



RF EXPOSURE REPORT

Applicant	DEI Sales Inc., dba Polk Audio			
Address	5541 Fermi Court Carlsbad CA 92008 United States Of America			
Manufacturer or Supplier	Sound United, LLC			
Address	5541 Fermi Court Carlsbad, CA 9	2008, USA		
Product	MAGNIFI MAX AX SR SOUND B	AR SYSTEM		
Additional Product	MAGNIFI MAX AX SOUND BAR	SYSTEM		
Brand Name	POLK			
Model	MAGNIFI MAX AX SUBWOOFER	1		
Additional Model & Model Difference	N/A			
Date of tests	Apr. 19, 2022 ~ Jun. 22, 2022			
 ☑ KDB 447498 D0 ☑ IEEE C95.1 CONCLUSION: The 		COMPLY with the test requirement		
	ted by Lucas Chen gineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department		
Lucas				
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	
FM2203WDG0011-2	Original release	Jun. 30, 2022

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1. CERTIFICATION

PRODUCT:	MAGNIFI MAX AX SR SOUND BAR SYSTEM
ADDITIONAL PRODUCT:	MAGNIFI MAX AX SOUND BAR SYSTEM
BRAND NAME:	POLK
MODEL NO.:	MAGNIFI MAX AX SUBWOOFER
ADDITIONAL MODEL:	N/A
FCC ID:	WLQMAXAXSW
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	DEI Sales Inc., dba Polk Audio
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)			AVERAGE TIME (minutes)			
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500 F/1500 30						
1500-100,000			1.0	30		

F = Frequency in MHz

3. MPE CALCULATION FORMULA

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type	
Wireless 5.1GHz+5.8GHz	2.5	PCB Antenna	

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
Wireless 5.1GHz+5.8GHz	5160~5240MHz 5735~5840MHz	10	+-2	8	12

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
Wireless 5.1GHz+5.8GHz	5240	10.91

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
Wireless 5.1GHz+5.8GHz	12	2.5	20	0.005607	1.0

CONCLUSION: Pass

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