

FCC 47 CFR PART 15 SUBPART C

Product Type : MPR-1910 RFID Reader Module

Applicant : Applied Wireless Identifications Group Inc.

Address : 18300 Sutter Blvd, Morgan Hill, CA 95037 USA

Trade Name : AWID

Model Number : MPR-1910

Test Specification : FCC 47 CFR PART 15 SUBPART C: Oct., 2010
ANSI C63.4-2009

Application Purpose : Class II Permissive Change

Receive Date : Aug. 24, 2012

Issue Date : Sep. 05, 2012

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330

Note: This report shall not be reproduced except in full, without the written approval of A Test Lab Techno Corp. This document may be altered or revised by A Test Lab Techno Corp. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, or any government agencies. The test results in the report only apply to the tested sample.



Revision History

Rev.	Issue Date	Revisions	Revised By
00	Sep. 05, 2012	Initial Issue	

Verification of Compliance

Issued Date: 2012/09/05

Product Type : MPR-1910 RFID Reader Module
Applicant : Applied Wireless Identifications Group Inc.
Address : 18300 Sutter Blvd, Morgan Hill, CA 95037 USA
Trade Name : AWID
Model Number : MPR-1910
FCC ID : OGSMMPR1910
EUT Rated Voltage : DC 3.3 V
Test Voltage : 120 Vac / 60 Hz
Applicable : FCC 47 CFR PART 15 SUBPART C: Oct., 2010
Standard : ANSI C63.4-2009
Application : Class II Permissive Change
Purpose :
Test Result : Complied
Performing Lab. : A Test Lab Techno Corp.

No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.

Tel : +886-3-2710188 / Fax : +886-3-2710190

Taiwan Accreditation Foundation accreditation number:
1330

<http://www.atl-lab.com.tw/e-index.htm>

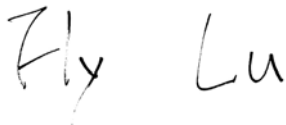


The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.225. The test results of this report relate only to the tested sample identified in this report.

Approved By : 

(Manager)

(Murphy Wang)

Reviewed By : 

(Testing Engineer)

(Fly Lu)

TABLE OF CONTENTS

1	General Information.....	5
2	EUT Description.....	6
3	Test Methodology	7
	3.1. Mode of Operation	7
	3.2. EUT Exercise Software.....	7
	3.3. Configuration of Test System Details	8
	3.4. Test Site Environment.....	8
4	Radiated Emissions Measurement.....	9
	4.1. Limit	9
	4.2. Test Instruments	9
	4.3. Setup	10
	4.4. Test Procedure.....	11
	4.5. Test Result.....	13

1 General Information

1.1 Summary of Test Result

Standard		Item	Result	Remark
15.247	RSS-GEN			
15.207	7.2.2	Conducted Emission Voltage	N/A	Note 2
-----	6	Receiver Radiated Emissions	N/A	Note 2
Standard		Item	Result	Remark
15.247	RSS-210			
15.205	A8.5	Restricted Band of Operation	N/A	Note 2
15.247(d)	A8.5	Conducted Spurious Emissions	N/A	Note 2
15.209 ;15.247(d)	A8.5	Radiated Spurious Emissions	PASS	Note 1
15.247(b)(1)	A8.4 (2)	Max. Output Power	N/A	Note 2
15.247(a)(1)	A8.1 (1)	20dB RF Bandwidth	N/A	Note 2
15.247(a)(1)(iii)	A8.1 (2)	Carrier Frequency Separation Requirements	N/A	Note 2
15.247(a)(1)(iii)	A8.1 (4)	Number of Hopping Channels	N/A	Note 2
15.247(a)(1)(iii)	A8.1 (4)	Time of Occupancy (Dwell Time)	N/A	Note 2
15.247(c)	A8.4	Antenna Gain < 6 dBi	N/A	Note 2
15.247(e)	A8.3	Power Spectral Density	N/A	Note 2
15.247(f)	A8.3	Hybrid System Requirement	N/A	Note 2
15.203	-	Antenna Requirement	N/A	Note 2

Note 1: The Class II permissive change is add new Antenna source, the engineer evaluate only need to verify radiated emission test.

Note 2 : The test item no influenced is not necessary performed.

Note 3 : The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2 Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 2.24 dB.

Radiated Emission

The measurement uncertainty is evaluated as ± 3.072 dB.

