FCC TEST REPORT

According to

FCC Rules and Regulations

Part 15 Subpart C

Applicant : Weisetek Co., Ltd.

Address No. 370, Dasheh, Sinshih District, Tainan

74450, Taiwan, R.O.C.

Equipment : 3G Gateway

Model No. : HVC-502

FCC ID. : 2AAIVHVC-50X

Trade Name: Weisetek Co., Ltd.

- 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.

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Issued date: Jun. 24, 2013

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History of this test report

■ ORIGINAL.

 \square Additional attachment as following record:

| Attachment No. | Issue Date | Description |
|----------------|---------------|-------------|
| TEFA1305106 | Jun. 24, 2013 | Original. |
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CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations

Part 15 Subpart C

Applicant : Weisetek Co., Ltd.

Address No. 370, Dasheh, Sinshih District, Tainan 74450,

Taiwan, R.O.C.

Equipment : 3G Gateway

Model No. : HVC-502

FCC ID. : 2AAIVHVC-50X

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 (2010).

The test was carried out on Jun. 17, 2013 at Cerpass Technology Corp.

Approved by: Tested by:

Hill Chen

EMC/RF B.U. Assistant Manager En

Tom Tai

Engineer

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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) | . 6dB Bandwidth | Pass |
| 15.247(b) | . Maximum Peak Output Power | Pass |
| 15.247(d) | . 100kHz Bandwidth of Frequency Band Edges | Pass |
| 15.247(e) | . Power Spectral Density | Pass |
| 1.1307 1.1310 2.1091 2.1093 | . RF Exposure Compliance | Pass |

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2. Test Configuration of Equipment under Test

Memory

Flash 16MB

DRAM 64MB

CPU

RALINK RT5350

- On Board Temperature Sensor
- IPv6 Capability
- Optional—Integrated Battery

Embedded Linux

Environmental

IP67 Rated Enclosure

IP67 Rated Power Supply

Operating Temperature Range-5 to +55 Degrees Celsius at up to 70% Humidty

Wide Area Networks

10/100 Ethernet Connection IP67 RJ45

3G HSPA Module

Local Area Networks

Qty1 (HVC-501) Ember EM357 ZigBee Interface

Qty2 (HVC-502) Ember EM357 ZigBee Interface

Output Power +20dBm Max

Frequency Band 2.450 tp 2.480GHz, 16 channels 5MHz wide

Input Power +12VDC

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2.1 Carrier Frequency of Channels

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

2.2 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 EUT for the RF test.
- c. An executive program, "Putty" which transmits and receives data through Wireless.
- d. The following test modes was performed for RF test: CH01: 2405MHz, CH09: 2445MHz, CH16: 2480MHz

2.3 Description of Test System

| Device | Manufacturer | Model No. | Description |
|----------|--------------|---------------|----------------------------|
| Notebook | DELL | INSPIRON 510m | Adapter, Unshielding, 1.8m |

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2.4 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, TW1061, 390316, 488071 |
| IC Registration Number : | 4934B-1, 4934D-1 |
| VCCI Registration Number: | T-1173 for Telecommunication Test C-4139 for Conducted emission test R-3428 for Radiated emission test G-97 for Radiated emission test above 1GHz |
| 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. |
| Laboratory Accreditation | Testing Laboratory 1439 |

2.5 Measurement Uncertainty

| Measurement Item | Uncertainty |
|------------------------------|-------------|
| Radiated emission | ±4.11dB |
| Peak Output Power(conducted) | ±1.38dB |
| Peak Output Power(Radiated) | ±1.70dB |
| Power Spectral Density | ±1.39dB |
| Radiated emission(3m) | ±4.11dB |
| Radiated emission(10m) | ±3.89dB |

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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.

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

Antenna Type: Dipole Antenna

Antenna Gain: 2 dBi

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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 C63.4-2009 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.

| 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.
- f. 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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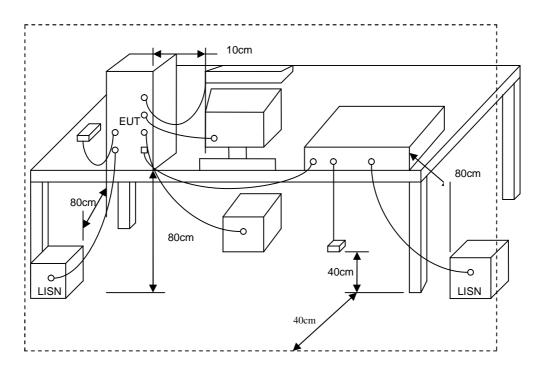
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4.3 Typical Test Setup



