

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Wireless Speaker
Model Name	A3125
FCC ID	2AOKB-A3125

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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

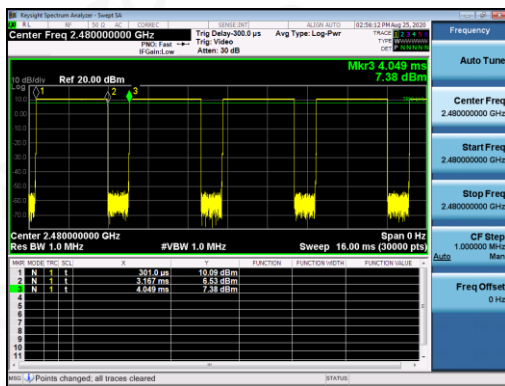
$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

Where  $f(\text{GHz})$  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:



$$\text{Duty cycle} = (3.167 - 0.301) / (4.049 - 0.301) * 100\% = 76.47\%$$

$$P_{\text{tpk}} = 10.689 \text{ dBm} = 11.72 \text{ mW}$$

$$P_{\text{avg}} = 11.72 \text{ mW} * 76.47\% = 8.96 \text{ mW}$$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (8.96 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 (\text{GHz})}] = 2.82 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE:

$$P_t = 6.444 \text{ dBm} = 4.41 \text{ mW}$$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (4.41 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 (\text{GHz})}] = 1.39 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

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#### 4. CONCLUSION

The SAR evaluation is not required.

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: [agc@agc-cert.com](mailto:agc@agc-cert.com) Web: <http://cn.agc-cert.com/>

