

# FCC 47 CFR PART 15 SUBPART B TEST REPORT

Test Report No. : OT-23N-RED-015  
Reception No. : 2308002541  
Applicant : K.C. LTD.  
Address : 165, Mieumsandan 3-ro, Gangseo-gu, Busan, Korea 46744  
Manufacturer : K.C. LTD.  
Address : 165, Mieumsandan 3-ro, Gangseo-gu, Busan, Korea 46744  
Use of Report : FCC Supplier's Declaration of Conformity  
Type of Equipment : CATHODIC PROTECTION RECTIFIER  
Model Name : ICCP(K1PAR3020V-260A)  
Multiple Model Name : N/A  
FCC ID : 2BDFLKPCS231101  
Serial number : -  
Total page of Report : 42 pages (including this page)  
Date of Incoming : October 25, 2023  
Test Period : October 25, 2023 ~ October 30, 2023  
Date of Issuing : November 1, 2023

## SUMMARY

The equipment complies with the requirement of

ANSI C63.4a: 2017 / FCC Part 15 Subpart B (CLASS B Digital devices & peripherals)

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

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

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.

Reviewed by:

Sang-Hyun, Jeong / Senior Engineer  
ONETECH Corp.

Approved by:

Seung-Hyun, Park / Senior Manager  
ONETECH Corp.

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## Revision History

Rev. No.	Issued Report No.	Issued Date	Revisions	Section Effected
0	OT-23N-RED-015	November 01, 2023	Initial Release	All

\* Please contact us (e-mail: [info@onetech.co.kr](mailto:info@onetech.co.kr)) for verification of this test report.

## 1. APPLICANT AND MANUFACTURER INFORMATION

- Applicant            K.C. LTD.
- Address            165, Mieumsandan 3-ro, Gangseo-gu, Busan, Korea 46744
- Manufacturer       K.C. LTD.
- Address            165, Mieumsandan 3-ro, Gangseo-gu, Busan, Korea 46744
- Factory            K.C. LTD.
- Address            165, Mieumsandan 3-ro, Gangseo-gu, Busan, Korea 46744

EQUIPMENT CLASS	CLASS B Digital devices & peripherals
E.U.T. DESCRIPTION	CATHODIC PROTECTION RECTIFIER
MEASUREMENT PROCEDURES	ANSI C63.4a: 2017
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Supplier's Declaration of Conformity (SDoC)
STANDARDS	FCC Part 15, Section 15.101 (Class B)
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	3 m Semi anechoic chamber & 10 m Semi anechoic chamber

ONETECH Corp. tested the above equipment in accordance with the requirements set forth in the above standard. The test results show that equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

## 2 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025 by Radio Research Agency as accreditation body. The Onetech Corp. is accredited for measuring devices subject to Declaration of Conformity (DOC) under Parts 15 & 18 as a Conformity Assessment Body (CAB) with designation number KR0013.

These measurement tests were conducted at Onetech Corp.

The 10 m semi anechoic chamber and conducted measurement facilities are located at

- 1) 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea
- 2) 12-5, Jinsaegol-gil 75 beon-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea



### 3. PRODUCT INFORMATION

#### 3.1 Description of EUT

The , Model ICCP(K1PAR3020V-260A) (referred to as the EUT in this report) is a CATHODIC PROTECTION RECTIFIER. Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Metal
LIST OF EACH OSC. or CRY. FREQ. (FREQ. $\geq$ 1 MHz)	30 MHz
NUMBER OF PCB LAYERS	Control Board 4Layer, Buck Converter Board 2Layer
P. C. Board name	Control Board 2PC, Buck Converter Board 12PC
ELECTRICAL RATING	Input: 690 VAC, 9.2 A, 60 Hz Output: 20 VDC, DC 130 A X 2ea, 2.6 kW X 2ea,
EXTERNAL CONNECTOR	AC IN, DC OUTPUT

#### 3.2 Model Differences

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

Model Name	Differences	Tested
None		

#### 3.3 Support Equipment

The model numbers for all the equipments that were used in the tested system is:

Description	Model	Manufacturer	Connected to
CATHODIC PROTECTION RECTIFIER	ICCP(K1PAR3020V-260A)	K.C. LTD.	-
Resistance Load	-	K.C. LTD.	CATHODIC PROTECTION RECTIFIER

### 3.4 System Configuration

DEVICE TYPE	MODEL/PART NUMBER	MANUFACTURER
CATHODIC PROTECTION RECTIFIER	ICCP(K1PAR3020V-260A)	K.C. LTD.

### 3.5 Cable Description for the EUT

Cable	Shielded	Ferrite Bead	Metal Shell	Length (m)	Connected to
AC IN	N	N		3.0	Grid
DC OUTPUT	N	N	-	1.5	Resistance Load
PE	N	N		3.0	Ground



### 3.6 Equipment Modifications

None

## 4. TEST SUMMARY

### 4.1 Test standards and results

Test Items	Applied Standards	Results
Conducted Disturbance	FCC Part 15.101	C
Radiated Disturbance	FCC Part 15.101	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

### 4.2 Test Condition

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

- The EUT was operated with normal operating
- Test Voltage: AC 690 V, 60 Hz

## 5. FINAL RESULT OF MEASUREMENT

Exploratory measurement was done in normal operation mode. And the final measurement was selected for the maximized emission level.

### 5.1 Conducted Disturbance

#### 5.1.1 Operating environment

Ambient temperature : 25.4 °C

Relative humidity : 47.3 %

#### 5.1.2 Test set-up

The EUT was placed on 0.1 m height above the reference ground plane. Other support equipment were placed on a non-conductive table, 0.8 m height above the floor. The power of EUT was fed through a 50  $\Omega$ / 50  $\mu$ H + 5  $\Omega$  LISN. The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

#### 5.1.3 Measurement uncertainty

Conducted emission, quasi-peak detection : 2.2 dB

Conducted emission, CISPR-average detection : 2.2 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor,  $k = 2$ .

#### 5.1.4 Limit

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	CISPR Average
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50
* Decreases with the logarithm of the frequency		

#### 5.1.5 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.	Interval
■	ESCI	Rohde & Schwarz	Test Receiver	101420	March 6, 2023	1Y
■	11947A	Hewlett Packard	Pulse Limiter	3107A02762	March 7, 2023	1Y
■	NNLK 8129	Rohde & Schwarz	V-LISN	436	October 16, 2023	1Y

\* S/W used in the test : Noise Terminal Voltage Measurement software / Version 2.00.0178

All test equipment used is calibrated on a regular basis.

