



FCC ID: WHZ-SCA3
IC: 7824A-SCA3

Statement of compliance to Maximum Permissible Exposure (MPE)

Applicant : Canton Elektronik GmbH & Co. KG
Neugasse 21-23 Weilrod - Niederlauken 61276
Germany

Manufacturer : Everbright audio (Shenzhen) company limited.
No. 19, fareast industry area, Hsin Ho, Fuyung,
Bao An, Shenzhen, China

Equipment : Soundbar

Type/Model : SCA 3

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/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

R is chosen to be 20cm, the gain of antenna $G = 2.00\text{dBi} = 1.584$

As we can see from the test reports 140601072SHA-001:

The maximum output power for Bluetooth = $4.61\text{dBm} = 2.89\text{mW}$

$S = PG / (4\pi R^2) = 2.89 * 1.584 / (4 * 3.14 * 20 * 20) = 0.00091\text{mW/cm}^2$

For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v05r02,

The MPE ratios = $0.00091 / 1.0 = 0.00091$

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

Date of issue: June 25, 2014

Prepared by:

Jesse Xu (*Project Engineer*)

Reviewed by:

Daniel Zhao (*Reviewer*)



FCC ID: WHZ-SCA3
IC: 7824A-SCA3

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.