

FCC Part 15C Measurement and Test Report

For

Shenzhen Fitcare Electronics Co.,Ltd

6th floor(south), Building A, Dingxin Science Park, Honglang North 2nd

Road, Bao'an, Shenzhen, China

FCC ID: 2ACN7-HRM826

FCC Rule(s): FCC Part 15.249

Product Description: Heart Rate Monitor

Tested Model: HRM826

Report No.: <u>WTX19X01007033W-2</u>

Sample Receipt Date: 2019-01-30

Tested Date: <u>2019-01-31 to 2019-02-20</u>

Issued Date: <u>2019-02-20</u>

Tested By: Ray Yang/ Engineer

Reviewed By: Silin Chen / EMC Manager

Approved & Authorized By: <u>Jandy So / PSQ Manager</u>

Prepared By:

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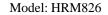
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.



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1. GENERAL INFORMATION

${\bf 1.1\ Product\ Description\ for\ Equipment\ Under\ Test\ (EUT)}$

Client Information

Applicant: Shenzhen Fitcare Electronics Co.,Ltd

Address of applicant: 6th floor(south), Building A, Dingxin Science Park, Honglang

North 2nd Road, Bao'an, Shenzhen, China

Manufacturer: Shenzhen Fitcare Electronics Co.,Ltd

Address of manufacturer: 6th floor(south), Building A, Dingxin Science Park, Honglang

North 2nd Road, Bao'an, Shenzhen, China

| General Description of EUT | |
|--------------------------------------|--|
| Product Name: | Heart Rate Monitor |
| Trade Name: | / |
| Model No.: | HRM826 |
| Adding Model(s): | / |
| Rated Voltage: | DC 3.7V Battery |
| Battery Capacity: | 90 mAh |
| Power Adapter Model: | / |
| | • |
| Note: The test data is gathered from | m a production sample, provided by the manufacturer. |

| Technical Characteristics of EUT | | |
|-----------------------------------|-------------|--|
| Frequency Range: | 2457MHz | |
| Max. Field Strength: | 87.40dBuV/m | |
| Modulation: | GFSK | |
| Antenna Type: | PCB Antenna | |
| Antenna Gain: | 0.5dBi | |
| Lowest Internal Frequency of EUT: | 16MHz | |

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1.2 Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.249:</u> Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013,

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

FCC - Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

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1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode List | | | |
|----------------|-------------|---------|--|
| Test Mode | Description | Remark | |
| TM1 | Low Channel | 2457MHz | |

| Test Conditions | | | | |
|-------------------|-----------|--|--|--|
| Temperature: | 22~25 °C | | | |
| Relative humidity | 50~55 %. | | | |
| ATM Pressure: | 1019 mbar | | | |

| EUT Cable List and Details | 1 | | |
|-----------------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| / | / | / | / |

| Accessories Cable List and Details | | | |
|------------------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| USB Charging cable | 0.7 | Unshielded | Without Core |

| Auxiliary Equipment List and Details | | | |
|--------------------------------------|--------------|--------------|---------------|
| Description | Manufacturer | Model | Serial Number |
| iPhone6 Plus | Apple | MGAJ2ZP/A | FK1PQ4JBG5QW |
| Adapter | Dell lnc. | PSAI10R-050Q | / |

1.6 Measurement Uncertainty

| Measurement uncertainty | | | |
|--------------------------------|------------|---|--|
| Parameter | Conditions | Uncertainty | |
| RF Output Power | Conducted | ±0.42dB | |
| Occupied Bandwidth | Conducted | ±1.5% | |
| Conducted Spurious Emission | Conducted | ±2.17dB | |
| | Conducted | 9-150kHz ±3.74dB | |
| Conducted Emissions | Conducted | $0.15-30 \text{MHz} \pm 3.34 \text{dB}$ | |
| | | $30-200 MHz \pm 4.52 dB$ | |
| Transmitter Spurious Emissions | Radiated | 0.2-1GHz ±5.56dB | |
| | Kaulateu | 1-6GHz ±3.84dB | |
| | | 6-18GHz ±3.92dB | |

