# FCC PART 15 SUBPART C
# IC RSS-210, ISSUE 8, DECEMBER 2010

# TEST AND MEASUREMENT REPORT

For

## GainSpan Corporation

3590 N. First Street, Suite 300,

San Jose, CA 95134, USA

**FCC ID: YOPGS2100MIP**
**IC: 9154A-GS2100MIP**

| **Report Type:** | **Product Type:** |
|---|---|
| CIIPC Report | 802.11 b/g/n (HT20) Module |

| | |
|---|---|
| **Prepared By:** | Chen Ge<br>Test Engineer |
| **Report Number:** | R1410298-247 |
| **Report Date:** | 2014-12-03 |
| **Reviewed By:** | Bo Li<br>RF Lead |

Bay Area Compliance Laboratories Corp.
1274 Anvilwood Avenue,
Sunnyvale, CA 94089, USA
Tel: (408) 732-9162
Fax: (408) 732-9164

# TABLE OF CONTENTS

# DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|---|---|---|---|
| 0 | R1410298-247 | CIIPC Report | 2014-12-03 |

# 1 General Description

## 1.1 Product Description for Equipment Under Test (EUT)

This test and measurement report was prepared on behalf of *GainSpan Corporation.*, and their product model: GS2100MIP, FCC ID: YOPGS2100MIP, IC: 9154A-GS2100MIP or the "EUT" as referred on this report. The EUT is a Low Power Wi-Fi Module with 802.11 b/g/n (HT-20).

## 1.2 Mechanical Description of EUT

The "EUT" measures approximately *"2.5"cm (L) x "1.8"cm (W) x "0.3"cm (H),* and weighs approximately *2.3*g

*The test data gathered are from typical production sample, serial number: 2992088001, provided by the manufacturer.*

## 1.3 Objective

This report is prepared on behalf of *GainSpan Corporation* in accordance with Part 2, Subpart J, and Part 15, Subparts B and C of the Federal Communication Commission's rules and IC RSS-210 Issue 8, Dec 2010.

The objective is to determine compliance with FCC Part 15.247 and IC RSS-210 rules for Output Power, Antenna Requirements, 6 dB Bandwidth, and power spectral density, 100 kHz Bandwidth of Band Edges Measurement, Spurious Emissions, Conducted and Radiated Spurious Emissions.

## 1.4 Related Submittal(s)/Grant(s)

N/A

## 1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.4-2009, 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 and FCC KDB 558074 D01 DTS Meas Guidance v03r01: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

## 1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The following calculation follows the procedures as set forth in clause 7.2.3, ETSI TR 100 028-1 V1.4.1 (2001-12), the expression of Uncertainty in Radiated RF Testing is in accordance to ISO/IEC 17025 and TR 100 028-1 V1.4.1 (2001-12).

The expanded Measurement Uncertainty value having a confidence factor of 95%, is within a range of 5.48 dB. This means that the value of conducted RF carrier power test will be within +/- 2.74 dB of the measuring radiated emissions power versus the expected value.
The expected value is defined as the power at the antenna of the Transmitter under Test.

## 1.7 Test Facility

Bay area compliance Laboratories Corp. (BACL) is:
1- An independent Commercial Test Laboratory accredited to **ISO 17025:2005** by **A2LA**, in the fields of: Electromagnetic Compatibility & Telecommunications covering Emissions, Immunity, Radio, RF Exposure, Safety and Telecom. This includes NEBS (Network Equipment Building System), Wireless RF, Telecommunications Terminal Equipment (TTE); Network Equipment; Information Technology Equipment (ITE); Medical Electrical Equipment; Industrial, Commercial, and Medical Test Equipment; Professional Audio and Video Equipment; Electronic (Digital) Products; Industrial and Scientific Instruments; Cabled Distribution Systems and Energy Efficiency Lighting.

2- An ENERGY STAR Recognized Laboratory, for the LM80 Testing, a wide variety of Luminares and Computers.

3- A NIST Designated Phase-I and Phase-II CAB including: ACMA (Australian Communication and Media Authority), BSMI (Bureau of Standards, Metrology and Inspection of Taiwan), IDA (Infocomm Development Authority of Singapore), IC(Industry Canada), Korea ( Ministry of Communications Radio Research Laboratory), NCC (Formerly DGT; Directorate General of Telecommunication of Chinese Taipei) OFTA (Office of the Telecommunications Authority of Hong Kong), Vietnam, VCCI - Voluntary Control Council for Interference of Japan and a designated EU CAB (Conformity Assessment Body) (Notified Body) for the EMC and R&TTE Directives.

4- A Product Certification Body accredited to **ISO Guide 65:1996** by **A2LA** to certify:
1- Unlicensed, Licensed radio frequency devices and Telephone Terminal Equipment for the FCC. Scope A1, A2, A3, A4, B1, B2, B3, B4 & C.
2. Radio Standards Specifications (RSS) in the Category I Equipment Standards List and All Broadcasting Technical Standards (BETS) in Category I Equipment Standards List for Industry Canada.
3. Radio Communication Equipment for Singapore.
4. Radio Equipment Specifications, GMDSS Marine Radio Equipment Specifications, and Fixed Network Equipment Specifications for Hong Kong.
5. Japan MIC Telecommunication Business Law (A1, A2) and Radio Law (B1, B2 and B3).
6. Audio/Video, Battery Charging Systems, Computers, Displays, Enterprise Servers, Imaging Equipment, Set-Top Boxes, Telephony, Televisions, Ceiling Fans, CFLs (Including GU24s),Decorative Light Strings, Integral LED Lamps, Luminaires, Residential Ventilating Fans.