2 EUT Description

Applicant	:	Applied Wireless Identifications Group Inc.
Applicant Address	:	18300 Sutter Blvd, Morgan Hill, CA 95037 USA
Manufacturer	:	EMMT SYSTEMS CORPORATION
Manufacturer Address	:	TAICHUNG EXPORT PROCESSING ZONE P.O BOX 1-45, TAN-TZU TAICHUNG. NO.16-1 NAN-ER ROAD, TAN-TZU, TAICHUNG HSIEN, TAIWAN R.O.C
Product	:	MPR-1910 RFID Reader Module
Trade Name	:	AWID
Model Number	:	MPR-1910
FCC ID	:	OGSMMPR1910
Frequency Range	:	902 MHz to 908 MHz
Modulation Type	:	ASK
Number of Channels	:	125 Channel
Antenna Type	:	Balanced Terminated Transmission Line

I/O Port Description :

I/O Port Types	Q'TY	Test Description
1). Signal Port	1	Connected to Notebook
2). Antenna Port	2	Connected to Terminal/RFID Antenna

3 Test Methodology

3.1. Mode of Operation

The following test mode(s) were scanned during the preliminary test :

Pre-Test Mode
Mode 1: Normal Operation Mode
Mode 2: ISO link Mode

After the preliminary scan, the following test mode was found to produce the highest emission level :

Final Test Mode
Mode 1: Normal Operation Mode
Mode 2: ISO link Mode

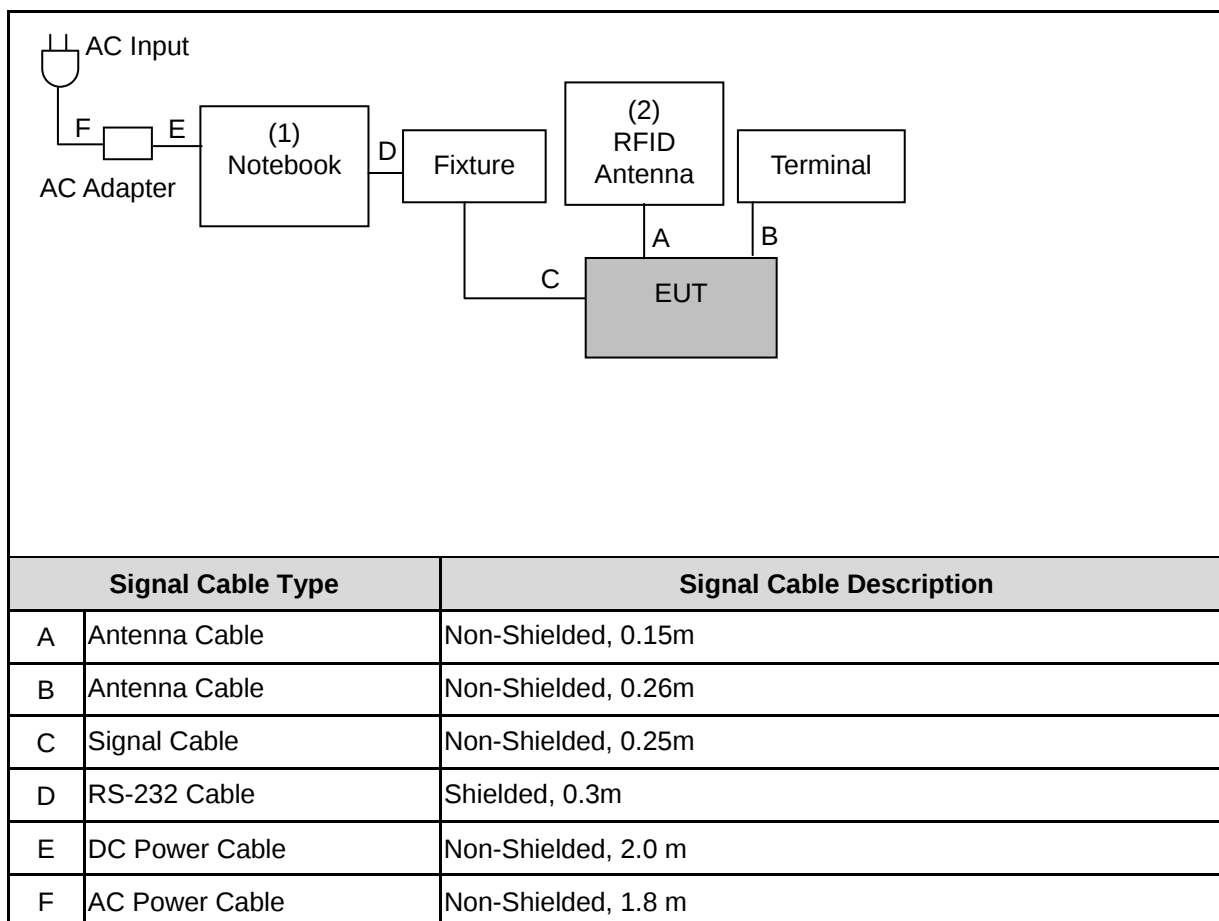
Then, the above highest fundamental level mode of the configuration of the EUT and antenna was chosen for all final test items.

ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation.

3.2. EUT Exercise Software

1.	Setup the EUT as shown on 3.3.
2.	Turn on the power of all equipment.
3.	The EUT will start to operate function.

3.3. Configuration of Test System Details



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	D531	CN-OXM006-48643 -87A-3398	Non-Shielded, 2.0m
(2)	RFID Antenna (Max gain:0dBi)	Printronix	UHF RFID Coupler	N/A	N/A

3.4. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 Radiated Emissions Measurement

4.1. Limit

According to §15.209(a), 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 ($\mu\text{V/m}$ at meter)	Measurement Distance (meters)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** 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.

4.2. Test Instruments

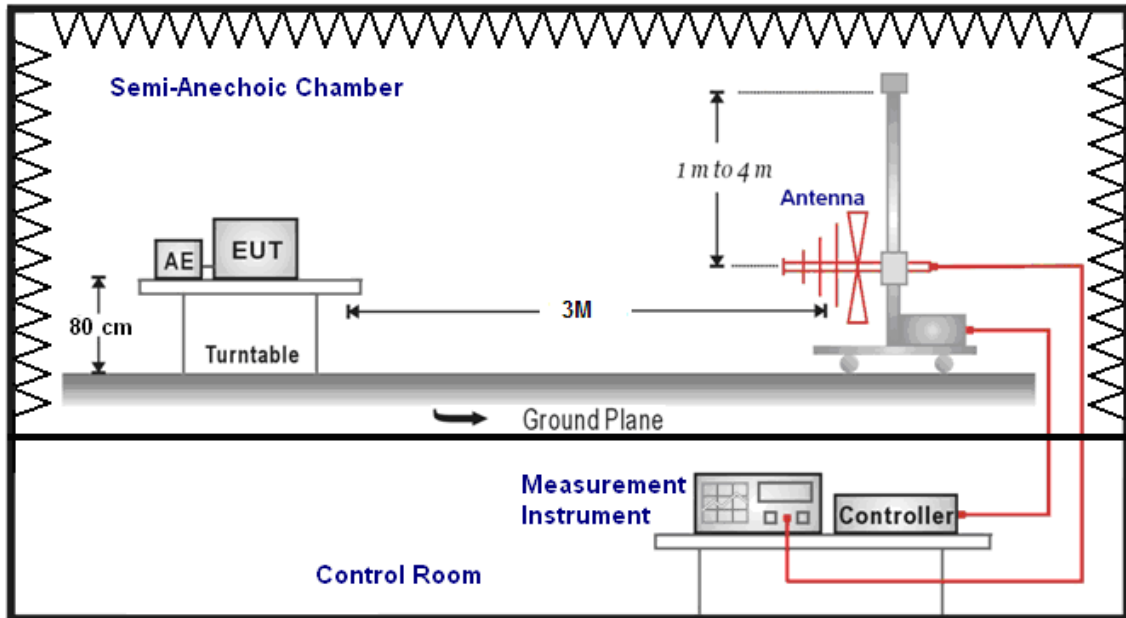
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/16/2012	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/16/2012	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/22/2012	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/22/2012	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	06/29/2012	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/15/2012	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/21/2012	(1)
Test Site	ATL	TE01	888001	12/20/2011	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