4.4 Test Result and Data

| Instrument | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|--------------|--------------|-----------|------------|------------------|------------|
| EMI Receiver | R&S | ESCI | 100821 | 2012/12/24 | 2013/12/23 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-516 | 2013/03/08 | 2014/03/07 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-568 | 2012/08/22 | 2013/08/21 |
| Attenuator | HAMEG | HZ560 | | 2013/03/07 | 2014/03/06 |

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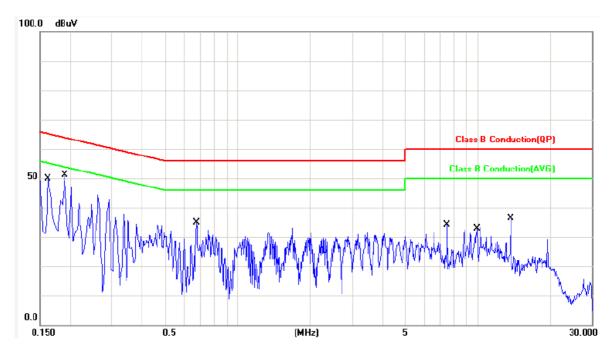
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4.5 Test Result and Data

| Power | : | AC 120V | Pol/Phase : | LINE |
|-------------|---|---------------|---------------|------|
| Test Mode 1 | : | CH01 2405MHz | Temperature : | 21°C |
| Test Date | : | Jun. 18, 2013 | Humidity : | 55 % |



| No. | Frequency (MHz) | Factor (dBuV) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|------------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.1620 | 0.12 | 46.24 | 46.36 | 65.36 | -19.00 | QP | Р |
| 2 | 0.1620 | 0.12 | 36.43 | 36.55 | 55.36 | -18.81 | AVG | Р |
| 3 | 0.1900 | 0.12 | 46.00 | 46.12 | 64.03 | -17.91 | QP | Р |
| 4 | 0.1900 | 0.12 | 36.65 | 36.77 | 54.03 | -17.26 | AVG | Р |
| 5 | 0.6740 | 0.15 | 34.99 | 35.14 | 56.00 | -20.86 | QP | Р |
| 6 | 0.6740 | 0.15 | 33.72 | 33.87 | 46.00 | -12.13 | AVG | Р |
| 7 | 7.4820 | 0.48 | 30.13 | 30.61 | 60.00 | -29.39 | QP | Р |
| 8 | 7.4820 | 0.48 | 15.65 | 16.13 | 50.00 | -33.87 | AVG | Р |
| 9 | 9.9140 | 0.58 | 18.39 | 18.97 | 60.00 | -41.03 | QP | Р |
| 10 | 9.9140 | 0.58 | 9.83 | 10.41 | 50.00 | -39.59 | AVG | Р |
| 11 | 13.7140 | 0.74 | 28.38 | 29.12 | 60.00 | -30.88 | QP | Р |
| 12 | 13.7140 | 0.74 | 14.41 | 15.15 | 50.00 | -34.85 | AVG | Р |

Note: Level = Reading + Factor Margin = Level - Limit

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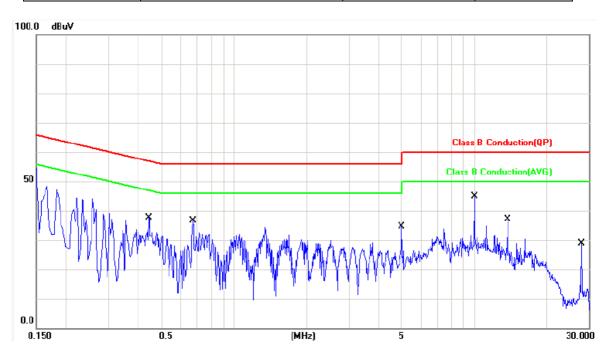
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| Power | : | AC 120V | Pol/Phase : | NEUTRAL |
|-------------|---|---------------|---------------|---------|
| Test Mode 1 | : | CH01 2405MHz | Temperature : | 21°C |
| Test Date | : | Jun. 18, 2013 | Humidity : | 55 % |



