

FCC ID: 2AAWC-1070TPC

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	3.42	2.198	3±1	4	2.51	<5	0.77860	3.00	YES
	2.441	3.67	2.328	3±1	4	2.51	<5	0.78490	3.00	YES
	2.480	3.53	2.254	3±1	4	2.51	<5	0.79114	3.00	YES
$\pi/4$ -DQPSK	2.402	3.12	2.051	4±1	5	3.16	<5	0.98020	3.00	YES
	2.441	3.41	2.193	4±1	5	3.16	<5	0.98813	3.00	YES
	2.480	3.61	2.296	4±1	5	3.16	<5	0.99599	3.00	YES
8DPSK	2.402	3.03	2.009	4±1	5	3.16	<5	0.98020	3.00	YES
	2.441	3.07	2.028	4±1	5	3.16	<5	0.98813	3.00	YES
	2.480	3.64	2.312	4±1	5	3.16	<5	0.99599	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	-4.2	0.380	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.44	-3.93	0.405	-4±1	-3	0.50	<5	0.15658	3.00	YES
	2.480	-4.9	0.324	-4±1	-3	0.50	<5	0.15785	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	9.46	8.831	8.7±1	9.7	9.33	<5	2.89880	3.00	YES
	2.437	9.65	9.226	8.7±1	9.7	9.33	<5	2.91379	3.00	YES
	2.462	9.67	9.268	8.7±1	9.7	9.33	<5	2.92869	3.00	YES
802.11g	2.412	8.57	7.194	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.11	8.147	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.29	8.492	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n20	2.412	8.69	7.396	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.04	8.017	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.34	8.590	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n40	2.422	8.3	6.761	8±1	9	7.94	<5	2.47239	3.00	YES
	2.437	8.41	6.934	8±1	9	7.94	<5	2.48003	3.00	YES
	2.452	8.52	7.112	8±1	9	7.94	<5	2.48766	3.00	YES

Conclusion:

For the max result : $2.92869 \leq \text{FCC Limit } 3.00$

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Signature:

Date: 2016-8-31

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