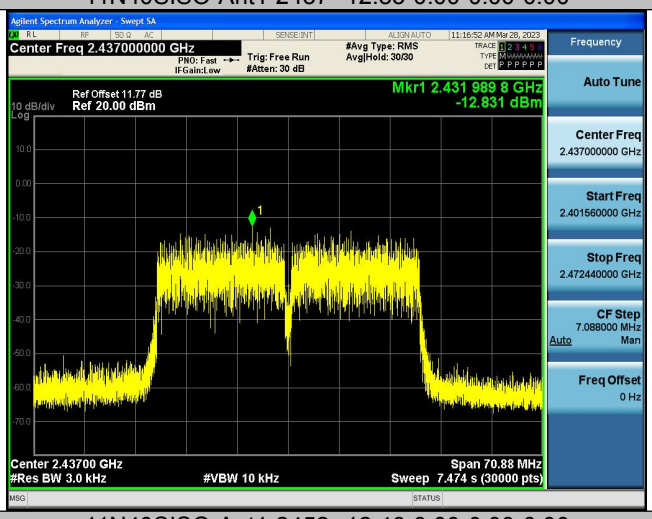

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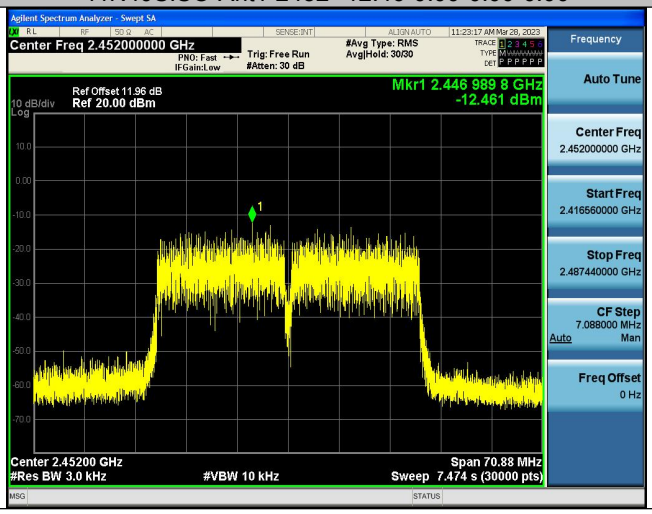


12 Antenna Application

12.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2 Result

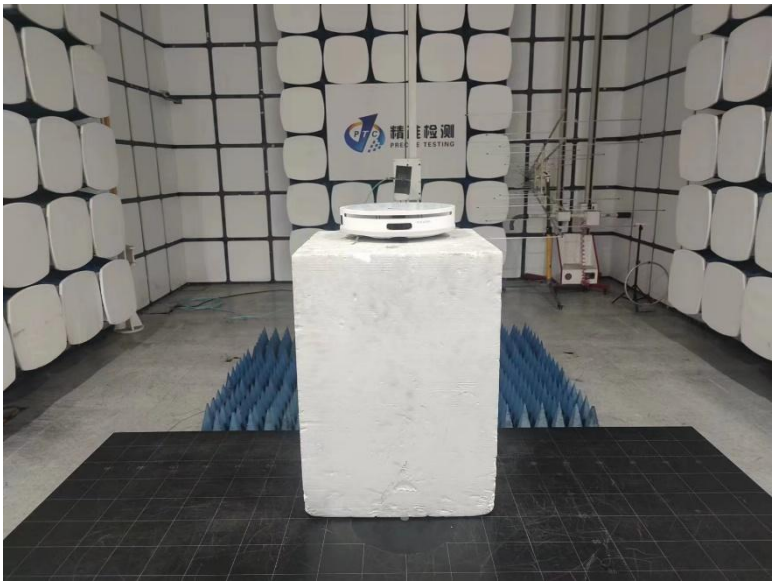
The EUT'S antenna, permanent attached antenna,is Integral Antenna. The antenna's gain is 2.44 dBi and meets the requirement.

