# Test Report

| | |
|---|---|
| **Applicant:** | Shenzhen aishen yingtong information technology Co., Ltd |
| **Address of Applicant:** | 1001, 10th floor, building G3, TCL international E city, xili street, nanshan district, Shenzhen, China |
| **Manufacturer:** | Shenzhen aishen yingtong information technology Co., Ltd |
| **Address of Manufacturer:** | 1001, 10th floor, building G3, TCL international E city, xili street, nanshan district, Shenzhen, China |

**Equipment Under Test (EUT)**

| | |
|---|---|
| Product Name: | AI Fever Screening System |
| Model No.: | AWS-60-E12 |
| **FCC ID:** | 2AV3M-AWS60E12 |
| **Applicable standards:** | FCC CFR Title 47 Part 15 Subpart C Section 15.247 |
| **Date of sample receipt:** | April 10, 2020 |
| **Date of Test:** | April 11-16, 2020 |
| **Date of report issued:** | April 17, 2020 |
| **Test Result :** | PASS * |

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

Authorized Signature:

**Robinson Lo**
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

# 2 Version

| Version No. | Date | Description |
|---|---|---|
| *00* | *April 17, 2020* | *Original* |
| | | |
| | | |
| | | |
| | | |

| | | | |
|---|---|---|---|
| ***Prepared By:*** | ***Project Engineer*** | ***Date:*** | *April 17, 2020* |
| ***Check By:*** | ***Reviewer*** | ***Date:*** | *April 17, 2020* |

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# 4 Test Summary

| Test Item | Section | Result |
|---|---|---|
| Antenna requirement | FCC part 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | FCC part 15.207 | Pass |
| Conducted Peak Output Power | FCC part 15.247 (b)(3) | Pass |
| Channel Bandwidth & 99% OCB | FCC part 15.247 (a)(2) | Pass |
| Power Spectral Density | FCC part 15.247 (e) | Pass |
| Band Edge | FCC part 15.247(d) | Pass |
| Spurious Emission | FCC part 15.205/15.209 | Pass |

*Remark: Test according to ANSI C63.10:2013*

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

**Measurement Uncertainty**

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|---|---|---|---|
| Radiated Emission | 30MHz-200MHz | 3.8039dB | (1) |
| Radiated Emission | 200MHz-1GHz | 3.9679dB | (1) |
| Radiated Emission | 1GHz-18GHz | 4.29dB | (1) |
| Radiated Emission | 18GHz-40GHz | 3.30dB | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 3.44dB | (1) |
| Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. | | | |

# 5 General Information

## 5.1 General Description of EUT

| | |
|---|---|
| Product Name: | AI Fever Screening System |
| Model No.: | AWS-60-E12 |
| Serial No.: | N/A |
| Hardware Version: | G3-V1.2 |
| Software Version: | rk3399-userdebug 8.1.0 OPM8.1 |
| Test sample(s) ID: | GTS202004000024-1 |
| Sample(s) Status: | Engineer sample |
| Operation Frequency: | 2412MHz~2462MHz(802.11b/g/n(HT20)) |
| Channel numbers: | 802.11b/802.11g /802.11n(HT20): 11 |
| Channel separation: | 5MHz |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS)<br>802.11g/802.11n(H20):<br>Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type: | External Antenna (with reversed polarity non standard antenna port) |
| Antenna gain: | 5.5dBi(Declared by applicant) |
| Power supply: | AC ADAPTER<br>MODEL: SR-A51202000U<br>INPUT: AC 100-240V, 50/60Hz 0.75A<br>OUTPUT::DC12V, 2000mA |

| 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:

| **Test channel** | **Frequency (MHz)** |
|---|---|
| | 802.11b/802.11g/802.11n(HT20) |
| Lowest channel | 2412MHz |
| Middle channel | 2437MHz |
| Highest channel | 2462MHz |

## 5.2 Test mode

| | |
|---|---|
| Transmitting mode | Keep the EUT in continuously transmitting mode |

*Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.*

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:

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

| Mode | 802.11b | 802.11g | 802.11n(HT20) |
|---|---|---|---|
| Data rate | 1Mbps | 6Mbps | 6.5Mbps |

## 5.3 Description of Support Units

None.

## 5.4 Deviation from Standards

None.

## 5.5 Abnormalities from Standard Conditions

None.

## 5.6 Test Facility

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

● **FCC —Registration No.: 381383**

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 files. Registration 381383.

● **IC —Registration No.: 9079A**

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

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

## 5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.
Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102
Tel: 0755-27798480
Fax: 0755-27798960

## 5.8 Additional Instructions

| | |
|---|---|
| Test Software | Special test command provided by manufacturer |
| Power level setup | Default |

# 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 | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | July. 03 2015 | July. 02 2020 |
| 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 | June. 26 2019 | June. 25 2020 |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June. 26 2019 | June. 25 2020 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120 D | GTS208 | June. 26 2019 | June. 25 2020 |
| 6 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | June. 26 2019 | June. 25 2020 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 8 | Coaxial Cable | GTS | N/A | GTS213 | June. 26 2019 | June. 25 2020 |
| 9 | Coaxial Cable | GTS | N/A | GTS211 | June. 26 2019 | June. 25 2020 |
| 10 | Coaxial cable | GTS | N/A | GTS210 | June. 26 2019 | June. 25 2020 |
| 11 | Coaxial Cable | GTS | N/A | GTS212 | June. 26 2019 | June. 25 2020 |
| 12 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | June. 26 2019 | June. 25 2020 |
| 13 | Amplifier(2GHz-20GHz) | HP | 84722A | GTS206 | June. 26 2019 | June. 25 2020 |
| 14 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June. 26 2019 | June. 25 2020 |
| 15 | Band filter | Amindeon | 82346 | GTS219 | June. 26 2019 | June. 25 2020 |
| 16 | Power Meter | Anritsu | ML2495A | GTS540 | June. 26 2019 | June. 25 2020 |
| 17 | Power Sensor | Anritsu | MA2411B | GTS541 | June. 26 2019 | June. 25 2020 |
| 18 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | GTS575 | June. 26 2019 | June. 25 2020 |
| 19 | Splitter | Agilent | 11636B | GTS237 | June. 26 2019 | June. 25 2020 |
| 20 | Loop Antenna | ZHINAN | ZN30900A | GTS534 | June. 26 2019 | June. 25 2020 |
| 21 | Breitband hornantenne | SCHWARZBECK | BBHA 9170 | GTS579 | Oct. 19 2019 | Oct. 18 2020 |
| 22 | Amplifier | TDK | PA-02-02 | GTS574 | Oct. 19 2019 | Oct. 18 2020 |
| 23 | Amplifier | TDK | PA-02-03 | GTS576 | Oct. 19 2019 | Oct. 18 2020 |
| 24 | PSA Series Spectrum Analyzer | Rohde & Schwarz | FSP | GTS578 | June. 26 2019 | June. 25 2020 |

| 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 | 7.3(L)x3.1(W)x2.9(H) | GTS252 | May.15 2019 | May.14 2022 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June. 26 2019 | June. 25 2020 |
| 3 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June. 26 2019 | June. 25 2020 |
| 4 | Artificial Mains Network | SCHWARZBECK MESS | NSLK8127 | GTS226 | June. 26 2019 | June. 25 2020 |
| 5 | Coaxial Cable | GTS | N/A | GTS227 | N/A | N/A |
| 6 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 7 | Thermo meter | KTJ | TA328 | GTS233 | June. 26 2019 | June. 25 2020 |
| 8 | Absorbing clamp | Elektronik-Feinmechanik | MDS21 | GTS229 | June. 26 2019 | June. 25 2020 |
| 9 | ISN | SCHWARZBECK | NTFM 8158 | GTD565 | June. 26 2019 | June. 25 2020 |

| RF Conducted Test: | | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal.Date (mm-dd-yy)** | **Cal.Due date (mm-dd-yy)** |
| 1 | MXA Signal Analyzer | Agilent | N9020A | GTS566 | June. 26 2019 | June. 25 2020 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June. 26 2019 | June. 25 2020 |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | June. 26 2019 | June. 25 2020 |
| 4 | MXG vector Signal Generator | Agilent | N5182A | GTS567 | June. 26 2019 | June. 25 2020 |
| 5 | ESG Analog Signal Generator | Agilent | E4428C | GTS568 | June. 26 2019 | June. 25 2020 |
| 6 | USB RF Power Sensor | DARE | RPR3006W | GTS569 | June. 26 2019 | June. 25 2020 |
| 7 | RF Switch Box | Shongyi | RFSW3003328 | GTS571 | June. 26 2019 | June. 25 2020 |
| 8 | Programmable Constant Temp & Humi Test Chamber | WEWON | WHTH-150L-40-880 | GTS572 | June. 26 2019 | June. 25 2020 |

| General used equipment: | | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal.Date (mm-dd-yy)** | **Cal.Due date (mm-dd-yy)** |
| 1 | Humidity/ Temperature Indicator | KTJ | TA328 | GTS243 | June. 26 2019 | June. 25 2020 |
| 2 | Barometer | ChangChun | DYM3 | GTS255 | June. 26 2019 | June. 25 2020 |

# 7 Test results and Measurement Data

## 7.1 Antenna requirement

| **Standard requirement:** | FCC Part15 C Section 15.203 /247(c) |
|---|---|
| **15.203 requirement:**<br>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.<br>**15.247(c) (1)(i) requirement:**<br>(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. | |
| **EUT Antenna:** | |
| *The antenna is external antenna, the best case gain of the antenna is 5.5dBi, reference to the appendix II for details* | |

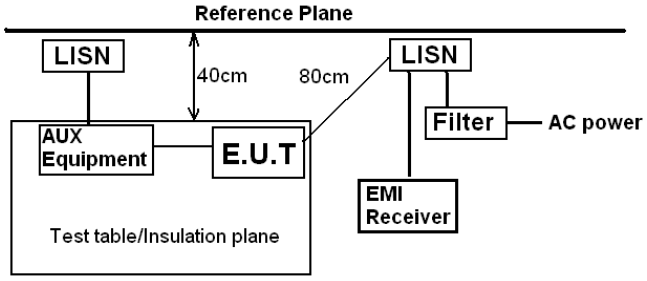
## 7.2 Conducted Emissions

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.207 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 150KHz to 30MHz |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |
| 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 setup:



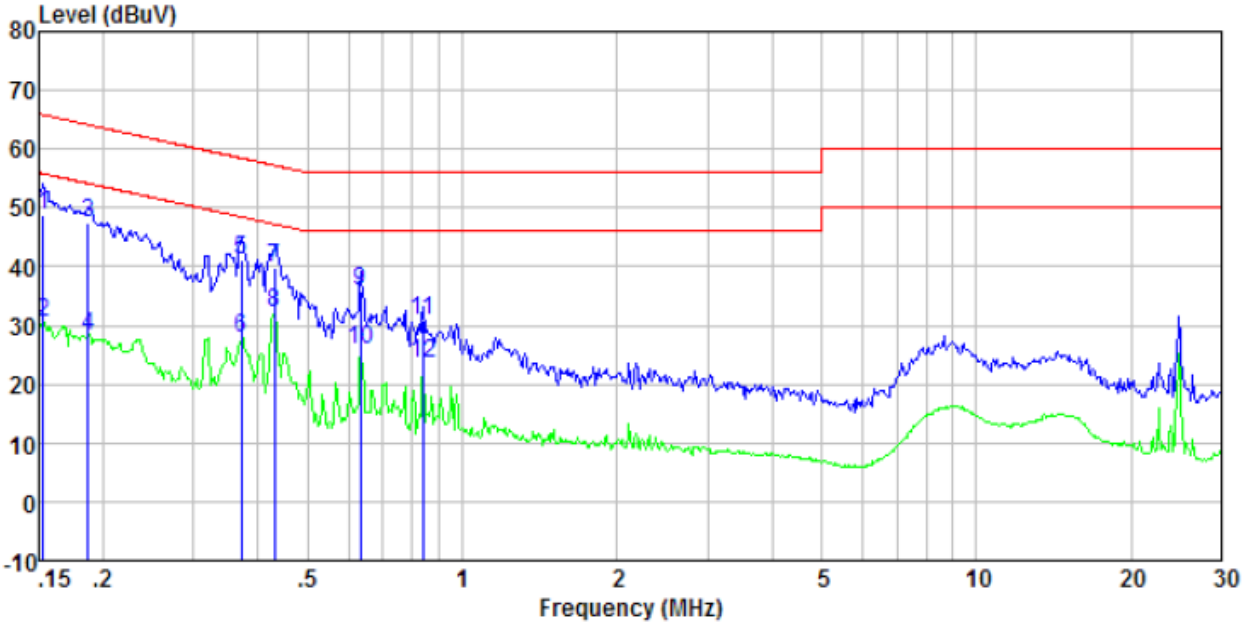

*Remark:*
*E.U.T: Equipment Under Test*
*LISN: Line Impedence Stabilization Network*
*Test table height=0.8m*

Test procedure:

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This 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 C63.10:2013 on conducted measurement.

