



**Spectrum Research
& Testing Lab., Inc.**

No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan,
R.O.C.

TEST REPORT

Reference No.:A08081306
Report No.:FCCA08081306
FCC ID:TV2ERX3
Page:1 of 17
Date: Aug 14, 2008

Product Name: EASK.CAN RF
Model No.: 25048-01
Applicant: TriMark
500 Bailey Ave. P.O. BOX 350. New Hampton, IA 50659
Date of Receipt: Mar. 19,2008
Finished date of Test: Jun. 09, 2008
Applicable Standards: 47 CFR Part 15, Subpart B
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 :

Shunm Wang
(Shunm Wang)

Date: Aug. 14. 2008

Approved By :

JH
(Johnson Ho, Director)

Date: 8/14/2008

NVLAP

Lab Code: 200099-0
FMNG-059.10 REPORT



Table of Contents

| | | |
|-----|---|----|
| 1. | DOCUMENT POLICY AND TEST STATEMENT | 3 |
| 1.1 | DOCUMENT POLICY | 3 |
| 1.2 | TEST STATEMENT | 3 |
| 1.3 | EUT MODIFICATION | 3 |
| 2. | DESCRIPTION OF EUT AND TEST MODE | 4 |
| 2.1 | GENERAL DESCRIPTION OF EUT | 4 |
| 2.2 | DESCRIPTION OF EUT INTERNAL DEVICE | 4 |
| 2.3 | DESCRIPTION OF TEST MODE | 4 |
| 2.4 | DESCRIPTION OF SUPPORT UNIT | 5 |
| 3. | DESCRIPTION OF APPLIED STANDARDS | 5 |
| 4. | CONDUCTED EMISSION TEST | 6 |
| 4.1 | CONDUCTED EMISSION LIMIT | 6 |
| 4.2 | TEST EQUIPMENT | 6 |
| 4.3 | TEST SETUP | 7 |
| 4.4 | TEST PROCEDURE | 7 |
| 4.5 | EUT OPERATING CONDITION | 7 |
| 4.6 | SUMMARY OF CONDUCTED EMISSION TEST RESULT | 8 |
| 5. | RADIATED EMISSION TEST | 9 |
| 5.1 | RADIATED EMISSION LIMIT | 9 |
| 5.2 | TEST EQUIPMENT | 10 |
| 5.3 | TEST SET-UP | 11 |
| 5.4 | TEST PROCEDURE | 11 |
| 5.5 | EUT OPERATING CONDITION | 11 |
| 5.6 | MAXIMUM MODULATION PERCENTAGE | 11 |
| 5.7 | SUMMARY OF RADIATED EMISSION TEST RESULT | 12 |
| 6. | PHOTOS OF TESTING | 14 |
| 7. | TERMS OF ABBREVIATION | 17 |



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TEST REPORT

Reference No.:A08081306
Report No.:FCCA08081306
FCC ID:TV2ERX3
Page:3 of 17
Date: Aug 14, 2008

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.
- The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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.
- DC power supply was used during the test as a power source.
- The antennas were soldered on the PCB.

1.3 EUT MODIFICATION

- No modification in SRT Lab.

**Spectrum Research
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TEST REPORT

Reference No.:A08081306
Report No.:FCCA08081306
FCC ID:TV2ERX3
Page:4 of 17
Date: Aug 14, 2008

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

| | |
|------------------------------------|------------------|
| PRODUCT | EASK.CAN RF |
| MODEL NO. | 25048-01 |
| POWER SUPPLY | 12Vdc |
| Carrier Frequency | 433.92 MHz |
| Number of Channel | 1 |
| RF Output Power | 10 dBm = 0.01W |
| Modulation Type | ASK |
| I.F. & L.O. | L.O.: 433.92MHz |
| Mode of operation | Simplex |
| Bit Rate of Transmission | 4K |
| Antenna Type | Integral Antenna |
| Operating Temperature Range | 0 ~ 55 °C |

NOTE :

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

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

| DEVICE | BRAND/MAKER | MODEL # | FCC ID/DOC | REMARK |
|--------|-------------|---------|------------|--------|
| N/A | | | | |
| | | | | |

1. Frequency range to be measured.

Radiated emission is 30 MHz to 1 GHz.

