

Global United Technology Services Co., Ltd.

Report No.: GTSE14060094801

FCC REPORT

Applicant: SHENZHEN GIEC ELECTRONICS CO., LTD.

Address of Applicant: 24/F, Building A Xinian Center, No. 6021 Shennan Road,

Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: V10032, V10064, GK-MID1401

FCC ID: ZVRV1003264

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013

Date of sample receipt: 06 June, 2014

Date of Test: 06-23 June, 2014

Date of report issued: 23 June, 2014

Test Result: PASS *

Authorized Signature:

Robinson Lo
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 | 23 June, 2014 | Original |
| | | |
| | | |
| | | |
| | | |

| Prepared By: | Sam. Gao | Date: | 23 June, 2014 | |
|--------------|------------------|-------------|---------------|--|
| | Project Engineer | | | |
| Check By: | hank yar. | Date: | 23 June, 2014 | |
| | 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.

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5 General Information

5.1 Client Information

| Applicant: | SHENZHEN GIEC ELECTRONICS CO., LTD. | |
|--------------------------|---|--|
| Address of Applicant: | 24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen, Guangdong, China | |
| Manufacturer: | SHENZHEN GIEC ELECTRONICS CO., LTD. | |
| Address of Manufacturer: | 24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen, Guangdong, China | |
| Factory: | SHENZHEN GIEC ELECTRIC MANUFACTORY CO., LTD. | |
| Address of Factory: | No.1 Building, Factory, No.7 District, Dayang Development Areas, FuYong Street, Baoan, Shenzhen, Guangdong, China | |

5.2 General Description of EUT

| Product Name: | Tablet PC |
|------------------------|---|
| Model No.: | V10032, V10064, GK-MID1401 |
| 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 |
| | 802.11(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: | 2.00dBi (declare by Applicant) |
| Power supply: | Model No.: HB18-090200SPA |
| | Input: AC 100-240V, 50/60Hz, 0.5A |
| | Output: DC 9V, 2000mA |
| | Or |
| | 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:

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:

| Toot channel | Frequency (MHz) | | | |
|-----------------|-------------------------------|---------------|--|--|
| Test 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 |
|-------------------|--|
|-------------------|--|

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.

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• 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, July 20, 2010.

• Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

China

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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. 28 2014 | Mar. 27 2015 | |
| 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. 5, 2013 | Dec. 4, 2014 | |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | Jul. 02 2013 | Jul. 01 2014 | |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | Feb. 23 2014 | Feb. 22 2015 | |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June 28 2013 | June 27 2014 | |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 28 2014 | Mar. 27 2015 | |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Mar. 29 2014 | Mar. 28 2015 | |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Mar. 29 2014 | Mar. 28 2015 | |
| 11 | Coaxial cable | GTS | N/A | GTS210 | Mar. 29 2014 | Mar. 28 2015 | |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Mar. 29 2014 | Mar. 28 2015 | |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | Jul. 02 2013 | Jul. 01 2014 | |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | Jul. 02 2013 | Jul. 01 2014 | |
| 15 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 28 2013 | June 27 2014 | |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 29 2014 | Mar. 28 2015 | |

| 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. 07 2013 | Sep. 06 2014 | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | Jul. 02 2013 | Jul. 01 2014 | | |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | Jul. 02 2013 | Jul. 01 2014 | | |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | Jul. 02 2013 | Jul. 01 2014 | | |
| 5 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | Jul. 02 2013 | Jul. 01 2014 | | |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | Jul. 02 2013 | Jul. 01 2014 | | |
| 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 09 2013 | July 08 2014 | | |



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.

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2.0dBi



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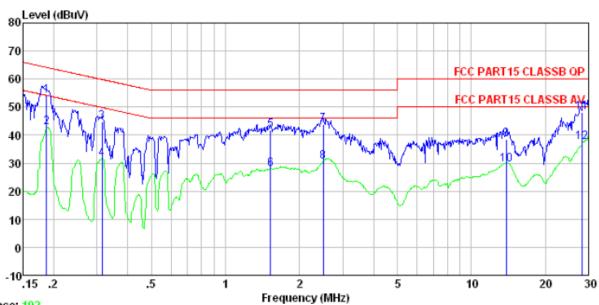
7.2 Conducted Emissions

| Test Requirement: | FCC Part15 C Section 15.207 | , | | | | |
|-----------------------|---|-----------------|-----------------|--|--|--|
| Test Method: | ANSI C63.4:2003 | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | |
| | | | | | | |
| Class / Severity: | Class B | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sv | | | | | |
| Limit: | Frequency range (MHz) | Limit (c | | | | |
| | | Quasi-peak | Average | | | |
| | 0.15-0.5 0.5-5 | 66 to 56* 56 | 56 to 46* 46 | | | |
| | 5-30 | 60 | 50 | | | |
| | * Decreases with the logarithm | | | | | |
| 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 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. 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). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | |
| Test results: | Pass | | | | | |
| | 1 | | | | | |



Measurement data

Line:



Trace: 192

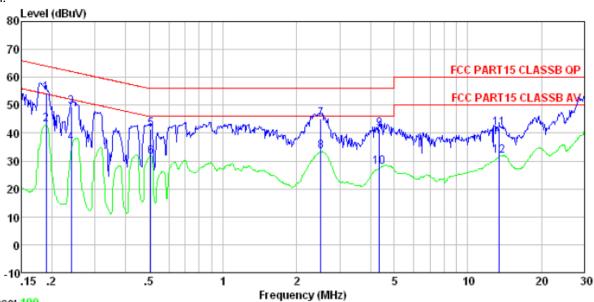
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0948RF Test mode : WIFI mode Test Engineer: Qing

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|-------------|--------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dBuV | dB | d₿ | dBu₹ | dBuV | dB | |
| 1 | 0.187 | 53.97 | 0.14 | 0.13 | 54.24 | 64.15 | -9.91 | QP |
| 2 3 | 0.187 | 42.46 | 0.14 | 0.13 | 42.73 | 54.15 | -11.42 | Average |
| | 0.315 | 44.43 | 0.11 | 0.10 | 44.64 | 59.84 | -15.20 | QP |
| 4 5 6 | 0.315 | 31.47 | 0.11 | 0.10 | 31.68 | 49.84 | -18.16 | Average |
| 5 | 1.527 | 41.59 | 0.12 | 0.14 | 41.85 | 56.00 | -14.15 | QP |
| 6 | 1.527 | 27.45 | 0.12 | 0.14 | 27.71 | 46.00 | -18.29 | Average |
| 7 | 2.500 | 43.59 | 0.13 | 0.15 | 43.87 | 56.00 | -12.13 | QP |
| 8 | 2.500 | 30.12 | 0.13 | 0.15 | 30.40 | 46.00 | -15.60 | Average |
| 9 | 13.841 | 38.12 | 0.30 | 0.22 | 38.64 | 60.00 | -21.36 | QP |
| 10 | 13.841 | 29.14 | 0.30 | 0.22 | 29.66 | 50.00 | -20.34 | Average |
| 11 | 28.302 | 47.03 | 0.84 | 0.24 | 48.11 | 60.00 | -11.89 | QP |
| 12 | 28.302 | 36.46 | 0.84 | 0.24 | 37.54 | 50.00 | -12.46 | Average |



Neutral:



Trace: 190

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0948RF Test mode : WIFI mode Test Engineer: Qing

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|--|--|---|---|--|---|--|---|
| | MHz | dBuV | dB | d₿ | dBuV | dBuV | dB | |
| 1 2 3 4 5 6 7 8 9 | 0. 189 0. 189 0. 240 0. 240 0. 507 0. 507 2. 513 2. 513 4. 361 | 54. 33 42. 86 49. 35 36. 39 41. 22 31. 18 45. 01 33. 12 41. 23 27. 69 | 0. 07 0. 07 0. 06 0. 06 0. 06 0. 10 0. 10 0. 15 0. 15 | 0. 13 0. 13 0. 12 0. 12 0. 11 0. 11 0. 15 0. 15 0. 15 | 54. 53 43. 06 49. 53 36. 57 41. 39 31. 35 45. 26 33. 37 41. 53 27. 99 | 54.06 62.08 52.08 56.00 46.00 56.00 46.00 56.00 46.00 | -12.55 -15.51 -14.61 -14.65 -10.74 -12.63 -14.47 -18.01 | Average QP Average QP Average QP Average QP Average |
| 11 12 | 13. 408 13. 408 | 41.33 31.36 | 0.32 0.32 | 0. 21 0. 21 | 41.86 31.89 | | -18. 14 -18. 11 | QP 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



