

FCC REPORT (WIFI)

Applicant: Nexpro International Limitada

Address of Applicant: Guadalupe, Barrio Tournon, Frente Al Hotel Villas Oficinas Del Bufete Facio Y Canas

Equipment Under Test (EUT)

Product Name: 3G smartphone

Model No.: WINK

FCC ID: ZYPWINK

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

Date of sample receipt: 29 Aug., 2014

Date of Test: 29 Aug., to 03 Nov., 2014

Date of report issued: 04 Nov., 2014

Test Result: PASS *

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

Authorized Signature:



Bruce Zhang
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 CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. 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.

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2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 04 Nov., 2014 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared by:

Luna Gao

Date:

04 Nov., 2014

Report Clerk

Reviewed by:

Atomb Yang

Date:

04 Nov., 2014

Project Engineer

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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 Emission Bandwidth 99% 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: | Nexpro International Limitada |
| Address of Applicant: | Guadalupe, Barrio Tournon, Frente Al Hotel Villas Oficinas Del Bufete Facio Y Canas |

5.2 General Description of E.U.T.

| | |
|--|--|
| Product Name: | 3G smartphone |
| Model No.: | WINK |
| 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 802.11n(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: | Internal Antenna |
| Antenna gain: | -4.5 dBi |
| AC adapter: | Input: AC 100-240V 50/60Hz 0.2A Output: DC 5.0V, 500mA |
| Power supply: | Rechargeable Li-ion Battery DC3.7V-1600mAh |

Operation Frequency each of channel For 802.11b/g/n(H20)

| 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 | | |

Operation Frequency each of channel For 802.11n(H40)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| | | 4 | 2427MHz | 7 | 2442MHz | | |
| | | 5 | 2432MHz | 8 | 2447MHz | | |
| 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: | |
| Operation mode | Keep the EUT in continuous transmitting with modulation |
| <p>The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> | |

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) | 13.5Mbps |

| |
|--|
| Final Test Mode: |
| <p>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) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.</p> |

5.4 Laboratory Facility

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

- **FCC - Registration No.: 817957**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 817957, February 27, 2012.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.5 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282

Fax: +86-755-23116366


5.6 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 | SAEMC | 9(L)*6(W)* 6(H) | CCIS0001 | Aug 23 2014 | Aug 22 2017 |
| 2 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | CCIS0005 | Apr 19 2014 | Apr 19 2015 |
| 3 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA9120D | CCIS0006 | Apr 19 2014 | Apr 19 2015 |
| 4 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 5 | Amplifier (10kHz-1.3GHz) | HP | 8447D | CCIS0003 | Apr. 01 2014 | Mar. 31 2015 |
| 6 | Amplifier (1GHz-18GHz) | Compliance Direction Systems Inc. | PAP-1G18 | CCIS0011 | June 09 2014 | June 08 2015 |
| 7 | Pre-amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | Apr. 01 2014 | Mar. 31 2015 |
| 8 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 30 2014 | Mar. 29 2015 |
| 9 | Printer | HP | HP LaserJet P1007 | N/A | N/A | N/A |
| 10 | Positioning Controller | UC | UC3000 | CCIS0015 | N/A | N/A |
| 11 | Spectrum analyzer 9k-30GHz | Rohde & Schwarz | FSP | CCIS0023 | Apr 19 2014 | Apr 19 2015 |
| 12 | EMI Test Receiver | Rohde & Schwarz | ESPI | CCIS0022 | Apr 01 2014 | Mar. 31 2015 |
| 13 | Loop antenna | Laplace instrument | RF300 | EMC0701 | Apr 01 2014 | Mar. 31 2015 |
| 14 | Universal radio communication tester | Rhode & Schwarz | CMU200 | CCIS0069 | May. 29 2014 | May. 28 2015 |
| 15 | Signal Analyzer | Rohde & Schwarz | FSIQ3 | CCIS0088 | Apr 19 2014 | Apr 19 2015 |

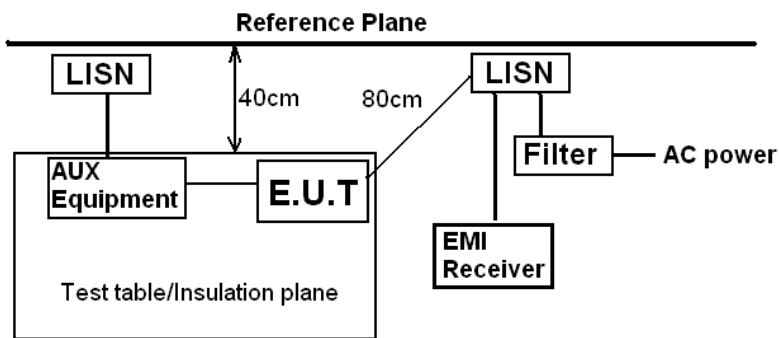
| Conducted Emission: | | | | | | |
|---------------------|-------------------|--------------------|-----------------------|---------------|----------------------|--------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061 | Oct 10 2012 | Oct 09 2015 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCI | CCIS0002 | Apr 10 2014 | Apr 09 2015 |
| 3 | LISN | CHASE | MN2050D | CCIS0074 | Apr 10 2014 | Apr 10 2015 |
| 4 | Coaxial Cable | CCIS | N/A | CCIS0086 | Apr. 01 2014 | Mar. 31 2015 |
| 5 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |

6 Test results and Measurement Data

6.1 Antenna requirement:

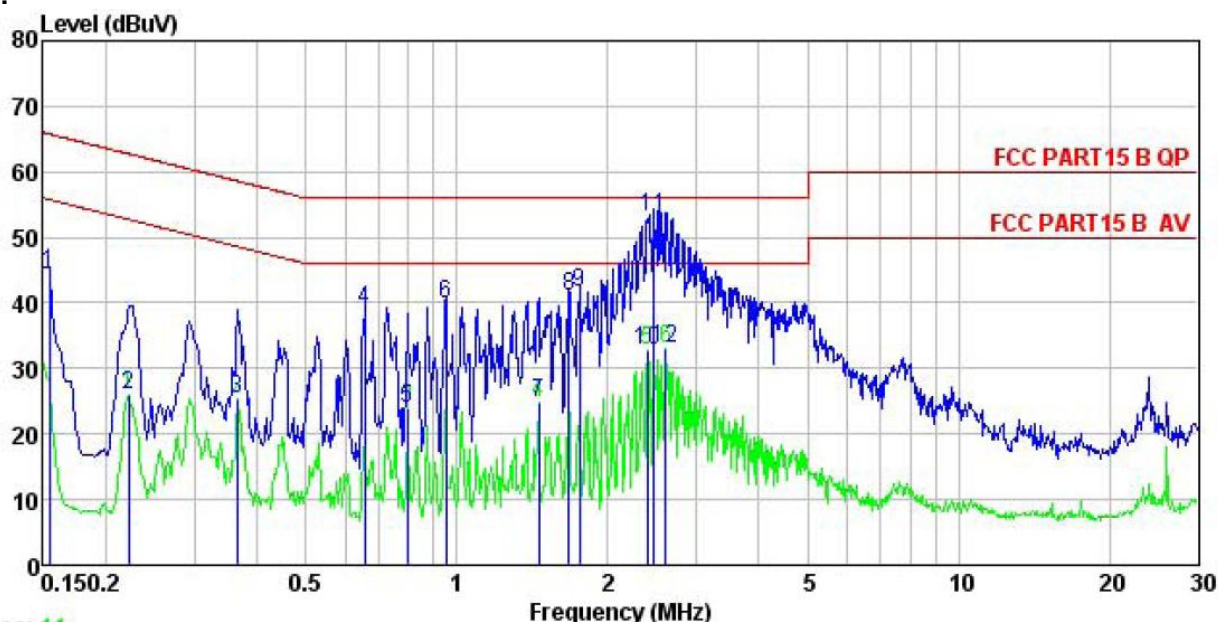
| | |
|--|-------------------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
| <p><i>15.203 requirement:</i> <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The 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.</i></p> <p><i>15.247(c) (1)(i) requirement:</i> <i>(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></p> | |
| E.U.T Antenna: | |
| <p><i>The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is -4.5 dBi.</i></p> | |
|  | |

6.2 Conducted Emission

| | | | |
|-----------------------|---|--------------|-----------|
| Test Requirement: | FCC Part15 C Section 15.207 | | |
| Test Method: | ANSI C63.4: 2003 | | |
| Test Frequency Range: | 150 kHz to 30 MHz | | |
| Class / Severity: | Class B | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz | | |
| 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.), which provides 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 refer 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: 2003 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 5.6 for details | | |
| Test mode: | Refer to section 5.3 for details | | |
| Test results: | Passed | | |

Measurement Data

Neutral:

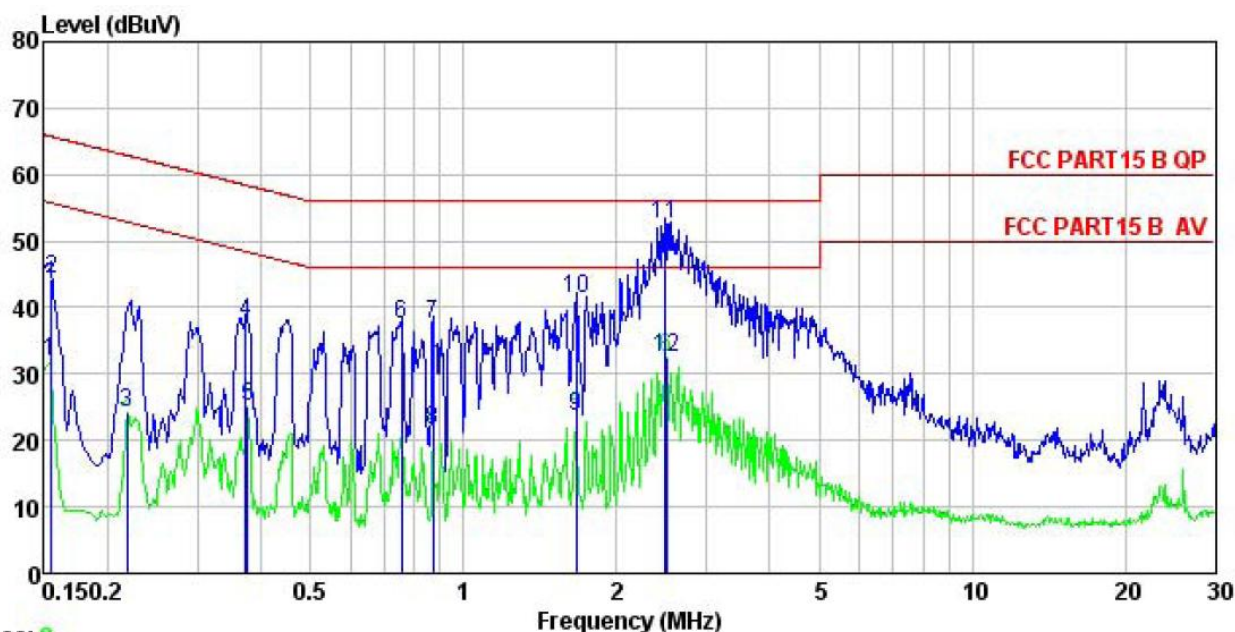


Trace: 11

Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job No. : 734RF
 EUT : 3G smartphone
 Model : WINK
 Test Mode : WIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Colin
 Remark :

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|----|-------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.154 | 33.53 | 0.25 | 10.78 | 44.56 | 65.78 | -21.22 | QP |
| 2 | 0.222 | 14.83 | 0.25 | 10.75 | 25.83 | 52.74 | -26.91 | Average |
| 3 | 0.365 | 14.46 | 0.25 | 10.73 | 25.44 | 48.61 | -23.17 | Average |
| 4 | 0.654 | 27.92 | 0.20 | 10.77 | 38.89 | 56.00 | -17.11 | QP |
| 5 | 0.796 | 12.91 | 0.19 | 10.81 | 23.91 | 46.00 | -22.09 | Average |
| 6 | 0.953 | 28.64 | 0.21 | 10.86 | 39.71 | 56.00 | -16.29 | QP |
| 7 | 1.456 | 13.60 | 0.26 | 10.92 | 24.78 | 46.00 | -21.22 | Average |
| 8 | 1.671 | 29.70 | 0.27 | 10.94 | 40.91 | 56.00 | -15.09 | QP |
| 9 | 1.753 | 30.31 | 0.28 | 10.94 | 41.53 | 56.00 | -14.47 | QP |
| 10 | 2.396 | 21.57 | 0.29 | 10.94 | 32.80 | 46.00 | -13.20 | Average |
| 11 | 2.474 | 42.04 | 0.29 | 10.94 | 53.27 | 56.00 | -2.73 | QP |
| 12 | 2.608 | 21.98 | 0.29 | 10.93 | 33.20 | 46.00 | -12.80 | Average |

Line:



Trace: 9

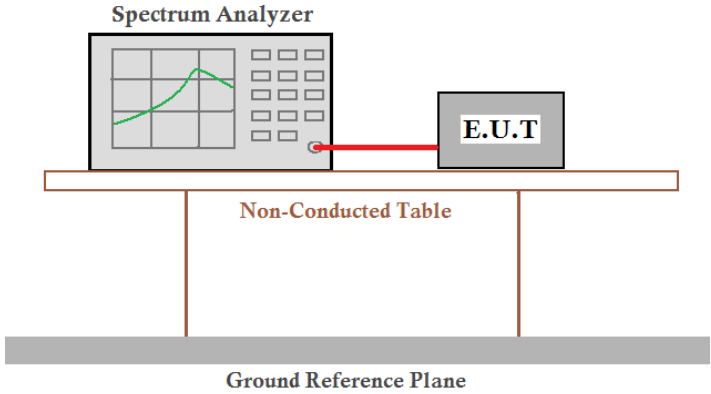
Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN LINE
 Job No. : 734RF
 EUT : 3G smartphone
 Model : WINK
 Test Mode : WIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Colin
 Remark :

| | Freq | Read | LISN | Cable | Level | Limit | Over | |
|----|-------|-------|--------|-------|-------|-------|--------|---------|
| | MHz | Level | Factor | Loss | Level | Line | Limit | Remark |
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.154 | 20.78 | 0.27 | 10.78 | 31.83 | 55.78 | -23.95 | Average |
| 2 | 0.155 | 33.14 | 0.27 | 10.78 | 44.19 | 65.74 | -21.55 | QP |
| 3 | 0.219 | 13.10 | 0.28 | 10.76 | 24.14 | 52.88 | -28.74 | Average |
| 4 | 0.373 | 26.89 | 0.28 | 10.73 | 37.90 | 58.43 | -20.53 | QP |
| 5 | 0.377 | 14.12 | 0.28 | 10.72 | 25.12 | 48.34 | -23.22 | Average |
| 6 | 0.755 | 26.42 | 0.23 | 10.79 | 37.44 | 56.00 | -18.56 | QP |
| 7 | 0.871 | 26.54 | 0.24 | 10.83 | 37.61 | 56.00 | -18.39 | QP |
| 8 | 0.871 | 10.49 | 0.24 | 10.83 | 21.56 | 46.00 | -24.44 | Average |
| 9 | 1.662 | 12.56 | 0.26 | 10.94 | 23.76 | 46.00 | -22.24 | Average |
| 10 | 1.671 | 30.06 | 0.26 | 10.94 | 41.26 | 56.00 | -14.74 | QP |
| 11 | 2.487 | 41.20 | 0.27 | 10.94 | 52.41 | 56.00 | -3.59 | QP |
| 12 | 2.500 | 21.12 | 0.27 | 10.94 | 32.33 | 46.00 | -13.67 | Average |

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss

6.3 Conducted Output Power

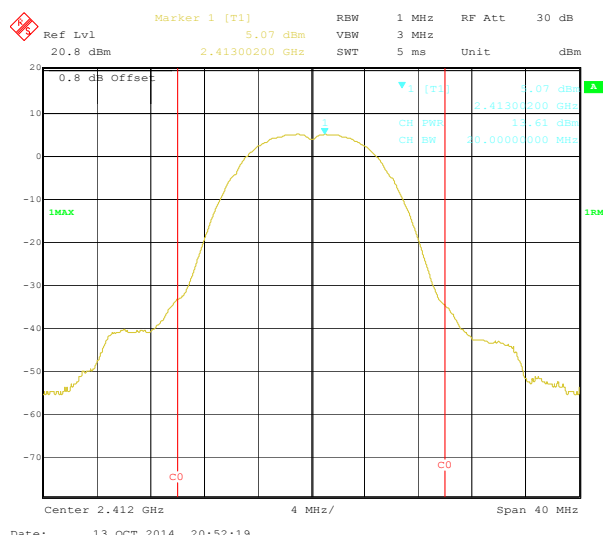
| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.4:2003 and KDB558074 |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.6 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | Test method refer to KDB558074 (DTS Measure Guidance) section 8.2, option 1. |

Measurement Data

| Test CH | Maximum Conducted Output Power (dBm) | | | | Limit(dBm) | Result |
|---------|--------------------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 13.61 | 13.50 | 11.33 | 11.55 | 30.00 | Pass |
| Middle | 13.41 | 13.56 | 11.62 | 11.31 | | |
| Highest | 13.14 | 13.36 | 11.27 | 11.27 | | |

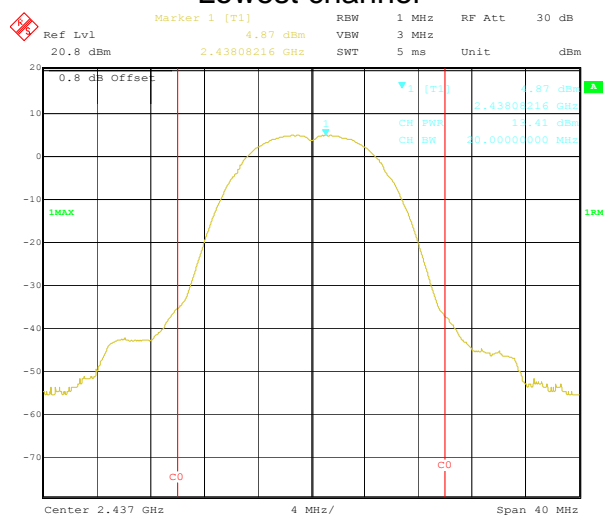
Test plot as follows:

