



FCC Test Report

Report No: FCS202112022W01

Issued for

| | |
|--|---|
| Applicant: | Chongqing Qiujing Electronic Technology Co |
| Address: | No.3, Lisong Road, Huaxi Industrial Park, Banan District, Chongqing |
| Product Name: | Wireless remote controller |
| Brand Name: | N/A |
| Model Name: | QJ002 |
| Series Model: | N/A |
| FCC ID: | 2A3X6-QJ002 |
| Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com | |

TEST RESULT CERTIFICATION

Applicant's Name.....: Chongqing Qiujing Electronic Technology Co
Address.....: No.3, Lisong Road, Huaxi Industrial Park, Banan District, Chongqing
Manufacture's Name.....: Chongqing Qiujing Electronic Technology Co
Address.....: No.3, Lisong Road, Huaxi Industrial Park, Banan District, Chongqing

Product Description

Product Name.....: Wireless remote controller
Brand Name: N/A
Model Name.....: QJ002
Series Model.....: N/A
Test Standards.....: FCC Rules and Regulations Part 15 Subpart C, Section 231
Test Procedure.....: ANSI C63.10:2013

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

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Date of Test.....:

Date (s) of performance of tests.: 07 Dec. 2021 ~ 10 Dec. 2021

Date of Issue.....: 13 Dec. 2021

Test Result.....: Pass

Tested by : *Scott Shen*
(Scott Shen)

Reviewed by : *Duke Qian*
(Duke Qian)

Approved by : *Jack Wang*
(Jack Wang)



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Revision History

| Rev. | Issue Date | Effect Page | Contents |
|------|--------------|-------------|---------------|
| 00 | 13 Dec. 2021 | N/A | Initial Issue |
| | | | |

1. SUMMARY OF TEST RESULTS

| FCC Part 15.231,Subpart C | | | |
|---------------------------|---------------------|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | N/A | -- |
| 15.209, 15.231(b) | Radiated Emission | PASS | -- |
| 15.231(a) (1) | Transmitter time | PASS | -- |
| 15.231(c) | 20dB Bandwidth | PASS | |
| 15.231 | Duty cycle | PASS | -- |
| 15.203 | Antenna Requirement | PASS | -- |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report
(2) All tests are according to ANSI C63.10-2013

1.1 TEST LABORATORY

| | |
|---|--|
| Company Name: | Flux Compliance Service Laboratory |
| Address: | Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan |
| Telephone: | +86-769-27280901 |
| Fax: | +86-769-27280901 |
| Laboray Accreditations | |
| FCC Test Firm Registration Number: 514908 | |
| CNAS Number: L15566 | |
| Designation number: CN0127 | |
| A2LA accreditation number: 5545.01 | |
| ISED Number: 25801 | |

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

| No. | Item | Uncertainty |
|-----|--|-----------------------|
| 1 | RF output power, conducted | $\pm 0.71 \text{ dB}$ |
| 2 | Unwanted Emissions, conducted | $\pm 2.98 \text{ dB}$ |
| 3 | Conducted Emission (9KHz-150KHz) | $\pm 4.13 \text{ dB}$ |
| 4 | Conducted Emission (150KHz-30MHz) | $\pm 4.74 \text{ dB}$ |
| 5 | All emissions, radiated(<1G) 30MHz-1000MHz | $\pm 3.2 \text{ dB}$ |
| 6 | All emissions, radiated (1GHz -18GHz) | $\pm 3.66 \text{ dB}$ |
| 7 | All emissions, radiated (18GHz -40GHz) | $\pm 4.31 \text{ dB}$ |

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

| | |
|-------------------------|---|
| Product Name | Wireless remote controller |
| Trade Name | N/A |
| Model Name | QJ002 |
| Series Model | N/A |
| Model Difference | N/A |
| Frequency | 433.92MHZ |
| Modulation | <input checked="" type="checkbox"/> ASK |
| Antenna type | <input type="checkbox"/> Internal antenna <input checked="" type="checkbox"/> PCB antenna |
| Power Supply | DC 6V |
| Battery | button cell DC 6V |
| Hardware version number | V1.0 |
| Software version number | V1.0 |
| Connecting I/O Port(s) | Please refer to the User's Manual |

Note:

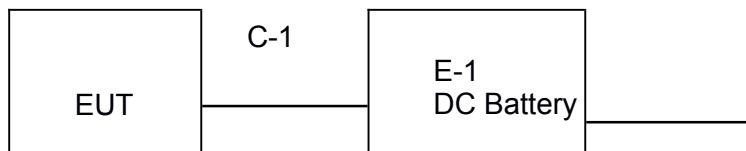
1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|------|-------|------------|--------------|-----------|------------|---------|
| 1 | N/A | N/A | PCB antenna | N/A | 1.0 dBi | Antenna |

2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Configuration and peripherals



Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range: 21-25°C

Humidity range: 40-75%

Pressure range: 86-106kPa

Note: EUT use the new battery during the test

2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

| Item | Equipment | Mfr/Brand | Model/Type No. | Serial No. | Note |
|------|-----------|-----------|----------------|------------|------|
| N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

Support units

| Item | Equipment | Mfr/Brand | Model/Type No. | Serial No. | Note |
|------|-----------|-----------|----------------|------------|------|
| N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

2.4 EQUIPMENTS LIST

Radiation Test equipment

| Kind of Equipment | Manufacturer | Type No. | Company No. | Last calibration | Calibrated until |
|----------------------------------|--------------|--------------|-------------|------------------|------------------|
| EMI Test Receiver | R&S | ESRP 3 | FCS-E001 | 2021.01.28 | 2022.01.27 |
| Signal Analyzer | R&S | FSV40-N | FCS-E012 | 2021.01.28 | 2022.01.27 |
| Active loop Antenna | ZHINAN | ZN30900C | FCS-E013 | 2021.01.28 | 2022.01.27 |
| Bilog Antenna | SCHWARZBECK | VULB 9168 | FCS-E002 | 2021.01.28 | 2022.01.27 |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | FCS-E003 | 2021.01.28 | 2022.01.27 |
| SHF-EHF Horn Antenna (18G-40GHz) | A-INFO | LB-180400-KF | FCS-E018 | 2021.01.28 | 2022.01.27 |
| Pre-Amplifier(0.1M-3GHz) | EMCI | EM330N | FCS-E004 | 2021.01.28 | 2022.01.27 |
| Pre-Amplifier (1G-18GHz) | N/A | TSAMP-0518SE | FCS-E014 | 2021.01.28 | 2022.01.27 |
| Pre-Amplifier (18G-40GHz) | TERA-MW | TRLA-0400 | FCS-E019 | 2021.01.28 | 2022.01.27 |
| Temperature & Humidity | HTC-1 | victor | FCS-E005 | 2021.01.28 | 2022.01.27 |

Conduction Test equipment

| Kind of Equipment | Manufacturer | Type No. | Company No. | Last calibration | Calibrated until |
|------------------------|--------------|----------|-------------|------------------|------------------|
| EMI Test Receiver | R&S | ESPI | FCS-E020 | 2021.01.28 | 2022.01.27 |
| LISN | R&S | ENV216 | FCS-E007 | 2021.01.28 | 2022.01.27 |
| LISN | ETS | 3810/2NM | FCS-E009 | 2021.01.28 | 2022.01.27 |
| Temperature & Humidity | HTC-1 | victor | FCS-E008 | 2021.01.28 | 2022.01.27 |

RF Connected Test

| Kind of Equipment | Manufacturer | Type No. | Company No. | Last calibration | Calibrated until |
|-------------------|--------------|----------|-------------|------------------|------------------|
| Spectrum Analyzer | Keysight | N9020A | FCS-E015 | 2021.01.28 | 2022.01.27 |
| Spectrum Analyzer | Agilent | E4447A | MY50180039 | 2021.01.28 | 2022.01.27 |
| Spectrum Analyzer | R&S | FSV-40 | 101499 | 2021.01.28 | 2022.01.27 |

3 CONDUCTED EMISSION MEASUREMENT

3.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

| FREQUENCY (MHz) | Conducted Emissionlimit (dBuV) | |
|-----------------|--------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

