

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Good Sportsman Marketing, LLC

Fred Eichler Remote

Model Number: WRC-EGC-DSR

Additional Model: WRC-EGC-SSR

FCC ID: 2AU3A-EGC01B

|              |   |
|--------------|---|
| Applicant:   | Good Sportsman Marketing, LLC                                       |
| Address:     | 5250 Frye Rd, Irving, Texas 75061, United States                    |
|              |   |
| Prepared By: | EST Technology Co., Ltd.  |
|              | Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China |
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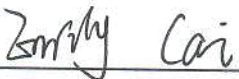
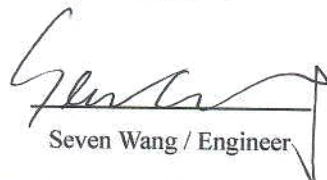

|                 |                  |
|-----------------|------------------|
| Report Number:  | ESTE-R2209167    |
| Date of Test:   | Sep. 05-29, 2022 |
| Date of Report: | Sep. 30, 2022    |

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## EST Technology Co., Ltd.

|   |   |  |                  |
|---|---|--|------------------|
| <b>Applicant:</b>   | Good Sportsman Marketing, LLC   |  |                  |
| <b>Address:</b>   | 5250 Frye Rd, Irving, Texas 75061, United States  |  |                  |
| <b>Manufacturer:</b>  | DongGauN Southstar Electronics Limited  |  |                  |
| <b>Address:</b>   | No.305 South Kangle Road, Houjie Town Dongguan City, Guangdong Province,China   |  |                  |
| <b>Factory:</b>   | DongGauN Southstar Electronics Limited  |  |                  |
| <b>Address:</b>   | No.305 South Kangle Road, Houjie Town Dongguan City, Guangdong Province,China   |  |                  |
| <b>E.U.T:</b>   | Fred Eichler Remote   |  |                  |
| <b>Model Number:</b>  | WRC-EGC-DSR   |  |                  |
| <b>Additional Model:</b>  | WRC-EGC-SSR   |  |                  |
| <b>Power Supply:</b>  | DC 6V From Battery  |  |                  |
| <b>Trade Name:</b>  | Western Rivers  | <b>Serial No.:</b>   | -----            |
| <b>Date of Receipt:</b>   | Sep. 05, 2022   | <b>Date of Test:</b>   | Sep. 05-29, 2022 |
| <b>Test Specification:</b>  | FCC Part 15 Subpart C (15.231)<br>ANSI C63.10:2013  |  |                  |
| <b>Test Result:</b>   | <p>The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p style="text-align: center;">This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p> |  |                  |
| <b>Prepared by:</b>   | <b>Reviewed by:</b>   | <b>Date:</b> Sep. 30, 2022   |                  |
| <br>_____<br>Emily Cai / Assistant   | <br>_____<br>Seven Wang / Engineer   | <b>Approved by:</b><br><br>_____<br>Iceman Hu / Manager |                  |
| <b>Other Aspects:</b>   | None.   |  |                  |
| Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested   |   |  |                  |
| This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. |   |  |                  |

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                               |   |                      |
|-------------------------------|---|----------------------|
| Product Name                  | : | Fred Eichler Remote  |
| Model Number                  | : | WRC-EGC-DSR          |
| Software Version              | : | N/A                  |
| Hardware Version              | : | N/A                  |
| Operation frequency           | : | 433.92MHz            |
| Number of channel             | : | 1                    |
| Field Strength of Fundamental | : | 85.14dB $\mu$ V/m@3m |
| Modulation Type               | : | GFSK                 |
| Sample Type                   | : | Prototype production |

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

### 1.2. Antenna Information

| Ant No. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---------|-------|------------|--------------|-----------|------------|
| 1       | -     | -          | Internal     | -         | 2          |

Note: This information is provided by the applicant.

### 1.3. Information of RF Cable

| Cable Loss(dB) | Provided by                   |
|----------------|-------------------------------|
| 1.0            | Good Sportsman Marketing, LLC |

Note: 1.The customer declared the loss value of the RF Cable, and the test results of this report only apply to the sample as received.  
2.This information is provided by the applicant.

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

| No. | Description of Test Item          | FCC Standard Section | Results |
|-----|-----------------------------------|----------------------|---------|
| 1   | Field Strength of Fundamental     | 15.231(a)            | PASS    |
| 2   | Radiated Spurious Emissions       | 15.209<br>15.231(a)  | PASS    |
| 3   | 20dB Bandwidth                    | 15.231(c)            | PASS    |
| 4   | Duration Time                     | 15.231(a) (1)        | PASS    |
| 5   | AC Power Line Conducted Emissions | 15.207               | N/A     |
| 6   | Antenna Requirement               | 15.203               | PASS    |

Note: "N/A" denotes test is not applicable in this test report.

## 2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA  
Registration No.: L5288  
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA  
Designation Number: CN1215  
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA  
Registration No.: 4366.01  
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada  
CAB identifier No.: CN0035  
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan  
Registration No.: C-14103; T-20073; R-13663;  
R-20103; G-20097  
Date of registration: Apr. 20, 2020  
This Certificate is valid until: Apr. 19, 2023

Certificated by TUV Rheinland, Germany  
Registration No.: UA 50413872 0001  
Date of registration: July 31, 2018

Certificated by Intertek  
Registration No.: 2011-RTL-L2-64  
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,  
Guangdong, China

### 2.3. Measurement uncertainty

| Test Item   | Uncertainty           |
|---|-----------------------|
| Uncertainty for Conduction emission test                | ±3.48dB               |
| Uncertainty for spurious emissions test (Below 30MHz)   | ±1.62 dB              |
| Uncertainty for spurious emissions test (30MHz-1GHz)    | ±4.60 dB(Polarize: H) |
|   | ±4.68 dB(Polarize: V) |
| Uncertainty for spurious emissions test (1GHz to 18GHz) | ±4.96dB               |
| Uncertainty for radio frequency                         | $7 \times 10^{-8}$    |
| Uncertainty for conducted RF Power                      | 1.08dB                |
| Uncertainty for Power density test                      | 0.26dB                |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

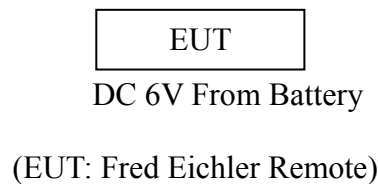
### 2.4. Assistant equipment used for test

| Item | Equipment | Brand | Model Name/Type No. | FCC ID | Series No. |
|------|-----------|-------|---------------------|--------|------------|
| -    | -         | -     | -                   | -      | -          |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| -    | -             | -            | -      | -    |

### 2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into test mode by software before test.





## 2.6. Test Mode

The test mode was selected for the final test as listed below.

| Test Item                     | Test Mode | Test Frequency |
|-------------------------------|-----------|----------------|
| Duty Cycle                    | TX        | 433.92MHz      |
| Field Strength of Fundamental | TX        | 433.92MHz      |
| Radiated Spurious Emissions   | TX        | 433.92MHz      |
| 20dB Bandwidth                | TX        | 433.92MHz      |
| Duration Time                 | TX        | 433.92MHz      |

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.
2. The EUT uses new battery.

## 2.7. Channel List

| Channel | Frequency(MHz) |
|---------|----------------|
| 01      | 433.92         |

## 2.8. Test Equipment List

| For radiated emission test(9kHz-30MHz) |                 |              |            |                  |            |           |
|--|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                              | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| EMI Test Receiver                      | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 13,22 | 1 Year    |
| Active Loop Antenna                    | SCHWARZB ECK    | FMZB 1519B   | EST-E054   | LISAI            | June 13,22 | 1 Year    |
| Test Software                          | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| 9kHz-30MHz Cable                       | N/A             | EST-001      | N/A        | N/A              | N/A        | N/A       |

| For radiated emissions test (30MHz-1000MHz) |                 |              |            |                  |            |           |
|---|-----------------|--------------|------------|------------------|------------|-----------|
| Equipment                                   | Manufacturer    | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| EMI Test Receiver                           | Rohde & Schwarz | ESR7         | EST-E047   | LISAI            | June 13,22 | 1 Year    |
| Bilog Antenna                               | Teseq           | CBL 6111D    | EST-E034   | LISAI            | June 13,22 | 1 Year    |
| Test Software                               | Audix           | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| 30-1000MHz Cable                            | N/A             | EST-002      | N/A        | N/A              | N/A        | N/A       |

| For radiated emission test(Above 1000MHz) |                |              |            |                  |            |           |
|---|----------------|--------------|------------|------------------|------------|-----------|
| Equipment                                 | Manufacturer   | Model No.    | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| Horn Antenna                              | SCHWARZB ECK   | BBHA9120D    | EST-E031   | LISAI            | June 13,22 | 1 Year    |
| Horn Antenna                              | Com-Power      | AHA-840      | EST-E133   | LISAI            | June 13,22 | 1 Year    |
| Signal Amplifier                          | SCHWARZB ECK   | BBV9718      | EST-E032   | LISAI            | June 13,22 | 1 Year    |
| Spectrum Analyzer                         | Rohde &Schwarz | FSV40        | EST-E069   | LISAI            | June 13,22 | 1 Year    |
| Test Software                             | Audix          | e3-6.111221a | N/A        | N/A              | N/A        | N/A       |
| Above 1GHz Cable                          | N/A            | EST-003      | N/A        | N/A              | N/A        | N/A       |

