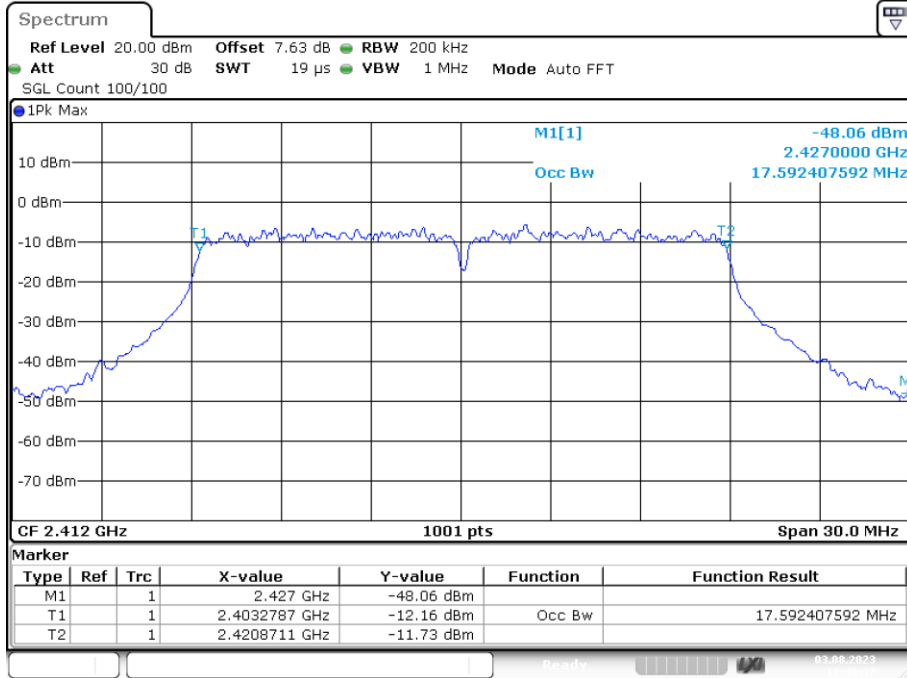
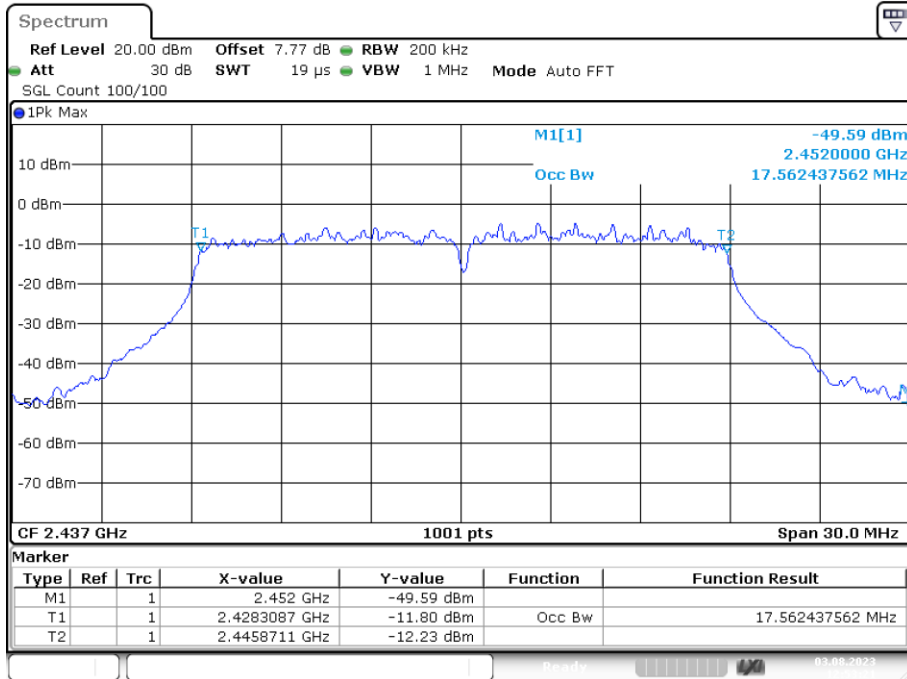


