

Description: LOW PROFILE MULTIBAND ANTENNA

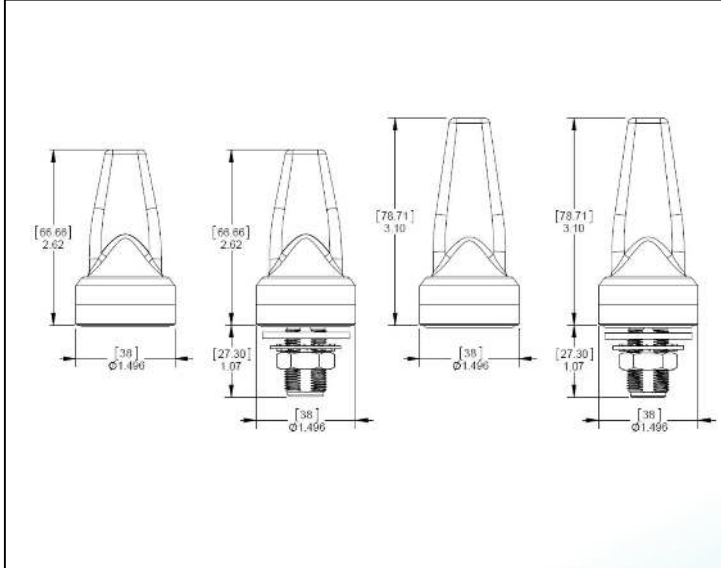
Series: IceFin

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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For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel:1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998

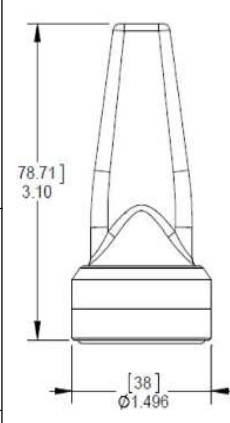
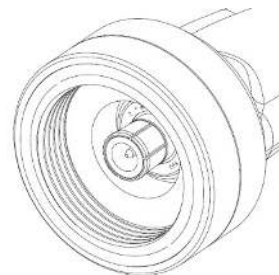
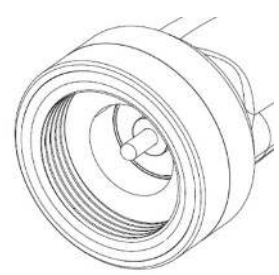
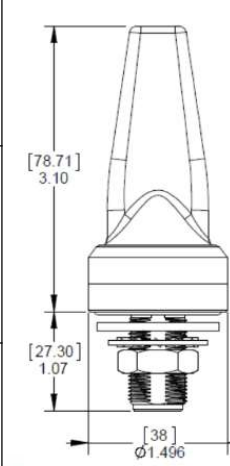
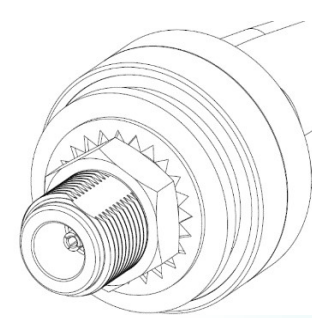


Description: LOW PROFILE MULTIBAND ANTENNA

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 1710-2700MHz		 NMOHF NMO + HF Connector	
ICEFIN698/960NMO	Clarity	750-960MHz		 NMO Pogo Pin Connector	
ICEFIN806NMO	Clarity	806-960MHz			
ICEFIN698/869DMN	Clarity	698-869MHz		 DMN Direct Mount + N Female Connector (Screw 5/18-24 UNEF 2A)	
ICEFIN806DMN	Clarity	806-960MHz			
ICEFINLDMN	Clarity	698-960MHz 1710-2700MHz			

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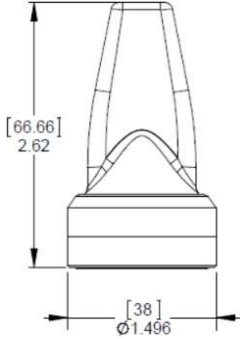
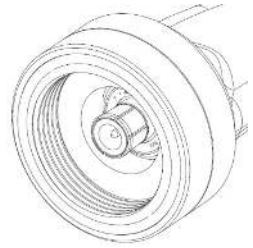
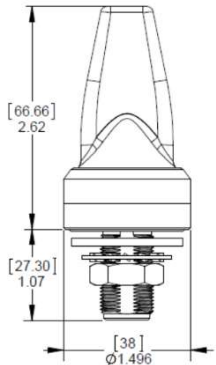
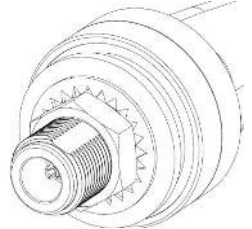


Description: LOW PROFILE MULTIBAND ANTENNA

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		 NMOHF NMO + HF Connector
ICEFIN49NMOHF	Clarity	4900-6000MHz		
ICEFINWNMOHF	Clarity	2400-2500MHz 4900-6000MHz		
ICEFIN24DMN	Clarity	2400-2500MHz		 Direct Mount N Female Connector (Screw 5/18-24 UNEF 2A)
ICEFIN49DMN	Clarity	4900-6000MHz		
ICEFINWDMN	Clarity	2400-2500MHz 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 ANTENNA

