

**FCC PART 15 SUBPART C TEST REPORT**

**for**

**Remote Controller**

**Model No.: DOL1000MF\_433RC**

**FCC ID: SU7DOL1000-433RC4**

**of**

**Applicant: Controlled Entry Distributors, Inc.**

**Address: 2500 South 3850 West Suite A Salt Lake City Utah United  
States 84120**

**Tested and Prepared**

**by**

**Worldwide Testing Services (Taiwan) Co., Ltd.**

**FCC Registration No.: 930600**

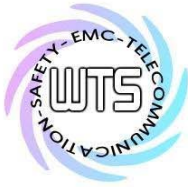
**Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC-5107A-1**

**A2LA Accredited No.: 2732.01**



**Report No.: W6M21503-14866-C-1**

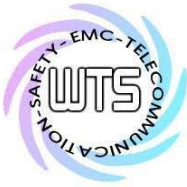
6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wtst@wtst-lab.com](mailto:wtst@wtst-lab.com)



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# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M21503-14866-C-1  
FCC ID: SU7DOL1000-433RC4

## **1 General Information**

### **1.1 Notes**

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

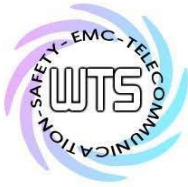
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### **Tester:**

|                |               |                   |
|----------------|---------------|-------------------|
| March 31, 2015 | Leon Chueh    | <i>Leon Chueh</i> |
| Date           | WTS-Lab. Name | Signature         |

### **Technical responsibility for area of testing:**

|                |            |                   |
|----------------|------------|-------------------|
| March 31, 2015 | Kevin Wang | <i>Kevin Wang</i> |
| Date           | WTS Name   | Signature         |



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

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FCC ID: SU7DOL1000-433RC4

## **1.2 Testing laboratory**

### **1.2.1 Location**

OATS

No.5-1, Lishui, Shuang Sing Village,  
Wanli Dist., New Taipei City 207,  
Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

### **1.2.2 Details of accreditation status**

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1



**Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :**

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

## **1.3 Details of approval holder**

Name : Controlled Entry Distributors, Inc.

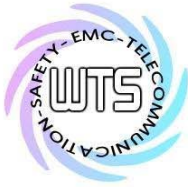
Street : 2500 South 3850 West Suite A Salt Lake City 84120

Town : Utah

Country : United States

Telephone : 801-972-4331

Fax : 801-972-1202



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## **1.4 Application details**

Date of receipt of test item: March 11, 2015  
Date of test: from March 12, 2015 to March 27, 2015

## **1.5 Test item**

Description of test item: Remote Controller  
Type identification: DOL1000MF\_433RC  
Brand name: ./.  
Multi-listing model number: ./.  
Transmitting frequency: 433.9 MHz  
Operation mode: simplex  
Voltage supply: Battery 1.5Vd.c.\*4

(The device is tested under fresh battery condition.)

Highest clock frequency: 433.9 MHz  
Antenna type: PCB Antenna  
Photos: see Annex

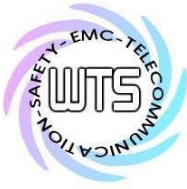
### **Manufacturer (if applicable)**

Name: Lighting Tech Co., Ltd.  
Street: Room 1, 5F., No.530,Sec.2, Jhongshan Rd., Jhonghe Dist,  
Town: New Taipei City 235,  
Country: Taiwan R.O.C.

Additional information: ./.

## **1.6 Test standards**

Technical standard : FCC RULES PART 15 SUBPART C § 15.231 (a) (2013-10)



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## **2 Technical test**

### **2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



**or**

The deviations as specified in 3 were ascertained in the course of the tests performed.



### **2.2 Test environment**

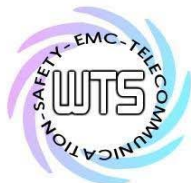
|                            |                    |
|----------------------------|--------------------|
| Temperature:               | 23 °C              |
| Relative humidity content: | 20 ... 75 %        |
| Air pressure:              | 86 ... 103 kPa     |
| Details of power supply:   | Battery 1.5Vd.c.*4 |



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## 2.3 Test equipment utilized

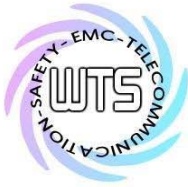
| No.          | Test equipment                              | Type                   | Serial No.    | Manufacturer       | Cal. Date     | Next Cal. Date |
|--------------|---------------------------------------------|------------------------|---------------|--------------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER                           | ESHS10                 | 842121/013    | R&S                | 2014/9/2      | 2015/9/1       |
| ETSTW-CE 003 | AC POWER SOURCE                             | APS-9102               | D161137       | GW                 | Function Test |                |
| ETSTW-CE 008 | HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP | 334.6010.02            | 844581/024    | R&S                | Function Test |                |
| ETSTW-CE 009 | TEMP.&HUMIDITY CHAMBER                      | GTH-225-40-1P-U        | MAA0305-009   | GIANT FORCE        | 2014/7/8      | 2015/7/7       |
| ETSTW-CE 016 | TWO-LINE V-NETWORK                          | ENV216                 | 100050        | R&S                | 2014/10/13    | 2015/10/12     |
| ETSTW-RE 004 | EMI TEST RECEIVER                           | ESI 40                 | 832427/004    | R&S                | 2014/9/2      | 2015/9/1       |
| ETSTW-RE 005 | EMI TEST RECEIVER                           | ESVS10                 | 843207/020    | R&S                | 2014/9/2      | 2015/9/1       |
| ETSTW-RE 012 | TUNABLE BANDREJECT FILTER                   | D.C 0309               | 146           | K&L                | Function Test |                |
| ETSTW-RE 013 | TUNABLE BANDREJECT FILTER                   | D.C 0336               | 397           | K&L                | Function Test |                |
| ETSTW-RE 018 | MICROWAVE HORN ANTENNA                      | AT4560                 | 27212         | AR                 | 2014/10/15    | 2015/10/14     |
| ETSTW-RE 027 | Passive Loop Antenna                        | 6512                   | 00034563      | ETS-Lindgren       | 2014/7/01     | 2015/6/30      |
| ETSTW-RE 030 | Double-Ridged Guide Horn Antenna            | 3117                   | 00035224      | ETS-Lindgren       | 2015/3/17     | 2016/3/16      |
| ETSTW-RE 045 | ESA-E SERIES SPECTRUM ANALYZER              | E4404B                 | MY45111242    | Agilent            | Pre-test Use  |                |
| ETSTW-RE 049 | TRILOG Super Broadband test Antenna         | VULB 9160              | 9160-3185     | Schwarzbeck        | 2015/3/19     | 2016/3/18      |
| ETSTW-RE 050 | Attenuator 10dB                             | 50HF-010-1             | None          | JFW                | 2015/3/2      | 2016/3/1       |
| ETSTW-RE 051 | Attenuator 6dB                              | 50HF-006-1             | None          | JFW                | 2015/3/2      | 2016/3/1       |
| ETSTW-RE 053 | Attenuator 3dB                              | 50HF-003-1             | None          | JFW                | 2015/3/2      | 2016/3/1       |
| ETSTW-RE 055 | SPECTRUM ANALYZER                           | FSU 26                 | 200074        | R&S                | 2014/6/05     | 2015/6/04      |
| ETSTW-RE 060 | Attenuator 30dB                             | 5015-30                | F651012z-01   | ATM                | 2015/3/2      | 2016/3/1       |
| ETSTW-RE 062 | Amplifier Module                            | CHC 2                  | None          | KMIC               | 2014/11/26    | 2015/11/25     |
| ETSTW-RE 064 | Bluetooth Test Set                          | MT8852B-042            | 6K00005709    | Anritsu            | Function Test |                |
| ETSTW-RE 069 | Double-Ridged Guide Horn Antenna            | 3117                   | 00069377      | ETS-Lindgren       | Function Test |                |
| ETSTW-RE 072 | CELL SITE TEST SET                          | 8921A                  | 3339A00375    | HP                 | 2014/10/9     | 2015/10/8      |
| ETSTW-RE 088 | SOLID STATE AMPLIFIER                       | KMA180265A01           | 99057         | KMIC               | 2014/9/22     | 2015/9/21      |
| ETSTW-RE 099 | DC Block                                    | 50DB-007-1             | None          | JFW                | 2015/3/2      | 2016/3/1       |
| ETSTW-RE 106 | Humidity Temperature Meter                  | TES-1366               | 091011113     | TES                | 2014/11/7     | 2015/11/6      |
| ETSTW-RE 111 | TRILOG Super Broadband test Antenna         | VULB 9160              | 9160-3309     | Schwarz beck       | 2014/12/5     | 2015/12/4      |
| ETSTW-RE 112 | AC POWER SOURCE                             | TFC-1005               | None          | T-Power            | Function test |                |
| ETSTW-RE 115 | 2.4GHz Notch Filter                         | N0124411               | 473874        | MICROWAVE CIRCUITS | 2015/1/7      | 2016/1/6       |
| ETSTW-RE 120 | RF Player                                   | MP9200                 | MP9210-111022 | ADIVIC             | Function test |                |
| ETSTW-RE 122 | SIGNAL GENERATOR                            | SMF100A                | 102149        | R&S                | 2014/6/11     | 2015/6/10      |
| ETSTW-RE 125 | 5GHz Notch filter                           | 5NSL11-5200/E221.3-O/O | 1             | K&L Microwave      | 2014/8/12     | 2015/8/11      |
| ETSTW-RE 126 | 5GHz Notch filter                           | 5NSL11-5800/E221.3-O/O | 1             | K&L Microwave      | 2014/8/12     | 2015/8/11      |



# Worldwide Testing Services(Taiwan) Co., Ltd.

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|                 |                                      |                                        |              |                   |                  |            |
|-----------------|--------------------------------------|----------------------------------------|--------------|-------------------|------------------|------------|
| ETSTW-RE 127    | RF Switch Box                        | RFS-01                                 | None         | WTS               | 2015/3/2         | 2016/3/1   |
| ETSTW-RE 128    | 5.3GHz Notch filter                  | N0153001                               | SN487233     | Microwave Circits | 2014/8/12        | 2015/8/11  |
| ETSTW-RE 129    | 5.5GHz Notch filter                  | N0555984                               | SN487234     | Microwave Circits | 2014/8/12        | 2015/8/11  |
| ETSTW-RE 130    | Handheld RF Spectrum Analyzer        | N9340A                                 | CN0147000204 | Agilent           | Pre-test Use     |            |
| ETSTW-GSM 002   | Universal Radio Communication Tester | CMU 200                                | 109439       | R&S               | 2014/10/20       | 2015/10/19 |
| ETSTW-GSM 003   | Radio Communication Analyzer         | MT8820C                                | 6201342073   | Anritsu           | 2015/3/5         | 2016/3/4   |
| ETSTW-GSM 019   | Band Reject Filter                   | WRCTF824/849-822/851-40/12+9SS         | 3            | WI                | 2015/1/7         | 2016/1/6   |
| ETSTW-GSM 020   | Band Reject Filter                   | WRCD1747/1748-1743/1752-32/5SS         | 1            | WI                | 2015/1/7         | 2016/1/6   |
| ETSTW-GSM 021   | Band Reject Filter                   | WRCD1879.5/1880.5-1875.5/1884.5-32/5SS | 3            | WI                | 2015/1/7         | 2016/1/6   |
| ETSTW-GSM 022   | Band Reject Filter                   | WRCT901.9/903.1-904.25-50/8SS          | 1            | WI                | 2015/1/7         | 2016/1/6   |
| ETSTW-GSM 023   | Power Divider                        | 4901.19.A                              | None         | SUHNER            | 2014/9/17        | 2015/9/16  |
| ETSTW-Cable 010 | BNC Cable                            | 5 M BNC Cable                          | None         | JYE BAO CO.,LTD.  | 2014/10/15       | 2015/10/14 |
| ETSTW-Cable 011 | BNC Cable                            | BNC Cable 1                            | None         | JYE BAO CO.,LTD.  | Pre-test Use NCR |            |
| ETSTW-Cable 012 | N TYPE To SMA Cable                  | Cable 012                              | None         | JYE BAO CO.,LTD.  | 2014/10/15       | 2015/10/14 |
| ETSTW-Cable 016 | BNC Cable                            | Switch Box                             | B Cable 1    | Schwarz beck      | 2015/2/25        | 2016/2/24  |
| ETSTW-Cable 017 | BNC Cable                            | X Cable                                | B Cable 2    | Schwarz beck      | 2015/2/25        | 2016/2/24  |
| ETSTW-Cable 018 | BNC Cable                            | Y Cable                                | B Cable 3    | Schwarz beck      | 2015/2/25        | 2016/2/24  |
| ETSTW-Cable 019 | BNC Cable                            | Z Cable                                | B Cable 4    | Schwarz beck      | 2015/2/25        | 2016/2/24  |
| ETSTW-Cable 022 | N TYPE Cable                         | 5006                                   | 0002         | JYE BAO CO.,LTD.  | 2015/3/19        | 2016/3/18  |
| ETSTW-Cable 026 | Microwave Cable                      | SUCOFLEX 104                           | 279075       | HUBER+SUHNER      | 2015/3/2         | 2016/3/1   |
| ETSTW-Cable 027 | Microwave Cable                      | SUCOFLEX 104                           | 279083       | HUBER+SUHNER      | 2015/3/2         | 2016/3/1   |
| ETSTW-Cable 028 | Microwave Cable                      | FA147A0015M2020                        | 30064-2      | UTIFLEX           | 2015/1/16        | 2016/1/15  |
| ETSTW-Cable 029 | Microwave Cable                      | FA147A0015M2020                        | 30064-3      | UTIFLEX           | 2014/9/22        | 2015/9/21  |
| ETSTW-Cable 030 | Microwave Cable                      | SUCOFLEX 104 (S_Cable 9)               | 279067       | HUBER+SUHNER      | 2015/3/2         | 2016/3/1   |
| ETSTW-Cable 031 | Microwave Cable                      | SUCOFLEX 104 (S_Cable 10)              | 238092       | HUBER+SUHNER      | 2014/11/26       | 2015/11/25 |
| ETSTW-Cable 043 | Microwave Cable                      | SUCOFLEX 104                           | 317576       | HUBER+SUHNER      | 2014/11/26       | 2015/11/25 |
| ETSTW-Cable 048 | Microwave Cable                      | SUCOFLEX 104                           | 325518       | HUBER+SUHNER      | 2014/11/26       | 2015/11/25 |
| ETSTW-Cable 053 | N TYPE To SMA Cable                  | RG142                                  | None         | JYE BAO CO.,LTD.  | 2015/3/19        | 2016/3/18  |
| ETSTW-Cable 058 | Microwave Cable                      | SUCOFLEX 104                           | none         | HUBER+SUHNER      | 2015/3/19        | 2016/3/18  |
| WTSTW-SW 002    | EMI TEST SOFTWARE                    | EZ EMC                                 | None         | Farad             | Version ETS-03A1 |            |



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## **2.4 General Test Procedure**

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50μH LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

**RADIATION INTERFERENCE:** The test procedure used was ANSI STANDARD C63.4-2009 6.4 using a spectrum analyzer. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was the 100 kHz and the video bandwidth was 300 kHz.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBμV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

|            |                                                         |
|------------|---------------------------------------------------------|
| Freq (MHz) | METER READING + ACF + CABLE LOSS (to the receiver) = FS |
| 33         | 20 dBμV + 10.36 dB/m + 6 dB = 36.36 dBμV/m @3m          |

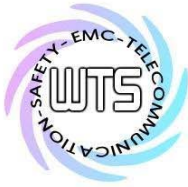
**ANSI STANDARD C63.4-2009 6.3.1 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10<sup>th</sup> harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at. The Registration Number: **930600**

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

**ANSI STANDARD C63.4-2009 10.2.7:** Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M21503-14866-C-1  
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## **3 Test results (enclosure)**

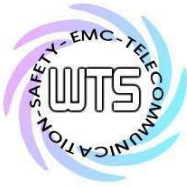
☒ 1st test

☐ test after modification

☐ production test

| TEST CASE                                    | Para. Number  | Required                            | Test passed                         | Test failed              |
|----------------------------------------------|---------------|-------------------------------------|-------------------------------------|--------------------------|
| Transmission Requirements                    | FCC 15.231(a) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission                            | FCC 15.231(b) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Bandwidth of Emission                        | FCC 15.231(c) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Frequency Tolerance                          | FCC 15.231(d) | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Period Alternate Field Strength Requirements | FCC 15.231(e) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Antenna Requirement                          | FCC 15.203    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Conducted Measurement at (AC) Power Line     | FCC 15.207    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |

**The following is intentionally left blank.**



Registration number: W6M21503-14866-C-1

FCC ID: SU7DOL1000-433RC4

## **3.1 Transmission Requirements**

FCC 15.231(a)

### **3.1.1 Limit of Transmission Time**

☒ According to 15.231(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.

