

TEST REPORT

Applicant: Shenzhen Macross Automation Technology Co., Ltd.

Address of Applicant: Room 301-3, #5 Building, Jianghao Technical Park, Bantian St. Longgang District, Shenzhen, China

Manufacturer/Factory: Shenzhen Macross Automation Technology Co., Ltd.

Address of Manufacturer/Factory: Room 301-3, #5 Building, Jianghao Technical Park, Bantian St. Longgang District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Indoor/Outdoor Wireless Motion Sensor and Driveway Alarm for Home Security System

Model No.: HS-003

Trade Mark: eMACROS

FCC ID: 2AXOF-HS003

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.231

Date of sample receipt: January 11, 2022

Date of Test: January 12-20, 2022

Date of report issued: January 20, 2022

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Luo

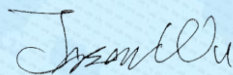
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

| Version No. | Date | Description |
|-------------|------------------|-------------|
| 00 | January 20, 2022 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:



Date:

January 20, 2022

Project Engineer

Check By:



Reviewer

Date:

January 20, 2022

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4 Test Summary

| Test Item | Section in | Result |
|--|--------------------------|--------|
| Antenna requirement | CFR 47 15.203 | Pass |
| Conduction Emission | CFR 47 15.207 | N/A |
| Field strength of the fundamental signal | CFR 47 15.231(e) | Pass |
| Spurious emissions | CFR 47 15.231(e) &15.209 | Pass |
| Occupy Bandwidth | CFR 47 15.231(c) | Pass |
| Dwell time | CFR 47 15.231(e) | Pass |

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission | 9kHz-30MHz | 3.1dB | (1) |
| Radiated Emission | 30MHz-200MHz | 3.8039dB | (1) |
| Radiated Emission | 200MHz-1GHz | 3.9679dB | (1) |
| Radiated Emission | 1GHz-18GHz | 4.29dB | (1) |
| Radiated Emission | 18GHz-40GHz | 3.30dB | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 3.44dB | (1) |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

| | |
|----------------------|---|
| Product Name: | Indoor/Outdoor Wireless Motion Sensor and Driveway Alarm for Home Security System |
| Model No.: | HS-003 |
| Serial No.: | HS003N2112020412 |
| Hardware Version: | HS_003_T_V1 |
| Software Version: | HS_003_T_V1.2 |
| Test sample(s) ID: | GTS202201000053-1 |
| Sample(s) Status | Engineer sample |
| Operation Frequency: | 433.92MHz |
| Modulation type: | OOK |
| Antenna Type: | Internal Antenna |
| Antenna gain: | 2dBi(declare by applicant) |
| Power supply: | TX: DC 3V(2*3V Size"CR2450" Battery) |

5.2 Test mode

| | |
|-------------------|--|
| Transmitting mode | Keep the EUT in transmitting mode, the new battery was used in test. |
|-------------------|--|

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

| 433.92MHz | Axis | X | Y | Z |
|-----------|------------------------|-------|-------|-------|
| | Field Strength(dBuV/m) | 62.18 | 65.62 | 62.11 |

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”:
Y axis (see the test setup photo)

5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC—Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **IC —Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units

None.

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Other Information Requested by the Customer

None.

