FCC TEST REPORT

According to

FCC Rules and Regulations

Part 15 Subpart C

Applicant Rosonix Technology, Inc.

Address 6F, No. 331, Fu-Shing N. Rd., Taipei, Taiwan

Equipment Zigbee Module

Model No. RX-2503

FCC ID. YUDWPMZERX2503

Trade Name Rosonix

Laboratory Accreditation



- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

Cerpass Technology Corp. Issued date : Oct. 15, 2010

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CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations

Part 15 Subpart C

Applicant Rosonix Technology, Inc.

Address 6F, No. 331, Fu-Shing N. Rd., Taipei, Taiwan

Equipment Zigbee Module

Model No. RX-2503

FCC ID. YUDWPMZERX2503

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 The equipment was passed the test performed according to FCC Rules and Regulations Part 15 Subpart C (2009).

The test was carried out on Sep. 29, 2010 at Cerpass Technology Corp.

Signature

Anson Chou

EMC/RF B.U. Vice General Manager

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1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

| FCC Rule | . Description of Test | Result |
|--------------------------------------|--|--------|
| 15.203 | . Antenna Requirement | Pass |
| 15.207 | . Conducted Emission | Pass |
| 15.209 15.247(d) | . Radiated Emission | Pass |
| 15.247(a)(2) | 15.247(a)(2) . 6dB Bandwidth | |
| 15.247(b) | 15.247(b) . Maximum Peak Output Power | |
| 15.247(d) | 15.247(d) . 100kHz Bandwidth of Frequency Band Edges | |
| 15.247(e) | 15.247(e) . Power Spectral Density | |
| 1.1307 1.1310 2.1091 2.1093 | 1.1310 2.1091 . RF Exposure Compliance | |

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2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

| Chip Set | Ember EM250 SoC | |
|---------------------------------|---|--|
| Operation Voltage | 2.1~3.6V | |
| Network Standard | IEEE 802.15.4 | |
| Modulation | DSSS PHY employing Offset-QPSK | |
| Network Architectures | Star or Mesh | |
| Data Rate | 250Kbps | |
| Integrated Memory | 128KB or Flash, 5KB of SRAM | |
| Power Consumption | TX: under 40mA, RX: under 40mA Deep sleep: under 2uA | |
| Watchdog | Internal watchdog timer and power-on-reset circuitry | |
| Encryption | Integrated 128-bit AES encryption accelerator | |
| Operating Frequency Band | 2.405GHz~2.480GHz (16 channels with 5MHz wide) | |
| Antenna Type | Internal PCB Traced Planar Inverted-F Antenna (3.74dBi) U.FL Connector for External Antenna (5dBi, 2dBi) | |
| TX Output Power | Max. +3dBm (+5dBm in Boost mode), Min43dBm | |
| RX Sensitivity | Typical -95dBm (-96dBm in Boost mode) at 1% packet error rate | |
| Operating Temperature (Ambient) | -40°C ~+85°C | |
| Humidity (Non-condensing) | 0~95% RH | |

2.2 Carrier Frequency of Channels

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 01 | 2405 | 09 | 2445 |
| 02 | 2410 | 10 | 2450 |
| 03 | 2415 | 11 | 2455 |
| 04 | 2420 | 12 | 2460 |
| 05 | 2425 | 13 | 2465 |
| 06 | 2430 | 14 | 2470 |
| 07 | 2435 | 15 | 2475 |
| 08 | 2440 | 16 | 2480 |

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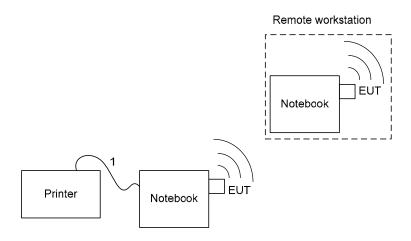
2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Remote workstation, Notebook, Printer and EUT for RF test. The Remote workstation included Notebook and EUT.
- c. An executive program, "Hyper Terminal" under WIN 7, which transmits and receives data through Wireless.
- d. The following test modes were performed for test: CH01: 2405MHz, CH09: 2445MHz, CH16: 2480MHz

2.4 Description of Test System

| Device | Manufacturer | Model No. | Description | | |
|--------------------|--------------|-----------|--|--|--|
| Notebook | IBM | R40 | Power Cable, Unshielding 1.8 m | | |
| Printer | НР | D2660 | Power Cable, Unshielding 1.8 m USB Cable, Shielding 1.6 m | | |
| Remote workstation | | | | | |
| Notebook | SONY | VPCEB25FW | Power Cable, Unshielding 1.8 m | | |

2.5 Connection Diagram of Test System



- 1. The USB cable is connected from the Notebook to the Printer.
- * The EUT keeps to transmit and receive data by Wireless.

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2.6 General Information of Test

| Test Site : | Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C. |
|---------------------------------|--|
| Test Site Location (OATS2-SD) : | No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C. |
| FCC Registration Number : | TW1049, TW1056, 982971, 488071, 390316 |
| IC Registration Number : | 4934C-1, 4934D-1 |
| VCCI Registration Number : | T-543 for Telecommunication Test C-3328 for Conducted emission test R-3013 for Radiated emission test G-97 for radiated disturbance above 1GHz |
| Test Voltage: | AC 120V / 60Hz |
| Test in Compliance with: | ANSI C63.4-2003 FCC Part 15 Subpart C |
| Frequency Range Investigated: | Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 25,000MHz |
| Test Distance: | The test distance of radiated emission from antenna to EUT is 3 M. |

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2.7 Measurement Uncertainty

| Measurement Item | Measurement Frequency | Polarization | Uncertainty |
|---|-----------------------|--------------|-------------|
| Conducted Emission | 9 kHz ~ 30 MHz | LINE/NEUTRAL | 2.71 dB |
| Radiated Emission | 30 MHz ~ 25GHz | Vertical | 4.11 dB |
| Radiated Emission | 30 MHZ ~ 25GHZ | Horizontal | 4.10 dB |
| 6 dB Bandwidth | | | 7500 Hz |
| Maximum Peak Output Power | | | 1.4 dB |
| 100kHz Bandwidth of Frequency Band Edges | | | 2.2 dB |
| Power Spectral Density | | | 2.2 dB |

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2.8 History of this test report

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3. Antenna Requirements

3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

3.2 Antenna Construction and Directional Gain

Internal Antenna

Antenna Type: PIFA antenna Antenna Gain: 3.74dBi

External Antenna

Antenna Type: Dipole antenna Antenna Gain: 5dBi; 2dBi

Connector: U.FL (Reverse Polarity meets FCC part 15. 203 Requirement)

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4. Test of Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

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| Frequency (MHz) | Quasi Peak (dB μ V) | Average (dB μ V) |
|--------------------|------------------------|---------------------|
| 0.15 – 0.5 | 66-56* | 56-46* |
| 0.5 – 5.0 | 56 | 46 |
| 5.0 – 30.0 | 60 | 50 |

^{*}Decreases with the logarithm of the frequency.

4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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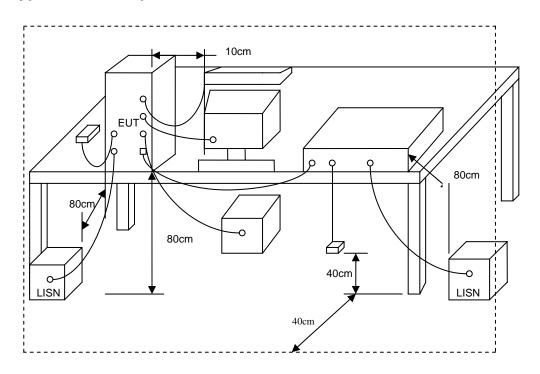
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4.3 Typical Test Setup



4.4 Measurement Equipment

| Instrument/ Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|--------------------------|--------------|-----------|------------|------------------|------------|
| EMI Receiver | R&S | ESCI | 100821 | 2010/01/21 | 2011/01/20 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-516 | 2010/05/25 | 2011/05/24 |
| LISN | EMCO | 3825/2 | 9703-2655 | 2009/10/28 | 2010/10/27 |

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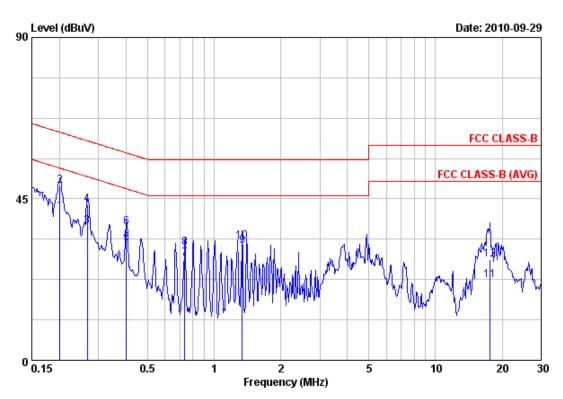
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4.5 Test Result and Data

| Power | : | AC 120V | Pol/Phase : | : | LINE |
|-------------|---|----------------------------|---------------|---|-------|
| Test Mode 1 | | O-QPSK (Normal), CH1 | Temperature : | : | 25 °C |
| Memo | | Internal Antenna (3.74dBi) | Humidity : | : | 65 % |



| Margin dB -12.34 -14.85 | Remark Average QP |
|-------------------------|--|
| -12.34 -14.85 | _ |
| -12.34 -14.85 | _ |
| -14.85 | _ |
| | QP |
| -13.93 | |
| 10.00 | Average |
| -17.78 | QP |
| -15.12 | Average |
| -20.61 | QP |
| -17.72 | Average |
| -24.62 | QP |
| -14.04 | Average |
| -22.91 | QP |
| -27.59 | Average |
| -31.95 | QP |
| | -15.12 -20.61 -17.72 -24.62 -14.04 -22.91 -27.59 |

Notes:

- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

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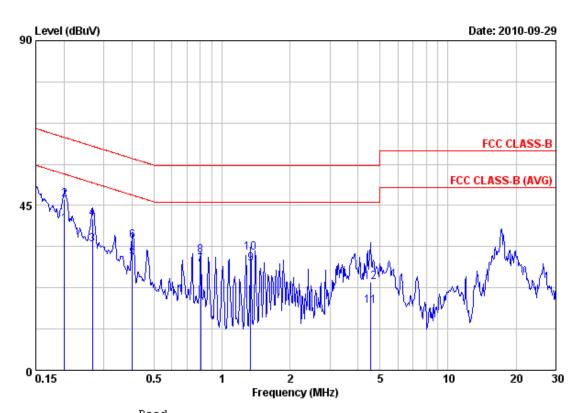
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| Power : | AC 120V | Pol/Phase : | NEUTRAL |
|---------------|----------------------------|---------------|---------|
| Test Mode 1 : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark |
|------|------|---------------|--------|--------|--------|--------|---------|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 0.20 | 39.77 | 0.07 | 39.84 | 53.58 | -13.74 | Average |
| 2 | 0.20 | 46.51 | 0.07 | 46.58 | 63.58 | -17.00 | QP |
| 3 | 0.27 | 34.23 | 0.07 | 34.30 | 51.20 | -16.90 | Average |
| 4 | 0.27 | 41.39 | 0.07 | 41.46 | 61.20 | -19.74 | QP |
| 5 | 0.40 | 30.74 | 0.08 | 30.82 | 47.81 | -16.99 | Average |
| 6 | 0.40 | 35.33 | 0.08 | 35.41 | 57.81 | -22.40 | QP |
| 7 | 0.80 | 28.74 | 0.10 | 28.84 | 46.00 | -17.16 | Average |
| 8 | 0.80 | 31.20 | 0.10 | 31.30 | 56.00 | -24.70 | QP |
| 9 | 1.34 | 29.00 | 0.11 | 29.11 | 46.00 | -16.89 | Average |
| 10 | 1.34 | 31.95 | 0.11 | 32.06 | 56.00 | -23.94 | QP |
| 11 | 4.53 | 17.45 | 0.21 | 17.66 | 46.00 | -28.34 | Average |
| 12 | 4.53 | 23.87 | 0.21 | 24.08 | 56.00 | -31.92 | QP |

Notes:

- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

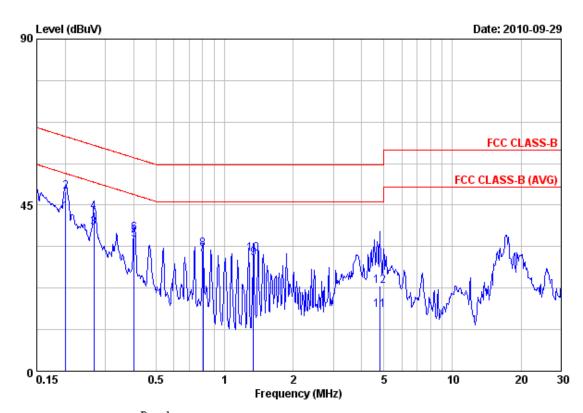
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| Power : | AC 120V | Pol/Phase : | LINE |
|---------------|----------------------------|---------------|-------|
| Test Mode 2 : | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |

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| | | Read | | | | | |
|------|------|-------|--------|--------|--------|--------|---------|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 0.20 | 43.02 | 0.07 | 43.09 | 53.58 | -10.49 | Average |
| 2 | 0.20 | 48.48 | 0.07 | 48.55 | 63.58 | -15.03 | QP |
| 3 | 0.27 | 38.91 | 0.07 | 38.98 | 51.20 | -12.22 | Average |
| 4 | 0.27 | 43.17 | 0.07 | 43.24 | 61.20 | -17.96 | QP |
| 5 | 0.40 | 35.63 | 0.08 | 35.71 | 47.81 | -12.10 | Average |
| 6 | 0.40 | 37.30 | 0.08 | 37.38 | 57.81 | -20.43 | QP |
| 7 | 0.80 | 31.50 | 0.10 | 31.60 | 46.00 | -14.40 | Average |
| 8 | 0.80 | 33.04 | 0.10 | 33.14 | 56.00 | -22.86 | QP |
| 9 | 1.34 | 30.56 | 0.12 | 30.68 | 46.00 | -15.32 | Average |
| 10 | 1.34 | 31.82 | 0.12 | 31.94 | 56.00 | -24.06 | QP |
| 11 | 4.80 | 16.37 | 0.27 | 16.64 | 46.00 | -29.36 | Average |
| 12 | 4.80 | 22.70 | 0.27 | 22.97 | 56.00 | -33.03 | QP |

Notes:

- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of $\ensuremath{\mathsf{FSK}}$ mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

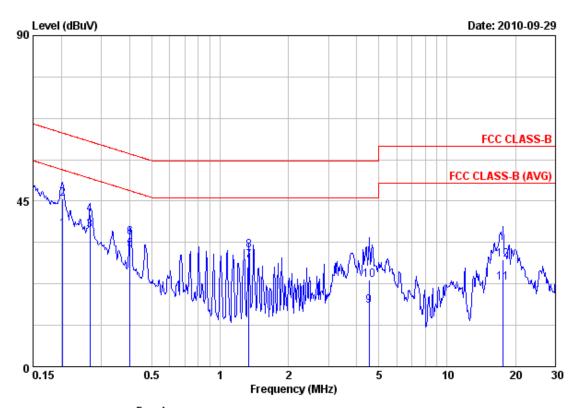
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| Power | : | AC 120V | Pol/Phase : | NEUTRAL |
|-------------|---|----------------------------|---------------|---------|
| Test Mode 2 | : | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo | : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



| | | Read | | | | | |
|------|-------|-------|--------|--------|--------|--------|---------|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 0.20 | 37.16 | 0.07 | 37.23 | 53.49 | -16.26 | Average |
| 2 | 0.20 | 45.61 | 0.07 | 45.68 | 63.49 | -17.81 | QP |
| 3 | 0.27 | 37.14 | 0.07 | 37.21 | 51.20 | -13.99 | Average |
| 4 | 0.27 | 41.36 | 0.07 | 41.43 | 61.20 | -19.77 | QP |
| 5 | 0.40 | 31.86 | 0.08 | 31.94 | 47.81 | -15.87 | Averag |
| 6 | 0.40 | 35.00 | 0.08 | 35.08 | 57.81 | -22.73 | QP |
| 7 | 1.34 | 28.71 | 0.11 | 28.82 | 46.00 | -17.18 | Averag |
| 8 | 1.34 | 31.59 | 0.11 | 31.70 | 56.00 | -24.30 | QP |
| 9 | 4.53 | 16.33 | 0.21 | 16.54 | 46.00 | -29.46 | Averag |
| 10 | 4.53 | 23.38 | 0.21 | 23.59 | 56.00 | -32.41 | QP |
| 11 | 17.59 | 22.44 | 0.49 | 22.93 | 50.00 | -27.07 | Averag |
| 12 | 17.59 | 28.65 | 0.49 | 29.14 | 60.00 | -30.86 | QP |
| | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