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2009, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for Laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

# 2 System Test Configuration

## 2.1 Justification

The EUT was configured for testing according to ANSI C63.4-2009 and FCC KDB 558074 D01 DTS Meas Guidance v03r01 .

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power, peak power and PPSD across all data rates bandwidths, and modulations.

## 2.2 EUT Exercise Software

The test utility used was “Tera Term” was provided by GainSpan Corporation., and was verified Chen Ge to comply with the standard requirements being tested against.

## 2.3 Special Equipment

There were no special accessories were required, included, or intended for use with EUT during these tests.

## 2.4 Equipment Modifications

No modifications were made to the EUT.

## 2.5 Local Support Equipment

| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| Dell | Laptop | D650 | - |

## 2.6 EUT Internal Configuration Details

| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| GainSpan | Motherboard | GS2100M-Daughter Card Rev 0 | - |
| GainSpan | Module | GS2100MIP Rev 3.3 | - |

## 2.7 Interface Ports and Cables

| Cable Description | Length (m) | To | From |
|---|---|---|---|
| RS-232/USB | <1.0 | EUT | Laptop |

## 2.8 External I/O Cabling List and AC Cord

| Cable Description | Length (m) | From | To |
|---|---|---|---|
| RF Cable | <1.0 | EUT | PSA |

## 2.9 Power Supply List and Details

| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| PHIHONG | Switching Power Supply | PSA05R-033 | - |

# 3 Summary of Test Results

Results reported relate only to the product tested.

| FCC & IC Rules | Description of Test | Results |
|---|---|---|
| FCC §15.247(i), §2.1091<br>IC RSS-102 | RF Exposure | Compliant* |
| FCC §15.203<br>IC RSS-Gen §7.1.2 | Antenna Requirement | Compliant* |
| FCC §15.207(a)<br>IC RSS-Gen §7.2.4 | AC Line Conducted Emissions | Compliant* |
| FCC §15.247(d)<br>IC RSS-210 §A8.5 | Spurious Emissions at Antenna Port | Compliant* |
| FCC §15.209, §15.247(d)<br>IC RSS-210 §A8.5 | Radiated Spurious Emissions | Compliant |
| FCC §15.247(a)(2)<br>IC RSS-210 §A8.2 | 6 dB Emission Bandwidth | Compliant* |
| FCC §15.247(b)(3)<br>IC RSS-210 §A8.4 | Maximum Peak Output Power | Compliant |
| FCC §15.247(d)<br>IC RSS-210 §A8.5 | 100 kHz Bandwidth of Frequency Band Edge | Compliant* |
| FCC §15.247(e)<br>IC RSS-210 §A8.2(b) | Power Spectral Density | Compliant* |
| IC RSS-210 §2.3<br>& RSS-Gen §4.10 | Receiver Spurious Emission | Compliant* |

Compliant*: Please refer to original reports released by BACL (Report #: R1404032-247).

# 4 FCC §15.247(b) & IC RSS-210 §A8.4 – Peak Output Power Measurement

## 4.1 Applicable Standard

According to FCC §15.247(b) and IC RSS-210 §A8.4 (4) for systems using digital modulation in the 902~928 MHz, 2400~2483.5 MHz, and 5725~5850 MHz bands: 1 Watt.

## 4.2 Measurement Procedure

The measurements are base on FCC KDB 558074 D01 DTS Meas Guidance v03r01: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 9: Fundamental emission output power

## 4.3 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|---|---|---|---|---|---|
| Agilent | Spectrum Analyzer | E4446A | US44300386 | 2014-09-29 | 1 year |

**Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

## 4.4 Test Environmental Conditions

| | |
|---|---|
| **Temperature:** | 21 °C |
| **Relative Humidity:** | 32 % |
| **ATM Pressure:** | 101.84 kPa |

*The testing was performed by Chen Ge on 2014-11-11 in RF site.*

## 4.5 Test Results

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | FCC/IC Limit (dBm) | Margin (dB) | Power Settings |
|---|---|---|---|---|---|
| 802.11b mode | | | | | |
| Low | 2412 | 18.06 | 30 | -11.94 | 19 |
| Middle | 2437 | 17.57 | 30 | -12.43 | 18 |
| High | 2462 | 17.50 | 30 | -12.50 | 18 |
| 802.11g mode | | | | | |
| Low | 2412 | 19.18 | 30 | -10.82 | 25 |
| Middle | 2437 | 18.90 | 30 | -11.10 | 24 |
| High | 2462 | 18.29 | 30 | -11.71 | 23 |
| 802.11n-HT20 mode | | | | | |
| Low | 2412 | 19.13 | 30 | -10.87 | 25 |
| Middle | 2437 | 18.67 | 30 | -11.33 | 24 |
| High | 2462 | 18.68 | 30 | -11.32 | 24 |

Note: The output power levels are consistent with the original certified product.

# 5 FCC §15.247(d) & IC RSS-210 §A8.5 – Spurious Radiated Emissions

## 5.1 Applicable Standard

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz.