2.3 DESCRIPTION OF TEST MODE

The EUT was operated in continually receiving mode.

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R.O.C.

TEST REPORT

Reference No.:A08081306
Report No.:FCCA08081306
FCC ID:TV2ERX3
Page:5 of 17
Date: Aug 14, 2008

2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003 and CISPR 22:2006.
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 | DC Power Supply | LEADER | LPS-161A/ 8110190 | N/A | 1.5m unshielded power cord |

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

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of ITE and according to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15 Subpart C, Class B

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



TEST REPORT

4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION 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:

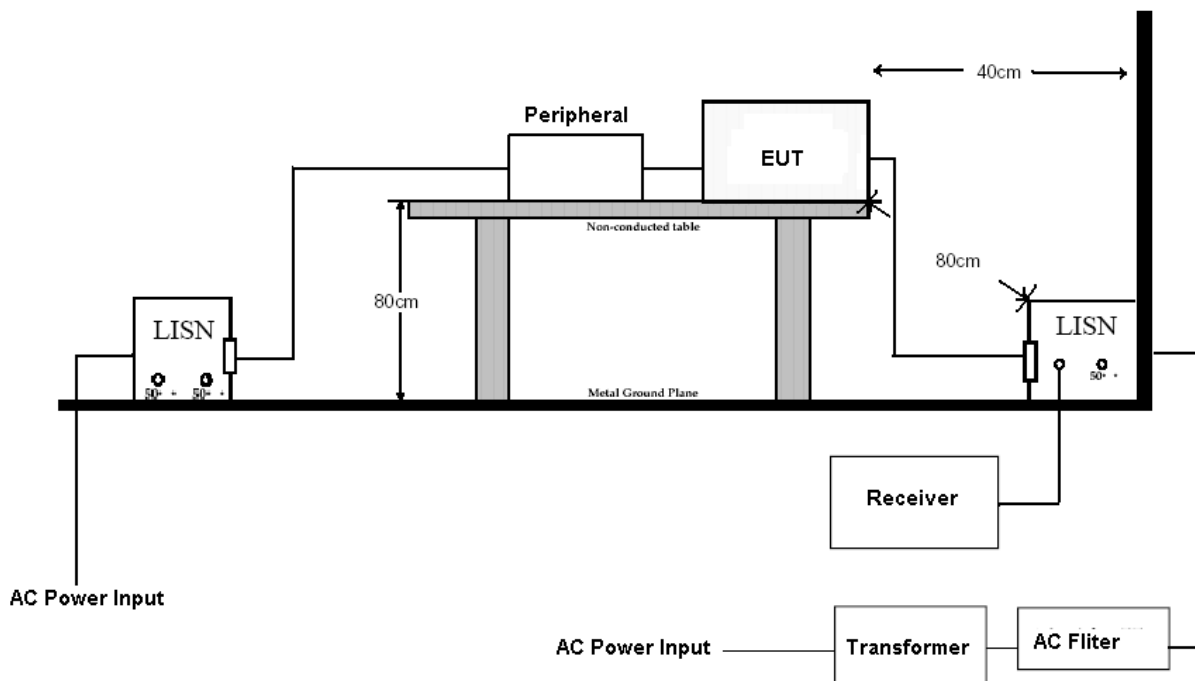
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2 TEST EQUIPMENT

| 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 | SEP. 2008 ETC |
| LISN | 50 μ H, 50 ohm | FCC | FCC-LISN-50-25-2 / 01017 | OCT. 2008 ETC |
| LISN | 50 μ H, 50 ohm | FCC | 9252-50-R24-BNC / 951315 | JUN. 2009 ETC |
| 50 OHM TERMINATOR | 50 ohm | HP | 11593A / #2 | OCT. 2008 ETC |
| COAXIAL CABLE | 5M | TIMES | EQM-0159 / #5-5m | AUG. 2008 SRT |
| Filter | 2 LINE, 30A | FIL.COIL | FC-943 / 771 | NCR |
| GROUND PLANE | 2.3M (H) x 2.4M (W) | SRT | N/A | NCR |
| GROUND PLANE | 2.4M (H) x 2.4M (W) | SRT | N/A | NCR |



4.3 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.