☐ According to 15.231(a)(2), a transmitter activated automatically shall cease transmission within 5 seconds after activation.

☐ According to 15.231(a)(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.

☐ According to 15.231(a)(4), intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

☐ According to 15.231(a)(5), transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmission are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

### **3.1.2 Active Time**

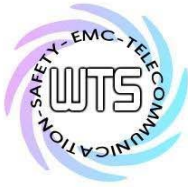
☒ This manually operated transmitter employs a switch that automatically deactivate the transmitter within 4.78998 s of being released.

☐ This transmitter is operated by automatic activation and active will cease transmission in \_\_\_\_\_ ms after activation..

☐ Others: This product is employed for radio control purpose during emergencies. When emergency switch is pulled down, the EUT will transmit a signal around \_\_\_\_\_ ms and continue to retransmit the signal every 5 minutes during the pendency of the alarm condition.

Explanation: See attached diagrams in appendix.

Test equipment used: ETSTW-RE 055, ETSTW-RE 004



# ***Worldwide Testing Services(Taiwan) Co., Ltd.***

Registration number: W6M21503-14866-C-1

FCC ID: SU7DOL1000-433RC4

## **3.2 Output Power (Field Strength)**

Model: DOL1000MF\_433RC Date: 2015/03/24

Mode: Power Temperature: 24 °C

Engineer: Leon

Polarization: Horizontal Humidity: 60 %

| Frequency<br>(MHz) | Reading<br>(dBuV)<br>Peak | Factor<br>(dB)<br>Corr. Duty |       | Result @3m<br>(dBuV/m)<br>Peak Ave. |       | Limit @3m<br>(dBuV/m)<br>Peak Ave. |       | Margin<br>(dB) | Table<br>Degree<br>(Deg.) | Ant.<br>High<br>(cm) |
|--------------------|---------------------------|------------------------------|-------|-------------------------------------|-------|------------------------------------|-------|----------------|---------------------------|----------------------|
| 433.8943           | 39.05                     | 19.64                        | -1.20 | 58.69                               | 57.49 | 100.80                             | 80.80 | -23.31         | 310                       | 100                  |

Polarization: Vertical

| Frequency<br>(MHz) | Reading<br>(dBuV)<br>Peak | Factor<br>(dB)<br>Corr. Duty |       | Result @3m<br>(dBuV/m)<br>Peak Ave. |       | Limit @3m<br>(dBuV/m)<br>Peak Ave. |       | Margin<br>(dB) | Table<br>Degree<br>(Deg.) | Ant.<br>High<br>(cm) |
|--------------------|---------------------------|------------------------------|-------|-------------------------------------|-------|------------------------------------|-------|----------------|---------------------------|----------------------|
| 433.8963           | 47.48                     | 19.64                        | -1.20 | 67.12                               | 65.92 | 100.80                             | 80.80 | -14.88         | 0                         | 100                  |

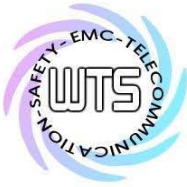
Limit 15.231(b)

| Fundamental Frequency<br>(MHz) | Field strength of fundamental, limit<br>μV/m                    |
|--------------------------------|-----------------------------------------------------------------|
| 40.66 – 40.70                  | 2,250                                                           |
| 70 – 130                       | 1,250                                                           |
| 130 – 174                      | 1,250 to 3,750                                                  |
| 174 – 260                      | 3,750                                                           |
| 260 – 470                      | 3,750 to 12,500**<br>(433.92 MHz: 80.80 dBμV/m = 10996.68 μV/m) |
| Above 470                      | 12,500                                                          |

\*\* linear interpolation

Explanation: See attached diagrams in appendix.

Test equipment used: ETSTW-RE 004, ETSTW-RE 111



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## **3.3 Out of Band Radiated Emissions**

FCC Rule: 15.231(b) , 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Guidance on Measurement of pulsed emission: 15.35(c)

“the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 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.”

Duty Cycle correction =  $20 \log (\text{dwell time}/100\text{ms or one period})$

Limits:

For frequencies (Average measurements)

Correction factor conform 15.35 (c) (Average measurements)

Duty cycle correction :

Max. Peak reading – duty cycle correction

Max permitted average Limits = Max permitted Fundamental limit – 20 dB

For example for 310 fundamental carrier:

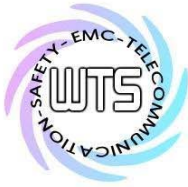
Max permitted average Limit:  $80.80 \text{ dB}\mu\text{V/m} - 20 \text{ dB} = 60.80 \text{ dB}\mu\text{V/m}$

For frequencies above 1GHz (Peak measurements).

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)

Explanation: See attached diagrams in appendix.

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111



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## **3.4 Transmitter Radiated Emissions in restricted Bands**

FCC Rules: 15.231 (b), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 8000 MHz.

For radiated emission tests, the analyzer setting was as followings:

RES BW VID BW

Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)

Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

| Frequency of Emission<br>(MHz) | Field strength<br>(microvolts/meter) | Field Strength<br>(dB microvolts/meter) |
|--------------------------------|--------------------------------------|-----------------------------------------|
| 30 – 88                        | 100                                  | 40.0                                    |
| 88 – 216                       | 150                                  | 43.5                                    |
| 216 – 960                      | 200                                  | 46.0                                    |
| Above 960                      | 500                                  | 54.0                                    |

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of pulsed emission:

“If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

For frequencies above 1GHz (Average measurements).

The correction factor, based on the channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction =  $20 \log (\text{dwell time}/100\text{ms})$

No duty cycle correction was added to the reading

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)

Above 960 MHz

For mode DSSS CW:  $54 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Explanation: See attached diagrams in appendix.



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## 3.5 Spurious Emission radiated, Transmitter

Spurious emission was measured with modulation (declared by manufacturer).

The limits on the field strength of the spurious emission in the table § 15.231(b) are based on the fundamental frequency of the intentional radiator. Spurious emission 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.

In addition, radiated emission which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (See § 15.205(c)).

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

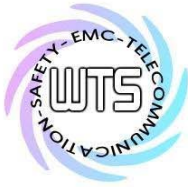
In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

Summary table with radiated data of the test plots

Model: DOL1000MF\_433RC Date: 2015/3/25  
 Mode: 433.9 MHz Temperature: 24 °C Engineer: Leon  
 Polarization: Humidity: 60 %

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 131.1824        | 3.32           | peak     | 14.86       | 18.18           | 43.50          | -25.32      | 30                  | 100            |
| 271.3226        | 4.54           | peak     | 15.15       | 19.69           | 46.00          | -26.31      | 155                 | 100            |

| Frequency (MHz) | Reading (dBuV) Peak | Factor (dB) Corr. | Duty  | Result @3m (dBuV/m) Peak Ave. | Limit @3m (dBuV/m) Peak Ave. | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|---------------------|-------------------|-------|-------------------------------|------------------------------|-------------|---------------------|----------------|
| 444.4890        | 4.59                | 19.91             | -1.20 | 24.50 23.30                   | 80.80 60.80                  | -37.50      | 110                 | 100            |
| 868.1363        | 24.95               | 27.84             | -1.20 | 52.79 51.59                   | 80.80 60.80                  | -9.21       | 25                  | 100            |
| 1300.6010       | 59.09               | -9.23             | -1.20 | 49.86 48.66                   | 74.00 54.00                  | -5.34       | 75                  | 100            |
| 1735.4710       | 54.96               | -7.41             | -1.20 | 47.55 46.35                   | 80.80 60.80                  | -14.45      | 125                 | 100            |
| 3038.0760       | 54.61               | -3.32             | -1.20 | 51.29 50.09                   | 80.80 60.80                  | -10.71      | 85                  | 100            |
| 3470.9420       | 58.96               | -2.77             | -1.20 | 56.19 54.99                   | 80.80 60.80                  | -5.81       | 210                 | 100            |
| 3907.8160       | 52.78               | -1.09             | -1.20 | 51.69 50.49                   | 74.00 54.00                  | -3.51       | 170                 | 100            |
| 4336.6730       | 52.03               | -0.38             | -1.20 | 52.03 50.83                   | 74.00 54.00                  | -3.17       | 210                 | 100            |



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Polarization: Vertical

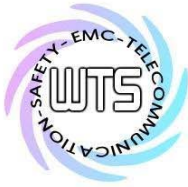
| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 126.3126        | 4.33           | peak     | 14.49       | 18.82           | 43.50          | -24.68      | 125                 | 100            |
| 283.2265        | 3.80           | peak     | 15.70       | 19.50           | 46.00          | -26.50      | 75                  | 100            |

| Frequency (MHz) | Reading (dBuV) Peak | Factor (dB) Corr. Duty | Result @3m (dBuV/m) Peak Ave. | Limit @3m (dBuV/m) Peak Ave. | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|---------------------|------------------------|-------------------------------|------------------------------|-------------|---------------------|----------------|
| 433.2665        | 5.24                | 19.62 -1.20            | 24.86 23.66                   | 80.80 60.80                  | -37.14      | 90                  | 100            |
| 868.1363        | 26.15               | 27.84 -1.20            | 53.99 52.79                   | 80.80 60.80                  | -8.01       | 50                  | 100            |
| 1300.6010       | 57.81               | -9.23 -1.20            | 48.58 47.38                   | 74.00 54.00                  | -6.62       | 95                  | 100            |
| 1735.4710       | 52.89               | -7.41 -1.20            | 45.48 44.28                   | 80.80 60.80                  | -16.52      | 130                 | 100            |
| 3038.0760       | 52.61               | -3.32 -1.20            | 49.29 48.09                   | 80.80 60.80                  | -12.71      | 50                  | 100            |
| 3470.9420       | 58.59               | -2.77 -1.20            | 55.82 54.62                   | 80.80 60.80                  | -6.18       | 170                 | 100            |
| 3907.8160       | 52.47               | -1.09 -1.20            | 51.38 50.18                   | 74.00 54.00                  | -3.82       | 165                 | 100            |
| 4336.6730       | 50.69               | -0.38 -1.20            | 50.69 49.49                   | 74.00 54.00                  | -4.51       | 145                 | 100            |

- Note**
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
  2. **The formula of measured value as: Test Result = Reading + Correction Factor**
  3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
  4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
  5. **Measurement uncertainty for 3m measurement: 30-1000 MHz =  $\pm 4.32$  dB, 1-18 GHz =  $\pm 4.95$  dB, 18-40 GHz =  $\pm 2.94$  dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
  6. **See attached diagrams in appendix.**

All other not noted test plots do not contain significant test results in relation to the limits  
Test results: The unit meet the FCC requirements.

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111



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### **3.6 Channel Bandwidth**

Measurement of Necessary Bandwidth (BN)

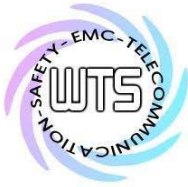
| Used frequency | Bandwidth   | Limit      |
|----------------|-------------|------------|
| 433.9 MHz      | 75.1503 kHz | 1.0848 MHz |

Explanation: The bandwidth fulfills the requirements of FCC § 15.231,  
See attached diagrams in appendix.

Limits:

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.

Test equipment used: ETSTW-RE 055, ETSTW-RE 004



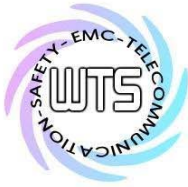
Registration number: W6M21503-14866-C-1  
FCC ID: SU7DOL1000-433RC4

## **3.7 Antenna requirement**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. 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 Section 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.

Explanation: This PCB antenna is integral antenna which passes antenna requirement.

|                                      |                                            |                                |
|--------------------------------------|--------------------------------------------|--------------------------------|
| The equipment meets the requirements | yes<br><input checked="" type="checkbox"/> | no<br><input type="checkbox"/> |
|--------------------------------------|--------------------------------------------|--------------------------------|



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### 3.8 Duty Cycle

The correction factor, based on the channel dwell time in a 100ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the measured value.

Average Reading = Peak Reading (dBuV/m) + Duty Cycle Correction

Duty Cycle Correction =  $20 \log (\text{Cycle})$

In order to determine the Duty Cycle, the EUT is measured as:

| Testing Mode      | T period<br>(ms) | T on<br>(ms) | Duty Cycle  | Duty Cycle Correction<br>$20 \cdot \log(\text{Duty Cycle})$ |
|-------------------|------------------|--------------|-------------|-------------------------------------------------------------|
| Transmitting Mode | 100              | 87.09419     | 0.870941884 | -1.20                                                       |

Explanation: See attached diagrams in appendix.

