

FCC ID: 2A48M-M9

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 \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$ 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.

BLE:

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
GFSK	2.402	0.494	1.12	1 \pm 1	2.00	1.58	<5	0.49127	3.00	YES
	2.44	-0.623	0.87	-0 \pm 1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-0.784	0.83	-1 \pm 1	0.00	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result : 0.49127 \leq FCC Limit 3.0 for 1g SAR.

EDR:

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
GFSK	2.402	0.533	1.13	1 \pm 1	2.00	1.58	<5	0.49127	3.00	YES
	2.44	-0.659	0.86	-0 \pm 1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-0.847	0.82	-1 \pm 1	0.00	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result : 0.49127 \leq FCC Limit 3.0 for 1g SAR.