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TEST REPORT

MPE Test for ETPFBTRP01

APPLICANT
LG Innotek Co., Ltd.

REPORT NO.
HCT-RF-1910-FI002-R1

DATE OF ISSUE
October 21, 2019

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FCC ID
YZP-ETPFBTRP01

Applicant	LG Innotek Co., Ltd. 26, Hanamsandan 5beon-ro Gwangsan-gu, Gwangju, 506-731, South Korea
Product Name Model Name	PoE WiFi Bridge ETPFBTRP01
Date of Test	September 24, 2019 ~ October 11, 2019

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test results were applied only to the test methods required by the standard.

Tested by
Jung Ki Lim (signature)

Technical Manager
Kwon Jeong (signature)

HCT CO., LTD.
Soo Chan Lee
SooChan Lee / CEO

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	October 14, 2019	Initial Release
1	October 21, 2019	Revised the Ant gain

Engineering Statement:
The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

RF Exposure Statement

1. LIMITS

According to § 1.1310 and § 2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
0.3 - 1.34	614	1.63	*(100)	30
1.34 - 30	824/f	2.19/f	*(180/ f^2)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	.....	.....	f/1500	30
1500 - 100.000	.....	.....	1.0	30

F = frequency in MHz

* = Plane-wave equivalent power density

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3. RESULTS

3-1. DTS

Average output Power at antenna input terminal	20.00	dBm
Average output Power at antenna input terminal	100.00	mW
Prediction distance	20.000	cm
Prediction frequency	2412 ~ 2462	MHz
Antenna Gain(typical)	5.48	dBi
Antenna Gain(numeric)	3.532	-
Power density at prediction frequency(S)	0.070	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm^2

2.1091

EIRP	25.48	(dBm)
ERP	23.33	(dBm)
ERP	0.215	(W)
ERP Limit	3.00	(W)
MARGIN	11.44	(dB)