As per FCC §15.209(a) and RSS-210: Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

| Frequency (MHz) | Field Strength (micro volts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100** | 3 |
| 88 - 216 | 150** | 3 |
| 216 - 960 | 200** | 3 |
| Above 960 | 500 | 3 |

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090 – 0.110 | 16.42 – 16.423 | 960 – 1240 | 4. 5 – 5. 15 |
| 0.495 – 0.505 | 16.69475 – 16.69525 | 1300 – 1427 | 5. 35 – 5. 46 |
| 2.1735 – 2.1905 | 25.5 – 25.67 | 1435 – 1626.5 | 7.25 – 7.75 |
| 4.125 – 4.128 | 37.5 – 38.25 | 1645.5 – 1646.5 | 8.025 – 8.5 |
| 4.17725 – 4.17775 | 73 – 74.6 | 1660 – 1710 | 9.0 – 9.2 |
| 4.20725 – 4.20775 | 74.8 – 75.2 | 1718.8 – 1722.2 | 9.3 – 9.5 |
| 6.215 – 6.218 | 108 – 121.94 | 2200 – 2300 | 10.6 – 12.7 |
| 6.26775 – 6.26825 | 123 – 138 | 2310 – 2390 | 13.25 – 13.4 |
| 6.31175 – 6.31225 | 149.9 – 150.05 | 2483.5 – 2500 | 14.47 – 14.5 |
| 8.291 – 8.294 | 156.52475 – 156.52525 | 2690 – 2900 | 15.35 – 16.2 |
| 8.362 – 8.366 | 156.7 – 156.9 | 3260 – 3267 | 17.7 – 21.4 |
| 8.37625 – 8.38675 | 162.0125 –167.17 | 3.332 – 3.339 | 22.01 – 23.12 |
| 8.41425 – 8.41475 | 167.72 – 173.2 | 3 3458 – 3 358 | 23.6 – 24.0 |
| 12.29 – 12.293 | 240 – 285 | 3.600 – 4.400 | 31.2 – 31.8 |
| 12.51975 – 12.52025 | 322 – 335.4 | | 36.43 – 36.5 |
| 12.57675 – 12.57725 | 399.9 – 410 | | Above 38.6 |
| 13.36 – 13.41 | 608 – 614 | | |

As per FCC §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) (see §15.205(c).

## 5.2 Test Setup

The radiated emissions tests were performed in the 5-meter Chamber, using the setup in accordance with ANSI C63.4-2009. The specification used was the FCC 15 Subpart C and IC RSS-210 limits.

The spacing between the peripherals was 3 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

## 5.3 Test Procedure

For the radiated emissions test, the EUT host, and all support equipment power cords was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

The spectrum analyzer or receiver is set as:

Below 1000 MHz:

RBW = 100 kHz / VBW = 300 kHz / Sweep = Auto

Above 1000 MHz:

(1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
(2) Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

## 5.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to indicated Amplitude (Ai) reading. The basic equation is as follows:

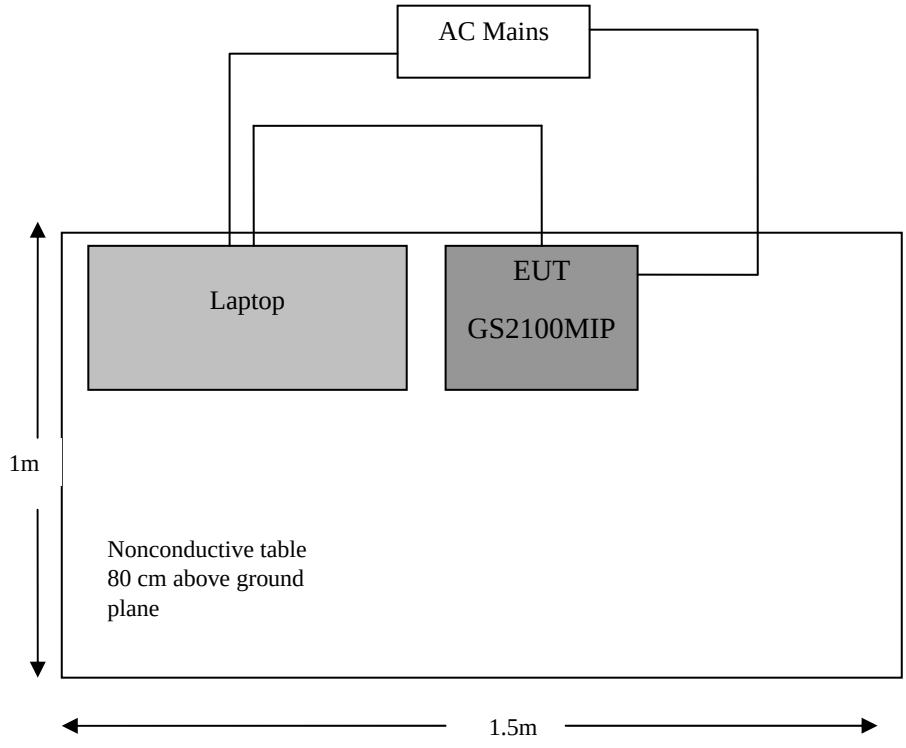
CA = Ai + AF + CL + Atten – Ga

For example, a corrected amplitude of 40.3 dBuV/m = Indicated Reading (32.5 dBuV) + Antenna Factor (+23.5dB) + Cable Loss (3.7 dB) + Attenuator (10 dB) - Amplifier Gain (29.4 dB)

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Corrected Amplitude - Limit

## 5.5 Test Setup Block Diagram



## 5.6 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|---|---|---|---|---|---|
| Sunol Science Corp | System Controller | SC99V | 122303-1 | N/R | N/R |
| Sunol Science Corp | Combination Antenna | JB3 | A020106-3 | 2014-06-18 | 1 year |
| Hewlett Packard | Pre-amplifier | 8447D | 2944A06639 | 2014-06-09 | 1 year |
| Agilent | Pre-amplifier | 8449B | 3008A01978 | 2014-02-04 | 1 year |
| WiseWave | Horn Antenna | ARH-4223-02 | 10555-01 | 2012-08-09 | 3 years |
| Agilent | Spectrum Analyzer | E4446A | US44300386 | 2014-09-29 | 1 year |
| EMCO | Horn Antenna | 3315 | 9511-4627 | 2014-10-17 | 1 year |
| Rohde & Schwarz | EMI Test Receiver | ESCI 1166.5950K03 | 100337 | 2014-03-28 | 1 year |

**Statement of Traceability: BACL** attests that all calibrations have been performed per the A2LA requirements, traceable to NIST.