13 Test Setup

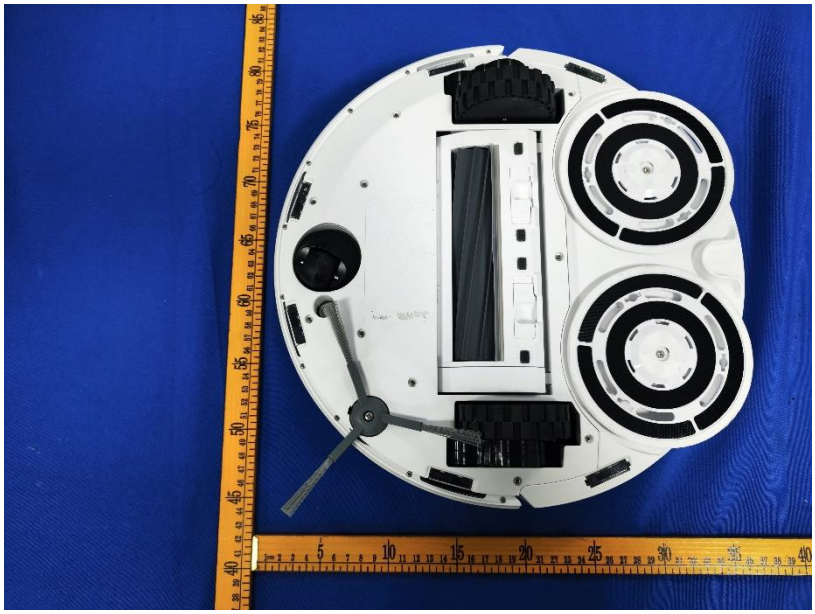
Conducted Emissions

Radiated Spurious Emissions
From 30MHz-1000MHz

Test frequency from Above 1GHz



14 EUT PHOTOS

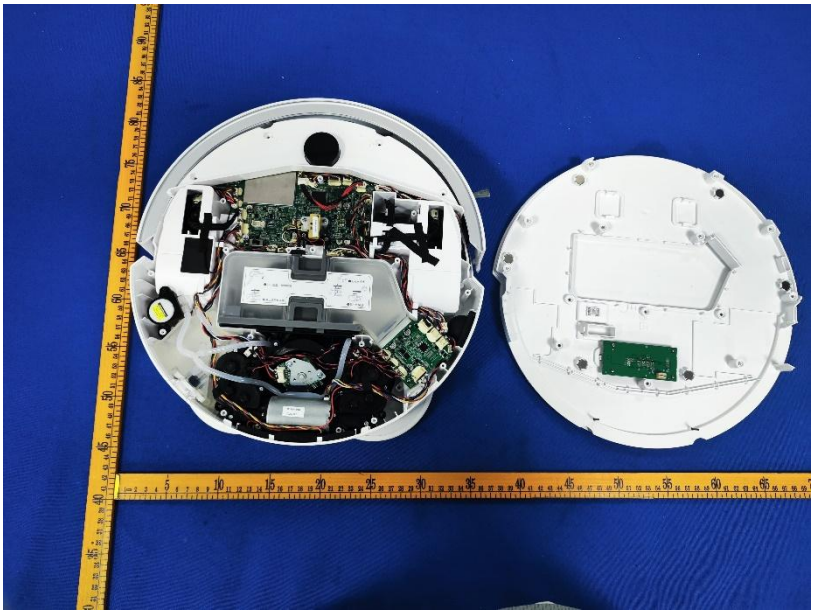


