

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:

- $f(\text{GHZ})$  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:

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	-1.20	0.76	0+1	1.00	1.26	<5	0.261	3.00	YES
	2.441	-0.64	0.86	0+1	1.00	1.26	<5	0.300	3.00	YES
	2.480	-1.20	0.76	0+1	1.00	1.26	<5	0.265	3.00	YES
π/4-DQPSK	2.402	1.84	1.53	1+1	2.00	1.58	<5	0.526	3.00	YES
	2.441	2.45	1.76	1+1	2.00	1.58	<5	0.610	3.00	YES
	2.480	1.90	1.55	1+1	2.00	1.58	<5	0.542	3.00	YES
8-DPSK	2.402	2.45	1.76	1+1	2.00	1.58	<5	0.605	3.00	YES
	2.441	2.89	1.95	1+1	2.00	1.58	<5	<b>0.675</b>	3.00	YES
	2.480	2.33	1.71	1+1	2.00	1.58	<5	0.598	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	-1.16	0.77	0+1	1.00	1.26	<5	0.264	3.00	YES
	2.441	-0.59	0.87	0+1	1.00	1.26	<5	0.303	3.00	YES
	2.480	-1.16	0.77	0+1	1.00	1.26	<5	0.268	3.00	YES
BLE(2M)	2.402	-1.21	0.76	0+1	1.00	1.26	<5	0.261	3.00	YES
	2.441	-0.58	0.87	0+1	1.00	1.26	<5	0.304	3.00	YES
	2.480	-1.19	0.76	0+1	1.00	1.26	<5	0.266	3.00	YES

**Conclusion:**

For the max result :  $0.675 \leq$  FCC Limit 3.0 for 1g SAR.