



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Tire Pressure Monitoring System

Model : TX011

Trade Name : MOBILETRON

Issued for

MOBILETRON ELECTRONICS CO., LTD.

**39, Sec. 3, Chung-Ching Rd., Ta-Ya,
Taichung Hsien, Taiwan 428**

Issued by

**Compliance Certification Services Inc.
Hsinchu Lab.**

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1. TEST REPORT CERTIFICATION

Applicant : MOBILETRON ELECTRONICS CO., LTD.

Address : 39, Sec. 3, Chung-Ching Rd., Ta-Ya,
Taichung Hsien, Taiwan 428

Equipment Under Test : Tire Pressure Monitoring System

Model : TX011

Trade Name : MOBILETRON

Tested Date : November 02 ~ 14, 2007

| APPLICABLE STANDARD | |
|---|-------------------------|
| STANDARD | TEST RESULT |
| FCC Part 15 Subpart C:2006 AND ANSI C63.4:2003 | No non-compliance noted |

Approved by:

S. B. Lu
Manager of Hsinchu Laboratory
Compliance Certification Services Inc.

Reviewed by:

Jerry Chang
Test Engineer of Hsinchu Laboratory
Compliance Certification Services Inc.



WE HEREBY CERTIFY THAT: The measurements shown in the attachment were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable. We assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.



2. EUT DESCRIPTION

2.1 DESCRIPTION OF EUT & POWER

| | |
|-----------------------------------|-----------------------------------|
| Product Name | Tire Pressure Monitoring System |
| Model Number | TX011 |
| Trade Name | MOBILETRON |
| Channel Number | 1 |
| Frequency Range | 433.92 MHz |
| Modulation Technique | FSK |
| Transmitter Classification | Mobile |
| Antenna Type | PCB Antenna, Antenna Gain : 0 dBi |
| Power Source | 3~3.6VDC (From Power Battery) |

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for FCC ID: ULZ-TX011 filing to comply with Section 15.207,15.209 and 15.231 of the FCC Part 15, Subpart C Rules.
3. For more details, please refer to the User's manual of the EUT.

3. DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

There are one channel have been tested as following :

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1 | 433.92 |

Note : The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X, Y axis). The worst emission was found in lie-down position(Z axis) and the worst case was recorded.



4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CRF 47 2.1046, 2046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.231.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at Rm.258, Bldg.17, NO.195 , Sec. 4, Chung Hsing Rd., Chu-Tung Chen. Hsin-Chu, Taiwan 310 R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200118-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: 90585 and 90584).



5.4 TABLE OF ACCREDITATIONS AND LISTINGS

| Country | Agency | Scope of Accreditation | Logo |
|---------|-----------------|---|---|
| USA | NVLAP | EN 55014-1, AS/NZS 1044, CNS 13783-1, IEC/CISPR 14-1, IEC/CISPR 22, EN 55022, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, AS/NZS CISPR 22, AS/NZS 3548, IEC 61000-4-2/3/4/5/6/8/11 |  200118-0 |
| USA | FCC | 3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements |  90585, 90584 |
| Japan | VCCI | 3/10 meter Open Area Test Sites to perform conducted/radiated measurements |  R-1229/1189 C-1250/1294 |
| Taiwan | TAF | FCC Method-47 CFR Part 15 Subpart C,D,E CISPR 11, FCC METHOD-47 CFR Part 18, EN 55011, CNS 13803, CISPR 13, CNS 13439, FCC Method-47 CFR Part 15 Subpart B, CISPR 14-1, EN 55014-1, CNS 13783-1, EN 55015, CNS 14115, CISPR 22, EN 55022, VCCI CNS 13438, EN 61000-4-2/3/4/5/6/8/11 |  Testing Laboratory 0240 |
| Taiwan | BSMI | CNS 13803, CNS 13438, CNS 13439, CNS 13783-1, CNS 14115 |  SL2-IS-E-0002 SL2-IN-E-0002 SL2-A1-E-0002 SL2-R1-E-0002 SL2-R2-E-0002 SL2-L1-E-0002 |
| Canada | Industry Canada | RSS212, Issue 1 |  |

* No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.