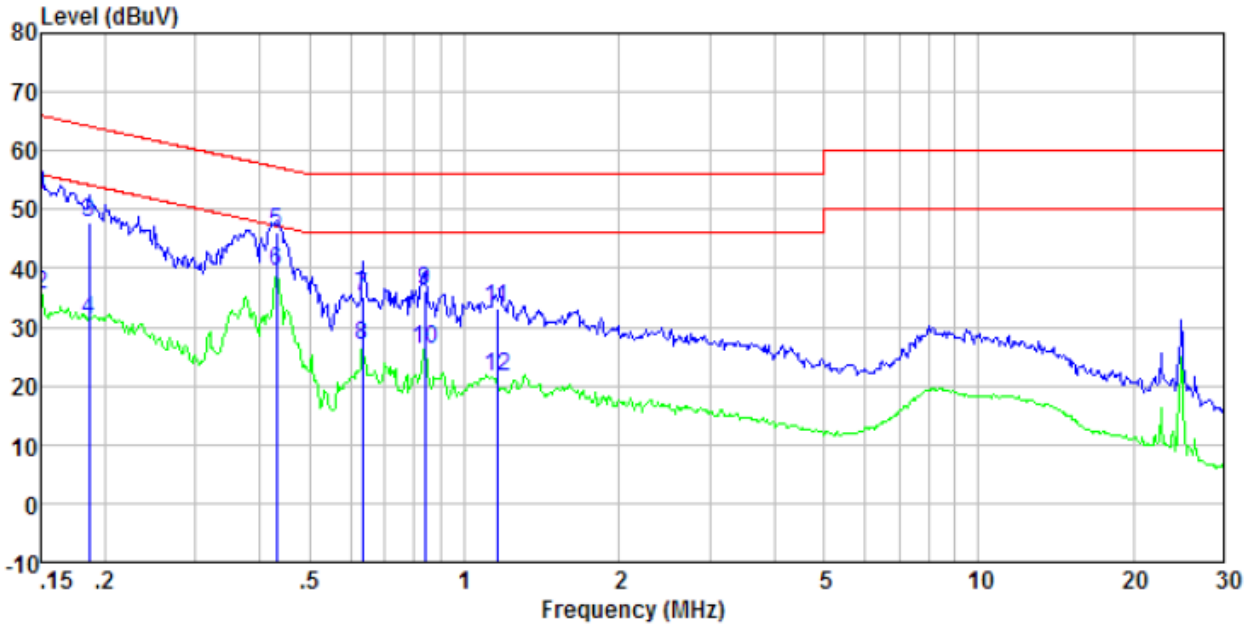
| | | | | | | |
|---|---|---|---|---|---|---|
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test voltage: | AC 120V, 60Hz | | | | | |
| Test results: | Pass | | | | | |

**Measurement data**
**Line:**




| Freq MHz | Reading level dBuV | LISN/ISN factor dB/m | Cable loss dB | Level dBuV | Limit level dBuV | Over limit dB | Remark |
|---|---|---|---|---|---|---|---|
| 0.15 | 28.27 | 20.40 | 0.07 | 48.74 | 65.82 | -17.08 | QP |
| 0.15 | 10.14 | 20.40 | 0.07 | 30.61 | 55.82 | -25.21 | Average |
| 0.19 | 26.85 | 20.40 | 0.10 | 47.35 | 64.15 | -16.80 | QP |
| 0.19 | 7.61 | 20.40 | 0.10 | 28.11 | 54.15 | -26.04 | Average |
| 0.37 | 20.77 | 20.36 | 0.10 | 41.23 | 58.47 | -17.24 | QP |
| 0.37 | 7.29 | 20.36 | 0.10 | 27.75 | 48.47 | -20.72 | Average |
| 0.43 | 19.51 | 20.34 | 0.11 | 39.96 | 57.24 | -17.28 | QP |
| 0.43 | 11.61 | 20.34 | 0.11 | 32.06 | 47.24 | -15.18 | Average |
| 0.63 | 15.59 | 20.28 | 0.12 | 35.99 | 56.00 | -20.01 | QP |
| 0.63 | 5.61 | 20.28 | 0.12 | 26.01 | 46.00 | -19.99 | Average |
| 0.84 | 10.63 | 20.23 | 0.14 | 31.00 | 56.00 | -25.00 | QP |
| 0.84 | 3.07 | 20.23 | 0.14 | 23.44 | 46.00 | -22.56 | Average |

**Neutral:**

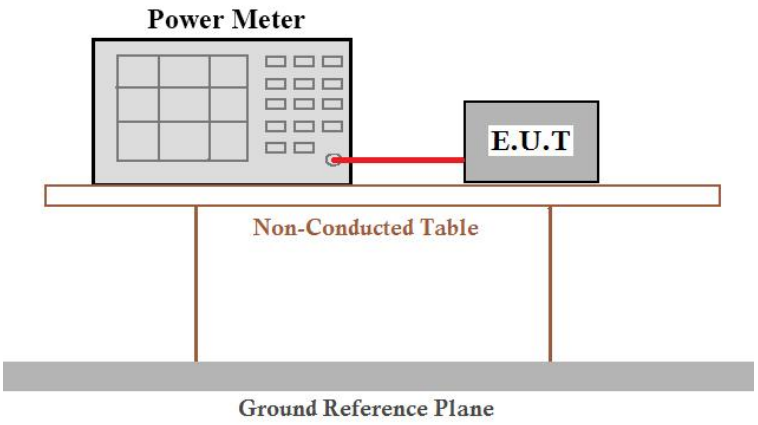



| Freq MHz | Reading level dBuV | LISN/ISN factor dB/m | Cable loss dB | Level dBuV | Limit level dBuV | Over limit dB | Remark |
|---|---|---|---|---|---|---|---|
| 0.15 | 31.83 | 20.40 | 0.07 | 52.30 | 66.00 | -13.70 | QP |
| 0.15 | 15.17 | 20.40 | 0.07 | 35.64 | 56.00 | -20.36 | Average |
| 0.19 | 27.28 | 20.40 | 0.10 | 47.78 | 64.20 | -16.42 | QP |
| 0.19 | 10.61 | 20.40 | 0.10 | 31.11 | 54.20 | -23.09 | Average |
| 0.43 | 25.59 | 20.34 | 0.11 | 46.04 | 57.24 | -11.20 | QP |
| 0.43 | 19.09 | 20.34 | 0.11 | 39.54 | 47.24 | -7.70 | Average |
| 0.63 | 14.68 | 20.28 | 0.12 | 35.08 | 56.00 | -20.92 | QP |
| 0.63 | 6.40 | 20.28 | 0.12 | 26.80 | 46.00 | -19.20 | Average |
| 0.84 | 15.75 | 20.23 | 0.14 | 36.12 | 56.00 | -19.88 | QP |
| 0.84 | 5.72 | 20.23 | 0.14 | 26.09 | 46.00 | -19.91 | Average |
| 1.16 | 12.76 | 20.20 | 0.16 | 33.12 | 56.00 | -22.88 | QP |
| 1.16 | 1.16 | 20.20 | 0.16 | 21.52 | 46.00 | -24.48 | Average |

*Notes:*

1. An initial pre-scan was performed on the line 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
4. *If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.*

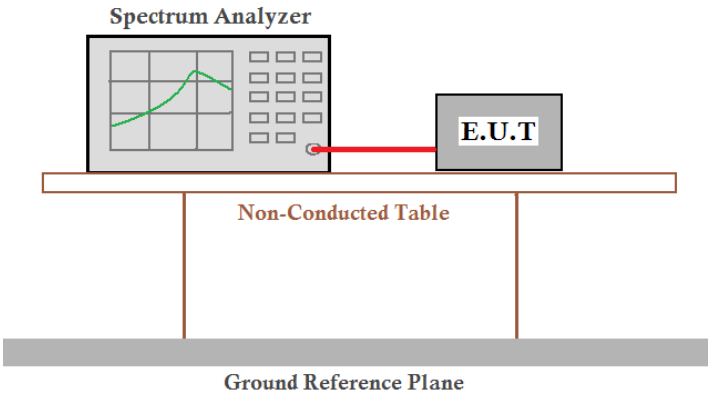
## 7.3 Conducted Peak Output Power

| | |
|---|---|
| Test Requirement : | FCC Part15 C Section 15.247 (b)(3) |
| Test Method : | KDB558074 D01 DTS Meas Guidance v05r02 |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Measurement Data**

| Test CH | Peak Output Power (dBm) | | | Limit(dBm) | Result |
|---|---|---|---|---|---|
| | 802.11b | 802.11g | 802.11n(HT20) | | |
| Lowest | 16.82 | 14.62 | 14.90 | 30.00 | Pass |
| Middle | 16.81 | 14.94 | 15.09 | | |
| Highest | 16.68 | 15.26 | 14.98 | | |

## 7.4 Channel Bandwidth

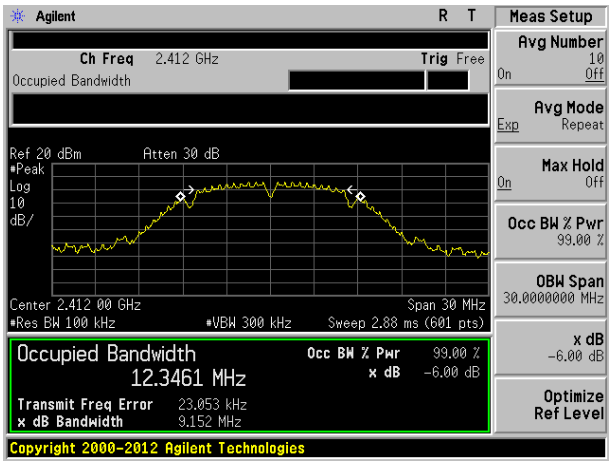
| | |
|---|---|
| Test Requirement : | FCC Part15 C Section 15.247 (a)(2) |
| Test Method : | KDB558074 D01 DTS Meas Guidance v05r02 |
| Limit: | >500KHz |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