### 5.1.6 Test data

- Test Date : October 30, 2023

- Resolution bandwidth : 9 kHz

- Frequency range : 0.15 MHz ~ 30 MHz

- Test Result : PASS

- Remarks : Margin (dB) = Limit – Level (Result)  
The Result level in below table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

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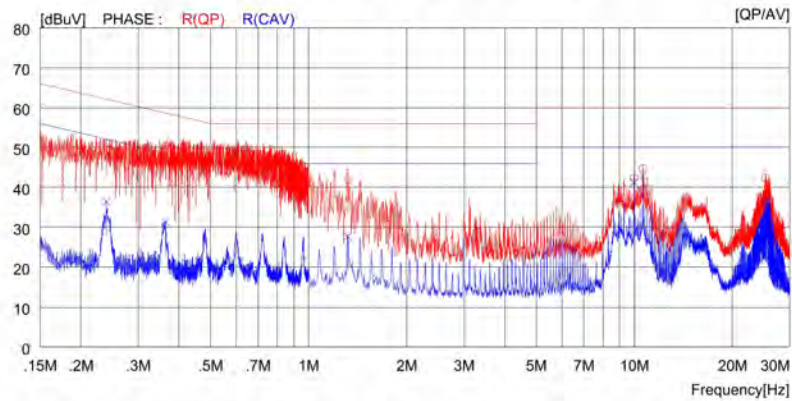
Tested by : Jung-Hoon, Kim / Engineer

Conducted Emission

2023. 10. 30

Applicant : K.C. LTD. AGR No. : A237A-113  
 Model No. : ICCP(K1PAR3020V-260A) Power Supply : 690 V, 60 Hz  
 Test Condition : R LINE Temp/Humi : 25.4 °C, 47.3 % R.H.  
 Operator : KIM JUNG HOON  
 Memo :

LIMIT : EN.KN.FCC.VCCI\_CISPR Pub.32 Class B, Quasi-Peak Limits (Mains Ports)  
 EN.KN.FCC.VCCI\_CISPR Pub.32 Class B, Average Limits (Mains Ports)



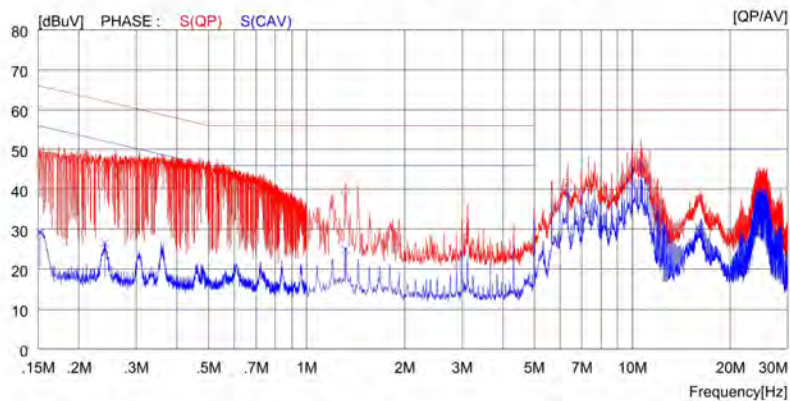
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.23900	40.6	---	10.3	50.9	---	62.1	---	11.2	---	R (QP)
2	0.36400	40.1	---	10.2	50.3	---	58.6	---	8.3	---	R (QP)
3	1.32000	31.6	---	10.2	41.8	---	56.0	---	14.2	---	R (QP)
4	9.96500	32.0	---	10.3	42.3	---	60.0	---	17.7	---	R (QP)
5	10.62000	34.4	---	10.3	44.7	---	60.0	---	15.3	---	R (QP)
6	25.32000	31.8	---	10.6	42.4	---	60.0	---	17.6	---	R (QP)
7	0.23900	---	26.2	10.3	---	36.5	---	52.1	---	15.6	R (CAV)
8	0.36400	---	21.2	10.2	---	31.4	---	48.6	---	17.2	R (CAV)
9	1.32000	---	17.5	10.2	---	27.7	---	46.0	---	18.3	R (CAV)
10	9.96500	---	31.1	10.3	---	41.4	---	50.0	---	8.6	R (CAV)
11	10.62000	---	32.7	10.3	---	43.0	---	50.0	---	7.0	R (CAV)
12	25.32000	---	26.0	10.6	---	36.6	---	50.0	---	13.4	R (CAV)

## Conducted Emission

2023. 10. 30

Applicant : K.C. LTD. AGR No. : A237A-113  
Model No. : ICCP(K1PAR3020V-260A) Power Supply : 690 V, 60 Hz  
Test Condition : S LINE Temp/Humi : 25.4 °C, 47.3 % R.H.  
Operator : KIM JUNG HOON

LIMIT : EN.KN.FCC.VCCI\_CISPR Pub.32 Class B, Quasi-Peak Limits (Mains Ports)  
EN.KN.FCC.VCCI\_CISPR Pub.32 Class B, Average Limits (Mains Ports)



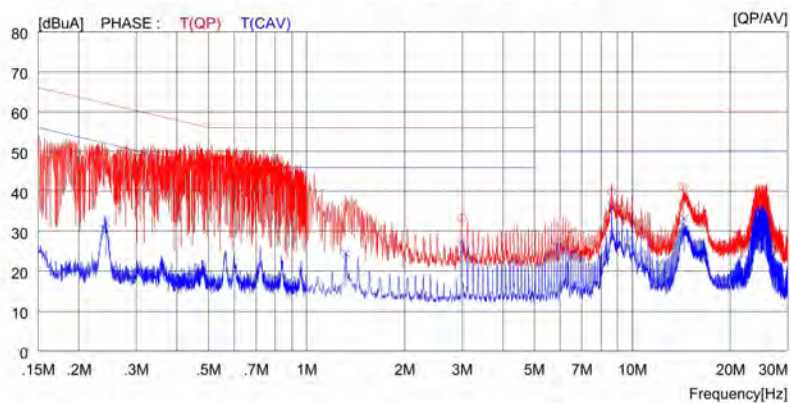
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15200	36.2	---	10.3	46.5	---	65.9	---	19.4	---	S (QP)
2	0.24000	34.7	---	10.3	45.0	---	62.1	---	17.1	---	S (QP)
3	1.31600	29.1	---	10.2	39.3	---	56.0	---	16.7	---	S (QP)
4	6.32000	31.5	---	10.2	41.7	---	60.0	---	18.3	---	S (QP)
5	9.98000	32.0	---	10.3	42.3	---	60.0	---	17.7	---	S (QP)
6	10.64000	36.5	---	10.3	46.8	---	60.0	---	13.2	---	S (QP)
7	0.15200	---	18.9	10.3	---	29.2	---	55.9	---	26.7	S (CAV)
8	0.24000	---	16.2	10.3	---	26.5	---	52.1	---	25.6	S (CAV)
9	1.31600	---	14.8	10.2	---	25.0	---	46.0	---	21.0	S (CAV)
10	6.32000	---	28.7	10.2	---	38.9	---	50.0	---	11.1	S (CAV)
11	9.98000	---	31.2	10.3	---	41.5	---	50.0	---	8.5	S (CAV)
12	10.64000	---	35.7	10.3	---	46.0	---	50.0	---	4.0	S (CAV)

Conducted Emission

2023. 10. 30

Applicant : K.C. LTD. AGR No. : A237A-113  
 Model No. : ICCP(K1PAR3020V-260A) Power Supply : 690 V, 60 Hz  
 Test Condition : T LINE Temp/Humi : 25.4 °C, 47.3 % R.H.  
 Operator : KIM JUNG HOON

LIMIT : EN.KN.FCC.VCCI\_CISPR Pub.32 Class B, Quasi-Peak Limits (Mains Ports)  
 EN.KN.FCC.VCCI\_CISPR Pub.32 Class B, Average Limits (Mains Ports)



