

Description: LOW PROFILE MULTIBAND ANTENNA

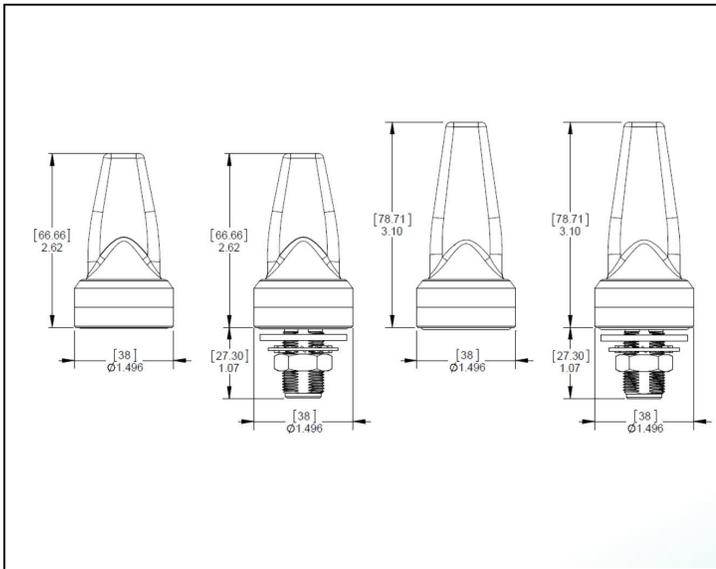
Series: IceFin

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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Pulse (Suzhou) Wireless Products Co, Inc.  
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Suzhou New District  
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Tel: 86 512 6807 9998

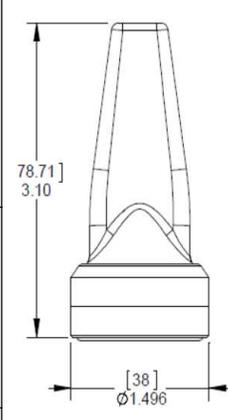
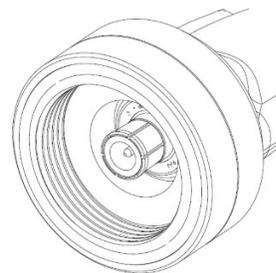
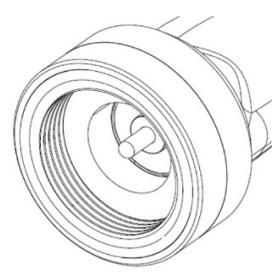
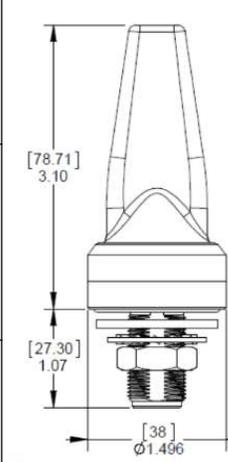
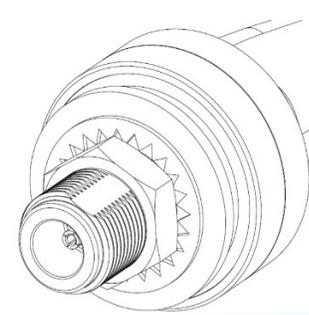


Description: LOW PROFILE MULTIBAND ANTENNA

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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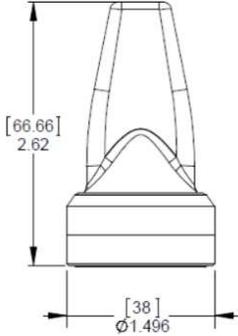
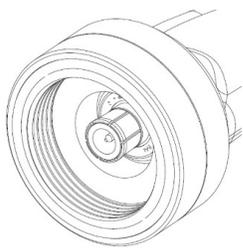
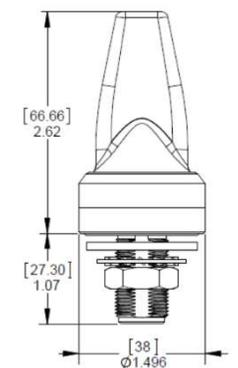
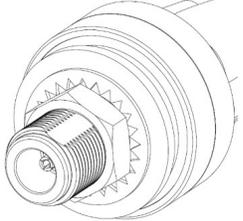
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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

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

| Project       | Color   | Frequency                    | Size  | Fixing System Connector   |
|---------------|---------|------------------------------|---|---|
| ICEFIN24NMOHF | Clarity | 2400-2500MHz                 |   | <br>NMOHF<br>NMO + HF Connector                                    |
| ICEFIN49NMOHF | Clarity | 4900-6000MHz                 |   |   |
| ICEFINWNMOHF  | Clarity | 2400-2500MHz<br>4900-6000MHz |   |   |
| ICEFIN24DMN   | Clarity | 2400-2500MHz                 |  | <br>Direct Mount<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.

Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

**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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Series: IceFin

PART NUMBER: ICEFINXXX

**ELECTRICAL SPECIFICATIONS**

| 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) |
| ICEFINWNMOHF  | 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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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

**PART NUMBER: ICEFINXXX****MECHANICAL SPECIFICATIONS**

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

**ENVIRONMENTAL SPECIFICATIONS**

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

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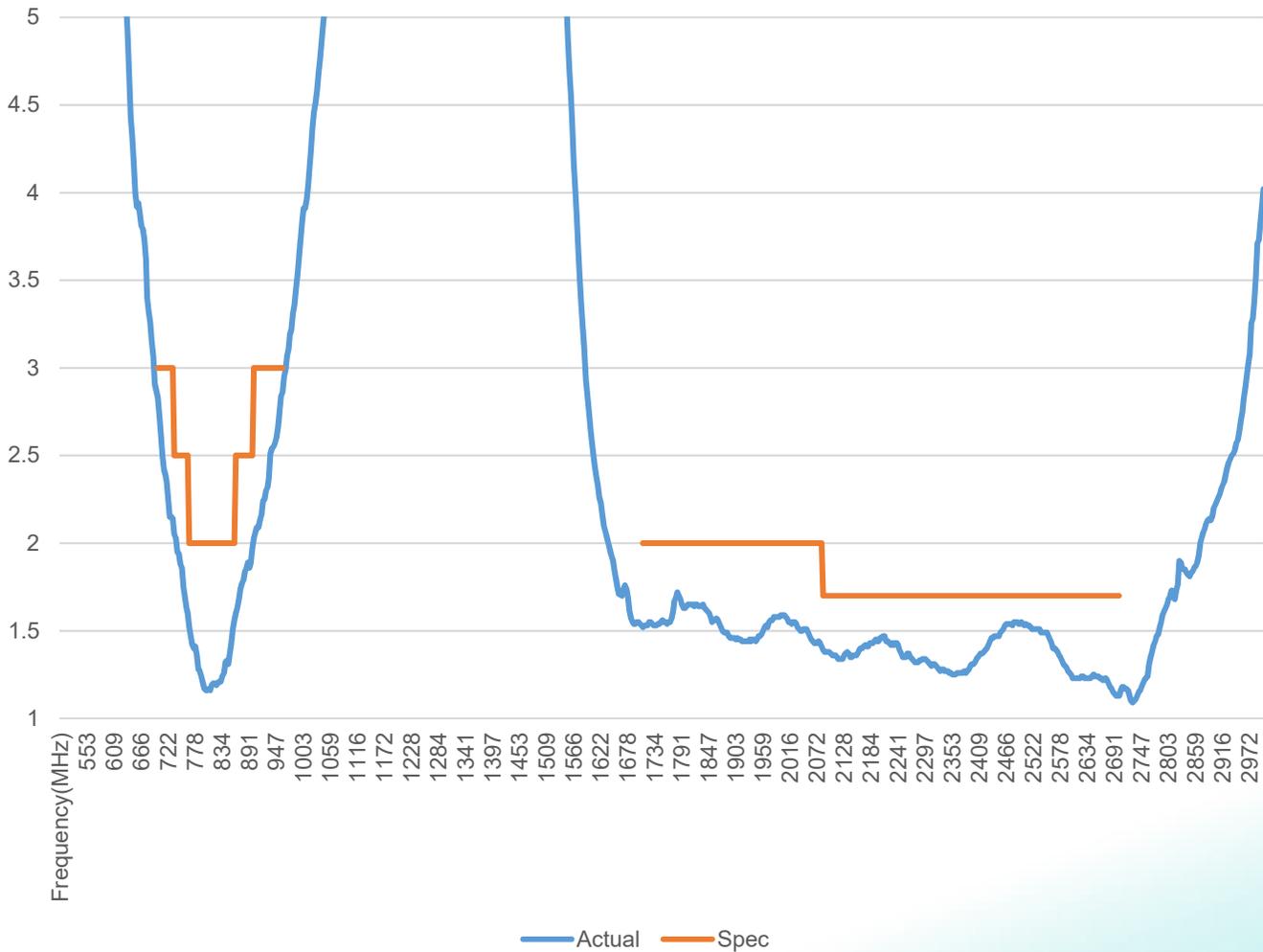
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

VSWR

ICEFINLNMOHF  
VSWR



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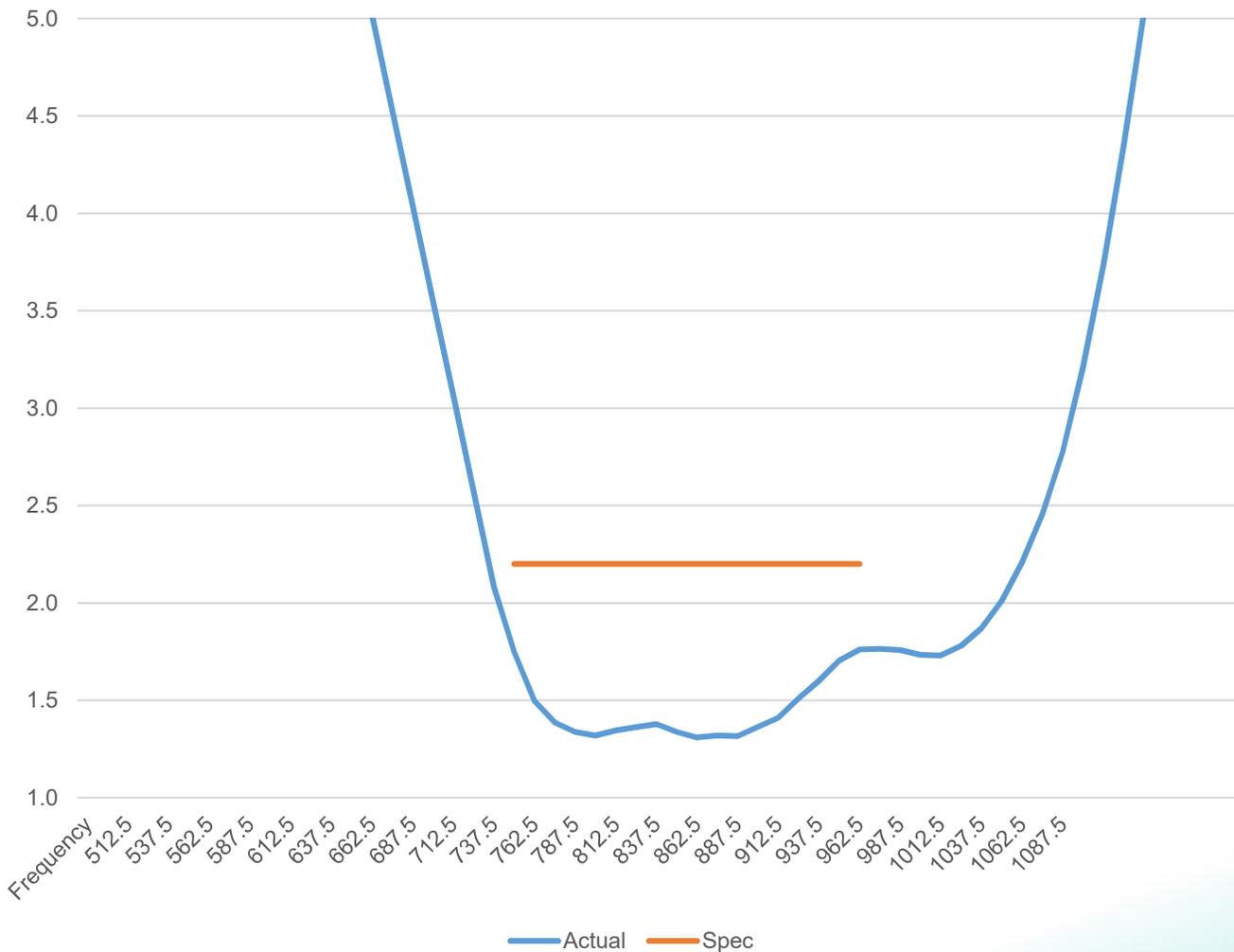
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CHARTS

VSWR

ICEFIN698/960NMO  
VSWR



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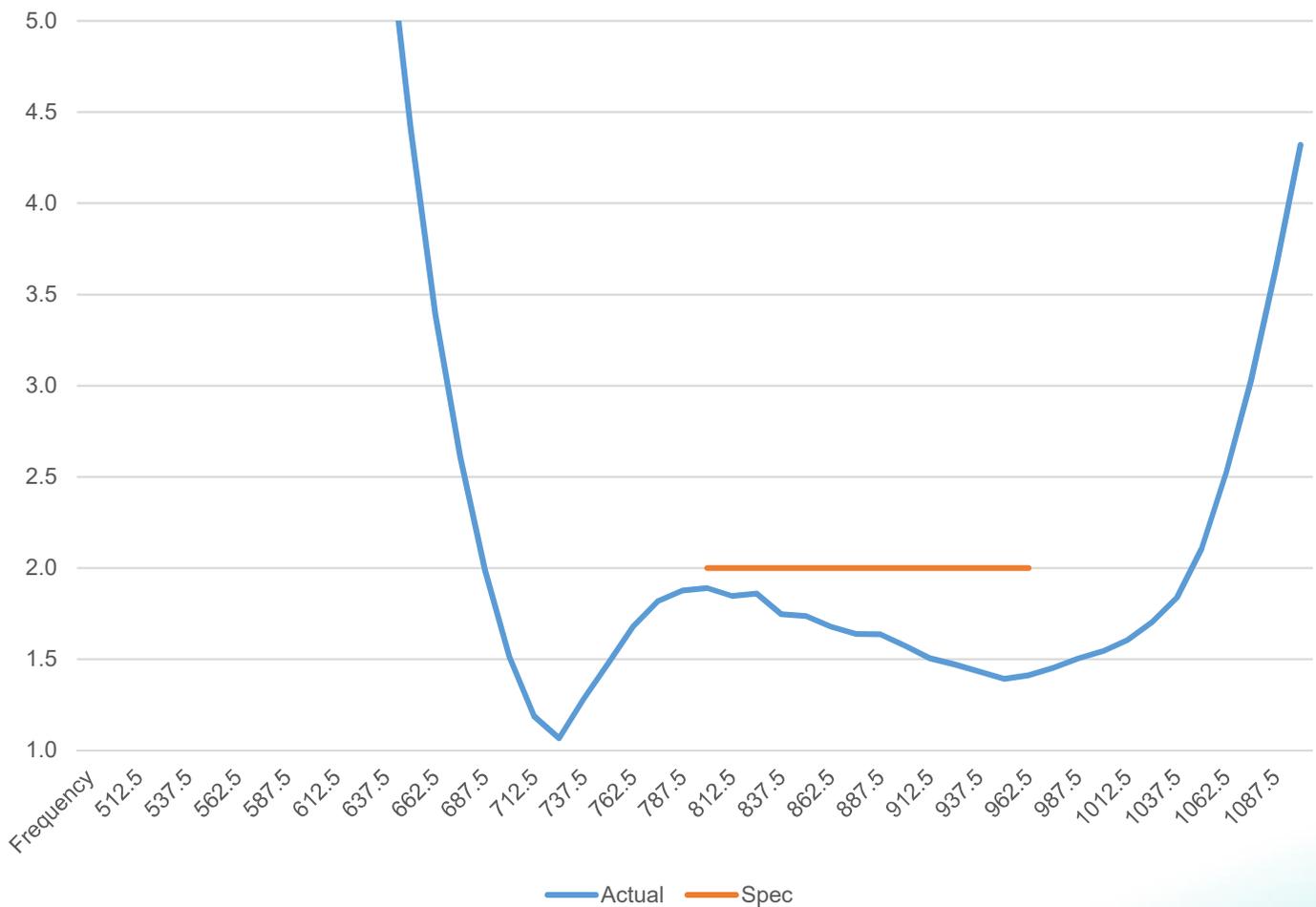
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CHARTS

VSWR

ICEFIN806NMO  
VSWR



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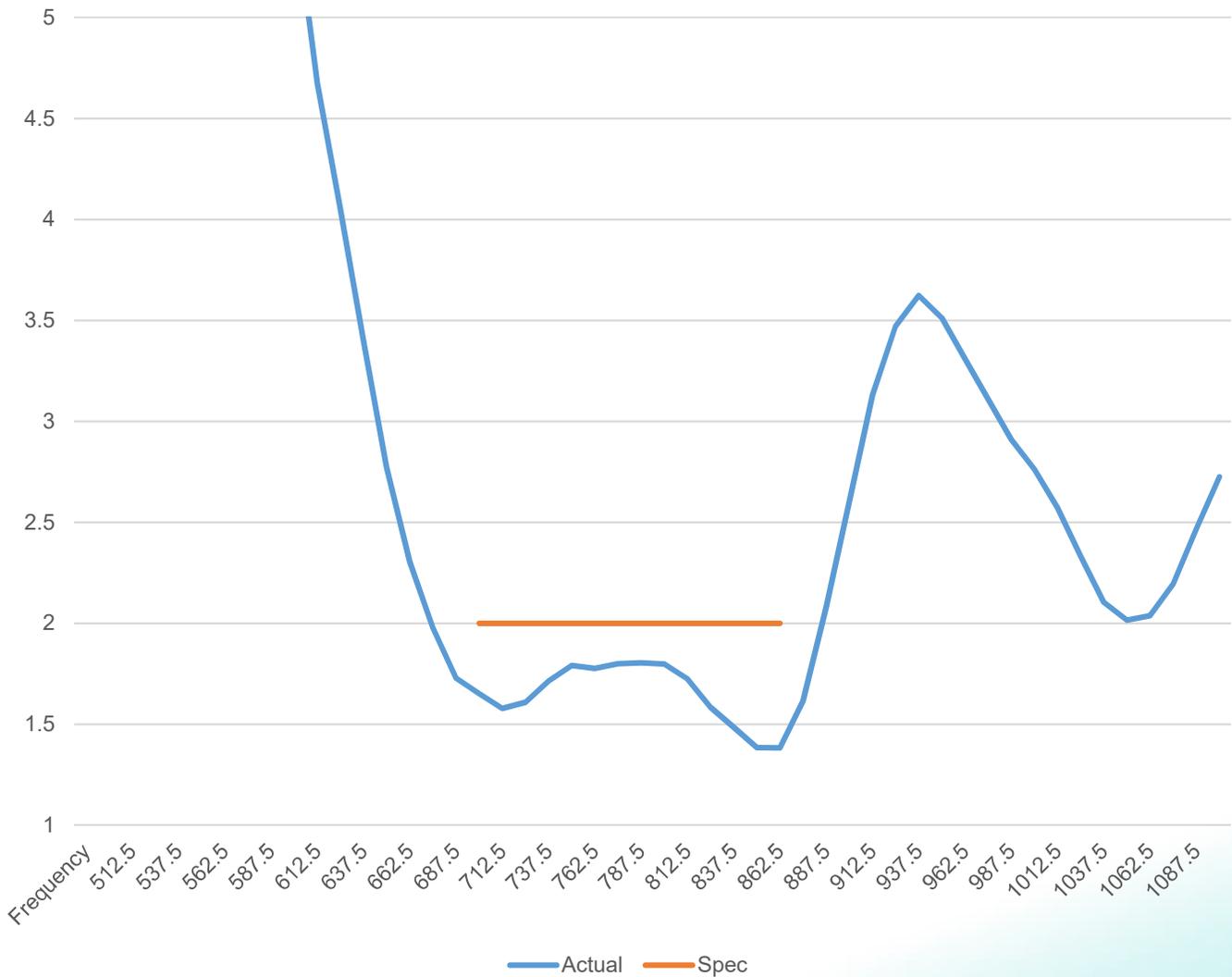
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CHARTS

VSWR

ICEFIN698/869DMN  
VSWR



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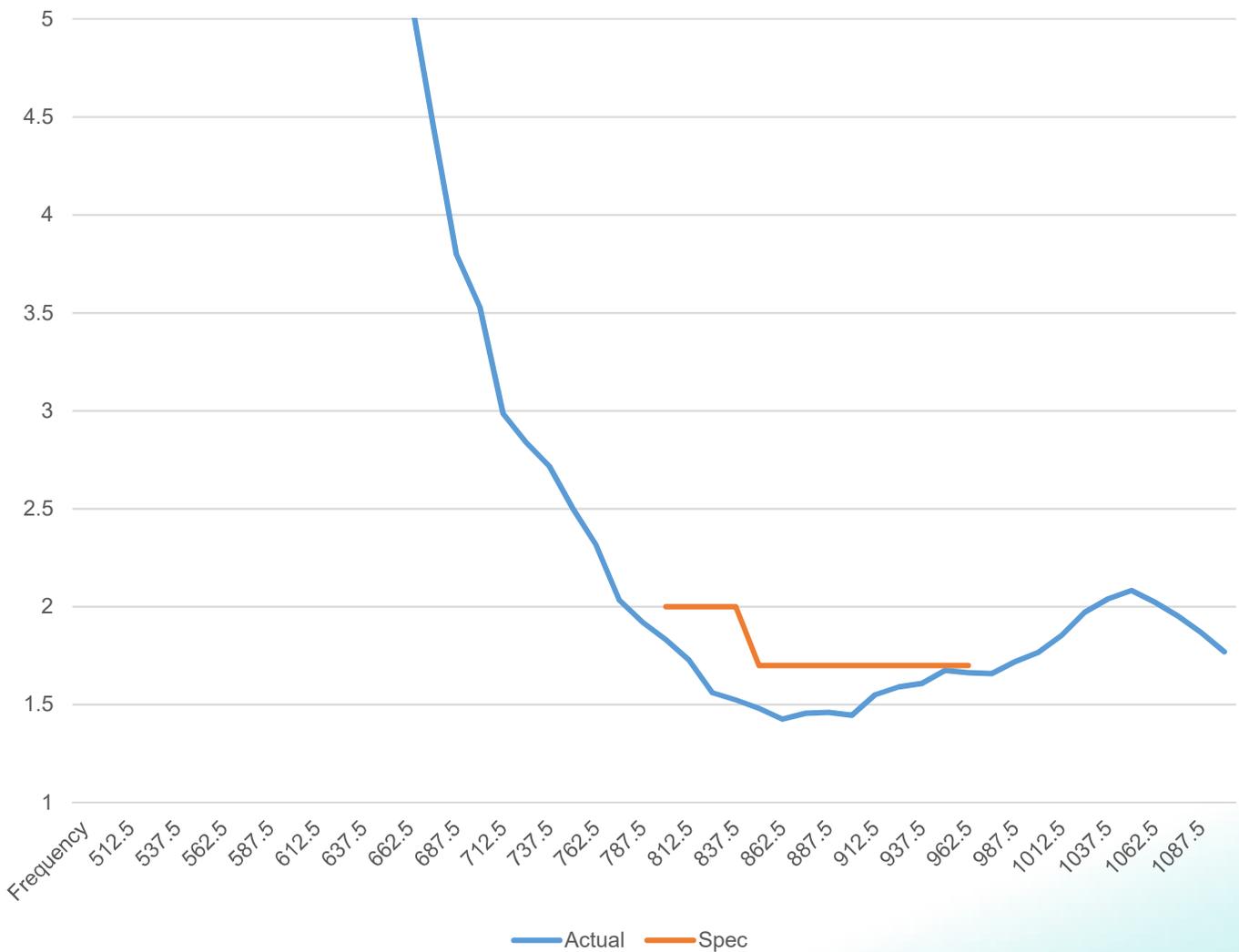
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**CHARTS**

