

FCC ID TEST REPORT

| Prepared for: | SHENZHEN BAMBOO FOREST TECHNOLOGY CO.,LTD. | | | |
|-------------------------------|--|--|--|--|
| Address: | Room702, Rujun Building, Banxuegang Rd., Bantian subdistrict, Longgang, Shenzhen, China | | | |
| Equipment Under Test(E.U.T.): | Tablet PC | | | |
| Model: | KP-701 | | | |
| FCC ID | 2ADMSKP701 | | | |
| Applicable Standards: | :: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013 KDB 558074 D01 DTS Meas Guidance v03r02 | | | |
| Test Date: | 17 November 2014 to 02 December 2014 | | | |
| Issued Date: | 03 December 2014 | | | |
| Report Number: | POCE14101035URF | | | |
| Test Engineer: | Din Jing | | | |
| Reviewed By: | - / | | | |
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The results detailed in this test report relate only to the specific sample(s) tested. It is the Application's responsibility to ensure that all production units are manufactured with equivalent EMC characteristics. This report is not to be reproduced except in full, without written approval from Shenzhen POCE Technology Co., Ltd..

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| H Building Hongfa science and Tachnology Park, Tangton Shiyan Bao'an District Shanzhan China | |

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1.0 General Information

1.1 Client Details

| Applicant: | SHENZHEN BAMBOO FOREST TECHNOLOGY CO.,LTD. | |
|---------------|---|--|
| Address: | Room702, Rujun Building, Banxuegang Rd., Bantian subdistrict, Longgang, Shenzhen, | |
| | China | |
| Manufacturer: | SHENZHEN BAMBOO FOREST TECHNOLOGY CO.,LTD. | |
| Address: | Room702, Rujun Building, Banxuegang Rd., Bantian subdistrict, Longgang, Shenzhen, | |
| | China | |

1.2 Test Lab Details

| Name: | Shenzhen POCE Technology Co.,Ltd. | |
|------------|--|--|
| Address: | Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen, | |
| | China | |
| Telephone: | 86-755-29113252 | |
| Fax: | 86-755-29113135 | |

Site Listed with Federal Communication Commission

Registration Number: 222278

For 3m chamber

1.3 Description of E.U.T.

| Product: | Tablet PC | | |
|----------------------|---|--|--|
| Model No.: | KP-701 | | |
| | | | |
| Additional Model No. | KP-702, KP-703, KP-601, KP-713, KP-803, KP-805, KP-903, KP-973, KP-111, | | |
| | KP-107, KP-108 | | |
| Brand Name: | LOYE | | |
| Operation Frequency: | IEEE 802.11b: 2412-2462 MHz | | |
| | IEEE 802.11g: 2412-2462 MHz | | |
| | IEEE 802.11n: 2412-2462 MHz(HT 20), 2422-2452 MHz(HT 40) | | |
| Channel number: | IEEE 802.11b/g: 11, IEEE 802.11n: 11(HT 20), 7(HT 40) | | |
| Channel spacing: | 5 MHz | | |
| Modulation Type: | IEEE 802.11b: DSSS | | |
| | IEEE 802.11g: OFDM | | |
| | IEEE 802.11n: OFDM | | |
| Antenna Designation: | An integral antenna and the maximum gain is 0 dBi | | |
| Power supply: | DC 3.7V by battery or, | | |
| | DC 5V from adapter by AC 120V/60Hz. | | |
| | Adapter information: | | |
| | Model: HT-003-050200 | | |
| | Input: AC 110-240V 50/60Hz | | |
| | Output: DC 5V, 2A | | |

Shenzhen POCE Technology Co., Ltd.

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Tables of carriers frequency

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

Note: For 20 MHz bandwidth system use Channel 1 to Channel 11; For 40 MHz bandwidth system use Channel 1 to Channel 9.

Test Information

The test software was used to control E.U.T. work in Continuous Tx mode (>98% duty cycle), and select test channel, wireless mode and data rate.

| Test mode, channel and data rate information | | | | | |
|--|-------------|-----------------|------------------|--|--|
| Mode | Channel | Frequency (MHz) | Date Rate (Mbps) | | |
| IEEE 802.11b | Low :CH1 | 2412 | 1 | | |
| | Middle: CH6 | 2437 | 1 | | |
| | High: CH11 | 2462 | 1 | | |
| IEEE 802.11g | Low:CH1 | 2412 | 6 | | |
| | Middle: CH6 | 2437 | 6 | | |
| | High: CH11 | 2462 | 6 | | |
| IEEE 802.11n | Low:CH1 | 2412 | MSC0 | | |
| (HT 20) | Middle: CH6 | 2437 | MSC0 | | |
| | High: CH11 | 2462 | MSC0 | | |
| IEEE 802.11n | Low :CH3 | 2422 | MSC0 | | |
| (HT 40) | Middle: CH6 | 2437 | MSC0 | | |
| | High: CH9 | 2452 | MSC0 | | |

Remark: According to exploratory test, E.U.T. will have maximum output power in those data rate, so those data rate were used for all tests.

1.4 AE used during the test

| Equipment type | Model | Manufacturer | FCC Approval |
|----------------|-------|--------------|--------------|
| N.A. | | | |
| N.A. | | | |
| N.A. | | | |

2.0 Test Summary

| Section in CFR 47 | Test Item | Result | |
|------------------------------------|----------------------------------|----------|--|
| 15.203,15.247(c) | Antenna Requirement | Complies | |
| 15.207(a) | AC Power Line Conducted Emission | Complies | |
| 15.247(b)(3) | Maximum Peak Output Power | Complies | |
| 15.247 (a)(2) | 6 dB bandwidth | Complies | |
| 15.247(e) | Maximum Power Density | Complies | |
| 15.247 (d), 15.205 (a), 15.209 (a) | Band age Measurement | Complies | |
| 15.209 | Radiated Emission | Complies | |

3.0 E.U.T. Modification

No modification by Shenzhen POCE Technology Co., Ltd.

4.0 Measurement Uncertainty

(95% confidence levels, k=2)

| No. | Item | MU |
|-----|-------------------------------|------------------------|
| 1. | Radio Frequency | $\pm 1 \times 10^{-9}$ |
| 2. | Temperature | ±0.1℃ |
| 3. | Humidity | $\pm 1.0\%$ |
| 4. | RF power, conducted | ±0.34dB |
| 5. | Spurious emissions, conducted | ±2.72dB |
| 6. | All emissions, radiated | ±3.84dB |

5.0 Antenna Requirement

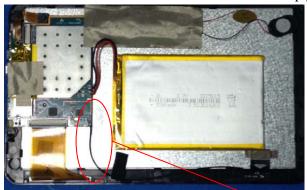
5.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

5.2 Antenna Specification

According to the manufacturer declared, the E.U.T. has an integral antenna; and no consideration of replacement. Therefore the E.U.T. is considered sufficient to comply with the provision.



▲ ANTENNA

6.0 Power Line Conducted Emission Test

6.1 Test Equipment

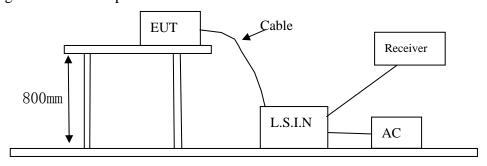
| Instrument Type | Model | Serial No. | Manufacturer | Date of Cal. | Due Date |
|-------------------|---------|-------------|--------------|---------------|---------------|
| EMI Test Receiver | ESCI | 1166.590.03 | R&S | Nov. 09, 2014 | Nov. 08, 2015 |
| LISN | ESH3-Z5 | 831.5518.52 | R&S | Nov. 09, 2014 | Nov. 08, 2015 |

6.2 Test Method and test Procedure

The E.U.T. was tested according to ANSI C63.10-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated.

Test Voltage: 120V~, 60Hz

6.3 Block diagram of Test setup



6.4 E.U.T. Operating Condition

Operating condition is according to ANSI C63.10 -2009

- 1) Setup the E.U.T. and simulators as shown on the following
- 2) Enable AF signal and confirm E.U.T. active to normal condition

6.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency(MHz) | Class A Lir | nits (dB \mu V) | Class B Limits (dB μ V) | | |
|-------------------|------------------|-----------------|-----------------------------|---------------|--|
| | Quasi-peak Level | Average Level | Quasi-peak Level | Average Level | |
| $0.15 \sim 0.50$ | 79.0 | 66.0 | 66.0~56.0* | 56.0~46.0* | |
| $0.50 \sim 5.00$ | 73.0 | 60.0 | 56.0 | 46.0 | |
| $5.00 \sim 30.00$ | 73.0 | 60.0 | 60.0 | 50.0 | |

Notes: 1) *Decreasing linearly with logarithm of frequency.