4.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003. 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.

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.

4.5 EUT OPERATING CONDITION

1. Setup the EUT and all peripheral devices .
2. Turn on the power of all equipment and EUT.
3. The EUT was operated in continually receiving mode.

| | | |
|--|----------------------|--|
|  Spectrum Research & Testing Lab., Inc. No. 101-10, Ling 8, Shan-Tong Li, Chung-Li City, Taoyuan, Taiwan, R.O.C. | <h1>TEST REPORT</h1> | Reference No.:A08081306 Report No.:FCCA08081306 FCC ID:TV2ERX3 Page:8 of 17 Date: Aug 14, 2008 |
|--|----------------------|--|

4.6 SUMMARY OF CONDUCTED EMISSION TEST RESULT

| | | | |
|--------------------|---------------|--------------|--------------|
| Temperature: | 21 °C | Humidity: | 60 %RH |
| Frequency Range: | 0.15 – 30 MHz | Tested Mode: | Rx |
| Receiver Detector: | Q.P. and AV. | Tested By: | Shunm Wang |
| | | Tested Date: | Jun 05, 2008 |

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. |
| 0.773 | 0.20 | 18.28 | 12.37 | 18.48 | 12.57 | 56.00 | 46.00 | -37.52 | -33.43 |
| 1.418 | 0.15 | 17.98 | 14.61 | 18.13 | 14.76 | 56.00 | 46.00 | -37.87 | -31.24 |
| 1.428 | 0.15 | 9.94 | 5.34 | 10.09 | 5.49 | 56.00 | 46.00 | -45.91 | -40.51 |
| 7.284 | 0.22 | 17.88 | 12.14 | 18.10 | 12.36 | 60.00 | 50.00 | -41.90 | -37.64 |
| 12.003 | 0.24 | 10.14 | 7.71 | 10.38 | 7.95 | 60.00 | 50.00 | -49.62 | -42.05 |
| 17.614 | 0.32 | 24.86 | 26.83 | 25.18 | 27.15 | 60.00 | 50.00 | -34.82 | -22.85 |

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. |
| 0.180 | 0.30 | 10.10 | 5.24 | 10.40 | 5.54 | 64.47 | 54.47 | -54.07 | -48.93 |
| 1.009 | 0.14 | 11.56 | 5.78 | 11.70 | 5.92 | 56.00 | 46.00 | -44.30 | -40.08 |
| 1.418 | 0.15 | 14.20 | 11.15 | 14.35 | 11.30 | 56.00 | 46.00 | -41.65 | -34.70 |
| 9.507 | 0.23 | 18.96 | 20.52 | 19.19 | 20.75 | 60.00 | 50.00 | -40.81 | -29.25 |
| 13.759 | 0.24 | 22.08 | 16.58 | 22.32 | 16.82 | 60.00 | 50.00 | -37.68 | -33.18 |
| 17.614 | 0.28 | 23.26 | 21.93 | 23.54 | 22.21 | 60.00 | 50.00 | -36.46 | -27.79 |

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 were very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



TEST REPORT

5. RADIATED EMISSION TEST

5.1 RADIATED EMISSION LIMIT

FCC part15C 15.209 limits of radiated emission measurement for frequency below 1000 MHz

| FREQUENCY (MHz) | DISTANCE (m) | FIELDS 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 |

FCC part15C 15.231(b) limit of fundamental and spurious emissions measurement.