| No. | Frequency (MHz) | Factor (dBuV) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|--------------------|------------------|-------------------|-----------------|-----------------|----------------|----------|-----|
| 1 | 0.4420 | 0.13 | 32.01 | 32.14 | 57.02 | -24.88 | QP | Р |
| 2 | 0.4420 | 0.13 | 22.75 | 22.88 | 47.02 | -24.14 | AVG | Р |
| 3 | 0.6740 | 0.15 | 36.28 | 36.43 | 56.00 | -19.57 | QP | Р |
| 4 | 0.6740 | 0.15 | 33.20 | 33.35 | 46.00 | -12.65 | AVG | Р |
| 5 | 5.0020 | 0.39 | 28.22 | 28.61 | 60.00 | -31.39 | QP | Р |
| 6 | 5.0020 | 0.39 | 23.38 | 23.77 | 50.00 | -26.23 | AVG | Р |
| 7 | 10.0020 | 0.58 | 40.23 | 40.81 | 60.00 | -19.19 | QP | Р |
| 8 | 10.0020 | 0.58 | 28.36 | 28.94 | 50.00 | -21.06 | AVG | Р |
| 9 | 13.7540 | 0.74 | 22.72 | 23.46 | 60.00 | -36.54 | QP | Р |
| 10 | 13.7540 | 0.74 | 19.59 | 20.33 | 50.00 | -29.67 | AVG | Р |
| 11 | 27.9580 | 1.28 | 9.21 | 10.49 | 60.00 | -49.51 | QP | Р |
| 12 | 27.9580 | 1.28 | 4.01 | 5.29 | 50.00 | -44.71 | AVG | Р |

Note: Level = Reading + Factor Margin = Level - Limit

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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 C63.4-2009. 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:

| 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 | Distance | Radiated |
|-----------|----------|-------------|
| (MHz) | Meters | (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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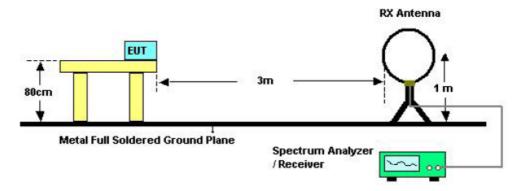
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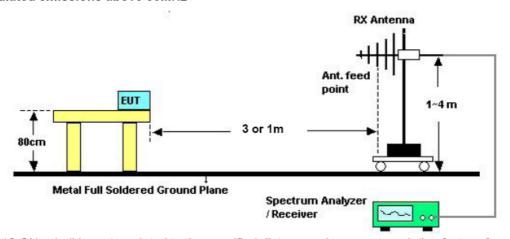


5.3 Typical Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

5.4 Measurement Equipment

| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|---------------------|------------|
| Amplifier | Agilent | 8447D | 2944A10531 | 2012/10/17 | 2013/10/16 |
| Bilog Antenna | Schaffner | CBL6112B | 2840 | 2013/03/27 | 2014/03/26 |
| EMI Receiver | R&S | ESCI | 101200 | 2012/07/31 | 2013/07/30 |
| SPECTRUM ANALYZER | R&S | FSP40 | 100219 | 2012/09/13 | 2013/09/12 |
| HORN ANTENNA | EMCO | 3115 | 31601 | 2012/09/13 | 2013/09/12 |
| PREAMPLIFIER | EMC | EMC012635 | 980029 | 2012/09/12 | 2013/09/11 |
| PREAMPLIFIER | AGILENT | 8449B | 3008A01954 | 2013/03/07 | 2014/03/06 |
| Loop Antenna | EMCO | 6507 | 40855 | N/A | N/A |

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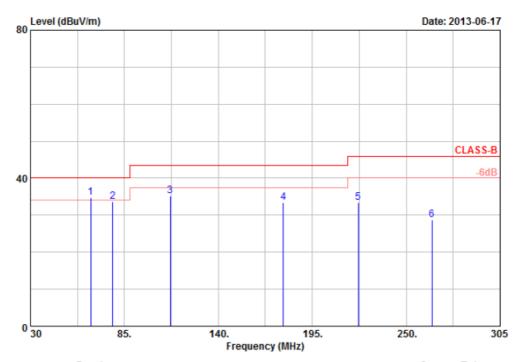


5.5 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

5.6 Test Result and Data (30MHz ~ 1GHz)

| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|-------------|---------------|----------|
| Test Mode 1 : | O-QPSK, CH1 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



| | | 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 | 65.20 | 46.62 | -11.84 | 34.78 | 40.00 | -5.22 | QP | 100 | 360 |
| 2 | 78.13 | 42.09 | -8.42 | 33.67 | 40.00 | -6.33 | QP | 100 | 360 |
| 3 | 111.95 | 42.13 | -7.02 | 35.11 | 43.50 | -8.39 | QP | 100 | 360 |
| 4 | 177.95 | 41.41 | -7.98 | 33.43 | 43.50 | -10.07 | Peak | 100 | 360 |
| 5 | 221.95 | 39.67 | -6.32 | 33.35 | 46.00 | -12.65 | Peak | 100 | 360 |
| 6 | 265.13 | 36.06 | -7.24 | 28.82 | 46.00 | -17.18 | Peak | 100 | 360 |
| | | | | | | | | | |

