NSC FLRFIM Project Outdoor Test

Information: Outdoor over-the-air testing of BECDL, SRW, and VRC-99 waveforms in the 1.6 to 2.1 GHz frequency range at the GTRI Cobb County Research Facility. Specific sub-bands can be specified.

2020 Test Dates: Feb 5-6 & 19-20, Mar 4-5 & 18-19, April 8-9 & 22-23

Is directional antenna, other than radar used: **Yes, 16-element (5 dBi ea.) phased array for communications.**

If so, width of beam in degrees at half-power point: **~38°(E-plane) & ~38°(H-plane) at 2.0 GHz**

Orientation in horizontal plane: **212° (azimuth; measured eastward from 0° North)**

Orientation in vertical plane: **0° elevation (horizontal)**

Stationary or Mobile antenna: **Stationary**

Lower Band: Lower Frequency: **1695 MHz** Upper Frequency: **1710 MHz**

Upper Band: Lower Frequency: **2155 MHz** Upper Frequency: **2180 MHz**

Lower Frequency	Upper Frequency	Frequency Units	
1695	**1710**	**MHz**	
2155	**2180**	**MHz**	
Power	Power Units	ERP	ERP Units
16	**W**	**51**	**W**
Mean/Peak	Frequency Tolerance		
Mean	**10 kHz**		

Emissions Designator:
(See https://fccid.io/Emissions-Designator/)

25MW9X

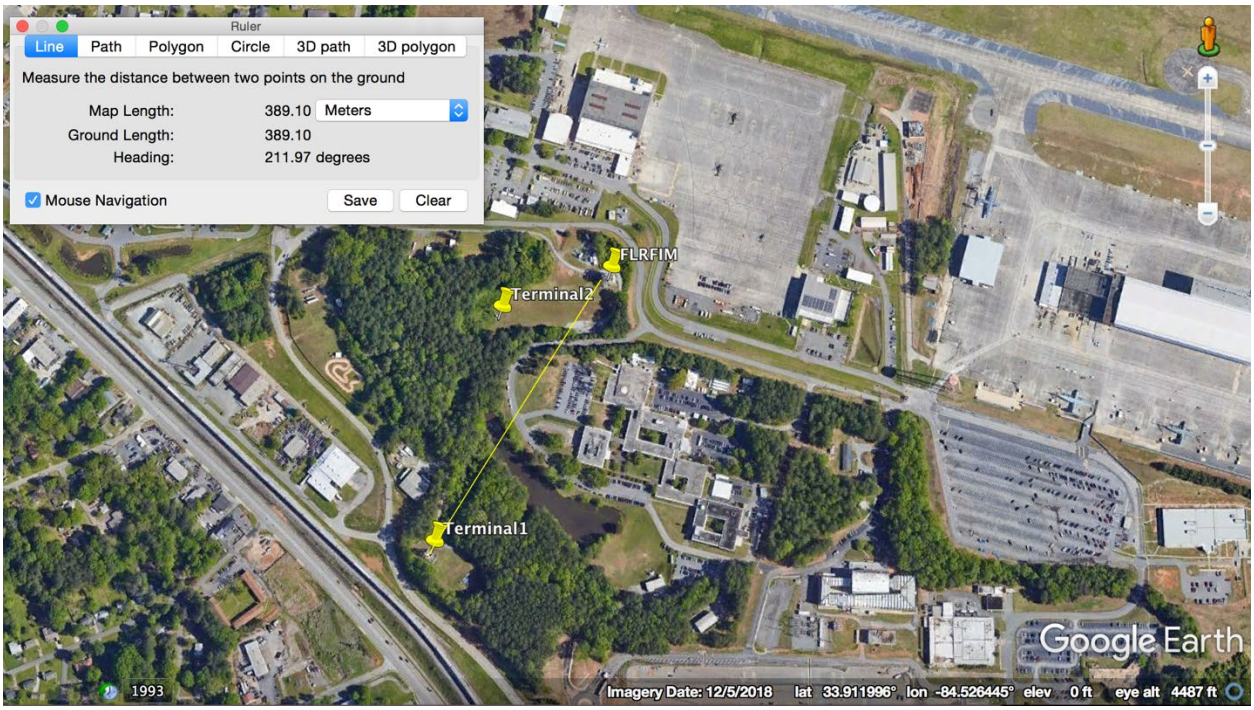
Necessary Bandwidth: **25M – 25 MHz**

Type of Modulation of Main Carrier: **W – "Cases not covered above, in which an emission…"**

Nature of Modulating Signal: **9 – "Composite system with one or more channels…"**

Type of Information: **X – "Cases not otherwise covered"**

Test Diagram



FLRFIM CCRF Test Setup