

FCC ID: 2AJQ7HYDRO

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.

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	-4.72	0.34	-4±1	-3.00	0.50	<5	0.15535	3.00	YES
	2.441	-4.642	0.34	-4±1	-3.00	0.50	<5	0.15661	3.00	YES
	2.480	-4.024	0.40	-4±1	-3.00	0.50	<5	0.15785	3.00	YES
π /4DQPSK	2.402	-3.511	0.45	-3±1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-3.45	0.45	-3±1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-2.838	0.52	-2±1	-1.00	0.79	<5	0.25018	3.00	YES

Conclusion:

For the max result : $0.25018 \leq$ FCC Limit 3.0 for 1g SAR.