## 5.7 Test Environmental Conditions

| | |
|---|---|
| **Temperature:** | 22 °C |
| **Relative Humidity:** | 36 % |
| **ATM Pressure:** | 101.55 kPa |

*The testing was performed by Chen Ge on 2014-11-12 in 5m chamber 3.*

## 5.8 Summary of Test Results

According to the data hereinafter, the EUT complied with the FCC Title 47, Part 15C and IC RSS-210 standard's radiated emissions limits, and had the worst margin of:

30-1000 MHz:

| Mode: Transmitting | | | |
|---|---|---|---|
| **Margin (dB)** | **Frequency (MHz)** | **Polarization (Horizontal/Vertical)** | **Mode** |
| -6.54 | 263.0868 | Vertical | 802.11n HT20 |

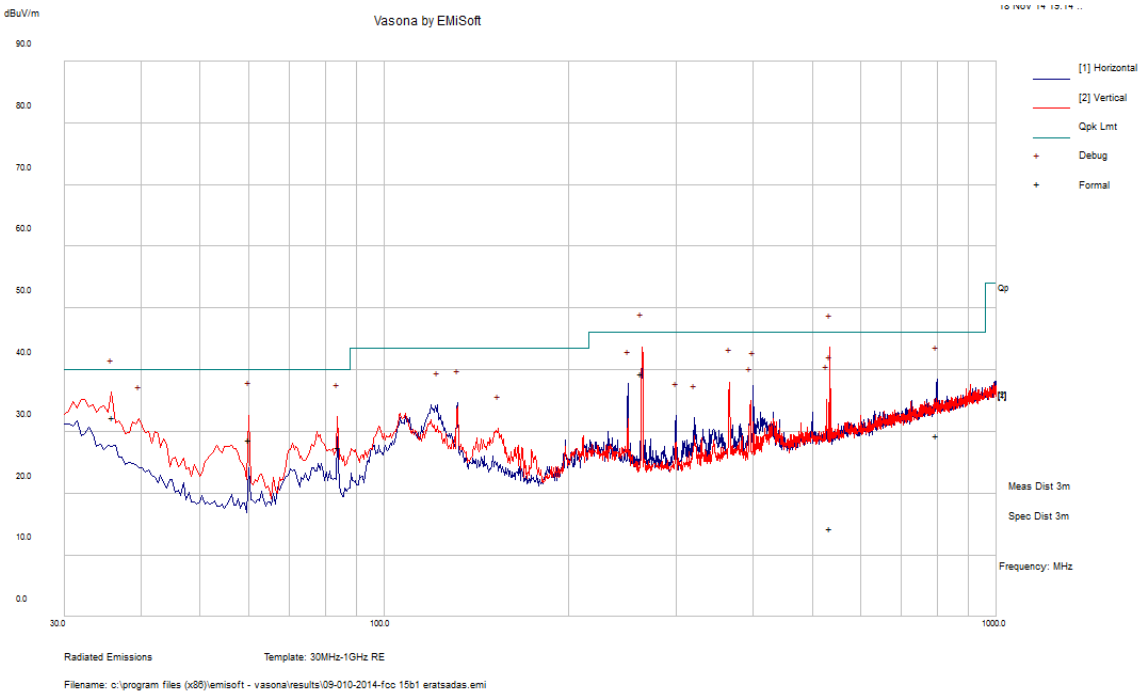
1 – 25 GHz:

| Mode: Transmitting | | | |
|---|---|---|---|
| **Margin (dB)** | **Frequency (MHz)** | **Polarization (Horizontal/Vertical)** | **Mode, Channel** |
| -3.574 | 2483.5 | Horizontal | 802.11n HT20, High Channel |

Please refer to the following table and plots for specific test result details

## 5.9 Radiated Emissions Test Data and Plots

### 1) 30 MHz – 1 GHz, Measured at 3 meters (Worst case)




| Frequency MHz | Cord. Reading (dBµV/m) | Measurement Type | Antenna Polarity (H/V) | Antenna Height (cm) | Turntable Azimuth (degrees) | Limit (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 263.0868 | 39.46 | QP | V | 173 | 163 | 46 | -6.54 |
| 534.192 | 14.36 | QP | V | 329 | 130 | 46 | -31.64 |
| 36.04625 | 32.33 | QP | V | 112 | 35 | 40 | -7.67 |
| 60.0515 | 28.75 | QP | V | 100 | 56 | 40 | -11.25 |
| 799.8473 | 29.44 | QP | H | 114 | 213 | 46 | -16.56 |
| 84.0535 | 27.47 | QP | V | 107 | 148 | 40 | -12.53 |

