

FCC ID:2BMZ7-T16

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.

EDR: Left ear:

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	1.749	1.50	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.973	1.58	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.782	1.51	1±1	2.00	1.58	<5	0.49918	3.00	YES
π /4DQPSK	2.402	1.347	1.36	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.494	1.41	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.25	1.33	1±1	2.00	1.58	<5	0.49918	3.00	YES

EDR: Right ear:

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	1.812	1.52	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	2	1.58	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	1.773	1.50	1±1	2.00	1.58	<5	0.49918	3.00	YES
π /4DQPSK	2.402	1.312	1.35	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	1.501	1.41	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	1.217	1.32	1±1	2.00	1.58	<5	0.49918	3.00	YES

BLE:1M

Left ear:

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	0.362	1.09	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	0.606	1.15	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	0.274	1.07	0±1	1.00	1.26	<5	0.39651	3.00	YES

BLE:2M

Left ear:

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	0.48	1.12	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	0.738	1.19	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	0.493	1.12	0±1	1.00	1.26	<5	0.39651	3.00	YES

BLE:1M

Right ear:

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	0.566	1.14	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	0.713	1.18	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	0.392	1.09	0±1	1.00	1.26	<5	0.39651	3.00	YES

BLE:2M

Right ear:

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	0.465	1.11	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	0.699	1.17	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	0.506	1.12	0±1	1.00	1.26	<5	0.39651	3.00	YES

Conclusion:For the max result : $0.62347 \leq \text{FCC Limit } 3.0$ for 1g SAR.