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Report No.: SHEM160800572502

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1 Cover Page

RF REPORT

| Application No.: | SHEM1608005725CR | | |
|---|---|--|--|
| Applicant: | Jiaxing SET Electronic Technology Co.,Ltd | | |
| FCC ID: | 2AKAESET-002 | | |
| Equipment Under Test (I NOTE: The following sam | EUT): ple(s) submitted was/were identified on behalf of the client as | | |
| Product Name: | Wireless Driveway Alarm | | |
| Model No.: | SET002-PIR Transmitter | | |
| Standards: | FCC PART 15 Subpart C: 2015 | | |
| Date of Receipt: | 2016-08-31 | | |
| Date of Test: | 2016-08-31 to 2016-10-25 | | |
| Date of Issue: | 2016-10-26 | | |
| Test Result: | PASS * | | |

In the configuration tested, the EUT detailed in this report complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

| Revision Record | | | | | |
|--------------------------------------|---|------------|---|----------|--|
| Version Chapter Date Modifier Remark | | | | | |
| 00 | / | 2016-10-26 | / | Original | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------|-------------|
| Engineer | Eddy Zong | Eddy Zong |
| | Print Name | |
| Clerk | Vincent Zhu | Vincent Zhu |
| | Print Name | |
| Reviewer | Parlam Zhan | Parlam Zhan |
| | Print Name | |



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3 Test Summary

| Test Item | FCC Requirement | Test method | Result |
|-----------------------------------|--------------------------|---|--------|
| Antenna Requirement | Part 15.203 | / | PASS |
| Conducted Emission | Part 15.207 | ANSI C63.10 (2013) Section 6.2 | N/A |
| Field Strength of the Fundamental | Part 15.231 (b) | ANSI C63.10 (2013) Section 6.4 | PASS |
| Radiated Spurious emissions | Part 15.209 15.231(b) | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | PASS |
| 20dB Bandwidth | Part 15.231 (c) | ANSI C63.10 (2013) Section 6.9.2 | PASS |
| 99% Occupied Bandwidth | | RSS-Gen Clause 4.6.1 | PASS |
| Dwell Time | Part 15.231 (a) | ANSI C63.10 (2013) Section 7.8.4 | PASS |

Remark: 1. This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.



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5 General Information

5.1 Client Information

| Applicant: | Jiaxing SET Electronic Technology Co.,Ltd | |
|---|--|--|
| Address of Applicant: 2/F Building B, No.1879 Honggao Road, 314000, Jiaxing, Zhejiang, | | |
| Manufacturer: | Jiaxing SET Electronic Technology Co.,Ltd | |
| Address of Manufacturer: 2/F Building B, No.1879 Honggao Road, 314000, Jiaxing, Zhejian | | |
| Factory: | Jiaxing SET Electronic Technology Co.,Ltd | |
| Address of Factory: | 2/F Building B, No.1879 Honggao Road, 314000, Jiaxing, Zhejiang, China | |

5.2 General Description of E.U.T.

| Product Name | Wireless Driveway Alarm | | |
|--|---|--|--|
| Model No: | SET002-PIR Transmitter | | |
| Product Description: Fixed Product with 433MHz wireless function | | | |
| Rated Input: | DC 9 V by Alkaline battery | | |
| riated input. | Supply the EUT with fully charged battery during the testing. | | |

5.3 Technical Specifications:

| Operation Frequency: | 433.92MHz |
|-----------------------|------------------|
| Modulation Technique: | ASK |
| Antenna Type | Integral antenna |

5.4 Description of Support Units

The EUT has been tested independently

5.5 Details of Test Mode

| Test Mode | Detail description of the test mode | |
|------------------|---|--|
| Engineering Mode | Keeps EUT working in continuous transmitting mode | |

5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.



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5.7 Test Facility

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

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC - Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.

