

FCC Part 15C Measurement and Test Report

For

Hisense Electric Co., Ltd.

No. 218 Qianwanggang Road, Economy & Technology Dev.,

Qingdao, China

FCC ID: W9HPADP0005

FCC Rule(s): FCC Part 15C

Product Description: Sero 7 LE

Tested Model: <u>E2371</u>

Report No.: <u>STR140681671-2</u>

Tested Date: <u>2014-06-11 to 2014-08-18</u>

Issued Date: <u>2014-08-18</u>

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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

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Hisense Electric Co., Ltd.

Address of applicant: No.218 Qianwangang Road, Economy & Technology Dev.,

Qingdao, China

Manufacturer: ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY

LIMITED

Address of manufacturer: No.161, Xin Min Road, Tong Luo Wei Industrial Zone,

Jin Xia, Chang An Town, Dong Guan City, Guang Dong

Province, China

| General Description of EU | Г |
|---------------------------|--|
| Product Name: | Sero 7 LE |
| Trade Name: | Hisense |
| Model No.: | E2371 |
| Adding Model(s): | E2371XX (XX=A-Z) |
| Rated Voltage: | Battery DC 3.7V, Adapter DC 5V/1.5A charging |
| Power Adapter Model: | PS10C050K1500UU |
| | <u> </u> |

Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model E2371, but the circuit and the electronic construction do not change, declared by the manufacturer.

| Technical Characteristics of EUT | | | | |
|----------------------------------|-------------------------------------|--|--|--|
| Support Standards: | 802.11b, 802.11g, 802.11n | | | |
| Frequency Range: | 2412-2472MHz, 2422-2462MHz | | | |
| RF Output Power: | 16.97dBm (Conducted) | | | |
| Type of Modulation: | CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM | | | |
| Data Rate: | 1-11Mbps, 6-54Mbps, up to 150Mbps | | | |
| Quantity of Channels: | 13/9 | | | |
| Channel Separation: | 5MHz | | | |
| Type of Antenna: | Integral | | | |
| Antenna Gain: | 0dBi | | | |
| Lowest Internal Frequency | 32.768KHz | | | |

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1.2 Test Standards

The following report is prepared on behalf of the Hisense Electric Co., Ltd. in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result 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 C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 558074 D01 V03r02 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC - Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. 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 our files and the Registration is 934118.

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.

CNAS Registration No.: L4062

Shenzhen SEM. Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).



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 | 802.11b | 2412MHz, 2442MHz, 2472MHz | | |
| TM2 | 802.11g | 2412MHz, 2442MHz, 2472MHz | | |
| TM3 | 802.11n-HT20 | 2412MHz, 2442MHz, 2472MHz | | |
| TM4 | 802.11n-HT40 | 2422MHz, 2442MHz, 2462MHz | | |

| EUT Cable List and Details | | | | | | |
|---|-----|------------|--------------|--|--|--|
| Cable Description Length (m) Shielded/Unshielded With / Without Ferrite | | | | | | |
| USB Cable | 1.2 | Unshielded | Without Core | | | |

| Special Cable List and Details | | | | | | |
|---|-----|------------|--------------|--|--|--|
| Cable Description Length (m) Shielded/Unshielded With / Without Ferrite | | | | | | |
| Earphone Cable | 1.2 | Unshielded | Without Core | | | |

| Auxiliary Equipment List and Details | | | | | | |
|--|--------|-------|------------|--|--|--|
| Description Manufacturer Model Serial Number | | | | | | |
| Notebook | Lenovo | 20007 | EB12648265 | | | |

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2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item | Result |
|-----------------------------|--|-----------|
| § 2.1093 | RF Exposure | Compliant |
| § 15.203; § 15.247(b)(4)(i) | Antenna Requirement | Compliant |
| § 15.207(a) | Conducted Emission | Compliant |
| § 15.247(e) | Power Spectral Density Compli | |
| § 15.247(a)(2) | 6 dB Bandwidth Complia | |
| § 15.247(b)(3) | RF Output Power | Compliant |
| § 15.209(a) | Radiated Emission Complia | |
| § 15.247(d) | Band Edge (Out of Band Emissions) Complian | |

N/A: not applicable



3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.



4. Antenna Requirement

4.1 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.

4.2 Evaluation Information

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

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TEST Model: E2371

5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Equipment List and Details

| Description | Manufacturer | Model | Serial Number | Cal. Date | Due. Date |
|-------------------|--------------|-------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4402B | US41192821 | 2014-05-28 | 2015-05-27 |
| Attenuator | ATTEN | ATS100-4-20 | / | 2014-05-28 | 2015-05-27 |

5.3 Test Procedure

According to the KDB 558074 D01 V03r02, the test method of power spectral density as below:

3

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set analyzer center frequency to DTS channel center frequency.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW \geq 3 kHz.
- 5. Set the VBW \geq 3 x RBW.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.
- 11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.4 Environmental Conditions

| Temperature: | 26° C |
|--------------------|-----------|
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

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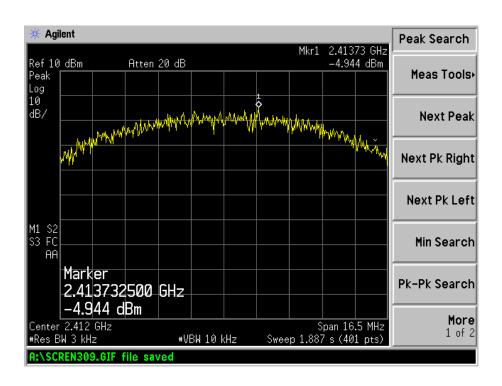
5.5 Summary of Test Results/Plots

| Test Mode | Test Channel MHz | Power Spectral Density dBm/3kHz | Limit dBm/3kHz |
|--------------|---------------------|------------------------------------|-------------------|
| | 2412 | -4.944 | 8 |
| 802.11b | 2442 | -3.605 | 8 |
| | 2472 | -3.029 | 8 |
| | 2412 | -13.40 | 8 |
| 802.11g | 2442 | -12.24 | 8 |
| | 2472 | -11.24 | 8 |
| | 2412 | -13.64 | 8 |
| 802.11n HT20 | 2442 | -11.71 | 8 |
| | 2472 | -11.40 | 8 |
| | 2422 | -15.25 | 8 |
| 802.11n HT40 | 2442 | -14.47 | 8 |
| | 2462 | -13.99 | 8 |

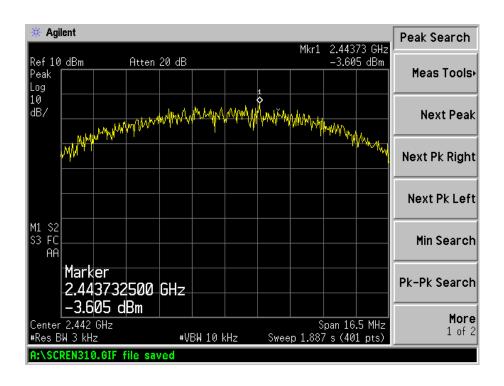
Please refer to the following test plots:



802.11b-Low Channel

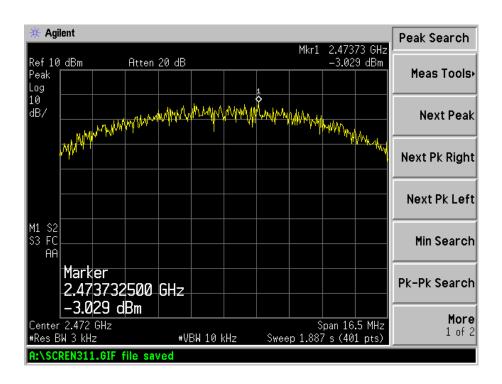


802.11b-Middle Channel

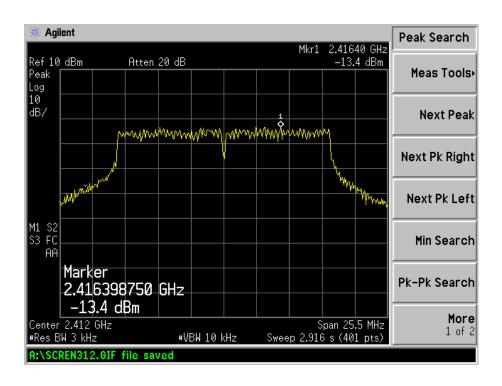




802.11b-High Channel

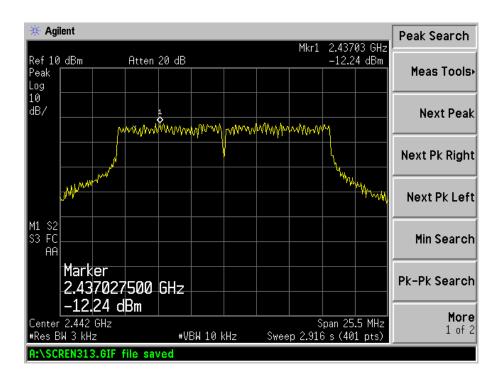


802.11g-Low Channel

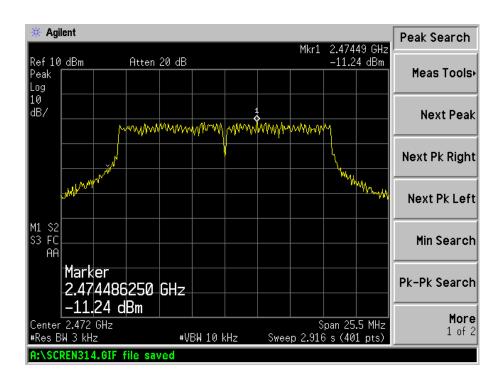




802.11g-Middle Channel

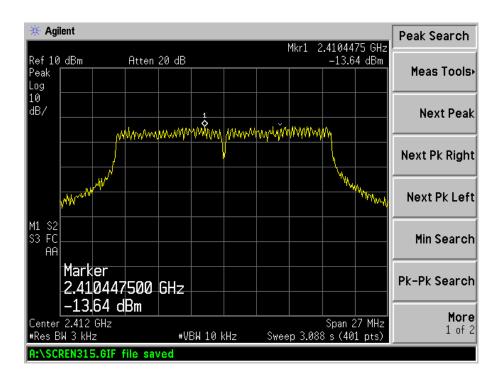


802.11g-High Channel

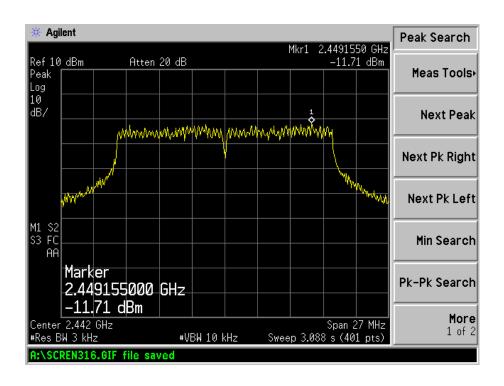




802.11n-HT20-Low Channel

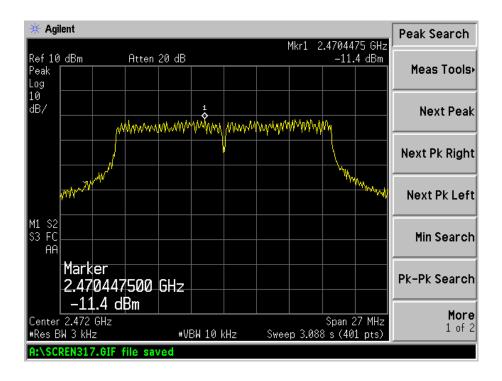


802.11n-HT20-Middle Channel

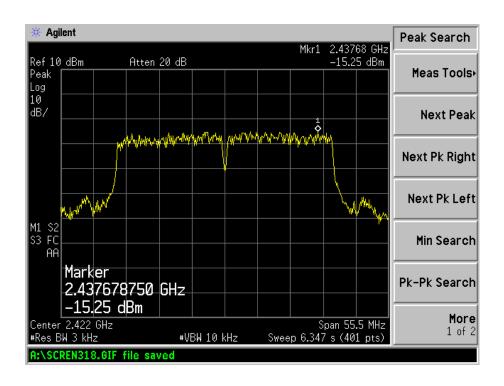




802.11n-HT20-High Channel

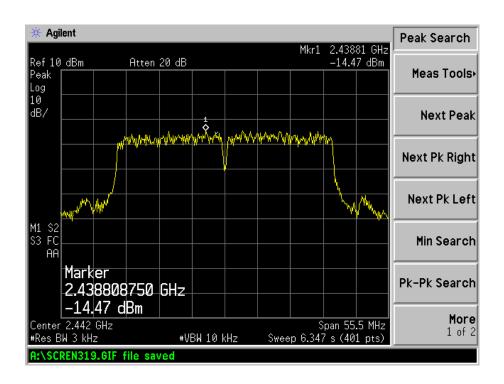


802.11n-HT40-Low Channel

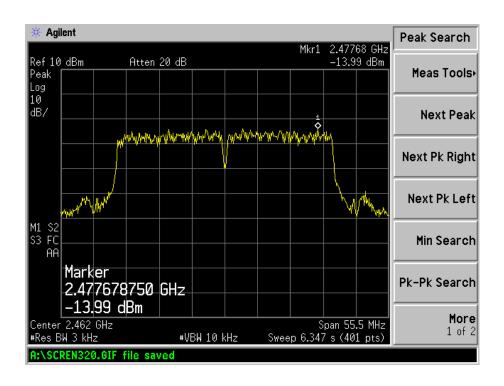




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel





6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 Test Equipment List and Details

| Description | Manufacturer | Model | Serial Number | Cal. Date | Due. Date |
|-------------------|--------------|-------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4402B | US41192821 | 2014-05-28 | 2015-05-27 |
| Attenuator | ATTEN | ATS100-4-20 | / | 2014-05-28 | 2015-05-27 |

6.3 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 3. Set the video bandwidth (VBW) \geq 3 x RBW.
- 4. Detector = Peak.
- 5. Trace mode = \max hold.
- 6. Sweep = auto couple.
- 7. Allow the trace to stabilize.
- 8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission..

