

FCC ID: 2A9WA-F17

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.

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.433	1.10	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.441	1.11	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	1.026	1.27	1±1	2.00	1.58	<5	0.49918	3.00	YES
π /4DQPSK	2.402	1.249	1.33	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.273	1.34	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.829	1.52	1±1	2.00	1.58	<5	0.49918	3.00	YES
8DQPSK	2.402	1.655	1.46	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.709	1.48	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	2.309	1.70	2±1	3.00	2.00	<5	0.62843	3.00	YES

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-1.701	0.68	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.44	-1.817	0.66	-1±1	0.00	1.00	<5	0.31241	3.00	YES
	2.480	-1.41	0.72	-1±1	0.00	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result : $0.62843 \leq$ FCC Limit 3.0 for 1g SAR.