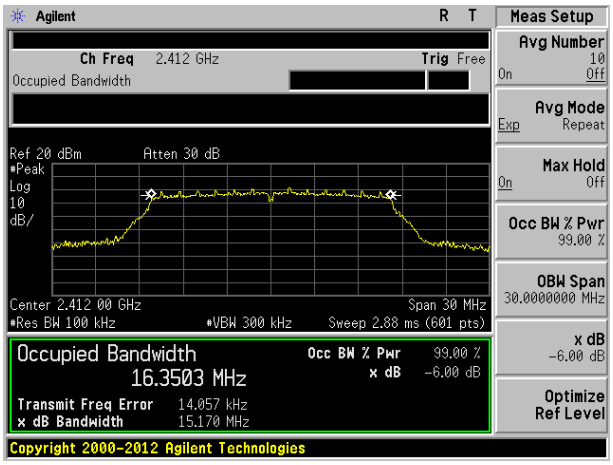
**Measurement Data**

| Test CH | Channel Bandwidth (MHz) | | | Limit(KHz) | Result |
|---|---|---|---|---|---|
| | 802.11b | 802.11g | 802.11n(HT20) | | |
| Lowest | 9.152 | 15.170 | 15.180 | >500 | Pass |
| Middle | 9.121 | 15.177 | 16.866 | | |
| Highest | 9.574 | 15.180 | 15.199 | | |

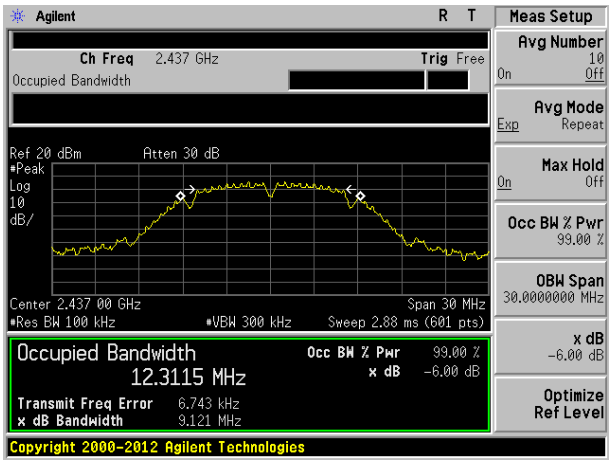
**Test plot as follows:**

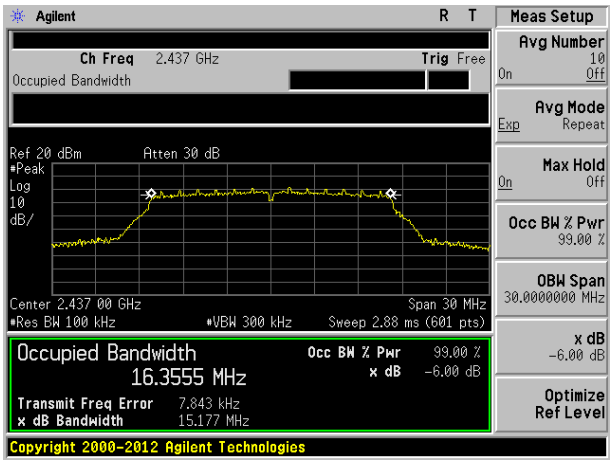
| 802.11b | 802.11g |
|---|---|



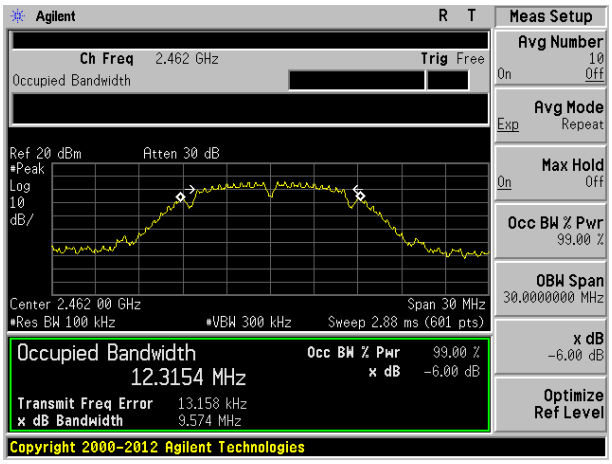



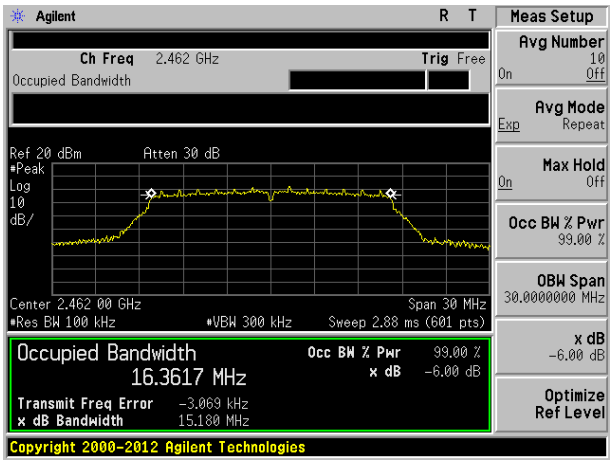

Lowest channel



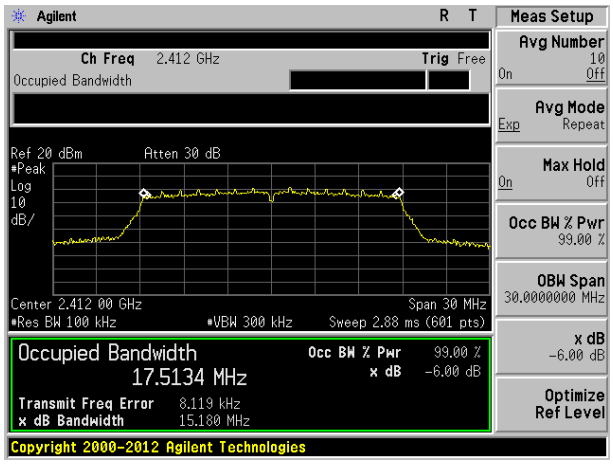

Middle channel



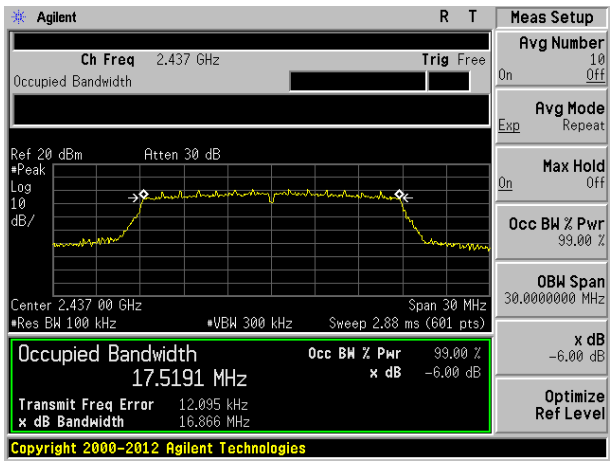




Highest channel

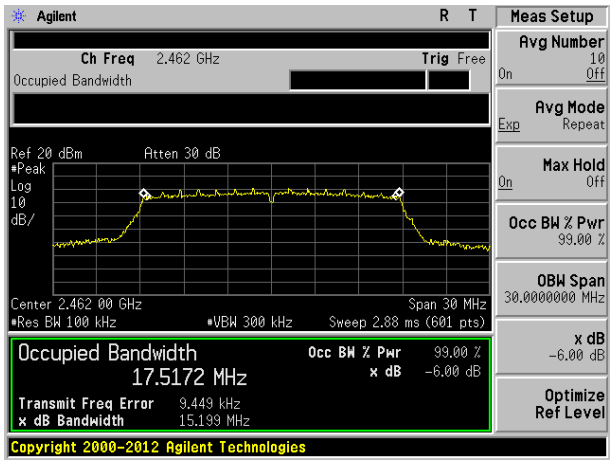
802.11n(HT20)




Lowest channel

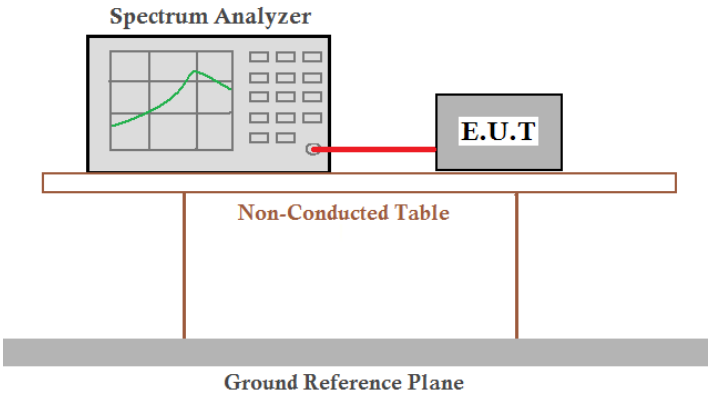



Middle channel




Highest channel

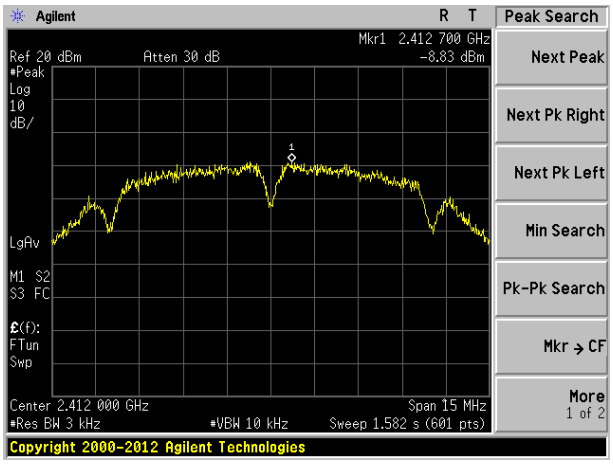
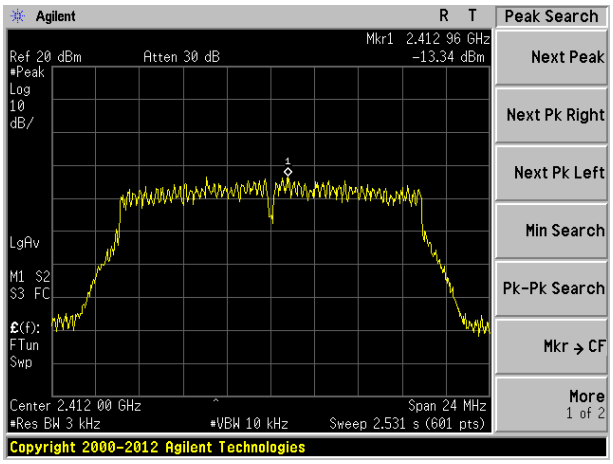
## 7.5 Power Spectral Density

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | KDB558074 D01 DTS Meas Guidance v05r02 |
| Limit: | 8dBm/3kHz |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Measurement Data**

| Test CH | Power Spectral Density (dBm/3kHz) | | | Limit (dBm/3kHz) | Result |
|---|---|---|---|---|---|
| | 802.11b | 802.11g | 802.11n(HT20) | | |
| Lowest | -8.83 | -13.34 | -11.92 | 8.00 | Pass |
| Middle | -8.43 | -13.33 | -11.72 | | |
| Highest | -7.76 | -13.72 | -12.94 | | |