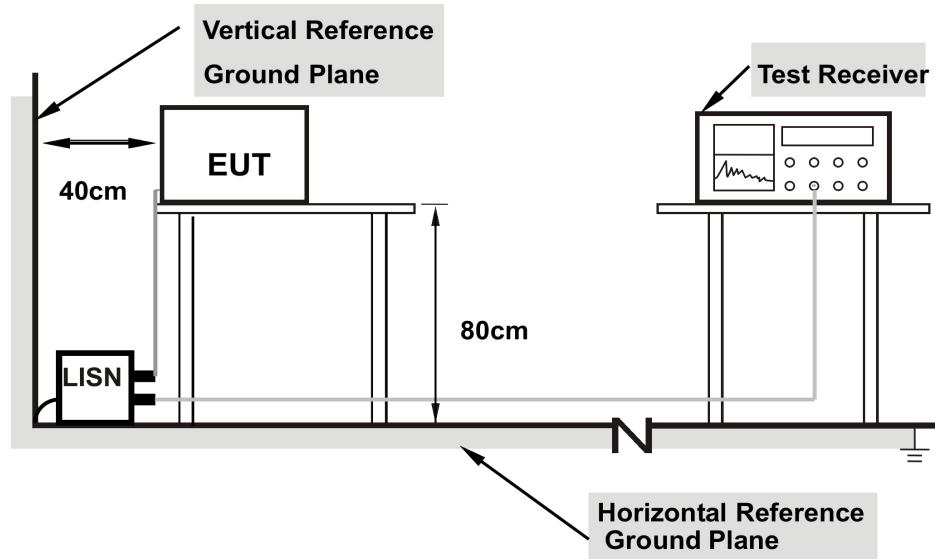
3.2 TEST PROCEDURE

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.4 TEST RESULTS

| | | | |
|--------------|------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 50% |
| Test Mode: | N/A | Test Voltage: | N/A |
| Result: | N/A | | |

4. RADIATED EMISSION MEASUREMENT

4.1 LIMIT

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009mhz - 1000mhz)

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

| FREQUENCY (MHz) | (dBuV/m) (at 3M) | |
|-----------------|------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

LIMITS OF FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL

| FREQUENCY (MHz) | (dBuV/m) (at 3M) | |
|-----------------|------------------|---------|
| | PEAK | AVERAGE |
| 433.92 | 100.83 | 80.83 |

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:
Limit_{3m}(dBuV/m) = Limit_{300m}(dBuV/m) + 40Log(300m/3m) = Limit_{300m}(dBuV/m) + 80
Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m) = Limit_{30m}(dBuV/m) + 40

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions include fundamental emission shall not exceed FCC 15.231 section (b) limit of comply with FCC 15.209 limit which permit higher emission level.

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

4.2 TEST PROCEDURE

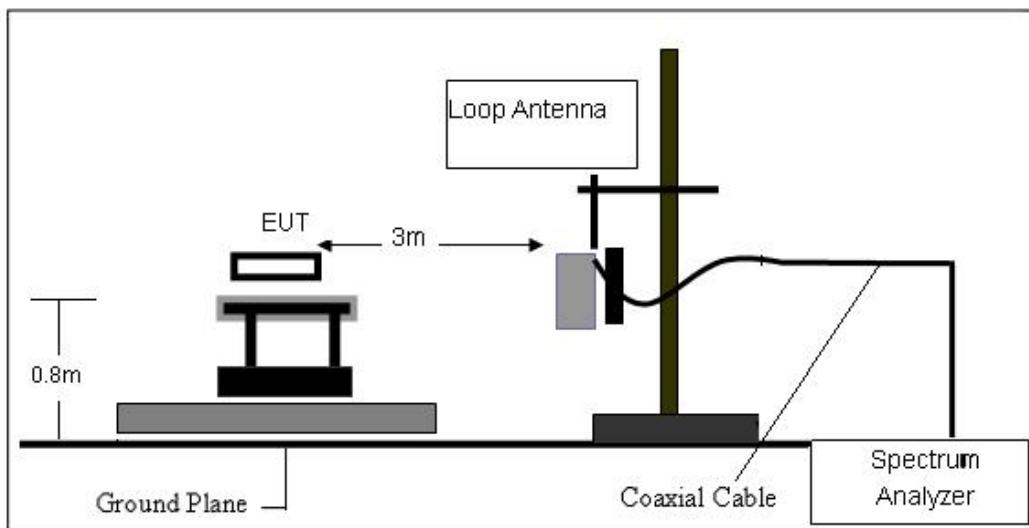
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

