

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  $\leq 7.5$  for 10-g extremity SAR, where:

- f(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:

Test Mode	Channel Frequency (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	7.28	5.35	5+1	6.00	3.98	<5	1.841	3.00	YES
	2.441	6.91	4.91	4+1	5.00	3.16	<5	1.704	3.00	YES
	2.480	6.19	4.16	4+1	5.00	3.16	<5	1.456	3.00	YES
π/4-DQPSK	2.402	8.77	7.53	7+1	8.00	6.31	<5	2.595	3.00	YES
	2.441	8.18	6.58	6+1	7.00	5.01	<5	2.283	3.00	YES
	2.480	7.75	5.96	5+1	6.00	3.98	<5	2.085	3.00	YES
8-DPSK	2.402	8.62	7.28	7+1	8.00	6.31	<5	2.507	3.00	YES
	2.441	8.75	7.50	7+1	8.00	6.31	<5	2.604	3.00	YES
	2.480	7.88	6.14	6+1	7.00	5.01	<5	2.148	3.00	YES

BLE:

Test Mode	Channel Frequency (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
BLE(1M)	2.402	7.23	5.28	5+1	6.00	3.98	<5	1.820	3.00	YES
	2.441	6.91	4.91	4+1	5.00	3.16	<5	1.704	3.00	YES
	2.480	6.24	4.21	4+1	5.00	3.16	<5	1.472	3.00	YES
BLE(2M)	2.402	7.34	5.42	5+1	6.00	3.98	<5	1.867	3.00	YES
	2.441	7.06	5.08	5+1	6.00	3.98	<5	1.764	3.00	YES
	2.480	6.42	4.39	4+1	5.00	3.16	<5	1.535	3.00	YES

**Conclusion:**

For the max result : 2.604 ≤ FCC Limit 3.0 for 1g SAR.