

RF Exposure Evaluation

FCC ID: 2AFSGHX-P270

1. Client Information

Applicant : Dongguan Jin wen hua digital technology Co., LTD.
Address : NO.1 Hua Da Road, Long Bei Ling Viliage, Tangxia Town, Dongguan City, Guangdong, China
Manufacturer : Dongguan Jin wen hua digital technology Co., LTD.
Address : NO.1 Hua Da Road, Long Bei Ling Viliage, Tangxia Town, Dongguan City, Guangdong, China

2. General Description of EUT

EUT Name	:	Daze speaker	
Models No.	:	HX-P270	
Model difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	Bluetooth: -10.0 dBm(GFSK)
		Antenna Gain:	2.1 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V Li-ion Battery.	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR}$$

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2.

Calculation:

Test separation: 5mm					
Bluetooth Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-10.00	± 0.5	0.112	0.035	3.0
2.441	-10.86	± 0.5	0.092	0.029	3.0
2.480	-11.65	± 0.5	0.077	0.024	3.0
Bluetooth Mode ($\pi/4$ -DQPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-11.34	± 0.5	0.082	0.026	3.0
2.441	-12.07	± 0.5	0.070	0.022	3.0
2.480	-12.85	± 0.5	0.058	0.018	3.0
Bluetooth Mode (8-DPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-11.63	± 0.5	0.077	0.024	3.0
2.441	-12.36	± 0.5	0.065	0.020	3.0
2.480	-13.20	± 0.5	0.054	0.017	3.0

So standalone SAR measurements are not required.