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.
- 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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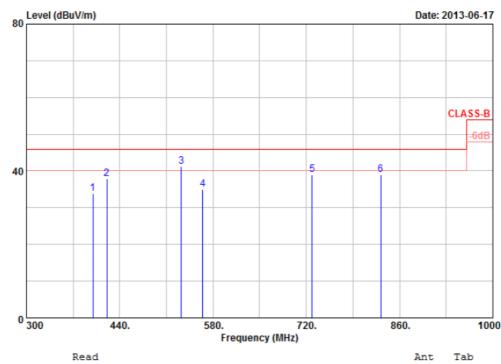
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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|---------------|-------------|---------------|----------|
| Test Mode 1 : | O-QPSK, CH1 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



| | | Kead | | | | | | Ant | ası | |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|--|
| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos | |
| | | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 399.40 | 39.49 | -5.59 | 33.90 | 46.00 | -12.10 | Peak | 100 | 0 | |
| 2 | 420.40 | 43.43 | -5.52 | 37.91 | 46.00 | -8.09 | Peak | 100 | 0 | |
| 3 | 532.40 | 38.91 | 2.23 | 41.14 | 46.00 | -4.86 | QP | 100 | 0 | |
| 4 | 564.60 | 28.33 | 6.59 | 34.92 | 46.00 | -11.08 | Peak | 100 | 0 | |
| 5 | 728.40 | 32.10 | 6.82 | 38.92 | 46.00 | -7.08 | QP | 100 | 0 | |
| 6 | 832.00 | 31.47 | 7.49 | 38.96 | 46.00 | -7.04 | QP | 100 | 0 | |
| | | | | | | | | | | |

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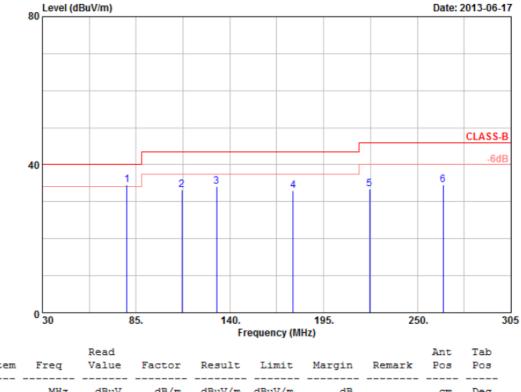
Tel:886-2-2655-8100 Fax:886-2-2655-8200

Issued date: Jun. 24, 2013

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| Power | : AC 120V | Pol/Phase | : | HORIZONTAL |
|-------------|---------------|-------------|---|------------|
| Test Mode 1 | : O-QPSK, CH1 | Temperature | : | 25 °C |
| Memo | : | Humidity | : | 57 % |



| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 79.50 | 53.29 | -18.85 | 34.44 | 40.00 | -5.56 | QP | 100 | 360 |
| 2 | 111.95 | 52.21 | -18.98 | 33.23 | 43.50 | -10.27 | Peak | 100 | 360 |
| 3 | 132.30 | 50.40 | -16.28 | 34.12 | 43.50 | -9.38 | Peak | 100 | 360 |
| 4 | 177.13 | 52.38 | -19.33 | 33.05 | 43.50 | -10.45 | Peak | 100 | 360 |
| 5 | 221.95 | 48.87 | -15.42 | 33.45 | 46.00 | -12.55 | Peak | 100 | 360 |
| 6 | 265.13 | 48.41 | -13.87 | 34.54 | 46.00 | -11.46 | Peak | 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.
- 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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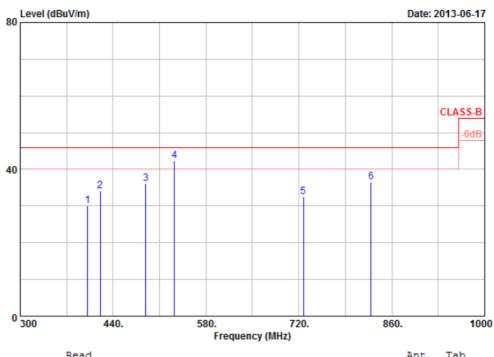
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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|---------------|-------------|---------------|------------|
| Test Mode 1 : | O-QPSK, CH1 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



| | | 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 | 401.50 | 39.10 | -9.02 | 30.08 | 46.00 | -15.92 | Peak | 100 | 0 | |
| 2 | 420.40 | 42.44 | -8.38 | 34.06 | 46.00 | -11.94 | Peak | 100 | 0 | |
| 3 | 489.00 | 38.02 | -2.01 | 36.01 | 46.00 | -9.99 | QP | 100 | 0 | |
| 4 | 532.40 | 40.25 | 2.00 | 42.25 | 46.00 | -3.75 | QP | 100 | 0 | |
| 5 | 727.00 | 28.83 | 3.77 | 32.60 | 46.00 | -13.40 | Peak | 100 | 0 | |
| 6 | 828.50 | 28.30 | 8.34 | 36.64 | 46.00 | -9.36 | QP | 100 | 0 | |