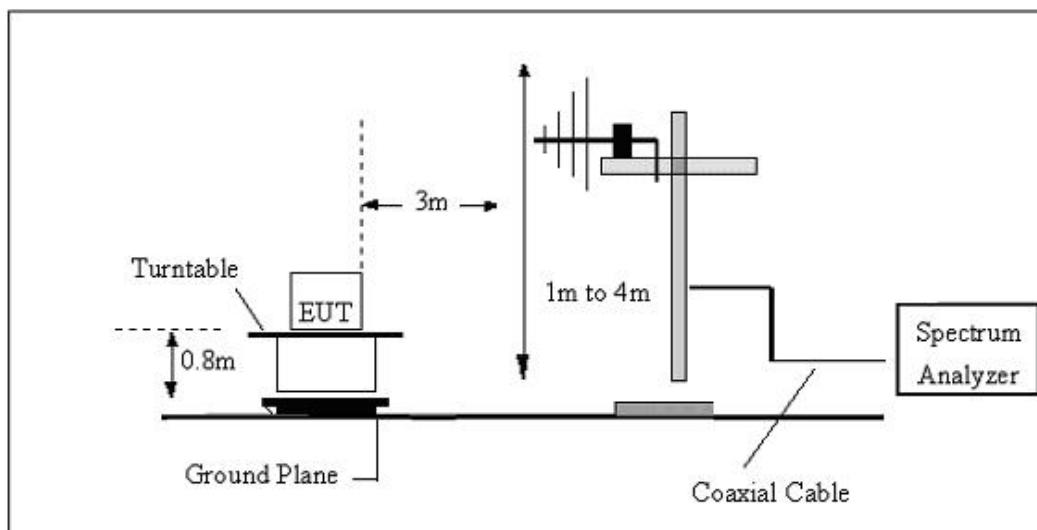
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 TEST SETUP

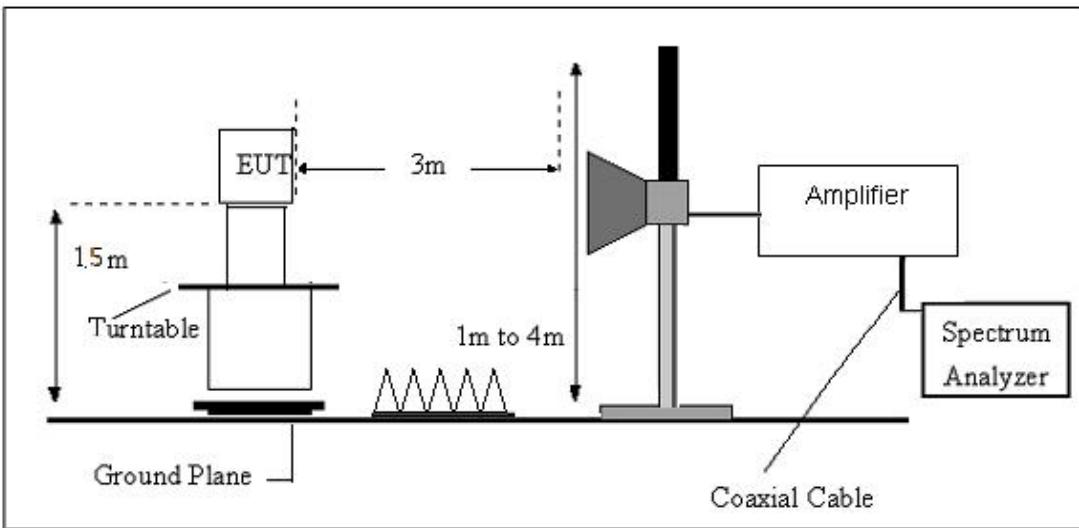
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 TEST RESULTS

| | | | |
|--------------|------|--------------------|-------|
| Temperature: | 25°C | Relative Humidity: | 60% |
| Test Mode: | ASK | Test Voltage: | DC 6V |

For field strength of the fundamental signal

Peak value

| Frequency (MHz) | Peak Level(dBuV/m) | Peak limit (dBuV/m) | Over Limit(dB) | Polarization |
|-----------------|--------------------|---------------------|----------------|--------------|
| 433.92 | 80.78 | 100.83 | -20.05 | H |
| 433.92 | 79.81 | 100.83 | -21.02 | V |

Average value

| Frequency (MHz) | AV Level (dBuV/m) | AV limit (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-------------------|-----------------|--------------|
| 433.92 | 76.60 | 80.83 | -4.23 | H |
| 433.92 | 75.63 | 80.83 | -5.20 | V |

Note: av Level=pk level +PDCF

Duty cycle factor= -4.18dB

For spurious emission

(9KHz-30MHz)

| Freq. (MHz) | Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | State P/F | Test Result |
|----------------|---------------------|-------------------|----------------|--------------|-------------|
| -- | -- | -- | -- | -- | PASS |
| -- | -- | -- | -- | -- | PASS |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits (dBuv) + distance extrapolation factor.

