

## RF Exposure Evaluation declaration

Product Name : LVL50 Wireless Dongle for PS4  
Model No. : 051-049T  
FCC ID : X5B-051049T

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. 18, 2018

Report No. : 18A0023R-SAUSP03V00

Report Version : V1.0



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.

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Issued Date: Oct. 18, 2018

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Product Name	LVL50 Wireless Dongle for PS4
Applicant	Performance Designed Products, LLC
Address	14144 Ventura Blvd., Suite 200 Sherman Oaks, CA91423 USA
Manufacturer	Performance Designed Products, LLC
Model No.	051-049T
FCC ID.	X5B-051049T
Trade Name	PDP
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By :

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Tested By :

*wen Lee*

( Engineer / Wen Lee )

Approved By :

*Vincent Lin*

( Director / Vincent Lin )

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	LVL50 Wireless Dongle for PS4
Model No.	051-049T
Trade Name	PDP
FCC ID	X5B-051049T
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	5.49
				19	4.81	3.8	2.71
				37	3.93	3.8	1.80

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 ( $\text{Power(mW)/separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$ ), 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 (mW)	Calculated Threshold Value ( $\leq 3.0$ SAR is not required)
	Target (dBm)	EIRP (dBm)	EIRP (mW)		
2405.35 – 2477.35	3.80	5.92	3.91	10	1.211

Note: The SAR/MPE measurement is not necessary.