

Global United Technology Services Co., Ltd.

Report No.: GTS16000831E01

FCC Report (WIFI)

Applicant: Shenzhen zhuoshuo electronic CO.,LTD.

Address of Applicant: 2 Floor, A Building, Xinxiong Industrial Park, Gushu No.1 Rd,

Baoan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Pico Smart Projector

Model No.: Ghost i800, N1

FCC ID: 2AIVNGHOSTI800

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2015

Date of sample receipt: June 15, 2016

Date of Test: June 16-21, 2016

Date of report issued: June 22, 2016

Test Result: PASS *

Authorized Signature:



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 GTS 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. Any mention of GTS or testing done by GTS in connection with, distribution or use of the product described in this report must be approved by GTS in writing.

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



2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | June 22, 2016 | Original |
| | | |
| | | |
| | | |
| | | |

| Prepared By: | Toger. Che | Date: | June 22, 2016 |
|--------------|------------------|-------|---------------|
| | Project Engineer | | |
| Check By: | Andy w | Date: | June 22, 2016 |
| | Reviewer | | |



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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement | 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| Channel 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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes | | | | |
|---|---|-------------------------|-------|--|--|--|--|
| Radiated Emission | 9kHz ~ 30MHz | ± 4.34dB | (1) | | | | |
| Radiated Emission | 30MHz ~ 1000MHz | ± 4.24dB | (1) | | | | |
| Radiated Emission | 1GHz ~ 26.5GHz | ± 4.68dB | (1) | | | | |
| AC Power Line Conducted Emission 0.15MHz ~ 30MHz ± 3.45dB | | | | | | | |
| Note (1): The measurement unce | Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. | | | | | | |

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5 General Information

5.1 Client Information

| Applicant: | Shenzhen zhuoshuo electronic CO.,LTD. |
|-------------------------------------|---|
| Address of Applicant: | 2 Floor, A Building, Xinxiong Industrial Park, Gushu No.1 Rd, Baoan District, Shenzhen, China |
| Manufacturer/Factory: | Shenzhen zhuoshuo electronic CO.,LTD. |
| Address of Manufacture/ Factory: | 2 Floor, A Building, Xinxiong Industrial Park, Gushu No.1 Rd, Baoan District, Shenzhen, China |

5.2 General Description of EUT

| Product Name: | Pico Smart Projector | |
|------------------------|---|--|
| Model No.: | Ghost i800, N1 | |
| Operation Frequency: | 802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz | |
| | 802.11n(HT40): 2422MHz~2452MHz | |
| Channel numbers: | 802.11b/802.11g /802.11n(HT20): 11 | |
| | 802.11n(HT40): 7 | |
| Channel separation: | 5MHz | |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS) | |
| | 802.11g/802.11n(H20)/802.11n(H40): | |
| | Orthogonal Frequency Division Multiplexing (OFDM) | |
| Antenna Type: | Integral antenna | |
| Antenna gain: | 0dBi(declare by Applicant) | |
| Power supply: | AC Adaptor: | |
| | Model No. : FJ-SW1203000 | |
| | Input: AC 100-240V, 50/60Hz 1.5A Max | |
| | Output: DC 12.0V, 3000mA | |
| | DC 3.7V Li-ion Battery | |



| 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: The frequencies band for 802.11n(HT40) are from channel 3 to channel 9.

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) | | |
|-----------------|-------------------------------|---------------|--|
| rest channel | 802.11b/802.11g/802.11n(HT20) | 802.11n(HT40) | |
| Lowest channel | 2412MHz | 2422MHz | |
| Middle channel | 2437MHz | 2437MHz | |
| Highest channel | 2462MHz | 2452MHz | |

5.3 Test mode

| Transmitting mode | Keep the EUT in continuously transmitting mode | (duty cycle>98%) |
|-------------------|--|--------------------|
|-------------------|--|--------------------|

Remark: During the test, 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:

Per-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) | 802.11n(HT40) |
|-----------|---------|---------|---------------|---------------|
| Data rate | 1Mbps | 6Mbps | 6.5Mbps | 13Mbps |

5.4 Description of Support Units

None.

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5.5 Test Facility

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

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-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road,

Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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 | Mar. 26 2016 | Mar. 27 2017 | |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A | |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | Dec. 03 2015 | Dec. 02 2016 | |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | June 30 2015 | June 29 2016 | |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June 30 2015 | June 29 2016 | |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June 26 2015 | June 25 2016 | |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 26 2016 | Mar. 25 2017 | |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Mar. 27 2016 | Mar. 26 2017 | |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Mar. 27 2016 | Mar. 26 2017 | |
| 11 | Coaxial cable | GTS | N/A | GTS210 | Mar. 27 2016 | Mar. 26 2017 | |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Mar. 27 2016 | Mar. 26 2017 | |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | June 30 2015 | June 29 2016 | |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | June 30 2015 | June 29 2016 | |
| 15 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 26 2015 | June 25 2016 | |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 27 2016 | Mar. 26 2017 | |
| 17 | Power Meter | Anritsu | ML2495A | GTS540 | June 30 2015 | June 29 2016 | |
| 18 | Power Sensor | Anritsu | MA2411B | GTS541 | June 30 2015 | June 29 2016 | |

| Con | Conducted Emission: | | | | | | | | | |
|------|---------------------|--------------------------------|----------------------|------------------|------------------------|----------------------------|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | | |
| 1 | Shielding Room | ZhongYu Electron | 7.0(L)x3.0(W)x3.0(H) | GTS264 | Sep. 06 2015 | Sep. 05 2016 | | | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | June 30 2015 | June 29 2016 | | | | |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | June 30 2015 | June 29 2016 | | | | |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June 30 2015 | June 29 2016 | | | | |
| 5 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | June 30 2015 | June 29 2016 | | | | |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | June 30 2015 | June 29 2016 | | | | |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | | | |

| Gen | General used equipment: | | | | | | | | | |
|------|-------------------------|--------------|-----------|------------------|------------------------|----------------------------|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | | |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | July 07 2015 | July 06 2016 | | | | |



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

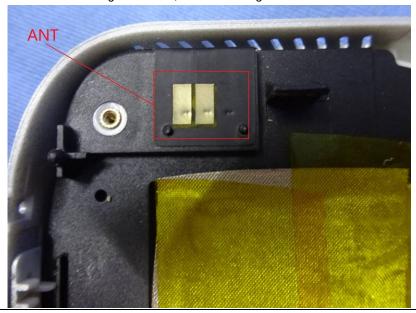
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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

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

EUT Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 0dBi





7.2 Conducted Emissions

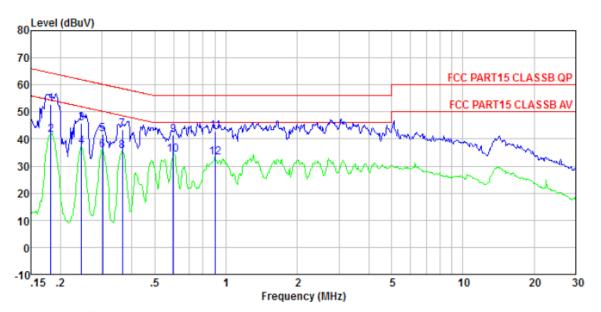
| Test Requirement: | FCC Part15 C Section 15.207 | | | | | |
|-----------------------|---|--|--|--|--|--|
| Test Method: | ANSI C63.10:2013 | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | |
| Class / Severity: | Class B | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sv | weep time=auto | | | | |
| Limit: | Frequency range (MHz) | Limit (c | 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 | n of the frequency. | | | | |
| Test setup: | Reference Plane | | _ | | | |
| | AUX Equipment E.U.T Test table/Insulation plane Remark: E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m | | | | | |
| Test procedure: | The E.U.T and simulators a line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are | n network (L.I.S.N.). Thedance for the measuri | nis provides a ing equipment. | | | |
| | LISN that provides a 50ohn | n/50uH coupling imped | lso connected to the main power through a 50uH coupling impedance with 50ohm the block diagram of the test setup and | | | |
| | 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 5.3 for details | | | | | |
| Test results: | Pass | | | | | |

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Measurement data

Line:



Site : Shielded room

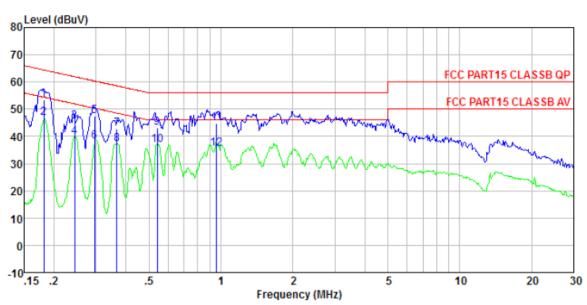
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0831 Test mode : WIFI mode Test Engineer: Sky

| | Freq | Read Level | Cable Loss | LISN Factor | Level | Limit Line | Over Limit | Remark |
|--------------------------------------|--|--|--|--|--|--|--|---|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 2 3 4 5 6 7 8 | 0. 182 0. 182 0. 246 0. 246 0. 302 0. 302 0. 365 0. 365 | 52. 58 41. 12 45. 69 37. 01 41. 71 35. 66 43. 11 35. 45 | 0.13 0.13 0.11 0.11 0.10 0.10 0.10 0.10 | 0.14 0.14 0.12 0.12 0.11 0.11 0.11 | 52. 85 41. 39 45. 92 37. 24 41. 92 35. 87 43. 32 35. 66 | 54.37 61.91 51.91 60.19 50.19 58.61 | -15.99 -14.67 -18.27 -14.32 -15.29 | Average QP Average QP Average |
| 9 | 0.598 | 41.10 | 0.12 | 0.13 | 41.35 | | -14.65 | _ |
| 10 | 0.598 | 34.01 | 0.12 | 0.13 | 34.26 | 46.00 | -11.74 | Average |
| 11 | 0.904 | 42.42 | 0.13 | 0.14 | 42.69 | | -13.31 | |
| 12 | 0.904 | 32.86 | 0.13 | 0.14 | 33.13 | 46.00 | -12.87 | Average |



