RF Exposure Evaluation

FCC ID: PMJTX2

1. Client Information

Applicant : Amphony Corp.

Address : 1006 S. Raven Rd., Shorwood, IL 60432, USA

Manufacturer : Suzhou Feiye Electronics

Address : No. 18 Xinzhong Rd., Wuzhong District, Suzhou, China

2. General Description of EUT

EUT Name	:	Audio Transmitter	
Models No.	:	TX2	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	8-DPSK: 3.025dBm (Conducted Power)
		Antenna Gain:	0 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from AC/DC adapter	
Power Rating	:	Input: 100~240V, 50/60Hz, 0.3A Output: 7.5V,1000mA	
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.

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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:

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

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

2.

Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	1.806	0	±1	1.908	0.591	**3.0**
2.441	2.515	0	±1	2.246	0.702	**3.0**
2.480	3.001	0	±1	2.512	0.791	**3.0**
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	1.761	0	±1	1.888	0.585	**3.0**
2.441	2.436	0	±1	2.206	0.689	**3.0**
2.480	3.025	0	±1	2.526	0.796	**3.0**

So standalone SAR measurements are not required.