

RF Exposure Evaluation

FCC ID: 2AGGR-B9

1. Client Information

Applicant : Shenzhen Rivers Technology Co.,Limited
Address : A#1611, Zhantao Technology Building, Longhua New District, Shenzhen, China
Manufacturer : Shenzhen Rivers Technology Co.,Limited
Address : A#1611, Zhantao Technology Building, Longhua New District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Bluetooth Glass Keyboard	
Models No.	:	B9	
Brand Name	:	Bastron	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	Bluetooth: 1.17 dBm(GFSK)
		Antenna Gain:	2 dBi PCB Antenna
		Modulation Type:	GFSK (1 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 2*1.92Wh 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:

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

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

- 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	1.17	± 0.5	1.469	0.455	3.0
2.441	0.64	± 0.5	1.300	0.406	3.0
2.480	-0.20	± 0.5	1.072	0.337	3.0

So standalone SAR measurements are not required.