Test mode: 802.11b



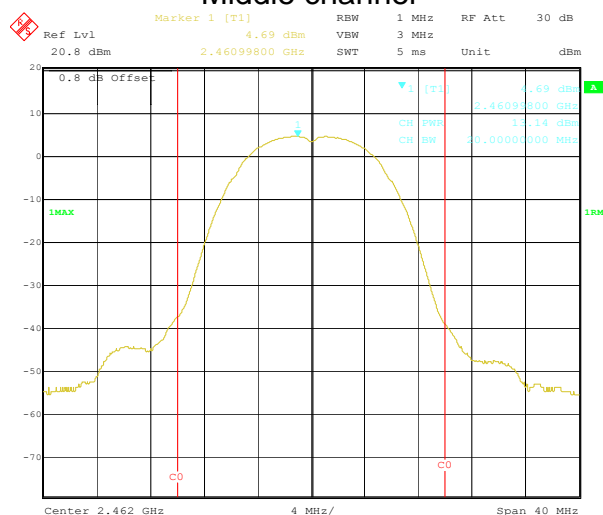
Date: 13.OCT.2014 20:52:19

Lowest channel



Date: 13.OCT.2014 20:52:55

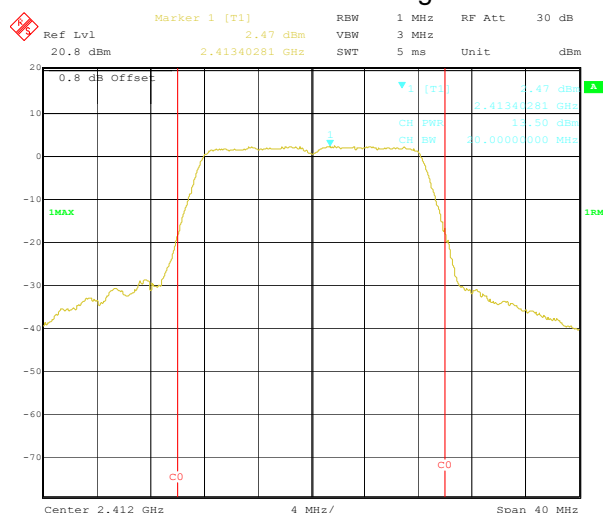
Middle channel



Date: 13.OCT.2014 20:55:25

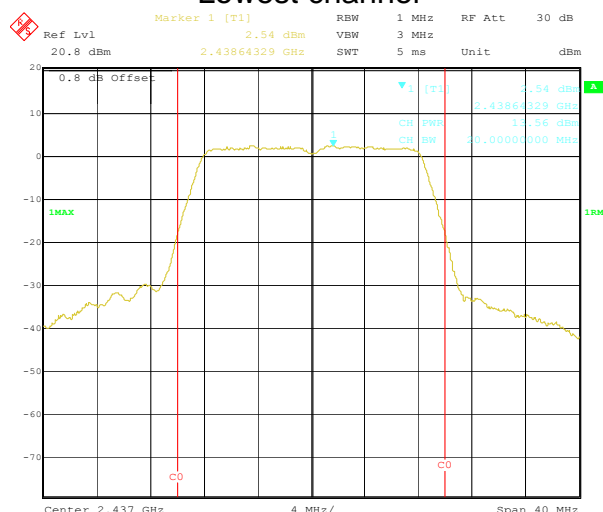
Highest channel

Test mode: 802.11g



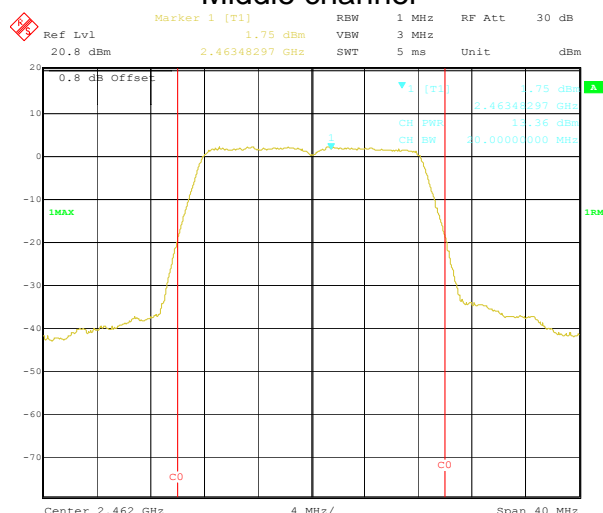
Date: 13.OCT.2014 20:51:12

Lowest channel



Date: 13.OCT.2014 20:50:25

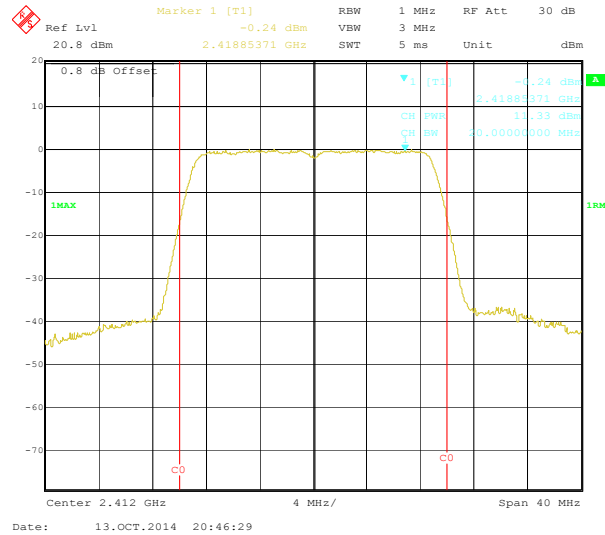
Middle channel



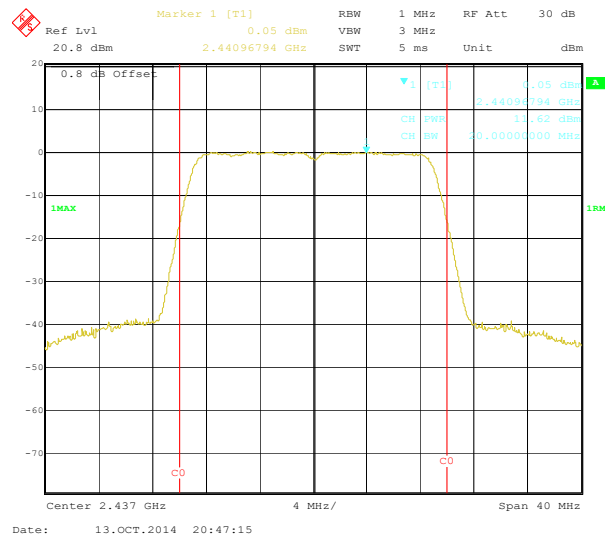
Date: 13.OCT.2014 20:49:19

Highest channel

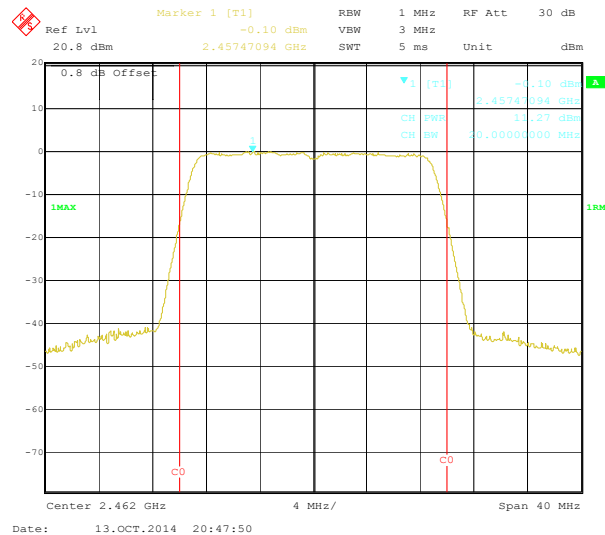
Test mode: 802.11n(H20)



Lowest channel

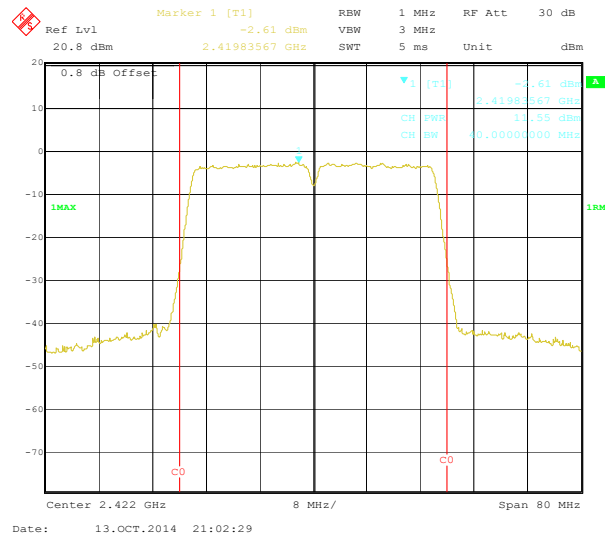


Middle channel

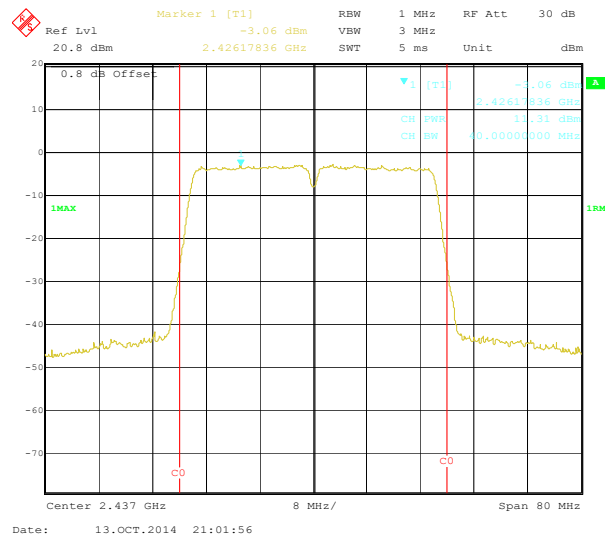


Highest channel

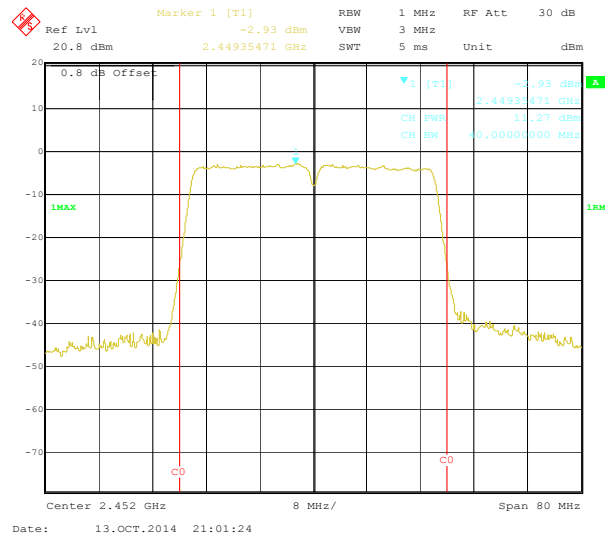
Test mode: 802.11n(H40)



Lowest channel

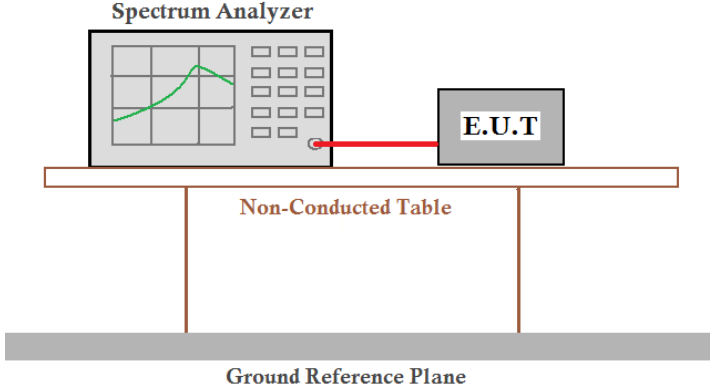


Middle channel



Highest channel

6.4 Occupy Bandwidth

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.4:2003 and KDB558074 |
| Limit: | >500kHz |
| Test setup: |  |
| Test Instruments: | Refer to section 5.6 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data

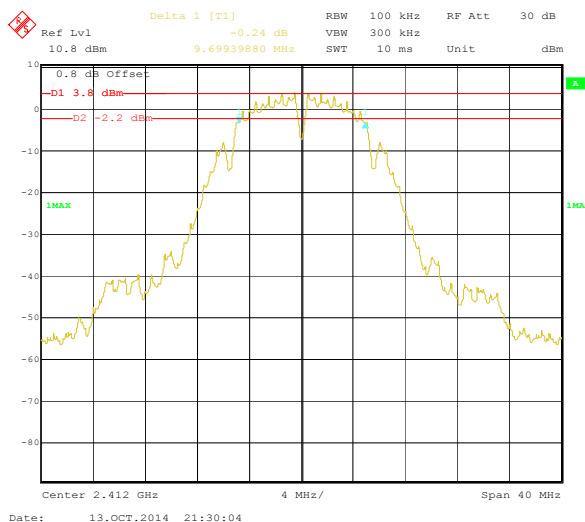
| Test CH | 6dB Emission Bandwidth (MHz) | | | | Limit(kHz) | Result |
|---------|------------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 9.70 | 16.75 | 17.96 | 36.71 | >500 | Pass |
| Middle | 9.46 | 16.75 | 17.96 | 36.71 | | |
| Highest | 9.54 | 16.75 | 17.96 | 36.71 | | |

| Test CH | 99% Occupy Bandwidth (MHz) | | | | Limit(kHz) | Result |
|---------|----------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 12.51 | 16.67 | 17.80 | 36.23 | N/A | N/A |
| Middle | 12.42 | 16.59 | 17.72 | 36.23 | | |
| Highest | 12.42 | 16.59 | 17.72 | 36.39 | | |

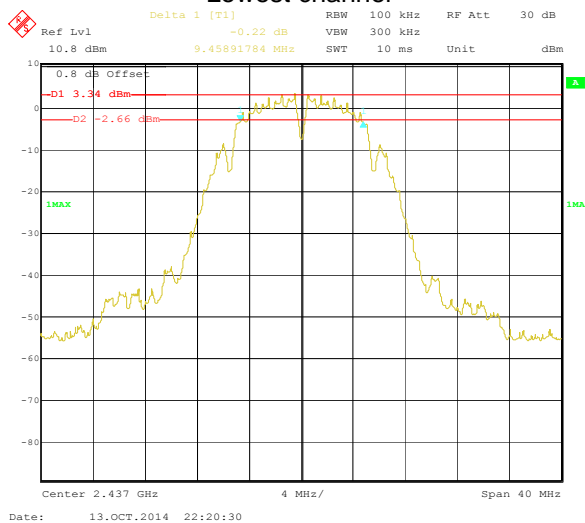
Test plot as follows:

6dB EBW

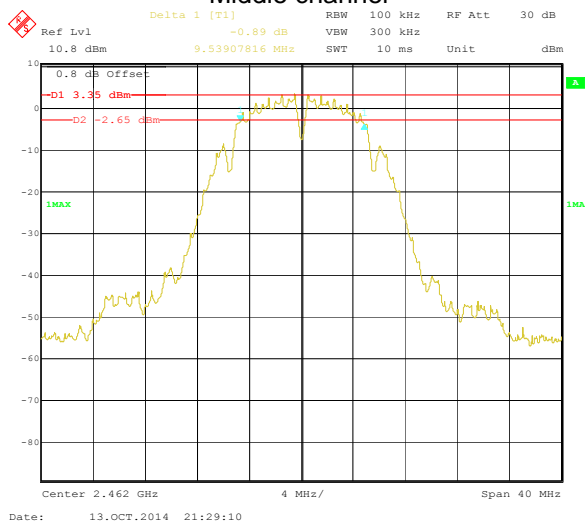
Test mode: 802.11b



Lowest channel

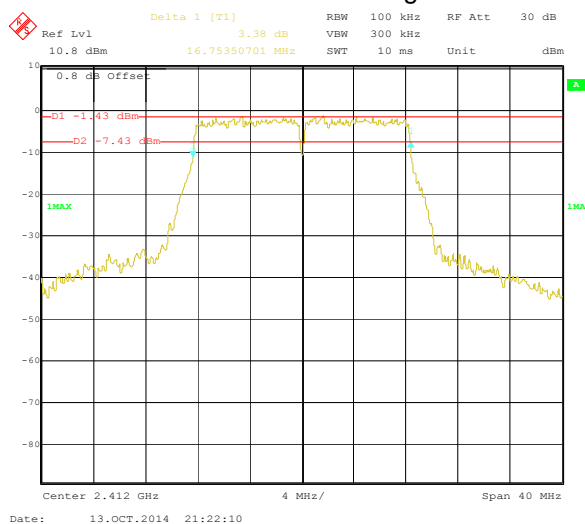


Middle channel

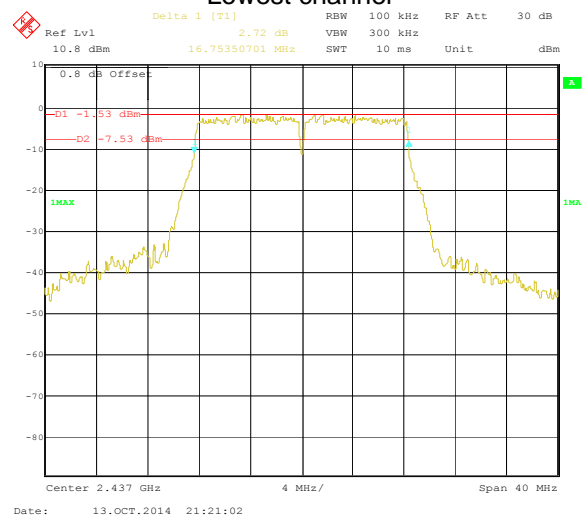


Highest channel

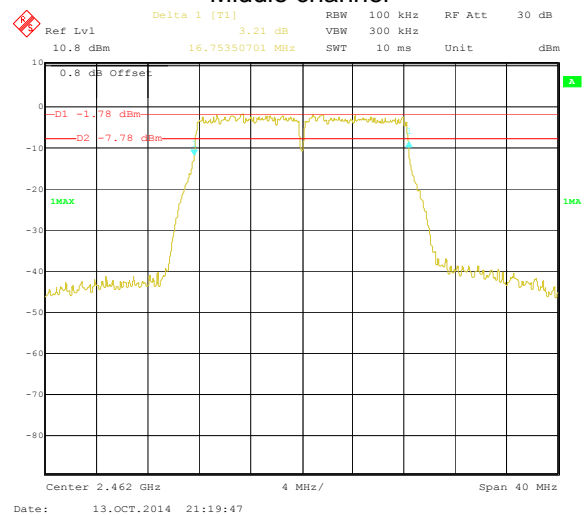
Test mode: 802.11g



Lowest channel

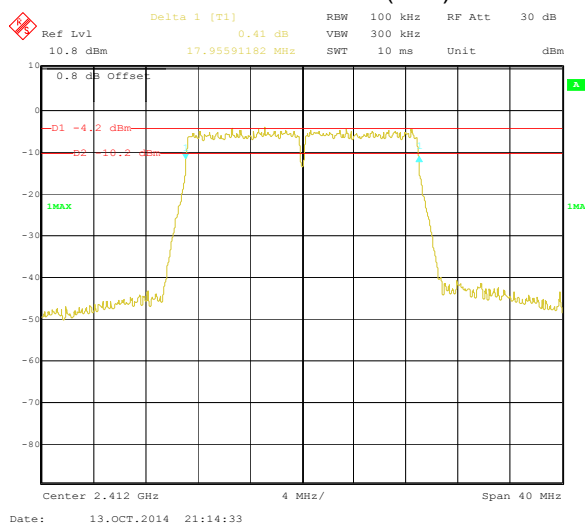


Middle channel

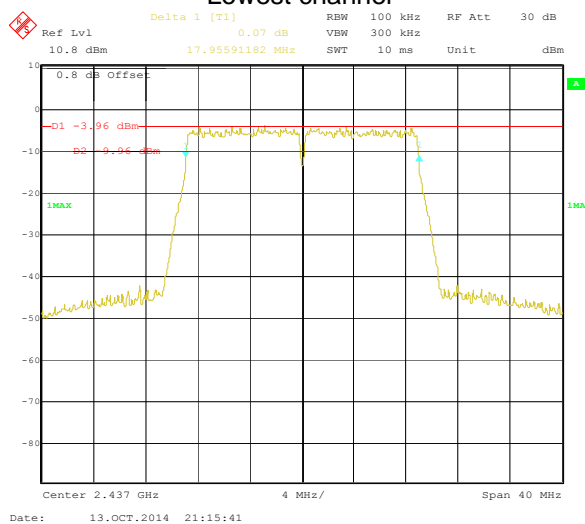


Highest channel

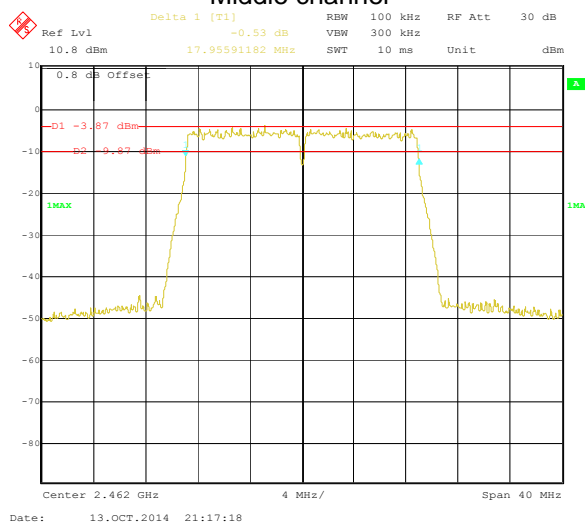
Test mode: 802.11n(H20)



