

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.

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	0.92	1.24	0.5±1	1.5	1.41	<5	0.43784	3.00	YES
	2.441	0.34	1.08	0.5±1	1.5	1.41	<5	0.44138	3.00	YES
	2.480	-0.46	0.90	0±1	1	1.26	<5	0.39651	3.00	YES
$\pi/4$ -DQPSK	2.402	2.98	1.99	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.441	2.53	1.79	2.5±1	3.5	2.24	<5	0.69954	3.00	YES
	2.480	1.68	1.47	2±1	3	2.00	<5	0.62843	3.00	YES
8-DQPSK	2.402	3.37	2.17	3±1	4	2.51	<5	0.77860	3.00	YES
	2.441	2.92	1.96	3±1	4	2.51	<5	0.78490	3.00	YES
	2.480	2.17	1.65	2.5±1	3.5	2.24	<5	0.70511	3.00	YES

Conclusion:

For the max result : $0.7849 \leq 3.0$ for 1g SAR, SAR is not required.



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