



### 13.4 Test Data

Test Item : Band edge  
Test Voltage : 3.8V  
Test Result : PASS

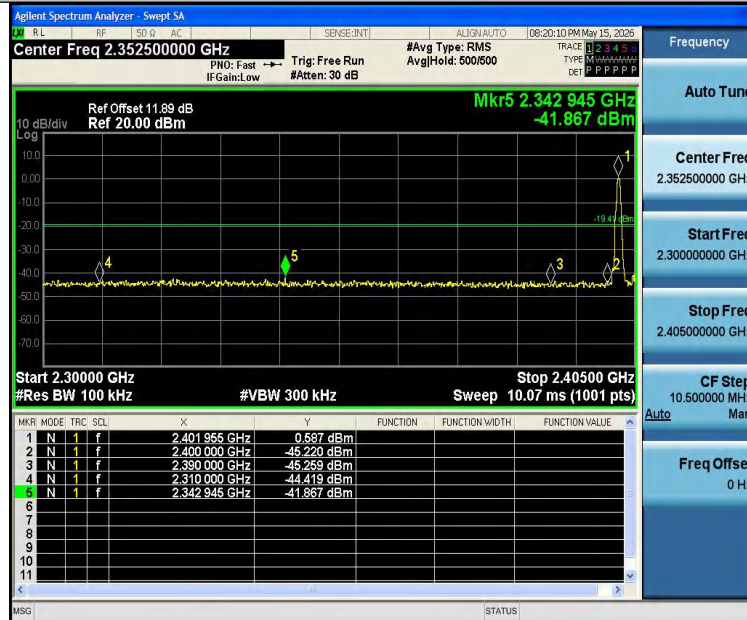
Test Mode : CH Low ~ CH High  
Temperature : 24.5°C  
Humidity : 55%RH

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402           | 0.59              | -41.87          | ≤-19.41        | PASS    |
| DH5      | Ant1    | High   | 2480           | 3.00              | -41.77          | ≤-17           | PASS    |
| DH5      | Ant1    | Low    | Hop_2402       | -0.50             | -42.3           | ≤-20.5         | PASS    |
| DH5      | Ant1    | High   | Hop_2480       | 2.30              | -41.37          | ≤-17.7         | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | 0.19              | -41.29          | ≤-19.81        | PASS    |
| 2DH5     | Ant1    | High   | 2480           | 2.70              | -41.8           | ≤-17.3         | PASS    |
| 2DH5     | Ant1    | Low    | Hop_2402       | -0.49             | -42.7           | ≤-20.49        | PASS    |
| 2DH5     | Ant1    | High   | Hop_2480       | 1.71              | -41.66          | ≤-18.29        | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | -0.19             | -41.86          | ≤-20.19        | PASS    |
| 3DH5     | Ant1    | High   | 2480           | 2.65              | -42.34          | ≤-17.35        | PASS    |
| 3DH5     | Ant1    | Low    | Hop_2402       | -4.23             | -42.87          | ≤-24.23        | PASS    |
| 3DH5     | Ant1    | High   | Hop_2480       | 0.54              | -41.95          | ≤-19.46        | PASS    |