5.8 Measurement Uncertainty

| No. | Parameter | Measurement Uncertainty |
|-----|-------------------------------|--|
| 1 | Radio Frequency | < ±1 x 10 ⁻⁵ |
| 2 | Total RF power, conducted | < ±1.5 dB |
| 3 | RF power density, conducted | < ±3 dB |
| 4 | Spurious emissions, conducted | < ±3 dB |
| 5 | All emissions, radiated | < ±6 dB (Below 1GHz) < ±6 dB (Above 1GHz) |
| 6 | Temperature | < ±1°C |
| 7 | Humidity | < ±5 % |
| 8 | DC and low frequency voltages | < ±3 % |



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6 Equipments Used during Test

| No. | Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
|-----|--------------------------------------|---------------|---------------|---------------|------------|---------------|
| 1 | Power Meter | R&S | NRP | SHEM057-1 | 2016-01-14 | 2017-01-13 |
| 2 | Power Meter Sensor | R&S | NRP-Z22 | SHEM136-1 | 2016-08-12 | 2017-08-11 |
| 3 | Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2016-01-14 | 2017-01-13 |
| 4 | EMI Receiver | R&S | ESU40 | SHEM051-1 | 2016-01-16 | 2017-01-15 |
| 5 | EMI Receiver | R&S | ESR7 | SHEM162-1 | 2016-01-14 | 2017-01-13 |
| 6 | LISN | SCHWARZBECK | NSLK8127 | SHEM061-1 | 2016-01-14 | 2017-01-13 |
| 7 | LISN | EMCO | 3816/2 | SHEM019-1 | 2016-01-14 | 2017-01-13 |
| 8 | Loop Antenna (9kHz to 30MHz) | R&S | FMZB1519 | SHEM135-1 | 2016-01-18 | 2017-01-17 |
| 9 | Broadband Antenna (25MHz to 2GHz) | SCHWARZBECK | VULB9168 | SHEM048-1 | 2016-01-16 | 2017-01-15 |
| 10 | Broadband Antenna (25MHz to 3GHz) | R&S | HL562 | SHEM010-1 | 2016-01-16 | 2017-01-15 |
| 11 | Horn Antenna (1GHz to 18GHz) | R&S | HF906 | SHEM009-1 | 2016-01-16 | 2017-01-15 |
| 12 | Horn Antenna (1GHz to 18GHz) | SCHWARZBECK | BBHA9120D | SHEM050-1 | 2016-01-16 | 2017-01-15 |
| 13 | Horn Antenna (14GHz to 40GHz) | SCHWARZBECK | BBHA 9170 | SHEM049-1 | 2016-01-16 | 2017-01-15 |
| 14 | Pre-amplifier (9KHz – 2GHz) | TESEQ | LNA6900 | SHEM074-1 | 2016-01-14 | 2017-01-13 |
| 15 | Pre-amplifier (1GHz – 26.5GHz) | SCHWARZBECK | F0118-G40-BZ4 | SHEM049-2 | 2016-01-14 | 2017-01-13 |
| 16 | Pre-amplifie (14GHz – 40GHz) | SCHWARZBECK | F1840-G35-BZ3 | SHEM050-2 | 2016-01-14 | 2017-01-13 |
| 17 | Low Pass Filter | Mini-Circuits | VLF-2500 | SHEM114-1 | | |
| 18 | High Pass Filter | LORCH | 5BRX-2400 | SHEM155-1 | / | / |
| 19 | High-low Temperature Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2016-08-15 | 2017-08-14 |
| 20 | AC Power Stabilizer | WOCEN | 6100 | SHEM045-1 | 2016-01-14 | 2017-01-13 |
| 21 | DC Power Supply | QJE | QJ30003SII | SHEM046-1 | 2016-01-14 | 2017-01-13 |
| 22 | Signal Generator (Interferer) | R&S | SMR40 | SHEM058-1 | 2016-08-12 | 2017-08-11 |
| 23 | Signal Generator (Blocker) | R&S | SMJ100A | SHEM141-1 | 2016-01-14 | 2017-01-13 |
| 24 | Splitter | ANRITSU CORP | MA1612A | SHEM159-1 | / | / |
| 25 | Coupler | Mini-Circuits | 803-S-1 | SHEM113-1 | / | / |



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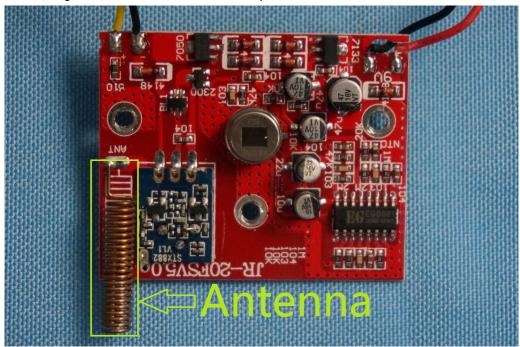
7 Test results and Measurement Data

7.1 Antenna Requirement

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.

