

# **FCC RF EXPOSURE REPORT**

**FCC ID: XEG-VLS3BT**

**Project No. : 1512C186**  
**Equipment : Powered Desktop Monitors, Powered Speakers**  
**Model : VL-S3BT, LS-M100BT**  
**Applicant : TEAC Corporation**  
**Address : 1-47 Ochiai,Tama-shi,Tokyo 206-8530,Japan**  
**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:

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

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

Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain(dBi) |
|------|-------|------------|--------------|-----------|-----------|
| 1    | N/A   | N/A        | Printed      | N/A       | 0         |

## TEST RESULTS

|                |                                           |                    |                    |
|----------------|-------------------------------------------|--------------------|--------------------|
| EUT :          | Powered Desktop Monitors,Powered Speakers | Model Name :       | VL-S3BT, LS-M100BT |
| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 0                  | 1.0000                 | -3.87                   | 0.4102                 | 0.00008165                              | 1                                                | Complies    |
| 0                  | 1.0000                 | -1.84                   | 0.6546                 | 0.00013030                              | 1                                                | Complies    |
| 0                  | 1.0000                 | -1.82                   | 0.6577                 | 0.00013090                              | 1                                                | Complies    |

|                |                                           |                    |                    |
|----------------|-------------------------------------------|--------------------|--------------------|
| EUT :          | Powered Desktop Monitors,Powered Speakers | Model Name :       | VL-S3BT, LS-M100BT |
| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 0                  | 1.0000                 | -4.87                   | 0.3258                 | 0.00006486                              | 1                                                | Complies    |
| 0                  | 1.0000                 | -2.64                   | 0.5445                 | 0.00010838                              | 1                                                | Complies    |
| 0                  | 1.0000                 | -2.74                   | 0.5321                 | 0.00010591                              | 1                                                | Complies    |

Note: the calculated distance is 20 cm.