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0831 Test mode : WIFI mode Test Engineer: Sky

| | Freq | Read Level | Cable Loss | LISN Factor | Level | Limit Line | Over Limit | Remark |
|----------|------------------|------------------|---------------|----------------|------------------|---------------|------------------|---------------|
| | MHz | dBuV | dB | dB | dBu₹ | dBuV | dB | |
| 1 2 | 0.182 0.182 | 53.30 46.46 | 0.13 0.13 | 0.07 0.07 | 53.50 46.66 | | -10.92 | QP Average |
| 3 | 0.244 | 45.32 | 0.11 | 0.06 | 45.49 | 61.95 | -16.46 | QP |
| 4 5 | 0. 244 0. 296 | 39.66 47.30 | 0.11 | 0.06 0.06 | 39.83 47.46 | 60.37 | -12.91 | |
| 6 7 | 0. 296 0. 367 | 38. 08 42. 49 | 0.10 0.10 | 0.06 0.06 | 38. 24 42. 65 | | -12.13 -15.91 | Average QP |
| 8 9 | 0.367 0.541 | 37.02 42.91 | 0.10 0.11 | 0.06 0.07 | 37.18 43.09 | | -11.38 -12.91 | Average QP |
| 10 11 | 0.541 0.958 | 36.61 44.74 | 0.11 0.13 | 0.07 0.07 | 36.79 44.94 | 46.00 | | Average |
| 12 | 0.958 | 35.34 | 0.13 | 0.07 | 35.54 | | | Äverage |

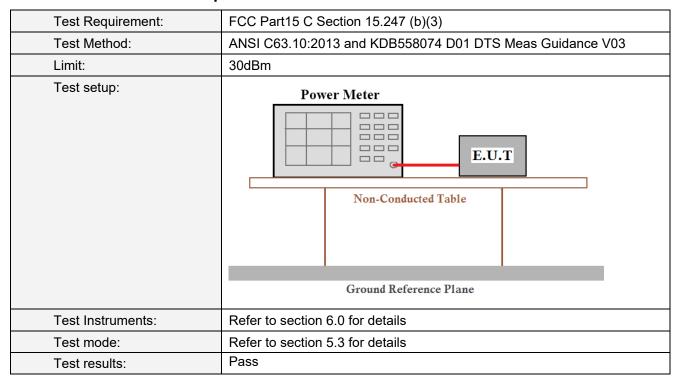
Notes:

- 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.

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7.3 Conducted Peak Output Power



Measurement Data

| Test CH | | Peak Outp | Limit(dBm) | Result | | |
|----------|---------|-----------|---------------|---------------|-------------|---------|
| 1631 011 | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit(abin) | rtesuit |
| Lowest | 16.27 | 13.39 | 12.38 | 8.23 | | |
| Middle | 15.81 | 12.92 | 13.37 | 9.09 | 30.00 | Pass |
| Highest | 14.25 | 11.49 | 10.29 | 7.49 | | |



7.4 Channel Bandwidth

| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) | | | |
|-------------------|---|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 | | | |
| Limit: | >500KHz | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| Test Instruments: | Refer to section 6.0 for details | | | |
| Test mode: | Refer to section 5.3 for details | | | |
| Test results: | Pass | | | |

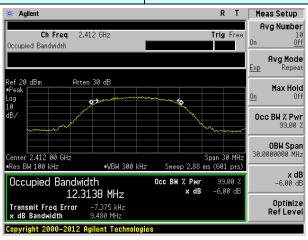
Measurement Data

| Test CH | | Limit(KHz) | Result | | | |
|----------|---------|------------|---------------|---------------|----------------|--------|
| 1631 011 | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Liiiii(IXI IZ) | Nesuit |
| Lowest | 9.480 | 16.086 | 16.332 | 36.502 | | |
| Middle | 9.385 | 15.199 | 16.338 | 35.578 | >500 | Pass |
| Highest | 9.601 | 15.163 | 16.337 | 36.135 | | |

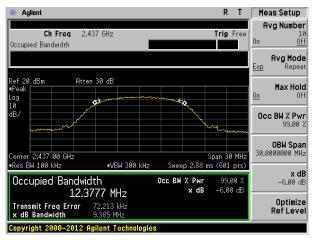
Test plot as follows:



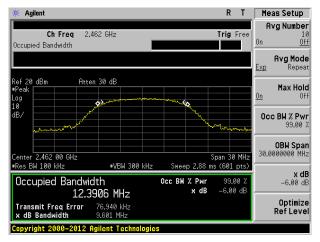
Test mode: 802.11b



Lowest channel



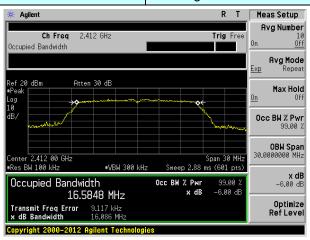
Middle channel



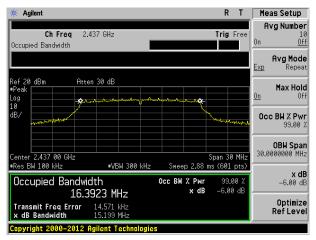
Highest channel



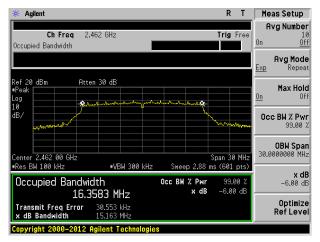
Test mode: 802.11g



Lowest channel



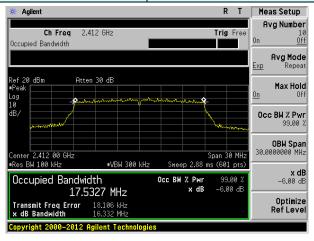
Middle channel



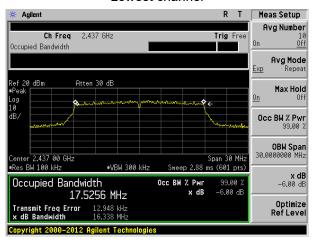
Highest channel



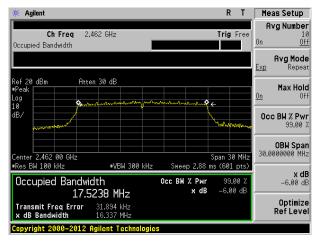
Test mode: 802.11n(HT20)



Lowest channel



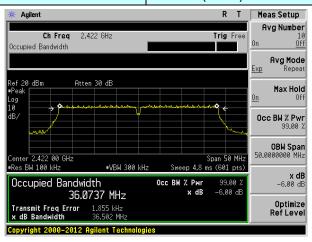
Middle channel



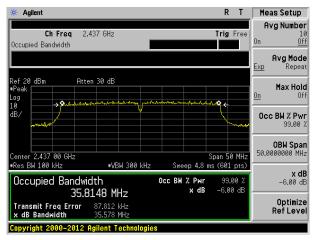
Highest channel



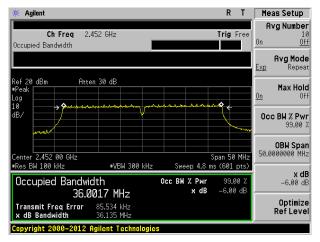
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

| Test Requirement: | FCC Part15 C Section 15.247 (e) | | | |
|-------------------|---|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 | | | |
| Limit: | 8dBm | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| Test Instruments: | Refer to section 6.0 for details | | | |
| Test mode: | Refer to section 5.3 for details | | | |
| Test results: | Pass | | | |

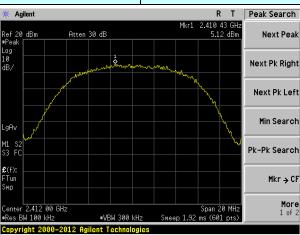
Measurement Data

| Test CH | | Power Sp | Limit(dBm/3kHz) | Result | | | |
|----------|---------|----------|-----------------|---------------|------------------|--------|--|
| Test CIT | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit(dbin/3KHZ) | Nesult | |
| Lowest | 5.12 | 1.68 | 0.53 | -5.43 | | | |
| Middle | 4.37 | 2.82 | 1.80 | -2.22 | 8.00 | Pass | |
| Highest | 2.81 | 0.14 | -1.20 | -6.24 | | | |

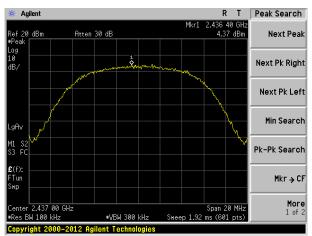


Test plot as follows:

