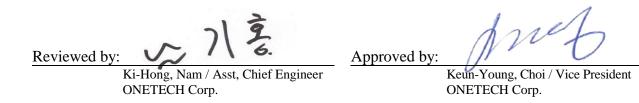


ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No.	: W172R-D022
AGR No.	: A171A-366
Applicant	: LG Innotek Co., Ltd.
Address	: 26, Hanamsandan 5beon-ro Gwangsan-gu, 506-731, Gwangju, Korea
Manufacturer	: SUZHOU NIHONE Electronics Technology Co., LTD.
Address	: No.185 XiaoXiang Road Suzhou High tech Zone
Type of Equipment	: Electronic Shelf Label
FCC ID.	: YZP-REBETZ29B
Model Name	: REBE-TZ29B
Multiple Model Name	: REBE-MZ29B
Serial number	: N/A
Total page of Report	: 32 pages (including this page)
Date of Incoming	: January 23, 2017
Date of issue	: February 17, 2017

SUMMARY

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.247* 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.



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EMC-003 (Rev.2)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
W172R-D022	February 17, 2017	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant	: LG Innotek Co., Ltd.
Address	: 26, Hanamsandan 5beon-ro Gwangsan-gu, 506-731, Gwangju, Korea
Contact Person	: Jeong, Inchang / Director
Telephone No.	: +86-62-950-0332
FCC ID	: YZP-REBETZ29B
Model Name	: REBE-TZ29B
Serial Number	: N/A
Date	: February 17, 2017

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM	
E.U.T. DESCRIPTION	Electronic Shelf Label	
THIS REPORT CONCERNS	Original Grant	
MEASUREMENT PROCEDURES	ANSI C63.10: 2013	
TYPE OF EQUIPMENT TESTED	Pre-Production	
KIND OF EQUIPMENT	Certification	
AUTHORIZATION REQUESTED		
EQUIPMENT WILL BE OPERATED	FCC PART 15 SUBPART C Section 15.247	
UNDER FCC RULES PART(S)		
Modifications on the Equipment to Achieve	Norte	
Compliance	None	
Final Test was Conducted On	3 m, Semi Anechoic Chamber	

-. 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.



2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Peak Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	N/A (See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note: This test is not performed because the EUT is 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 FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si,

Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) - Registration No. R-4112/ C-4617/ G-10666 / T-1842

IC (Industry Canada) - Registration No. Site# 3736A-3

-. Site Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) - Designation No. KR0013

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EMC-003 (Rev.2)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



3. GENERAL INFORMATION

3.1 Product Description

The LG Innotek Co., Ltd., Model REBE-TZ29B (referred to as the EUT in this report) is a Electronic Shelf Label. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Electronic Shelf Label
Temperature Range	0 °C ~ +40 °C
Operating Frequency	2 405 MHz ~ 2 480 MHz
RF Output Power	4.95 dBm
Number of Channel	16 Channel
Modulation Type	O-QPSK
Antenna Type	PCB Pattern Antenna
	Marker: TEXAS INSRUMENTS
USED RF CHIP	Model Name: CC2530
Antenna Gain	2.87 dBi
List of each Osc. or crystal	
Freq.(Freq. >= 1 MHz)	16 MHz
RATED SUPPLY VOLTAGE	3.0 V Battery(CR2477-3P)

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

-. The following lists consist of the added model and their differences.

	Model Name	Differences	Tested
		Basic Model.	
	REBE-TZ29B	(DISPLAY: COLOR)	Ø
	DEDE MZ20D	These models are identical to basic model except for the DISPLAY.	
REBE-MZ29B		(DISPLAY: MONO)	

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

4. EUT MODIFICATIONS

-. None



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	SUZHOU NIHONE Electronics Technology Co., LTD.	ESL 2.90" Tag Rev0.3	N/A
DISPLAY	N/A	N/A	N/A

5.2 Peripheral equipment

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

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 2 405 MHz, 2 440 MHz, and 2 480 MHz to get a maximum emission levels from the EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is "XZ" axis, but the worst data was recorded in this report.



5.4 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 C63.10:
2013 to determine the worse operating conditions. Final radiated emission tests were
conducted at 3 meter Semi Anechoic Chamber.
The turntable was rotated through 360 degrees 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.

5.5 Antenna Requirement

For intentional device, 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 PCB pattern antenna on the main board in the EUT, so no consideration of replacement by the user.



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 (Please check one only)	
It is not need to test this requirement, because the power of the EUT is supplied by battery.		

6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
TX mode	Х



7. MIMIMUM 6 dB BANDWIDTH

7.1 Operating environment

Temperature	:	24.3 °C
Relative humidity	:	43.9 % R.H.

7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



7.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
-	FSV40	Rohde & Schwarz	Signal Analyzer	101009	May 31, 2016 (1Y)

All test equipment used is calibrated on a regular basis.



