

FCC RF Test Report

APPLICANT : Motorola Solutions, Inc.
EQUIPMENT : Enterprise Digital Assistant (EDA)
BRAND NAME : Motorola
MODEL NAME : MC67NA
FCC ID : UZ7MC67NA
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Mar. 03, 2012 and completely tested on Jun. 28, 2012. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the 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:



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FCC ID : UZ7MC67NA

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[illegible]

SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|----------------|--------------------|-----------|-----------------------------|--------------------------------|--------|---|
| 3.1 | 15.247(a)(2) | A8.2(a) | 6dB Bandwidth | $\geq 0.5\text{MHz}$ | Pass | - |
| 3.1 | - | Gen 4.6.1 | 99% Bandwidth | - | Pass | - |
| 3.2 | 15.247(b) | A8.4 | Power Output Measurement | $\leq 30\text{dBm}$ | Pass | - |
| 3.3 | 15.247(e) | A8.2(b) | Power Spectral Density | $\leq 8\text{dBm}/3\text{kHz}$ | Pass | - |
| 3.4 | 15.247(d) | A8.5 | Conducted Band Edges | $\leq 20\text{dBc}$ | Pass | - |
| | | | Conducted Spurious Emission | | Pass | - |
| 3.5 | 15.247(d) | A8.5 | Radiated Band Edges | 15.209(a) & 15.247(d) | Pass | Under limit 1.10 dB at 2483.500 MHz |
| | | | Radiated Spurious Emission | | Pass | |
| 3.6 | 15.207 | Gen 7.2.4 | AC Conducted Emission | 15.207(a) | Pass | Under limit 10.70 dB at 0.190 MHz |
| 3.7 | 15.203 & 15.247(b) | A8.4 | Antenna Requirement | N/A | Pass | - |

1 General Description

1.1 Applicant

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.2 Manufacturer

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.3 Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|---|
| Equipment | Enterprise Digital Assistant (EDA) |
| Brand Name | Motorola |
| Model Name | MC67NA |
| FCC ID | UZ7MC67NA |
| EUT supports Radios application | GSM/EGPRS/WCDMA/HSPA WLAN 11abgn(BW 20MHz)/Bluetooth 2.1 EDR |
| HW Version | DV2 |
| SW Version | 01.21.0010 (RF Fusion Version : X_2.00.0.0.041E) |
| FW Version | 2.28 |
| EUT Stage | Identical Prototype |

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

| Product Specification subjective to this standard | |
|---|---|
| Tx/Rx Channel Frequency Range | 802.11b/g/n : 2412 MHz ~ 2462 MHz 802.11a/n: 5745 MHz ~5825 MHz |
| Maximum Output Power to Antenna | <2412 MHz ~ 2462 MHz> 802.11b : 18.26 dBm (0.0670 W) 802.11g : 22.11 dBm (0.1626 W) 802.11n (BW 20MHz) : 22.61 dBm (0.1824 W) <5745 MHz ~5825 MHz> 802.11a : 17.53 dBm (0.0566 W) 802.11n (BW 20MHz) : 17.81 dBm (0.0604 W) |
| 99% Occupied Bandwidth | <2412 MHz ~ 2462 MHz> 802.11b : 13.9996MHz 802.11g : 18.5562MHz 802.11n (BW 20MHz) : 20.5776MHz <5745 MHz ~5825 MHz> 802.11a : 19.7378MHz 802.11n (BW 20MHz) : 21.3192MHz |
| Antenna Type | 802.11b/g/n : Fixed Internal Antenna with gain 1.91 dBi 802.11a/n : Fixed Internal Antenna with gain 3.34 dBi |
| Type of Modulation | 802.11b : DSSS (BPSK / QPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) |

1.4 Testing Site

| | | | | |
|---------------------------|--|---------|-----------|--------------------------------|
| 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: +886-3-3273456 / FAX: +886-3-3284978 | | | |
| Test Site No. | Sporton Site No. | | | FCC/IC Registration No. |
| | TH02-HY | CO05-HY | 03CH07-HY | 722060/4086B-1 |

1.5 Applied 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 v01
- FCC TCB Workshop 2012, April
- ANSI C63.4-2003
- IC RSS-210 Issue 8
- IC RSS-Gen Issue 3

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.

1.6 Ancillary Equipment List

| 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. | GPS Station | T&E | GS-50 | N/A | N/A | Unshielded, 1.8 m |
| 3. | WLAN AP | D-Link | DIR-628 | KA2DIR628A2 | N/A | Unshielded, 1.8 m |
| 4. | Notebook | DELL | P20G | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 5. | Notebook | DELL | Vostro 1510 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 6. | LCD Monitor | Lenovo | 6135-AB1 | FCC DoC | Shielded, 1.6 m | Unshielded, 1.8 m |
| 7. | Bluetooth Earphone | Sony Ericsson | MW600 | PY70DA2029 | N/A | N/A |
| 8. | iPod | Apple | A1199 | FCC DoC | Shielded, 1.0 m | N/A |
| 9. | iPod | Apple | A1285 | FCC DoC | Shielded, 1.0 m | N/A |

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|----------------|---------|----------------|
| 2400-2483.5 MHz | 1 | 2412 | 8 | 2447 |
| | 2 | 2417 | 9 | 2452 |
| | 3 | 2422 | 10 | 2457 |
| | 4 | 2427 | 11 | 2462 |
| | 5 | 2432 | 12 | 2467 |
| | 6 | 2437 | 13 | 2472 |
| | 7 | 2442 | | |

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-------------------------|---------|----------------|---------|----------------|
| 5725-5850 MHz Band 4 | 149 | 5745 | 159 | 5795 |
| | 151 | 5755 | 165 | 5825 |
| | 157 | 5785 | | |

2.2 RF Peak Output Power

Preliminary tests were performed in different data rate and recorded the RF power output in the following table:

The conducted power tables of Sample A are as follows:

| Channel | Frequency | 2.4GHz 802.11b RF Power (dBm) | | | |
|---------|-----------|-------------------------------|--------|----------|---------|
| | | DSSS Data Rate | | | |
| | | 1 Mbps | 2 Mbps | 5.5 Mbps | 11 Mbps |
| CH 01 | 2412 MHz | 17.65 | 17.56 | 17.56 | 17.71 |
| CH 06 | 2437 MHz | 18.79 | 18.74 | 18.39 | 18.53 |
| CH 11 | 2462 MHz | 18.56 | 18.51 | 18.46 | 18.64 |
| CH 12 | 2467 MHz | 11.43 | 12.51 | 12.16 | 12.29 |
| CH 13 | 2472 MHz | 9.09 | 9.02 | 9.05 | 9.04 |

| Channel | Frequency | 2.4GHz 802.11g RF Power (dBm) | | | | | | | |
|---------|-----------|-------------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 01 | 2412 MHz | 20.63 | 20.71 | 21.17 | 21.00 | 21.09 | 20.99 | 21.16 | 21.00 |
| CH 06 | 2437 MHz | 22.04 | 22.12 | 22.24 | 22.23 | 22.42 | 22.56 | 22.51 | 22.64 |
| CH 11 | 2462 MHz | 20.03 | 20.20 | 20.42 | 20.59 | 20.35 | 20.65 | 20.60 | 20.32 |
| CH 12 | 2467 MHz | 14.18 | 14.26 | 14.27 | 14.20 | 14.28 | 14.35 | 14.42 | 14.28 |
| CH 13 | 2472 MHz | 6.52 | 6.63 | 6.33 | 6.49 | 6.62 | 6.73 | 6.72 | 6.86 |

| Channel | Frequency | 2.4GHz 802.11g/n (BW 20MHz) RF Power (dBm) | | | | | | | |
|---------|-----------|--|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 01 | 2412 MHz | 20.77 | 20.79 | 20.82 | 21.13 | 21.01 | 21.11 | 20.72 | 21.23 |
| CH 06 | 2437 MHz | 22.45 | 22.44 | 22.44 | 22.44 | 22.16 | 22.44 | 22.41 | 22.40 |
| CH 11 | 2462 MHz | 18.76 | 18.74 | 18.93 | 19.02 | 19.05 | 18.73 | 18.96 | 19.07 |
| CH 12 | 2467 MHz | 13.90 | 14.16 | 14.13 | 14.36 | 14.37 | 14.26 | 14.30 | 14.32 |
| CH 13 | 2472 MHz | 6.19 | 6.26 | 6.30 | 6.61 | 6.56 | 6.39 | 6.41 | 6.35 |

| Channel | Frequency | 5GHz 802.11a RF Power (dBm) | | | | | | | |
|---------|-----------|-----------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH149 | 5745 MHz | 17.57 | 17.26 | 17.38 | 17.13 | 17.31 | 17.22 | 17.49 | 17.47 |
| CH157 | 5785 MHz | 17.46 | 17.30 | 17.10 | 17.13 | 17.26 | 17.12 | 17.15 | 17.31 |
| CH165 | 5825 MHz | 17.48 | 17.27 | 17.35 | 17.35 | 17.25 | 17.23 | 17.41 | 17.30 |

| Channel | Frequency | 5GHz 802.11a/n (BW 20MHz) RF Power (dBm) | | | | | | | |
|---------|-----------|--|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH149 | 5745 MHz | 17.85 | 17.77 | 17.70 | 17.73 | 17.47 | 17.72 | 17.63 | 17.56 |
| CH157 | 5785 MHz | 17.99 | 17.70 | 17.55 | 17.58 | 17.49 | 17.51 | 17.55 | 17.60 |
| CH165 | 5825 MHz | 17.75 | 17.67 | 17.42 | 17.47 | 17.12 | 17.20 | 17.35 | 17.29 |

Remark: The EUT is programmed to transmit signals continuously for all testing.

The conducted power tables of Sample B are as follows:

| Channel | Frequency | 2.4GHz 802.11b RF Power (dBm) | | | |
|---------|-----------|-------------------------------|--------|----------|---------|
| | | DSSS Data Rate | | | |
| | | 1 Mbps | 2 Mbps | 5.5 Mbps | 11 Mbps |
| CH 01 | 2412 MHz | 17.42 | 17.38 | 17.35 | 17.30 |
| CH 06 | 2437 MHz | 18.13 | 17.92 | 17.85 | 17.84 |
| CH 11 | 2462 MHz | 18.26 | 18.02 | 17.86 | 17.91 |
| CH 12 | 2467 MHz | 11.52 | 11.41 | 11.22 | 11.18 |
| CH 13 | 2472 MHz | 8.71 | 8.64 | 8.34 | 8.29 |

| Channel | Frequency | 2.4GHz 802.11g RF Power (dBm) | | | | | | | |
|---------|-----------|-------------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 01 | 2412 MHz | 20.57 | 20.51 | 20.45 | 20.49 | 20.46 | 20.52 | 20.44 | 20.47 |
| CH 06 | 2437 MHz | 22.11 | 22.02 | 21.96 | 21.98 | 21.97 | 21.95 | 21.96 | 21.98 |
| CH 11 | 2462 MHz | 19.98 | 19.92 | 19.93 | 19.89 | 19.93 | 19.88 | 19.82 | 19.91 |
| CH 12 | 2467 MHz | 14.25 | 14.33 | 14.08 | 14.14 | 14.2 | 14 | 13.98 | 14.33 |
| CH 13 | 2472 MHz | 6.21 | 6.11 | 6.07 | 6.05 | 6.15 | 6.51 | 6.21 | 6.2 |

| Channel | Frequency | 2.4GHz 802.11n (BW 20MHz) RF Power (dBm) | | | | | | | |
|---------|-----------|--|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 01 | 2412 MHz | 22.37 | 22.34 | 22.31 | 22.36 | 22.30 | 22.29 | 21.79 | 21.21 |
| CH 06 | 2437 MHz | 22.61 | 22.52 | 22.57 | 22.60 | 22.55 | 22.59 | 22.60 | 22.58 |
| CH 11 | 2462 MHz | 18.57 | 18.46 | 18.61 | 18.92 | 18.97 | 18.65 | 18.99 | 18.99 |
| CH 12 | 2467 MHz | 14.47 | 14.19 | 14.14 | 14.01 | 14.03 | 14.37 | 14.32 | 14.25 |
| CH 13 | 2472 MHz | 6.12 | 6.07 | 6.21 | 6.09 | 6.15 | 6.07 | 6.29 | 6.21 |

| Channel | Frequency | 5GHz 802.11a RF Power (dBm) | | | | | | | |
|---------|-----------|-----------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH149 | 5745 MHz | 17.53 | 17.46 | 17.49 | 17.48 | 17.51 | 17.49 | 17.52 | 17.51 |
| CH157 | 5785 MHz | 17.41 | 17.25 | 17.02 | 16.81 | 16.78 | 17.06 | 17.28 | 17.23 |
| CH165 | 5825 MHz | 17.26 | 17.04 | 16.97 | 16.92 | 16.99 | 17.05 | 16.88 | 16.90 |

| Channel | Frequency | 5GHz 802.11n (BW 20MHz) RF Power (dBm) | | | | | | | |
|---------|-----------|--|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH149 | 5745 MHz | 17.81 | 17.78 | 17.72 | 17.74 | 17.78 | 17.79 | 17.80 | 17.79 |
| CH157 | 5785 MHz | 17.75 | 17.70 | 17.57 | 17.56 | 17.53 | 17.51 | 17.47 | 17.45 |
| CH165 | 5825 MHz | 17.63 | 17.60 | 17.46 | 17.45 | 17.57 | 17.50 | 17.47 | 17.49 |

Remark:

1. The EUT is programmed to transmit signals continuously for all testing.
2. The Sample A and Sample B are electric identical,. The maximum output power levels for two samples are close and met the production target . Thus, Sample A was used for conducted measurement at the antenna terminal, and Sample B was used for radiated measurement.

2.3 Average Conducted Output Power

The conducted power tables of Sample A are as follows:

| Channel | Frequency | 2.4GHz 802.11b Average Power (dBm) | | | |
|---------|-----------|------------------------------------|--------|----------|---------|
| | | DSSS Data Rate | | | |
| | | 1 Mbps | 2 Mbps | 5.5 Mbps | 11 Mbps |
| CH 01 | 2412 MHz | 15.18 | 15.13 | 15.25 | 15.35 |
| CH 06 | 2437 MHz | 16.42 | 16.32 | 16.11 | 16.27 |
| CH 11 | 2462 MHz | 16.38 | 16.37 | 16.23 | 16.32 |
| CH 12 | 2467 MHz | 9.05 | 10.05 | 9.75 | 9.95 |
| CH 13 | 2472 MHz | 6.65 | 6.56 | 6.7 | 6.73 |

| Channel | Frequency | 2.4GHz 802.11g Average Power (dBm) | | | | | | | |
|---------|-----------|------------------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 01 | 2412 MHz | 14.61 | 14.92 | 15.00 | 14.84 | 14.84 | 14.64 | 14.91 | 14.60 |
| CH 06 | 2437 MHz | 16.15 | 16.13 | 16.11 | 16.12 | 15.96 | 16.14 | 16.17 | 16.20 |
| CH 11 | 2462 MHz | 14.15 | 14.17 | 14.36 | 14.44 | 14.05 | 14.19 | 14.06 | 13.81 |
| CH 12 | 2467 MHz | 8.15 | 8.19 | 8.13 | 8.05 | 7.94 | 7.98 | 7.98 | 7.82 |
| CH 13 | 2472 MHz | 0.51 | 0.6 | 0.2 | 0.32 | 0.3 | 0.39 | 0.27 | 0.35 |

| Channel | Frequency | 2.4GHz 802.11n (BW 20MHz) Average Power (dBm) | | | | | | | |
|---------|-----------|---|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 01 | 2412 MHz | 14.82 | 14.81 | 14.73 | 14.82 | 14.83 | 14.44 | 14.69 | 14.85 |
| CH 06 | 2437 MHz | 16.49 | 16.40 | 16.36 | 16.30 | 16.26 | 16.13 | 16.25 | 16.29 |
| CH 11 | 2462 MHz | 12.70 | 12.67 | 12.79 | 12.77 | 12.68 | 12.59 | 12.79 | 12.33 |
| CH 12 | 2467 MHz | 7.94 | 8.00 | 8.08 | 8.01 | 7.96 | 7.86 | 7.86 | 7.95 |
| CH 13 | 2472 MHz | 0.12 | 0.10 | 0.12 | 0.16 | 0.17 | -0.03 | 0.01 | -0.01 |

| Channel | Frequency | 5GHz 802.11a Average Power (dBm) | | | | | | | |
|---------|-----------|----------------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH149 | 5745 MHz | 14.78 | 14.43 | 14.52 | 14.32 | 14.34 | 14.34 | 14.62 | 14.63 |
| CH157 | 5785 MHz | 14.61 | 14.55 | 14.11 | 14.28 | 14.42 | 14.22 | 14.22 | 14.42 |
| CH165 | 5825 MHz | 14.41 | 14.40 | 14.11 | 14.34 | 14.37 | 14.23 | 14.35 | 14.40 |

| Channel | Frequency | 5GHz 802.11n (BW 20MHz) Average Power (dBm) | | | | | | | |
|---------|-----------|---|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH149 | 5745 MHz | 14.99 | 14.93 | 14.82 | 14.95 | 14.70 | 15.00 | 14.78 | 14.81 |
| CH157 | 5785 MHz | 15.19 | 15.17 | 14.80 | 14.87 | 14.83 | 14.76 | 14.73 | 14.81 |
| CH165 | 5825 MHz | 15.06 | 14.93 | 14.63 | 14.40 | 14.47 | 14.61 | 14.61 | 14.70 |

The conducted power tables of Sample B are as follows:

| Channel | Frequency | 2.4GHz 802.11b Average Power (dBm) | | | |
|---------|-----------|------------------------------------|--------|----------|---------|
| | | DSSS Data Rate | | | |
| | | 1 Mbps | 2 Mbps | 5.5 Mbps | 11 Mbps |
| CH 01 | 2412 MHz | 15.22 | 13.31 | 13.40 | 13.33 |
| CH 06 | 2437 MHz | 16.01 | 15.89 | 15.78 | 15.76 |
| CH 11 | 2462 MHz | 16.13 | 15.72 | 15.82 | 15.87 |
| CH 12 | 2467 MHz | 9.31 | 9.16 | 9.18 | 9.10 |
| CH 13 | 2472 MHz | 6.29 | 6.22 | 6.15 | 6.02 |

| Channel | Frequency | 2.4GHz 802.11g Average Power (dBm) | | | | | | | |
|---------|-----------|------------------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 01 | 2412 MHz | 13.11 | 13.52 | 13.57 | 13.63 | 13.55 | 13.53 | 13.40 | 13.49 |
| CH 06 | 2437 MHz | 16.03 | 16.02 | 16.00 | 15.99 | 15.97 | 15.90 | 15.89 | 15.86 |
| CH 11 | 2462 MHz | 14.02 | 13.89 | 13.92 | 13.88 | 13.74 | 13.78 | 13.64 | 13.71 |
| CH 12 | 2467 MHz | 7.14 | 6.99 | 7.26 | 7.2 | 8.03 | 7.89 | 7.81 | 7.74 |
| CH 13 | 2472 MHz | 0.38 | 0.18 | 0.21 | 0.17 | 0.11 | 0.36 | 0.31 | 0.25 |

| Channel | Frequency | 2.4GHz 802.11n (BW 20MHz) Average Power (dBm) | | | | | | | |
|---------|-----------|---|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 01 | 2412 MHz | 15.33 | 15.31 | 15.24 | 15.36 | 15.31 | 14.82 | 15.02 | 15.21 |
| CH 06 | 2437 MHz | 16.29 | 16.27 | 16.25 | 16.21 | 16.28 | 16.20 | 16.16 | 16.23 |
| CH 11 | 2462 MHz | 12.48 | 12.41 | 12.58 | 12.44 | 12.38 | 12.28 | 12.39 | 12.01 |
| CH 12 | 2467 MHz | 7.28 | 7.16 | 7.15 | 7.09 | 7.07 | 7.01 | 7.95 | 7.91 |
| CH 13 | 2472 MHz | 0.52 | 0.5 | 0.59 | 0.48 | 0.49 | 0.41 | 0.61 | 0.65 |

| Channel | Frequency | 5GHz 802.11a Average Power (dBm) | | | | | | | |
|---------|-----------|----------------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH149 | 5745 MHz | 14.72 | 14.71 | 14.70 | 14.71 | 14.70 | 14.68 | 14.70 | 14.67 |
| CH157 | 5785 MHz | 14.36 | 14.21 | 13.87 | 13.58 | 13.21 | 14.36 | 14.24 | 14.02 |
| CH165 | 5825 MHz | 14.28 | 14.06 | 13.66 | 13.47 | 13.49 | 13.47 | 13.34 | 13.25 |

| Channel | Frequency | 5GHz 802.11n (BW 20MHz) Average Power (dBm) | | | | | | | |
|---------|-----------|---|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH149 | 5745 MHz | 15.02 | 14.71 | 14.69 | 14.56 | 14.61 | 14.45 | 14.50 | 14.52 |
| CH157 | 5785 MHz | 15.01 | 14.81 | 14.60 | 14.65 | 14.57 | 14.59 | 14.55 | 14.57 |
| CH165 | 5825 MHz | 14.99 | 14.98 | 14.84 | 14.80 | 14.67 | 14.81 | 14.76 | 14.73 |

2.4 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 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), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Definition of each configuration about keypad and Camera for EUT

| Keypads | Cameras |
|-------------|--------------------|
| (1) Qwerty | (1) With camera |
| (2) Numeric | (2) Without camera |
| (3) PIM | |

Pre-scanned tests, X, Y, Z in three orthogonal panels, were conducted to determine the final configuration from all possible combinations.

The following table is showing the total pre-scanned test modes, and the worst cases (Y and Z plane) are recorded in this report only.

| Test Modes | | | | | |
|--------------|-----------|------------|---------------|--------|--------|
| Radiated TCs | | | | | |
| No. | Data Rate | Modulation | Mode | Keypad | Camera |
| 1 | 802.11b | DSSS | CH01_2412 MHz | 1 | 1 |
| 2 | 802.11b | DSSS | CH06_2437 MHz | 1 | 1 |
| 3 | 802.11b | DSSS | CH11_2462 MHz | 1 | 1 |
| 4 | 802.11b | DSSS | CH12_2467 MHz | 1 | 1 |
| 5 | 802.11b | DSSS | CH13_2472 MHz | 1 | 1 |
| 6 | 802.11g | OFDM | CH01_2412 MHz | 1 | 1 |
| 7 | 802.11g | OFDM | CH06_2437 MHz | 1 | 1 |
| 8 | 802.11g | OFDM | CH11_2462 MHz | 1 | 1 |
| 9 | 802.11g | OFDM | CH12_2467 MHz | 1 | 1 |
| 10 | 802.11g | OFDM | CH13_2472 MHz | 1 | 1 |
| 11 | 802.11g | OFDM | CH11_2462 MHz | 2 | 1 |
| 12 | 802.11g | OFDM | CH11_2462 MHz | 3 | 1 |
| 13 | 802.11g | OFDM | CH11_2462 MHz | 1 | 2 |

| Test Modes | | | | | |
|---|-----------|------------|-------------------------|--------|--------|
| Radiated TCs | | | | | |
| No. | Data Rate | Modulation | Mode | Keypad | Camera |
| 14 | 802.11n | OFDM | CH01_2412 MHz (BW 20M) | 1 | 1 |
| 15 | 802.11n | OFDM | CH06_2437 MHz (BW 20M) | 1 | 1 |
| 16 | 802.11n | OFDM | CH11_2462 MHz (BW 20M) | 1 | 1 |
| 17 | 802.11n | OFDM | CH12_2467 MHz (BW 20M) | 1 | 1 |
| 18 | 802.11n | OFDM | CH13_2472 MHz (BW 20M) | 1 | 1 |
| 19 | 802.11a | OFDM | CH149_5745 MHz | 1 | 1 |
| 20 | 802.11a | OFDM | CH157_5785 MHz | 1 | 1 |
| 21 | 802.11a | OFDM | CH165_5825 MHz | 1 | 1 |
| 22 | 802.11n | OFDM | CH149_5745 MHz (BW 20M) | 1 | 1 |
| 23 | 802.11n | OFDM | CH157_5785 MHz (BW 20M) | 1 | 1 |
| 24 | 802.11n | OFDM | CH165_5825 MHz (BW 20M) | 1 | 1 |
| 25 | 802.11n | OFDM | CH149_5745 MHz (BW 20M) | 2 | 1 |
| 26 | 802.11n | OFDM | CH149_5745 MHz (BW 20M) | 3 | 1 |
| 27 | 802.11n | OFDM | CH149_5745 MHz (BW 20M) | 1 | 2 |
| Remark: For radiated TCs, test was performed together with USB charging cable with AC power. | | | | | |

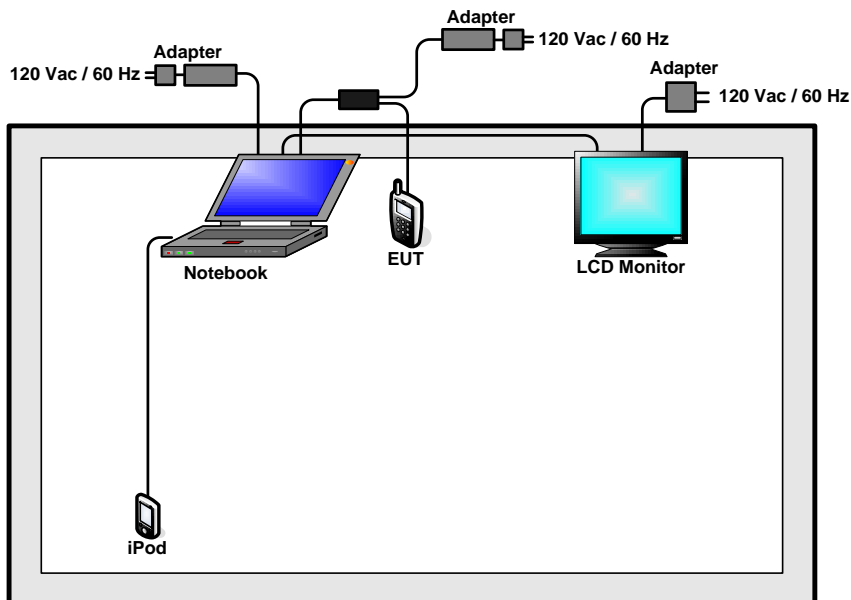


| Test Modes | | | |
|---------------|-----------|------------|-------------------------|
| Conducted TCs | | | |
| No. | Data Rate | Modulation | Mode |
| 1 | 802.11b | DSSS | CH01_2412 MHz |
| 2 | 802.11b | DSSS | CH06_2437 MHz |
| 3 | 802.11b | DSSS | CH11_2462 MHz |
| 4 | 802.11g | OFDM | CH01_2412 MHz |
| 5 | 802.11g | OFDM | CH06_2437 MHz |
| 6 | 802.11g | OFDM | CH11_2462 MHz |
| 7 | 802.11n | OFDM | CH01_2412 MHz (BW 20M) |
| 8 | 802.11n | OFDM | CH06_2437 MHz (BW 20M) |
| 9 | 802.11n | OFDM | CH11_2462 MHz (BW 20M) |
| 10 | 802.11a | OFDM | CH149_5745 MHz |
| 11 | 802.11a | OFDM | CH157_5785 MHz |
| 12 | 802.11a | OFDM | CH165_5825 MHz |
| 13 | 802.11n | OFDM | CH149_5745 MHz (BW 20M) |
| 14 | 802.11n | OFDM | CH157_5785 MHz (BW 20M) |
| 15 | 802.11n | OFDM | CH165_5825 MHz (BW 20M) |

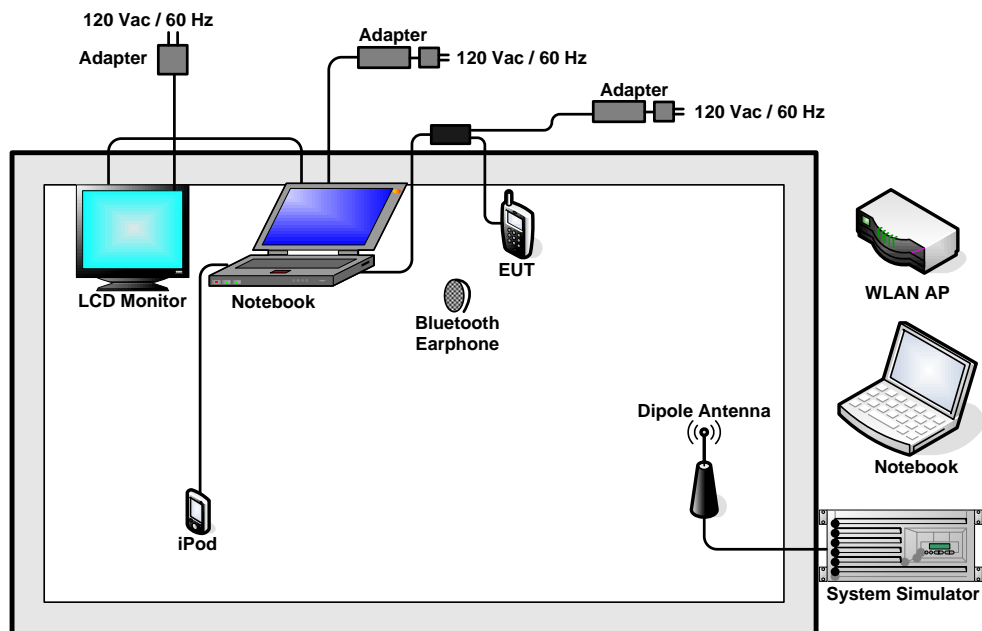
| Test Cases | |
|--|--|
| AC Conducted Emission | |
| Mode 1 | : GSM850 Idle + WLAN (2.4G) Link + Bluetooth Link + GPS Rx + Qwerty Keypad with Camera + USB Charging Cable with AC Power + USB Link |
| Mode 2 | WCDMA Band V Idle + WLAN (2.4G) Link + Bluetooth Link + Camera + Numeric Keypad without Camera + USB Charging Cable with AC Power + USB Link |
| Mode 3 | WCDMA Band II Idle + WLAN (2.4G) Link + Bluetooth Link + Scanner + PIM Keypad without Camera + USB Charging Cable with AC Power + USB Link |
| Mode 4 | WCDMA Band V Idle + WLAN (5G) Link + Bluetooth Link + Camera + Numeric Keypad without Camera + USB Charging Cable with AC Power + USB Link |
| Remark: | |
| 1. "BT Link" stands for EUT linked to Bluetooth Earphone by BT function. | |
| 2. "WLAN Link" stands for EUT associated with AP at 2.4GHz or 5GHz band. | |
| 3. "Scanner" stands for scanning and decoding a barcode by scanner. | |
| 4. "Camera" stands for playing camera to capture picture. | |
| 5. "USB Link" stands for data file transfer. | |
| 6. DSD keypad PCB is the same as Numeric keypad PCB, only difference is printed. | |

2.5 Connection Diagram of Test System

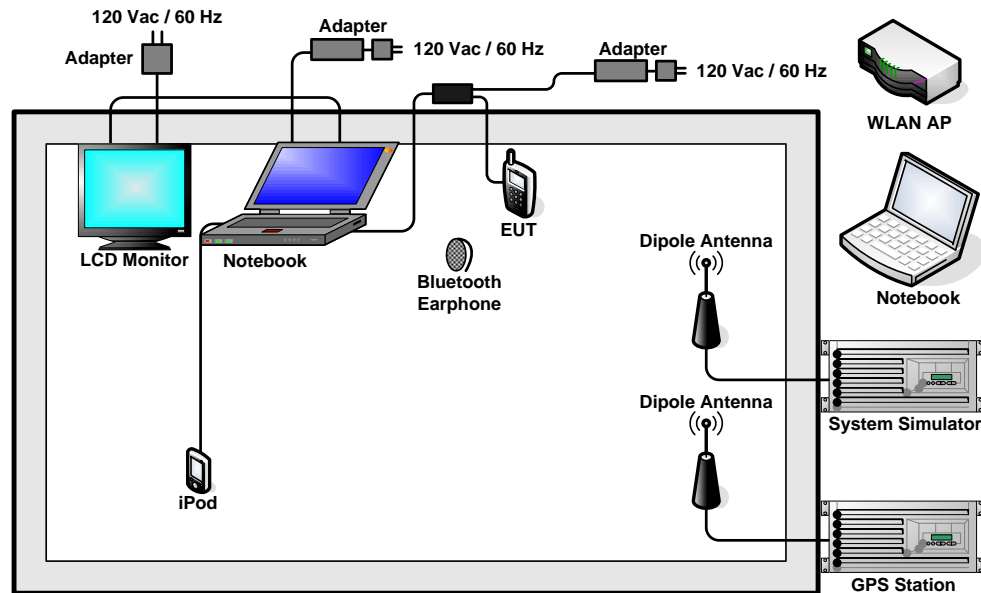
<WLAN Tx Mode>



<AC Conducted Emission Mode>



<AC Conducted Emission with GPS Rx Mode>



2.6 RF Utility

The programmed RF utility "FILE EXPLORER → My Device → Click ticon first then Click XWingcon → Execute the program to change Regulatory and click Enable Manufacturing Test mode → after Enable then change to Scripts", is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

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

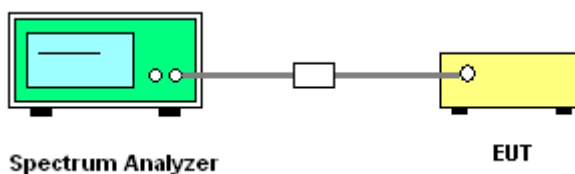
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable. The path loss was compensated to the results for each measurement.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1-5% of the emission bandwidth (EBW). Set the Video bandwidth (VBW) $\geq 3 * RBW$. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 KHz.
4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11b | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11b 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--------------------------------|-----------------------------------|-----------|
| 01 | 2412 | 9.173 | 0.5 | Pass |
| 06 | 2437 | 9.184 | 0.5 | Pass |
| 11 | 2462 | 9.161 | 0.5 | Pass |

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11g | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11g 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--------------------------------|-----------------------------------|-----------|
| 01 | 2412 | 16.518 | 0.5 | Pass |
| 06 | 2437 | 16.600 | 0.5 | Pass |
| 11 | 2462 | 16.589 | 0.5 | Pass |

| | | | |
|------------------------|--------------------|----------------------------|---------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 2.4GHz 802.11n (BW 20MHz) 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--|-----------------------------------|-----------|
| 01 | 2412 | 17.046 | 0.5 | Pass |
| 06 | 2437 | 16.913 | 0.5 | Pass |
| 11 | 2462 | 17.368 | 0.5 | Pass |



| | | | |
|------------------------|-------------|----------------------------|--------|
| Test Mode : | 802.11a | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11a 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--------------------------------|-----------------------------------|-----------|
| 149 | 5745 | 16.214 | 0.5 | Pass |
| 157 | 5785 | 16.095 | 0.5 | Pass |
| 165 | 5825 | 16.027 | 0.5 | Pass |

| | | | |
|------------------------|--------------------|----------------------------|--------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 5GHz 802.11n (BW 20MHz) 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--|-----------------------------------|-----------|
| 149 | 5745 | 17.183 | 0.5 | Pass |
| 157 | 5785 | 17.165 | 0.5 | Pass |
| 165 | 5825 | 17.387 | 0.5 | Pass |

3.1.6 Test Result of 99% Occupied Bandwidth

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11b | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11b 99% Occupied Bandwidth (MHz) | Pass/Fail |
|---------|-----------------|---|-----------|
| 01 | 2412 | 13.9697 | Pass |
| 06 | 2437 | 13.9996 | Pass |
| 11 | 2462 | 13.9971 | Pass |

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11g | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11g 99% Occupied Bandwidth (MHz) | Pass/Fail |
|---------|-----------------|---|-----------|
| 01 | 2412 | 18.0501 | Pass |
| 06 | 2437 | 18.5562 | Pass |
| 11 | 2462 | 17.7125 | Pass |

| | | | |
|------------------------|--------------------|----------------------------|---------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 2.4GHz 802.11n (BW 20MHz) 99% Occupied Bandwidth (MHz) | Pass/Fail |
|---------|-----------------|---|-----------|
| 01 | 2412 | 19.0688 | Pass |
| 06 | 2437 | 19.5749 | Pass |
| 11 | 2462 | 18.7785 | Pass |



| | | | |
|------------------------|-------------|----------------------------|--------|
| Test Mode : | 802.11a | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11a 99% Occupied Bandwidth (MHz) | Pass/Fail |
|---------|-----------------|---|-----------|
| 149 | 5745 | 19.2589 | Pass |
| 157 | 5785 | 19.7378 | Pass |
| 165 | 5825 | 19.3270 | Pass |

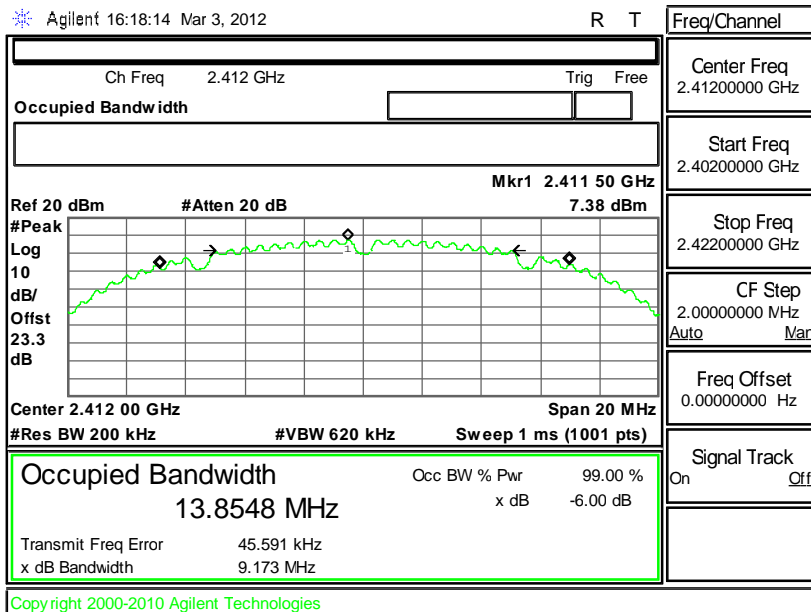
| | | | |
|------------------------|--------------------|----------------------------|--------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 5GHz 802.11n (BW 20MHz) 99% Occupied Bandwidth (MHz) | Pass/Fail |
|---------|-----------------|---|-----------|
| 149 | 5745 | 21.3192 | Pass |
| 157 | 5785 | 20.7580 | Pass |
| 165 | 5825 | 20.3761 | Pass |