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1.7 Test Equipment List and Details

| No. | Description | Manufacturer | Model | Serial No. | Cal Date | Due Date |
|------------|----------------------|------------------------|-----------------------|-------------|------------|-----------------|
| CEMT 1072 | Spectrum | A =:1==+ | E4407D | M3741440400 | 2019 05 22 | 2010 05 21 |
| SEMT-1072 | Analyzer | Agilent | E4407B | MY41440400 | 2018-05-22 | 2019-05-21 |
| SEMT-1031 | Spectrum | Rohde & | FSP30 | 836079/035 | 2018-05-22 | 2010 05 21 |
| SEM11-1031 | Analyzer | Schwarz | rarau | 830079/033 | 2016-03-22 | 2019-05-21 |
| SEMT-1007 | EMI Test | Rohde & | ESVB | 825471/005 | 2018-05-22 | 2019-05-21 |
| SEW11-100/ | Receiver | Schwarz | ESVD | 823471/003 | 2018-03-22 | 2019-03-21 |
| SEMT-1008 | Amplifier | Agilent | 8447F | 3113A06717 | 2018-05-22 | 2019-05-21 |
| SEMT-1043 | Amplifier | C&D | PAP-1G18 | 2002 | 2018-05-22 | 2019-05-21 |
| SEMT-1011 | Broadband Antenna | Schwarz beck | VULB9163 | 9163-333 | 2017-06-08 | 2020-06-07 |
| SEMT-1042 | Horn Antenna | ETS | 3117 | 00086197 | 2017-06-08 | 2020-06-07 |
| SEMT-1121 | Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170582 | 2017-06-08 | 2020-06-07 |
| SEMT-1069 | Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2017-06-08 | 2020-06-07 |
| CEMT 1001 | EMI Test | Rohde & | ECDI | 101711 | 2019 05 22 | 2010 05 21 |
| SEMT-1001 | Receiver | Schwarz | ESPI | 101611 | 2018-05-22 | 2019-05-21 |
| SEMT-1003 | L.I.S.N | Schwarz beck | NSLK8126 | 8126-224 | 2018-05-22 | 2019-05-21 |
| SEMT-1002 | Pulse Limiter | Rohde & | ESH3-Z2 | 100911 | 2018-05-22 | 2019-05-21 |
| | | Schwarz | | | | |
| SEMT-1168 | Pre-amplifier | Direction Systems Inc. | PAP-0126 | 14141-12838 | 2018-05-22 | 2019-05-21 |
| SEMT-1169 | Pre-amplifier | Direction | PAP-2640 | 14145-14153 | 2018-05-22 | 2019-05-21 |
| 52111 1109 | | Systems Inc. | 7711 2010 | 14145-14155 | 2010 03 22 | 2017-03-21 |
| SEMT-1163 | Spectrum | Rohde & | FSP40 | 100612 | 2018-05-22 | 2019-05-21 |
| SENTI TIOS | Analyzer | Schwarz | 15110 | 100012 | 2010 03 22 | 2017 03 21 |
| SEMT-1170 | DRG Horn | A.H. | SAS-574 | 571 | 2018-03-19 | 2021-03-18 |
| SENT 1170 | Antenna | SYSTEMS | 5715 371 | 371 | 2010 05 17 | 2021 03 10 |
| SEMT-1166 | Power Limiter | Agilent | N9356B | MY45450376 | 2018-05-22 | 2019-05-21 |
| SEMT-1048 | RF Limiter | ATTEN | AT-BSF-2400~2500 | / | 2018-05-22 | 2019-05-21 |
| SEMT-1076 | RF Switcher | Top Precision | RCS03-A2 | / | 2018-05-22 | 2019-05-21 |
| SEMT-C001 | Cable | Zheng DI | LL142-07-07-10M(A) | / | 2018-03-19 | 2019-03-18 |
| SEMT-C002 | Cable | Zheng DI | ZT40-2.92J-2.92J-6M | / | 2018-03-19 | 2019-03-18 |
| SEMT-C003 | Cable | Zheng DI | ZT40-2.92J-2.92J-2.5M | / | 2018-03-19 | 2019-03-18 |
| SEMT-C004 | Cable | Zheng DI | 2M0RFC | / | 2018-03-19 | 2019-03-18 |
| SEMT-C005 | Cable | Zheng DI | 1M0RFC | / | 2018-03-19 | 2019-03-18 |
| SEMT-C006 | Cable | Zheng DI | 1M0RFC | / | 2018-03-19 | 2019-03-18 |



2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item | Result |
|----------------|------------------------------|-----------|
| § 15.203 | Antenna Requirement | Compliant |
| §15.205 | Restricted Band of Operation | Compliant |
| § 15.207(a) | Conducted Emission | Compliant |
| § 15.209(a)(f) | Radiated Spurious Emissions | Compliant |
| §15.249(a) | Field Strength of Emissions | Compliant |
| §15.249(d) | Out of Band Emission | Compliant |
| §15.215 (c) | Emission Bandwidth | Compliant |



3. Antenna Requirements

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 PCB antenna, fulfill the requirement of this section.

