

INTERTEK TESTING SERVICES

The EUT is a Accessory (Arduino Compatible).

According to the KDB 447498,

The power thresholds for source-based time-averaging radiated output power (The worst-case radiated emission is 93.5dBμV/m at 3m in GFSK modulation type)

$$= [(FS \cdot D)^2 / 30] \cdot (T_{on} / (T_{on} + T_{off})) \text{ mW}$$

$$= 0.67 \cdot (T_{on} / (T_{on} + T_{off})) \text{ mW}$$

$$< 0.67 \text{ mW, since } (T_{on} / (T_{on} + T_{off})) < 1$$

And SAR Low Threshold Level:

$$60/f \text{ (GHz)} = 60/2.45$$

$$= 24.5 \text{ mW}$$

$$= 13.9 \text{ dBm}$$

Since the source-based time-averaging conducted output power and radiated output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.