| FREQUENCY (MHz) | Field Strength of Fundamental (microvolts/meter) | Field Strength of Spurious Emissions (microvolts/meter) |
|-----------------|--|---|
| 40.66-40.70 | 2250 | 225 |
| 70-130 | 1250 | 125 |
| 130-174 | 1250 to 3750 (NOTE 5) | 125 to 375 (NOTE 7) |
| 174-260 | 3750 | 375 (NOTE 7) |
| 260-470 | 3750 to 12500 (NOTE 6) | 375 to 1250 |
| Above 470 | 12500 | 1250 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
3. In the emission tables above, the tighter limit applies at the band edges.
4. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.
5. Limit = $20\log(56.81818(F) - 6136.3636)$; F : Fundamental Frequency (MHz)
6. Limit = $20\log(41.667 \times F - 7083.3333)$; F : Fundamental Frequency (MHz)
7. Limit = The Limit of Fundamental Frequency – 20dB
8. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

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TEST REPORT

Reference No.:A08081306
Report No.:FCCA08081306
FCC ID:TV2ERX3
Page:10 of 17
Date: Aug 14, 2008

5.2 TEST EQUIPMENT

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

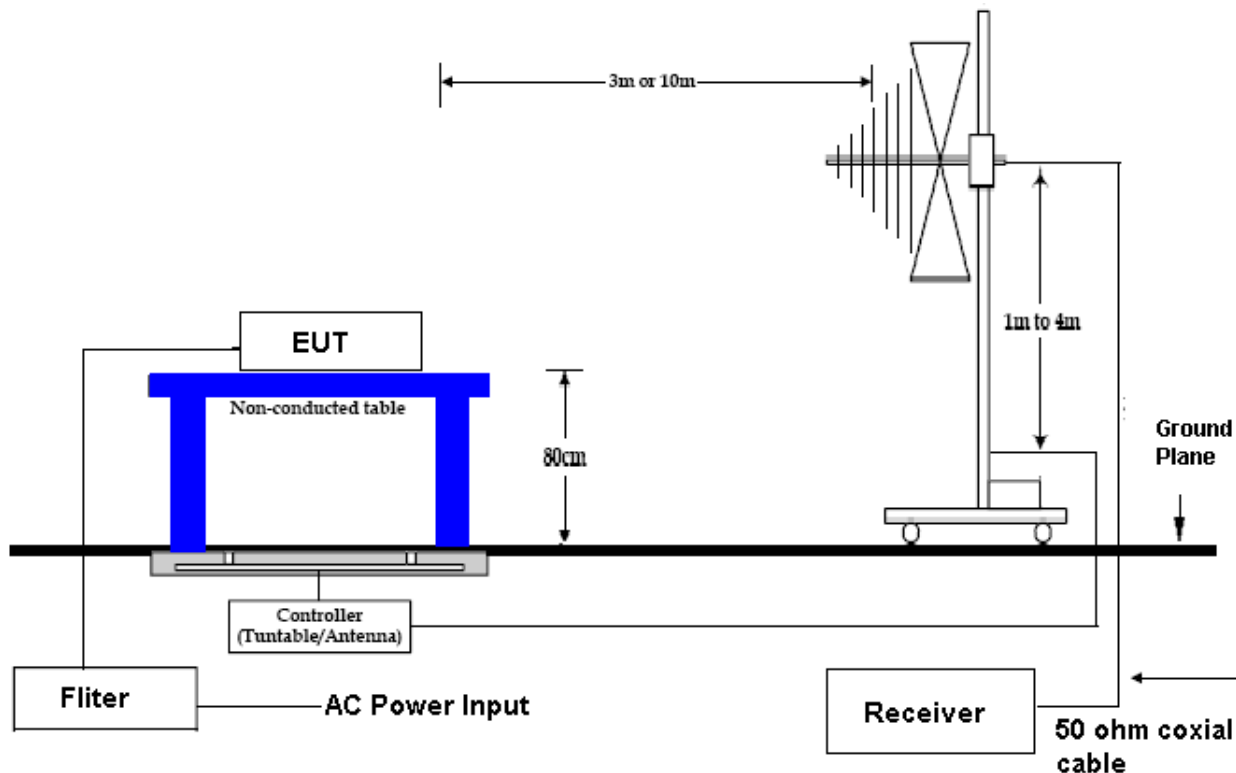
| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|--------------------------|-------------------------|--------------------|------------------------|-----------------------------------|
| EMI TEST RECEIVER | 9kHz TO 2.75 GHz | ROHDE & SCHWARZ | ESCS30 / 830245/012 | OCT. 2008 ETC |
| BI-LOG ANTENNA | 26 MHz TO 2 GHz | EMCO | 3142B / 0005-1534 | NOV. 2008 ETC |
| OATS | 3 – 10 M MEASUREMENT | SRT | SRT-1 | NOV. 2008 SRT |
| COAXIAL CABLE | 25M | TIMES | J400 / #25M | AUG. 2008 ETC |
| FILTER | 2 LINE, 30A | FIL.COIL | FC-943 / 869 | NCR |
| HORN ANTENNA | 1GHz TO 18GHz | EMCO | 3115/ 9602-4681 | NOV. 2008 ETC |