(30MHz-1000MHz)

| | | | |
|---------------|--------|--------------------|------------|
| Temperature: | 23.7°C | Relative Humidity: | 60% |
| Test Voltage: | DC 6V | Phase: | Horizontal |
| Test Mode: | ASK | | |

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 39.8542 | 31.32 | -17.16 | 14.16 | 40.00 | -25.84 | QP |
| 2 | 50.9420 | 31.89 | -16.40 | 15.49 | 40.00 | -24.51 | QP |
| 3 | 103.0800 | 30.87 | -17.54 | 13.33 | 43.50 | -30.17 | QP |
| 4 | 202.8104 | 31.94 | -15.48 | 16.46 | 43.50 | -27.04 | QP |
| 5 | 440.1963 | 30.62 | -11.34 | 19.28 | 46.00 | -26.72 | QP |
| 6 | 694.4174 | 30.22 | -6.51 | 23.71 | 46.00 | -22.29 | QP |



| | | | |
|---------------|--------|--------------------|----------|
| Temperature: | 22.7°C | Relative Humidity: | 60% |
| Test Voltage: | DC 6V | Phase: | Vertical |
| Test Mode: | ASK | | |

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 38.7518 | 31.15 | -16.95 | 14.20 | 40.00 | -25.80 | QP |
| 2 | 49.7068 | 31.50 | -16.31 | 15.19 | 40.00 | -24.81 | QP |
| 3 | 110.5687 | 30.45 | -17.07 | 13.38 | 43.50 | -30.12 | QP |
| 4 | 200.6881 | 30.99 | -15.48 | 15.51 | 43.50 | -27.99 | QP |
| 5 | 322.1886 | 30.86 | -13.23 | 17.63 | 46.00 | -28.37 | QP |
| 6 | 576.6443 | 31.21 | -8.77 | 22.44 | 46.00 | -23.56 | QP |



(1GHZ~5GHZ)

| Freq. (MHz) | Ant.PoL | Emission Level(dBuV/m) | | Limit 3m(dBuV/m) | | Margin(dB) | |
|----------------|---------|---------------------------|-------|------------------|-------|------------|--------|
| | | PK | AV | PK | AV | PK | AV |
| 1301.76 | V | 60.98 | 48.12 | 80.82 | 60.82 | -19.84 | -12.70 |
| 1735.68 | V | 58.81 | 42.79 | 80.82 | 60.82 | -22.01 | -18.03 |
| 2169.60 | V | 54.10 | 41.56 | 80.82 | 60.82 | -26.72 | -19.32 |
| 2603.52 | V | 53.32 | 39.75 | 80.82 | 60.82 | -27.50 | -21.07 |
| 1301.76 | H | 57.80 | 43.30 | 80.82 | 60.82 | -23.40 | -17.52 |
| 1735.68 | H | 55.78 | 43.31 | 80.82 | 60.82 | -25.04 | -17.51 |
| 2169.60 | H | 54.55 | 41.43 | 80.82 | 60.82 | -26.27 | -19.39 |
| 2603.52 | H | 53.20 | 41.53 | 80.82 | 60.82 | -27.62 | -19.29 |

Note: 1. Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

2: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

3. Measuring frequencies from 9k~10th harmonic , No emission found between lowest internal used/generated frequency to 30MHz.

