RF Exposure Evaluation declaration

Product Name : LVL50 Wireless Stereo Headset for PS4

Model No. : 051-049R

FCC ID : X5B-051049R

Applicant : Performance Designed Products, LLC

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

Date of Receipt : Oct. 01, 2018

Date of Declaration : Oct. 22, 2018

Report No. : 18A0013R-SAUSP03V00

Issued Date: Oct. 22, 2018
Report No.: 18A0013R-SAUSP03V00

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

Documented By : Rita Huang

(Senior Adm. Specialist / Rita Huang)

Tested By : wen Lee

(Senior Engineer / Wen Lee)

Approved By :

(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	LVL50 Wireless Stereo Headset for PS4
Model No.	051-049R
Trade Name	PDP
FCC ID.	X5B-051049R
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	Printed on PCB
The device doesn't support simultaneous transmission.	

1.2. Antenna List :

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	TATUNG	048-056R (Ant 1)	Printed on PCB	5.48dBi for 2.4 GHz
2	TATUNG	048-056R (Ant 2)	Printed on PCB	2.08dBi for 2.4 GHz

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

Wireless mode maximum output power	Standard	Mode	BW	SISO-ANT 1				SISO-ANT 2			
				CH	PK Power (dBm)	AV Target (dBm)	AV Power (dBm)	CH	PK Power (dBm)	AV Target (dBm)	AV Power (dBm)
		2.4G	DQPSK	1	5.86	4	2.87	1	5.73	4	2.82
				19	5.45	4	2.54	19	5.51	4	2.50
				37	5.24	4	1.97	37	5.25	4	1.96

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,
Body SAR Test Exclusion Threshold = 10mW

1.) ANT 1:

Frequency Band (MHz)	Maximum AV output power Peak Gain: 5.48dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	Target (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2405.35 – 2477.35	4	9.48	8.87	10	2.750

2.) ANT 2:

Frequency Band (MHz)	Maximum AV output power Peak Gain: 2.08dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	Target (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2405.35 – 2477.35	4	6.08	4.06	10	1.257

Note: The SAR/MPE measurement is not necessary.