

# RF Exposure Evaluation

## FCC ID: 2AAZMHFD-872

### 1. Client Information

**Applicant** : EAST 2 WEST, LLC  
**Address** : 1432 S SALTAIR AVE #209 LOS ANGELES, CA 90025, UNITED STATES  
**Manufacturer** : OLENS TECHNOLOGY  
**Address** : 679 AVENIDA DE DIAMANTE ARROYO GRANDE, CA93420, UNITED STATES

### 2. General Description of EUT

<b>EUT Name</b>	:	Bluetooth Home Ringer
<b>Models No.</b>	:	HFD-872
<b>Model Difference</b>	:	N/A
<b>Product Description</b>	:	Operation Frequency: Bluetooth:2402~2480MHz
	:	Number of Channel: Bluetooth:79 Channels
	:	Max Peak Output Power: GFSK: 2.711dBm
	:	Antenna Gain: -2.41 dBi PCB Antenna 2 dBi Dipole Antenna
	:	Modulation Type: GFSK 1Mbps(1 Mbps) $\pi$ /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
<b>Power Supply</b>	:	DC Voltage supplied from Host System by USB cable
<b>Power Rating</b>	:	DC 5.0V by USB cable.
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

#### Note:

More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.
  - (1) Clause 4.3: General SAR test reduction and exclusion guidance
    - Sub clause 4.31: Standalone SAR test exclusion considerations
      - 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:  
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}]}{\leq 3.0 \text{ for 1-g SAR}}$$
  
$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

2.  
Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.119	2	$\pm 1$	1.294	0.401	3.0
2.441	1.584	2	$\pm 1$	1.813	0.567	3.0
2.480	2.711	2	$\pm 1$	2.350	0.740	3.0
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.312	2	$\pm 1$	1.353	0.419	3.0
2.441	1.460	2	$\pm 1$	1.762	0.551	3.0
2.480	2.559	2	$\pm 1$	2.269	0.715	3.0

**So standalone SAR measurements are not required.**