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Report No.: FCC11-RTE111101
Page 1 of 62

FCC REPORT

Applicant: Archos SA

Address of Applicant: 12 Rue Ampere Igny 91430 France

Equipment Under Test (EUT)

Product Name: Home Tablet

Model No.: AN10BG2

Trade mark: ARNOVA

FCC ID: SOVAN10BG2

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010

Date of sample receipt: Oct. 24, 2011

Date of Test: Oct. 24-Nov.09, 2011

Date of report issued: Nov.11, 2011

Test Result : PASS *

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

Authorized Signature:

Kavin Yu
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

| Version No. | Date | Description |
|-------------|--------------|-------------|
| 00 | Nov.11, 2011 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

Collin He

Date:

Nov.11, 2011

Project Engineer

Check By:

Hans Hu

Date:

Nov.11, 2011

Reviewer



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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement | 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| 6dB Occupied Bandwidth | 15.247 (a)(2) | Pass |
| Power Spectral Density | 15.247 (e) | Pass |
| Band Edge | 15.247(d) | Pass |
| Spurious Emission | 15.205/15.209 | Pass |

Pass: The EUT complies with the essential requirements in the standard.




5 General Information

5.1 Client Information

| | |
|--------------------------|--|
| Applicant: | Archos SA |
| Address of Applicant: | 12 Rue Ampere Igny 91430 France |
| Manufacturer: | Archos SA |
| Address of Manufacturer: | 12 Rue Ampere Igny 91430 France |
| Factory: | Shenzhen Shenchuang Electronics Co.,Ltd |
| Address of Factory: | 7th floor,West Tower,Hengfanglaobing Industrial Park, Xingye Road,Xixiang Town,Bao'an District,Shenzhen |

5.2 General Description of E.U.T.

| | |
|--|--|
| Product Name: | Home Tablet |
| Model No.: | AN10BG2 |
| Trade mark: | ARNOVA |
| Operation Frequency: | 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40)) |
| Channel numbers: | 11 for 802.11b/802.11g/802.11(H20) 7 for 802.11(H40) |
| Channel separation: | 5MHz |
| Modulation technology: (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Modulation technology: (IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM) |
| Data speed (IEEE 802.11b): | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps |
| Data speed (IEEE 802.11g): | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps |
| Data speed (IEEE 802.11n): | Up to 150Mbps |
| Antenna Type: | Integral |
| Antenna gain: | 2dBi |
| AC adapter: | Trade mark:  Model :HNC050200X Input:100-240V-0.35A(MAX)50/60Hz Output:5.0V-2A |
| Power supply: | DC 3.7V (Lithium battery) |

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| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n(H20)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2412MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2462MHz |

802.11n(H40)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2422MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2452MHz |



5.3 Test environment and mode

| Operating Environment: | |
|------------------------|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test mode: | |
| WIFI mode | Keep the EUT in browsing information by wireless router. |
| Transmitting mode: | Keep the EUT in transmitting mode at the fix channel and worse data rate. |

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

| Mode | Data rate |
|--------------|-----------|
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(H20) | 6.5Mbps |
| 802.11n(H40) | 13.0Mbps |

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13Mbps for 802.11n(H40)

5.4 Test Facility

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

FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen 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 600491, July 20, 2010.

Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

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5.6 Other Information Requested by the Customer

None.

5.7 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|----------------------------------|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | Mar. 30 2011 | Mar. 29 2012 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | Jul. 04 2011 | Jul. 03 2012 |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | Feb. 26 2011 | Feb. 25 2012 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June 30 2011 | June 29 2012 |
| 6 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 30 2011 | Mar. 29 2012 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 8 | Coaxial Cable | GTS | N/A | GTS213 | Apr. 01 2011 | Mar. 31 2012 |
| 9 | Coaxial Cable | GTS | N/A | GTS211 | Apr. 01 2011 | Mar. 31 2012 |
| 9 | Coaxial cable | GTS | N/A | GTS210 | Apr. 01 2011 | Mar. 31 2012 |
| 11 | Coaxial Cable | GTS | N/A | GTS212 | Apr. 01 2011 | Mar. 31 2012 |
| 12 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | Jul. 04 2011 | Jul. 03 2012 |
| 13 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | Jul. 04 2011 | Jul. 03 2012 |
| 14 | Pre-amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 30 2011 | June 29 2012 |
| 15 | Band filter | Amindeon | 82346 | GTS219 | June 30 2011 | June 29 2012 |

| Conducted Emission: | | | | | | |
|---------------------|-------------------|--------------------------------|----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongYu Electron | 7.0(L)x3.0(W)x3.0(H) | GTS252 | Jul. 04 2011 | Jul. 03 2012 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | Jul. 04 2011 | Jul. 03 2012 |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | Jul. 04 2011 | Jul. 03 2012 |
| 4 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | Jul. 04 2011 | Jul. 03 2012 |
| 5 | Coaxial Cable | GTS | N/A | GTS227 | Apr. 01 2011 | Mar. 31 2012 |
| 6 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |

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6 Test results and Measurement Data

6.1 Antenna requirement:

| | |
|---|-------------------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
| <i>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi 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 6dBi.</i> | |
| E.U.T Antenna: | |
| <i>The antenna is internal, can not be replaced by user, the best case gain of the antenna is 2.0dBi.</i> | |



6.2 Conducted Emissions

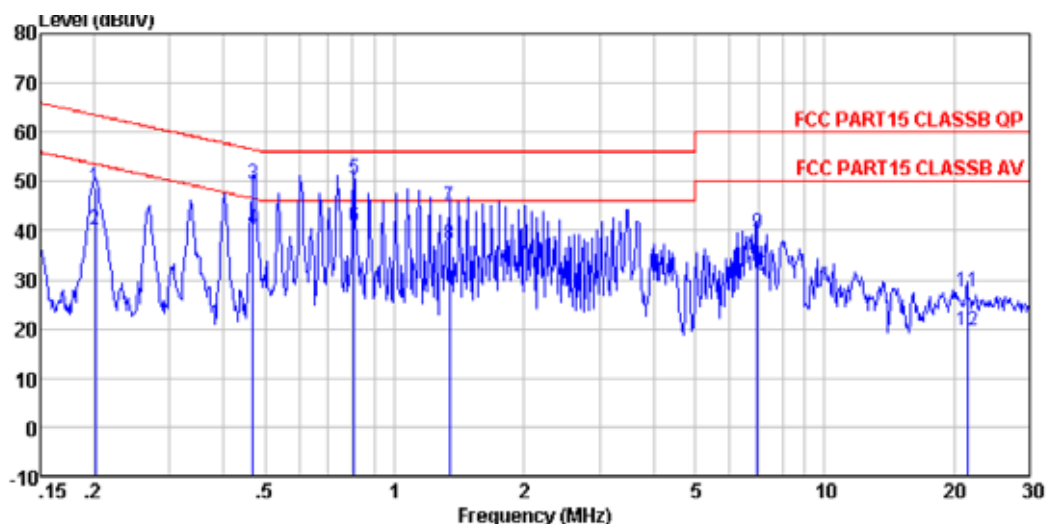
| | | | |
|--|--|--------------|-----------|
| Test Requirement: | FCC Part15 C Section 15.207 | | |
| Test Method: | ANSI C63.4: 2009 | | |
| Test Frequency Range: | 150KHz to 30MHz | | |
| Class / Severity: | Class B | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz | | |
| Limit: | Frequency range (MHz) | 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. | | | |
| Test procedure | <ol style="list-style-type: none">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement. | | |
| Test setup: | <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p> | | |
| Test Instruments: | Refer to section 5.7 for details | | |
| Test mode: | WIFI mode | | |
| Test results: | Passed | | |

Measurement Data

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Live Line:

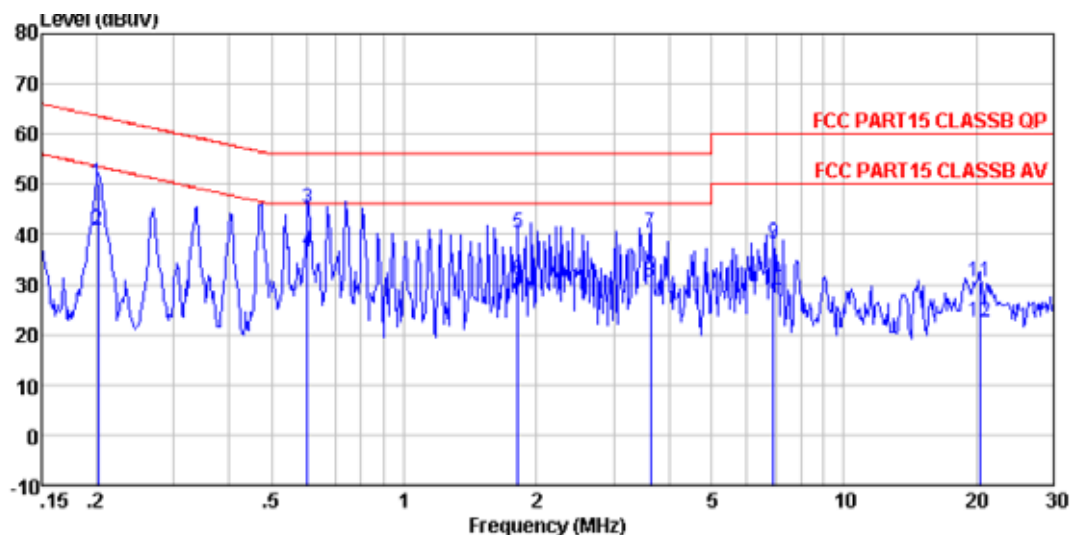


Condition : FCC PART15 CLASSB QP LISN(2011) LINE
Job No. : 861RF
Test Mode : WIFI mode
Test Engineer: Oscar

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.202 | 48.15 | 0.66 | 0.10 | 48.91 | 63.54 | -14.63 | QP |
| 2 | 0.202 | 39.47 | 0.66 | 0.10 | 40.23 | 53.54 | -13.31 | Average |
| 3 | 0.469 | 48.66 | 0.56 | 0.10 | 49.32 | 56.54 | -7.22 | QP |
| 4 | 0.469 | 39.63 | 0.56 | 0.10 | 40.29 | 46.54 | -6.25 | Average |
| 5 | 0.804 | 49.82 | 0.50 | 0.10 | 50.42 | 56.00 | -5.58 | QP |
| 6 | 0.804 | 40.22 | 0.50 | 0.10 | 40.82 | 46.00 | -5.18 | Average |
| 7 | 1.345 | 44.36 | 0.44 | 0.10 | 44.90 | 56.00 | -11.10 | QP |
| 8 | 1.345 | 36.49 | 0.44 | 0.10 | 37.03 | 46.00 | -8.97 | Average |
| 9 | 6.988 | 39.11 | 0.26 | 0.14 | 39.51 | 60.00 | -20.49 | QP |
| 10 | 6.988 | 30.53 | 0.26 | 0.14 | 30.93 | 50.00 | -19.07 | Average |
| 11 | 21.486 | 27.18 | 0.14 | 0.21 | 27.53 | 60.00 | -32.47 | QP |
| 12 | 21.486 | 19.27 | 0.14 | 0.21 | 19.62 | 50.00 | -30.38 | Average |



Neutral Line:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL
Job No. : 861RF
Test Mode : WIFI mode
Test Engineer: Oscar

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|----|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.202 | 49.49 | 0.66 | 0.10 | 50.25 | 63.54 | -13.29 | QP |
| 2 | 0.202 | 40.21 | 0.66 | 0.10 | 40.97 | 53.54 | -12.57 | Average |
| 3 | 0.604 | 44.41 | 0.53 | 0.10 | 45.04 | 56.00 | -10.96 | QP |
| 4 | 0.604 | 35.97 | 0.53 | 0.10 | 36.60 | 46.00 | -9.40 | Average |
| 5 | 1.819 | 39.58 | 0.41 | 0.10 | 40.09 | 56.00 | -15.91 | QP |
| 6 | 1.819 | 30.46 | 0.41 | 0.10 | 30.97 | 46.00 | -15.03 | Average |
| 7 | 3.642 | 39.58 | 0.33 | 0.10 | 40.01 | 56.00 | -15.99 | QP |
| 8 | 3.642 | 30.11 | 0.33 | 0.10 | 30.54 | 46.00 | -15.46 | Average |
| 9 | 6.914 | 37.90 | 0.26 | 0.14 | 38.30 | 60.00 | -21.70 | QP |
| 10 | 6.914 | 28.51 | 0.26 | 0.14 | 28.91 | 50.00 | -21.09 | Average |
| 11 | 20.486 | 30.25 | 0.14 | 0.21 | 30.60 | 60.00 | -29.40 | QP |
| 12 | 20.486 | 22.23 | 0.14 | 0.21 | 22.58 | 50.00 | -27.42 | Average |

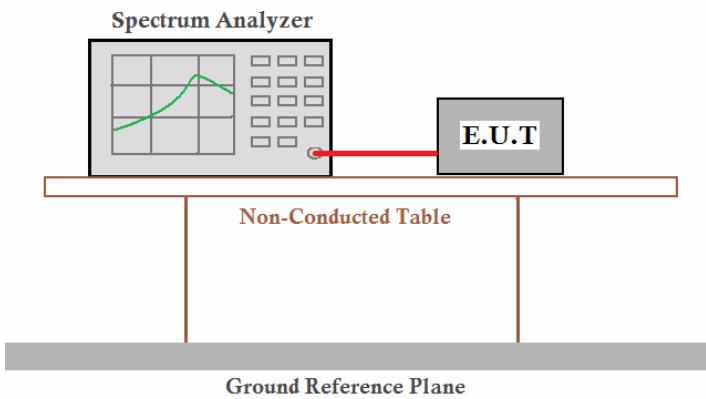
Notes:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Final Level = Receiver Read level + LISN Factor + Cable Loss

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6.3 Conducted Peak Output Power

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.4:2009 and KDB558074 |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.7 for details |
| Test mode: | Transmitting mode |
| Test results: | Passed |

Measurement Data

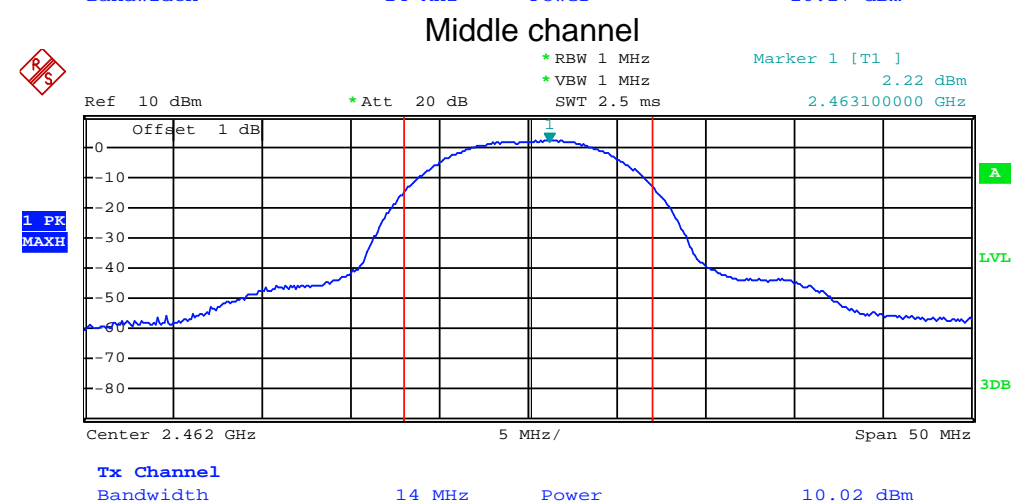
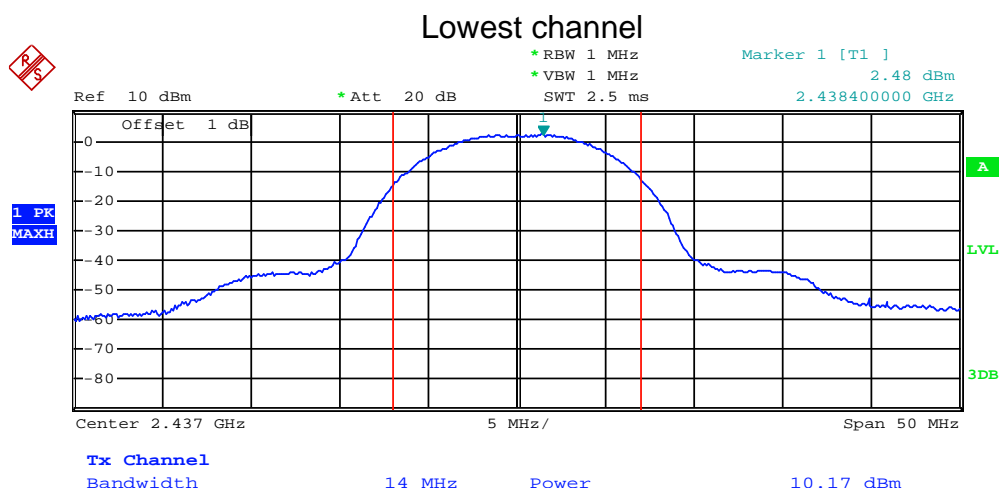
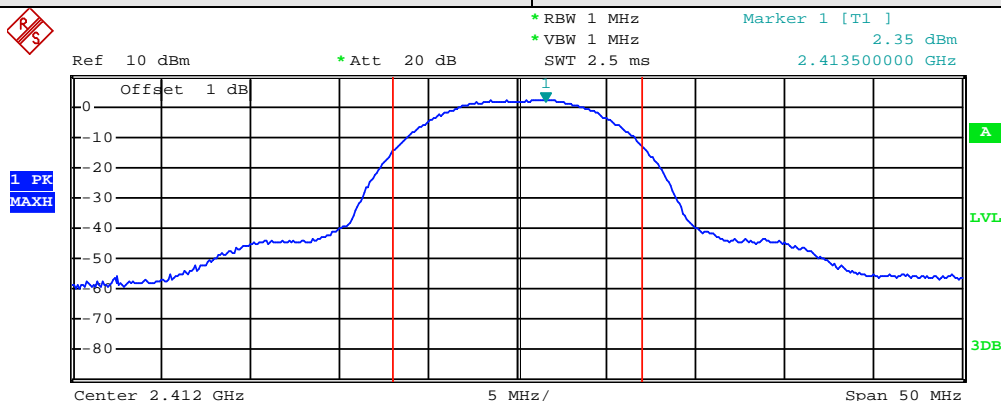
| Test CH | Peak Output Power (dBm) | | | | Limit(dBm) | Result |
|---------|-------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 10.16 | 9.97 | 10.51 | 10.84 | 30.00 | Pass |
| Middle | 10.17 | 10.20 | 10.26 | 10.39 | | |
| Highest | 10.02 | 10.47 | 10.74 | 10.21 | | |