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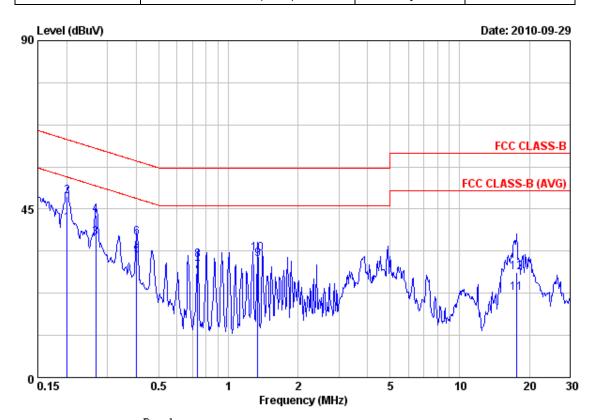
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| Power | : | AC 120V | Pol/Phase : | LINE |
|-------------|---|-------------------------|---------------|-------|
| Test Mode 3 | : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo | | External Antenna (5dRi) | Humidity · | 65 % |

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| | | Read | | | | | |
|------|-------|-------|--------|--------|--------|--------|---------|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark |
| | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 0.20 | 41.12 | 0.07 | 41.19 | 53.58 | -12.39 | Average |
| 2 | 0.20 | 48.39 | 0.07 | 48.46 | 63.58 | -15.12 | QP |
| 3 | 0.27 | 37.18 | 0.07 | 37.25 | 51.20 | -13.95 | Average |
| 4 | 0.27 | 43.21 | 0.07 | 43.28 | 61.20 | -17.92 | QP |
| 5 | 0.40 | 32.62 | 0.08 | 32.70 | 47.81 | -15.11 | Average |
| 6 | 0.40 | 37.18 | 0.08 | 37.26 | 57.81 | -20.55 | QP |
| 7 | 0.74 | 28.13 | 0.09 | 28.22 | 46.00 | -17.78 | Average |
| 8 | 0.74 | 31.26 | 0.09 | 31.35 | 56.00 | -24.65 | QP |
| 9 | 1.34 | 31.52 | 0.12 | 31.64 | 46.00 | -14.36 | Average |
| 10 | 1.34 | 32.98 | 0.12 | 33.10 | 56.00 | -22.90 | QP |
| 11 | 17.66 | 21.93 | 0.51 | 22.44 | 50.00 | -27.56 | Average |
| 12 | 17.66 | 27.54 | 0.51 | 28.05 | 60.00 | -31.95 | QP |
| | | | | | | | |

Notes:

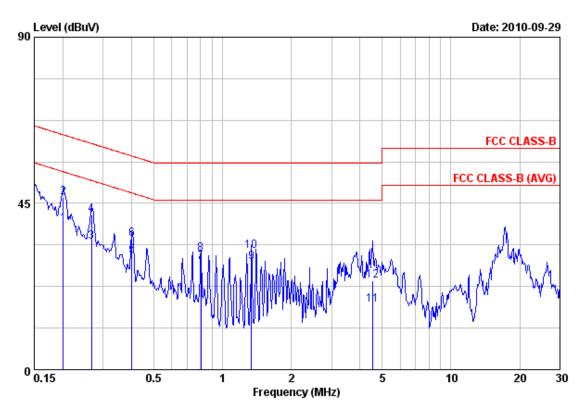
- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | NEUTRAL |
|---------------|-------------------------|---------------|---------|
| Test Mode 3 : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo : | External Antenna (5dBi) | Humidity : | 65 % |



| _ | _ | Read | _ | | | | |
|------|------|-------|--------|--------|--------|--------|---------|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 0.20 | 39.35 | 0.07 | 39.42 | 53.58 | -14.16 | Average |
| 2 | 0.20 | 46.57 | 0.07 | 46.64 | 63.58 | -16.94 | QP |
| 3 | 0.27 | 34.60 | 0.07 | 34.67 | 51.20 | -16.53 | Average |
| 4 | 0.27 | 41.87 | 0.07 | 41.94 | 61.20 | -19.26 | QP |
| 5 | 0.40 | 30.73 | 0.08 | 30.81 | 47.81 | -17.00 | Average |
| 6 | 0.40 | 35.37 | 0.08 | 35.45 | 57.81 | -22.36 | QP |
| 7 | 0.80 | 28.98 | 0.10 | 29.08 | 46.00 | -16.92 | Average |
| 8 | 0.80 | 31.25 | 0.10 | 31.35 | 56.00 | -24.65 | QP |
| 9 | 1.34 | 28.97 | 0.11 | 29.08 | 46.00 | -16.92 | Average |
| 10 | 1.34 | 31.92 | 0.11 | 32.03 | 56.00 | -23.97 | QP |
| 11 | 4.53 | 17.32 | 0.21 | 17.53 | 46.00 | -28.47 | Average |
| 12 | 4.53 | 23.85 | 0.21 | 24.06 | 56.00 | -31.94 | QP |

- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

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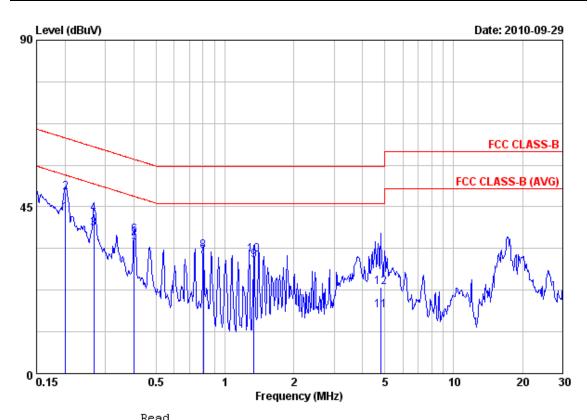
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| Power | AC 120V | Pol/Phase : | LINE |
|-------------|-------------------------|---------------|-------|
| Test Mode 4 | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo : | External Antenna (5dBi) | Humidity : | 65 % |

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| | kead | | | | | |
|------|---|--|---|---|--|--|
| Freq | Value | Factor | Result | Limit | Margin | Remark |
| MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | |
| 0.20 | 43.19 | 0.07 | 43.26 | 53.58 | -10.32 | Average |
| 0.20 | 48.70 | 0.07 | 48.77 | 63.58 | -14.81 | QP |
| 0.27 | 38.99 | 0.07 | 39.06 | 51.20 | -12.14 | Average |
| 0.27 | 43.14 | 0.07 | 43.21 | 61.20 | -17.99 | QP |
| 0.40 | 35.39 | 0.08 | 35.47 | 47.81 | -12.34 | Average |
| 0.40 | 37.26 | 0.08 | 37.34 | 57.81 | -20.47 | QP |
| 0.80 | 31.53 | 0.10 | 31.63 | 46.00 | -14.37 | Average |
| 0.80 | 33.05 | 0.10 | 33.15 | 56.00 | -22.85 | QP |
| 1.34 | 30.59 | 0.12 | 30.71 | 46.00 | -15.29 | Average |
| 1.34 | 31.87 | 0.12 | 31.99 | 56.00 | -24.01 | QP |
| 4.80 | 16.74 | 0.27 | 17.01 | 46.00 | -28.99 | Average |
| 4.80 | 23.00 | 0.27 | 23.27 | 56.00 | -32.73 | QP |
| | MHz 0.20 0.20 0.27 0.27 0.40 0.40 0.80 0.80 1.34 1.34 4.80 | MHz dBuV 0.20 43.19 0.20 48.70 0.27 38.99 0.27 43.14 0.40 35.39 0.40 37.26 0.80 31.53 0.80 33.05 1.34 30.59 1.34 31.87 4.80 16.74 | Freq Value Factor MHz dBuV dB/m 0.20 43.19 0.07 0.20 48.70 0.07 0.27 38.99 0.07 0.27 43.14 0.07 0.40 35.39 0.08 0.40 37.26 0.08 0.80 31.53 0.10 0.80 33.05 0.10 1.34 30.59 0.12 1.34 31.87 0.12 4.80 16.74 0.27 | Freq Value Factor Result MHz dBuV dB/m dBuV/m 0.20 43.19 0.07 43.26 0.20 48.70 0.07 48.77 0.27 38.99 0.07 39.06 0.27 43.14 0.07 43.21 0.40 35.39 0.08 35.47 0.40 37.26 0.08 37.34 0.80 31.53 0.10 31.63 0.80 33.05 0.10 33.15 1.34 30.59 0.12 30.71 1.34 31.87 0.12 31.99 4.80 16.74 0.27 17.01 | Freq Value Factor Result Limit MHz dBuV dB/m dBuV/m dBuV/m 0.20 43.19 0.07 43.26 53.58 0.20 48.70 0.07 48.77 63.58 0.27 38.99 0.07 39.06 51.20 0.27 43.14 0.07 43.21 61.20 0.40 35.39 0.08 35.47 47.81 0.40 37.26 0.08 37.34 57.81 0.80 31.53 0.10 31.63 46.00 0.80 33.05 0.10 33.15 56.00 1.34 30.59 0.12 30.71 46.00 1.34 31.87 0.12 31.99 56.00 4.80 16.74 0.27 17.01 46.00 | Freq Value Factor Result Limit Margin MHz dBuV dB/m dBuV/m dBuV/m dBuV/m dB 0.20 43.19 0.07 43.26 53.58 -10.32 0.20 48.70 0.07 48.77 63.58 -14.81 0.27 38.99 0.07 39.06 51.20 -12.14 0.27 43.14 0.07 43.21 61.20 -17.99 0.40 35.39 0.08 35.47 47.81 -12.34 0.40 37.26 0.08 37.34 57.81 -20.47 0.80 31.53 0.10 31.63 46.00 -14.37 0.80 33.05 0.10 33.15 56.00 -22.85 1.34 30.59 0.12 30.71 46.00 -15.29 1.34 31.87 0.12 31.99 56.00 -24.01 4.80 16.74 0.27 17.01 46.00 -28.99 |

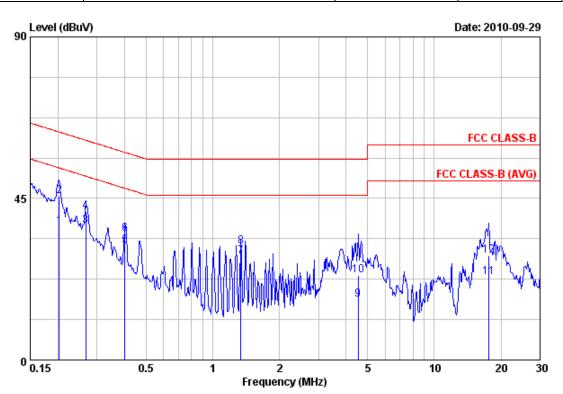
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

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| Power | : | AC 120V | Pol/Phase | : | NEUTRAL |
|-------------|---|-------------------------|-------------|---|---------|
| Test Mode 4 | : | O-QPSK (Boost), CH1 | Temperature | : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity | : | 65 % |



| | | Read | | | | | |
|------|-------|-------|--------|--------|--------|--------|---------|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark |
| | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 0.20 | 37.11 | 0.07 | 37.18 | 53.49 | -16.31 | Average |
| 2 | 0.20 | 45.64 | 0.07 | 45.71 | 63.49 | -17.78 | QP |
| 3 | 0.27 | 37.39 | 0.07 | 37.46 | 51.20 | -13.74 | Average |
| 4 | 0.27 | 41.36 | 0.07 | 41.43 | 61.20 | -19.77 | QP |
| 5 | 0.40 | 31.82 | 0.08 | 31.90 | 47.81 | -15.91 | Average |
| 6 | 0.40 | 35.00 | 0.08 | 35.08 | 57.81 | -22.73 | QP |
| 7 | 1.34 | 28.76 | 0.11 | 28.87 | 46.00 | -17.13 | Average |
| 8 | 1.34 | 31.53 | 0.11 | 31.64 | 56.00 | -24.36 | QP |
| 9 | 4.53 | 16.53 | 0.21 | 16.74 | 46.00 | -29.26 | Average |
| 10 | 4.53 | 23.38 | 0.21 | 23.59 | 56.00 | -32.41 | QP |
| 11 | 17.59 | 22.48 | 0.49 | 22.97 | 50.00 | -27.03 | Average |
| 12 | 17.59 | 28.65 | 0.49 | 29.14 | 60.00 | -30.86 | QP |

- 1. Result = Read Value + Factor
- 2. Factor = LISN Factor + Cable Loss
- 3. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 4. The data is worse case.

Test engineer:

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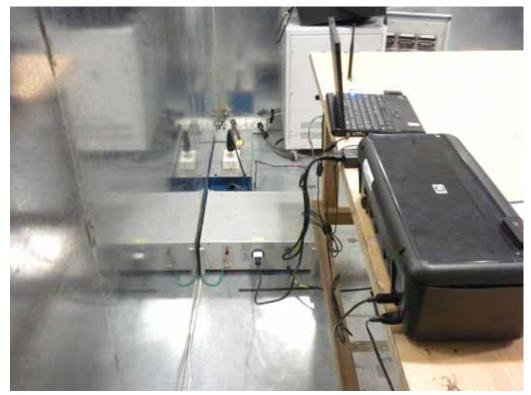


4.6 Test Photographs



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Front View



Rear View

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5. Test of Radiated Emission

5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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| Frequency (MHz) | Distance Meters | Radiated (µ V / M) | Radiated (dB µ V/ M) |
|--------------------|--------------------|-----------------------|-------------------------|
| 30-88 | 3 | 100 | 40.0 |
| 88-216 | 3 | 150 | 43.5 |
| 216-960 | 3 | 200 | 46.0 |
| Above 960 | 3 | 500 | 54.0 |

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

| Frequency (MHz) | Distance Meters | Radiated (dB µ V/ M) |
|--------------------|--------------------|-------------------------|
| 30-230 | 10 | 30 |
| 230-1000 | 10 | 37 |

5.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. 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 turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

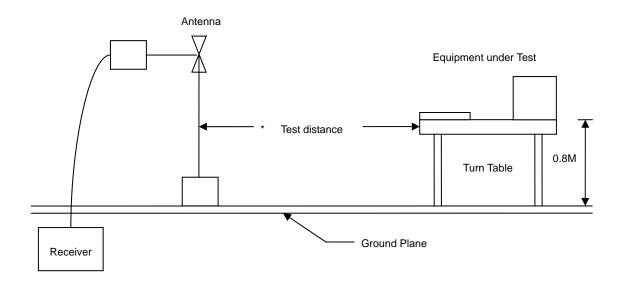
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5.3 Typical Test Setup



5.4 Measurement Equipment

| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|---------------------|------------|
| Bilog Antenna | Schaffner | CBL6112B | 2840 | 2010/05/21 | 2011/05/20 |
| Amplifier | Agilent | 8447D | 2944A10593 | 2010/05/11 | 2011/05/10 |
| Signal Generator | HP | 8648B | 3629U00612 | 2009/12/23 | 2010/12/22 |
| EMI Receiver | HP | 8546A | 3807A00454 | 2009/10/23 | 2010/10/22 |
| RF Filter Section | HP | 85460A | 3704A00386 | 2009/10/23 | 2010/10/22 |
| Spectrum Analyzer | R&S | FSP40 | 100219 | 2009/11/20 | 2010/11/19 |
| Horn Antenna | EMCO | 3115 | 31589 | 2010/05/04 | 2011/05/03 |
| Preamplifier | Agilent | 8449B | 3008A01954 | 2010/02/26 | 2011/02/25 |