6 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|-------------------------------------|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | July. 02 2020 | July. 01 2025 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | June. 24 2021 | June. 23 2022 |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June. 24 2021 | June. 23 2022 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120 D | GTS208 | June. 24 2021 | June. 23 2022 |
| 6 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | June. 24 2021 | June. 23 2022 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 8 | Coaxial Cable | GTS | N/A | GTS213 | June. 24 2021 | June. 23 2022 |
| 9 | Coaxial Cable | GTS | N/A | GTS211 | June. 24 2021 | June. 23 2022 |
| 10 | Coaxial cable | GTS | N/A | GTS210 | June. 24 2021 | June. 23 2022 |
| 11 | Coaxial Cable | GTS | N/A | GTS212 | June. 24 2021 | June. 23 2022 |
| 12 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | June. 24 2021 | June. 23 2022 |
| 13 | Amplifier(2GHz-20GHz) | HP | 84722A | GTS206 | June. 24 2021 | June. 23 2022 |
| 14 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June. 24 2021 | June. 23 2022 |
| 15 | Band filter | Amindeon | 82346 | GTS219 | June. 24 2021 | June. 23 2022 |
| 16 | Power Meter | Anritsu | ML2495A | GTS540 | June. 24 2021 | June. 23 2022 |
| 17 | Power Sensor | Anritsu | MA2411B | GTS541 | June. 24 2021 | June. 23 2022 |
| 18 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | GTS575 | June. 24 2021 | June. 23 2022 |
| 19 | Splitter | Agilent | 11636B | GTS237 | June. 24 2021 | June. 23 2022 |
| 20 | Loop Antenna | ZHINAN | ZN30900A | GTS534 | June. 24 2021 | June. 23 2022 |
| 21 | Breitband hornantenne | SCHWARZBECK | BBHA 9170 | GTS579 | Oct. 17 2021 | Oct. 16 2022 |
| 22 | Amplifier | TDK | PA-02-02 | GTS574 | Oct. 17 2021 | Oct. 16 2022 |
| 23 | Amplifier | TDK | PA-02-03 | GTS576 | Oct. 17 2021 | Oct. 16 2022 |
| 24 | PSA Series Spectrum Analyzer | Rohde & Schwarz | FSP | GTS578 | June. 24 2021 | June. 23 2022 |

| RF Conducted Test: | | | | | | |
|---------------------------|--|---------------------|------------------|-------------------|--------------------------------|------------------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | MXA Signal Analyzer | Agilent | N9020A | GTS566 | June. 24 2021 | June. 23 2022 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June. 24 2021 | June. 23 2022 |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | June. 24 2021 | June. 23 2022 |
| 4 | MXG vector Signal Generator | Agilent | N5182A | GTS567 | June. 24 2021 | June. 23 2022 |
| 5 | ESG Analog Signal Generator | Agilent | E4428C | GTS568 | June. 24 2021 | June. 23 2022 |
| 6 | USB RF Power Sensor | DARE | RPR3006W | GTS569 | June. 24 2021 | June. 23 2022 |
| 7 | RF Switch Box | Shongyi | RFSW3003328 | GTS571 | June. 24 2021 | June. 23 2022 |
| 8 | Programmable Constant Temp & Humi Test Chamber | WEWON | WHTH-150L-40-880 | GTS572 | June. 24 2021 | June. 23 2022 |

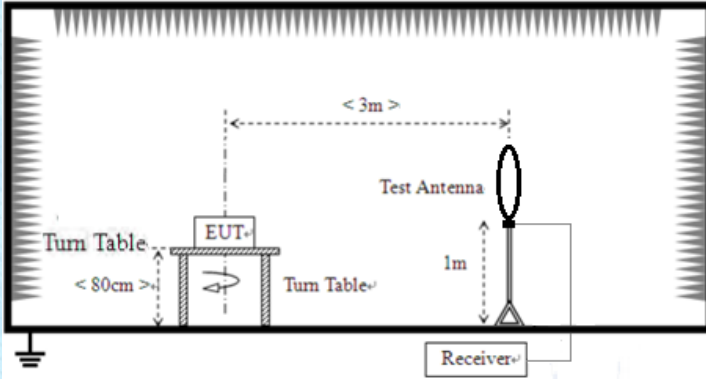
| General used equipment: | | | | | | |
|--------------------------------|---------------------------------|---------------------|------------------|----------------------|--------------------------------|------------------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Humidity/ Temperature Indicator | KTJ | TA328 | GTS243 | June. 24 2021 | June. 23 2022 |
| 2 | Barometer | ChangChun | DYM3 | GTS255 | June. 24 2021 | June. 23 2022 |