**2) 1–25 GHz, Measured at 3 meters**

802.11b mode

| Frequency (MHz) | S.A. Reading (dBµV) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre-Amp. (dB) | Cord. Reading (dBµV/m) | FCC/IC | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dBµV/m) | Margin (dB) | |
| Low Channel 2412 MHz, measured at 3 meters | | | | | | | | | | | |
| 2412 | 57.83 | 210 | 100 | V | 28.197 | 2.919 | 0 | 88.946 | - | - | Peak |
| 2412 | 62.35 | 159 | 100 | H | 28.197 | 2.919 | 0 | 93.466 | - | - | Peak |
| 2412 | 52.85 | 210 | 100 | V | 28.197 | 2.919 | 0 | 83.966 | - | - | Ave |
| 2412 | 61.57 | 159 | 100 | H | 28.197 | 2.919 | 0 | 92.686 | - | - | Ave |
| 2390 | 29.42 | 185 | 100 | V | 28.197 | 2.919 | 0 | 60.536 | 74 | -13.464 | Peak |
| 2390 | 28.89 | 127 | 100 | H | 28.197 | 2.919 | 0 | 60.006 | 74 | -13.994 | Peak |
| 2390 | 14.45 | 185 | 100 | V | 28.197 | 2.919 | 0 | 45.566 | 54 | -8.434 | Ave |
| 2390 | 15.34 | 127 | 100 | H | 28.197 | 2.919 | 0 | 46.456 | 54 | -7.544 | Ave |
| 4824 | 50.69 | 96 | 100 | V | 33.354 | 4.241 | 34.29 | 53.995 | 74 | -20.005 | Peak |
| 4824 | 51.63 | 165 | 101 | H | 33.354 | 4.241 | 34.29 | 54.935 | 74 | -19.065 | Peak |
| 4824 | 42.86 | 96 | 100 | V | 33.354 | 4.241 | 34.29 | 46.165 | 54 | -7.835 | Ave |
| 4824 | 43.46 | 165 | 101 | H | 33.354 | 4.241 | 34.29 | 46.765 | 54 | -7.235 | Ave |
| 7236 | 48.38 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 56.801 | 68.946 | -12.145 | Peak |
| 7236 | 47.79 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 56.211 | 73.466 | -17.255 | Peak |
| 7236 | 33.1 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 41.521 | 63.966 | -22.445 | Ave |
| 7236 | 32.94 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 41.361 | 72.686 | -31.325 | Ave |
| 9648 | 48.55 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 58.754 | 68.946 | -10.192 | Peak |
| 9648 | 48.89 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 59.094 | 73.466 | -14.372 | Peak |
| 9648 | 34.04 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 44.244 | 63.966 | -19.722 | Ave |
| 9648 | 34.09 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 44.294 | 72.686 | -28.392 | Ave |
| Middle Channel 2437 MHz, measured at 3 meters | | | | | | | | | | | |
| 2437 | 56.85 | 210 | 107 | V | 28.197 | 2.919 | 0 | 87.966 | - | - | Peak |
| 2437 | 61.91 | 159 | 100 | H | 28.197 | 2.919 | 0 | 93.026 | - | - | Peak |
| 2437 | 52.83 | 210 | 107 | V | 28.197 | 2.919 | 0 | 83.946 | - | - | Ave |
| 2437 | 58.72 | 159 | 100 | H | 28.197 | 2.919 | 0 | 89.836 | - | - | Ave |
| 4874 | 50.54 | 71 | 100 | V | 33.354 | 4.241 | 34.29 | 53.845 | 74 | -20.155 | Peak |
| 4874 | 51.48 | 128 | 100 | H | 33.354 | 4.241 | 34.29 | 54.785 | 74 | -19.215 | Peak |
| 4874 | 41.38 | 71 | 100 | V | 33.354 | 4.241 | 34.29 | 44.685 | 54 | -9.315 | Ave |
| 4874 | 42.7 | 128 | 100 | H | 33.354 | 4.241 | 34.29 | 46.005 | 54 | -7.995 | Ave |
| 7311 | 46.41 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 54.831 | 74 | -19.169 | Peak |
| 7311 | 46.67 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 55.091 | 74 | -18.909 | Peak |
| 7311 | 33.07 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 41.491 | 54 | -12.509 | Ave |
| 7311 | 33.14 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 41.561 | 54 | -12.439 | Ave |
| 9748 | 48.68 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 58.884 | 67.966 | -9.082 | Peak |
| 9748 | 48.4 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 58.604 | 73.026 | -14.422 | Peak |
| 9748 | 34.09 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 44.294 | 63.946 | -19.652 | Ave |
| 9748 | 33.54 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 43.744 | 69.836 | -26.092 | Ave |