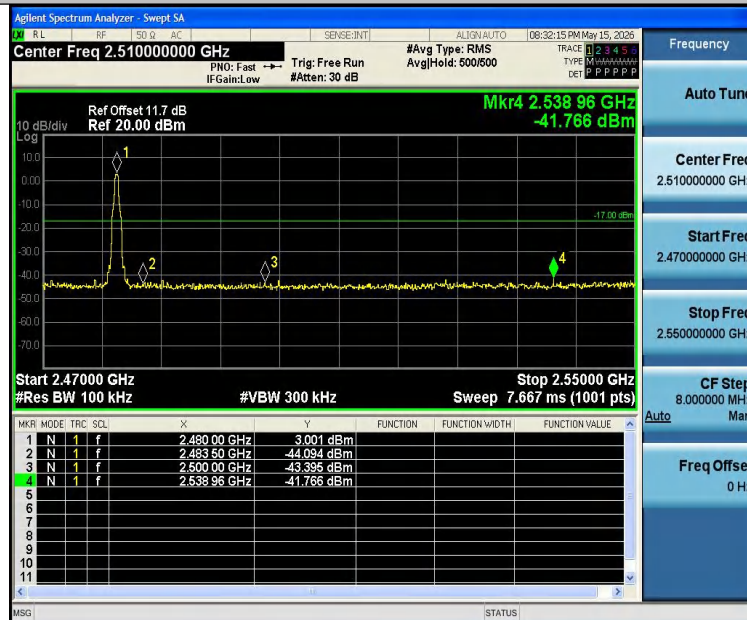


## Test Graphs:

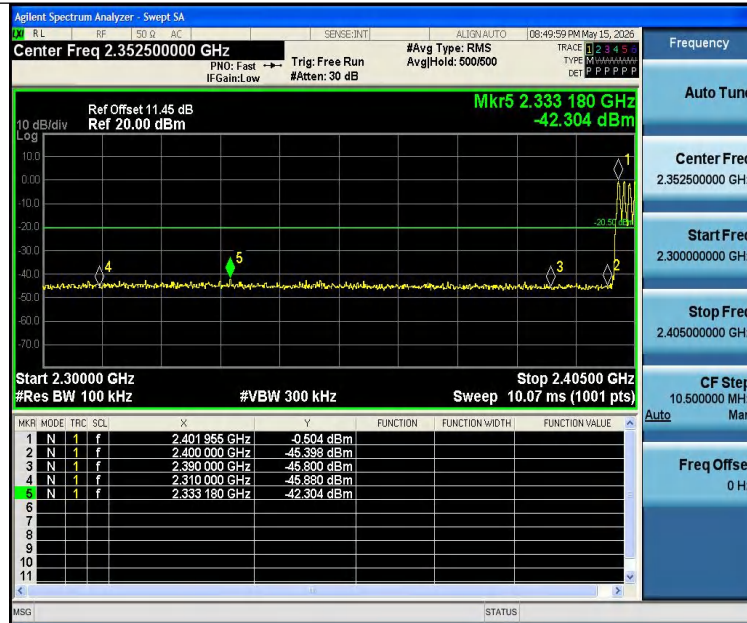
DH5-Ant1-2402-PASS



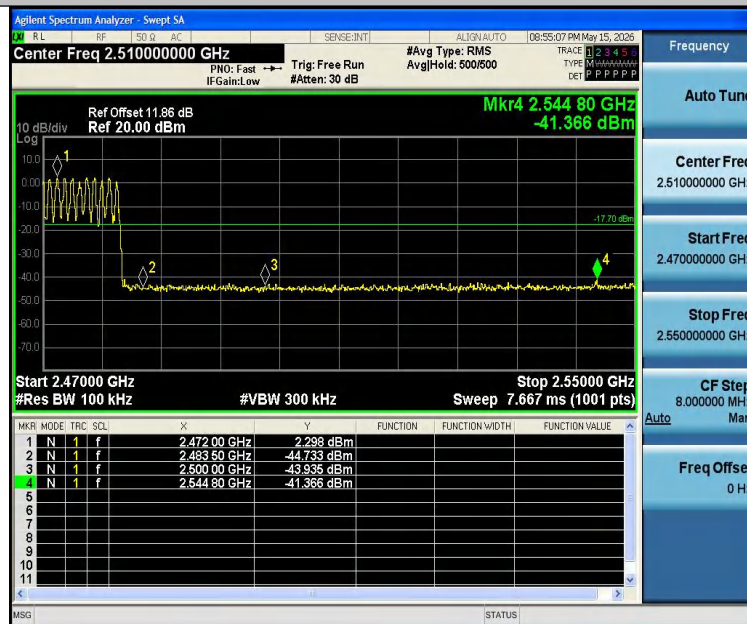
DH5-Ant1-2480-PASS



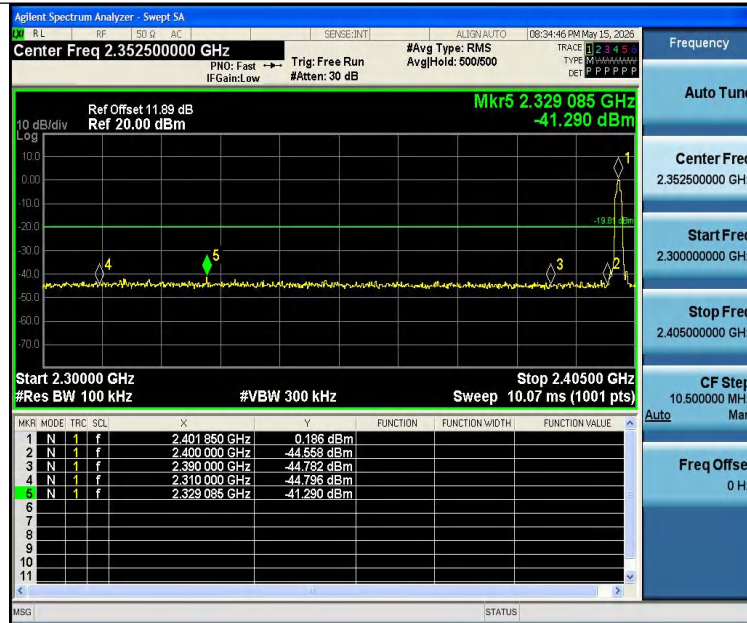
DH5-Ant1-Hop\_2402-PASS



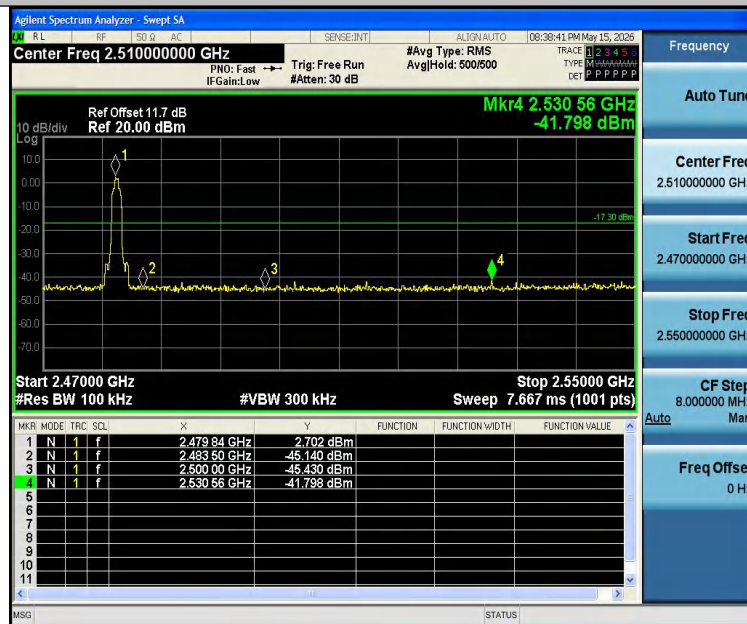
DH5-Ant1-Hop\_2480-PASS



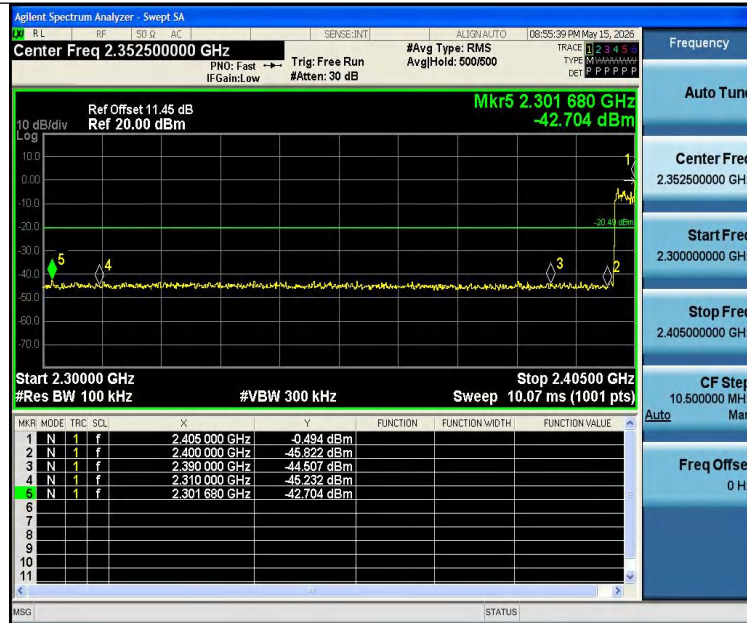
2DH5-Ant1-2402-PASS



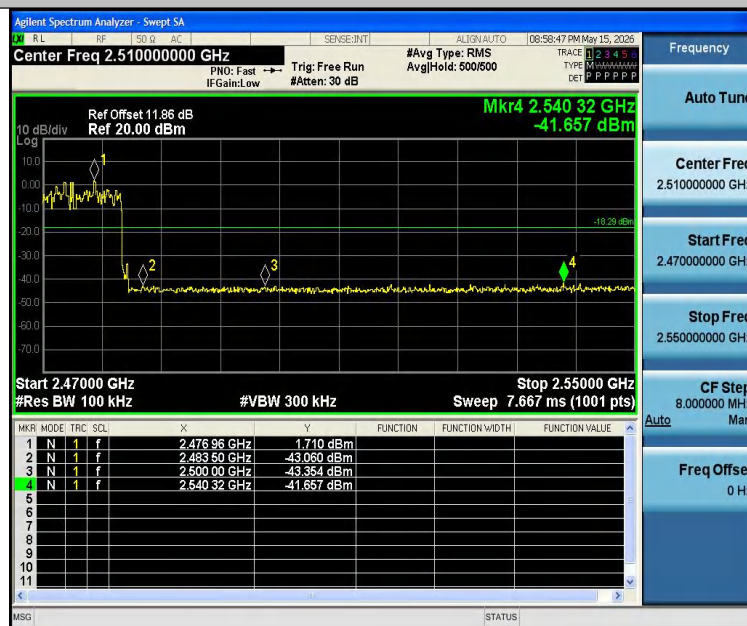
2DH5-Ant1-2480-PASS



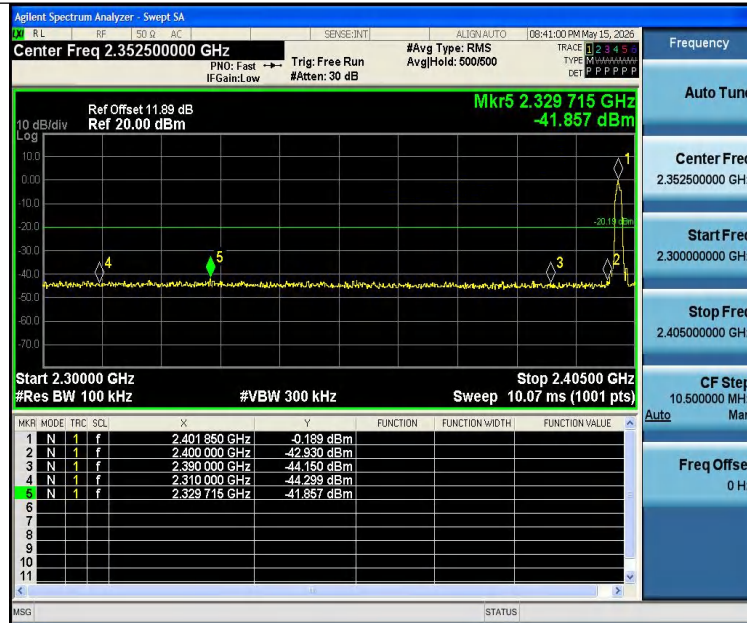
2DH5-Ant1-Hop\_2402-PASS



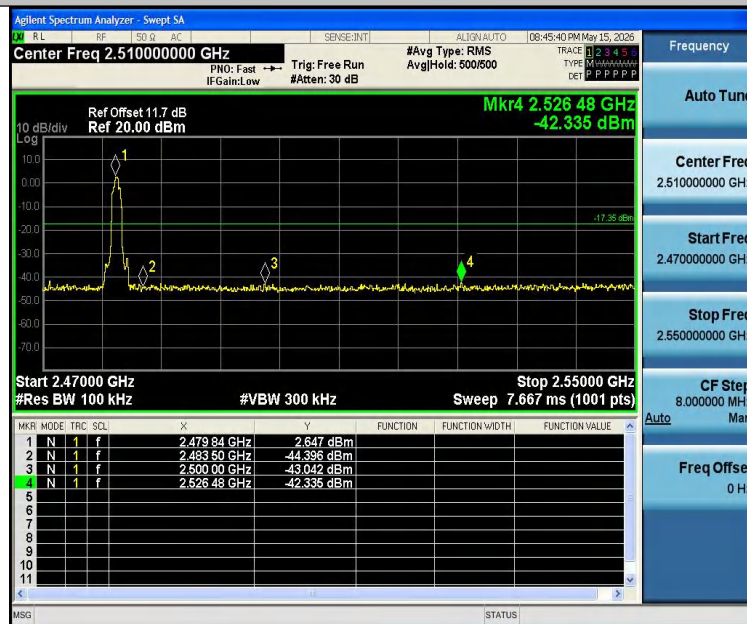
## 2DH5-Ant1-Hop\_2480-PASS



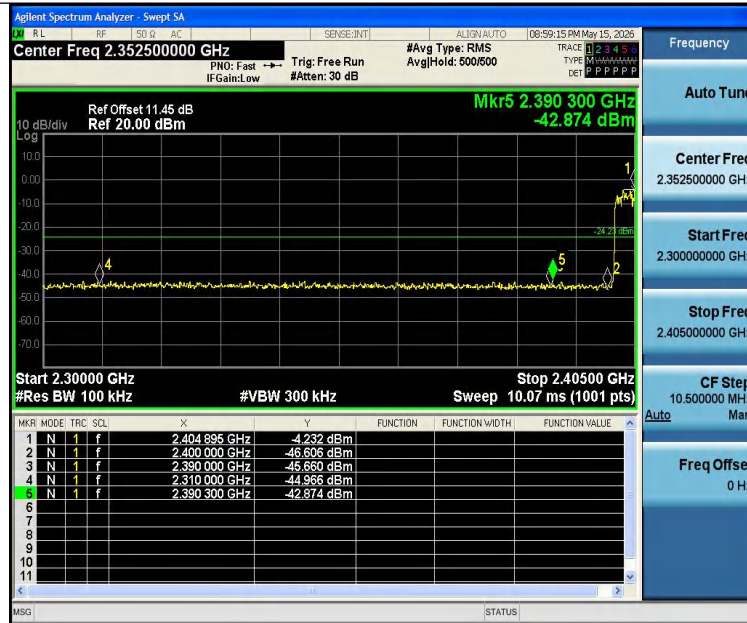
## 3DH5-Ant1-2402-PASS



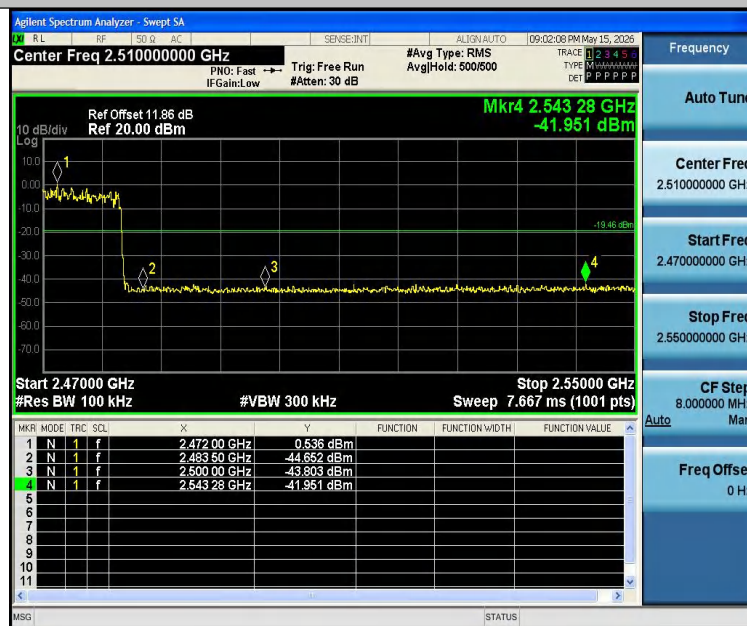
## 3DH5-Ant1-2480-PASS



## 3DH5-Ant1-Hop\_2402-PASS



## 3DH5-Ant1-Hop\_2480-PASS





## Conducted Emission Method

## Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|---------------|---------|
| DH5      | Ant1    | 2402           | 0~Reference     | 0.17           | 0.17         | ---           | PASS    |
| DH5      | Ant1    | 2402           | 30~1000         | 0.17           | -54.63       | $\leq -19.83$ | PASS    |
| DH5      | Ant1    | 2402           | 1000~26500      | 0.17           | -41.19       | $\leq -19.83$ | PASS    |
| DH5      | Ant1    | 2441           | 0~Reference     | 1.22           | 1.22         | ---           | PASS    |