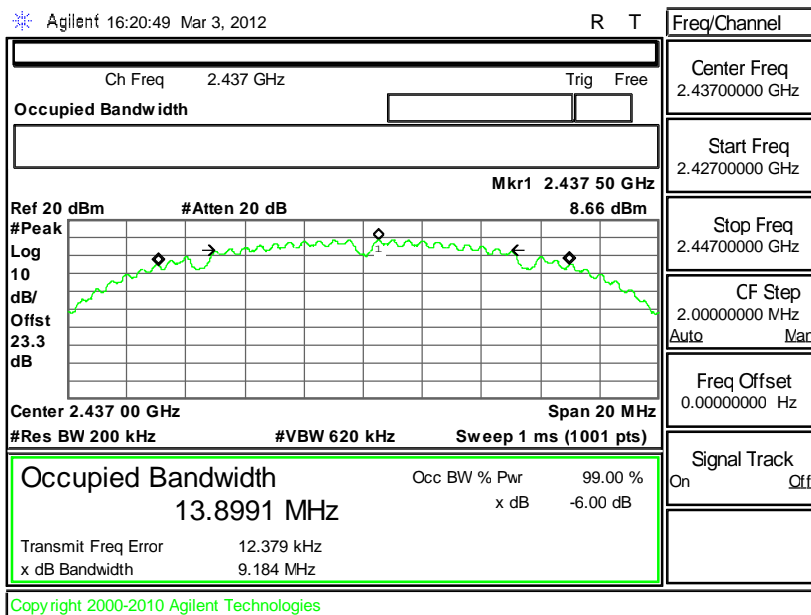


3.1.7 Test Result of 6dB Bandwidth Plots

6 dB Bandwidth Plot on 802.11b Channel 01

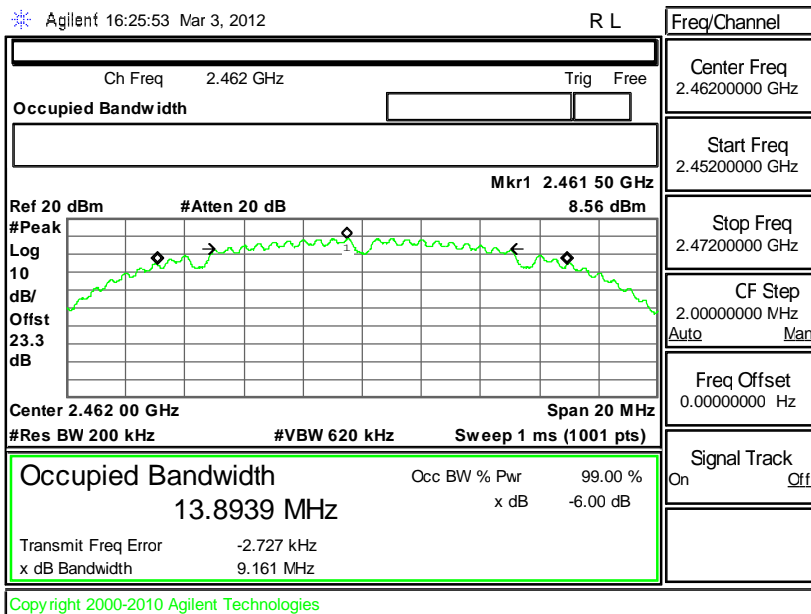


6 dB Bandwidth Plot on 802.11b Channel 06

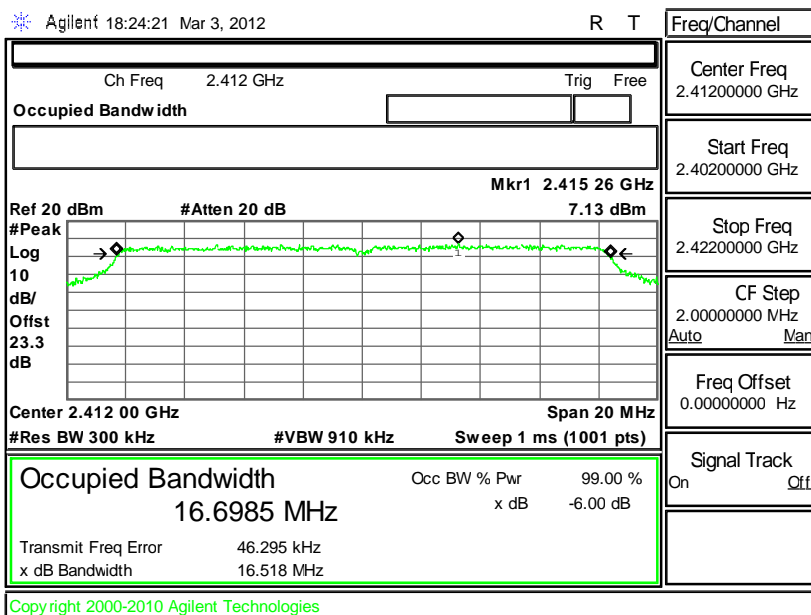




6 dB Bandwidth Plot on 802.11b Channel 11



6 dB Bandwidth Plot on 802.11g Channel 01

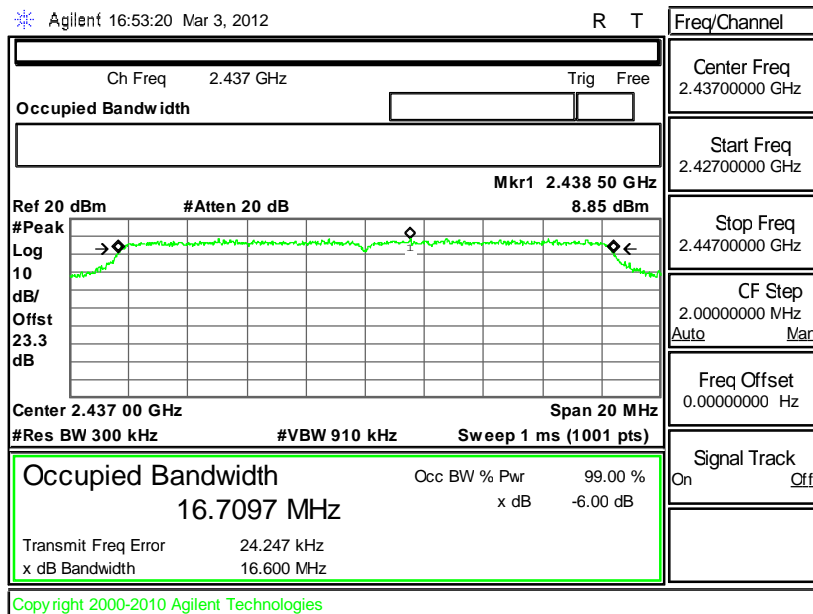




6 dB Bandwidth Plot on 802.11g Channel 06

Agilent 16:53:20 Mar 3, 2012

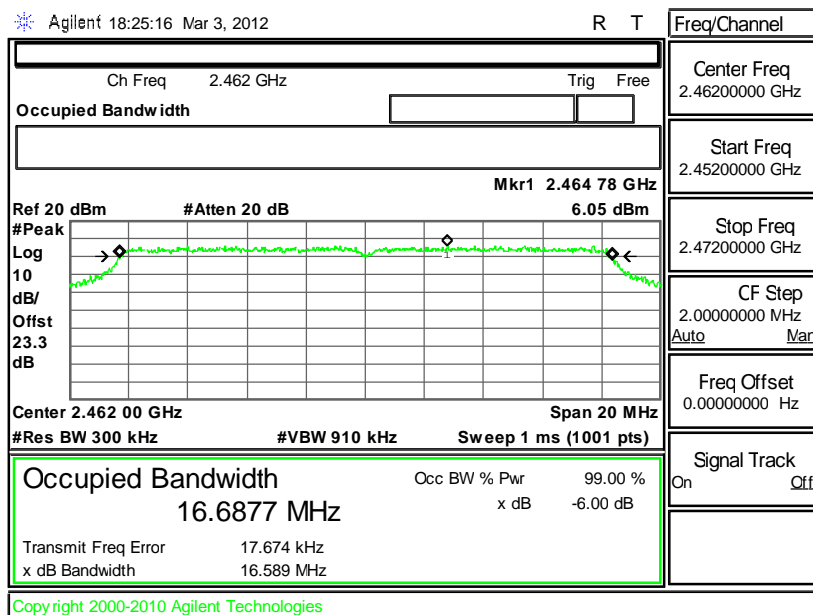
R T



6 dB Bandwidth Plot on 802.11g Channel 11

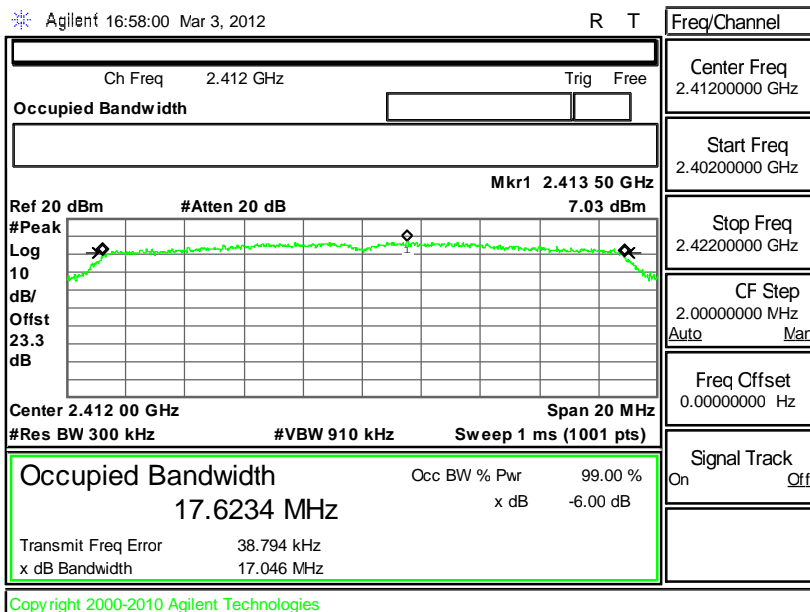
Agilent 18:25:16 Mar 3, 2012

R T

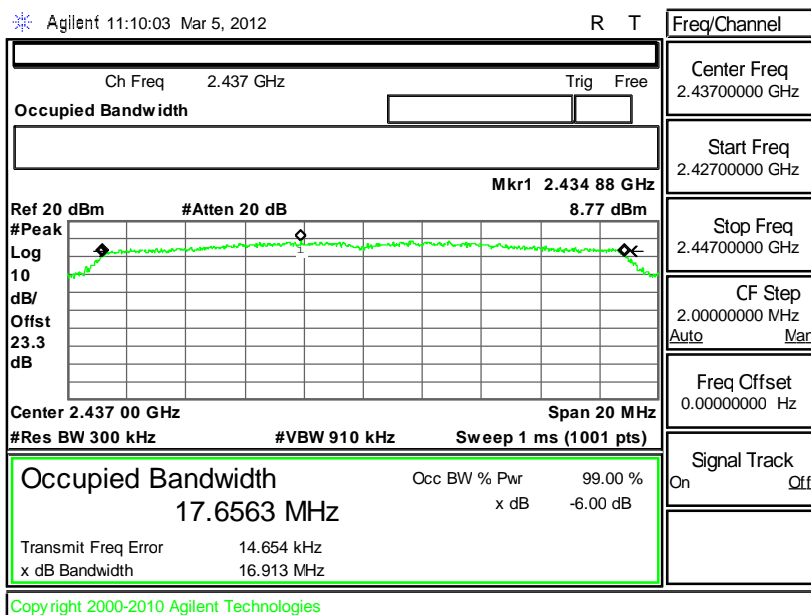




6 dB Bandwidth Plot on 2.4G 802.11n (BW 20MHz) Channel 01

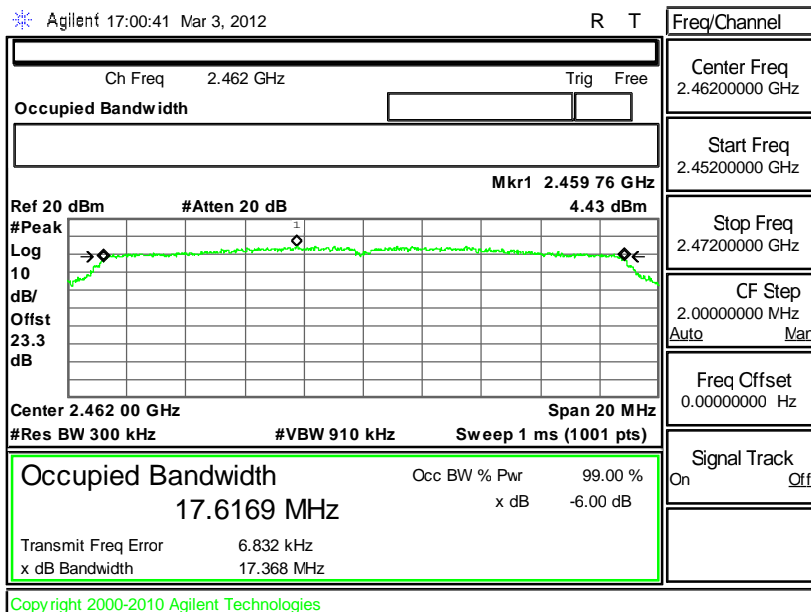


6 dB Bandwidth Plot on 2.4G 802.11n (BW 20MHz) Channel 06

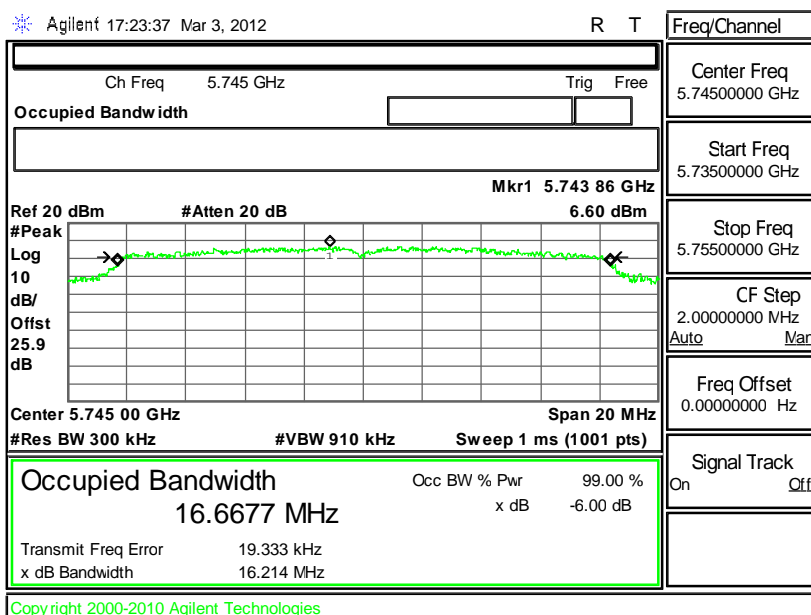




6 dB Bandwidth Plot on 2.4G 802.11n (BW 20MHz) Channel 11



6 dB Bandwidth Plot on 802.11a Channel 149

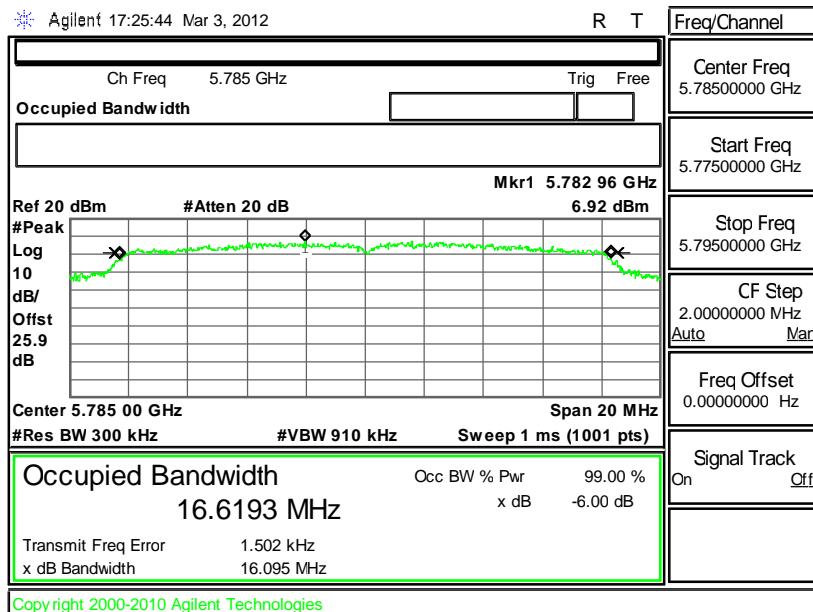




6 dB Bandwidth Plot on 802.11a Channel 157

Agilent 17:25:44 Mar 3, 2012

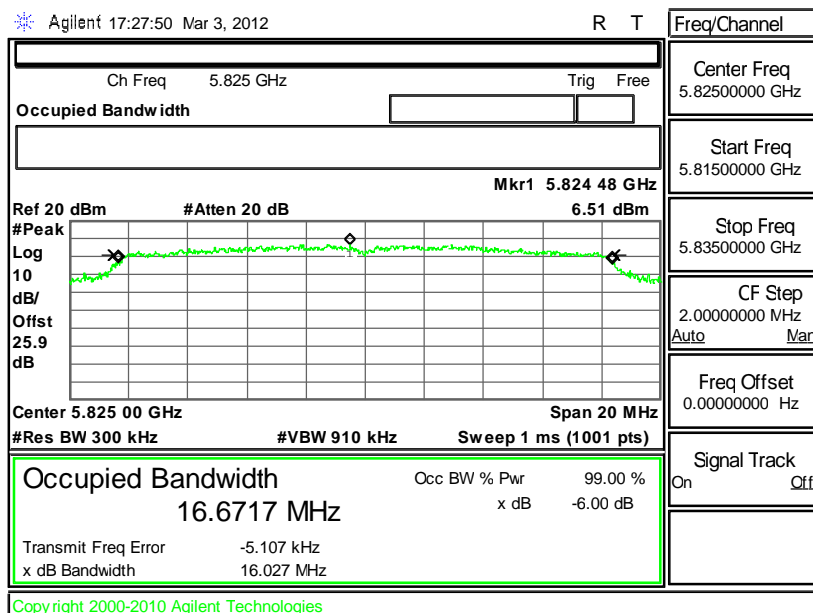
R T



6 dB Bandwidth Plot on 802.11a Channel 165

Agilent 17:27:50 Mar 3, 2012

R T

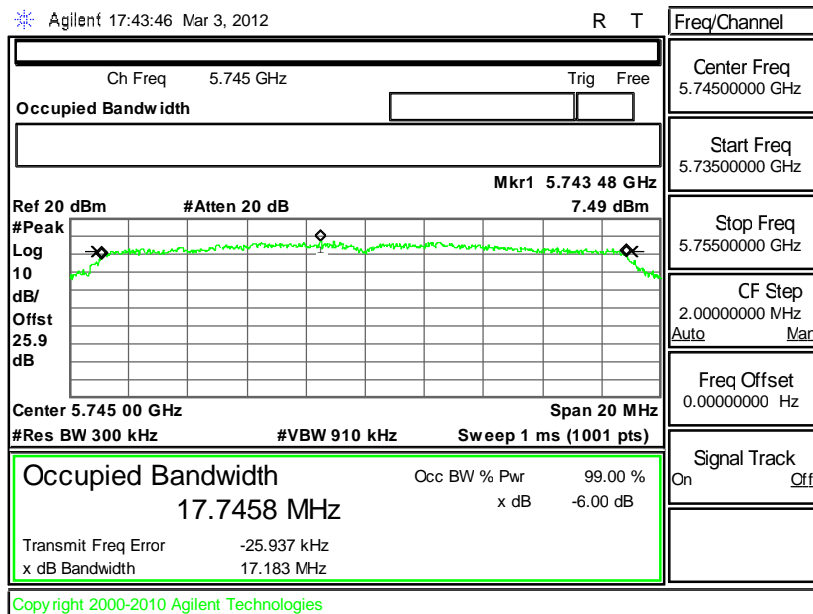




6 dB Bandwidth Plot on 5G 802.11n (BW 20MHz) Channel 149

Agilent 17:43:46 Mar 3, 2012

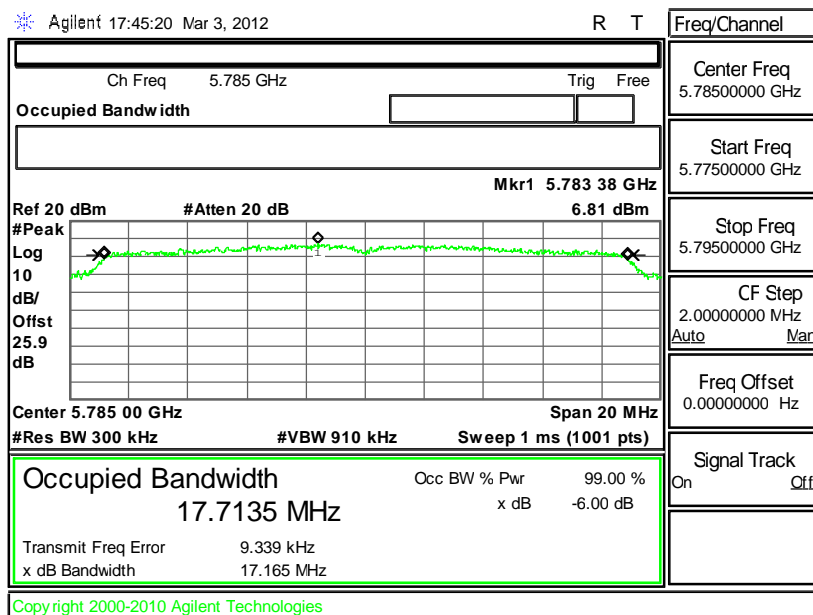
R T



6 dB Bandwidth Plot on 5G 802.11n (BW 20MHz) Channel 157

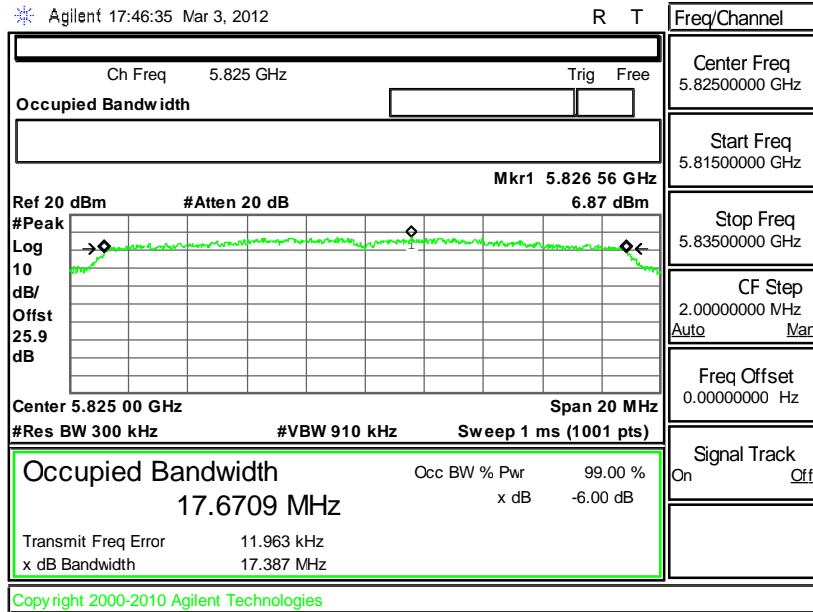
Agilent 17:45:20 Mar 3, 2012

R T





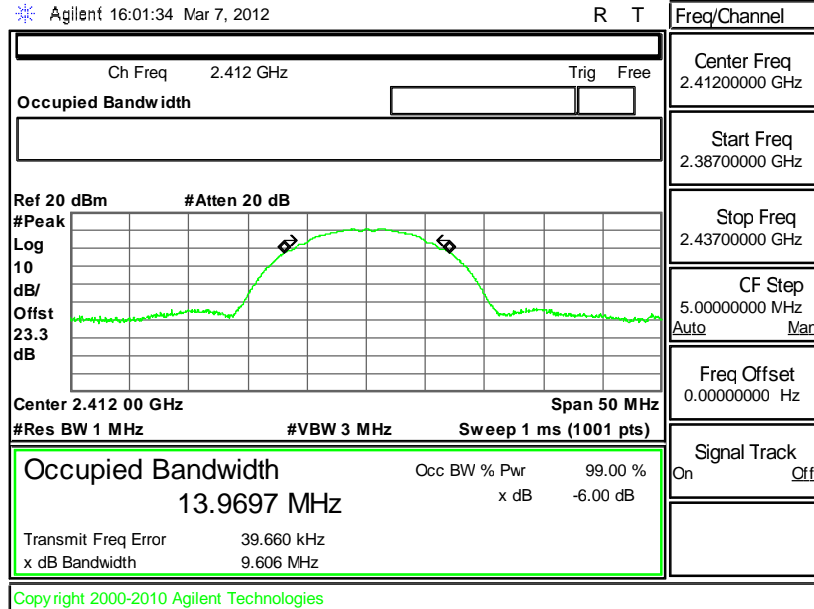
6 dB Bandwidth Plot on 5G 802.11n (BW 20MHz) Channel 165



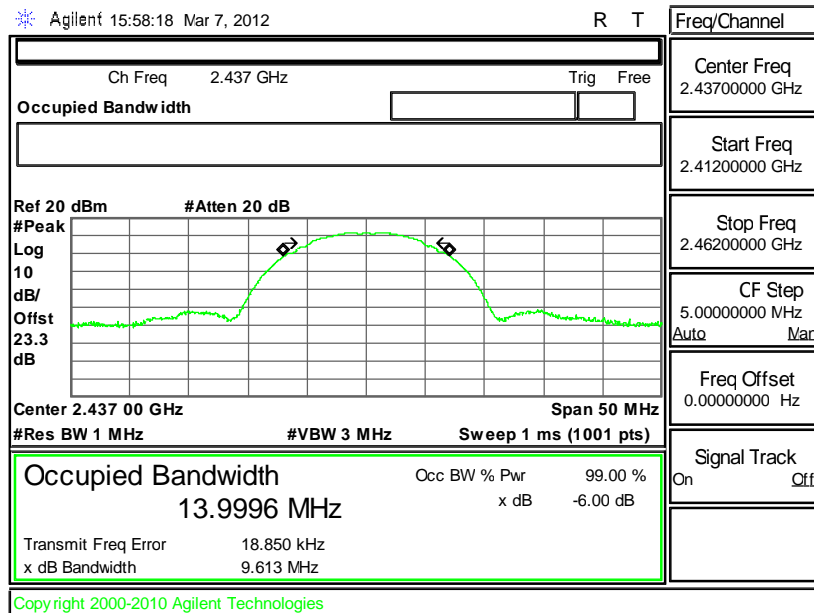


3.1.8 Test Result of 99% Bandwidth Plots

99% Occupied Bandwidth Plot on 802.11b Channel 01

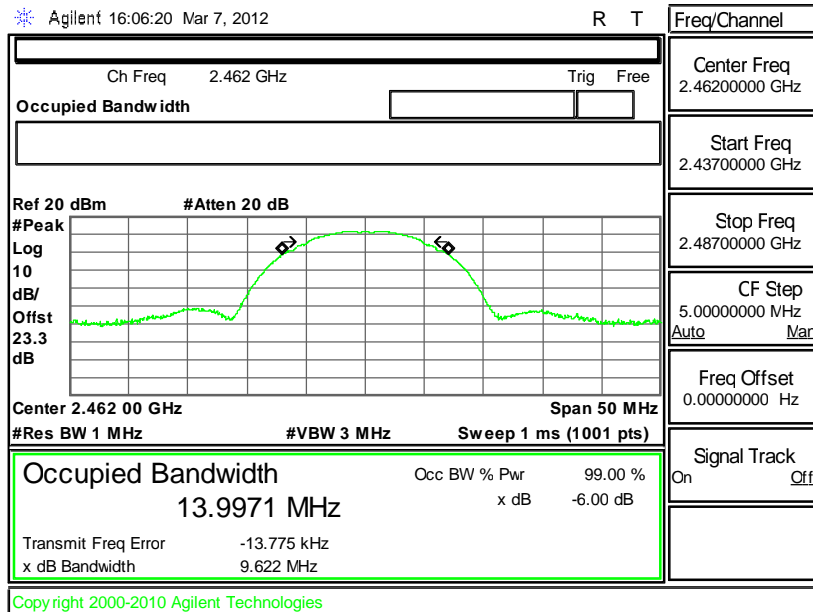


99% Occupied Bandwidth Plot on 802.11b Channel 06

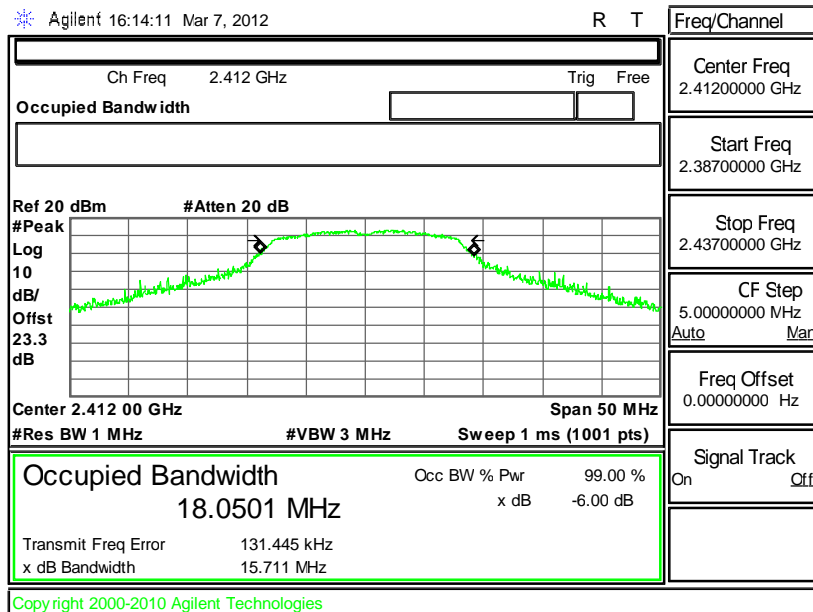




99% Occupied Bandwidth Plot on 802.11b Channel 11

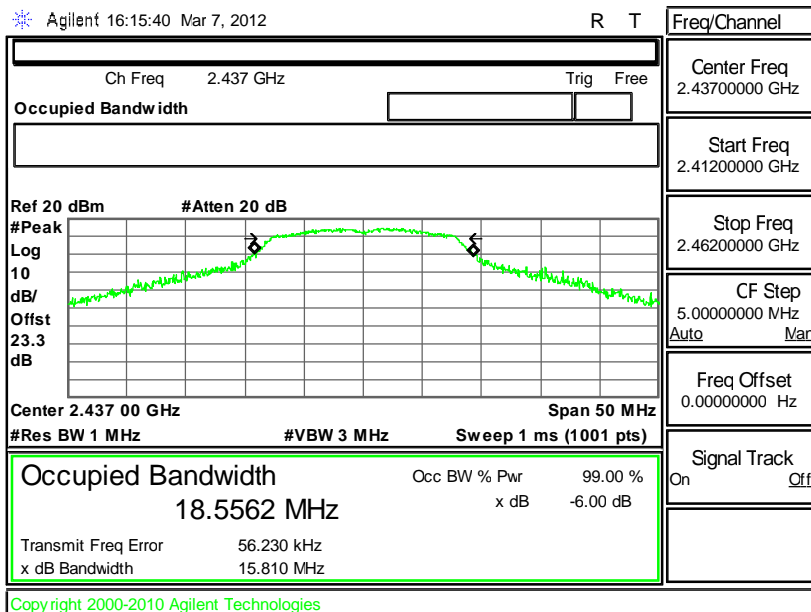


99% Occupied Bandwidth Plot on 802.11g Channel 01

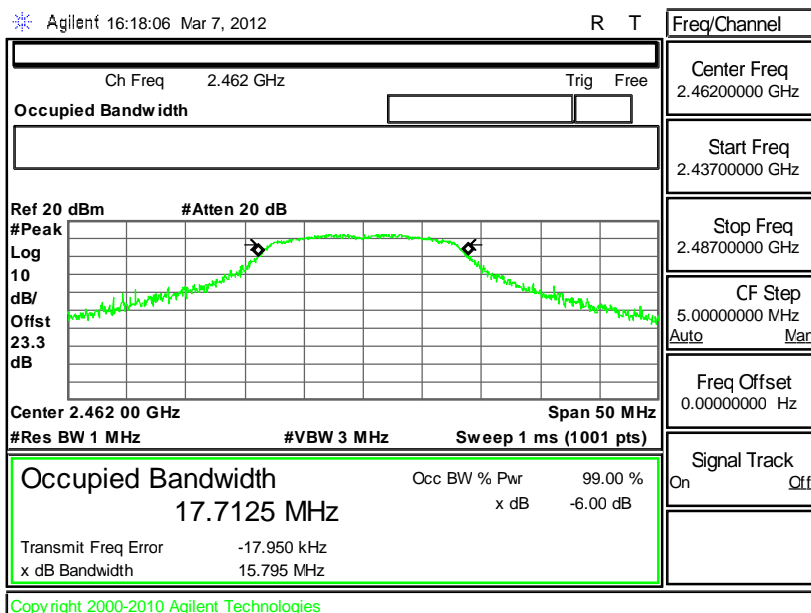




99% Occupied Bandwidth Plot on 802.11g Channel 06



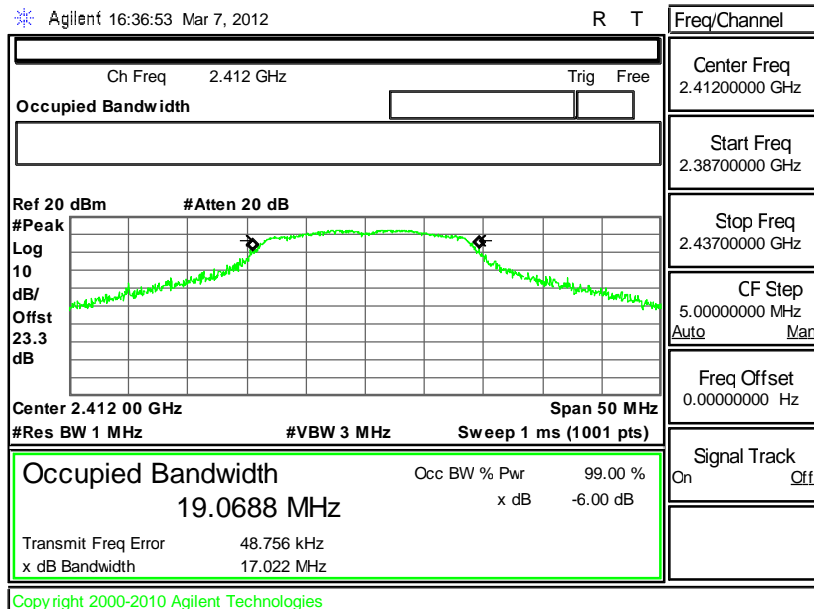
99% Occupied Bandwidth Plot on 802.11g Channel 11





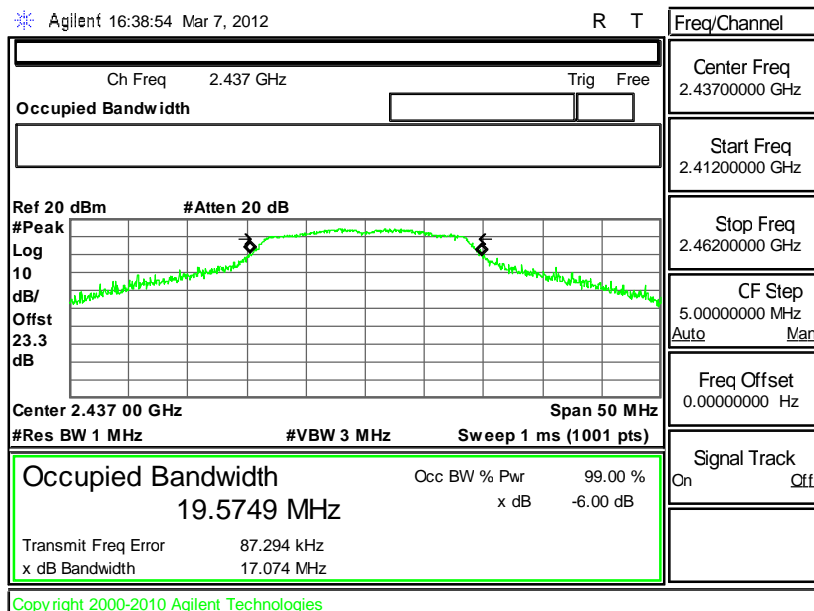
99% Occupied Bandwidth Plot on 2.4G 802.11n (BW 20MHz)

Channel 01



99% Occupied Bandwidth Plot on 2.4G 802.11n (BW 20MHz)

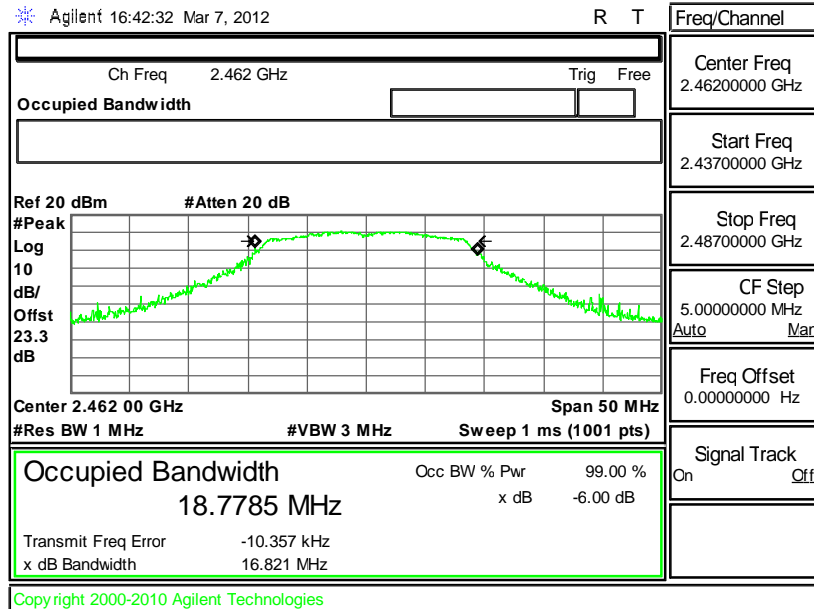
Channel 06



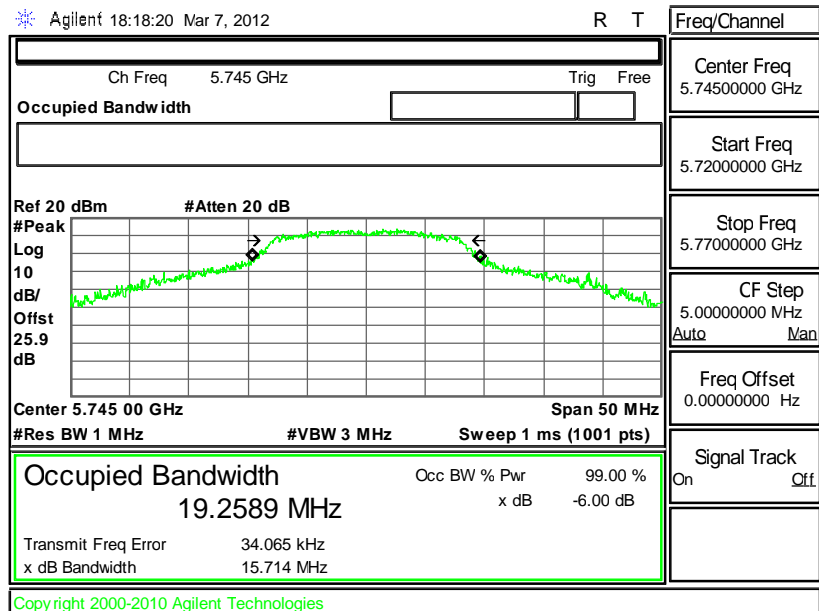


99% Occupied Bandwidth Plot on 2.4G 802.11n (BW 20MHz)