- 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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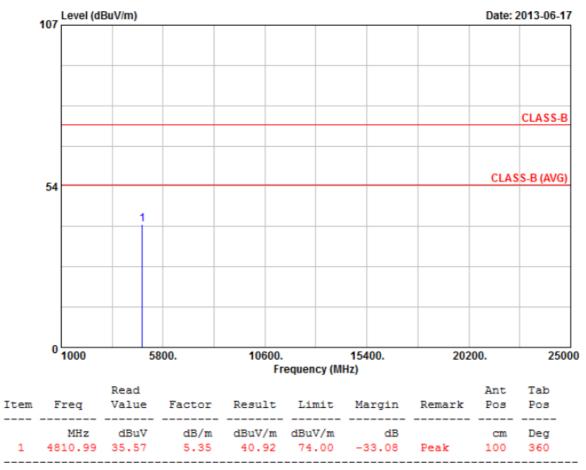
Issued date: Jun. 24, 2013

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5.7 Test Result and Data (1GHz ~ 25GHz)

| Power : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|--------------|---------------|----------|
| Test Mode : | O-QPSK, CH01 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



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.
- 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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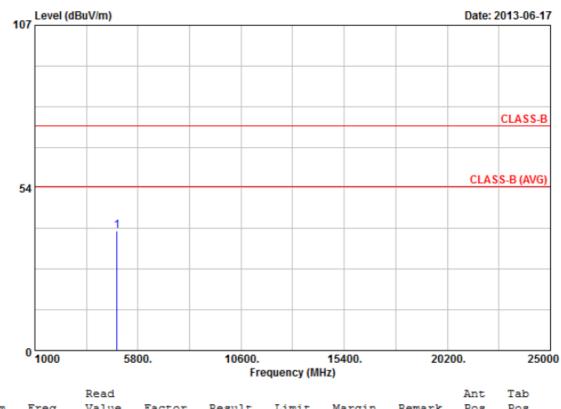
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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|--------------|---------------|------------|
| Test Mode : | O-QPSK, CH01 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



| | | 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 | 4809.53 | 35.58 | 3.72 | 39.30 | 74.00 | -34.70 | Peak | 100 | 0 | |

- 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.
- The data is worse case.

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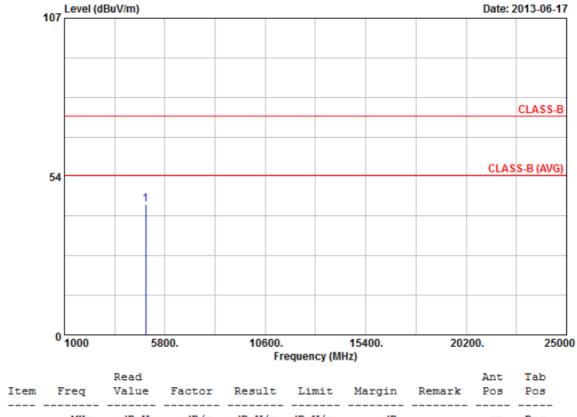
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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|--------------|---------------|----------|
| Test Mode : | O-QPSK, CH09 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



dB/m dBuV/m dBuV/m dB 6.89 44.10 74.00 -29.90 Peak MHzdBuV 360 1 4889.02 37.21 100

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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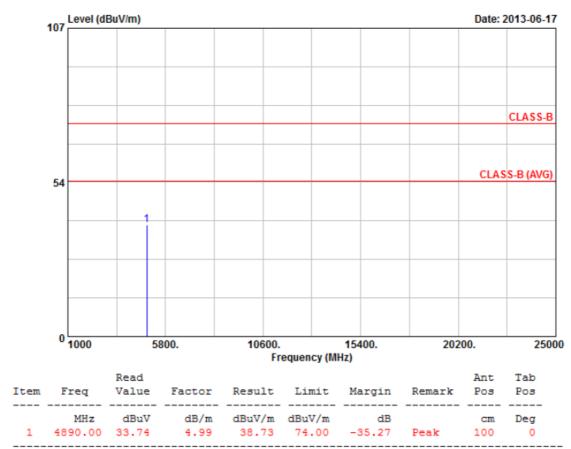
Issued date : Jun. 24, 2013

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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|--------------|---------------|------------|
| Test Mode : | O-QPSK, CH09 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