Lowest channel

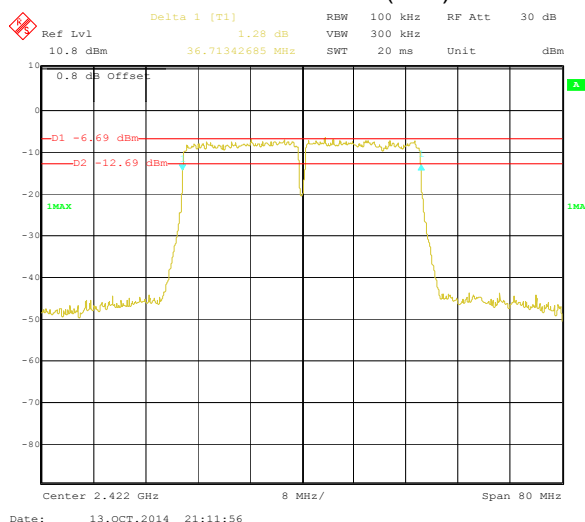


Middle channel

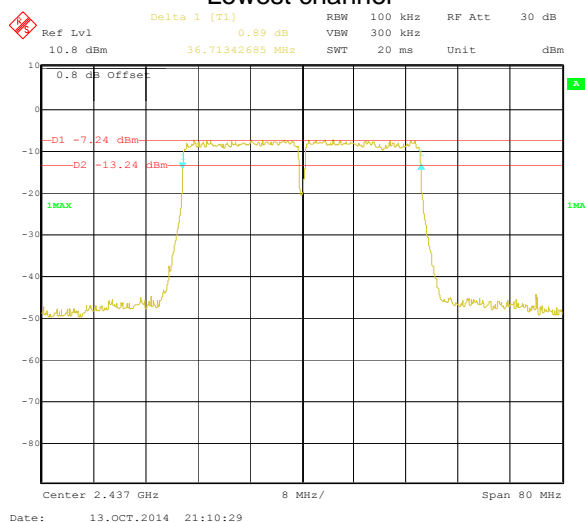


Highest channel

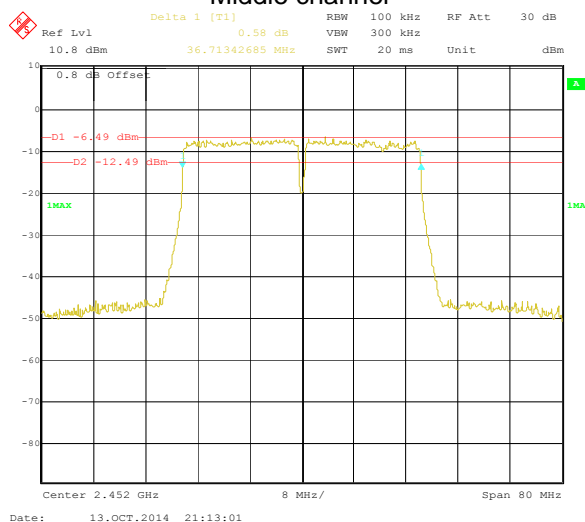
Test mode: 802.11n(H40)



Lowest channel



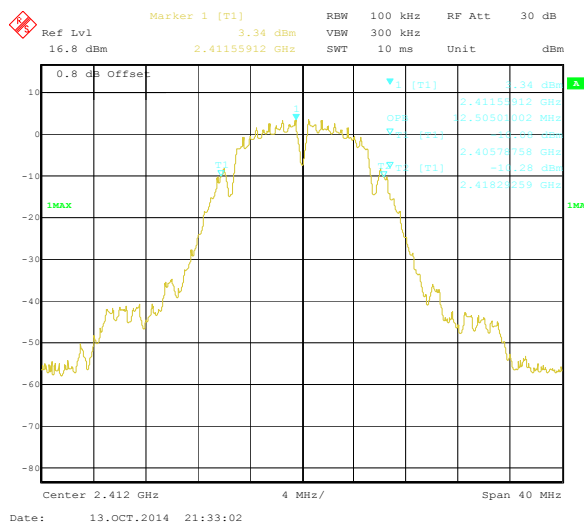
Middle channel



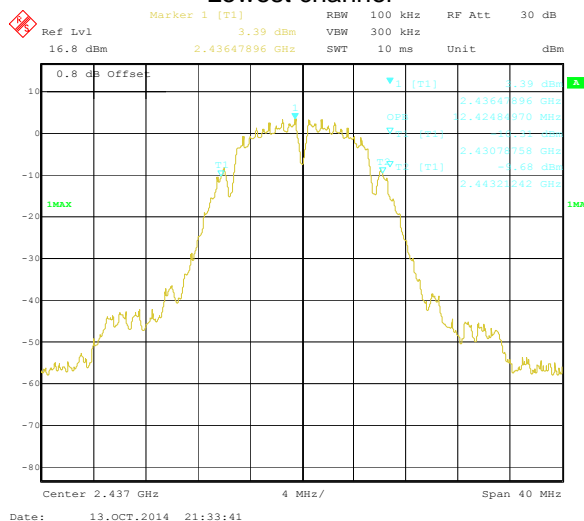
Highest channel

99% OBW

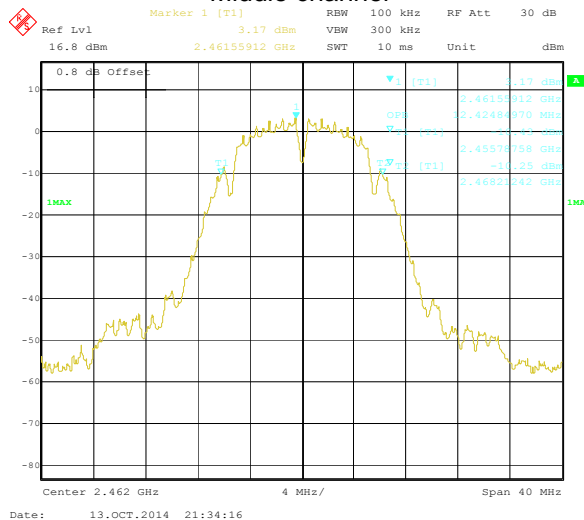
Test mode: 802.11b



Lowest channel

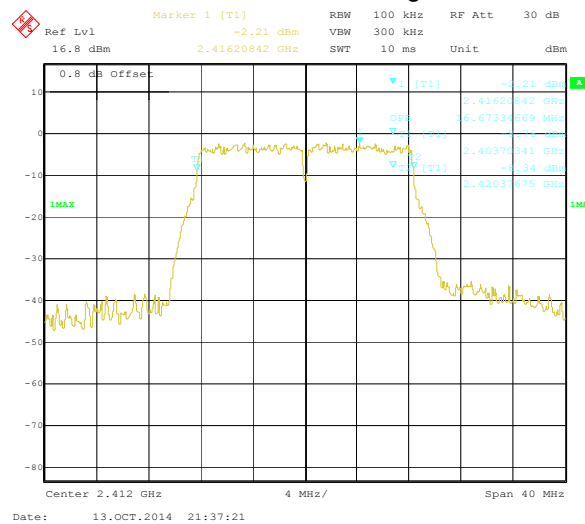


Middle channel

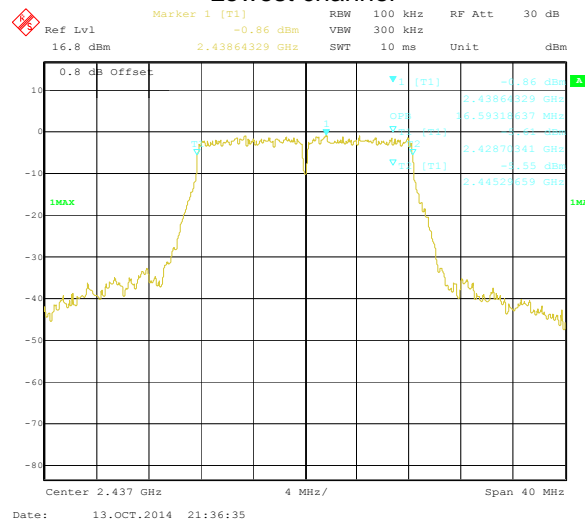


Highest channel

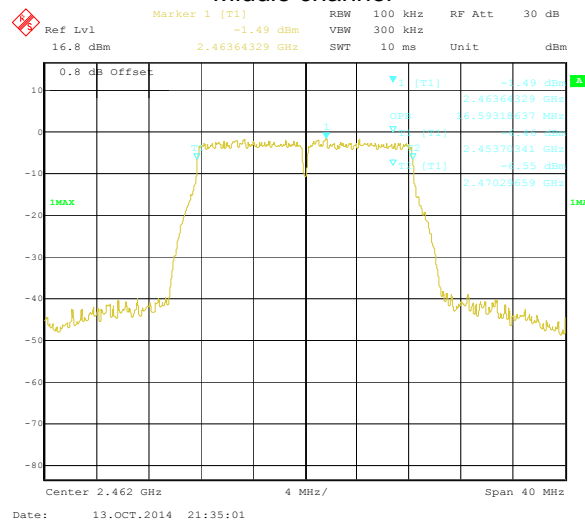
Test mode: 802.11g



Lowest channel

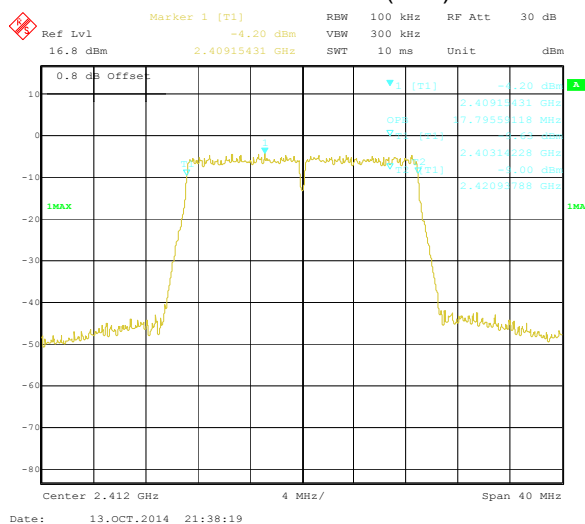


Middle channel

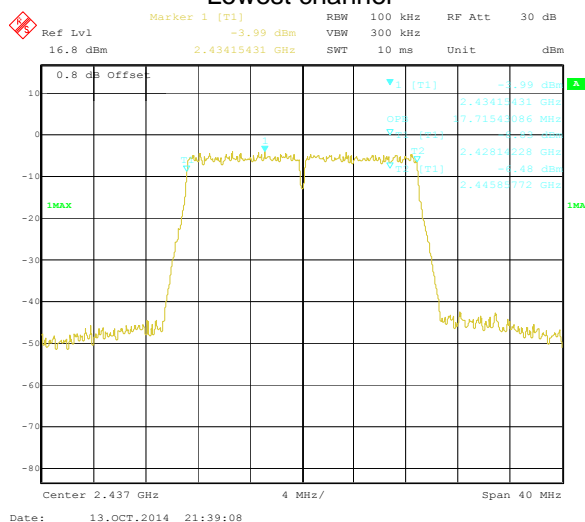


Highest channel

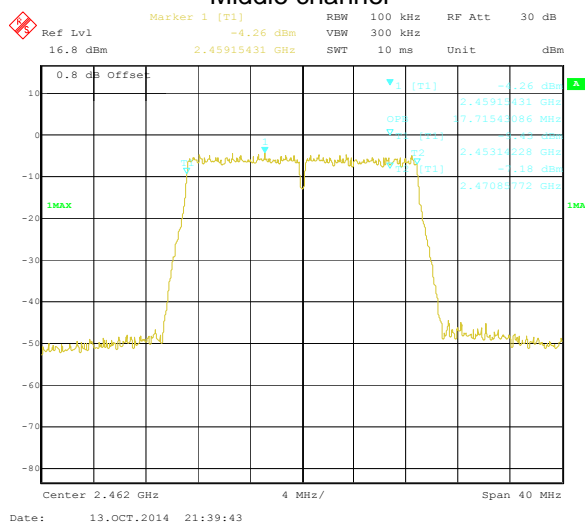
Test mode: 802.11n(H20)



Lowest channel

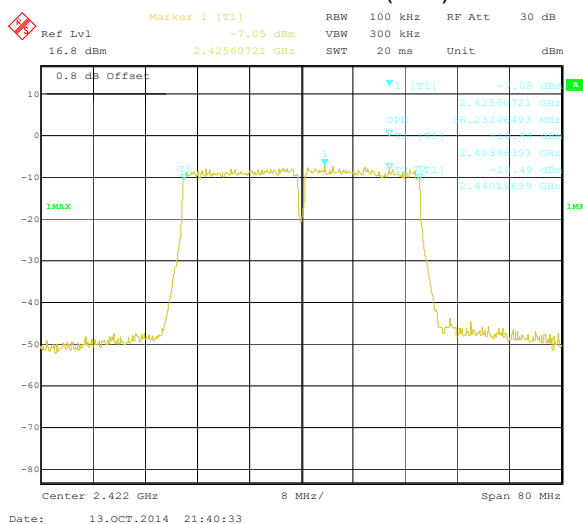


Middle channel

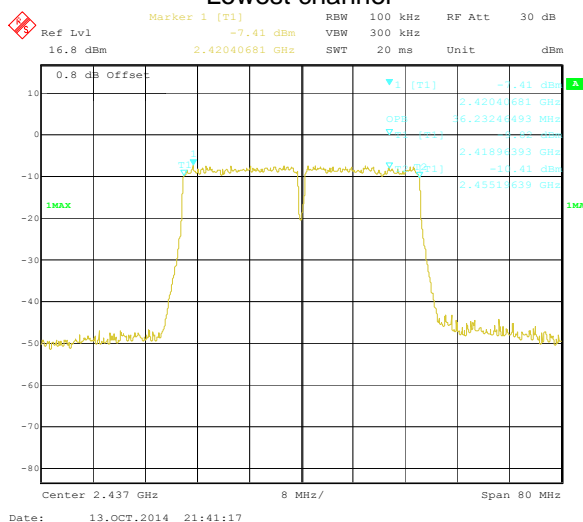


Highest channel

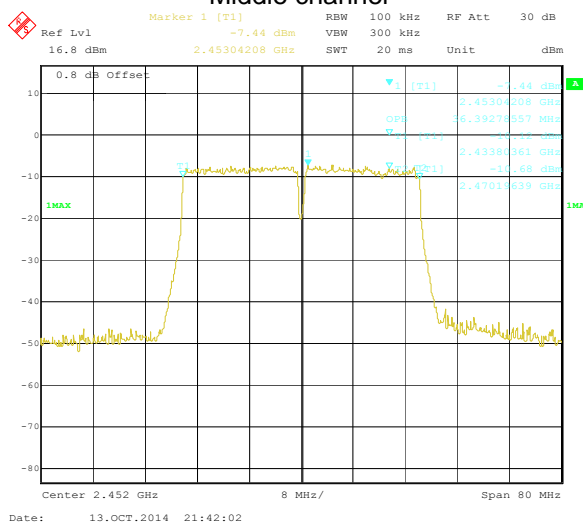
Test mode: 802.11n(H40)



Lowest channel

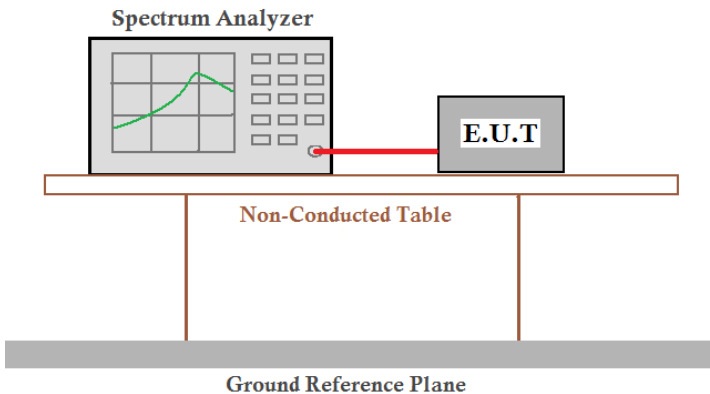


Middle channel



Highest channel

6.5 Power Spectral Density

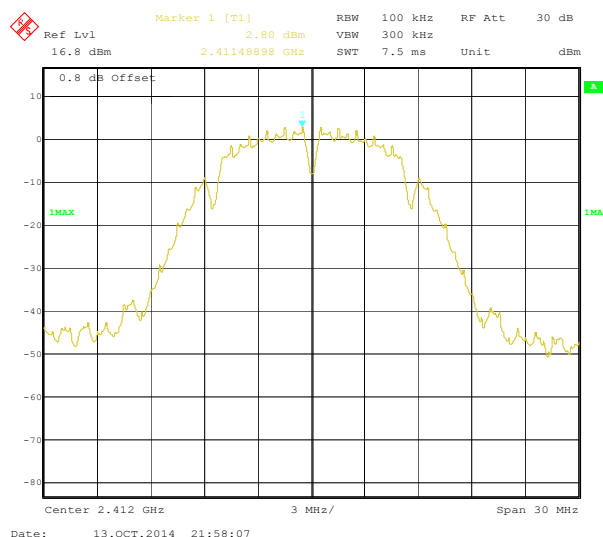
| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | ANSI C63.4:2003 and KDB558074 |
| Limit: | 8dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.6 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data

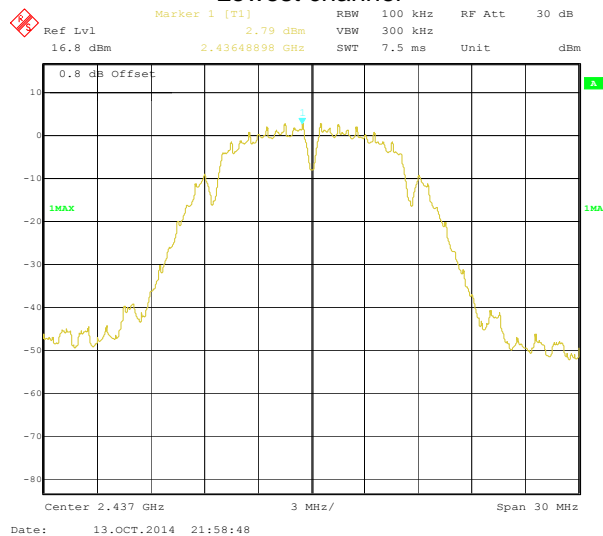
| Test CH | Power Spectral Density (dBm) | | | | Limit(dBm) | Result |
|---------|------------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 2.80 | -0.53 | -4.46 | -6.98 | 8.00 | Pass |
| Middle | 2.79 | -0.75 | -4.10 | -6.81 | | |
| Highest | 2.38 | -1.19 | -3.57 | -7.19 | | |

Test plot as follows:

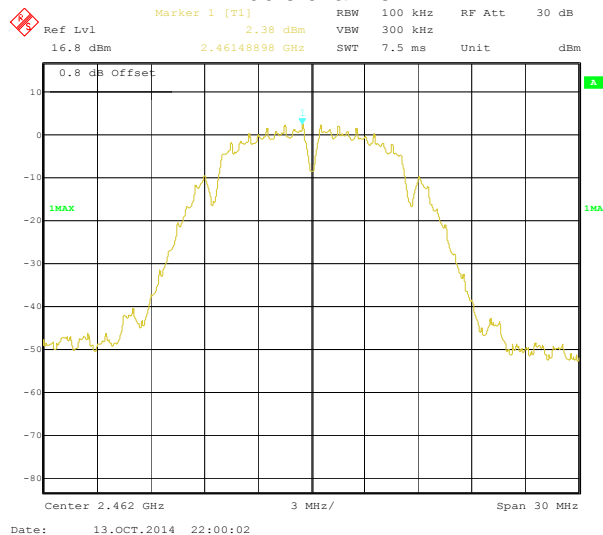
Test mode: 802.11b



Lowest channel

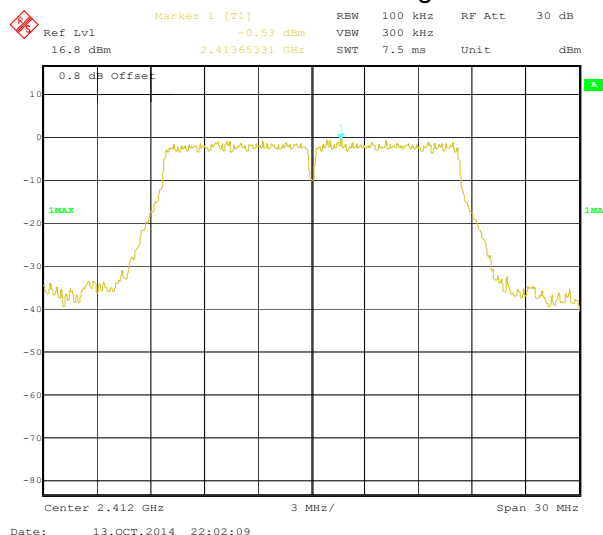


Middle channel

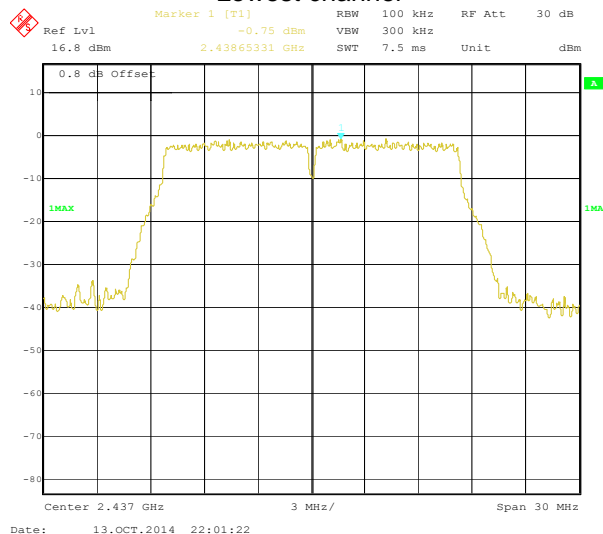


Highest channel

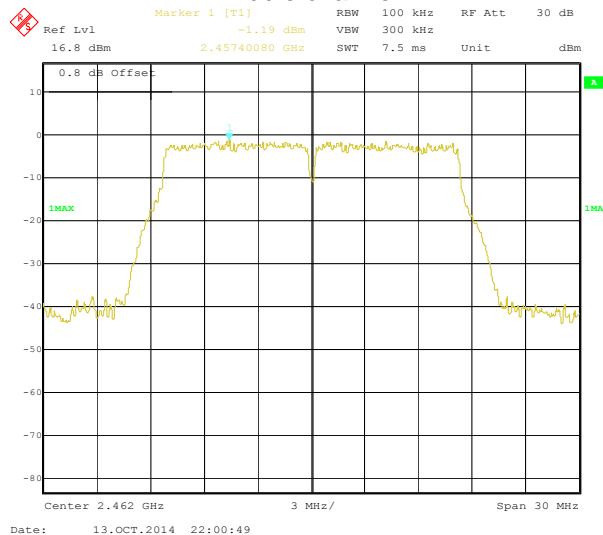
Test mode: 802.11g



Lowest channel

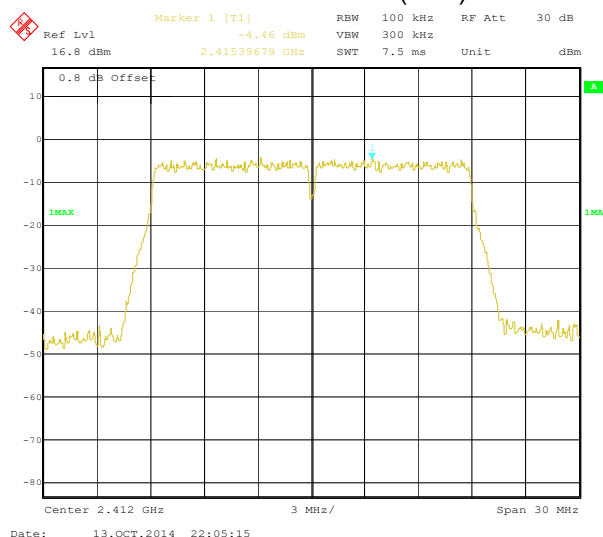


Middle channel

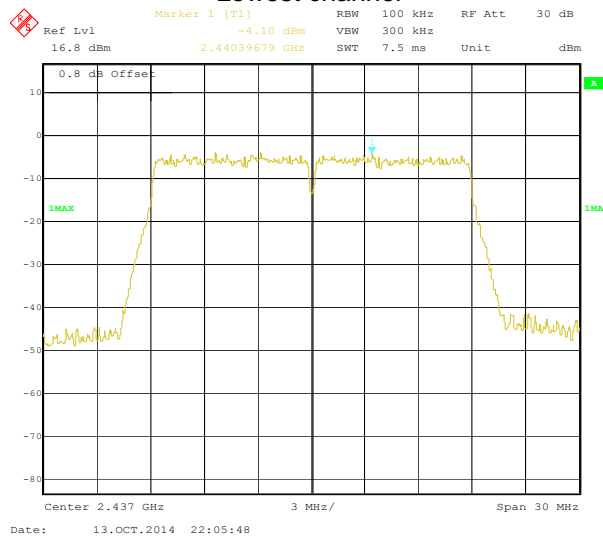


Highest channel

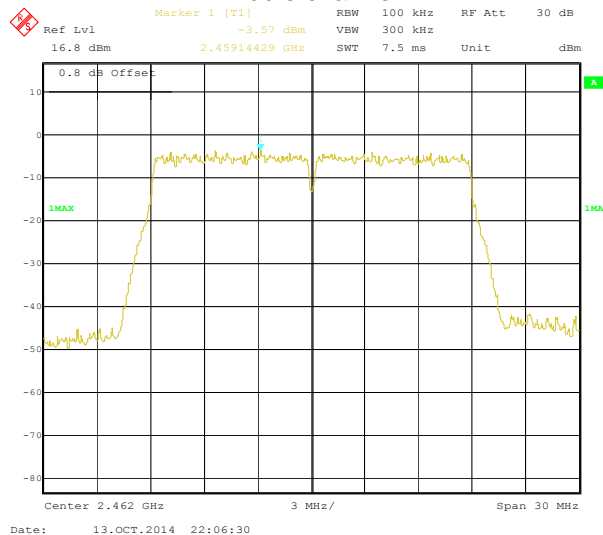
Test mode: 802.11n(H20)



Lowest channel

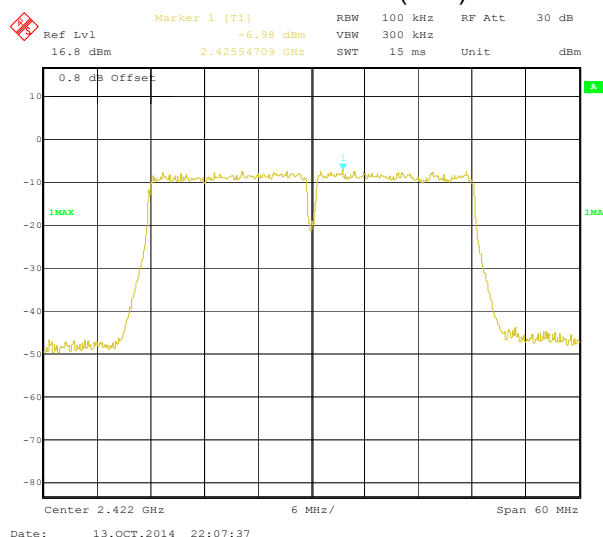


Middle channel

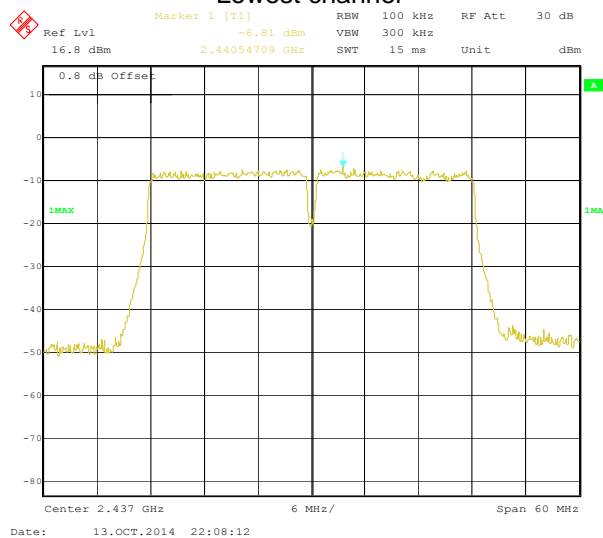


Highest channel

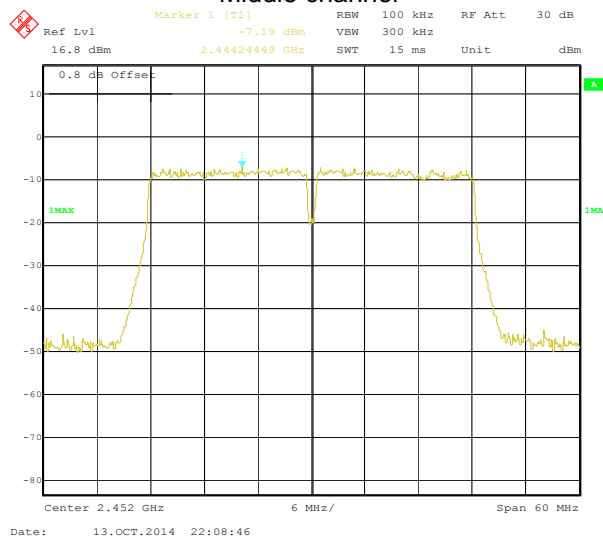
Test mode: 802.11n(H40)



Lowest channel



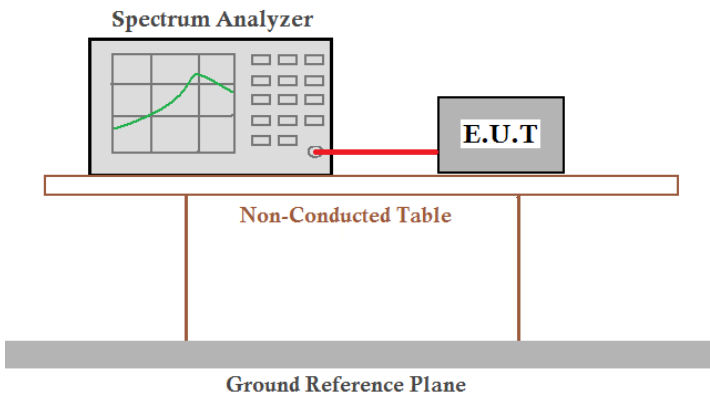
Middle channel



Highest channel

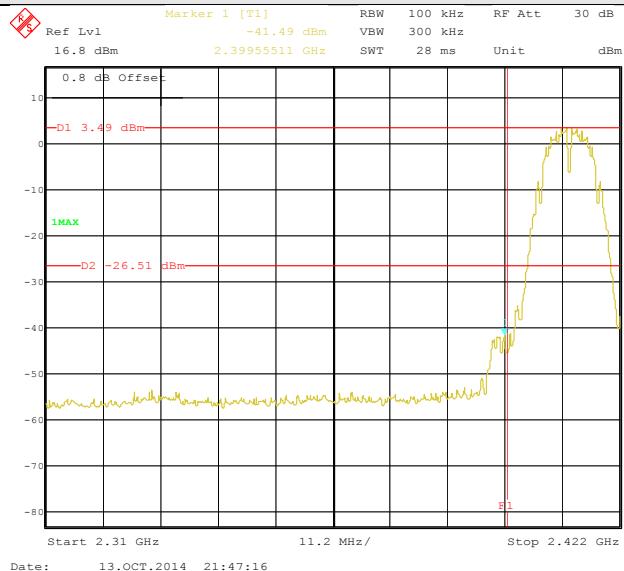
6.6 Band Edge

6.6.1 Conducted Emission Method

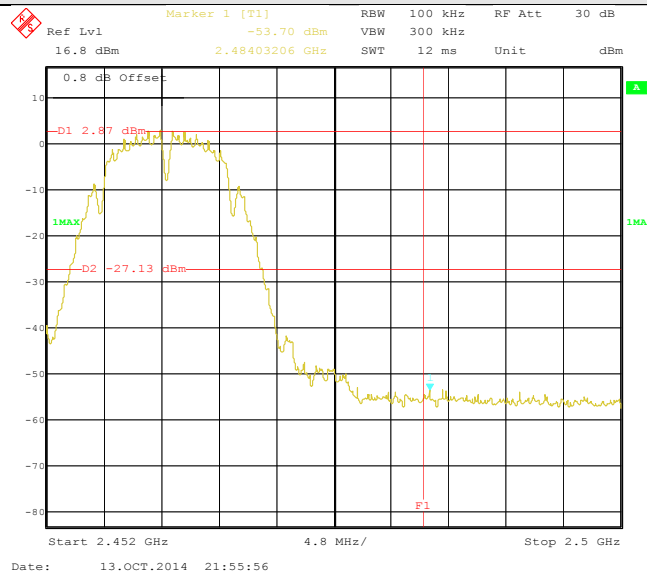
| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.4:2003 and KDB558074 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T are positioned on a table labeled 'Non-Conducted Table'. This table is supported by two vertical legs and sits on a thick grey horizontal bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.6 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Test plot as follows:

Test mode: 802.11b

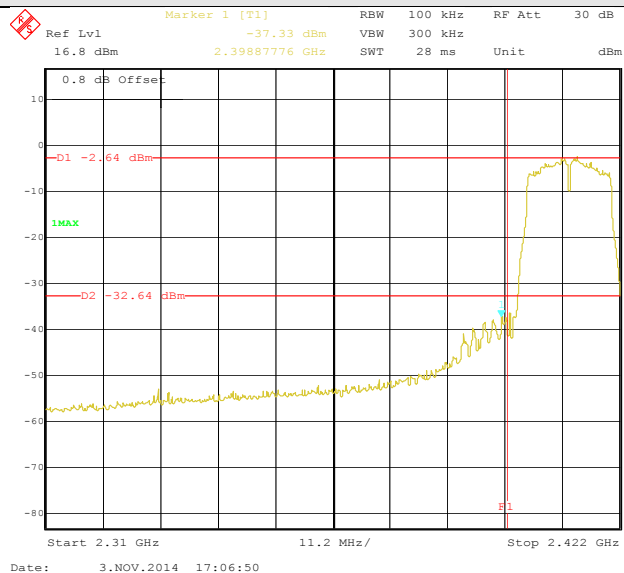


Lowest channel

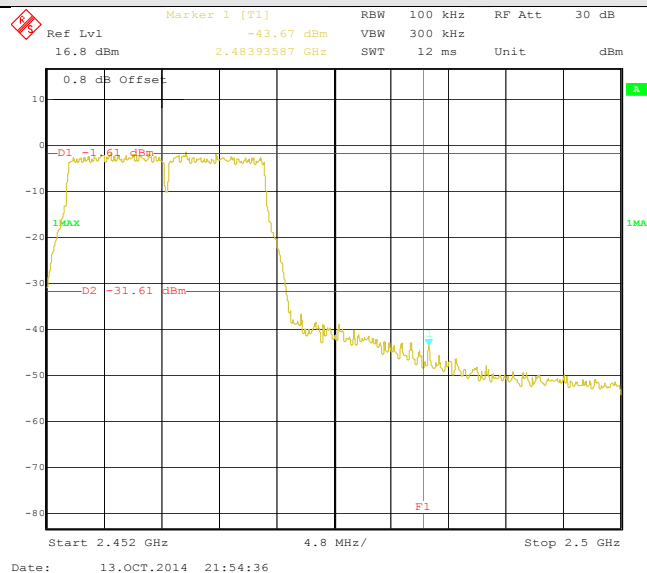


Highest channel

Test mode: 802.11g

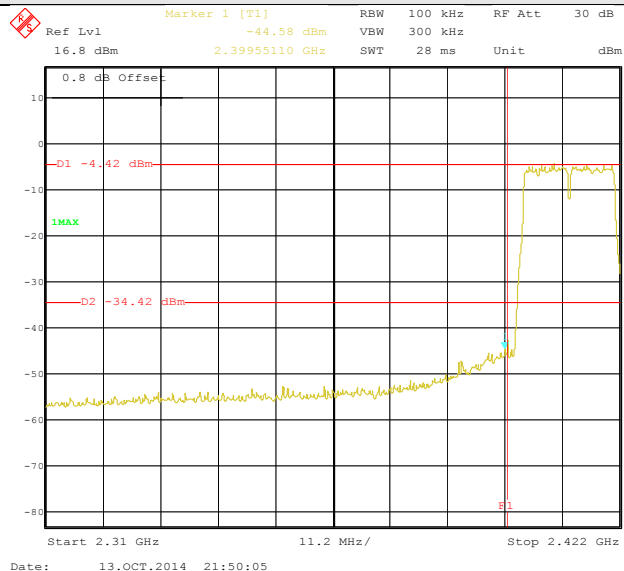


Lowest channel

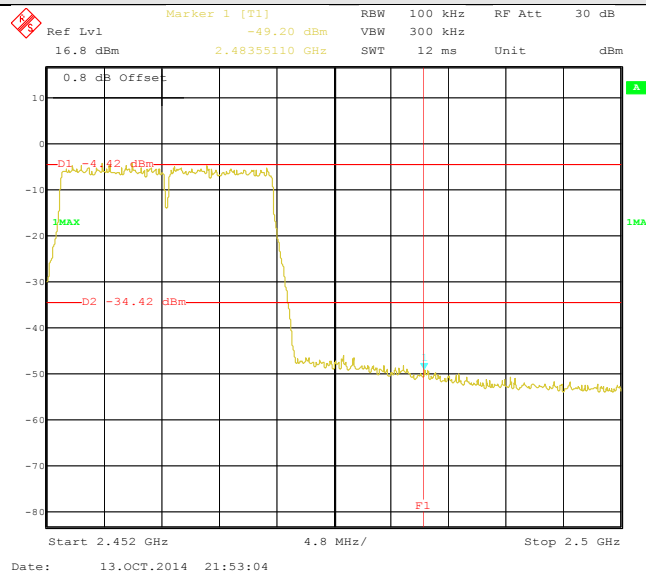


Highest channel

Test mode: 802.11n(H20)