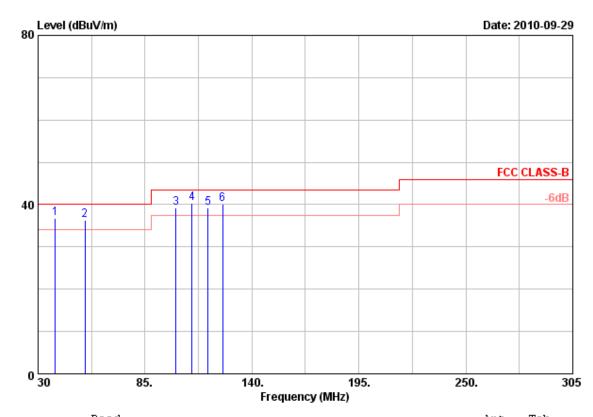
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5.5 Test Result and Data

| Power | : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|---|----------------------------|---------------|----------|
| Test Mode 1 | : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo | : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark | Ant Pos | Tab Pos | |
|------|--------|---------------|--------|--------|--------|--------|--------|------------|------------|--|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 38.80 | 44.18 | -7.43 | 36.75 | 40.00 | -3.25 | QP | 100 | 360 | |
| 2 | 54.20 | 51.65 | -15.41 | 36.24 | 40.00 | -3.76 | QP | 100 | 360 | |
| 3 | 100.95 | 51.20 | -11.92 | 39.28 | 43.50 | -4.22 | QP | 100 | 360 | |
| 4 | 109.20 | 51.88 | -11.65 | 40.23 | 43.50 | -3.27 | QP | 100 | 360 | |
| 5 | 117.45 | 49.82 | -10.49 | 39.33 | 43.50 | -4.17 | QP | 100 | 360 | |
| 6 | 124.88 | 47.73 | -7.60 | 40.13 | 43.50 | -3.37 | QP | 100 | 360 | |
| | | | | | | | | | | |

Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

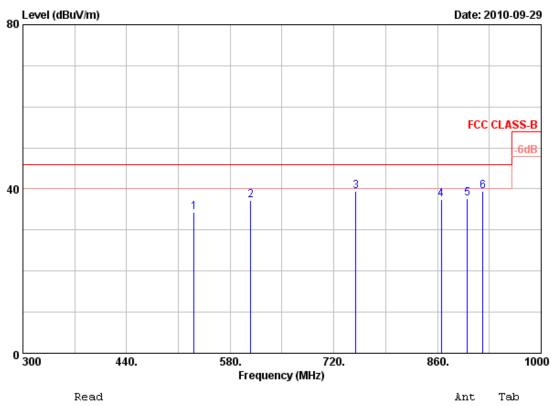
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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|----------------------------|---------------|----------|
| Test Mode 1 : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |

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| | | Read | | | | | | Ant | Tab |
|------|----------------|-------|--------|--------|--------|--------|--------|-----|-----|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
| | | | | | | | | | |
| | \mathtt{MHz} | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 531.00 | 40.42 | -6.17 | 34.25 | 46.00 | -11.75 | Peak | 100 | 0 |
| 2 | 608.00 | 44.07 | -6.89 | 37.18 | 46.00 | -8.82 | Peak | 100 | 0 |
| 3 | 749.40 | 34.33 | 5.09 | 39.42 | 46.00 | -6.58 | Peak | 100 | 0 |
| 4 | 864.90 | 30.78 | 6.72 | 37.50 | 46.00 | -8.50 | Peak | 100 | 0 |
| 5 | 900.60 | 32.91 | 4.85 | 37.76 | 46.00 | -8.24 | Peak | 100 | 0 |
| 6 | 921.60 | 31.16 | 8.25 | 39.41 | 46.00 | -6.59 | Peak | 100 | 0 |

Notes:

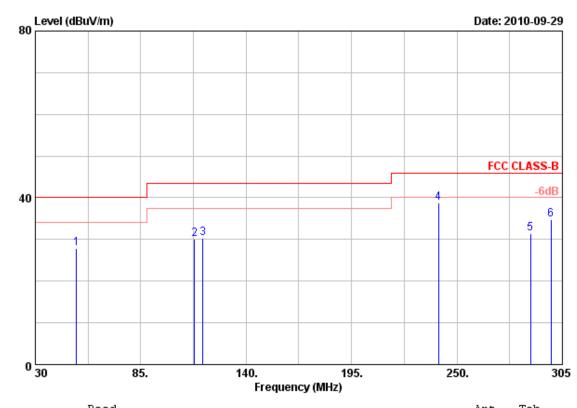
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|---------------|----------------------------|---------------|------------|
| Test Mode 1 : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |

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| Item | Freq | кеас Value | Factor | Result | Limit | Margin | Remark | Ant Pos | Tab Pos | |
|------|----------------|---------------|--------|--------|--------|--------|--------|------------|------------|--|
| | | | | | | | | | | |
| | \mathtt{MHz} | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 51.45 | 42.86 | -14.95 | 27.91 | 40.00 | -12.09 | Peak | 100 | 360 | |
| 2 | 113.05 | 47.76 | -17.63 | 30.13 | 43.50 | -13.37 | Peak | 100 | 360 | |
| 3 | 117.45 | 47.15 | -16.95 | 30.20 | 43.50 | -13.30 | Peak | 100 | 360 | |
| 4 | 240.38 | 54.12 | -15.37 | 38.75 | 46.00 | -7.25 | Peak | 100 | 360 | |
| 5 | 288.50 | 45.32 | -13.83 | 31.49 | 46.00 | -14.51 | Peak | 100 | 360 | |
| 6 | 298.95 | 48.70 | -13.99 | 34.71 | 46.00 | -11.29 | Peak | 100 | 360 | |
| | | | | | | | | | | |

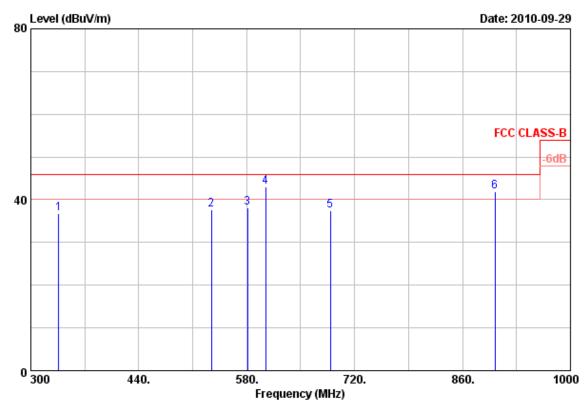
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | • | HORIZONTAL |
|-------------|---|----------------------------|---------------|-----|------------|
| Test Mode 1 | : | O-QPSK (Normal), CH1 | Temperature : | : | 25 °C |
| Memo | : | Internal Antenna (3.74dBi) | Humidity : | : [| 65 % |



| | | Read | | | | | | Ant | Tab | |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|--|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos | |
| | | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 336.40 | 49.66 | -12.97 | 36.69 | 46.00 | -9.31 | Peak | 100 | 0 | |
| 2 | 534.50 | 40.55 | -2.91 | 37.64 | 46.00 | -8.36 | Peak | 100 | 0 | |
| 3 | 581.40 | 38.48 | -0.28 | 38.20 | 46.00 | -7.80 | Peak | 100 | 0 | |
| 4 | 604.50 | 42.46 | 0.44 | 42.90 | 46.00 | -3.10 | QP | 100 | 0 | |
| 5 | 688.50 | 33.68 | 3.66 | 37.34 | 46.00 | -8.66 | Peak | 100 | 0 | |
| 6 | 902.00 | 31.21 | 10.71 | 41.92 | 46.00 | -4.08 | QP | 100 | 0 | |
| | | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is $120\,\mathrm{KHz}$ and video bandwidth is $300\,\mathrm{kHz}$ for Peak detection and Quasi-peak detection at frequency below $1\,\mathrm{GHz}$.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

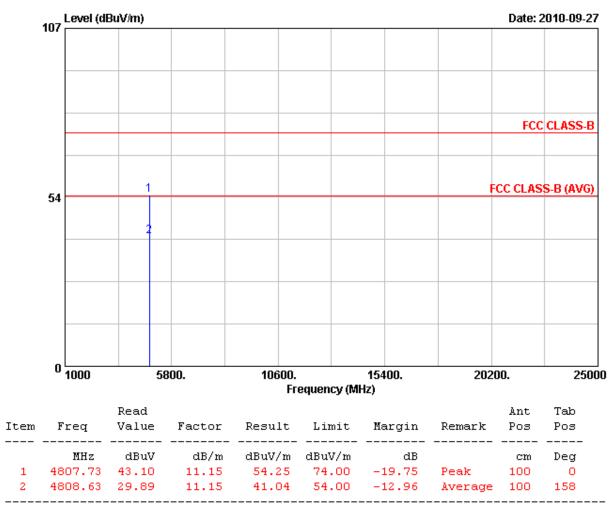
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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|----------------------------|---------------|----------|
| Test Mode 1 : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



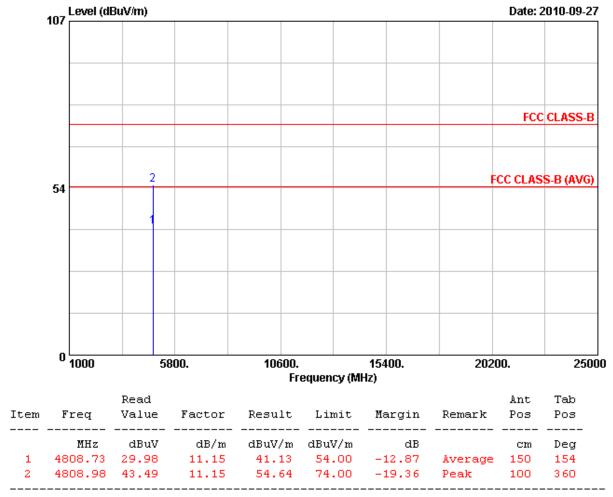
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|----------------------------|---------------|------------|
| Test Mode 1 | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo | Internal Antenna (3.74dBi) | Humidity : | 65 % |



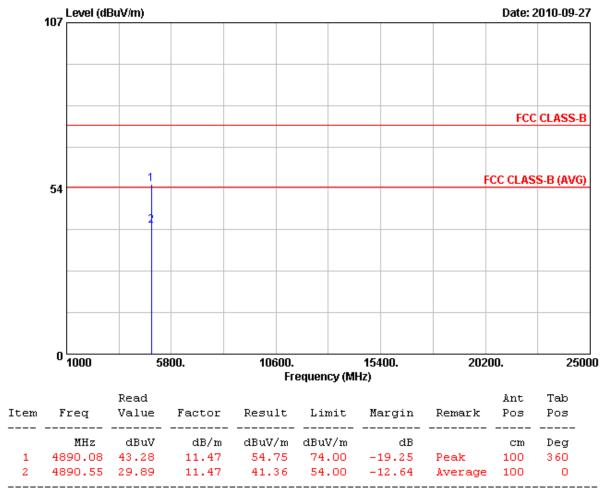
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : AC 120V | Pol/Phase : | VERTICAL |
|-------------|----------------------------|---------------|----------|
| Test Mode 1 | O-QPSK (Normal), CH9 | Temperature : | 25 °C |
| Memo | Internal Antenna (3.74dBi) | Humidity : | 65 % |



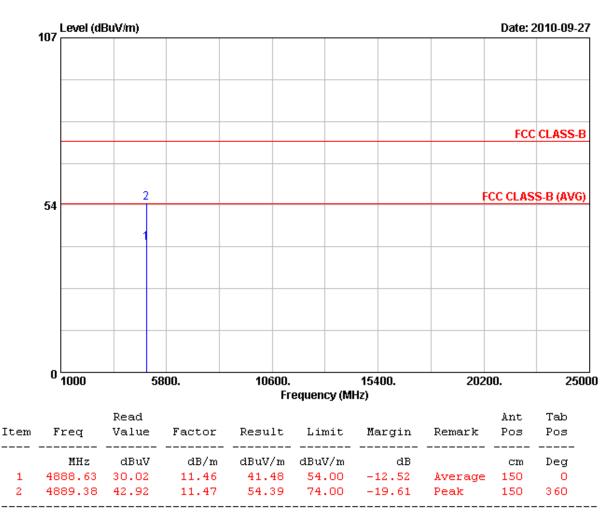
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | : | HORIZONTAL |
|-------------|---|----------------------------|---------------|---|------------|
| Test Mode 1 | : | O-QPSK (Normal), CH9 | Temperature : | : | 25 °C |
| Memo | : | Internal Antenna (3.74dBi) | Humidity : | : | 65 % |



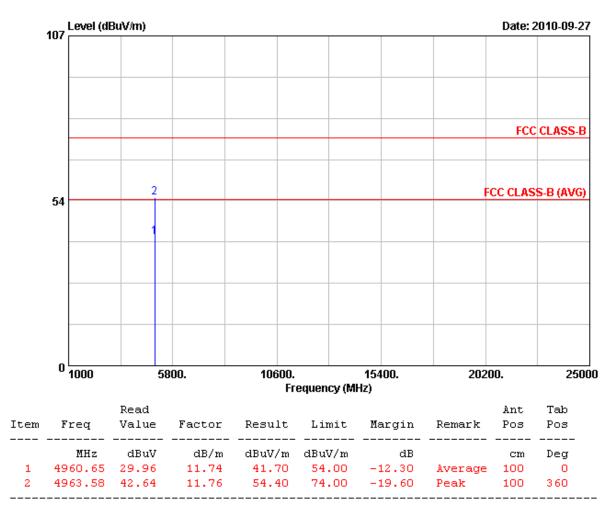
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|---|----------------------------|---------------|----------|
| Test Mode 1 | : | O-QPSK (Normal), CH16 | Temperature : | 25 °C |
| Memo | : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



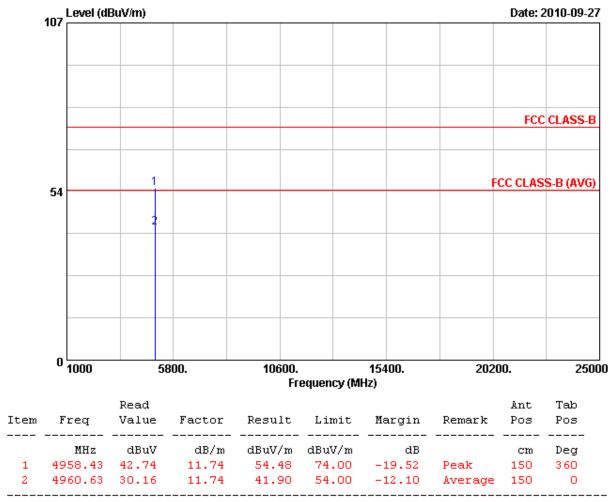
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | : | HORIZONTAL |
|-------------|---|----------------------------|---------------|-----|------------|
| Test Mode 1 | : | O-QPSK (Normal), CH16 | Temperature : | : [| 25 °C |
| Memo | : | Internal Antenna (3.74dBi) | Humidity : | : [| 65 % |



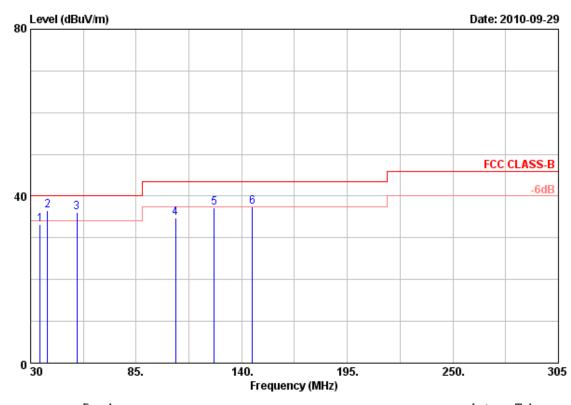
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | AC 120V | Pol/Phase : | VERTICAL |
|-------------|----------------------------|---------------|----------|
| Test Mode 2 | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo | Internal Antenna (3.74dBi) | Humidity : | 65 % |



| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark | Ant Pos | Tab Pos | |
|------|--------|---------------|--------|--------|--------|--------|--------|------------|------------|--|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 34.95 | 37.70 | -4.44 | 33.26 | 40.00 | -6.74 | Peak | 100 | 360 | |
| 2 | 38.80 | 44.04 | -7.43 | 36.61 | 40.00 | -3.39 | QP | 100 | 360 | |
| 3 | 54.20 | 51.49 | -15.41 | 36.08 | 40.00 | -3.92 | QP | 100 | 360 | |
| 4 | 105.63 | 46.55 | -11.77 | 34.78 | 43.50 | -8.72 | Peak | 100 | 360 | |
| 5 | 125.70 | 44.84 | -7.53 | 37.31 | 43.50 | -6.19 | Peak | 100 | 360 | |
| 6 | 145.50 | 46.96 | -9.55 | 37.41 | 43.50 | -6.09 | Peak | 100 | 360 | |
| | | | | | | | | | | |

