ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No.	**: E09NR-067**
AGR No	**: A09NA-021**
Applicant	**: Gaon-Int Co., LTD.**
Address	**: Daelim Bldg., Suite 1501, 592-5, Dohwa1-dong, Nam-gu, Incheon, Korea**
Manufacturer	**: RUIHUA ELECTRONICS FACTORY**
Address	**: Xianxi Industrial Zone, Shatou Village, Changan Town, Dongguan City, Guangdong Province, China**
Type of Equipment	**: Wireless Presenter Transmitter**
FCC ID.	**: UP4-SP-800**
Model Name	**: SP-800**
Serial number	**: None**
Total page of Report	**: 18 pages (including this page)**
Date of Incoming	**: November 19, 2009**
Date of issue	**: November 27, 2009**

SUMMARY

The equipment complies with the regulation; **FCC Part 15 Subpart C Section 15.249.**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Prepared by: _____
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ONETECH Corp.

Reviewed by: _____
Y. K. Kwon / Managing Director
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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
E09NR-067	November 27, 2009	Initial Issue	All

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1. VERIFICATION OF COMPLIANCE

APPLICANT	: Gaon-Int Co., LTD.
ADDRESS	: Daelim Bldg., Suite 1501, 592-5, Dohwa1-dong, Nam-gu, Incheon, Korea
CONTACT PERSON	: Mr. Taejun, Kim / Director
TELEPHONE NO	: +82-32-246-1800
FCC ID	: UP4-SP-800
MODEL NO/NAME	: SP-800
SERIAL NUMBER	: N/A
DATE	: November 27, 2009

EQUIPMENT CLASS	***DXX - Part 15 Low Power Communication Device Transmitter***
KIND OF EQUIPMENT	Wireless Presenter Transmitter
THIS REPORT CONCERNS	ORIGINAL GRANT
MEASUREMENT PROCEDURES	ANSI C63.4: 2003
TYPE OF EQUIPMENT TESTED	PRE-PRODUCTION
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	CERTIFICATION
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.249
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m open area test site

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

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2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.249 (a)	Field Strength of Emission	Met the Limit / PASS
15.249 (d)	Emissions Radiated Outside of the Specified Frequency Band	Met the Limit / PASS
15.249 (e)	Radiated Emissions above 1 000 MHz	Met the Limit / PASS
15.209	Radiated Emission Limits, General Requirement	Met the Limit / PASS
15.207	Conducted Limits	Not Applicable (See Note)
15.203	Antenna Requirement	Met the Requirement / PASS

Note: The Equipment under test shall be operated by DC battery.

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in section 2.1.

2.5 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.4: 2003 and performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The open area test site and conducted measurement facilities are located on at 307-51 Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do, 464-862, Korea. Description details of test facilities were submitted to the Commission on August 21, 2008. (Registration Number: 340658)

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3. GENERAL INFORMATION

3.1 Product Description

The Gaon-Int Co., LTD., Model: SP-800 (referred to as the EUT in this report) is a Wireless Presenter Transmitter. The associated receiver of EUT is manufactured by Gaon-Int Co., Ltd., and shall be subject to DoC procedure by another test report. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Portable Device
OPERATING FREQUENCY	2 421 MHz ~ 2 460 MHz
RATED RF OUTPUT POWER	0 dBm
USED RF CHIP	Mfr.: Nordic CLSI ASA / Model No.: nRF2402
ANTENNA	PCB Pattern Antenna (Peak Gain: -1.33 dBi)
CHANNEL	40 Channels
MODULATION METHOD	GFSK
Tx DATA SPEED	1 Mbps
LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>= 1 MHz)	12 MHz
NUMBER OF LAYER	2 Layers
POWER REQUIREMENT	DC 3 V from AAA type battery

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

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5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Gaon-Int Co., LTD.	FP-350 Rev_W2	N/A
Laser Board	N/A	N/A	N/A

5.3 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested: None

5.4 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting and receiving mode is programmed. For final testing, the EUT was set at Low Channel (2 421 MHz), Middle Channel (2 440 MHz), and High Channel (2 460 MHz). To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes.

5.5 Configuration of Test System

Line Conducted Test: It is not need to test this requirement, because the EUT shall be operated by DC battery.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.4: 2003 8.3.1.1 and 13.1.4.1 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m open area test site.