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuA]	AV [dBuA]		QP [dBuA]	AV [dBuA]	QP [dBuA]	AV [dBuA]	QP [dBuA]	AV [dBuA]	
1	0.24000	39.2	---	10.3	49.5	---	62.1	---	12.6	---	T (QP)
2	1.31600	26.5	---	10.2	36.7	---	56.0	---	19.3	---	T (QP)
3	2.99600	23.2	---	10.2	33.4	---	56.0	---	22.6	---	T (QP)
4	8.64000	29.6	---	10.3	39.9	---	60.0	---	20.1	---	T (QP)
5	14.30000	30.9	---	10.4	41.3	---	60.0	---	18.7	---	T (QP)
6	24.50000	30.1	---	10.6	40.7	---	60.0	---	19.3	---	T (QP)
7	0.24200	---	21.9	10.3	---	32.2	---	52.0	---	19.8	T (CAV)
8	1.32000	---	14.2	10.2	---	24.4	---	46.0	---	21.6	T (CAV)
9	2.99600	---	17.0	10.2	---	27.2	---	46.0	---	18.8	T (CAV)
10	8.64000	---	25.6	10.3	---	35.9	---	50.0	---	14.1	T (CAV)
11	14.40000	---	22.8	10.4	---	33.2	---	50.0	---	16.8	T (CAV)
12	24.50000	---	24.7	10.6	---	35.3	---	50.0	---	14.7	T (CAV)

## 5.2 Radiated Disturbance

### 5.2.1 Operating environment

Ambient temperature : 21.1~22.4 °C  
Relative humidity : 51.2~52.6 %

### 5.2.2 Test set-up

The radiated emissions measurements were on the 10 m semi anechoic chamber. The EUT was placed on 0.1 m height above the reference ground plane. Other support equipment were placed on a non-conductive table, 0.8 m height above the floor.

The frequency spectrum from 30 MHz to 18 000 MHz 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.

### 5.2.3 Measurement uncertainty

Radiated emission electric field intensity, 30 MHz ~ 1 000 MHz : ±4.4 dB  
Radiated emission electric field intensity, 1 000 MHz ~ 40 000 MHz : ±5.3 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor,  $k = 2$ .

### 5.2.4 Limit

-. FCC Part 15 Subpart B

Frequency of Emission (MHz)	Resolution bandwidth	Field strength @ 3 m (dBμV/m)	
30 ~ 88 88 ~ 216 216 ~ 960 Above 960	120 kHz	Quasi-peak	
		40.0	
		43.5	
		46.0	
		54.0	
>1 000	1 MHz	Peak Limit	CISPR Average Limit
		74.0	54.0



### 5.2.5 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.	Interval
■	ESU	Rohde & Schwarz	EMI Test Receiver	100261	March 6, 2023	1Y
■	310N	Sonoma Instrument	Amplifier	392756	October 16, 2023	1Y
■	HLP-2008	TDK RF Solutions	Hybrid Antenna	131316	March 7, 2022	2Y
■	CO3000	Innco Systems GmbH	Controller	N/A	N/A	N/A
■	DT2000-2t	Innco Systems GmbH	Turn Table	N/A	N/A	N/A
■	MA-4640-XPET	Innco Systems GmbH	Antenna Master	MA4640/652/43 100318/P	N/A	N/A
■	ESW	Rohde & Schwarz	EMI Test Receiver	101851	March 7, 2023	1Y
■	PAM-118A	Com-Power	Preamplifier	18040081	March 7, 2023	1Y
■	CO3000	Innco Systems GmbH	Controller	N/A	N/A	N/A
■	DT5000	Innco Systems GmbH	Turn Table	N/A	N/A	N/A
■	MA4000-EP	Innco Systems GmbH	Antenna Master	MA4000/508	N/A	N/A
■	3115	ETS-LINDGREN	Horn Antenna	34823	August 16, 2023	1Y

\* S/W used in the test : Radiated Emission Measurement software / Version 2.00.0202  
All test equipment used is calibrated on a regular basis.

### 5.2.6 Test data

- Test Date : October 25, 2023 ~ October 27, 2023
- Resolution bandwidth : 120 kHz (30 MHz - 1 000 MHz), 1MHz (1 GHz - 18 GHz)
- Frequency range : 30 MHz ~ 18 000 MHz
- Measurement distance : 3 m
- Test Result : PASS
- Remarks : Margin (dB) = Limit – Result  
Result = Reading value + Antenna Factor + Loss – Gain  
Loss and Gain in below table means Cable Loss and Pre-amplifier gain.

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Tested by : Jung-Hoon, Kim / Engineer

## 30 MHz ~ 1 GHz

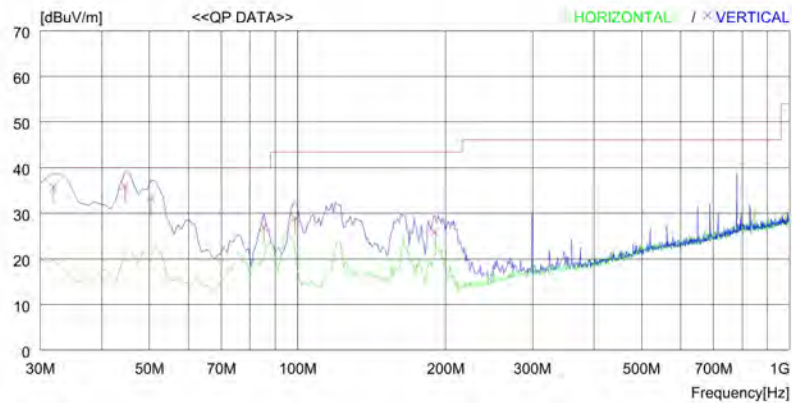
## RADIATED EMISSION

2023. 10. 25

Applicant : K.C. LTD.  
Model No. : ICCP(K1PAR3020V-260A)  
Mode : Normal Operating

AGR No. : A237A-113  
Power Supply : 690 V, 60 Hz  
Temp/Humi : 21.1 °C, 51.2 % R.H.  
Operator : KIM JUNG HOON

LIMIT : FCC Part15 Subpart.B Class B (3m)



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Vertical -----										
1	31.940	46.4	20.6	0.9	32.1	35.8	40.0	4.2	100	236
2	44.550	52.1	15.0	1.0	32.1	36.0	40.0	4.0	100	359
3	50.370	51.3	12.9	1.1	32.1	33.2	40.0	6.8	100	359
4	85.290	44.3	13.4	1.3	32.0	27.0	40.0	13.0	100	201
5	98.870	44.5	15.1	1.4	32.1	28.9	43.5	14.6	100	150
6	190.050	40.1	15.9	2.0	32.1	25.9	43.5	17.6	100	115

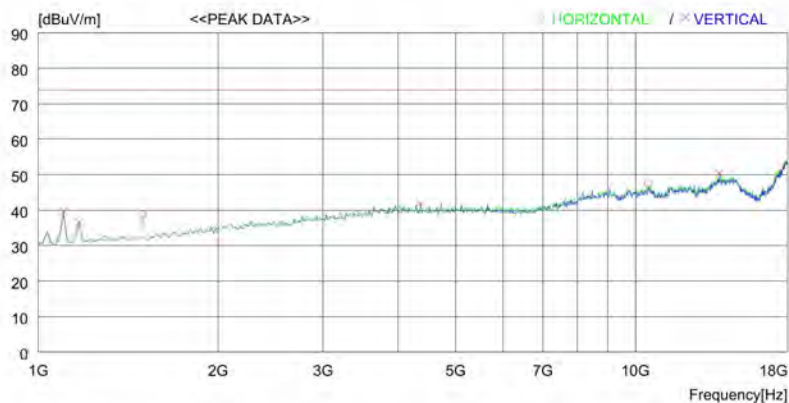
## 1 GHz ~ 18 GHz Peak

## RADIATED EMISSION

2023. 10. 27

Applicant : K.C. LTD.  
Model No. : ICCP(K1PAR3020V-260A)  
Mode : Normal Operating  
AGR No. : A237A-113  
Power Supply : 690 V, 60 Hz  
Temp/Humi : 22.4 °C, 52.6 % R.H.  
Operator : KIM JUNG HOON

