

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 Left	2.402	-1.417	0.72	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.44	-1.819	0.66	-2±1	-1	0.79	<5	0.24816	3.00	YES
	2.480	-2.701	0.54	-2±1	-1	0.79	<5	0.25018	3.00	YES
GFSK Right	2.402	-1.331	0.74	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.44	-1.774	0.66	-2±1	-1	0.79	<5	0.24816	3.00	YES
	2.480	-2.728	0.53	-2±1	-1	0.79	<5	0.25018	3.00	YES
$\pi/4$ -DQPSK Left	2.402	1.077	1.28	1±1	2	1.58	<5	0.49127	3.00	YES
	2.44	1.100	1.29	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	0.234	1.06	1±1	2	1.58	<5	0.49918	3.00	YES
$\pi/4$ -DQPSK Right	2.402	1.410	1.38	1±1	2	1.58	<5	0.49127	3.00	YES
	2.44	0.902	1.23	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	-0.106	0.98	1±1	2	1.58	<5	0.49918	3.00	YES
8-DPSK Left	2.402	1.989	1.58	1±1	2	1.58	<5	0.49127	3.00	YES
	2.44	1.665	1.47	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	0.726	1.18	1±1	2	1.58	<5	0.49918	3.00	YES
8-DPSK Right	2.402	1.574	1.44	1±1	2	1.58	<5	0.49127	3.00	YES
	2.44	1.208	1.32	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	0.244	1.06	1±1	2	1.58	<5	0.49918	3.00	YES

Conclusion:

For the max result : $0.49918\text{W/Kg} \leq 3.0$ for 1g SAR, No SAR is required.



Signature:

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