- 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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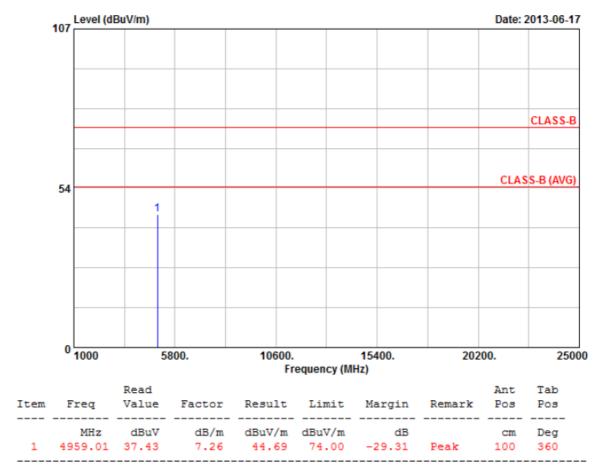
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| Power : | AC 120V | Pol/Phase : | VERTICAL |
|-------------|--------------|---------------|----------|
| Test Mode : | O-QPSK, CH16 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



- 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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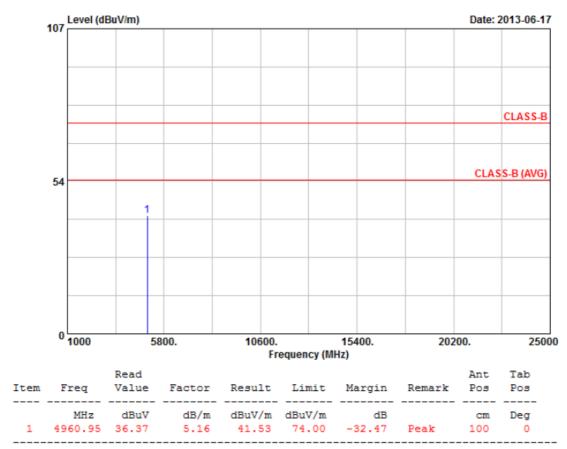
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| Power : | AC 120V | Pol/Phase : | HORIZONTAL |
|-------------|--------------|---------------|------------|
| Test Mode : | O-QPSK, CH16 | Temperature : | 25 °C |
| Memo : | | Humidity : | 57 % |



- 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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6. 6dB Bandwidth Measurement Data

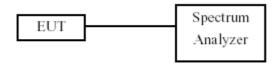
6.1 Test Limit

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 | 2012/09/13 | 2013/09/12 |

6.5 Test Result and Data

Test Date: May 30, 2013 Temperature: 24° C Atmospheric pressure: 1016 hPa Humidity: 46%

| Modulation Standard | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |
|---------------------|---------|--------------------|------------------------|
| | 01 | 2405 | 1.60 |
| O-QPSK | 06 | 2445 | 1.64 |
| | 16 | 2480 | 1.64 |

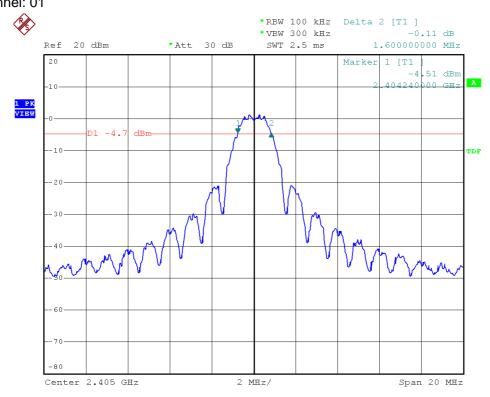
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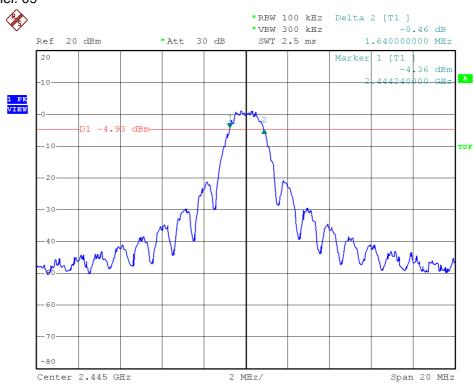
FCC ID : 2AAIVHVC-50X



Modulation Standard: O-QPSK Channel: 01



Modulation Standard: O-QPSK Channel: 09



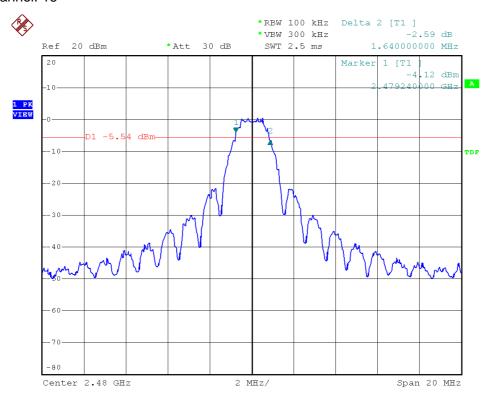
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Modulation Standard: O-QPSK Channel: 16



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7. Maximum Peak Output Power