Test equipment used: ETSTW-RE 055, ETSTW-RE 004



## **3.9 Conducted Measurement at (AC) Power Line**

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

| Frequency | Level                     |                        |
|-----------|---------------------------|------------------------|
|           | quasi-peak (dB $\mu$ V/m) | average (dB $\mu$ V/m) |
| -- kHz    | --                        | --                     |

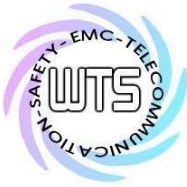
### **Note**

- 1. The formula of measured value as: Test Result = Reading + Correction Factor**
- 2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss**
- 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
- 4. All not in the table noted test results are more than 20 dB below the relevant limits.**
- 5. Measurement uncertainty =  $\pm 1.67$  dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .**
- 6. This test is not required because the EUT is battery-used.**

### **Limits:**

| Frequency of Emission (MHz) | Conducted Limit (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
|                             | Quasi Peak                   | Average  |
| 0.15-0.5                    | 66 to 56                     | 56 to 46 |
| 0.5-5                       | 56                           | 46       |
| 5-30                        | 60                           | 50       |

Test equipment used: ETSTW-CE 001, ETSTW-CE 003, ETSTW-CE 016, ETSTW-RE 045



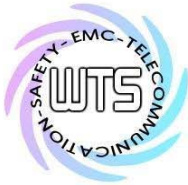
## **Appendix**

### **A Measurement diagrams**

1. Active Time
2. Output Power
3. Spurious Emissions radiated
4. Bandwidth
5. Duty Cycle

### **B Photos**

1. External Photos
2. Internal Photos
3. Set Up Photos

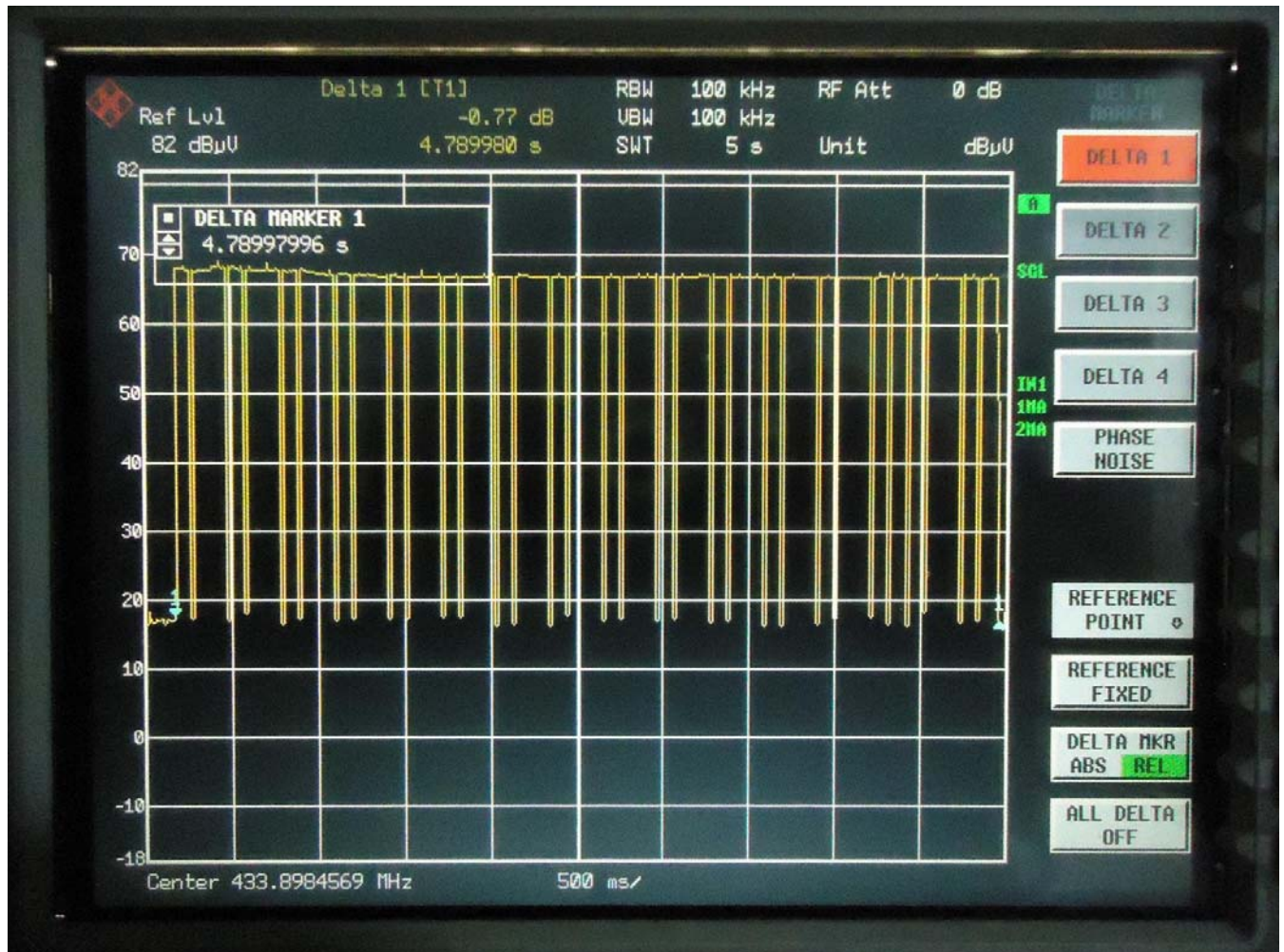


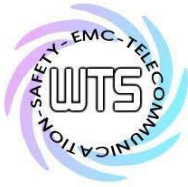
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Active Time





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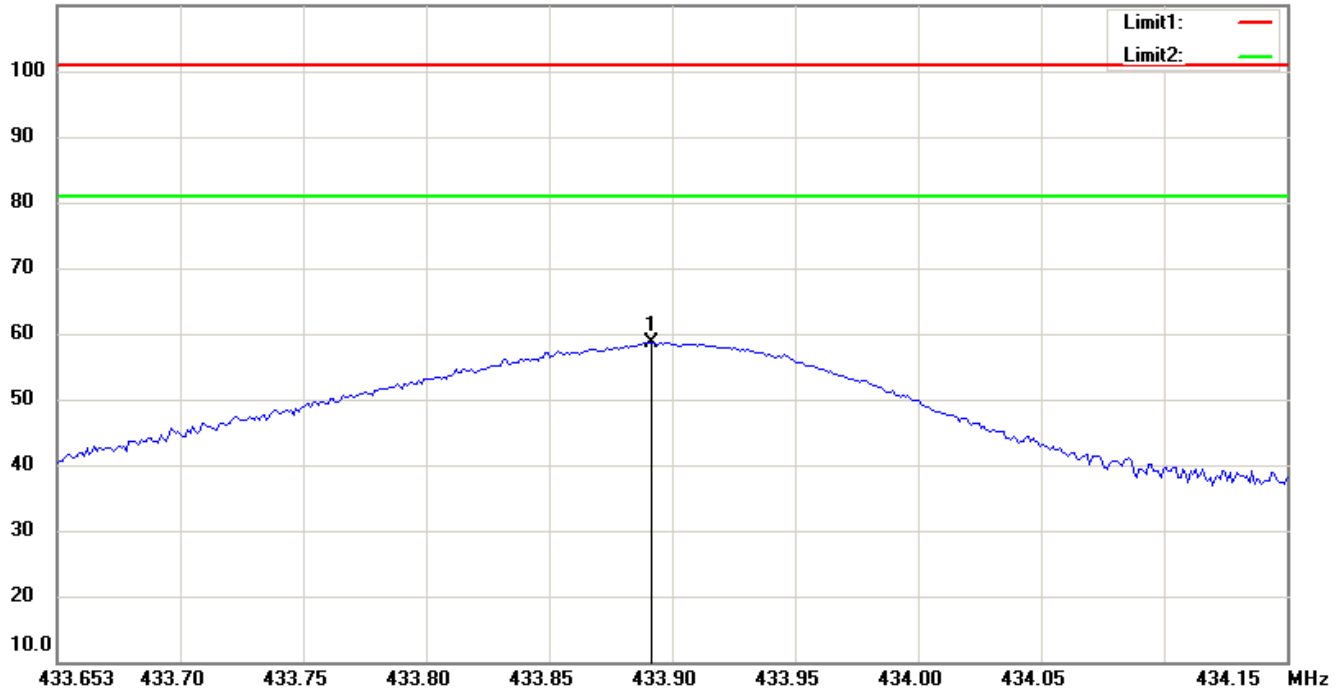
Registration number: W6M21503-14866-C-1

FCC ID: SU7DOL1000-433RC4

## Output Power

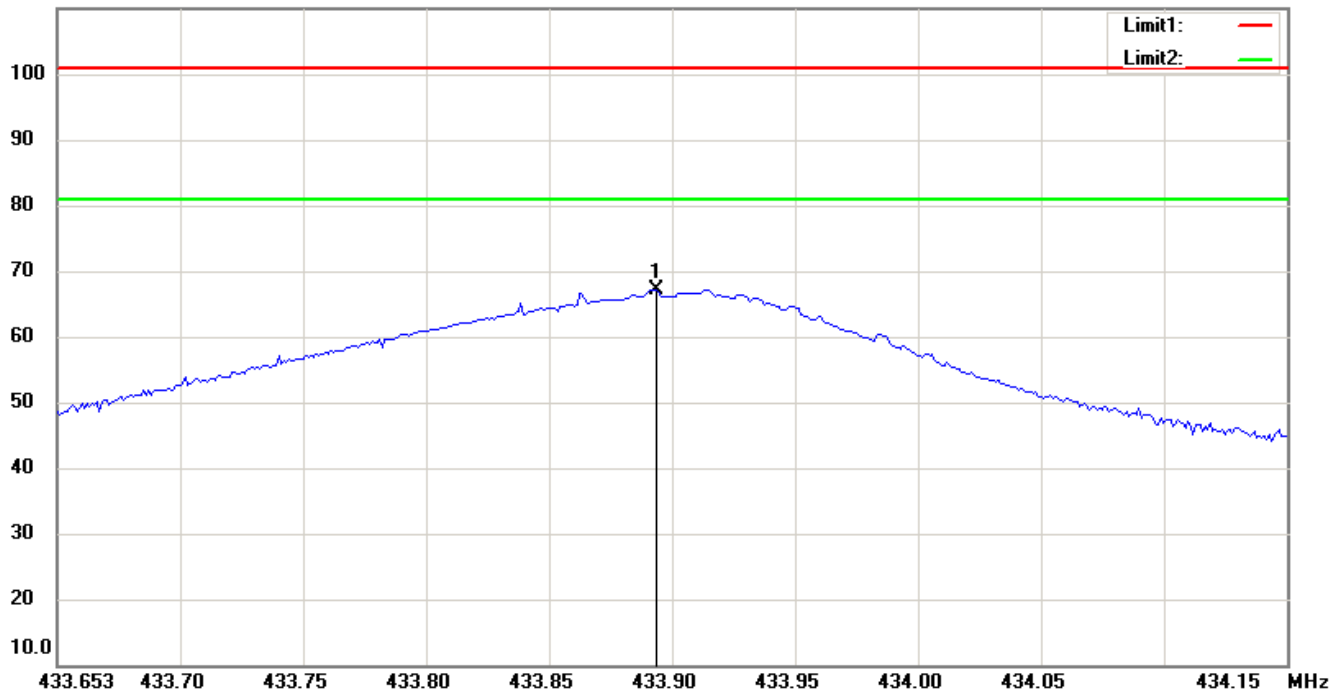
Antenna Polarization H

110.0 dBuV/m



Antenna Polarization V

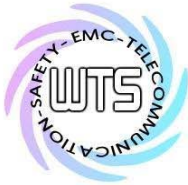
110.0 dBuV/m



### Note:

Up Line: Peak Limit Line, Down Line: Ave Limit Line

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of Field Strength test data of this test report.



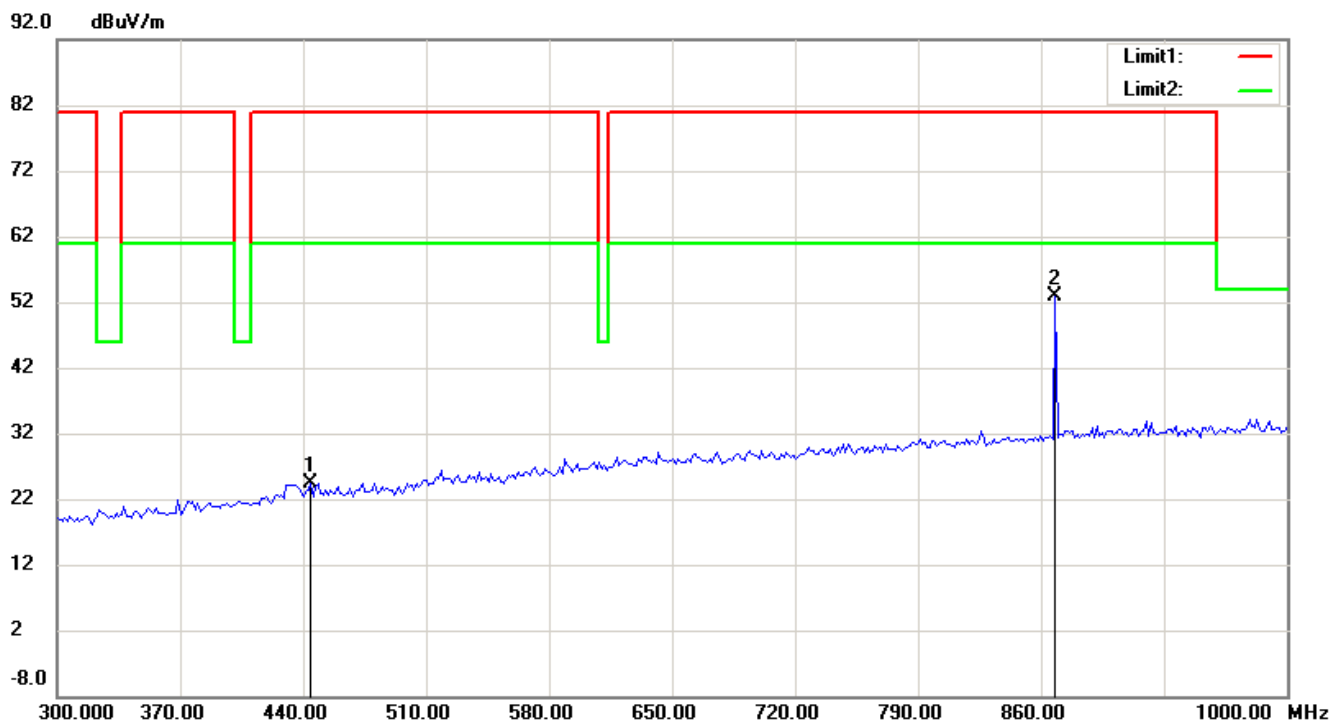
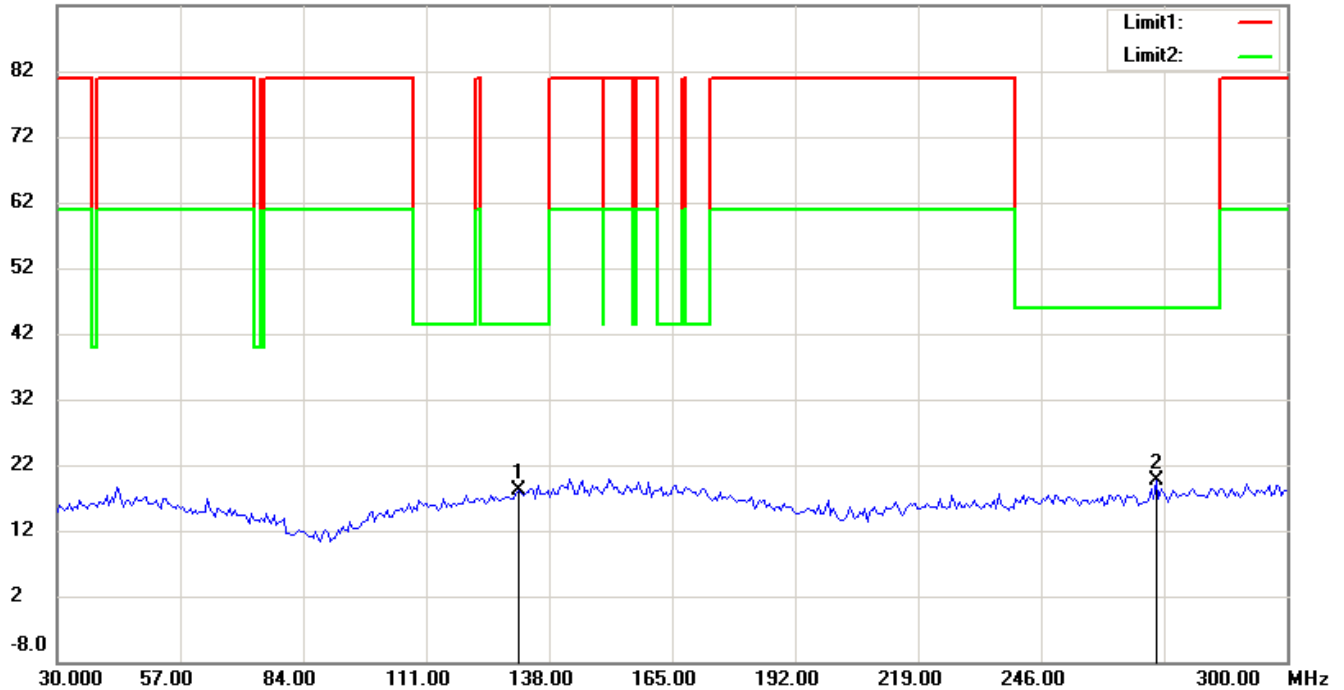
Registration number: W6M21503-14866-C-1

