

FCC Test Report

FCC Rule(s): FCC Part 15.231

Applicant: Comelit Group Spa

Product Name: Smart video doorbell

Model: CM96201FRW-CMS

FCC ID: 2ANSRCM96201FRW-CMS

Report No.: ZKS170900084E-2

Tested Date: 2017-07-01 to 2017-07-06

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen ZRLK Testing Technology Co., Ltd.

CONTENTS

| | |
|--|-----------|
| 1. General Information | 3 |
| 1.1 Product Information | 3 |
| 1.2 Compliance Standards | 4 |
| 1.3 Test Facilities | 4 |
| 1.4 Test Setup Information | 5 |
| 1.5 Measurement Uncertainty | 5 |
| 1.6 List of Test and Measurement Instruments | 5 |
| 2. Summary of Test Results | 6 |
| 3. Antenna Requirement | 7 |
| 3.1 Standard Applicable | 7 |
| 3.2 Test Result | 7 |
| 4. Radiated Emissions | 8 |
| 4.1 Standard and Limit | 8 |
| 4.2 Test Procedure | 9 |
| 4.3 Test Data and Results | 10 |
| 5. 20dB Bandwidth | 15 |
| 5.1 Standard and Limit | 15 |
| 5.2 Test Procedure | 15 |
| 5.3 Test Data and Results | 15 |
| 6. Transmission Time | 16 |
| 6.1 Standard and Limit | 16 |
| 6.2 Test Procedure | 16 |
| 6.3 Test Data and Results | 16 |
| 7. Duty Cycle | 17 |
| 7.1 Standard Applicable | 17 |
| 7.2 Test Procedure | 17 |
| 7.3 Test Data and Results | 17 |
| 8. Conducted Emissions | 20 |
| 8.1 Standard and Limit | 20 |
| 8.2 Test Procedure | 20 |
| 8.3 Test Data and Results | 20 |
| Annex A. EUT External Photos | 23 |
| Annex B. EUT Internal Photos | 27 |
| Annex C. Test Photos | 30 |
| Annex D. Label and Information | 32 |

1. General Information

1.1 Product Information

| Applicant and Manufacturer | |
|----------------------------|---|
| Applicant: | Comelit Group Spa |
| Address of Applicant: | via Don Arrigoni 5 san Lorenzo di Rovetta Bergamo Ttaly |
| Manufacturer: | Zhong Shan Jesmay Electronics Co., Ltd |
| Address of Manufacturer: | First Industry District, Tan Zhou Canton, Zhong Shan, China |

| General Description of EUT | |
|---|----------------------|
| Product Name: | Smart video doorbell |
| Model No.: | CM96201FRW-CMS |
| Trade Name: | Comelit |
| Adding Model(s): | -- |
| Class of Equipment: | DSC |
| Rated Voltage: | DC 12V |
| TX Frequency: | 433.92MHz |
| Modulation: | ASK |
| Type of Antenna: | Integral Antenna |
| Antenna Gain: | 0dBi |
| Note 1: The test data is gathered from a production sample, provided by the manufacturer. | |

1.2 Compliance Standards

| Compliance Standards or Rules | |
|---|--|
| FCC Part 15 Subpart C | FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators |
| FCC Part 15.231 | Periodic operation in the band 40.66 - 40.70 MHz and above 70 MHz. |
| The objective of the manufacturer or applicant is to demonstrate compliance with the above standards. | |
| According to standards for test methodology | |
| ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices Accredited Standards Committee C63®—Electromagnetic Compatibility |
| All measurements contained in this report were conducted with all above standards | |
| Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained. | |

1.3 Test Facilities

| Testing Lab: Global United Technology Services Co., Ltd. |
|--|
| The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L5775 . |
| The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 600491 . |
| The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 9079A-2 . |
| All measurement facilities used to collect the measurement data are located at No.301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 |

1.4 Test Setup Information

| List of Test Modes | | | |
|---|--------------|----------|---------------|
| Test Mode | Description | Remark | |
| TM1 | 433.92MHz Tx | -- | |
| TM2 | Operating | -- | |
| List and Details of Auxiliary Equipment | | | |
| Description | Manufacturer | Model | Serial Number |
| AC-AC transformer | Jesmay | 1610 | -- |
| AC-DC transformer | Jesmay | Art.3522 | -- |
| Note 1: The equipment under test (EUT) was configured to measure its highest possible emission and immunity level. The test modes were adapted according to the operation manual for use. | | | |
| Note 2: The 433.92MHz been tested under continuous transmission mode | | | |

1.5 Measurement Uncertainty

| Parameter | Conditions | Uncertainty |
|---------------------|--------------|---------------|
| Conducted Emissions | 9kHz ~30MHz | ± 2.79 dB |
| Radiated Emissions | 30MHz ~ 1GHz | ± 3.45 dB |
| Radiated Emissions | 1Hz ~ 6GHz | ± 3.67 dB |

1.6 List of Test and Measurement Instruments

| Description | Manufacturer | Model | Cal. Date | Due. Date |
|----------------------------|--------------|------------|---------------|----------------|
| EMI Test Receiver | R&S | ESCI 7 | April.25 2017 | April. 24 2018 |
| Coaxial Switch | ANRITSU CORP | MP59B | April.25 2017 | April. 24 2018 |
| Artificial Mains Network | SCHWARZBECK | NSLK8127 | April.25 2017 | April. 24 2018 |
| ESU EMI Test Receiver | R&S | ESU26 | April.25 2017 | April. 24 2018 |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | April.25 2017 | April. 24 2018 |
| Double-ridged horn antenna | SCHWARZBECK | 9120D | April.25 2017 | April. 24 2018 |
| Loop Antenna | SCHWARZBECK | FMZB 1519 | April.25 2017 | April. 24 2018 |
| RF Amplifier | HP | 8347A | April.25 2017 | April. 24 2018 |
| Broadband Preamplifier | SCHWARZBECK | BBV9718 | April.25 2017 | April. 24 2018 |
| EMI Test Software | AUDIX | E3 | N/A | N/A |
| Coaxial Cable | GTS | 9kHz-1GHz | April.25 2017 | April. 24 2018 |
| Coaxial Cable | GTS | 1GHz-18GHz | April.25 2017 | April. 24 2018 |
| Spectrum Analyzer | Agilent | E4407B | April.25 2017 | April. 24 2018 |

2. Summary of Test Results

| FCC Rules | Description of Test Items | Result |
|--------------------|----------------------------------|---------------|
| FCC Part 15.203 | Antenna Requirement | Passed |
| FCC Part 15.205 | Restricted Band of Operation | Passed |
| FCC Part 15.209 | Radiated Spurious Emissions | Passed |
| FCC Part 15.231(a) | Deactivation Testing | Passed |
| FCC Part 15.231(b) | Radiated Emissions | Passed |
| FCC Part 15.231(c) | 20dB Bandwidth Testing | Passed |
| FCC Part 15.207(a) | Conducted Emissions | Passed |

Passed: The EUT complies with the essential requirements in the standard
Failed: The EUT does not comply with the essential requirements in the standard
N/A: Not applicable

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, 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.

3.2 Test Result

This product has a permanent antenna, fulfill the requirement of this section.

4. Radiated Emissions

4.1 Standard and Limit

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

| Frequency of Emission (MHz) | Field Strength of Fundamental (uV/m) | Field Strength of Spurious Emissions (uV/m) |
|-----------------------------|--------------------------------------|---|
| 40.66-40.70 | 2250 | 225 |
| 70-130 | 1250 | 125 |
| 130-174 | 1250 to 3750** | 125 to 375** |
| 174-260 | 3750 | 375 |
| 260-470 | 3750 to 12500** | 375 to 1250** |
| Above 470 | 12500 | 1250 |

** linear interpolations

Limits at a measurement distance of 3 m

The limits on the field strength of the spurious emissions in the above 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.

The general limits in FCC Part 15.209

| Frequency of Emission (MHz) | Field Strength (uV/m) | | Field Strength (dBuV/m) | |
|-----------------------------|-----------------------|--|-------------------------|----|
| | QP | | QP | AV |
| 30-88 | 100 | | 40 | -- |
| 88-216 | 150 | | 43.5 | -- |
| 216-960 | 200 | | 46 | -- |
| Above 960 | 500 | | 54 | 74 |

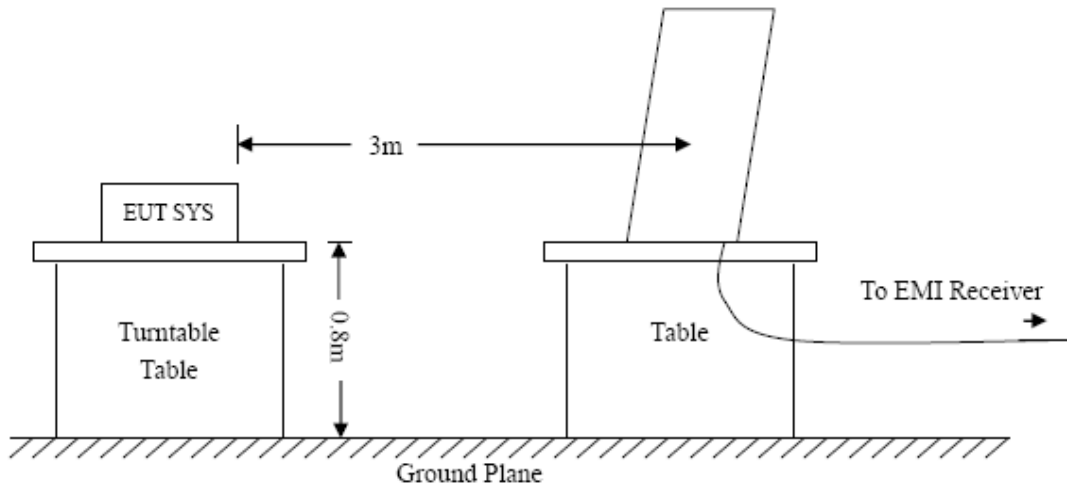
Limits at a measurement distance of 3 m

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious radiated emissions measurements starting below or at the lowest crystal frequency.