6.4 Environmental Conditions

| Temperature: | 25° C |
|--------------------|-----------|
| Relative Humidity: | 53% |
| ATM Pressure: | 1018 mbar |

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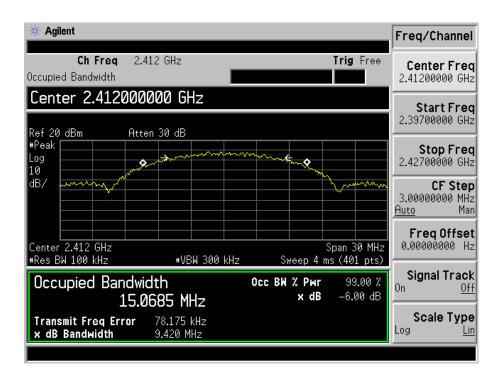
6.5 Summary of Test Results/Plots

| Test Mode | Test Channel | 6 dB Bandwidth | 99% Bandwidth | Limit |
|--------------|--------------|----------------|---------------|-------|
| lest Wioue | MHz | kHz | kHz | kHz |
| | 2412 | 9420 | 15068.5 | 500 |
| 802.11b | 2442 | 10143 | 15155.4 | 500 |
| | 2472 | 9453 | 15161.9 | 500 |
| | 2412 | 16574 | 16574 16620.4 | |
| 802.11g | 2442 | 16572 | 16543.5 | 500 |
| | 2472 | 16594 | 16566.7 | 500 |
| | 2412 | 17820 | 17722.1 | 500 |
| 802.11n-HT20 | 2442 | 17866 | 17752.2 | 500 |
| | 2472 | 17850 | 17733.4 | 500 |
| | 2422 | 36478 | 36100.1 | 500 |
| 802.11n-HT40 | 2442 | 36477 | 36080.0 | 500 |
| | 2462 | 36496 | 36080.5 | 500 |

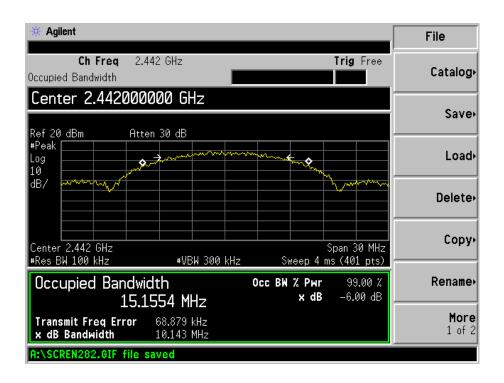
Please refer to the following test plots:



802.11b-Low Channel

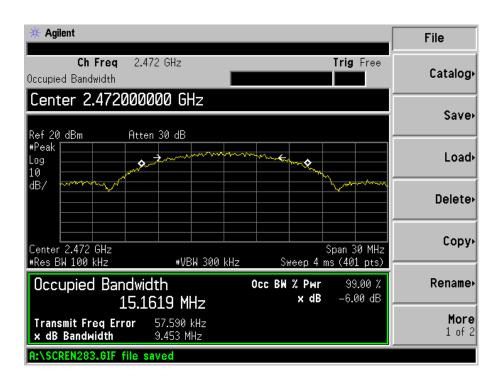


802.11b-Middle Channel

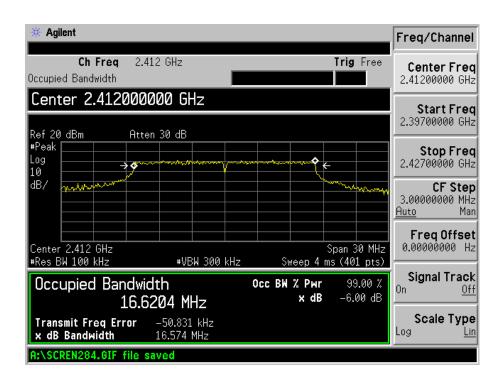




802.11b-High Channel

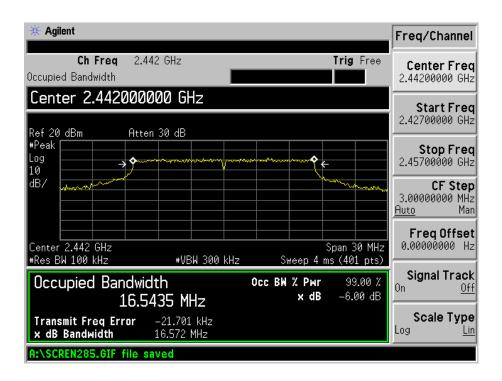


802.11g-Low Channel

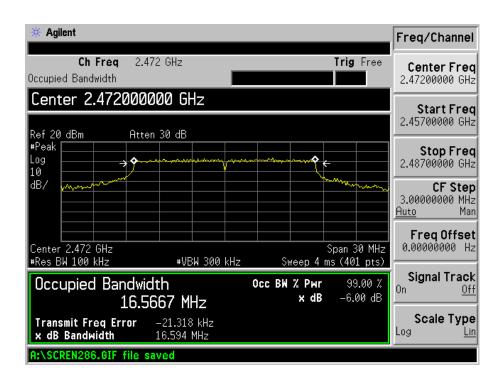




802.11g-Middle Channel

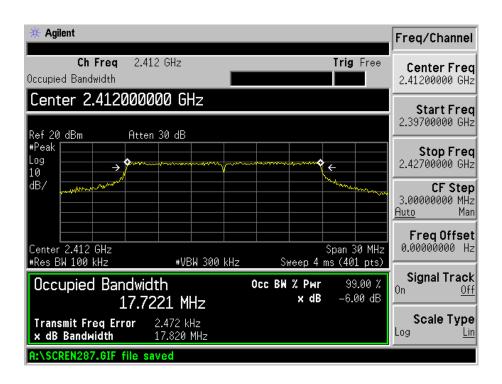


802.11g-High Channel

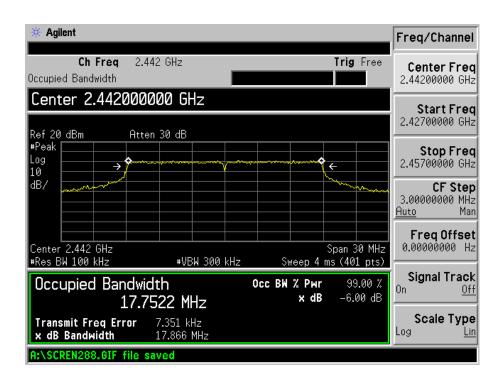




802.11n-HT20-Low Channel

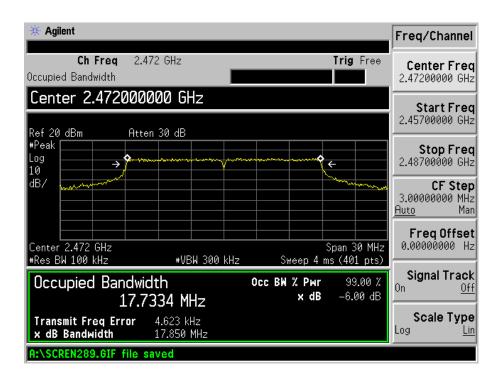


802.11n-HT20-Middle Channel

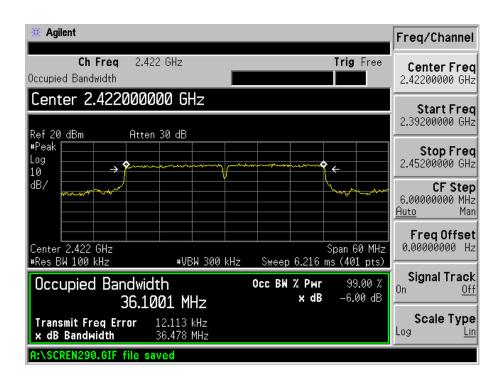




802.11n-HT20-High Channel

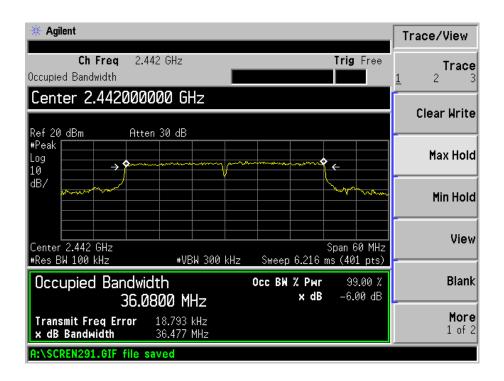


802.11n-HT40-Low Channel

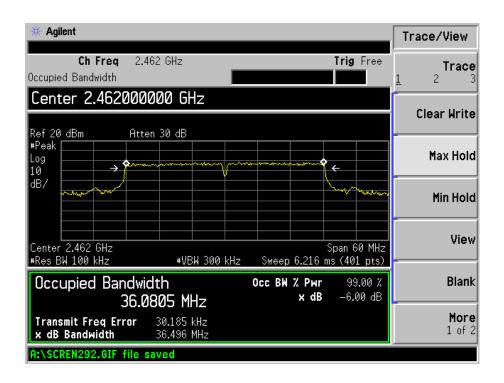




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel





7. RF Output Power

7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

7.2 Test Equipment List and Details

| Description Manufacturer | | Model | Model Serial Number | | Due. Date |
|--------------------------|---------|-------------|---------------------|------------|------------|
| Spectrum Analyzer | Agilent | E4402B | US41192821 | 2014-05-28 | 2015-05-27 |
| Attenuator ATTEN | | ATS100-4-20 | / | 2014-05-28 | 2015-05-27 |

7.3 Test Procedure

According to section 15.247(b)-power output of the KDB-558074 D01 V03r02, 8.1.2 Option 2 (channel integration method) this procedure should only be used when the maximum available RBW of the spectrum/signal analyzer is less than the DTS bandwidth.

- 1. Set the RBW = maximum available (at least 1 MHz).
- 2. Set the VBW = $3 \times RBW$ or maximum available setting (must be $\geq RBW$).
- 3. Set the span to fully encompass the DTS bandwidth.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector).

