5. Safety Human Exposure

5.1 RF Exposure Compliance

5.1.1 SAR Test Exclusion Thresholds

Results

Since maximum output power of the transmitter is 0.09 mW < 52 mW, hence the EUT is excluded from SAR evaluation according to Table 1 in RSS-102. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 of RSS-102 are multiplied by a factor of 2.5.

$EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$
$EIRP = 84.68 + 20\log(3) - 104.7 = 0.09\,mW$

Where

$EIRP$ is the equivalent isotropically radiated power, in dBm
E_{meas} is the field strength of the emission at the measurement distance, in dBuV/m
d_{Meas} is the measurement distance, in m