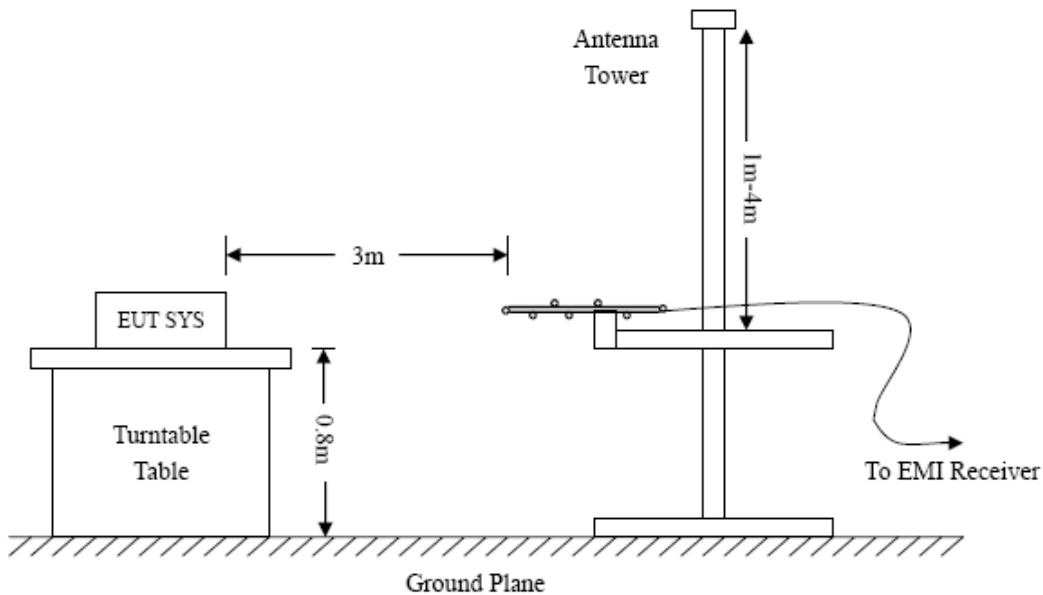
Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

4.2 Test Procedure

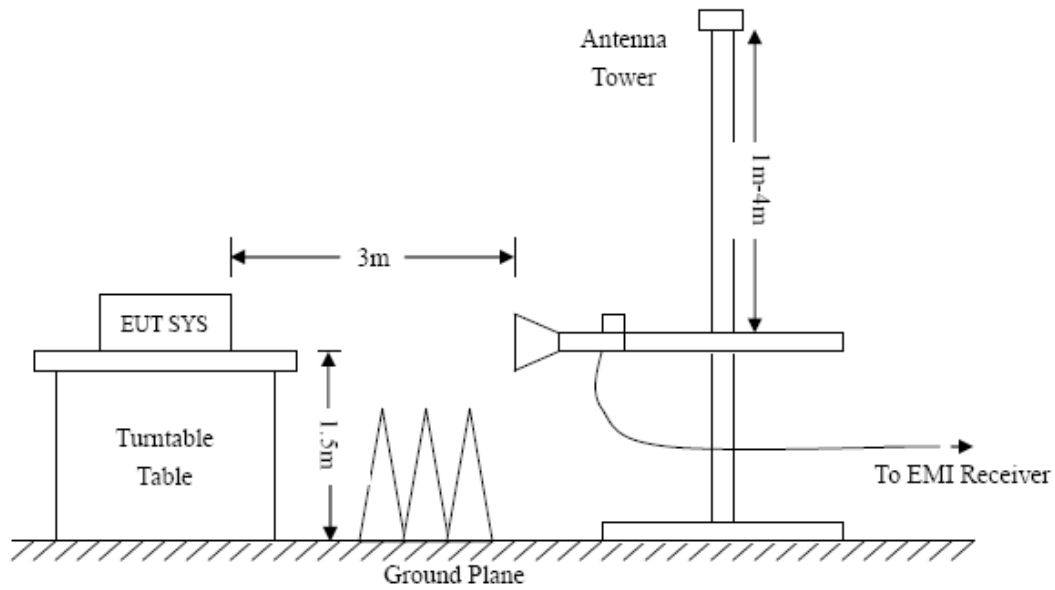
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.231(b) and FCC Part 15.209 Limit.



Test Setup Block Diagram below 30MHz



Test Setup Block Diagram for 30MHz-1GHz



Test Setup Block Diagram above 1GHz

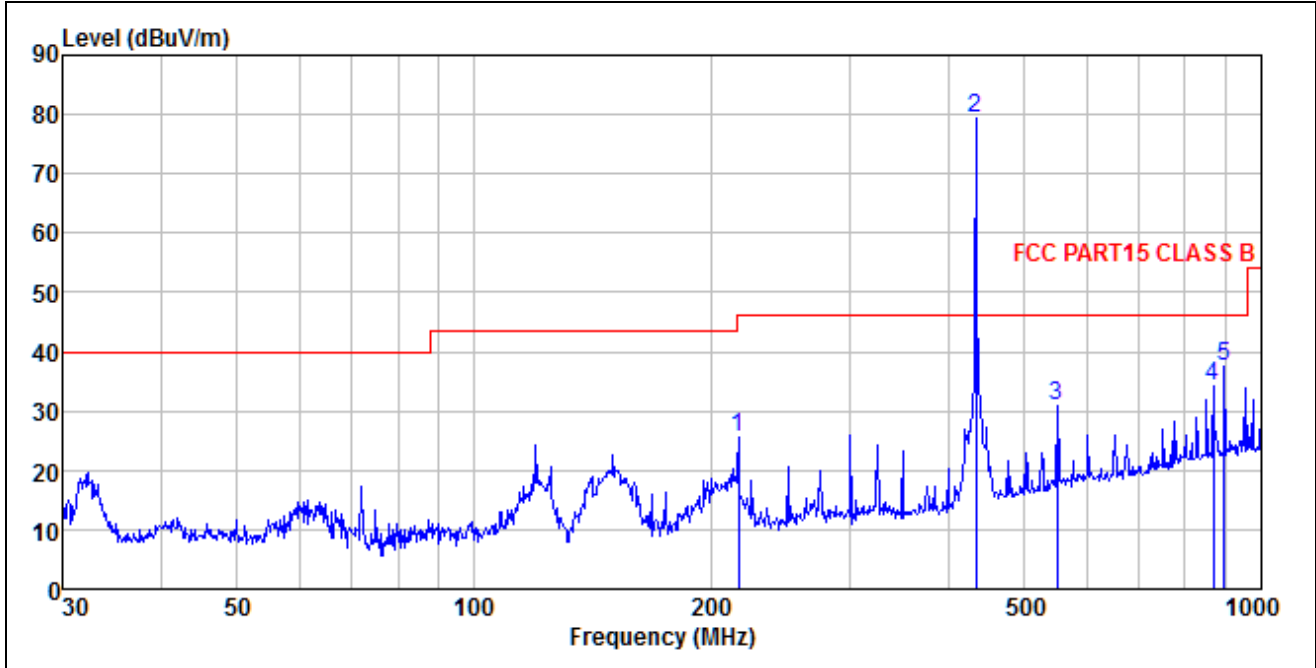
For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

4.3 Test Data and Results

According to the data below, the FCC Part 15.205, 15.209 and 15.231 standards, and had the worst margin of:

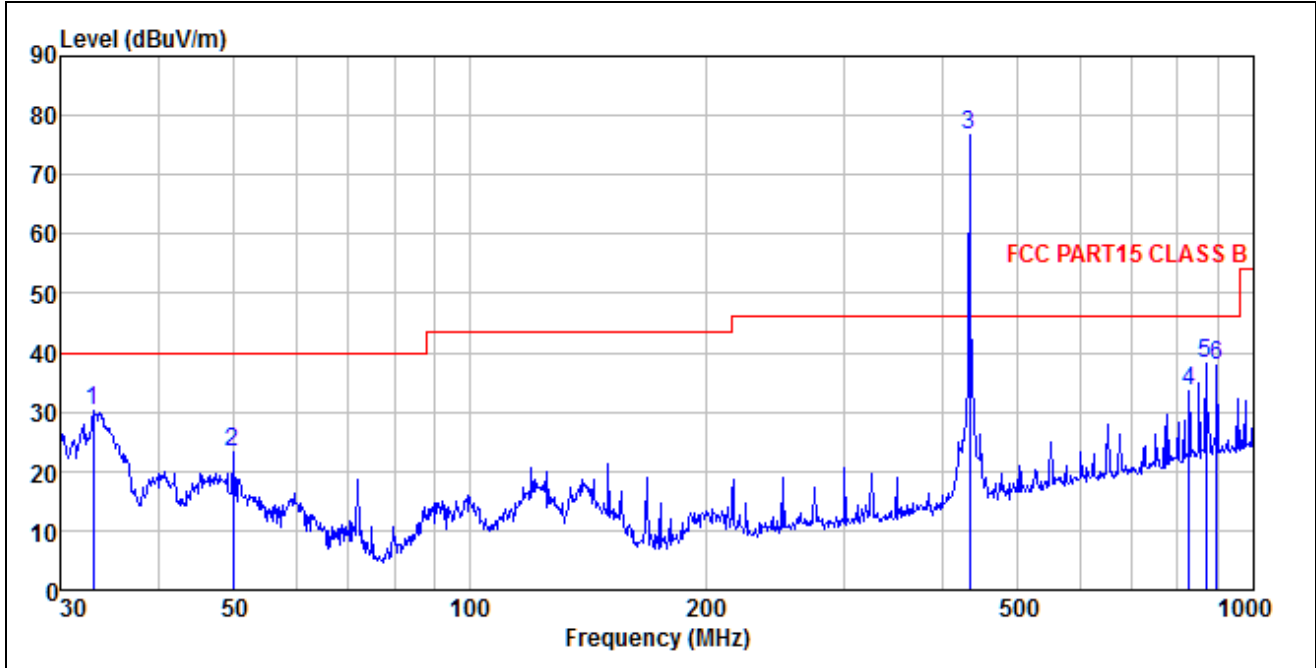
| Test Plots and Data of Radiated Emissions (30MHz to 1GHz) | |
|---|----------------|
| Tested Model: | CM96201FRW-CMS |
| Tested Mode: | TM1 |
| Test Power Specification: | AC 120 V/60Hz |
| Test Antenna Polarization: | Horizontal |



| No. | Frequency (MHz) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (°) | Height (cm) | ANT |
|-----|-----------------|-------------|------------------|----------------|-------------|----------|-----------|-------------|------------|
| 1 | 216.783 | 16.64 | 25.54 | 46 | -20.46 | Peak | 234.1 | 100 | Horizontal |
| 2 | 433.920 | 10.24 | 79.23 | 100.8 | -21.57 | Peak | 160.2 | 100 | Horizontal |
| 3 | 550.948 | 7.37 | 30.95 | 46 | -15.05 | Peak | 192.3 | 100 | Horizontal |
| 4 | 867.840 | 2.45 | 34.14 | 46 | -11.86 | Peak | 80.9 | 100 | Horizontal |
| 5 | 896.997 | 2.10 | 37.58 | 46 | -8.42 | Peak | 66.3 | 100 | Horizontal |

| No. | Frequency (MHz) | PK Results (dBuV/m) | Factor _{DC} (dB) | AV Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|---------------------|---------------------------|---------------------|----------------|-------------|
| 1 | 433.92 | 79.23 | -8.51 | 70.72 | 80.8 | -10.08 |

| Test Plots and Data of Radiated Emissions (30MHz to 1GHz) | |
|---|----------------|
| Tested Model: | CM96201FRW-CMS |
| Tested Mode: | TM1 |
| Test Power Specification: | AC 120 V/60Hz |
| Test Antenna Polarization: | Vertical |



| No. | Frequency (MHz) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (°) | Height (cm) | ANT |
|-----|-----------------|-------------|------------------|----------------|-------------|----------|-----------|-------------|----------|
| 1 | 33.095 | 18.24 | 30.24 | 40 | -9.76 | Peak | 100.8 | 100 | Vertical |
| 2 | 49.881 | 17.03 | 23.10 | 40 | -16.90 | Peak | 88.9 | 100 | Vertical |
| 3 | 433.920 | 10.24 | 76.57 | 100.8 | -24.23 | Peak | 50.3 | 100 | Vertical |
| 4 | 827.493 | 3.04 | 33.57 | 46 | -12.43 | Peak | 140.2 | 100 | Vertical |
| 5 | 867.84 | 2.47 | 38.31 | 46 | -7.69 | Peak | 45.2 | 100 | Vertical |
| 6 | 896.997 | 2.10 | 37.92 | 46 | -8.08 | Peak | 92.9 | 100 | Vertical |

| No. | Frequency (MHz) | PK Results (dBuV/m) | Factor _{DC} (dB) | AV Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|-----------------|---------------------|---------------------------|---------------------|----------------|-------------|
| 1 | 433.92 | 76.57 | -8.51 | 68.06 | 80.8 | -12.74 |

| Test Plots and Data of Radiated Emissions (1GHz to 5GHz) | |
|--|----------------|
| Tested Model: | CM96201FRW-CMS |
| Tested Mode: | TM1 |
| Test Power Specification: | AC 120 V/60Hz |
| Test Antenna Polarization: | Horizontal |

| No. | Frequency (MHz) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (°) | Height (cm) | ANT |
|-----|--------------------|----------------|---------------------|-------------------|----------------|----------|--------------|----------------|------------|
| 1 | 1301.76 | 12.32 | 33.21 | 74.0 | -40.79 | Peak | 161.4 | 100 | Horizontal |
| 2 | 1735.68 | 12.05 | 34.46 | 80.8 | -46.34 | Peak | 169.2 | 100 | Horizontal |
| 3 | 2169.60 | 11.65 | 37.22 | 80.8 | -43.78 | Peak | 167.8 | 100 | Horizontal |
| 4 | 2603.52 | 11.24 | 39.81 | 80.8 | -40.99 | Peak | 165.7 | 100 | Horizontal |

| No. | Frequency (MHz) | PK Results (dBuV/m) | Factor _{DC} (dB) | AV Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|--------------------|------------------------|------------------------------|------------------------|-------------------|----------------|
| 1 | 1301.76 | 33.21 | -8.51 | 24.70 | 54.0 | -29.30 |
| 2 | 1735.68 | 34.46 | -8.51 | 25.95 | 60.8 | -34.85 |
| 3 | 2169.60 | 37.22 | -8.51 | 28.71 | 60.8 | -32.09 |
| 4 | 2603.52 | 39.81 | -8.51 | 31.30 | 60.8 | -29.50 |

| Test Plots and Data of Radiated Emissions (1GHz to 5GHz) | |
|--|----------------|
| Tested Model: | CM96201FRW-CMS |
| Tested Mode: | TM1 |
| Test Power Specification: | AC 120 V/60Hz |
| Test Antenna Polarization: | Vertical |

| No. | Frequency (MHz) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Table (°) | Height (cm) | ANT |
|-----|--------------------|----------------|---------------------|-------------------|----------------|----------|--------------|----------------|----------|
| 1 | 1301.76 | 12.32 | 35.66 | 74.0 | -38.34 | Peak | 45.2 | 100 | Vertical |
| 2 | 1735.68 | 12.05 | 36.21 | 80.8 | -44.59 | Peak | 47.3 | 100 | Vertical |
| 3 | 2169.60 | 11.65 | 37.57 | 80.8 | -43.23 | Peak | 48.1 | 100 | Vertical |
| 4 | 2603.52 | 11.24 | 40.66 | 80.8 | -40.14 | Peak | 50.8 | 100 | Vertical |

| No. | Frequency (MHz) | PK Results (dBuV/m) | Factor _{DC} (dB) | AV Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|-----|--------------------|------------------------|------------------------------|------------------------|-------------------|----------------|
| 1 | 1301.76 | 35.66 | -8.51 | 27.15 | 54.0 | -26.85 |
| 2 | 1735.68 | 36.21 | -8.51 | 27.70 | 60.8 | -33.10 |
| 3 | 2169.60 | 37.57 | -8.51 | 29.06 | 60.8 | -31.74 |
| 4 | 2603.52 | 40.66 | -8.51 | 32.15 | 60.8 | -28.65 |

Note 1: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which 3rd and 10th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 2: Average Result = Peak Result + Factor_{DC} (Duty Cycle Correction Factor)

Note 3: Duty Cycle Correction Factor = $20\log(\text{Duty Cycle}) = 20\log(0.3756) = -8.51$

5. 20dB Bandwidth

5.1 Standard and Limit

According to FCC Part 15.231(c), 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. Bandwidth is determined at the points 20 dB down from the modulated carrier.

5.2 Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set center frequency = transmitting channel;

Span = 200 kHz; RBW \geq 1% 20dB Bandwidth, VBW \geq RBW

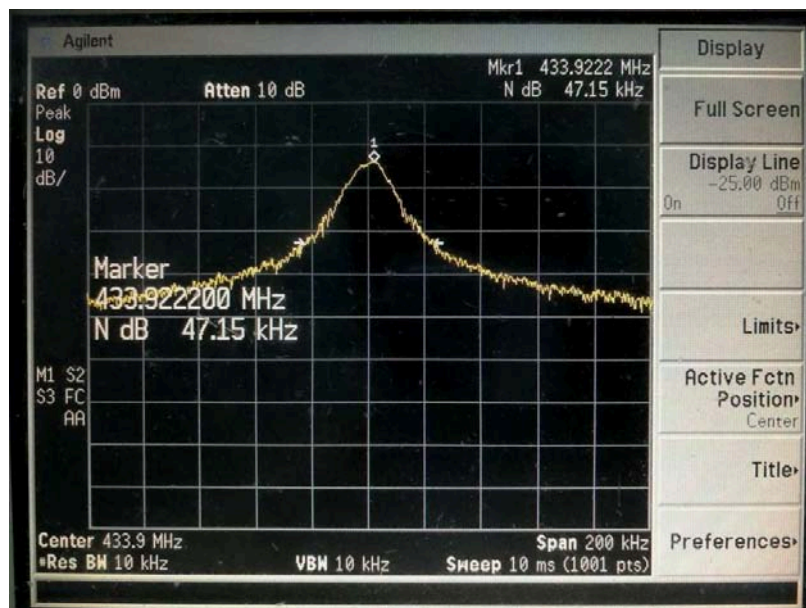
Sweep = auto; Detector function = peak; Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down bandwidth of the emission.

