

WINEGARD

Test Report:

Pattern and Gain Measurements on Winegard 74 cm Antenna with Jupiter Radio and General Dynamics Feedhorn

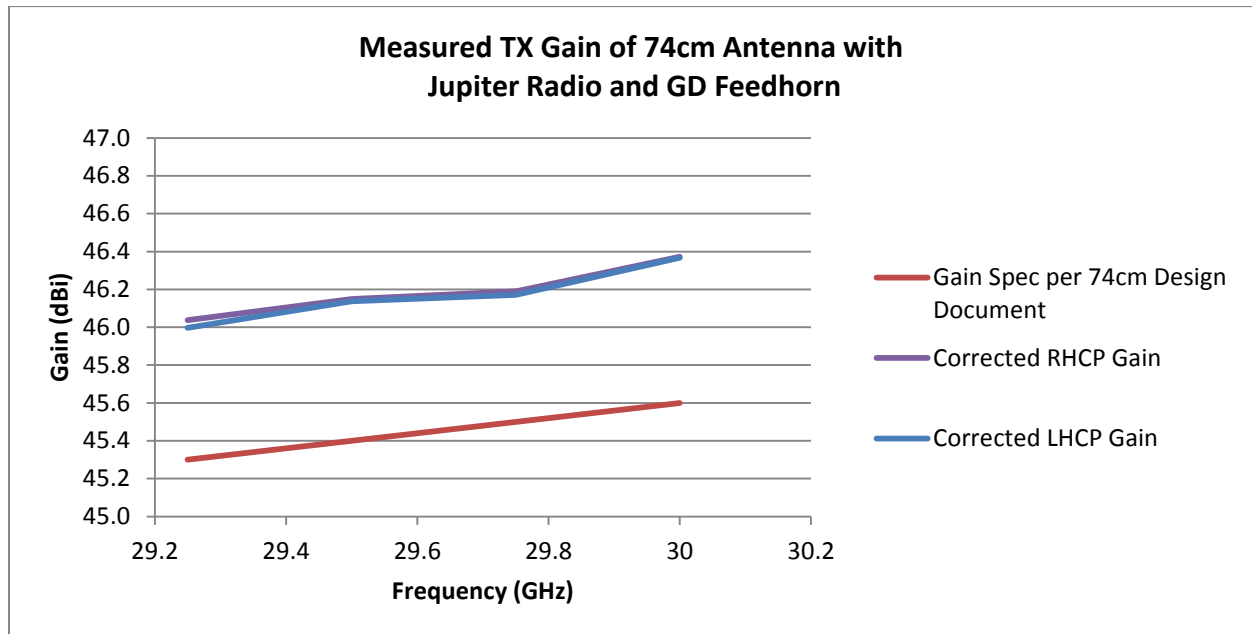
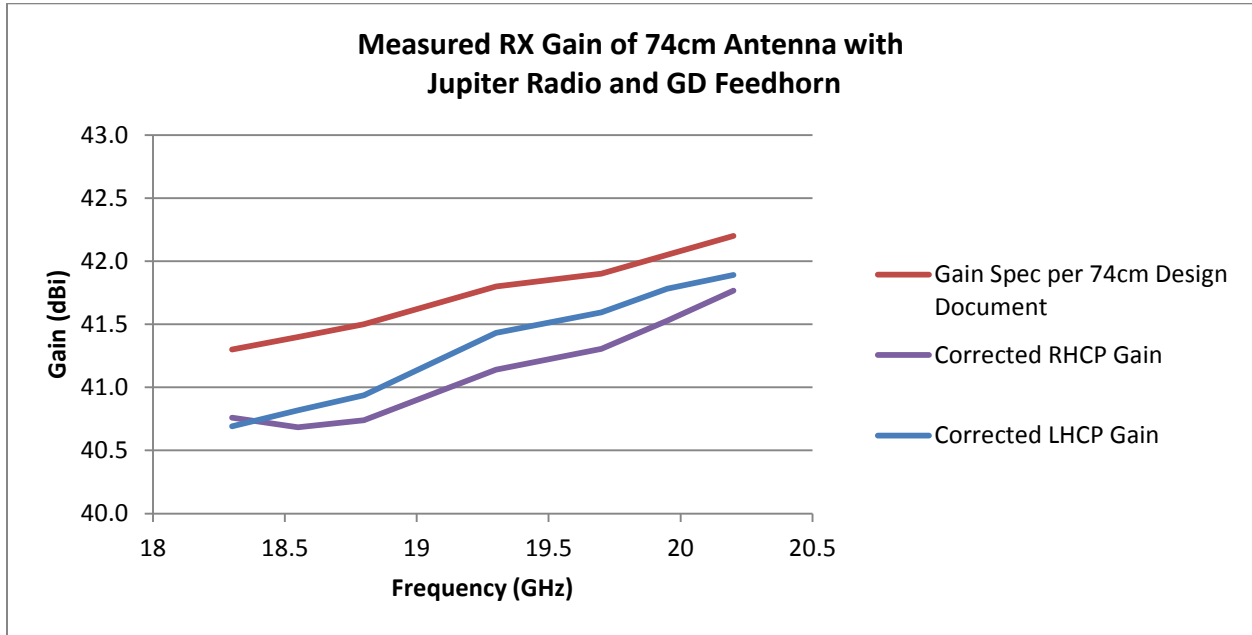
Prepared by Ted Hea
5/19/2015

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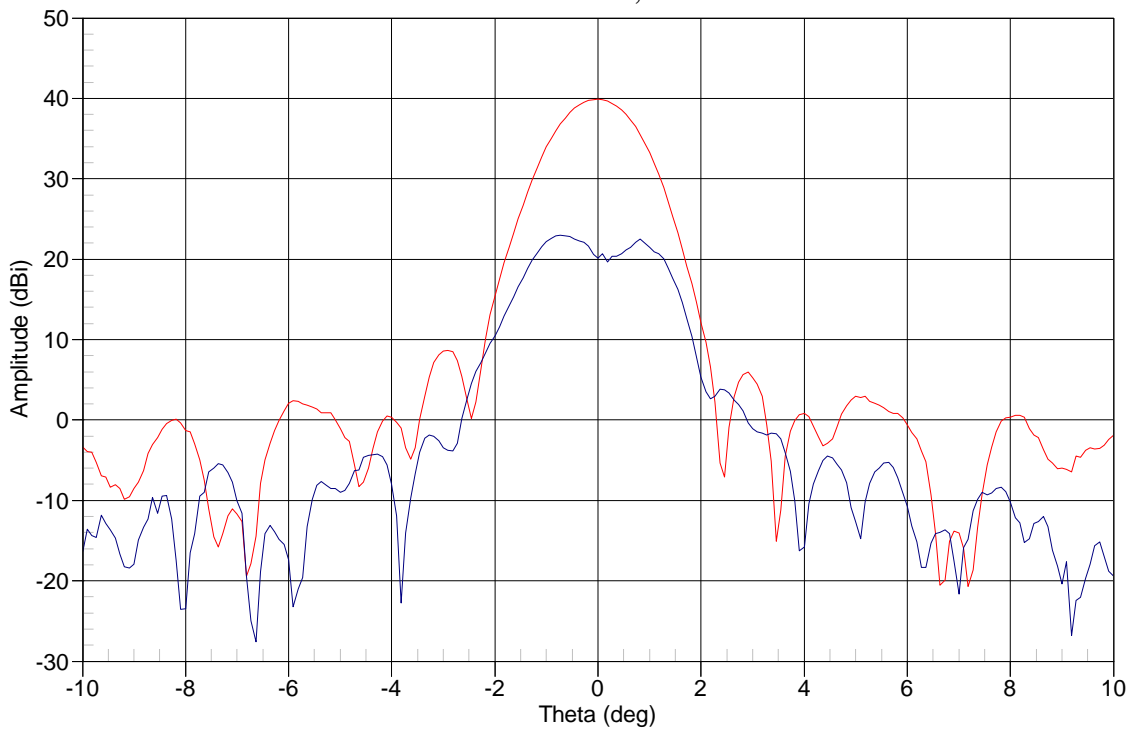
Gain Analysis



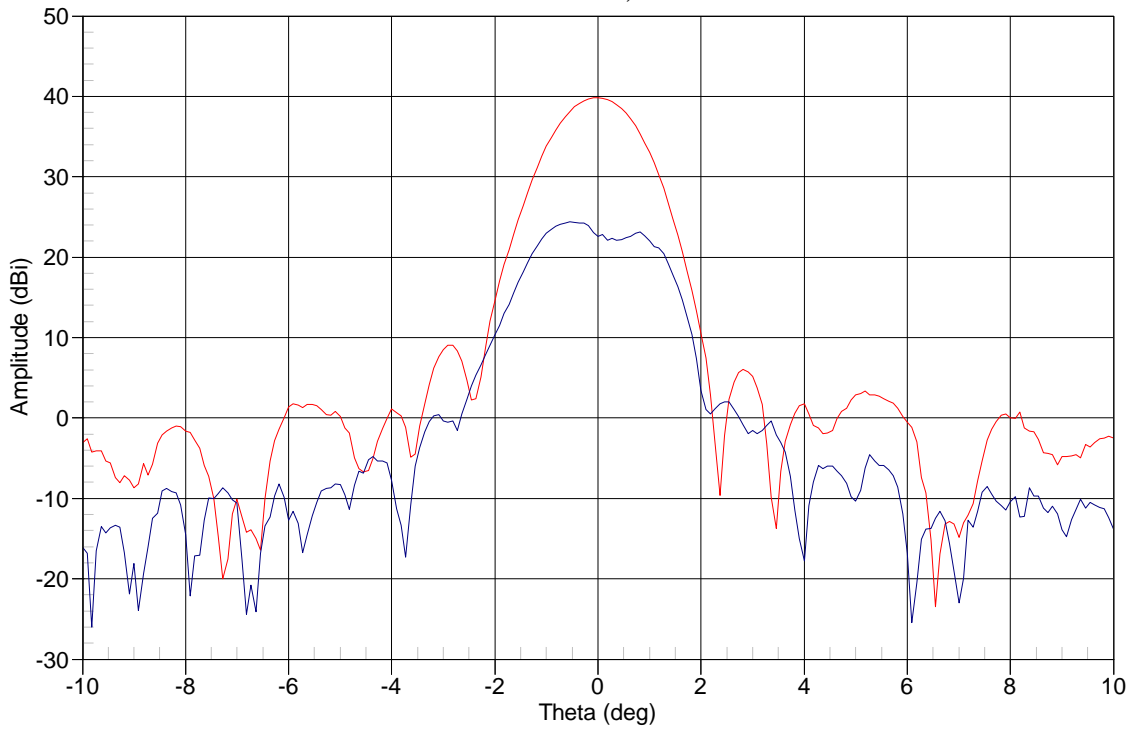
RHCP Polarization Radiation Patterns (Receive Frequencies):