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7.4 Test data

-. Test Date : February 13, 2017 ~ February 15, 2017

: Pass

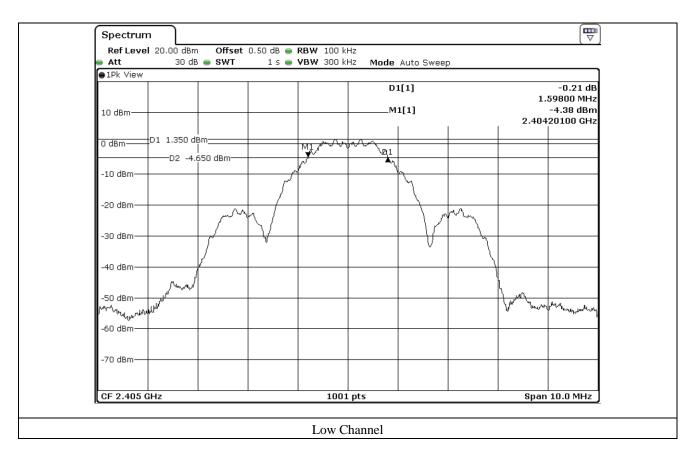
-. Test Result

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (MHz)	LIMIT (MHz)	MARGIN (MHz)
Low	2 405	1.60	0.5	1.10
Middle	2 440	1.62	0.5	1.12
High	2 480	1.60	0.5	1.10

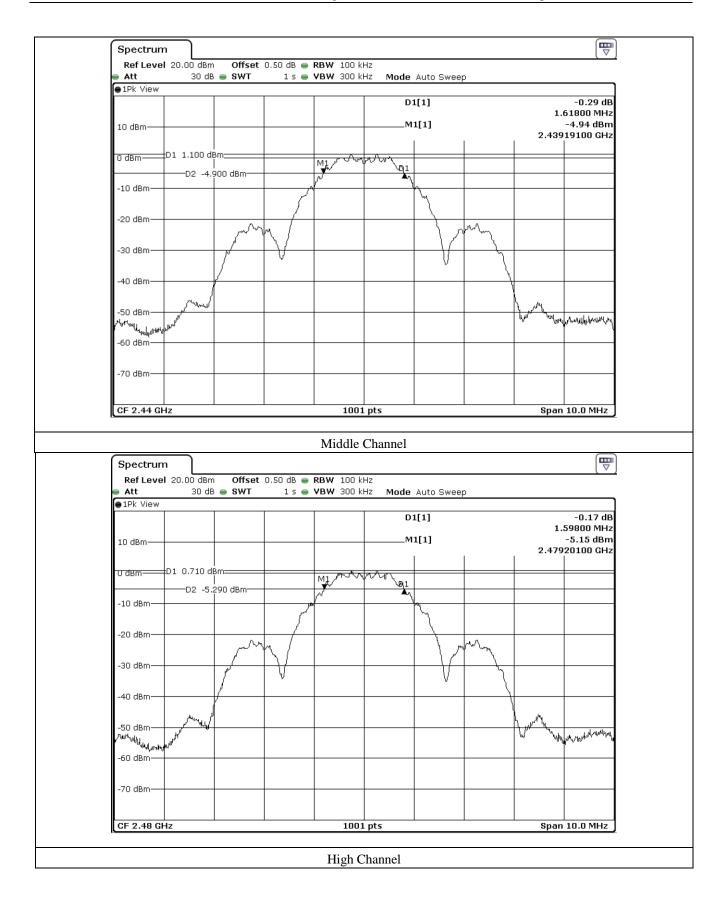
Remark. Margin = Measured Value - Limit



Tested by: Hyung-Kwon, Oh / Engineer









8. MAXIMUM PEAK OUTPUT POWER

8.1 Operating environment

Temperature	:	24.3 °C
Relative humidity	:	43.9 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to \geq DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



8.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ -	FSV40	Rohde & Schwarz	Signal Analyzer	101009	May 31, 2016 (1Y)

All test equipment used is calibrated on a regular basis.



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8.4 Test data

-. Test Date : February 13, 2017 ~ February 15, 2017

: Pass

-. Test Result

CHANNEL	FREQUENCY	DTS	MEASURED VALUE	LIMIT	MARGIN
	(MHz)	(MHz)	(dBm)	(dBm)	(dB)
LOW	2 405	1.60	4.95	30.00	25.05
MIDDLE	2 440	1.62	4.70	30.00	25.30
HIGH	2 480	1.60	4.34	30.00	25.66

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

Tested by: Hyung-Kwon, Oh / Engineer

Att 30 dB 👄	SWT 1 s 👄 VBW	10 MHz Mode Auto Sweep	p
●1Pk View		M1[1]	4.95 dBm 2.40470530 GHz
10 dBm	M1		
U dBm			
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
-60 dBm			
-70 dBm			
CF 2.405 GHz		1001 pts	Span 5.0 MHz