Series: IceFin

**PART NUMBER: ICEFINXXX**

**ELECTRICAL SPECIFICATIONS**

Project	Frequency	VSWR	Peak Gain	Efficiency	Power Handling
ICEFINLNMOHF	698-960MHz 1710-2700MHz	3.2:1(0.698-0.96GHz) 2:1(1.71-2.7GHz)	2.98dBi(0.698-0.96GHz) 3.82dBi(1.71-2.69GHz)	75% 61%	20W(100% duty cycle)  30W(50% duty cycle)
ICEFIN698/960NMO	750-960MHz	2.2:1	4.5dBi	65%	30W(100% duty cycle)  40W(50% duty cycle)
ICEFIN806NMO	806-960MHz	2.2:1	2.91dBi	63%	30W(100% duty cycle)  40W(50% duty cycle)
ICEFIN698/869DMN	698-869MHz	2.3:1	2.6dBi	54%	5W(100% duty cycle)  15W(50% duty cycle)
ICEFIN806DMN	806-960MHz	2.2:1	3.7dBi	78%	10W(100% duty cycle)  20W(50% duty cycle)
ICEFINLDMN	698-960MHz 1710-2700MHz	3.2:1(0.698-0.96GHz) 2:1(1.71-2.7GHz)	3.1dBi(0.698-0.96GHz) 5.17dBi(1.71-2.69GHz)	76% 79%	20W(100% duty cycle)  30W(50% 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) 30W(50% duty cycle)
ICEFIN49NMOHF	4900-6000MHz	2:1	6.2dBi	66%	20W((100% duty cycle) 30W(50% duty cycle)
ICEFINWNMOHF	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2:1(4.9-6GHz)	5.2dBi 6.2dBi	88% 66%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFIN24DMN	2400-2500MHz	2:1	5.2dBi	88%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFIN49DMN	4900-6000MHz	2:1	6.2dBi	66%	20W(100% duty cycle) 30W(50% duty cycle)
ICEFINWDMN	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2:1(4.9-6GHz)	5.2dBi 6.2dBi	88% 66%	20W(100% duty cycle) 30W(50% duty cycle)

Nominal Impedance

50Ω

Radiation Pattern

omni

Polarization:

Vertical

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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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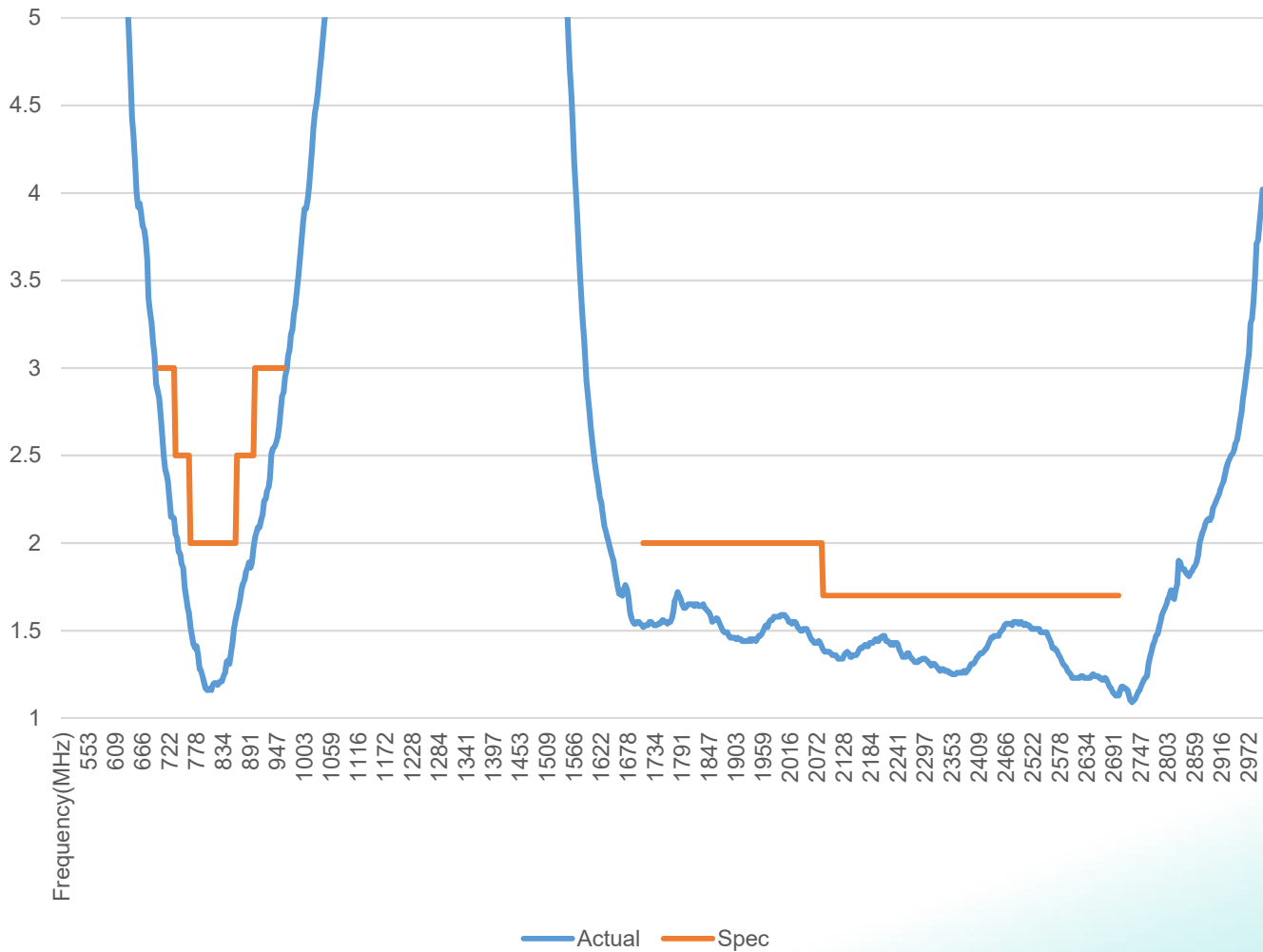
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

