



FCC RF Test Report

APPLICANT : Linktel Inc.
EQUIPMENT : PChomeTalk Phone for Skype 3G
BRAND NAME : PChomeTalk
MODEL NAME : PT2
FCC ID : 2ABGCPT2
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jul. 30, 2014 and testing was completed on Sep. 19, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : 2ABGCPT2

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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FR473003B | Rev. 01 | Initial issue of report | Sep. 26, 2014 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|----------------|-----------------------|--------------------|---|--------------------------------|--------|---|
| 3.1 | 15.247(a)(2) | RSS-210 A8.2(a) | 6dB Bandwidth | $\geq 0.5\text{MHz}$ | Pass | - |
| 3.2 | 15.247(b) | RSS-210 A8.4 | Power Output Measurement | $\leq 30\text{dBm}$ | Pass | - |
| 3.3 | 15.247(e) | RSS-210 A8.2(b) | Power Spectral Density | $\leq 8\text{dBm}/3\text{kHz}$ | Pass | - |
| 3.4 | 15.247(d) | RSS-210 A8.5 | Conducted Band Edges | $\leq 20\text{dBc}$ | Pass | - |
| | | | Conducted Spurious Emission | | Pass | - |
| 3.5 | 15.247(d) | RSS-210 A8.5 | Radiated Band Edges and Radiated Spurious Emission | 15.209(a) & 15.247(d) | Pass | Under limit 3.98 dB at 2483.520 MHz |
| 3.6 | 15.207 | RSS-Gen 7.2.4 | AC Conducted Emission | 15.207(a) | Pass | Under limit 9.70 dB at 0.182/0.190 MHz |
| 3.7 | 15.203 & 15.247(b) | RSS-210 A8.4 | Antenna Requirement | N/A | Pass | - |



1 General Description

1.1 Applicant

Linktel Inc.

24F/B, 105, Sec. 2, Tun-Hwa S. Rd., Taipei 106, Taiwan

1.2 Manufacturer

Mobiwire Mobiles (Ningbo) Co., Ltd.

Mobiwire Mobiles, No. 999 Dacheng East Road, Fenghua, Zhejiang, China

1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|---|
| Equipment | PChomeTalk Phone for Skype 3G |
| Brand Name | PChomeTalk |
| Model Name | PT2 |
| FCC ID | 2ABGCPT2 |
| EUT supports Radios application | GSM/GPRS/WCDMA/HSPA WLAN 11b/g/n HT20/HT40 Bluetooth v3.0 EDR |
| EUT Stage | Production Unit |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this standard

| Product Specification subjective to this standard | |
|---|--|
| Tx/Rx Channel Frequency Range | 2412 MHz ~ 2462 MHz |
| Maximum (Peak) Output Power to Antenna | 802.11b : 13.45 dBm (0.0221 W) 802.11g : 16.31 dBm (0.0428 W) 802.11n HT20 : 16.52 dBm (0.0449 W) 802.11n HT40 : 16.15 dBm (0.0412 W) |
| Antenna Type | Fixed Internal Antenna type with gain 0.00 dBi |
| Type of Modulation | 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) |

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| | | | |
|---------------------------|---|---------|-----------|
| Test Site | SPORTON INTERNATIONAL INC. | | |
| Test Site Location | No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978 | | |
| Test Site No. | Sporton Site No. | | |
| | TH02-HY | CO05-HY | 03CH09-HY |

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- ANSI C63.4-2003

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|-------------|---------|-------------|
| 2400-2483.5 MHz | 1 | 2412 | 7 | 2442 |
| | 2 | 2417 | 8 | 2447 |
| | 3 | 2422 | 9 | 2452 |
| | 4 | 2427 | 10 | 2457 |
| | 5 | 2432 | 11 | 2462 |
| | 6 | 2437 | - | - |



2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test shown in the following tables.

| 2.4GHz 802.11b mode | | | | |
|---------------------|--------|--------|----------|---------|
| Data Rate (MHz) | 1M bps | 2M bps | 5.5M bps | 11M bps |
| Peak Power (dBm) | 13.45 | 13.43 | 13.41 | 13.32 |

| 2.4GHz 802.11g mode | | | | | | | | |
|---------------------|--------|--------|---------|---------|---------|---------|---------|---------|
| Data Rate (MHz) | 6M bps | 9M bps | 12M bps | 18M bps | 24M bps | 36M bps | 48M bps | 54M bps |
| Peak Power (dBm) | 16.31 | 16.24 | 16.20 | 16.27 | 16.03 | 16.15 | 15.92 | 15.95 |

| 2.4GHz 802.11n HT20 mode | | | | | | | | |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz) | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Peak Power (dBm) | 16.52 | 16.47 | 16.41 | 16.18 | 16.33 | 16.22 | 16.32 | 16.37 |

| 2.4GHz 802.11n HT40 mode | | | | | | | | |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz) | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Peak Power (dBm) | 16.15 | 16.07 | 15.59 | 15.68 | 15.77 | 15.62 | 15.74 | 15.53 |



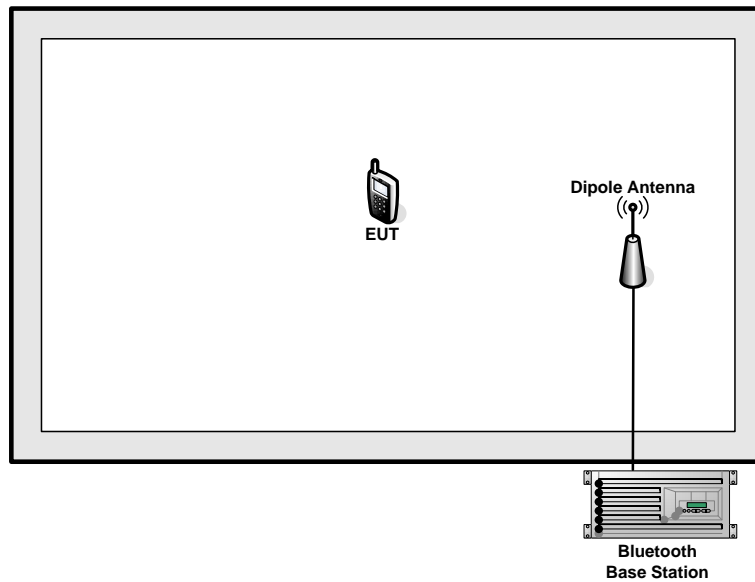
2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

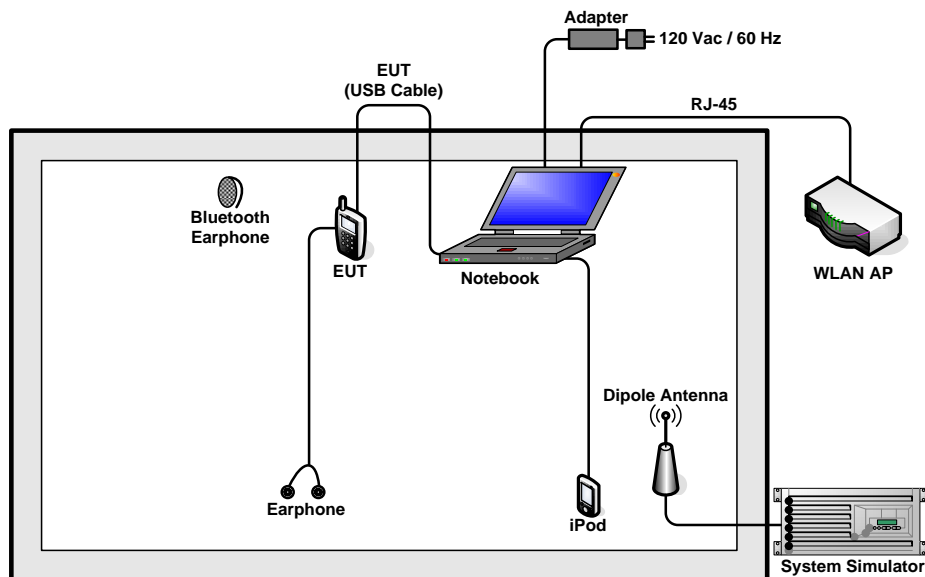
| Test Cases | | | | |
|-----------------------------|--|--------------|-----------|--------------|
| Conducted TCs | Test Items | Mode | Data Rate | Test Channel |
| | 6dB BW Power Spectral Density | 802.11b | 1 Mbps | 1/6/11 |
| | | 802.11g | 6 Mbps | 1/6/11 |
| | | 802.11n HT20 | MCS0 | 1/6/11 |
| | | 802.11n HT40 | MCS0 | 3/6/9 |
| | Output Power | 802.11b | 1 Mbps | 1/6/11 |
| | | 802.11g | 6 Mbps | 1/6/11 |
| | | 802.11n HT20 | MCS0 | 1/6/11 |
| | | 802.11n HT40 | MCS0 | 3/6/9 |
| | Conducted Band Edge | 802.11b | 1 Mbps | 1/11 |
| | | 802.11g | 6 Mbps | 1/11 |
| | | 802.11n HT20 | MCS0 | 1/11 |
| | | 802.11n HT40 | MCS0 | 3/9 |
| | Conducted Spurious Emission | 802.11b | 1 Mbps | 1/6/11 |
| | | 802.11g | 6 Mbps | 1/6/11 |
| | | 802.11n HT20 | MCS0 | 1/6/11 |
| | | 802.11n HT40 | MCS0 | 3/6/9 |
| Radiated TCs | Radiated Band Edge | 802.11b | 1 Mbps | 1/11 |
| | | 802.11g | 6 Mbps | 1/11 |
| | | 802.11n HT20 | MCS0 | 1/11 |
| | | 802.11n HT40 | MCS0 | 3/9 |
| | Radiated Spurious Emission | 802.11b | 1 Mbps | 1/6/11 |
| | | 802.11g | 6 Mbps | 1/6/11 |
| | | 802.11n HT20 | MCS0 | 1/6/11 |
| | | 802.11n HT40 | MCS0 | 3/6/9 |
| AC Conducted Emission | Mode 1 : WCDMA Band V Idle + Bluetooth Link + WLAN Link + Camera + Earphone + Battery + USB Cable (Data Link with Notebook) | | | |

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<EUT with USB Cable (Link with Notebook) Mode>





2.5 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|--------------------|---------------|----------------|--|-------------------|--|
| 1. | System Simulator | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | Bluetooth Earphone | Sony Ericsson | MW600 | PY7DDA-2029 | N/A | N/A |
| 3. | WLAN AP | D-Link | DIR-628 | KA2DIR628A2 | N/A | Unshielded, 1.8 m |
| 4. | Notebook | DELL | Latitude E6320 | FCC DoC/ Contains FCC ID: QDS-BRCM1054 | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 5. | iPod Earphone | Apple | N/A | Verification | Unshielded, 1.0 m | N/A |
| 6. | iPod | Apple | A1285 | FCC DoC | Shielded, 1.0 m | N/A |
| 7. | SD Card | SanDisk | MicroSD HC | FCC DoC | N/A | N/A |

2.6 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

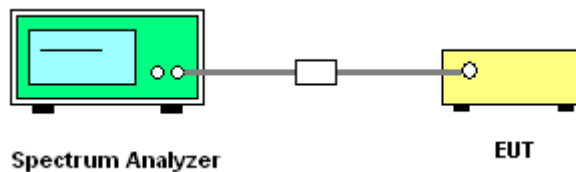
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. Measure and record the results in the test report.

