

RF Exposure Evaluation

FCC ID: 2AOVP-YM-550BT

1. Client Information

Applicant : DongGuan Enmey Electronics Co.,Limited
Address : Kanglianda industrial area,YanWo Village,ShiPai Town,
DongGuan City, GuangDong Province, China
Manufacturer : DongGuan Enmey Electronics Co.,Limited
Address : Kanglianda industrial area,YanWo Village,ShiPai Town,
DongGuan City, GuangDong Province, China

2. General Description of EUT

EUT Name	:	Bluetooth Headset	
Models No.	:	YM-550BT, YM-520BT, YM-530BT, A8, A9, A10, A11, S8, S9	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only appearance and model name are different.	
Product Description	:	Operation Frequency:	Bluetooth V4.1+EDR: 2402~2480 MHz
		RF Output Power:	Bluetooth: 5.752dBm(GFSK)
		Antenna Gain:	-0.61dBi PCB Antenna
Power Supply	:	DC Voltage Supply from USB Port. DC Supply by the Li-ion Battery.	
Power Rating	:	DC 5.0 V from the USB Cable. DC 3.7V by 400mAh 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:

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

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

2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.445	0 ± 1	1	1.259	0.390	3.0
2.441	4.096	4 ± 1	5	3.162	0.988	3.0
2.480	5.752	5 ± 1	6	3.981	1.254	3.0
Bluetooth Mode ($\pi/4$ -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	-1.870	-2 ± 1	-1	0.794	0.246	3.0
2.441	2.182	2 ± 1	3	1.995	0.623	3.0
2.480	3.958	3 ± 1	4	2.512	0.791	3.0
Bluetooth Mode (8-DPSK)						
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	-1.466	-1 ± 1	0	1.000	0.310	3.0
2.441	2.471	2 ± 1	3	1.995	0.623	3.0
2.480	4.180	4 ± 1	5	3.162	0.996	3.0

So standalone SAR measurements are not required.

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