**VSWR**

ICEFIN806DMN  
VSWR



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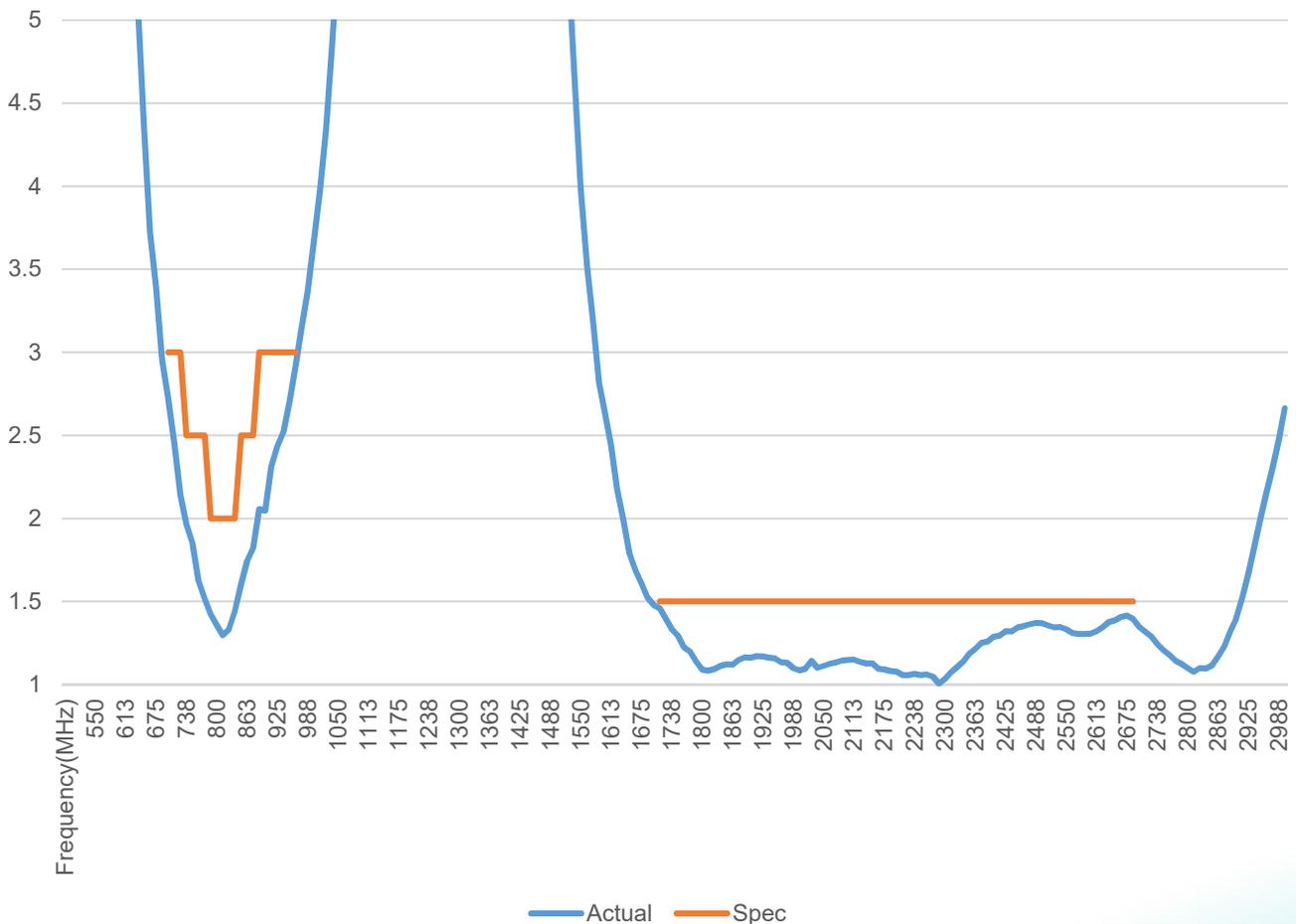
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CHARTS

VSWR

ICEFINLDMN  
VSWR



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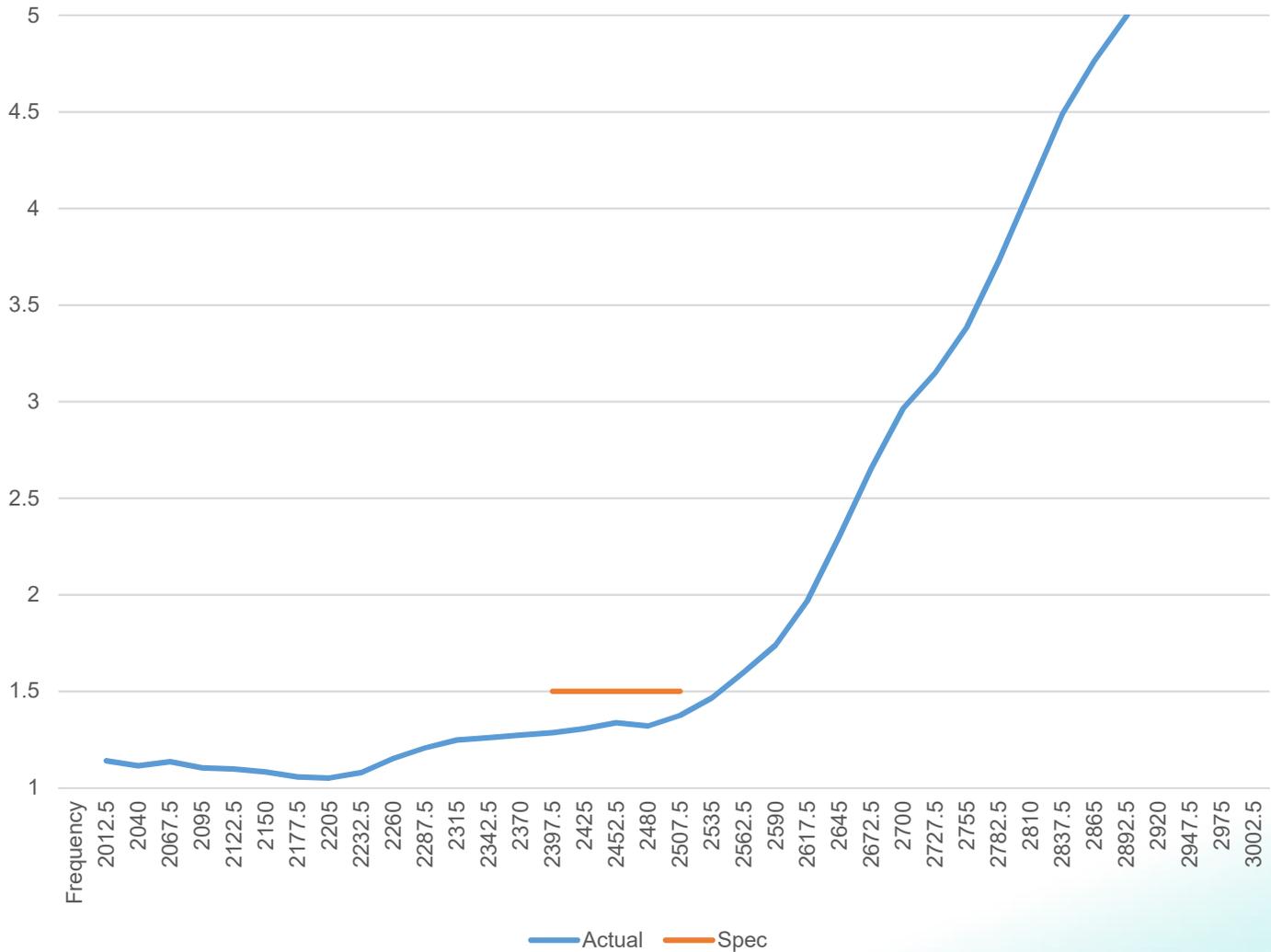
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CHARTS

VSWR

ICEFIN24NMOHF  
VSWR



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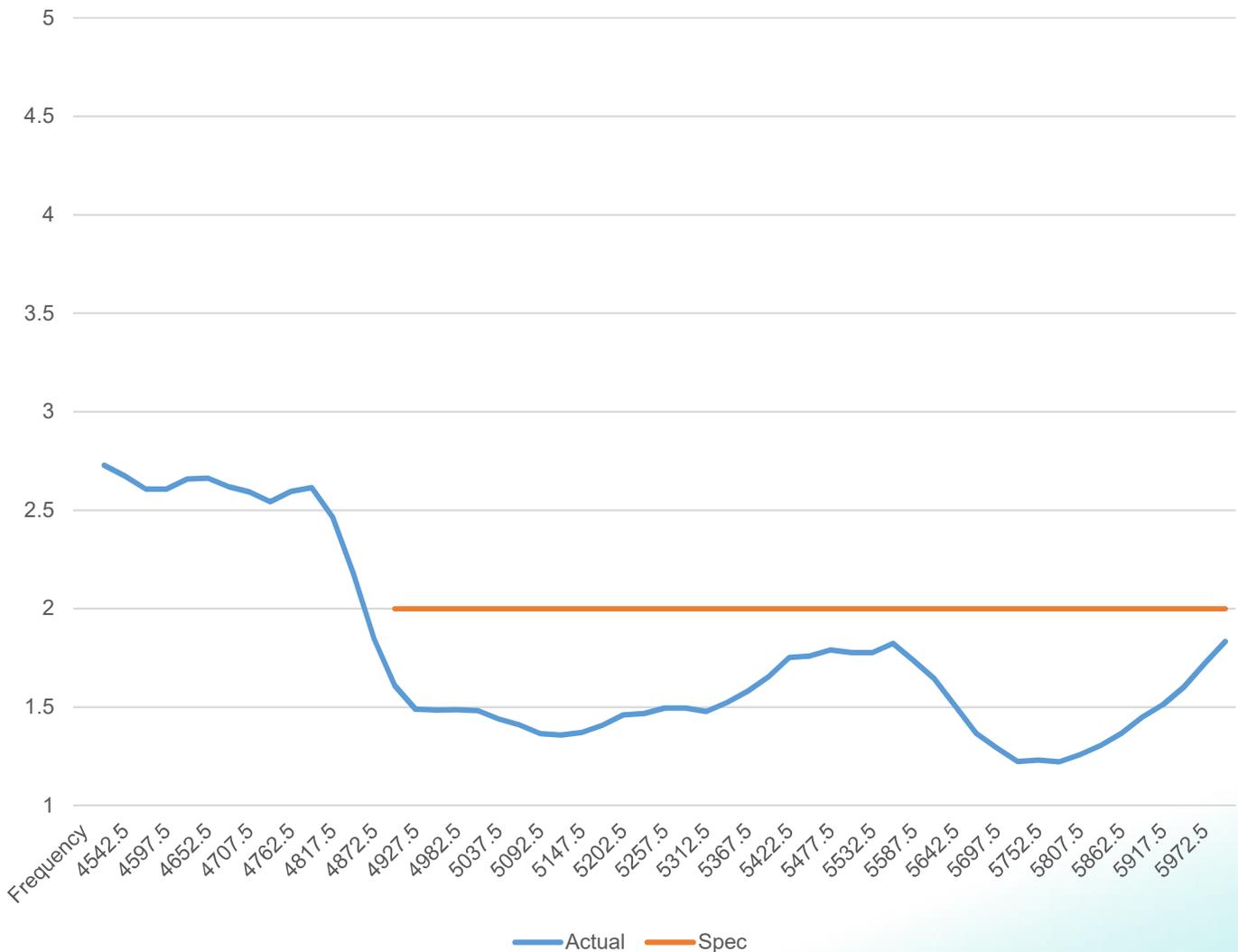
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

**VSWR**

**ICEFIN49NMOHF  
VSWR**



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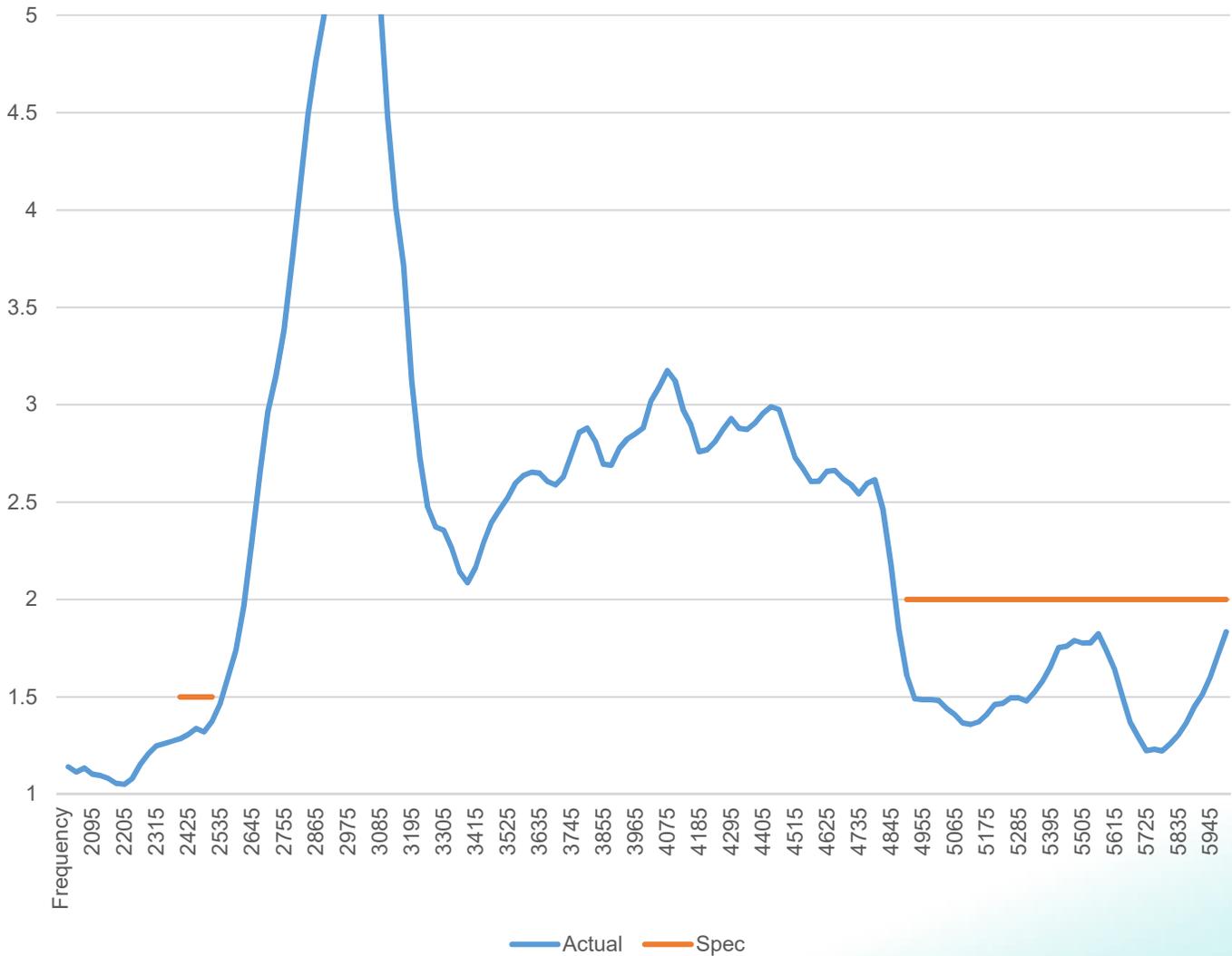
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CHARTS

VSWR

ICEFINWNMOHF  
VSWR



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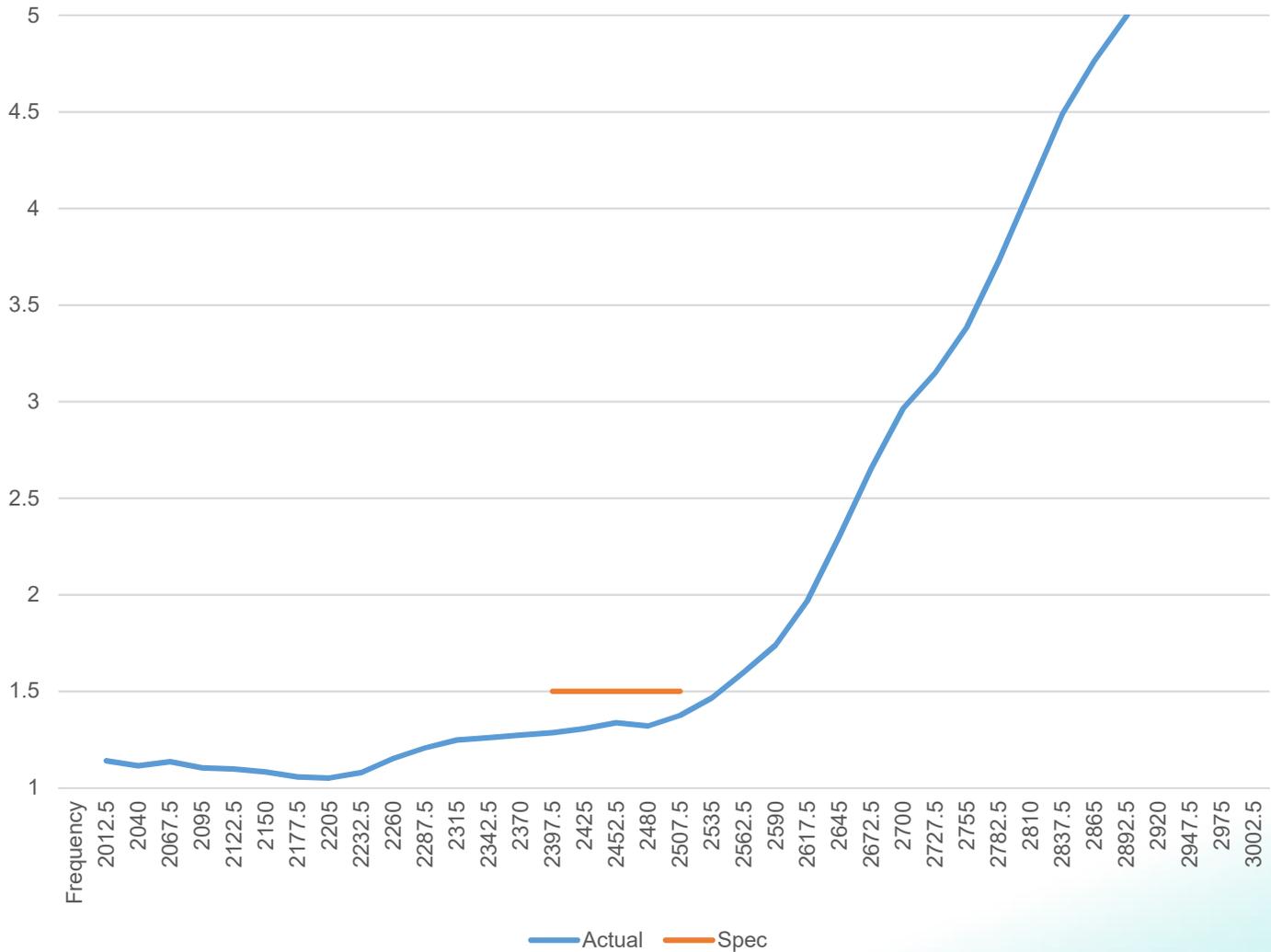
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CHARTS

VSWR

ICEFIN24DMN  
VSWR



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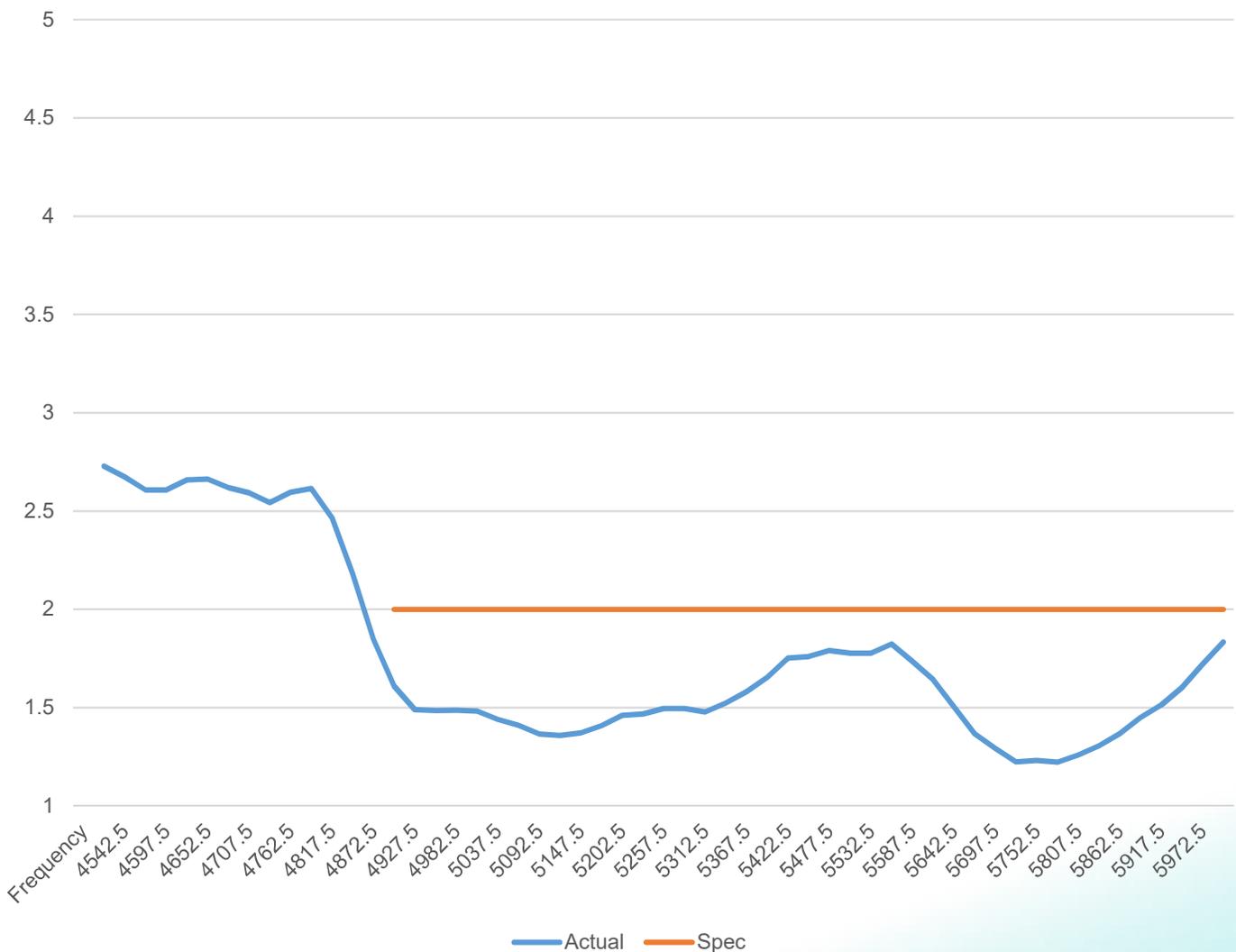
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**CHARTS**

