

RF Exposure Evaluation

FCC ID: 2ALM4-PUSHEEN

1. Client Information

Applicant : Culturefly LLC
Address : 20 west 33rd street, 9th Floor, New York NY 10001
Manufacturer : Shenzhen WFB creative design co.,Ltd.
Address : 215# Fumin Road, Longxi, Longgang District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Bluetooth Loudspeaker	
Models No.	:	Pusheen	
Model Difference	:	N/A	
Product Description	:	Operation Frequency:	Bluetooth V2.1+EDR: 2402~2480 MHz
		Number of Channel:	Bluetooth: 79 Channels See Note 2
		Max Peak Output Power:	Bluetooth: -1.202dBm(π /4-DQPSK)
		Antenna Gain:	-0.68 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps)
Power Supply	:	DC power by USB cable. DC power by Li-ion battery.	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V by 1200mAh 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 v06.

- (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:

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

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $[\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0$ 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 (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-2.501	-2±1	-1	0.794	0.246	3.0
2.441	-3.207	-3±1	-2	0.631	0.197	3.0
2.480	-4.457	-4±1	-3	0.501	0.158	3.0
Bluetooth Mode (π /4-DQPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-1.202	-1±1	0	1.000	0.310	3.0
2.441	-1.930	-1±1	0	1.000	0.312	3.0
2.480	-3.231	-3±1	-2	0.501	0.158	3.0

So standalone SAR measurements are not required.

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