LIMIT : FCC CLASS B 1GHz ~ 40 GHz\_PEAK



No.	FREQ [MHz]	READING [dBuV]	ANT PEAK FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1493.000	51.1	25.2	1.7	39.3	38.7	74.0	35.3	100	83
2	10520.000	44.8	38.0	4.9	40.3	47.4	74.0	26.6	100	0
----- Vertical -----										
3	1102.000	53.1	24.3	1.4	39.1	39.7	74.0	34.3	100	212
4	1170.000	49.9	24.5	1.4	39.2	36.6	74.0	37.4	100	185
5	4366.000	46.8	32.5	2.9	40.1	42.1	74.0	31.9	100	212
6	13835.000	44.0	41.0	5.9	40.4	50.5	74.0	23.5	100	212

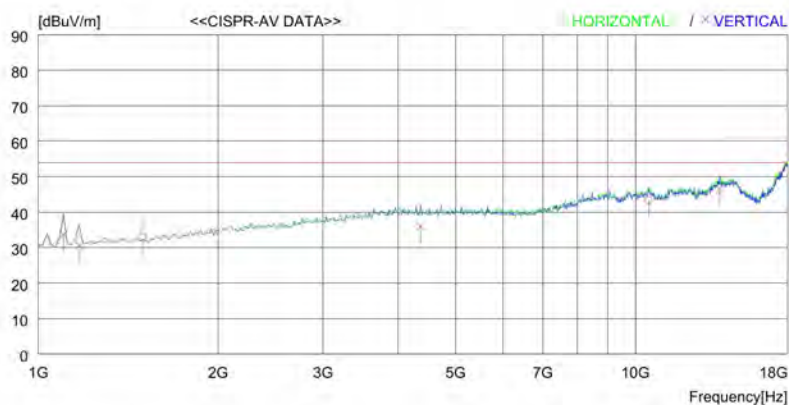
## 1 GHz ~ 18 GHz Average

## RADIATED EMISSION

2023. 10. 27

Applicant : K.C. LTD.                      AGR No. : A237A-113  
Model No. : ICCP(K1PAR3020V-260A)      Power Supply : 690 V, 60 Hz  
Mode : Normal Operating                  Temp/Humi : 22.4 °C, 52.6 % R.H.  
Operator : KIM JUNG HOON

LIMIT : FCC CLASS B 1GHz ~ 40 GHz\_AV



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m][dBuV/m]	[dB]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1493.550	45.1	25.2	1.7	39.3	32.7	54.0	21.3	100	83
2	10521.520	40.8	38.0	4.9	40.3	43.4	54.0	10.6	100	0
----- Vertical -----										
3	1102.367	47.1	24.3	1.4	39.1	33.7	54.0	20.3	100	212
4	1172.679	43.9	24.5	1.4	39.2	30.6	54.0	23.4	100	185
5	4366.170	40.8	32.5	2.9	40.1	36.1	54.0	17.9	100	212
6	13837.910	40.0	41.0	5.9	40.4	46.5	54.0	7.5	100	212

## 6. SAMPLE CALCULATIONS

$$\text{dB}\mu\text{V} = 20 \text{ Log}_{10} (\mu\text{V})$$

$$\text{Margin} = \text{Limit} - \text{Result}$$

- Example 1: 10.64000 MHz

Class B Limit = 50 dB $\mu$ V (CISPR-Average)

Reading = 35.7 dB $\mu$ V

Correction Factor = Cable Loss + Pulse Limiter  
= 10.3 dB

Total = 46.0 dB $\mu$ V

Margin = 50.0 dB $\mu$ V – 46.0 dB $\mu$ V  
= 4.0 dB

- Example 2: 44.550 MHz

Class B Limit = 40.0 dB $\mu$ V/m (Quasi-peak)

Reading = 52.1 dB $\mu$ V

Correction Factor = Antenna Factor (15 dB/m) + Cable Loss (1.0 dB) – Amp. Gain (32.1 dB)  
= -16.1 dB

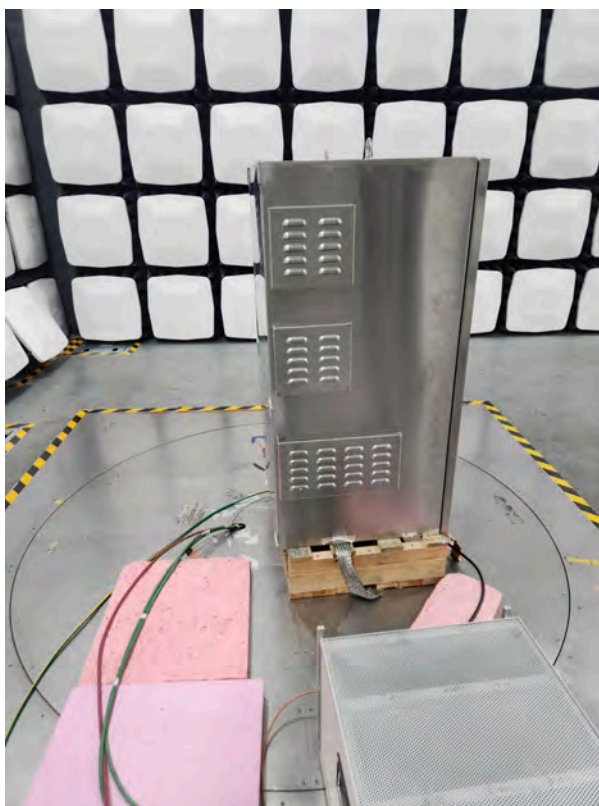
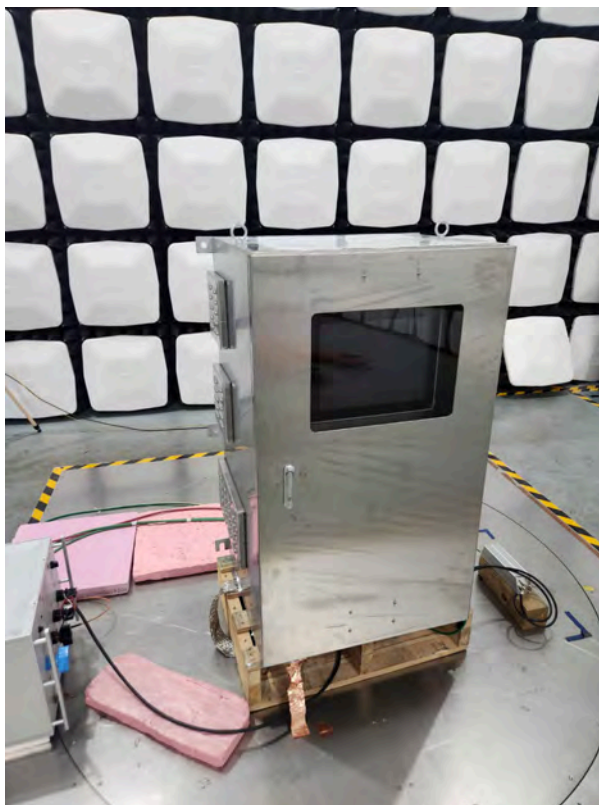
Total = 36.0 dB $\mu$ V/m

