

## Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

**PART NUMBER: ICEFINXXX**

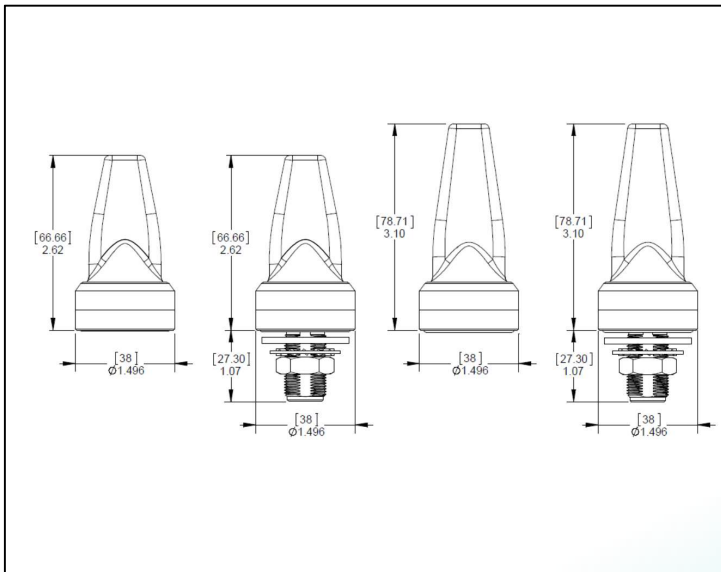


### Features:

- Transparent clear visually appealing plastic radome
- Short, slim profile without sacrificing RF or mechanical performance
- Direct and NMO mount models
- IP67 Weatherproof

### Applications:

- Models supporting :
  - Public Safety, LMR
  - Wi-Fi,
  - 3G/4G LTE,
  - ISM
  - DSRC
- Bus/Rail/Transit
- IoT – Vending, metering and other industrial applications
- Outdoor Vehicular



All dimensions are in mm / inches

Issue: 1743

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Jiangsu Province, Suzhou 215009 PR China  
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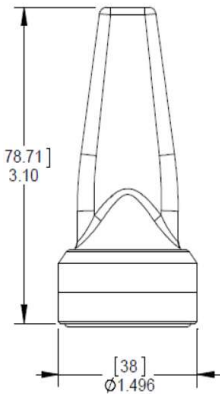
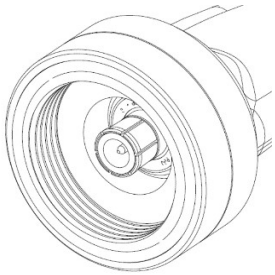
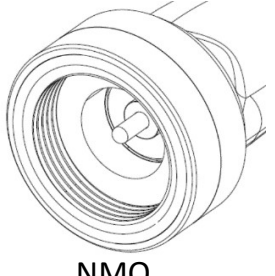
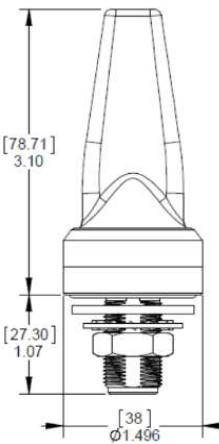
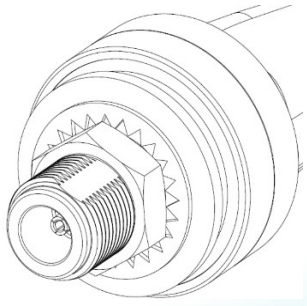


Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

This document covers all product variants of the following product family:

| Project          | Color   | Frequency                  | Size                                                                                 | Fixing System Connector                                                                                                                                         |
|------------------|---------|----------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICEFINLNMOHF     | Clarity | 698-960MHz<br>1710-2700MHz |   | <br>NMOHF<br>NMO + HF Connector                                              |
| ICEFIN698/960NMO | Clarity | 750-960MHz                 |                                                                                      | <br>NMO<br>Pogo Pin Connector                                               |
| ICEFIN806NMO     | Clarity | 806-960MHz                 |                                                                                      |                                                                                                                                                                 |
| ICEFIN698/869DMN | Clarity | 698-869MHz                 |  | <br>DMN<br>Direct Mount + N Female<br>Connector<br>(Screw 5/18-24 UNEF 2A) |
| ICEFIN806DMN     | Clarity | 806-960MHz                 |                                                                                      |                                                                                                                                                                 |
| ICEFINLDMN       | Clarity | 698-960MHz<br>1710-2700MHz |                                                                                      |                                                                                                                                                                 |

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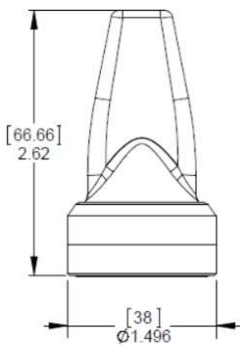
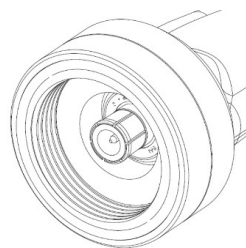
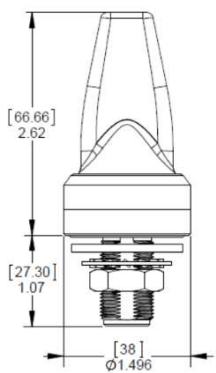
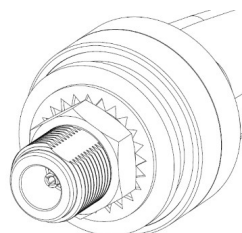
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| Project       | Color   | Frequency                    | Size                                                                                | Fixing System Connector                                                                                                                                      |
|---------------|---------|------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICEFIN24NMOHF | Clarity | 2400-2500MHz                 |   | <br><b>NMOHF</b><br>NMO + HF Connector                                    |
| ICEFIN49NMOHF | Clarity | 4900-6000MHz                 |                                                                                     |                                                                                                                                                              |
| ICEFINWNMOHF  | Clarity | 2400-2500MHz<br>4900-6000MHz |                                                                                     |                                                                                                                                                              |
| ICEFIN24DMN   | Clarity | 2400-2500MHz                 |  | <br><b>Direct Mount</b><br>N Female Connector<br>(Screw 5/18-24 UNEF 2A) |
| ICEFIN49DMN   | Clarity | 4900-6000MHz                 |                                                                                     |                                                                                                                                                              |
| ICEFINWDMN    | Clarity | 2400-2500MHz<br>4900-6000MHz |                                                                                     |                                                                                                                                                              |

P.S.: For DMN fixing system, it requires a 5/8" (16mm) hole in the mounting surface.

Remove any burrs, particularly on the Roof under side of the hole. Remove paint in a narrow ring around the hole. Metal-to-metal contact between the mounting surface and mount is essential for best performance.

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Description: LOW PROFILE MULTIBAND  
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### ELECTRICAL SPECIFICATIONS

| Project          | Frequency                  | VSWR                                     | Peak Gain                                       | Efficiency | Power Handling                                        |
|------------------|----------------------------|------------------------------------------|-------------------------------------------------|------------|-------------------------------------------------------|
| ICEFINLNMOHF     | 698-960MHz<br>1710-2700MHz | 3.2:1(0.698-0.96GHz)<br>2:1(1.71-2.7GHz) | 2.98dBi(0.698-0.96GHz)<br>3.82dBi(1.71-2.69GHz) | 75%<br>61% | 20W(100%<br>duty cycle)<br><br>30W(50%<br>duty cycle) |
| ICEFIN698/960NMO | 750-960MHz                 | 2.2:1                                    | 4.5dBi                                          | 65%        | 30W(100%<br>duty cycle)<br><br>40W(50%<br>duty cycle) |
| ICEFIN806NMO     | 806-960MHz                 | 2.2:1                                    | 2.91dBi                                         | 63%        | 30W(100%<br>duty cycle)<br><br>40W(50%<br>duty cycle) |
| ICEFIN698/869DMN | 698-869MHz                 | 2.3:1                                    | 2.6dBi                                          | 54%        | 5W(100%<br>duty cycle)<br><br>15W(50%<br>duty cycle)  |
| ICEFIN806DMN     | 806-960MHz                 | 2.2:1                                    | 3.7dBi                                          | 78%        | 10W(100%<br>duty cycle)<br><br>20W(50%<br>duty cycle) |
| ICEFINLDMN       | 698-960MHz<br>1710-2700MHz | 3.2:1(0.698-0.96GHz)<br>2:1(1.71-2.7GHz) | 3.1dBi(0.698-0.96GHz)<br>5.17dBi(1.71-2.69GHz)  | 76%<br>79% | 20W(100%<br>duty cycle)<br><br>30W(50%<br>duty cycle) |

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| Project       | Frequency                    | VSWR                             | Peak Gain        | Efficiency | Power Handling                               |
|---------------|------------------------------|----------------------------------|------------------|------------|----------------------------------------------|
| ICEFIN24NMOHF | 2400-2500MHz                 | 2:1                              | 5.2dBi           | 88%        | 20W(100% duty cycle)<br>30W(50% duty cycle)  |
| ICEFIN49NMOHF | 4900-6000MHz                 | 2:1                              | 6.2dBi           | 66%        | 20W((100% duty cycle)<br>30W(50% duty cycle) |
| ICEFINWNNMOHF | 2400-2500MHz<br>4900-6000MHz | 2:1(2.4-2.5GHz)<br>2:1(4.9-6GHz) | 5.2dBi<br>6.2dBi | 88%<br>66% | 20W(100% duty cycle)<br>30W(50% duty cycle)  |
| ICEFIN24DMN   | 2400-2500MHz                 | 2:1                              | 5.2dBi           | 88%        | 20W(100% duty cycle)<br>30W(50% duty cycle)  |
| ICEFIN49DMN   | 4900-6000MHz                 | 2:1                              | 6.2dBi           | 66%        | 20W(100% duty cycle)<br>30W(50% duty cycle)  |
| ICEFINWDMN    | 2400-2500MHz<br>4900-6000MHz | 2:1(2.4-2.5GHz)<br>2:1(4.9-6GHz) | 5.2dBi<br>6.2dBi | 88%<br>66% | 20W(100% duty cycle)<br>30W(50% duty cycle)  |

Nominal Impedance

50Ω

Radiation Pattern

omni

Polarization:

Vertical

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### MECHANICAL SPECIFICATIONS

|                    |         |
|--------------------|---------|
| Plastic radome     | PC      |
| Color              | Clarity |
| Ingress Protection | IP67    |

### ENVIRONMENTAL SPECIFICATIONS

|                       |              |
|-----------------------|--------------|
| Operating temperature | -40 ~ +85° C |
|-----------------------|--------------|

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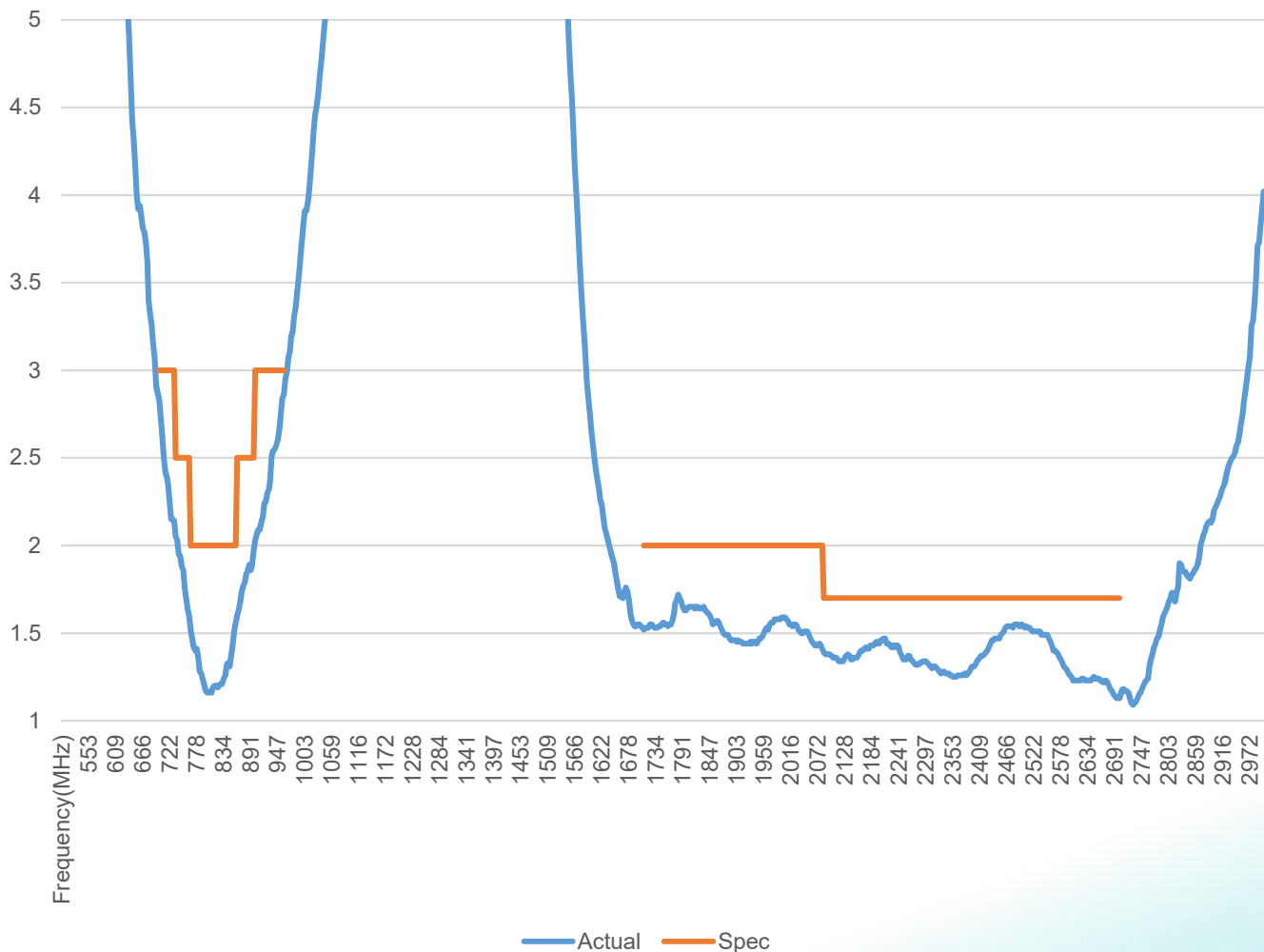
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## CHARTS

### VSWR

ICEFINLNMOHF  
VSWR



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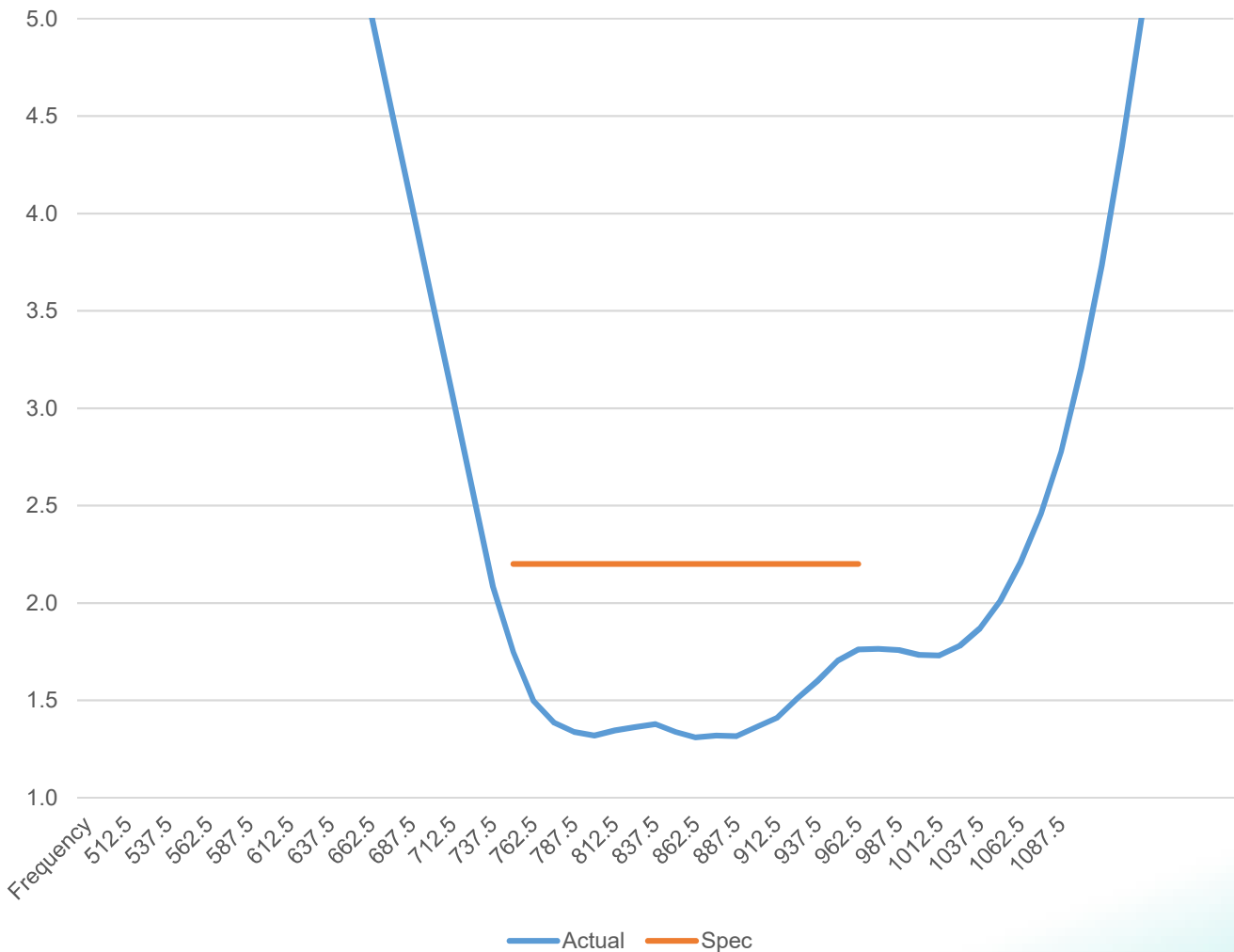
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CHARTS

VSWR

ICEFIN698/960NMO  
VSWR



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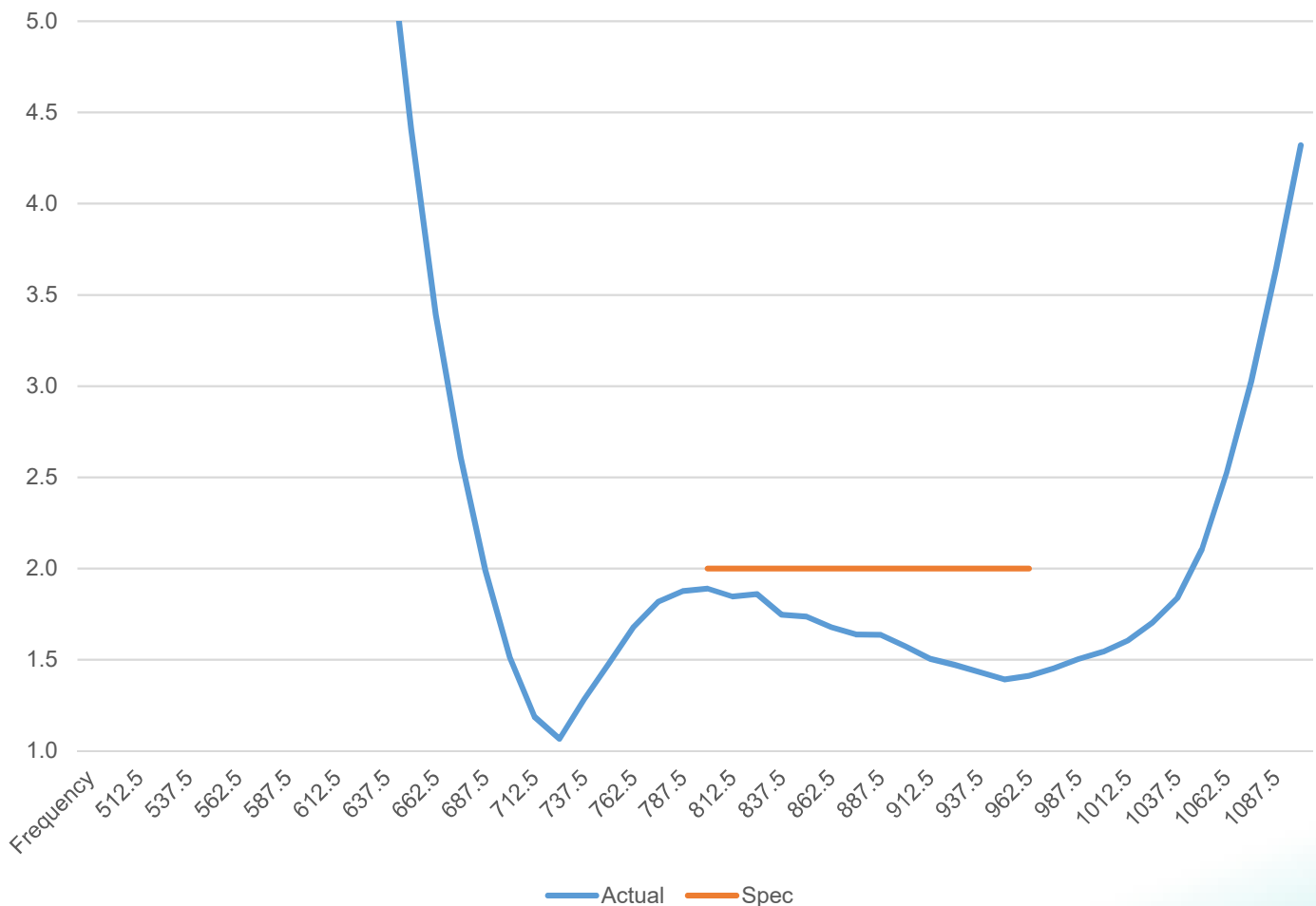
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## CHARTS

### VSWR

#### ICEFIN806NMO VSWR



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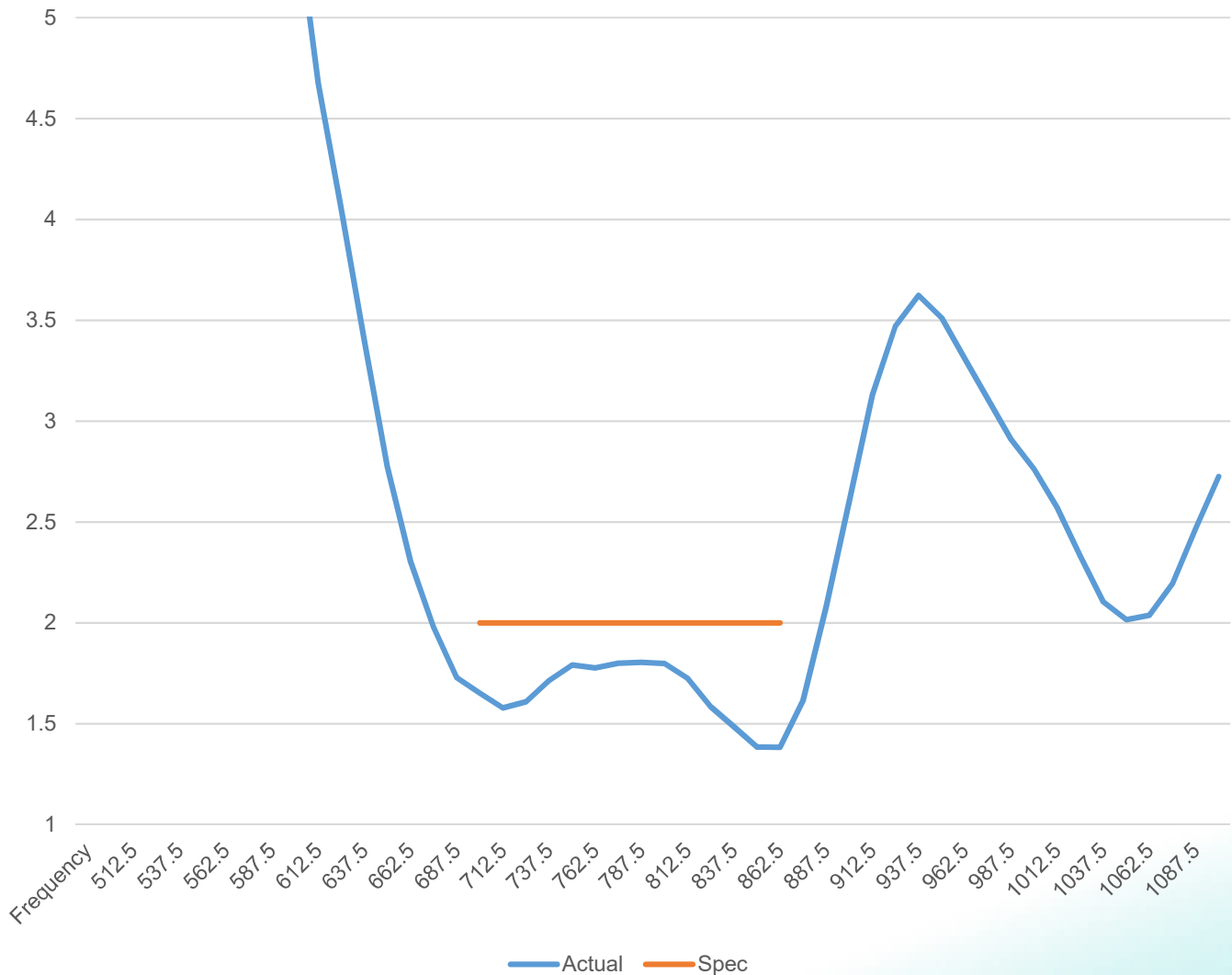
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## CHARTS

