

Maximum Permissible Exposure Report

FCC ID: 2AOERSGHS-A1

Report No. : BTL-FCCP-2-2201T022
Equipment : Serafim A1 Gaming Headset
Model Name : Serafim A1
Brand Name : Serafim
Applicant : Serafim Technologies Inc.
Address : 5F., No.6, Aly. 9, Ln. 45, Baoxing Rd. Xindian Dist., New Taipei City

FCC Rule Part(s) : FCC Guidelines for Human Exposure IEEE C95.1

Date of Receipt : 2022/1/10
Date of Test : 2022/1/10 ~ 2022/3/16
Issued Date : 2022/3/22

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2201T022	R00	Original Report.	2022/3/22	Valid

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Antenna	Brand name	Model name	Type	Connector	Gain (dBi)
1	TI	CC2541	PCB	N/A	1.5

Maximum RF OUTPUT POWER

Mode	Maximum Output Power (dBm)
BLE	-0.98

CALCULATED RESULTS

BLE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.50	1.4125	-0.98	0.7980	0.00022	1	Complies

Note:

1. The calculated distance is 20 cm.

End of Test Report