The turntable was rotated through 360° and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.6 Antenna Requirement

According to 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.

Antenna Construction:

The antenna of the EUT is a chip antenna on the main board in the EUT, so no consideration of replacement by the user.

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6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating mode was investigated

Operation Mode	The Worse operating condition
It is not need to test this requirement, because the EUT shall be operated by DC battery.	

6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition
Continuous Transmitting Mode	X

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7. RADIATED EMISSION TEST

7.1 Test set-up

The radiated emissions measurements were on the 3 m, open-field test site. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 10th harmonic frequency of carrier frequency was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

Test set-up photos are included in appendix I.

7.2 Measurement uncertainty

Radiated emission electric field intensity, 30 MHz ~ 300 MHz : ± 4.43 dB

Radiated emission electric field intensity, 300 MHz ~ 1 000 MHz : ± 3.80 dB

Radiated emission electric field intensity, 1 000 MHz ~ 3 000 MHz: ± 4.4 dB

Measurement uncertainty is calculated in accordance with WECC 19-1990. The measurement uncertainty is given with a confidence of 95 % with the coverage factor, k = 2.

7.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Valid Calibration
■ -	ESiB26	Rohde & Schwarz	EMI Test Receiver	100296	Apr. 03, 2010
■ -	8566B	HP	Spectrum Analyzer	3407A08547	June 16, 2010
■ -	8564E	Hewlett-Packard	Spectrum Analyzer	3650A00756	June 15, 2010
■ -	8447D	Hewlett Packard	Amplifier	2727A04987	June 15, 2010
■ -	83051A	Agilent	RF Amplifier	3950M00201	June 15, 2010
■ -	83650L	Hewlett-Packard	Signal Generator	3844A00415	June 16, 2010
■ -	VHA9103	Schwarzbeck	Biconical Antenna	91031852	Feb. 13, 20107
■ -	9108-A(494)	Schwarzbeck	Log Periodic Antenna	62281001	Feb. 13, 2010
■-	3121C	EMCO	Dipole Antenna	9002-530	Nov. 16, 2011
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D294	June 17, 2011
■ -	MA240	HD GmbH	Antenna Master	N/A	N/A
■ -	HD100	HD GmbH	Position Controller	N/A	N/A
■ -	DS420S	HD GmbH	Turn Table	N/A	N/A

All test equipment used is calibrated on a regular basis.

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7.4 Final Result of Measurement

7.4.1 Field Strength of the Fundamental Frequency

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 38 % R.H. Temperature: 16 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(a)

Result : PASSED BY –14.39 dB at 2 460.00 MHz

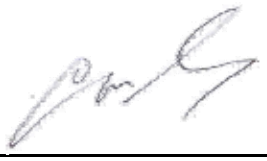
EUT : Wireless Presenter Transmitter Date: November 23 ~ 24, 2009

Operating Condition : TX mode

Distance : 3 m

Channel	Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
	Carrier Freq. (MHz)	Amplitude (dBμV)	Detect Mode	Pol.	Antenna (dB/m)	Cable (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low	2 421.00	54.80	Peak	H	27.14	5.02	86.96	113.98	-27.02
		40.80	Average	H			72.96	93.98	-21.02
		60.10	Peak	V			92.26	113.98	-21.72
		46.20	Average	V			78.36	93.98	-15.62
Middle	2 440.00	55.70	Peak	H	27.19	5.03	87.92	113.98	-26.06
		41.30	Average	H			73.52	93.98	-20.46
		59.60	Peak	V			91.82	113.98	-22.16
		45.70	Average	V			77.92	93.98	-16.06
High	2 460.00	56.00	Peak	H	27.24	5.05	88.29	113.98	-25.69
		41.70	Average	H			73.99	93.98	-19.99
		61.10	Peak	V			93.39	113.98	-20.59
		47.30	Average	V			79.59	93.98	-14.39

*Remark: To get a maximum emission level from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes.



