

FCC ID: 2A2V4-I540

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})/x}$ 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	2.441	-0.06	0.99	0±1	1.00	1.26	<5	0.05245	3.00	YES
Pi/4 DQPSK	2.480	-0.08	0.98	0±1	1.00	1.26	<5	0.05287	3.00	YES
8DPSK	2.441	0.12	1.03	0±1	1.00	1.26	<5	0.05245	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	2.480	0.61	1.15	0±1	1.00	1.26	<5	0.05287	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
802.119	2.462	3.76	2.38	4±1	5.00	3.16	<5	0.13232	3.00	YES

5G-WIFI

Modulation	Channel Freq. (GHz)	Conducte d power (dBm)	Conducted 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	2.59	1.82	3±1	4.00	2.51	<5	0.15245	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
802.11n40	5.755	2.61	1.82	3±1	4.00	2.51	<5	0.16069	3.00	YES

For the Max simultaneous transmission

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
2.4G-WIFI	0.13232	0.18519	3	Pass
BT	0.05287			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5G-WIFI	0.15245	0.20532	3	Pass
BT	0.05287			

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
5.8G-WIFI	0.16069	0.21356	3	Pass
BT	0.05287			

Conclusion:

For the max result : $0.21356 < 3$, the SAR testing is not required.