**VSWR**

**ICEFIN49DMN  
VSWR**



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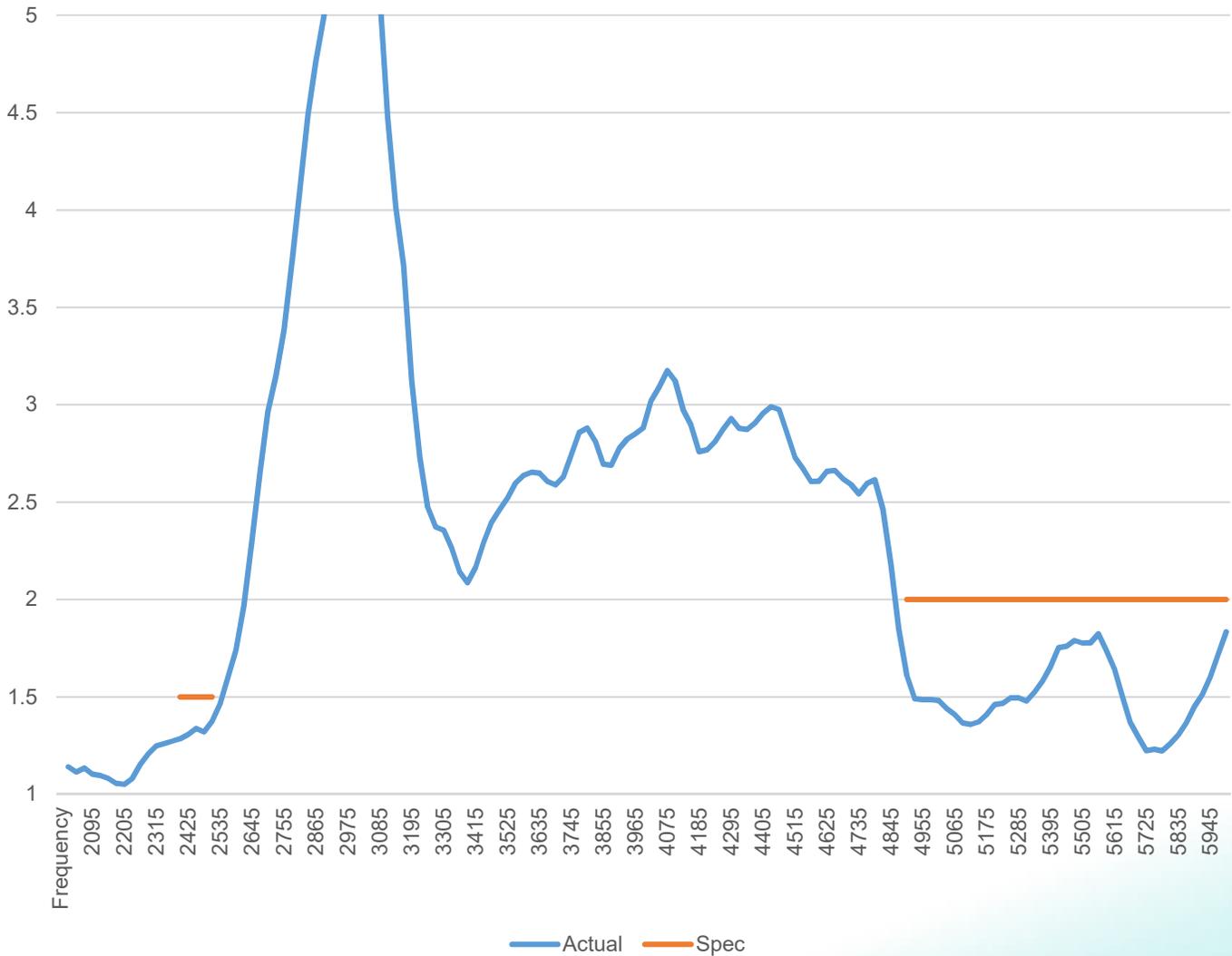
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CHARTS

VSWR

ICEFINWDMN  
VSWR



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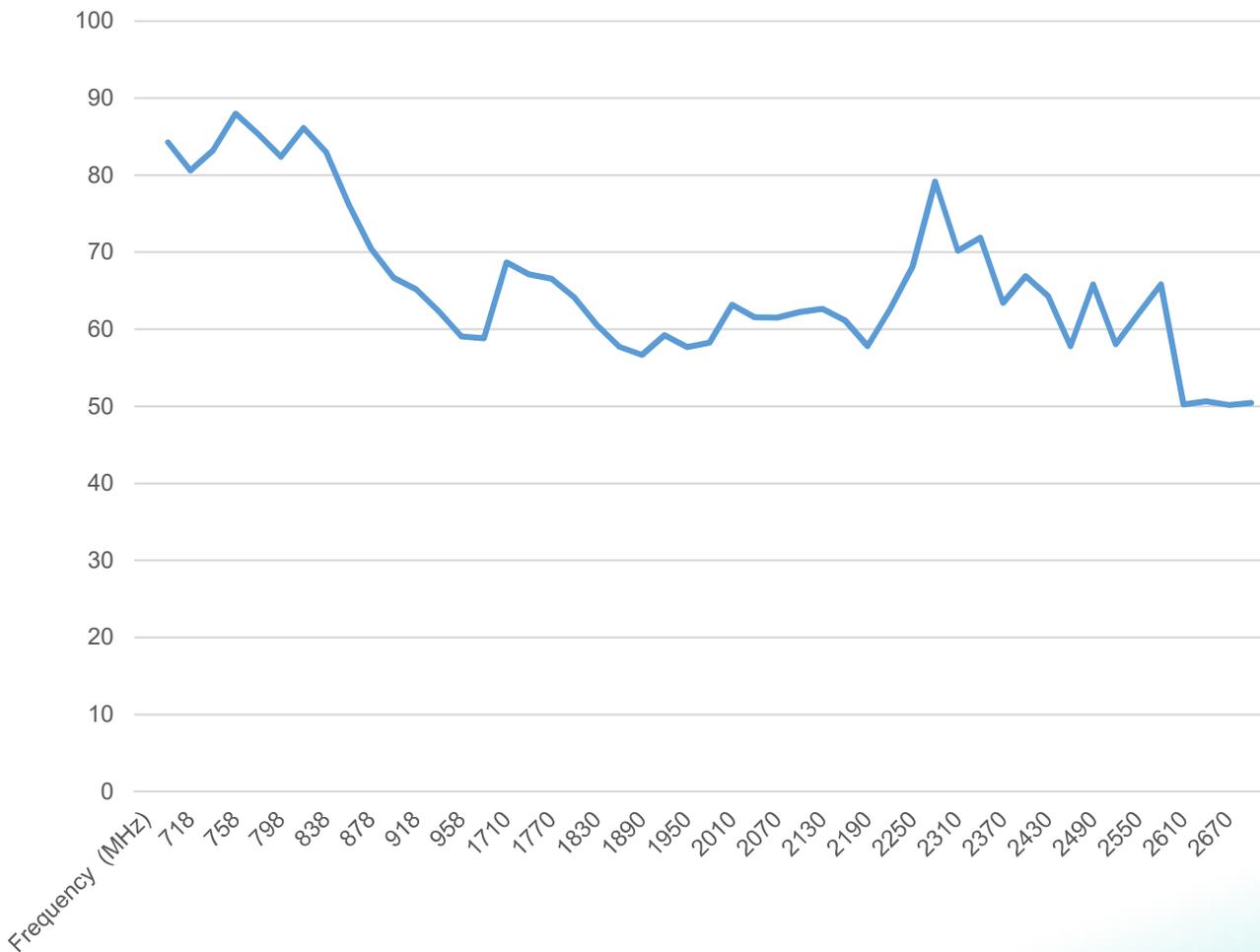
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**CHARTS**

Efficiency(%)

ICEFINLNMOHF  
Efficiency (%)



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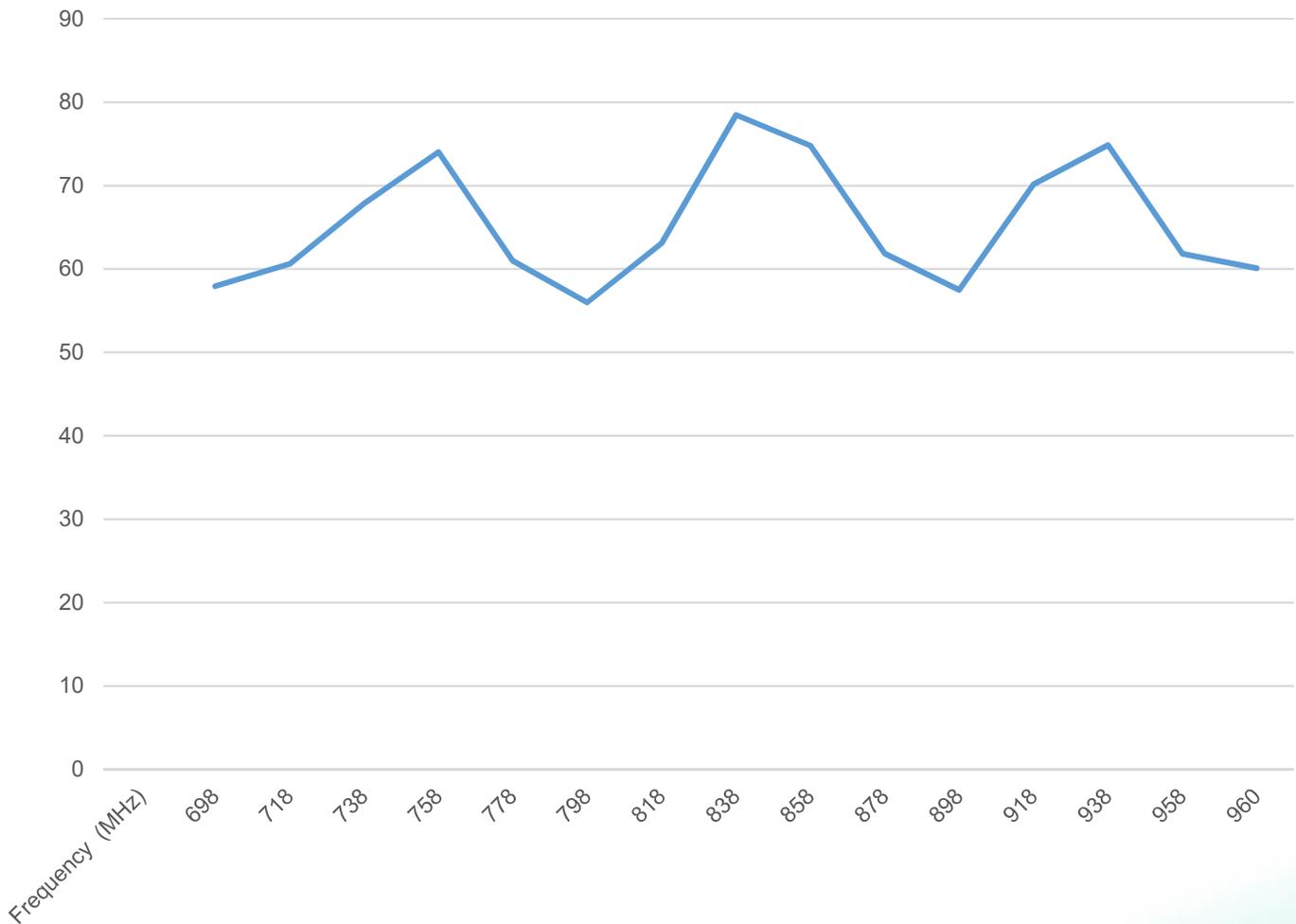
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**CHARTS**

Efficiency(%)

ICEFIN698/960NMO  
Efficiency (%)



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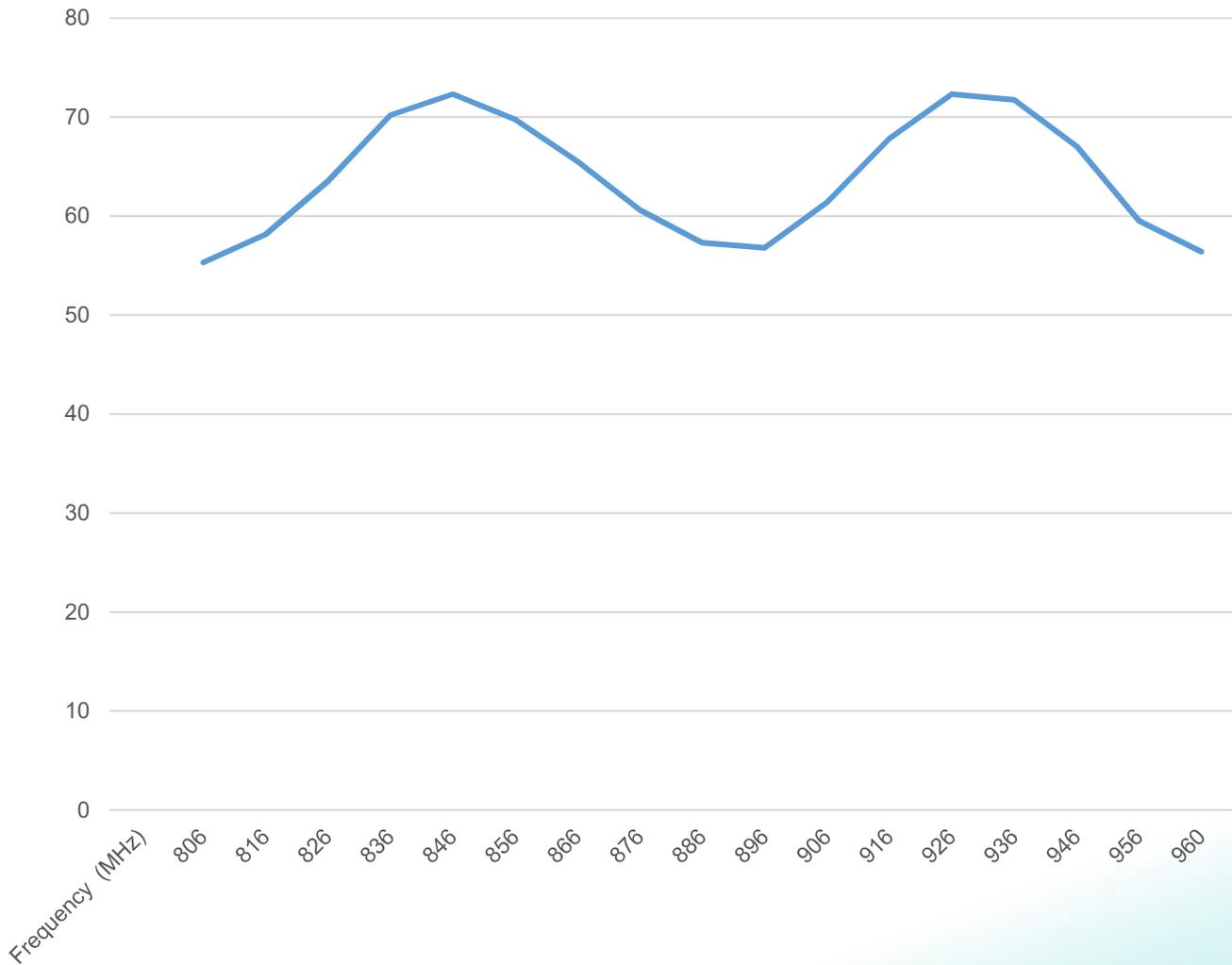
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**CHARTS**

Efficiency(%)

ICEFIN806NMO  
Efficiency (%)



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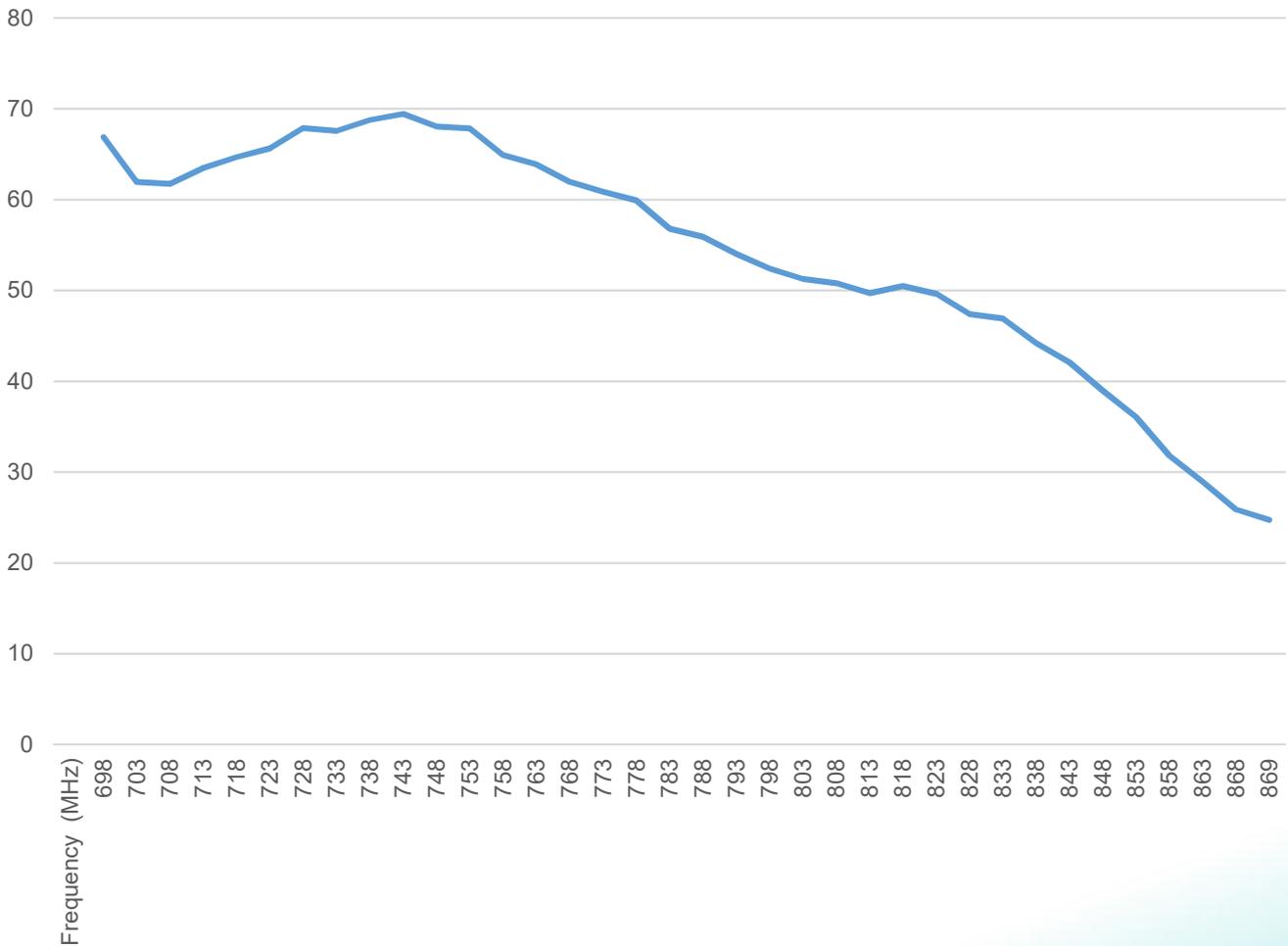
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CHARTS

Efficiency(%)

ICEFIN698/869DMN  
Efficiency (%)



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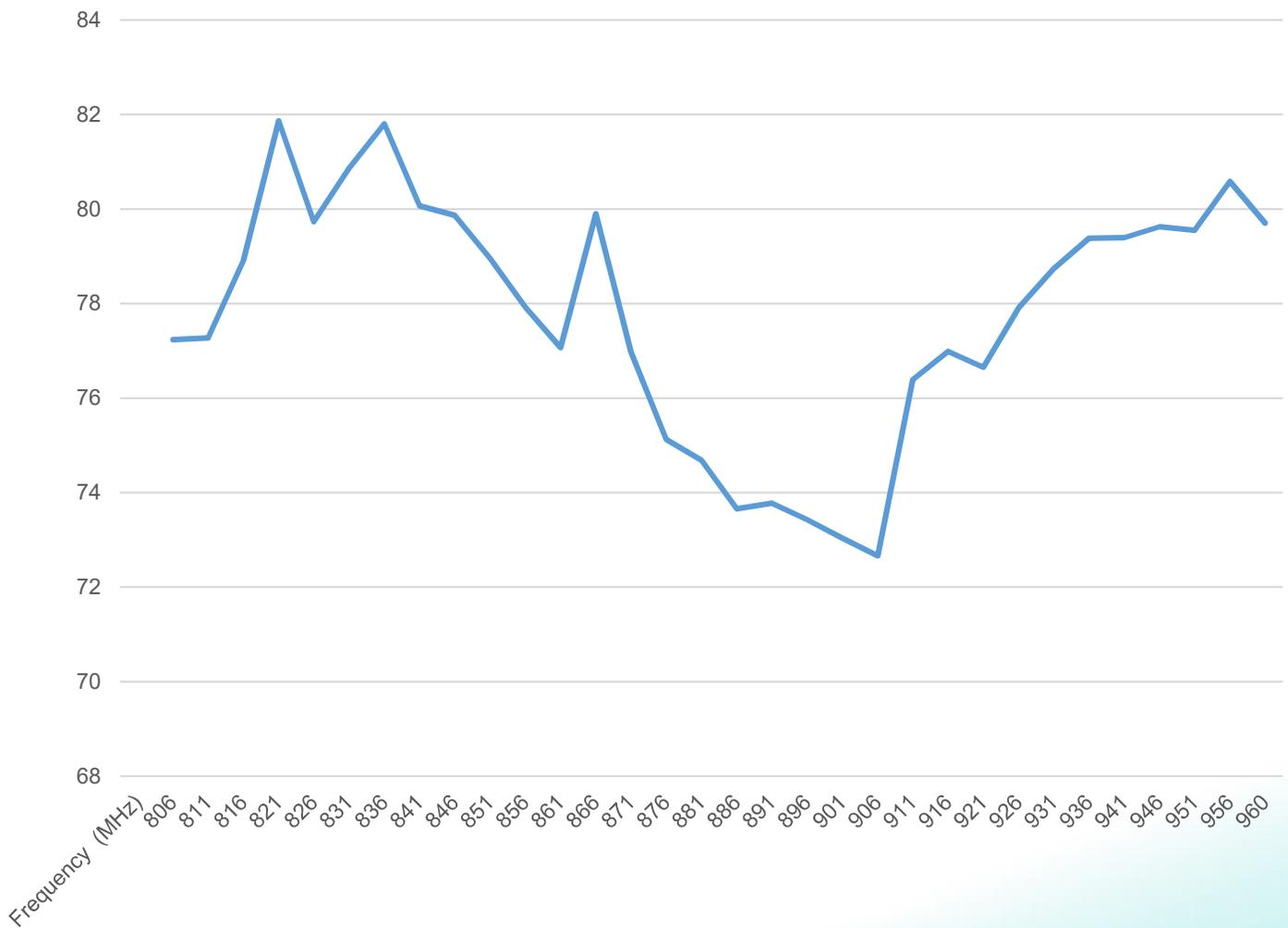
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Efficiency(%)

ICEFIN806DMN  
Efficiency (%)