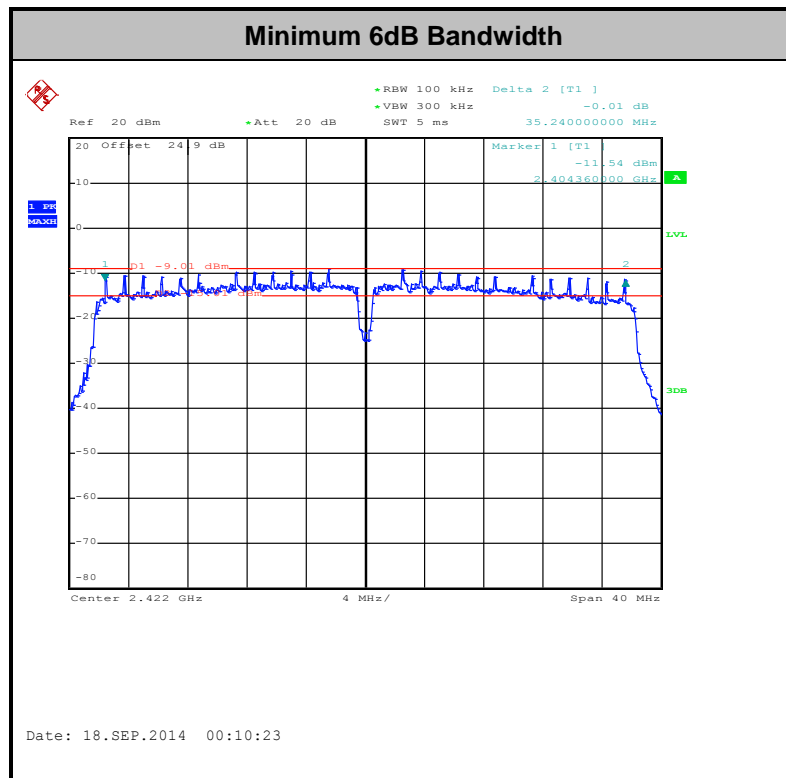
3.1.4 Test Setup



**3.1.5 Test Result of 6dB Occupied Bandwidth**

| | | | |
|------------------------|----------------|----------------------------|--------|
| Test Band : | 2.4GHz | Temperature : | 21~26℃ |
| Test Engineer : | Osolemio Chang | Relative Humidity : | 45~54% |

| Mod. | Data Rate | N _{TX} | Channel | Freq. (MHz) | - | 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|------|-----------|-----------------|---------|----------------|---|---------------------------|---|-----------|
| 11b | 1Mbps | 1 | 1 | 2412 | - | 10.08 | 0.5 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | | 10.08 | 0.5 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | | 10.04 | 0.5 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | | 15.12 | 0.5 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | | 15.68 | 0.5 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | | 15.52 | 0.5 | Pass |
| HT20 | MCS0 | 1 | 1 | 2412 | | 15.12 | 0.5 | Pass |
| HT20 | MCS0 | 1 | 6 | 2437 | | 15.44 | 0.5 | Pass |
| HT20 | MCS0 | 1 | 11 | 2462 | | 15.40 | 0.5 | Pass |
| HT40 | MCS0 | 1 | 3 | 2422 | | 35.24 | 0.5 | Pass |
| HT40 | MCS0 | 1 | 6 | 2437 | | 35.20 | 0.5 | Pass |
| HT40 | MCS0 | 1 | 9 | 2452 | | 35.20 | 0.5 | Pass |



3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting Antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the Antenna exceeds 6dBi.

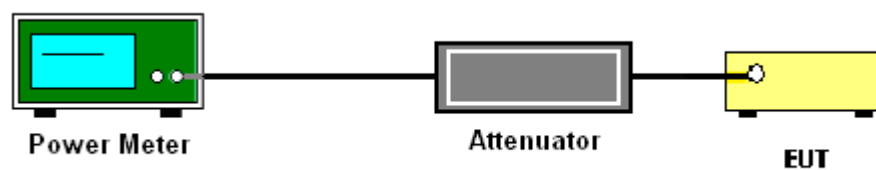
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup





3.2.5 Test Result of Peak Output Power

| | | | |
|-----------------|----------------|---------------------|--------|
| Test Mode : | 2.4GHz | Temperature : | 21~26℃ |
| Test Engineer : | Osolemio Chang | Relative Humidity : | 45~54% |

| Mod. | Data Rate | N _{TX} | Channel | Freq. (MHz) | RF Output Power (dBm) | Power Limit (dBm) | DG (dBi) | Pass/Fail |
|------|-----------|-----------------|---------|-------------|-----------------------|-------------------|----------|-----------|
| 11b | 1Mbps | 1 | 1 | 2412 | 13.45 | 30 | 0.00 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | 13.06 | 30 | 0.00 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | 12.88 | 30 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | 15.98 | 30 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | 16.31 | 30 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | 15.87 | 30 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 1 | 2412 | 16.27 | 30 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 6 | 2437 | 16.52 | 30 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 11 | 2462 | 16.21 | 30 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 3 | 2422 | 15.65 | 30 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 6 | 2437 | 16.15 | 30 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 9 | 2452 | 15.57 | 30 | 0.00 | Pass |

Note: Measured power (dBm) has offset with cable loss.

**3.2.6 Test Result of Average output Power (Reporting Only)**

| | | | |
|------------------------|----------------|----------------------------|--------|
| Test Mode : | 2.4GHz | Temperature : | 21~26℃ |
| Test Engineer : | Osolemio Chang | Relative Humidity : | 45~54% |

| Mod. | Data Rate | N _{TX} | Channel | Freq. (MHz) | Duty Factor (dB) | Average Output Power (dBm) | Power Limit (dBm) | DG (dBi) | Pass/Fail |
|------|-----------|-----------------|---------|----------------|------------------------|-------------------------------------|-------------------------|-------------|-----------|
| 11b | 1Mbps | 1 | 1 | 2412 | 0.09 | 10.86 | 30 | 0.00 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | 0.09 | 10.33 | 30 | 0.00 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | 0.09 | 10.12 | 30 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | 0.47 | 7.22 | 30 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | 0.47 | 7.97 | 30 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | 0.47 | 6.63 | 30 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 1 | 2412 | 0.56 | 7.35 | 30 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 6 | 2437 | 0.56 | 8.25 | 30 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 11 | 2462 | 0.56 | 6.98 | 30 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 3 | 2422 | 1.01 | 5.42 | 30 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 6 | 2437 | 1.01 | 7.10 | 30 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 9 | 2452 | 1.01 | 4.85 | 30 | 0.00 | Pass |

Note: Measured power (dBm) has offset with cable loss and duty factor.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

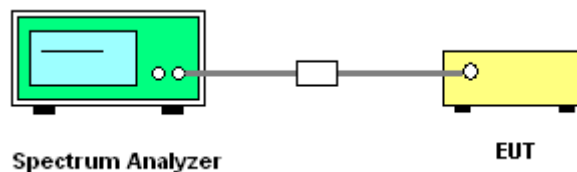
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup

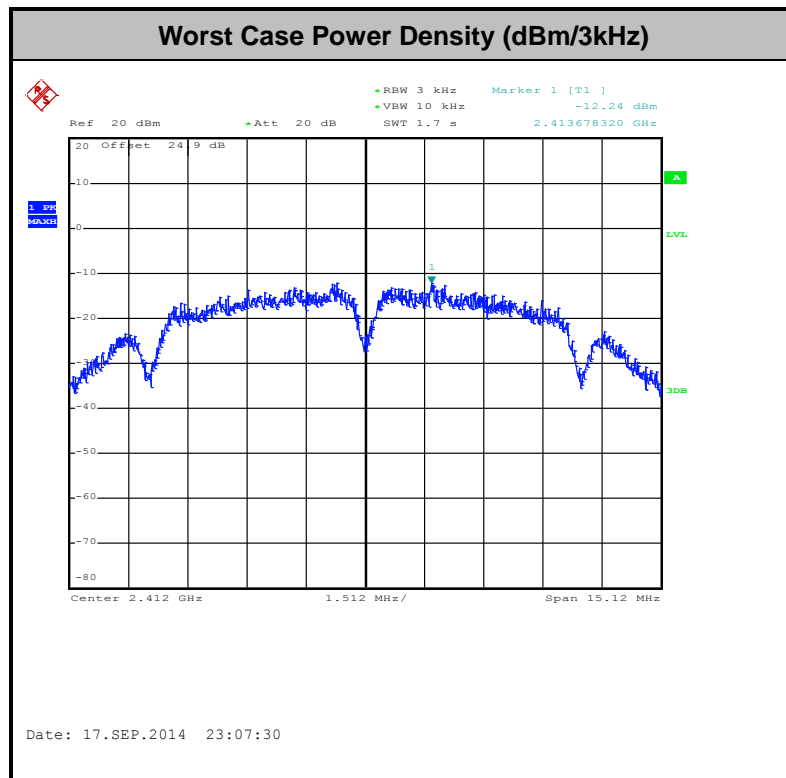


**3.3.5 Test Result of Power Spectral Density**

| | | | |
|------------------------|----------------|----------------------------|--------|
| Test Mode : | 2.4GHz | Temperature : | 21~26℃ |
| Test Engineer : | Osolemio Chang | Relative Humidity : | 45~54% |

| Mod. | Data Rate | N _{TX} | Channel | Freq. (MHz) | Peak Power Density (dBm/3kHz) | Max. Limits (dBm/3kHz) | DG (dBi) | Pass/Fail |
|------|-----------|-----------------|---------|----------------|-------------------------------------|---------------------------|-------------|-----------|
| 11b | 1Mbps | 1 | 1 | 2412 | -12.24 | 8 | 0.00 | Pass |
| 11b | 1Mbps | 1 | 6 | 2437 | -12.78 | 8 | 0.00 | Pass |
| 11b | 1Mbps | 1 | 11 | 2462 | -13.21 | 8 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 1 | 2412 | -17.07 | 8 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 6 | 2437 | -17.10 | 8 | 0.00 | Pass |
| 11g | 6Mbps | 1 | 11 | 2462 | -18.60 | 8 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 1 | 2412 | -18.59 | 8 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 6 | 2437 | -17.31 | 8 | 0.00 | Pass |
| HT20 | MCS0 | 1 | 11 | 2462 | -18.19 | 8 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 3 | 2422 | -23.78 | 8 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 6 | 2437 | -22.37 | 8 | 0.00 | Pass |
| HT40 | MCS0 | 1 | 9 | 2452 | -25.02 | 8 | 0.00 | Pass |