7.3 Conducted Peak Output Power

| Toot Doguiroment | FCC Port15 C Section 15 247 (b)(2) | | |
|-------------------|---|--|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) | | |
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03 | | |
| Limit: | 30dBm | | |
| 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

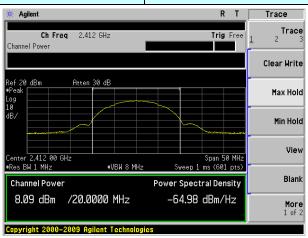
| Test CH | | Peak Outp | Limit(dBm) | Result | | |
|----------|---------|-----------|---------------|---------------|-------------|--------|
| 1631 011 | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit(abin) | Nesuit |
| Lowest | 8.09 | 7.54 | 7.00 | 6.04 | | Pass |
| Middle | 8.06 | 7.56 | 6.96 | 6.04 | 30.00 | |
| Highest | 8.05 | 7.45 | 6.92 | 5.94 | | |

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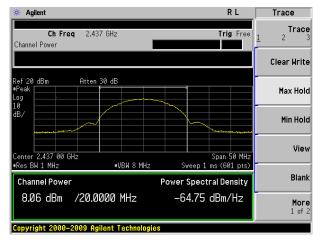


Test plot as follows:

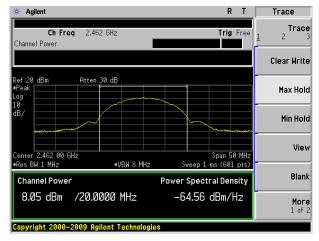
Test mode: 802.11b



Lowest channel



Middle channel

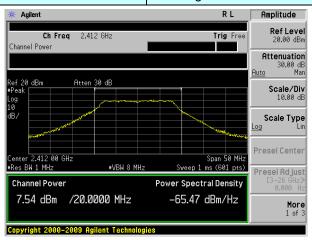


Highest channel

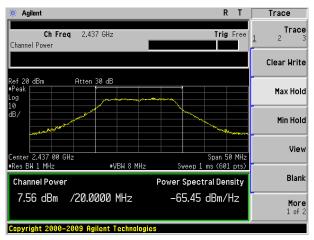
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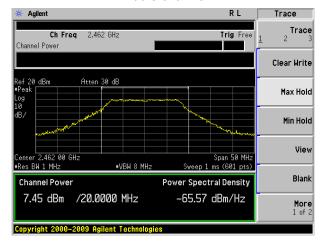
Test mode: 802.11g



Lowest channel



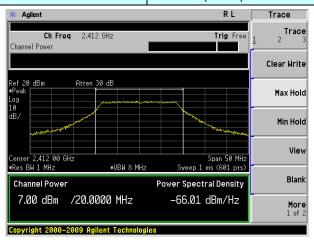
Middle channel



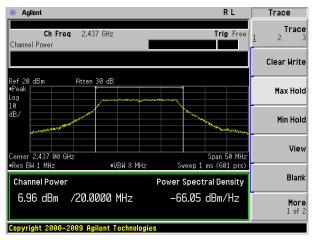
Highest channel



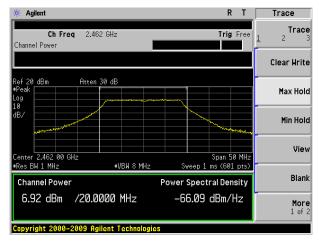
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

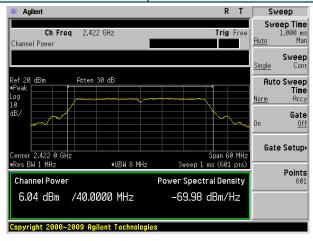


Highest channel

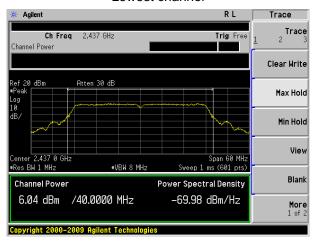
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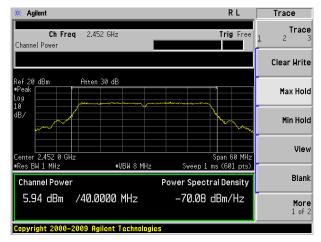
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.4 Channel Bandwidth

| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) | | |
|-------------------|---|--|--|
| Test Method: | ANSI C63.4:2003 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 | | Channel Ban | Limit(KHz) | Result | | |
|----------|---------|-------------|---------------|---------------|---------------|--------|
| Test CIT | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Lillit(Ki iz) | Nesuit |
| Lowest | 10.121 | 16.639 | 17.883 | 36.508 | | Pass |
| Middle | 10.129 | 16.635 | 17.905 | 36.516 | >500 | |
| Highest | 10.127 | 16.599 | 16.632 | 36.490 | | |

Test plot as follows:

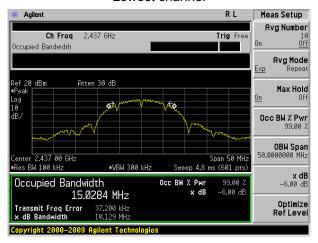
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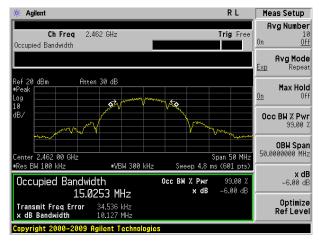
Test mode: 802.11b



Lowest channel



Middle channel

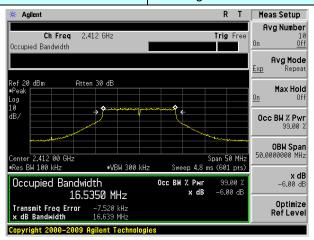


Highest channel

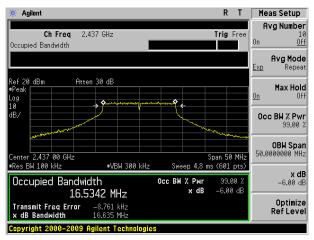
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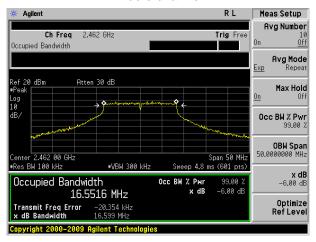
Test mode: 802.11g



Lowest channel



Middle channel



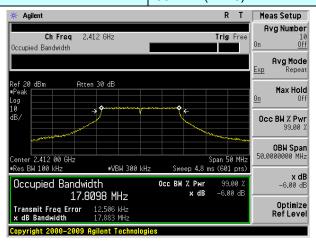
Highest channel

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

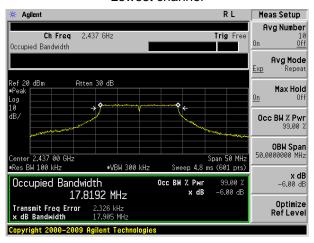


Project No.: GTSE140600948RF

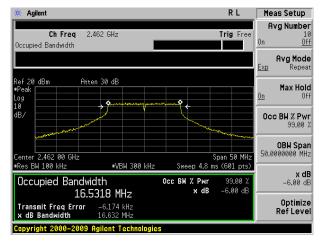
Test mode: 802.11n(HT20)



Lowest channel



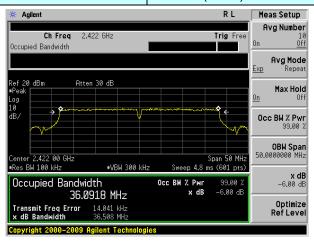
Middle channel



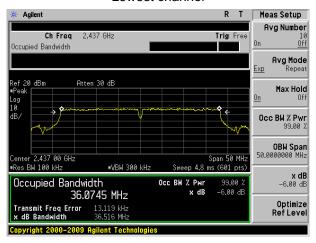
Highest channel



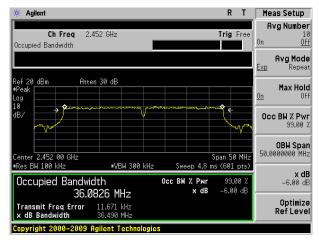
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

| Test Requirement: | FCC Part15 C Section 15.247 (e) |
|-------------------|---|
| Test Method: | ANSI C63.4:2003 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 Spectra | Limit(dBm/3kHz) | Result | | |
|---------|---------|---------------|-----------------|---------------|-----------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit(dBm/3Km2) | Result |
| Lowest | -5.15 | -4.44 | -5.65 | -9.49 | | Pass |
| Middle | -5.41 | -4.27 | -5.48 | -9.13 | 8.00 | |
| Highest | -5.53 | -4.26 | -5.39 | -9.34 | | |