OBW NVNT n20 2412MHz Ant1



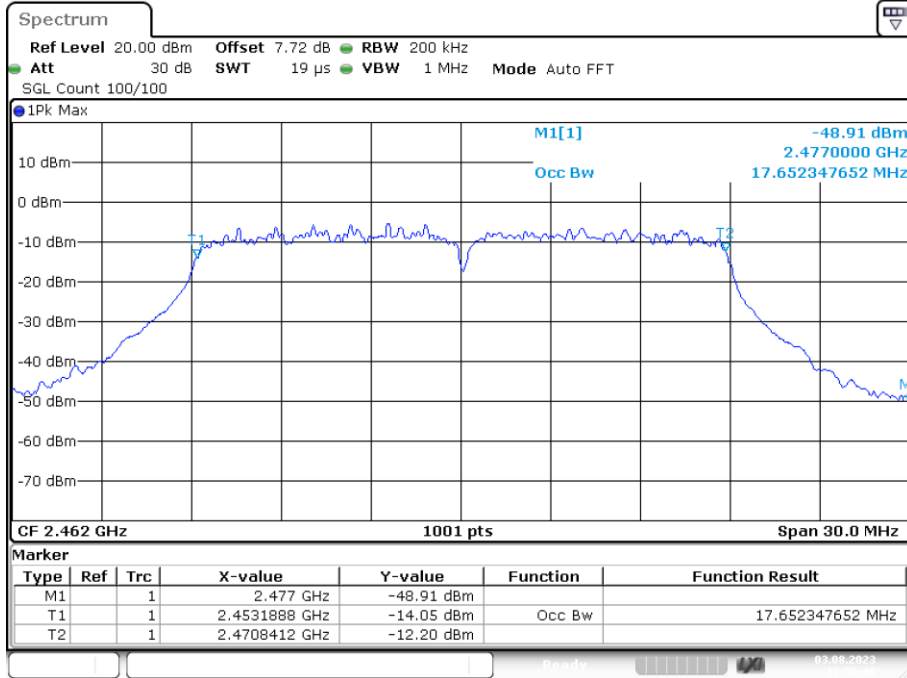
Date: 3.AUG.2023 12:49:37

OBW NVNT n20 2437MHz Ant1



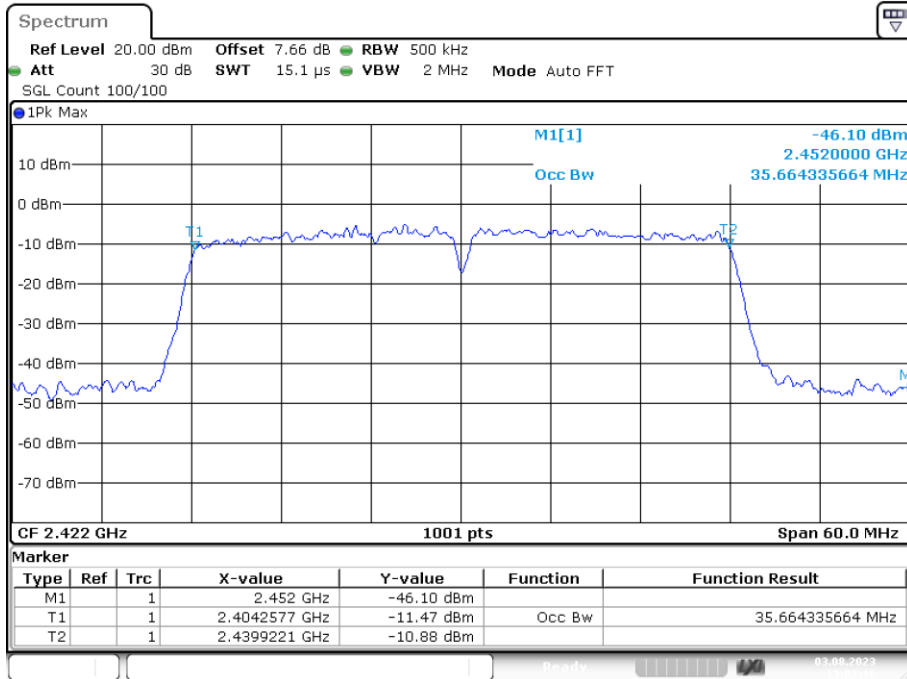
Date: 3.AUG.2023 12:53:20

OBW NVNT n20 2462MHz Ant1



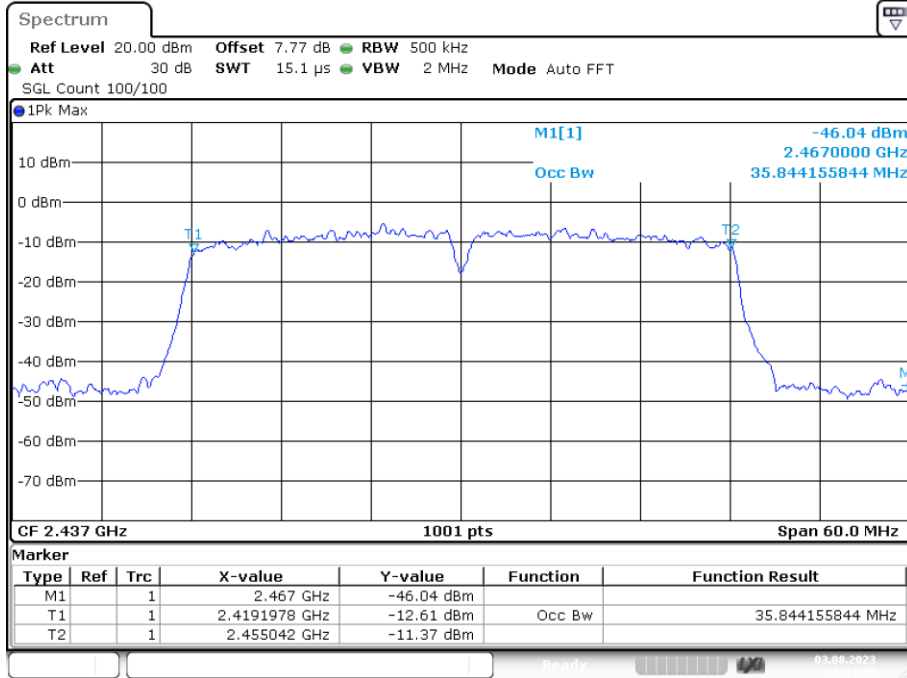
Date: 3.AUG.2023 12:56:46

OBW NVNT n40 2422MHz Ant1

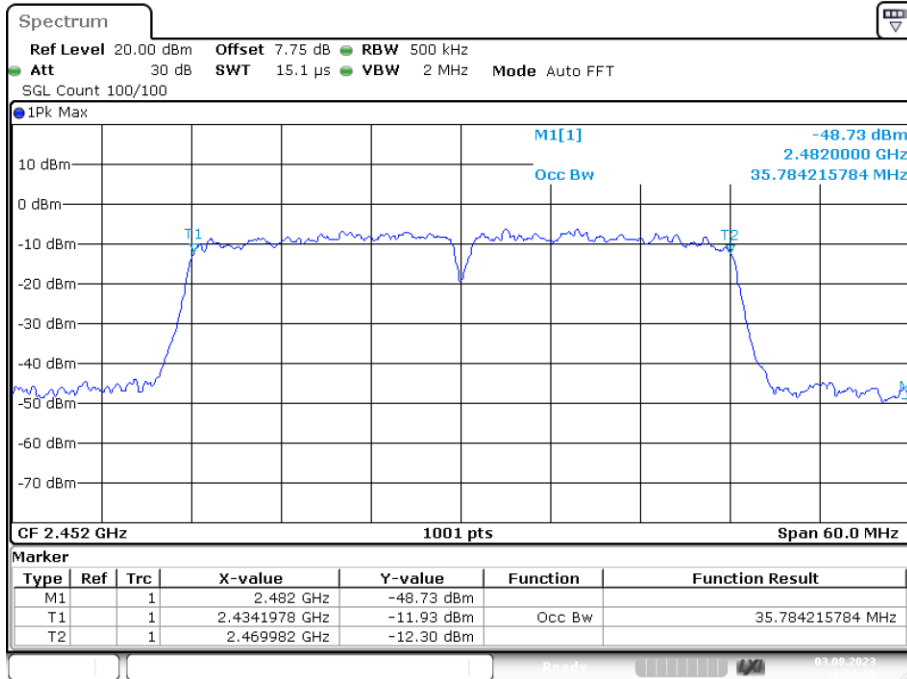


Date: 3.AUG.2023 13:02:16

OBW NVNT n40 2437MHz Ant1



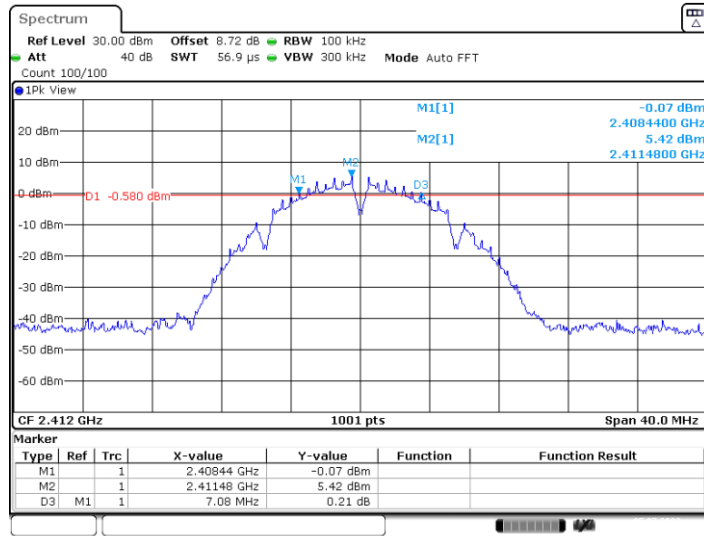
OBW NVNT n40 2452MHz Ant1



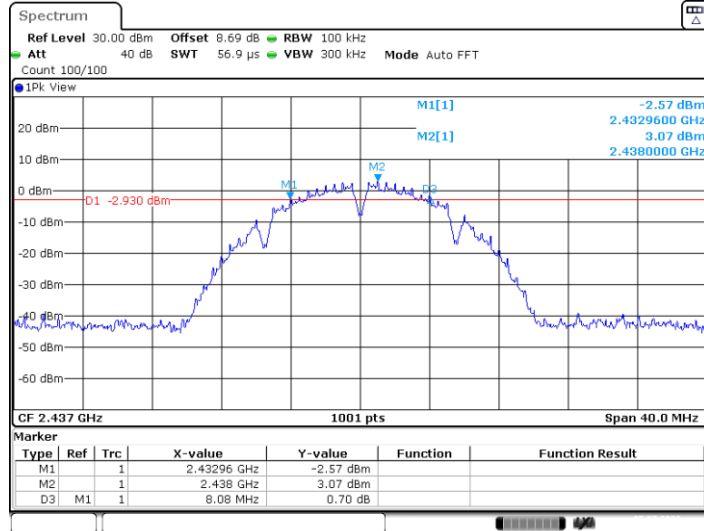
**-6dB Occupied Channel Bandwidth**

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.08	2408.44	2415.52	0.5	PASS
		2437	8.08	2432.96	2441.04	0.5	PASS
		2462	8.56	2457.48	2466.04	0.5	PASS
11G	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
		2437	16.32	2428.84	2445.16	0.5	PASS
		2462	13.88	2455.68	2469.56	0.5	PASS
11N20	Ant1	2412	16.84	2403.60	2420.44	0.5	PASS
		2437	15.04	2429.48	2444.52	0.5	PASS
		2462	15.08	2454.44	2469.52	0.5	PASS
11N40	Ant1	2422	34.48	2405.68	2440.16	0.5	PASS
		2437	35.12	2419.40	2454.52	0.5	PASS
		2452	32.80	2436.96	2469.76	0.5	PASS

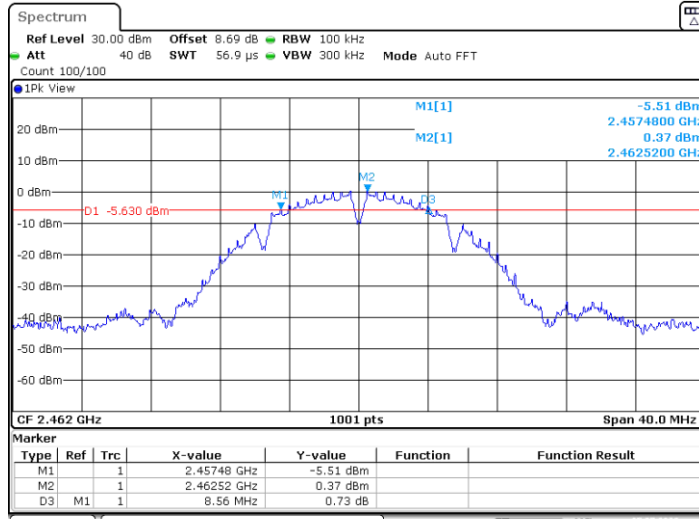
11B\_Ant1\_2412



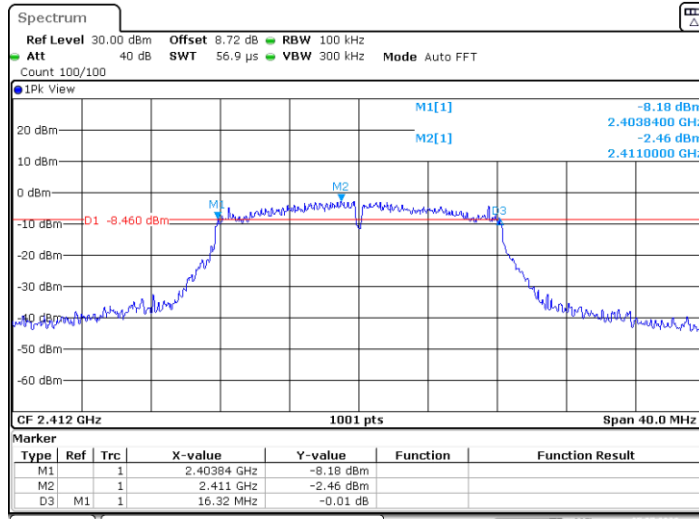
11B\_Ant1\_2437



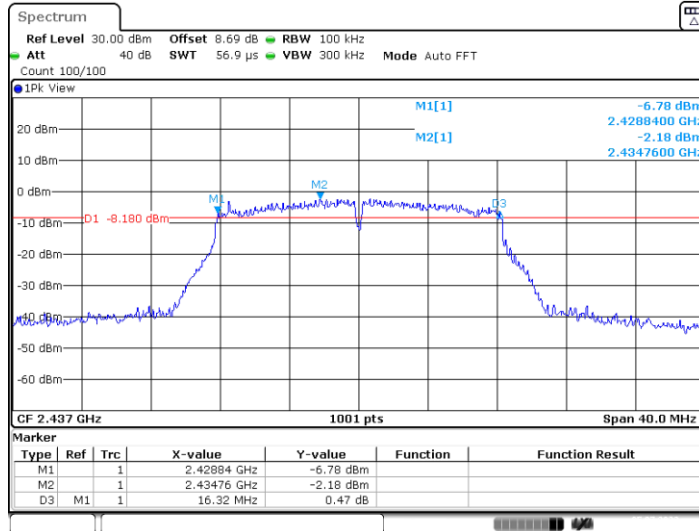
11B\_Ant1\_2462



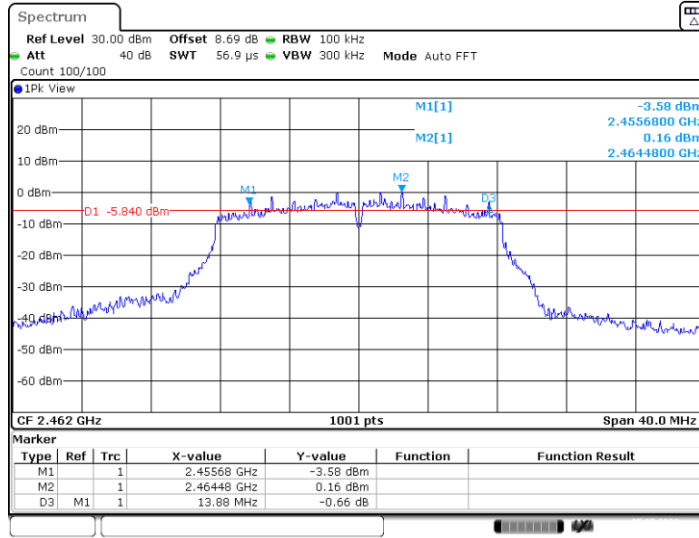
11G\_Ant1\_2412



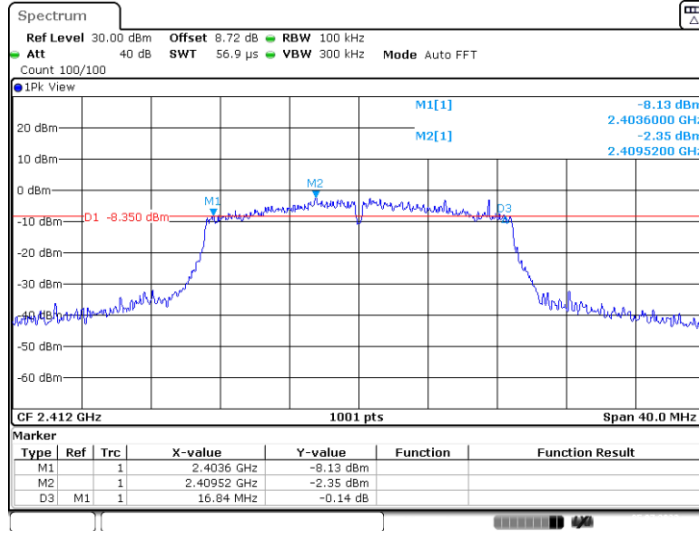
11G\_Ant1\_2437



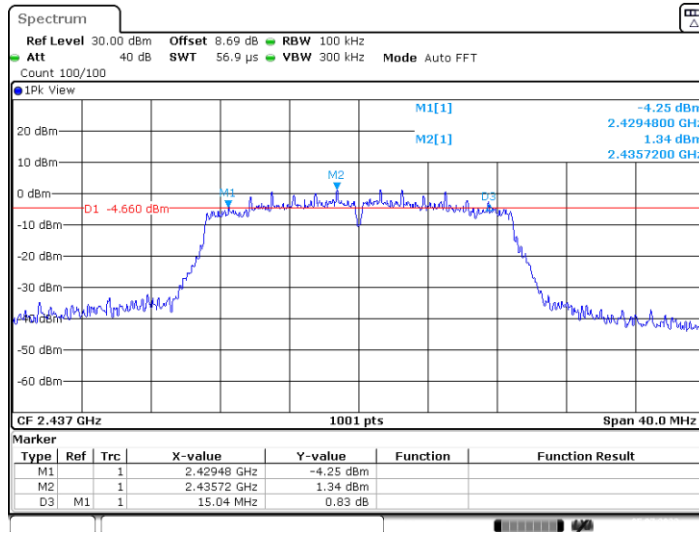
11G\_Ant1\_2462



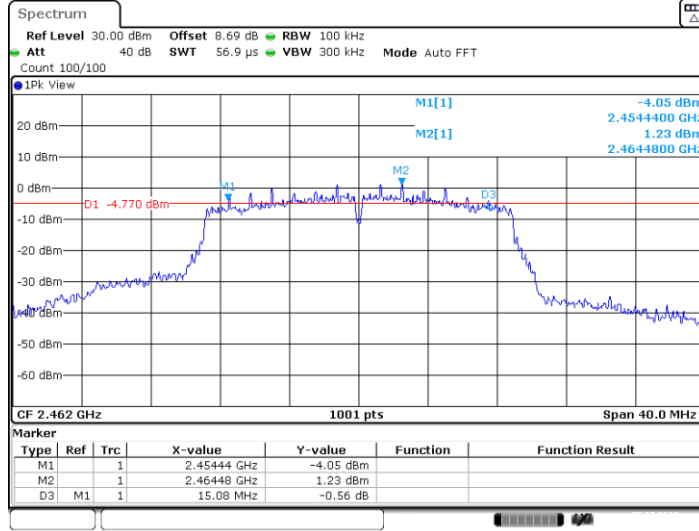
11N20SISO\_Ant1\_2412



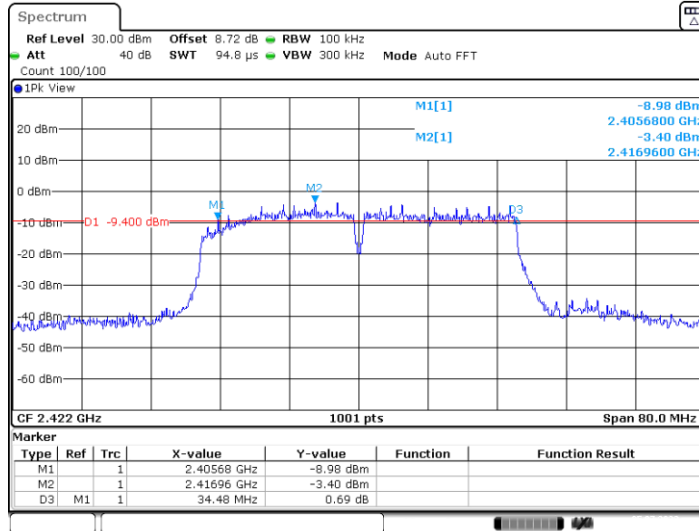
11N20SISO\_Ant1\_2437



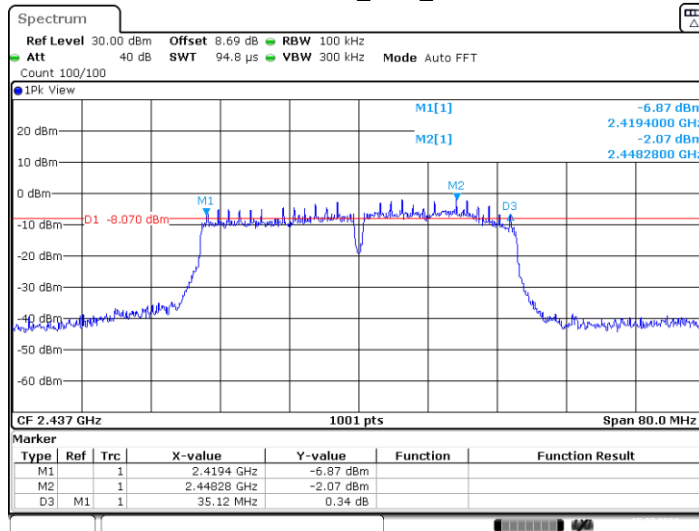
11N20SISO\_Ant1\_2462



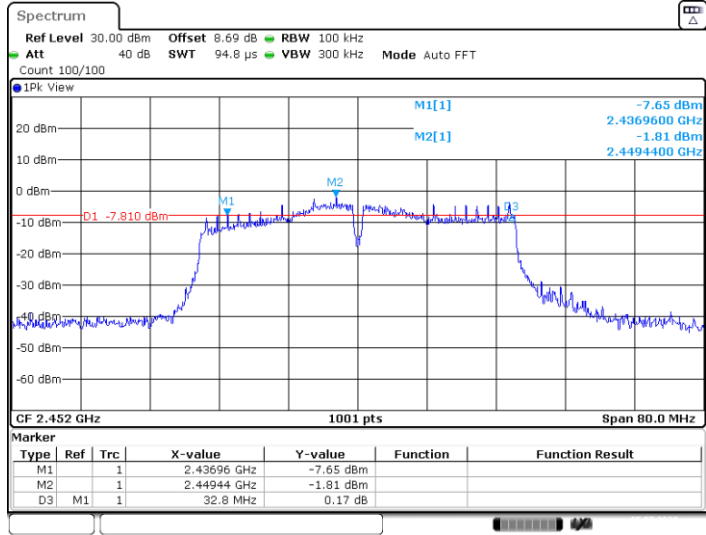
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452





## **8. BAND EDGE CHECK**

### **8.1. Test limits**

Please refer RSS-GEN & FCC PART 15: 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits and RSS-GEN limits.