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Azimuthal Pattern, 18.3 GHz

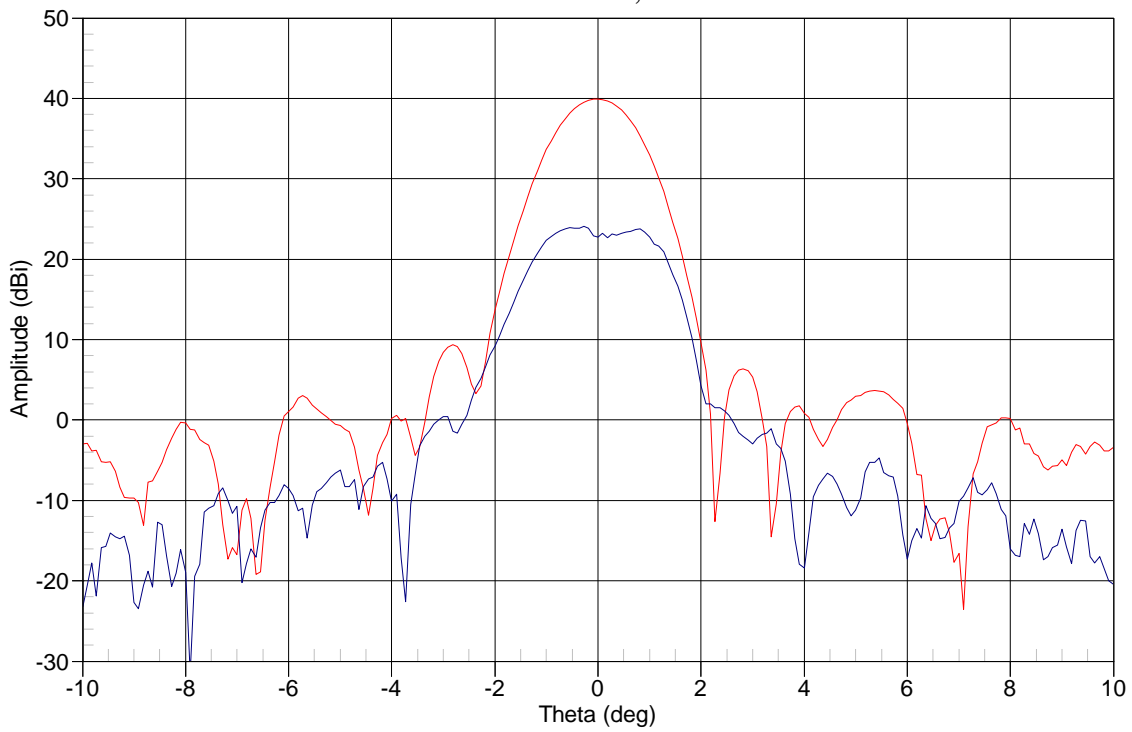


Azimuthal Pattern, 18.55 GHz

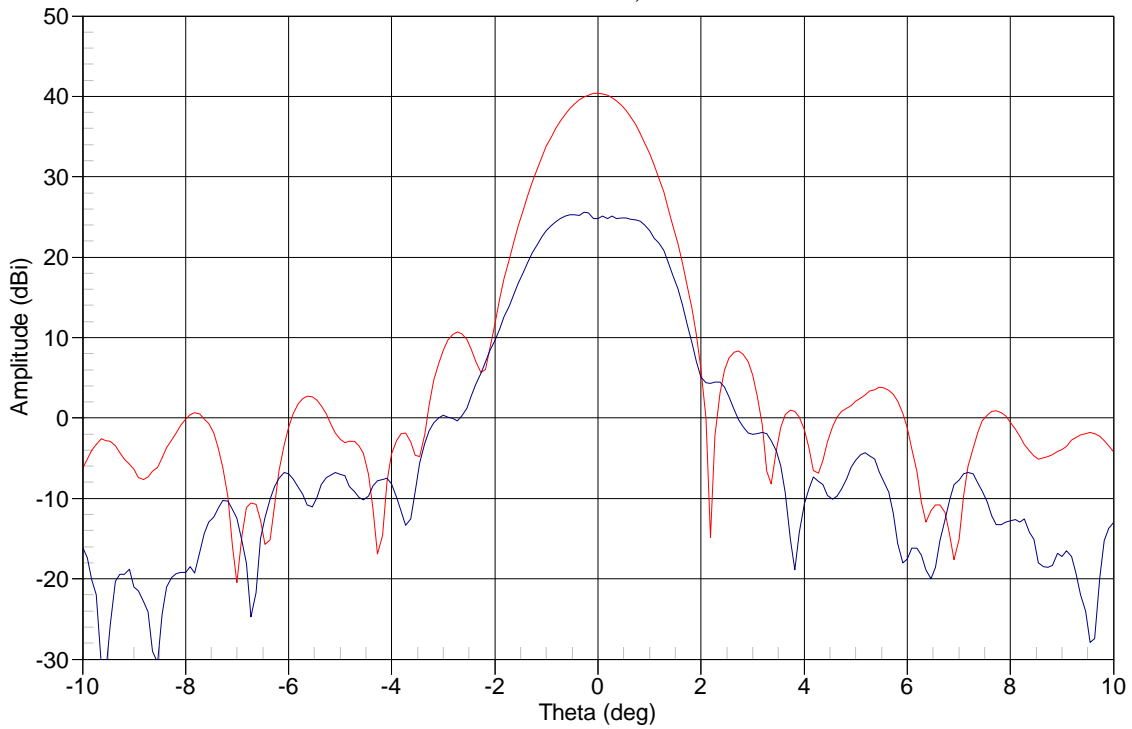


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Azimuthal Pattern, 18.8 GHz

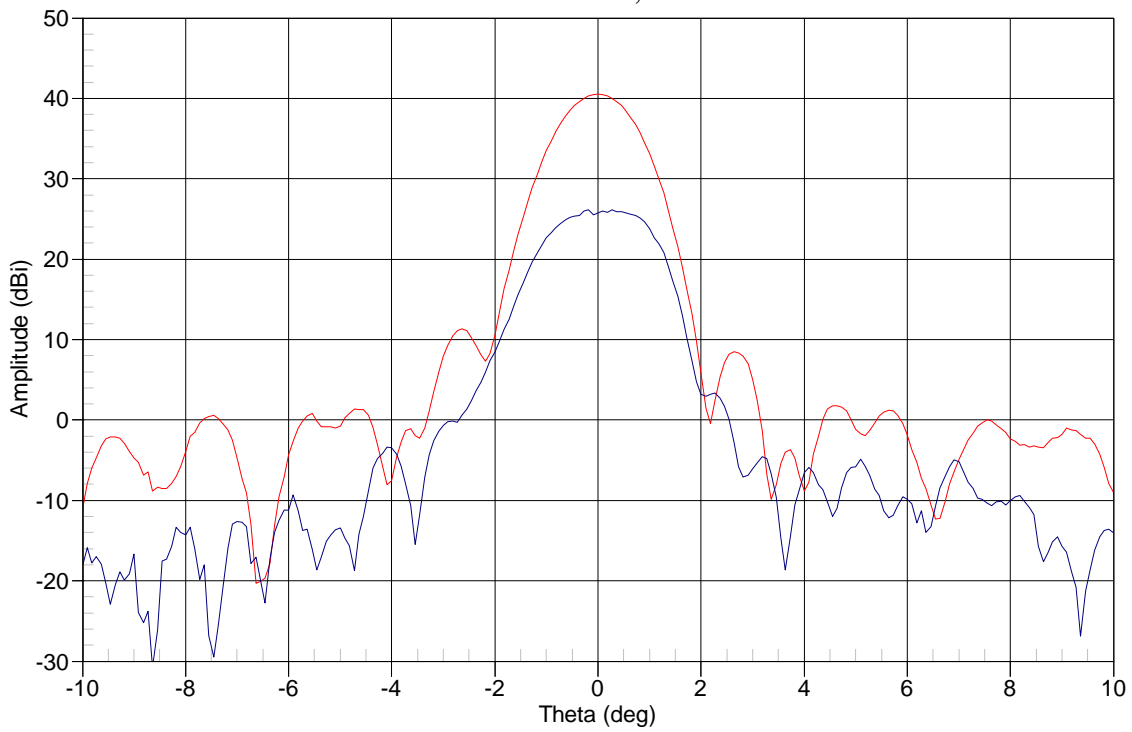


Azimuthal Pattern, 19.3 GHz

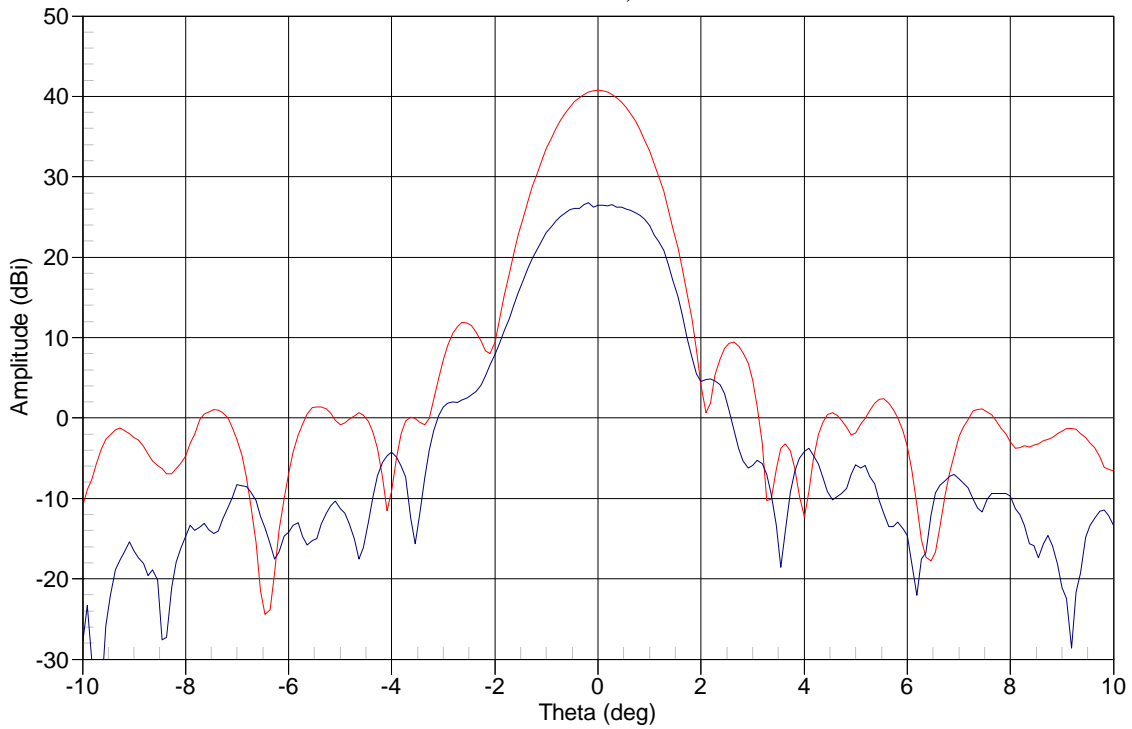


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Azimuthal Pattern, 19.7 GHz

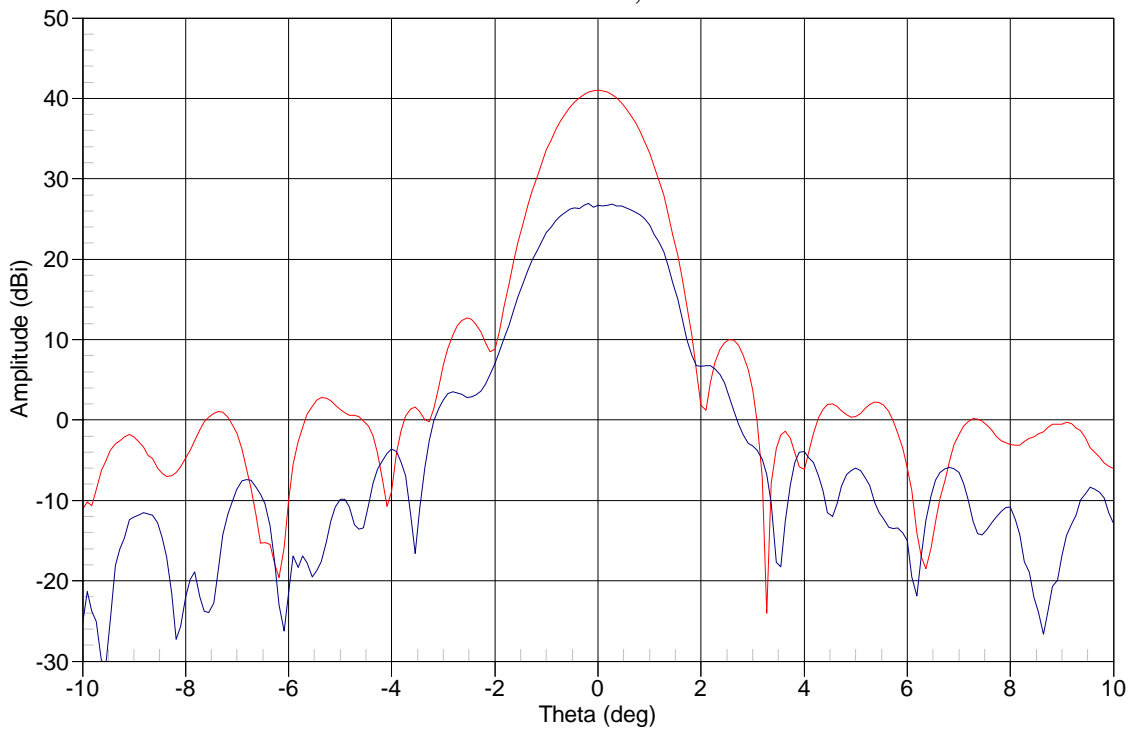


Azimuthal Pattern, 19.95 GHz

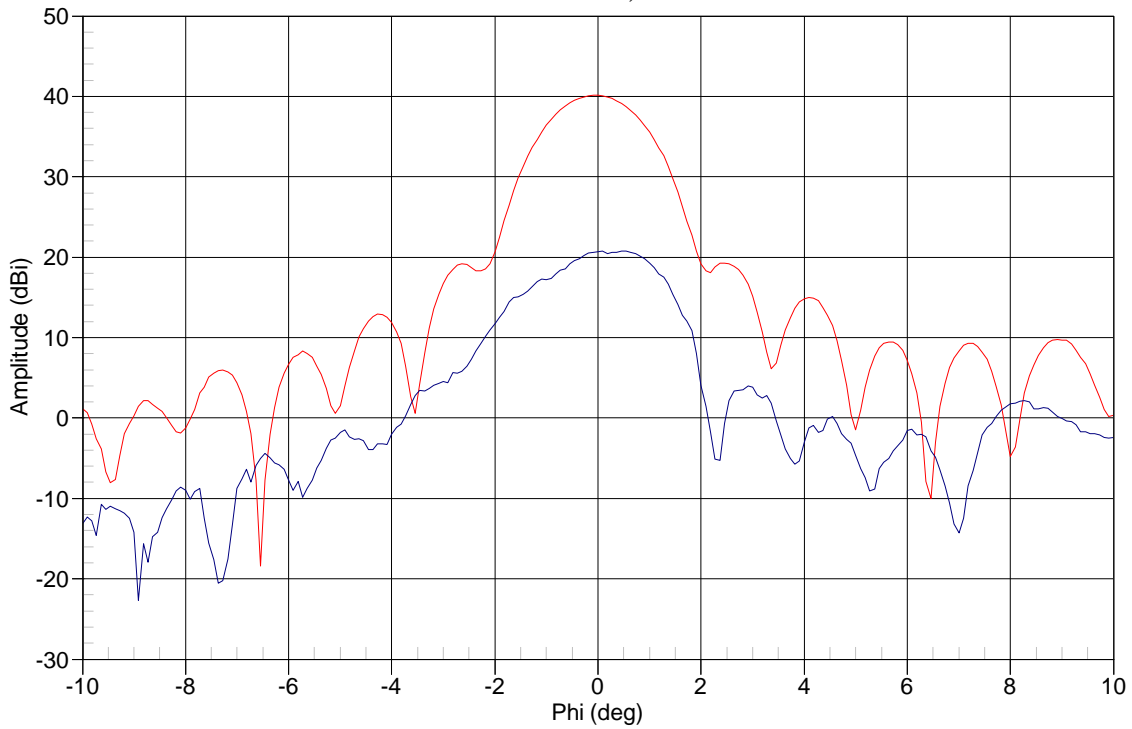


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Azimuthal Pattern, 20.2 GHz

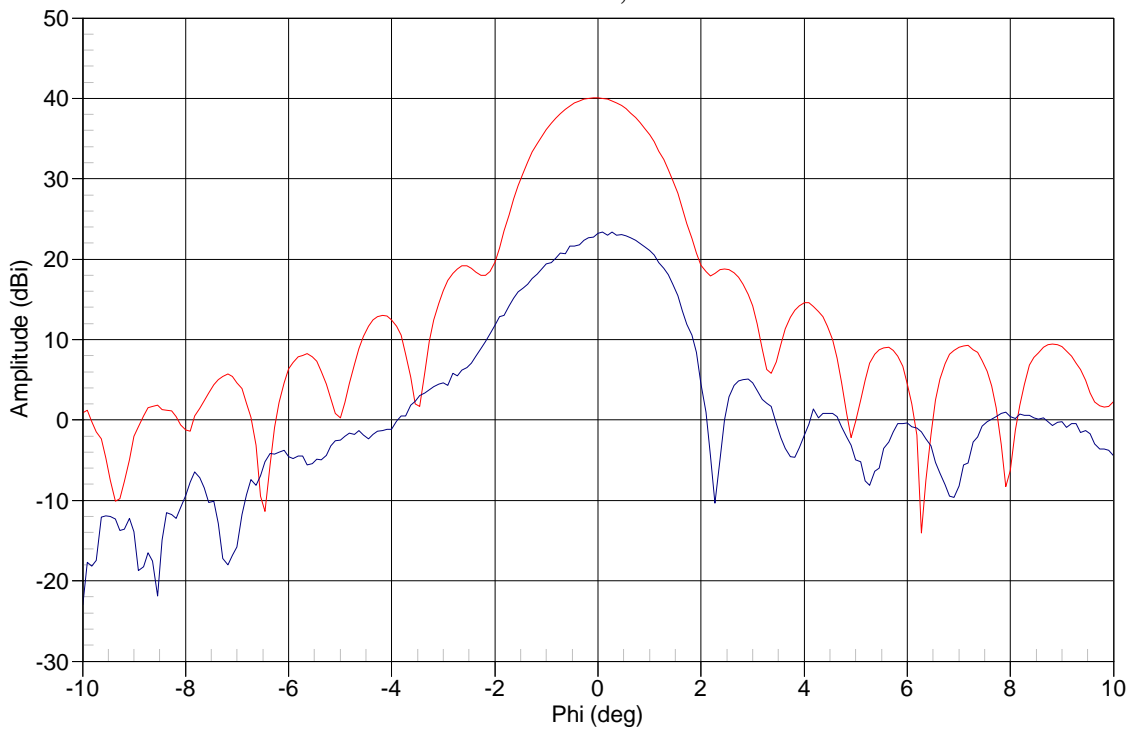


Elevation Pattern, 18.3 GHz

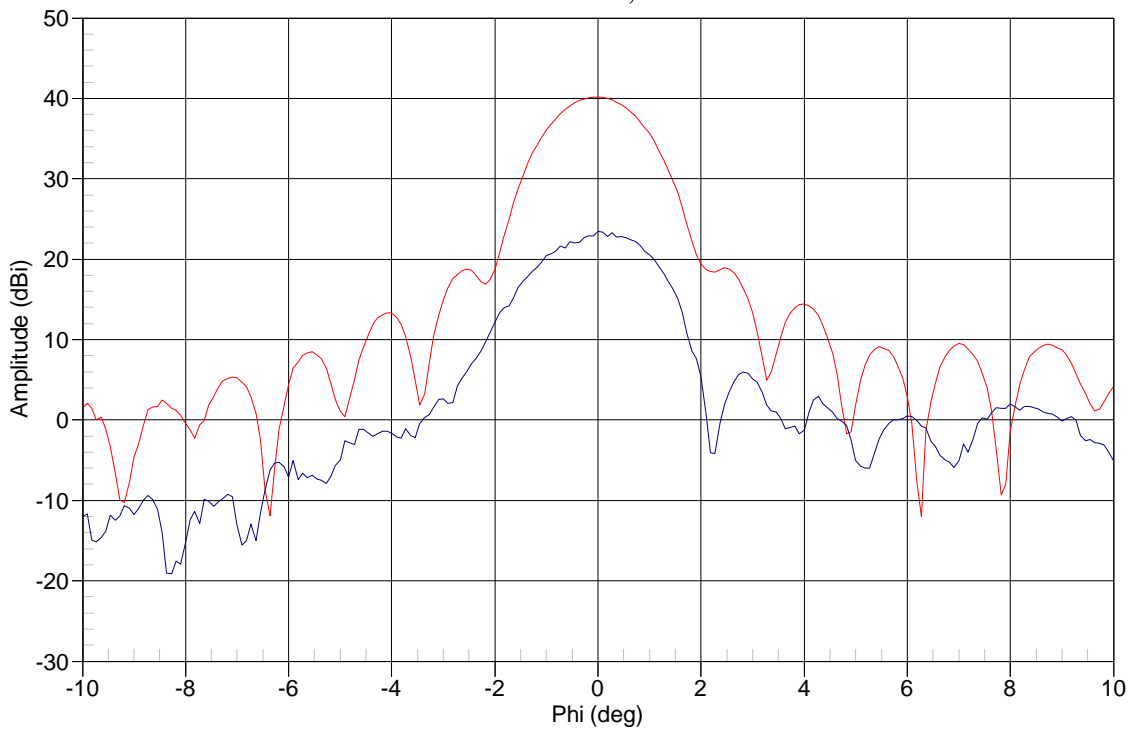


WINEGARD

Elevation Pattern, 18.55 GHz

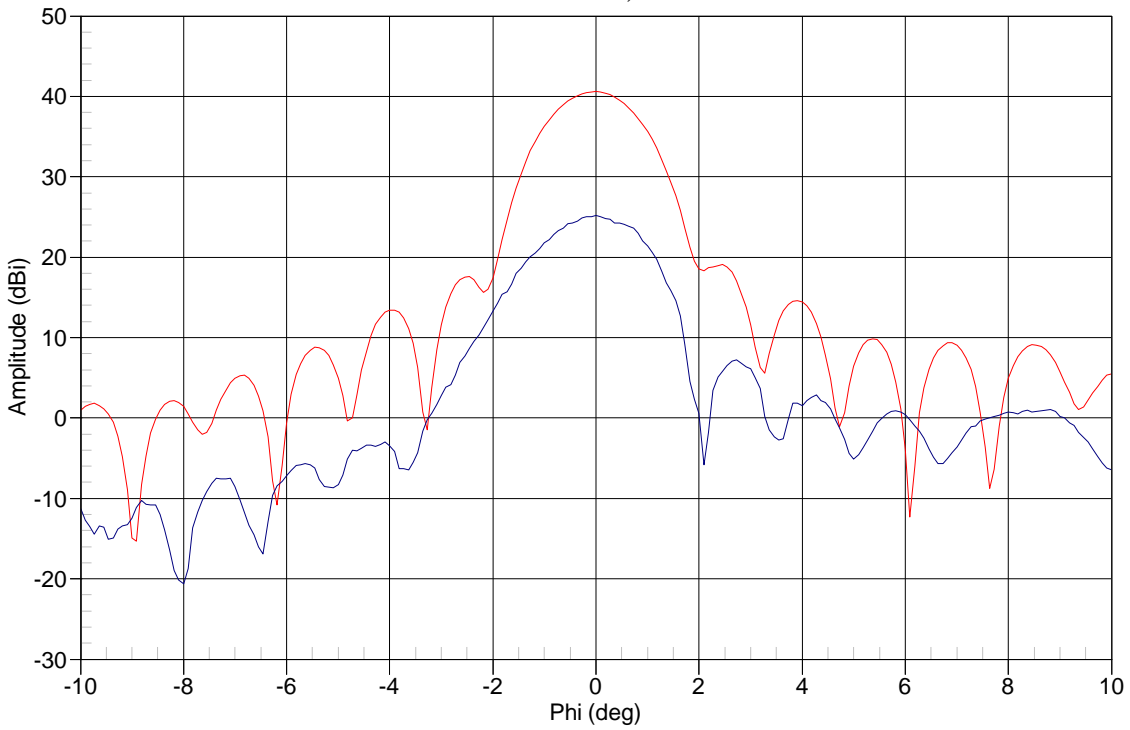


Elevation Pattern, 18.8 GHz

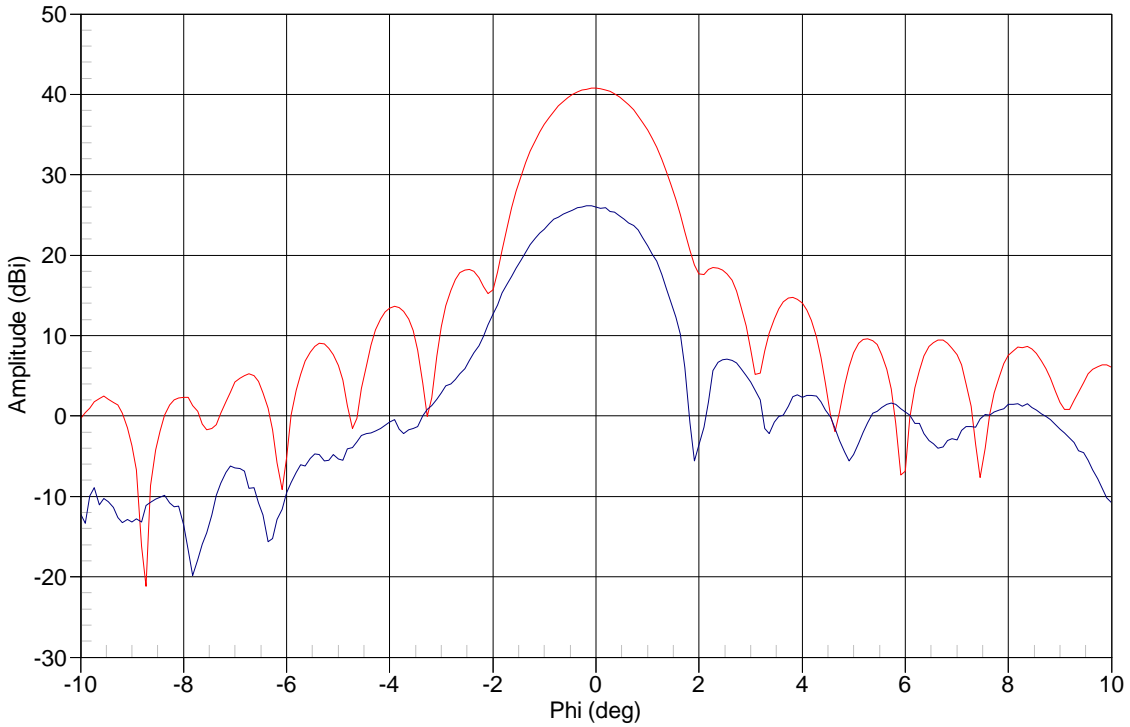


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Elevation Pattern, 19.3 GHz

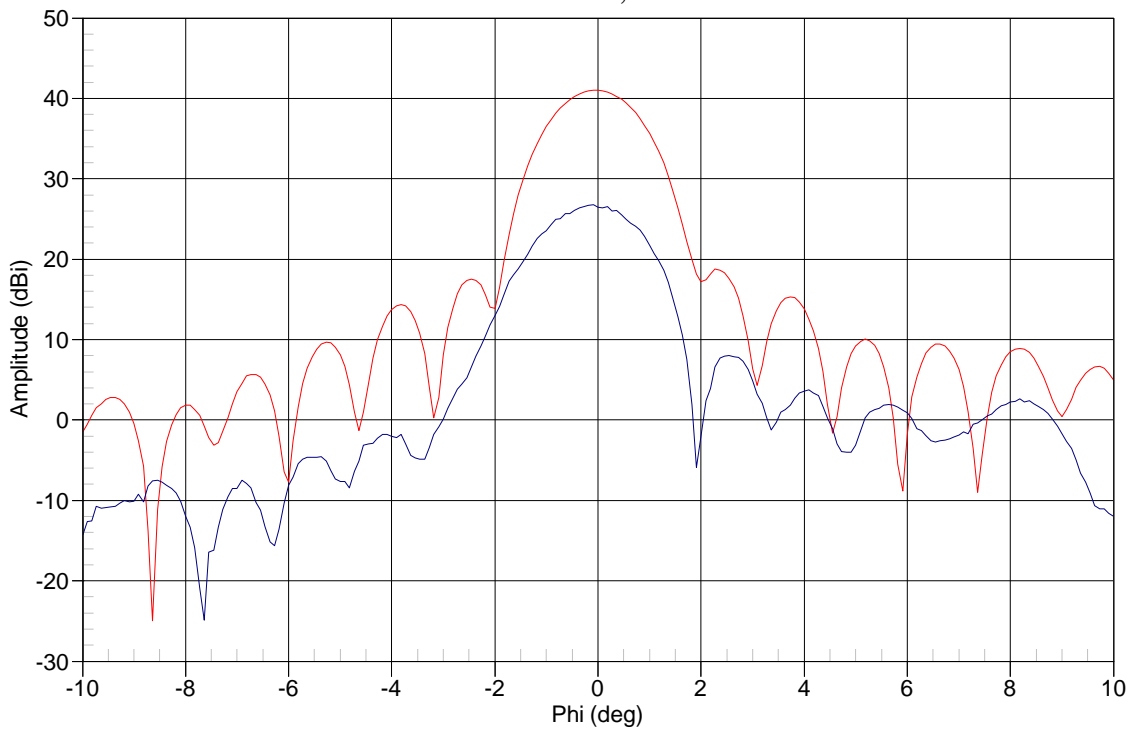


Elevation Pattern, 19.7 GHz

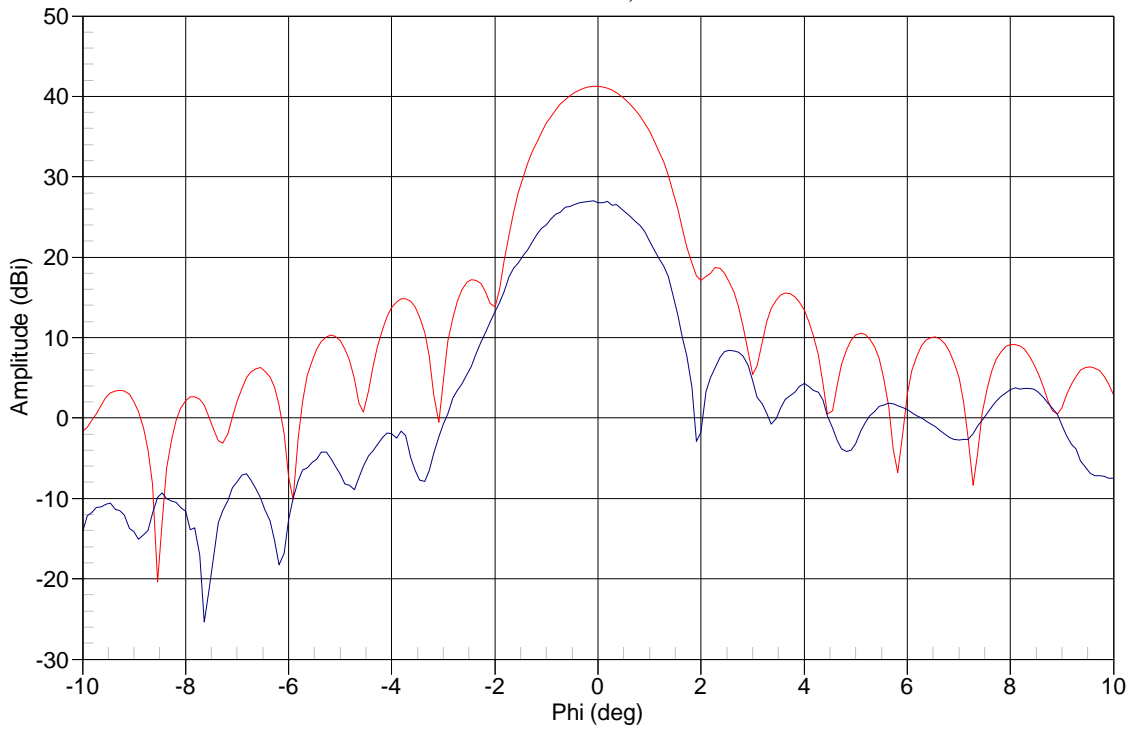


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Elevation Pattern, 19.95 GHz