NOTE:

1. The Open Area Test Site (SRT-1) is registered by FCC with No. 90957 and VCCI with No. R-1081.
2. The Open Area Test Site (SRT-2) is registered by FCC with No. 98458 and VCCI with No. R-1168.



5.3 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.

5.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR 22:2006. 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.

5.5 EUT OPERATING CONDITION

Same as section 4.5 of this report.

5.6 MAXIMUM MODULATION PERCENTAGE

Duty Cycle = 50%



5.7 SUMMARY OF RADIATED EMISSION TEST RESULT

| | | | |
|--------------------|---------------|--------------------|---------------|
| Temperature: | 25 °C | Humidity: | 60 %RH |
| Frequency Range: | 30 – 1000 MHz | Measured Distance: | 3m |
| Receiver Detector: | Q.P | Tested Mode: | Rx |
| Tested By: | Shunm Wang | Tested Date: | Jun. 05, 2008 |

Antenna Polarization:Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB) | Reading Data (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|---------------------|---------------------|-------------------------|----------------|-------------|-------|-------|
| 112.1350 | 1.59 | 7.36 | 25.1 | 34.1 | 43.5 | -9.4 | 137 | 1.91 |
| 128.2640 | 1.45 | 9.24 | 22.4 | 33.1 | 43.5 | -10.4 | 204 | 1.53 |
| 144.6250 | 1.68 | 11.48 | 19.5 | 32.7 | 43.5 | -10.8 | 155 | 1.65 |
| 176.0360 | 1.70 | 9.08 | 24.6 | 35.4 | 43.5 | -8.1 | 143 | 1.74 |
| 424.1168 | 3.04 | 16.51 | 22.1 | 41.7 | 46.0 | -4.3 | 57 | 1.43 |
| 486.9960 | 3.35 | 17.32 | 18.7 | 39.4 | 46.0 | -6.6 | 233 | 1.37 |

Antenna Polarization:Vertical

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB) | Reading Data (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | AZ(°) | EL(m) |
|-----------------|-----------------|---------------------|---------------------|-------------------------|----------------|-------------|-------|-------|
| 31.5510 | 0.37 | 13.19 | 20.0 | 33.6 | 40.0 | -6.4 | 349 | 1 |
| 46.3390 | 0.97 | 7.22 | 24.5 | 32.7 | 40.0 | -7.3 | 15 | 1 |
| 50.9450 | 0.98 | 5.70 | 27.4 | 34.1 | 40.0 | -5.9 | 351 | 1.1 |
| 148.6180 | 1.51 | 10.66 | 23.3 | 35.5 | 43.5 | -8.0 | 213 | 1.2 |
| 210.0350 | 1.90 | 9.82 | 20.2 | 31.9 | 43.5 | -11.6 | 166 | 1.1 |
| 424.1167 | 3.04 | 16.51 | 20.6 | 40.2 | 46.0 | -5.8 | 61 | 1 |