2) The tighter limit shall apply at the transition frequencies

6.6 Test specification

Environmental conditions: Temperature: 25° C Humidity: 50% Atmospheric pressure: 103kPa

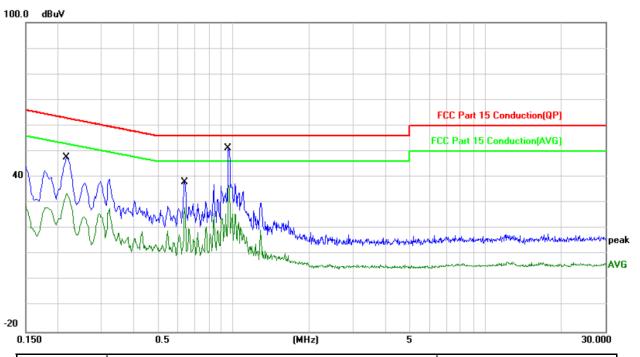
6.7 Test Result

Pass

Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

| E.U.T. Description: | Tablet PC |
|---------------------|------------------|
| Operation Mode: | Tx mode |
| Tested By: | Bill |
| Test Date: | 18 November 2014 |

| Start Frequency | Stop Frequency | Step | IF BW | Detector | Final M-Time |
|-----------------|----------------|--------|-------|----------|--------------|
| 0.15MHz | 30MHz | 4.5KHz | 10KHz | QP+AV | 1s |

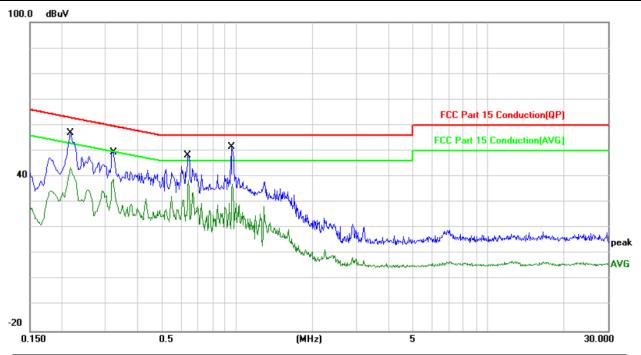


| Eraguanav | | Reading | Limit | | | |
|-----------------|------------|---------|------------|---------|------------|---------|
| Frequency (MHz) | Line | Line | | Neutral | | V) |
| (WITIZ) | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average |
| 0.2179 | 44.32 | 33.67 | | | 62.89 | 52.89 |
| 0.6408 | 36.61 | 27.88 | | | 56.00 | 46.00 |
| 0.9561 | 46.27 | 30.89 | | | 56.00 | 46.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

| E.U.T. Description: | Tablet PC |
|---------------------|------------------|
| Operation Mode: | Tx mode |
| Tested By: | Bill |
| Test Date: | 18 November 2014 |

| Start Frequency | Stop Frequency | Step | IF BW | Detector | Final M-Time |
|-----------------|----------------|--------|-------|----------|--------------|
| 0.15MHz | 30MHz | 4.5KHz | 10KHz | QP+AV | 1s |



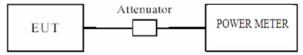
| Fraguenay | | Reading(dB \mu V) | | | | Limit | |
|-----------------|------------|-------------------|------------|---------|--------------|---------|--|
| Frequency (MHz) | Line | | Neutral | | $(dB \mu V)$ | | |
| (WITIZ) | Quasi-peak | Average | Quasi-peak | Average | Quasi-peak | Average | |
| 0.2177 | | | 45.79 | 35.06 | 62.90 | 52.90 | |
| 0.3205 | | | 44.51 | 35.95 | 59.69 | 49.69 | |
| 0.6389 | | | 45.38 | 36.57 | 56.00 | 46.00 | |
| 0.9723 | | | 47.12 | 36.01 | 56.00 | 46.00 | |
| | | | | | | | |
| | | | | | | | |

7.0 Maximum Peak Output Power

7.1 Test Equipment

| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
|---------------------------|--------------|--------|------------|---------------|---------------|
| EPM-P Series Power Meter | Agilent | E4416A | MY45101555 | Aug. 20, 2014 | Aug. 19, 2015 |
| Peak and Avg Power Sensor | Agilent | E9327A | MY44421198 | Aug. 20, 2014 | Aug. 19, 2015 |

7.2 Test configuration



7.3 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

7.4 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02, the transmitter output was connected to the Power Meter. The Power Meter has a video bandwidth that is greater than or equal to the DTS bandwidth and utilizes a fast-responding diode detector.

7.5 Test Result

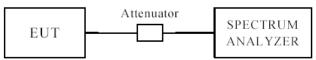
| WiFi mode | Test channel | Peak output power (dBm) | Limit (dBm) | Result |
|--------------|--------------|-------------------------|-------------|--------|
| | Lowest | 4.26 | 30 | Pass |
| IEEE 802.11b | Middle | 6.21 | 30 | Pass |
| | Highest | 5.46 | 30 | Pass |
| | Lowest | 7.35 | 30 | Pass |
| IEEE 802.11g | Middle | 8.87 | 30 | Pass |
| | Highest | 9.02 | 30 | Pass |
| IEEE 802.11n | Lowest | 7.01 | 30 | Pass |
| (HT20) | Middle | 8.16 | 30 | Pass |
| (H120) | Highest | 8.37 | 30 | Pass |
| IEEE 802.11n | Lowest | 7.39 | 30 | Pass |
| | Middle | 8.85 | 30 | Pass |
| (HT40) | Highest | 8.29 | 30 | Pass |

8.0 6dB Bandwidth Measurement

8.1 Test Equipment

| Instrument Type | Model | Serial No. | Manufacturer | Date of Cal. | Due Date |
|-------------------|-------|------------|---------------|---------------|---------------|
| Spectrum Analyzer | FSEM | 848597/001 | ROHDE&SCHWARZ | Nov. 09, 2014 | Nov. 08, 2015 |

8.2 Test configuration



8.3 Limits of 6dB Bandwidth Measurement

The minimum of 6 dB Bandwidth is >500 kHz

8.4 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02, the transmitter output was connected to the spectrum analyzer through an attenuator. The spectrum analyzer is setting as follows: RBW=100 kHz,

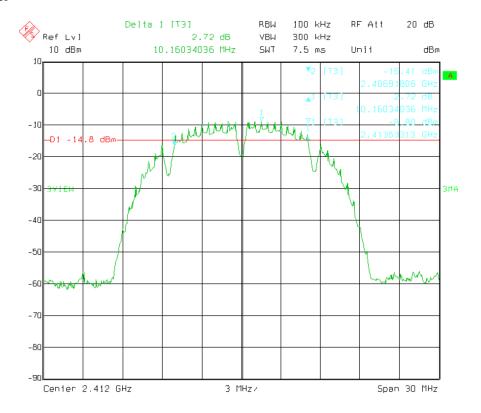
VBW=300 kHz, Detector=Peak, Trace mode=max hold, Sweep=auto couple. The 6dB bandwidth is defined as the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

8.5 Test Result

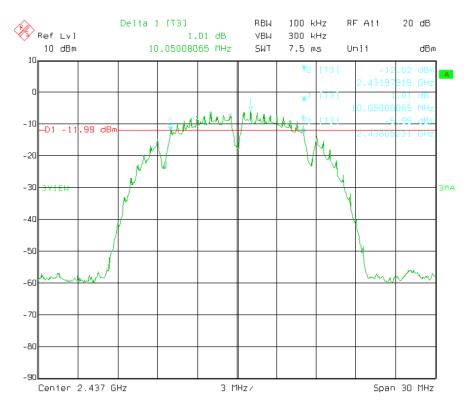
| WiFi mode | Test channel | 6 dB occupied bandwidth (MHz) | Limit (kHz) | Result |
|--------------|--------------|-------------------------------|-------------|--------|
| | Lowest | 10.16 | 500 | Pass |
| IEEE 802.11b | Middle | 10.05 | 500 | Pass |
| | Highest | 10.12 | 500 | Pass |
| | Lowest | 16.24 | 500 | Pass |
| IEEE 802.11g | Middle | 16.42 | 500 | Pass |
| | Highest | 16.36 | 500 | Pass |
| IEEE 802.11n | Lowest | 17.38 | 500 | Pass |
| (HT20) | Middle | 17.60 | 500 | Pass |
| (H120) | Highest | 17.66 | 500 | Pass |
| IEEE 802.11n | Lowest | 36.00 | 500 | Pass |
| | Middle | 36.12 | 500 | Pass |
| (HT40) | Highest | 36.36 | 500 | Pass |