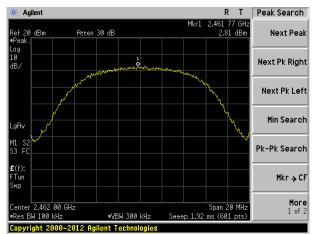
Test mode: 802.11b



Lowest channel



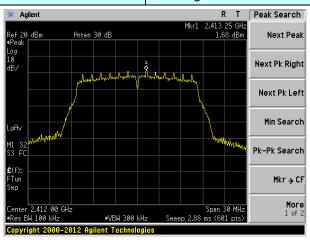
Middle channel



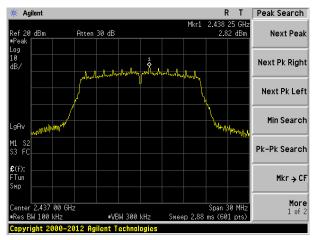
Highest channel



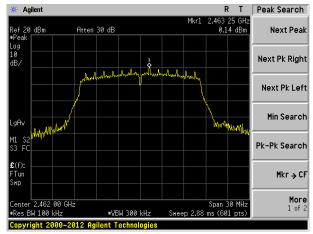
Test mode: 802.11g



Lowest channel



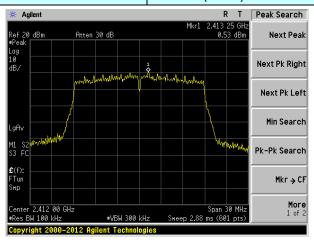
Middle channel



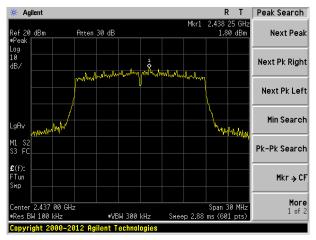
Highest channel



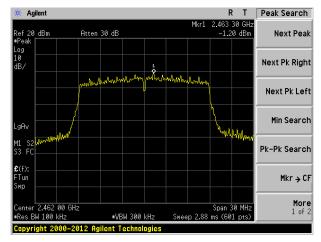
Test mode: 802.11n(HT20)



Lowest channel



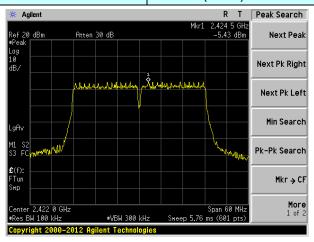
Middle channel



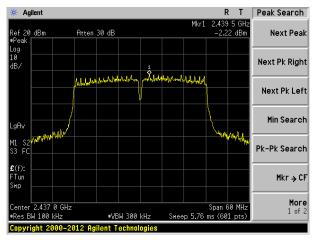
Highest channel



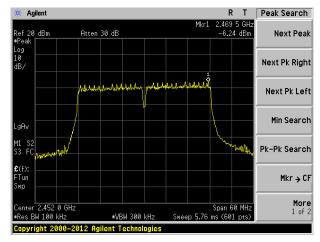
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



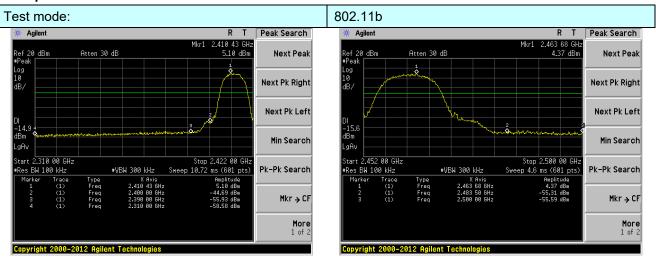
7.6 Band edges

7.6.1 Conducted Emission Method

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 | | | | |
| 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: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Pass | | | | |



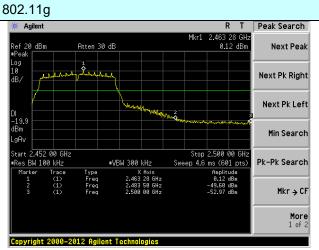
Test plot as follows:



Lowest channel

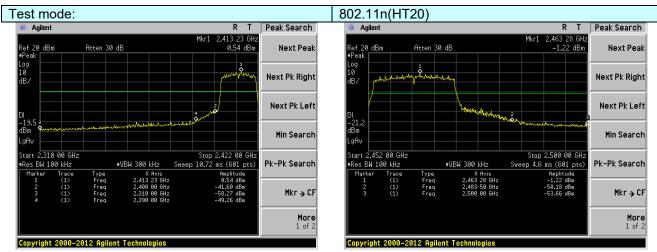
Highest channel

Lowest channel



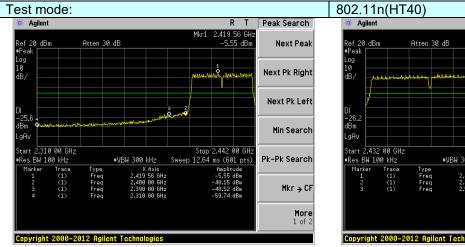
Highest channel



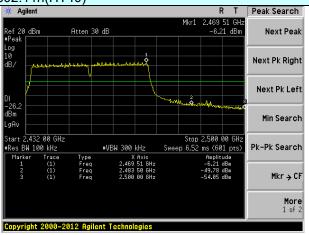


Lowest channel

Highest channel



Lowest channel



Highest channel



7.6.2 Radiated Emission Method

| 7.6.2 Radiated Emission Method | | | | | | | | |
|--------------------------------|--|--|-------------|-------------|---------|--|--|--|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | | |
| Test Method: | ANSI C63.10:20 | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | All of the restric | All of the restrict bands were tested, only the worst band's (2310MHz to | | | | | | |
| . , , | | 2500MHz) data was showed. | | | | | | |
| Test site: | Measurement D | istance: 3m | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | | |
| · | | Peak | 1MHz | 3MHz | Peak | | | |
| | Above 1GHz | RMS | 1MHz | 3MHz | Average | | | |
| Limit: | Freque | 1 | Limit (dBuV | | Value | | | |
| | | _ | 54.0 | | Average | | | |
| | Above 1 | GHz | 74.0 | | Peak | | | |
| Test setup: | Antenna Tower Horn Antenna Turn Table 1.5m Amplifier | | | | | | | |
| Test Procedure: | 1.5m V | | | | | | | |
| Test Instruments: | Refer to section | node is recorde 6.0 for details | | | | | | |
| Test mode: | Refer to section | | | | | | | |
| Test results: | Pass | 2,0 .2. 404410 | | | | | | |
| | 1 400 | | | | | | | |



Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

| | 802.1 | 1b | Te | est channel: | | Lowest | |
|-------------------------|---|--|--|--|---|---|---|
| | | | | | | | |
| Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | | i i imit | Polarization |
| 51.60 | 27.59 | 5.38 | 34.01 | 50.56 | 74.00 | -23.44 | Horizontal |
| 60.60 | 27.58 | 5.39 | 34.01 | 59.56 | 74.00 | -14.44 | Horizontal |
| 53.28 | 27.59 | 5.38 | 34.01 | 52.24 | 74.00 | -21.76 | Vertical |
| 62.38 | 27.58 | 5.39 | 34.01 | 61.34 | 74.00 | -12.66 | Vertical |
| lue: | | | | | | | |
| Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | | I I imit | Polarization |
| 38.38 | 27.59 | 5.38 | 34.01 | 37.34 | 54.00 | -16.66 | Horizontal |
| 46.67 | 27.58 | 5.39 | 34.01 | 45.63 | 54.00 | -8.37 | Horizontal |
| 40.19 | 27.59 | 5.38 | 34.01 | 39.15 | 54.00 | -14.85 | Vertical |
| 47.79 | 27.58 | 5.39 | 34.01 | 46.75 | 54.00 | -7.25 | Vertical |
| | | | | | | | |
| | 802.1 | 1b | Te | est channel: | | Highest | |
| | Read Level (dBuV) 51.60 60.60 53.28 62.38 due: Read Level (dBuV) 38.38 46.67 40.19 | Read Level (dBuV) (dB/m) 51.60 27.59 60.60 27.58 53.28 27.59 62.38 27.58 lue: Read Antenna Factor (dBuV) (dB/m) 38.38 27.59 46.67 27.58 40.19 27.59 47.79 27.58 | Read Level (dBuV) Antenna (dB/m) Cable Loss (dB/m) 51.60 27.59 5.38 60.60 27.58 5.39 53.28 27.59 5.38 62.38 27.58 5.39 Iue: Read Antenna Level Factor (dB/m) Cable Loss (dB/m) (dBuV) (dB/m) (dB) 38.38 27.59 5.38 46.67 27.58 5.39 40.19 27.59 5.38 | Read Level (dBuV) Antenna (dB/m) Cable (dB) Preamp Factor (dB) 51.60 27.59 5.38 34.01 60.60 27.58 5.39 34.01 53.28 27.59 5.38 34.01 62.38 27.58 5.39 34.01 lue: Read Level Factor (dBuV) Antenna Factor (dB) Preamp Factor (dB) (dB/m) (dB) (dB) 38.38 27.59 5.38 34.01 46.67 27.58 5.39 34.01 40.19 27.59 5.38 34.01 47.79 27.58 5.39 34.01 | Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) 51.60 27.59 5.38 34.01 50.56 60.60 27.58 5.39 34.01 59.56 53.28 27.59 5.38 34.01 52.24 62.38 27.58 5.39 34.01 61.34 lue: Read Level (dBuV) Antenna Factor (dB) Preamp Factor (dB) Level (dBuV/m) (dB) (dB) 34.01 37.34 46.67 27.58 5.39 34.01 39.15 47.79 27.58 5.39 34.01 39.15 47.79 27.58 5.39 34.01 46.75 | Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) 51.60 27.59 5.38 34.01 50.56 74.00 60.60 27.58 5.39 34.01 59.56 74.00 53.28 27.59 5.38 34.01 52.24 74.00 62.38 27.58 5.39 34.01 61.34 74.00 lue: Read Level (dBuV) Cable Factor (dB/m) Loss (dB) Level (dBuV/m) Limit Line (dBuV/m) 38.38 27.59 5.38 34.01 37.34 54.00 46.67 27.58 5.39 34.01 45.63 54.00 40.19 27.59 5.38 34.01 39.15 54.00 47.79 27.58 5.39 34.01 46.75 54.00 | Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) 51.60 27.59 5.38 34.01 50.56 74.00 -23.44 60.60 27.58 5.39 34.01 59.56 74.00 -21.76 53.28 27.59 5.38 34.01 52.24 74.00 -21.76 62.38 27.59 5.38 34.01 52.24 74.00 -21.76 62.38 27.58 5.39 34.01 61.34 74.00 -12.66 lue: Read Level (dBuV) Loss (dB/m) Preamp Factor (dB) Limit Line (dBuV/m) Over Limit (dB) (dB) 38.38 27.59 5.38 34.01 37.34 54.00 -16.66 46.67 27.58 5.39 34.01 39.15 54.00 -8.37 40.19 27.59 5.38 34.01 39.15 54.00 -7.25 47.79 27.58 5.39 |