6. CALIBRATION AND UNCERTAINTY

6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

6.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|-----------------------------------|-------------|
| Radiated Emission, 30 to 1000 MHz | +/- 3.2 dB |
| Radiated Emission, 1 to 26.5 GHz | +/- 3.2 dB |
| Power Line Conducted Emission | +/- 2.1 dB |

Uncertainty figures are valid to a confidence level of 95%



7. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

N/A

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

1. Setup all equipments like the setup diagram.
2. EUT is in operation.
3. All of the functions are under run.
4. Start test.



8. FCC PART 15.231 REQUIREMENTS

8.1 20DB BANDWIDTH

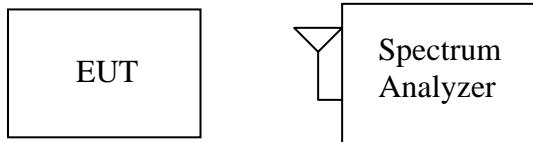
LIMIT

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

TEST EQUIPMENTS

| Description & Manufacturer | Model No. | Serial No. | Date of Calibration |
|-----------------------------------|-----------|-------------|---------------------|
| ROHDE & SCHWARZ SPECTRUM ANALYZER | FSEK30 | 835253/002 | October 25, 2007 |
| AGILENT SPECTRUM ANALYZER | E4446A | MY433601.32 | June 06, 2007 |

Test Configuration



TEST PROCEDURE

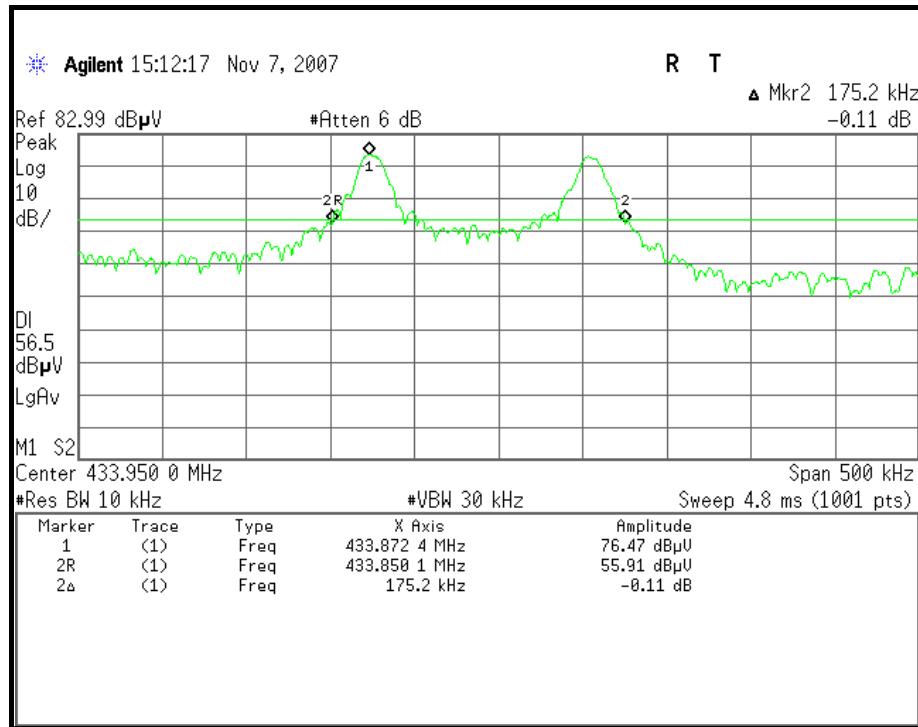
The spectrum analyzer center frequency is set to the transmitter frequency. The RBW is set to 10 kHz and VBW is set 30kHz.