FCC ID: SU7DOL1000-433RC4

## Spurious Emissions radiated

Antenna Polarization H

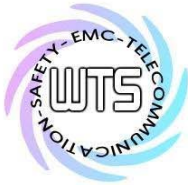
92.0 dBuV/m



### Note:

Up Line: Peak Limit Line, Down Line: Ave Limit Line

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

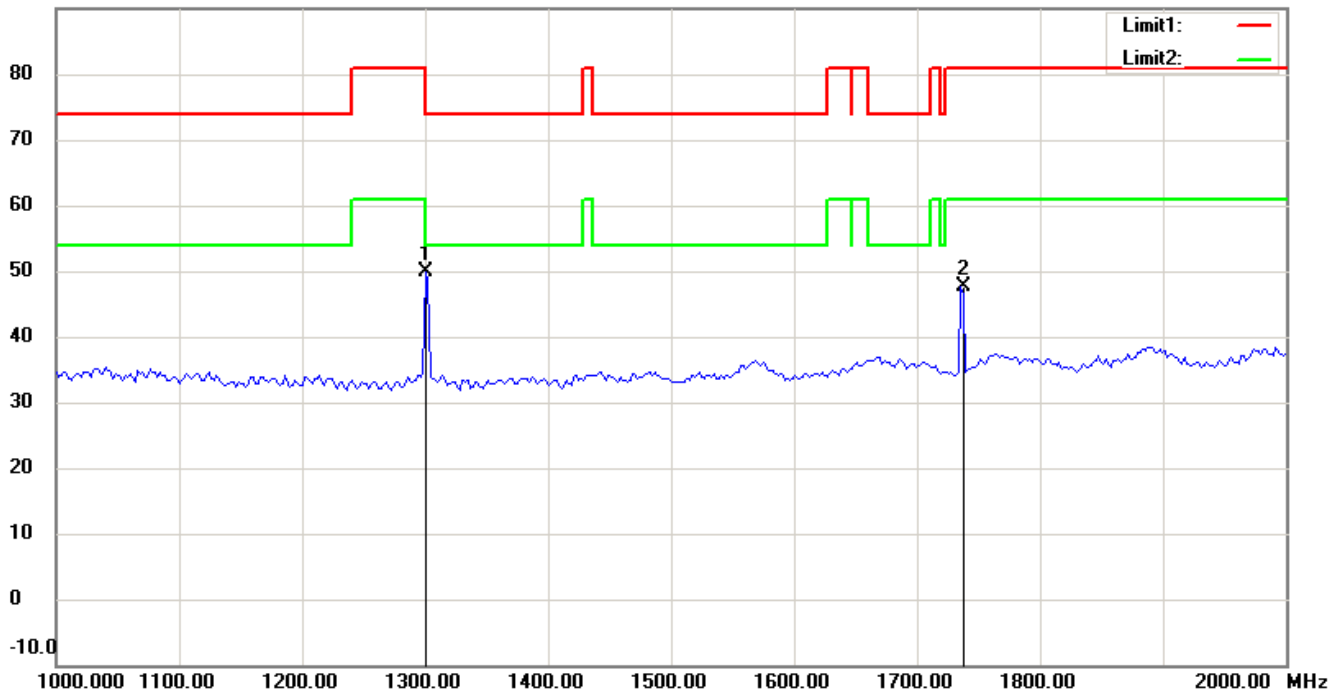


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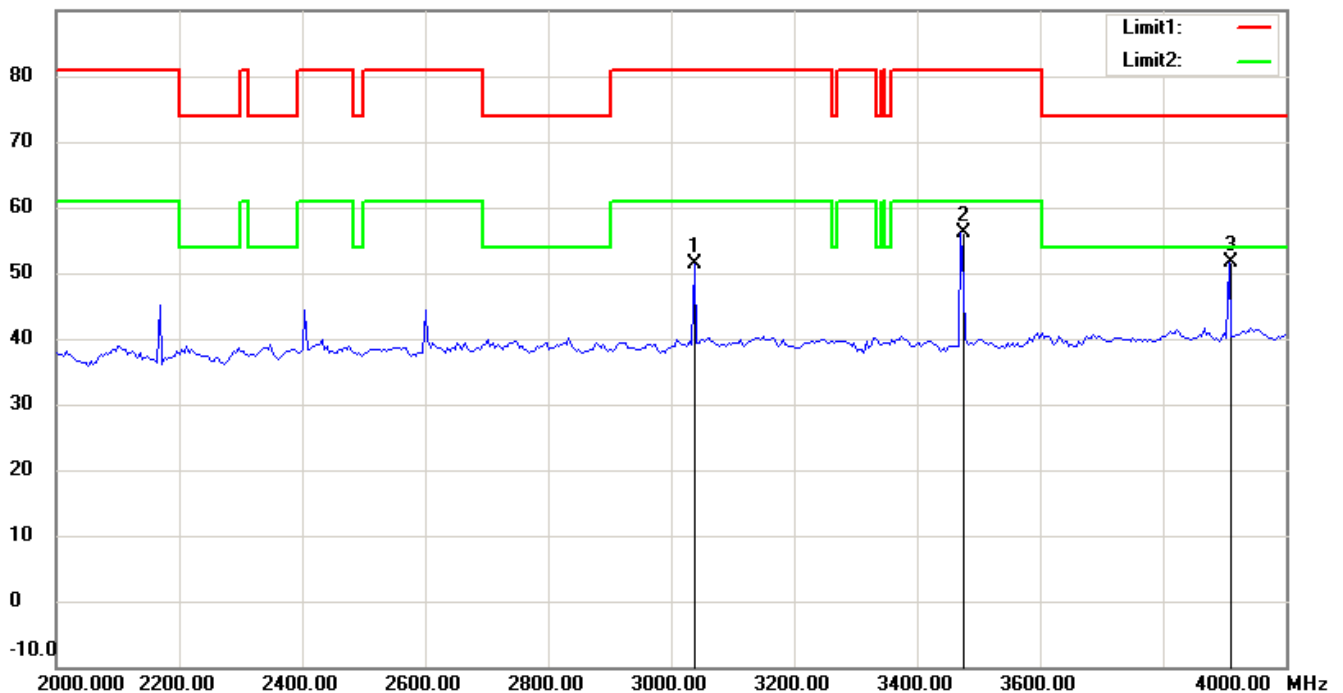
Registration number: W6M21503-14866-C-1

FCC ID: SU7DOL1000-433RC4

90.0 dBuV/m



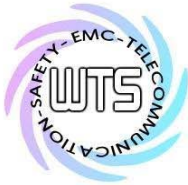
90.0 dBuV/m



## Note:

Up Line: Peak Limit Line, Down Line: Ave Limit Line

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

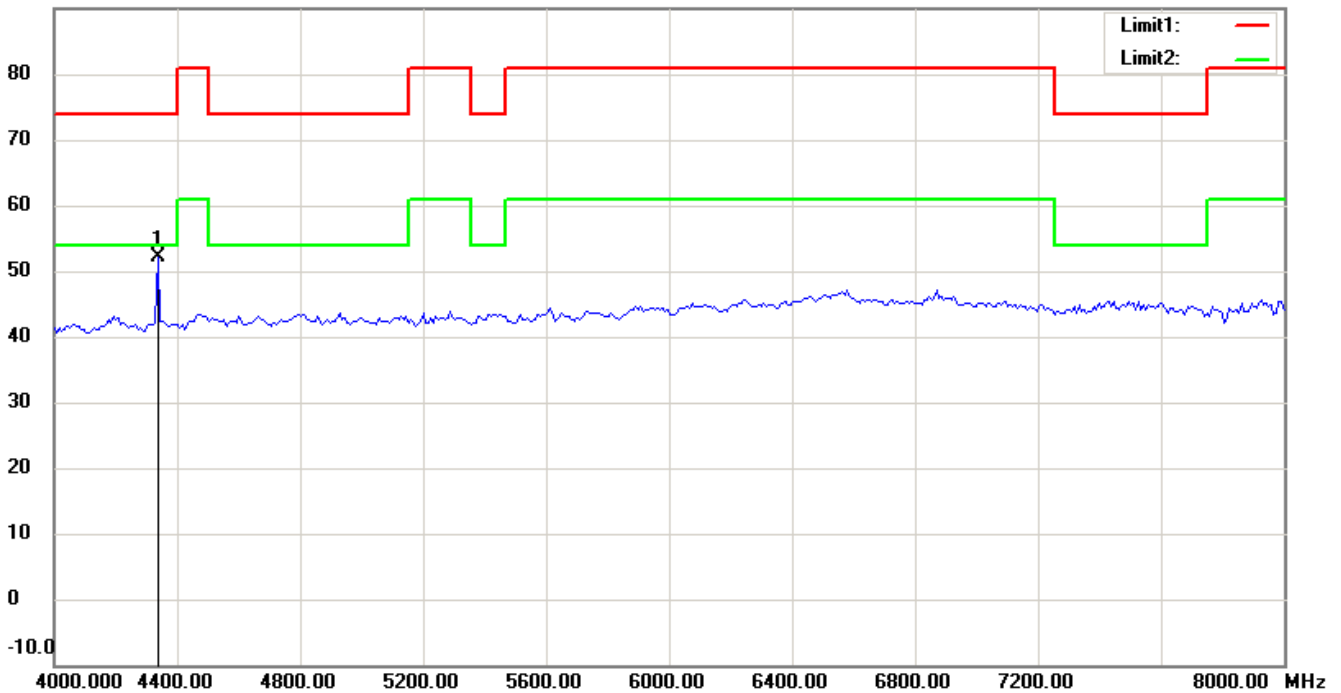


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Registration number: W6M21503-14866-C-1