### **8.2. Test Procedure**

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 10Hz, RMS detector for AV value.

### **8.3. Test Setup**

Same as 5.2.2.

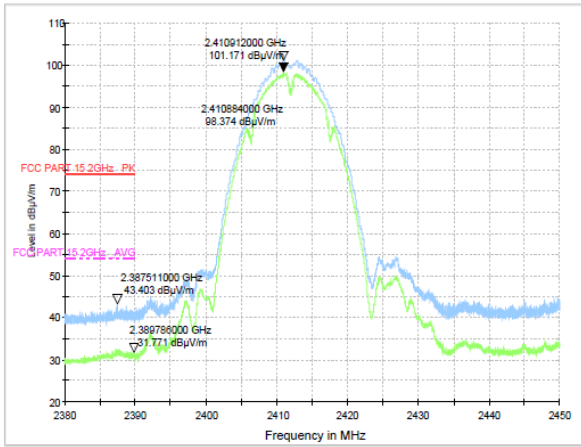
### **8.4. Test Results**

PASS.

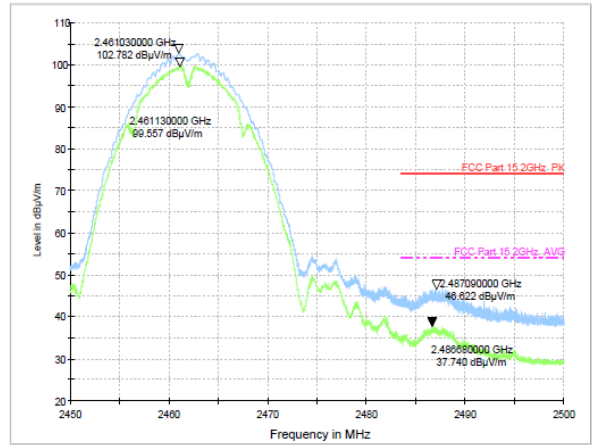
Detailed information please see the following page.

Radiation testing

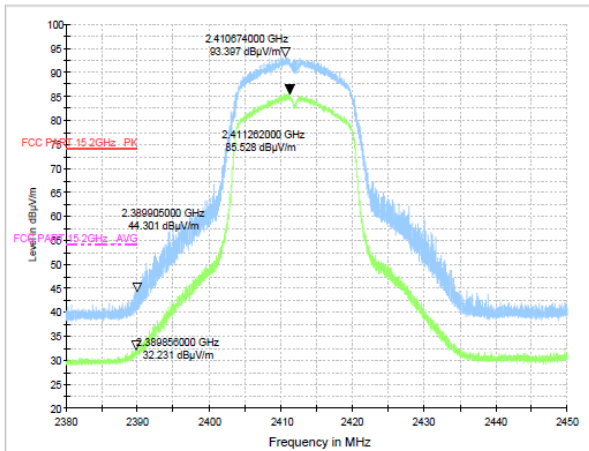
Test Mode: IEEE 802.11b-Low



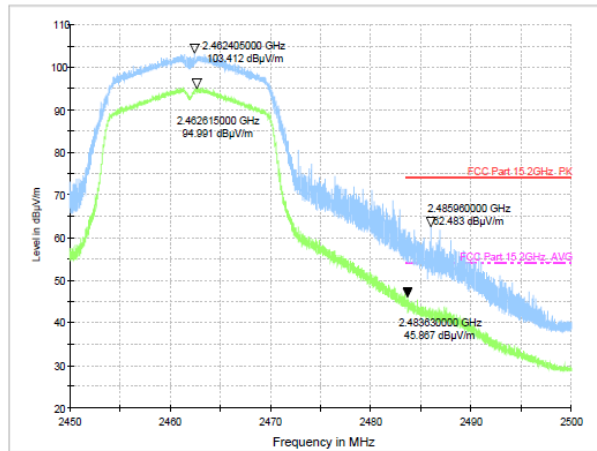
Test Mode: IEEE 802.11b-High



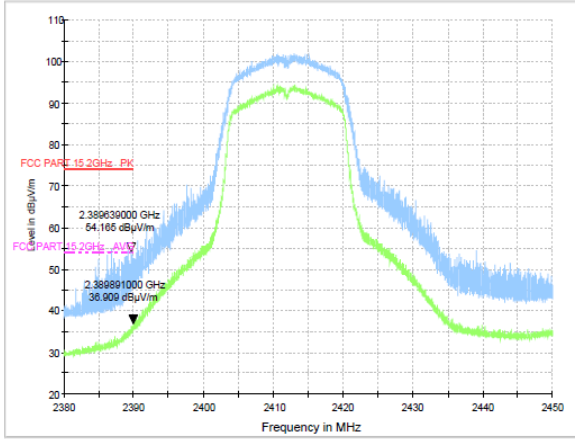
Test Mode: IEEE 802.11g-Low



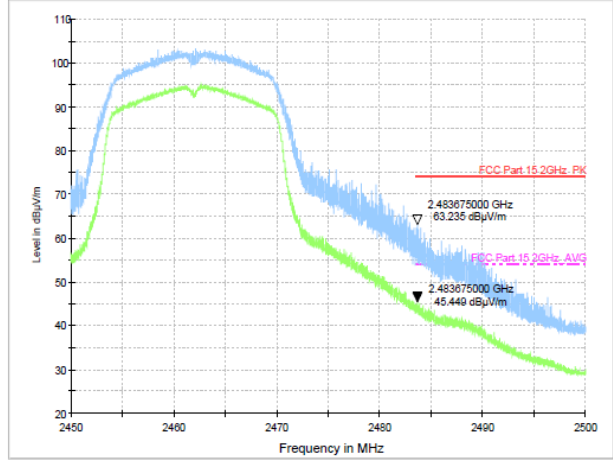
Test Mode: IEEE 802.11g-High



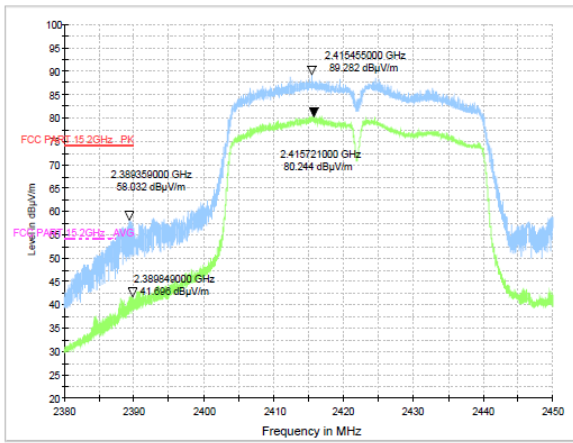
Test Mode: IEEE 802.11n20-Low



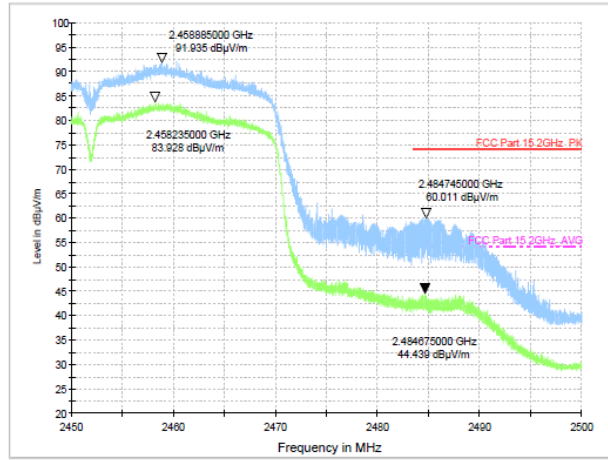
Test Mode: IEEE 802.11n20-High



Test Mode: IEEE 802.11n40-Low

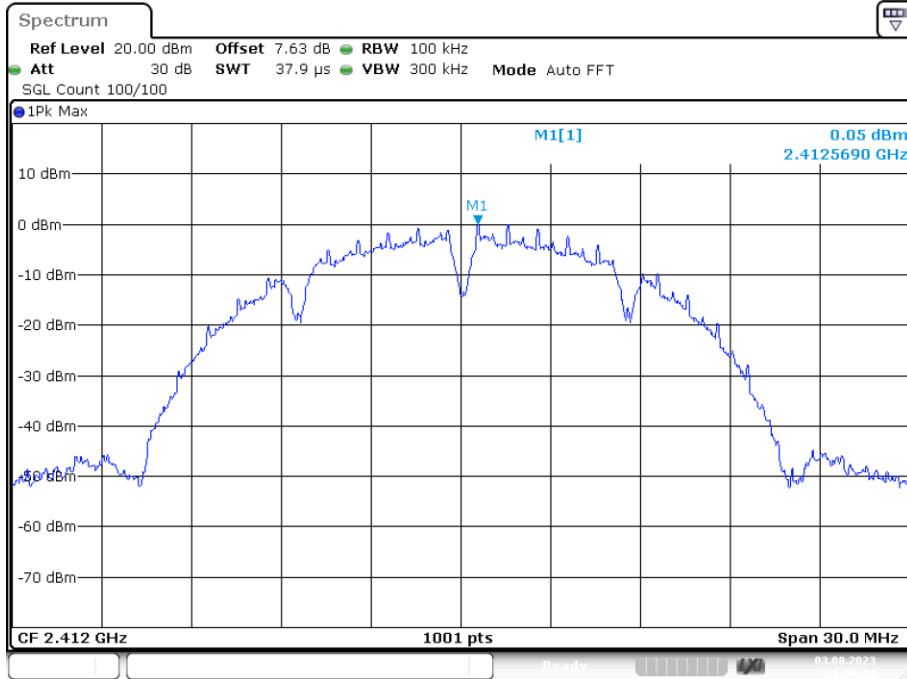


Test Mode: IEEE 802.11n40-High

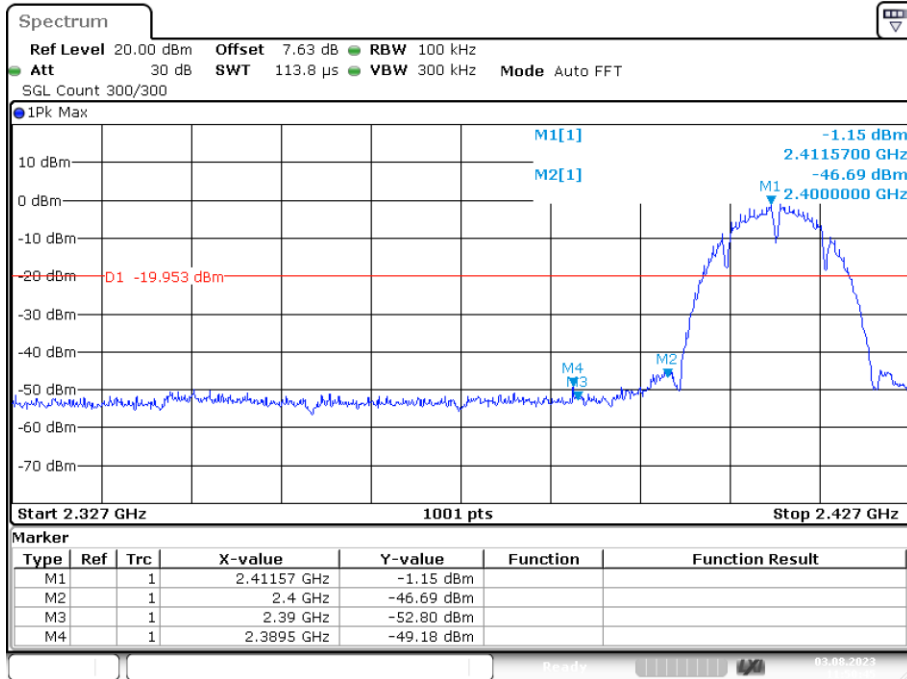


Conduction method testing

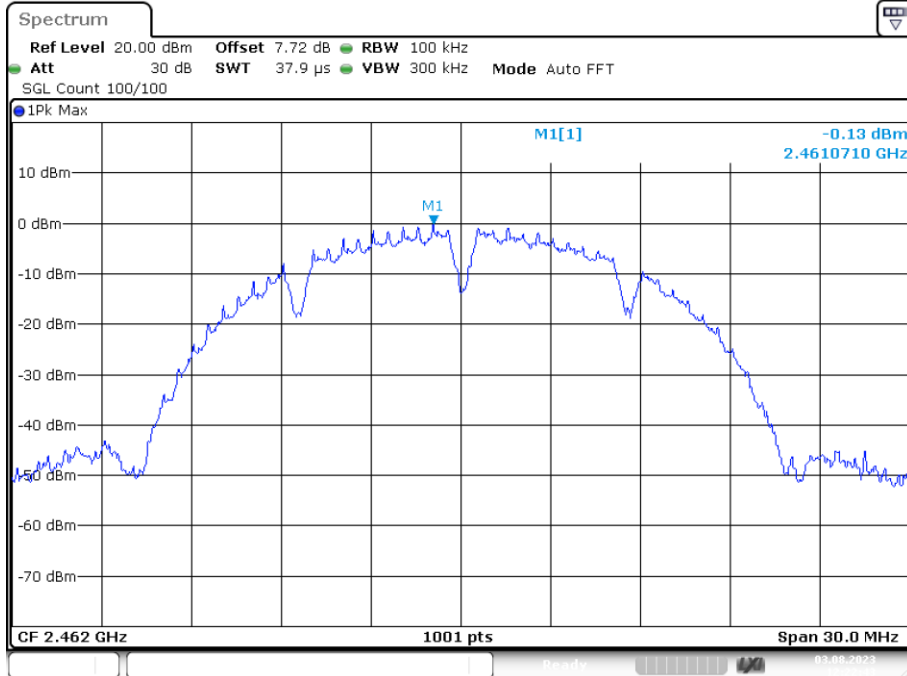
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