Spectrum Ref Level	20.00 dBm	Offset	0.50 dB 👄	RBW 3 MH	łz			
Att 🗧		SWT		VBW 10 MH		Auto Sweep		
●1Pk View								
					M	1[1]	2.439	4.70 dBn 64040 GH
10 dBm								
				M1				
0 dBm							 	
o doni								
10 -10								
-10 dBm								
-20 dBm								
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
-JU UBIII								
-70 dBm								
CF 2.44 GHz				1001	pts		 Spa	n 5.0 MHz
Spectrum				Middle				
Ref Level Att		Offset SWT		Middle RBW 3 MH VBW 10 MH	łz	Auto Sweep		
Ref Level				RBW 3 MH	Hz Hz Mode (
Ref Level Att				RBW 3 MH	Hz Hz Mode (Auto Sweep 1[1]	 0.476	4.34 dBn
Ref Level Att 1Pk View				RBW 3 MH	Hz Hz Mode (2.479	
Ref Level Att				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View				RBW 3 MH	Hz Hz Mode (2.479	4.34 dBn
Ref Level Att 1Pk View				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.479	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.479	4.34 dBn
Ref Level Att 1Pk View				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.479	4.34 dBn
Ref Level Att 1Pk View 10 dBm -10 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.479	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.479	4.34 dBn
Ref Level Att 1Pk View 10 dBm -10 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm -10 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.479	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -40 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -40 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm				RBW 3 MH VBW 10 MH	Hz Hz Mode (2.475	4.34 dBn
Ref Level Att 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	30 dB			RBW 3 MH VBW 10 MH	Hz Hz Mode /			4.34 dBn



9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

9.1 Operating environment

Temperature	:	24.3 °C
Relative humidity	:	43.9 % R.H.

9.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



9.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

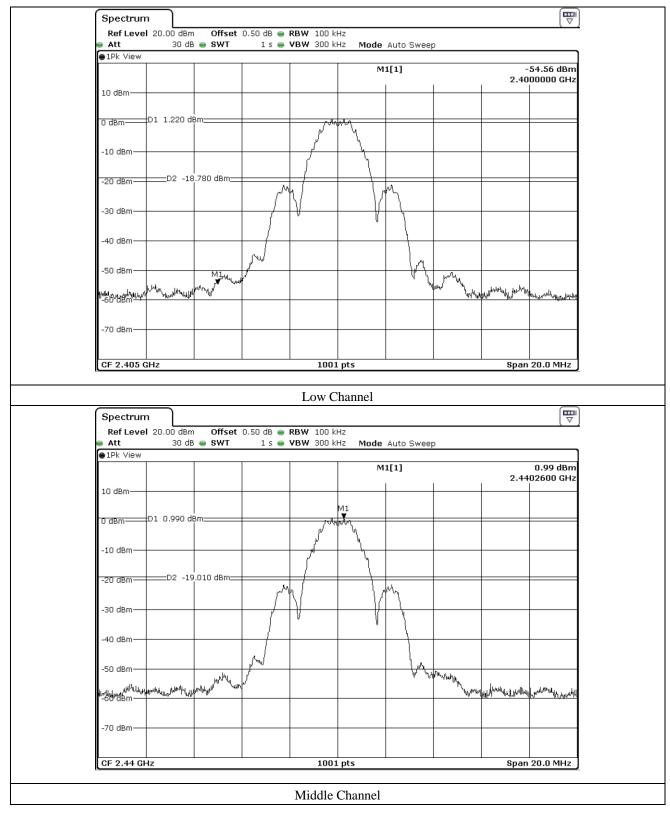
9.4 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
-	FSV40	Rohde & Schwarz	Signal Analyzer	101009	May 31, 2016 (1Y)
-	ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 06, 2016 (1Y)
■ -	310N	Sonoma Instrument	Pre-Amplifier	312544	Apr. 05, 2016 (1Y)
■ -	SCU-18	Rohde & Schwarz	Pre-Amplifier	10041	Nov. 23, 2016 (1Y)
■ -	DT3000	Innco System	Turn Table	930611	N/A
■ -	MA4000-EP	Innco System	Antenna Master	3320611	N/A
-	VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-421	Apr. 15, 2016 (2Y)
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Aug. 31, 2015 (2Y)
■ -	BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Aug. 31, 2015 (2Y)

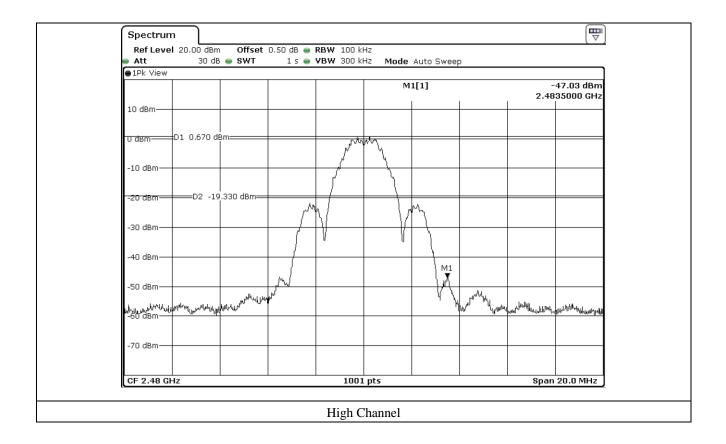
All test equipment used is calibrated on a regular basis.