| DH5      | Ant1    | 2441           | 30~1000         | 1.22           | -54.43       | $\leq -18.78$ | PASS    |
| DH5      | Ant1    | 2441           | 1000~26500      | 1.22           | -42.82       | $\leq -18.78$ | PASS    |
| DH5      | Ant1    | 2480           | 0~Reference     | 2.64           | 2.64         | ---           | PASS    |
| DH5      | Ant1    | 2480           | 30~1000         | 2.64           | -53.65       | $\leq -17.36$ | PASS    |
| DH5      | Ant1    | 2480           | 1000~26500      | 2.64           | -42.08       | $\leq -17.36$ | PASS    |
| 2DH5     | Ant1    | 2402           | 0~Reference     | 0.17           | 0.17         | ---           | PASS    |
| 2DH5     | Ant1    | 2402           | 30~1000         | 0.17           | -54.2        | $\leq -19.83$ | PASS    |
| 2DH5     | Ant1    | 2402           | 1000~26500      | 0.17           | -42.6        | $\leq -19.83$ | PASS    |
| 2DH5     | Ant1    | 2441           | 0~Reference     | 1.05           | 1.05         | ---           | PASS    |
| 2DH5     | Ant1    | 2441           | 30~1000         | 1.05           | -54.55       | $\leq -18.95$ | PASS    |
| 2DH5     | Ant1    | 2441           | 1000~26500      | 1.05           | -42.65       | $\leq -18.95$ | PASS    |