### VSWR

#### ICEFIN698/869DMN VSWR



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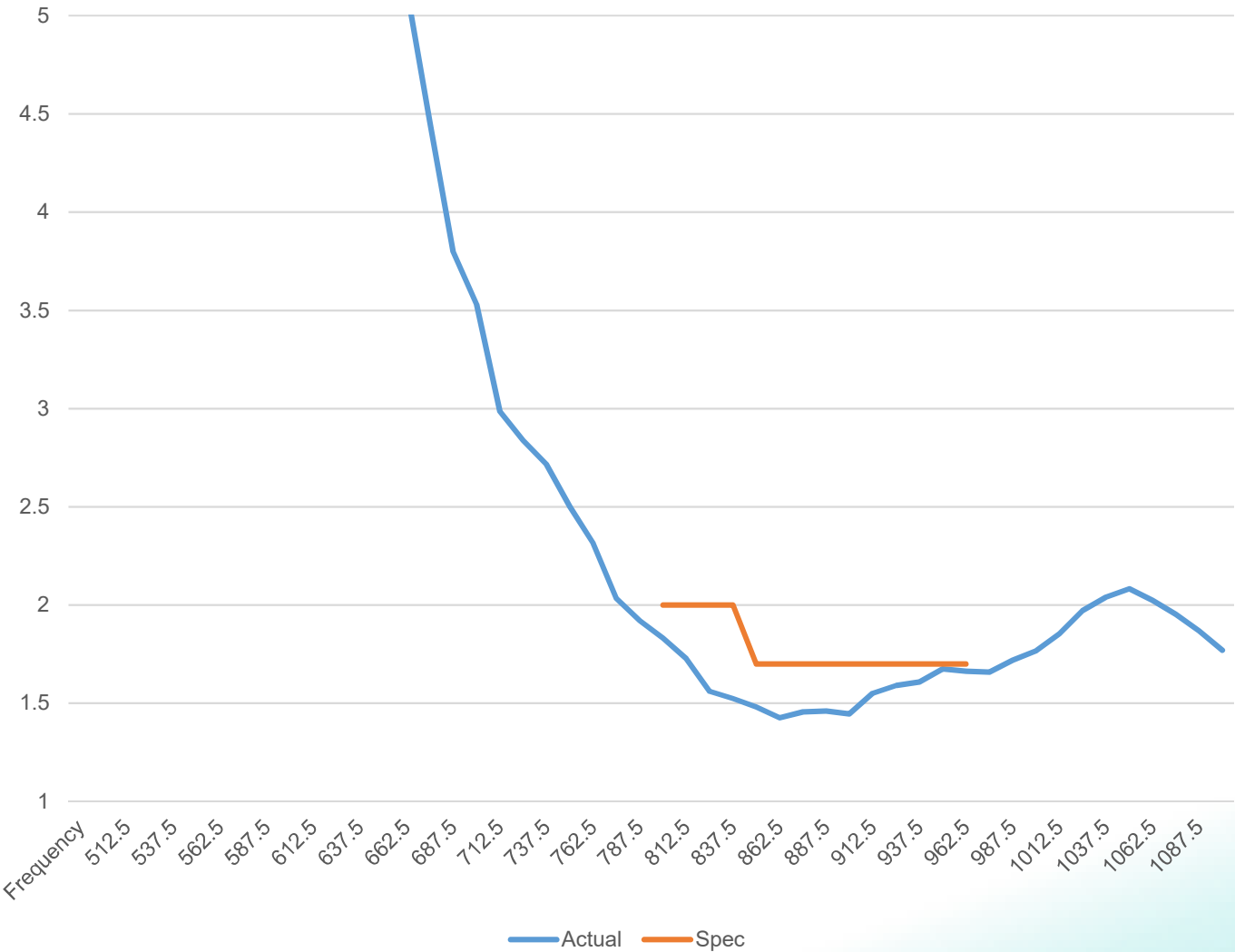
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CHARTS

VSWR

ICEFIN806DMN  
VSWR



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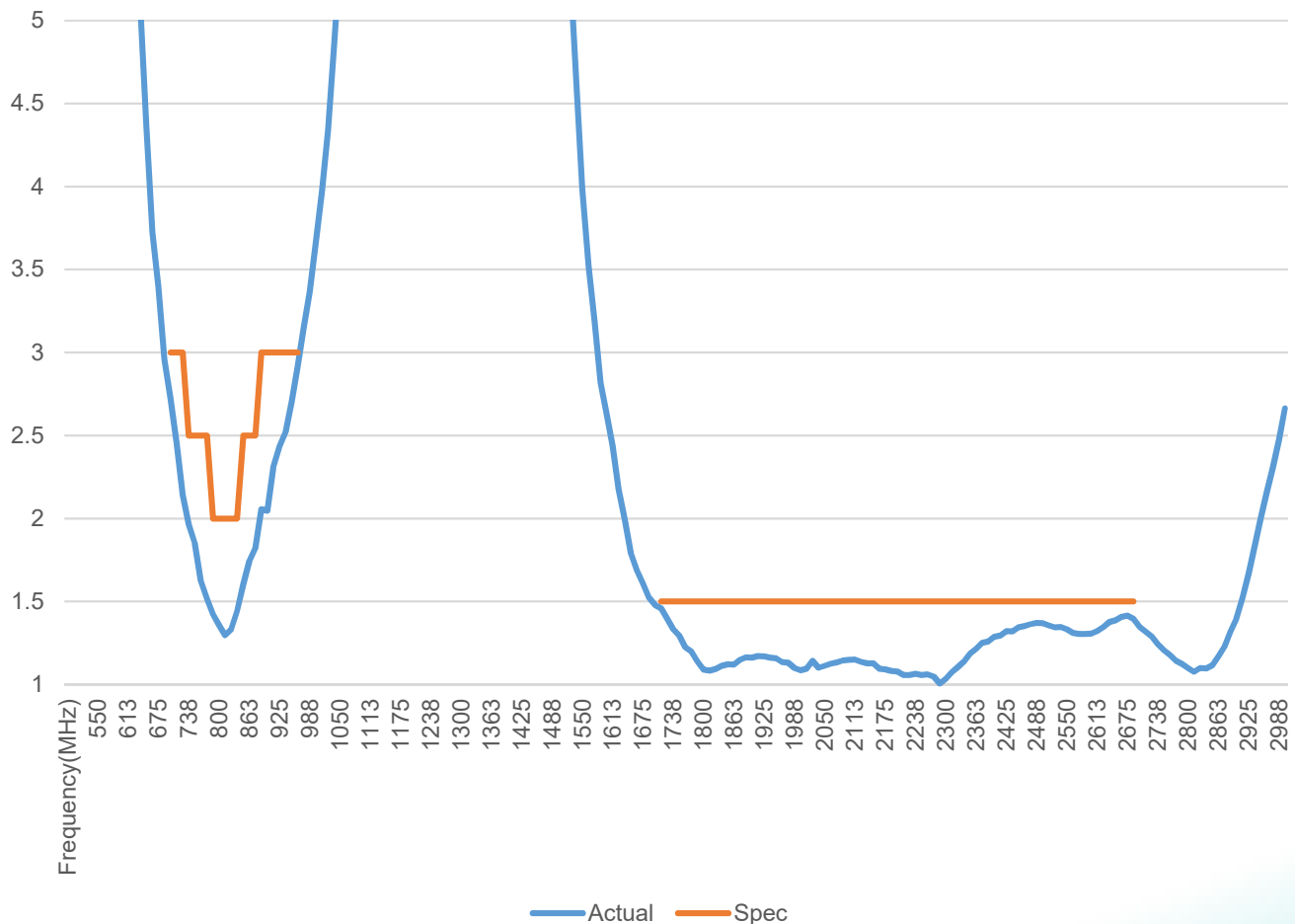
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## CHARTS

### VSWR

#### ICEFINLDMN VSWR



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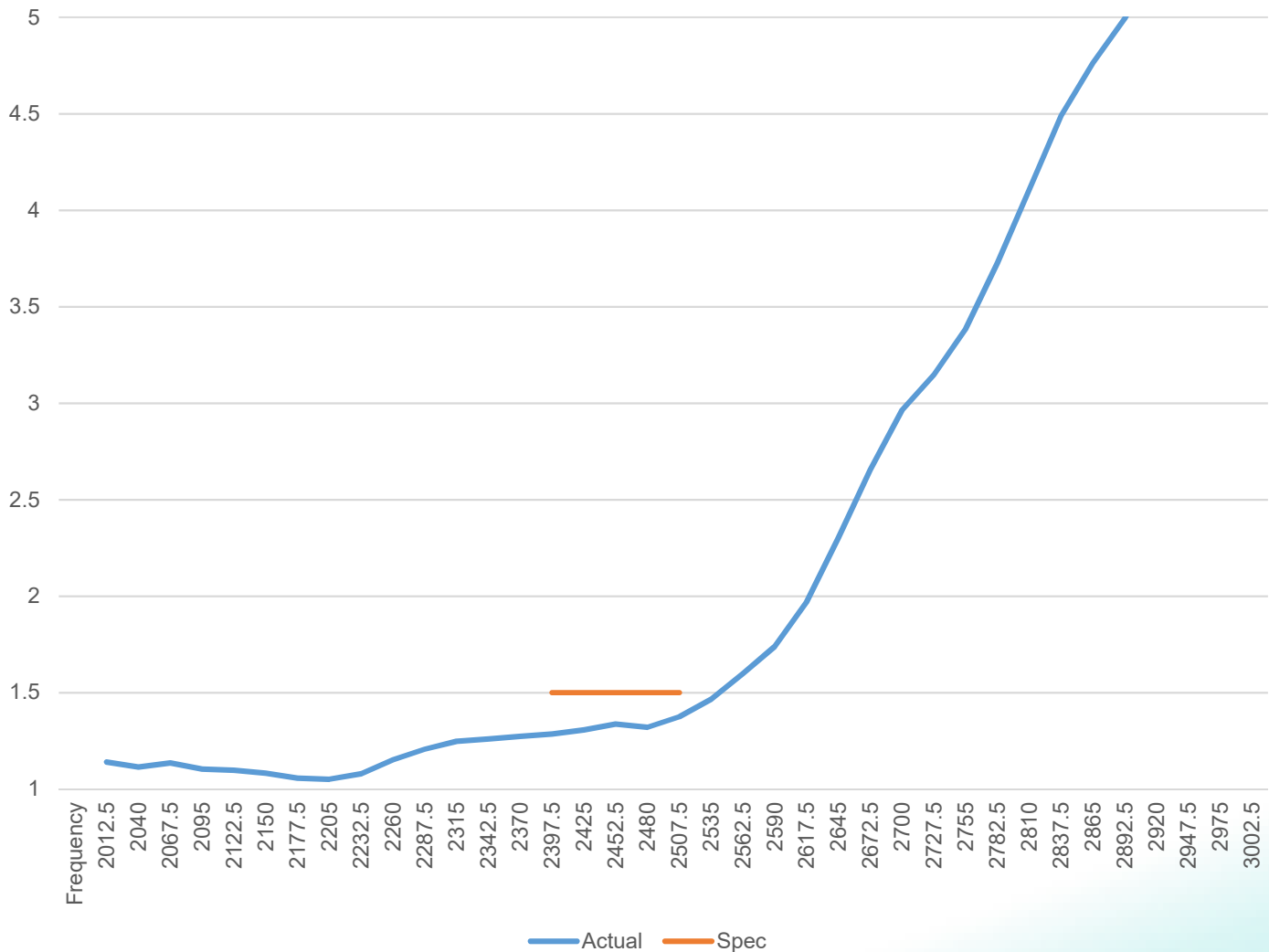
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## CHARTS

### VSWR

#### ICEFIN24NMOHF VSWR



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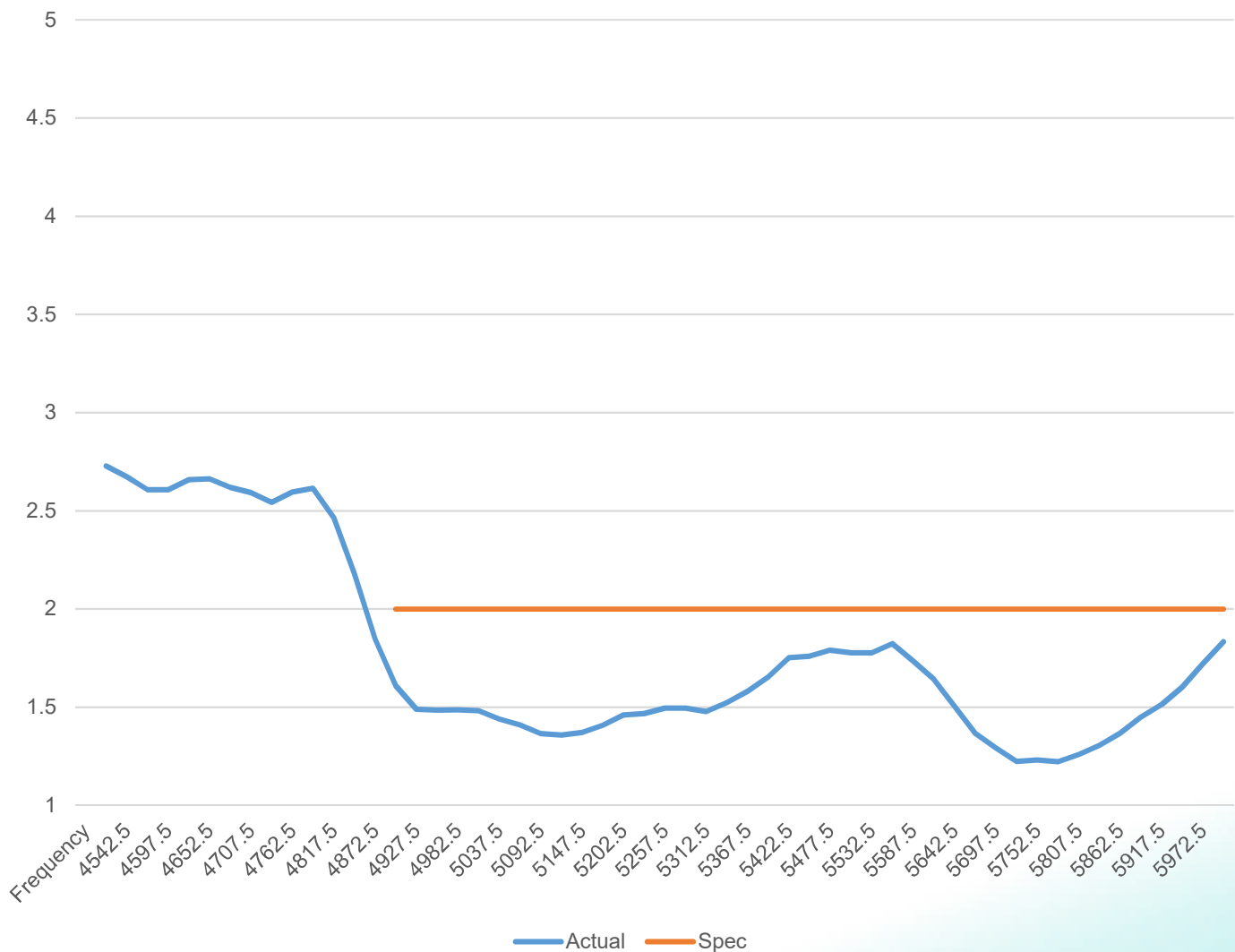
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## CHARTS

### VSWR

#### ICEFIN49NMOHF VSWR



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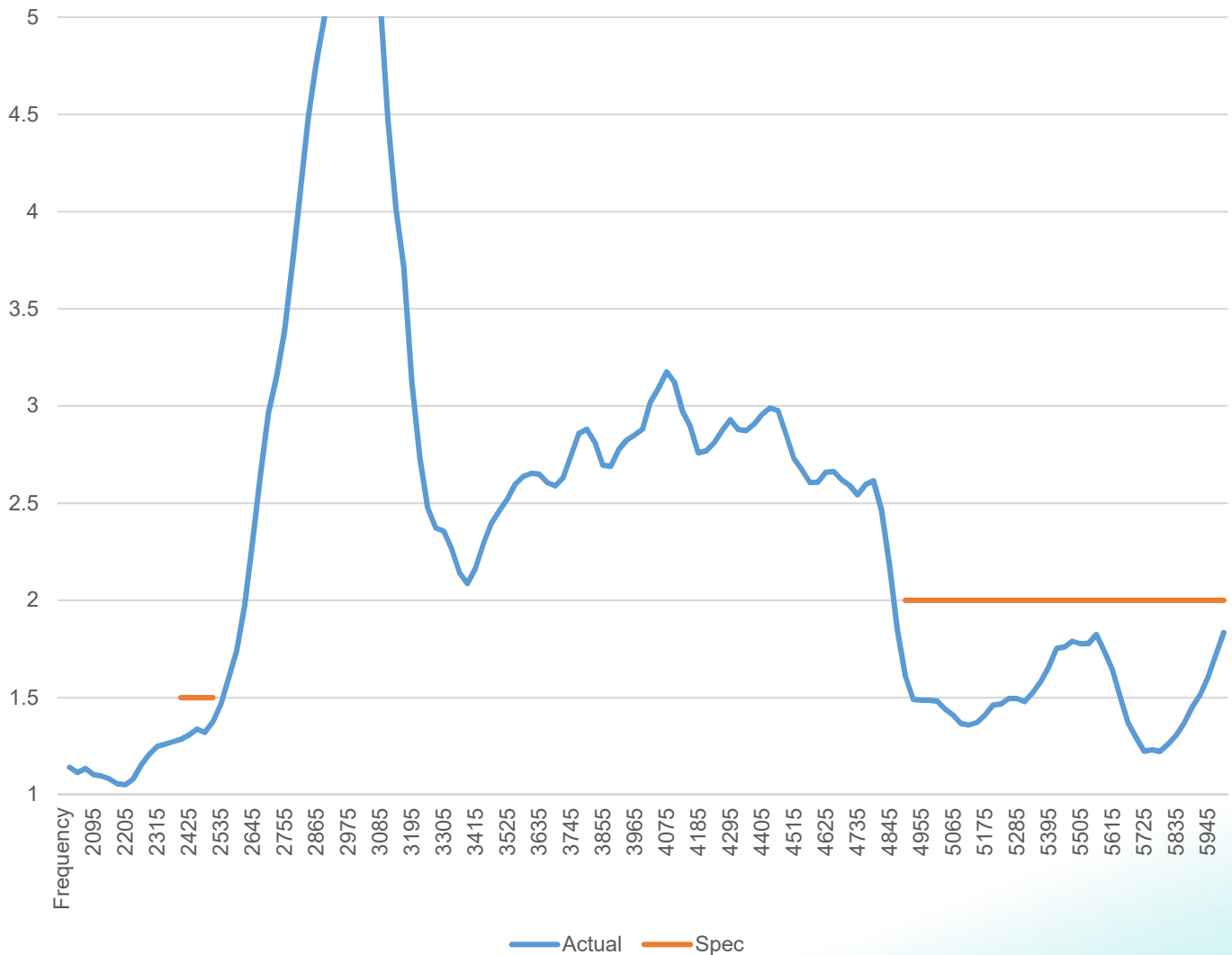
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## CHARTS

### VSWR

#### ICEFINWNMOHF VSWR



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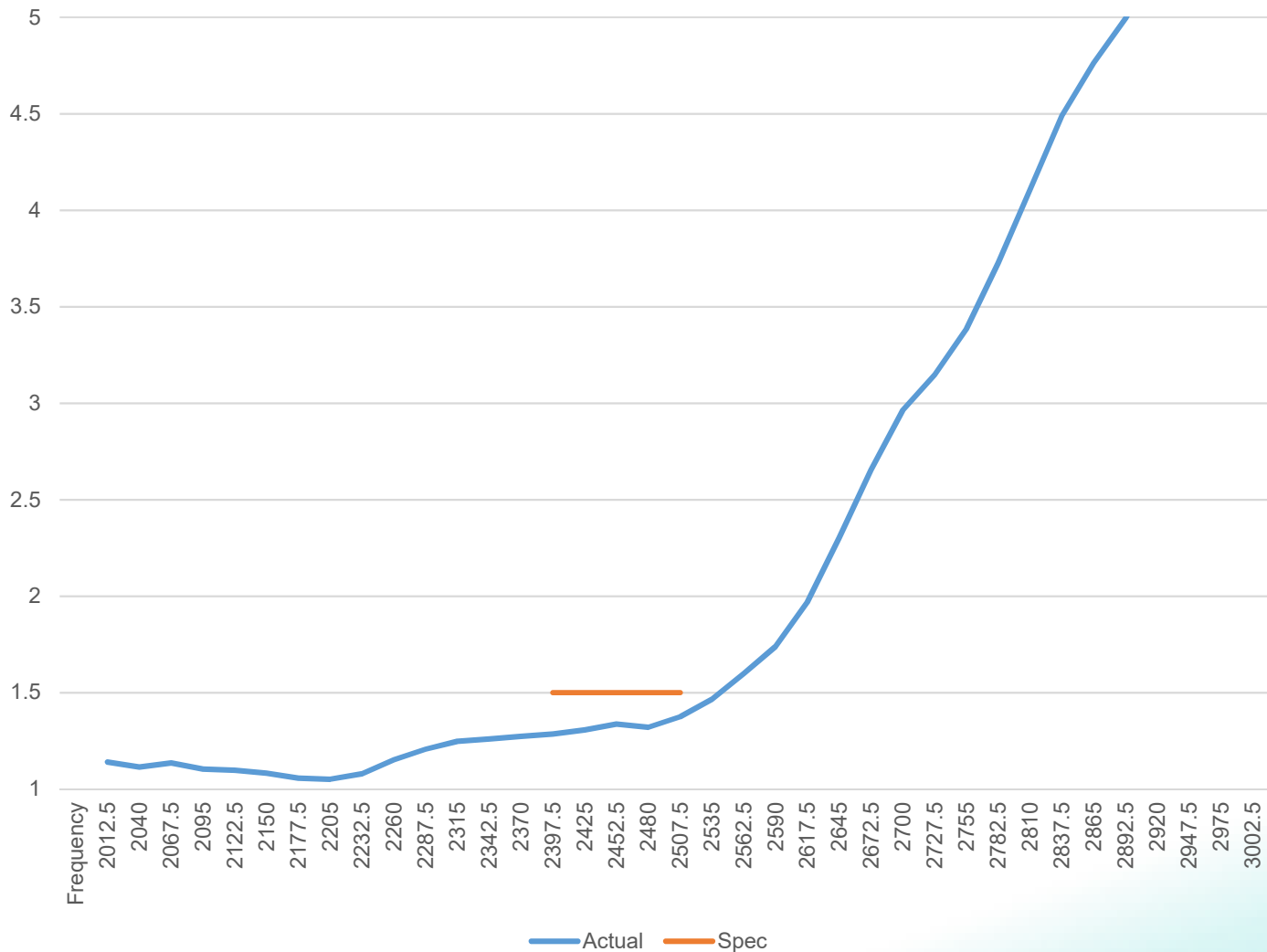
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## CHARTS