Note: Measured power density (dBm) has offset with cable loss.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

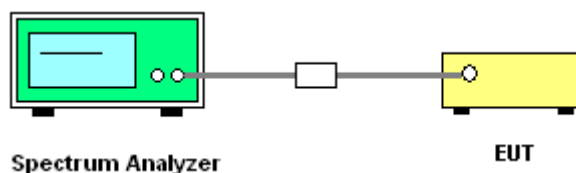
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

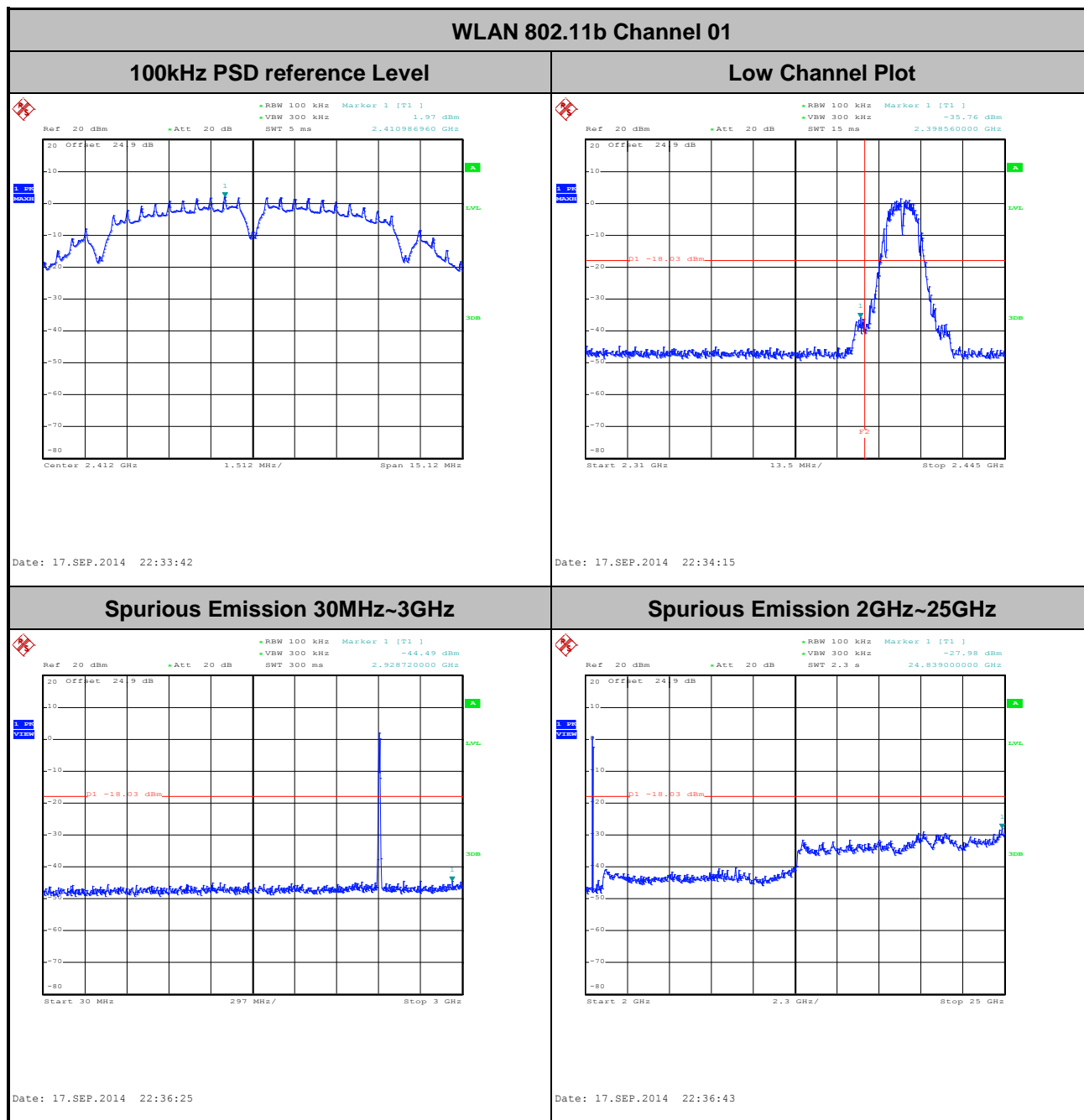
3.4.4 Test Setup





3.4.5 Test Result of Conducted Band Edges and Spurious Emission

| | | | |
|----------------|------------|---------------------|----------------|
| Test Mode : | 802.11b | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Low | Relative Humidity : | 45~54% |
| Test Channel : | 01 | Test Engineer : | Osolemio Chang |

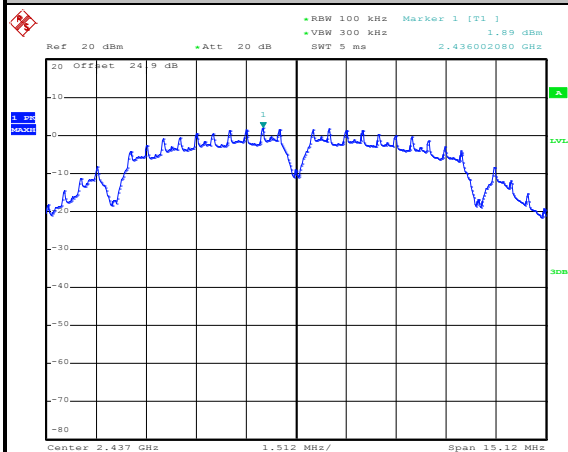




| | | | |
|----------------|-------------|---------------------|----------------|
| Test Mode : | 802.11b | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Mid. | Relative Humidity : | 45~54% |
| Test Channel : | 06 | Test Engineer : | Osolemio Chang |

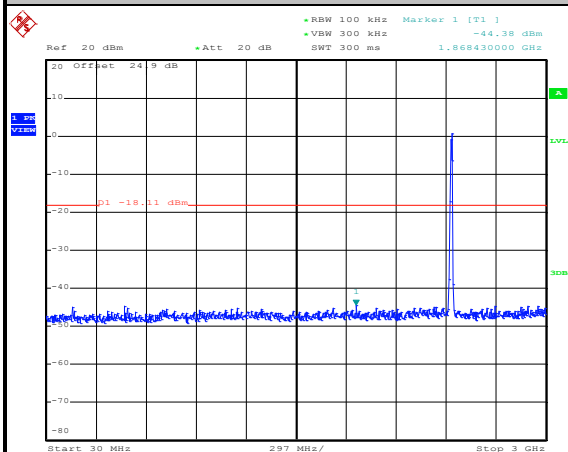
WLAN 802.11b Channel 06

100kHz PSD reference Level



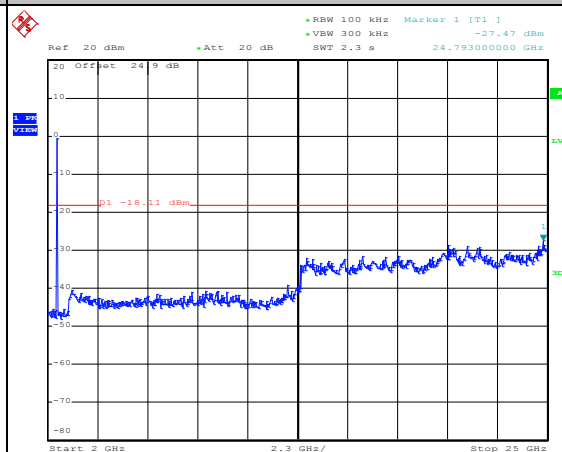
Date: 17.SEP.2014 23:02:44

Spurious Emission 30MHz~3GHz



Date: 17.SEP.2014 23:03:05

Spurious Emission 2GHz~25GHz



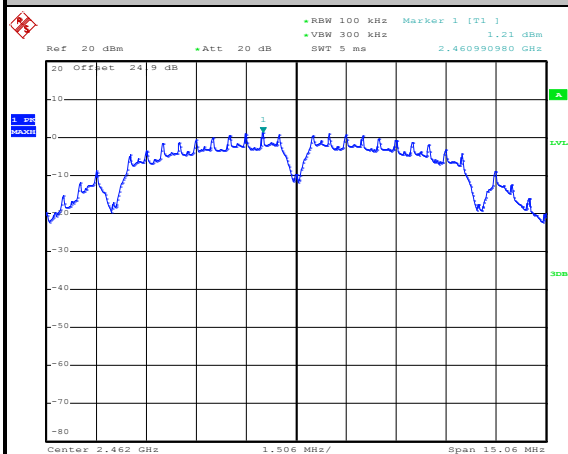
Date: 17.SEP.2014 23:03:23



| | | | |
|----------------|-------------|---------------------|----------------|
| Test Mode : | 802.11b | Temperature : | 21~26°C |
| Test Band : | 2.4GHz High | Relative Humidity : | 45~54% |
| Test Channel : | 11 | Test Engineer : | Osolemio Chang |

