

# **FCC RF EXPOSURE REPORT**

**FCC ID: Z9G-EDF23**

**Project No. : 1506C168**  
**Equipment : Active Speaker system**  
**Model : B7 Soundbar, CineSound B7**  
**Applicant : Edifier International Limited**  
**Address : Room 2207-9, Tower Two, Lippo Centre 89**  
**Queensway, Hong Kong**

**According: : FCC Guidelines for Human Exposure IEEE C95.1**

**B T L I N C .**

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## 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

| Ant. | Brand   | Model Name         | Antenna Type | Connector | Gain(dBi) |
|------|---------|--------------------|--------------|-----------|-----------|
| 1    | SUNLORD | SLDA52-2R540G-S1TF | Chip         | N/A       | 2.5       |

## TEST RESULTS

|                |                       |                    |                           |
|----------------|-----------------------|--------------------|---------------------------|
| EUT :          | Active Speaker system | Model Name :       | B7 Soundbar, CineSound B7 |
| Temperature :  | 25 °C                 | Relative Humidity: | 55 %                      |
| Test Voltage : | AC 120V/60Hz          |                    |                           |
| Test Mode :    | TX Mode_1Mbps         |                    |                           |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 2.5                | 1.7783                 | -0.13                   | 0.9705                 | 0.00034352                              | 1  | Complies    |
| 2.5                | 1.7783                 | -0.03                   | 0.9931                 | 0.00035152                              | 1  | Complies    |
| 2.5                | 1.7783                 | 0.08                    | 1.0186                 | 0.00036054                              | 1  | Complies    |

|                |                       |                    |                           |
|----------------|-----------------------|--------------------|---------------------------|
| EUT :          | Active Speaker system | Model Name :       | B7 Soundbar, CineSound B7 |
| Temperature :  | 25 °C                 | Relative Humidity: | 55 %                      |
| Test Voltage : | AC 120V/60Hz          |                    |                           |
| Test Mode :    | TX Mode_3Mbps         |                    |                           |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 2.5                | 1.7783                 | -0.29                   | 0.9354                 | 0.00033109                              | 1  | Complies    |
| 2.5                | 1.7783                 | -0.12                   | 0.9727                 | 0.00034431                              | 1  | Complies    |
| 2.5                | 1.7783                 | -0.98                   | 0.7980                 | 0.00028246                              | 1  | Complies    |

Note: the calculated distance is 20 cm.