



Report No.: PTC22111503601E-FC01

FCC TEST REPORT

FCC ID: 2AOPF-433-1

Product : remote control

Model Name : 433-1

Brand : N/A

Report No. : PTC22111503601E-FC01

Prepared for

Terry Electronics Technology Company Limited
2/F, Building D, Dingfeng Technology Park, Shuitian Community, Shiyao Town, Baoan
District, Shenzhen, Guangdong

Prepared by

Precise Testing & Certification Co., Ltd
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China



1. TEST RESULT CERTIFICATION

Applicant's name : Terry Electronics Technology Company Limited

Address : 2/F, Building D, Dingfeng Technology Park, Shuitian Community, Shiyan Town, Baoan District, Shenzhen, Guangdong

Manufacture's name : SHENZHEN XINDAJING ELECTRONICS CO., LTD

Address : 2F, Xingyongfeng industrial park, NO.49 Yangtaishan road, Liguang community, Shiyan street, Baoan District, Shenzhen

Product : remote control

Model : 433-1

Standards : FCC CFR47 Part 15 Section 15.231

Test procedure : ANSI C63.10:2013

Test Date : Nov. 20, 2022 to Dec. 06, 2022

Date of Issue : Dec. 15, 2022

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Testing Engineer:

A handwritten signature in black ink that reads 'Simon Pu'.

Simon Pu/ Engineer

Technical Manager:

A handwritten signature in black ink that appears to read 'Ronnie Liu'.

Ronnie Liu/ Manager



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2 Test Summary

| Test Items | Test Requirement | Result |
|--------------------------------|----------------------------------|--------|
| Conducted Emissions | 15.207 | N/A |
| Radiated Emission | 15.231(a) 15.209 15.205(a) | PASS |
| Periodic Operation | 15.35(c) | PASS |
| Outside of Band Emission | 15.231(a) 15.205 15.209 | PASS |
| 20dB Bandwidth | 15:215(c) | PASS |
| Antenna Requirement | 15.203 | PASS |
| Remark: N/A: Not Applicable | | |



3 General Information

3.1 General Description of E.U.T.

| | | |
|----------------------|---|-------------------------------------------|
| Product Name | : | remote control |
| Model Name | : | 433-1 |
| Operation Frequency | : | 433.92MHz |
| Number of Channel | : | 1 |
| Type of Modulation | : | FSK |
| Antenna installation | : | Internal PCB Antenna |
| Antenna Gain | : | 0 dBi |
| Power supply | : | DC 3V Battery |
| Hardware Version | : | V1.0 |
| Software Version | : | V1.0 |
| Test sample No. | : | PTC22111503601E-1/2, PTC22111503601E-2/2. |

3.2 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

| Modulation | Test mode | Low channel | Middle channel | High channel |
|------------|------------------------------|-------------|----------------|--------------|
| GFSK | continuously Transmitting | 433.92MHz | \ | \ |

3.3 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



4 Equipment During Test

4.1 Equipments List

| Radiated Emissions | | | | | | | |
|--------------------|---------------------------|-----------------|-----------|------------|------------------|------------------|--------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
| 1 | EMI Test Receiver | Rohde & Schwarz | ESCI | 101417 | July 15, 2022 | July 14, 2023 | 1 year |
| 2 | EMC Analyzer (9k~26.5GHz) | Agilent | E4407B | MY45109572 | Aug.04, 2022 | Aug.03, 2023 | 1 year |
| 3 | Trilog Broadband Antenna | SCHWARZBECK | VULB9160 | 9160-3355 | July 15, 2022 | July 14, 2023 | 1 year |
| 4 | Amplifier | EM | EM-30180 | 060538 | July 15, 2022 | July 14, 2023 | 1 year |
| 5 | Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-1246 | July 15, 2021 | July 14, 2023 | 1 year |
| 6 | Coaxial Cable(below 1GHz) | LARGE | CALB1 | - | July 15, 2022 | July 14, 2023 | 1 year |
| 7 | Coaxial Cable(above 1GHz) | LARGE | CALB2 | - | July 15, 2022 | July 14, 2023 | 1 year |
| 8 | Loop Antenna | Schwarzbeck | FMZB 1519 | 012 | Aug.22, 2022 | Aug.21, 2023 | 1 year |
| 9 | Test S/W | Tonscend | JS1120-3 | / | / | / | / |

4.2 Measurement Uncertainty

| Parameter | Uncertainty |
|------------------------------------|--------------------------|
| RF output power, conducted | ±1.0dB |
| Power Spectral Density, conducted | ±2.2dB |
| Radio Frequency | ± 1 x 10 ⁻⁶ |
| Bandwidth | ± 1.5 x 10 ⁻⁶ |
| Time | ±2% |
| Duty Cycle | ±2% |
| Temperature | ±1°C |
| Humidity | ±5% |
| DC and low frequency voltages | ±3% |
| Conducted Emissions (150kHz~30MHz) | ±3.64dB |
| Radiated Emission(9kHz~30MHz) | ±3.15dB |



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| | |
|-------------------------------|---------|
| Radiated Emission(30MHz~1GHz) | ±5.03dB |
| Radiated Emission(1GHz~25GHz) | ±4.74dB |

5 Conducted Emission

| | |
|-------------------|-------------------------------------|
| Test Requirement: | : FCC CFR 47 Part 15 Section 15.207 |
| Test Method | : ANSI C63.10: 2013 |
| Test Result | : PASS |
| Frequency Range | : 150kHz to 30MHz |
| Class/Severity | : Class B |