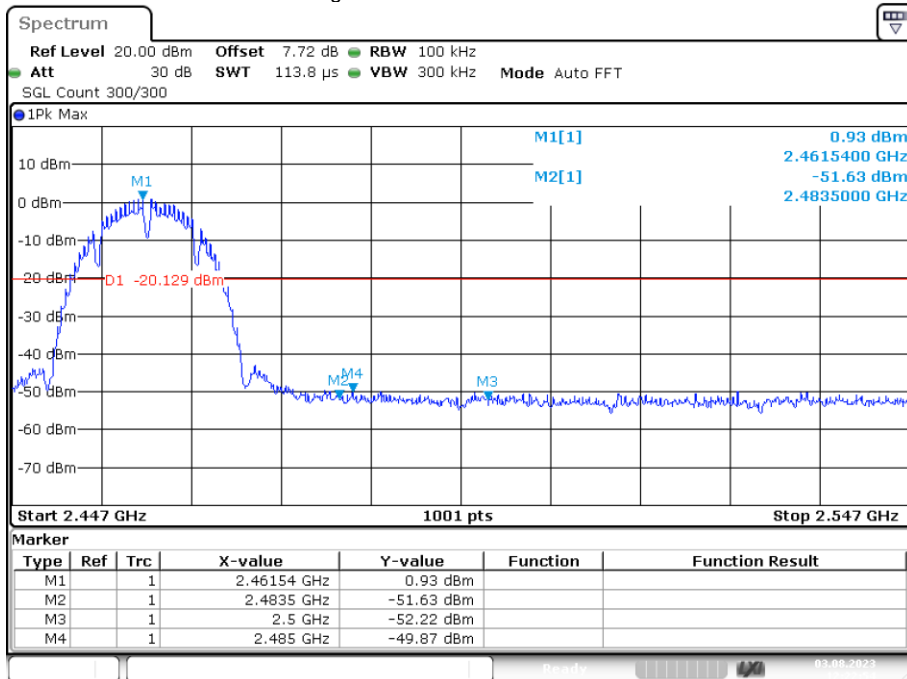


Band Edge NVNT b 2462MHz Ant1 Ref



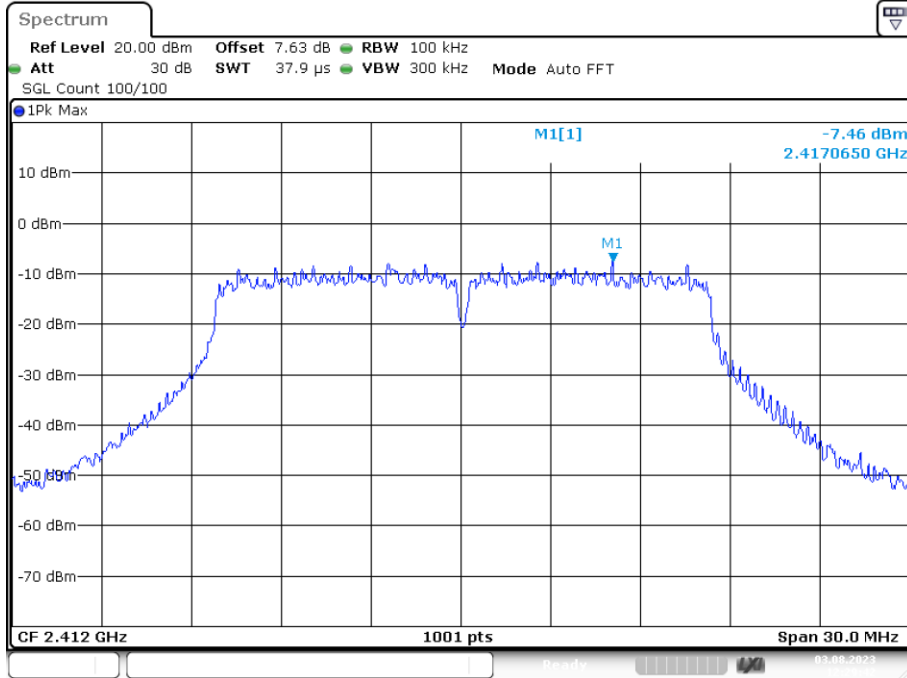
Date: 3.AUG.2023 12:22:42

Band Edge NVNT b 2462MHz Ant1 Emission



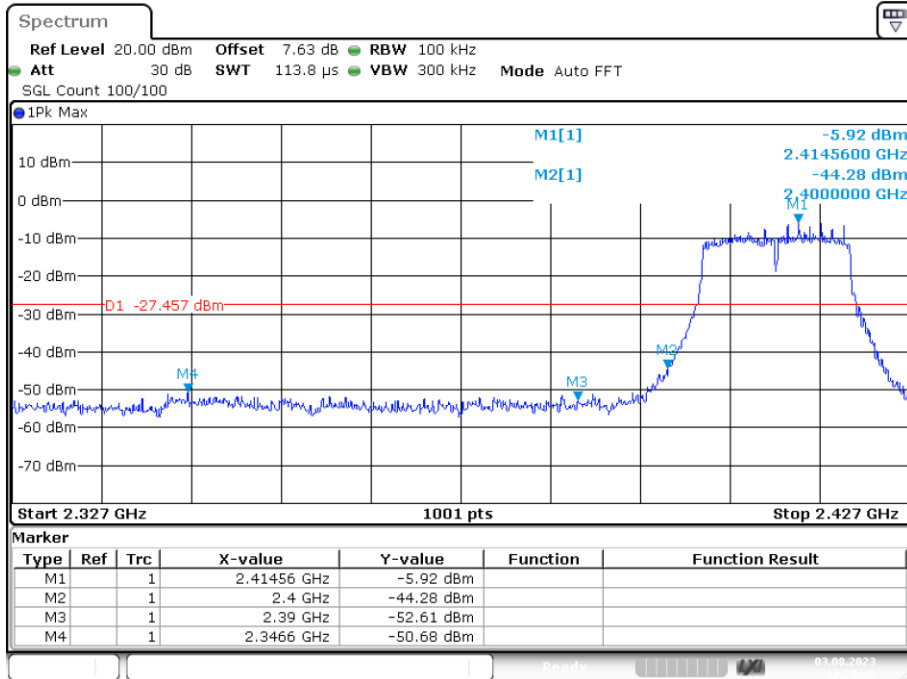
Date: 3.AUG.2023 12:22:54

Band Edge NVNT g 2412MHz Ant1 Ref



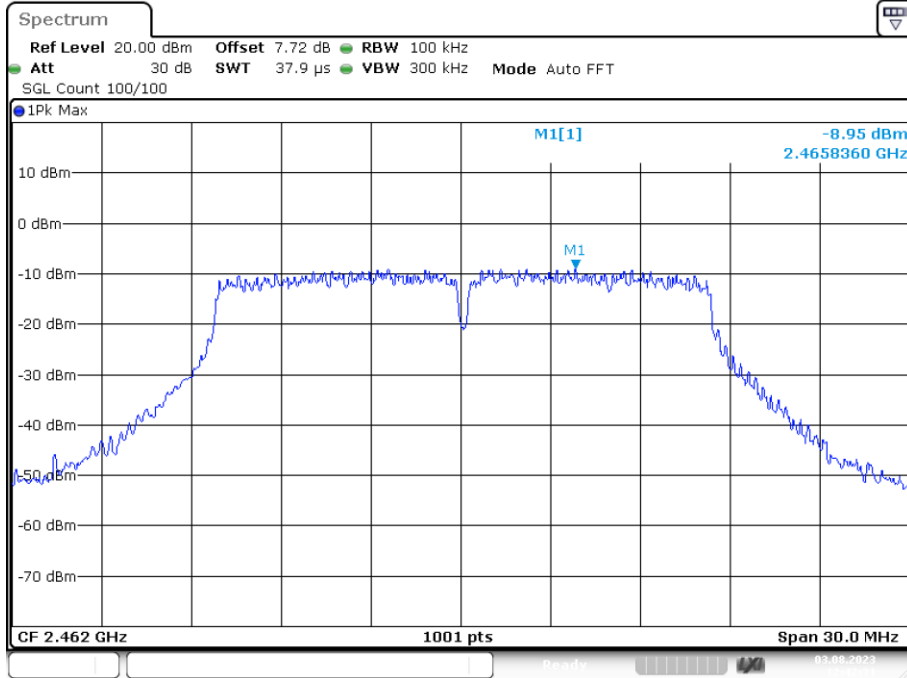
Date: 3.AUG.2023 12:29:41

Band Edge NVNT g 2412MHz Ant1 Emission

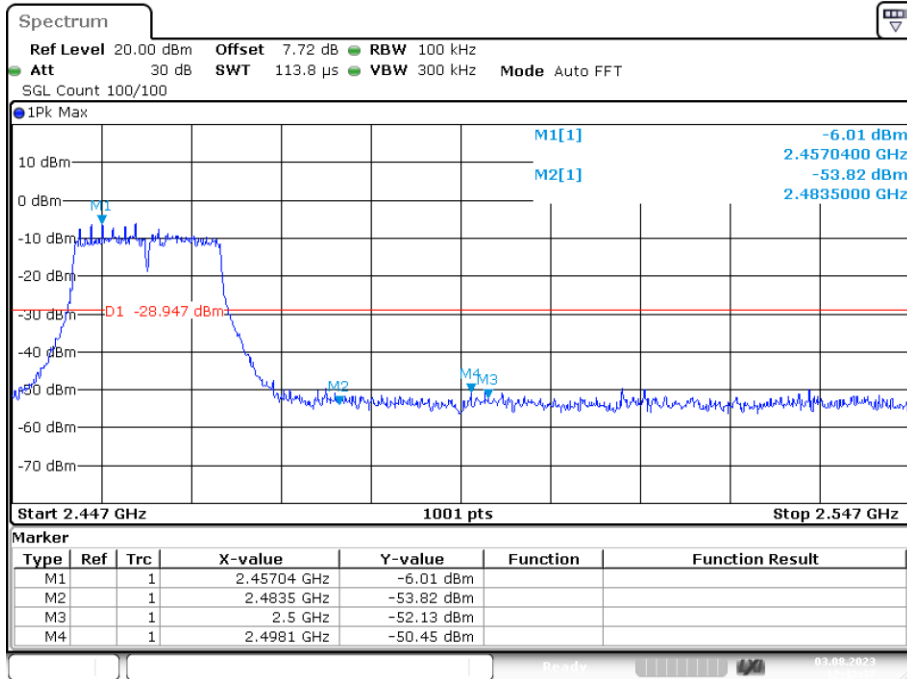


Date: 3.AUG.2023 12:29:47

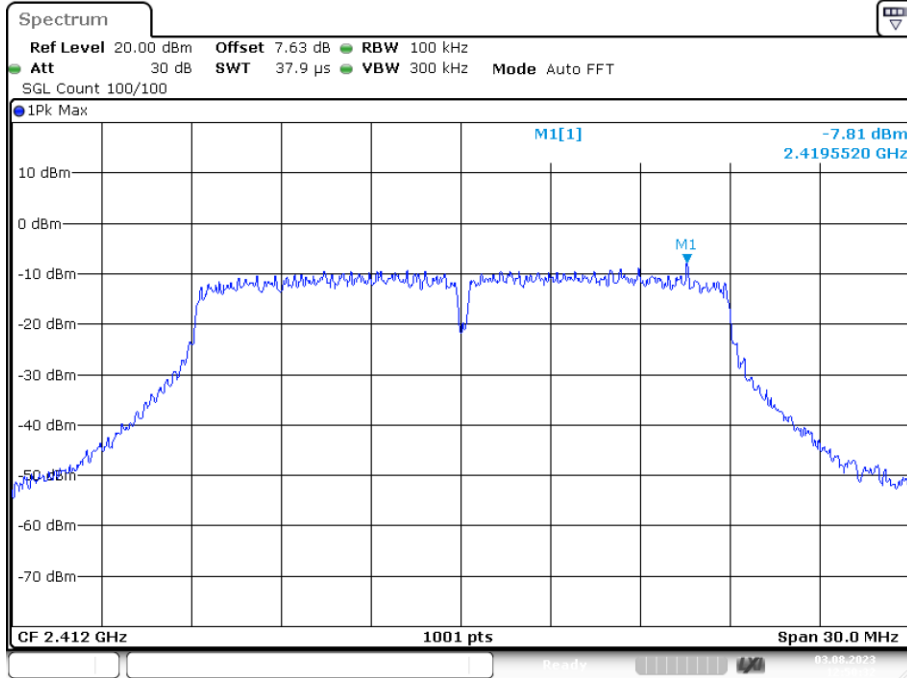
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