9.5 Test data for conducted emission









Ref Level 20 Att	30 dB 🖷 SV		 RBW 100 ki VBW 300 ki 		Auto Sweep	5		
●1Pk View								
				M1	[1]			52.56 dBm 55.80 MHz
10 dBm							ļ	
0 dBm								
o dom								
-10 dBm								
-10 dBill								
-20 dBmD1	-18.780_dBm <u>-</u>							
-20 ubiii								
00 db								
-30 dBm								
-40 dBm								
-50 dBm <u>M1</u>								
, John Million								
	Jan Herstahlenster		haberture	lawry providence	Myhadrody My	ayijilarda jert angelika	harante	population the providence of the second s
the Dirich of a second where	an and the set of the							
-70 dBm								
Start 30.0 MH	z		1001	pts			Sto	p 2.5 GHz
Spectrum			Low C					
RefLevel 20 Att	1.00 dBm Of 30 dB = SV		Low C	Hz	Auto Sweep	0		
Ref Level 20			😑 RBW 100 k	Hz Hz Mode /		0		
RefLevel 20 Att			😑 RBW 100 k	Hz Hz Mode /	Auto Sweer	0		46.01 dBm
RefLevel 20 Att			😑 RBW 100 k	Hz Hz Mode /				
Ref Level 20 Att 1Pk View			😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View			😑 RBW 100 k	Hz Hz Mode /		5		46.01 dBm
Ref Level 20 Att 1Pk View			😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View 10 dBm 0 dBm			😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View			😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View 10 dBm 0 -10 dBm 0			😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View 10 dBm 0 0 dBm -10 dBm	30 dB 🖷 SV		😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View 10 dBm 10 0 dBm 10 -10 dBm 01	30 dB 🖷 SV		😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View 10 dBm 0 -10 dBm 0	30 dB 🖷 SV		😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 1Pk View 10 dBm 10 0 dBm 10 -10 dBm 10 -20 dBm D1 -30 dBm 10	30 dB 🖷 SV		😑 RBW 100 k	Hz Hz Mode /				46.01 dBm
Ref Level 20 Att 10 1Pk View 10 10 dBm 10 -10 dBm 10 -20 dBm D1 -30 dBm -40 dBm	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 10 10 dBm 0 0 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm -40 dBm	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 10 10 dBm 0 0 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm -40 dBm	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 10 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 10 10 dBm 0 0 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm -40 dBm	30 dB ● SV	VT 1 s	😑 RBW 100 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 10 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Mode /	[1]			46.01 dBm 9.9190 GHz
Ref Level 20 Att 1Pk View 10 dBm 10 0 dBm 10 -10 dBm 10 -20 dBm 01 -30 dBm 01 -50 dBm 01 -50 dBm 01 -50 dBm 01	30 dB ● SV	VT 1 s	RBW 100 k VBW 300 k	Hz Hz M1	[1]		1!	46.01 dBm 9.9190 GHz



RefLevel 20.00 dBm Att 30 dB (Offset 0.10 dB	RBW 100 kH VBW 300 kH		Auto Sweet			
●1Pk View	3 WI 13	YDYY SUUKH	12 MOUE P	Auto Sweep	1		
			M1	[1]		-	52.12 dBm
							55.80 MHz
10 dBm							
0 dBm							
-10 dBm							
-20 dBm D1 -19.010 dE	3m						
-20 ubiii							
-30 dBm							
-40 dBm							
-50 dBm M1							
taribu.							
-60	her worth the production of the second		Illurita d	ا دان ال ال	Litalini Uma nilada d	und the second	www.ukuutate.
Land Mallin I. I. Mar Marken of Marken and Ma	Aborthe and a second and a second	Martureul alteration	yerseller the service of the	yourout the search of the	ն ունաստիլի դով լլել դու	- W.V	2 · · · · · · · · · · · · · · · · · · ·
-70 dBm							
Start 30.0 MHz		1001	pts			Sto	p 2.5 GHz
		Middle (Channel				
Spectrum							
Ref Level 20.00 dBm	Offset 3.28 dB ● SWT 1 s ●	RBW 100 kH	łz	Auto Sweep	1		
RefLevel 20.00 dBm Att 30 dB (iz iz Mode A	Auto Sweep)		⊽
RefLevel 20.00 dBm Att 30 dB (RBW 100 kH	łz)		46.33 dBm
Att 30 dB 1Pk View 100 dBm		RBW 100 kH	iz iz Mode A				
RefLevel 20.00 dBm Att 30 dB (RBW 100 kH	iz iz Mode A				46.33 dBm
Att 30 dB 1Pk View 10 dBm		RBW 100 kH	iz iz Mode A		,		46.33 dBm
Att 30 dB 1Pk View 100 dBm		RBW 100 kH	iz iz Mode A				46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm		RBW 100 kH	iz iz Mode A		· · · · · · · · · · · · · · · · · · ·		46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm		RBW 100 kH	iz iz Mode A				46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 0 dBm 0		RBW 100 kH	iz iz Mode A				46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 0 dBm 0	SWT 15	RBW 100 kH	iz iz Mode A		,		46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View	SWT 15	RBW 100 kH	iz iz Mode A		· · · · · · · · · · · · · · · · · · ·		46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 0 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB	SWT 15	RBW 100 kH	iz iz Mode A		· · · · · · · · · · · · · · · · · · ·		46.33 dBm
Ref Level 20.00 dBm Att 30 dB 10 dBm 10 dBm	SWT 15	RBW 100 kH	iz iz Mode A		· · · · · · · · · · · · · · · · · · ·		46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 0 dBm 10 dBm -10 dBm 10 dBm -20 dBm 01 -19.010 dB -30 dBm -30 dBm	SWT 15	RBW 100 kH	iz iz Mode A		· · · · · · · · · · · · · · · · · · ·		46.33 dBm
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB -30 dBm -40 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB -30 dBm -40 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB -30 dBm -40 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm 01 -19.010 dB -30 dBm -40 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm 01 -19.010 dB -30 dBm -40 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB -30 dBm -40 dBm -50 dBm -50 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB -30 dBm -40 dBm -50 dBm -50 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB -30 dBm 10 dBm -50 dBm 10 dBm -60 dBm 10 dBm	3m	RBW 100 kH	iz Mode A M1				46.33 dBm 0.3740 GHz
Ref Level 20.00 dBm Att 30 dB 1Pk View 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 -19.010 dB -30 dBm 10 dBm -50 dBm 10 dBm -60 dBm 10 dBm	3m	RBW 100 kH	iz kz Mode A M1			20	46.33 dBm 0.3740 GHz