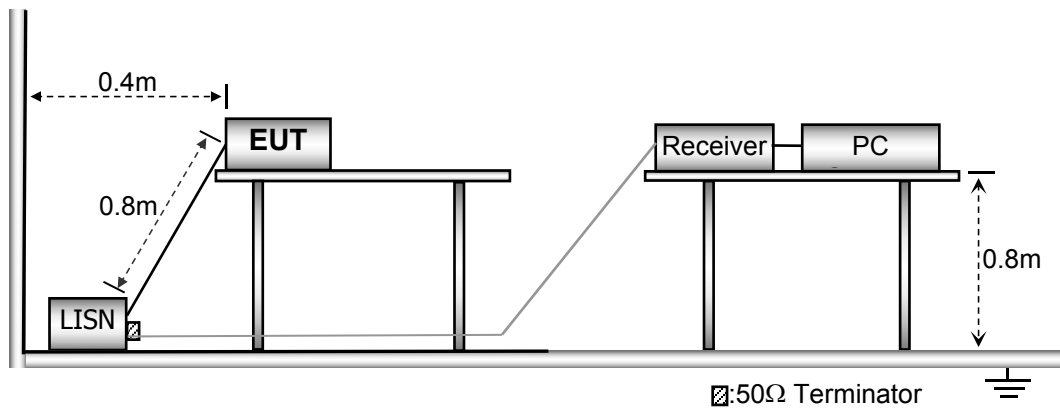
5.1 E.U.T. Operation

Operating Environment :

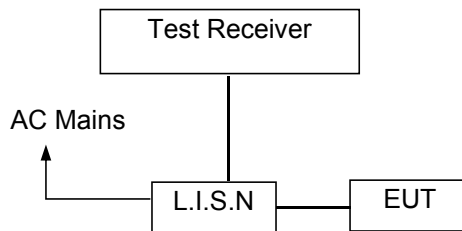
| | |
|----------------------|-------------|
| Temperature | : 23.9 °C |
| Humidity | : 51.4 % RH |
| Atmospheric Pressure | : 101.21kPa |

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

| Frequency(MHz) | Quasi-peak | Average |
|----------------|------------|---------|
| 0.15-0.5 | 66-56 | 56-46 |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

5.7 Conducted Emission Test Result

N/A

Note: Powered by non-rechargeable lithium cell.



6 Periodic Operation

The duty cycle was determined by the following equation:

To calculate the actual field intensity, the duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

Duty Cycle(%)=Total On interval in a complete pulse train/ Length of a complete pulse train * %

Duty Cycle Correction Factor (dB)=20 * Log₁₀(Duty Cycle(%))

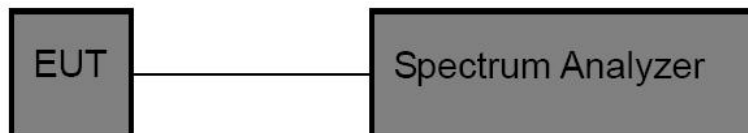
| | |
|----------------------------------------------|-----------------------|
| Total transmission time(ms) | 0.74*16+0.29*25=19.09 |
| Length of a complete transmission period(ms) | 40.72 |
| Duty Cycle(%) | 37.92 |
| Duty Cycle Correction Factor(dB) | -7.8 |

Refer to the duty cycle plot (as below), This device meets the FCC requirement.

Length of a complete pulse train:

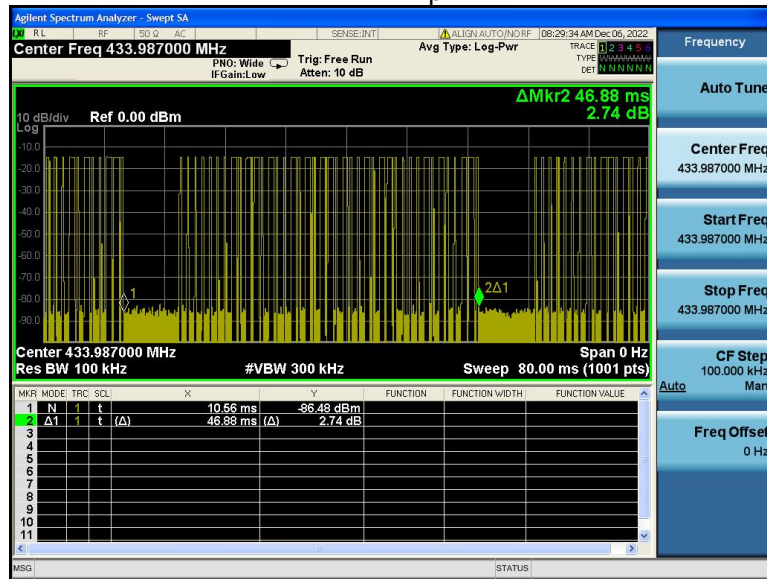
Remark: FCC part15.35(c) required that a complete pulse train is more than 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

Test Setup:

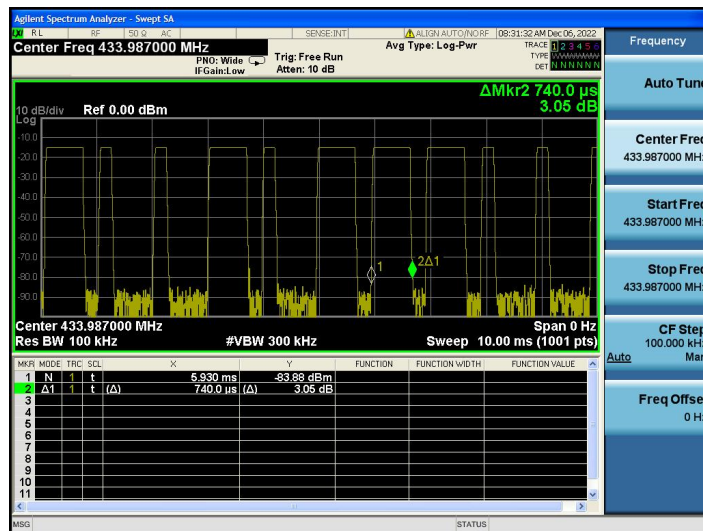




Tp

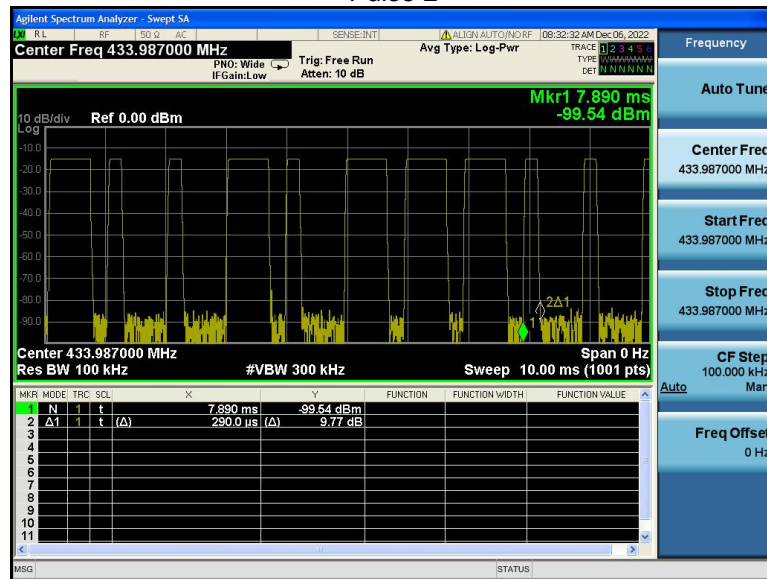


Pulse 1



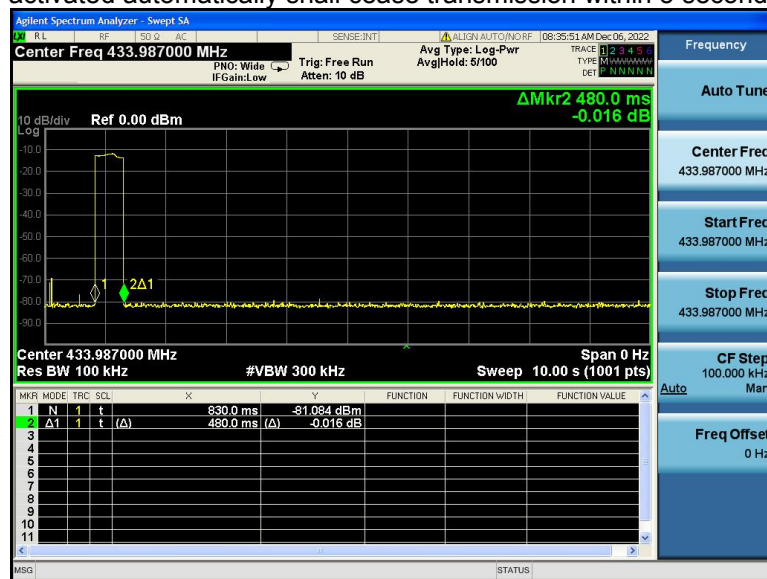


Pulse 2



FCC Part15.231 (a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

(2)A transmitter activated automatically shall cease transmission within 5 seconds after activation.





7 Radiated Spurious Emissions

Test Requirement: : FCC CFR47 Part 15 Section 15.231 & 15.207 & 15.205
 Test Method: : ANSI C63.10:2013
 Test Result: : PASS
 Measurement Distance: : 3m
 Limit: : See the follow table

| Frequency (MHz) | Field Strength | | Field Strength Limit at 3m Measurement Dist | |
|-----------------|-----------------------|--------------|---------------------------------------------|---------------------------------------|
| | uV/m | Distance (m) | uV/m | dBuV/m |
| 0.009 ~ 0.490 | $2400/F(\text{kHz})$ | 300 | $10000 * 2400/F(\text{kHz})$ | $20\log^{(2400/F(\text{kHz}))} + 80$ |
| 0.490 ~ 1.705 | $24000/F(\text{kHz})$ | 30 | $100 * 24000/F(\text{kHz})$ | $20\log^{(24000/F(\text{kHz}))} + 40$ |
| 1.705 ~ 30 | 30 | 30 | $100 * 30$ | $20\log^{(30)} + 40$ |
| 30 ~ 88 | 100 | 3 | 100 | $20\log^{(100)}$ |
| 88 ~ 216 | 150 | 3 | 150 | $20\log^{(150)}$ |
| 216 ~ 960 | 200 | 3 | 200 | $20\log^{(200)}$ |
| Above 960 | 500 | 3 | 500 | $20\log^{(500)}$ |

In addition to the provisions of § 15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

| Fundamental frequency (MHz) | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|-----------------------------|--------------------------------------------------|---------------------------------------------------------|
| 40.66-40.70 | 2,250 | 225 |
| 70-130 | 1,250 | 125 |
| 130-174 | 1,250 to 3,750 | 125 to 375 |
| 174-260 | 3,750 | 375 |
| 260-470 | 3,750 to 12,500 | 375 to 1250 |
| Above 470 | 12,500 | 1,250 |

Note: Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.



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7.1 EUT Operation

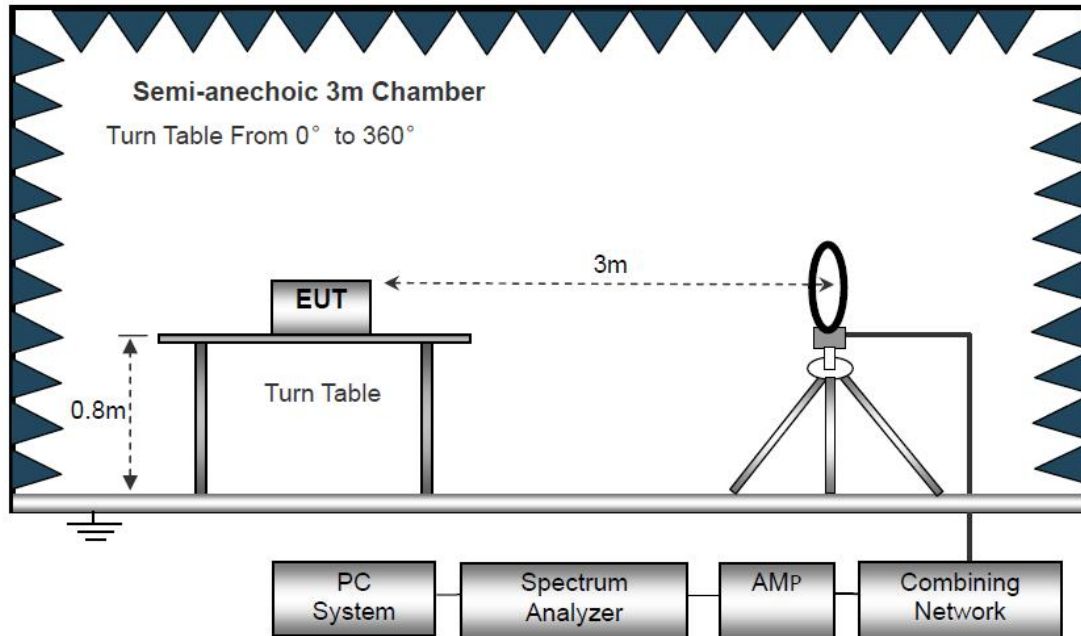
Operating Environment :

| | | |
|-----------------------|---|----------------------|
| Temperature: | : | 23.5 °C |
| Humidity: | : | 51.1 % RH |
| Atmospheric Pressure: | : | 101.2kPa |
| EUT Operation : | : | Refer to section 3.3 |