### VSWR

#### ICEFIN24DMN VSWR



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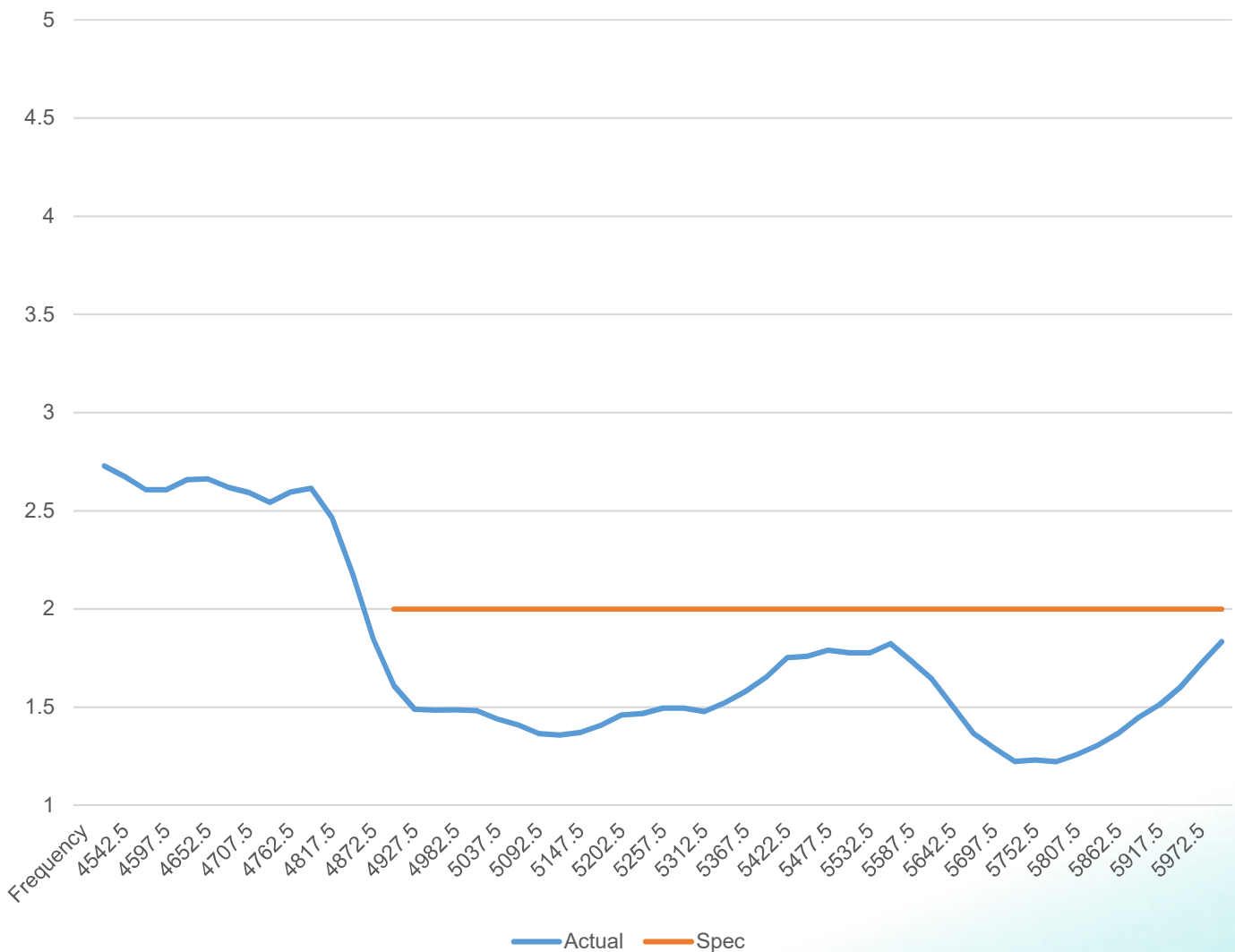
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## CHARTS

### VSWR

#### ICEFIN49DMN VSWR



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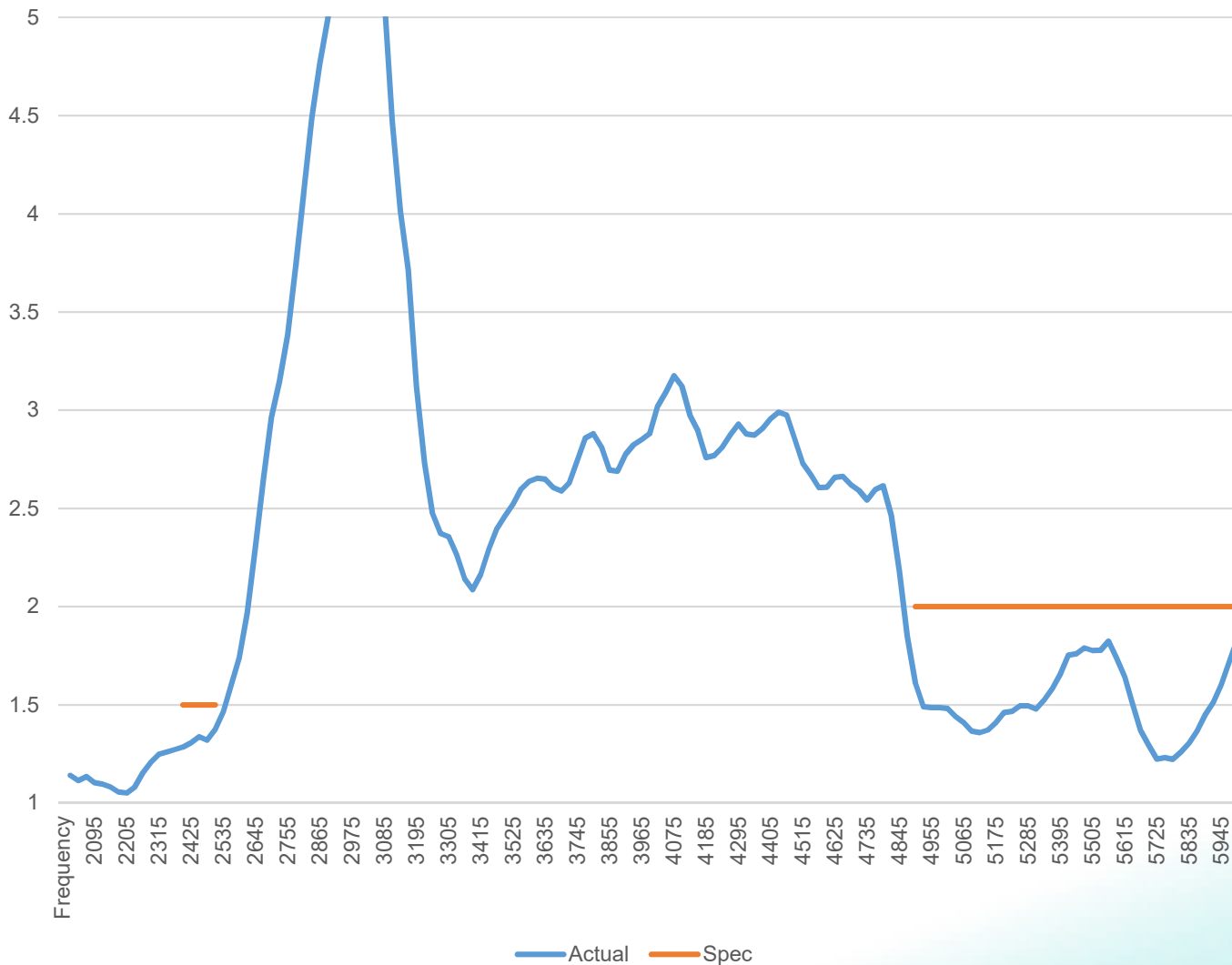
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## CHARTS

### VSWR

#### ICEFINWDMN VSWR



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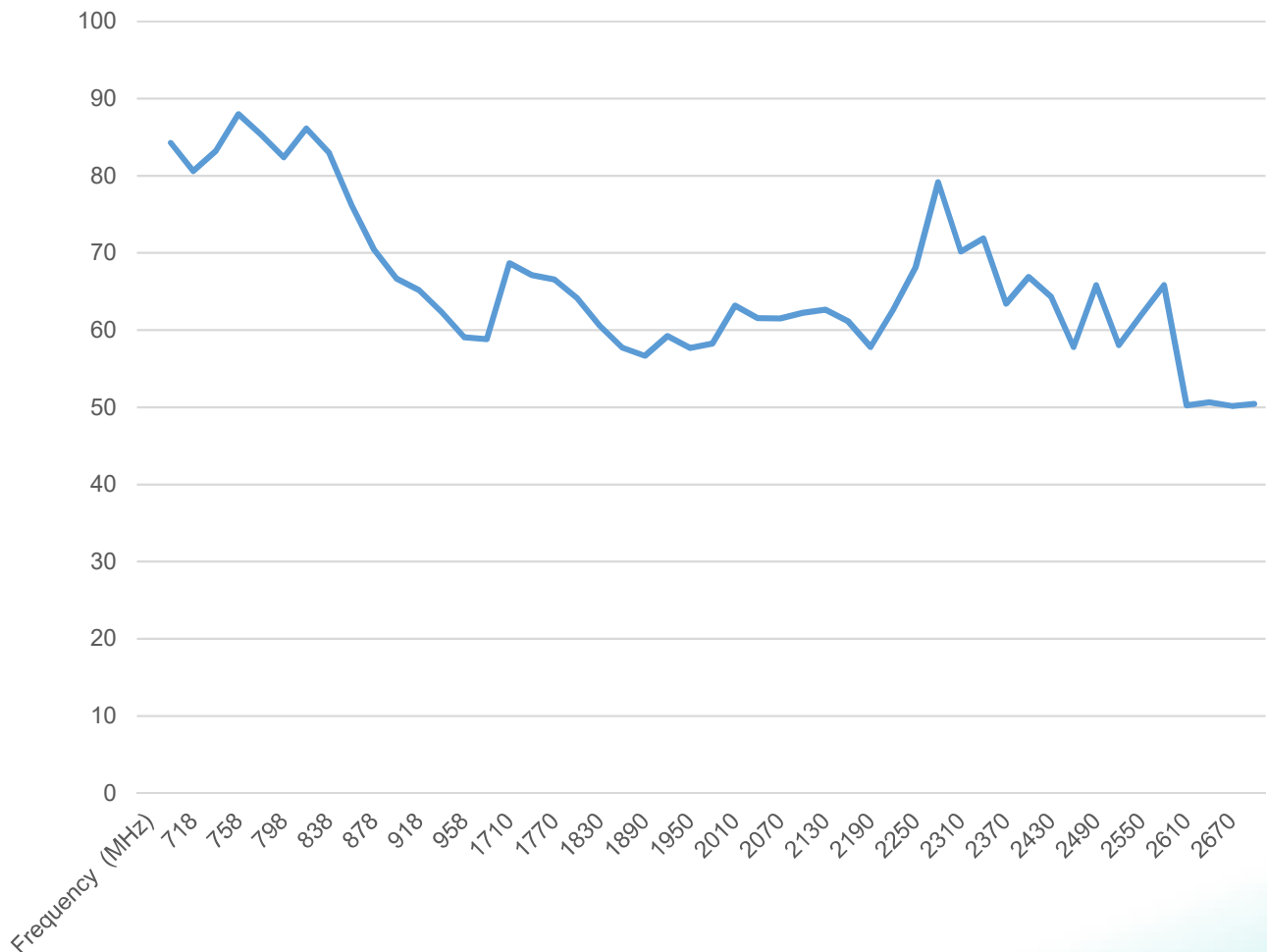
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## CHARTS

Efficiency(%)

ICEFINLNMOHF  
Efficiency (%)



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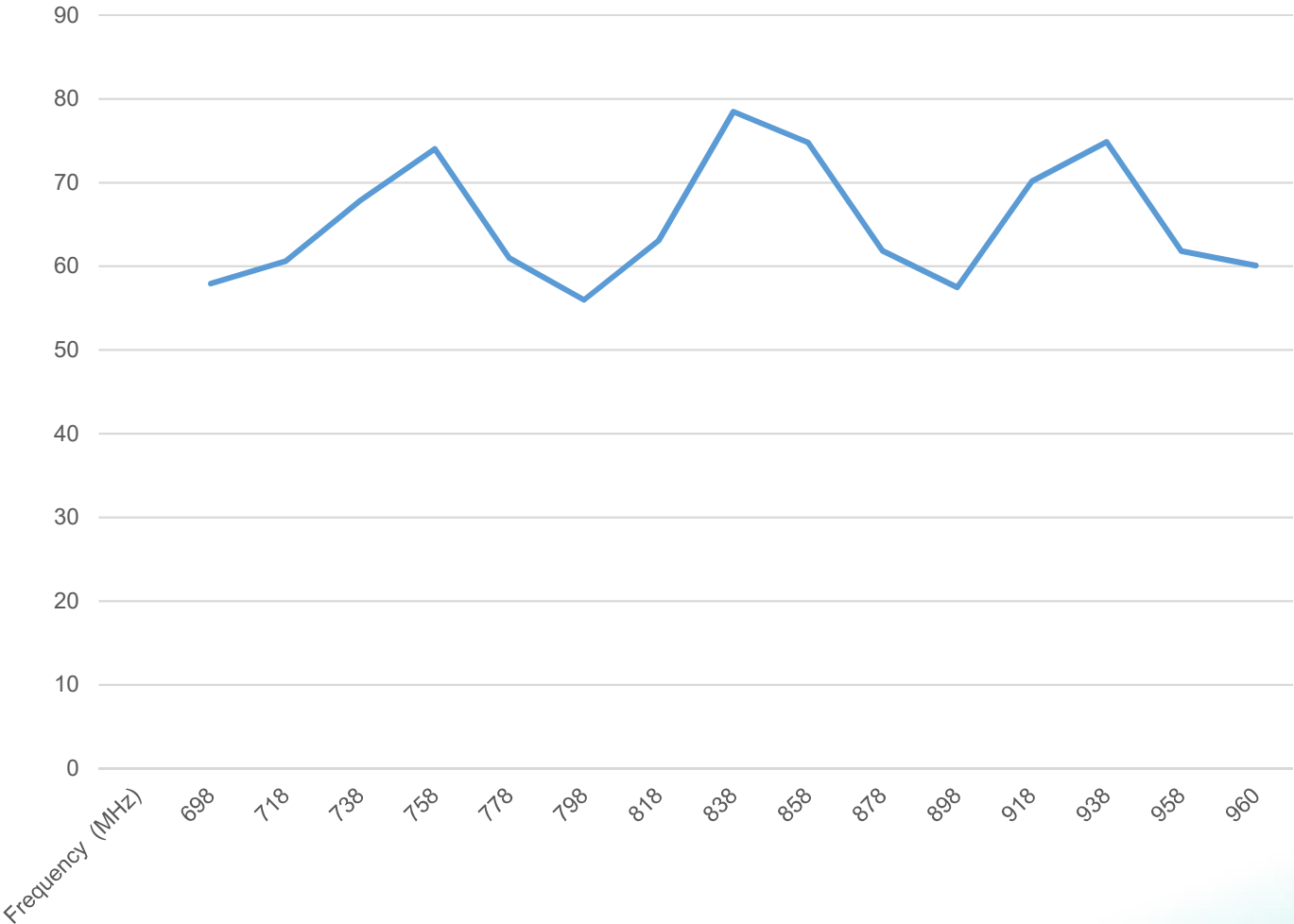
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CHARTS

Efficiency(%)

ICEFIN698/960NMO  
Efficiency (%)



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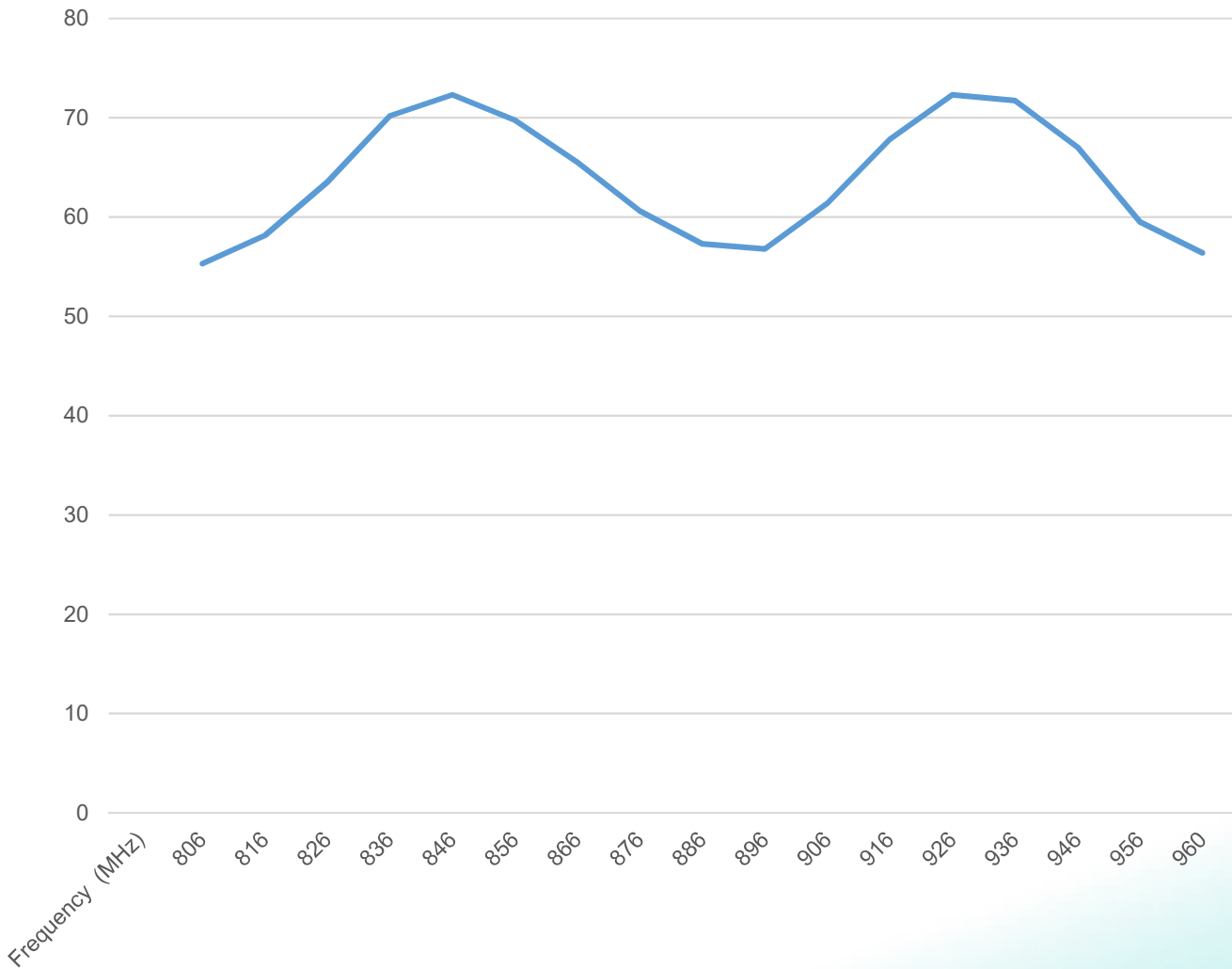
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CHARTS

Efficiency(%)

ICEFIN806NMO  
Efficiency (%)



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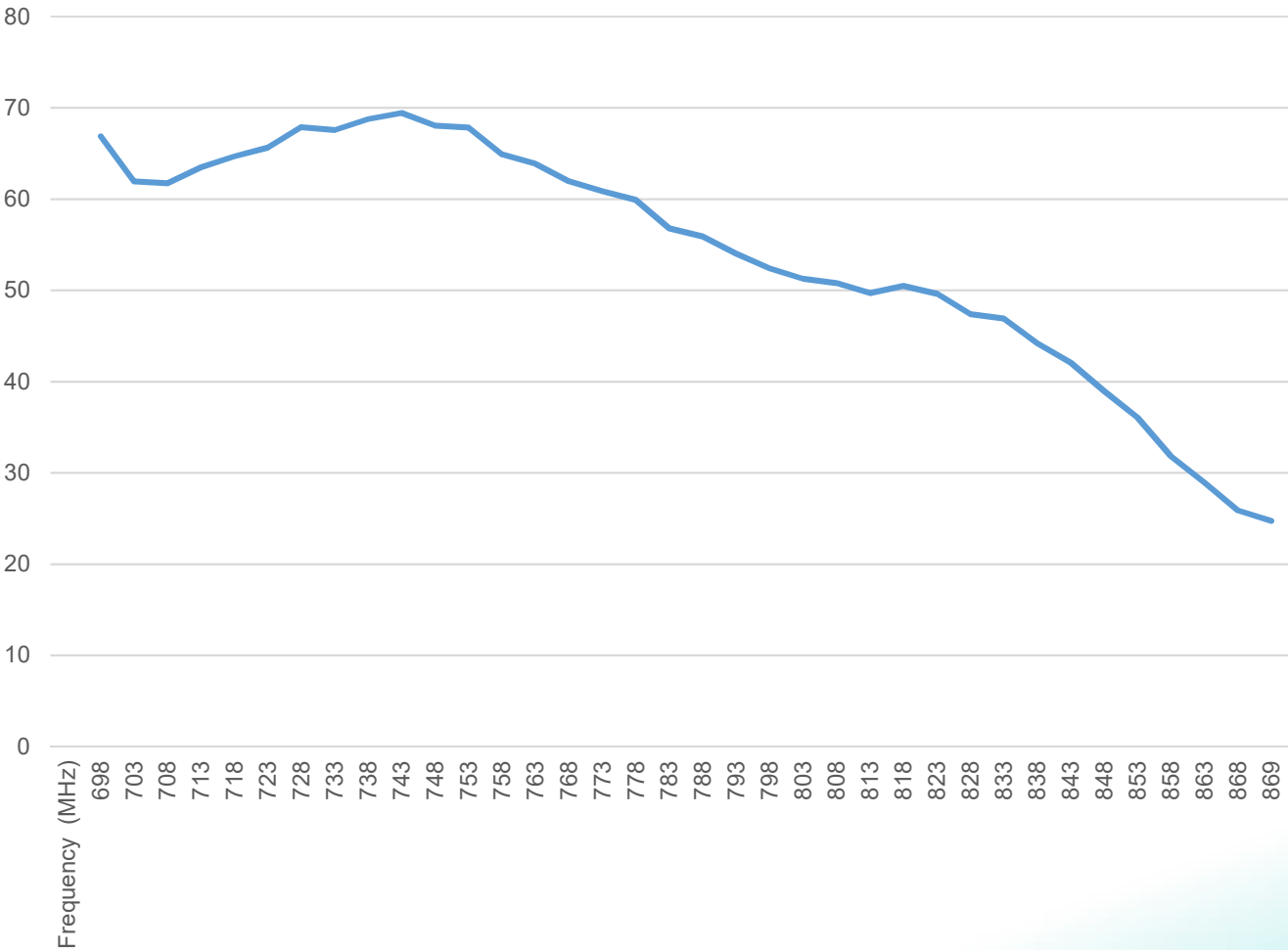
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CHARTS

Efficiency(%)

ICEFIN698/869DMN  
Efficiency (%)



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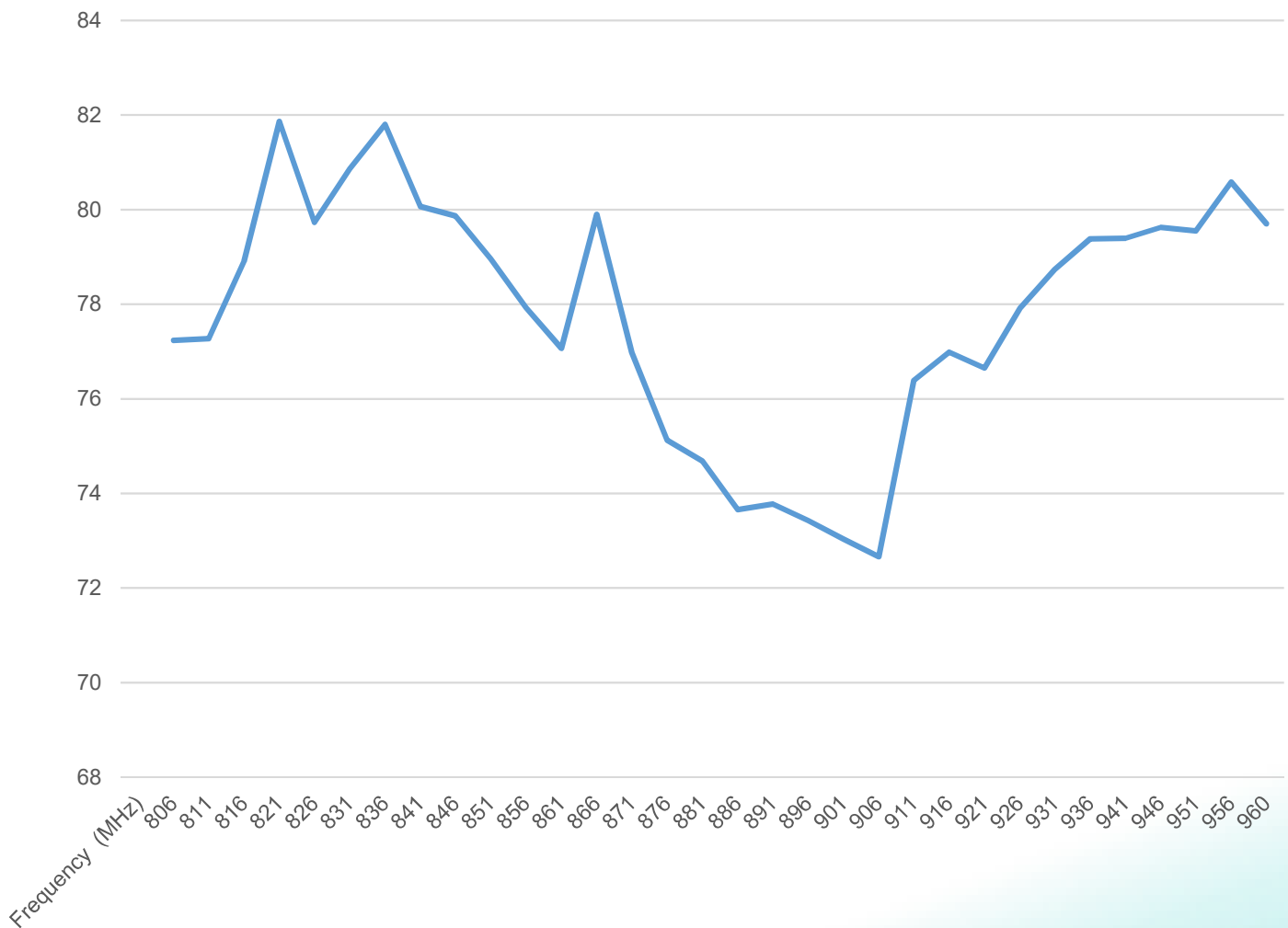
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## CHARTS

