

**FCC ID: 2AAWC-MEGATRONII**

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  $\leq 50$  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  $\leq 7.5$  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)	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	3.046	2.02	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	2.967	1.98	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	2.958	1.98	3±1	4.00	2.51	<5	0.79114	3.00	YES
$\pi/4$ -DQPSK	2.402	2.800	1.91	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.697	1.86	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.664	1.85	2±1	3.00	2.00	<5	0.62843	3.00	YES
8DPSK	2.402	2.897	1.95	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.829	1.92	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.822	1.92	2±1	3.00	2.00	<5	0.62843	3.00	YES

BLE:

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	-4.233	0.38	-4±1	-3.00	0.50	<5	0.15535	3.00	YES
	2.44	-4.721	0.34	-4±1	-3.00	0.50	<5	0.15658	3.00	YES
	2.480	-4.735	0.34	-4±1	-3.00	0.50	<5	0.15785	3.00	YES

**WIFI:**

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	8.90	7.76	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.70	7.41	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.80	7.59	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	8.40	6.92	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.10	6.46	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	7.90	6.17	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n20	2.412	8.00	6.31	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.20	6.61	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.10	6.46	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11n40	2.422	8.20	6.61	8±1	9.00	7.94	<5	2.47239	3.00	YES
	2.437	8.00	6.31	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.452	7.90	6.17	8±1	9.00	7.94	<5	2.48766	3.00	YES

**Conclusion:**

For the max result : 2.49272W/Kg ≤ FCC Limit 3.0W/Kg for 1g SAR.

*Jason chen*

**Signature:**

**Date:** 2017-9-19

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