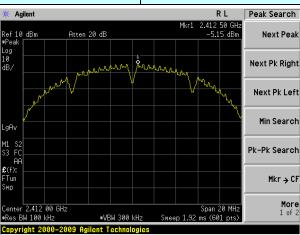
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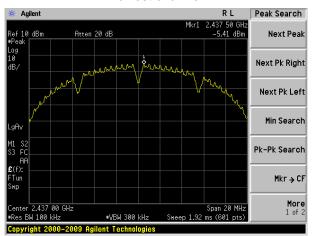
Project No.: GTSE140600948RF

Test plot as follows:

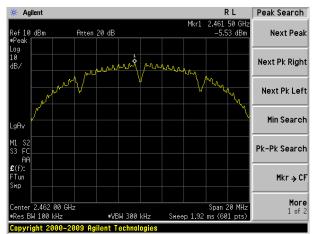
Test mode: 802.11b



Lowest channel



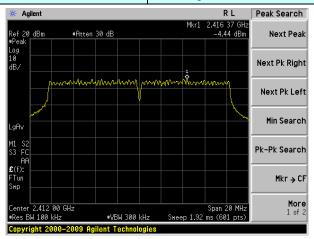
Middle channel



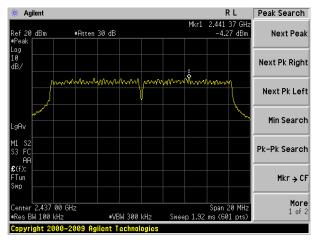
Highest channel



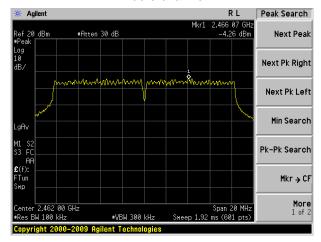
Test mode: 802.11g



Lowest channel



Middle channel

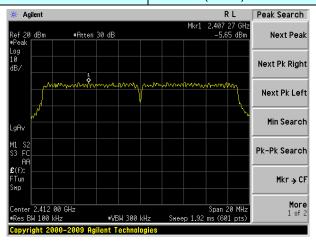


Highest channel

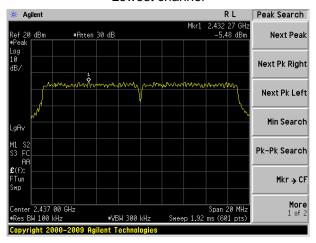
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



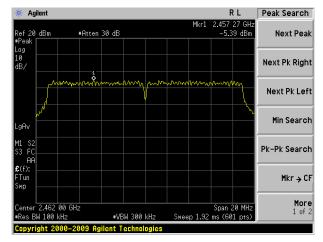
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

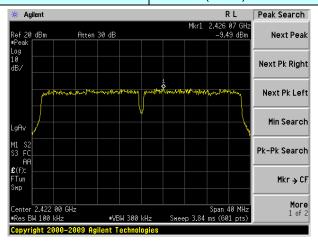


Highest channel

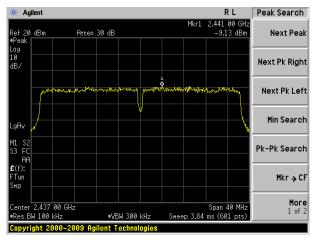
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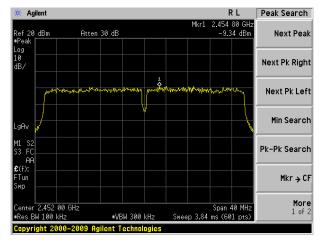
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.6 Band edges

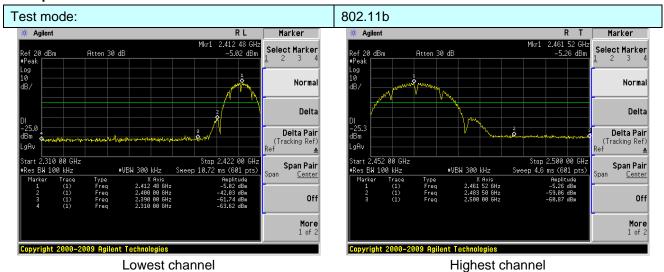
7.6.1 Conducted Emission Method

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | ANSI C63.4:2003 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 | | | | |

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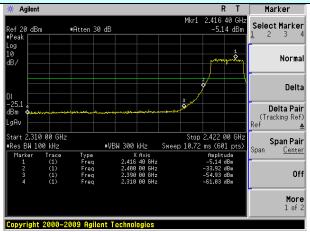


Test plot as follows:



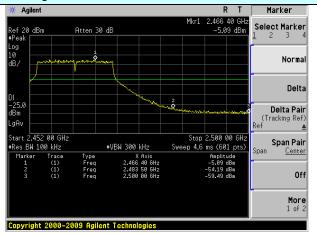
Lowest channel

Test mode:



Lowest channel

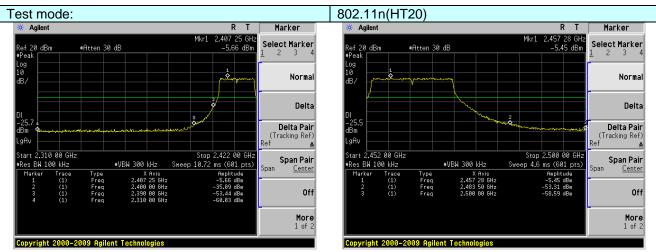
802.11g



Highest channel

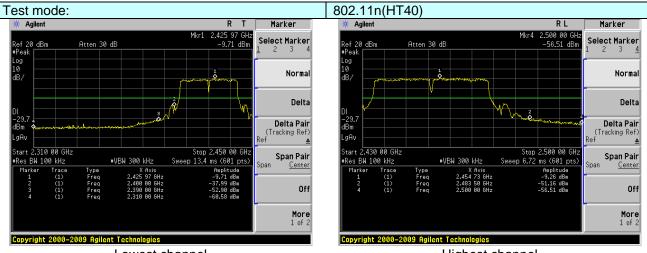
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Lowest channel

Highest channel



Lowest channel

Highest channel

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7.6.2 Radiated Emission Method

| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | |
|-----------------------|---|-----------------------------------|--------------|-------------|--------------------|--|--|
| Test Method: | ANSI C63.4: 20 | 03 | | | | | |
| Test Frequency Range: | All of the restrict 2500MHz) data | | tested, only | the worst b | pand's (2310MHz to | | |
| Test site: | Measurement D | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | |
| · | | Peak | 1MHz | 3MHz | Peak | | |
| | Above 1GHz | Peak | 1MHz | 10Hz | Average | | |
| Limit: | Freque | ency | Limit (dBuV | /m @3m) | Value | | |
| | | | 54.0 | • | Average | | |
| | Above 1 | GHZ | 74.0 | 0 | Peak | | |
| Test setup: | EUT | 4m Spectrum Analyzer Turn 0.8m lm | | | | | |
| Test Procedure: | The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degree 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 antenr tower. 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 measurement. For each suspected emission, the EUT was arranged to its worst cannot then the antenna was tuned to heights from 1 meter to 4 meter 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. 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 value of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quas peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis position. And found the Y axis positioning which it is worse case, only the testing the provided in the peak of the testion of the | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section | 5.3 for details | | | | | |
| Test results: | Pass | | | | | | |



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.

| 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2390.00 | 49.25 | 27.59 | 5.38 | 30.18 | 52.04 | 74.00 | -21.96 | Horizontal |
| 2400.00 | 57.45 | 27.58 | 5.39 | 30.18 | 60.24 | 74.00 | -13.76 | Horizontal |
| 2390.00 | 50.76 | 27.59 | 5.38 | 30.18 | 53.55 | 74.00 | -20.45 | Vertical |
| 2400.00 | 58.60 | 27.58 | 5.39 | 30.18 | 61.39 | 74.00 | -12.61 | 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2390.00 | 36.70 | 27.59 | 5.38 | 30.18 | 39.49 | 54.00 | -14.51 | Horizontal |
| 2400.00 | 44.73 | 27.58 | 5.39 | 30.18 | 47.52 | 54.00 | -6.48 | Horizontal |
| 2390.00 | 38.33 | 27.59 | 5.38 | 30.18 | 41.12 | 54.00 | -12.88 | Vertical |
| 2400.00 | 45.67 | 27.58 | 5.39 | 30.18 | 48.46 | 54.00 | -5.54 | 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 | 48.87 | 27.53 | 5.47 | 29.93 | 51.94 | 74.00 | -22.06 | Horizontal |
| 2500.00 | 45.47 | 27.55 | 5.49 | 29.93 | 48.58 | 74.00 | -25.42 | Horizontal |
| 2483.50 | 50.64 | 27.53 | 5.47 | 29.93 | 53.71 | 74.00 | -20.29 | Vertical |
| 2500.00 | 47.52 | 27.55 | 5.49 | 29.93 | 50.63 | 74.00 | -23.37 | Vertical |

Average value:

| , o. u.g 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 |
| 2483.50 | 36.70 | 27.53 | 5.47 | 29.93 | 39.77 | 54.00 | -14.23 | Horizontal |
| 2500.00 | 33.26 | 27.55 | 5.49 | 29.93 | 36.37 | 54.00 | -17.63 | Horizontal |
| 2483.50 | 38.43 | 27.53 | 5.47 | 29.93 | 41.50 | 54.00 | -12.50 | Vertical |
| 2500.00 | 35.05 | 27.55 | 5.49 | 29.93 | 38.16 | 54.00 | -15.84 | 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.