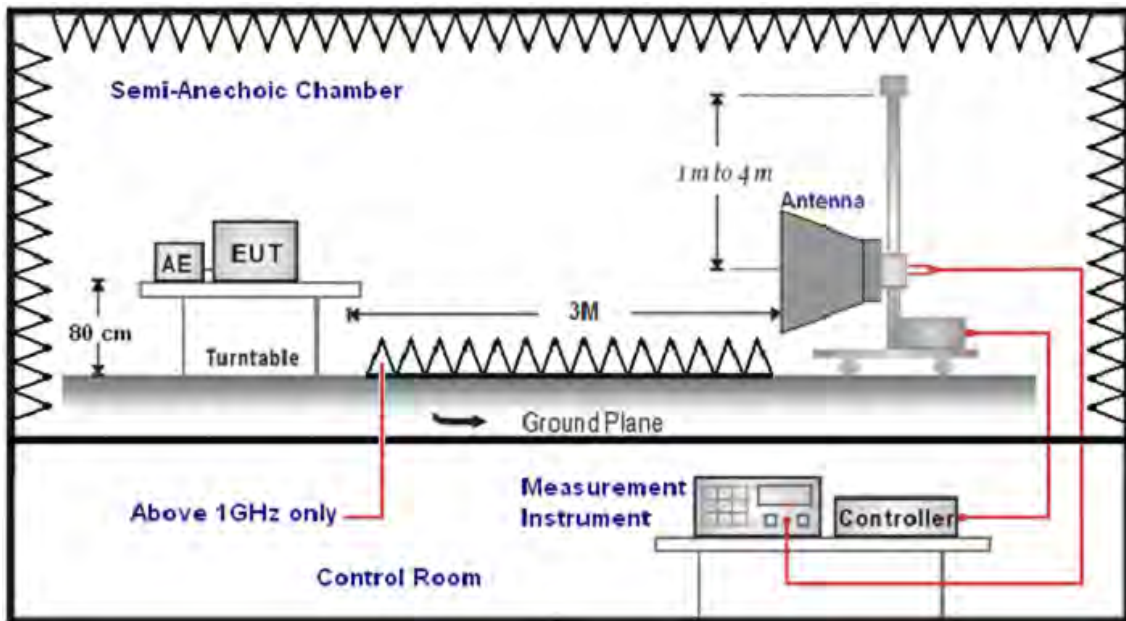
NOTE: N.C.R. = No Calibration Request.

4.3. Setup

Below 1GHz



Above 1GHz



4.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (model VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) $\text{Amplitude (dBuV/m)} = \text{FI (dBuV)} + \text{AF (dBuV)} + \text{CL (dBuV)} - \text{Gain (dB)}$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) $\text{Actual Amplitude (dBuV/m)} = \text{Amplitude (dBuV)} - \text{Dis (dB)}$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Data of measurement within this frequency range without mark 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.

4.5. Test Result

Below 1GHz

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	08/28/2012
Ant.Polar.:	Horizontal	Test By:	Fly Lu
Frequency:	902.75 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	128.0000	44.20	-14.16	30.04	43.50	-13.46	QP
2	221.5000	46.65	-14.37	32.28	46.00	-13.72	QP
3	329.5000	44.69	-11.73	32.96	46.00	-13.04	QP
4	501.0000	35.80	0.16	35.96	46.00	-10.04	QP
5	658.5000	32.76	3.42	36.18	46.00	-9.82	QP
6	815.5000	33.11	3.19	36.30	46.00	-9.70	QP

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	08/28/2012
Ant.Polar.:	Vertical	Test By:	Fly Lu
Frequency:	902.75 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	165.0000	46.79	-12.44	34.35	43.50	-9.15	QP
2	300.0000	37.03	-2.82	34.21	46.00	-11.79	QP
3	444.0000	39.92	-3.79	36.13	46.00	-9.87	QP
4	572.5000	34.42	0.36	34.78	46.00	-11.22	QP
5	673.0000	33.96	2.96	36.92	46.00	-9.08	QP
6	840.0000	28.46	4.97	33.43	46.00	-12.57	QP

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	08/28/2012
Ant.Polar.:	Horizontal	Test By:	Fly Lu
Frequency:	914.75 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	162.5000	49.26	-16.03	33.23	43.50	-10.27	QP
2	300.0000	45.62	-10.51	35.11	46.00	-10.89	QP
3	501.0000	34.60	0.16	34.76	46.00	-11.24	QP
4	615.5000	32.74	1.82	34.56	46.00	-11.44	QP
5	722.0000	31.90	2.32	34.22	46.00	-11.78	QP
6	840.0000	30.07	5.48	35.55	46.00	-10.45	QP