4. Other emissions are attenuated 20dB below the limits, so it does not record

5. TRANSMITTER TIME

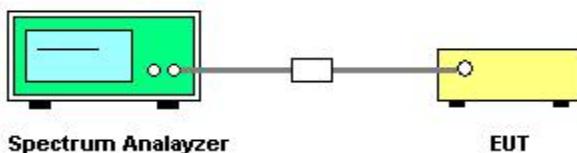
5.1 LIMIT

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released

5.2 TEST PROCEDURE

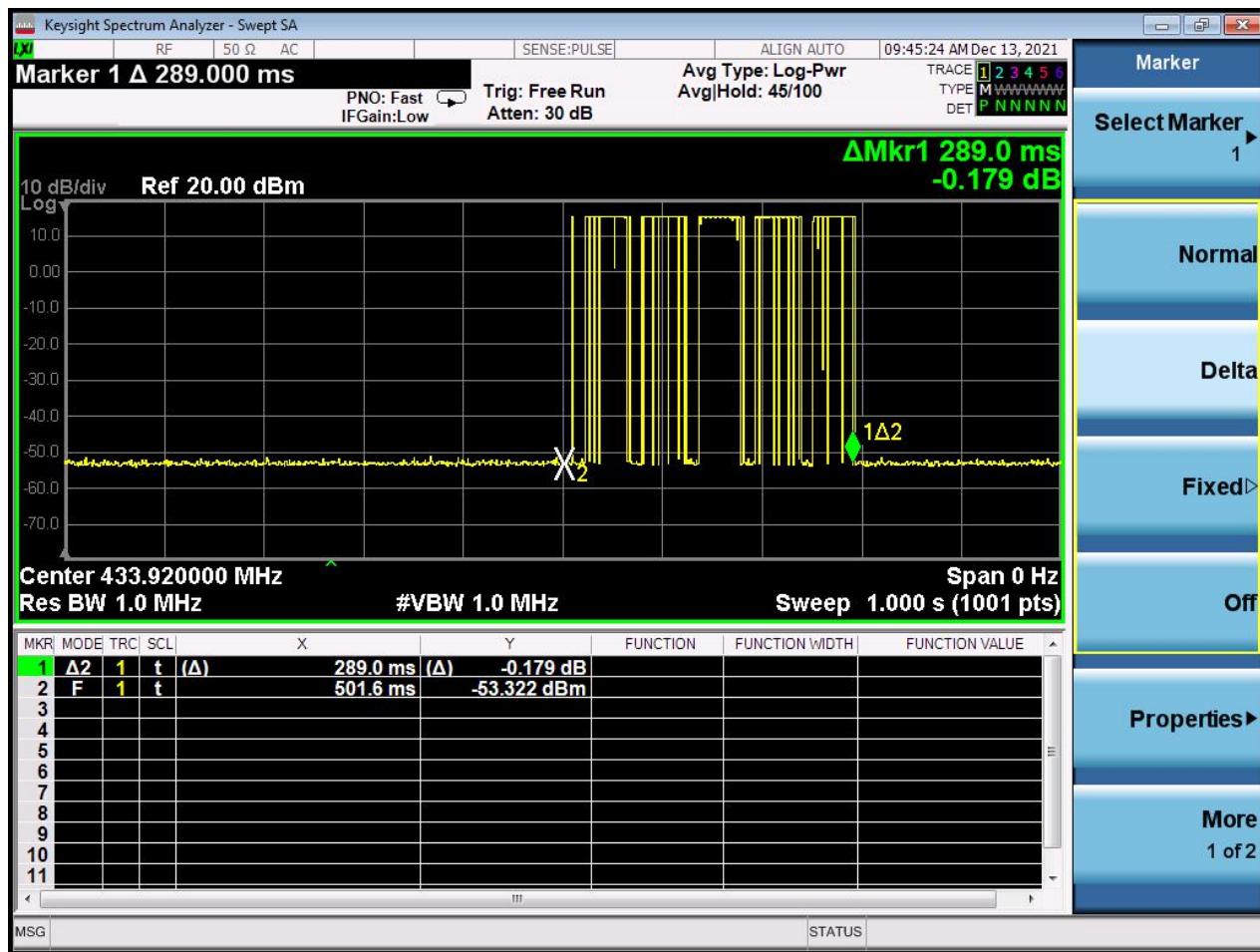
- a. The EUT's RF signal was coupled to spectrum analyzer by antenna connected to spectrum analyzer.
- b. Set the spectrum to zero span mode, and centered of EUT frequency.
- c. Measure the stop transmitting time after release EUT button

5.3 TEST SETUP



5.4 TEST RESULTS

| Frequency(MHz) | Limit | Result |
|----------------|-----------|--------|
| 433.92 | $\leq 5s$ | Pass |



6. 20 DB BANDWIDTH TEST

6.1 LIMIT

The bandwidth of the emission shall be no wider than 0.25% of the center frequency of devices operation above 70MHz and below 900MHz.

6.2 TEST PROCEDURE

Connect EUT's antenna output to spectrum analyzer by RF cable.