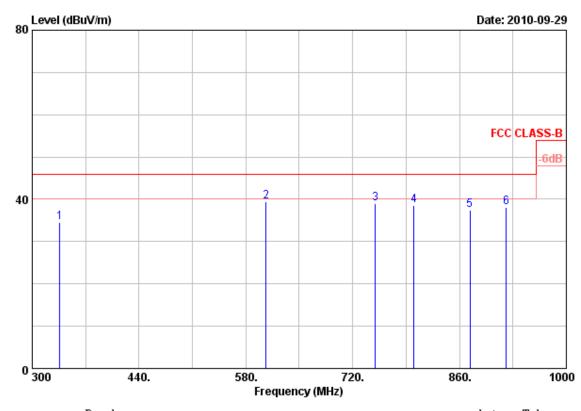
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|----------------------------|---------------|----------|
| Test Mode 2 : | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark | Ant Pos | Tab Pos | |
|------|--------|---------------|--------|--------|--------|--------|--------|------------|------------|--|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 336.40 | 44.96 | -10.34 | 34.62 | 46.00 | -11.38 | Peak | 100 | 0 | |
| 2 | 606.60 | 46.59 | -7.08 | 39.51 | 46.00 | -6.49 | Peak | 100 | 0 | |
| 3 | 749.40 | 34.01 | 5.09 | 39.10 | 46.00 | -6.90 | Peak | 100 | 0 | |
| 4 | 800.50 | 39.26 | -0.74 | 38.52 | 46.00 | -7.48 | Peak | 100 | 0 | |
| 5 | 874.00 | 30.40 | 7.01 | 37.41 | 46.00 | -8.59 | Peak | 100 | 0 | |
| 6 | 921.60 | 29.80 | 8.25 | 38.05 | 46.00 | -7.95 | Peak | 100 | 0 | |
| | | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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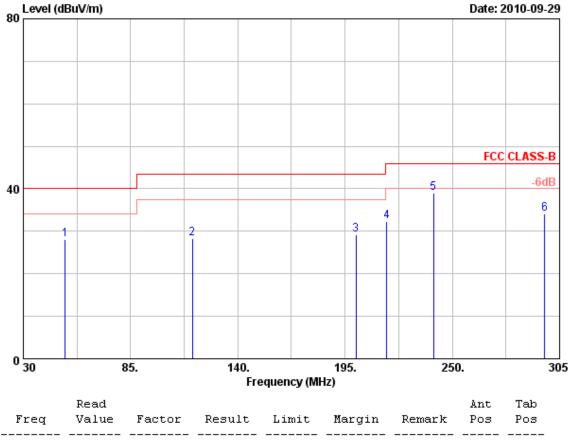
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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|---------------|----------------------------|---------------|------------|
| Test Mode 2 : | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |

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| | | Read | | | | | | Ant | Tab | |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|--|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos | |
| | | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 51.45 | 42.99 | -14.95 | 28.04 | 40.00 | -11.96 | Peak | 100 | 360 | |
| 2 | 116.63 | 45.22 | -17.02 | 28.20 | 43.50 | -15.30 | Peak | 100 | 360 | |
| 3 | 200.50 | 45.40 | -16.30 | 29.10 | 43.50 | -14.40 | Peak | 100 | 360 | |
| 4 | 216.45 | 48.96 | -16.55 | 32.41 | 46.00 | -13.59 | Peak | 100 | 360 | |
| 5 | 240.38 | 54.45 | -15.37 | 39.08 | 46.00 | -6.92 | Peak | 100 | 360 | |
| 6 | 297.30 | 48.20 | -14.08 | 34.12 | 46.00 | -11.88 | Peak | 100 | 360 | |
| | | | | | | | | | | |

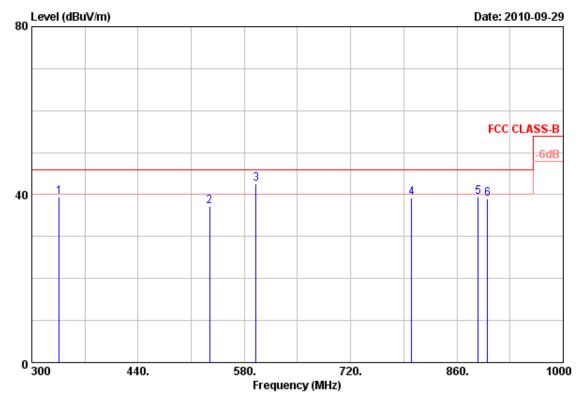
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is $120\,\mathrm{KHz}$ and video bandwidth is $300\,\mathrm{kHz}$ for Peak detection and Quasi-peak detection at frequency below $1\,\mathrm{GHz}$.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|---------------|----------------------------|---------------|------------|
| Test Mode 2 : | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



| | | Read | | | | | | Ant | Tab |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 336.40 | 52.37 | -12.97 | 39.40 | 46.00 | -6.60 | Peak | 100 | 0 |
| 2 | 534.50 | 40.03 | -2.91 | 37.12 | 46.00 | -8.88 | Peak | 100 | 0 |
| 3 | 595.40 | 42.15 | 0.43 | 42.58 | 46.00 | -3.42 | QP | 100 | 0 |
| 4 | 800.50 | 35.76 | 3.46 | 39.22 | 46.00 | -6.78 | Peak | 100 | 0 |
| 5 | 888.00 | 29.18 | 10.34 | 39.52 | 46.00 | -6.48 | Peak | 100 | 0 |
| 6 | 900.60 | 28.26 | 10.75 | 39.01 | 46.00 | -6.99 | Peak | 100 | 0 |
| | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

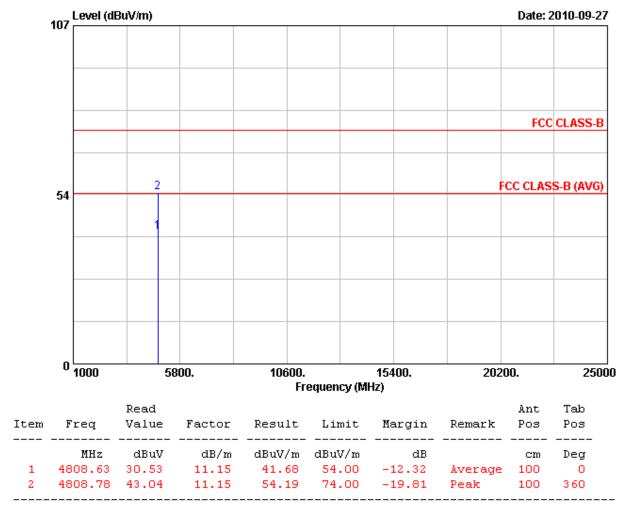
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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|----------------------------|---------------|----------|
| Test Mode 2 : | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

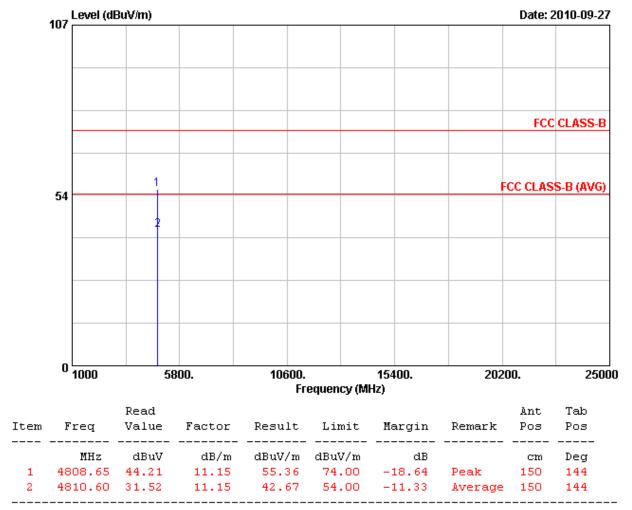
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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|---------------|----------------------------|---------------|------------|
| Test Mode 2 : | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |

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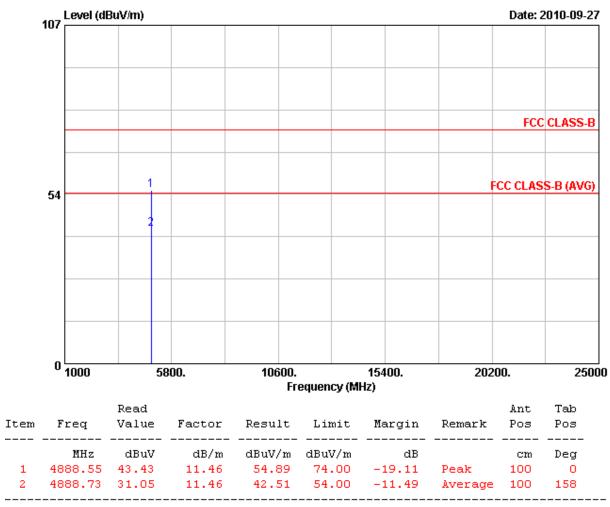
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|----------------------------|---------------|----------|
| Test Mode 2 : | O-QPSK (Boost), CH9 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHzand video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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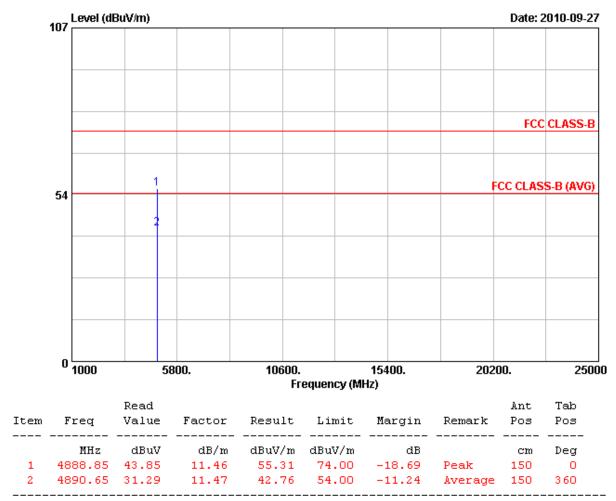
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Date: 2010-09-27

| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|---------------|----------------------------|---------------|------------|
| Test Mode 2 : | O-QPSK (Boost), CH9 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |

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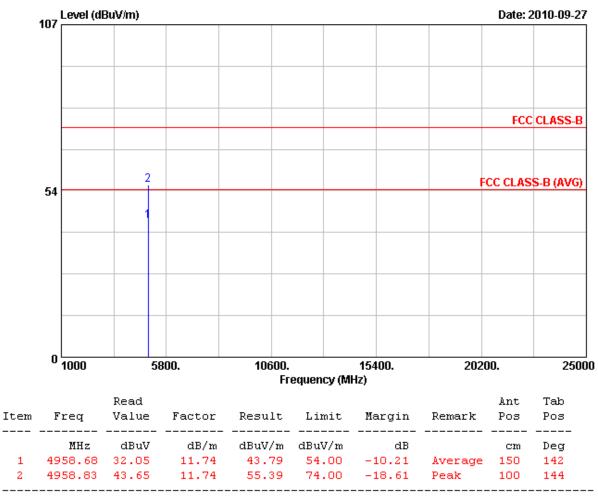
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase | : | VERTICAL |
|-------------|---|----------------------------|-------------|---|----------|
| Test Mode 2 | : | O-QPSK (Boost), CH16 | Temperature | : | 25 °C |
| Memo | : | Internal Antenna (3.74dBi) | Humidity | : | 65 % |



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

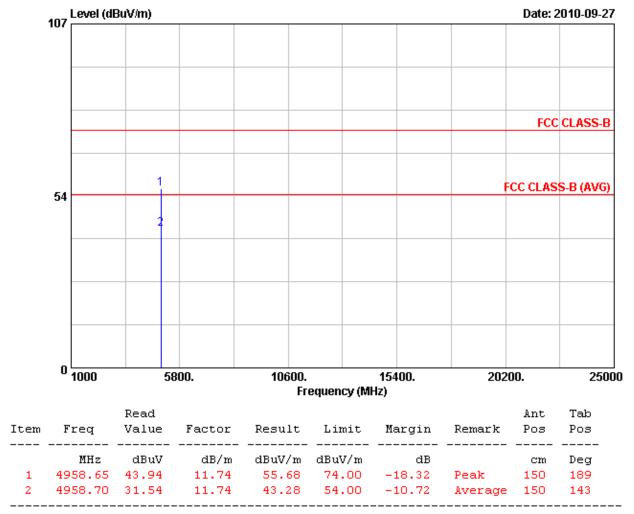
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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|---------------|----------------------------|---------------|------------|
| Test Mode 2 : | O-QPSK (Boost), CH16 | Temperature : | 25 °C |
| Memo : | Internal Antenna (3.74dBi) | Humidity : | 65 % |

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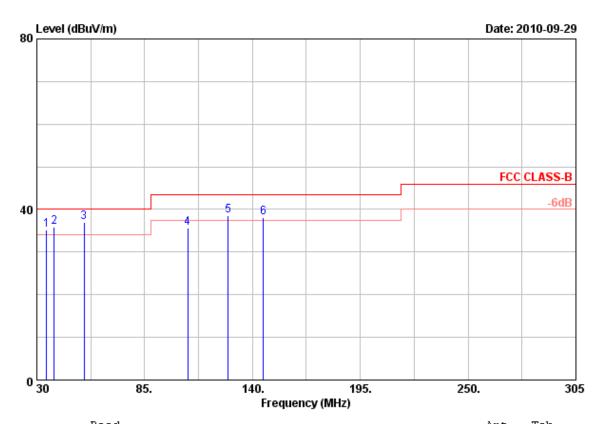
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above $1 \, \mathrm{GHz}$.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|---|-------------------------|---------------|----------|
| Test Mode 3 | : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity : | 65 % |



| | _ | Read | | | | | | Ant | Tab | |
|------|--------|-------|--------|--------|--------|--------|--------|-------------|-----|--|
| Iter | m Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos | |
| | | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | $^{\rm cm}$ | Deg | |
| 1 | 34.95 | 39.76 | -4.44 | 35.32 | 40.00 | -4.68 | QP | 100 | 360 | |
| 2 | 38.80 | 43.41 | -7.43 | 35.98 | 40.00 | -4.02 | QP | 100 | 360 | |
| 3 | 54.20 | 52.34 | -15.41 | 36.93 | 40.00 | -3.07 | QP | 100 | 360 | |
| 4 | 107.00 | 47.28 | -11.73 | 35.55 | 43.50 | -7.95 | Peak | 100 | 360 | |
| 5 | 127.63 | 46.14 | -7.52 | 38.62 | 43.50 | -4.88 | QP | 100 | 360 | |
| 6 | 145.50 | 47.72 | -9.55 | 38.17 | 43.50 | -5.33 | QP | 100 | 360 | |
| | | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

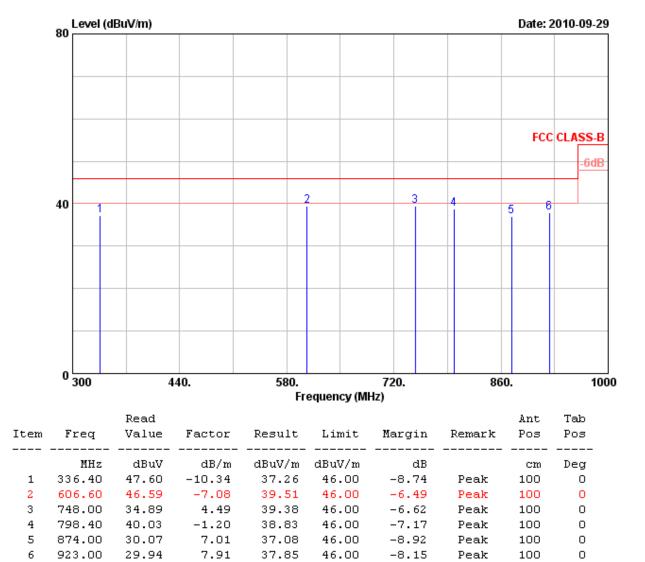
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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|-------------------------|---------------|----------|
| Test Mode 3 : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo : | External Antenna (5dBi) | Humidity : | 65 % |