5.3 Test Data and Results

| Test Frequency MHz | 20dB Bandwidth kHz | Limit kHz | Result |
|-----------------------|-----------------------|--------------|--------|
| 433.92 | 47.15 | 1084 | Passed |

Limit = Fundamental Frequency X 0.25% = 433.92 MHz X 0.25% = 1084 kHz



6. Transmission Time

6.1 Standard and Limit

According to FCC Part 15.231 (a), the transmitter shall be complied the following requirements:

- 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.

6.2 Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set center frequency = transmitting channel;

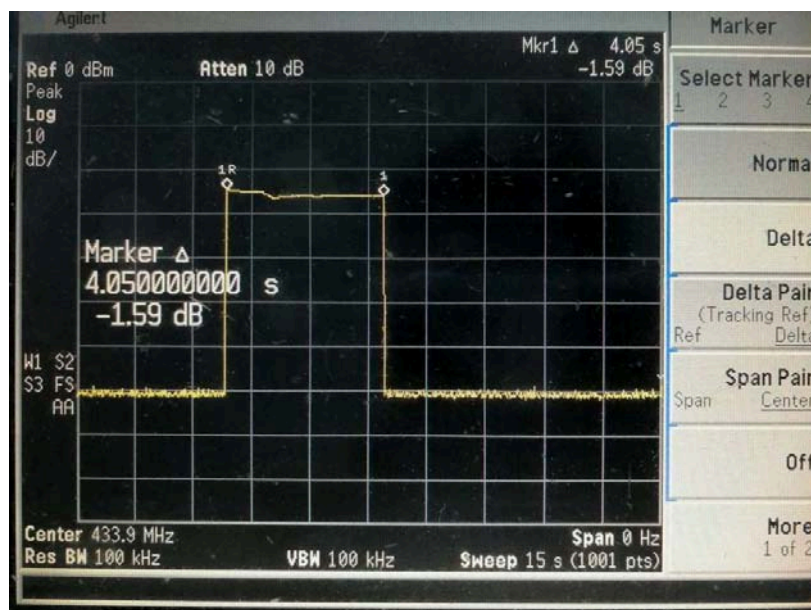
Span = 0Hz; RBW=100 kHz; VBW \geq RBW

Sweep = 15s and Single Sweep; Detector function = peak; Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the transmission time.

6.3 Test Data and Results

| Transmission Type | Test Frequency MHz | Transmission Time s | Limit s | Result |
|-------------------|-----------------------|------------------------|------------|--------|
| Manually | 433.92 | 4.05 | 5 | Passed |



7. Duty Cycle

7.1 Standard Applicable

According to FCC Part 15.231(b)(2) and 15.35(c), For pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

7.2 Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set center frequency = transmitting channel;

Span = 0Hz; RBW=100 kHz; VBW \geq RBW

Sweep = auto and single sweep; Detector function = peak; Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the transmission time.

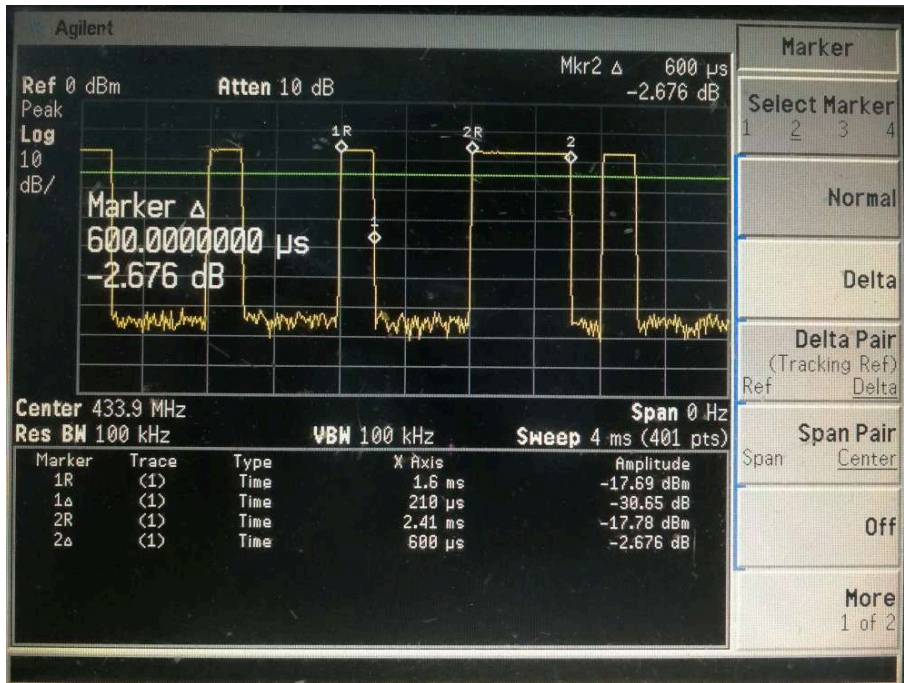
7.3 Test Data and Results

| Type of Pulse | Width of Pulse ms | Quantity of Pulse | Transmission Time ms | Total Time (Ton) ms |
|---------------|----------------------|-------------------|-------------------------|------------------------|
| Pulse 1 | 0.21 | 19 | 3.99 | 8 |
| Pulse 2 | 0.60 | 5 | 3 | |
| Pulse 3 | 1.01 | 1 | 1.01 | |

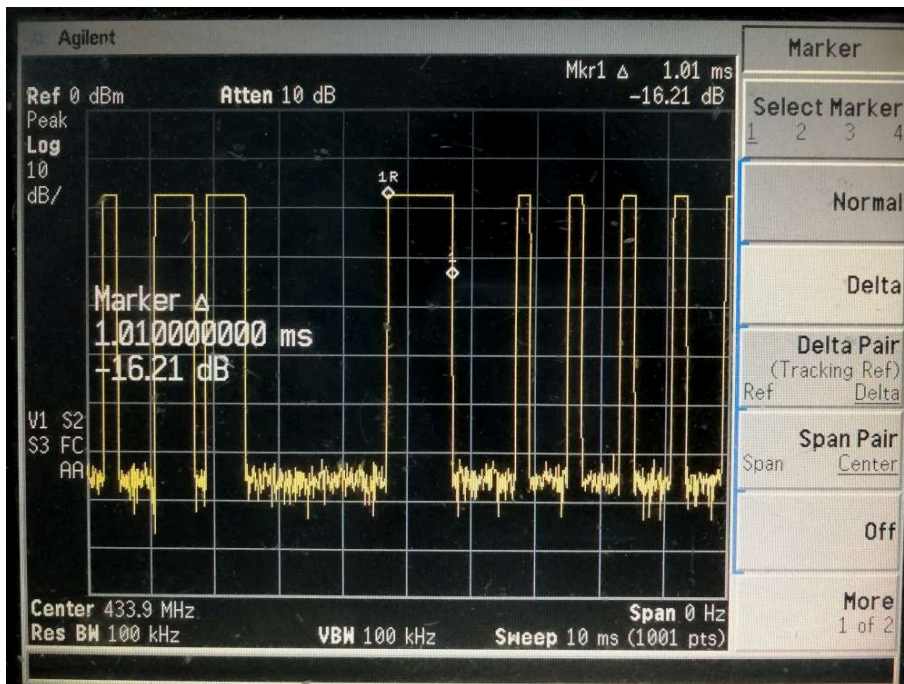
| Test Period (Tp) ms | Total Time (Ton) ms | Duty Cycle | Duty Cycle Factor dB |
|--|------------------------|------------|-------------------------|
| 21.3 | 8 | 0.3756 | -8.51 |
| Duty cycle factor = $20 * \text{Log}(\text{Duty cycle})$ | | | |

