FCC ID: 2AXDL-CH16HL

RF exposure evaluation

§ 2.1093 Radiofrequency radiation exposure evaluation: Portable Devices.

According to § 15.247(i) and § 1.1307b(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 guidance.

The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g 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
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

BLE

Modulation	Frequency (GHz)		Tune	Max.	Max.		Result	exclusion thresholds for 1-g SAR
		Max.	up	Tune	Tune	Test		
		Power	Power	up	up	distance		
		(dBm)	(dBm)	Power	Power	(mm)		
				(dBm)	(mW)			
GFSK	2.402	-1.39	-2±1	-1	0.79	5	0.245	3.0

Conclusion:

For the max result : $0.245W/Kg \le FCC \text{ Limit } 3.0 \text{ for } 1g \text{ SAR}.$