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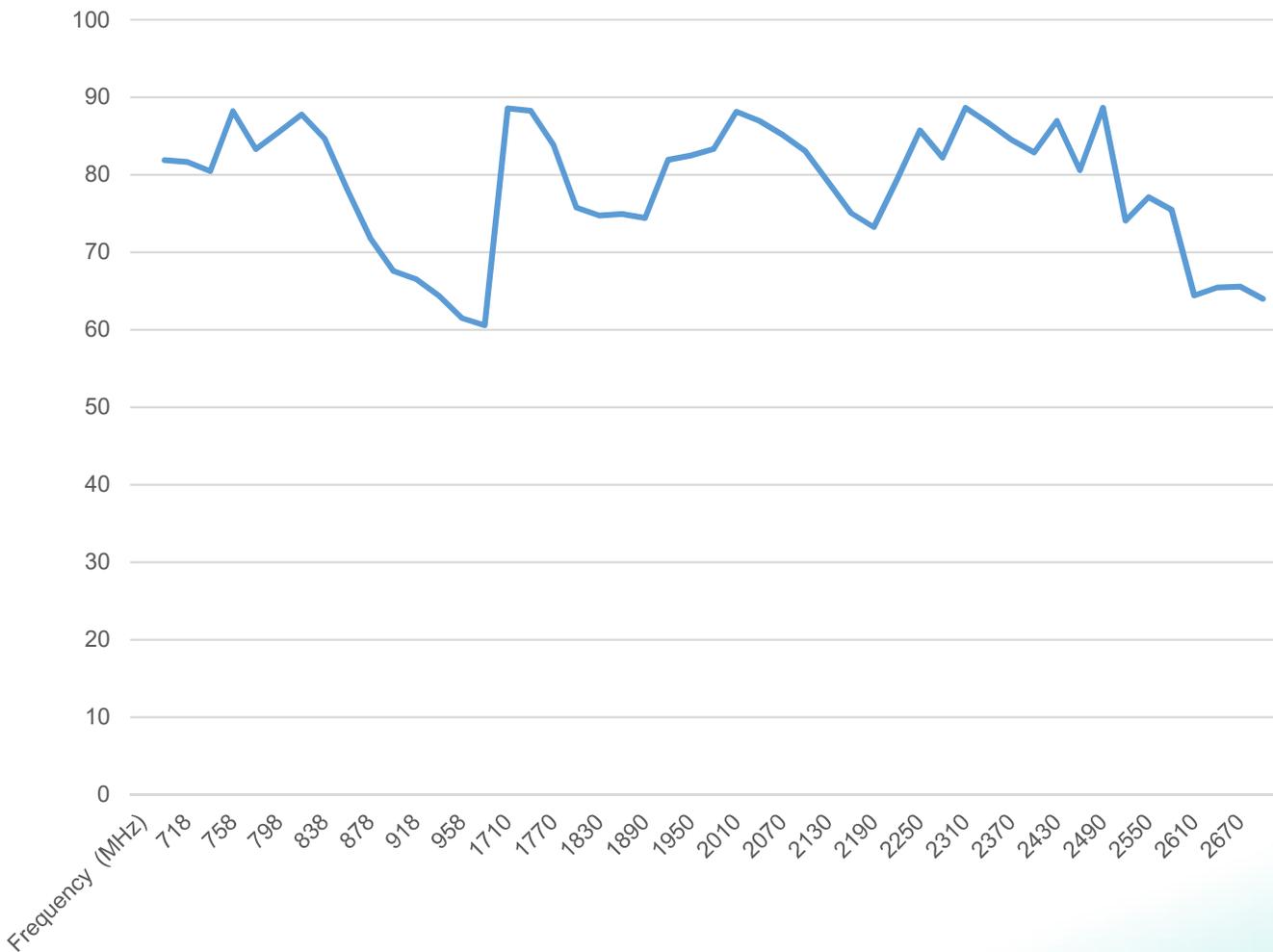
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**CHARTS**

Efficiency(%)

ICEFINLDMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

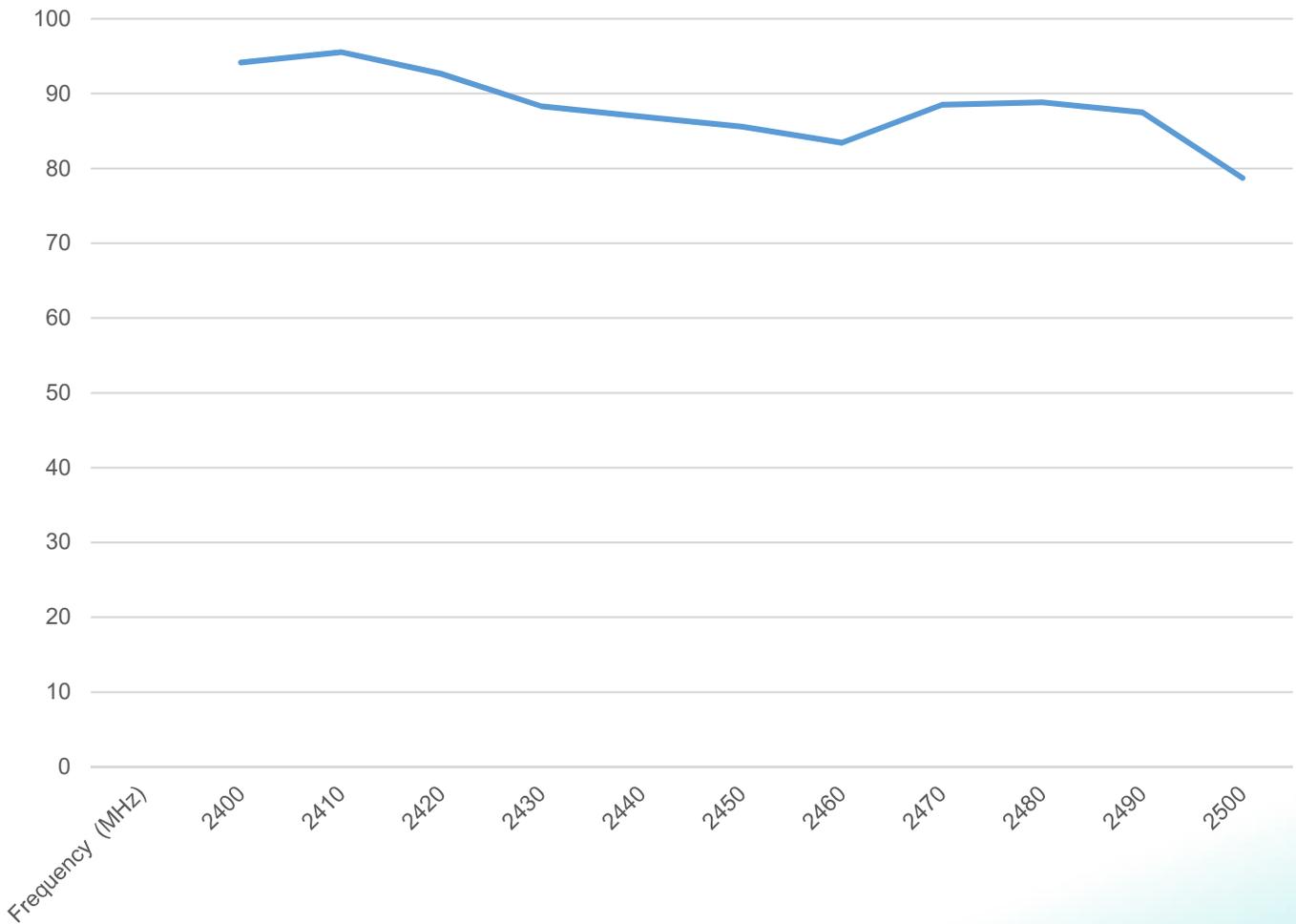
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Efficiency(%)

ICEFIN24NMOHF  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

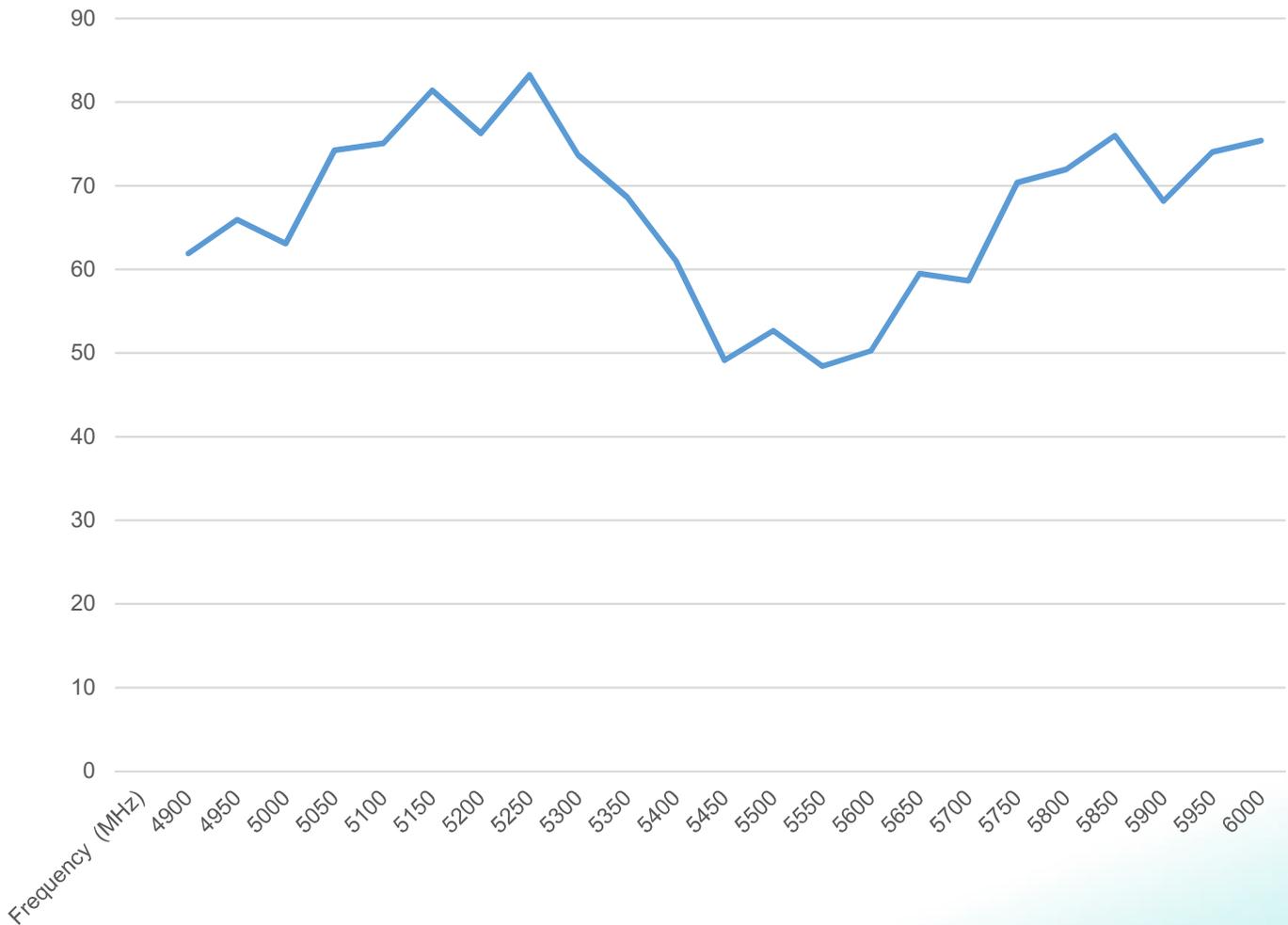
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN49NMOHF  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

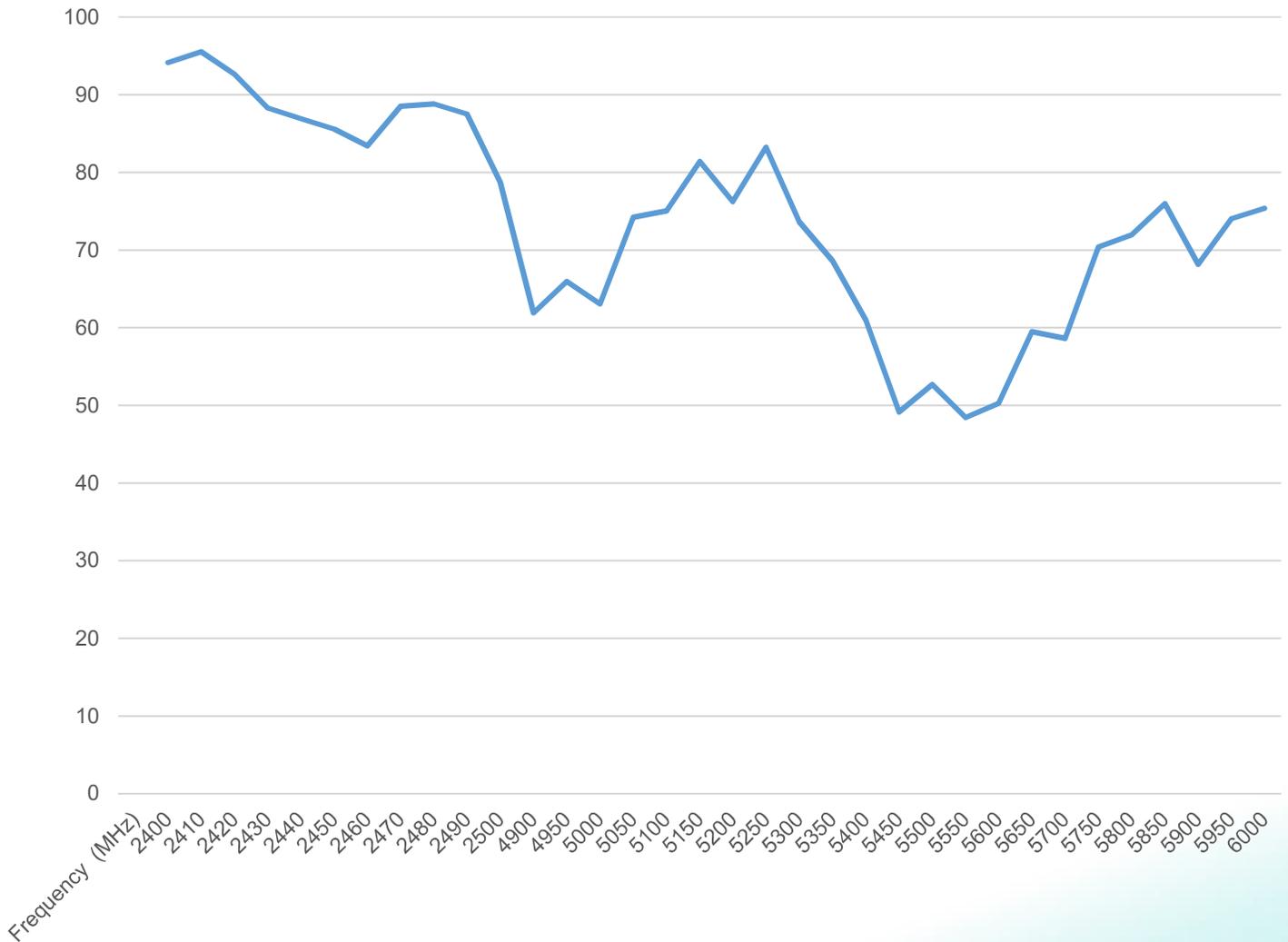
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINWNMOHF  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

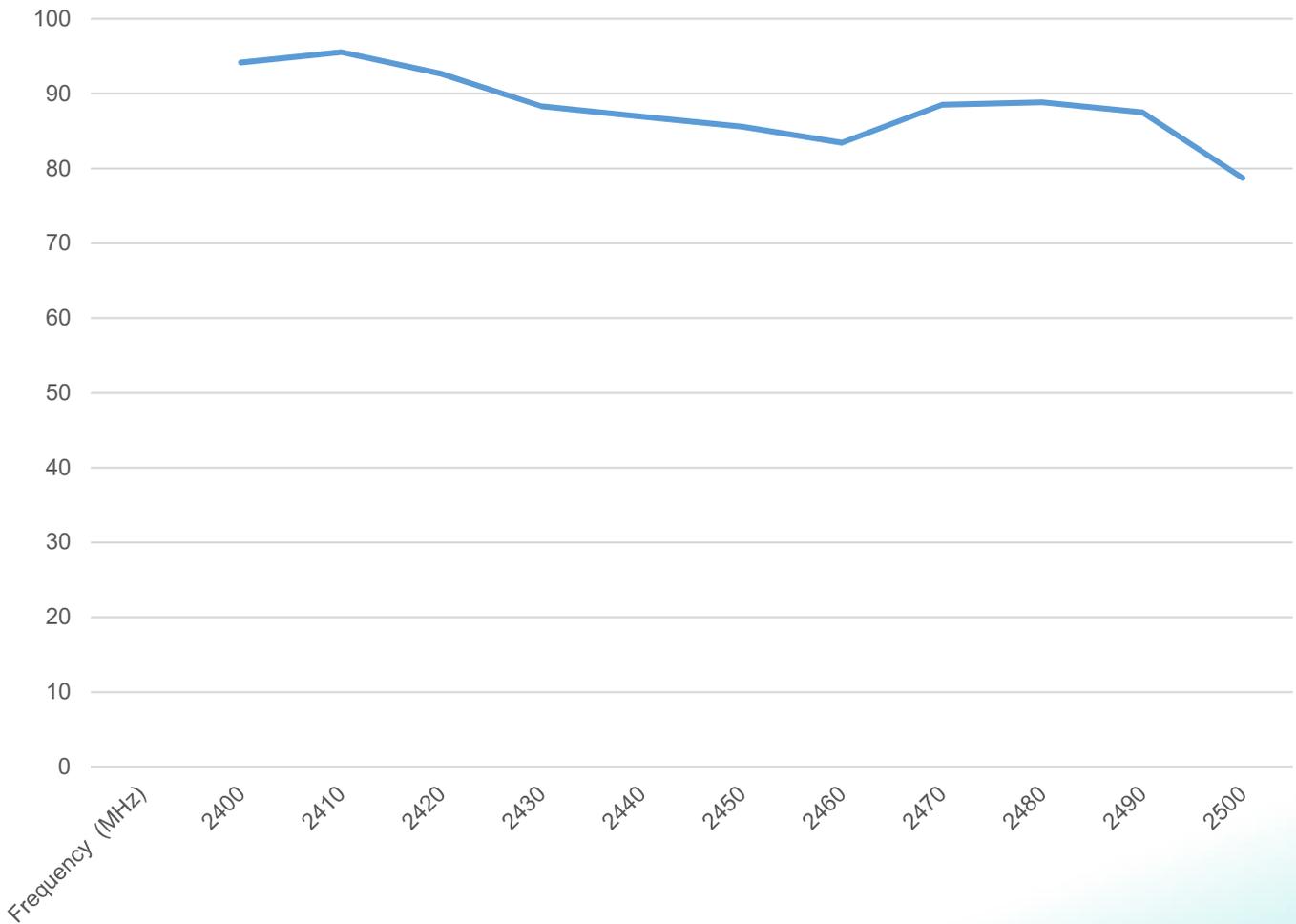
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Efficiency(%)

ICEFIN24DMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

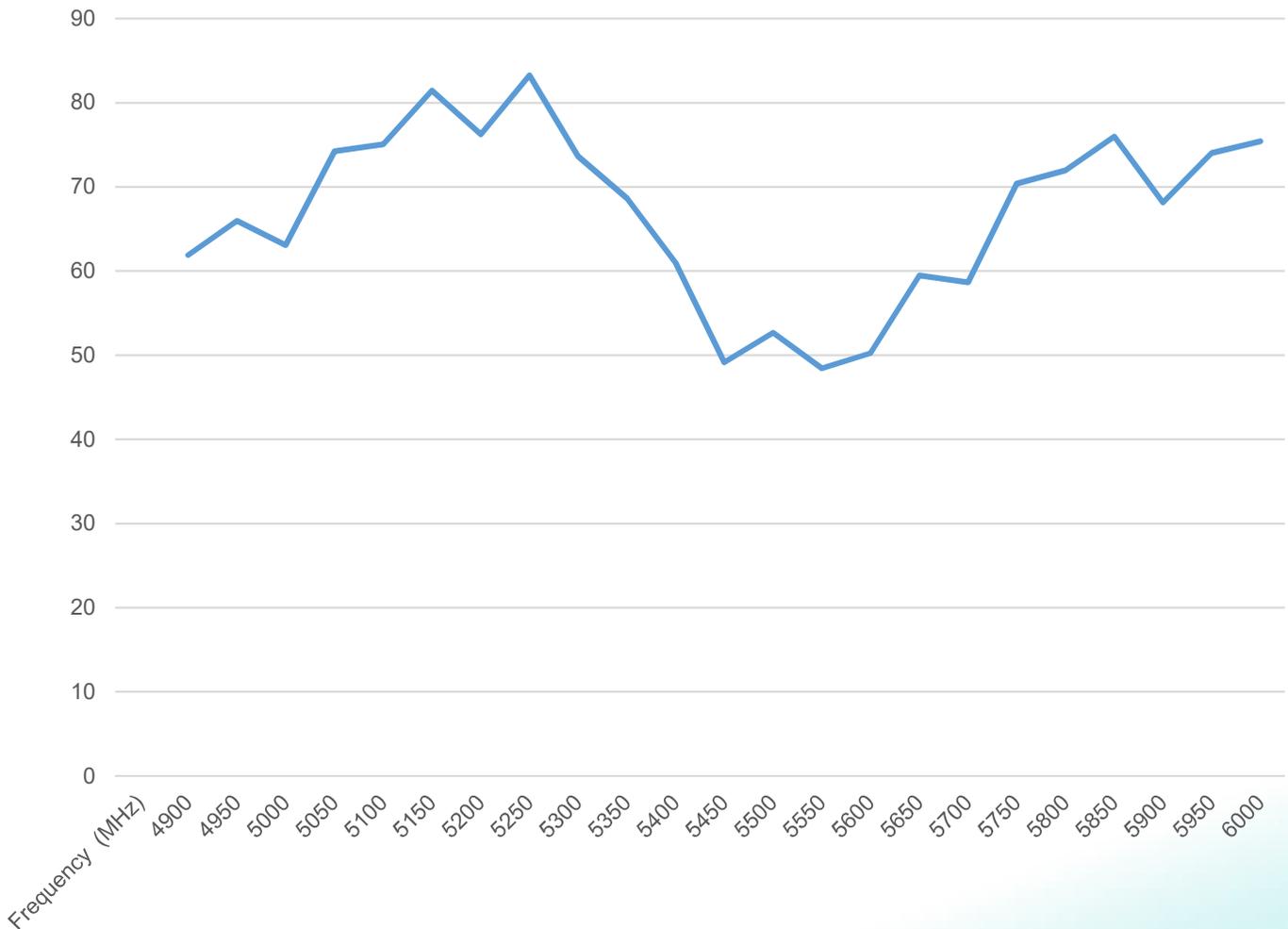
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN49DMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