Channel 11

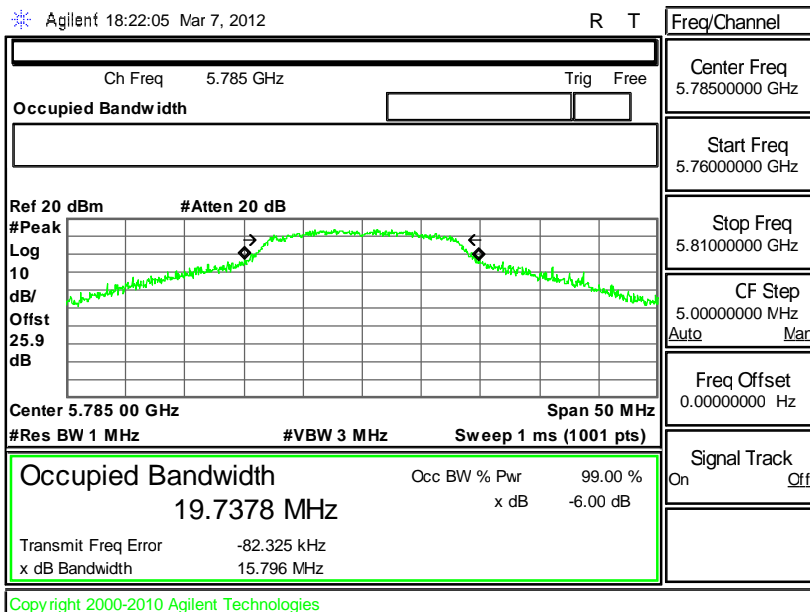


99% Occupied Bandwidth Plot on 802.11a Channel 149

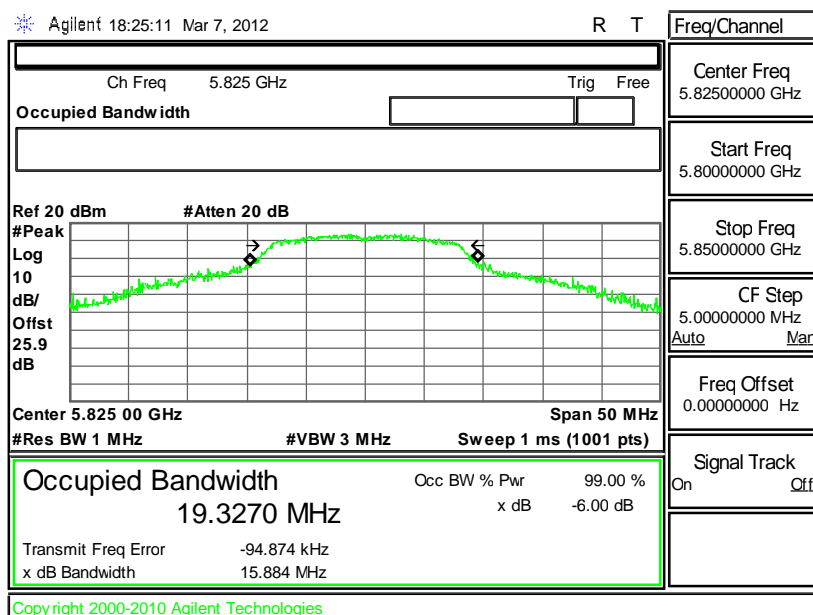




99% Occupied Bandwidth Plot on 802.11a Channel 157



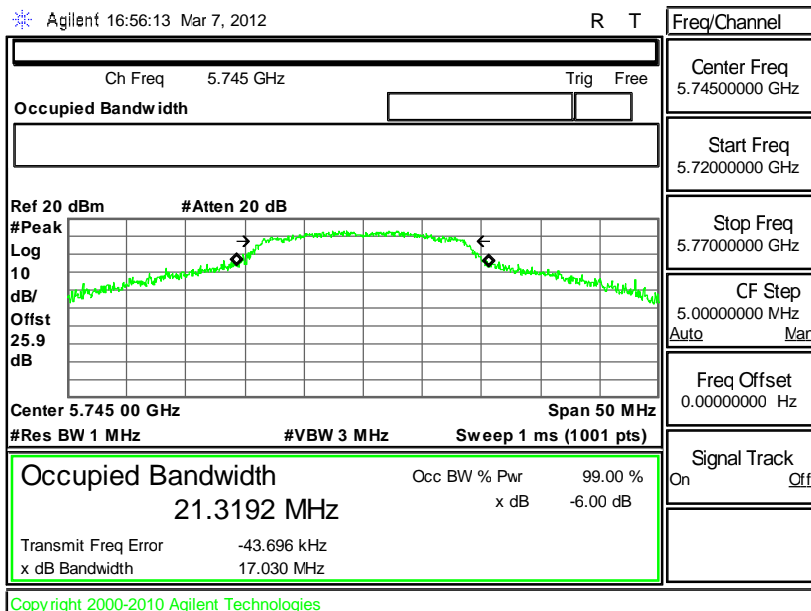
99% Occupied Bandwidth Plot on 802.11a Channel 165





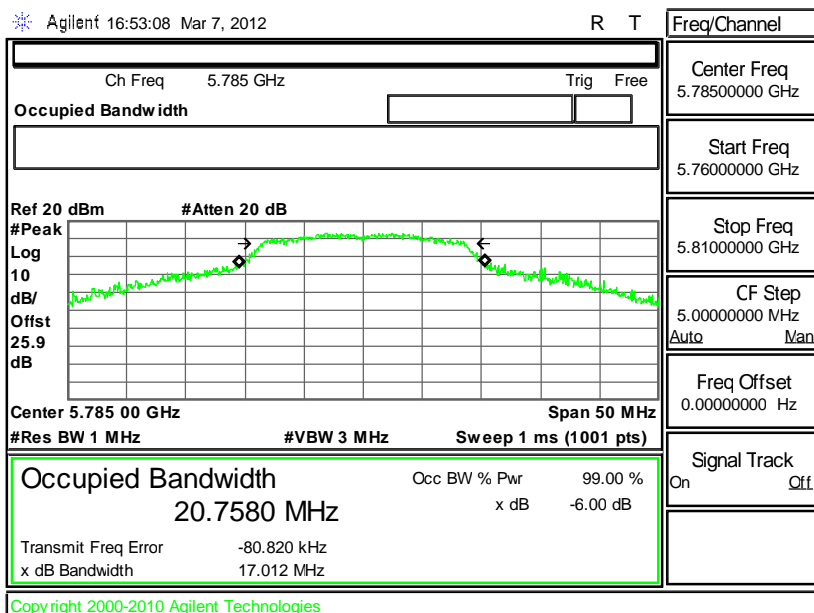
99% Occupied Bandwidth Plot on 5G 802.11n (BW 20MHz) Channel

149



99% Occupied Bandwidth Plot on 5G 802.11n (BW 20MHz) Channel

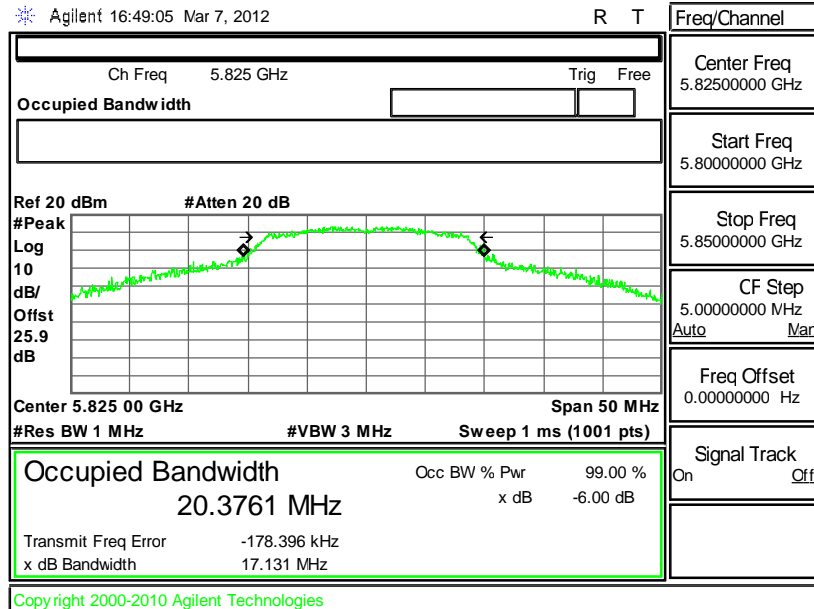
157





99% Occupied Bandwidth Plot on 5G 802.11n (BW 20MHz) Channel

165



3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz and 5725-5850MHz, 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.

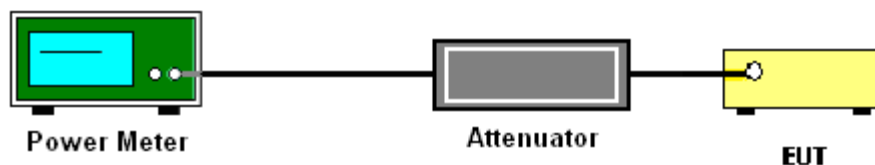
3.2.2 Measuring Instruments

See list of measuring instruments 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 and TCB Workshop 2012, April.
2. The RF output of EUT was connected to the power meter by a low loss cable
3. Measure the power by power meter.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11b | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11b Peak Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|------------------------------------|-------------------|-----------|
| 01 | 2412 | 17.65 | 30 | Pass |
| 06 | 2437 | 18.79 | 30 | Pass |
| 11 | 2462 | 18.56 | 30 | Pass |

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11g | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11g Peak Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|------------------------------------|-------------------|-----------|
| 01 | 2412 | 21.00 | 30 | Pass |
| 06 | 2437 | 22.64 | 30 | Pass |
| 11 | 2462 | 20.32 | 30 | Pass |

| | | | |
|------------------------|--------------------|----------------------------|---------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 2.4G 802.11n (BW 20MHz) Peak Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|--|-------------------|-----------|
| 01 | 2412 | 20.77 | 30 | Pass |
| 06 | 2437 | 22.45 | 30 | Pass |
| 11 | 2462 | 18.76 | 30 | Pass |

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11a | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11a Peak Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|------------------------------------|-------------------|-----------|
| 149 | 5745 | 17.57 | 30 | Pass |
| 157 | 5785 | 17.46 | 30 | Pass |
| 165 | 5825 | 17.48 | 30 | Pass |

| | | | |
|------------------------|--------------------|----------------------------|---------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 5G 802.11n (BW 20MHz) Peak Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|--|-------------------|-----------|
| 149 | 5745 | 17.85 | 30 | Pass |
| 157 | 5785 | 17.99 | 30 | Pass |
| 165 | 5825 | 17.75 | 30 | Pass |

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.

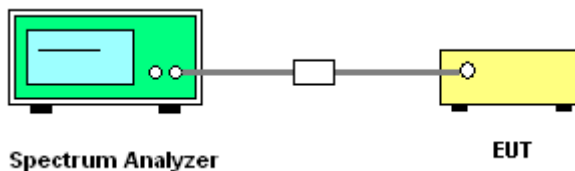
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 5.3.1 (Peak PSD) of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable. The path loss was compensated to the results for each measurement.
3. Record the measurement data derived from spectrum analyzer.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 KHz. Video bandwidth (VBW) \geq 300 KHz In order to make an accurate measurement, set the span to 5-30% greater than Emission Bandwidth (EBW)
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 in any 100 kHz band segment within the fundamental EBW.
6. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3\text{ kHz}/100\text{ kHz} = -15.2\text{ dB})$.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11b | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11b Power Density | | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|---------------------------|----------------|-------------------|-----------|
| | | Measured PSD/100KHz (dBm) | PSD/3KHz (dBm) | | |
| 01 | 2412 | 7.75 | -7.45 | 8 | Pass |
| 06 | 2437 | 8.91 | -6.29 | 8 | Pass |
| 11 | 2462 | 8.84 | -6.36 | 8 | Pass |

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11g | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11g Power Density | | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|---------------------------|----------------|-------------------|-----------|
| | | Measured PSD/100KHz (dBm) | PSD/3KHz (dBm) | | |
| 01 | 2412 | 5.49 | -9.71 | 8 | Pass |
| 06 | 2437 | 7.14 | -8.06 | 8 | Pass |
| 11 | 2462 | 4.76 | -10.44 | 8 | Pass |

| | | | |
|------------------------|--------------------|----------------------------|---------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 2.4G 802.11n (BW 20MHz) Power Density | | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|---------------------------------------|----------------|-------------------|-----------|
| | | Measured PSD/100KHz (dBm) | PSD/3KHz (dBm) | | |
| 01 | 2412 | 5.48 | -9.72 | 8 | Pass |
| 06 | 2437 | 7.41 | -7.79 | 8 | Pass |
| 11 | 2462 | 3.17 | -12.03 | 8 | Pass |

| | | | |
|------------------------|-------------|----------------------------|---------|
| Test Mode : | 802.11a | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11a Power Density | | Max. Limits (dBm) | Pass/Fail |
|---------|--------------------|------------------------------|----------------|----------------------|-----------|
| | | Measured PSD/100KHz (dBm) | PSD/3KHz (dBm) | | |
| 149 | 5745 | 6.38 | -8.82 | 8 | Pass |
| 157 | 5785 | 7.23 | -7.97 | 8 | Pass |
| 165 | 5825 | 6.31 | -8.89 | 8 | Pass |

| | | | |
|------------------------|--------------------|----------------------------|---------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 5G 802.11n (BW 20MHz) Power Density | | Max. Limits (dBm) | Pass/Fail |
|---------|--------------------|-------------------------------------|----------------|----------------------|-----------|
| | | Measured PSD/100KHz (dBm) | PSD/3KHz (dBm) | | |
| 149 | 5745 | 6.03 | -9.17 | 8 | Pass |
| 157 | 5785 | 6.52 | -8.68 | 8 | Pass |
| 165 | 5825 | 6.11 | -9.09 | 8 | Pass |

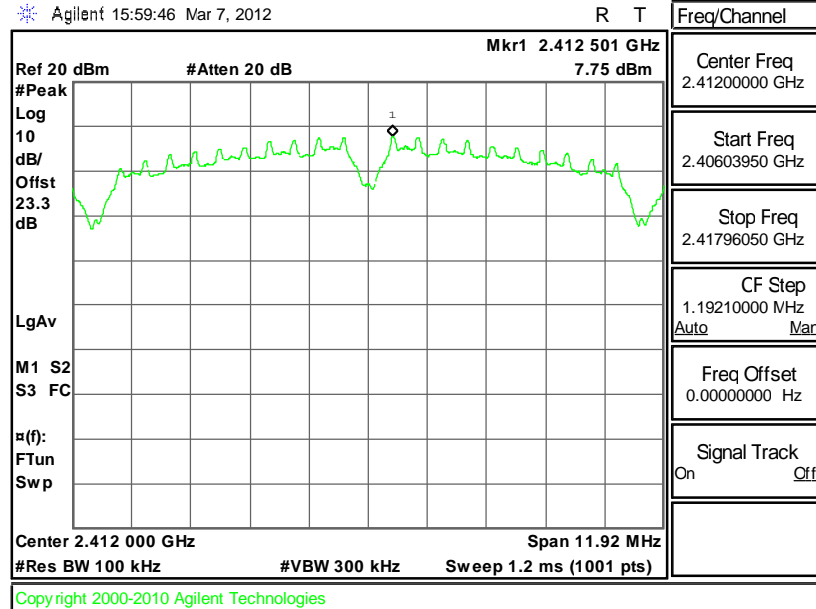
Note:

1. Measured power density (dBm) has offset with cable loss.
2. $BWCF (dB) = 10 \log (3k/100k) = -15.2 \text{ dB}$
3. $\text{Power Density/ 3kHz (dBm)} = \text{Measured power density/ 100KHz (dBm)} + BWCF (dB)$

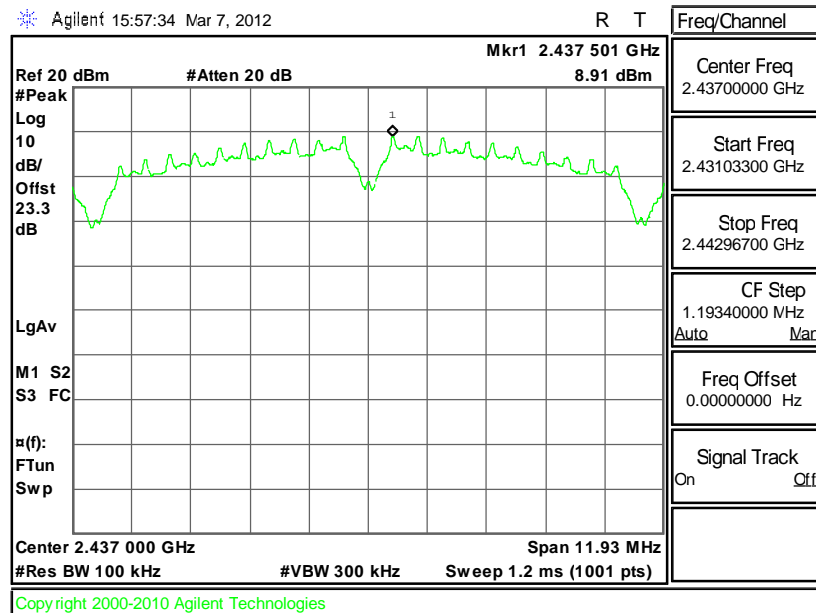


3.3.6 Test Result of Power Spectral Density Plots

PSD Plot on 802.11b Channel 01

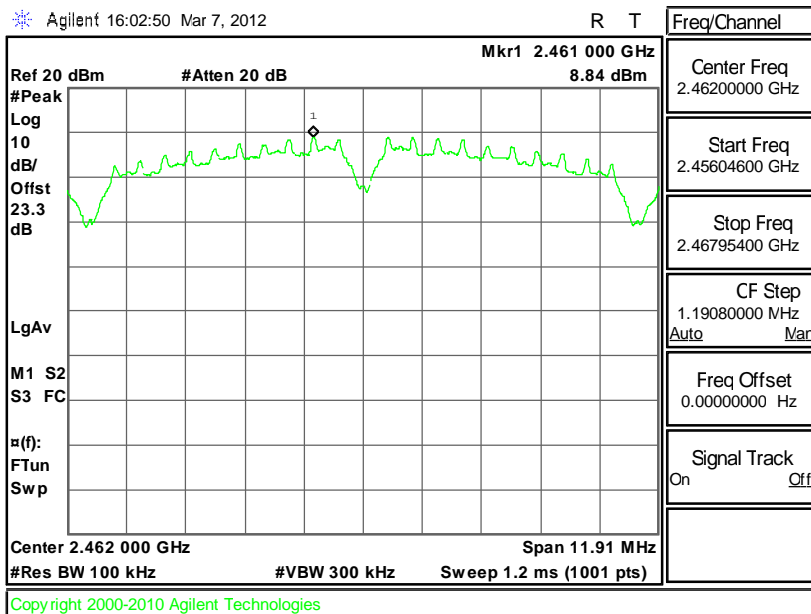


PSD Plot on 802.11b Channel 06

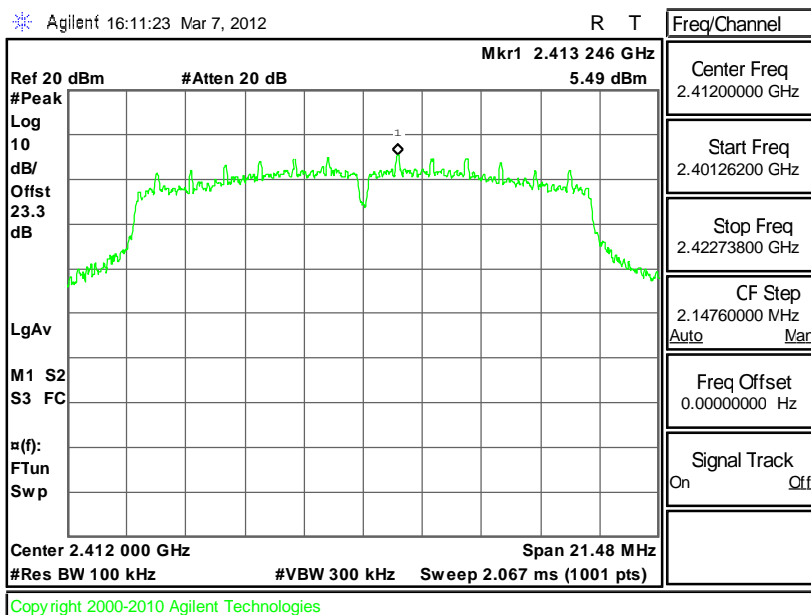




PSD Plot on 802.11b Channel 11

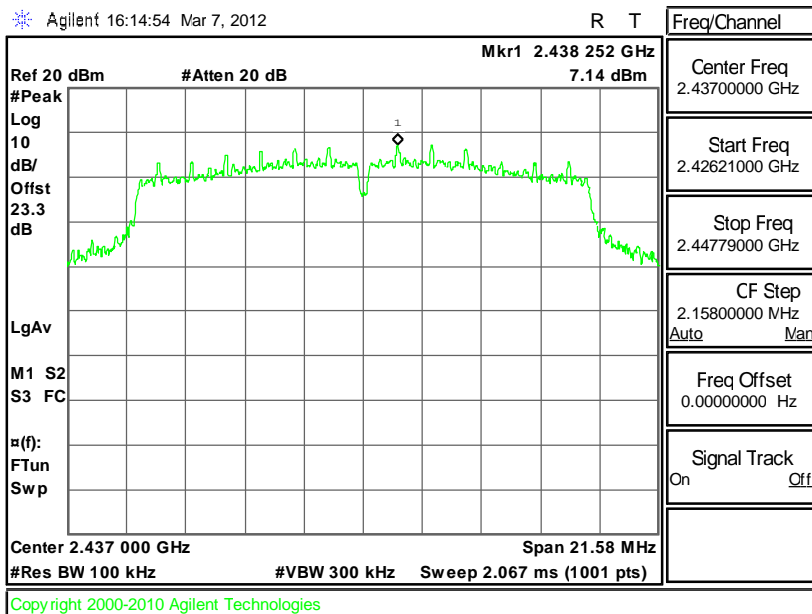


PSD Plot on 802.11g Channel 01

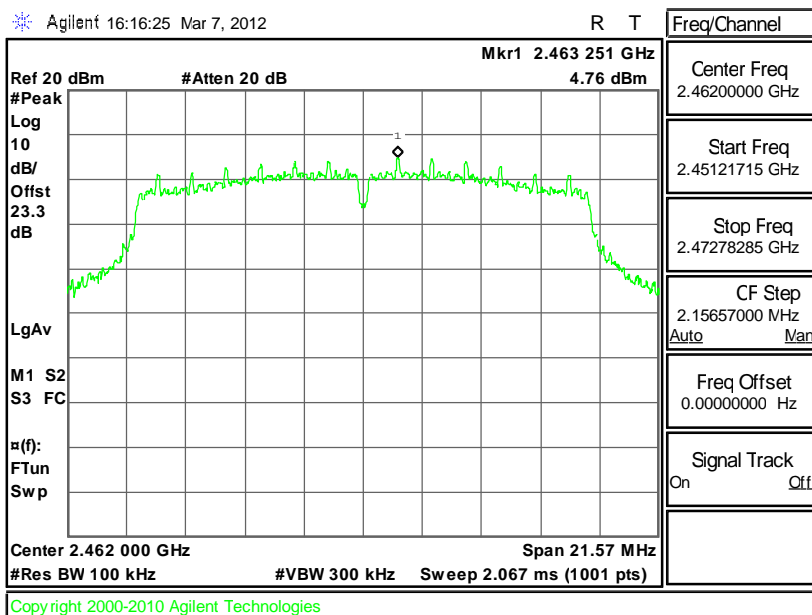




PSD Plot on 802.11g Channel 06

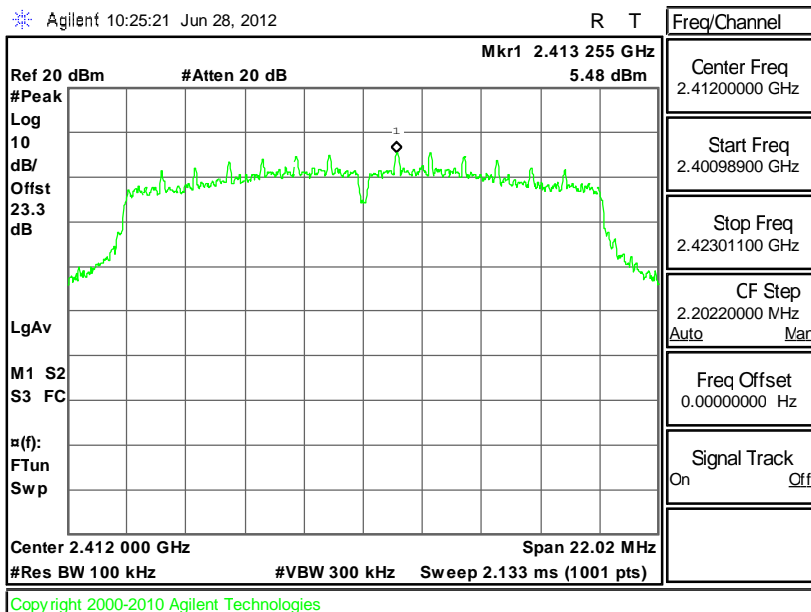


PSD Plot on 802.11g Channel 11

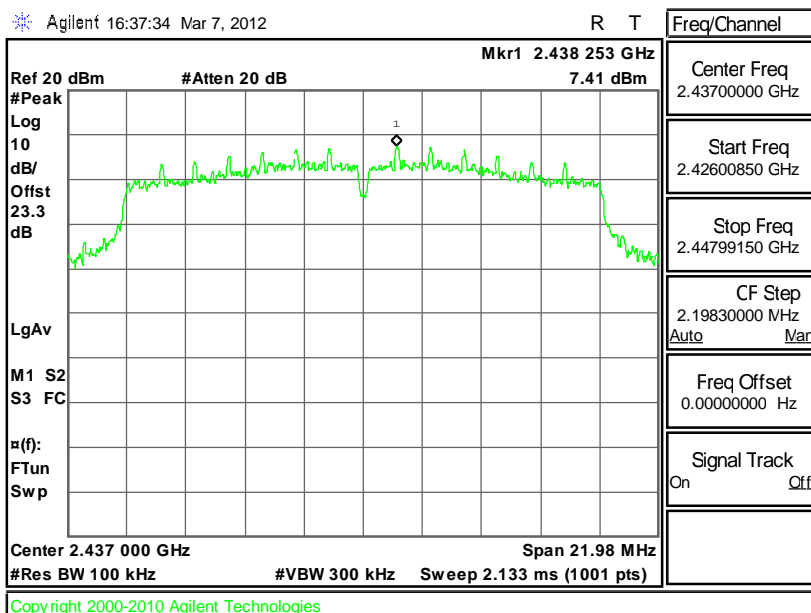




PSD Plot on 2.4G 802.11n (BW 20MHz) Channel 01

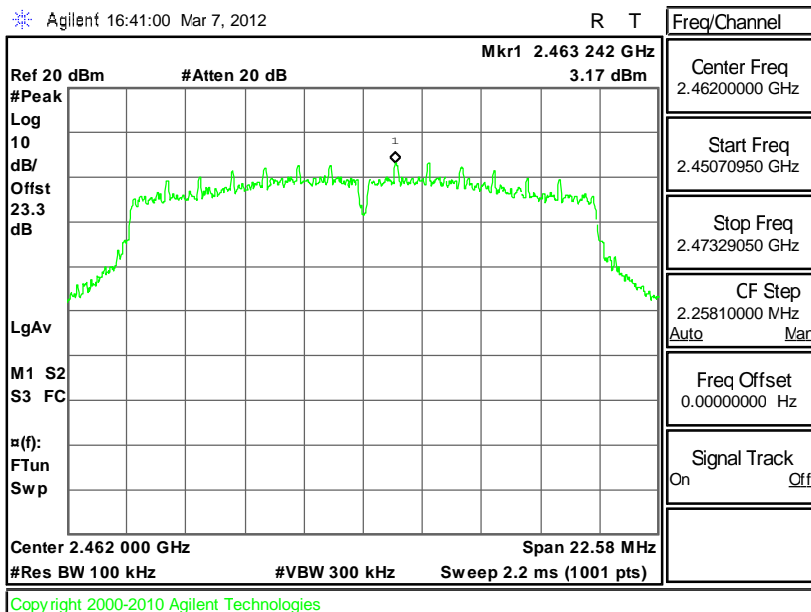


PSD Plot on 2.4G 802.11n (BW 20MHz) Channel 06

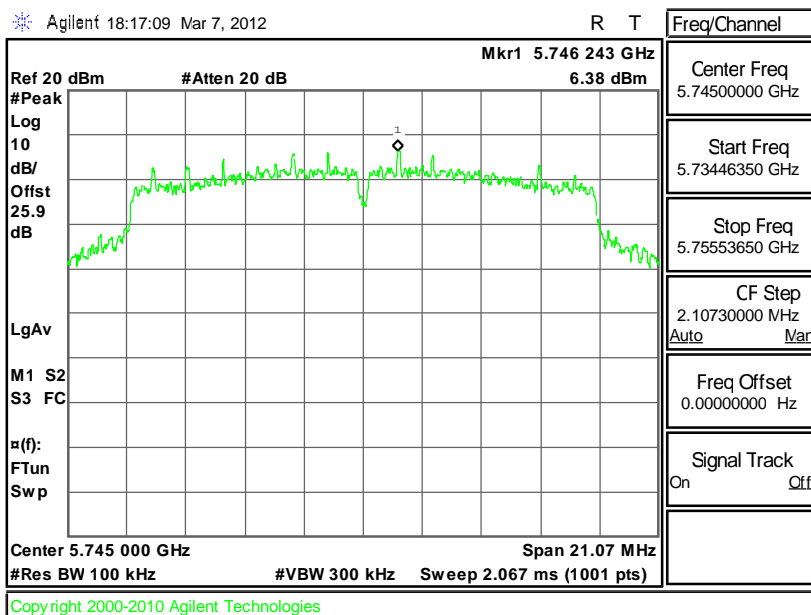


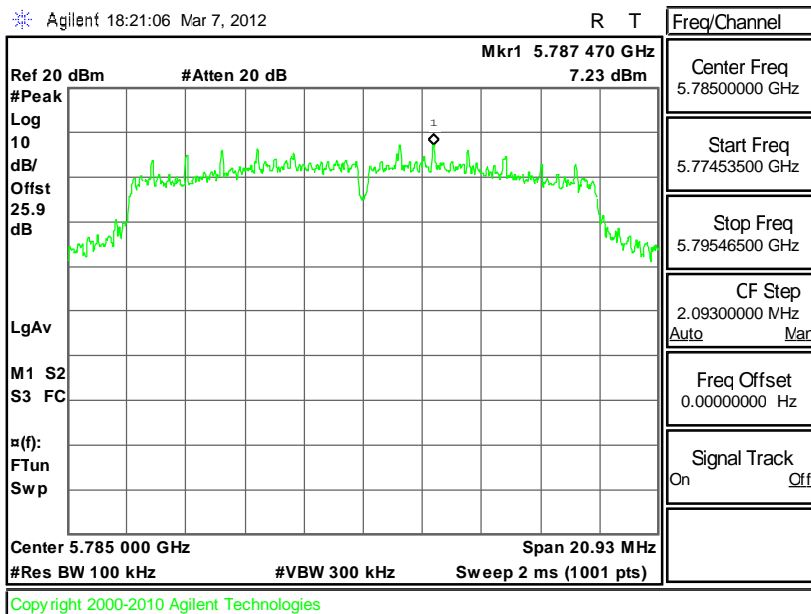
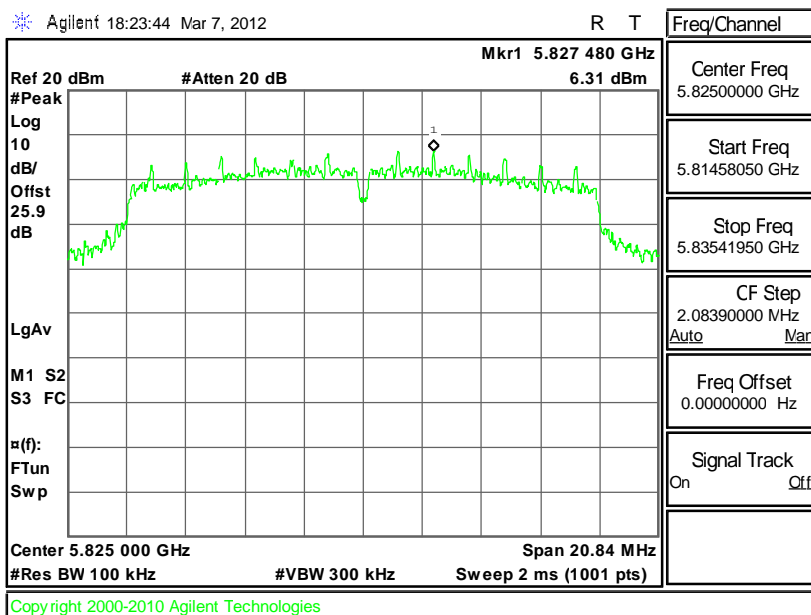


PSD Plot on 2.4G 802.11n (BW 20MHz) Channel 11



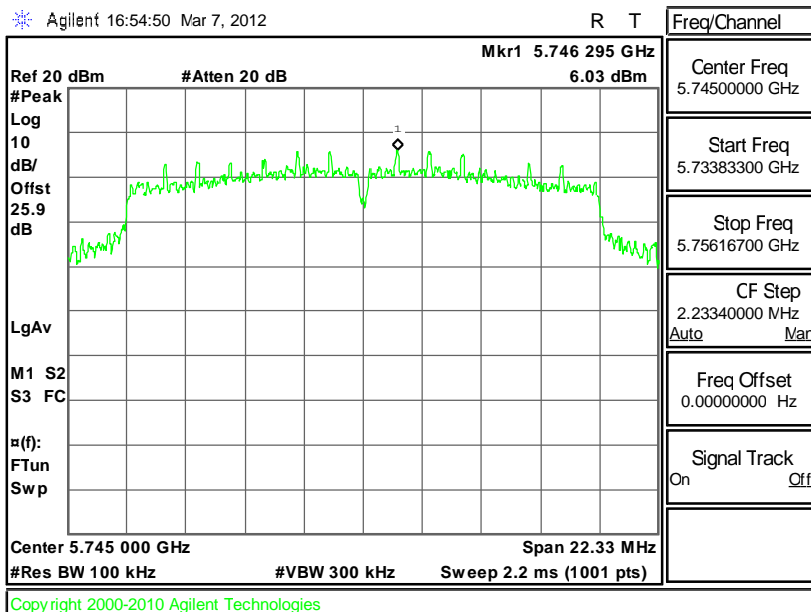
PSD Plot on 802.11a Channel 149



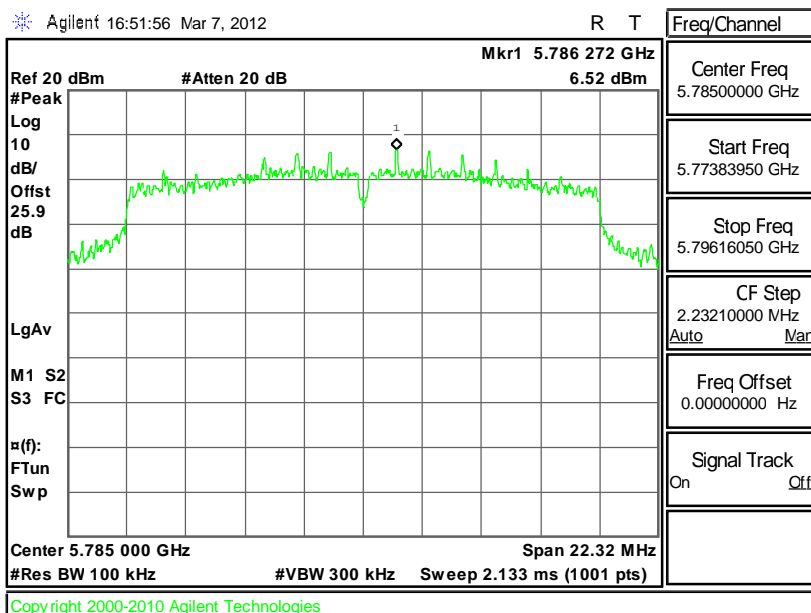
**PSD Plot on 802.11a Channel 157****PSD Plot on 802.11a Channel 165**



PSD Plot on 5G 802.11n (BW 20MHz) Channel 149

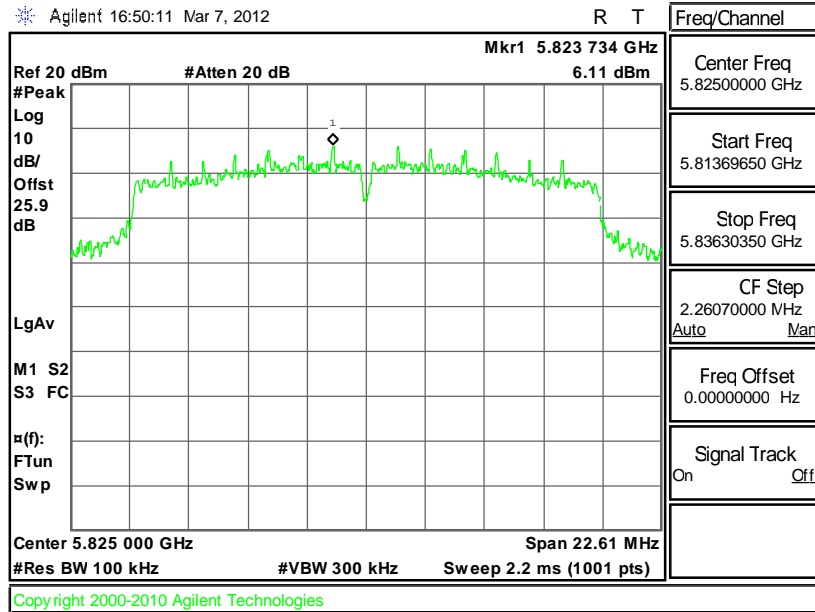


PSD Plot on 5G 802.11n (BW 20MHz) Channel 157





PSD Plot on 5G 802.11n (BW 20MHz) Channel 165



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).