Tested by: In-Sub, Youn / Project Engineer

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7.4.2 Emissions Conducted Outside of the Specified Frequency Bands

Humidity Level : 38 %R.H. Temperature: 16 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(d)

Result : PASS

EUT : 2.4 GHz Band Low-Power Data Communication System Transmitter Date: November 23 ~ 24, 2009

Operating Condition : TX mode

Distance : 3 m

Channel	Radiated Emissions			Ant	Correction Factors		Total	FCC Limit	
	Carrier Freq. (MHz)	Amplitude (dBμV)	Detect Mode	Pol.	Antenna (dB/m)	Cable (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low	Spurious frequencies except harmonics have margin more than 50 dB, and were scanned up to 26.5 GHz. See next page for graph data, which was obtained by conducted measurement.								
Middle									
High									

Tested by: In-Sub, Youn / Project Engineer

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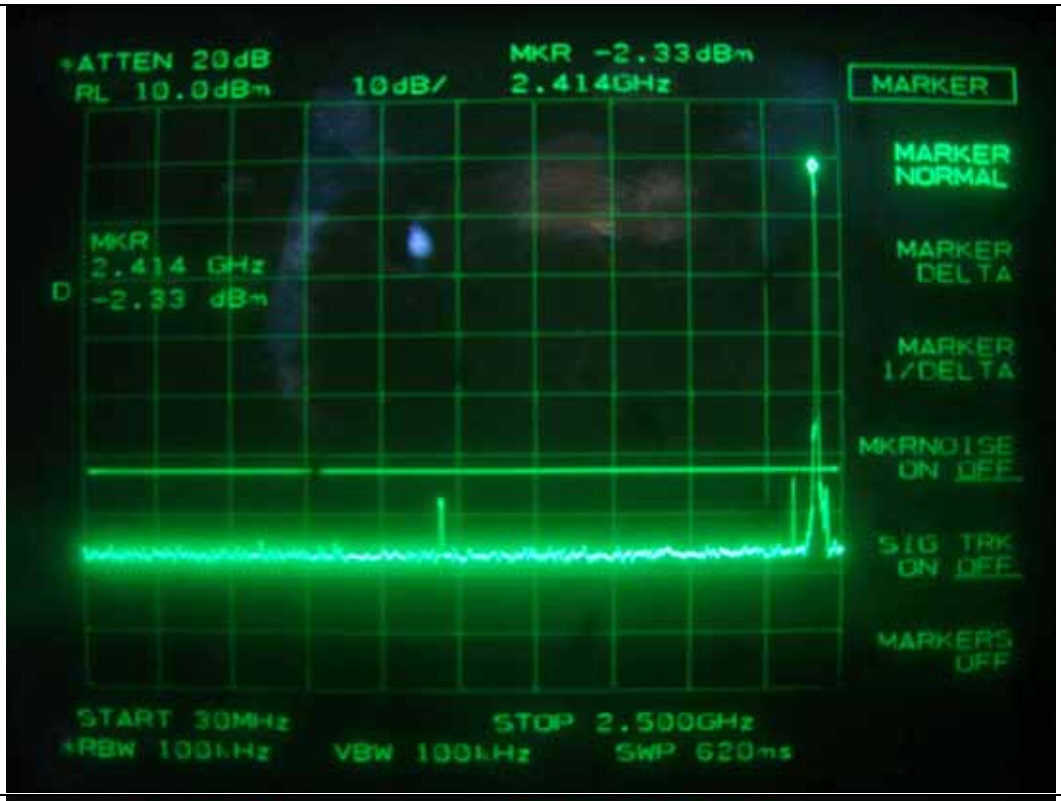
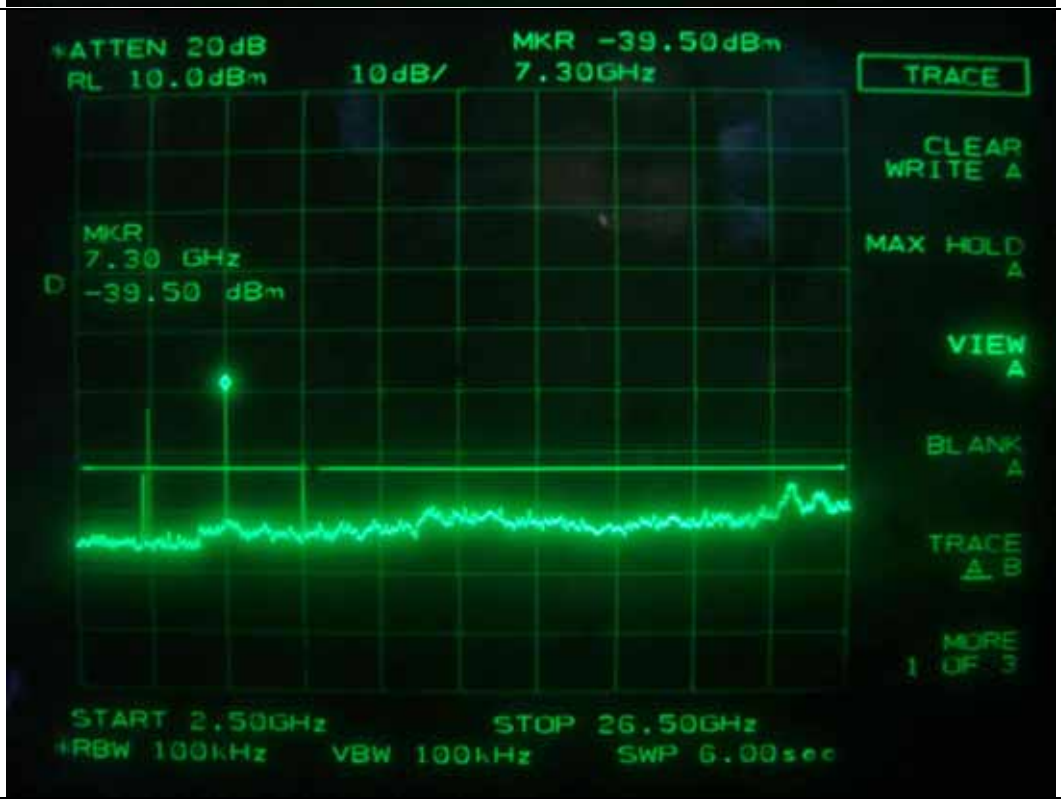
Low Channel