IEEE 802.11b mode

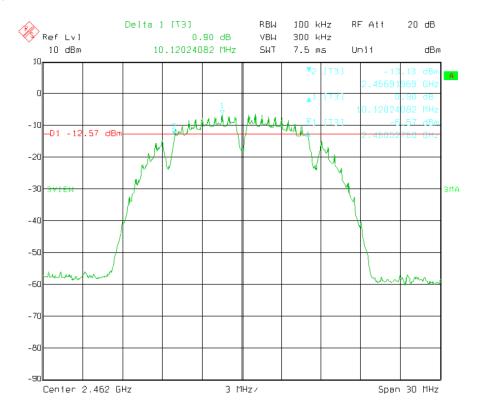
Low channel



Middle channel

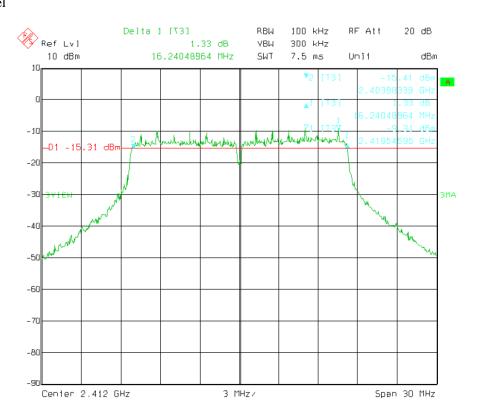


High channel

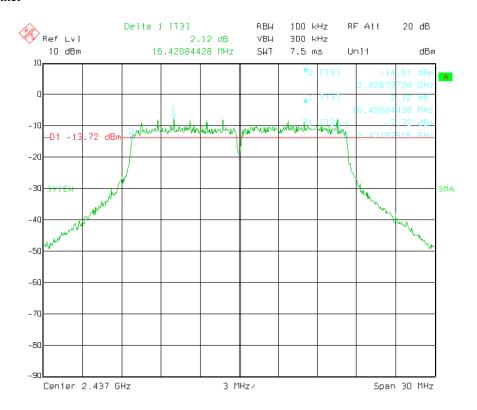


IEEE 802.11g mode

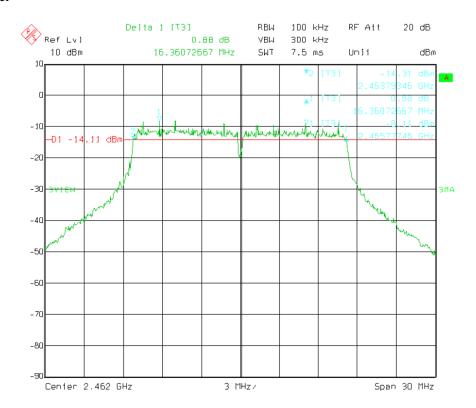
Low channel



Middle channel

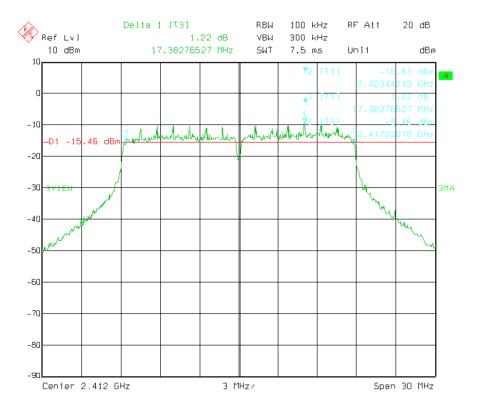


High channel

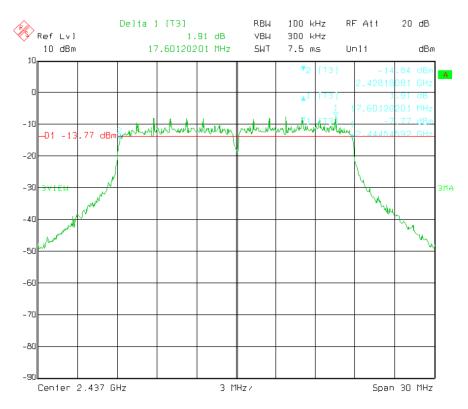


IEEE 802.11n (HT20) mode

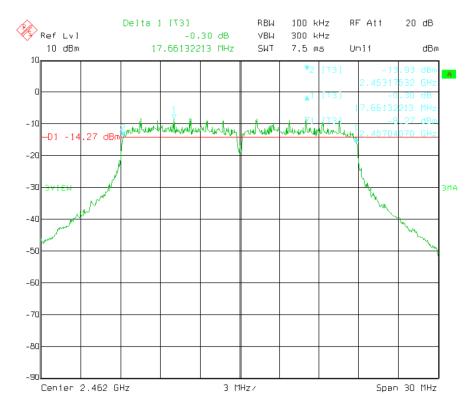
Low channel



Middle channel

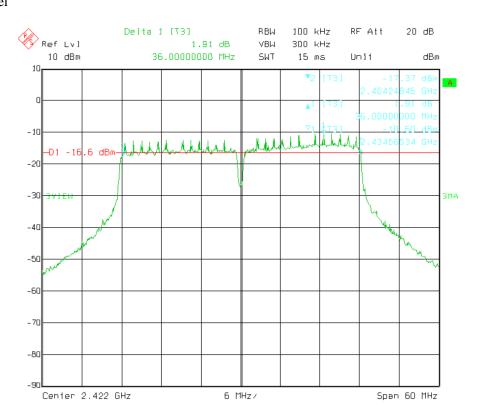


High channel

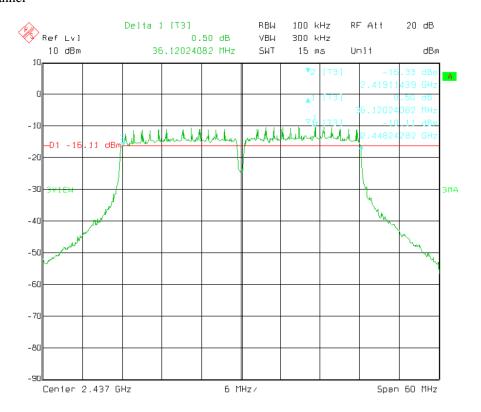


IEEE 802.11n (HT40) mode

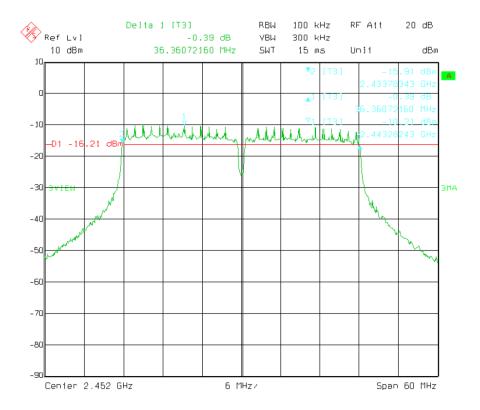
Low channel



Middle channel



High channel

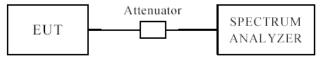


9.0 Power Spectral Density Measurement

9.1 Test Equipment

| Instrument Type | Model | Serial No. | Manufacturer | Date of Cal. | Due Date |
|-------------------|-------|------------|---------------|---------------|---------------|
| Spectrum Analyzer | FSEM | 848597/001 | ROHDE&SCHWARZ | Nov. 09, 2014 | Nov. 08, 2015 |

9.2 Test configuration



9.3 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density is 8 dBm in any 3 kHz.

9.4 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02, the transmitter output was connected to the spectrum analyzer through an attenuator.

The spectrum analyzer is setting as follows:

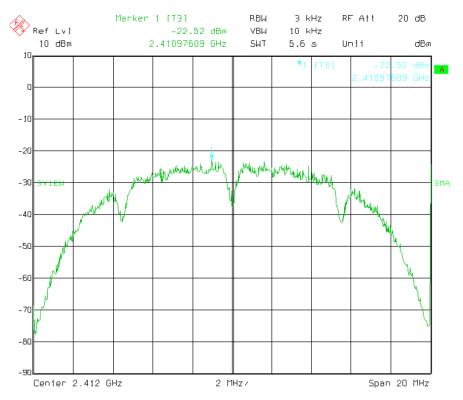
- 1) Set analyzer centre frequency to DTS channel centre frequency.
- 2) Set the span to 1.5 times the DTS channel bandwidth.
- 3) Set the RBW>=3 kHz.
- 4) Set the VBW>=3*RBW.
- 5) Detector=peak.
- 6) Sweep time=auto couple.
- 7) Trace mode=max hold.
- 8) Allow trace to fully stabilize.
- 9) Use the peak marker function to determine the maximum amplitude level.
- 10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.5 Test Result

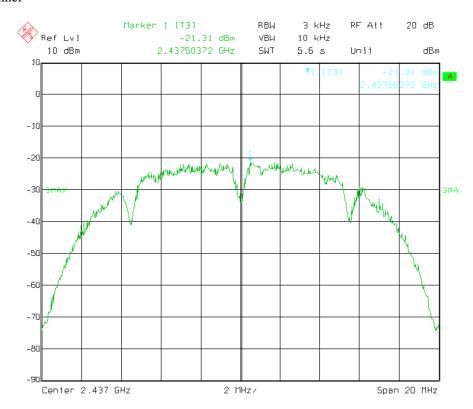
| WiFi mode | Test channel | Peak Power Spectral Density (dBm) | Limit (dBm) | Result |
|------------------------|--------------|-----------------------------------|-------------|--------|
| | Lowest | -22.52 | 8 | Pass |
| IEEE 802.11b | Middle | -21.31 | 8 | Pass |
| | Highest | -21.33 | 8 | Pass |
| | Lowest | -23.62 | 8 | Pass |
| IEEE 802.11g | Middle | -21.92 | 8 | Pass |
| | Highest | -22.77 | 8 | Pass |
| IEEE 902 11 | Lowest | -24.52 | 8 | Pass |
| IEEE 802.11n (HT20) | Middle | -22.72 | 8 | Pass |
| (H120) | Highest | -23.12 | 8 | Pass |
| IEEE 802.11n | Lowest | -25.52 | 8 | Pass |
| (HT40) | Middle | -24.72 | 8 | Pass |
| (11140) | Highest | -26.26 | 8 | Pass |