The antenna is integrated and no consideration of replacement.





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7.2 Conducted Emissions

Frequency Range: 150 kg

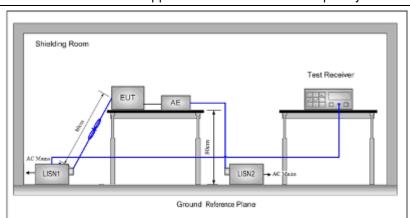
150 KHz to 30 MHz

Limit:

| Frequency range | Class B Limits: dB (µV) | | |
|-----------------|-------------------------|----------|--|
| MHz | Quasi-peak | Average | |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 | |
| 0.50 to 5 | 56 | 46 | |
| 5 to 30 | 60 | 50 | |

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.



Test Setup:

Test Procedure:

- a The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- b The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- c The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- d The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Test Results: N/A

Measurement Data:

This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.

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Detector

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VBW

Remark

Peak Value

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RBW

7.3 Spurious Emissions

Test frequency range: 9KHz - 5GHz

Test Site: Measurement Distance: 3m

Frequency

433.09 - 434.61MHz

Receiver Setup:

1KHz 0.009MHz-0.015MHz Quasi-peak 200Hz Quasi-peak 0.015MHz-30MHz Quasi-peak 9kHz 30KHz Quasi-peak 30MHz-1GHz Quasi-peak 120 kHz 300KHz Quasi-peak Peak 1MHz 3MHz Peak Above 1GHz 10Hz Peak 1MHz Average Field strength Limit Measurement Remark Frequency distance (m) (microvolt/meter) (dBuV/m) 0.009MHz-0.490MHz 2400/F(kHz) Quasi-peak 300 0.490MHz-1.705MHz 24000/F(kHz) Quasi-peak 30 1.705MHz-30MHz Quasi-peak 30 30 _ 30MHz-88MHz 40.0 3 100 Quasi-peak 88MHz-216MHz 150 3 43.5 Quasi-peak 216MHz-960MHz 200 46.0 Quasi-peak 3 960MHz-1GHz 500 54.0 Quasi-peak 3 3 54.0 Average Above 1GHz 500 74.0 Peak 3 Limit (dBuV/m @3m) Frequency Remark 80.83 Average Value

Limit:

(Spurious Emissions)

Limit: (Field strength of the fundamental signal)

Test Procedure:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

100.83

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, only the test worst case mode is recorded in the report.



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Test Setup:

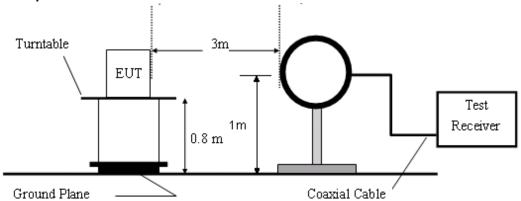


Figure 1. 30MHz to 1GHz radiated emissions test configuration

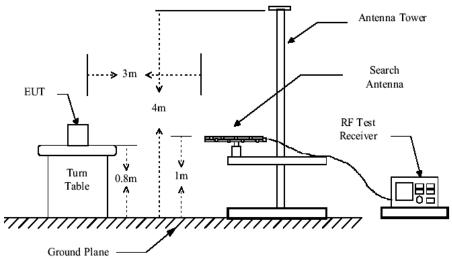


Figure 2. 30MHz to 1GHz radiated emissions test configuration

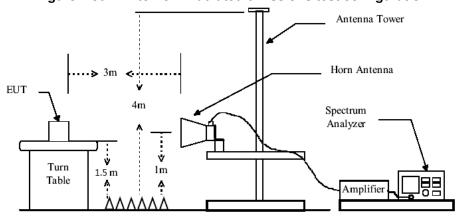


Figure 3. Above 1GHz radiated emissions test configuration

Test Results: Pass



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7.3.1 Field Strength of the Fundamental Signal

| Test channel | Freq. (MHz) | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|--------------|----------------|--------------------------|------------------------|--------------------|----------|--------------|
| Channal 1 | 433.92 | 78.47 | 80.83 | -2.36 | Peak | VERTICAL |
| Channel 1 | | 77.53 | 80.83 | -3.3 | Peak | HORIZONTAL |