Efficiency(%)

ICEFIN806DMN  
Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

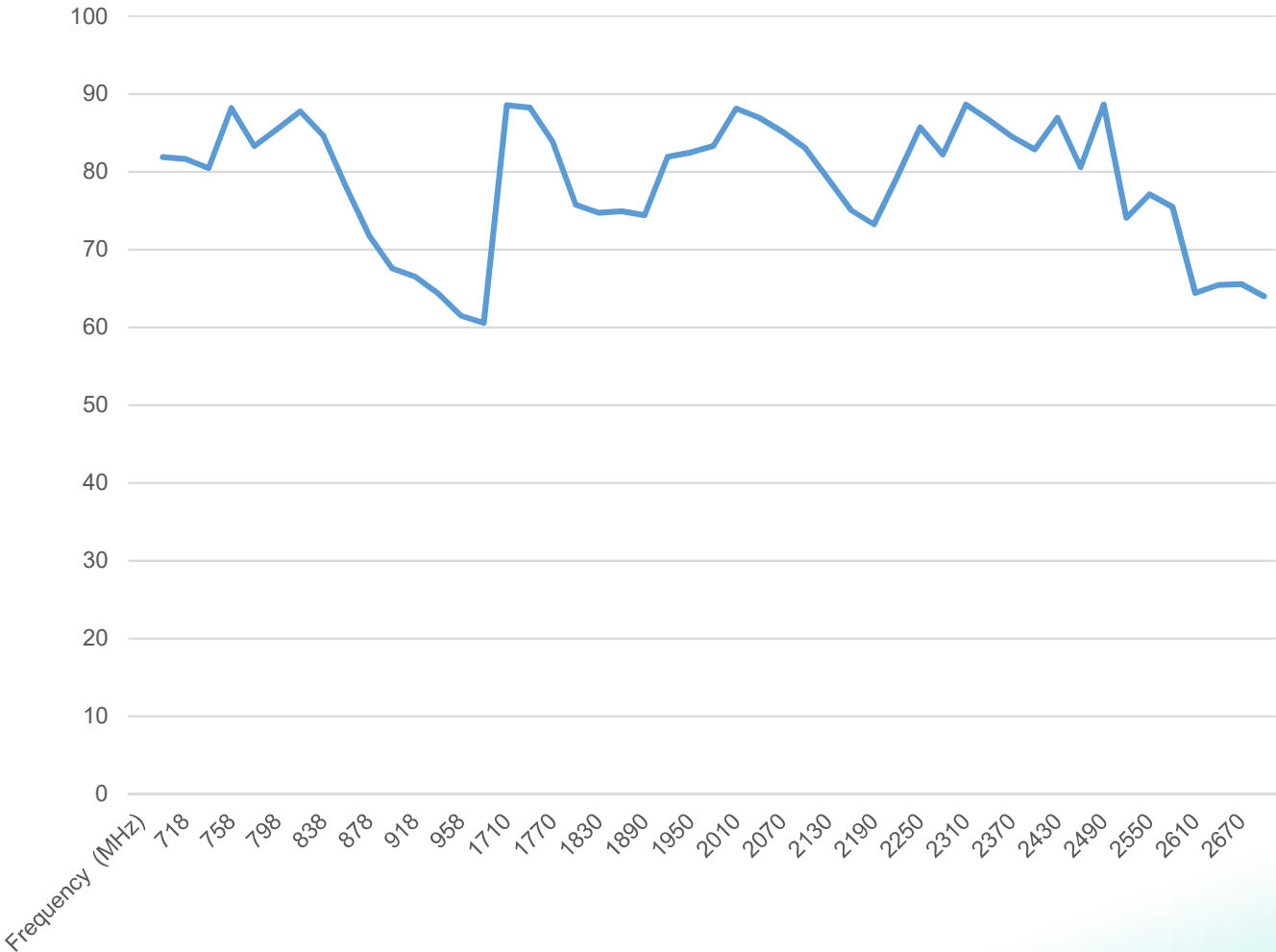
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINLDMN  
Efficiency (%)



Description: LOW PROFILE MULTIBAND ANTENNA

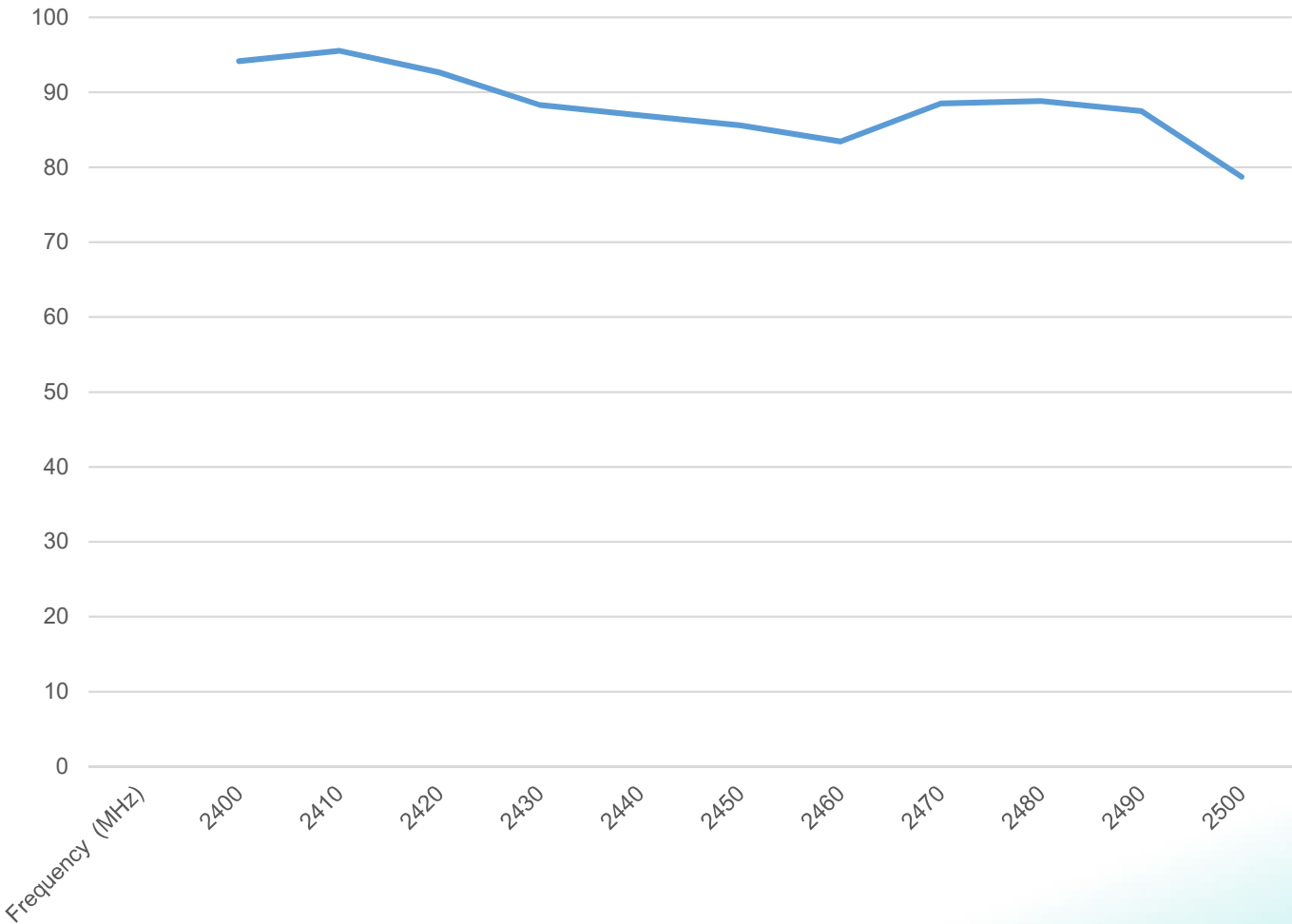
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN24NMOHF  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

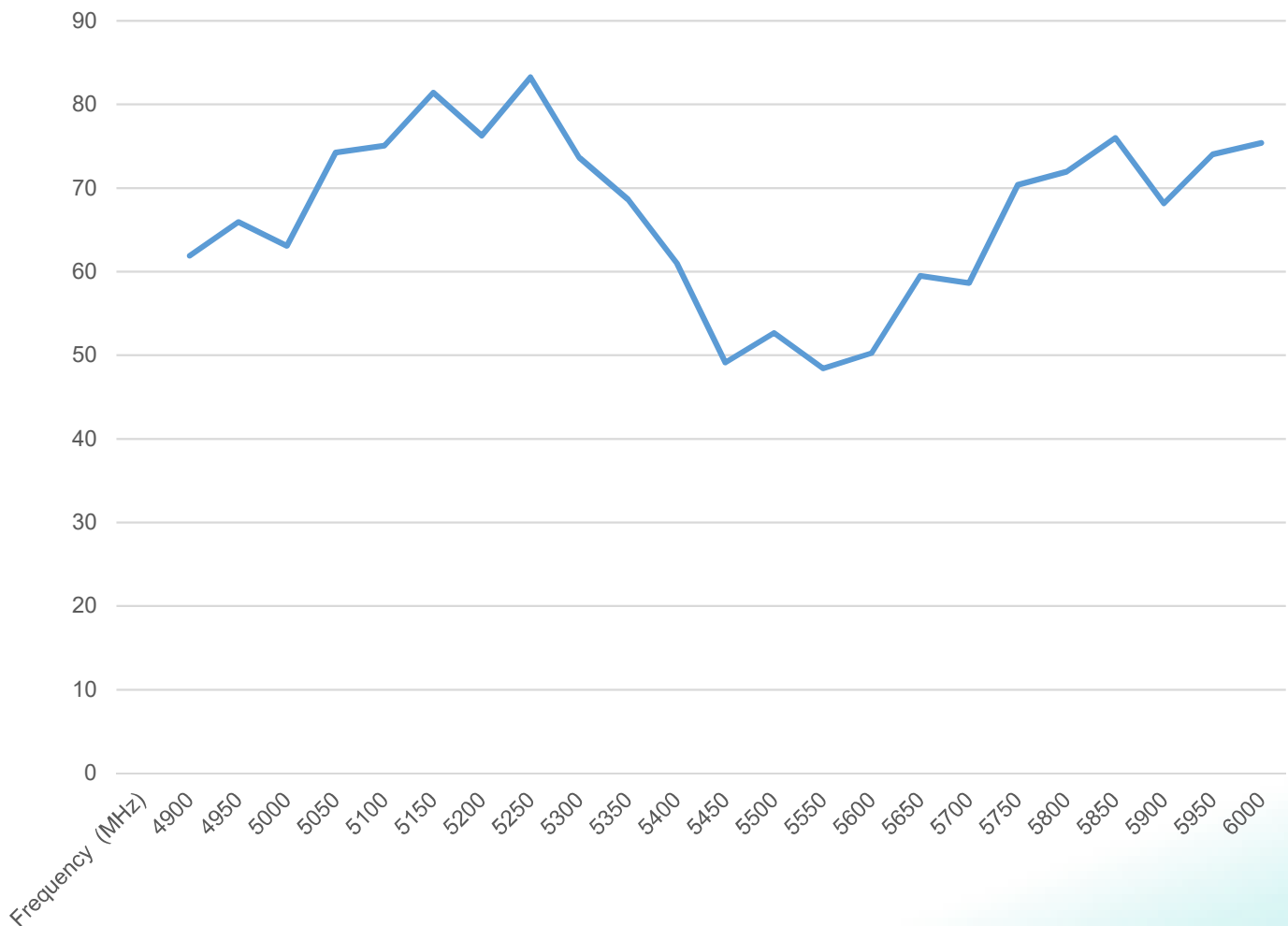
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Efficiency(%)

ICEFIN49NMOHF  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

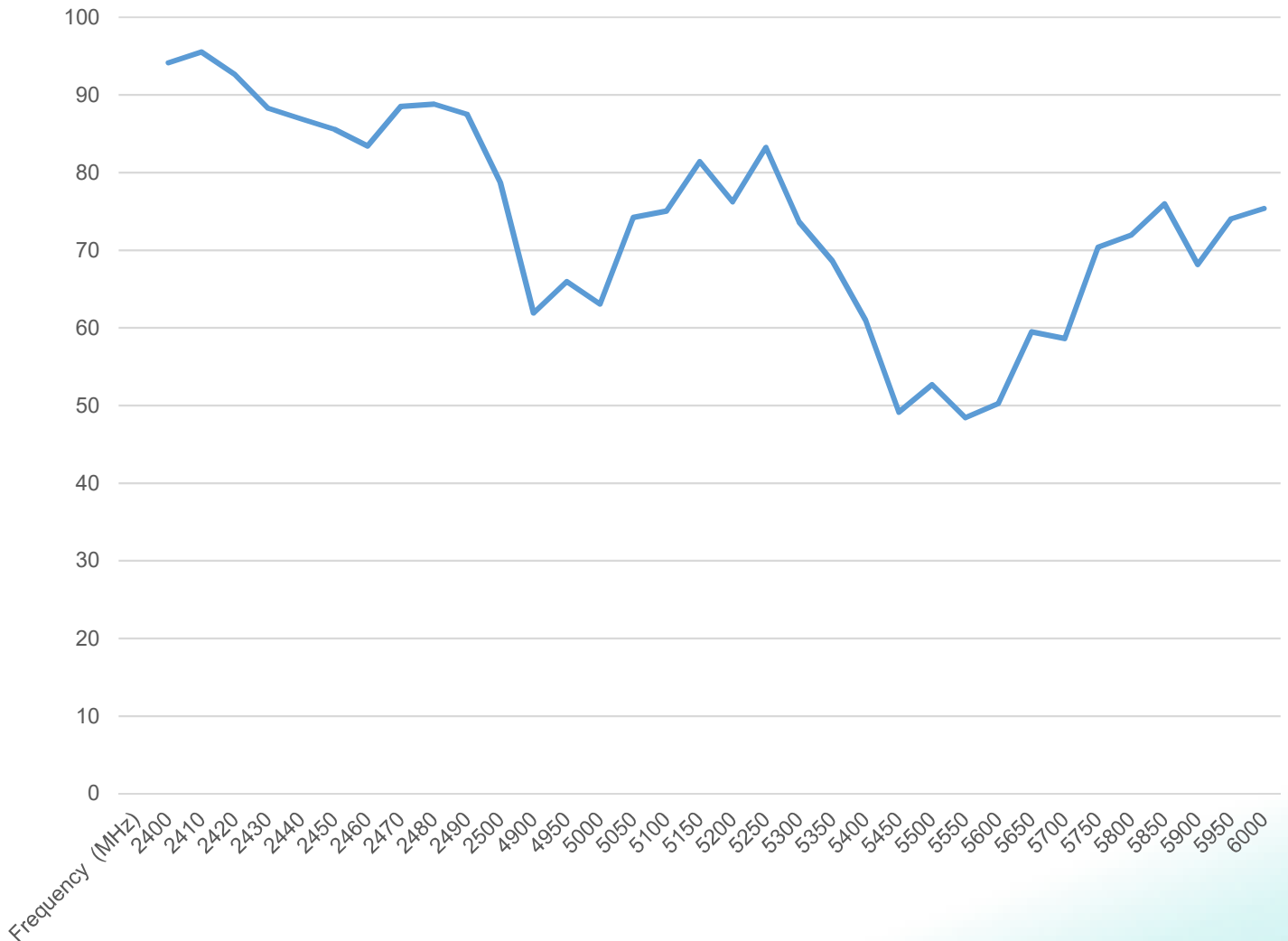
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Efficiency(%)

ICEFINWNMOHF  
Efficiency (%)



Issue: 1743

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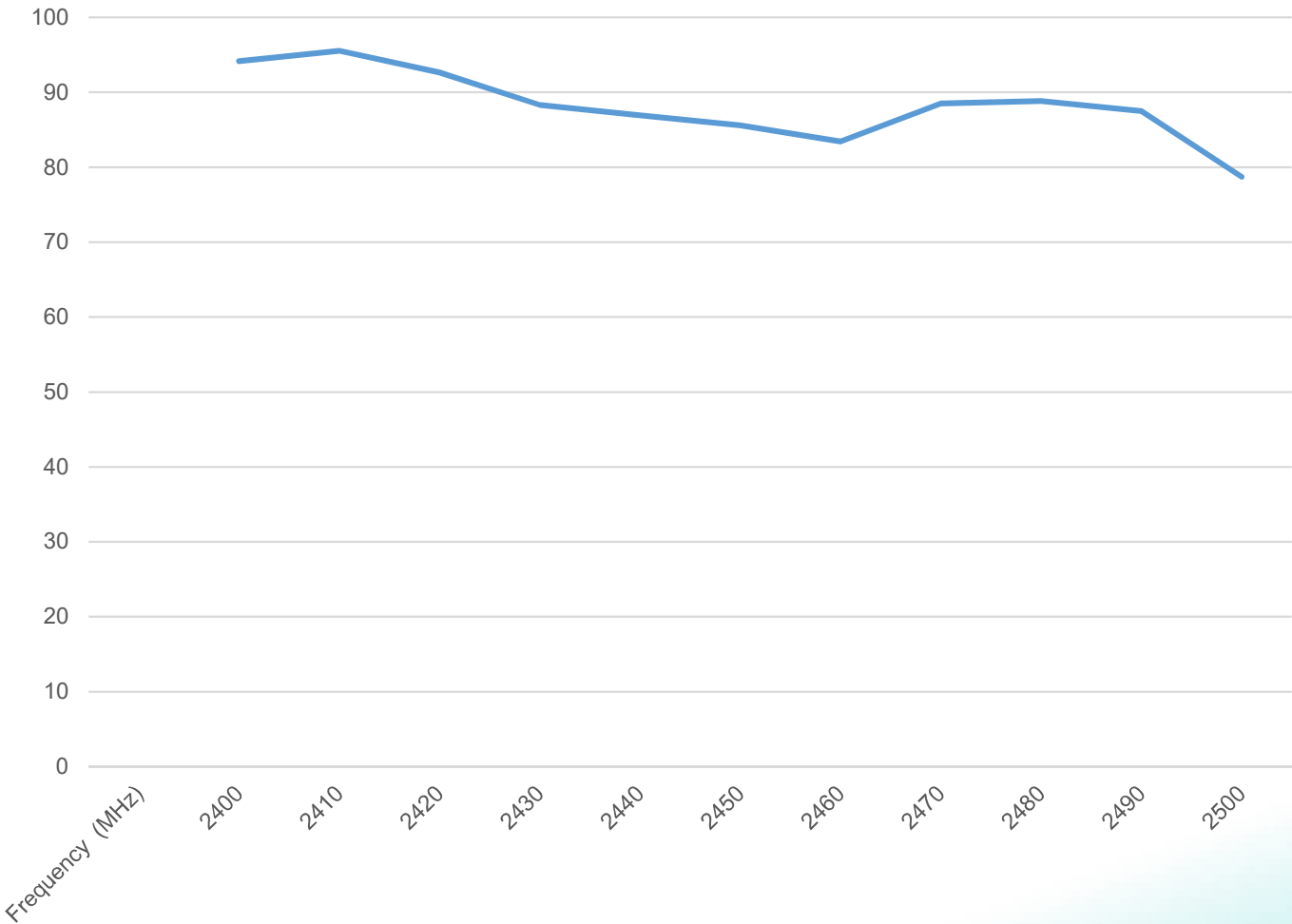
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN24DMN  
Efficiency (%)



Issue: 1743

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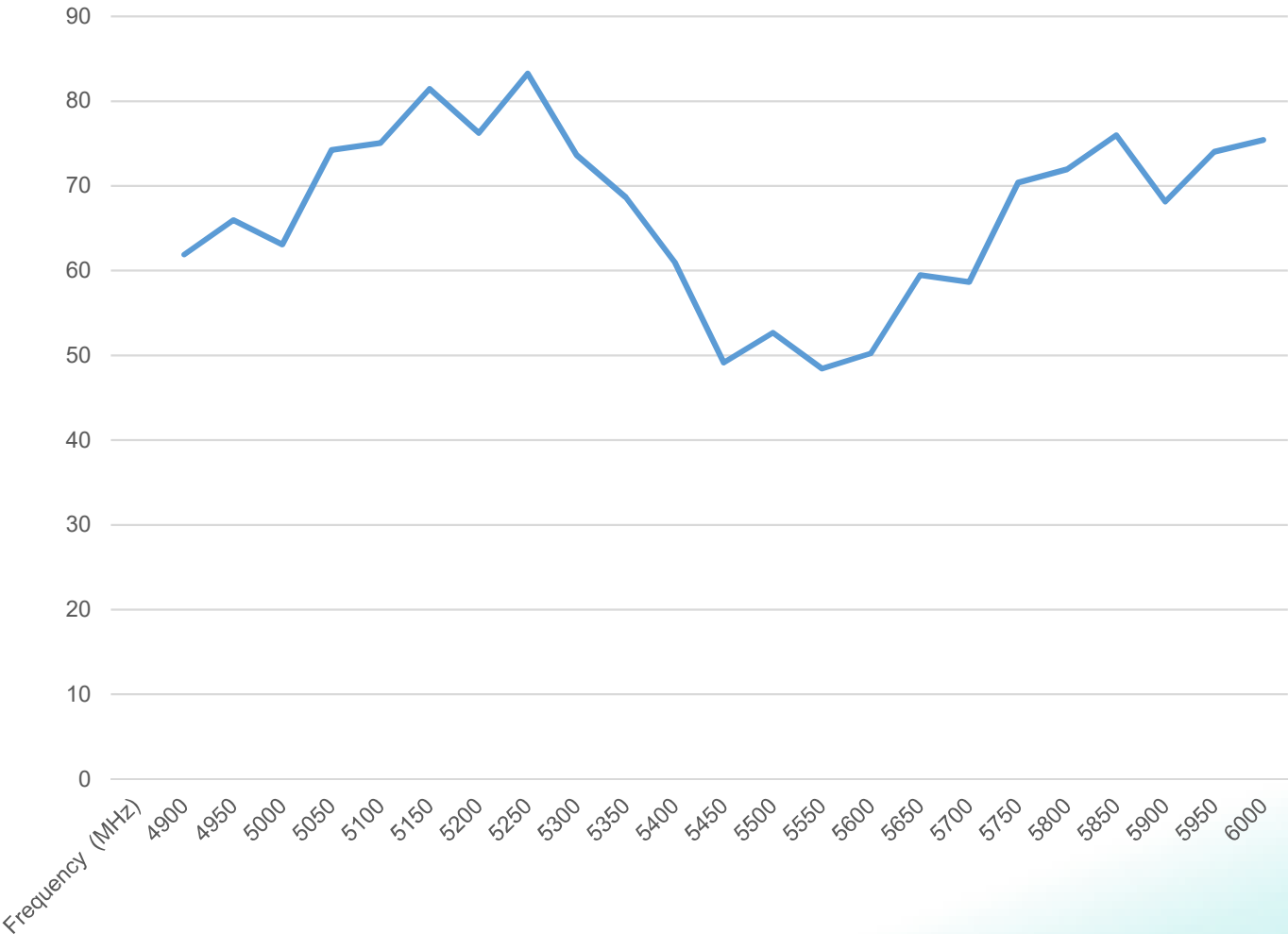
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN49DMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

