

## FCC ID: 2AMSOCAD-DU2000

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR 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
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is  $< 10$  mm, a distance of 10 mm is applied to determine SAR test exclusion.

BT

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.480	1.1	1.29	1±1	2.00	1.58	<10	0.24959	3.00	YES
Pi/4 DQPSK	2.480	1.11	1.29	1±1	2.00	1.58	<10	0.24959	3.00	YES
8DPSK	2.480	1.37	1.37	1±1	2.00	1.58	<10	0.24959	3.00	YES

2.4G-WIFI

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	7.79	6.01	7±1	8.00	6.31	<10	0.97992	3.00	YES

5G-WIFI

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11a	5.240	5.12	3.25	5±1	6.00	3.98	<10	0.91131	3.00	YES

5.8G-WIFI

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11a	45.000	4.71	2.96	4±1	5.00	3.16	<10	2.12132	3.00	YES

**For the Max simultaneous transmission**

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
2.4G-WIFI	0.97992	1.10471	3	Pass
BT	0.12479			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5G-WIFI	0.91131	1.0361	3	Pass
BT	0.12479			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5.8G-WIFI	2.12132	2.37091	3	Pass
BT	0.24959			

**Conclusion:**

For the max result :  $2.37091 < 3$ , the SAR testing is not required.