Remark: If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



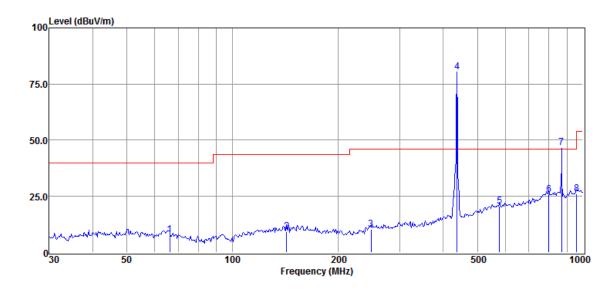
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7.3.2 Spurious Emissions

Below 1GHz

Vertical:



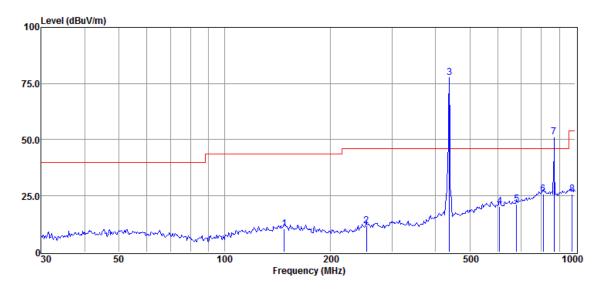
| Item | Freq. | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector |
|--------|--------|---------------|-------------------|------------------|---------------|-----------------|---------------|---------------|----------|
| (Mark) | (MHz) | (dBµV) | (dB/m) | (dB) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 1 | 66.27 | 37.88 | 12.40 | 43.70 | 1.24 | 7.82 | 40.00 | -32.18 | QP |
| 2 | 142.82 | 38.90 | 12.45 | 43.50 | 1.46 | 9.31 | 43.50 | -34.19 | QP |
| 3 | 248.55 | 39.81 | 11.93 | 43.36 | 2.05 | 10.43 | 46.00 | -35.57 | QP |
| 4 | 437.12 | 102.67 | 16.27 | 43.21 | 2.74 | 78.47 | Fund | lamental si | gnal |
| 5 | 578.67 | 40.19 | 20.24 | 43.14 | 3.19 | 20.48 | 46.00 | -25.52 | QP |
| 6 | 798.98 | 41.62 | 23.50 | 43.06 | 3.85 | 25.91 | 46.00 | -20.09 | QP |
| 7 | 869.13 | 62.81 | 23.16 | 43.04 | 3.97 | 46.90 | 80.80 | -33.90 | Peak |
| 8 | 869.13 | 56.15 | 23.16 | 43.04 | 3.97 | 40.24 | 60.80 | -20.56 | QP |
| 9 | 958.79 | 40.45 | 24.50 | 43.01 | 4.21 | 26.15 | 46.00 | -19.85 | QP |



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Horizontal:



| Item | Freq. | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector |
|--------|--------|---------------|-------------------|------------------|---------------|-----------------|---------------|---------------|----------|
| (Mark) | (MHz) | (dBµV) | (dB/m) | (dB) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 1 | 147.92 | 39.66 | 12.70 | 43.49 | 1.49 | 10.36 | 43.50 | -33.14 | QP |
| 2 | 253.84 | 40.77 | 12.14 | 43.35 | 2.04 | 11.60 | 46.00 | -34.40 | QP |
| 3 | 437.12 | 101.73 | 16.27 | 43.21 | 2.74 | 77.53 | Func | lamental si | gnal |
| 4 | 607.79 | 40.04 | 20.19 | 43.13 | 3.29 | 20.39 | 46.00 | -25.61 | QP |
| 5 | 679.96 | 41.18 | 19.70 | 43.10 | 3.57 | 21.35 | 46.00 | -24.65 | QP |
| 6 | 810.27 | 41.47 | 23.61 | 43.05 | 3.87 | 25.90 | 46.00 | -20.10 | QP |
| 7 | 869.13 | 67.09 | 23.16 | 43.04 | 3.97 | 51.18 | 80.80 | -29.62 | Peak |
| 8 | 869.13 | 60.10 | 23.16 | 43.04 | 3.97 | 51.18 | 60.80 | -16.61 | QP |
| 9 | 979.18 | 40.82 | 23.80 | 43.01 | 4.24 | 25.85 | 54.00 | -28.15 | QP |