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	08/28/2012
Ant.Polar.:	Vertical	Test By:	Fly Lu
Frequency:	914.75 MHz	Frequency:	914.75 MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0000	47.32	-13.40	33.92	43.50	-9.58	QP
2	224.5000	41.74	-5.81	35.93	46.00	-10.07	QP
3	360.0000	42.99	-7.73	35.26	46.00	-10.74	QP
4	444.0000	39.85	-3.79	36.06	46.00	-9.94	QP
5	644.5000	35.02	0.93	35.95	46.00	-10.05	QP
6	840.0000	27.74	4.97	32.71	46.00	-13.29	QP

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	08/28/2012
Ant.Polar.:	Horizontal	Test By:	Fly Lu
Frequency:	927.25 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0000	45.10	-14.01	31.09	43.50	-12.41	QP
2	300.0000	45.74	-10.51	35.23	46.00	-10.77	QP
3	501.0000	34.97	0.16	35.13	46.00	-10.87	QP
4	630.0000	34.54	1.27	35.81	46.00	-10.19	QP
5	750.0000	31.69	4.39	36.08	46.00	-9.92	QP
6	875.0000	29.30	4.26	33.56	46.00	-12.44	QP

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	08/28/2012
Ant.Polar.:	Vertical	Test By:	Fly Lu
Frequency:	927.25 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	165.0000	46.20	-12.44	33.76	43.50	-9.74	QP
2	300.0000	35.55	-2.82	32.73	46.00	-13.27	QP
3	444.0000	40.17	-3.79	36.38	46.00	-9.62	QP
4	587.0000	36.20	1.17	37.37	46.00	-8.63	QP
5	696.0000	34.00	4.11	38.11	46.00	-7.89	QP
6	840.0000	27.67	4.97	32.64	46.00	-13.36	QP

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	08/28/2012
Ant.Polar.:	Horizontal	Test By:	Fly Lu
Frequency:	902.75 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.0000	43.08	-14.06	29.02	43.50	-14.48	QP
2	224.0000	45.66	-13.82	31.84	46.00	-14.16	QP
3	337.0000	37.92	-8.01	29.91	46.00	-16.09	QP
4	497.5000	32.06	-0.16	31.90	46.00	-14.10	QP
5	673.0000	32.19	0.82	33.01	46.00	-12.99	QP
6	840.0000	28.08	5.48	33.56	46.00	-12.44	QP

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	08/28/2012
Ant.Polar.:	Vertical	Test By:	Fly Lu
Frequency:	902.75 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	124.0000	45.14	-12.64	32.50	43.50	-11.00	QP
2	243.5000	36.32	-4.76	31.56	46.00	-14.44	QP
3	472.5000	35.76	-2.55	33.21	46.00	-12.79	QP
4	631.5000	31.05	0.10	31.15	46.00	-14.85	QP
5	774.0000	28.79	4.38	33.17	46.00	-12.83	QP
6	914.5000	26.82	7.45	34.27	46.00	-11.73	QP

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	08/28/2012
Ant.Polar.:	Horizontal	Test By:	Fly Lu
Frequency:	914.75 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0000	43.98	-14.01	29.97	43.50	-13.53	QP
2	329.5000	44.80	-11.73	33.07	46.00	-12.93	QP
3	515.5000	30.00	0.51	30.51	46.00	-15.49	QP
4	630.0000	31.19	1.27	32.46	46.00	-13.54	QP
5	781.5000	30.82	2.20	33.02	46.00	-12.98	QP
6	875.0000	28.83	4.26	33.09	46.00	-12.91	QP

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	08/28/2012
Ant.Polar.:	Vertical	Test By:	Fly Lu
Frequency:	914.75 MHz	Frequency:	914.75 MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.0000	40.97	-9.62	31.35	43.50	-12.15	QP
2	240.0000	37.05	-3.35	33.70	46.00	-12.30	QP
3	386.0000	38.70	-6.78	31.92	46.00	-14.08	QP
4	472.5000	36.48	-2.55	33.93	46.00	-12.07	QP
5	673.0000	32.07	2.96	35.03	46.00	-10.97	QP
6	820.0000	27.91	4.52	32.43	46.00	-13.57	QP

