

# FCC EVALUATION REPORT FOR CERTIFICATION

Manufacturer: OHSUNG ELECTRONICS CO., LTD.

Date of Issue: May 7, 2014

#181 Gongdan-dong, Gumi-si, Gyeongbuk,

Order Number: GETEC-C1-14-179

Republic of Korea

**Test Report Number: GETEC-E4-14-039** 

Attn: Mr. Hak-Ki Kim / General Manager

Test Site: GUMI COLLEGE EMC CENTER

FCC Registration Number: (100749, 443957)

FCC ID. : OZ5URCCP2

**Applicant: OHSUNG ELECTRONICS CO., LTD.** 

Rule Part(s)

: FCC Part 15 Subpart B

**Equipment Class** 

: Class B computing device peripheral (JBP)

**EUT Type** 

: CENTRAL PROCESSOR

Type of Authority

: Certification

**Model Name** 

: CP-2

**Trade Name** 

: UNIVERSAL Remote Control

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4 (2009)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the vest of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested by,

Reviewed by,

Seung Chul Lee, Senior Engineer GUMI COLLEGE EMC CENTER Jae-Hoon Jeong, Technical Manager GUMI COLLEGE EMC CENTER

APPENDIX G – USER'S MANUAL

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**Scope:** Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and / or unintentional radiators for compliance with technical rules and regulations of the Federal Communications Commission.

#### 1. General Information

Applicant: OHSUNG ELECTRONICS CO., LTD.

Applicant Address: #181 Gongdan-dong, Gumi-si, Gyeongbuk, Republic of Korea

Manufacturer: OHSUNG ELECTRONICS CO., LTD.

Manufacturer Address: #181 Gongdan-dong, Gumi-si, Gyeongbuk, Republic of Korea

Contact Person: Mr. Hak-Ki Kim / General Manager

Tel. Number: +82-54-468- 7281 Fax Number: +82-54- 461- 8368

• FCC ID. OZ5URCCP2

• EUT Type CENTRAL PROCESSOR

Model Name CP-2

Trade Name
UNIVERSAL Remote Control

• Serial Number Prototype

• Rule Part(s) FCC Part 15 Subpart B

• Type of Authority Certification

• Test Procedure(s) ANSI C63.4 (2009) / Canadian standard ICES-003

• **Dates of Test** April  $16 \sim 17$ , 2014

Place of Test
GUMI COLLEGE EMC CENTER (FCC Registration Number: 100749, 443957)

37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 730-711, Republic of Korea.

• Test Report Number GETEC-E3-14-039

• Dates of Issue May 7, 2014



#### 2. Introduction

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Nose Emissions From Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSI C63.4-2009) was used in determining radiated and conducted emissions emanating from **OHSUNG ELECTRONICS CO., LTD. CENTRAL PROCESSOR(Model Name: CP-2)** 

These measurement tests were conducted at GUMI COLLEGE EMC CENTER

The site address is 37 Yaeun-ro, Gumi-si, Gyeongsangbuk-do, 730-711, Republic of Korea.

This test site is one of the highest point of Gumi college at about 200 km away from Seoul city and 40 km away from Daegu city. It is located in the valley surrounded by mountains in all directions where ambient radio signal conditions are quiet and a favorable area to measure the radio frequency interference on open field test site for the computing and ISM devices manufactures. The detailed description of the measurement facility was found to be in compliance with the requirements of §2.948 according to ANSI C63.4 (2009)



Fig 1. The map above shows the Gumi College in vicinity area.

#### 3. Product Information

### 3.1 Description of EUT

The Equipment under Test (EUT) is the **OHSUNG ELECTRONICS CO., LTD. CENTRAL PROCESSOR (Model Name: CP-2) FCC ID.: OZ5URCCP2** 

-. Equipment : CENTRAL PROCESSOR

-. Model Name : CP-2

-. Serial Number : Prototype -. highest Clock Frequency : 133 MHz

Network: One 10/100 Ethernet port

Relay: One relay configurable to be NO, NC or Momentary

Sensor: Two Sensors support Video (SEN-VID), Voltage (SEN-VOLT),

Audio (SEN-AUD), Current (SEN-CMF), Light (SEN-LITE), and

Contact Closure (SEN-CCLS) sensors.