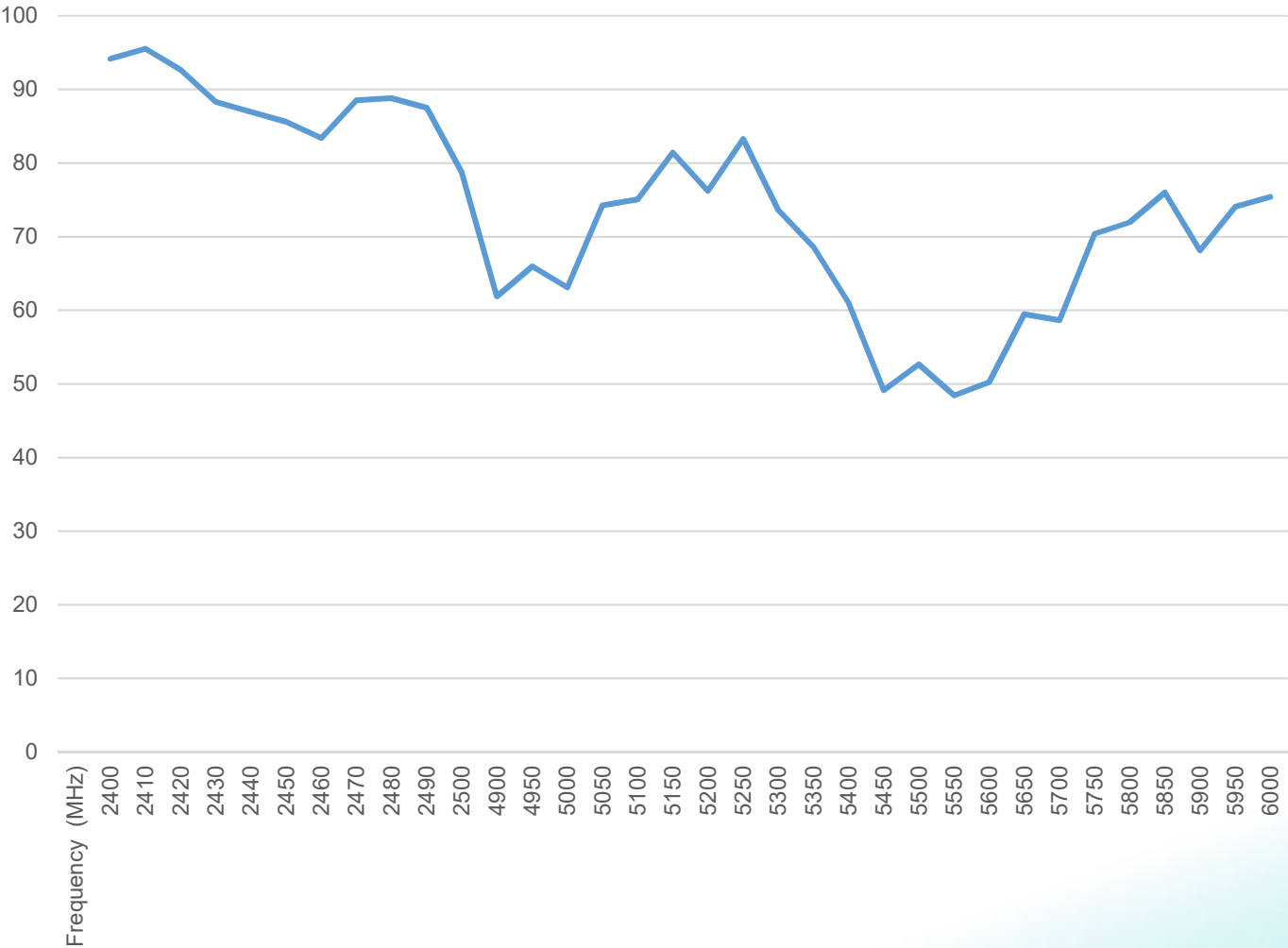
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINWDMN  
Efficiency (%)



Issue: 1743

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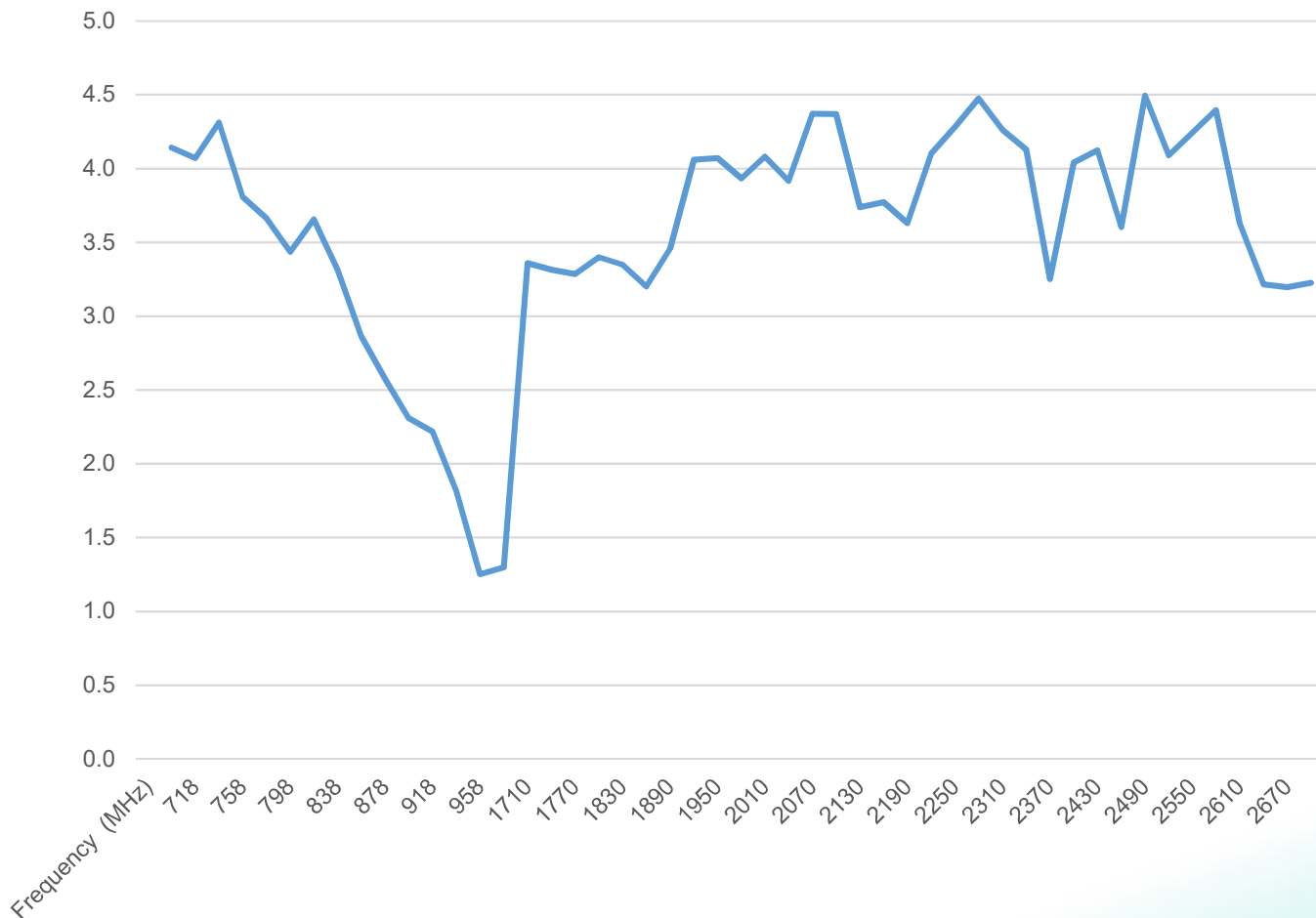
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFINLNMOHF  
Peak Gain(dBi)



Issue: 1743

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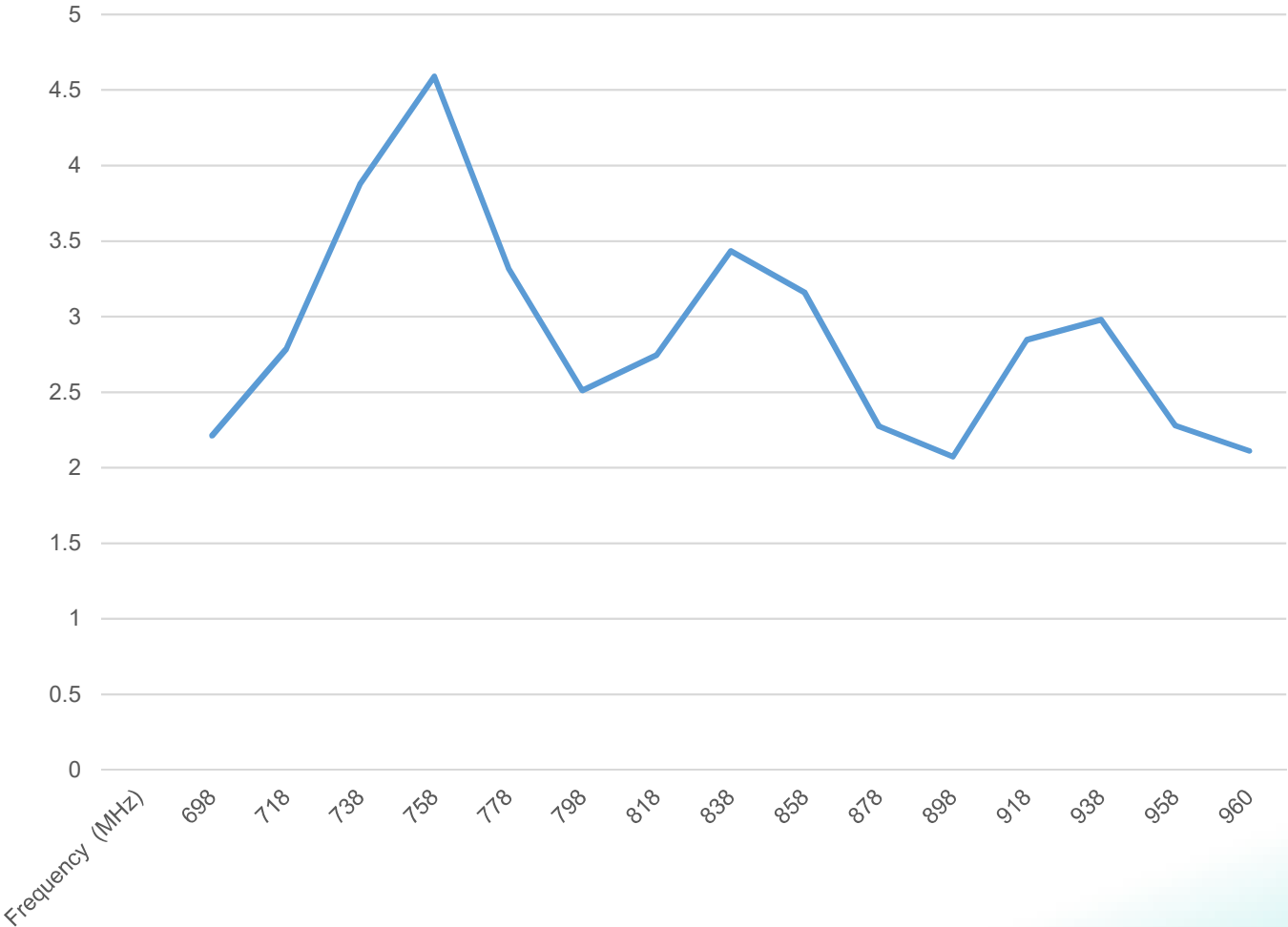
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN698/960NMO  
Peak Gain(dBi)



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ANTENNA

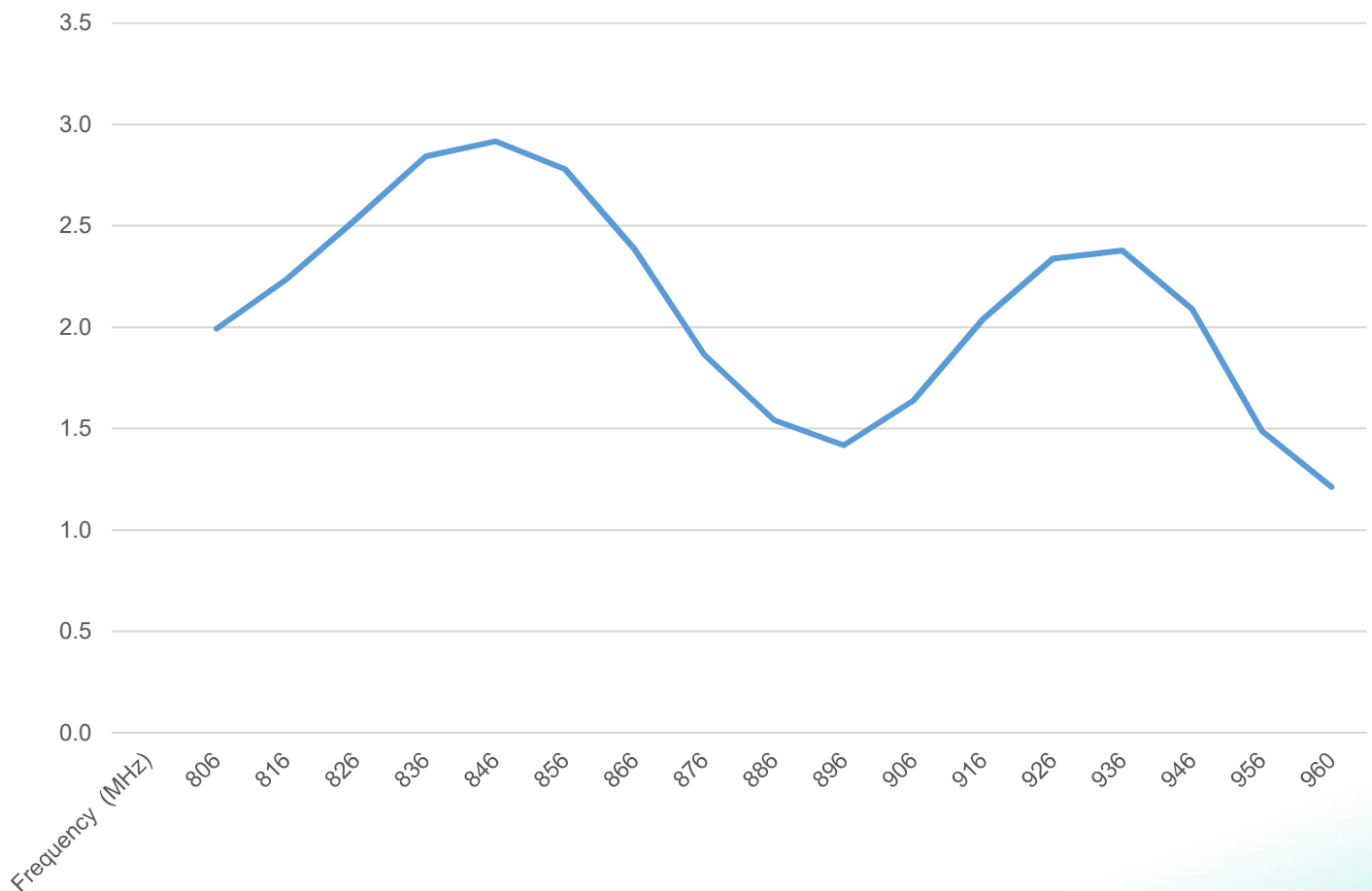
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Peak Gain (dBi)

ICEFIN806NMO  
Peak Gain(dBi)



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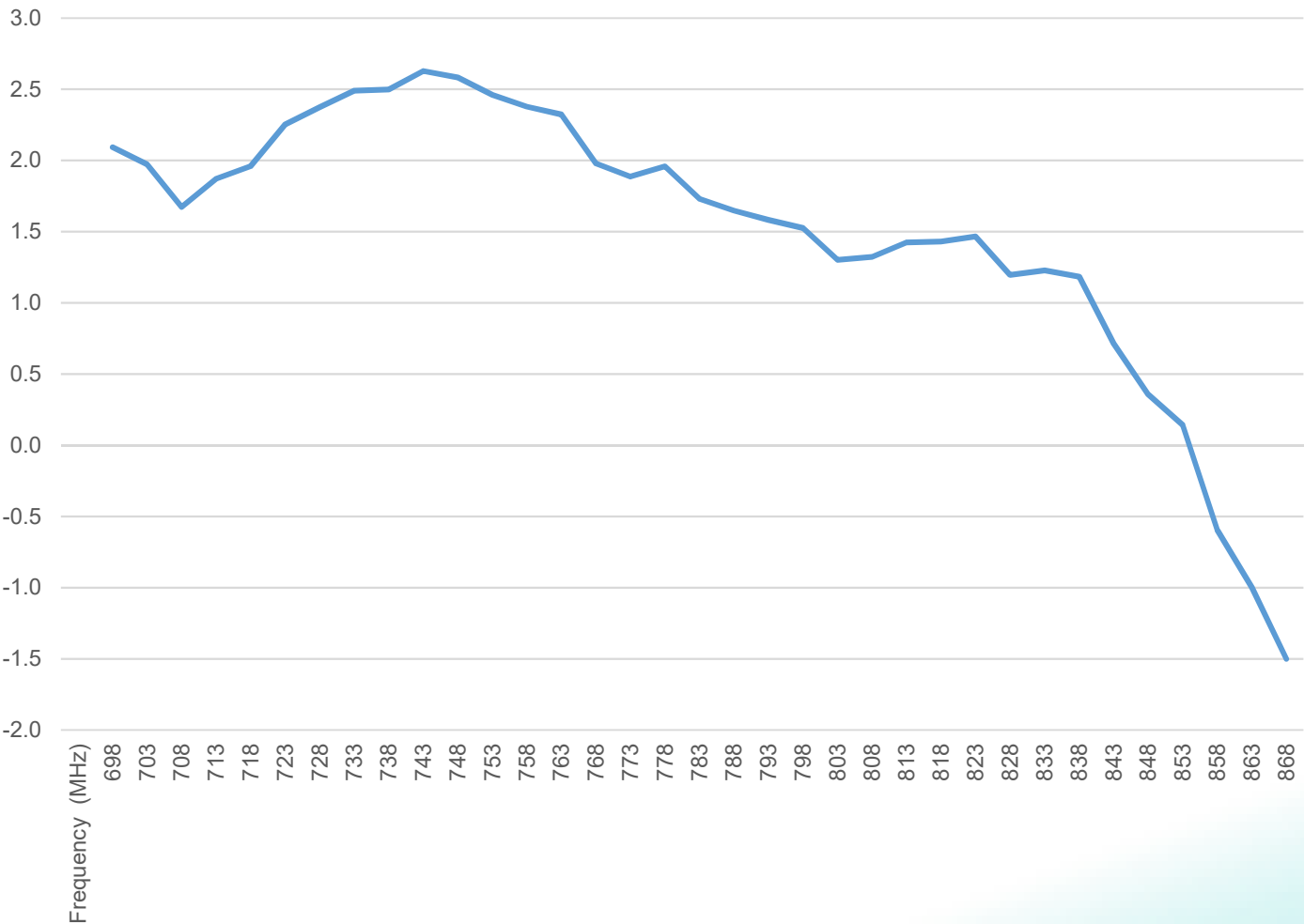
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN698/869DMN  
Peak Gain(dBi)



Description: LOW PROFILE MULTIBAND ANTENNA

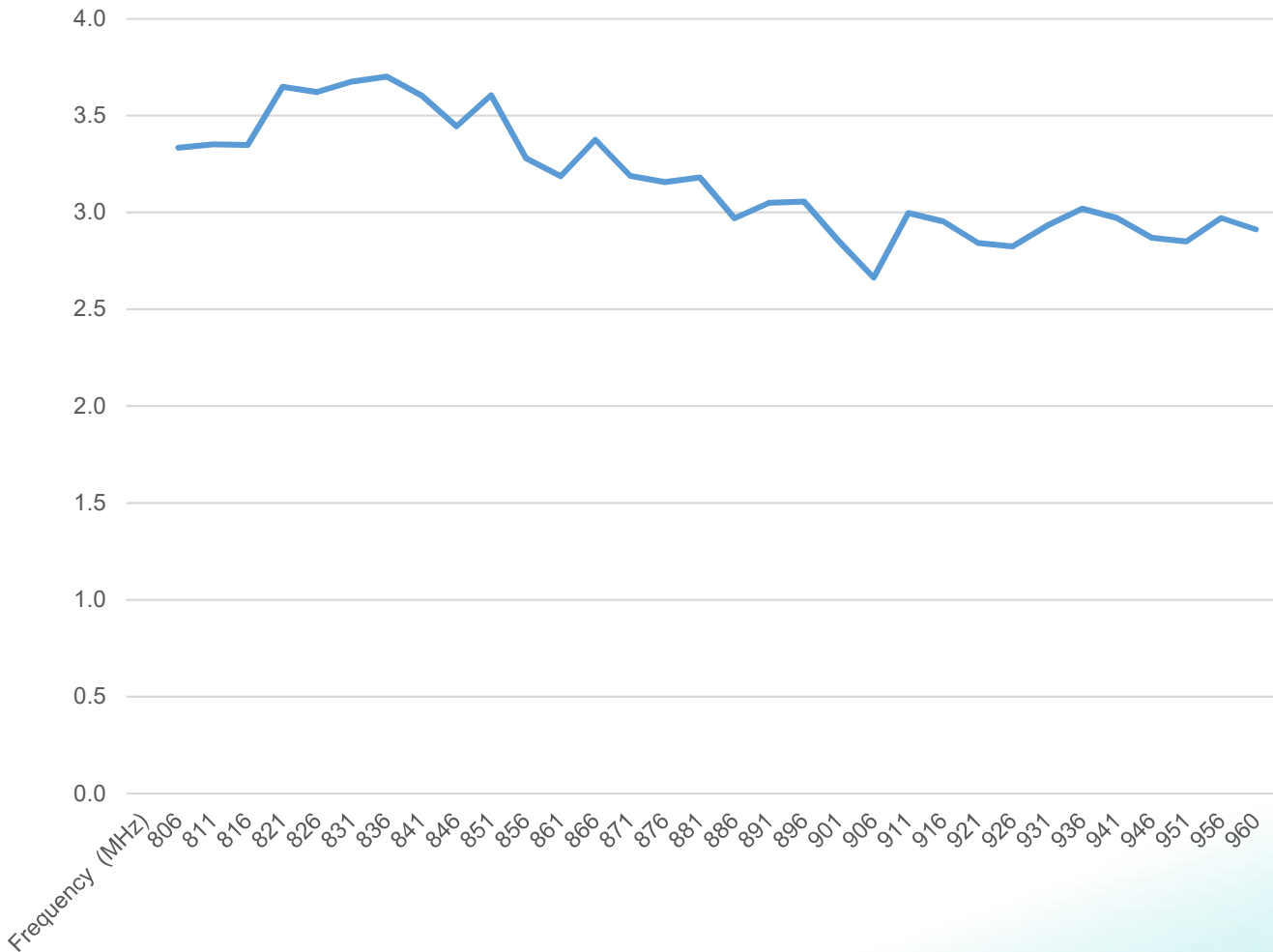
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN806DMN  
Peak Gain(dBi)



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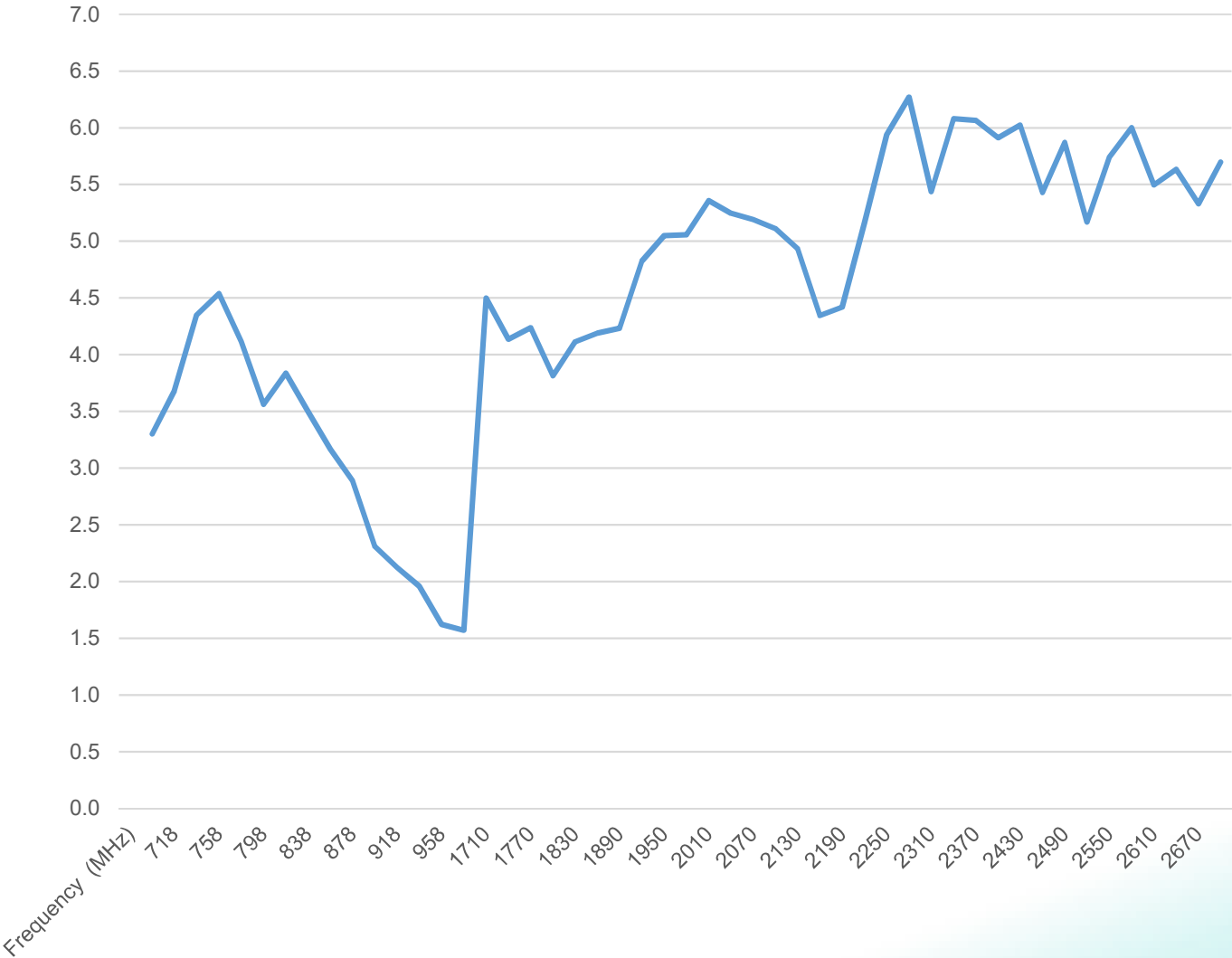
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINLDMN  
Peak Gain(dBi)



