

RF Exposure

Product Description and Model No:

<u>Description</u>	<u>Model No.</u>
BUSH Speaker with Amazon Alexa	B100ALF
Amazon Echo Multi-room Hi-Fi Speaker System	istation23AC
Bluetooth/Wi-Fi stereo Smart Speaker Brand name: Jensen	“JSB-550, JSB-550XXXXXX (Where XXXXX denote any printable characters in the ASCII Standard Character Table to represent variances in cosmetics or buyers.)”

FCC ID: LMZ-31324GC

Bluetooth

Frequency range: 2402MHz – 2480MHz
Maximum Antenna Gain: 0 dBi
Maximum EIRP Output Power: 0.36mW

Wi-Fi

Frequency range: 2412MHz – 2462MHz
Maximum Antenna Gain: 0 dBi
Maximum EIRP Output Power: 0.61mW

The maximum simultaneous power of WiFi and Bluetooth = 0.97mW

Following KDB 447498 D01, clause 4.3.1:

4.3.1 Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF Exposure evaluation is required if the separation distance between the user and/or bystander and the device’s radiating element is greater than 20 cm, except when the device operates as follows

For 100 MHz to 6 GHz and *test separation distances* ≤ 50 mm, the 1-g and 10-g SAR *test exclusion thresholds* are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

$$0.0002/(5) \cdot \sqrt{2.475} = 0.00006 < 3$$

Thus for <20cm portable usage, the SAR exclusion condition is fulfilled and SAR evaluation is not required for a separation distance of 5mm or more.