



ARRAY ANTENNA CAPABILITY

April 30, 2026

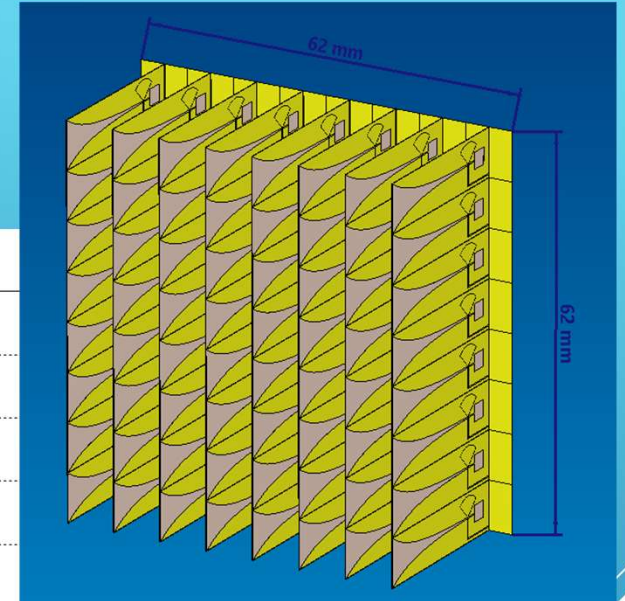
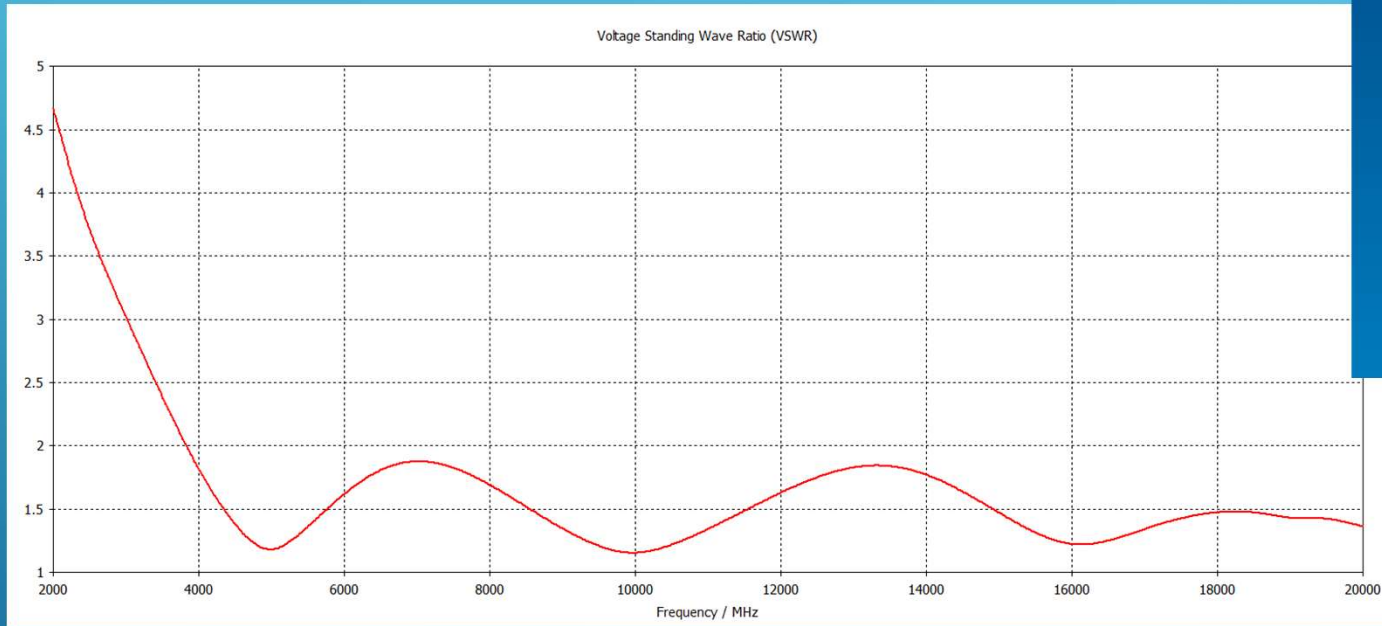
MCV Microwave East Inc.
Atlanta RF Tech LLC



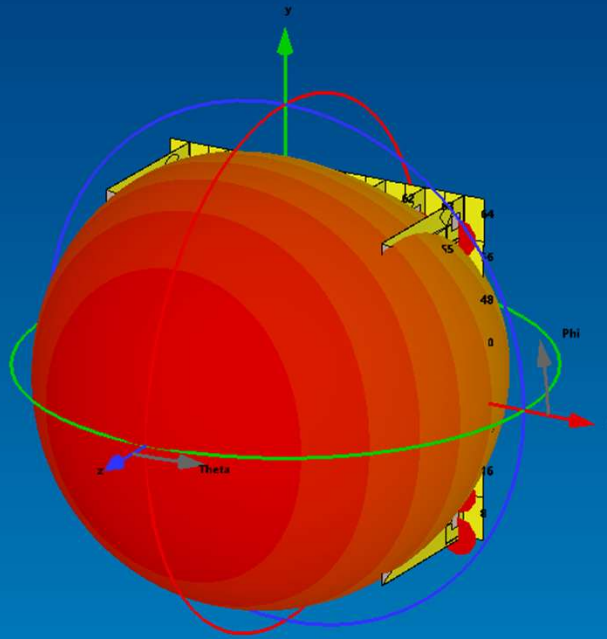


- ▶ VIVALDI ARRAY
- ▶ TCDA ARRAY
- ▶ PATCH ARRAY
- ▶ Designed and Manufactured in U.S.A.

ARRAY ANTENNA OFFERING:

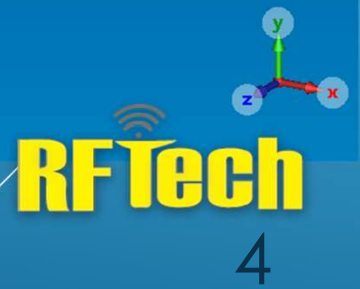


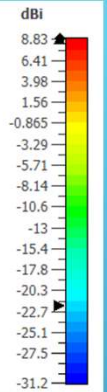
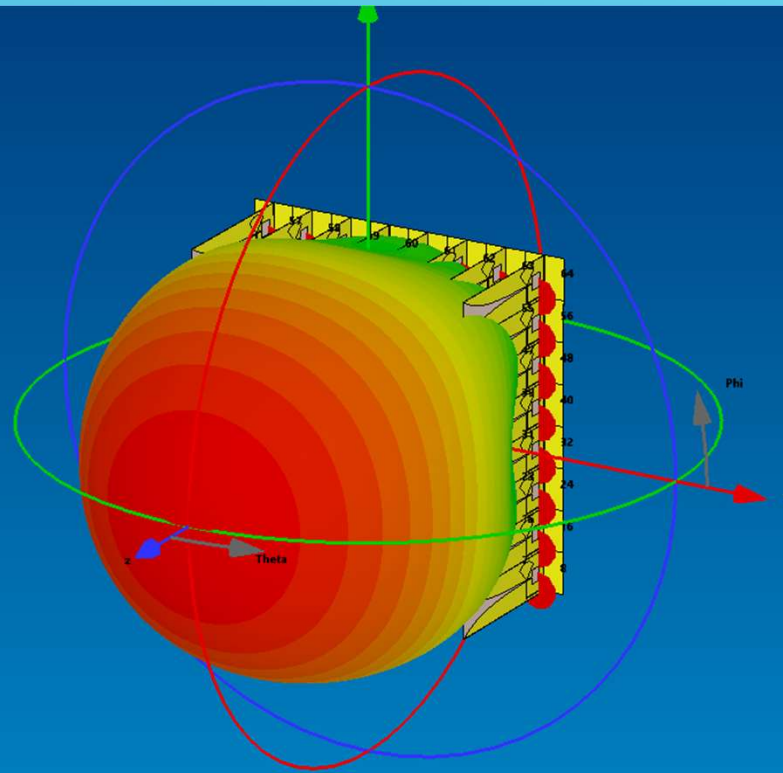
2-18 GHz 8X8 VIVALDI ARRAY



farfield (f=2000) [Array Scanning]	
Type	Farfield
Approximation	enabled ($kR \gg 1$)
Component	Abs
Output	Realized Gain
Frequency	2000 MHz
Rad. Effic.	-0.2728 dB
Tot. Effic.	-2.336 dB
Rlzd. Gain	2.348 dBi

2-18 GHZ 8X8 VIVALDI ARRAY

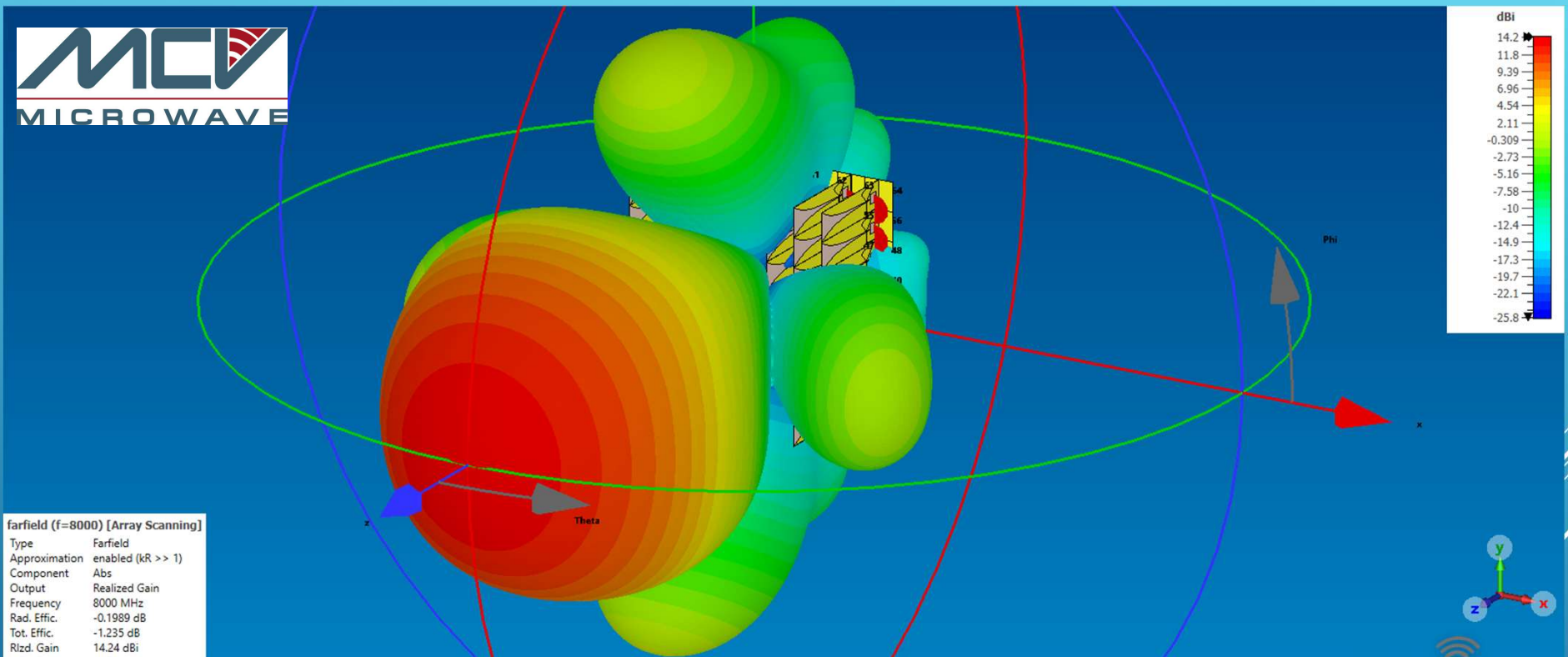




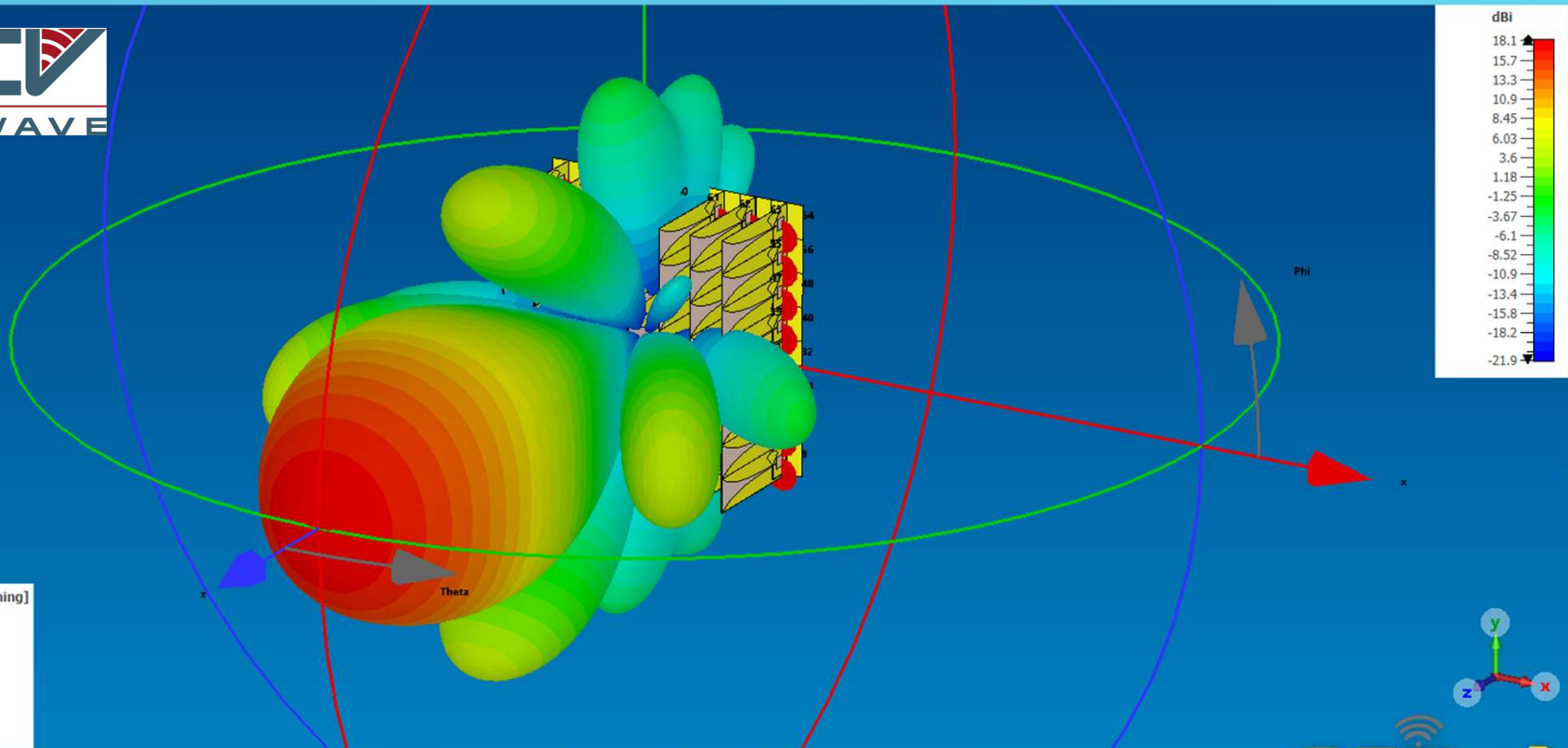
farfield (f=4000) [Array Scanning]