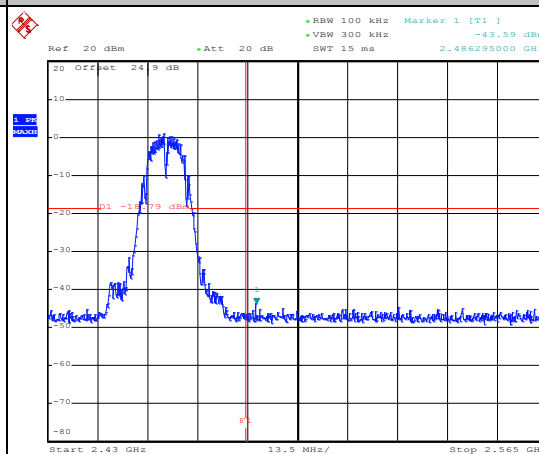
WLAN 802.11b Channel 11

100kHz PSD reference Level



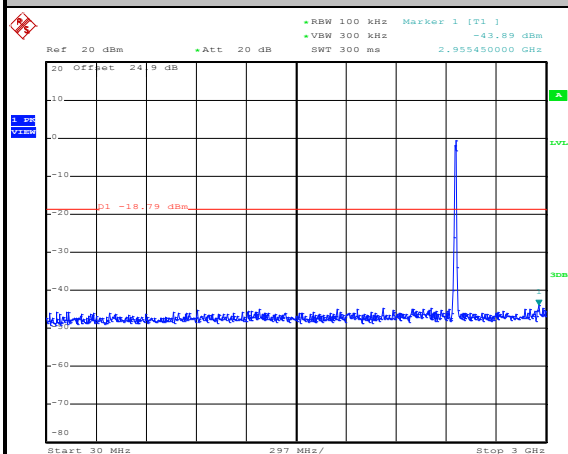
Date: 17.SEP.2014 23:13:13

High Channel Plot



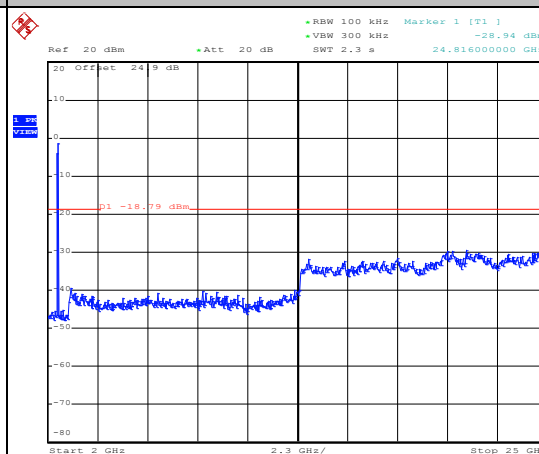
Date: 17.SEP.2014 23:13:29

Spurious Emission 30MHz~3GHz



Date: 17.SEP.2014 23:13:55

Spurious Emission 2GHz~25GHz



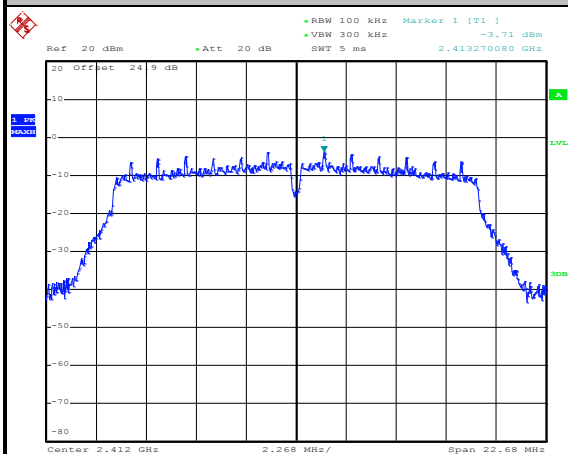
Date: 17.SEP.2014 23:14:13



| | | | |
|----------------|------------|---------------------|----------------|
| Test Mode : | 802.11g | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Low | Relative Humidity : | 45~54% |
| Test Channel : | 01 | Test Engineer : | Osolemio Chang |

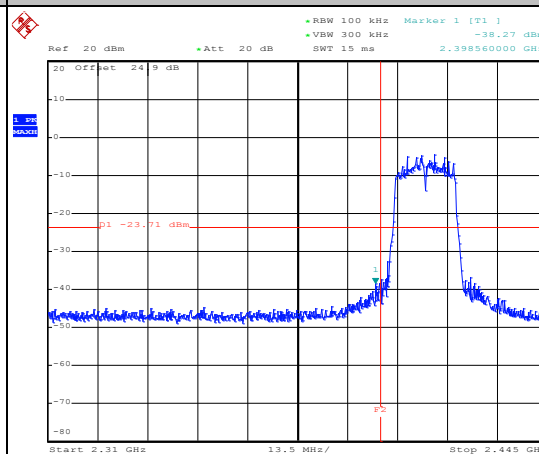
WLAN 802.11g Channel 01

100kHz PSD reference Level



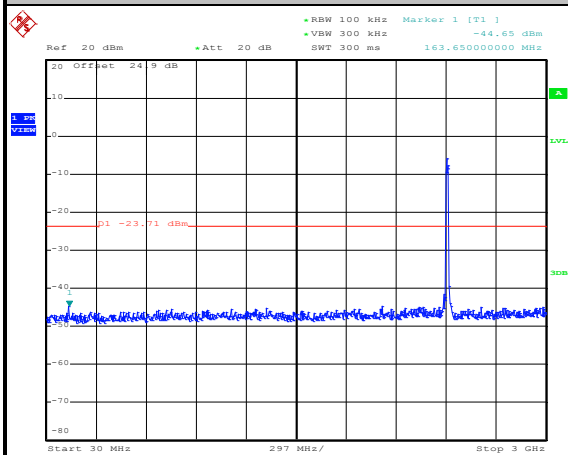
Date: 17.SEP.2014 23:18:55

Low Channel Plot



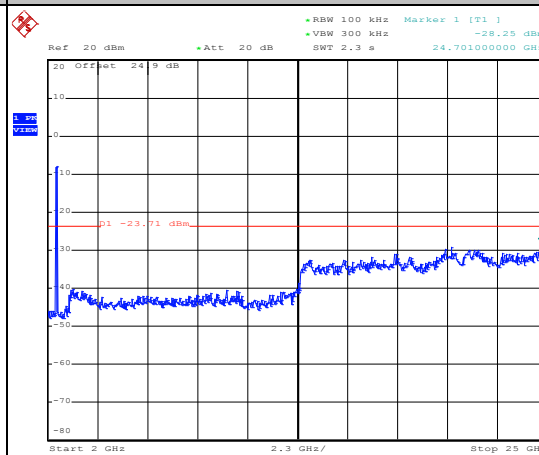
Date: 17.SEP.2014 23:21:22

Spurious Emission 30MHz~3GHz



Date: 17.SEP.2014 23:20:38

Spurious Emission 2GHz~25GHz



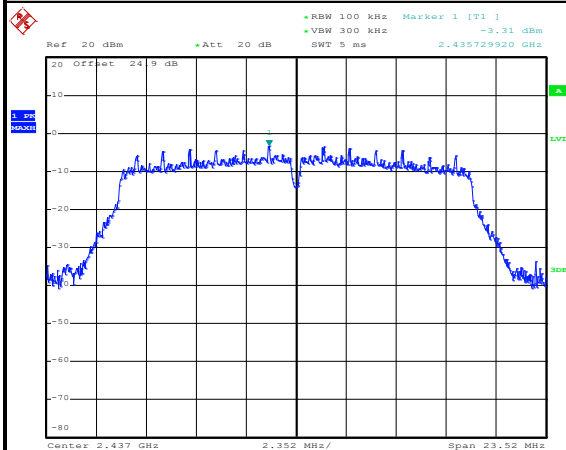
Date: 17.SEP.2014 23:20:56



| | | | |
|----------------|-------------|---------------------|----------------|
| Test Mode : | 802.11g | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Mid. | Relative Humidity : | 45~54% |
| Test Channel : | 06 | Test Engineer : | Osolemio Chang |

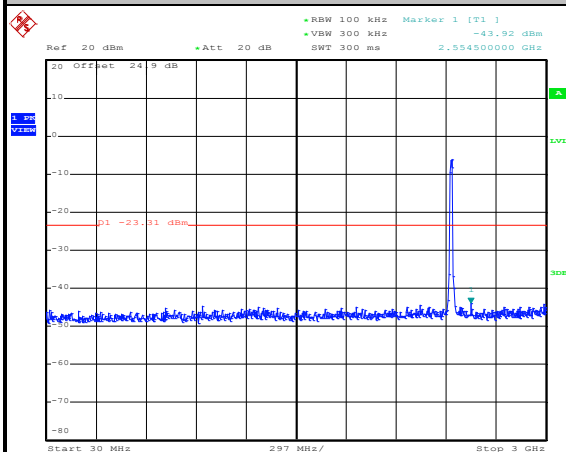
WLAN 802.11g Channel 06

100kHz PSD reference Level



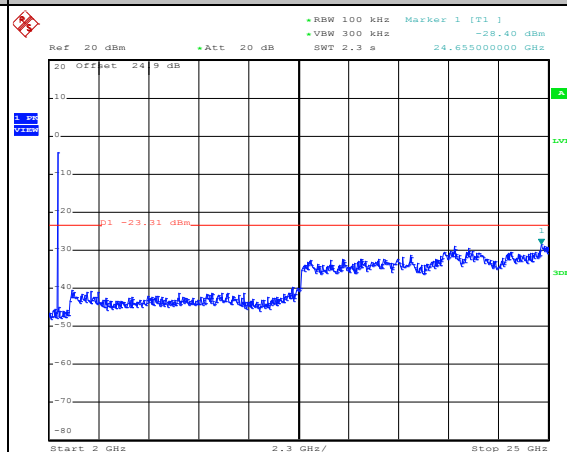
Date: 17.SEP.2014 23:25:52

Spurious Emission 30MHz~3GHz



Date: 17.SEP.2014 23:26:21

Spurious Emission 2GHz~25GHz



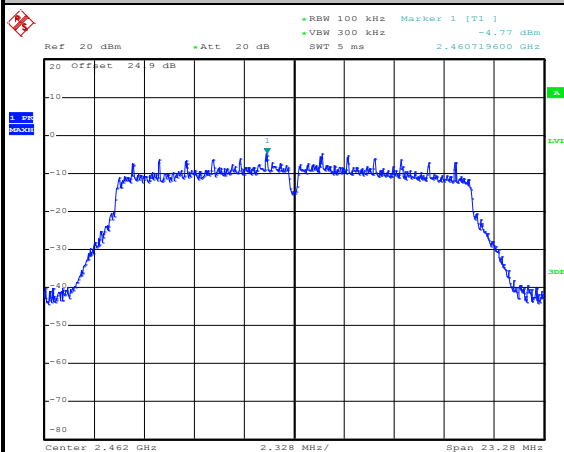
Date: 17.SEP.2014 23:26:39



| | | | |
|----------------|-------------|---------------------|----------------|
| Test Mode : | 802.11g | Temperature : | 21~26°C |
| Test Band : | 2.4GHz High | Relative Humidity : | 45~54% |
| Test Channel : | 11 | Test Engineer : | Osolemio Chang |