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	08/28/2012
Ant.Polar.:	Horizontal	Test By:	Fly Lu
Frequency:	927.25 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.0000	43.13	-14.06	29.07	43.50	-14.43	QP
2	312.0000	39.88	-10.46	29.42	46.00	-16.58	QP
3	515.5000	30.52	0.51	31.03	46.00	-14.97	QP
4	615.5000	32.62	1.82	34.44	46.00	-11.56	QP
5	768.0000	29.59	3.50	33.09	46.00	-12.91	QP
6	899.5000	26.25	6.71	32.96	46.00	-13.04	QP

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	MPR-1910	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	08/28/2012
Ant.Polar.:	Vertical	Test By:	Fly Lu
Frequency:	927.25 MHz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	172.0000	43.35	-11.67	31.68	43.50	-11.82	QP
2	288.5000	33.13	-2.76	30.37	46.00	-15.63	QP
3	472.5000	35.39	-2.55	32.84	46.00	-13.16	QP
4	572.5000	34.19	0.36	34.55	46.00	-11.45	QP
5	701.5000	32.22	2.07	34.29	46.00	-11.71	QP
6	866.0000	26.17	6.50	32.67	46.00	-13.33	QP

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Above 1GHz

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	MPR-1910			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	1			Date:	08/28/2012		
Frequency:	902.75 MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
1297.000	46.89	-4.98	41.91	74.00	-32.09	peak	H
2710.000	45.90	1.17	47.07	74.00	-26.93	peak	H
4510.000	42.37	6.98	49.35	74.00	-24.65	peak	H
1279.000	46.30	-5.09	41.21	74.00	-32.79	peak	V
2710.000	47.16	1.17	48.33	74.00	-25.67	peak	V
4510.000	42.41	6.98	49.39	74.00	-24.61	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	MPR-1910			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	1			Date:	08/28/2012		
Frequency:	914.75 MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
1495.000	48.26	-3.79	44.47	74.00	-29.53	peak	H
2746.000	49.89	1.30	51.19	74.00	-22.81	peak	H
4573.000	42.38	7.17	49.55	74.00	-24.45	peak	H
1495.000	44.82	-3.79	41.03	74.00	-32.97	peak	V
2746.000	47.07	1.30	48.37	74.00	-25.63	peak	V
4573.000	42.05	7.17	49.22	74.00	-24.78	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	MPR-1910			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Mode:	1			Date:	08/28/2012		
Frequency:	927.25 MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
1855.000	48.67	-2.36	46.31	74.00	-27.69	peak	H
2782.000	47.21	1.43	48.64	74.00	-25.36	peak	H
4636.000	41.42	7.37	48.79	74.00	-25.21	peak	H
1855.000	50.13	-2.36	47.77	74.00	-26.23	peak	V
2692.000	42.23	1.11	43.34	74.00	-30.66	peak	V
4636.000	41.74	7.37	49.11	74.00	-24.89	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	MPR-1910			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 2			Date:	08/28/2012		
Frequency:	902.75 MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
1594.000	50.38	-3.39	46.99	74.00	-27.01	peak	H
2710.000	47.41	1.17	48.58	74.00	-25.42	peak	H
4510.000	43.82	6.98	50.80	74.00	-23.20	peak	H
1495.000	48.92	-3.79	45.13	74.00	-28.87	peak	V
2710.000	47.89	1.17	49.06	74.00	-24.94	peak	V
4510.000	43.58	6.98	50.56	74.00	-23.44	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	MPR-1910			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 2			Date:	08/28/2012		
Frequency:	914.75 MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
1594.000	51.45	-3.39	48.06	74.00	-25.94	peak	H
2746.000	50.39	1.30	51.69	74.00	-22.31	peak	H
4573.000	43.15	7.17	50.32	74.00	-23.68	peak	H
1990.000	48.18	-1.83	46.35	74.00	-27.65	peak	V
2746.000	47.45	1.30	48.75	74.00	-25.25	peak	V
4573.000	42.74	7.17	49.91	74.00	-24.09	peak	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		MPR-1910		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 2		Date:		08/28/2012	
Frequency:		927.25 MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
1855.000	50.15	-2.36	47.79	74.00	-26.21	peak	H
2782.000	48.66	1.43	50.09	74.00	-23.91	peak	H
4636.000	43.54	7.37	50.91	74.00	-23.09	peak	H
1855.000	50.49	-2.36	48.13	74.00	-25.87	peak	V
2998.000	42.85	2.20	45.05	74.00	-28.95	peak	V
4636.000	42.26	7.37	49.63	74.00	-24.37	peak	V