



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: BOU-AEA3100MIC

Project No. : 1209C191
Equipment : Wireless microphone
**Model : AEA3100MIC/17; AEA3000MIC/07;
AEA3000MIC/37; AEA3100MIC/37**
Applicant : Philips Consumer Lifestyle
**Address : 5/F, Philips Electronics Building, Shatin, New
Territories, Hong Kong, China**
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:

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

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 | PIFA Antenna | N/A | -0.32 |

TEST RESULTS

| | | | |
|--------------|----------------------|--------------------|--------------|
| EUT: | Wireless microphone | Model Name : | AEA3100/17 |
| Temperature: | 25 °C | Relative Humidity: | 60 % |
| Pressure: | 1012 hPa | Test Voltage : | AC 120V/60Hz |
| Test Mode : | CH00/CH39/CH78-1Mbps | | |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| -0.32 | 0.9290 | 2.01 | 1.5885 | 0.00022581 | 1 | Complies |
| -0.32 | 0.9290 | 1.94 | 1.5631 | 0.00022220 | 1 | Complies |
| -0.32 | 0.9290 | 1.44 | 1.3932 | 0.00019804 | 1 | Complies |

| | | | |
|--------------|----------------------|--------------------|--------------|
| EUT: | Wireless microphone | Model Name : | AEA3100/17 |
| Temperature: | 25 °C | Relative Humidity: | 60 % |
| Pressure: | 1012 hPa | Test Voltage : | AC 120V/60Hz |
| Test Mode : | CH00/CH39/CH78-3Mbps | | |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| -0.32 | 0.9290 | 1.50 | 1.4125 | 0.00026119 | 1 | Complies |
| -0.32 | 0.9290 | 1.86 | 1.5346 | 0.00028376 | 1 | Complies |
| -0.32 | 0.9290 | 0.72 | 1.1803 | 0.00021825 | 1 | Complies |