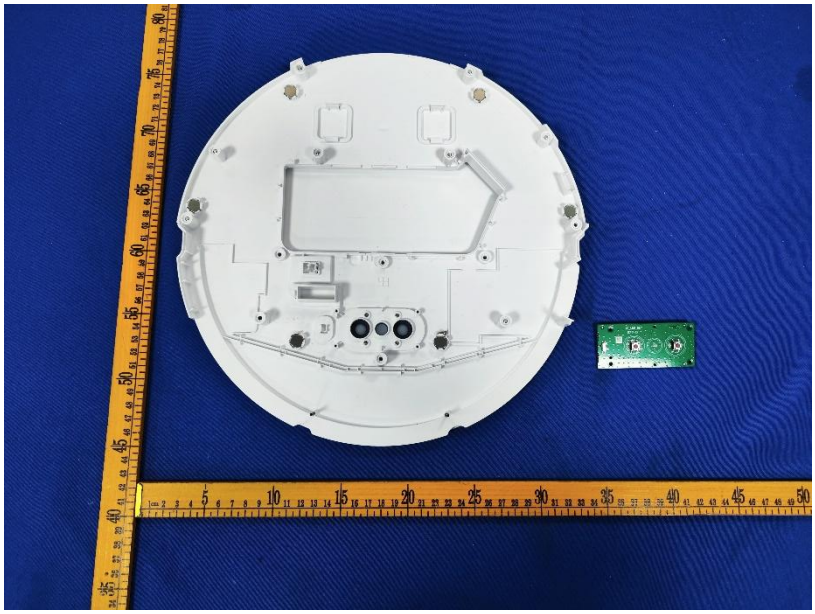
LINKBEY

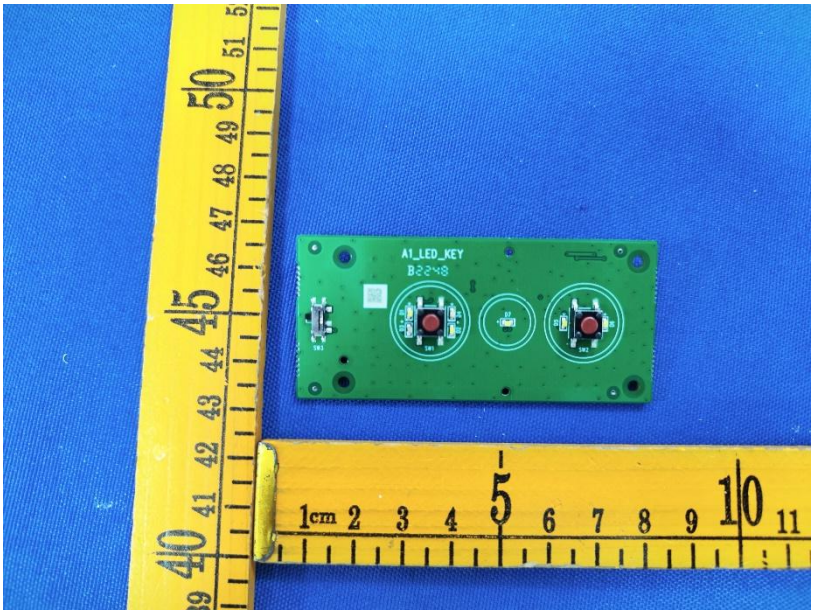
LINKBEY

LINKBEY
3D AI ACTION

LINKBEY



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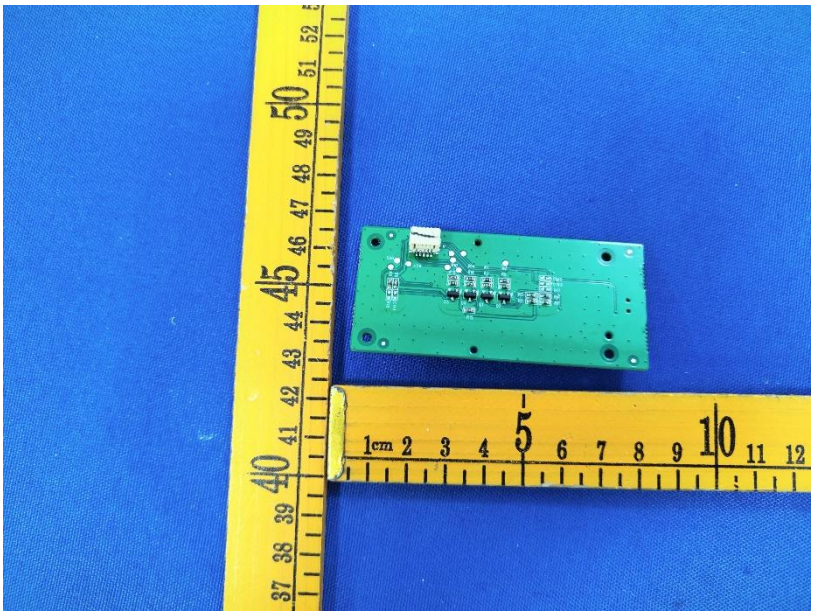