7.4 Environmental Conditions

| Temperature: | 26° C |
|--------------------|-----------|
| Relative Humidity: | 57% |
| ATM Pressure: | 1011 mbar |

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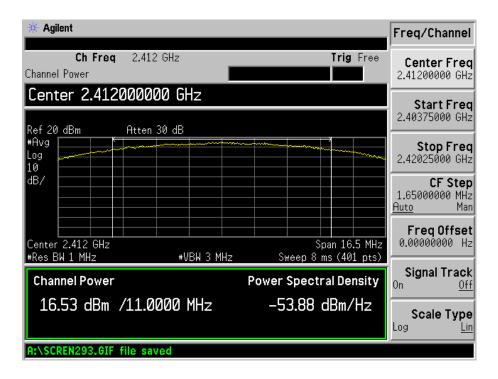
7.5 Summary of Test Results/Plots

| Test Mede | Frequency | Reading | Output Power | Limit |
|-------------------|-----------|---------|--------------|-------|
| Test Mode | MHz | dBm | mW | mW |
| | 2412 | 16.53 | 44.98 | 1000 |
| 802.11b _ 11Mbps | 2442 | 16.73 | 47.10 | 1000 |
| | 2472 | 16.97 | 49.77 | 1000 |
| | 2412 | | 18.03 | 1000 |
| 802.11g_54Mbps | 2442 | 13.13 | 20.56 | 1000 |
| | 2472 | 13.98 | 25.00 | 1000 |
| | 2412 | 12.30 | 16.98 | 1000 |
| 802.11n HT20_MCS7 | 2442 | 13.05 | 20.18 | 1000 |
| | 2472 | 13.77 | 23.82 | 1000 |
| | 2422 | 12.16 | 16.44 | 1000 |
| 802.11n HT40_MCS7 | 2442 | 12.91 | 19.54 | 1000 |
| | 2462 | 13.29 | 21.33 | 1000 |

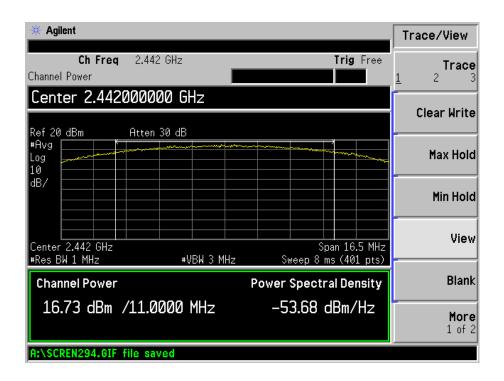
Please refer to the following test plots:



802.11b-Low Channel

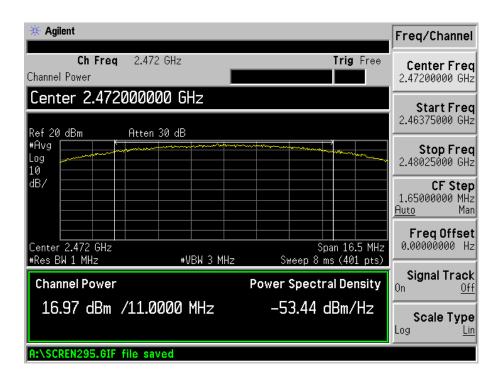


802.11b-Middle Channel

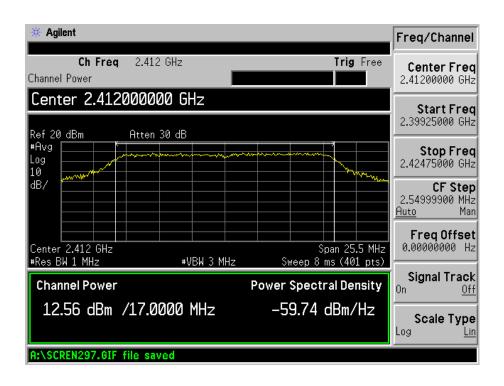




802.11b-High Channel

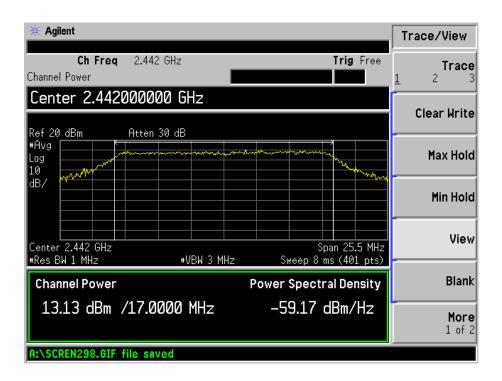


802.11g-Low Channel

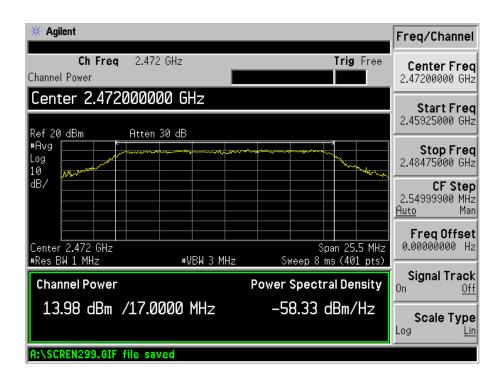




802.11g-Middle Channel

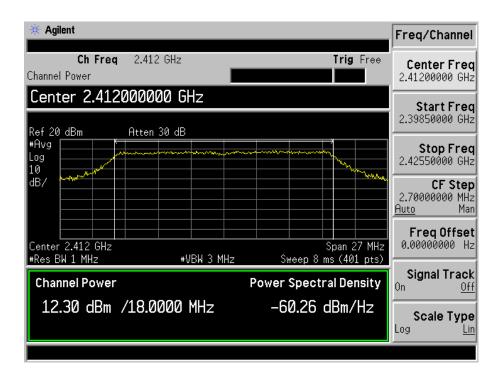


802.11g-High Channel

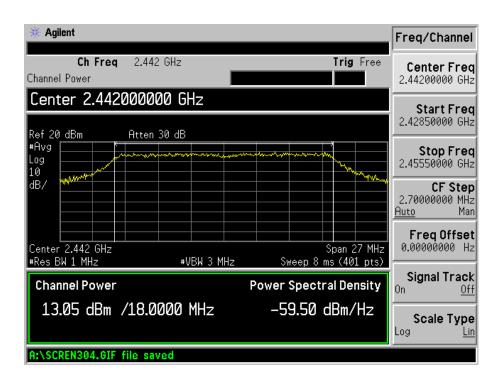




802.11n-HT20-Low Channel

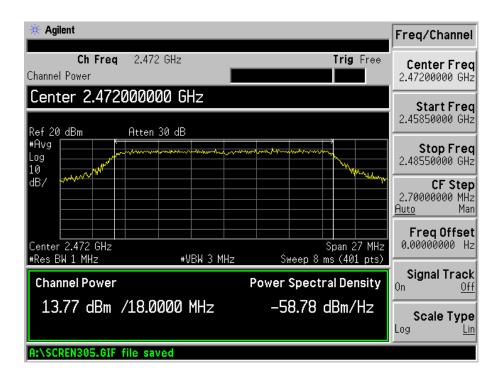


802.11n-HT20-Middle Channel

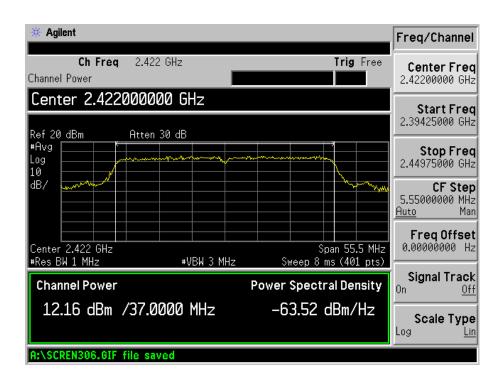




802.11n-HT20-High Channel

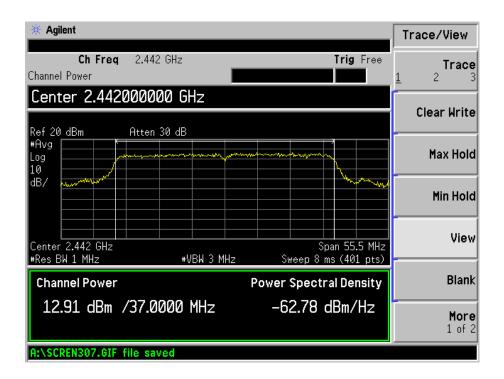


802.11n-HT40-Low Channel

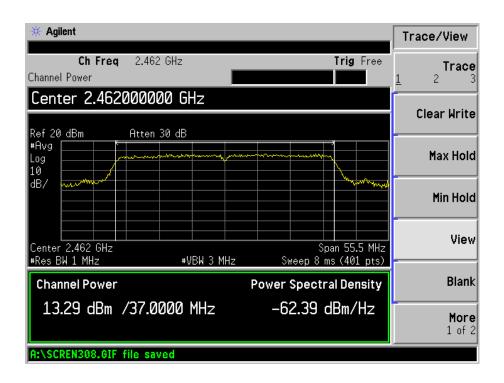




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel





8. Field Strength of Spurious Emissions

8.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is +5.10 dB.

8.2 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

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.

8.3 Test Equipment List and Details

| Description | Description Manufacturer | | Serial Number | Cal. Date | Due. Date |
|--------------------------|--------------------------|-----------|-----------------|------------|------------|
| Spectrum Analyzer | Spectrum Analyzer R&S | | 836079/035 | 2014-05-28 | 2015-05-27 |
| EMI Test Receiver | R&S | ESVB | ESVB 825471/005 | | 2015-05-27 |
| Pre-amplifier | Agilent | 8447F | 3113A06717 | 2014-05-28 | 2015-05-27 |
| Pre-amplifier | Compliance Direction | PAP-0118 | 24002 | 2014-05-28 | 2015-05-27 |
| Trilog Broadband Antenna | SCHWARZBECK | VULB9163 | 9163-333 | 2014-05-24 | 2015-05-23 |
| Horn Antenna | ETS | 3117 | 00086197 | 2014-05-24 | 2015-05-23 |
| Horn Antenna | ETS | 3116B | 00088203 | 2014-05-24 | 2015-05-23 |
| Loop Antenna | SCHWARZECK | HFRA 5165 | 9365 | 2014-05-24 | 2015-05-23 |

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8.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.205 15.247(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.



| Frequency:9kHz-30MHz | Frequency:30MHz-1GHz | Frequency : Above 1GHz |
|--------------------------|------------------------------|------------------------------|
| RBW=10KHz, | RBW=120KHz, | RBW=1MHz, |
| VBW = 30KHz | VBW=300KHz | VBW=3MHz(Peak), 10Hz(AV) |
| Sweep time= Auto | Sweep time= Auto | Sweep time= Auto |
| Trace = max hold | Trace = max hold | Trace = \max hold |
| Detector function = peak | Detector function = peak, QP | Detector function = peak, AV |

8.5 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 for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – FCC Part 15 Limit

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8.6 Environmental Conditions

| Temperature: | 25 °C |
|--------------------|-----------|
| Relative Humidity: | 52% |
| ATM Pressure: | 1012 mbar |

8.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

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

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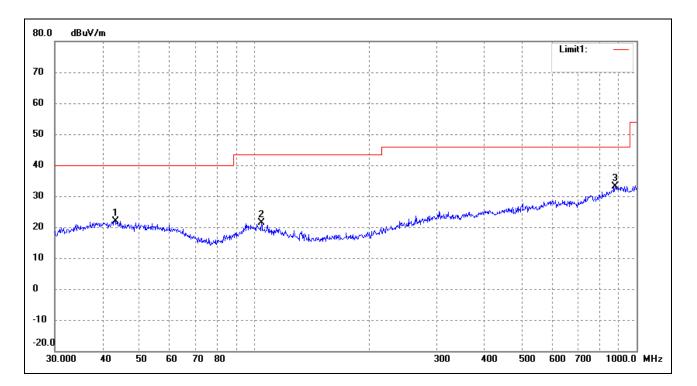
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Sero 7 LE
Tested Model: E2371

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

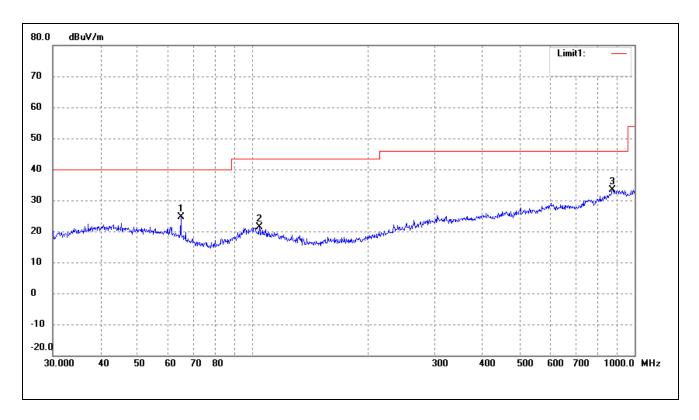
Comment: Battery DC 3.7V

Test Specification: Horizontal



| Ī | No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|---|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| Ī | 1 | 43.2017 | 14.94 | 6.93 | 21.87 | 40.00 | -18.13 | 0 | 100 | peak |
| Ī | 2 | 104.1701 | 15.58 | 5.69 | 21.27 | 43.50 | -22.23 | 180 | 100 | peak |
| Ī | 3 | 878.3214 | 16.46 | 16.78 | 33.24 | 46.00 | -12.76 | 0 | 100 | peak |