Type	Farfield
Approximation	enabled (kR >> 1)
Component	Abs
Output	Realized Gain
Frequency	4000 MHz
Rad. Effic.	-0.09504 dB
Tot. Effic.	-1.040 dB
Rtzd. Gain	8.832 dBi

2-18 GHZ 8X8 VIVALDI ARRAY



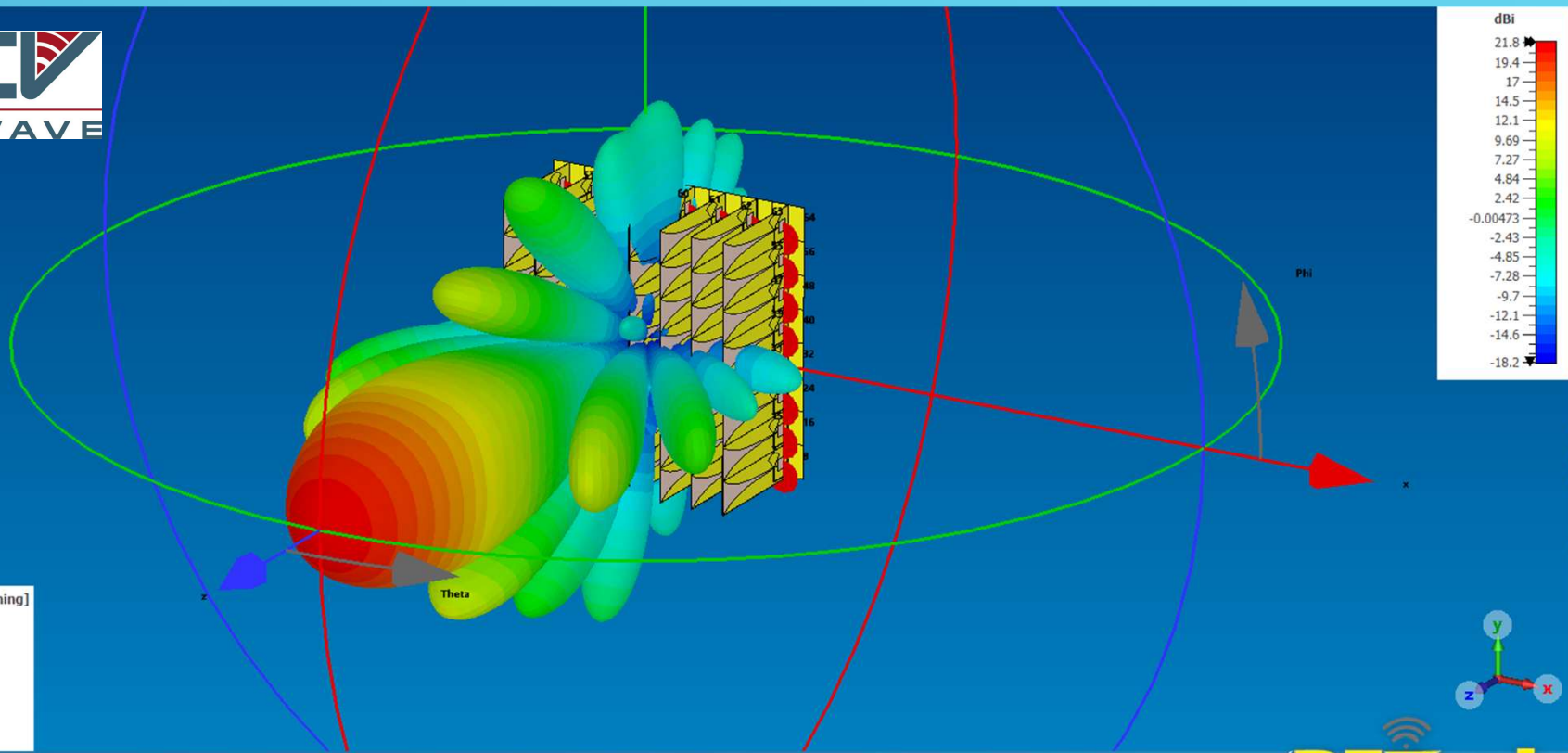
2-18 GHz 8X8 VIVALDI ARRAY



farfield (f=1.2e+4) [Array Scanning]

Type	Farfield
Approximation	enabled (kR >> 1)
Component	Abs
Output	Realized Gain
Frequency	12000 MHz
Rad. Effic.	-0.2017 dB
Tot. Effic.	-0.8110 dB
Rlzd. Gain	18.15 dBi

2-18 GHZ 8X8 VIVALDI ARRAY

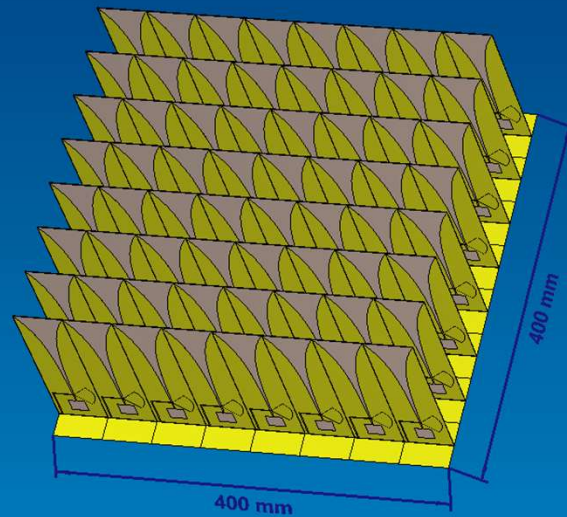


farfield (f=1.8e+4) [Array Scanning]

