



Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

72.8 dBuV/m From test report's measured radiated power.

3 m

 $0.00437 \text{ V} = 10^{((72.8-120)/20)}$

 $5.66914E-06 W = ((V \times 3m/5.5)^2)$

Maximum peak output power -- Radiated: 0.0000057 (W)

Evaluation distance: 20.00 (cm)
Evaluation frequency: 319.50 (MHz)

Limit from table below: 0.213 (mW/cm^2)

Power density at Evaluation frequency: 0.00000113 (mW/cm^2)

EUT complies

FCC/LSGAC Local Official's Guide to RF A LOCAL GOVERNMENT OFFICIAL'S GUIDE TO TRANSMITTING ANTENNA RF EMISSION SAFETY: RULES, PROCEDURES, AND PRACTICAL GUIDANCE

(B) Limits for General Population/Uncontrolled Exposure

| Frequency | Electric Field | Magnetic Field Strength | Power Density | Averaging Time |
|--------------|----------------|-------------------------|-----------------------|------------------------|
| Range | Strength (E) | (H) | (S) | $ E ^2$, $ H ^2$ or S |
| (MHz) | (V/m) | (A/m) | (mW/cm ²) | (minutes) |
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | $(180/f^2)*$ | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | f/1500 | 30 |
| 1500-100,000 | | | 1.0 | 30 |

f = frequency in MHz

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

^{*}Plane-wave equivalent power density