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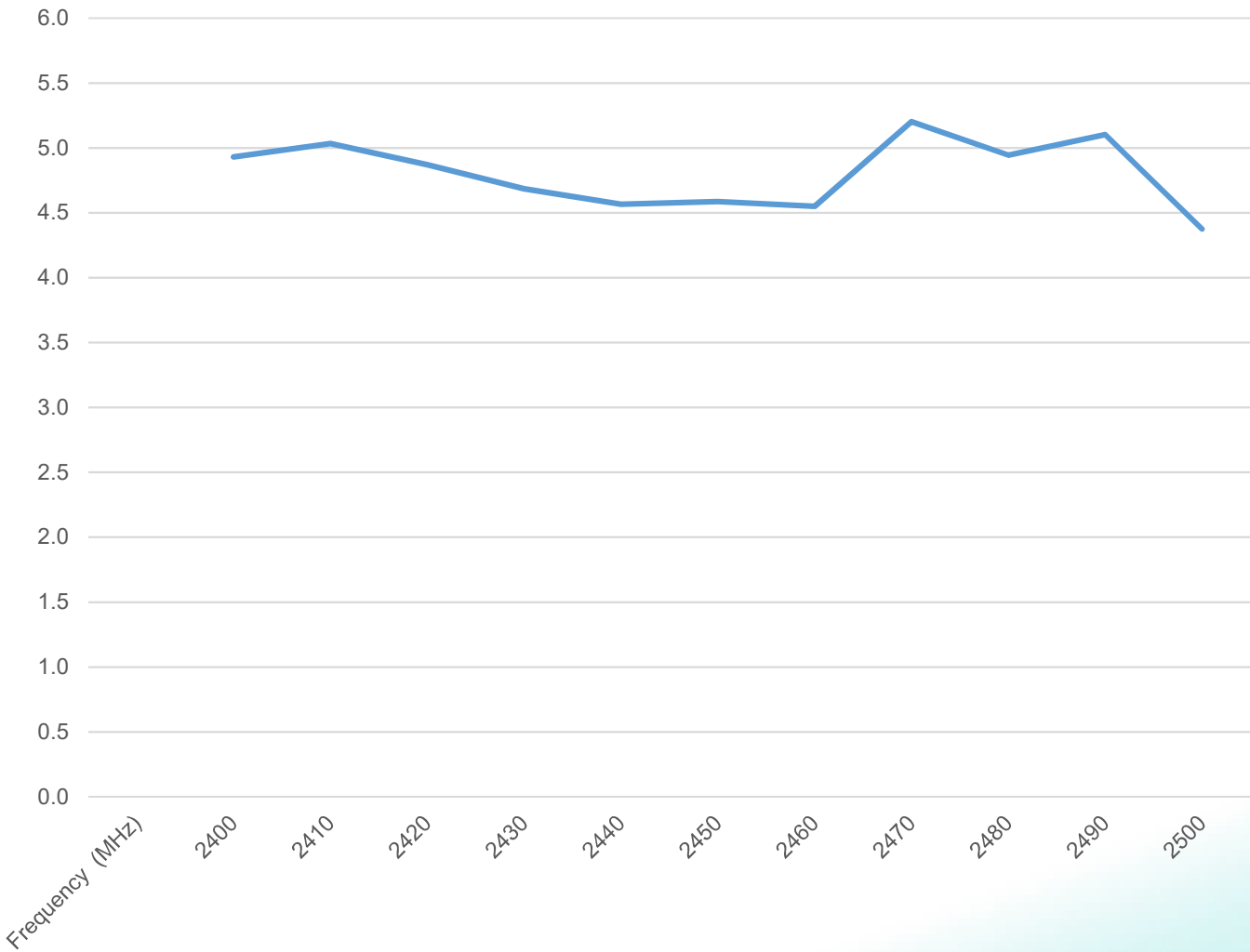
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN24NMOHF  
Peak Gain(dBi)



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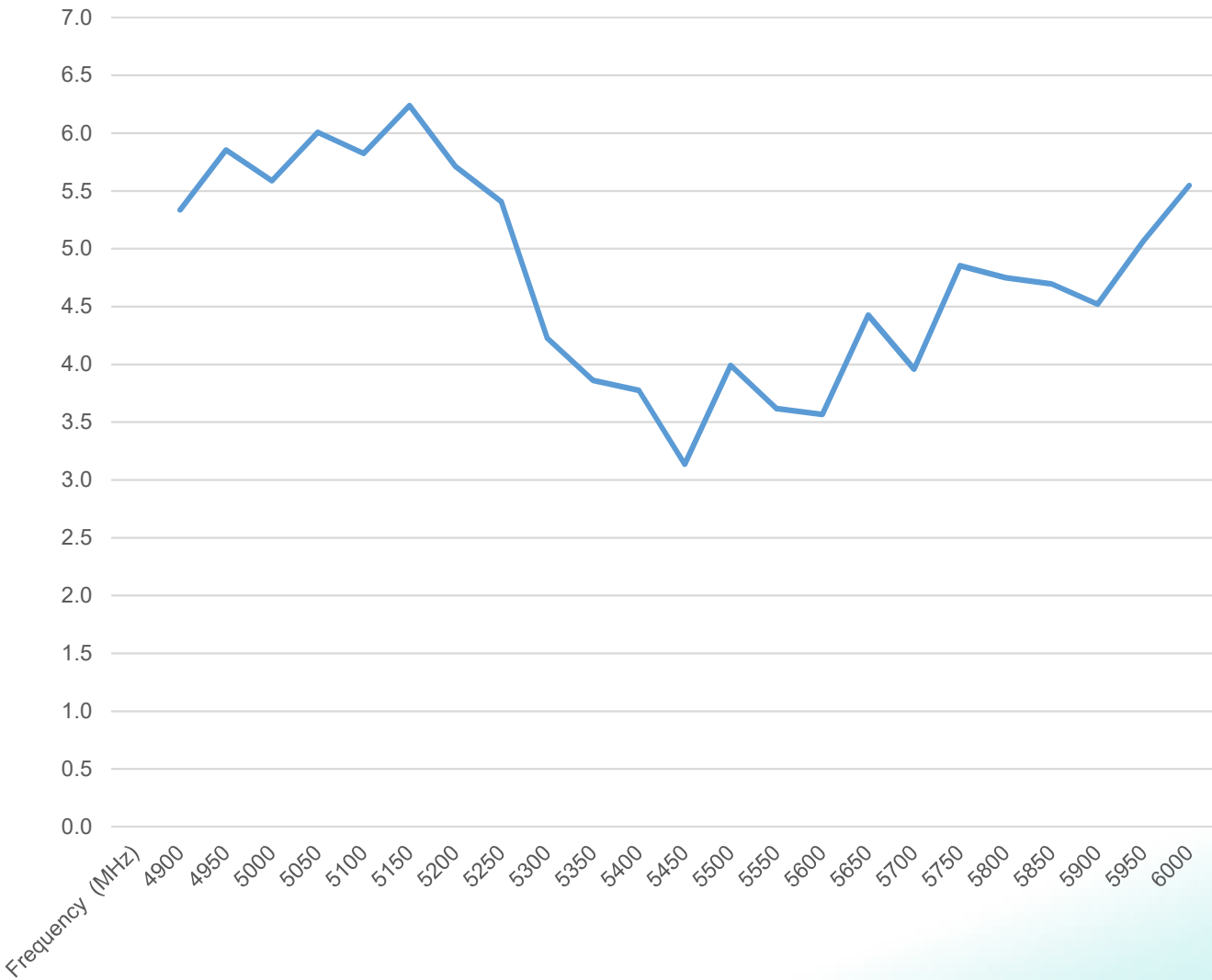
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN49NMOHF  
Peak Gain(dBi)



Description: LOW PROFILE MULTIBAND ANTENNA

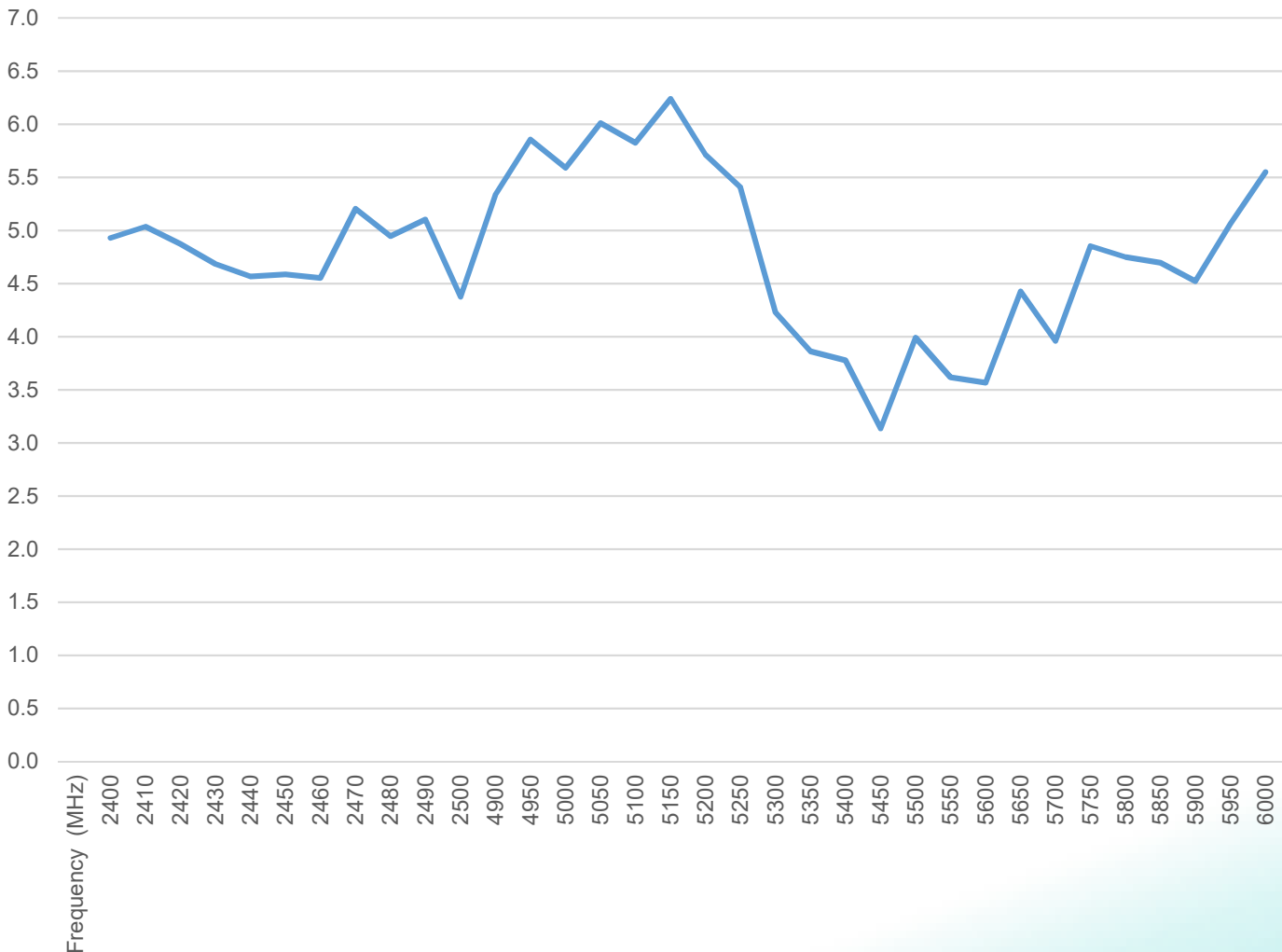
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWNMOHF  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

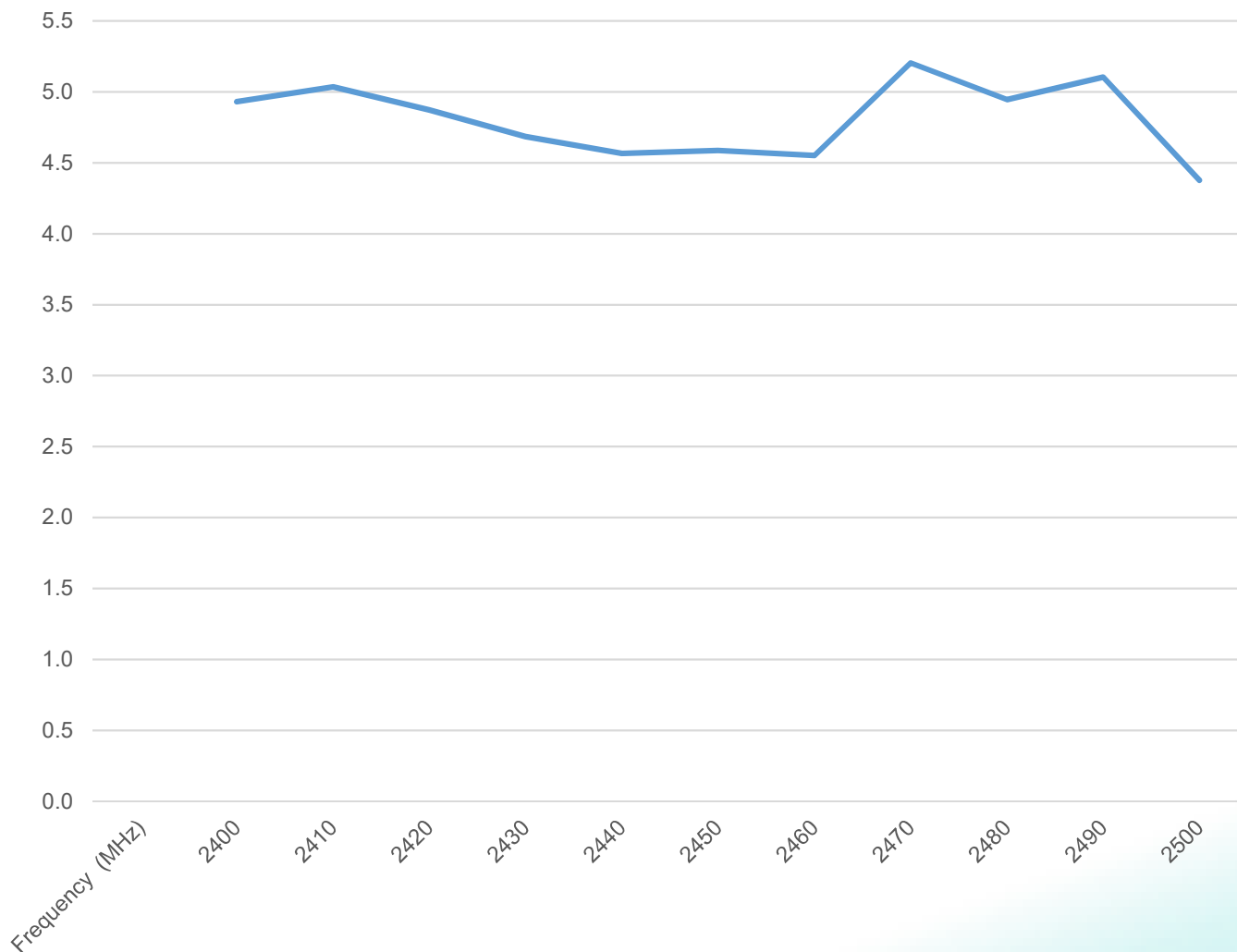
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFIN24DMN  
Peak Gain(dBi)



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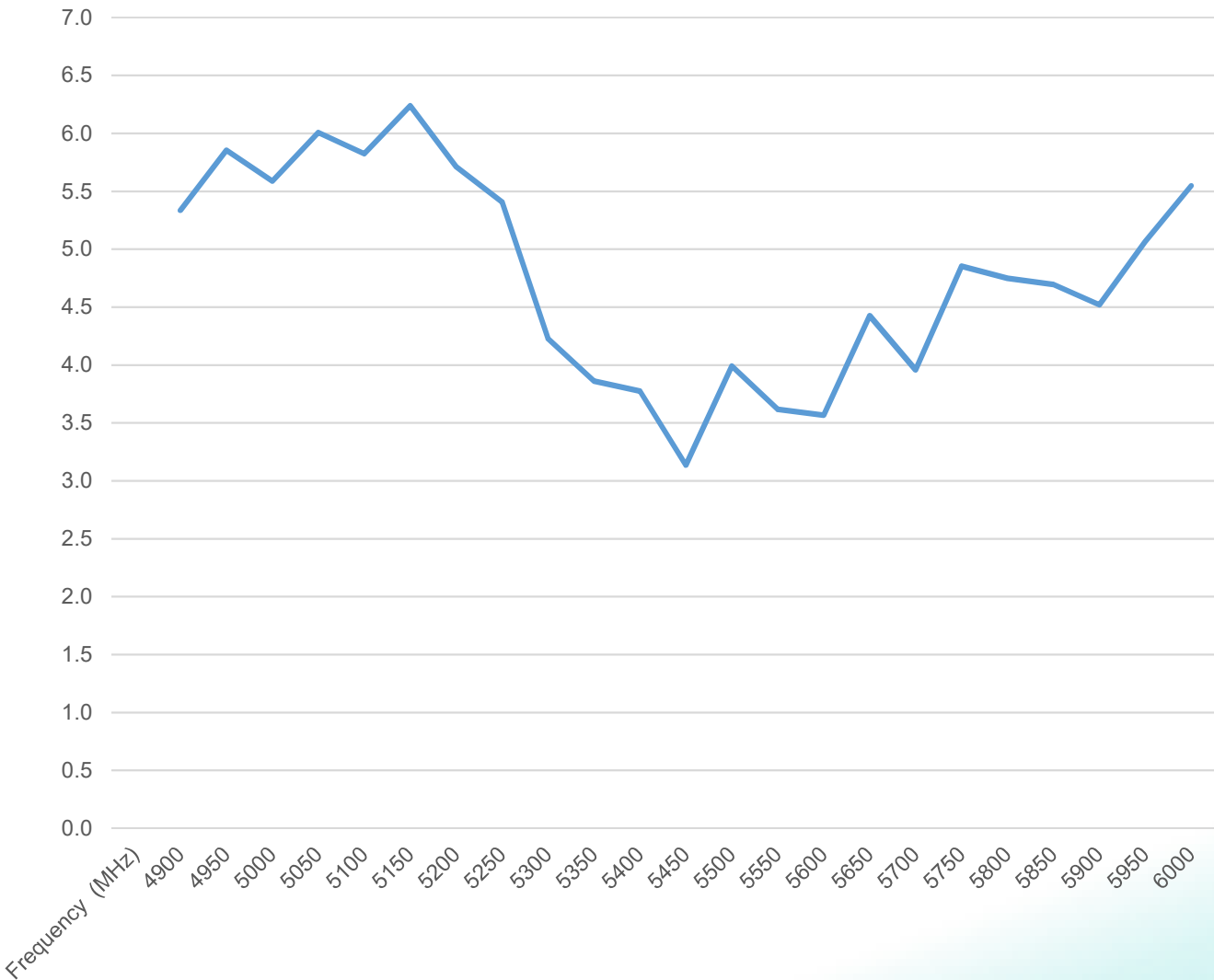
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN49DMN  
Peak Gain(dBi)



Issue: 1743

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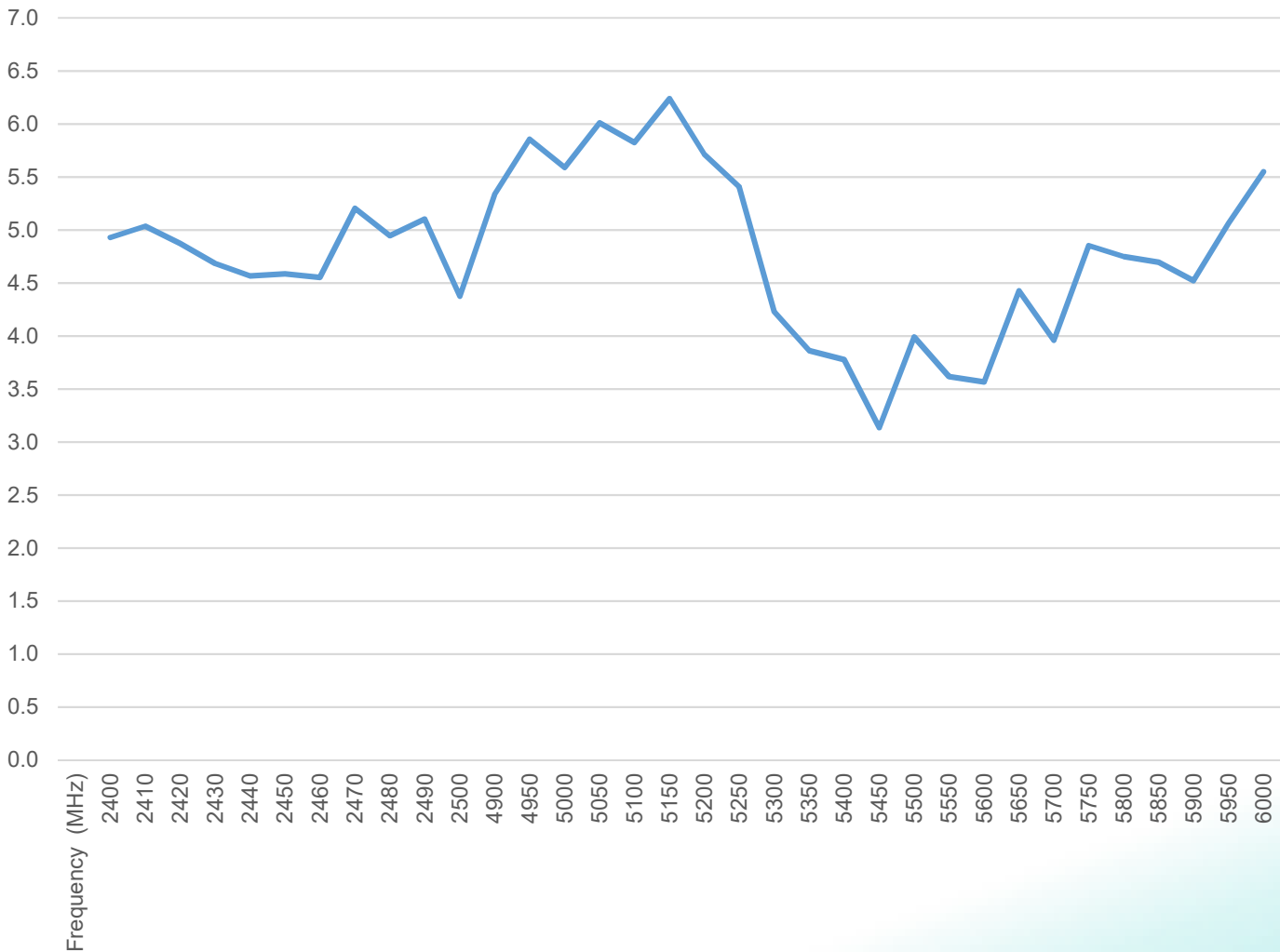
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWDMN  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

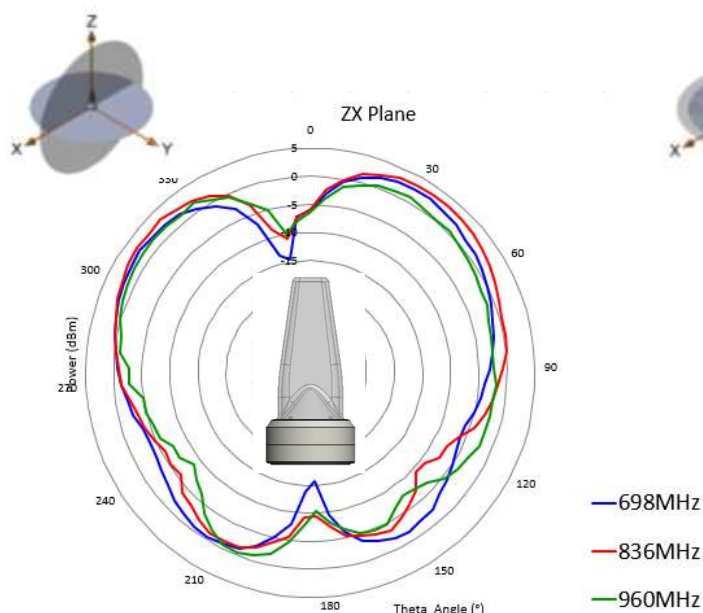
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## CHARTS