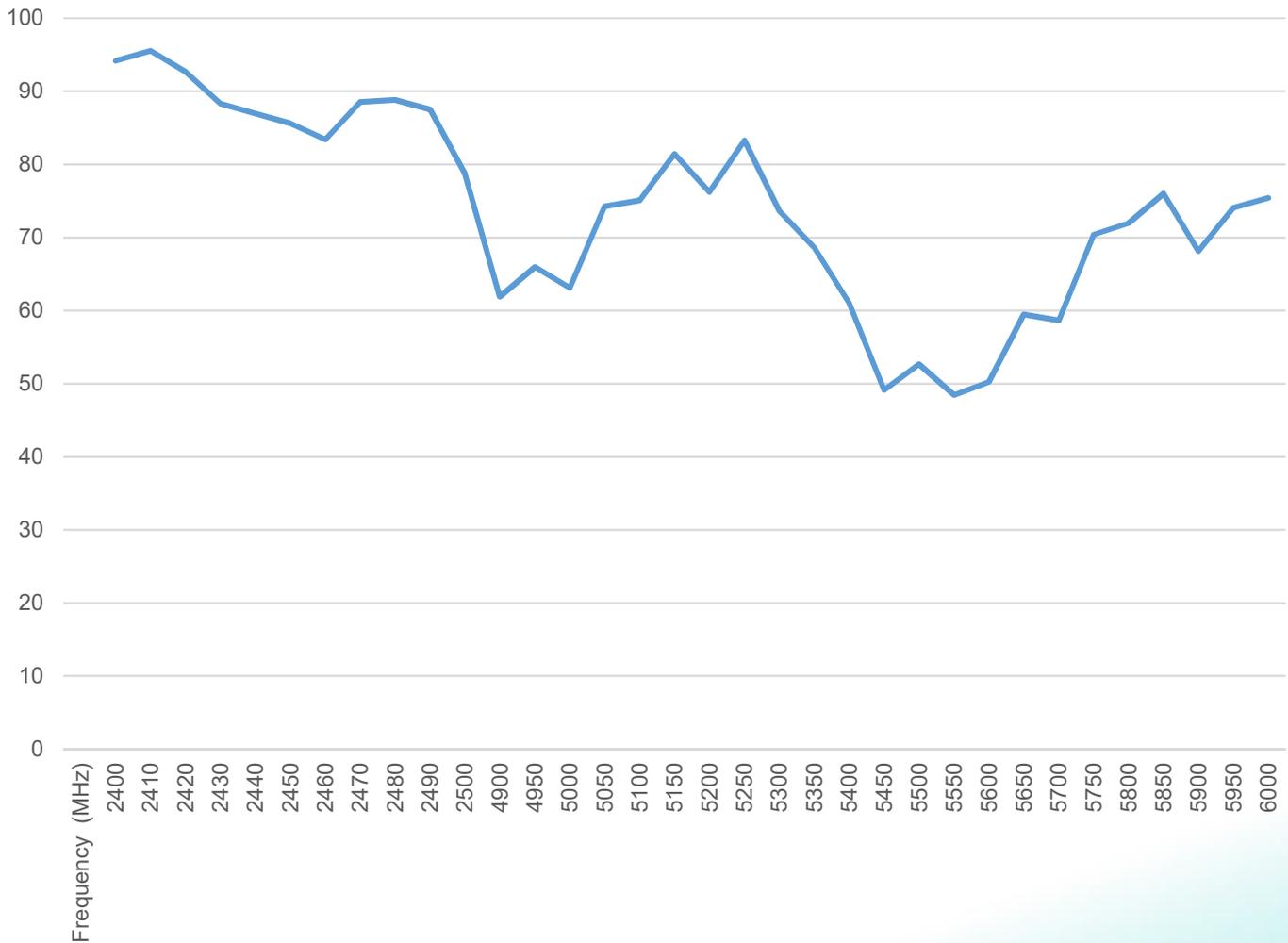
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINWDMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

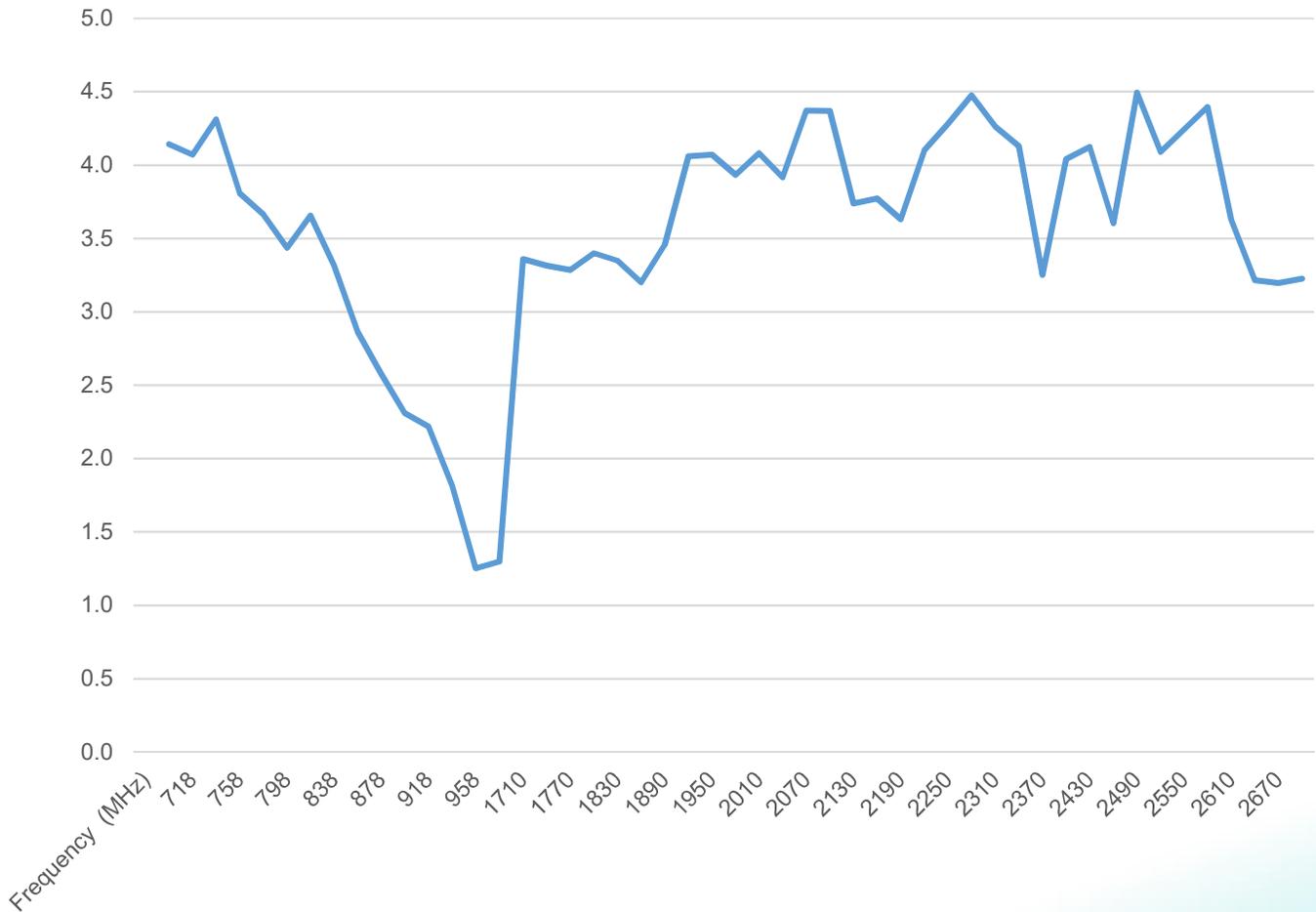
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Peak Gain (dBi)

ICEFINLNMOHF  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

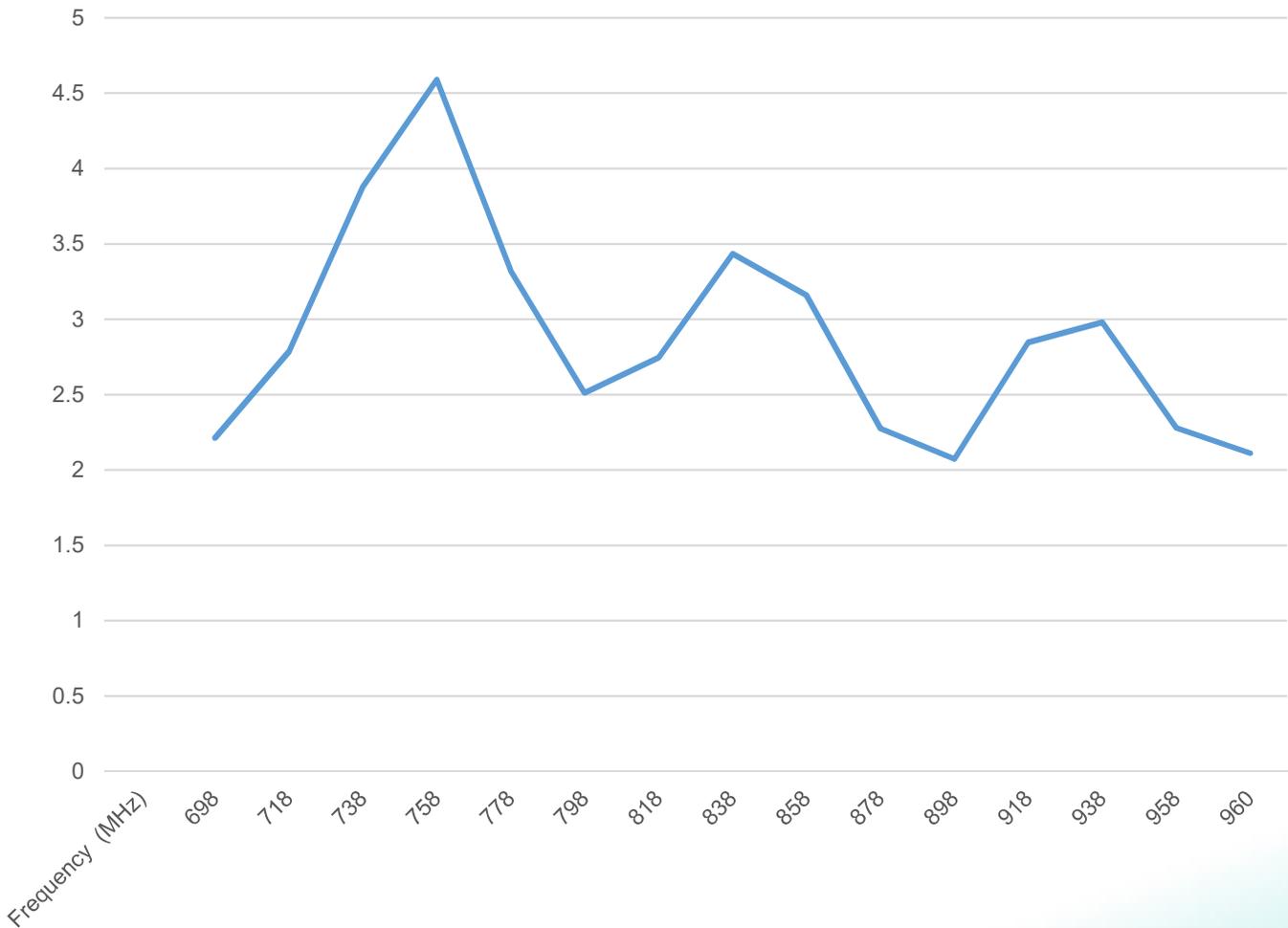
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN698/960NMO  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

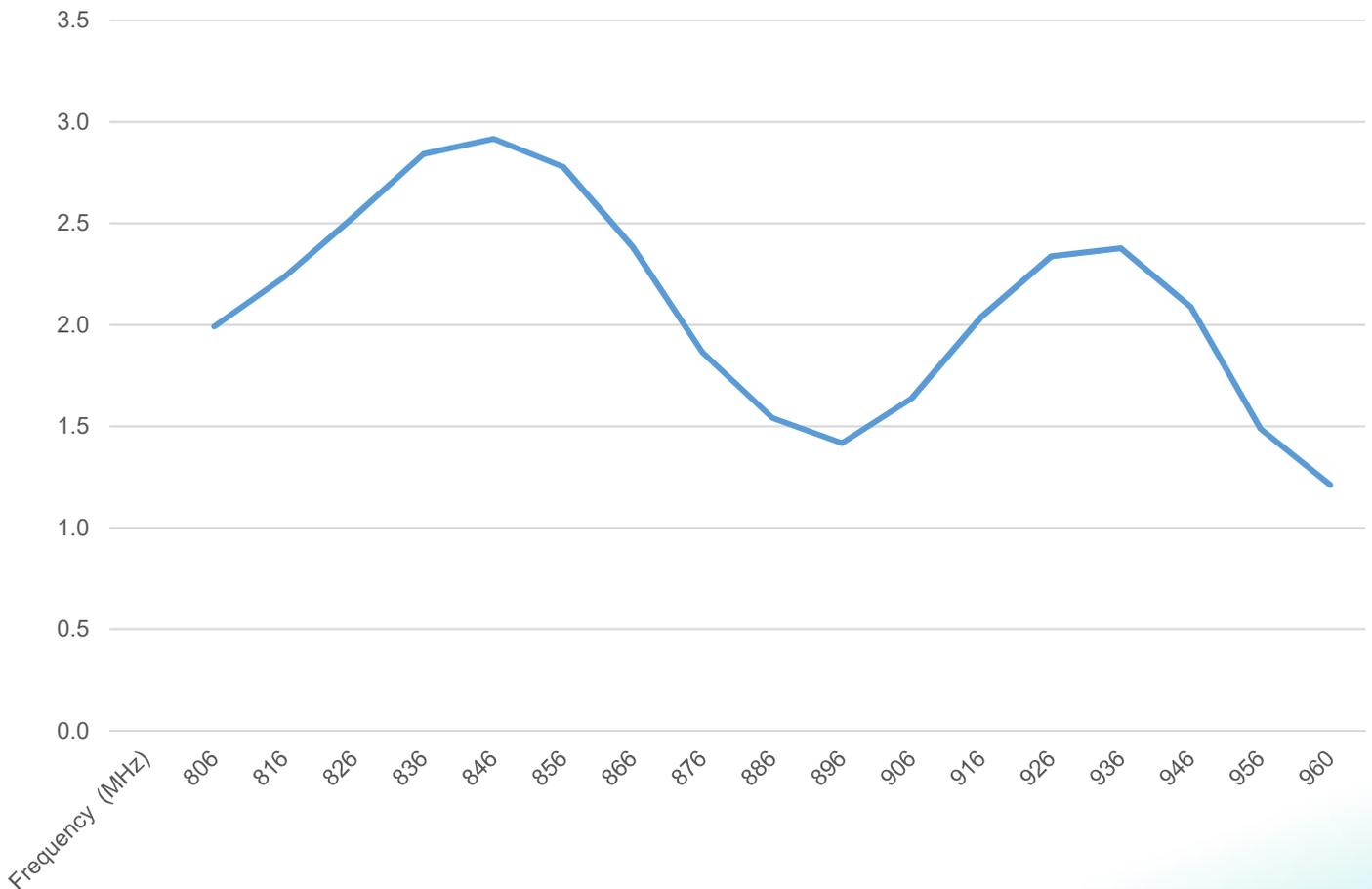
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Peak Gain (dBi)

ICEFIN806NMO  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

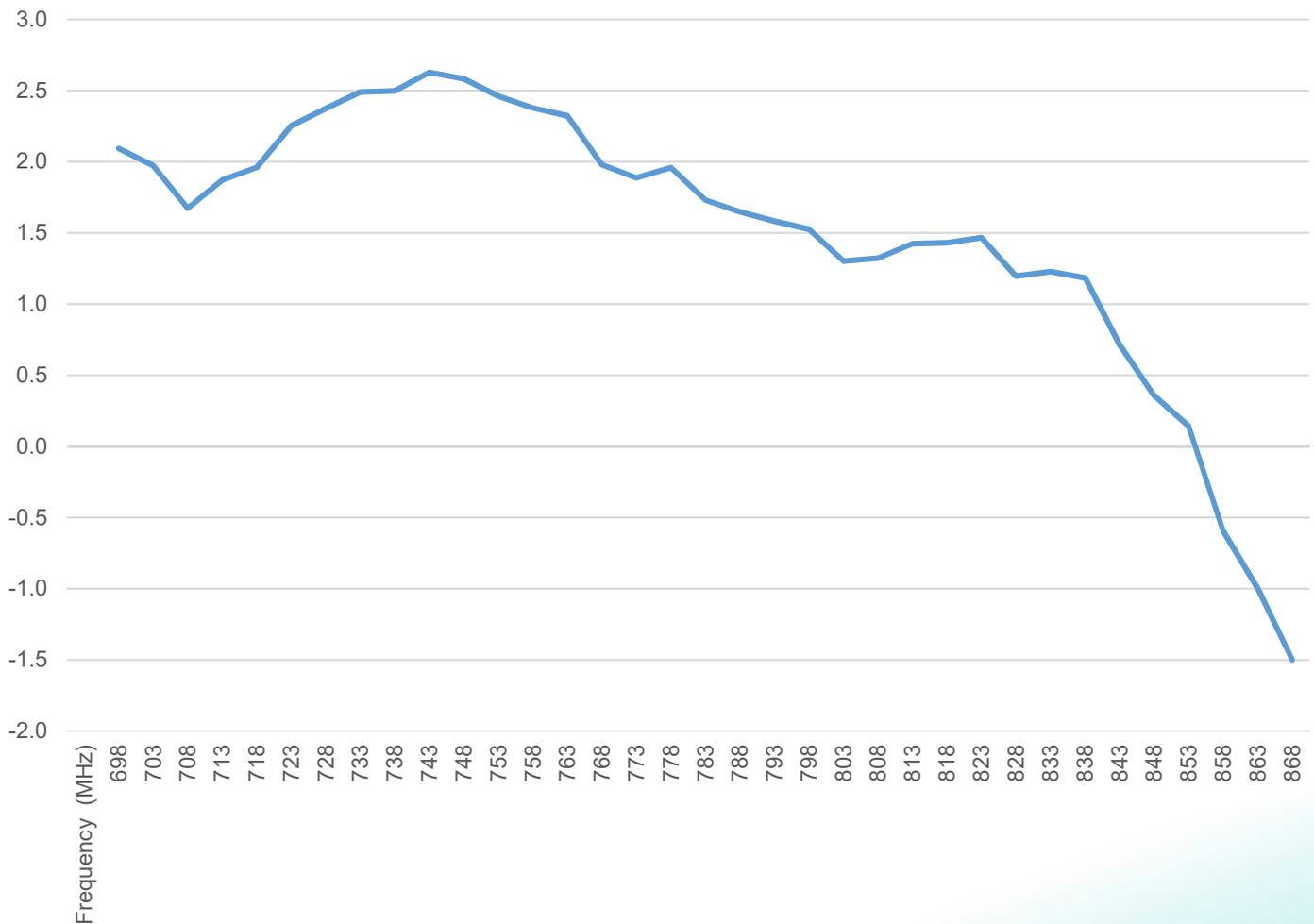
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN698/869DMN  
Peak Gain(dBi)



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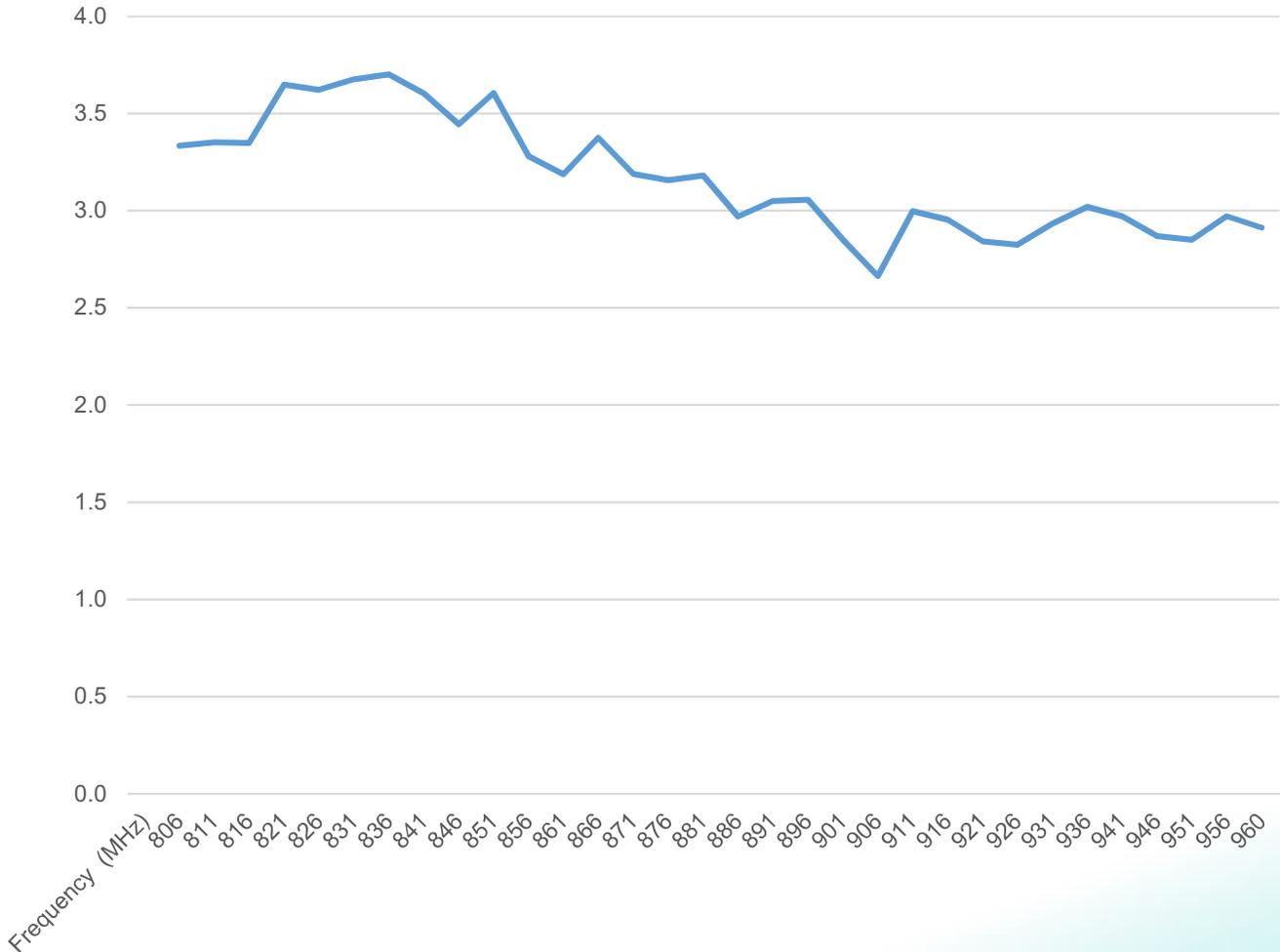
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN806DMN  
Peak Gain(dBi)