| 2DH5     | Ant1    | 2480           | 0~Reference     | 2.61           | 2.61         | ---           | PASS    |
| 2DH5     | Ant1    | 2480           | 30~1000         | 2.61           | -55.18       | $\leq -17.39$ | PASS    |
| 2DH5     | Ant1    | 2480           | 1000~26500      | 2.61           | -43.07       | $\leq -17.39$ | PASS    |
| 3DH5     | Ant1    | 2402           | 0~Reference     | 0.13           | 0.13         | ---           | PASS    |
| 3DH5     | Ant1    | 2402           | 30~1000         | 0.13           | -54.1        | $\leq -19.87$ | PASS    |
| 3DH5     | Ant1    | 2402           | 1000~26500      | 0.13           | -42.55       | $\leq -19.87$ | PASS    |
| 3DH5     | Ant1    | 2441           | 0~Reference     | 1.16           | 1.16         | ---           | PASS    |
| 3DH5     | Ant1    | 2441           | 30~1000         | 1.16           | -54.47       | $\leq -18.84$ | PASS    |
| 3DH5     | Ant1    | 2441           | 1000~26500      | 1.16           | -42.31       | $\leq -18.84$ | PASS    |
| 3DH5     | Ant1    | 2480           | 0~Reference     | 2.62           | 2.62         | ---           | PASS    |
| 3DH5     | Ant1    | 2480           | 30~1000         | 2.62           | -55.03       | $\leq -17.38$ | PASS    |
| 3DH5     | Ant1    | 2480           | 1000~26500      | 2.62           | -42.07       | $\leq -17.38$ | PASS    |