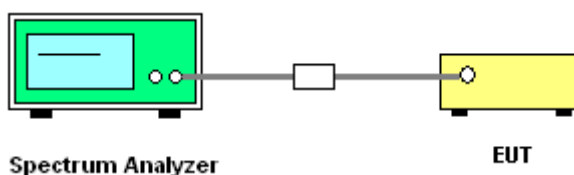
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The testing follows the guidelines in the Measurement Procedure of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.
2. 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. The attenuation is set to 30dB, when maximum conducted output power procedure is used.

3.4.4 Test Setup

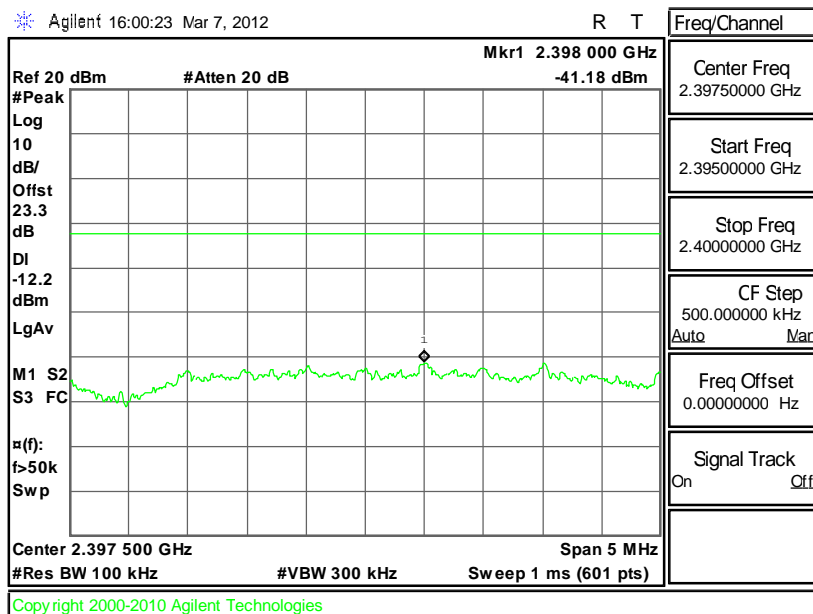




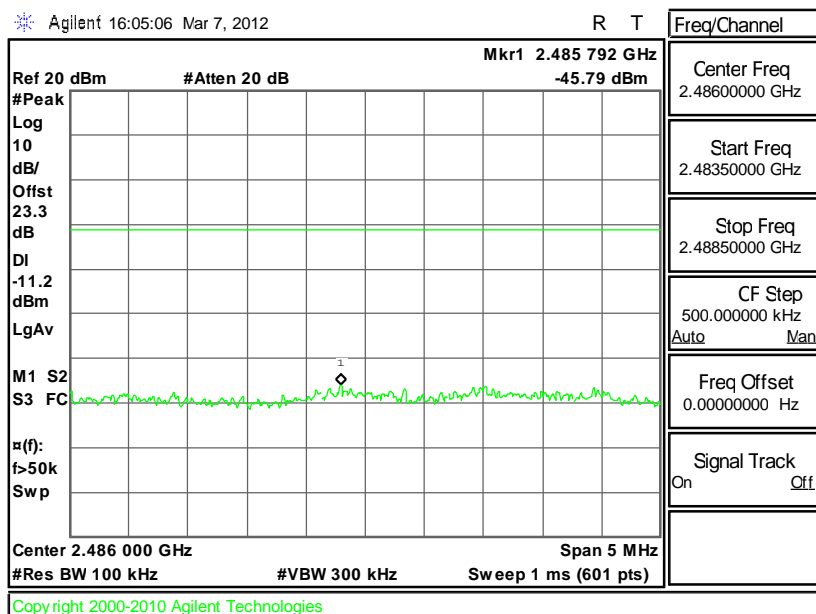
3.4.6 Test Result of Conducted Spurious at Band Edges

| | | | |
|----------------|--------------|---------------------|-------------|
| Test Mode : | 802.11b | Temperature : | 24~26°C |
| Test Band : | Low and High | Relative Humidity : | 50~53% |
| Test Channel : | 01 and 11 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11b Channel 01

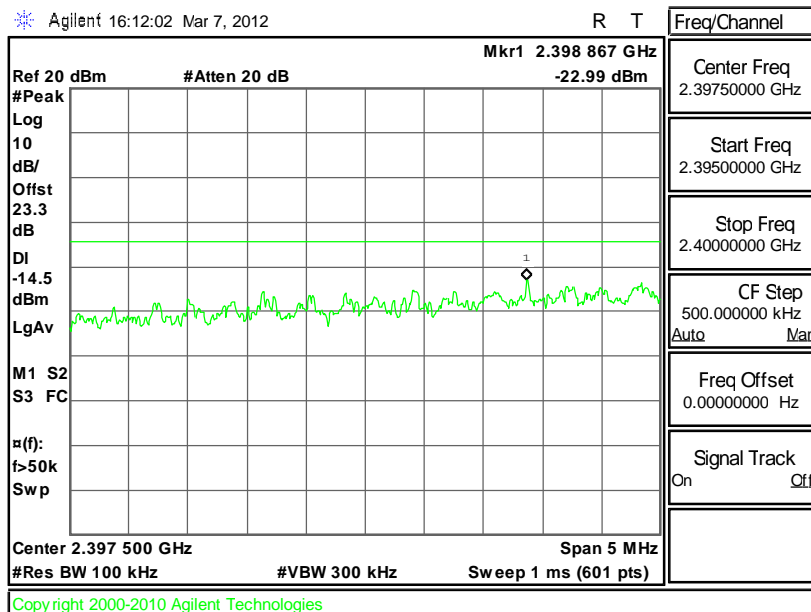
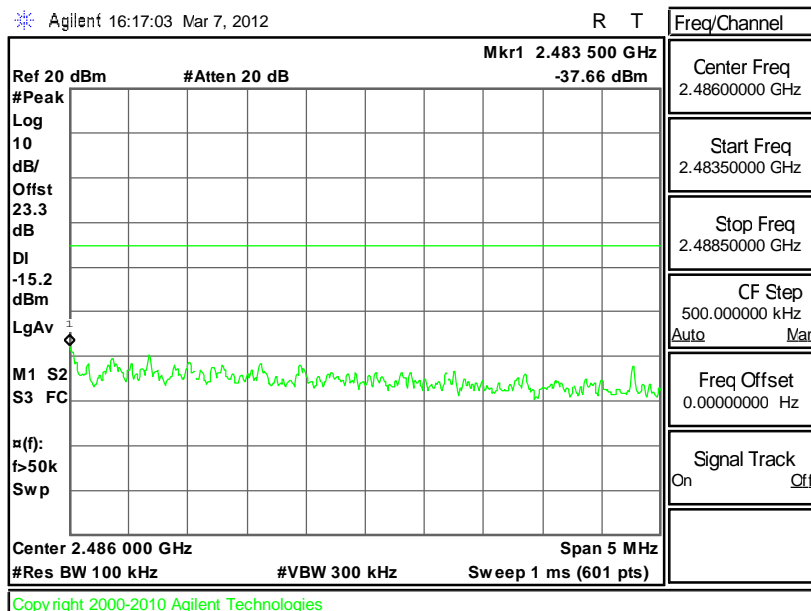


High Band Edge Plot on 802.11b Channel 11



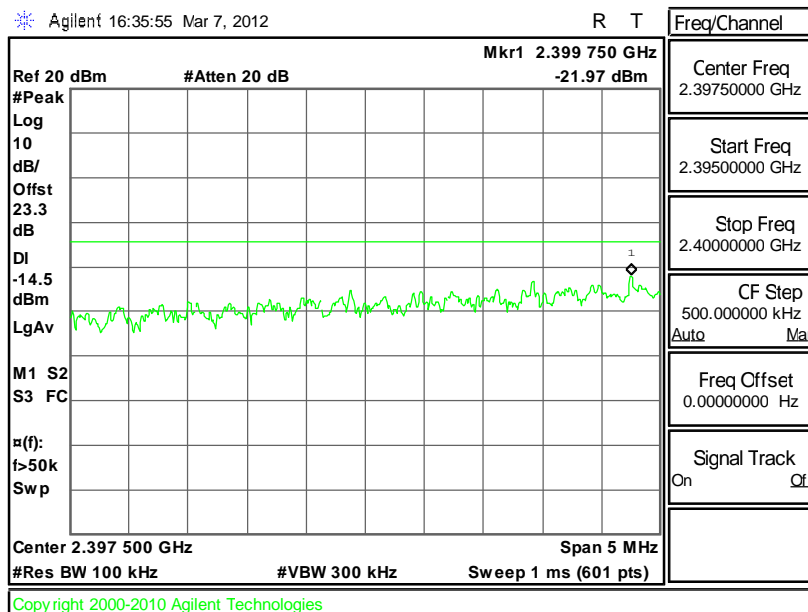
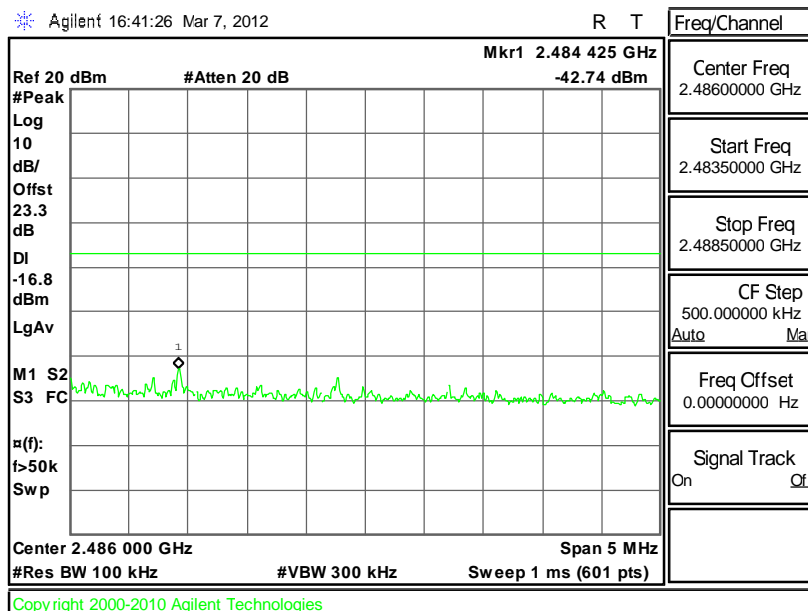


| | | | |
|----------------|--------------|---------------------|-------------|
| Test Mode : | 802.11g | Temperature : | 24~26°C |
| Test Band : | Low and High | Relative Humidity : | 50~53% |
| Test Channel : | 01 and 11 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11g Channel 01**High Band Edge Plot on 802.11g Channel 11**

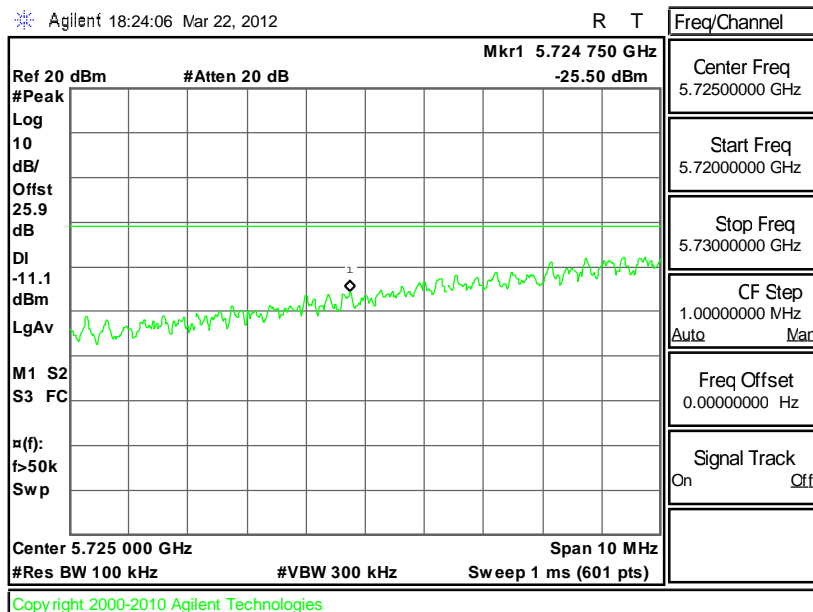
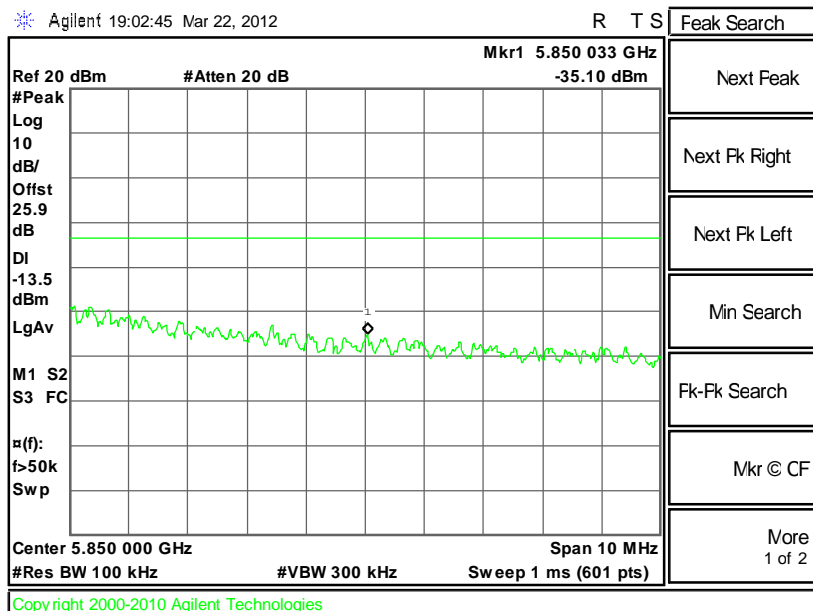


| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Band : | Low and High | Relative Humidity : | 50~53% |
| Test Channel : | 01 and 11 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 2.4G 802.11n (BW 20MHz) Channel 01**High Band Edge Plot on 2.4G 802.11n (BW 20MHz) Channel 11**

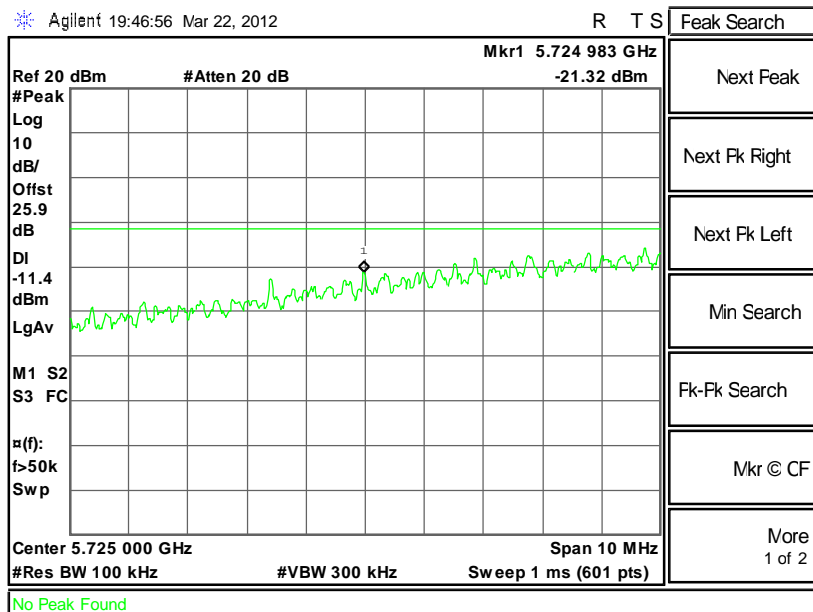
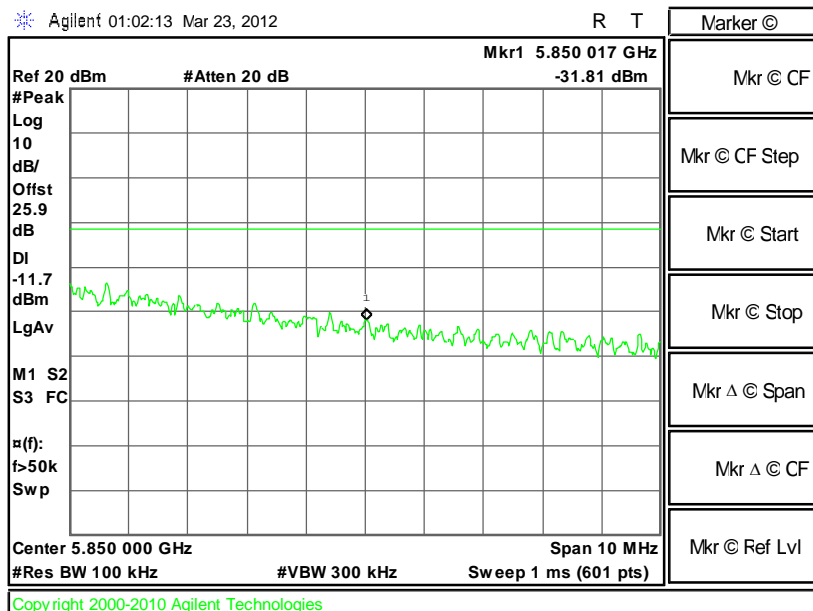


| | | | |
|----------------|--------------|---------------------|-------------|
| Test Mode : | 802.11a | Temperature : | 24~26°C |
| Test Band : | Low and High | Relative Humidity : | 50~53% |
| Test Channel : | 149 and 165 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11a Channel 149**High Band Edge Plot on 802.11a Channel 165**



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Band : | Low and High | Relative Humidity : | 50~53% |
| Test Channel : | 149 and 165 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 5G 802.11n (BW 20MHz) Channel 149**High Band Edge Plot on 5G 802.11n (BW 20MHz) Channel 165**

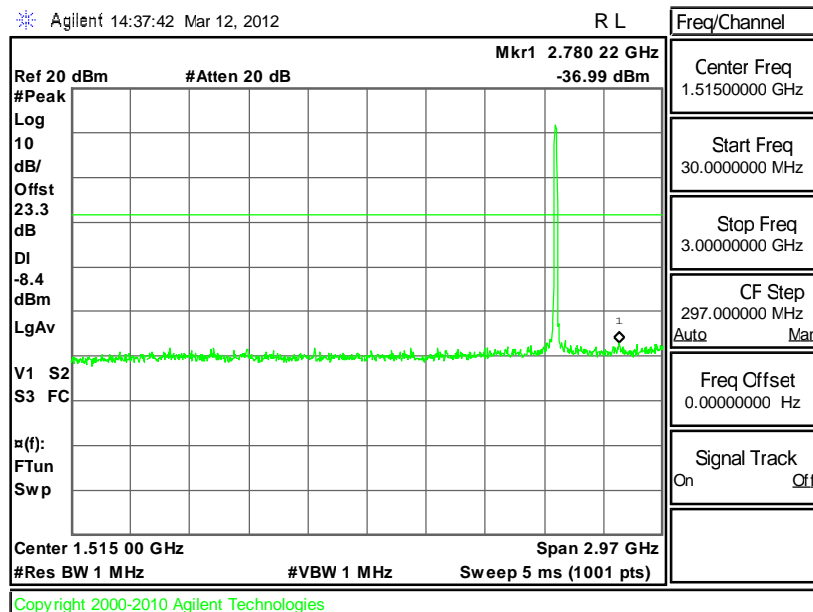


3.4.7 Test Result of Conducted Spurious Emission

| | | | |
|----------------|-------------------------|---------------------|-------------|
| Test Mode : | 802.11b | Temperature : | 24~26°C |
| Test Band : | 30MHz-3GHz and 3G-25GHz | Relative Humidity : | 50~53% |
| Test Channel : | 01, 06, 11 | Test Engineer : | Pinkston Tu |

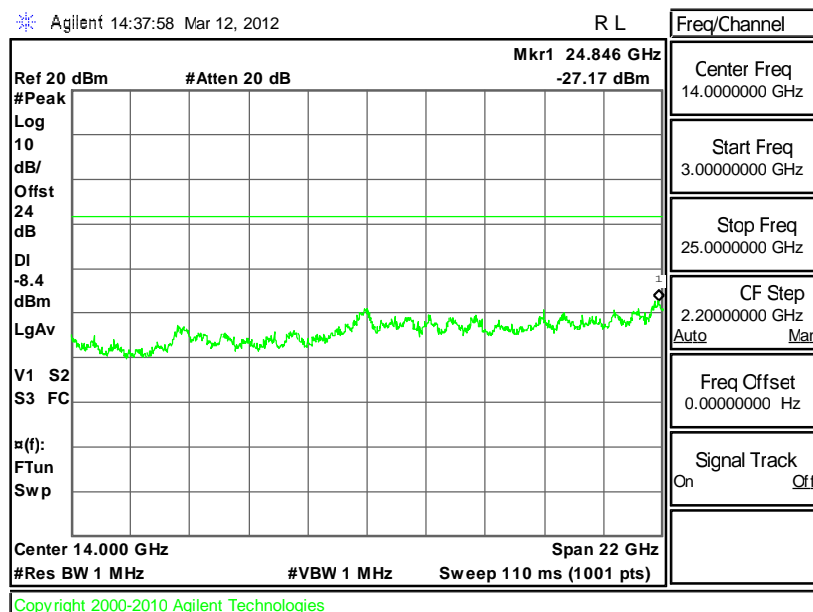
802.11b 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01



802.11b 3 GHz~25 GHz

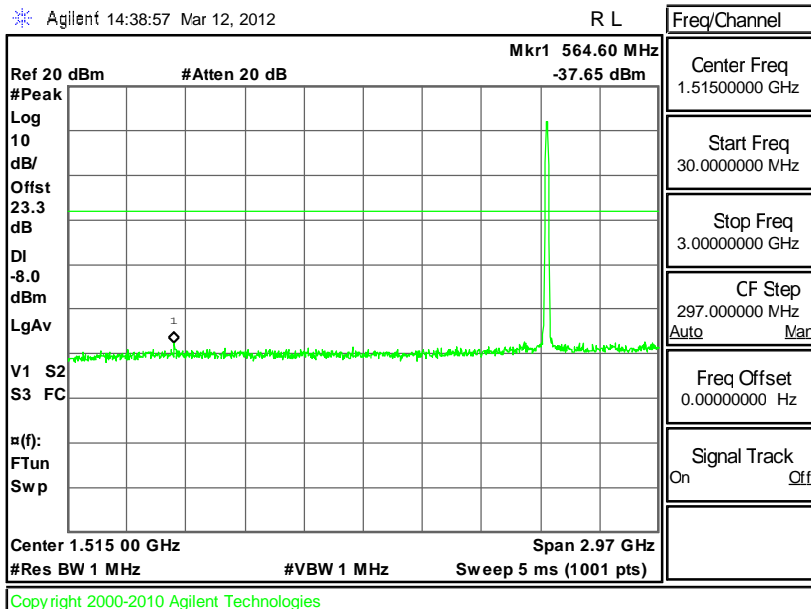
Conducted Spurious Emission Plot on Channel 01





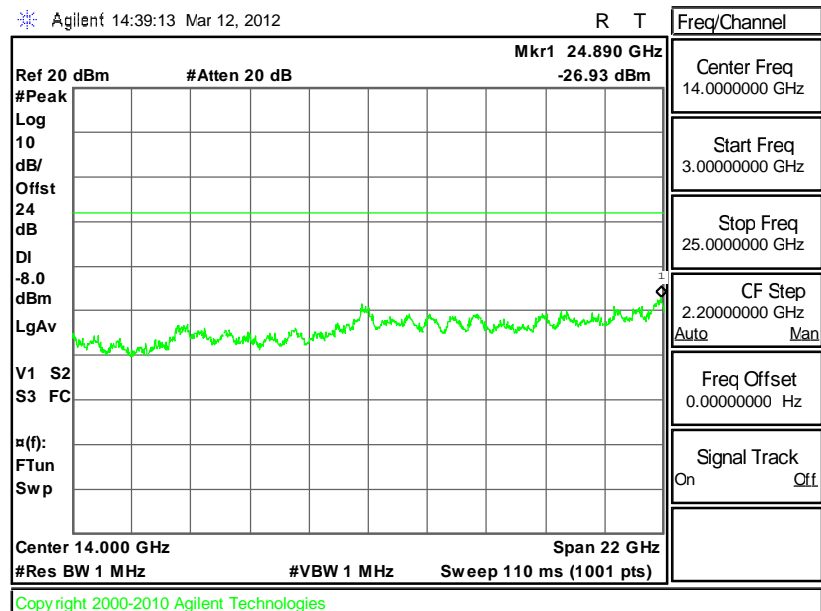
802.11b 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 06



802.11b 3 GHz~25 GHz

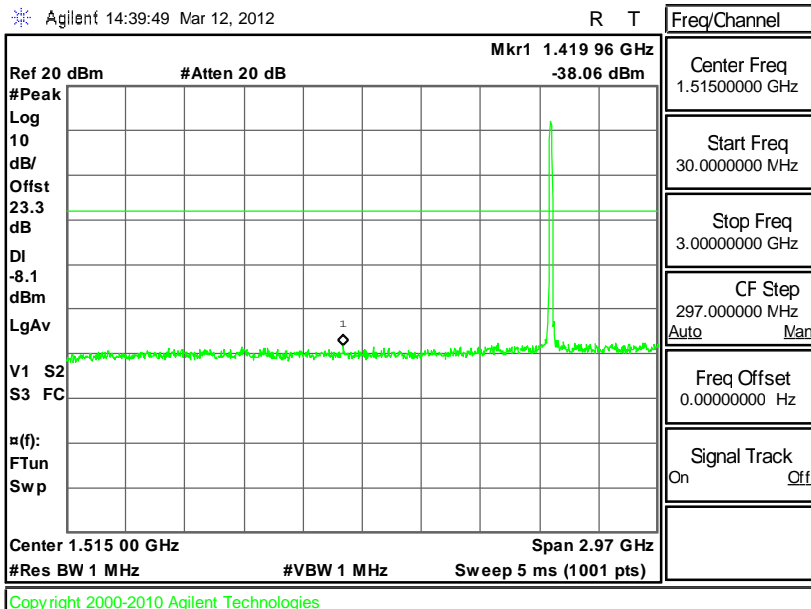
Conducted Spurious Emission Plot on Channel 06





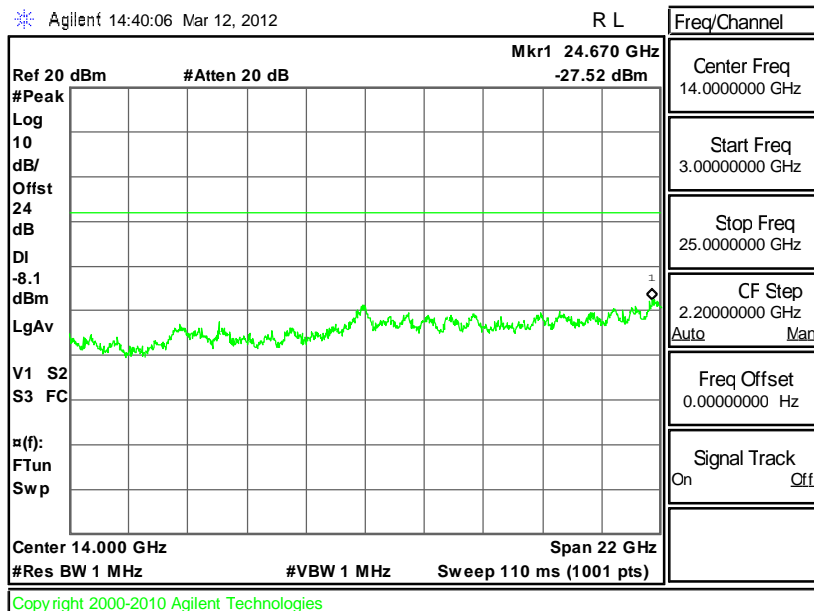
802.11b 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 11



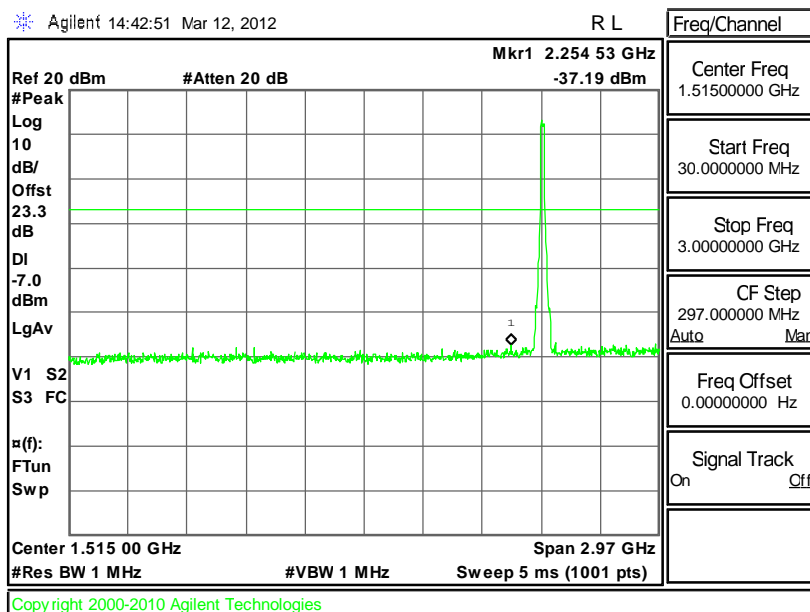
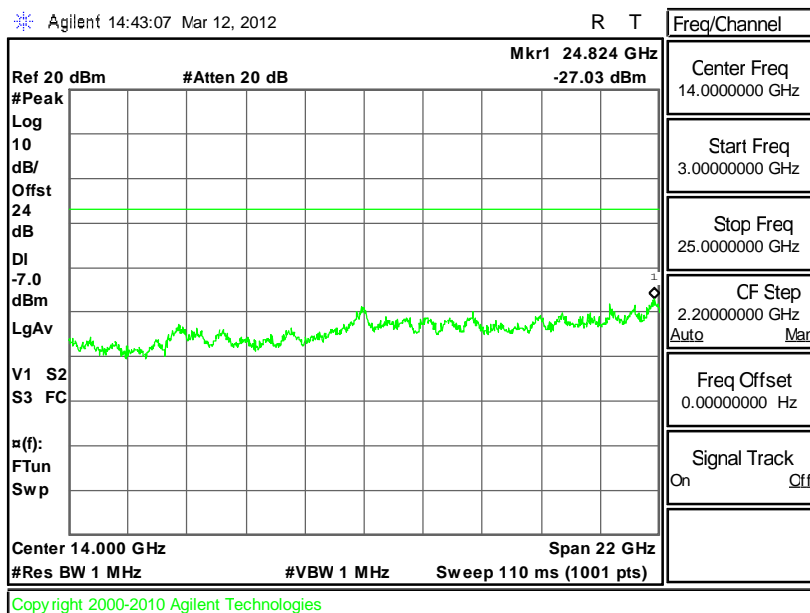
802.11b 3 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11





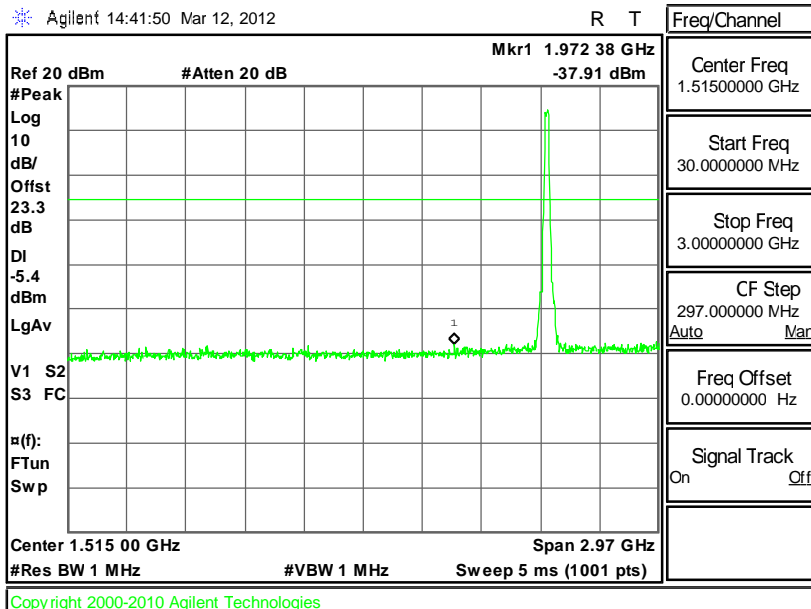
| | | | |
|----------------|-------------------------|---------------------|-------------|
| Test Mode : | 802.11g | Temperature : | 24~26°C |
| Test Band : | 30MHz-3GHz and 3G-25GHz | Relative Humidity : | 50~53% |
| Test Channel : | 01, 06, 11 | Test Engineer : | Pinkston Tu |

802.11g 30 MHz~3 GHz**Conducted Spurious Emission Plot on Channel 01****802.11g 3 GHz~25 GHz****Conducted Spurious Emission Plot on Channel 01**



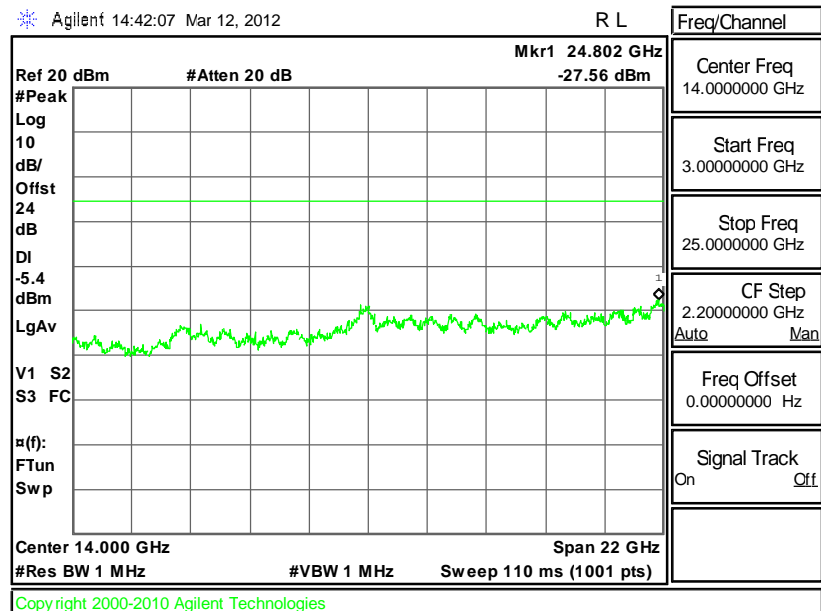
802.11g 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 06



802.11g 3 GHz~25 GHz

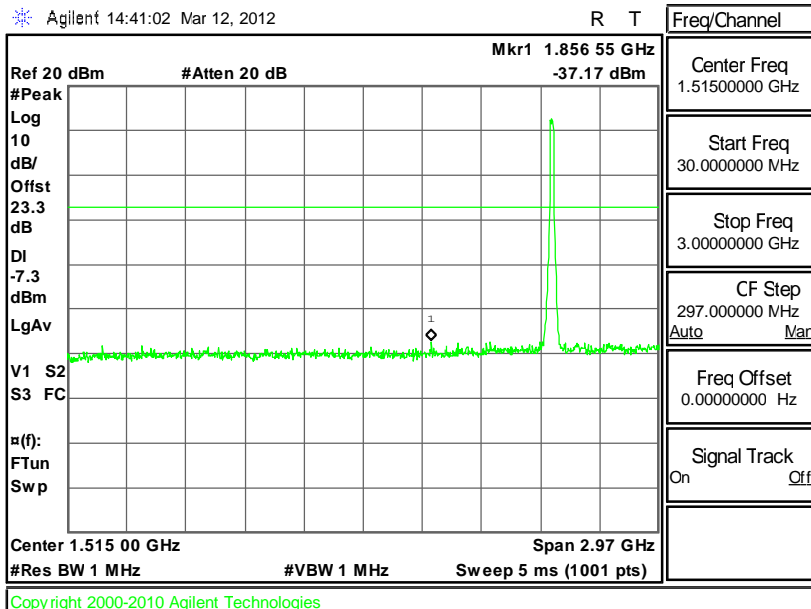
Conducted Spurious Emission Plot on Channel 06





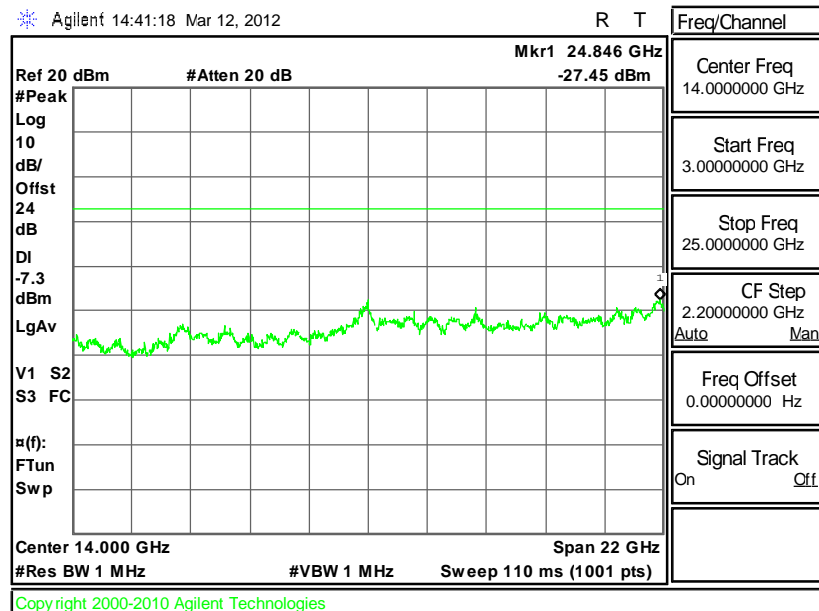
802.11g 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 11