Issue: 1743

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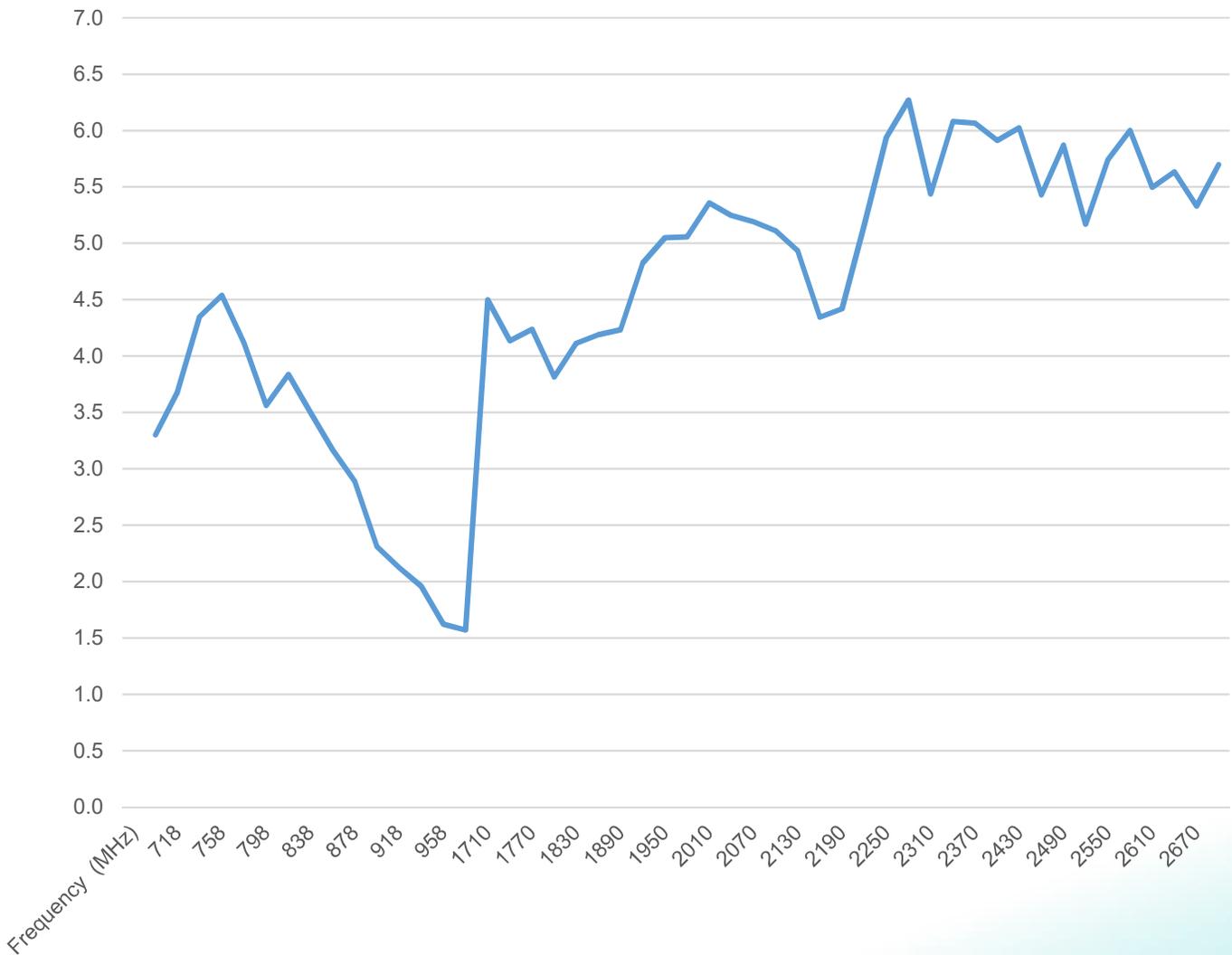
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINLDMN  
Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND  
ANTENNA

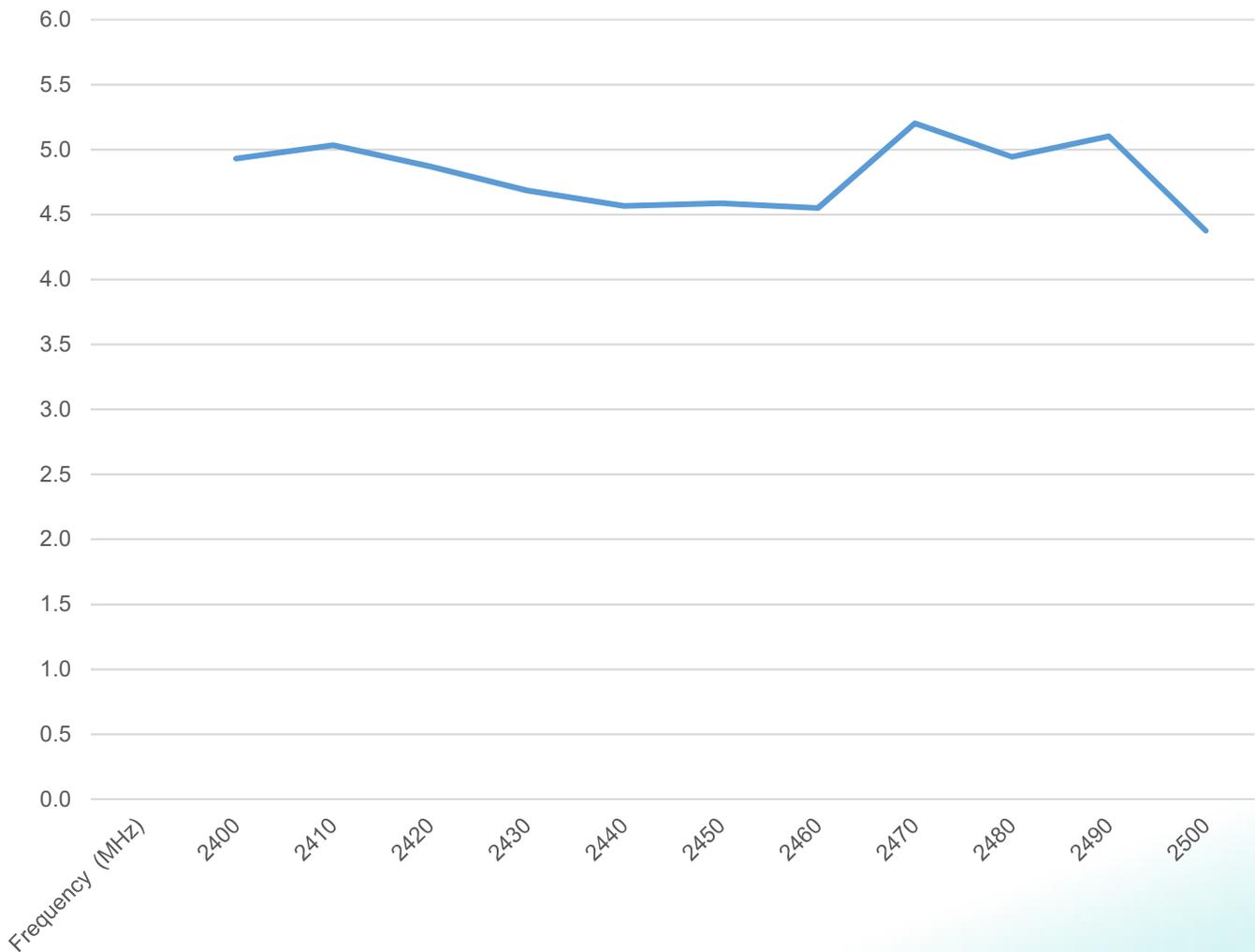
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Peak Gain (dBi)

ICEFIN24NMOHF  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

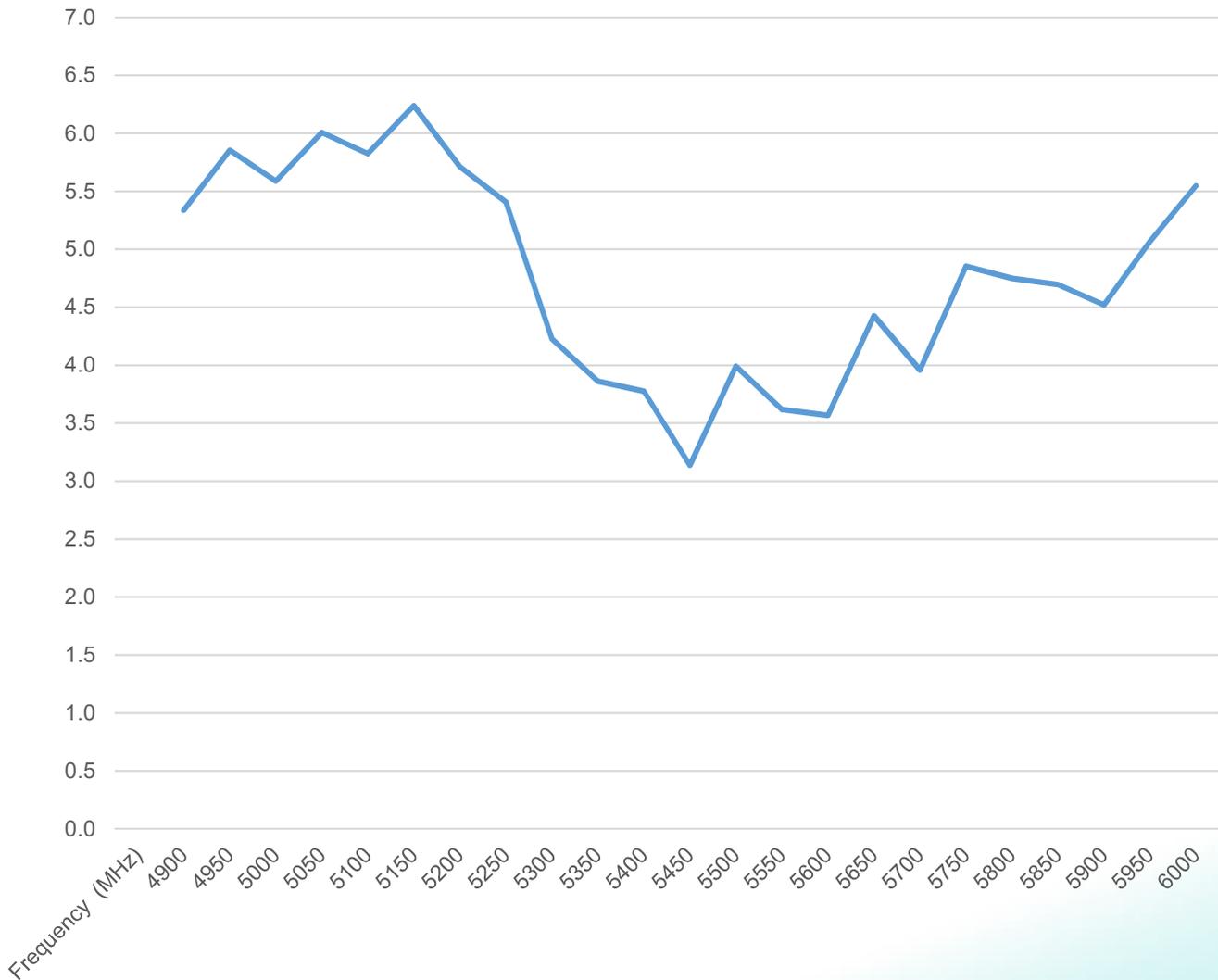
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Peak Gain (dBi)

ICEFIN49NMOHF  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

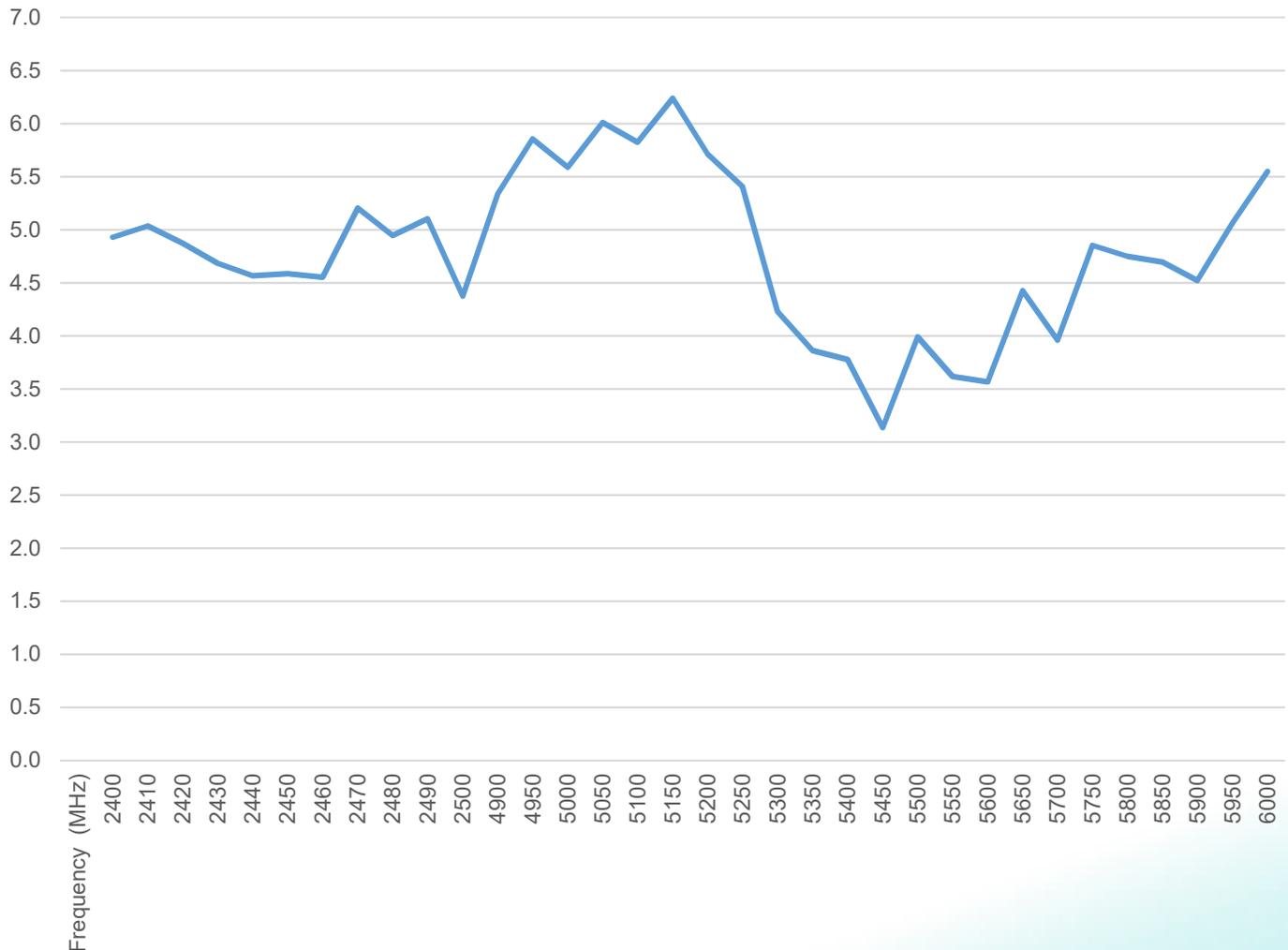
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWNMOHF  
Peak Gain(dBi)



Issue: 1743

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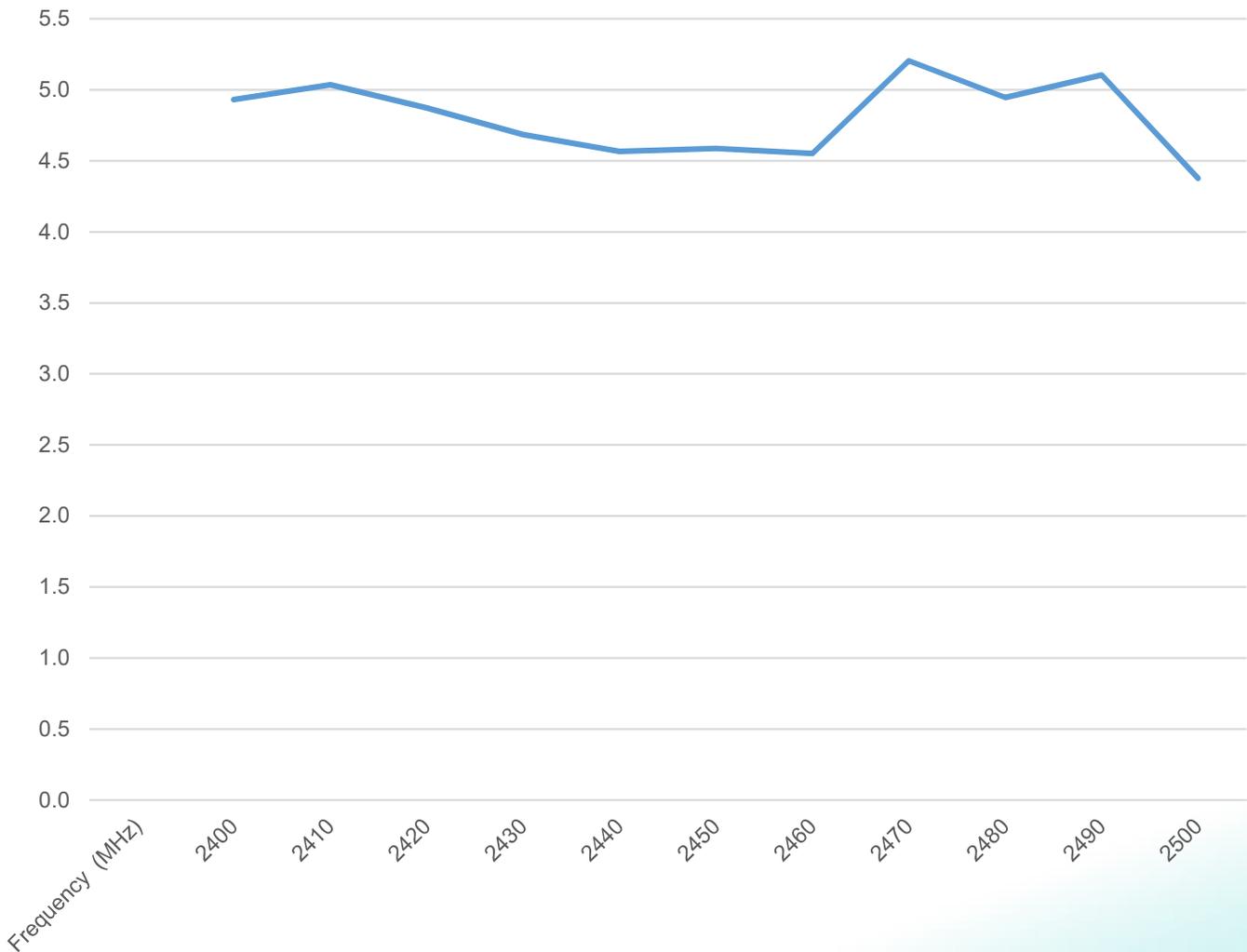
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN24DMN  
Peak Gain(dBi)



Issue: 1743

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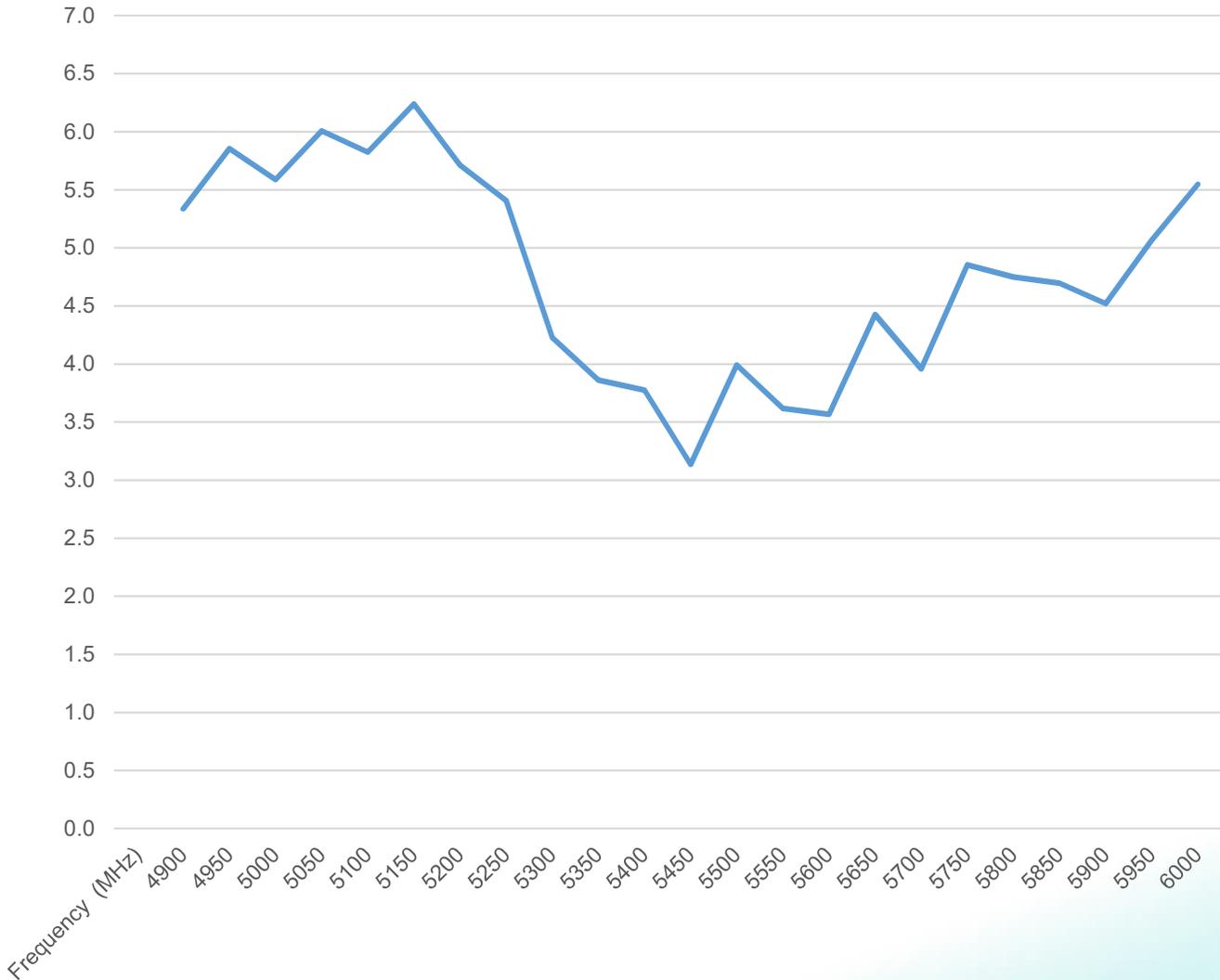
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN49DMN  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

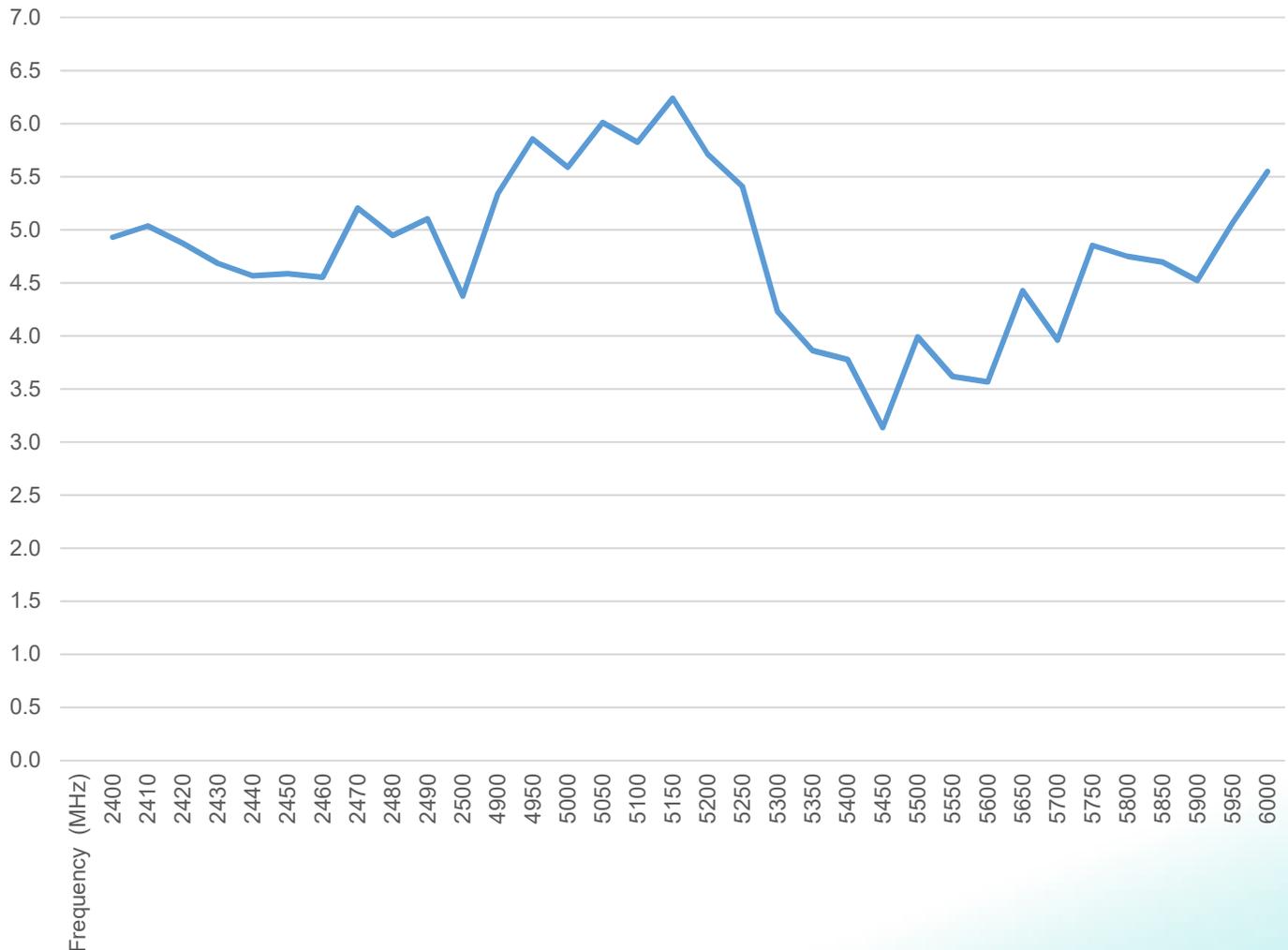
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWDMN  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

