

FCC ID: 2BUDA-D10

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.

Chip 1:

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	-1.382	0.73	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	-3.843	0.41	-3±1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-4.643	0.34	-4±1	-3.00	0.50	<5	0.15785	3.00	YES
π /4DQPSK	2.402	0.596	1.15	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-1.737	0.67	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-2.588	0.55	-2±1	-1.00	0.79	<5	0.25018	3.00	YES
8DQPSK	2.402	1.124	1.30	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	-1.311	0.74	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-2.104	0.62	-2±1	-1.00	0.79	<5	0.25018	3.00	YES

Chip 2:

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	1.809	1.52	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.962	1.57	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.521	1.42	1±1	2.00	1.58	<5	0.49918	3.00	YES
π /4DQPSK	2.402	2.596	1.82	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.568	1.81	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.166	1.65	2±1	3.00	2.00	<5	0.62843	3.00	YES
8DQPSK	2.402	2.843	1.92	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.934	1.97	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.389	1.73	2±1	3.00	2.00	<5	0.62843	3.00	YES

Conclusion:

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