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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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]^*$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ 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;

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:

802.11b/g/n HT20/n HT40:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.412	11b	9.35	7.7dBm-9.7dBm	2.899	3.0
2.437	11b	9.03	7.7dBm-9.7dBm	2.912	3.0
2.462	11b	9.57	7.7dBm-9.7dBm	2.929	3.0
2.412	11g	8.95	7.7dBm-9.7dBm	2.899	3.0
2.437	11g	8.67	7.7dBm-9.7dBm	2.912	3.0
2.462	11g	8.73	7.7dBm-9.7dBm	2.929	3.0
2.412	11n HT20	8.29	7.7dBm-9.7dBm	2.899	3.0
2.437	11n HT20	8.51	7.7dBm-9.7dBm	2.912	3.0
2.462	11n HT20	8.42	7.7dBm-9.7dBm	2.929	3.0
2.422	11n HT40	8.04	7.7dBm-9.7dBm	2.904	3.0
2.437	11n HT40	8.09	7.7dBm-9.7dBm	2.912	3.0
2.452	11n HT40	8.11	7.7dBm-9.7dBm	2.923	3.0

BT DSS:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	1.366	0.5dBm-2.5 dBm	0.55	3.0
2.441	GFSK	0.891	0.5dBm-2.5 dBm	0.55	3.0
2.480	GFSK	1.055	0.5dBm-2.5 dBm	0.56	3.0
2.402	$\pi/4$ -DQPSK	1.922	0.5dBm-2.5 dBm	0.55	3.0
2.441	$\pi/4$ -DQPSK	1.423	0.5dBm-2.5 dBm	0.55	3.0
2.480	$\pi/4$ -DQPSK	1.693	0.5dBm-2.5 dBm	0.56	3.0
2.402	8DPSK	2.280	0.5dBm-2.5 dBm	0.55	3.0
2.441	8DPSK	1.369	0.5dBm-2.5 dBm	0.55	3.0
2.480	8DPSK	1.171	0.5dBm-2.5 dBm	0.56	3.0

BT DTS:

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power	Result calculation	1-g SAR
2.402	GFSK	2.88	1dBm-3dBm	0.62	3.0
2.440	GFSK	2.15	1dBm-3dBm	0.62	3.0
2.480	GFSK	2.64	1dBm-3dBm	0.63	3.0

Conclusion:

For the max result : $2.929 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature: 

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