Test plot as follows:

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| | |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|

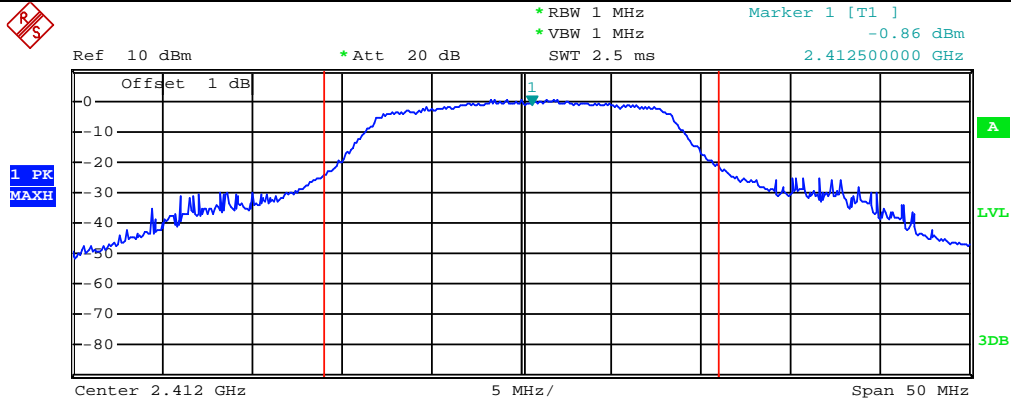


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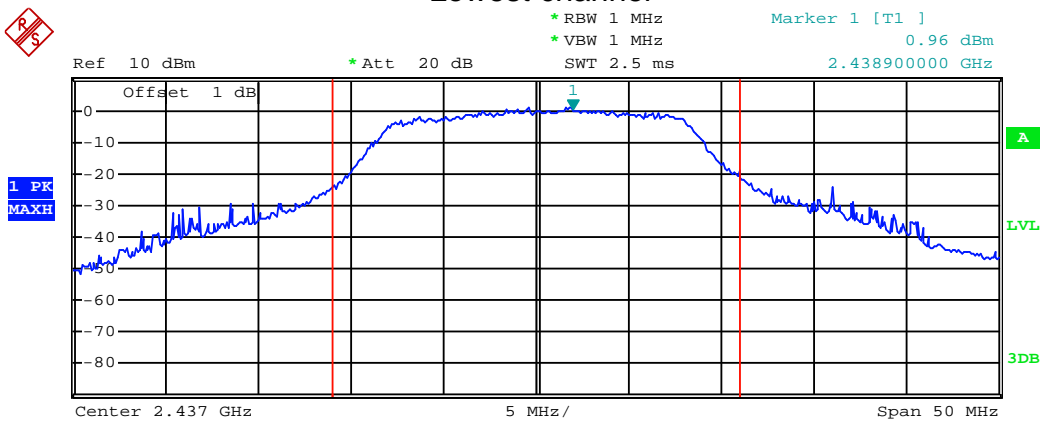


Test mode:

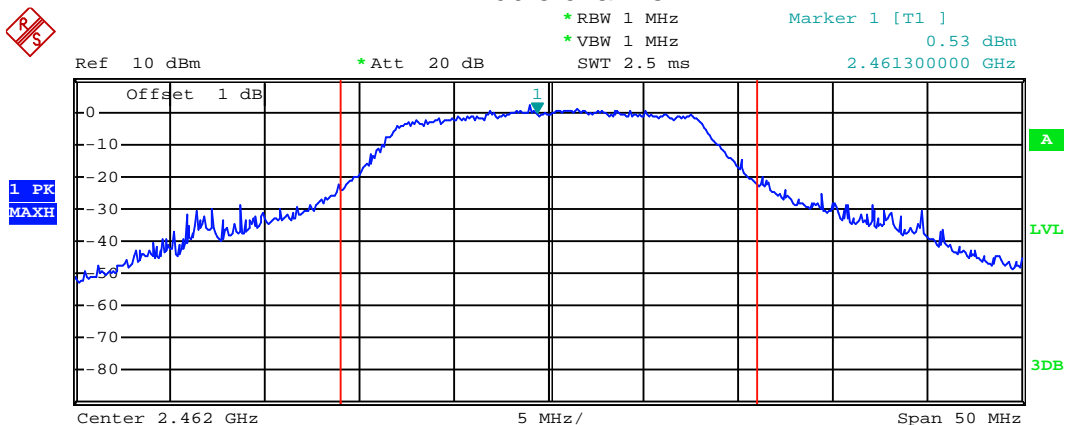
802.11g



Lowest channel



Middle channel



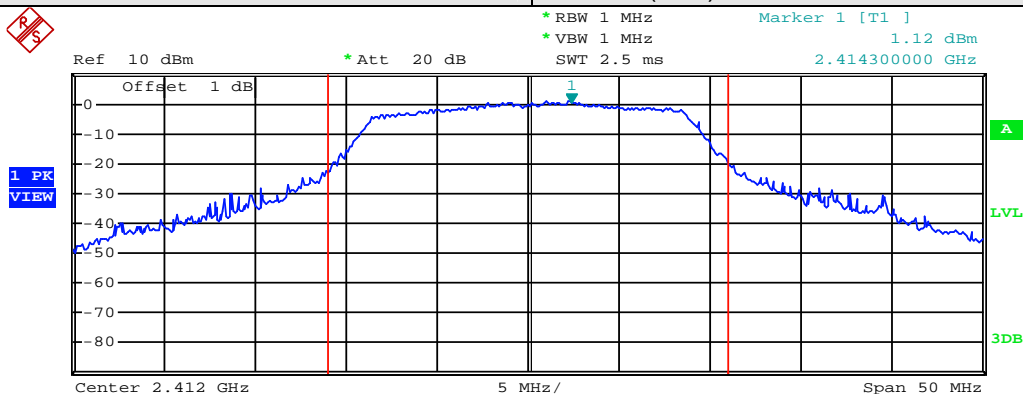
Highest channel

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Test mode:

802.11n(H20)



Tx Channel

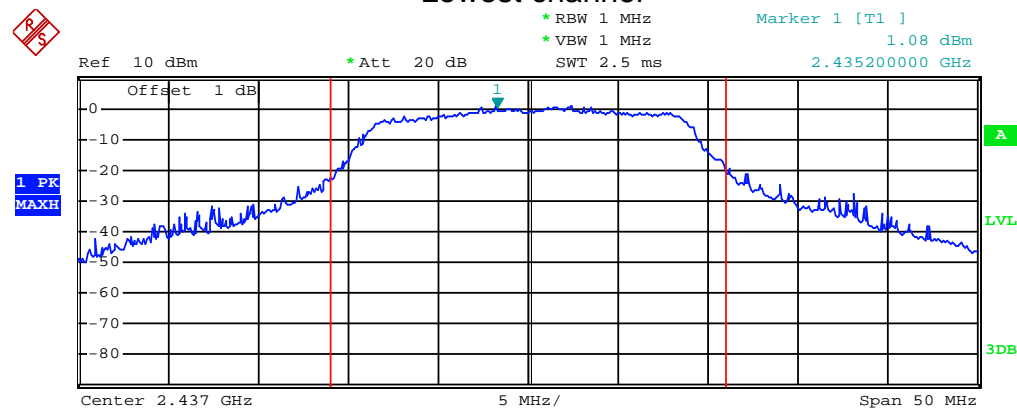
Bandwidth

22 MHz

Power

10.51 dBm

Lowest channel



Tx Channel

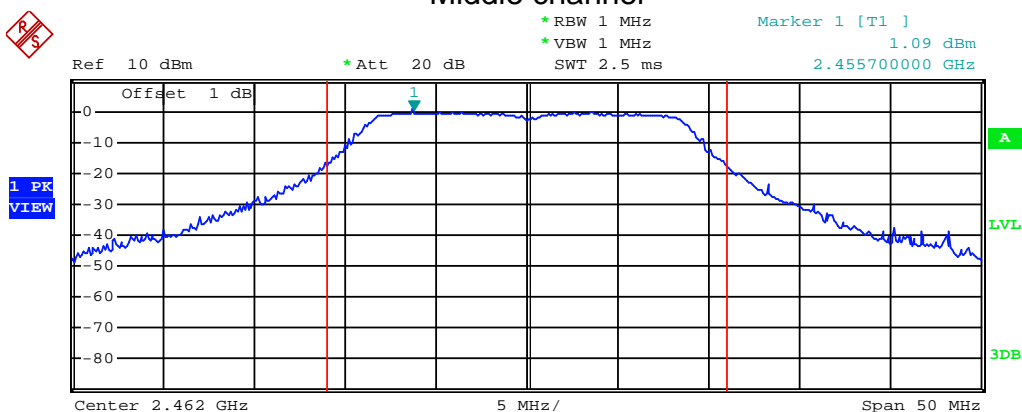
Bandwidth

22 MHz

Power

10.26 dBm

Middle channel



Tx Channel

Bandwidth

22 MHz

Power

10.74 dBm

Highest channel

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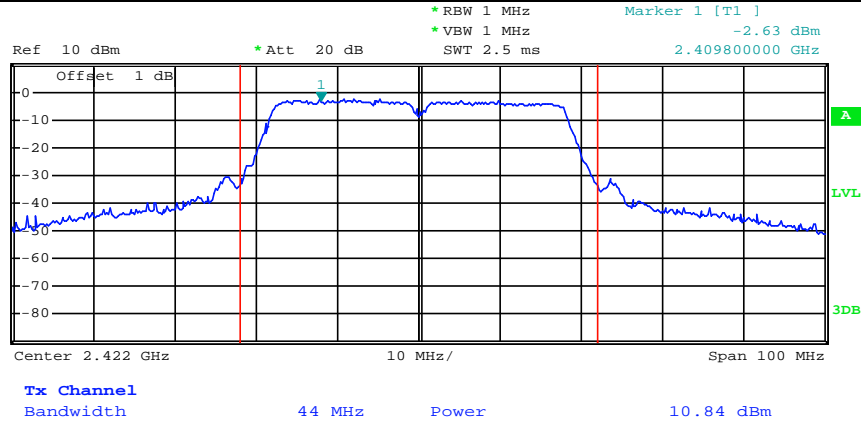


Test mode:

802.11n(H40)



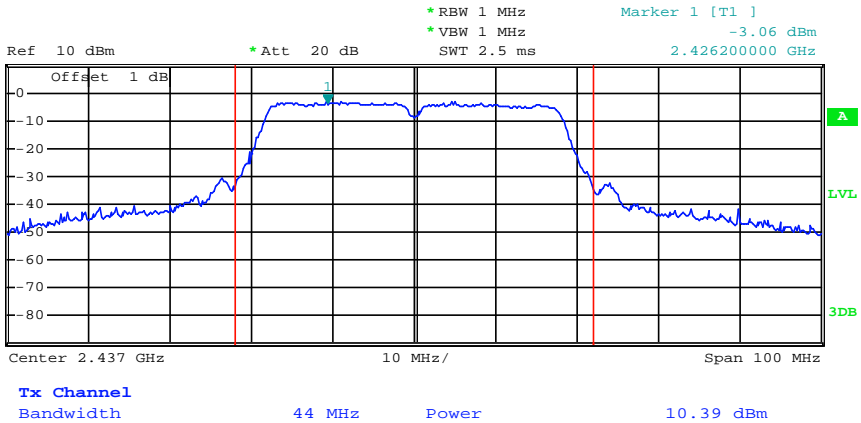
1 PK
VIEW



Lowest channel



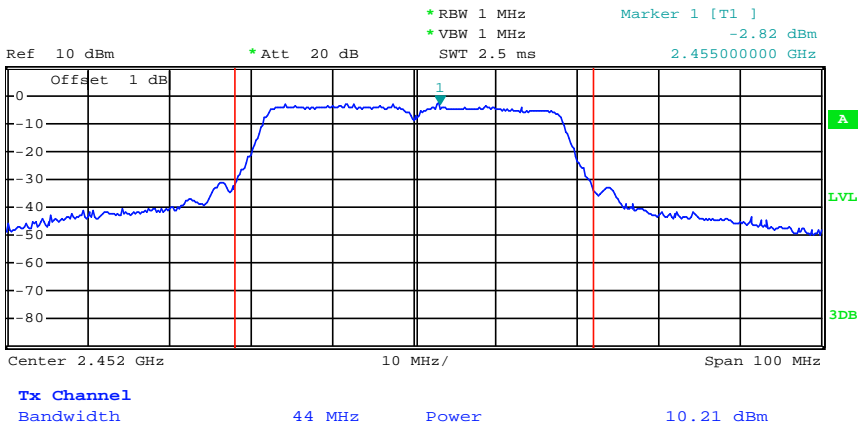
1 PK
VIEW



Middle channel



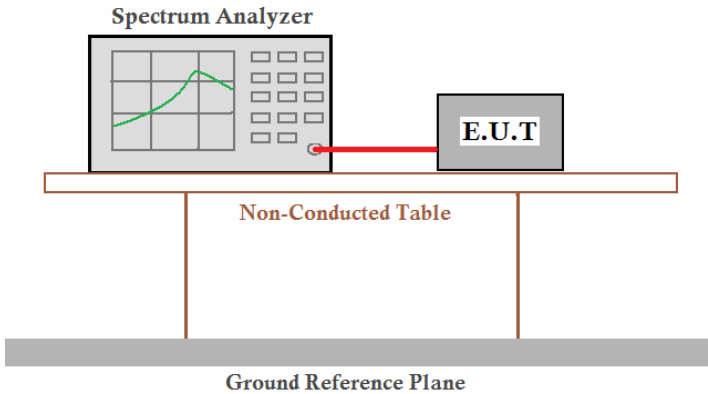
1 PK
MAXH



Highest channel



6.4 6dB Occupy Bandwidth

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.4:2009 and KDB558074 |
| Limit: | >500KHz |
| Test setup: |  |
| Test Instruments: | Refer to section 5.7 for details |
| Test mode: | Transmitting mode |
| Test results: | Passed |

Measurement Data

| Test CH | 6dB Occupy Bandwidth (MHz) | | | | Limit(KMHz) | Result |
|---------|----------------------------|---------|--------------|--------------|-------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 8.56 | 15.72 | 16.40 | 35.70 | >500 | Pass |
| Middle | 9.68 | 15.72 | 16.36 | 35.70 | | |
| Highest | 9.24 | 15.72 | 16.04 | 36.00 | | |