**RS-232:** Two RS-232 ports support TX, RX and GND two-way communication via URC cables.

**IR:** Six adjustable IR ports enable the included URC emitters to control IR devices *Note:* 6th IR Output requires the included sleeved emitter (identified by a pink connector), since it can optionally be used to connect an RFTX-1.

**Weight:** 10.5 oz.

**Size:** 9.76" X 4.72" X 1.10"

Power: 12V External Power Supply

: GETEC-C1-14-179 Test Report Number : GETEC-E3-14-039

# 3.2 Support Equipment / Cables used

# 3.2.1 Used Support Equipment

Description	Manufacturer	Model Name	S/N & FCC ID.
Laptop	Compaq computer	N620C	S/N: CNU33509W8 FCC ID.: None
Sensor	OHSUNG Electronics Co., Ltd.	SEN-CCLS	S/N: None. FCC ID: None

See "Appendix D – Test Setup Photographs" for actual system test set-up

3.2.2 System configuration

Description	Manufacturer	Model Name	S/N & FCC ID.
Adapter <sup>1)</sup>	SHENZHEN MLF TECH. CO.,LTD	MLF-A00121201000U0075	S/N: None. FCC ID.: N/A

<sup>1)</sup> Rating: Input AC  $100 \sim 240 \text{ V}$ , 50-60 Hz, 0.4 A / Output DC 12 V, 1.0 A

## 3.2.3 Used Cable(s)

Cable Name	Condition	Description
Power cable(Multi-tap)	Connected to the EUT(Adaptor) and power supply	1.00 m unshielded
DC in cable	Connected to the EUT(Main) and EUT(Adaptor)	1.80 m unshielded with a ferrite core
IR output #1~#5	Connected to the EUT(Main) and IR Sensor	3.00 m unshielded
RF TX	Connected to the EUT(Main) and IR Sensor	3.00 m unshielded
Sensor	Connected to the EUT(Main) and Sensor	1.50 m Unshielded
RS232	Connected to the EUT(Main) and laptop	2.00 m shielded
LAN	Connected to the EUT(Main) and Network	10.00 m unshielded

# 3.3 Modification Item(s)

- None

## 4. Description of tests

### **4.1 Test Condition**

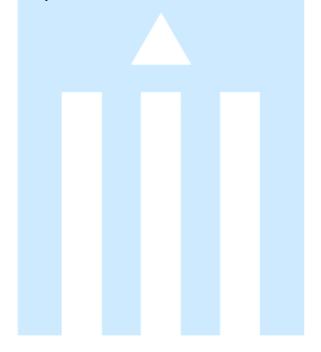
The EUT was installed, arranged and operated in a manner that is most representative of equipment as typically used. The measurements were carried out while varying operating modes and cable positions within typically arrangement to determine maximum emission level.

The representative and worst test mode(s) were noted in the test report.

The test conditions of the noted test mode(s) in this test report are;

• Test Voltage / Frequency : AC 120 V / 60 Hz

Test Mode(s): Continuous IR output and Communication Network via LAN





### **4.2 Conducted Emission**

The Line conducted emission test facility is inside a 4 m  $\times$  8 m  $\times$  2.5 m shielded enclosure. (FCC Registration No.: 100749)

The EUT was placed on a non-conducting 1.0 m by 1.5 m table, which is 0.8 m in height and 0.4 m away from the vertical wall of the shielded enclosure.

The EUT is powered from the Rohde & Schwarz LISN (ESH2-Z5) and the support equipment is powered from the Rohde & Schwarz LISN (ESH3-Z5). Powers to the LISN are filtered by high-current high insertion loss power line filter.

Sufficient time for EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition.

The RF output of the LISN was connected to the EMI test receiver (Rohde & Schwarz, ESCS30).

Exploratory measurements were conducted to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Exploratory measurements were scanned using Peak mode of EMI Test receiver from 150 kHz to 30 MHz with 20 ms sweep time. The final measurements were measured with Quasi-Peak and Average mode.

The bandwidth of EMI Test Receiver was set to 9 kHz. Interface cables were connected to the available interface ports of the test unit. Excess cable lengths were bundled at center with  $30 \text{ cm} \sim 40 \text{ cm}$ .

