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FCC ID: SOV8700B
IC ID: 5511A-8700B
Report No.: FCCIC11-RTE070506
Page: 1 of 71

TEST REPORT

Application No.: FCC&IC11-RTE060106RF
Applicant: ARCHOS S.A.
Address of Applicant: 12 Rue Ampere 91430 Igny, France
FCC ID: SOV8700B
IC ID: 5511A-8700B
Fundamental Carrier Frequency : 2.412GHz to 2.462GHz

Equipment Under Test (EUT):

EUT Name: A70S2 Internet Tablet
Item No.: 8700B
Serial No.: Not supplied by client
Standards: FCC PART 15 Subpart C: 2008
RSS-210 Issue 8 2010
RSS-Gen Issue 3 2010
Date of Receipt: 01 June. 2011
Date of Test: 03 June. 2011 to 27 June. 2011
Date of Issue: 05 July. 2011

| | |
|----------------------|--------------|
| Test Result : | PASS* |
|----------------------|--------------|

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

Authorized Signature:



Kevin Yu
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO Technology Approvals or testing done by EBO Technology Approvals in connection with, distribution or use of the product described in this report must be approved by EBO Technology Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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1 Test Summary

| Test | Test Requirement | Standard Paragraph | Result |
|---|------------------------------|---|--------|
| Conducted Emissions | FCC PART 15:2008 | Section 15.207 | PASS |
| | RSS-Gen:2010 | Section 7.2.2 | |
| Radiated Emissions | FCC PART 15:2008 | Section 15.205/15.209 | PASS |
| | RSS-210:2010 RSS-Gen:2010 | A 8.5 Secion 7.2.3 | |
| Maximum Peak Output Power | FCC PART 15:2008 | Section 15.247 (b) | PASS |
| | RSS-210:2010 | A 8.4(2) | |
| 6dB Occupied Bandwidth | FCC PART 15:2008 | Section 15.247 (a2) | PASS |
| | RSS-210:2010 | A 8.2(a) | |
| 99% Occupied Bandwidth | RSS-Gen:2010 | Section 4.6 | PASS |
| Band Edges and Conducted Spurious Emissions | FCC PART 15:2008 | Section 15.247(d) | PASS |
| | RSS-210:2010 | A 8.5 | |
| Power Spectral Density Measurement | FCC PART 15:2008 | Section 15.247 (e) | PASS |
| | RSS-210:2010 | A 8.2(b) | |
| Antenna requirement | FCC PART 15:2008 | Section 15.247 (b) | PASS |
| RF Exposure Compliance Requirement | FCC PART 15:2008 | 15.247(b)(4)& 1) c) D01 Mobile Portable RF Exposure v04 | PASS |
| | RSS-102:2010 | Section 2.5.1 | |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

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2 Contents

| | Page |
|---|------|
| 1 TEST SUMMARY | 2 |
| 2 CONTENTS | 3 |
| 3 GENERAL INFORMATION | 5 |
| 3.1 CLIENT INFORMATION | 5 |
| 3.2 GENERAL DESCRIPTION OF E.U.T | 5 |
| 3.3 TEST SUPPORTING SYSTEM DETAILS | 6 |
| 3.4 TEST LOCATION | 6 |
| 3.5 TEST FACILITY | 7 |
| 3.6 MEASUREMENT UNCERTAINTY | 7 |
| 3.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER | 7 |
| 4 EQUIPMENT USED DURING TEST | 8 |
| 5 TEST RESULTS | 9 |
| 5.1 CONDUCTED EMISSIONS | 9 |
| 5.1.1 Test Setup | 10 |
| 5.1.2 Test Procedure | 10 |
| 5.1.3 Measurement Data | 10 |
| 5.2 RADIATED EMISSIONS | 13 |
| 5.2.1 Test Setup | 14 |
| 5.2.2 Test Procedure | 15 |
| 5.2.3 Measurement Data | 16 |
| 5.3 MAXIMUM PEAK OUTPUT POWER | 31 |
| 5.3.1 Test Setup | 31 |
| 5.3.2 Test Procedure | 31 |
| 5.3.3 Measurement Data | 32 |
| 5.4 6dB OCCUPIED BANDWIDTH | 36 |
| 5.4.1 Test Setup | 36 |
| 5.4.2 Test Procedure | 36 |
| 5.4.3 Measurement Data | 37 |
| 5.5 99% OCCUPIED BANDWIDTH | 44 |
| 5.5.1 Test Setup | 44 |
| 5.5.2 Test Procedure | 44 |
| 5.5.3 Measurement Data | 45 |
| 5.6 BAND EDGES AND CONDUCTED SPURIOUS EMISSIONS MEASUREMENT | 52 |
| 5.6.1 Test Setup | 52 |
| 5.6.2 Test Procedure | 52 |
| 5.6.3 Measurement Data | 52 |
| 5.7 POWER SPECTRAL DENSITY MEASUREMENT | 62 |
| 5.7.1 Test Setup | 62 |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

| | | |
|-------|-------------------------------|----|
| 5.7.2 | <i>Test Procedure</i> | 62 |
| 5.7.3 | <i>Measurement Data</i> | 63 |
| 5.8 | ANTENNA REQUIREMENT..... | 70 |
| 5.9 | RF EXPOSURE COMPLIANCE..... | 71 |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

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3 General Information

3.1 Client Information

Applicant: ARCHOS S.A.
Address of Applicant: 12 Rue Ampere 91430 Igny, France

3.2 General Description of E.U.T.

Equipment Under Test: Wireless Data Transmission (WiFi)
Trade Name: ARCHOS
Type Designation: A70S2 Internet tablet
Model Number: 8700B
Standards: IEEE802.11b/g/n
Type of modulation(802.11b): DSSS(DBPSK,DQPSK,CCK)
Type of modulation(802.11g): OFDM (BPSK,QPSK,16QAM,64QAM)
Type of modulation(802.11n): OFDM (BPSK,QPSK,16QAM,64QAM)
Max Data Rate: 11Mbps(802.11b),54Mbps(802.11g), 65Mbps(802.11n)
Conducted Power: 12.53dBm(802.11b), 11.38dBm(802.11g), 10.10dBm(802.11n),
Number of Channels: 11
Operation Frequency: 2412 ~2462MHz
Antenna Designation: Internal Antenna soldering on the PCB
Antenna Gain: 0dBi
Power Supply: AC/DC Adapter
Model:MD-TRC0620DC
Input:AC 100-240V 50/60Hz 0.3A
Output:DC 5.0V 1.5A
Date of Test: 03 June. 2011 to 27 June. 2011

FCC ID: SOV 8700B

IC ID: 5511A-8700B

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| Channel | Frequency(MHz) | Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|---------|----------------|
| 01 | 2412 | 05 | 2432 | 09 | 2452 |
| 02 | 2417 | 06 | 2437 | 10 | 2457 |
| 03 | 2422 | 07 | 2442 | 11 | 2462 |
| 04 | 2427 | 08 | 2447 | | |

Note:

Regards to the frequency band over 10MHz, the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.

So the there channel as follow:

Lowest channel: 2412MHz

Middle channel: 2437MHz

Highest channel: 2462 MHz

3.3 Test Supporting System Details

| Equipment Name | Model No. | Manufacturer | FCC Status |
|-------------------|-----------|--------------|------------|
| Notebook Computer | nc4000 | HP | DOC |
| Monitor | TFT1780PS | AOV | DOC |
| Keyboard | JME7053 | Lenovo | DOC |
| Mouse | N/A | Lenovo | DOC |

3.4 Test Location

All tests were sub-contracted to:

ATC Lab Co., Ltd (Guangdong, China).

205#, Yingfeng Building, Ronggu Rd, Foshan, Guangdong, China (528305)

Phone: 0757-23612690

Fax: 0757-23612537

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IC ID: 5511A-8700B

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3.5 Test Facility

FCC-Registration No.: 415467

ATC Lab Co., Ltd (Guangdong, China) 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. Registration 415467. Listing date October 10, 2008.

IC-Registration No.: 7949A

The 3m Alternate Test Site of ATC Lab Co., Ltd (Guangdong, China) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7949A on May. 25th, 2011.

3.6 Measurement Uncertainty

- of +/- 3×10^{-9} for 6dB and 99% Bandwidth Measurement
- of +/- 0.8 dB for Peak Output Power Measurement
- of +/- 0.8 dB for Band Edge RF Conducted Measurement
- of +/- 0.8 dB for Spurious RF Conducted Emission Measurement
- of +/- 0.8 dB for Power Density
- of +/- 4.5 dB for Radiated Emissions
- of +/- 2.3 dB for Conducted Emissions

3.7 Other Information Requested by the Customer

None

FCC ID: SOV 8700B

IC ID: 5511A-8700B

4 Equipment Used during Test

| Conducted Emission | | | | | |
|--------------------|---|--------------|-----------|------------|---------------|
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC002 | Shielding Room | ETS | N/A | N/A | 2012-05-18 |
| GAL-EMC003 | Receiver | SCHAFFNER | SMR4503 | 11725 | 2011-07-08 |
| GAL-EMC005 | Line impedance stabilization network | EMCO | 4825/2 | 1161 | 2011-07-08 |
| GAL-EMC098 | Line impedance stabilization network | EMCO | 3810/2 | 2516 | 2011-07-08 |
| RF in Chamber | | | | | |
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC001 | Semi-anechoic Chamber | ETS | N/A | N/A | 2012-05-25 |
| GAL-EMC003 | Receiver | SCHAFFNER | SMR4503 | 11725 | 2011-07-08 |
| GAL-EMC007 | Double-ridged Wave guide horn | ETS | 3115 | 6587 | 2011-08-02 |
| GAL-EMC008 | Microwave system amplifier (0.5G-26.5G) | Agilent | 83017A | MY39500438 | 2011-07-08 |
| GAL-EMC017 | Biconilog Antenna | ETS | 3142C | 00042672 | 2011-09-26 |
| GAL-EMC055 | Band-pass Filter | Micro-Tronic | BRM50702 | S/N-030 | 2011-11-09 |
| GAL-EMC056 | Spectrum Analyzer 9KHz-30GHz | R&S | FSP30 | 100755 | 2011-11-02 |
| GAL-EMC075 | Double-ridged Wave guide horn | ETS | 3160 | 00052486 | 2011-08-02 |
| RF Conducted | | | | | |
| No. | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC056 | Spectrum Analyzer 9KHz-30GHz | R&S | FSP30 | 100755 | 2011-11-02 |
| GAL-EMC099 | ATC—Lab | N/A | N/A | N/A | 2011-11-02 |

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IC ID: 5511A-8700B

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5 Test Results

5.1 Conducted Emissions

| | |
|--------------------------|--|
| Test Requirement: | FCC Part15 B Section 15.207 RSS-Gen Section 7.2.2 |
| Test Method: | ANSI C63.4:2003 |
| Frequency Range: | 150KHz to 30MHz |
| Class/Severity: | Class B |
| Detector: | Peak for pre-scan (9 kHz resolution bandwidth) |
| Test Mode: | WIFI mode |
| Test Voltage: | 120Vac,60Hz |
| Test Date: | 13 June. 2011 |
| Temperature: | 25°C |
| Humidity: | 54% |
| Limit: | a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges |

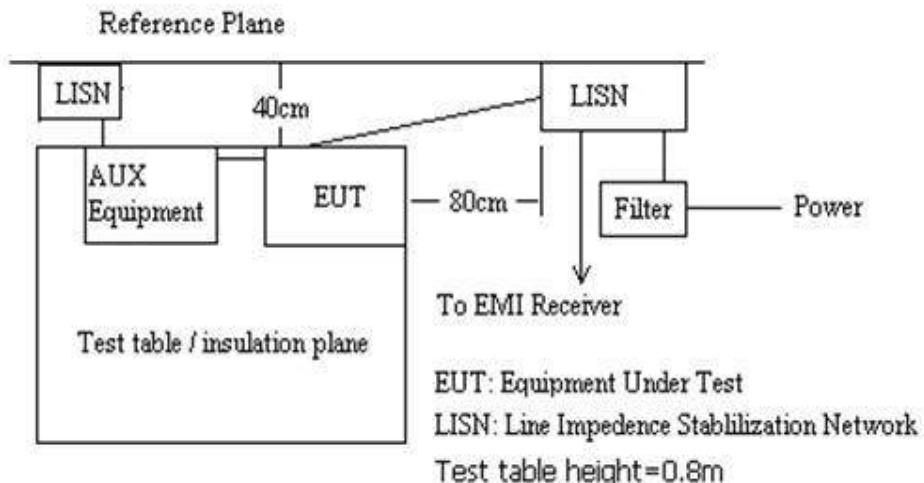
| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|------------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.1.1 Test Setup



5.1.2 Test Procedure

The Device was connected to the artificial main network via AC adapter, And test the EUT with activated in WIFI transmit mode.

5.1.3 Measurement Data

Measure the maximised peak emissions from the EUT for both the Live and Neutral Lines. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

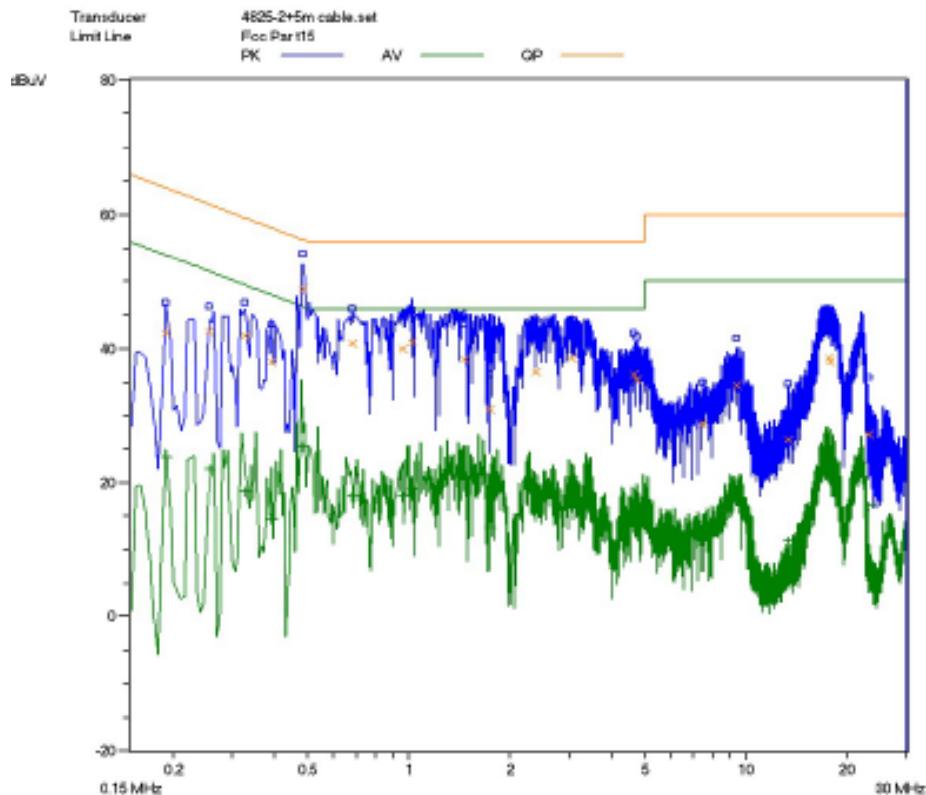
| Frequency (MHz) | Line | Measured QP (dBuV) | QP Limit (dBuV) | Measured AV (dBuV) | AV Limit (dBuV) | Over Limit QP | Over Limit AV |
|-----------------|------|--------------------|-----------------|--------------------|-----------------|---------------|---------------|
| 0.2550 | L | 42.60 | 61.55 | 22.10 | 51.55 | -18.95 | -29.45 |
| 0.3250 | L | 42.10 | 59.55 | 18.80 | 49.55 | -17.45 | -30.75 |
| 0.4850 | L | 48.80 | 56.25 | 25.60 | 46.25 | -7.45 | -20.65 |
| 1.0150 | L | 41.00 | 56.00 | 19.10 | 46.00 | -15.00 | -26.90 |
| 3.0300 | L | 38.70 | 56.00 | 20.70 | 46.00 | -17.30 | -25.30 |
| 17.6100 | L | 38.00 | 60.00 | 20.70 | 50.00 | -22.00 | -29.30 |
| 0.1950 | N | 40.30 | 63.76 | 20.20 | 53.76 | -23.46 | -33.56 |
| 0.3200 | N | 37.60 | 59.68 | 19.80 | 49.68 | -22.08 | -29.88 |
| 1.1100 | N | 39.40 | 56.00 | 22.50 | 46.00 | -16.60 | -23.50 |
| 2.5750 | N | 39.70 | 56.00 | 21.80 | 46.00 | -16.30 | -24.20 |
| 3.0150 | N | 39.20 | 56.00 | 21.50 | 46.00 | -16.80 | -24.50 |
| 17.1450 | N | 42.10 | 60.00 | 32.10 | 50.00 | -17.90 | -17.90 |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

Live Line

| | |
|--------------------|----------------|
| Title | CE_L |
| (IUT) Ser/No. | A7052 |
| Condition | 120Vac,60Hz |
| Frequency Range(s) | Range 1 |
| Start Frequency | 150 kHz |
| Stop Frequency | 30 MHz |
| Step Frequency | 5 kHz |
| Attenuator | Auto |
| Detector | (Pre) AV CISPR |
| IF Bandwidth | (Pre) 9 kHz |
| Measure Time | (Pre) 10 ms |
| Detector | (Final) CP |
| IF Bandwidth | (Final) 9 kHz |
| Measure Time | (Final) 1 s |
| Sub Ranges | (Final) 20 |