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4. Radiated Emissions

4.1 Standard Applicable

According to \$15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental Frequency | Field strength of fundamental (milli-volts/meter) | Field strength of Harmonics (micro-volts/meter) | |
|-----------------------|---|---|--|
| 902-928 MHz | 50 | 500 | |
| | | | |
| 2400-2483.5 MHz | 50 | 500 | |
| 5725-5875 MHz | 50 | 500 | |
| 24.0-24.25 GHz | 250 | 2500 | |

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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.

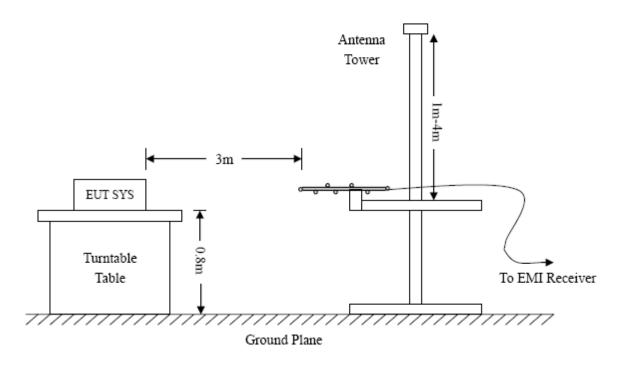
4.2 Test Procedure

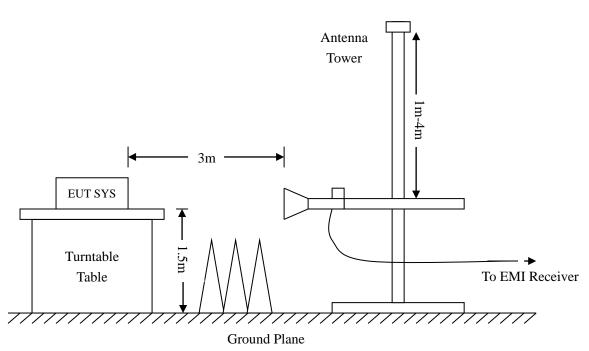
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

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Frequency:9kHz-30MHz

RBW=10KHz,

VBW = 30KHz

Sweep time= Auto

Trace = max hold

 $Detector\ function = peak$

Frequency:30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency : Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

 $Trace = max \ hold$

Detector function = peak, AV



4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss - Ampl. Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – FCC Part 15C Limit

4.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

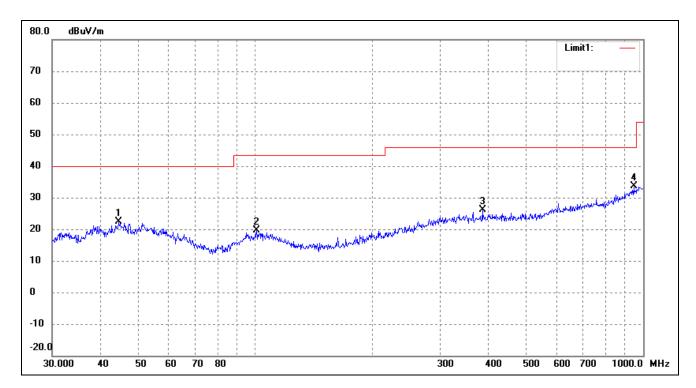
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> Spurious Emissions Below 1GHz