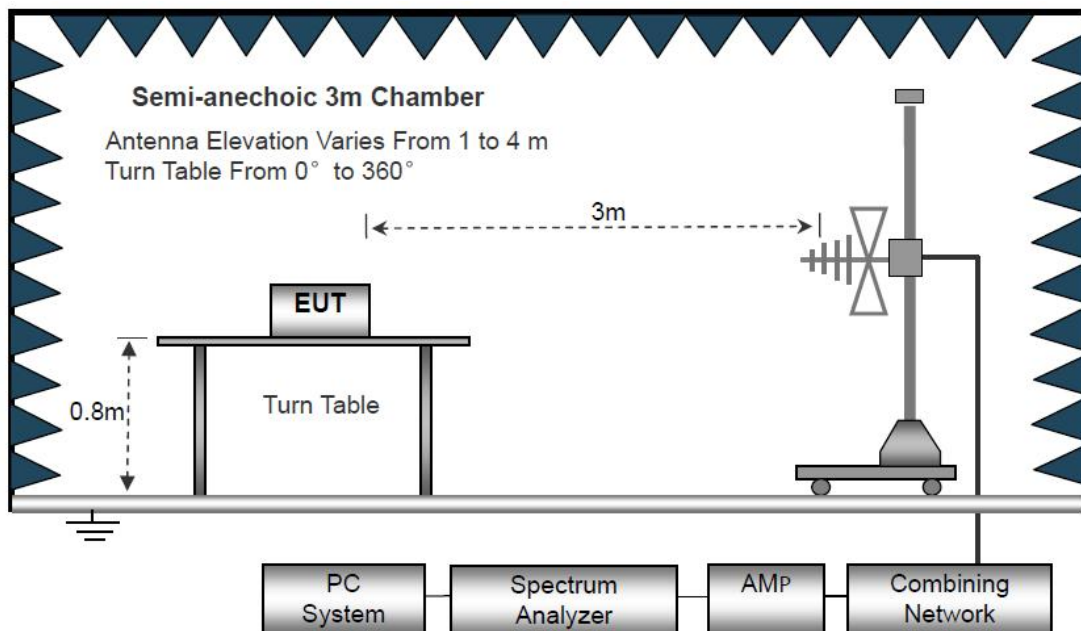
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

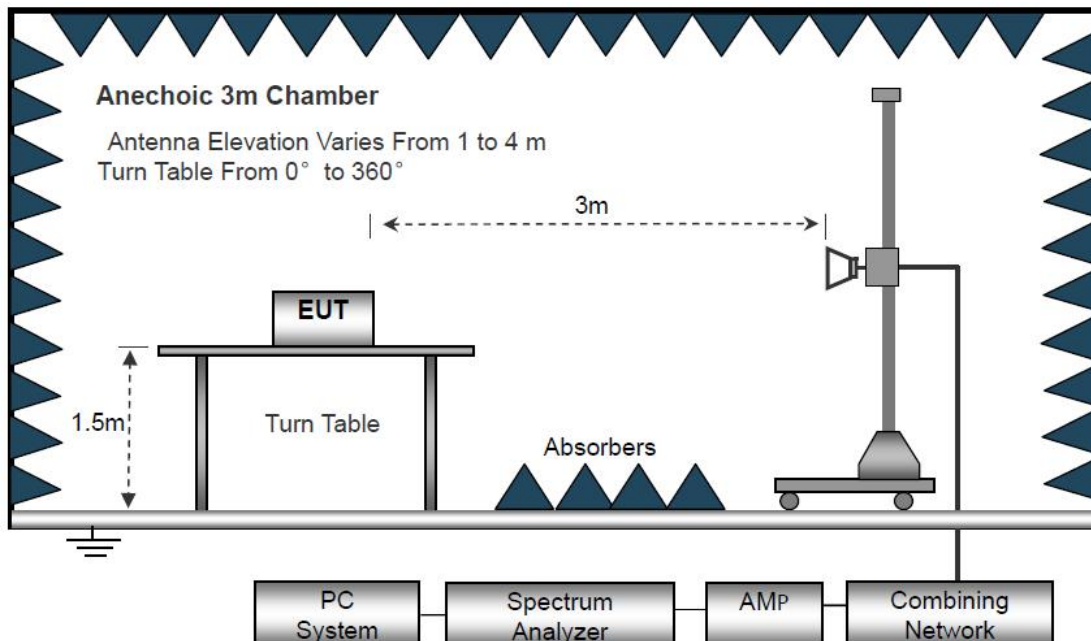
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz



7.3 Spectrum Analyzer Setup

Below 30MHz

| | |
|----------------------|-------|
| IF Bandwidth | 10kHz |
| Resolution Bandwidth | 10kHz |
| Video Bandwidth | 10kHz |

30MHz ~ 1GHz

| | |
|----------------------|----------|
| Detector | : PK |
| Resolution Bandwidth | : 100kHz |
| Video Bandwidth | : 300kHz |
| Detector | : QP |
| Resolution Bandwidth | : 120kHz |
| Video Bandwidth | : 300kHz |

Above 1GHz

| | |
|----------------------|--------|
| Detector | : PK |
| Resolution Bandwidth | : 1MHz |
| Video Bandwidth | : 3MHz |
| Detector | : AV |
| Resolution Bandwidth | : 1MHz |
| Video Bandwidth | : 10Hz |



7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m or 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