| Frequency (MHz) | S.A. Reading (dBµV) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre-Amp. (dB) | Cord. Reading (dBµV/m) | FCC/IC | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dBµV/m) | Margin (dB) | |
| High Channel 2462 MHz, measured at 3 meters | | | | | | | | | | | |
| 2462 | 56.94 | 68 | 100 | V | 28.197 | 2.919 | 0 | 88.056 | - | - | Peak |
| 2462 | 63.46 | 159 | 100 | H | 28.197 | 2.919 | 0 | 94.576 | - | - | Peak |
| 2462 | 53.13 | 68 | 100 | V | 28.197 | 2.919 | 0 | 84.246 | - | - | Ave |
| 2462 | 60.11 | 159 | 100 | H | 28.197 | 2.919 | 0 | 91.226 | - | - | Ave |
| 2483.5 | 28.96 | 43 | 100 | V | 28.197 | 2.919 | 0 | 60.076 | 74 | -13.924 | Peak |
| 2483.5 | 30.51 | 127 | 100 | H | 28.197 | 2.919 | 0 | 61.626 | 74 | -12.374 | Peak |
| 2483.5 | 14.87 | 43 | 100 | V | 28.197 | 2.919 | 0 | 45.986 | 54 | -8.014 | Ave |
| 2483.5 | 16.39 | 127 | 100 | H | 28.197 | 2.919 | 0 | 47.506 | 54 | -6.494 | Ave |
| 4924 | 50.29 | 69 | 100 | V | 33.354 | 4.241 | 34.29 | 53.595 | 74 | -20.405 | Peak |
| 4924 | 51.35 | 161 | 100 | H | 33.354 | 4.241 | 34.29 | 54.655 | 74 | -19.345 | Peak |
| 4924 | 41.34 | 69 | 100 | V | 33.354 | 4.241 | 34.29 | 44.645 | 54 | -9.355 | Ave |
| 4924 | 42.41 | 161 | 100 | H | 33.354 | 4.241 | 34.29 | 45.715 | 54 | -8.285 | Ave |
| 7386 | 47.09 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 55.511 | 74 | -18.489 | Peak |
| 7386 | 48.68 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 57.101 | 74 | -16.899 | Peak |
| 7386 | 33.68 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 42.101 | 54 | -11.899 | Ave |
| 7386 | 33.76 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 42.181 | 54 | -11.819 | Ave |
| 9848 | 48.38 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 58.584 | 68.056 | -9.472 | Peak |
| 9848 | 49.02 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 59.224 | 74.576 | -15.352 | Peak |
| 9848 | 34.86 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 45.064 | 64.246 | -19.182 | Ave |
| 9848 | 34.96 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 45.164 | 71.226 | -26.062 | Ave |

802.11g mode

| Frequency (MHz) | S.A. Reading (dBµV) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre-Amp. (dB) | Cord. Reading (dBµV/m) | FCC/IC | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dBµV/m) | Margin (dB) | |
| Low Channel 2412 MHz, measured at 3 meters | | | | | | | | | | | |
| 2412 | 55.13 | 210 | 109 | V | 28.197 | 2.919 | 0 | 86.246 | - | - | Peak |
| 2412 | 61.06 | 161 | 100 | H | 28.197 | 2.919 | 0 | 92.176 | - | - | Peak |
| 2412 | 44.42 | 210 | 109 | V | 28.197 | 2.919 | 0 | 75.536 | - | - | Ave |
| 2412 | 50.7 | 161 | 100 | H | 28.197 | 2.919 | 0 | 81.816 | - | - | Ave |
| 2390 | 28.25 | 185 | 109 | V | 28.197 | 2.919 | 0 | 59.366 | 74 | -14.634 | Peak |
| 2390 | 28.63 | 129 | 100 | H | 28.197 | 2.919 | 0 | 59.746 | 74 | -14.254 | Peak |
| 2390 | 13.79 | 185 | 109 | V | 28.197 | 2.919 | 0 | 44.906 | 54 | -9.094 | Ave |
| 2390 | 14 | 129 | 100 | H | 28.197 | 2.919 | 0 | 45.116 | 54 | -8.884 | Ave |
| 4824 | 50.47 | 98 | 100 | V | 33.354 | 4.241 | 34.29 | 53.775 | 74 | -20.225 | Peak |
| 4824 | 51.76 | 157 | 100 | H | 33.354 | 4.241 | 34.29 | 55.065 | 74 | -18.935 | Peak |
| 4824 | 40.94 | 98 | 100 | V | 33.354 | 4.241 | 34.29 | 44.245 | 54 | -9.755 | Ave |
| 4824 | 43.32 | 157 | 100 | H | 33.354 | 4.241 | 34.29 | 46.625 | 54 | -7.375 | Ave |
| 7236 | 47.16 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 55.581 | 66.246 | -10.665 | Peak |
| 7236 | 46.95 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 55.371 | 72.176 | -16.805 | Peak |
| 7236 | 33.53 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 41.951 | 55.536 | -13.585 | Ave |
| 7236 | 33.48 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 41.901 | 61.816 | -19.915 | Ave |
| 9648 | 48.44 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 58.644 | 66.246 | -7.602 | Peak |
| 9648 | 48.86 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 59.064 | 72.176 | -13.112 | Peak |
| 9648 | 34.42 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 44.624 | 55.536 | -10.912 | Ave |
| 9648 | 34.53 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 44.734 | 61.816 | -17.082 | Ave |
| Middle Channel 2437 MHz, measured at 3 meters | | | | | | | | | | | |
| 2437 | 56.03 | 210 | 107 | V | 28.197 | 2.919 | 0 | 87.146 | - | - | Peak |
| 2437 | 62.69 | 159 | 100 | H | 28.197 | 2.919 | 0 | 93.806 | - | - | Peak |
| 2437 | 45.49 | 210 | 107 | V | 28.197 | 2.919 | 0 | 76.606 | - | - | Ave |
| 2437 | 52.12 | 159 | 100 | H | 28.197 | 2.919 | 0 | 83.236 | - | - | Ave |
| 4874 | 50.54 | 73 | 100 | V | 33.354 | 4.241 | 34.29 | 53.845 | 74 | -20.155 | Peak |
| 4874 | 51.66 | 125 | 100 | H | 33.354 | 4.241 | 34.29 | 54.965 | 74 | -19.035 | Peak |
| 4874 | 40.48 | 73 | 100 | V | 33.354 | 4.241 | 34.29 | 43.785 | 54 | -10.215 | Ave |
| 4874 | 43.51 | 125 | 100 | H | 33.354 | 4.241 | 34.29 | 46.815 | 54 | -7.185 | Ave |
| 7311 | 46.84 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 55.261 | 74 | -18.739 | Peak |
| 7311 | 47.29 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 55.711 | 74 | -18.289 | Peak |
| 7311 | 33.18 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 41.601 | 54 | -12.399 | Ave |
| 7311 | 33.12 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 41.541 | 54 | -12.459 | Ave |
| 9748 | 48 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 58.204 | 67.146 | -8.942 | Peak |
| 9748 | 48.11 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 58.314 | 73.806 | -15.492 | Peak |
| 9748 | 34.52 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 44.724 | 56.606 | -11.882 | Ave |
| 9748 | 34.43 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 44.634 | 63.236 | -18.602 | Ave |