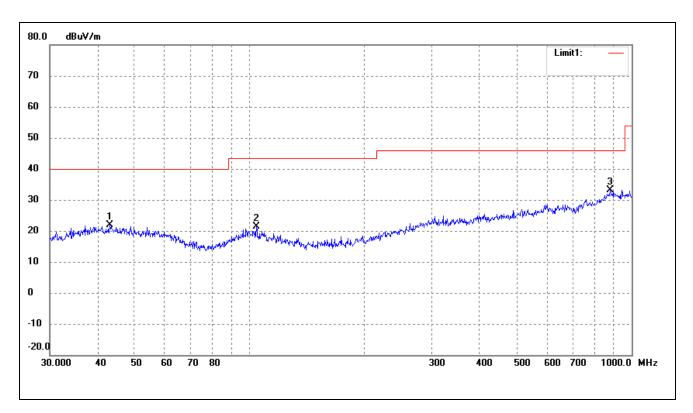


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 64.8865 | 20.72 | 3.82 | 24.54 | 40.00 | -15.46 | 0 | 100 | peak |
| 2 | 104.1701 | 15.58 | 5.69 | 21.27 | 43.50 | -22.23 | 270 | 100 | peak |
| 3 | 875.2470 | 16.57 | 16.70 | 33.27 | 46.00 | -12.73 | 360 | 100 | peak |



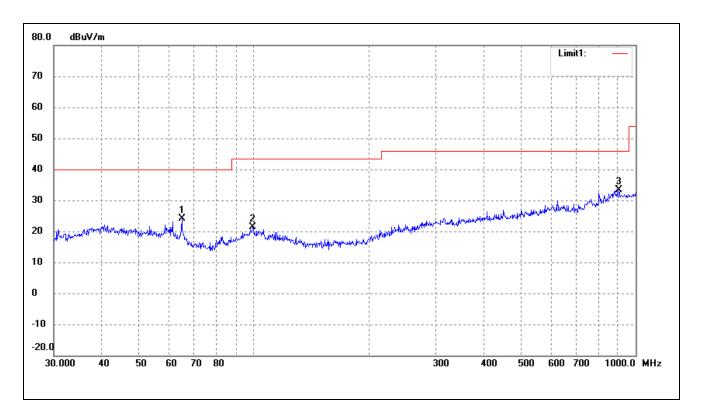
Operating Condition: 802.11b Transmitting Middle Channel-2442MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 43.0505 | 14.89 | 6.94 | 21.83 | 40.00 | -18.17 | 180 | 100 | peak |
| 2 | 104.1701 | 15.58 | 5.69 | 21.27 | 43.50 | -22.23 | 0 | 100 | peak |
| 3 | 878.3214 | 16.46 | 16.78 | 33.24 | 46.00 | -12.76 | 160 | 100 | peak |



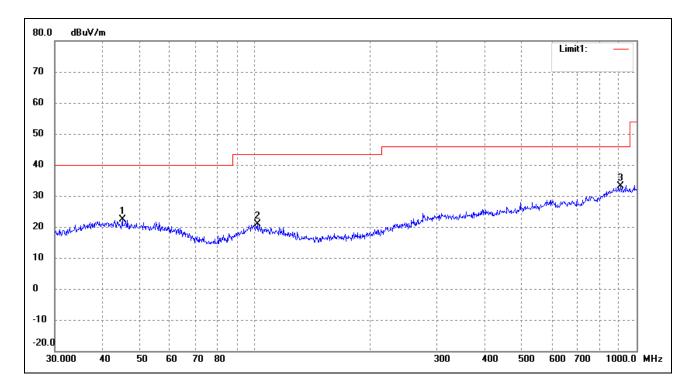


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 64.8865 | 20.25 | 3.82 | 24.07 | 40.00 | -15.93 | 270 | 100 | peak |
| 2 | 99.5281 | 15.46 | 6.01 | 21.47 | 43.50 | -22.03 | 360 | 100 | peak |
| 3 | 903.3094 | 16.55 | 16.79 | 33.34 | 46.00 | -12.66 | 360 | 100 | peak |



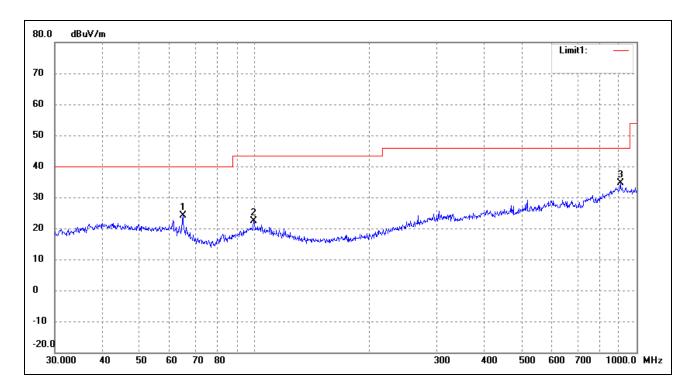
Operating Condition: 802.11b Transmitting High Channel-2472MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 45.0583 | 15.60 | 6.75 | 22.35 | 40.00 | -17.65 | 120 | 100 | peak |
| 2 | 101.6443 | 14.91 | 5.95 | 20.86 | 43.50 | -22.64 | 250 | 100 | peak |
| 3 | 909.6667 | 16.53 | 16.68 | 33.21 | 46.00 | -12.79 | 360 | 100 | peak |





| | No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|---|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| Ī | 1 | 64.8865 | 20.37 | 3.82 | 24.19 | 40.00 | -15.81 | 360 | 100 | peak |
| Ī | 2 | 99.5281 | 16.47 | 6.01 | 22.48 | 43.50 | -21.02 | 200 | 100 | peak |
| | 3 | 906.4824 | 17.99 | 16.73 | 34.72 | 46.00 | -11.28 | 120 | 100 | peak |

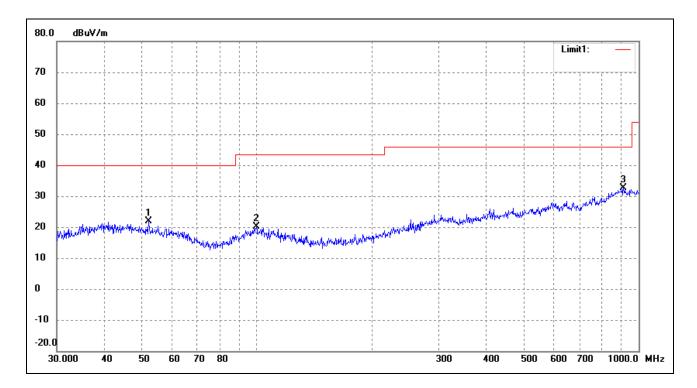


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Sero 7 LE
Tested Model: E2371

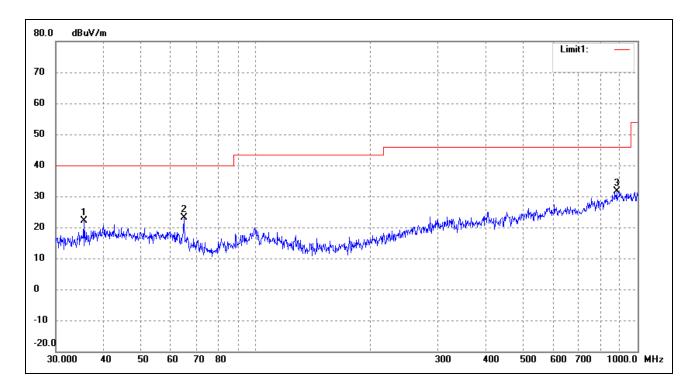
Operating Condition: 802.11g Transmitting Low Channel-2412MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 52.2079 | 15.93 | 6.07 | 22.00 | 40.00 | -18.00 | 170 | 100 | peak |
| 2 | 99.8777 | 13.91 | 6.10 | 20.01 | 43.50 | -23.49 | 20 | 100 | peak |
| 3 | 912.8620 | 16.01 | 16.62 | 32.63 | 46.00 | -13.37 | 320 | 100 | peak |



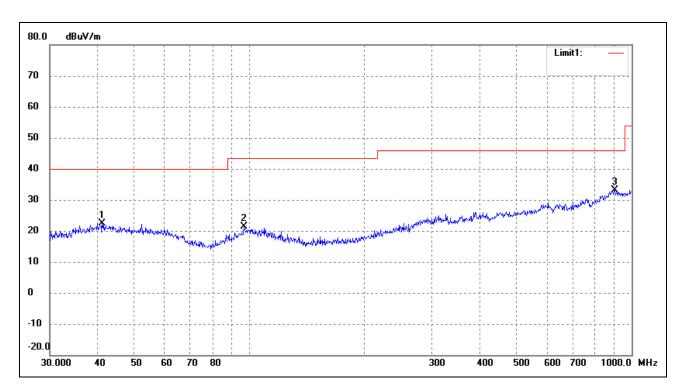


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 35.4993 | 13.61 | 8.47 | 22.08 | 40.00 | -17.92 | 270 | 100 | peak |
| 2 | 64.8865 | 19.32 | 3.82 | 23.14 | 40.00 | -16.86 | 90 | 100 | peak |
| 3 | 881.4067 | 14.78 | 16.82 | 31.60 | 46.00 | -14.40 | 360 | 100 | peak |



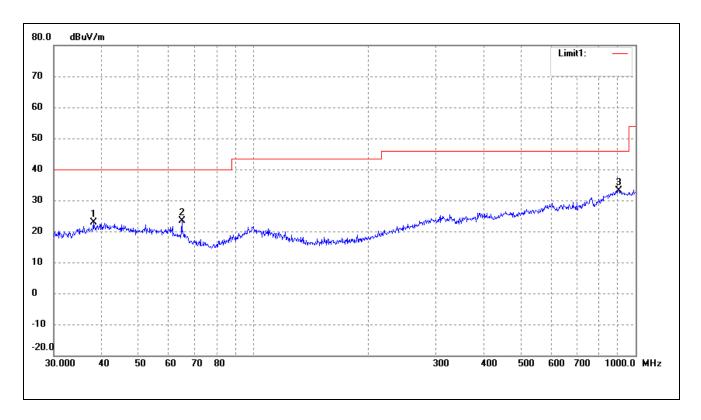
Operating Condition: 802.11g Transmitting Middle Channel-2442MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 41.1320 | 15.30 | 7.14 | 22.44 | 40.00 | -17.56 | 270 | 100 | peak |
| 2 | 96.7749 | 16.05 | 5.32 | 21.37 | 43.50 | -22.13 | 160 | 100 | peak |
| 3 | 903.3094 | 16.32 | 16.79 | 33.11 | 46.00 | -12.89 | 228 | 200 | peak |



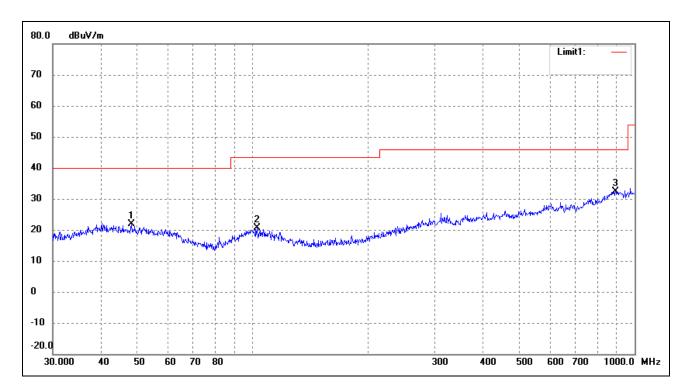


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 38.0783 | 14.02 | 8.92 | 22.94 | 40.00 | -17.06 | 360 | 100 | peak |
| 2 | 64.8865 | 19.45 | 3.82 | 23.27 | 40.00 | -16.73 | 120 | 100 | peak |
| 3 | 903.3094 | 16.32 | 16.79 | 33.11 | 46.00 | -12.89 | 270 | 100 | peak |



