

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:

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

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

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.