

FCC ID: NZLUAHL5C

RF Exposure/ S A R Statement

Applicant: Gentex Corporation

Model: UAHL5C

Calculations:

The following information provides the minimum separation distance for the antenna as part of the design for the "UAHL5C" as calculated from the FCC OET Bulletin 65, Appendix A, Table (B) Limits for General Population/Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering an $f/1500\text{mW}/\text{cm}^2$ ($0.601\text{mW}/\text{cm}^2$) uncontrolled exposure limit. The power density formula used was:

$$S = (P \cdot G) / (4 \cdot \pi \cdot r^2)$$

Where

P = 9.049 dBm (Maximum Power Output Power)

G = 7.8dBi (Numerical Antenna Gain, 7.8dBi)

R = 20.0cm

(P+G) = 16.849dBm

Converting 16.849dBm to mW = 48.41mW

The Power Density $S = 0.014\text{mW}/\text{cm}^2$

This is less than the above limit.