

FCC ID: 2ATGH-500B

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.

BR+EDR:

Antenna Type: FPCB Antenna

Antenna Gain: Right: 0.44dBi Left: 0.46dBi

For Left:

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-0.43	0.906	1±1	2	1.585	<5	0.49127	3.00	YES
	2.441	0.31	1.074	1±1	2	1.585	<5	0.49524	3.00	YES
	2.480	0.341	1.082	1±1	2	1.585	<5	0.49918	3.00	YES
$\pi/4$ -DQPSK	2.402	1.53	1.422	2.5±1	3.5	2.239	<5	0.69393	3.00	YES
	2.441	2.47	1.766	2.5±1	3.5	2.239	<5	0.69954	3.00	YES
	2.480	2.75	1.884	2.5±1	3.5	2.239	<5	0.70511	3.00	YES
8DPSK	2.402	1.82	1.521	2.5±1	3.5	2.239	<5	0.69393	3.00	YES
	2.441	2.63	1.832	2.5±1	3.5	2.239	<5	0.69954	3.00	YES
	2.480	2.82	1.914	2.5±1	3.5	2.239	<5	0.70511	3.00	YES

For Right:

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-0.67	0.857	1±1	2	1.585	<5	0.49127	3.00	YES
	2.441	0.3	1.072	1±1	2	1.585	<5	0.49524	3.00	YES
	2.480	-0.08	0.982	1±1	2	1.585	<5	0.49918	3.00	YES
$\pi/4$ -DQPSK	2.402	1.96	1.570	2.5±1	3.5	2.239	<5	0.69393	3.00	YES
	2.441	2.49	1.774	2.5±1	3.5	2.239	<5	0.69954	3.00	YES
	2.480	2.21	1.663	2.5±1	3.5	2.239	<5	0.70511	3.00	YES
8DPSK	2.402	2.14	1.637	2.5±1	3.5	2.239	<5	0.69393	3.00	YES
	2.441	2.72	1.871	2.5±1	3.5	2.239	<5	0.69954	3.00	YES
	2.480	2.41	1.742	2.5±1	3.5	2.239	<5	0.70511	3.00	YES

Conclusion:

For the max result: $0.70511 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature:

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Date: 2019-07-03

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