		t 0.10 dB 👄 R						
● Att ●1Pk View	30 dB 😑 SWT	1 s 🖷 ۷	/BW 300 kł	Hz Mode	Auto Sweej	0		
TLY AIGM				M	1[1]		-	51.75 dBm
					-[-]			55.80 MHz
10 dBm								
0 dBm								
-10 dBm								
-20 dBm-D1 -	-19.330 dBm====							
-30 dBm								
-40 dBm								
-50 dBm								
-50 dBill								
	nuphybertelevite	ill phylosopell, il april p	เป็นการณ์เป็นที่ปุ่นไ	rununumhhaum	low-many-low-low-low-low-low-low-low-low-low-low		hered and a second and the second	HUTONUUNATUUNATU
-70 dBm								
Start 30.0 MHz			1001	pts			Sto	p 2.5 GHz
Spectrum	٦		High C	Channel				
Spectrum Ref Level 20.		t 3.28 dB 👄 R 1 s 👄 V	100 k	Hz	Auto Sweel	0		
Ref Level 20.	00 dBm Offse 30 dB e SWT			Hz Hz Mode	Auto Sweej	2		⊽
RefLevel 20. Att			100 k	Hz Hz Mode	Auto Sweej 1[1]	2		45.24 dBm
Ref Level 20. Att 1Pk View			100 k	Hz Hz Mode) 		
RefLevel 20. Att			100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View			100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View			100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View 10 dBm 0 dBm			100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View			100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View 10 dBm 0 -10 dBm -10	30 dB • SWT		100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View 10 dBm 0 dBm	30 dB • SWT		100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View 10 dBm 10 dBm -10 dBm -10 dBm	30 dB • SWT		100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View 10 dBm 0 -10 dBm -10	30 dB • SWT		100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm D1 - -30 dBm	30 dB • SWT		100 k	Hz Hz Mode				45.24 dBm
Ref Level 20. Att 1Pk View 10 dBm 10 0 dBm 10 -10 dBm 10 -20 dBm D1 - -30 dBm -40 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 10 dBm 0 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 - -30 dBm -40 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 10 dBm 0 dBm 10 dBm -10 dBm 10 dBm -20 dBm D1 - -30 dBm -40 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 0 dBm -10 dBm -30 dBm -40 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 0 dBm -10 dBm -30 dBm -40 dBm	30 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -40 dBm -50 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -40 dBm -50 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Mode M:	1[1]	M1		45.24 dBm 9.8950 GHz
Ref Level 20. Att 1Pk View 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm	-19.330 dB • SWT	15 • •	28W 100 kH 28W 300 kH	Hz Hz Mode Mi	1[1]	M1	1!	45.24 dBm 9.8950 GHz



9.6 Test data for radiated emission

9.6.1 Radiated Emission which fall in the Restricted Band and Band Edge

- -. Test Date : February 13, 2017 ~ February 15, 2017
- -. Resolution bandwidth : 1 MHz for Peak and Average Mode
- -. Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- -. Measurement distance : 3 m
- -. Duty Cycle : 100 %
- -. Result : <u>PASSED</u>

Frequency (GHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)			
(GHZ)	(ав µ v)	Mode					(авµ v/ш)	(а Бµ v /ш)	(ав)			
Test Data for Low Channel												
	47.18	Peak	Н				45.85	74.00	28.15			
2 200 000	35.49	Average	Н	07.47	11.26	10.16	34.16	54.00	19.84			
2.390 000	47.36	Peak	V	27.47	11.36	40.16	46.03	74.00	27.97			
	36.52	Average	V				35.19	54.00	18.81			
			Test I	Data for Lo	ow Channe	el						
	62.18	Peak	Н				60.85	74.00	13.15			
.	47.52	Average	Н				46.19	54.00	7.81			
2.400 000	49.17	Peak	V	27.47	11.36	40.16	47.84	74.00	26.16			
	38.01	Average	V				36.68	54.00	17.32			
			Test I	Data for Hi	gh Channe	el						
	67.58	Peak	Н				66.25	74.00	7.75			
	50.17	Average	Н				48.84	54.00	5.16			
2.483 500	58.33	Peak	V	27.47	11.36	40.16	57.00	74.00	17.00			
	47.28	Average	V				45.95	54.00	8.05			