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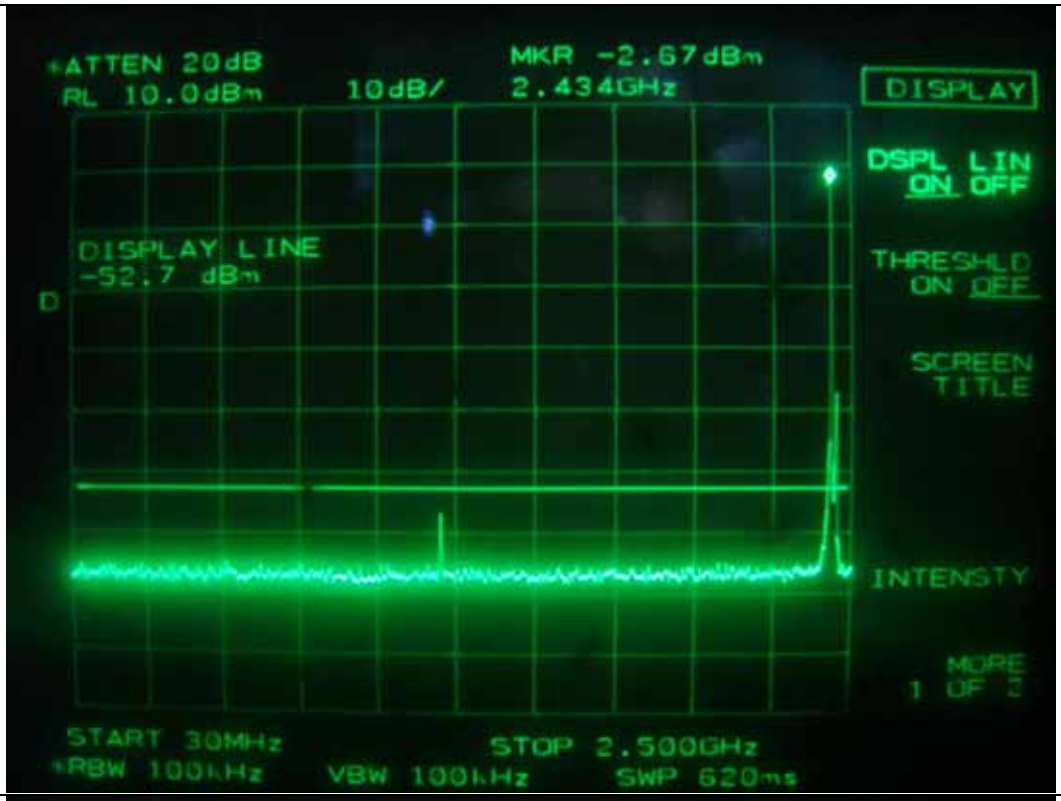
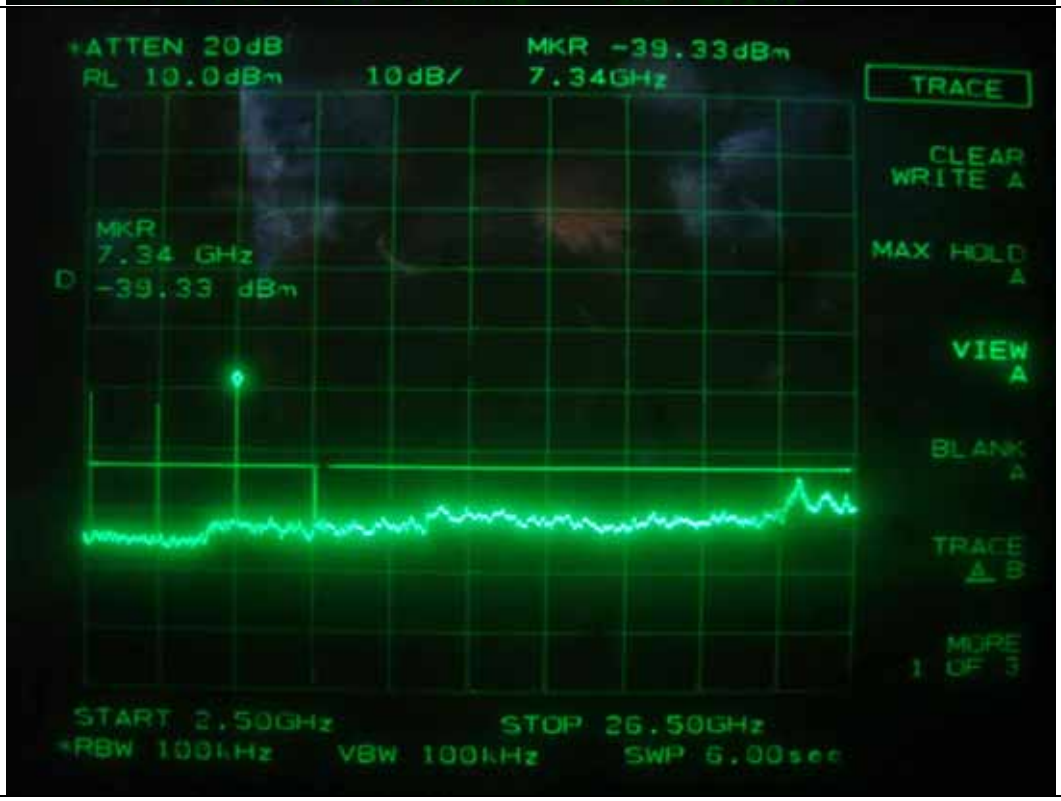
Middle Channel





