

FCC ID: 2AAWC-I896QW

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.01	3.17	4.5±1	5.50	3.55	<5	1.09981	3.00	YES
	2.441	4.91	3.10	4.5±1	5.50	3.55	<5	1.10870	3.00	YES
	2.480	4.38	2.74	4.5±1	5.50	3.55	<5	1.11752	3.00	YES
$\pi/4$ -DQPSK	2.402	6.35	4.32	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	6.32	4.29	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	5.76	3.77	6±1	7.00	5.01	<5	1.57854	3.00	YES
8DPSK	2.402	6.51	4.48	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	6.57	4.54	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	6.04	4.02	6±1	7.00	5.01	<5	1.57854	3.00	YES

BLE:

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.05	3.20	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.44	5.06	3.21	5±1	6.00	3.98	<5	1.24373	3.00	YES
	2.480	4.6	2.88	5±1	6.00	3.98	<5	1.25388	3.00	YES

WIFI:

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	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	8.61	7.26	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.31	6.78	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.06	6.40	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	7.82	6.05	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.66	5.83	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.66	5.83	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n20	2.412	7.27	5.33	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.28	5.35	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.19	5.24	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n40	2.422	7.03	5.05	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.37	5.46	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.01	5.02	7±1	8.00	6.31	<5	1.97601	3.00	YES

Conclusion:

For the max result : $2.49272 \leq 3.0$ for 1g SAR, No SAR is required.

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Signature:

Date: 2016-8-31

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