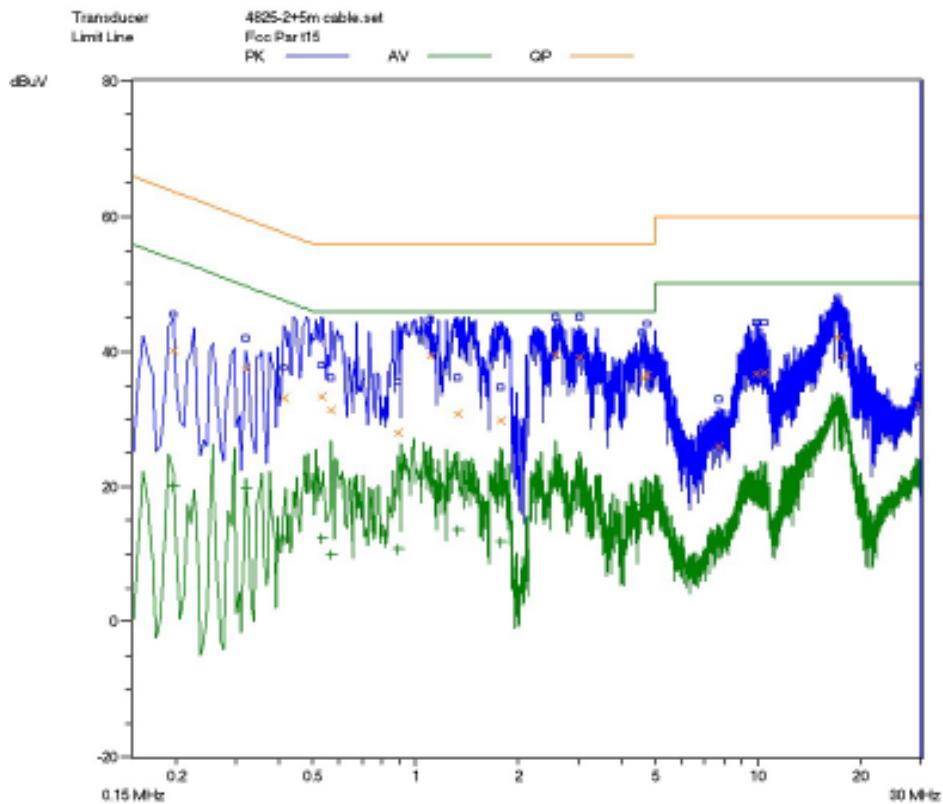
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Nuetral Line

| | |
|--------------------|----------------|
| Title | CE_N |
| ELUT Ser.No. | A7052 |
| Condition | 120V±0.50Hz |
| Frequency Range(s) | Range 1 |
| Start Frequency | 150 kHz |
| Stop Frequency | 30 MHz |
| Step Frequency | 5 kHz |
| Attenuator | Auto |
| Detector | (Pre) AV CISPR |
| IF Bandwidth | (Pre) 9 kHz |
| Measure Time | (Pre) 10 ms |
| Detector | (Final) QP |
| IF Bandwidth | (Final) 9 kHz |
| Measure Time | (Final) 1 s |
| Sub Ranges | (Final) 20 |



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5.2 Radiated Emissions

Test Requirement: FCC Part15 C Section 15.247,15.209 and 15.205
RSS-210 A 8.5 and RSS-Gen Section 7.2.3

Test Method: ANSI C63.4:2003

Frequency Range: 30MHz to 25GHz

Receiver Setup: QP Detector (RBW=120 kHz,VBW=300kHz) for 30 to 1000 MHz RE testing
Peak Detector(RBW=1MHz,VBW=3MHz) for 1 to 25 GHz RE Peak value testing
Peak Detector(RBW=1MHz, VBW=10Hz) for 1 to 25 GHz RE AV value testing

Test Mode: WIFI transmit

Test Voltage: 120Vac,60Hz

Test Date: 03 June. 2011 to 09 June. 2011

Temperature: 23°C~25°C

Humidity: 48%~55%

Limit: The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Test Procedure: Prescan on three orthogonal axes with the EUT and show the worst case measured results in the report.

| Frequency of Emission | Field Strength | |
|-----------------------|--------------------|------------------|
| (MHz) | (microvolts/meter) | dB (μ V/m) |
| 30 - 88 | 100 | 40(QP) |
| 88 - 216 | 150 | 43.5(QP) |
| 216 - 960 | 200 | 46(QP) |
| 960-1000 | 500 | 54(QP) |
| Above 1000 | 500 | 54(AV) 74(PK) |

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5.2.1 Test Setup

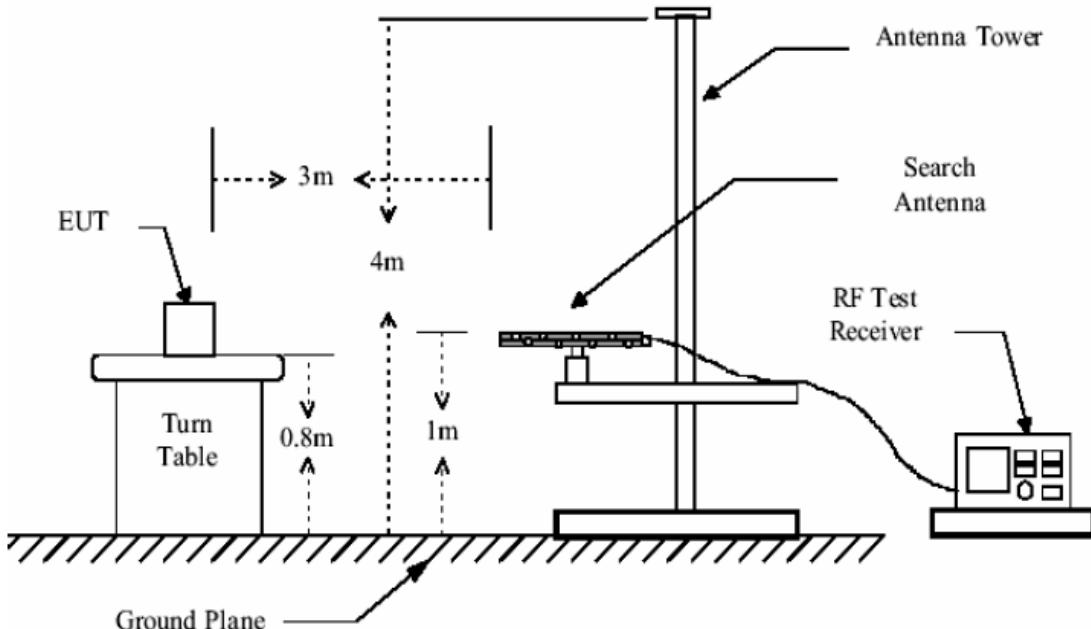


Figure1: 30MHz to 1GHz radiated emissions test setup

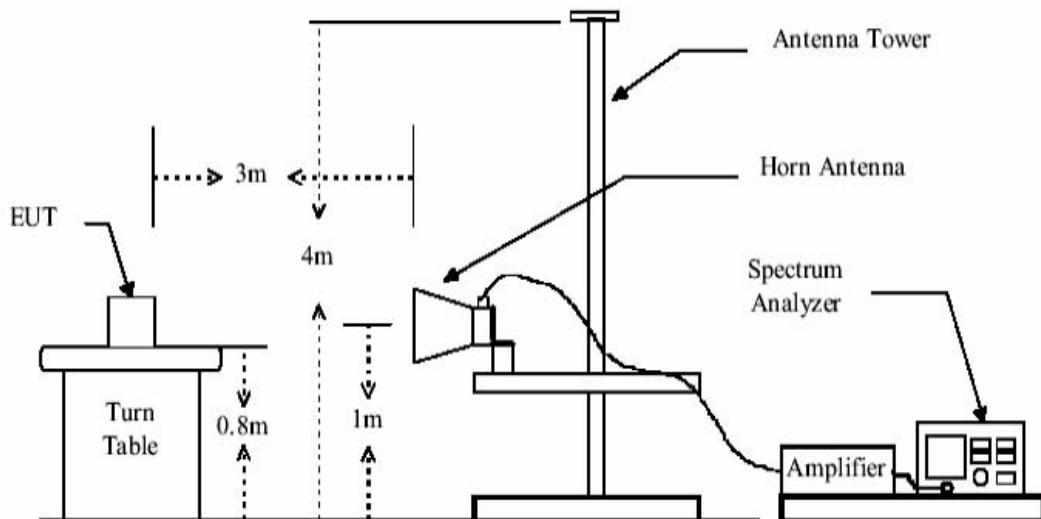


Figure 2: Above 1GHz radiated emissions test setup

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5.2.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.2.3 Measurement Data

Radiated Emission below 1GHz

Set the WIFI model, pre-scan all channels of the WIFI with transmitting, and found out the 802.11b transmitting mode, channel 01 which it is the worst case.

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | QP Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 30.480 | H | 7.10 | 16.70 | 23.80 | 40.00 | -16.20 | Pass |
| 330.880 | H | 23.90 | 15.00 | 38.90 | 46.00 | -7.10 | Pass |
| 468.000 | H | 13.60 | 18.90 | 32.50 | 46.00 | -13.50 | Pass |
| 572.000 | H | 12.10 | 20.40 | 32.50 | 46.00 | -13.50 | Pass |
| 624.000 | H | 15.10 | 21.40 | 36.50 | 46.00 | -9.50 | Pass |
| 884.000 | H | 12.80 | 23.60 | 36.40 | 46.00 | -9.60 | Pass |
| 30.640 | V | 17.20 | 16.70 | 33.90 | 40.00 | -6.10 | Pass |
| 338.000 | V | 15.50 | 15.10 | 30.60 | 46.00 | -15.40 | Pass |
| 468.000 | V | 16.50 | 18.90 | 35.40 | 46.00 | -10.60 | Pass |
| 520.000 | V | 13.20 | 20.30 | 33.50 | 46.00 | -12.50 | Pass |
| 728.000 | V | 10.50 | 22.50 | 33.00 | 46.00 | -13.00 | Pass |
| 832.000 | V | 15.10 | 23.40 | 38.50 | 46.00 | -7.50 | Pass |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

Radiated Emission Above 1GHz

Pre-scan all kind of data rate in WIFI with transmitting, and found the worse case which it is 11Mbps of 802.11b mode ,54Mbps of 802.11g mode and 65Mbps of 802.11n with transmitting.

Transmitting mode (802.11b lowest channel=2412MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1048.000 | H | 47.88 | -5.10 | 42.78 | 74.00 | -31.22 | Pass |
| 4824.000 | H | 42.35 | 6.10 | 48.45 | 74.00 | -25.55 | Pass |
| 7236.000 | H | 42.06 | 11.80 | 53.86 | 74.00 | -20.14 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1054.000 | V | 47.96 | -5.10 | 42.86 | 74.00 | -31.14 | Pass |
| 4824.000 | V | 41.58 | 6.10 | 47.68 | 74.00 | -26.32 | Pass |
| 7236.000 | V | 41.21 | 11.80 | 53.01 | 74.00 | -20.99 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1048.000 | H | 33.67 | -5.10 | 28.57 | 54.00 | -25.43 | Pass |
| 4824.000 | H | 28.54 | 6.10 | 34.64 | 54.00 | -19.36 | Pass |
| 7236.000 | H | 28.79 | 11.80 | 40.59 | 54.00 | -13.41 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1054.000 | V | 32.19 | -5.10 | 27.09 | 54.00 | -26.91 | Pass |
| 4824.000 | V | 29.04 | 6.10 | 35.14 | 54.00 | -18.86 | Pass |
| 7236.000 | V | 29.33 | 11.80 | 41.13 | 54.00 | -12.87 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

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FCC ID: SOV 8700B

IC ID: 5511A-8700B

Transmitting mode (802.11b middle channel=2437MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1080.000 | H | 46.38 | -5.10 | 41.28 | 74.00 | -32.72 | Pass |
| 4874.000 | H | 42.16 | 6.10 | 48.26 | 74.00 | -25.74 | Pass |
| 7311.000 | H | 41.37 | 11.92 | 53.29 | 74.00 | -20.71 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1080.000 | V | 45.76 | -5.10 | 40.66 | 74.00 | -33.34 | Pass |
| 4874.000 | V | 42.35 | 6.10 | 48.45 | 74.00 | -25.55 | Pass |
| 7311.000 | V | 41.69 | 11.92 | 53.61 | 74.00 | -20.39 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1080.000 | H | 31.25 | -5.10 | 26.15 | 54.00 | -27.85 | Pass |
| 4874.000 | H | 29.46 | 6.10 | 35.56 | 54.00 | -18.44 | Pass |
| 7311.000 | H | 28.37 | 11.92 | 40.29 | 54.00 | -13.71 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1080.000 | V | 32.22 | -4.90 | 27.32 | 54.00 | -26.68 | Pass |
| 4874.000 | V | 29.67 | 6.10 | 35.77 | 54.00 | -18.23 | Pass |
| 7311.000 | V | 29.24 | 11.92 | 41.16 | 54.00 | -12.84 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

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IC ID: 5511A-8700B

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Transmitting mode (802.11b highest channel=2462MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1076.000 | H | 47.33 | -5.10 | 42.23 | 74.00 | -31.77 | Pass |
| 4924.000 | H | 43.15 | 6.10 | 49.25 | 74.00 | -24.75 | Pass |
| 7386.000 | H | 41.07 | 12.10 | 53.17 | 74.00 | -20.83 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1078.000 | V | 46.08 | -5.10 | 40.98 | 74.00 | -33.02 | Pass |
| 4924.000 | V | 42.17 | 6.10 | 48.27 | 74.00 | -25.73 | Pass |
| 7386.000 | V | 41.66 | 12.10 | 53.76 | 74.00 | -20.24 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1076.000 | H | 30.26 | -5.10 | 25.16 | 54.00 | -28.84 | Pass |
| 4924.000 | H | 29.33 | 6.10 | 35.43 | 54.00 | -18.57 | Pass |
| 7386.000 | H | 28.76 | 12.10 | 40.86 | 54.00 | -13.14 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1078.000 | V | 29.48 | -5.10 | 24.38 | 54.00 | -29.62 | Pass |
| 4924.000 | V | 29.01 | 6.10 | 35.11 | 54.00 | -18.89 | Pass |
| 7386.000 | V | 29.14 | 12.10 | 41.24 | 54.00 | -12.76 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

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Transmitting mode (802.11g lowest channel=2412MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1056.000 | H | 46.29 | -5.10 | 41.19 | 74.00 | -32.81 | Pass |
| 4824.000 | H | 41.05 | 6.10 | 47.15 | 74.00 | -26.85 | Pass |
| 7236.000 | H | 42.16 | 11.80 | 53.96 | 74.00 | -20.04 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1048.000 | V | 46.92 | -5.10 | 41.82 | 74.00 | -32.18 | Pass |
| 4824.000 | V | 42.37 | 6.10 | 48.47 | 74.00 | -25.53 | Pass |
| 7236.000 | V | 41.00 | 11.80 | 52.80 | 74.00 | -21.20 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1056.000 | H | 32.46 | -5.10 | 27.36 | 54.00 | -26.64 | Pass |
| 4824.000 | H | 29.05 | 6.10 | 35.15 | 54.00 | -18.85 | Pass |
| 7236.000 | H | 28.88 | 11.80 | 40.68 | 54.00 | -13.32 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1048.000 | V | 32.47 | -5.10 | 27.37 | 54.00 | -26.63 | Pass |
| 4824.000 | V | 29.15 | 6.10 | 35.25 | 54.00 | -18.75 | Pass |
| 7236.000 | V | 28.74 | 11.80 | 40.54 | 54.00 | -13.46 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

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Transmitting mode (802.11g middle channel=2437MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1064.000 | H | 45.82 | -5.10 | 40.72 | 74.00 | -33.28 | Pass |
| 4874.000 | H | 42.33 | 6.10 | 48.43 | 74.00 | -25.57 | Pass |
| 7311.000 | H | 42.06 | 11.92 | 53.98 | 74.00 | -20.02 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1180.000 | V | 47.18 | -4.90 | 42.28 | 74.00 | -31.72 | Pass |
| 4874.000 | V | 41.37 | 6.10 | 47.47 | 74.00 | -26.53 | Pass |
| 7311.000 | V | 41.25 | 11.92 | 53.17 | 74.00 | -20.83 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1064.000 | H | 32.44 | -5.10 | 27.34 | 54.00 | -26.66 | Pass |
| 4874.000 | H | 29.01 | 6.10 | 35.11 | 54.00 | -18.89 | Pass |
| 7311.000 | H | 29.12 | 11.92 | 41.04 | 54.00 | -12.96 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1180.000 | V | 33.17 | -4.90 | 28.27 | 54.00 | -25.73 | Pass |
| 4874.000 | V | 28.24 | 6.10 | 34.34 | 54.00 | -19.66 | Pass |
| 7311.000 | V | 28.71 | 11.92 | 40.63 | 54.00 | -13.37 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

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Transmitting mode (802.11g highest channel=2462MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PEAK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|---------------------|----------------|------------|
| 1014.000 | H | 47.35 | -5.10 | 42.25 | 74.00 | -31.75 | Pass |
| 4924.000 | H | 42.16 | 6.10 | 48.26 | 74.00 | -25.74 | Pass |
| 7386.000 | H | 41.39 | 12.10 | 53.49 | 74.00 | -20.51 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1038.000 | V | 45.99 | -5.10 | 40.89 | 74.00 | -33.11 | Pass |
| 4924.000 | V | 42.01 | 6.10 | 48.11 | 74.00 | -25.89 | Pass |
| 7386.000 | V | 41.85 | 12.10 | 53.95 | 74.00 | -20.05 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1014.000 | H | 30.24 | -5.10 | 25.14 | 54.00 | -28.86 | Pass |
| 4924.000 | H | 29.13 | 6.10 | 35.23 | 54.00 | -18.77 | Pass |
| 7386.000 | H | 28.46 | 12.10 | 40.56 | 54.00 | -13.44 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1038.000 | V | 32.41 | -5.20 | 27.21 | 54.00 | -26.79 | Pass |
| 4924.000 | V | 29.47 | 6.10 | 35.57 | 54.00 | -18.43 | Pass |
| 7386.000 | V | 29.03 | 12.10 | 41.13 | 54.00 | -12.87 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