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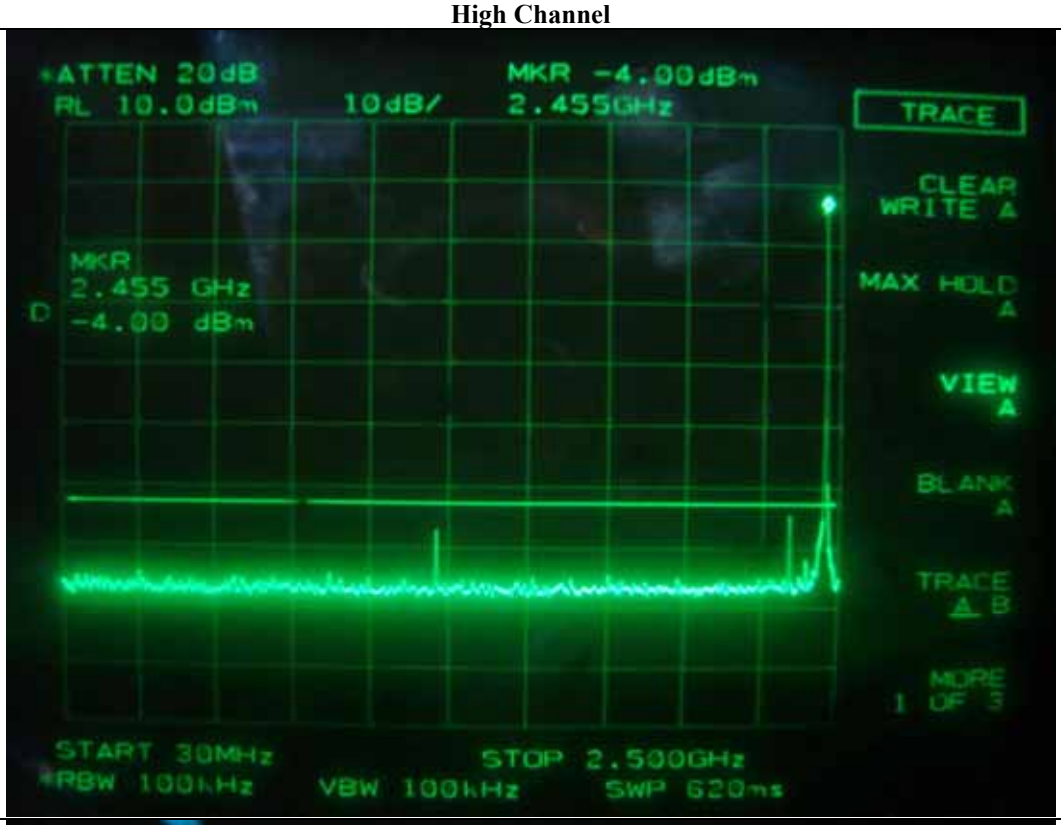
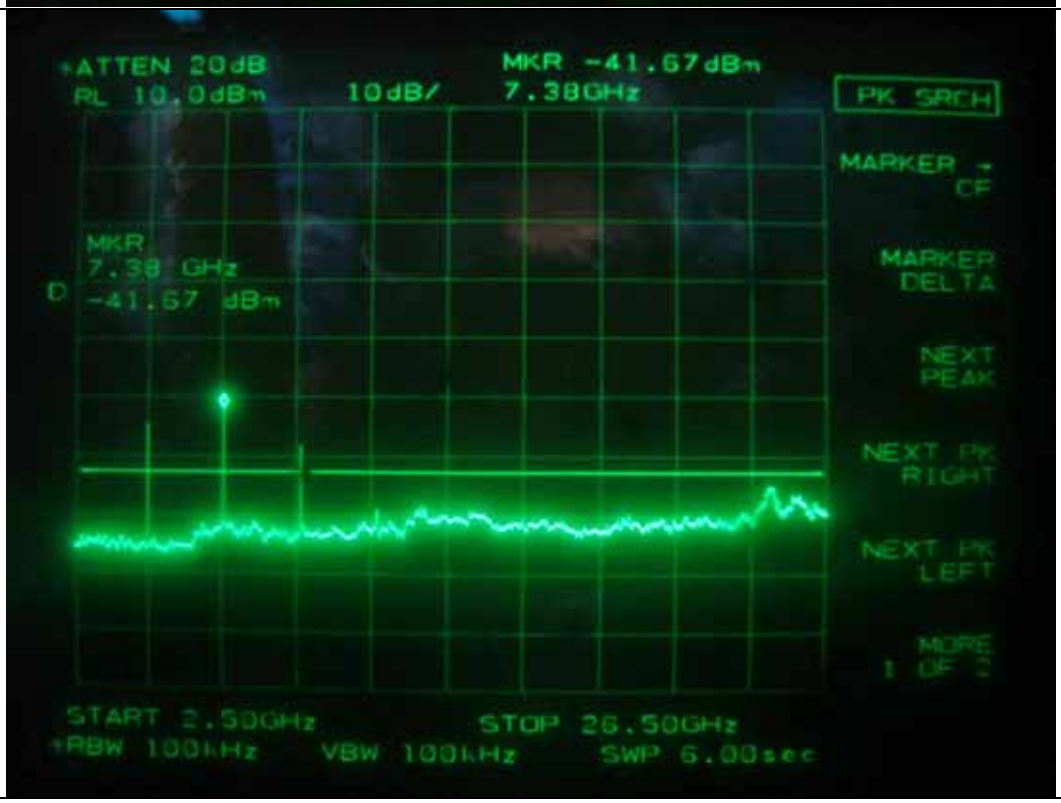
High Channel