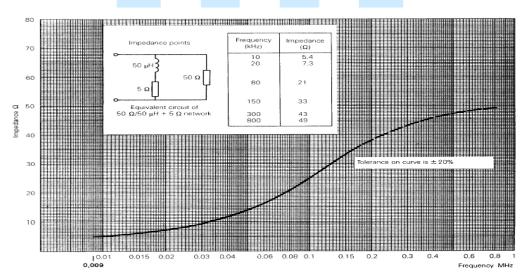


Fig 2. Impedance of LISN



### 4.3 Radiated Emission

Exploratory Radiated measurements were conducted at the 3m semi anechoic chamber in order to identify the highest emission by operating the EUT in a range of typical modes of operation, cable positions, system configuration and arrangement.

Based on exploratory measurements, the final measurements were conducted at the worst test conditions.

Final measurements of below 1GHz were made at 3m Chamber (FCC Registration No.: 443957) or Open area test site (FCC Registration No.: 100749) that complies with CISPR 16/ANSI C63.4.

Above 1GHz final measurements were conducted at the 3m Chamber (FCC Registration No.: 443957) only.

For measurements above 1GHz, the bottom side of 3m chamber was installed with absorbers in order to meet SVSWR Limit.

Exploratory measurements were scanned using Peak mode of EMI Test receiver and final measurements were measured with Quasi-Peak mode (Below 1GHz) and Peak & Average mode (Above 1GHz).

The measurements were performed by rotating the EUT 360° and adjusting the receive antenna height from 1.0 m to 4.0 m. All frequencies were investigated in both horizontal and vertical antenna polarity.

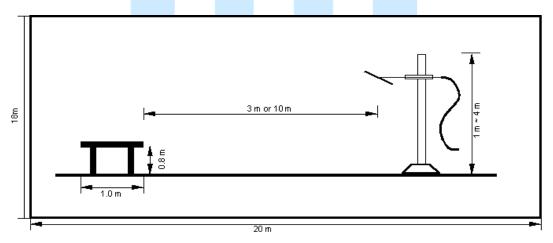


Fig 3. Dimensions of test site (Below 1GHz)

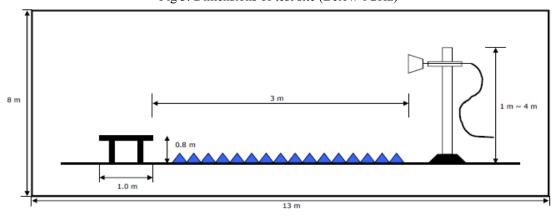


Fig 4. Dimensions of test site (Above 1GHz)

FCC ID.: OZ5URCCP2

### **5. Conducted Emission**

## **5.1 Operating Environment**

Temperature :  $23.1 \,^{\circ}\text{C}$ Relative Humidity :  $44.7 \,^{\circ}\text{R.H.}$ 

### 5.2 Test Set-up

The conducted emission measurements were performed in the shielded room.

The EUT was placed on wooden table, 0.8 m heights above the floor, 0.4 m from the reference ground plane (GRP) wall and 0.8 m from AMN &ISN.

AMN is bonded on horizontal reference ground plane.

The ground plane, which was electrically bonded to the shield room, ground system and all power lines entering the shield room, were filtered.

## **5.3 Measurement Uncertainty**

The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement."

The measurement uncertainty was given with a confidence of 95 %.

Test Items	Uncertainty	Remark
Conducted emission (9 kHz ~ 150 kHz)	± 3.89 dB	Confidence level of approximately 95 % $(k = 2)$
Conducted emission (150 kHz ~ 30 MHz)	± 3.37 dB	Confidence level of approximately 95 % $(k = 2)$



## 5.4 Limit

RFI Conducted	FCC Limit(dBμV/m) Class B				
Freq. Range	Quasi-Peak Average				
150 kHz ~ 0.5 MHz	66 ~ 56*	56 ~ 46*			
0.5 MHz ~ 5 MHz	56	46			
5 MHz ~ 30 MHz	60 50				

<sup>\*</sup>Limits decreases linearly with the logarithm of frequency.

