

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Soundcore 3
Model Name	A3117
FCC ID	2AOKB-A3117

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 ≤ 50 mm are determined by:

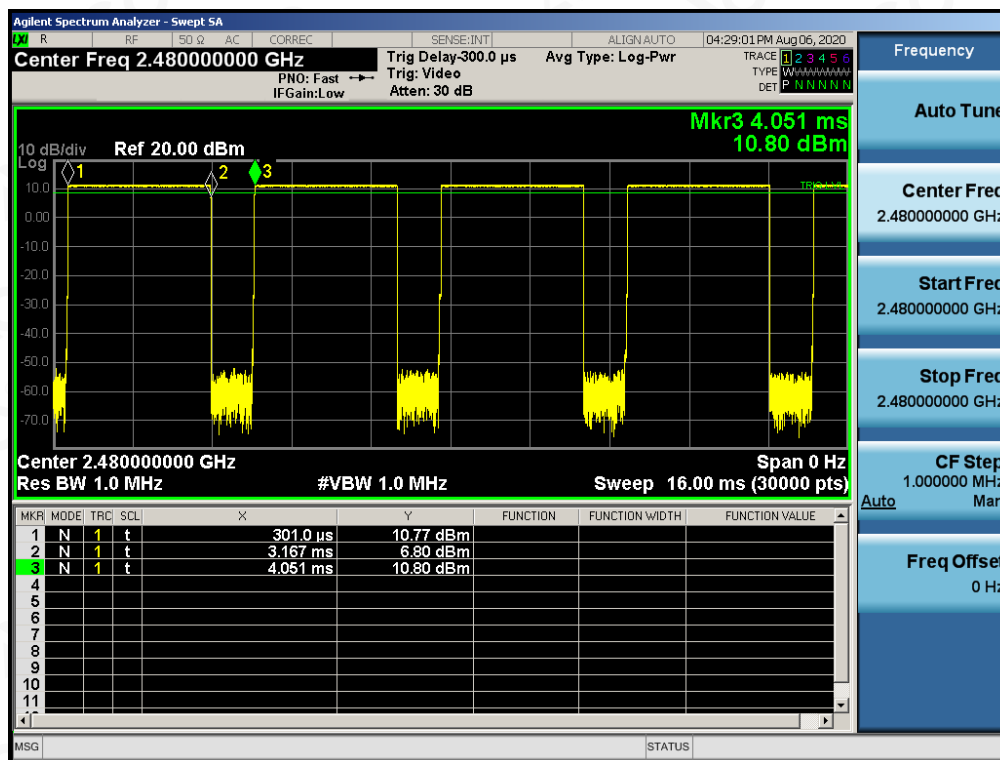
$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [1/f(\text{GHz})] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

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:



$$\text{Duty cycle} = (3.167 - 0.301) / (4.051 - 0.301) \times 100\% = 76.43\%$$

$$P_{\text{avg}} = 10.725 \text{ dBm} \times 76.43\% = 8.20 \text{ dBm} = 6.61 \text{ mW}$$

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

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BLE:

$P_t=5.451\text{dBm}=3.51\text{mW}$

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 $\text{SAR}=(3.51\text{mW}/5\text{mm})\cdot[\sqrt{2.480(\text{GHz})}]=1.10<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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