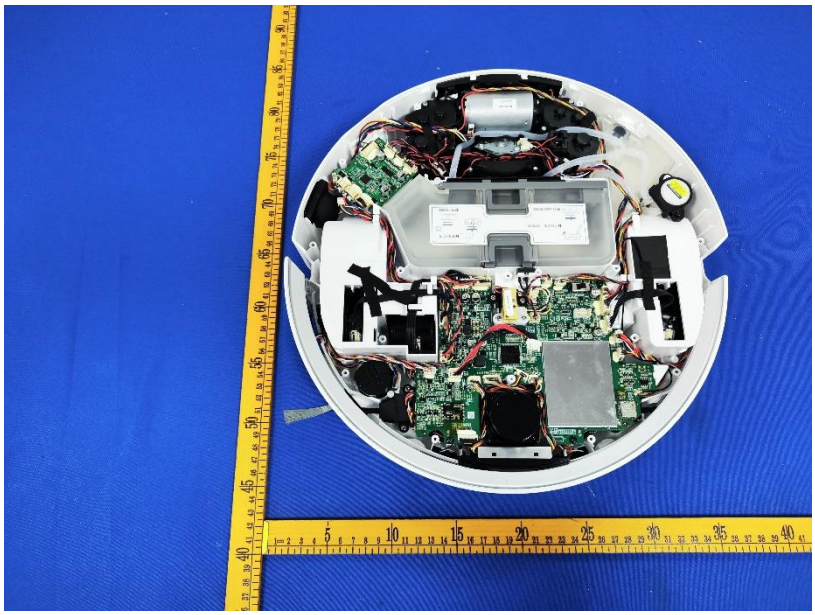

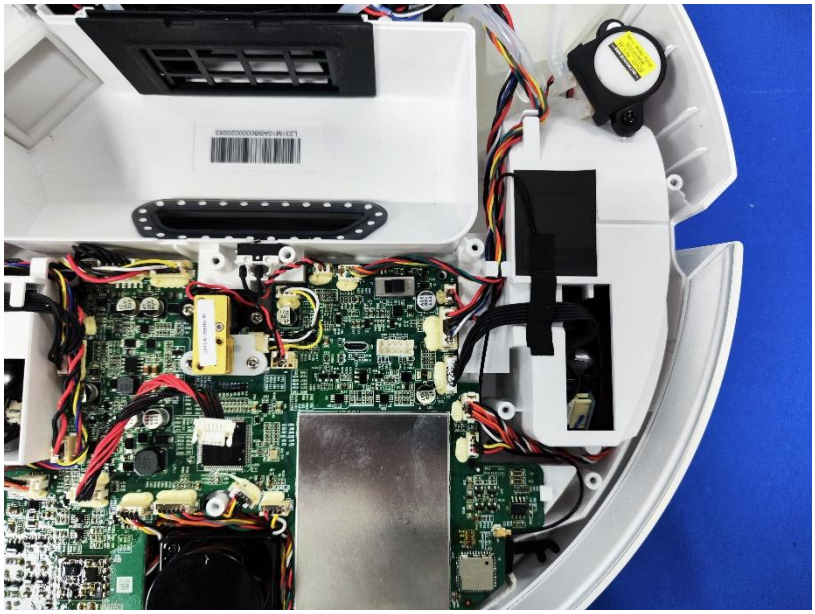

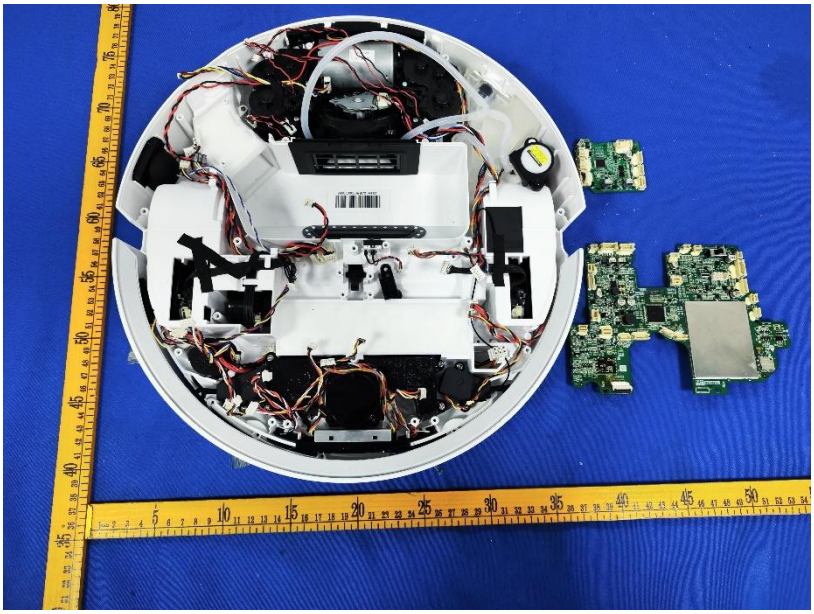