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| Test mode: | | 802.1 | 1g | Te | st channel: | L | _owest | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | <u>'</u> | | • | | <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 |
| 2390.00 | 48.48 | 27.59 | 5.38 | 30.18 | 51.27 | 74.00 | -22.73 | Horizontal |
| 2400.00 | 56.43 | 27.58 | 5.39 | 30.18 | 59.22 | 74.00 | -14.78 | Horizontal |
| 2390.00 | 49.94 | 27.59 | 5.38 | 30.18 | 52.73 | 74.00 | -21.27 | Vertical |
| 2400.00 | 57.37 | 27.58 | 5.39 | 30.18 | 60.16 | 74.00 | -13.84 | 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 | 36.15 | 27.59 | 5.38 | 30.18 | 38.94 | 54.00 | -15.06 | Horizontal |
| 2400.00 | 44.10 | 27.58 | 5.39 | 30.18 | 46.89 | 54.00 | -7.11 | Horizontal |
| 2390.00 | 37.72 | 27.59 | 5.38 | 30.18 | 40.51 | 54.00 | -13.49 | Vertical |
| 2400.00 | 44.99 | 27.58 | 5.39 | 30.18 | 47.78 | 54.00 | -6.22 | Vertical |
| | | | | | | | | |
| Test mode: | | 802.1 | 1g | Те | st channel: | ŀ | 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 | 47.78 | 27.53 | 5.47 | 29.93 | 50.85 | 74.00 | -23.15 | Horizontal |
| 2500.00 | 44.62 | 27.55 | 5.49 | 29.93 | 47.73 | 74.00 | -26.27 | Horizontal |
| 2483.50 | 49.39 | 27.53 | 5.47 | 29.93 | 52.46 | 74.00 | -21.54 | Vertical |
| 2500.00 | 46.53 | 27.55 | 5.49 | 29.93 | 49.64 | 74.00 | -24.36 | Vertical |
| Average va | lue: | 1 | | ı | 1 | 1 | T | 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 | 36.04 | 27.53 | 5.47 | 29.93 | 39.11 | 54.00 | -14.89 | Horizontal |
| 2500.00 | 32.75 | 27.55 | 5.49 | 29.93 | 35.86 | 54.00 | -18.14 | Horizontal |
| 2483.50 | 37.70 | 27.53 | 5.47 | 29.93 | 40.77 | 54.00 | -13.23 | Vertical |
| 2500.00 | 34.50 | 27.55 | 5.49 | 29.93 | 37.61 | 54.00 | -16.39 | Vertical |

Remark:

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

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:

Report No.: GTSE14060094801

Lowest

| root mode. | | 00= | (=0) | . • | 0.0 | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 48.18 | 27.59 | 5.38 | 30.18 | 50.97 | 74.00 | -23.03 | Horizontal |
| 2400.00 | 56.02 | 27.58 | 5.39 | 30.18 | 58.81 | 74.00 | -15.19 | Horizontal |
| 2390.00 | 49.62 | 27.59 | 5.38 | 30.18 | 52.41 | 74.00 | -21.59 | Vertical |
| 2400.00 | 56.89 | 27.58 | 5.39 | 30.18 | 59.68 | 74.00 | -14.32 | 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 | 35.94 | 27.59 | 5.38 | 30.18 | 38.73 | 54.00 | -15.27 | Horizontal |
| 2400.00 | 43.86 | 27.58 | 5.39 | 30.18 | 46.65 | 54.00 | -7.35 | Horizontal |
| 2390.00 | 37.48 | 27.59 | 5.38 | 30.18 | 40.27 | 54.00 | -13.73 | Vertical |
| 2400.00 | 44.72 | 27.58 | 5.39 | 30.18 | 47.51 | 54.00 | -6.49 | Vertical |
| | | | | | • | | • | |
| Test mode: | | 802.1 | 1n(HT20) | Те | st 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 | 47.34 | 27.53 | 5.47 | 29.93 | 50.41 | 74.00 | -23.59 | Horizontal |
| 2500.00 | 44.28 | 27.55 | 5.49 | 29.93 | 47.39 | 74.00 | -26.61 | Horizontal |
| 2483.50 | 48.89 | 27.53 | 5.47 | 29.93 | 51.96 | 74.00 | -22.04 | Vertical |
| 2500.00 | 46.14 | 27.55 | 5.49 | 29.93 | 49.25 | 74.00 | -24.75 | 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 | 35.78 | 27.53 | 5.47 | 29.93 | 38.85 | 54.00 | -15.15 | Horizontal |
| 2500.00 | 32.54 | 27.55 | 5.49 | 29.93 | 35.65 | 54.00 | -18.35 | Horizontal |
| 2483.50 | 37.41 | 27.53 | 5.47 | 29.93 | 40.48 | 54.00 | -13.52 | Vertical |
| 2500.00 | 34.29 | 27.55 | 5.49 | 29.93 | 37.40 | 54.00 | -16.60 | Vertical |
| Remark: | | | | | | | | - |

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

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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1.

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Test mode:

Report No.: GTSE14060094801

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 | 47.63 | 27.59 | 5.38 | 30.18 | 50.42 | 74.00 | -23.58 | Horizontal |
| 2400.00 | 55.29 | 27.58 | 5.39 | 30.18 | 58.08 | 74.00 | -15.92 | Horizontal |
| 2390.00 | 49.03 | 27.59 | 5.38 | 30.18 | 51.82 | 74.00 | -22.18 | Vertical |
| 2400.00 | 56.00 | 27.58 | 5.39 | 30.18 | 58.79 | 74.00 | -15.21 | 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 | 35.55 | 27.59 | 5.38 | 30.18 | 38.34 | 54.00 | -15.66 | Horizontal |
| 2400.00 | 43.40 | 27.58 | 5.39 | 30.18 | 46.19 | 54.00 | -7.81 | Horizontal |
| 2390.00 | 37.04 | 27.59 | 5.38 | 30.18 | 39.83 | 54.00 | -14.17 | Vertical |
| 2400.00 | 44.22 | 27.58 | 5.39 | 30.18 | 47.01 | 54.00 | -6.99 | Vertical |
| | | | | • | | | | • |
| Test mode: | | 802.1 | 1n(HT40) | 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 | 46.56 | 27.53 | 5.47 | 29.93 | 49.63 | 74.00 | -24.37 | Horizontal |
| 2500.00 | 43.67 | 27.55 | 5.49 | 29.93 | 46.78 | 74.00 | -27.22 | Horizontal |
| 2483.50 | 47.99 | 27.53 | 5.47 | 29.93 | 51.06 | 74.00 | -22.94 | Vertical |
| 2500.00 | 45.42 | 27.55 | 5.49 | 29.93 | 48.53 | 74.00 | -25.47 | 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 | 35.30 | 27.53 | 5.47 | 29.93 | 38.37 | 54.00 | -15.63 | Horizontal |
| 2500.00 | 32.17 | 27.55 | 5.49 | 29.93 | 35.28 | 54.00 | -18.72 | Horizontal |
| 2483.50 | 36.89 | 27.53 | 5.47 | 29.93 | 39.96 | 54.00 | -14.04 | Vertical |
| 2500.00 | 33.89 | 27.55 | 5.49 | 29.93 | 37.00 | 54.00 | -17.00 | Vertical |
| Remark: | | | | | | | | |

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.
2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

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.