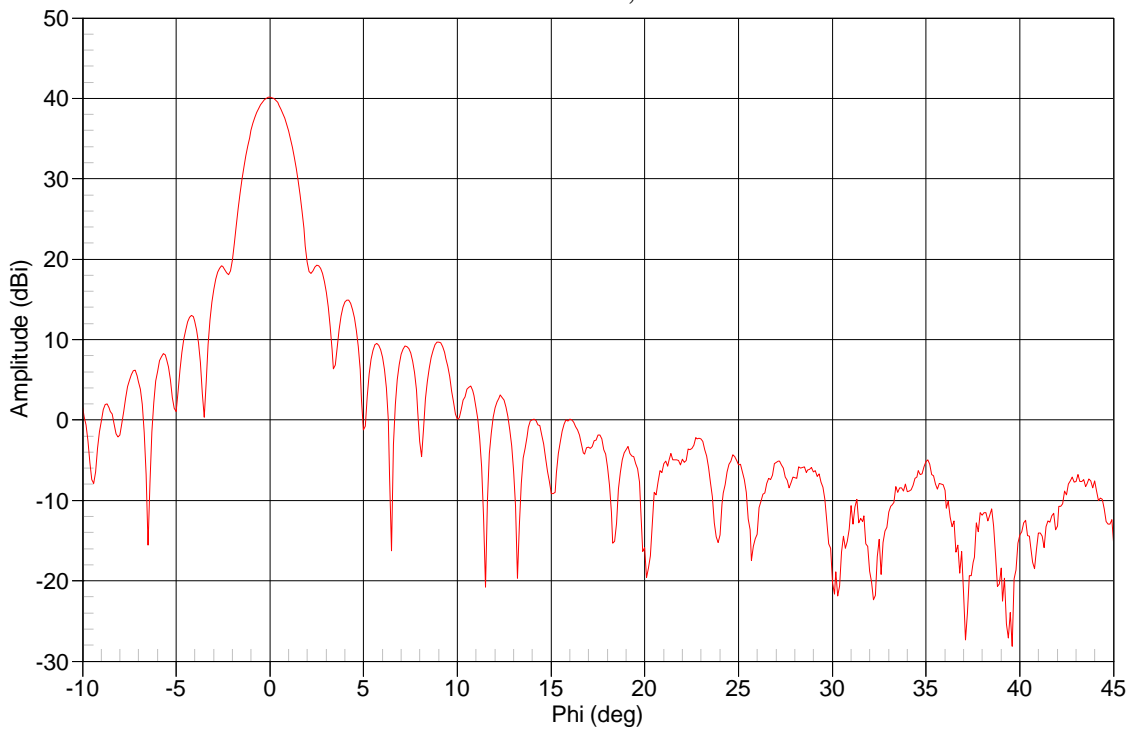


Elevation Pattern, 20.2 GHz

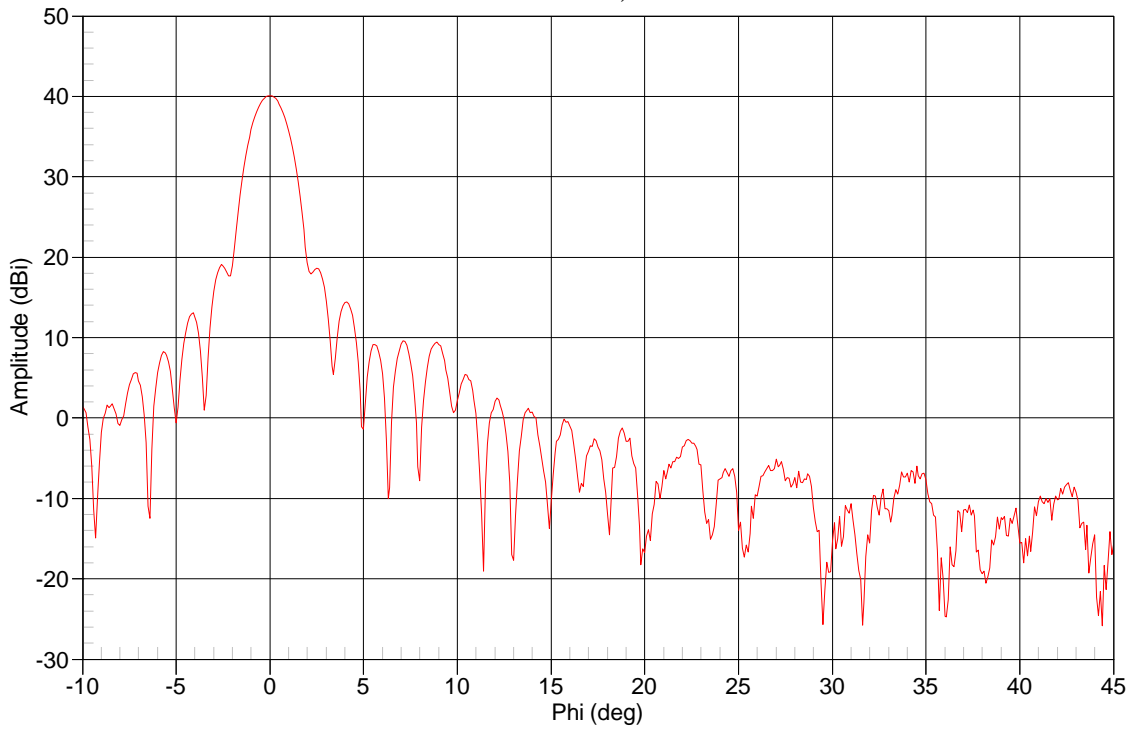


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Elevation Pattern, 18.3 GHz

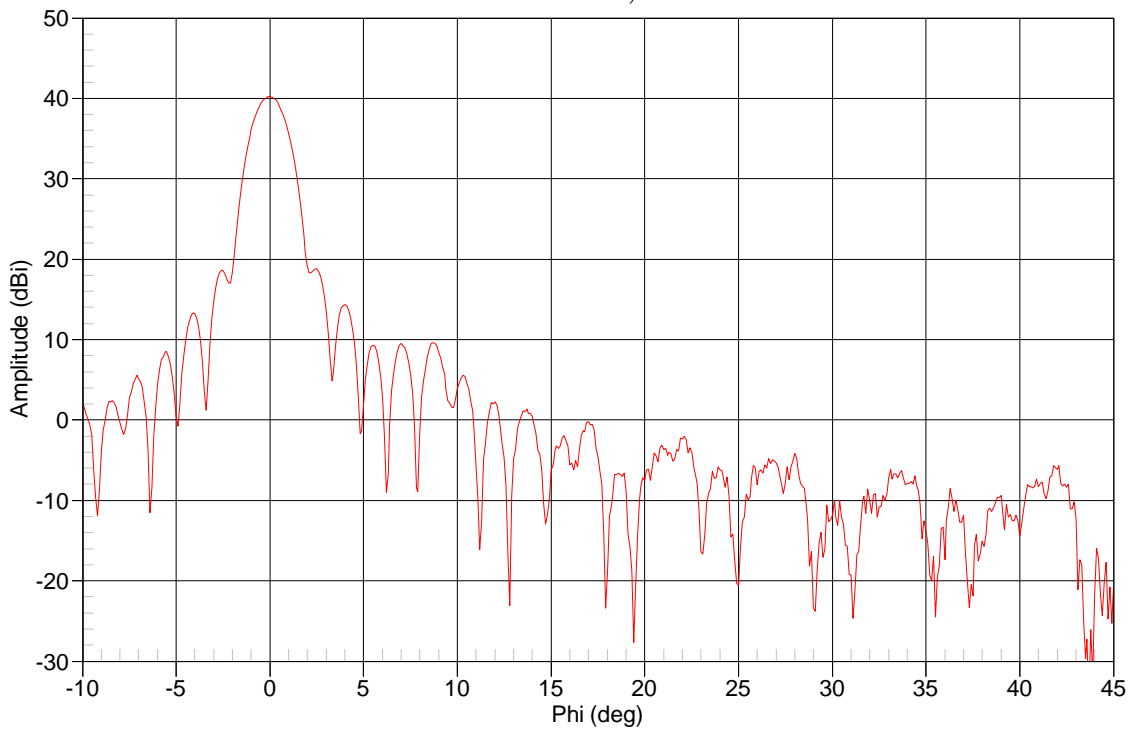


Elevation Pattern, 18.55 GHz

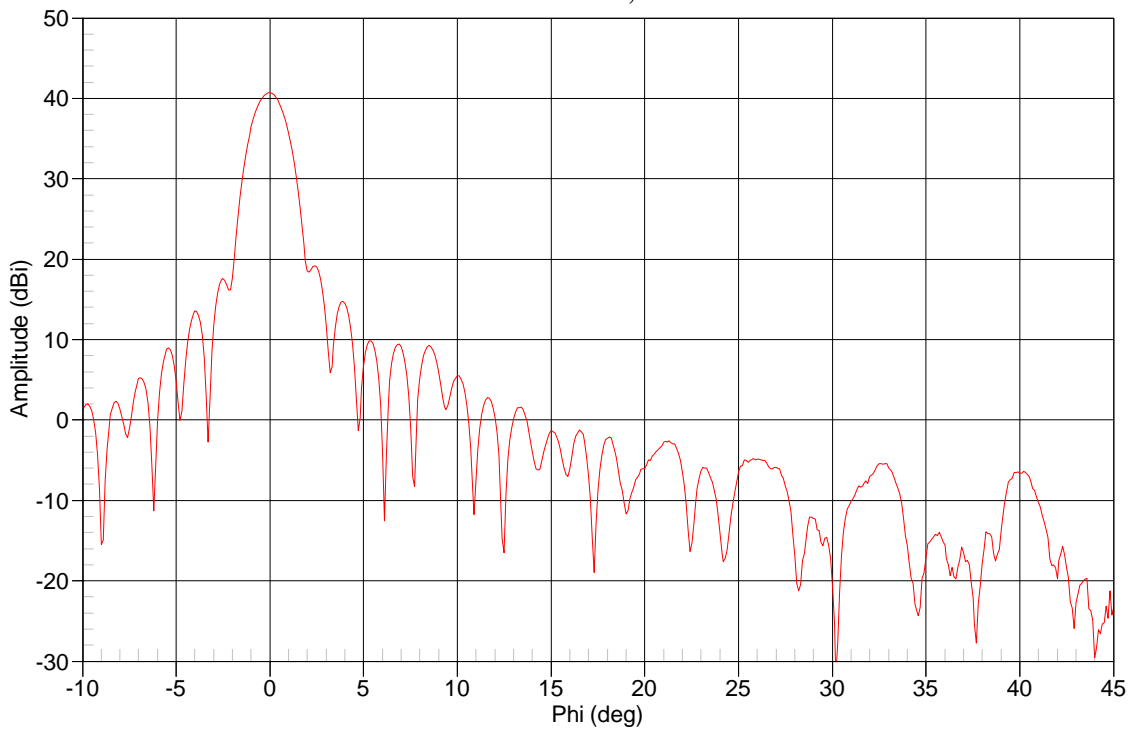


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Elevation Pattern, 18.8 GHz

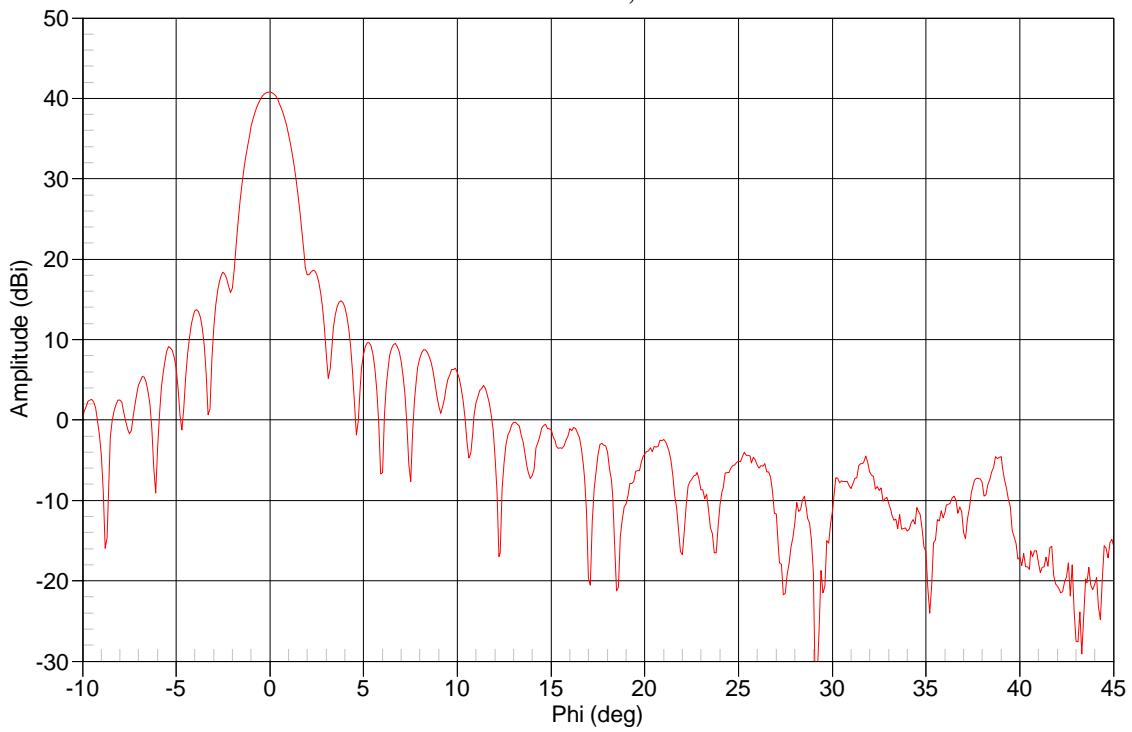


Elevation Pattern, 19.3 GHz

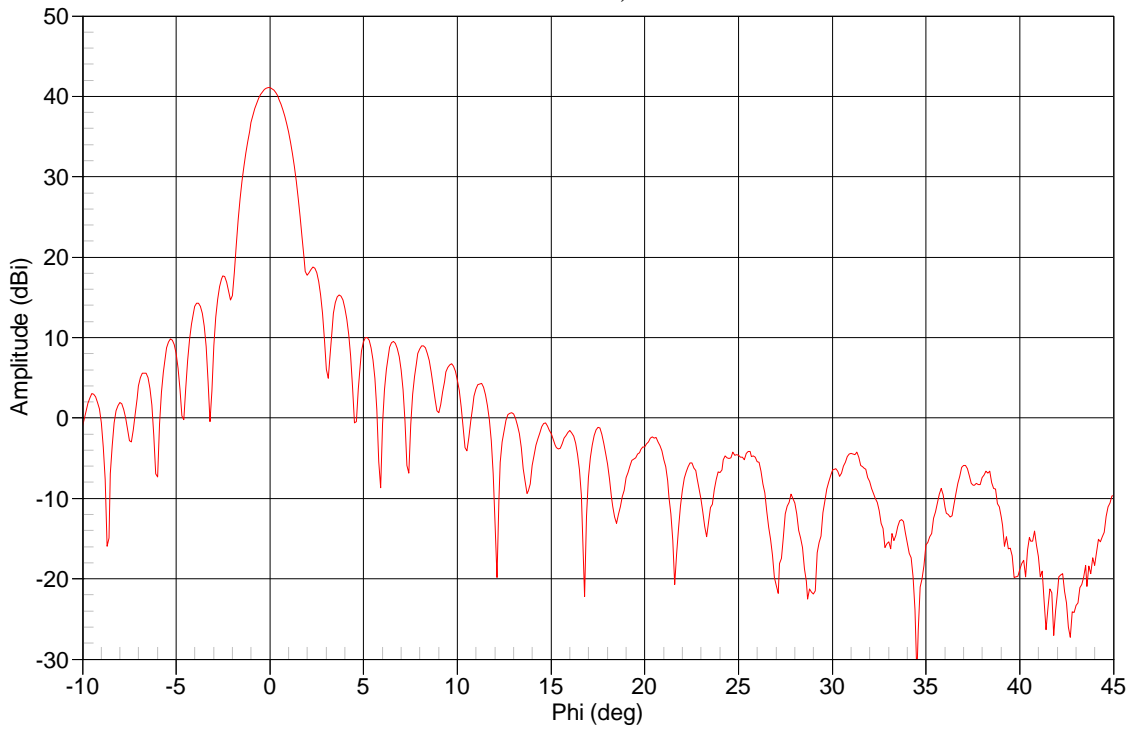


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Elevation Pattern, 19.7 GHz

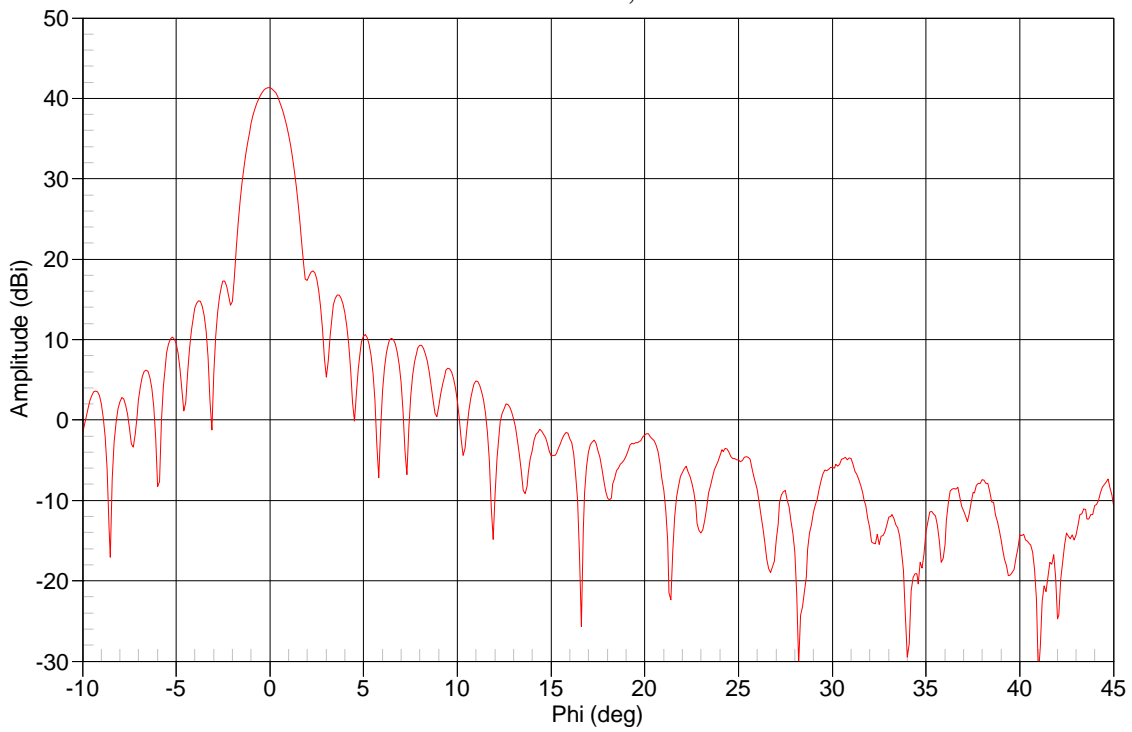


Elevation Pattern, 19.95 GHz

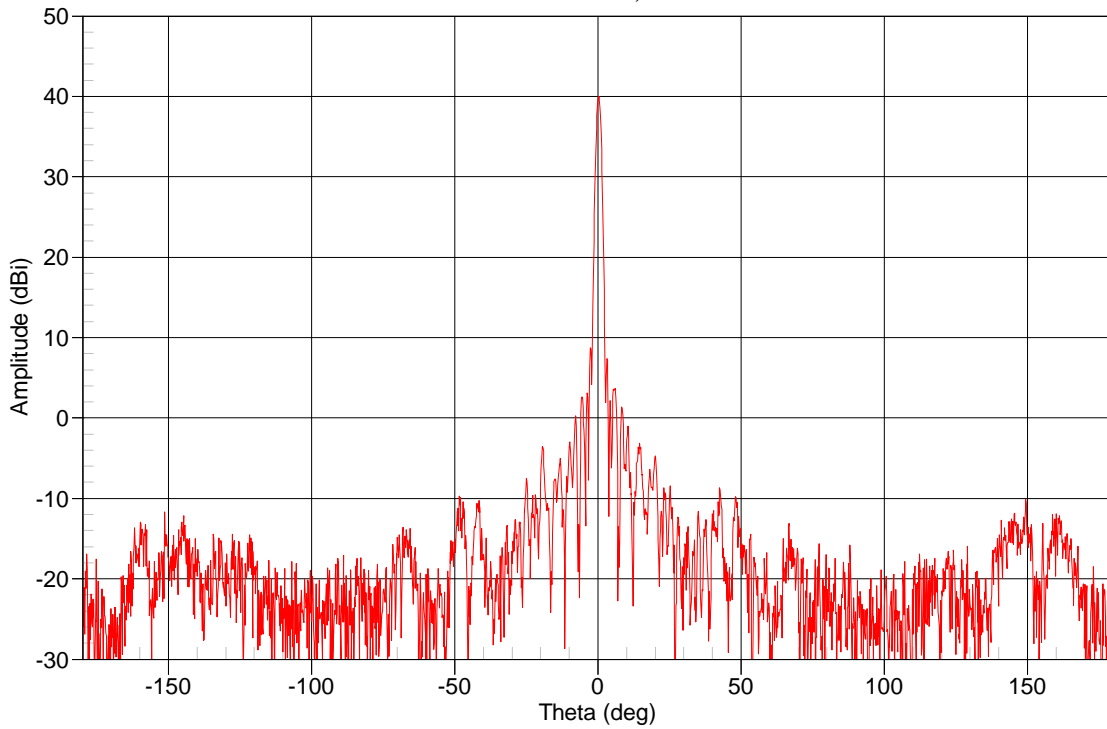


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Elevation Pattern, 20.2 GHz

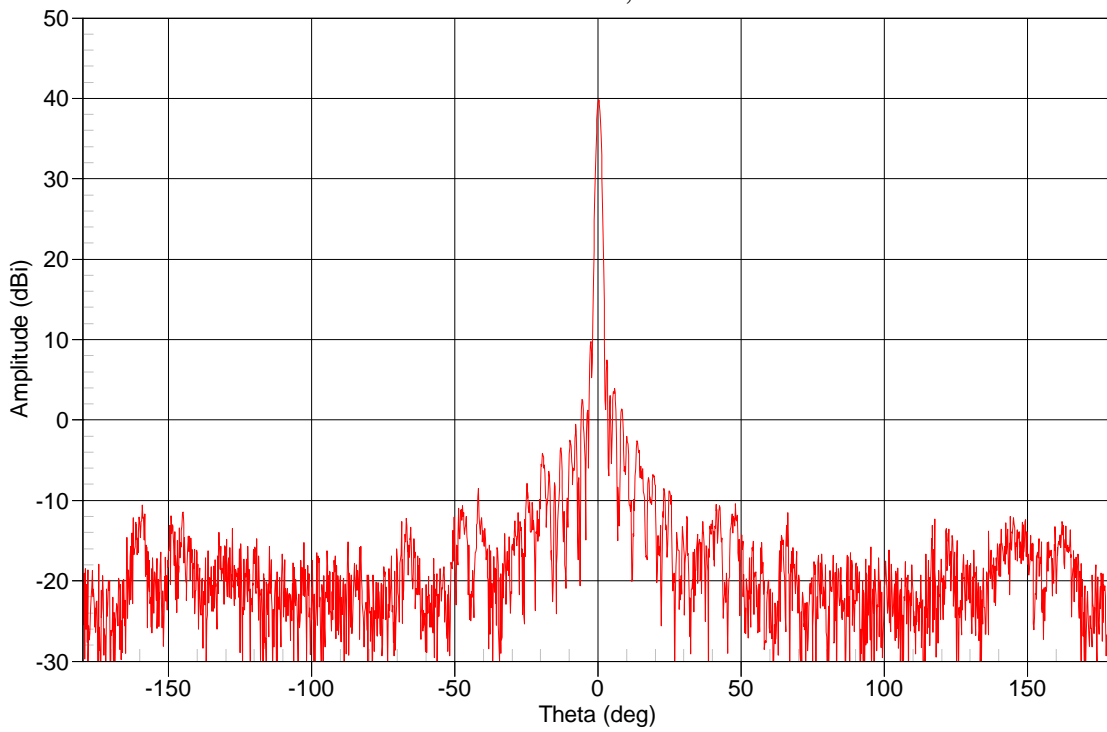


Azimuthal Pattern, 18.3 GHz

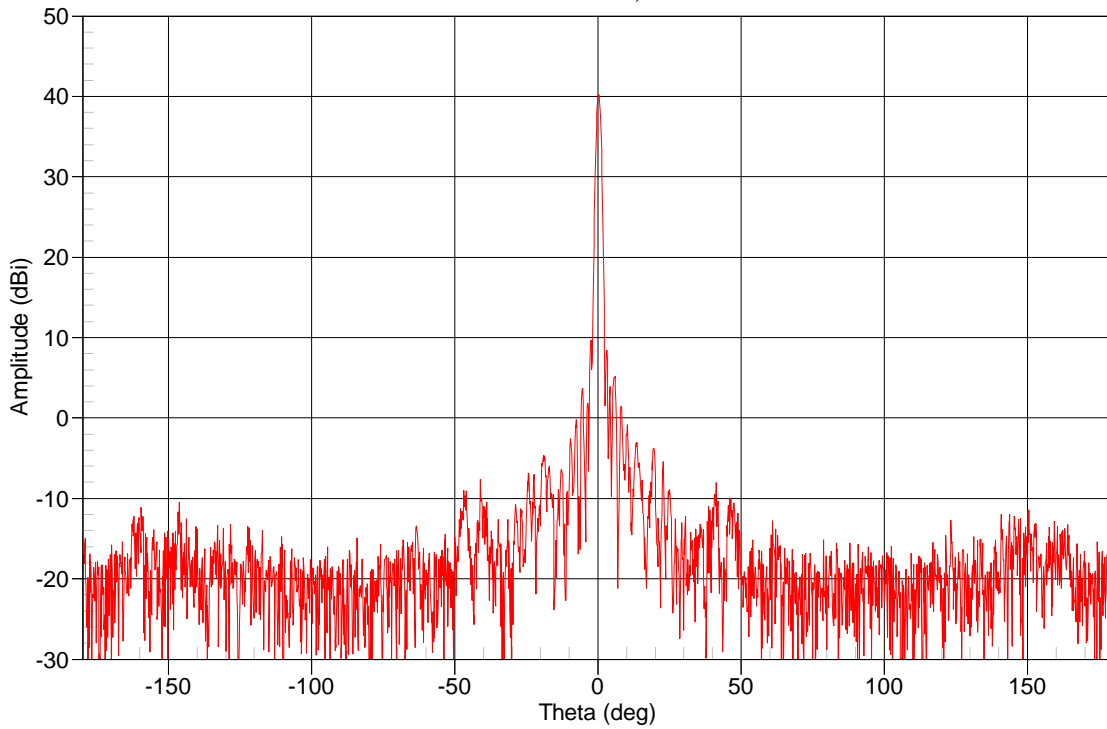


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Azimuthal Pattern, 18.55 GHz

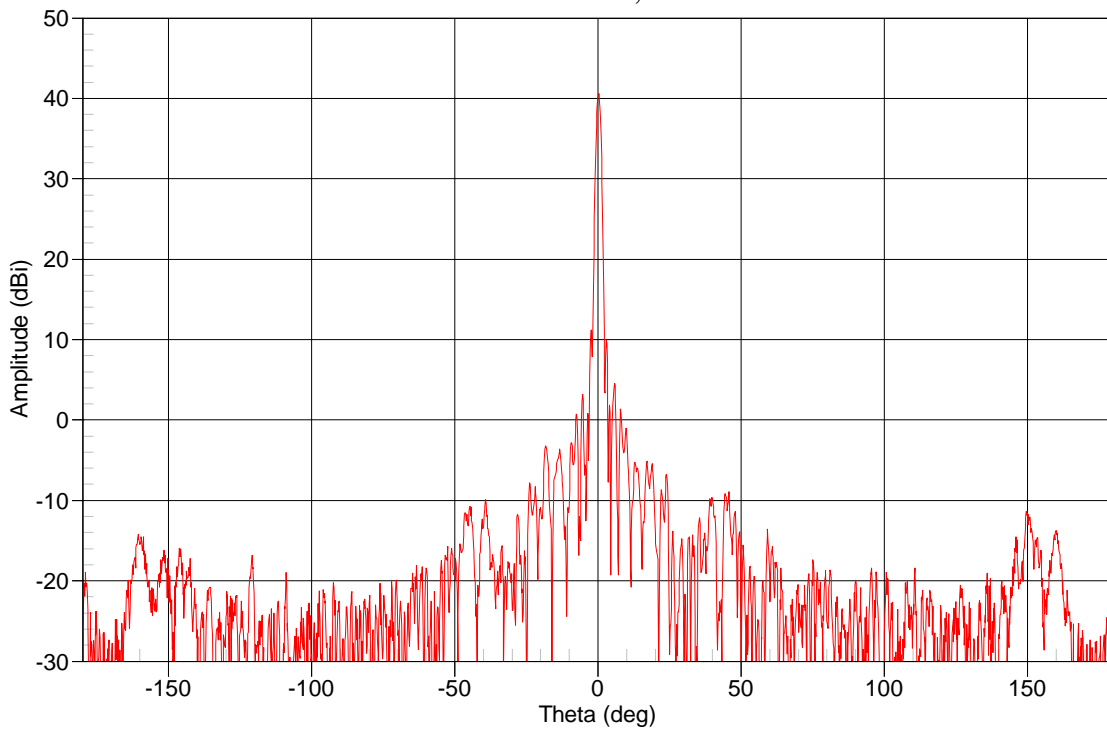


Azimuthal Pattern, 18.8 GHz

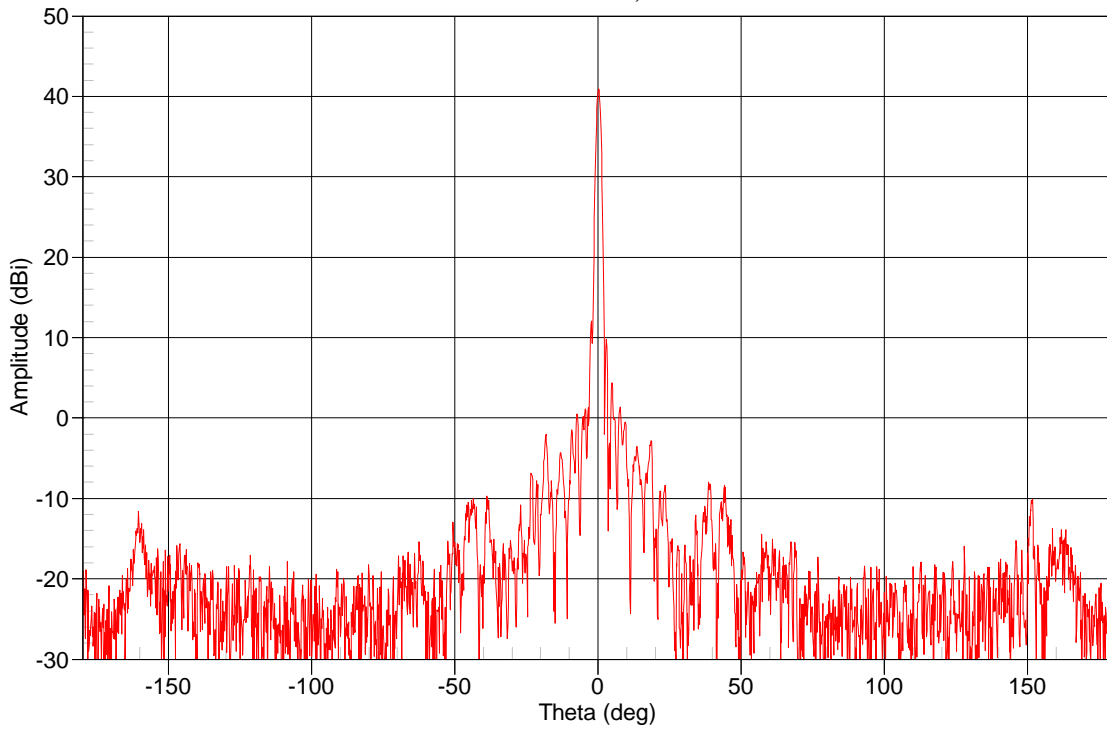


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Azimuthal Pattern, 19.3 GHz

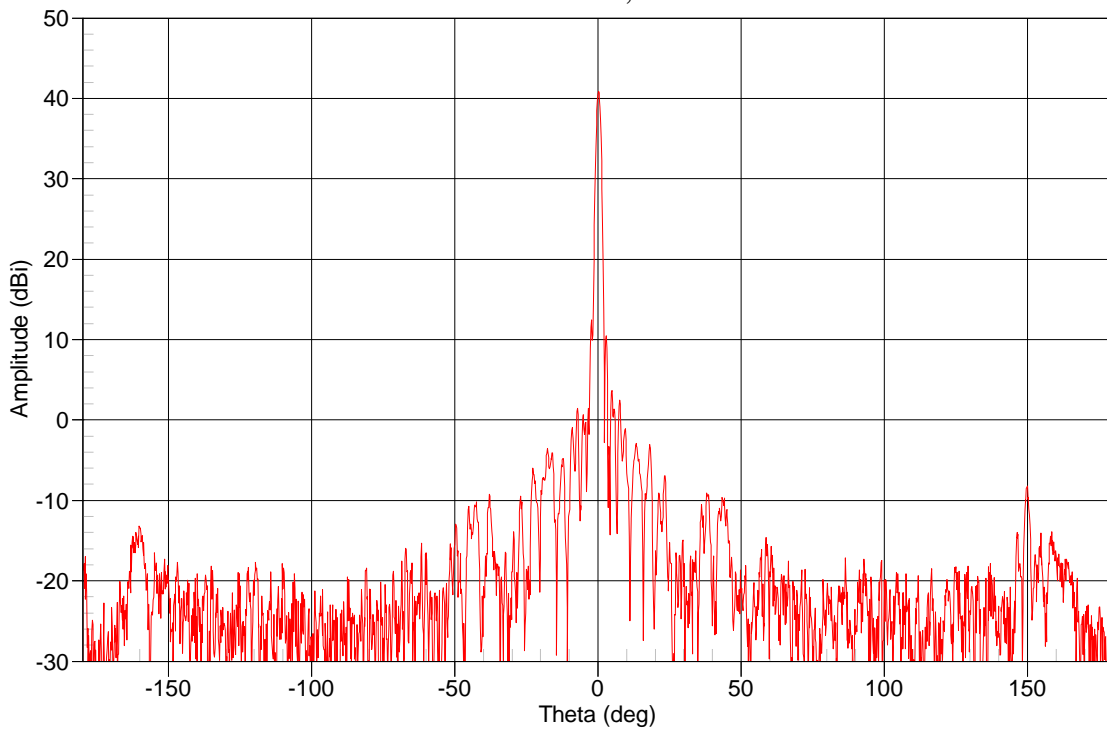


Azimuthal Pattern, 19.7 GHz

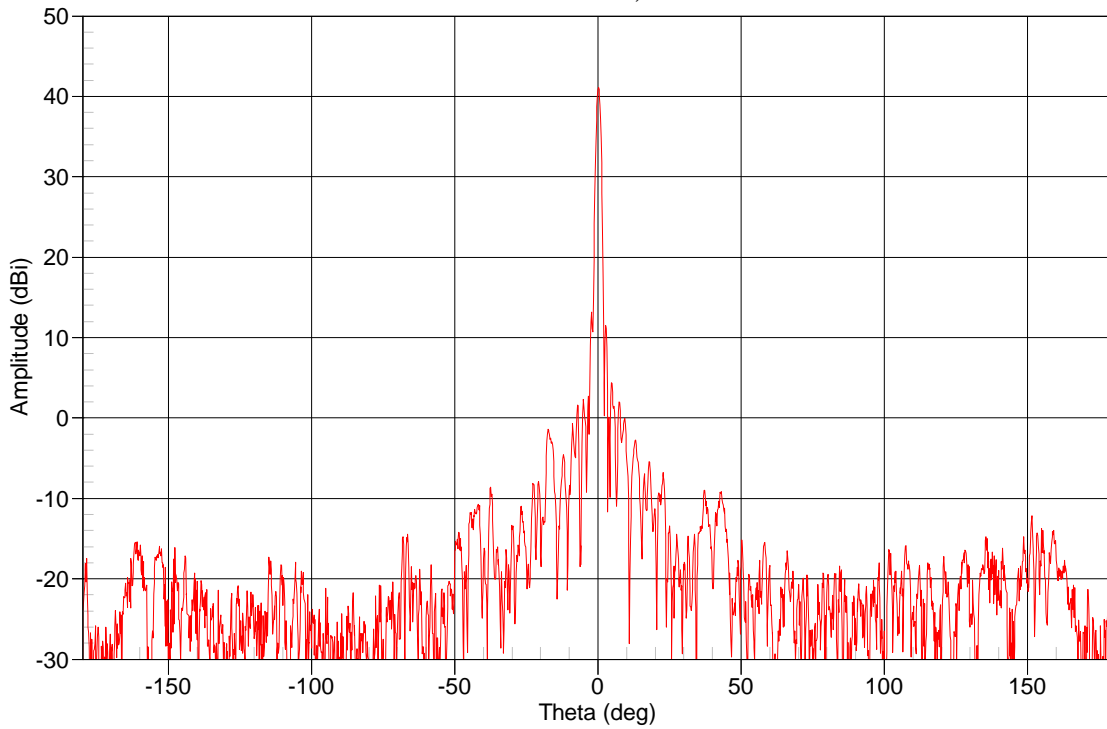


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Azimuthal Pattern, 19.95 GHz



Azimuthal Pattern, 20.2 GHz

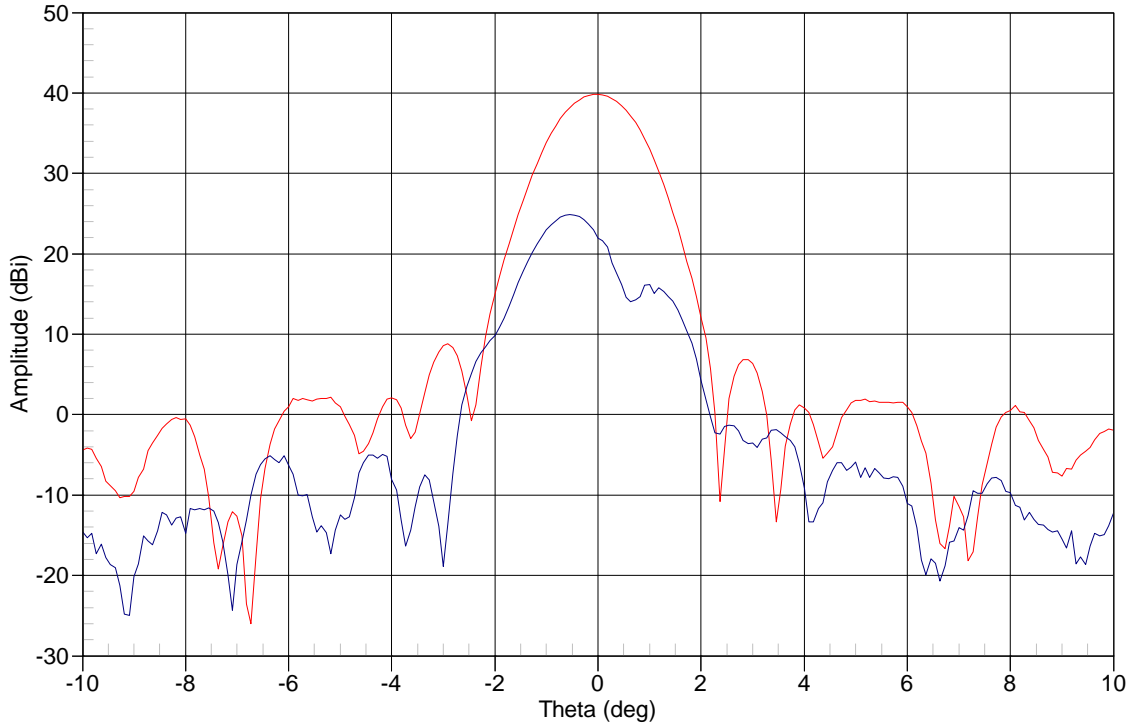


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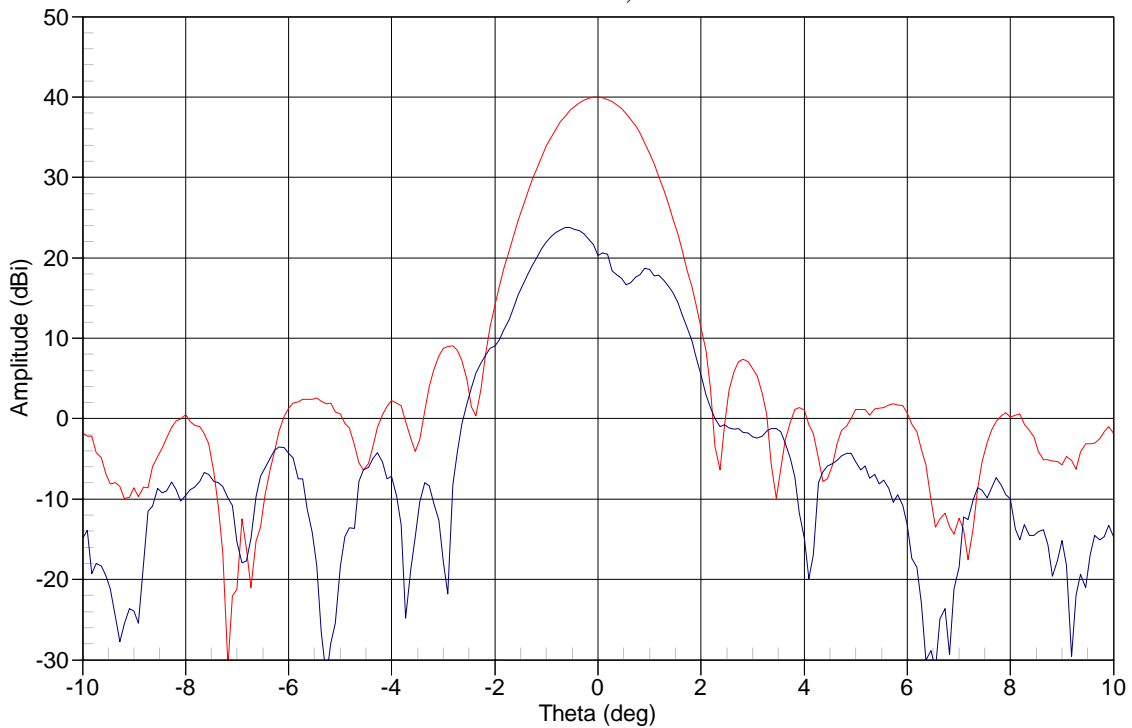
LHCP Polarization Radiation Patterns (Receive Frequencies):

