Compliance with 47 CFR 15.247(i)

"Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See $\S 1.1307(b)(1)$ of this chapter."

The EUT is a wideband transceiver that operates in the 5925-7250MHz band. The EUT will only be used on vehicles to help identify objects around the vehicles. The EUT will only be used with a separation distance of 20 centimeters or greater between the antenna and the body of the user or nearby persons and can therefore be considered a mobile transmitter per 47 CFR 2.1091(b). The EUT has a single integral antenna, with a gain of 11dBi. The maximum equivalent isotropic radiated power measured was 2.44 micro-Watts, or -25.1dBm. Since the transmit frequency is greater than 1.5GHz, and the output power is less than 3 Watts, the EUT is categorically excluded from routine environmental evaluation per 47 CFR 2.1091(c).

The MPE estimates are as follows:

Table 1 in 47 CFR 1.1310 defines the maximum permissible exposure (MPE) for the general population as ($f_{MHz}/1500$) mW/cm². The exposure level at a 20 cm distance from the EUT's transmitting antenna is calculated using the general equation:

 $S = (PG)/4\pi R^2$

Where: $S = power density (mW/cm^2)$

P = power input to the antenna (mW)

G = numeric power gain relative to an isotropic radiator

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

PG = EIRP

Solving for S, the maximum power density 20 cm from the transmitting antenna is summarized in the following table:

MPE Estimate

FCC ID: OXZWBPV2006

Antenna Type		Maximum radiated EIRP		Minimum Antenna Cable Loss	Power Density @ 20 cm	General Population Exposure Limit from 1.1310
	(GHz)	(mW)	(dBi)	(dB)	(mW/cm²)	(mW/cm²)
Patch Array	6.3	2440	11	0	0.486	1

The power density does not exceed 1.0 mW/cm² at 20 cm; therefore, the exposure condition is compliant with FCC rules.

The applicant's radio, FCC ID: OXZWBPV2006, is compliant with the requirements of 47 CFR 1.1310.