VSWR

ICEFINLNMOHF  
VSWR



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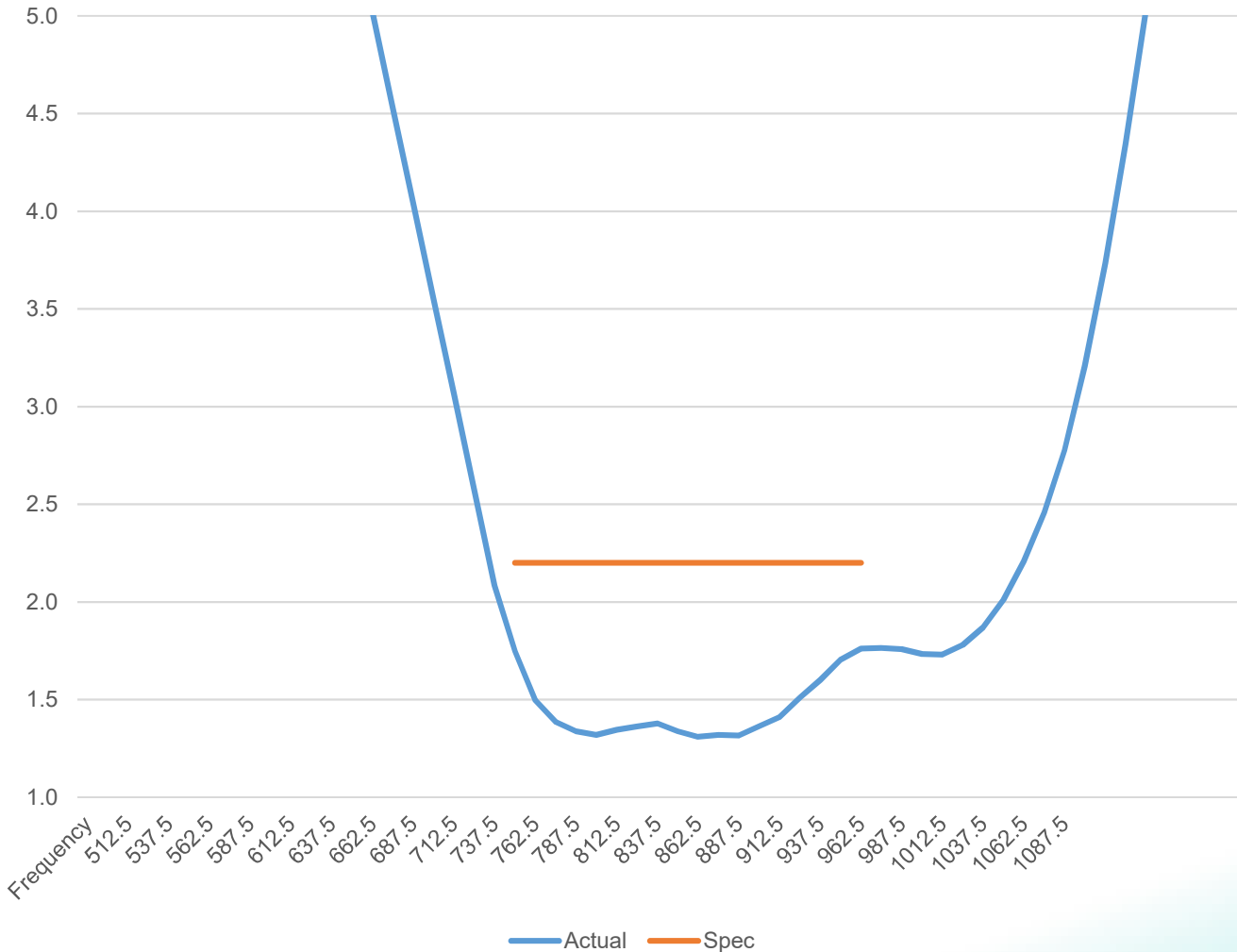
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CHARTS

VSWR

ICEFIN698/960NMO  
VSWR



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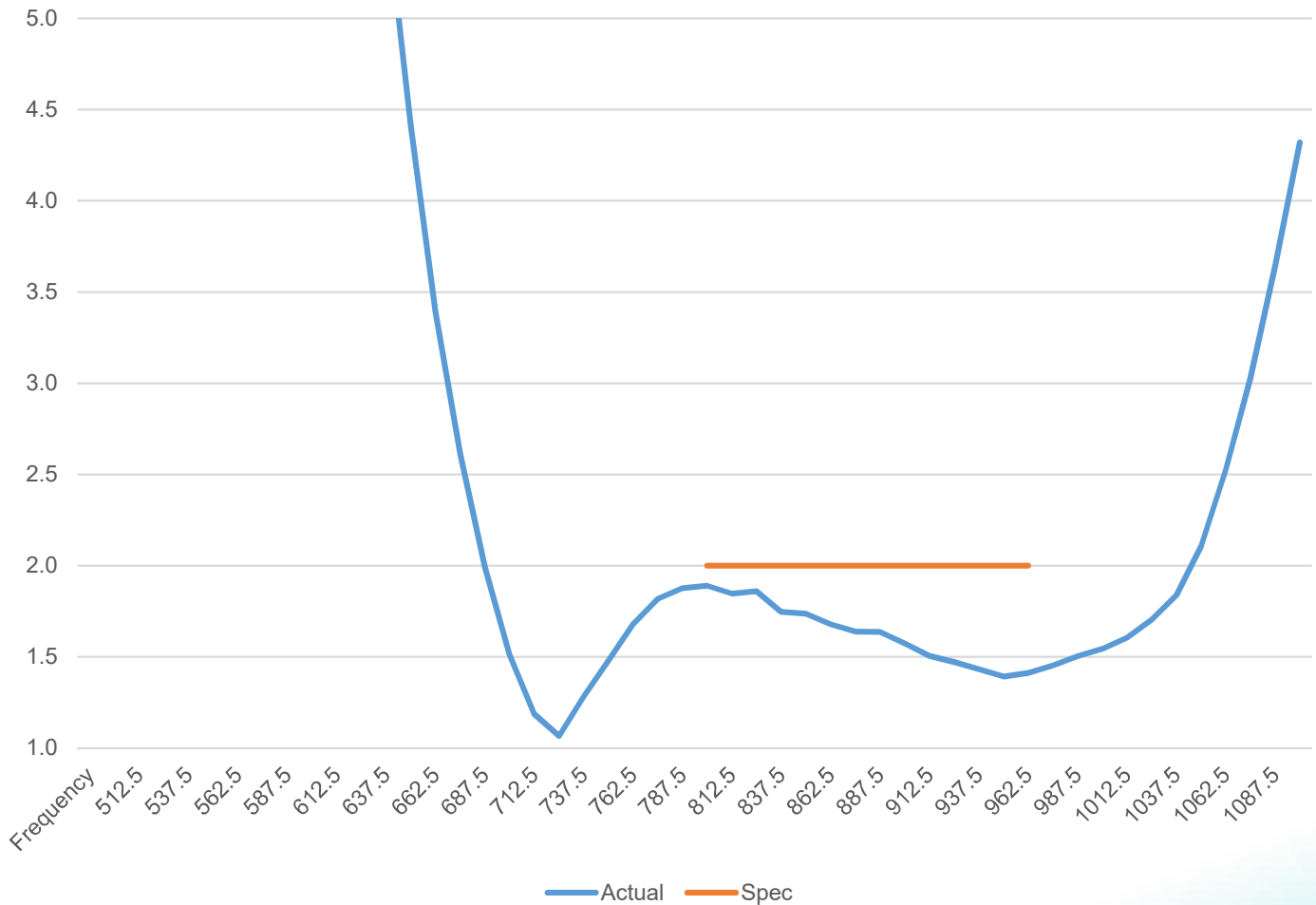
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CHARTS