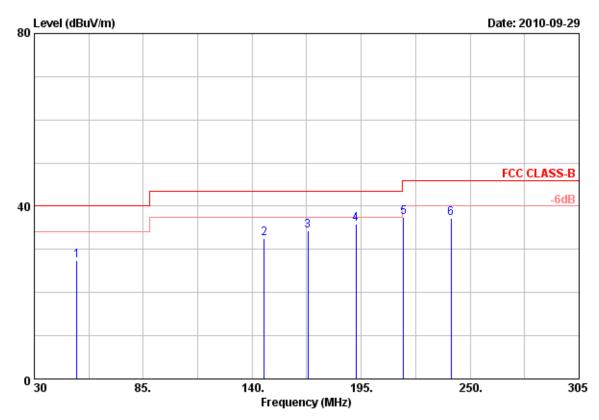
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power | AC 120V | Pol/Phase | HORIZONTAL |
|-------------|-------------------------|-------------|------------|
| Test Mode 3 | O-QPSK (Normal), CH1 | Temperature | 25 °C |
| Memo | External Antenna (5dBi) | Humidity | 65 % |

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| | | Read | | | | | | Ant | Tab |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 51.45 | 42.40 | -14.95 | 27.45 | 40.00 | -12.55 | Peak | 100 | 360 |
| 2 | 146.05 | 50.41 | -17.95 | 32.46 | 43.50 | -11.04 | Peak | 100 | 360 |
| 3 | 168.05 | 55.32 | -21.09 | 34.23 | 43.50 | -9.27 | Peak | 100 | 360 |
| 4 | 192.25 | 54.25 | -18.37 | 35.88 | 43.50 | -7.62 | Peak | 100 | 360 |
| 5 | 216.45 | 54.08 | -16.55 | 37.53 | 46.00 | -8.47 | Peak | 100 | 360 |
| 6 | 240.38 | 52.64 | -15.37 | 37.27 | 46.00 | -8.73 | Peak | 100 | 360 |
| | | | | | | | | | |

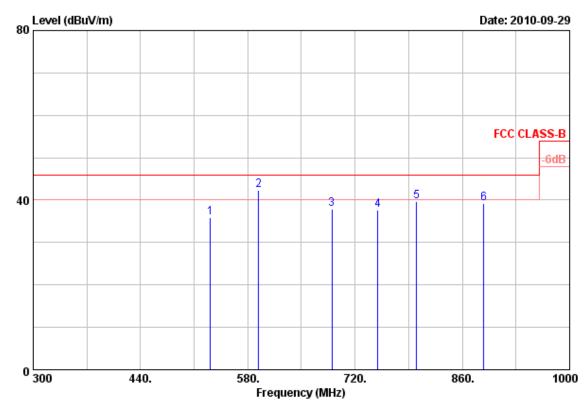
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|-------------------------|---------------|------------|
| Test Mode 3 | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo : | External Antenna (5dBi) | Humidity : | 65 % |



| | | Read | | | | | | Ant | Tab |
|------|----------------|-------|--------|--------|--------|--------|--------|-----|-----|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
| | | | | | | | | | |
| | \mathtt{MHz} | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 531.00 | 39.27 | -3.42 | 35.85 | 46.00 | -10.15 | Peak | 100 | 0 |
| 2 | 594.00 | 41.85 | 0.44 | 42.29 | 46.00 | -3.71 | QP | 100 | 0 |
| 3 | 689.90 | 33.69 | 4.22 | 37.91 | 46.00 | -8.09 | Peak | 100 | 0 |
| 4 | 749.40 | 31.20 | 6.39 | 37.59 | 46.00 | -8.41 | Peak | 100 | 0 |
| 5 | 800.50 | 36.14 | 3.46 | 39.60 | 46.00 | -6.40 | Peak | 100 | 0 |
| 6 | 888.00 | 28.81 | 10.34 | 39.15 | 46.00 | -6.85 | Peak | 100 | 0 |
| | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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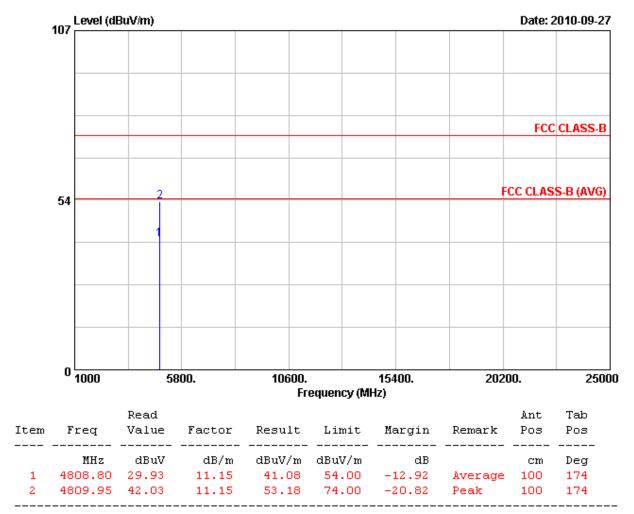
Cerpass Technology Corp.

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| Power | : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|---|-------------------------|---------------|----------|
| Test Mode 3 | : | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity : | 65 % |



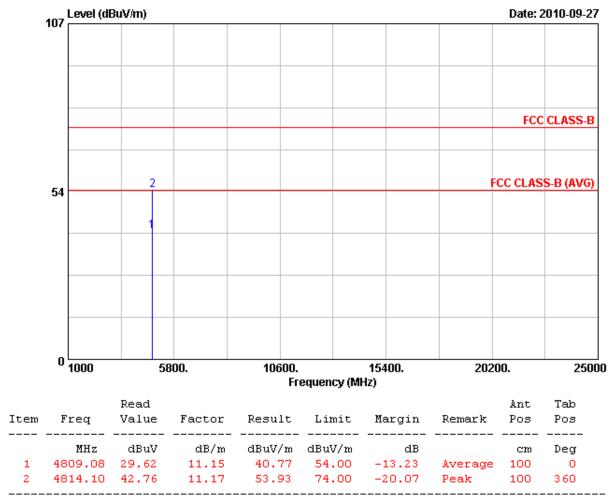
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|---|-------------------------|---------------|------------|
| Test Mode 3 | | O-QPSK (Normal), CH1 | Temperature : | 25 °C |
| Memo | | External Antenna (5dBi) | Humidity : | 65 % |



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

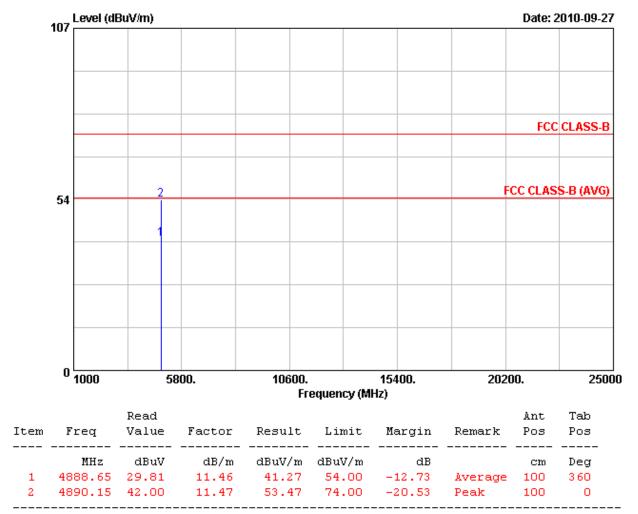
Cerpass Technology Corp. Issued date : Oct. 15, 2010

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| Power | : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|---|-------------------------|---------------|----------|
| Test Mode 3 | : | O-QPSK (Normal), CH9 | Temperature : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity : | 65 % |

Issued date : Oct. 15, 2010



Notes:

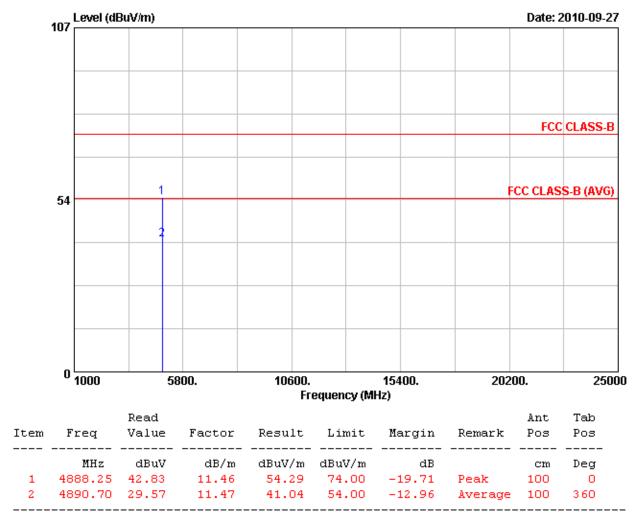
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|-------------------------|---------------|------------|
| Test Mode 3 | O-QPSK (Normal), CH9 | Temperature : | 25 °C |
| Memo | External Antenna (5dBi) | Humidity : | 65 % |

Issued date : Oct. 15, 2010



Notes:

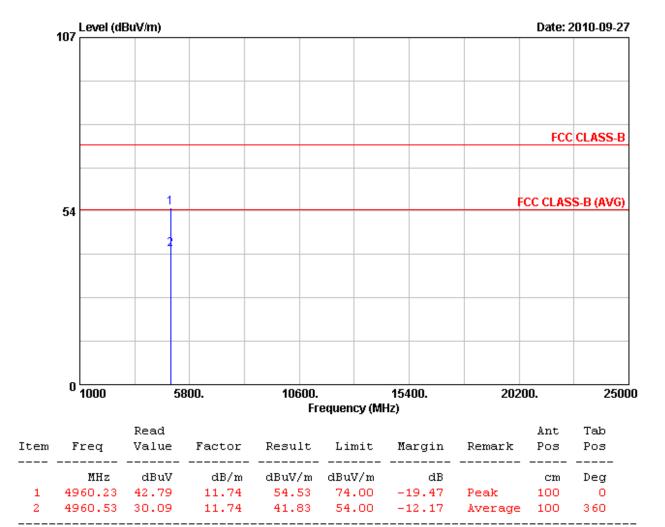
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|---|-------------------------|---------------|----------|
| Test Mode 3 | : | O-QPSK (Normal), CH16 | Temperature : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity : | 65 % |

Issued date : Oct. 15, 2010



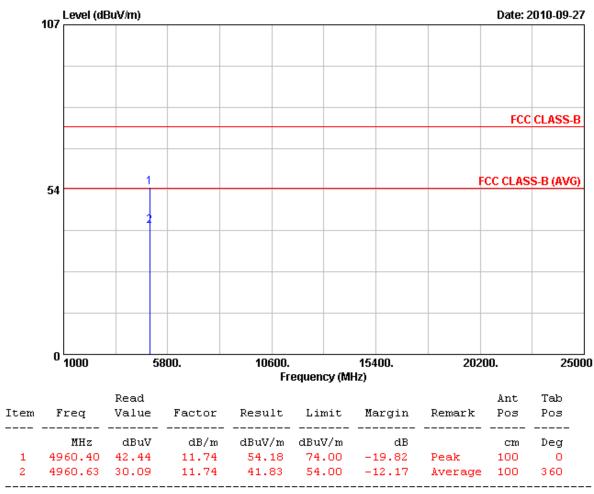
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above $10\,\mathrm{Hz}$
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|---|-------------------------|---------------|------------|
| Test Mode 3 | | O-QPSK (Normal), CH16 | Temperature : | 25 °C |
| Memo | | External Antenna (5dBi) | Humidity : | 65 % |



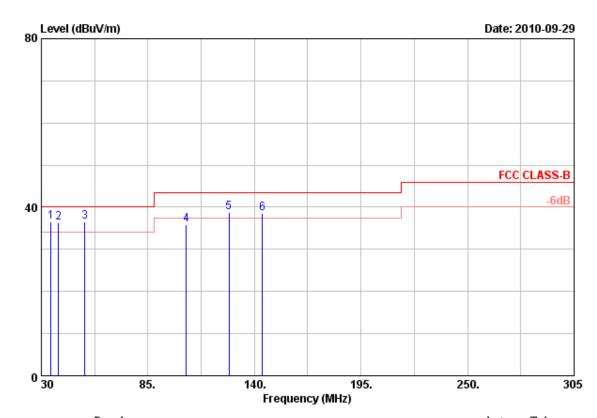
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | AC 120V | Pol/Phase : | VERTICAL |
|-------------|-------------------------|---------------|----------|
| Test Mode 4 | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo | External Antenna (5dBi) | Humidity : | 65 % |



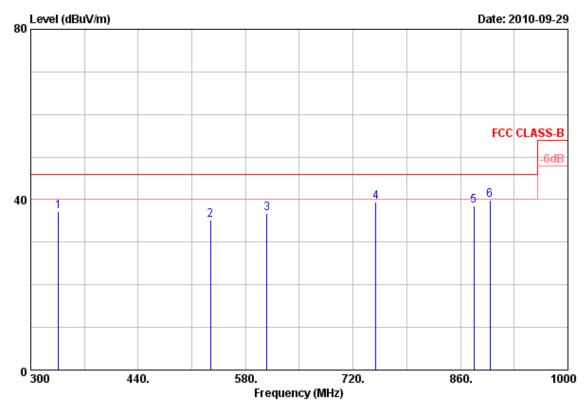
| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark | Ant Pos | Tab Pos | |
|------|--------|---------------|--------|--------|--------|--------|--------|------------|------------|--|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 34.95 | 41.01 | -4.44 | 36.57 | 40.00 | -3.43 | QP | 100 | 360 | |
| 2 | 38.80 | 43.84 | -7.43 | 36.41 | 40.00 | -3.59 | QP | 100 | 360 | |
| 3 | 52.55 | 51.04 | -14.47 | 36.57 | 40.00 | -3.43 | QP | 100 | 360 | |
| 4 | 104.80 | 47.70 | -11.80 | 35.90 | 43.50 | -7.60 | Peak | 100 | 360 | |
| 5 | 126.80 | 46.23 | -7.53 | 38.70 | 43.50 | -4.80 | QP | 100 | 360 | |
| 6 | 144.13 | 48.08 | -9.57 | 38.51 | 43.50 | -4.99 | QP | 100 | 360 | |
| | | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power | : | AC 120V | Pol/Phase | : | VERTICAL |
|-------------|---|-------------------------|-------------|---|----------|
| Test Mode 4 | : | O-QPSK (Boost), CH1 | Temperature | | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity | | 65 % |



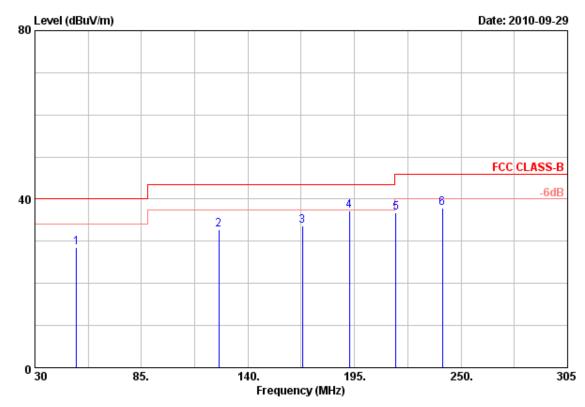
| | | Read | | | | | | Ant | Tab |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 336.40 | 47.66 | -10.34 | 37.32 | 46.00 | -8.68 | Peak | 100 | 0 |
| 2 | 534.50 | 41.20 | -6.02 | 35.18 | 46.00 | -10.82 | Peak | 100 | 0 |
| 3 | 608.00 | 43.65 | -6.89 | 36.76 | 46.00 | -9.24 | Peak | 100 | 0 |
| 4 | 749.40 | 34.45 | 5.09 | 39.54 | 46.00 | -6.46 | Peak | 100 | 0 |
| 5 | 877.50 | 32.16 | 6.49 | 38.65 | 46.00 | -7.35 | Peak | 100 | 0 |
| 6 | 898.50 | 35.51 | 4.41 | 39.92 | 46.00 | -6.08 | Peak | 100 | 0 |
| | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|-------------------------|---------------|------------|
| Test Mode 4 | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo | External Antenna (5dBi) | Humidity : | 65 % |



| | | Read | | | | | | Ant | Tab |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 51.45 | 43.40 | -14.95 | 28.45 | 40.00 | -11.55 | Peak | 100 | 360 |
| 2 | 124.88 | 48.54 | -15.81 | 32.73 | 43.50 | -10.77 | Peak | 100 | 360 |
| 3 | 168.05 | 54.69 | -21.09 | 33.60 | 43.50 | -9.90 | Peak | 100 | 360 |
| 4 | 192.25 | 55.56 | -18.37 | 37.19 | 43.50 | -6.31 | Peak | 100 | 360 |
| 5 | 216.45 | 53.22 | -16.55 | 36.67 | 46.00 | -9.33 | Peak | 100 | 360 |
| 6 | 240.38 | 53.23 | -15.37 | 37.86 | 46.00 | -8.14 | Peak | 100 | 360 |
| | | | | | | | | | |