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Above 1GHz

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | polarization |
|------|--------------------|-------------------|-------------|-------------------|-------------------|--------------------|----------|--------------|
| 1 | 1728.5 | 68.22 | -5.05 | 63.17 | 82 | -18.83 | peak | Horizontal |
| 2 | 1728.5 | 56.73 | -5.05 | 51.68 | 62 | -10.32 | AVG | Horizontal |
| 3 | 3902.25 | 56.48 | 2.91 | 59.39 | 82 | -22.61 | peak | Horizontal |
| 4 | 3902.25 | 50.16 | 2.91 | 53.07 | 62 | -8.93 | AVG | Horizontal |
| 5 | 4337 | 61.6 | 3.45 | 65.05 | 82 | -16.95 | peak | Horizontal |
| 6 | 4337 | 54.6 | 3.45 | 58.05 | 62 | -3.95 | AVG | Horizontal |
| 1 | 1728.5 | 66.72 | -5.05 | 61.67 | 82 | -20.33 | peak | Vertical |
| 2 | 1728.5 | 55.53 | -5.05 | 50.48 | 62 | -11.52 | AVG | Vertical |
| 3 | 3902.25 | 60.41 | 2.91 | 63.32 | 82 | -18.68 | peak | Vertical |
| 4 | 3902.25 | 49.34 | 2.91 | 52.25 | 62 | -9.75 | AVG | Vertical |
| 5 | 4337 | 65.65 | 3.45 | 69.1 | 82 | -12.9 | peak | Vertical |
| 6 | 4337 | 54.12 | 3.45 | 57.57 | 62 | -4.43 | AVG | Vertical |

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading Level + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) If Peak Result comply with AV limit, AV Result is deemed to comply with QP limit
- 3) No any other emissions level which are attenuated less than 20dB below the limit. According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

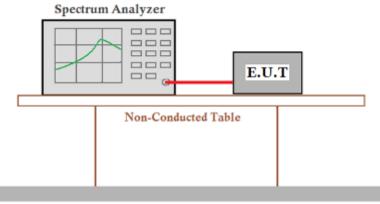


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7.4 20dB Bandwidth

Test Setup:



Ground Reference Plane

Limit: The bandwidth of the emission shall be no wider than 0.25% of the center frequency

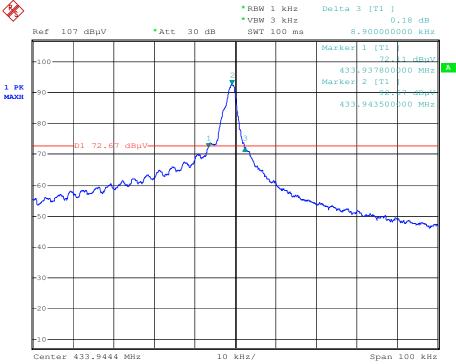
for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test Results: Pass

Measurement Data:

| Frequency(MHz) | 20dB bandwidth (kHz) | Limit (kHz) | Results |
|----------------|----------------------|-------------|---------|
| 433.92 | 8.90 | 1084.8 | Pass |

Test plot as follows:



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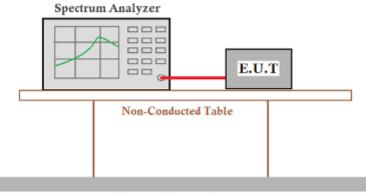


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7.5 Dwell Time

Test Setup:



Ground Reference Plane

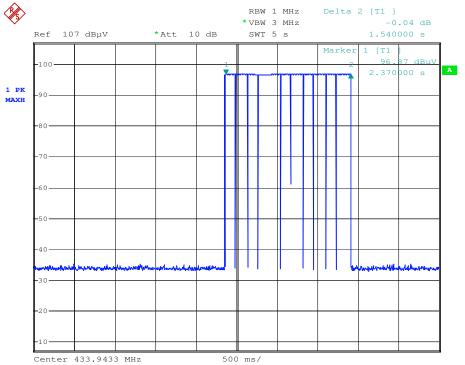
Limit: 15.231 (a): Not more than 5 seconds

Test Results: Pass

Measurement Data:

| Test item | Limit (s) | Results | | |
|-----------------------|-----------|---------|--|--|
| Transmission Duration | ≤5s | Pass | | |

Test plot as follows:





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8 Test Setup Photographs

Refer to the < SET002-PIR Transmitter _Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < SET002-PIR Transmitter _External Photos > & < SET002-PIR Transmitter _Internal Photos >.

-- End of the Report--