NOTE :

1. Measurement uncertainty is +/-3.7dB.
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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Report No.:FCCA08081306
FCC ID:TV2ERX3
Page:13 of 17
Date: Aug 14, 2008

| | | | |
|--------------------|---------------|--------------------|-----------|
| Temperature: | 25 °C | Humidity: | 60 %RH |
| Frequency Range: | 1 – 5 GHz | Measured Distance: | 3m |
| Receiver Detector: | PK. or AV. | Tested Mode: | Rx |
| Tested By: | Shunm Wang | Tested Frequency: | 433.92MHz |
| Tested Date: | Jun. 05, 2008 | Modulation Type: | N/A |

Antenna Polarization : Horizontal

| Frequency (MHz) | Correct Factor (dB) | Ant. Factor (dB/m) | Reading Data (dB μ V) | | Emission Level (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | | AZ (°) | EL (m) |
|--------------------|---------------------------|--------------------------|---------------------------------|------|-------------------------------------|------|-------------------------|------|----------------|-------|-----------|-----------|
| | | | PK. | AV. | PK. | AV. | PK. | AV. | PK. | AV. | | |
| 1003.13 | -34.99 | 24.21 | * | * | * | * | 74.0 | 54.0 | * | * | * | * |
| 1085.49 | -34.68 | 24.39 | * | * | * | * | 74.0 | 54.0 | * | * | * | * |
| 1273.22 | -33.73 | 24.80 | 39.5 | * | 30.6 | * | 74.0 | 54.0 | -43.4 | * | 47 | 1.33 |
| 1283.53 | -33.75 | 24.82 | 46.7 | 39.7 | 37.8 | 30.8 | 74.0 | 54.0 | -36.2 | -23.2 | 103 | 1.46 |
| 1680.24 | -32.85 | 25.98 | 38.1 | * | 31.2 | * | 74.0 | 54.0 | -42.8 | * | 351 | 1.20 |
| 1910.43 | -32.61 | 26.86 | 44.5 | * | 38.7 | * | 74.0 | 54.0 | -35.3 | * | 110 | 1.15 |

Antenna Polarization : Vertical

| Frequency (MHz) | Correct Factor (dB) | Ant. Factor (dB/m) | Reading Data (dB μ V) | | Emission Level (dB μ V/m) | | Limit (dB μ V/m) | | Margin (dB) | | AZ (°) | EL (m) |
|--------------------|---------------------------|--------------------------|---------------------------------|-----|-------------------------------------|-----|-------------------------|------|----------------|-----|-----------|-----------|
| | | | PK. | AV. | PK. | AV. | PK. | AV. | PK. | AV. | | |
| 1003.13 | -34.99 | 24.21 | * | * | * | * | 74.0 | 54.0 | * | * | * | * |
| 1085.49 | -34.68 | 24.39 | * | * | * | * | 74.0 | 54.0 | * | * | * | * |
| 1168.13 | -34.33 | 24.57 | * | * | * | * | 74.0 | 54.0 | * | * | * | * |
| 1273.22 | -33.73 | 24.80 | 38.1 | * | 29.2 | * | 74.0 | 54.0 | -44.8 | * | 204 | 1.38 |
| 1696.15 | -32.91 | 26.04 | * | * | * | * | 74.0 | 54.0 | * | * | * | * |
| 1910.43 | -32.61 | 26.86 | 43.9 | * | 38.1 | * | 74.0 | 54.0 | -35.9 | * | 158 | 1.00 |

NOTE :

1. Measurement uncertainty is +/-3.7dB.
2. "**": The Peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Emission Level = Reading Value + Ant. Factor + Correct Factor (incl.:Cable Loss and Pre-Amplifier Gain)
4. The field strength of other emission frequencies were very low against the limit.
5. (F):The field strength of fundamental frequency.

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Reference No.:A08081306
Report No.:FCCA08081306
FCC ID:TV2ERX3
Page:17 of 17
Date: Aug 14, 2008

7. TERMS OF ABBREVIATION

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