



FCC ID: 2AG7X-V21

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 ≤ 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
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm 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	2.441	-0.54	0.88	-0±1	1.00	1.26	<5	0.39338	3.00	YES
Pi/4 DQPSK	2.402	-0.13	0.97	-0±1	1.00	1.26	<5	0.39023	3.00	YES
8DPSK	2.402	-0.3	0.93	-0±1	1.00	1.26	<5	0.39023	3.00	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	2.440	0.26	1.06	0±1	1.00	1.26	<5	0.39330	3.00	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
802.11n20	2.437	5.86	3.85	5±1	6.00	3.98	<5	1.24296	3.00	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)	Distance (mm)	Result calculatio n	SAR Exclusion threshold	SAR test exclusion
802.11AC2	5.180	5.90	3.89	5±1	6.00	3.98	<5	1.81215	3.00	YES



5.8G-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)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11n20	5.745	5.61	3.64	5±1	6.00	3.98	<5	1.90842	3.00	YES

For the Max simultaneous transmission

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
2.4G-WIFI	1.24296	2.02964	3.0	Pass
BT-EDR	0.39338			
BT-BLE	0.39330			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5G-WIFI	1.81215	2.59883	3.0	Pass
BT-EDR	0.39338			
BT-BLE	0.39330			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5.8G-WIFI	1.90842	2.6951	3.0	Pass
BT-EDR	0.39338			
BT-BLE	0.39330			

Conclusion:

For the max result : $2.6951 < 3.0$, the SAR testing is not required.