## Test Graphs:

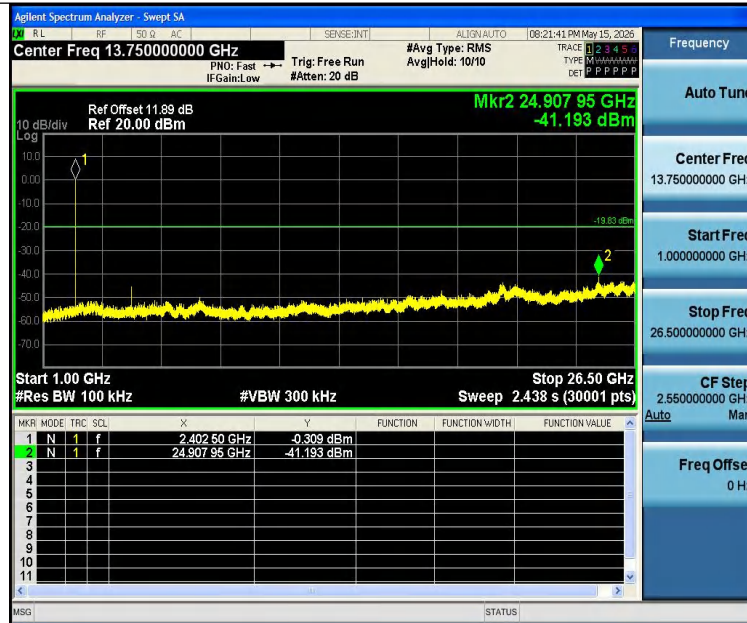
DH5-Ant1-2402-0~Reference-PASS



DH5-Ant1-2402-30~1000-PASS



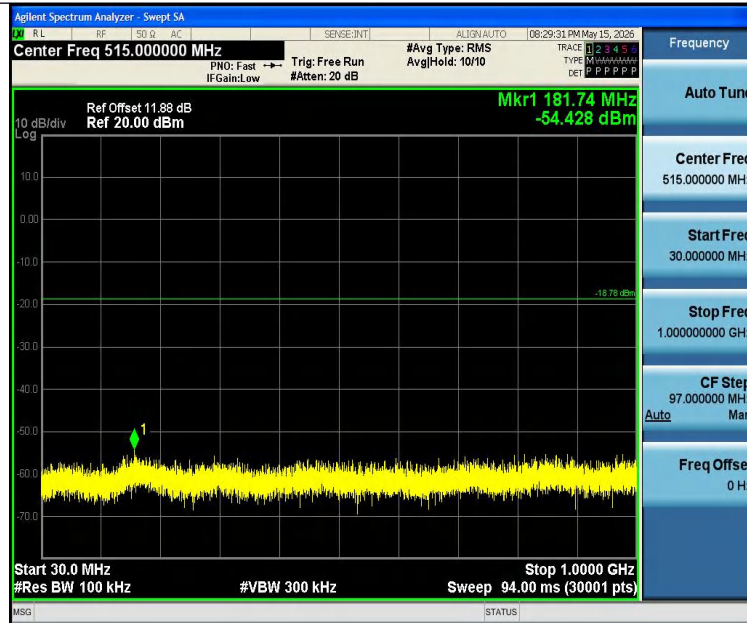
DH5-Ant1-2402-1000~26500-PASS



DH5-Ant1-2441-0~Reference-PASS



DH5-Ant1-2441-30~1000-PASS



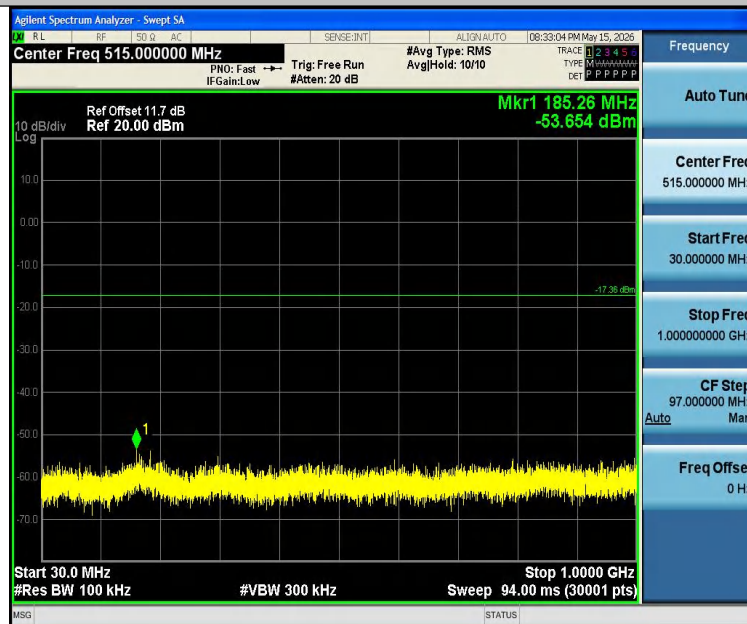
DH5-Ant1-2441-1000~26500-PASS



DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS



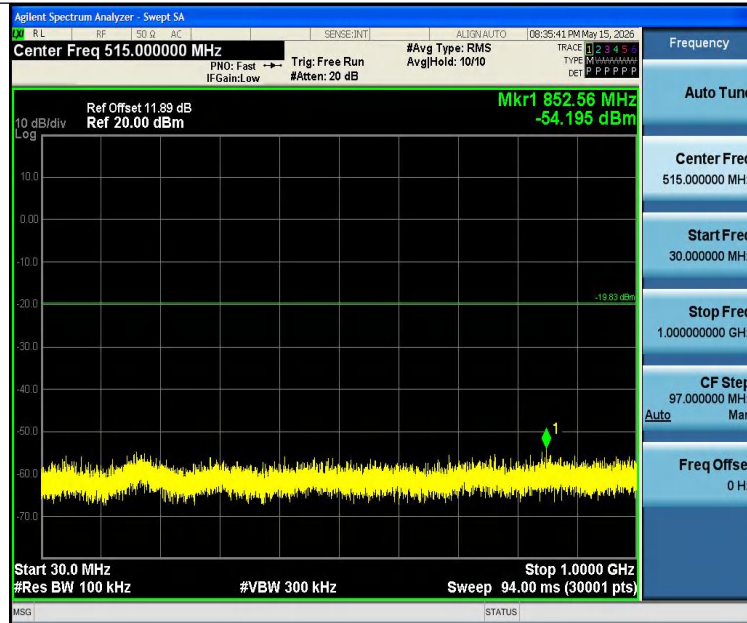
DH5-Ant1-2480-1000~26500-PASS



2DH5-Ant1-2402-0~Reference-PASS



2DH5-Ant1-2402-30~1000-PASS



2DH5-Ant1-2402-1000~26500-PASS



2DH5-Ant1-2441-0~Reference-PASS



2DH5-Ant1-2441-30~1000-PASS



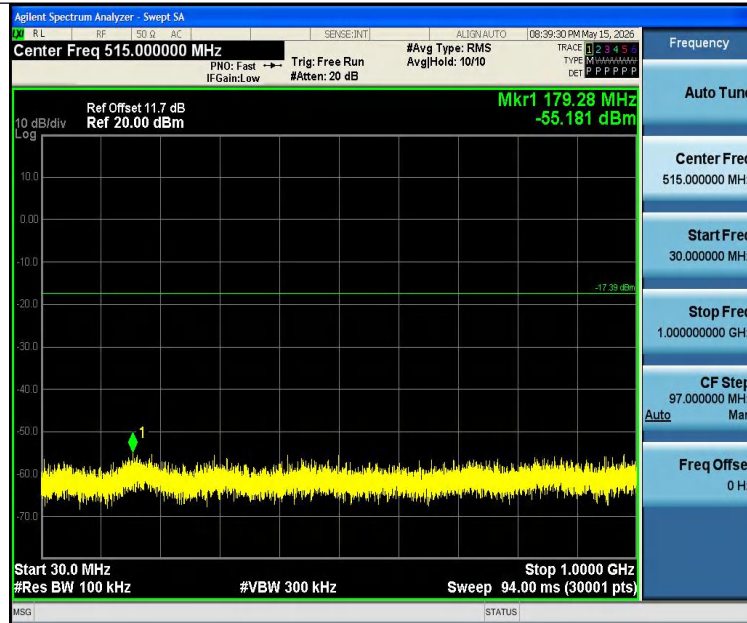
2DH5-Ant1-2441-1000~26500-PASS



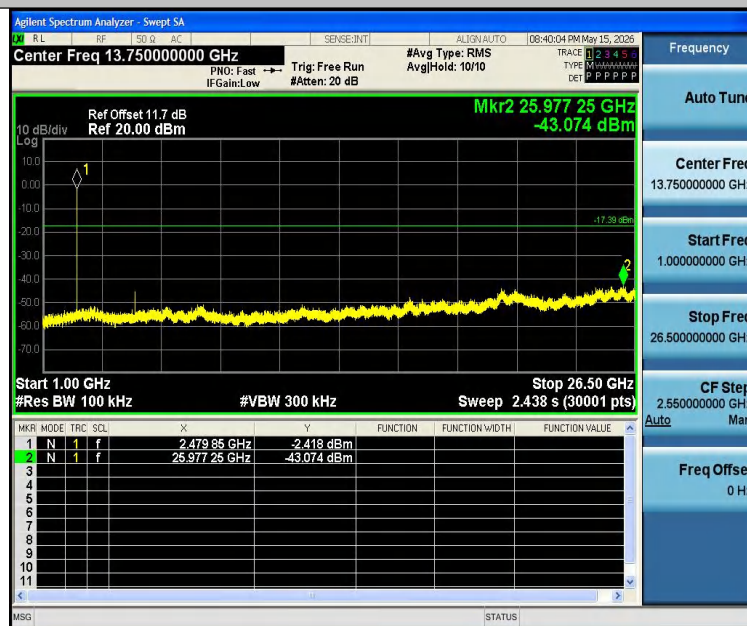
2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS



