## **Analysis Report**

The Equipment Under Test (EUT) is the Appliance Controller (model: 2635-222A) which is a plug-in on/off switch that receives and transmits signals via 915MHz radio frequency and AC power line signals (131.65kHz) in order to control 120-volt loads.

915MHz Module:

**Modulation Type: FSK** 

Antenna Type: Integral, Internal

Frequency Range: 915MHz, single channel

EIRP range is -4dBm to 2dBm

Antenna gain is 0dBi

According to the KDB 447498:

Conducted power = Radiated Power (EIRP) – Antenna Gain

= 2dBm - 0dBi = 2dBm

Conducted Power = 1.58mW

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (0.915) mW
- = 15.68 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.