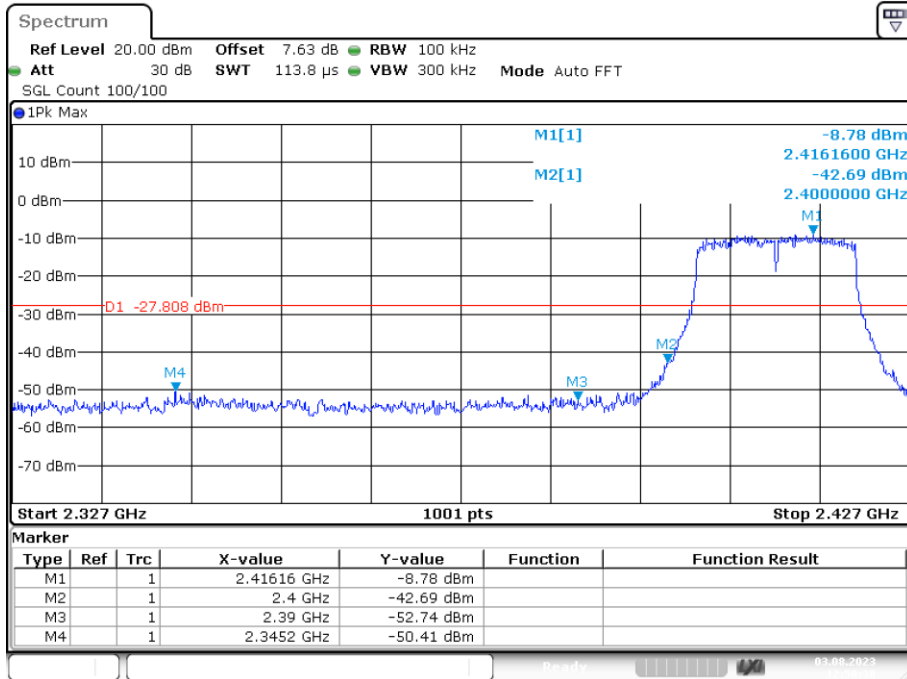


Band Edge NVNT n20 2412MHz Ant1 Ref



Date: 3.AUG.2023 12:50:32

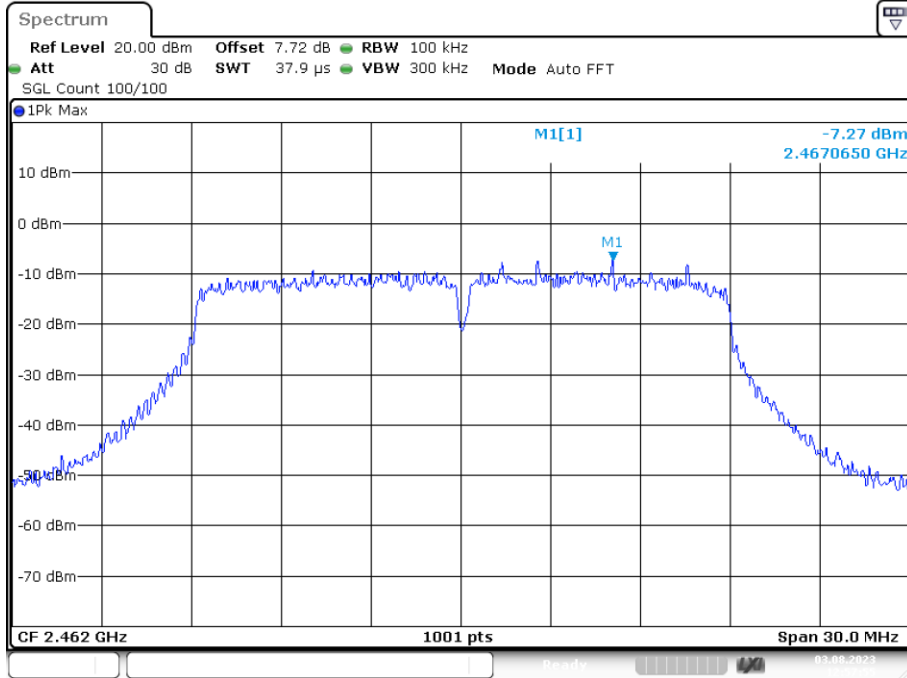
Band Edge NVNT n20 2412MHz Ant1 Emission



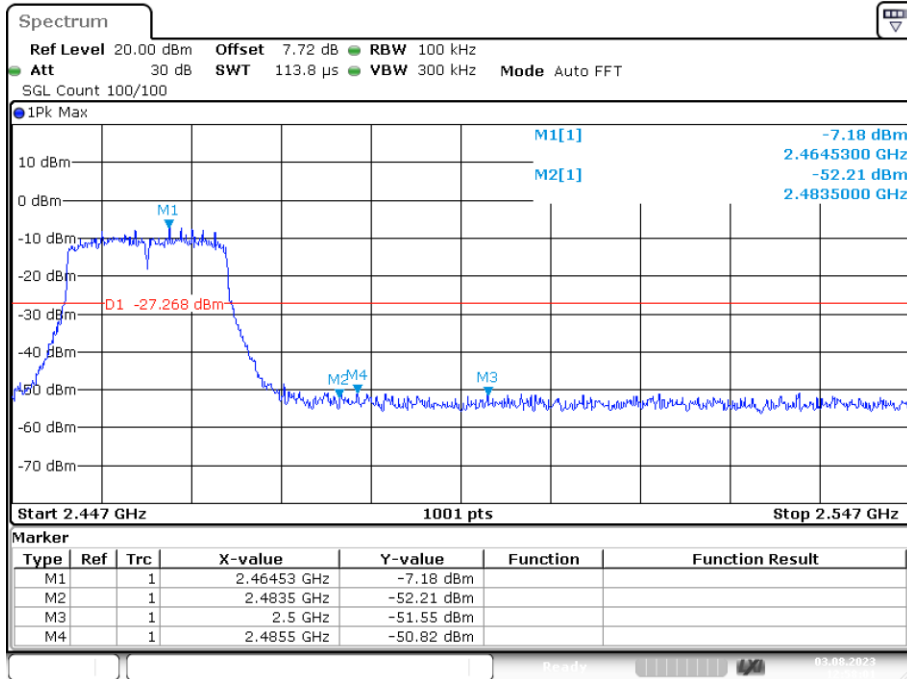
Date: 3.AUG.2023 12:50:37



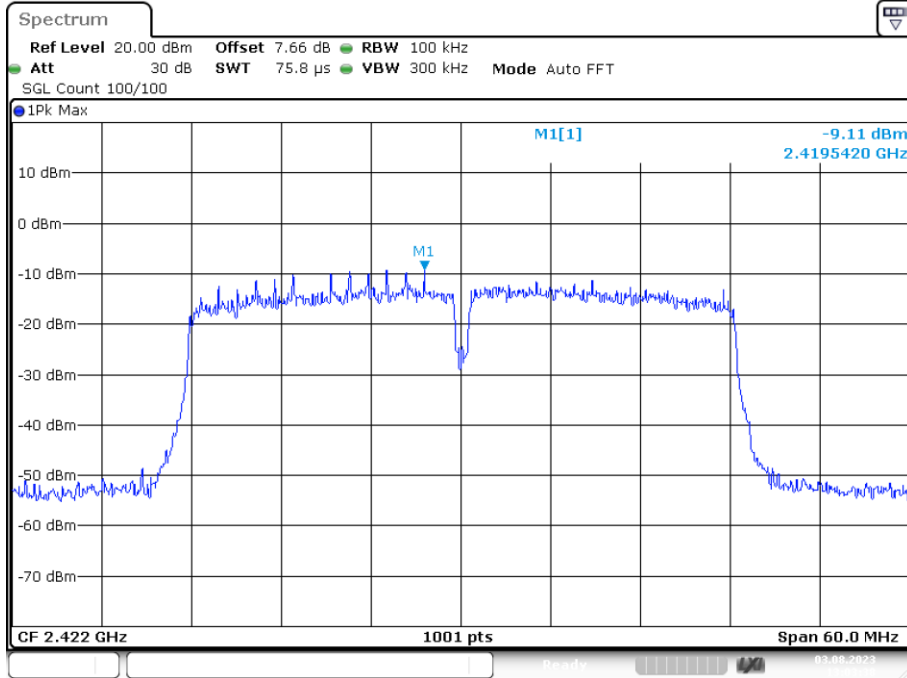
Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

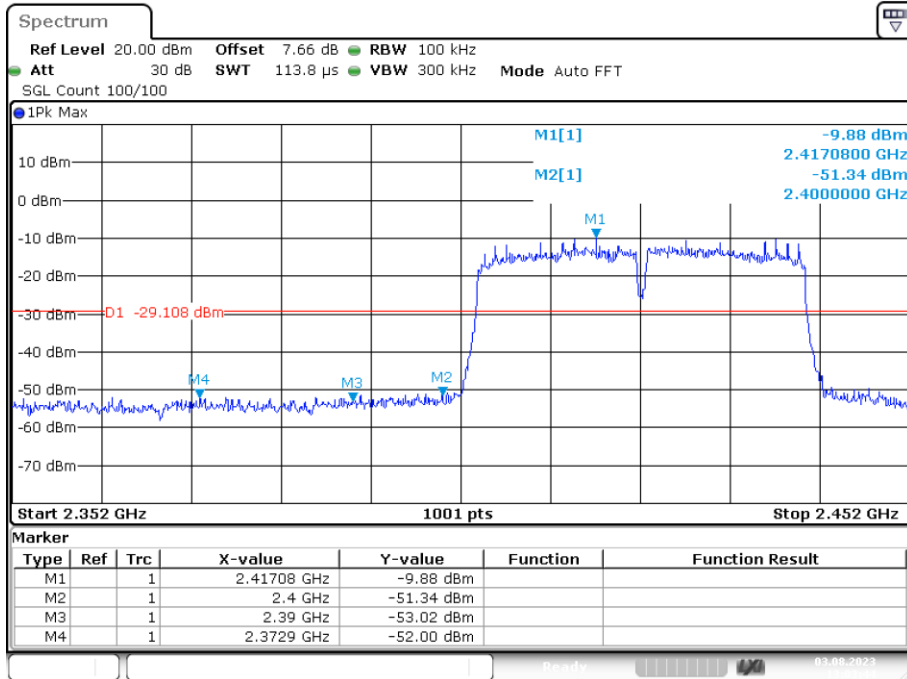


Band Edge NVNT n40 2422MHz Ant1 Ref



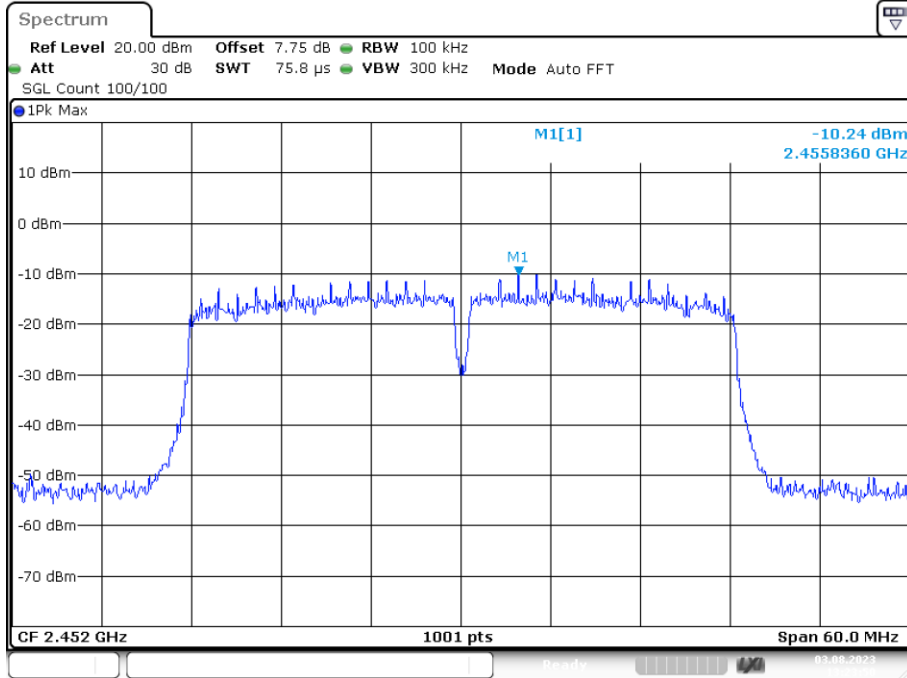
Date: 3.AUG.2023 13:03:38

Band Edge NVNT n40 2422MHz Ant1 Emission

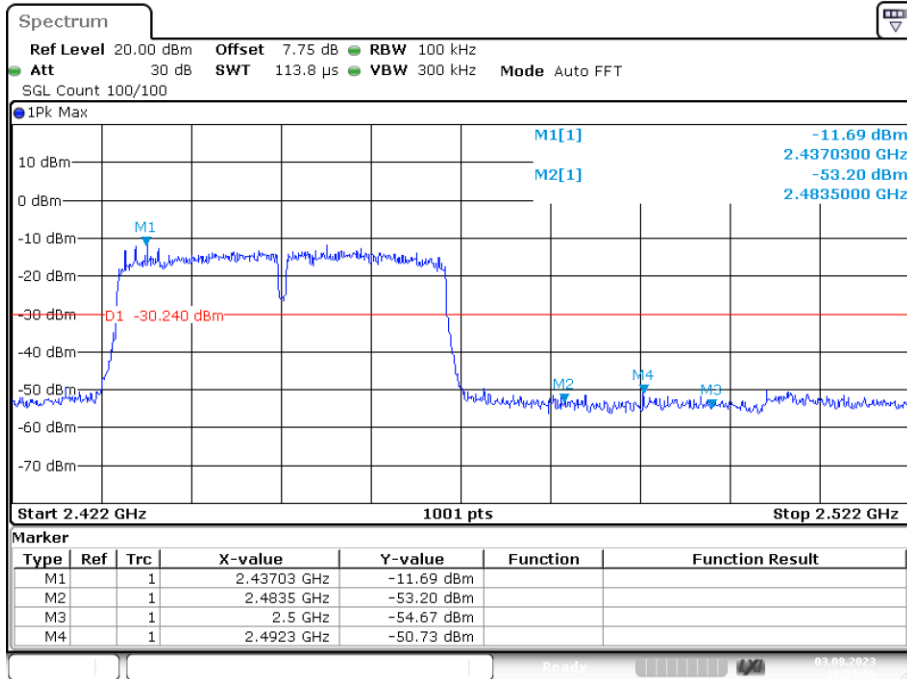


Date: 3.AUG.2023 13:03:44

Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



## 9. FREQUENCY STABILITY

### 9.1. Test limit

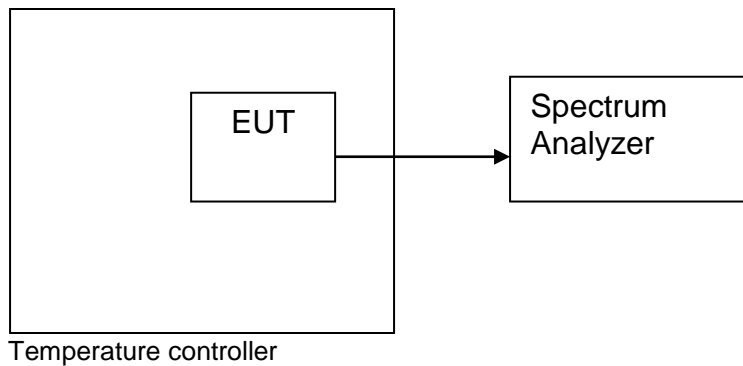
Please refer section RSS-Gen.