# 5.5 Test Equipment used

	Model Name	Manufacturer	Description	Serial Number	<b>Due to Calibration</b>
■ -	ESCS30	Rohde & Schwarz	EMI Test Receiver	839809/003	05. 03. 2014
■ -	ESH3-Z5	Rohde & Schwarz	LISN	838979/020	05. 03. 2014
■ -	ESH2-Z5	Rohde & Schwarz	LISN	829991/009	05. 03. 2014
■ -	ISN T8	TESEQ. GmbH	ISN	24568	07. 10. 2014

## 5.6 Test data for Conducted Emission

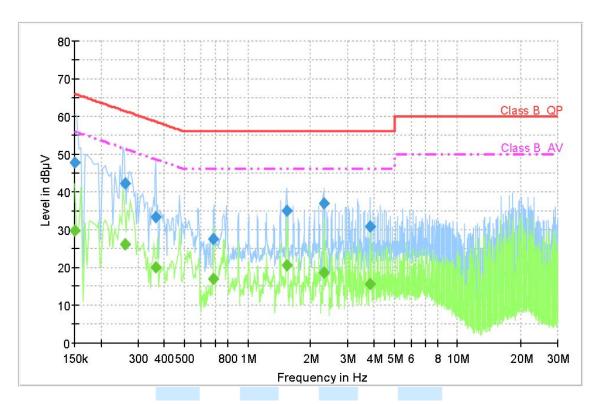
-. Test Date : April 17, 2014-. Resolution Bandwidth : 9 kHz

Frequency Range : 0.15 MHz ~ 30 MHz
Line : L1: Live, N: Neutral

EUT Type: CENTRAL PROCESSOR FCC ID.: OZ5URCCP2



• Operating condition: HDMI output to TV and plays network music via network



# **Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	47.7	1000.0	9.000	GND	L1	10.0	18.3	66.0	
0.260837	42.3	1000.0	9.000	GND	L1	10.0	19.1	61.4	
0.365252	33.3	1000.0	9.000	GND	N	10.0	25.3	58.6	
0.685755	27.5	1000.0	9.000	GND	N	10.0	28.5	56.0	
1.535574	35.0	1000.0	9.000	GND	L1	10.1	21.0	56.0	
2.306082	37.0	1000.0	9.000	GND	L1	10.1	19.0	56.0	
3.840201	30.8	1000.0	9.000	GND	L1	10.0	25.2	56.0	

# Final Result 2

Frequency	CAverage	Meas.	Bandwidth	PE	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµV)	Time (ms)	(kHz)			(dB)	(dB)	(dBµV)	
0.150000	29.6	1000.0	9.000	GND	L1	10.0	26.4	56.0	
0.260837	26.1	1000.0	9.000	GND	L1	10.0	25.3	51.4	
0.365252	20.1	1000.0	9.000	GND	N	10.0	28.5	48.6	
0.685755	17.0	1000.0	9.000	GND	N	10.0	29.0	46.0	
1.535574	20.7	1000.0	9.000	GND	L1	10.1	25.3	46.0	
2.306082	18.6	1000.0	9.000	GND	L1	10.1	27.4	46.0	
3.840201	15.5	1000.0	9.000	GND	L1	10.0	30.5	46.0	

< Fig 5. Conducted emission result >

GETEC

: GETEC-E3-14-039

### 6. Radiated Emission

## **6.1 Operating Environment**

23.6 ℃ Temperature 36.3 % R.H. Relative Humidity

### 6.2 Test Set-up

A preliminary and final measurement was at 3 m anechoic chamber.

The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane.

The turntable with EUT 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.

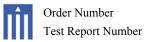
### **6.3 Measurement Uncertainty**

The measurement uncertainty was calculated in accordance with ISO "Guide to the expression of uncertainty in measurement".

The measurement uncertainty was given with a confidence of 95 %.

Test Items(Anechoic Chamber)	Uncertainty	Remark
Radiated emission (30 MHz ~ 300 MHz, 3 m, Vertical)	± 4.47 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (30 MHz ~ 300 MHz, 3 m, Horizontal)	± 4.46 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Vertical)	± 4.74 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (300 MHz ~ 1 000 MHz, 3 m, Horizontal)	± 4.70 dB	Confidence level of approximately 95 % ( $k = 2$ )
Radiated emission (1 000 MHz ~ 6 000 MHz, 3 m)	± 5.28 dB	Confidence level of approximately 95 % $(k = 2)$
Radiated emission (6 000 MHz ~ 18 000 MHz, 3 m)	± 5.37 dB	Confidence level of approximately 95 % ( $k = 2$ )