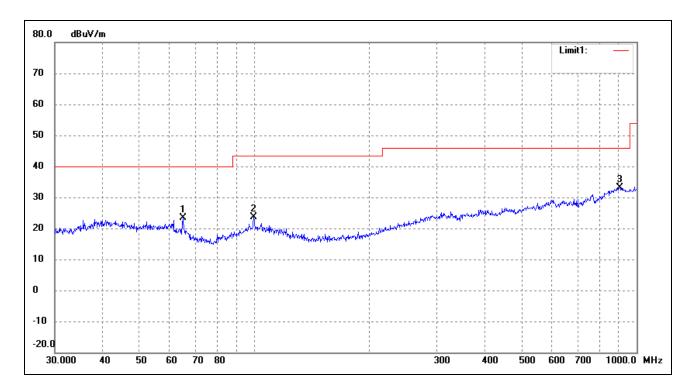
Operating Condition: 802.11g Transmitting High Channel-2472MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 48.1626 | 15.33 | 6.44 | 21.77 | 40.00 | -18.23 | 270 | 100 | peak |
| 2 | 102.7192 | 14.82 | 5.85 | 20.67 | 43.50 | -22.83 | 150 | 100 | peak |
| 3 | 890.7278 | 15.66 | 16.84 | 32.50 | 46.00 | -13.50 | 360 | 100 | peak |





| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 64.8865 | 19.45 | 3.82 | 23.27 | 40.00 | -16.73 | 360 | 100 | peak |
| 2 | 99.5281 | 17.66 | 6.01 | 23.67 | 43.50 | -19.83 | 180 | 100 | peak |
| 3 | 903.3094 | 16.32 | 16.79 | 33.11 | 46.00 | -12.89 | 120 | 100 | peak |

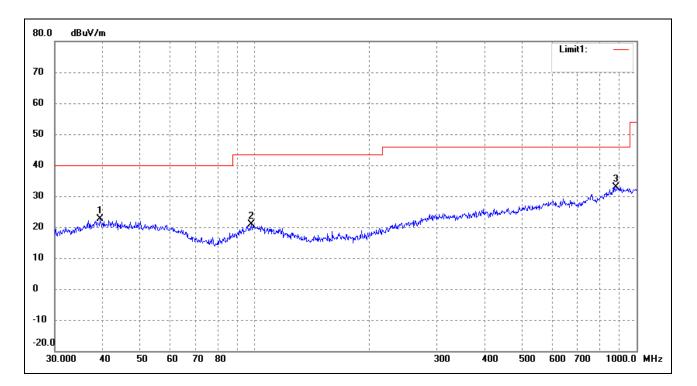


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Sero 7 LE
Tested Model: E2371

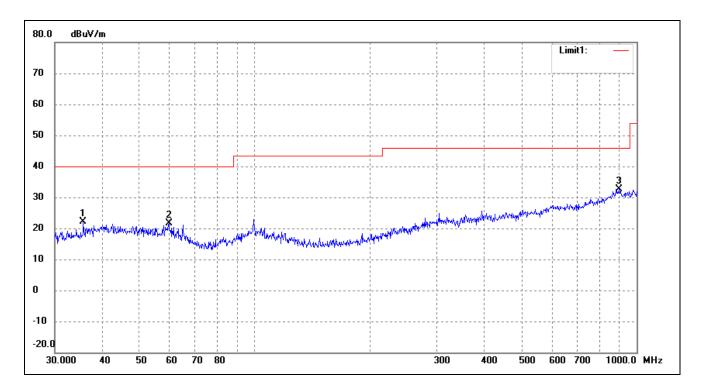
Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz

Comment: Battery DC 3.7V



| | No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|---|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| Ī | 1 | 39.4372 | 15.43 | 7.10 | 22.53 | 40.00 | -17.47 | 260 | 100 | peak |
| Ī | 2 | 98.1419 | 15.26 | 5.67 | 20.93 | 43.50 | -22.57 | 120 | 200 | peak |
| | 3 | 884.5029 | 16.12 | 16.83 | 32.95 | 46.00 | -13.05 | 289 | 200 | peak |



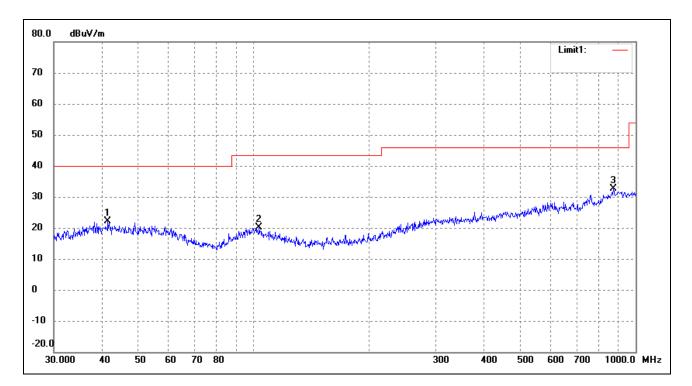


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 35.6240 | 13.62 | 8.49 | 22.11 | 40.00 | -17.89 | 130 | 100 | peak |
| 2 | 59.6493 | 16.24 | 5.41 | 21.65 | 40.00 | -18.35 | 120 | 100 | peak |
| 3 | 900.1474 | 15.73 | 16.85 | 32.58 | 46.00 | -13.42 | 360 | 100 | peak |



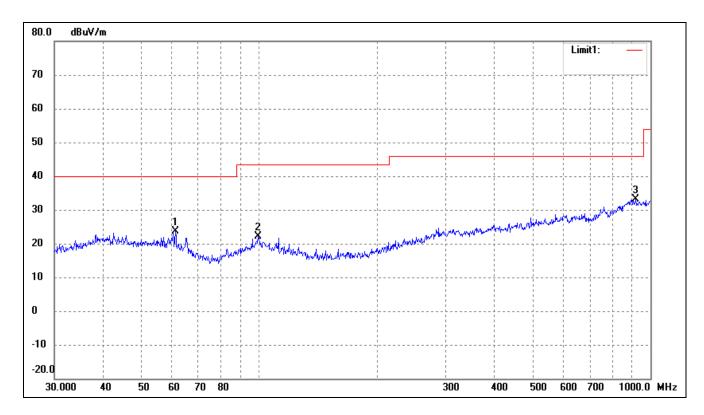
Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2442MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 41.5670 | 14.94 | 7.09 | 22.03 | 40.00 | -17.97 | 274 | 100 | peak |
| 2 | 103.4421 | 14.40 | 5.77 | 20.17 | 43.50 | -23.33 | 130 | 100 | peak |
| 3 | 875.2470 | 15.96 | 16.70 | 32.66 | 46.00 | -13.34 | 120 | 100 | peak |



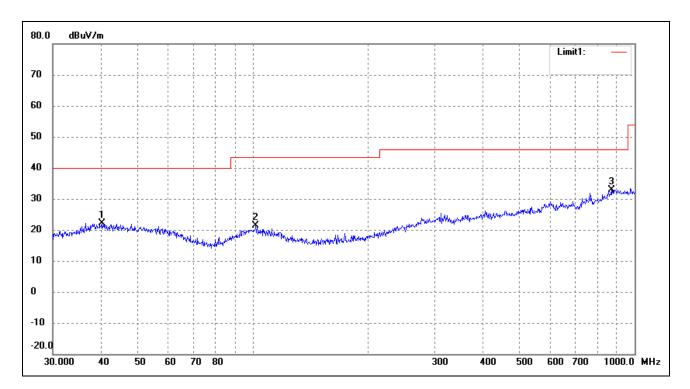


| N | lo. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|---|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| | 1 | 61.1316 | 18.53 | 5.02 | 23.55 | 40.00 | -16.45 | 360 | 100 | peak |
| | 2 | 99.5281 | 16.16 | 6.01 | 22.17 | 43.50 | -21.33 | 110 | 100 | peak |
| | 3 | 916.0687 | 16.62 | 16.56 | 33.18 | 46.00 | -12.82 | 120 | 100 | peak |



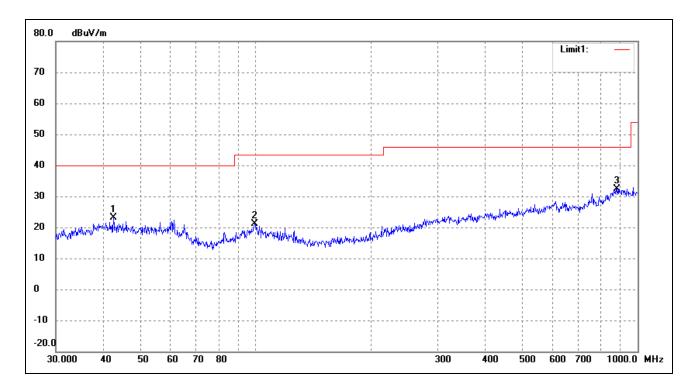
Operating Condition: 802.11n-HT20 Transmitting High Channel-2472MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 40.2757 | 14.89 | 7.22 | 22.11 | 40.00 | -17.89 | 360 | 100 | peak |
| 2 | 102.0014 | 15.56 | 5.91 | 21.47 | 43.50 | -22.03 | 138 | 100 | peak |
| 3 | 869.1302 | 16.36 | 16.54 | 32.90 | 46.00 | -13.10 | 180 | 200 | peak |





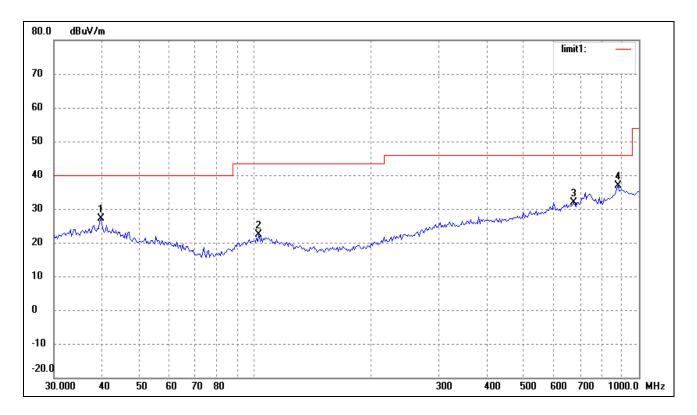
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 42.4508 | 14.66 | 8.51 | 23.17 | 40.00 | -16.83 | 270 | 100 | peak |
| 2 | 99.5281 | 15.16 | 6.01 | 21.17 | 43.50 | -22.33 | 120 | 100 | peak |
| 3 | 884.5029 | 15.57 | 16.83 | 32.40 | 46.00 | -13.60 | 360 | 100 | peak |



EUT: Sero 7 LE Tested Model: E2371

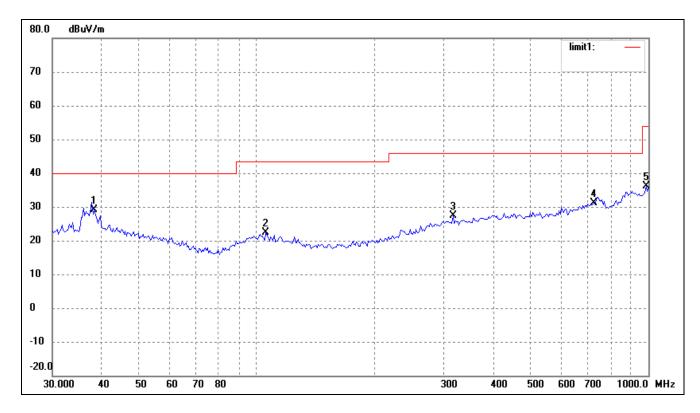
Operating Condition: 802.11n-HT40 Transmitting Low Channel-2422MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 39.7147 | 17.39 | 9.64 | 27.03 | 40.00 | -12.97 | 267 | 100 | peak |
| 2 | 102.3597 | 15.89 | 6.61 | 22.50 | 43.50 | -21.00 | 114 | 200 | peak |
| 3 | 675.2080 | 16.60 | 15.36 | 31.96 | 46.00 | -14.04 | 35 | 200 | peak |
| 4 | 881.4067 | 17.84 | 19.03 | 36.87 | 46.00 | -9.13 | 81 | 100 | peak |



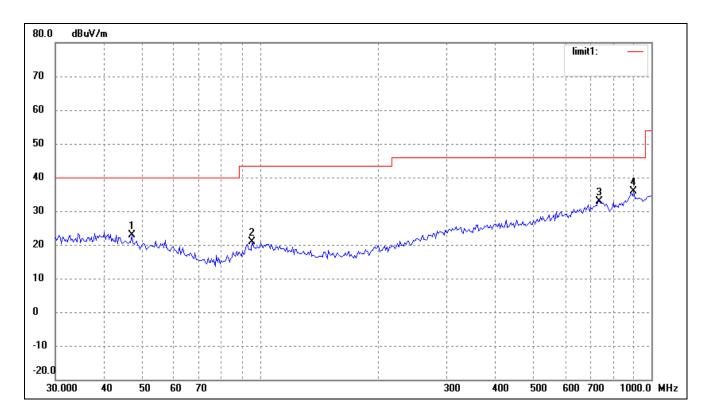


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 38.3462 | 19.59 | 9.42 | 29.01 | 40.00 | -10.99 | 360 | 100 | peak |
| 2 | 105.2718 | 15.98 | 6.32 | 22.30 | 43.50 | -21.20 | 258 | 100 | peak |
| 3 | 316.5890 | 16.84 | 10.44 | 27.28 | 46.00 | -18.72 | 347 | 100 | peak |
| 4 | 724.2611 | 14.21 | 16.93 | 31.14 | 46.00 | -14.86 | 270 | 100 | peak |
| 5 | 986.0717 | 16.86 | 19.17 | 36.03 | 54.00 | -17.97 | 90 | 100 | peak |