TEST RESULTS

No non-compliance noted

| Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (KHz) | Result |
|-----------------|----------------------|-------------|--------|
| 433.92 | 175.2 | 1084.8 | PASS |

Test Plot





8.2 LIMIT OF TRANSMISSION TIME

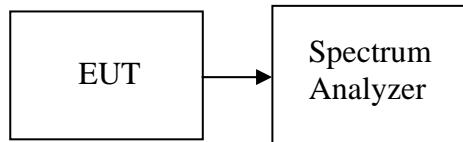
LIMIT

According to 15.231(e), in addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

TEST EQUIPMENTS

| Description & Manufacturer | Model No. | Serial No. | Date of Calibration |
|-----------------------------------|-----------|-------------|---------------------|
| ROHDE & SCHWARZ SPECTRUM ANALYZER | FSEK30 | 835253/002 | October 25, 2007 |
| AGILENT SPECTRUM ANALYZER | E4446A | MY433601.32 | June 06, 2007 |

Test Configuration



TEST PROCEDURE

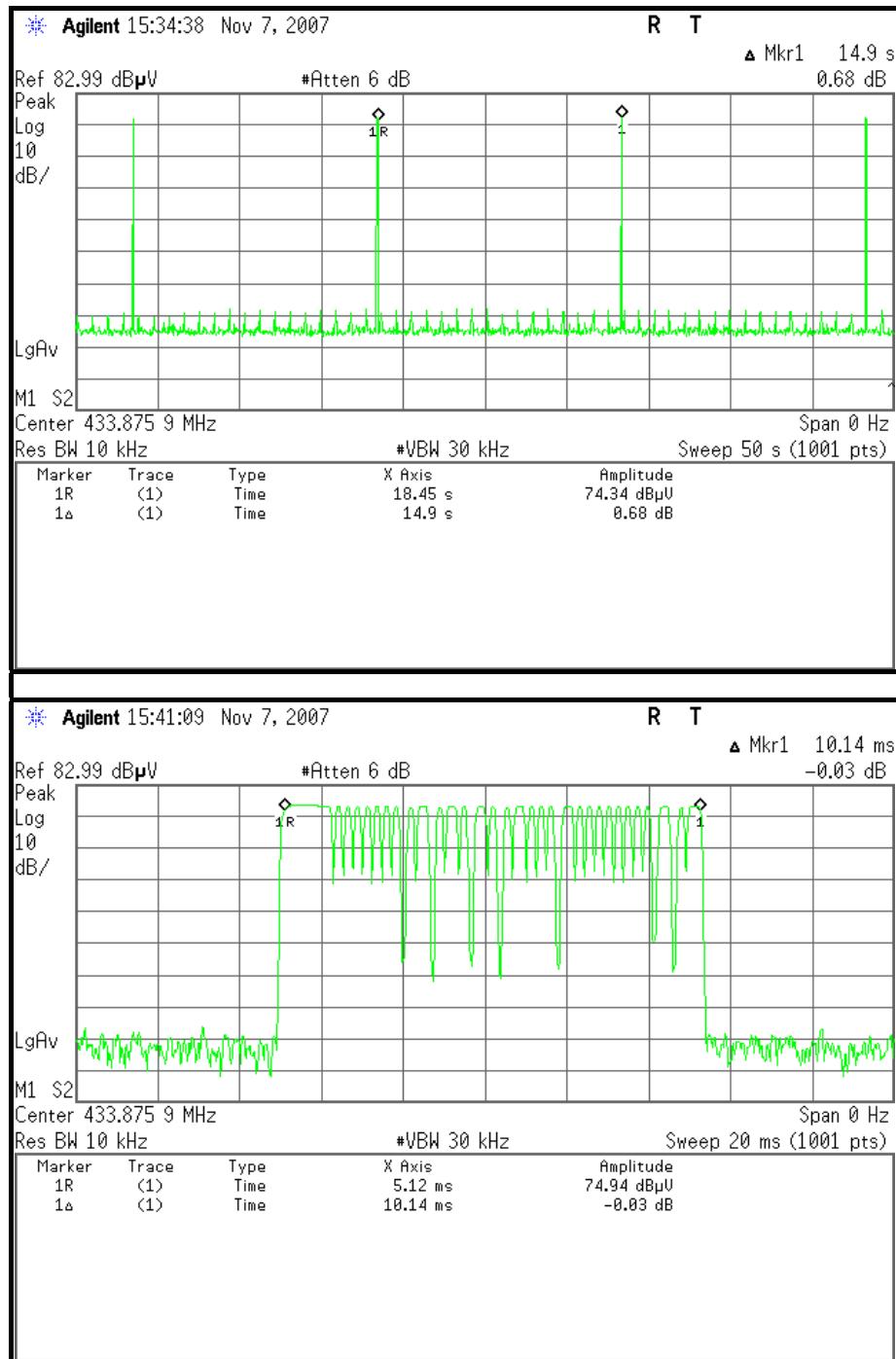
The transmitter output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the transmitter frequency. The RBW and VBW are set to 100KHz.