7.5 Summary of Test Results

Test Frequency: Below 30MHz

The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test Frequency: 30MHz ~ 5GHz

All applicable test modes have been tested with TX mode(433.92MHz)

Test Result of Fundamental Emission:

| Frequency (MHz) | Factor (dB) | Reading (dBuV) | Peak Value (dBμV/m) | PDCF | Average value (dBuV/m) | Average Limit (dBμV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------|----------------|---------------------|------|------------------------|------------------------|-----------------|--------------|
| 433.92 | 12.32 | 81.62 | 69.30 | -7.8 | 61.50 | 80.8 | -19.30 | H |
| 433.92 | 12.32 | 83.34 | 71.02 | -7.8 | 63.22 | 80.8 | -17.58 | V |

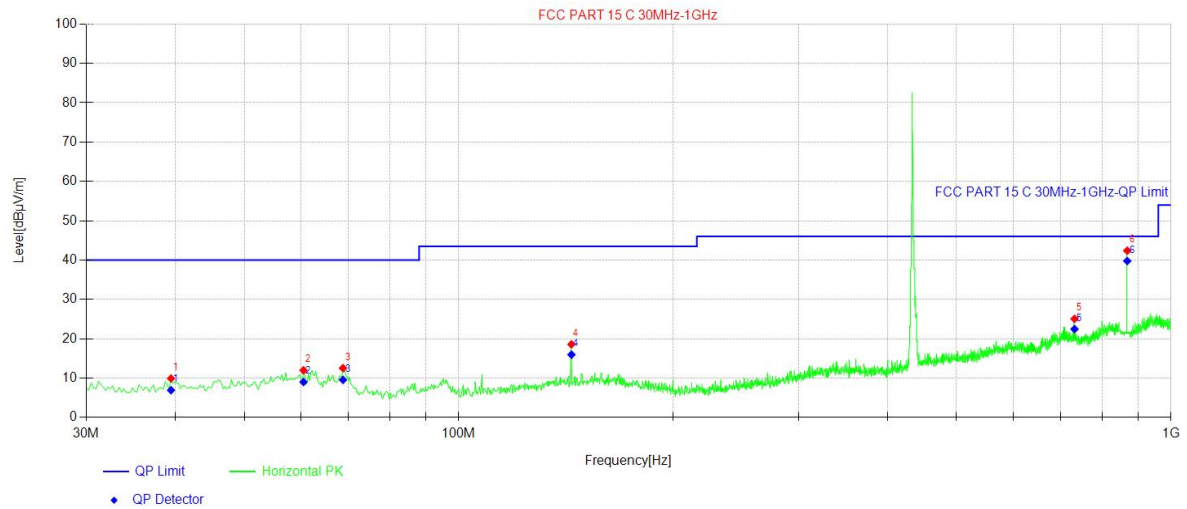
Note: PDCF is the abbreviation of duty cycle factor , DCF= 20 log(Duty cycle).



Test Result of Spurious Emissions:

Blow 1GHz:

Antenna Polarization: Horizontal

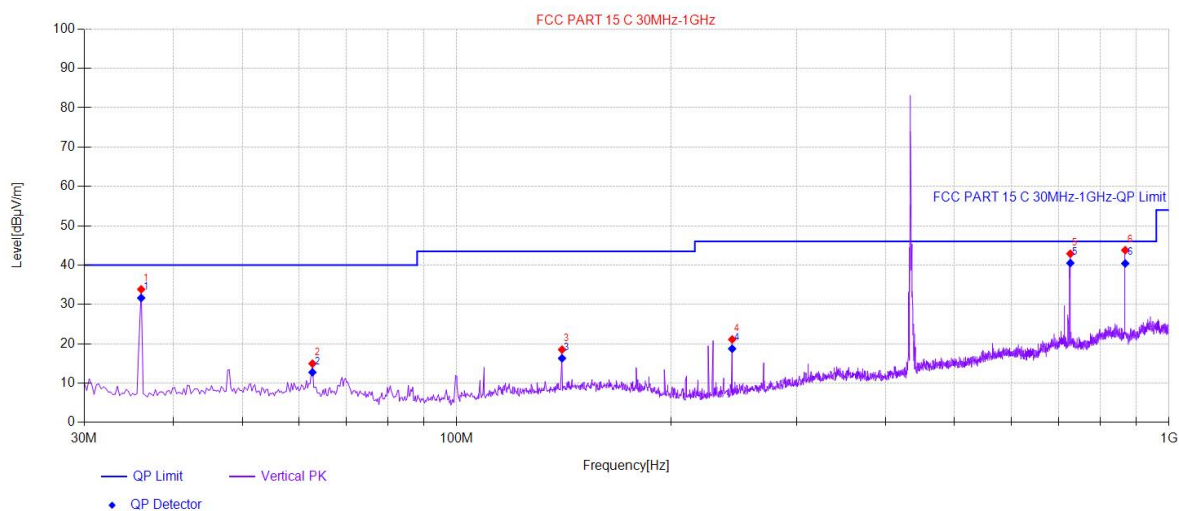


Final Data List[QP]

| NO. | Freq. [MHz] | QP Reading [dBμV/m] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity |
|-----|----------------|---------------------------|----------------|----------------------|----------------------|-------------------|------------|
| 1 | 39.46 | 24.75 | -17.82 | 6.93 | 40.00 | 33.07 | Horizontal |
| 2 | 60.56 | 26.89 | -17.88 | 9.01 | 40.00 | 30.99 | Horizontal |
| 3 | 68.80 | 28.62 | -19.06 | 9.56 | 40.00 | 30.44 | Horizontal |
| 4 | 143.98 | 32.43 | -16.46 | 15.97 | 43.50 | 27.53 | Horizontal |
| 5 | 732.04 | 28.32 | -5.86 | 22.46 | 46.00 | 23.54 | Horizontal |
| 6 | 868.08 | 43.17 | -3.40 | 39.77 | 46.00 | 6.23 | Horizontal |