IEEE 802.11b mode

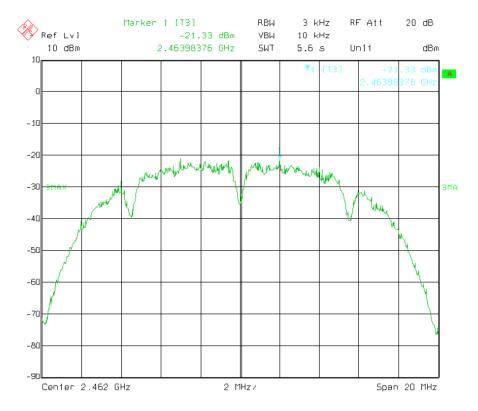
Low channel



Middle channel

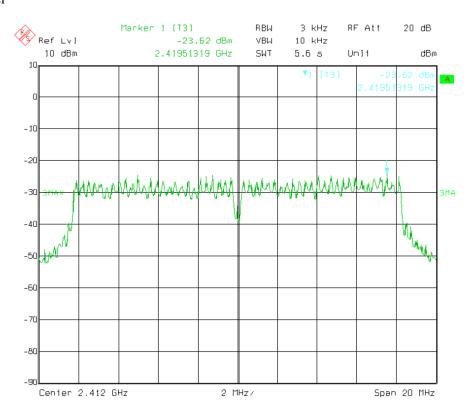


High channel

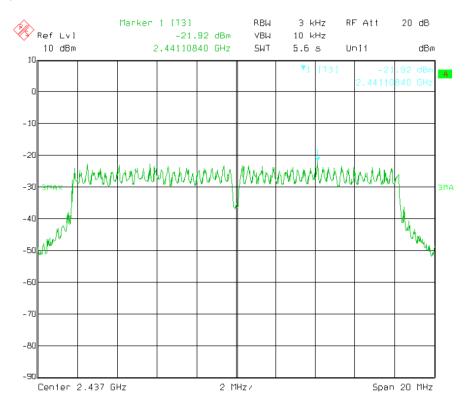


IEEE 802.11g mode

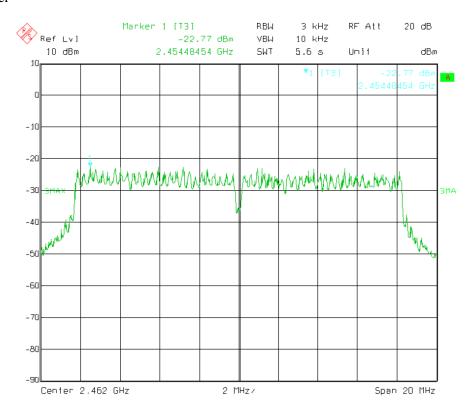
Low channel



Middle channel

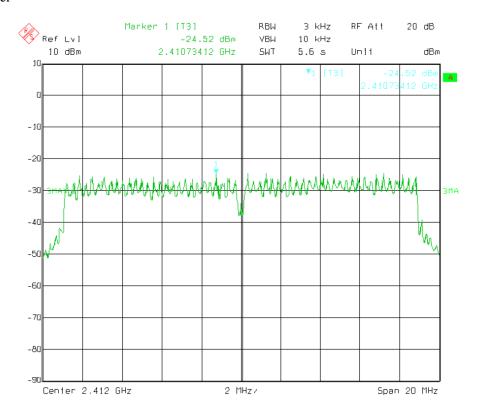


High channel

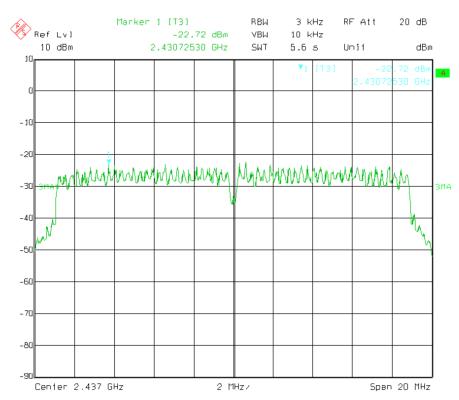


IEEE 802.11n (HT20) mode

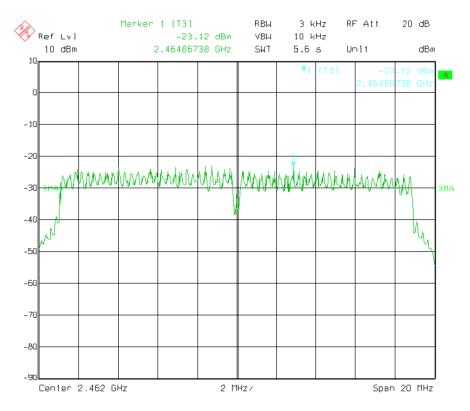
Low channel



Middle channel

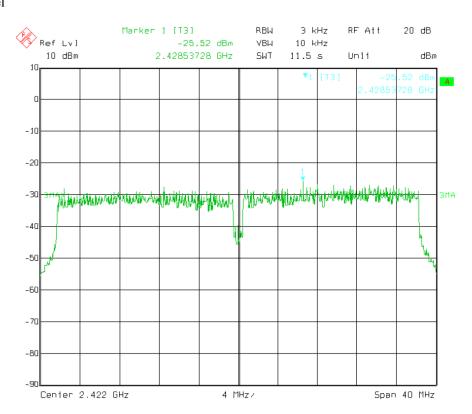


High channel

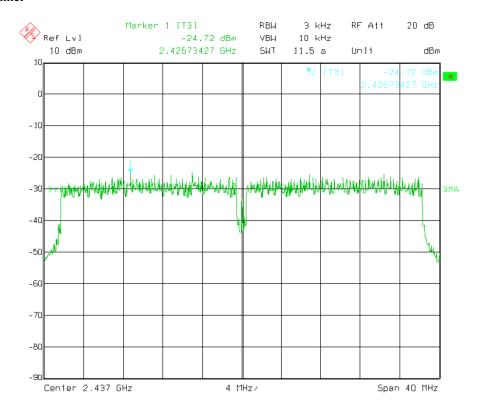


IEEE 802.11n (HT40) mode

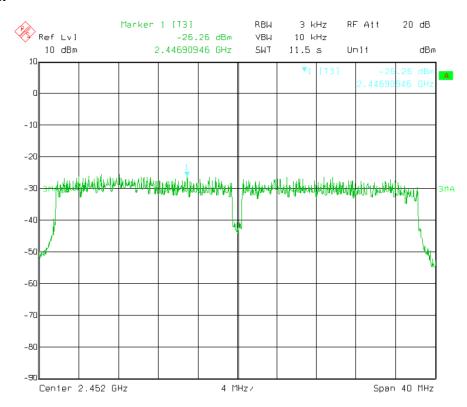
Low channel



Middle channel



High channel



10.0 Band age Measurement

10.1 Test Equipment

| Instrument Type | Model | Serial No. | Serial No. Manufacturer | | Due Date |
|-------------------|-------|--------------------------|-------------------------|---------------|---------------|
| Spectrum Analyzer | FSEM | 848597/001 ROHDE&SCHWARZ | | Nov. 09, 2014 | Nov. 08, 2015 |
| Pre-amplifier | 8449B | 3008A01738 Agilent | | Aug. 20, 2014 | Aug. 19, 2015 |
| Horn Antenna | 3117 | | ETS LINDGREN | Aug. 20, 2014 | Aug. 19, 2015 |

10.2 Limit

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 15.209(a)

10.3 Test specification

Environmental conditions: Temperature 22° C Humidity: 50% Atmospheric pressure: 103kPa

10.4 Test Procedure

The E.U.T. was setup according to ANSI C63.10:2009 and tested according to ANSI 63.10:2009 for compliance to FCC 47 CFR 15.247 requirements. The E.U.T. is placed on a turn table which is 0.8 m above ground. The turn table is rotated 360 degrees to determine to the position of the maximum emission level. The E.U.T. was positioned such That the distance from antenna to the E.U.T. was 3 metres. The antenna is scanned from 1 metre to 4 metres to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2009 on radiated measurement.

Spectrum analyzer parameters setting as shown below:

- 1): Peak: RBW=1MHz, VBW=1MHz, Sweep=Auto
- 2): Average: RBW=1MHz, VBW=10Hz, Sweep=Auto

10.5 Test Result

| IEEE 802.11t | IEEE 802.11b mode, Low channel | | | | | | | | |
|-----------------|--------------------------------|-----------------------------|--------------------|-----------------------|---------------------------------|-------------------------------|---------------------|--|--|
| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity | | |
| 2310 | 48.82 | 27.34 | 2.32 | 32.14 | 46.34 | 54.00 | Horizontal | | |
| 2387.23 | 50.26 | 28.29 | 2.45 | 32.33 | 48.67 | 54.00 | Horizontal | | |
| 2390 | 53.67 | 28.29 | 2.45 | 32.33 | 52.08 | 54.00 | Horizontal | | |
| 2310 | 42.39 | 27.34 | 2.32 | 32.14 | 39.91 | 54.00 | Vertical | | |
| 2387.23 | 46.91 | 28.29 | 2.45 | 32.33 | 45.32 | 54.00 | Vertical | | |
| 2390 | 47.84 | 28.29 | 2.45 | 32.33 | 46.25 | 54.00 | Vertical | | |
| IEEE 802.11b | mode, High cl | nannel | | | | | | | |
| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity | | |
| 2483.5 | 53.67 | 28.29 | 2.67 | 32.33 | 52.30 | 54.00 | Horizontal | | |
| 2491.95 | 50.49 | 28.29 | 2.67 | 32.33 | 49.12 | 54.00 | Horizontal | | |
| 2500 | 46.71 | 28.29 | 2.67 | 32.33 | 45.34 | 54.00 | Horizontal | | |
| 2483.5 | 52.26 | 28.29 | 2.67 | 32.33 | 50.89 | 54.00 | Vertical | | |
| 2491.95 | 49.85 | 28.29 | 2.67 | 32.33 | 48.48 | 54.00 | Vertical | | |
| 2500 | 42.13 | 28.29 | 2.67 | 32.33 | 40.76 | 54.00 | Vertical | | |

| IEEE 802.11g | IEEE 802.11g mode, Low channel | | | | | | | | |
|-----------------|--------------------------------|-----------------------------|--------------------|-----------------------|---------------------------------|-------------------------------|---------------------|--|--|
| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity | | |
| 2310 | 48.59 | 27.34 | 2.32 | 32.14 | 46.11 | 54.00 | Horizontal | | |
| 2387.23 | 50.11 | 28.29 | 2.45 | 32.33 | 48.52 | 54.00 | Horizontal | | |
| 2390 | 53.23 | 28.29 | 2.45 | 32.33 | 51.64 | 54.00 | Horizontal | | |
| 2310 | 42.81 | 27.34 | 2.32 | 32.14 | 40.33 | 54.00 | Vertical | | |
| 2387.23 | 46.45 | 28.29 | 2.45 | 32.33 | 44.86 | 54.00 | Vertical | | |
| 2390 | 47.37 | 28.29 | 2.45 | 32.33 | 45.78 | 54.00 | Vertical | | |
| IEEE 802.11g | g mode, High cl | nannel | | | | | | | |
| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity | | |
| 2483.5 | 53.84 | 28.29 | 2.67 | 32.33 | 52.47 | 54.00 | Horizontal | | |
| 2491.95 | 50.51 | 28.29 | 2.67 | 32.33 | 49.14 | 54.00 | Horizontal | | |
| 2500 | 46.29 | 28.29 | 2.67 | 32.33 | 44.92 | 54.00 | Horizontal | | |
| 2483.5 | 52.41 | 28.29 | 2.67 | 32.33 | 51.04 | 54.00 | Vertical | | |
| 2491.95 | 49.33 | 28.29 | 2.67 | 32.33 | 47.96 | 54.00 | Vertical | | |
| 2500 | 42.27 | 28.29 | 2.67 | 32.33 | 40.90 | 54.00 | Vertical | | |

| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity |
|-----------------|------------------------------|-----------------------------|--------------------|-----------------------|---------------------------------|-------------------------------|---------------------|
| 2310 | 48.76 | 27.34 | 2.32 | 32.14 | 46.28 | 54.00 | Horizontal |
| 2387.23 | 50.36 | 28.29 | 2.45 | 32.33 | 48.77 | 54.00 | Horizontal |
| 2390 | 53.34 | 28.29 | 2.45 | 32.33 | 51.75 | 54.00 | Horizontal |
| 2310 | 42.49 | 27.34 | 2.32 | 32.14 | 40.01 | 54.00 | Vertical |
| 2387.23 | 46.61 | 28.29 | 2.45 | 32.33 | 45.02 | 54.00 | Vertical |
| 2390 | 47.65 | 28.29 | 2.45 | 32.33 | 46.06 | 54.00 | Vertical |
| IEEE 802.111 | n (HT20) mode, | High channel | | | | | |
| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity |
| 2483.5 | 53.49 | 28.29 | 2.67 | 32.33 | 52.12 | 54.00 | Horizontal |
| 2491.95 | 50.30 | 28.29 | 2.67 | 32.33 | 48.93 | 54.00 | Horizontal |
| 2500 | 46.52 | 28.29 | 2.67 | 32.33 | 45.15 | 54.00 | Horizontal |
| 2483.5 | 52.44 | 28.29 | 2.67 | 32.33 | 51.07 | 54.00 | Vertical |
| 2491.95 | 49.74 | 28.29 | 2.67 | 32.33 | 48.37 | 54.00 | Vertical |
| 2500 | 42.89 | 28.29 | 2.67 | 32.33 | 41.52 | 54.00 | Vertical |

| IEEE 802.11r | IEEE 802.11n (HT40) mode, Low channel | | | | | | | | |
|-----------------|---------------------------------------|-----------------------------|--------------------|-----------------------|---------------------------------|-------------------------------|---------------------|--|--|
| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity | | |
| 2310 | 48.13 | 27.34 | 2.32 | 32.14 | 45.65 | 54.00 | Horizontal | | |
| 2387.23 | 50.29 | 28.29 | 2.45 | 32.33 | 48.70 | 54.00 | Horizontal | | |
| 2390 | 53.65 | 28.29 | 2.45 | 32.33 | 52.06 | 54.00 | Horizontal | | |
| 2310 | 42.27 | 27.34 | 2.32 | 32.14 | 39.79 | 54.00 | Vertical | | |
| 2387.23 | 46.95 | 28.29 | 2.45 | 32.33 | 45.36 | 54.00 | Vertical | | |
| 2390 | 47.40 | 28.29 | 2.45 | 32.33 | 45.81 | 54.00 | Vertical | | |
| IEEE 802.11r | (HT40) mode, | , High channel | | | | | | | |
| Frequency (MHz) | Peak Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Peak Final Level (dBuV/m) | Average Limits (dBuV/m) | Antenna Polarity | | |
| 2483.5 | 53.62 | 28.29 | 2.67 | 32.33 | 52.25 | 54.00 | Horizontal | | |
| 2491.95 | 50.65 | 28.29 | 2.67 | 32.33 | 49.28 | 54.00 | Horizontal | | |
| 2500 | 46.94 | 28.29 | 2.67 | 32.33 | 45.57 | 54.00 | Horizontal | | |
| 2483.5 | 52.31 | 28.29 | 2.67 | 32.33 | 50.94 | 54.00 | Vertical | | |
| 2491.95 | 49.80 | 28.29 | 2.67 | 32.33 | 48.43 | 54.00 | Vertical | | |
| 2500 | 42.75 | 28.29 | 2.67 | 32.33 | 41.38 | 54.00 | Vertical | | |

Remark:

- 1) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- 2) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 3) The emission levels of other frequencies are very lower than the limit and not shown in the report.

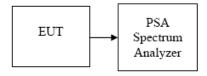
11.0 Spurious Emission Test

11.1 Conducted emissions Measurement

11.1.1 Test Equipment

| Instrument Type | Model | Serial No. | Manufacturer | Date of Cal. | Due Date |
|-------------------|-------|------------|---------------|---------------|---------------|
| Spectrum Analyzer | FSEM | 848597/001 | ROHDE&SCHWARZ | Nov. 09, 2014 | Nov. 08, 2015 |

11.1.2 Test configuration



11.1.3 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 15.205(c)).

11.1.4 Test procedure

Conducted RF measurements of the transmitter output were made to confirm that the E.U.T. antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site. The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz. Measurements are made over the 30MHz to 25 GHz range with the transmitter set to the lowest, middle, and highest channels.

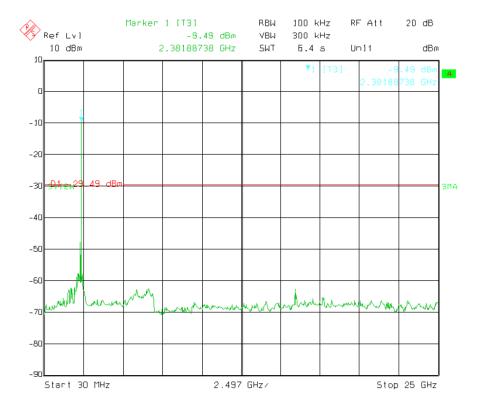
11.1.5 Test Result

Test plots please refer to next pages.

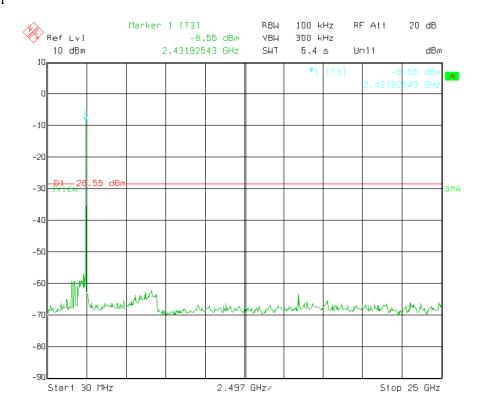
Note: Conducted emissions measurements below 30 MHz were made, and the maximum peak was detected, which is much less the limit. So it is not submitted in the report.