TEST RESULTS

No non-compliance noted

| Frequency (MHz) | Transmission Time (s) | Maximum Transmission Limit (s) | Silent Duration (s) | Minimum Silent Duration Limit (s) | Silent Period Versus Transmission Time Ratio | Minimum Ratio Limit | Result |
|-----------------|-----------------------|--------------------------------|---------------------|-----------------------------------|--|---------------------|--------|
| 433.92 | 0.01014 | 1 | 14.9 | 10 | 1469.4 | 30 | PASS |

Test Plot





8.3 DUTY CYCLE CORRECTION FACTOR

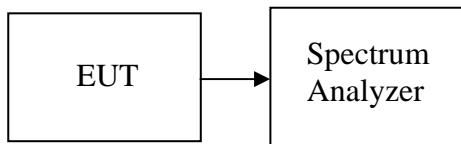
LIMIT

Nil (No dedicated limit specified in the Rules)

TEST EQUIPMENTS

| Description & Manufacturer | Model No. | Serial No. | Date of Calibration |
|-----------------------------------|-----------|-------------|---------------------|
| ROHDE & SCHWARZ SPECTRUM ANALYZER | FSEK30 | 835253/002 | October 25, 2007 |
| AGILENT SPECTRUM ANALYZER | E4446A | MY433601.32 | June 06, 2007 |

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 0Hz, Adjust Sweep = 50s.
5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data

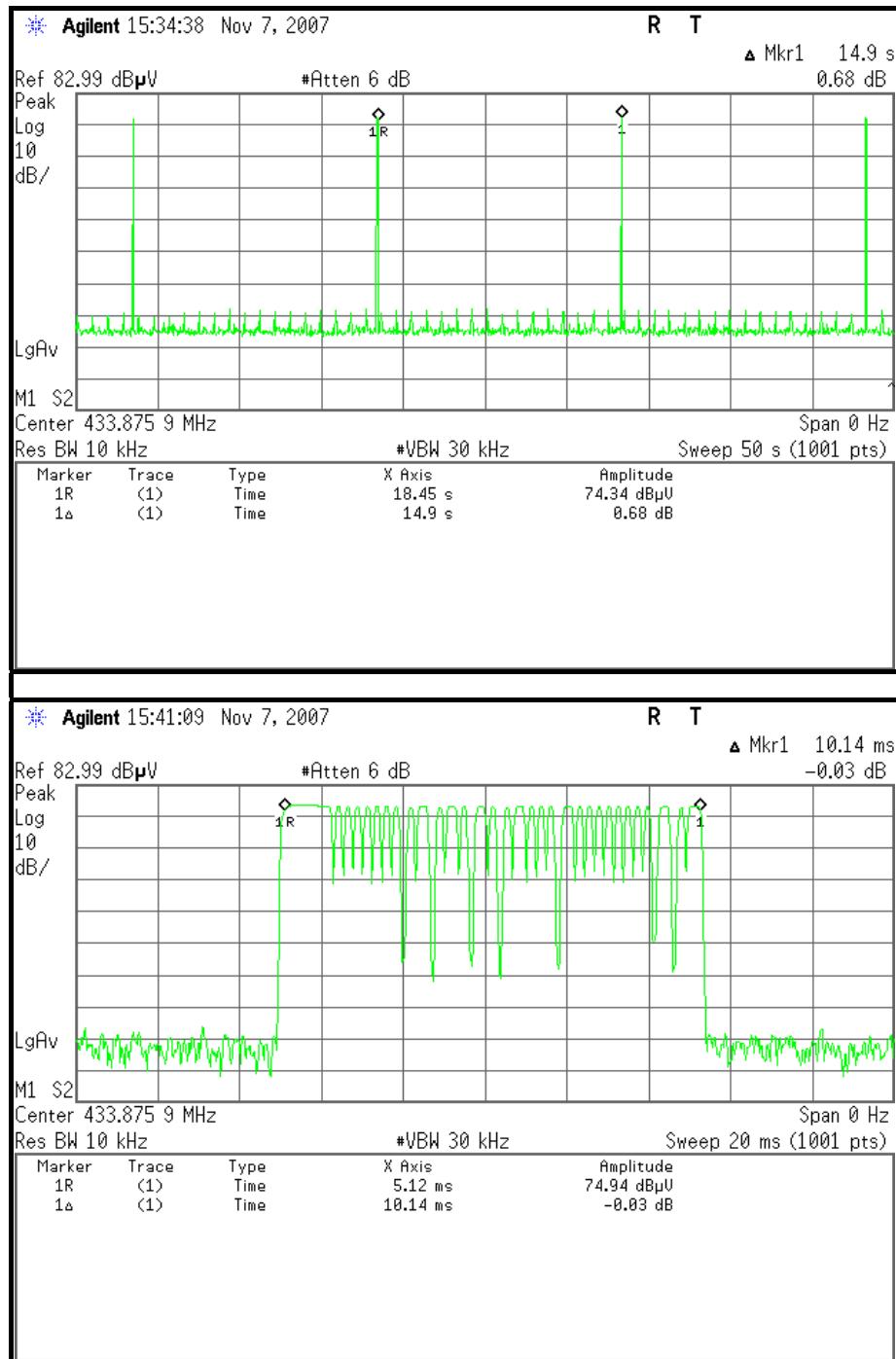
T_p = 14.9(s)