Test plot as follows:

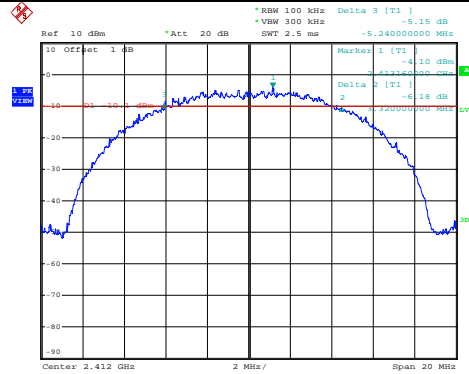


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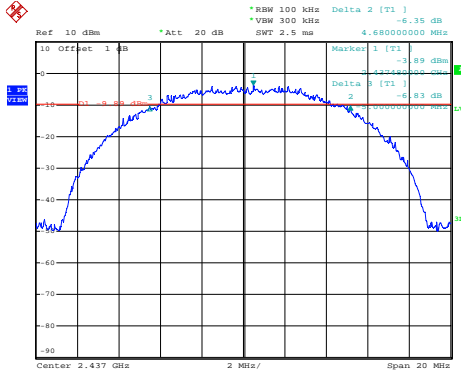
Test mode:

802.11b



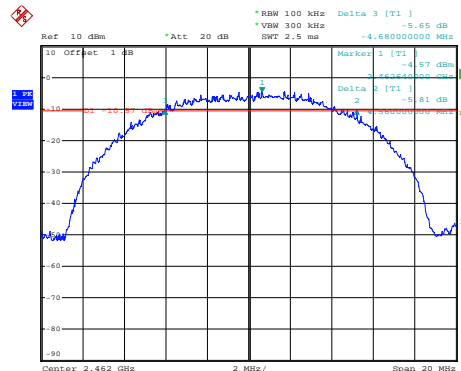
Date: 7.NOV.2011 07:02:22

Lowest channel



Date: 7.NOV.2011 07:10:13

Middle channel



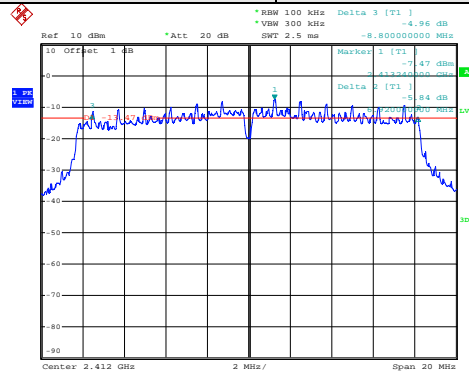
Date: 7.NOV.2011 09:25:26

Highest channel

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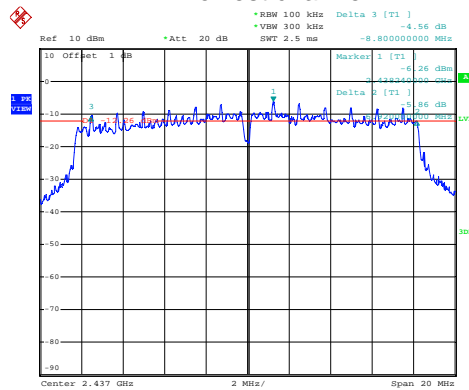
Test mode:

802.11g



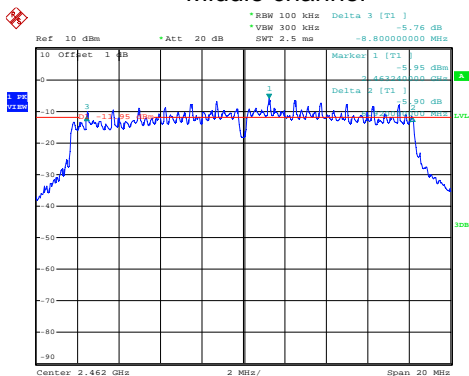
Date: 7.NOV.2011 09:33:03

Lowest channel



Date: 7.NOV.2011 09:41:31

Middle channel



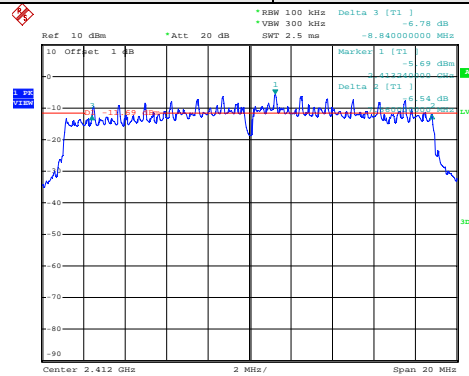
Date: 7.NOV.2011 09:46:55

Highest channel

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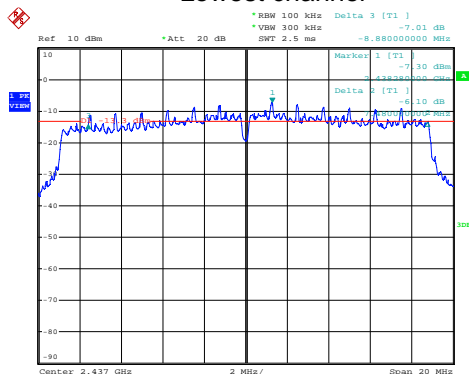
Test mode:

802.11n(H20)



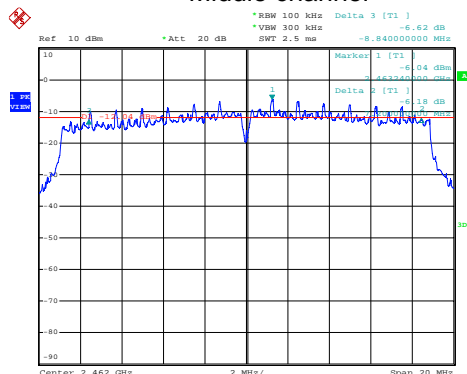
Date: 7.NOV.2011 09:51:05

Lowest channel



Date: 7.NOV.2011 10:05:04

Middle channel



Date: 7.NOV.2011 10:09:31

Highest channel

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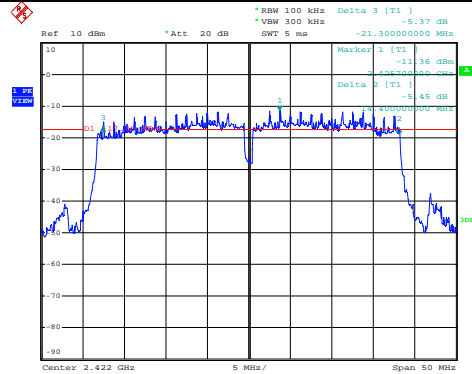
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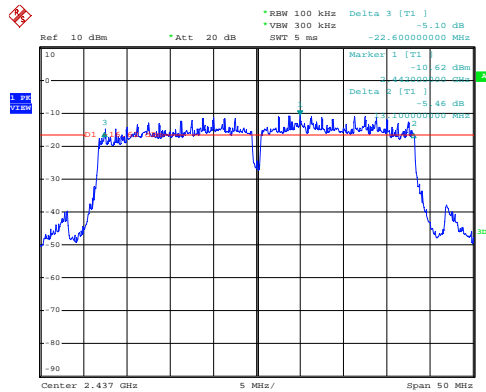
Test mode:

802.11n(H40)



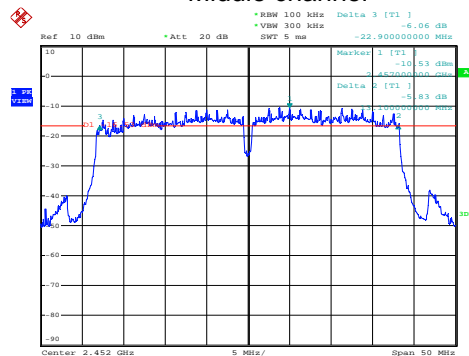
Date: 7.NOV.2011 10:18:22

Lowest channel



Date: 7.NOV.2011 10:26:09

Middle channel



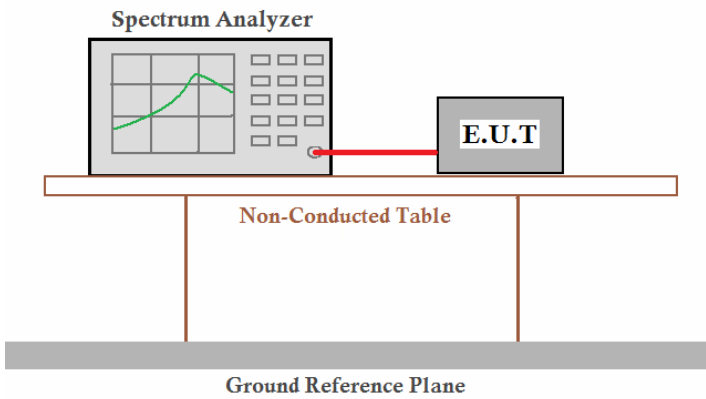
Date: 7.NOV.2011 10:31:10

Highest channel

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6.5 Power Spectral Density

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | ANSI C63.4:2009 and KDB558074 |
| Limit: | 8dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.7 for details |
| Test mode: | Transmitting mode |
| Test results: | Passed |

Measurement Data

| Test CH | Power Spectral Density (dBm) | | | | Limit(dBm) | Result |
|---------|------------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | -19.56 | -24.63 | -22.93 | -27.39 | 8.00 | Pass |
| Middle | -19.01 | -23.11 | -25.34 | -25.80 | | |
| Highest | -19.50 | -22.77 | -22.42 | -26.79 | | |

Test plot as follows:



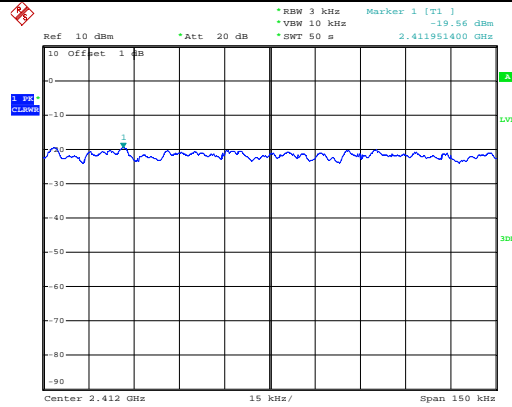
Shenzhen EBO Technology Co., Ltd.

Report No.: FCC11-RTE111101

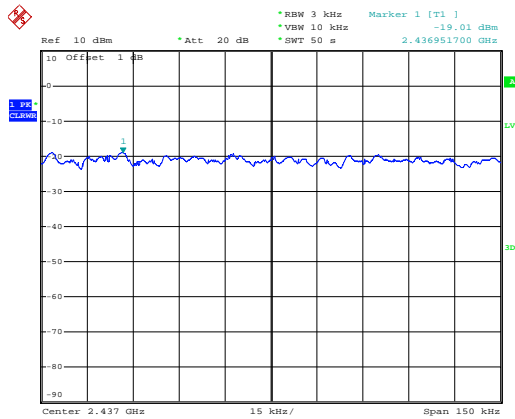
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Test mode:

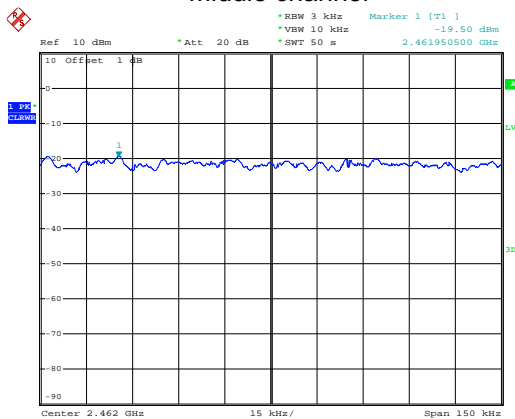
802.11b



Lowest channel



Middle channel



Highest channel

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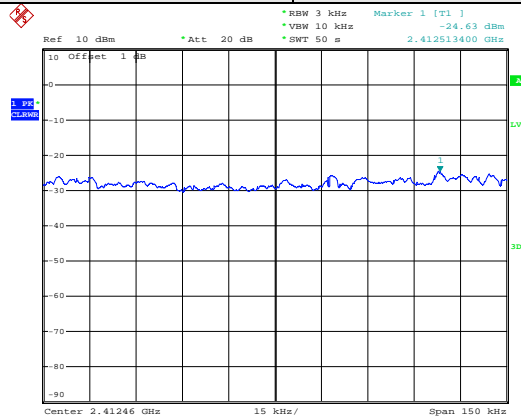
Shenzhen EBO Technology Co., Ltd.

Report No.: FCC11-RTE111101

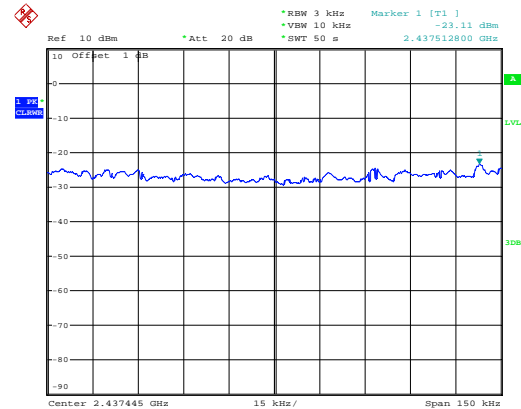
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Test mode:

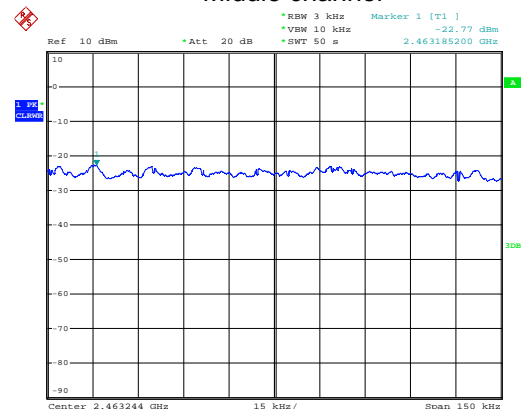
802.11g



Lowest channel



Middle channel



Highest channel

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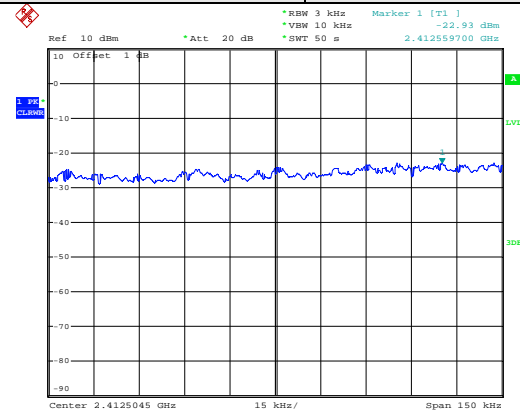
Shenzhen EBO Technology Co., Ltd.

Report No.: FCC11-RTE111101

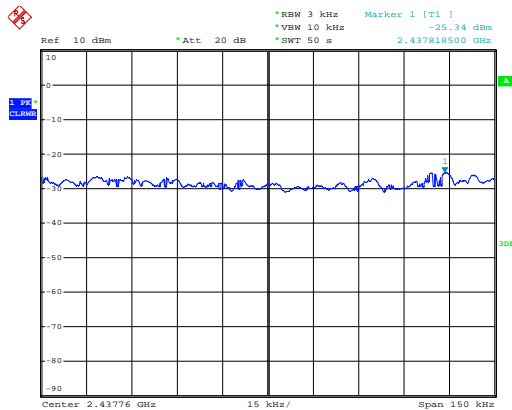
Page 26 of 62

Test mode:

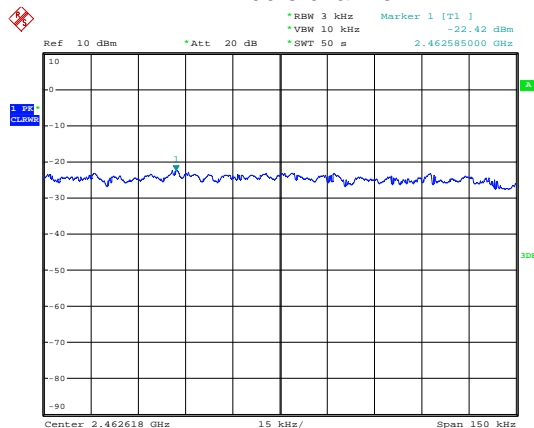
802.11n(H20)



Lowest channel



Middle channel



Highest channel

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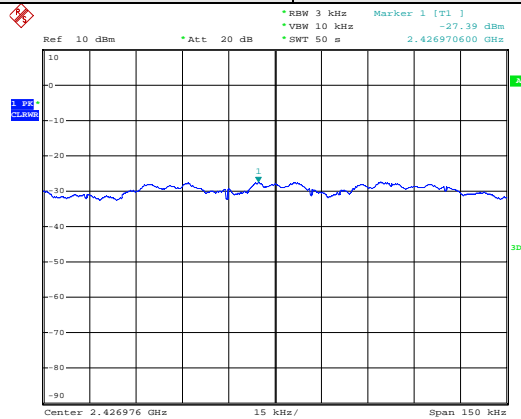
Shenzhen EBO Technology Co., Ltd.