802.11g 3 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11

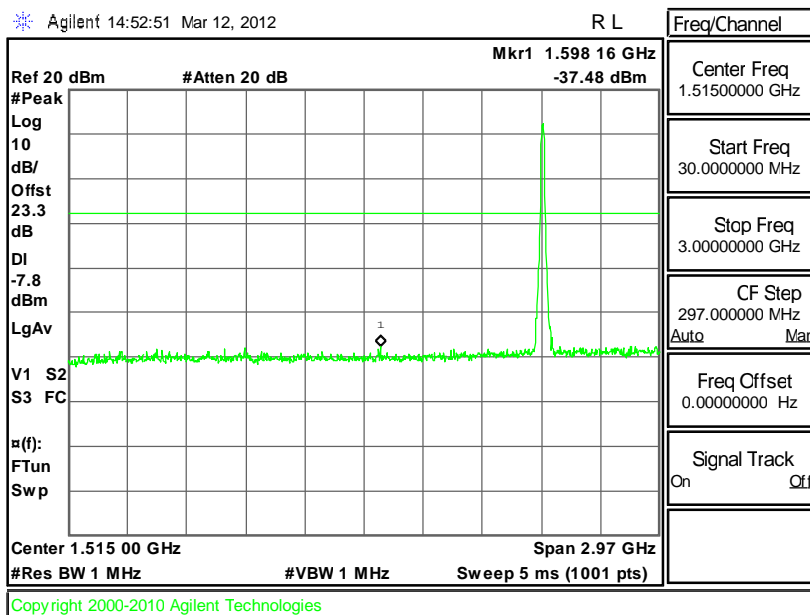




| | | | |
|----------------|-------------------------|---------------------|-------------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Band : | 30MHz-3GHz and 3G-25GHz | Relative Humidity : | 50~53% |
| Test Channel : | 01, 06, 11 | Test Engineer : | Pinkston Tu |

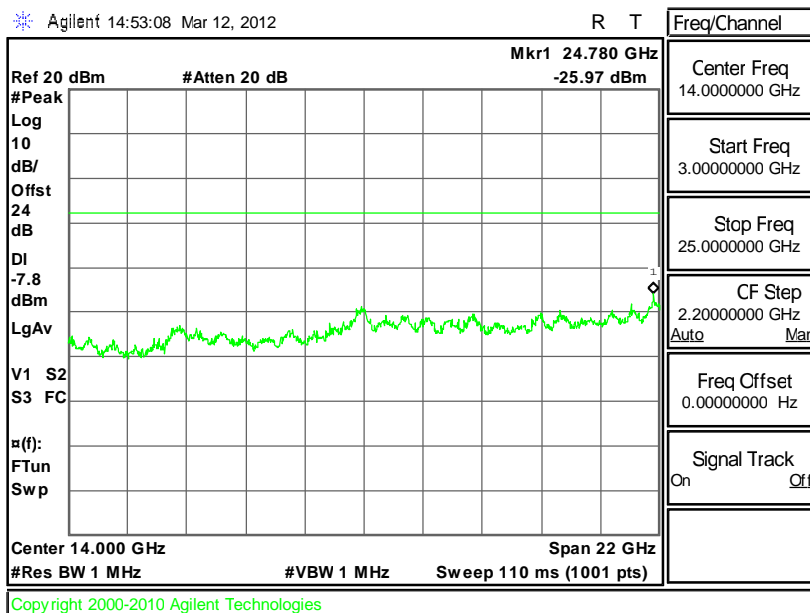
2.4G 802.11n (BW 20MHz) 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01



2.4G 802.11n (BW 20MHz) 3 GHz~25 GHz

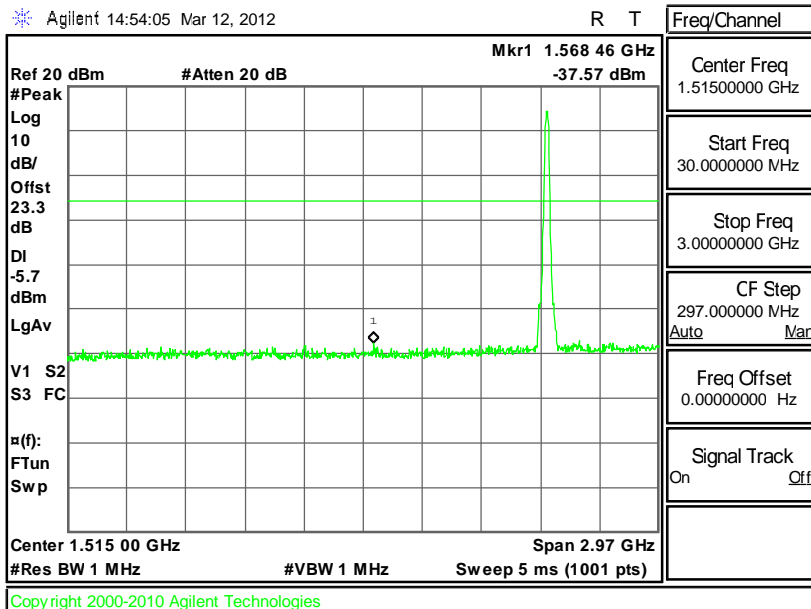
Conducted Spurious Emission Plot on Channel 01





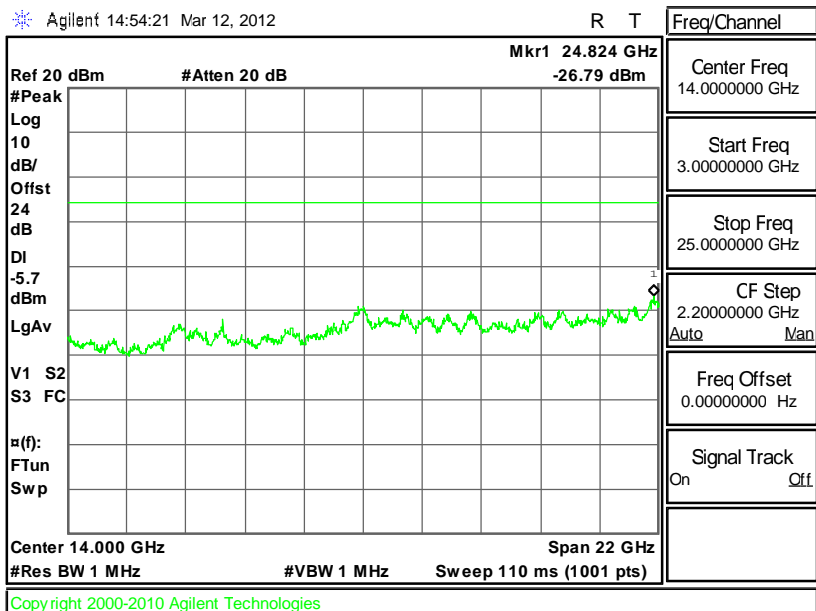
2.4G 802.11n (BW 20MHz) 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 06



2.4G 802.11n (BW 20MHz) 3 GHz~25 GHz

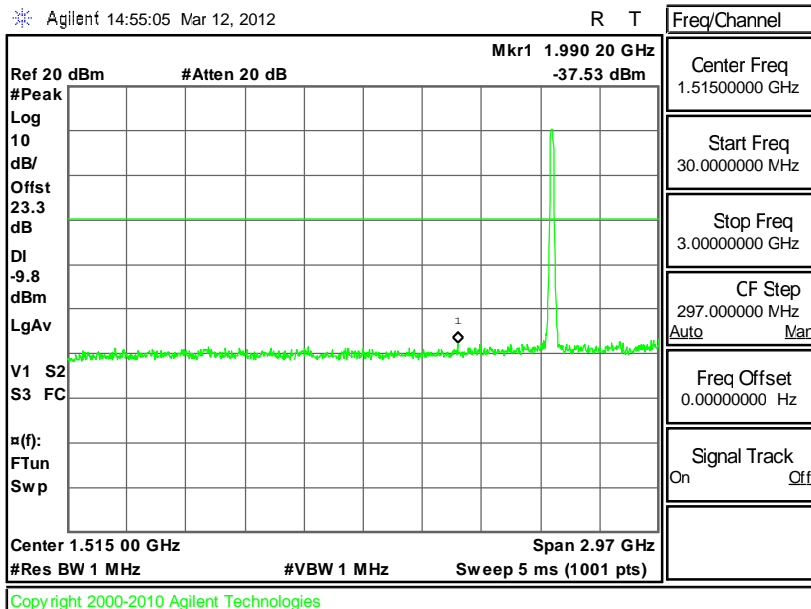
Conducted Spurious Emission Plot on Channel 06





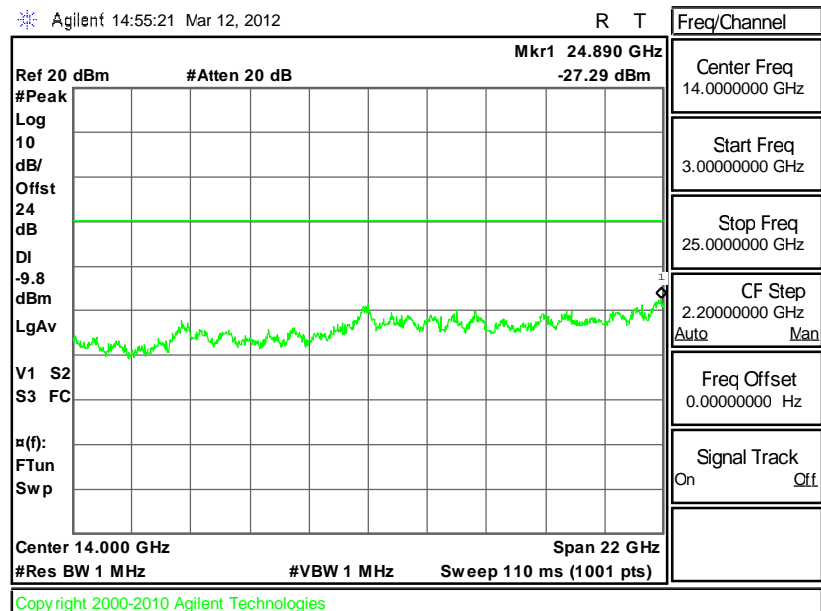
2.4G 802.11n (BW 20MHz) 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 11



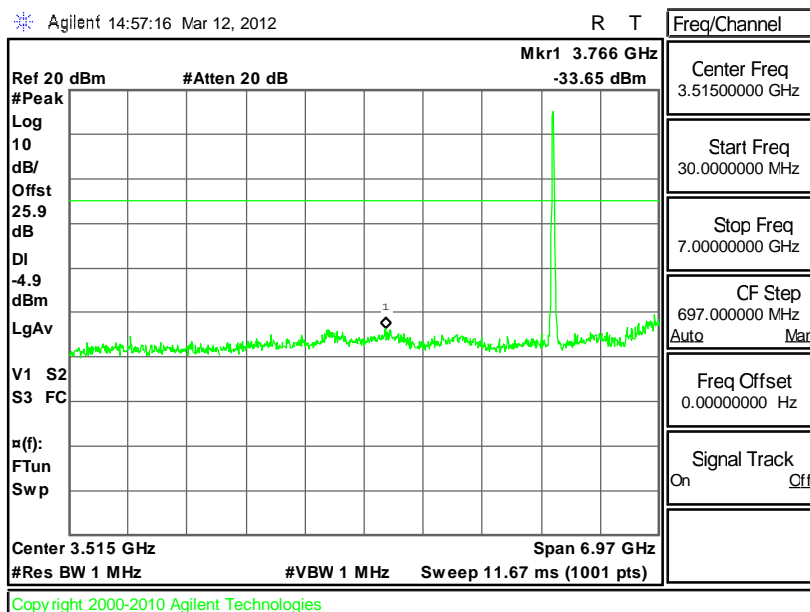
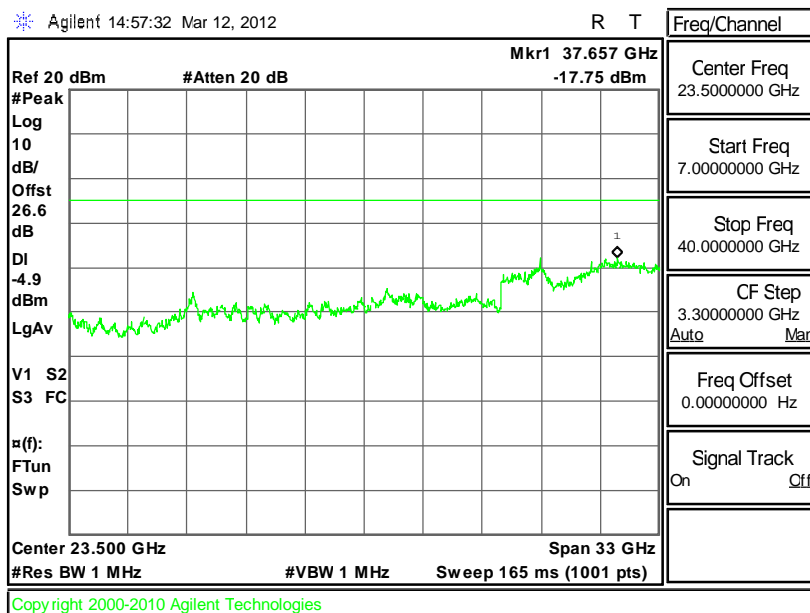
2.4G 802.11n (BW 20MHz) 3 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 11





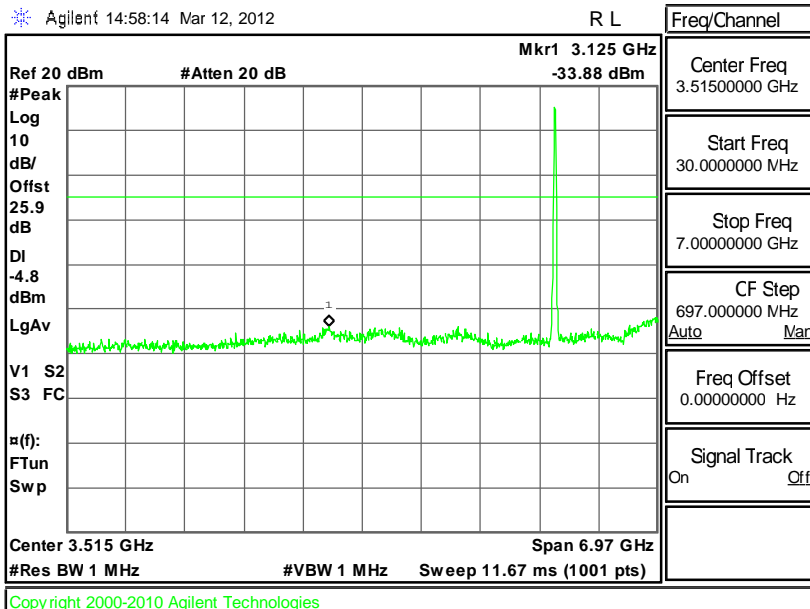
| | | | |
|----------------|-------------------------|---------------------|-------------|
| Test Mode : | 802.11a | Temperature : | 24~26°C |
| Test Band : | 30MHz-7GHz and 7G-40GHz | Relative Humidity : | 50~53% |
| Test Channel : | 149, 157, 165 | Test Engineer : | Pinkston Tu |

802.11a 30 MHz~7 GHz**Conducted Spurious Emission Plot on Channel 149****802.11a 7 GHz~40 GHz****Conducted Spurious Emission Plot on Channel 149**



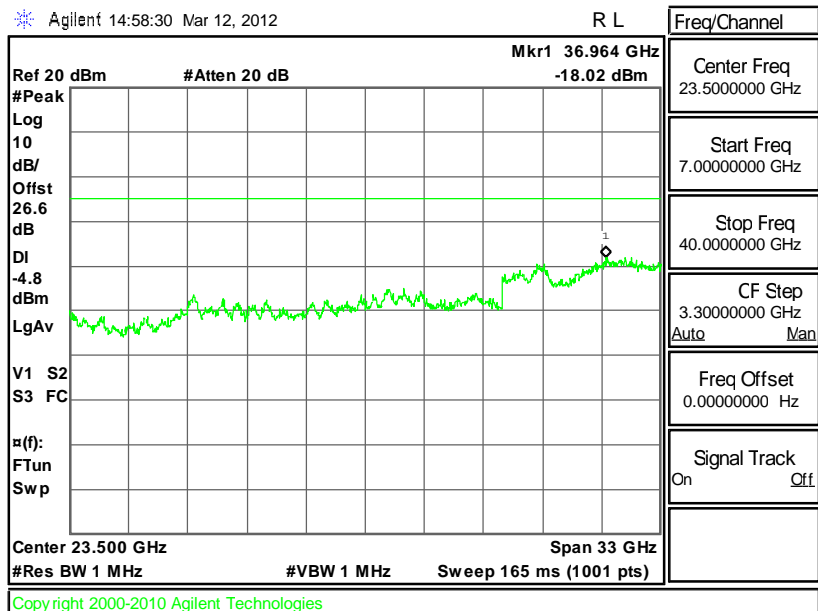
802.11a 30 MHz~7 GHz

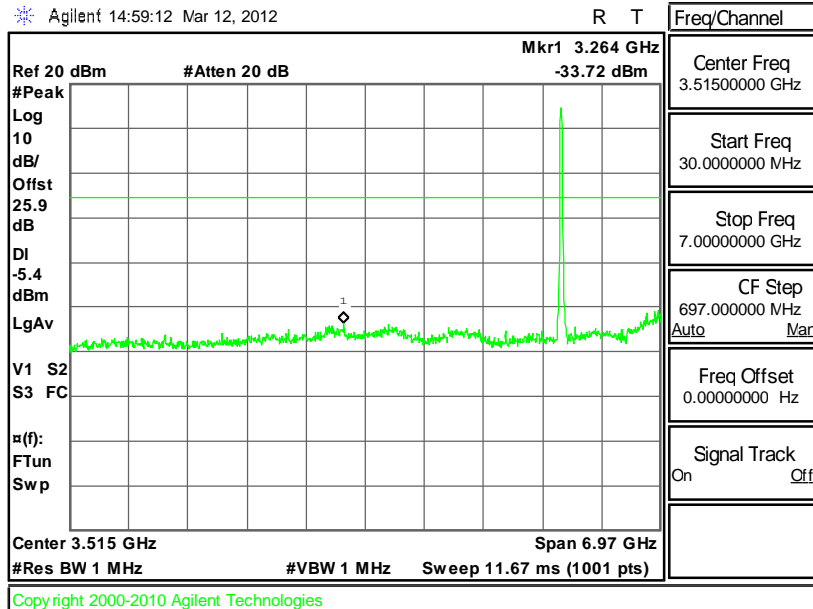
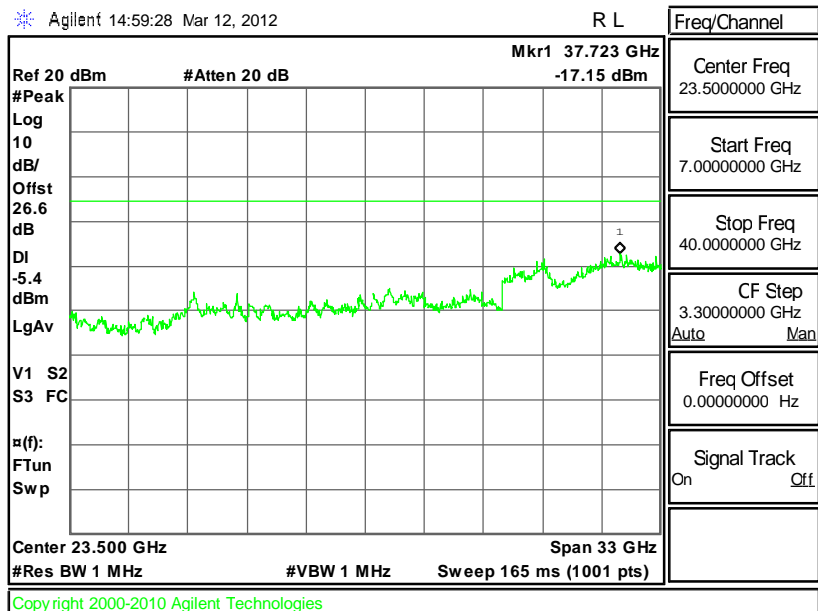
Conducted Spurious Emission Plot on Channel 157



802.11a 7 GHz~40 GHz

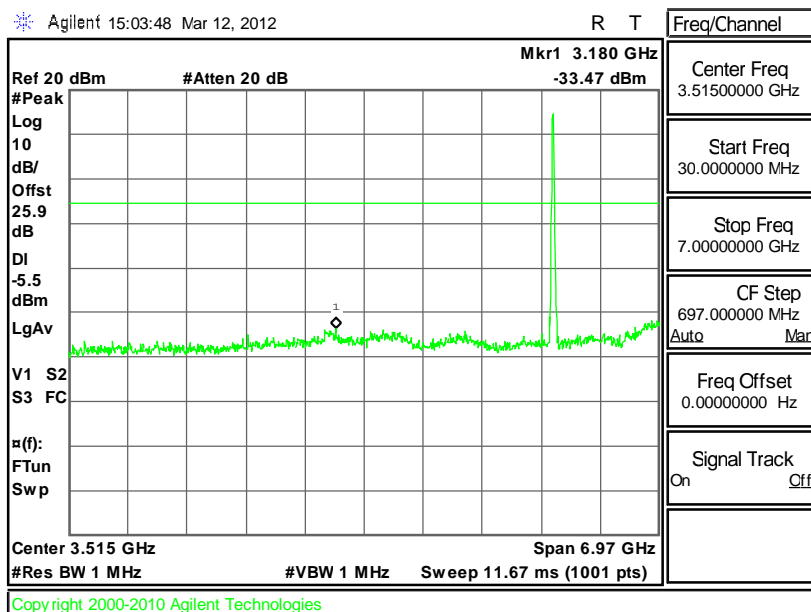
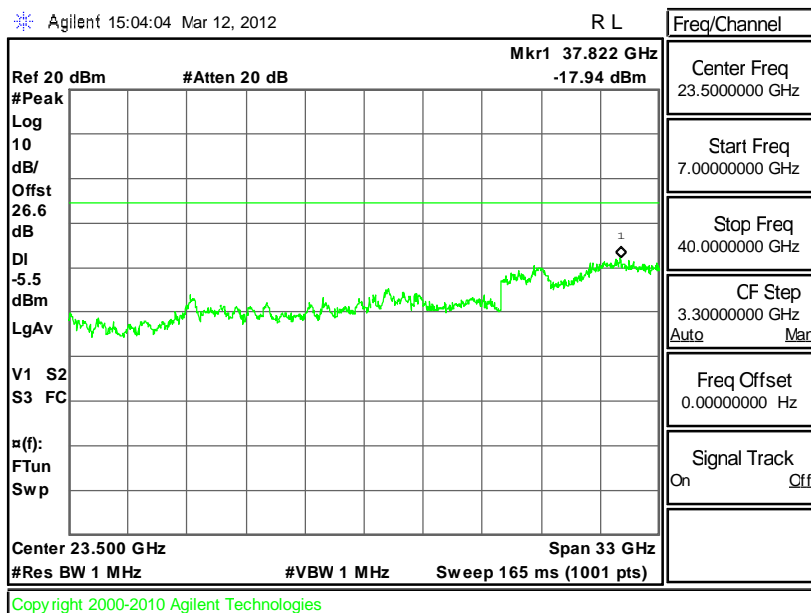
Conducted Spurious Emission Plot on Channel 157



**802.11a 30 MHz~7 GHz****Conducted Spurious Emission Plot on Channel 165****802.11a 7 GHz~40 GHz****Conducted Spurious Emission Plot on Channel 165**



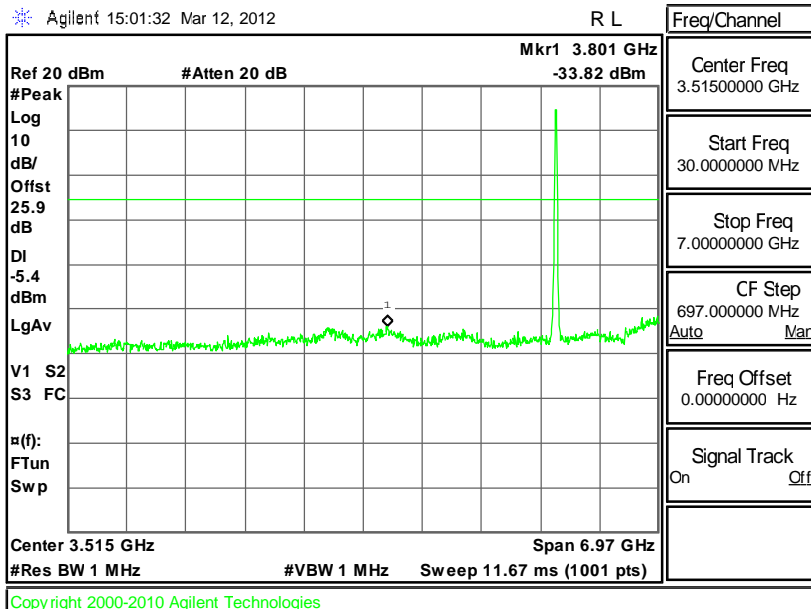
| | | | |
|----------------|-------------------------|---------------------|-------------|
| Test Mode : | 802.11n (BW 20MHz) | Temperature : | 24~26°C |
| Test Band : | 30MHz-7GHz and 7G-40GHz | Relative Humidity : | 50~53% |
| Test Channel : | 149, 157, 165 | Test Engineer : | Pinkston Tu |

5G 802.11n (BW 20MHz) 30 MHz~7 GHz**Conducted Spurious Emission Plot on Channel 149****5G 802.11n (BW 20MHz) 7 GHz~40 GHz****Conducted Spurious Emission Plot on Channel 149**



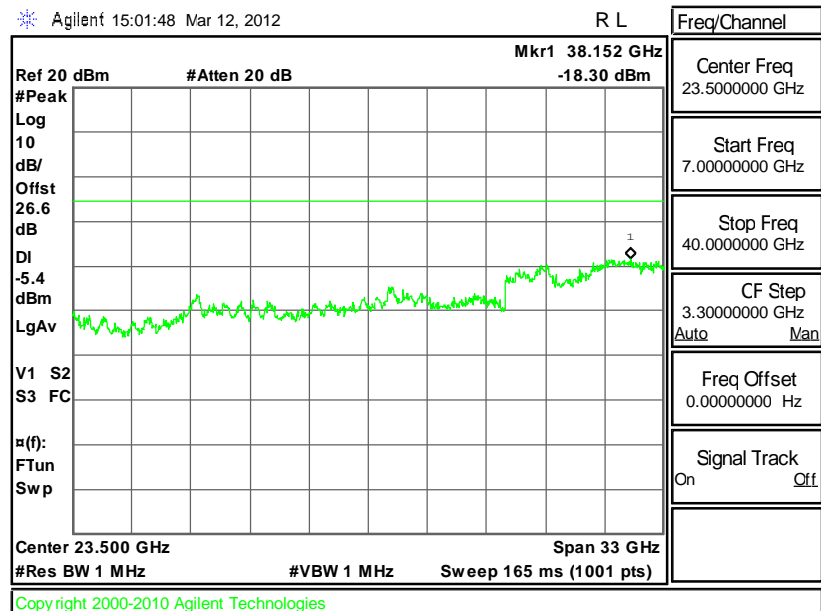
5G 802.11n (BW 20MHz) 30 MHz~7 GHz

Conducted Spurious Emission Plot on Channel 157



5G 802.11n (BW 20MHz) 7 GHz~40 GHz

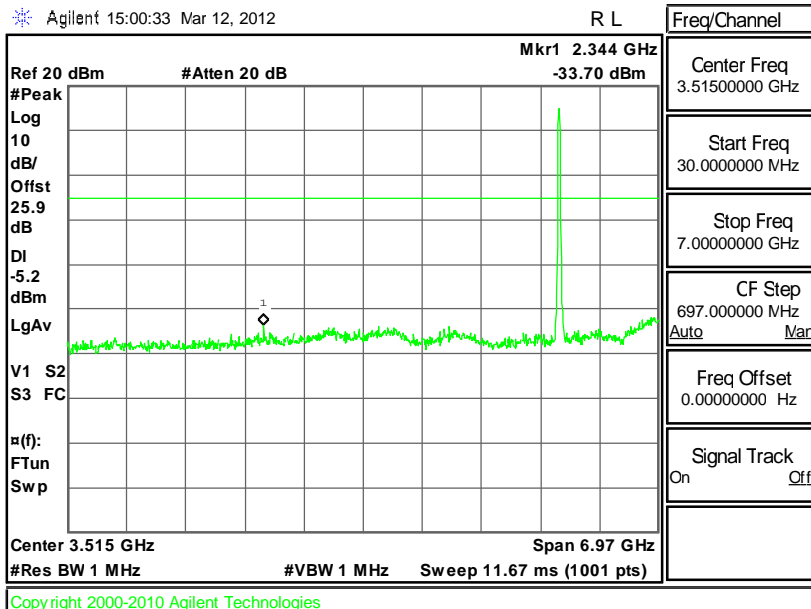
Conducted Spurious Emission Plot on Channel 157





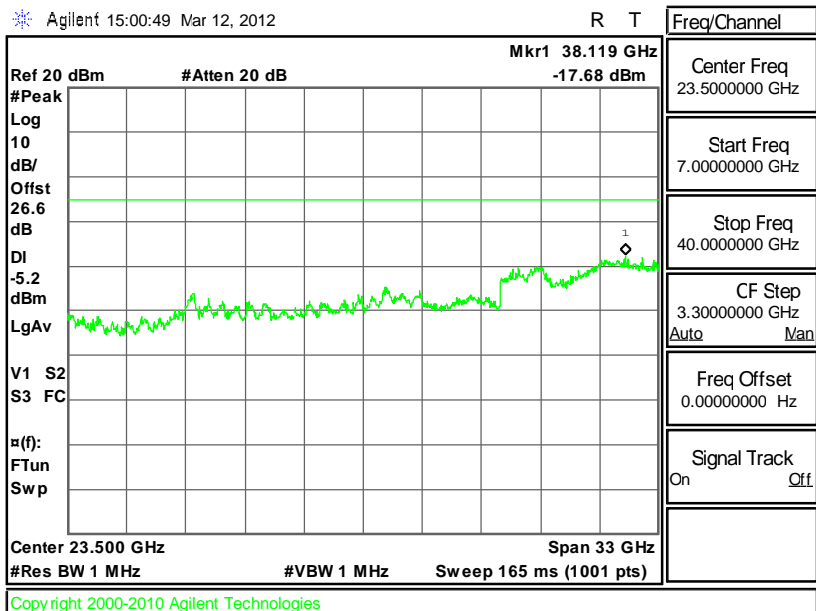
5G 802.11n (BW 20MHz) 30 MHz~7 GHz

Conducted Spurious Emission Plot on Channel 165



5G 802.11n (BW 20MHz) 7 GHz~40 GHz

Conducted Spurious Emission Plot on Channel 165



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

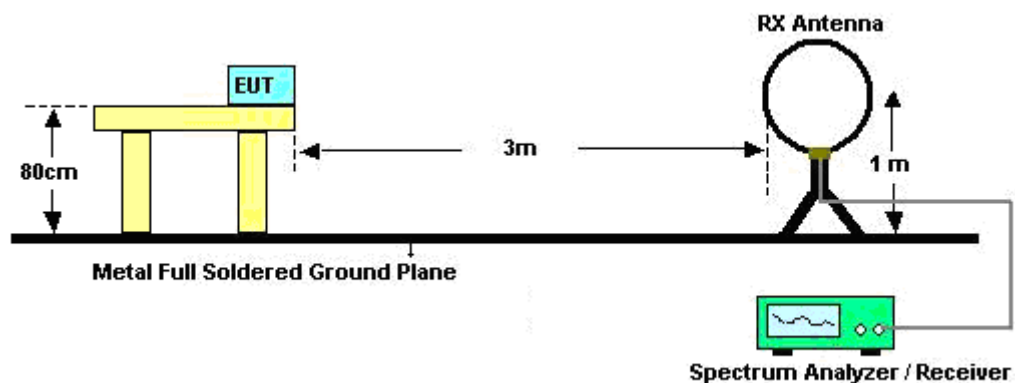
See list of measuring instruments of this test report.

3.5.3 Test Procedures

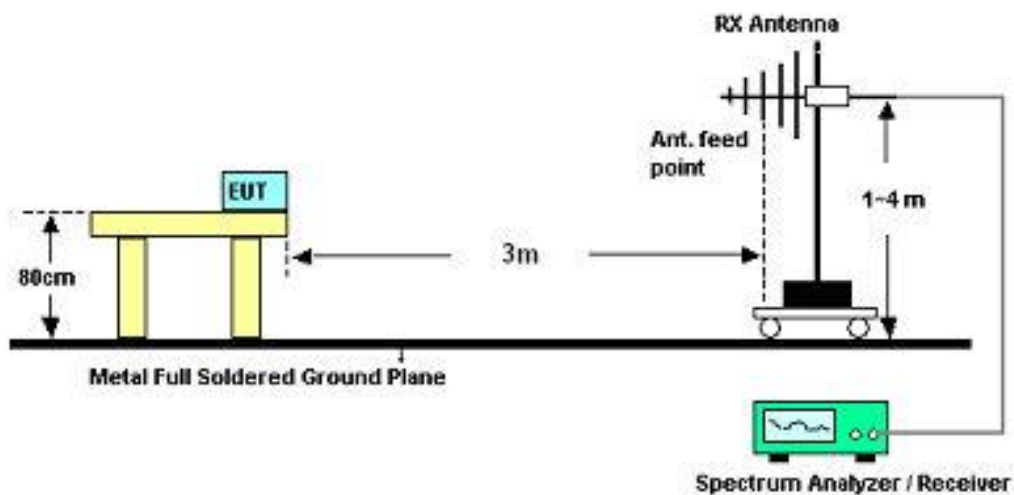
1. The testing follows TCB Workshop 2012, April and fulfills ANSI C63.4-2003 test site requirement. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
2. The EUT was placed on a turntable with 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving Antenna, which was mounted on the top of a variable height Antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest radiation.
5. 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, and then set VBW=10Hz, while maintaining all of the other instrument settings for Average measurement.
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. If the emission level of the EUT measured by the peak detector is more than 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.

