

FCC ID:2BC3D-GHOSTBUDS

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	0.265	1.06	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.52	1.13	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	0.05	1.01	0±1	1.00	1.26	<5	0.39651	3.00	YES
π /4DQPSK	2.402	0.94	1.24	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	1.172	1.31	1±1	2.00	1.58	<5	0.49524	3.00	YES
	2.480	0.697	1.17	0±1	1.00	1.26	<5	0.39651	3.00	YES

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	-0.621	0.87	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-0.895	0.81	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.394	0.91	0±1	1.00	1.26	<5	0.39651	3.00	YES
π /4DQPSK	2.402	0.24	1.06	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	-0.052	0.99	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	0.401	1.10	0±1	1.00	1.26	<5	0.39651	3.00	YES

BLE: Left ear:

1M

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	0.816	1.21	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	0.615	1.15	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-0.429	0.91	0±1	1.00	1.26	<5	0.39651	3.00	YES

2M

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	0.897	1.23	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	0.756	1.19	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-0.253	0.94	0±1	1.00	1.26	<5	0.39651	3.00	YES

BLE: Right ear:

1M

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	-1.629	0.69	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.44	-0.97	0.80	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-0.562	0.88	0±1	1.00	1.26	<5	0.39651	3.00	YES

2M

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	-1.552	0.70	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.44	-1.168	0.76	-1±1	0.00	1.00	<5	0.31241	3.00	YES
	2.480	-0.696	0.85	0±1	1.00	1.26	<5	0.39651	3.00	YES

Conclusion:For the max result : $0.49524 \leq \text{FCC Limit } 3.0$ for 1g SAR.