Report No.: FCC11-RTE111101

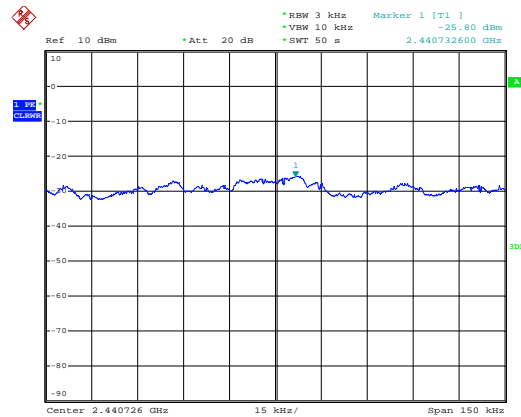
Page 27 of 62

Test mode:

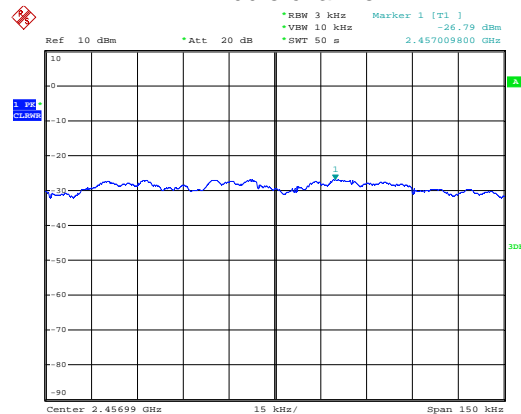
802.11n(H40)



Lowest channel



Middle channel



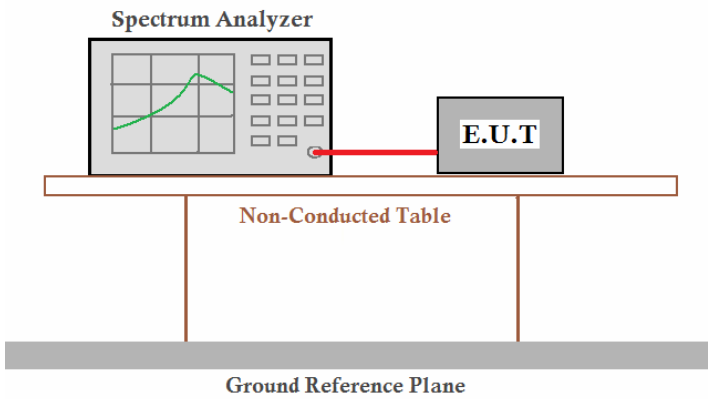
Highest channel

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6.6 Band Edge

6.6.1 Conducted Emission Method

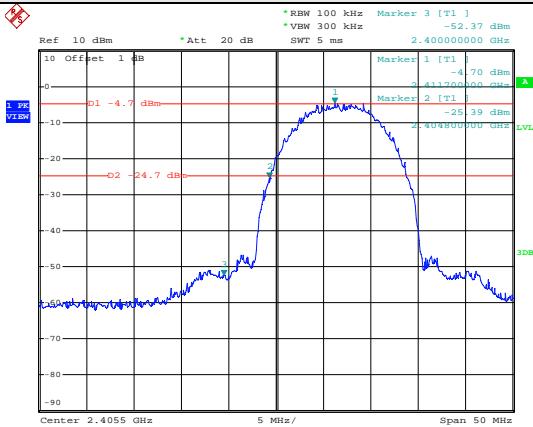
| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.4:2009 and KDB558074 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced 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. |
| Test setup: |  |
| Test Instruments: | Refer to section 5.7 for details |
| Test mode: | Transmitting mode |
| Test results: | Passed |

Test plot as follows:



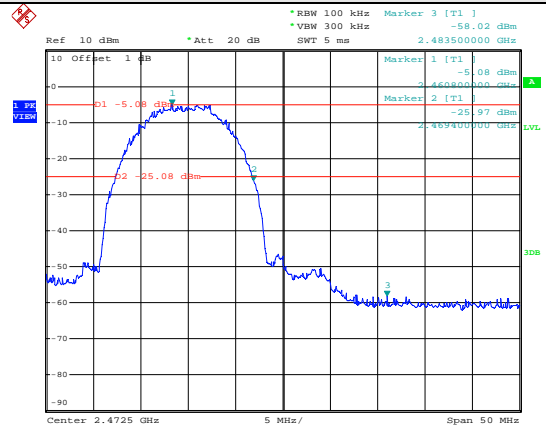
Test mode:

802.11b



Date: 7.NOV.2011 07:04:01

Lowest channel

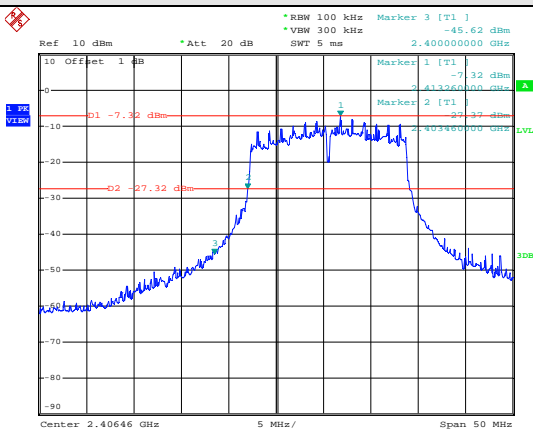


Date: 7.NOV.2011 09:27:54

Highest channel

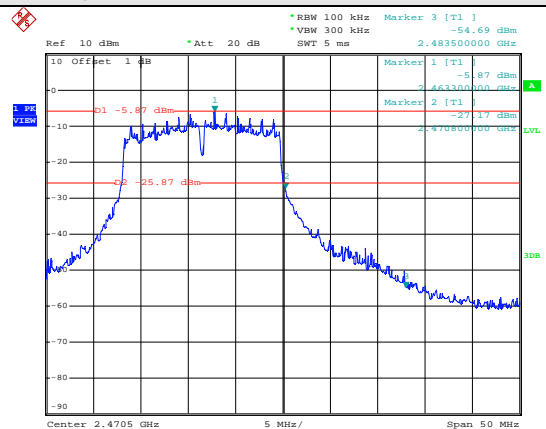
Test mode:

802.11g



Date: 7.NOV.2011 09:35:33

Lowest channel



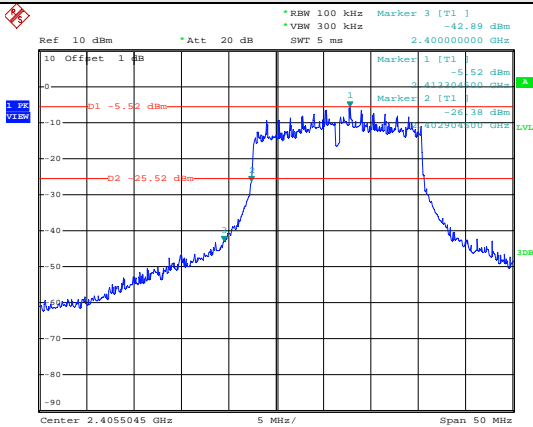
Date: 7.NOV.2011 09:47:58

Highest channel



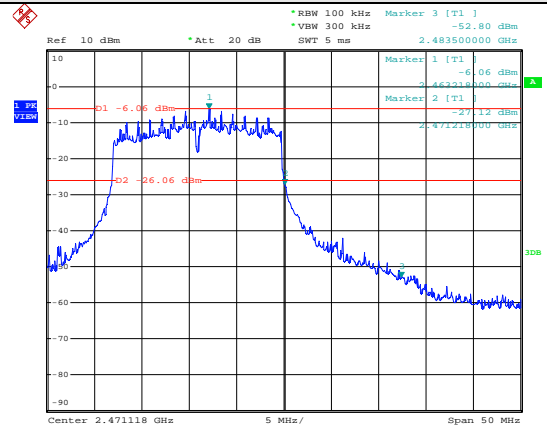
Test mode:

802.11n(H20)



Date: 7.NOV.2011 09:54:40

Lowest channel

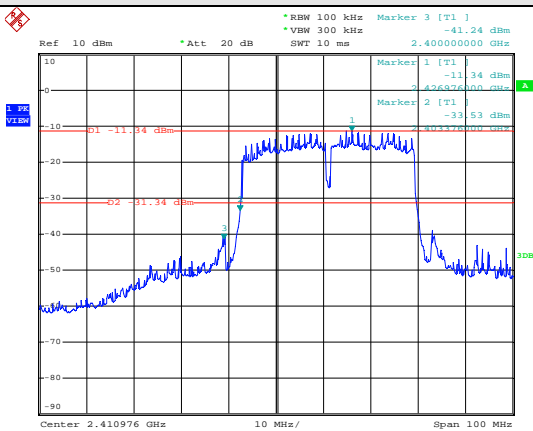


Date: 7.NOV.2011 10:13:34

Highest channel

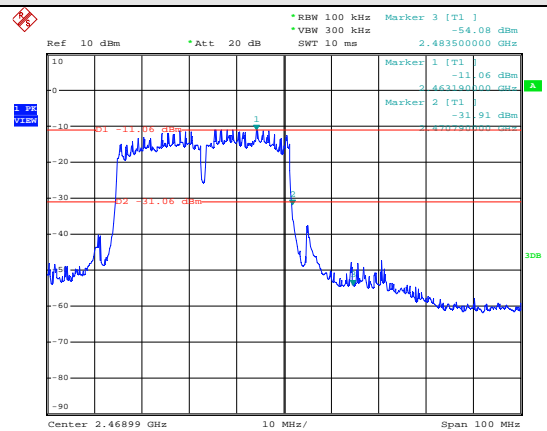
Test mode:

802.11n(H40)



Date: 7.NOV.2011 10:22:48

Lowest channel



Date: 7.NOV.2011 10:34:07

Highest channel

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6.6.2 Radiated Emission Method

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---------------|------|---------------|--|-----------|--------------------|--------|------------|--------|---------------|-------|------------|------|------------|------|------|------|---------------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | | | | | | | | | | | | | |
| Test Method: | ANSI C63.4: 2009 | | | | | | | | | | | | | | | | | | |
| Test Frequency Range: | 2.3GHz to 2.5GHz | | | | | | | | | | | | | | | | | | |
| Test site: | Measurement Distance: 3m | | | | | | | | | | | | | | | | | | |
| Receiver setup: | <table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table> | | | | | Frequency | Detector | RBW | VBW | Remark | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | Peak | 1MHz | 10Hz | Average Value |
| Frequency | Detector | RBW | VBW | Remark | | | | | | | | | | | | | | | |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | | | | | | | | | | | | | | |
| | Peak | 1MHz | 10Hz | Average Value | | | | | | | | | | | | | | | |
| Limit: | <table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr><tr><td>74.00</td><td>Peak Value</td></tr></table> | | | | | Frequency | Limit (dBuV/m @3m) | Remark | Above 1GHz | 54.00 | Average Value | 74.00 | Peak Value | | | | | | |
| Frequency | Limit (dBuV/m @3m) | Remark | | | | | | | | | | | | | | | | | |
| Above 1GHz | 54.00 | Average Value | | | | | | | | | | | | | | | | | |
| | 74.00 | Peak Value | | | | | | | | | | | | | | | | | |
| Test Procedure: | <div><div>1.</div><div>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div></div> <div><div>2.</div><div>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div></div> <div><div>3.</div><div>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div></div> <div><div>4.</div><div>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div></div> <div><div>5.</div><div>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div></div> <div><div>6.</div><div>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div></div> <div><div>7.</div><div>All restriction band have been scanned, only the worse case is reported.</div></div> <div><div>8.</div><div>the lowest, middle, highest channel these 3 channel all have been tested and only Low channel and High channel is the worse case to reported</div></div> | | | | | | | | | | | | | | | | | | |
| Test setup: | <div><div><div><div><div>EUT</div><div>Turn Table</div></div><div><div>0.8m</div><div>3m</div></div></div><div><div>Antenna Tower</div><div>Horn Antenna</div><div>Spectrum Analyzer</div><div>Amplifier</div></div></div><div><div>4m</div><div>1m</div></div></div> | | | | | | | | | | | | | | | | | | |

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| | |
|-------------------|----------------------------------|
| Test Instruments: | Refer to section 5.7 for details |
| Test mode: | Transmitting mode |
| Test results: | Passed |

Measurement data:

| Test mode: | | 802.11b | | Test channel: | | Lowest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 48.14 | 27.59 | 3.33 | 30.10 | 48.96 | 74.00 | -25.04 | Vertical | | | |
| 2400.00 | 52.27 | 27.58 | 3.37 | 30.10 | 53.12 | 74.00 | -20.88 | Vertical | | | |
| 2390.00 | 48.97 | 27.59 | 3.33 | 30.10 | 49.79 | 74.00 | -24.21 | Horizontal | | | |
| 2400.00 | 53.16 | 27.58 | 3.37 | 30.10 | 54.01 | 74.00 | -19.99 | Horizontal | | | |

| Test mode: | | 802.11b | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 31.78 | 27.59 | 3.33 | 30.10 | 32.60 | 54.00 | -21.40 | Vertical | | | |
| 2400.00 | 35.26 | 27.58 | 3.37 | 30.10 | 36.11 | 54.00 | -17.89 | Vertical | | | |
| 2390.00 | 32.61 | 27.59 | 3.33 | 30.10 | 33.43 | 54.00 | -20.57 | Horizontal | | | |
| 2400.00 | 36.15 | 27.58 | 3.37 | 30.10 | 37.00 | 54.00 | -17.00 | Horizontal | | | |

| Test mode: | | 802.11b | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 52.55 | 27.53 | 3.49 | 29.93 | 53.64 | 74.00 | -20.36 | Vertical | | | |
| 2500.00 | 48.68 | 27.55 | 3.52 | 30.70 | 49.05 | 74.00 | -24.95 | Vertical | | | |
| 2483.50 | 53.54 | 27.53 | 3.49 | 29.93 | 54.63 | 74.00 | -19.37 | Horizontal | | | |
| 2500.00 | 49.56 | 27.55 | 3.52 | 30.70 | 49.93 | 74.00 | -24.07 | Horizontal | | | |

| Test mode: | | 802.11b | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 35.54 | 27.53 | 3.49 | 29.93 | 36.63 | 54.00 | -17.37 | Vertical | | | |
| 2500.00 | 30.94 | 27.55 | 3.52 | 30.70 | 31.31 | 54.00 | -22.69 | Vertical | | | |
| 2483.50 | 36.42 | 27.53 | 3.49 | 29.93 | 37.51 | 54.00 | -16.49 | Horizontal | | | |
| 2500.00 | 31.93 | 27.55 | 3.52 | 30.70 | 32.30 | 54.00 | -21.70 | Horizontal | | | |

