

KI2XEA - Milford, MI

Tests to Date:

- Current vehicle antenna durability testing
- Current vehicle antenna performance tests
- Current vehicle antenna improvement
- Prototype vehicle antenna system testing and development
- Prototype antenna system testing
- Competitive vehicle antenna system evaluation

Experimentation Conducted:

- Antenna development for '92 Olds N-car backlite antenna
- Antenna development for '92 U-van slot antenna
- Antenna development of a windshield antenna for Saturn
- Antenna development for Electric Vehicle antenna system
- Antenna development and evaluation of outside vendor antennas for future GM vehicle programs
- Improvements made to production Y-car antenna performance
- Evaluation of outside vendor tri-band antennas for T & B
- Testing of 100% of LAD and FAD durability vehicles at MPG
- Testing of some CPC, CAD, T&B, and Saturn durability vehicles
- Antenna testing of domestic and foreign competitive vehicles

Hours of Operation:

- 60 hours at 89MHz
- 60 hours at 95MHz
- 60 hours at 107MHz

Publications:

- Delco Electronics Radio System Specification DE-RSS-1
- Entertainment System Design Requirements GM ESDR-1
- AM/FM Antenna Polar Pattern Test Procedure ES-S-04

Patents:

- Defensive publication for Multiple Element Windshield Antenna

Other Information:

- Nominal Effective Radiated Power used for most testing is +21dBm (125.9 milliwatts). Maximum Effective Radiated Power does not exceed 1.26 watts.
- Transmitter identification is made at 20 second intervals in International Morse Code with type F2 emission at a peak deviation of 7.5 kHz.