Shenzhen, China 518102

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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 C63.4:2003 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 | | | | | |

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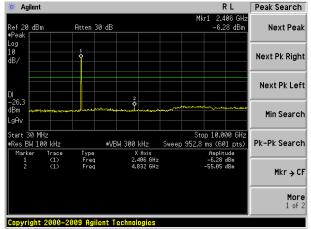


Test plot as follows:

Test mode:

802.11b

Lowest channel

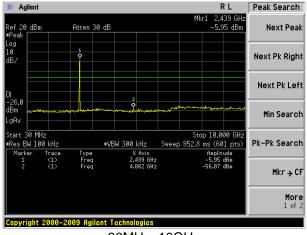


30MHz~10GHz

Agilent Peak Search Atten 30 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) Pk-Pk Search X Axis 13.925 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

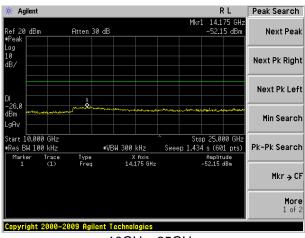
10GHz~25GHz

Middle channel

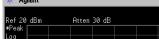


30MHz~10GHz

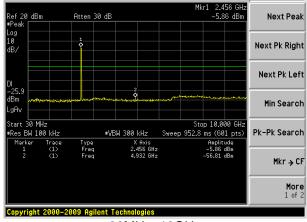
Peak Search



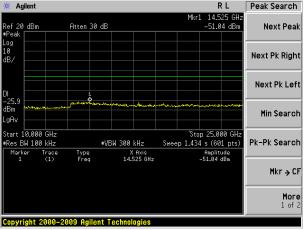
10GHz~25GHz



Highest channel



30MHz~10GHz



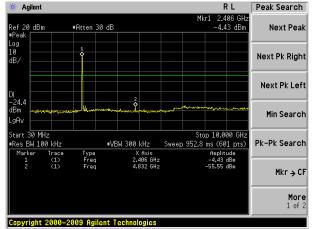
10GHz~25GHz



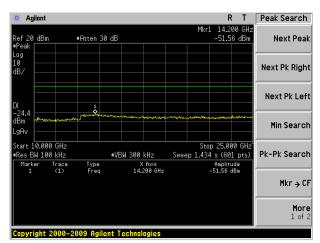
Test mode:

802.11g



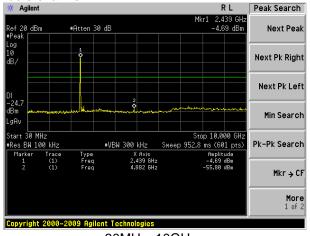


30MHz~10GHz

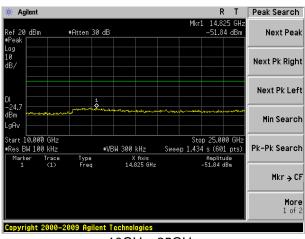


10GHz~25GHz

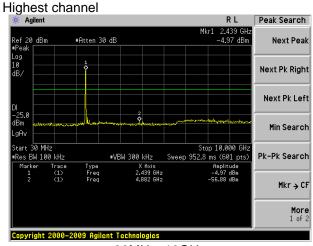
Middle channel



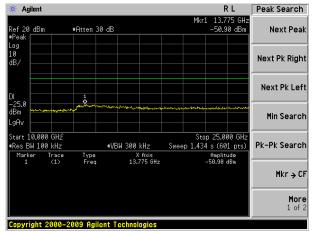
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



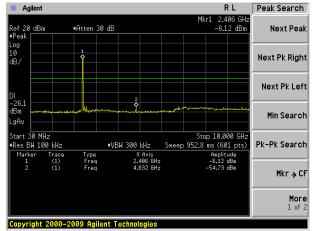
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel

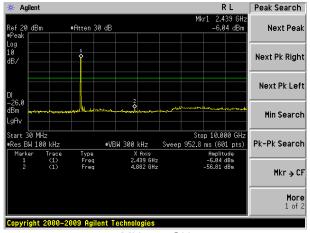


30MHz~10GHz

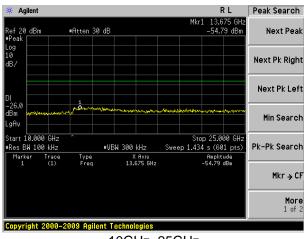
10GHz~25GHz

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Middle channel

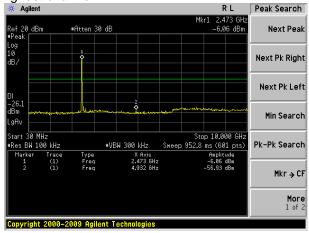


30MHz~10GHz

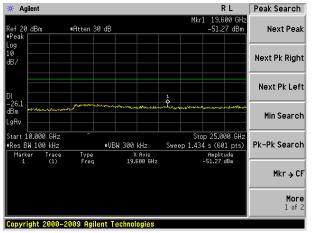


10GHz~25GHz





30MHz~10GHz



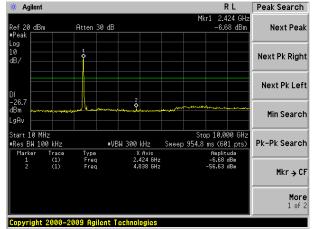
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

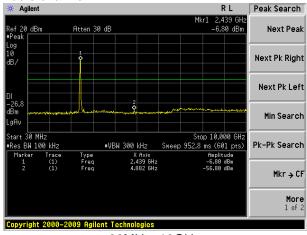


30MHz~10GHz

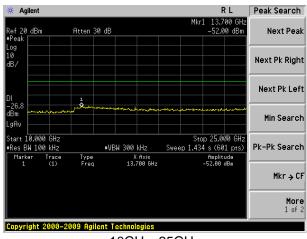
Peak Search 14.350 GHz -51.11 dBm Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search Type Freq X Axis 14.350 GHz Amplitude -51.11 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

Middle channel

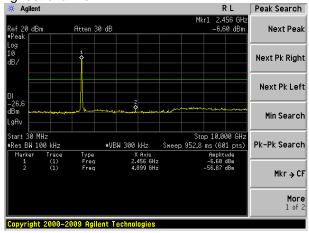


30MHz~10GHz

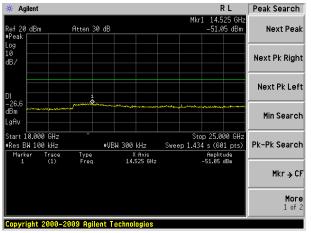


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

| Test Method: | ANSI C63 4: 200 | | | | | | | | | | |
|-----------------------|--|---|-------------|---------|---------|--|--|--|--|--|--|
| | ANSI C03.4. 200 | 3 | | | | | | | | | |
| Test Frequency Range: | 30MHz to 25GHz | ANSI C63.4: 2003 30MHz to 25GHz | | | | | | | | | |
| Test site: | Measurement Dis | Measurement Distance: 3m | | | | | | | | | |
| Receiver setup: | Frequency | Frequency Detector RBW VBW | | | | | | | | | |
| | 30MHz-1GHz | 30MHz-1GHz Quasi-peak 120KHz 300KHz | | | | | | | | | |
| | Above 1CHz | Above 1GHz Peak 1MHz 3MHz | | | | | | | | | |
| | Above 1GHz | Peak | 1MHz | 10Hz | Average | | | | | | |
| Limit: | Frequen | cy L | _imit (dBuV | /m @3m) | Value | | | | | | |
| | 30MHz-88 | 30MHz-88MHz 40.00 Quasi-p | | | | | | | | | |
| | 88MHz-216 | 88MHz-216MHz 43.50 Quasi-peak | | | | | | | | | |
| | 216MHz-96 | 216MHz-960MHz 46.00 Quasi-peak | | | | | | | | | |
| | 960MHz-1 | 960MHz-1GHz 54.00 Quasi-peak | | | | | | | | | |
| | Above 10 | Above 1GHz 54.00 Average | | | | | | | | | |
| | Above 10 | Above 1GHz 74.00 Peak | | | | | | | | | |
| | Tum 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8 | Above 1GHz Antenna Tower Horn Antenna | | | | | | | | | |

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2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102



| Test Procedure: | 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. |
|-------------------|---|
| | 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. |
| | 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. |
| | 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. |
| | 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
| | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak 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

| 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 41.86 | 51.47 | 15.57 | 0.68 | 32.04 | 35.68 | 40.00 | -4.32 | Vertical |
| 61.56 | 53.23 | 14.03 | 0.87 | 31.93 | 36.20 | 40.00 | -3.80 | Vertical |
| 167.82 | 51.76 | 10.90 | 1.67 | 32.04 | 32.29 | 43.50 | -11.21 | Vertical |
| 287.99 | 43.94 | 14.84 | 2.31 | 32.18 | 28.91 | 46.00 | -17.09 | Vertical |
| 399.03 | 36.75 | 17.06 | 2.85 | 31.90 | 24.76 | 46.00 | -21.24 | Vertical |
| 798.98 | 36.66 | 22.06 | 4.45 | 31.32 | 31.85 | 46.00 | -14.15 | Vertical |
| 41.71 | 48.98 | 15.57 | 0.68 | 32.04 | 33.19 | 40.00 | -6.81 | Horizontal |
| 61.13 | 51.79 | 14.29 | 0.87 | 31.93 | 35.02 | 40.00 | -4.98 | Horizontal |
| 90.86 | 45.58 | 14.07 | 1.12 | 31.72 | 29.05 | 43.50 | -14.45 | Horizontal |
| 211.53 | 51.43 | 12.93 | 1.91 | 32.15 | 34.12 | 43.50 | -9.38 | Horizontal |
| 278.07 | 52.99 | 14.63 | 2.26 | 32.17 | 37.71 | 46.00 | -8.29 | Horizontal |
| 386.63 | 45.63 | 16.78 | 2.79 | 31.92 | 33.28 | 46.00 | -12.72 | Horizontal |