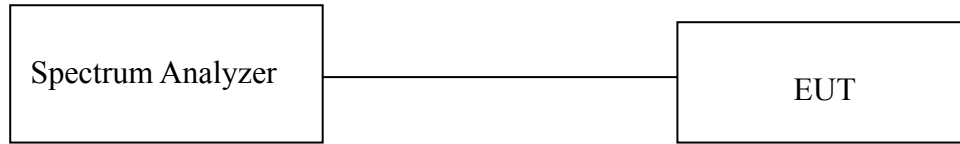
| For connect EUT antenna terminal test |                |           |            |                  |            |           |
|---------------------------------------|----------------|-----------|------------|------------------|------------|-----------|
| Equipment                             | Manufacturer   | Model No. | Serial No. | Calibration Body | Last Cal.  | Next Cal. |
| TS 1120                               | Tonscend       | /         | /          | /                | /          | /         |
| Test Software                         | Tonscend       | TS1120-3  | 3.2.11     | /                | /          | /         |
| RF Control Unit                       | Tonscend       | JS0806-2  | EST-E134   | LISAI            | June 13,22 | 1 Year    |
| Signal and Spectrum Analyzer          | Rohde &Schwarz | FSV 40    | EST-E136   | LISAI            | June 13,22 | 1 Year    |

### 3. DUTY CYCLE

#### 3.1. Limit

N/A

#### 3.2. Test Setup



#### 3.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting   |
|---------------------|---|
| Center Frequency    | Test Frequency  |
| RBW                 | ≥OBW  |
| VBW                 | ≥RBW  |
| Span                | Zero  |
| Sweep Time          | At least one period of the pulse train or over 100 ms |
| Detector            | PEAK  |

#### 3.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
- d. If the pulse train is periodic (i.e., consists of a series of pulses that repeat in a characteristic pattern over a constant time period), and the period (T) is less than or equal to 100 ms, then:
  - 1) Set the TRIGGER on the spectrum analyzer to capture at least one period of the pulse train, including any blanking intervals.
  - 2) Determine the total maximum pulse “ON time” ( $t_{ON}$ ) over one period of the pulse train. If the pulse train contains pulses of different widths, then  $t_{ON}$  is determined by summing the duration of all of the pulses within the pulse train [i.e.,  $t_{ON} = \sum(t_1 + t_2 + \dots t_n)$ ].
  - 3) The duty cycle is then determined by dividing the total maximum “ON time” by the period of the pulse train ( $t_{ON}/T$ ).
- e. If the pulse train is nonperiodic or is periodic with a period that exceeds 100 ms, or as an alternative to step d, then:
  - 1) Set the TRIGGER on the spectrum analyzer to capture the greatest amount of pulse “ON time” over 100 ms.
  - 2) Find the 100 ms period that contains the maximum “on time”; this may require summing the duration of multiple pulses as described in step d 2).
  - 3) Determine the duty cycle by dividing the total maximum “ON time” by 100 ms ( $t_{ON}/100$  ms).
- f. Determine the duty cycle correction factor by below Equation to the duty cycle determined in the preceding steps.

$$\delta(\text{dB}) = 20\log(\Delta)$$

where

$\delta$  is the duty cycle correction factor (dB)

$\Delta$  is the duty cycle (dimensionless)

### 3.5. Test Conditions

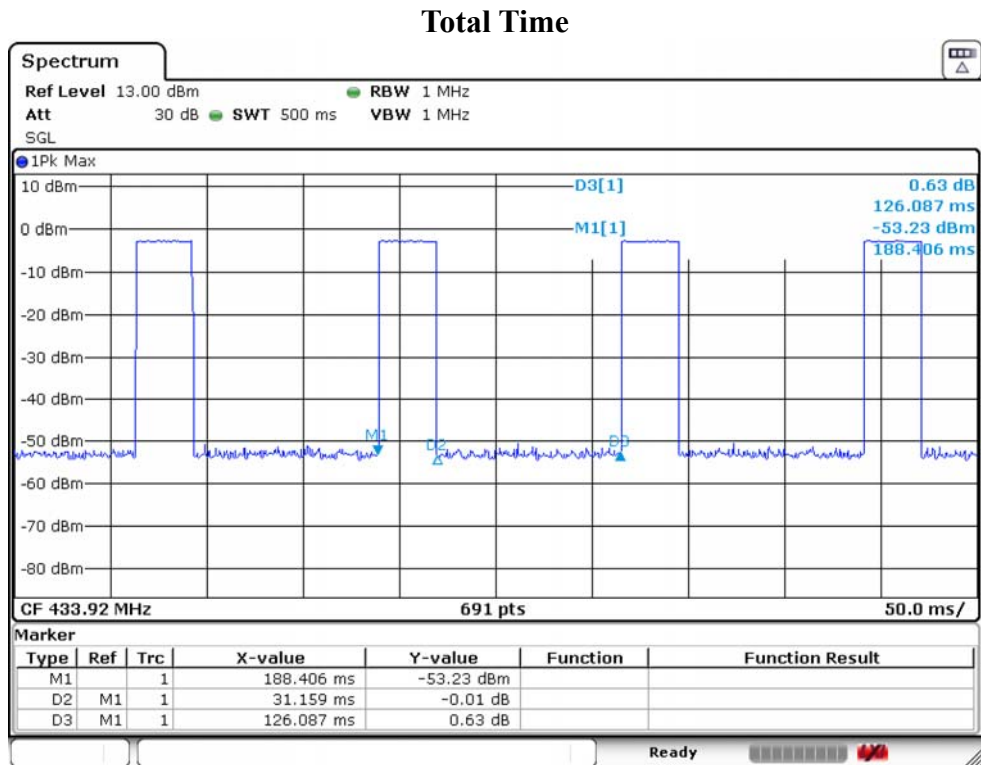
|             |        |                   |       |              |       |
|-------------|--------|-------------------|-------|--------------|-------|
| Temperature | 21.5°C | Relative Humidity | 51.1% | Test Voltage | DC 6V |
|-------------|--------|-------------------|-------|--------------|-------|

### 3.6. Test Result

|                      |              |                 |                |                                   |
|----------------------|--------------|-----------------|----------------|-----------------------------------|
| Test Frequency (MHz) | On Time (ms) | Total Time (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
| 433.92               | 31.16        | 100             | 31.159         | -10.13                            |

Note:

- $T_{ON\ time} = t_{on\ 1} \times N_{Burst\ 1} + t_{on\ 2} \times N_{Burst\ 2} + \dots + t_{on\ n} \times N_{Burst\ n}$   
 $N_{Burst\ n}$  is the number of Burst n in one period or 100ms
- Duty Cycle = (On Time / Total Time) \* 100%
- Duty Cycle Correction Factor =  $20 \times \text{LOG}(\text{Duty Cycle})$



## 4. FIELD STRENGTH OF FUNDAMENTAL

### 4.1. Limit

| Fundamental frequency (MHz)        | Field strength of fundamental@3m (microvolts/meter) |
|------------------------------------|---|
| 40.66-40.70                        | 2,250   |
| 70-130                             | 1,250   |
| 130-174                            | <sup>1</sup> 1,250 to 3,750                         |
| 174-260                            | 3,750   |
| 260-470                            | <sup>1</sup> 3,750 to 12,500                        |
| Above 470                          | 12,500  |
| <sup>1</sup> Linear interpolations |   |

The EUT fundamental frequency is 433.92MHz, So the Average Limit & Peak Limit is show in below table:

| Fundamental frequency (MHz) | Field strength of fundamental@3m (dBμV/m) |            |
|-----------------------------|---|------------|
|                             | Average Limit                             | Peak Limit |
| 433.92                      | 80.83                                     | 100.83     |

Note:

- According to ANSI C63.10:2013 section 7.6.2:  
The effective limit at the frequency of interest is found by linearly interpolating using the familiar slope-intercept formula,  $y = mx + b$ , rewritten as in Equation:

$$\text{Limit}[\mu\text{V/m}] = \text{Lim}_{\text{lower}} + \Delta F \left[ \frac{(\text{Lim}_{\text{upper}} - \text{Lim}_{\text{lower}})}{(f_{\text{upper}} - f_{\text{lower}})} \right]$$

where

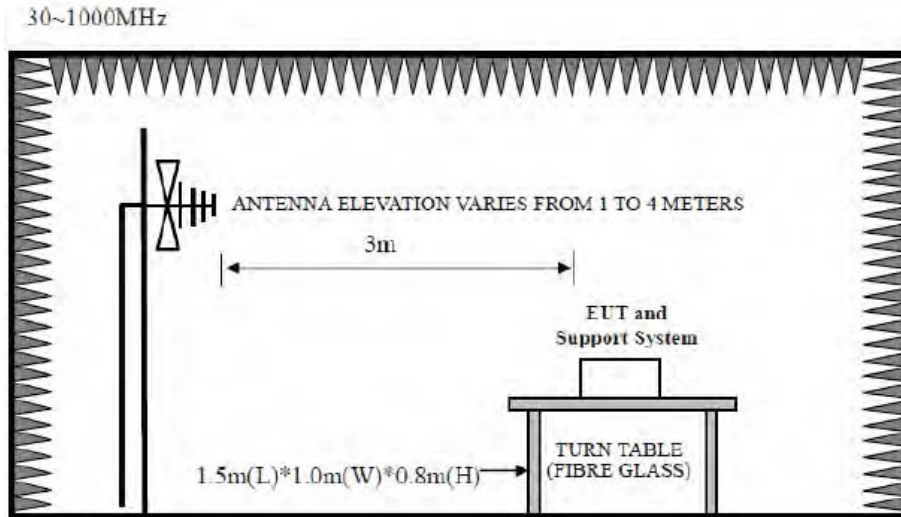
- $\text{Lim}_{\text{lower}}$  is the limit at the lower frequency of the intended band of operation
- $\text{Lim}_{\text{upper}}$  is the limit at the upper frequency of the intended band of operation
- $f_{\text{lower}}$  is the lower frequency of the intended band of operation
- $f_{\text{upper}}$  is the upper frequency of the intended band of operation
- $\Delta F$  equals  $f_c - f_{\text{lower}}$
- $f_c$  is the center frequency of the emission signal