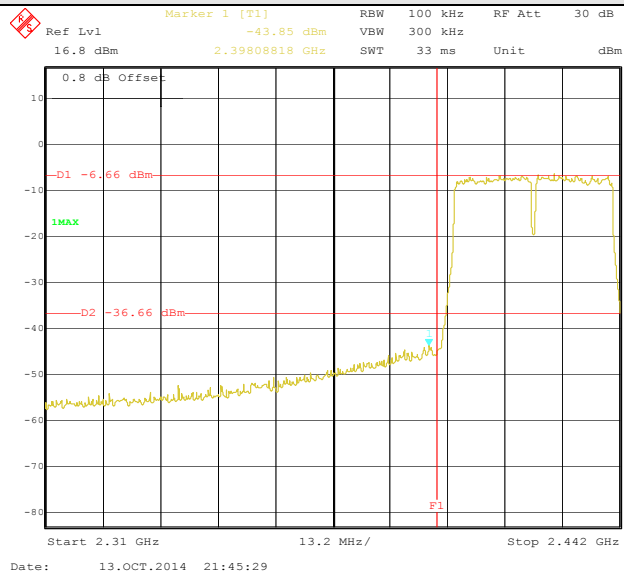


Lowest channel

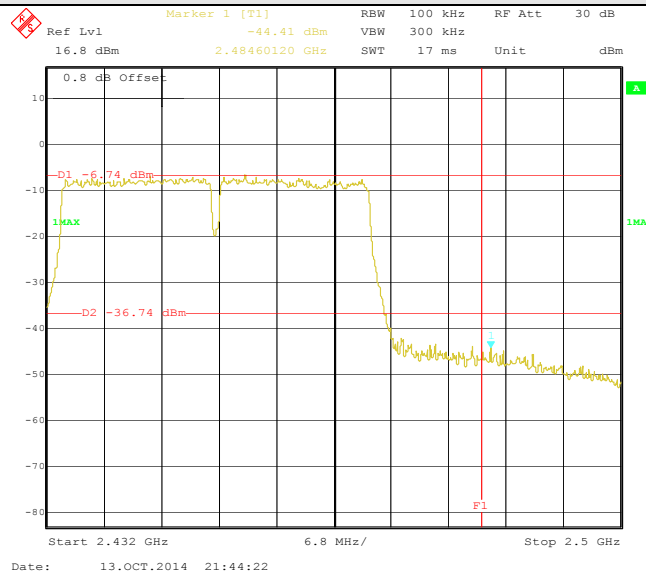


Highest channel

Test mode: 802.11n(H40)

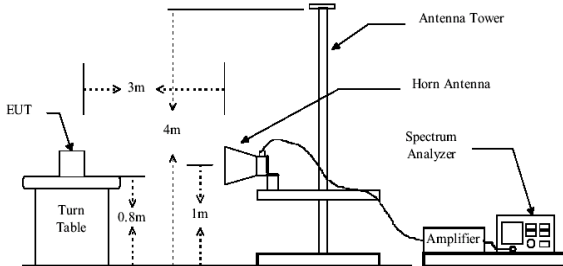


Lowest channel



Highest channel

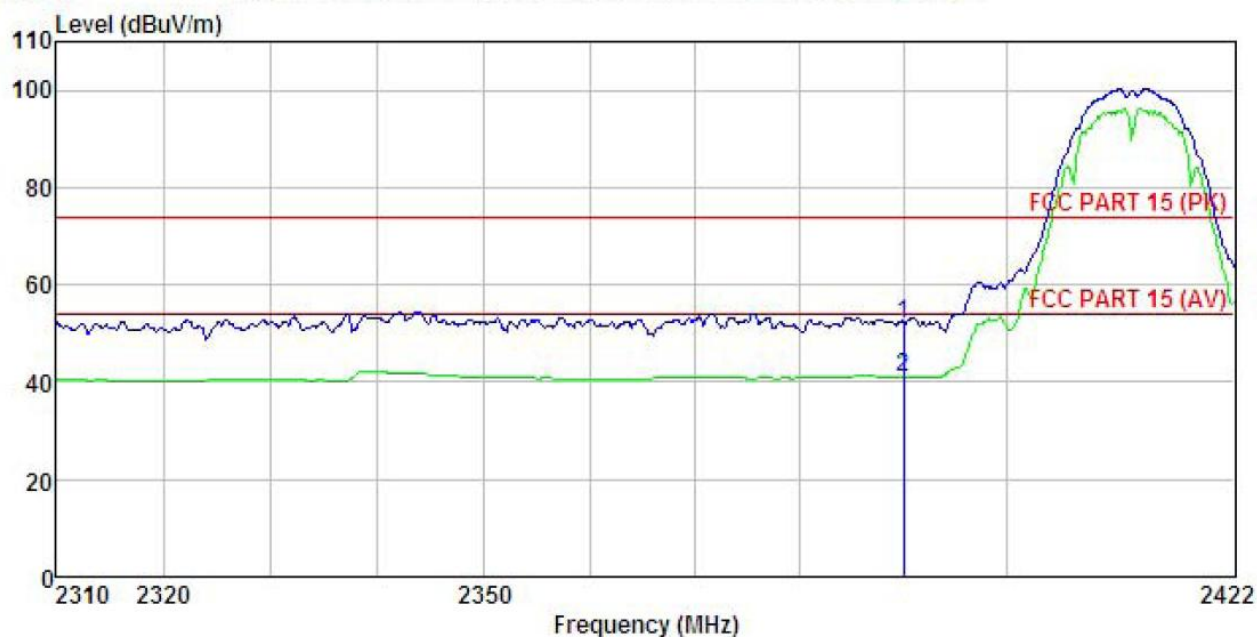
6.6.2 Radiated Emission Method

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---------------|------|---------------|--|-----------|--------------------|--------|------------|--------|---------------|-------|------------|------|------------|------|------|------|---------------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | | | | | | | | | | | | | |
| Test Method: | ANSI C63.4: 2003 | | | | | | | | | | | | | | | | | | |
| 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: | <ol style="list-style-type: none">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.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.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.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.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.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. | | | | | | | | | | | | | | | | | | |
| Test setup: |  | | | | | | | | | | | | | | | | | | |
| Test Instruments: | Refer to section 5.6 for details | | | | | | | | | | | | | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | | | | | | | | | | | | | |
| Test results: | Passed | | | | | | | | | | | | | | | | | | |

802.11b

Test channel: Lowest

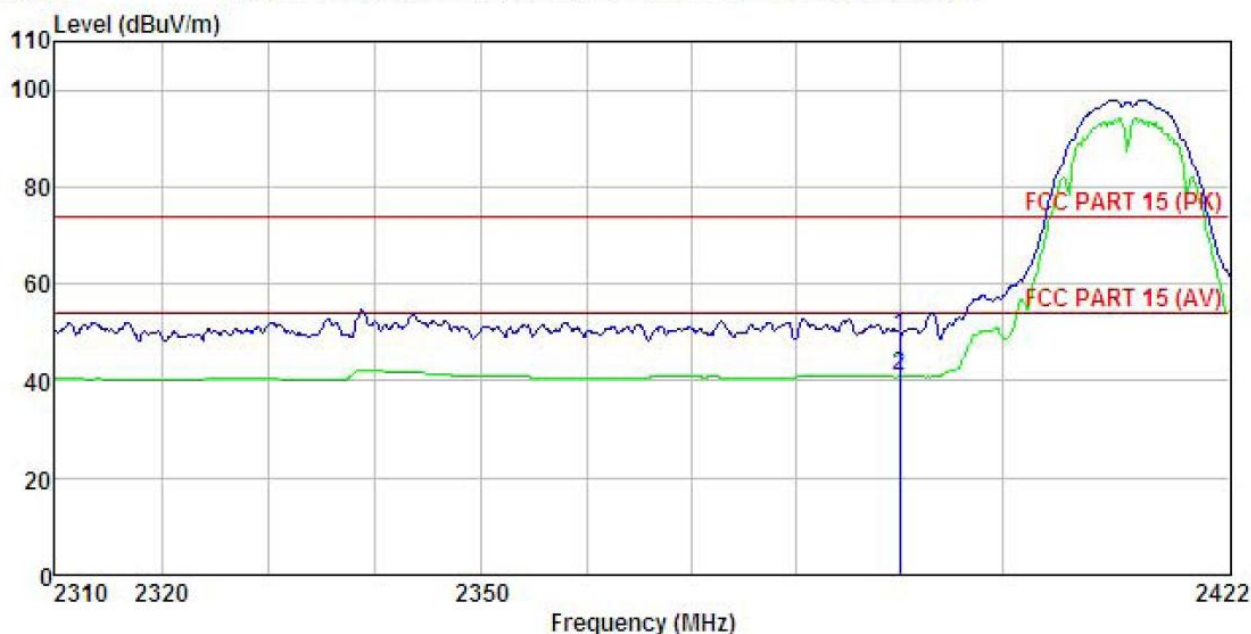
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Jobi NO. : 734RF
EUT : 3G Smart phone
Model : WINK
Test mode : Wifi-B-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 18.62 | 27.58 | 5.67 | 0.00 | 51.87 | 74.00 | -22.13 | Peak |
| 2 | 2390.000 | 7.73 | 27.58 | 5.67 | 0.00 | 40.98 | 54.00 | -13.02 | Average |

Vertical:

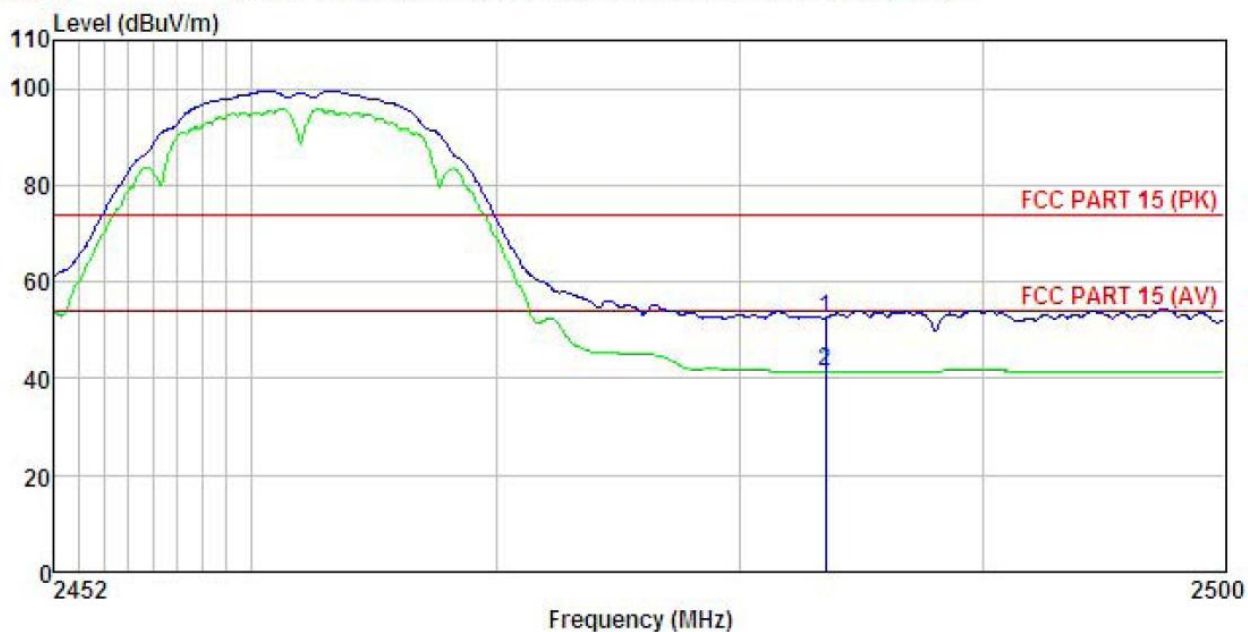


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-B-L mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Freq | ReadAntenna | Cable | Preampl | Level | Limit | Over | |
|---|----------|-------------|--------|---------|--------|--------|--------|----------------|
| | MHz | Level | Factor | Loss | Factor | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 | 16.06 | 27.58 | 5.67 | 0.00 | 49.31 | 74.00 | -24.69 Peak |
| 2 | 2390.000 | 7.58 | 27.58 | 5.67 | 0.00 | 40.83 | 54.00 | -13.17 Average |

Test channel: Highest

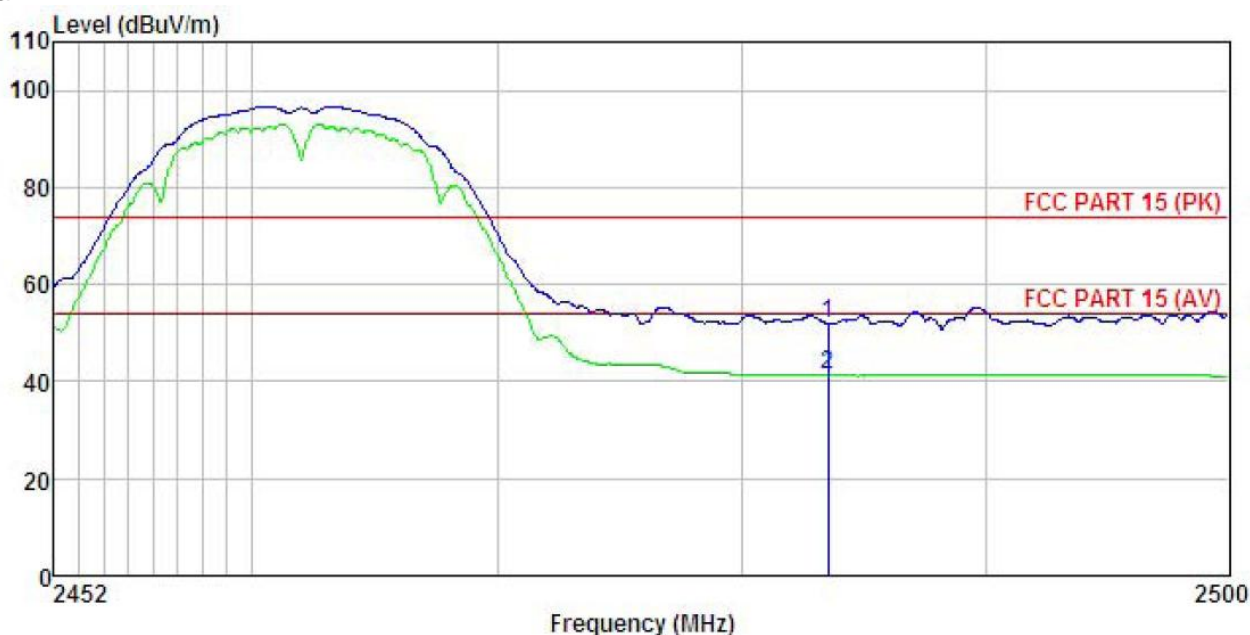
Horizontal:



```
Site      : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Jobi NO.  : 734RF
EUT       : 3G Smart phone
Model     : WINK
Test mode : Wifi-B-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin
```

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------|--------|------------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 19.24 | 27.52 | 5.70 | 0.00 | 52.46 | 74.00 | -21.54 | Peak |
| 2 | 2483.500 | 8.24 | 27.52 | 5.70 | 0.00 | 41.46 | 54.00 | -12.54 | Average |

Vertical:



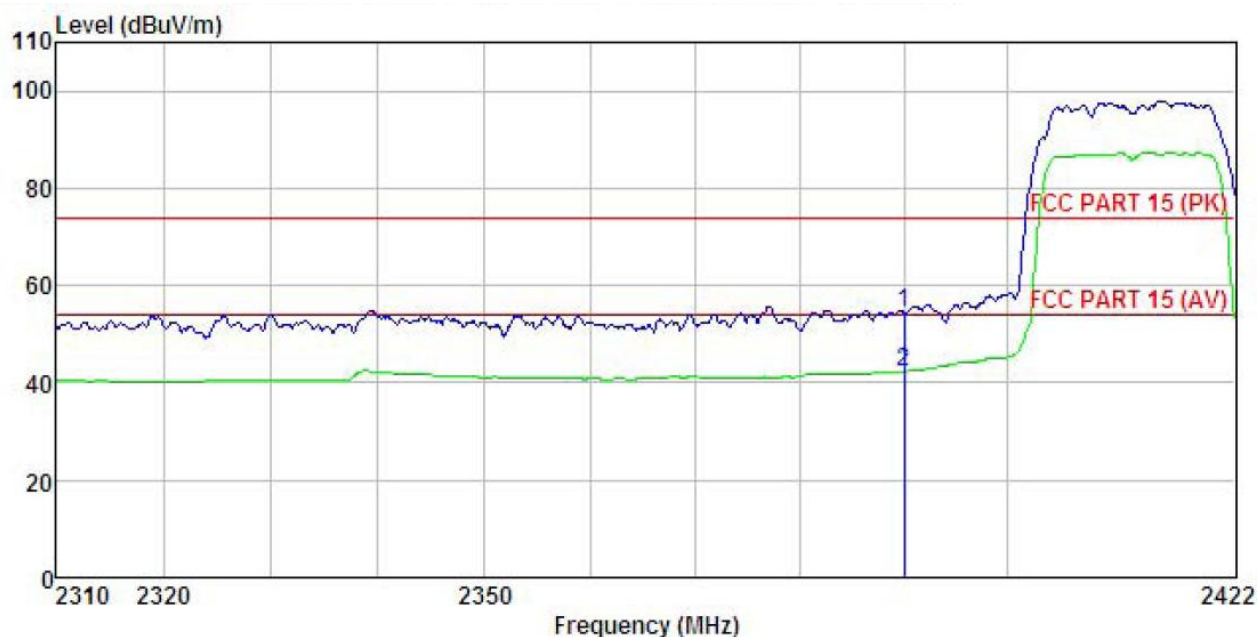
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-B-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamplifier | Level | Limit | Over Limit | Remark |
|---|----------|------------|----------------|------------|--------------|--------|--------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 18.76 | 27.52 | 5.70 | 0.00 | 51.98 | 74.00 | -22.02 | Peak |
| 2 | 2483.500 | 8.06 | 27.52 | 5.70 | 0.00 | 41.28 | 54.00 | -12.72 | Average |

802.11g

Test channel: Lowest

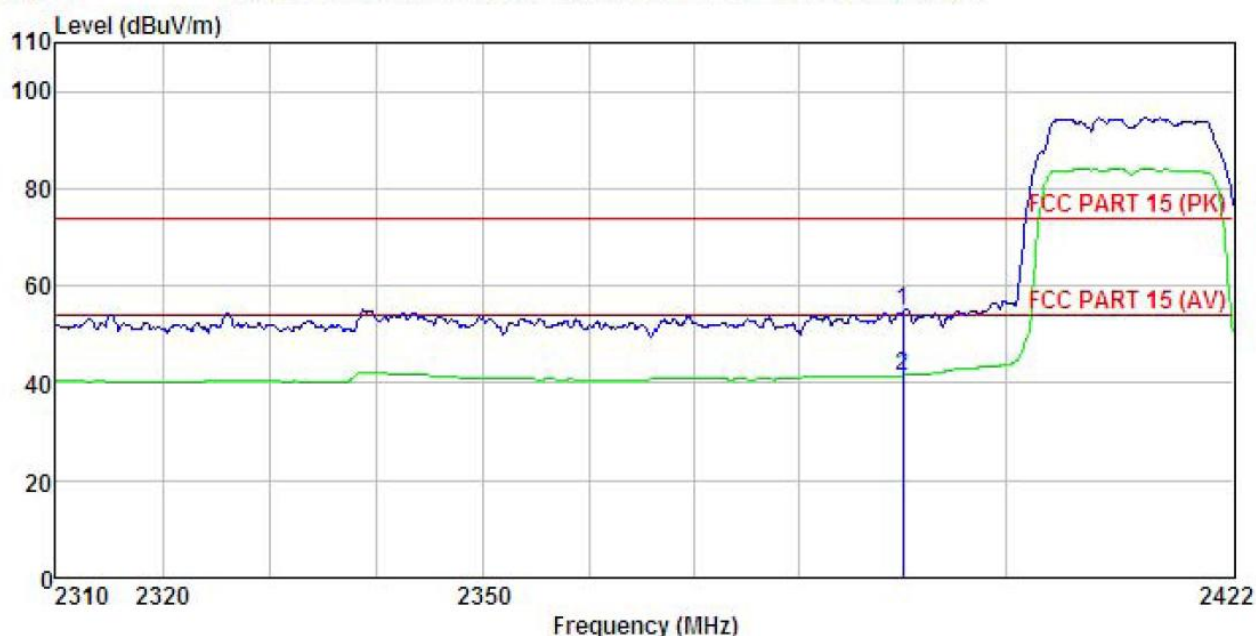
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Jobi NO. : 734RF
EUT : 3G Smart phone
Model : WINK
Test mode : Wifi-G-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin

| | Freq | ReadAntenna | | Cable Preamp | | Level | Limit | Over | Remark |
|---|----------|-------------|--------|--------------|--------|--------|--------|--------|---------|
| | | Level | Factor | Loss | Factor | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 21.04 | 27.58 | 5.67 | 0.00 | 54.29 | 74.00 | -19.71 | Peak |
| 2 | 2390.000 | 9.13 | 27.58 | 5.67 | 0.00 | 42.38 | 54.00 | -11.62 | Average |