Regulation RSS-Gen If the frequency stability of the licence-exempt radio apparatus is not specified in the applicable RSS, the fundamental emissions of the radio apparatus should be kept within at least the central 80% of its permitted operating frequency band in order to minimize the possibility of out-of-band operation. In addition, its occupied bandwidth shall be entirely outside the restricted bands and the prohibited TV bands of 54-72 MHz, 76-88 MHz, 174-216 MHz, and 470-602 MHz, unless otherwise indicated.

### 9.2. Test Procedure

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 9.3. Test Setup



### 9.4. Test Results

**PASS.**

Detailed information please see the following page.

Assigned Frequency(MHz): 2412MHz				
Voltage	Temperature	Measured Frequency (MHz)	Frequency stability (MHz)	Limit (MHz)
Low DC 4.5V	+20°C	2412.002	0.002	±0.020
Normal DC 5V	-10°C	2412.003	0.003	±0.020
	-5°C	2412.002	0.002	±0.020
	0°C	2412.004	0.004	±0.020
	+10°C	2412.002	0.002	±0.020
	+20°C	2412.005	0.005	±0.020
	+30°C	2412.002	0.002	±0.020
	+40°C	2412.004	0.004	±0.020
	+50°C	2412.002	0.002	±0.020
High DC 5.5V	+60°C	2412.004	0.004	±0.020
	+20°C	2412.001	0.001	±0.020

Note: Record data for worst case mode

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## **10. ANTENNA REQUIREMENT**

### **10.1. Standard Requirement**

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **10.2. Antenna Connected Construction**

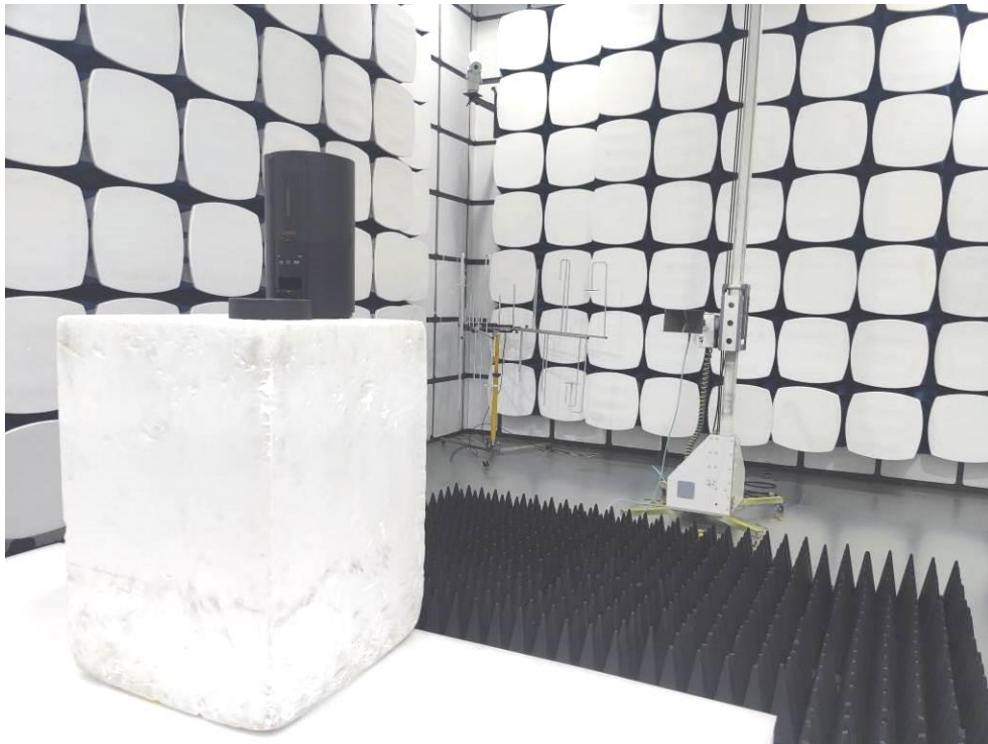
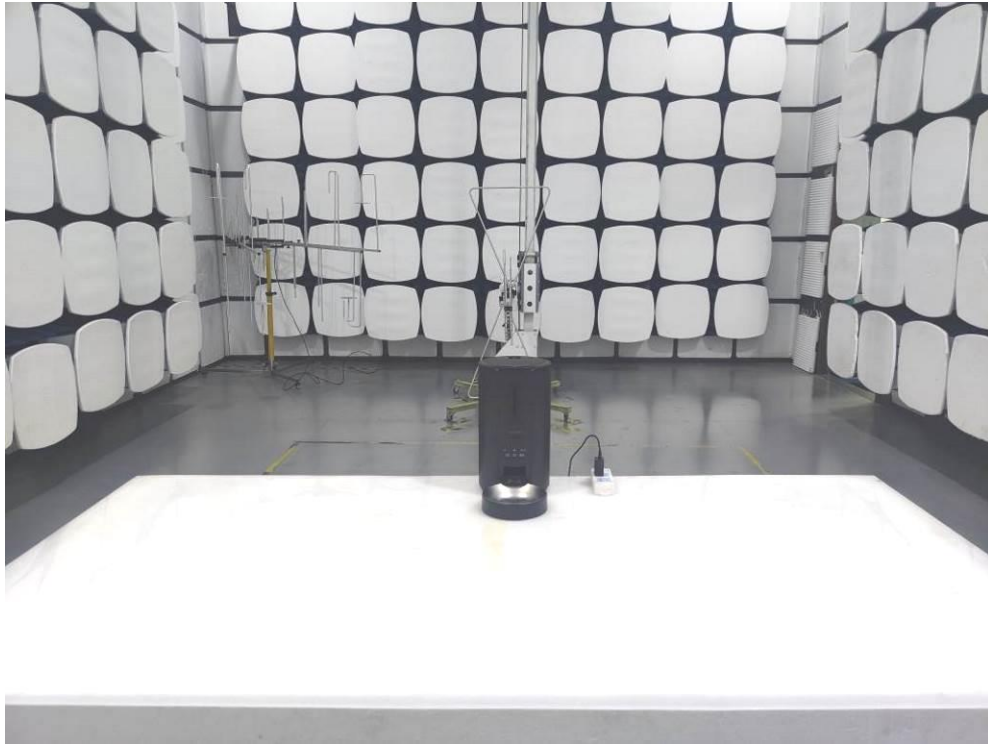
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

### **10.3. Results**

The EUT antenna is internal Antenna. It complies with the standard requirement.

## 11. TEST SETUP PHOTO

### 11.1. Photo of Radiated Emission test



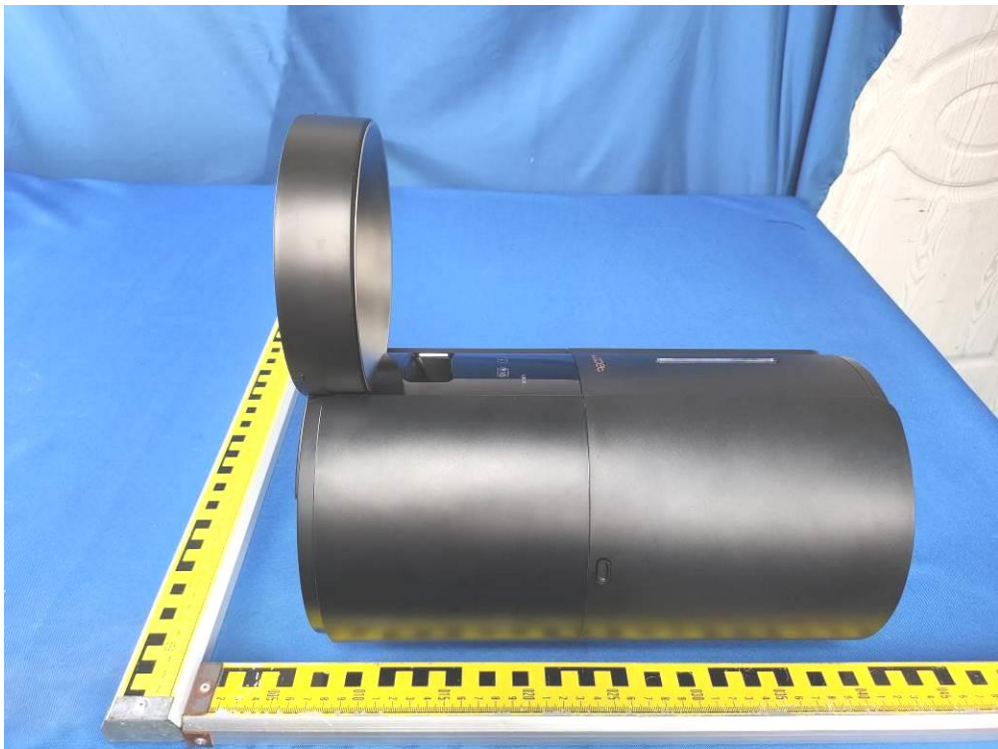
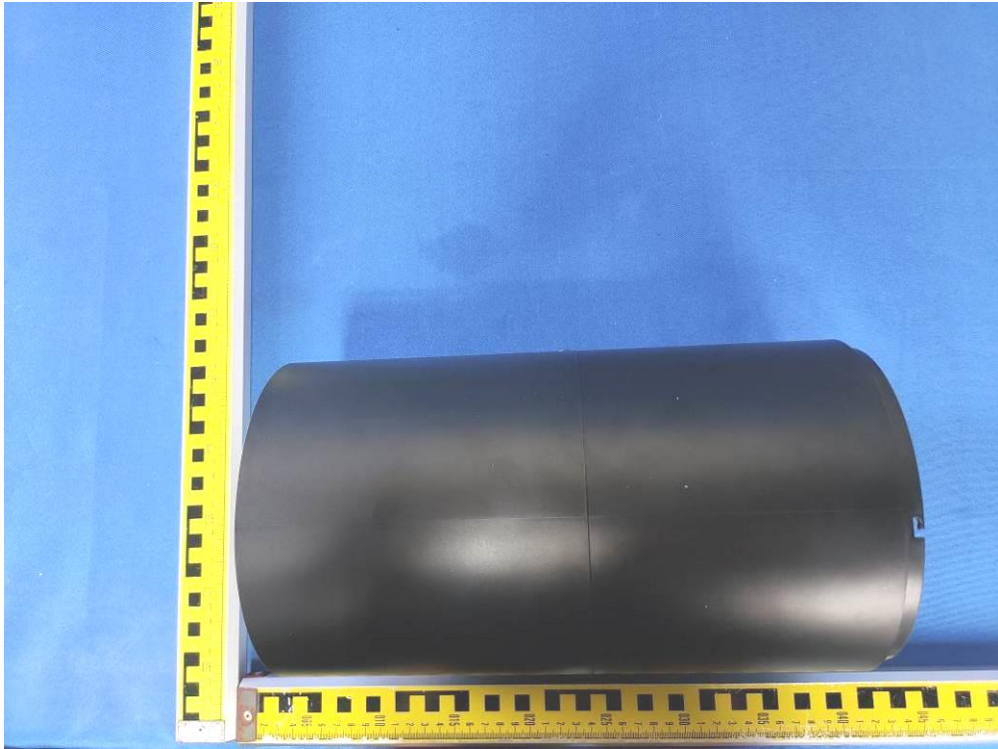
11.2.Photo of Conducted Emission test