2DH5-Ant1-2480-1000~26500-PASS



3DH5-Ant1-2402-0~Reference-PASS



3DH5-Ant1-2402-30~1000-PASS



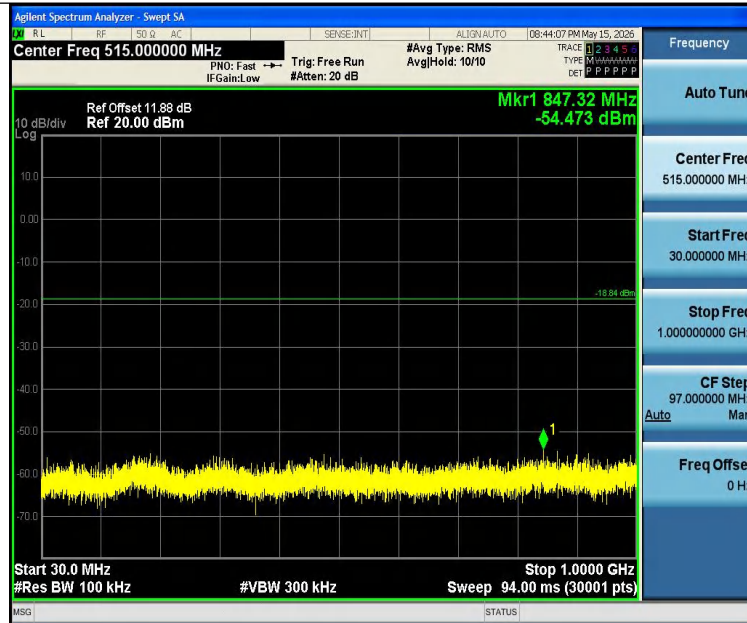
3DH5-Ant1-2402-1000~26500-PASS



3DH5-Ant1-2441-0~Reference-PASS



3DH5-Ant1-2441-30~1000-PASS



3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS



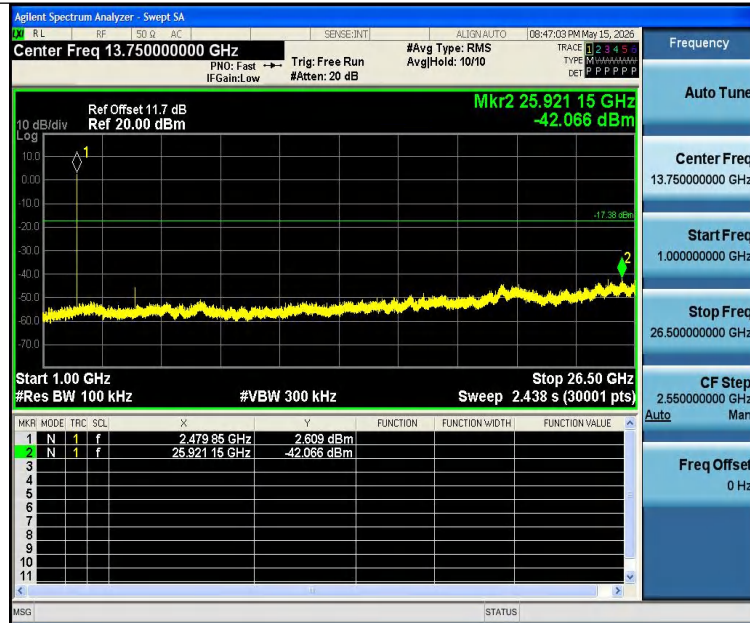
Report No.: PTC26032423805E-FC01



3DH5-Ant1-2480-30~1000-PASS



3DH5-Ant1-2480-1000~26500-PASS





## 14 Antenna Requirement

### 14.1 Test Standard and Requirement

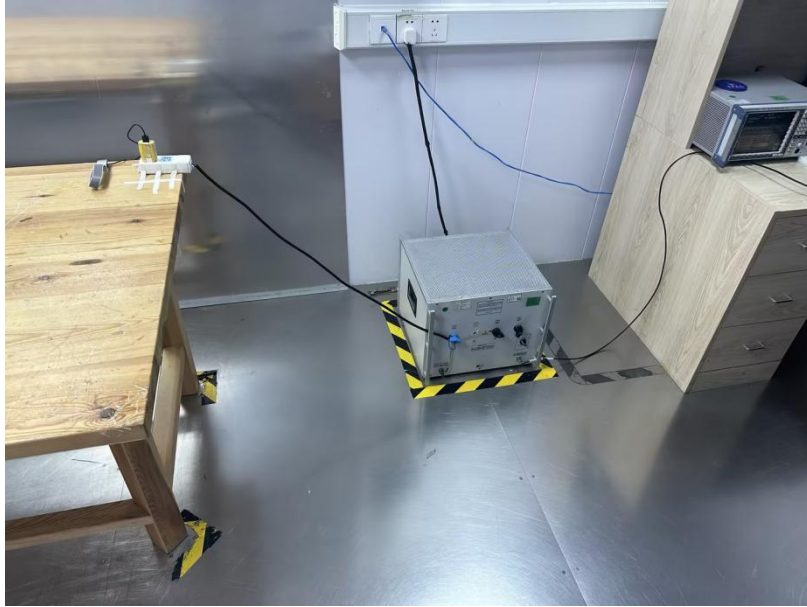
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Standard | FCC Part15 Section 15.203 /247(c)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Requirement   | <p>1) 15.203 requirement:</p> <p>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, 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.</p> <p>2) 15.247(c) (1)(i) requirement:</p> <p>Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p> |

### 14.2 Antenna Connected Construction

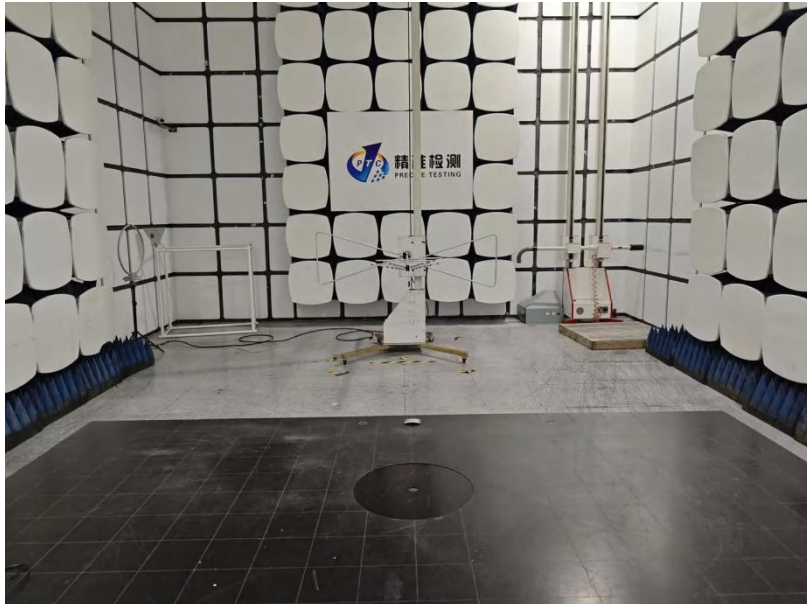
The antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 0.17 dBi. It complies with the standard requirement.