3.5.4 Test Setup

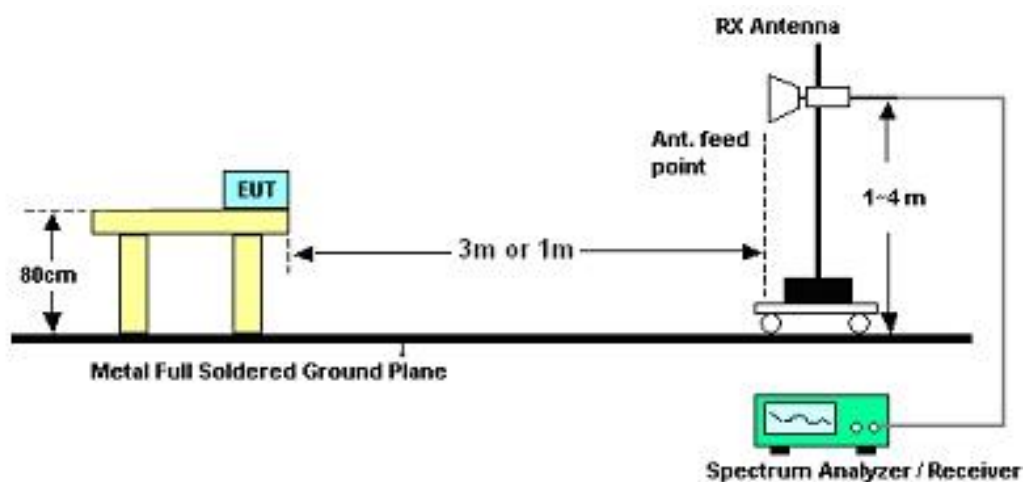
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated 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 Band Edges

<Qwerty Keypad with Camera>

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 1 | Temperature : | 24~25°C |
| Test Band : | 802.11b | Relative Humidity : | 42~43% |
| Test Channel : | 01 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2385.81 | 51.96 | -22.04 | 74 | 47.83 | 32.06 | 6.03 | 33.96 | 100 | 270 | Peak |
| 2385.81 | 40.38 | -13.62 | 54 | 36.25 | 32.06 | 6.03 | 33.96 | 100 | 270 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2388.85 | 49.86 | -24.14 | 74 | 45.73 | 32.06 | 6.03 | 33.96 | 100 | 61 | Peak |
| 2388.85 | 37.1 | -16.9 | 54 | 32.97 | 32.06 | 6.03 | 33.96 | 100 | 61 | Average |

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 24~25°C |
| Test Band : | 802.11b | Relative Humidity : | 42~43% |
| Test Channel : | 11 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2491.61 | 51.61 | -22.39 | 74 | 47.23 | 32.2 | 6.18 | 34 | 166 | 214 | Peak |
| 2491.61 | 40.81 | -13.19 | 54 | 36.43 | 32.2 | 6.18 | 34 | 166 | 214 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2491.26 | 49.1 | -24.9 | 74 | 44.72 | 32.2 | 6.18 | 34 | 100 | 272 | Peak |
| 2491.26 | 37.56 | -16.44 | 54 | 33.18 | 32.2 | 6.18 | 34 | 100 | 272 | Average |



| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 4 | Temperature : | 24~25°C |
| Test Band : | 802.11b | Relative Humidity : | 42~43% |
| Test Channel : | 12 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 53.56 | -20.44 | 74 | 49.2 | 32.18 | 6.18 | 34 | 112 | 28 | Peak |
| 2483.5 | 44.37 | -9.63 | 54 | 40.01 | 32.18 | 6.18 | 34 | 112 | 28 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 52.58 | -21.42 | 74 | 48.22 | 32.18 | 6.18 | 34 | 100 | 65 | Peak |
| 2483.66 | 43.23 | -10.77 | 54 | 38.87 | 32.18 | 6.18 | 34 | 100 | 65 | Average |

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 5 | Temperature : | 24~25°C |
| Test Band : | 802.11b | Relative Humidity : | 42~43% |
| Test Channel : | 13 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 50.97 | -23.03 | 74 | 46.61 | 32.18 | 6.18 | 34 | 197 | 352 | Peak |
| 2483.5 | 43.03 | -10.97 | 54 | 38.67 | 32.18 | 6.18 | 34 | 197 | 352 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2486.7 | 51.18 | -22.82 | 74 | 46.82 | 32.18 | 6.18 | 34 | 100 | 61 | Peak |
| 2486.7 | 42.35 | -11.65 | 54 | 37.99 | 32.18 | 6.18 | 34 | 100 | 61 | Average |



| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 6 | Temperature : | 24~25°C |
| Test Band : | 802.11g | Relative Humidity : | 42~43% |
| Test Channel : | 01 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.99 | 72.01 | -1.99 | 74 | 67.88 | 32.06 | 6.03 | 33.96 | 100 | 136 | Peak |
| 2389.99 | 43.7 | -10.3 | 54 | 39.57 | 32.06 | 6.03 | 33.96 | 100 | 136 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.8 | 64.99 | -9.01 | 74 | 60.86 | 32.06 | 6.03 | 33.96 | 128 | 268 | Peak |
| 2389.8 | 39.61 | -14.39 | 54 | 35.48 | 32.06 | 6.03 | 33.96 | 128 | 268 | Average |

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 8 | Temperature : | 24~25°C |
| Test Band : | 802.11g | Relative Humidity : | 42~43% |
| Test Channel : | 11 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 72.9 | -1.1 | 74 | 68.54 | 32.18 | 6.18 | 34 | 100 | 215 | Peak |
| 2483.5 | 50.38 | -3.62 | 54 | 46.02 | 32.18 | 6.18 | 34 | 100 | 215 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.85 | 72.11 | -1.89 | 74 | 67.75 | 32.18 | 6.18 | 34 | 100 | 210 | Peak |
| 2483.85 | 47.14 | -6.86 | 54 | 42.78 | 32.18 | 6.18 | 34 | 100 | 210 | Average |



| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 9 | Temperature : | 24~25°C |
| Test Band : | 802.11g | Relative Humidity : | 42~43% |
| Test Channel : | 12 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 66.49 | -7.51 | 74 | 62.13 | 32.18 | 6.18 | 34 | 199 | 148 | Peak |
| 2483.5 | 45.52 | -8.48 | 54 | 41.16 | 32.18 | 6.18 | 34 | 199 | 148 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 67.71 | -6.29 | 74 | 63.35 | 32.18 | 6.18 | 34 | 100 | 65 | Peak |
| 2483.66 | 47.09 | -6.91 | 54 | 42.73 | 32.18 | 6.18 | 34 | 100 | 65 | Average |

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 10 | Temperature : | 24~25°C |
| Test Band : | 802.11g | Relative Humidity : | 42~43% |
| Test Channel : | 13 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 72.59 | -1.41 | 74 | 68.23 | 32.18 | 6.18 | 34 | 199 | 354 | Peak |
| 2483.5 | 44.14 | -9.86 | 54 | 39.78 | 32.18 | 6.18 | 34 | 199 | 354 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 70.77 | -3.23 | 74 | 66.41 | 32.18 | 6.18 | 34 | 100 | 67 | Peak |
| 2483.66 | 42.75 | -11.25 | 54 | 38.39 | 32.18 | 6.18 | 34 | 100 | 67 | Average |

**<Numeric Keypad with Camera>**

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 11 | Temperature : | 24~25°C |
| Test Band : | 802.11g | Relative Humidity : | 42~43% |
| Test Channel : | 11 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 72 | -2 | 74 | 67.64 | 32.18 | 6.18 | 34 | 110 | 219 | Peak |
| 2483.5 | 50.83 | -3.17 | 54 | 46.47 | 32.18 | 6.18 | 34 | 110 | 219 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.85 | 70.21 | -3.79 | 74 | 65.85 | 32.18 | 6.18 | 34 | 110 | 223 | Peak |
| 2483.85 | 46.24 | -7.76 | 54 | 41.88 | 32.18 | 6.18 | 34 | 110 | 223 | Average |

<PIM Keypad with Camera>

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 12 | Temperature : | 24~25°C |
| Test Band : | 802.11g | Relative Humidity : | 42~43% |
| Test Channel : | 11 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 70.29 | -3.71 | 74 | 65.93 | 32.18 | 6.18 | 34 | 100 | 218 | Peak |
| 2483.66 | 41.08 | -12.92 | 54 | 36.72 | 32.18 | 6.18 | 34 | 100 | 218 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 62.64 | -11.36 | 74 | 58.28 | 32.18 | 6.18 | 34 | 100 | 49 | Peak |
| 2483.5 | 38.69 | -15.31 | 54 | 34.33 | 32.18 | 6.18 | 34 | 100 | 49 | Average |

<Qwerty Keypad without Camera>

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 13 | Temperature : | 24~25°C |
| Test Band : | 802.11g | Relative Humidity : | 42~43% |
| Test Channel : | 11 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 69.17 | -4.83 | 74 | 64.81 | 32.18 | 6.18 | 34 | 121 | 94 | Peak |
| 2483.66 | 45.66 | -8.34 | 54 | 41.3 | 32.18 | 6.18 | 34 | 121 | 94 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.85 | 66.59 | -7.41 | 74 | 62.23 | 32.18 | 6.18 | 34 | 100 | 70 | Peak |
| 2483.85 | 42.9 | -11.1 | 54 | 38.54 | 32.18 | 6.18 | 34 | 100 | 70 | Average |

**<Qwerty Keypad with Camera>**

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 14 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 01 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.99 | 71.8 | -2.2 | 74 | 67.67 | 32.06 | 6.03 | 33.96 | 100 | 270 | Peak |
| 2389.99 | 48.89 | -5.11 | 54 | 44.76 | 32.06 | 6.03 | 33.96 | 100 | 270 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.99 | 66.67 | -7.33 | 74 | 62.54 | 32.06 | 6.03 | 33.96 | 100 | 60 | Peak |
| 2389.99 | 43.75 | -10.25 | 54 | 39.62 | 32.06 | 6.03 | 33.96 | 100 | 60 | Average |

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 16 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 11 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 66.43 | -7.57 | 74 | 62.07 | 32.18 | 6.18 | 34 | 200 | 224 | Peak |
| 2483.5 | 45.48 | -8.52 | 54 | 41.12 | 32.18 | 6.18 | 34 | 200 | 224 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 64.87 | -9.13 | 74 | 60.51 | 32.18 | 6.18 | 34 | 100 | 274 | Peak |
| 2483.5 | 43.77 | -10.23 | 54 | 39.41 | 32.18 | 6.18 | 34 | 100 | 274 | Average |

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 17 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 12 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 68.67 | -5.33 | 74 | 64.31 | 32.18 | 6.18 | 34 | 120 | 90 | Peak |
| 2483.5 | 49.16 | -4.84 | 54 | 44.8 | 32.18 | 6.18 | 34 | 120 | 90 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 66.6 | -7.4 | 74 | 62.24 | 32.18 | 6.18 | 34 | 100 | 66 | Peak |
| 2483.5 | 46.5 | -7.5 | 54 | 42.14 | 32.18 | 6.18 | 34 | 100 | 66 | Average |

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 18 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 13 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 70.65 | -3.35 | 74 | 66.29 | 32.18 | 6.18 | 34 | 198 | 351 | Peak |
| 2483.5 | 45.28 | -8.72 | 54 | 40.92 | 32.18 | 6.18 | 34 | 198 | 351 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.85 | 65.6 | -8.4 | 74 | 61.24 | 32.18 | 6.18 | 34 | 100 | 68 | Peak |
| 2483.85 | 41.18 | -12.82 | 54 | 36.82 | 32.18 | 6.18 | 34 | 100 | 68 | Average |



| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 19 | Temperature : | 24~25°C |
| Test Band : | 802.11a | Relative Humidity : | 42~43% |
| Test Channel : | 149 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 80.45 | -11.02 | 91.47 | 68.98 | 34.81 | 9.92 | 33.26 | 100 | 57 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 88.46 | -4.6 | 93.06 | 76.99 | 34.81 | 9.92 | 33.26 | 100 | 57 | Peak |

| | | | |
|-----------------------|---------|----------------------------|----------|
| Test Mode : | Mode 21 | Temperature : | 24~25°C |
| Test Band : | 802.11a | Relative Humidity : | 42~43% |
| Test Channel : | 165 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5850 | 69.78 | -17.5 | 87.28 | 58.36 | 34.96 | 9.88 | 33.42 | 100 | 342 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5850 | 75.62 | -17.39 | 93.01 | 64.23 | 34.98 | 9.87 | 33.46 | 127 | 11 | Peak |



| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 22 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 149 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 83.27 | -4.45 | 87.72 | 71.8 | 34.81 | 9.92 | 33.26 | 101 | 343 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 91.99 | -2.15 | 94.14 | 80.52 | 34.81 | 9.92 | 33.26 | 129 | 5 | Peak |

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 24 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 165 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5850 | 80.27 | -8.88 | 89.15 | 68.88 | 34.98 | 9.87 | 33.46 | 103 | 307 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5850 | 83.48 | -9.9 | 93.38 | 72.09 | 34.98 | 9.87 | 33.46 | 139 | 1 | Peak |

**<Numeric Keypad with Camera>**

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 25 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 149 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 84.87 | -3.31 | 88.18 | 73.4 | 34.81 | 9.92 | 33.26 | 107 | 206 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 90.34 | -2.02 | 92.36 | 78.87 | 34.81 | 9.92 | 33.26 | 115 | 3 | Peak |

<PIM Keypad with Camera>

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 26 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 149 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 81.08 | -5.57 | 86.65 | 69.61 | 34.81 | 9.92 | 33.26 | 100 | 314 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 85.52 | -3.31 | 88.83 | 74.05 | 34.81 | 9.92 | 33.26 | 156 | 22 | Peak |

**<Qwerty Keypad without Camera>**

| | | | |
|-----------------------|--------------------|----------------------------|----------|
| Test Mode : | Mode 27 | Temperature : | 24~25°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 42~43% |
| Test Channel : | 149 | Test Engineer : | Gavin Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 81.22 | -5.74 | 86.96 | 69.75 | 34.81 | 9.92 | 33.26 | 103 | 323 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 5725 | 86.06 | -2.9 | 88.96 | 74.59 | 34.81 | 9.92 | 33.26 | 158 | 20 | Peak |

3.5.7 Test Result of Radiated Emission (30MHz ~ 10th Harmonic)

<Qwerty Keypad with Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 1 | Temperature : | 24~25°C |
| Test Channel : | 01 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2412 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 22.87 | -17.13 | 40 | 34.21 | 20 | 0.53 | 31.87 | - | - | Peak |
| 180.66 | 30.93 | -12.57 | 43.5 | 51.97 | 8.9 | 1.25 | 31.19 | 100 | 25 | Peak |
| 245.73 | 22.01 | -23.99 | 46 | 39.4 | 12.26 | 1.53 | 31.18 | - | - | Peak |
| 318.9 | 19.91 | -26.09 | 46 | 35.41 | 13.82 | 1.81 | 31.13 | - | - | Peak |
| 532.4 | 20.44 | -25.56 | 46 | 30.42 | 18.64 | 2.51 | 31.13 | - | - | Peak |
| 780.9 | 25.12 | -20.88 | 46 | 30.5 | 21.81 | 3.11 | 30.3 | - | - | Peak |
| 2385.81 | 40.38 | -13.62 | 54 | 36.25 | 32.06 | 6.03 | 33.96 | 100 | 270 | Average |
| 2385.81 | 51.96 | -22.04 | 74 | 47.83 | 32.06 | 6.03 | 33.96 | 100 | 270 | Peak |
| 2412 | 103.96 | - | - | 99.78 | 32.08 | 6.07 | 33.97 | 100 | 270 | Average |
| 2412 | 107.94 | - | - | 103.76 | 32.08 | 6.07 | 33.97 | 100 | 270 | Peak |
| 2490 | 35.21 | -18.79 | 54 | 30.83 | 32.2 | 6.18 | 34 | 100 | 270 | Average |
| 2490 | 48.63 | -25.37 | 74 | 44.25 | 32.2 | 6.18 | 34 | 100 | 270 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 1 | Temperature : | 24~25°C |
| Test Channel : | 01 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2412 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 32.06 | -7.94 | 40 | 43.4 | 20 | 0.53 | 31.87 | 100 | 12 | Peak |
| 180.66 | 31.55 | -11.95 | 43.5 | 52.59 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 226.56 | 24.66 | -21.34 | 46 | 43.43 | 10.98 | 1.46 | 31.21 | - | - | Peak |
| 511.4 | 20.35 | -25.65 | 46 | 30.57 | 18.28 | 2.47 | 30.97 | - | - | Peak |
| 633.2 | 22.01 | -23.99 | 46 | 29.57 | 20.06 | 2.79 | 30.41 | - | - | Peak |
| 897.8 | 31.85 | -14.15 | 46 | 36.25 | 23.08 | 3.34 | 30.82 | - | - | Peak |
| 2388.85 | 37.1 | -16.9 | 54 | 32.97 | 32.06 | 6.03 | 33.96 | 100 | 61 | Average |
| 2388.85 | 49.86 | -24.14 | 74 | 45.73 | 32.06 | 6.03 | 33.96 | 100 | 61 | Peak |
| 2412 | 99.4 | - | - | 95.22 | 32.08 | 6.07 | 33.97 | 100 | 61 | Average |
| 2412 | 103.17 | - | - | 98.99 | 32.08 | 6.07 | 33.97 | 100 | 61 | Peak |
| 2492 | 34.54 | -19.46 | 54 | 30.16 | 32.2 | 6.18 | 34 | 100 | 61 | Average |
| 2492 | 46.8 | -27.2 | 74 | 42.42 | 32.2 | 6.18 | 34 | 100 | 61 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 2 | Temperature : | 24~25°C |
| Test Channel : | 06 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2437 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 22.83 | -17.17 | 40 | 34.17 | 20 | 0.53 | 31.87 | - | - | Peak |
| 181.2 | 30.84 | -12.66 | 43.5 | 51.87 | 8.91 | 1.25 | 31.19 | 100 | 71 | Peak |
| 246.27 | 22.18 | -23.82 | 46 | 39.5 | 12.33 | 1.53 | 31.18 | - | - | Peak |
| 316.8 | 20.52 | -25.48 | 46 | 36.09 | 13.77 | 1.8 | 31.14 | - | - | Peak |
| 531 | 19.69 | -26.31 | 46 | 29.69 | 18.61 | 2.51 | 31.12 | - | - | Peak |
| 714.4 | 23.36 | -22.64 | 46 | 30.06 | 20.82 | 2.98 | 30.5 | - | - | Peak |
| 2390 | 37.08 | -16.92 | 54 | 32.95 | 32.06 | 6.03 | 33.96 | 112 | 334 | Average |
| 2390 | 49.25 | -24.75 | 74 | 45.12 | 32.06 | 6.03 | 33.96 | 112 | 334 | Peak |
| 2437 | 104.31 | - | - | 100.05 | 32.13 | 6.11 | 33.98 | 112 | 334 | Average |
| 2437 | 108.84 | - | - | 104.58 | 32.13 | 6.11 | 33.98 | 112 | 334 | Peak |
| 2494 | 38.59 | -15.41 | 54 | 34.21 | 32.2 | 6.18 | 34 | 112 | 334 | Average |
| 2494 | 50.14 | -23.86 | 74 | 45.76 | 32.2 | 6.18 | 34 | 112 | 334 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 2 | Temperature : | 24~25°C |
| Test Channel : | 06 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2437 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 32.78 | -7.22 | 40 | 44.12 | 20 | 0.53 | 31.87 | 100 | 57 | Peak |
| 139.89 | 30.97 | -12.53 | 43.5 | 49.83 | 11.4 | 1.2 | 31.46 | - | - | Peak |
| 181.2 | 31.51 | -11.99 | 43.5 | 52.54 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 301.4 | 19.54 | -26.46 | 46 | 35.68 | 13.35 | 1.77 | 31.26 | - | - | Peak |
| 525.4 | 20.8 | -25.2 | 46 | 30.85 | 18.53 | 2.5 | 31.08 | - | - | Peak |
| 587.7 | 21.29 | -24.71 | 46 | 29.76 | 19.59 | 2.65 | 30.71 | - | - | Peak |
| 2390 | 35.89 | -18.11 | 54 | 31.76 | 32.06 | 6.03 | 33.96 | 100 | 69 | Average |
| 2390 | 48.43 | -25.57 | 74 | 44.3 | 32.06 | 6.03 | 33.96 | 100 | 69 | Peak |
| 2437 | 101.75 | - | - | 97.49 | 32.13 | 6.11 | 33.98 | 100 | 69 | Average |
| 2437 | 105.75 | - | - | 101.49 | 32.13 | 6.11 | 33.98 | 100 | 69 | Peak |
| 2498 | 37.53 | -16.47 | 54 | 33.15 | 32.2 | 6.18 | 34 | 100 | 69 | Average |
| 2498 | 50.6 | -23.4 | 74 | 46.22 | 32.2 | 6.18 | 34 | 100 | 69 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 22.03 | -17.97 | 40 | 34.08 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 180.66 | 30.82 | -12.68 | 43.5 | 51.86 | 8.9 | 1.25 | 31.19 | 100 | 29 | Peak |
| 266.25 | 21.67 | -24.33 | 46 | 38.5 | 12.83 | 1.62 | 31.28 | - | - | Peak |
| 318.9 | 20.27 | -25.73 | 46 | 35.77 | 13.82 | 1.81 | 31.13 | - | - | Peak |
| 630.4 | 22.3 | -23.7 | 46 | 29.91 | 20.04 | 2.78 | 30.43 | - | - | Peak |
| 837.6 | 26.77 | -19.23 | 46 | 31.5 | 22.48 | 3.24 | 30.45 | - | - | Peak |
| 2356 | 33.33 | -20.67 | 54 | 29.31 | 32.01 | 5.95 | 33.94 | 166 | 214 | Average |
| 2356 | 44.76 | -29.24 | 74 | 40.74 | 32.01 | 5.95 | 33.94 | 166 | 214 | Peak |
| 2462 | 105.9 | - | - | 101.6 | 32.15 | 6.14 | 33.99 | 166 | 214 | Average |
| 2462 | 109.86 | - | - | 105.56 | 32.15 | 6.14 | 33.99 | 166 | 214 | Peak |
| 2491.61 | 40.81 | -13.19 | 54 | 36.43 | 32.2 | 6.18 | 34 | 166 | 214 | Average |
| 2491.61 | 51.61 | -22.39 | 74 | 47.23 | 32.2 | 6.18 | 34 | 166 | 214 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 33.01 | -6.99 | 40 | 44.35 | 20 | 0.53 | 31.87 | 100 | 58 | Peak |
| 181.2 | 31.67 | -11.83 | 43.5 | 52.7 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 226.83 | 24.26 | -21.74 | 46 | 43.03 | 10.98 | 1.46 | 31.21 | - | - | Peak |
| 318.2 | 19.71 | -26.29 | 46 | 35.24 | 13.8 | 1.81 | 31.14 | - | - | Peak |
| 743.1 | 23.65 | -22.35 | 46 | 29.89 | 21.24 | 3.04 | 30.52 | - | - | Peak |
| 897.8 | 27.49 | -18.51 | 46 | 31.89 | 23.08 | 3.34 | 30.82 | - | - | Peak |
| 2354 | 32.93 | -21.07 | 54 | 28.91 | 32.01 | 5.95 | 33.94 | 100 | 272 | Average |
| 2354 | 45.18 | -28.82 | 74 | 41.16 | 32.01 | 5.95 | 33.94 | 100 | 272 | Peak |
| 2462 | 100.36 | - | - | 96.06 | 32.15 | 6.14 | 33.99 | 100 | 272 | Average |
| 2462 | 104.28 | - | - | 99.98 | 32.15 | 6.14 | 33.99 | 100 | 272 | Peak |
| 2491.26 | 37.56 | -16.44 | 54 | 33.18 | 32.2 | 6.18 | 34 | 100 | 272 | Average |
| 2491.26 | 49.1 | -24.9 | 74 | 44.72 | 32.2 | 6.18 | 34 | 100 | 272 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 4 | Temperature : | 24~25°C |
| Test Channel : | 12 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2467 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2336 | 32.86 | -21.14 | 54 | 28.87 | 31.98 | 5.95 | 33.94 | 112 | 28 | Average |
| 2336 | 46.15 | -27.85 | 74 | 42.16 | 31.98 | 5.95 | 33.94 | 112 | 28 | Peak |
| 2467 | 99.12 | - | - | 94.82 | 32.15 | 6.14 | 33.99 | 112 | 28 | Average |
| 2467 | 102.97 | - | - | 98.67 | 32.15 | 6.14 | 33.99 | 112 | 28 | Peak |
| 2483.5 | 44.37 | -9.63 | 54 | 40.01 | 32.18 | 6.18 | 34 | 112 | 28 | Average |
| 2483.5 | 53.56 | -20.44 | 74 | 49.2 | 32.18 | 6.18 | 34 | 112 | 28 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 4 | Temperature : | 24~25°C |
| Test Channel : | 12 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2467 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2338 | 32.71 | -21.29 | 54 | 28.72 | 31.98 | 5.95 | 33.94 | 100 | 65 | Average |
| 2338 | 44.36 | -29.64 | 74 | 40.37 | 31.98 | 5.95 | 33.94 | 100 | 65 | Peak |
| 2467 | 95.73 | - | - | 91.43 | 32.15 | 6.14 | 33.99 | 100 | 65 | Average |
| 2467 | 99.68 | - | - | 95.38 | 32.15 | 6.14 | 33.99 | 100 | 65 | Peak |
| 2483.66 | 43.23 | -10.77 | 54 | 38.87 | 32.18 | 6.18 | 34 | 100 | 65 | Average |
| 2483.66 | 52.58 | -21.42 | 74 | 48.22 | 32.18 | 6.18 | 34 | 100 | 65 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 5 | Temperature : | 24~25°C |
| Test Channel : | 13 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2472 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2388 | 32.61 | -21.39 | 54 | 28.48 | 32.06 | 6.03 | 33.96 | 197 | 352 | Average |
| 2388 | 44.01 | -29.99 | 74 | 39.88 | 32.06 | 6.03 | 33.96 | 197 | 352 | Peak |
| 2472 | 95.18 | - | - | 90.85 | 32.18 | 6.14 | 33.99 | 197 | 352 | Average |
| 2472 | 99.71 | - | - | 95.38 | 32.18 | 6.14 | 33.99 | 197 | 352 | Peak |
| 2483.5 | 43.03 | -10.97 | 54 | 38.67 | 32.18 | 6.18 | 34 | 197 | 352 | Average |
| 2483.5 | 50.97 | -23.03 | 74 | 46.61 | 32.18 | 6.18 | 34 | 197 | 352 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 5 | Temperature : | 24~25°C |
| Test Channel : | 13 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2472 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2384 | 32.89 | -21.11 | 54 | 28.79 | 32.03 | 6.03 | 33.96 | 100 | 61 | Average |
| 2384 | 44.41 | -29.59 | 74 | 40.31 | 32.03 | 6.03 | 33.96 | 100 | 61 | Peak |
| 2472 | 93.22 | - | - | 88.89 | 32.18 | 6.14 | 33.99 | 100 | 61 | Average |
| 2472 | 97.02 | - | - | 92.69 | 32.18 | 6.14 | 33.99 | 100 | 61 | Peak |
| 2486.7 | 42.35 | -11.65 | 54 | 37.99 | 32.18 | 6.18 | 34 | 100 | 61 | Average |
| 2486.7 | 51.18 | -22.82 | 74 | 46.82 | 32.18 | 6.18 | 34 | 100 | 61 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 6 | Temperature : | 24~25°C |
| Test Channel : | 01 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2412 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 31.08 | 21.36 | -18.64 | 40 | 33.41 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 180.66 | 30.97 | -12.53 | 43.5 | 52.01 | 8.9 | 1.25 | 31.19 | 100 | 47 | Peak |
| 248.97 | 21.38 | -24.62 | 46 | 38.48 | 12.53 | 1.53 | 31.16 | - | - | Peak |
| 320.3 | 20.02 | -25.98 | 46 | 35.48 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 594.7 | 21.62 | -24.38 | 46 | 29.86 | 19.7 | 2.67 | 30.61 | - | - | Peak |
| 785.8 | 24.46 | -21.54 | 46 | 29.72 | 21.88 | 3.12 | 30.26 | - | - | Peak |
| 2389.99 | 43.7 | -10.3 | 54 | 39.57 | 32.06 | 6.03 | 33.96 | 100 | 136 | Average |
| 2389.99 | 72.01 | -1.99 | 74 | 67.88 | 32.06 | 6.03 | 33.96 | 100 | 136 | Peak |
| 2412 | 90.38 | - | - | 86.2 | 32.08 | 6.07 | 33.97 | 100 | 136 | Average |
| 2412 | 107.29 | - | - | 103.11 | 32.08 | 6.07 | 33.97 | 100 | 136 | Peak |
| 2486 | 34.49 | -19.51 | 54 | 30.13 | 32.18 | 6.18 | 34 | 100 | 136 | Average |
| 2486 | 48 | -26 | 74 | 43.64 | 32.18 | 6.18 | 34 | 100 | 136 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 6 | Temperature : | 24~25°C |
| Test Channel : | 01 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2412 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.81 | 32.52 | -7.48 | 40 | 44.57 | 19.28 | 0.54 | 31.87 | 100 | 71 | Peak |
| 138 | 30.06 | -13.44 | 43.5 | 48.91 | 11.44 | 1.19 | 31.48 | - | - | Peak |
| 180.66 | 31.49 | -12.01 | 43.5 | 52.53 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 300.7 | 20.2 | -25.8 | 46 | 36.36 | 13.33 | 1.77 | 31.26 | - | - | Peak |
| 680.8 | 22.74 | -23.26 | 46 | 29.84 | 20.44 | 2.9 | 30.44 | - | - | Peak |
| 897.8 | 32.93 | -13.07 | 46 | 37.33 | 23.08 | 3.34 | 30.82 | - | - | Peak |
| 2389.8 | 39.61 | -14.39 | 54 | 35.48 | 32.06 | 6.03 | 33.96 | 128 | 268 | Average |
| 2389.8 | 64.99 | -9.01 | 74 | 60.86 | 32.06 | 6.03 | 33.96 | 128 | 268 | Peak |
| 2412 | 87.73 | - | - | 83.55 | 32.08 | 6.07 | 33.97 | 128 | 268 | Average |
| 2412 | 103.28 | - | - | 99.1 | 32.08 | 6.07 | 33.97 | 128 | 268 | Peak |
| 2496 | 34.65 | -19.35 | 54 | 30.27 | 32.2 | 6.18 | 34 | 128 | 268 | Average |
| 2496 | 46.6 | -27.4 | 74 | 42.22 | 32.2 | 6.18 | 34 | 128 | 268 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 7 | Temperature : | 24~25°C |
| Test Channel : | 06 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2437 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 23.42 | -16.58 | 40 | 34.76 | 20 | 0.53 | 31.87 | - | - | Peak |
| 180.66 | 30.9 | -12.6 | 43.5 | 51.94 | 8.9 | 1.25 | 31.19 | 100 | 87 | Peak |
| 246.27 | 21.7 | -24.3 | 46 | 39.02 | 12.33 | 1.53 | 31.18 | - | - | Peak |
| 319.6 | 20.41 | -25.59 | 46 | 35.87 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 731.2 | 24.68 | -21.32 | 46 | 31.1 | 21.07 | 3.02 | 30.51 | - | - | Peak |
| 818.7 | 24.93 | -21.07 | 46 | 29.76 | 22.28 | 3.19 | 30.3 | - | - | Peak |
| 1918 | 48.38 | -25.62 | 74 | 46.03 | 30.87 | 5.28 | 33.8 | - | - | Peak |
| 2386 | 40.02 | -13.98 | 54 | 35.89 | 32.06 | 6.03 | 33.96 | 100 | 225 | Average |
| 2386 | 60.39 | -13.61 | 74 | 56.26 | 32.06 | 6.03 | 33.96 | 100 | 225 | Peak |
| 2437 | 96.36 | - | - | 92.1 | 32.13 | 6.11 | 33.98 | 100 | 225 | Average |
| 2437 | 112.29 | - | - | 108.03 | 32.13 | 6.11 | 33.98 | 100 | 225 | Peak |
| 2486 | 42.01 | -11.99 | 54 | 37.65 | 32.18 | 6.18 | 34 | 100 | 225 | Average |
| 2486 | 62.98 | -11.02 | 74 | 58.62 | 32.18 | 6.18 | 34 | 100 | 225 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 7 | Temperature : | 24~25°C |
| Test Channel : | 06 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2437 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 32.8 | -7.2 | 40 | 44.14 | 20 | 0.53 | 31.87 | 100 | 47 | Peak |
| 99.66 | 33.87 | -9.63 | 43.5 | 54.74 | 9.8 | 0.99 | 31.66 | - | - | Peak |
| 181.2 | 31.65 | -11.85 | 43.5 | 52.68 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 318.9 | 18.96 | -27.04 | 46 | 34.46 | 13.82 | 1.81 | 31.13 | - | - | Peak |
| 750.8 | 23.76 | -22.24 | 46 | 29.86 | 21.36 | 3.06 | 30.52 | - | - | Peak |
| 920.2 | 25.52 | -20.48 | 46 | 29.55 | 23.41 | 3.39 | 30.83 | - | - | Peak |
| 2390 | 37.55 | -16.45 | 54 | 33.42 | 32.06 | 6.03 | 33.96 | 102 | 280 | Average |
| 2390 | 58.5 | -15.5 | 74 | 54.37 | 32.06 | 6.03 | 33.96 | 102 | 280 | Peak |
| 2437 | 93.02 | - | - | 88.76 | 32.13 | 6.11 | 33.98 | 102 | 280 | Average |
| 2437 | 109.17 | - | - | 104.91 | 32.13 | 6.11 | 33.98 | 102 | 280 | Peak |
| 2484 | 40.04 | -13.96 | 54 | 35.68 | 32.18 | 6.18 | 34 | 102 | 280 | Average |
| 2484 | 58.89 | -15.11 | 74 | 54.53 | 32.18 | 6.18 | 34 | 102 | 280 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 8 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 22.49 | -1 | 40 | 33.83 | 20 | 0.53 | 31.87 | - | - | Peak |
| 142.59 | 20.22 | -23.28 | 43.5 | 39.11 | 11.35 | 1.2 | 31.44 | - | - | Peak |
| 180.12 | 30.92 | -12.58 | 43.5 | 51.95 | 8.9 | 1.25 | 31.18 | 100 | 55 | Peak |
| 318.9 | 20.12 | -25.88 | 46 | 35.62 | 13.82 | 1.81 | 31.13 | - | - | Peak |
| 524 | 20.37 | -25.63 | 46 | 30.44 | 18.5 | 2.5 | 31.07 | - | - | Peak |
| 925.8 | 25.44 | -20.56 | 46 | 29.39 | 23.49 | 3.4 | 30.84 | - | - | Peak |
| 2374 | 34.59 | -19.41 | 54 | 30.52 | 32.03 | 5.99 | 33.95 | 100 | 215 | Average |
| 2374 | 45.99 | -28.01 | 74 | 41.92 | 32.03 | 5.99 | 33.95 | 100 | 215 | Peak |
| 2462 | 94.41 | - | - | 90.11 | 32.15 | 6.14 | 33.99 | 100 | 215 | Average |
| 2462 | 111.6 | - | - | 107.3 | 32.15 | 6.14 | 33.99 | 100 | 215 | Peak |
| 2483.5 | 50.38 | -3.62 | 54 | 46.02 | 32.18 | 6.18 | 34 | 100 | 215 | Average |
| 2483.5 | 72.9 | -1.1 | 74 | 68.54 | 32.18 | 6.18 | 34 | 100 | 215 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 8 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 32.44 | -7.56 | 40 | 43.78 | 20 | 0.53 | 31.87 | 100 | 28 | Peak |
| 138.27 | 30.3 | -13.2 | 43.5 | 49.16 | 11.42 | 1.2 | 31.48 | - | - | Peak |
| 181.74 | 31.86 | -11.64 | 43.5 | 52.91 | 8.91 | 1.25 | 31.21 | - | - | Peak |
| 511.4 | 20.46 | -25.54 | 46 | 30.68 | 18.28 | 2.47 | 30.97 | - | - | Peak |
| 729.1 | 23.56 | -22.44 | 46 | 30.02 | 21.04 | 3.01 | 30.51 | - | - | Peak |
| 880.3 | 25.43 | -20.57 | 46 | 29.92 | 22.91 | 3.31 | 30.71 | - | - | Peak |
| 2324 | 33.12 | -20.88 | 54 | 29.17 | 31.96 | 5.92 | 33.93 | 100 | 210 | Average |
| 2324 | 44.84 | -29.16 | 74 | 40.89 | 31.96 | 5.92 | 33.93 | 100 | 210 | Peak |
| 2462 | 90.94 | - | - | 86.64 | 32.15 | 6.14 | 33.99 | 100 | 210 | Average |
| 2462 | 106.42 | - | - | 102.12 | 32.15 | 6.14 | 33.99 | 100 | 210 | Peak |
| 2483.85 | 47.14 | -6.86 | 54 | 42.78 | 32.18 | 6.18 | 34 | 100 | 210 | Average |
| 2483.85 | 72.11 | -1.89 | 74 | 67.75 | 32.18 | 6.18 | 34 | 100 | 210 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 9 | Temperature : | 24~25°C |
| Test Channel : | 12 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2467 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2336 | 32.75 | -21.25 | 54 | 28.76 | 31.98 | 5.95 | 33.94 | 199 | 148 | Average |
| 2336 | 45.3 | -28.7 | 74 | 41.31 | 31.98 | 5.95 | 33.94 | 199 | 148 | Peak |
| 2467 | 88.32 | - | - | 84.02 | 32.15 | 6.14 | 33.99 | 199 | 148 | Average |
| 2467 | 103.66 | - | - | 99.33 | 32.18 | 6.14 | 33.99 | 199 | 148 | Peak |
| 2483.5 | 45.52 | -8.48 | 54 | 41.16 | 32.18 | 6.18 | 34 | 199 | 148 | Average |
| 2483.5 | 66.49 | -7.51 | 74 | 62.13 | 32.18 | 6.18 | 34 | 199 | 148 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 9 | Temperature : | 24~25°C |
| Test Channel : | 12 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2467 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2318 | 27.83 | -26.17 | 54 | 23.88 | 31.96 | 5.92 | 33.93 | 100 | 65 | Average |
| 2318 | 44.29 | -29.71 | 74 | 40.34 | 31.96 | 5.92 | 33.93 | 100 | 65 | Peak |
| 2467 | 85.85 | - | - | 81.55 | 32.15 | 6.14 | 33.99 | 100 | 65 | Average |
| 2467 | 101.22 | - | - | 96.89 | 32.18 | 6.14 | 33.99 | 100 | 65 | Peak |
| 2483.66 | 47.09 | -6.91 | 54 | 42.73 | 32.18 | 6.18 | 34 | 100 | 65 | Average |
| 2483.66 | 67.71 | -6.29 | 74 | 63.35 | 32.18 | 6.18 | 34 | 100 | 65 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 10 | Temperature : | 24~25°C |
| Test Channel : | 13 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2472 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2352 | 32.71 | -21.29 | 54 | 28.69 | 32.01 | 5.95 | 33.94 | 199 | 354 | Average |
| 2352 | 44.89 | -29.11 | 74 | 40.87 | 32.01 | 5.95 | 33.94 | 199 | 354 | Peak |
| 2472 | 79.15 | - | - | 74.82 | 32.18 | 6.14 | 33.99 | 199 | 354 | Average |
| 2472 | 93.81 | - | - | 89.48 | 32.18 | 6.14 | 33.99 | 199 | 354 | Peak |
| 2483.5 | 44.14 | -9.86 | 54 | 39.78 | 32.18 | 6.18 | 34 | 199 | 354 | Average |
| 2483.5 | 72.59 | -1.41 | 74 | 68.23 | 32.18 | 6.18 | 34 | 199 | 354 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 10 | Temperature : | 24~25°C |
| Test Channel : | 13 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2472 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2376 | 32.93 | -21.07 | 54 | 28.86 | 32.03 | 5.99 | 33.95 | 100 | 67 | Average |
| 2376 | 44.74 | -29.26 | 74 | 40.67 | 32.03 | 5.99 | 33.95 | 100 | 67 | Peak |
| 2472 | 76.81 | - | - | 72.48 | 32.18 | 6.14 | 33.99 | 100 | 67 | Average |
| 2472 | 91.54 | - | - | 87.21 | 32.18 | 6.14 | 33.99 | 100 | 67 | Peak |
| 2483.66 | 42.75 | -11.25 | 54 | 38.39 | 32.18 | 6.18 | 34 | 100 | 67 | Average |
| 2483.66 | 70.77 | -3.23 | 74 | 66.41 | 32.18 | 6.18 | 34 | 100 | 67 | Peak |

<Numeric Keypad with Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 11 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 31.08 | 21.01 | -18.99 | 40 | 33.06 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 172.56 | 25.75 | -17.75 | 43.5 | 46.47 | 9.29 | 1.24 | 31.25 | - | - | Peak |
| 181.2 | 30.85 | -12.65 | 43.5 | 51.88 | 8.91 | 1.25 | 31.19 | 114 | 172 | Peak |
| 647.2 | 22.64 | -23.36 | 46 | 30 | 20.17 | 2.83 | 30.36 | - | - | Peak |
| 735.4 | 22.43 | -23.57 | 46 | 28.81 | 21.12 | 3.02 | 30.52 | - | - | Peak |
| 786.5 | 23.38 | -22.62 | 46 | 28.62 | 21.9 | 3.12 | 30.26 | - | - | Peak |
| 2384 | 34.59 | -19.41 | 54 | 30.52 | 32.03 | 5.99 | 33.95 | 110 | 219 | Average |
| 2384 | 45.99 | -28.01 | 74 | 41.92 | 32.03 | 5.99 | 33.95 | 110 | 219 | Peak |
| 2462 | 92.41 | - | - | 88.11 | 32.15 | 6.14 | 33.99 | 110 | 219 | Average |
| 2462 | 109.6 | - | - | 105.3 | 32.15 | 6.14 | 33.99 | 110 | 219 | Peak |
| 2483.5 | 50.83 | -3.17 | 54 | 46.47 | 32.18 | 6.18 | 34 | 110 | 219 | Average |
| 2483.5 | 72 | -2 | 74 | 67.64 | 32.18 | 6.18 | 34 | 110 | 219 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 11 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 33.37 | -6.63 | 40 | 44.71 | 20 | 0.53 | 31.87 | 105 | 181 | Peak |
| 131.52 | 30.19 | -13.31 | 43.5 | 49.02 | 11.56 | 1.16 | 31.55 | - | - | Peak |
| 180.66 | 31.57 | -11.93 | 43.5 | 52.61 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 647.9 | 23.24 | -22.76 | 46 | 30.59 | 20.18 | 2.83 | 30.36 | - | - | Peak |
| 708.8 | 22.74 | -23.26 | 46 | 29.55 | 20.73 | 2.96 | 30.5 | - | - | Peak |
| 806.1 | 24.39 | -21.61 | 46 | 29.28 | 22.16 | 3.16 | 30.21 | - | - | Peak |
| 2335 | 33.26 | -20.74 | 54 | 29.31 | 31.96 | 5.92 | 33.93 | 110 | 223 | Average |
| 2335 | 43.35 | -30.65 | 74 | 39.4 | 31.96 | 5.92 | 33.93 | 110 | 223 | Peak |
| 2462 | 90.64 | - | - | 86.34 | 32.15 | 6.14 | 33.99 | 110 | 223 | Average |
| 2462 | 106.88 | - | - | 102.58 | 32.15 | 6.14 | 33.99 | 110 | 223 | Peak |
| 2483.85 | 46.24 | -7.76 | 54 | 41.88 | 32.18 | 6.18 | 34 | 110 | 223 | Average |
| 2483.85 | 70.21 | -3.79 | 74 | 65.85 | 32.18 | 6.18 | 34 | 110 | 223 | Peak |