■ Above 1GHz

| Test mode: | | 802.11b | | 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 | 46.21 | 31.28 | 8.62 | 24.17 | 61.94 | 74.00 | -12.06 | Vertical |
| 7236.00 | 35.27 | 35.36 | 11.68 | 26.52 | 55.79 | 74.00 | -18.21 | Vertical |
| 9648.00 | 34.13 | 37.44 | 14.16 | 25.44 | 60.29 | 74.00 | -13.71 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 40.69 | 31.28 | 8.62 | 24.17 | 56.42 | 74.00 | -17.58 | Horizontal |
| 7236.00 | 32.42 | 35.36 | 11.68 | 26.52 | 52.94 | 74.00 | -21.06 | Horizontal |
| 9648.00 | 28.97 | 37.44 | 14.16 | 25.44 | 55.13 | 74.00 | -18.87 | 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 | 21.11 | 31.28 | 8.62 | 24.17 | 36.84 | 54.00 | -17.16 | Vertical |
| 7236.00 | 19.13 | 35.36 | 11.68 | 26.52 | 39.65 | 54.00 | -14.35 | Vertical |
| 9648.00 | 16.61 | 37.44 | 14.16 | 25.44 | 42.77 | 54.00 | -11.23 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 21.00 | 31.28 | 8.62 | 24.17 | 36.73 | 54.00 | -17.27 | Horizontal |
| 7236.00 | 17.70 | 35.36 | 11.68 | 26.52 | 38.22 | 54.00 | -15.78 | Horizontal |
| 9648.00 | 17.15 | 37.44 | 14.16 | 25.44 | 43.31 | 54.00 | -10.69 | 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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11b | | Test | channel: | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 47.03 | 32.02 | 8.66 | 24.12 | 63.59 | 74.00 | -10.41 | Vertical |
| 7311.00 | 36.14 | 36.64 | 11.71 | 26.71 | 57.78 | 74.00 | -16.22 | Vertical |
| 9748.00 | 34.85 | 38.54 | 14.25 | 25.38 | 62.26 | 74.00 | -11.74 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 41.78 | 32.02 | 8.66 | 24.12 | 58.34 | 74.00 | -15.66 | Horizontal |
| 7311.00 | 33.40 | 36.64 | 11.71 | 26.71 | 55.04 | 74.00 | -18.96 | Horizontal |
| 9748.00 | 29.98 | 38.54 | 14.25 | 25.38 | 57.39 | 74.00 | -16.61 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 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 |
| 4874.00 | 22.03 | 32.02 | 8.66 | 24.12 | 38.59 | 54.00 | -15.41 | Vertical |
| 7311.00 | 20.11 | 36.64 | 11.71 | 26.71 | 41.75 | 54.00 | -12.25 | Vertical |
| 9748.00 | 17.69 | 38.54 | 14.25 | 25.38 | 45.10 | 54.00 | -8.90 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 22.01 | 32.02 | 8.66 | 24.12 | 38.57 | 54.00 | -15.43 | Horizontal |
| 7311.00 | 18.63 | 36.64 | 11.71 | 26.71 | 40.27 | 54.00 | -13.73 | Horizontal |
| 9748.00 | 18.24 | 38.54 | 14.25 | 25.38 | 45.65 | 54.00 | -8.35 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | _ | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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 | | Т | est c | hannel: | | Highe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|------------------------|-------|-------------------|------------------|-------|-----------------------|--------------|
| Peak value: | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Prean Facto (dB) | or . | Level (dBuV/m) | Limit L (dBuV | | Over Limit (dB) | polarization |
| 4924.00 | 46.83 | 32.14 | 8.70 | 24.0 | 5 | 63.62 | 74.0 | 0 | -10.39 | Vertical |
| 7386.00 | 35.93 | 36.75 | 11.76 | 26.90 | 0 | 57.54 | 74.0 | 0 | -16.47 | Vertical |
| 9848.00 | 34.67 | 38.79 | 14.31 | 25.30 | 0 | 62.47 | 74.0 | 0 | -11.53 | Vertical |
| 12310.00 | * | | | | | | 74.0 | 0 | | Vertical |
| 14772.00 | * | | | | | | 74.0 | 0 | | Vertical |
| 17234.00 | * | | | | | | 74.0 | 0 | | Vertical |
| 4924.00 | 41.51 | 32.14 | 8.70 | 24.0 | 5 | 58.30 | 74.0 | 0 | -15.70 | Horizontal |
| 7386.00 | 33.16 | 36.75 | 11.76 | 26.90 | 0 | 54.77 | 74.0 | 0 | -19.24 | Horizontal |
| 9848.00 | 29.73 | 38.79 | 14.31 | 25.30 | 0 | 57.53 | 74.0 | 0 | -16.47 | Horizontal |
| 12310.00 | * | | | | | | 74.0 | 0 | | Horizontal |
| 14772.00 | * | | | | | | 74.0 | 0 | | Horizontal |
| 17234.00 | * | | | | | | 74.0 | 0 | | Horizontal |
| Average val | ue: | | • | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Prean Facto (dB) | or | Level (dBuV/m) | Limit L (dBuV | | Over Limit (dB) | polarization |
| 4924.00 | 21.80 | 32.14 | 8.70 | 24.0 | 5 | 38.59 | 54.0 | 0 | -15.41 | Vertical |
| 7386.00 | 19.87 | 36.75 | 11.76 | 26.90 | 0 | 41.48 | 54.0 | 0 | -12.53 | Vertical |
| 9848.00 | 17.42 | 38.79 | 14.31 | 25.30 | 0 | 45.22 | 54.0 | 0 | -8.78 | Vertical |
| 12310.00 | * | | | | | | 54.0 | 0 | | Vertical |
| 14772.00 | * | | | | | | 54.0 | 0 | | Vertical |
| 17234.00 | * | | | | | | 54.0 | 0 | | Vertical |
| 4924.00 | 21.76 | 32.14 | 8.70 | 24.0 | 5 | 38.55 | 54.0 | 0 | -15.45 | Horizontal |
| 7386.00 | 18.40 | 36.75 | 11.76 | 26.90 | 0 | 40.01 | 54.0 | 0 | -14.00 | Horizontal |
| 9848.00 | 17.97 | 38.79 | 14.31 | 25.30 | 0 | 45.77 | 54.0 | 0 | -8.24 | Horizontal |
| 12310.00 | * | | | | | | 54.0 | 0 | | Horizontal |
| 14772.00 | * | | | | | | 54.0 | 0 | | Horizontal |
| 17234.00 | * | | | | | | 54.0 | 0 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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 | 46.03 | 31.28 | 8.62 | 24.17 | 61.76 | 74.00 | -12.24 | Vertical |
| 7236.00 | 35.08 | 35.36 | 11.68 | 26.52 | 55.60 | 74.00 | -18.40 | Vertical |
| 9648.00 | 33.98 | 37.44 | 14.16 | 25.44 | 60.14 | 74.00 | -13.86 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 40.46 | 31.28 | 8.62 | 24.17 | 56.19 | 74.00 | -17.81 | Horizontal |
| 7236.00 | 32.21 | 35.36 | 11.68 | 26.52 | 52.73 | 74.00 | -21.27 | Horizontal |
| 9648.00 | 28.75 | 37.44 | 14.16 | 25.44 | 54.91 | 74.00 | -19.09 | 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 | 20.91 | 31.28 | 8.62 | 24.17 | 36.64 | 54.00 | -17.36 | Vertical |
| 7236.00 | 18.92 | 35.36 | 11.68 | 26.52 | 39.44 | 54.00 | -14.56 | Vertical |
| 9648.00 | 16.38 | 37.44 | 14.16 | 25.44 | 42.54 | 54.00 | -11.46 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertica |
| 4824.00 | 20.78 | 31.28 | 8.62 | 24.17 | 36.51 | 54.00 | -17.49 | Horizontal |
| 7236.00 | 17.50 | 35.36 | 11.68 | 26.52 | 38.02 | 54.00 | -15.98 | Horizontal |
| 9648.00 | 16.92 | 37.44 | 14.16 | 25.44 | 43.08 | 54.00 | -10.92 | 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: | | 802.11g | | Test | channel: | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 45.90 | 32.02 | 8.66 | 24.12 | 62.46 | 74.00 | -11.54 | Vertical |
