

File Number: 0430-EX-CN-2018

Conf Number: EL994017

Form 442 Experimentation Description

Prior License Issued = WI2XMA, expired.

VHF Experimentation:

Emitter - One device design - Transceiver

VHF Aviation Radio designed to meet FAA TSO-C169a VHF Transceiver and RTCA DO-186B VHF Radio Communications Transceiver Equipment Operating Within Radio Frequency Range 117.975 To 137.000 Megahertz VHF Experiments (in flight test aircraft station and in ground fixed station) in support of flight test include:

Emissions Tests -

Dynamic Response - eqpt not adversely affected by aircraft operations on ground and in flight

Interference Effects - eqpt not source of harmful conducted or radiated interference and shall not be adversely affected by conducted or radiated interference from other equipment or systems installed in the aircraft. Cover low, high and one mid-band frequencies.

Listed are EMC, Harmonics, Spurious Emissions.

Reception - eqpt monitoring a local communication frequency to verify that the receiver produces a clearly audible and understandable output.

Transmission - eqpt establishing contact with another VHF communication station and receiving a report of reliable communications.

Flight Tests -

Interference Effects - in flight, cover low, high and one mid-band frequencies.

Communication System Performance - omni coverage in flight.

Equipment Functional Test - Air to Ground and Ground to air radio check