



Spectrum Research &
Testing Lab., Inc.
No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan

TEST REPORT

Reference No.: A07061302
Report No.: FCCA07061302
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Date: Jul. 05, 2007

Product Name: Voiis Stereo
Model Number: BV-003
Applicant: MOBILE ACTION TECHNOLOGY INC.
5F, No.205-3, Sec.3, Beishin Rd., Shindian City,
Taipei, Taiwan
Date of Receipt: Jun. 13, 2007
Finished date of Test: Jul. 05, 2007
Applicable Standards: 47 CFR Part 15, Subpart C
ANSI C63.4: 2003

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By: Jeff Yu, Date: Jul. 05/2007
(Jeff Yu)

Approved By: JCH, Date: Jul. 05, 2007
(Johnson Ho, Director)



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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 VAC/60 Hz, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.

| | | |
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2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

| | |
|---------------------------------|---|
| PRODUCT | Voiis Stereo |
| MODEL NO. | BV-003 |
| POWER SUPPLY | DC 5.0V, 150mA |
| FREQUENCY BAND | 2.402GHz~2.480GHz |
| CARRIER FREQUENCY | FHSS(Frequency Hopping Spread Spectrum) |
| NUMBER OF CHANNEL | 79 |
| CHANNEL SPACING | 1 MHz |
| RATED RF OUTPUT POWER | +1.9 dBm |
| MODE OF OPERATION | duplex |
| MODULATION TYPE | GFSK(1Mbps) |
| BIT RATE OF TRANSMISSION | Bluetooth V1.2(1Mbps) |
| ANTENNA TYPE | Mono Pole |
| ANTENNA GAIN | -8.34dBi |
| OPERATING TEMPERATURE | 0~45°C |
| CHANNEL BANDWIDTH | 1MHz |

NOTE :

For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF SUPPORT UNIT

The transmitter part of EUT was tested with a PC system and configured by the requirement of ANSI C63.4. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

| NO | DEVICE | BRAND | MODEL # | FCC ID/DOC | CABLE |
|----|--------------------|--------|----------|------------|-----------------------|
| 1 | I POCKET | APPLE | DS-M106 | N/A | 1.5m unshielded cable |
| 2 | HI-FI SPEAKER | JUSTER | JB-599 | N/A | 1.5m unshielded cable |
| 3 | Cellphone | Nokia | LPS-161A | N/A | N/A |
| 4 | Bluetooth earphone | Jabra | BT320S | | N/A |

NOTE : For the actual test configuration, please refer to the photos of testing.



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2.3 DESCRIPTION OF TEST MODE

79 channels are provided by EUT. The 3 channels of lower, medium and higher were chosen for test.

| Channel | Frequency(MHz) |
|---------|----------------|
| 0 | 2402 |
| 39 | 2441 |
| 78 | 2480 |

| EUT Configure Mode | Description |
|--------------------|-------------|
| Mode1 | TX |
| Mode2 | Standby |
| Mode3 | RX |

NOTE :

1. Below 1 GHz, the channel 0, 39 and 78 were pre-tested in chamber. The channel 78, worst case one, was chosen for conducted and radiated emission test.
2. Above 1 GHz, the channel 0, 39 and 78 were tested individually.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of wireless product and to be connected with a PC system for normal use. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C

ANSI C63.4: 2003

All tests have been performed and recorded as the above standards.

| | | |
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4. TECHNICAL CHARACTERISTICS TEST

4.1 CONDUCTED EMISSION

4.1.1 LIMIT

| FREQUENCY (MHz) | Class A (dB μ V) | | Class B (dB μ V) | |
|-----------------|----------------------|---------|----------------------|---------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 79 | 66 | 66 - 56 | 56 - 46 |
| 0.5 - 5.0 | 73 | 60 | 56 | 46 |
| 5.0 - 30.0 | 73 | 60 | 60 | 50 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST EQUIPMENT

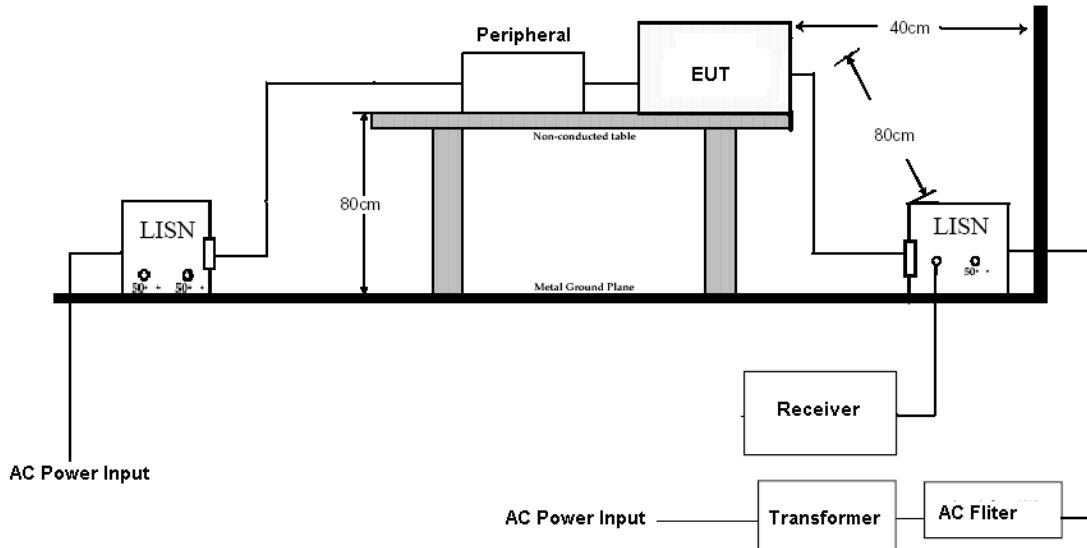
The following test equipment was used for the test:

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|--------------------------|------------------------|--------------------|----------------------------|-----------------------------------|
| EMI TEST RECEIVER | 9 KHZ TO 30 MHZ | ROHDE & SCHWARZ | ESHS30/ 826003/008 | OCT. 2007 ETC |
| LISN (for EUT) | 50 μ H, 50 ohm | FCC | FCC-LISN-50-25-2/ 01017 | OCT. 2007 ETC |
| LISN (for Peripheral) | 50 μ H, 50 ohm | FCC | FCC-LISN-50-25-2/ 01018 | NOV. 2007 ETC |
| 50 ohm TERMINATOR | 50 ohm | HP | 11593A/ 2 | OCT. 2007 ETC |
| COAXIAL CABLE | 5m | SUNCITY | CABLE 05/ #5-5M | NOV. 2007 SRT |
| ISOLATION TRANSFORMER | N/A | APC | AFC-11015/ F102040016 | N/A |
| FILTER | 2 LINE, 30A | FIL.COIL | FC-943/ 771 | N/A |
| GROUND PLANE | 2.3M (H) x 2.4M (W) | SRT | N/A | N/A |
| GROUND PLANE | 2.4M (H) x 2.4M (W) | SRT | N/A | N/A |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



4.1.3 TEST SETUP



NOTE:

1. The EUT was put on a wooden table with 0.8m height above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.
3. The serial no. of the LISN connected to EUT is 951318.
4. The serial no. of the LISN connected to support units is 924839.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4: 2003 and CISPR22:2006. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50 μ H as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

4.1.5 EUT OPERATING CONDITION

Set the EUT under transmission condition continuously at a specific channel frequency.

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4.1.6 TEST RESULT

| | | | |
|--------------------|---------------|--------------|---------------|
| Temperature: | 28°C | Humidity: | 64%RH |
| Frequency Range: | 0.15 – 30 MHz | Tested Mode: | TX |
| Receiver Detector: | Q.P. and AV. | Tested By: | Jeff Yu |
| | | Tested Date: | Jun. 29, 2007 |

Power Line Measured : Line

| Freq. (MHz) | Correct. Factor (dB) | Reading Value (dB μ V) | | Emission Level (dB μ V) | | Limit (dB μ V) | | Margin (dB) | |
|----------------|----------------------------|-------------------------------|-------|--------------------------------|-------|-----------------------|-------|----------------|--------|
| | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.378 | 0.27 | 40.34 | 34.15 | 40.61 | 34.42 | 59.49 | 49.49 | -19.15 | -15.34 |
| 0.393 | 0.27 | 41.06 | 34.12 | 41.33 | 34.39 | 59.06 | 49.06 | -18.00 | -14.94 |
| 0.548 | 0.24 | 32.90 | 23.62 | 33.14 | 23.86 | 56.00 | 46.00 | -23.10 | -22.38 |
| 1.942 | 0.16 | 29.56 | 19.83 | 29.72 | 19.99 | 56.00 | 46.00 | -26.44 | -26.17 |
| 5.03 | 0.22 | 22.66 | 14.52 | 22.88 | 14.74 | 60.00 | 50.00 | -37.34 | -35.48 |
| 29.996 | 0.50 | 47.84 | 35.20 | 48.34 | 35.70 | 60.00 | 50.00 | -12.16 | -14.80 |

Power Line Measured : Neutral

| Freq. (MHz) | Correct. Factor (dB) | Reading Value (dB μ V) | | Emission Level (dB μ V) | | Limit (dB μ V) | | Margin (dB) | |
|----------------|----------------------------|-------------------------------|-------|--------------------------------|-------|-----------------------|-------|----------------|--------|
| | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.378 | 0.27 | 44.88 | 35.93 | 45.15 | 36.20 | 59.49 | 49.49 | -14.61 | -13.55 |
| 0.393 | 0.27 | 45.68 | 35.82 | 45.95 | 36.09 | 59.06 | 49.06 | -13.38 | -13.23 |
| 1.028 | 0.14 | 36.84 | 26.39 | 36.98 | 26.53 | 56.00 | 46.00 | -19.16 | -19.61 |
| 1.517 | 0.15 | 34.14 | 22.07 | 34.29 | 22.22 | 56.00 | 46.00 | -21.86 | -23.93 |
| 5.477 | 0.22 | 23.20 | 13.30 | 23.42 | 13.52 | 60.00 | 50.00 | -36.80 | -36.70 |
| 30.000 | 0.30 | 49.60 | 39.61 | 49.90 | 39.91 | 60.00 | 50.00 | -10.40 | -10.39 |

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

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| | | | |
|--------------------|---------------|--------------|---------------|
| Temperature: | 25°C | Humidity: | 63%RH |
| Frequency Range: | 0.15 – 30 MHz | Tested Mode: | RX |
| Receiver Detector: | Q.P. and AV. | Tested By: | Jeff Yu |
| | | Tested Date: | Jun. 21, 2007 |

Power Line Measured : Line

| Freq. (MHz) | Correct. Factor (dB) | Reading Value (dB μ V) | | Emission Level (dB μ V) | | Limit (dB μ V) | | Margin (dB) | |
|----------------|----------------------------|-------------------------------|-------|--------------------------------|-------|-----------------------|-------|----------------|--------|
| | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.42 | 0.25 | 41.44 | 31.19 | 41.69 | 31.44 | 58.29 | 48.29 | -16.85 | -17.09 |
| 0.423 | 0.25 | 42.68 | 32.14 | 42.93 | 32.39 | 58.20 | 48.20 | -15.52 | -16.06 |
| 0.788 | 0.20 | 35.44 | 28.35 | 35.64 | 28.55 | 56.00 | 46.00 | -20.56 | -17.65 |
| 1.329 | 0.15 | 34.38 | 25.42 | 34.53 | 25.57 | 56.00 | 46.00 | -21.62 | -20.58 |
| 6.594 | 0.22 | 18.14 | 11.10 | 18.36 | 11.32 | 60.00 | 50.00 | -41.56 | -38.90 |
| 17.86 | 0.33 | 33.74 | 25.58 | 34.07 | 25.91 | 60.00 | 50.00 | -26.26 | -24.42 |

Power Line Measured : Neutral

| Freq. (MHz) | Correct. Factor (dB) | Reading Value (dB μ V) | | Emission Level (dB μ V) | | Limit (dB μ V) | | Margin (dB) | |
|----------------|----------------------------|-------------------------------|-------|--------------------------------|-------|-----------------------|-------|----------------|--------|
| | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 0.423 | 0.25 | 49.96 | 34.77 | 50.21 | 35.02 | 58.20 | 48.20 | -8.24 | -13.43 |
| 0.426 | 0.25 | 49.32 | 33.97 | 49.57 | 34.22 | 58.11 | 48.11 | -8.79 | -14.14 |
| 0.788 | 0.20 | 42.12 | 30.36 | 42.32 | 30.56 | 56.00 | 46.00 | -13.88 | -15.64 |
| 1.754 | 0.15 | 39.92 | 29.72 | 40.07 | 29.87 | 56.00 | 46.00 | -16.08 | -16.28 |
| 11.577 | 0.24 | 42.90 | 30.59 | 43.14 | 30.83 | 60.00 | 50.00 | -17.10 | -19.41 |
| 17.860 | 0.29 | 41.98 | 32.63 | 42.27 | 32.92 | 60.00 | 50.00 | -18.02 | -17.37 |

NOTE :

1. Measurement uncertainty is +/-2dB
2. Emission level = Reading value + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

| | | |
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4.2 RADIATED EMISSION TEST

4.2.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission measurement for frequency below 1000 MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| FREQUENCY (MHz) | DISTANCE(m) | FIELD STRENGTH (dB μ V/m) |
|-----------------|-------------|-------------------------------|
| 30 – 88 | 3 | 40.0 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46.0 |
| ABOVE 960 | 3 | 54.0 |

NOTE:

1. In the emission tables above, the tighter limit applies at the band edges.
2. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.