Please refer to the attached test plots

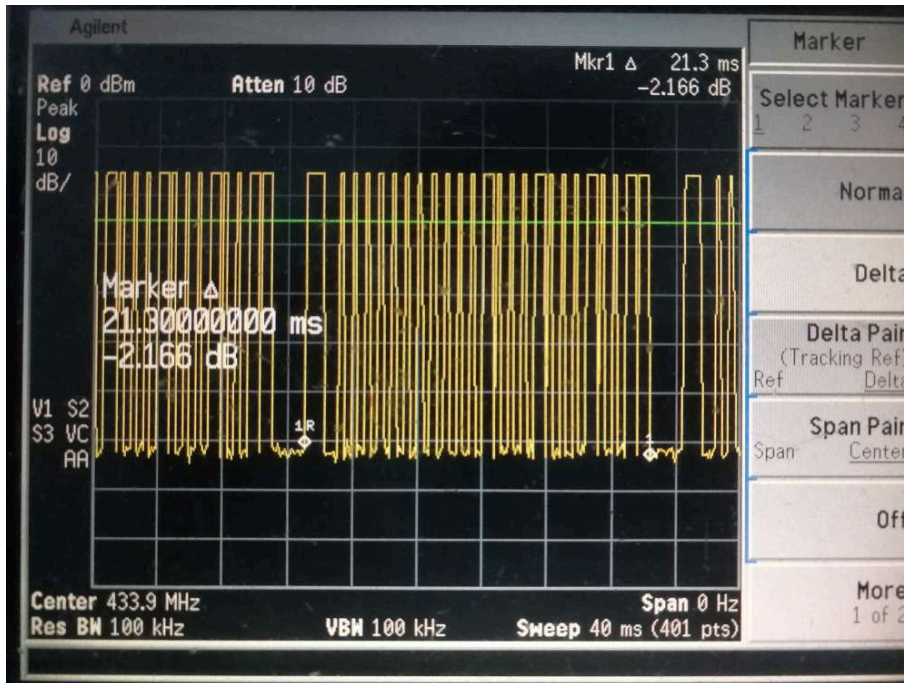
Width of Pulse 1 and Pulse 2



Pulse 3



Quantity of Pulse



8. Conducted Emissions

8.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted limit, the limit for a class B device as below:

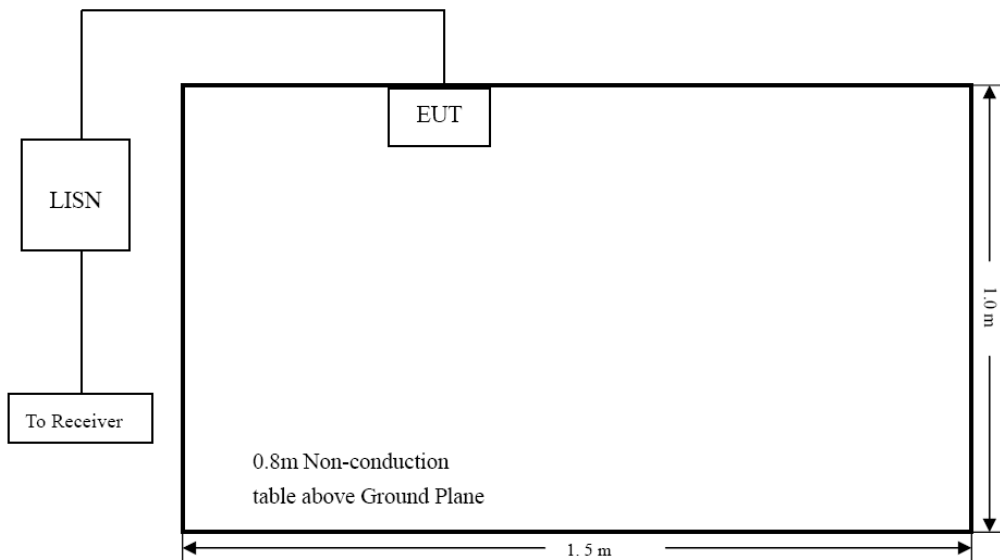
| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz
 Note 2: The lower limit applies at the band edges

AC Power Line

8.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2013 measurement procedure.

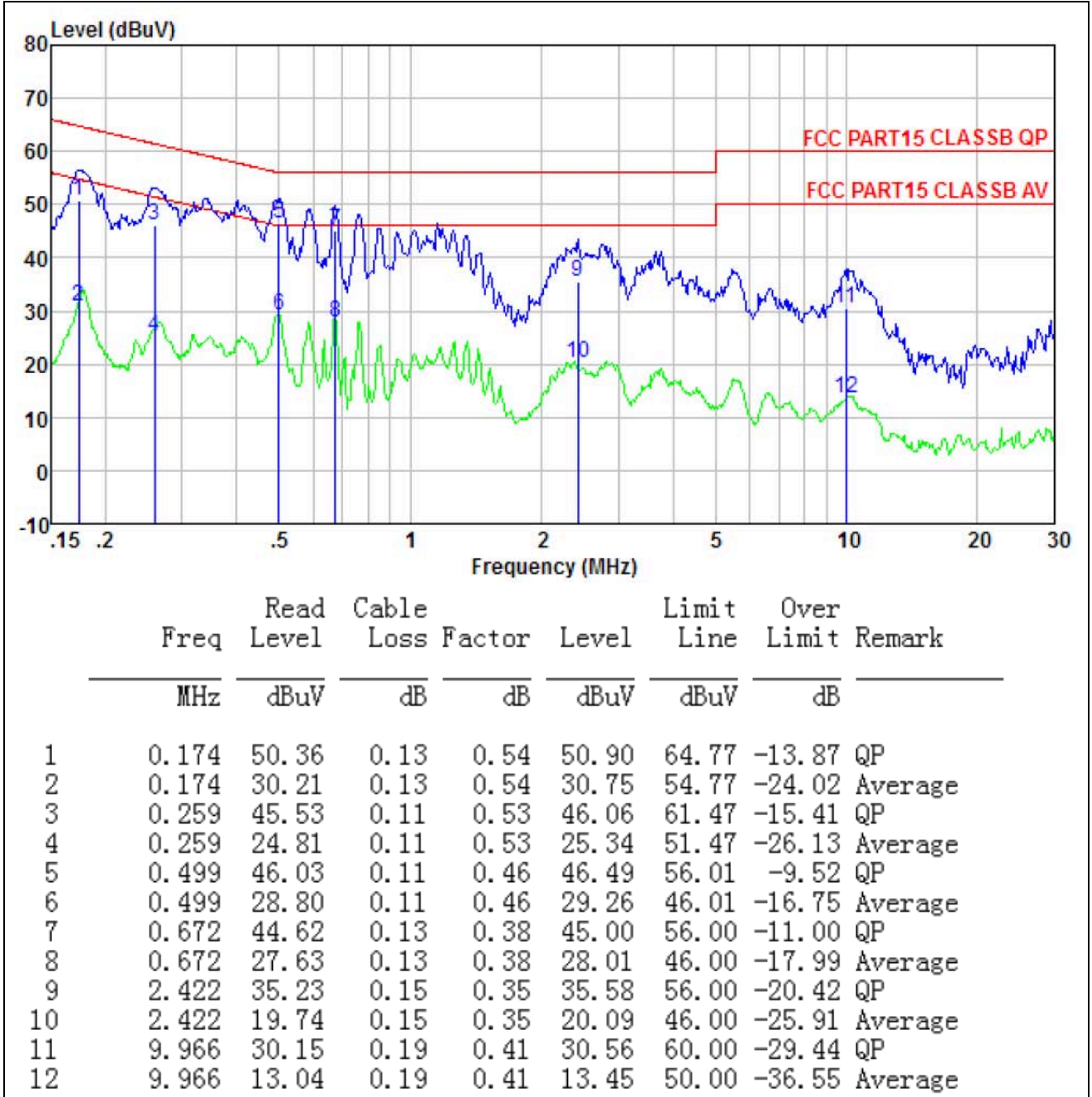


Test Setup Block Diagram

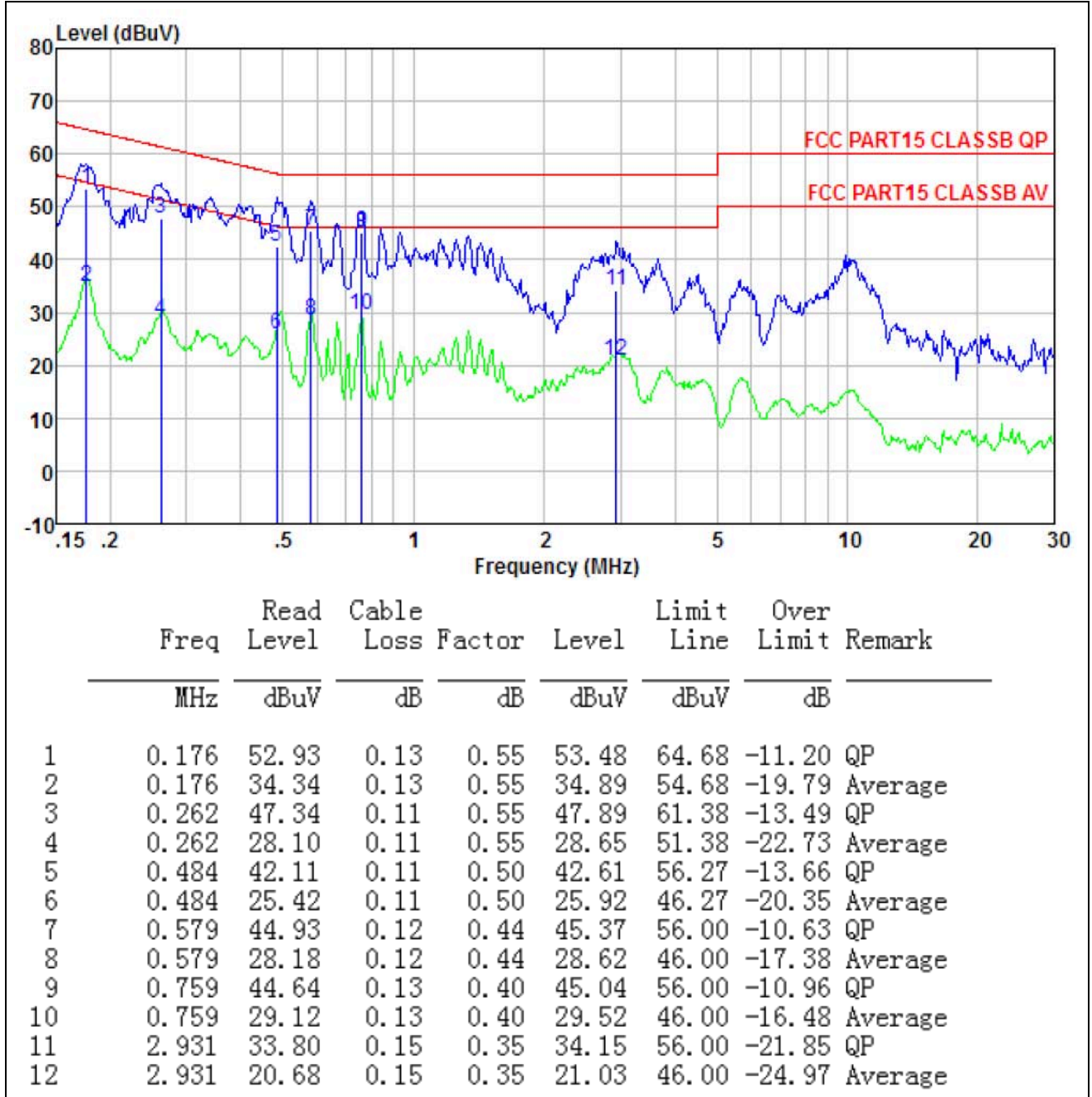
8.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a Class B device, and with the worst case as below:

| Test Plots and Data of Conducted Emissions | |
|--|----------------|
| Tested Model: | CM96201FRW-CMS |
| Tested Mode: | TM2 |
| Test Power Specification: | AC 120V/60Hz |
| Test Power Line: | Neutral |



| Test Plots and Data of Conducted Emissions | |
|--|----------------|
| Tested Model: | CM96201FRW-CMS |
| Tested Mode: | TM2 |
| Test Power Specification: | AC 120V/60Hz |
| Test Power Line: | Line |



Annex A. EUT External Photos

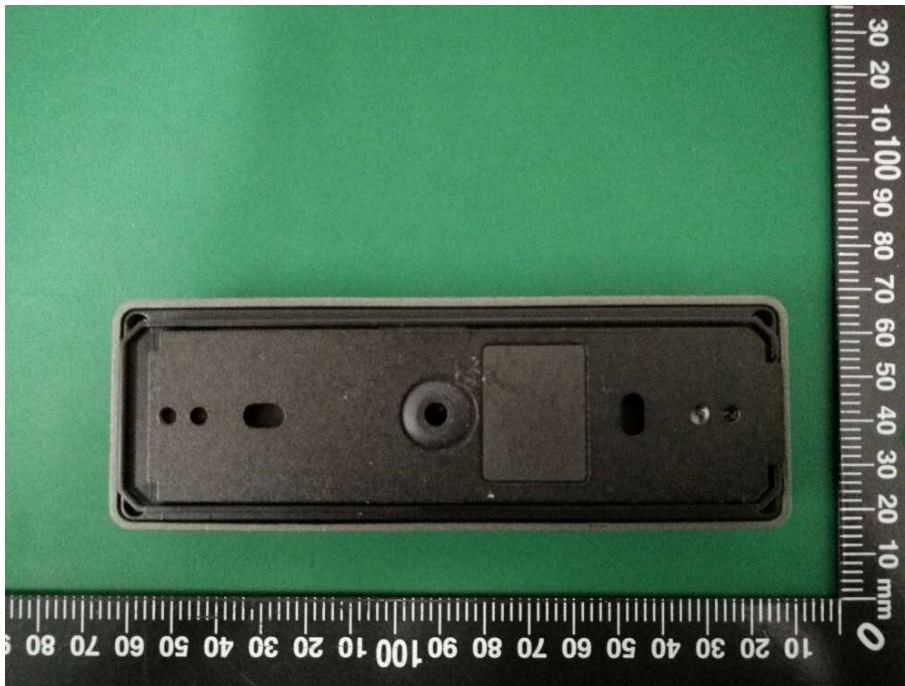
EUT View 1



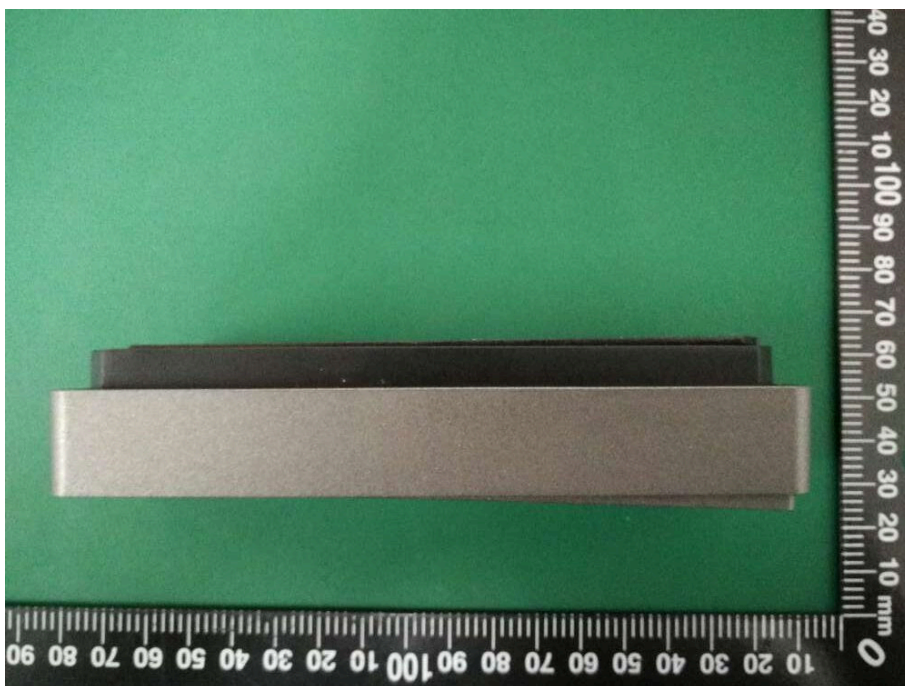
EUT View 2



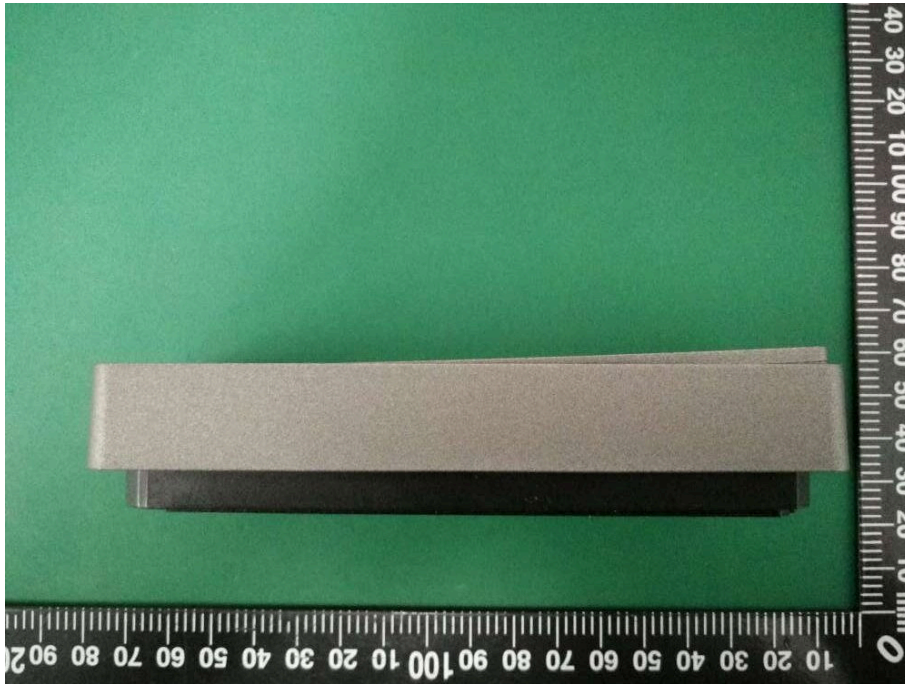
EUT View 3



EUT View 4



EUT View 5