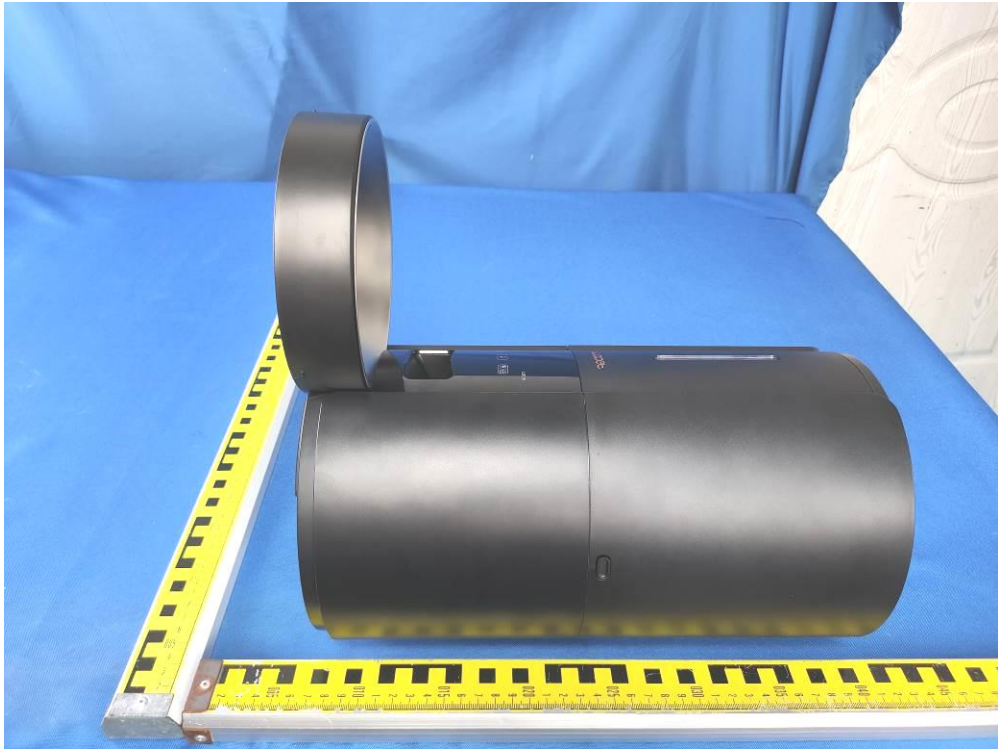


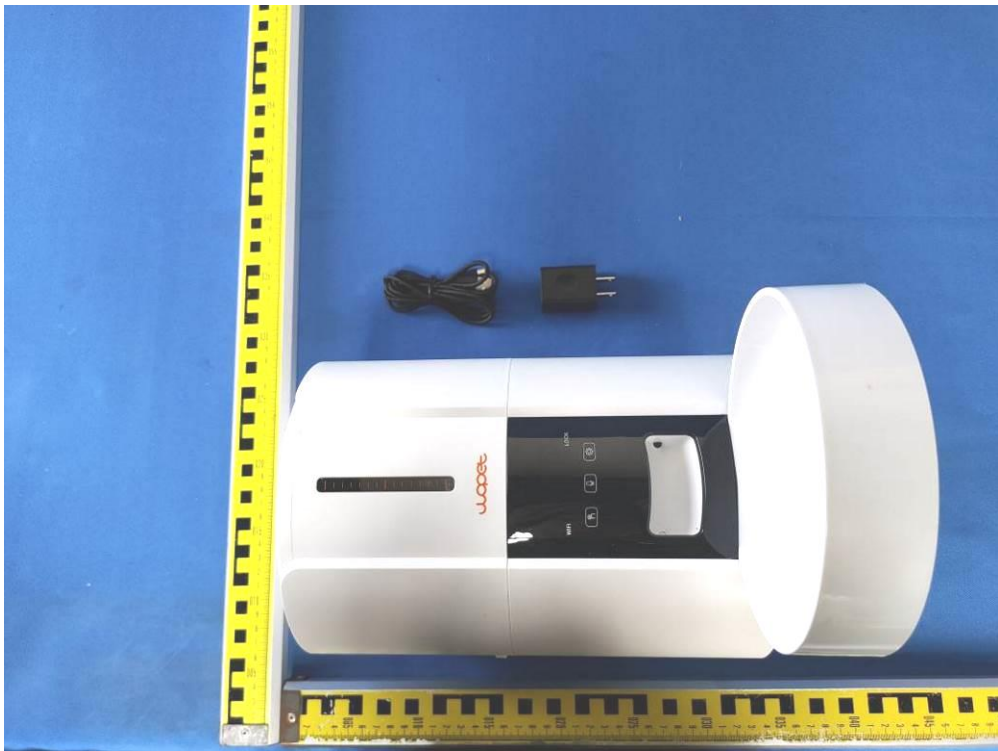
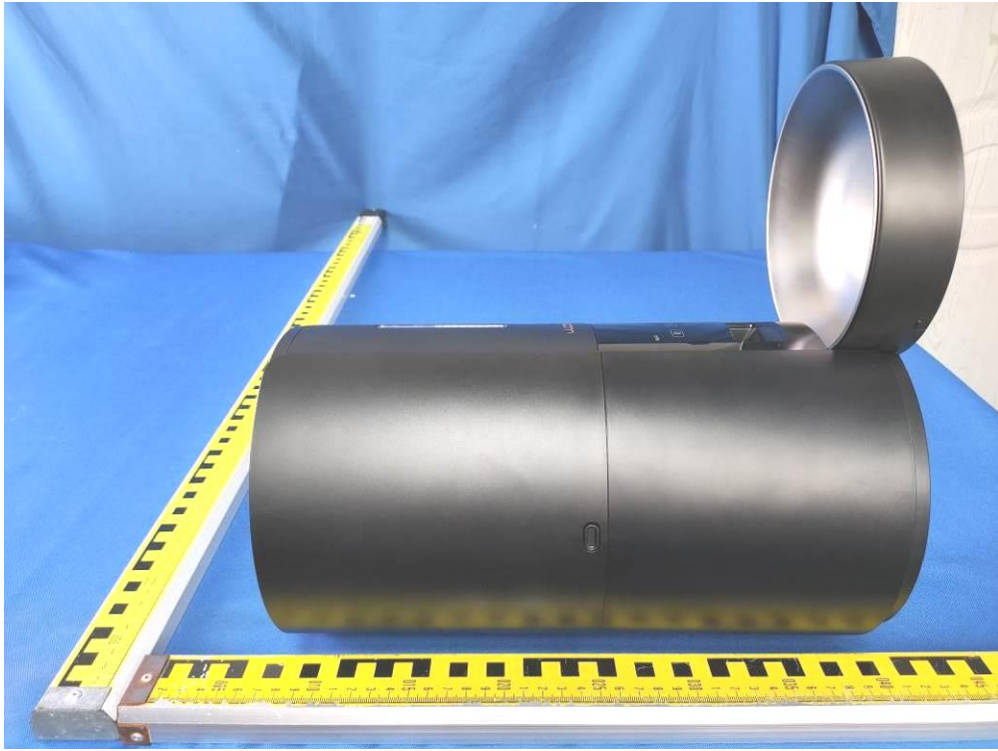