Vertical:

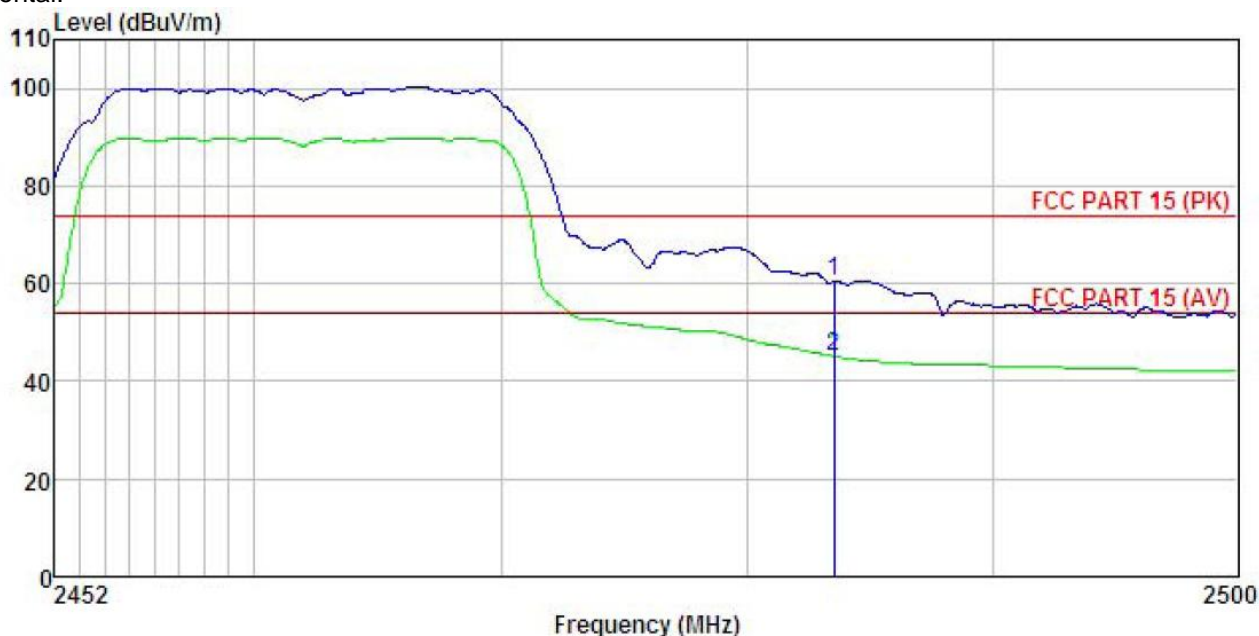


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
Jobi NO. : 734RF
EUT : 3G Smart phone
Model : WINK
Test mode : Wifi-G-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin

| | Freq | Read | Antenna | Cable | Preamp | Level | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|---------|
| | MHz | Level | Factor | Loss | Factor | dBuV/m | dBuV/m | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 21.51 | 27.58 | 5.67 | 0.00 | 54.76 | 74.00 | -19.24 | Peak |
| 2 | 2390.000 | 8.35 | 27.58 | 5.67 | 0.00 | 41.60 | 54.00 | -12.40 | Average |

Test channel: Highest

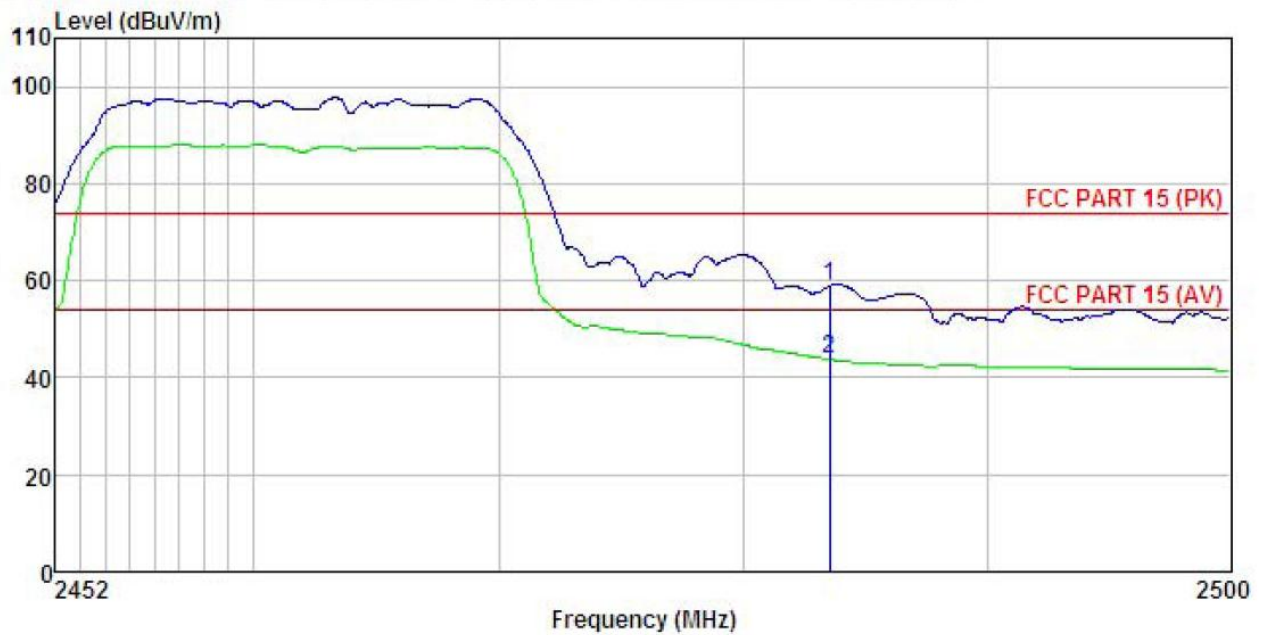
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-G-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Read | Antenna | Cable | Preamp | | Limit | Over | |
|-------|----------|---------|-------|--------|--------|--------|-------|---------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 27.20 | 27.52 | 5.70 | 0.00 | 60.42 | 74.00 | -13.58 Peak |
| 2 | 2483.500 | 11.91 | 27.52 | 5.70 | 0.00 | 45.13 | 54.00 | -8.87 Average |

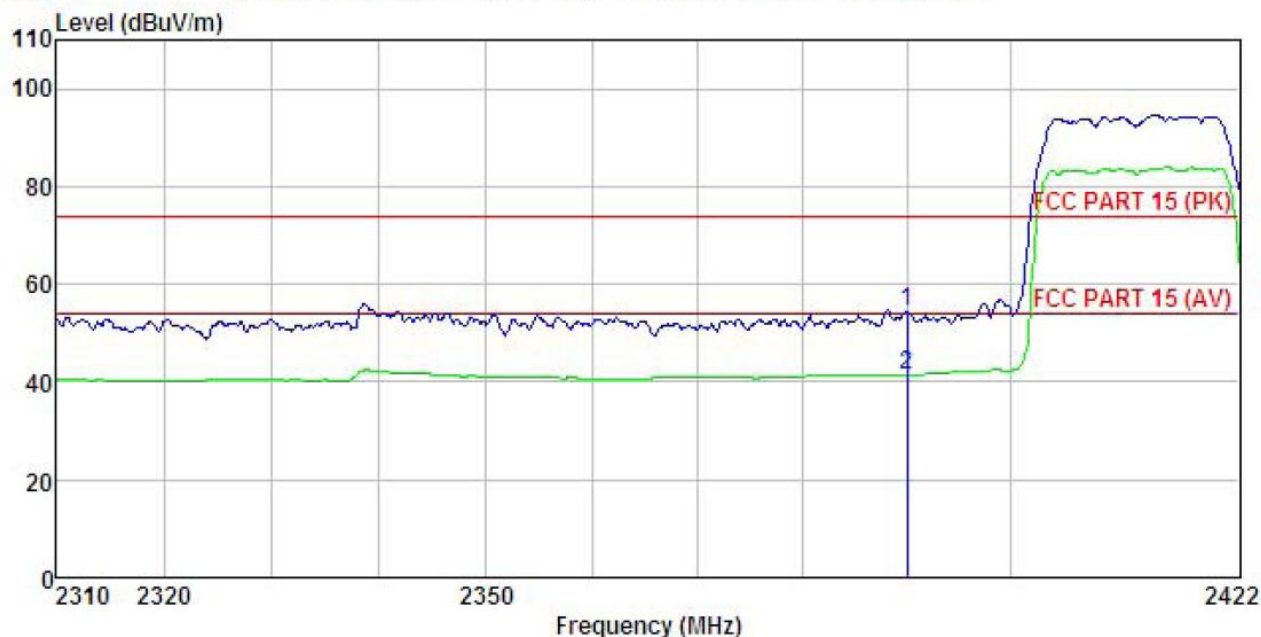
Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-G-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Read | Antenna | Cable | Preamp | | Limit | Over | |
|----------|-----------|-----------|---------|---------|--------|--------|---------|----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| -----MHz | -----dBuV | -----dB/m | -----dB | -----dB | dBuV/m | dBuV/m | -----dB | ----- |
| 1 | 2483.500 | 25.71 | 27.52 | 5.70 | 0.00 | 58.93 | 74.00 | -15.07 Peak |
| 2 | 2483.500 | 10.53 | 27.52 | 5.70 | 0.00 | 43.75 | 54.00 | -10.25 Average |

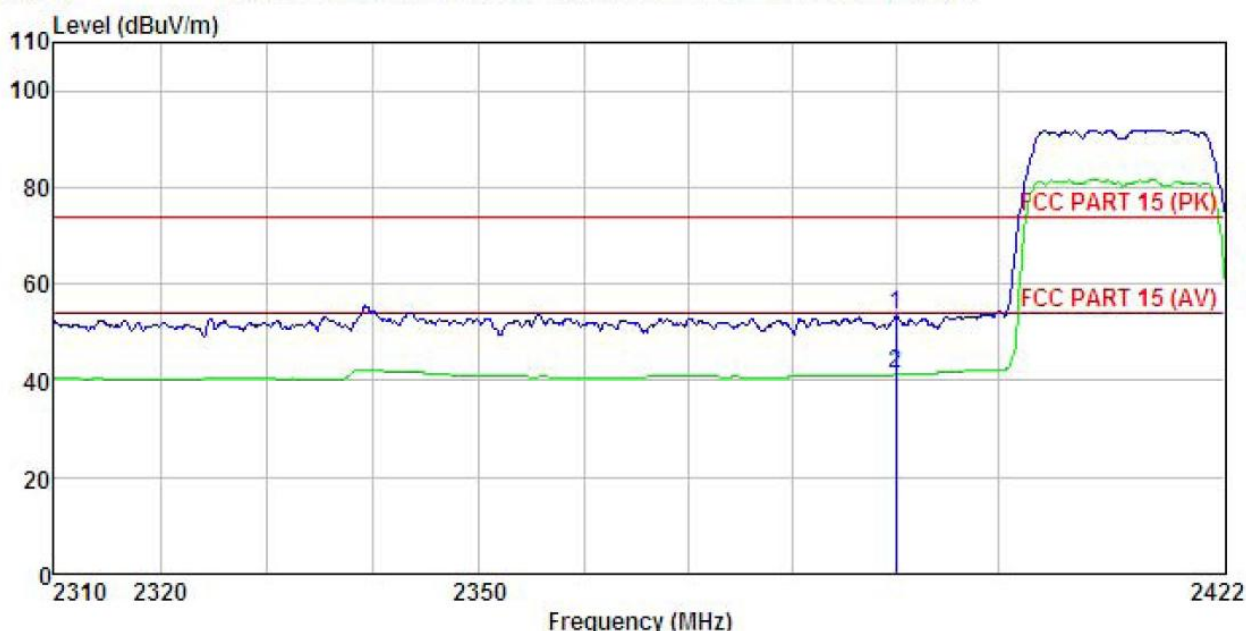
802.11n (H20)
Test channel: Lowest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Jobi NO. : 734RF
EUT : 3G Smart phone
Model : WINK
Test mode : Wifi-N20-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin

| | Freq | ReadAntenna | Cable | Preampl | | Limit | Over | |
|---|----------|-------------|--------|---------|--------|--------|--------|----------------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 | 21.04 | 27.58 | 5.67 | 0.00 | 54.29 | 74.00 | -19.71 Peak |
| 2 | 2390.000 | 8.28 | 27.58 | 5.67 | 0.00 | 41.53 | 54.00 | -12.47 Average |

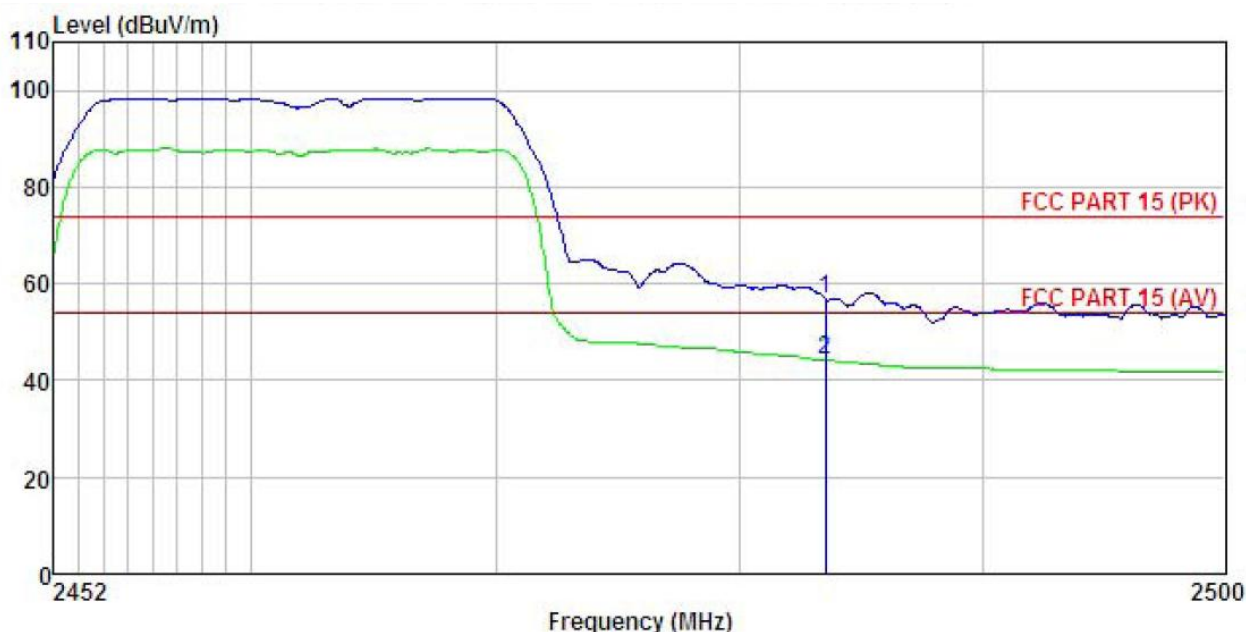
Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-N20-L mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Freq | ReadAntenna | Cable | Preamp | Level | Limit | Over | |
|---|----------|-------------|--------|--------|--------|--------|--------|----------------|
| | | Level | Factor | Loss | Factor | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 | 20.15 | 27.58 | 5.67 | 0.00 | 53.40 | 74.00 | -20.60 Peak |
| 2 | 2390.000 | 8.01 | 27.58 | 5.67 | 0.00 | 41.26 | 54.00 | -12.74 Average |

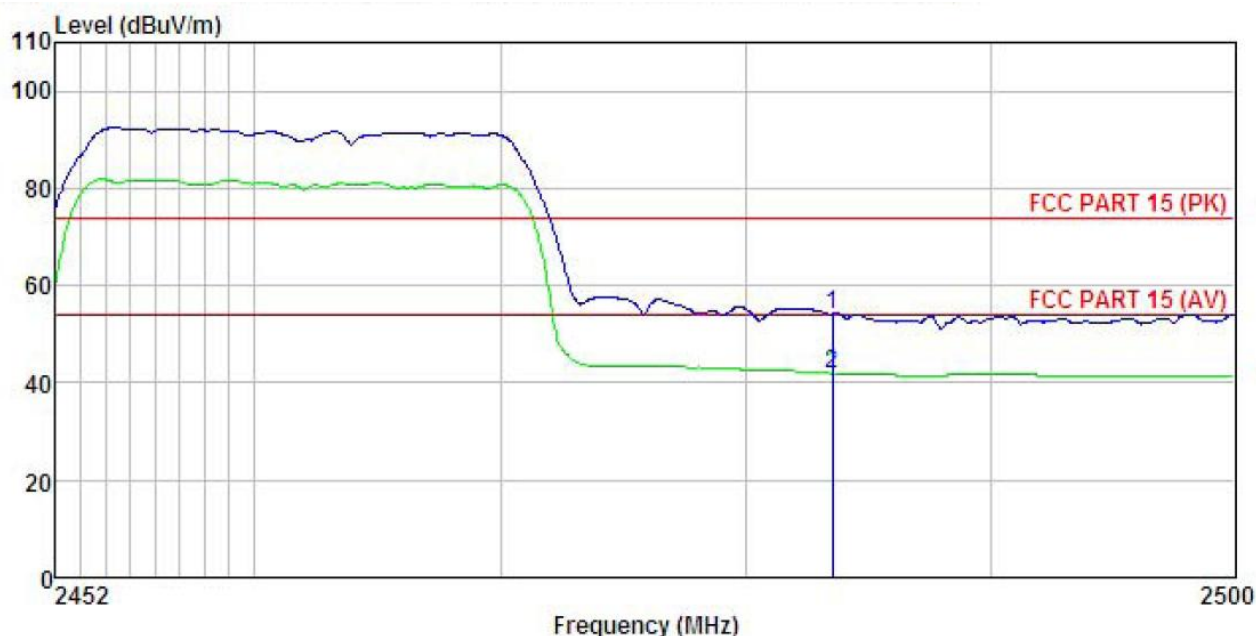
Test channel: Highest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Jobi NO. : 734RF
EUT : 3G Smart phone
Model : WINK
Test mode : Wifi-N20-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 23.51 | 27.52 | 5.70 | 0.00 | 56.73 | 74.00 | -17.27 | Peak |
| 2 | 2483.500 | 10.93 | 27.52 | 5.70 | 0.00 | 44.15 | 54.00 | -9.85 | Average |