FCC Part 15, Subpart 15.35(b) limit of radiated emission for frequency above 1000MHz

| FREQUENCY (MHz) | Class A (dB μ V/m) (at 3m) | | Class B (dB μ V/m) (at 3m) | |
|-----------------|--------------------------------|------|--------------------------------|------|
| | PK. | AV. | PK. | AV. |
| Above 1000 | 80.0 | 60.0 | 74.0 | 54.0 |

FCC Part 15, Subpart C Section 15.249. The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| FUNDAMENTAL FREQUENCY (MHz) | FILED STRENGTH OF FUNDAMENTAL (dB μ V/m) (at 3m) | | FIELD STRENGTH OF HARMONICS (dB μ V/m) (at 3m) | |
|-----------------------------|--|-----|--|------|
| | PK. | AV. | PK. | AV. |
| 902-928 | 114 | 94 | 74.0 | 54.0 |
| 2400-2483.5 | 114 | 94 | 74.0 | 54.0 |
| 5725-5875 | 114 | 94 | 74.0 | 54.0 |
| 24000-24250 | 128 | 108 | 88 | 68 |

| | | |
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4.2.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test:

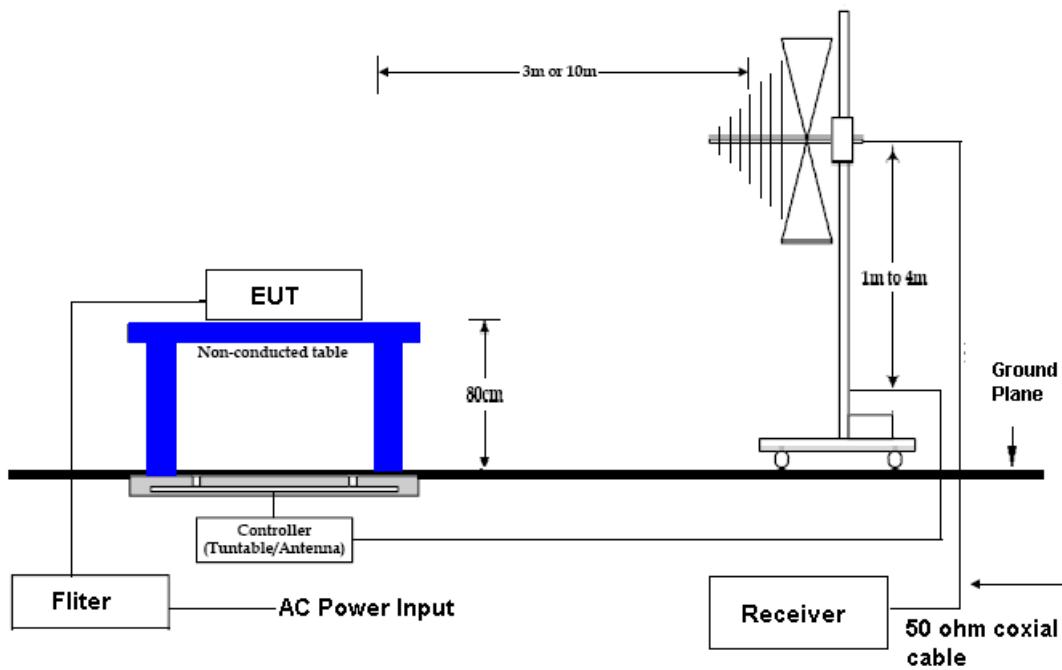
| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|--------------------------|-------------------------|--------------------|---------------------------|-----------------------------------|
| EMI TEST RECEIVER | 9kHz TO 2.75 GHz | ROHDE & SCHWARZ | ESCS30/ 830245/012 | OCT. 2007 ETC |
| BI-LOG ANTENNA | 25 MHz TO 2 GHz | EMCO | 3143/ 9509-1152 | JUN. 2008 SRT |
| PRE-AMPLIFIER | 1 GHz TO 26.5 GHz | HP | 8449B/ 3008A01019 | AUG. 2007 ETC |
| HORN ANTENNA | 1 GHz TO 18 GHz | EMCO | 3115/ 9602-4681 | DEC. 2007 ETC |
| OATS | 3 – 10 M MEASUREMENT | SRT | SRT-1 | DEC. 2007 SRT |
| COAXIAL CABLE | 25M | SUNCITY | J400-25M-2NP/ #153-25M | JUN. 2008 SRT |
| FILTER | 2 LINE, 30A | FIL.COIL | FC-943/ 869 | N/A |
| FREQUENCY CONVERTER | N/A | APC | AFC-2KBB/ F100030031 | AUG. 2007 SRT |

NOTE:

1. The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.
2. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
3. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.



4.2.3 TEST SET-UP



NOTE :

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.



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4.2.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR 22:2006. The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak or average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, Find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.2.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

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4.2.6 RADIATED EMISSION TEST RESULT

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH0-TX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 153.1590 | 2.17 | 9.21 | 21.3 | 32.7 | 43.5 | -10.8 |
| 220.7200 | 2.62 | 10.40 | 16.2 | 29.2 | 46.0 | -16.8 |
| 335.9850 | 3.20 | 14.47 | 16.3 | 34.0 | 46.0 | -12.0 |
| 493.0150 | 4.09 | 16.09 | 12.1 | 32.3 | 46.0 | -13.7 |
| 520.6050 | 4.22 | 16.36 | 9.6 | 30.2 | 46.0 | -15.8 |
| 641.9700 | 4.73 | 18.88 | 9.6 | 33.2 | 46.0 | -12.8 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 153.1590 | 2.17 | 9.21 | 22.7 | 34.1 | 43.5 | -9.4 |
| 220.7200 | 2.62 | 10.40 | 8.9 | 21.9 | 46.0 | -24.1 |
| 335.9850 | 3.20 | 14.47 | 10.6 | 28.3 | 46.0 | -17.7 |
| 493.0150 | 4.09 | 16.09 | 7.6 | 27.8 | 46.0 | -18.2 |
| 520.6050 | 4.22 | 16.36 | 8.2 | 28.8 | 46.0 | -17.2 |
| 641.9700 | 4.73 | 18.88 | 8.4 | 32.0 | 46.0 | -14.0 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 16 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH0-Standby |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 156.2485 | 2.20 | 10.02 | 20.3 | 32.5 | 43.5 | -11.0 |
| 226.4940 | 2.64 | 10.74 | 15.1 | 28.5 | 46.0 | -17.5 |
| 334.8630 | 3.19 | 14.78 | 15.5 | 33.5 | 46.0 | -12.5 |
| 491.7130 | 4.08 | 18.00 | 11.3 | 33.4 | 46.0 | -12.6 |
| 523.9250 | 4.24 | 18.69 | 9.2 | 32.1 | 46.0 | -13.9 |
| 639.8480 | 4.72 | 19.88 | 8.9 | 33.5 | 46.0 | -12.5 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 156.2485 | 2.20 | 10.02 | 20.8 | 33.0 | 43.5 | -10.5 |
| 226.4940 | 2.64 | 10.74 | 12.2 | 25.6 | 46.0 | -20.4 |
| 334.8630 | 3.19 | 14.78 | 10.3 | 28.3 | 46.0 | -17.7 |
| 491.7130 | 4.08 | 18.00 | 9.1 | 31.2 | 46.0 | -14.8 |
| 523.9250 | 4.24 | 18.69 | 8.4 | 31.3 | 46.0 | -14.7 |
| 639.8480 | 4.72 | 19.88 | 8.1 | 32.7 | 46.0 | -13.3 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 17 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH0-RX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 156.2485 | 2.20 | 10.02 | 20.6 | 32.8 | 43.5 | -10.7 | 80 | 1.1 |
| 226.4940 | 2.64 | 10.74 | 15.3 | 28.7 | 46.0 | -17.3 | 120 | 1.3 |
| 334.8630 | 3.19 | 14.78 | 14.7 | 32.7 | 46.0 | -13.3 | 160 | 1.3 |
| 491.7130 | 4.08 | 18.00 | 12.3 | 34.4 | 46.0 | -11.6 | 190 | 1.4 |
| 523.9250 | 4.24 | 18.69 | 9.8 | 32.7 | 46.0 | -13.3 | 250 | 1.4 |
| 639.8480 | 4.72 | 19.88 | 9.0 | 33.6 | 46.0 | -12.4 | 230 | 1.3 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 156.2485 | 2.20 | 10.02 | 21.2 | 33.4 | 43.5 | -10.1 | 290 | 1.5 |
| 226.4940 | 2.64 | 10.74 | 11.4 | 24.8 | 46.0 | -21.2 | 310 | 1.3 |
| 334.8630 | 3.19 | 14.78 | 10.2 | 28.2 | 46.0 | -17.8 | 330 | 1.3 |
| 491.7130 | 4.08 | 18.00 | 9.7 | 31.8 | 46.0 | -14.2 | 280 | 1.1 |
| 523.9250 | 4.24 | 18.69 | 9.2 | 32.1 | 46.0 | -13.9 | 200 | 1.1 |
| 639.8480 | 4.72 | 19.88 | 8.5 | 33.1 | 46.0 | -12.9 | 180 | 1.2 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 18 of 68 Date: Jul. 05, 2007 |
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| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH39-TX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 151.4860 | 2.16 | 10.42 | 20.7 | 33.3 | 43.5 | -10.2 |
| 225.1650 | 2.64 | 10.70 | 15.4 | 28.7 | 46.0 | -17.3 |
| 330.1215 | 3.17 | 14.70 | 14.2 | 32.1 | 46.0 | -13.9 |
| 491.2640 | 4.08 | 18.00 | 11.8 | 33.9 | 46.0 | -12.1 |
| 523.5190 | 4.24 | 18.69 | 8.2 | 31.1 | 46.0 | -14.9 |
| 642.2860 | 4.73 | 19.92 | 7.5 | 32.2 | 46.0 | -13.8 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 151.4860 | 2.16 | 10.42 | 21.5 | 34.1 | 43.5 | -9.4 |
| 225.1650 | 2.64 | 10.70 | 12.4 | 25.7 | 46.0 | -20.3 |
| 330.1215 | 3.17 | 14.70 | 11.7 | 29.6 | 46.0 | -16.4 |
| 491.2640 | 4.08 | 18.00 | 9.8 | 31.9 | 46.0 | -14.1 |
| 523.5190 | 4.24 | 18.69 | 8.4 | 31.3 | 46.0 | -14.7 |
| 642.2860 | 4.73 | 19.92 | 7.2 | 31.9 | 46.0 | -14.1 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|--------------------|---|
|  Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan | TEST REPORT | Reference No.: A07061302 Report No.: FCCA07061302 Page: 19 of 68 Date: Jul. 05, 2007 |
|---|--------------------|---|

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH39-Standby |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 151.9850 | 2.16 | 10.42 | 21.1 | 33.7 | 43.5 | -9.8 |
| 223.7235 | 2.63 | 10.62 | 16.1 | 29.4 | 46.0 | -16.6 |
| 332.6430 | 3.18 | 14.74 | 15.8 | 33.7 | 46.0 | -12.3 |
| 495.1375 | 4.10 | 18.00 | 12.5 | 34.6 | 46.0 | -11.4 |
| 518.3655 | 4.21 | 18.54 | 9.6 | 32.4 | 46.0 | -13.7 |
| 642.8960 | 4.73 | 19.92 | 9.2 | 33.9 | 46.0 | -12.1 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 151.9850 | 2.16 | 10.42 | 22.3 | 34.9 | 43.5 | -8.6 |
| 223.7235 | 2.63 | 10.62 | 9.8 | 23.1 | 46.0 | -22.9 |
| 332.6430 | 3.18 | 14.74 | 10.5 | 28.4 | 46.0 | -17.6 |
| 495.1375 | 4.10 | 18.00 | 9.3 | 31.4 | 46.0 | -14.6 |
| 518.3655 | 4.21 | 18.54 | 9.0 | 31.8 | 46.0 | -14.3 |
| 642.8960 | 4.73 | 19.92 | 8.7 | 33.4 | 46.0 | -12.6 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 20 of 68 Date: Jul. 05, 2007 |
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| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH39-RX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 151.9850 | 2.16 | 10.42 | 21.6 | 34.2 | 43.5 | -9.3 | 230 | 1.1 |
| 223.7235 | 2.63 | 10.62 | 15.4 | 28.7 | 46.0 | -17.3 | 170 | 1.1 |
| 332.6430 | 3.18 | 14.74 | 14.8 | 32.7 | 46.0 | -13.3 | 140 | 1.1 |
| 495.1375 | 4.10 | 18.00 | 12.3 | 34.4 | 46.0 | -11.6 | 100 | 1.2 |
| 518.3655 | 4.21 | 18.54 | 8.6 | 31.4 | 46.0 | -14.7 | 80 | 1.4 |
| 642.8960 | 4.73 | 19.92 | 8.3 | 33.0 | 46.0 | -13.0 | 130 | 1.4 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 151.9850 | 2.16 | 10.42 | 22.4 | 35.0 | 43.5 | -8.5 | 200 | 1.3 |
| 223.7235 | 2.63 | 10.62 | 11.4 | 24.7 | 46.0 | -21.3 | 250 | 1.3 |
| 332.6430 | 3.18 | 14.74 | 10.7 | 28.6 | 46.0 | -17.4 | 280 | 1.2 |
| 495.1375 | 4.10 | 18.00 | 10.0 | 32.1 | 46.0 | -13.9 | 330 | 1.2 |
| 518.3655 | 4.21 | 18.54 | 8.1 | 30.9 | 46.0 | -15.2 | 10 | 1.1 |
| 642.8960 | 4.73 | 19.92 | 7.5 | 32.2 | 46.0 | -13.8 | 50 | 1.3 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
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|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 21 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH78-TX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 154.2765 | 2.18 | 10.18 | 21.5 | 33.9 | 43.5 | -9.6 |
| 218.6370 | 2.61 | 10.38 | 15.8 | 28.8 | 46.0 | -17.2 |
| 337.1825 | 3.21 | 14.84 | 15.3 | 33.3 | 46.0 | -12.7 |
| 496.8530 | 4.10 | 18.00 | 12.7 | 34.8 | 46.0 | -11.2 |
| 524.1560 | 4.24 | 18.72 | 9.2 | 32.2 | 46.0 | -13.8 |
| 647.7460 | 4.75 | 19.97 | 8.7 | 33.4 | 46.0 | -12.6 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 154.2765 | 2.18 | 10.18 | 22.3 | 34.7 | 43.5 | -8.8 |
| 218.6370 | 2.61 | 10.38 | 11.9 | 24.9 | 46.0 | -21.1 |
| 337.1825 | 3.21 | 14.84 | 10.2 | 28.2 | 46.0 | -17.8 |
| 496.8530 | 4.10 | 18.00 | 9.6 | 31.7 | 46.0 | -14.3 |
| 524.1560 | 4.24 | 18.72 | 8.6 | 31.6 | 46.0 | -14.4 |
| 647.7460 | 4.75 | 19.97 | 7.7 | 32.4 | 46.0 | -13.6 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 22 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH78-Standby |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 155.2790 | 2.19 | 10.10 | 21.8 | 34.1 | 43.5 | -9.4 |
| 220.1830 | 2.62 | 10.50 | 15.7 | 28.8 | 46.0 | -17.2 |
| 338.4980 | 3.21 | 14.86 | 15.0 | 33.1 | 46.0 | -12.9 |
| 496.1295 | 4.10 | 18.00 | 11.6 | 33.7 | 46.0 | -12.3 |
| 520.8750 | 4.22 | 18.60 | 9.2 | 32.0 | 46.0 | -14.0 |
| 643.5870 | 4.74 | 19.93 | 8.4 | 33.1 | 46.0 | -12.9 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|
| 155.2790 | 2.19 | 10.10 | 22.1 | 34.4 | 43.5 | -9.1 |
| 220.1830 | 2.62 | 10.50 | 9.7 | 22.8 | 46.0 | -23.2 |
| 338.4980 | 3.21 | 14.86 | 10.4 | 28.5 | 46.0 | -17.5 |
| 496.1295 | 4.10 | 18.00 | 9.5 | 31.6 | 46.0 | -14.4 |
| 520.8750 | 4.22 | 18.60 | 8.5 | 31.3 | 46.0 | -14.7 |
| 643.5870 | 4.74 | 19.93 | 8.3 | 33.0 | 46.0 | -13.0 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 23 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH78-RX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 25, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 155.2790 | 2.19 | 10.10 | 21.6 | 33.9 | 43.5 | -9.6 | 30 | 1.2 |
| 220.1830 | 2.62 | 10.50 | 16.2 | 29.3 | 46.0 | -16.7 | 80 | 1.2 |
| 338.4980 | 3.21 | 14.86 | 15.8 | 33.9 | 46.0 | -12.1 | 130 | 1.3 |
| 496.1295 | 4.10 | 18.00 | 12.4 | 34.5 | 46.0 | -11.5 | 170 | 1.5 |
| 520.8750 | 4.22 | 18.60 | 9.2 | 32.0 | 46.0 | -14.0 | 100 | 1.4 |
| 643.5870 | 4.74 | 19.93 | 8.7 | 33.4 | 46.0 | -12.6 | 60 | 1.4 |