## 15 APPENDIX I -- TEST SETUP PHOTOGRAPH

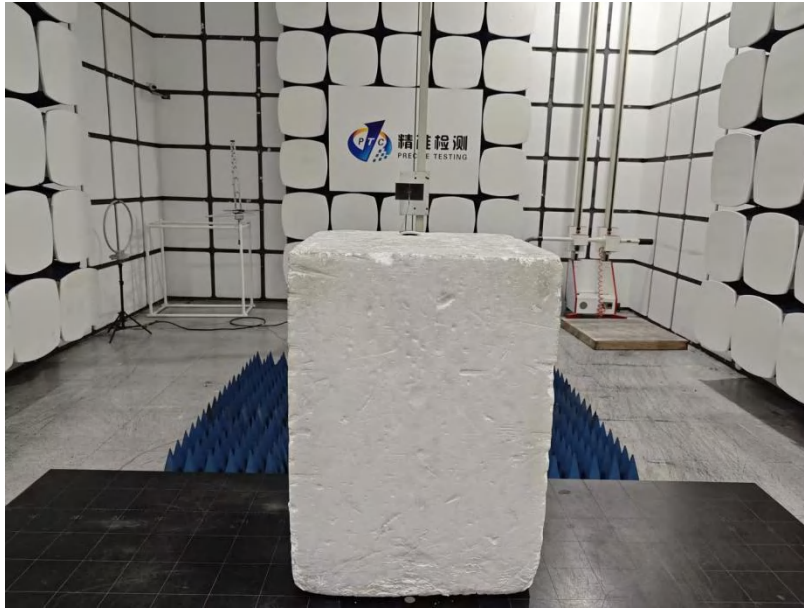
### Conducted Emissions



### Radiated Emissions From 30M-1GHz

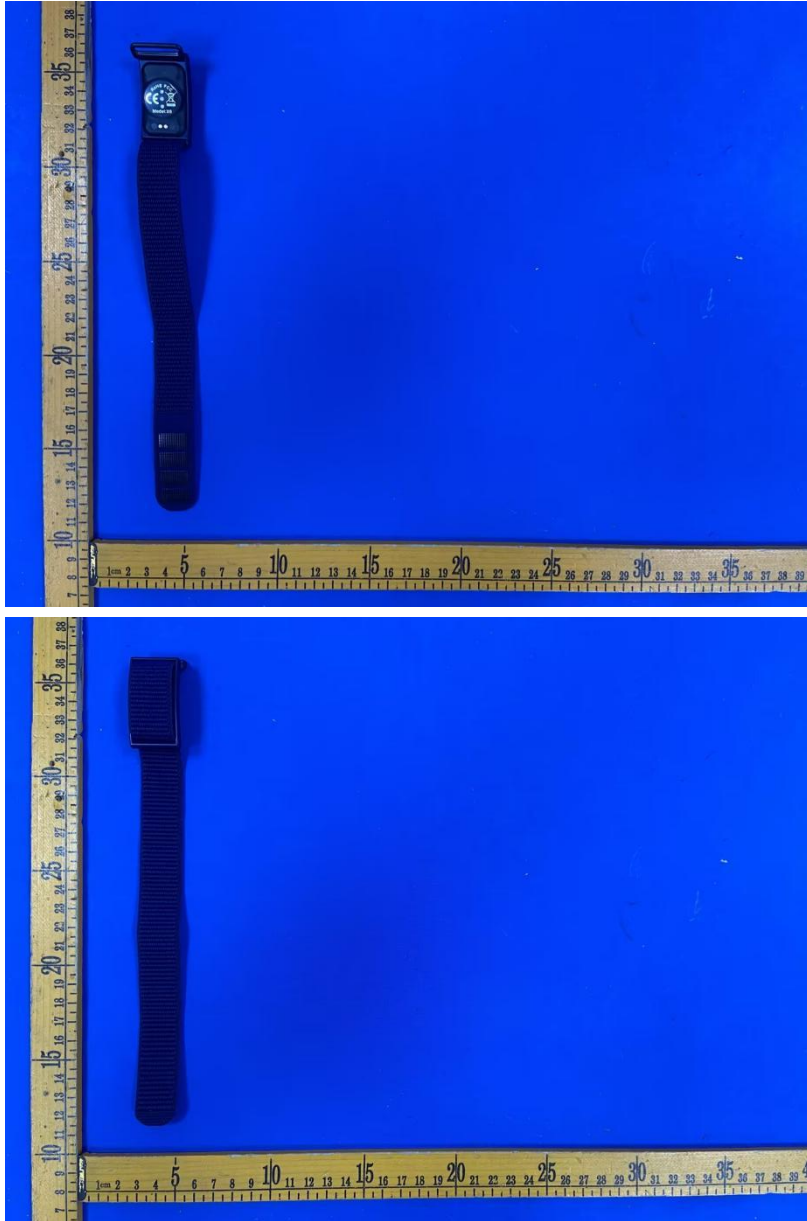


Above 1GHz



## 16 APPENDIX II -- EUT PHOTOGRAPH



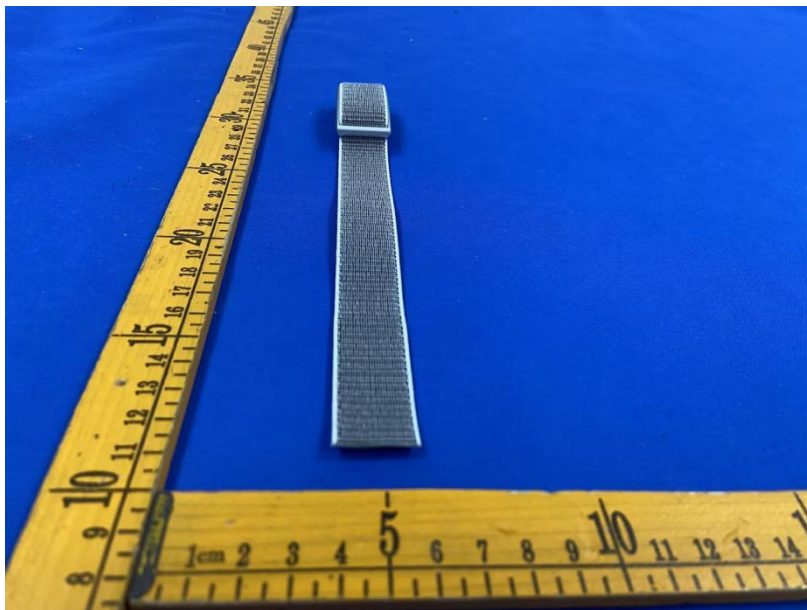


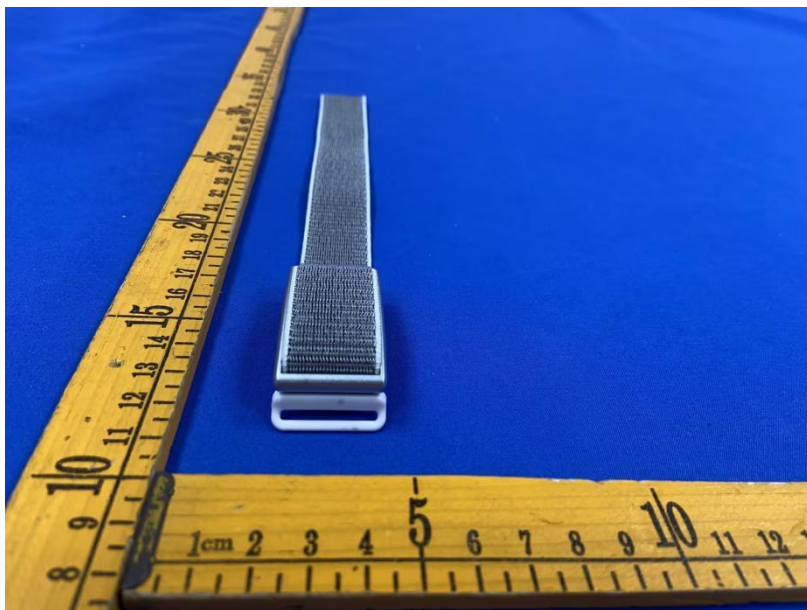
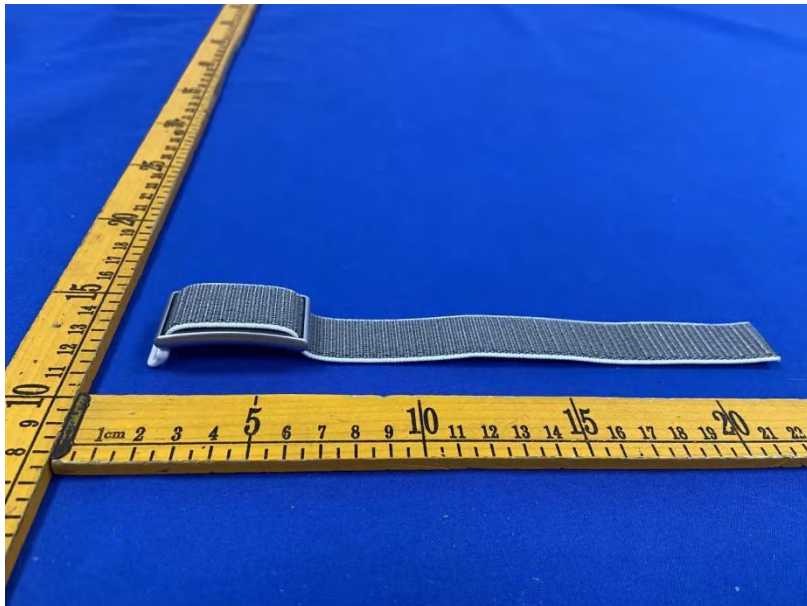