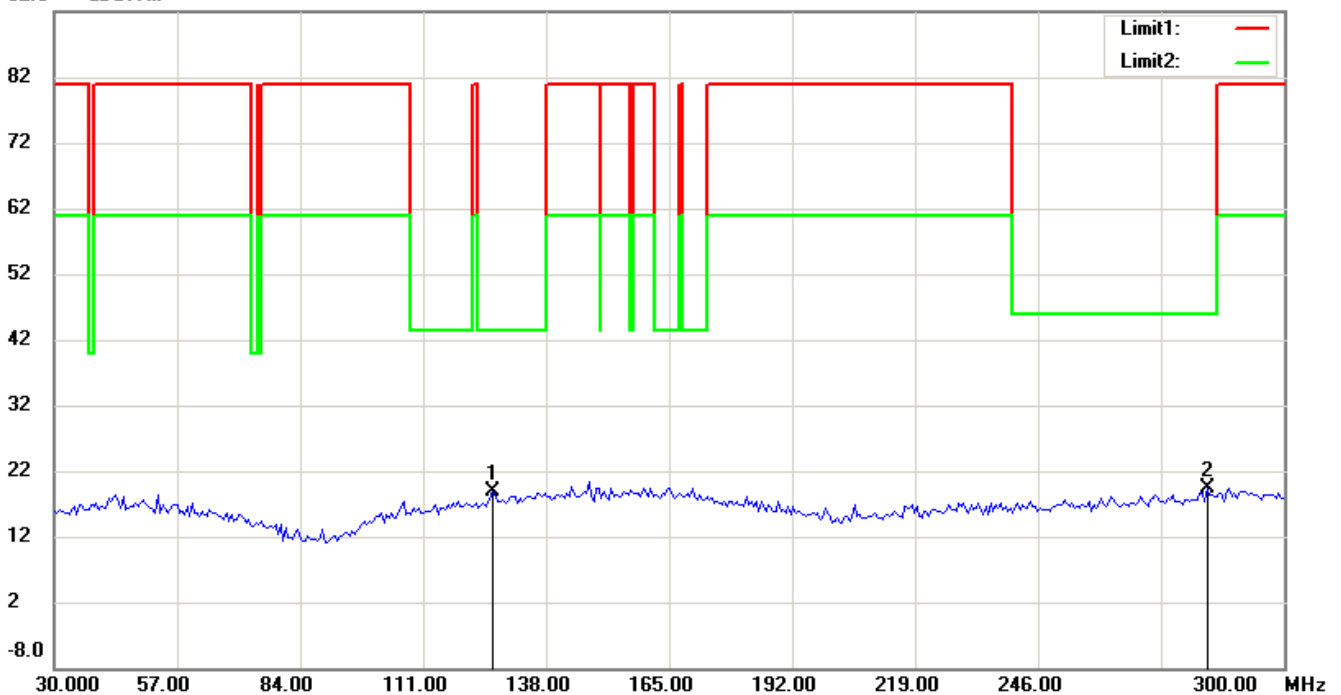
FCC ID: SU7DOL1000-433RC4

90.0 dBuV/m



Antenna Polarization V

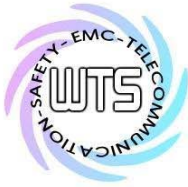
92.0 dBuV/m



## Note:

Up Line: Peak Limit Line, Down Line: Ave Limit Line

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

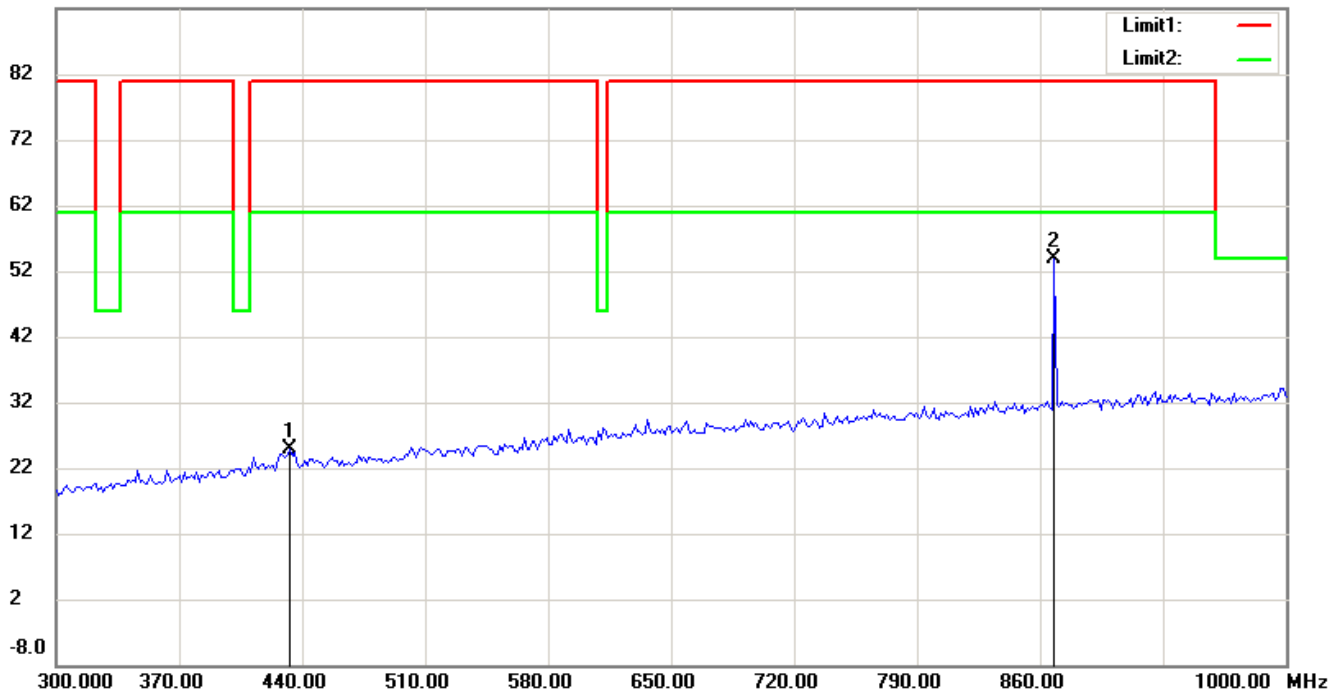


# Worldwide Testing Services(Taiwan) Co., Ltd.

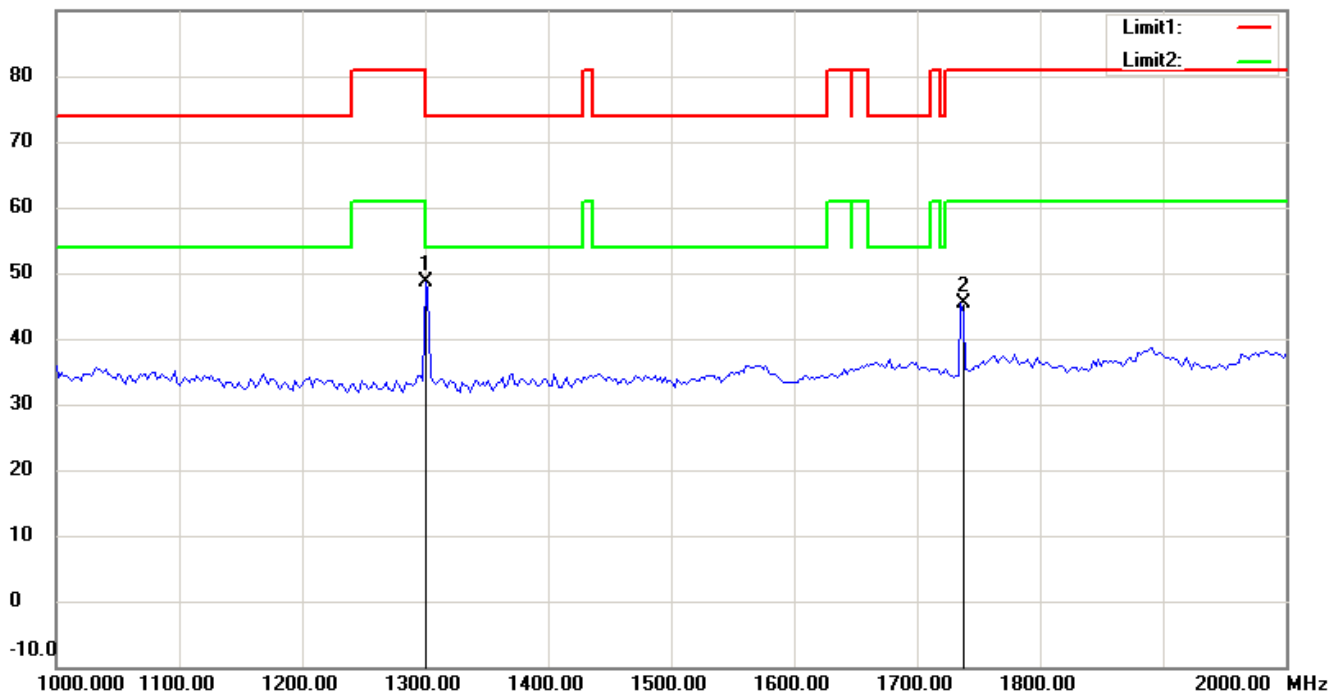
Registration number: W6M21503-14866-C-1

FCC ID: SU7DOL1000-433RC4

92.0 dBuV/m



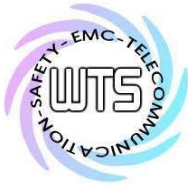
90.0 dBuV/m



## Note:

Up Line: Peak Limit Line, Down Line: Ave Limit Line

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

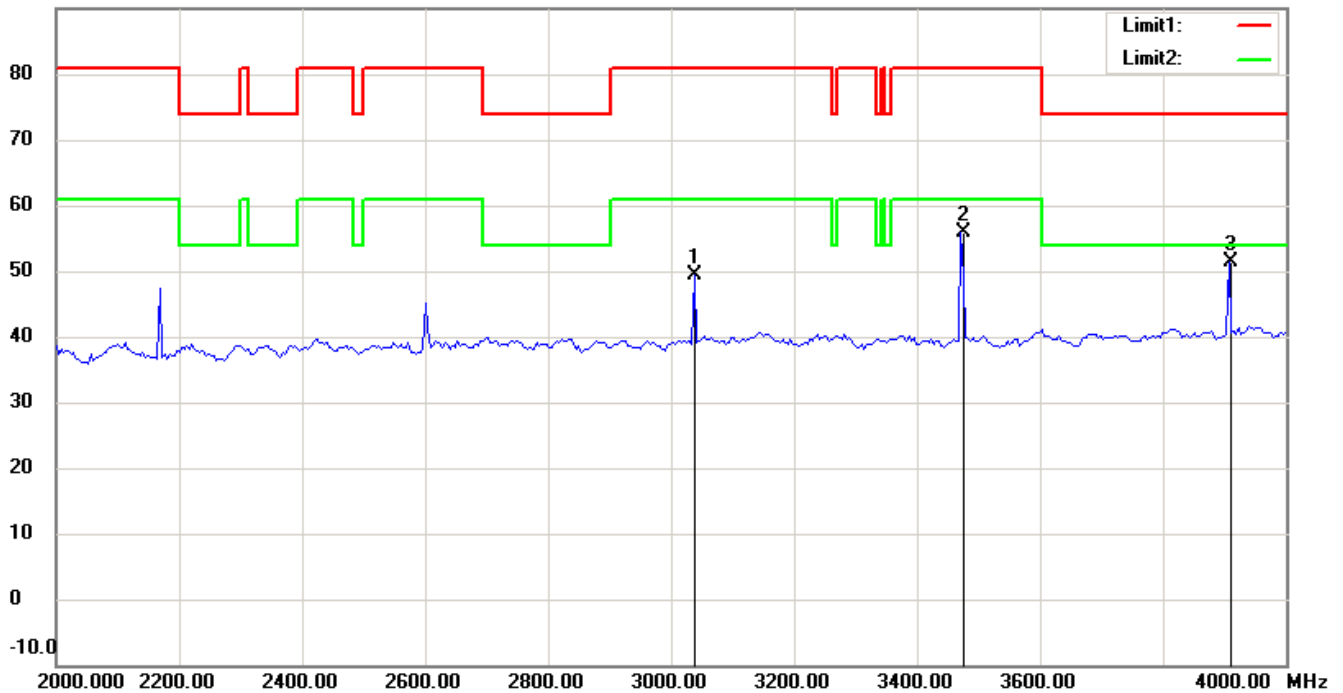


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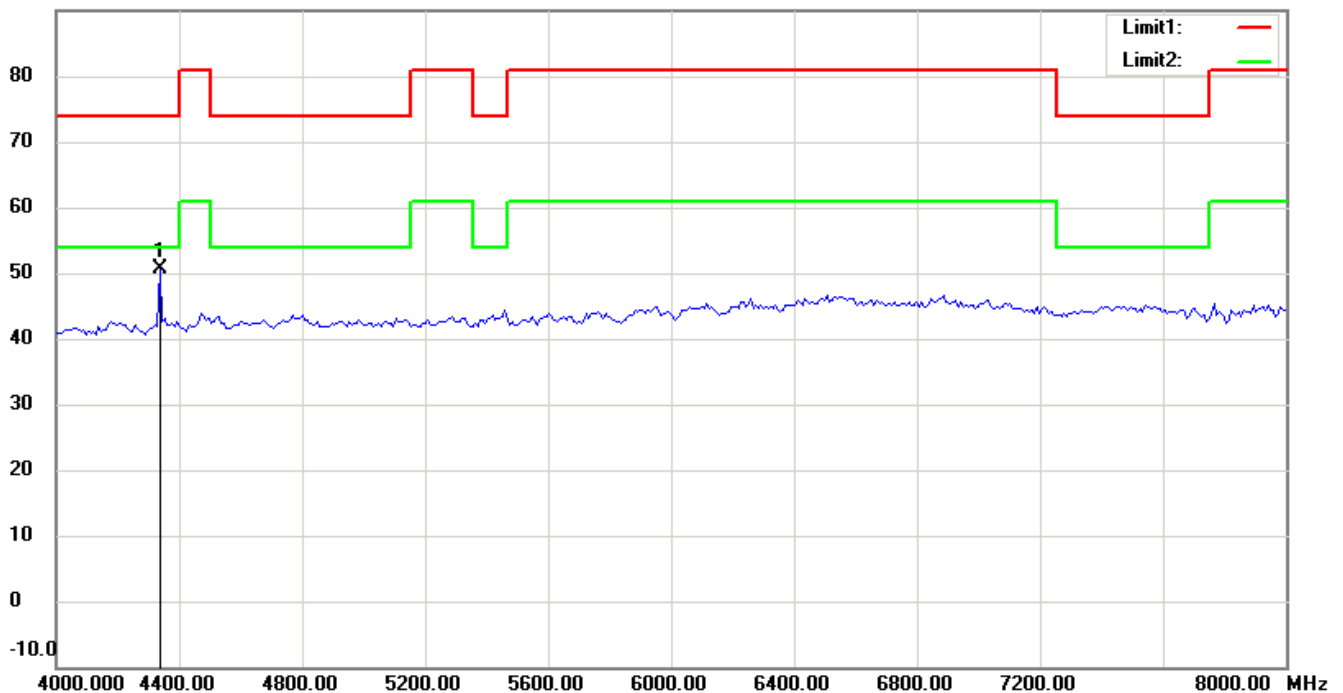
Registration number: W6M21503-14866-C-1

FCC ID: SU7DOL1000-433RC4

90.0 dBuV/m



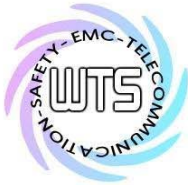
90.0 dBuV/m



## Note:

Up Line: Peak Limit Line, Down Line: Ave Limit Line

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

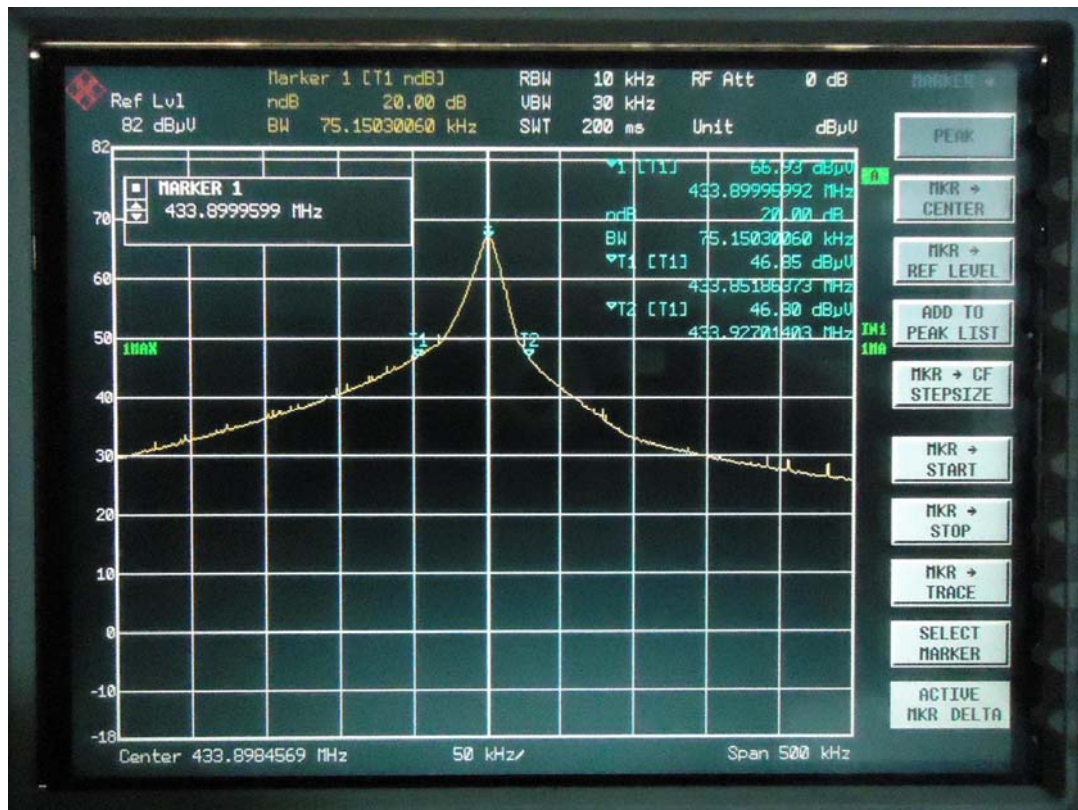


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Registration number: W6M21503-14866-C-1