| 7311.00 | 34.94 | 36.64 | 11.71 | 26.71 | 56.58 | 74.00 | -17.42 | Vertical |
| 9748.00 | 33.86 | 38.54 | 14.25 | 25.38 | 61.27 | 74.00 | -12.73 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 40.28 | 32.02 | 8.66 | 24.12 | 56.84 | 74.00 | -17.16 | Horizontal |
| 7311.00 | 32.05 | 36.64 | 11.71 | 26.71 | 53.69 | 74.00 | -20.31 | Horizontal |
| 9748.00 | 28.59 | 38.54 | 14.25 | 25.38 | 56.00 | 74.00 | -18.00 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 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 |
| 4874.00 | 20.77 | 32.02 | 8.66 | 24.12 | 37.33 | 54.00 | -16.68 | Vertical |
| 7311.00 | 18.76 | 36.64 | 11.71 | 26.71 | 40.40 | 54.00 | -13.60 | Vertical |
| 9748.00 | 16.21 | 38.54 | 14.25 | 25.38 | 43.62 | 54.00 | -10.39 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 20.62 | 32.02 | 8.66 | 24.12 | 37.18 | 54.00 | -16.82 | Horizontal |
| 7311.00 | 17.35 | 36.64 | 11.71 | 26.71 | 38.99 | 54.00 | -15.01 | Horizontal |
| 9748.00 | 16.74 | 38.54 | 14.25 | 25.38 | 44.15 | 54.00 | -9.85 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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: | 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 | 46.62 | 32.14 | 8.70 | 24.05 | 63.41 | 74.00 | -10.59 | Vertical |
| 7386.00 | 35.71 | 36.75 | 11.76 | 26.90 | 57.32 | 74.00 | -16.68 | Vertical |
| 9848.00 | 34.49 | 38.79 | 14.31 | 25.30 | 62.29 | 74.00 | -11.71 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 41.24 | 32.14 | 8.70 | 24.05 | 58.03 | 74.00 | -15.97 | Horizontal |
| 7386.00 | 32.91 | 36.75 | 11.76 | 26.90 | 54.52 | 74.00 | -19.48 | Horizontal |
| 9848.00 | 29.48 | 38.79 | 14.31 | 25.30 | 57.28 | 74.00 | -16.72 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | T | Τ | | | 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 |
| 4924.00 | 21.57 | 32.14 | 8.70 | 24.05 | 38.36 | 54.00 | -15.64 | Vertical |
| 7386.00 | 19.62 | 36.75 | 11.76 | 26.90 | 41.23 | 54.00 | -12.77 | Vertical |
| 9848.00 | 17.15 | 38.79 | 14.31 | 25.30 | 44.95 | 54.00 | -9.05 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 21.51 | 32.14 | 8.70 | 24.05 | 38.30 | 54.00 | -15.70 | Horizontal |
| 7386.00 | 18.16 | 36.75 | 11.76 | 26.90 | 39.77 | 54.00 | -14.23 | Horizontal |
| 9848.00 | 17.69 | 38.79 | 14.31 | 25.30 | 45.49 | 54.00 | -8.51 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
 "*", 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 | 45.60 | 31.28 | 8.62 | 24.17 | 61.33 | 74.00 | -12.68 | Vertical |
| 7236.00 | 34.62 | 35.36 | 11.68 | 26.52 | 55.14 | 74.00 | -18.87 | Vertical |
| 9648.00 | 33.59 | 37.44 | 14.16 | 25.44 | 59.75 | 74.00 | -14.25 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 39.87 | 31.28 | 8.62 | 24.17 | 55.60 | 74.00 | -18.40 | Horizontal |
| 7236.00 | 31.69 | 35.36 | 11.68 | 26.52 | 52.21 | 74.00 | -21.80 | Horizontal |
| 9648.00 | 28.21 | 37.44 | 14.16 | 25.44 | 54.37 | 74.00 | -19.63 | 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 | 20.42 | 31.28 | 8.62 | 24.17 | 36.15 | 54.00 | -17.85 | Vertical |
| 7236.00 | 18.40 | 35.36 | 11.68 | 26.52 | 38.92 | 54.00 | -15.09 | Vertical |
| 9648.00 | 15.80 | 37.44 | 14.16 | 25.44 | 41.96 | 54.00 | -12.04 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 20.24 | 31.28 | 8.62 | 24.17 | 35.97 | 54.00 | -18.03 | Horizontal |
| 7236.00 | 17.01 | 35.36 | 11.68 | 26.52 | 37.53 | 54.00 | -16.48 | Horizontal |
| 9648.00 | 16.34 | 37.44 | 14.16 | 25.44 | 42.50 | 54.00 | -11.51 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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: | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 45.44 | 32.02 | 8.66 | 24.12 | 62.00 | 74.00 | -12.00 | Vertical |
| 7311.00 | 34.45 | 36.64 | 11.71 | 26.71 | 56.09 | 74.00 | -17.91 | Vertical |
| 9748.00 | 33.46 | 38.54 | 14.25 | 25.38 | 60.87 | 74.00 | -13.14 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 39.67 | 32.02 | 8.66 | 24.12 | 56.23 | 74.00 | -17.78 | Horizontal |
| 7311.00 | 31.50 | 36.64 | 11.71 | 26.71 | 53.14 | 74.00 | -20.86 | Horizontal |
| 9748.00 | 28.02 | 38.54 | 14.25 | 25.38 | 55.43 | 74.00 | -18.57 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 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 |
| 4874.00 | 20.25 | 32.02 | 8.66 | 24.12 | 36.81 | 54.00 | -17.19 | Vertical |
| 7311.00 | 18.21 | 36.64 | 11.71 | 26.71 | 39.85 | 54.00 | -14.15 | Vertical |
| 9748.00 | 15.60 | 38.54 | 14.25 | 25.38 | 43.01 | 54.00 | -10.99 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 20.05 | 32.02 | 8.66 | 24.12 | 36.61 | 54.00 | -17.39 | Horizontal |
| 7311.00 | 16.83 | 36.64 | 11.71 | 26.71 | 38.47 | 54.00 | -15.53 | Horizontal |
| 9748.00 | 16.13 | 38.54 | 14.25 | 25.38 | 43.54 | 54.00 | -10.46 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | _ | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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: | 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 | 45.26 | 32.14 | 8.70 | 24.05 | 62.05 | 74.00 | -11.95 | 4924.00 |
| 7386.00 | 34.26 | 36.75 | 11.76 | 26.90 | 55.87 | 74.00 | -18.13 | 7386.00 |
| 9848.00 | 33.30 | 38.79 | 14.31 | 25.30 | 61.10 | 74.00 | -12.90 | 9848.00 |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 39.43 | 32.14 | 8.70 | 24.05 | 56.22 | 74.00 | -17.78 | Horizontal |
| 7386.00 | 31.29 | 36.75 | 11.76 | 26.90 | 52.90 | 74.00 | -21.10 | Horizontal |
| 9848.00 | 27.80 | 38.79 | 14.31 | 25.30 | 55.60 | 74.00 | -18.40 | 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 | 20.05 | 32.14 | 8.70 | 24.05 | 36.84 | 54.00 | -17.16 | Vertical |
| 7386.00 | 18.00 | 36.75 | 11.76 | 26.90 | 39.61 | 54.00 | -14.39 | Vertical |
| 9848.00 | 15.36 | 38.79 | 14.31 | 25.30 | 43.16 | 54.00 | -10.84 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 19.83 | 32.14 | 8.70 | 24.05 | 36.62 | 54.00 | -17.38 | Horizontal |
| 7386.00 | 16.63 | 36.75 | 11.76 | 26.90 | 38.24 | 54.00 | -15.76 | Horizontal |
| 9848.00 | 15.90 | 38.79 | 14.31 | 25.30 | 43.70 | 54.00 | -10.30 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