T_{on} = 10.14 (ms)

Duty Cycle Correction Factor = $20 * \log (T_{on} / T_p)$

$$= 20 * \log (10.14 / 100) = -19.88$$

Test Plot



8.4 RADIATED EMISSIONS

LIMIT

1. According to §15.231(e), intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) and may be employed for any type of operation, including operation prohibited in paragraph (a), provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this Section, except the field strength table in paragraph (b) is replaced by the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (microvolts/meter) | Field Strength of Spurious Emissions (microvolts/meter) |
|-----------------------------|--|---|
| 40.66 – 40.70 | 1000 | 100 |
| 70 – 130 | 500 | 50 |
| 130 – 174 | 500 to 1500 ** | 50 to 150 ** |
| 174 – 260 | 1500 | 150 |
| 260 – 470 | 1500 to 5000 ** | 150 to 500 ** |
| Above 470 | 5000 | 500 |

Remark: ** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = $22.72727(F) - 2454.545$; for the band 260-470 MHz, uV/m at 3 meters = $16.6667(F) - 2833.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (mV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 30-88 | 100* | 3 |
| 88-216 | 150* | 3 |
| 216-960 | 200* | 3 |
| Above 960 | 500 | 3 |

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.



3. In the above emission table, the tighter limit applies at the band edges.

| Frequency (MHz) | Field Strength (μ V/m at 3-meter) | Field Strength (dB μ V/m at 3-meter) |
|--------------------|---|---|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