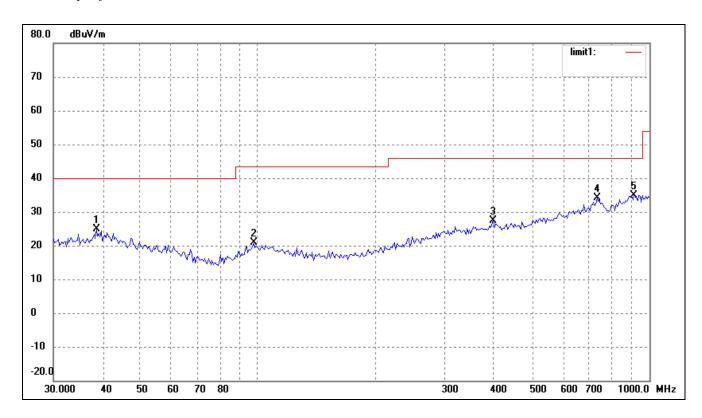
Operating Condition: 802.11n-HT40 Transmitting Middle Channel-2442MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 46.9948 | 15.43 | 7.54 | 22.97 | 40.00 | -17.03 | 251 | 100 | peak |
| 2 | 95.4270 | 15.15 | 5.71 | 20.86 | 43.50 | -22.64 | 167 | 100 | peak |
| 3 | 734.4913 | 15.18 | 17.68 | 32.86 | 46.00 | -13.14 | 44 | 100 | peak |
| 4 | 900.1474 | 16.39 | 19.38 | 35.77 | 46.00 | -10.23 | 130 | 100 | peak |





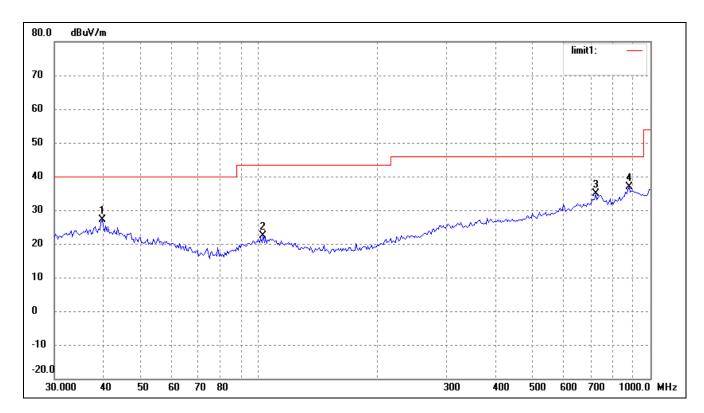
| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 38.6161 | 15.30 | 9.46 | 24.76 | 40.00 | -15.24 | 47 | 100 | peak |
| 2 | 97.4560 | 14.68 | 6.21 | 20.89 | 43.50 | -22.61 | 264 | 100 | peak |
| 3 | 399.0302 | 15.85 | 11.50 | 27.35 | 46.00 | -18.65 | 225 | 100 | peak |
| 4 | 734.4913 | 16.36 | 17.68 | 34.04 | 46.00 | -11.96 | 180 | 100 | peak |
| 5 | 912.8620 | 15.86 | 18.93 | 34.79 | 46.00 | -11.21 | 315 | 100 | peak |





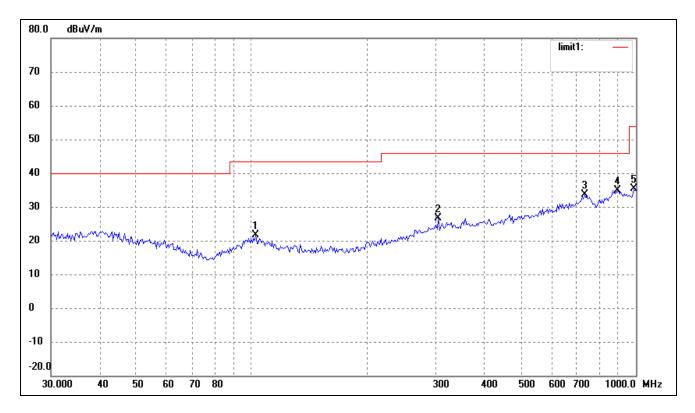
Operating Condition: 802.11n-HT40 Transmitting High Channel-2462MHz

Comment: Battery DC 3.7V



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 39.7147 | 17.39 | 9.64 | 27.03 | 40.00 | -12.97 | 360 | 100 | peak |
| 2 | 102.3597 | 15.89 | 6.61 | 22.50 | 43.50 | -21.00 | 287 | 100 | peak |
| 3 | 724.2611 | 18.01 | 16.93 | 34.94 | 46.00 | -11.06 | 168 | 100 | peak |
| 4 | 881.4067 | 17.84 | 19.03 | 36.87 | 46.00 | -9.13 | 122 | 100 | peak |





| No. | Frequency | Reading | Correct | Result | Limit | Margin | Degree | Height | Remark |
|-----|-----------|----------|---------|----------|----------|--------|--------|--------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | (•) | (cm) | |
| 1 | 102.3597 | 15.01 | 6.61 | 21.62 | 43.50 | -21.88 | 78 | 100 | peak |
| 2 | 305.6800 | 16.44 | 10.27 | 26.71 | 46.00 | -19.29 | 136 | 100 | peak |
| 3 | 734.4913 | 15.93 | 17.68 | 33.61 | 46.00 | -12.39 | 284 | 100 | peak |
| 4 | 893.8567 | 15.69 | 19.27 | 34.96 | 46.00 | -11.04 | 60 | 100 | peak |
| 5 | 986.0717 | 16.20 | 19.17 | 35.37 | 54.00 | -18.63 | 330 | 100 | peak |



Spurious Emissions Above 1GHz

Test Mode: 802.11b

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|-----------|----------|---------|-------------|-------------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| | | | Low Channe | el-2412MHz | | | • |
| 4824.000 | 59.24 | 0.57 | 59.81 | 74.00 | -14.19 | Н | PK |
| 4824.000 | 44.84 | 0.57 | 45.41 | 54.00 | -8.59 | Н | AV |
| 7236.000 | 35.01 | 3.69 | 38.70 | 74.00 | -35.30 | Н | PK |
| 7236.000 | 23.58 | 3.69 | 27.27 | 54.00 | -26.73 | Н | AV |
| 4824.000 | 50.85 | 0.57 | 51.42 | 74.00 | -22.58 | V | PK |
| 4824.000 | 37.17 | 0.57 | 37.74 | 54.00 | -16.26 | V | AV |
| 7236.000 | 34.80 | 3.69 | 38.49 | 74.00 | -35.51 | V | PK |
| 7236.000 | 23.41 | 3.69 | 27.10 | 54.00 | -26.90 | V | AV |
| | | | Middle Chan | nel-2442MHz | | | |
| 4884.000 | 57.35 | 0.66 | 58.01 | 74.00 | -15.99 | Н | PK |
| 4884.000 | 42.77 | 0.66 | 43.43 | 54.00 | -10.57 | Н | AV |
| 7326.000 | 37.61 | 3.76 | 41.37 | 74.00 | -32.63 | Н | PK |
| 7326.000 | 25.87 | 3.76 | 29.63 | 54.00 | -24.37 | Н | AV |
| 4884.000 | 51.19 | 0.66 | 51.85 | 74.00 | -22.15 | V | PK |
| 4884.000 | 37.61 | 0.66 | 38.27 | 54.00 | -15.73 | V | AV |
| 7326.000 | 38.83 | 3.76 | 42.59 | 74.00 | -31.41 | V | PK |
| 7326.000 | 25.84 | 3.76 | 29.60 | 54.00 | -24.40 | V | AV |
| | | | High Chann | el-2472MHz | | | |
| 4944.000 | 56.32 | 0.74 | 57.06 | 74.00 | -16.94 | Н | PK |
| 4944.000 | 42.94 | 0.74 | 43.68 | 54.00 | -10.32 | Н | AV |
| 7416.000 | 37.91 | 3.83 | 41.74 | 74.00 | -32.26 | Н | PK |
| 7416.000 | 27.26 | 3.83 | 31.09 | 54.00 | -22.91 | Н | AV |
| 4944.000 | 53.07 | 0.74 | 53.81 | 74.00 | -20.19 | V | PK |
| 4944.000 | 39.42 | 0.74 | 40.16 | 54.00 | -13.84 | V | AV |
| 7416.000 | 38.69 | 3.83 | 42.52 | 74.00 | -31.48 | V | PK |
| 7416.000 | 27.20 | 3.83 | 31.03 | 54.00 | -22.97 | V | AV |



Test Mode: 802.11g

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector | | | | |
|-----------|------------------------|---------|------------|------------|--------|-------|----------|--|--|--|--|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | | | | | |
| | | | Low Channe | el-2412MHz | | | • | | | | |
| 4824.000 | 54.00 | 0.57 | 54.57 | 74.00 | -19.43 | Н | PK | | | | |
| 4824.000 | 47.78 | 0.57 | 48.35 | 54.00 | -5.65 | Н | AV | | | | |
| 7236.000 | 35.17 | 3.69 | 38.86 | 74.00 | -35.14 | Н | PK | | | | |
| 7236.000 | 23.82 | 3.69 | 27.51 | 54.00 | -26.49 | Н | AV | | | | |
| 4824.000 | 42.22 | 0.57 | 42.79 | 74.00 | -31.21 | V | PK | | | | |
| 4824.000 | 33.11 | 0.57 | 33.68 | 54.00 | -20.32 | V | AV | | | | |
| 7236.000 | 35.08 | 3.69 | 38.77 | 74.00 | -35.23 | V | PK | | | | |
| 7236.000 | 23.89 | 3.69 | 27.58 | 54.00 | -26.42 | V | AV | | | | |
| | Middle Channel-2442MHz | | | | | | | | | | |
| 4884.000 | 53.19 | 0.66 | 53.85 | 74.00 | -20.15 | Н | PK | | | | |
| 4884.000 | 46.35 | 0.66 | 47.01 | 54.00 | -6.99 | Н | AV | | | | |
| 7326.000 | 37.62 | 3.76 | 41.38 | 74.00 | -32.62 | Н | PK | | | | |
| 7326.000 | 26.04 | 3.76 | 29.80 | 54.00 | -24.20 | Н | AV | | | | |
| 4884.000 | 43.36 | 0.66 | 44.02 | 74.00 | -29.98 | V | PK | | | | |
| 4884.000 | 32.19 | 0.66 | 32.85 | 54.00 | -21.15 | V | AV | | | | |
| 7326.000 | 37.03 | 3.76 | 40.79 | 74.00 | -33.21 | V | PK | | | | |
| 7326.000 | 26.65 | 3.76 | 30.41 | 54.00 | -23.59 | V | AV | | | | |
| | | | High Chann | el-2472MHz | | | | | | | |
| 4944.000 | 55.79 | 0.74 | 56.53 | 74.00 | -17.47 | Н | PK | | | | |
| 4944.000 | 33.00 | 0.74 | 33.74 | 54.00 | -20.26 | Н | AV | | | | |
| 7416.000 | 37.86 | 3.83 | 41.69 | 74.00 | -32.31 | Н | PK | | | | |
| 7416.000 | 27.21 | 3.83 | 31.04 | 54.00 | -22.96 | Н | AV | | | | |
| 4944.000 | 45.15 | 0.74 | 45.89 | 74.00 | -28.11 | V | PK | | | | |
| 4944.000 | 33.60 | 0.74 | 34.34 | 54.00 | -19.66 | V | AV | | | | |
| 7416.000 | 38.93 | 3.83 | 42.76 | 74.00 | -31.24 | V | PK | | | | |
| 7416.000 | 27.12 | 3.83 | 30.95 | 54.00 | -23.05 | V | AV | | | | |