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dB μ V/m) - Total Level (dB μ V/m)

Total Level = Reading + Antenna Factor + Cable Loss - Pre-Amplifier Gain

Tested by: Hyung-Kwon, Oh / Engineer



9.6.2 Spurious & Harmonic Radiated Emission

7.0.2 Spurio												
Test Date		: February 1	3, 2017 ~ Fe	bruary 15, 2	2017							
Resolution	bandwidth	: 1 MHz for	Peak and Av	erage Mod	e for the en	nissions fa	ll in restricted	l band,				
		100 kHz fo	r Peak Mode	for the em	issions out	side restric	ted band					
Video band	Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode											
Frequency range : 1 GHz ~ 26.5 GHz												
Measureme	Measurement distance : 3 m											
Duty Cycle												
Result		: PASSED										
Frequency	Reading	Detector	Ant. Pol.	Ant.	Cable	Amp	Total	Limits	Margin			
(MHz)	(dBµV)	Mode	(H/V)	Factor	Loss	Gain	(dBµV/m)	(dBµV/m)	(dB)			
(MHz)	(dBµV)	Mode		Factor Data for I			(dBµV/m)	(dBµV/m)	(dB)			
(MHz)	(dBµV) 45.11	Mode Peak					(dBµV/m) 51.31	(dBµV/m) 73.98	(dB) 22.67			
			Test	Data for I	Low Chan	nel						
(MHz) 4 810.00	45.11	Peak	Test H				51.31	73.98	22.67			
	45.11 34.80	Peak Average	Test H H	Data for I	Low Chan	nel	51.31 41.00	73.98 53.98	22.67 12.98			
	45.11 34.80 44.92	Peak Average Peak	Test H H V V	Data for I	Low Cham 16.10	40.60	51.31 41.00 51.12	73.98 53.98 73.98	22.67 12.98 22.86			
	45.11 34.80 44.92	Peak Average Peak	Test H H V V	Data for I 30.70	Low Cham 16.10	40.60	51.31 41.00 51.12	73.98 53.98 73.98	22.67 12.98 22.86			
	45.11 34.80 44.92 34.28	Peak Average Peak Average	Test H H V V V Test I	Data for I 30.70	Low Cham 16.10	40.60	51.31 41.00 51.12 40.48	73.98 53.98 73.98 53.98	22.67 12.98 22.86 13.52			

Tabulated test data for Restricted Band

16.50

40.60

Test Data for High Channel

31.00

Remark: "H": Horizontal, "V": Vertical

46.10

35.09

46.52

35.02

46.18

35.07

4 960.00

Peak

Average

Peak

Average

Peak

Average

V

V

Η

Η

V

V

Margin (dB) = Limits (dB μ V/m) - Total Level (dB μ V/m)

Total Level = Reading + Antenna Factor + Cable Loss - Pre-Amplifier Gain

73.98

53.98

73.98

53.98

73.98

53.98

21.28

12.29

20.56

12.06

20.90

12.01

Tested by: Hyung-Kwon, Oh / Engineer

52.70

41.69

53.42

41.92

53.08

41.97

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



10. PEAK POWER SPECTRAL DENSITY

10.1 Operating environment

Temperature	:	24.3 °C
Relative humidity	:	43.9 % R.H.

10.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to 3 kHz \leq RBW \leq 100 kHz, the video bandwidth is set to 3 times the resolution bandwidth.



10.3 Test equipment used

	Model Number Manufacturer		Description	Serial Number	Last Cal.
-	FSV40	Rohde & Schwarz	Signal Analyzer	101009	May 31, 2016 (1Y)

All test equipment used is calibrated on a regular basis.



