FCC MPE Calculation (Portable Device)

EUT Description: 3D Glasses Company: LG Electronics USA

Model: AG-S350 FCC ID: BEJS350

Typical distance or use: < 2.5 cm

Mobile position: head

Frequency: 2402-2480 MHz (79 channels)

Modulation: FHSS (GFSK)

Mid-Channel: 2.441 GHz (channel 39)

Mid-Channel Peak Power, Conducted: 1.31 dBm == 1.35 mW

Antenna Gain: G = 3.6 dBi

For devices intended for the **General Population** and used in an **uncontrolled** manner, routine evaluation (SAR) for this device is not required, because the source-based time-averaged power (average conducted power or average radiated EIRP, whichever is the highest) is below the:

- ☐ High threshold of 60/f for distances < 20 cm.

Calculation:

Limit = 60/2.441 = 24.58 mW

 $P_{radiated, max} = P_{conducted, dBm} + G_{dBi} = 1.31 dBm + 3.6 dBi == 4.91 dBm = 3.1 mW$

Conclusion:

The emitted power appears to be (far) below the required limit, so PASS.

Note 1: f shall be the mid-band frequency expressed in GHz; the limit calculated with this mid-band frequency applies to all channels. For PTT with body-worn or face-held modes, d is the distance from the device case to a parson's body; for modules with antennas inside laptops, d is the distance from the antenna to the person's body.

Note 2: Average Power levels are always equal or below the measured Peak Power levels, which means that calculating the EIRP using the Peak power can be considered as worst case.)