Antenna Polarization: Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Reading Data (dB μ V) | Emission Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|----------------------|-------------|-------|-------|
| 155.2790 | 2.19 | 10.10 | 22.3 | 34.6 | 43.5 | -8.9 | 10 | 1.1 |
| 220.1830 | 2.62 | 10.50 | 12.5 | 25.6 | 46.0 | -20.4 | 340 | 1.1 |
| 338.4980 | 3.21 | 14.86 | 11.4 | 29.5 | 46.0 | -16.5 | 300 | 1.3 |
| 496.1295 | 4.10 | 18.00 | 10.7 | 32.8 | 46.0 | -13.2 | 280 | 1.2 |
| 520.8750 | 4.22 | 18.60 | 8.4 | 31.2 | 46.0 | -14.8 | 260 | 1.3 |
| 643.5870 | 4.74 | 19.93 | 7.4 | 32.1 | 46.0 | -13.9 | 200 | 1.3 |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 24 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|--------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1 – 12.5 GHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH0-TX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2402 | -32.16 | 28.54 | 85.2 | 61.8 | 81.6 | 58.2 | N/A | N/A | N/A | N/A |
| 2232.16 | -32.51 | 27.66 | 35.6 | * | 30.7 | * | 74.0 | 54.0 | -43.3 | * |
| 2434.13 | -32.21 | 28.07 | 31.4 | * | 27.3 | * | 74.0 | 54.0 | -46.7 | * |
| 2823.55 | -31.73 | 30.01 | 30.3 | * | 28.6 | * | 74.0 | 54.0 | -45.4 | * |
| 4865.46 | -30.30 | 33.69 | 31.7 | * | 35.1 | * | 74.0 | 54.0 | -38.9 | * |
| 7254.66 | -29.03 | 36.30 | 33.4 | * | 40.7 | * | 74.0 | 54.0 | -33.3 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|----|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2402 | -32.16 | 28.00 | 86.5 | 65 | 82.3 | 60.8 | N/A | N/A | N/A | N/A |
| 2232.16 | -32.51 | 27.66 | 36.2 | * | 31.3 | * | 74.0 | 54.0 | -42.7 | * |
| 2434.13 | -32.21 | 28.07 | 36.1 | * | 32.0 | * | 74.0 | 54.0 | -42.0 | * |
| 2823.55 | -31.73 | 30.01 | 36.6 | * | 34.9 | * | 74.0 | 54.0 | -39.1 | * |
| 4865.46 | -30.30 | 33.69 | 32.2 | * | 35.6 | * | 74.0 | 54.0 | -38.4 | * |
| 7254.66 | -29.03 | 36.30 | 44.8 | * | 52.1 | * | 74.0 | 54.0 | -21.9 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 25 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1-12.5GHz | Measured Distance: | 3m |
| Receiver Detector: | PK. or AV. | Tested Mode: | CH0-Standby |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2402 | -32.16 | 28.54 | 80.2 | 59.8 | 76.6 | 56.2 | N/A | N/A | N/A | N/A |
| 2260.451 | -32.50 | 27.72 | 29.6 | * | 24.8 | * | 74.0 | 54.0 | -49.2 | * |
| 2486.656 | -32.18 | 28.17 | 26.8 | * | 22.8 | * | 74.0 | 54.0 | -51.2 | * |
| 2876.271 | -31.68 | 30.31 | 32.5 | * | 31.1 | * | 74.0 | 54.0 | -42.9 | * |
| 4808.29 | -30.46 | 33.65 | 26.7 | * | 29.9 | * | 74.0 | 54.0 | -44.1 | * |
| 7293.36 | -29.08 | 36.33 | 32.8 | * | 40.1 | * | 74.0 | 54.0 | -33.9 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2402 | -32.16 | 28.00 | 82.5 | 63.4 | 78.3 | 59.2 | N/A | N/A | N/A | N/A |
| 2260.451 | -32.50 | 27.72 | 32.5 | * | 27.7 | * | 74.0 | 54.0 | -46.3 | * |
| 2486.656 | -32.18 | 28.17 | 30.8 | * | 26.8 | * | 74.0 | 54.0 | -47.2 | * |
| 2876.271 | -31.68 | 30.31 | 35.6 | * | 34.2 | * | 74.0 | 54.0 | -39.8 | * |
| 4808.29 | -30.46 | 33.65 | 29.9 | * | 33.1 | * | 74.0 | 54.0 | -40.9 | * |
| 7293.36 | -29.08 | 36.33 | 39.3 | * | 46.6 | * | 74.0 | 54.0 | -27.4 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 26 of 68 Date: Jul. 05, 2007 |
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| | | | |
|--------------------|------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1-12.5GHz | Measured Distance: | 3m |
| Receiver Detector: | PK. or AV. | Tested Mode: | CH0-RX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2402 | -32.16 | 28.54 | 82.9 | 61.2 | 79.3 | 57.6 | N/A | N/A | N/A | N/A |
| 2260.451 | -32.50 | 27.72 | 24.3 | * | 19.5 | * | 74.0 | 54.0 | -54.5 | * |
| 2486.656 | -32.18 | 28.17 | 23.8 | * | 19.8 | * | 74.0 | 54.0 | -54.2 | * |
| 2876.271 | -31.68 | 30.31 | 26.5 | * | 25.1 | * | 74.0 | 54.0 | -48.9 | * |
| 4808.29 | -30.46 | 33.65 | 23.2 | * | 26.4 | * | 74.0 | 54.0 | -47.6 | * |
| 7293.36 | -29.08 | 36.33 | 24.2 | * | 31.5 | * | 74.0 | 54.0 | -42.5 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2402 | -32.16 | 28.00 | 84.7 | 63.5 | 80.5 | 59.3 | N/A | N/A | N/A | N/A |
| 2260.451 | -32.50 | 27.72 | 28.7 | * | 23.9 | * | 74.0 | 54.0 | -50.1 | * |
| 2486.656 | -32.18 | 28.17 | 29.8 | * | 25.8 | * | 74.0 | 54.0 | -48.2 | * |
| 2876.271 | -31.68 | 30.31 | 26.1 | * | 24.7 | * | 74.0 | 54.0 | -49.3 | * |
| 4808.29 | -30.46 | 33.65 | 25.5 | * | 28.7 | * | 74.0 | 54.0 | -45.3 | * |
| 7293.36 | -29.08 | 36.33 | 27.7 | * | 35.0 | * | 74.0 | 54.0 | -39.0 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 27 of 68 Date: Jul. 05, 2007 |
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| | | | |
|--------------------|--------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1 – 12.5 GHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH39-TX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|-------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2441 | -32.23 | 28.62 | 82.3 | 62.39 | 78.7 | 58.8 | N/A | N/A | N/A | N/A |
| 2243.245 | -32.53 | 27.69 | 34 | * | 29.2 | * | 74.0 | 54.0 | -44.8 | * |
| 2443.468 | -32.23 | 28.09 | 33.5 | * | 29.4 | * | 74.0 | 54.0 | -44.6 | * |
| 2845.479 | -31.64 | 30.13 | 34.6 | * | 33.1 | * | 74.0 | 54.0 | -40.9 | * |
| 4876.647 | -30.28 | 33.70 | 33.8 | * | 37.2 | * | 74.0 | 54.0 | -36.8 | * |
| 7267.344 | -29.04 | 36.31 | 34.1 | * | 41.4 | * | 74.0 | 54.0 | -32.6 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2441 | -32.23 | 28.08 | 84.3 | 52.3 | 80.2 | 48.2 | N/A | N/A | N/A | N/A |
| 2243.245 | -32.53 | 27.69 | 35.7 | * | 30.9 | * | 74.0 | 54.0 | -43.1 | * |
| 2443.468 | -32.23 | 28.09 | 34.7 | * | 30.6 | * | 74.0 | 54.0 | -43.4 | * |
| 2845.479 | -31.64 | 30.13 | 35.8 | * | 34.3 | * | 74.0 | 54.0 | -39.7 | * |
| 4876.647 | -30.28 | 33.70 | 34.3 | * | 37.7 | * | 74.0 | 54.0 | -36.3 | * |
| 7267.344 | -29.04 | 36.31 | 38.1 | * | 45.4 | * | 74.0 | 54.0 | -28.6 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 28 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1-12.5GHz | Measured Distance: | 3m |
| Receiver Detector: | PK. or AV. | Tested Mode: | CH39-Standby |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2441 | -32.23 | 28.62 | 84.2 | 63.5 | 80.6 | 59.9 | N/A | N/A | N/A | N/A |
| 2276.365 | -32.44 | 27.75 | 31.2 | * | 26.5 | * | 74.0 | 54.0 | -47.5 | * |
| 2418.758 | -32.19 | 28.04 | 34.6 | * | 30.4 | * | 74.0 | 54.0 | -43.6 | * |
| 2824.635 | -31.72 | 30.01 | 33.5 | * | 31.8 | * | 74.0 | 54.0 | -42.2 | * |
| 4902.243 | -30.22 | 33.72 | 29.7 | * | 33.2 | * | 74.0 | 54.0 | -40.8 | * |
| 7245.724 | -29.01 | 36.30 | 33.4 | * | 40.7 | * | 74.0 | 54.0 | -33.3 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2441 | -32.23 | 28.08 | 83.7 | 55.8 | 79.6 | 51.7 | N/A | N/A | N/A | N/A |
| 2276.365 | -32.44 | 27.75 | 34.3 | * | 29.6 | * | 74.0 | 54.0 | -44.4 | * |
| 2418.758 | -32.19 | 28.04 | 33.7 | * | 29.5 | * | 74.0 | 54.0 | -44.5 | * |
| 2824.635 | -31.72 | 30.01 | 36.2 | * | 34.5 | * | 74.0 | 54.0 | -39.5 | * |
| 4902.243 | -30.22 | 33.72 | 32.6 | * | 36.1 | * | 74.0 | 54.0 | -37.9 | * |
| 7245.724 | -29.01 | 36.30 | 39.2 | * | 46.5 | * | 74.0 | 54.0 | -27.5 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 29 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

| | | | |
|--------------------|------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1-12.5GHz | Measured Distance: | 3m |
| Receiver Detector: | PK. or AV. | Tested Mode: | CH39-RX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2441 | -32.23 | 28.62 | 85.6 | 62.9 | 82.0 | 59.3 | N/A | N/A | N/A | N/A |
| 2276.365 | -32.44 | 27.75 | 29.6 | * | 24.9 | * | 74.0 | 54.0 | -49.1 | * |
| 2418.758 | -32.19 | 28.04 | 30.2 | * | 26.0 | * | 74.0 | 54.0 | -48.0 | * |
| 2824.635 | -31.72 | 30.01 | 33.1 | * | 31.4 | * | 74.0 | 54.0 | -42.6 | * |
| 4902.243 | -30.22 | 33.72 | 24.9 | * | 28.4 | * | 74.0 | 54.0 | -45.6 | * |
| 7245.724 | -29.01 | 36.30 | 32.6 | * | 39.9 | * | 74.0 | 54.0 | -34.1 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2441 | -32.23 | 28.08 | 81.5 | 56.7 | 77.4 | 52.6 | N/A | N/A | N/A | N/A |
| 2276.365 | -32.44 | 27.75 | 28.5 | * | 23.8 | * | 74.0 | 54.0 | -50.2 | * |
| 2418.758 | -32.19 | 28.04 | 29.3 | * | 25.1 | * | 74.0 | 54.0 | -48.9 | * |
| 2824.635 | -31.72 | 30.01 | 32.7 | * | 31.0 | * | 74.0 | 54.0 | -43.0 | * |
| 4902.243 | -30.22 | 33.72 | 26.5 | * | 30.0 | * | 74.0 | 54.0 | -44.0 | * |
| 7245.724 | -29.01 | 36.30 | 35.8 | * | 43.1 | * | 74.0 | 54.0 | -30.9 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 30 of 68 Date: Jul. 05, 2007 |
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| | | | |
|--------------------|--------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1 – 12.5 GHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P. or AV. | Tested Mode: | CH78-TX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2480 | -32.19 | 28.73 | 84.1 | 61.7 | 80.6 | 58.2 | N/A | N/A | N/A | N/A |
| 2455.165 | -32.23 | 28.11 | 32.2 | * | 28.1 | * | 74.0 | 54.0 | -45.9 | * |
| 2565.134 | -31.89 | 28.56 | 34.1 | * | 30.8 | * | 74.0 | 54.0 | -43.2 | * |
| 2976.562 | -31.99 | 30.87 | 35 | * | 33.9 | * | 74.0 | 54.0 | -40.1 | * |
| 4845.42 | -30.35 | 33.68 | 34.8 | * | 38.1 | * | 74.0 | 54.0 | -35.9 | * |
| 7276.63 | -29.06 | 36.32 | 34.7 | * | 42.0 | * | 74.0 | 54.0 | -32.0 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2480 | -32.19 | 28.16 | 86.1 | 50.7 | 82.1 | 46.7 | N/A | N/A | N/A | N/A |
| 2455.165 | -32.23 | 28.11 | 36.3 | * | 32.2 | * | 74.0 | 54.0 | -41.8 | * |
| 2565.134 | -31.89 | 28.56 | 36.5 | * | 33.2 | * | 74.0 | 54.0 | -40.8 | * |
| 2976.562 | -31.99 | 30.87 | 36.5 | * | 35.4 | * | 74.0 | 54.0 | -38.6 | * |
| 4845.42 | -30.35 | 33.68 | 36.9 | * | 40.2 | * | 74.0 | 54.0 | -33.8 | * |
| 7276.63 | -29.06 | 36.32 | 37.4 | * | 44.7 | * | 74.0 | 54.0 | -29.3 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. "*": Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 31 of 68 Date: Jul. 05, 2007 |
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| | | | |
|--------------------|------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1-12.5GHz | Measured Distance: | 3m |
| Receiver Detector: | PK. or AV. | Tested Mode: | CH78-Standby |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2480 | -32.19 | 28.73 | 86.3 | 63.7 | 82.8 | 60.2 | N/A | N/A | N/A | N/A |
| 2471.385 | -32.21 | 28.14 | 33.5 | * | 29.4 | * | 74.0 | 54.0 | -44.6 | * |
| 2605.462 | -32.08 | 28.79 | 33.9 | * | 30.6 | * | 74.0 | 54.0 | -43.4 | * |
| 2928.125 | -31.76 | 30.60 | 34.7 | * | 33.5 | * | 74.0 | 54.0 | -40.5 | * |
| 4805.87 | -30.47 | 33.64 | 35.2 | * | 38.4 | * | 74.0 | 54.0 | -35.6 | * |
| 7245.79 | -29.01 | 36.30 | 34.6 | * | 41.9 | * | 74.0 | 54.0 | -32.1 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2480 | -32.19 | 28.16 | 82.5 | 53.6 | 78.5 | 49.6 | N/A | N/A | N/A | N/A |
| 2471.385 | -32.21 | 28.14 | 34.3 | * | 30.2 | * | 74.0 | 54.0 | -43.8 | * |
| 2605.462 | -32.08 | 28.79 | 35.4 | * | 32.1 | * | 74.0 | 54.0 | -41.9 | * |
| 2928.125 | -31.76 | 30.60 | 35.6 | * | 34.4 | * | 74.0 | 54.0 | -39.6 | * |
| 4805.87 | -30.47 | 33.64 | 36.5 | * | 39.7 | * | 74.0 | 54.0 | -34.3 | * |
| 7245.79 | -29.01 | 36.30 | 36.9 | * | 44.2 | * | 74.0 | 54.0 | -29.8 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|--------------------|---|
|  Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan | TEST REPORT | Reference No.: A07061302 Report No.: FCCA07061302 Page: 32 of 68 Date: Jul. 05, 2007 |
|---|--------------------|---|