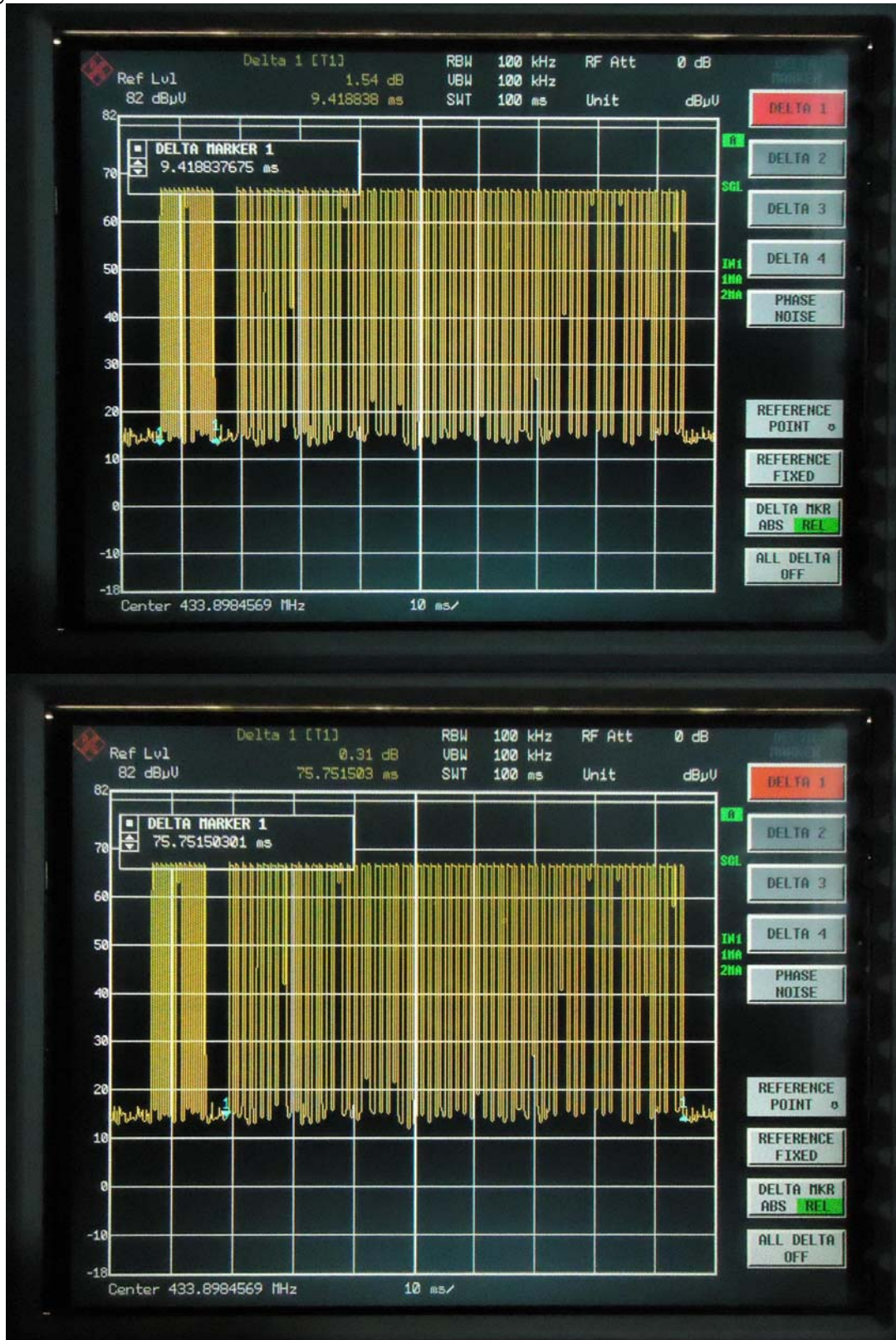
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## Bandwidth

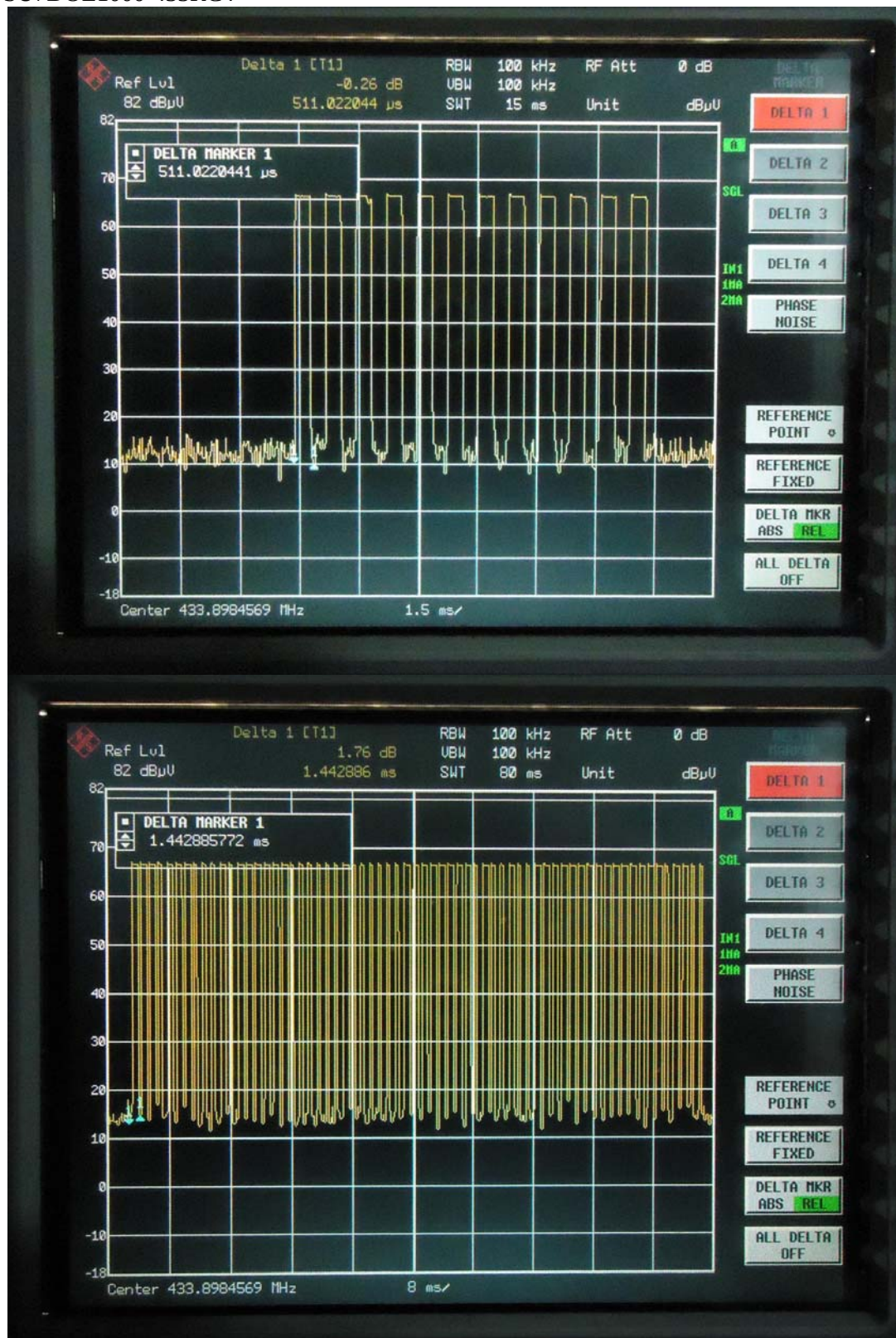


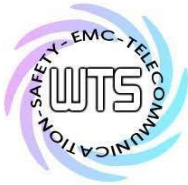
Registration number: W6M21503-14866-C-1  
FCC ID: SU7DOL1000-433RC4

## Duty Cycle



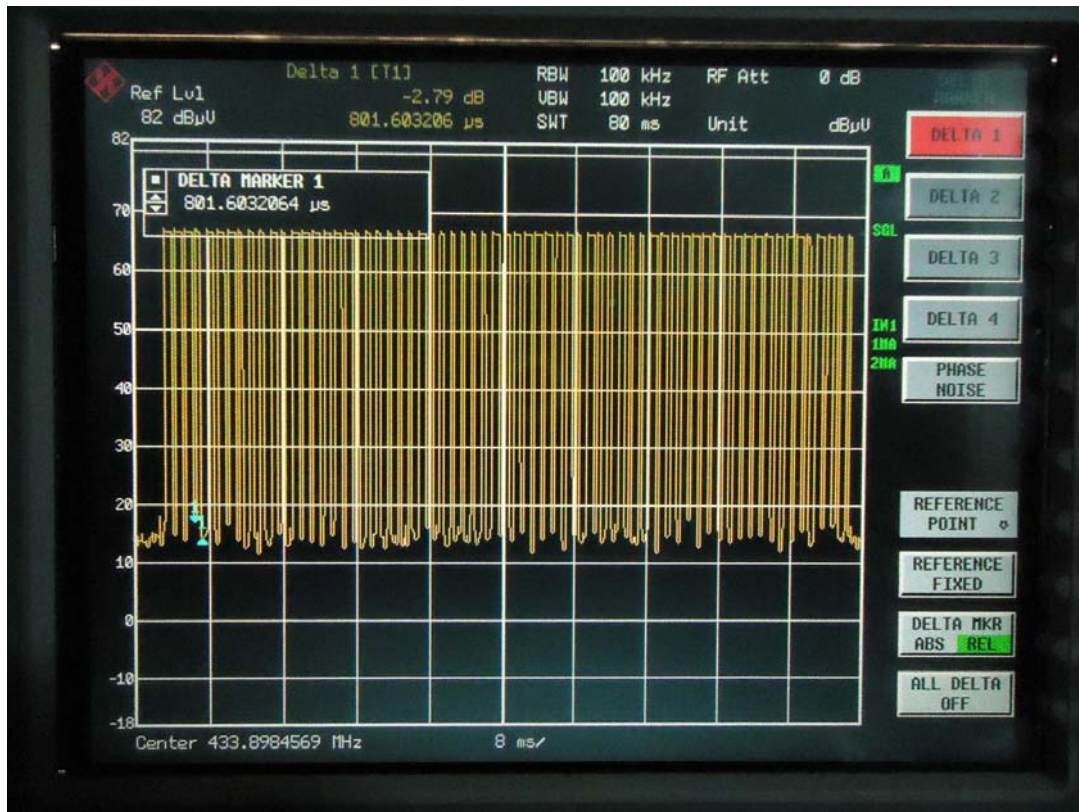
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FCC ID: SU7DOL1000-433RC4

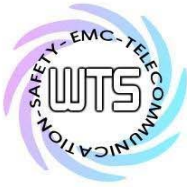




## ***Worldwide Testing Services(Taiwan) Co., Ltd.***

Registration number: W6M21503-14866-C-1  
FCC ID: SU7DOL1000-433RC4



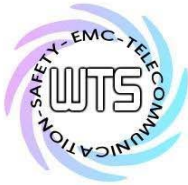


## Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21503-14866-C-1  
FCC ID: SU7DOL1000-433RC4

### External Photos

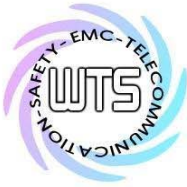




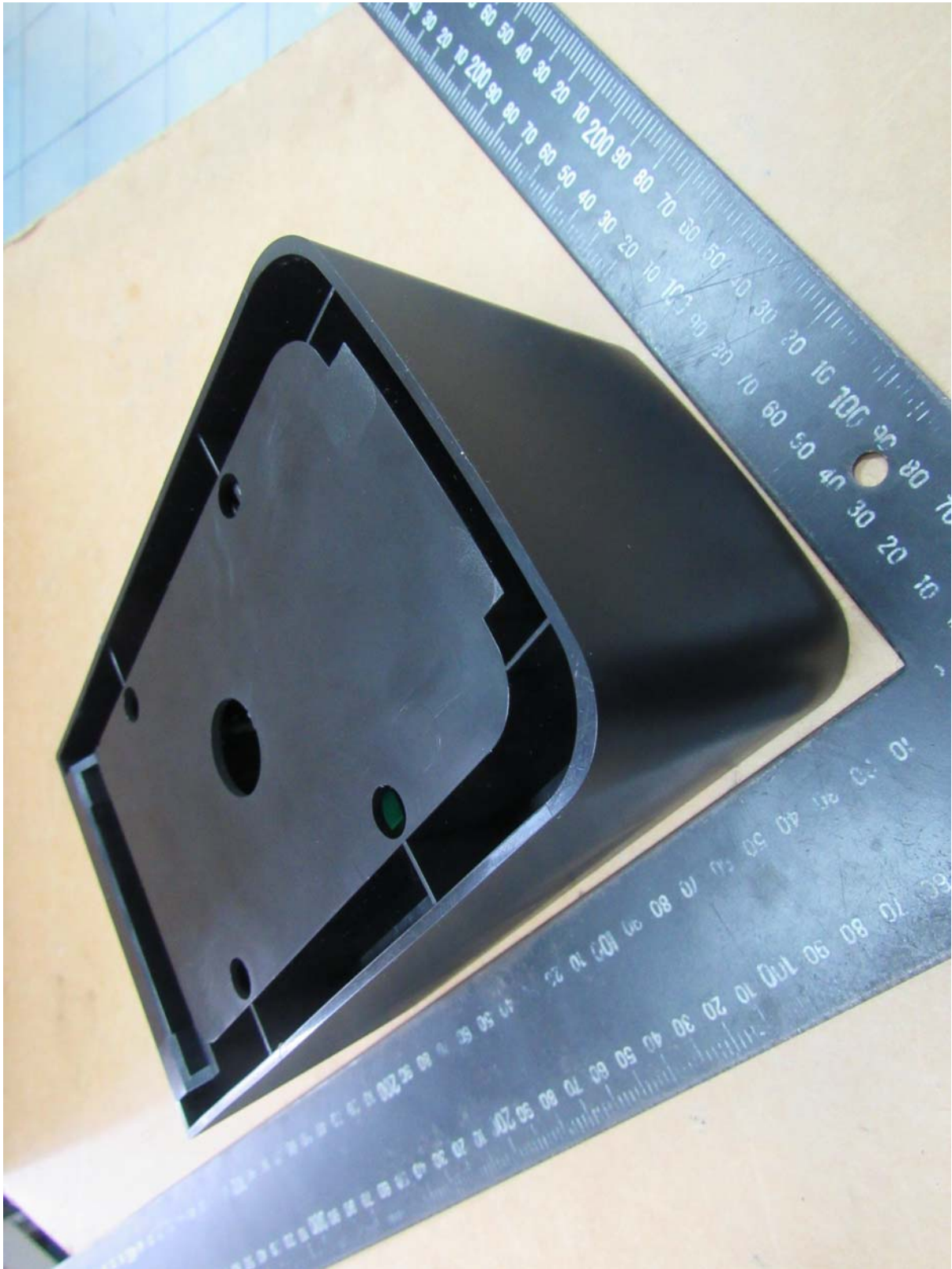
## **Worldwide Testing Services(Taiwan) Co., Ltd.**

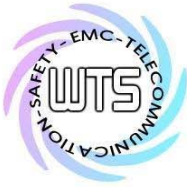
Registration number: W6M21503-14866-C-1  
FCC ID: SU7DOL1000-433RC4