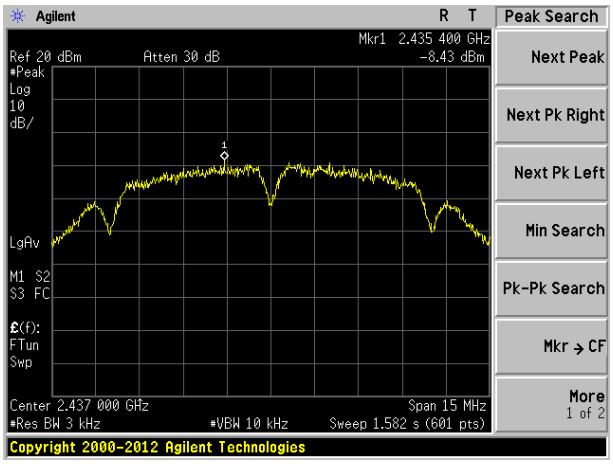
**Test plot as follows:**

| 802.11b | 802.11b |
|---|---|
|  |  |

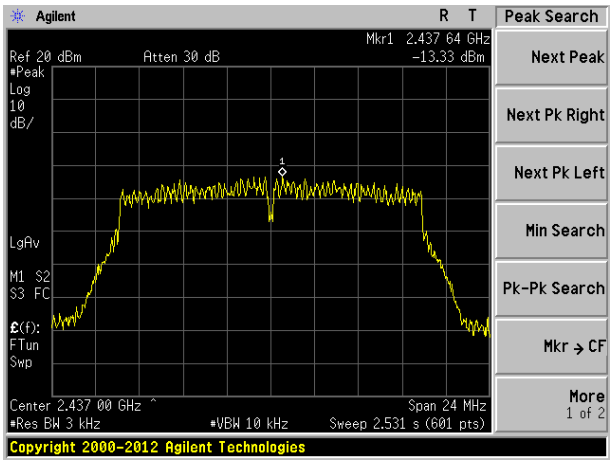




Lowest channel

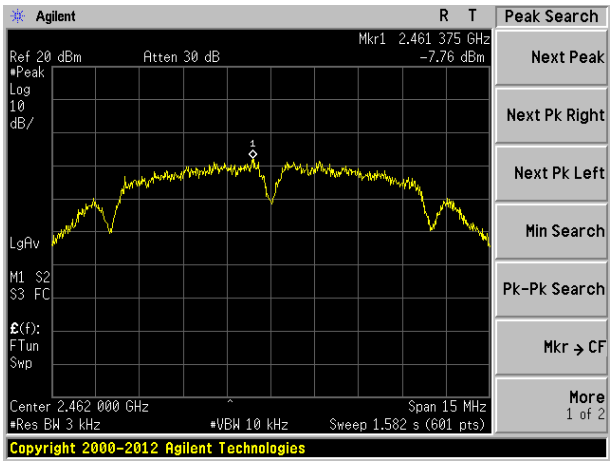




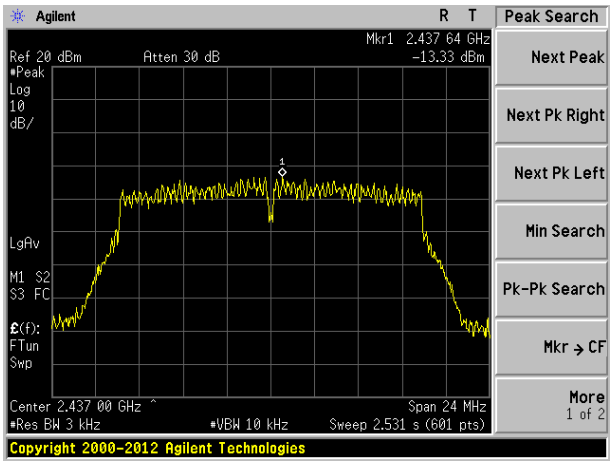




Middle channel



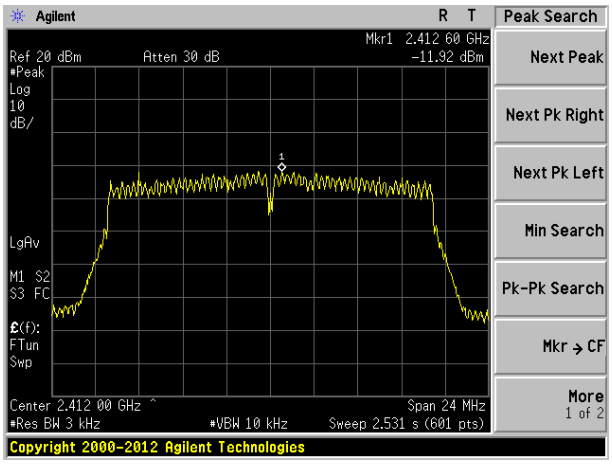




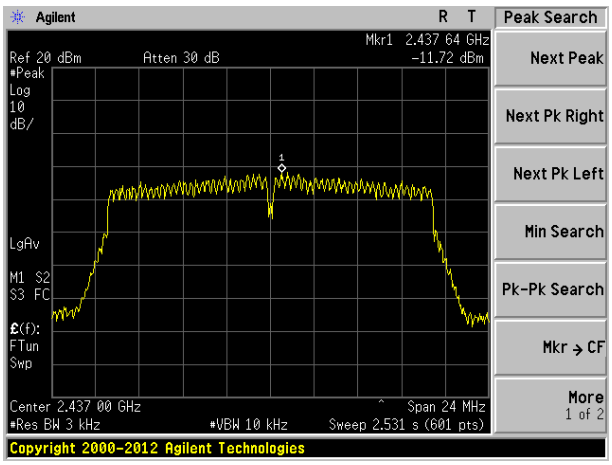


Highest channel

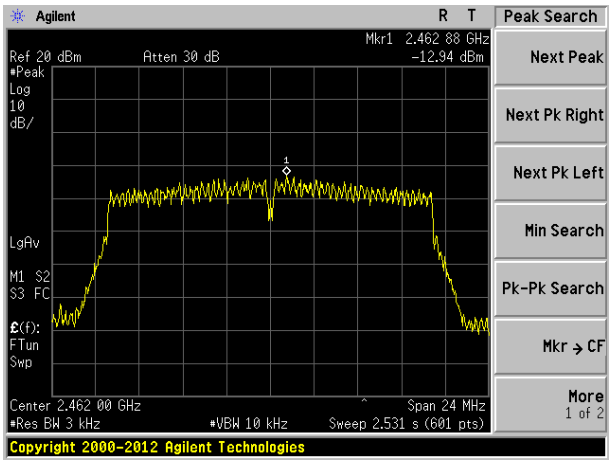
802.11n(HT20)




Lowest channel



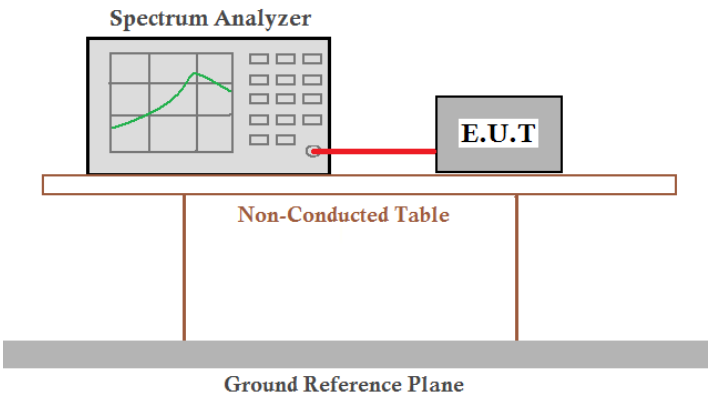

Middle channel




Highest channel

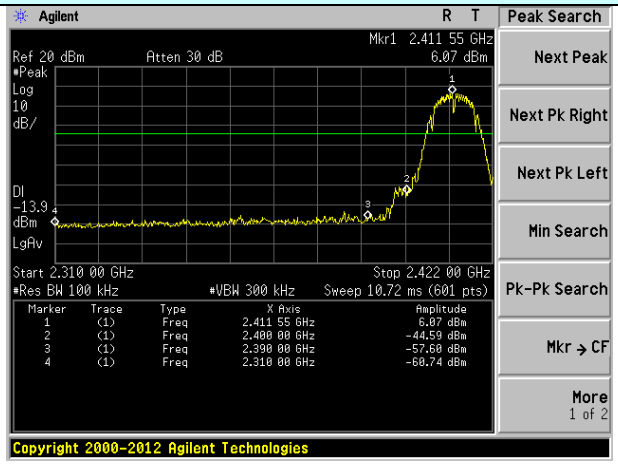
## 7.6 Band edges

### 7.6.1 Conducted Emission Method

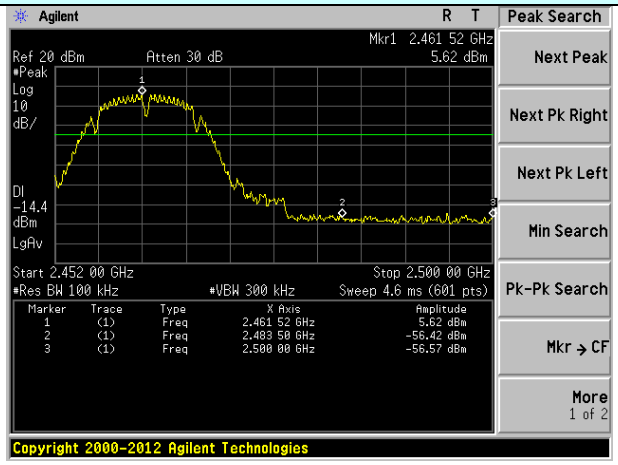
| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | KDB558074 D01 DTS Meas Guidance v05r02 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by 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 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Test plot as follows:**