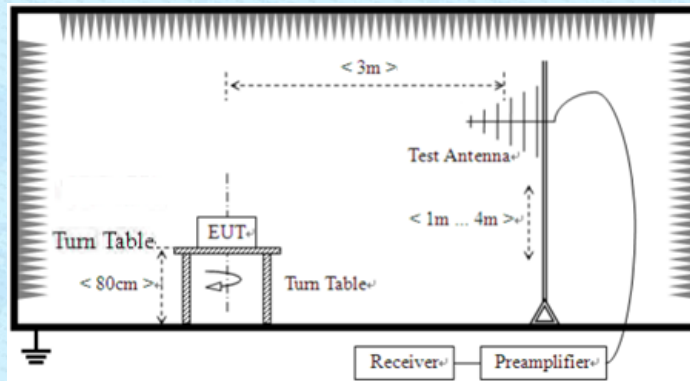
7 Test results and Measurement Data

7.1 Antenna requirement

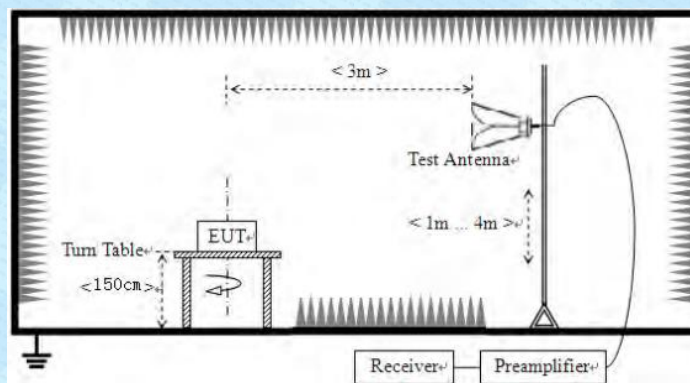
| | |
|------------------------------|--|
| Standard requirement: | FCC Part15 C Section 15.203 |
| 15.203 requirement: | An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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. |
| EUT Antenna: | |
| | The antenna is internal antenna, reference to the appendix II for details. |

7.2 Radiated Emission Method

| | | | | | |
|--|--|--------------------|---------|----------------------|------------|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 6000MHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| | 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| Peak | | 1MHz | 10Hz | Average | |
| Limit: (Field strength of the fundamental signal) | Frequency | Limit (dBuV/m @3m) | | Remark | |
| | 433.92MHz | 72.87 | | Average Value | |
| | | 92.87 | | Peak Value | |
| Limit: (Spurious Emissions) | Frequency | Limit (uV/m) | Value | Measurement Distance | |
| | 0.009MHz-0.490MHz | 2400/F(KHz) | QP | 300m | |
| | 0.490MHz-1.705MHz | 24000/F(KHz) | QP | 30m | |
| | 1.705MHz-30MHz | 30 | QP | 30m | |
| | 30MHz-88MHz | 100 | QP | 3m | |
| | 88MHz-216MHz | 150 | QP | | |
| | 216MHz-960MHz | 200 | QP | | |
| | 960MHz-1GHz | 500 | QP | | |
| | Above 1GHz | 500 | Average | | |
| | | 5000 | Peak | | |
| Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits a higher field strength. | | | | | |
| Test setup: | Below 30MHz | | | | |
| |  | | | | |
| Below 1GHz | | | | | |



Above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:

Refer to section 6.0 for details

Test mode:

Refer to section 5.2 for details

Test environment:

| | | | | | |
|--------|-------|---------|-----|---------|-----------|
| Temp.: | 25 °C | Humid.: | 50% | Press.: | 1 010mbar |
|--------|-------|---------|-----|---------|-----------|

Test voltage:

DC 3.0V

| | |
|---------------|------|
| Test results: | Pass |
|---------------|------|

Measurement data:**7.2.1 Field Strength of The Fundamental Signal****Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 433.92 | 84.54 | 15.58 | 3.02 | 37.52 | 65.62 | 72.87 | -7.25 | Horizontal |
| 433.92 | 83.54 | 15.58 | 3.02 | 37.52 | 64.62 | 72.87 | -8.25 | Vertical |

Remarks:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *PK Value under AV limit, then pass for AV value.*