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10.4 Test data

-. Test Date : February 13, 2017 ~ February 15, 2017

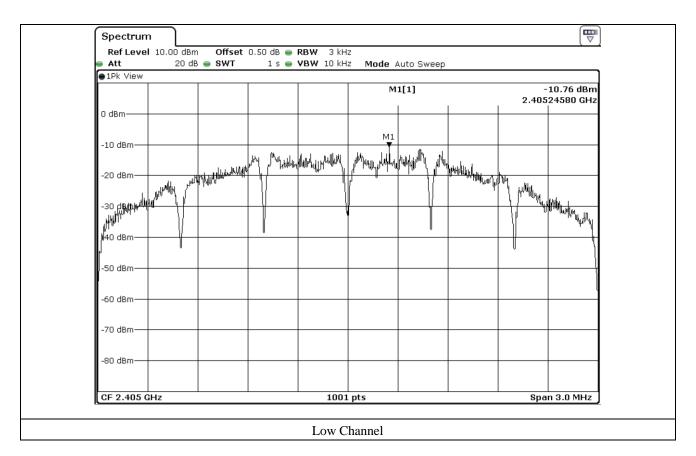
-. Test Result

: Pass -. Operating Condition : Continuous transmitting mode

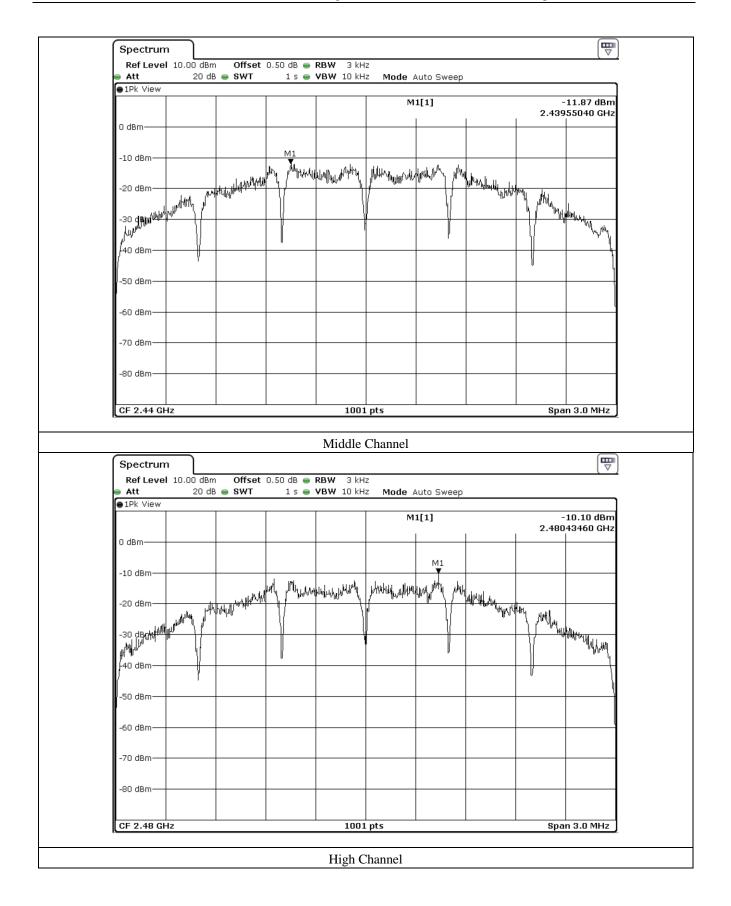
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 405	-10.76	8.00	18.76
Middle	2 440	-11.87	8.00	19.87
High	2 480	-10.10	8.00	18.10

Remark. Margin = Limit – Measured value

Tested by: Hyung-Kwon, Oh / Engineer









11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature	:	24.3 °C
Relative humidity	:	43.9 % R.H.

11.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. 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 26.5 GHz 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.

11.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
-	FSV40	Rohde & Schwarz	Signal Analyzer	101009	May 31, 2016 (1Y)
■ -	ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 06, 2016 (1Y)
■ -	310N	Sonoma Instrument	Pre-Amplifier	312544	Apr. 05, 2016 (1Y)
■ -	SCU-18	Rohde & Schwarz	Pre-Amplifier	10041	Nov. 23, 2016 (1Y)
■ -	DT3000	Innco System	Turn Table	930611	N/A
-	MA4000-EP	Innco System	Antenna Master	3320611	N/A
■ -	VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-421	Apr. 15, 2016 (2Y)
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Aug. 31, 2015 (2Y)
■ -	BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Aug. 31, 2015 (2Y)

All test equipment used is calibrated on a regular basis.



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11.4 Test data

Hum	idity L	evel.	:	: <u>43.9</u>	% R.H.	<u>.</u>						Tem	peratur	e: <u>24.</u>	<u>3 °C</u>
Limit	ts appl	y to	:	FCC	CFR 4	7, PART	15, SUE	BPART C,	SECTION 1	5.247					
Resu	lt		:	PAS	<u>SED</u>										
EUT				: Elect	ronic S	helf Lab	el]	Date: F	ebruary	, 13, 2	2017
Detec	ctor		:	CISP	R Quas	si-Peak (6 dB Bar	dwidth: 1	20 kHz)						
Oper	ating c	condition	:	: Low	Channe	el									
70	[dBu\	√/m]		< <qf< td=""><td>DATA</td><td>\>></td><td></td><td></td><td></td><td>○ HC</td><td>RIZON</td><td>TAL</td><td>/×VE</td><td>RTIC</td><td>AL</td></qf<>	DATA	\>>				○ HC	RIZON	TAL	/×VE	RTIC	AL
70															
60														+	_
50															
00															
40														4	
30															_
									9					a per a	M
20								9		here the states of the	har water		No.		
10			bvv		M	MM	man 1.	wwwwww	My Winner	WWWWWWWWW				+	_
0		×			wh ?		- Wall	WAK WA							
	30	į	50	70)	100		20	0 30	00	50		700	10	
												Fi	equen	cy[Mł	Hz]
	No.	FREQ I	READI QP				GAIN	RESULT	LIMIT	MARGIN	N ANTE	NNA T	TABLE		
		[MHz]	[dBu∖	/]	[dB]	[dB]	[dB]	[dBuV/m] [dBuV/m]	[dB]	[cm	ן [DEG]		
-	Ho	orizontal													
	1 2 3 4	191.990 239.520 288.020 432.551	34.2 41.8 33.1 27.7		10.9 12.0 13.2 16.0	3.7 4.0 4.5 5.6	33.0 33.0 33.0 33.2	15.8 24.8 17.8 16.1	43.5 46.0 46.0 46.0	27.7 21.2 28.2 29.9	100 100 100 100	5	110 267 87 69		

