

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: Left

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK Left	2.402	3.56	2.27	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.44	2.23	1.67	2.5±1	3.5	2.24	<5	0.69940	3.00	YES
	2.480	1.74	1.49	2.5±1	3.5	2.24	<5	0.70511	3.00	YES
GFSK Right	2.402	3.41	2.19	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.44	3.30	2.14	2.5±1	3.5	2.24	<5	0.69940	3.00	YES
	2.480	2.16	1.64	2.5±1	3.5	2.24	<5	0.70511	3.00	YES
$\pi/4$ -DQPSK Left	2.402	3.5	2.24	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.44	2.98	1.99	2.5±1	3.5	2.24	<5	0.69940	3.00	YES
	2.480	1.54	1.43	2.5±1	3.5	2.24	<5	0.70511	3.00	YES
$\pi/4$ -DQPSK Right	2.402	4.11	2.58	3.5±1	4.5	2.82	<5	0.87361	3.00	YES
	2.44	4.24	2.65	3.5±1	4.5	2.82	<5	0.88049	3.00	YES
	2.480	2.52	1.79	3.5±1	4.5	2.82	<5	0.88768	3.00	YES
8-DPSK Left	2.402	3.75	2.37	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.44	3.27	2.12	2.5±1	3.5	2.24	<5	0.69940	3.00	YES
	2.480	1.88	1.54	2.5±1	3.5	2.24	<5	0.70511	3.00	YES
8-DPSK Right	2.402	4.4	2.75	3.5±1	4.5	2.82	<5	0.87361	3.00	YES
	2.44	4.49	2.81	3.5±1	4.5	2.82	<5	0.88049	3.00	YES
	2.480	2.8	1.91	3.5±1	4.5	2.82	<5	0.88768	3.00	YES

BLE:Left

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK Left	2.402	1.38	1.37	1.5±1	2.5	1.78	<5	0.55121	3.00	YES
	2.44	1.97	1.57	1.5±1	2.5	1.78	<5	0.55555	3.00	YES
	2.480	1.63	1.46	1.5±1	2.5	1.78	<5	0.56009	3.00	YES
GFSK Right	2.402	2.27	1.69	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.44	3.24	2.11	2.5±1	3.5	2.24	<5	0.69940	3.00	YES
	2.480	2.77	1.89	2.5±1	3.5	2.24	<5	0.70511	3.00	YES

Conclusion:

For the max result : $0.70511\text{W/Kg} \leq 3.0$ for 1g SAR, No SAR is required.

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