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| Test mode: | | 802.11g | | Test channel: | | Lowest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 46.59 | 27.59 | 3.33 | 30.10 | 47.41 | 74.00 | -26.59 | Vertical | | | |
| 2400.00 | 50.65 | 27.58 | 3.37 | 30.10 | 51.50 | 74.00 | -22.50 | Vertical | | | |
| 2390.00 | 47.61 | 27.59 | 3.33 | 30.10 | 48.43 | 74.00 | -25.57 | Horizontal | | | |
| 2400.00 | 51.76 | 27.58 | 3.37 | 30.10 | 52.61 | 74.00 | -21.39 | Horizontal | | | |

| Test mode: | | 802.11g | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 31.85 | 27.59 | 3.33 | 30.10 | 32.67 | 54.00 | -21.33 | Vertical | | | |
| 2400.00 | 35.74 | 27.58 | 3.37 | 30.10 | 36.59 | 54.00 | -17.41 | Vertical | | | |
| 2390.00 | 33.31 | 27.59 | 3.33 | 30.10 | 34.13 | 54.00 | -19.87 | Horizontal | | | |
| 2400.00 | 37.38 | 27.58 | 3.37 | 30.10 | 38.23 | 54.00 | -15.77 | Horizontal | | | |

| Test mode: | | 802.11g | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 51.34 | 27.53 | 3.49 | 29.93 | 52.43 | 74.00 | -21.57 | Vertical | | | |
| 2500.00 | 47.42 | 27.55 | 3.52 | 30.70 | 47.79 | 74.00 | -26.21 | Vertical | | | |
| 2483.50 | 52.43 | 27.53 | 3.49 | 29.93 | 53.52 | 74.00 | -20.48 | Horizontal | | | |
| 2500.00 | 48.50 | 27.55 | 3.52 | 30.70 | 48.87 | 74.00 | -25.13 | Horizontal | | | |

| Test mode: | | 802.11g | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 36.96 | 27.53 | 3.49 | 29.93 | 38.05 | 54.00 | -15.95 | Vertical | | | |
| 2500.00 | 32.67 | 27.55 | 3.52 | 30.70 | 33.04 | 54.00 | -20.96 | Vertical | | | |
| 2483.50 | 36.75 | 27.53 | 3.49 | 29.93 | 37.84 | 54.00 | -16.16 | Horizontal | | | |
| 2500.00 | 32.64 | 27.55 | 3.52 | 30.70 | 33.01 | 54.00 | -20.99 | Horizontal | | | |

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| Test mode: | | 802.11n(H20) | | Test channel: | | Lowest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 44.27 | 27.59 | 3.33 | 30.10 | 45.09 | 74.00 | -28.91 | Vertical | | | |
| 2400.00 | 46.23 | 27.58 | 3.37 | 30.10 | 47.08 | 74.00 | -26.92 | Vertical | | | |
| 2390.00 | 47.77 | 27.59 | 3.33 | 30.10 | 48.59 | 74.00 | -25.41 | Horizontal | | | |
| 2400.00 | 52.30 | 27.58 | 3.37 | 30.10 | 53.15 | 74.00 | -20.85 | Horizontal | | | |

| Test mode: | | 802.11n(H20) | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 34.06 | 27.59 | 3.33 | 30.10 | 34.88 | 54.00 | -19.12 | Vertical | | | |
| 2400.00 | 37.97 | 27.58 | 3.37 | 30.10 | 38.82 | 54.00 | -15.18 | Vertical | | | |
| 2390.00 | 33.10 | 27.59 | 3.33 | 30.10 | 33.92 | 54.00 | -20.08 | Horizontal | | | |
| 2400.00 | 33.25 | 27.58 | 3.37 | 30.10 | 34.10 | 54.00 | -19.90 | Horizontal | | | |

| Test mode: | | 802.11n(H20) | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 46.83 | 27.53 | 3.49 | 29.93 | 47.92 | 74.00 | -26.08 | Vertical | | | |
| 2500.00 | 44.05 | 27.55 | 3.52 | 30.70 | 44.42 | 74.00 | -29.58 | Vertical | | | |
| 2483.50 | 52.49 | 27.53 | 3.49 | 29.93 | 53.58 | 74.00 | -20.42 | Horizontal | | | |
| 2500.00 | 48.53 | 27.55 | 3.52 | 30.70 | 48.90 | 74.00 | -25.10 | Horizontal | | | |

| Test mode: | | 802.11n(H20) | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 38.14 | 27.53 | 3.49 | 29.93 | 39.23 | 54.00 | -14.77 | Vertical | | | |
| 2500.00 | 36.63 | 27.55 | 3.52 | 30.70 | 37.00 | 54.00 | -17.00 | Vertical | | | |
| 2483.50 | 35.77 | 27.53 | 3.49 | 29.93 | 36.86 | 54.00 | -17.14 | Horizontal | | | |
| 2500.00 | 31.54 | 27.55 | 3.52 | 30.70 | 31.91 | 54.00 | -22.09 | Horizontal | | | |

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| Test mode: | | 802.11n(H40) | | Test channel: | | Lowest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 47.74 | 27.59 | 3.33 | 30.10 | 48.56 | 74.00 | -25.44 | Vertical | | | |
| 2400.00 | 50.62 | 27.58 | 3.37 | 30.10 | 51.47 | 74.00 | -22.53 | Vertical | | | |
| 2390.00 | 48.76 | 27.59 | 3.33 | 30.10 | 49.58 | 74.00 | -24.42 | Horizontal | | | |
| 2400.00 | 51.73 | 27.58 | 3.37 | 30.10 | 52.58 | 74.00 | -21.42 | Horizontal | | | |

| Test mode: | | 802.11n(H40) | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2390.00 | 31.01 | 27.59 | 3.33 | 30.10 | 31.83 | 54.00 | -22.17 | Vertical | | | |
| 2400.00 | 36.20 | 27.58 | 3.37 | 30.10 | 37.05 | 54.00 | -16.95 | Vertical | | | |
| 2390.00 | 31.37 | 27.59 | 3.33 | 30.10 | 32.19 | 54.00 | -21.81 | Horizontal | | | |
| 2400.00 | 36.64 | 27.58 | 3.37 | 30.10 | 37.49 | 54.00 | -16.51 | Horizontal | | | |

| Test mode: | | 802.11n(H40) | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 49.75 | 27.53 | 3.49 | 29.93 | 50.84 | 74.00 | -23.16 | Vertical | | | |
| 2500.00 | 46.31 | 27.55 | 3.52 | 30.70 | 46.68 | 74.00 | -27.32 | Vertical | | | |
| 2483.50 | 50.83 | 27.53 | 3.49 | 29.93 | 51.92 | 74.00 | -22.08 | Horizontal | | | |
| 2500.00 | 47.40 | 27.55 | 3.52 | 30.70 | 47.77 | 74.00 | -26.23 | Horizontal | | | |

| Test mode: | | 802.11n(H40) | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 2483.50 | 40.29 | 27.53 | 3.49 | 29.93 | 41.38 | 54.00 | -12.62 | Vertical | | | |
| 2500.00 | 38.63 | 27.55 | 3.52 | 30.70 | 39.00 | 54.00 | -15.00 | Vertical | | | |
| 2483.50 | 39.08 | 27.53 | 3.49 | 29.93 | 40.17 | 54.00 | -13.83 | Horizontal | | | |
| 2500.00 | 37.60 | 27.55 | 3.52 | 30.70 | 37.97 | 54.00 | -16.03 | Horizontal | | | |

Remark:

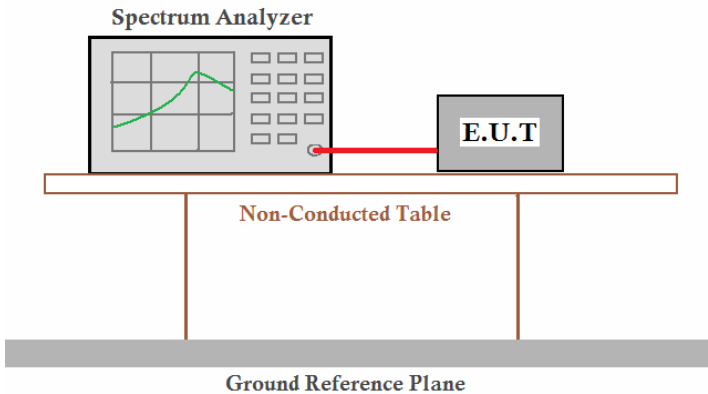
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.4:2009 and KDB558074 |
| 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. |
| Test setup: |  |
| Test Instruments: | Refer to section 5.7 for details |
| Test mode: | Transmitting mode |
| Test results: | Passed |

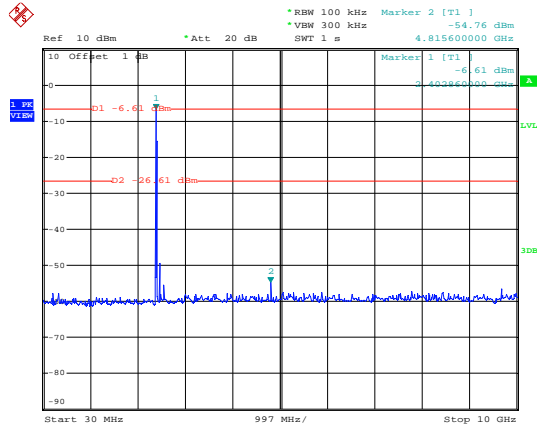
Test plot as follows:



Test mode:

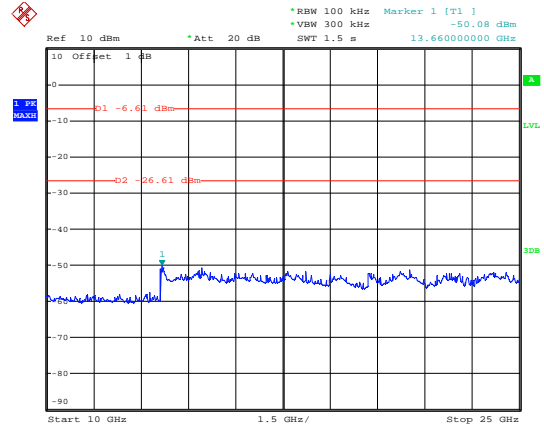
802.11b

Lowest channel



Date: 7.NOV.2011 07:06:18

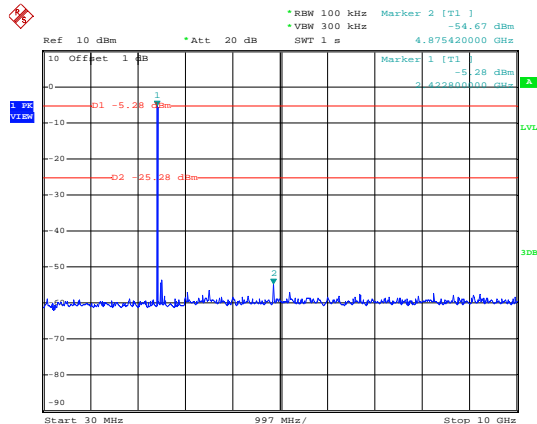
30MHz~10GHz



Date: 7.NOV.2011 07:06:35

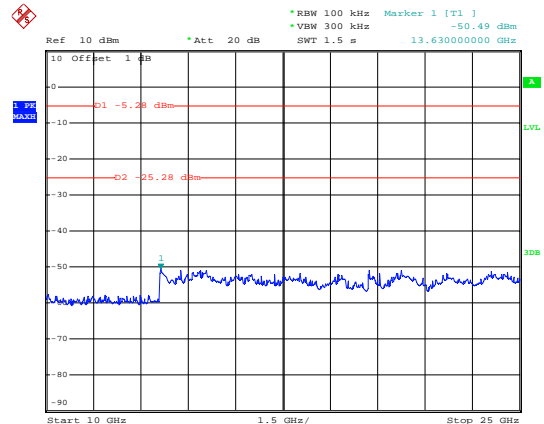
10GHz~25GHz

Middle channel



Date: 7.NOV.2011 07:12:56

30MHz~10GHz



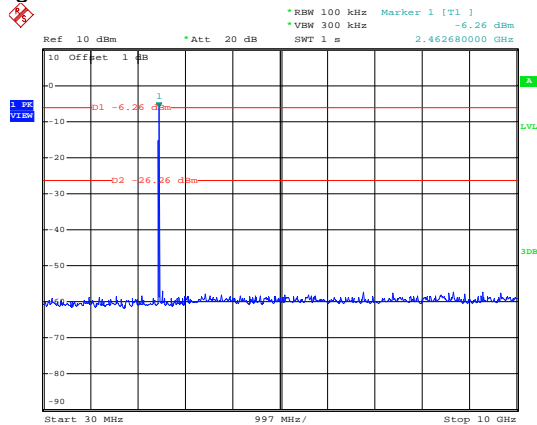
Date: 7.NOV.2011 07:13:15

10GHz~25GHz

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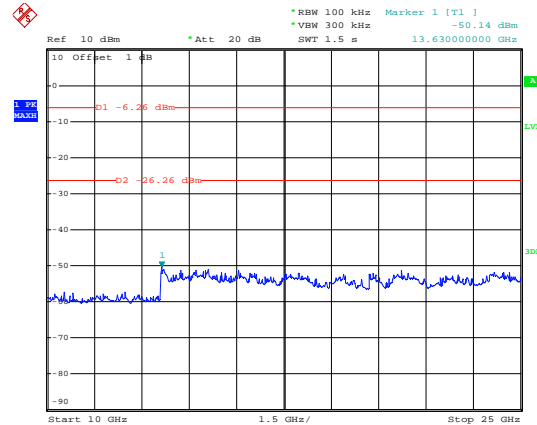


Highest channel



Date: 7.NOV.2011 09:28:39

30MHz~10GHz



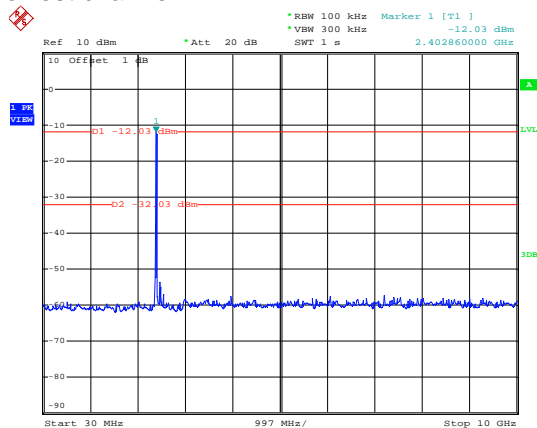
Date: 7.NOV.2011 09:28:56

10GHz~25GHz

Test mode:

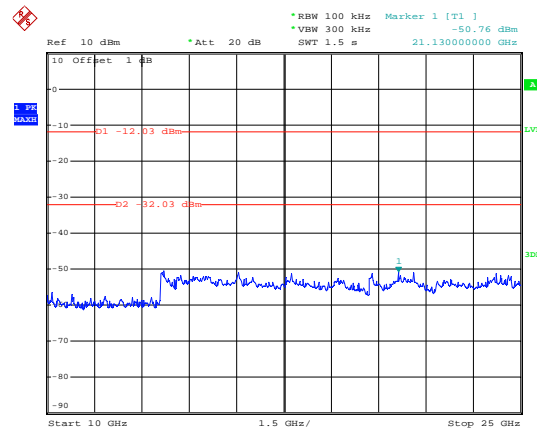
802.11g

Lowest channel



Date: 7.NOV.2011 09:39:37

30MHz~10GHz



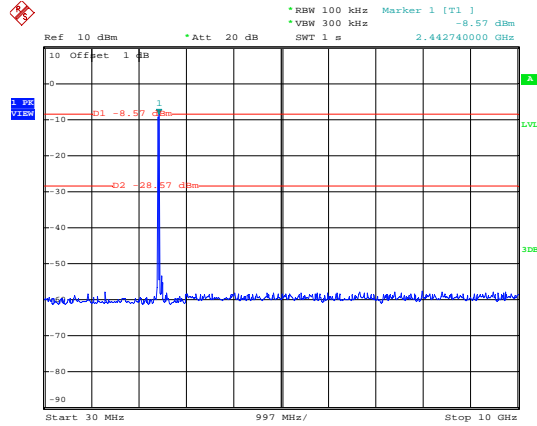
Date: 7.NOV.2011 09:39:56

10GHz~25GHz

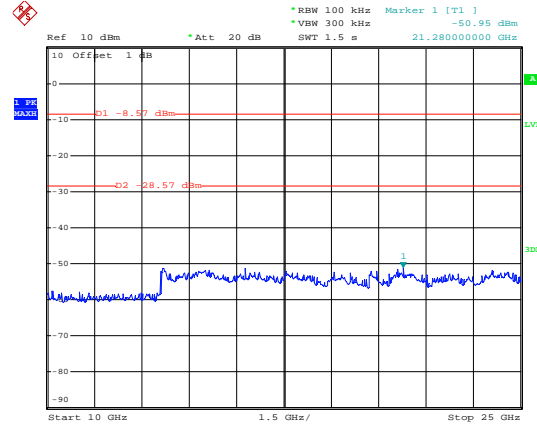
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Middle channel