| Frequency (MHz) | S.A. Reading (dBµV) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre-Amp. (dB) | Cord. Reading (dBµV/m) | FCC/IC | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dBµV/m) | Margin (dB) | |
| High Channel 2462 MHz, measured at 3 meters | | | | | | | | | | | |
| 2462 | 57.92 | 68 | 100 | V | 28.197 | 2.919 | 0 | 89.036 | - | - | Peak |
| 2462 | 64.47 | 159 | 100 | H | 28.197 | 2.919 | 0 | 95.586 | - | - | Peak |
| 2462 | 46.73 | 68 | 100 | V | 28.197 | 2.919 | 0 | 77.846 | - | - | Ave |
| 2462 | 53.83 | 159 | 100 | H | 28.197 | 2.919 | 0 | 84.946 | - | - | Ave |
| 2483.5 | 30.21 | 43 | 100 | V | 28.197 | 2.919 | 0 | 61.326 | 74 | -12.674 | Peak |
| 2483.5 | 35.11 | 127 | 100 | H | 28.197 | 2.919 | 0 | 66.226 | 74 | -7.774 | Peak |
| 2483.5 | 14.97 | 43 | 100 | V | 28.197 | 2.919 | 0 | 46.086 | 54 | -7.914 | Ave |
| 2483.5 | 18.38 | 127 | 100 | H | 28.197 | 2.919 | 0 | 49.496 | 54 | -4.504 | Ave |
| 4924 | 51.18 | 74 | 100 | V | 33.354 | 4.241 | 34.29 | 54.485 | 74 | -19.515 | Peak |
| 4924 | 52.44 | 157 | 100 | H | 33.354 | 4.241 | 34.29 | 55.745 | 74 | -18.255 | Peak |
| 4924 | 41.93 | 74 | 100 | V | 33.354 | 4.241 | 34.29 | 45.235 | 54 | -8.765 | Ave |
| 4924 | 45.03 | 157 | 100 | H | 33.354 | 4.241 | 34.29 | 48.335 | 54 | -5.665 | Ave |
| 7386 | 48.14 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 56.561 | 74 | -17.439 | Peak |
| 7386 | 48.13 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 56.551 | 74 | -17.449 | Peak |
| 7386 | 33.74 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 42.161 | 54 | -11.839 | Ave |
| 7386 | 33.68 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 42.101 | 54 | -11.899 | Ave |
| 9848 | 49.53 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 59.734 | 69.036 | -9.302 | Peak |
| 9848 | 48.95 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 59.154 | 75.586 | -16.432 | Peak |
| 9848 | 34.93 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 45.134 | 57.846 | -12.712 | Ave |
| 9848 | 34.75 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 44.954 | 64.946 | -19.992 | Ave |

