

FCC ID:M7CM15QF6

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	4.729	2.97	5.5±1	6.5	4.47	<5	1.38458	3.00	YES
	2.441	5.483	3.53	5.5±1	6.5	4.47	<5	1.39577	3.00	YES
	2.480	6.004	3.98	5.5±1	6.5	4.47	<5	1.40688	3.00	YES
π/4-DQPSK	2.402	4.512	2.83	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.128	3.26	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	5.599	3.63	5±1	6	3.98	<5	1.25388	3.00	YES
8-DQPSK	2.402	4.492	2.81	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	5.351	3.43	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	5.868	3.86	5±1	6	3.98	<5	1.25388	3.00	YES
BLE	2.402	3.22	2.10	4±1	5	3.16	<5	0.98020	3.00	YES
	2.441	3.884	2.45	4±1	5	3.16	<5	0.98813	3.00	YES
	2.480	4.329	2.71	4±1	5	3.16	<5	0.99599	3.00	YES

WIFI2.4G

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	9.45	8.81	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.36	8.63	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.35	8.61	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11g	2.412	9.19	8.30	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.25	8.41	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.33	8.57	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n20	2.412	9.31	8.53	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.18	8.28	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.16	8.24	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n40	2.422	9.22	8.36	8.5±1	9.5	8.91	<5	2.77407	3.00	YES
	2.437	9.23	8.38	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.452	9.17	8.26	8.5±1	9.5	8.91	<5	2.79120	3.00	YES

Conclusion:

For the max result : $2.79688 \leq 3.0$ for 1g SAR, SAR is not required.

Alex

Signature:

Date: 2022-04-07

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