

FCC ID: 2AB5T-E9

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(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:

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	2.402	0.748	1.19	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	2.17	1.65	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	1.993	1.58	2±1	3	2.00	<5	0.62843	3.00	YES
π/4-DQPSK	2.402	0.76	1.19	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	2.182	1.65	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	1.994	1.58	2±1	3	2.00	<5	0.62843	3.00	YES
8-DPSK	2.402	0.759	1.19	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	2.173	1.65	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	1.961	1.57	2±1	3	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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-3.22	0.48	-3±1	-2	0.63	<5	0.19558	3.00	YES
	2.44	-1.624	0.69	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-1.362	0.73	-1±1	0	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result : 0.62843W/Kg ≤ 3.0 for 1g SAR, No SAR is required.

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Signature:

Date: 2019-12-08

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