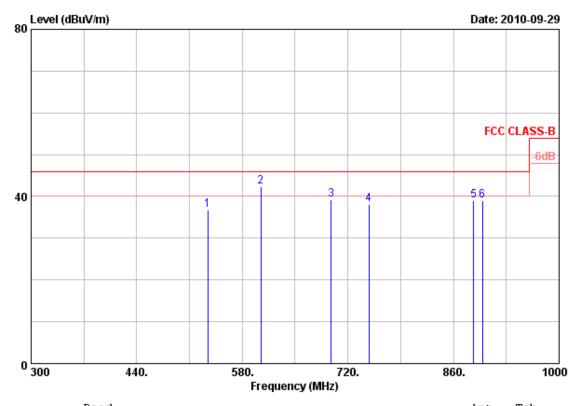
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power | : | AC 120V | Pol/Phase | : | HORIZONTAL |
|-------------|---|-------------------------|-------------|---|------------|
| Test Mode 4 | : | O-QPSK (Boost), CH1 | Temperature | : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity | : | 65 % |

Issued date : Oct. 15, 2010



| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark | Ant Pos | Tab Pos | |
|------|--------|---------------|--------|--------|--------|--------|--------|------------|------------|--|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 534.50 | 39.58 | -2.91 | 36.67 | 46.00 | -9.33 | Peak | 100 | 0 | |
| 2 | 604.50 | 41.97 | 0.44 | 42.41 | 46.00 | -3.59 | QP | 100 | 0 | |
| 3 | 697.60 | 35.31 | 3.91 | 39.22 | 46.00 | -6.78 | Peak | 100 | 0 | |
| 4 | 748.00 | 31.79 | 6.41 | 38.20 | 46.00 | -7.80 | Peak | 100 | 0 | |
| 5 | 886.60 | 28.51 | 10.50 | 39.01 | 46.00 | -6.99 | Peak | 100 | 0 | |
| 6 | 898.50 | 28.34 | 10.72 | 39.06 | 46.00 | -6.94 | Peak | 100 | 0 | |
| | | | | | | | | | | |

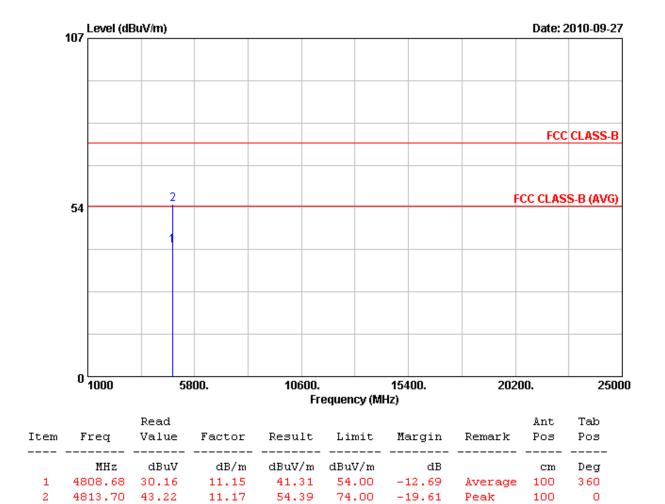
Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. According to technical experiences, all spurious emission of FSK mode at channel 1,9,16 are almost the same below 1GHz, so that the channel 1 was chosen as representative in final test.
- 5. The data is worse case.

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| Power | AC 120V | Pol/Phase : | VERTICAL |
|-------------|-------------------------|---------------|----------|
| Test Mode 4 | O-QPSK (Boost), CH1 | Temperature : | 25 °C |
| Memo | External Antenna (5dBi) | Humidity : | 65 % |

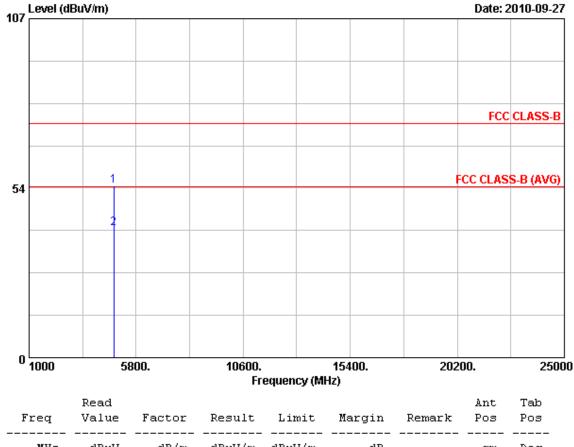


- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | : | HORIZONTAL |
|-------------|---|-------------------------|---------------|---|------------|
| Test Mode 4 | : | O-QPSK (Boost), CH1 | Temperature : | : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity : | : | 65 % |



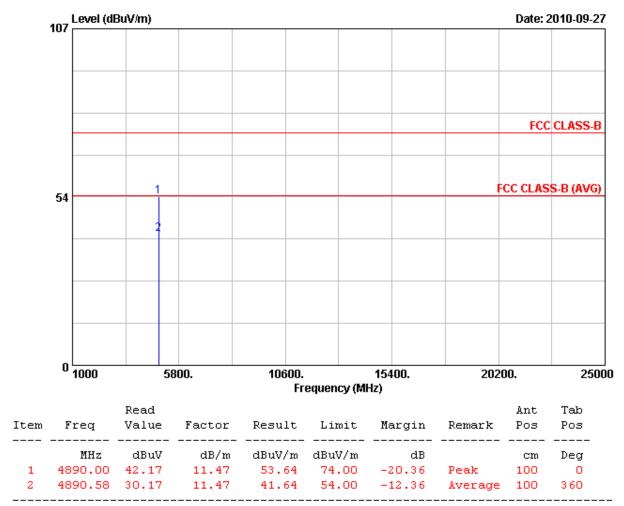
| Item | Freq | Kead Value | Factor | Result | Limit | Margin | Remark | Ant Pos | Pos | |
|------|----------------|---------------|---------------|-----------------|-----------------|--------------|---------|------------|----------|--|
| 1 | MHz 4808.20 | dBuV 43.18 | dB/m 11.15 | dBuV/m 54.33 | dBuV/m 74.00 | dB -19.67 | Peak | cm 100 | Deg 0 | |
| 2 | 4808.65 | 29.57 | 11.15 | 40.72 | 54.00 | -13.28 | Average | 100 | 360 | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above $10\rm{Hz}$
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | AC 120V | Pol/Phase : | VERTICAL |
|-------------|-------------------------|---------------|----------|
| Test Mode 4 | O-QPSK (Boost), CH9 | Temperature : | 25 °C |
| Memo | External Antenna (5dBi) | Humidity : | 65 % |



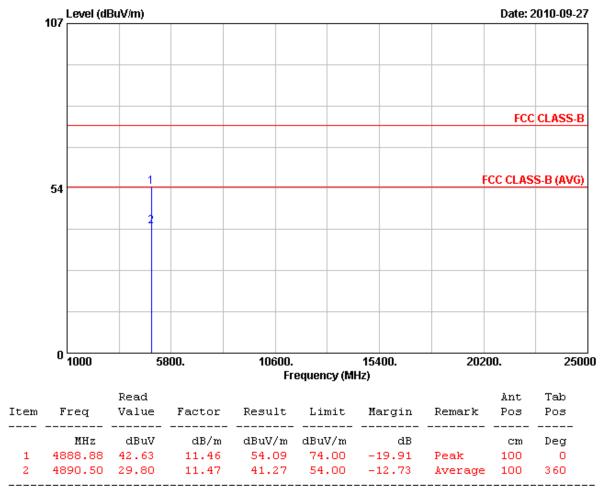
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | AC 120V | Pol/Phase : | : | HORIZONTAL |
|-------------|---|-------------------------|---------------|---|------------|
| Test Mode 4 | : | O-QPSK (Boost), CH9 | Temperature : | : | 25 °C |
| Memo | : | External Antenna (5dBi) | Humidity : | : | 65 % |



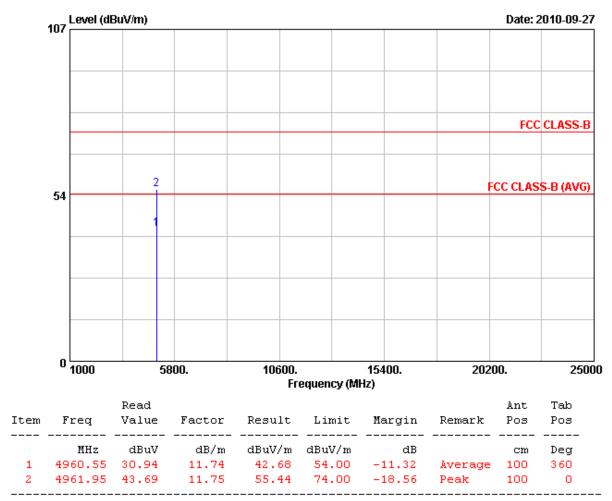
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHzand video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|-------------------------|---------------|----------|
| Test Mode 4 : | O-QPSK (Boost), CH16 | Temperature : | 25 °C |
| Memo : | External Antenna (5dBi) | Humidity : | 65 % |



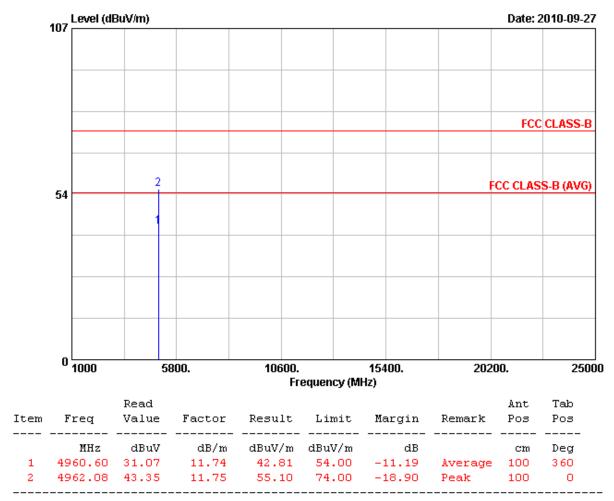
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|-------------------------|---------------|------------|
| Test Mode 4 | O-QPSK (Boost), CH16 | Temperature : | 25 °C |
| Memo : | External Antenna (5dBi) | Humidity : | 65 % |



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Test engineer: Ben

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5.6 Test Photographs



Front View



Rear View

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6. 6dB Bandwidth Measurement Data

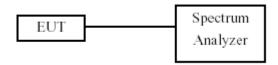
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement Equipment

| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|------------------|------------|
| Spectrum Analyzer | R&S | FSP40 | 100219 | 2009/11/20 | 2010/11/19 |

6.5 Test Result and Data

Test Date: Sep. 28, 2010 Temperature: 25 Atmospheric pressure: 1020 hPa Humidity: 65%

| Modulation Standard | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |
|---------------------|---------|--------------------|------------------------|
| | 01 | 2405 | 1.56 |
| O-QPSK (Normal) | 09 | 2445 | 1.56 |
| | 16 | 2480 | 1.56 |
| | 01 | 2405 | 1.56 |
| O-QPSK (Boost) | 09 | 2445 | 1.52 |
| | 16 | 2480 | 1.60 |

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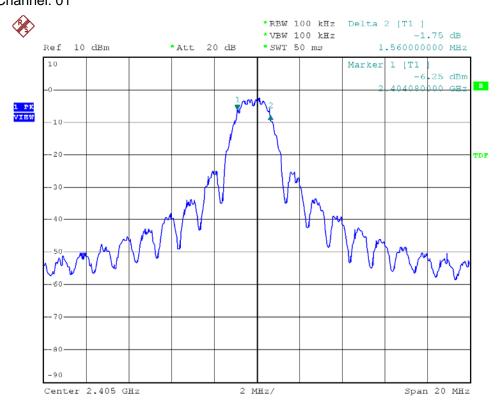
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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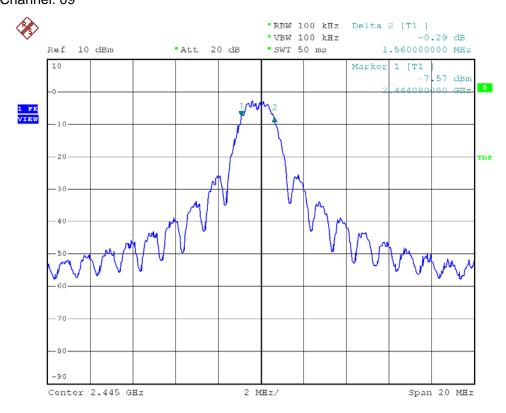
Page No.



Modulation Standard: O-QPSK (Normal) Channel: 01



Modulation Standard: O-QPSK (Normal) Channel: 09



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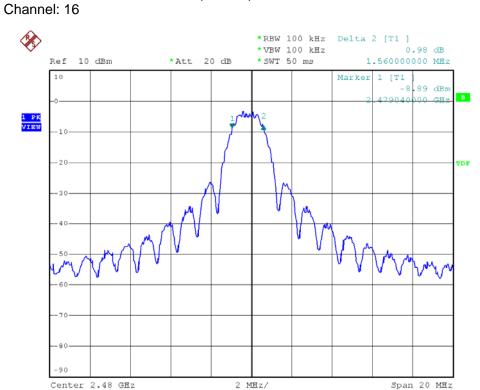
Issued date : Oct. 15, 2010

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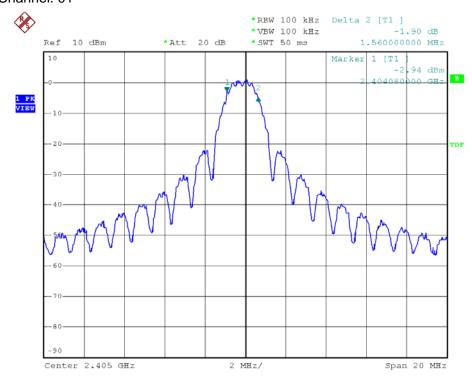
Page No.