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Azimuthal Pattern, 18.3 GHz

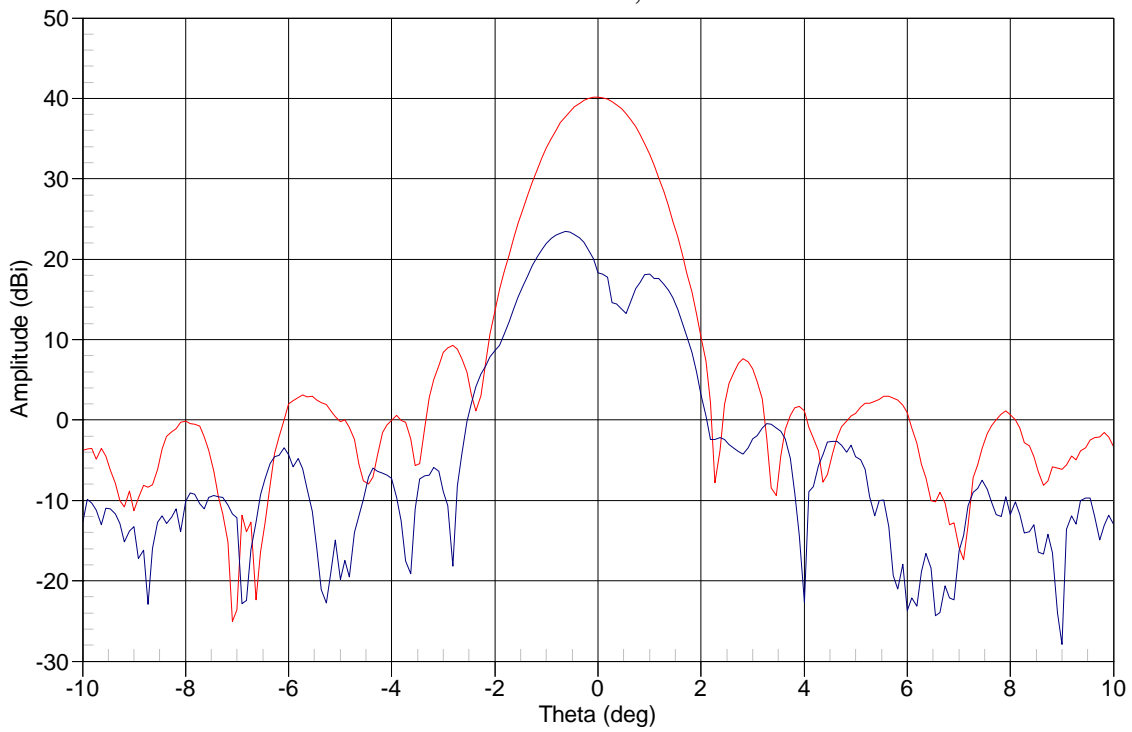


Azimuthal Pattern, 18.55 GHz

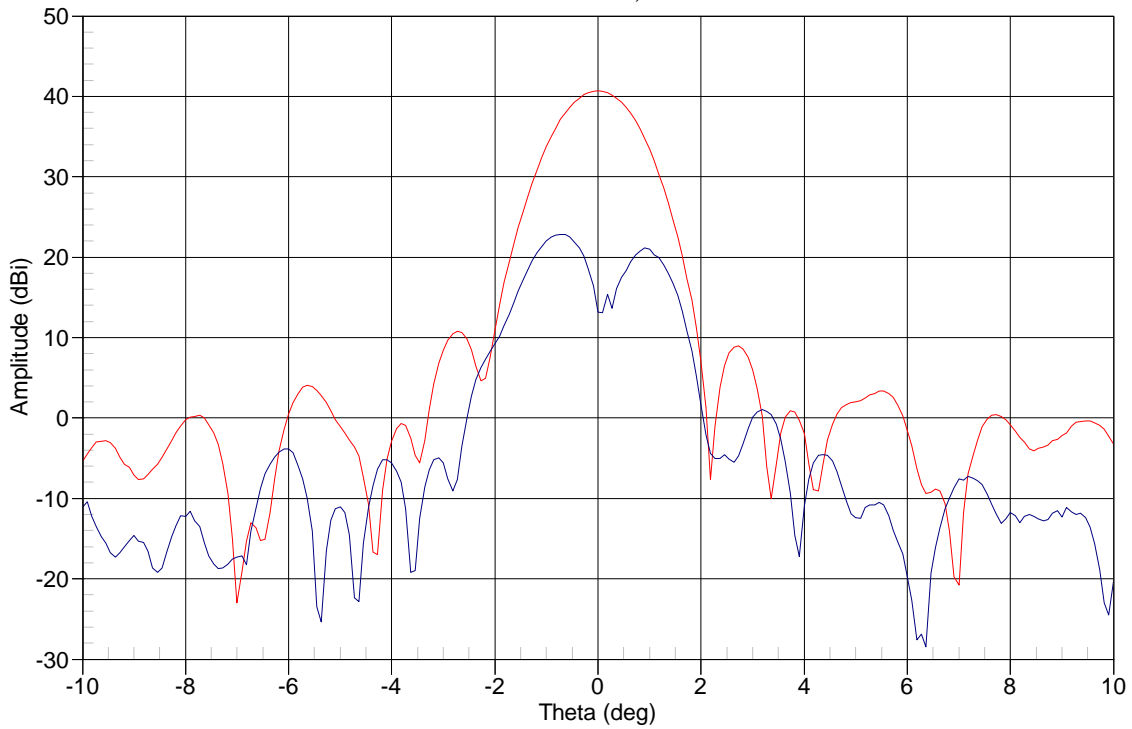


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Azimuthal Pattern, 18.8 GHz

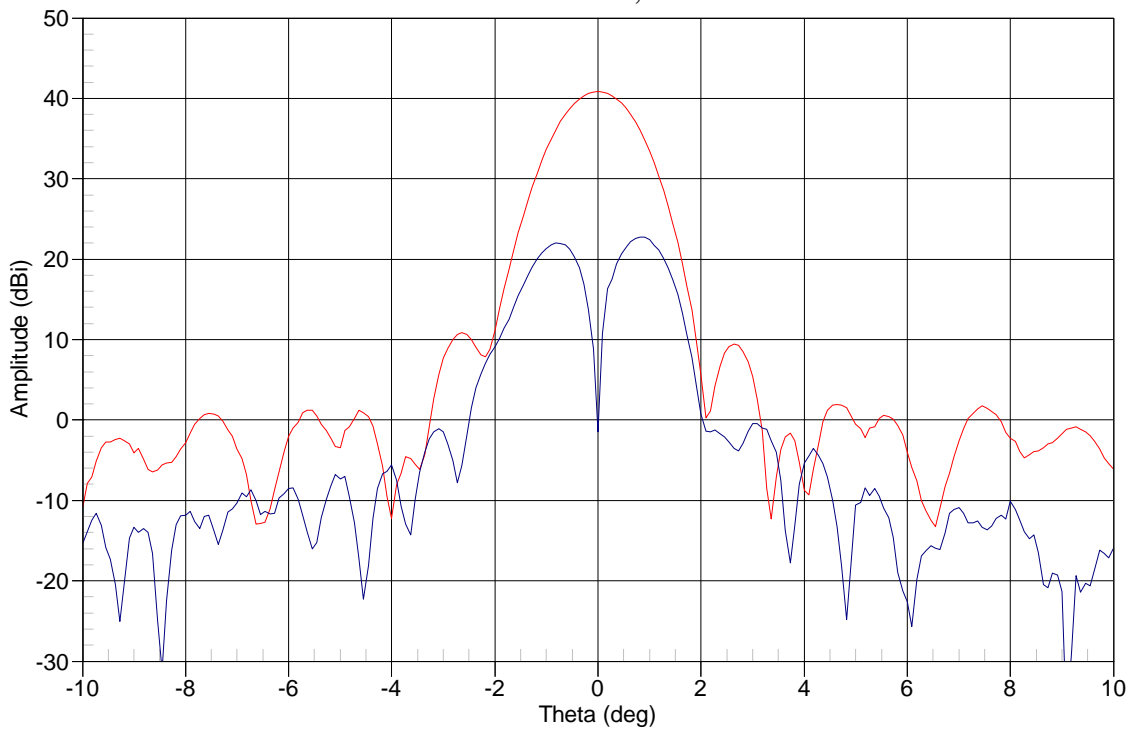


Azimuthal Pattern, 19.3 GHz

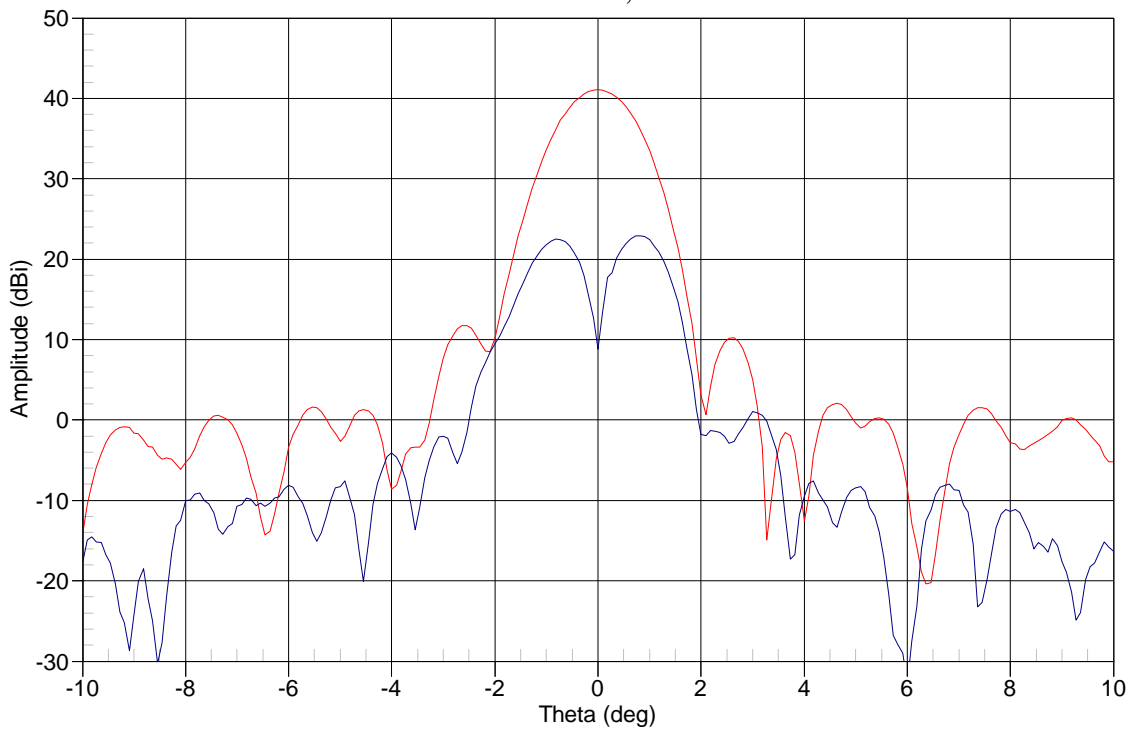


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Azimuthal Pattern, 19.7 GHz

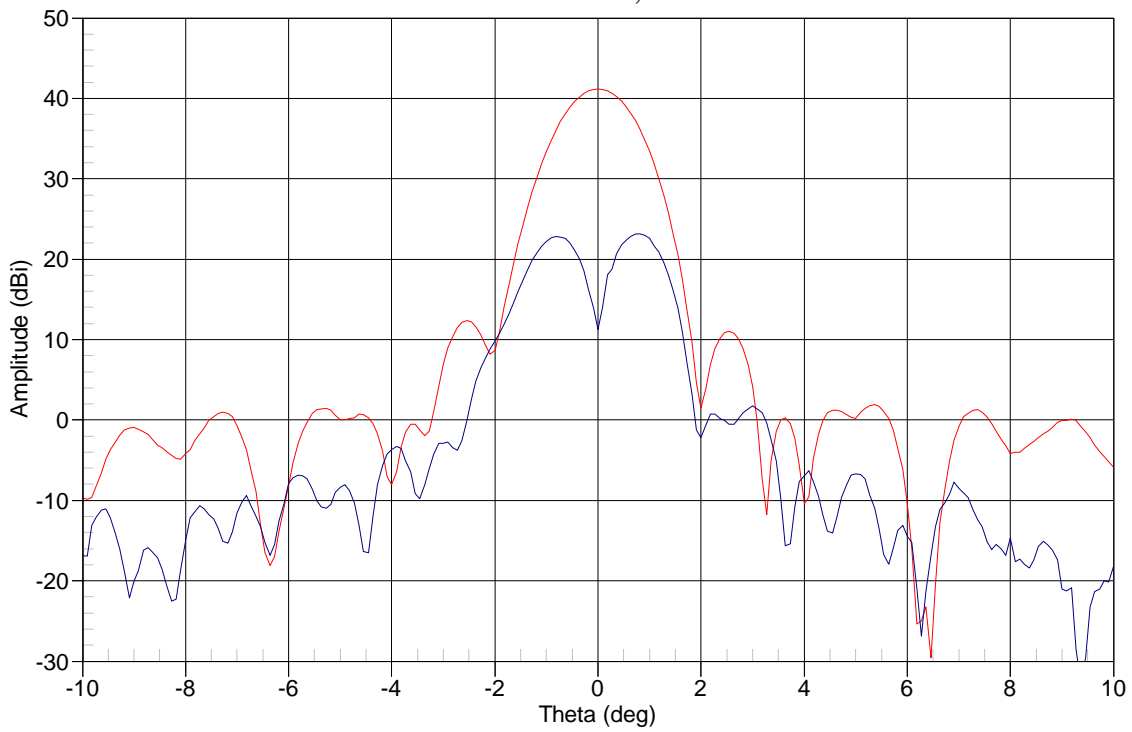


Azimuthal Pattern, 19.95 GHz

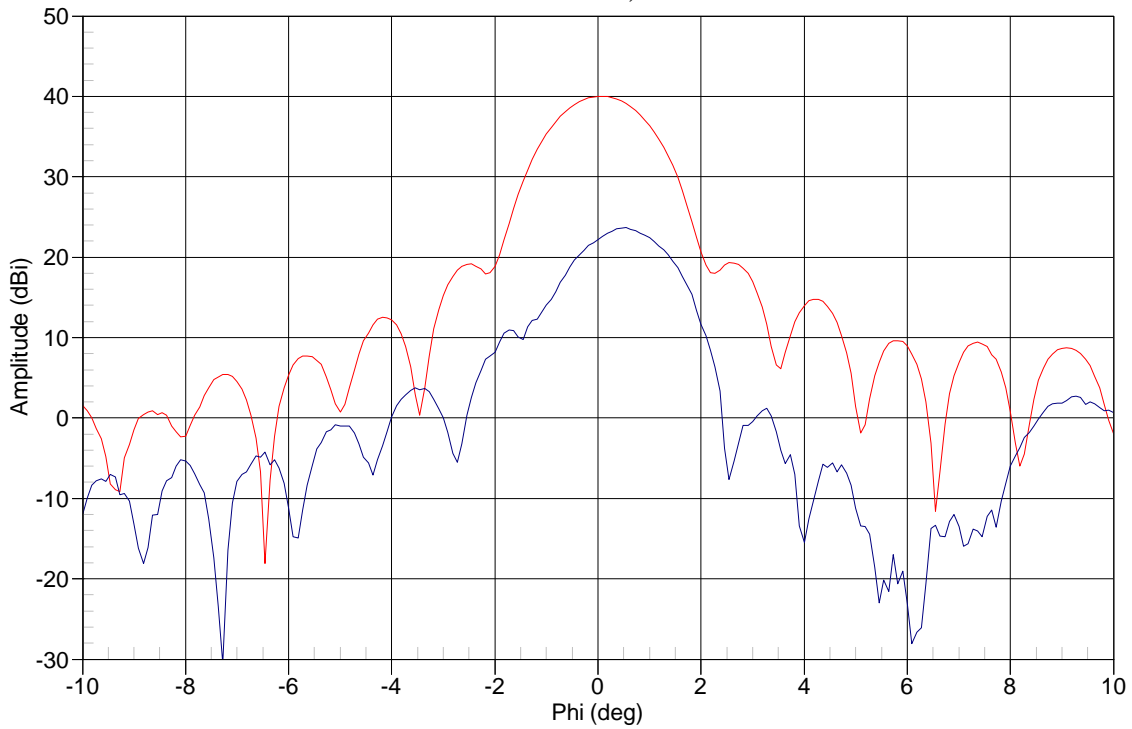


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Azimuthal Pattern, 20.2 GHz

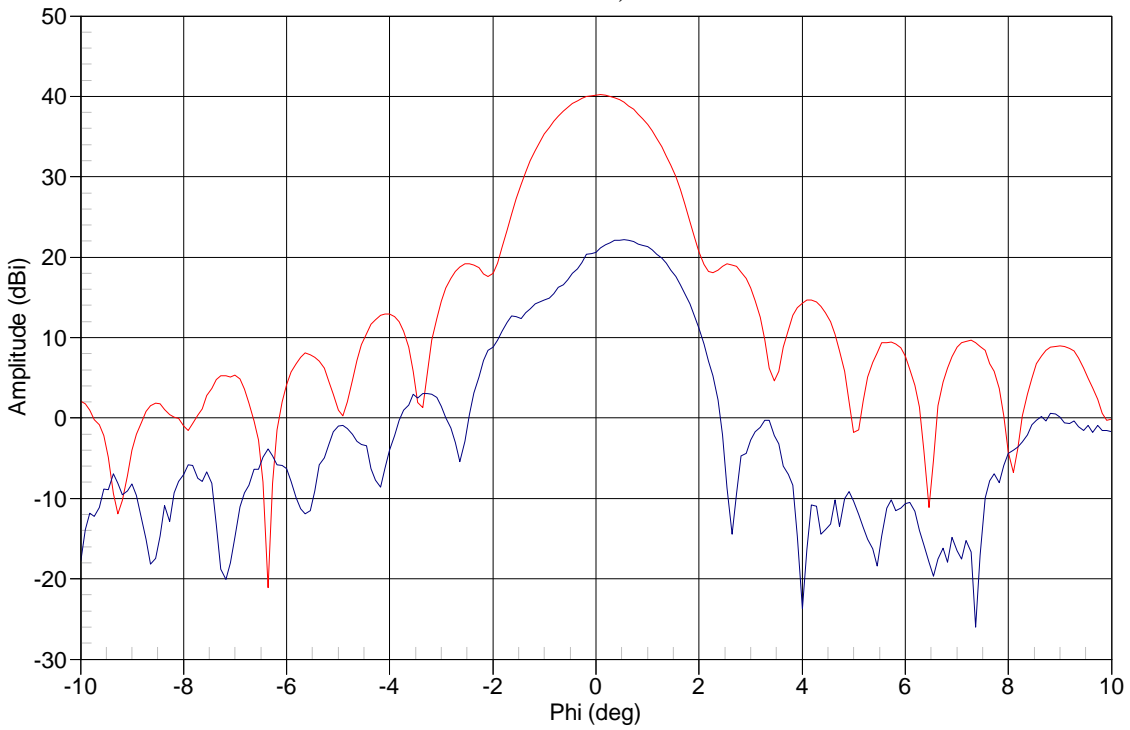


Elevation Pattern, 18.3 GHz

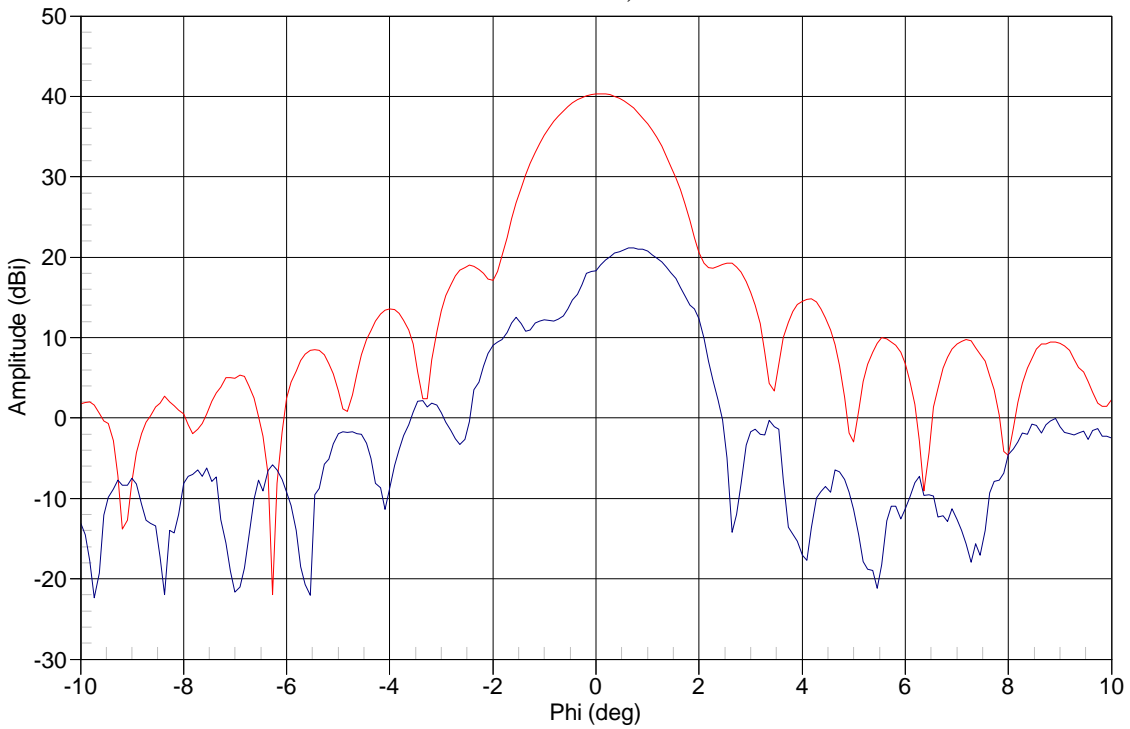


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Elevation Pattern, 18.55 GHz

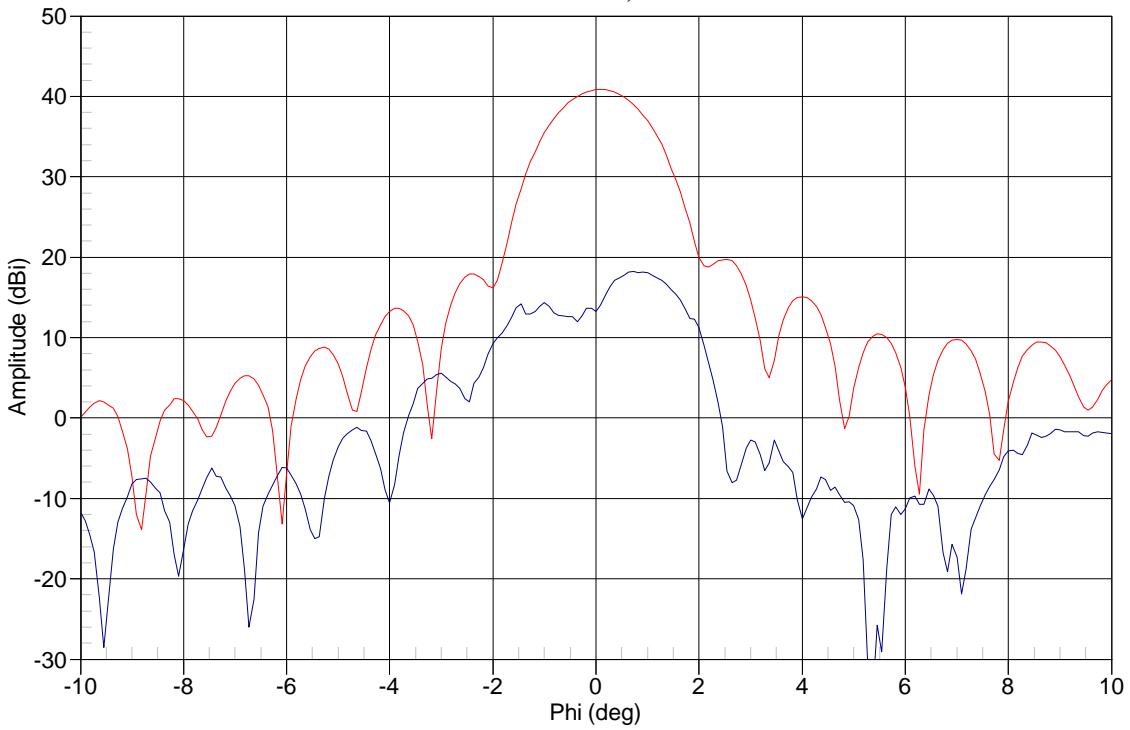


Elevation Pattern, 18.8 GHz

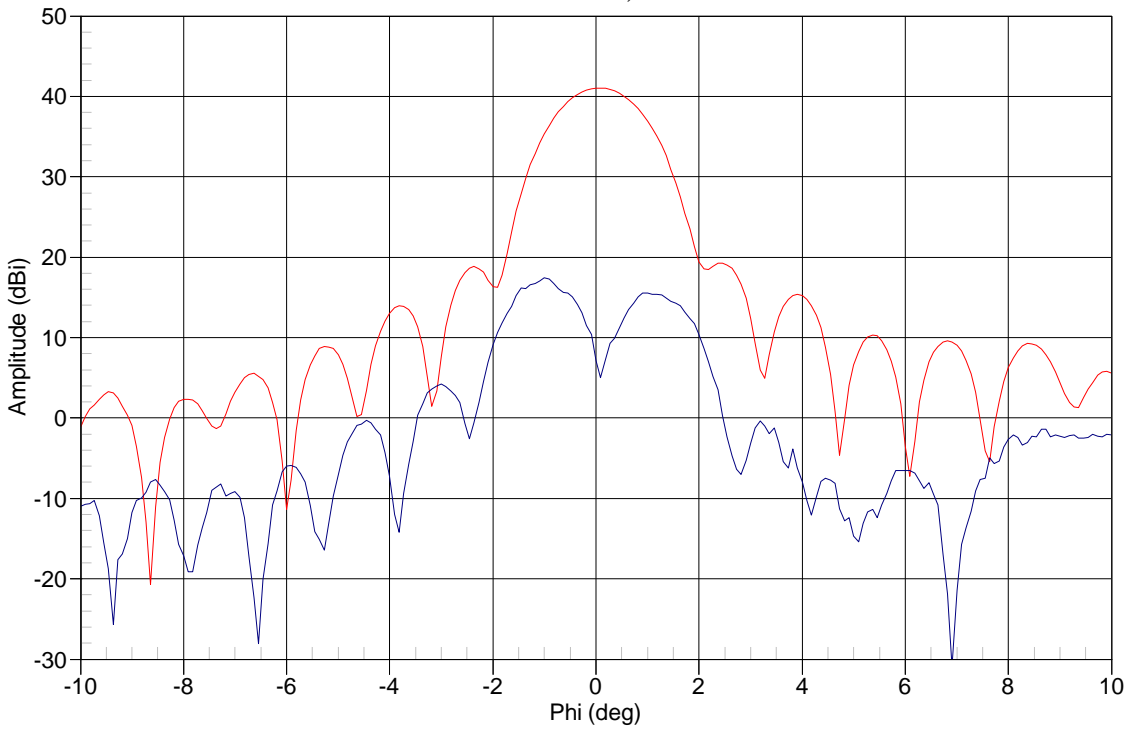


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Elevation Pattern, 19.3 GHz

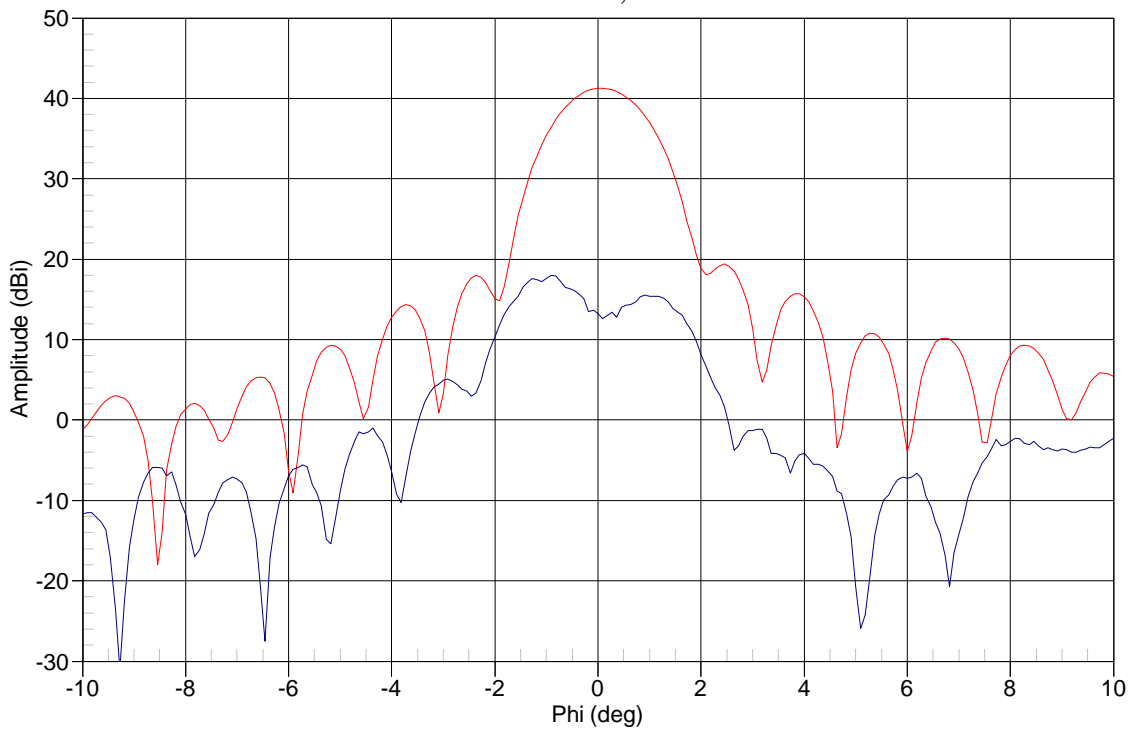


Elevation Pattern, 19.7 GHz

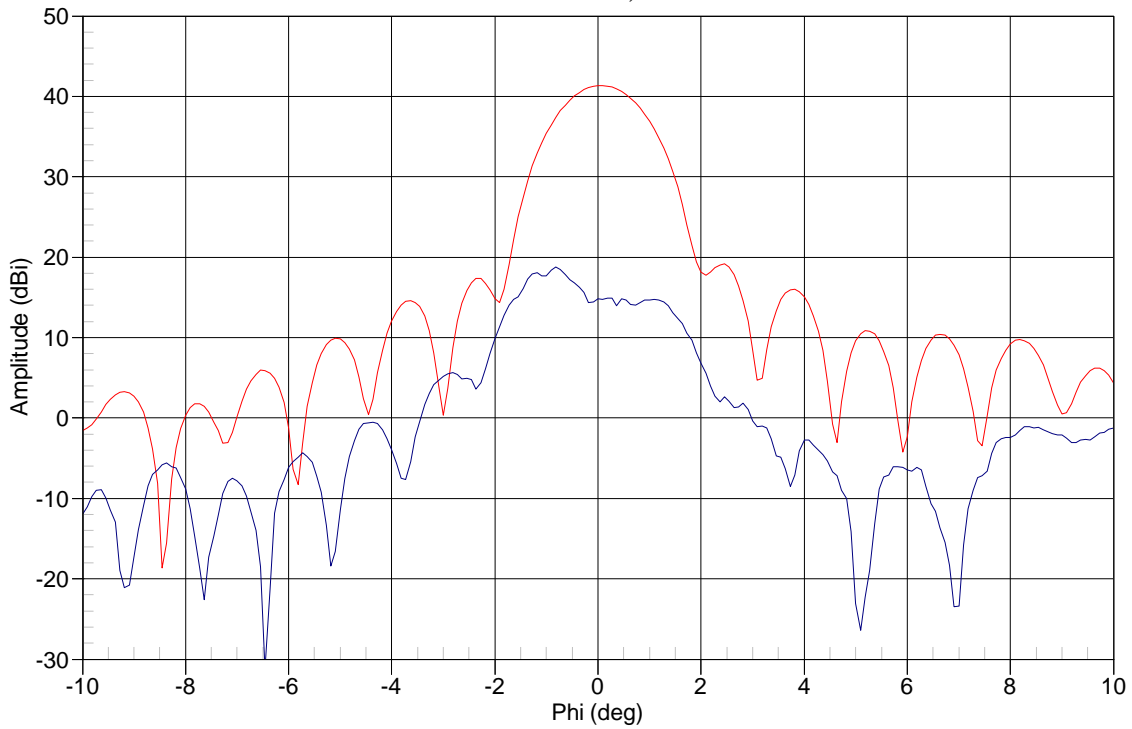


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Elevation Pattern, 19.95 GHz