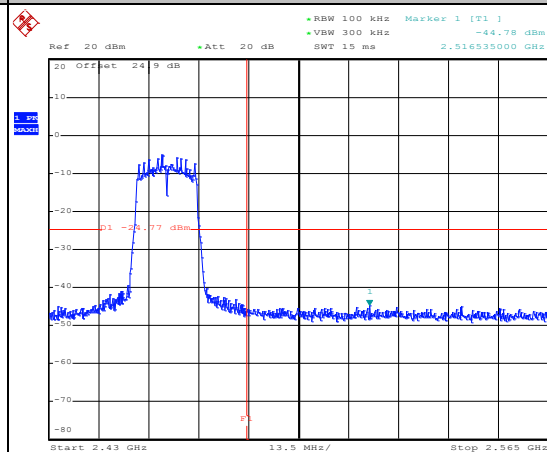
WLAN 802.11g Channel 11

100kHz PSD reference Level



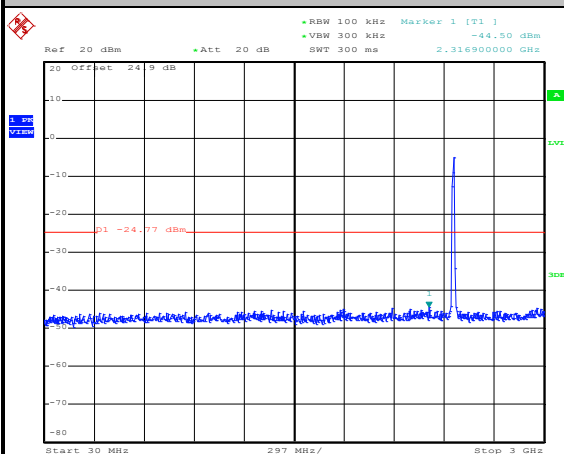
Date: 17.SEP.2014 23:34:54

High Channel Plot



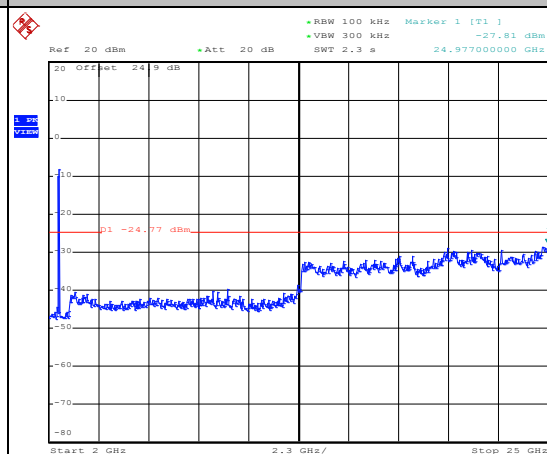
Date: 17.SEP.2014 23:35:14

Spurious Emission 30MHz~3GHz



Date: 17.SEP.2014 23:35:36

Spurious Emission 2GHz~25GHz



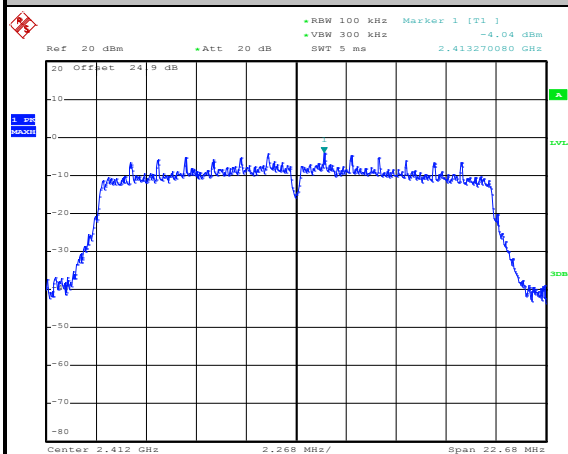
Date: 17.SEP.2014 23:35:54



| | | | |
|----------------|--------------|---------------------|----------------|
| Test Mode : | 802.11n HT20 | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Low | Relative Humidity : | 45~54% |
| Test Channel : | 01 | Test Engineer : | Osolemio Chang |

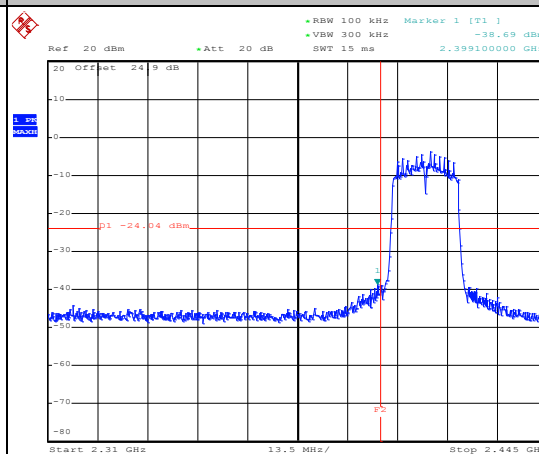
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



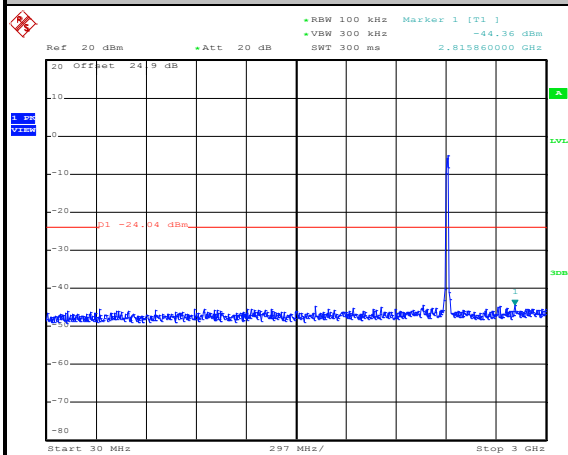
Date: 17.SEP.2014 23:55:13

Low Channel Plot



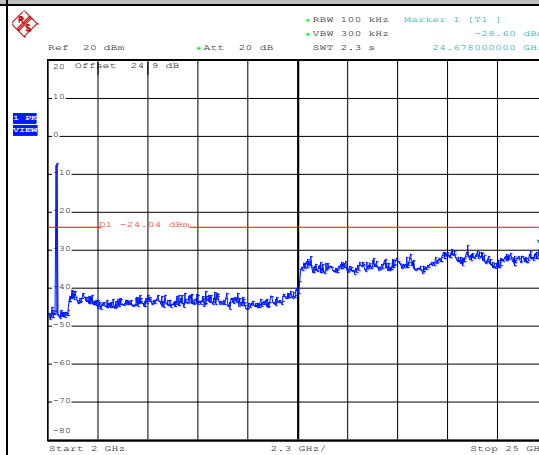
Date: 17.SEP.2014 23:56:57

Spurious Emission 30MHz~3GHz



Date: 17.SEP.2014 23:55:58

Spurious Emission 2GHz~25GHz



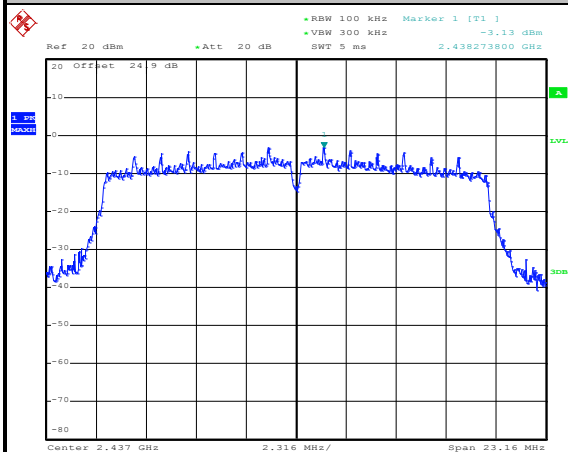
Date: 17.SEP.2014 23:56:16



| | | | |
|----------------|--------------|---------------------|----------------|
| Test Mode : | 802.11n HT20 | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Mid. | Relative Humidity : | 45~54% |
| Test Channel : | 06 | Test Engineer : | Osolemio Chang |

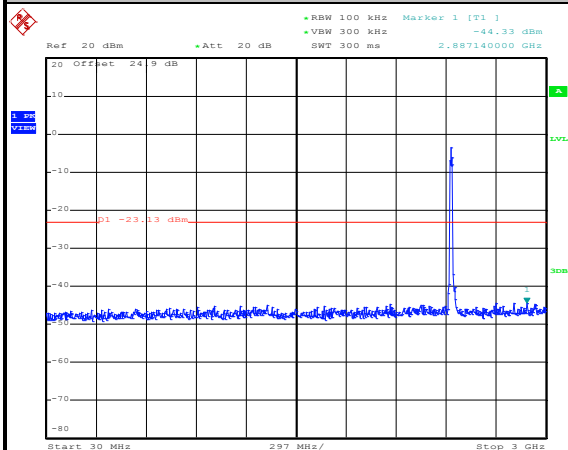
WLAN 802.11n HT20 Channel 06

100kHz PSD reference Level



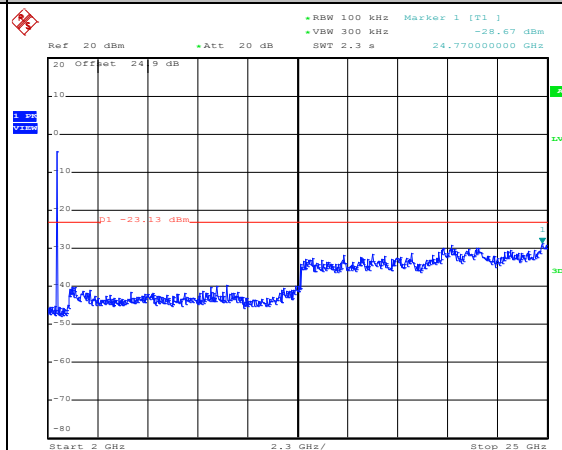
Date: 18.SEP.2014 00:00:19

Spurious Emission 30MHz~3GHz



Date: 18.SEP.2014 00:00:52

Spurious Emission 2GHz~25GHz



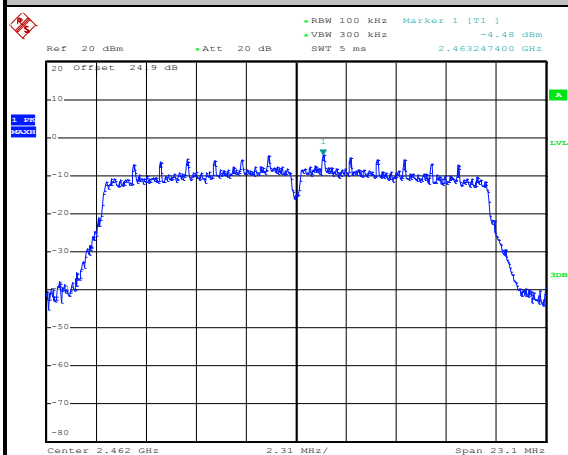
Date: 18.SEP.2014 00:01:10



| | | | |
|----------------|--------------|---------------------|----------------|
| Test Mode : | 802.11n HT20 | Temperature : | 21~26°C |
| Test Band : | 2.4GHz High | Relative Humidity : | 45~54% |
| Test Channel : | 11 | Test Engineer : | Osolemio Chang |

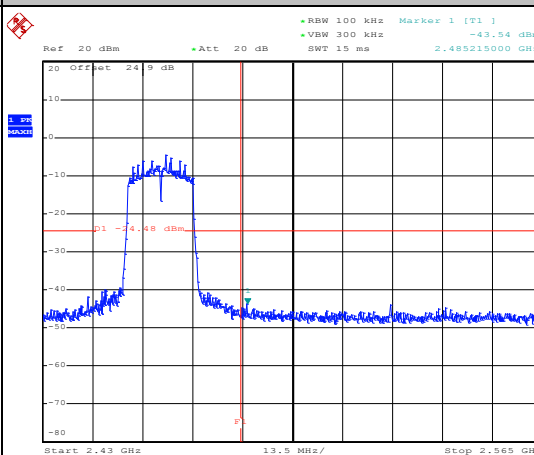
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