Modulation Standard: O-QPSK (Normal)



Modulation Standard: O-QPSK (Boost) Channel: 01



Tel:886-2-2655-8100 Fax:886-2-2655-8200

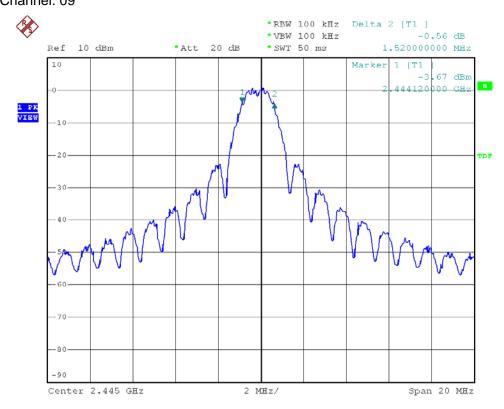
Issued date : Oct. 15, 2010

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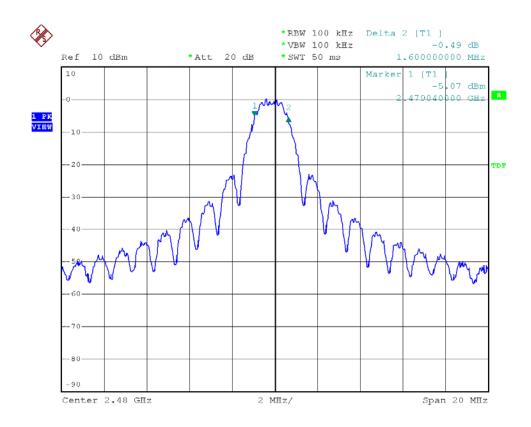


Modulation Standard: O-QPSK (Boost) Channel: 09



Modulation Standard: O-QPSK (Boost)

Channel: 16



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7. Maximum Peak Output Power

7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

7.3 Test Setup Layout



7.4 Measurement Equipment

| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|------------------|------------|
| Spectrum Analyzer | R&S | FSP40 | 100219 | 2009/11/20 | 2010/11/19 |

7.5 Test Result and Data

Test Date: Sep. 28, 2010 Temperature: 25
Atmospheric pressure: 1020 hPa Humidity: 65%

| Modulation Standard | Channel | Frequency (MHz) | Peak Power Output (dBm) | Peak Power Output (mW) |
|------------------------|---------|--------------------|----------------------------|---------------------------|
| O-QPSK (Normal) | 01 | 2405 | 3.90 | 2.50 |
| | 09 | 2445 | 3.03 | 2.00 |
| (Normal) | 16 | 6 2480 2.36 | 1.70 | |
| O-QPSK (Boost) | 01 | 2405 | 6.76 | 4.70 |
| | 09 | 2445 | 6.20 | 4.20 |
| | 16 | 2480 | 2.86 | 1.90 |

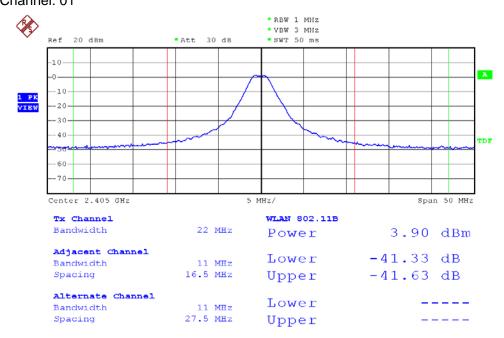
Cerpass Technology Corp. Issued date : Oct. 15, 2010

Tel:886-2-2655-8100 Fax:886-2-2655-8200

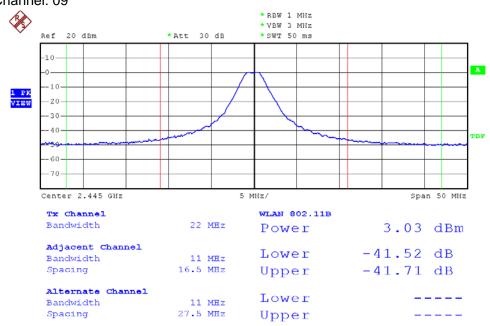
Issued date : Oct. 15, 2010



Modulation Standard: O-QPSK (Normal) Channel: 01



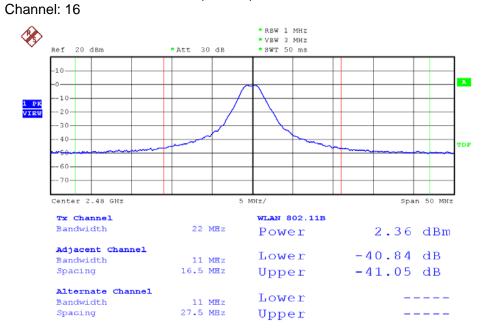
Modulation Standard: O-QPSK (Normal) Channel: 09



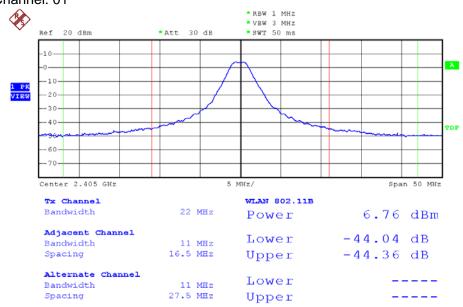
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Modulation Standard: O-QPSK (Normal)



Modulation Standard: O-QPSK (Boost) Channel: 01



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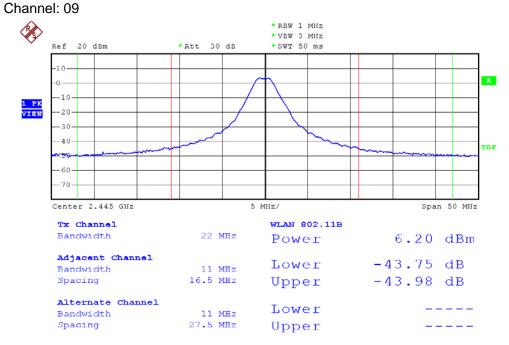
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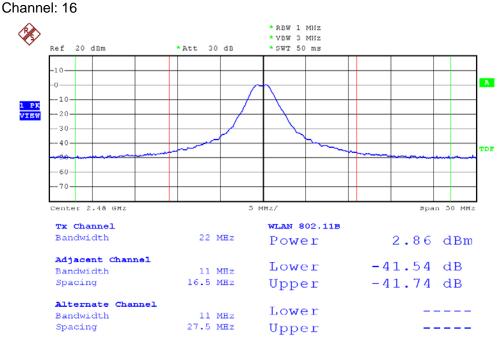
Issued date : Oct. 15, 2010



Modulation Standard: O-QPSK (Boost)



Modulation Standard: O-QPSK (Boost)



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8. Power Spectral Density

8.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

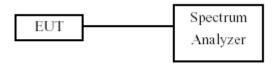
8.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.

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- c. The power spectral density was measured and recorded.
- d. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

8.3 Test Setup Layout



8.4 Measurement Equipment

| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|------------------|------------|
| Spectrum Analyzer | R&S | FSP40 | 100219 | 2009/11/20 | 2010/11/19 |

8.5 Test Result and Data

Test Date: Sep. 28, 2010 Temperature: 25
Atmospheric pressure: 1020 hPa Humidity: 65%

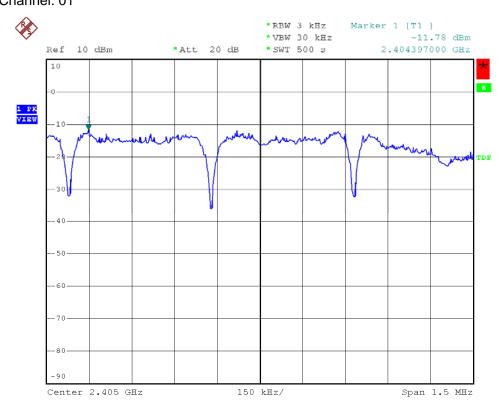
| Modulation Standard | Channel | Frequency (MHz) | Maximum Power Density of 3 kHz Bandwidth (dBm) |
|---------------------|---------|--------------------|--|
| | 01 | 2405 | -11.78 |
| O-QPSK (Normal) | 09 | 2445 | -12.61 |
| | 16 | 2480 | -13.50 |
| | 01 | 2405 | -8.96 |
| O-QPSK (Boost) | 09 | 2445 | -10.43 |
| | 16 | 2480 | -10.74 |

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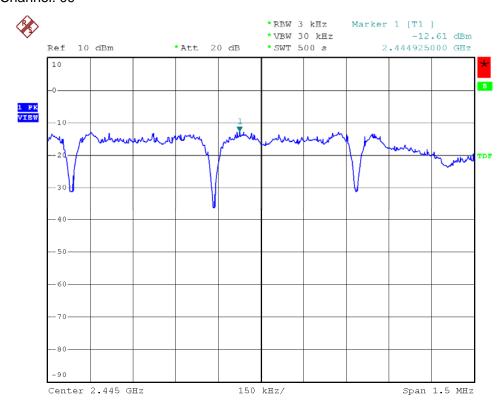
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Modulation Standard: O-QPSK (Normal) Channel: 09



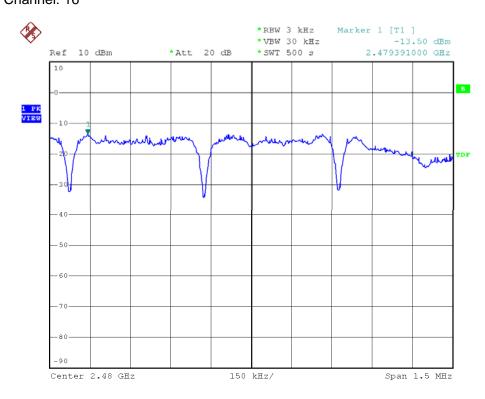
Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date : Oct. 15, 2010

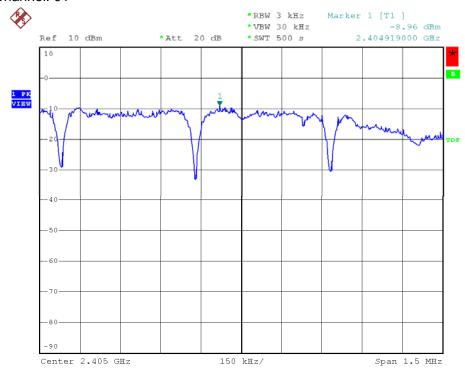
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Modulation Standard: O-QPSK (Boost) Channel: 01

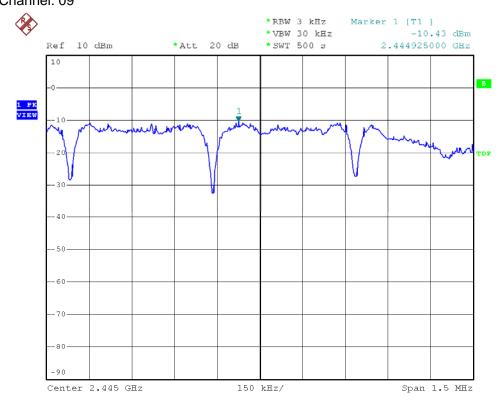


Tel:886-2-2655-8100 Fax:886-2-2655-8200

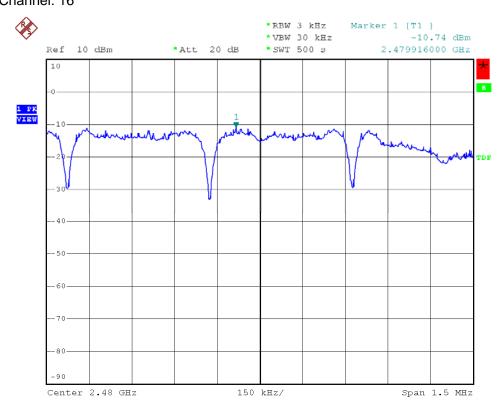
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Modulation Standard: O-QPSK (Boost) Channel: 09



Modulation Standard: O-QPSK (Boost) Channel: 16



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9. Band Edges Measurement

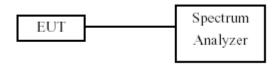
Test Limit

Below –20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

9.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. The band edges was measured and recorded.

9.3 Test Setup Layout



9.4 Measurement Equipment

| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|------------------|------------|
| Spectrum Analyzer | R&S | FSP40 | 100219 | 2009/11/20 | 2010/11/19 |

9.5 Test Result and Data

Test Date: Sep. 28, 2010 Temperature: 25 Atmospheric pressure: 1020 hPa Humidity: 65%

| Modulation Standard | Channel | Frequency (MHz) | maximum value in frequency (MHz) | maximum value (dBm) |
|------------------------|---------|--------------------|----------------------------------|---------------------|
| O-QPSK | 01 | 2405 | 2400.00 | -41.95 |
| (Normal) | 16 | 2480 | 2483.70 | -39.46 |
| O-QPSK | 01 | 2405 | 2400.00 | -39.64 |
| (Boost) | 16 | 2480 | 2483.70 | -36.04 |

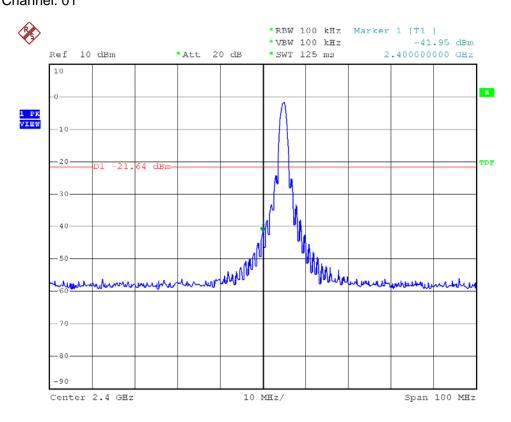
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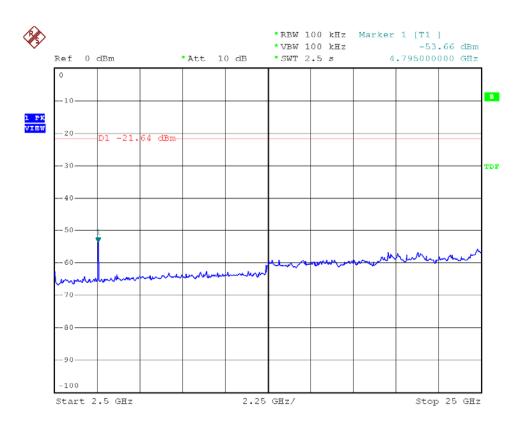
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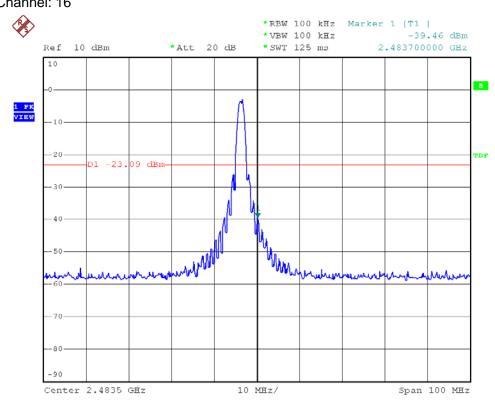
Tel:886-2-2655-8100 Fax:886-2-2655-8200

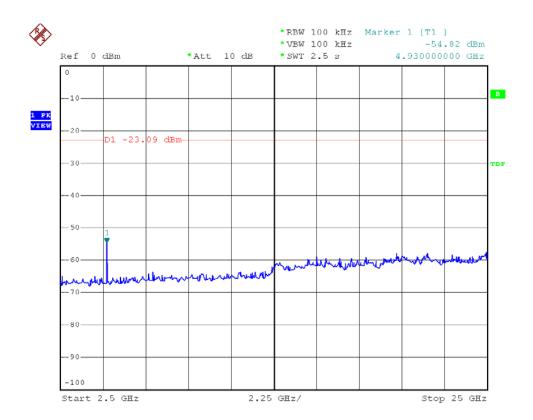
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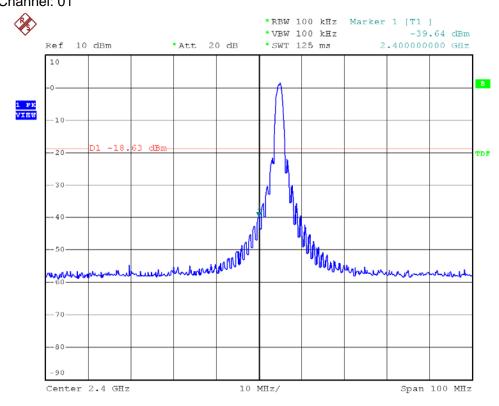


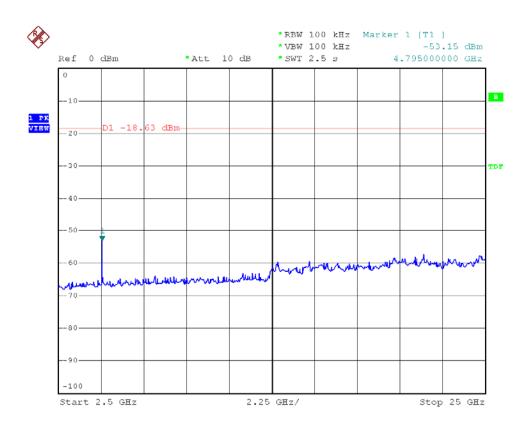
Tel:886-2-2655-8100 Fax:886-2-2655-8200

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Modulation Standard: O-QPSK (Boost) Channel: 01





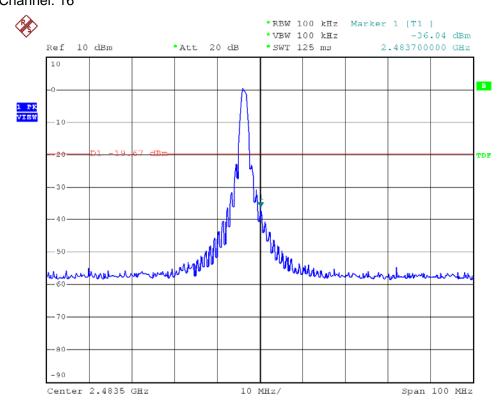
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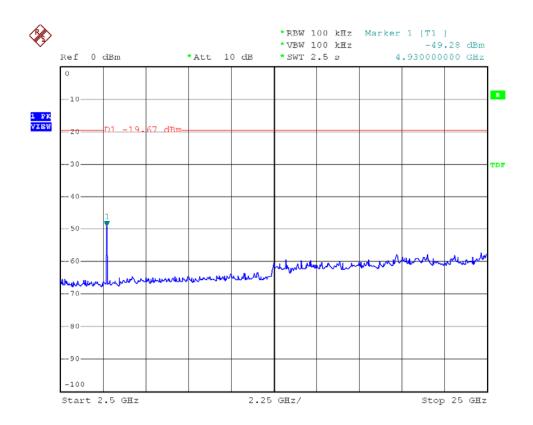
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Modulation Standard: O-QPSK (Boost) Channel: 16