Date: 7.NOV.2011 09:45:06

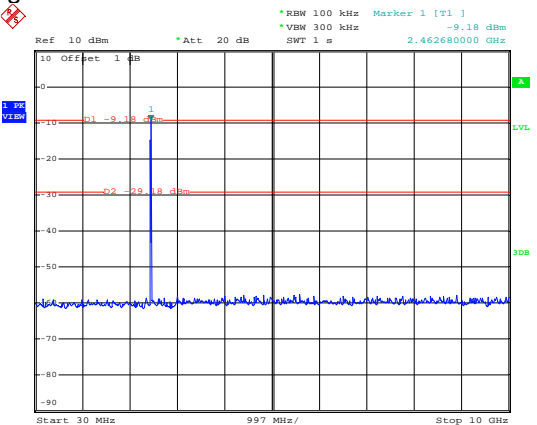


Date: 7.NOV.2011 09:45:22

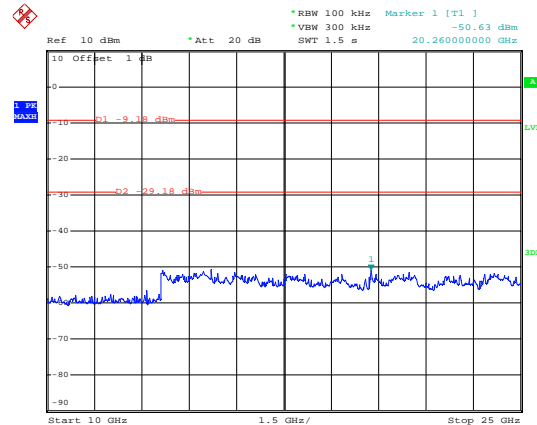
30MHz~10GHz

10GHz~25GHz

Highest channel



Date: 7.NOV.2011 09:48:41



Date: 7.NOV.2011 09:48:56

30MHz~10GHz

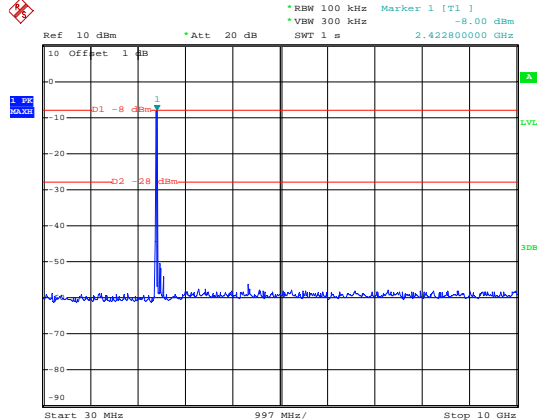
10GHz~25GHz



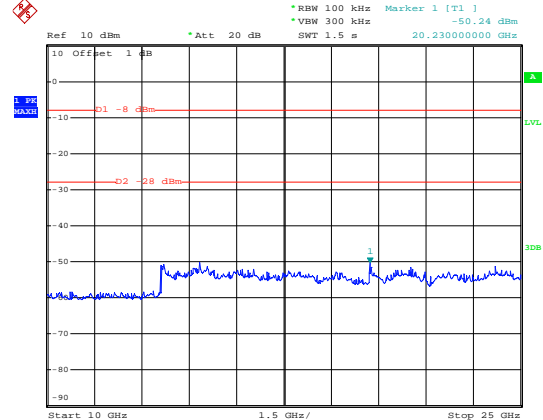
Test mode:

802.11n(H20)

Lowest channel



Date: 7.NOV.2011 09:55:18

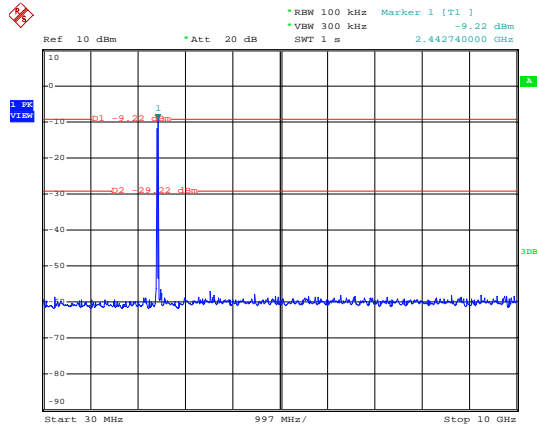


Date: 7.NOV.2011 09:55:34

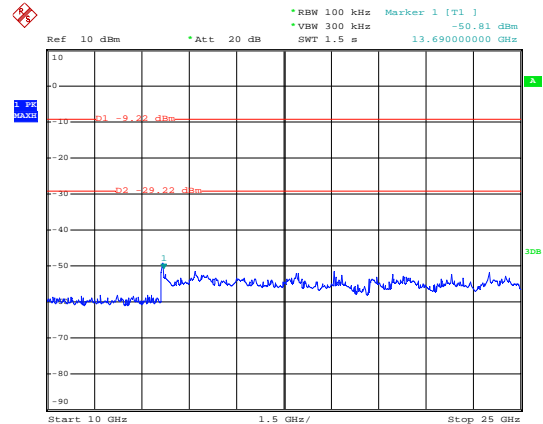
30MHz~10GHz

10GHz~25GHz

Middle channel



Date: 7.NOV.2011 10:07:29



Date: 7.NOV.2011 10:07:45

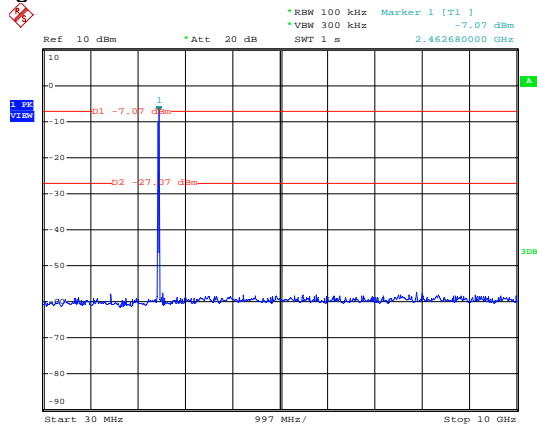
30MHz~10GHz

10GHz~25GHz

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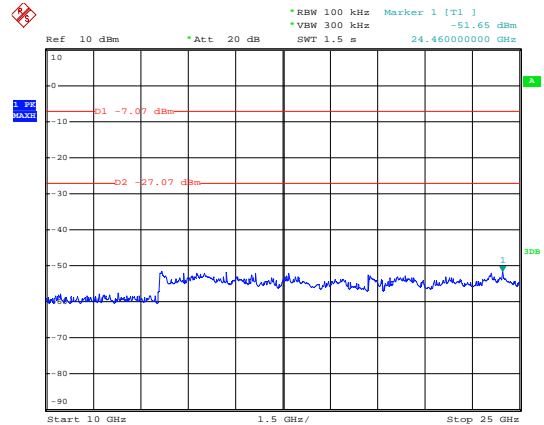


Highest channel



Date: 7.NOV.2011 10:14:39

30MHz~10GHz



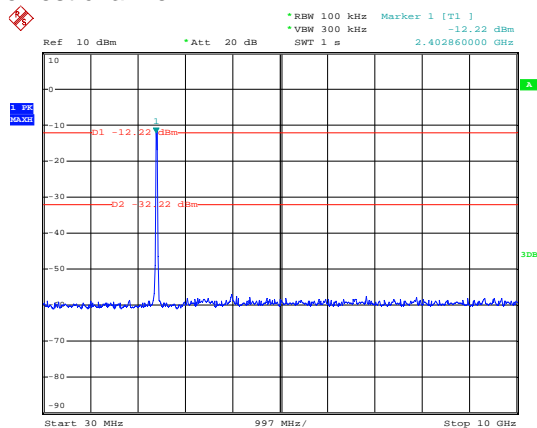
Date: 7.NOV.2011 10:15:03

10GHz~25GHz

Test mode:

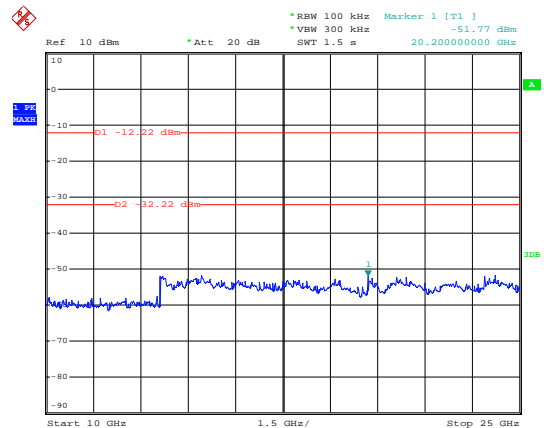
802.11n(H40)

Lowest channel



Date: 7.NOV.2011 10:24:05

30MHz~10GHz



Date: 7.NOV.2011 10:24:21

10GHz~25GHz

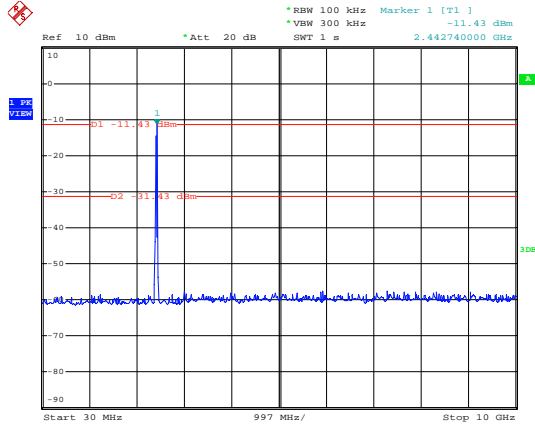
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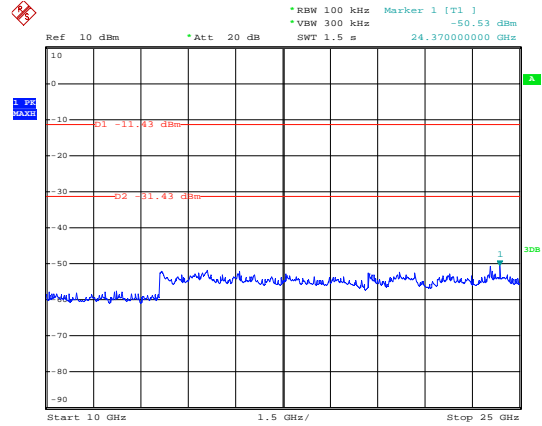
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Middle channel



Date: 7.NOV.2011 10:29:01

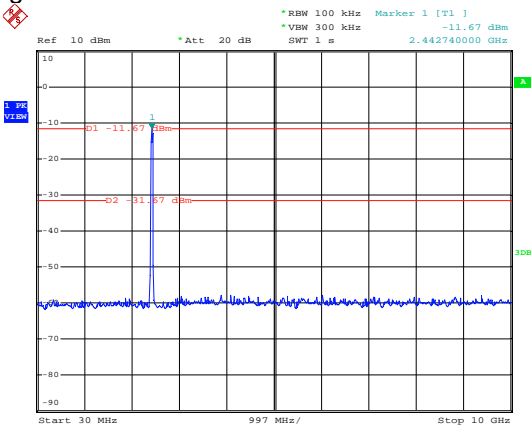
30MHz~10GHz



Date: 7.NOV.2011 10:29:19

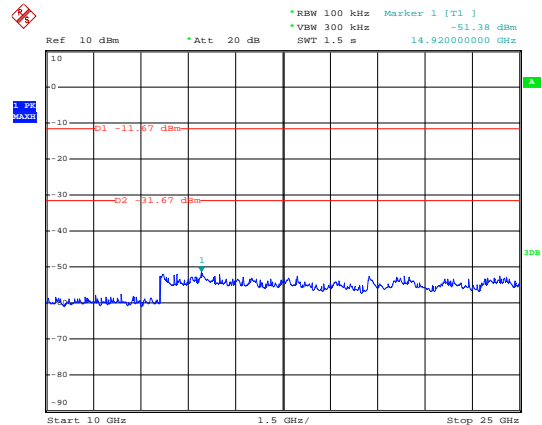
10GHz~25GHz

Highest channel



Date: 7.NOV.2011 10:34:51

30MHz~10GHz



Date: 7.NOV.2011 10:35:07

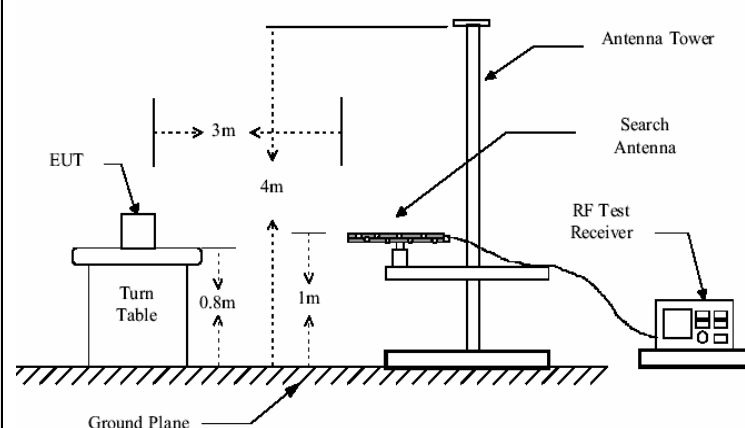
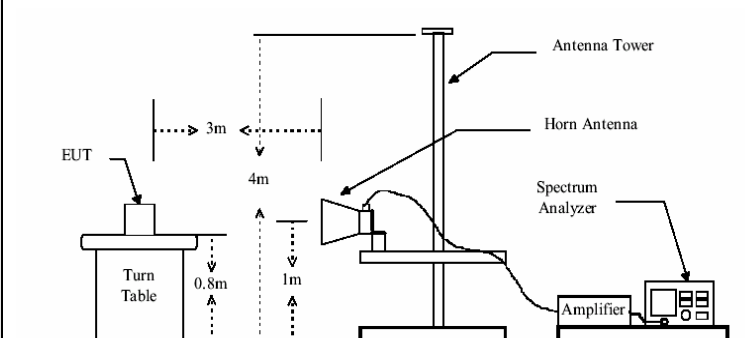
10GHz~25GHz

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6.7.2 Radiated Emission Method

| | | | | | |
|-----------------------|--|------------|--------------------|---------------|------------------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.4:2009 | | | | |
| Test Frequency Range: | 30MHz to 25GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | | | | | |
| | Frequency | Detector | RBW | VBW | Remark |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| Average | | 1MHz | 10Hz | Average Value | |
| Limit: | | | | | |
| | Frequency | | Limit (dBuV/m @3m) | | Remark |
| | 30MHz-88MHz | | 40.00 | | Quasi-peak Value |
| | 88MHz-216MHz | | 43.50 | | Quasi-peak Value |
| | 216MHz-960MHz | | 46.00 | | Quasi-peak Value |
| | 960MHz-1GHz | | 54.00 | | Quasi-peak Value |
| | Above 1GHz | 54.00 | | Average Value | |
| 74.00 | | Peak Value | | | |
| Test Procedure: | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> | | | | |

| | |
|--------------------------|--|
| <p>Test setup:</p> | <p>Below 1GHz</p>  <p>Above 1GHz</p>  |
| <p>Test Instruments:</p> | <p>Refer to section 5.7 for details</p> |
| <p>Test mode:</p> | <p>Transmitting mode</p> |
| <p>Test results:</p> | <p>Passed</p> |



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Below 1GHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 44.90 | 50.06 | 15.76 | 0.29 | 32.08 | 34.03 | 40.00 | -5.97 | Vertical |
| 121.98 | 58.63 | 10.20 | 0.54 | 31.83 | 37.54 | 43.50 | -5.96 | Vertical |
| 135.03 | 59.59 | 8.56 | 0.58 | 31.89 | 36.84 | 43.50 | -6.66 | Vertical |
| 178.76 | 57.40 | 9.63 | 0.67 | 32.15 | 35.55 | 43.50 | -7.95 | Vertical |
| 190.41 | 56.76 | 10.43 | 0.68 | 32.20 | 35.67 | 43.50 | -7.83 | Vertical |
| 210.05 | 50.84 | 10.88 | 0.75 | 32.27 | 30.20 | 43.50 | -13.30 | Vertical |
| 44.12 | 45.10 | 15.64 | 0.29 | 32.08 | 28.95 | 40.00 | -11.05 | Horizontal |
| 119.86 | 54.49 | 10.49 | 0.54 | 31.81 | 33.71 | 43.50 | -9.79 | Horizontal |
| 134.56 | 62.78 | 8.56 | 0.57 | 31.89 | 40.02 | 43.50 | -3.48 | Horizontal |
| 180.02 | 57.31 | 9.69 | 0.67 | 32.15 | 35.52 | 43.50 | -7.98 | Horizontal |
| 190.41 | 58.28 | 10.43 | 0.68 | 32.20 | 37.19 | 43.50 | -6.31 | Horizontal |
| 211.53 | 61.76 | 10.94 | 0.76 | 32.27 | 41.19 | 43.50 | -2.31 | Horizontal |

