US Tech
 FCC ID: TWV-SXL1

 Test Report:
 10-0191

 Date:
 March 30, 2011

 Model:
 SXL1

 Customer:
 Numerex Corp

Maximum Public Exposure to RF (MPE)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 0.60 mW/cm² at a distance, d, of 20 cm from the EUT.

EUT Antenna= 2 dBi

Peak Power (Watts) = 0.000135 (from Table 9 of Test Report) Gain of Transmit Antenna = $2 dB_i = 1.585$, numeric (from Table 3 of Test Report)

d = Distance = 20 cm = 0.20 m

 $\mathbf{S} = (PG/4? d^2) = EIRP/4A = 0.000135 (1.585)/4*p*0.20*0.20$ = 0.000214/0.502 = 0.000426 W/m² = (W/m²) (1m²/W) (0.1 mW/cm²) = 0.0000426 mW/cm²

which is << less than 0.60 mW/cm²

The maximum exposure level to the public from the RF power of the 1.6GHz transmitter module, FCC ID: L2V-STX2-1 shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

1.6GHz Antenna= 5dBi

Peak Power (Watts) = 17.3 dBm (0.054 Watts) (from UST report 10-0190) Gain of Transmit Antenna = $5.0 dB_i = 3.16$, numeric (from UST report 10-0190)

d = Distance = 20 cm = 0.2 m

S = $(PG/4? d^2)$ = EIRP/4A = 0.054(3.16)/4*p*0.2*0.2 =0.171/0.502 = 0.34 W/m² = 0.0340 mW/cm²

Which is << less than 1 mW/cm²