Transmitting mode (802.11n lowest channel=2412MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PEAK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|---------------------|----------------|------------|
| 1054.000 | H | 45.28 | -5.10 | 40.18 | 74.00 | -33.82 | Pass |
| 4824.000 | H | 41.33 | 6.10 | 47.43 | 74.00 | -26.57 | Pass |
| 7236.000 | H | 42.06 | 11.80 | 53.86 | 74.00 | -20.14 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1048.000 | V | 46.29 | -5.10 | 41.19 | 74.00 | -32.81 | Pass |
| 4824.000 | V | 42.05 | 6.10 | 48.15 | 74.00 | -25.85 | Pass |
| 7236.000 | V | 41.76 | 11.80 | 53.56 | 74.00 | -20.44 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1054.000 | H | 30.23 | -5.10 | 25.13 | 54.00 | -28.87 | Pass |
| 4824.000 | H | 29.42 | 6.10 | 35.52 | 54.00 | -18.48 | Pass |
| 7236.000 | H | 28.37 | 11.80 | 40.17 | 54.00 | -13.83 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1048.000 | V | 32.16 | -5.10 | 27.06 | 54.00 | -26.94 | Pass |
| 4824.000 | V | 29.46 | 6.10 | 35.56 | 54.00 | -18.44 | Pass |
| 7236.000 | V | 28.57 | 11.80 | 40.37 | 54.00 | -13.63 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

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Transmitting mode (802.11n middle channel=2437MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PEAK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|---------------------|----------------|------------|
| 1188.000 | H | 47.28 | -4.90 | 42.38 | 74.00 | -31.62 | Pass |
| 4874.000 | H | 42.33 | 6.10 | 48.43 | 74.00 | -25.57 | Pass |
| 7311.000 | H | 41.54 | 11.92 | 53.46 | 74.00 | -20.54 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1064.000 | V | 46.33 | -5.10 | 41.23 | 74.00 | -32.77 | Pass |
| 4874.000 | V | 42.05 | 6.10 | 48.15 | 74.00 | -25.85 | Pass |
| 7311.000 | V | 72.00 | 11.92 | 53.26 | 74.00 | -20.74 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 11880.000 | H | 31.43 | -4.90 | 26.53 | 54.00 | -27.47 | Pass |
| 4874.000 | H | 29.74 | 6.10 | 35.84 | 54.00 | -18.16 | Pass |
| 7311.000 | H | 29.01 | 11.92 | 40.93 | 54.00 | -13.07 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1064.000 | V | 32.18 | -5.10 | 27.08 | 54.00 | -26.92 | Pass |
| 4874.000 | V | 29.78 | 6.10 | 35.88 | 54.00 | -18.12 | Pass |
| 7311.000 | V | 28.04 | 11.92 | 39.96 | 54.00 | -14.04 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

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Transmitting mode (802.11n highest channel=2462MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PEAK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|---------------------|----------------|------------|
| 1232.000 | H | 45.88 | -4.90 | 40.98 | 74.00 | -33.02 | Pass |
| 4924.000 | H | 43.62 | 6.10 | 49.72 | 74.00 | -24.28 | Pass |
| 7386.000 | H | 41.29 | 12.10 | 53.39 | 74.00 | -20.61 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1052.000 | V | 46.96 | -5.10 | 41.86 | 74.00 | -32.14 | Pass |
| 4924.000 | V | 43.36 | 6.10 | 49.46 | 74.00 | -24.54 | Pass |
| 7386.000 | V | 41.00 | 12.10 | 53.10 | 74.00 | -20.90 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1232.000 | H | 33.28 | -4.90 | 28.38 | 54.00 | -25.62 | Pass |
| 4924.000 | H | 29.46 | 6.10 | 35.56 | 54.00 | -18.44 | Pass |
| 7386.000 | H | 29.67 | 12.10 | 41.77 | 54.00 | -12.23 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 1052.000 | V | 32.16 | -5.10 | 27.06 | 54.00 | -26.94 | Pass |
| 4924.000 | V | 29.42 | 6.10 | 35.52 | 54.00 | -18.48 | Pass |
| 7386.000 | V | 29.05 | 12.10 | 41.15 | 54.00 | -12.85 | Pass |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

FCC ID: SOV 8700B

IC ID: 5511A-8700B

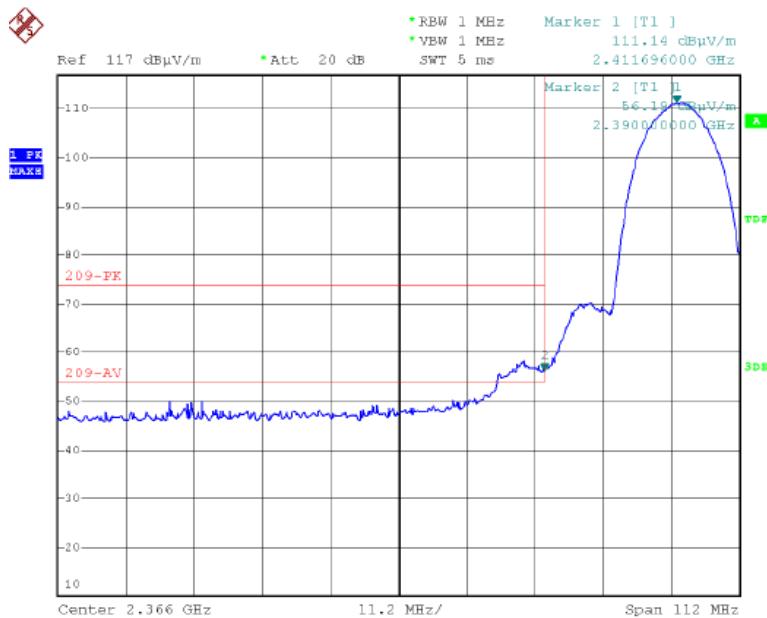
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Band Edge and Restricted band (Radiated measurement)

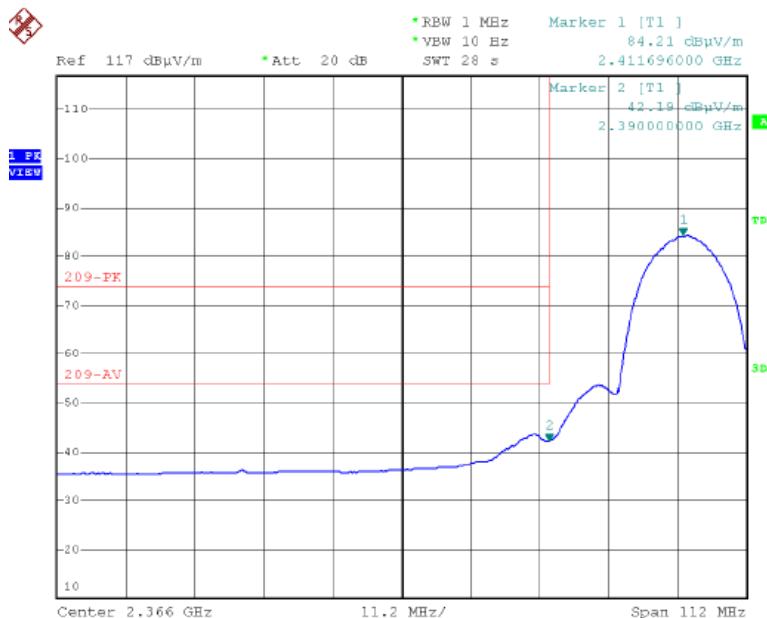
Set the WIFI mode, pre-scan all channels of the WIFI, and found the 802.11b mode which it is worse case.

Transmitting with 802.11b mode (Lowest channel=2412MHz)

Peak Measurement in Horizontal polarization



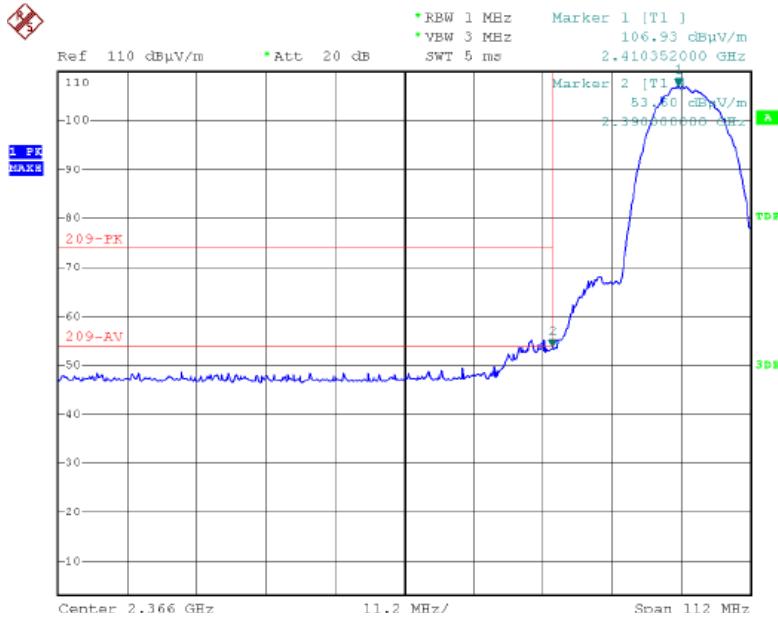
Average Measurement in Horizontal polarization



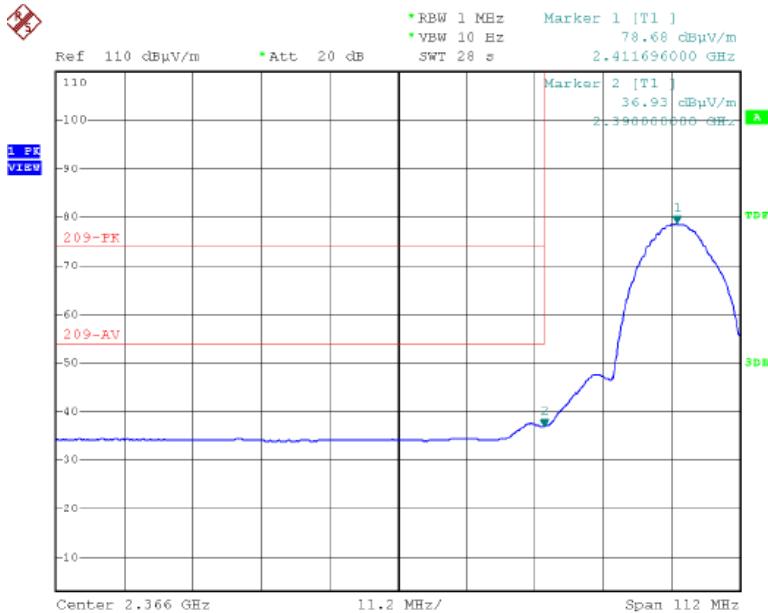
FCC ID: SOV 8700B

IC ID: 5511A-8700B

Peak Measurement in Vertical polarization



Average Measurement in Vertical polarization



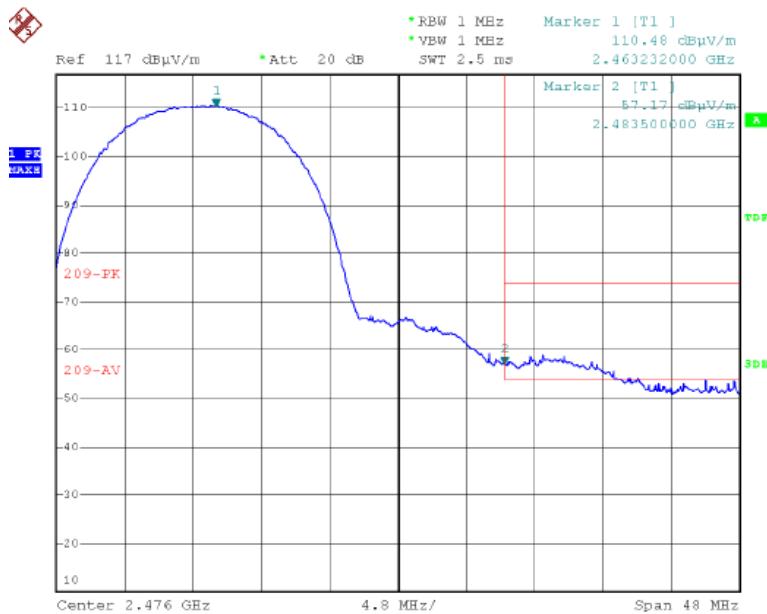
FCC ID: SOV 8700B

IC ID: 5511A-8700B

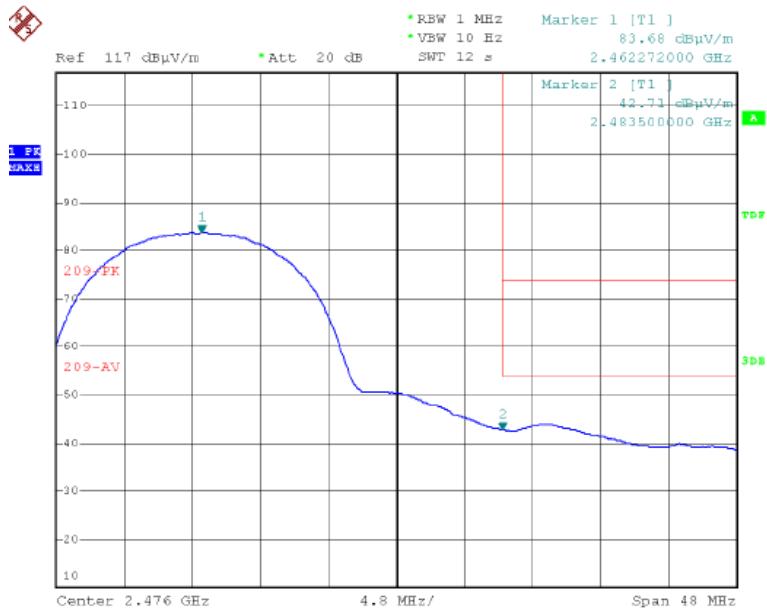
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Transmitting with 801.11b mode (Highest channel=2462MHz)

Peak Measurement in Horizontal polarization



Average Measurement in Vertical polarization

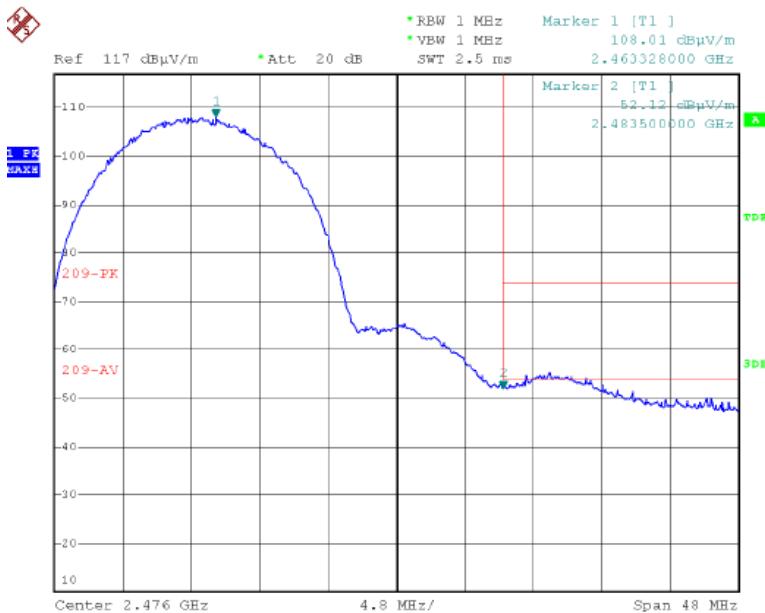


FCC ID: SOV 8700B

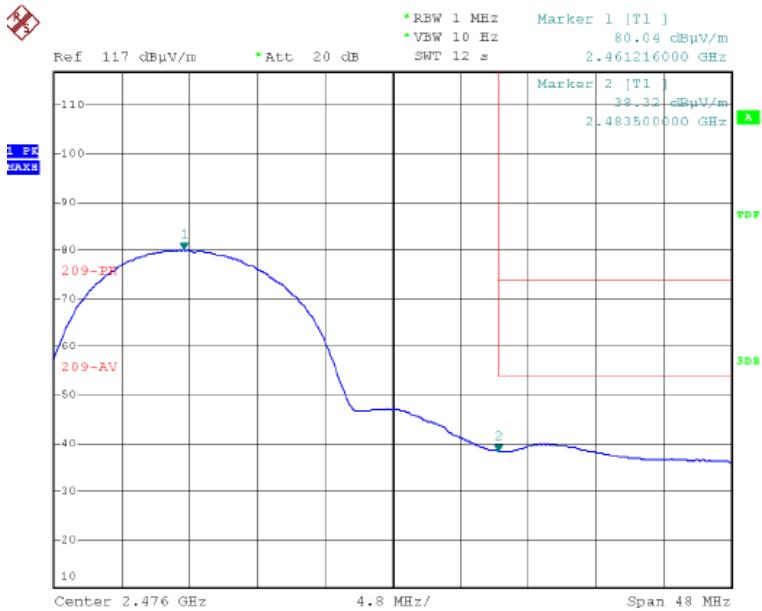
IC ID: 5511A-8700B

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Peak Measurement in Vertical polarization



Average Measurement in Vertical polarization



FCC ID: SOV 8700B

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Remark 1:

No any other emissions level which are attenuated less than 20dB below the limit According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

Remark 2:

- 1). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 2). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.
- 3) Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates and antenna ports, and found the EUT worse case mode: 802.11b (11MHz), 802.11g (54MHz), 802.11n (65MHz)
- 4) For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the 4th harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 4th harmonic.