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7.4.3 Emissions Radiated Outside of the Specified Frequency Bands

7.4.3.1 Test Data for Spurious except for Harmonic above 1 000 MHz

Humidity Level : 38 % R.H. Temperature: 16 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(d)

Result : PASSED BY –18.14 dB at 2 575.91

EUT : 2.4 GHz Band Low-Power Data Communication System Transmitter Date: November 23 ~ 24, 2009

Operating Condition : TX mode

Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 334.22*	41.20	Peak	H	26.90	4.95	29.07	43.98	73.98	-30.00
	30.90	Average	H				33.68	53.98	-20.30
	42.70	Peak	V				45.48	73.98	-28.50
	32.20	Average	V				34.98	53.98	-19.00
2 387.88*	40.90	Peak	H	27.05	4.99	28.98	43.96	73.98	-30.02
	30.50	Average	H				33.56	53.98	-20.42
	41.60	Peak	V				44.66	73.98	-29.32
	31.30	Average	V				34.36	53.98	-19.62
Test Data for Middle Channel									
2 334.48*	39.50	Peak	H	26.90	4.95	29.07	42.28	73.98	-31.70
	29.80	Average	H				32.58	53.98	-21.40
	40.70	Peak	V				43.48	73.98	-30.50
	30.20	Average	V				32.98	53.98	-21.00
2 387.89*	38.80	Peak	H	27.05	4.99	28.98	41.86	73.98	-32.12
	28.90	Average	H				31.96	53.98	-22.02
	39.90	Peak	V				42.96	73.98	-31.02
	30.20	Average	V				33.26	53.98	-20.72

Tabulated test data for Restricted Band

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Test Data for High Channel									
2 387.89*	40.18	Peak	H	27.05	4.99	28.98	43.24	73.98	-30.74
	29.60	Average	H				32.66	53.98	-21.32
	41.67	Peak	V				44.73	73.98	-29.25
	31.90	Average	V				34.96	53.98	-19.02
2 575.91*	41.25	Peak	H	27.56	5.15	28.67	45.29	73.98	-28.69
	30.30	Average	H				34.34	53.98	-19.64
	42.30	Peak	V				46.34	73.98	-27.64
	31.80	Average	V				35.84	53.98	-18.14

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical, “*” Frequency fall in restricted band

Tested by: In-Sub, Youn / Project Engineer

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7.4.3.2 Test Data for Harmonic

Humidity Level : 38 % R.H. Temperature: 16 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(a)

Result : PASSED BY –12.35 dB at 4 842.10 MHz

EUT : 2.4 GHz Band Low-Power Data Communication System Transmitter

Date: November 23 ~ 24, 2009

Operating Condition : TX mode

Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
4 842.10*	35.80	Peak	H	31.17	7.17	28.77	45.33	73.98	-28.65
	26.50	Average	H				36.03	53.98	-17.95
	42.60	Peak	V				52.13	73.98	-21.85
	32.10	Average	V				41.63	53.98	-12.35
Other frequencies were not found up to 26.5GHz.									
Test Data for Middle Channel									
4 880.00*	38.90	Peak	H	31.19	7.21	28.73	48.57	73.98	-25.41
	29.00	Average	H				38.67	53.98	-15.31
	42.30	Peak	V				51.97	73.98	-22.01
	31.90	Average	V				41.57	53.98	-12.41
Other frequencies were not found up to 26.5GHz.									
Test Data for High Channel									
4 920.10*	36.80	Peak	H	31.25	7.25	28.70	46.60	73.98	-27.38
	25.10	Average	H				34.90	53.98	-19.08
	41.30	Peak	V				51.10	73.98	-22.88
	30.10	Average	V				39.90	53.98	-14.08
Other frequencies were not found up to 26.5GHz.									

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical, “*” Frequency fall in restricted band

Tested by: In-Sub, Youn / Project Engineer

HEAD OFFICE : #505 SK Apt. Factory 223-28, Sangdaewon1-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, 462-121, Korea (TEL: 82-31-746-8500 FAX: 82-31-746-8700)
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7.4.3.3 Test Data for Spurious except for Harmonic below 1 000 MHz

Humidity Level : 38 % R.H. Temperature: 16 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(d)

Result : PASS

EUT : 2.4 GHz Band Low-Power Data Communication System Transmitter Date: November 23 ~ 24, 2009

Operating Condition : TX mode

Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.							

Tabulated test data for Radiated Electromagnetic Field

Remark: “H”: Horizontal, “V”: Vertical

Tested by: In-Sub, Youn / Project Engineer

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