<PIM Keypad with Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 12 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.81 | 20.89 | -19.11 | 40 | 32.94 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 172.56 | 25.67 | -17.83 | 43.5 | 46.39 | 9.29 | 1.24 | 31.25 | - | - | Peak |
| 181.2 | 31.03 | -12.47 | 43.5 | 52.06 | 8.91 | 1.25 | 31.19 | 105 | 204 | Peak |
| 682.9 | 22.4 | -23.6 | 46 | 29.47 | 20.46 | 2.91 | 30.44 | - | - | Peak |
| 744.5 | 23.06 | -22.94 | 46 | 29.27 | 21.27 | 3.05 | 30.53 | - | - | Peak |
| 807.5 | 24.12 | -21.88 | 46 | 28.99 | 22.18 | 3.16 | 30.21 | - | - | Peak |
| 2390 | 33.49 | -20.51 | 54 | 29.36 | 32.06 | 6.03 | 33.96 | 100 | 218 | Average |
| 2390 | 45.61 | -28.39 | 74 | 41.48 | 32.06 | 6.03 | 33.96 | 100 | 218 | Peak |
| 2462 | 97.58 | - | - | 93.28 | 32.15 | 6.14 | 33.99 | 100 | 218 | Average |
| 2462 | 108.51 | - | - | 104.21 | 32.15 | 6.14 | 33.99 | 100 | 218 | Peak |
| 2483.66 | 41.08 | -12.92 | 54 | 36.72 | 32.18 | 6.18 | 34 | 100 | 218 | Average |
| 2483.66 | 70.29 | -3.71 | 74 | 65.93 | 32.18 | 6.18 | 34 | 100 | 218 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 12 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 33.81 | -6.19 | 40 | 45.15 | 20 | 0.53 | 31.87 | 111 | 156 | Peak |
| 131.25 | 30.58 | -12.92 | 43.5 | 49.41 | 11.58 | 1.15 | 31.56 | - | - | Peak |
| 181.2 | 31.51 | -11.99 | 43.5 | 52.54 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 614.3 | 21.88 | -24.12 | 46 | 29.73 | 19.91 | 2.73 | 30.49 | - | - | Peak |
| 645.8 | 22.74 | -23.26 | 46 | 30.11 | 20.17 | 2.83 | 30.37 | - | - | Peak |
| 777.4 | 24.1 | -21.9 | 46 | 29.56 | 21.77 | 3.1 | 30.33 | - | - | Peak |
| 2344 | 28.87 | -25.13 | 54 | 24.88 | 31.98 | 5.95 | 33.94 | 100 | 49 | Average |
| 2344 | 44.77 | -29.23 | 74 | 40.78 | 31.98 | 5.95 | 33.94 | 100 | 49 | Peak |
| 2462 | 93.69 | - | - | 89.39 | 32.15 | 6.14 | 33.99 | 100 | 49 | Average |
| 2462 | 104.45 | - | - | 100.15 | 32.15 | 6.14 | 33.99 | 100 | 49 | Peak |
| 2483.5 | 38.69 | -15.31 | 54 | 34.33 | 32.18 | 6.18 | 34 | 100 | 49 | Average |
| 2483.5 | 62.64 | -11.36 | 74 | 58.28 | 32.18 | 6.18 | 34 | 100 | 49 | Peak |

<Qwerty Keypad without Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 13 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 20.87 | -19.13 | 40 | 32.92 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 172.83 | 25.69 | -17.81 | 43.5 | 46.41 | 9.29 | 1.24 | 31.25 | - | - | Peak |
| 180.12 | 30.82 | -12.68 | 43.5 | 51.85 | 8.9 | 1.25 | 31.18 | 115 | 199 | Peak |
| 636.7 | 21.79 | -24.21 | 46 | 29.3 | 20.09 | 2.8 | 30.4 | - | - | Peak |
| 691.3 | 22.7 | -23.3 | 46 | 29.71 | 20.53 | 2.92 | 30.46 | - | - | Peak |
| 752.9 | 23.19 | -22.81 | 46 | 29.25 | 21.39 | 3.06 | 30.51 | - | - | Peak |
| 2378 | 33.36 | -20.64 | 54 | 29.29 | 32.03 | 5.99 | 33.95 | 121 | 94 | Average |
| 2378 | 45.54 | -28.46 | 74 | 41.47 | 32.03 | 5.99 | 33.95 | 121 | 94 | Peak |
| 2462 | 98.75 | - | - | 94.45 | 32.15 | 6.14 | 33.99 | 121 | 94 | Average |
| 2462 | 109.09 | - | - | 104.79 | 32.15 | 6.14 | 33.99 | 121 | 94 | Peak |
| 2483.66 | 45.66 | -8.34 | 54 | 41.3 | 32.18 | 6.18 | 34 | 121 | 94 | Average |
| 2483.66 | 69.17 | -4.83 | 74 | 64.81 | 32.18 | 6.18 | 34 | 121 | 94 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 13 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 33.75 | -6.25 | 40 | 45.09 | 20 | 0.53 | 31.87 | 105 | 136 | Peak |
| 66.99 | 32.02 | -7.98 | 40 | 56.74 | 6.24 | 0.82 | 31.78 | - | - | Peak |
| 180.66 | 31.4 | -12.1 | 43.5 | 52.44 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 500.9 | 19.23 | -26.77 | 46 | 29.58 | 18.1 | 2.45 | 30.9 | - | - | Peak |
| 682.9 | 23.24 | -22.76 | 46 | 30.31 | 20.46 | 2.91 | 30.44 | - | - | Peak |
| 780.9 | 24.72 | -21.28 | 46 | 30.1 | 21.81 | 3.11 | 30.3 | - | - | Peak |
| 2336 | 32.83 | -21.17 | 54 | 28.84 | 31.98 | 5.95 | 33.94 | 100 | 70 | Average |
| 2336 | 44.87 | -29.13 | 74 | 40.88 | 31.98 | 5.95 | 33.94 | 100 | 70 | Peak |
| 2462 | 94.94 | - | - | 90.64 | 32.15 | 6.14 | 33.99 | 100 | 70 | Average |
| 2462 | 105.3 | - | - | 101 | 32.15 | 6.14 | 33.99 | 100 | 70 | Peak |
| 2483.85 | 42.9 | -11.1 | 54 | 38.54 | 32.18 | 6.18 | 34 | 100 | 70 | Average |
| 2483.85 | 66.59 | -7.41 | 74 | 62.23 | 32.18 | 6.18 | 34 | 100 | 70 | Peak |

<Qwerty Keypad with Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 14 | Temperature : | 24~25°C |
| Test Channel : | 01 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2412 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.81 | 23.09 | -16.91 | 40 | 35.14 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 181.2 | 31 | -12.5 | 43.5 | 52.03 | 8.91 | 1.25 | 31.19 | 100 | 96 | Peak |
| 246.81 | 21.52 | -24.48 | 46 | 38.76 | 12.4 | 1.53 | 31.17 | - | - | Peak |
| 395.2 | 20.21 | -25.79 | 46 | 33.68 | 15.87 | 2.13 | 31.47 | - | - | Peak |
| 740.3 | 23.52 | -22.48 | 46 | 29.8 | 21.2 | 3.04 | 30.52 | - | - | Peak |
| 897.8 | 29.23 | -16.77 | 46 | 33.63 | 23.08 | 3.34 | 30.82 | - | - | Peak |
| 2389.99 | 48.89 | -5.11 | 54 | 44.76 | 32.06 | 6.03 | 33.96 | 100 | 270 | Average |
| 2389.99 | 71.8 | -2.2 | 74 | 67.67 | 32.06 | 6.03 | 33.96 | 100 | 270 | Peak |
| 2412 | 97.51 | - | - | 93.33 | 32.08 | 6.07 | 33.97 | 100 | 270 | Average |
| 2412 | 108.02 | - | - | 103.84 | 32.08 | 6.07 | 33.97 | 100 | 270 | Peak |
| 2486 | 34.7 | -19.3 | 54 | 30.34 | 32.18 | 6.18 | 34 | 100 | 270 | Average |
| 2486 | 47.26 | -26.74 | 74 | 42.9 | 32.18 | 6.18 | 34 | 100 | 270 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 14 | Temperature : | 24~25°C |
| Test Channel : | 01 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2412 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 32.48 | -7.52 | 40 | 43.82 | 20 | 0.53 | 31.87 | 100 | 51 | Peak |
| 180.66 | 31.68 | -11.82 | 43.5 | 52.72 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 229.8 | 23.84 | -22.16 | 46 | 42.38 | 11.19 | 1.48 | 31.21 | - | - | Peak |
| 324.5 | 18.64 | -27.36 | 46 | 34.01 | 13.98 | 1.83 | 31.18 | - | - | Peak |
| 659.1 | 22.76 | -23.24 | 46 | 30.01 | 20.27 | 2.86 | 30.38 | - | - | Peak |
| 904.8 | 25.22 | -20.78 | 46 | 29.53 | 23.17 | 3.35 | 30.83 | - | - | Peak |
| 2389.99 | 43.75 | -10.25 | 54 | 39.62 | 32.06 | 6.03 | 33.96 | 100 | 60 | Average |
| 2389.99 | 66.67 | -7.33 | 74 | 62.54 | 32.06 | 6.03 | 33.96 | 100 | 60 | Peak |
| 2412 | 88.55 | - | - | 84.37 | 32.08 | 6.07 | 33.97 | 100 | 60 | Average |
| 2412 | 103.7 | - | - | 99.52 | 32.08 | 6.07 | 33.97 | 100 | 60 | Peak |
| 2484 | 33.9 | -20.1 | 54 | 29.54 | 32.18 | 6.18 | 34 | 100 | 60 | Average |
| 2484 | 46.19 | -27.81 | 74 | 41.83 | 32.18 | 6.18 | 34 | 100 | 60 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 15 | Temperature : | 24~25°C |
| Test Channel : | 06 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2437 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.81 | 24.16 | -15.84 | 40 | 36.21 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 181.2 | 30.88 | -12.62 | 43.5 | 51.91 | 8.91 | 1.25 | 31.19 | 100 | 58 | Peak |
| 246.27 | 21.38 | -24.62 | 46 | 38.7 | 12.33 | 1.53 | 31.18 | - | - | Peak |
| 319.6 | 19.57 | -26.43 | 46 | 35.03 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 676.6 | 22.19 | -23.81 | 46 | 29.32 | 20.41 | 2.89 | 30.43 | - | - | Peak |
| 780.2 | 24.47 | -21.53 | 46 | 29.88 | 21.79 | 3.11 | 30.31 | - | - | Peak |
| 1918 | 50.47 | -23.53 | 74 | 48.12 | 30.87 | 5.28 | 33.8 | 121 | 91 | Peak |
| 2388 | 39.3 | -14.7 | 54 | 35.17 | 32.06 | 6.03 | 33.96 | 121 | 91 | Average |
| 2388 | 59.82 | -14.18 | 74 | 55.69 | 32.06 | 6.03 | 33.96 | 121 | 91 | Peak |
| 2437 | 102.75 | - | - | 98.49 | 32.13 | 6.11 | 33.98 | 121 | 91 | Average |
| 2437 | 113.15 | - | - | 108.89 | 32.13 | 6.11 | 33.98 | 121 | 91 | Peak |
| 2484 | 41.07 | -12.93 | 54 | 36.71 | 32.18 | 6.18 | 34 | 121 | 91 | Average |
| 2484 | 58.48 | -15.52 | 74 | 54.12 | 32.18 | 6.18 | 34 | 121 | 91 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 15 | Temperature : | 24~25°C |
| Test Channel : | 06 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2437 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 32.79 | -7.21 | 40 | 44.13 | 20 | 0.53 | 31.87 | 100 | 18 | Peak |
| 138.27 | 30.03 | -13.47 | 43.5 | 48.89 | 11.42 | 1.2 | 31.48 | - | - | Peak |
| 181.2 | 31.43 | -12.07 | 43.5 | 52.46 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 320.3 | 19.08 | -26.92 | 46 | 34.54 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 715.8 | 22.87 | -23.13 | 46 | 29.56 | 20.83 | 2.98 | 30.5 | - | - | Peak |
| 956.6 | 25.47 | -20.53 | 46 | 28.84 | 23.94 | 3.47 | 30.78 | - | - | Peak |
| 2390 | 38.9 | -15.1 | 54 | 34.77 | 32.06 | 6.03 | 33.96 | 100 | 67 | Average |
| 2390 | 54.58 | -19.42 | 74 | 50.45 | 32.06 | 6.03 | 33.96 | 100 | 67 | Peak |
| 2437 | 98.75 | - | - | 94.49 | 32.13 | 6.11 | 33.98 | 100 | 67 | Average |
| 2437 | 109.06 | - | - | 104.83 | 32.1 | 6.11 | 33.98 | 100 | 67 | Peak |
| 2484 | 39.15 | -14.85 | 54 | 34.79 | 32.18 | 6.18 | 34 | 100 | 67 | Average |
| 2484 | 57.01 | -16.99 | 74 | 52.65 | 32.18 | 6.18 | 34 | 100 | 67 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 16 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 24.01 | -15.99 | 40 | 35.35 | 20 | 0.53 | 31.87 | - | - | Peak |
| 181.2 | 30.88 | -12.62 | 43.5 | 51.91 | 8.91 | 1.25 | 31.19 | 100 | 71 | Peak |
| 246.27 | 21.88 | -24.12 | 46 | 39.2 | 12.33 | 1.53 | 31.18 | - | - | Peak |
| 385.4 | 19.03 | -26.97 | 46 | 32.66 | 15.61 | 2.11 | 31.35 | - | - | Peak |
| 700.4 | 24.3 | -21.7 | 46 | 31.25 | 20.6 | 2.94 | 30.49 | - | - | Peak |
| 845.3 | 24.64 | -21.36 | 46 | 29.32 | 22.56 | 3.26 | 30.5 | - | - | Peak |
| 2378 | 33.1 | -20.9 | 54 | 29.03 | 32.03 | 5.99 | 33.95 | 200 | 224 | Average |
| 2378 | 44.88 | -29.12 | 74 | 40.81 | 32.03 | 5.99 | 33.95 | 200 | 224 | Peak |
| 2462 | 97.43 | - | - | 93.13 | 32.15 | 6.14 | 33.99 | 200 | 224 | Average |
| 2462 | 107.88 | - | - | 103.58 | 32.15 | 6.14 | 33.99 | 200 | 224 | Peak |
| 2483.5 | 45.48 | -8.52 | 54 | 41.12 | 32.18 | 6.18 | 34 | 200 | 224 | Average |
| 2483.5 | 66.43 | -7.57 | 74 | 62.07 | 32.18 | 6.18 | 34 | 200 | 224 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 16 | Temperature : | 24~25°C |
| Test Channel : | 11 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.81 | 32.63 | -7.37 | 40 | 44.68 | 19.28 | 0.54 | 31.87 | 100 | 55 | Peak |
| 108.84 | 30.73 | -12.77 | 43.5 | 50.82 | 10.61 | 1.04 | 31.74 | - | - | Peak |
| 181.2 | 31.6 | -11.9 | 43.5 | 52.63 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 485.5 | 19.28 | -26.72 | 46 | 30.02 | 17.8 | 2.4 | 30.94 | - | - | Peak |
| 636.7 | 22.41 | -23.59 | 46 | 29.92 | 20.09 | 2.8 | 30.4 | - | - | Peak |
| 821.5 | 25.04 | -20.96 | 46 | 29.85 | 22.31 | 3.2 | 30.32 | - | - | Peak |
| 2352 | 32.83 | -21.17 | 54 | 28.81 | 32.01 | 5.95 | 33.94 | 100 | 274 | Average |
| 2352 | 44.51 | -29.49 | 74 | 40.49 | 32.01 | 5.95 | 33.94 | 100 | 274 | Peak |
| 2462 | 94.34 | - | - | 90.04 | 32.15 | 6.14 | 33.99 | 100 | 274 | Average |
| 2462 | 104.73 | - | - | 100.43 | 32.15 | 6.14 | 33.99 | 100 | 274 | Peak |
| 2483.5 | 43.77 | -10.23 | 54 | 39.41 | 32.18 | 6.18 | 34 | 100 | 274 | Average |
| 2483.5 | 64.87 | -9.13 | 74 | 60.51 | 32.18 | 6.18 | 34 | 100 | 274 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 17 | Temperature : | 24~25°C |
| Test Channel : | 12 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2467 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2356 | 33.57 | -20.43 | 54 | 29.55 | 32.01 | 5.95 | 33.94 | 120 | 90 | Average |
| 2356 | 45.24 | -28.76 | 74 | 41.22 | 32.01 | 5.95 | 33.94 | 120 | 90 | Peak |
| 2467 | 94.19 | - | - | 89.89 | 32.15 | 6.14 | 33.99 | 120 | 90 | Average |
| 2467 | 104.14 | - | - | 99.84 | 32.15 | 6.14 | 33.99 | 120 | 90 | Peak |
| 2483.5 | 49.16 | -4.84 | 54 | 44.8 | 32.18 | 6.18 | 34 | 120 | 90 | Average |
| 2483.5 | 68.67 | -5.33 | 74 | 64.31 | 32.18 | 6.18 | 34 | 120 | 90 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 17 | Temperature : | 24~25°C |
| Test Channel : | 12 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2467 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2330 | 33.04 | -20.96 | 54 | 29.09 | 31.96 | 5.92 | 33.93 | 100 | 66 | Average |
| 2330 | 44.85 | -29.15 | 74 | 40.9 | 31.96 | 5.92 | 33.93 | 100 | 66 | Peak |
| 2467 | 90.81 | - | - | 86.51 | 32.15 | 6.14 | 33.99 | 100 | 66 | Average |
| 2467 | 101.01 | - | - | 96.71 | 32.15 | 6.14 | 33.99 | 100 | 66 | Peak |
| 2483.5 | 46.5 | -7.5 | 54 | 42.14 | 32.18 | 6.18 | 34 | 100 | 66 | Average |
| 2483.5 | 66.6 | -7.4 | 74 | 62.24 | 32.18 | 6.18 | 34 | 100 | 66 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 18 | Temperature : | 24~25°C |
| Test Channel : | 13 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 2472 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2382 | 33.04 | -20.96 | 54 | 28.94 | 32.03 | 6.03 | 33.96 | 198 | 351 | Average |
| 2382 | 45.45 | -28.55 | 74 | 41.35 | 32.03 | 6.03 | 33.96 | 198 | 351 | Peak |
| 2472 | 80.71 | - | - | 76.38 | 32.18 | 6.14 | 33.99 | 198 | 351 | Average |
| 2472 | 91.37 | - | - | 87.04 | 32.18 | 6.14 | 33.99 | 198 | 351 | Peak |
| 2483.5 | 45.28 | -8.72 | 54 | 40.92 | 32.18 | 6.18 | 34 | 198 | 351 | Average |
| 2483.5 | 70.65 | -3.35 | 74 | 66.29 | 32.18 | 6.18 | 34 | 198 | 351 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 18 | Temperature : | 24~25°C |
| Test Channel : | 13 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 2472 MHz is fundamental signal which can be ignored. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2344 | 32.95 | -21.05 | 54 | 28.96 | 31.98 | 5.95 | 33.94 | 100 | 68 | Average |
| 2344 | 44.74 | -29.26 | 74 | 40.75 | 31.98 | 5.95 | 33.94 | 100 | 68 | Peak |
| 2472 | 76.91 | - | - | 72.58 | 32.18 | 6.14 | 33.99 | 100 | 68 | Average |
| 2472 | 87.15 | - | - | 82.82 | 32.18 | 6.14 | 33.99 | 100 | 68 | Peak |
| 2483.85 | 41.18 | -12.82 | 54 | 36.82 | 32.18 | 6.18 | 34 | 100 | 68 | Average |
| 2483.85 | 65.6 | -8.4 | 74 | 61.24 | 32.18 | 6.18 | 34 | 100 | 68 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 19 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands, and its limit line is 20dB below the highest emission level. For example, 111.47 dBuV/m - 20dB = 91.47 dBuV/m. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 23.34 | -16.66 | 40 | 34.68 | 20 | 0.53 | 31.87 | - | - | Peak |
| 180.66 | 31.09 | -12.41 | 43.5 | 52.13 | 8.9 | 1.25 | 31.19 | 100 | 29 | Peak |
| 246.27 | 21.78 | -24.22 | 46 | 39.1 | 12.33 | 1.53 | 31.18 | - | - | Peak |
| 320.3 | 19.96 | -26.04 | 46 | 35.42 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 681.5 | 22.44 | -23.56 | 46 | 29.53 | 20.45 | 2.9 | 30.44 | - | - | Peak |
| 792.8 | 24.45 | -21.55 | 46 | 29.55 | 21.98 | 3.13 | 30.21 | - | - | Peak |
| 5725 | 80.45 | -11.02 | 91.47 | 68.98 | 34.81 | 9.92 | 33.26 | 100 | 57 | Peak |
| 5745 | 101.9 | - | - | 90.45 | 34.84 | 9.91 | 33.3 | 100 | 57 | Average |
| 5745 | 111.47 | - | - | 100.02 | 34.84 | 9.91 | 33.3 | 100 | 57 | Peak |
| 5850 | 51.68 | -39.79 | 91.47 | 40.29 | 34.98 | 9.87 | 33.46 | 100 | 57 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 19 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 32.94 | -7.06 | 40 | 44.28 | 20 | 0.53 | 31.87 | 100 | 28 | Peak |
| 181.74 | 31.57 | -11.93 | 43.5 | 52.62 | 8.91 | 1.25 | 31.21 | - | - | Peak |
| 228.72 | 23.77 | -22.23 | 46 | 42.39 | 11.12 | 1.47 | 31.21 | - | - | Peak |
| 486.9 | 19.86 | -26.14 | 46 | 30.57 | 17.82 | 2.4 | 30.93 | - | - | Peak |
| 639.5 | 22.03 | -23.97 | 46 | 29.5 | 20.11 | 2.81 | 30.39 | - | - | Peak |
| 796.3 | 25.42 | -20.58 | 46 | 30.44 | 22.04 | 3.13 | 30.19 | - | - | Peak |
| 5725 | 88.46 | -4.6 | 93.06 | 76.99 | 34.81 | 9.92 | 33.26 | 100 | 57 | Peak |
| 5745 | 101.97 | - | - | 90.52 | 34.84 | 9.91 | 33.3 | 100 | 57 | Average |
| 5745 | 113.06 | - | - | 101.61 | 34.84 | 9.91 | 33.3 | 100 | 57 | Peak |
| 5850 | 52.73 | -40.33 | 93.06 | 41.34 | 34.98 | 9.87 | 33.46 | 100 | 57 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 20 | Temperature : | 24~25°C |
| Test Channel : | 157 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5785 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 48.36 | 33.14 | -6.86 | 40 | 55.21 | 8.9 | 0.68 | 31.65 | 100 | 85 | Peak |
| 180.66 | 30.78 | -12.72 | 43.5 | 51.82 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 247.89 | 21.57 | -24.43 | 46 | 38.74 | 12.47 | 1.53 | 31.17 | - | - | Peak |
| 319.6 | 20.24 | -25.76 | 46 | 35.7 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 611.5 | 21.96 | -24.04 | 46 | 29.85 | 19.89 | 2.72 | 30.5 | - | - | Peak |
| 841.1 | 25.11 | -20.89 | 46 | 29.82 | 22.51 | 3.25 | 30.47 | - | - | Peak |
| 5725 | 55.05 | -33.01 | 88.06 | 43.58 | 34.81 | 9.92 | 33.26 | 100 | 342 | Peak |
| 5785 | 97.86 | - | - | 86.41 | 34.89 | 9.9 | 33.34 | 100 | 342 | Average |
| 5785 | 108.06 | - | - | 96.61 | 34.89 | 9.9 | 33.34 | 100 | 342 | Peak |
| 5850 | 53.78 | -34.28 | 88.06 | 42.39 | 34.98 | 9.87 | 33.46 | 100 | 342 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 20 | Temperature : | 24~25°C |
| Test Channel : | 157 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5785 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 33.35 | -6.65 | 40 | 45.4 | 19.28 | 0.54 | 31.87 | 105 | 168 | Peak |
| 181.2 | 31.77 | -11.73 | 43.5 | 52.8 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 229.53 | 23.89 | -22.11 | 46 | 42.43 | 11.19 | 1.48 | 31.21 | - | - | Peak |
| 314.7 | 18.38 | -27.62 | 46 | 34.02 | 13.72 | 1.8 | 31.16 | - | - | Peak |
| 755 | 23.93 | -22.07 | 46 | 29.93 | 21.42 | 3.07 | 30.49 | - | - | Peak |
| 865.6 | 24.9 | -21.1 | 46 | 29.49 | 22.75 | 3.29 | 30.63 | - | - | Peak |
| 5725 | 56.25 | -37.16 | 93.41 | 44.78 | 34.81 | 9.92 | 33.26 | 128 | 347 | Peak |
| 5785 | 103.01 | - | - | 91.56 | 34.89 | 9.9 | 33.34 | 128 | 347 | Average |
| 5785 | 113.41 | - | - | 101.96 | 34.89 | 9.9 | 33.34 | 128 | 347 | Peak |
| 5850 | 56.81 | -36.6 | 93.41 | 45.42 | 34.98 | 9.87 | 33.46 | 128 | 347 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 21 | Temperature : | 24~25°C |
| Test Channel : | 165 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5825 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.81 | 21.09 | -18.91 | 40 | 33.14 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 145.02 | 19.73 | -23.77 | 43.5 | 38.65 | 11.29 | 1.21 | 31.42 | - | - | Peak |
| 180.66 | 30.92 | -12.58 | 43.5 | 51.96 | 8.9 | 1.25 | 31.19 | 100 | 58 | Peak |
| 319.6 | 20.68 | -25.32 | 46 | 36.14 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 609.4 | 22.09 | -23.91 | 46 | 30.01 | 19.87 | 2.72 | 30.51 | - | - | Peak |
| 804 | 24.5 | -21.5 | 46 | 29.4 | 22.14 | 3.15 | 30.19 | - | - | Peak |
| 5725 | 52.46 | -34.82 | 87.28 | 40.99 | 34.81 | 9.92 | 33.26 | 100 | 342 | Peak |
| 5825 | 96.81 | - | - | 85.39 | 34.96 | 9.88 | 33.42 | 100 | 342 | Average |
| 5825 | 107.28 | - | - | 95.86 | 34.96 | 9.88 | 33.42 | 100 | 342 | Peak |
| 5850 | 69.78 | -17.5 | 87.28 | 58.36 | 34.96 | 9.88 | 33.42 | 100 | 342 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 21 | Temperature : | 24~25°C |
| Test Channel : | 165 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5825 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 32.71 | -7.29 | 40 | 44.76 | 19.28 | 0.54 | 31.87 | 105 | 185 | Peak |
| 137.19 | 30.43 | -13.07 | 43.5 | 49.29 | 11.44 | 1.19 | 31.49 | - | - | Peak |
| 180.66 | 31.73 | -11.77 | 43.5 | 52.77 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 442.1 | 18.61 | -27.39 | 46 | 30.57 | 16.89 | 2.28 | 31.13 | - | - | Peak |
| 589.8 | 22.23 | -23.77 | 46 | 30.63 | 19.62 | 2.66 | 30.68 | - | - | Peak |
| 703.9 | 22.74 | -23.26 | 46 | 29.62 | 20.66 | 2.95 | 30.49 | - | - | Peak |
| 5725 | 53.61 | -39.4 | 93.01 | 42.14 | 34.81 | 9.92 | 33.26 | 127 | 11 | Peak |
| 5825 | 103 | - | - | 91.58 | 34.96 | 9.88 | 33.42 | 127 | 11 | Average |
| 5825 | 113.01 | - | - | 101.59 | 34.96 | 9.88 | 33.42 | 127 | 11 | Peak |
| 5850 | 75.62 | -17.39 | 93.01 | 64.23 | 34.98 | 9.87 | 33.46 | 127 | 11 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 22 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 20.73 | -19.27 | 40 | 32.07 | 20 | 0.53 | 31.87 | - | - | Peak |
| 181.2 | 30.87 | -12.63 | 43.5 | 51.9 | 8.91 | 1.25 | 31.19 | 100 | 58 | Peak |
| 248.16 | 21.95 | -24.05 | 46 | 39.12 | 12.47 | 1.53 | 31.17 | - | - | Peak |
| 318.9 | 20 | -26 | 46 | 35.5 | 13.82 | 1.81 | 31.13 | - | - | Peak |
| 476.4 | 20.24 | -25.76 | 46 | 31.26 | 17.6 | 2.37 | 30.99 | - | - | Peak |
| 720.7 | 22.65 | -23.35 | 46 | 29.26 | 20.91 | 2.99 | 30.51 | - | - | Peak |
| 5725 | 83.27 | -4.45 | 87.72 | 71.8 | 34.81 | 9.92 | 33.26 | 101 | 343 | Peak |
| 5745 | 97.56 | - | - | 86.11 | 34.84 | 9.91 | 33.3 | 101 | 343 | Average |
| 5745 | 107.72 | - | - | 96.27 | 34.84 | 9.91 | 33.3 | 101 | 343 | Peak |
| 5850 | 52.17 | -35.55 | 87.72 | 40.78 | 34.98 | 9.87 | 33.46 | 101 | 343 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 22 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 33.37 | -6.63 | 40 | 44.71 | 20 | 0.53 | 31.87 | 106 | 167 | Peak |
| 137.46 | 30.75 | -12.75 | 43.5 | 49.61 | 11.44 | 1.19 | 31.49 | - | - | Peak |
| 181.2 | 31.57 | -11.93 | 43.5 | 52.6 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 436.5 | 18.24 | -27.76 | 46 | 30.35 | 16.77 | 2.27 | 31.15 | - | - | Peak |
| 680.8 | 22.41 | -23.59 | 46 | 29.51 | 20.44 | 2.9 | 30.44 | - | - | Peak |
| 864.2 | 25.21 | -20.79 | 46 | 29.8 | 22.74 | 3.29 | 30.62 | - | - | Peak |
| 5725 | 91.99 | -2.15 | 94.14 | 80.52 | 34.81 | 9.92 | 33.26 | 129 | 5 | Peak |
| 5745 | 103.61 | - | - | 92.16 | 34.84 | 9.91 | 33.3 | 129 | 5 | Average |
| 5745 | 114.14 | - | - | 102.69 | 34.84 | 9.91 | 33.3 | 129 | 5 | Peak |
| 5850 | 53.03 | -41.11 | 94.14 | 41.64 | 34.98 | 9.87 | 33.46 | 129 | 5 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 23 | Temperature : | 24~25°C |
| Test Channel : | 157 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5785 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 21.51 | -18.49 | 40 | 33.56 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 180.66 | 30.91 | -12.59 | 43.5 | 51.95 | 8.9 | 1.25 | 31.19 | 100 | 52 | Peak |
| 247.35 | 22.22 | -23.78 | 46 | 39.46 | 12.4 | 1.53 | 31.17 | - | - | Peak |
| 320.3 | 20.02 | -25.98 | 46 | 35.48 | 13.85 | 1.81 | 31.12 | - | - | Peak |
| 594.7 | 21.71 | -24.29 | 46 | 29.95 | 19.7 | 2.67 | 30.61 | - | - | Peak |
| 897.8 | 28.12 | -17.88 | 46 | 32.52 | 23.08 | 3.34 | 30.82 | - | - | Peak |
| 5725 | 55.5 | -33.07 | 88.57 | 44.03 | 34.81 | 9.92 | 33.26 | 112 | 341 | Peak |
| 5785 | 98.37 | - | - | 86.92 | 34.89 | 9.9 | 33.34 | 112 | 341 | Average |
| 5785 | 108.57 | - | - | 97.12 | 34.89 | 9.9 | 33.34 | 112 | 341 | Peak |
| 5850 | 53.49 | -35.08 | 88.57 | 42.1 | 34.98 | 9.87 | 33.46 | 112 | 341 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 23 | Temperature : | 24~25°C |
| Test Channel : | 157 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5785 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 33.24 | -6.76 | 40 | 44.58 | 20 | 0.53 | 31.87 | 100 | 87 | Peak |
| 132.33 | 30.68 | -12.82 | 43.5 | 49.51 | 11.56 | 1.16 | 31.55 | - | - | Peak |
| 181.2 | 31.82 | -11.68 | 43.5 | 52.85 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 479.9 | 19.14 | -26.86 | 46 | 30.03 | 17.68 | 2.38 | 30.95 | - | - | Peak |
| 666.8 | 22.39 | -23.61 | 46 | 29.59 | 20.33 | 2.87 | 30.4 | - | - | Peak |
| 885.2 | 25.61 | -20.39 | 46 | 30.08 | 22.95 | 3.32 | 30.74 | - | - | Peak |
| 5725 | 60.51 | -33.1 | 93.61 | 49.04 | 34.81 | 9.92 | 33.26 | 128 | 347 | Peak |
| 5785 | 103.08 | - | - | 91.63 | 34.89 | 9.9 | 33.34 | 128 | 347 | Average |
| 5785 | 113.61 | - | - | 102.16 | 34.89 | 9.9 | 33.34 | 128 | 347 | Peak |
| 5850 | 57.65 | -35.96 | 93.61 | 46.26 | 34.98 | 9.87 | 33.46 | 128 | 347 | Peak |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 24 | Temperature : | 24~25°C |
| Test Channel : | 165 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5825 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 21.31 | -18.69 | 40 | 33.36 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 143.94 | 19.06 | -24.44 | 43.5 | 37.96 | 11.33 | 1.2 | 31.43 | - | - | Peak |
| 181.2 | 31 | -12.5 | 43.5 | 52.03 | 8.91 | 1.25 | 31.19 | 115 | 187 | Peak |
| 607.3 | 21.96 | -24.04 | 46 | 29.91 | 19.85 | 2.71 | 30.51 | - | - | Peak |
| 645.8 | 22.9 | -23.1 | 46 | 30.27 | 20.17 | 2.83 | 30.37 | - | - | Peak |
| 748 | 23.8 | -22.2 | 46 | 29.96 | 21.31 | 3.06 | 30.53 | - | - | Peak |
| 5725 | 54.2 | -34.95 | 89.15 | 42.73 | 34.81 | 9.92 | 33.26 | 103 | 307 | Peak |
| 5825 | 98.75 | - | - | 87.33 | 34.96 | 9.88 | 33.42 | 103 | 307 | Average |
| 5825 | 109.15 | - | - | 97.73 | 34.96 | 9.88 | 33.42 | 103 | 307 | Peak |
| 5850 | 80.27 | -8.88 | 89.15 | 68.88 | 34.98 | 9.87 | 33.46 | 103 | 307 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 24 | Temperature : | 24~25°C |
| Test Channel : | 165 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5825 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 33.52 | -6.48 | 40 | 44.86 | 20 | 0.53 | 31.87 | 105 | 204 | Peak |
| 131.79 | 30.39 | -13.11 | 43.5 | 49.22 | 11.56 | 1.16 | 31.55 | - | - | Peak |
| 181.74 | 31.57 | -11.93 | 43.5 | 52.62 | 8.91 | 1.25 | 31.21 | - | - | Peak |
| 618.5 | 21.43 | -24.57 | 46 | 29.2 | 19.95 | 2.75 | 30.47 | - | - | Peak |
| 686.4 | 22.37 | -23.63 | 46 | 29.42 | 20.49 | 2.91 | 30.45 | - | - | Peak |
| 785.8 | 23.93 | -22.07 | 46 | 29.19 | 21.88 | 3.12 | 30.26 | - | - | Peak |
| 5725 | 54.16 | -39.22 | 93.38 | 42.69 | 34.81 | 9.92 | 33.26 | 139 | 1 | Peak |
| 5825 | 103.01 | - | - | 91.59 | 34.96 | 9.88 | 33.42 | 139 | 1 | Average |
| 5825 | 113.38 | - | - | 101.96 | 34.96 | 9.88 | 33.42 | 139 | 1 | Peak |
| 5850 | 83.48 | -9.9 | 93.38 | 72.09 | 34.98 | 9.87 | 33.46 | 139 | 1 | Peak |

<Numeric Keypad with Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 25 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 21.52 | -18.48 | 40 | 32.86 | 20 | 0.53 | 31.87 | - | - | Peak |
| 172.56 | 25.89 | -17.61 | 43.5 | 46.61 | 9.29 | 1.24 | 31.25 | - | - | Peak |
| 181.2 | 30.95 | -12.55 | 43.5 | 51.98 | 8.91 | 1.25 | 31.19 | 106 | 145 | Peak |
| 652.8 | 22.12 | -23.88 | 46 | 29.41 | 20.22 | 2.85 | 30.36 | - | - | Peak |
| 709.5 | 23.48 | -22.52 | 46 | 30.27 | 20.75 | 2.96 | 30.5 | - | - | Peak |
| 782.3 | 24.14 | -21.86 | 46 | 29.48 | 21.84 | 3.11 | 30.29 | - | - | Peak |
| 5725 | 84.87 | -3.31 | 88.18 | 73.4 | 34.81 | 9.92 | 33.26 | 107 | 206 | Peak |
| 5745 | 97.59 | - | - | 86.14 | 34.84 | 9.91 | 33.3 | 107 | 206 | Average |
| 5745 | 108.18 | - | - | 96.73 | 34.84 | 9.91 | 33.3 | 107 | 206 | Peak |
| 5850 | 52.33 | -35.85 | 88.18 | 40.94 | 34.98 | 9.87 | 33.46 | 107 | 206 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 25 | Temperature : | 24~25°C |
| Test Channel : | 151 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 33.9 | -6.1 | 40 | 45.24 | 20 | 0.53 | 31.87 | 103 | 211 | Peak |
| 132.33 | 30.53 | -12.97 | 43.5 | 49.36 | 11.56 | 1.16 | 31.55 | - | - | Peak |
| 181.2 | 31.67 | -11.83 | 43.5 | 52.7 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 647.9 | 22.08 | -23.92 | 46 | 29.43 | 20.18 | 2.83 | 30.36 | - | - | Peak |
| 746.6 | 22.84 | -23.16 | 46 | 29.02 | 21.3 | 3.05 | 30.53 | - | - | Peak |
| 793.5 | 24.61 | -21.39 | 46 | 29.69 | 22 | 3.13 | 30.21 | - | - | Peak |
| 5725 | 90.34 | -2.02 | 92.36 | 78.87 | 34.81 | 9.92 | 33.26 | 115 | 3 | Peak |
| 5745 | 101.47 | - | - | 90.02 | 34.84 | 9.91 | 33.3 | 115 | 3 | Average |
| 5745 | 112.36 | - | - | 100.91 | 34.84 | 9.91 | 33.3 | 115 | 3 | Peak |
| 5850 | 52.5 | -39.86 | 92.36 | 41.11 | 34.98 | 9.87 | 33.46 | 115 | 3 | Peak |

