FCC ID: 2BG42-AQIRYSARA

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHZ)] ≤ 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.

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	0.439	1.11	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.62	1.15	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.097	0.98	0±1	1.00	1.26	<5	0.39651	3.00	YES
π/4DQPSK	2.402	1.225	1.33	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.344	1.36	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	0.627	1.16	0±1	1.00	1.26	<5	0.39651	3.00	YES
8DQPSK	2.402	1.552	1.43	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.672	1.47	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	0.956	1.25	0±1	1.00	1.26	<5	0.39651	3.00	YES

2.4GHz:

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	2.404	9.418	8.75	8.5±1	9.50	8.91	<5	2.76374	3.00	YES
	2.441	9.375	8.66	8.5±1	9.50	8.91	<5	2.78493	3.00	YES
	2.480	8.771	7.54	8±1	9.00	7.94	<5	2.50182	3.00	YES

Conclusion:

For the max result : 2.78493≤ FCC Limit 3.0 for 1g SAR.