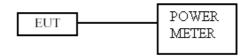
7.1 Test Limit

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 |
|-----------------------|--------------|-----------|------------|---------------------|------------|
| SERIES POWER METER | ANRITSU | ML2495A | 1224005 | 2013/03/21 | 2014/03/20 |
| POWER SENSOR | ANRITSU | MA2411B | 1207295 | 2013/03/21 | 2014/03/20 |

7.5 Test Result and Data

Test Date: May 30, 2013 Temperature: 24° C Atmospheric pressure: 1016 hPa Humidity: 46%

| Modulation Standard | Channel | Frequency (MHz) | Peak Power Output (dBm) | | Peak Power Output (mW) | |
|------------------------|---------|--------------------|-------------------------|---------|------------------------|---------|
| Otaridard | | (2) | Peak | Average | Peak | Average |
| O-QPSK | 01 | 2405 | 5.77 | 5.63 | 3.78 | 3.66 |
| | 09 | 2445 | 5.53 | 5.39 | 3.57 | 3.46 |
| | 16 | 2480 | 5.19 | 5.04 | 3.30 | 3.19 |

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FCC ID : 2AAIVHVC-50X

8. Power Spectral Density

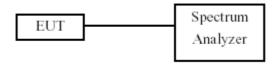
8.1 Test Limit

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.
- 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 | 2012/09/13 | 2013/09/12 |

8.5 Test Result and Data

Test Date: May 31, 2013 Temperature: 24℃ Atmospheric pressure: 1014 hPa Humidity: 47%

| Modulation Standard | Channel | Frequency (MHz) | Maximum Power Density of 3 kHz Bandwidth (dBm) |
|---------------------|---------|--------------------|------------------------------------------------|
| | 01 | 2405 | -10.26 |
| O-QPSK | 09 | 2445 | -11.00 |
| | 16 | 2480 | -11.89 |

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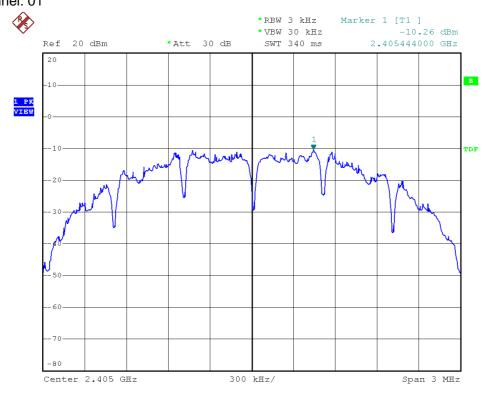
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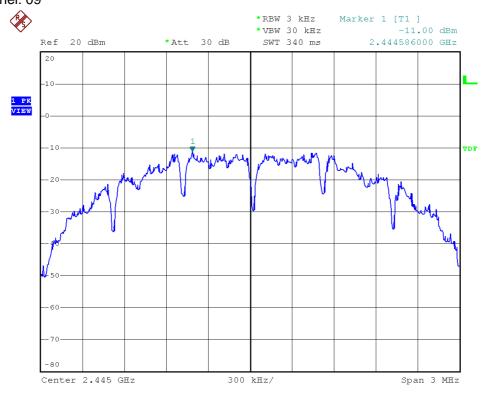
FCC ID : 2AAIVHVC-50X



Modulation Standard: O-QPSK Channel: 01



Modulation Standard: O-QPSK Channel: 09



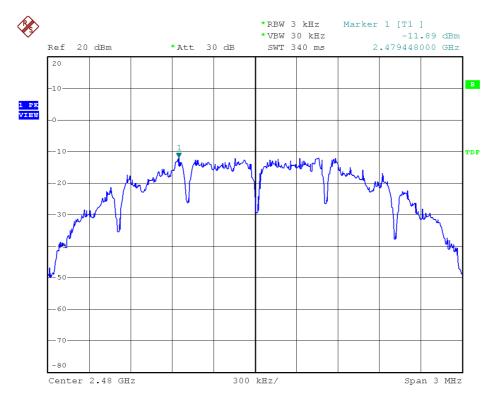
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Modulation Standard: O-QPSK

Channel: 16



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9. Band Edges Measurement

9.1 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 | 2012/09/13 | 2013/09/12 |

9.5 Test Result and Data

Test Date: May 31, 2013 Temperature: 24℃ Atmospheric pressure: 1014 hPa Humidity: 47%

| Modulation Standard | Channel | Frequency (MHz) | maximum value in frequency (MHz) | maximum value (dBm) |
|------------------------|---------|--------------------|----------------------------------|---------------------|
| O-QPSK | 01 | 2405 | 2400.00 | -38.77 |
| U-425K | 16 | 2480 | 2483.90 | -34.80 |

