

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 V05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right]^* \left[\sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where } f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz;}$$

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. We use 5mm as separation distance to calculate.

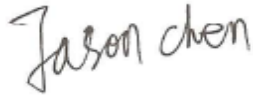
Maximum measured transmitter power:

WIFI

Modulation	Channel Freq. (MHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Result calculation	1g SAR
802.11b	2412	9.4	8.71	8.5±1	9.50	8.91	2.76259	3.00
	2437	9.3	8.51	8.5±1	9.50	8.91	2.78264	3.00
	2462	9.2	8.32	8.5±1	9.50	8.91	2.80709	3.00
802.11g	2412	9.2	8.32	8.5±1	9.50	8.91	2.76259	3.00
	2437	9.4	8.71	8.5±1	9.50	8.91	2.78493	3.00
	2462	9.1	8.13	8.5±1	9.50	8.91	2.80709	3.00
802.11n HT20	2412	8.3	6.76	8±1	9.00	7.94	2.46216	3.00
	2437	8.5	7.08	8±1	9.00	7.94	2.48207	3.00
	2462	8.5	7.08	8±1	9.00	7.94	2.50182	3.00
802.11n HT40	2422	7.3	5.37	7±1	8.00	6.31	1.98727	3.00
	2437	7.3	5.37	7±1	8.00	6.31	1.98727	3.00
	2452	7.5	5.62	7±1	8.00	6.31	1.98727	3.00

Conclusion:

For the max result : $2.80709 \leq 3.0$ for 1-g SAR, No SAR is required.

A handwritten signature in black ink that reads "Jason Chen". The letters are cursive and slightly slanted.

Signature:

Date: 2017-11-17

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