Test Mode: 802.11n-HT20

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector | | | |
|------------------------|----------|---------|------------|------------|--------|-------|----------|--|--|--|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | | | | |
| | | | Low Channe | el-2412MHz | | | • | | | |
| 4824.000 | 55.85 | 0.57 | 56.42 | 74.00 | -17.58 | Н | PK | | | |
| 4824.000 | 32.67 | 0.57 | 33.24 | 54.00 | -20.76 | Н | AV | | | |
| 7236.000 | 34.49 | 3.69 | 38.18 | 74.00 | -35.82 | Н | PK | | | |
| 7236.000 | 23.28 | 3.69 | 26.97 | 54.00 | -27.03 | Н | AV | | | |
| 4824.000 | 43.03 | 0.57 | 43.60 | 74.00 | -30.40 | V | PK | | | |
| 4824.000 | 31.74 | 0.57 | 32.31 | 54.00 | -21.69 | V | AV | | | |
| 7236.000 | 34.59 | 3.69 | 38.28 | 74.00 | -35.72 | V | PK | | | |
| 7236.000 | 23.31 | 3.69 | 27.00 | 54.00 | -27.00 | V | AV | | | |
| Middle Channel-2442MHz | | | | | | | | | | |
| 4884.000 | 53.08 | 0.66 | 53.74 | 74.00 | -20.26 | Н | PK | | | |
| 4884.000 | 31.66 | 0.66 | 32.32 | 54.00 | -21.68 | Н | AV | | | |
| 7326.000 | 36.80 | 3.76 | 40.56 | 74.00 | -33.44 | Н | PK | | | |
| 7326.000 | 26.16 | 3.76 | 29.92 | 54.00 | -24.08 | Н | AV | | | |
| 4884.000 | 44.14 | 0.66 | 44.80 | 74.00 | -29.20 | V | PK | | | |
| 4884.000 | 32.41 | 0.66 | 33.07 | 54.00 | -20.93 | V | AV | | | |
| 7326.000 | 37.59 | 3.76 | 41.35 | 74.00 | -32.65 | V | PK | | | |
| 7326.000 | 25.48 | 3.76 | 29.24 | 54.00 | -24.76 | V | AV | | | |
| | | | High Chann | el-2472MHz | | | • | | | |
| 4944.000 | 53.25 | 0.74 | 53.99 | 74.00 | -20.01 | Н | PK | | | |
| 4944.000 | 31.69 | 0.74 | 32.43 | 54.00 | -21.57 | Н | AV | | | |
| 7416.000 | 38.35 | 3.83 | 42.18 | 74.00 | -31.82 | Н | PK | | | |
| 7416.000 | 27.19 | 3.83 | 31.02 | 54.00 | -22.98 | Н | AV | | | |
| 4944.000 | 43.52 | 0.74 | 44.26 | 74.00 | -29.74 | V | PK | | | |
| 4944.000 | 31.12 | 0.74 | 31.86 | 54.00 | -22.14 | V | AV | | | |
| 7416.000 | 38.66 | 3.83 | 42.49 | 74.00 | -31.51 | V | PK | | | |
| 7416.000 | 26.99 | 3.83 | 30.82 | 54.00 | -23.18 | V | AV | | | |



Test Mode: 802.11n-HT40

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|-----------|----------|---------|-------------|-------------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| | | | Low Channe | el-2422MHz | | | |
| 4844.000 | 53.25 | 0.60 | 53.85 | 74.00 | -20.15 | Н | PK |
| 4824.000 | 38.25 | 0.60 | 38.85 | 54.00 | -15.15 | Н | AV |
| 7266.000 | 46.48 | 3.72 | 50.20 | 74.00 | -23.80 | Н | PK |
| 7266.000 | 32.56 | 3.72 | 36.28 | 54.00 | -17.72 | Н | AV |
| 4844.000 | 54.22 | 0.60 | 54.82 | 74.00 | -19.18 | V | PK |
| 4824.000 | 39.42 | 0.60 | 40.02 | 54.00 | -13.98 | V | AV |
| 7266.000 | 48.81 | 3.72 | 52.53 | 74.00 | -21.47 | V | PK |
| 7266.000 | 34.78 | 3.72 | 38.50 | 54.00 | -15.50 | V | AV |
| | | | Middle Chan | nel-2442MHz | | | |
| 4884.000 | 52.53 | 0.66 | 53.19 | 74.00 | -20.81 | Н | PK |
| 4884.000 | 37.88 | 0.66 | 38.54 | 54.00 | -15.46 | Н | AV |
| 7326.000 | 44.88 | 3.76 | 48.64 | 74.00 | -25.36 | Н | PK |
| 7326.000 | 32.03 | 3.76 | 35.79 | 54.00 | -18.21 | Н | AV |
| 4884.000 | 53.74 | 0.66 | 54.40 | 74.00 | -19.60 | V | PK |
| 4884.000 | 39.95 | 0.66 | 40.61 | 54.00 | -13.39 | V | AV |
| 7326.000 | 45.78 | 3.76 | 49.54 | 74.00 | -24.46 | V | PK |
| 7326.000 | 34.00 | 3.76 | 37.76 | 54.00 | -16.24 | V | AV |
| | | | High Chann | el-2462MHz | | | |
| 4924.000 | 52.65 | 0.72 | 53.37 | 74.00 | -20.63 | Н | PK |
| 4924.000 | 39.37 | 0.72 | 40.09 | 54.00 | -13.91 | Н | AV |
| 7386.000 | 45.63 | 3.81 | 49.44 | 74.00 | -24.56 | Н | PK |
| 7386.000 | 30.73 | 3.81 | 34.54 | 54.00 | -19.46 | Н | AV |
| 4924.000 | 54.84 | 0.72 | 55.56 | 74.00 | -18.44 | V | PK |
| 4924.000 | 40.83 | 0.72 | 41.55 | 54.00 | -12.45 | V | AV |
| 7386.000 | 48.18 | 3.81 | 51.99 | 74.00 | -22.01 | V | PK |
| 7386.000 | 35.12 | 3.81 | 38.93 | 54.00 | -15.07 | 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.



9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Equipment List and Details

| Description | Manufacturer | Model | Serial Number | Cal. Date | Due. Date |
|--------------------------|----------------------|----------|----------------|------------|------------|
| Spectrum Analyzer | R&S | FSP | FSP 836079/035 | | 2015-05-27 |
| EMI Test Receiver | R&S | ESVB | 825471/005 | 2014-05-28 | 2015-05-27 |
| Pre-amplifier | Agilent | 8447F | 3113A06717 | 2014-05-28 | 2015-05-27 |
| Pre-amplifier | Compliance Direction | PAP-0118 | 24002 | 2014-05-28 | 2015-05-27 |
| Trilog Broadband Antenna | SCHWARZBECK | VULB9163 | 9163-333 | 2014-05-24 | 2015-05-23 |
| Horn Antenna | ETS | 3117 | 00086197 | 2014-05-24 | 2015-05-23 |

9.3 Test Procedure

According to the KDB 558074D01 v03r02, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

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

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

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According to the KDB 558074 D01 V03r02, the conducted spurious emissions test method as follows:

- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW \geq 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = \max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

9.4 Environmental Conditions

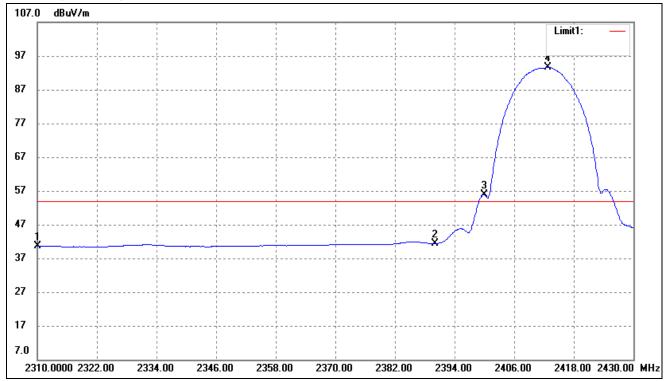
| Temperature: | 23°C |
|--------------------|-----------|
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

9.5 Summary of Test Results/Plots

Please refer to the test plots as below.



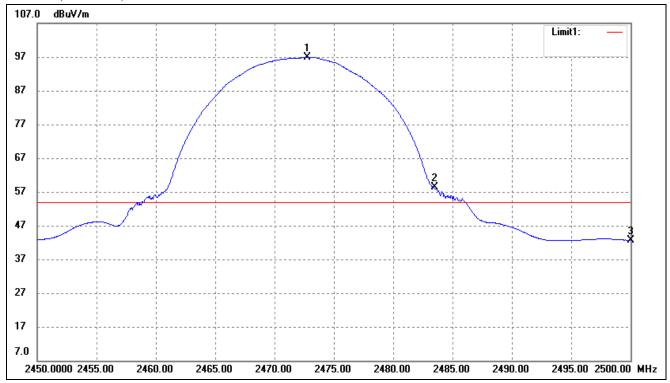
802.11b-Lowest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|----------|---------|----------|----------------|--------|------------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 24.21 | 16.34 | 40.55 | 54.00 | -13.45 | Average Detector |
| | 2310.000 | 35.53 | 16.34 | 51.87 | 74.00 | -22.13 | Peak Detector |
| 2 | 2390.000 | 24.44 | 17.03 | 41.47 | 54.00 | -12.53 | Average Detector |
| | 2390.000 | 36.77 | 17.03 | 53.80 | 74.00 | -20.20 | Peak Detector |
| 3 | 2400.000 | 38.72 | 17.11 | 55.83 | Delta=37.86dBc | | Average Detector |
| 4 | 2412.720 | 76.49 | 17.20 | 93.69 | Della-3/ | .oudc | Average Detector |



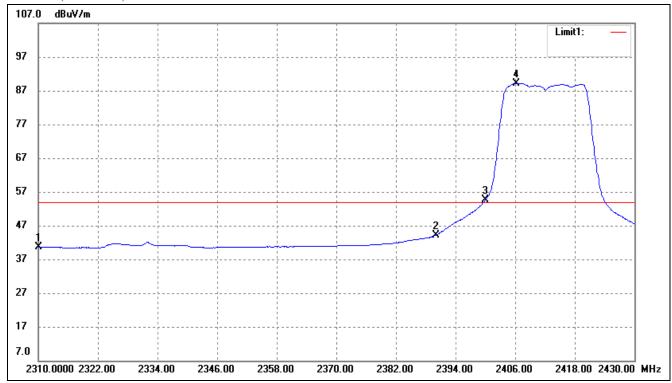
802.11b-Highest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|-----------|-----------|----------|----------|--------|------------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2472.750 | 79.30 | 17.66 | 96.96 | / | / | Average Detector |
| | 2471.750 | 87.96 | 17.66 | 105.62 | / | / | Peak Detector |
| 2 | 2483.500 | Delta = 4 | 0 02 dD a | 48.93 | 54.00 | -5.97 | Average Detector |
| | 2483.500 | Della – 4 | 8.03ubc | 57.59 | 74.00 | -16.41 | Peak Detector |
| 3 | 2500.000 | 24.78 | 17.86 | 42.64 | 54.00 | -11.36 | Average Detector |
| | 2500.000 | 36.71 | 17.86 | 54.57 | 74.00 | -19.43 | Peak Detector |



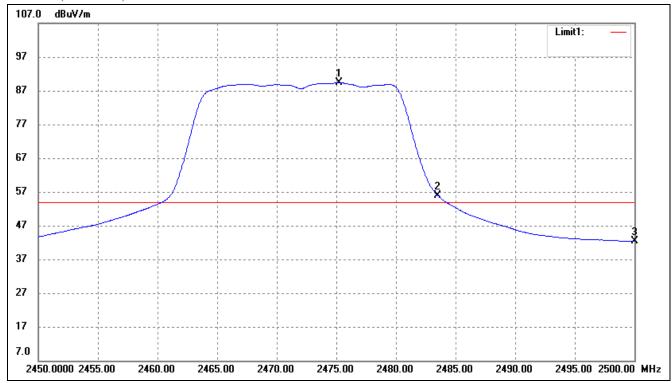
802.11g-Lowest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|----------|---------|----------|----------------|---------|------------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 24.21 | 16.34 | 40.55 | 54.00 | -13.45 | Average Detector |
| | 2310.000 | 35.60 | 16.34 | 51.94 | 74.00 | -22.06 | Peak Detector |
| 2 | 2390.000 | 27.16 | 17.03 | 44.19 | 54.00 | -9.81 | Average Detector |
| | 2390.000 | 43.98 | 17.03 | 61.01 | 74.00 | -12.99 | Peak Detector |
| 3 | 2400.000 | 37.41 | 17.11 | 54.52 | Delta=34.70dBc | | Average Detector |
| 4 | 2406.240 | 72.07 | 17.15 | 89.22 | Della-34 | ·./UUDC | Average Detector |



