6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Passed**

Test standard   :   FCC KDB Publication 447498 D01 Appendix C

The Power calculation formula is as follows:

$$\text{EIRP} = p_t \times g_t = (E \times d)^2 / 30$$

p_t is the transmitter output power in watts
g_t is the numeric gain of the transmitting antenna (dimensionless)
E is the electric field strength in V/m
d is the measurement distance in meters (m)

The electric field strength in V/m is 51.84dBuV/m@3m = 0.000391V/m@3m
The d is 3m

$(0.000391*3)^2/30 = 4.59E-8W = 4.59E-5mW$

FCC:
Since the transmitter's maximum peak output power is 4.59E-5mW is much less than the limit, the EUT is excluded from the SAR assessment according to FCC KDB publication 447498: Mobile Portable RF Exposure