Remark 3:

Section 15.205 Restricted bands of operation.

| MHz | MHz | MHz | GHz |
|---------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| 10.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 - 335.4 | | |

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.3 Maximum Peak Output Power

Test Requirement: FCC 15.247(b)
RSS-210 A 8.4(2)

Test Method: ANSI C63.4:2003 and KDB558074.

Method of Measurement: The EUT was setup to ANSI C63.4, 2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Select test data rate: 11Mbps(802.11b) & 54Mbps(802.11g) & 65Mbps(802.11n)

Detector: RBW=1 MHz, VBW=3 MHz (Peak detector)

Test Mode: WIFI transmitting mode

Test Voltage: Pretest the EUT with voltage $120 \pm 15\%$ Vac, 60Hz; and found out at 120Vac, 60Hz is the worst case.

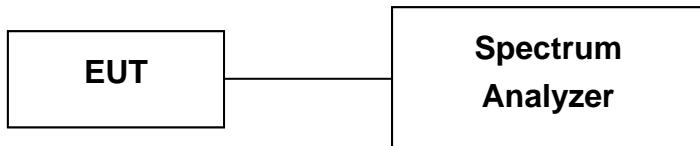
Test Date: 12 June. 2011

Temperature: 25°C

Humidity: 56%

Limit: The Limit of Maximum Peak Output Power Measurement is 30dBm.

5.3.1 Test Setup



5.3.2 Test Procedure

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps, 802.11g 6/9/12/18/24/36/48/54Mbps and 802.11n 6.5/13/19.5/26/39/52/58.5/65Mbps). Following channel(s) was (were) selected for the final test as listed below.

802.11b 11Mbps, 802.11g 54Mbps and 802.11n 65Mbps

FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.3.3 Measurement Data

For EUT communicating with 802.11b Mode

| Chanel Frequency (GHz) | Peak Output Power(dBm) | Cable Loss (dB) | Power level(dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------|-----------------|------------------|-------------|-----------------|
| 2.412 | 11.56 | 0.5 | 12.06 | 30.00 | -17.94 |
| 2.437 | 12.03 | 0.5 | 12.53 | 30.00 | -17.47 |
| 2.462 | 11.81 | 0.5 | 12.31 | 30.00 | -17.69 |

For EUT communicating with 802.11g Mode

| Chanel Frequency (GHz) | Peak Output Power(dBm) | Cable Loss (dB) | Power level(dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------|-----------------|------------------|-------------|-----------------|
| 2.412 | 10.68 | 0.5 | 11.18 | 30.00 | -18.82 |
| 2.437 | 10.17 | 0.5 | 10.67 | 30.00 | -19.33 |
| 2.462 | 10.88 | 0.5 | 11.38 | 30.00 | -18.62 |

For EUT communicating with 802.11n Mode

| Chanel Frequency (GHz) | Peak Output Power(dBm) | Cable Loss (dB) | Power level(dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------|-----------------|------------------|-------------|-----------------|
| 2.412 | 9.60 | 0.5 | 10.10 | 30.00 | -19.90 |
| 2.437 | 9.22 | 0.5 | 9.72 | 30.00 | -20.28 |
| 2.462 | 9.60 | 0.5 | 10.10 | 30.00 | -19.90 |

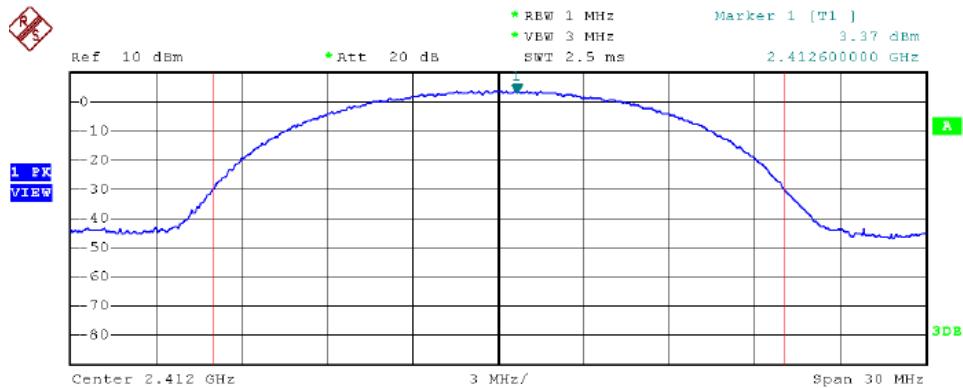
Test result: The unit does meet the requirements.**Test result plot as follows:**

FCC ID: SOV 8700B

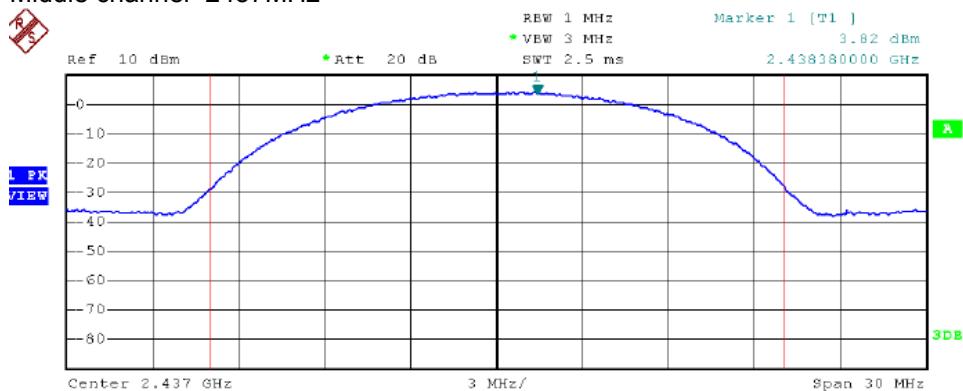
IC ID: 5511A-8700B

The EUT communicating with 802.11b Mode

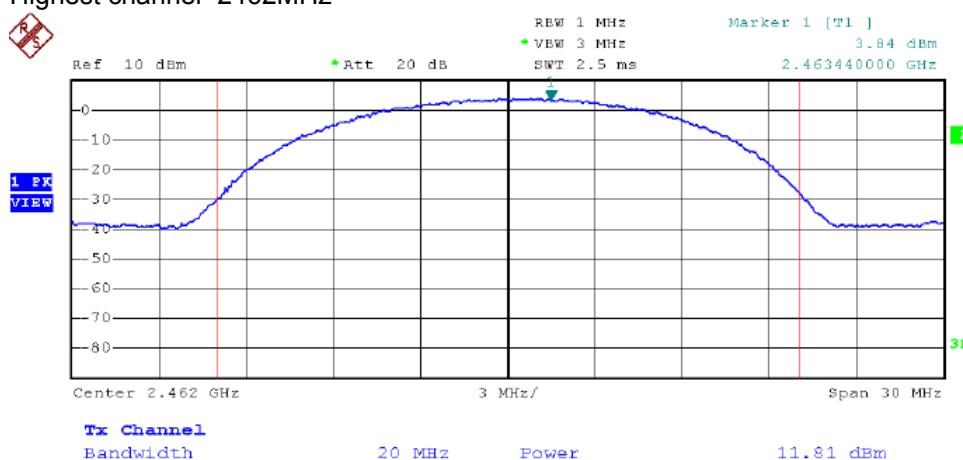
Lowest channel=2412MHz



Middle channel=2437MHz



Highest channel=2462MHz

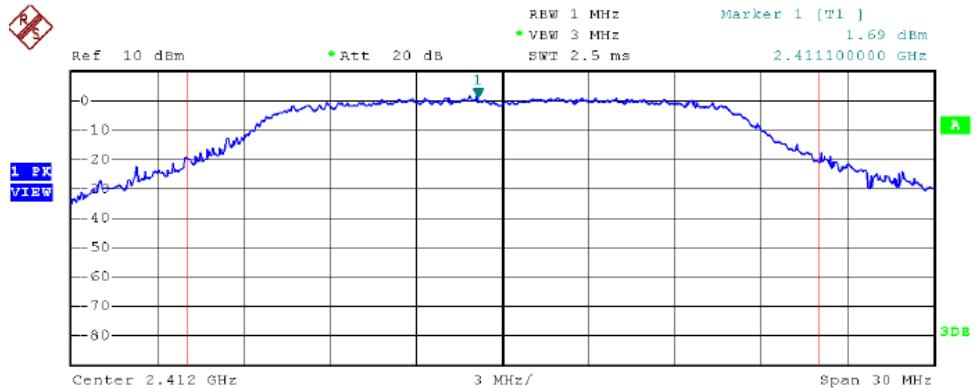


FCC ID: SOV 8700B

IC ID: 5511A-8700B

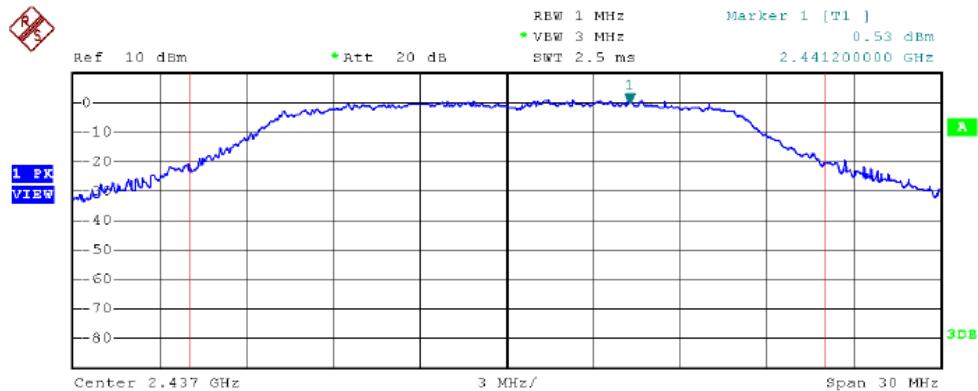
The EUT communicating with 802.11g Mode

Lowest channel=2412MHz



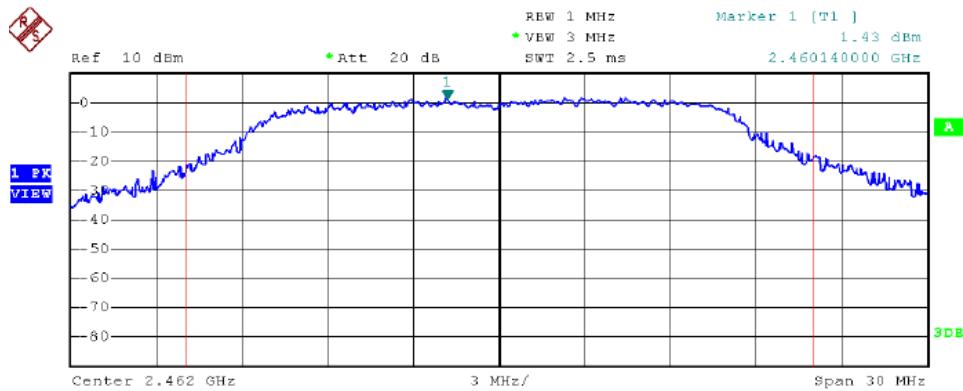
Tx Channel
Bandwidth 22 MHz Power 10.68 dBm

Middle channel=2437MHz



Tx Channel
Bandwidth 22 MHz Power 10.17 dBm

Highest channel=2462MHz



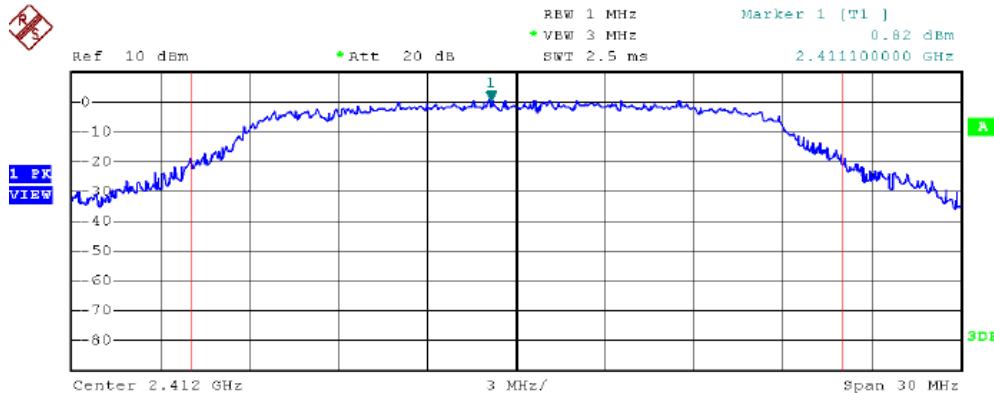
Tx Channel
Bandwidth 22 MHz Power 10.88 dBm

FCC ID: SOV 8700B

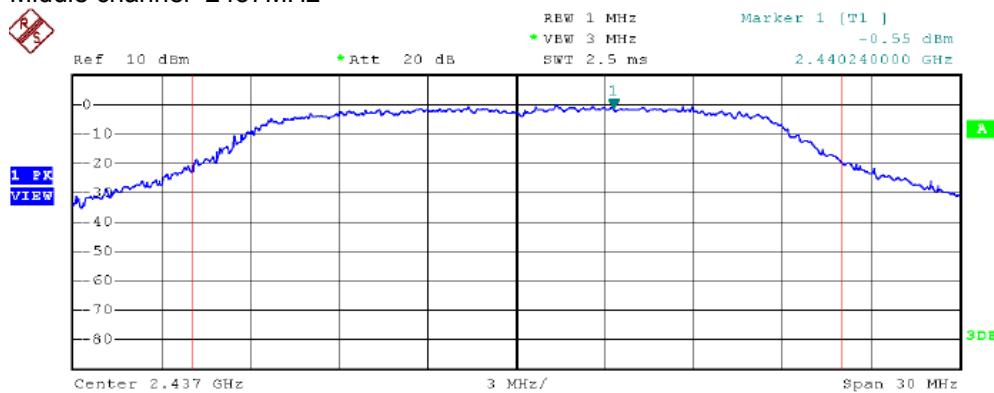
IC ID: 5511A-8700B

The EUT communicating with 802.11n Mode

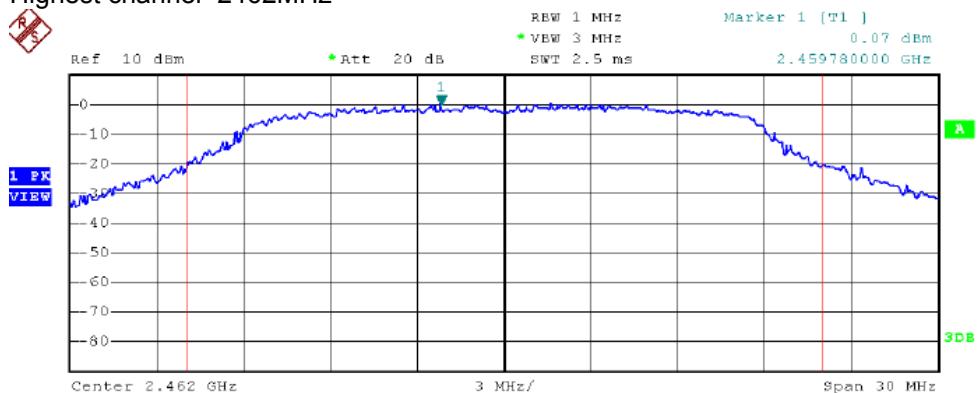
Lowest channel=2412MHz



Middle channel=2437MHz



Highest channel=2462MHz



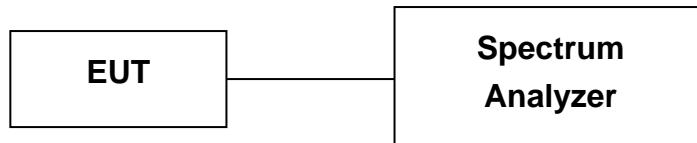
FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.4 6dB Occupied Bandwidth

| | |
|-------------------------------|---|
| Test Requirement: | FCC 15.247(b) RSS-210 A 8.2(a) |
| Test Method: | ANSI C63.4:2003 and KDB558074. |
| Method of Measurement: | The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB. Analyzer and the attached plot were taken. The EUT was setup to ANSI C63.4, 2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance with FCC 47CFR 15.247 requirements. |
| Select test data rate: | 11Mbps(802.11b) & 54Mbps(802.11g) & 65Mbps(802.11n) |
| Detector: | RBW=100kHz, VBW=300 kHz (Peak detector) |
| Test Mode: | WIFI transmitting mode |
| Test Voltage: | 120Vac, 60Hz |
| Test Date: | 06 June. 2011 |
| Temperature: | 25°C |
| Humidity: | 52% |
| Limit: | The minimum 6 dB bandwidth shall be at least 500 kHz. |

5.4.1 Test Setup



5.4.2 Test Procedure

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps, 802.11g 6/9/12/18/24/36/48/54Mbps and 802.11n 6.5/13/19.5/26/39/52/58.5/65Mbps). Following channel(s) was (were) selected for the final test as listed below.