For fundamental frequency 433.92MHz:

$$\text{Average Limit}(\mu\text{V/m}) = 3750 + (433.92 - 260) \left[ \frac{(12500 - 3750)}{(470 - 260)} \right] = 10996.67.$$

- Average Limit (dBμV/m) =  $20 \times \text{LOG}[\text{Field Strength}(\mu\text{V/m})] = 20 \times \text{LOG}(10996.67) = 80.83.$
- According to §15.35(b):  
Peak Limit (dBμV/m) = Average Limit (dBμV/m) + 20dB =  $80.83 + 20 = 100.83.$

### 4.2. Test Setup



### 4.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting        |
|---------------------|----------------|
| Center Frequency    | Test frequency |
| RBW                 | 120KHz         |
| VBW                 | 300KHz         |
| Sweep Time          | Auto           |
| Detector            | PEAK           |
| Trace Mode          | Max Hold       |

### 4.4. Test Procedure

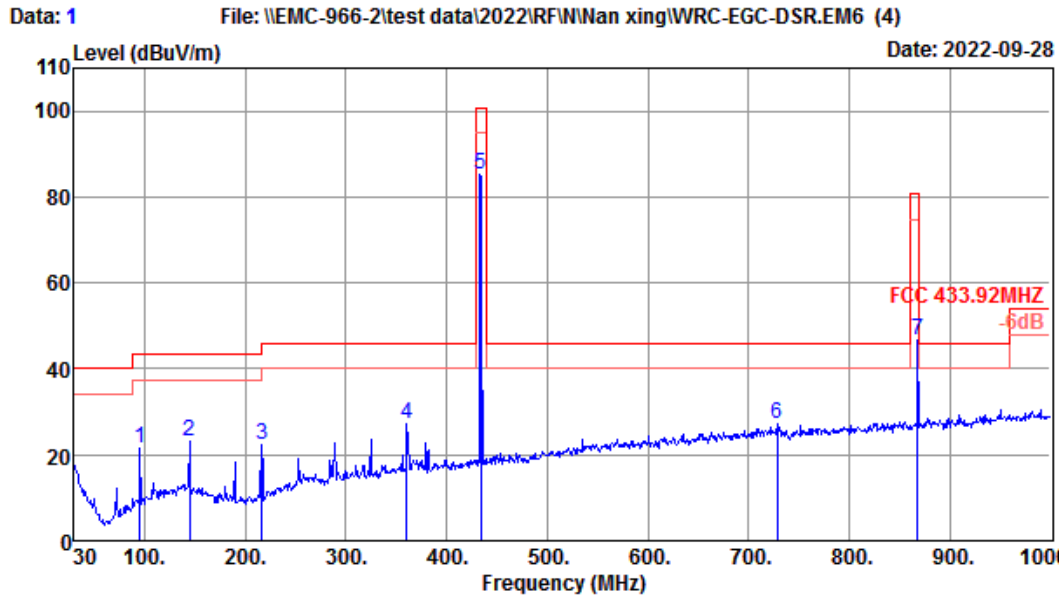
- a. EUT was placed on a turn table, which is 1.5 meter high above the ground.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Spectrum analyzer setting parameters in accordance with section 4.4.
- d. Set the EUT transmit continuously with maximum output power.
- e. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- f. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test,record the peak value.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

#### 4.5. Test Result

| Frequency (MHz) | Field strength of fundamental level (dB $\mu$ V/m) |       | Limit (dB $\mu$ V/m) |       | Result | Antenna Pole (H/V) |
|-----------------|--|-------|----------------------|-------|--------|--------------------|
|                 | Peak   | Avg   | Peak                 | Avg   |        |                    |
| 433.92          | 72.33  | 62.20 | 100.83               | 80.83 | Pass   | V                  |
|                 | 85.14  | 75.01 |                      |       | Pass   | H                  |

Note :

1. Avg Emission Level=Peak Emission Level+Duty Cycle Correction Factor.
2. Duty Cycle Correction Factor=-10.13.(refer to section 3 of this report )



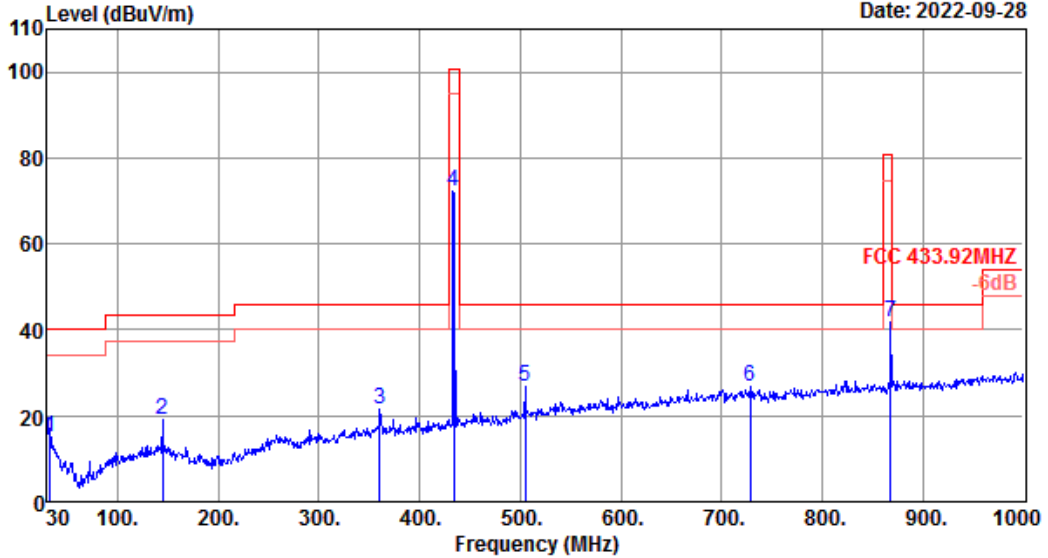
Site no. : 2# 966 chamber Data no. : 1  
 Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL  
 Limit : FCC 433.92MHZ  
 Env. / Ins. : Temp:21.5°C;Humi:51.1%;Press:101.52kPa  
 Engineer : Frank  
 EUT : Fred Eichler Remote  
 Power : DC 6V  
 M/N : WRC-EGC-DSR  
 Test Mode : TX

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 94.99          | 10.00                   | 0.77                  | 10.60             | 21.37                         | 43.50             | 22.13          | Peak   |
| 2 | 144.46         | 12.25                   | 0.96                  | 9.88              | 23.09                         | 43.50             | 20.41          | Peak   |
| 3 | 216.24         | 9.74                    | 1.21                  | 11.19             | 22.14                         | 46.00             | 23.86          | Peak   |
| 4 | 360.77         | 15.82                   | 1.87                  | 9.66              | 27.35                         | 46.00             | 18.65          | Peak   |
| 5 | 433.92         | 17.14                   | 1.99                  | 66.01             | 85.14                         | 100.80            | 15.66          | Peak   |
| 6 | 728.40         | 22.00                   | 2.97                  | 2.32              | 27.29                         | 46.00             | 18.71          | Peak   |
| 7 | 867.84         | 23.98                   | 3.23                  | 19.39             | 46.60                         | 80.83             | 34.23          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.



Data: 2 File: \\EMC-966-2\test data\2022\RF\Nan xing\WRC-EGC-DSR.EM6 (4) Date: 2022-09-28



Site no. : 2# 966 chamber Data no. : 2  
 Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL  
 Limit : FCC 433.92MHz  
 Env. / Ins. : Temp:21.5°C;Humi:51.1%;Press:101.52kPa  
 Engineer : Frank  
 EUT : Fred Eichler Remote  
 Power : DC 6V  
 M/N : WRC-EGC-DSR  
 Test Mode : TX

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 32.91          | 16.45                   | 0.22                  | -1.60             | 15.07                         | 40.00             | 24.93          | Peak   |
| 2 | 144.46         | 12.25                   | 0.96                  | 5.99              | 19.20                         | 43.50             | 24.30          | Peak   |
| 3 | 360.77         | 15.82                   | 1.87                  | 3.68              | 21.37                         | 46.00             | 24.63          | Peak   |
| 4 | 433.92         | 17.14                   | 1.99                  | 53.20             | 72.33                         | 100.80            | 28.47          | Peak   |
| 5 | 505.30         | 18.65                   | 2.32                  | 5.68              | 26.65                         | 46.00             | 19.35          | Peak   |
| 6 | 728.40         | 22.00                   | 2.97                  | 1.76              | 26.73                         | 46.00             | 19.27          | Peak   |
| 7 | 867.84         | 23.98                   | 3.23                  | 14.78             | 41.99                         | 80.83             | 38.84          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## 5. RADIATED SPURIOUS EMISSIONS