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## 6.4 Limit

Frequency (MHz)	FCC Limit @ 3 m. dB $\mu$ V/m	CISPR Limit @ 10 m. dB $\mu$ V/m
30 ~ 88	40.0	30.0
88 ~ 216	43.5	30.0
216 ~ 230	46.0	30.0
230 ~ 960	46.0	37.0
960 ~ 1 000	54.0	37.0
> 1 000	54.0	No Specified limit

6.5 Test Equipment used

Model Name	Manufacturer	Description	Serial Number	<b>Due to Calibration</b>
■ - ESIB26	Rohde & Schwar	z EMI Test Receiver	830482/010	05. 02. 2014
■ - VULB9160	Schwarzbeck	Broadband Test Antenna	3193	03. 25. 2016
■ - BBHA9120D	Schwarzbeck	Horn ANT	207	03. 06. 2016
■ - MCU066	maturo GmbH	Position Controller	1390306	N/A
■ - TT2.5SI	maturo GmbH	Turntable	1390307	N/A
■ - AM 4.0	maturo GmbH	Antenna Mast	1390308	N/A
■ - AFS 44 00101800-25-10P-44	MITEQ	Preamplifier	1258943	01. 15. 2015

## 6.6 Test data for Radiated Emission

-. Test Date :April 16, 2014

-. Measurement Distance : 3 m

-. Note : The highest frequency of the internal source of the EUT is 600 MHz

Therefore the measurement was made up to 5  $000 \ MHz$ 

-. Measurement

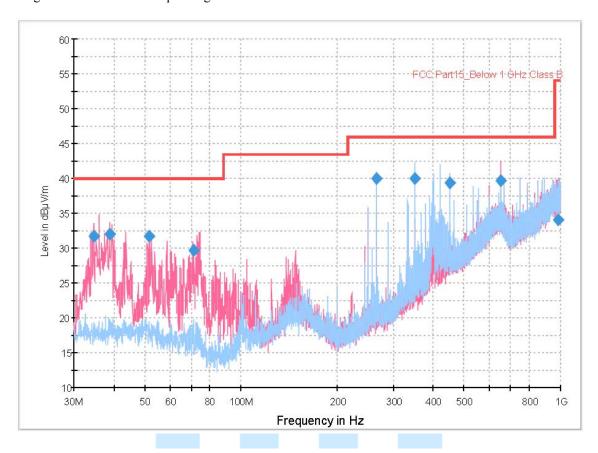
Frequency range	30 MHz ~ 1 GHz	Above 1 GHz		
Detector mode	Quasi peak	Peak / Average		
Resolution bandwidth	120 kHz	1 MHz		

EUT Type: CENTRAL PROCESSOR FCC ID.: OZ5URCCP2



: Number : GETEC-C1-14-179 Report Number : GETEC-E3-14-039

# Operating condition: Maximum operating condition



# Final Result 1

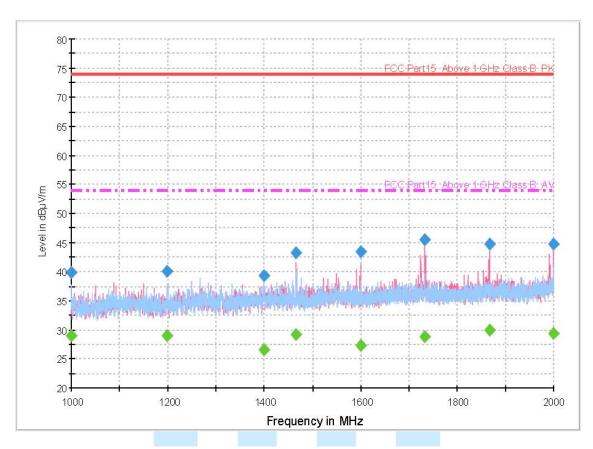
i ilai Nesait i									
Frequency	QuasiPeak	Meas.	Bandwidth	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	Time	(kHz)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
, ,	, , ,	(ms)	, ,	, ,		, )	Lì í	` ´	` ' '
34.637500	31.7	1000.0	120.000	100.0	٧	30.0	11.5	8.3	40.0
38.922500	32.1	1000.0	120.000	110.0	V	193.0	11.8	7.9	40.0
51.804375	31.7	1000.0	120.000	100.0	V	166.0	12.4	8.3	40.0
71.412500	29.6	1000.0	120.000	100.0	٧	186.0	10.2	10.4	40.0
266.659375	39.9	1000.0	120.000	100.0	H	331.0	13.7	6.1	46.0
350.018750	40.0	1000.0	120.000	100.0	Н	41.0	17.6	6.0	46.0
449.990000	39.3	1000.0	120.000	100.0	Н	211.0	22.2	6.7	46.0
649.991875	39.7	1000.0	120.000	100.0	٧	52.0	27.0	6.3	46.0
988.166875	34.1	1000.0	120.000	180.0	Н	250.0	28.6	19.9	54.0