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

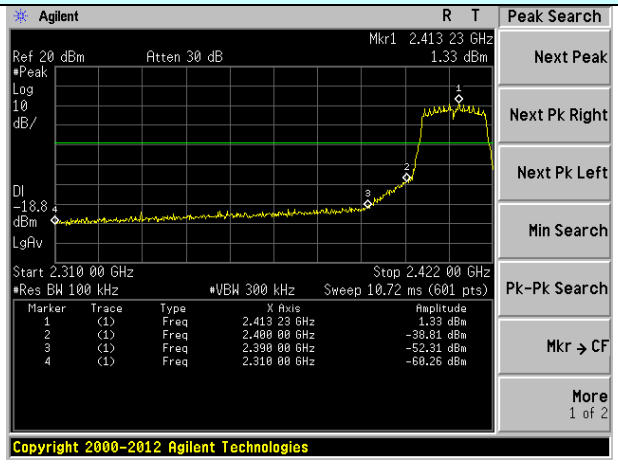



Lowest channel

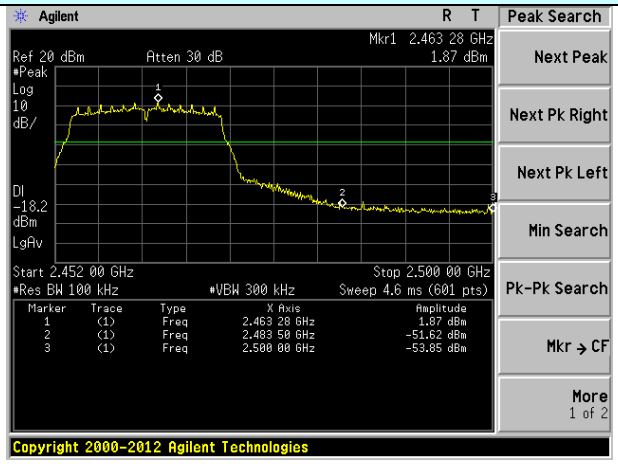



Highest channel

| Test mode: | 802.11g |
|---|---|

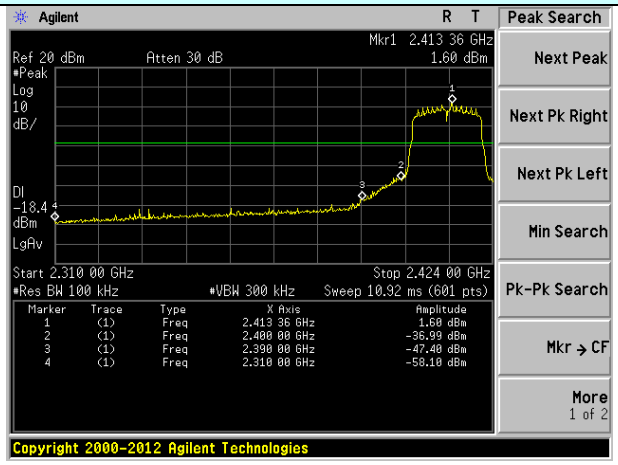



Lowest channel

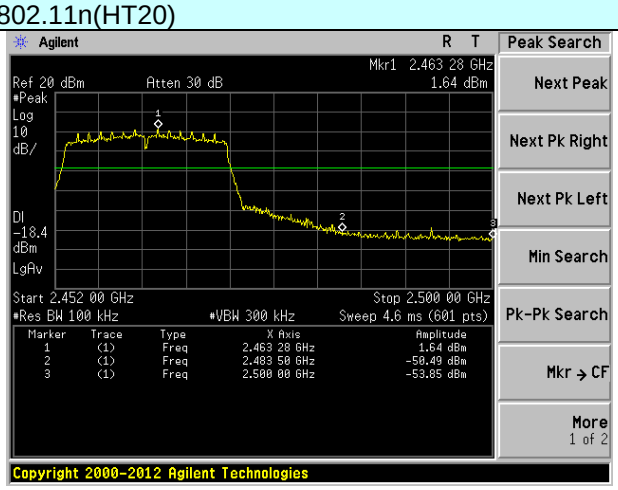



Highest channel

| Test mode: | 802.11n(HT20) |
|---|---|




Lowest channel




Highest channel

### 7.6.2 Radiated Emission Method

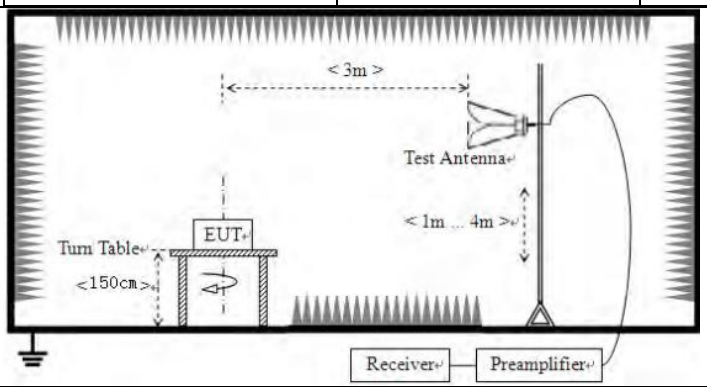
| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 |
| Test Method: | ANSI C63.10: 2013 |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. |
| Test site: | Measurement Distance: 3m |
| Receiver setup: | |

| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | RMS | 1MHz | 3MHz | Average |

Limit:

| Frequency | Limit (dBuV/m @3m) | Value |
|---|---|---|
| Above 1GHz | 54.00 | Average |
| | 74.00 | Peak |

Test setup:




Test Procedure:

1. The EUT was placed on the top of a rotating table 1.5 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.
7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.

| | |
|---|---|
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Measurement data:**

| Test mode: | 802.11b | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 2310.00 | 39.87 | 27.14 | 6.19 | 42.04 | 31.16 | 74.00 | -42.84 | Horizontal |
| 2390.00 | 48.29 | 27.37 | 6.31 | 42.11 | 39.86 | 74.00 | -34.14 | Horizontal |
| 2310.00 | 38.43 | 27.14 | 6.19 | 42.04 | 29.72 | 74.00 | -44.28 | Vertical |
| 2390.00 | 49.60 | 27.37 | 6.31 | 42.11 | 41.17 | 74.00 | -32.83 | Vertical |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 2310.00 | 30.14 | 27.14 | 6.19 | 42.04 | 21.43 | 54.00 | -32.57 | Horizontal |
| 2390.00 | 37.24 | 27.37 | 6.31 | 42.11 | 28.81 | 54.00 | -25.19 | Horizontal |
| 2310.00 | 28.82 | 27.14 | 6.19 | 42.04 | 20.11 | 54.00 | -33.89 | Vertical |
| 2390.00 | 39.23 | 27.37 | 6.31 | 42.11 | 30.80 | 54.00 | -23.20 | Vertical |

| Test mode: | 802.11b | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| 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 | 48.76 | 27.66 | 6.45 | 42.01 | 40.86 | 74.00 | -33.14 | Horizontal |
| 2500.00 | 41.16 | 27.70 | 6.47 | 42.00 | 33.33 | 74.00 | -40.67 | Horizontal |
| 2483.50 | 48.66 | 27.66 | 6.45 | 42.01 | 40.76 | 74.00 | -33.24 | Vertical |
| 2500.00 | 42.36 | 27.70 | 6.47 | 42.00 | 34.53 | 74.00 | -39.47 | Vertical |

**Average value:**

| 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 | 37.24 | 27.66 | 6.45 | 42.01 | 29.34 | 54.00 | -24.66 | Horizontal |
| 2500.00 | 33.68 | 27.70 | 6.47 | 42.00 | 25.85 | 54.00 | -28.15 | Horizontal |
| 2483.50 | 38.03 | 27.66 | 6.45 | 42.01 | 30.13 | 54.00 | -23.87 | Vertical |
| 2500.00 | 32.49 | 27.70 | 6.47 | 42.00 | 24.66 | 54.00 | -29.34 | Vertical |

| Test mode: | 802.11g | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 2310.00 | 39.52 | 27.14 | 6.19 | 42.04 | 30.81 | 74.00 | -43.19 | Horizontal |
| 2390.00 | 47.82 | 27.37 | 6.31 | 42.11 | 39.39 | 74.00 | -34.61 | Horizontal |
| 2310.00 | 38.05 | 27.14 | 6.19 | 42.04 | 29.34 | 74.00 | -44.66 | Vertical |
| 2390.00 | 49.04 | 27.37 | 6.31 | 42.11 | 40.61 | 74.00 | -33.39 | Vertical |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 2310.00 | 29.90 | 27.14 | 6.19 | 42.04 | 21.19 | 54.00 | -32.81 | Horizontal |
| 2390.00 | 36.96 | 27.37 | 6.31 | 42.11 | 28.53 | 54.00 | -25.47 | Horizontal |
| 2310.00 | 28.54 | 27.14 | 6.19 | 42.04 | 19.83 | 54.00 | -34.17 | Vertical |
| 2390.00 | 38.92 | 27.37 | 6.31 | 42.11 | 30.49 | 54.00 | -23.51 | Vertical |

| Test mode: | 802.11g | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| 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 | 48.26 | 27.66 | 6.45 | 42.01 | 40.36 | 74.00 | -33.64 | Horizontal |
| 2500.00 | 40.77 | 27.70 | 6.47 | 42.00 | 32.94 | 74.00 | -41.06 | Horizontal |
| 2483.50 | 48.09 | 27.66 | 6.45 | 42.01 | 40.19 | 74.00 | -33.81 | Vertical |
| 2500.00 | 41.91 | 27.70 | 6.47 | 42.00 | 34.08 | 74.00 | -39.92 | Vertical |

**Average value:**

| 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 | 36.94 | 27.66 | 6.45 | 42.01 | 29.04 | 54.00 | -24.96 | Horizontal |
| 2500.00 | 33.45 | 27.70 | 6.47 | 42.00 | 25.62 | 54.00 | -28.38 | Horizontal |
| 2483.50 | 37.69 | 27.66 | 6.45 | 42.01 | 29.79 | 54.00 | -24.21 | Vertical |
| 2500.00 | 32.24 | 27.70 | 6.47 | 42.00 | 24.41 | 54.00 | -29.59 | Vertical |

| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 2310.00 | 39.44 | 27.14 | 6.19 | 42.04 | 30.73 | 74.00 | -43.27 | Horizontal |
| 2390.00 | 47.71 | 27.37 | 6.31 | 42.11 | 39.28 | 74.00 | -34.72 | Horizontal |
| 2310.00 | 37.97 | 27.14 | 6.19 | 42.04 | 29.26 | 74.00 | -44.74 | Vertical |
| 2390.00 | 48.91 | 27.37 | 6.31 | 42.11 | 40.48 | 74.00 | -33.52 | Vertical |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 2310.00 | 29.84 | 27.14 | 6.19 | 42.04 | 21.13 | 54.00 | -32.87 | Horizontal |
| 2390.00 | 36.89 | 27.37 | 6.31 | 42.11 | 28.46 | 54.00 | -25.54 | Horizontal |
| 2310.00 | 28.48 | 27.14 | 6.19 | 42.04 | 19.77 | 54.00 | -34.23 | Vertical |
| 2390.00 | 38.85 | 27.37 | 6.31 | 42.11 | 30.42 | 54.00 | -23.58 | Vertical |

| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| 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 | 48.15 | 27.66 | 6.45 | 42.01 | 40.25 | 74.00 | -33.75 | Horizontal |
| 2500.00 | 40.68 | 27.70 | 6.47 | 42.00 | 32.85 | 74.00 | -41.15 | Horizontal |
| 2483.50 | 47.95 | 27.66 | 6.45 | 42.01 | 40.05 | 74.00 | -33.95 | Vertical |
| 2500.00 | 41.80 | 27.70 | 6.47 | 42.00 | 33.97 | 74.00 | -40.03 | Vertical |

**Average value:**

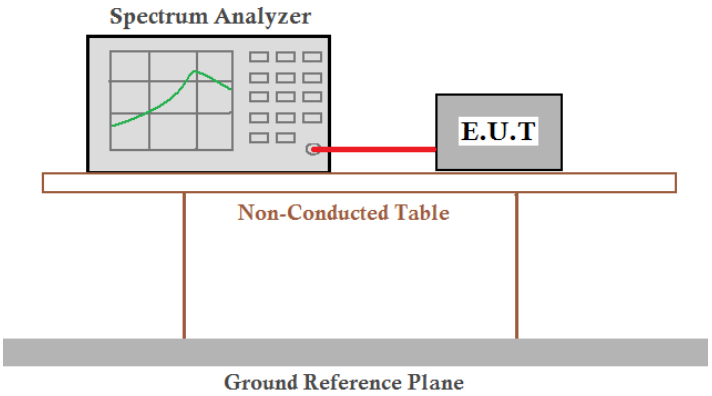
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 2483.50 | 36.87 | 27.66 | 6.45 | 42.01 | 28.97 | 54.00 | -25.03 | Horizontal |
| 2500.00 | 33.39 | 27.70 | 6.47 | 42.00 | 25.56 | 54.00 | -28.44 | Horizontal |
| 2483.50 | 37.62 | 27.66 | 6.45 | 42.01 | 29.72 | 54.00 | -24.28 | Vertical |
| 2500.00 | 32.18 | 27.70 | 6.47 | 42.00 | 24.35 | 54.00 | -29.65 | Vertical |

*Remarks:*

1. *Only the worst case Main Antenna test data.*
2. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
3. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
4. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