IEEE 802.11b mode

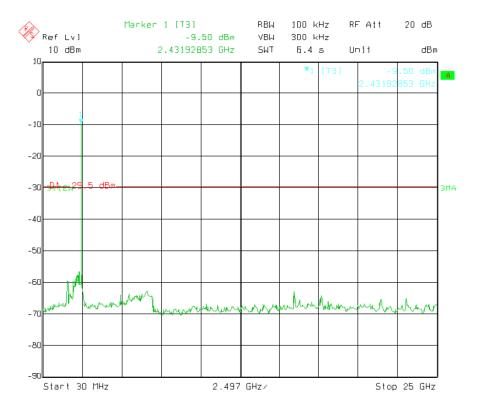
Low channel



Middle channel

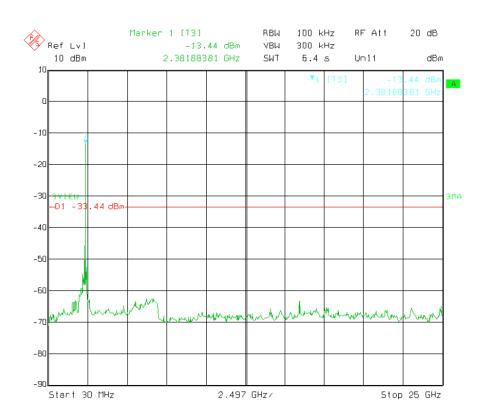


High channel

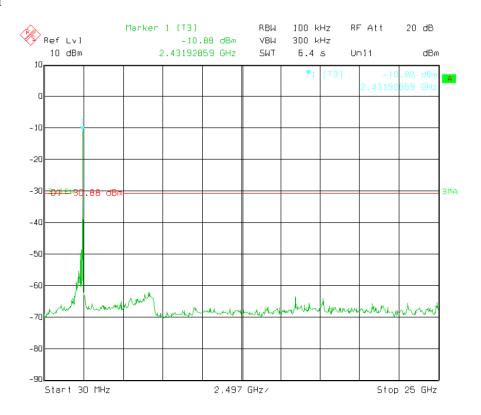


IEEE 802.11g mode

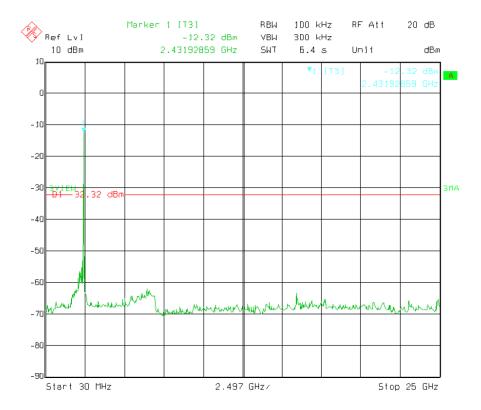
Low channel



Middle channel

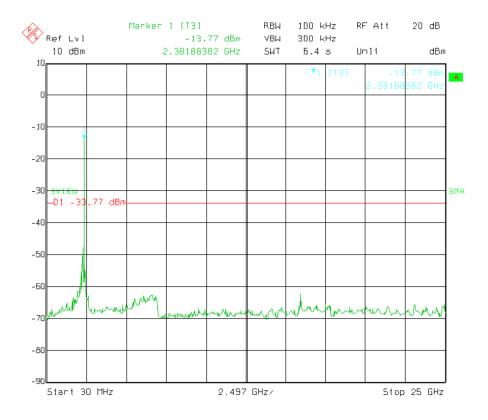


High channel

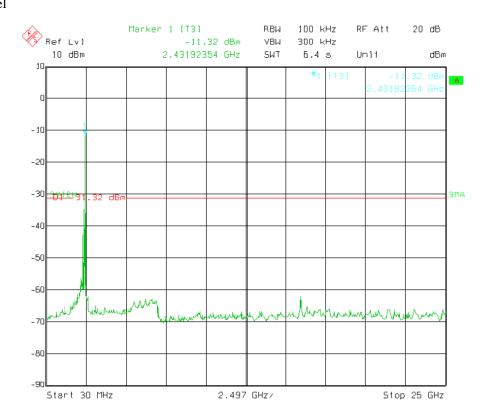


IEEE 802.11n (HT20) mode

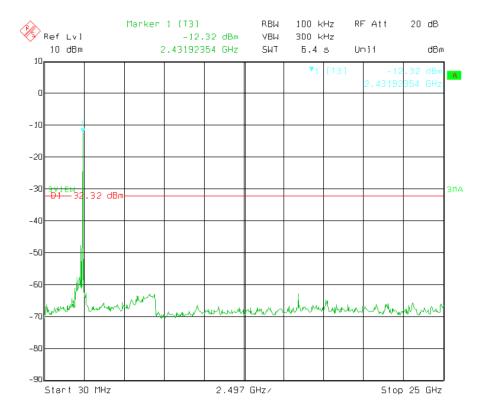
Low channel



Middle channel

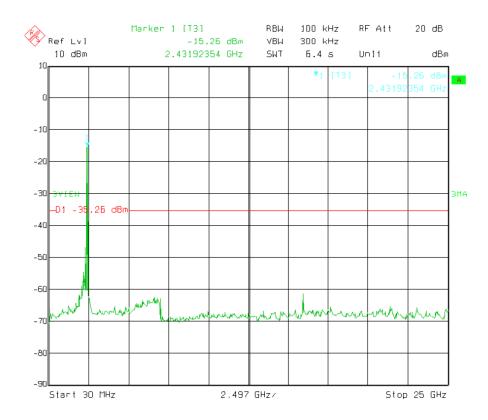


High channel

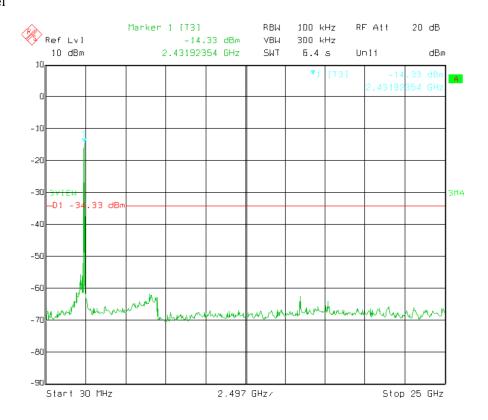


IEEE 802.11n (HT40) mode

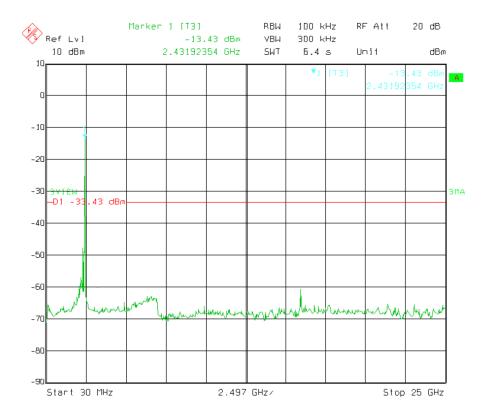
Low channel



Middle channel



High channel



11.2 Radiated emissions Measurement

11.2.1 Test Equipment

| Instrument Type | Model | Serial No. | Manufacturer | Date of Cal. | Due Date |
|------------------------|------------|-------------|---------------|---------------|---------------|
| ESPI Test Receiver | ESPI 3 | 100379 | ROHDE&SCHWARZ | Nov. 09, 2014 | Nov. 08, 2015 |
| Spectrum Analyzer | FSEM | 848597/001 | ROHDE&SCHWARZ | Nov. 09, 2014 | Nov. 08, 2015 |
| Pre-amplifier | LNA6900 | | Teseq | Aug. 20, 2014 | Aug. 19, 2015 |
| Pre-amplifier | 8447D | 83153007374 | Agilent | Aug. 20, 2014 | Aug. 19, 2015 |
| Pre-amplifier | 8449B | 3008A01738 | Agilent | Aug. 20, 2014 | Aug. 19, 2015 |
| Loop antenna | PLA-1030/B | 1029 | A.R.A. | Aug. 20, 2014 | Aug. 19, 2015 |
| Ultra Broadband ANT | HL562 | 100157 | ROHDE&SCHWARZ | Aug. 20, 2014 | Aug. 19, 2015 |
| Horn Antenna | 3117 | | ETS LINDGREN | Aug. 20, 2014 | Aug. 19, 2015 |
| Horn Antenna | 3160 | | ETS LINDGREN | Aug. 20, 2014 | Aug. 19, 2015 |

11.2.2 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209.

| Frequency Range (MHz) | Distance (m) | Field strength (dB µ V/m) |
|-----------------------|--------------|---------------------------|
| 0.009-0.490 | 3 | 20log 2400/F (kHz) + 80 |
| 0.490-1.705 | 3 | 20log 24000/F (kHz) + 40 |
| 1.705-30 | 3 | 20log 30 + 40 |
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

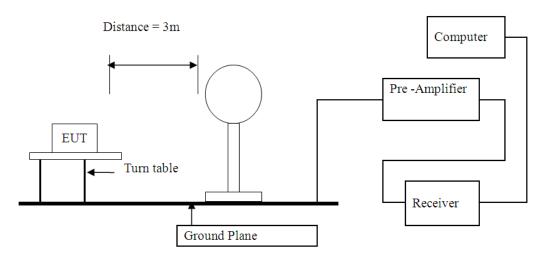
Note: 1) RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$

- 2) In the Above Table, the tighter limit applies at the band edges.
- 3) Distance refers to the distance in meters between the measuring instrument antenna and the E.U.T.
- 4) This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5) All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.
- 6) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)

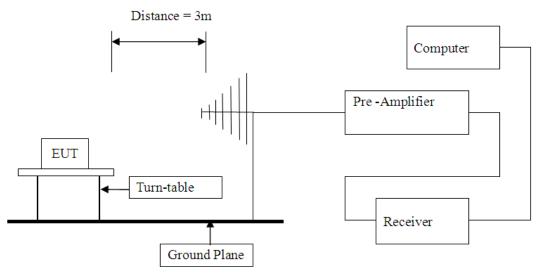
11.2.3 E.U.T. Operating Condition

Operating condition is according to ANSI C63.10 -2009

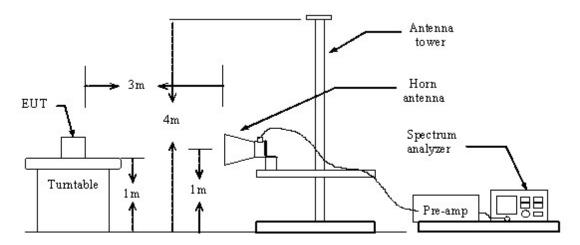
11.2.4 Block diagram of Test setup Below 30 MHz



30 MHz to 1000 MHz



Above 1000 MHz



11.2.5 Test Method and test Procedure

- 1) The E.U.T. was tested according to ANSI C63.10 –2009.
- 2) The E.U.T., peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2009.
- 3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- 4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- 5) The antenna polarization: Vertical polarization and Horizontal polarization.

11.2.6 Test specification

Environmental conditions: Temperature 22° C Humidity: 51% Atmospheric pressure: 103kPa

11.2.7 Test result

Radiated Emission (9 kHz-30 MHz)

Result: Pass

| Frequency (MHz) | Level@3m (dB \u03bc V/m) | Limit@3m (dB μ V/m) | |
|-----------------|--------------------------|-------------------------|--|
| | | | |
| | | | |
| | | | |
| | | | |

Note: 1) Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor

2) The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

H Building, Hongfa science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China Tel: +86-755-2911 3252 Fax: +86-755-2911 3135 http://www.poce-cert.com

Radiated Emission (30MHz-1000MHz)

| Frequency | Read Level | Antenna Factor | Cable Loss | Preamp | Final Level | Limit | Antenna |
|-----------|------------|----------------|------------|--------|-------------|----------|------------|
| (MHz) | (dBuV) | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | Polarity |
| 44.6287 | 35.69 | 13.22 | 0.35 | 26.68 | 22.58 | 40.00 | Horizontal |
| 66.1684 | 31.47 | 14.52 | 0.46 | 26.84 | 19.61 | 40.00 | Horizontal |
| 96.2846 | 29.78 | 14.86 | 0.51 | 26.72 | 18.43 | 43.50 | Horizontal |
| 108.1395 | 31.47 | 15.24 | 0.58 | 26.81 | 20.48 | 43.50 | Horizontal |
| 255.3472 | 29.58 | 16.82 | 0.84 | 26.91 | 20.33 | 46.00 | Horizontal |
| 879.6284 | 39.68 | 19.67 | 1.76 | 26.75 | 34.36 | 46.00 | Horizontal |
| 36.2257 | 35.67 | 13.52 | 0.33 | 26.54 | 22.98 | 40.00 | Vertical |
| 42.9628 | 30.27 | 13.94 | 0.42 | 26.82 | 17.81 | 40.00 | Vertical |
| 105.6178 | 29.43 | 14.86 | 0.59 | 26.91 | 17.97 | 43.50 | Vertical |
| 240.1364 | 27.15 | 16.64 | 0.78 | 26.34 | 18.23 | 46.00 | Vertical |
| 256.2347 | 26.82 | 16.88 | 0.82 | 26.91 | 17.61 | 46.00 | Vertical |
| 879.6382 | 39.64 | 19.67 | 1.76 | 26.75 | 34.32 | 46.00 | Vertical |

Remark:

- 1) Final Level= Read Level+Antenna Factor+Cable Loss-Preamp
- 2) The measurements were conducted in all WiFi modes(b/g/n) in all three channels (Low/Middle/High) and the worst case (b mode in Low channel) was reported only.