### 5.1. Limit

The limits on the field strength of the spurious emissions in the below table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

| Fundamental frequency (MHz)        | Field strength of spurious emission@3m (microvolts/meter) |
|------------------------------------|---|
| 40.66-40.70                        | 225   |
| 70-130                             | 125   |
| 130-174                            | <sup>1</sup> 125 to 375                                   |
| 174-260                            | 375   |
| 260-470                            | <sup>1</sup> 375 to 1,250                                 |
| Above 470                          | 1,250   |
| <sup>1</sup> Linear interpolations |   |

The EUT fundamental frequency is 433.92MHz, So the Average Limit & Peak Limit is show in below table:

| Fundamental frequency (MHz) | Field strength of spurious emission@3m (dBµV/m) |            |
|-----------------------------|---|------------|
|                             | Average Limit                                   | Peak Limit |
| 433.92                      | 60.83   | 80.83      |

Note:

- According to ANSI C63.10:2013 section 7.6.2:  
The effective limit at the frequency of interest is found by linearly interpolating using the familiar slope-intercept formula,  $y = mx + b$ , rewritten as in Equation

$$\text{Limit}[\mu\text{V/m}] = \text{Lim}_{\text{lower}} + \Delta F \cdot [(\text{Lim}_{\text{upper}} - \text{Lim}_{\text{lower}}) / (f_{\text{upper}} - f_{\text{lower}})]$$

where

- $\text{Lim}_{\text{lower}}$  is the limit at the lower frequency of the intended band of operation
- $\text{Lim}_{\text{upper}}$  is the limit at the upper frequency of the intended band of operation
- $f_{\text{lower}}$  is the lower frequency of the intended band of operation
- $f_{\text{upper}}$  is the upper frequency of the intended band of operation
- $\Delta F$  equals  $f_c - f_{\text{lower}}$
- $f_c$  is the center frequency of the emission signal

For fundamental frequency 433.92MHz:

$$\text{Average Limit}(\mu\text{V/m}) = 375 + (433.92 - 260) \cdot [(1250 - 375) / (470 - 260)] = 1099.67.$$

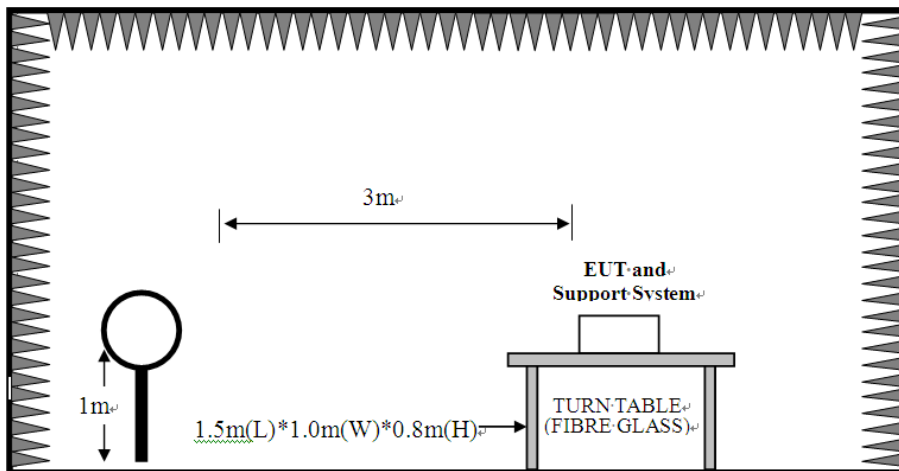
- Average Limit (dBµV/m) =  $20 \times \text{LOG}[\text{Field Strength}(\mu\text{V/m})] = 20 \times \text{LOG}(1099.67) = 60.83$ .
- According to §15.35(b):  
Peak Limit (dBµV/m) = Average Limit (dBµV/m) + 20dB = 60.83 + 20 = 80.83.

**15.209 Radiated emission limits**

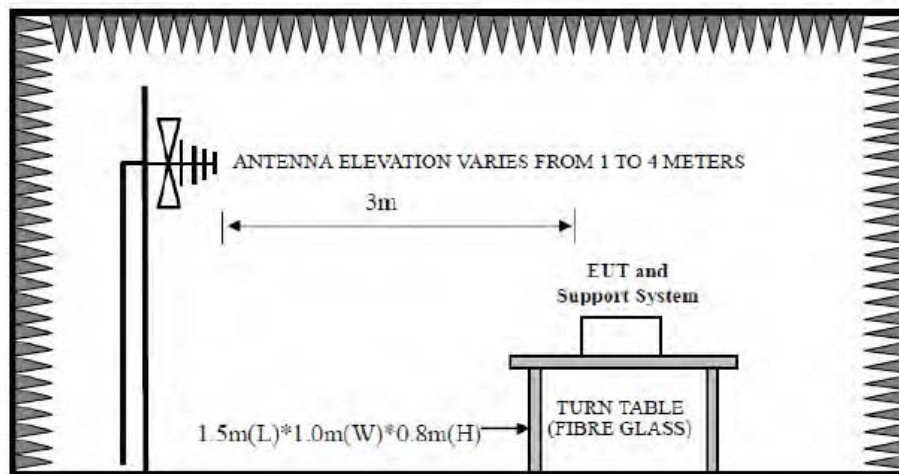
| <b>Frequency (MHz)</b> | <b>Field Strength(<math>\mu</math>V/m)</b> | <b>Distance(m)</b> |
|------------------------|--|--------------------|
| 0.009-0.490            | 2400/F(kHz)                                | 300                |
| 0.490-1.705            | 24000/F(kHz)                               | 30                 |
| 1.705-30               | 30   | 30                 |
| 30-88                  | 100  | 3                  |
| 88-216                 | 150  | 3                  |
| 216-960                | 200  | 3                  |
| Above 960              | 500  | 3                  |

## 5.2. Test Setup

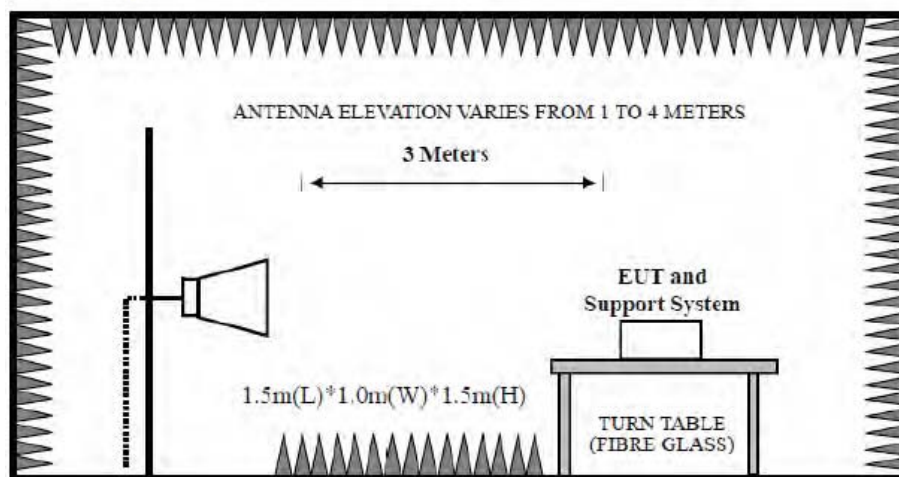
9kHz~30MHz



30~1000MHz



Above 1GHz



### 5.3. Spectrum Analyzer Setting

For 9KHz-150KHz

| Spectrum Parameters | Setting                                 |
|---------------------|---|
| RBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| VBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| Start frequency     | 9KHz                                    |
| Stop frequency      | 150KHz                                  |
| Sweep Time          | Auto                                    |
| Detector            | PEAK/QP/AVG                             |
| Trace Mode          | Max Hold                                |

For 150KHz-30MHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

For 30MHz-1000MHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 120KHz   |
| VBW                 | 300KHz   |
| Start frequency     | 30MHz    |
| Stop frequency      | 1000MHz  |
| Sweep Time          | Auto     |
| Detector            | PEAK     |
| Trace Mode          | Max Hold |

For Above 1GHz

| Spectrum Parameters | Setting                    |
|---------------------|----------------------------|
| RBW                 | 1MHz                       |
| VBW                 | 3MHz                       |
| Start frequency     | 1GHz                       |
| Stop frequency      | 10 Times Carrier Frequency |
| Sweep Time          | Auto                       |
| Detector            | PEAK                       |
| Trace Mode          | Max Hold                   |

## 5.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. Spectrum analyzer setting parameters in accordance with section 5.3.
- e. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- f. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- g. Record the results in the test report.