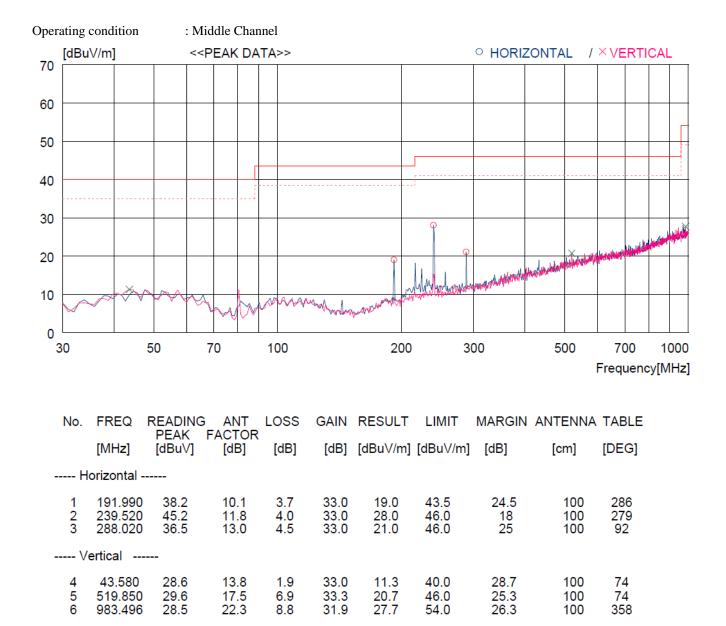
14.4 22.6 1.9 8.8

----- Vertical ------

5 6 43.580 991.256 25.9 25.0 33.0 31.8 9.2 24.6 40.0 54.0 30.8 29.4 106 100 359 351



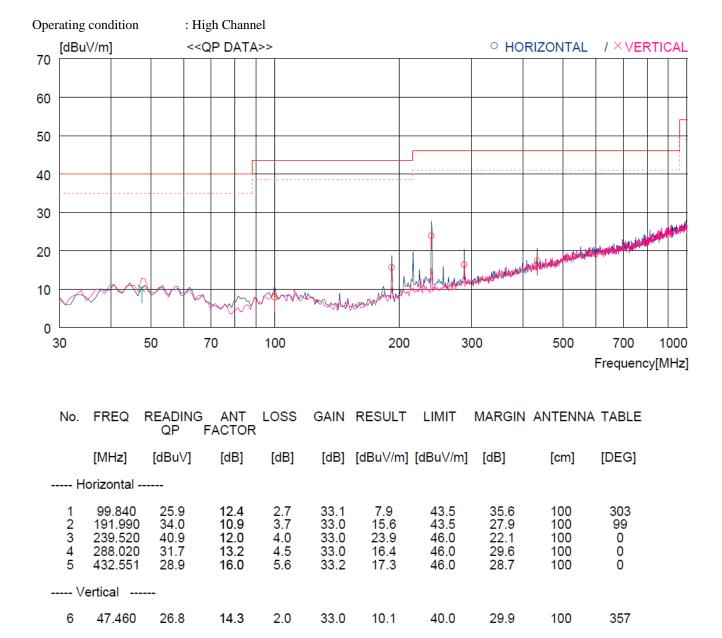
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Report No.: W172R-D022





Tested by: Hyung-Kwon, Oh / Engineer

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11.4.1 Test data for Below 30 MHz

- -. Test Date : February 13, 2017
- -. Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- -. Frequency range : 9 kHz ~ 30 MHz
- -. Measurement distance : 3 m
- -.Operating mode : Transmitting mode

Frequency	Reading	Ant. Pol.	Ant.	Angle	Ant. Factor	Cable	Emission	Limits	Margin
(MHz)	(dBµV)	(H/V)	Height (m)	(°)	(dB/m)	Loss	Level(dBµV/m)	(dBµV/m)	(dB)
			It was not o	bserved a	ny emissions	from the I	EUT.		

11.4.2 Test data for above 1 GHz

- -. Test Date : February 13, 2017
- -. Resolution bandwidth 21 MHz for Peak and Average Mode
- -. Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- -. Frequency range : 1 GHz ~ 26.5 GHz
- -. Measurement distance : 3 m
- -.Operating mode : Transmitting mode

Frequency	Reading	Ant. Pol.	Ant.	0	Ant. Factor	Cable	Emission	Limits	Margin
(MHz)	(dBµV)	(H/V)	Height (m)		(dB/m)	Loss	Level(dBµV/m)	(dBµV/m)	(dB)
			It was not o	observed a	any emissions :	from the l	EUT.		

Tested by: Hyung-Kwon, Oh / Engineer