| | | | |
|--------------------|------------|--------------------|---------------|
| Temperature: | 26°C | Humidity: | 62%RH |
| Frequency Range: | 1-12.5GHz | Measured Distance: | 3m |
| Receiver Detector: | PK. or AV. | Tested Mode: | CH78-RX |
| Tested By: | Jeff Yu | Tested Date: | Jun. 26, 2007 |

Antenna Polarization: Horizontal

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2480 | -32.19 | 28.73 | 87.2 | 65.9 | 83.7 | 62.4 | N/A | N/A | N/A | N/A |
| 2471.385 | -32.21 | 28.14 | 32.2 | * | 28.1 | * | 74.0 | 54.0 | -45.9 | * |
| 2605.462 | -32.08 | 28.79 | 33.4 | * | 30.1 | * | 74.0 | 54.0 | -43.9 | * |
| 2928.125 | -31.76 | 30.60 | 33.8 | * | 32.6 | * | 74.0 | 54.0 | -41.4 | * |
| 4805.87 | -30.47 | 33.64 | 33.6 | * | 36.8 | * | 74.0 | 54.0 | -37.2 | * |
| 7245.79 | -29.01 | 36.30 | 32.4 | * | 39.7 | * | 74.0 | 54.0 | -34.3 | * |

Antenna Polarization: Vertical

| Frequency (MHz) | Corret Factor (dB) | Antenna Factor (dB/m) | Reading (dB μ V) | | Emission (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | |
|--------------------|-----------------------|-----------------------------|-------------------------|------|----------------------------|------|-------------------------|------|----------------|-----|
| | | | PK | AV | PK | AV | PK | AV | PK | AV |
| 2480 | -32.19 | 28.16 | 84.3 | 58.1 | 80.3 | 54.1 | N/A | N/A | N/A | N/A |
| 2471.385 | -32.21 | 28.14 | 35.2 | * | 31.1 | * | 74.0 | 54.0 | -42.9 | * |
| 2605.462 | -32.08 | 28.79 | 34.5 | * | 31.2 | * | 74.0 | 54.0 | -42.8 | * |
| 2928.125 | -31.76 | 30.60 | 35.3 | * | 34.1 | * | 74.0 | 54.0 | -39.9 | * |
| 4805.87 | -30.47 | 33.64 | 35.3 | * | 38.5 | * | 74.0 | 54.0 | -35.5 | * |
| 7245.79 | -29.01 | 36.30 | 34.5 | * | 41.8 | * | 74.0 | 54.0 | -32.2 | * |

NOTE :

1. Measurement uncertainty is +/-2dB.
2. **: Measurement does not apply for this frequency.
3. Emission Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

| | | |
|---|----------------------|---|
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|---|----------------------|---|

4.3 CHANNEL SEPARATION TEST

4.3.1 LIMIT

FCC Part15, Subpart C Section 15.247(a)(1). Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

| FREQUENCY RANGE (MHz) | Limit(kHz) |
|-----------------------|------------|
| 902-928 | >25kHz |
| 2400-2483.5 | >25kHz |
| 5725-5850 | >25kHz |

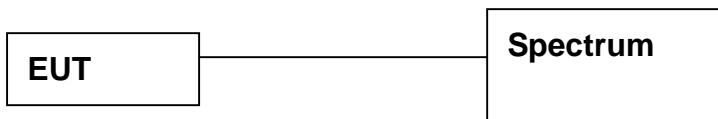
4.3.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test :

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|----------------|-----------------|---------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2008 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.3.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
Printed out the test result from the spectrum by hard copy function.

4.3.5 EUT OPERATING CONDITION

Same as section 4.1.5 of the report.



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4.3.6 TEST RESULT

| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 27°C | Humidity: | 59%RH |
| Spectrum Detector: | PK | Tested by: | Jeff Yu |
| Test Result: | PASS | Tested Date: | Jul. 05, 2007 |

| CHANNEL FREQUENCY (MHz) | SEPARATION READ VALUE (kHz) | SEPARATION LIMIT (kHz) |
|-------------------------------|-----------------------------------|------------------------------|
| 2402-2403 | 1000.000 | >25kHz |
| 2440-2441 | 1000.000 | >25kHz |
| 2479-2480 | 1000.000 | >25kHz |



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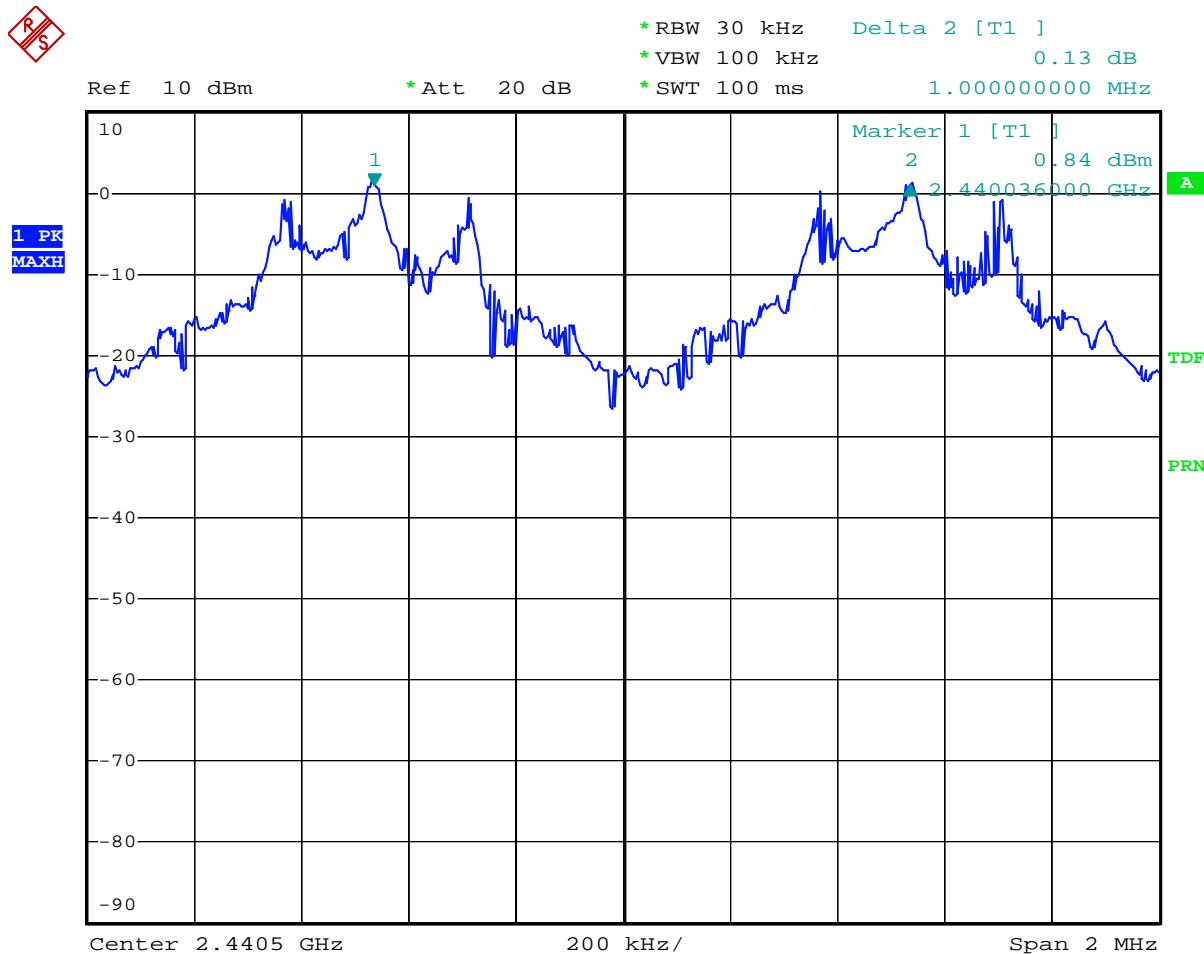
2402-2403:



Date: 5.JUL.2007 11:04:59

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 36 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

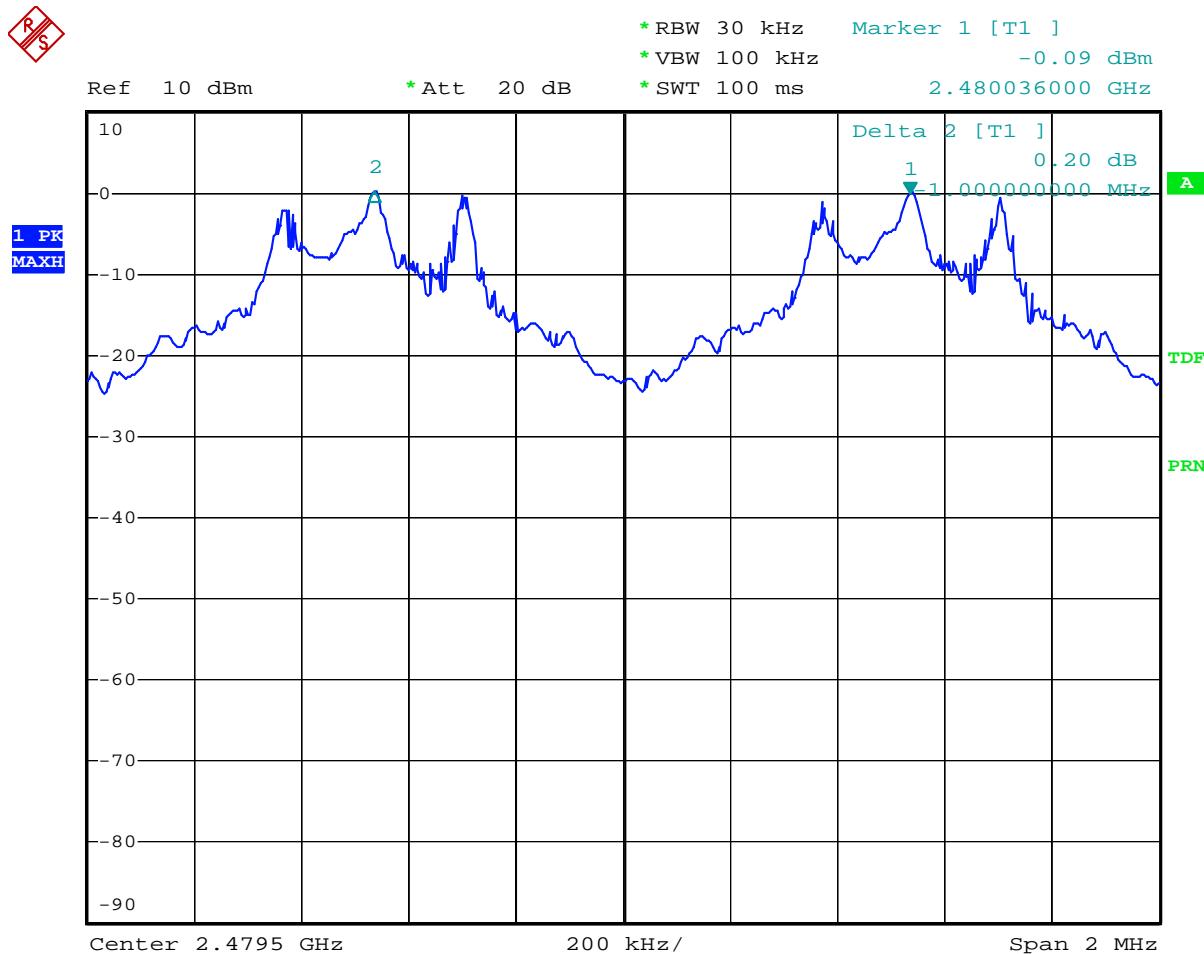
2440-2441:



Date: 5.JUL.2007 10:15:41

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 37 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

2479-2480:



Date: 5.JUL.2007 10:24:15

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 38 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

4.4 QUANTITY OF HOPPING CHANNEL TEST

4.4.1 LIMIT

FCC Part15, Subpart C Section 15.247.

| FREQUENCY RANGE (MHz) | Limit (Quantity of Hopping Channel) | | | |
|-----------------------|-------------------------------------|------------------------|----------------------|----------------------|
| | 20dB bandwidth <250kHz | 20dB bandwidth >250kHz | 20dB bandwidth <1MHz | 20dB bandwidth >1MHz |
| 902-928 | 50 | 25 | N/A | N/A |
| 2400-2483.5 | N/A | N/A | 75 | 15 |
| 5725-5850 | N/A | N/A | 75 | N/A |

4.4.2 TEST EQUIPMENT

The following test equipment was used during the test:

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|----------------|-----------------|---------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2008 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.4.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
Printed out the test result from the spectrum by hard copy function.