## 5.5. Test Result

| <b>Below 1GHz</b> |  |       |                      |       |        |                    |
|-------------------|--|-------|----------------------|-------|--------|--------------------|
| Frequency (MHz)   | Field strength of fundamental level (dB $\mu$ V/m) |       | Limit (dB $\mu$ V/m) |       | Result | Antenna Pole (H/V) |
|                   | Peak   | Avg   | Peak                 | QP    |        |                    |
| 32.91             | 15.07  | 4.94  |                      | 40.00 | Pass   | V                  |
| 144.46            | 19.20  | 9.07  |                      | 43.52 | Pass   | V                  |
| 360.77            | 21.37  | 11.24 |                      | 46.00 | Pass   | V                  |
| 505.30            | 26.65  | 16.52 |                      | 46.00 | Pass   | V                  |
| 728.40            | 26.73  | 16.60 |                      | 46.00 | Pass   | V                  |
| 867.84            | 41.99  | 31.86 | 80.83                | 60.83 | Pass   | V                  |
| 94.99             | 21.37  | 11.24 |                      | 43.52 | Pass   | H                  |
| 144.46            | 23.09  | 12.96 |                      | 43.52 | Pass   | H                  |
| 216.24            | 22.14  | 12.01 |                      | 46.00 | Pass   | H                  |
| 360.77            | 27.35  | 17.22 |                      | 46.00 | Pass   | H                  |
| 728.40            | 27.29  | 17.16 |                      | 46.00 | Pass   | H                  |
| 867.84            | 46.60  | 36.47 | 80.83                | 60.83 | Pass   | H                  |
| <b>Above 1GHz</b> |  |       |                      |       |        |                    |
| Frequency (MHz)   | Field strength of fundamental level (dB $\mu$ V/m) |       | Limit (dB $\mu$ V/m) |       | Result | Antenna Pole (H/V) |
|                   | Peak   | Avg   | Peak                 | Avg   |        |                    |
| 1300.00           | 43.08  | 32.95 | 74                   | 54    | Pass   | V                  |
| 1735.00           | 47.84  | 37.71 |                      |       | Pass   | V                  |
| 2170.00           | 50.72  | 40.59 |                      |       | Pass   | V                  |
| 2605.00           | 52.88  | 42.75 |                      |       | Pass   | V                  |
| 3470.00           | 55.39  | 45.26 |                      |       | Pass   | V                  |
| 4340.00           | 54.62  | 44.49 |                      |       | Pass   | V                  |
| 1735.00           | 42.31  | 32.18 |                      |       | Pass   | H                  |
| 2170.00           | 42.81  | 32.68 |                      |       | Pass   | H                  |
| 2605.00           | 46.83  | 36.70 |                      |       | Pass   | H                  |
| 3470.00           | 54.59  | 44.46 |                      |       | Pass   | H                  |
| 3905.00           | 48.31  | 38.18 |                      |       | Pass   | H                  |
| 4340.00           | 50.30  | 40.17 |                      |       | Pass   | H                  |

Note :

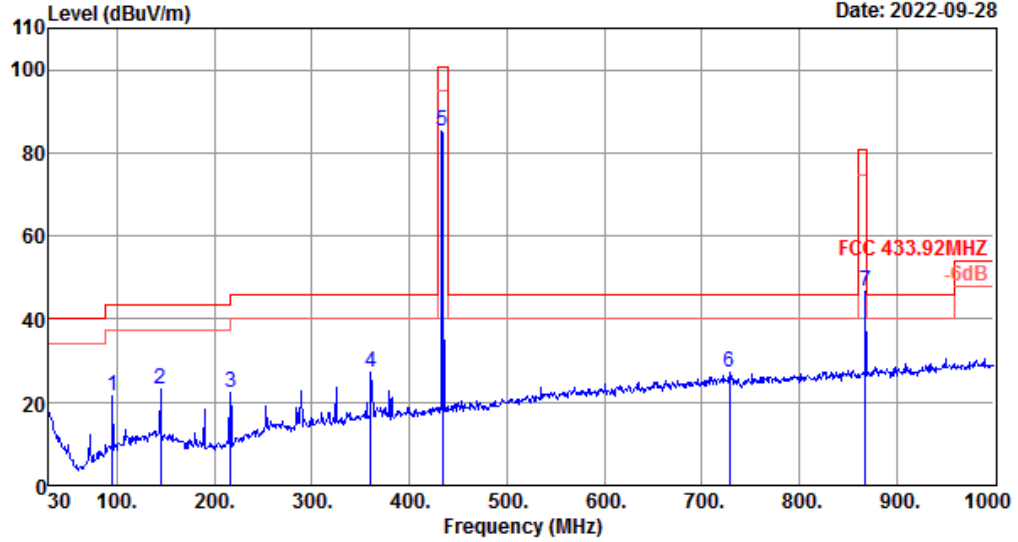
1. Avg Emission Level=Peak Emission Level+Duty Cycle Correction Factor
2. Duty Cycle Correction Factor=-10.13.(refer to section 3 of this report )

### Radiated Emissions Below 1GHz

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Data: 1 File: \\EMC-966-2\test data\2022\RF\Nan xing\WRC-EGC-DSR.EM6 (4) Date: 2022-09-28



Site no. : 2# 966 chamber Data no. : 1  
 Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL  
 Limit : FCC 433.92MHZ  
 Env. / Ins. : Temp:21.5°C;Humi:51.1%;Press:101.52kPa  
 Engineer : Frank  
 EUT : Fred Eichler Remote  
 Power : DC 6V  
 M/N : WRC-EGC-DSR  
 Test Mode : TX

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 94.99          | 10.00                   | 0.77                  | 10.60             | 21.37                         | 43.50             | 22.13          | Peak   |
| 2 | 144.46         | 12.25                   | 0.96                  | 9.88              | 23.09                         | 43.50             | 20.41          | Peak   |
| 3 | 216.24         | 9.74                    | 1.21                  | 11.19             | 22.14                         | 46.00             | 23.86          | Peak   |
| 4 | 360.77         | 15.82                   | 1.87                  | 9.66              | 27.35                         | 46.00             | 18.65          | Peak   |
| 5 | 433.92         | 17.14                   | 1.99                  | 66.01             | 85.14                         | 100.80            | 15.66          | Peak   |
| 6 | 728.40         | 22.00                   | 2.97                  | 2.32              | 27.29                         | 46.00             | 18.71          | Peak   |
| 7 | 867.84         | 23.98                   | 3.23                  | 19.39             | 46.60                         | 80.83             | 34.23          | Peak   |

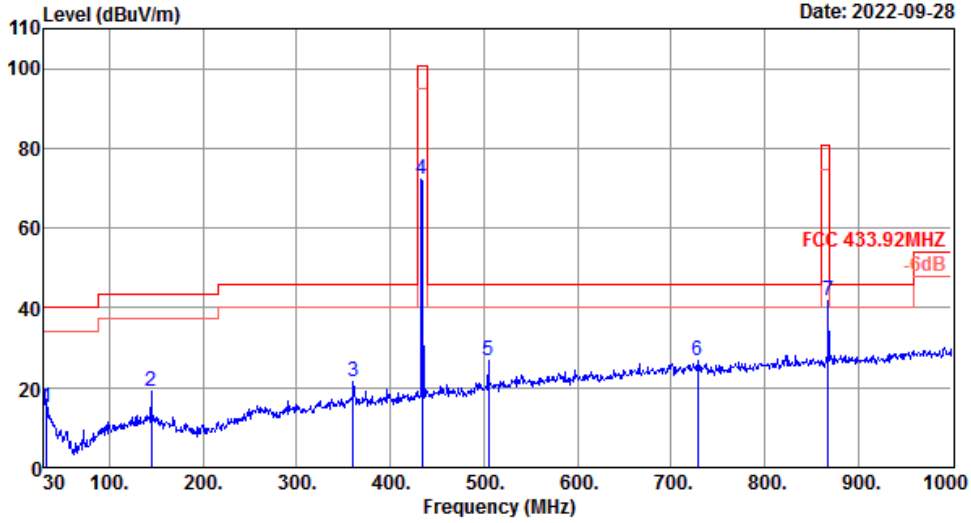
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.



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Data: 2 File: \\EMC-966-2\test data\2022\RF\INan xing\WRC-EGC-DSR.EM6 (4) Date: 2022-09-28



Site no. : 2# 966 chamber Data no. : 2  
 Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL  
 Limit : FCC 433.92MHZ  
 Env. / Ins. : Temp:21.5°C;Humi:51.1%;Press:101.52kPa  
 Engineer : Frank  
 EUT : Fred Eichler Remote  
 Power : DC 6V  
 M/N : WRC-EGC-DSR  
 Test Mode : TX

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 32.91          | 16.45                   | 0.22                  | -1.60             | 15.07                         | 40.00             | 24.93          | Peak   |
| 2 | 144.46         | 12.25                   | 0.96                  | 5.99              | 19.20                         | 43.50             | 24.30          | Peak   |
| 3 | 360.77         | 15.82                   | 1.87                  | 3.68              | 21.37                         | 46.00             | 24.63          | Peak   |
| 4 | 433.92         | 17.14                   | 1.99                  | 53.20             | 72.33                         | 100.80            | 28.47          | Peak   |
| 5 | 505.30         | 18.65                   | 2.32                  | 5.68              | 26.65                         | 46.00             | 19.35          | Peak   |
| 6 | 728.40         | 22.00                   | 2.97                  | 1.76              | 26.73                         | 46.00             | 19.27          | Peak   |
| 7 | 867.84         | 23.98                   | 3.23                  | 14.78             | 41.99                         | 80.83             | 38.84          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

