

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(Module1):

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	3.381	2.18	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.441	2.996	1.99	2.5±1	3.5	2.24	<5	0.69954	3.00	YES
	2.480	1.595	1.44	2.5±1	3.5	2.24	<5	0.70511	3.00	YES
$\pi/4$ -DQPSK	2.402	5.187	3.30	6±1	7	5.01	<5	1.55352	3.00	YES
	2.441	6.529	4.50	6±1	7	5.01	<5	1.56608	3.00	YES
	2.480	5.186	3.30	6±1	7	5.01	<5	1.57854	3.00	YES
8-DQPSK	2.402	1.139	1.30	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	2.315	1.70	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	0.468	1.11	1±1	2	1.58	<5	0.49918	3.00	YES
BLE 1M	2.402	-4.086	0.39	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.44	-4.305	0.37	-4±1	-3	0.50	<5	0.15658	3.00	YES
	2.480	-3.366	0.46	-4±1	-3	0.50	<5	0.15785	3.00	YES
BLE 2M	2.402	-4.053	0.39	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.44	-4.195	0.38	-4±1	-3	0.50	<5	0.15658	3.00	YES
	2.480	-6.401	0.23	-6±1	-5	0.32	<5	0.09960	3.00	YES

BT(Module2):

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	-0.471	0.90	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	-2.202	0.60	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-1.841	0.65	-2±1	-1	0.79	<5	0.25018	3.00	YES
$\pi/4$ -DQPSK	2.402	1.594	1.44	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	-0.091	0.98	0±1	1	1.26	<5	0.39338	3.00	YES
	2.480	0.334	1.08	0±1	1	1.26	<5	0.39651	3.00	YES
8-DQPSK	2.402	2.276	1.69	1.5±1	2.5	1.78	<5	0.55121	3.00	YES
	2.441	0.506	1.12	1.5±1	2.5	1.78	<5	0.55567	3.00	YES
	2.480	2.607	1.82	2±1	3	2.00	<5	0.62843	3.00	YES
BLE 1M	2.402	2.552	1.80	2±1	3	2.00	<5	0.61847	3.00	YES
	2.44	1.168	1.31	2±1	3	2.00	<5	0.62334	3.00	YES
	2.480	1.815	1.52	2±1	3	2.00	<5	0.62843	3.00	YES
BLE 2M	2.402	2.801	1.91	2±1	3	2.00	<5	0.61847	3.00	YES
	2.44	1.329	1.36	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	1.777	1.51	1±1	2	1.58	<5	0.49918	3.00	YES

Conclusion:

For the max result : $1.57854 \leq 3.0$ for 1g SAR, SAR is not required.

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