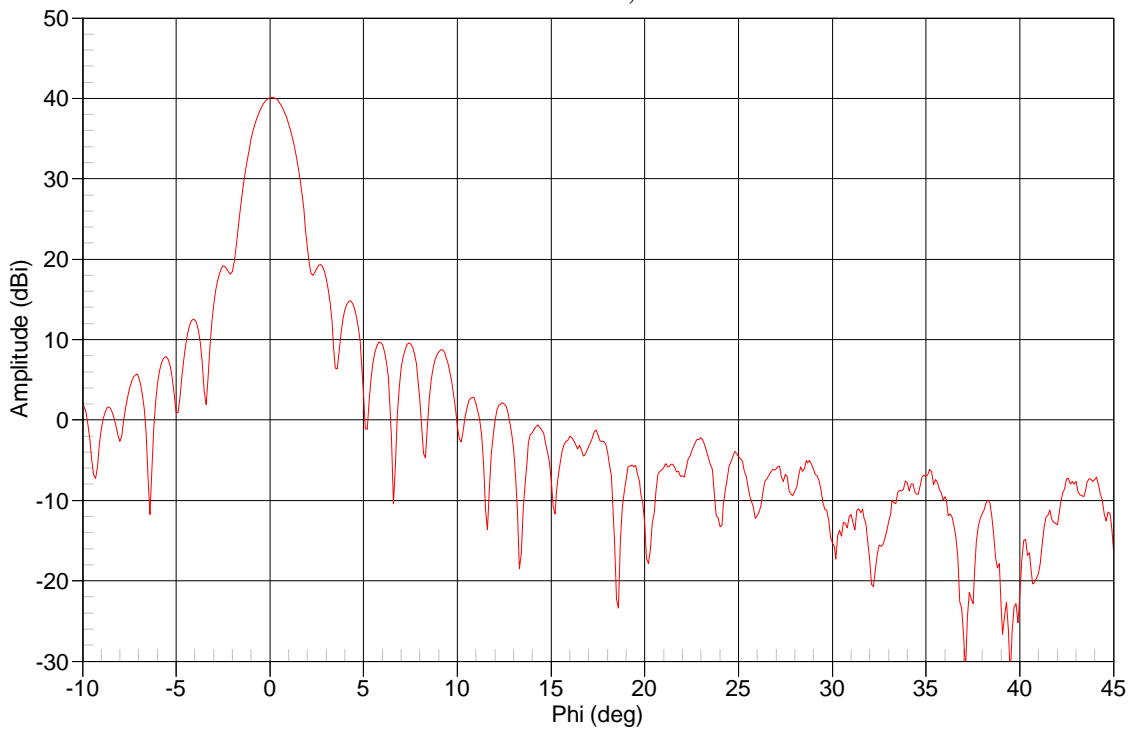


Elevation Pattern, 20.2 GHz

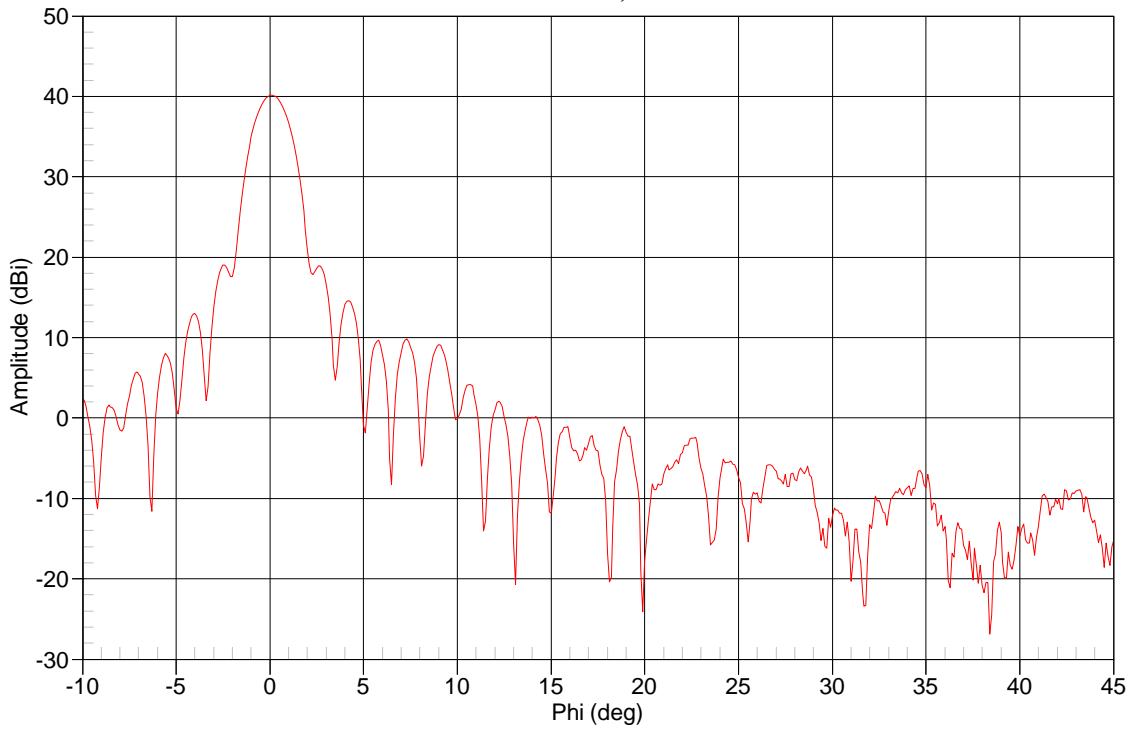


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Elevation Pattern, 18.3 GHz

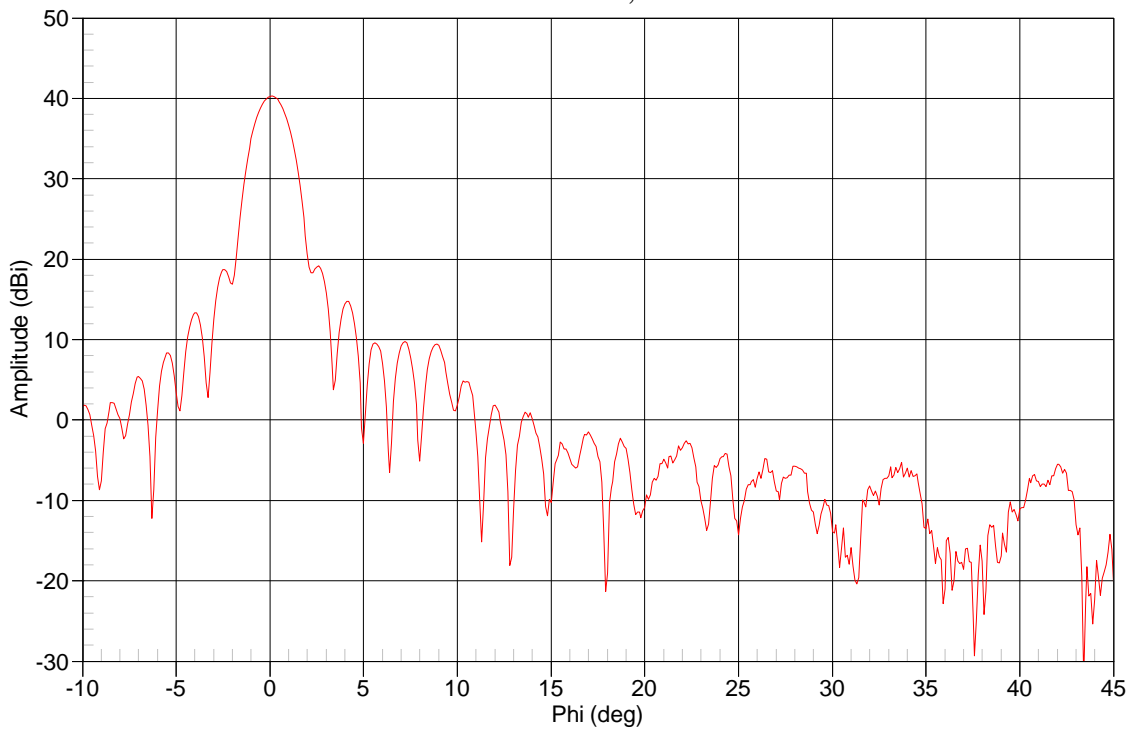


Elevation Pattern, 18.55 GHz

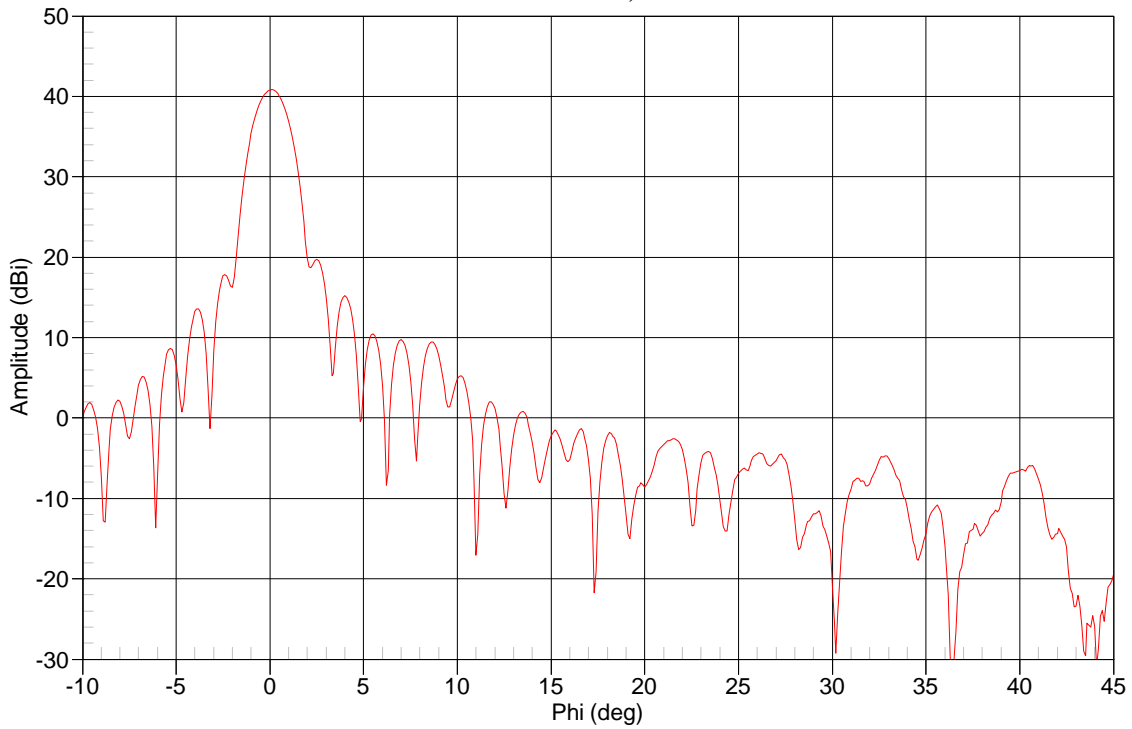


WINEGARD

Elevation Pattern, 18.8 GHz

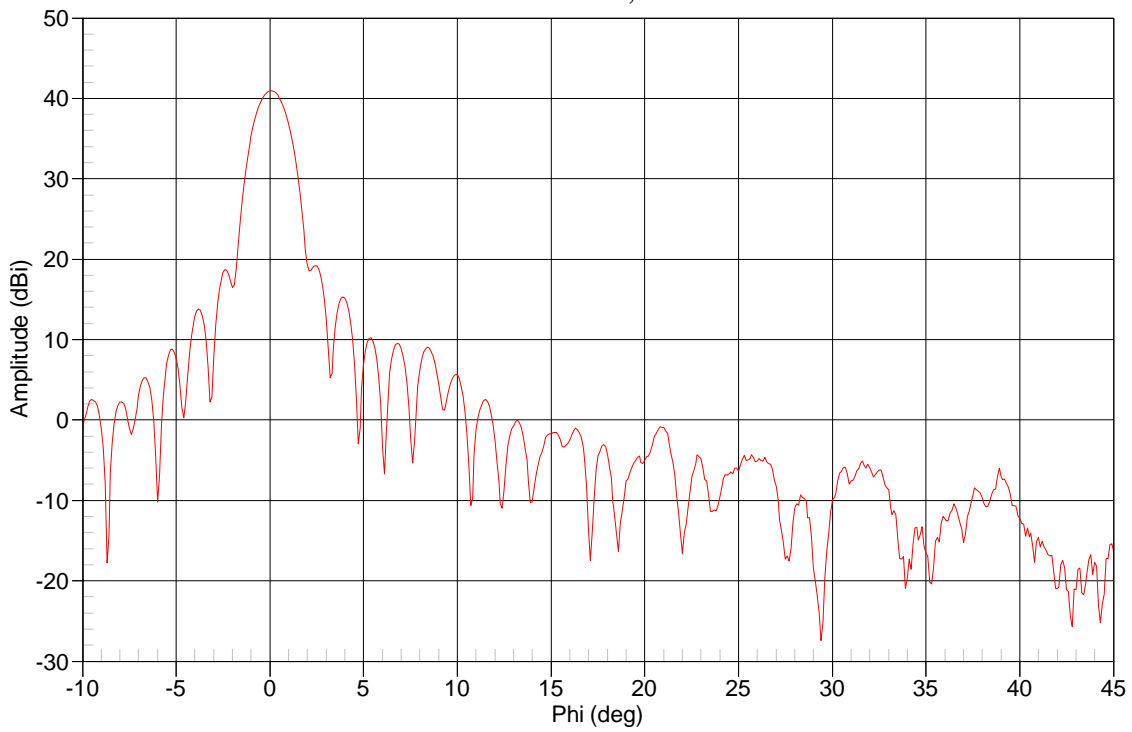


Elevation Pattern, 19.3 GHz

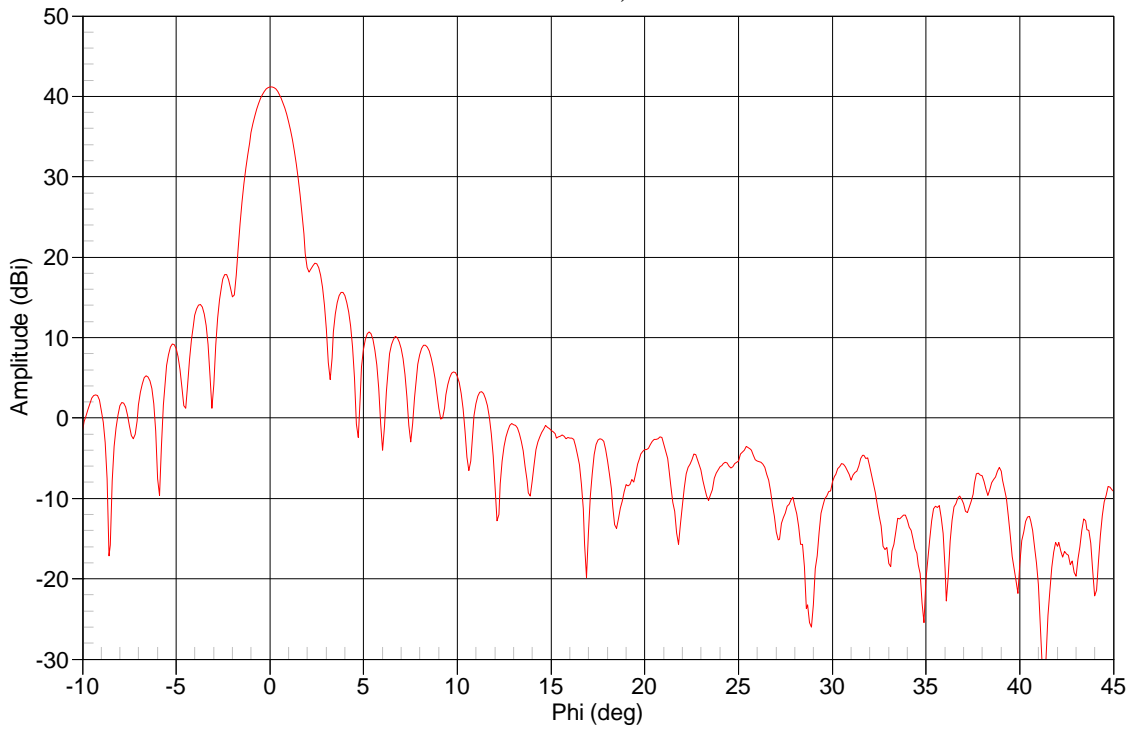


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Elevation Pattern, 19.7 GHz

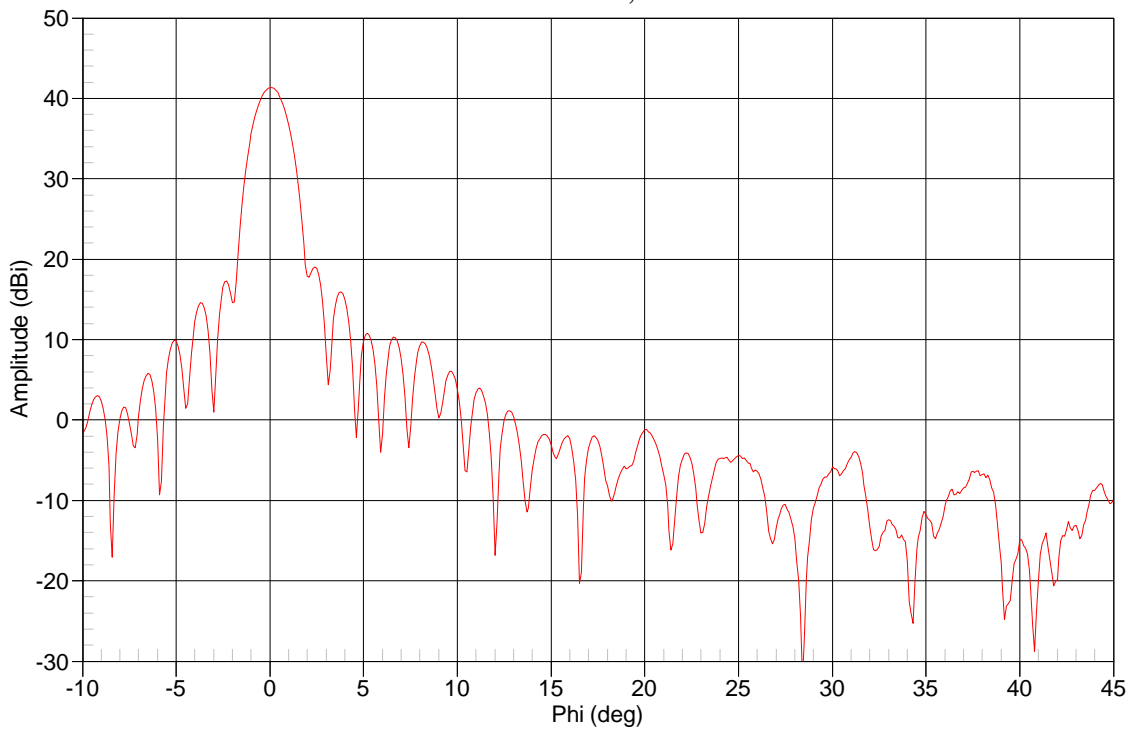


Elevation Pattern, 19.95 GHz

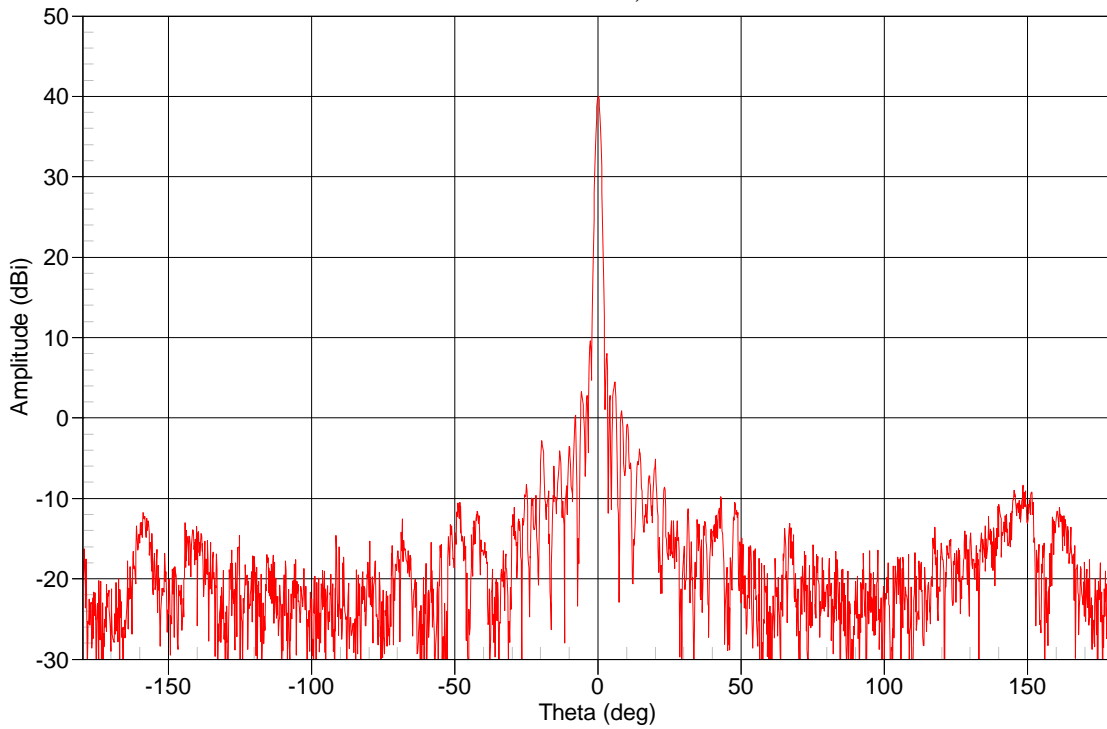


WINEGARD

Elevation Pattern, 20.2 GHz

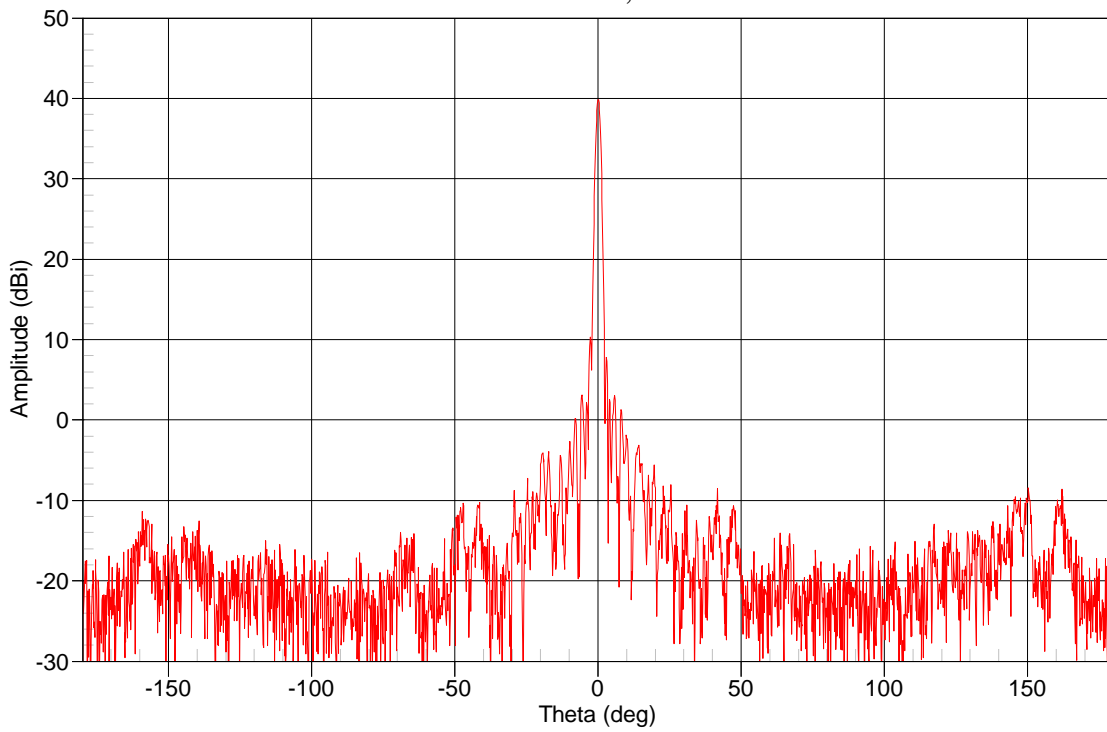


Azimuthal Pattern, 18.3 GHz

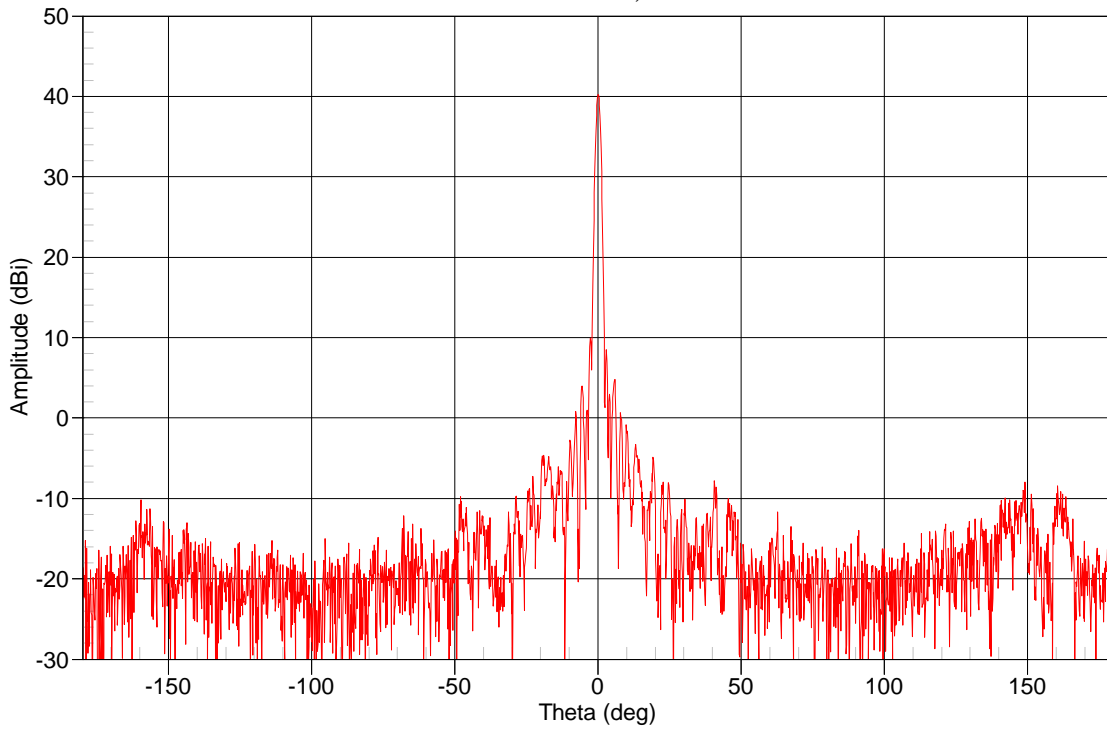