Harmonics Radiated Emission Data (1000MHz-25000MHz)

| | b mode, Low | ` | UMHz-25000M | 111Z) | | | |
|-------------|--------------|------------|-------------|-------------|------------|----------|------------|
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| (=-==) | (dBuV) | (dB/m) | () | () | (dBuV/m) | (dBuV/m) | |
| 4824 | 49.82 | 30.56 | 5.60 | 33.53 | 52.45 | 54.00 | Horizontal |
| 7236 | 39.66 | 35.41 | 7.24 | 33.82 | 48.49 | 54.00 | Horizontal |
| 9648 | | | | | | 54.00 | Horizontal |
| 12060 | | | | | | 54.00 | Horizontal |
| 14472 | | | | | | 54.00 | Horizontal |
| 16884 | | | | | | 54.00 | Horizontal |
| 19296 | | | | | | 54.00 | Horizontal |
| 21708 | | | | | | 54.00 | Horizontal |
| 24120 | | | | | | 54.00 | Horizontal |
| 4824 | 46.49 | 30.56 | 5.60 | 33.53 | 49.12 | 54.00 | Vertical |
| 7236 | 36.18 | 35.41 | 7.24 | 33.82 | 45.01 | 54.00 | Vertical |
| 9648 | | | | | | 54.00 | Vertical |
| 12060 | | | | | | 54.00 | Vertical |
| 14472 | | | | | | 54.00 | Vertical |
| 16884 | | | | | | 54.00 | Vertical |
| 19296 | | | | | | 54.00 | Vertical |
| 21708 | | | | | | 54.00 | Vertical |
| 24120 | | | | | | 54.00 | Vertical |
| IEEE 802.11 | b mode, Midd | le channel | | | | | |
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4874 | 50.34 | 30.56 | 5.60 | 33.53 | 52.97 | 54.00 | Horizontal |
| 7311 | 38.29 | 35.41 | 7.24 | 33.82 | 47.12 | 54.00 | Horizontal |
| 9748 | | | | | | 54.00 | Horizontal |
| 12185 | | | | | | 54.00 | Horizontal |
| 14622 | | | | | | 54.00 | Horizontal |
| 17059 | | | | | | 54.00 | Horizontal |
| 19496 | | | | | | 54.00 | Horizontal |
| 21933 | | | | | | 54.00 | Horizontal |
| 24370 | | | | | | 54.00 | Horizontal |
| 4874 | 48.11 | 30.56 | 5.60 | 33.53 | 50.74 | 54.00 | Vertical |
| 7311 | 36.62 | 35.41 | 7.24 | 33.82 | 45.45 | 54.00 | Vertical |
| 9748 | | | | | | 54.00 | Vertical |
| 12185 | | | | | | 54.00 | Vertical |
| 14622 | | | | | | 54.00 | Vertical |
| 17059 | | | | | | 54.00 | Vertical |
| 19496 | | | | | | 54.00 | Vertical |
| 21933 | | | | | | 54.00 | Vertical |
| 24370 | | | | | | 54.00 | Vertical |

| Frequency | b mode, High Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
|-------------|---------------------------|---------|------------|-------------|------------|--------------|-----------|
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| , | (dBuV) | (dB/m) | , , | , | (dBuV/m) | (dBuV/m) | |
| 4924 | 49.16 | 30.56 | 5.60 | 33.53 | 51.79 | 54.00 | Horizonta |
| 7386 | 38.34 | 35.41 | 7.24 | 33.82 | 47.17 | 54.00 | Horizonta |
| 9848 | | | | | | 54.00 | Horizonta |
| 12310 | | | | | | 54.00 | Horizonta |
| 14772 | | | | | | 54.00 | Horizonta |
| 17234 | | | | | | 54.00 | Horizonta |
| 19696 | | | | | | 54.00 | Horizonta |
| 22158 | | | | | | 54.00 | Horizonta |
| 24620 | | | | | | 54.00 | Horizonta |
| 4924 | 47.29 | 30.56 | 5.60 | 33.53 | 49.92 | 54.00 | Vertical |
| 7386 | 35.64 | 35.41 | 7.24 | 33.82 | 44.47 | 54.00 | Vertical |
| 9848 | | | | | | 54.00 | Vertical |
| 12310 | | | | | | 54.00 | Vertical |
| 14772 | | | | | | 54.00 | Vertical |
| 17234 | | | | | | 54.00 | Vertical |
| 19696 | | | | | | 54.00 | Vertical |
| 22158 | | | | | | 54.00 | Vertical |
| 24620 | | | | | | 54.00 | Vertical |
| IEEE 802.11 | lg mode, Low | channel | | | | | |
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4824 | 48.05 | 30.56 | 5.60 | 33.53 | 50.68 | 54.00 | Horizonta |
| 7236 | 37.69 | 35.41 | 7.24 | 33.82 | 46.52 | 54.00 | Horizonta |
| 9648 | | | | | | 54.00 | Horizonta |
| 12060 | | | | | | 54.00 | Horizonta |
| 14472 | | | | | | 54.00 | Horizonta |
| 16884 | | | | | | 54.00 | Horizonta |
| 19296 | | | | | | 54.00 | Horizonta |
| 21708 | | | | | | 54.00 | Horizonta |
| 24120 | | | | | | 54.00 | Horizonta |
| 4824 | 44.43 | 30.56 | 5.60 | 33.53 | 47.06 | 54.00 | Vertical |
| 7236 | 35.81 | 35.41 | 7.24 | 33.82 | 44.64 | 54.00 | Vertical |
| 9648 | | | | | | 54.00 | Vertical |
| 12060 | | | | | | 54.00 | Vertical |
| 14472 | | | | | | 54.00 | Vertical |
| 1,000.4 | | | | | | 54.00 | Vertical |
| 16884 | | | | | | 54.00 | X7t.' 1 |
| 19296 | | | | | | 54.00 | Vertical |
| | | | | | | 54.00 | Vertical |

| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
|-------------|--------------|---------|------------|-------------|---------------------------------------|----------|------------|
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | , , | (dBuV/m) | (dBuV/m) | |
| 4874 | 50.23 | 30.56 | 5.60 | 33.53 | 52.86 | 54.00 | Horizontal |
| 7311 | 37.64 | 35.41 | 7.24 | 33.82 | 46.47 | 54.00 | Horizontal |
| 9748 | | | | | | 54.00 | Horizontal |
| 12185 | | | | | | 54.00 | Horizontal |
| 14622 | | | | | | 54.00 | Horizontal |
| 17059 | | | | | | 54.00 | Horizontal |
| 19496 | | | | | | 54.00 | Horizontal |
| 21933 | | | | | | 54.00 | Horizontal |
| 24370 | | | | | | 54.00 | Horizontal |
| 4874 | 45.94 | 30.56 | 5.60 | 33.53 | 48.57 | 54.00 | Vertical |
| 7311 | 36.27 | 35.41 | 7.24 | 33.82 | 45.10 | 54.00 | Vertical |
| 9748 | | | | | | 54.00 | Vertical |
| 12185 | | | | | | 54.00 | Vertical |
| 14622 | | | | | | 54.00 | Vertical |
| 17059 | | | | | | 54.00 | Vertical |
| 19496 | | | | | | 54.00 | Vertical |
| 21933 | | | | | | 54.00 | Vertical |
| 24370 | | | | | | 54.00 | Vertical |
| IEEE 802.11 | g mode, High | channel | | | | | |
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4924 | 49.79 | 30.56 | 5.60 | 33.53 | 52.42 | 54.00 | Horizontal |
| 7386 | 37.36 | 35.41 | 7.24 | 33.82 | 46.19 | 54.00 | Horizontal |
| 9848 | | | | | | 54.00 | Horizontal |
| 12310 | | | | | | 54.00 | Horizontal |
| 14772 | | | | | | 54.00 | Horizontal |
| 17234 | | | | | | 54.00 | Horizontal |
| 19696 | | | | | | 54.00 | Horizontal |
| 22158 | | | | | | 54.00 | Horizontal |
| 24620 | | | | | | 54.00 | Horizontal |
| 4924 | 45.82 | 30.56 | 5.60 | 33.53 | 48.45 | 54.00 | Vertical |
| 7386 | 36.19 | 35.41 | 7.24 | 33.82 | 45.02 | 54.00 | Vertical |
| 9848 | | | | | | 54.00 | Vertical |
| 12310 | | | | | | 54.00 | Vertical |
| 14772 | | | | | | 54.00 | Vertical |
| 17234 | | | | | | 54.00 | Vertical |
| 19696 | | | | | | 54.00 | Vertical |
| 22158 | | | | | | 54.00 | Vertical |
| | | | i | 1 | · · · · · · · · · · · · · · · · · · · | 54.00 | Vertical |