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10. Restrict Band Emission Measurement Data

Temperature: 25 Test Date: Sep. 27, 2010 Humidity: 65% Atmospheric pressure: 1020 hPa

Modulation Standard: O-QPSK (Normal), Internal Antenna (3.74dBi)

| Channel 1 | Channel 1 Fundamental Frequency: 2412 MHz | | | | | | | | 412 MHz | |
|-----------|---|-------------------|-------------|----------|--------|----------|--------|-----------|----------|----------|
| Frequency | | Meter Reading | Corrected | Result | Remark | Limit (d | BuV/m) | | Table | Ant High |
| (MHz) | H/V | (dBuV) | Factor (dB) | (dBuV/m) | | Peak | Ave | (dB) | Deg. | (m) |
| 2377.64 | Н | 46.18 | 1.86 | 48.04 | Peak | 74 | 54 | -25.96 | 209 | 1.50 |
| 2389.80 | Η | 32.61 | 1.91 | 34.52 | Ave | 74 | 54 | -19.48 | 209 | 1.50 |
| 2389.04 | V | 48.21 | 1.91 | 50.12 | Peak | 74 | 54 | -23.88 | 187 | 1.00 |
| 2389.80 | ٧ | 32.65 | 1.91 | 34.56 | Ave | 74 | 54 | -19.44 | 187 | 1.00 |
| Channel 1 | 1 | | | | | Fu | ndamen | tal Frequ | ency: 24 | 462 MHz |
| Frequency | Ant-Pol | Meter | Corrected | Result | D | | BuV/m) | Margin | Table | Ant High |
| (MHz) | H/V | Reading (dBuV) | Factor (dB) | (dBuV/m) | Remark | Peak | Ave | (dB) | Deg. | (m) |
| 2483.50 | Н | 58.94 | 2.29 | 61.23 | Peak | 74 | 54 | -12.77 | 214 | 1.50 |
| 2483.50 | Η | 48.99 | 2.29 | 51.28 | Ave | 74 | 54 | -2.72 | 214 | 1.50 |
| 2483.50 | V | 57.02 | 2.29 | 59.31 | Peak | 74 | 54 | -14.69 | 218 | 1.50 |
| 2483.50 | V | 47.11 | 2.29 | 49.40 | Ave | 74 | 54 | -4.60 | 218 | 1.50 |

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Modulation Standard: O-QPSK (Boost), Internal Antenna (3.74dBi)

| Channel 1 | | | | | | Fu | ndamen | tal Frequ | ency: 24 | 412 MHz |
|-----------|---------|------------------|-------------|----------|--------|----------|--------|-----------|----------|----------|
| Frequency | | Meter Reading | Corrected | Result | Remark | Limit (d | BuV/m) | Margin | Table | Ant High |
| (MHz) | H/V | (dBuV) | Factor (dB) | (dBuV/m) | | Peak | Ave | (dB) | Deg. | (m) |
| 2324.73 | Н | 46.55 | 1.61 | 48.19 | Peak | 74 | 54 | -25.81 | 226 | 1.50 |
| 2389.80 | Н | 33.14 | 1.91 | 35.05 | Ave | 74 | 54 | -18.95 | 226 | 1.50 |
| 2387.43 | V | 49.26 | 1.90 | 51.16 | Peak | 74 | 54 | -22.84 | 188 | 1.00 |
| 2389.33 | V | 32.73 | 1.91 | 34.64 | Ave | 74 | 54 | -19.36 | 188 | 1.00 |
| Channel 1 | 1 | | | | | Fu | ndamen | tal Frequ | ency: 24 | 462 MHz |
| Frequency | Ant-Pol | Meter Reading | Corrected | Result | Remark | Limit (d | BuV/m) | Margin | Table | Ant High |
| (MHz) | H/V | (dBuV) | Factor (dB) | (dBuV/m) | Remaik | Peak | Ave | (dB) | Deg. | (m) |
| 2483.50 | Н | 59.11 | 2.29 | 61.40 | Peak | 74 | 54 | -12.60 | 214 | 1.50 |
| 2483.50 | Н | 49.60 | 2.29 | 51.89 | Ave | 74 | 54 | -2.11 | 214 | 1.50 |
| 2483.60 | V | 56.98 | 2.29 | 59.27 | Peak | 74 | 54 | -14.73 | 216 | 1.50 |
| 2483.50 | V | 46.96 | 2.29 | 49.25 | Ave | 74 | 54 | -4.75 | 216 | 1.50 |

Notes:

- 1. Result = Meter Reading + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10 MHz for Average detection at frequency above 1GHz.

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Test Date: Sep. 27, 2010 Temperature: 25 Atmospheric pressure: 1020 hPa Humidity: 65%

Modulation Standard: O-QPSK (Normal), External Antenna (5dBi)

| Channel 1 | Channel 1 Fundamental Frequency: 2412 MHz | | | | | | | | | |
|-----------|---|-------------------|-------------|----------|--------|----------------|--------|-----------|----------|----------|
| Frequency | Ant-Pol | Meter Reading | Corrected | Result | Remark | Limit (dBuV/m) | | Margin | Table | Ant High |
| (MHz) | H/V | (dBuV) | Factor (dB) | (dBuV/m) | | Peak | Ave | (dB) | Deg. | (m) |
| 2355.79 | Н | 47.74 | 1.77 | 49.51 | Peak | 74 | 54 | -24.49 | 152 | 1.50 |
| 2389.80 | Н | 34.10 | 1.91 | 36.01 | Ave | 74 | 54 | -17.99 | 152 | 1.50 |
| 2389.99 | V | 49.11 | 1.91 | 36.97 | Peak | 74 | 54 | -22.98 | 246 | 1.50 |
| 2389.80 | V | 35.06 | 1.91 | 36.97 | Ave | 74 | 54 | -17.03 | 246 | 1.50 |
| Channel 1 | 1 | | | | | Fu | ndamen | tal Frequ | ency: 24 | 462 MHz |
| Frequency | Ant-Pol | Meter | Corrected | Result | | , | BuV/m) | Margin | Table | Ant High |
| (MHz) | H/V | Reading (dBuV) | Factor (dB) | (dBuV/m) | Remark | Peak | Ave | (dB) | Deg. | (m) |
| 2483.50 | Н | 54.59 | 2.29 | 56.88 | Peak | 74 | 54 | -17.12 | 142 | 1.50 |
| 2483.50 | Н | 43.66 | 2.29 | 45.95 | Ave | 74 | 54 | -8.05 | 142 | 1.50 |
| 2483.52 | V | 59.87 | 2.29 | 62.16 | Peak | 74 | 54 | -11.84 | 355 | 1.50 |
| 2483.50 | V | 49.61 | 2.29 | 51.90 | Ave | 74 | 54 | -2.10 | 355 | 1.50 |

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Modulation Standard: O-QPSK (Boost), External Antenna (5dBi)

| Channel 1 | | | | | | Fu | ndamen | tal Frequ | ency: 24 | 412 MHz |
|-----------|---------|-------------------|-------------|----------|--------|----------|--------|-----------|----------|----------|
| Frequency | Ant-Pol | Meter Reading | Corrected | Result | Remark | Limit (d | BuV/m) | | Table | Ant High |
| (MHz) | H/V | (dBuV) | Factor (dB) | (dBuV/m) | | Peak | Ave | (dB) | Deg. | (m) |
| 2373.84 | Н | 47.04 | 1.81 | 48.88 | Peak | 74 | 54 | -25.12 | 172 | 1.50 |
| 2389.80 | Н | 34.59 | 1.91 | 36.50 | Ave | 74 | 54 | -17.50 | 172 | 1.50 |
| 2381.06 | V | 48.22 | 1.88 | 50.10 | Peak | 74 | 54 | -23.90 | 130 | 1.50 |
| 2389.80 | V | 35.94 | 1.91 | 37.85 | Ave | 74 | 54 | -16.15 | 130 | 1.50 |
| Channel 1 | 1 | | | | | Fu | ndamen | tal Frequ | ency: 24 | 462 MHz |
| Frequency | Ant-Pol | Meter | Corrected | Result | Domork | | BuV/m) | Margin | Table | Ant High |
| (MHz) | H/V | Reading (dBuV) | Factor (dB) | (dBuV/m) | Remark | Peak | Ave | (dB) | Deg. | (m) |
| 2483.60 | Н | 54.39 | 2.29 | 56.68 | Peak | 74 | 54 | -17.32 | 142 | 1.50 |
| 2483.50 | Н | 43.83 | 2.29 | 46.12 | Ave | 74 | 54 | -7.88 | 142 | 1.50 |
| 2483.52 | V | 59.46 | 2.29 | 61.75 | Peak | 74 | 54 | -12.25 | 354 | 1.50 |
| 2483.50 | V | 49.45 | 2.29 | 51.74 | Ave | 74 | 54 | -2.26 | 354 | 1.50 |

Notes:

- 1. Result = Meter Reading + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10 MHz for Average detection at frequency above 1GHz.

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11. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|-----------------|
| 0.09000 - 0.11000 | 16.42000 - 16.42300 | 399.9 – 410.0 | 4.500 - 5.250 |
| 0.49500 - 0.505** | 16.69475 - 16.69525 | 608.0 - 614.0 | 5.350 - 5.460 |
| 2.17350 – 2.19050 | 16.80425 - 16.80475 | 960.0 – 1240.0 | 7.250 – 7.750 |
| 4.12500 – 4.12800 | 25.50000 - 25.67000 | 1300.0 – 1427.0 | 8.025 - 8.500 |
| 4.17725 – 4.17775 | 37.50000 - 38.25000 | 1435.0 – 1626.5 | 9.000 - 9.200 |
| 4.20725 – 4.20775 | 73.00000 - 74.60000 | 1645.5 – 1646.5 | 9.300 - 9.500 |
| 6.21500 - 6.21800 | 74.80000 - 75.20000 | 1660.0 – 1710.0 | 10.600 – 12.700 |
| 6.26775 - 6.26825 | 108.00000 - 121.94000 | 1718.8 – 1722.2 | 13.250 - 13.400 |
| 6.31175 – 6.31225 | 123.00000 - 138.00000 | 2200.0 – 2300.0 | 14.470 – 14.500 |
| 8.29100 - 8.29400 | 149.90000 - 150.05000 | 2310.0 – 2390.0 | 15.350 – 16.200 |
| 8.36200 - 8.36600 | 156.52475 - 156.52525 | 2483.5 – 2500.0 | 17.700 – 21.400 |
| 8.37625 - 8.38675 | 156.70000 - 156.90000 | 2655.0 – 2900.0 | 22.010 – 23.120 |
| 8.41425 – 8.41475 | 162.01250 - 167.17000 | 3260.0 - 3267.0 | 23.600 – 24.000 |
| 12.29000 – 12.29300 | 167.72000 - 173.20000 | 3332.0 - 3339.0 | 31.200 – 31.800 |
| 12.51975 – 12.52025 | 240.00000 - 285.00000 | 3345.8 - 3358.0 | 36.430 - 36.500 |
| 12.57675 – 12.57725 | 322.00000 - 335.40000 | 3600.0 - 4400.0 | Above 38.6 |
| 13.36000 – 13.41000 | | | |

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

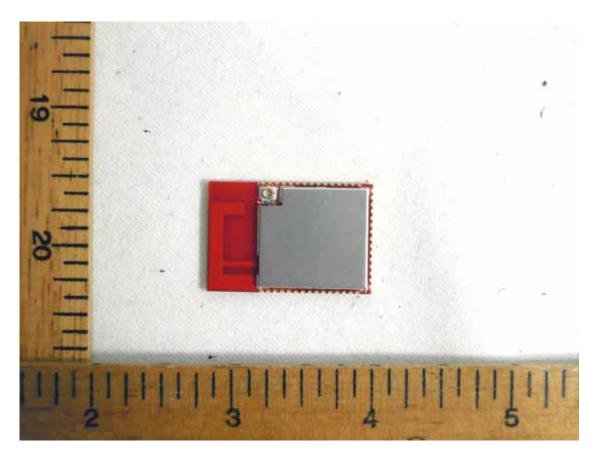
11.1 Labeling Requirement

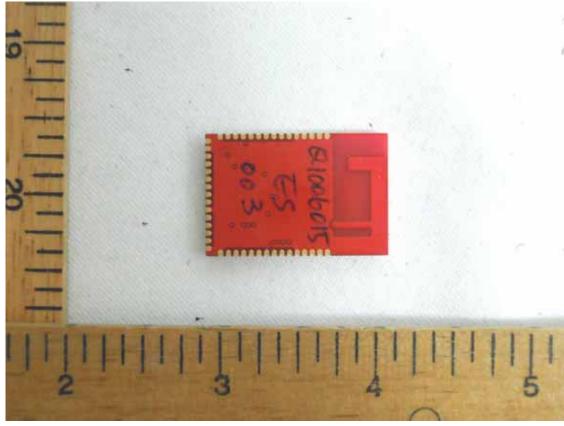
The device shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Appendix A. Photographs of EUT

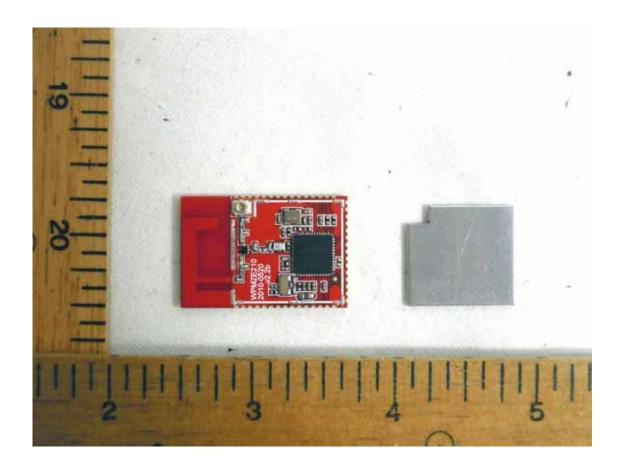


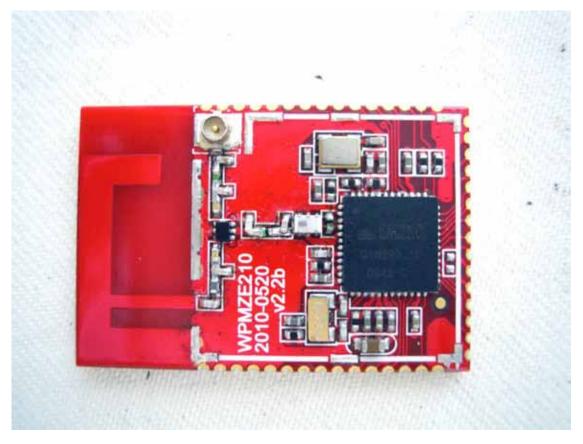


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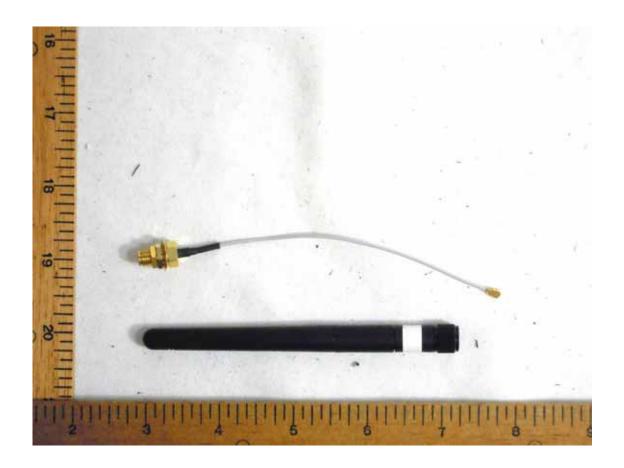




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