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor

Antenna Polarization: Vertical



Final Data List[QP]

| NO. | Freq. [MHz] | QP Reading [dBμV/m] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Polarity |
|-----|----------------|---------------------------|----------------|----------------------|----------------------|-------------------|----------|
| 1 | 36.79 | 41.11 | -18.11 | 23.00 | 40.00 | 17.00 | Vertical |
| 2 | 91.11 | 36.83 | -20.58 | 16.25 | 43.50 | 27.25 | Vertical |
| 3 | 170.17 | 35.88 | -16.31 | 19.57 | 43.50 | 23.93 | Vertical |
| 4 | 216.97 | 42.48 | -18.35 | 24.13 | 46.00 | 21.87 | Vertical |
| 5 | 651.04 | 36.81 | -7.37 | 29.44 | 46.00 | 16.56 | Vertical |
| 6 | 868.08 | 42.05 | -3.40 | 38.65 | 46.00 | 7.35 | Vertical |

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor



Above 1GHz:

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | PDCF | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Detector |
|-----|-------------|----------------|-------------|------|----------------|----------------|-------------|--------|----------|----------|
| 1 | 1301.76 | 52.36 | -11.6 | / | 40.76 | 74 | 33.24 | PASS | H | AV |
| 2 | 1735.68 | 55.42 | -7.98 | / | 47.44 | 74 | 26.56 | PASS | H | AV |
| 3 | 2169.6 | 52.49 | -6.99 | / | 45.5 | 74 | 28.5 | PASS | H | AV |
| 4 | 2603.52 | 55.75 | -4.31 | / | 51.44 | 74 | 22.56 | PASS | H | AV |
| 5 | 3037.44 | 50.92 | -3.5 | / | 47.42 | 74 | 26.58 | PASS | H | AV |
| 6 | 3471.36 | 51.25 | -0.38 | / | 50.87 | 74 | 23.13 | PASS | H | AV |
| 7 | 1301.76 | 58.22 | -11.6 | / | 46.62 | 74 | 27.38 | PASS | V | AV |
| 8 | 1735.68 | 54.70 | -7.98 | / | 46.72 | 74 | 27.28 | PASS | V | AV |
| 9 | 2169.6 | 55.35 | -6.99 | / | 48.36 | 74 | 25.64 | PASS | V | AV |
| 10 | 2603.52 | 51.99 | -4.07 | / | 47.92 | 74 | 26.08 | PASS | V | AV |
| 11 | 3037.44 | 49.79 | -1.91 | / | 47.88 | 74 | 26.12 | PASS | V | AV |
| 12 | 3471.36 | 49.18 | 1.25 | / | 50.43 | 74 | 23.57 | PASS | V | AV |

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | PDCF | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Detector |
|-----|-------------|----------------|-------------|-------|----------------|----------------|-------------|--------|----------|----------|
| 1 | 1301.76 | 52.36 | -11.6 | -7.80 | 32.96 | 54 | 21.04 | PASS | H | AV |
| 2 | 1735.68 | 55.42 | -7.98 | -7.80 | 39.64 | 54 | 14.36 | PASS | H | AV |
| 3 | 2169.6 | 52.49 | -6.99 | -7.80 | 37.70 | 54 | 16.3 | PASS | H | AV |
| 4 | 2603.52 | 55.75 | -4.31 | -7.80 | 43.64 | 54 | 10.36 | PASS | H | AV |
| 5 | 3037.44 | 50.92 | -3.5 | -7.80 | 39.62 | 54 | 14.38 | PASS | H | AV |
| 6 | 3471.36 | 51.25 | -0.38 | -7.80 | 43.07 | 54 | 10.93 | PASS | H | AV |
| 7 | 1301.76 | 58.22 | -11.6 | -7.80 | 38.82 | 54 | 15.18 | PASS | V | AV |
| 8 | 1735.68 | 54.70 | -7.98 | -7.80 | 38.92 | 54 | 15.08 | PASS | V | AV |
| 9 | 2169.6 | 55.35 | -6.99 | -7.80 | 40.56 | 54 | 13.44 | PASS | V | AV |
| 10 | 2603.52 | 51.99 | -4.07 | -7.80 | 40.12 | 54 | 13.88 | PASS | V | AV |
| 11 | 3037.44 | 49.79 | -1.91 | -7.80 | 40.08 | 54 | 13.92 | PASS | V | AV |
| 12 | 3471.36 | 49.18 | 1.25 | -7.80 | 42.63 | 54 | 11.37 | PASS | V | AV |

Remark:

1. The field strength is calculated by adding the Antenna Factor, Cable Factor and Preamplifier.

The formula is as follows is as follows:

Final Test Level = Receiver Reading + Correct Factor



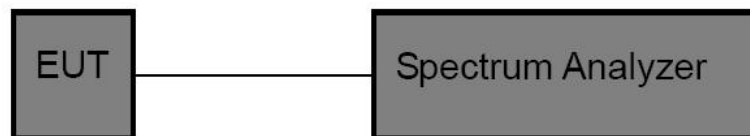
8 20dB Bandwidth Measurement

| | | |
|------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | : | FCC Part15.231(c) |
| Test Method | : | FCC Part15.231(c) |
| Test Mode | : | Refer to section 3.3 |
| Limit | : | The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. |

8.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1 kHz, VBW = 3 kHz,

8.2 Test Setup





8.3 Test Result

| Test Frequency (MHz) | Bandwidth (kHz) | Limit (kHz) | Result |
|----------------------|-----------------|-------------|--------|
| 433.92 | 30.989 | 1084.80 | pass |