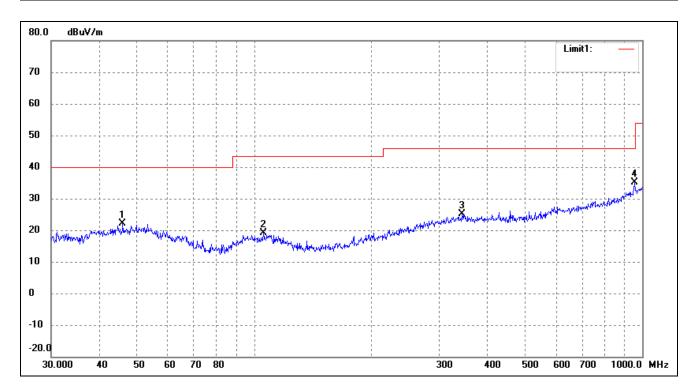
| Test Channel | / | Polarity: | Horizontal |
|--------------|---|-----------|------------|
|--------------|---|-----------|------------|



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 44.4308 | 35.48 | -13.01 | 22.47 | 40.00 | -17.53 | 211 | 100 | peak |
| 2 | 100.9339 | 34.01 | -14.38 | 19.63 | 43.50 | -23.87 | 94 | 100 | peak |
| 3 | 385.2805 | 32.77 | -6.70 | 26.07 | 46.00 | -19.93 | 217 | 100 | peak |
| 4 | 945.4399 | 31.05 | 2.61 | 33.66 | 46.00 | -12.34 | 108 | 100 | peak |







| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | () | (cm) | |
| 1 | 45.8553 | 35.02 | -12.92 | 22.10 | 40.00 | -17.90 | 277 | 100 | peak |
| 2 | 105.6415 | 33.10 | -14.03 | 19.07 | 43.50 | -24.43 | 90 | 100 | peak |
| 3 | 343.1800 | 31.70 | -6.51 | 25.19 | 46.00 | -20.81 | 98 | 100 | peak |
| 4 | 955.4381 | 32.21 | 2.99 | 35.20 | 46.00 | -10.80 | 96 | 100 | peak |



> Spurious Emissions Above 1GHz

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector | | | | |
|-----------|----------|---------|----------|----------|--------|-------|----------|--|--|--|--|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | | | | | |
| | 2457MHz | | | | | | | | | | |
| 4914.00 | 49.12 | -3.59 | 45.53 | 74.00 | -28.47 | Н | PK | | | | |
| 4914.00 | 42.54 | -3.59 | 38.95 | 54.00 | -15.05 | Н | AV | | | | |
| 7371.00 | 46.14 | -0.52 | 45.62 | 74.00 | -28.38 | Н | PK | | | | |
| 7371.00 | 40.53 | -0.52 | 40.01 | 54.00 | -13.99 | Н | AV | | | | |
| 4914.00 | 48.80 | -3.59 | 45.21 | 74.00 | -28.79 | V | PK | | | | |
| 4914.00 | 43.59 | -3.59 | 40.00 | 54.00 | -14.00 | V | AV | | | | |
| 7371.00 | 46.77 | -0.52 | 46.25 | 74.00 | -27.75 | V | PK | | | | |
| 7371.00 | 40.71 | -0.52 | 40.19 | 54.00 | -13.81 | V | AV | | | | |

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3^{th} 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.

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5. Out of Band Emissions

5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

5.3 Summary of Test Results/Plots

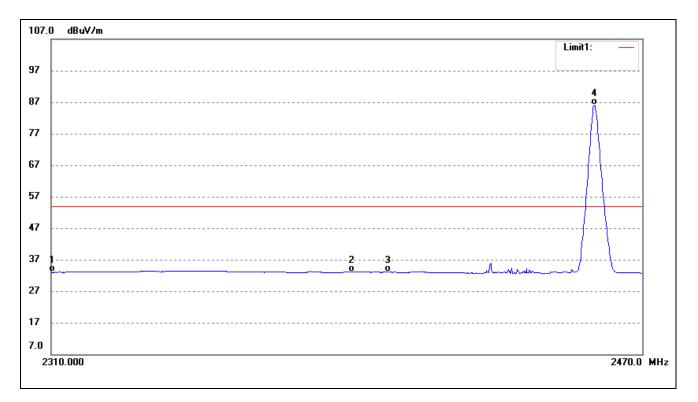
| T4 J- | Frequency | Limit | D14 |
|-----------|-----------|------------|--------|
| Test mode | MHz | dBuV / dBc | Result |
| | 2310.00 | <54 dBuV | Pass |
| Lowest | 2390.00 | <54 dBuV | Pass |
| | 2400.00 | <54 dBuV | Pass |
| Llighoot | 2483.50 | <54 dBuV | Pass |
| Highest | 2500.00 | <54 dBuV | Pass |

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

Please refer to the test plots as below.