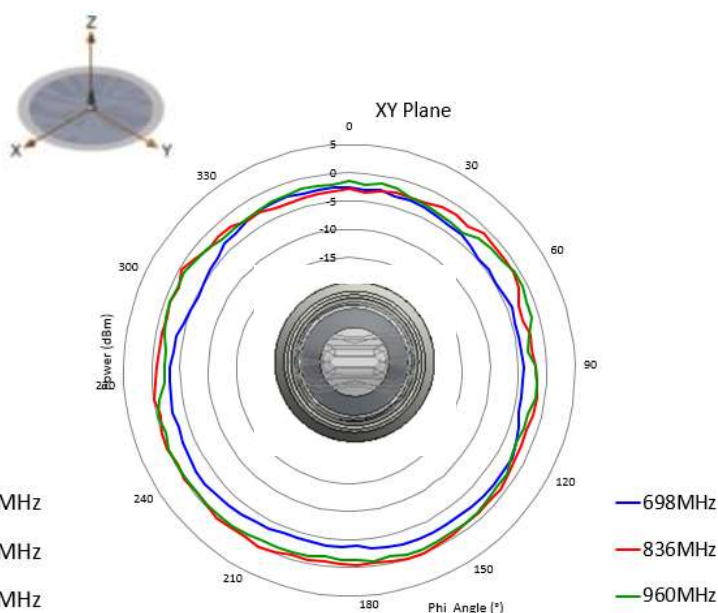
### Free Space Radiation Pattern

ICEFINLNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

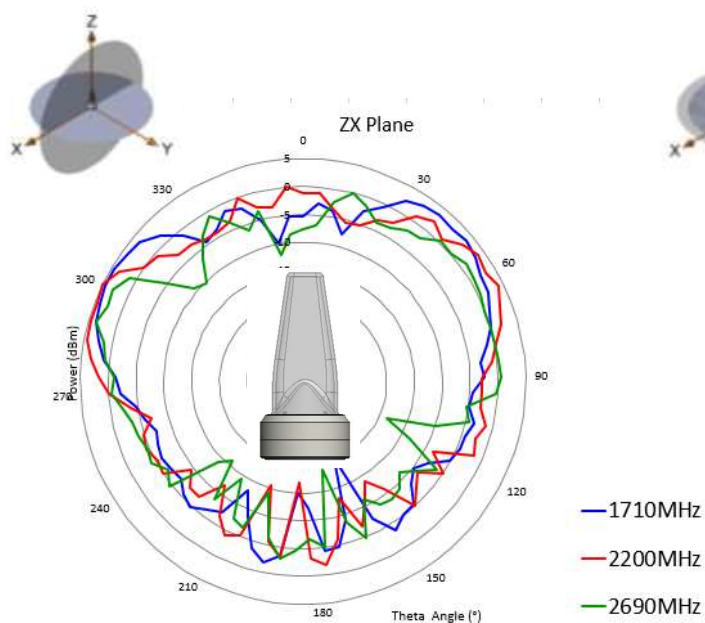
PART NUMBER: ICEFINXXX

## CHARTS

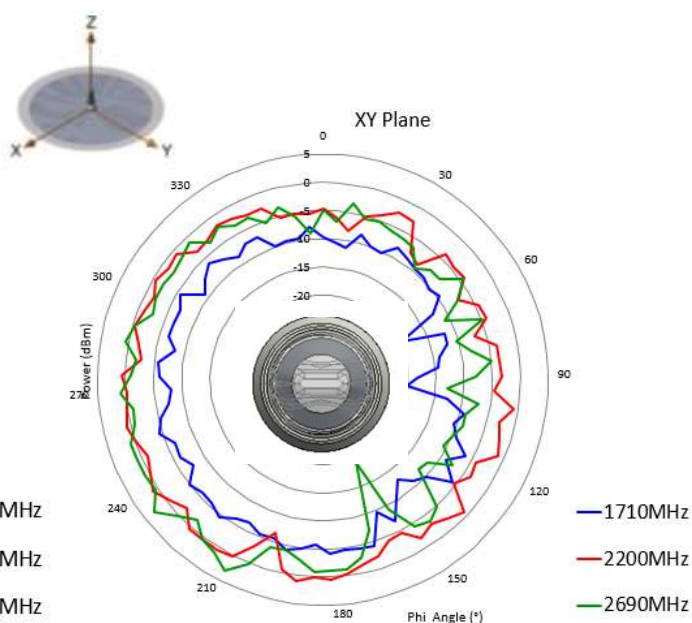
### Free Space Radiation Pattern

ICEFINLNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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ANTENNA

Series: IceFin

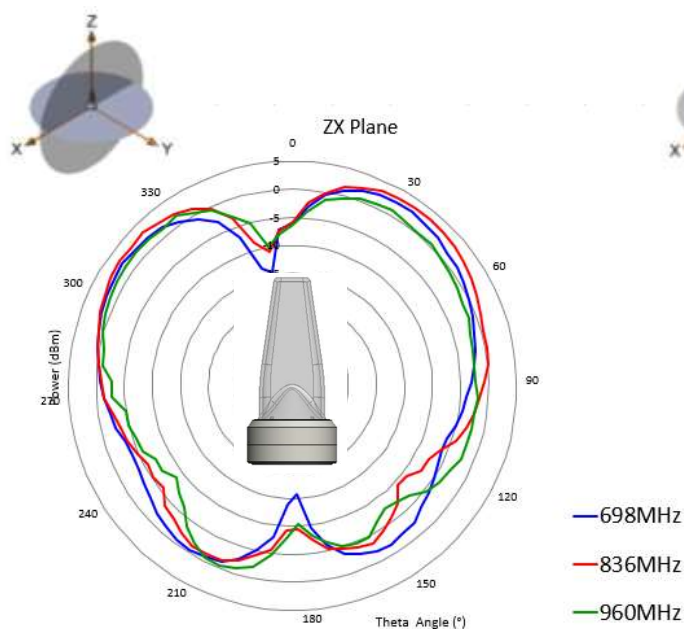
PART NUMBER: ICEFINXXX

## CHARTS

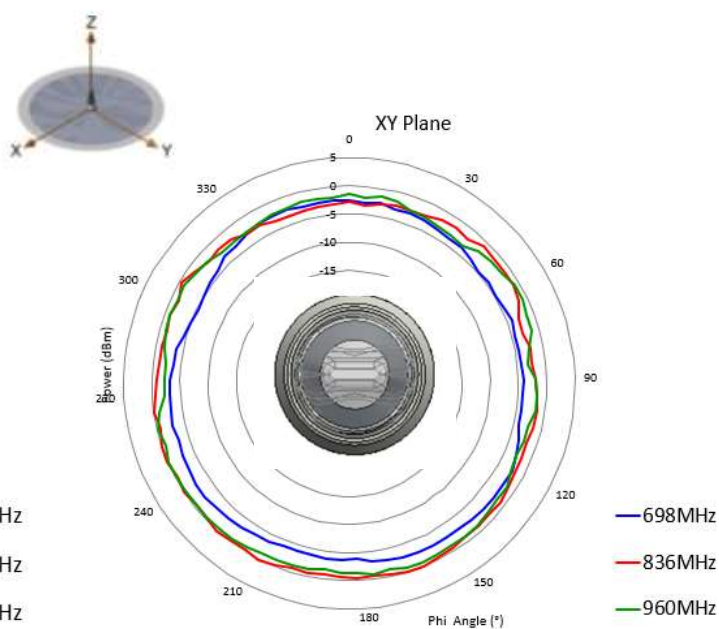
### Free Space Radiation Pattern

ICEFIN698/960NMO

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

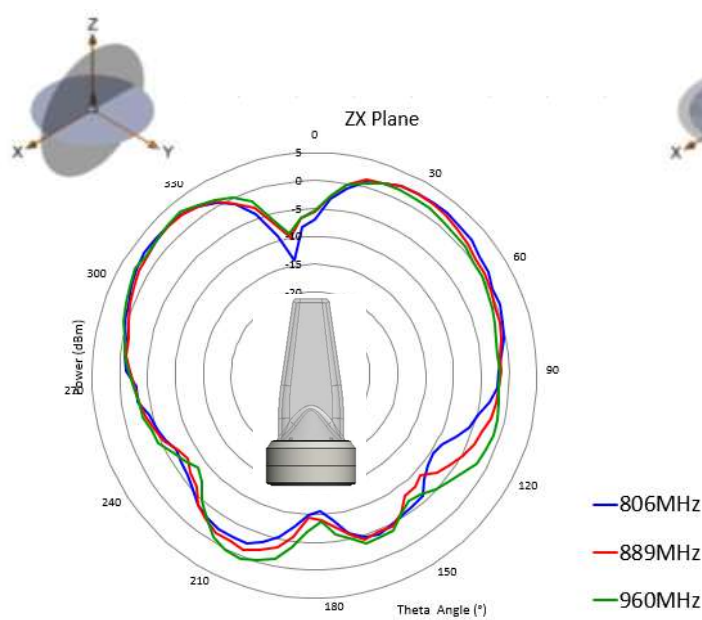
PART NUMBER: ICEFINXXX

## CHARTS

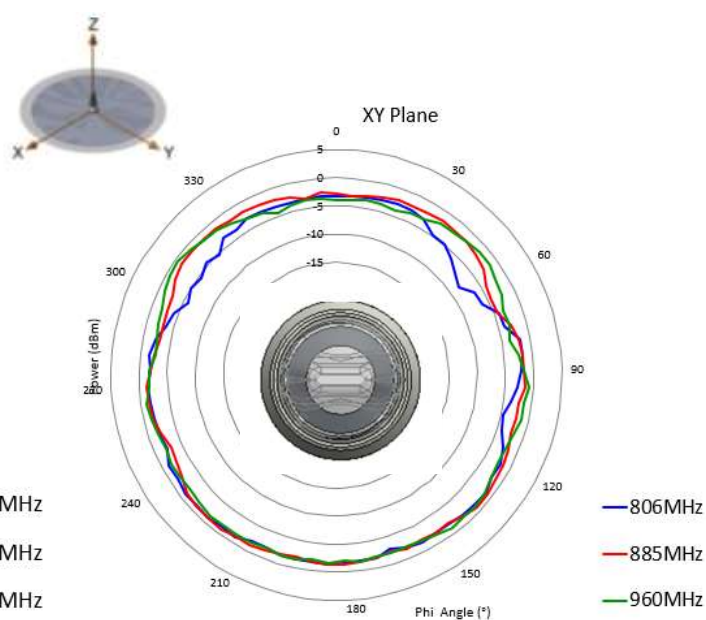
### Free Space Radiation Pattern

ICEFIN806NMO

#### Elevation Plane



#### Horizontal Plane



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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

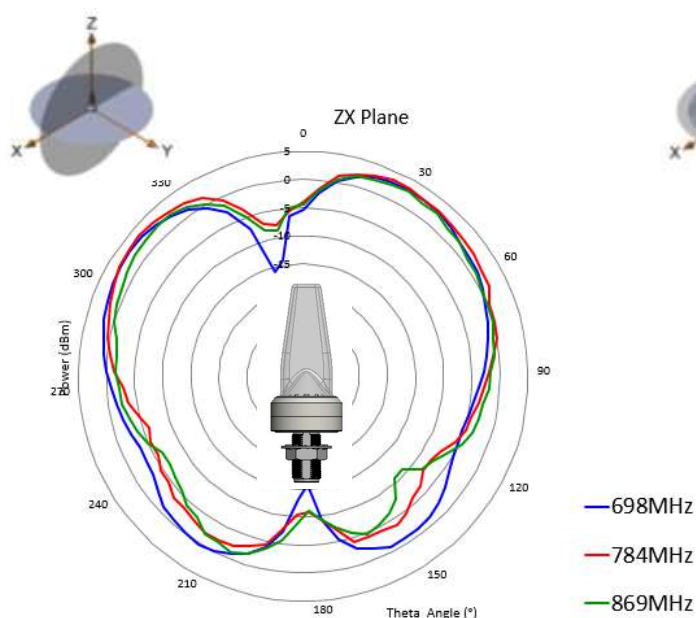
PART NUMBER: ICEFINXXX

## CHARTS

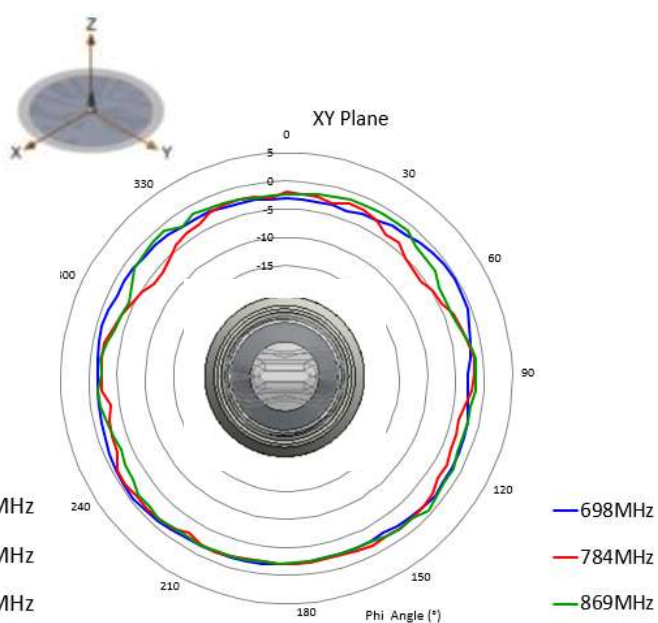
### Free Space Radiation Pattern

ICEFIN698/869DMN

#### Elevation Plane



#### Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

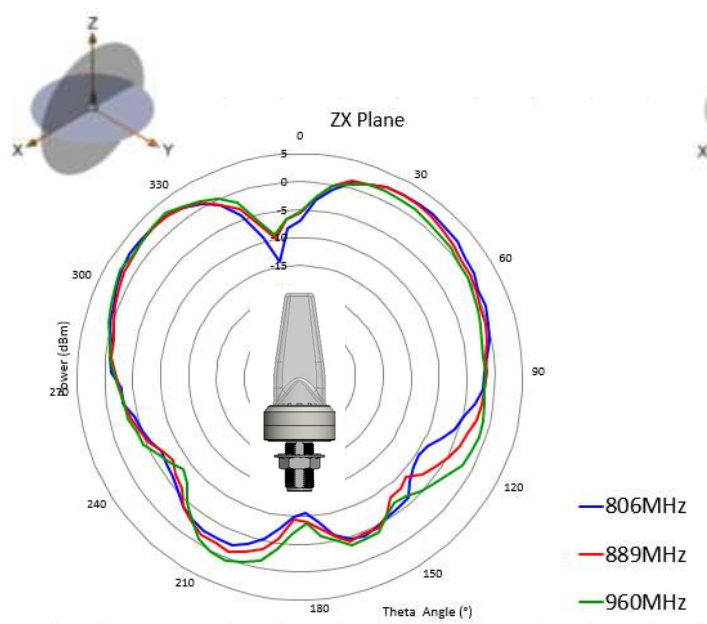
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## CHARTS