WINEGARD

Azimuthal Pattern, 18.55 GHz

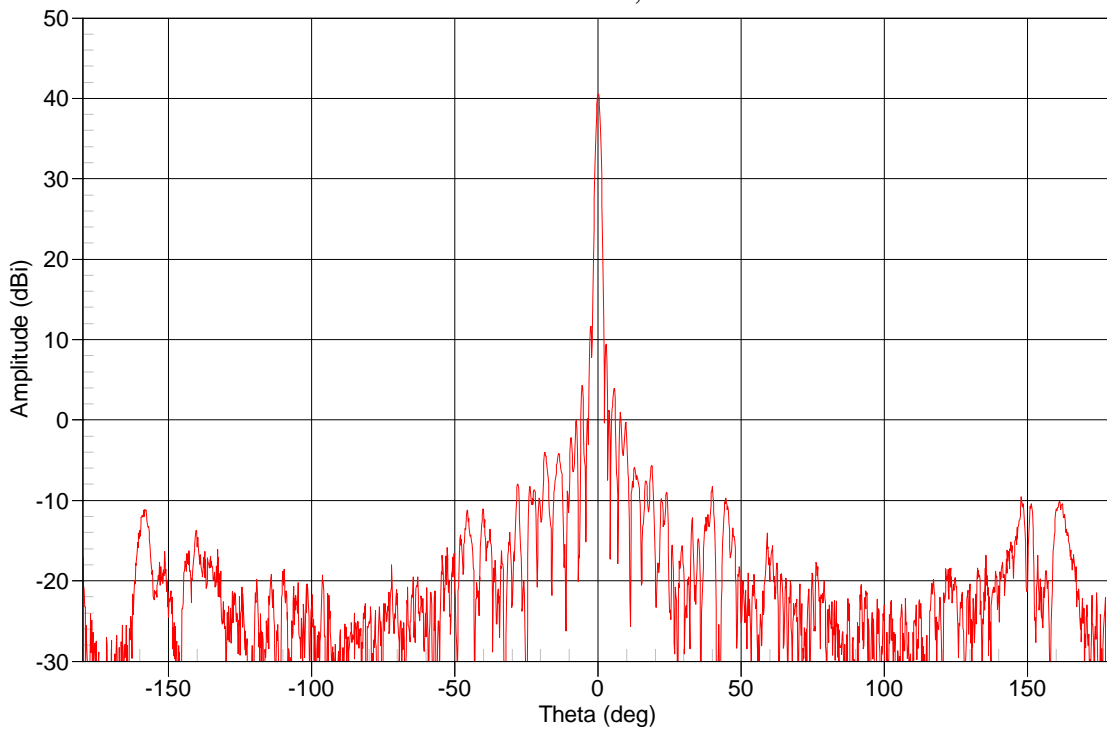


Azimuthal Pattern, 18.8 GHz

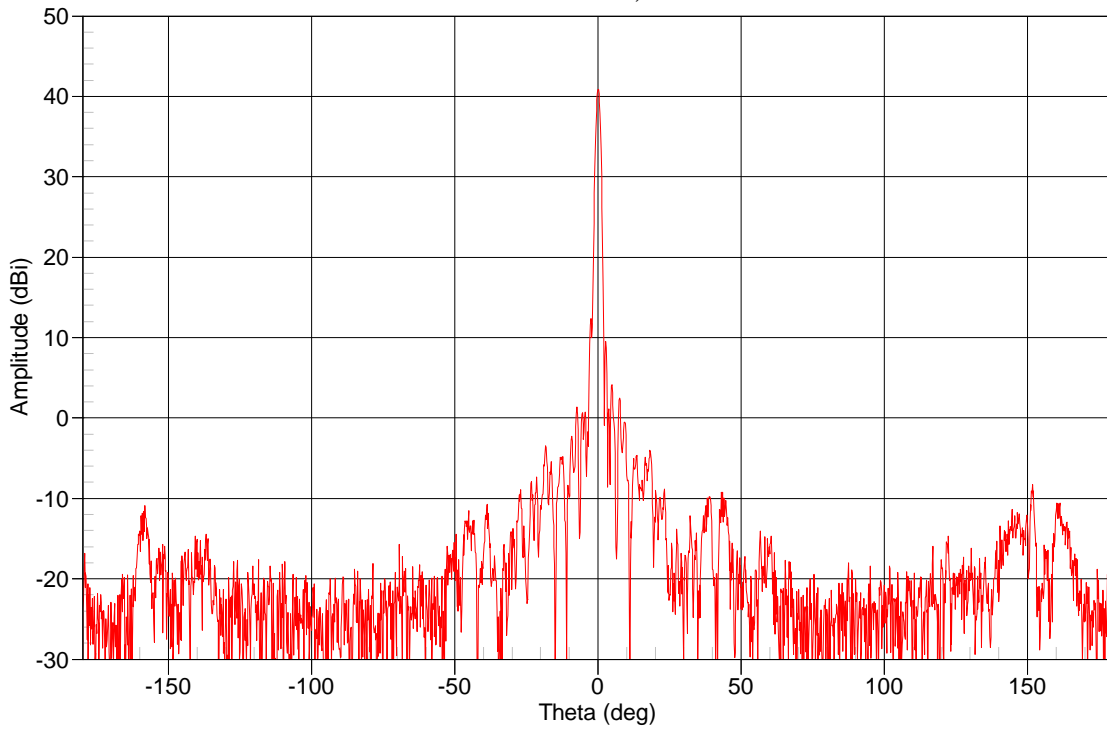


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Azimuthal Pattern, 19.3 GHz

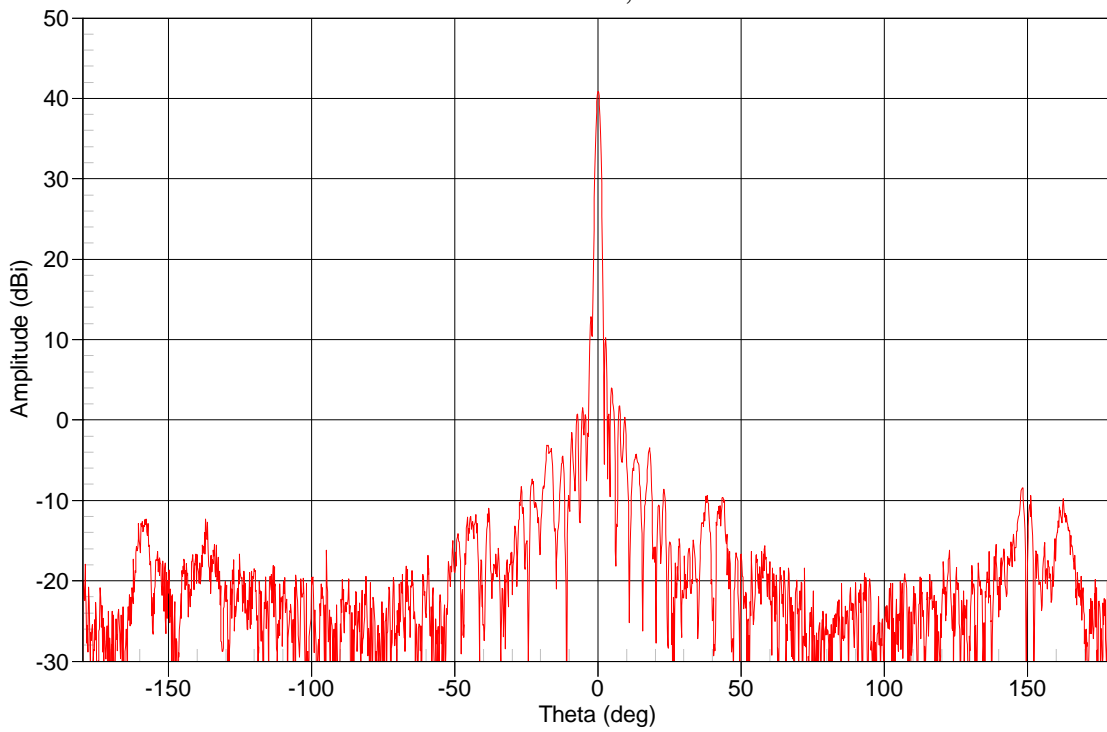


Azimuthal Pattern, 19.7 GHz

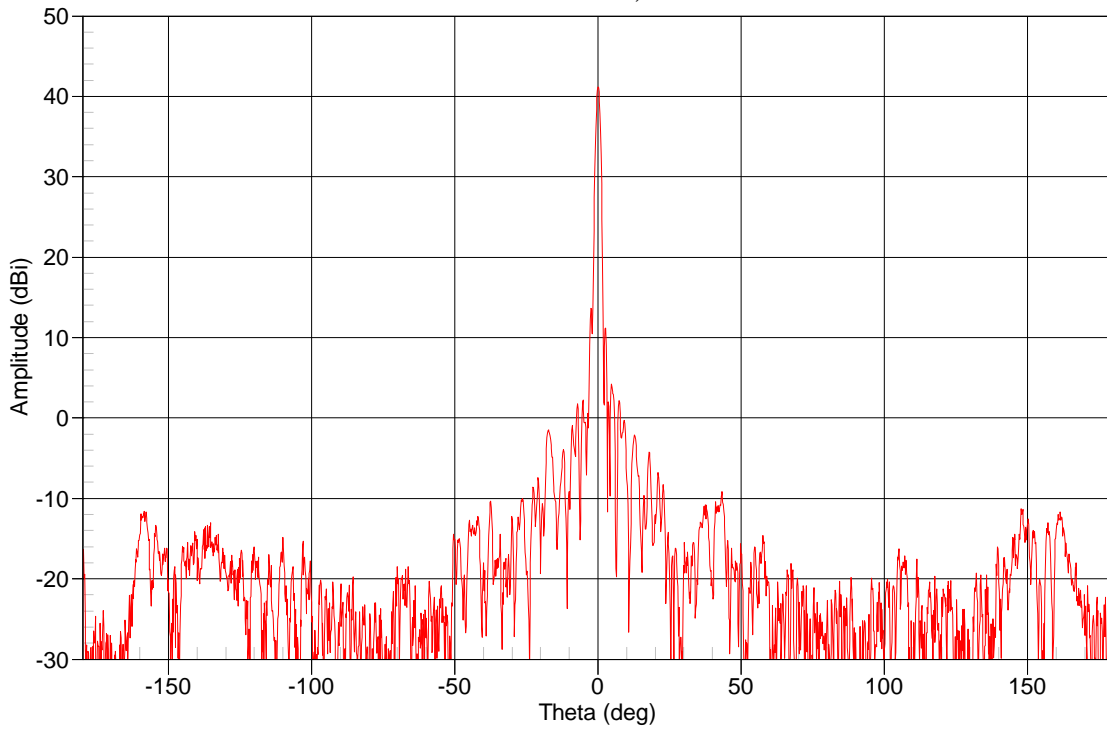


WINEGARD

Azimuthal Pattern, 19.95 GHz



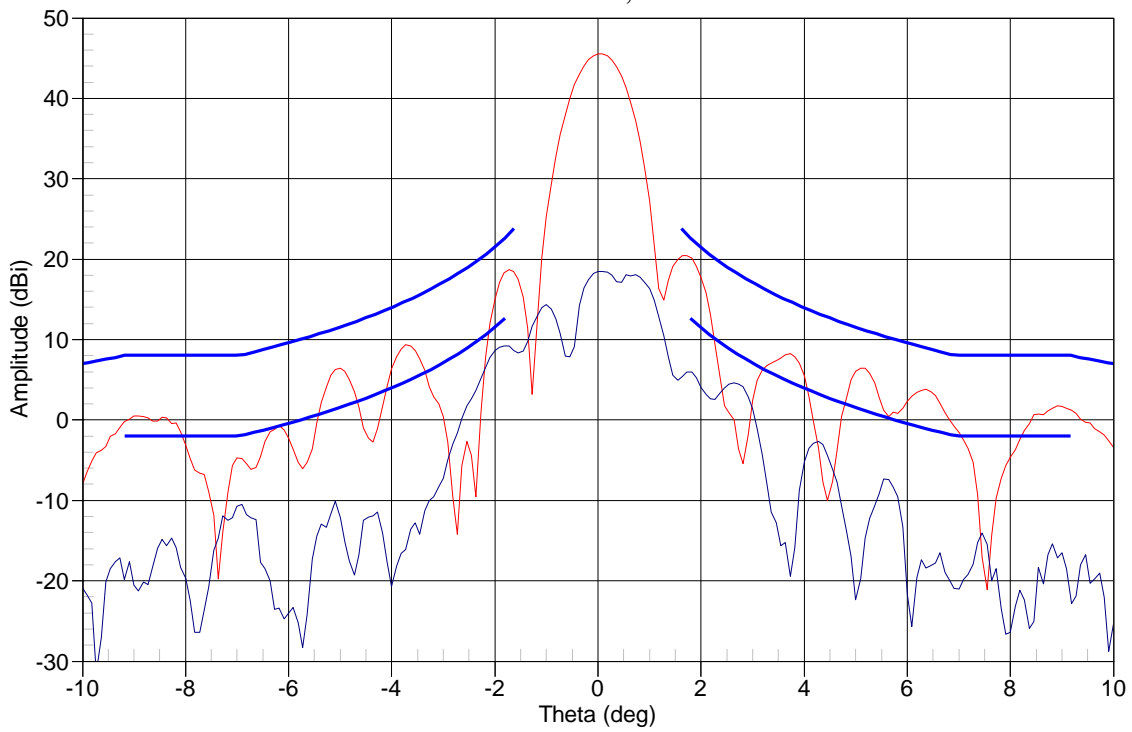
Azimuthal Pattern, 20.2 GHz



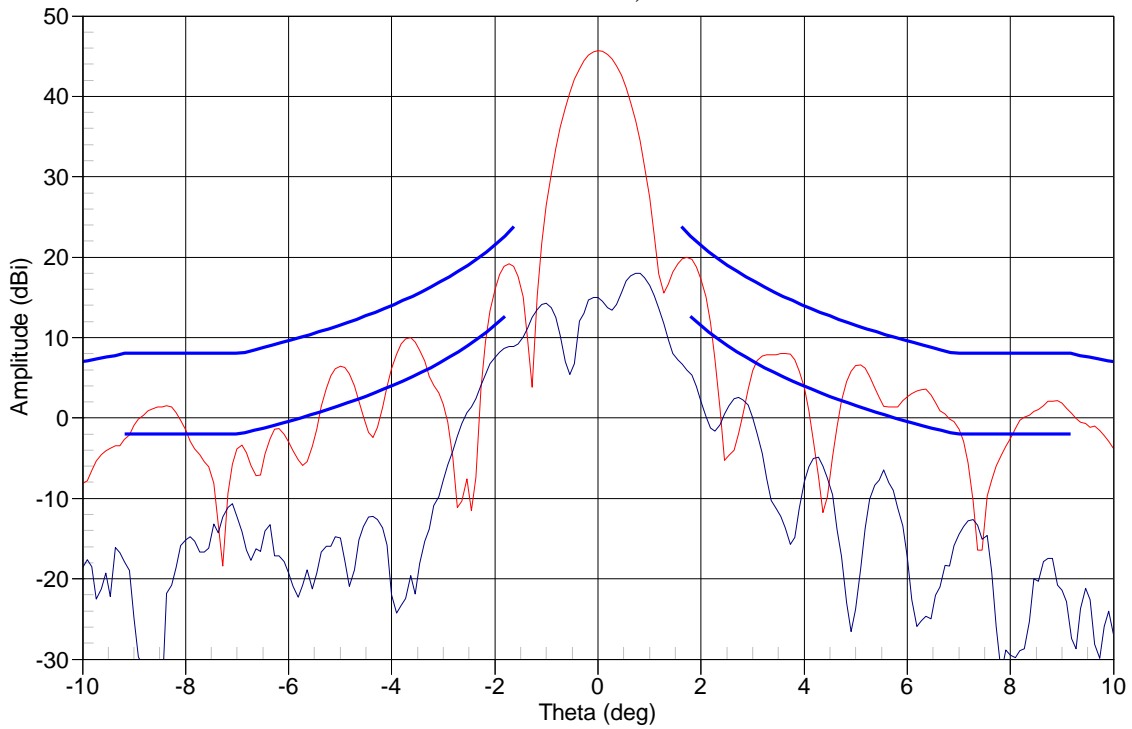
RHCP Polarization Radiation Patterns (Transmit Frequencies):

WINEGARD

Azimuthal Pattern, 29.25 GHz

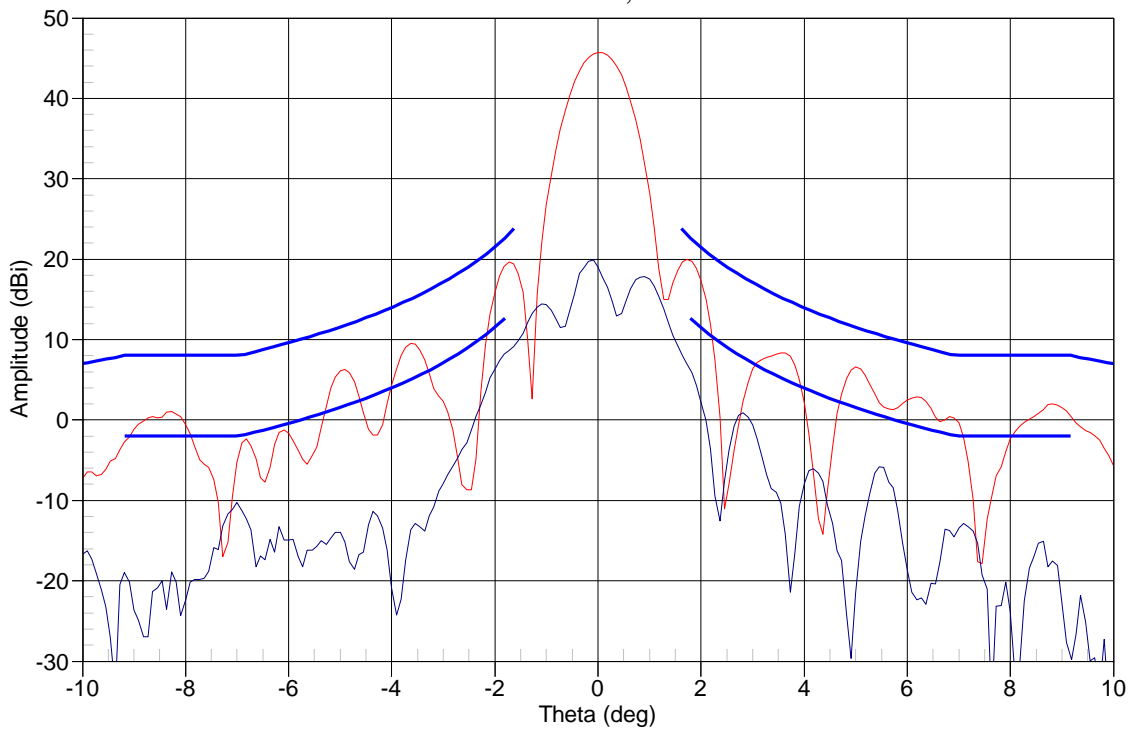


Azimuthal Pattern, 29.5 GHz

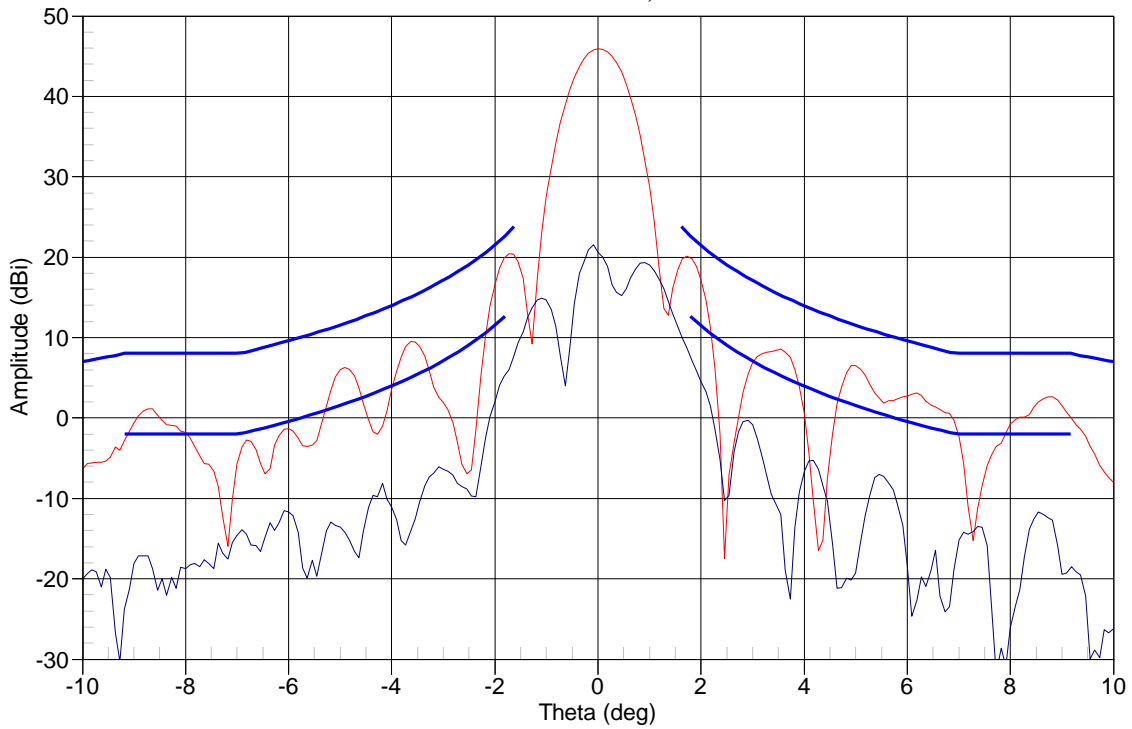


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Azimuthal Pattern, 29.75 GHz