VSWR

ICEFIN806NMO  
VSWR



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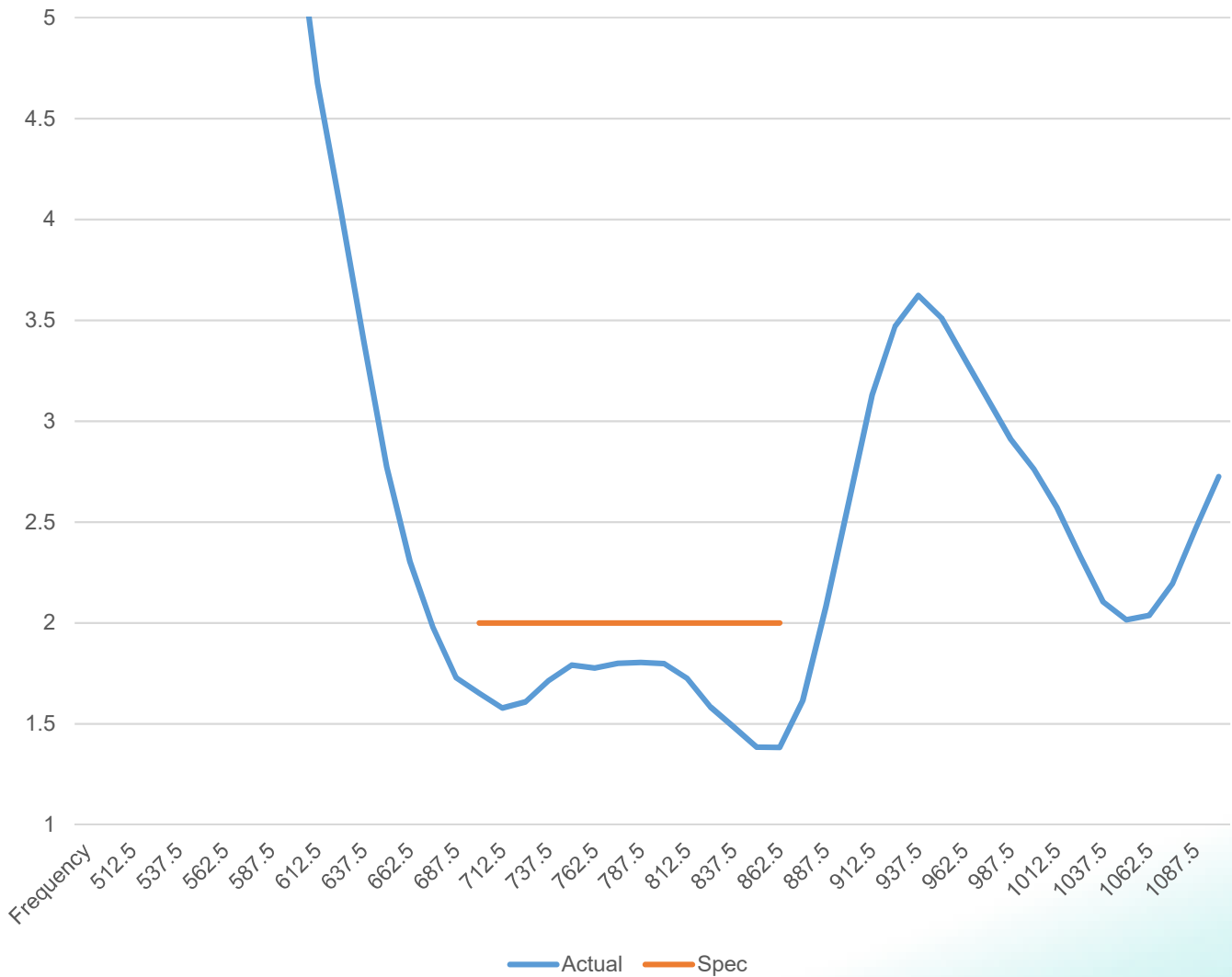
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**CHARTS**

**VSWR**

ICEFIN698/869DMN  
VSWR



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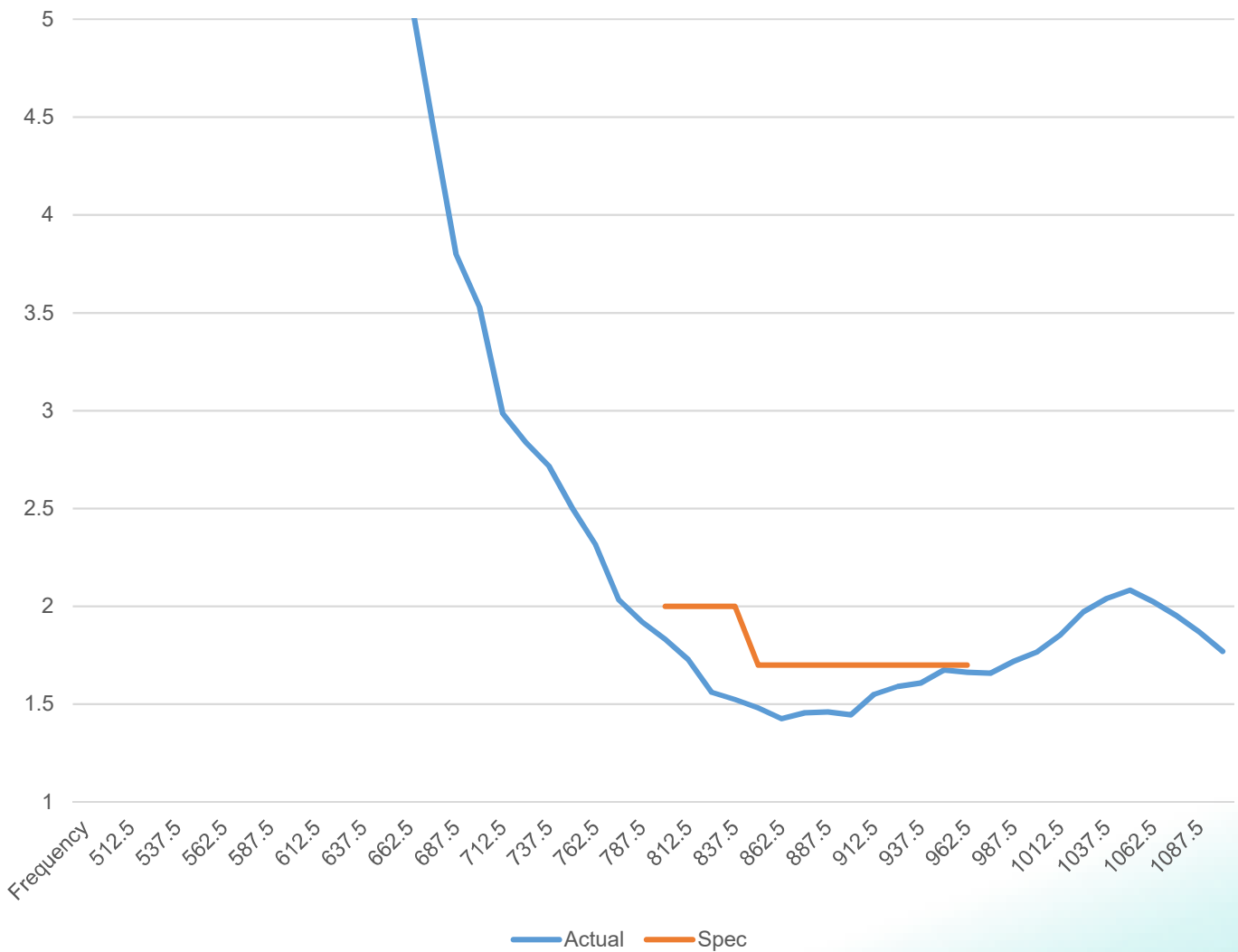
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**CHARTS**

