

### RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Bluetooth Module	8	
Model Name	FSC-BT1026		Soc 1
FCC ID	2AMWO-FSCBT1026	GC	- C

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

#### 3. CALCULATION

#### BR/EDR:

Pt=9.643dBm=9.21mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(9.21\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}] = 2.85 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

# BLE 1M:

Pt=7.262dBm=5.32mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(5.32\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 1.67 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

## BLE 2M:

Pt=7.243dBm=5.30mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR= $(5.30 \text{mW} / 5 \text{mm}) \cdot [\sqrt{2.480 \text{GHz}}] = 1.66 < 3.0 \text{ for } 1-\text{g SAR}$  and  $\leq 7.5$  for 10-g extremity SAR.

# 4. CONCLUSION

The SAR evaluation is not required.

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