802.11b 11Mbps, 802.11g 54Mbps and 802.11n 65Mbps

FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.4.3 Measurement Data

For EUT communicating with 802.11b Mode

| Chanel Frequency (GHz) | 6 dB Bandwidth (MHz) | Minimun Limit (MHz) | Pass/Fail |
|------------------------|----------------------|---------------------|-----------|
| 2.412 | 9.90 | 0.5 | Pass |
| 2.437 | 9.72 | 0.5 | Pass |
| 2.462 | 10.80 | 0.5 | Pass |

For EUT communicating with 802.11g Mode

| Chanel Frequency (GHz) | 6 dB Bandwidth (MHz) | Minimun Limit (MHz) | Pass/Fail |
|------------------------|----------------------|---------------------|-----------|
| 2.412 | 16.20 | 0.5 | Pass |
| 2.437 | 15.96 | 0.5 | Pass |
| 2.462 | 1576 | 0.5 | Pass |

For EUT communicating with 802.11n Mode

| Chanel Frequency (GHz) | 6 dB Bandwidth (MHz) | Minimun Limit (MHz) | Pass/Fail |
|------------------------|----------------------|---------------------|-----------|
| 2.412 | 16.38 | 0.5 | Pass |
| 2.437 | 16.86 | 0.5 | Pass |
| 2.462 | 16.74 | 0.5 | Pass |

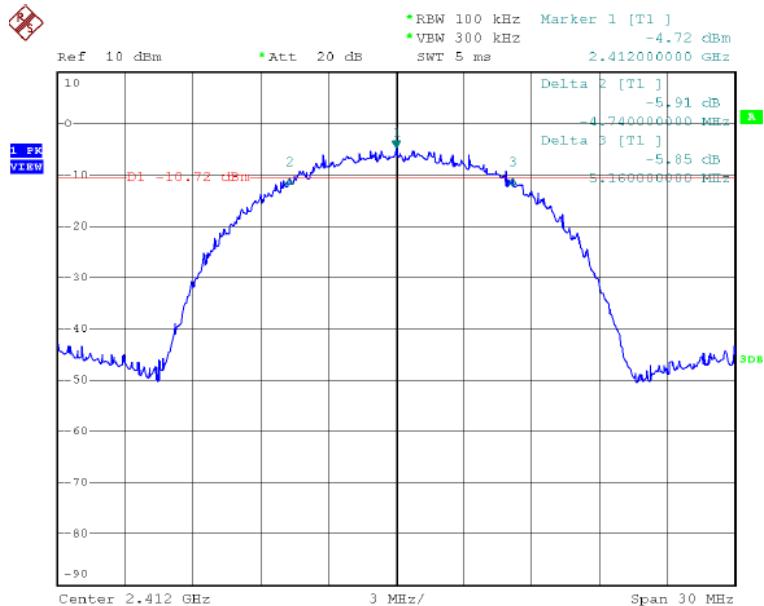
Test result: The unit does meet the requirements.

Test result plot as follows:

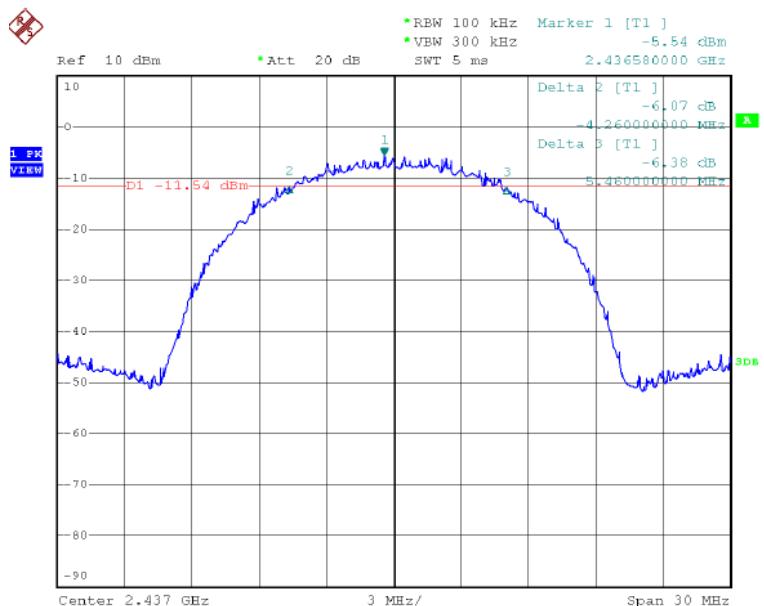
FCC ID: SOV 8700B

IC ID: 5511A-8700B

The EUT communicating with 802.11b Mode
Lowest channel=2412MHz



Middle channel=2437MHz

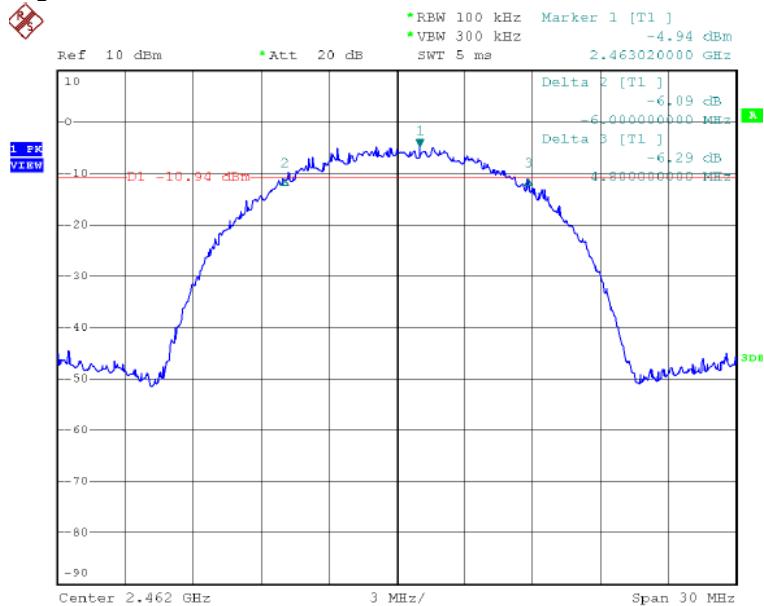


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Highest channel=2462MHz

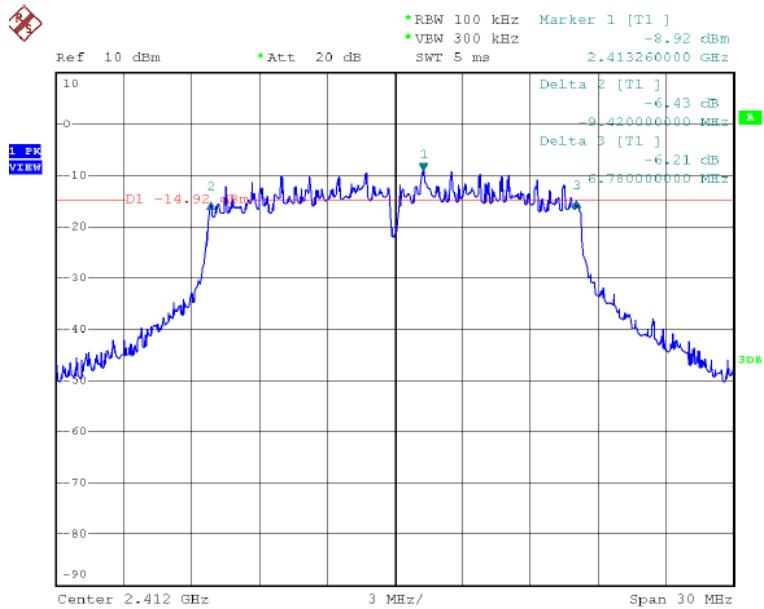


FCC ID: SOV 8700B

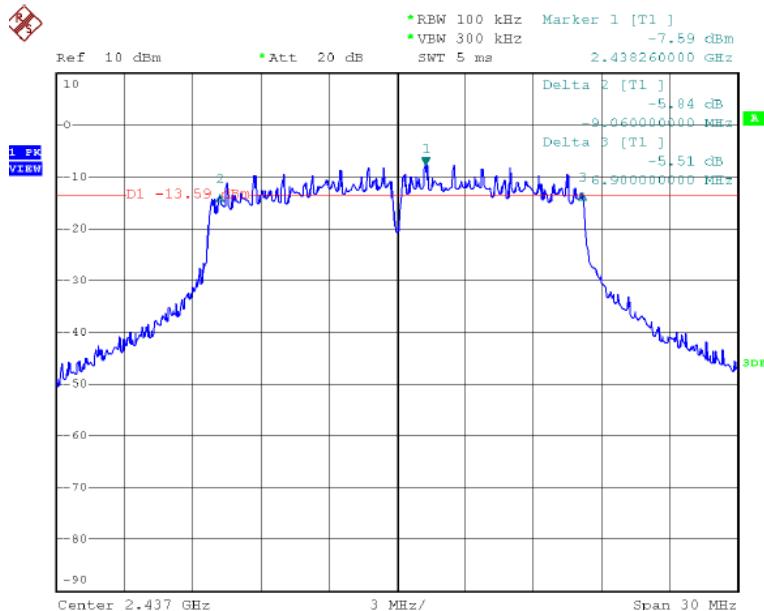
IC ID: 5511A-8700B

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The EUT communicating with 802.11g Mode
Lowest channel=2412MHz



Middle channel=2437MHz

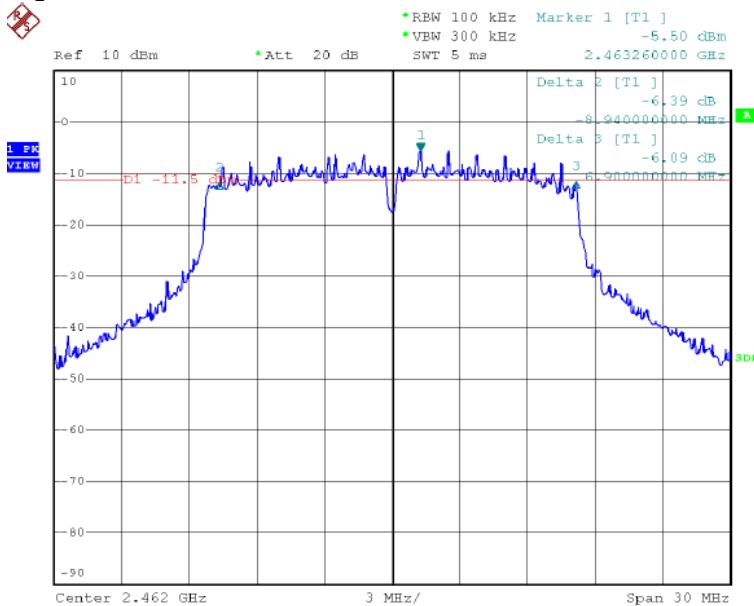


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IC ID: 5511A-8700B

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Highest channel=2462MHz

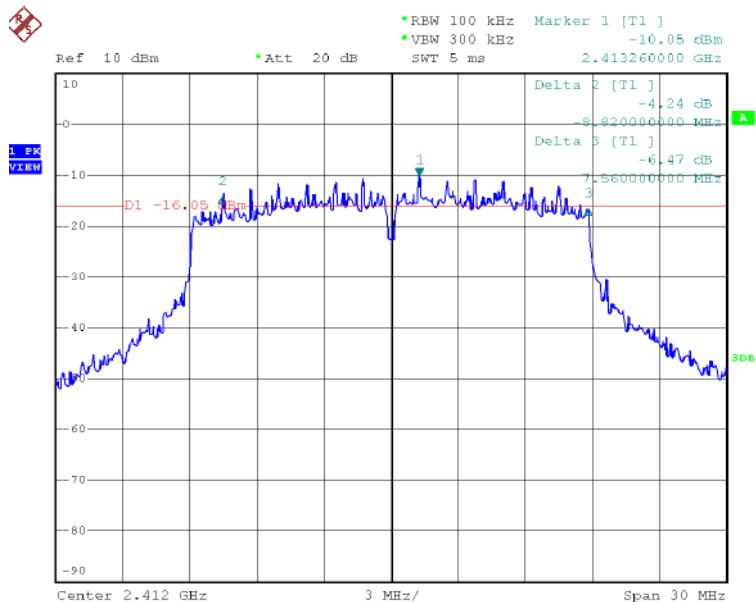


FCC ID: SOV 8700B

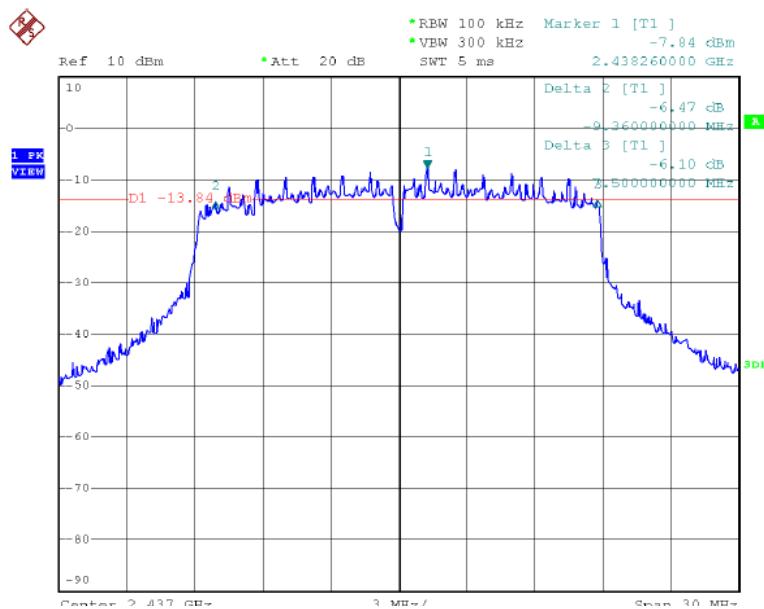
IC ID: 5511A-8700B

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The EUT communicating with 802.11n Mode
Lowest channel=2412MHz



Middle channel=2437MHz

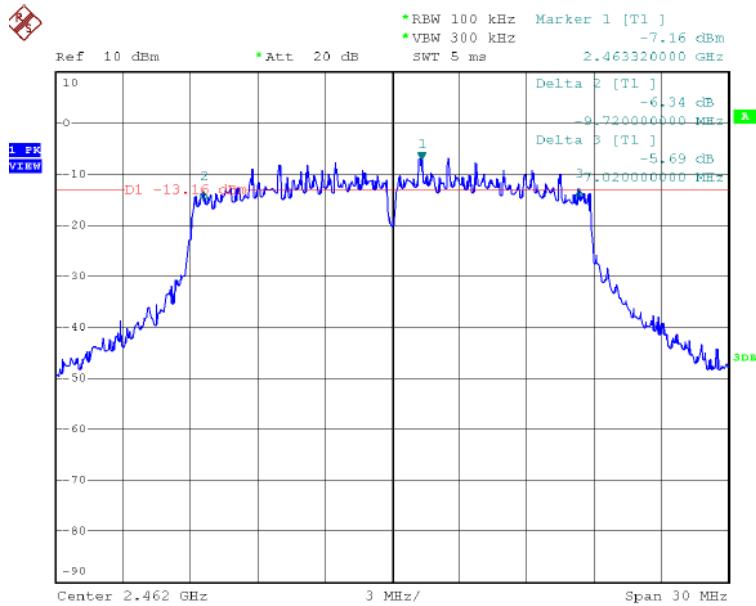


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Highest channel=2462MHz



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5.5 99% Occupied Bandwidth

| | |
|-------------------------------|---|
| Test Requirement: | RSS-Gen Section 4.6.1 |
| Test Method: | ANSI C63.4:2003 |
| Select test data rate: | 11Mbps(802.11b) & 54Mbps(802.11g) & 65Mbps(802.11n) |
| Detector: | RBW=100kHz,VBW=300 kHz (Peak detector) |
| Test Mode: | WIFI transmitting mode |
| Test Voltage: | 120Vac,60Hz |
| Test Date: | 06 June. 2011 |
| Temperature: | 25°C |
| Humidity: | 52% |
| Limit: | N/A |

5.5.1 Test Setup



5.5.2 Test Procedure

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps, 802.11g 6/9/12/18/24/36/48/54Mbps and 802.11n 6.5/13/19.5/26/39/52/58.5/65Mbps). Following channel(s) was (were) selected for the final test as listed below.

802.11b 11Mbps , 802.11g 54Mbps and 802.11n 65Mbps

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IC ID: 5511A-8700B

5.5.3 Measurement Data

| Chanel Frequency (GHz) | 99% Occupy Bandwidth(MHz) | | |
|------------------------------|---------------------------|---------|---------|
| | 802.11b | 802.11g | 802.11n |
| 2.412 | 14.46 | 16.44 | 17.58 |
| 2.437 | 14.40 | 16.38 | 17.58 |
| 2.462 | 14.40 | 16.44 | 17.58 |

Test result: The unit does meet the requirements.