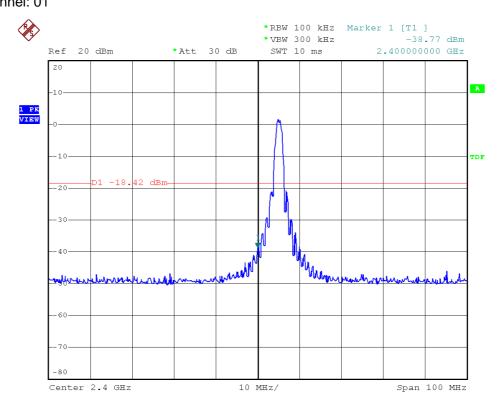
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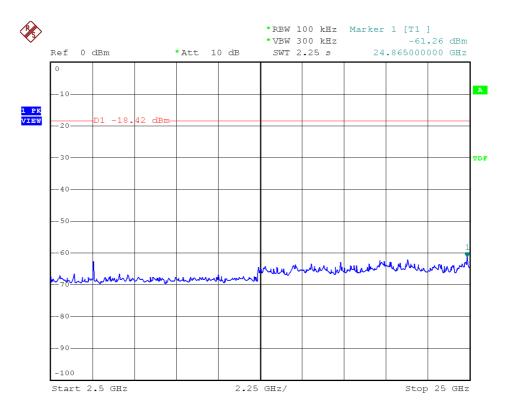
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Modulation Standard: O-QPSK Channel: 01





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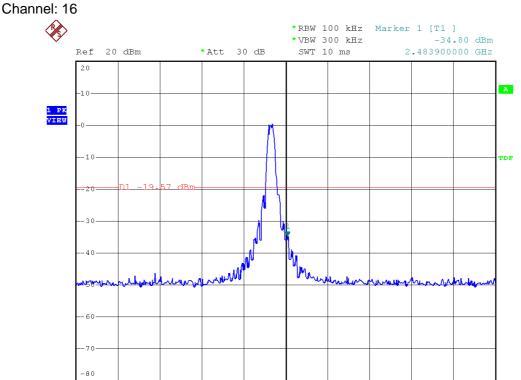
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FCC ID : 2AAIVHVC-50X

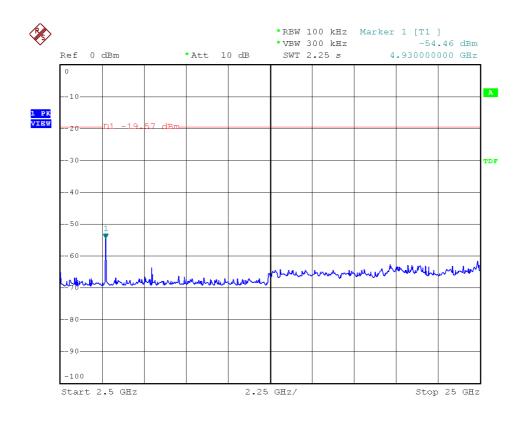
Center 2.4835 GHz



Modulation Standard: O-QPSK



10 MHz/



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Span 100 MHz

FCC ID : 2AAIVHVC-50X



10. Restrict Band Emission Measurement Data

Test Date: Jun. 17, 2013 Temperature: 25° C Atmospheric pressure: 1012 hPa Humidity: 57%

Modulation Standard: O-QPSK

| Channel 01 | Channel 01 Fundamental Frequency: 2405 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) |
| 2389.99 | Η | 36.85 | 1.62 | 38.47 | Peak | 74 | 54 | -35.53 | 209 | 1.00 |
| | Н | | | | Ave | 74 | 54 | | | |
| 2389.04 | V | 38.48 | 2.27 | 40.75 | Peak | 74 | 54 | -33.25 | 275 | 1.00 |
| | V | | | | Ave | 74 | 54 | | | |
| Channel 1 | Channel 16 Fundamental Frequency: 2480 MHz | | | | | | | | | |
| Frequency | Ant-Pol | Meter | Corrected | Result | | Limit (dBuV/m) Marg | | | Table | Ant High |
| (MHz) | H/V | Reading (dBuV) | Factor (dB) | (dBuV/m) | Remark | Peak | Ave | (dB) | Deg. | (m) |
| 2483.90 | Н | 51.94 | 0.29 | 52.23 | Peak | 74 | 54 | -21.77 | 203 | 1.00 |
| | Η | | | | Ave | 74 | 54 | | | |
| 2483.90 | V | 67.06 | -2.37 | 54.69 | Peak | 74 | 54 | -19.31 | 274 | 1.00 |
| 2483.85 | V | 48.95 | -2.37 | 46.58 | Ave | 74 | 54 | -7.42 | 274 | 1.00 |

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 (detector peak mode) for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3 MHz (detector sample mode) 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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