Margin = 40.0 dB $\mu$ V/m – 36.0 dB $\mu$ V/m  
= 4.0 dB

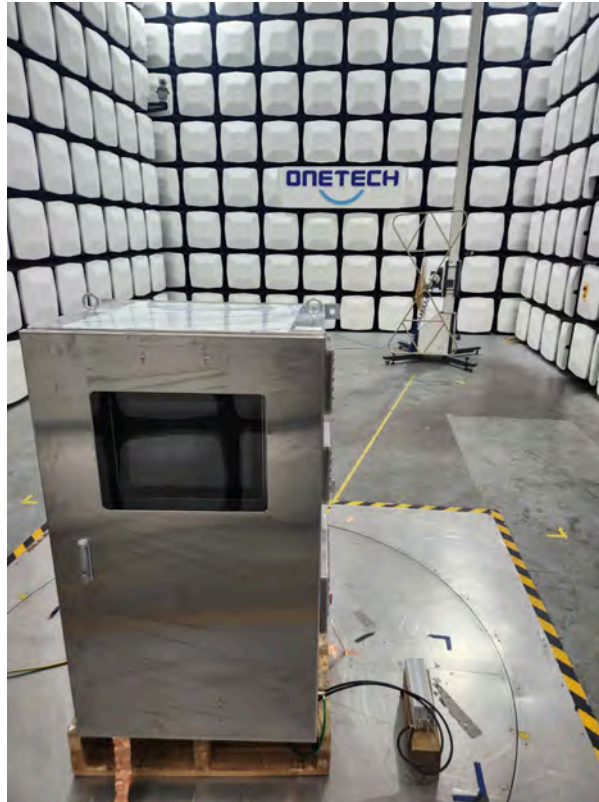
## **APPENDIX A**

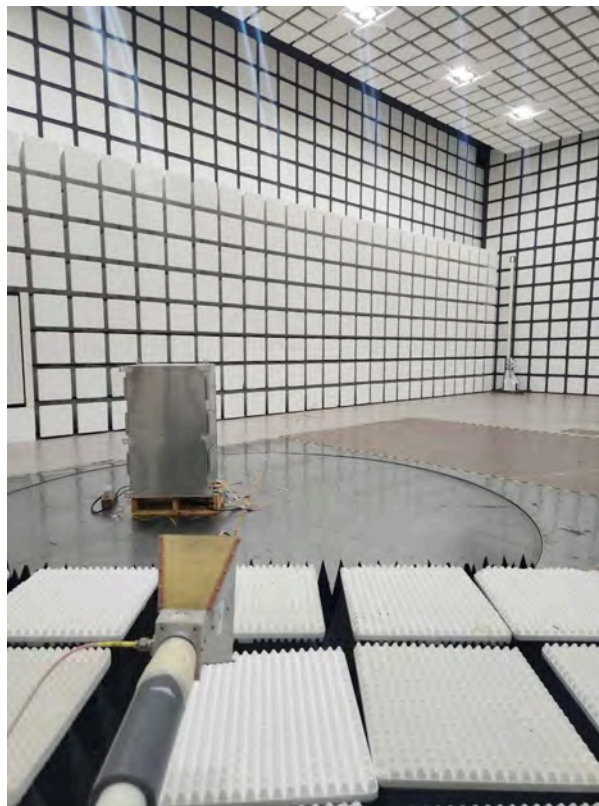
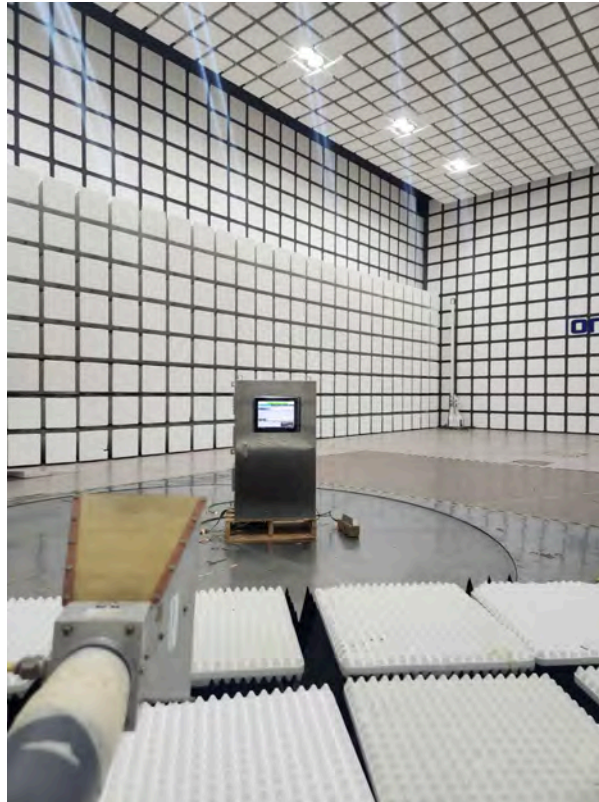
### **[TEST SET UP PHOTOGRAPHS]**

