

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)	Conducted power (dBm)	Conducted 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	4.477	2.80	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	4.017	2.52	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	5.072	3.22	5±1	6	3.98	<5	1.25388	3.00	YES
π/4-DQPSK	2.402	4.891	3.08	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	4.603	2.89	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	5.777	3.78	5±1	6	3.98	<5	1.25388	3.00	YES
8-DPSK	2.402	3.294	2.14	3±1	4	2.51	<5	0.77860	3.00	YES
	2.441	3.963	2.49	3±1	4	2.51	<5	0.78490	3.00	YES
	2.480	3.724	2.36	3±1	4	2.51	<5	0.79114	3.00	YES

BLE:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted 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 (1M)	2.402	-4.269	0.37	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.440	-3.098	0.49	-4±1	-3	0.50	<5	0.15658	3.00	YES
	2.480	-3.484	0.45	-4±1	-3	0.50	<5	0.15785	3.00	YES

Conclusion:

For the max result : $1.25388 \leq 3.0$ for 1g SAR, No SAR is required.



Signature:

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