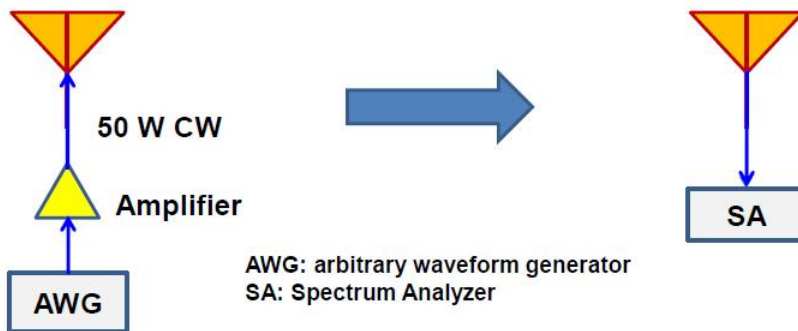


On February 25th, 2014 US government personal at the Navy Research lab in Washington DC and at Chesapeake Bay Maryland used NRL laboratory test equipment to analyze NVIS transmit and receive performance between their standard B & W folded dipole by Barker & Williamson and the E-H Poynting Vector antenna by Alpha Cognetics. Comparisons were between two antennas located at NRL in Washington DC and two antennas in Maryland separated by approximately 35 miles.

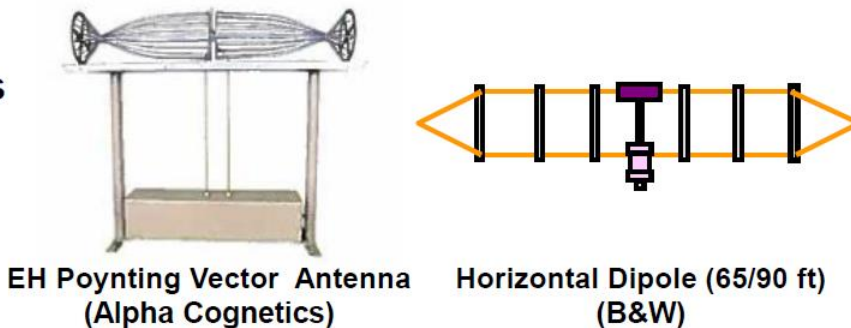
Transmit from DC - Receive at MD on 7.7x MHz	Signal (dBm)	Noise (dBm)	SNR (dB)
E-H to E-H	-95	-116	21
BW to BW	-94	-113	19
Transmit from Md - Receive at DC on 7.7x MHz			
E-H to E-H	-92	-113	21
BW to BW	-89	-124	35
Transmit power was 50 watts (+46.99 dBm)			

While the Department of the Navy, Department of Defense or the US government cannot endorse any particular component, equipment, or warrants the reproducibility of any testing results (their disclaimer), they did comment and say:
“Performance was impressive, considering the small footprint that your antenna requires”

Setup



Antennas



I certify the enclosed recap results and drawing are a true and accurate review of the testing data by the Navy Research Lab. *Dr. Roger Blouch GRCL / RCDD*

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