Registration number: W6M21503-14866-C-1  
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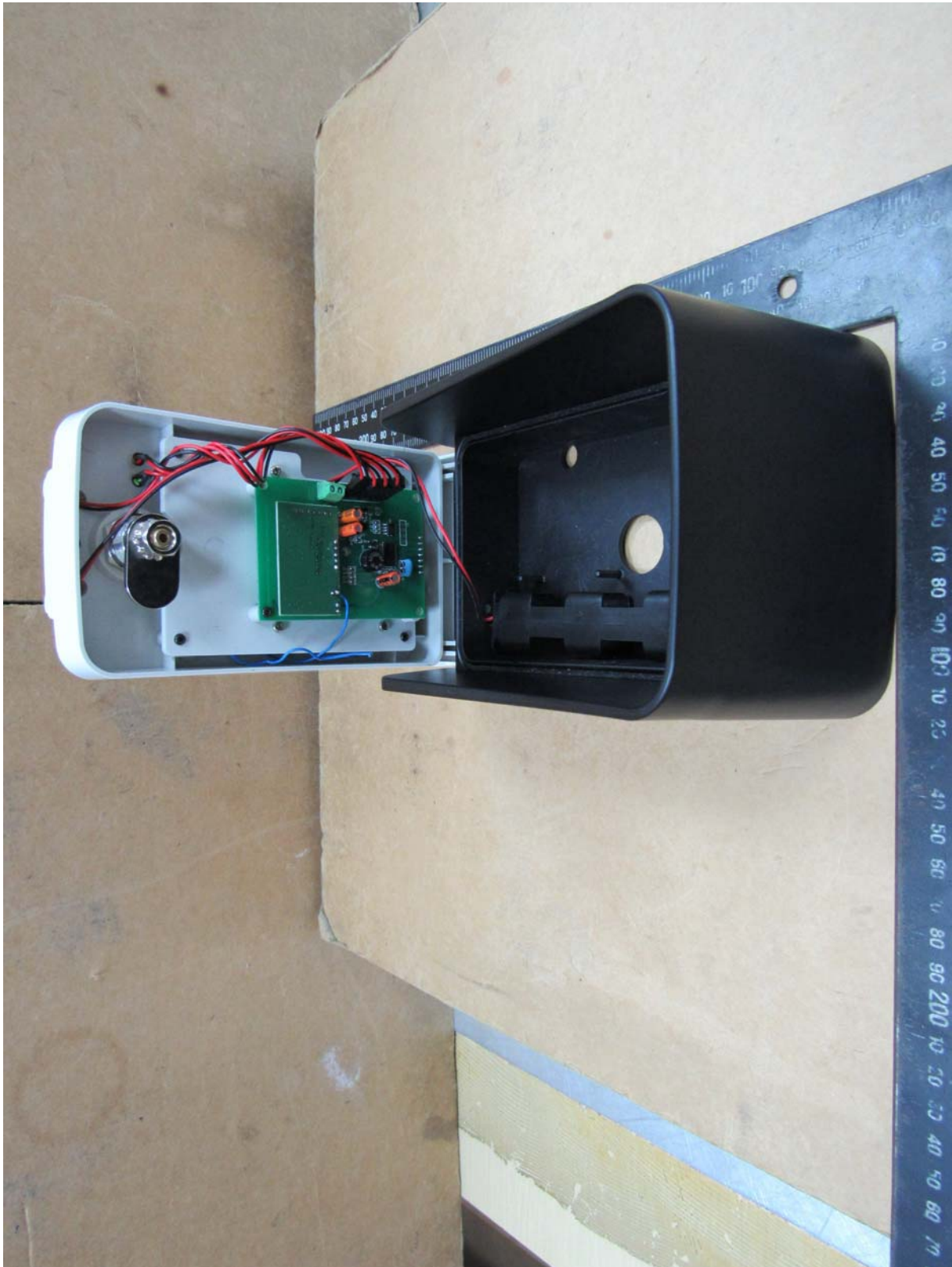




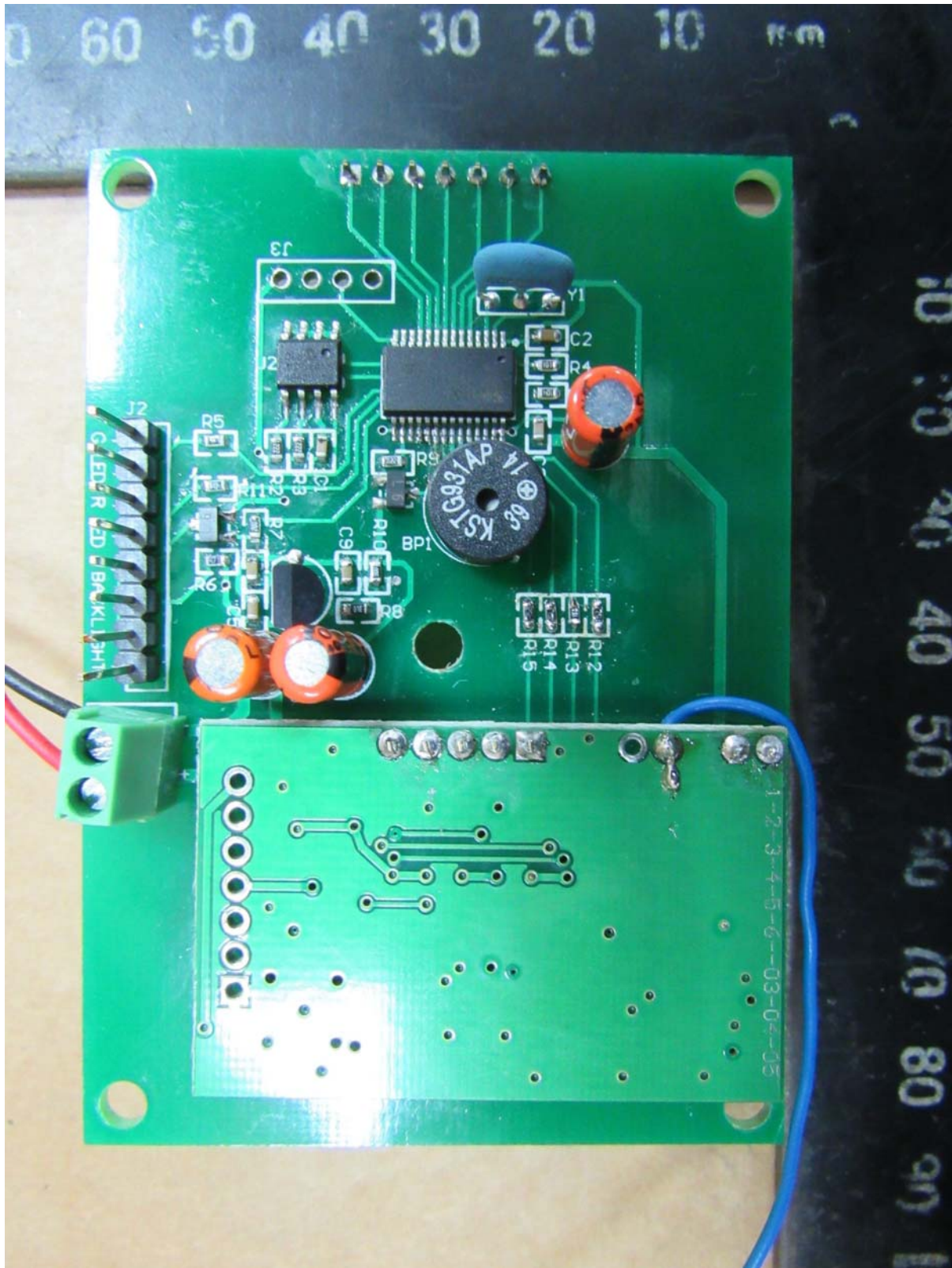
## ***Worldwide Testing Services(Taiwan) Co., Ltd.***

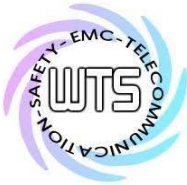
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FCC ID: SU7DOL1000-433RC4

### **Internal Photos**

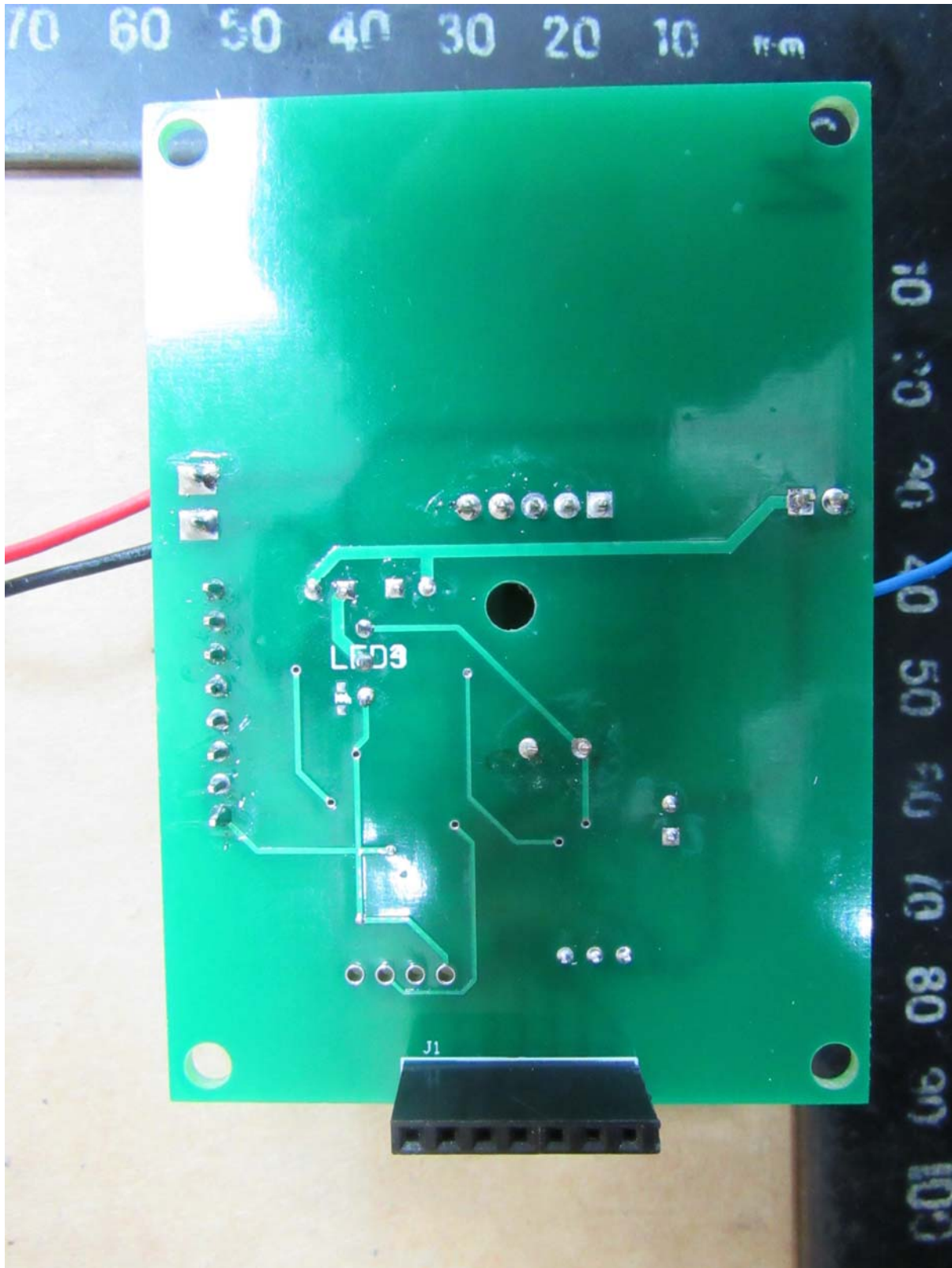


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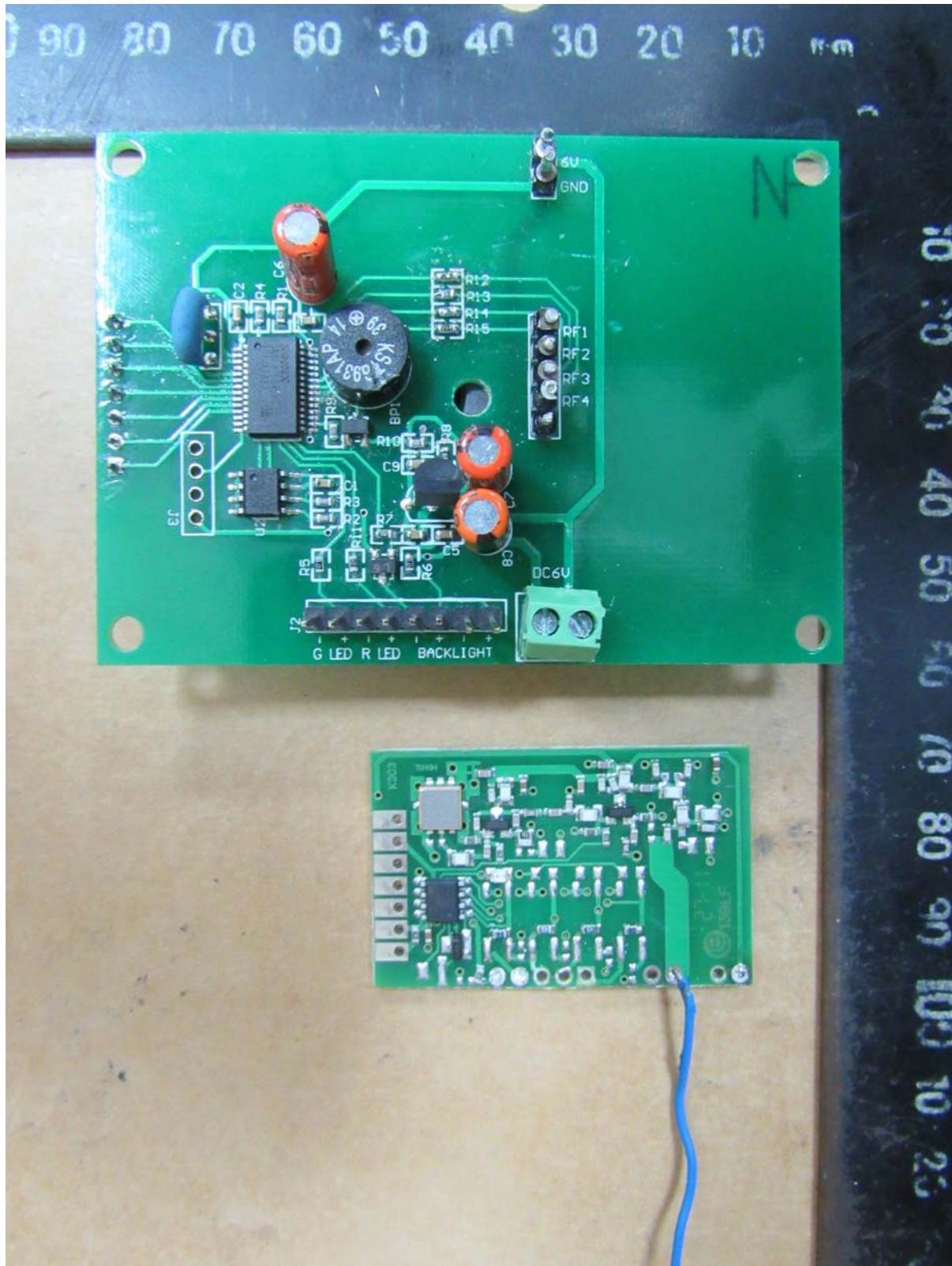