Test plots



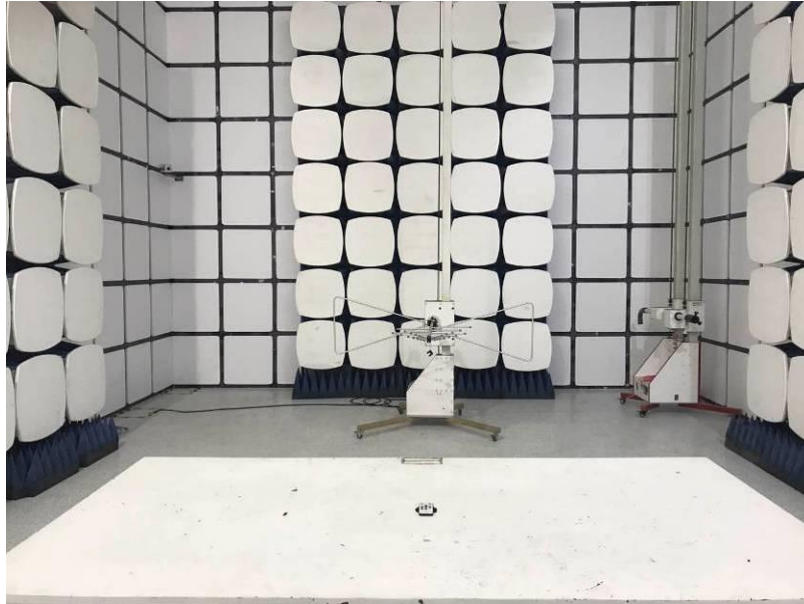


9 Antenna Requirement

The EUT'S antenna, permanent attached antenna, is internal PCB antenna. The antenna's gain is 0dBi and meets the requirement.

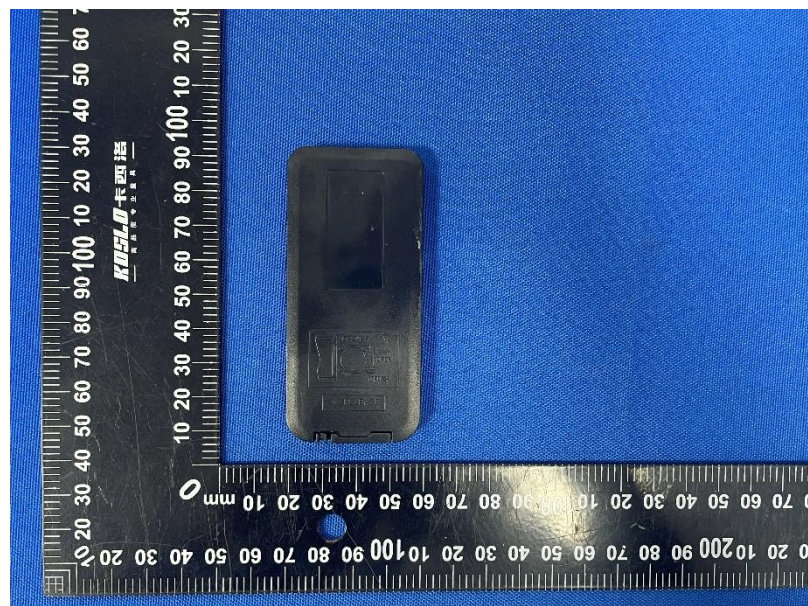
10 Test Setup

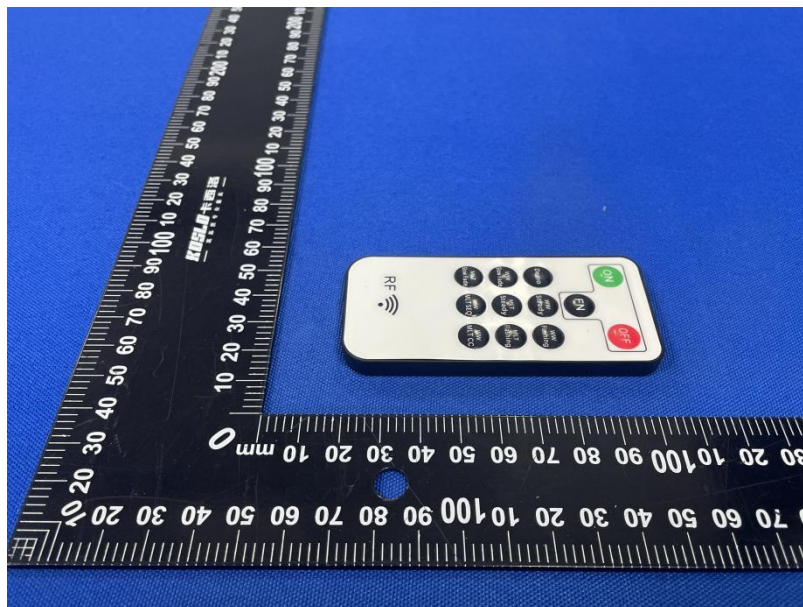
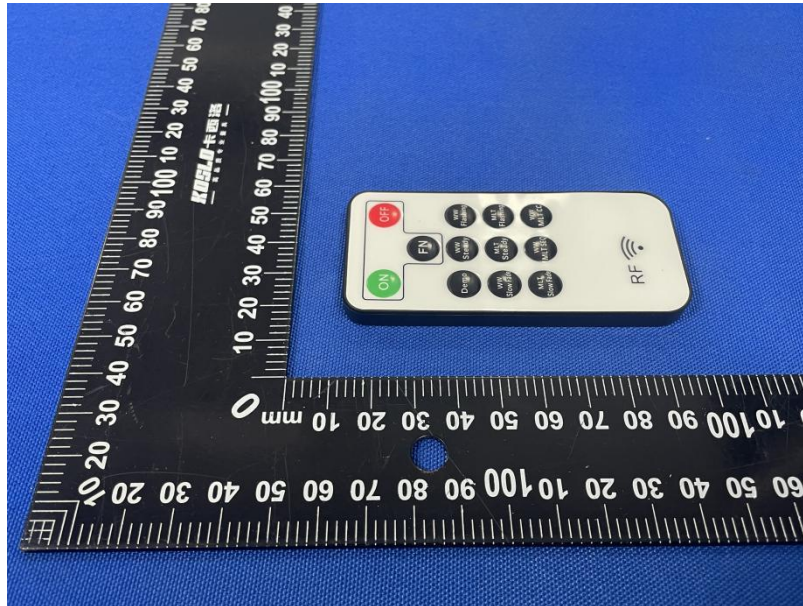
Radiated Spurious Emissions
From 30MHz-1000MHz