Above 1GHz

| Test mode: | | 802.11b | | Test channel: | | Lowest | | Remark: | | Peak | |
|--------------------|-------------------------|-----------------------------|--|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | | polarization | |
| 4824.00 | 40.64 | 31.54 | | 5.87 | 34.55 | 43.50 | 74.00 | -30.50 | | Vertical | |
| 7236.00 | 40.27 | 36.50 | | 7.10 | 36.11 | 47.76 | 74.00 | -26.24 | | Vertical | |
| 9648.00 | 39.40 | 38.25 | | 9.03 | 35.97 | 50.71 | 74.00 | -23.29 | | Vertical | |
| 12060.00 | 38.94 | 39.33 | | 10.15 | 35.93 | 52.49 | 74.00 | -21.51 | | Vertical | |
| 14472.00 | * | | | | | | 74.00 | | | Vertical | |
| 4824.00 | 41.60 | 31.54 | | 5.87 | 34.55 | 44.46 | 74.00 | -29.54 | | Horizontal | |
| 7236.00 | 38.55 | 36.49 | | 7.10 | 36.12 | 46.02 | 74.00 | -27.98 | | Horizontal | |
| 9648.00 | 38.49 | 38.12 | | 9.01 | 35.88 | 49.74 | 74.00 | -24.26 | | Horizontal | |
| 12060.00 | 38.06 | 39.33 | | 10.15 | 35.93 | 51.61 | 74.00 | -22.39 | | Horizontal | |
| 14472.00 | * | | | | | | 74.00 | | | Horizontal | |

| Test mode: | | 802.11b | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4824.00 | 33.66 | 31.54 | 5.87 | 34.55 | 36.52 | 54.00 | -17.48 | Vertical | | | |
| 7236.00 | 33.32 | 36.50 | 7.10 | 36.11 | 40.81 | 54.00 | -13.19 | Vertical | | | |
| 9648.00 | 32.52 | 38.25 | 9.03 | 35.97 | 43.83 | 54.00 | -10.17 | Vertical | | | |
| 12060.00 | 32.48 | 39.33 | 10.15 | 35.93 | 46.03 | 54.00 | -7.97 | Vertical | | | |
| 14472.00 | * | | | | | 54.00 | | Vertical | | | |
| 4824.00 | 34.84 | 31.54 | 5.87 | 34.55 | 37.70 | 54.00 | -16.30 | Horizontal | | | |
| 7236.00 | 31.53 | 36.49 | 7.10 | 36.12 | 39.00 | 54.00 | -15.00 | Horizontal | | | |
| 9648.00 | 32.47 | 38.12 | 9.01 | 35.88 | 43.72 | 54.00 | -10.28 | Horizontal | | | |
| 12060.00 | 31.52 | 39.33 | 10.15 | 35.93 | 45.07 | 54.00 | -8.93 | Horizontal | | | |
| 14472.00 | * | | | | | 54.00 | | Horizontal | | | |

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| Test mode: | | 802.11b | | Test channel: | | Middle | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4874 | 37.59 | 31.57 | 5.91 | 34.65 | 40.42 | 74.00 | -33.58 | Vertical | | | |
| 7311 | 39.11 | 36.48 | 7.14 | 36.14 | 46.59 | 74.00 | -27.41 | Vertical | | | |
| 9748 | 38.78 | 38.64 | 9.08 | 36.35 | 50.15 | 74.00 | -23.85 | Vertical | | | |
| 12185 | 38.69 | 39.35 | 10.15 | 35.98 | 52.21 | 74.00 | -21.79 | Vertical | | | |
| 14622 | * | | | | | 74.00 | | Vertical | | | |
| 4874 | 40.28 | 31.57 | 5.91 | 34.65 | 43.11 | 74.00 | -30.89 | Horizontal | | | |
| 7311 | 37.70 | 36.47 | 7.14 | 36.14 | 45.17 | 74.00 | -28.83 | Horizontal | | | |
| 9748 | 38.21 | 38.45 | 9.06 | 36.24 | 49.48 | 74.00 | -24.52 | Horizontal | | | |
| 12185 | 38.66 | 39.32 | 10.21 | 36.25 | 51.94 | 74.00 | -22.06 | Horizontal | | | |
| 14622 | * | | | | | 74.00 | | Horizontal | | | |

| Test mode: | | 802.11b | | Test channel: | | Middle | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4874 | 31.02 | 31.57 | 5.91 | 34.65 | 33.85 | 54.00 | -20.15 | Vertical | | | |
| 7311 | 31.89 | 36.48 | 7.14 | 36.14 | 39.37 | 54.00 | -14.63 | Vertical | | | |
| 9748 | 33.04 | 38.64 | 9.08 | 36.35 | 44.41 | 54.00 | -9.59 | Vertical | | | |
| 12185 | 32.93 | 39.35 | 10.15 | 35.98 | 46.45 | 54.00 | -7.55 | Vertical | | | |
| 14622 | * | | | | | 54.00 | | Vertical | | | |
| 4874 | 33.60 | 31.57 | 5.91 | 34.65 | 36.43 | 54.00 | -17.57 | Horizontal | | | |
| 7311 | 30.75 | 36.47 | 7.14 | 36.14 | 38.22 | 54.00 | -15.78 | Horizontal | | | |
| 9748 | 31.52 | 38.45 | 9.06 | 36.24 | 42.79 | 54.00 | -11.21 | Horizontal | | | |
| 12185 | 31.49 | 39.32 | 10.21 | 36.25 | 44.77 | 54.00 | -9.23 | Horizontal | | | |
| 14622 | * | | | | | 54.00 | | Horizontal | | | |

| Test mode: | | 802.11b | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4924 | 38.37 | 31.64 | 5.95 | 34.79 | 41.17 | 74.00 | -32.83 | Vertical | | | |
| 7386 | 38.41 | 36.49 | 7.16 | 36.16 | 45.90 | 74.00 | -28.10 | Vertical | | | |
| 9848 | 39.28 | 38.69 | 9.11 | 36.53 | 50.55 | 74.00 | -23.45 | Vertical | | | |
| 12310 | 39.41 | 39.00 | 10.32 | 36.61 | 52.12 | 74.00 | -21.88 | Vertical | | | |
| 14772 | * | | | | | 74.00 | | Vertical | | | |
| 4924 | 39.71 | 31.74 | 5.97 | 34.86 | 42.56 | 74.00 | -31.44 | Horizontal | | | |
| 7386 | 38.12 | 36.50 | 7.10 | 36.11 | 45.61 | 74.00 | -28.39 | Horizontal | | | |
| 9848 | 38.60 | 38.67 | 9.08 | 36.47 | 49.88 | 74.00 | -24.12 | Horizontal | | | |
| 12310 | 39.69 | 39.00 | 10.32 | 36.61 | 52.40 | 74.00 | -21.60 | Horizontal | | | |
| 14772 | * | | | | | 74.00 | | Horizontal | | | |

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| Test mode: | | 802.11b | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4944 | 32.79 | 31.64 | 5.95 | 34.79 | 35.59 | 54.00 | -18.41 | Vertical | | | |
| 7416 | 31.90 | 36.49 | 7.16 | 36.16 | 39.39 | 54.00 | -14.61 | Vertical | | | |
| 9888 | 34.03 | 38.69 | 9.11 | 36.53 | 45.30 | 54.00 | -8.70 | Vertical | | | |
| 12360 | 32.64 | 39.00 | 10.32 | 36.61 | 45.35 | 54.00 | -8.65 | Vertical | | | |
| 14832 | * | | | | | 54.00 | | Vertical | | | |
| 4944 | 32.71 | 31.74 | 5.97 | 34.86 | 35.56 | 54.00 | -18.44 | Horizontal | | | |
| 7416 | 32.51 | 36.50 | 7.10 | 36.11 | 40.00 | 54.00 | -14.00 | Horizontal | | | |
| 9888 | 31.57 | 38.67 | 9.08 | 36.47 | 42.85 | 54.00 | -11.15 | Horizontal | | | |
| 12360 | 32.55 | 39.00 | 10.32 | 36.61 | 45.26 | 54.00 | -8.74 | Horizontal | | | |
| 14832 | * | | | | | 54.00 | | Horizontal | | | |

| Test mode: | | 802.11g | | Test channel: | | Lowest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4824.00 | 37.82 | 31.55 | 5.89 | 34.58 | 40.68 | 74.00 | -33.32 | Vertical | | | |
| 7236.00 | 37.99 | 36.50 | 7.10 | 36.11 | 45.48 | 74.00 | -28.52 | Vertical | | | |
| 9648.00 | 38.34 | 38.12 | 9.01 | 35.90 | 49.57 | 74.00 | -24.43 | Vertical | | | |
| 12060.00 | 38.10 | 39.33 | 10.15 | 35.93 | 51.65 | 74.00 | -22.35 | Vertical | | | |
| 14472.00 | * | | | | | 74.00 | | Vertical | | | |
| 4824.00 | 37.24 | 31.55 | 5.89 | 34.58 | 40.10 | 74.00 | -33.90 | Horizontal | | | |
| 7236.00 | 38.13 | 36.47 | 7.10 | 36.11 | 45.59 | 74.00 | -28.41 | Horizontal | | | |
| 9648.00 | 37.48 | 38.25 | 9.03 | 35.97 | 48.79 | 74.00 | -25.21 | Horizontal | | | |
| 12060.00 | 38.05 | 39.35 | 10.15 | 35.98 | 51.57 | 74.00 | -22.43 | Horizontal | | | |
| 14472.00 | * | | | | | 74.00 | | Horizontal | | | |

| Test mode: | | 802.11g | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4824.00 | 30.62 | 31.55 | 5.89 | 34.58 | 33.48 | 54.00 | -20.52 | Vertical | | | |
| 7236.00 | 30.82 | 36.50 | 7.10 | 36.11 | 38.31 | 54.00 | -15.69 | Vertical | | | |
| 9648.00 | 31.83 | 38.12 | 9.01 | 35.90 | 43.06 | 54.00 | -10.94 | Vertical | | | |
| 12060.00 | 30.79 | 39.33 | 10.15 | 35.93 | 44.34 | 54.00 | -9.66 | Vertical | | | |
| 14472.00 | * | | | | | 54.00 | | Vertical | | | |
| 4824.00 | 31.94 | 31.55 | 5.89 | 34.58 | 34.80 | 54.00 | -19.20 | Horizontal | | | |
| 7236.00 | 31.91 | 36.47 | 7.10 | 36.11 | 39.37 | 54.00 | -14.63 | Horizontal | | | |
| 9648.00 | 30.84 | 38.25 | 9.03 | 35.97 | 42.15 | 54.00 | -11.85 | Horizontal | | | |
| 12060.00 | 30.52 | 39.35 | 10.15 | 35.98 | 44.04 | 54.00 | -9.96 | Horizontal | | | |
| 14472.00 | * | | | | | 54.00 | | Horizontal | | | |

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| Test mode: | | 802.11g | | Test channel: | | Middle | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4874 | 37.01 | 31.56 | 5.89 | 34.58 | 39.88 | 74.00 | -34.12 | Vertical | | | |
| 7311 | 37.52 | 36.47 | 7.14 | 36.14 | 44.99 | 74.00 | -29.01 | Vertical | | | |
| 9748 | 37.61 | 38.45 | 9.06 | 36.24 | 48.88 | 74.00 | -25.12 | Vertical | | | |
| 12185 | 38.13 | 39.32 | 10.21 | 36.25 | 51.41 | 74.00 | -22.59 | Vertical | | | |
| 14622 | * | | | | | 74.00 | | Vertical | | | |
| 4874 | 36.84 | 31.56 | 5.89 | 34.58 | 39.71 | 74.00 | -34.29 | Horizontal | | | |
| 7311 | 37.66 | 36.48 | 7.14 | 36.14 | 45.14 | 74.00 | -28.86 | Horizontal | | | |
| 9748 | 38.42 | 38.45 | 9.06 | 36.18 | 49.75 | 74.00 | -24.25 | Horizontal | | | |
| 12185 | 37.38 | 39.32 | 10.21 | 36.25 | 50.66 | 74.00 | -23.34 | Horizontal | | | |
| 14622 | * | | | | | 74.00 | | Horizontal | | | |

| Test mode: | | 802.11g | | Test channel: | | Middle | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4874 | 30.67 | 31.56 | 5.89 | 34.58 | 33.54 | 54.00 | -20.46 | Vertical | | | |
| 7311 | 31.23 | 36.47 | 7.14 | 36.14 | 38.70 | 54.00 | -15.30 | Vertical | | | |
| 9748 | 31.94 | 38.45 | 9.06 | 36.24 | 43.21 | 54.00 | -10.79 | Vertical | | | |
| 12185 | 30.97 | 39.32 | 10.21 | 36.25 | 44.25 | 54.00 | -9.75 | Vertical | | | |
| 14622 | * | | | | | 54.00 | | Vertical | | | |
| 4874 | 30.01 | 31.56 | 5.89 | 34.58 | 32.88 | 54.00 | -21.12 | Horizontal | | | |
| 7311 | 31.34 | 36.48 | 7.14 | 36.14 | 38.82 | 54.00 | -15.18 | Horizontal | | | |
| 9748 | 31.95 | 38.45 | 9.06 | 36.18 | 43.28 | 54.00 | -10.72 | Horizontal | | | |
| 12185 | 30.89 | 39.32 | 10.21 | 36.25 | 44.17 | 54.00 | -9.83 | Horizontal | | | |
| 14622 | * | | | | | 54.00 | | Horizontal | | | |

| Test mode: | | 802.11g | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4924 | 36.84 | 31.61 | 5.93 | 34.76 | 39.62 | 74.00 | -34.38 | Vertical | | | |
| 7386 | 37.39 | 36.52 | 7.16 | 36.16 | 44.91 | 74.00 | -29.09 | Vertical | | | |
| 9848 | 37.55 | 38.67 | 9.08 | 36.47 | 48.83 | 74.00 | -25.17 | Vertical | | | |
| 12310 | 38.05 | 38.95 | 10.32 | 36.65 | 50.67 | 74.00 | -23.33 | Vertical | | | |
| 14772 | * | | | | | 74.00 | | Vertical | | | |
| 4924 | 37.05 | 31.64 | 5.95 | 34.79 | 39.85 | 74.00 | -34.15 | Horizontal | | | |
| 7386 | 37.69 | 36.54 | 7.16 | 36.16 | 45.23 | 74.00 | -28.77 | Horizontal | | | |
| 9848 | 37.29 | 38.69 | 9.11 | 36.53 | 48.56 | 74.00 | -25.44 | Horizontal | | | |
| 12310 | 38.37 | 38.73 | 10.37 | 36.83 | 50.64 | 74.00 | -23.36 | Horizontal | | | |
| 14772 | * | | | | | 74.00 | | Horizontal | | | |