802.11n HT20 mode

| Frequency (MHz) | S.A. Reading (dBµV) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre-Amp. (dB) | Cord. Reading (dBµV/m) | FCC/IC | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dBµV/m) | Margin (dB) | |
| Low Channel 2412 MHz, measured at 3 meters | | | | | | | | | | | |
| 2412 | 54.69 | 210 | 100 | V | 28.197 | 2.919 | 0 | 85.806 | - | - | Peak |
| 2412 | 60.99 | 161 | 100 | H | 28.197 | 2.919 | 0 | 92.106 | - | - | Peak |
| 2412 | 43.55 | 210 | 100 | V | 28.197 | 2.919 | 0 | 74.666 | - | - | Ave |
| 2412 | 50.17 | 161 | 100 | H | 28.197 | 2.919 | 0 | 81.286 | - | - | Ave |
| 2390 | 28.3 | 185 | 100 | V | 28.197 | 2.919 | 0 | 59.416 | 74 | -14.584 | Peak |
| 2390 | 27.95 | 129 | 100 | H | 28.197 | 2.919 | 0 | 59.066 | 74 | -14.934 | Peak |
| 2390 | 13.86 | 185 | 100 | V | 28.197 | 2.919 | 0 | 44.976 | 54 | -9.024 | Ave |
| 2390 | 14.26 | 129 | 100 | H | 28.197 | 2.919 | 0 | 45.376 | 54 | -8.624 | Ave |
| 4824 | 51.41 | 99 | 100 | V | 33.354 | 4.241 | 34.29 | 54.715 | 74 | -19.285 | Peak |
| 4824 | 51.78 | 157 | 100 | H | 33.354 | 4.241 | 34.29 | 55.085 | 74 | -18.915 | Peak |
| 4824 | 41.52 | 99 | 100 | V | 33.354 | 4.241 | 34.29 | 44.825 | 54 | -9.175 | Ave |
| 4824 | 43.63 | 157 | 100 | H | 33.354 | 4.241 | 34.29 | 46.935 | 54 | -7.065 | Ave |
| 7236 | 47.93 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 56.351 | 65.806 | -9.455 | Peak |
| 7236 | 47.75 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 56.171 | 72.106 | -15.935 | Peak |
| 7236 | 33.61 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 42.031 | 54.666 | -12.635 | Ave |
| 7236 | 33.43 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 41.851 | 61.286 | -19.435 | Ave |
| 9648 | 49.34 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 59.544 | 65.806 | -6.262 | Peak |
| 9648 | 49.39 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 59.594 | 72.106 | -12.512 | Peak |
| 9648 | 34.43 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 44.634 | 54.666 | -10.032 | Ave |
| 9648 | 34.51 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 44.714 | 61.286 | -16.572 | Ave |
| Middle Channel 2437 MHz, measured at 3 meters | | | | | | | | | | | |
| 2437 | 56.14 | 210 | 108 | V | 28.197 | 2.919 | 0 | 87.256 | - | - | Peak |
| 2437 | 62.05 | 161 | 100 | H | 28.197 | 2.919 | 0 | 93.166 | - | - | Peak |
| 2437 | 45.6 | 210 | 108 | V | 28.197 | 2.919 | 0 | 76.716 | - | - | Ave |
| 2437 | 51.79 | 161 | 100 | H | 28.197 | 2.919 | 0 | 82.906 | - | - | Ave |
| 4874 | 51.01 | 49 | 100 | V | 33.354 | 4.241 | 34.29 | 54.315 | 74 | -19.685 | Peak |
| 4874 | 51.6 | 125 | 100 | H | 33.354 | 4.241 | 34.29 | 54.905 | 74 | -19.095 | Peak |
| 4874 | 41.96 | 49 | 100 | V | 33.354 | 4.241 | 34.29 | 45.265 | 54 | -8.735 | Ave |
| 4874 | 44.07 | 125 | 100 | H | 33.354 | 4.241 | 34.29 | 47.375 | 54 | -6.625 | Ave |
| 7311 | 47.16 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 55.581 | 74 | -18.419 | Peak |
| 7311 | 47.22 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 55.641 | 74 | -18.359 | Peak |
| 7311 | 33.14 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 41.561 | 54 | -12.439 | Ave |
| 7311 | 33.18 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 41.601 | 54 | -12.399 | Ave |
| 9748 | 48.89 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 59.094 | 67.256 | -8.162 | Peak |
| 9748 | 48.7 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 58.904 | 73.166 | -14.262 | Peak |
| 9748 | 34.54 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 44.744 | 56.716 | -11.972 | Ave |
| 9748 | 34.42 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 44.624 | 62.906 | -18.282 | Ave |

| Frequency (MHz) | S.A. Reading (dBµV) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre-Amp. (dB) | Cord. Reading (dBµV/m) | FCC/IC | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dBµV/m) | Margin (dB) | |
| High Channel 2462 MHz, measured at 3 meters | | | | | | | | | | | |
| 2462 | 59.24 | 166 | 104 | V | 28.197 | 2.919 | 0 | 90.356 | - | - | Peak |
| 2462 | 64.32 | 159 | 100 | H | 28.197 | 2.919 | 0 | 95.436 | - | - | Peak |
| 2462 | 48.28 | 166 | 104 | V | 28.197 | 2.919 | 0 | 79.396 | - | - | Ave |
| 2462 | 53.34 | 159 | 100 | H | 28.197 | 2.919 | 0 | 84.456 | - | - | Ave |
| 2483.5 | 33.55 | 141 | 104 | V | 28.197 | 2.919 | 0 | 64.666 | 74 | -9.334 | Peak |
| 2483.5 | 39.25 | 127 | 100 | H | 28.197 | 2.919 | 0 | 70.366 | 74 | -3.634 | Peak |
| 2483.5 | 16.25 | 141 | 104 | V | 28.197 | 2.919 | 0 | 47.366 | 54 | -6.634 | Ave |
| 2483.5 | 19.31 | 127 | 100 | H | 28.197 | 2.919 | 0 | 50.426 | 54 | -3.574 | Ave |
| 4924 | 51.22 | 68 | 100 | V | 33.354 | 4.241 | 34.29 | 54.525 | 74 | -19.475 | Peak |
| 4924 | 52.13 | 160 | 100 | H | 33.354 | 4.241 | 34.29 | 55.435 | 74 | -18.565 | Peak |
| 4924 | 38.78 | 68 | 100 | V | 33.354 | 4.241 | 34.29 | 42.085 | 54 | -11.915 | Ave |
| 4924 | 42.95 | 160 | 100 | H | 33.354 | 4.241 | 34.29 | 46.255 | 54 | -7.745 | Ave |
| 7386 | 48.7 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 57.121 | 74 | -16.879 | Peak |
| 7386 | 47.39 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 55.811 | 74 | -18.189 | Peak |
| 7386 | 33.29 | 0 | 100 | V | 37.356 | 5.495 | 34.43 | 41.711 | 54 | -12.289 | Ave |
| 7386 | 33.22 | 0 | 100 | H | 37.356 | 5.495 | 34.43 | 41.641 | 54 | -12.359 | Ave |
| 9848 | 49.26 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 59.464 | 70.356 | -10.892 | Peak |
| 9848 | 48.82 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 59.024 | 75.436 | -16.412 | Peak |
| 9848 | 34.56 | 0 | 100 | V | 38.913 | 6.241 | 34.95 | 44.764 | 59.396 | -14.632 | Ave |
| 9848 | 34.51 | 0 | 100 | H | 38.913 | 6.241 | 34.95 | 44.714 | 64.456 | -19.742 | Ave |