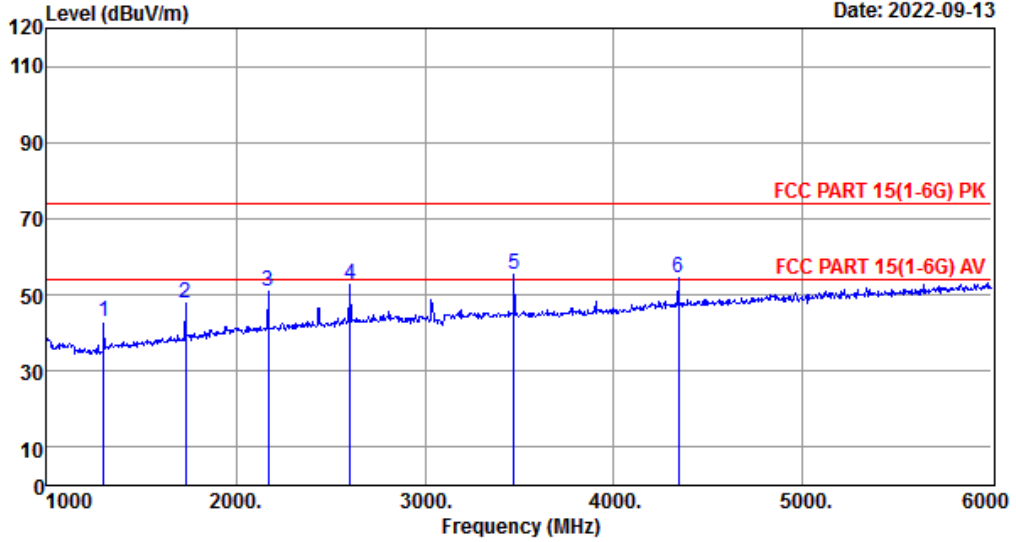


### Radiated Emissions Above 1G

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Data: 1 File: \\EMC-966-1\test data\2022\RF\Nan Xing\WRC-EGC-DSR.EM6 (4) Date: 2022-09-13

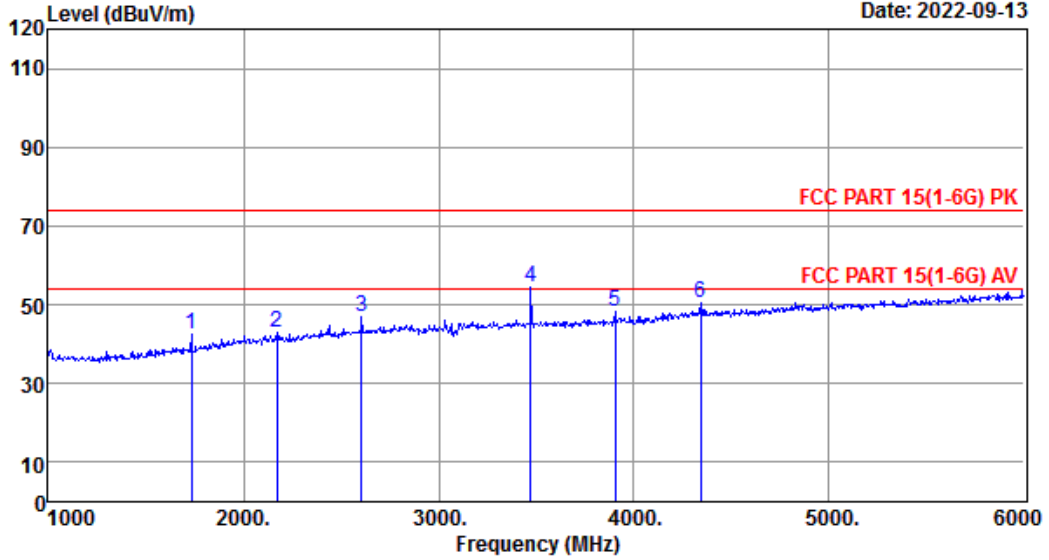


Site no. : 1# 966 Chamber Data no. : 1  
 Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15(1-6G) PK  
 Env. / Ins. : Temp:25.2°C.Humi:46%;Press:101.52KPa  
 Engineer : JBR  
 EUT : Fred Eichler Remote  
 Power : DC 6V  
 M/N : WRC-EGC-DSR  
 Test Mode : TX

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 1300.00        | 24.25                   | 2.46                  | 16.37             | 43.08                         | 74.00             | 30.92          | Peak   |
| 2 | 1735.00        | 25.30                   | 2.96                  | 19.58             | 47.84                         | 74.00             | 26.16          | Peak   |
| 3 | 2170.00        | 27.04                   | 3.38                  | 20.30             | 50.72                         | 74.00             | 23.28          | Peak   |
| 4 | 2605.00        | 27.82                   | 3.58                  | 21.48             | 52.88                         | 74.00             | 21.12          | Peak   |
| 5 | 3470.00        | 29.01                   | 4.12                  | 22.26             | 55.39                         | 74.00             | 18.61          | Peak   |
| 6 | 4340.00        | 30.03                   | 4.64                  | 19.95             | 54.62                         | 74.00             | 19.38          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 2 File: \\EMC-966-1\test data\2022\RF\Nan Xing\WRC-EGC-DSR.EM6 (4) Date: 2022-09-13



Site no. : 1# 966 Chamber Data no. : 2  
 Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15(1-6G) PK  
 Env. / Ins. : Temp:25.2°C.Humi:46%;Press:101.52KPa  
 Engineer : JBR  
 EUT : Fred Eichler Remote  
 Power : DC 6V  
 M/N : WRC-EGC-DSR  
 Test Mode : TX

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBUV) | Emission<br>Level<br>(dBUV/m) | Limit<br>(dBUV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 1735.00        | 25.30                   | 2.96                  | 14.05             | 42.31                         | 74.00             | 31.69          | Peak   |
| 2 | 2170.00        | 27.04                   | 3.38                  | 12.39             | 42.81                         | 74.00             | 31.19          | Peak   |
| 3 | 2605.00        | 27.82                   | 3.58                  | 15.43             | 46.83                         | 74.00             | 27.17          | Peak   |
| 4 | 3470.00        | 29.01                   | 4.12                  | 21.46             | 54.59                         | 74.00             | 19.41          | Peak   |
| 5 | 3905.00        | 29.41                   | 4.38                  | 14.52             | 48.31                         | 74.00             | 25.69          | Peak   |
| 6 | 4340.00        | 30.03                   | 4.64                  | 15.63             | 50.30                         | 74.00             | 23.70          | Peak   |

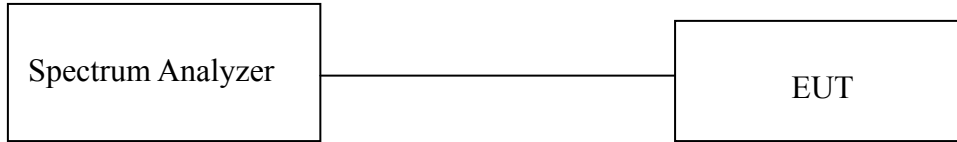
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## 6. 20DB BANDWIDTH

### 6.1. 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. Bandwidth is determined at the points 20 dB down from the modulated carrier.

### 6.2. Test Setup



### 6.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting                          |
|---------------------|----------------------------------|
| RBW                 | 1%~5% OBW                        |
| VBW                 | 3×RBW                            |
| Span                | Two times and five times the OBW |
| Sweep Time          | Auto                             |
| Detector            | Peak                             |
| Trace Mode          | Max Hold                         |

### 6.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 6.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.
- e. Record the results in the test report.

### 6.5. Test Condition

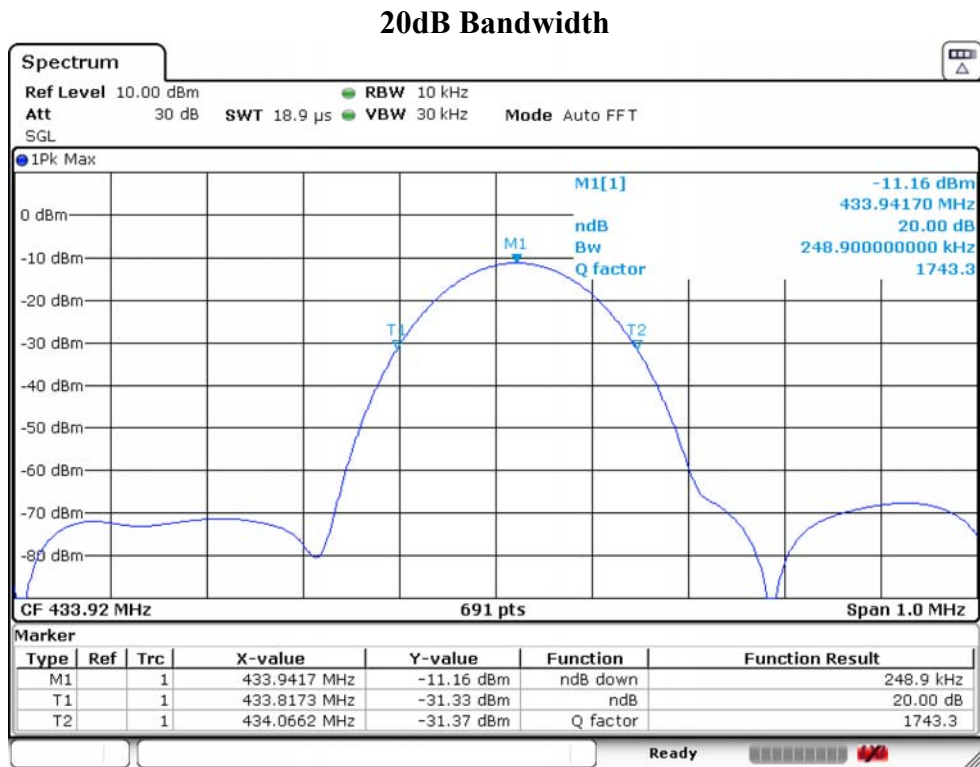
|             |        |                   |       |              |       |
|-------------|--------|-------------------|-------|--------------|-------|
| Temperature | 21.5°C | Relative Humidity | 51.1% | Test Voltage | DC 6V |
|-------------|--------|-------------------|-------|--------------|-------|