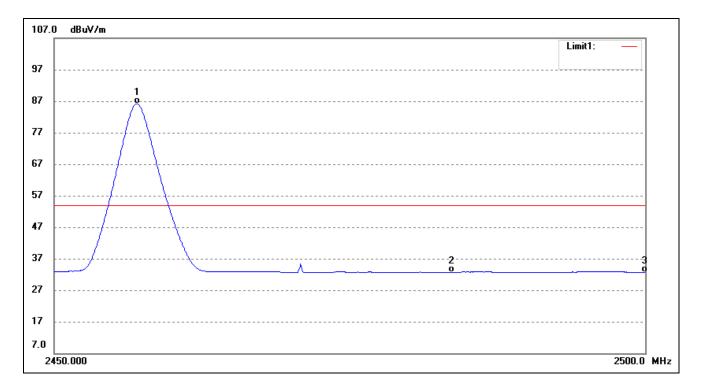




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|----------|---------|----------|----------|--------|---------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 40.79 | -7.78 | 33.01 | 54.00 | -20.99 | Ave Detector |
| | 2310.000 | 52.60 | -7.78 | 44.82 | 74.00 | -29.18 | Peak Detector |
| 2 | 2390.000 | 40.47 | -7.32 | 33.15 | 54.00 | -20.85 | Ave Detector |
| | 2390.000 | 53.32 | -7.32 | 46.00 | 74.00 | -28.00 | Peak Detector |
| 3 | 2400.000 | 40.29 | -7.26 | 33.03 | 54.00 | -20.97 | Ave Detector |
| | 2400.000 | 52.13 | -7.26 | 44.87 | 74.00 | -29.13 | Peak Detector |
| 4 | 2456.637 | 93.10 | -6.92 | 86.18 | 94.00 | -7.82 | Ave Detector |
| | 2456.637 | 94.32 | -6.92 | 87.40 | 114.00 | -26.60 | Peak Detector |







| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|----------|---------|----------|----------|--------|---------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2456.939 | 93.14 | -6.92 | 86.18 | 94.00 | -7.82 | Ave Detector |
| | 2456.741 | 93.91 | -6.92 | 87.40 | 114.00 | -26.60 | Peak Detector |
| 2 | 2483.500 | 39.43 | -6.77 | 32.66 | 54.00 | -21.34 | Ave Detector |
| | 2483.500 | 50.97 | -6.77 | 44.20 | 74.00 | -29.80 | Peak Detector |
| 3 | 2500.000 | 39.32 | -6.67 | 32.65 | 54.00 | -21.35 | Ave Detector |
| | 2500.000 | 50.95 | -6.67 | 44.28 | 74.00 | -29.72 | Peak Detector |



6. Emission Bandwidth

6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §\$15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

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

Set span = 1MHz, centered on a transmitting channel

RBW ≥1% 20dB Bandwidth, VBW ≥RBW

Sweep = auto

Detector function = peak

Trace = max hold

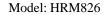
All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

6.3 Summary of Test Results/Plots

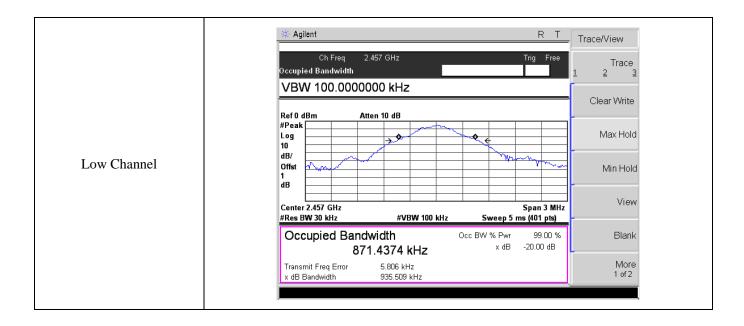
| Test Channel | 20dB Bandwidth(kHz) |
|--------------|---------------------|
| Low Channel | 935.509 |