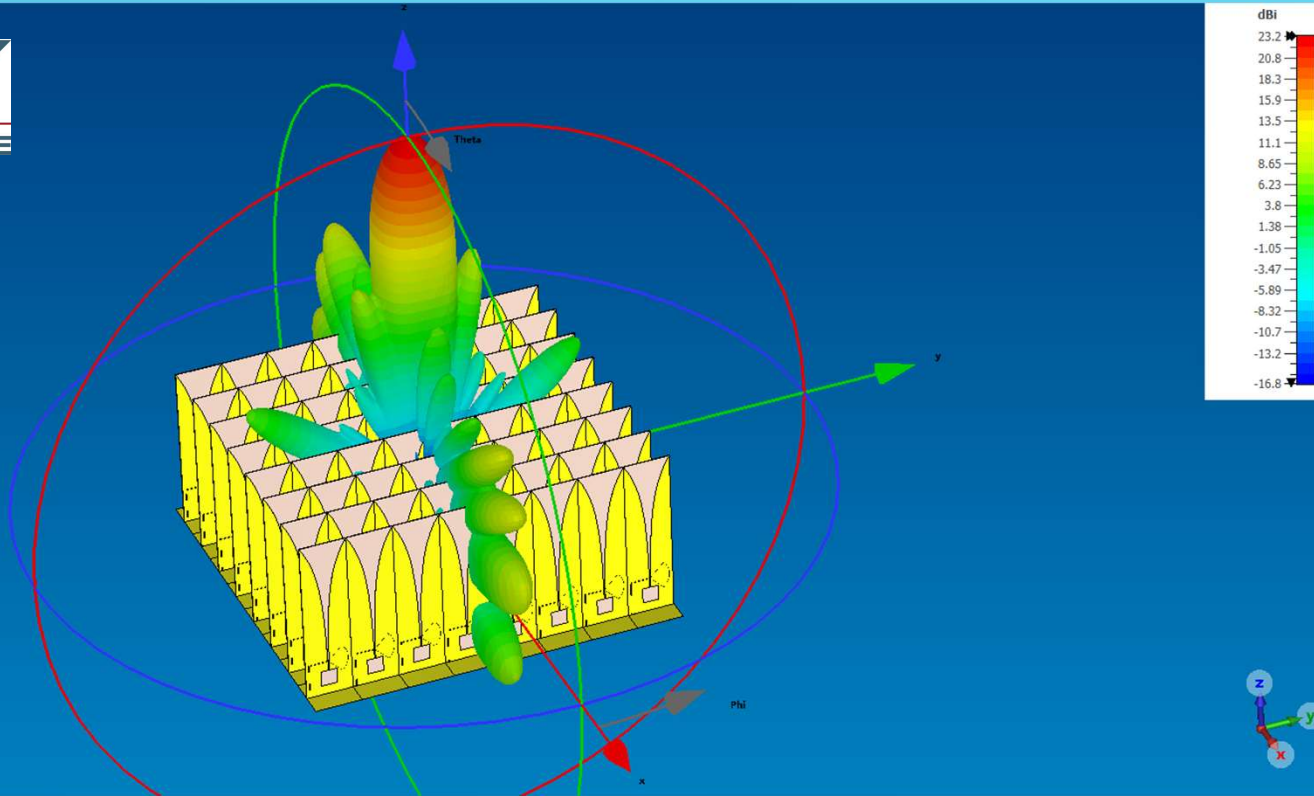
Type	Farfield
Approximation	enabled (kR >> 1)
Component	Abs
Output	Realized Gain
Frequency	18000 MHz
Rad. Effic.	-0.2599 dB
Tot. Effic.	-0.5493 dB
Rlzd. Gain	21.81 dBi

2-18 GHZ 8X8 VIVALDI ARRAY





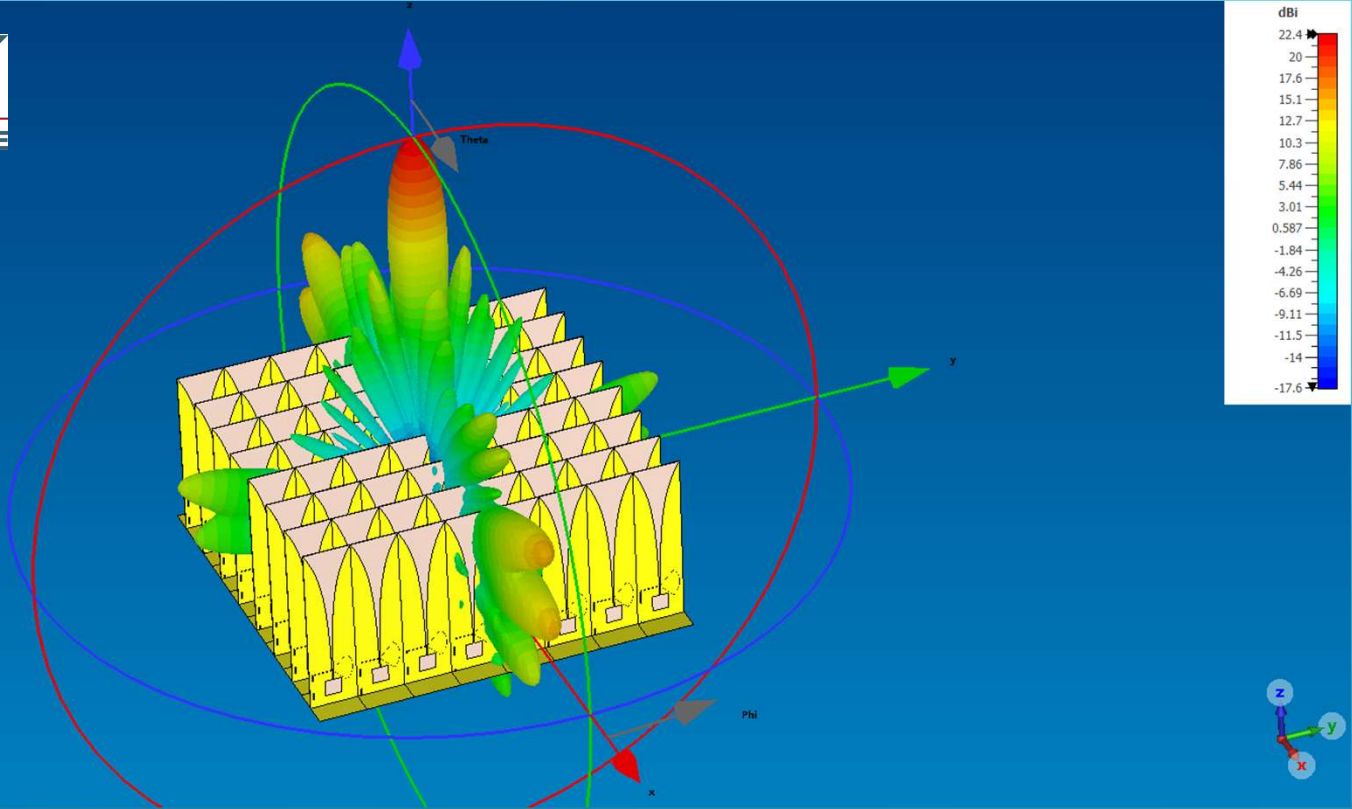
8X8 C-BAND SP VIVALDI ARRAY



farfield (f=5000) [Array Scanning]

