Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Broadband Horn Antenna

N Female/2-18GHz/15dBi Typ, Gain

Model: TL-20180HA21N

TL-20180HA21N is a broadband horn antenna that operates from 2 GHz to 18 GHz. The antenna offers 15 dBi nominal gain.The input of this antenna offers coax adapter structure with N female. The standard gain horn is offered for antenna range calibration purpose mainly, but it can be also used for general purpose system set ups.

Features:

- Operating Frequency 2 to 18 GHz
- Gain: 15dBi Typ
- Good Impedance Match

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	2		18	GHz
Gain	7.5	15	21	dBi
Input VSWR			1.8	:1
Antenna Beamwidth	E plane: 14.3°-84.6°; H plane: 10.4°-69.7°			°

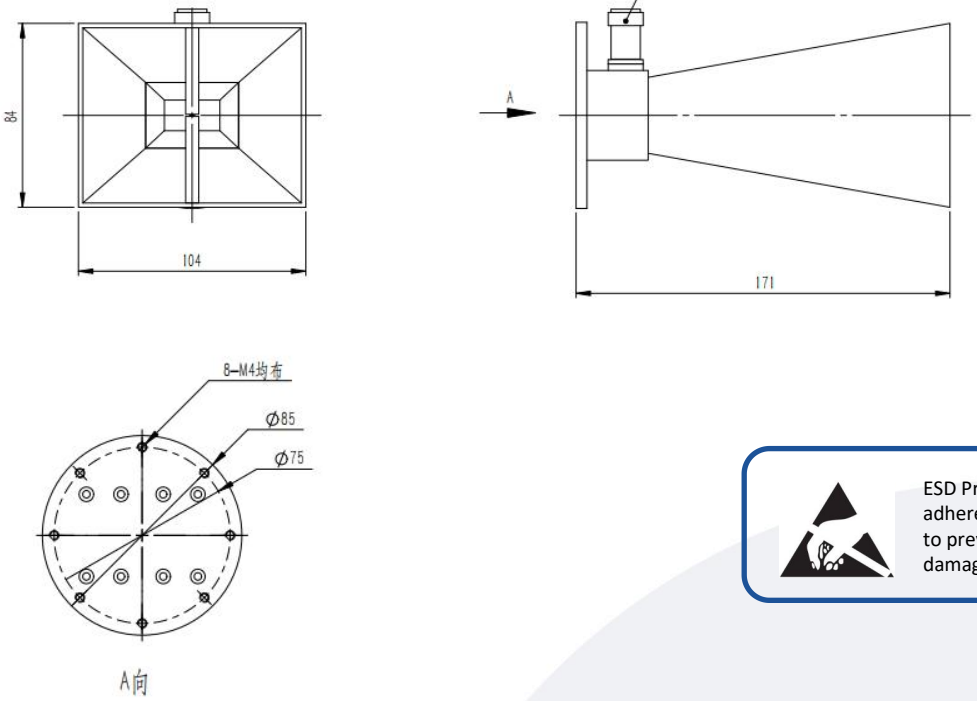
Envrionmental And Physical Characteristics:

Parameter	Value	Units
Material	Aluminum	
Connectors	N Female	
Size	104*84*171	mm

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

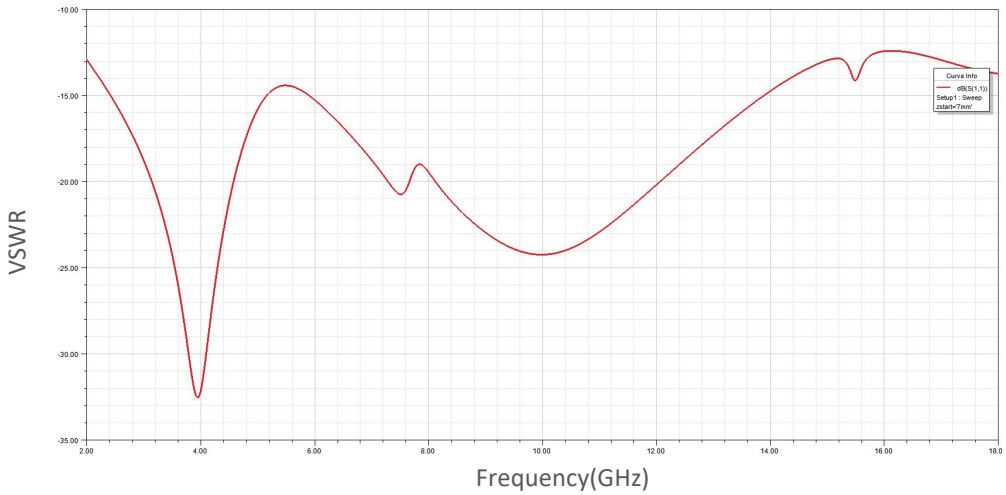
Ordering Information:

ase Number	Description	Revision
TL-20180HA21N	Broadband Horn Antenna, 2-18GHz,Gain: 15dBi Typ.	Rev.1.0

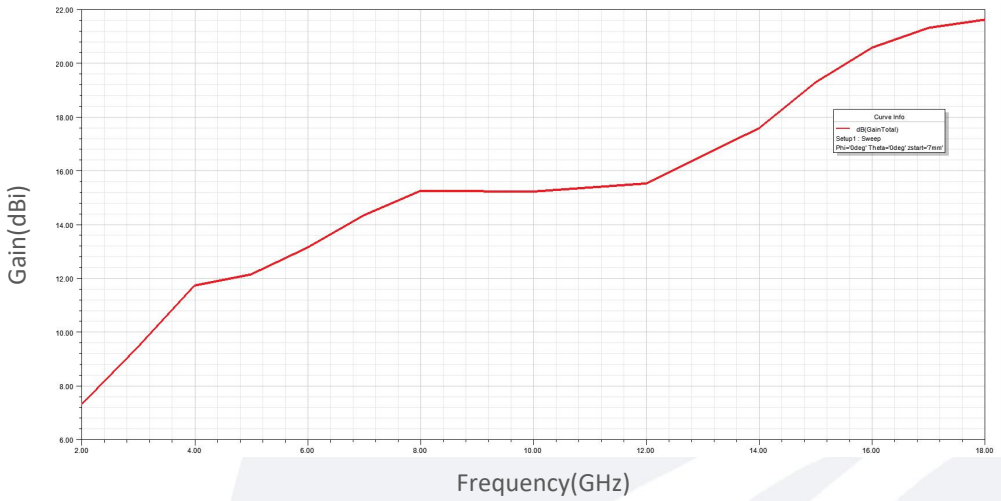
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

VSWR vs Frequency

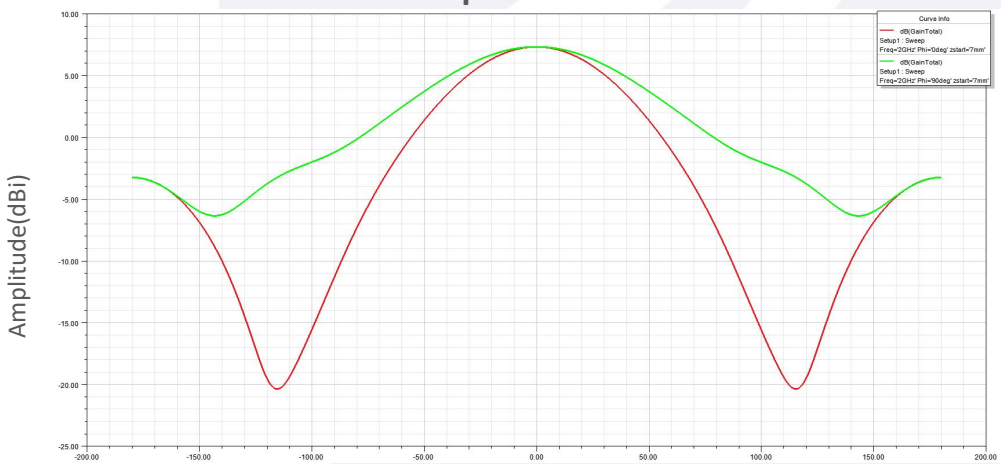


Gain vs Frequency



2GHz:

Amplitude vs Theta

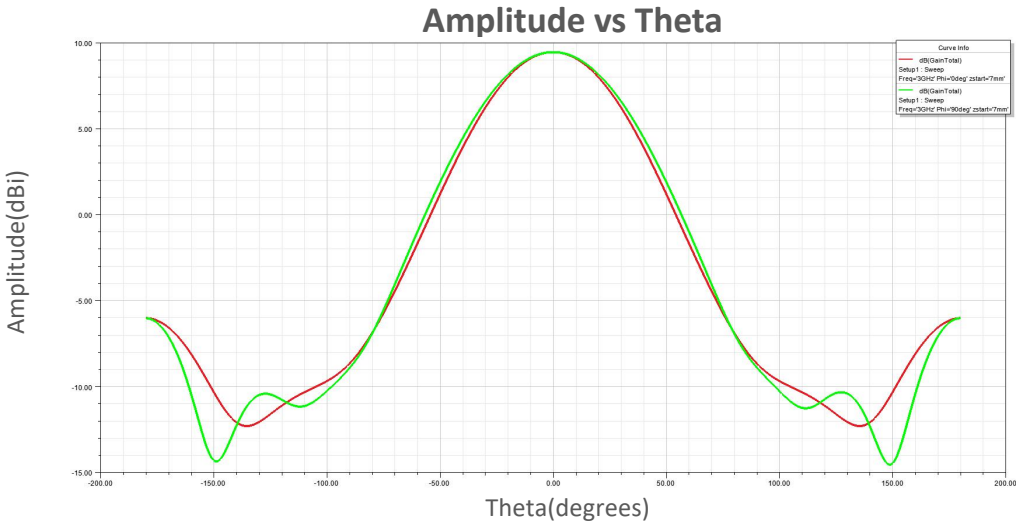


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

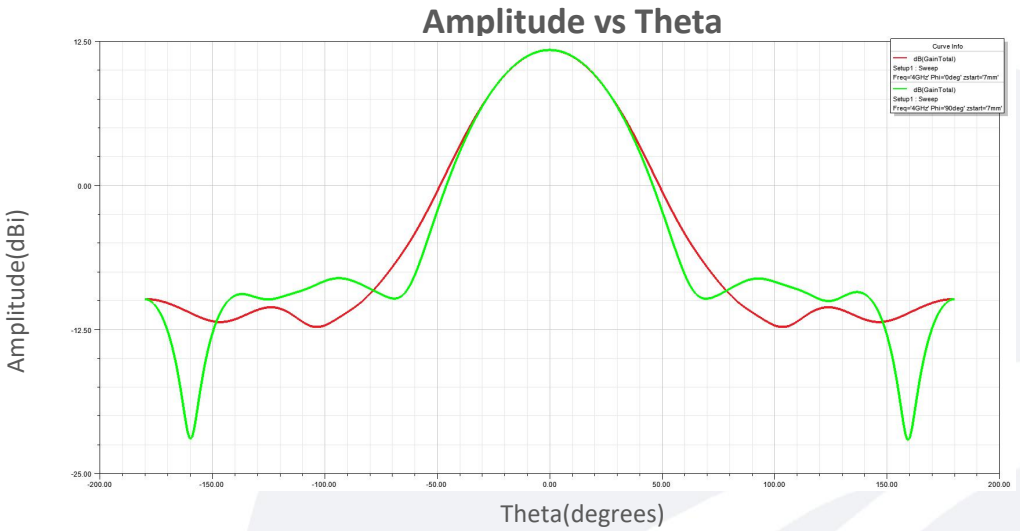
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

