

TEST REPORT

Maximum Permissive Exposure

for

Products Name: Bluetooth Dante Wall Plate

Model No.: HDA-WPD22BAUS, HDA-WPD20BUS,
HDA-WPD20BEU, HDA-WPD22BAEU,
HDA-WPA20BEU, HDP-WPD20BUS,
HDP-WPD20BEU, HDP-WPD22BAUS,
HDP-WPD22BAEU, HDP-AUD2BEN

FCC ID: 2A6L9-HAD-WPD22BAUS

Report No.: SST2609E015

Issued Date: 2026-9-2

Issued for

Shenzhen HDCVT Technology Co., Ltd

Floor 7, Building 5, Lihe Industrial Park, Songbai Road, Nanshan District, Shenzhen, Guangdong, China

Issued by

DONGGUAN QIYANG TESTING TECHNOLOGY CO., LTD.

Room 101-1, Building 1, No. 19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

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Table of Contents

1.	BASIC INTRODUCTION	3
2.	RF EXPOSURE EVALUATION MAXIMUM PERMISSIBLE EXPOSURE (MPE)	4
2.1	INTRODUCTION	4
2.2	MPE CALCULATION.....	4

1. Basic Introduction

Applicant's name :	Shenzhen HDCVT Technology Co., Ltd	
Address :	Floor 7, Building 5, Lihe Industrial Park, Songbai Road, Nanshan District, Shenzhen, Guangdong, China	
Manufacturer's name .. :	Shenzhen HDCVT Technology Co., Ltd	
Address :	Floor 7, Building 5, Lihe Industrial Park, Songbai Road, Nanshan District, Shenzhen, Guangdong, China	
Factory name	Shenzhen HDCVT Technology Co., Ltd	
Address :	Floor 7, Building 5, Lihe Industrial Park, Songbai Road, Nanshan District, Shenzhen, Guangdong, China	
Products Name	Bluetooth Dante Wall Plate	
Model No.	HDA-WPD22BAUS, HDA-WPD20BUS, HDA-WPD20BEU, HDA-WPD22BAEU, HDA-WPA20BEU, HDP-WPD20BUS, HDP-WPD20BEU, HDP-WPD22BAUS, HDP-WPD22BAEU, HDP-AUD2BEN	
Trade Mark :	/	
Rating(s) :	12VDC powered by external power source or POE power supply	
Software version	/	
Hardware version	/	
Operation frequency :	BT/BLE: 2402MHz ~ 2480MHz	
Modulation technology :	BT: GFSK, pi/4 DQPSK, 8DPSK BLE: GFSK	
Antenna type	FPC Antenna	
Antenna gain	0.91 dBi	
Standard(s)	FCC CFR Title 47 Part 1.1307 FCC CFR Title 47 Part 2.1091 447498 D01 General RF Exposure Guidance v06	
Date of sample receipt .. :	2026-8-18	
Date of Test :	2026-8-18~2026-9-2	
Tested by (+signature) .. :	Connor Ma	
Check by (+signature) .. :	Davis Zhou	
Approved (+signature) by :	Tiger Chen	



2. RF EXPOSURE EVALUATION MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 Introduction

The limit for maximum permissible exposure(MPE), specific in §1.1310, §1.1307(b) of the FCC Rules and KDB 447498 D01 were list in below

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

The procedure used to determine the RF power density was based upon a calculation for determining compliance with the MPE requirements.

The power generated by each transmitter used in this product was initially measured by a spectrum analyzer and the powers were recorded. Through use of the Friis transmission formula and knowledge of the maximum antenna gain to be used, the power density level is calculated at a distance of 20cm.

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where,

P_d = Power Density (mW/cm²),

π = 3.1416,

P_{out} = output power to antenna (mW),

r = distance between observation point and center of the radiator (cm),

G = gain of antenna in linear scale

There is no co-location between the electric fields of any two transmitters therefore the power densities are calculated for each individual transmitter by frequency at 20cm spacing

2.2 MPE Calculation

Type	Frequency (MHz)	Antenna gain (dBi)	EIRP (dBm)	Separation (cm)	Power density (mW/cm ²)	Limit (mW/cm ²)
BT	2441	0.91	5.10	20	0.00064	1
BLE	2440	0.91	1.69	20	0.00029	1

*****End of report*****