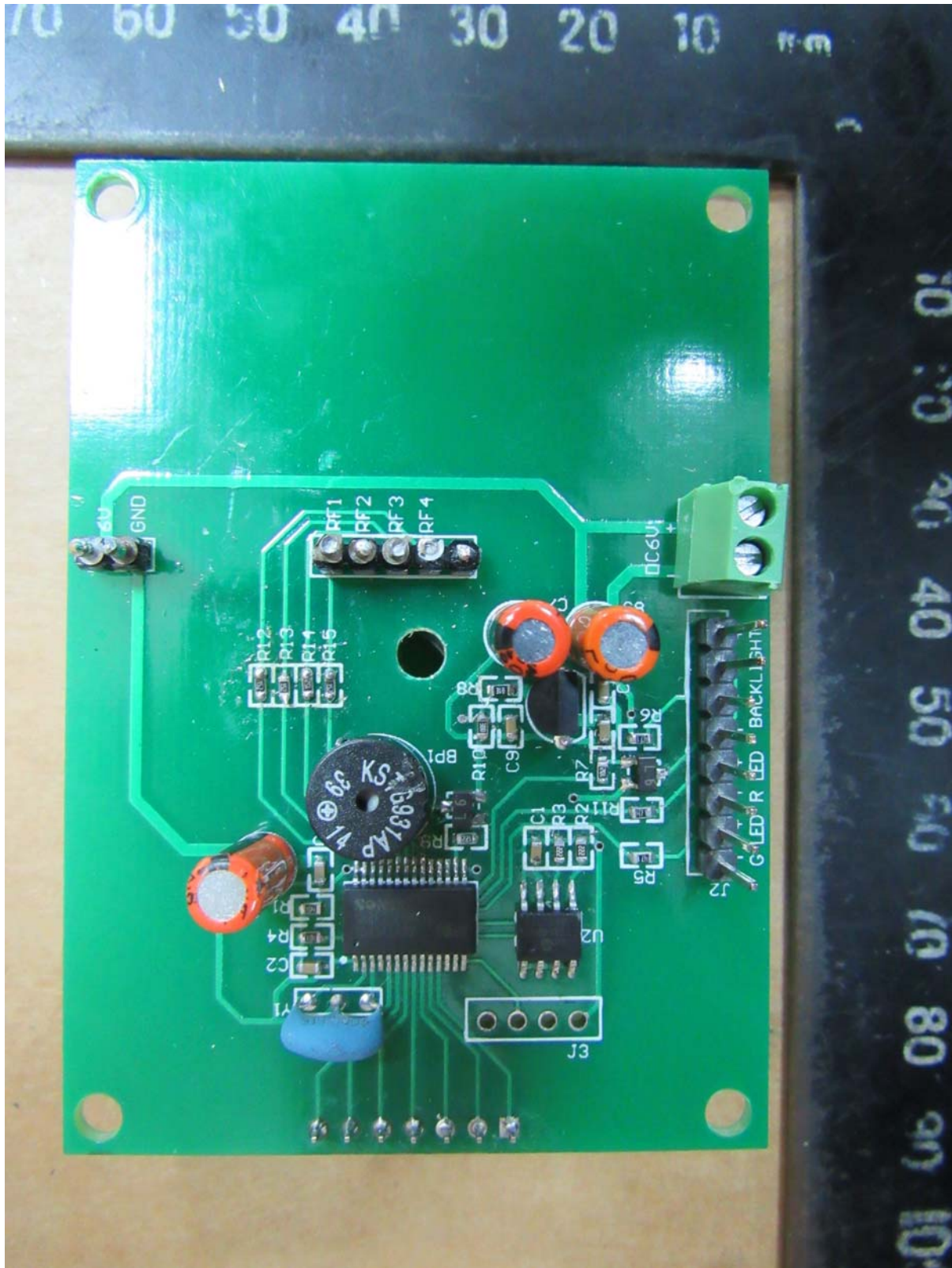
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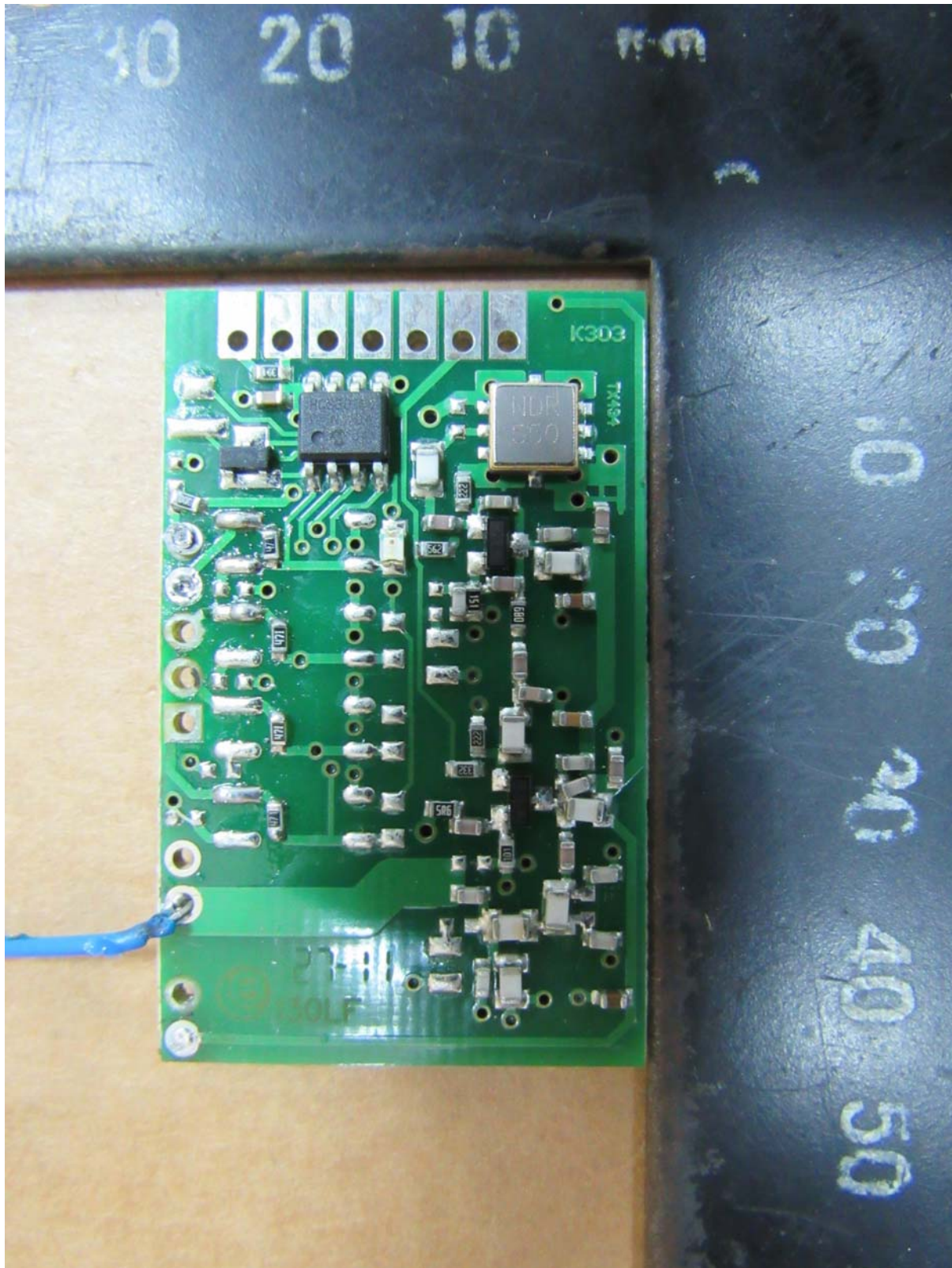
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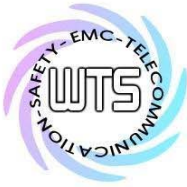


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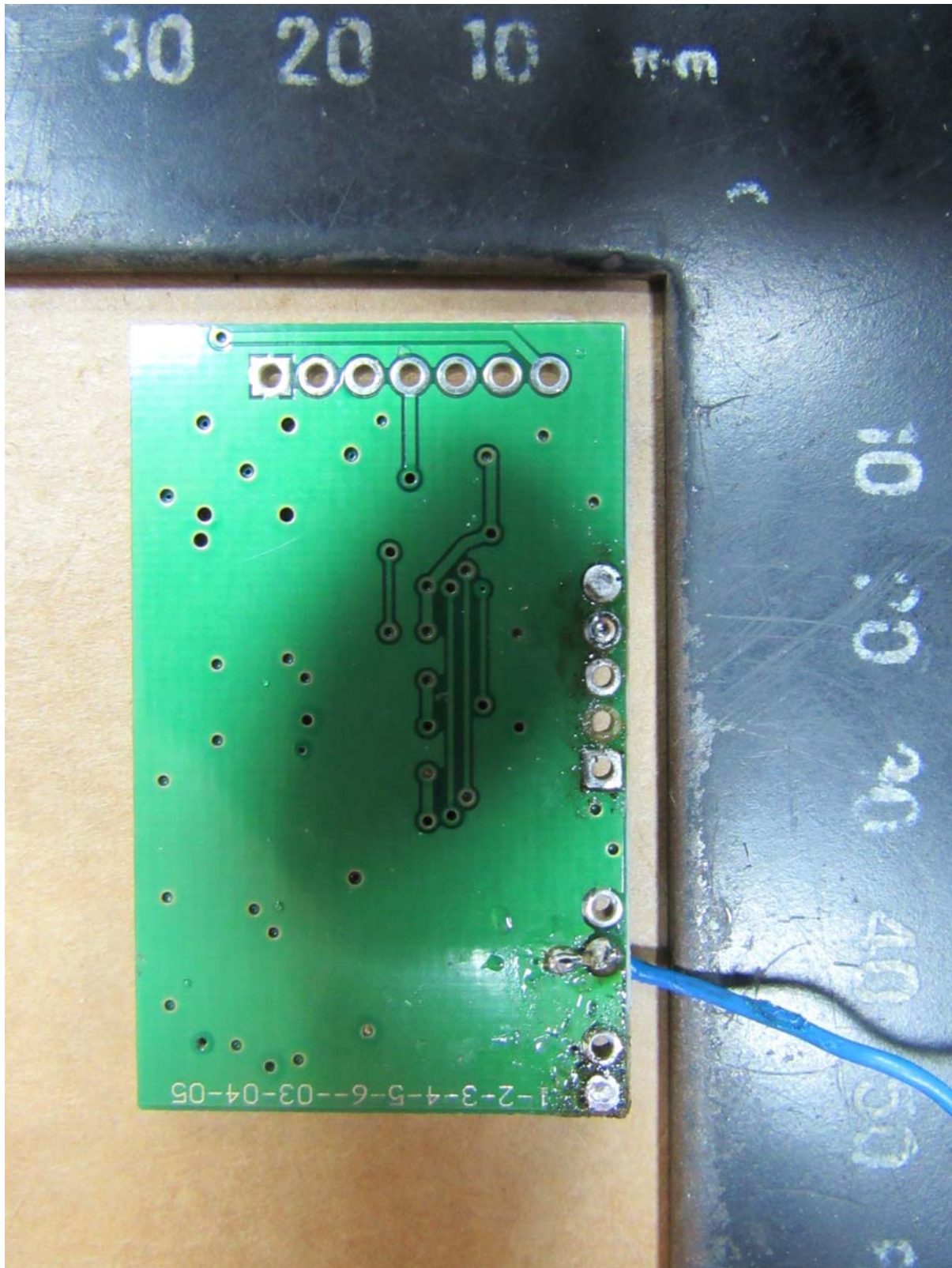


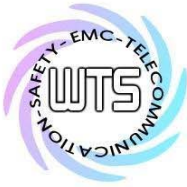
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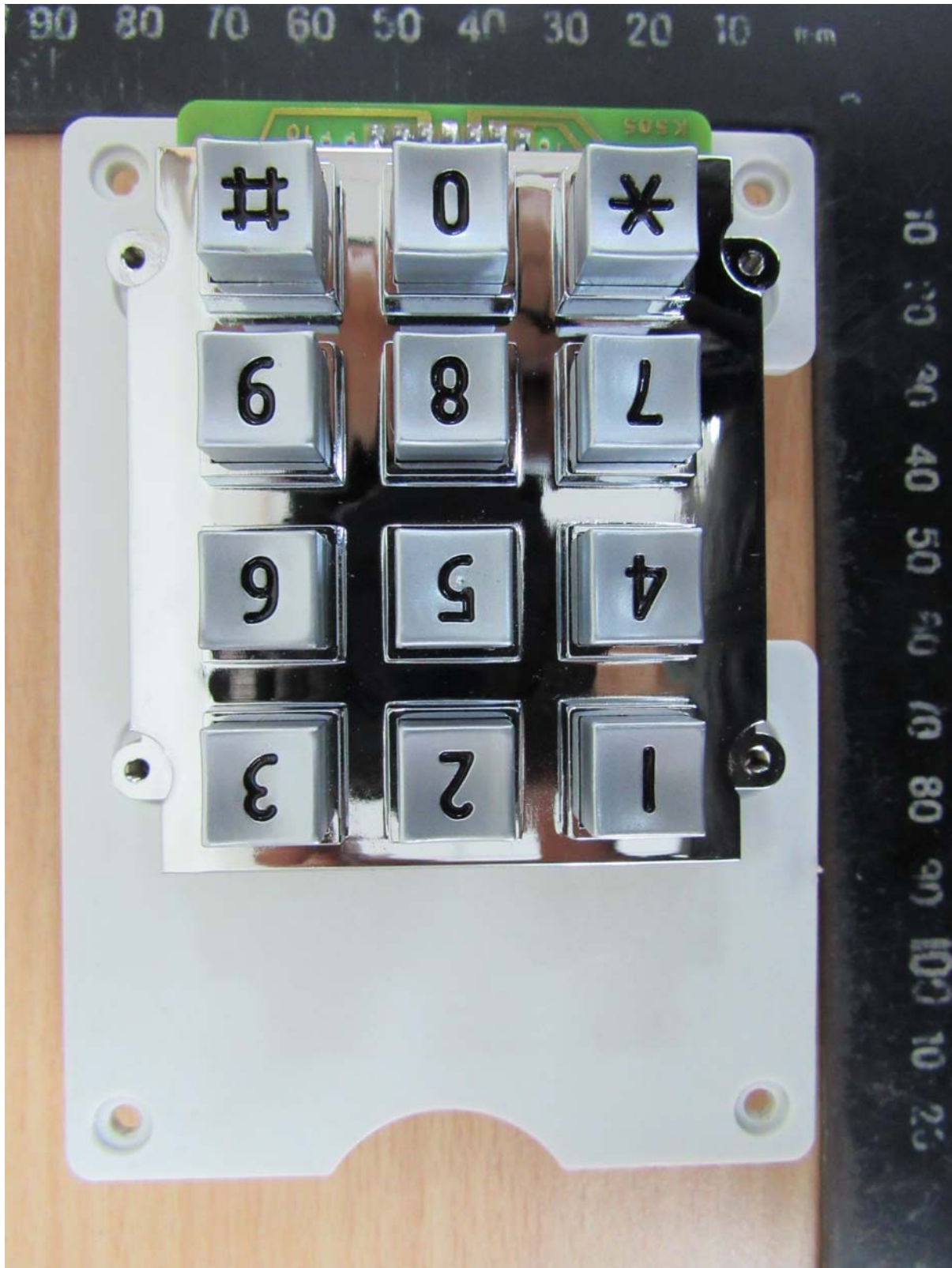


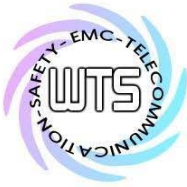
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## Set Up Photos of Radiated emission