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| Test mode: | | 802.11g | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4924 | 29.96 | 31.61 | 5.93 | 34.76 | 32.74 | 54.00 | -21.26 | Vertical | | | |
| 7386 | 30.79 | 36.52 | 7.16 | 36.16 | 38.31 | 54.00 | -15.69 | Vertical | | | |
| 9848 | 30.23 | 38.67 | 9.08 | 36.47 | 41.51 | 54.00 | -12.49 | Vertical | | | |
| 12310 | 31.47 | 38.95 | 10.32 | 36.65 | 44.09 | 54.00 | -9.91 | Vertical | | | |
| 14772 | * | | | | | 54.00 | | Vertical | | | |
| 4924 | 31.02 | 31.64 | 5.95 | 34.79 | 33.82 | 54.00 | -20.18 | Horizontal | | | |
| 7386 | 31.35 | 36.54 | 7.16 | 36.16 | 38.89 | 54.00 | -15.11 | Horizontal | | | |
| 9848 | 30.01 | 38.69 | 9.11 | 36.53 | 41.28 | 54.00 | -12.72 | Horizontal | | | |
| 12310 | 30.96 | 38.73 | 10.37 | 36.83 | 43.23 | 54.00 | -10.77 | Horizontal | | | |
| 14772 | * | | | | | 54.00 | | Horizontal | | | |

| Test mode: | | 802.11n(H20) | | Test channel: | | Lowest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|--|-----------------|--------------------|----------------|---------------------|-----------------|--------------|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | |
| 4824.00 | 38.03 | 31.85 | | 6.00 | 34.92 | 40.96 | 74.00 | -33.04 | Vertical | | |
| 7236.00 | 38.87 | 36.50 | | 7.10 | 36.11 | 46.36 | 74.00 | -27.64 | Vertical | | |
| 9648.00 | 38.07 | 38.12 | | 9.01 | 35.88 | 49.32 | 74.00 | -24.68 | Vertical | | |
| 12060.00 | 36.75 | 39.35 | | 10.15 | 35.98 | 50.27 | 74.00 | -23.73 | Vertical | | |
| 14472.00 | * | | | | | | 74.00 | | Vertical | | |
| 4824.00 | 37.46 | 31.55 | | 5.89 | 34.58 | 40.32 | 74.00 | -33.68 | Horizontal | | |
| 7236.00 | 38.68 | 36.50 | | 7.10 | 36.11 | 46.17 | 74.00 | -27.83 | Horizontal | | |
| 9648.00 | 38.73 | 38.12 | | 9.01 | 35.90 | 49.96 | 74.00 | -24.04 | Horizontal | | |
| 12060.00 | 37.97 | 39.35 | | 10.15 | 35.98 | 51.49 | 74.00 | -22.51 | Horizontal | | |
| 14472.00 | * | | | | | | 74.00 | | Horizontal | | |

| Test mode: | | 802.11n(H20) | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4824.00 | 31.91 | 31.85 | 6.00 | 34.92 | 34.84 | 54.00 | -19.16 | Vertical | | | |
| 7236.00 | 32.28 | 36.50 | 7.10 | 36.11 | 39.77 | 54.00 | -14.23 | Vertical | | | |
| 9648.00 | 31.06 | 38.12 | 9.01 | 35.88 | 42.31 | 54.00 | -11.69 | Vertical | | | |
| 12060.00 | 28.84 | 39.35 | 10.15 | 35.98 | 42.36 | 54.00 | -11.64 | Vertical | | | |
| 14472.00 | * | | | | | 54.00 | | Vertical | | | |
| 4824.00 | 30.32 | 31.55 | 5.89 | 34.58 | 33.18 | 54.00 | -20.82 | Horizontal | | | |
| 7236.00 | 32.35 | 36.50 | 7.10 | 36.11 | 39.84 | 54.00 | -14.16 | Horizontal | | | |
| 9648.00 | 32.69 | 38.12 | 9.01 | 35.90 | 43.92 | 54.00 | -10.08 | Horizontal | | | |
| 12060.00 | 31.31 | 39.35 | 10.15 | 35.98 | 44.83 | 54.00 | -9.17 | Horizontal | | | |
| 14472.00 | * | | | | | 54.00 | | Horizontal | | | |

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| Test mode: | | 802.11n(H20) | | Test channel: | | Middle | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|--|-----------------|--------------------|----------------|---------------------|-----------------|--------------|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | |
| 4874 | 36.83 | 31.57 | | 5.91 | 34.65 | 39.66 | 74.00 | -34.34 | Vertical | | |
| 7311 | 37.09 | 36.47 | | 7.14 | 36.14 | 44.56 | 74.00 | -29.44 | Vertical | | |
| 9748 | 37.31 | 38.30 | | 9.03 | 36.00 | 48.64 | 74.00 | -25.36 | Vertical | | |
| 12185 | 38.05 | 39.32 | | 10.21 | 36.25 | 51.33 | 74.00 | -22.67 | Vertical | | |
| 14622 | * | | | | | | 74.00 | | Vertical | | |
| 4874 | 41.22 | 31.79 | | 5.97 | 34.90 | 44.08 | 74.00 | -29.92 | Horizontal | | |
| 7311 | 37.51 | 36.48 | | 7.14 | 36.14 | 44.99 | 74.00 | -29.01 | Horizontal | | |
| 9748 | 38.58 | 38.45 | | 9.06 | 36.24 | 49.85 | 74.00 | -24.15 | Horizontal | | |
| 12185 | 37.78 | 39.30 | | 10.26 | 36.29 | 51.05 | 74.00 | -22.95 | Horizontal | | |
| 14622 | * | | | | | | 74.00 | | Horizontal | | |

| Test mode: | | 802.11n(H20) | | Test channel: | | Middle | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4874 | 30.47 | 31.57 | 5.91 | 34.65 | 33.30 | 54.00 | -20.70 | Vertical | | | |
| 7311 | 29.98 | 36.47 | 7.14 | 36.14 | 37.45 | 54.00 | -16.55 | Vertical | | | |
| 9748 | 31.02 | 38.30 | 9.03 | 36.00 | 42.35 | 54.00 | -11.65 | Vertical | | | |
| 12185 | 30.89 | 39.32 | 10.21 | 36.25 | 44.17 | 54.00 | -9.83 | Vertical | | | |
| 14622 | * | | | | | | | Vertical | | | |
| 4874 | 34.22 | 31.79 | 5.97 | 34.90 | 37.08 | 54.00 | -16.92 | Horizontal | | | |
| 7311 | 30.88 | 36.48 | 7.14 | 36.14 | 38.36 | 54.00 | -15.64 | Horizontal | | | |
| 9748 | 31.20 | 38.45 | 9.06 | 36.24 | 42.47 | 54.00 | -11.53 | Horizontal | | | |
| 12185 | 30.91 | 39.30 | 10.26 | 36.29 | 44.18 | 54.00 | -9.82 | Horizontal | | | |
| 14622 | * | | | | | | | Horizontal | | | |

| Test mode: | | 802.11n(H20) | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4924 | 36.84 | 31.61 | 5.93 | 34.76 | 39.62 | 74.00 | -34.38 | Vertical | | | |
| 7386 | 37.39 | 36.52 | 7.16 | 36.16 | 44.91 | 74.00 | -29.09 | Vertical | | | |
| 9848 | 37.55 | 38.67 | 9.08 | 36.47 | 48.83 | 74.00 | -25.17 | Vertical | | | |
| 12310 | 38.05 | 38.95 | 10.32 | 36.65 | 50.67 | 74.00 | -23.33 | Vertical | | | |
| 14772 | * | | | | | | | Vertical | | | |
| 4924 | 37.05 | 31.64 | 5.95 | 34.79 | 39.85 | 74.00 | -34.15 | Horizontal | | | |
| 7386 | 37.69 | 36.54 | 7.16 | 36.16 | 45.23 | 74.00 | -28.77 | Horizontal | | | |
| 9848 | 37.29 | 38.69 | 9.11 | 36.53 | 48.56 | 74.00 | -25.44 | Horizontal | | | |
| 12310 | 38.37 | 38.73 | 10.37 | 36.83 | 50.64 | 74.00 | -23.36 | Horizontal | | | |
| 14772 | * | | | | | | | Horizontal | | | |

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| Test mode: | | 802.11n(H20) | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|--|-----------------|--------------------|----------------|---------------------|-----------------|--------------|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | |
| 4924 | 29.96 | 31.61 | | 5.93 | 34.76 | 32.74 | 54.00 | -21.26 | Vertical | | |
| 7386 | 30.79 | 36.52 | | 7.16 | 36.16 | 38.31 | 54.00 | -15.69 | Vertical | | |
| 9848 | 30.23 | 38.67 | | 9.08 | 36.47 | 41.51 | 54.00 | -12.49 | Vertical | | |
| 12310 | 31.47 | 38.95 | | 10.32 | 36.65 | 44.09 | 54.00 | -9.91 | Vertical | | |
| 14772 | * | | | | | | | | Vertical | | |
| 4924 | 31.02 | 31.64 | | 5.95 | 34.79 | 33.82 | 54.00 | -20.18 | Horizontal | | |
| 7386 | 31.35 | 36.54 | | 7.16 | 36.16 | 38.89 | 54.00 | -15.11 | Horizontal | | |
| 9848 | 30.01 | 38.69 | | 9.11 | 36.53 | 41.28 | 54.00 | -12.72 | Horizontal | | |
| 12310 | 30.96 | 38.73 | | 10.37 | 36.83 | 43.23 | 54.00 | -10.77 | Horizontal | | |
| 14772 | * | | | | | | | | Horizontal | | |

| Test mode: | | 802.11n(H40) | | Test channel: | | Lowest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4844.00 | 36.93 | 31.56 | 5.89 | 34.58 | 39.80 | 74.00 | -34.20 | Vertical | | | |
| 7266.00 | 37.31 | 36.49 | 7.10 | 36.12 | 44.78 | 74.00 | -29.22 | Vertical | | | |
| 9688.00 | 37.21 | 38.25 | 9.03 | 35.97 | 48.52 | 74.00 | -25.48 | Vertical | | | |
| 12110.00 | 37.42 | 39.34 | 10.21 | 36.11 | 50.86 | 74.00 | -23.14 | Vertical | | | |
| 14532.00 | * | | | | | 74.00 | | Vertical | | | |
| 4844.00 | 37.47 | 31.56 | 5.89 | 34.58 | 40.34 | 74.00 | -33.66 | Horizontal | | | |
| 7266.00 | 37.69 | 36.49 | 7.12 | 36.12 | 45.18 | 74.00 | -28.82 | Horizontal | | | |
| 9688.00 | 37.56 | 38.25 | 9.03 | 35.97 | 48.87 | 74.00 | -25.13 | Horizontal | | | |
| 12110.00 | 38.31 | 39.34 | 10.21 | 36.11 | 51.75 | 74.00 | -22.25 | Horizontal | | | |
| 14532.00 | * | | | | | 74.00 | | Horizontal | | | |

| Test mode: | | 802.11n(H40) | | Test channel: | | Lowest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4844.00 | 30.01 | 31.56 | 5.89 | 34.58 | 32.88 | 54.00 | -21.12 | Vertical | | | |
| 7266.00 | 30.09 | 36.49 | 7.10 | 36.12 | 37.56 | 54.00 | -16.44 | Vertical | | | |
| 9688.00 | 28.91 | 38.25 | 9.03 | 35.97 | 40.22 | 54.00 | -13.78 | Vertical | | | |
| 12110.00 | 30.11 | 39.34 | 10.21 | 36.11 | 43.55 | 54.00 | -10.45 | Vertical | | | |
| 14532.00 | * | | | | | 54.00 | | Vertical | | | |
| 4844.00 | 31.44 | 31.56 | 5.89 | 34.58 | 34.31 | 54.00 | -19.69 | Horizontal | | | |
| 7266.00 | 31.38 | 36.49 | 7.12 | 36.12 | 38.87 | 54.00 | -15.13 | Horizontal | | | |
| 9688.00 | 31.09 | 38.25 | 9.03 | 35.97 | 42.40 | 54.00 | -11.60 | Horizontal | | | |
| 12110.00 | 31.11 | 39.34 | 10.21 | 36.11 | 44.55 | 54.00 | -9.45 | Horizontal | | | |
| 14532.00 | * | | | | | 54.00 | | Horizontal | | | |

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| Test mode: | | 802.11n(H40) | | Test channel: | | Middle | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4874 | 36.90 | 31.57 | 5.91 | 34.65 | 39.73 | 74.00 | -34.27 | Vertical | | | |
| 7311 | 37.09 | 36.48 | 7.14 | 36.14 | 44.57 | 74.00 | -29.43 | Vertical | | | |
| 9748 | 37.36 | 38.40 | 9.06 | 36.12 | 48.70 | 74.00 | -25.30 | Vertical | | | |
| 12185 | 37.54 | 39.30 | 10.26 | 36.29 | 50.81 | 74.00 | -23.19 | Vertical | | | |
| 14622 | * | | | | | 74.00 | | Vertical | | | |
| 4874 | 37.25 | 31.57 | 5.91 | 34.65 | 40.08 | 74.00 | -33.92 | Horizontal | | | |
| 7311 | 36.96 | 36.48 | 7.14 | 36.14 | 44.44 | 74.00 | -29.56 | Horizontal | | | |
| 9748 | 36.63 | 38.45 | 9.06 | 36.18 | 47.96 | 74.00 | -26.04 | Horizontal | | | |
| 12185 | 37.09 | 39.30 | 10.26 | 36.29 | 50.36 | 74.00 | -23.64 | Horizontal | | | |
| 14622 | * | | | | | 74.00 | | Horizontal | | | |

| Test mode: | | 802.11n(H40) | | Test channel: | | Middle | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|--|-----------------|--------------------|----------------|---------------------|-----------------|--------------|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | |
| 4874 | 30.98 | 31.57 | | 5.91 | 34.65 | 33.81 | 54.00 | -20.19 | Vertical | | |
| 7311 | 30.17 | 36.48 | | 7.14 | 36.14 | 37.65 | 54.00 | -16.35 | Vertical | | |
| 9748 | 30.08 | 38.40 | | 9.06 | 36.12 | 41.42 | 54.00 | -12.58 | Vertical | | |
| 12185 | 31.35 | 39.30 | | 10.26 | 36.29 | 44.62 | 54.00 | -9.38 | Vertical | | |
| 14622 | * | | | | | | 54.00 | | Vertical | | |
| 4874 | 30.10 | 31.57 | | 5.91 | 34.65 | 32.93 | 54.00 | -21.07 | Horizontal | | |
| 7311 | 30.36 | 36.48 | | 7.14 | 36.14 | 37.84 | 54.00 | -16.16 | Horizontal | | |
| 9748 | 29.07 | 38.45 | | 9.06 | 36.18 | 40.40 | 54.00 | -13.60 | Horizontal | | |
| 12185 | 30.96 | 39.30 | | 10.26 | 36.29 | 44.23 | 54.00 | -9.77 | Horizontal | | |
| 14622 | * | | | | | | 54.00 | | Horizontal | | |

| Test mode: | | 802.11n(H40) | | Test channel: | | Highest | | Remark: | | Peak | |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | | |
| 4904 | 36.42 | 31.61 | 5.93 | 34.76 | 39.20 | 74.00 | -34.80 | Vertical | | | |
| 7356 | 38.09 | 36.54 | 7.16 | 36.16 | 45.63 | 74.00 | -28.37 | Vertical | | | |
| 9808 | 36.82 | 38.67 | 9.08 | 36.41 | 48.16 | 74.00 | -25.84 | Vertical | | | |
| 12260 | 37.05 | 39.16 | 10.26 | 36.47 | 50.00 | 74.00 | -24.00 | Vertical | | | |
| 14712 | * | | | | | 74.00 | | Vertical | | | |
| 4904 | 37.09 | 31.59 | 5.93 | 34.72 | 39.89 | 74.00 | -34.11 | Horizontal | | | |
| 7356 | 37.67 | 36.49 | 7.16 | 36.16 | 45.16 | 74.00 | -28.84 | Horizontal | | | |
| 9808 | 37.66 | 38.64 | 9.08 | 36.35 | 49.03 | 74.00 | -24.97 | Horizontal | | | |
| 12260 | 37.55 | 39.11 | 10.32 | 36.52 | 50.46 | 74.00 | -23.54 | Horizontal | | | |
| 14712 | * | | | | | 74.00 | | Horizontal | | | |

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| Test mode: | | 802.11n(H40) | | Test channel: | | Highest | | Remark: | | Average | |
|-----------------|-------------------|-----------------------|--|-----------------|--------------------|----------------|---------------------|-----------------|--------------|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization | | |
| 4904 | 29.33 | 31.61 | | 5.93 | 34.76 | 32.11 | 54.00 | -21.89 | Vertical | | |
| 7356 | 31.29 | 36.54 | | 7.16 | 36.16 | 38.83 | 54.00 | -15.17 | Vertical | | |
| 9808 | 29.35 | 38.67 | | 9.08 | 36.41 | 40.69 | 54.00 | -13.31 | Vertical | | |
| 12260 | 29.99 | 39.16 | | 10.26 | 36.47 | 42.94 | 54.00 | -11.06 | Vertical | | |
| 14712 | * | | | | | | 54.00 | | Vertical | | |
| 4904 | 29.35 | 31.59 | | 5.93 | 34.72 | 32.15 | 54.00 | -21.85 | Horizontal | | |
| 7356 | 31.21 | 36.49 | | 7.16 | 36.16 | 38.70 | 54.00 | -15.30 | Horizontal | | |
| 9808 | 30.22 | 38.64 | | 9.08 | 36.35 | 41.59 | 54.00 | -12.41 | Horizontal | | |
| 12260 | 31.15 | 39.11 | | 10.32 | 36.52 | 44.06 | 54.00 | -9.94 | Horizontal | | |
| 14712 | * | | | | | | 54.00 | | Horizontal | | |

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”*, means this data is the too weak instrument of signal is unable to test.
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

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