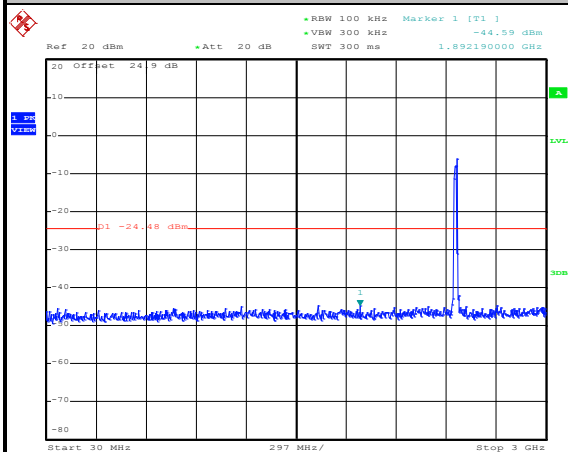
Date: 18.SEP.2014 00:05:46

High Channel Plot



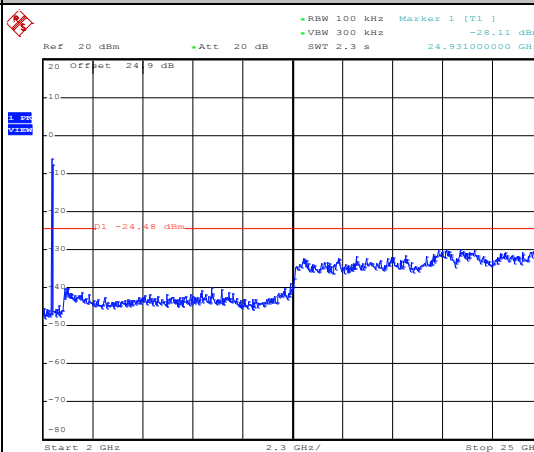
Date: 18.SEP.2014 00:06:27

Spurious Emission 30MHz~3GHz



Date: 18.SEP.2014 00:06:52

Spurious Emission 2GHz~25GHz



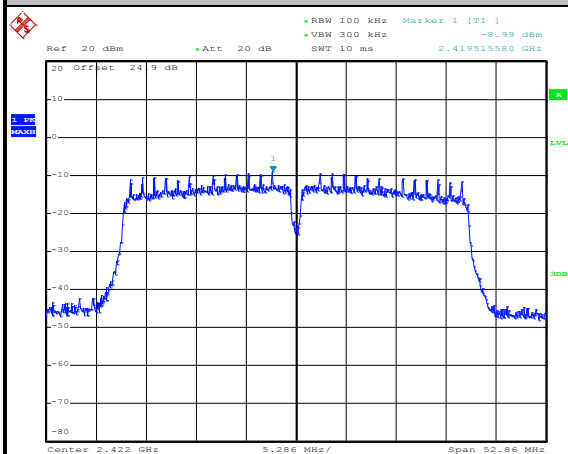
Date: 18.SEP.2014 00:07:10



| | | | |
|----------------|--------------|---------------------|----------------|
| Test Mode : | 802.11n HT40 | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Low | Relative Humidity : | 45~54% |
| Test Channel : | 03 | Test Engineer : | Osolemio Chang |

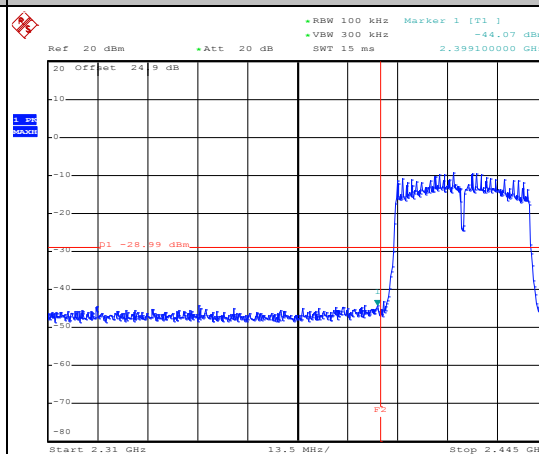
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



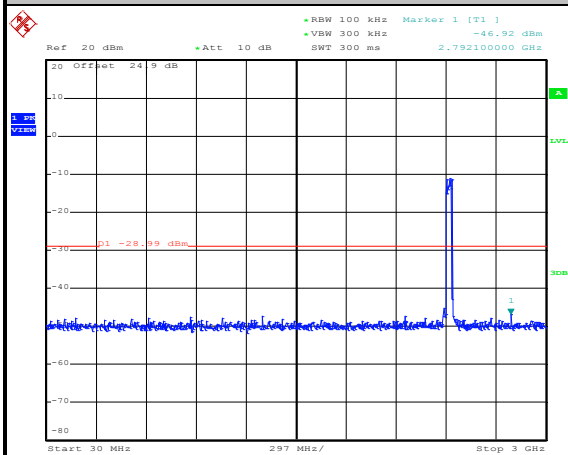
Date: 18.SEP.2014 00:11:14

Low Channel Plot



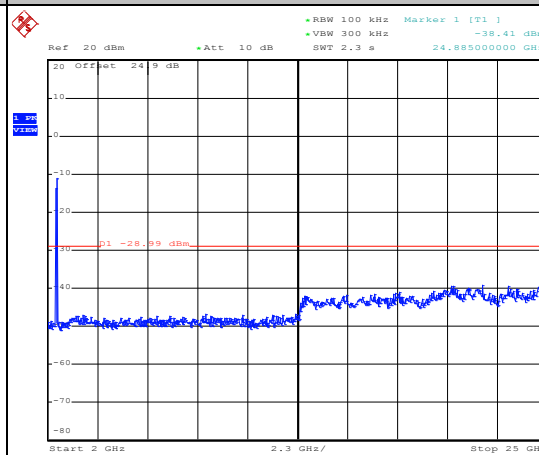
Date: 18.SEP.2014 00:13:11

Spurious Emission 30MHz~3GHz



Date: 18.SEP.2014 00:17:35

Spurious Emission 2GHz~25GHz



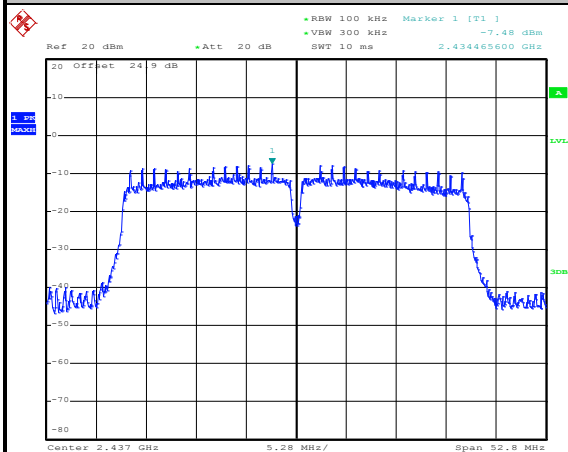
Date: 18.SEP.2014 00:17:54



| | | | |
|----------------|--------------|---------------------|----------------|
| Test Mode : | 802.11n HT40 | Temperature : | 21~26°C |
| Test Band : | 2.4GHz Mid. | Relative Humidity : | 45~54% |
| Test Channel : | 06 | Test Engineer : | Osolemio Chang |

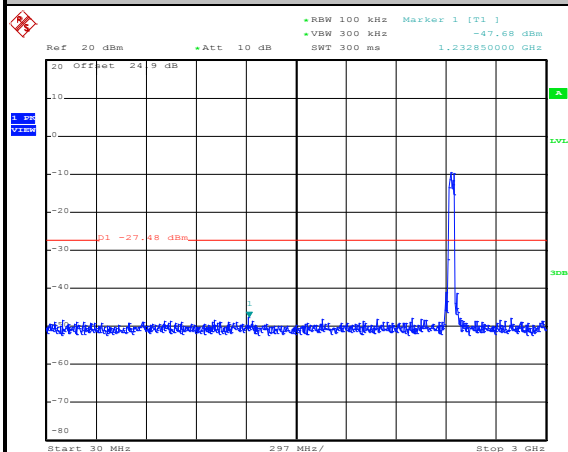
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



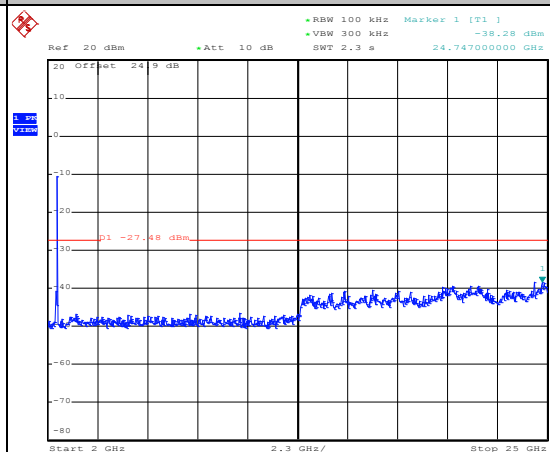
Date: 18.SEP.2014 00:21:46

Spurious Emission 30MHz~3GHz



Date: 18.SEP.2014 00:22:53

Spurious Emission 2GHz~25GHz



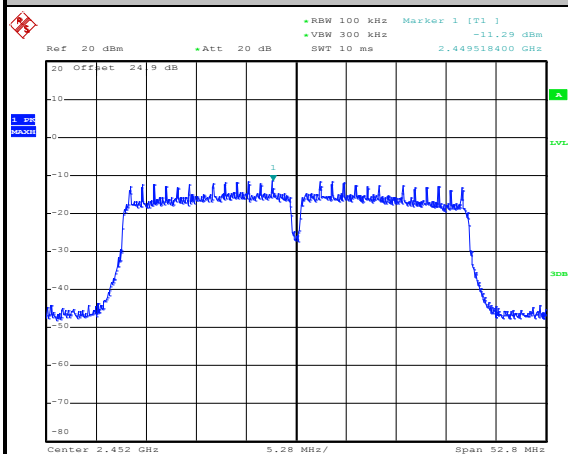
Date: 18.SEP.2014 00:23:34



| | | | |
|----------------|--------------|---------------------|----------------|
| Test Mode : | 802.11n HT40 | Temperature : | 21~26°C |
| Test Band : | 2.4GHz High | Relative Humidity : | 45~54% |
| Test Channel : | 09 | Test Engineer : | Osolemio Chang |

