

FCC ID: 2AMQA-MTABET8404G

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:

FPCB Antenna; Antenna Gain: 1 dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	4.87	3.069	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	4.8	3.020	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	4.51	2.825	5±1	6	3.981	<5	1.25388	3.00	YES
π/4-DQPSK	2.402	5.72	3.733	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.95	3.936	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	5.68	3.698	5±1	6	3.981	<5	1.25388	3.00	YES
8DPSK	2.402	5.83	3.828	6±1	7	5.012	<5	1.55352	3.00	YES
	2.441	6.1	4.074	6±1	7	5.012	<5	1.56608	3.00	YES
	2.480	6.35	4.315	6±1	7	5.012	<5	1.57854	3.00	YES

BLE:

FPCB Antenna; Antenna Gain: 1 dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-0.35	0.923	0±1	1	1.259	<5	0.39023	3.00	YES
	2.44	-0.04	0.991	0±1	1	1.259	<5	0.39330	3.00	YES
	2.480	-0.27	0.940	0±1	1	1.259	<5	0.39651	3.00	YES

WIFI:

FPCB Antenna; Antenna Gain: 1 dBi

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
802.11b	2.412	9.4	8.71	8.6±1	9.60	9.12	<5	2.83282	3.00	YES
	2.437	9.2	8.32	8.6±1	9.60	9.12	<5	2.84746	3.00	YES
	2.462	9.6	9.12	8.6±1	9.60	9.12	<5	2.86203	3.00	YES
802.11g	2.412	9.3	8.51	8.5±1	9.50	8.91	<5	2.76834	3.00	YES
	2.437	9.3	8.51	8.5±1	9.50	8.91	<5	2.78264	3.00	YES
	2.462	9.4	8.71	8.5±1	9.50	8.91	<5	2.79688	3.00	YES
802.11n20	2.412	9.4	8.71	8.5±1	9.50	8.91	<5	2.76834	3.00	YES
	2.437	9.4	8.71	8.5±1	9.50	8.91	<5	2.78264	3.00	YES
	2.462	9.4	8.71	8.5±1	9.50	8.91	<5	2.79688	3.00	YES
802.11n40	2.422	7.8	6.03	8±1	9.00	7.94	<5	2.47239	3.00	YES
	2.437	7.9	6.17	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.452	7.9	6.17	8±1	9.00	7.94	<5	2.48766	3.00	YES

Conclusion:

For the max result : 2.86203≤ 3.0 for 1-g SAR, No SAR is required.

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Signature:

Date: 2017-08-18

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