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 | 52.24 | 27.53 | 5.47 | 33.92 | 51.32 | 74.00 | -22.68 | Horizontal |
| 2500.00 | 48.08 | 27.55 | 5.49 | 29.93 | 51.19 | 74.00 | -22.81 | Horizontal |
| 2483.50 | 54.49 | 27.53 | 5.47 | 33.92 | 53.57 | 74.00 | -20.43 | Vertical |
| 2500.00 | 50.58 | 27.55 | 5.49 | 29.93 | 53.69 | 74.00 | -20.31 | 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 | 38.73 | 27.53 | 5.47 | 33.92 | 37.81 | 54.00 | -16.19 | Horizontal |
| 2500.00 | 34.85 | 27.55 | 5.49 | 29.93 | 37.96 | 54.00 | -16.04 | Horizontal |
| 2483.50 | 40.68 | 27.53 | 5.47 | 33.92 | 39.76 | 54.00 | -14.24 | Vertical |
| 2500.00 | 36.72 | 27.55 | 5.49 | 29.93 | 39.83 | 54.00 | -14.17 | Vertical |

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.

 ${\it Xixiang Road, Baoan District, Shenzhen, Guangdong, China}$

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



802.11g

Test mode:

Report No.: GTS16000831E01

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 |
| 2390.00 | 50.80 | 27.59 | 5.38 | 34.01 | 49.76 | 74.00 | -24.24 | Horizontal |
| 2400.00 | 59.53 | 27.58 | 5.39 | 34.01 | 58.49 | 74.00 | -15.51 | Horizontal |
| 2390.00 | 52.42 | 27.59 | 5.38 | 34.01 | 51.38 | 74.00 | -22.62 | Vertical |
| 2400.00 | 61.10 | 27.58 | 5.39 | 34.01 | 60.06 | 74.00 | -13.94 | Vertical |
| Average va | lue: | | | • | | | | • |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 2390.00 | 37.81 | 27.59 | 5.38 | 34.01 | 36.77 | 54.00 | -17.23 | Horizontal |
| 2400.00 | 46.01 | 27.58 | 5.39 | 34.01 | 44.97 | 54.00 | -9.03 | Horizontal |
| 2390.00 | 39.56 | 27.59 | 5.38 | 34.01 | 38.52 | 54.00 | -15.48 | Vertical |
| 2400.00 | 47.07 | 27.58 | 5.39 | 34.01 | 46.03 | 54.00 | -7.97 | Vertical |
| | | | | | | | | • |
| Test mode: | | 802.1 | 1g | Tes | st channel: | H | lighest | |
| 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 | Polarization |
| 2483.50 | E4 00 | | | (GD) | (dbd v/iii) | , | (dB) | |
| | 51.09 | 27.53 | 5.47 | 33.92 | 50.17 | 74.00 | -23.83 | Horizontal |
| 2500.00 | 47.19 | 27.53 27.55 | 5.47 5.49 | ` ′ | , | | | Horizontal Horizontal |
| 2500.00 2483.50 | | | | 33.92 | 50.17 | 74.00 | -23.83 | |
| | 47.19 | 27.55 | 5.49 | 33.92 29.93 | 50.17 | 74.00 74.00 | -23.83 -23.70 | Horizontal |
| 2483.50 | 47.19 53.18 49.54 | 27.55 27.53 | 5.49 5.47 | 33.92 29.93 33.92 | 50.17 50.30 52.26 | 74.00 74.00 74.00 | -23.83 -23.70 -21.74 | Horizontal Vertical |
| 2483.50 2500.00 | 47.19 53.18 49.54 | 27.55 27.53 | 5.49 5.47 | 33.92 29.93 33.92 | 50.17 50.30 52.26 | 74.00 74.00 74.00 | -23.83 -23.70 -21.74 | Horizontal Vertical |
| 2483.50 2500.00 Average va Frequency | 47.19 53.18 49.54 Iue: Read Level | 27.55 27.53 27.55 Antenna Factor | 5.49 5.47 5.49 Cable Loss | 33.92 29.93 33.92 29.93 Preamp Factor | 50.17 50.30 52.26 52.65 | 74.00 74.00 74.00 74.00 Limit Line | -23.83 -23.70 -21.74 -21.35 Over Limit | Horizontal Vertical Vertical |
| 2483.50 2500.00 Average va Frequency (MHz) | 47.19 53.18 49.54 lue: Read Level (dBuV) | 27.55 27.53 27.55 Antenna Factor (dB/m) | 5.49 5.47 5.49 Cable Loss (dB) | 33.92 29.93 33.92 29.93 Preamp Factor (dB) | 50.17 50.30 52.26 52.65 Level (dBuV/m) | 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) | -23.83 -23.70 -21.74 -21.35 Over Limit (dB) | Horizontal Vertical Vertical Polarization |
| 2483.50 2500.00 Average va Frequency (MHz) 2483.50 | 47.19 53.18 49.54 lue: Read Level (dBuV) 38.04 | 27.55 27.53 27.55 Antenna Factor (dB/m) 27.53 | 5.49 5.47 5.49 Cable Loss (dB) 5.47 | 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92 | 50.17 50.30 52.26 52.65 Level (dBuV/m) | 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00 | -23.83 -23.70 -21.74 -21.35 Over Limit (dB) -16.88 | Horizontal Vertical Vertical Polarization Horizontal |

Test channel:

Global United Technology Services Co., Ltd.

1.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:

Peak value:

Report No.: GTS16000831E01

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 |
| 2390.00 | 50.76 | 27.59 | 5.38 | 34.01 | 49.72 | 74.00 | -24.28 | Horizontal |
| 2400.00 | 59.47 | 27.58 | 5.39 | 34.01 | 58.43 | 74.00 | -15.57 | Horizontal |
| 2390.00 | 52.37 | 27.59 | 5.38 | 34.01 | 51.33 | 74.00 | -22.67 | Vertical |
| 2400.00 | 61.02 | 27.58 | 5.39 | 34.01 | 59.98 | 74.00 | -14.02 | Vertical |
| Average va | lue: | • | | • | • | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 2390.00 | 37.77 | 27.59 | 5.38 | 34.01 | 36.73 | 54.00 | -17.27 | Horizontal |
| 2400.00 | 45.97 | 27.58 | 5.39 | 34.01 | 44.93 | 54.00 | -9.07 | Horizontal |
| 2390.00 | 39.52 | 27.59 | 5.38 | 34.01 | 38.48 | 54.00 | -15.52 | Vertical |
| 2400.00 | 47.03 | 27.58 | 5.39 | 34.01 | 45.99 | 54.00 | -8.01 | Vertical |
| | | | | | | | | |
| Test mode: | | 802.1 | 1n(HT20) | Te | st channel: | F | lighest | |
| 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 | 51.03 | 27.53 | 5.47 | 33.92 | 50.11 | 74.00 | -23.89 | Horizontal |
| 2500.00 | 47.14 | 27.55 | 5.49 | 29.93 | 50.25 | 74.00 | -23.75 | Horizontal |
| 2483.50 | 53.10 | 27.53 | 5.47 | 33.92 | 52.18 | 74.00 | -21.82 | Vertical |
| 2500.00 | 49.48 | 27.55 | 5.49 | 29.93 | 52.59 | 74.00 | -21.41 | Vertical |
| Average va | lue: | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 2483.50 | 38.00 | 27.53 | 5.47 | 33.92 | 37.08 | 54.00 | -16.92 | Horizontal |
| 2500.00 | 34.28 | 27.55 | 5.49 | 29.93 | 37.39 | 54.00 | -16.61 | Horizontal |
| 2483.50 | 39.87 | 27.53 | 5.47 | 33.92 | 38.95 | 54.00 | -15.05 | Vertical |
| 2500.00 | 36.12 | 27.55 | 5.49 | 29.93 | 39.23 | 54.00 | -14.77 | Vertical |
| Remark: | | | | | | | | |

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone,

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.

 ${\it Xixiang Road, Baoan District, Shenzhen, Guangdong, China}$

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Test mode:

Peak value:

Report No.: GTS16000831E01

Lowest

| reak 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 |
| 2390.00 | 50.11 | 27.59 | 5.38 | 34.01 | 49.07 | 74.00 | -24.93 | Horizontal |
| 2400.00 | 58.61 | 27.58 | 5.39 | 34.01 | 57.57 | 74.00 | -16.43 | Horizontal |
| 2390.00 | 51.69 | 27.59 | 5.38 | 34.01 | 50.65 | 74.00 | -23.35 | Vertical |
| 2400.00 | 59.99 | 27.58 | 5.39 | 34.01 | 58.95 | 74.00 | -15.05 | Vertical |
| Average va | lue: | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 2390.00 | 37.32 | 27.59 | 5.38 | 34.01 | 36.28 | 54.00 | -17.72 | Horizontal |
| 2400.00 | 45.44 | 27.58 | 5.39 | 34.01 | 44.40 | 54.00 | -9.60 | Horizontal |
| 2390.00 | 39.01 | 27.59 | 5.38 | 34.01 | 37.97 | 54.00 | -16.03 | Vertical |
| 2400.00 | 46.45 | 27.58 | 5.39 | 34.01 | 45.41 | 54.00 | -8.59 | Vertical |
| | | | | | • | | | |
| Test mode: | | 802.1 | 1n(HT40) | Tes | st channel: | H | lighest | |
| Peak value: | 1 | | | | | | | |
| 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 | 50.11 | 27.53 | 5.47 | 33.92 | 49.19 | 74.00 | -24.81 | Horizontal |
| 2500.00 | 46.43 | 27.55 | 5.49 | 29.93 | 49.54 | 74.00 | -24.46 | Horizontal |
| 2483.50 | 52.05 | 27.53 | 5.47 | 33.92 | 51.13 | 74.00 | -22.87 | Vertical |
| 2500.00 | 48.65 | 27.55 | 5.49 | 29.93 | 51.76 | 74.00 | -22.24 | Vertical |
| Average va | lue: | | | | | | | |
| 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 | 37.45 | 27.53 | 5.47 | 33.92 | 36.53 | 54.00 | -17.47 | Horizontal |
| 2500.00 | 33.84 | 27.55 | 5.49 | 29.93 | 36.95 | 54.00 | -17.05 | Horizontal |
| 2483.50 | 39.26 | 27.53 | 5.47 | 33.92 | 38.34 | 54.00 | -15.66 | Vertical |
| 2500.00 | 35.66 | 27.55 | 5.49 | 29.93 | 38.77 | 54.00 | -15.23 | Vertical |
| Remark: | | | | | | | | |

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

1.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone,

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.