## 7.7 Spurious Emission

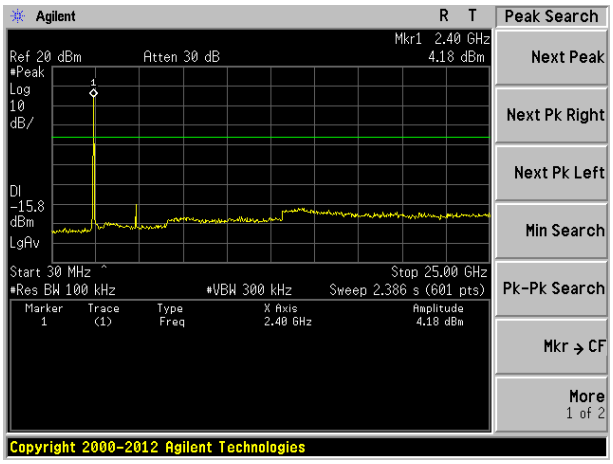
### 7.7.1 Conducted Emission Method

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | KDB558074 D01 DTS Meas Guidance v05r02 |
| 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 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Test plot as follows:**

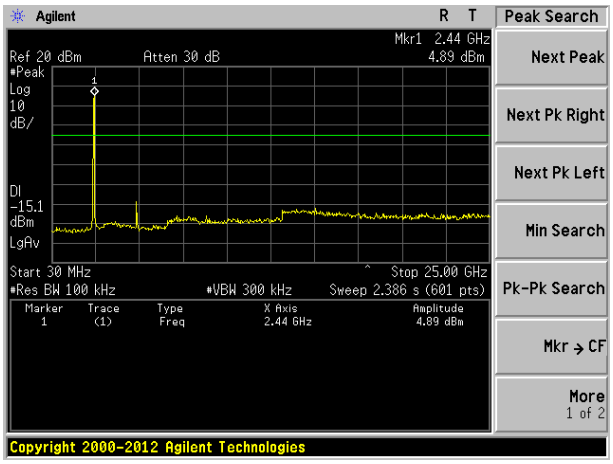
802.11b

Lowest channel



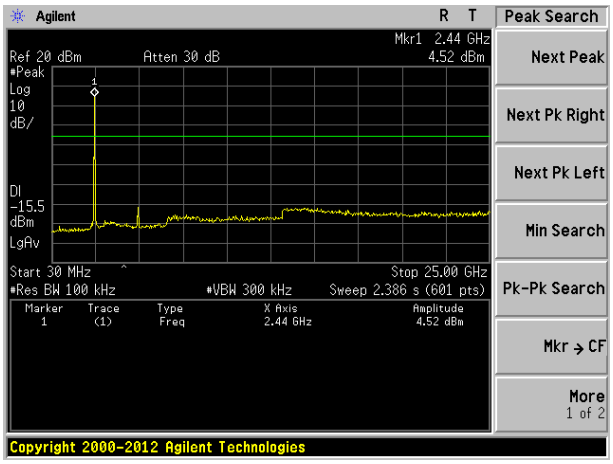

30MHz~25GHz

Middle channel




30MHz~25GHz

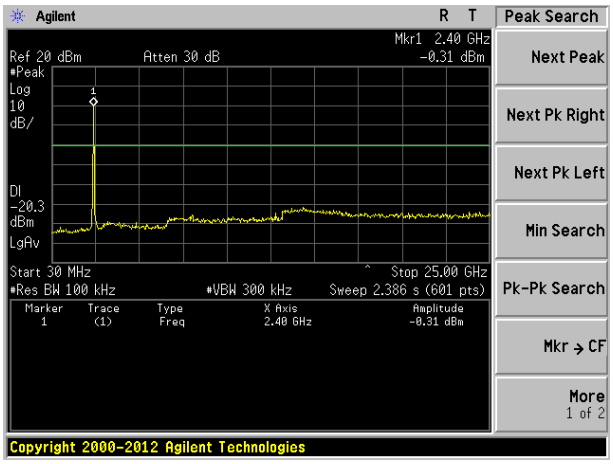
Highest channel




30MHz~25GHz

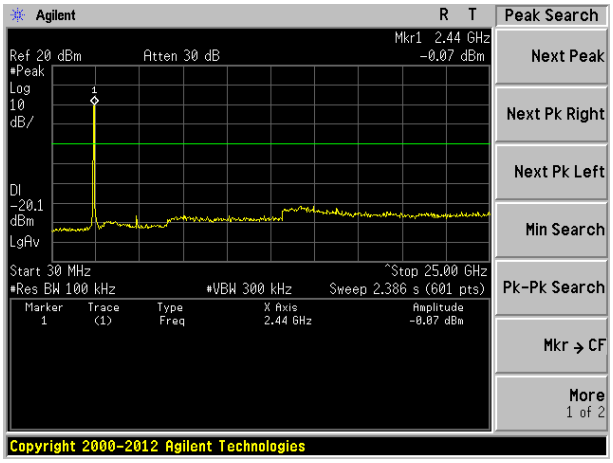
802.11g

Lowest channel



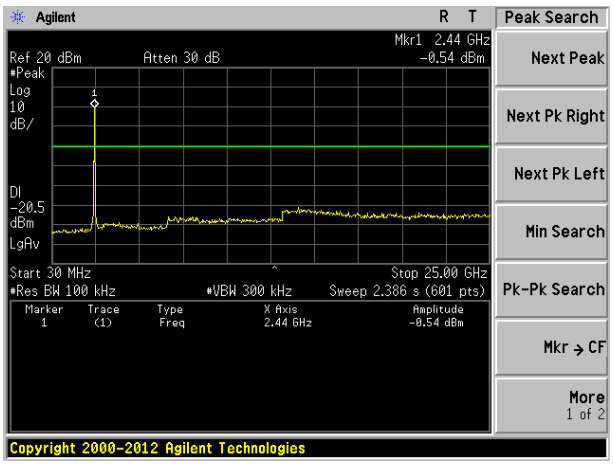

30MHz~25GHz

Middle channel




30MHz~25GHz

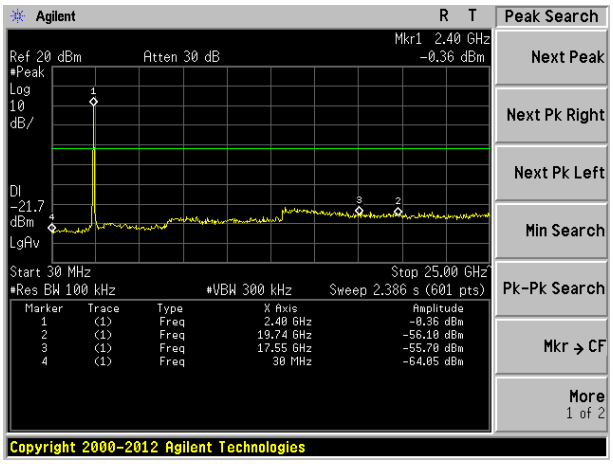
Highest channel




30MHz~25GHz

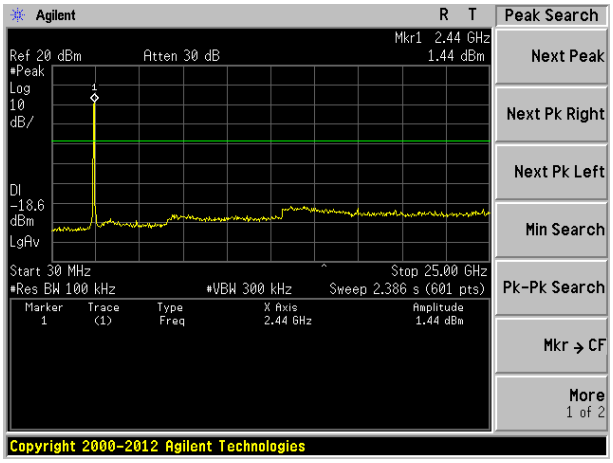
802.11n(HT20)

Lowest channel



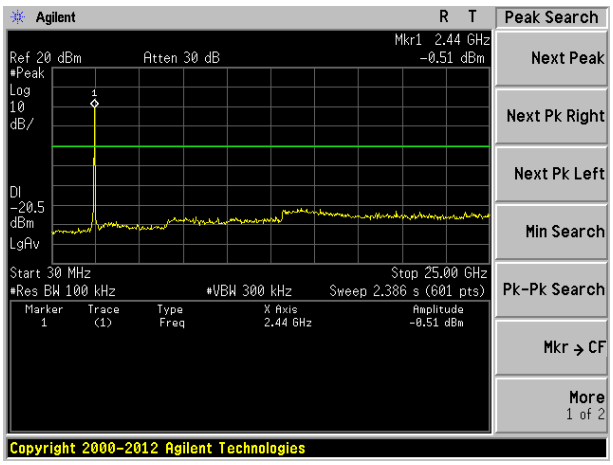

30MHz~25GHz

Middle channel




30MHz~25GHz

Highest channel




30MHz~25GHz

### 7.7.2 Radiated Emission Method

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 |
| Test Method: | ANSI C63.10: 2013 |
| Test Frequency Range: | 9kHz to 25GHz |
| Test site: | Measurement Distance: 3m |

Receiver setup:

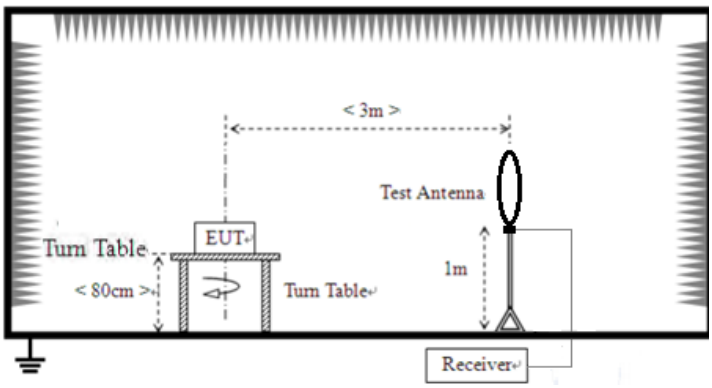
| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

Limit:

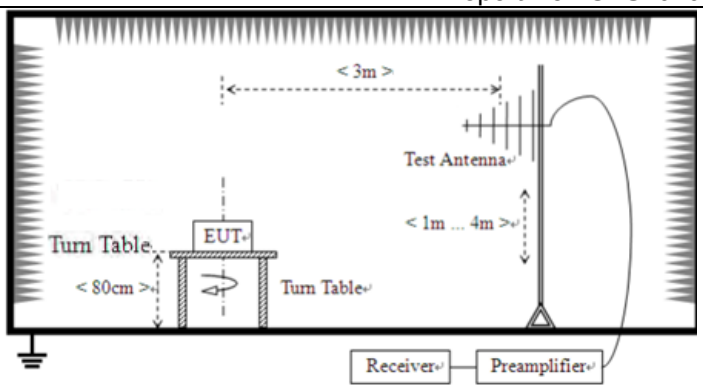
| Frequency | Limit (uV/m) | Value | Measurement Distance |
|---|---|---|---|
| 0.009MHz-0.490MHz | 2400/F(KHz) | QP | 300m |
| 0.490MHz-1.705MHz | 24000/F(KHz) | QP | 30m |
| 1.705MHz-30MHz | 30 | QP | 30m |
| 30MHz-88MHz | 100 | QP | 3m |
| 88MHz-216MHz | 150 | QP | |
| 216MHz-960MHz | 200 | QP | |
| 960MHz-1GHz | 500 | QP | |
| Above 1GHz | 500 | Average | |
| | 5000 | Peak | |

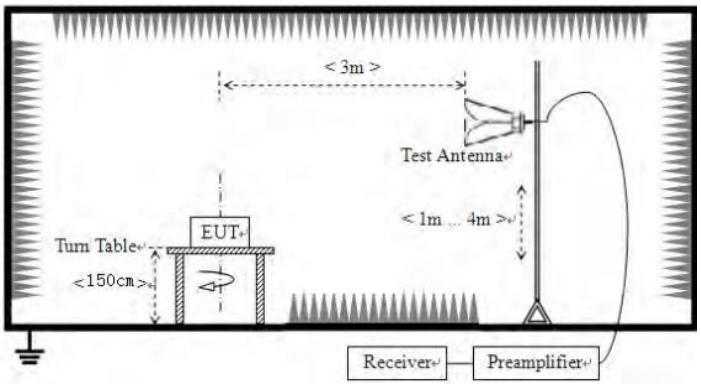
Test setup:

For radiated emissions from 9kHz to 30MHz




For radiated emissions from 30MHz to1GHz

<table>
<tr><td></td><td>


<br>For radiated emissions above 1GHz<br>


</td></tr>
<tr><td>Test Procedure:</td><td>
1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>
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.<br>
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.<br>
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.<br>
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>
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.
</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 6.0 for details</td></tr>
</table>

| | | | | | | |
|---|---|---|---|---|---|---|
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test voltage: | AC120V 60Hz | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test results: | Pass | | | | | |
| | | | | | | |

*Remarks:*

1. *Only the worst case Main Antenna test data.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

**Measurement data:**

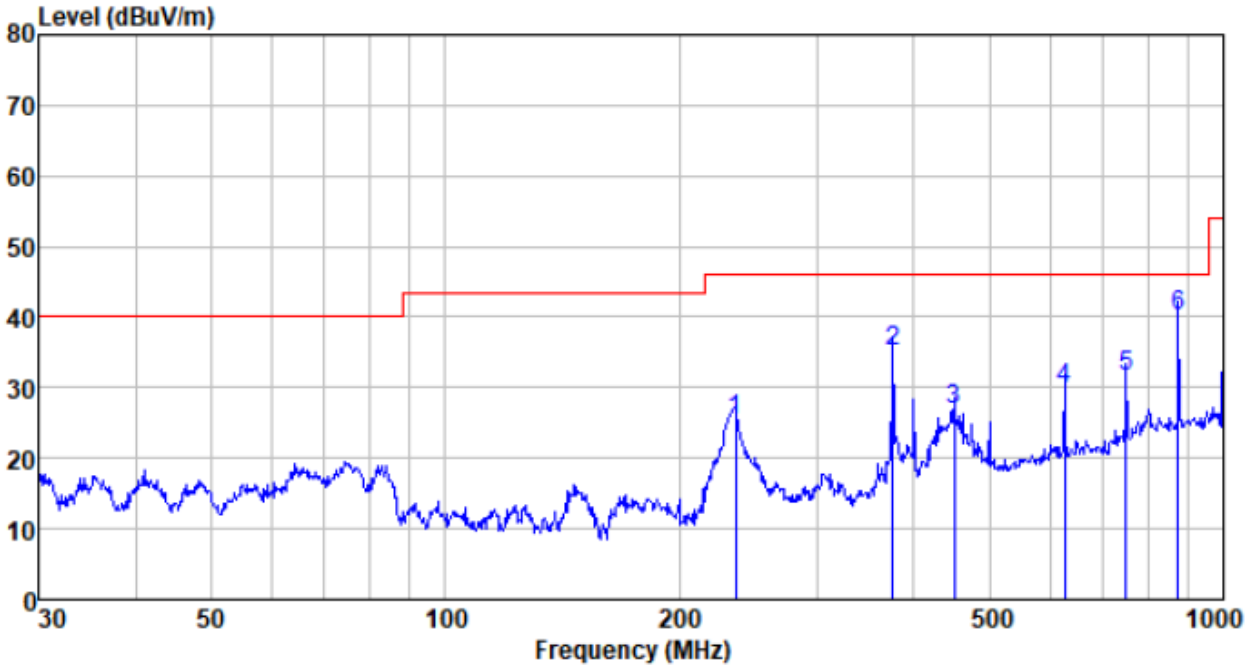
■ **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ **Below 1GHz**

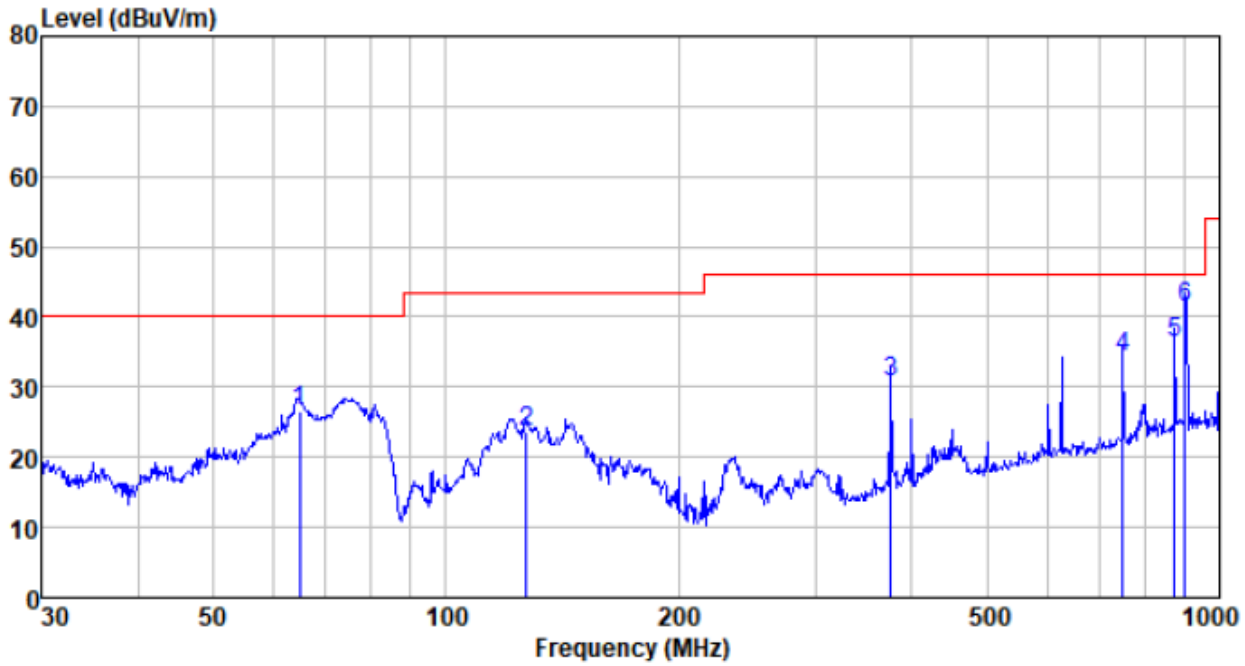
Pre-scan all test modes, found worst case at 802.11b 2462MHz, and so only show the test result of 802.11b 2462MHz

**Horizontal:**




| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|---|---|---|---|---|---|---|---|---|
| 235.816 | 48.92 | 11.71 | 2.05 | 37.37 | 25.31 | 46.00 | -20.69 | QP |
| 375.939 | 54.94 | 14.94 | 2.75 | 37.50 | 35.13 | 46.00 | -10.87 | QP |
| 451.135 | 44.80 | 16.40 | 3.09 | 37.51 | 26.78 | 46.00 | -19.22 | QP |
| 625.078 | 44.06 | 19.52 | 3.82 | 37.56 | 29.84 | 46.00 | -16.16 | QP |
| 750.108 | 44.30 | 20.53 | 4.28 | 37.62 | 31.49 | 46.00 | -14.51 | QP |
| 875.247 | 50.92 | 22.09 | 4.76 | 37.60 | 40.17 | 46.00 | -5.83 | QP |

**Vertical:**




| Freq MHz | Reading level dBuV | Antenna factor dB/m | Cable loss dB | Preamp factor dB | level dBuV/m | Limit level dBuV/m | Over limit dB | Remark |
|---|---|---|---|---|---|---|---|---|
| 64.659 | 52.57 | 9.46 | 0.90 | 36.38 | 26.55 | 40.00 | -13.45 | QP |
| 127.218 | 50.60 | 8.51 | 1.41 | 36.93 | 23.59 | 43.50 | -19.91 | QP |
| 375.939 | 50.51 | 14.94 | 2.75 | 37.50 | 30.70 | 46.00 | -15.30 | QP |
| 750.108 | 46.97 | 20.53 | 4.28 | 37.62 | 34.16 | 46.00 | -11.84 | QP |
| 875.247 | 47.15 | 22.09 | 4.76 | 37.60 | 36.40 | 46.00 | -9.60 | QP |
| 903.309 | 51.74 | 22.30 | 4.87 | 37.60 | 41.31 | 46.00 | -4.69 | QP |

■ **Above 1GHz**

| Test mode: | 802.11b | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| 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 | 39.29 | 31.79 | 8.62 | 32.10 | 47.60 | 74.00 | -26.40 | Vertical |
| 7236.00 | 33.59 | 36.19 | 11.68 | 31.97 | 49.49 | 74.00 | -24.51 | Vertical |
| 9648.00 | 32.26 | 38.07 | 14.16 | 31.56 | 52.93 | 74.00 | -21.07 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.12 | 31.79 | 8.62 | 32.10 | 46.43 | 74.00 | -27.57 | Horizontal |
| 7236.00 | 33.41 | 36.19 | 11.68 | 31.97 | 49.31 | 74.00 | -24.69 | Horizontal |
| 9648.00 | 31.87 | 38.07 | 14.16 | 31.56 | 52.54 | 74.00 | -21.46 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 | 28.45 | 31.79 | 8.62 | 32.10 | 36.76 | 54.00 | -17.24 | Vertical |
| 7236.00 | 22.47 | 36.19 | 11.68 | 31.97 | 38.37 | 54.00 | -15.63 | Vertical |
| 9648.00 | 22.63 | 38.07 | 14.16 | 31.56 | 43.30 | 54.00 | -10.70 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 27.71 | 31.79 | 8.62 | 32.10 | 36.02 | 54.00 | -17.98 | Horizontal |
| 7236.00 | 22.01 | 36.19 | 11.68 | 31.97 | 37.91 | 54.00 | -16.09 | Horizontal |
| 9648.00 | 21.64 | 38.07 | 14.16 | 31.56 | 42.31 | 54.00 | -11.69 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 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.*

| Test mode: | 802.11b | Test channel: | Middle |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4874.00 | 38.52 | 31.85 | 8.66 | 32.12 | 46.91 | 74.00 | -27.09 | Vertical |
| 7311.00 | 33.77 | 36.37 | 11.71 | 31.91 | 49.94 | 74.00 | -24.06 | Vertical |
| 9748.00 | 33.36 | 38.27 | 14.25 | 31.56 | 54.32 | 74.00 | -19.68 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 39.13 | 31.85 | 8.66 | 32.12 | 47.52 | 74.00 | -26.48 | Horizontal |
| 7311.00 | 32.47 | 36.37 | 11.71 | 31.91 | 48.64 | 74.00 | -25.36 | Horizontal |
| 9748.00 | 33.28 | 38.27 | 14.25 | 31.56 | 54.24 | 74.00 | -19.76 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4874.00 | 29.44 | 31.85 | 8.66 | 32.12 | 37.83 | 54.00 | -16.17 | Vertical |
| 7311.00 | 22.10 | 36.37 | 11.71 | 31.91 | 38.27 | 54.00 | -15.73 | Vertical |
| 9748.00 | 22.63 | 38.27 | 14.25 | 31.56 | 43.59 | 54.00 | -10.41 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 29.29 | 31.85 | 8.66 | 32.12 | 37.68 | 54.00 | -16.32 | Horizontal |
| 7311.00 | 21.57 | 36.37 | 11.71 | 31.91 | 37.74 | 54.00 | -16.26 | Horizontal |
| 9748.00 | 23.00 | 38.27 | 14.25 | 31.56 | 43.96 | 54.00 | -10.04 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 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.*