**VSWR**

ICEFIN806DMN  
VSWR



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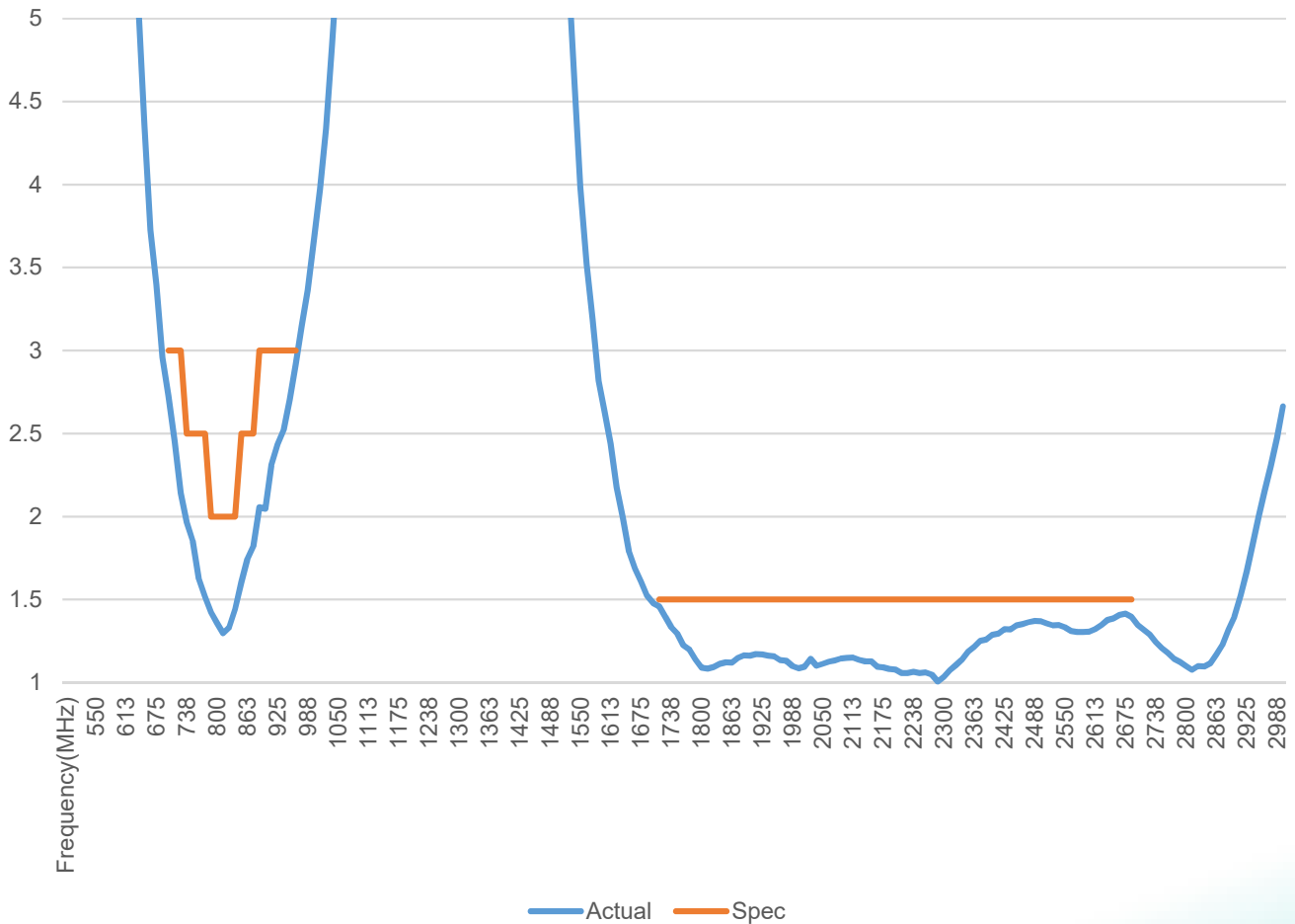
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CHARTS