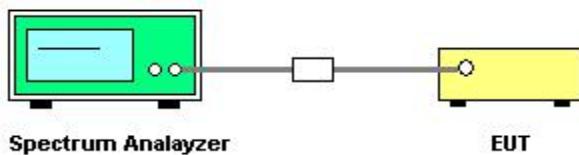
a.

The bandwidth of the fundamental frequency was measured by spectrum analyzer with

3Hz RBW and 10kHz VBW. The 20dB bandwidth is defined as the total spectrum the

b. power of which is higher than peak power minus 20dB

6.3 TEST SETUP



6.4 TEST RESULTS

| | | | |
|--------------|------|--------------------|-------|
| Temperature: | 25°C | Relative Humidity: | 50% |
| Test Mode: | ASK | Test Voltage: | DC 6V |

| Frequency | 20dB Bandwidth (KHz) | Result |
|------------|----------------------|--------|
| 433.92 MHz | 46.08 | PASS |



7. DUTY CYCLE

7.1 LIMIT

None: for reporting purposes only.

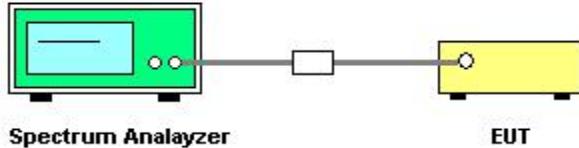
7.2 TEST PROCEDURE

Set the Centre frequency of the spectrum analyzer to the transmitting frequency;

- a. Set the span=0MHz, RBW=1MHz, VBW=3MHz, Sweep time=500.00ms;

Trace mode = Single hold

7.3 TEST SETUP



7.4 TEST RESULTS

| Frequency | Duty Cycle |
|------------|------------|
| 433.92 MHz | 61.80% |

The duty cycle is simply the on time divided by the period:

The duration of one cycle = 178ms

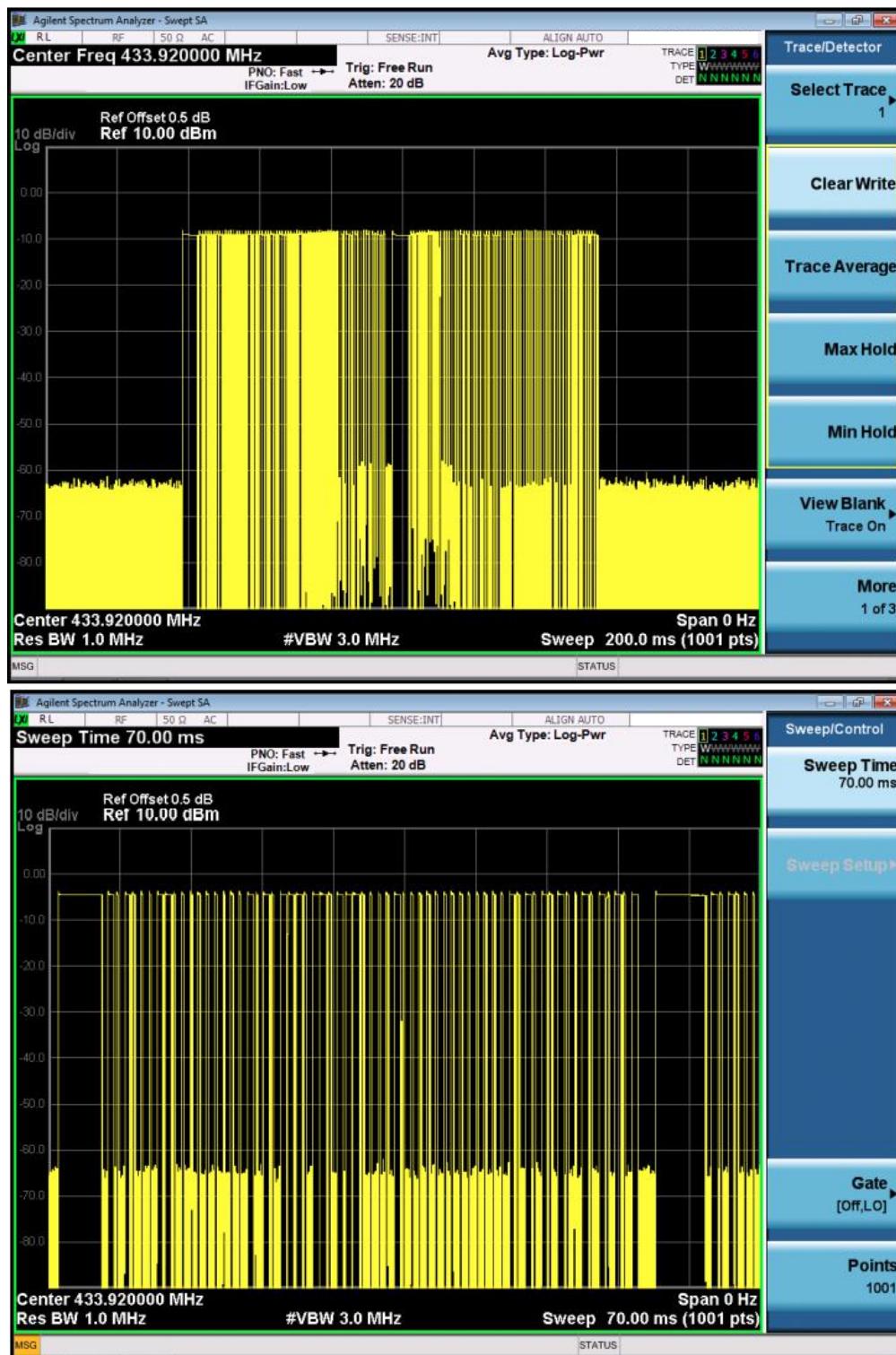
Effective period of the cycle = $(4.95*1+0.69*23+0.24*42)*2/16000\text{ms}=61.80\text{ms}$