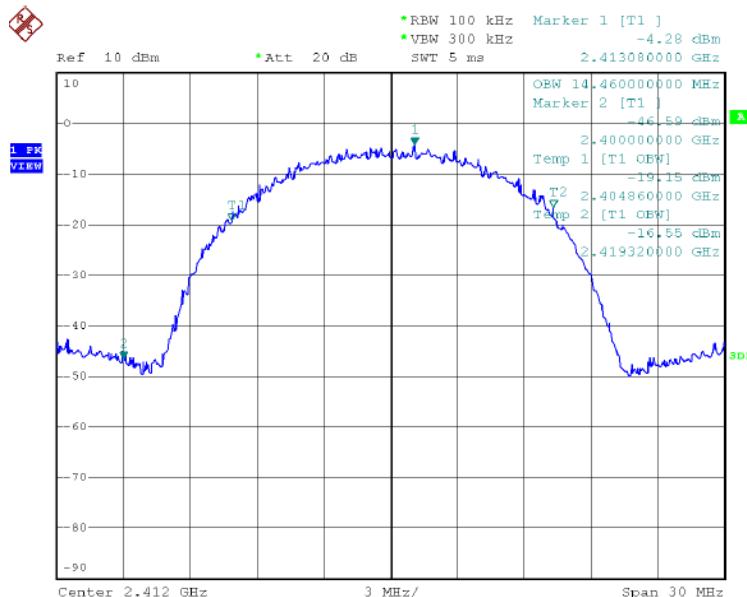
Test result plot as follows:

FCC ID: SOV 8700B

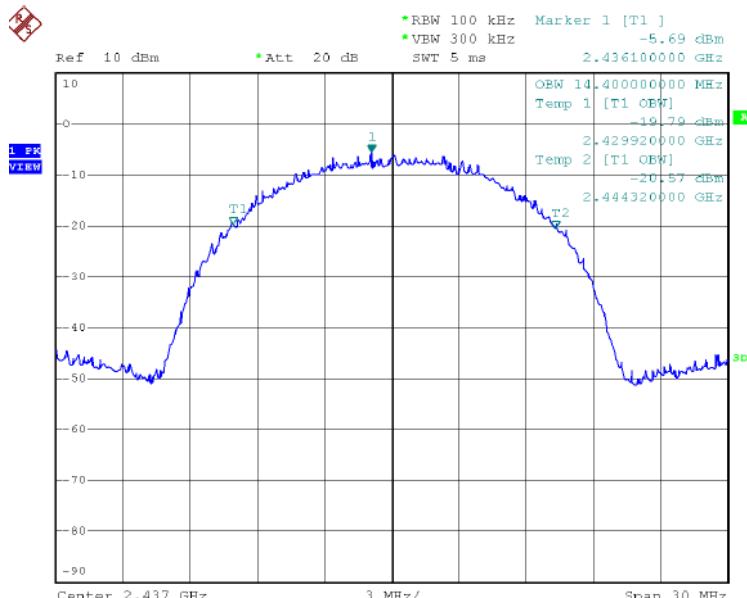
IC ID: 5511A-8700B

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The EUT communicating with 802.11b Mode
Lowest channel=2412MHz



Middle channel=2437MHz

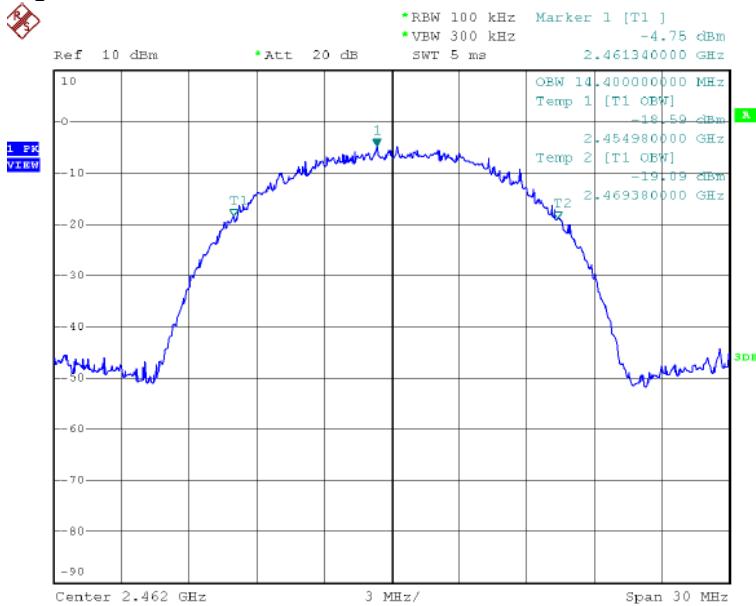


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Highest channel=2462MHz

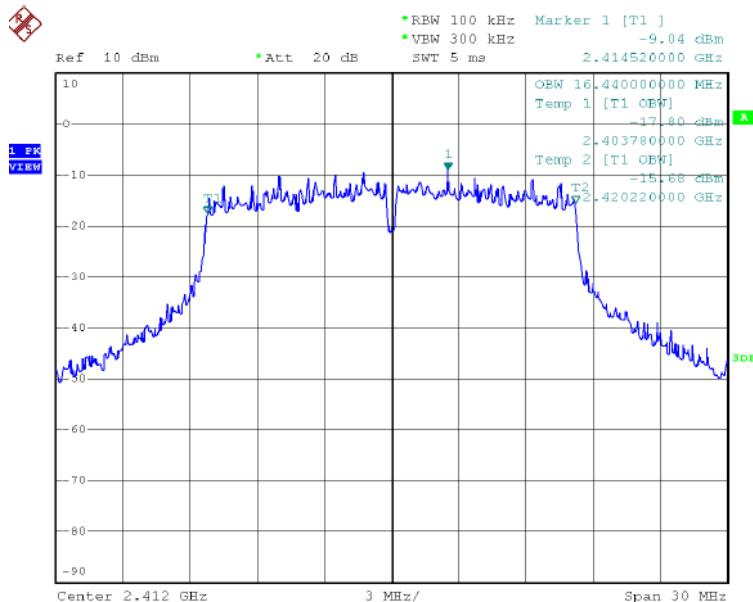
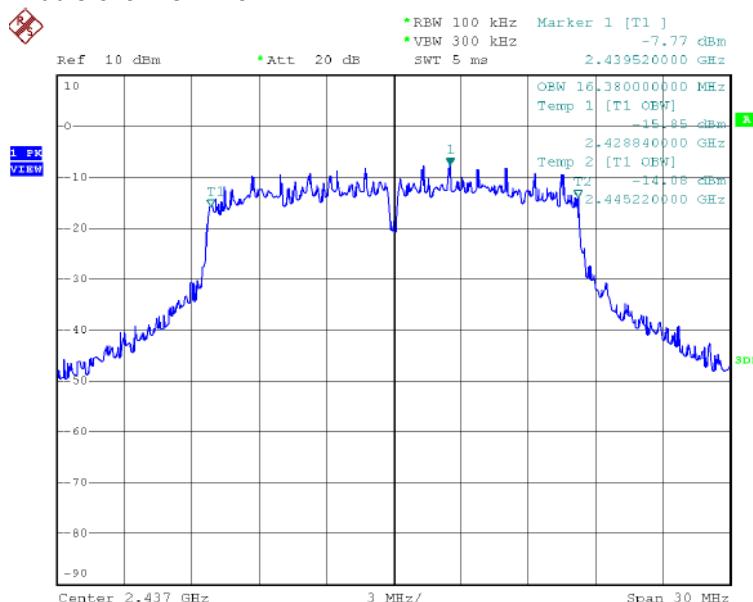


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The EUT communicating with 802.11g Mode

Lowest channel=2412MHz

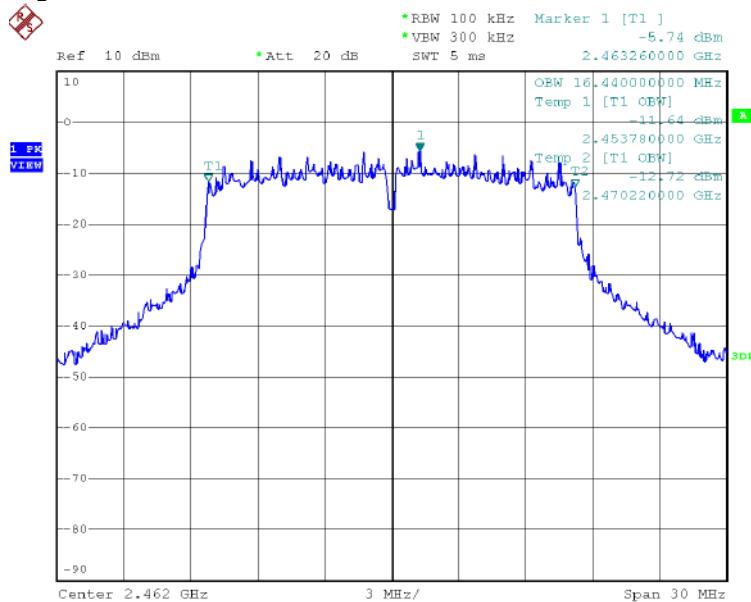
**Middle channel=2437MHz**

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IC ID: 5511A-8700B

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Highest channel=2462MHz

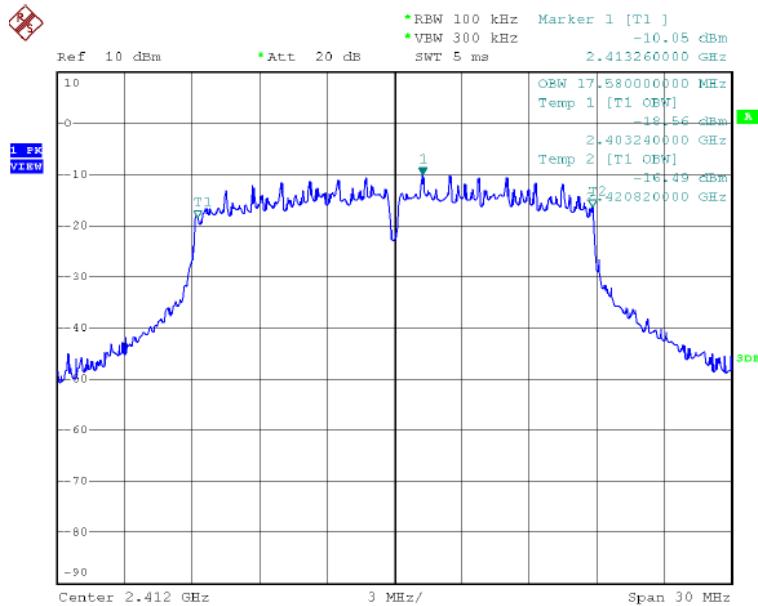


FCC ID: SOV 8700B

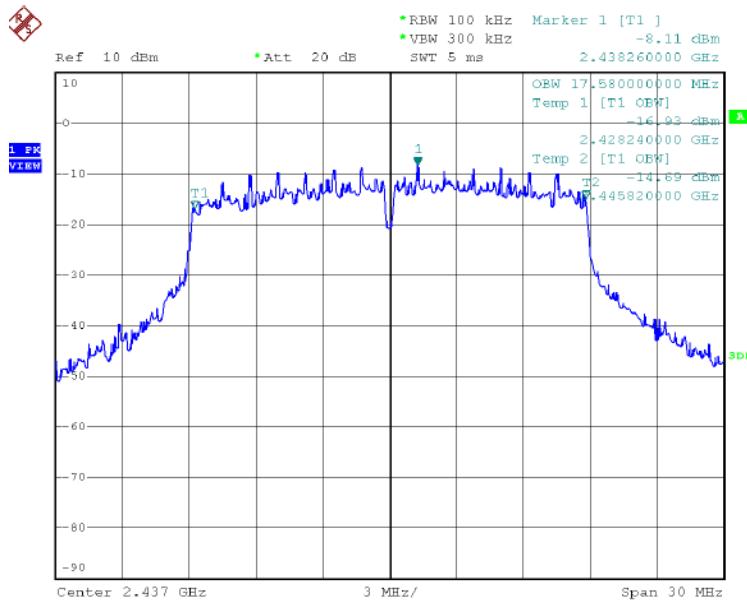
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The EUT communicating with 802.11n Mode
Lowest channel=2412MHz



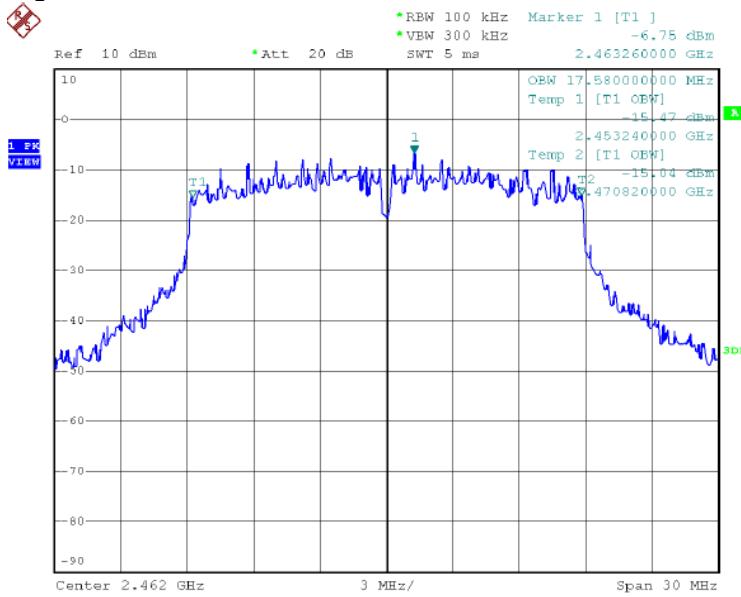
Middle channel=2437MHz



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Highest channel=2462MHz



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5.6 Band Edges and Conducted Spurious Emissions Measurement

| | |
|-------------------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247(d) RSS-210 A 8.5 |
| Test Method: | ANSI C63.4; FCC Part15 C Section 15.247: KDB Publication No. 558074 for DTS |
| Select test data rate: | 11Mbps(802.11b) & 54Mbps(802.11g) & 65Mbps(802.11n) |
| Detector: | RBW=100kHz,VBW=300 KHz (Peak detector) |
| Test Mode: | WIFI transmitting mode |
| Test Voltage: | 120Vac,60Hz |
| Test Date: | 12 June. 2011 |
| Temperature: | 25°C |
| Humidity: | 57% |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |

5.6.1 Test Setup



5.6.2 Test Procedure

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps, 802.11g 6/9/12/18/24/36/48/54Mbps and 802.11n 6.5/13/19.5/26/39/52/58.5/65Mbps) . Following channel(s) was (were) selected for the final test as listed below.

802.11b 11Mbps , 802.11g 54Mbps and 802.11n 65Mbps

5.6.3 Measurement Data

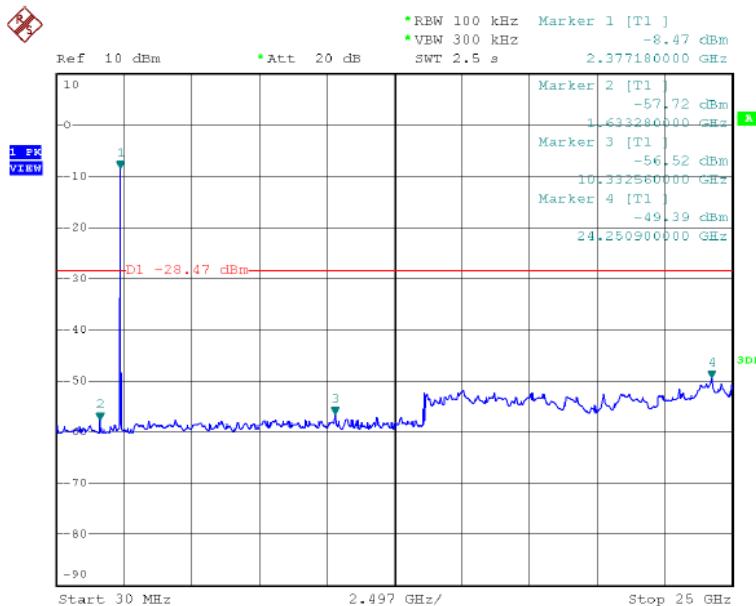
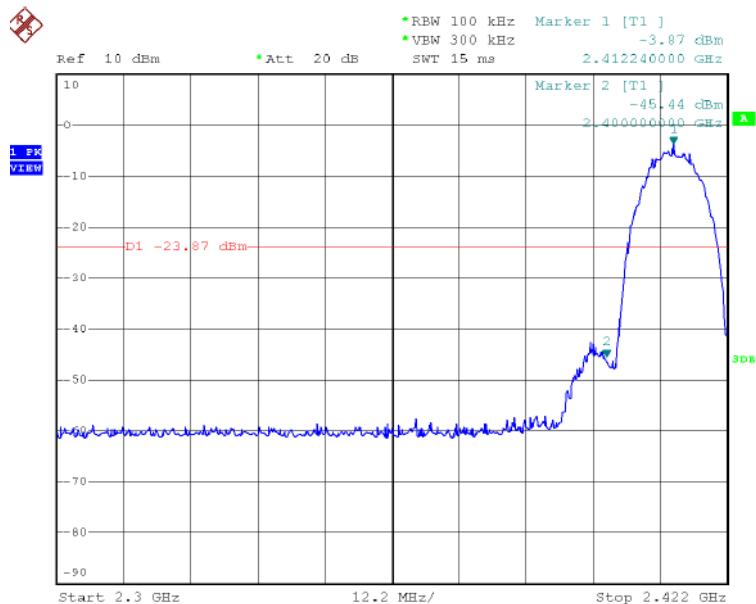
Test result: The unit does meet the requirements.

