

FCC ID: 2AMKE-BS-T20

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(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:

Operation Frequency	2402MHz to 2480MHz
Modulation	GFSK, π/4 DQPSK, 8DPSK
Number of Channels	79
Antenna Type	FPC antenna
Antenna Gain	2.69dBi

BLE:

Operation Frequency	2402MHz to 2480MHz
Modulation	GFSK
Number of Channels	40
Antenna Type	FPC antenna
Antenna Gain	2.69 dBi

Left ear

Modulation	Channel Freq. (GHz)	Max Conducted Power (dBm)	Max tune-up power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	Result
Bluetooth (1-DH5)	2.402	2.14	3	2.69	5.69	3.71	<5	1.14899	3.00	Pass
	2.441	2.16	3	2.69	5.69	3.71	<5	1.15828	3.00	Pass
	2.480	1.37	3	2.69	5.69	3.71	<5	1.16750	3.00	Pass
Bluetooth (2-DH5)	2.402	2.95	3.5	2.69	6.19	4.16	<5	1.28919	3.00	Pass
	2.441	3.08	3.5	2.69	6.19	4.16	<5	1.29961	3.00	Pass
	2.480	2.02	3.5	2.69	6.19	4.16	<5	1.30995	3.00	Pass
Bluetooth (3-DH5)	2.402	3.04	3.5	2.69	6.19	4.16	<5	1.28919	3.00	Pass
	2.441	3.49	3.5	2.69	6.19	4.16	<5	1.29961	3.00	Pass
	2.480	2.46	3.5	2.69	6.19	4.16	<5	1.30995	3.00	Pass
Bluetooth LE (1 Mbps)	2.402	2.22	3	2.69	5.69	3.71	<5	1.14899	3.00	Pass
	2.440	2.27	3	2.69	5.69	3.71	<5	1.15804	3.00	Pass
	2.480	1.16	3	2.69	5.69	3.71	<5	1.16750	3.00	Pass
Bluetooth LE (2 Mbps)	2.402	2.28	3	2.69	5.69	3.71	<5	1.14899	3.00	Pass
	2.440	2.59	3	2.69	5.69	3.71	<5	1.15804	3.00	Pass
	2.480	1.5	3	2.69	5.69	3.71	<5	1.16750	3.00	Pass

Right ear

Modulation	Channel Freq. (GHz)	Max Conducted Power (dBm)	Max tune-up power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	Result
Bluetooth (1-DH5)	2.402	1.95	2	2.69	4.69	2.94	<5	0.91268	3.00	Pass
	2.441	1.04	2	2.69	4.69	2.94	<5	0.92006	3.00	Pass
	2.480	1.83	2	2.69	4.69	2.94	<5	0.92738	3.00	Pass
Bluetooth (2-DH5)	2.402	3.14	3.5	2.69	6.19	4.16	<5	1.28919	3.00	Pass
	2.441	2.76	3.5	2.69	6.19	4.16	<5	1.29961	3.00	Pass
	2.480	2.41	3.5	2.69	6.19	4.16	<5	1.30995	3.00	Pass
Bluetooth (3-DH5)	2.402	3.38	3.5	2.69	6.19	4.16	<5	1.28919	3.00	Pass
	2.441	3.01	3.5	2.69	6.19	4.16	<5	1.29961	3.00	Pass
	2.480	2.74	3.5	2.69	6.19	4.16	<5	1.30995	3.00	Pass
Bluetooth LE (1 Mbps)	2.402	1.2	2	2.69	4.69	2.94	<5	0.91268	3.00	Pass
	2.440	1.65	2	2.69	4.69	2.94	<5	0.91987	3.00	Pass
	2.480	1.07	2	2.69	4.69	2.94	<5	0.92738	3.00	Pass
Bluetooth LE (2 Mbps)	2.402	1.78	2	2.69	4.69	2.94	<5	0.91268	3.00	Pass
	2.440	1.8	2	2.69	4.69	2.94	<5	0.91987	3.00	Pass
	2.480	1.08	2	2.69	4.69	2.94	<5	0.92738	3.00	Pass

Conclusion: Both left and right ears support the same transmission

For the max result: **Left ear** 1.30995 + **Right ear** 1.30995= **2.6199** ≤ **3.0** for 1g SAR, SAR is not required.

Signature:

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