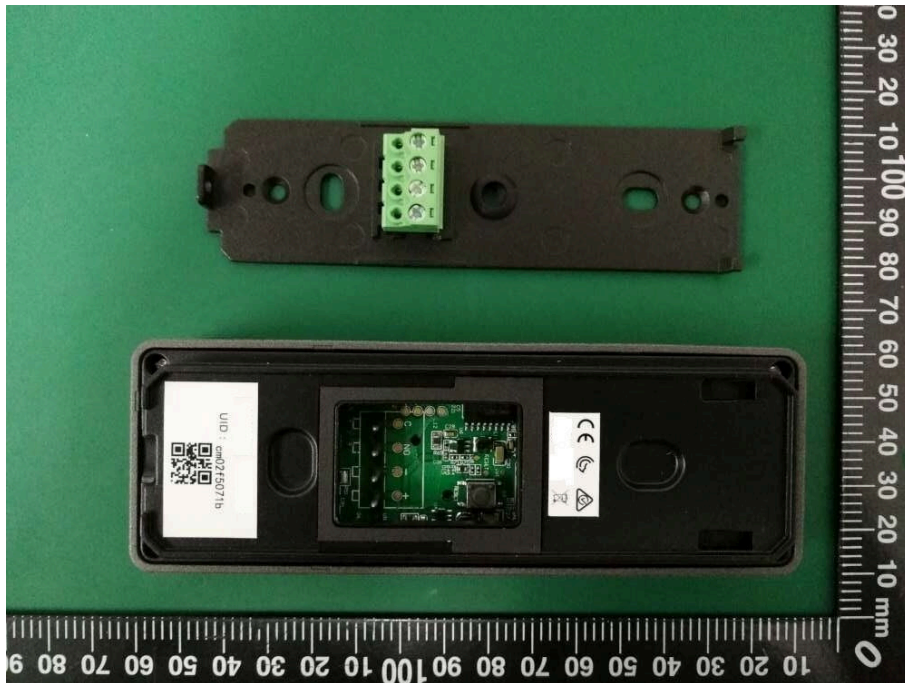
EUT View 6



EUT View 7

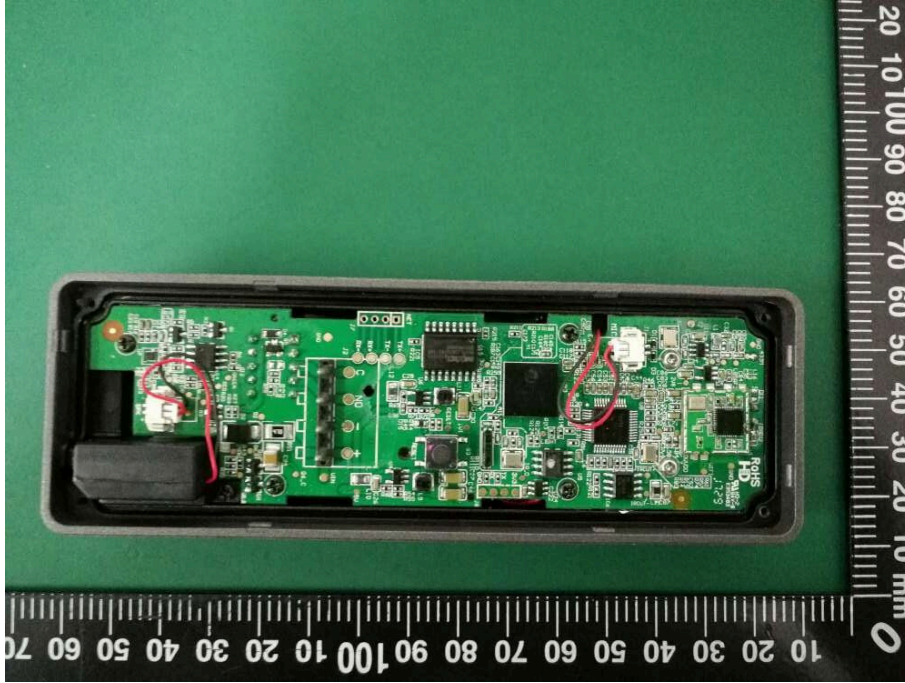


EUT View 8

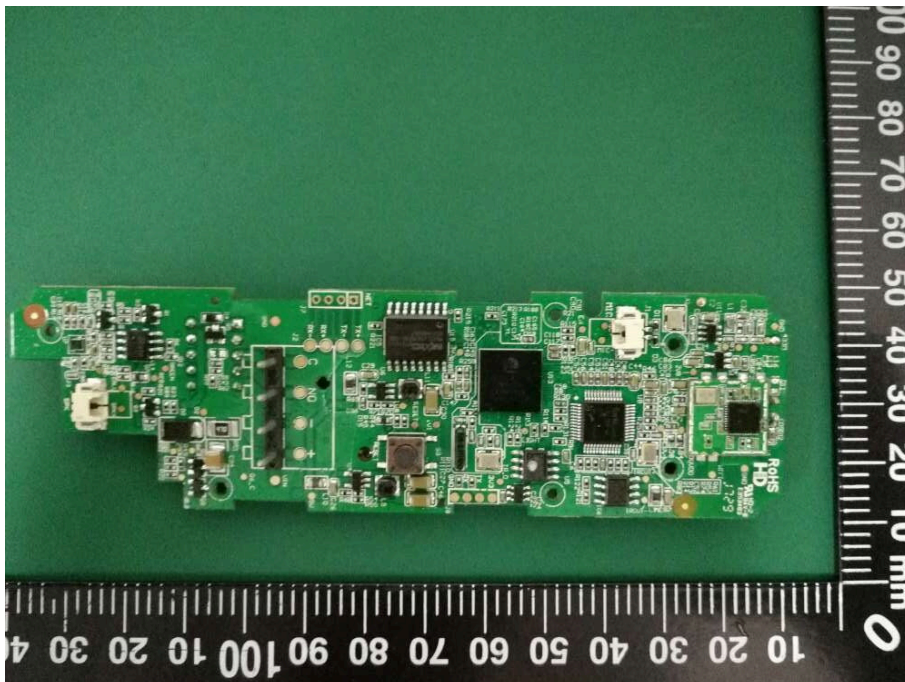


Annex B. EUT Internal Photos

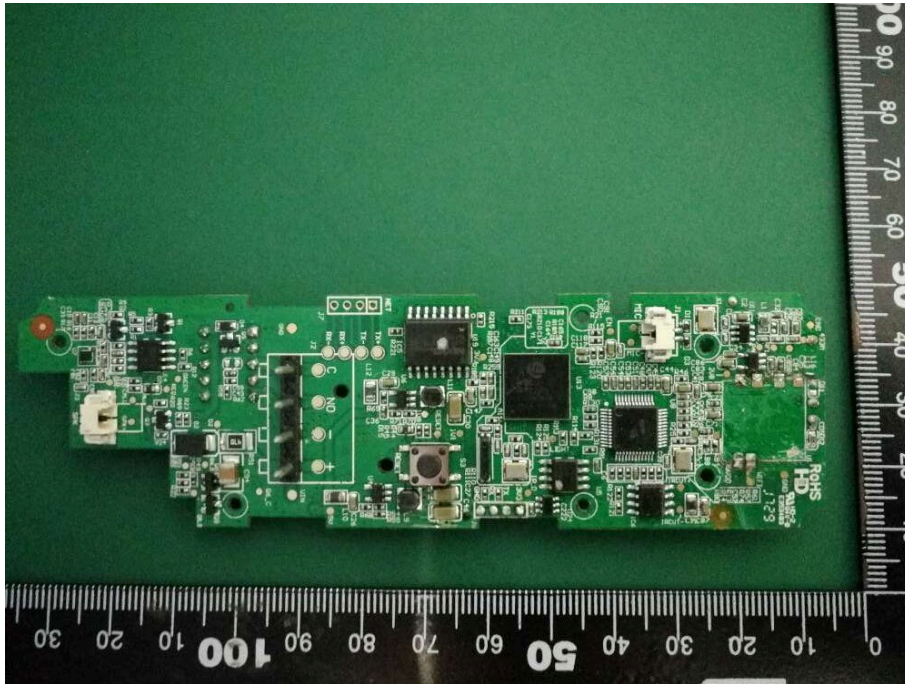
EUT Internal View 1



EUT Internal View 2



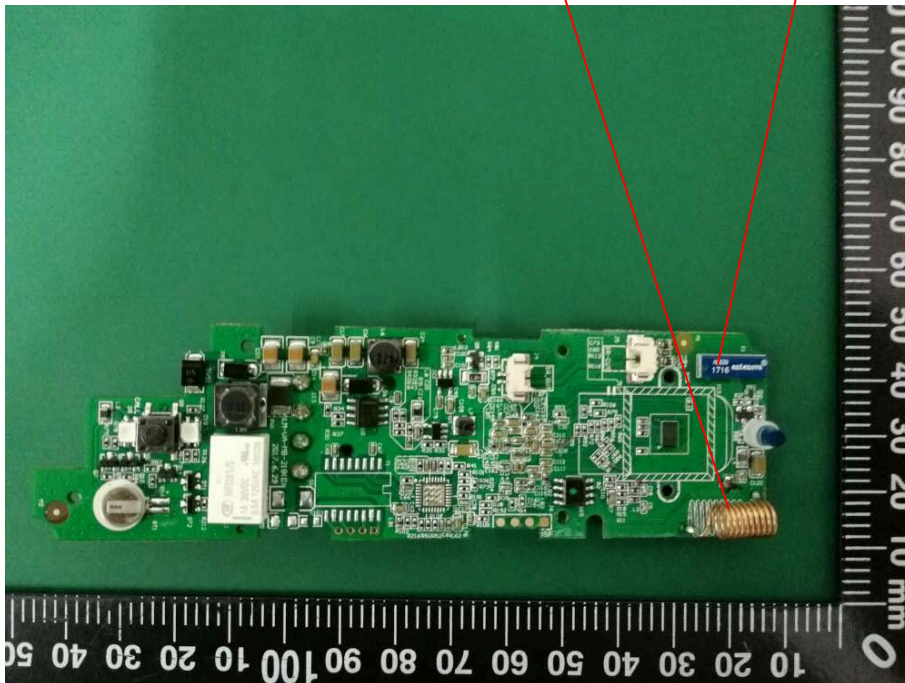
EUT Internal View 3



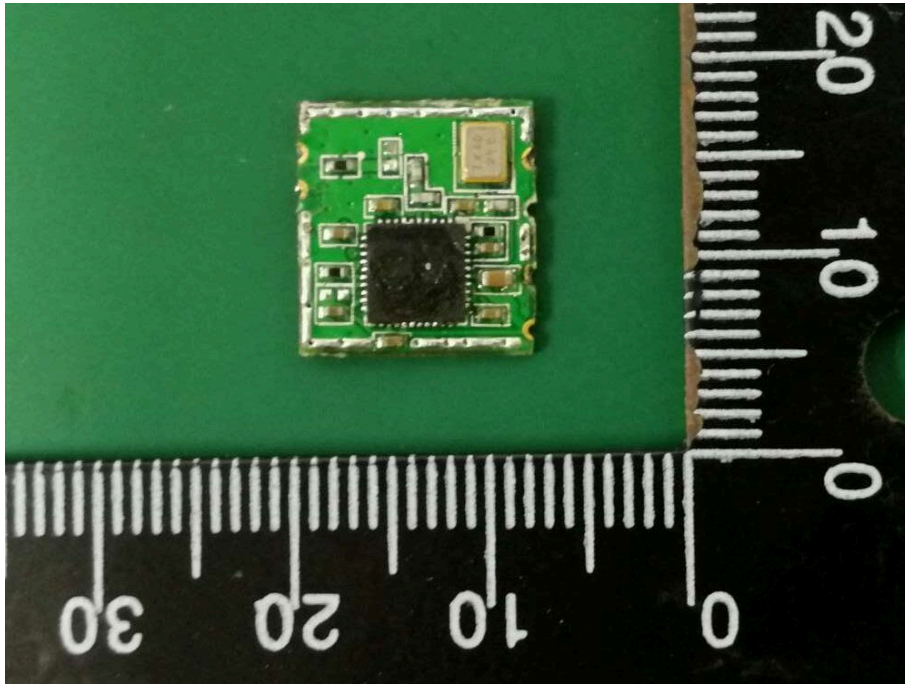
EUT Internal View 4

433.92MHz Antenna

Wi-Fi Antenna



EUT Internal View 5



EUT Internal View 6

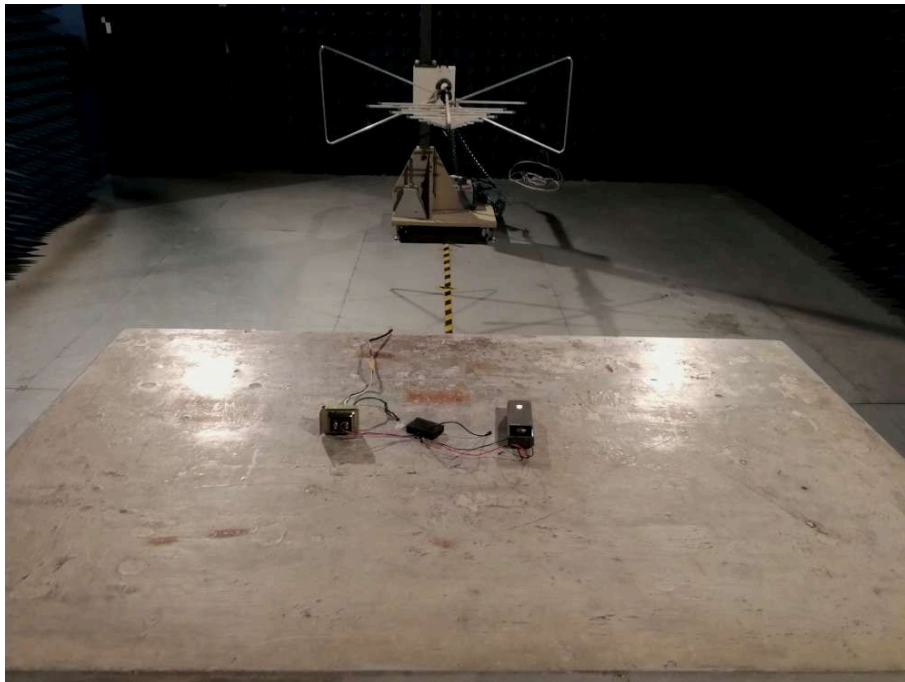


Annex C. Test Photos

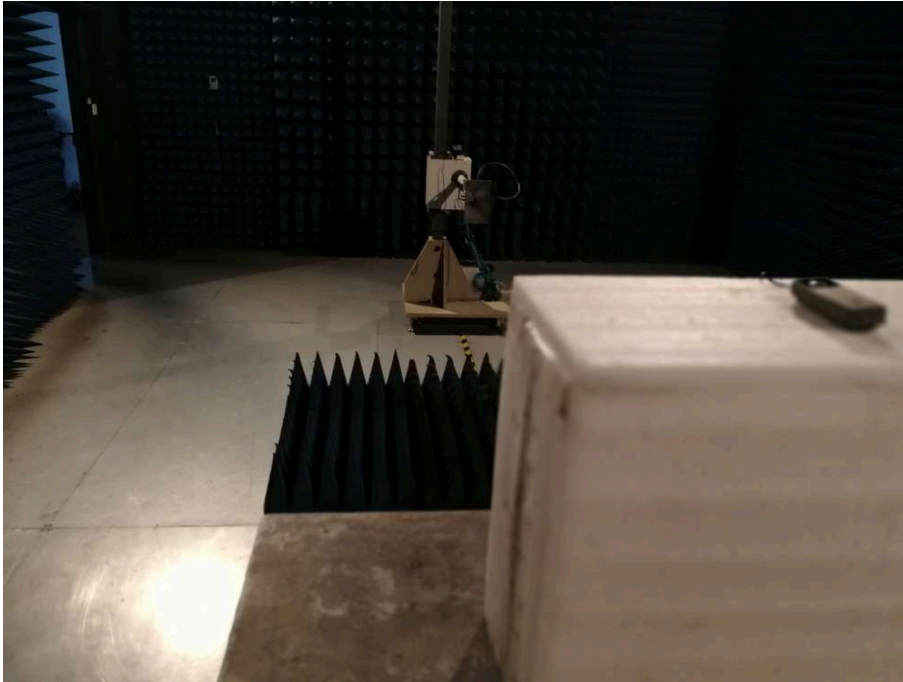
Conducted Emission



