

FCC ID: 2A9MG-P100

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.

	Channel Freq. (GHz)	Max 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
BT	2.402	0.95	1.24	0±1	1.00	1.26	<5	0.39056	3.00	YES
	2.441					1.26	<5	0.39372	3.00	YES
	2.48					1.26	<5	0.39685	3.00	YES
BLE	2.402	-0.87	0.82	0±1	1.00	1.26	<5	0.39056	3.00	YES
	2.44					1.26	<5	0.39364	3.00	YES
	2.48					1.26	<5	0.39685	3.00	YES
WIFI 2.4G	2.412	7.78	6.00	7±1	8.00	6.31	<5	1.95996	3.00	YES
	2.442					6.31	<5	1.97211	3.00	YES
	2.462					6.31	<5	1.98017	3.00	YES
WIFI 5.1G	5.18	4.72	2.96	4±1	5.00	3.16	<5	1.43841	3.00	YES
	5.2					3.16	<5	1.44118	3.00	YES
	5.24					3.16	<5	1.44671	3.00	YES
WIFI 5.8G	5.745	5.45	3.51	5±1	6.00	3.98	<5	1.90791	3.00	YES
	5.785					3.98	<5	1.91454	3.00	YES
	5.825					3.98	<5	1.92115	3.00	YES

Conclusion:

For the max result : $1.98017 \leq \text{FCC Limit } 3.0$ for 1g SAR.

The Product unsupported at the same time to Transmitting.