

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless Presentation TYPE-C Dongle
Model Name	SDP03C
FCC ID	2AYOR-SDP03C

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

Step a:

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:

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

Step b:

For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following :

$\{[\text{Power allowed at numeric threshold for 50 mm in step a}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW, for > 1500 MHz and ≤ 6 GHz

3. CALCULATION

§15.247.

2.4G:

$$P_t = 15.19 \text{ dBm} = 38.90 \text{ mW}$$

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

For 1-g SAR :

According to step a, in 2.412GHz, Power allowed at numeric threshold for 50 mm in step a is 96.58mW,

The 100mm exclusion thresholds are $96.58 + 500 = 596.58 \text{ mW}$

§15.407.

5G:

$$P_t = 18.09 \text{ dBm} = 64.42 \text{ mW}$$

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

For 1-g SAR :

According to step a, in 5.775GHz, Power allowed at numeric threshold for 50 mm in step a is 62.42mW,

The 100mm exclusion thresholds are $62.42+500=562.42\text{mW}$

Note:

1. Only the worst case recorded.
2. The 2.4GHz WIFI band and 5GHz band can not transmit simultaneously:
3. According to the actual normal use, the ANT distance from the human body should be at least 100mm

3. conclusion

The SAR evaluation is not required.