7.2.2 Spurious emissions

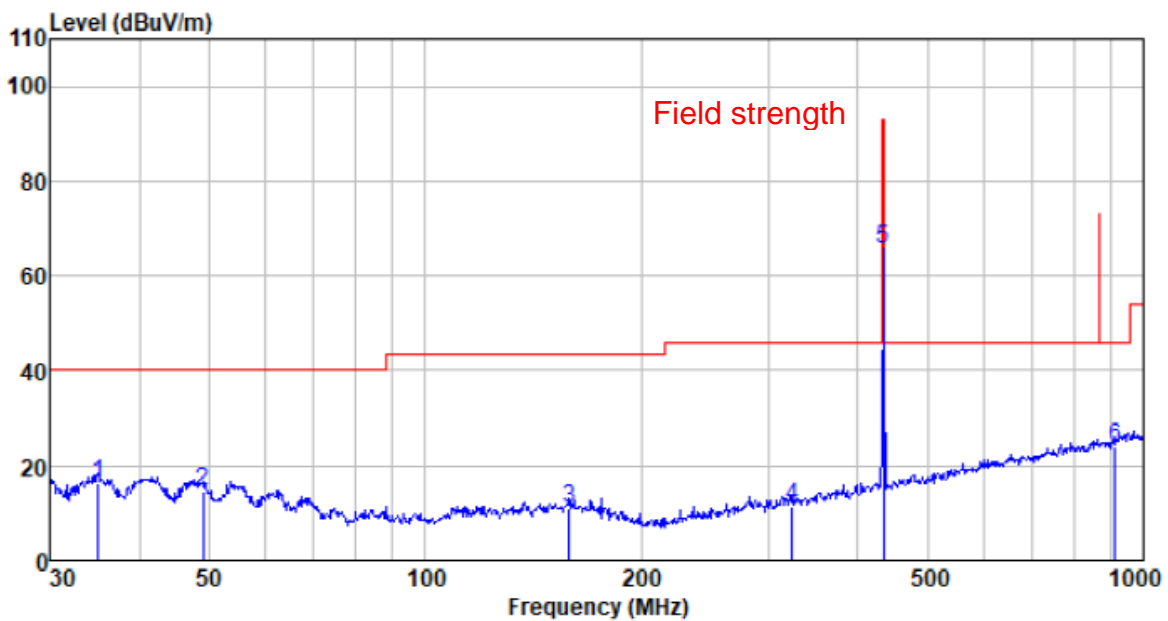
Measurement data:

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

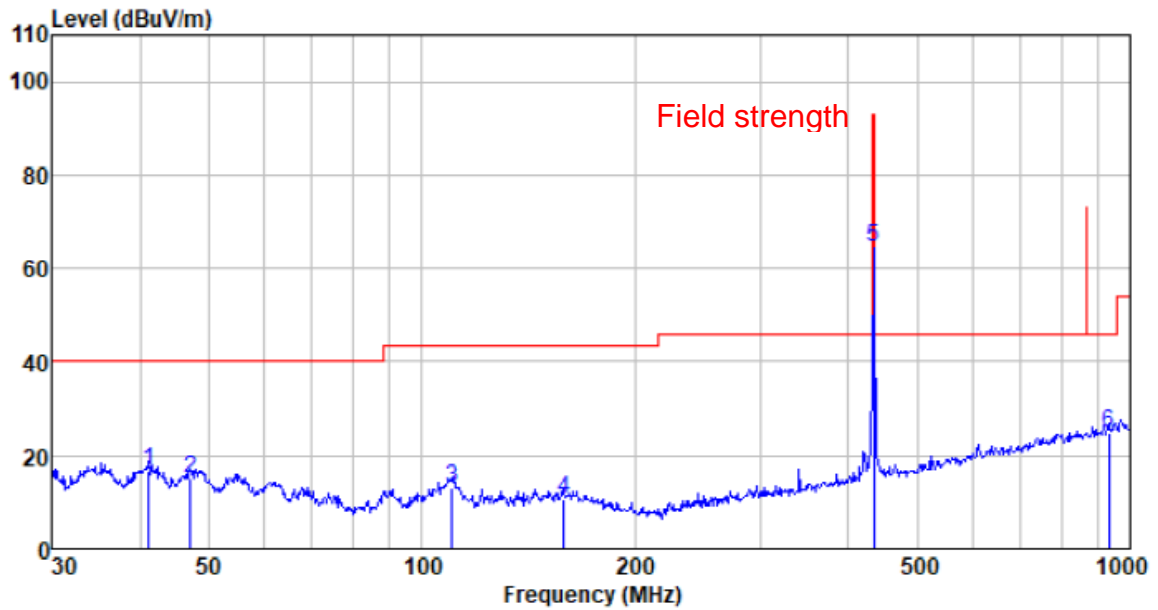
Below 1GHz:

| | | | |
|---------------|-----------|---------------|------------|
| Test channel: | 433.92MHz | Polarization: | Horizontal |
|---------------|-----------|---------------|------------|



| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 35.005 | 38.64 | 12.50 | 0.61 | 35.36 | 16.39 | 40.00 | -23.61 | QP |
| 49.014 | 37.15 | 13.02 | 0.76 | 36.13 | 14.80 | 40.00 | -25.20 | QP |
| 158.668 | 33.84 | 12.77 | 1.62 | 37.13 | 11.10 | 43.50 | -32.40 | QP |
| 324.456 | 33.38 | 13.09 | 2.49 | 37.45 | 11.51 | 46.00 | -34.49 | QP |
| 433.920 | 84.54 | 15.58 | 3.02 | 37.52 | 65.62 | 92.87 | -27.25 | Peak |
| 912.862 | 33.59 | 23.21 | 4.90 | 37.59 | 24.11 | 46.00 | -21.89 | QP |

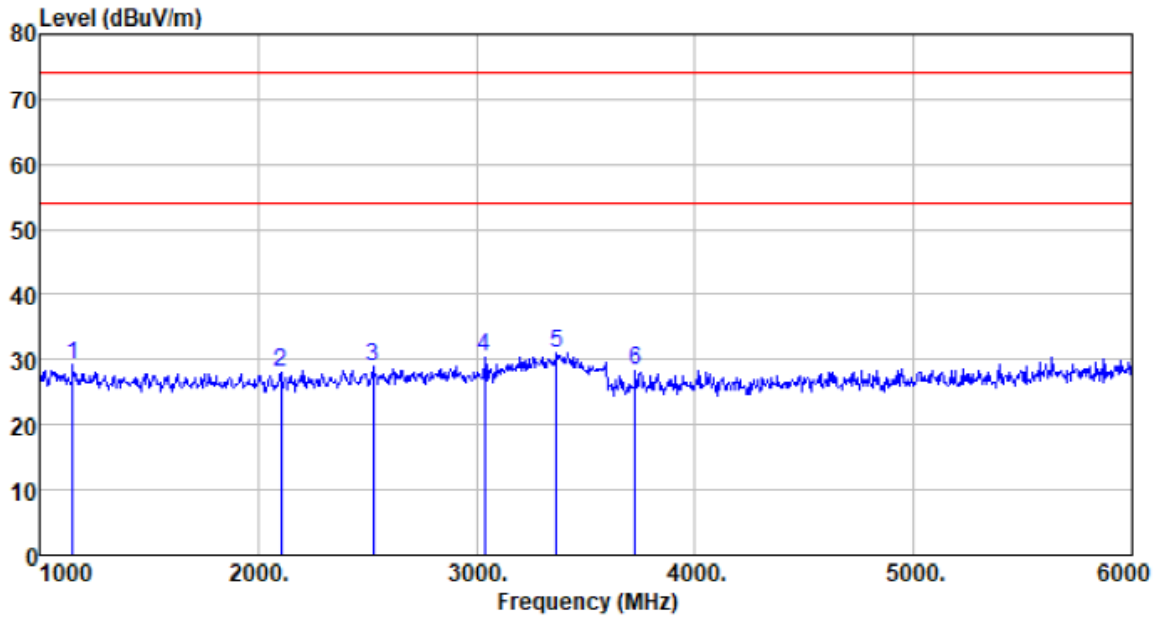
| | | | |
|---------------|-----------|---------------|----------|
| Test channel: | 433.92MHz | Polarization: | Vertical |
|---------------|-----------|---------------|----------|



| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 41.132 | 38.53 | 13.19 | 0.67 | 35.73 | 16.66 | 40.00 | -23.34 | QP |
| 47.160 | 37.30 | 12.99 | 0.74 | 36.04 | 14.99 | 40.00 | -25.01 | QP |
| 110.182 | 38.44 | 10.00 | 1.28 | 36.81 | 12.91 | 43.50 | -30.59 | QP |
| 158.668 | 33.39 | 12.77 | 1.62 | 37.13 | 10.65 | 43.50 | -32.85 | QP |
| 433.920 | 83.54 | 15.58 | 3.02 | 37.52 | 64.62 | 92.87 | -28.25 | Peak |
| 932.272 | 33.58 | 23.61 | 4.98 | 37.57 | 24.60 | 46.00 | -21.40 | QP |

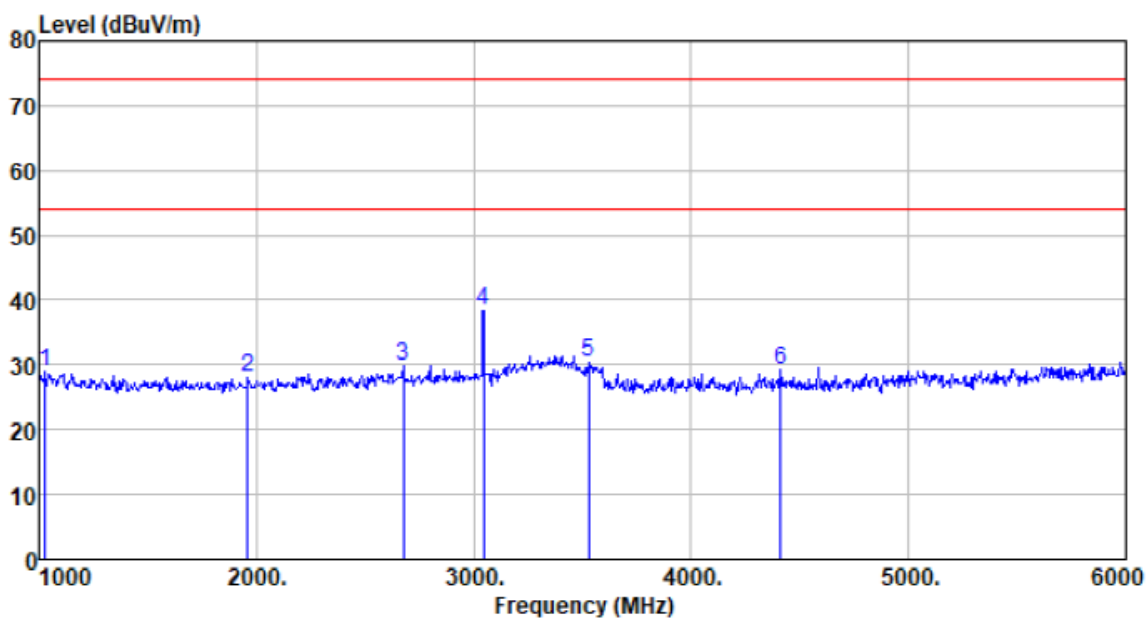
Above 1G:

| | | | |
|----------------------|------------------|----------------------|-------------------|
| Test channel: | 433.92MHz | Polarization: | Horizontal |
|----------------------|------------------|----------------------|-------------------|



| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 1150.000 | 38.12 | 24.71 | 2.11 | 35.86 | 29.08 | 74.00 | -44.92 | Peak |
| 2105.000 | 35.41 | 26.47 | 2.62 | 36.60 | 27.90 | 74.00 | -46.10 | Peak |
| 2525.000 | 34.98 | 27.73 | 3.04 | 36.96 | 28.79 | 74.00 | -45.21 | Peak |
| 3035.000 | 35.78 | 28.40 | 3.45 | 37.30 | 30.33 | 74.00 | -43.67 | Peak |
| 3365.000 | 36.29 | 28.40 | 3.63 | 37.34 | 30.98 | 74.00 | -43.02 | Peak |
| 3725.000 | 32.78 | 29.06 | 3.89 | 37.38 | 28.35 | 74.00 | -45.65 | Peak |

| | | | |
|---------------|-----------|---------------|----------|
| Test channel: | 433.92MHz | Polarization: | Vertical |
|---------------|-----------|---------------|----------|