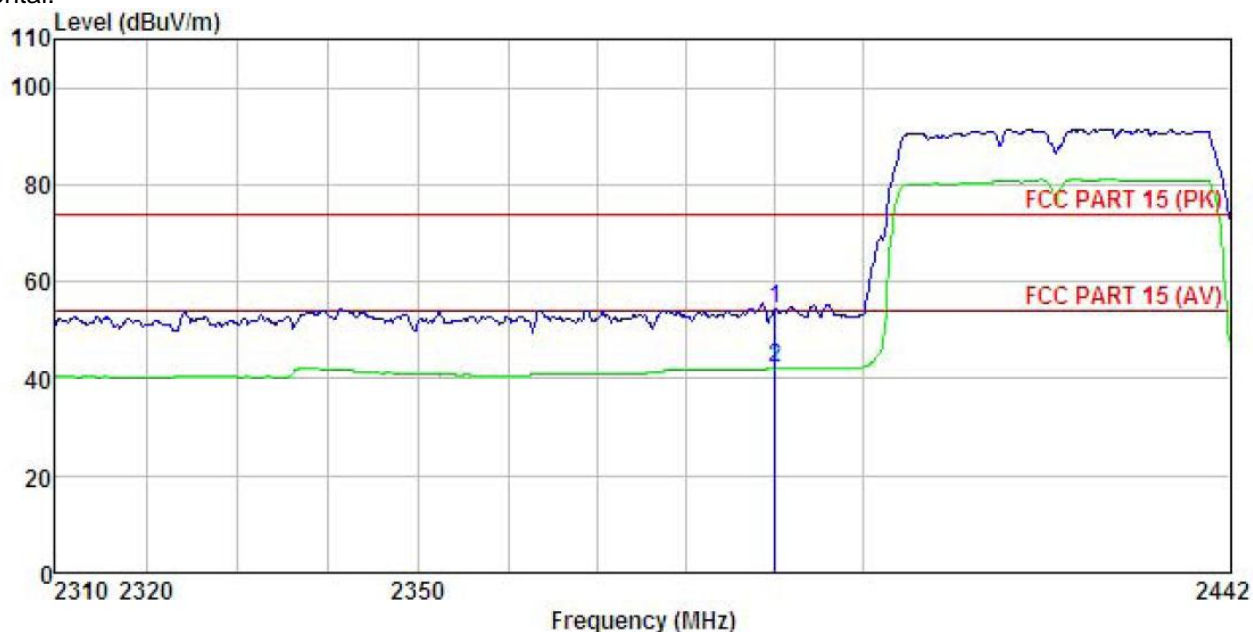
Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-N20-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 20.83 | 27.52 | 5.70 | 0.00 | 54.05 | 74.00 | -19.95 | Peak |
| 2 | 2483.500 | 8.75 | 27.52 | 5.70 | 0.00 | 41.97 | 54.00 | -12.03 | Average |

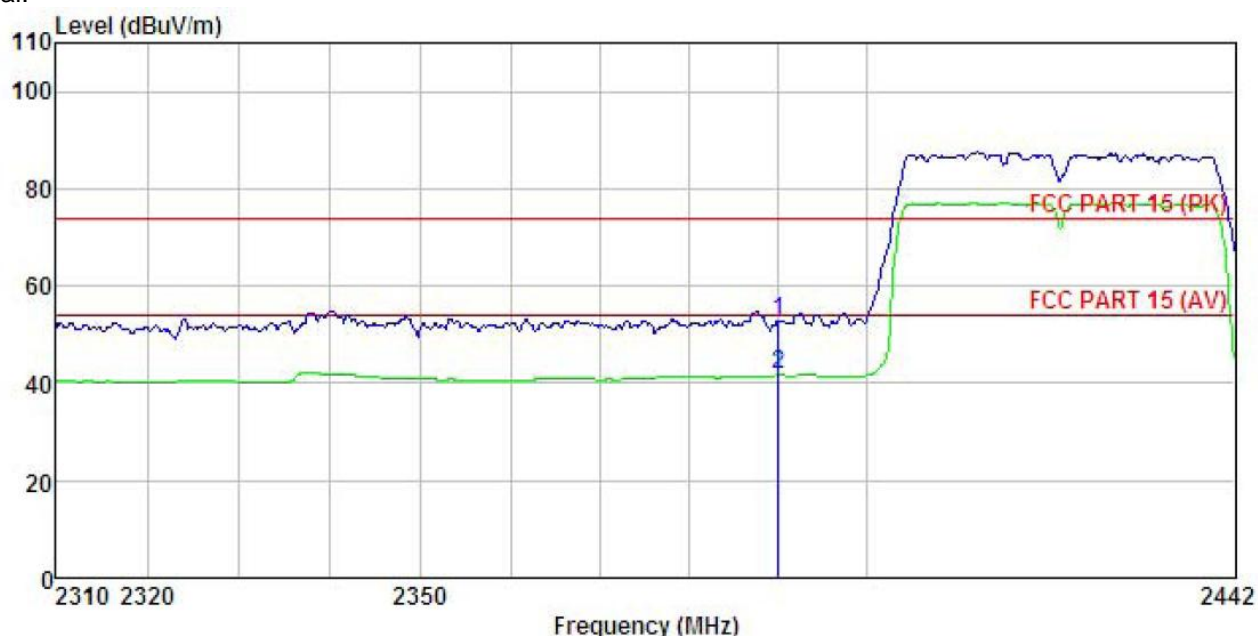
802.11n (H40)
Test channel: Lowest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Jobi NO. : 734RF
EUT : 3G Smart phone
Model : WINK
Test mode : Wifi-N40-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over Limit | Remark |
|---|----------|------------|----------------|------------|---------------|--------|--------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 21.28 | 27.58 | 5.67 | 0.00 | 54.53 | 74.00 | -19.47 | Peak |
| 2 | 2390.000 | 9.03 | 27.58 | 5.67 | 0.00 | 42.28 | 54.00 | -11.72 | Average |

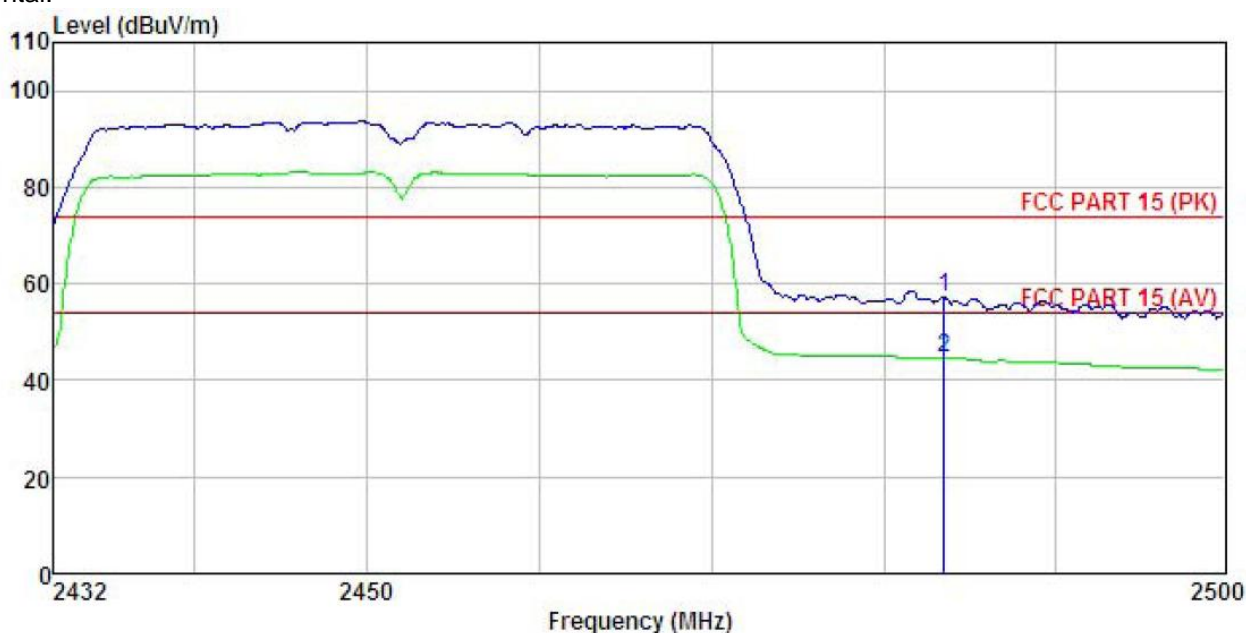
Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-N40-L mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Read | Antenna | Cable | Preamp | | Limit | Over | |
|------------|-----------|-----------|---------|---------|--------|--------|---------|---------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| -----MHz | -----dBuV | -----dB/m | -----dB | -----dB | dBuV/m | dBuV/m | -----dB | ----- |
| 1 2390.000 | 19.48 | 27.58 | 5.67 | 0.00 | 52.73 | 74.00 | -21.27 | Peak |
| 2 2390.000 | 8.40 | 27.58 | 5.67 | 0.00 | 41.65 | 54.00 | -12.35 | Average |

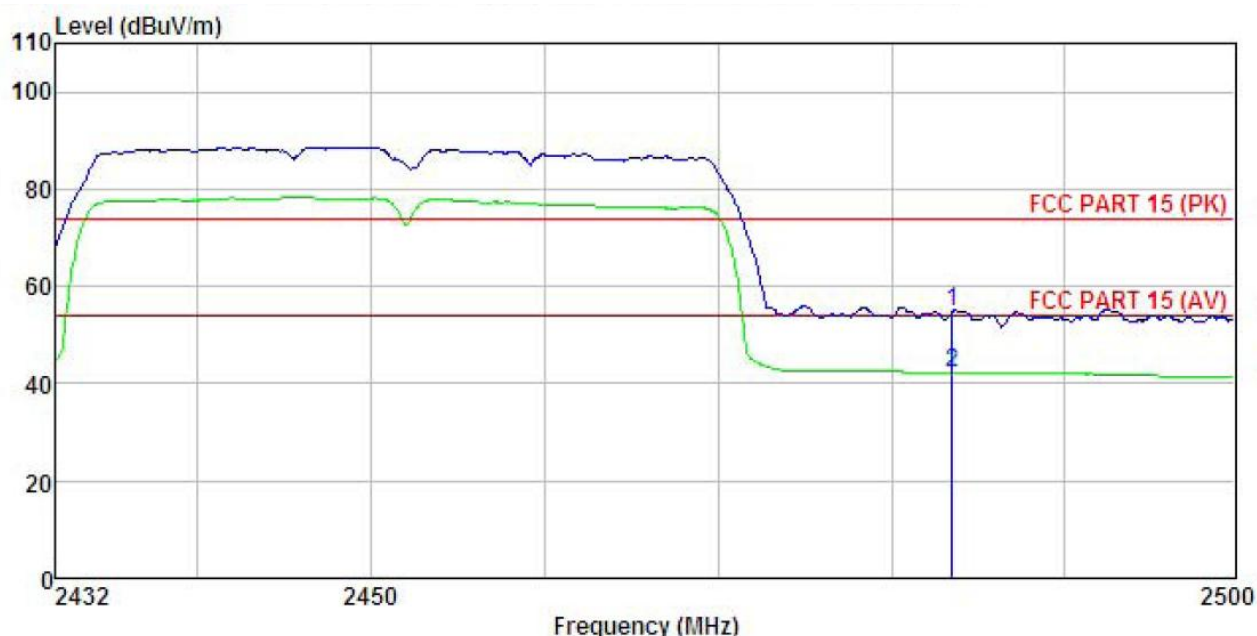
Test channel: Highest
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Jobi NO. : 734RF
EUT : 3G Smart phone
Model : WINK
Test mode : Wifi-N40-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Colin

| | Freq | ReadAntenna | Cable | Preamp | | Limit | Over | |
|---|----------|-------------|--------|--------|--------|--------|--------|---------------|
| | | Level | Factor | Loss | Factor | Level | Line | Limit |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2483.500 | 23.95 | 27.52 | 5.70 | 0.00 | 57.17 | 74.00 | -16.83 Peak |
| 2 | 2483.500 | 11.60 | 27.52 | 5.70 | 0.00 | 44.82 | 54.00 | -9.18 Average |

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi-N40-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

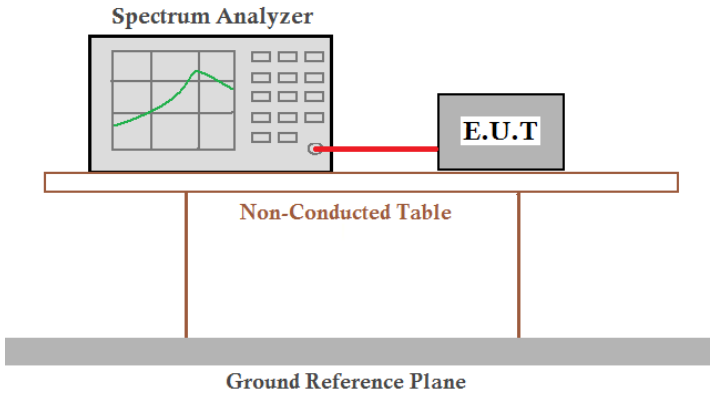
| | Read | Antenna | Cable | Preamp | | Limit | Over | |
|-------|----------|---------|-------|--------|--------|--------|-------|----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 21.48 | 27.52 | 5.70 | 0.00 | 54.70 | 74.00 | -19.30 Peak |
| 2 | 2483.500 | 9.12 | 27.52 | 5.70 | 0.00 | 42.34 | 54.00 | -11.66 Average |

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.

6.7 Spurious Emission

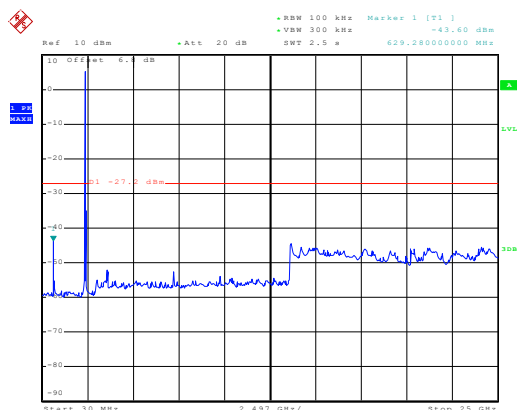
6.7.1 Conducted Emission Method

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.4:2003 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: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.6 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Test plot as follows:

Test mode: 802.11b

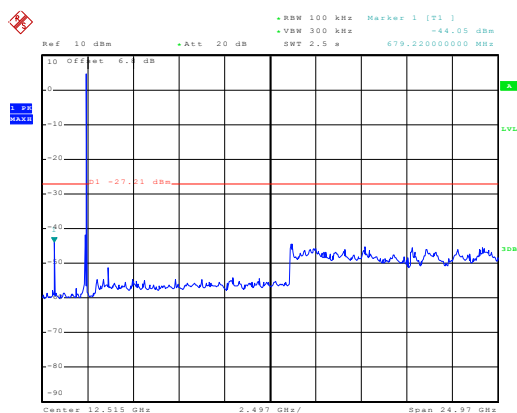
Lowest channel



Date: 3.NOV.2014 18:14:54

30MHz~25GHz

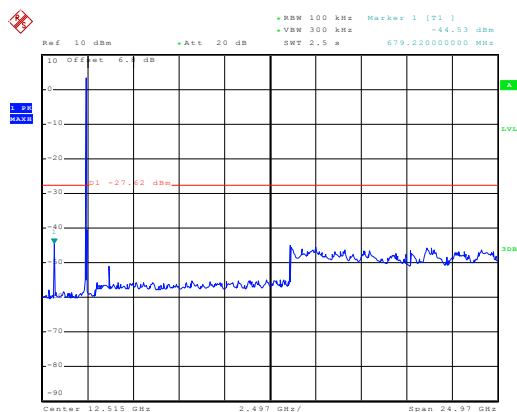
Middle channel



Date: 3.NOV.2014 18:15:58

30MHz~25GHz

Highest channel

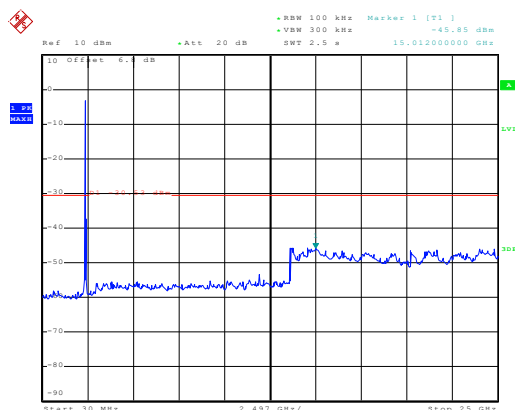


Date: 3.NOV.2014 18:16:56

30MHz~25GHz

Test mode: 802.11g

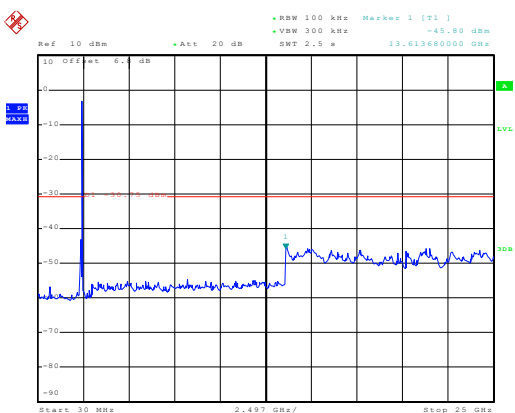
Lowest channel



Date: 13.OCT.2014 22:36:49

30MHz~25GHz

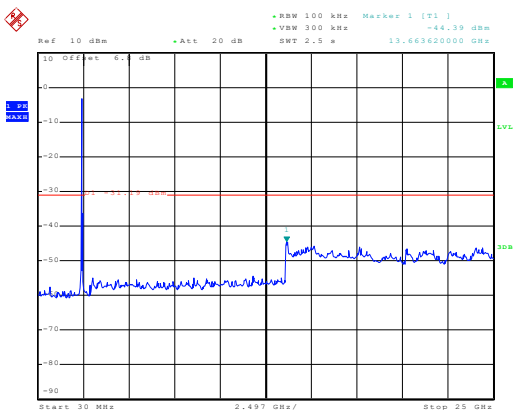
Middle channel



Date: 13.OCT.2014 22:37:35

30MHz~25GHz

Highest channel

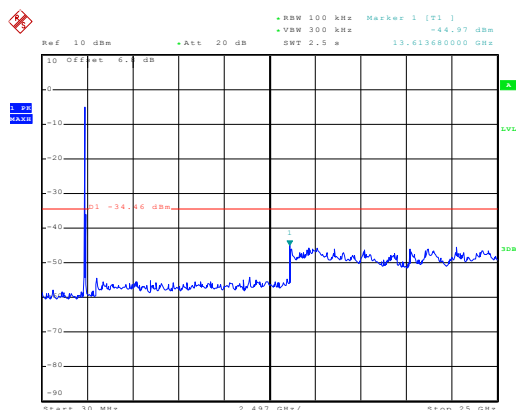


Date: 13.OCT.2014 22:38:20

30MHz~25GHz

Test mode: 802.11n(H20)

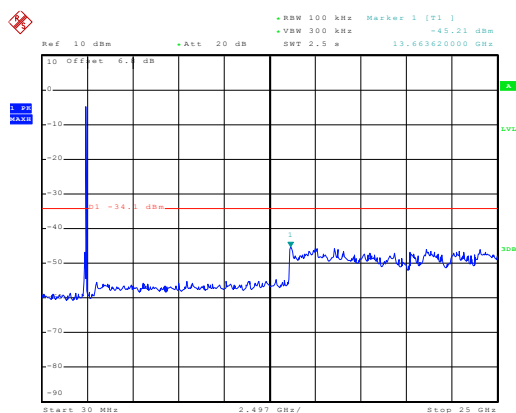
Lowest channel



Date: 13.OCT.2014 22:32:10

30MHz~25GHz

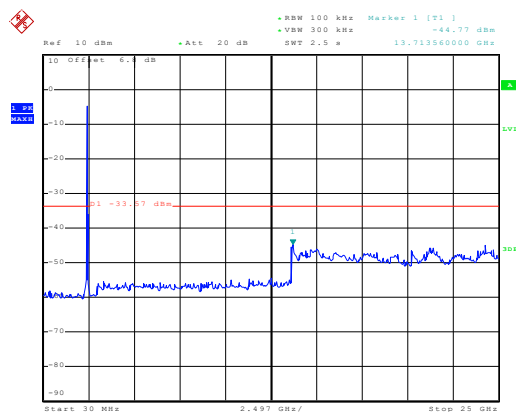
Middle channel



Date: 13.OCT.2014 22:32:47

30MHz~25GHz

Highest channel

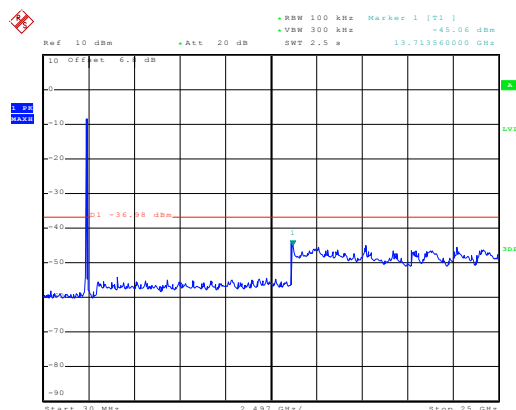


Date: 13.OCT.2014 22:33:23

30MHz~25GHz

Test mode: 802.11n(H40)