### Conducted Disturbance



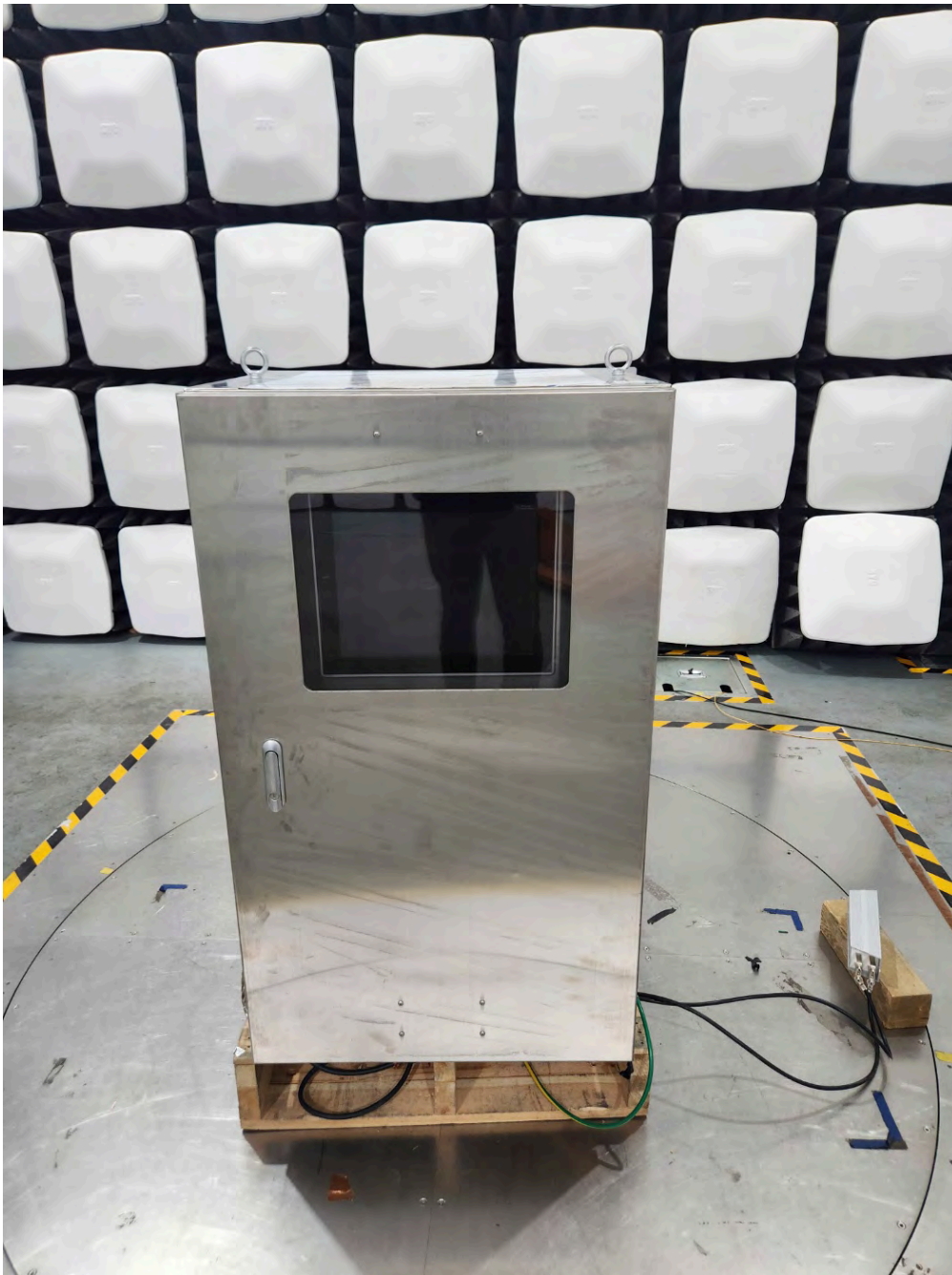


**Radiated Emission (30 MHz ~ 1 000 MHz)**

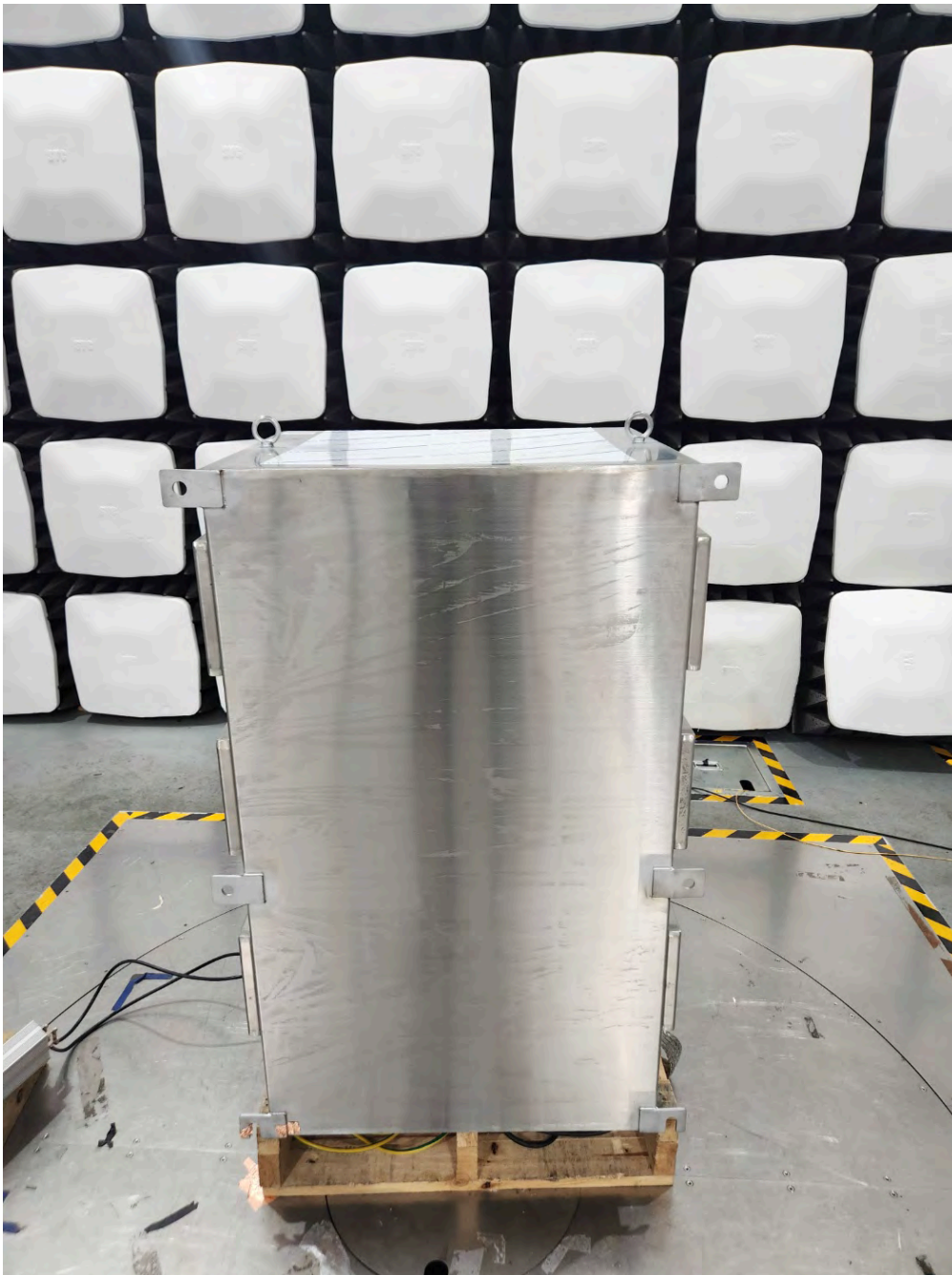
**Radiated Emission (1 GHz ~ 18 GHz)**

## **APPENDIX B**

### **[PHOTOGRAPHS OF EUT]**





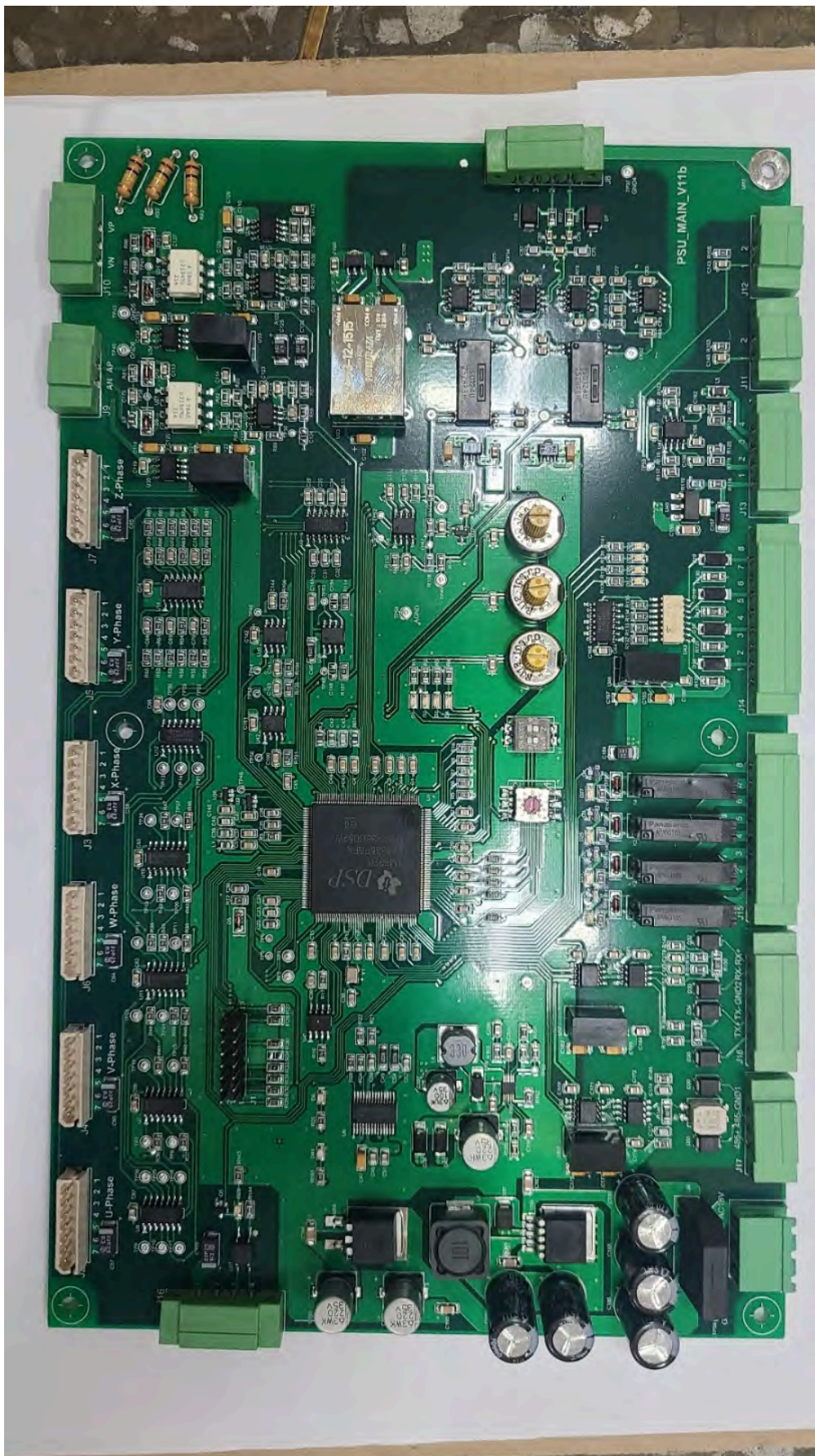


## **APPENDIX C**

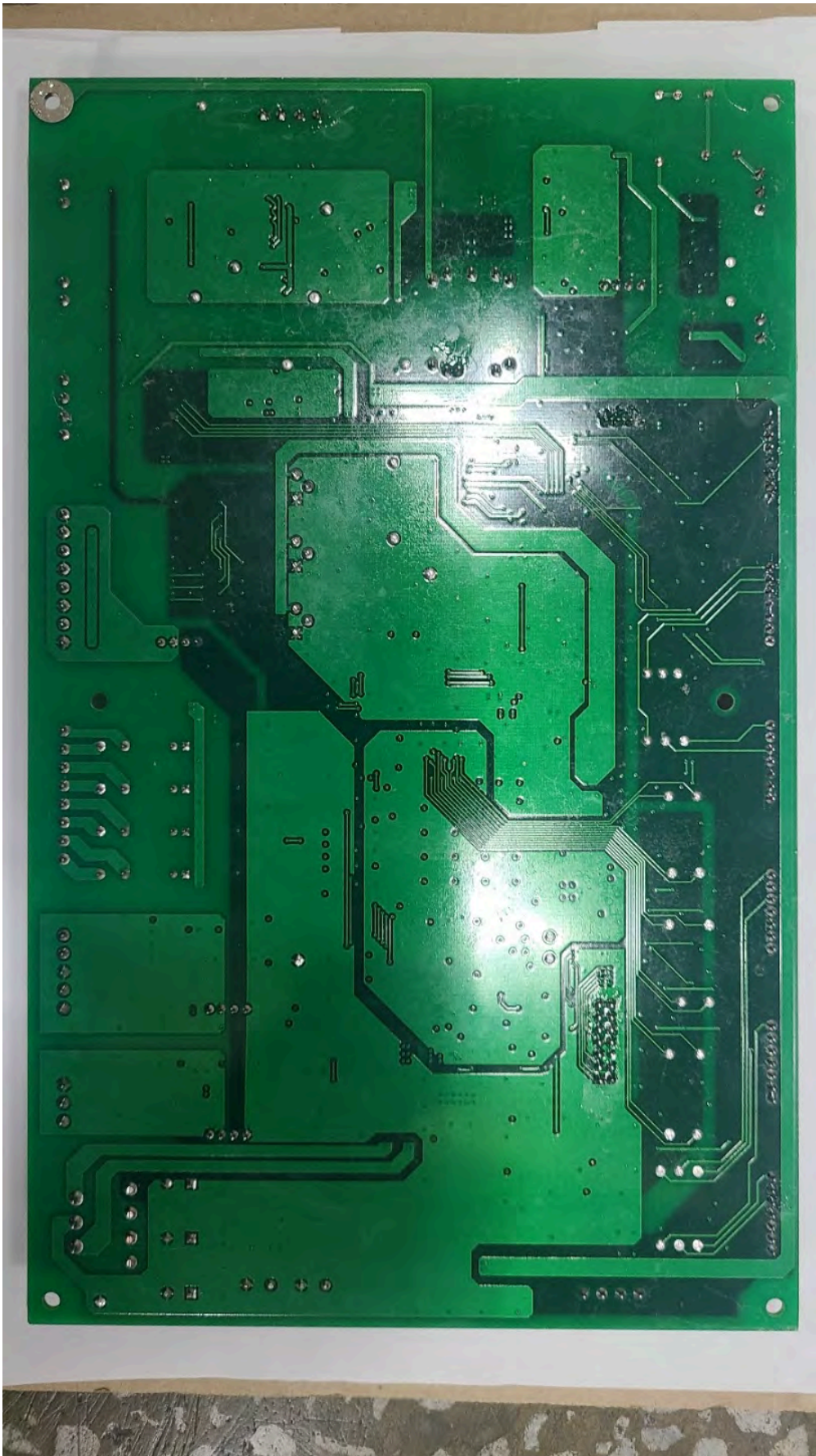
### **[INTERNAL PHOTOGRAPHS]**





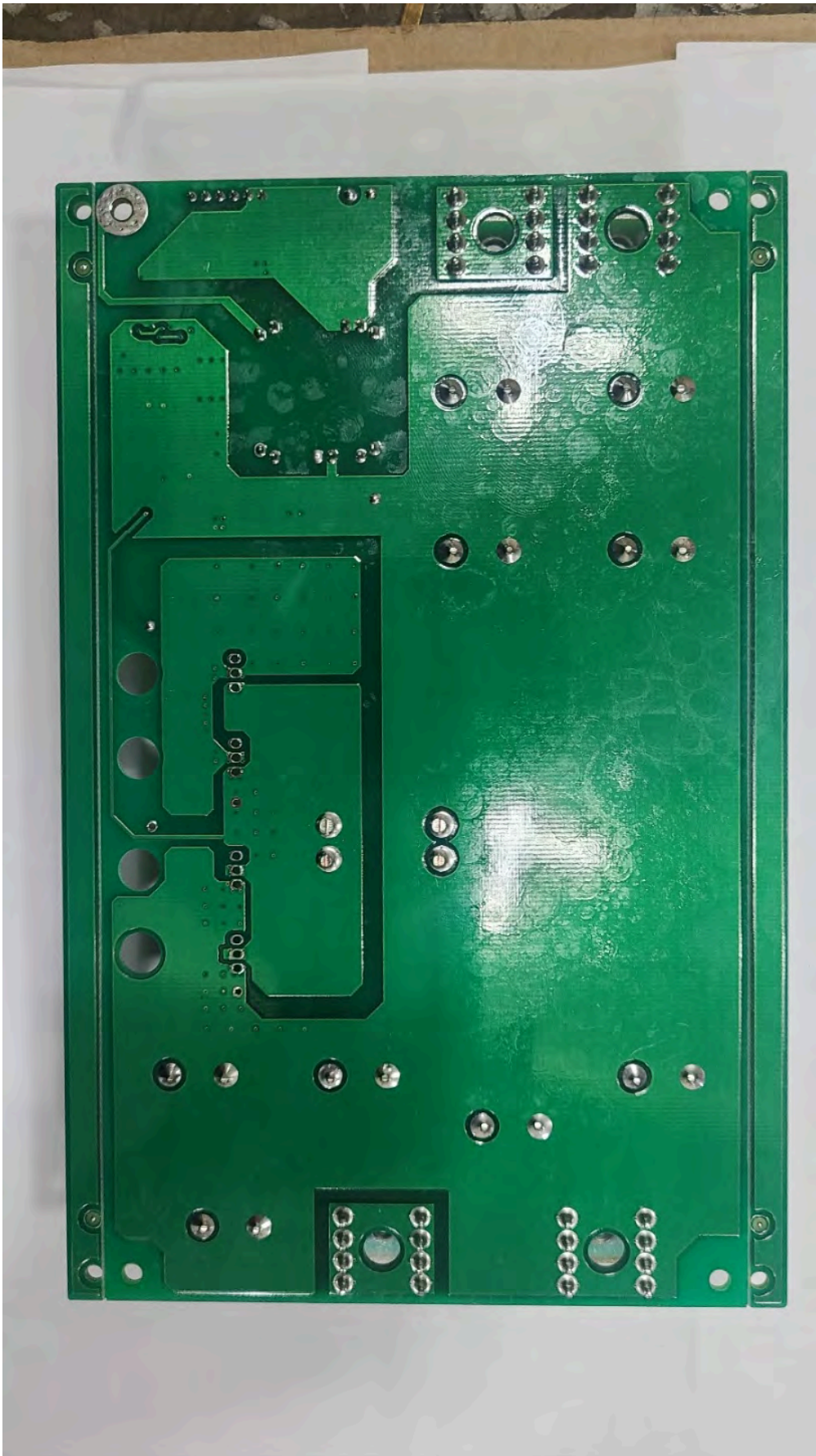












## **APPENDIX D**

### **[DECLARATION OF CONFORMITY]**

## SUPPLIER's DECLARATION OF CONFORMITY

Per FCC §2.1077 Compliance information.

**Trade Name:** K.C. LTD.

**Model Number:** ICCP(K1PAR3020V-260A)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful Interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Responsible Party:** K.C. LTD.

**Address:** 165, Mieumsandan 3-ro, Gangseo-gu, Busan,  
Korea 46744

**E-mail:** kcrkk@iccp-mgps.com

We hereby declare that the equipment bearing the trade and model number specified above was tested conforming to the applicable FCC rules under the most accurate measurement standards possible, and that the necessary steps have been taken and are in force to assure that production units equipment will continue to comply with the Commission's requirements.



K.C. LTD.

\_\_\_\_\_  
*Signature*

November 1, 2023

\_\_\_\_\_  
*Date*

**APPENDIX E**  
**[LABELLING REQUIREMENTS]**  
**[INFORMATION TO THE USER IN USER'S MANUAL]**

## LABELLING REQUIREMENTS

### FCC Part 15 SUBPART B § 15.19 Labeling requirements

(a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or Supplier's Declaration of Conformity shall be labeled as follows:

(1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90 of this chapter, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

***This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.***

(4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

(5) When the device is so small or for such use that it is impracticable to label it with the statement specified under paragraph (a) of this section in a font that is four-point or larger, and the device does not have a display that can show electronic labeling, then the information required by this paragraph shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.