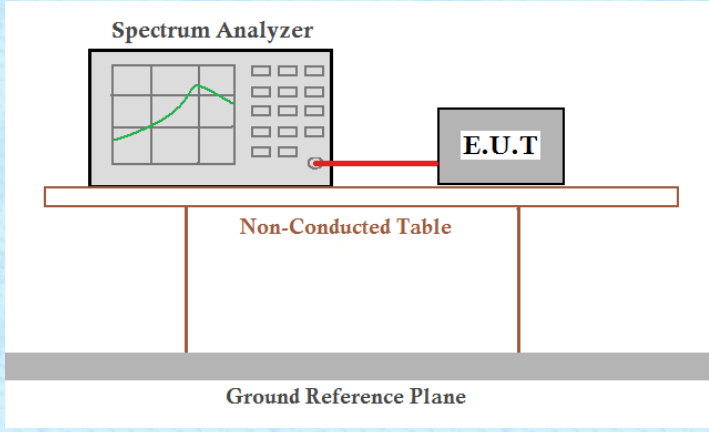


| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 1030.000 | 38.21 | 24.46 | 2.01 | 35.73 | 28.95 | 74.00 | -45.05 | Peak |
| 1960.000 | 36.00 | 26.04 | 2.53 | 36.48 | 28.09 | 74.00 | -45.91 | Peak |
| 2675.000 | 35.78 | 27.96 | 3.15 | 37.07 | 29.82 | 74.00 | -44.18 | Peak |
| 3045.000 | 43.93 | 28.40 | 3.45 | 37.31 | 38.47 | 74.00 | -35.53 | Peak |
| 3530.000 | 35.43 | 28.49 | 3.77 | 37.36 | 30.33 | 74.00 | -43.67 | Peak |
| 4410.000 | 32.03 | 30.54 | 4.35 | 37.57 | 29.35 | 74.00 | -44.65 | Peak |

Remarks:

Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

7.3 Occupy Bandwidth

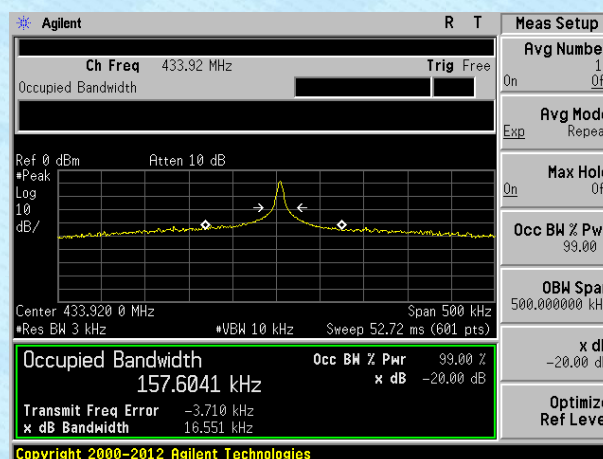
| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.231 (c) |
| Test Method: | ANSI C63.10:2013 |
| Limit: | The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900MHz. For devices operating above 900 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 setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Measurement Data

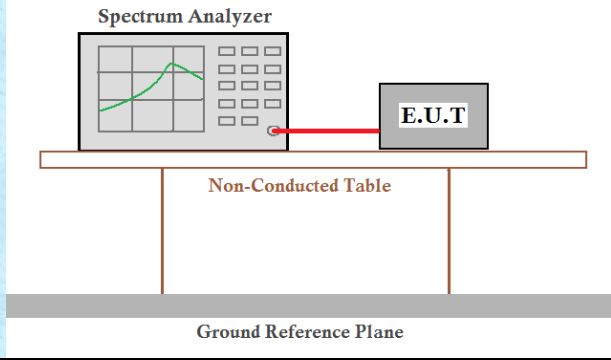
| Test Frequency (MHz) | 20dB bandwidth (kHz) | 99% bandwidth(kHz) | Limit (MHz) | Result |
|----------------------|----------------------|--------------------|-------------|--------|
| 433.92 | 16.551 | 157.6041 | 1.0848 | Pass |