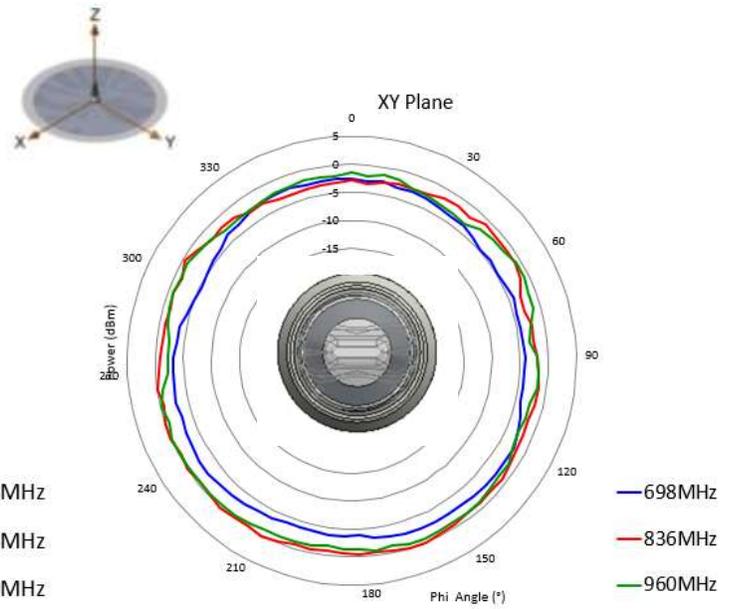
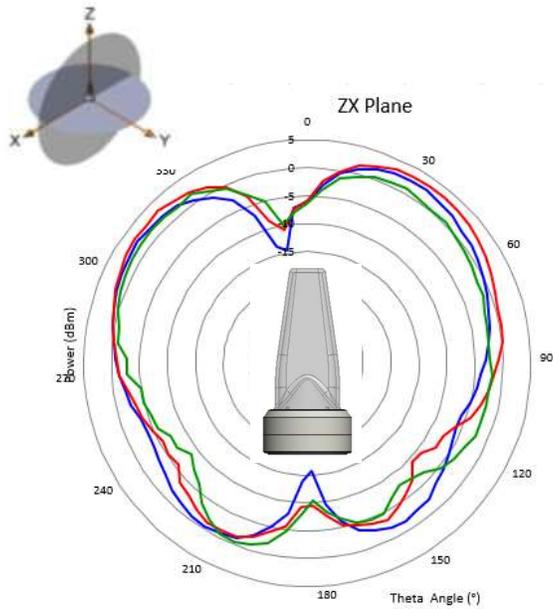
CHARTS

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

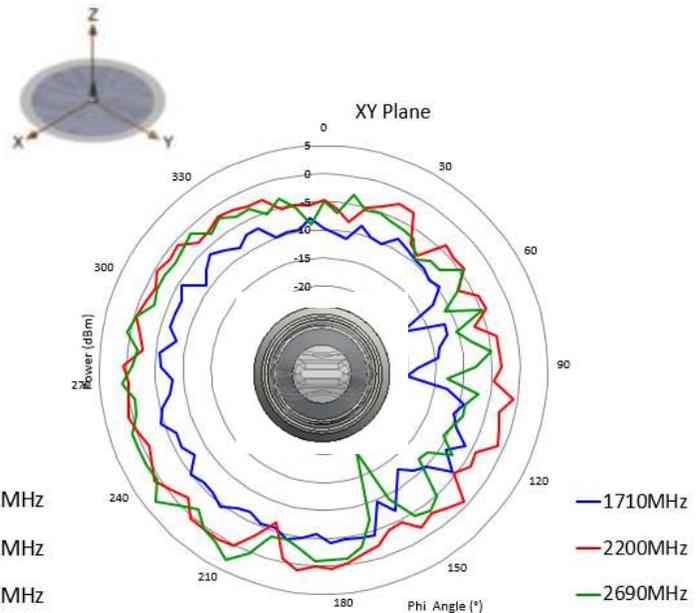
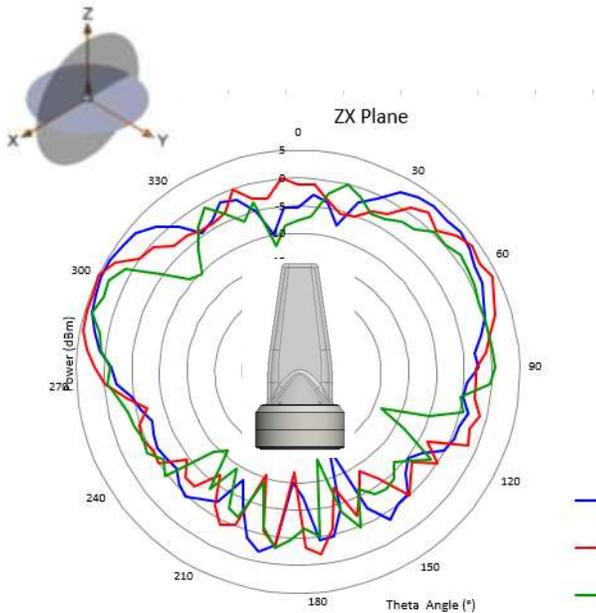
CHARTS

Free Space Radiation Pattern

ICEFINLNMOHF

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

**PART NUMBER: ICEFINXXX**

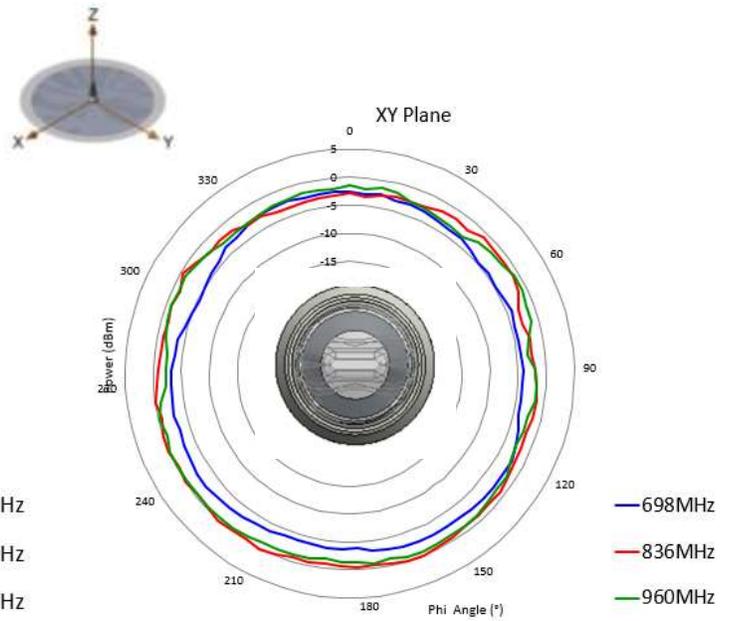
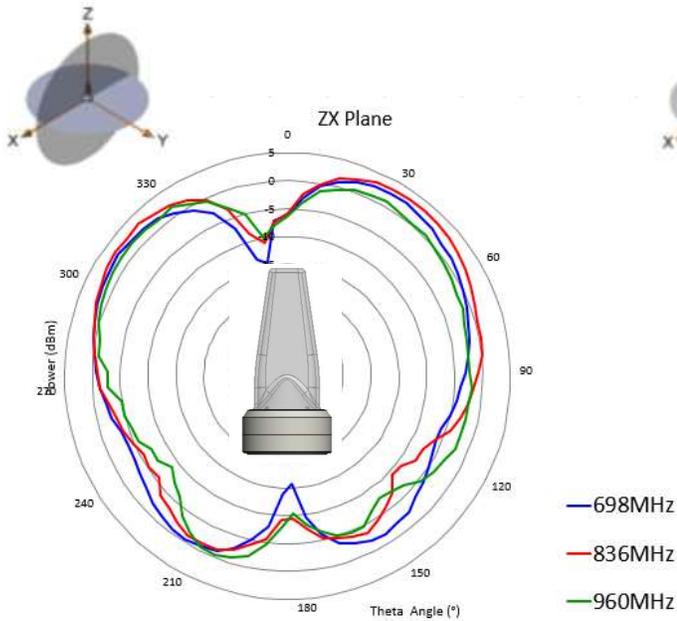
**CHARTS**

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

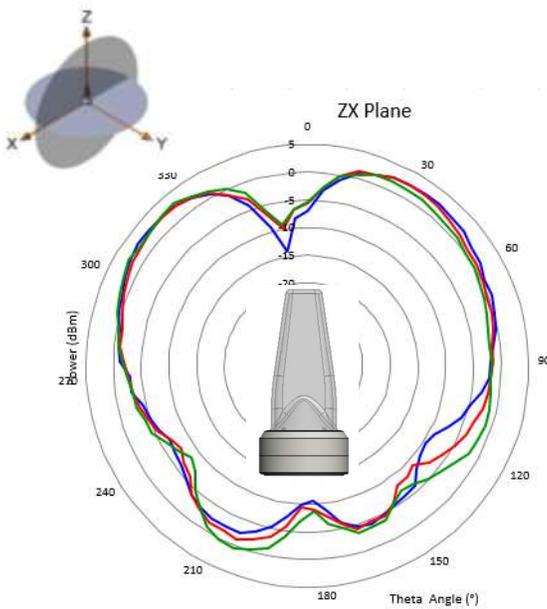
CHARTS

Free Space Radiation Pattern

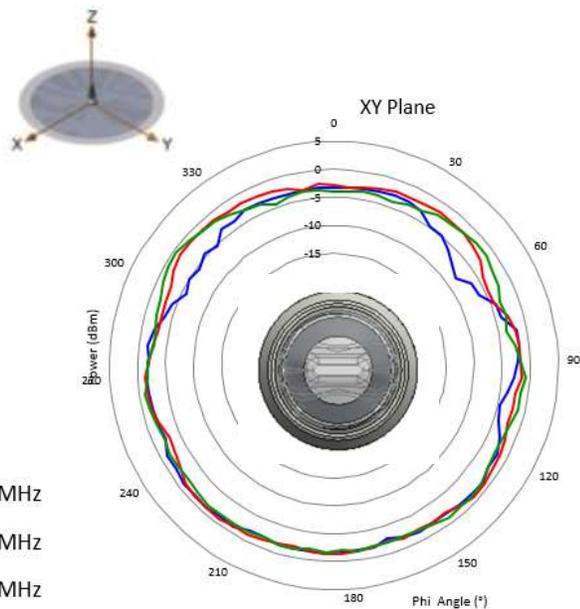
ICEFIN806NMO

Elevation Plane

Horizontal Plane



— 806MHz  
— 889MHz  
— 960MHz



— 806MHz  
— 885MHz  
— 960MHz

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

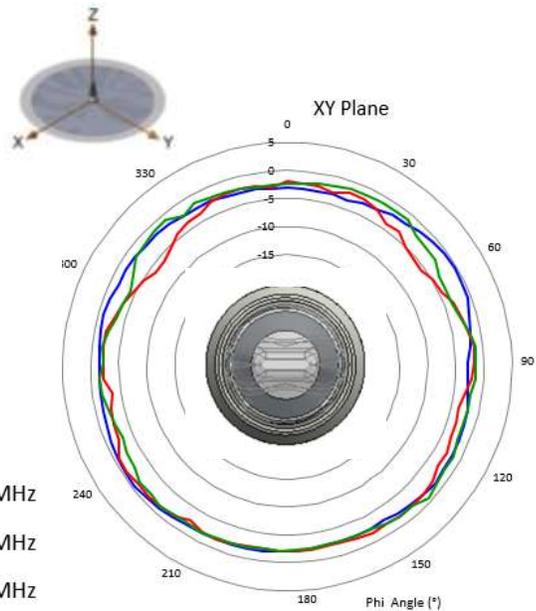
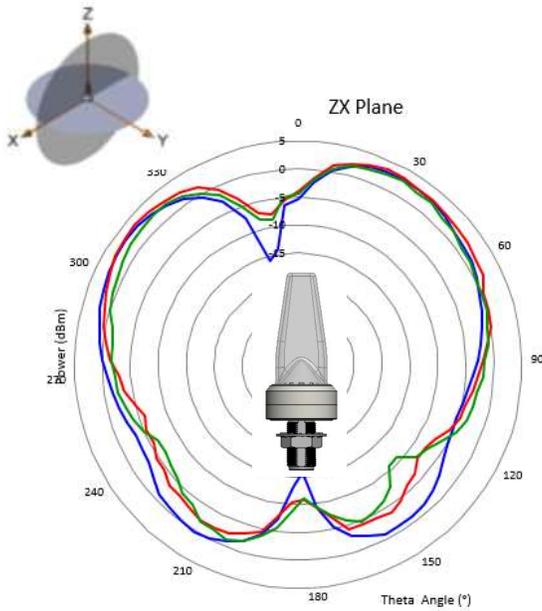
CHARTS

Free Space Radiation Pattern

ICEFIN698/869DMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

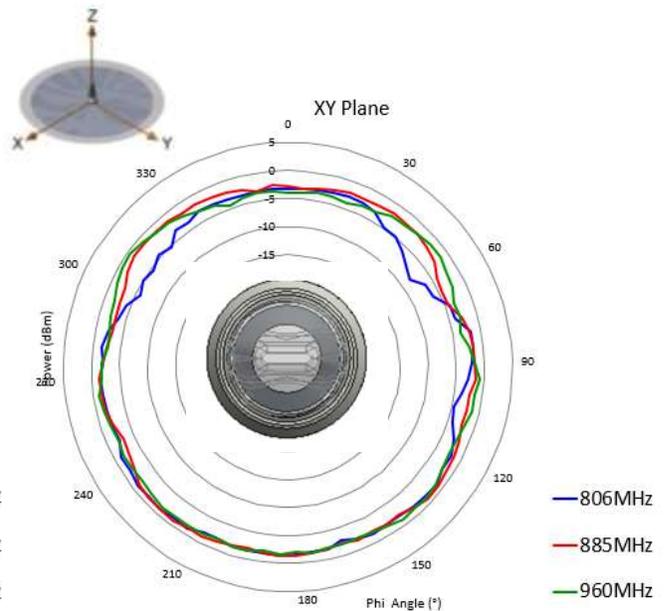
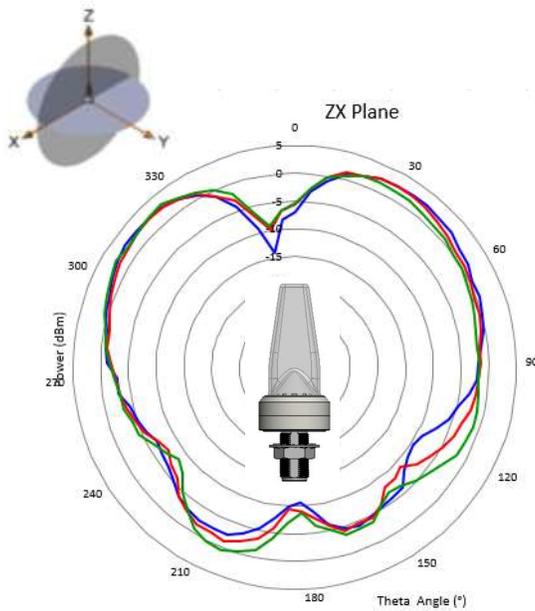
CHARTS

Free Space Radiation Pattern

ICEFIN806DMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

**PART NUMBER: ICEFINXXX**

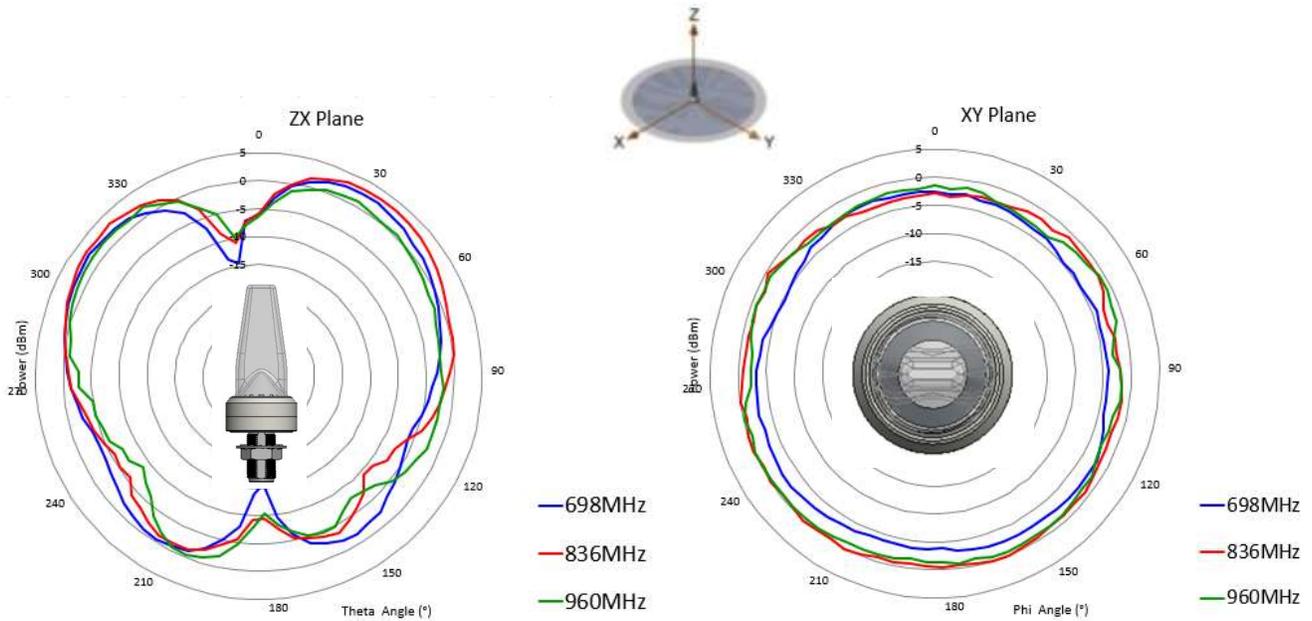
**CHARTS**

Free Space Radiation Pattern

ICEFINLDMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

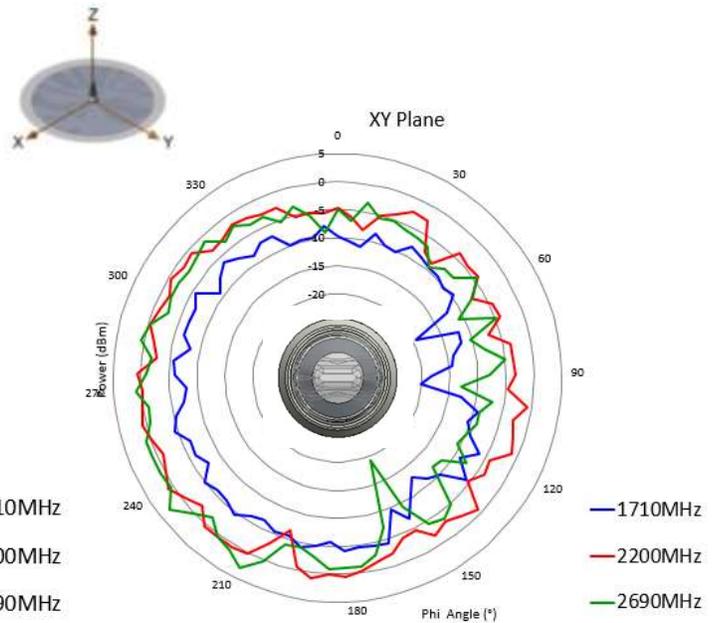
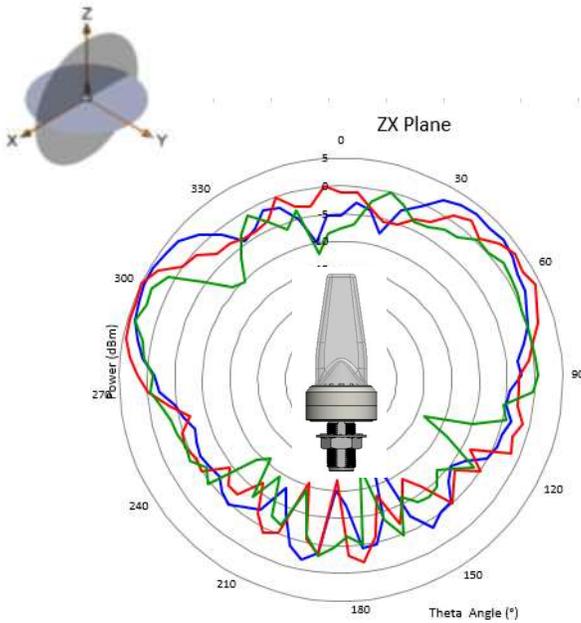
CHARTS

Free Space Radiation Pattern

ICEFINLDMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

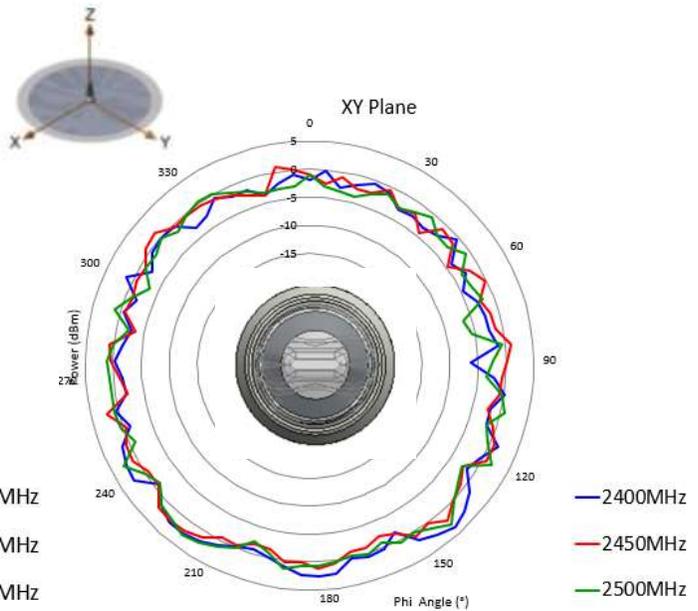
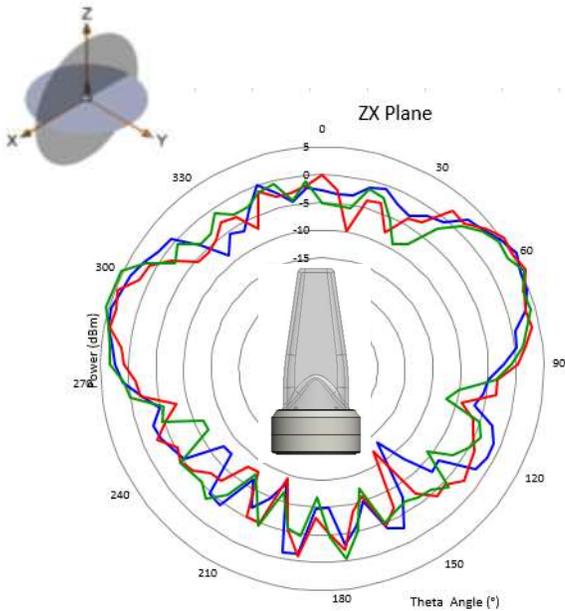
CHARTS

