

FCC ID: 2AG7X-V30

Portable device

According to §47 C.F.R. and §2.1093, 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 ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg}$, for test separation distances ≤ 50 mm,

Where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR

- $f(\text{GHz})$ 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 < 5 mm, a distance of 5 mm and $x = 7.5$ for 1-g SAR is applied to determine SAR test exclusion.

BT-EDR

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.480	-1.88	0.65	-1 $\pm$ 1	0.00	1.00	<5	0.04199	0.40	YES
Pi/4 DQPSK	2.402	-0.594	0.87	-0 $\pm$ 1	1.00	1.26	<5	0.05203	0.40	YES
8DPSK	2.441	-0.359	0.92	-0 $\pm$ 1	1.00	1.26	<5	0.05245	0.40	YES

BT-BLE

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.39	1.09	0 $\pm$ 1	1.00	1.26	<5	0.05203	0.40	YES

2.4G-WIFI

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	SAR Exclusion threshold	SAR test exclusion
802.11b	2.437	4.70	2.95	5 $\pm$ 1	6.00	3.98	<5	0.16573	0.40	YES

5G-WIFI

Modulation	Channel Freq. (GHz)	Conducte d power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distanc e (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11a	5.180	5.80	3.80	5 $\pm$ 1	6.00	3.98	<5	0.24162	0.40	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
802.11n20	5.580	5.61	3.64	5±1	6.00	3.98	<5	0.25078	0.40	YES

For the Max simultaneous transmission

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
2.4G-WIFI	0.16573	0.21818	0.4	Pass
BT	0.05245			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5G-WIFI	0.24162	0.29407	0.4	Pass
BT	0.05245			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5.8G-WIFI	0.25078	0.30323	0.4	Pass
BT	0.05245			

Conclusion:

For the max result : $0.30323 < 0.4$, the SAR testing is not required.