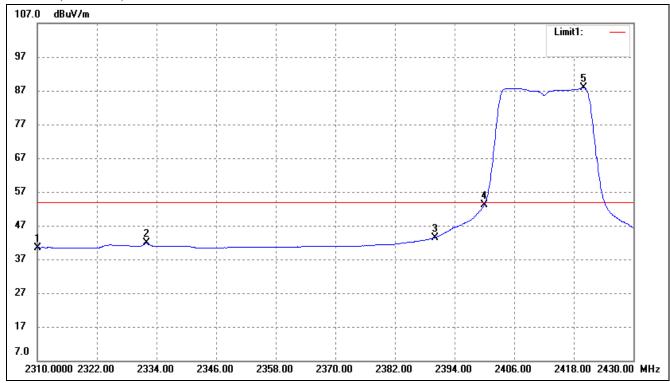
802.11g-Highest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|-----------|------------------|----------|----------|--------|------------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 2 | 2475.250 | 71.66 | 17.68 | 89.34 | / | / | Average Detector |
| | 2475.250 | 83.38 | 17.68 | 101.06 | / | / | Peak Detector |
| 1 | 2483.500 | Dolto - 2 | Delta = 39.32dBc | | 54.00 | -3.98 | Average Detector |
| | 2483.500 | Della – 3 | 9.32ubc | 61.74 | 74.00 | -12.26 | Peak Detector |
| 3 | 2500.000 | 24.42 | 17.86 | 42.28 | 54.00 | -11.72 | Average Detector |
| | 2500.000 | 37.49 | 17.85 | 55.34 | 74.00 | -18.66 | Peak Detector |



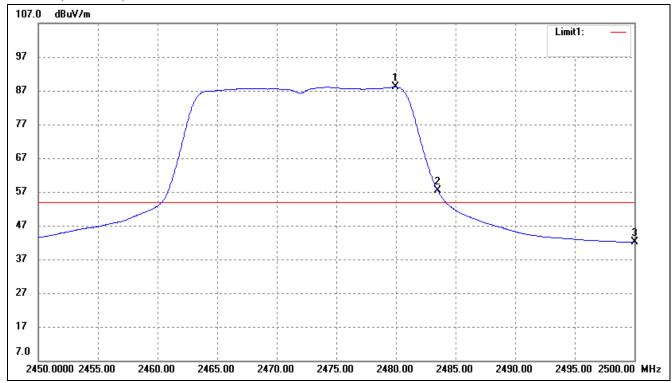
802.11n-HT20-Lowest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|----------|---------|----------|----------------|---------|------------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 24.16 | 16.34 | 40.50 | 54.00 | -13.50 | Average Detector |
| | 2310.000 | 35.59 | 16.34 | 51.93 | 74.00 | -22.07 | Peak Detector |
| 2 | 2331.960 | 25.27 | 16.53 | 41.80 | 54.00 | -12.20 | Average Detector |
| 3 | 2390.000 | 26.43 | 17.03 | 43.46 | 54.00 | -10.54 | Average Detector |
| | 2390.000 | 42.82 | 17.03 | 59.85 | 74.00 | -14.15 | Peak Detector |
| 4 | 2400.000 | 36.06 | 17.11 | 53.17 | Delta=34.61dBc | | Average Detector |
| 5 | 2420.040 | 70.52 | 17.26 | 87.78 | Delta=34 | i.oiabc | Average Detector |



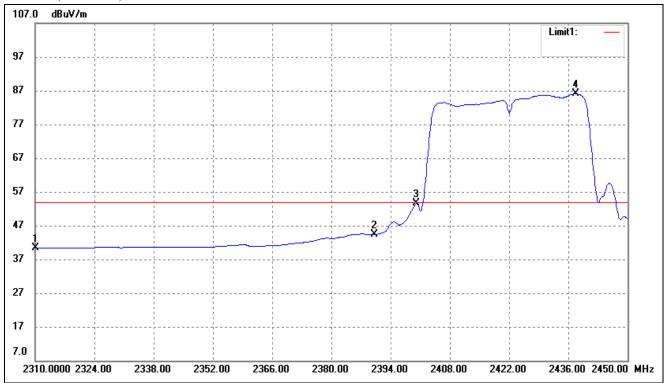
802.11n-HT20-Highest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|-----------|------------------|----------|----------|--------|------------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2479.950 | 70.32 | 17.71 | 88.03 | / | / | Average Detector |
| | 2468.850 | 81.33 | 17.61 | 98.94 | / | / | Peak Detector |
| 2 | 2483.500 | Dolto - 2 | Delta = 38.10dBc | | 54.00 | -4.07 | Average Detector |
| | 2483.500 | Della – 3 | 8.10dbc | 60.84 | 74.00 | -13.16 | Peak Detector |
| 3 | 2500.000 | 24.23 | 17.86 | 42.09 | 54.00 | -11.91 | Average Detector |
| | 2500.000 | 37.55 | 17.86 | 55.41 | 74.00 | -18.59 | Peak Detector |



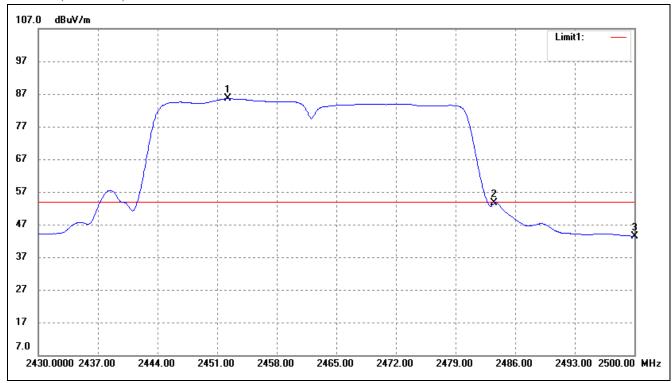
802.11n-HT40-Lowest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|----------|---------|----------|----------------|--------|------------------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 2310.000 | 24.13 | 16.34 | 40.47 | 54.00 | -13.53 | Average Detector |
| | 2310.000 | 34.54 | 16.34 | 50.88 | 74.00 | -23.12 | Peak Detector |
| 2 | 2390.000 | 27.26 | 17.03 | 44.29 | 54.00 | -9.71 | Average Detector |
| | 2390.000 | 39.52 | 17.03 | 56.55 | 74.00 | -17.45 | Peak Detector |
| 3 | 2400.000 | 36.41 | 17.11 | 53.52 | Delta=32.51dBc | | Average Detector |
| 4 | 2437.680 | 68.64 | 17.39 | 86.03 | Delta=32 | STube | Average Detector |



802.11n-HT40-Highest Bandedge



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark | |
|-----|-----------|----------------|------------------|----------|----------|--------|------------------|--|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 2452.960 | 68.04 | 17.51 | 85.55 | / | / | Average Detector | |
| | 2452.960 | 79.62 | 17.51 | 97.13 | / | / | Peak Detector | |
| 2 | 2483.500 | D-14 20 40 ID- | | 46.07 | 54.00 | -7.93 | Average Detector | |
| | 2483.500 | Della – 3 | Delta = 39.48dBc | | 74.00 | -16.35 | Peak Detector | |
| 3 | 2500.000 | 25.58 | 17.86 | 43.44 | 54.00 | -10.56 | Average Detector | |
| | 2500.000 | 37.16 | 17.86 | 55.02 | 74.00 | -18.98 | Peak Detector | |



10. Conducted Emissions

10.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

10.2 Test Equipment List and Details

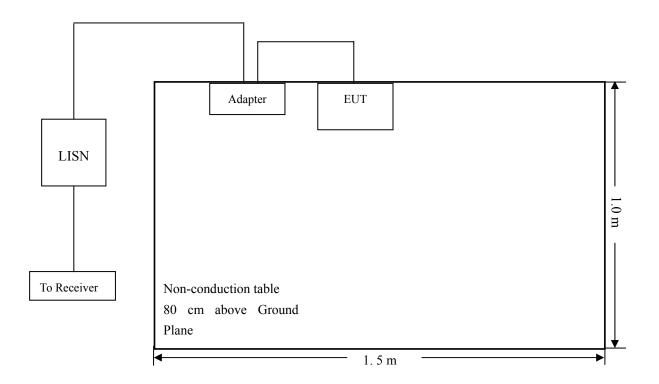
| Description | Manufacturer | Model | Serial Number | Cal. Date | Due. Date |
|-------------------|-----------------|----------|---------------|------------|------------|
| EMI Test Receiver | Rohde & Schwarz | ESPI | 101611 | 2014-05-28 | 2015-05-27 |
| L.I.S.N | Schwarz beck | NSLK8126 | 8126-224 | 2014-05-28 | 2015-05-27 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100911 | 2014-05-28 | 2015-05-27 |

10.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 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.

10.4 Basic Test Setup Block Diagram



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10.5 Environmental Conditions

| Temperature: | 25 °C |
|--------------------|-----------|
| Relative Humidity: | 52% |
| ATM Pressure: | 1012 mbar |

10.6 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 | |
| IF Bandwidth | 10 kHz |
| Quasi-Peak Adapter Bandwidth | 9 kHz |
| Quasi-Peak Adapter Mode | Normal |

10.7 Summary of Test Results/Plots

According to the data in section 9.8, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-6.60 dB at 0.4620 MHz in the Line mode, Average detector, 0.15-30MHz

10.8 Conducted Emissions Test Data



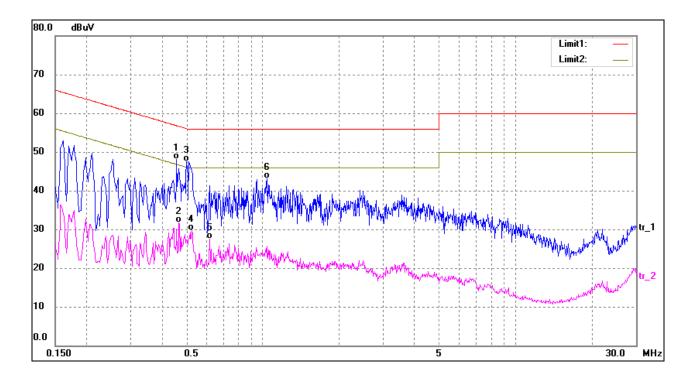
Plot of Conducted Emissions Test Data

EUT: Sero 7 LE
Tested Model: E2371

Operating Condition: Transmitting(WIFI)

Comment: AC 120V/60Hz, Adapter DC 5V/1.5A

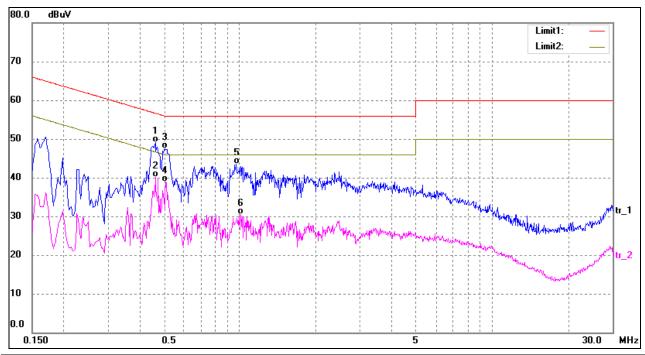
Test Specification: Neutral



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.4540 | 38.60 | 9.50 | 48.10 | 56.80 | -8.70 | QP |
| 2 | 0.4660 | 22.17 | 9.50 | 31.67 | 46.58 | -14.91 | AVG |
| 3 | 0.4980 | 38.07 | 9.50 | 47.57 | 56.03 | -8.46 | QP |
| 4 | 0.5220 | 20.18 | 9.52 | 29.70 | 46.00 | -16.30 | AVG |
| 5 | 0.6140 | 17.87 | 9.61 | 27.48 | 46.00 | -18.52 | AVG |
| 6 | 1.0380 | 33.15 | 10.00 | 43.15 | 56.00 | -12.85 | QP |



Test Specification: Line



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Detector |
|-----|-----------|---------|---------|--------|--------|--------|----------|
| | (MHz) | (dBuV) | (dB/m) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.4620 | 39.52 | 9.50 | 49.02 | 56.66 | -7.64 | QP |
| 2 | 0.4620 | 30.56 | 9.50 | 40.06 | 46.66 | -6.60 | AVG |
| 3 | 0.5020 | 38.05 | 9.50 | 47.55 | 56.00 | -8.45 | QP |
| 4 | 0.5100 | 29.39 | 9.51 | 38.90 | 46.00 | -7.10 | AVG |
| 5 | 0.9660 | 33.49 | 9.97 | 43.46 | 56.00 | -12.54 | QP |
| 6 | 1.0060 | 20.49 | 10.00 | 30.49 | 46.00 | -15.51 | AVG |

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