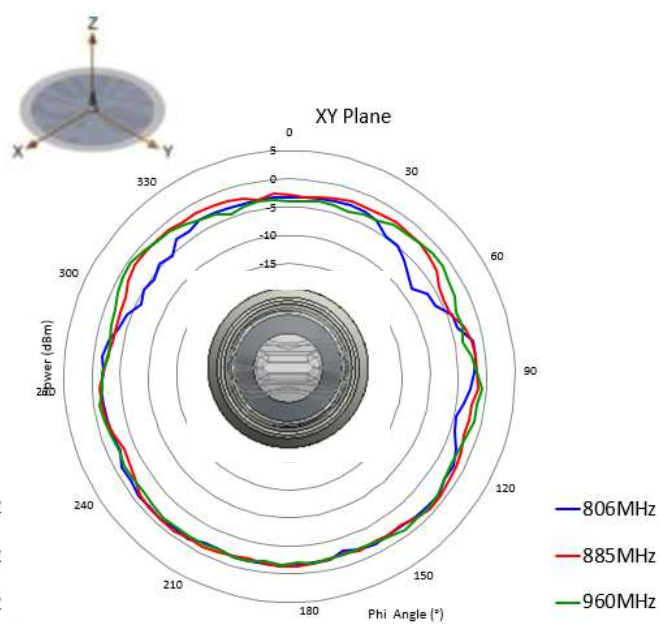
### Free Space Radiation Pattern

ICEFIN806DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

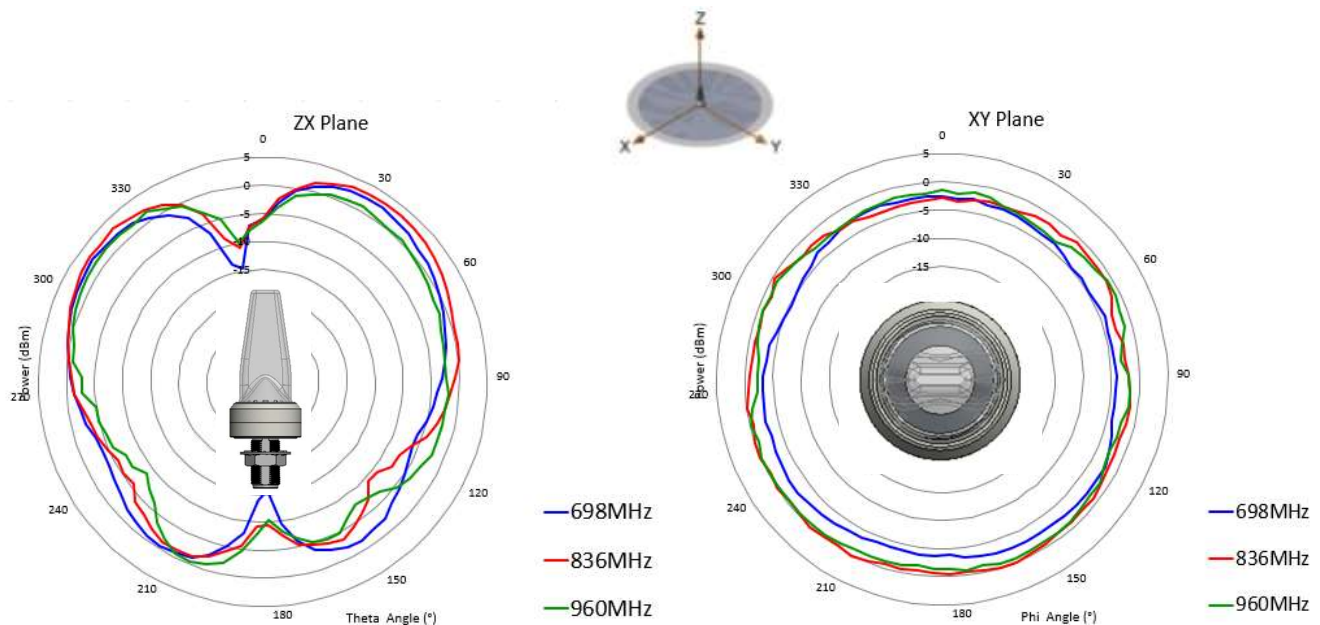
## CHARTS

### Free Space Radiation Pattern

ICEFINLDMN

#### Elevation Plane

#### Horizontal Plane



Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

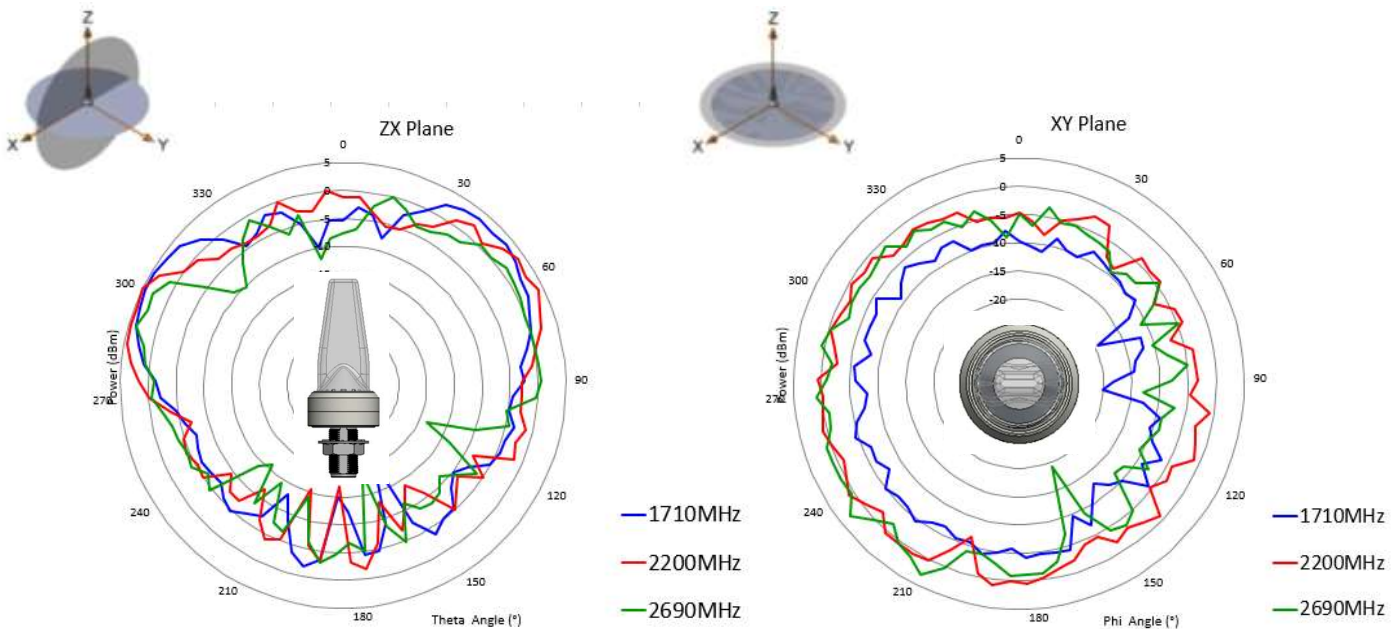
## CHARTS

### Free Space Radiation Pattern

ICEFINLDMN

#### Elevation Plane

#### Horizontal Plane



Issue: 1743

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Series: IceFin

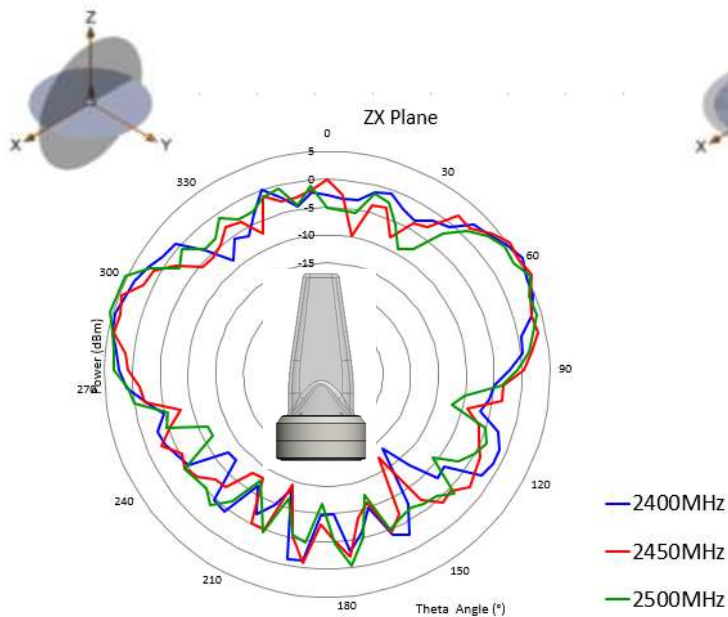
PART NUMBER: ICEFINXXX

## CHARTS

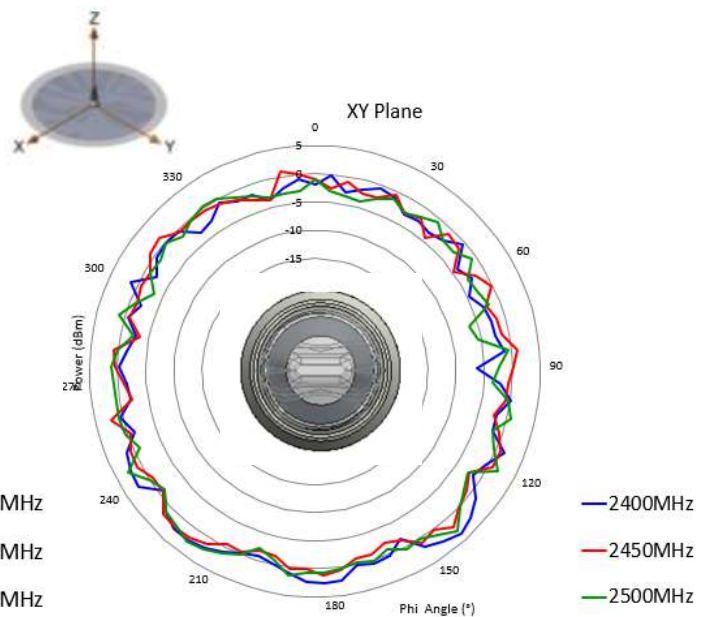
### Free Space Radiation Pattern

ICEFIN24NMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Series: IceFin

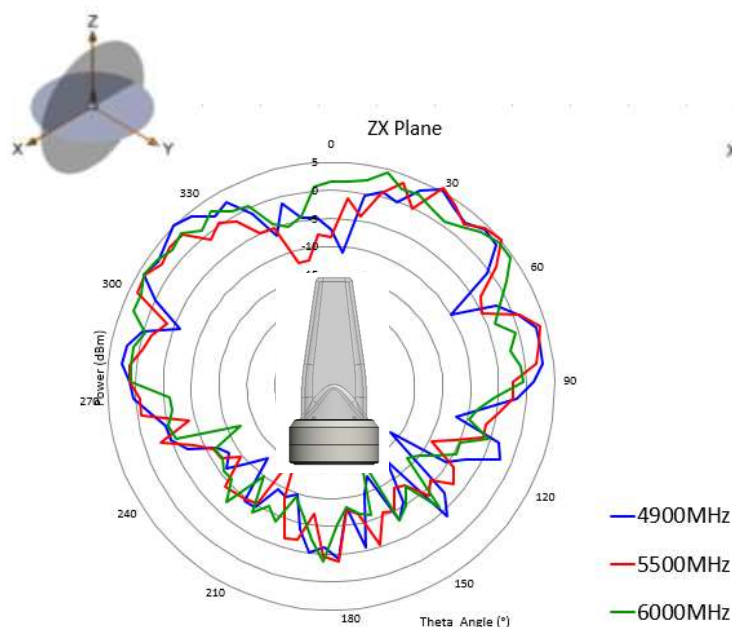
PART NUMBER: ICEFINXXX

## CHARTS

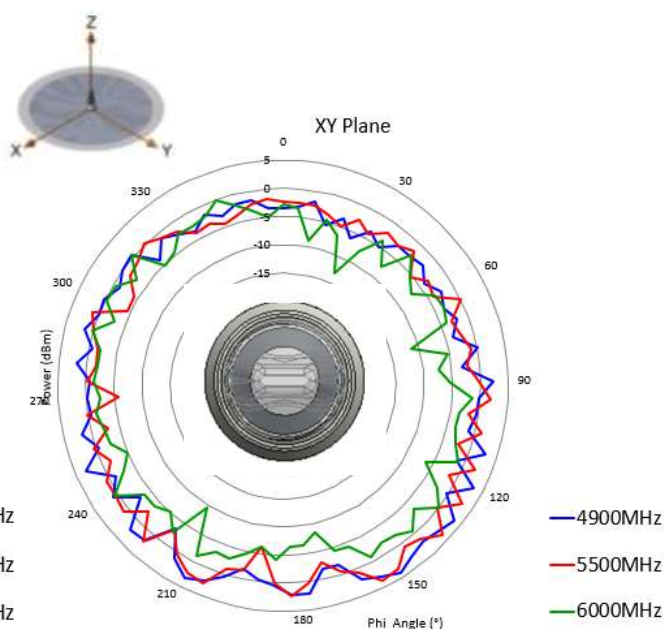
### Free Space Radiation Pattern

ICEFIN49NMOHF

#### Elevation Plane



#### Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

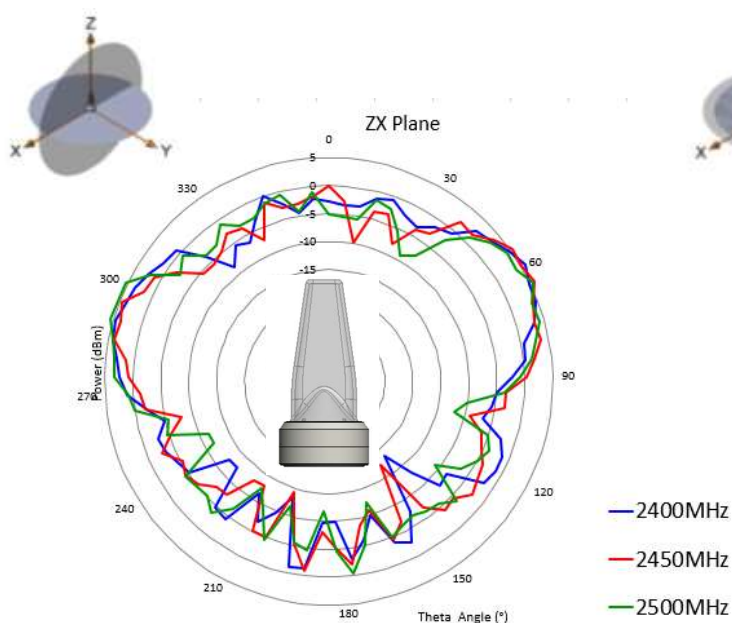
PART NUMBER: ICEFINXXX

## CHARTS

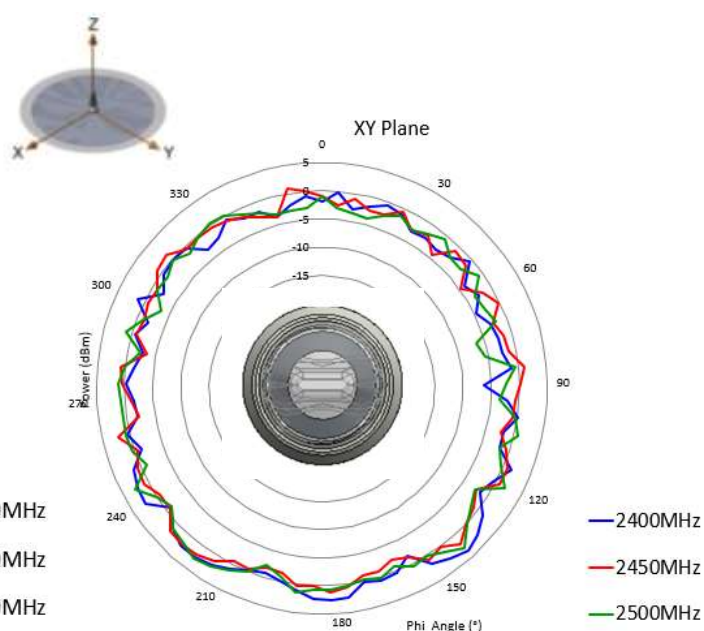
### Free Space Radiation Pattern

ICEFINWNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

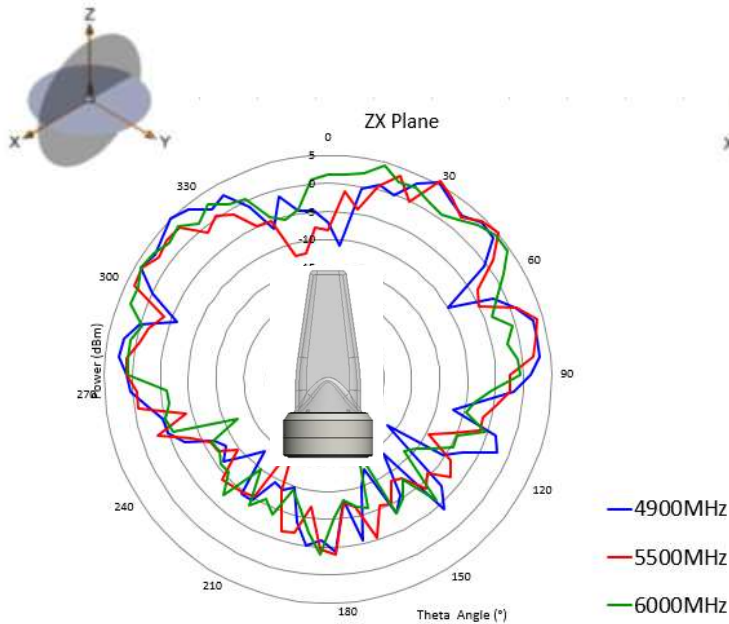
PART NUMBER: ICEFINXXX

## CHARTS

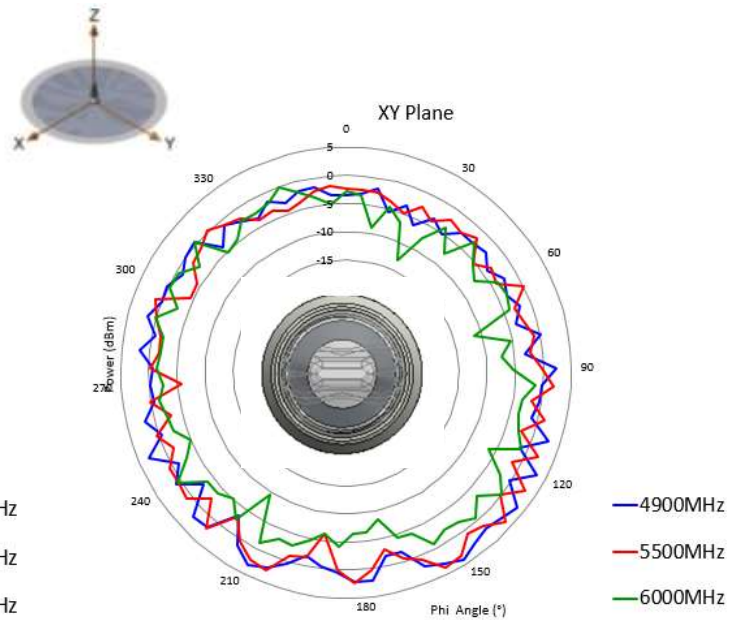
### Free Space Radiation Pattern

ICEFINWNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

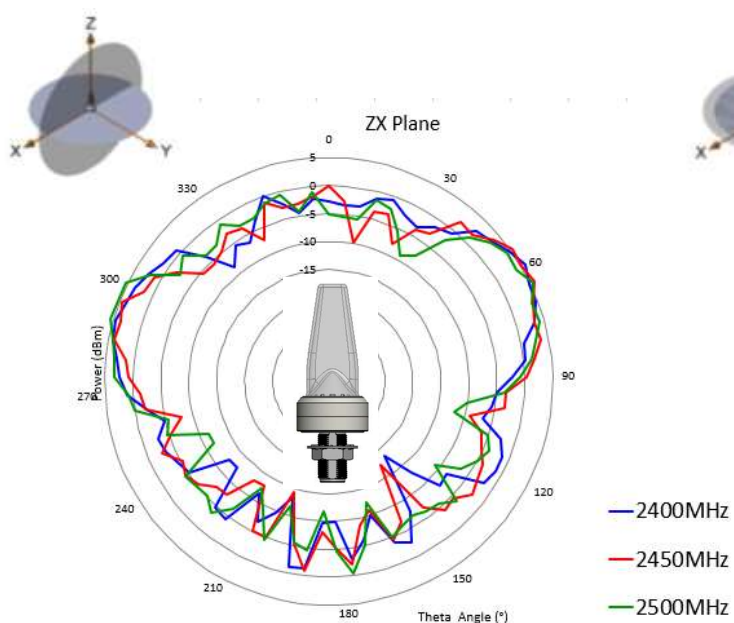
PART NUMBER: ICEFINXXX

## CHARTS

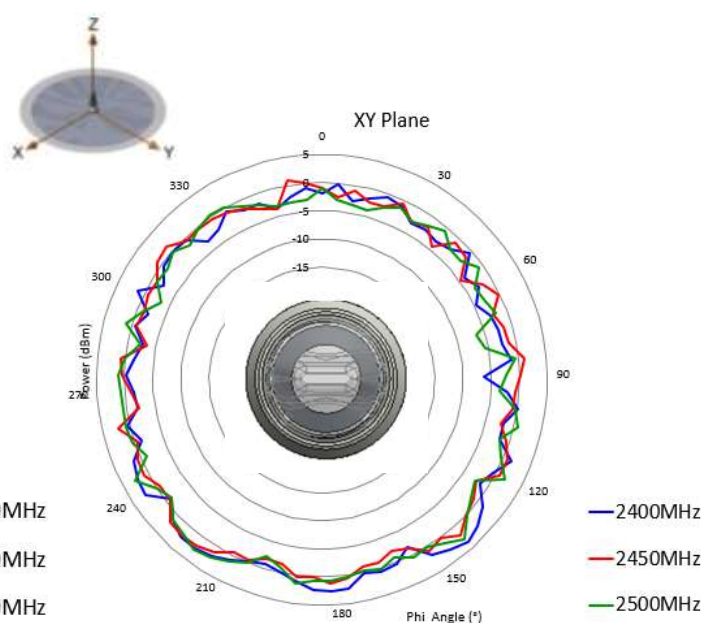
### Free Space Radiation Pattern

ICEFIN24DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

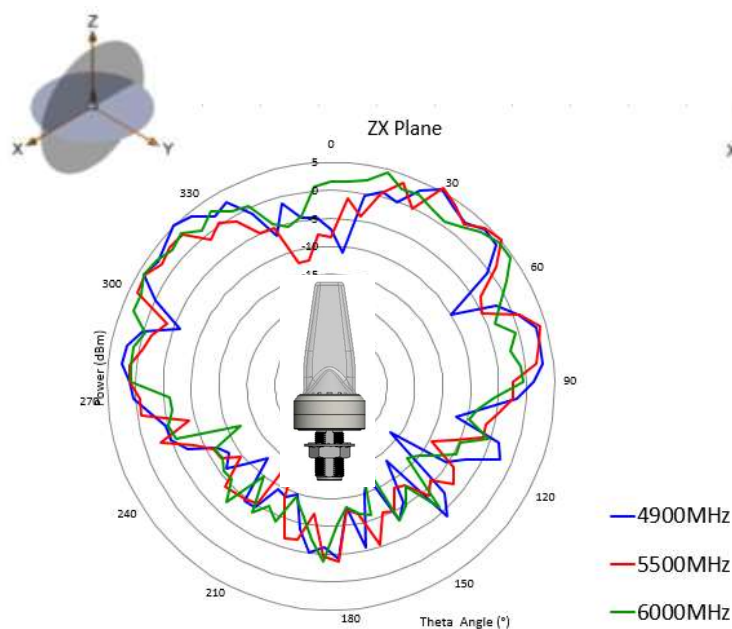
PART NUMBER: ICEFINXXX

## CHARTS

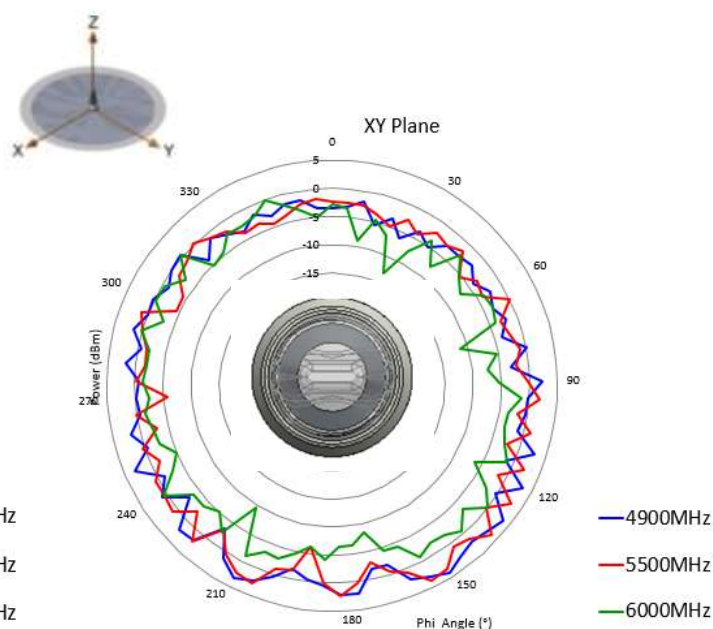
### Free Space Radiation Pattern

ICEFIN49DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

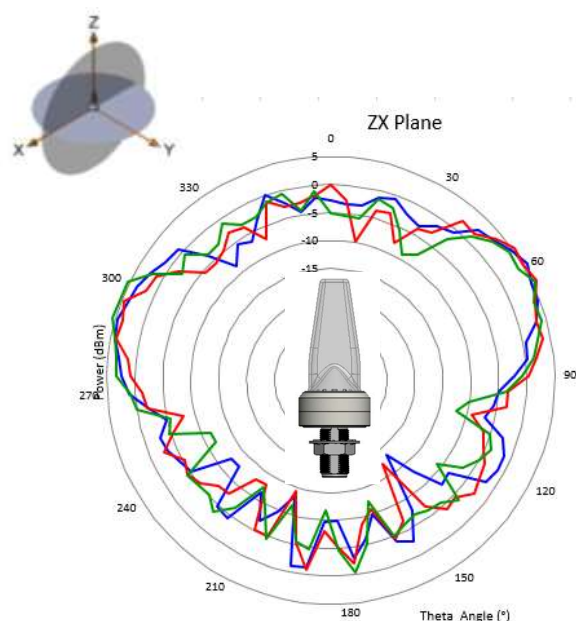
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## CHARTS

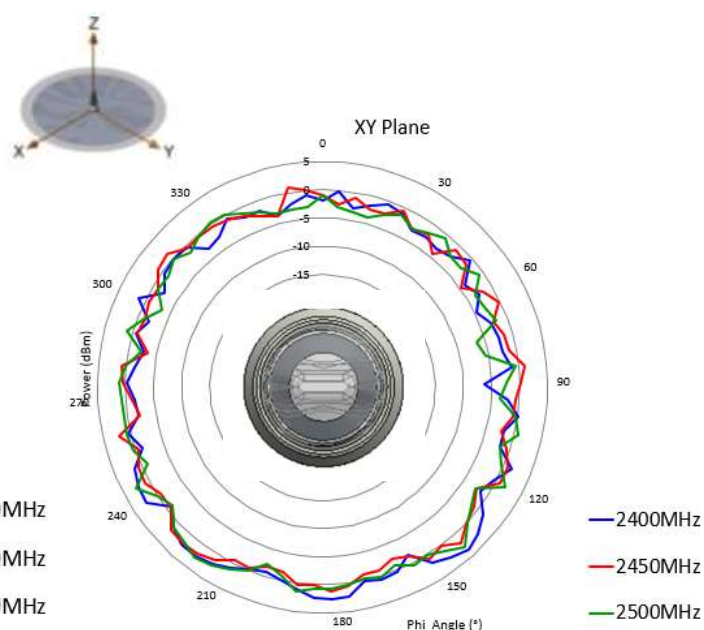
### Free Space Radiation Pattern

ICEFINWDMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

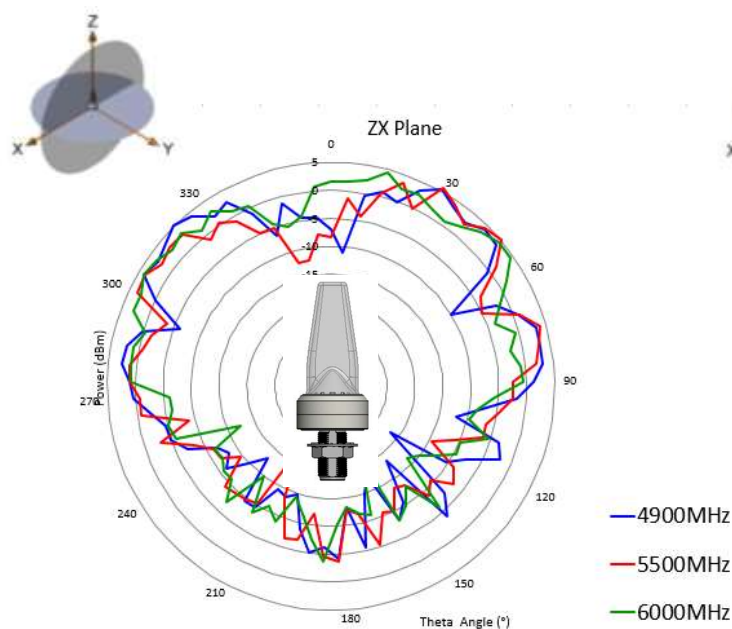
PART NUMBER: ICEFINXXX

## CHARTS

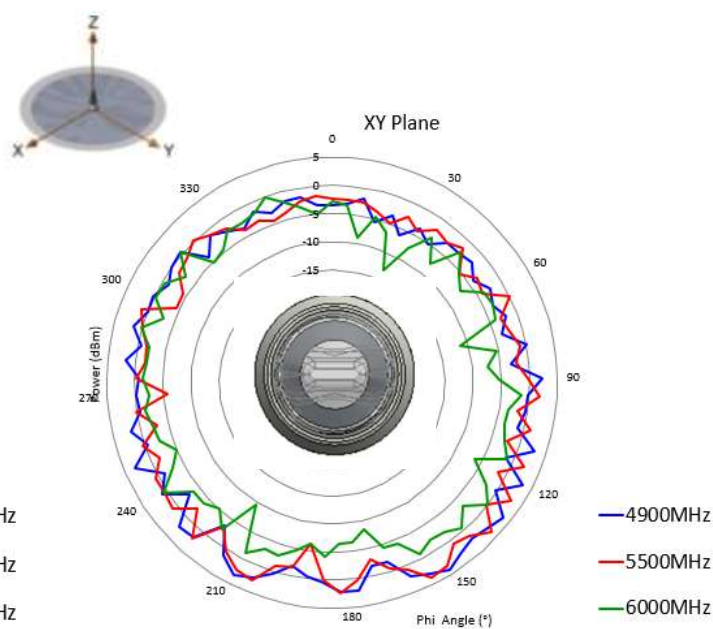
### Free Space Radiation Pattern

ICEFINWDMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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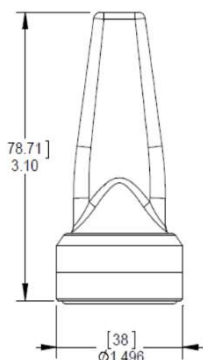
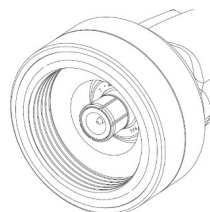
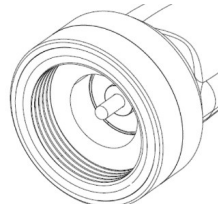
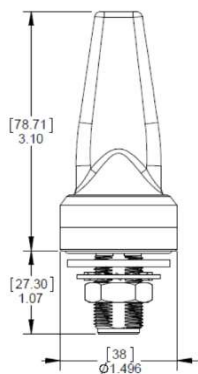
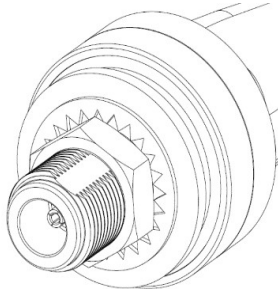
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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

## PACKAGING

| Project          | Color   | Frequency                  | Size                                                                                | Fixing System Connector                                                                                                                                         | Packaging                        |
|------------------|---------|----------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| ICEFINLNMOHF     | Clarity | 698-960MHz<br>1710-2700MHz |   | <br>NMOHF<br>NMO + HF Connector                                              | 16 pcs / Tray<br>32 pcs / Carton |
| ICEFIN698/960NMO | Clarity | 750-960MHz                 |                                                                                     | <br>NMO<br>Pogo Pin Connector                                               |                                  |
| ICEFIN806NMO     | Clarity | 806-960MHz                 |                                                                                     |                                                                                                                                                                 |                                  |
| ICEFIN698/869DMN | Clarity | 698-869MHz                 |  | <br>DMN<br>Direct Mount + N Female<br>Connector<br>(Screw 5/18-24 UNEF 2A) | 96 pcs / Carton                  |
| ICEFIN806DMN     | Clarity | 806-960MHz                 |                                                                                     |                                                                                                                                                                 |                                  |
| ICEFINLDMN       | Clarity | 698-960MHz<br>1710-2700MHz |                                                                                     |                                                                                                                                                                 |                                  |

Issue: 1743

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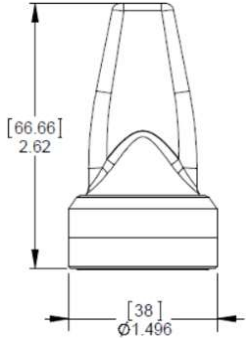
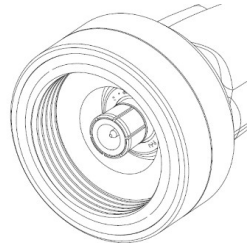
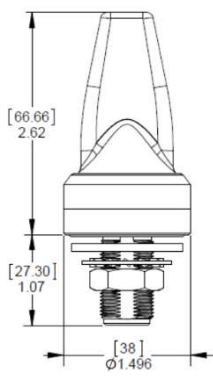
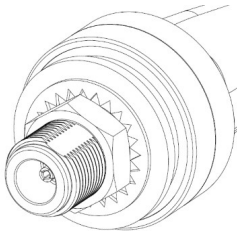
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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

## PACKAGING

| Project       | Color   | Frequency                    | Size                                                                                | Fixing System Connector                                                                                                                                   | Packaging                                      |
|---------------|---------|------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| ICEFIN24NMOHF | Clarity | 2400-2500MHz                 |   | <br><br>NMOHF<br>NMO + HF Connector                                     | <b>16 pcs / Tray</b><br><b>32 pcs / Carton</b> |
| ICEFIN49NMOHF | Clarity | 4900-6000MHz                 |                                                                                     |                                                                                                                                                           |                                                |
| ICEFINWVNMOHF | Clarity | 2400-2500MHz<br>4900-6000MHz |                                                                                     |                                                                                                                                                           |                                                |
| ICEFIN24DMN   | Clarity | 2400-2500MHz                 |  | <br><br>Direct Mount<br>N Female Connector<br>(Screw 5/18-24 UNEF 2A) | <b>96 pcs / Carton</b>                         |
| ICEFIN49DMN   | Clarity | 4900-6000MHz                 |                                                                                     |                                                                                                                                                           | <b>16 pcs / Tray</b><br><b>32 pcs / Carton</b> |
| ICEFINWVDMN   | Clarity | 2400-2500MHz<br>4900-6000MHz |                                                                                     |                                                                                                                                                           | <b>96 pcs / Carton</b>                         |

Issue: 1743

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