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7.7 Spurious Emission

7.7.1 Conducted Emission Method

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | | |
|-------------------|---|--|--|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 | | | | | |
| 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: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | |
| Test results: | Pass | | | | | |

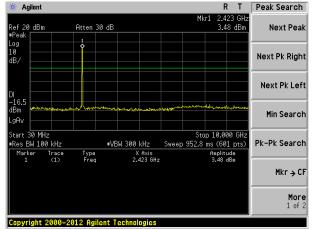


Test plot as follows:

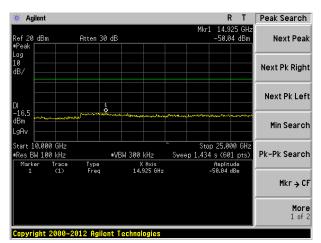
Test mode:

802.11b

Lowest channel

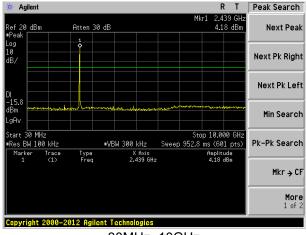


30MHz~10GHz

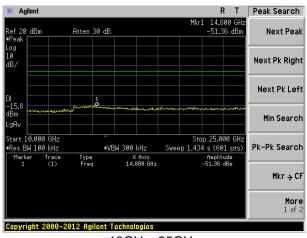


10GHz~25GHz

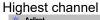
Middle channel

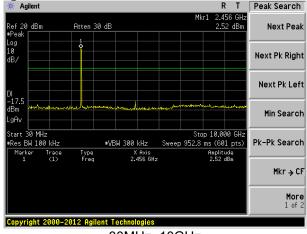


30MHz~10GHz

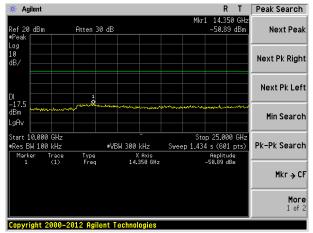


10GHz~25GHz





30MHz~10GHz



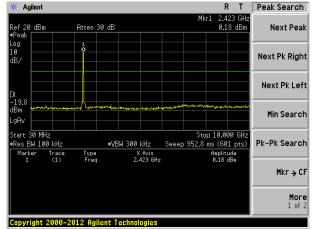
10GHz~25GHz



Test mode:

802.11g

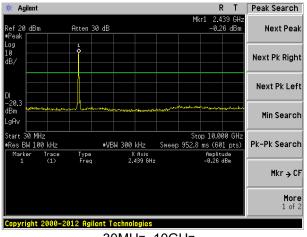
Lowest channel



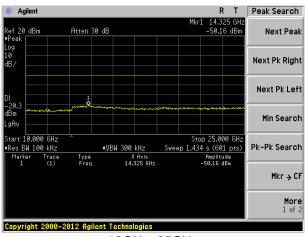
30MHz~10GHz

10GHz~25GHz

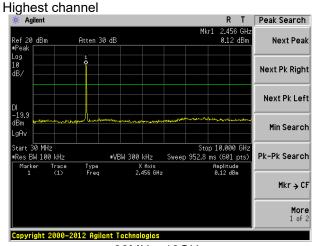
Middle channel



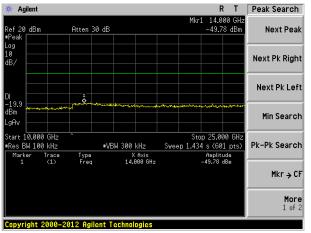
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

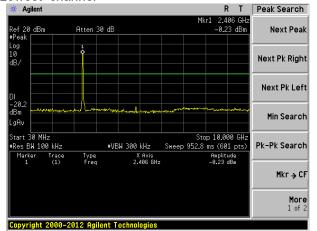


R T Peak Search

Test mode:

802.11n(HT20)

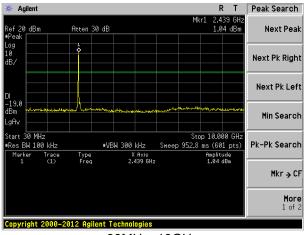
Lowest channel



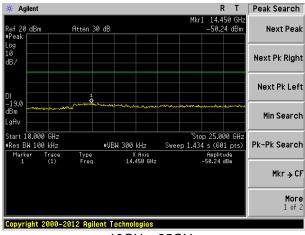
30MHz~10GHz

10GHz~25GHz

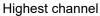
Middle channel

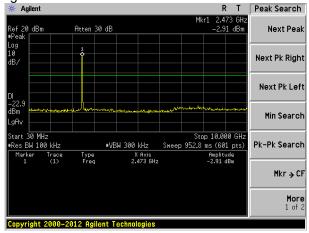


30MHz~10GHz

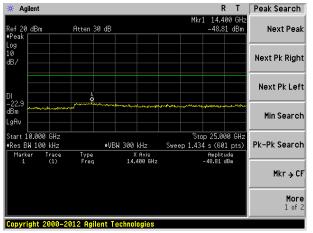


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

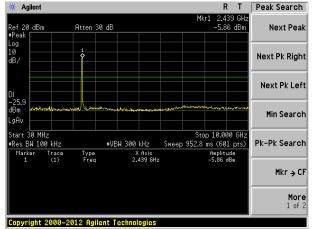
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Test mode:

802.11n(HT40)

Lowest channel

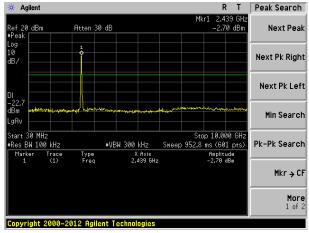


30MHz~10GHz

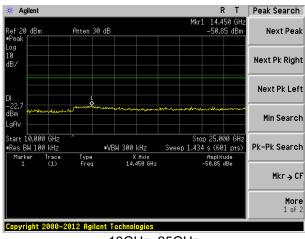
R T Peak Search 13.975 GH: -51.18 dBm Atten 30 dB Next Peak Ref 20 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GH: Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search Res BW 100 kHz Type Freq X fixis 13.975 GHz Amplitude -51.18 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

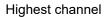
Middle channel

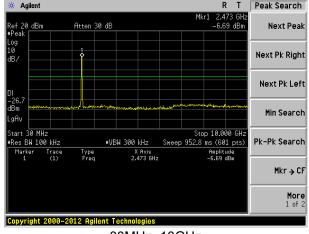


30MHz~10GHz

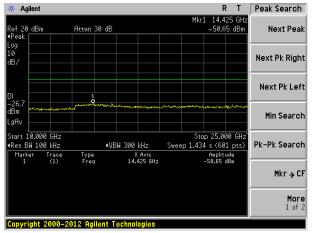


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

| Test Requirement: | FCC Part15 C Section 15.209 | | | | | | | | | | |
|-----------------------|--|-------------------------------------|--------------------|--------|----------------|--|--|--|--|--|--|
| Test Method: | ANSI C63.10:201 | 13 | | | | | | | | | |
| Test Frequency Range: | 30MHz to 25GHz | • | | | | | | | | | |
| Test site: | Measurement Dis | stance: 3m | | | | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | | | | | |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak | | | | | | |
| | Above 1CHz | Peak | 1MHz | 3MHz | Peak | | | | | | |
| | Above IGHZ | 30MHz-88MHz 40.00 Qu | | | | | | | | | |
| Limit: | Frequen | | | | | | | | | | |
| | 30MHz-88 | 30MHz-88MHz 40.00 Quasi-peak | | | | | | | | | |
| | 88MHz-216 | 6MHz | 43.5 | 0 | Quasi-peak | | | | | | |
| | 216MHz-96 | 0MHz | 46.0 | 0 | Quasi-peak | | | | | | |
| | 960MHz-1 | 960MHz-1GHz | | | | | | | | | |
| | Above 10 | 21.1- | 54.0 | 0 | Average | | | | | | |
| | Above 10 | Above 1GHz 54.00 Average 74.00 Peak | | | | | | | | | |
| | Tum 0.8m Table 0.8m Above 1GHz Above 1GHz | 4m | Antenna Horn Anten | | | | | | | | |
| Test Procedure: | 1. The EUT was | A . | Amplific | | Ome for heless | | | | | | |



| | , |
|-------------------|--|
| | 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. |
| | 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. |
| | 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 5.3 for details |
| Test results: | Pass |

Remark:

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

■ Below 1GHz

| - Below | · · · · · · | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 32.29 | 46.66 | 14.32 | 0.58 | 30.09 | 31.47 | 40.00 | -8.53 | Vertical |
| 62.65 | 39.36 | 13.63 | 0.88 | 29.90 | 23.97 | 40.00 | -16.03 | Vertical |
| 122.83 | 45.47 | 12.00 | 1.38 | 29.55 | 29.30 | 43.50 | -14.20 | Vertical |
| 248.55 | 38.89 | 14.07 | 2.12 | 29.63 | 25.45 | 46.00 | -20.55 | Vertical |
| 382.59 | 32.03 | 16.68 | 2.77 | 29.58 | 21.90 | 46.00 | -24.10 | Vertical |
| 647.39 | 29.42 | 20.62 | 3.91 | 29.25 | 24.70 | 46.00 | -21.30 | Vertical |
| 32.98 | 36.81 | 14.31 | 0.59 | 30.08 | 21.63 | 40.00 | -18.37 | Horizontal |
| 65.34 | 40.52 | 12.57 | 0.90 | 29.88 | 24.11 | 40.00 | -15.89 | Horizontal |
| 161.47 | 47.07 | 10.72 | 1.64 | 29.35 | 30.08 | 43.50 | -13.42 | Horizontal |
| 259.23 | 48.56 | 14.05 | 2.17 | 29.72 | 35.06 | 46.00 | -10.94 | Horizontal |
| 588.91 | 31.46 | 20.29 | 3.68 | 29.30 | 26.13 | 46.00 | -19.87 | Horizontal |
| 687.15 | 34.70 | 20.76 | 4.05 | 29.21 | 30.30 | 46.00 | -15.70 | Horizontal |



Above 1GHz

| Test mode: | | 802.11b | | Test | channel: | Lowe | st | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | <u>'</u> | | |
| 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 | 32.50 | 38.07 | 14.16 | 31.56 | 53.17 | 74.00 | -20.83 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.56 | 31.79 | 8.62 | 32.10 | 46.87 | 74.00 | -27.13 | 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 val | ue: | | | | | | | |
| 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 | | Vertical |
| 4824.00 | 28.12 | 31.79 | 8.62 | 32.10 | 36.43 | 54.00 | -17.57 | Horizontal |
| 7236.00 | 22.29 | 36.19 | 11.68 | 31.97 | 38.19 | 54.00 | -15.81 | Horizontal |
| 9648.00 | 21.85 | 38.07 | 14.16 | 31.56 | 42.52 | 54.00 | -11.48 | 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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11b | | T | est c | channel: | Mide | dle | |
|--------------------|-------------------------|-----------------------------|-----------------------|------------------------|-------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Pream Facto (dB) | r | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4874.00 | 38.95 | 31.85 | 8.66 | 32.12 | 2 | 47.34 | 74.00 | -26.66 | Vertical |
| 7311.00 | 34.04 | 36.37 | 11.71 | 31.9 | 1 | 50.21 | 74.00 | -23.79 | Vertical |
| 9748.00 | 33.55 | 38.27 | 14.25 | 31.56 | 3 | 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 | 2 | 47.88 | 74.00 | -26.12 | Horizontal |
| 7311.00 | 32.71 | 36.37 | 11.71 | 31.9 | 1 | 48.88 | 74.00 | -25.12 | Horizontal |
| 9748.00 | 33.46 | 38.27 | 14.25 | 31.56 | 3 | 54.42 | 74.00 | -19.58 | Horizontal |
| 12185.00 | * | | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Pream Facto (dB) | or | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4874.00 | 29.84 | 31.85 | 8.66 | 32.12 | 2 | 38.23 | 54.00 | -15.77 | Vertical |
| 7311.00 | 22.36 | 36.37 | 11.71 | 31.9 | 1 | 38.53 | 54.00 | -15.47 | Vertical |
| 9748.00 | 22.81 | 38.27 | 14.25 | 31.56 | 3 | 43.77 | 54.00 | -10.23 | Vertical |
| 12185.00 | * | | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | | 54.00 | | Vertical |
| 4874.00 | 29.63 | 31.85 | 8.66 | 32.12 | 2 | 38.02 | 54.00 | -15.98 | Horizontal |
| 7311.00 | 21.81 | 36.37 | 11.71 | 31.9 | 1 | 37.98 | 54.00 | -16.02 | Horizontal |
| 9748.00 | 23.18 | 38.27 | 14.25 | 31.56 | 3 | 44.14 | 54.00 | -9.86 | Horizontal |
| 12185.00 | * | | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | | 54.00 | | Horizontal |

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11b | | Test | channel: | High | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 44.20 | 31.90 | 8.70 | 32.15 | 52.65 | 74.00 | -21.35 | Vertical |
| 7386.00 | 34.53 | 36.49 | 11.76 | 31.83 | 50.95 | 74.00 | -23.05 | Vertical |
| 9848.00 | 36.72 | 38.62 | 14.31 | 31.77 | 57.88 | 74.00 | -16.12 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 43.61 | 31.90 | 8.70 | 32.15 | 52.06 | 74.00 | -21.94 | Horizontal |
| 7386.00 | 33.49 | 36.49 | 11.76 | 31.83 | 49.91 | 74.00 | -24.09 | 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 val | ue: | | | | | | | |
| 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 | 35.16 | 31.90 | 8.70 | 32.15 | 43.61 | 54.00 | -10.39 | 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 | 34.01 | 31.90 | 8.70 | 32.15 | 42.46 | 54.00 | -11.54 | Horizontal |
| 7386.00 | 22.89 | 36.49 | 11.76 | 31.83 | 39.31 | 54.00 | -14.69 | 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 |

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11g | | Test | channel: | lowes | st | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 39.53 | 31.79 | 8.62 | 32.10 | 47.84 | 74.00 | -26.16 | Vertical |
| 7236.00 | 33.74 | 36.19 | 11.68 | 31.97 | 49.64 | 74.00 | -24.36 | Vertical |
| 9648.00 | 32.37 | 38.07 | 14.16 | 31.56 | 53.04 | 74.00 | -20.96 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.32 | 31.79 | 8.62 | 32.10 | 46.63 | 74.00 | -27.37 | Horizontal |
| 7236.00 | 33.55 | 36.19 | 11.68 | 31.97 | 49.45 | 74.00 | -24.55 | Horizontal |
| 9648.00 | 31.97 | 38.07 | 14.16 | 31.56 | 52.64 | 74.00 | -21.36 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | • | • | | | • | |
| 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 | 28.67 | 31.79 | 8.62 | 32.10 | 36.98 | 54.00 | -17.02 | Vertical |
| 7236.00 | 22.62 | 36.19 | 11.68 | 31.97 | 38.52 | 54.00 | -15.48 | Vertical |
| 9648.00 | 22.73 | 38.07 | 14.16 | 31.56 | 43.40 | 54.00 | -10.60 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertica |
| 4824.00 | 27.90 | 31.79 | 8.62 | 32.10 | 36.21 | 54.00 | -17.79 | Horizontal |
| 7236.00 | 22.14 | 36.19 | 11.68 | 31.97 | 38.04 | 54.00 | -15.96 | Horizontal |
| 9648.00 | 21.73 | 38.07 | 14.16 | 31.56 | 42.40 | 54.00 | -11.60 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

- 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: | | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|-----|-------------------|-------------------|------------------|------|-----------------------|--------------|
| Peak value: | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | | amp ctor B) | Level (dBuV/m) | Limit I (dBu\ | | Over Limit (dB) | polarization |
| 4874.00 | 38.72 | 31.85 | 8.66 | 32. | 12 | 47.11 | 74.0 | 00 | -26.89 | Vertical |
| 7311.00 | 33.89 | 36.37 | 11.71 | 31. | 91 | 50.06 | 74.0 | 00 | -23.94 | Vertical |
| 9748.00 | 33.45 | 38.27 | 14.25 | 31. | 56 | 54.41 | 74.0 | 00 | -19.59 | Vertical |
| 12185.00 | * | | | | | | 74.0 | 00 | | Vertical |
| 14622.00 | * | | | | | | 74.0 | 00 | | Vertical |
| 17059.00 | * | | | | | | 74.0 | 00 | | Vertical |
| 4874.00 | 39.30 | 31.85 | 8.66 | 32. | 12 | 47.69 | 74.0 | 00 | -26.31 | Horizontal |
| 7311.00 | 32.58 | 36.37 | 11.71 | 31. | 91 | 48.75 | 74.0 | 00 | -25.25 | Horizontal |
| 9748.00 | 33.36 | 38.27 | 14.25 | 31. | 56 | 54.32 | 74.0 | 00 | -19.68 | Horizontal |
| 12185.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| 14622.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| 17059.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| Average val | | | | 1 | | , | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | | amp ctor B) | Level (dBuV/m) | Limit I (dBu\ | | Over Limit (dB) | polarization |
| 4874.00 | 29.62 | 31.85 | 8.66 | 32. | .12 | 38.01 | 54.0 | 00 | -15.99 | Vertical |
| 7311.00 | 22.22 | 36.37 | 11.71 | 31. | 91 | 38.39 | 54.0 | 00 | -15.61 | Vertical |
| 9748.00 | 22.71 | 38.27 | 14.25 | 31. | 56 | 43.67 | 54.0 | 00 | -10.33 | Vertical |
| 12185.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 14622.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 17059.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 4874.00 | 29.44 | 31.85 | 8.66 | 32. | .12 | 37.83 | 54.0 | 00 | -16.17 | Horizontal |
| 7311.00 | 21.68 | 36.37 | 11.71 | 31. | 91 | 37.85 | 54.0 | 00 | -16.15 | Horizontal |
| 9748.00 | 23.08 | 38.27 | 14.25 | 31. | 56 | 44.04 | 54.0 | 00 | -9.96 | Horizontal |
| 12185.00 | * | | | | | | 54.0 | 00 | | Horizontal |
| 14622.00 | * | | | | | | 54.0 | 00 | | Horizontal |
| 17059.00 | * | | | | | | 54.0 | 00 | | Horizontal |