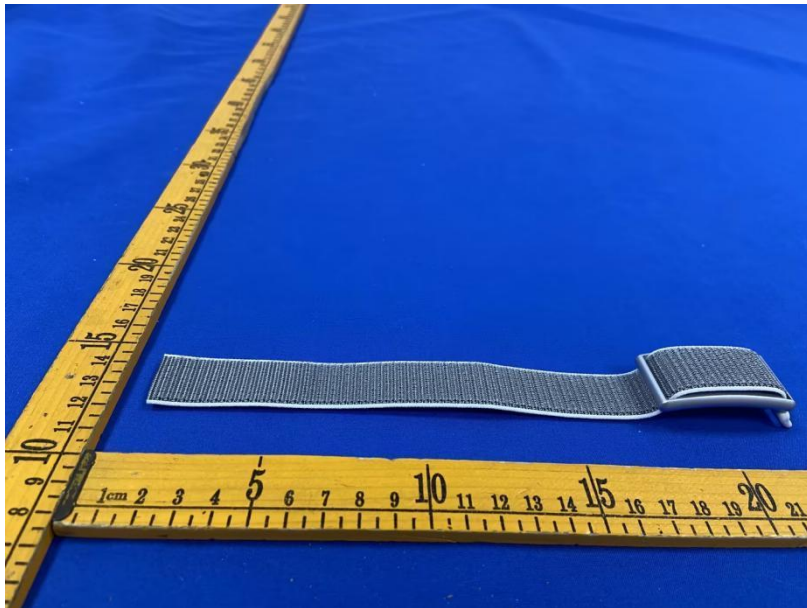


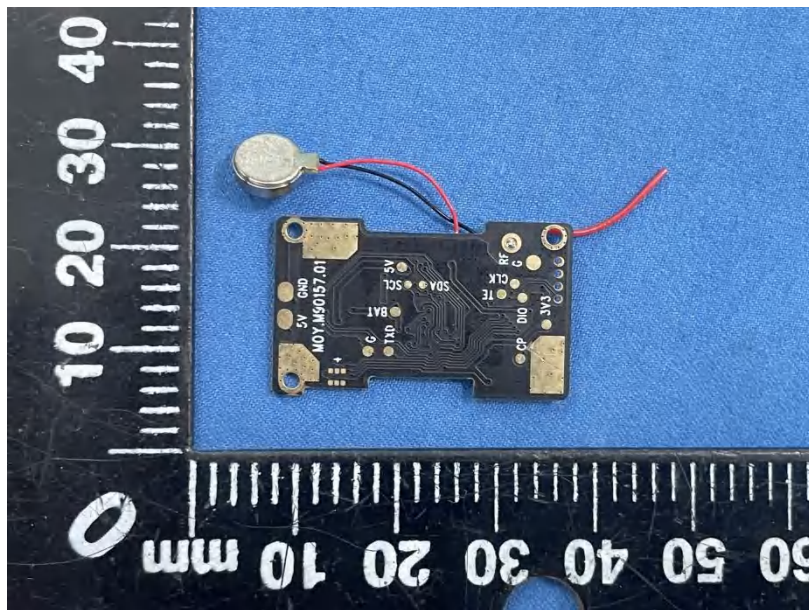
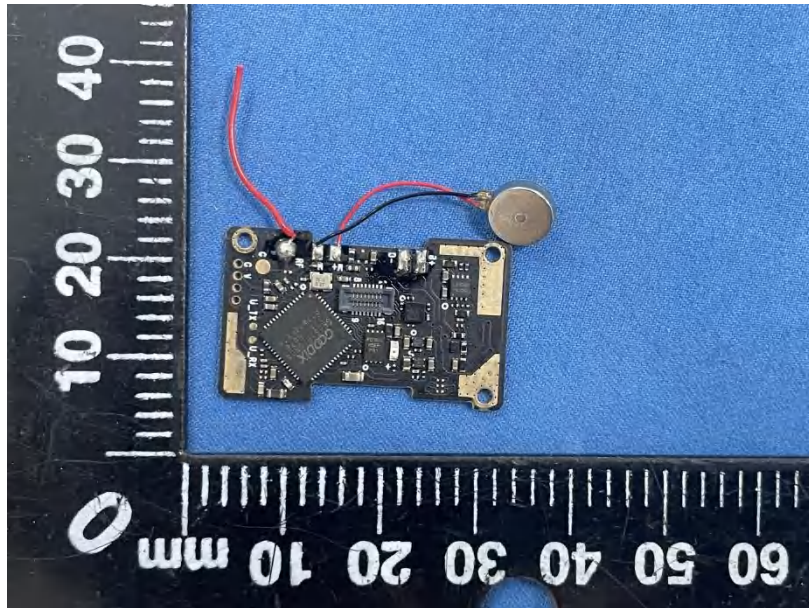


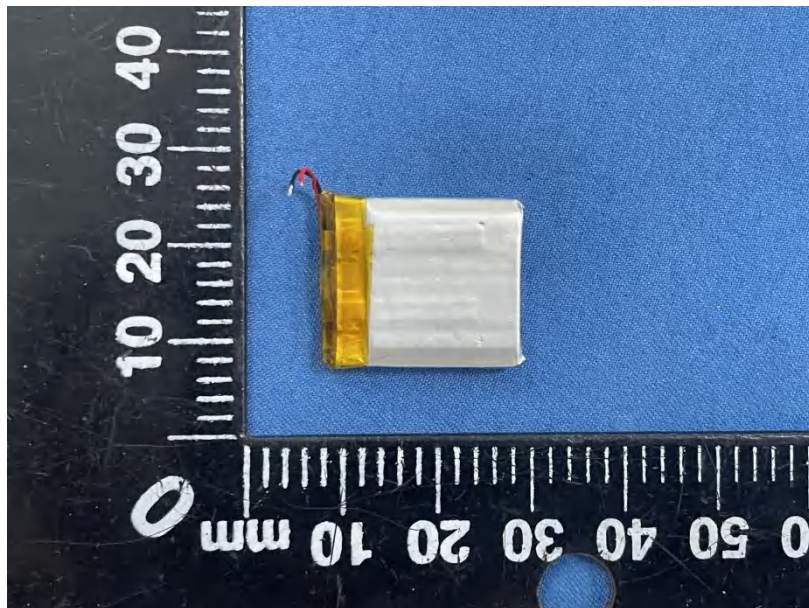
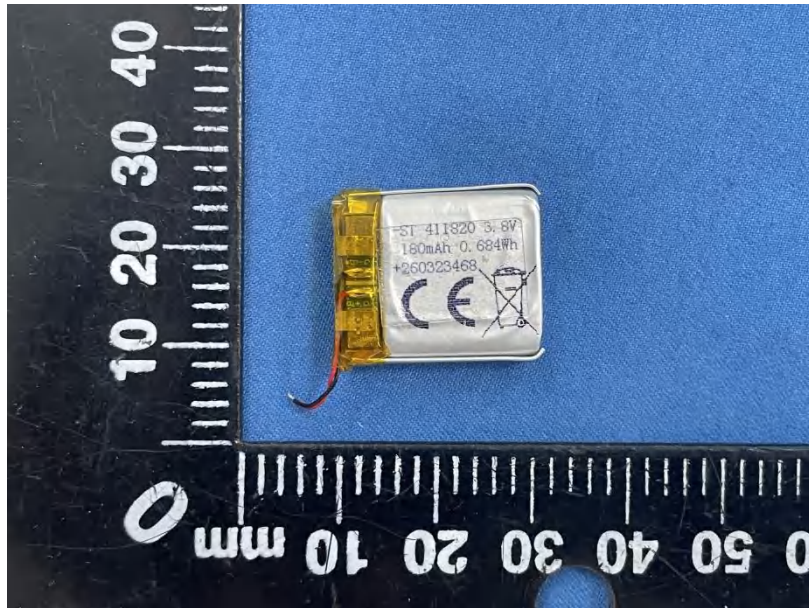












\*\*\*\*\*THE END REPORT\*\*\*\*\*