VSWR

ICEFINLDMN  
VSWR



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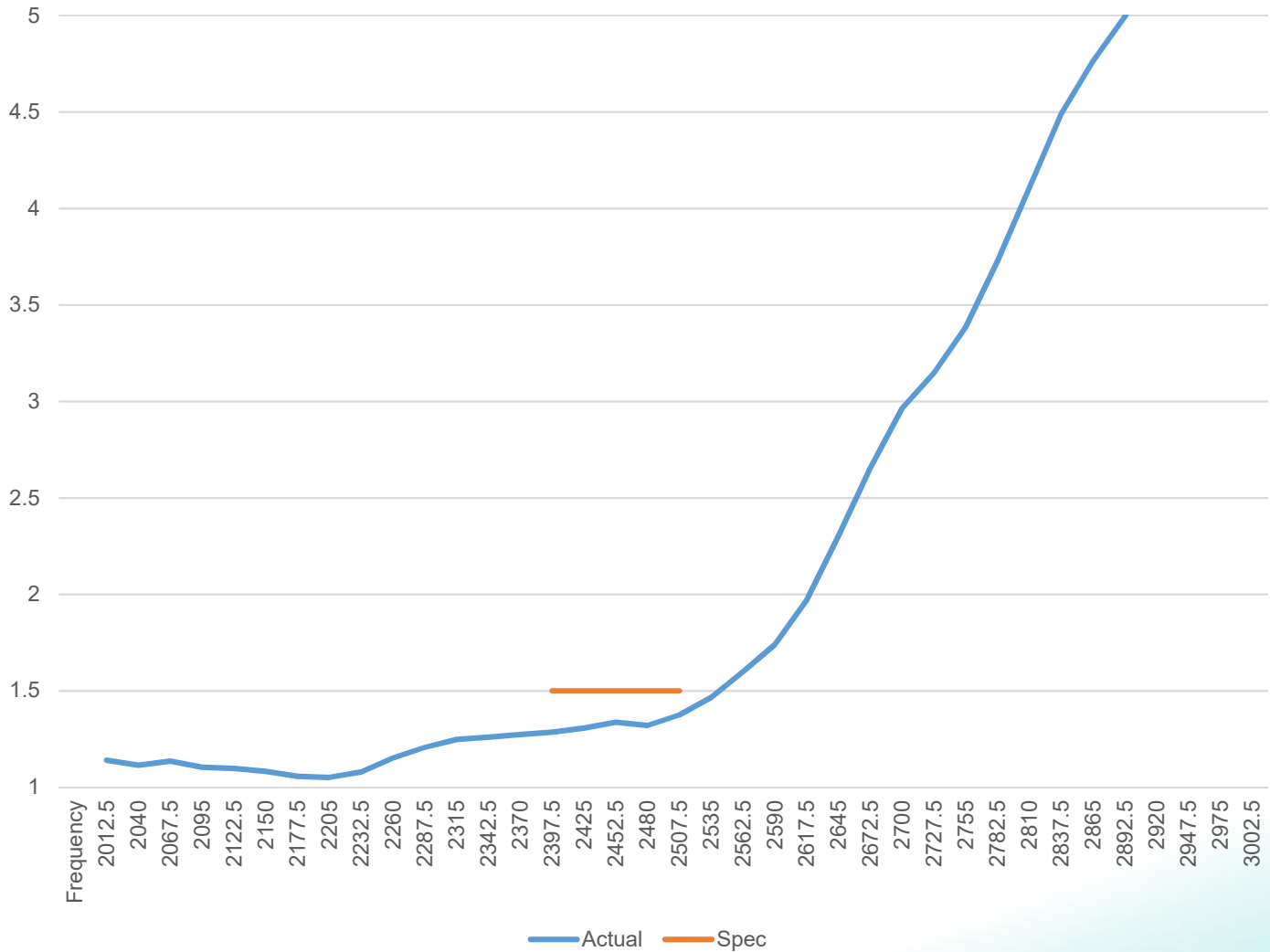
Series: IceFin

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CHARTS

VSWR

ICEFIN24NMOHF  
VSWR



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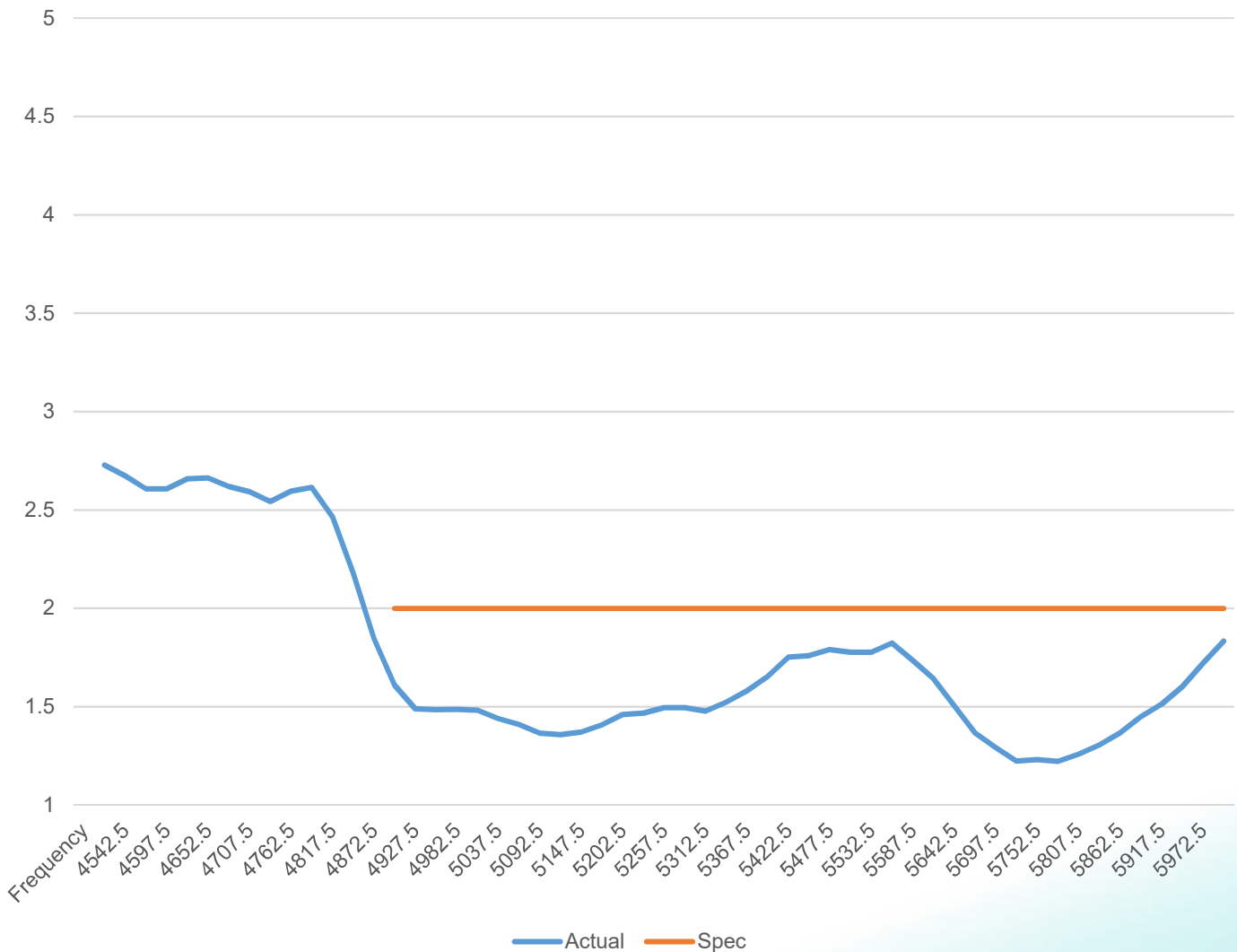
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