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 | 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 |
| 4844.00 | 45.19 | 31.40 | 8.63 | 24.04 | | 61.18 | 74.00 | | -12.83 | Vertical |
| 7266.00 | 34.18 | 35.96 | 11.69 | 26.47 | | 55.36 | 74.00 | | -18.64 | Vertical |
| 9688.00 | 33.23 | 37.71 | 14.21 | 25.30 | | 59.85 | 74.00 | | -14.15 | Vertical |
| 12060.00 | * | | | | | | 74. | 00 | | Vertical |
| 14472.00 | * | | | | | | 74. | 00 | | Vertical |
| 16884.00 | * | | | | | | 74. | 00 | | Vertical |
| 4844.00 | 39.32 | 31.40 | 8.63 | 24 | .04 | 55.31 | 74. | 00 | -18.69 | Horizontal |
| 7266.00 | 31.20 | 35.96 | 11.69 | 26 | .47 | 52.38 | 74. | 00 | -21.63 | Horizontal |
| 9688.00 | 27.70 | 37.71 | 14.21 | 25.30 | | 54.32 | 74. | 00 | -19.68 | Horizontal |
| 12060.00 | * | | | | | | 74. | 00 | | Horizontal |
| 14472.00 | * | | | | | | 74. | 00 | | Horizontal |
| 16884.00 | * | | | | | | 74. | 00 | | Horizontal |
| Average val | | • | • | • | | • | | | | |

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 | 19.96 | 31.40 | 8.63 | 24.04 | 35.95 | 54.00 | -18.05 | Vertical |
| 7266.00 | 17.91 | 35.96 | 11.69 | 26.47 | 39.09 | 54.00 | -14.92 | Vertical |
| 9688.00 | 15.26 | 37.71 | 14.21 | 25.30 | 41.88 | 54.00 | -12.12 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4844.00 | 19.73 | 31.40 | 8.63 | 24.04 | 35.72 | 54.00 | -18.28 | Horizontal |
| 7266.00 | 16.54 | 35.96 | 11.69 | 26.47 | 37.72 | 54.00 | -16.28 | Horizontal |
| 9688.00 | 15.79 | 37.71 | 14.21 | 25.30 | 42.41 | 54.00 | -11.59 | 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(H | IT40) | | 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 | 45.09 | 32.02 | 8.66 | 24.12 | | 61.65 | 74. | 00 | -12.35 | Vertical |
| 7311.00 | 34.08 | 36.64 | 11.71 | 26.71 | | 55.72 | 74. | 00 | -18.28 | Vertical |
| 9748.00 | 33.15 | 38.54 | 14.25 | 25.38 | | 60.56 | 74.00 | | -13.44 | Vertical |
| 12185.00 | * | | | | | | 74.00 | | | Vertical |
| 14622.00 | * | | | | | | 74.00 | | | Vertical |
| 17059.00 | * | | | | | | 74.00 | | | Vertical |
| 4874.00 | 39.20 | 32.02 | 8.66 | 24 | .12 | 55.76 | 74.00 | | -18.24 | Horizontal |
| 7311.00 | 31.08 | 36.64 | 11.71 | 26 | 5.71 | 52.72 | 74.00 | | -21.28 | Horizontal |
| 9748.00 | 27.59 | 38.54 | 14.25 | 25.38 | | 55.00 | 74.00 | | -19.00 | 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) | Fa | eamp ctor dB) | Level (dBuV/m) | Limit (dBu\ | | Over Limit (dB) | polarization |
| 4874.00 | 19.86 | 32.02 | 8.66 | 24 | .12 | 36.42 | 54. | 00 | -17.58 | Vertical |
| 7311.00 | 17.79 | 36.64 | 11.71 | 26 | 5.71 | 39.43 | 54. | 00 | -14.57 | Vertical |
| 9748.00 | 15.14 | 38.54 | 14.25 | 25 | 5.38 | 42.55 | 54. | 00 | -11.45 | Vertical |
| 12185.00 | * | | | | | | 54. | 00 | | Vertical |
| 14622.00 | * | | | | | | 54. | 00 | | Vertical |
| 17059.00 | * | | | | | | 54. | 00 | | Vertical |
| 4874.00 | 19.62 | 32.02 | 8.66 | 24 | .12 | 36.18 | 54. | 00 | -17.82 | Horizontal |
| 7311.00 | 16.44 | 36.64 | 11.71 | 26 | 5.71 | 38.08 | 54. | 00 | -15.92 | Horizontal |
| 9748.00 | 15.67 | 38.54 | 14.25 | 25 | 5.38 | 43.08 | 54. | 00 | -10.92 | Horizontal |
| 12185.00 | * | | | | | | 54. | 00 | | Horizontal |
| 14622.00 | * | | | | | | 54. | 00 | | Horizontal |
| 17059.00 | * | | | | | | 54. | 00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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 | 1n(HT40) Test chann | | 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 | 44.98 | 32.08 | 8.68 | 23.97 | 61.77 | 74.00 | -12.23 | Vertical |
| 7356.00 | 33.96 | 36.69 | 11.74 | 26.73 | 55.66 | 74.00 | -18.34 | Vertical |
| 9808.00 | 33.05 | 38.60 | 14.29 | 25.22 | 60.72 | 74.00 | -13.28 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4904.00 | 39.05 | 32.08 | 8.68 | 23.97 | 55.84 | 74.00 | -18.16 | Horizontal |
| 7356.00 | 30.95 | 36.69 | 11.74 | 26.73 | 52.65 | 74.00 | -21.35 | Horizontal |
| 9808.00 | 27.45 | 38.60 | 14.29 | 25.22 | 55.12 | 74.00 | -18.88 | 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 |
| 4904.00 | 19.73 | 32.08 | 8.68 | 23.97 | 36.52 | 54.00 | -17.48 | Vertical |
| 7356.00 | 17.66 | 36.69 | 11.74 | 26.73 | 39.36 | 54.00 | -14.64 | Vertical |
| 9808.00 | 14.99 | 38.60 | 14.29 | 25.22 | 42.66 | 54.00 | -11.34 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4904.00 | 19.48 | 32.08 | 8.68 | 23.97 | 36.27 | 54.00 | -17.73 | Horizontal |
| 7356.00 | 16.31 | 36.69 | 11.74 | 26.73 | 38.01 | 54.00 | -15.99 | Horizontal |
| 9808.00 | 15.52 | 38.60 | 14.29 | 25.22 | 43.19 | 54.00 | -10.81 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

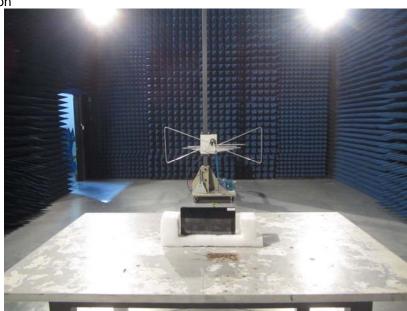
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

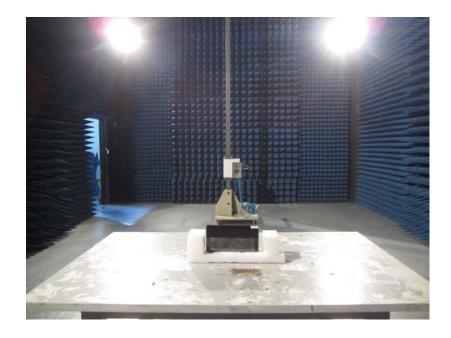
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission





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Conducted Emission



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9 EUT Constructional Details

















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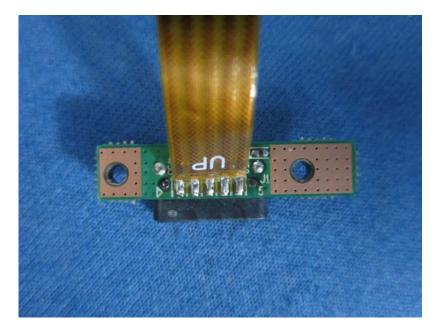






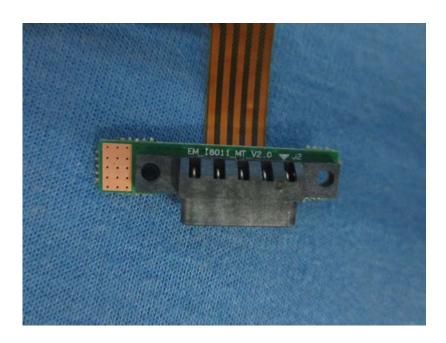






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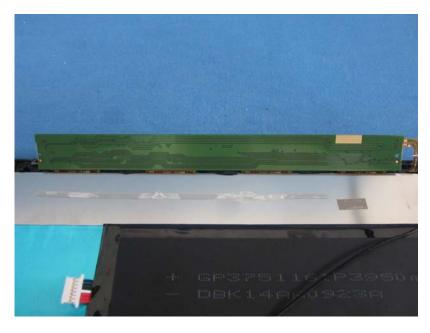
























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