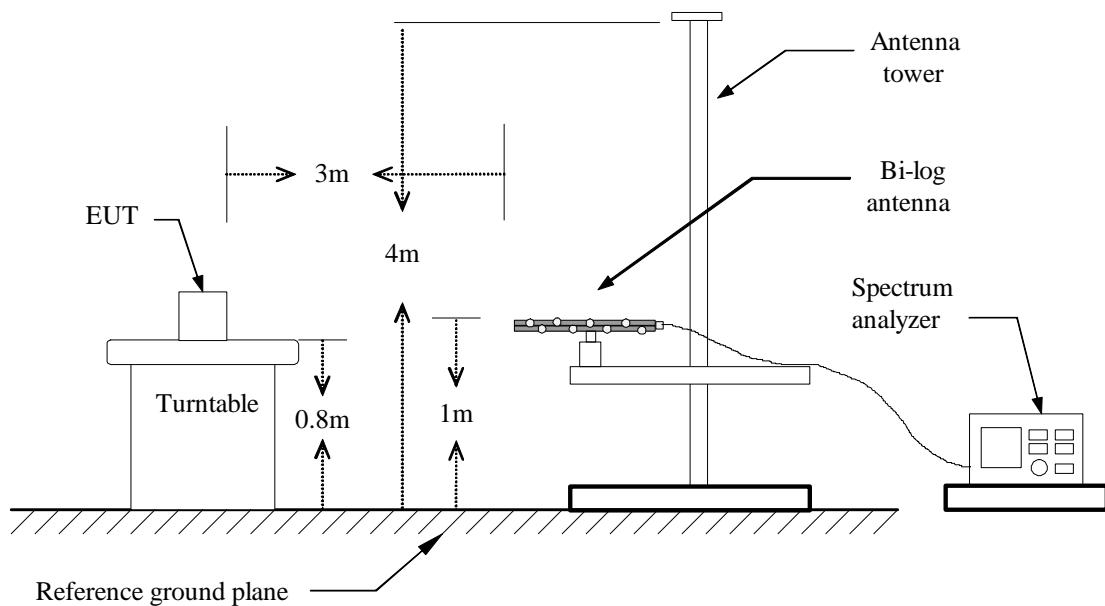
TEST EQUIPMENTS

The following test equipment is utilized in making the measurements contained in this report.

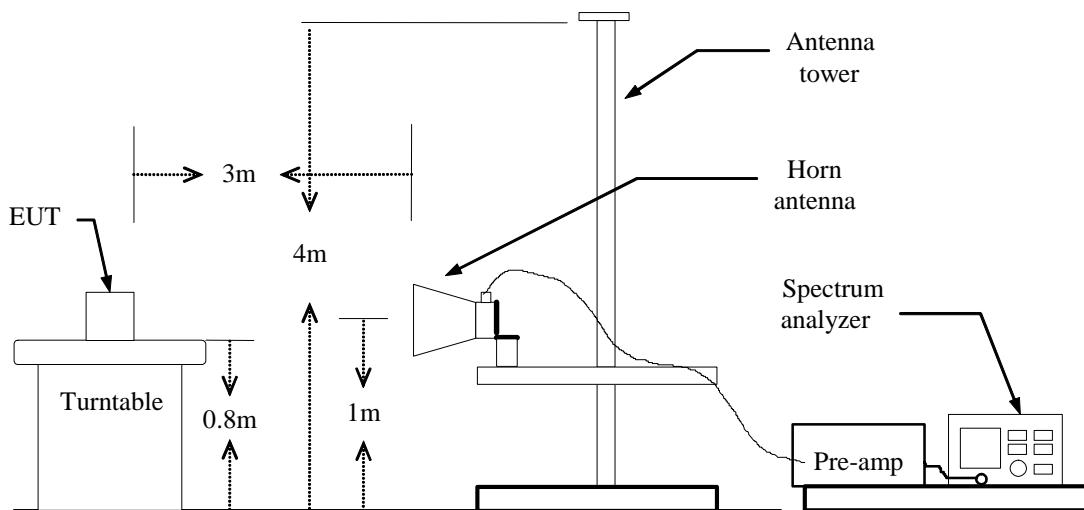
| Manufacturer or Type | Model No. | Serial No. | Date of Calibration | Calibration Period | Remark |
|-------------------------------|-------------|-------------|---------------------|--------------------|--------|
| CHASE BILOG ANTENNA | CBL6112B | 2817 | October 18, 2007 | 1 Year | FINAL |
| R/S SPECTRUM ANALYZER | FSEK30 | 835253/002 | October 25, 2007 | 1 Year | FINAL |
| AGILENT SPECTRUM ANALYZER | E4446A | MY433601.32 | June 06, 2007 | 1 Year | FINAL |
| R/S EMI TEST RECEIVER | ESCS30 | 835418/008 | October 16, 2007 | 1 Year | FINAL |
| OPEN SITE | ----- | No.2 | May 07, 2007 | 1 Year | FINAL |
| MIYAZAKI N TYPE COAXIAL CABLE | 8D-FB | 02 | May 16, 2007 | 1 Year | FINAL |
| Horn Antenna | AH-118 | 10089 | October 18, 2007 | 1 Year | FINAL |
| Horn Antenna | AH-840 | 03077 | February 25, 2007 | 1 Year | FINAL |
| Agilent Pre-amplifier | 8449B | 3008A01471 | December 25, 2006 | 1 Year | FINAL |
| HP Amplifier | 8447D | 1937A02748 | December 25, 2006 | 1 Year | FINAL |
| HP High pass filter | 84300/80038 | 002 | CAL. ON USE | 1 Year | FINAL |
| HP High pass filter | 84300/80039 | 003 | CAL. ON USE | 1 Year | FINAL |
| Loop Antenna ETS-LINDGREN | 6502 | 2356 | June 15, 2007 | 1 Year | FINAL |

TEST SETUP

Below 1 GHz



Above 1 GHz





TEST PROCEDURE

The EUT is placed on a turntable, which is 0.8m above ground plane.

1. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

6. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

No non-compliance noted



8.4.1 TRANSMITTER RADIATED EMISSION BELOW 1 GHz

| | | | | | | | |
|---------------------|---------------------------------|--|--|----------------------------|-------------|--|--|
| Product Name | Tire Pressure Monitoring System | | | Test Date | 2007/11/07 | | |
| Model Name | TX011 | | | Test By | Jerry Chang | | |
| Test Mode | TX | | | TEMP & Humidity | 23°C, 51% | | |

| Horizontal polarity | | | | | | | | | | |
|---------------------|--------------------------|---------------------------|--------------------------------|-----------------------|---------------------------|----------------------------|-----------------------------|---------------------------|-------------------------|-----------------------|
| Freq. (MHz) | Reading- PK (dBuV) | Reading- AVG (dBuV) | Correction Factor (dB/m) | Duty Factor (dB/m) | Result- PK (dBuV/m) | Result- AVG (dBuV/m) | Limit- PK/QP (dBuV/m) | Limit- AVG (dBuV/m) | Margin PK/QP (dB) | Margin AVG (dB) |
| 433.88 | 88.32 | ---- | -10.77 | -19.88 | 77.55 | 57.67 | 92.87 | 72.87 | -15.32 | -15.20 |
| 868.08 | 30.47 | ---- | -3.43 | -19.88 | 27.04 | 7.16 | 74.00 | 54.00 | -46.96 | -46.84 |

| Vertical polarity | | | | | | | | | | |
|-------------------|--------------------------|---------------------------|--------------------------------|-----------------------|---------------------------|----------------------------|-----------------------------|---------------------------|-------------------------|-----------------------|
| Freq. (MHz) | Reading- PK (dBuV) | Reading- AVG (dBuV) | Correction Factor (dB/m) | Duty Factor (dB/m) | Result- PK (dBuV/m) | Result- AVG (dBuV/m) | Limit- PK/QP (dBuV/m) | Limit- AVG (dBuV/m) | Margin PK/QP (dB) | Margin AVG (dB) |
| 433.88 | 98.62 | ---- | -10.77 | -19.88 | 87.85 | 65.97 | 92.87 | 72.87 | -5.02 | -6.90 |
| 868.08 | 48.06 | ---- | -3.43 | -19.88 | 44.63 | 24.75 | 74.00 | 54.00 | -29.37 | -29.25 |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – limit (dBuV/m).
7. Result-AVG = Result-PK +Duty factor.



8.4.2 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

| | | | | | | | |
|---------------------|---------------------------------|--|--|----------------------------|-------------|--|--|
| Product Name | Tire Pressure Monitoring System | | | Test Date | 2007/11/07 | | |
| Model Name | TX011 | | | Test By | Jerry Chang | | |
| Test Mode | TX | | | TEMP & Humidity | 23°C, 51% | | |

| Horizontal polarity | | | | | | | | | | |
|---------------------|--------------------------|---------------------------|--------------------------------|-----------------------|---------------------------|----------------------------|-----------------------------|---------------------------|-------------------------|-----------------------|
| Freq. (MHz) | Reading- PK (dBuV) | Reading- AVG (dBuV) | Correction Factor (dB/m) | Duty Factor (dB/m) | Result- PK (dBuV/m) | Result- AVG (dBuV/m) | Limit- PK/QP (dBuV/m) | Limit- AVG (dBuV/m) | Margin PK/QP (dB) | Margin AVG (dB) |
| N/A | | | | | | | | | | |

| Vertical polarity | | | | | | | | | | |
|-------------------|--------------------------|---------------------------|--------------------------------|-----------------------|---------------------------|----------------------------|-----------------------------|---------------------------|-------------------------|-----------------------|
| Freq. (MHz) | Reading- PK (dBuV) | Reading- AVG (dBuV) | Correction Factor (dB/m) | Duty Factor (dB/m) | Result- PK (dBuV/m) | Result- AVG (dBuV/m) | Limit- PK/QP (dBuV/m) | Limit- AVG (dBuV/m) | Margin PK/QP (dB) | Margin AVG (dB) |
| N/A | | | | | | | | | | |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – limit (dBuV/m).
7. Result-AVG = Result-PK +Duty factor.