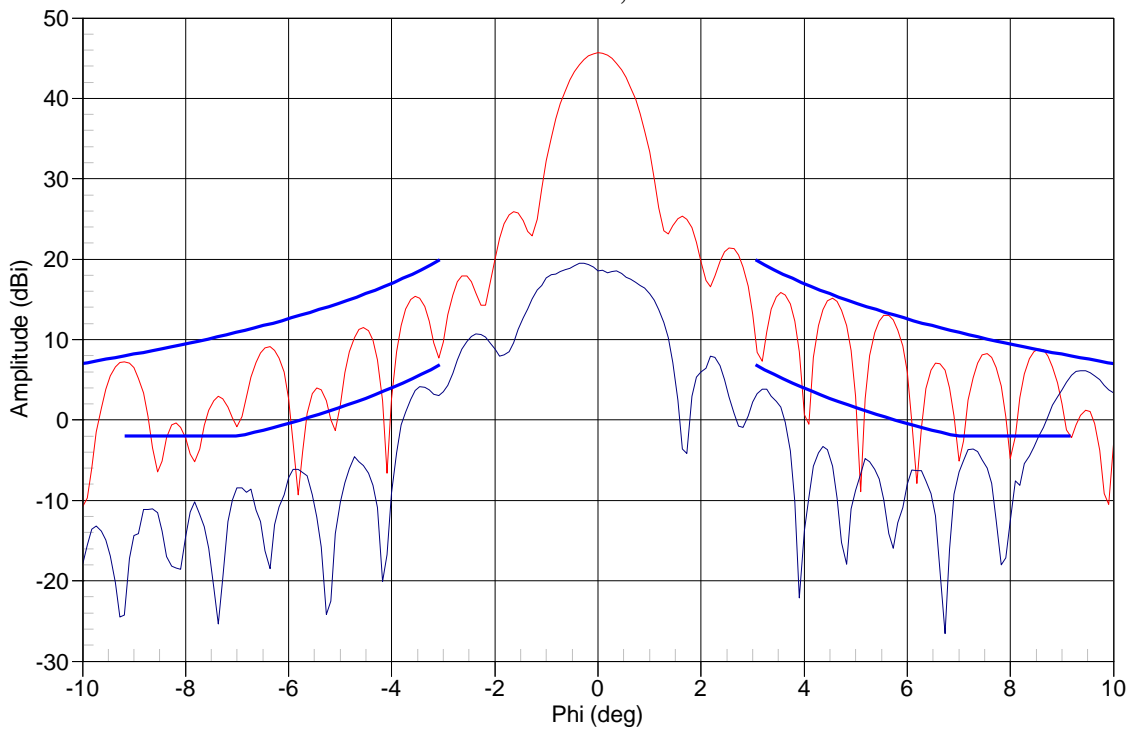


Azimuthal Pattern, 30 GHz

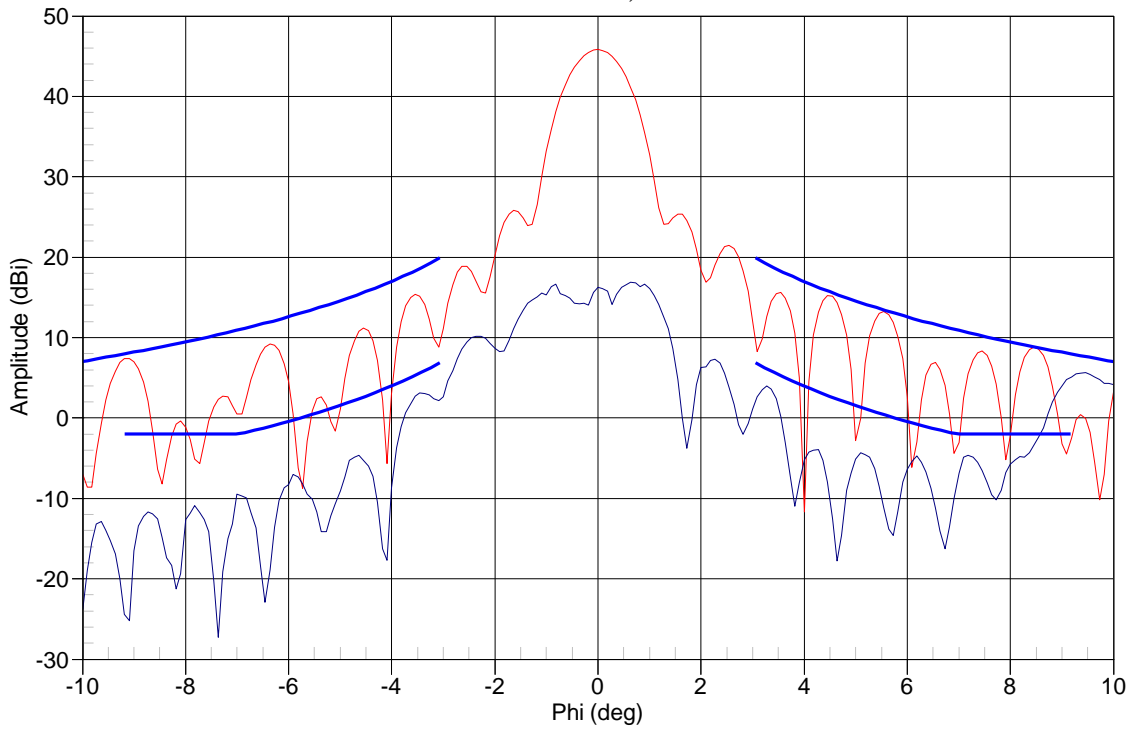


WINEGARD

Elevation Pattern, 29.25 GHz

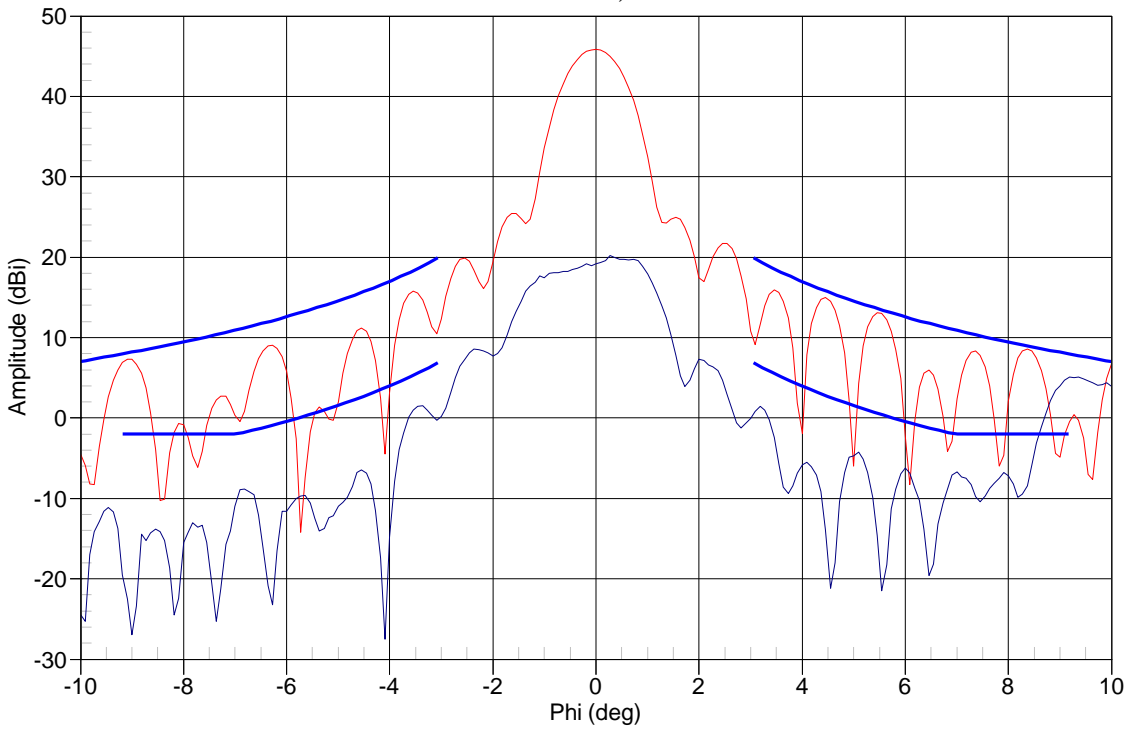


Elevation Pattern, 29.5 GHz

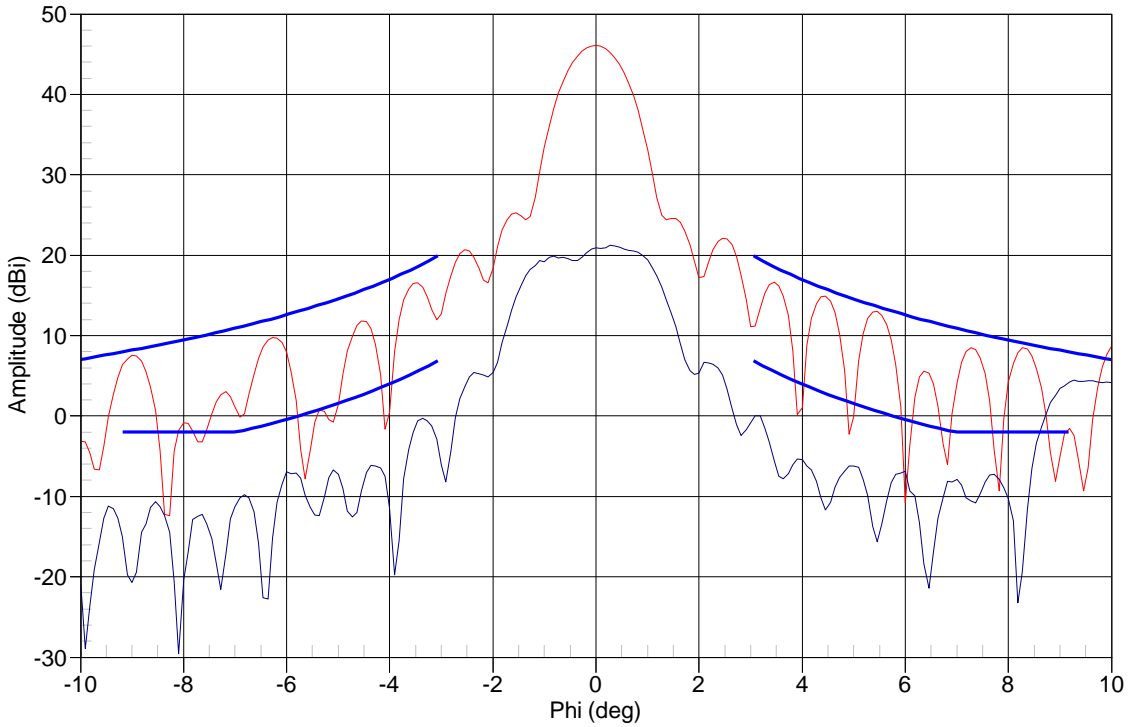


WINEGARD

Elevation Pattern, 29.75 GHz

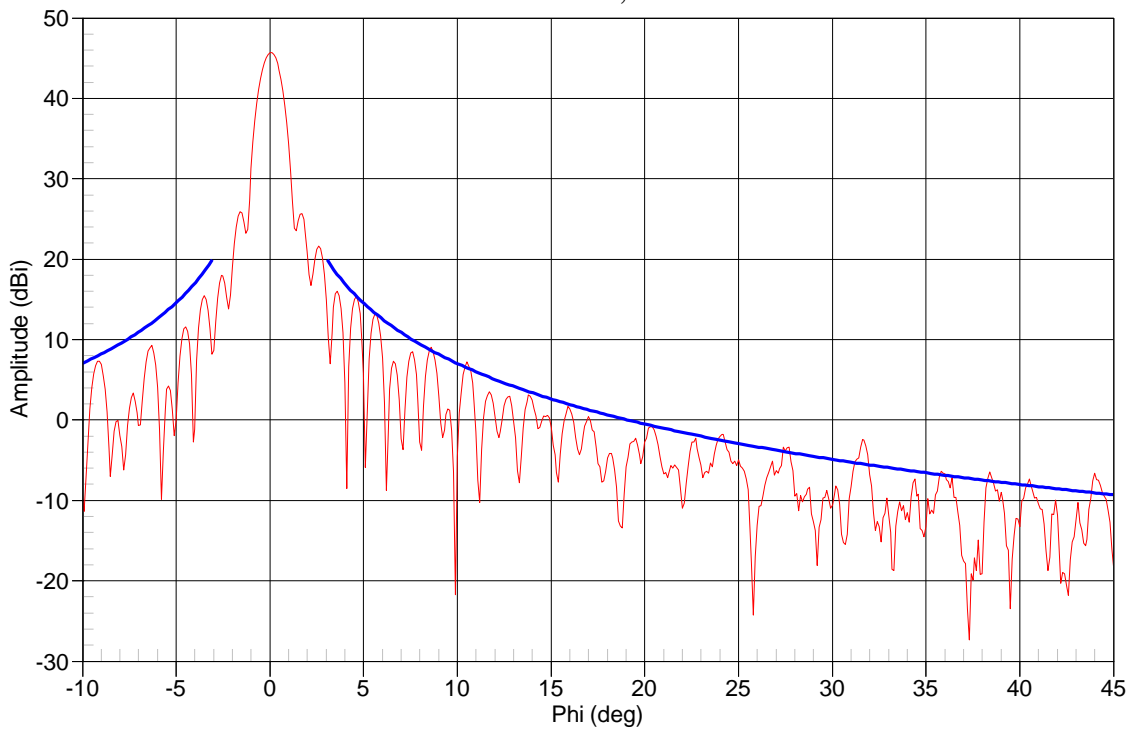


Elevation Pattern, 30 GHz

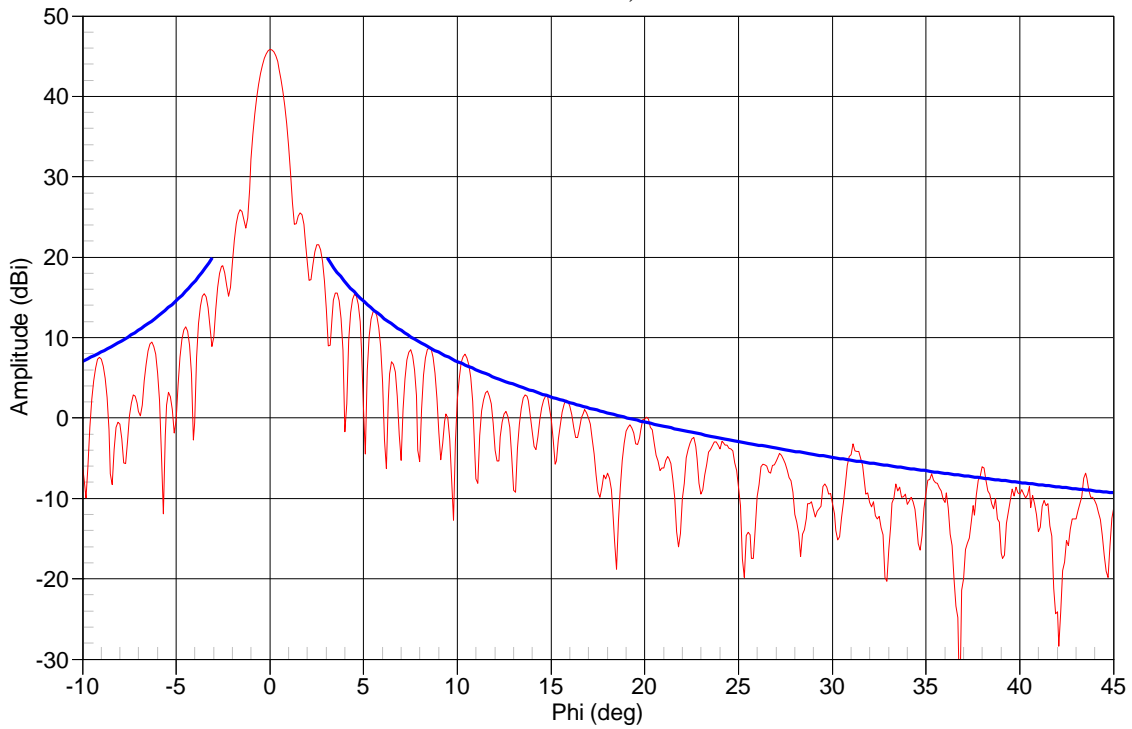


WINEGARD

Elevation Pattern, 29.25 GHz

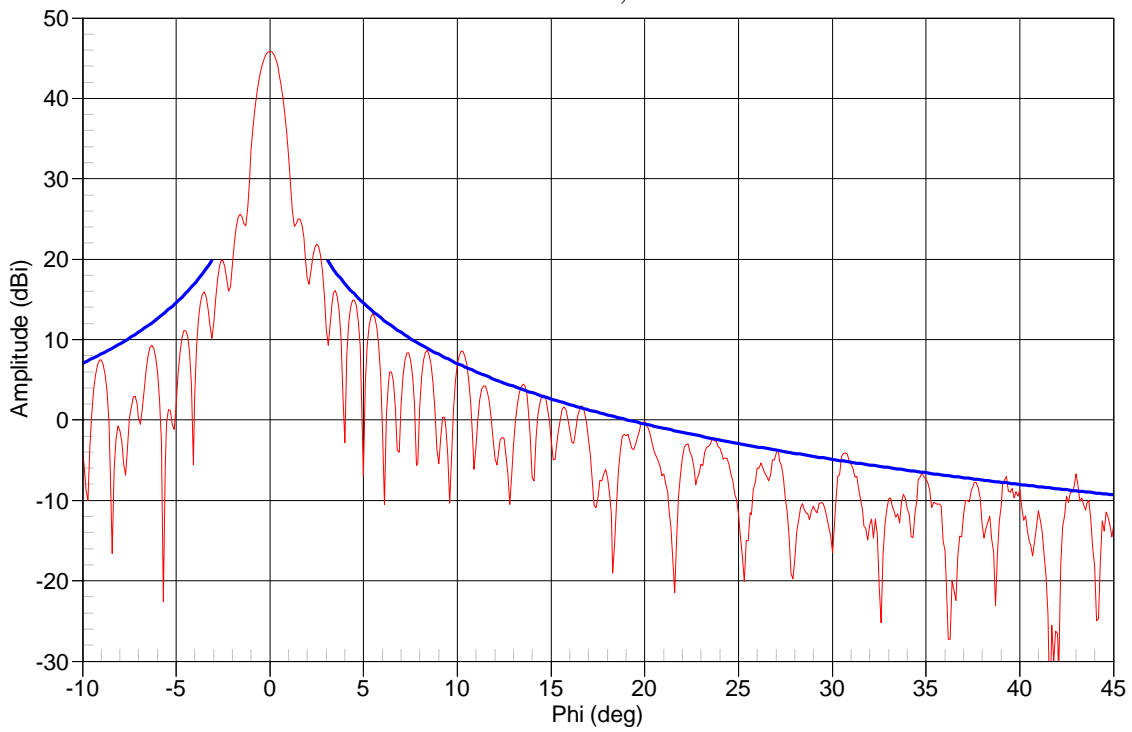


Elevation Pattern, 29.5 GHz

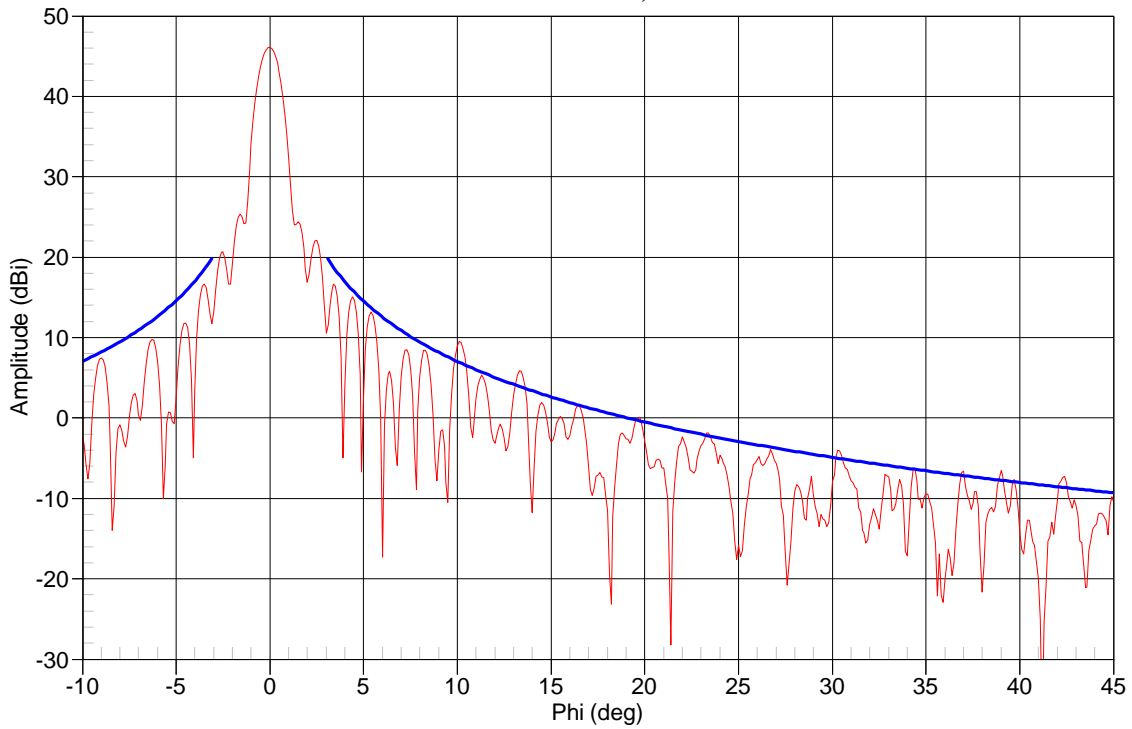


WINEGARD

Elevation Pattern, 29.75 GHz

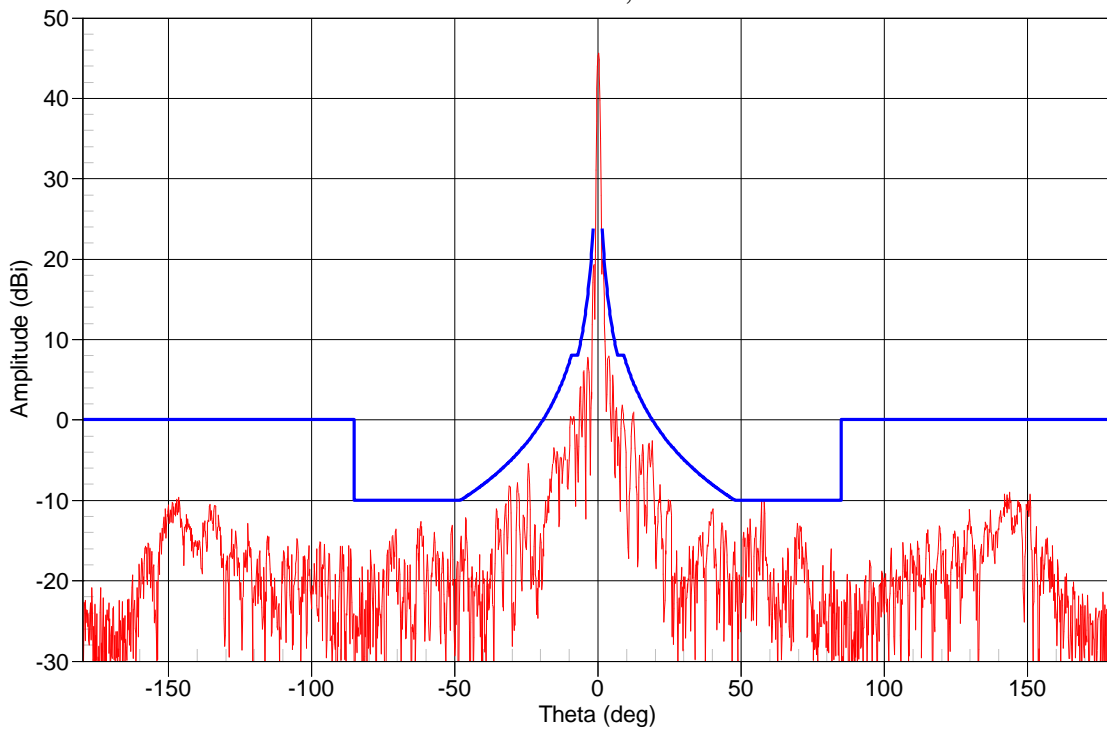


Elevation Pattern, 30 GHz

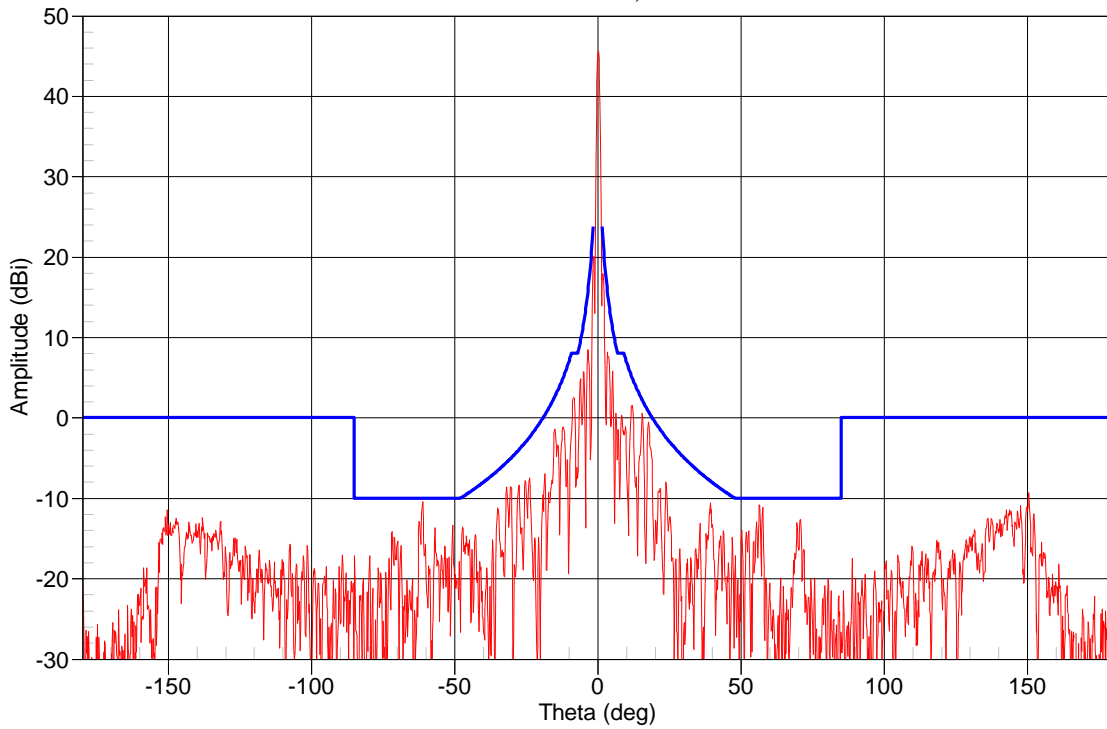


WINEGARD

Azimuthal Pattern, 29.25 GHz

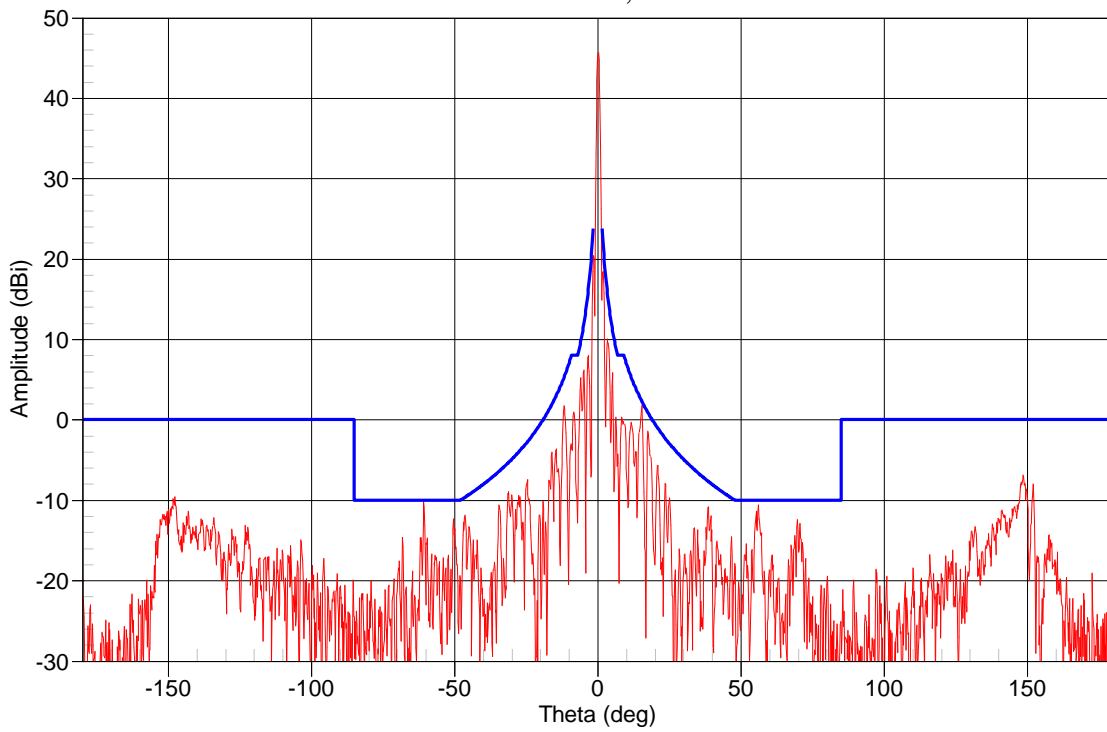


Azimuthal Pattern, 29.5 GHz

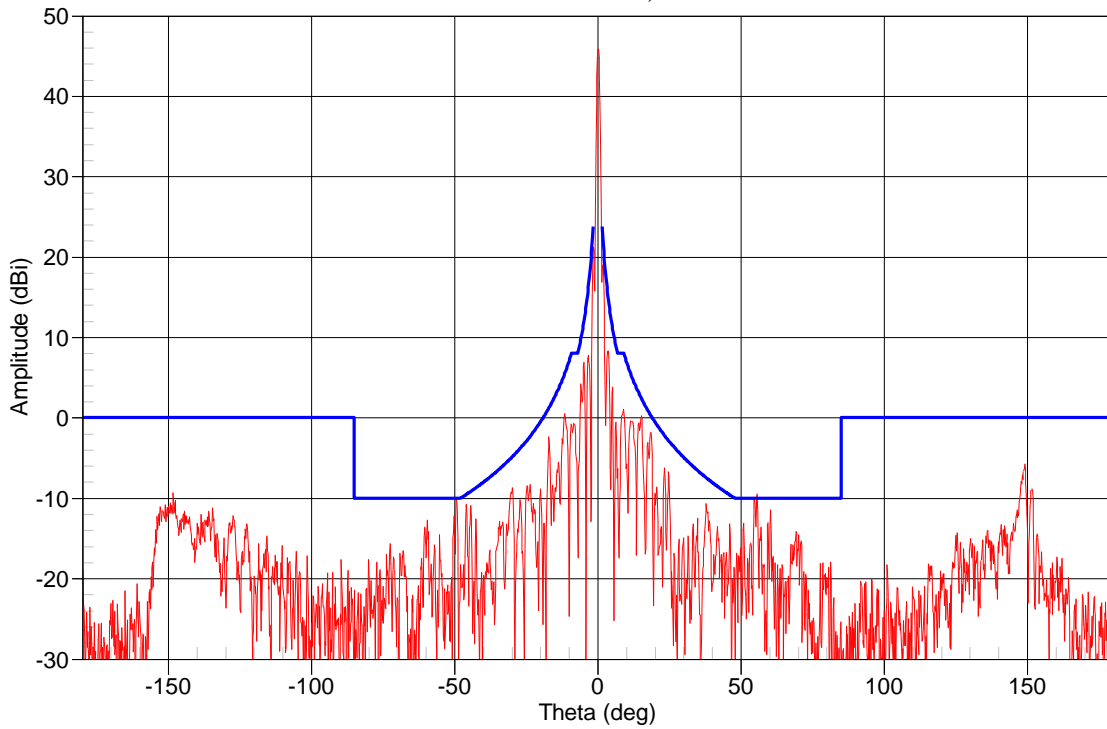


WINEGARD

Azimuthal Pattern, 29.75 GHz



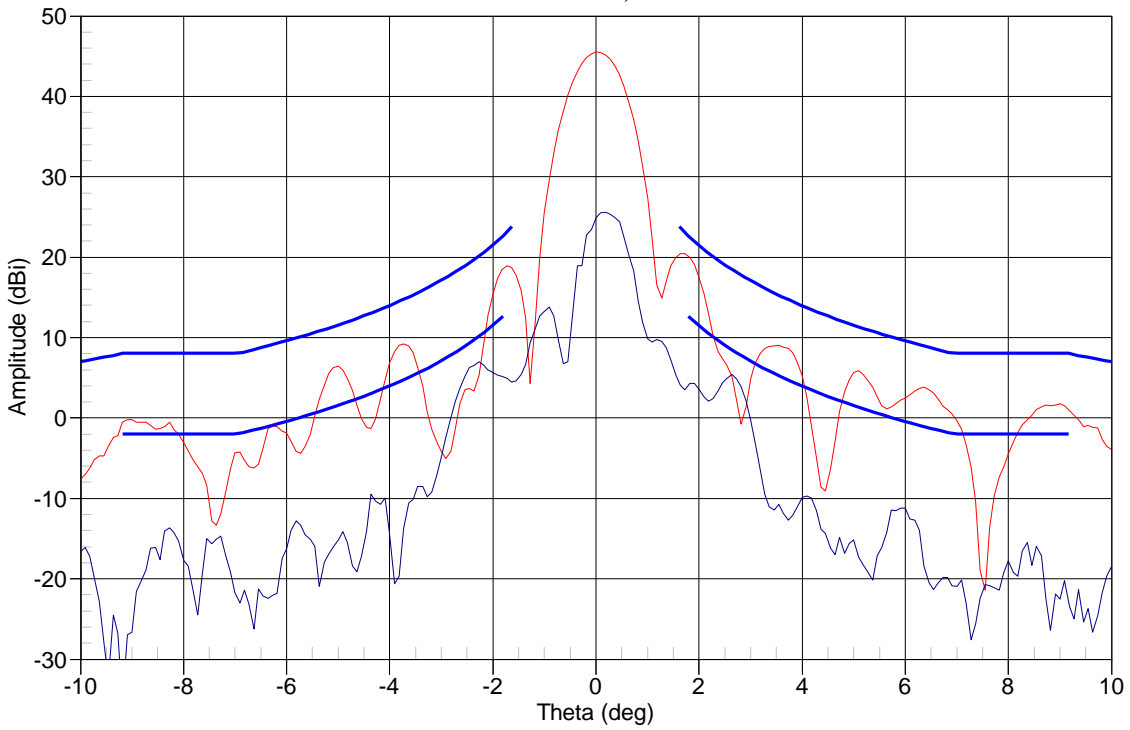
Azimuthal Pattern, 30 GHz



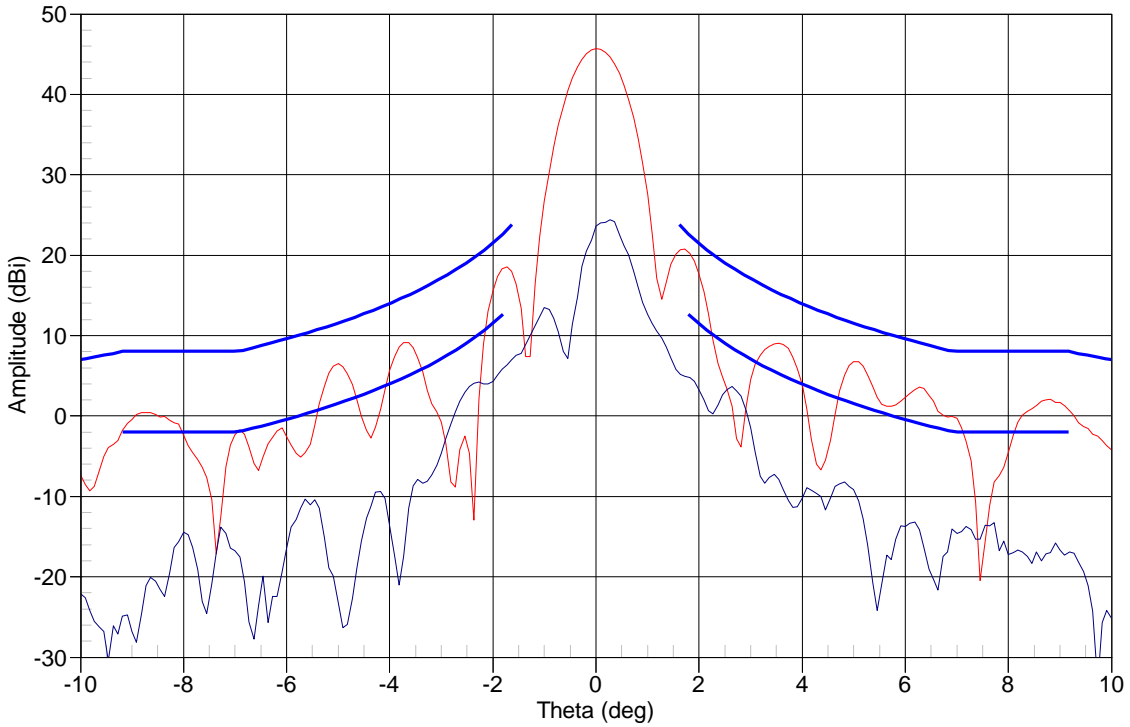
LHCP Polarization Radiation Patterns (Transmit Frequencies):