Type	Farfield
Approximation	enabled (kR >> 1)
Component	Abs
Output	Realized Gain
Frequency	5000 MHz
Rad. Effic.	-0.4438 dB
Tot. Effic.	-1.413 dB
Rizd. Gain	23.20 dBi

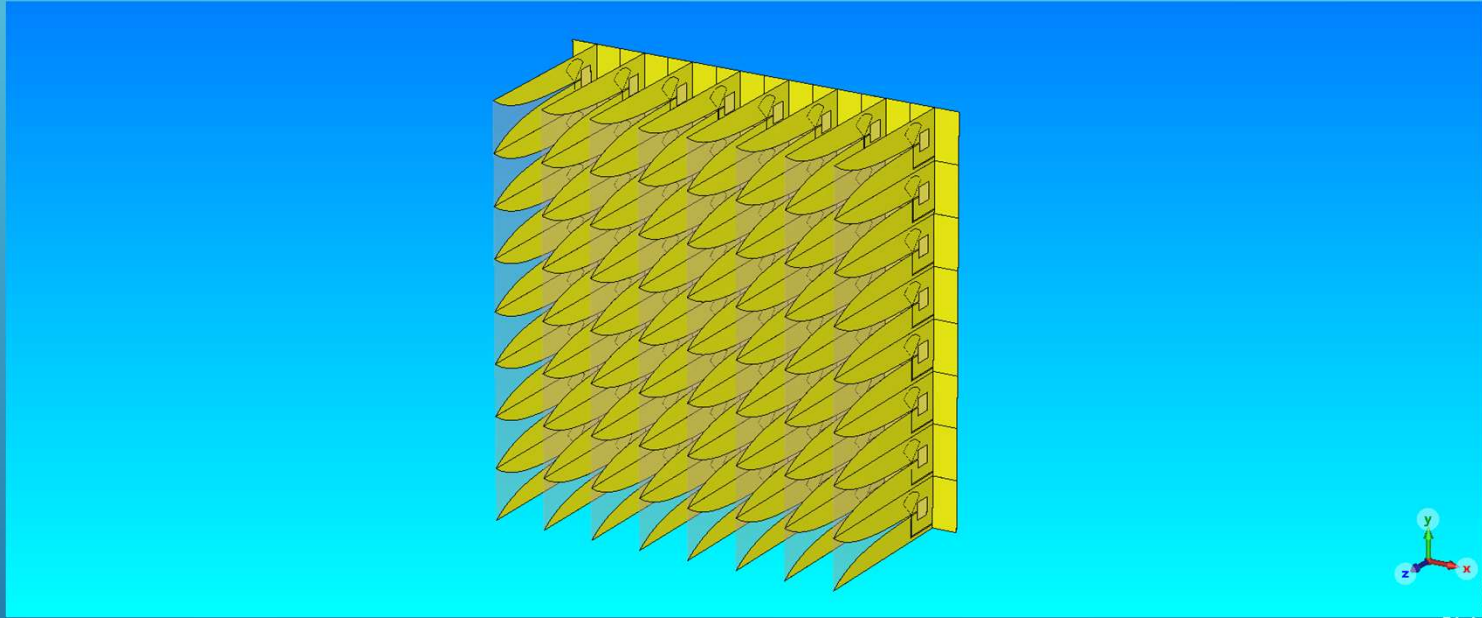
5GHZ PATTERN



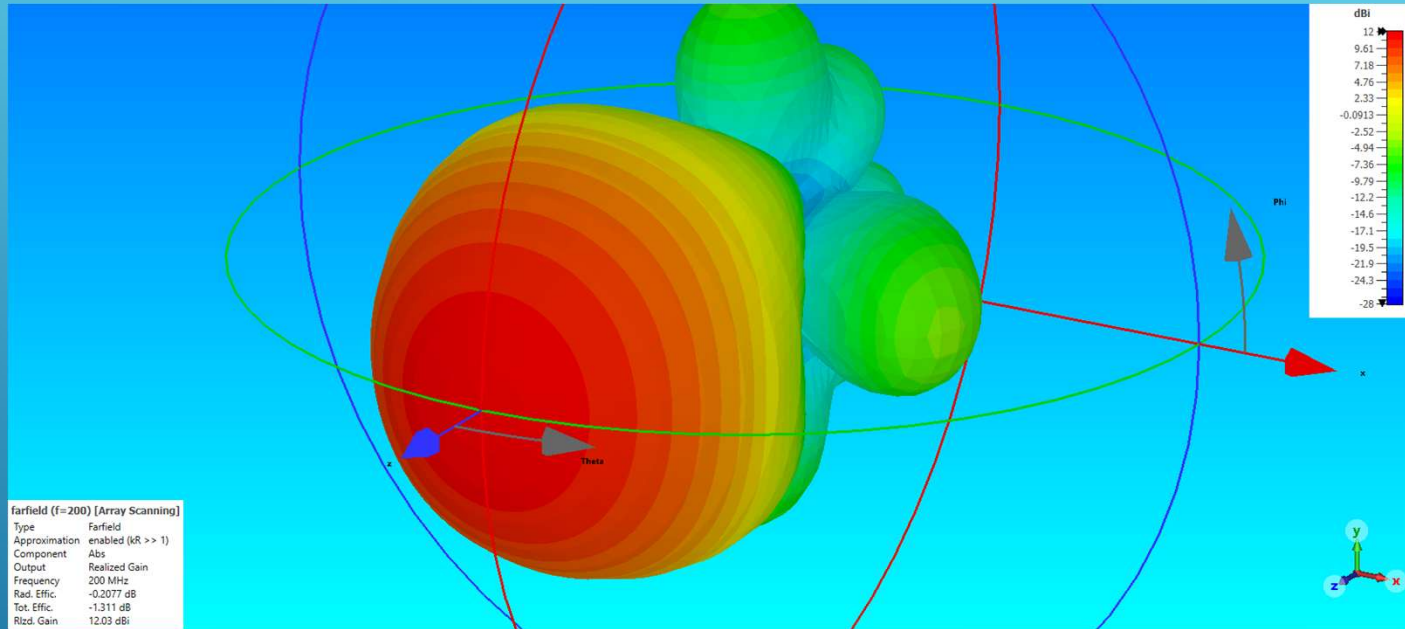
farfield (f=6000) [Array Scanning]	
Type	Farfield
Approximation	enabled (kR >> 1)
Component	Abs
Output	Realized Gain
Frequency	6000 MHz
Rad. Effic.	-0.5560 dB
Tot. Effic.	-2.527 dB
Rzld. Gain	22.41 dBi