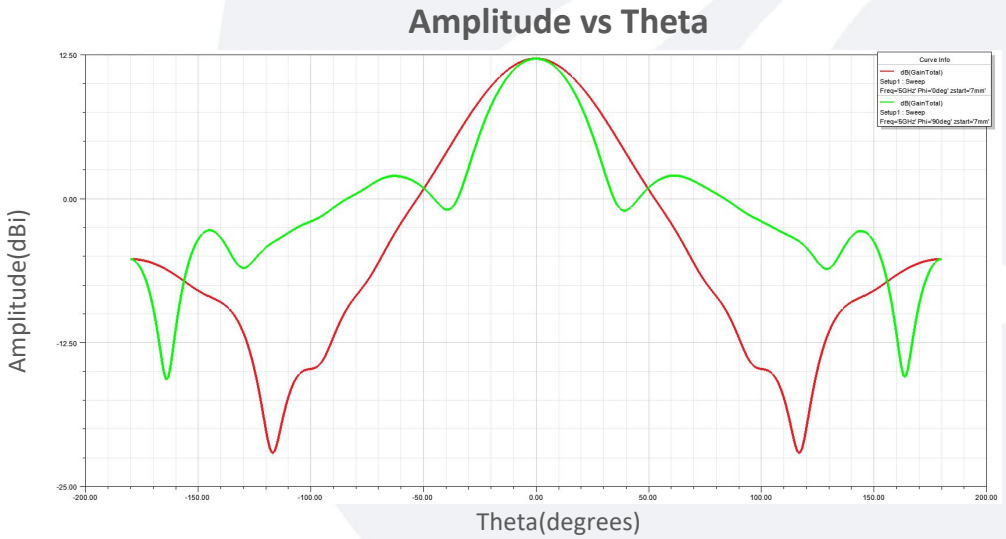
3GHz:



4GHz:



5GHz:

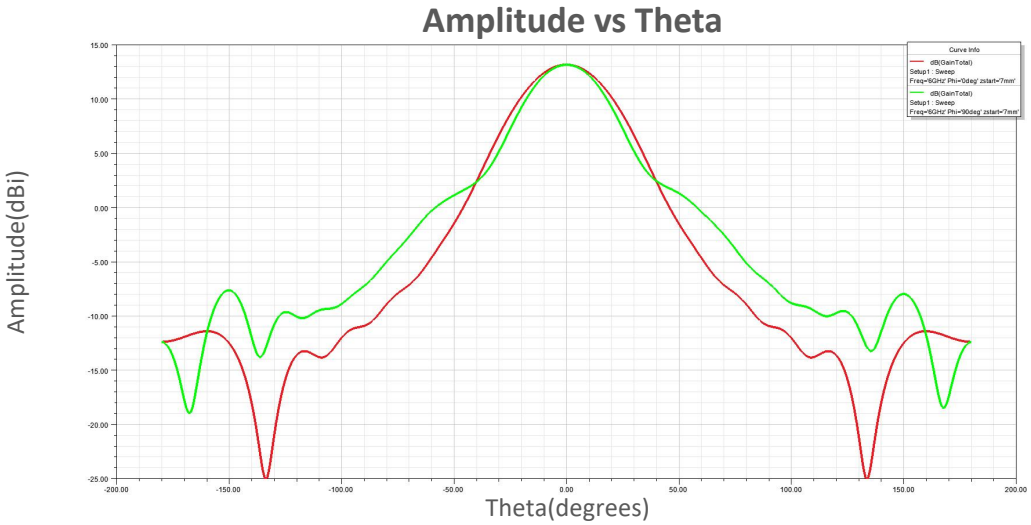


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

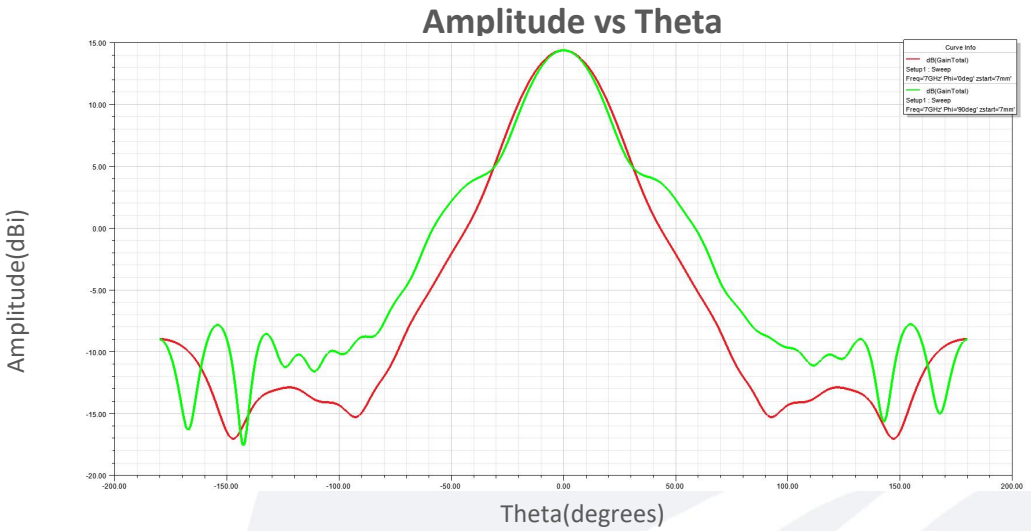
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

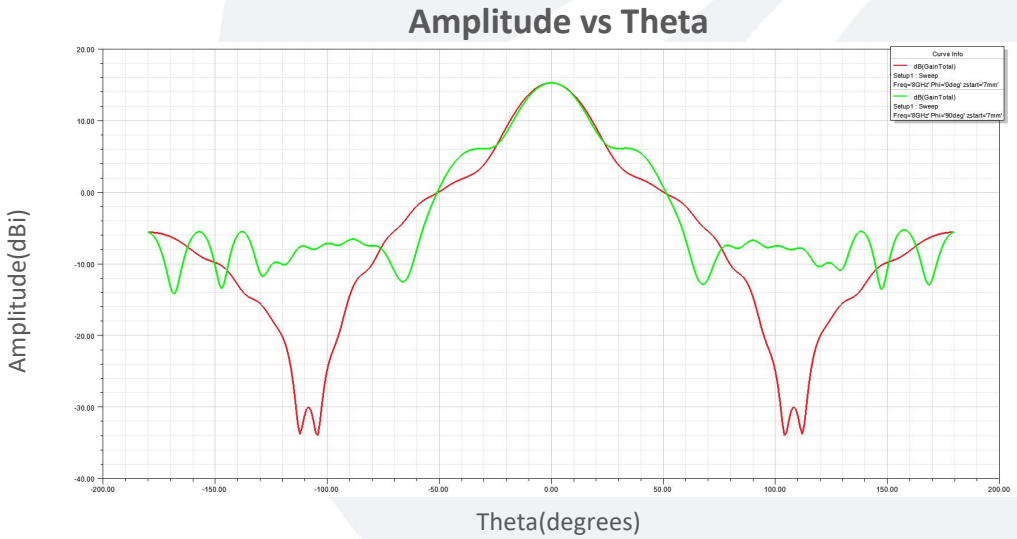
6GHz:



7GHz:



8GHz:

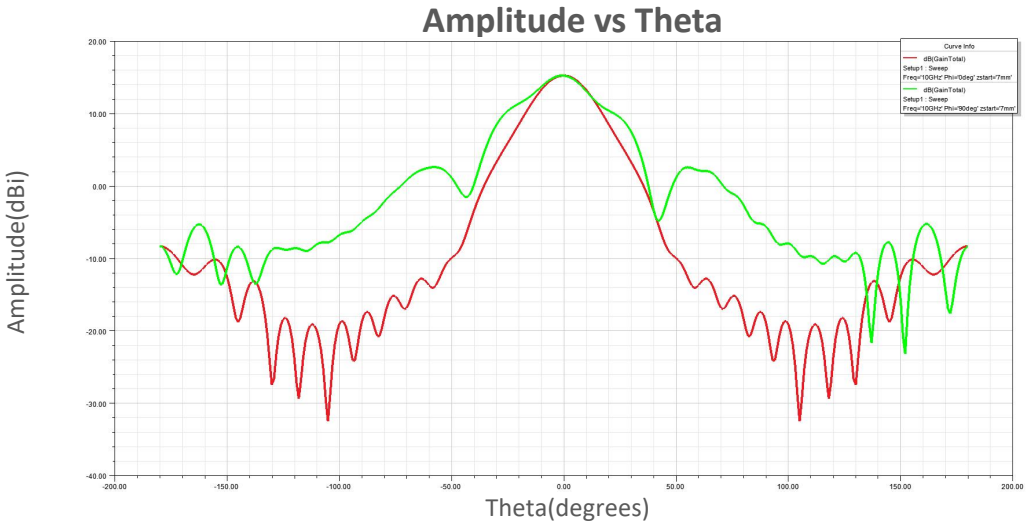


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

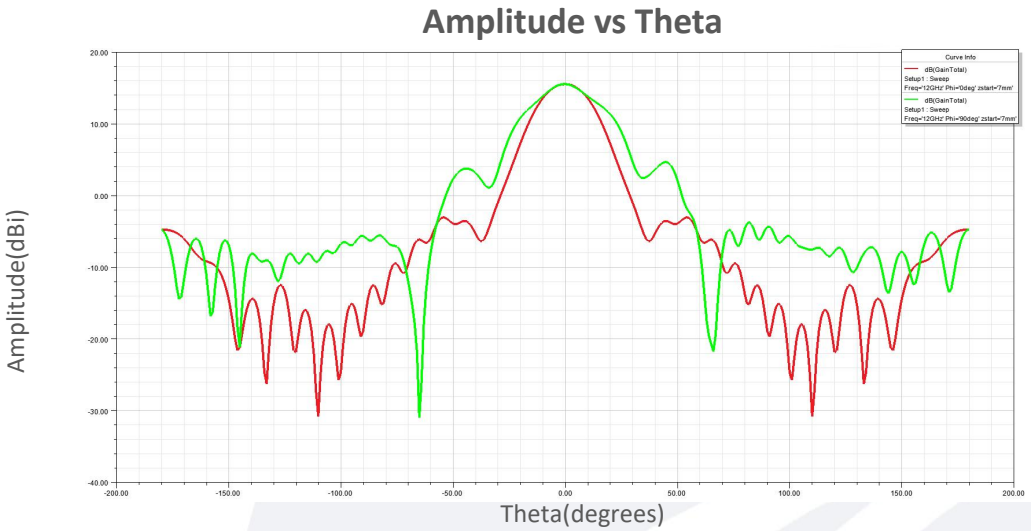
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

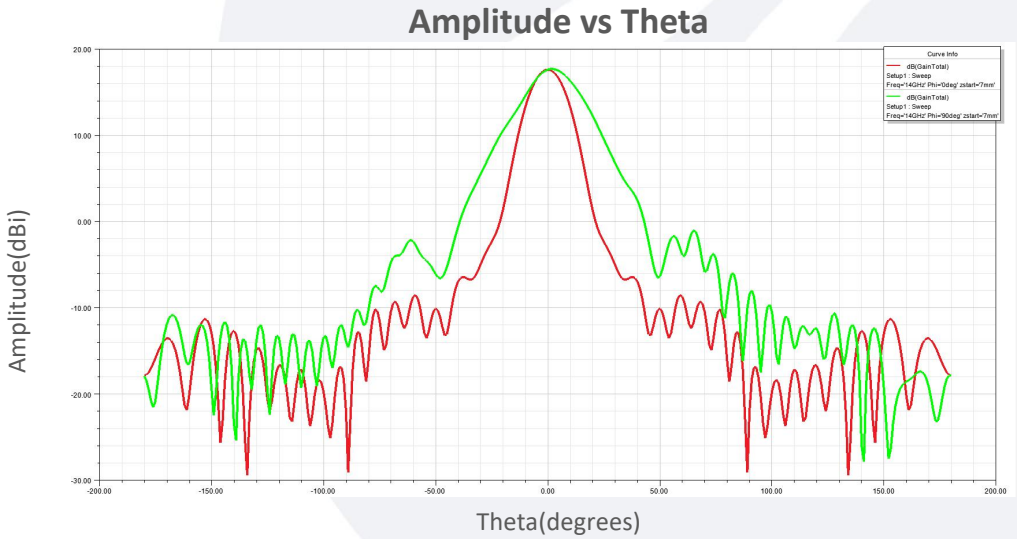
10GHz:



12GHz:



14GHz:

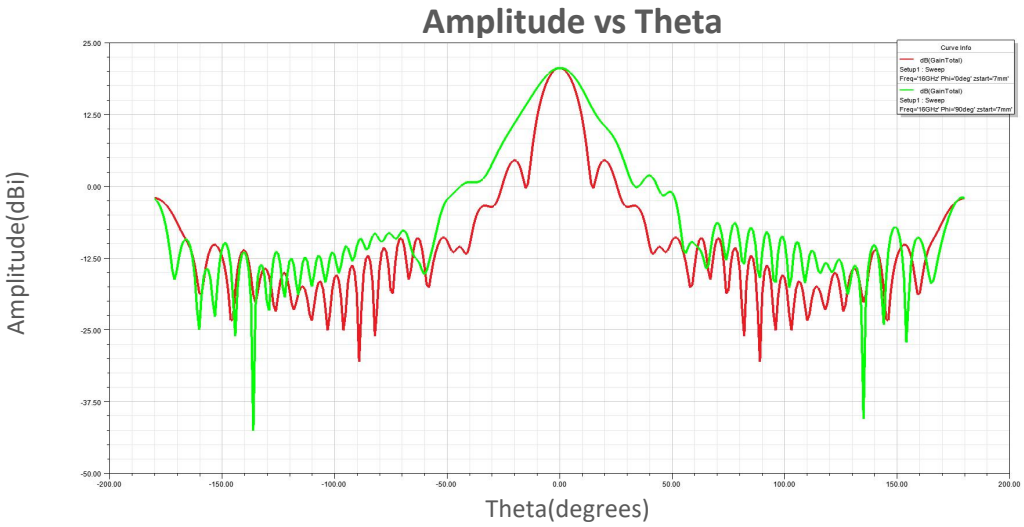


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

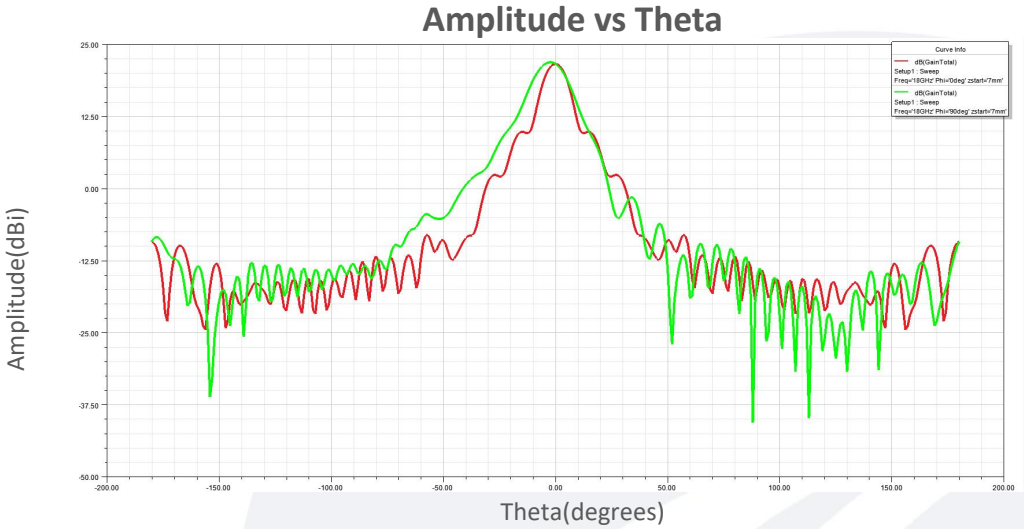
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

16GHz:



18GHz:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.