Revision: 04/19/2021 Approved By: Craig Harder

FCC ID: NZLUAHL5E

RF Exposure/ SAR Statement

Gentex Corporation

Model: UAHL5E

The following information provides the minimum separation distance for the antenna as part of the design 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/1500mW/cm2 (0.601mW/cm2) uncontrolled exposure limit. The power density formula used was:

$$S = (P*G)/(4*PI*r^2)$$

Where

P=		-0.18	dBm	(Maximum DSC Output Power in dBm)				
G	G=		dBi	(Numerical Antenna Gain)				
R	=	20	cm					
P	+G	7.625	dBm + 1dB (r	nax tune-u	p tolerance)	=	8.625	dBm
С	onverting	8.625	dBm to mW	7.286182	mW			
4	*PI*20²	=	5026.55					
The Power Densi	ity S	=	7.286182 (P*G)	mW/	5026.55 (4*PI*r²)	=	0.001450	mW/cm²

This is less than the above limit as well as the RSS-102 limit in section 2.5 Table 1 for a separation distance of 20mm of 30mW.