6GHZ PATTERN

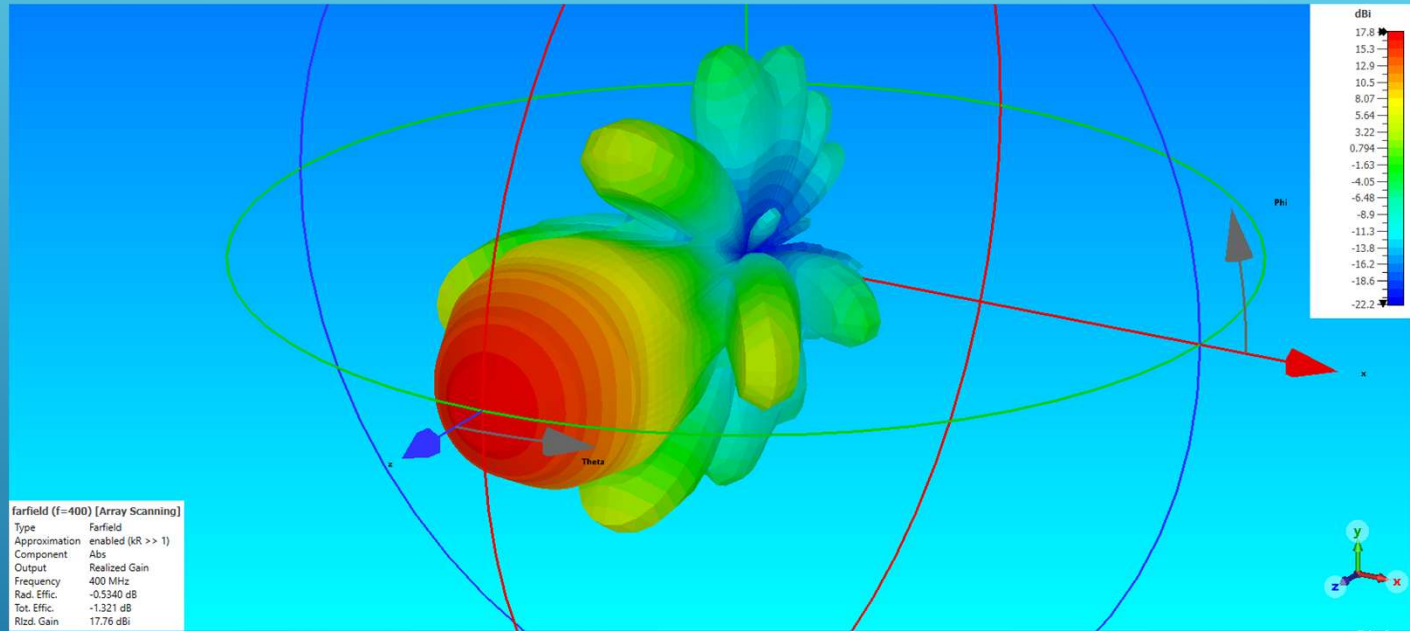




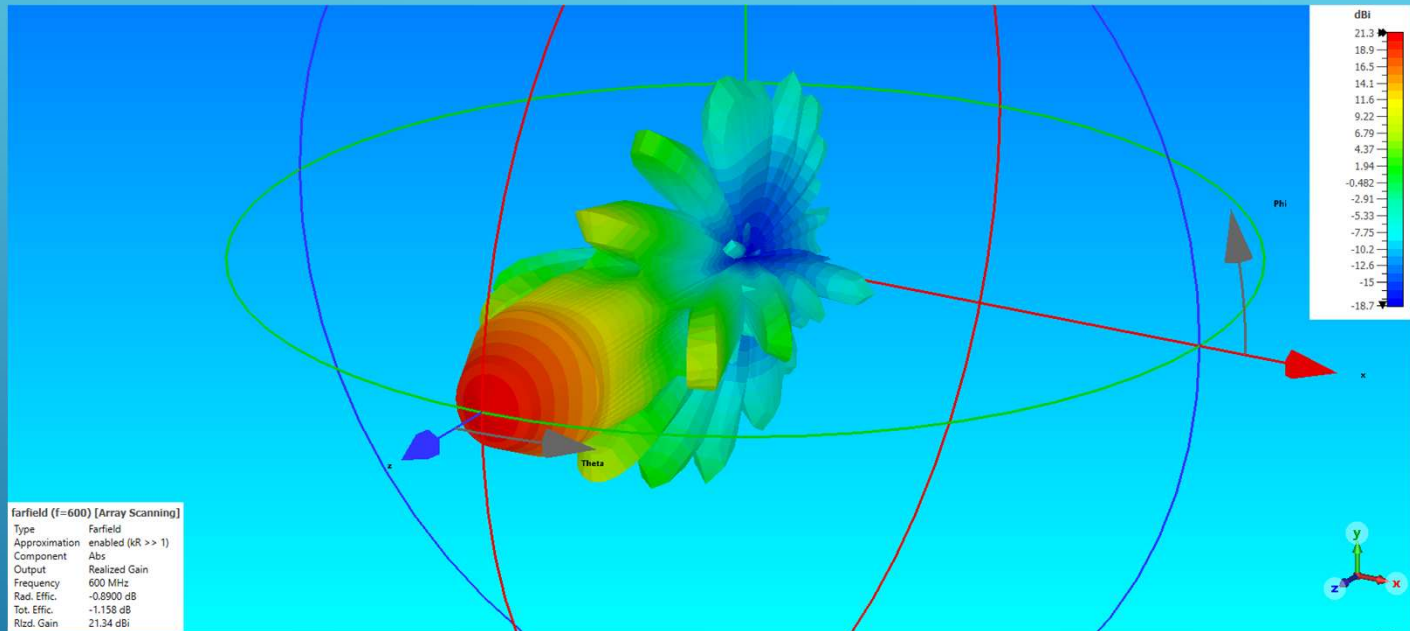
VHF/UHF 8X8 VIVALDI ARRAY
NEXT: ADD FSS TO IMPROVE PERFORMANCE



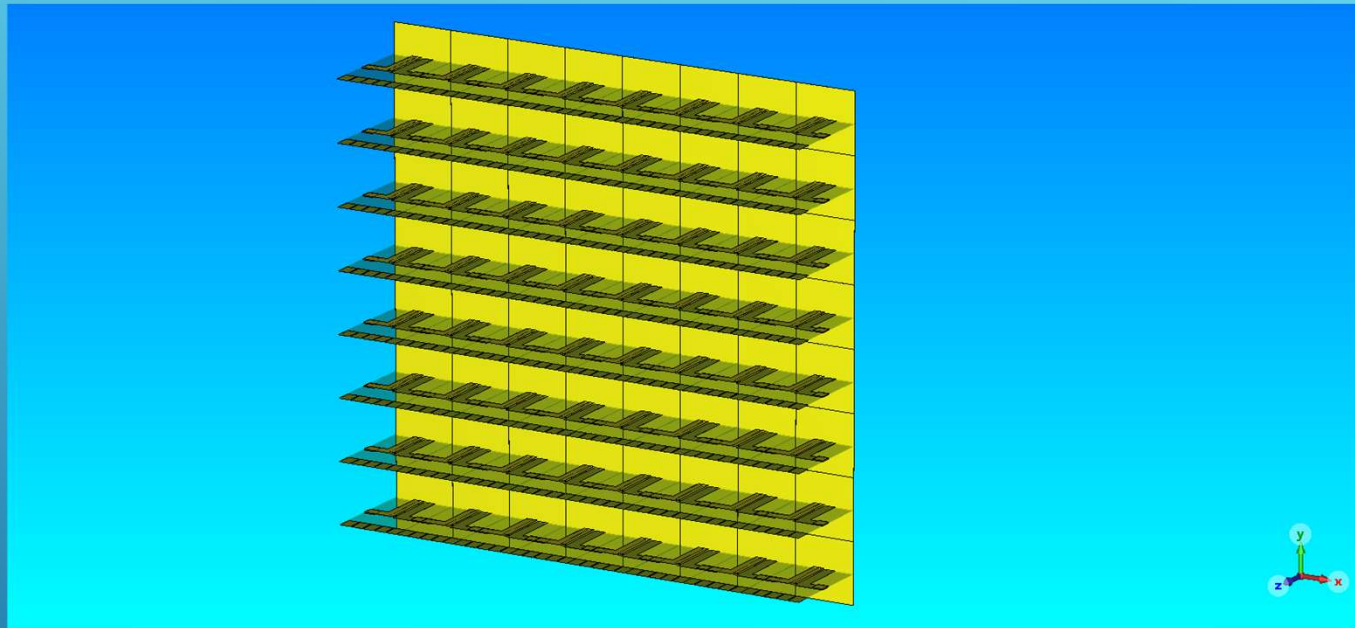
VHF/UHF 8X8 VIVALDI ARRAY



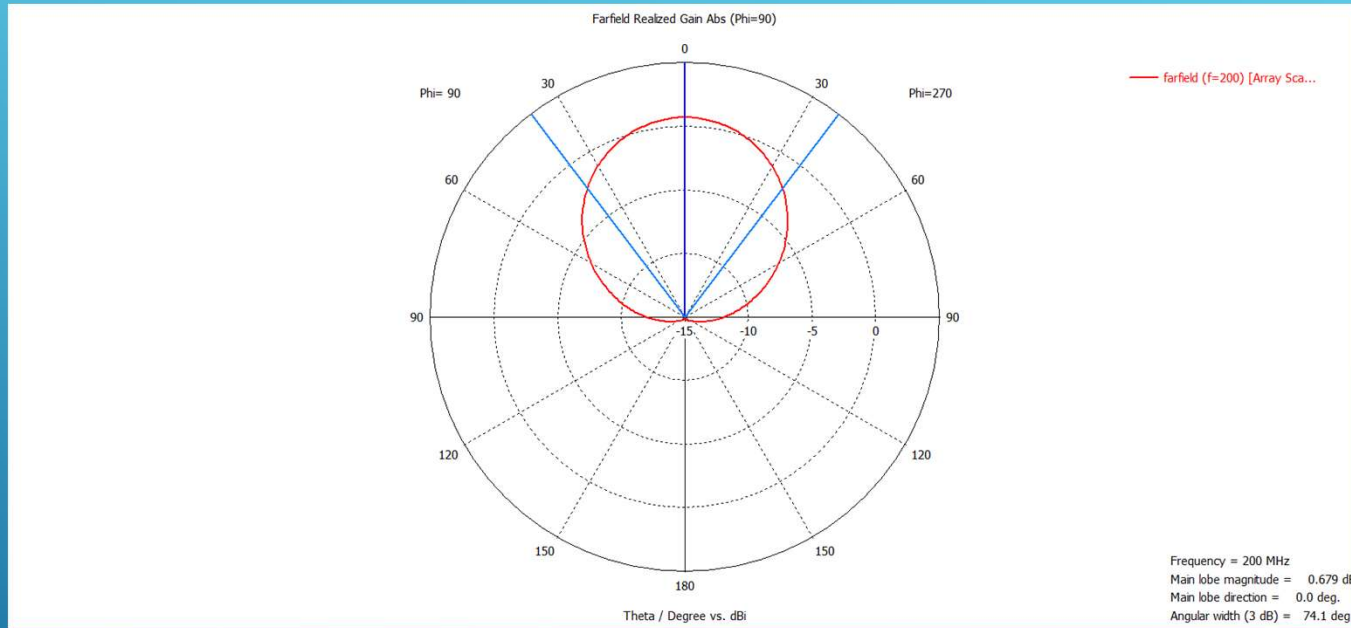