### 6.6. Test Result

| Test Frequency (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Result |
|----------------------|----------------------|-------------|--------|
| 433.92               | 0.2489               | 1.0848      | Pass   |

Note:

$$\text{Limit(MHz)} = 433.92 \times 0.25\% = 1.0848$$

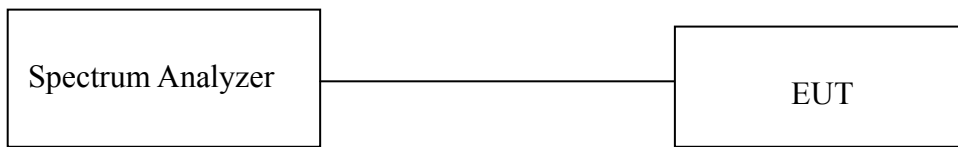


## 7. DURATION TIME

### 7.1. Limit

- (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.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

### 7.2. Test Setup



### 7.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting                                |
|---------------------|--|
| Center Frequency    | Test Frequency                         |
| RBW                 | $\geq$ OBW                             |
| VBW                 | $\geq$ RBW                             |
| Span                | Zero                                   |
| Sweep Time          | At least one period of the pulse train |
| Detector            | PEAK                                   |

### 7.4. Test Procedure

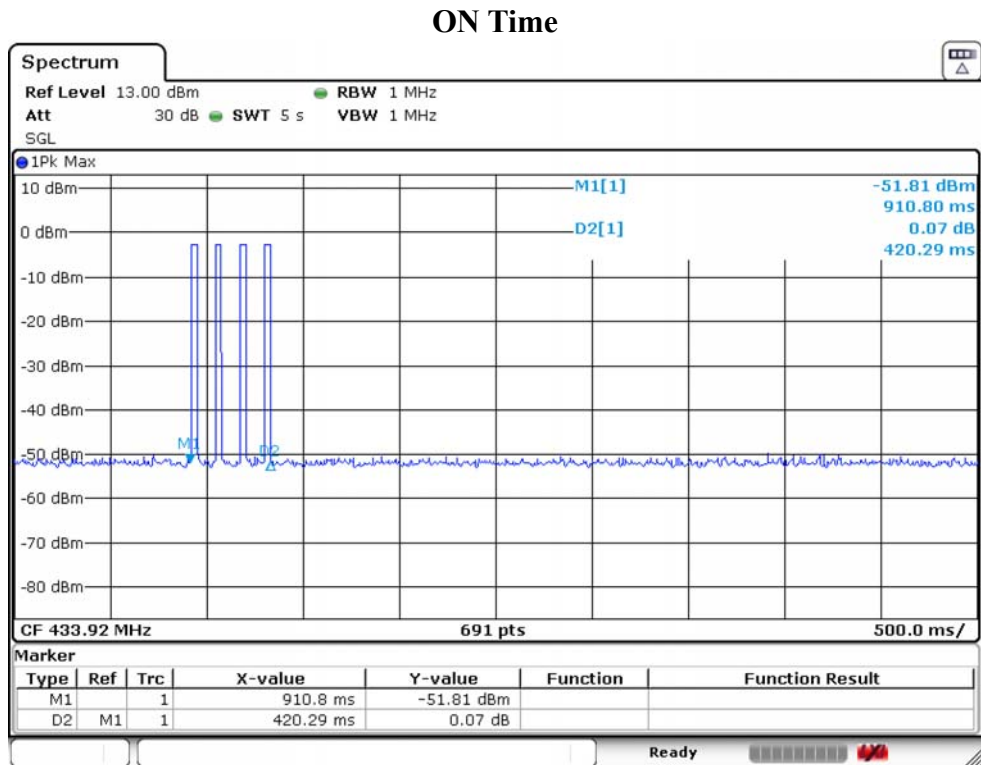
- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 7.3.
- c. Set the EUT transmit in normal use.
- d. Adjust sweep time on the spectrum analyzer to capture at least one period of the pulse train of the EUT.
- e. Allow trace to stabilize, use the marker-delta function to measure the on time and off time of the signal.
- f. Record the results in the test report.

### 7.5. Test Condition

|             |        |                   |       |              |       |
|-------------|--------|-------------------|-------|--------------|-------|
| Temperature | 21.5°C | Relative Humidity | 51.1% | Test Voltage | DC 6V |
|-------------|--------|-------------------|-------|--------------|-------|

### 7.6. Test Result

| Test Frequency (MHz) | On Time (s) | Limit (s) | Result |
|----------------------|-------------|-----------|--------|
| 433.92               | 0.42        | 5         | Pass   |



## 8. ANTENNA REQUIREMENTS

### 8.1. Limit

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

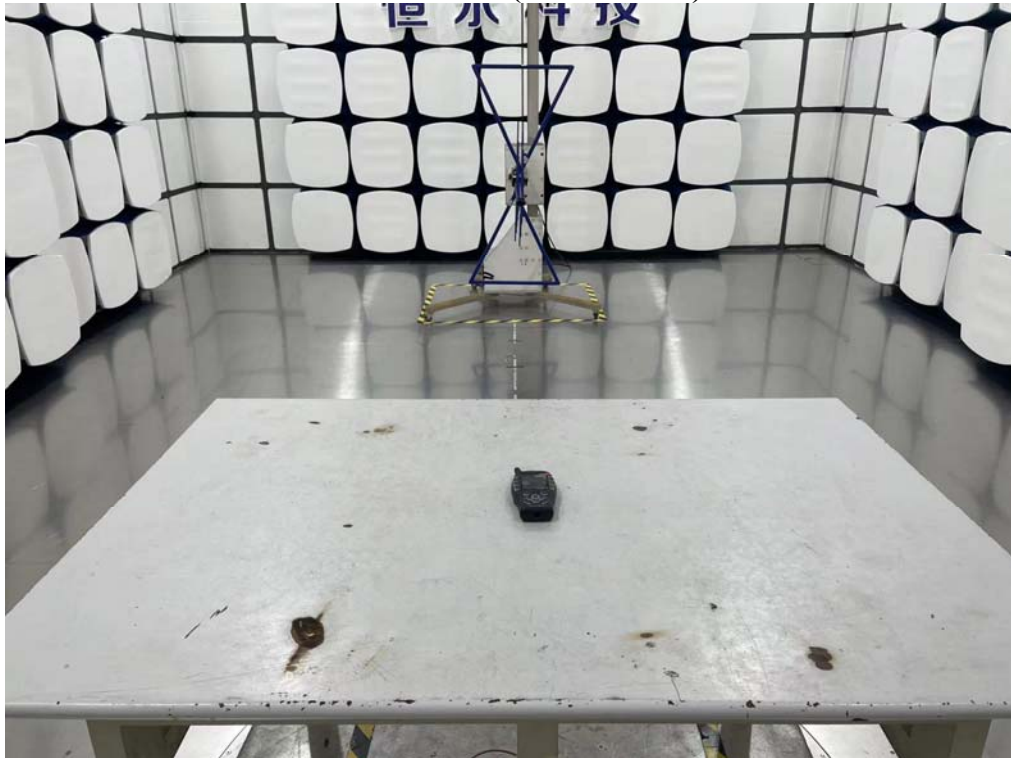
### 8.2. Test Result

The antennas used for this product is integral antenna ,so compliance with antenna requirements. (Please refer to the EUT photo for details)



