

RF EXPOSURE Test Report

Report No.: MTi240322009-01E2

Date of issue: 2024-04-07

Applicant: Dongguan Platinum Audio Systems Co., Ltd.

Product: BASS GUITAR COMBO AMPLIFIER

Model(s): DOUBLE FOUR PLUS BG-80

FCC ID: 2ALUS-PLD04

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Test Result Certification					
Applicant:	Dongguan Platinum Audio Systems Co., Ltd.				
Address:	6/F, Section 1 Building, No. 2 East Industry Road, Songshan Lake Sci.&Tech. Industry Park, Dongguan, Guangdong 523808, P.R. China				
Manufacturer:	Dongguan Platinum Audio Systems Co., Ltd.				
Address:	6/F, Section 1 Building, No. 2 East Industry Road, Songshan Lake Sci.&Tech. Industry Park, Dongguan, Guangdong 523808, P.R. China				
Product description					
Product name:	BASS GUITAR COMBO AMPLIFIER				
Trademark:	AIRPULSE, PHIL JONES BASS, PB				
Model name:	DOUBLE FOUR PLUS BG-80				
Serial Model:	N/A				
Standards:	N/A				
Test procedure:	KDB 447498 D01 v06				
Date of Test					
Date of test:	2024-04-02 to 2024-04-07				
Test result:	Pass				

Test Engineer	:	Letter. Lan.
		(Letter Lan)
Reviewed By:	:	Dowid. Cel
		(David Lee)
Approved By:	:	leor chen
		(Leon Chen)

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RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
	(A) Limits for C	ccupational/Controlled Exp	osure		
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/	f 4.89/1	*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	
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure		
0.3-1.34	614	1.63	*100	30	
1.34-30	824/	f 2.19/1	*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

MPE Calculation Method

Friis transmission formula: Pd= (Pout*G)\ (4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm(20cm)

Pd the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

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Measurement Result

BT:

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

R=20cm

 $mW=10^{(dBm/10)}$

antenna gain Numeric=10^(dBi/10)= 10^(2.59/10)=1.82

BR+EDR:

Channe I Freq. mod (MHz)	modulation	conducted power	Tune- up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm ²)	(mW/cm
				(dBm)	(mW)	(dBi)	Numeric	(IIIVV/CITI ²)	2)
2402	GFSK	8	8±1	9	7.943	2.59	1.82	0.0029	1
2441		8.06	8±1	9	7.943	2.59	1.82	0.0029	1
2480		8.87	8±1	9	7.943	2.59	1.82	0.0029	1
2402	π/4- DQPSK	10.33	10±1	11	12.589	2.59	1.82	0.0045	1
2441		10.28	10±1	11	12.589	2.59	1.82	0.0045	1
2480		10.91	10±1	11	12.589	2.59	1.82	0.0045	1
2402	41 8DPSK	10.84	10±1	11	12.589	2.59	1.82	0.0045	1
2441		10.88	10±1	11	12.589	2.59	1.82	0.0045	1
2480		11.44	11±1	12	15.849	2.59	1.82	0.0057	1

Conclusion:

For the max result: 0.0057≤ 1.0, No SAR is required.

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