RF Exposure Evaluation declaration

Product Name : LVL50 Wireless Dongle for XBO

Model No. : 048-025T

FCC ID : X5B-048025T

Applicant : Performance Designed Products, LLC

Address : 14144 Ventura Blvd., Suite 200 Sherman Oaks, CA91423 USA

Date of Receipt : Oct. 02, 2018

Date of Declaration : Oct. 30, 2018

Report No. : 18A0026R-SAUSP03V00

Report Version : V1.0

Testing Laboratory
3023

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.
This report must not be used to claim product endorsement by TAF or any agency of the government.
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Issued Date: Oct. 30, 2018
Report No.: 18A0026R-SAUSP03V00

Product Name	LVL50 Wireless Dongle for XBO
Applicant	Performance Designed Products, LLC
Address	14144 Ventura Blvd., Suite 200 Sherman Oaks, CA91423 USA
Manufacturer	Performance Designed Products, LLC
Model No.	048-025T
FCC ID.	X5B-048025T
Trade Name	PDP
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By : Elephant Chen

(Adm. Assistant / Elephant Chen)

Tested By : wen Lee

(Engineer / Wen Lee)

Approved By :

(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	LVL50 Wireless Dongle for PS4
Model No.	048-025T
Trade Name	PDP
FCC ID	X5B-048025T
Frequency Range	2405.35 – 2477.35MHz
Channel Control	Auto
Channel Separation	2MHz
Antenna Gain	Refer to the table “Antenna List”
Channel Number	37
Type of Modulation	Pi/4 DQPSK
Antenna Type	Chip Antenna

1.2. Antenna List :

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Walsin	RFANT3216120A5T	Chip Antenna	2.12dBi for 2.4 GHz

1.3. Conducted Power Measurement (Including tolerance allowed for production unit):

Wireless mode maximum output power	Standard	Mode	BW	SISO			
				CH	PK Power (dBm)	AV Target (dBm)	AV Power (dBm)
		2.4G	DQPSK	1	5.72	3.80	3.47
				19	5.25	3.80	3.23
				37	4.67	3.80	2.57

Note: The conducted output power is refer from the DEKRA measurement.

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)*sqrt(f(GHz)≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum AV output power Peak Gain: 2.12dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	Target (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2405.35 – 2477.35	3.80	5.92	3.91	10	1.211

Note: The SAR/MPE measurement is not necessary.