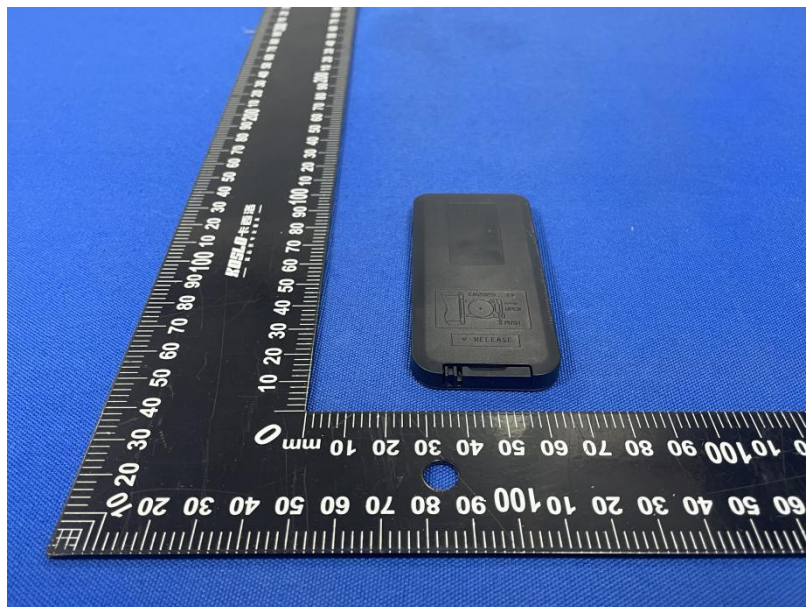


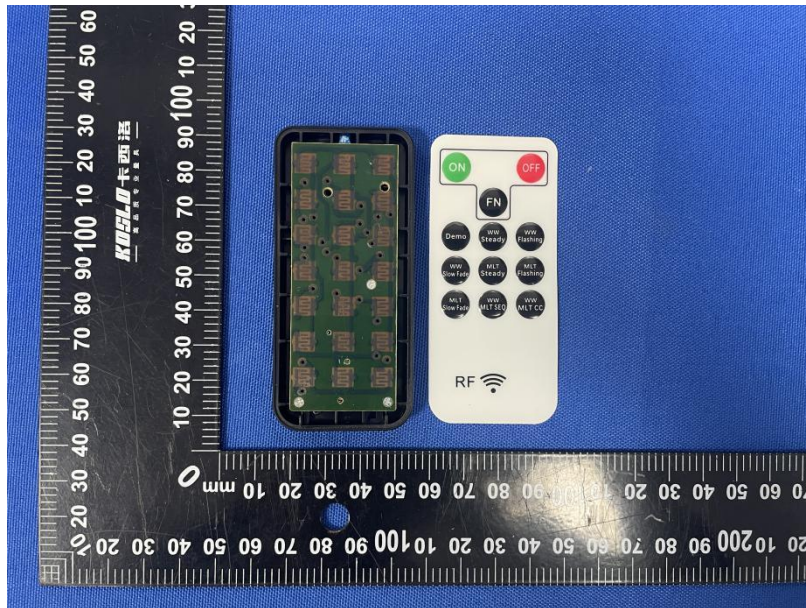
Test frequency from 1GHz

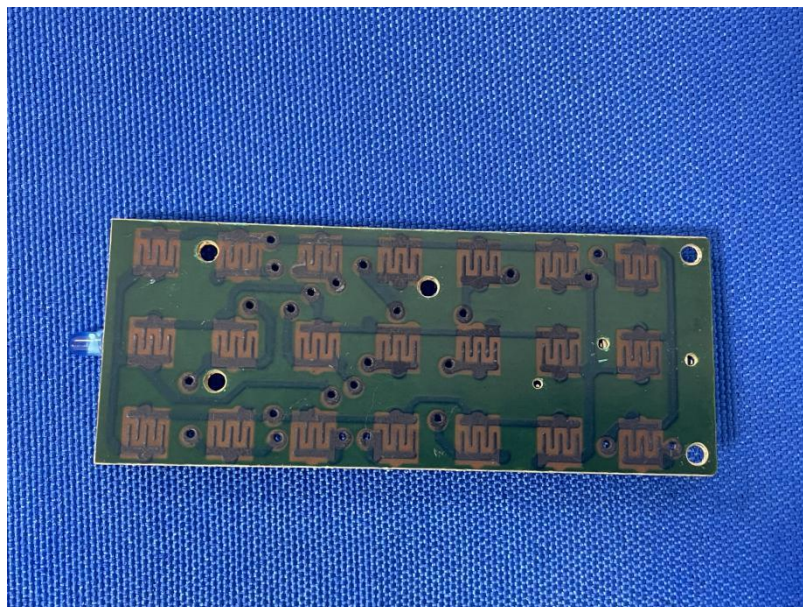
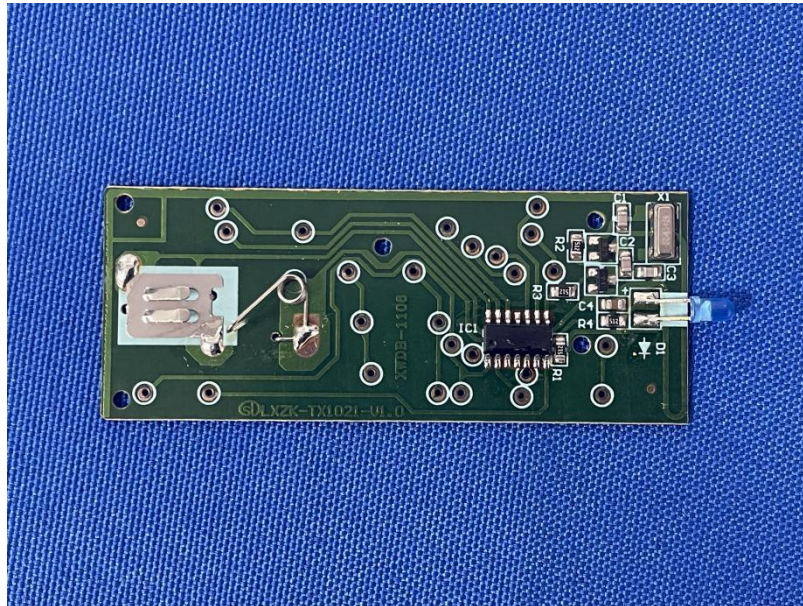












*****THE END REPORT*****