Radiated Emissions (30MHz to 1GHz)



Radiated Emissions (1GHz to 5GHz)



Annex D. Label and Information

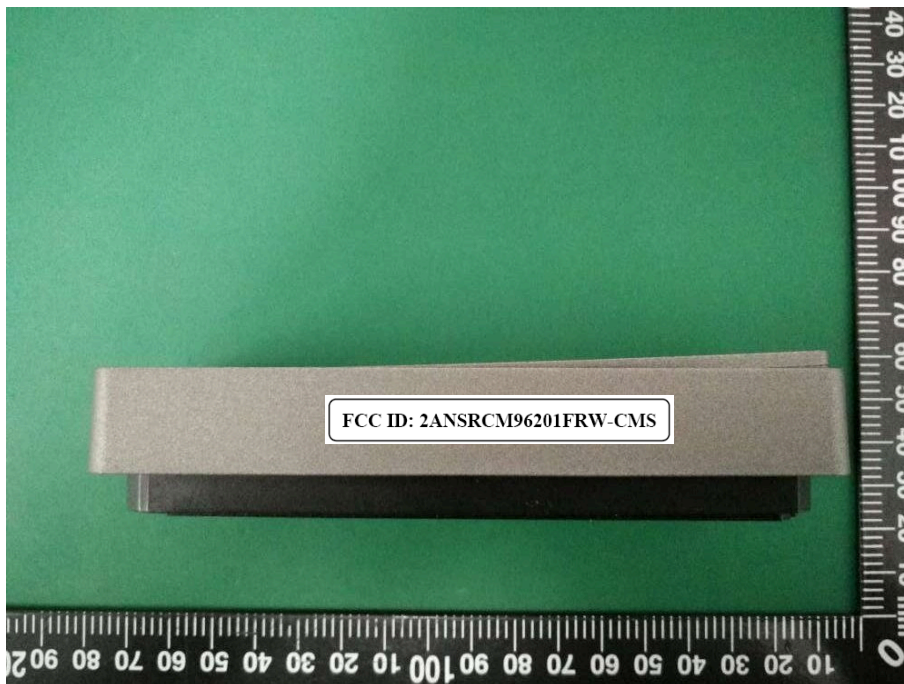
FCC Label Sample



FCC Label Specifications

Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. Where the EUT is constructed in two or more sections connected by wires and marketed together, the above statement is required to be affixed only to the main control unit. When the EUT is so small or for such use that it is not practicable to place the statement on it, the above information shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed.

FCC Label Location



***** END OF REPORT *****