Test result plot as follows:

FCC ID: SOV 8700B

IC ID: 5511A-8700B

Transmitting mode in lowest channel=2412MHz (802.11b)

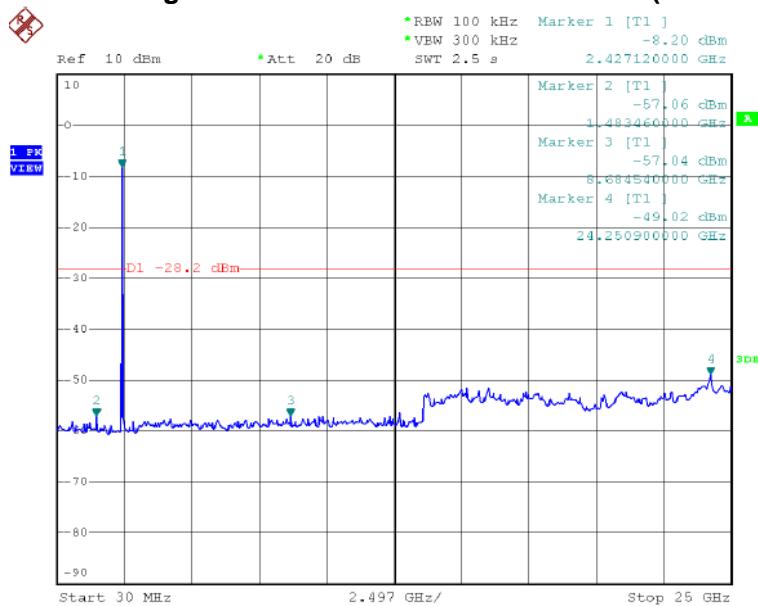


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Transmitting mode in middle channel=2437MHz (802.11b)

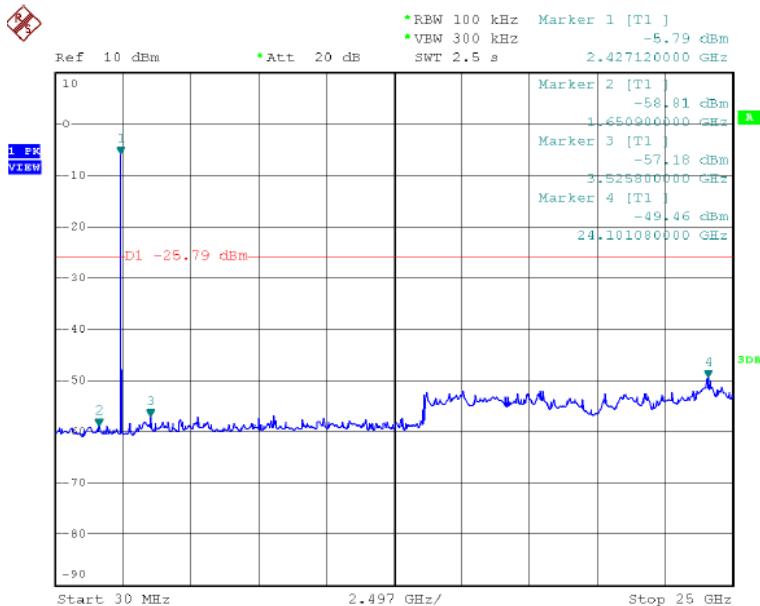
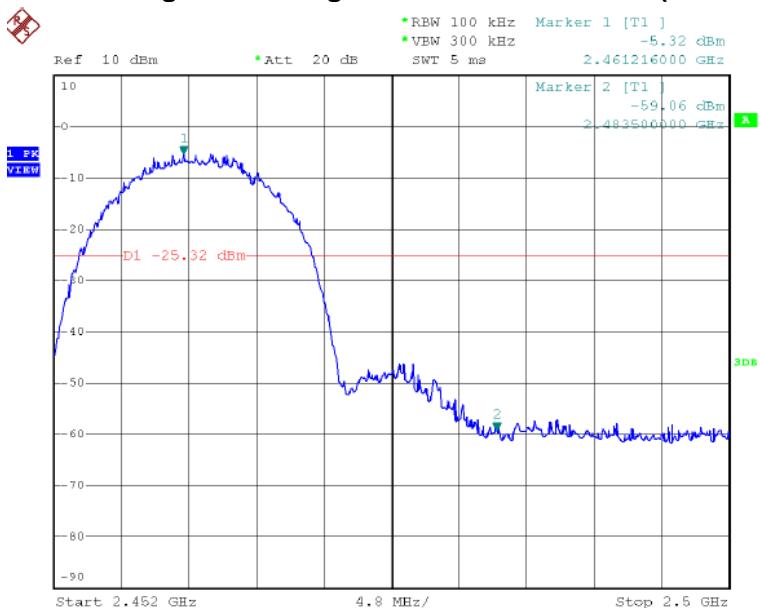


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Transmitting mode in highest channel=2462MHz (802.11b)

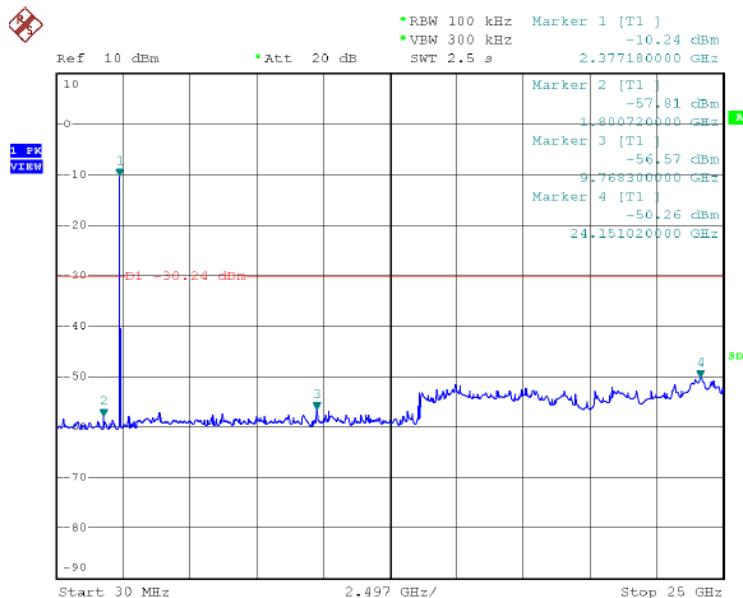
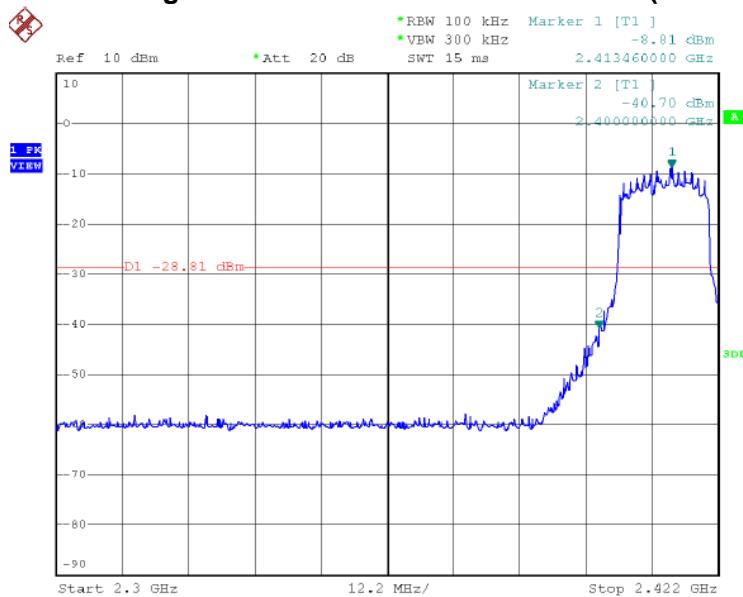


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Transmitting mode in lowest channel=2412MHz (802.11g)

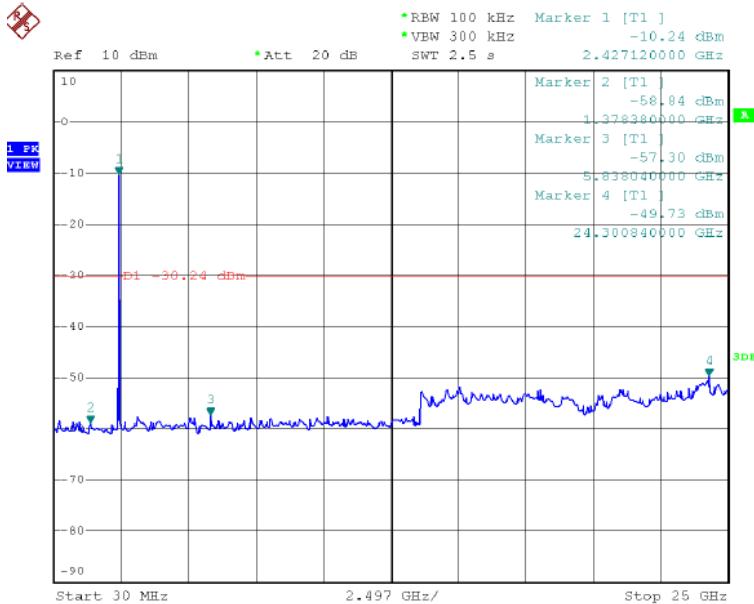


FCC ID: SOV 8700B

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Transmitting mode in middle channel=2437MHz (802.11g)

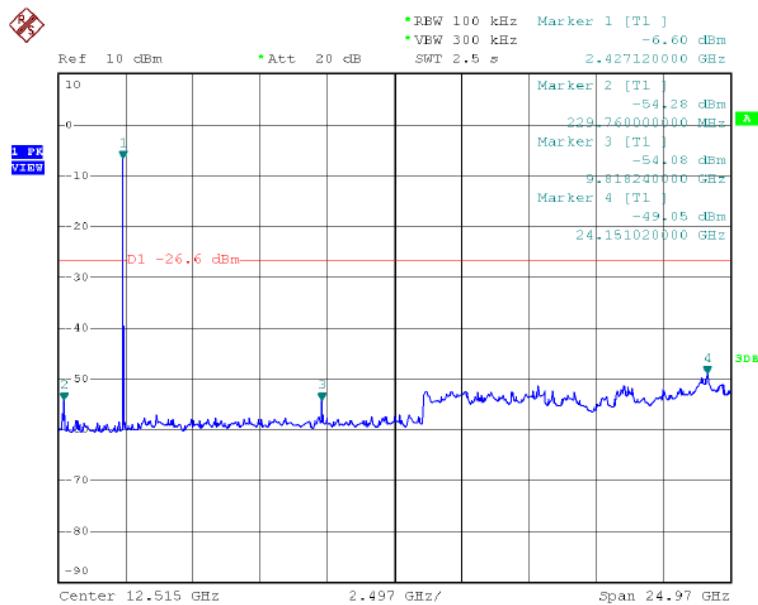
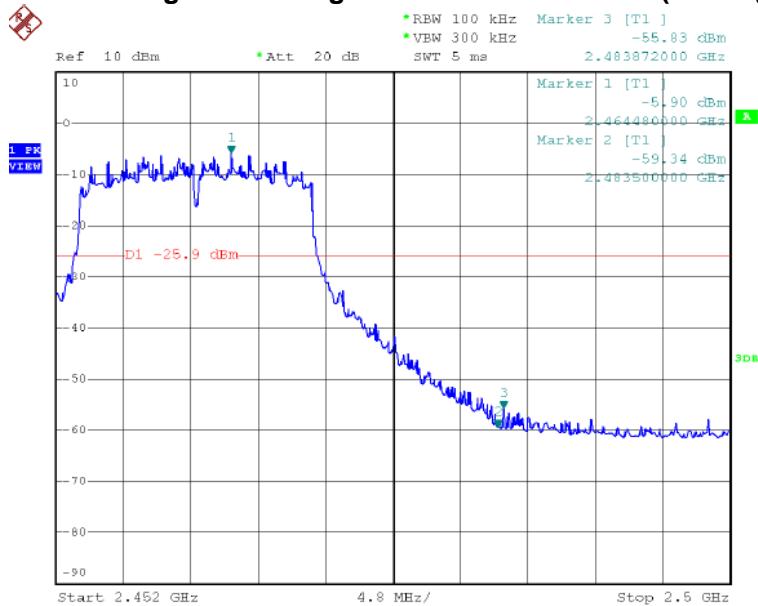


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Transmitting mode in highest channel=2462MHz (802.11g)

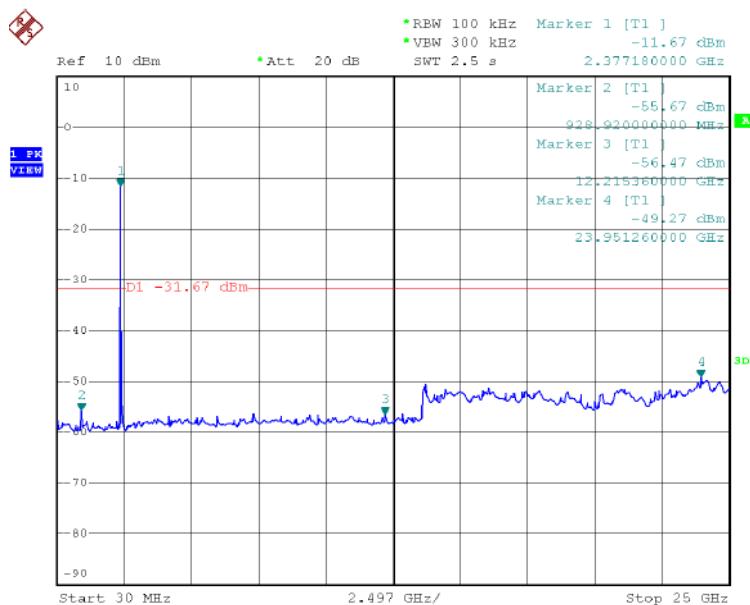
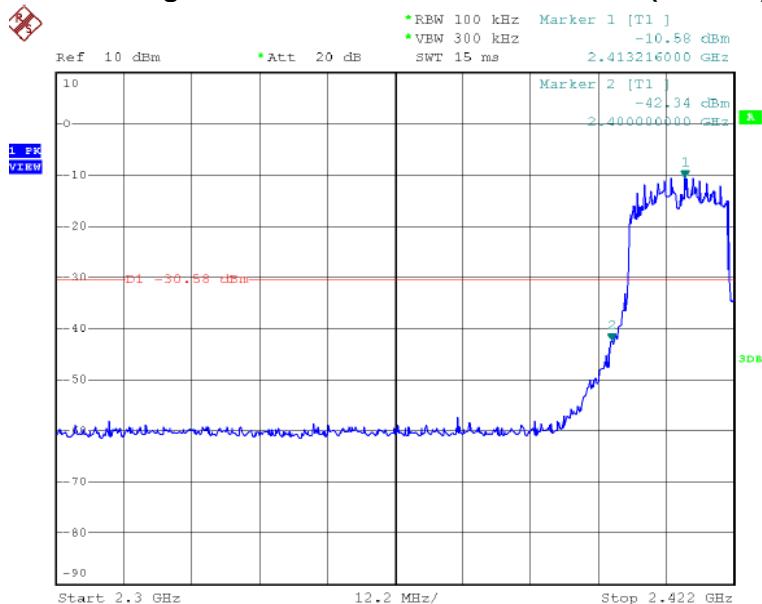


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Transmitting mode in lowest channel=2412MHz (802.11n)

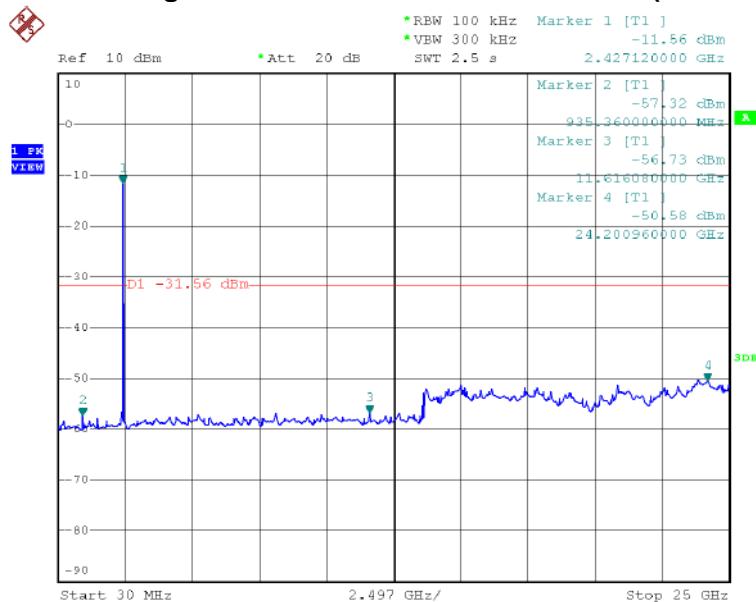


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IC ID: 5511A-8700B

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Transmitting mode in middle channel=2437MHz (802.11n)

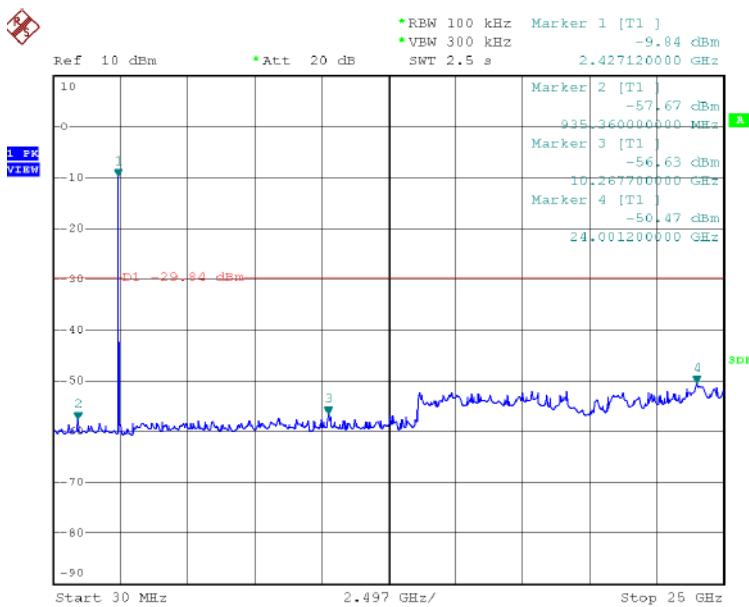
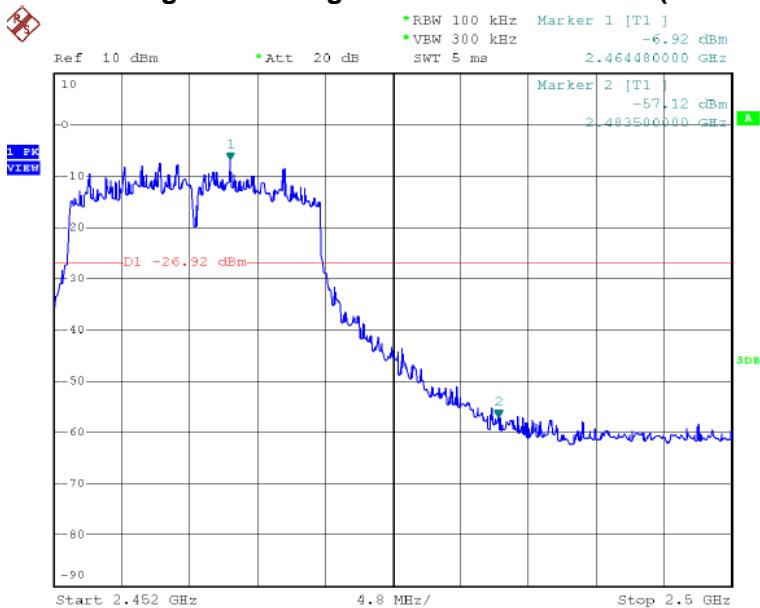


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Transmitting mode in highest channel=2462MHz (802.11n)



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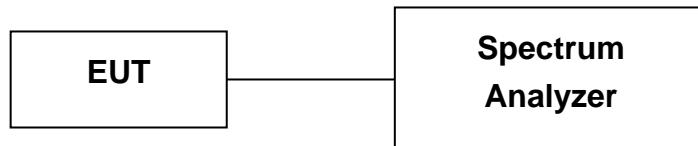
IC ID: 5511A-8700B

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5.7 Power Spectral Density Measurement

| | |
|-------------------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247(d) RSS-210 A 8.2(b) |
| Test Method: | ANSI C63.4; FCC Part15 C Section 15.247: KDB Publication No. 558074 for DTS |
| Select test data rate: | 11Mbps(802.11b) & 54Mbps(802.11g) & 65Mbps(802.11n) |
| Detector: | RBW=3KHz,VBW=10 KHz (Peak detector) |
| Test Mode: | WIFI transmitting mode |
| Test Voltage: | 120Vac,60Hz |
| Test Date: | 17 June. 2011 |
| Temperature: | 24°C |
| Humidity: | 54% |
| Limit: | the peak 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 |

5.7.1 Test Setup



5.7.2 Test Procedure

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps, 802.11g 6/9/12/18/24/36/48/54Mbps and 802.11n 6.5/13/19.5/26/39/52/58.5/65Mbps). Following channel(s) was (were) selected for the final test as listed below.

