

Antenna Information

Lockheed Martin proposes to operate a commercial test equipment antenna range for evaluation of a NAVY ESM receive antenna at the Electronics Park existing test facility. This range is located at the rooftop level to simulate a shipboard configuration of an ESM receiver antenna and detection system. The antenna will be arranged below the rooftop metal covers/structures to provide partial shielding to the north, east and west directions.

The antenna parameters below will be connected to a Commercial-Off-The-Shelf (COTS) signal source and amplifier. The directional antenna below are proposed to be pointed toward to the NAVY receive antenna, adjusted for horizontal and vertical orientations, for intermittent single frequency tests.

Antenna (for frequencies above 30MHz in the application):

Type: Log Periodic

Manufacturer: Sunol Sciences Corporation

Model #: LPA JB1-UN or equivalent

Gain: 9.2 dB

Half Power beam width: 45 deg at 2000MHz. 60-80 deg at 30MHz.

Orientation in the Horizontal Plane: 216° True North

Orientation in the Vertical Plane: 0° referenced to horizon

Polarization: vertical and horizontal

The cable losses between the transmitter and antenna is greater than or equal to 9.2db.