### For FCC Certification

If the device is subject to Certification: (1) Section 2.925 contains information on identification of the equipment; (2) include a label bearing an FCC Identifier (FCC ID) (Section 2.926) and (3) include the appropriate compliance statement in Section 15.19(a). If the labelling area is considered too small and therefore it is impractical (smaller than the palm of the hand) to display the compliance statement, then the statement may be placed in the user manual or product packaging. However, the device must still be labelled with the FCC ID. If the device is unquestionably too small for the FCC ID to be readable (smaller than 4-6 points), the FCC ID may be placed in the user manual. However, it must be determined that the device itself is too small – the label area allocated to the FCC ID may not be reduced because of over crowded identification of other product and regulatory information. Justification for placing the FCC ID in the manual must be submitted with the initial application for certification for review and approval.

**For FCC Supplier's Declaration of Conformity (SDOC)**

(a) If a product must be tested and authorized under Supplier's Declaration of Conformity, a compliance information statement shall be supplied with the product at the time of marketing or importation, containing the following information:

(1) Identification of the product, e.g., name and model number;

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A compliance statement as applicable, e.g., for devices subject to part 15 of this chapter as specified in §15.19(a)(3) of this chapter, that the product complies with the rules; and

(3) The identification, by name, address and telephone number or Internet contact information, of the responsible party, as defined in §2.909. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