Remark:

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^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11g | | | Test | channel: | | Highe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|----|-------------------|-------------------|----------------|-------|-----------------------|--------------|
| Peak value: | | | | ļ | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Fa | amp ctor B) | Level (dBuV/m) | Limit (dBu\ | | Over Limit (dB) | polarization |
| 4924.00 | 43.79 | 31.90 | 8.70 | 32 | .15 | 52.24 | 74. | 00 | -21.76 | Vertical |
| 7386.00 | 34.28 | 36.49 | 11.76 | 31 | .83 | 50.70 | 74. | 00 | -23.30 | Vertical |
| 9848.00 | 36.54 | 38.62 | 14.31 | 31 | .77 | 57.70 | 74. | 00 | -16.30 | Vertical |
| 12310.00 | * | | | | | | 74. | 00 | | Vertical |
| 14772.00 | * | | | | | | 74. | 00 | | Vertical |
| 17234.00 | * | | | | | | 74. | 00 | | Vertical |
| 4924.00 | 43.27 | 31.90 | 8.70 | 32 | .15 | 51.72 | 74. | 00 | -22.28 | Horizontal |
| 7386.00 | 33.26 | 36.49 | 11.76 | 31 | .83 | 49.68 | 74. | 00 | -24.32 | Horizontal |
| 9848.00 | 32.75 | 38.62 | 14.31 | 31 | .77 | 53.91 | 74. | 00 | -20.09 | 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) | Fa | amp ctor B) | Level (dBuV/m) | Limit (dBu\ | | Over Limit (dB) | polarization |
| 4924.00 | 34.79 | 31.90 | 8.70 | 32 | .15 | 43.24 | 54. | 00 | -10.76 | Vertical |
| 7386.00 | 24.22 | 36.49 | 11.76 | 31 | .83 | 40.64 | 54. | 00 | -13.36 | Vertical |
| 9848.00 | 25.06 | 38.62 | 14.31 | 31 | .77 | 46.22 | 54. | 00 | -7.78 | Vertical |
| 12310.00 | * | | | | | | 54. | 00 | | Vertical |
| 14772.00 | * | | | | | | 54. | 00 | | Vertical |
| 17234.00 | * | | | | | | 54. | 00 | | Vertical |
| 4924.00 | 33.69 | 31.90 | 8.70 | 32 | .15 | 42.14 | 54. | 00 | -11.86 | Horizontal |
| 7386.00 | 22.67 | 36.49 | 11.76 | 31 | .83 | 39.09 | 54. | 00 | -14.91 | Horizontal |
| 9848.00 | 22.02 | 38.62 | 14.31 | 31 | .77 | 43.18 | 54. | 00 | -10.82 | Horizontal |
| 12310.00 | * | | | | | | 54. | 00 | | Horizontal |
| 14772.00 | * | | | | | | 54. | 00 | | Horizontal |
| 17234.00 | * | | | | | | 54. | 00 | | Horizontal |

Remark:

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^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT20) | Test | channel: | Lowe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 39.24 | 31.79 | 8.62 | 32.10 | 47.55 | 74.00 | -26.45 | Vertical |
| 7236.00 | 33.55 | 36.19 | 11.68 | 31.97 | 49.45 | 74.00 | -24.55 | Vertical |
| 9648.00 | 32.24 | 38.07 | 14.16 | 31.56 | 52.91 | 74.00 | -21.09 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.07 | 31.79 | 8.62 | 32.10 | 46.38 | 74.00 | -27.62 | Horizontal |
| 7236.00 | 33.39 | 36.19 | 11.68 | 31.97 | 49.29 | 74.00 | -24.71 | Horizontal |
| 9648.00 | 31.85 | 38.07 | 14.16 | 31.56 | 52.52 | 74.00 | -21.48 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | | • |
| 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 | 28.41 | 31.79 | 8.62 | 32.10 | 36.72 | 54.00 | -17.28 | Vertical |
| 7236.00 | 22.44 | 36.19 | 11.68 | 31.97 | 38.34 | 54.00 | -15.66 | Vertical |
| 9648.00 | 22.60 | 38.07 | 14.16 | 31.56 | 43.27 | 54.00 | -10.73 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 27.67 | 31.79 | 8.62 | 32.10 | 35.98 | 54.00 | -18.02 | Horizontal |
| 7236.00 | 21.99 | 36.19 | 11.68 | 31.97 | 37.89 | 54.00 | -16.11 | Horizontal |
| 9648.00 | 21.62 | 38.07 | 14.16 | 31.56 | 42.29 | 54.00 | -11.71 | 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.

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| Test mode: | | 802.11n(H | T20) | Те | st channel: | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------|------------------------|-----------------------|--------------|
| Peak value: | | | | l e | | • | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | 1 1 6061 | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4874.00 | 38.48 | 31.85 | 8.66 | 32.12 | 46.87 | 74.00 | -27.13 | Vertical |
| 7311.00 | 33.74 | 36.37 | 11.71 | 31.91 | 49.91 | 74.00 | -24.09 | Vertical |
| 9748.00 | 33.34 | 38.27 | 14.25 | 31.56 | 54.30 | 74.00 | -19.70 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 39.09 | 31.85 | 8.66 | 32.12 | 47.48 | 74.00 | -26.52 | Horizontal |
| 7311.00 | 32.45 | 36.37 | 11.71 | 31.91 | 48.62 | 74.00 | -25.38 | Horizontal |
| 9748.00 | 33.26 | 38.27 | 14.25 | 31.56 | 54.22 | 74.00 | -19.78 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | 1 4//41 | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4874.00 | 29.40 | 31.85 | 8.66 | 32.12 | 37.79 | 54.00 | -16.21 | Vertical |
| 7311.00 | 22.07 | 36.37 | 11.71 | 31.91 | 38.24 | 54.00 | -15.76 | Vertical |
| 9748.00 | 22.61 | 38.27 | 14.25 | 31.56 | 43.57 | 54.00 | -10.43 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 29.25 | 31.85 | 8.66 | 32.12 | 37.64 | 54.00 | -16.36 | Horizontal |
| 7311.00 | 21.55 | 36.37 | 11.71 | 31.91 | 37.72 | 54.00 | -16.28 | Horizontal |
| 9748.00 | 22.99 | 38.27 | 14.25 | 31.56 | 43.95 | 54.00 | -10.05 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT20) | Test | channel: | Highe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 43.38 | 31.90 | 8.70 | 32.15 | 51.83 | 74.00 | -22.17 | Vertical |
| 7386.00 | 34.02 | 36.49 | 11.76 | 31.83 | 50.44 | 74.00 | -23.56 | Vertical |
| 9848.00 | 36.35 | 38.62 | 14.31 | 31.77 | 57.51 | 74.00 | -16.49 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 42.92 | 31.90 | 8.70 | 32.15 | 51.37 | 74.00 | -22.63 | Horizontal |
| 7386.00 | 33.04 | 36.49 | 11.76 | 31.83 | 49.46 | 74.00 | -24.54 | Horizontal |
| 9848.00 | 32.57 | 38.62 | 14.31 | 31.77 | 53.73 | 74.00 | -20.27 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | | |
| 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 | 34.41 | 31.90 | 8.70 | 32.15 | 42.86 | 54.00 | -11.14 | Vertical |
| 7386.00 | 23.97 | 36.49 | 11.76 | 31.83 | 40.39 | 54.00 | -13.61 | Vertical |
| 9848.00 | 24.88 | 38.62 | 14.31 | 31.77 | 46.04 | 54.00 | -7.96 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 33.36 | 31.90 | 8.70 | 32.15 | 41.81 | 54.00 | -12.19 | Horizontal |
| 7386.00 | 22.45 | 36.49 | 11.76 | 31.83 | 38.87 | 54.00 | -15.13 | Horizontal |
| 9848.00 | 21.86 | 38.62 | 14.31 | 31.77 | 43.02 | 54.00 | -10.98 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(HT40) | | | Test channel: | | | Lowe | st | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|---------------|-------------------|------------------------|------|-----------------------|--------------|
| 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 |
| 4844.00 | 39.11 | 31.81 | 8.63 | 32.11 | | 47.44 | 74.00 | | -26.56 | Vertical |
| 7266.00 | 33.47 | 36.28 | 11.69 | 31.94 | | 49.50 | 74.00 | | -24.50 | Vertical |
| 9688.00 | 32.18 | 38.13 | 14.21 | 31.52 | | 53.00 | 74.00 | | -21.00 | Vertical |
| 12060.00 | * | | | | | | 74. | 00 | | Vertical |
| 14472.00 | * | | | | | | 74. | 00 | | Vertical |
| 16884.00 | * | | | | | | 74. | 00 | | Vertical |
| 4844.00 | 37.97 | 31.81 | 8.63 | 32.11 | | 46.30 | 74. | 00 | -27.70 | Horizontal |
| 7266.00 | 33.32 | 36.28 | 11.69 | 31. | 94 | 49.35 | 74. | 00 | -24.65 | Horizontal |
| 9688.00 | 31.80 | 38.13 | 14.21 | 31.52 | | 52.62 | 74. | 00 | -21.38 | Horizontal |
| 12060.00 | * | | | | | | 74. | 00 | | Horizontal |
| 14472.00 | * | | | | | | 74. | 00 | | Horizontal |
| 16884.00 | * | | | | | | 74. | 00 | | Horizontal |

Average value:

| Average var | | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4844.00 | 28.29 | 31.81 | 8.63 | 32.11 | 36.62 | 54.00 | -17.38 | Vertical |
| 7266.00 | 22.37 | 36.28 | 11.69 | 31.94 | 38.40 | 54.00 | -15.60 | Vertical |
| 9688.00 | 22.55 | 38.13 | 14.21 | 31.52 | 43.37 | 54.00 | -10.63 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4844.00 | 27.57 | 31.81 | 8.63 | 32.11 | 35.90 | 54.00 | -18.10 | Horizontal |
| 7266.00 | 21.92 | 36.28 | 11.69 | 31.94 | 37.95 | 54.00 | -16.05 | Horizontal |
| 9688.00 | 21.57 | 38.13 | 14.21 | 31.52 | 42.39 | 54.00 | -11.61 | 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.