<PIM Keypad with Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 26 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 20.26 | -19.74 | 40 | 32.31 | 19.28 | 0.54 | 31.87 | - | - | Peak |
| 172.02 | 25.76 | -17.74 | 43.5 | 46.41 | 9.38 | 1.23 | 31.26 | - | - | Peak |
| 181.2 | 30.88 | -12.62 | 43.5 | 51.91 | 8.91 | 1.25 | 31.19 | 112 | 168 | Peak |
| 619.2 | 22.1 | -23.9 | 46 | 29.87 | 19.95 | 2.75 | 30.47 | - | - | Peak |
| 711.6 | 22.64 | -23.36 | 46 | 29.4 | 20.77 | 2.97 | 30.5 | - | - | Peak |
| 786.5 | 23.69 | -22.31 | 46 | 28.93 | 21.9 | 3.12 | 30.26 | - | - | Peak |
| 5725 | 81.08 | -5.57 | 86.65 | 69.61 | 34.81 | 9.92 | 33.26 | 100 | 314 | Peak |
| 5745 | 96.4 | - | - | 84.95 | 34.84 | 9.91 | 33.3 | 100 | 314 | Average |
| 5745 | 106.65 | - | - | 95.2 | 34.84 | 9.91 | 33.3 | 100 | 314 | Peak |
| 5850 | 51.87 | -34.78 | 86.65 | 40.48 | 34.98 | 9.87 | 33.46 | 100 | 314 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 26 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 33.79 | -6.21 | 40 | 45.13 | 20 | 0.53 | 31.87 | 106 | 224 | Peak |
| 106.68 | 27.8 | -15.7 | 43.5 | 48.06 | 10.43 | 1.03 | 31.72 | - | - | Peak |
| 180.66 | 31.47 | -12.03 | 43.5 | 52.51 | 8.9 | 1.25 | 31.19 | - | - | Peak |
| 698.3 | 22.45 | -23.55 | 46 | 29.41 | 20.58 | 2.94 | 30.48 | - | - | Peak |
| 769 | 23.14 | -22.86 | 46 | 28.81 | 21.63 | 3.09 | 30.39 | - | - | Peak |
| 801.9 | 24.28 | -21.72 | 46 | 29.19 | 22.12 | 3.15 | 30.18 | - | - | Peak |
| 5725 | 85.52 | -3.31 | 88.83 | 74.05 | 34.81 | 9.92 | 33.26 | 156 | 22 | Peak |
| 5745 | 97.75 | - | - | 86.3 | 34.84 | 9.91 | 33.3 | 156 | 22 | Average |
| 5745 | 108.83 | - | - | 97.38 | 34.84 | 9.91 | 33.3 | 156 | 22 | Peak |
| 5850 | 50.89 | -37.94 | 88.83 | 39.5 | 34.98 | 9.87 | 33.46 | 156 | 22 | Peak |

<Qwerty Keypad without Camera>

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 27 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Horizontal |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 31.62 | 20.6 | -19.4 | 40 | 33.36 | 18.56 | 0.55 | 31.87 | - | - | Peak |
| 172.29 | 25.61 | -17.89 | 43.5 | 46.34 | 9.29 | 1.24 | 31.26 | - | - | Peak |
| 181.2 | 31.01 | -12.49 | 43.5 | 52.04 | 8.91 | 1.25 | 31.19 | 101 | 209 | Peak |
| 616.4 | 22.45 | -23.55 | 46 | 30.26 | 19.93 | 2.74 | 30.48 | - | - | Peak |
| 701.8 | 23.01 | -22.99 | 46 | 29.93 | 20.63 | 2.94 | 30.49 | - | - | Peak |
| 770.4 | 23.25 | -22.75 | 46 | 28.89 | 21.65 | 3.09 | 30.38 | - | - | Peak |
| 5725 | 81.22 | -5.74 | 86.96 | 69.75 | 34.81 | 9.92 | 33.26 | 103 | 323 | Peak |
| 5745 | 95.96 | - | - | 84.51 | 34.84 | 9.91 | 33.3 | 103 | 323 | Average |
| 5745 | 106.96 | - | - | 95.51 | 34.84 | 9.91 | 33.3 | 103 | 323 | Peak |
| 5850 | 51.24 | -35.72 | 86.96 | 39.85 | 34.98 | 9.87 | 33.46 | 103 | 323 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 27 | Temperature : | 24~25°C |
| Test Channel : | 149 | Relative Humidity : | 42~43% |
| Test Engineer : | Gavin Wu | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is fundamental signal which can be ignored. 2. 5725 MHz and 5850 MHz are not within the restricted bands. | | |

| Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.27 | 33.51 | -6.49 | 40 | 44.85 | 20 | 0.53 | 31.87 | 108 | 225 | Peak |
| 131.25 | 30.27 | -13.23 | 43.5 | 49.1 | 11.58 | 1.15 | 31.56 | - | - | Peak |
| 181.2 | 31.47 | -12.03 | 43.5 | 52.5 | 8.91 | 1.25 | 31.19 | - | - | Peak |
| 628.3 | 22.07 | -23.93 | 46 | 29.69 | 20.03 | 2.78 | 30.43 | - | - | Peak |
| 679.4 | 22.13 | -23.87 | 46 | 29.23 | 20.43 | 2.9 | 30.43 | - | - | Peak |
| 752.9 | 23.84 | -22.16 | 46 | 29.9 | 21.39 | 3.06 | 30.51 | - | - | Peak |
| 5725 | 86.06 | -2.9 | 88.96 | 74.59 | 34.81 | 9.92 | 33.26 | 158 | 20 | Peak |
| 5745 | 98.62 | - | - | 87.17 | 34.84 | 9.91 | 33.3 | 158 | 20 | Average |
| 5745 | 108.96 | - | - | 97.51 | 34.84 | 9.91 | 33.3 | 158 | 20 | Peak |
| 5850 | 51.12 | -37.84 | 88.96 | 39.73 | 34.98 | 9.87 | 33.46 | 158 | 20 | Peak |

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 (dBuV) | |
|--------------------------------|------------------------|-----------|
| | Quasi-Peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

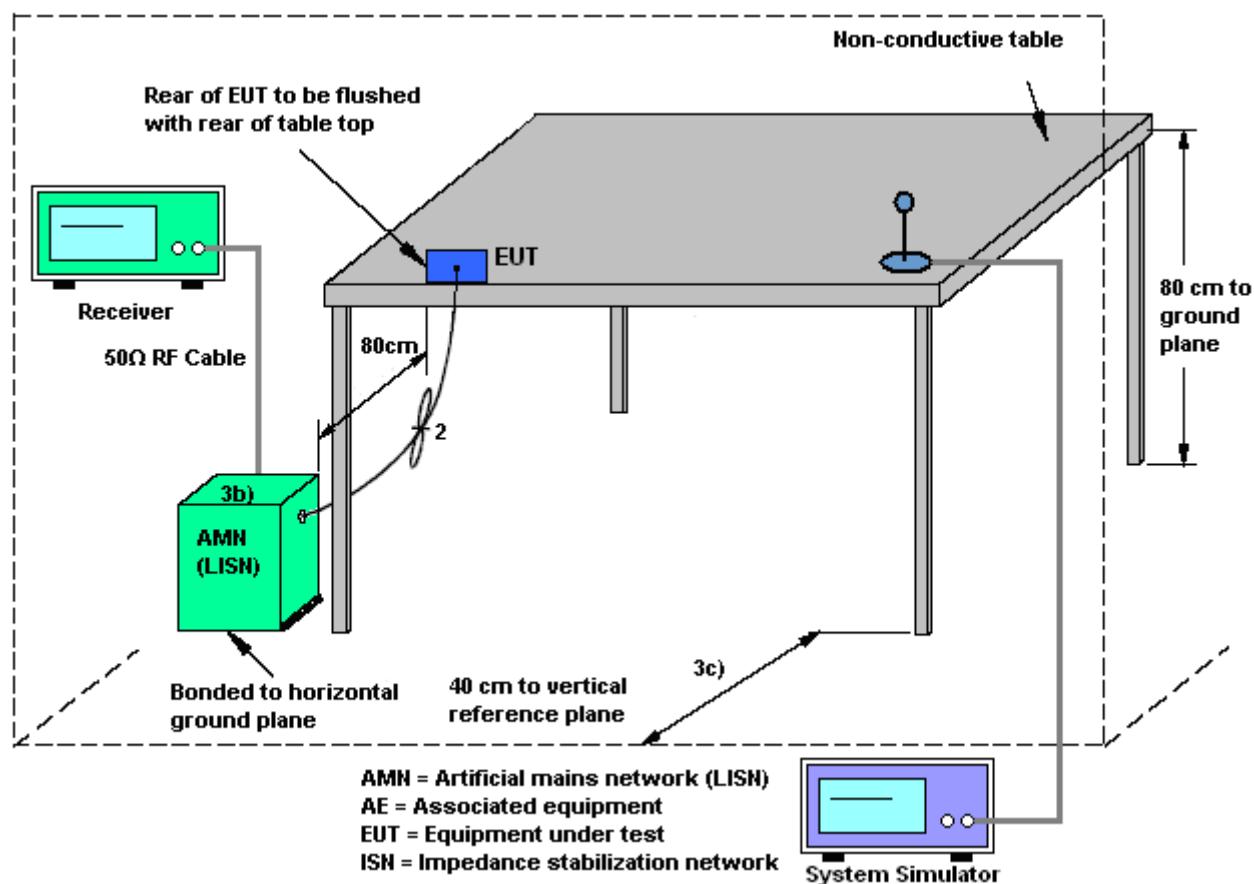
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

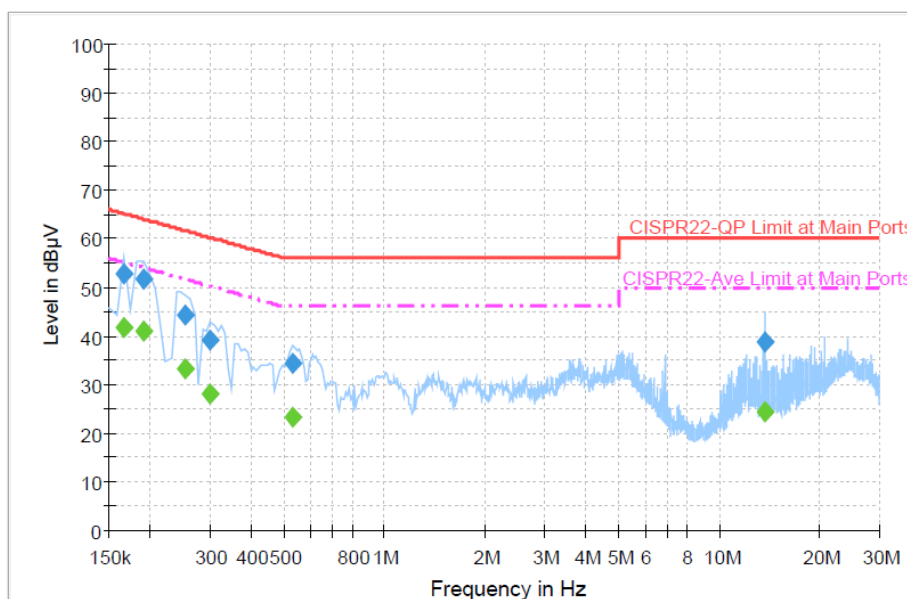
1. The testing follows the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 KHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

| | | | |
|------------------------|--|----------------------------|--------|
| Test Mode : | Mode 1 | Temperature : | 21~23℃ |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + WLAN (2.4G) Link + Bluetooth Link + GPS Rx + Qwerty Keypad with Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



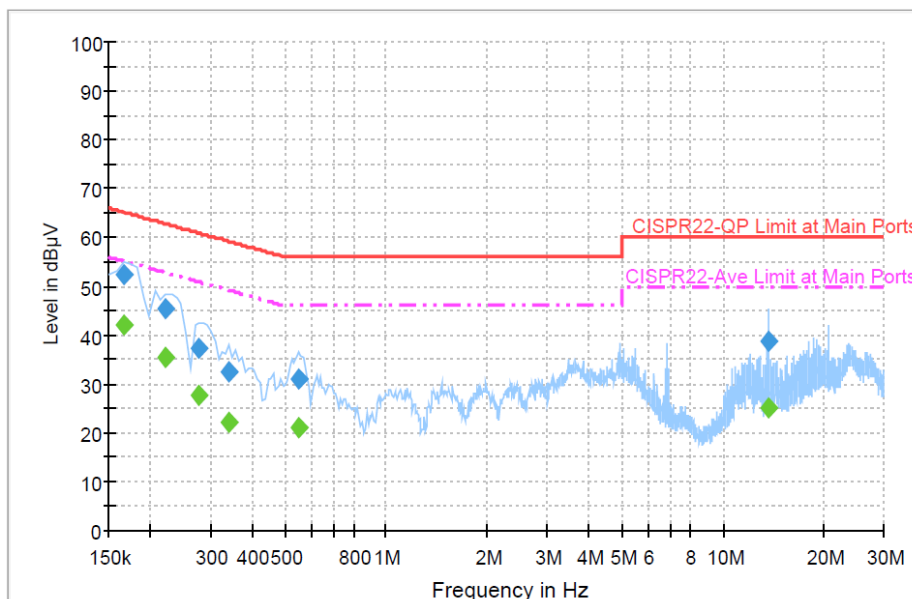
Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 52.8 | Off | L1 | 19.3 | 12.4 | 65.2 |
| 0.190000 | 51.7 | Off | L1 | 19.4 | 12.3 | 64.0 |
| 0.254000 | 44.3 | Off | L1 | 19.3 | 17.3 | 61.6 |
| 0.302000 | 39.0 | Off | L1 | 19.3 | 21.2 | 60.2 |
| 0.534000 | 34.4 | Off | L1 | 19.3 | 21.6 | 56.0 |
| 13.678000 | 38.6 | Off | L1 | 19.7 | 21.4 | 60.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 41.7 | Off | L1 | 19.3 | 13.5 | 55.2 |
| 0.190000 | 40.8 | Off | L1 | 19.4 | 13.2 | 54.0 |
| 0.254000 | 33.2 | Off | L1 | 19.3 | 18.4 | 51.6 |
| 0.302000 | 27.9 | Off | L1 | 19.3 | 22.3 | 50.2 |
| 0.534000 | 23.3 | Off | L1 | 19.3 | 22.7 | 46.0 |
| 13.678000 | 24.5 | Off | L1 | 19.7 | 25.5 | 50.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 21~23°C |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + WLAN (2.4G) Link + Bluetooth Link + GPS Rx + Qwerty Keypad with Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

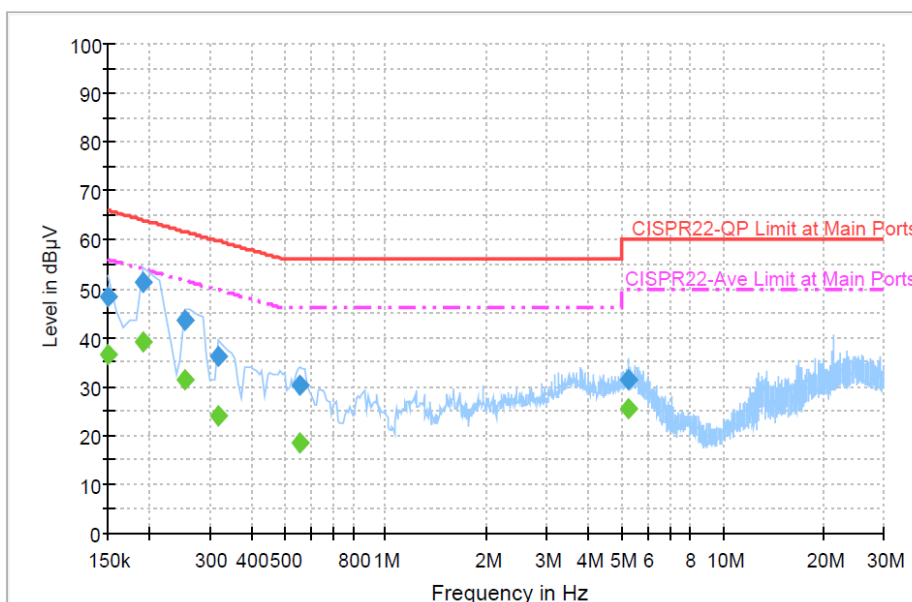

Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.166000 | 52.4 | Off | N | 19.3 | 12.8 | 65.2 |
| 0.222000 | 45.4 | Off | N | 19.3 | 17.3 | 62.7 |
| 0.278000 | 37.4 | Off | N | 19.3 | 23.5 | 60.9 |
| 0.342000 | 32.4 | Off | N | 19.3 | 26.8 | 59.2 |
| 0.550000 | 31.1 | Off | N | 19.3 | 24.9 | 56.0 |
| 13.678000 | 38.9 | Off | N | 19.7 | 21.1 | 60.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.166000 | 42.2 | Off | N | 19.3 | 13.0 | 55.2 |
| 0.222000 | 35.3 | Off | N | 19.3 | 17.4 | 52.7 |
| 0.278000 | 27.5 | Off | N | 19.3 | 23.4 | 50.9 |
| 0.342000 | 22.3 | Off | N | 19.3 | 26.9 | 49.2 |
| 0.550000 | 21.0 | Off | N | 19.3 | 25.0 | 46.0 |
| 13.678000 | 25.0 | Off | N | 19.7 | 25.0 | 50.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 2 | Temperature : | 21~23°C |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WCDMA Band V Idle + WLAN (2.4G) Link + Bluetooth Link + Camera + Numeric Keypad without Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

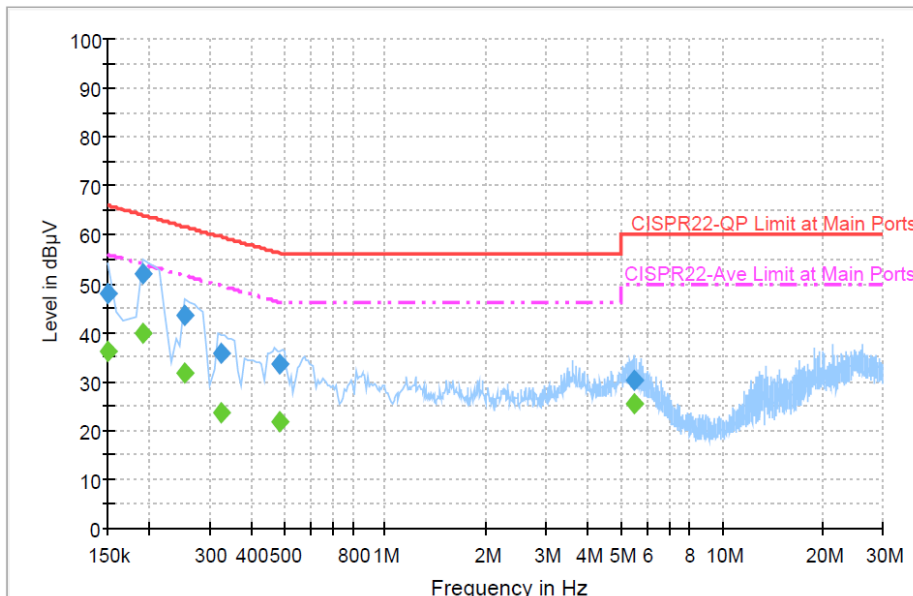

Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 48.3 | Off | L1 | 19.4 | 17.7 | 66.0 |
| 0.190000 | 51.4 | Off | L1 | 19.4 | 12.6 | 64.0 |
| 0.254000 | 43.5 | Off | L1 | 19.3 | 18.1 | 61.6 |
| 0.318000 | 36.2 | Off | L1 | 19.3 | 23.6 | 59.8 |
| 0.558000 | 30.2 | Off | L1 | 19.3 | 25.8 | 56.0 |
| 5.270000 | 31.2 | Off | L1 | 19.4 | 28.8 | 60.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 36.5 | Off | L1 | 19.4 | 19.5 | 56.0 |
| 0.190000 | 39.2 | Off | L1 | 19.4 | 14.8 | 54.0 |
| 0.254000 | 31.4 | Off | L1 | 19.3 | 20.2 | 51.6 |
| 0.318000 | 24.0 | Off | L1 | 19.3 | 25.8 | 49.8 |
| 0.558000 | 18.3 | Off | L1 | 19.3 | 27.7 | 46.0 |
| 5.270000 | 25.4 | Off | L1 | 19.4 | 24.6 | 50.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 2 | Temperature : | 21~23°C |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | WCDMA Band V Idle + WLAN (2.4G) Link + Bluetooth Link + Camera + Numeric Keypad without Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

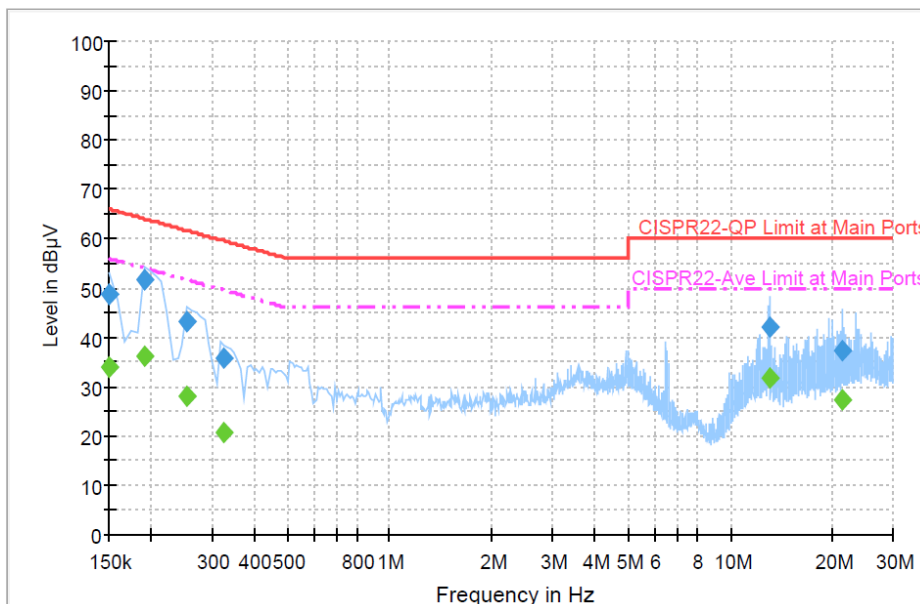

Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 48.1 | Off | N | 19.4 | 17.9 | 66.0 |
| 0.190000 | 52.0 | Off | N | 19.4 | 12.0 | 64.0 |
| 0.254000 | 43.7 | Off | N | 19.4 | 17.9 | 61.6 |
| 0.326000 | 35.7 | Off | N | 19.3 | 23.9 | 59.6 |
| 0.486000 | 33.6 | Off | N | 19.4 | 22.6 | 56.2 |
| 5.462000 | 30.3 | Off | N | 19.5 | 29.7 | 60.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 36.3 | Off | N | 19.4 | 19.7 | 56.0 |
| 0.190000 | 39.9 | Off | N | 19.4 | 14.1 | 54.0 |
| 0.254000 | 31.6 | Off | N | 19.4 | 20.0 | 51.6 |
| 0.326000 | 23.5 | Off | N | 19.3 | 26.1 | 49.6 |
| 0.486000 | 21.8 | Off | N | 19.4 | 24.4 | 46.2 |
| 5.462000 | 25.4 | Off | N | 19.5 | 24.6 | 50.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 3 | Temperature : | 21~23°C |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WCDMA Band II Idle + WLAN (2.4G) Link + Bluetooth Link + Scanner + PIM Keypad without Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

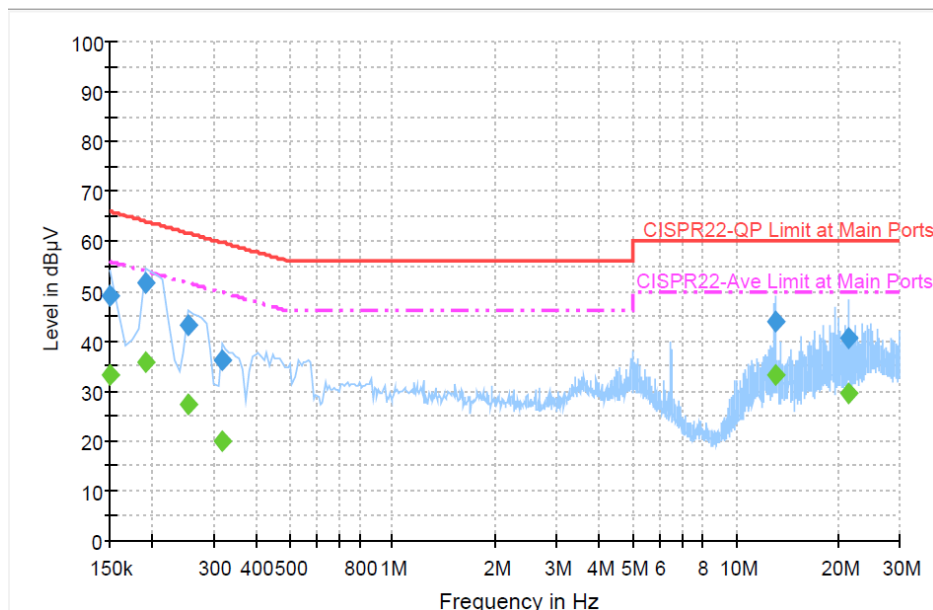

Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 48.6 | Off | L1 | 19.4 | 17.4 | 66.0 |
| 0.190000 | 51.5 | Off | L1 | 19.4 | 12.5 | 64.0 |
| 0.254000 | 43.1 | Off | L1 | 19.3 | 18.5 | 61.6 |
| 0.326000 | 35.8 | Off | L1 | 19.3 | 23.8 | 59.6 |
| 13.006000 | 42.0 | Off | L1 | 19.7 | 18.0 | 60.0 |
| 21.222000 | 37.3 | Off | L1 | 19.8 | 22.7 | 60.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 33.8 | Off | L1 | 19.4 | 22.2 | 56.0 |
| 0.190000 | 36.3 | Off | L1 | 19.4 | 17.7 | 54.0 |
| 0.254000 | 28.0 | Off | L1 | 19.3 | 23.6 | 51.6 |
| 0.326000 | 20.6 | Off | L1 | 19.3 | 29.0 | 49.6 |
| 13.006000 | 31.9 | Off | L1 | 19.7 | 18.1 | 50.0 |
| 21.222000 | 27.4 | Off | L1 | 19.8 | 22.6 | 50.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 3 | Temperature : | 21~23°C |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | WCDMA Band II Idle + WLAN (2.4G) Link + Bluetooth Link + Scanner + PIM Keypad without Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

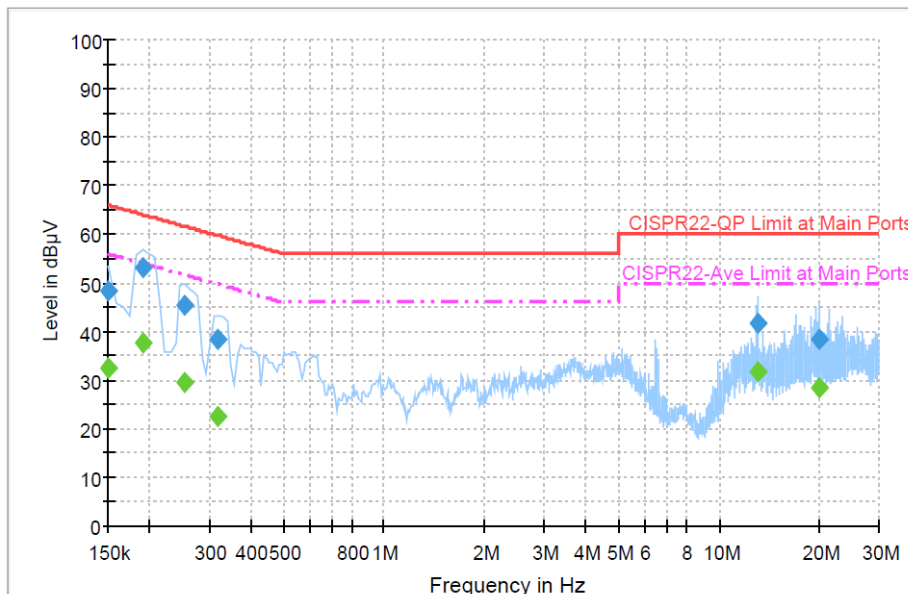

Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 49.0 | Off | N | 19.4 | 17.0 | 66.0 |
| 0.190000 | 51.6 | Off | N | 19.4 | 12.4 | 64.0 |
| 0.254000 | 43.2 | Off | N | 19.4 | 18.4 | 61.6 |
| 0.318000 | 36.0 | Off | N | 19.3 | 23.8 | 59.8 |
| 13.006000 | 44.0 | Off | N | 19.7 | 16.0 | 60.0 |
| 21.222000 | 40.6 | Off | N | 19.9 | 19.4 | 60.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 33.1 | Off | N | 19.4 | 22.9 | 56.0 |
| 0.190000 | 35.7 | Off | N | 19.4 | 18.3 | 54.0 |
| 0.254000 | 27.4 | Off | N | 19.4 | 24.2 | 51.6 |
| 0.318000 | 20.1 | Off | N | 19.3 | 29.7 | 49.8 |
| 13.006000 | 33.2 | Off | N | 19.7 | 16.8 | 50.0 |
| 21.222000 | 29.6 | Off | N | 19.9 | 20.4 | 50.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 4 | Temperature : | 21~23°C |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WCDMA Band V Idle + WLAN (5G) Link + Bluetooth Link + Camera + Numeric Keypad without Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

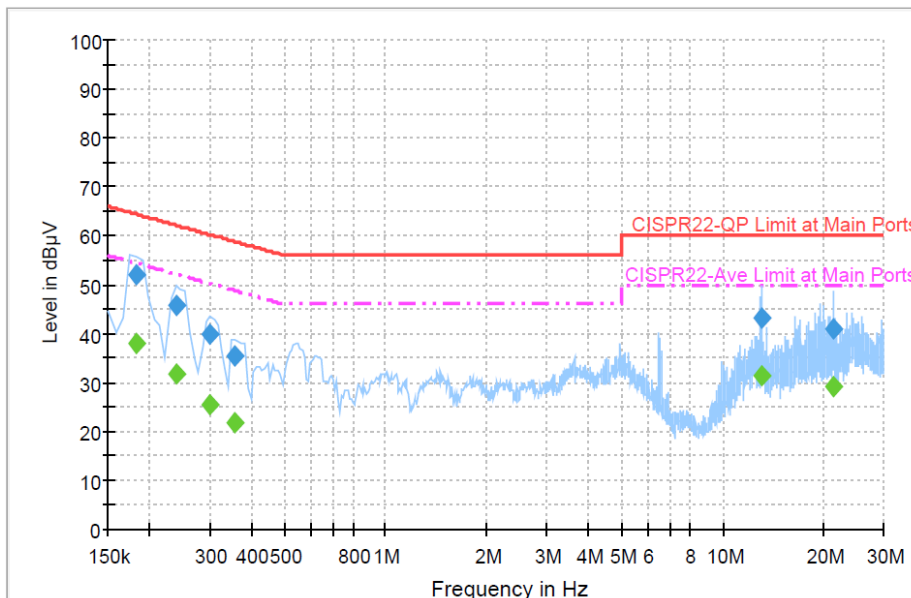

Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 48.4 | Off | L1 | 19.4 | 17.6 | 66.0 |
| 0.190000 | 53.3 | Off | L1 | 19.4 | 10.7 | 64.0 |
| 0.254000 | 45.4 | Off | L1 | 19.3 | 16.2 | 61.6 |
| 0.318000 | 38.4 | Off | L1 | 19.3 | 21.4 | 59.8 |
| 13.006000 | 41.7 | Off | L1 | 19.7 | 18.3 | 60.0 |
| 19.870000 | 38.2 | Off | L1 | 19.8 | 21.8 | 60.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 32.3 | Off | L1 | 19.4 | 23.7 | 56.0 |
| 0.190000 | 37.5 | Off | L1 | 19.4 | 16.5 | 54.0 |
| 0.254000 | 29.6 | Off | L1 | 19.3 | 22.0 | 51.6 |
| 0.318000 | 22.4 | Off | L1 | 19.3 | 27.4 | 49.8 |
| 13.006000 | 31.6 | Off | L1 | 19.7 | 18.4 | 50.0 |
| 19.870000 | 28.3 | Off | L1 | 19.8 | 21.7 | 50.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 4 | Temperature : | 21~23°C |
| Test Engineer : | Kai Chun Chu | Relative Humidity : | 50~52% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | WCDMA Band V Idle + WLAN (5G) Link + Bluetooth Link + Camera + Numeric Keypad without Camera + USB Charging Cable with AC Power + USB Link | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |


Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.182000 | 52.2 | Off | N | 19.4 | 12.2 | 64.4 |
| 0.238000 | 45.8 | Off | N | 19.4 | 16.4 | 62.2 |
| 0.302000 | 39.7 | Off | N | 19.3 | 20.5 | 60.2 |
| 0.358000 | 35.4 | Off | N | 19.3 | 23.4 | 58.8 |
| 13.006000 | 43.1 | Off | N | 19.7 | 16.9 | 60.0 |
| 21.222000 | 41.1 | Off | N | 19.9 | 18.9 | 60.0 |

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 | 31.6 | Off | N | 19.4 | 20.6 | 52.2 |
| 0.302000 | 25.5 | Off | N | 19.3 | 24.7 | 50.2 |
| 0.358000 | 21.6 | Off | N | 19.3 | 27.2 | 48.8 |
| 13.006000 | 31.3 | Off | N | 19.7 | 18.7 | 50.0 |
| 21.222000 | 29.2 | Off | N | 19.9 | 20.8 | 50.0 |

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 Connected Construction

Non-standard connector 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 | Agilent | E4446A | MY50180136 | 3Hz~44GHz | Apr. 03, 2011 | Mar. 03, 2012~ Apr. 02, 2012 | Apr. 02, 2012 | Conducted (TH02-HY) |
| Spectrum Analyzer | Agilent | E4446A | MY50180136 | 3Hz~44GHz | Apr. 17, 2012 | Apr. 17, 2012~ Jun. 28, 2012 | Apr. 16, 2013 | Conducted (TH02-HY) |
| Power Meter | Anritsu | ML2495A | 0932001 | N/A | Sep. 18, 2011 | Mar. 03, 2012~ Jun. 28, 2012 | Sep. 17, 2012 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 0846202 | N/A | Sep. 18, 2011 | Mar. 03, 2012~ Jun. 28, 2012 | Sep. 17, 2012 | Conducted (TH02-HY) |
| Bilog Antenna | SCHAFFNER | CBL6111C | 2726 | 30MHz ~ 1GHz | Oct. 22, 2011 | Jun. 23, 2012 ~ Jun. 28, 2012 | Oct. 21, 2012 | Radiation (03CH07-HY) |
| Spectrum Analyzer | R&S | FSP30 | 101067 | 9KHz ~ 30GHz | Dec. 06, 2011 | Jun. 23, 2012 ~ Jun. 28, 2012 | Dec. 05, 2012 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Aug. 10, 2011 | Jun. 23, 2012 ~ Jun. 28, 2012 | Aug. 09, 2012 | Radiation (03CH07-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A02362 | 1GHz ~ 26.5GHz | Dec. 05, 2011 | Jun. 23, 2012 ~ Jun. 28, 2012 | Dec. 04, 2012 | Radiation (03CH07-HY) |
| Pre Amplifier | COM-POWER | PA-103A | 161241 | 10-1000MHz.32dB.GAIN | Feb. 27, 2012 | Jun. 23, 2012 ~ Jun. 28, 2012 | Feb. 26, 2013 | Radiation (03CH07-HY) |
| EMI TEST RECEIVER | R&S | ESCI 7 | 100724 | 9kHz ~ 7GHz | Aug. 22, 2011 | Jun. 23, 2012 ~ Jun. 28, 2012 | Aug. 21, 2012 | Radiation (03CH07-HY) |
| Pre Amplifier | MITEQ | AMF-7D-0010 1800-30-10P | 159088 | 1GHz ~ 18GHz | Mar. 10, 2012 | Jun. 23, 2012 ~ Jun. 28, 2012 | Mar. 09, 2013 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 15GHz ~ 40GHz | Oct. 21, 2011 | Jun. 23, 2012 ~ Jun. 28, 2012 | Oct. 20, 2012 | Radiation (03CH07-HY) |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9 kHz~30 MHz | Jul. 29, 2010 | Jun. 23, 2012 ~ Jun. 28, 2012 | Jul. 28, 2012 | Radiation (03CH07-HY) |
| EMI Test Receive | R&S | ESCS 30 | 100356 | 9KHz ~ 2.75GHz | Oct. 27, 2011 | Mar. 09, 2012~ Mar. 17, 2012 | Oct. 26, 2012 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100081 | 9KHz ~ 30MHz | Dec. 09, 2011 | Mar. 09, 2012~ Mar. 17, 2012 | Dec. 08, 2012 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100080 | 9KHz ~ 30MHz | Dec. 06, 2011 | Mar. 09, 2012~ Mar. 17, 2012 | Dec. 05, 2012 | Conduction (CO05-HY) |
| AC Power Source | APC | APC-1000W | N/A | N/A | N/A | Mar. 09, 2012~ Mar. 17, 2012 | N/A | Conduction (CO05-HY) |
| System Simulator | R&S | CMU200 | 117997 | N/A | Aug. 22, 2011 | Mar. 09, 2012~ Mar. 17, 2012 | Aug. 21, 2012 | Conduction (CO05-HY) |
| GPS Station | T&E | GS-50 | N/A | N/A | N/A | Mar. 09, 2012~ Mar. 17, 2012 | 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 (30MHz ~ 1000MHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.54 |
|---|------|

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.72 |
|---|------|



Appendix A. Photographs of EUT

Please refer to Sporton report number EP221518-01 as below.