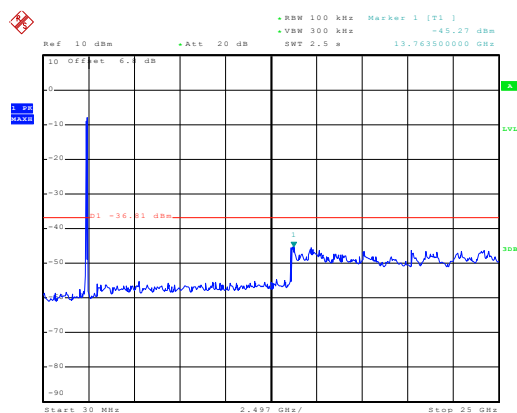
Lowest channel



Date: 13.OCT.2014 22:34:18

30MHz~25GHz

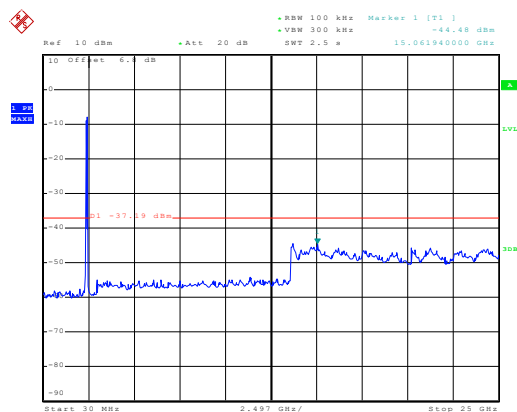
Middle channel



Date: 13.OCT.2014 22:34:57

30MHz~25GHz

Highest channel

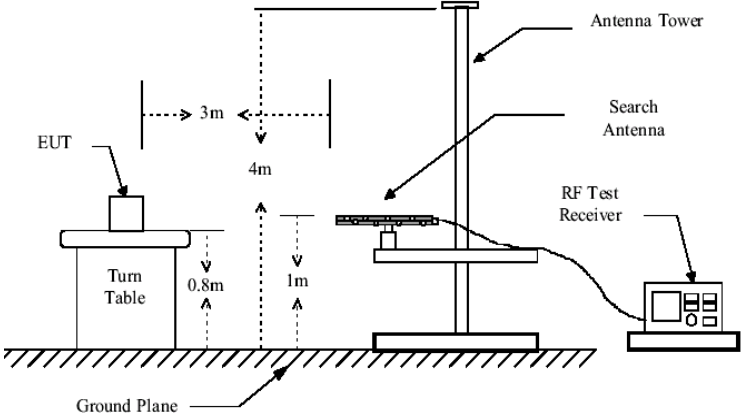
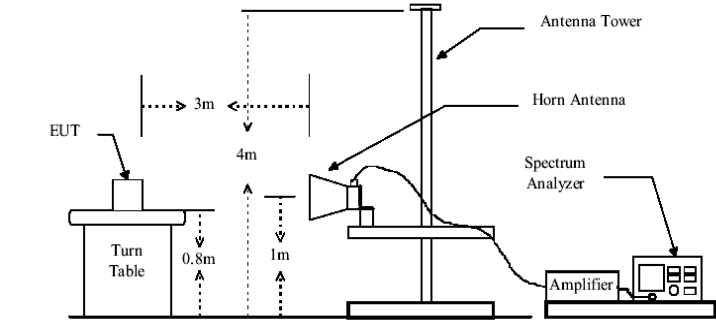


Date: 13.OCT.2014 22:35:43

30MHz~25GHz

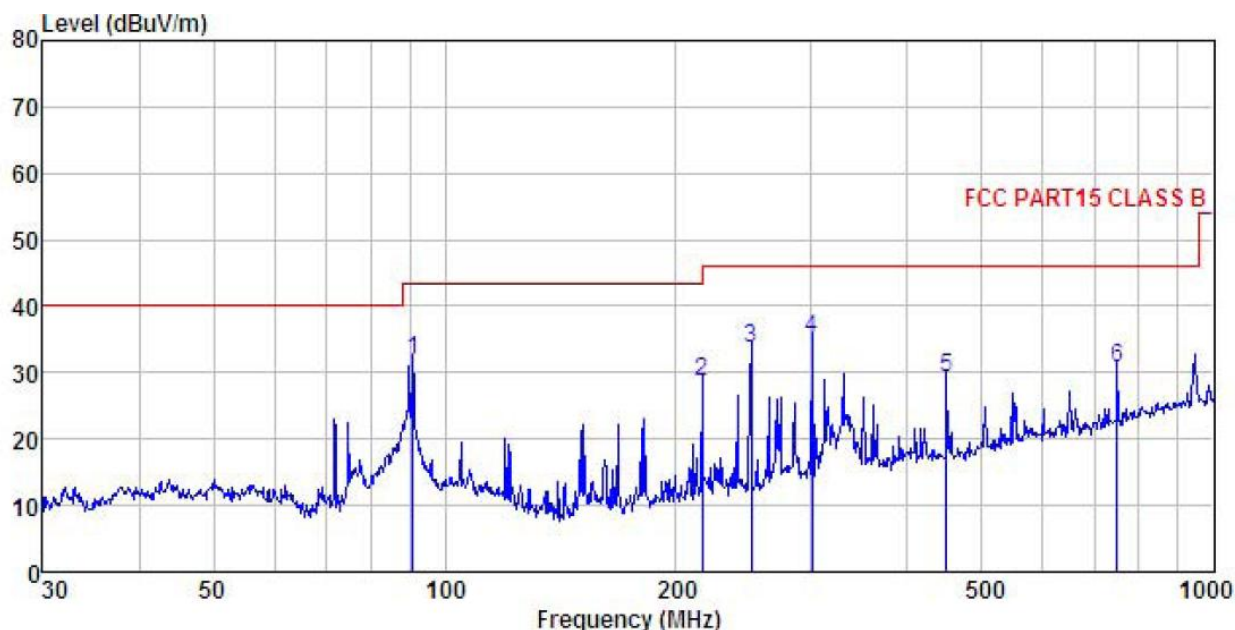
6.7.2 Radiated Emission Method

| | | | | | |
|-----------------------|--|------------|--------------------|---------------|------------------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.4:2003 | | | | |
| Test Frequency Range: | 9KHz 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 |
| Peak | | 1MHz | 10Hz | Average Value | |
| Limit: | | | | | |
| | Frequency | | Limit (dBuV/m @3m) | | Remark |
| | 30MHz-88MHz | | 40.0 | | Quasi-peak Value |
| | 88MHz-216MHz | | 43.5 | | Quasi-peak Value |
| | 216MHz-960MHz | | 46.0 | | Quasi-peak Value |
| | 960MHz-1GHz | | 54.0 | | Quasi-peak Value |
| | Above 1GHz | 54.0 | | Average Value | |
| 74.0 | | 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 5.6 for details</p> |
| <p>Test mode:</p> | <p>Refer to section 5.3 for details</p> |
| <p>Test results:</p> | <p>Passed</p> |
| <p>Remark:</p> | <ol style="list-style-type: none"> 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report. |

Below 1GHz

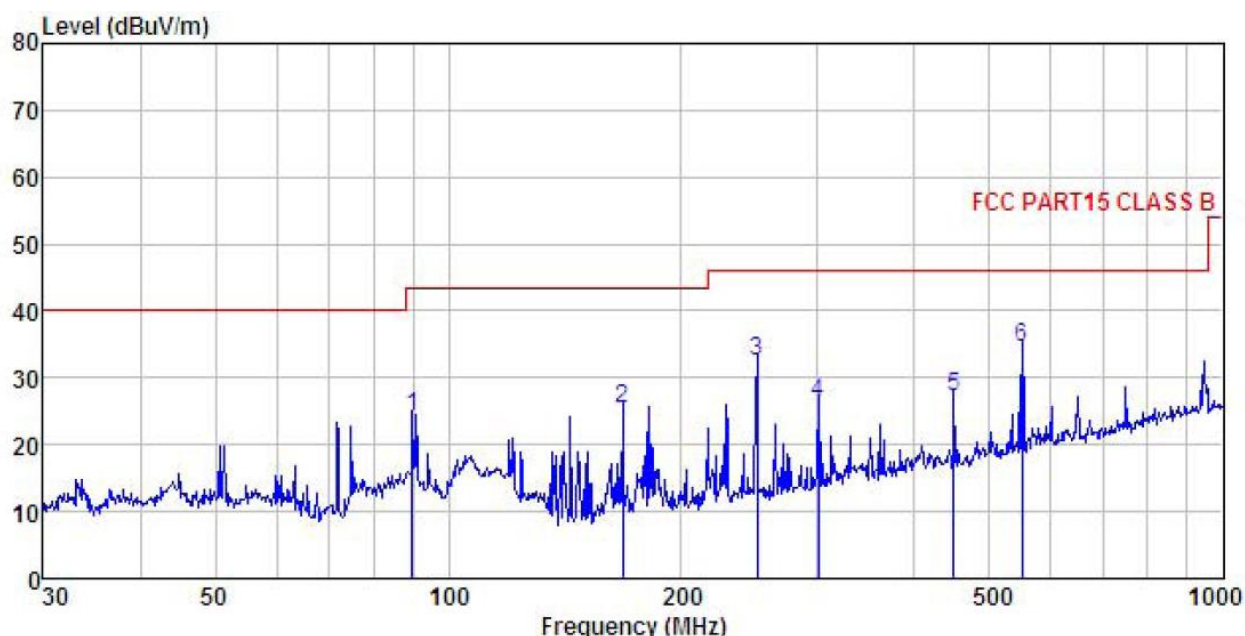
Horizontal :



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Read | Antenna | Cable | Preamp | | Limit | Over | |
|-------|---------|---------|-------|--------|--------|--------|-------|-----------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 90.855 | 48.44 | 12.07 | 0.91 | 29.57 | 31.85 | 43.50 | -11.65 QP |
| 2 | 216.024 | 44.90 | 11.07 | 1.46 | 28.73 | 28.70 | 46.00 | -17.30 QP |
| 3 | 250.301 | 48.55 | 12.07 | 1.62 | 28.54 | 33.70 | 46.00 | -12.30 QP |
| 4 | 300.367 | 48.72 | 13.06 | 1.77 | 28.45 | 35.10 | 46.00 | -10.90 QP |
| 5 | 449.556 | 40.13 | 15.57 | 2.25 | 28.87 | 29.08 | 46.00 | -16.92 QP |
| 6 | 750.108 | 36.63 | 19.43 | 3.04 | 28.48 | 30.62 | 46.00 | -15.38 QP |

Vertical :



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
 Jobi NO. : 734RF
 EUT : 3G Smart phone
 Model : WINK
 Test mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Colin

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamplifier | Level | Limit | Over | Remark |
|---|---------|------------|----------------|------------|--------------|--------|--------|--------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 89.905 | 40.87 | 11.90 | 0.91 | 29.57 | 24.11 | 43.50 | -19.39 | QP |
| 2 | 167.824 | 44.08 | 8.90 | 1.34 | 29.07 | 25.25 | 43.50 | -18.25 | QP |
| 3 | 250.301 | 47.29 | 12.07 | 1.62 | 28.54 | 32.44 | 46.00 | -13.56 | QP |
| 4 | 300.367 | 39.98 | 13.06 | 1.77 | 28.45 | 26.36 | 46.00 | -19.64 | QP |
| 5 | 449.556 | 38.12 | 15.57 | 2.25 | 28.87 | 27.07 | 46.00 | -18.93 | QP |
| 6 | 550.948 | 43.42 | 17.57 | 2.54 | 29.10 | 34.43 | 46.00 | -11.57 | QP |

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) | Polar. |
| 4824.00 | 48.76 | 31.53 | 8.90 | 40.24 | 48.95 | 74.00 | -25.05 | Vertical |
| 4824.00 | 46.93 | 31.53 | 8.90 | 40.24 | 47.12 | 74.00 | -26.88 | 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) | Polar. |
| 4824.00 | 28.53 | 31.53 | 8.90 | 40.24 | 28.72 | 54.00 | -25.28 | Vertical |
| 4824.00 | 36.29 | 31.53 | 8.90 | 40.24 | 36.48 | 54.00 | -17.52 | Horizontal |

| 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) | Polar. |
| 4874.00 | 46.69 | 31.58 | 8.98 | 40.15 | 47.10 | 74.00 | -26.90 | Vertical |
| 4874.00 | 49.16 | 31.58 | 8.98 | 40.15 | 49.57 | 74.00 | -24.43 | 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) | Polar. |
| 4874.00 | 29.07 | 31.58 | 8.98 | 40.15 | 29.48 | 54.00 | -24.52 | Vertical |
| 4874.00 | 30.15 | 31.58 | 8.98 | 40.15 | 30.56 | 54.00 | -23.44 | 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) | Polar. |
| 4924.00 | 48.58 | 31.69 | 9.08 | 40.03 | 49.32 | 74.00 | -24.68 | Vertical |
| 4924.00 | 47.28 | 31.69 | 9.08 | 40.03 | 48.02 | 74.00 | -25.98 | 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) | Polar. |
| 4924.00 | 28.70 | 31.69 | 9.08 | 40.03 | 29.44 | 54.00 | -24.56 | Vertical |
| 4924.00 | 28.74 | 31.69 | 9.08 | 40.03 | 29.48 | 54.00 | -24.52 | 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.

| Test mode: 802.11g | | | Test channel: Lowest | | | Remark: Peak | | |
|--------------------|-------------------|-----------------------|----------------------|--------------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4824.00 | 46.37 | 31.53 | 8.90 | 40.24 | 46.56 | 74.00 | -27.44 | Vertical |
| 4824.00 | 45.77 | 31.53 | 8.90 | 40.24 | 45.96 | 74.00 | -28.04 | Horizontal |
| Test mode: 802.11g | | | Test channel: Lowest | | | Remark: Average | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4824.00 | 27.35 | 31.53 | 8.90 | 40.24 | 27.54 | 54.00 | -26.46 | Vertical |
| 4824.00 | 26.66 | 31.53 | 8.90 | 40.24 | 26.85 | 54.00 | -27.15 | Horizontal |

| Test mode: 802.11g | | | Test channel: Middle | | | Remark: Peak | | |
|--------------------|-------------------|-----------------------|----------------------|--------------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4874.00 | 46.18 | 31.58 | 8.98 | 40.15 | 46.59 | 74.00 | -27.41 | Vertical |
| 4874.00 | 46.64 | 31.58 | 8.98 | 40.15 | 47.05 | 74.00 | -26.95 | Horizontal |
| Test mode: 802.11g | | | Test channel: Middle | | | Remark: Average | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4874.00 | 27.73 | 31.58 | 8.98 | 40.15 | 28.14 | 54.00 | -25.86 | Vertical |
| 4874.00 | 27.32 | 31.58 | 8.98 | 40.15 | 27.73 | 54.00 | -26.27 | Horizontal |

| Test mode: 802.11g | | | Test channel: Highest | | | Remark: Peak | | |
|--------------------|-------------------|-----------------------|-----------------------|--------------------------|----------------|---------------------|-----------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4924.00 | 46.88 | 31.69 | 9.08 | 40.03 | 47.62 | 74.00 | -26.38 | Vertical |
| 4924.00 | 46.63 | 31.69 | 9.08 | 40.03 | 47.37 | 74.00 | -26.63 | Horizontal |
| Test mode: 802.11g | | | Test channel: Highest | | | Remark: Average | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4924.00 | 26.32 | 31.69 | 9.08 | 40.03 | 27.06 | 54.00 | -26.94 | Vertical |
| 4924.00 | 26.67 | 31.69 | 9.08 | 40.03 | 27.41 | 54.00 | -26.59 | 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.

| 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) | Polar. |
| 4824.00 | 46.37 | 31.53 | 8.90 | 40.24 | 46.56 | 74.00 | -27.44 | Vertical |
| 4824.00 | 46.04 | 31.53 | 8.90 | 40.24 | 46.23 | 74.00 | -27.77 | 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) | Polar. |
| 4824.00 | 28.35 | 31.53 | 8.90 | 40.24 | 28.54 | 54.00 | -25.46 | Vertical |
| 4824.00 | 26.42 | 31.53 | 8.90 | 40.24 | 26.61 | 54.00 | -27.39 | Horizontal |

| 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) | Polar. |
| 4874.00 | 46.60 | 31.58 | 8.98 | 40.15 | 47.01 | 74.00 | -26.99 | Vertical |
| 4874.00 | 46.00 | 31.58 | 8.98 | 40.15 | 46.41 | 74.00 | -27.59 | 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) | Polar. |
| 4874.00 | 26.20 | 31.58 | 8.98 | 40.15 | 26.61 | 54.00 | -27.39 | Vertical |
| 4874.00 | 25.17 | 31.58 | 8.98 | 40.15 | 25.58 | 54.00 | -28.42 | 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) | Polar. |
| 4924.00 | 46.80 | 31.69 | 9.08 | 40.03 | 47.54 | 74.00 | -26.46 | Vertical |
| 4924.00 | 46.88 | 31.69 | 9.08 | 40.03 | 47.62 | 74.00 | -26.38 | 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) | Polar. |
| 4924.00 | 26.11 | 31.69 | 9.08 | 40.03 | 26.85 | 54.00 | -27.15 | Vertical |
| 4924.00 | 26.80 | 31.69 | 9.08 | 40.03 | 27.54 | 54.00 | -26.46 | 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.

| 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) | Polar. |
| 4844.00 | 46.74 | 31.53 | 8.90 | 40.24 | 46.93 | 74.00 | -27.07 | Vertical |
| 4844.00 | 47.12 | 31.53 | 8.90 | 40.24 | 47.31 | 74.00 | -26.69 | 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) | Polar. |
| 4844.00 | 26.88 | 31.53 | 8.90 | 40.24 | 27.07 | 54.00 | -26.93 | Vertical |
| 4844.00 | 27.80 | 31.53 | 8.90 | 40.24 | 27.99 | 54.00 | -26.01 | Horizontal |

| 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) | Polar. |
| 4874.00 | 45.06 | 31.58 | 8.98 | 40.15 | 45.47 | 74.00 | -28.53 | Vertical |
| 4874.00 | 46.59 | 31.58 | 8.98 | 40.15 | 47.00 | 74.00 | -27.00 | 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) | Polar. |
| 4874.00 | 25.12 | 31.58 | 8.98 | 40.15 | 25.53 | 54.00 | -28.47 | Vertical |
| 4874.00 | 26.73 | 31.58 | 8.98 | 40.15 | 27.14 | 54.00 | -26.86 | 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) | Polar. |
| 4904.00 | 47.58 | 31.69 | 9.08 | 40.03 | 48.32 | 74.00 | -25.68 | Vertical |
| 4904.00 | 47.06 | 31.69 | 9.08 | 40.03 | 47.80 | 74.00 | -26.20 | 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) | Polar. |
| 4904.00 | 30.28 | 31.69 | 9.08 | 40.03 | 31.02 | 54.00 | -22.98 | Vertical |
| 4904.00 | 27.33 | 31.69 | 9.08 | 40.03 | 28.07 | 54.00 | -25.93 | Horizontal |

Remark:

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