Free Space Radiation Pattern

ICEFIN24NMOHF

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

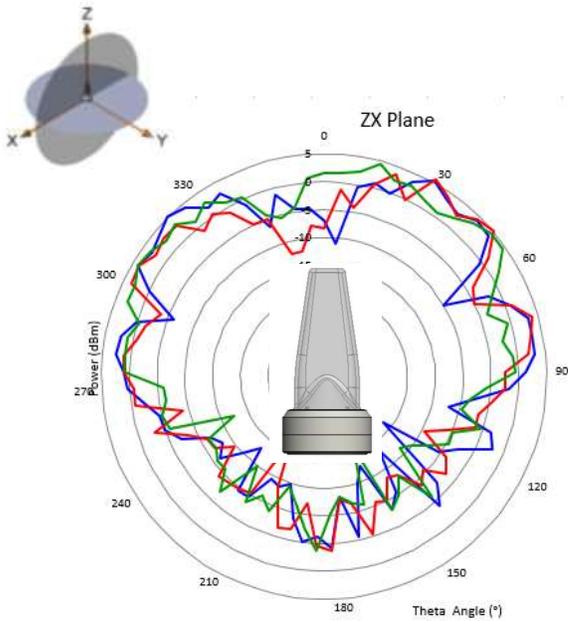
CHARTS

Free Space Radiation Pattern

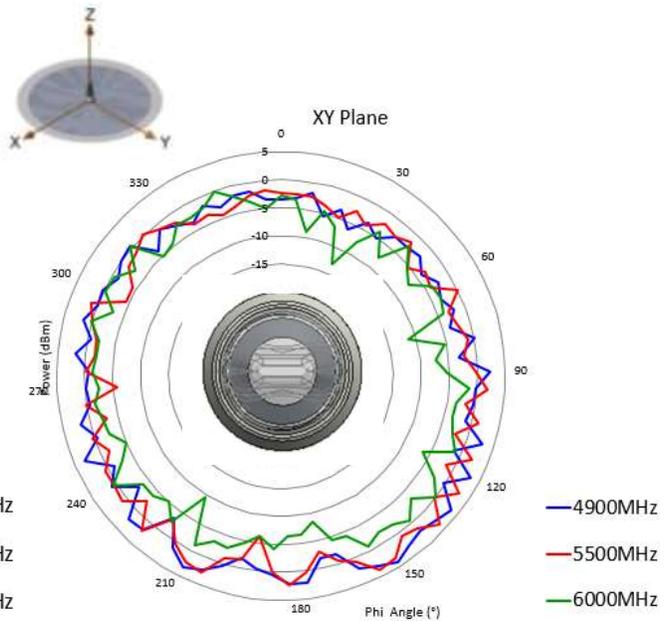
ICEFIN49NMOHF

Elevation Plane

Horizontal Plane



— 4900MHz  
— 5500MHz  
— 6000MHz



— 4900MHz  
— 5500MHz  
— 6000MHz

Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

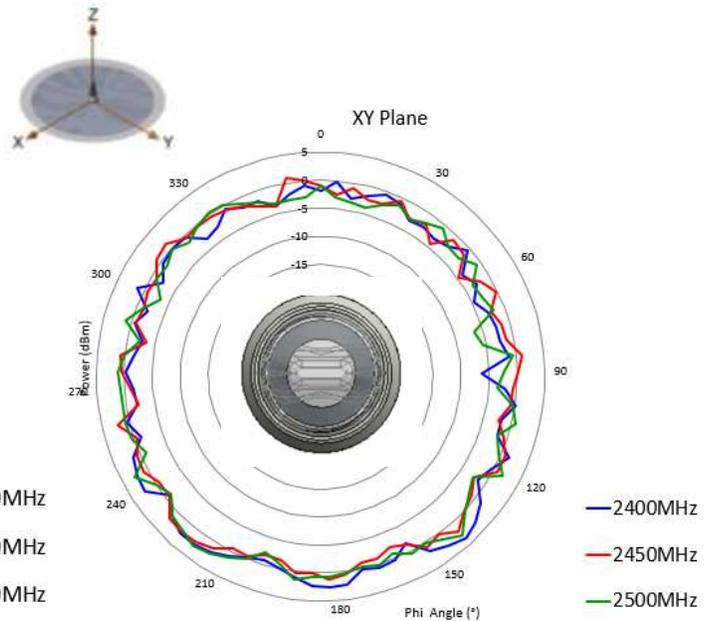
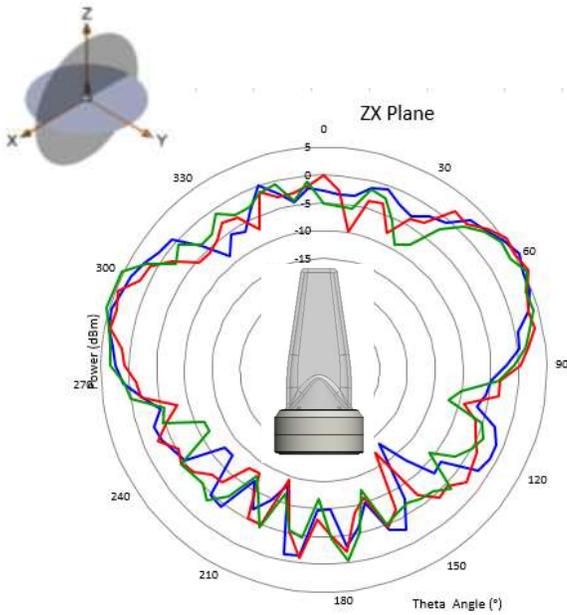
CHARTS

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

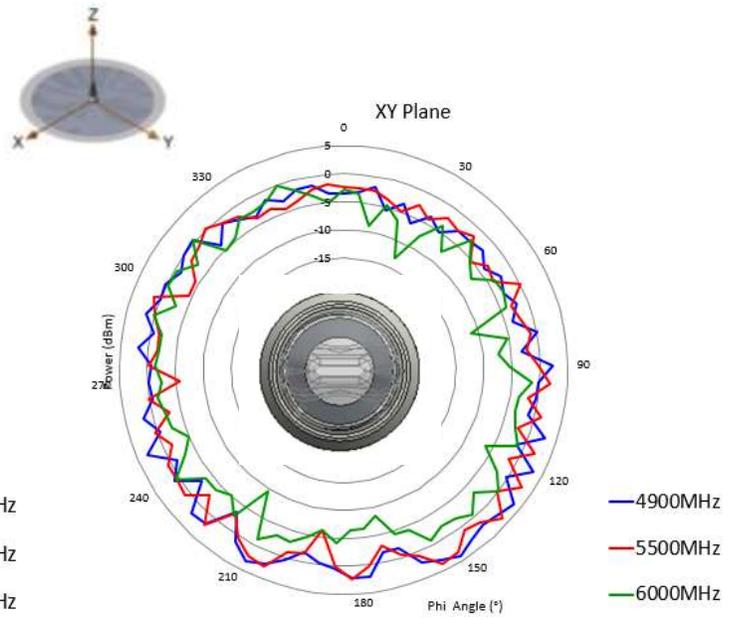
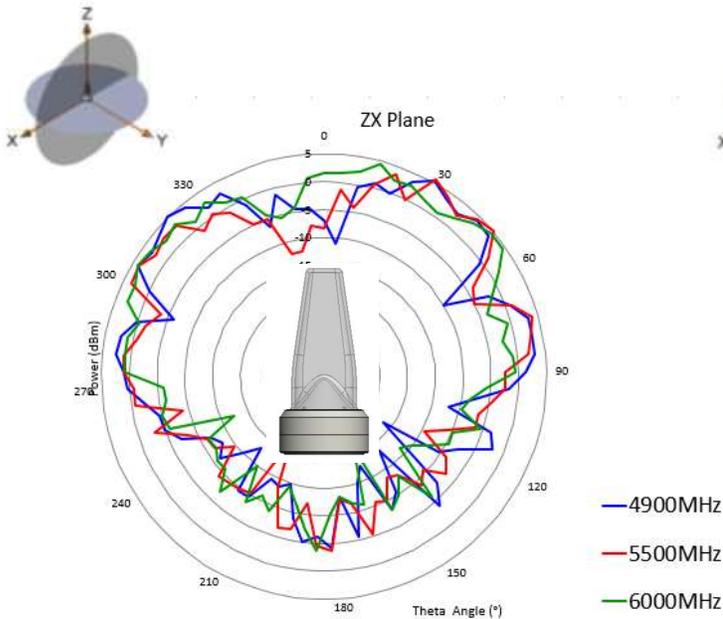
CHARTS

Free Space Radiation Pattern

ICEFINWNMOHF

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

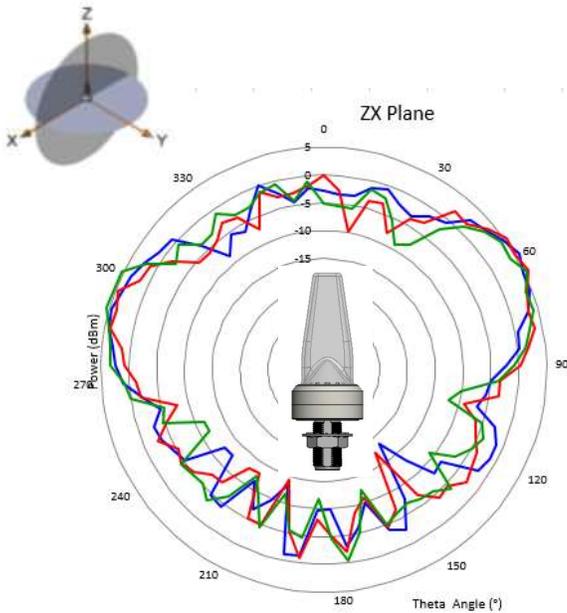
CHARTS

Free Space Radiation Pattern

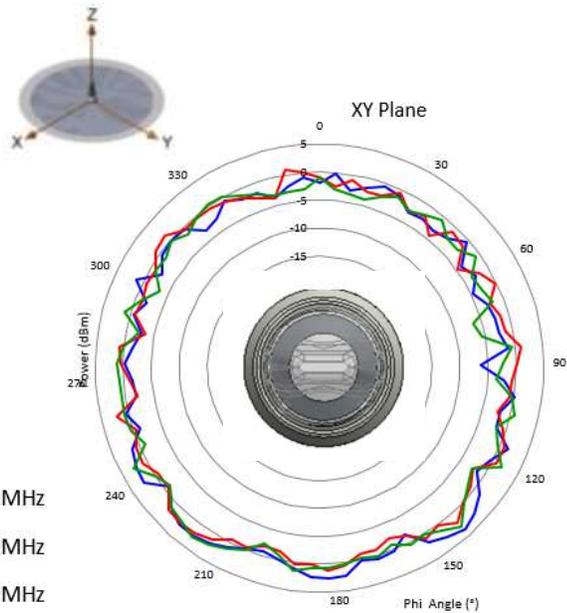
ICEFIN24DMN

Elevation Plane

Horizontal Plane



— 2400MHz  
— 2450MHz  
— 2500MHz



— 2400MHz  
— 2450MHz  
— 2500MHz

Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

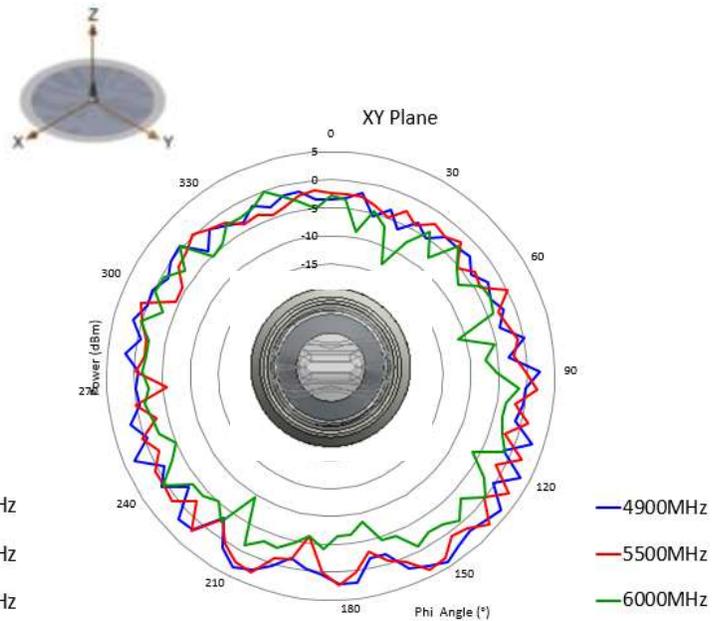
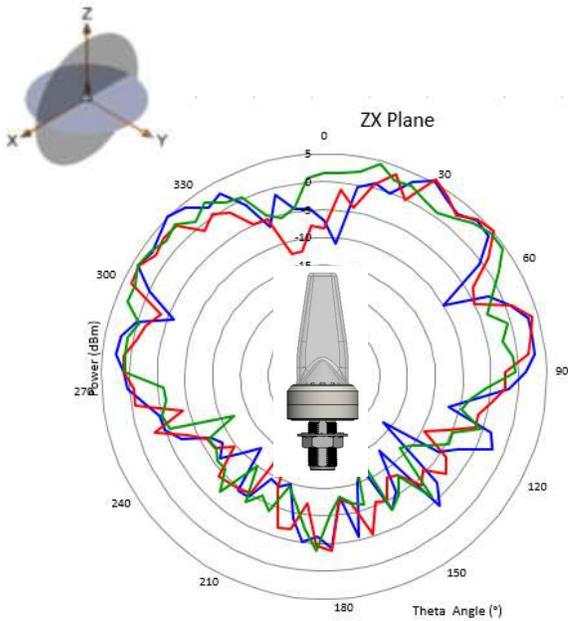
CHARTS

Free Space Radiation Pattern

ICEFIN49DMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

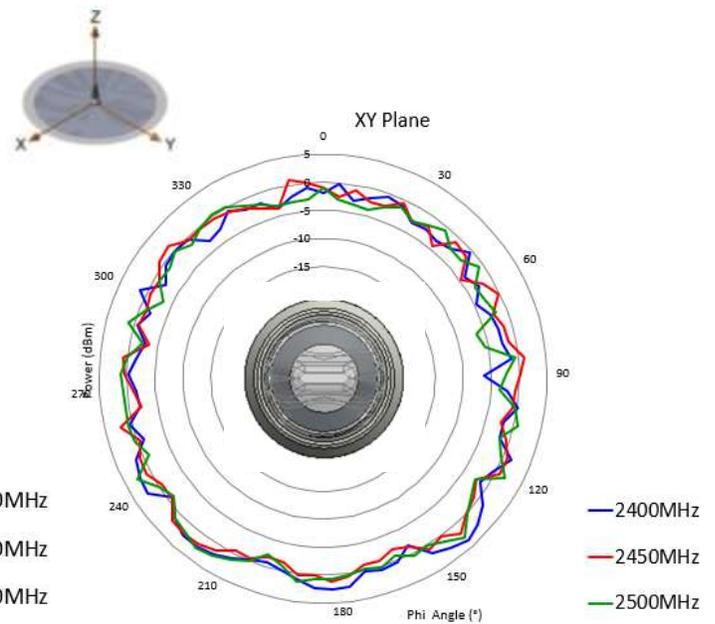
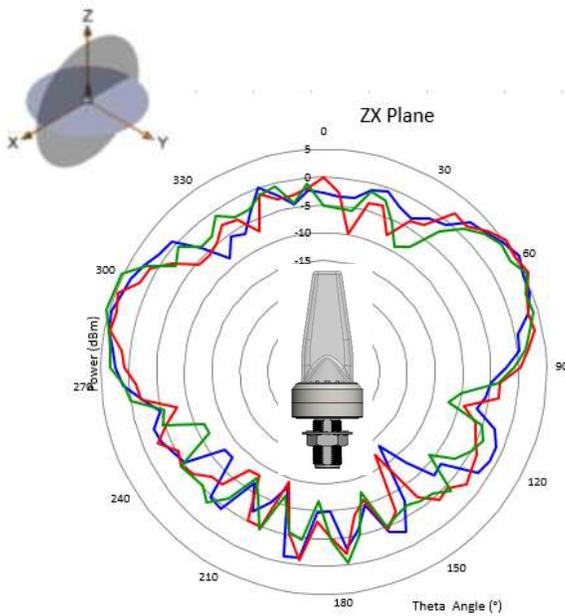
CHARTS

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**

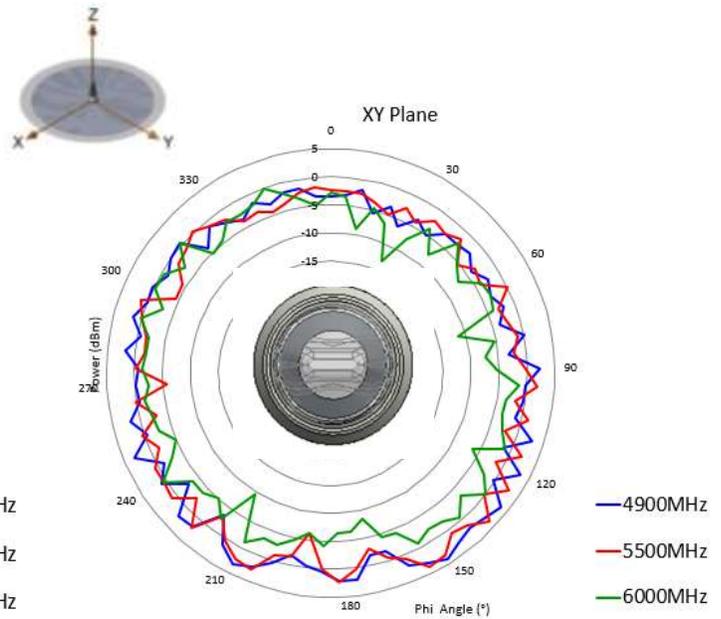
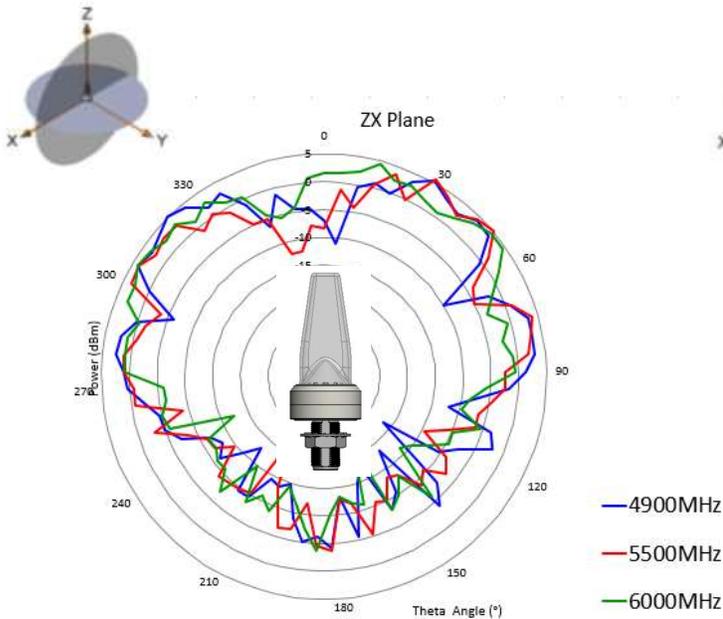
**CHARTS**

Free Space Radiation Pattern

ICEFINWDMN

Elevation Plane

Horizontal Plane



Issue: 1743

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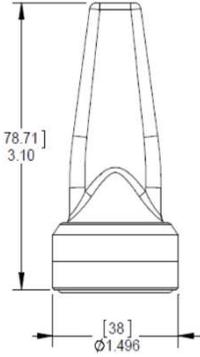
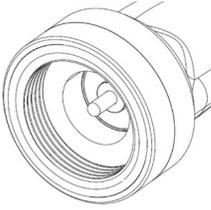
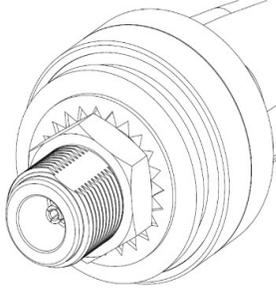
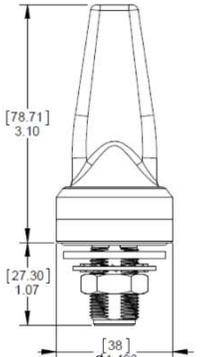
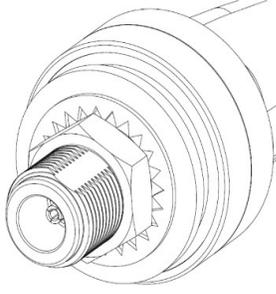
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Description: LOW PROFILE MULTIBAND ANTENNA

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                 |   | <br>DMN<br>Direct Mount + N Female<br>Connector<br>(Screw 5/18-24 UNEF 2A) |                                  |
| 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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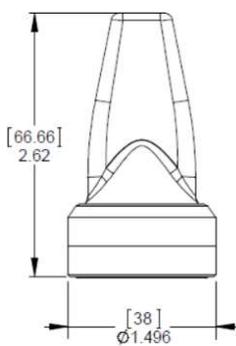
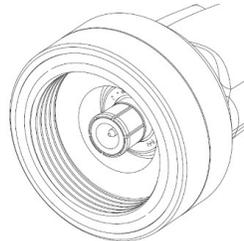
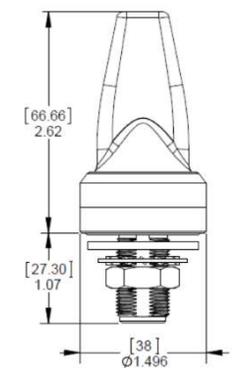
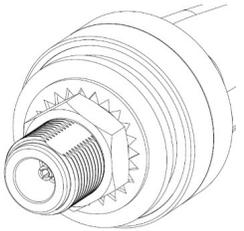


Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

**PACKAGING**

| Project       | Color   | Frequency                    | Size  | Fixing System Connector   | Packaging                                      |
|---------------|---------|------------------------------|---|---|--|
| ICEFIN24NMOHF | Clarity | 2400-2500MHz                 |   | <br>NMOHF<br>NMO + HF Connector                                     | <b>16 pcs / Tray</b><br><b>32 pcs / Carton</b> |
| ICEFIN49NMOHF | Clarity | 4900-6000MHz                 |   |   |  |
| ICEFINWNMOHF  | Clarity | 2400-2500MHz<br>4900-6000MHz |   |   |  |
| ICEFIN24DMN   | Clarity | 2400-2500MHz                 |  | <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> |
| ICEFINWDMN    | Clarity | 2400-2500MHz<br>4900-6000MHz |   |   | <b>96 pcs / Carton</b>                         |

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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