4.4.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

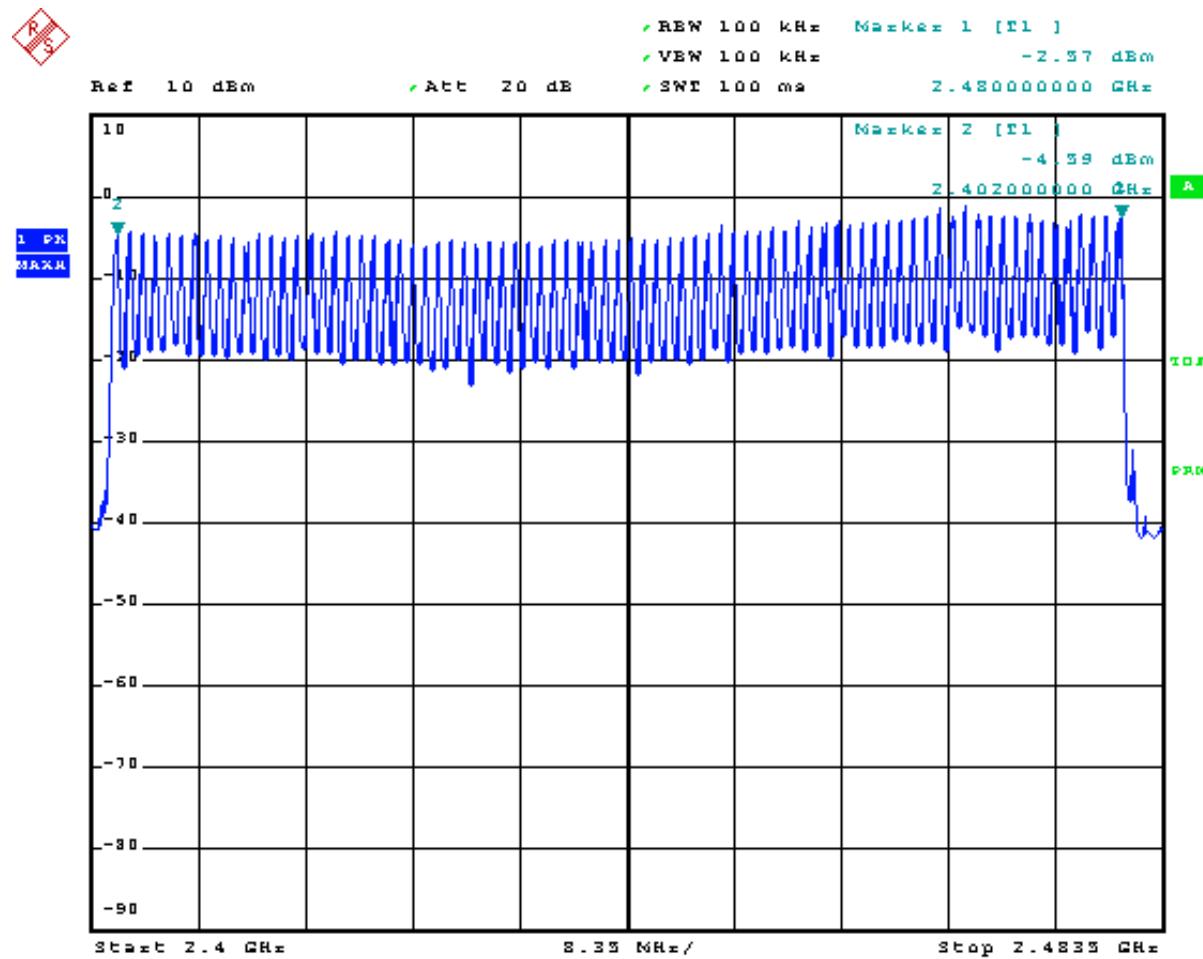
| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 39 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

4.4.6 TEST RESULT

| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 27°C | Humidity: | 59%RH |
| Spectrum Detector: | PK | Tested by: | Jeff Yu |
| Test Result: | PASS | Tested Date: | Jun. 22, 2007 |

| HOPPING CHANNEL FREQUENCY RANGE | QUANTITY OF HOPPING CHANNEL READ VALUE | QUANTITY OF HOPPING CHANNEL LIMIT |
|---------------------------------------|---|--------------------------------------|
| 2402~2480 | 79 | 75 |

CH0-CH78



Date: 22.JUN.2007 13:58:32

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 40 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

4.5 AVERAGE TIME OF OCCUPANCY TEST(Dwell Time)

4.5.1 LIMIT

FCC Part15, Subpart C Section 15.247.

| FREQUENCY RANGE (MHz) | LIMIT (ms) | | |
|-----------------------|-----------------------------------|-----------------------------------|---------------------------------|
| | 20dB bandwidth <250kHz(50Channel) | 20dB bandwidth >250kHz(25Channel) | 20dB bandwidth <1MHz(75Channel) |
| 902-928 | 400(20s) | 400(10s) | NA |
| 2400-2483.5 | NA | NA | 400(30s) |
| 5725-5850 | NA | NA | 400(30s) |

NOTE: The “()” is all channel's average time of occupancy.

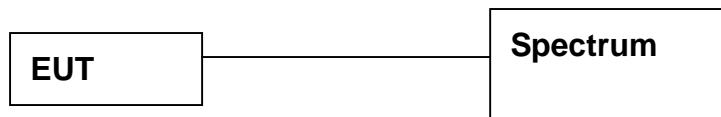
4.5.2 TEST EQUIPMENT

The following test equipment was used during the test:

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|----------------|-----------------|---------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2008 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.5.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
 Printed out the test result from the spectrum by hard copy function.

4.5.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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4.5.6 TEST RESULT

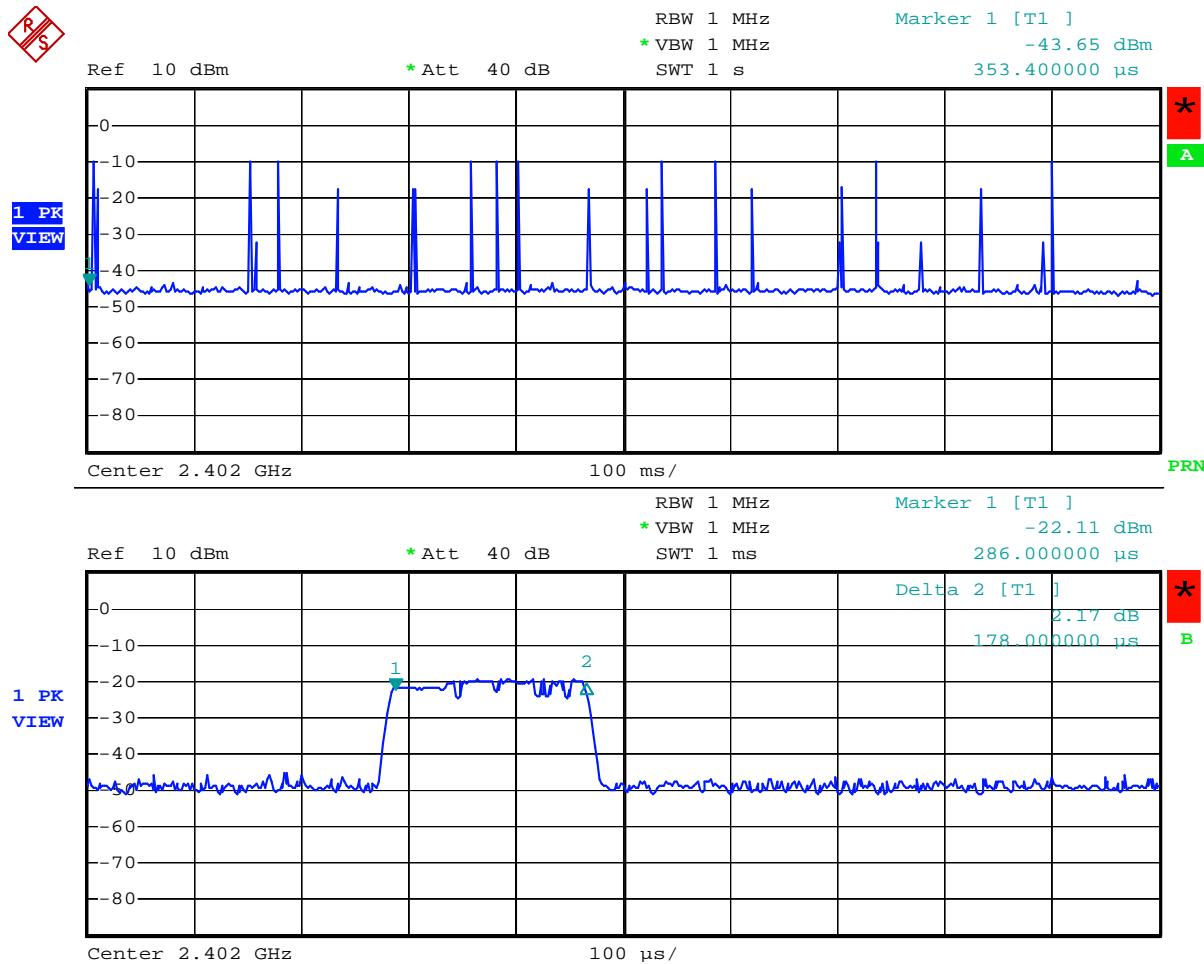
| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 27°C | Humidity: | 59%RH |
| Spectrum Detector: | PK | Tested by: | Jeff Yu |
| Test Result: | PASS | Tested Date: | Jun. 27, 2007 |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | Pulse Time (μs) | Burts (in 1 sec.) | Time of occupancy (Dwell Time) (ms) | Average time of occupancy LIMIT (ms) |
|----------------|-------------------------|-----------------|-------------------|-------------------------------------|--------------------------------------|
| 0 | 2402.00 | 178 | 10 | 56.25 | 400 |
| 39 | 2441.00 | 130 | 10 | 56.88 | 400 |
| 78 | 2480.00 | 174 | 10 | 54.98 | 400 |

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CH0:



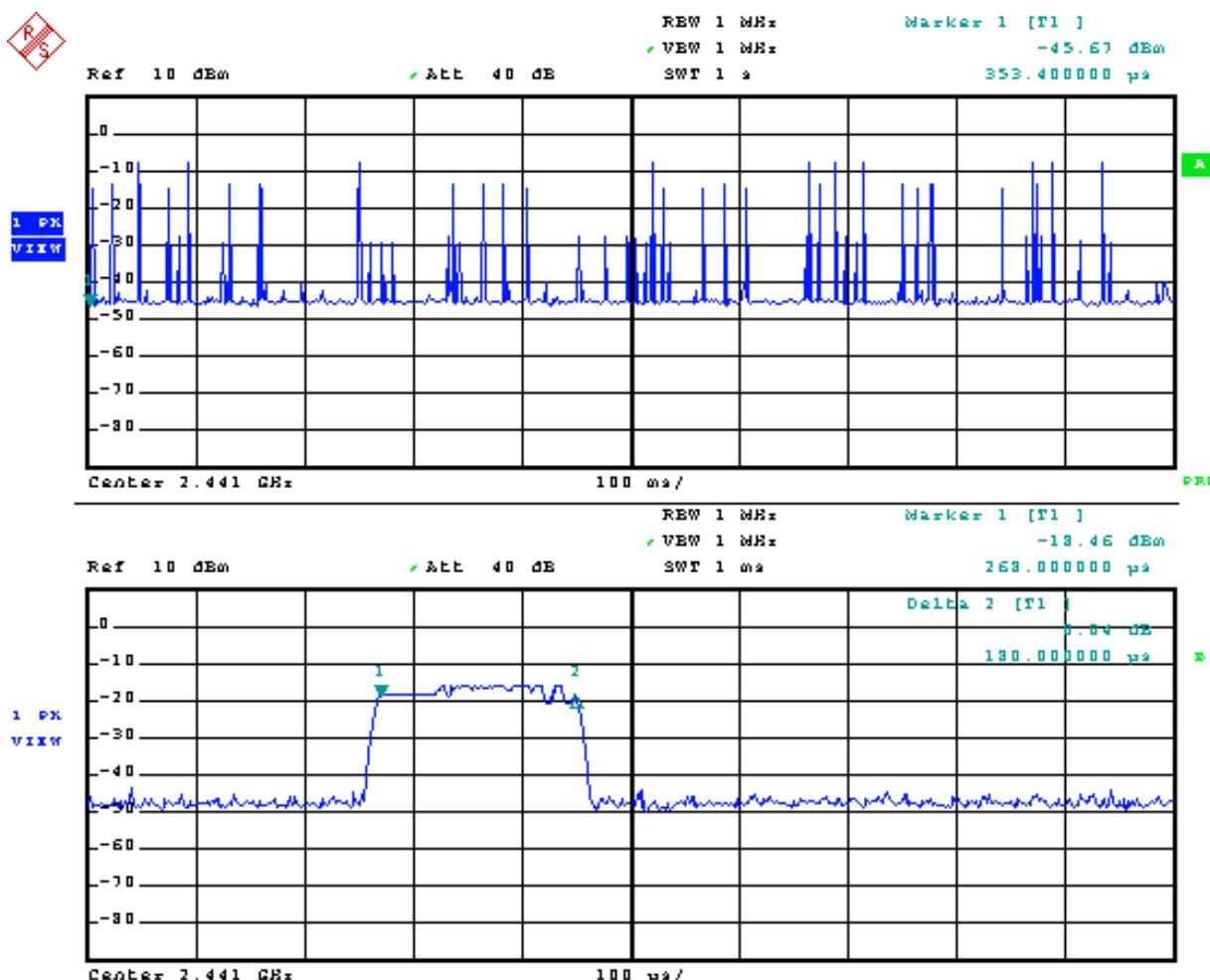
Date: 27.JUN.2007 19:17:48



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Ch39:



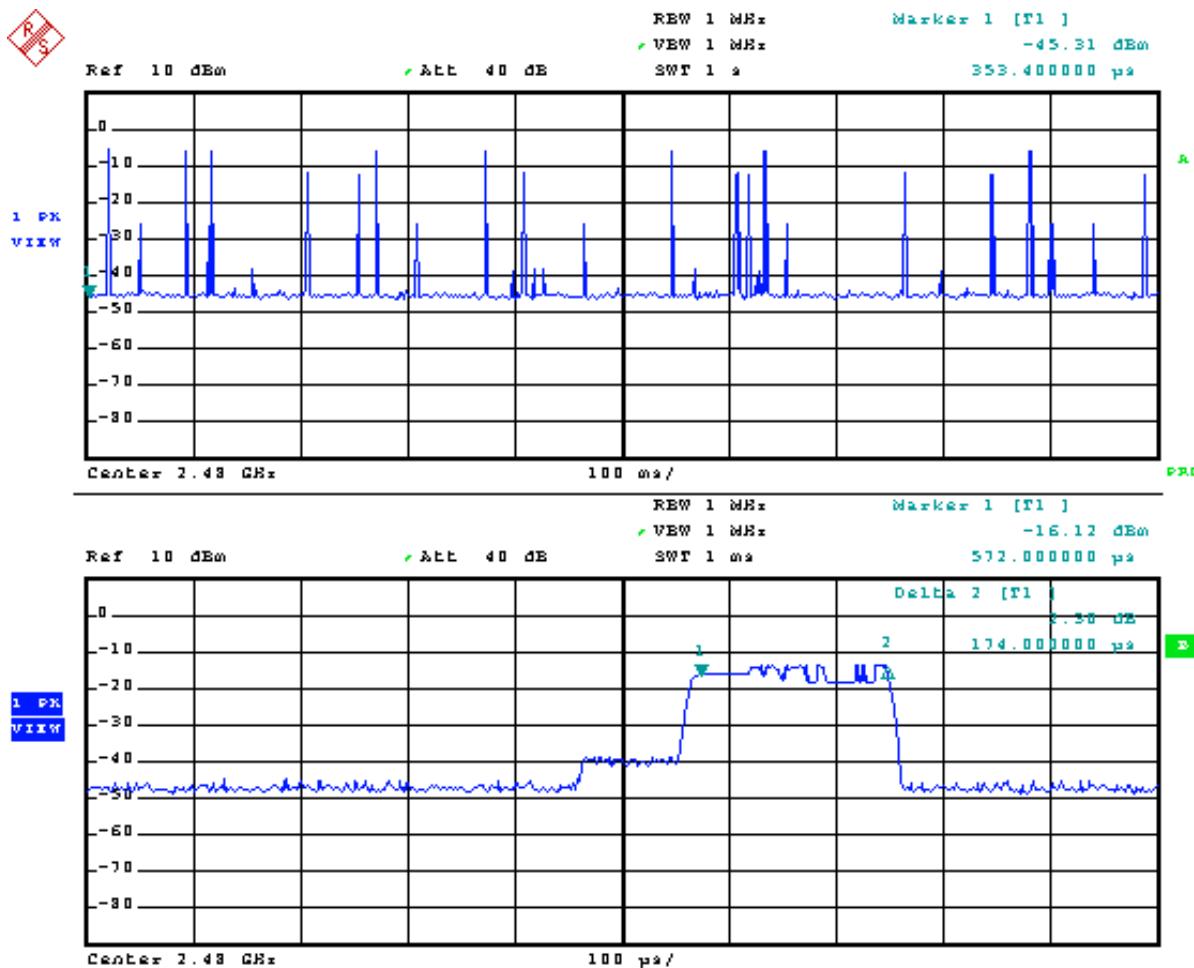
Date: 27.JUN.2007 19:06:07



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CH78:



Date: 27.JUN.2007 19:09:06

| | | |
|---|----------------------|---|
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|---|----------------------|---|

4.6 MAXIMUM PEAK POWER TEST

4.6.1 LIMIT

FCC Part15, Subpart C Section 15.247.

| FREQUENCY RANGE (MHz) | Quantity of Hopping Channel | LIMIT (W) | | | |
|-----------------------|-----------------------------|--------------|--------------|----------|----------|
| | | 50 | 25 | 15 | 75 |
| 902-928 | 1(30dBm) | 0.125(21dBm) | NA | NA | NA |
| 2400-2483.5 | NA | NA | 0.125(21dBm) | 1(30dBm) | NA |
| 5725-5850 | NA | NA | NA | NA | 1(30dBm) |

4.6.2 TEST EQUIPMENT

The following test equipment was used during the test :

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|--|-----------------|---------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2008 R&S |
| POWER METER | N/A | BOONTON | 4232A/ 29001 | MAY 2008 ETC |
| POWER SENSOR | DC-18GHz 0.3 μ W-100mW 50 Ω | BOONTON | 51011-EMC/ 31184 | JUN. 2008 ETC |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



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4.6.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.6.4 TEST PROCEDURE

The EUT was operating in hopping mode or could control its channel.
Printed out the test result from the spectrum by hard copy function.
Recorded the read value of the power meter.

4.6.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

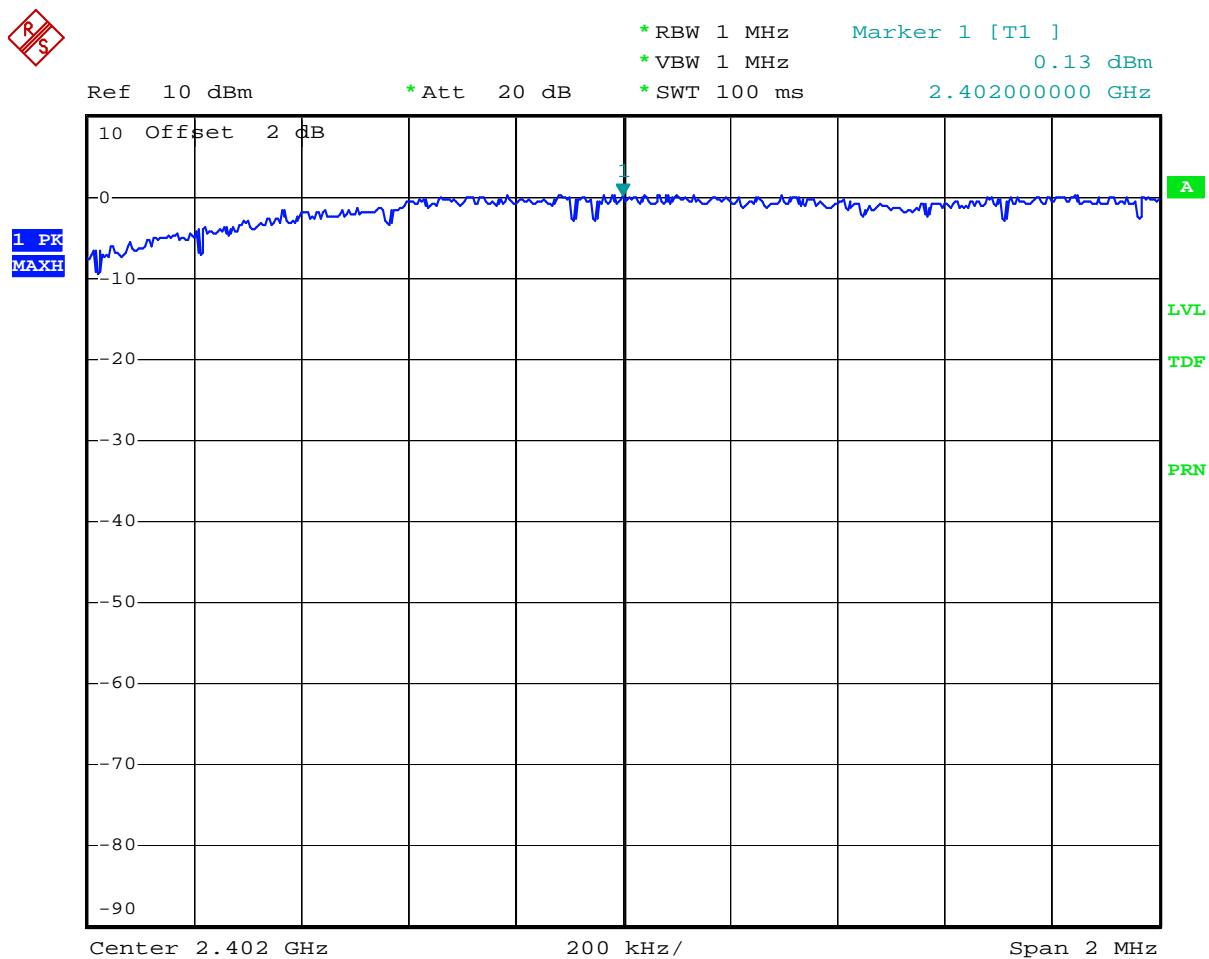
4.6.6 TEST RESULT

| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 27°C | Humidity: | 59%RH |
| Spectrum Detector: | PK | Tested by: | Jeff Yu |
| Test Result: | PASS | Tested Date: | Jun. 22, 2007 |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) |
|----------------|-------------------------|-------------------------|------------------------|
| 0 | 2402.0000 | 0.13 | 30 |
| 39 | 2441.0000 | -0.69 | 30 |
| 78 | 2480.0000 | 0.99 | 30 |

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 47 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

CH0:



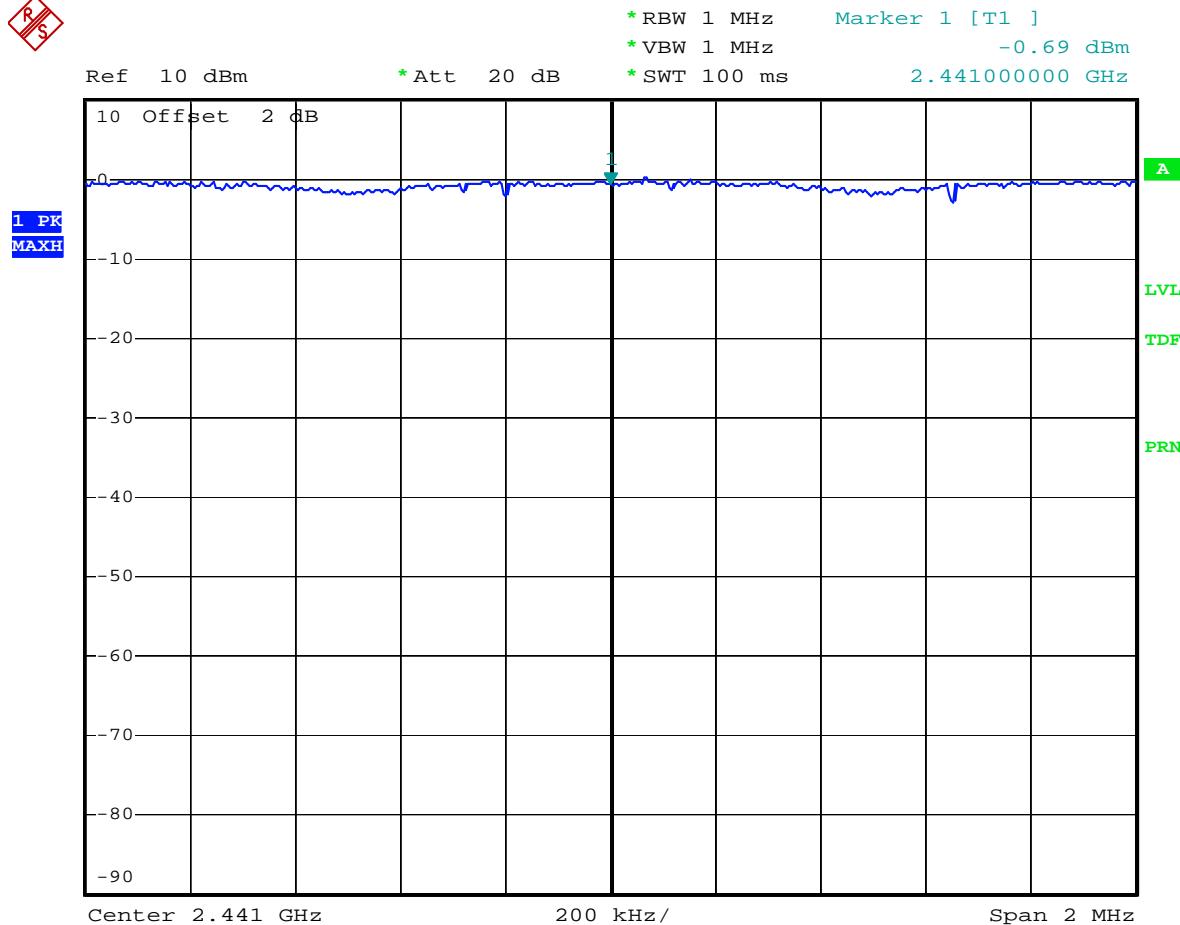
Date: 22.JUN.2007 15:38:58



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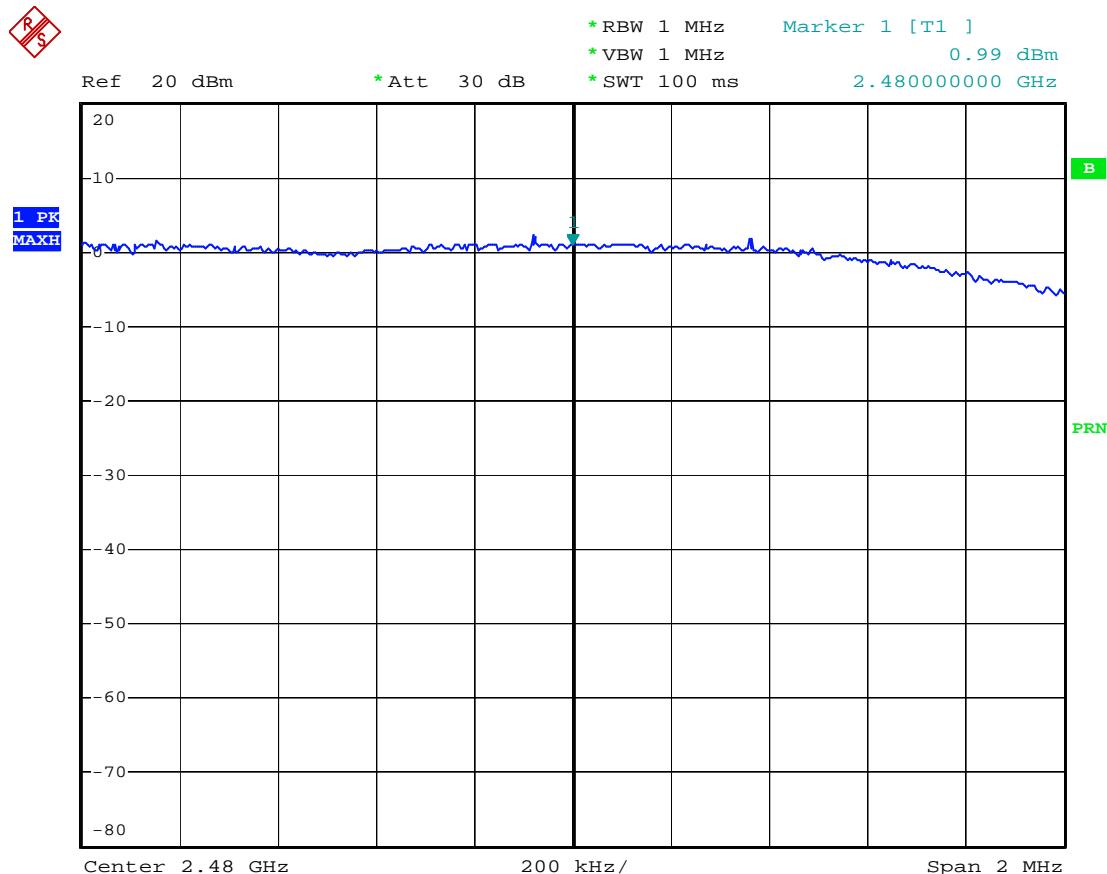
CH39:



Date: 22.JUN.2007 15:46:11

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 49 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

CH78:



Date: 16.JUL.2007 11:57:20

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 50 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

4.7 BAND EDGE TEST

4.7.1 LIMIT

FCC Part15, Subpart C Section 15.247. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

| OPERATING FREQUENCY RANGE (MHz) | SPURIOUS EMISSION FREQUENCY (MHz) | LIMIT | |
|---------------------------------|-----------------------------------|------------------------------------|------------------------|
| | | Peak power ration to emission(dBc) | Emission level(dBuV/m) |
| 902-928 | <902 | >20 | NA |
| | >928 | >20 | NA |
| | 960-1240 | NA | 54 |
| 2400-2483.5 | <2400 | >20 | NA |
| | >2483.5-2500 | NA | 54 |
| 5725-5850 | <5350-5460 | NA | 54 |
| | <5725 | >20 | NA |
| | >5850 | >20 | NA |

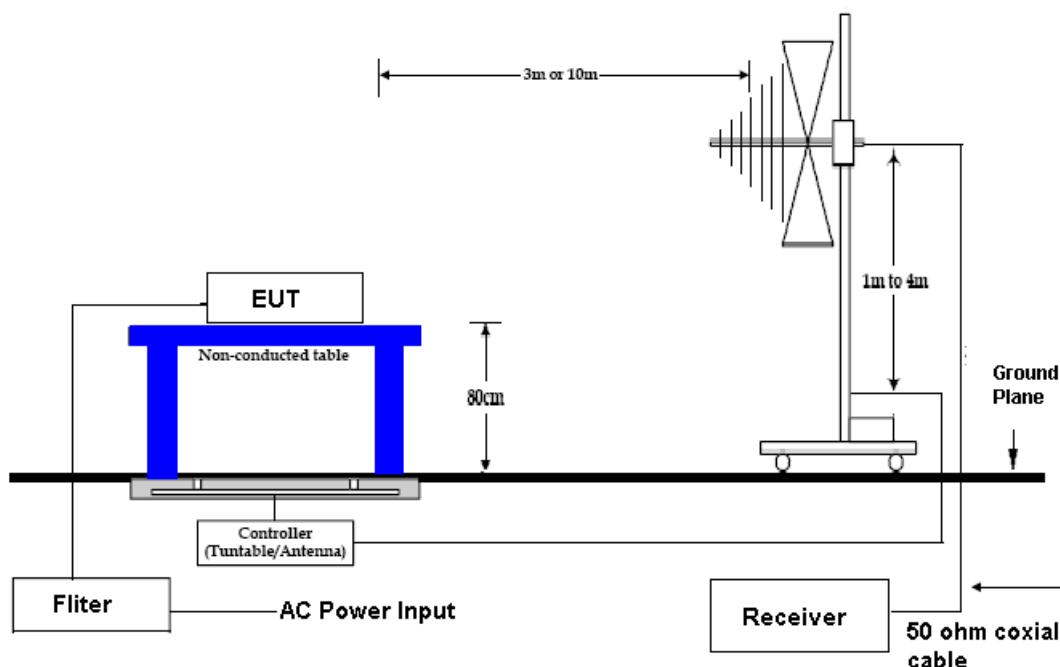
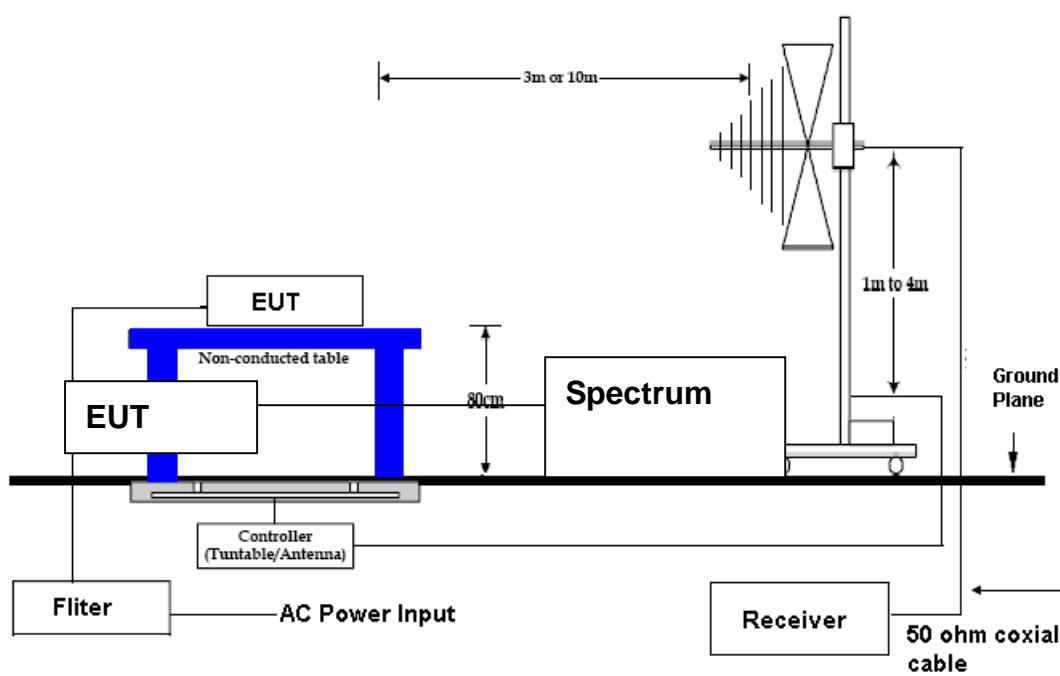
| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 51 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

4.7.2 TEST EQUIPMENT

The following test equipment was used during the test :

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|--------------------------|---------------------------|-----------------|-----------------------|-----------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2008 R&S |
| EMI TEST RECEIVER | 9 kHz TO 2750 MHz | ROHDE & SCHWARZ | ESCS30/ 830245/012 | AUG. 2007 R&S |
| SPECTRUM | 9KHz-26.5GHz | HP | 8593E/ 3710A03220 | MAY 2008 ETC |
| PRE-AMPLIFIER | 1GHz-26.5GHz Gain:30dB | HP | 8449B/ 3008A01019 | NOV. 2008 ETC |
| BI-LOG ANTENNA | 25 MHz TO 2 GHz | EMCO | 3142/ 9701-1124 | FEB. 2008 SRT |
| HORN ANTENNA | 1GHz to 18GHz | EMCO | 3115/ 9602-4681 | DEC. 2007 ETC |
| OATS | 3 - 10 M measurement | SRT | SRT-1 | APR. 2008 SRT |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

**NOTE :**

1. The EUT system was put on a wooden table with 0.8m heights above a ground plane.
2. For the actual test configuration, please refer to the photos of testing.

| | | |
|---|----------------------|---|
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|---|----------------------|---|

4.7.4 TEST PROCEDURE

1. The EUT was operating in hopping mode or could be controlled its channel.
Printed out the test result from the spectrum by hard copy function.
2. The EUT was tested according to the requirement of ANSI C63.4 and CISPR 22.
The measurements were made at an open area test site with 10 meter measurement distance under 1 GHz and with 3m distance above 1GHz. The frequency spectrum measured started from 30 MHz. Under 1 GHz. All readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver. Above 1 GHz, the measurements were made at an open area test site with 3 meter measurement distance and all readings were peak and average values with 1 MHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

4.7.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

4.7.6 TEST RESULT

| | | | |
|--------------------|---------|--------------|---------------|
| Temperature: | 26°C | Humidity: | 60%RH |
| Spectrum Detector: | PK & AV | Tested by: | Jeff Yu |
| Test Result: | PASS | Tested Date: | Jun. 22, 2007 |

1. Conducted test

| Frequency (MHz) | PEAK POWER OUTPUT (dBm) | Emission read Value(dBm) | Result of Band edge (dBc) | Band edge LIMIT (dBc) |
|-----------------|-------------------------|--------------------------|---------------------------|-----------------------|
| <2400 | -1.49 | -39.83 | -38.34 | >20dBc |
| >2500 | 3.84 | -37.52 | -41.36 | >20dBc |

2. Radiated emission test

| Frequency (MHz) | Antenna polarization (H/V) | PEAK POWER OUTPUT (dBm) | | Emission read Value(dBuV/m) | | Band edge Limit (dBuV/m) | |
|-----------------|----------------------------|-------------------------|----|-----------------------------|----|--------------------------|------|
| | | PK | AV | PK | AV | PK | AV |
| <2400 | V | 43.8 | * | 66.89 | * | 74.0 | 54.0 |
| >2500 | V | 44.5 | * | 65.79 | * | 74.0 | 54.0 |

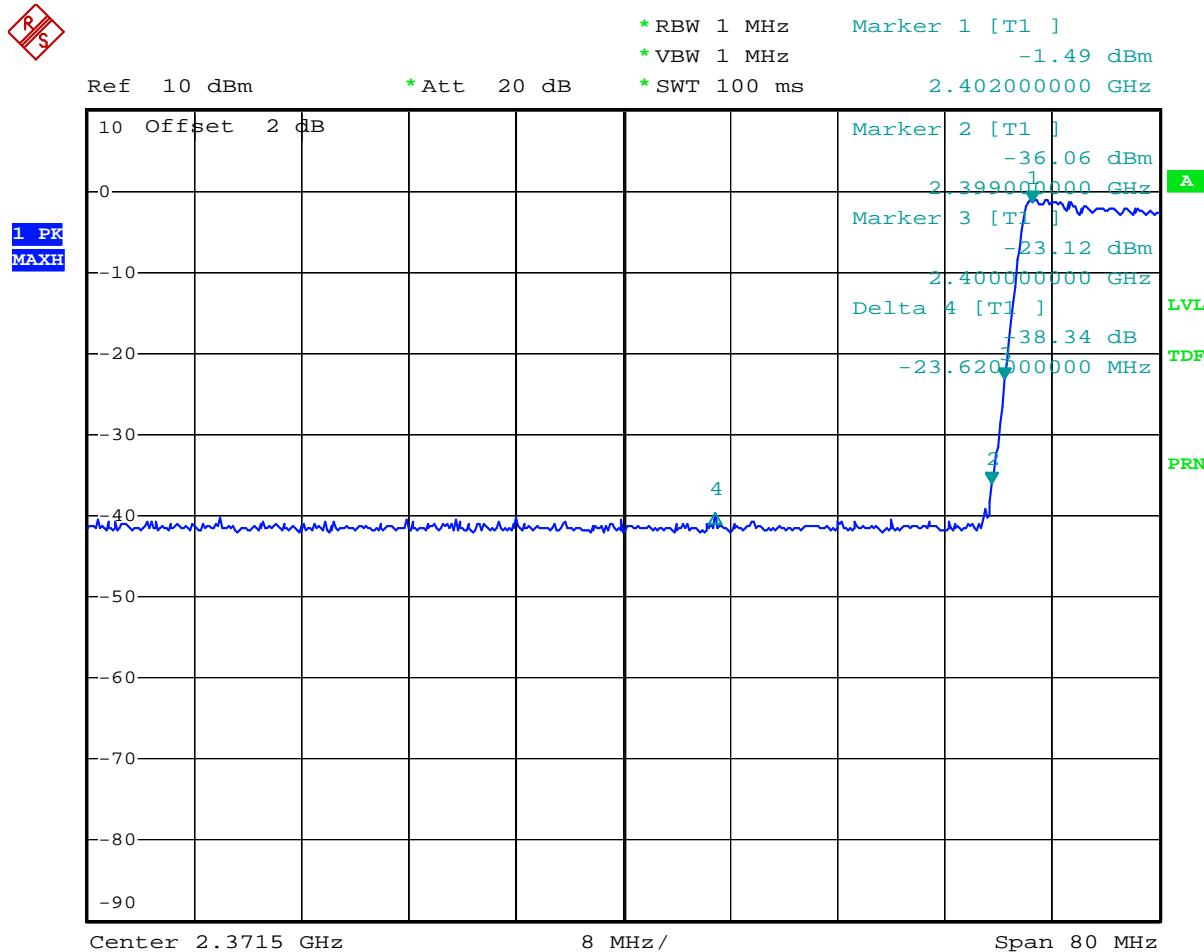


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City, Taoyuan, Taiwan

TEST REPORT

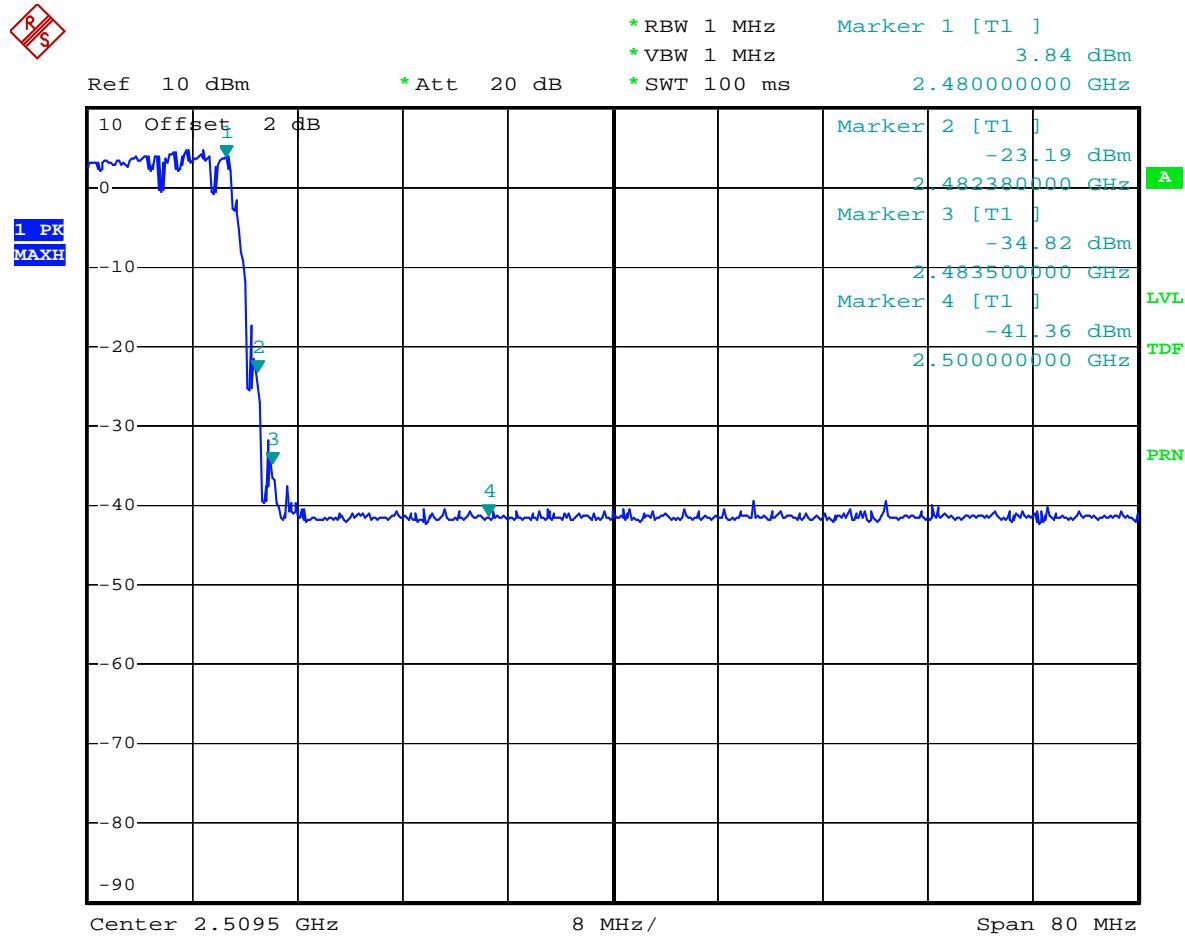
Reference No.: A07061302
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<2400MHz:



Date: 22.JUN.2007 16:24:45

>2500MHz



Date: 22.JUN.2007 16:32:05

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 56 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

4.8 20dB Bandwidth

4.8.1 LIMIT

| Frequency Range (MHz) | Quantity of Hopping Channel | Limit(kHz) | | | |
|-----------------------|-----------------------------|------------|-------|-------|----|
| | | 50 | 25 | 15 | 75 |
| 902-928 | <250 | >250 | NA | NA | |
| 2400-2483.5 | NA | NA | >1000 | <1000 | |

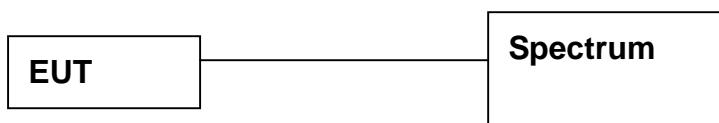
4.8.2 TEST EQUIPMENT

The following test equipment was used during the test:

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|----------------|-----------------|---------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2008 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.8.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.8.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
 Printed out the test result from the spectrum by hard copy function.

4.8.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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TEST REPORT

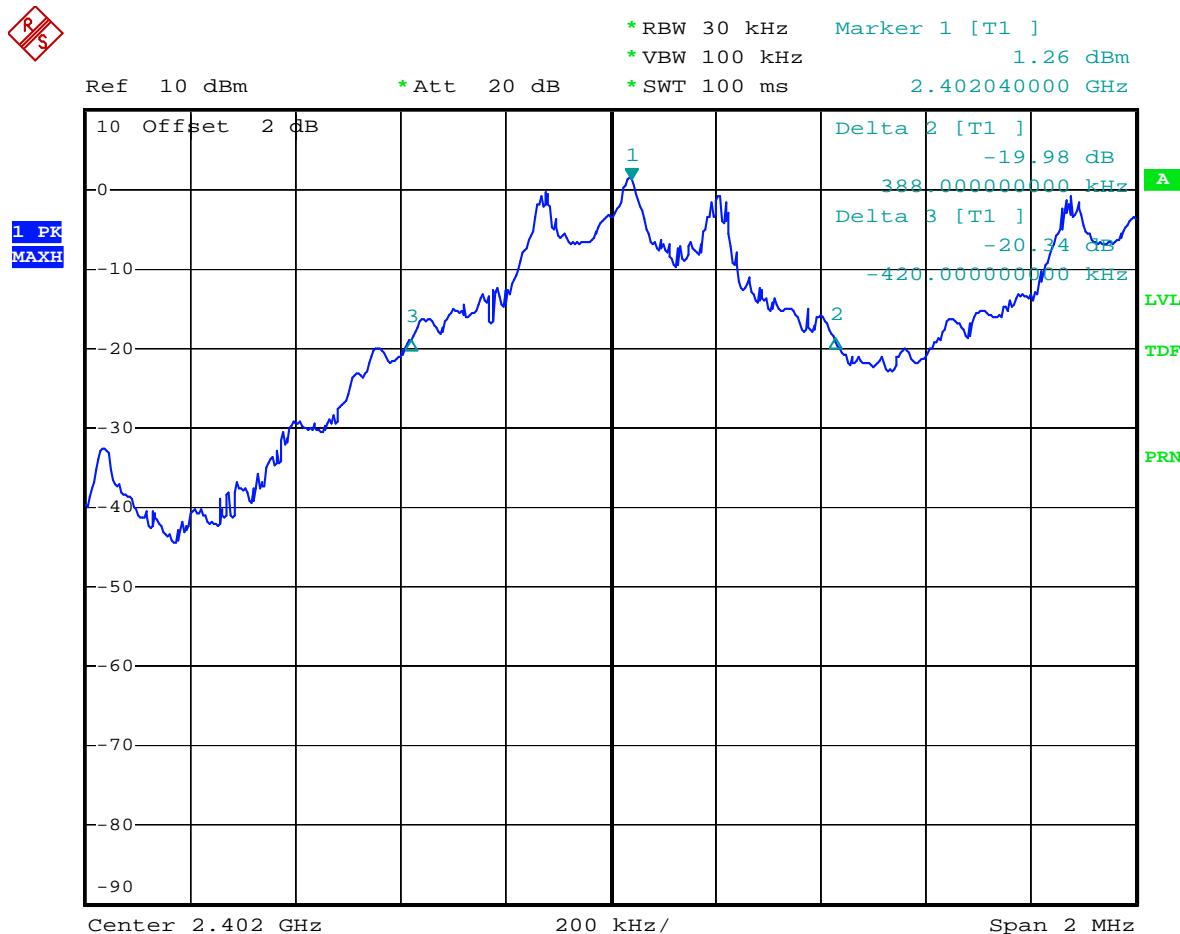
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4.8.6 TEST RESULT

| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 26°C | Humidity: | 57%RH |
| Spectrum Detector: | PK | Tested by: | Jeff Yu |
| Test Result: | PASS | Tested Date: | Jun. 25, 2007 |

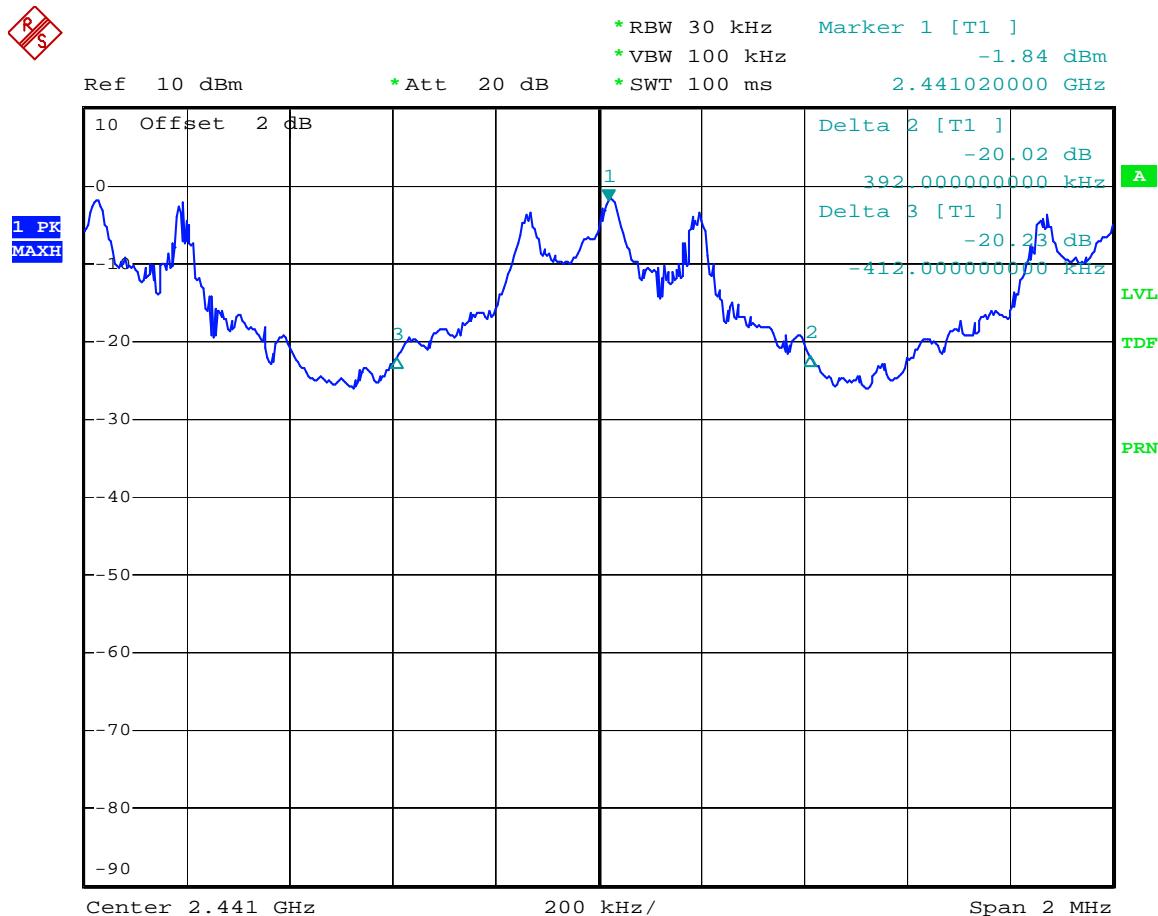
| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | 20dB DOWN BW (kHz) |
|----------------|-------------------------|--------------------|
| 0 | 2402 | 808 |
| 39 | 2441 | 804 |
| 78 | 2480 | 812 |

CH0:



Date: 25.JUN.2007 11:13:26

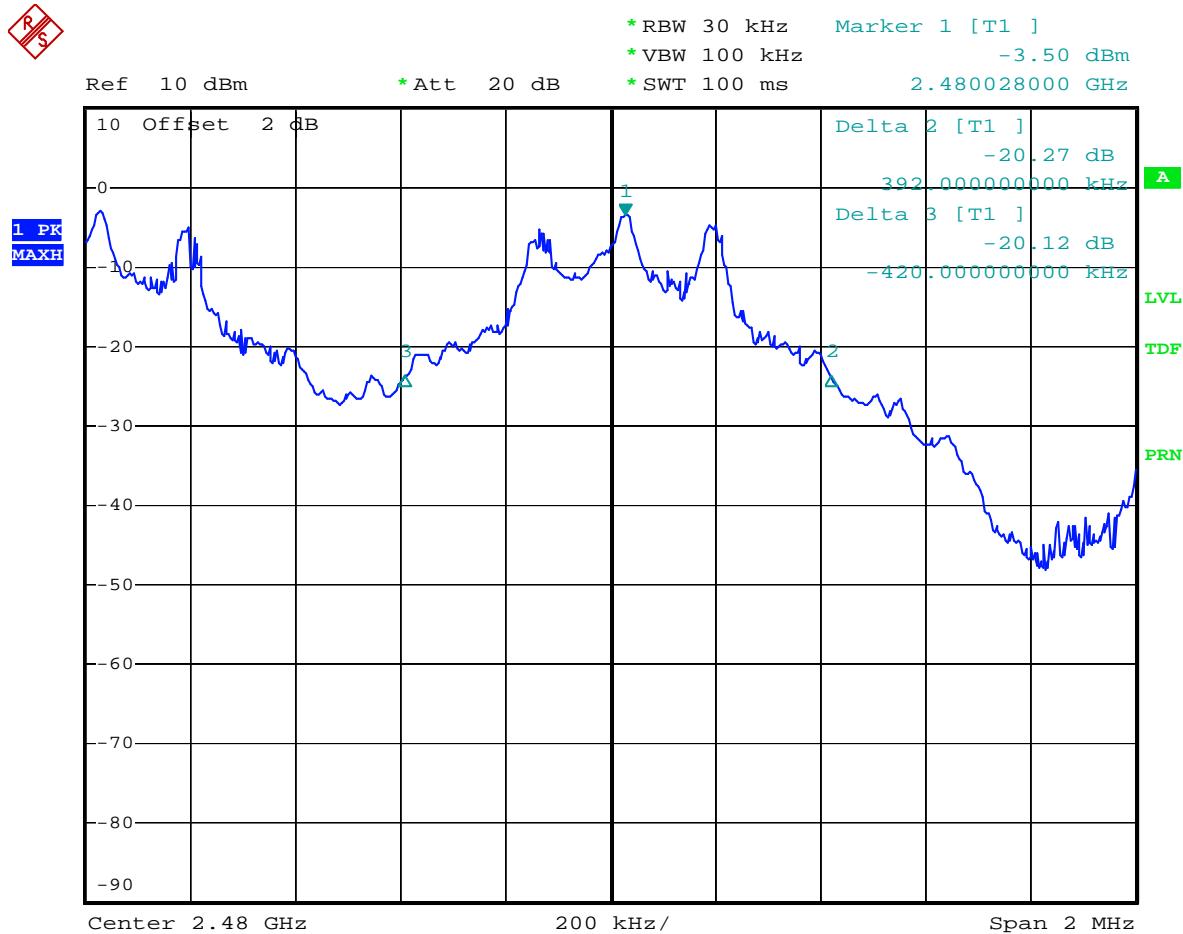
Ch39:



Date: 22.JUN.2007 17:05:46

| | | |
|---|----------------------|---|
|  <p>Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan</p> | <h1>TEST REPORT</h1> | Reference No.: A07061302 Report No.: FCCA07061302 Page: 60 of 68 Date: Jul. 05, 2007 |
|---|----------------------|---|

CH78:



Date: 22.JUN.2007 17:54:09



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5. Antenna application

5.1 Antenna requirement

The EUT's antenna is met the requirement of FCC part15C section15.203 and 15.204.

FCC part15C section15.247 requirement:

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

5.2 Result

The EUT's antenna used a dipole antenna and integrated on PCB. The antenna's gain is -8.34dBi and meets the requirement.



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7. TERMS OF ABRIVATION

| | |
|----------|--|
| AV. | Average detection |
| AZ(°) | Turn table azimuth |
| Correct. | Correction |
| EL(m) | Antenna height (meter) |
| EUT | Equipment Under Test |
| Horiz. | Horizontal direction |
| LISN | Line Impedance Stabilization Network |
| NSA | Normalized Site Attenuation |
| Q.P. | Quasi-peak detection |
| SRT Lab | Spectrum Research & Testing Laboratory, Inc. |
| Vert. | Vertical direction |