WINEGARD

Azimuthal Pattern, 29.25 GHz

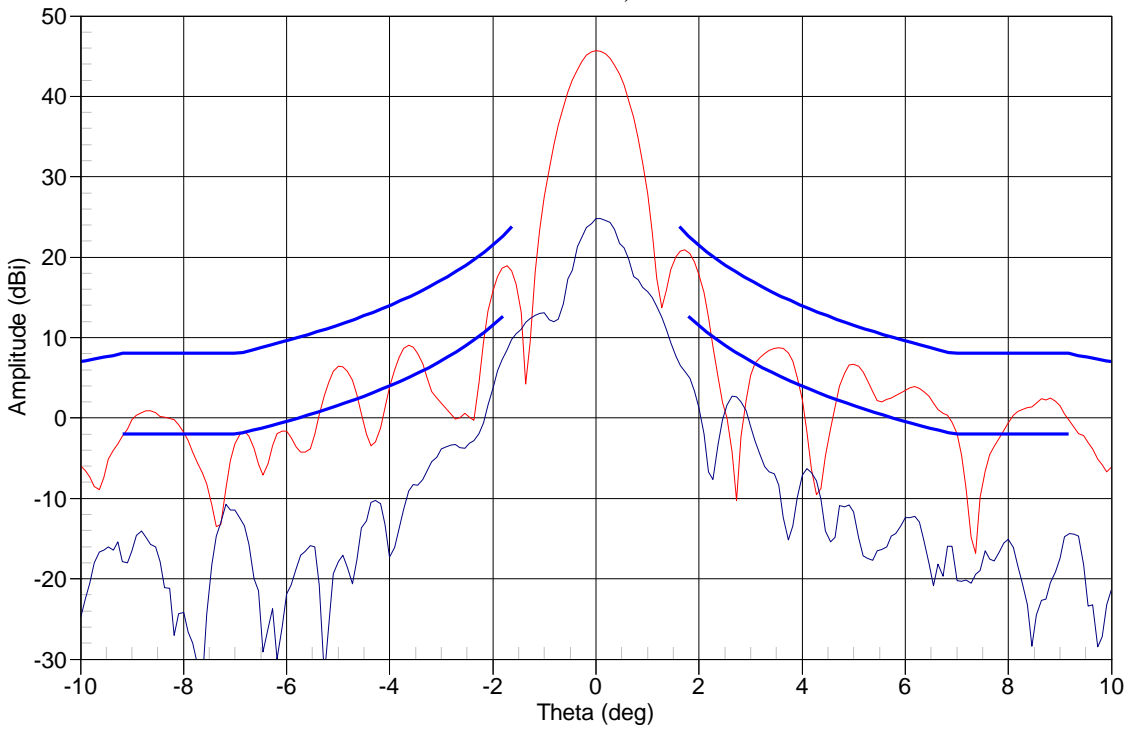


Azimuthal Pattern, 29.5 GHz

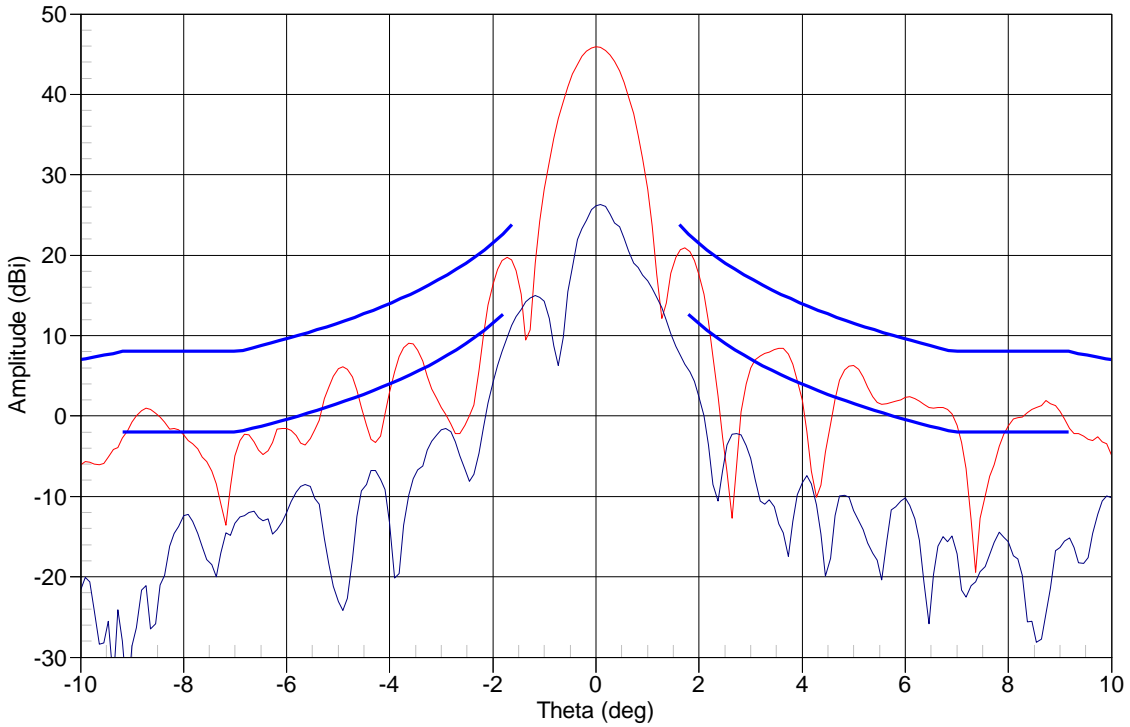


WINEGARD

Azimuthal Pattern, 29.75 GHz

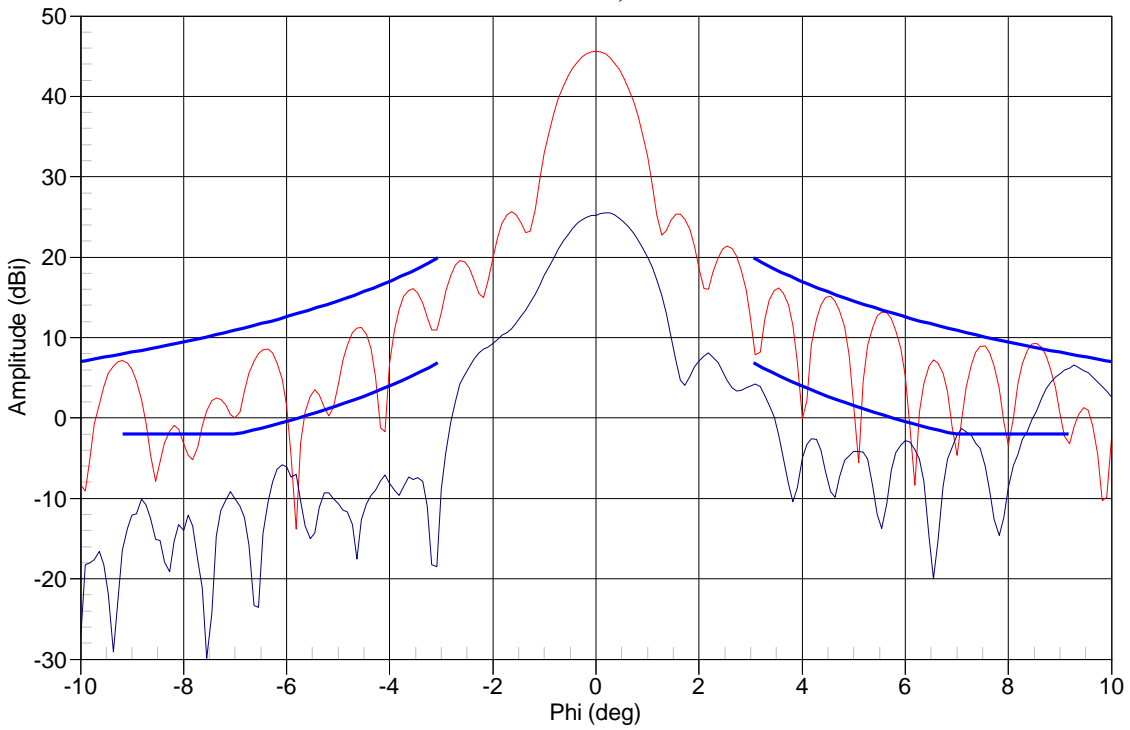


Azimuthal Pattern, 30 GHz

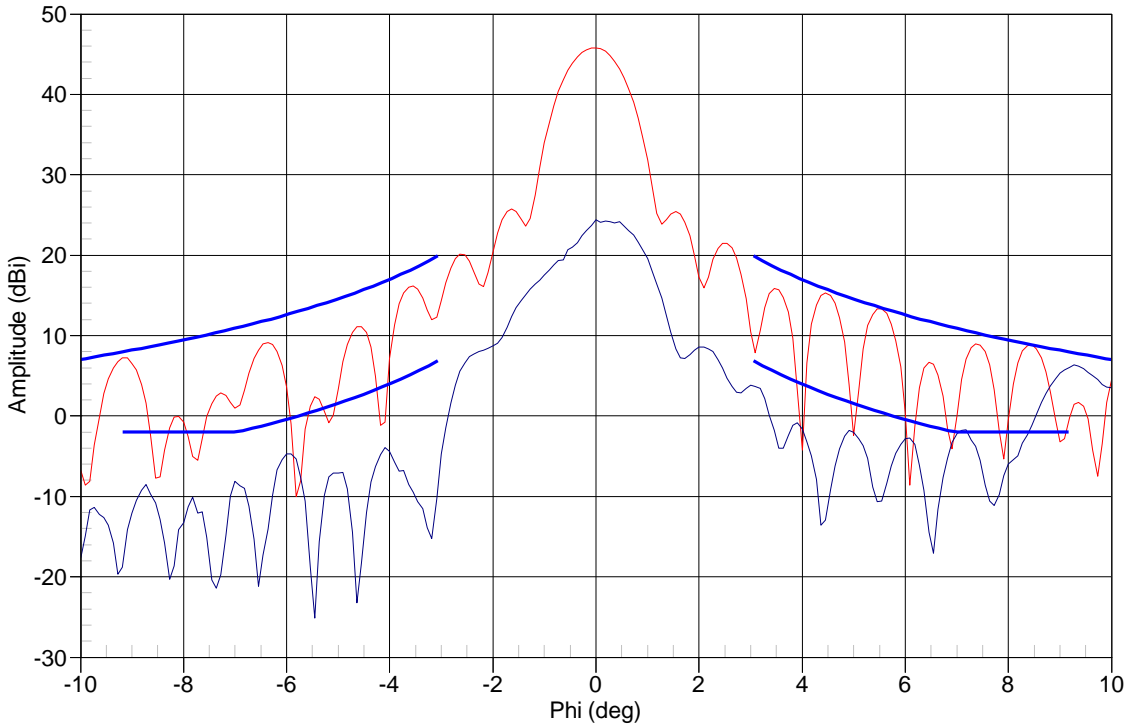


WINEGARD

Elevation Pattern, 29.25 GHz

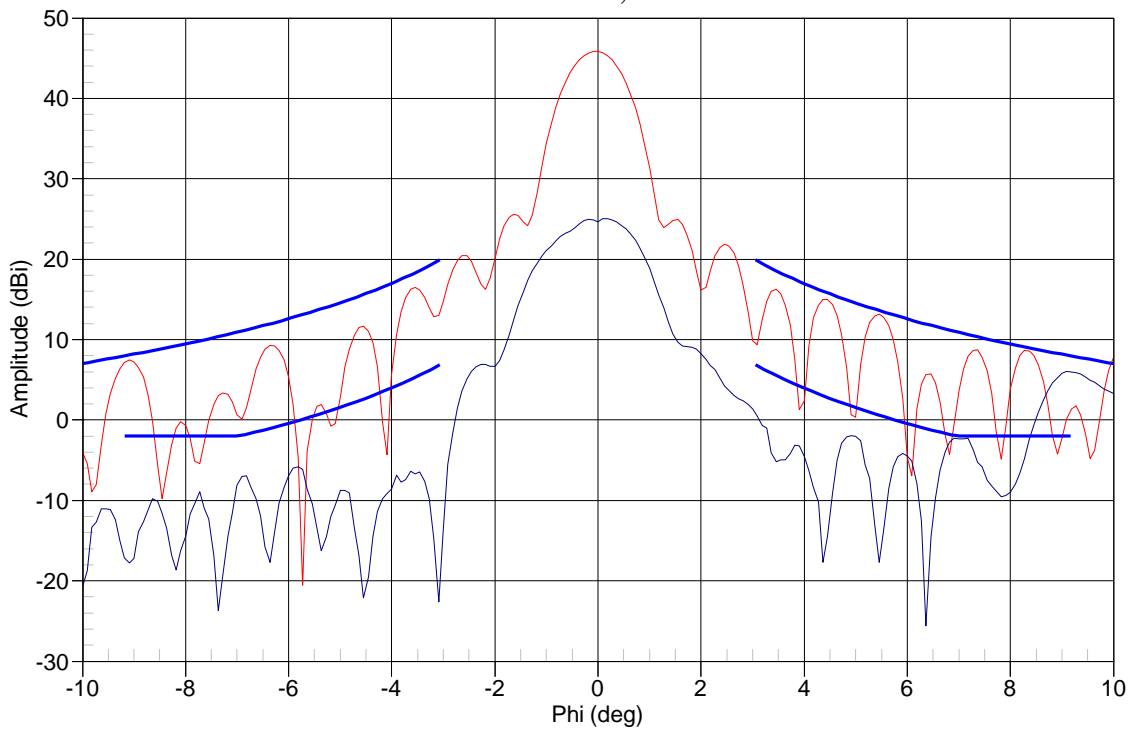


Elevation Pattern, 29.5 GHz

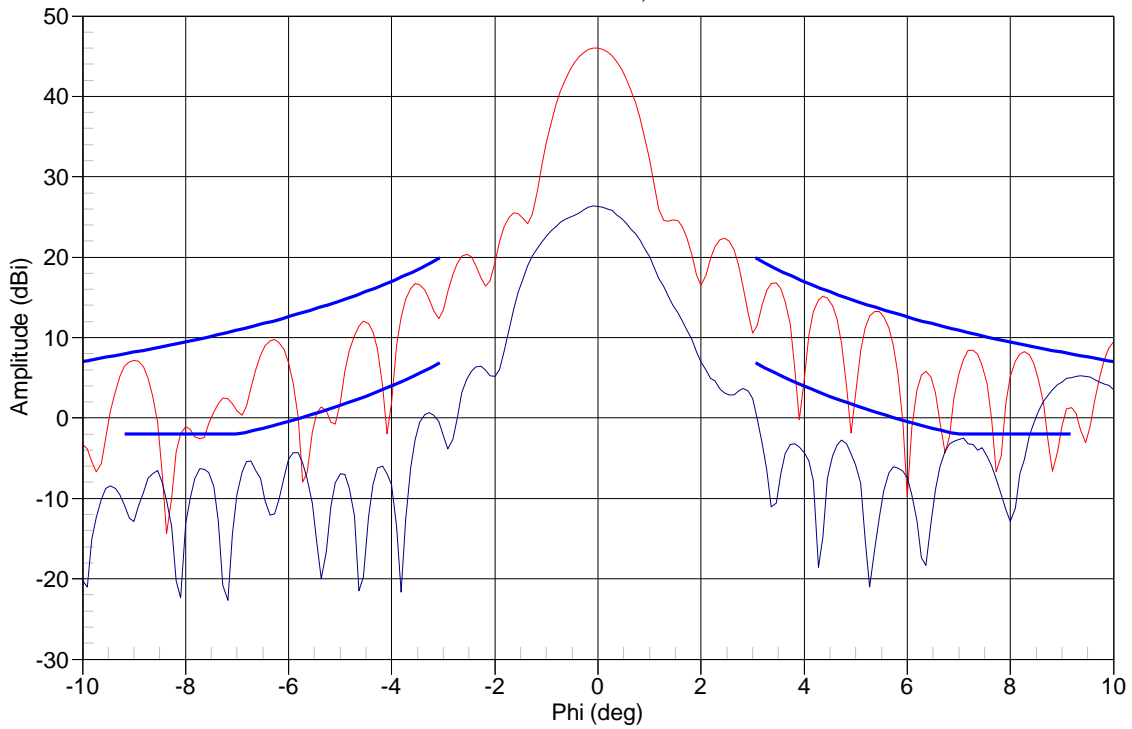


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Elevation Pattern, 29.75 GHz

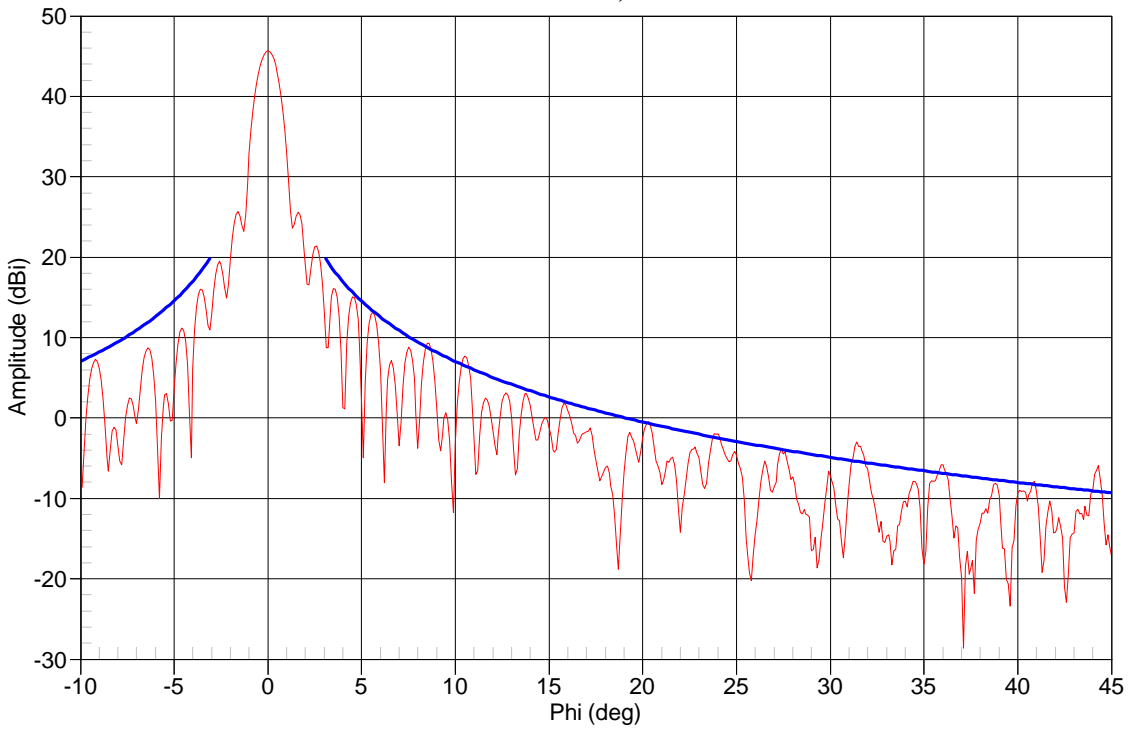


Elevation Pattern, 30 GHz

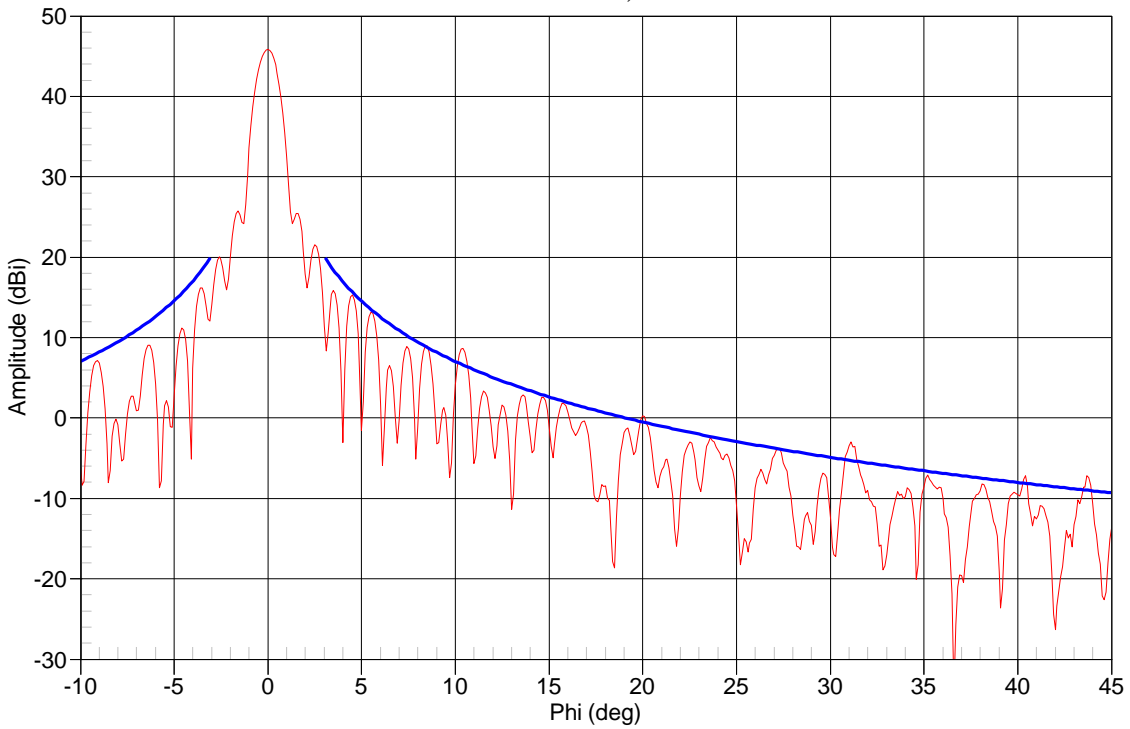


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Elevation Pattern, 29.25 GHz

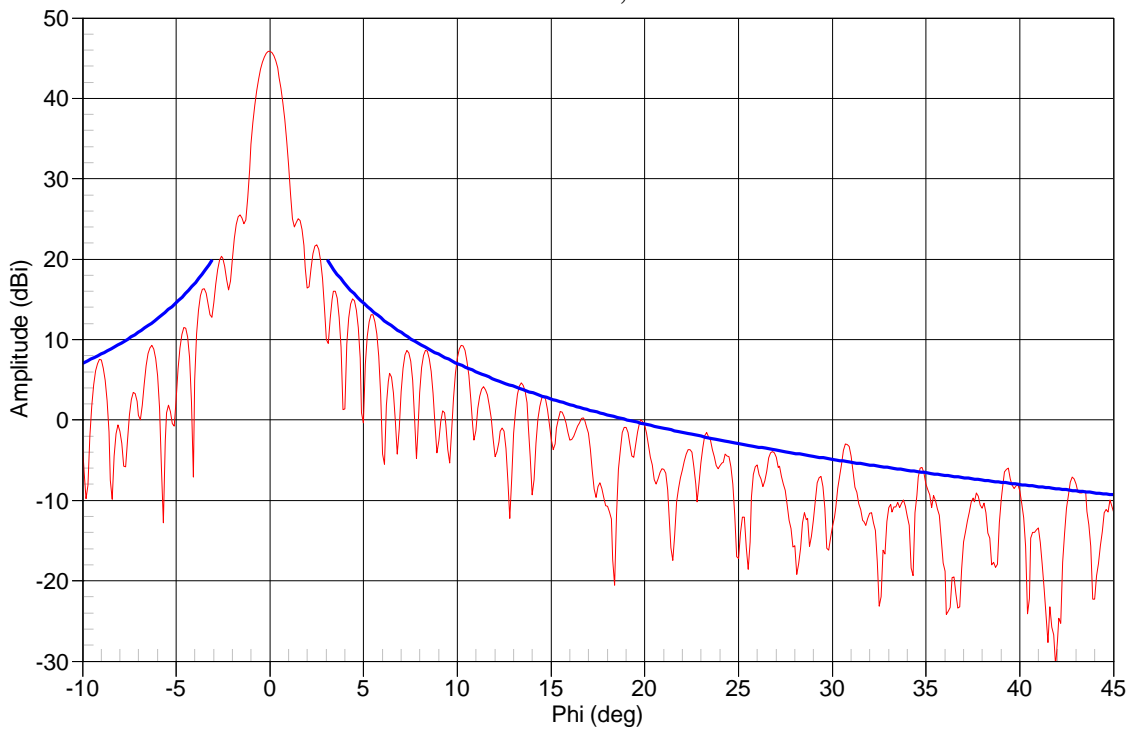


Elevation Pattern, 29.5 GHz

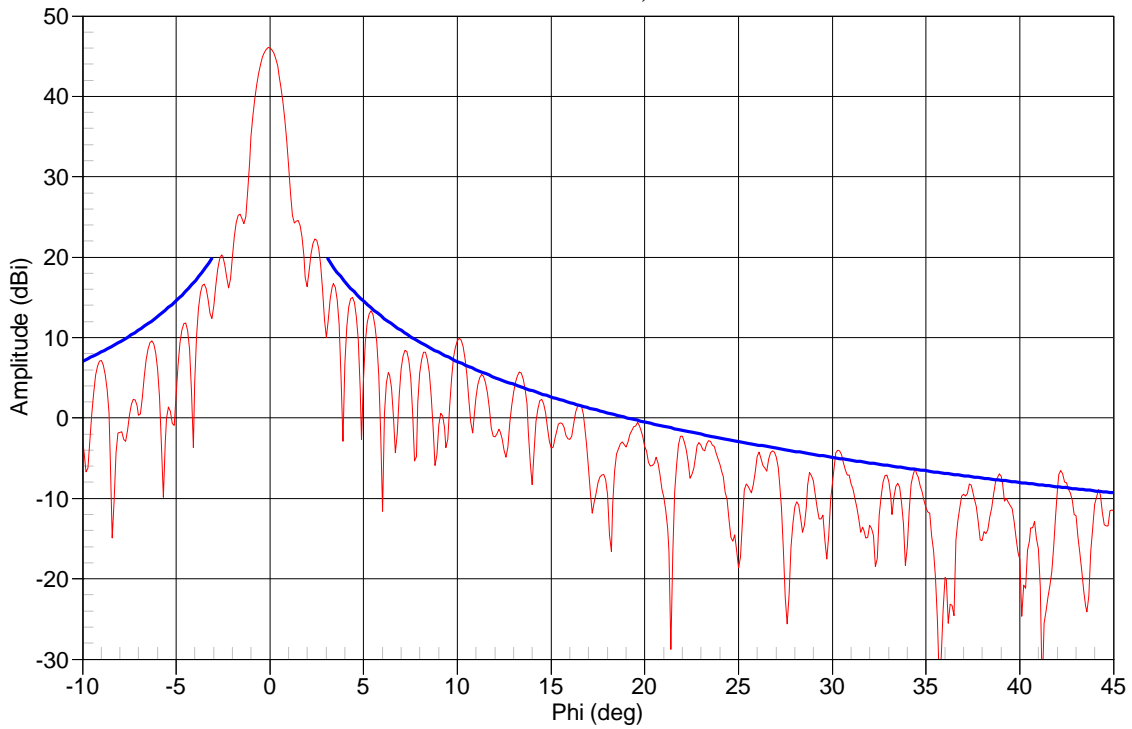


WINEGARD

Elevation Pattern, 29.75 GHz

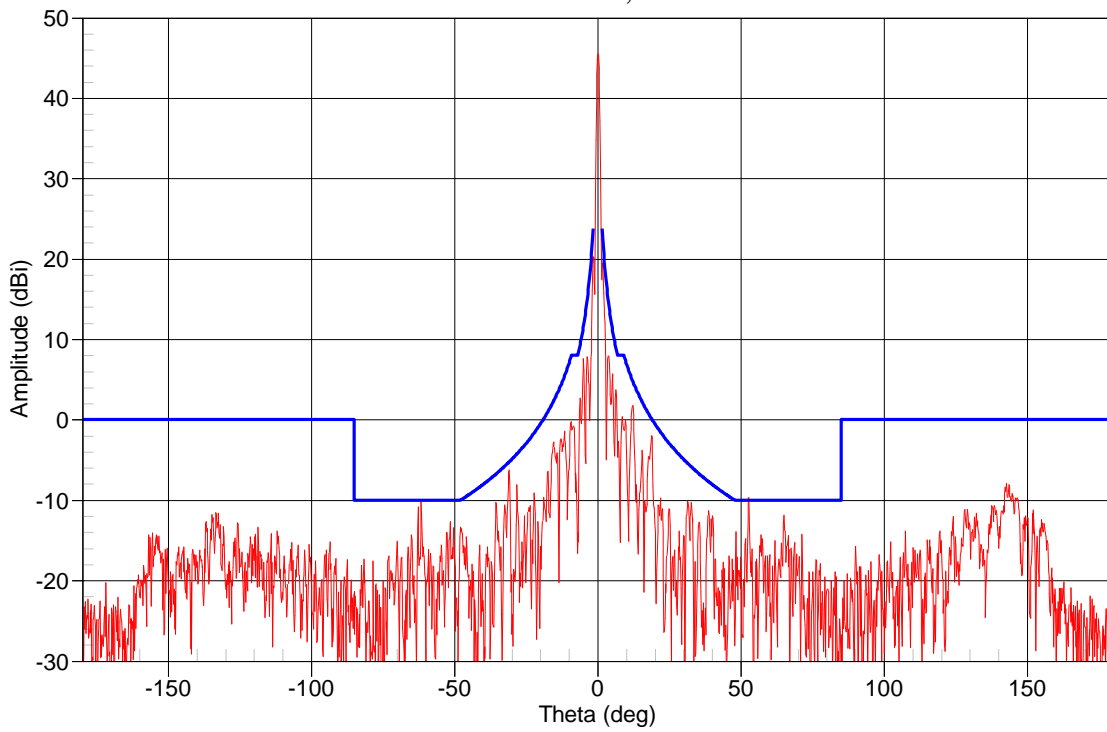


Elevation Pattern, 30 GHz

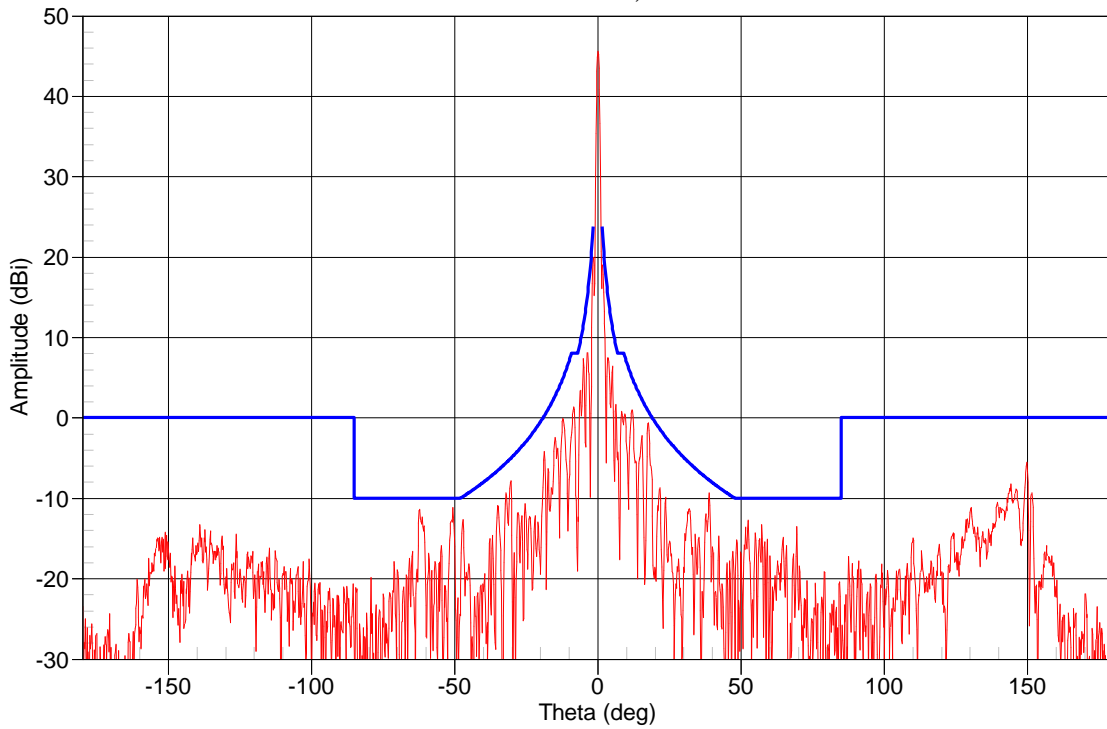


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Azimuthal Pattern, 29.25 GHz

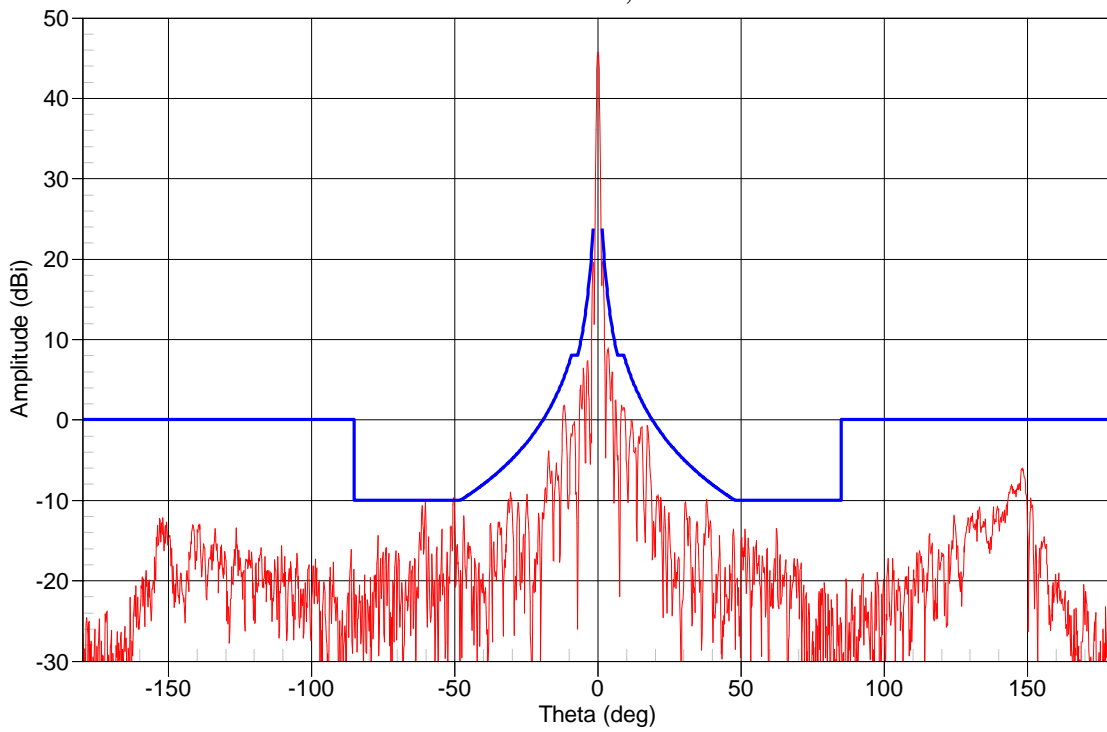


Azimuthal Pattern, 29.5 GHz



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Azimuthal Pattern, 29.75 GHz



Azimuthal Pattern, 30 GHz