**VSWR**

**ICEFIN49NMOHF  
VSWR**



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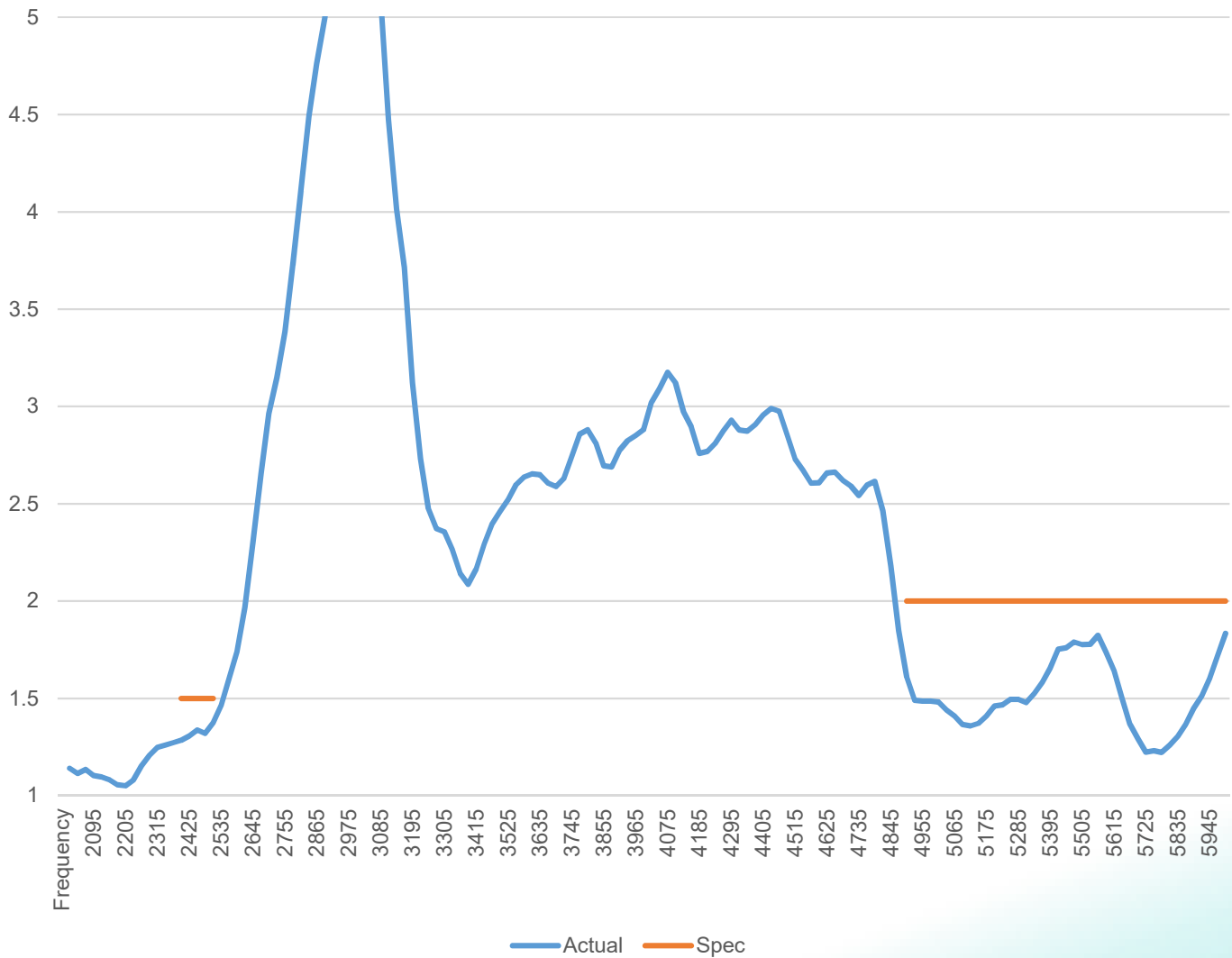
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CHARTS