| IEEE 802.11 | n (HT20) mod | de, Low channe | el | | | | |
|-------------|--------------|----------------|------------|-------------|------------|----------|------------|
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4824 | 48.25 | 30.56 | 5.60 | 33.53 | 50.88 | 54.00 | Horizontal |
| 7236 | 37.13 | 35.41 | 7.24 | 33.82 | 45.96 | 54.00 | Horizontal |
| 9648 | | | | | | 54.00 | Horizontal |
| 12060 | | | | | | 54.00 | Horizontal |
| 14472 | | | | | | 54.00 | Horizontal |
| 16884 | | | | | | 54.00 | Horizontal |
| 19296 | | | | | | 54.00 | Horizontal |
| 21708 | | | | | | 54.00 | Horizontal |
| 24120 | | | | | | 54.00 | Horizontal |
| 4824 | 46.29 | 30.56 | 5.60 | 33.53 | 48.92 | 54.00 | Vertical |
| 7236 | 35.65 | 35.41 | 7.24 | 33.82 | 44.48 | 54.00 | Vertical |
| 9648 | | | | | | 54.00 | Vertical |
| 12060 | | | | | | 54.00 | Vertical |
| 14472 | | | | | | 54.00 | Vertical |
| 16884 | | | | | | 54.00 | Vertical |
| 19296 | | | | | | 54.00 | Vertical |
| 21708 | | | | | | 54.00 | Vertical |
| 24120 | | | | | | 54.00 | Vertical |
| IEEE 802.11 | n (HT20) mod | le, Middle cha | nnel | | | | |
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4874 | 48.06 | 30.56 | 5.60 | 33.53 | 50.69 | 54.00 | Horizontal |
| 7311 | 36.31 | 35.41 | 7.24 | 33.82 | 45.14 | 54.00 | Horizontal |
| 9748 | | | | | | 54.00 | Horizontal |
| 12185 | | | | | | 54.00 | Horizontal |
| 14622 | | | | | | 54.00 | Horizontal |
| 17059 | | | | | | 54.00 | Horizontal |
| 19496 | | | | | | 54.00 | Horizontal |
| 21933 | | | | | | 54.00 | Horizontal |
| 24370 | | | | | | 54.00 | Horizontal |
| 4874 | 44.87 | 30.56 | 5.60 | 33.53 | 47.50 | 54.00 | Vertical |
| 7311 | 35.49 | 35.41 | 7.24 | 33.82 | 44.32 | 54.00 | Vertical |
| 9748 | | | | | | 54.00 | Vertical |
| 12185 | | | | | | 54.00 | Vertical |
| 14622 | | | | | - | 54.00 | Vertical |
| 17059 | | | | | | 54.00 | Vertical |
| 19496 | | | | | | 54.00 | Vertical |
| 21933 | | | | | | 54.00 | Vertical |
| | | | | | | | |

| IEEE 802.11 | n (HT20) mod | le, High chann | el | | | | |
|-------------|--------------|----------------|------------|-------------|------------|----------|------------|
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4924 | 50.85 | 30.56 | 5.60 | 33.53 | 53.48 | 54.00 | Horizontal |
| 7386 | 38.19 | 35.41 | 7.24 | 33.82 | 47.02 | 54.00 | Horizontal |
| 9848 | | | | | | 54.00 | Horizontal |
| 12310 | | | | | | 54.00 | Horizontal |
| 14772 | | | | | | 54.00 | Horizontal |
| 17234 | | | | | | 54.00 | Horizontal |
| 19696 | | | | | | 54.00 | Horizontal |
| 22158 | | | | | - | 54.00 | Horizontal |
| 24620 | | | | | | 54.00 | Horizontal |
| 4924 | 46.39 | 30.56 | 5.60 | 33.53 | 49.02 | 54.00 | Vertical |
| 7386 | 35.24 | 35.41 | 7.24 | 33.82 | 44.07 | 54.00 | Vertical |
| 9848 | | | | | | 54.00 | Vertical |
| 12310 | | | | | | 54.00 | Vertical |
| 14772 | | | | | - | 54.00 | Vertical |
| 17234 | | | | | - | 54.00 | Vertical |
| 19696 | | | | | | 54.00 | Vertical |
| 22158 | | | | | | 54.00 | Vertical |
| 24620 | | | | | | 54.00 | Vertical |
| IEEE 802.11 | n (HT40) mod | le, Low channe | el | | | | |
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4844 | 49.95 | 30.56 | 5.60 | 33.53 | 52.58 | 54.00 | Horizontal |
| 7266 | 37.48 | 35.41 | 7.24 | 33.82 | 46.31 | 54.00 | Horizontal |
| 9688 | | | | | | 54.00 | Horizontal |
| 12110 | | | | | | 54.00 | Horizontal |
| 14532 | | | | | | 54.00 | Horizontal |
| 16954 | | | | | | 54.00 | Horizontal |
| 17176 | | | | | | 54.00 | Horizontal |
| 21798 | | | | | | 54.00 | Horizontal |
| 24220 | | | | | | 54.00 | Horizontal |
| 4844 | 45.71 | 30.56 | 5.60 | 33.53 | 48.34 | 54.00 | Vertical |
| 7266 | 35.35 | 35.41 | 7.24 | 33.82 | 44.18 | 54.00 | Vertical |
| 9688 | | | | | | 54.00 | Vertical |
| 12110 | | | | | | 54.00 | Vertical |
| 14532 | | | | | | 54.00 | Vertical |
| 16954 | | | | | | 54.00 | Vertical |
| 17176 | | | | | | 54.00 | Vertical |
| 21798 | | | | | | 54.00 | Vertical |
| 24220 | | | | | | 54.00 | Vertical |

| IEEE 802.11 | n (HT40) mod | le , Middle cha | | | | | |
|---|----------------|-----------------|--------------|----------------|--------------------------------|---|--|
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4874 | 49.39 | 30.56 | 5.60 | 33.53 | 52.02 | 54.00 | Horizontal |
| 7311 | 36.74 | 35.41 | 7.24 | 33.82 | 45.57 | 54.00 | Horizontal |
| 9748 | | | | | | 54.00 | Horizontal |
| 12185 | | | | | | 54.00 | Horizontal |
| 14622 | | | | | | 54.00 | Horizontal |
| 17059 | | | | | | 54.00 | Horizontal |
| 19496 | | | | | | 54.00 | Horizontal |
| 21933 | | | | | | 54.00 | Horizontal |
| 24370 | | | | | | 54.00 | Horizontal |
| 4874 | 46.64 | 30.56 | 5.60 | 33.53 | 49.27 | 54.00 | Vertical |
| 7311 | 35.20 | 35.41 | 7.24 | 33.82 | 44.03 | 54.00 | Vertical |
| 9748 | | | | | | 54.00 | Vertical |
| 12185 | | | | | | 54.00 | Vertical |
| 14622 | | | | | | 54.00 | Vertical |
| 17059 | | | | | | 54.00 | Vertical |
| 19496 | | | | | | 54.00 | Vertical |
| 21933 | | | | | | 54.00 | Vertical |
| 24370 | | | | | | 54.00 | Vertical |
| IEEE 802.11 | n (HT40) mod | le , High chan | nel | | | | • |
| Frequency | Peak Read | Antenna | Cable Loss | Preamp | Peak Final | Average | Antenna |
| (MHz) | Level | Factor | (dB) | Factor (dB) | Level | Limits | Polarity |
| | (dBuV) | (dB/m) | | | (dBuV/m) | (dBuV/m) | |
| 4904 | 51.24 | 30.56 | 5.60 | 33.53 | 53.87 | 54.00 | Horizontal |
| 7356 | 39.67 | 35.41 | 7.24 | 33.82 | 48.50 | 54.00 | Horizontal |
| 9808 | | | | | | 54.00 | Horizontal |
| 12260 | | | | | | 54.00 | Horizontal |
| 14712 | | | | | | 54.00 | Horizontal |
| 17164 | | | | | | | |
| | | | | | - | 54.00 | Horizontal |
| 19616 | | | | | 1 1 | 54.00 54.00 | Horizontal Horizontal |
| 19616 22068 | | | | | | | • |
| | | | | | | 54.00 | Horizontal |
| 22068 | 45.61 | 30.56 | 5.60 | 33.53 | | 54.00 54.00 | Horizontal Horizontal |
| 22068 24520 | 45.61 36.37 | 30.56 35.41 | 5.60 7.24 | 33.53 33.82 | | 54.00 54.00 54.00 | Horizontal Horizontal Horizontal |
| 22068 24520 4904 | | | | | 48.24 | 54.00 54.00 54.00 54.00 | Horizontal Horizontal Horizontal Vertical |
| 22068 24520 4904 7356 | | | | | 48.24 45.20 | 54.00 54.00 54.00 54.00 54.00 | Horizontal Horizontal Horizontal Vertical Vertical |
| 22068 24520 4904 7356 9808 | | | | | 48.24 45.20 | 54.00 54.00 54.00 54.00 54.00 54.00 | Horizontal Horizontal Vertical Vertical Vertical |
| 22068 24520 4904 7356 9808 12260 | | | | | 48.24 45.20 | 54.00 54.00 54.00 54.00 54.00 54.00 54.00 | Horizontal Horizontal Vertical Vertical Vertical Vertical |
| 22068 24520 4904 7356 9808 12260 14712 | | | | | 48.24 45.20 | 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 | Horizontal Horizontal Vertical Vertical Vertical Vertical Vertical Vertical |
| 22068 24520 4904 7356 9808 12260 14712 17164 | | | | | 48.24 45.20 | 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 | Horizontal Horizontal Vertical Vertical Vertical Vertical Vertical Vertical Vertical |

Remark:

- 1) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- 2) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 3) "--" means this data is too weak to be able to test.
- 4) The emission levels of other frequencies are very lower than the limit and not shown in the report.