Note: Limit= Fundamental frequency×0.25%

Test plot as follows:



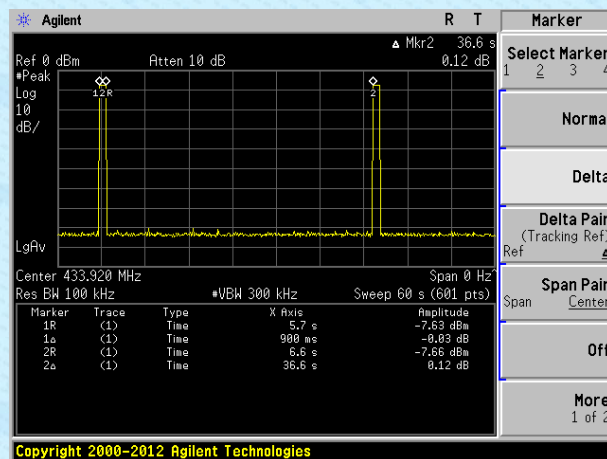
7.4 Dwell time

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.231 (e) |
| Test Method: | ANSI C63.10:2013 |
| Receiver setup: | RBW=100kHz, VBW=300kHz, span=0Hz, detector: Peak |
| Limit: | Not more than 1 seconds |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

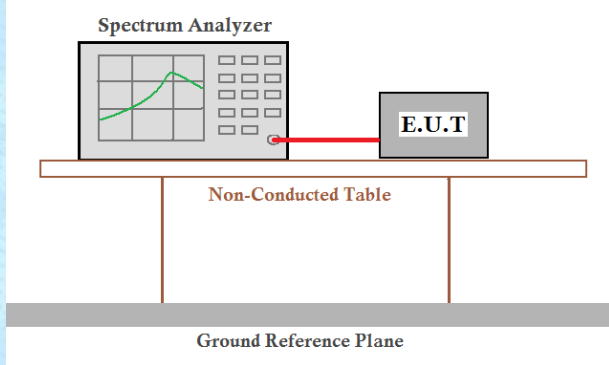
Measurement data:

| Test Frequency (MHz) | Duration of each TX (second) | Limit (second) | Result |
|----------------------|------------------------------|----------------|--------|
| 433.92 | 0.9 | <1.0 | Pass |

Test plot as follows:



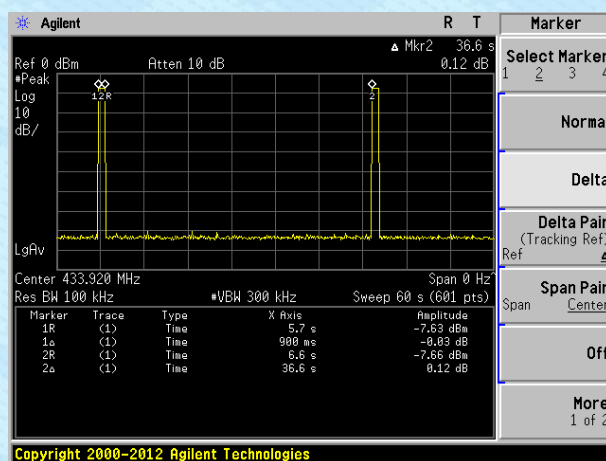
7.5 Silent period

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.231 (e) |
| Test Method: | ANSI C63.10:2013 |
| Receiver setup: | RBW=100kHz, VBW=300kHz, span=0Hz, detector: Peak |
| Limit: | at least 30 times the duration of the transmission or more than 10 seconds |
| Test Procedure: | <ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Single scan the transmit, and read the transmission time. |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

Measurement data:

| Test Frequency (MHz) | Silent period (second) | Limit (second) | Result |
|----------------------|------------------------|----------------|--------|
| 433.92 | 36.6 | >10 | Pass |

Test plot as follows:



8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----