8.5 POWERLINE CONDUCTED EMISSIONS

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

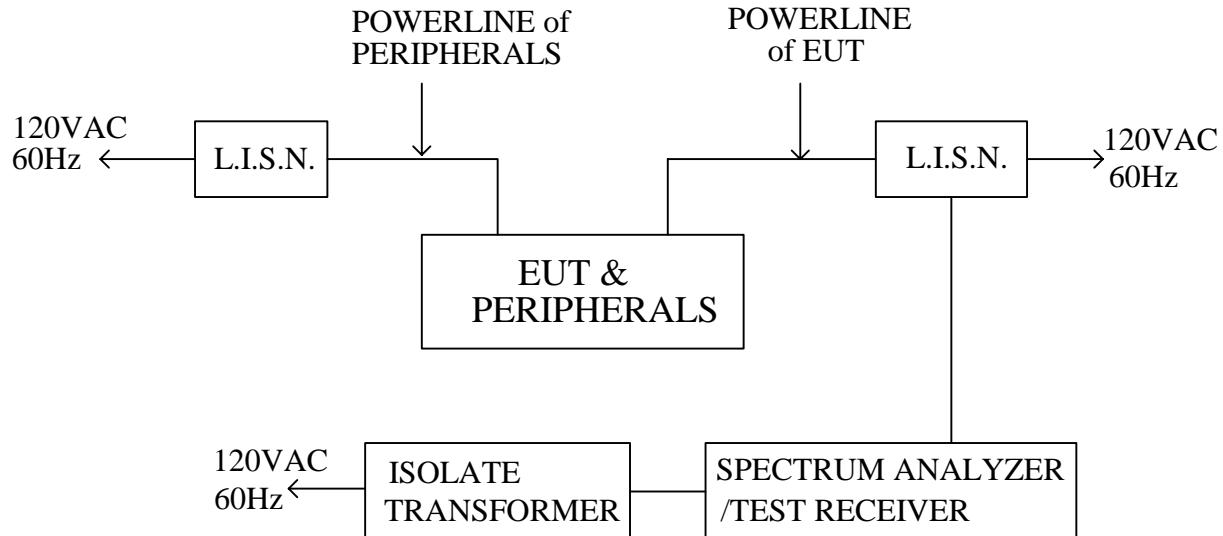
| Frequency of Emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|----------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56 | 56 to 46 |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

TEST EQUIPMENTS

The following test equipment is used during the conducted powerline tests :

| Manufacturer or Type | Model No. | Serial No. | Date of Calibration | Calibration Period | Remark |
|-----------------------------|-----------------|------------|---------------------|--------------------|--------|
| SCHWARZBECK L.I.S.N | NSLK 8127 | 8127-465 | July 09, 2007 | 1 Year | FINAL |
| CHASE L.I.S.N | NNLK 8129 | 8129118 | January 26, 2007 | 1 Year | FINAL |
| R & S TEST RECEIVER | ESHS30 | 838550/003 | January 31, 2007 | 1 Year | FINAL |
| KEENE SHIELDED ROOM | 5983 | No.1 | N/A | N/A | FINAL |
| R & S PULSE LIMIT | ESH3-Z2 | 10117 | September 17, 2007 | 1 Year | FINAL |
| BELDEN N TYPE COAXIAL CABLE | 8268 M17/164 | 003 | September 14, 2007 | 1 Year | FINAL |

TEST SETUP



TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.

TEST RESULTS

No non-compliance noted

Since this EUT is powered by DC Source, this test item is not applicable.



9. ANTENNA REQUIREMENT

9.1 STANDARD APPLICABLE

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

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

9.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is PCB antenna. The maximum Gain of the antenna is 0 dBi.