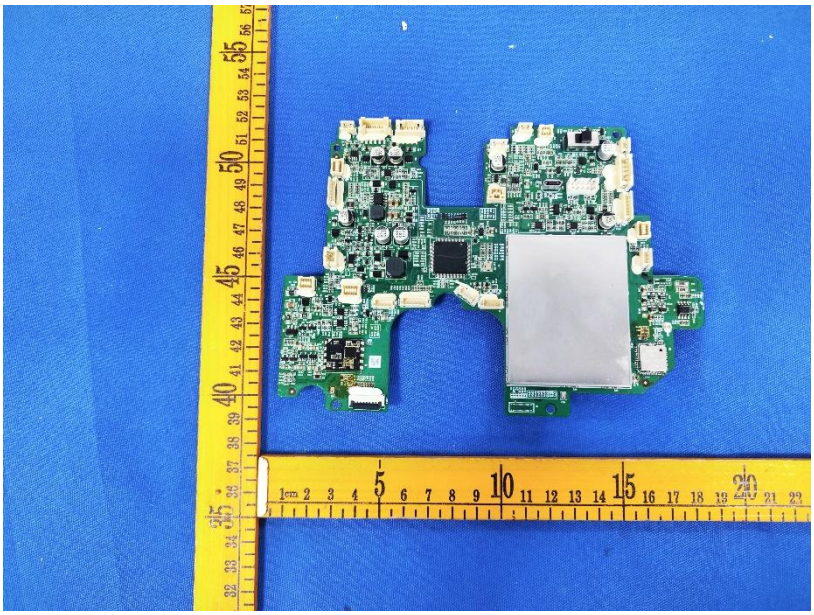

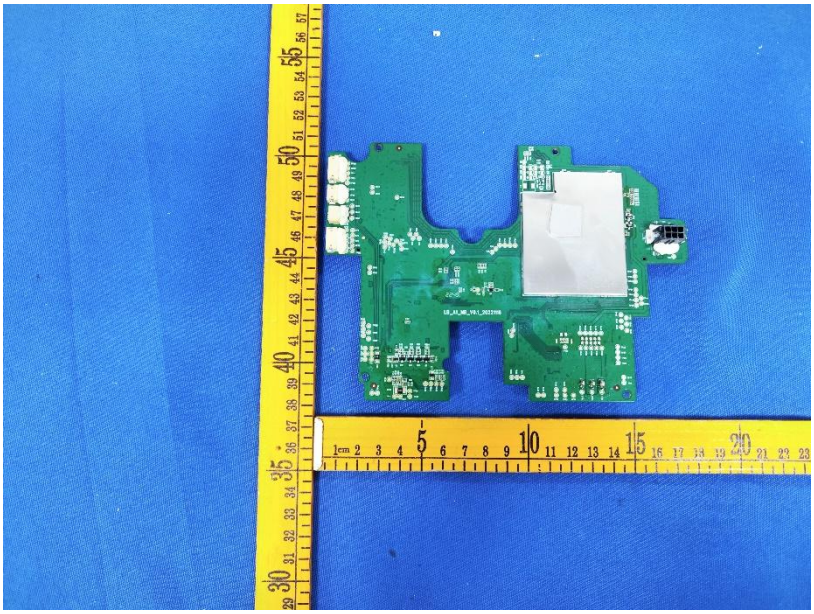

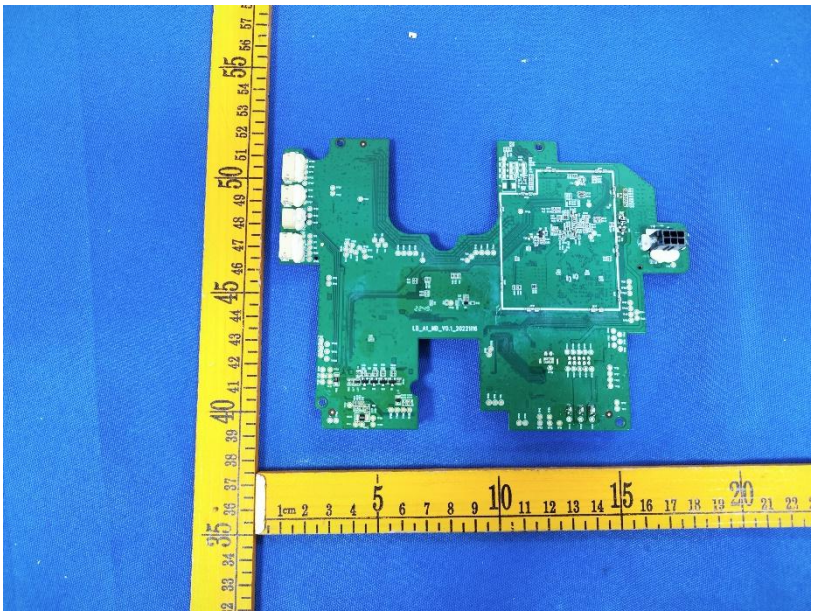