| Test mode: | 802.11b | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4924.00 | 43.45 | 31.90 | 8.70 | 32.15 | 51.90 | 74.00 | -22.10 | Vertical |
| 7386.00 | 34.06 | 36.49 | 11.76 | 31.83 | 50.48 | 74.00 | -23.52 | Vertical |
| 9848.00 | 36.38 | 38.62 | 14.31 | 31.77 | 57.54 | 74.00 | -16.46 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 42.98 | 31.90 | 8.70 | 32.15 | 51.43 | 74.00 | -22.57 | Horizontal |
| 7386.00 | 33.08 | 36.49 | 11.76 | 31.83 | 49.50 | 74.00 | -24.50 | Horizontal |
| 9848.00 | 32.60 | 38.62 | 14.31 | 31.77 | 53.76 | 74.00 | -20.24 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4924.00 | 34.48 | 31.90 | 8.70 | 32.15 | 42.93 | 54.00 | -11.07 | Vertical |
| 7386.00 | 24.01 | 36.49 | 11.76 | 31.83 | 40.43 | 54.00 | -13.57 | Vertical |
| 9848.00 | 24.91 | 38.62 | 14.31 | 31.77 | 46.07 | 54.00 | -7.93 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 33.42 | 31.90 | 8.70 | 32.15 | 41.87 | 54.00 | -12.13 | Horizontal |
| 7386.00 | 22.49 | 36.49 | 11.76 | 31.83 | 38.91 | 54.00 | -15.09 | Horizontal |
| 9848.00 | 21.88 | 38.62 | 14.31 | 31.77 | 43.04 | 54.00 | -10.96 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 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.*

| Test mode: | 802.11g | Test channel: | lowest |
|---|---|---|---|

**Peak value:**

| 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 | 39.81 | 31.79 | 8.62 | 32.10 | 48.12 | 74.00 | -25.88 | Vertical |
| 7236.00 | 33.91 | 36.19 | 11.68 | 31.97 | 49.81 | 74.00 | -24.19 | Vertical |
| 9648.00 | 32.49 | 38.07 | 14.16 | 31.56 | 53.16 | 74.00 | -20.84 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.55 | 31.79 | 8.62 | 32.10 | 46.86 | 74.00 | -27.14 | Horizontal |
| 7236.00 | 33.70 | 36.19 | 11.68 | 31.97 | 49.60 | 74.00 | -24.40 | Horizontal |
| 9648.00 | 32.09 | 38.07 | 14.16 | 31.56 | 52.76 | 74.00 | -21.24 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 | 28.93 | 31.79 | 8.62 | 32.10 | 37.24 | 54.00 | -16.76 | Vertical |
| 7236.00 | 22.79 | 36.19 | 11.68 | 31.97 | 38.69 | 54.00 | -15.31 | Vertical |
| 9648.00 | 22.85 | 38.07 | 14.16 | 31.56 | 43.52 | 54.00 | -10.48 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertica |
| 4824.00 | 28.11 | 31.79 | 8.62 | 32.10 | 36.42 | 54.00 | -17.58 | Horizontal |
| 7236.00 | 22.29 | 36.19 | 11.68 | 31.97 | 38.19 | 54.00 | -15.81 | Horizontal |
| 9648.00 | 21.84 | 38.07 | 14.16 | 31.56 | 42.51 | 54.00 | -11.49 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 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.*

| Test mode: | 802.11g | Test channel: | Middle |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4874.00 | 38.95 | 31.85 | 8.66 | 32.12 | 47.34 | 74.00 | -26.66 | Vertical |
| 7311.00 | 34.03 | 36.37 | 11.71 | 31.91 | 50.20 | 74.00 | -23.80 | Vertical |
| 9748.00 | 33.55 | 38.27 | 14.25 | 31.56 | 54.51 | 74.00 | -19.49 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 39.49 | 31.85 | 8.66 | 32.12 | 47.88 | 74.00 | -26.12 | Horizontal |
| 7311.00 | 32.71 | 36.37 | 11.71 | 31.91 | 48.88 | 74.00 | -25.12 | Horizontal |
| 9748.00 | 33.45 | 38.27 | 14.25 | 31.56 | 54.41 | 74.00 | -19.59 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4874.00 | 29.83 | 31.85 | 8.66 | 32.12 | 38.22 | 54.00 | -15.78 | Vertical |
| 7311.00 | 22.36 | 36.37 | 11.71 | 31.91 | 38.53 | 54.00 | -15.47 | Vertical |
| 9748.00 | 22.81 | 38.27 | 14.25 | 31.56 | 43.77 | 54.00 | -10.23 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 29.62 | 31.85 | 8.66 | 32.12 | 38.01 | 54.00 | -15.99 | Horizontal |
| 7311.00 | 21.80 | 36.37 | 11.71 | 31.91 | 37.97 | 54.00 | -16.03 | Horizontal |
| 9748.00 | 23.17 | 38.27 | 14.25 | 31.56 | 44.13 | 54.00 | -9.87 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 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.*

| Test mode: | 802.11g | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4924.00 | 44.18 | 31.90 | 8.70 | 32.15 | 52.63 | 74.00 | -21.37 | Vertical |
| 7386.00 | 34.53 | 36.49 | 11.76 | 31.83 | 50.95 | 74.00 | -23.05 | Vertical |
| 9848.00 | 36.71 | 38.62 | 14.31 | 31.77 | 57.87 | 74.00 | -16.13 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 43.60 | 31.90 | 8.70 | 32.15 | 52.05 | 74.00 | -21.95 | Horizontal |
| 7386.00 | 33.48 | 36.49 | 11.76 | 31.83 | 49.90 | 74.00 | -24.10 | Horizontal |
| 9848.00 | 32.91 | 38.62 | 14.31 | 31.77 | 54.07 | 74.00 | -19.93 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4924.00 | 35.15 | 31.90 | 8.70 | 32.15 | 43.60 | 54.00 | -10.40 | Vertical |
| 7386.00 | 24.46 | 36.49 | 11.76 | 31.83 | 40.88 | 54.00 | -13.12 | Vertical |
| 9848.00 | 25.23 | 38.62 | 14.31 | 31.77 | 46.39 | 54.00 | -7.61 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 34.00 | 31.90 | 8.70 | 32.15 | 42.45 | 54.00 | -11.55 | Horizontal |
| 7386.00 | 22.88 | 36.49 | 11.76 | 31.83 | 39.30 | 54.00 | -14.70 | Horizontal |
| 9848.00 | 22.18 | 38.62 | 14.31 | 31.77 | 43.34 | 54.00 | -10.66 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 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.*

| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|---|---|---|---|

**Peak value:**

| 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 | 39.43 | 31.79 | 8.62 | 32.10 | 47.74 | 74.00 | -26.26 | Vertical |
| 7236.00 | 33.67 | 36.19 | 11.68 | 31.97 | 49.57 | 74.00 | -24.43 | Vertical |
| 9648.00 | 32.33 | 38.07 | 14.16 | 31.56 | 53.00 | 74.00 | -21.00 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.24 | 31.79 | 8.62 | 32.10 | 46.55 | 74.00 | -27.45 | Horizontal |
| 7236.00 | 33.49 | 36.19 | 11.68 | 31.97 | 49.39 | 74.00 | -24.61 | Horizontal |
| 9648.00 | 31.93 | 38.07 | 14.16 | 31.56 | 52.60 | 74.00 | -21.40 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 | 28.58 | 31.79 | 8.62 | 32.10 | 36.89 | 54.00 | -17.11 | Vertical |
| 7236.00 | 22.56 | 36.19 | 11.68 | 31.97 | 38.46 | 54.00 | -15.54 | Vertical |
| 9648.00 | 22.69 | 38.07 | 14.16 | 31.56 | 43.36 | 54.00 | -10.64 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 27.82 | 31.79 | 8.62 | 32.10 | 36.13 | 54.00 | -17.87 | Horizontal |
| 7236.00 | 22.09 | 36.19 | 11.68 | 31.97 | 37.99 | 54.00 | -16.01 | Horizontal |
| 9648.00 | 21.69 | 38.07 | 14.16 | 31.56 | 42.36 | 54.00 | -11.64 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 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.*

| Test mode: | 802.11n(HT20) | Test channel: | Middle |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4874.00 | 38.64 | 31.85 | 8.66 | 32.12 | 47.03 | 74.00 | -26.97 | Vertical |
| 7311.00 | 33.84 | 36.37 | 11.71 | 31.91 | 50.01 | 74.00 | -23.99 | Vertical |
| 9748.00 | 33.41 | 38.27 | 14.25 | 31.56 | 54.37 | 74.00 | -19.63 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 39.23 | 31.85 | 8.66 | 32.12 | 47.62 | 74.00 | -26.38 | Horizontal |
| 7311.00 | 32.54 | 36.37 | 11.71 | 31.91 | 48.71 | 74.00 | -25.29 | Horizontal |
| 9748.00 | 33.33 | 38.27 | 14.25 | 31.56 | 54.29 | 74.00 | -19.71 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4874.00 | 29.55 | 31.85 | 8.66 | 32.12 | 37.94 | 54.00 | -16.06 | Vertical |
| 7311.00 | 22.17 | 36.37 | 11.71 | 31.91 | 38.34 | 54.00 | -15.66 | Vertical |
| 9748.00 | 22.68 | 38.27 | 14.25 | 31.56 | 43.64 | 54.00 | -10.36 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 29.38 | 31.85 | 8.66 | 32.12 | 37.77 | 54.00 | -16.23 | Horizontal |
| 7311.00 | 21.64 | 36.37 | 11.71 | 31.91 | 37.81 | 54.00 | -16.19 | Horizontal |
| 9748.00 | 23.05 | 38.27 | 14.25 | 31.56 | 44.01 | 54.00 | -9.99 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 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.*

| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|---|---|---|---|

**Peak value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4924.00 | 43.65 | 31.90 | 8.70 | 32.15 | 52.10 | 74.00 | -21.90 | Vertical |
| 7386.00 | 34.19 | 36.49 | 11.76 | 31.83 | 50.61 | 74.00 | -23.39 | Vertical |
| 9848.00 | 36.47 | 38.62 | 14.31 | 31.77 | 57.63 | 74.00 | -16.37 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 43.15 | 31.90 | 8.70 | 32.15 | 51.60 | 74.00 | -22.40 | Horizontal |
| 7386.00 | 33.19 | 36.49 | 11.76 | 31.83 | 49.61 | 74.00 | -24.39 | Horizontal |
| 9848.00 | 32.69 | 38.62 | 14.31 | 31.77 | 53.85 | 74.00 | -20.15 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

**Average value:**

| 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 |
|---|---|---|---|---|---|---|---|---|
| 4924.00 | 34.66 | 31.90 | 8.70 | 32.15 | 43.11 | 54.00 | -10.89 | Vertical |
| 7386.00 | 24.13 | 36.49 | 11.76 | 31.83 | 40.55 | 54.00 | -13.45 | Vertical |
| 9848.00 | 25.00 | 38.62 | 14.31 | 31.77 | 46.16 | 54.00 | -7.84 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 33.58 | 31.90 | 8.70 | 32.15 | 42.03 | 54.00 | -11.97 | Horizontal |
| 7386.00 | 22.60 | 36.49 | 11.76 | 31.83 | 39.02 | 54.00 | -14.98 | Horizontal |
| 9848.00 | 21.97 | 38.62 | 14.31 | 31.77 | 43.13 | 54.00 | -10.87 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 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.*

# 8 Test Setup Photo

Reference to the **appendix I** for details.

# 9 EUT Constructional Details

Reference to the **appendix II** for details.

------End------