

Statement of compliance to Maximum Permissible Exposure (MPE)

Applicant : Bestway Inflatables & Materials Corp.
No. 3065 Cao An Road, Shanghai, China
Manufacturer : Bestway Inflatables & Materials Corp.
No. 3065 Cao An Road, Shanghai, China
Product Name : Pool+ Portable Bluetooth Speaker
Type/Model : 58309E

According to §2.1091, §2.1093 and §1.1307(b), 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.

The $S = PG / (4\pi R^2)$

Where S = power density in mW/cm^2

P = transmit power in mW

G = numeric gain of transmit antenna(numeric gain= $\text{Log-1}(\text{dB antenna gain}/10)$)

R = distance (cm)

R is chosen to be 20cm, the gain of antenna $G = \text{Log-1}(0.00\text{dBi}/10) = 1.0 \text{ dBi}$;

As we can see from the test reports 140400924SHA-001:

The maximum output power for BT = $4.40\text{dBm} = 2.75 \text{ mW}$;

The MPE = $PG / (4\pi R^2) = 2.75 * 1.0 / (4 * 3.14 * 20 * 20) = 0.00055$


This level is below the simultaneous transmission MPE test exclusion requirements (≤ 1.0).

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Prepared by:


Wade Zhang (Project Engineer)

Reviewed by:


Daniel Zhao (Reviewer)



Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.