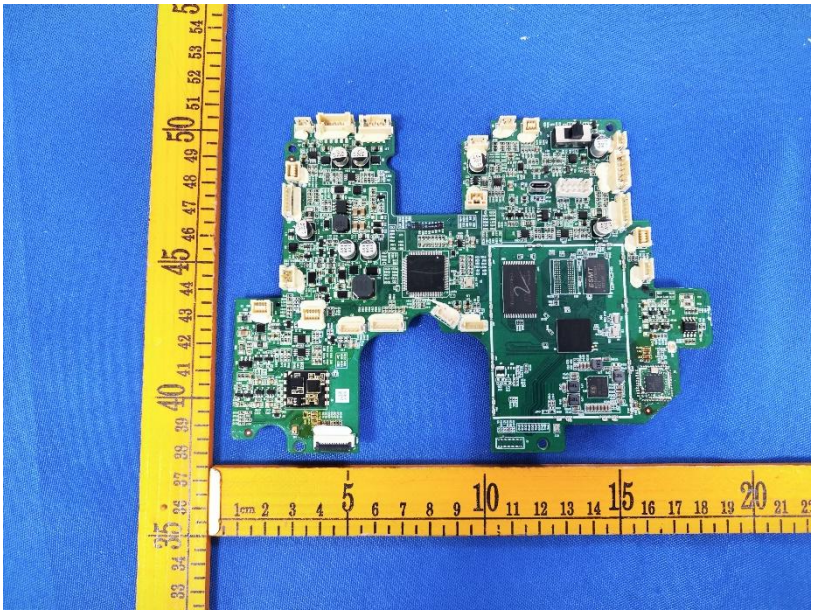

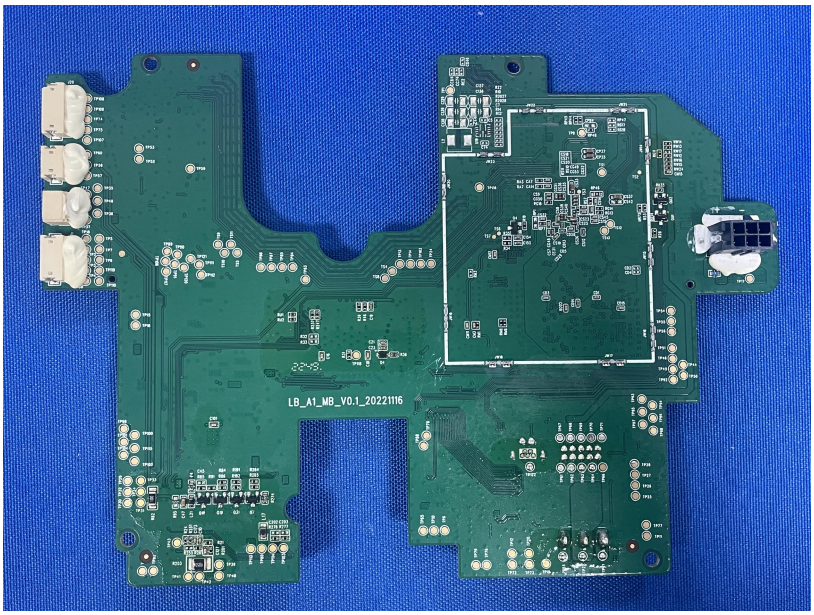
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