## 9. TEST SETUP PHOTO

**Radiated Test (Below 1GHz)**



**Radiated Test (Above 1GHz)**



# 10. EUT PHOTO

**External Photos**  
M/N: WRC-EGC-DSR



**External Photos**  
M/N: WRC-EGC-DSR





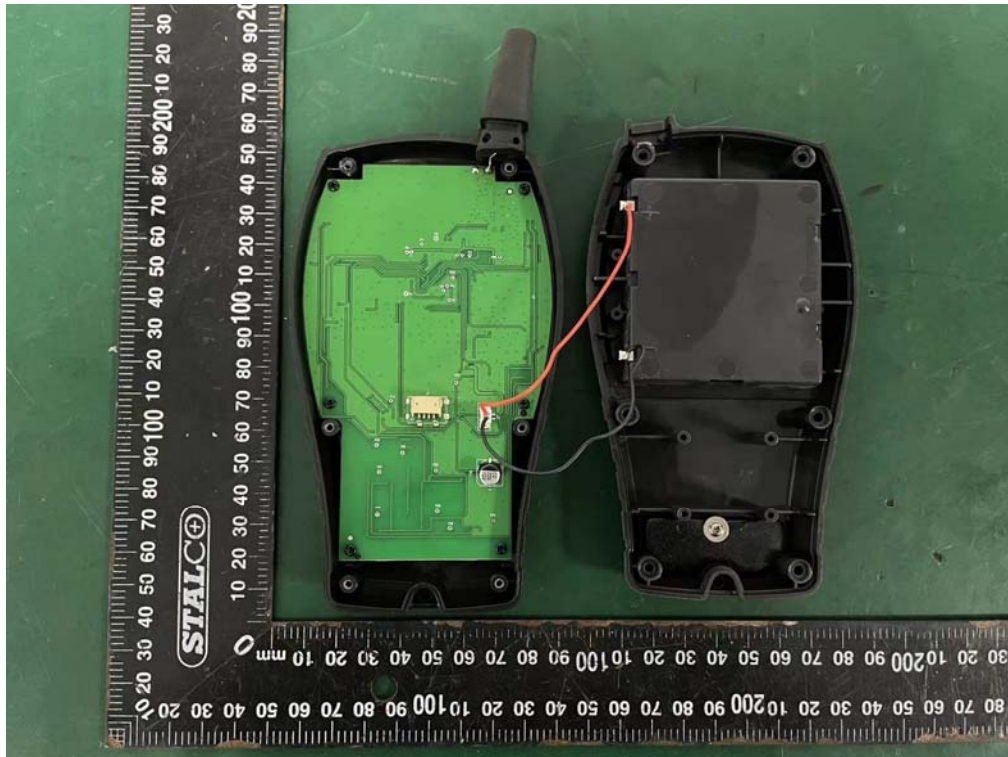
**External Photos**  
M/N: WRC-EGC-DSR



**External Photos**  
M/N: WRC-EGC-DSR

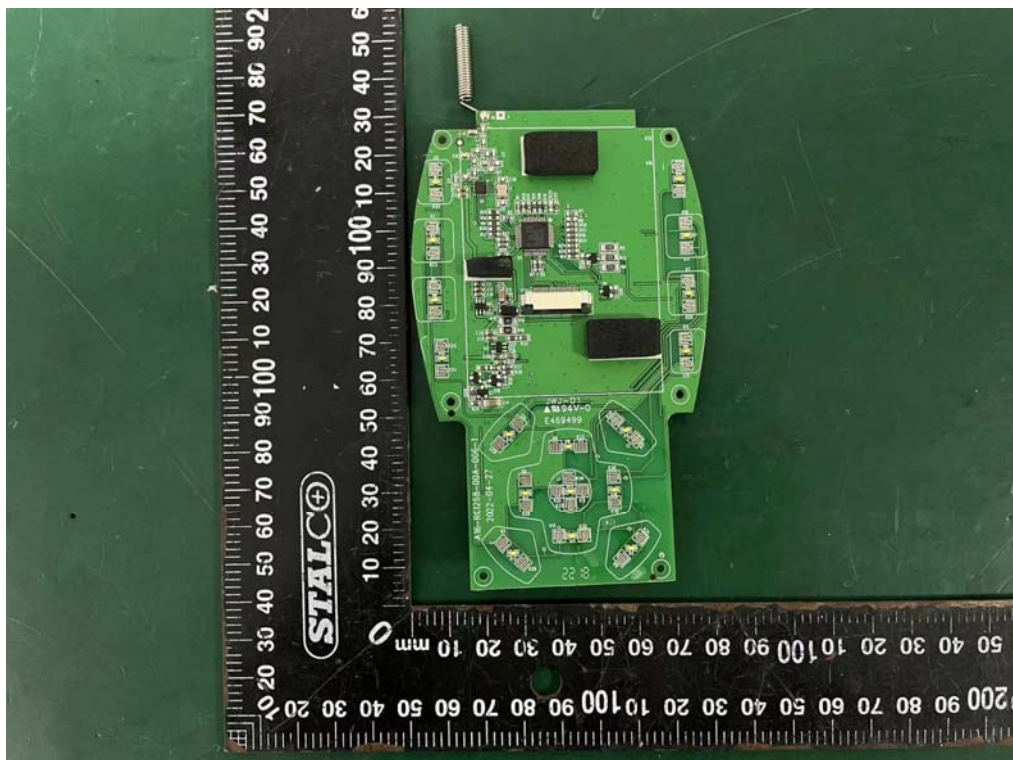
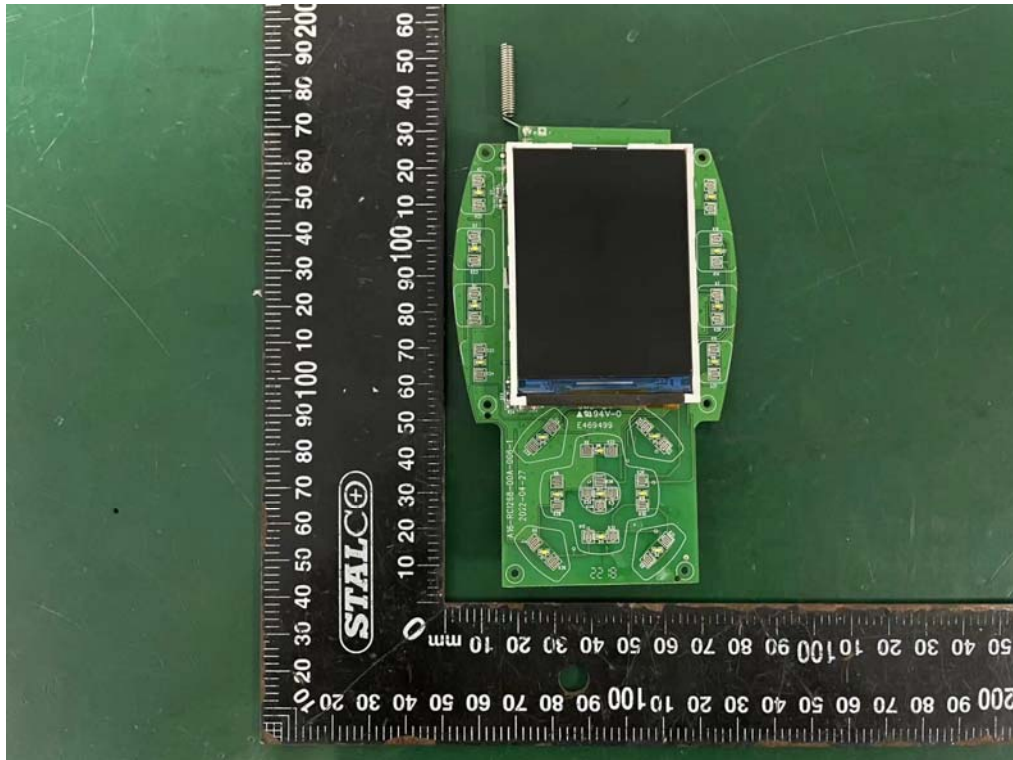


**Internal Photos**  
M/N: WRC-EGC-DSR

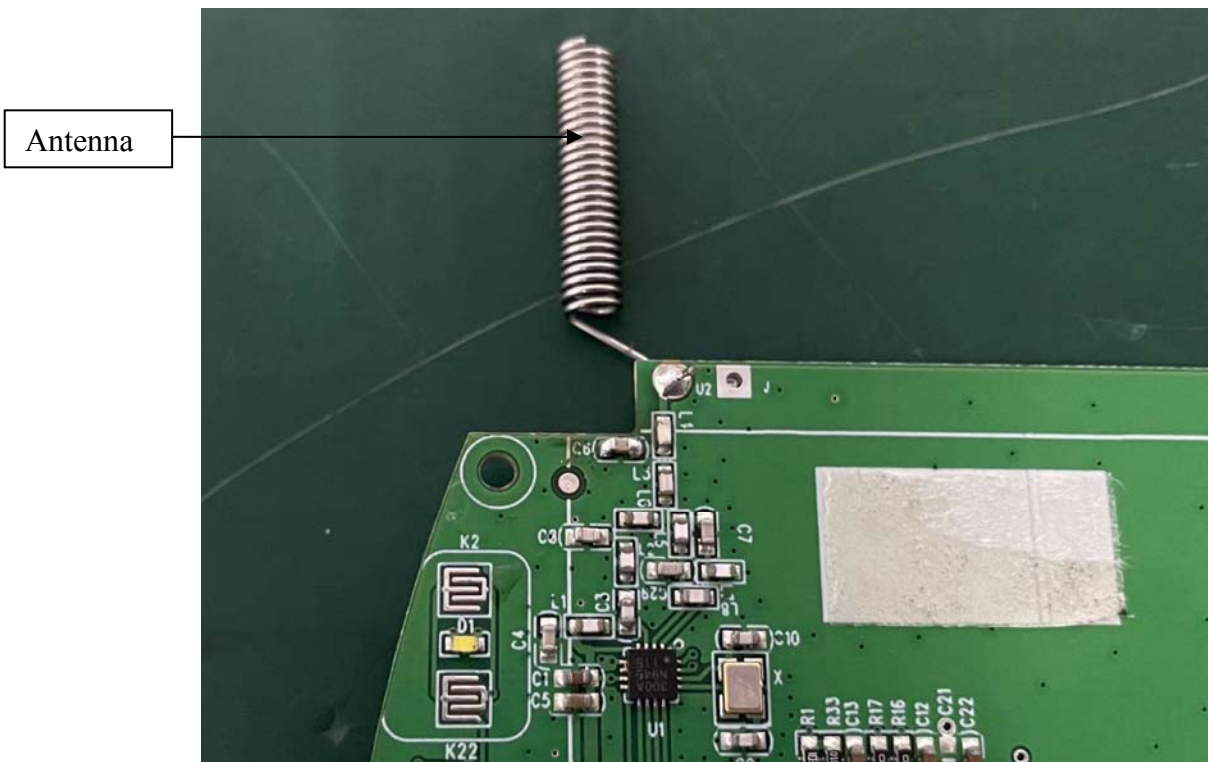




**Internal Photos**  
M/N: WRC-EGC-DSR



**Internal Photos**  
M/N: WRC-EGC-DSR



**End of Test Report**