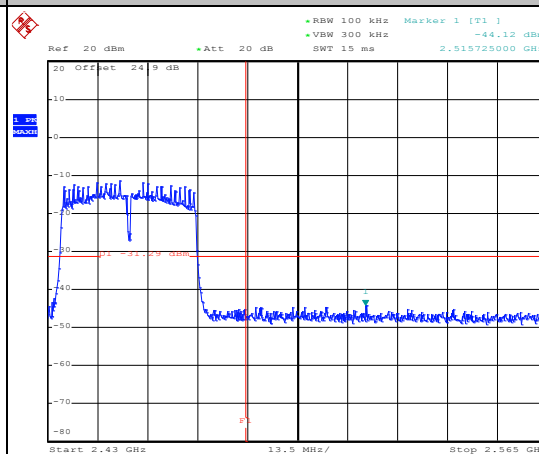
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



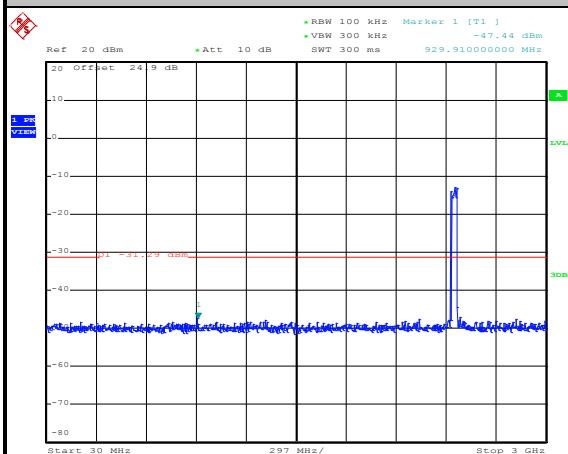
Date: 18.SEP.2014 00:28:32

High Channel Plot



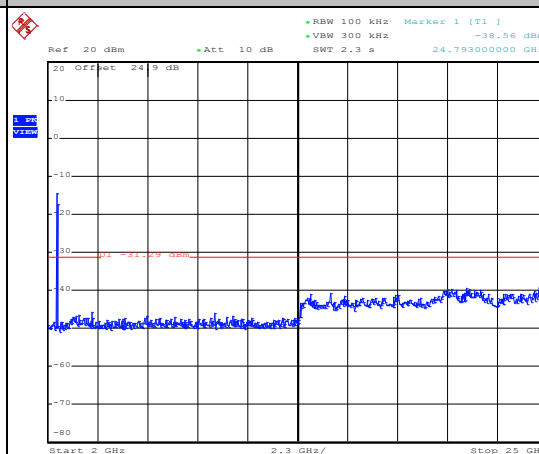
Date: 18.SEP.2014 00:29:38

Spurious Emission 30MHz~3GHz



Date: 18.SEP.2014 00:30:03

Spurious Emission 2GHz~25GHz



Date: 18.SEP.2014 00:30:21



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



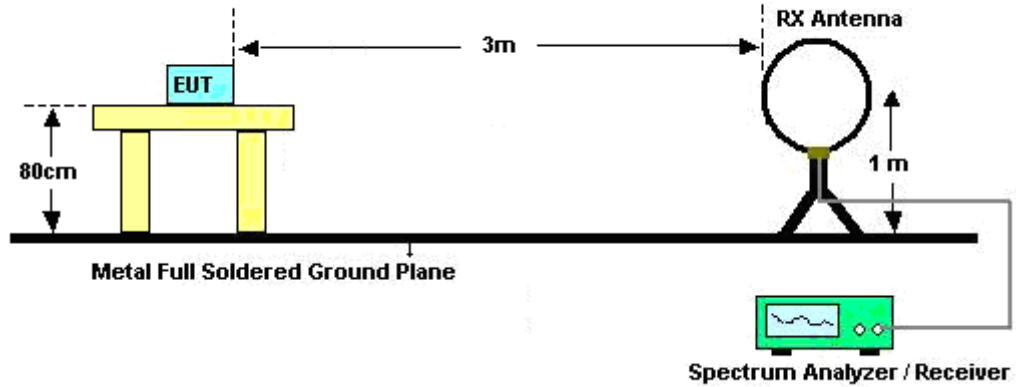
3.5.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

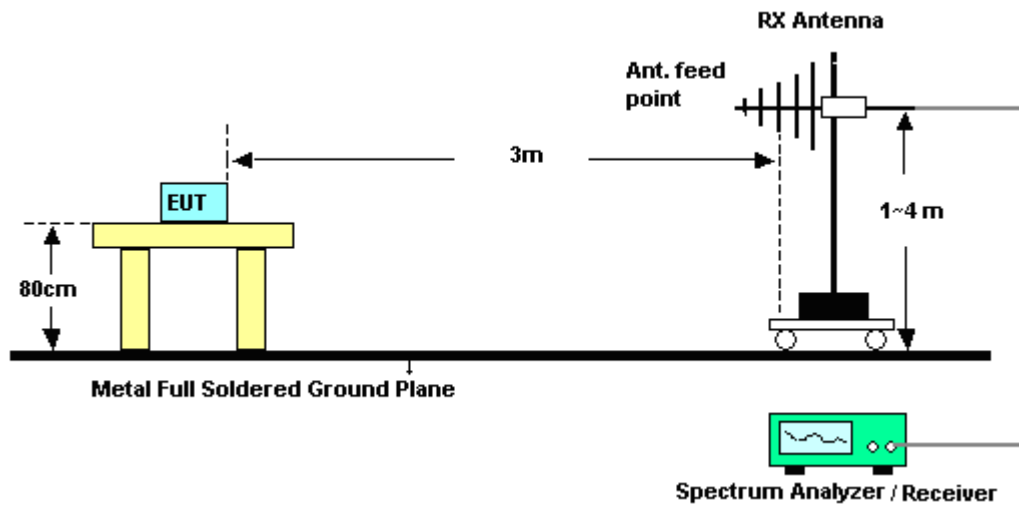
| Band | Duty Cycle(%) | T(μ s) | 1/T(kHz) | VBW Setting |
|---------------------|---------------|-------------|----------|-------------|
| 802.11b | 97.90 | 8400.00 | 0.12 | 300Hz |
| 802.11g | 89.74 | 1400.00 | 0.71 | 1kHz |
| 2.4GHz 802.11n HT20 | 87.84 | 1300.00 | 0.77 | 1kHz |
| 2.4GHz 802.11n HT40 | 79.27 | 650.00 | 1.54 | 3kHz |

3.5.4 Test Setup

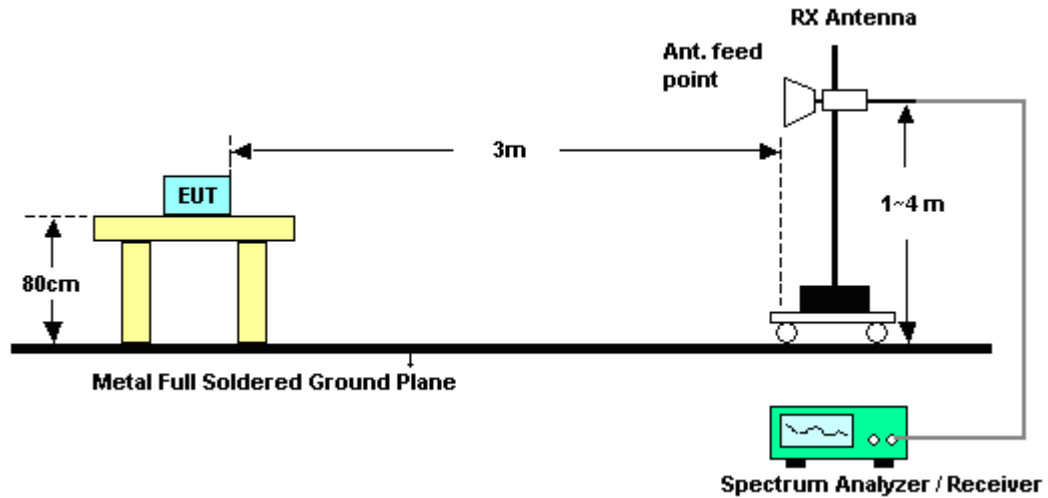
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges & Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

| | | | |
|------------------------|--------------------------|----------------------------|---------|
| Test Engineer : | Ian Liang and Bill Chang | Temperature : | 23~25°C |
| | | Relative Humidity : | 35~45% |

The test results refer Appendix B.



3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission (MHz) | Conducted Limit (dB μ V) | |
|--------------------------------|------------------------------|-----------|
| | Quasi-Peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

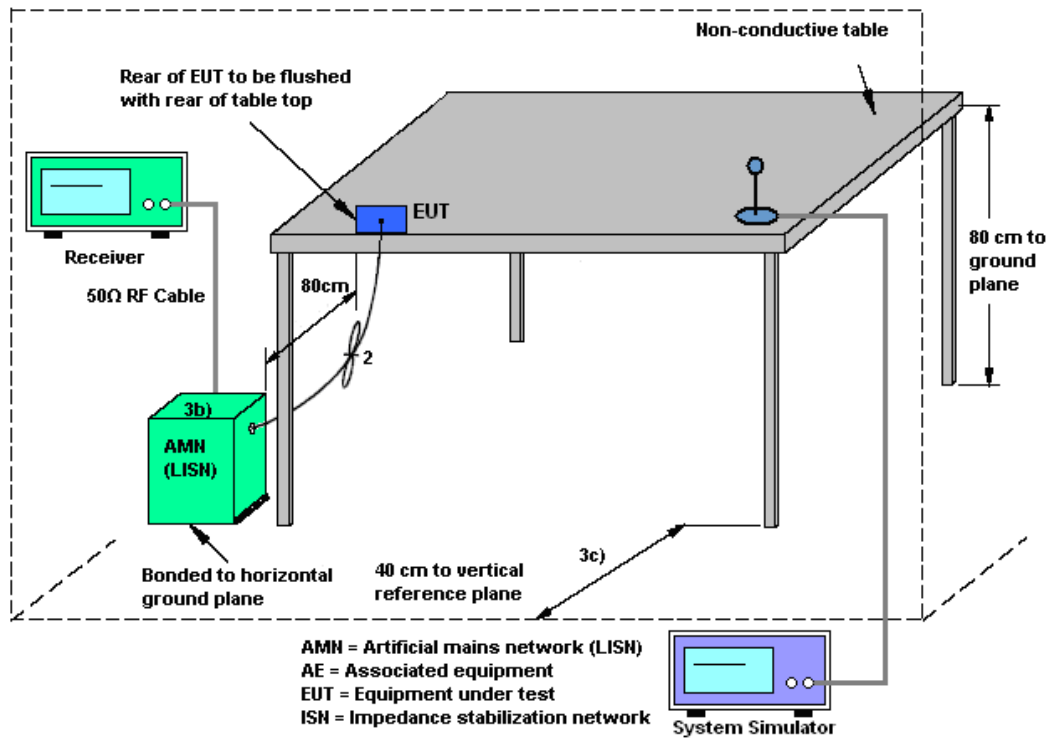
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