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| Test mode: | mode: 802.11n(HT40) Test channel: | | channel: | Middle | | | | | | |
|--------------------|-----------------------------------|-----------------------------|-----------------------|--------------------------|-------------------|-------------------|------------------------|----|-----------------------|--------------|
| Peak value: | | | | l | | | | | | |
| 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 | 38.38 | 31.85 | 8.66 | 32.12 | | 46.77 | 74.00 | | -27.23 | Vertical |
| 7311.00 | 33.67 | 36.37 | 11.71 | 31.91 | | 49.84 | 74.00 | | -24.16 | Vertical |
| 9748.00 | 33.29 | 38.27 | 14.25 | 31.56 | | 54.25 | 74.00 | | -19.75 | Vertical |
| 12185.00 | * | | | | | | 74.00 | | | Vertical |
| 14622.00 | * | | | | | | 74.00 | | | Vertical |
| 17059.00 | * | | | | | | 74.00 | | | Vertical |
| 4874.00 | 39.01 | 31.85 | 8.66 | 32. | .12 | 47.40 | 74.00 | | -26.60 | Horizontal |
| 7311.00 | 32.39 | 36.37 | 11.71 | 31. | .91 | 48.56 | 74.00 | | -25.44 | Horizontal |
| 9748.00 | 33.22 | 38.27 | 14.25 | 31.56 | | 54.18 | 74.00 | | -19.82 | Horizontal |
| 12185.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| 14622.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| 17059.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| Average val | | | T | 1 | | | | , | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Fac | amp ctor B) | Level (dBuV/m) | Limit I (dBu\ | | Over Limit (dB) | polarization |
| 4874.00 | 29.30 | 31.85 | 8.66 | 32. | .12 | 37.69 | 54.0 | 00 | -16.31 | Vertical |
| 7311.00 | 22.01 | 36.37 | 11.71 | 31. | .91 | 38.18 | 54.0 | 00 | -15.82 | Vertical |
| 9748.00 | 22.56 | 38.27 | 14.25 | 31. | .56 | 43.52 | 54.0 | 00 | -10.48 | Vertical |
| 12185.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 14622.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 17059.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 4874.00 | 29.17 | 31.85 | 8.66 | 32. | .12 | 37.56 | 54.0 | 00 | -16.44 | Horizontal |
| 7311.00 | 21.50 | 36.37 | 11.71 | 31. | .91 | 37.67 | 54.0 | 00 | -16.33 | Horizontal |
| 9748.00 | 22.94 | 38.27 | 14.25 | 31. | .56 | 43.90 | 54.0 | 00 | -10.10 | Horizontal |
| 12185.00 | * | | | | | | 54.0 | 00 | | Horizontal |
| 14622.00 | * | | | | | | 54.0 | 00 | | Horizontal |
| 17059.00 | * | | | | | | 54.0 | 00 | | Horizontal |

Remark:

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^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT40) | 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 |
| 4904.00 | 43.20 | 31.88 | 8.68 | 32.13 | 51.63 | 74.00 | -22.37 | Vertical |
| 7356.00 | 33.90 | 36.45 | 11.75 | 31.86 | 50.24 | 74.00 | -23.76 | Vertical |
| 9808.00 | 36.27 | 38.43 | 14.29 | 31.68 | 57.31 | 74.00 | -16.69 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4904.00 | 42.77 | 31.88 | 8.68 | 32.13 | 51.20 | 74.00 | -22.80 | Horizontal |
| 7356.00 | 32.94 | 36.45 | 11.75 | 31.86 | 49.28 | 74.00 | -24.72 | Horizontal |
| 9808.00 | 32.50 | 38.43 | 14.29 | 31.68 | 53.54 | 74.00 | -20.46 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | | • |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4904.00 | 34.25 | 31.88 | 8.68 | 32.13 | 42.68 | 54.00 | -11.32 | Vertical |
| 7356.00 | 23.86 | 36.45 | 11.75 | 31.86 | 40.20 | 54.00 | -13.80 | Vertical |
| 9808.00 | 24.80 | 38.43 | 14.29 | 31.68 | 45.84 | 54.00 | -8.16 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4904.00 | 33.22 | 31.88 | 8.68 | 32.13 | 41.65 | 54.00 | -12.35 | Horizontal |
| 7356.00 | 22.35 | 36.45 | 11.75 | 31.86 | 38.69 | 54.00 | -15.31 | Horizontal |
| 9808.00 | 21.78 | 38.43 | 14.29 | 31.68 | 42.82 | 54.00 | -11.18 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

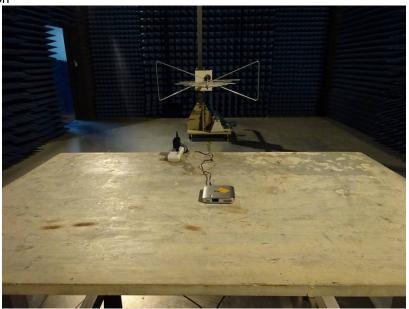
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

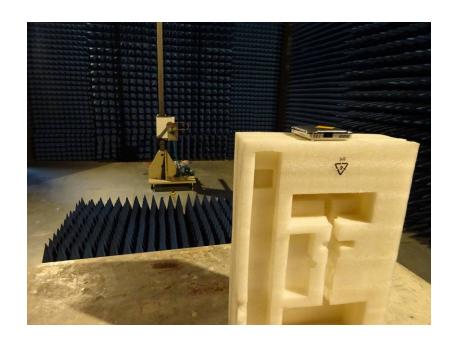
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







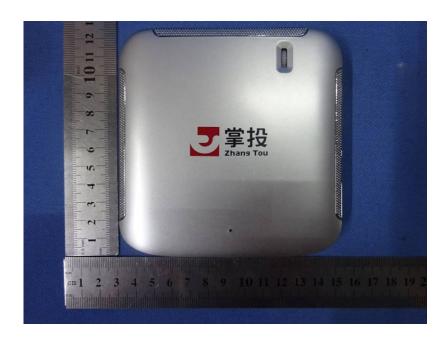
Conducted Emission



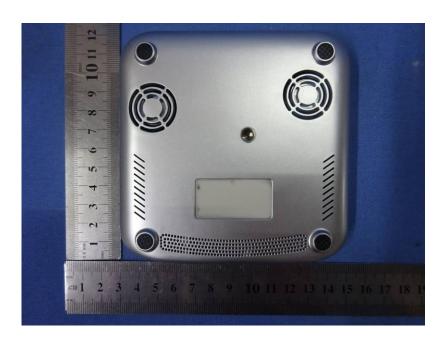


9 EUT Constructional Details















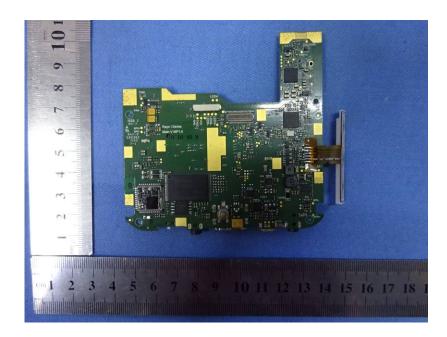


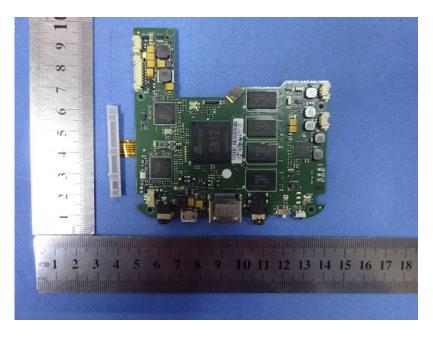




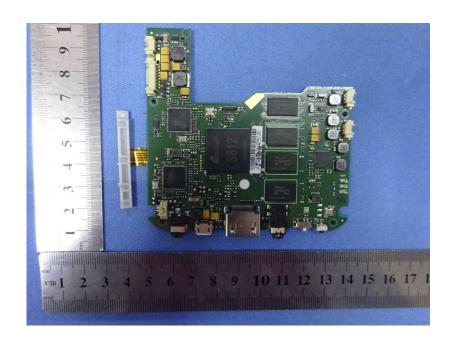


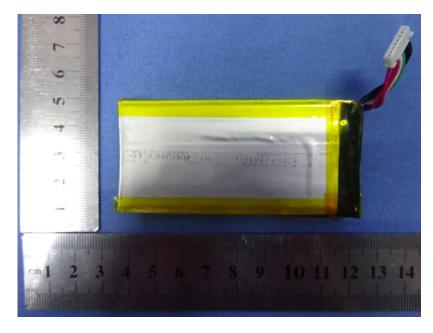




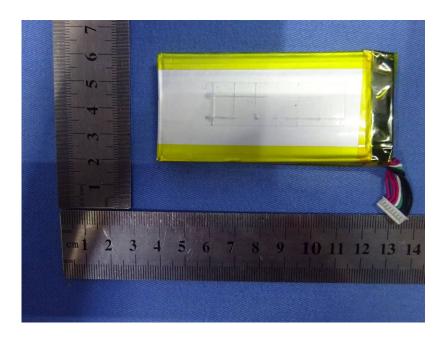












-----End-----