VHF/UHF 8X8 VIVALDI ARRAY



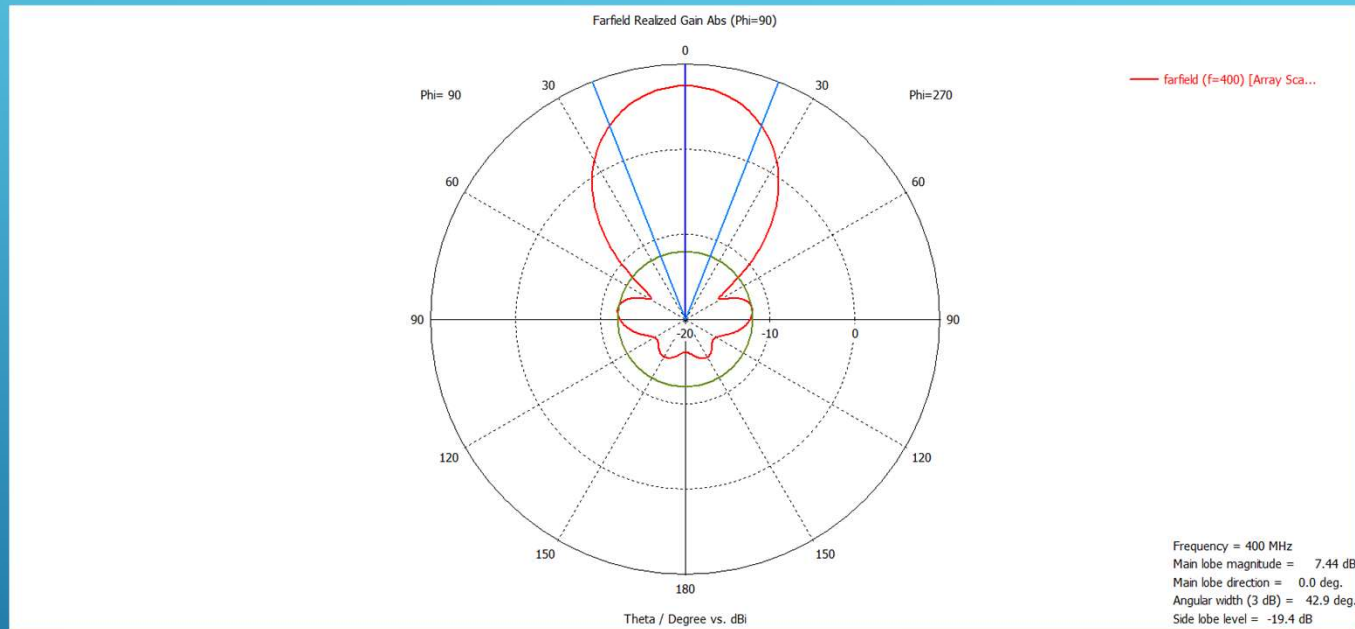
VHF/UHF 8X8 VIVALDI ARRAY



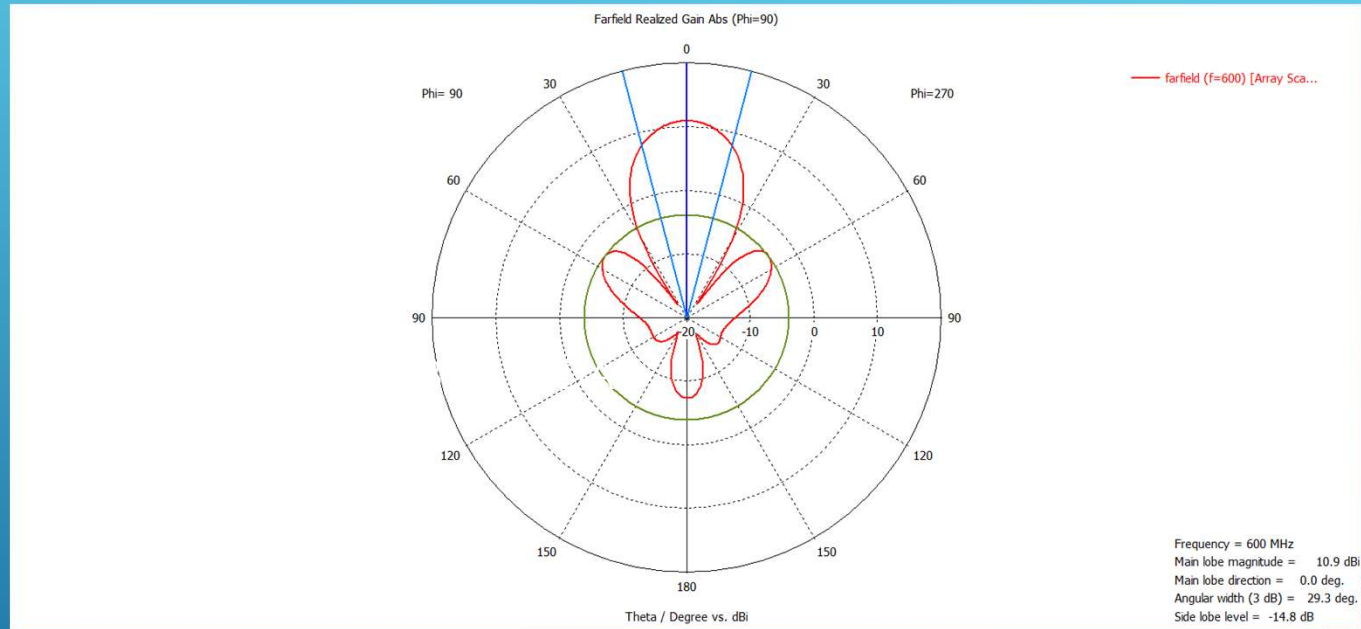
200MHZ-600MHZ 8X8 SP TCDA
FSS SUPERSTRATE



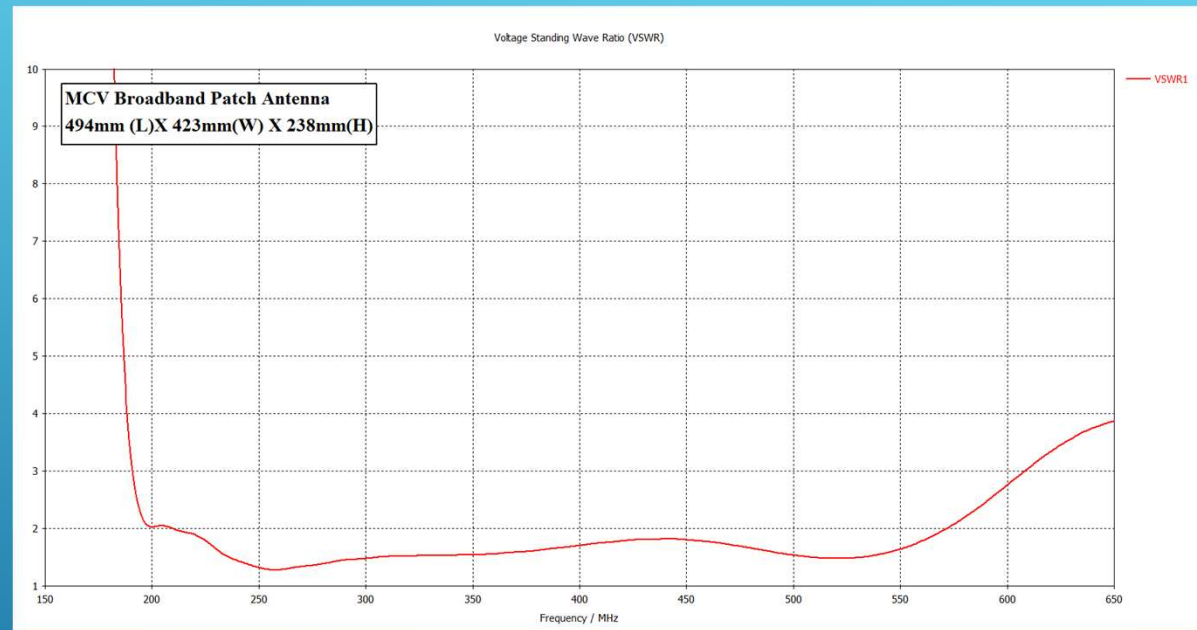
200MHZ-600MHZ 8X8 SP TCDA



200MHZ-600MHZ 8X8 SP TCDA



200MHZ-600MHZ 8X8 SP TCDA



NEW 3:1 BW FSS LOADED PATCH ANTENNA FOR ARRAY INTEGRATION

THANK YOU!

Let's explore how we can solve your next technical challenge together!

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