



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: P4GTVEE26A**

**Project No.** : 1206C140A  
**Equipment** : Wireless Speaker System  
**Model** : Tvee®26A  
**Applicant** : Boston Acoustics INC.  
**Address** : 7 Constitution Way, Woburn, Massachusetts 01801,  
USA  
  
**According:** : FCC Guidelines for Human Exposure IEEE C95.1

**Neutron Engineering Inc.**

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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

| Ant. | Brand name | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|------------|------------|--------------|-----------|------------|
| 1    | N/A        | N/A        | PCB Antenna  | N/A       | 3.3        |

## TEST RESULTS

|              |                         |                    |              |
|--------------|-------------------------|--------------------|--------------|
| EUT:         | Wireless Speaker System | Model Name :       | Tvee®26A     |
| Temperature: | 25 °C                   | Relative Humidity: | 58 %         |
| Pressure:    | 1009 hPa                | Test Voltage :     | AC 120V/60Hz |
| Test Mode :  | CH01/ CH10 /CH18 -5Mbps |                    |              |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 3.3                | 2.1380                 | 1.73                    | 1.4894                 | 0.000634                                | 1                                                | Complies    |
| 3.3                | 2.1380                 | 1.00                    | 1.2589                 | 0.000536                                | 1                                                | Complies    |
| 3.3                | 2.1380                 | 0.29                    | 1.0691                 | 0.000455                                | 1                                                | Complies    |