Please refer to the following test plots

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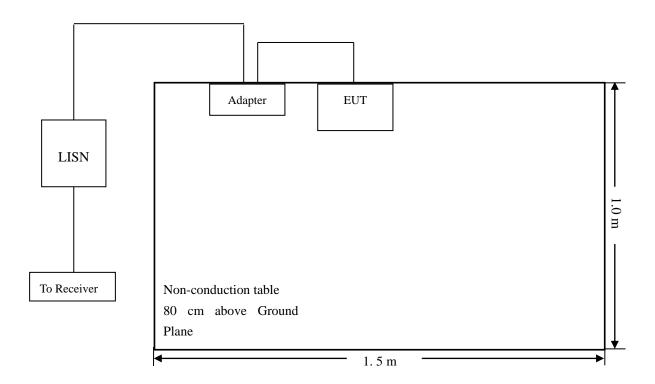
7. Conducted Emissions

7.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

7.2 Basic Test Setup Block Diagram



7.3 Test Receiver Setup

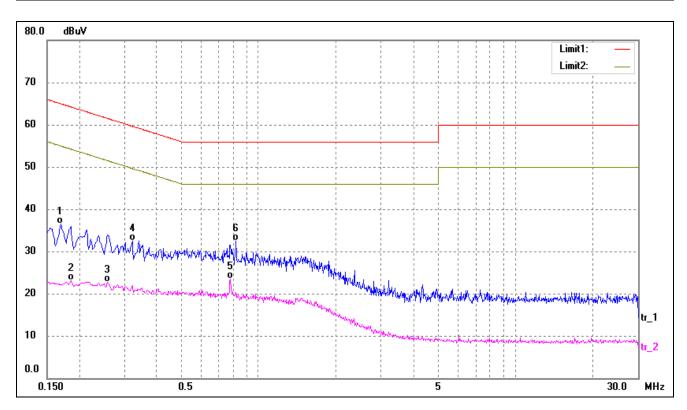
During the conducted emission test, the test receiver was set with the following configurations:

| Start Frequency | 150 kHz |
|------------------------------|---------|
| Stop Frequency | 30 MHz |
| Sweep Speed | Auto |
| IF Bandwidth | 10 kHz |
| Quasi-Peak Adapter Bandwidth | 9 kHz |
| Quasi-Peak Adapter Mode | Normal |

7.4 Summary of Test Results/Plots



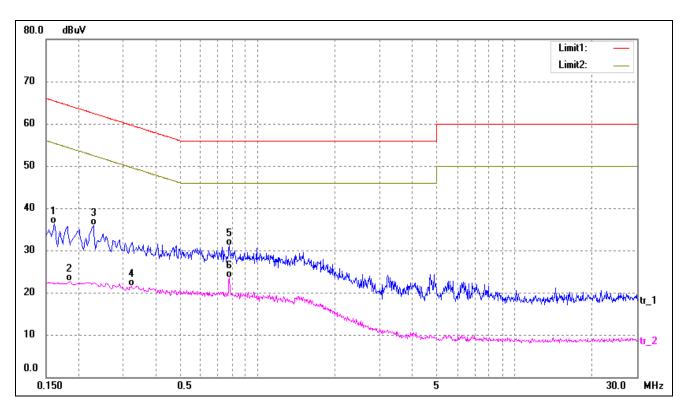




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1700 | 26.31 | 10.11 | 36.42 | 64.96 | -28.54 | QP |
| 2 | 0.1860 | 13.06 | 10.11 | 23.17 | 54.21 | -31.04 | AVG |
| 3 | 0.2580 | 12.51 | 10.16 | 22.67 | 51.50 | -28.83 | AVG |
| 4 | 0.3220 | 22.40 | 10.20 | 32.60 | 59.66 | -27.06 | QP |
| 5* | 0.7780 | 13.12 | 10.42 | 23.54 | 46.00 | -22.46 | AVG |
| 6 | 0.8140 | 22.07 | 10.43 | 32.50 | 56.00 | -23.50 | QP |







| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1620 | 26.24 | 10.10 | 36.34 | 65.36 | -29.02 | QP |
| 2 | 0.1860 | 12.61 | 10.11 | 22.72 | 54.21 | -31.49 | AVG |
| 3 | 0.2300 | 25.75 | 10.14 | 35.89 | 62.45 | -26.56 | QP |
| 4 | 0.3220 | 11.32 | 10.20 | 21.52 | 49.66 | -28.14 | AVG |
| 5 | 0.7780 | 20.65 | 10.42 | 31.07 | 56.00 | -24.93 | QP |
| 6* | 0.7780 | 13.04 | 10.42 | 23.46 | 46.00 | -22.54 | AVG |

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