(b) If a product is assembled from modular components (e.g., enclosures, power supplies and CPU boards) that, by themselves, are authorized under a Supplier's Declaration of Conformity and/or a grant of certification, and the assembled product is also subject to authorization under Supplier's Declaration of Conformity but, in accordance with the applicable regulations, does not require additional testing, the product shall be supplied, at the time of marketing or importation, with a compliance information statement containing the following information:

(1) Identification of the assembled product, e.g., name and model number.

(2) Identification of the modular components used in the assembly. A modular component authorized under Supplier's Declaration of Conformity shall be identified as specified in paragraph (a)(1) of this section. A modular component authorized under a grant of certification shall be identified by name and model number (if applicable) along with the FCC Identifier number.

(3) A statement that the product complies with part 15 of this chapter.

(4) The identification, by name, address and telephone number or Internet contact information, of the responsible party who assembled the product from modular components, as defined in §2.909. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

(5) Copies of the compliance information statements for each modular component used in the system that is authorized under Supplier's Declaration of Conformity.

(c) The compliance information statement shall be included in the user's manual or as a separate sheet. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form. The information may be provided electronically as permitted in §2.935.



**PROPOSED LABEL**

The label included following statement will be attached on product or the compliance statement can be observed in a prominent location in the instruction manual.

*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

## INFORMATION TO THE USER IN USER'S MANUAL

**For FCC:** The instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

For a **Class A** digital device or peripheral

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**WARNING**

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For a **Class B** digital device or peripheral

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING**

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.