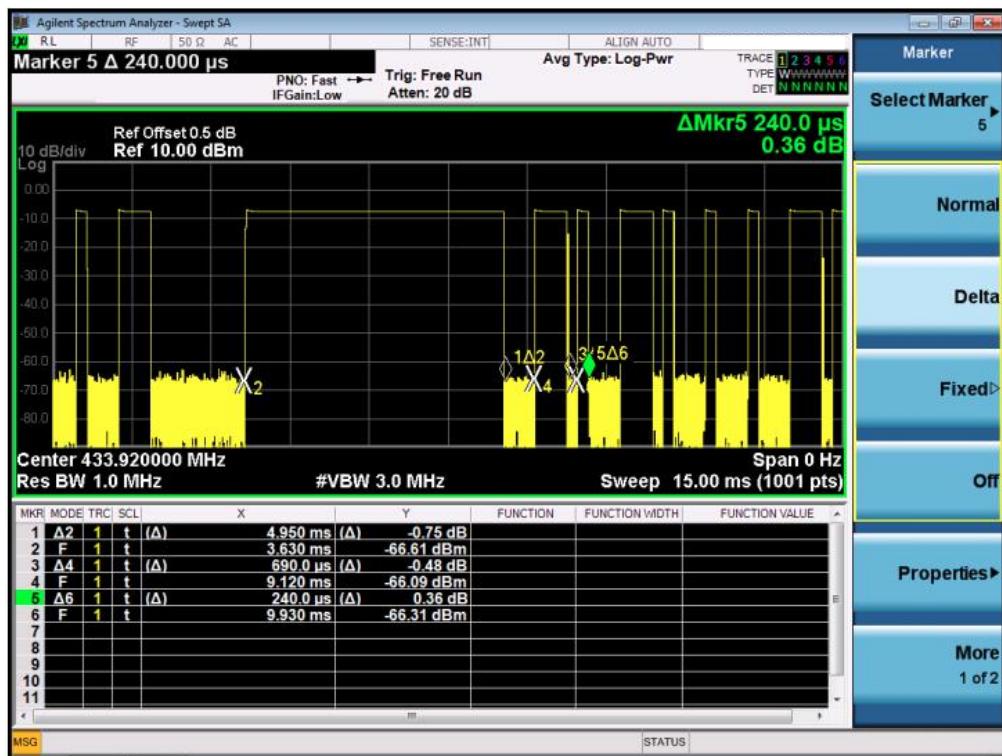
Duty Cycle = $61.80\text{ms}/100\text{ms} = 0.618=61.80\%$

Duty Cycle Factor(dB)= $20\log(\text{duty cycle}(\%)) = -4.18\text{dB}$

Original test data







8 . ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

The antennas used for this product are PCB antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.0 dBi.

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