< Fig 6. Radiated emission result (30 MHz  $\sim 1~000~\text{MHz}) >$ 



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• Operating condition: Maximum operating condition



# **Final Result 1**

Frequency	MaxPeak	Meas.	Bandwidth	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	Time	(kHz)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
		(ms)							
1000.000000	39.9	1000.0	1000.000	100.0	Н	286.0	-10.8	34.1	74.0
1199.722000	40.0	1000.0	1000.000	121.0	٧	131.0	-9.6	34.0	74.0
1399.522000	39.4	1000.0	1000.000	100.0	Н	66.0	-8.6	34.6	74.0
1466.394000	43.2	1000.0	1000.000	100.0	٧	88.0	-8.5	30.8	74.0
1599.565500	43.4	1000.0	1000.000	200.0	٧	253.0	-7.9	30.6	74.0
1733.606000	45.5	1000.0	1000.000	100.0	٧	30.0	-7.2	28.5	74.0
1866.481000	44.8	1000.0	1000.000	196.0	٧	15.0	-6.6	29.2	74.0
2000.000000	44.7	1000.0	1000.000	185.0	٧	15.0	-6.1	29.3	74.0

# Final Result 2

Frequency	CAverage	Meas.	Bandwidth	Height	Polarization	Azimuth	Corr.	Margin	Limit
(MHz)	(dBµV/m)	Time	(kHz)	(cm)		(deg)	(dB)	(dB)	(dBµV/m)
, ,		(ms)	, ,	, ,		, )	, ,	, ,	
1000.000000	29.0	1000.0	1000.000	100.0	Н	286.0	-10.8	25.0	54.0
1199.722000	29.1	1000.0	1000.000	121.0	٧	131.0	-9.6	24.9	54.0
1399.522000	26.5	1000.0	1000.000	100.0	Н	66.0	-8.6	27.5	54.0
1466.394000	29.3	1000.0	1000.000	100.0	٧	88.0	-8.5	24.7	54.0
1599.565500	27.3	1000.0	1000.000	200.0	٧	253.0	-7.9	26.7	54.0
1733.606000	28.8	1000.0	1000.000	100.0	٧	30.0	-7.2	25.2	54.0
1866.481000	30.0	1000.0	1000.000	196.0	٧	15.0	-6.6	24.0	54.0
2000.000000	29.3	1000.0	1000.000	185.0	٧	15.0	-6.1	24.7	54.0

< Fig 7. Radiated emission result (1 000 MHz  $\sim$  2 000 MHz) >



# 7. Sample Calculations

$$\begin{split} dB\mu V &= 20\ Log\ _{10}(\mu V/m)\\ dB\mu V &= dBm + 107\\ \mu V &= 10\ ^{(dB\mu V/20)} \end{split}$$

## **7.1 Example 1:**

### ■ 20.3 MHz

Class B Limit  $= 250 \; \mu V = 48 \; dB \mu V$ 

Reading =  $39.2 dB\mu V$ 

 $10^{(39.2dB\mu V/20)} = 91.2 \mu V$ 

Margin =  $48 \text{ dB}\mu\text{V} - 39.2 \text{ dB}\mu\text{V}$ 

= 8.8 dB

# **7.2 Example 2:**

## ■ 66.7 MHz

Class B Limit =  $100 \mu V/m = 40.0 dB\mu V/m$ 

Reading =  $31.0 \text{ dB}\mu\text{V}$ 

Antenna Factor + Cable Loss = 5.8 dB

Total =  $36.8 \text{ dB}\mu\text{V/m}$ 

 $Margin = 40.0 dB\mu V/m - 36.8 dB\mu V/m$ 

= 3.2 dB

## 8. Recommendation & Conclusion

The data collected shows that the **OHSUNG ELECTRONICS CO., LTD.. CENTRAL PROCESSOR** (**Model Name: CP-2**) was complies with §15.107 and 15.109 of the FCC Rules.

- The end -