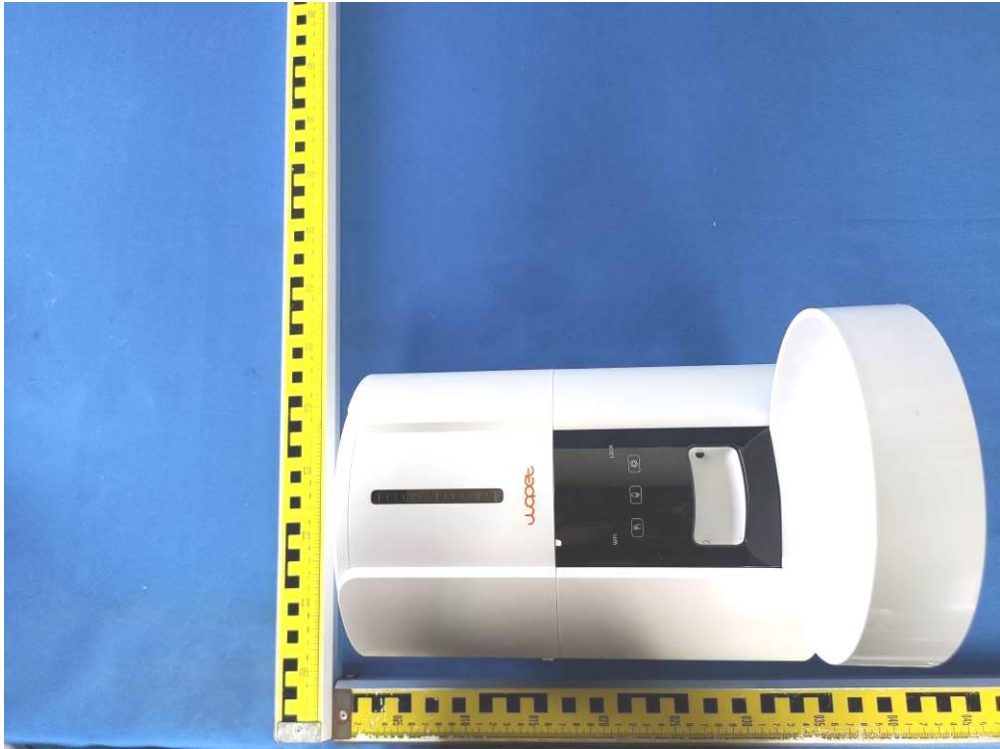
## 12. EUT PHOTO

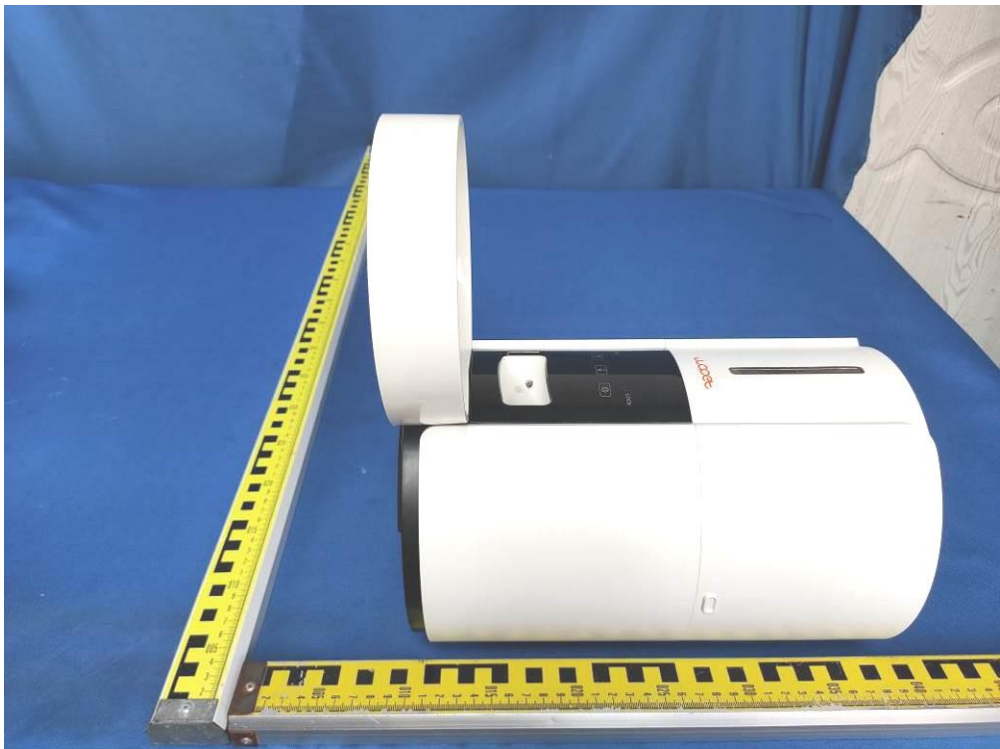


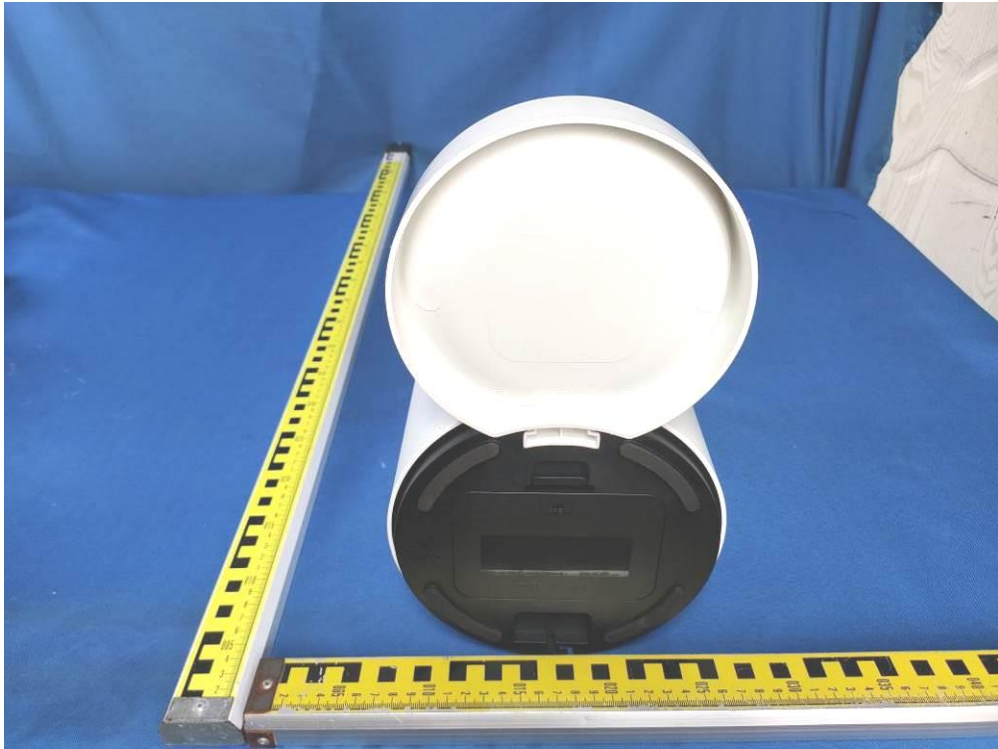








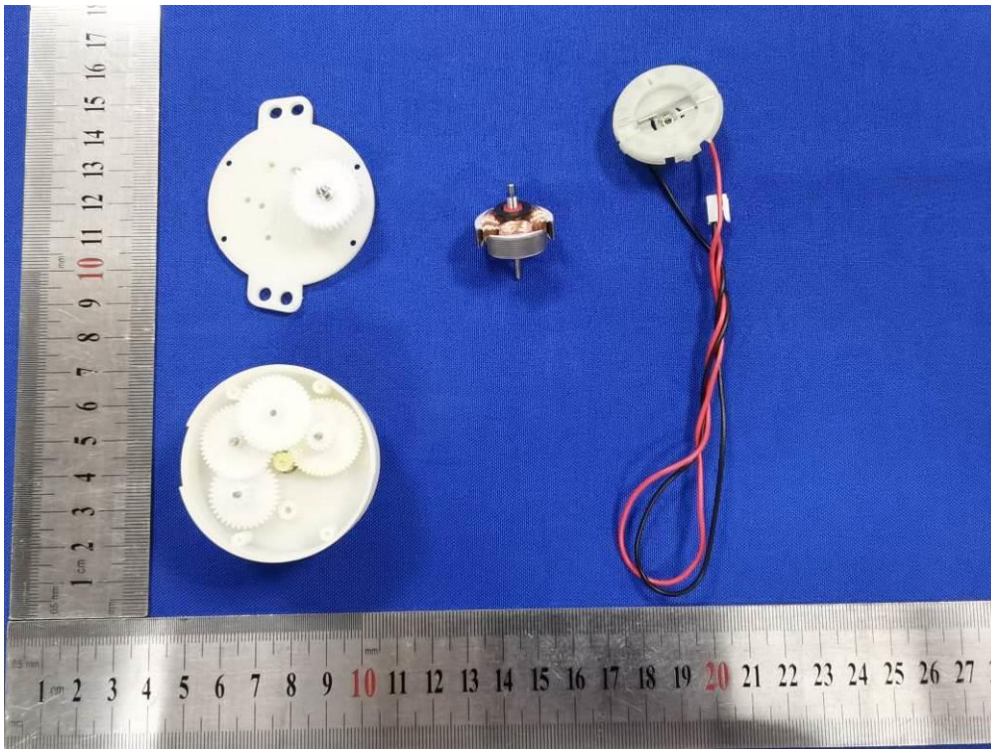
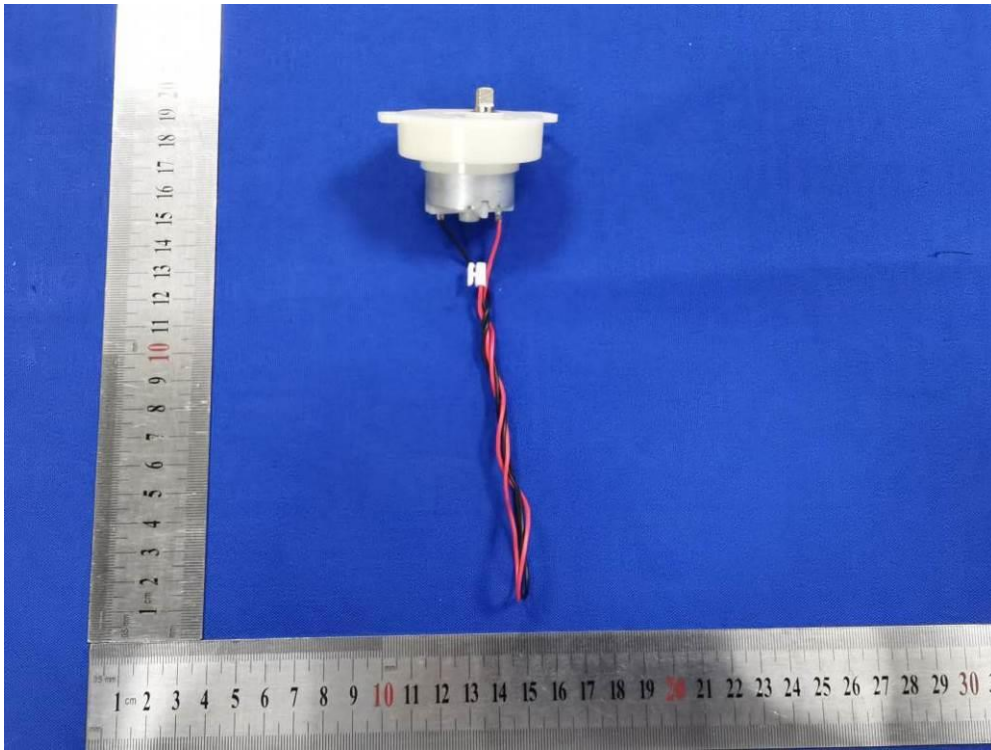


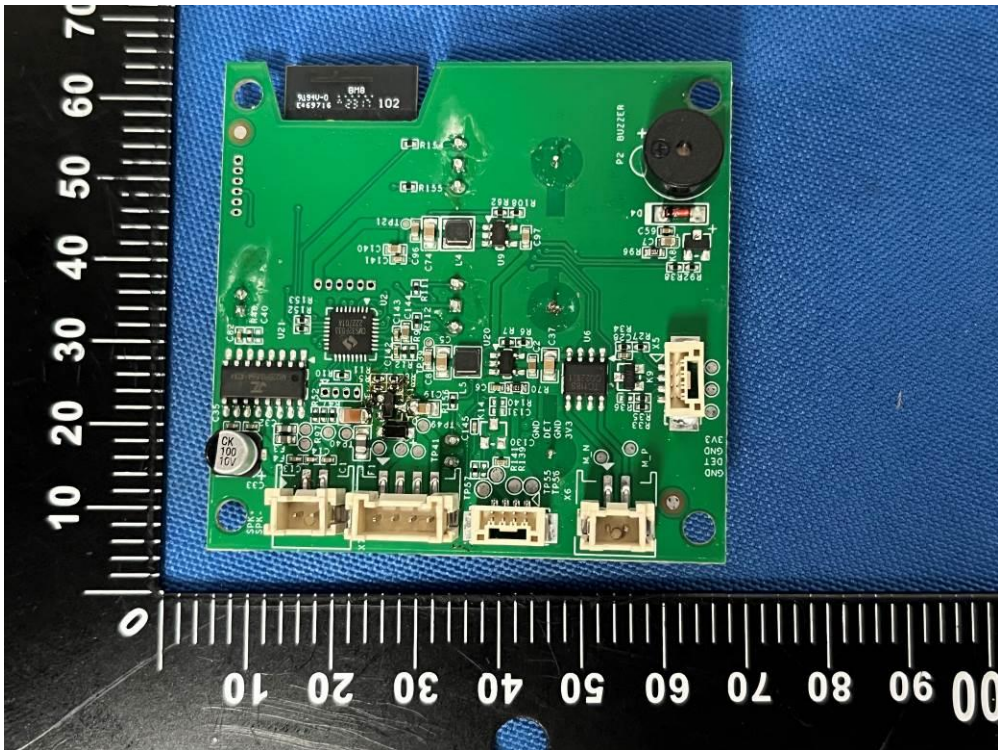
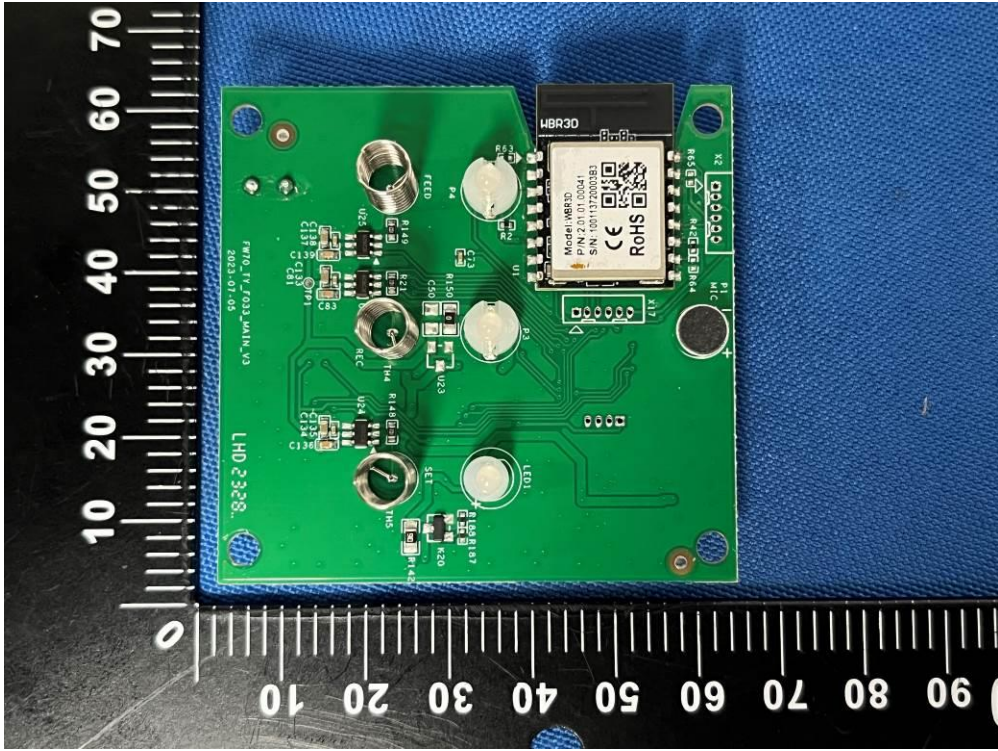


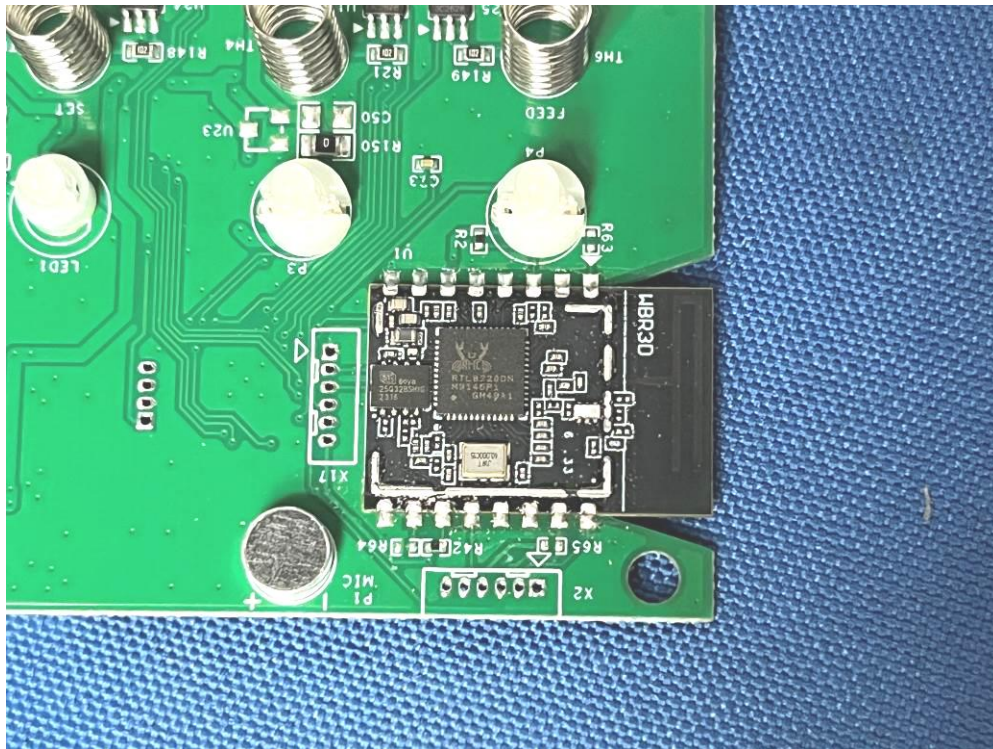
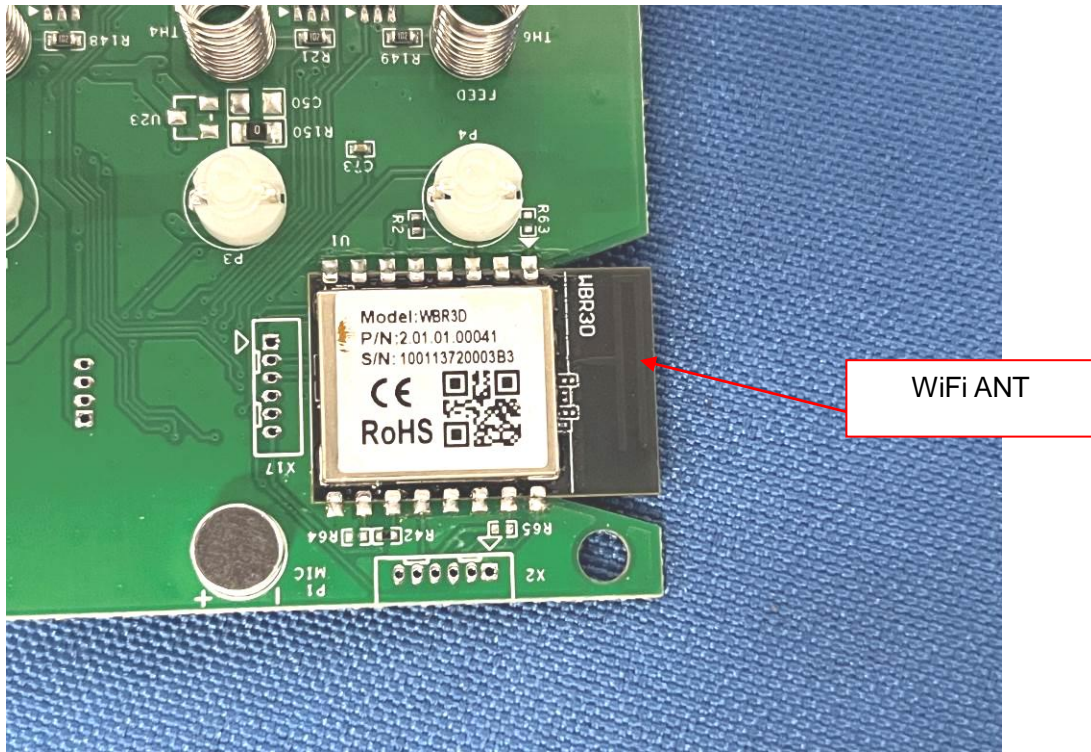












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