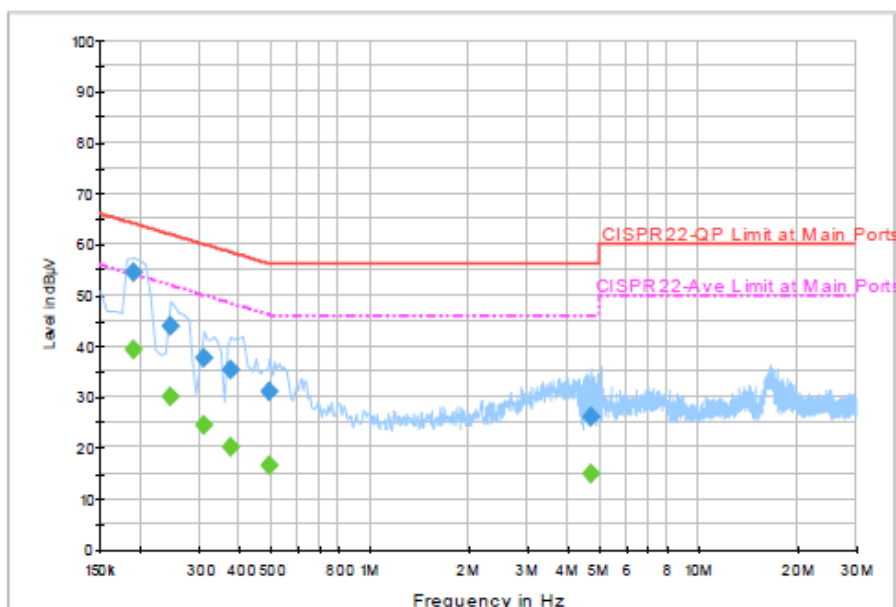
3.6.4 Test Setup





3.6.5 Test Result of AC Conducted Emission

| | | | |
|-----------------|--|---------------------|--------|
| Test Mode : | Mode 1 | Temperature : | 20~22℃ |
| Test Engineer : | Kai-Chun Chu | Relative Humidity : | 46~48% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WCDMA Band V Idle + Bluetooth Link + WLAN Link + Camera + Earphone + Battery + USB Cable (Data Link with Notebook) | | |



Final Result : Quasi-Peak

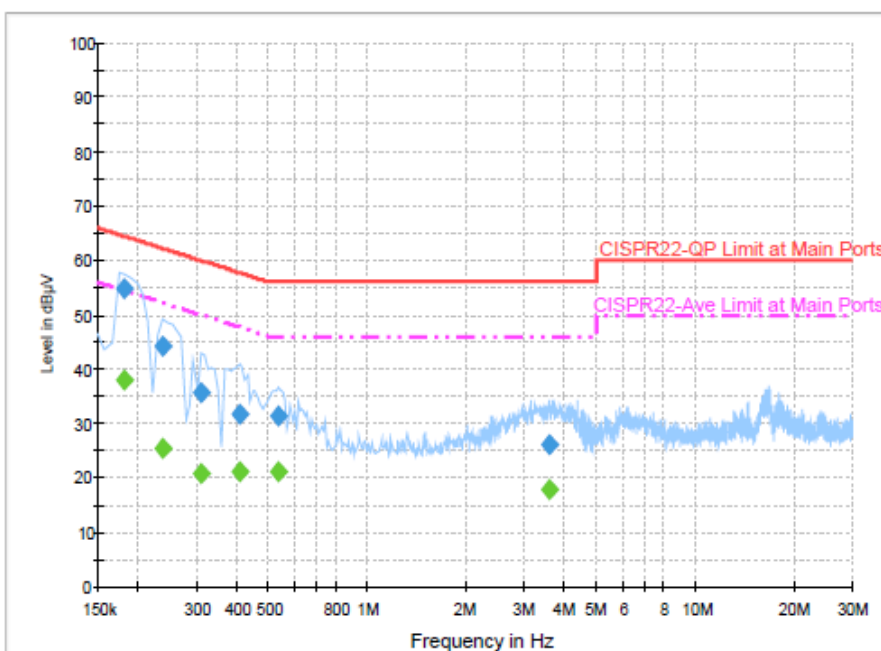
| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.190000 | 54.3 | Off | L1 | 19.3 | 9.7 | 64.0 |
| 0.246000 | 43.9 | Off | L1 | 19.4 | 18.0 | 61.9 |
| 0.310000 | 37.6 | Off | L1 | 19.4 | 22.4 | 60.0 |
| 0.374000 | 35.3 | Off | L1 | 19.4 | 23.1 | 58.4 |
| 0.494000 | 31.0 | Off | L1 | 19.4 | 25.1 | 56.1 |
| 4.662000 | 26.2 | Off | L1 | 19.6 | 29.8 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.190000 | 39.1 | Off | L1 | 19.3 | 14.9 | 54.0 |
| 0.246000 | 30.0 | Off | L1 | 19.4 | 21.9 | 51.9 |
| 0.310000 | 24.5 | Off | L1 | 19.4 | 25.5 | 50.0 |
| 0.374000 | 20.1 | Off | L1 | 19.4 | 28.3 | 48.4 |
| 0.494000 | 16.6 | Off | L1 | 19.4 | 29.5 | 46.1 |
| 4.662000 | 14.8 | Off | L1 | 19.6 | 31.2 | 46.0 |



| | | | |
|-----------------|--|---------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 20~22℃ |
| Test Engineer : | Kai-Chun Chu | Relative Humidity : | 46~48%% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | WCDMA Band V Idle + Bluetooth Link + WLAN Link + Camera + Earphone + Battery + USB Cable (Data Link with Notebook) | | |

**Final Result : Quasi-Peak**

| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.182000 | 54.7 | Off | N | 19.4 | 9.7 | 64.4 |
| 0.238000 | 44.2 | Off | N | 19.4 | 18.0 | 62.2 |
| 0.310000 | 35.8 | Off | N | 19.4 | 24.2 | 60.0 |
| 0.406000 | 31.7 | Off | N | 19.4 | 26.0 | 57.7 |
| 0.534000 | 31.4 | Off | N | 19.4 | 24.6 | 56.0 |
| 3.558000 | 26.1 | Off | N | 19.6 | 29.9 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.182000 | 38.0 | Off | N | 19.4 | 16.4 | 54.4 |
| 0.238000 | 25.3 | Off | N | 19.4 | 26.9 | 52.2 |
| 0.310000 | 20.8 | Off | N | 19.4 | 29.2 | 50.0 |
| 0.406000 | 21.1 | Off | N | 19.4 | 26.6 | 47.7 |
| 0.534000 | 21.2 | Off | N | 19.4 | 24.8 | 46.0 |
| 3.558000 | 17.8 | Off | N | 19.6 | 28.2 | 46.0 |



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|-------------------|-------------------------|-----------------|--------------------|------------------|---------------------------------|---------------|-----------------------|
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100055 | 9kHz~40GHz | Jun. 09, 2014 | Aug. 06, 2014~ Sep. 18, 2014 | Jun. 08, 2015 | Conducted (TH02-HY) |
| Power Meter | Anritsu | ML2495A | 1036004 | 300MHz~40GHz | Aug. 17, 2013 | Aug. 06, 2014~ Aug. 08, 2014 | Aug. 16, 2014 | Conducted (TH02-HY) |
| Power Meter | Anritsu | ML2495A | 1036004 | 300MHz~40GHz | Aug. 09, 2014 | Aug. 09, 2014~ Sep. 18, 2014 | Aug. 08, 2015 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 1027253 | 300MHz~40GHz | Aug. 17, 2013 | Aug. 06, 2014~ Aug. 08, 2014 | Aug. 16, 2014 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 1027253 | 300MHz~40GHz | Aug. 09, 2014 | Aug. 09, 2014~ Sep. 18, 2014 | Aug. 08, 2015 | Conducted (TH02-HY) |
| EMI Test Receiver | Agilent | N9038A | MY532900 53 | 20Hz to 26.5GHz | Jan. 08, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Jan. 07, 2015 | Radiation (03CH09-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Jul. 28, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Jul. 27, 2016 | Radiation (03CH09-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170 251 | 15GHz- 40GHz | Oct. 03, 2013 | Sep. 18, 2014~ Sep. 19, 2014 | Oct. 02, 2014 | Radiation (03CH09-HY) |
| Double Ridged Guide Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-124 1 | 1GHz ~ 18GHz | Apr. 16, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Apr. 15, 2015 | Radiation (03CH09-HY) |
| Bilog Antenna | TESEQ | CBL 6111D | 37059 | 30MHz ~ 1GHz | Jan. 23, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Jan. 22, 2015 | Radiation (03CH09-HY) |
| Preamplifier | EMEC | EM01M06G | 60584 | 100MHz ~ 6GHz | Jul. 15, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Jul. 14, 2015 | Radiation (03CH09-HY) |
| Preamplifier | EMCI | EMC051845 | SN980048 | 1GHz ~ 18GHz | Jul. 17, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Jul. 16, 2015 | Radiation (03CH09-HY) |
| Preamplifier | MITEQ | JS44-180040 00-33-8P | 1840917 | 18GHz~40GHz | Jun. 09, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Jun. 08, 2015 | Radiation (03CH09-HY) |
| Preamplifier | Sonoma-Instrument | 310 N | 187282 | 10MHz~1GHz | Apr. 28, 2014 | Sep. 18, 2014~ Sep. 19, 2014 | Apr. 27, 2015 | Radiation (03CH09-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100057 | 9kHz~40GHz | Oct. 23, 2013 | Sep. 18, 2014~ Sep. 19, 2014 | Oct. 22, 2014 | Radiation (03CH09-HY) |
| Turn Table | ChainTek | T-200S | 1308028 | 0~360 deg | N/A | Sep. 18, 2014~ Sep. 19, 2014 | N/A | Radiation (03CH09-HY) |
| Antenna Mast | ChainTek | MBS-400 | 1308049 | 1m~4m | N/A | Sep. 18, 2014~ Sep. 19, 2014 | N/A | Radiation (03CH09-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESCS 30 | 100356 | 9kHz ~ 2.75GHz | Nov. 15, 2013 | Aug. 05, 2014 | Nov. 14, 2014 | Conduction (CO05-HY) |
| LISN (for auxiliary equipment) | Rohde & Schwarz | ENV216 | 100081 | 9kHz ~ 30MHz | Dec. 12, 2013 | Aug. 05, 2014 | Dec. 11, 2014 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz ~ 30MHz | Dec. 04, 2013 | Aug. 05, 2014 | Dec. 03, 2014 | Conduction (CO05-HY) |
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | Aug. 05, 2014 | N/A | Conduction (CO05-HY) |



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.26 |
|---|------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.7 |
|---|-----|