802.11b 11Mbps , 802.11g 54Mbps and 802.11n 65Mbps

FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.7.3 Measurement Data

For EUT communicating with 802.11b Mode

| Chanel Frequency (GHz) | Power Spectral Density (dBm) | Cable Loss (dB) | Power Spectral Density level (dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------------|-----------------|------------------------------------|-------------|-----------------|
| 2.412 | -18.21 | 0.5 | -17.71 | 8.00 | -25.71 |
| 2.437 | -18.01 | 0.5 | -17.51 | 8.00 | -25.51 |
| 2.462 | -16.14 | 0.5 | -15.64 | 8.00 | -23.64 |

For EUT communicating with 802.11g Mode

| Chanel Frequency (GHz) | Power Spectral Density (dBm) | Cable Loss (dB) | Power Spectral Density level (dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------------|-----------------|------------------------------------|-------------|-----------------|
| 2.412 | -26.25 | 0.5 | -25.75 | 8.00 | -33.75 |
| 2.437 | -25.93 | 0.5 | -25.43 | 8.00 | -33.43 |
| 2.462 | -24.58 | 0.5 | -24.08 | 8.00 | -32.08 |

For EUT communicating with 802.11n Mode

| Chanel Frequency (GHz) | Power Spectral Density (dBm) | Cable Loss (dB) | Power Spectral Density level (dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------------|-----------------|------------------------------------|-------------|-----------------|
| 2.412 | -26.29 | 0.5 | -25.79 | 8.00 | -33.79 |
| 2.437 | -26.01 | 0.5 | -25.51 | 8.00 | -33.51 |
| 2.462 | -24.70 | 0.5 | -24.20 | 8.00 | -32.20 |

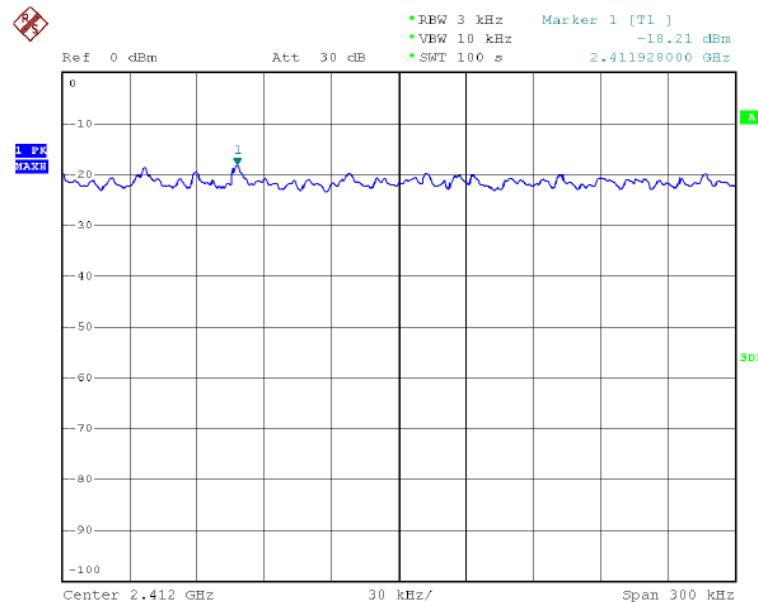
Test result: The unit does meet the FCC requirements.**Test result plot as follows:**

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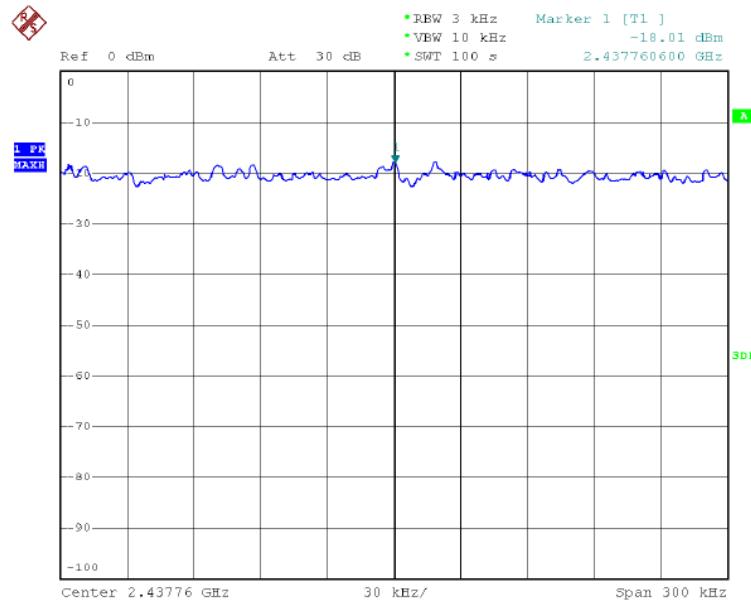
IC ID: 5511A-8700B

The EUT communicating with 802.11b Mode

Lowest channel=2412MHz



Middle channel=2437MHz

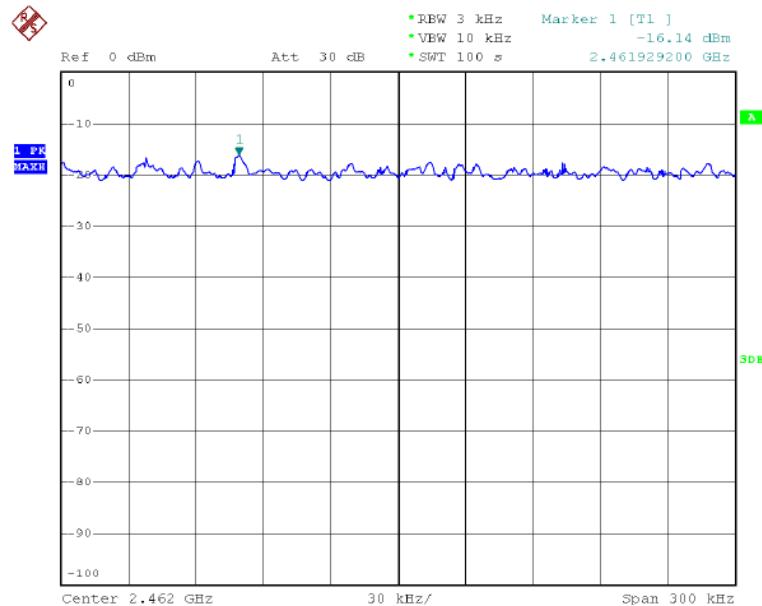


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Highest channel=2462MHz



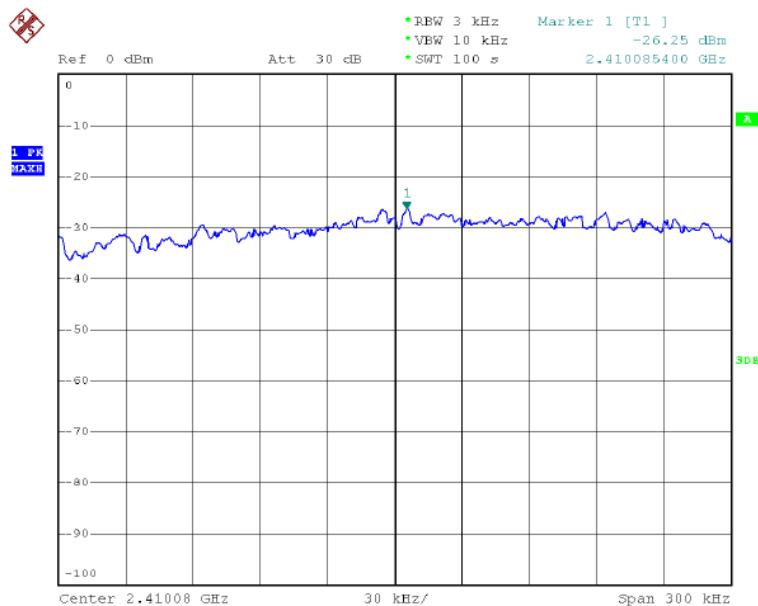
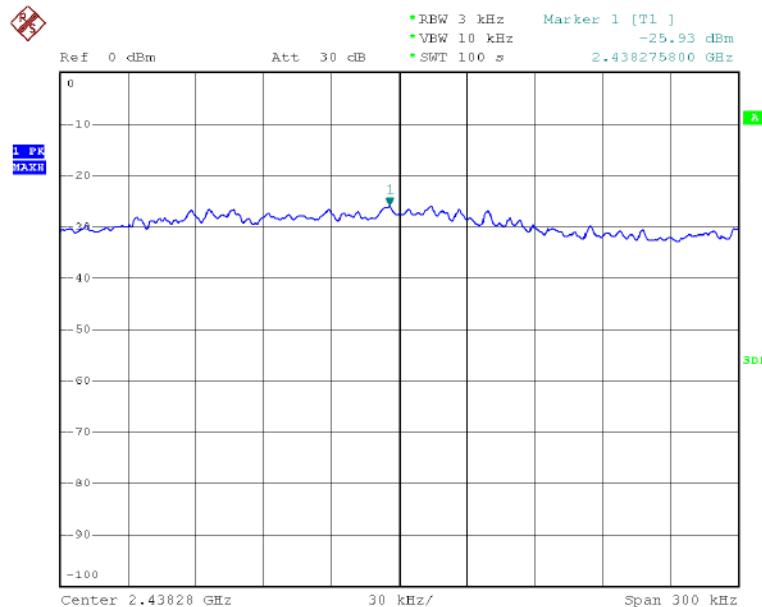
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The EUT communicating with 802.11g Mode

Lowest channel=2412MHz

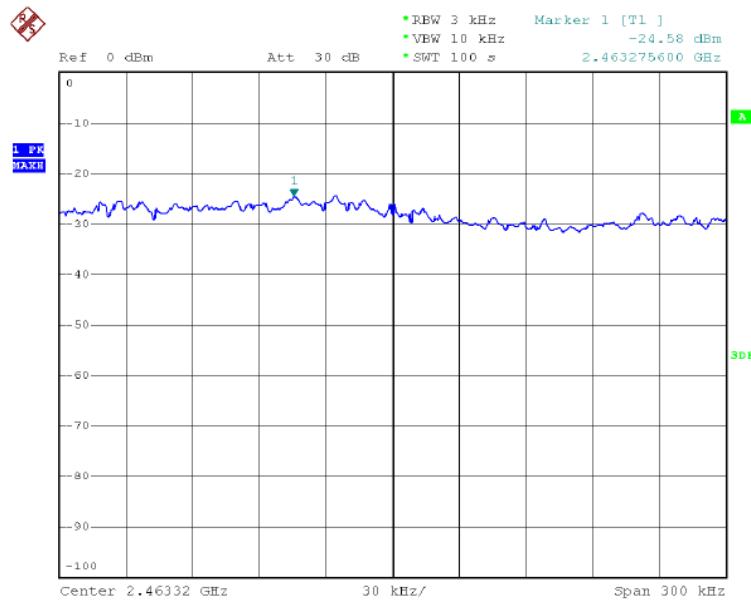
**Middle channel=2437MHz**

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Highest channel=2462MHz



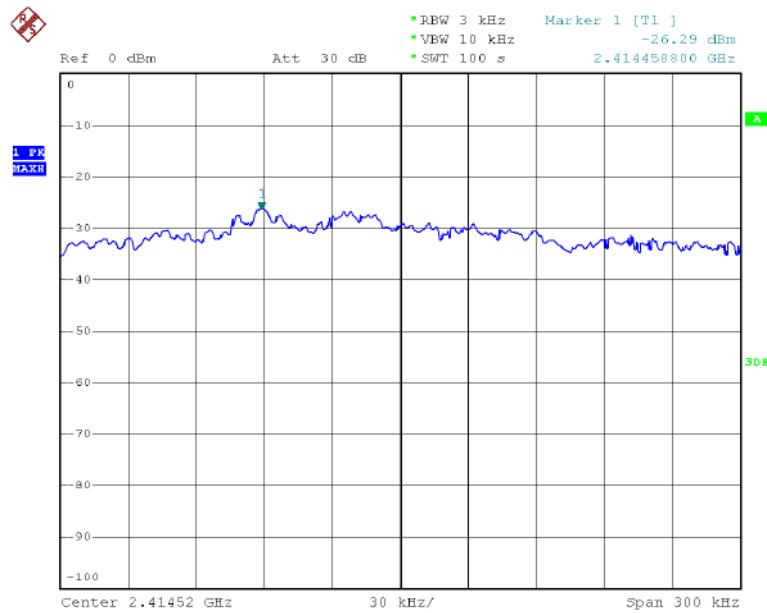
FCC ID: SOV 8700B

IC ID: 5511A-8700B

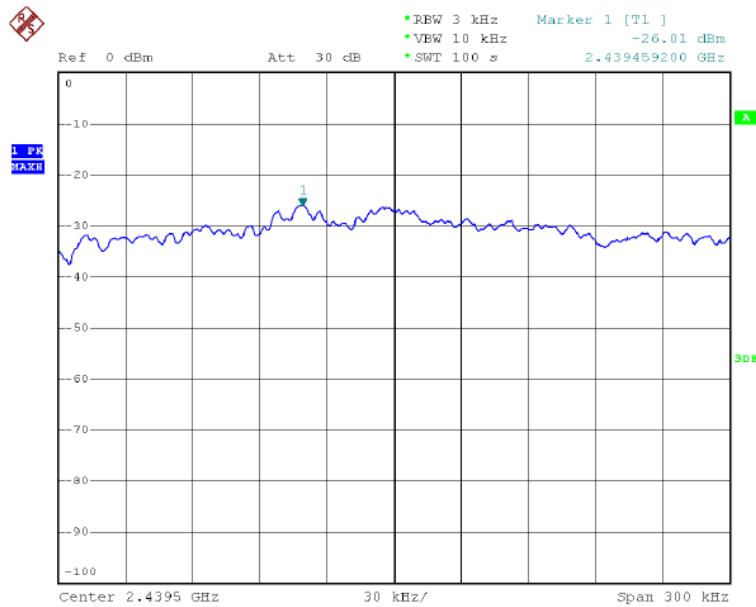
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The EUT communicating with 802.11n Mode

Lowest channel=2412MHz



Middle channel=2437MHz

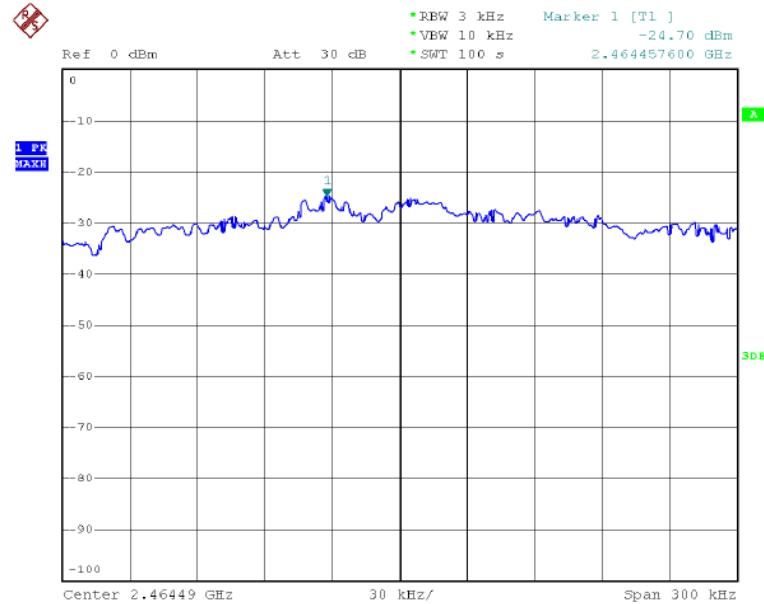


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Highest channel=2462MHz



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5.8 Antenna Requirement

EUT Antenna

Standard requirement

15.203 requirement:

For intentional device. According to 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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

The antenna is soldering on the PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

FCC ID: SOV 8700B

IC ID: 5511A-8700B

5.9 RF Exposure Compliance

Standard requirement

15.247(b)(4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section. if transmitting antennas of directional gain greater than 6 dBi are used. the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1). (b)(2). and (b)(3) of this section. as appropriate. by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-102 Section 2.5.1 requirement:

above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use;

EUT RF Exposure

The Max Conducted Peak Output Power is 12.53dBm(17.91mW) in the Middle channel (2.437GHz);

The best case gain of the antenna is 0dBi.

calculate the EIRP test result:

EIRP= 17.91mW ①

SAR requirement:

$S = 60 / f(\text{GHz}) = 60 / 2.437 = 24.62 \text{ mW}$ ② ;

① < 20mW < ②.

So the SAR report is not required.

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