VSWR

ICEFINWNMOHF  
VSWR



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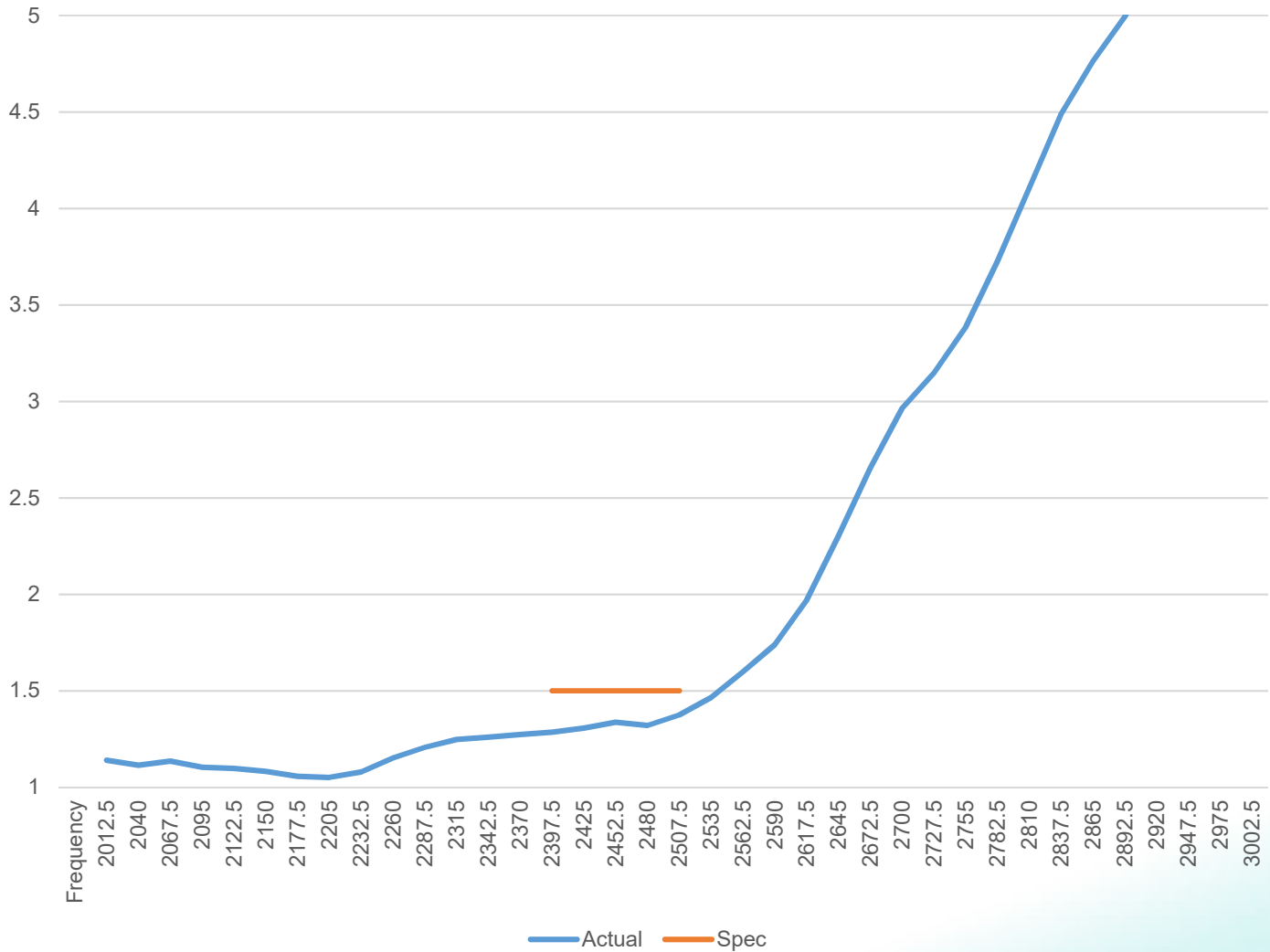
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CHARTS

VSWR

ICEFIN24DMN  
VSWR



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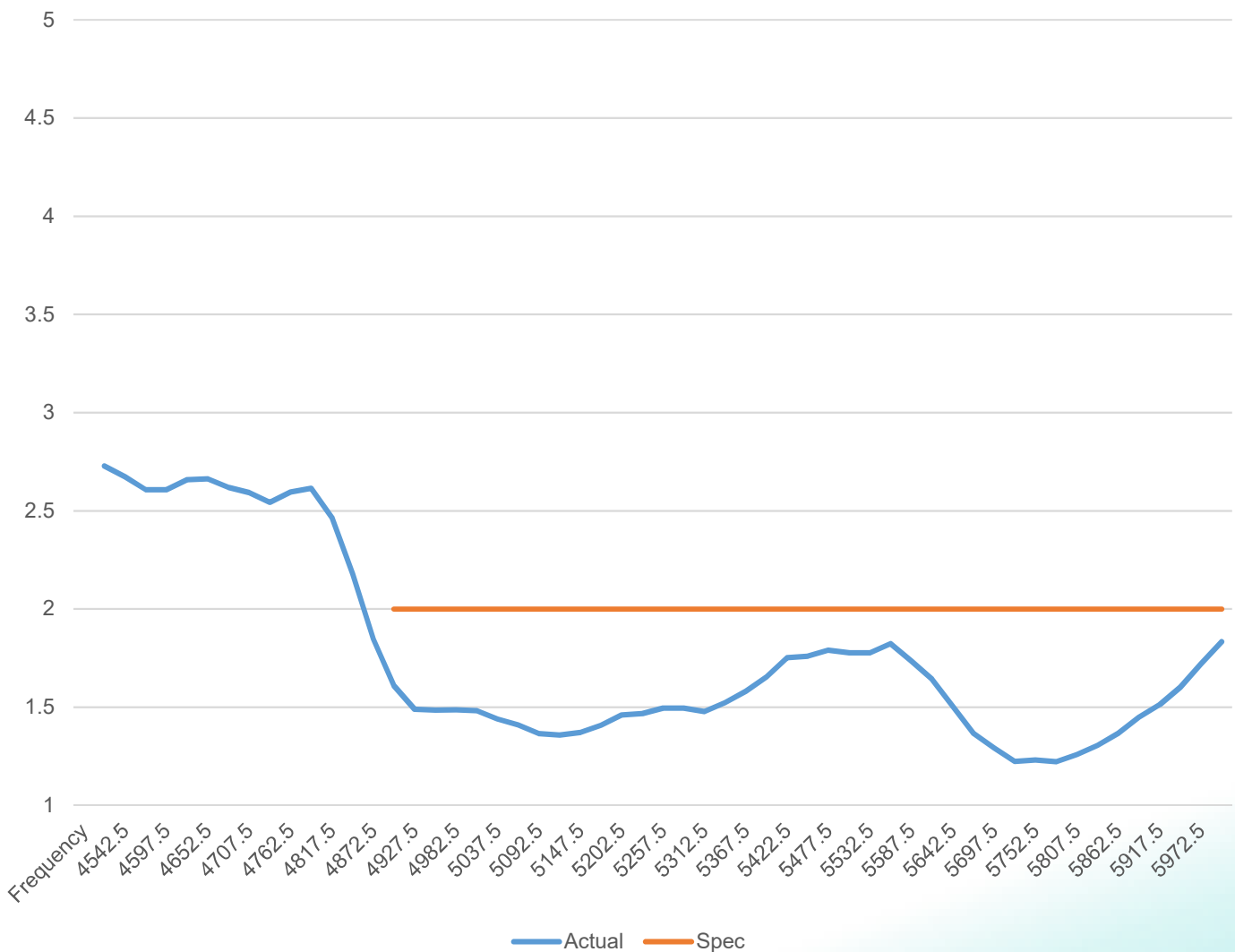
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**CHARTS**

**VSWR**

**ICEFIN49DMN  
VSWR**



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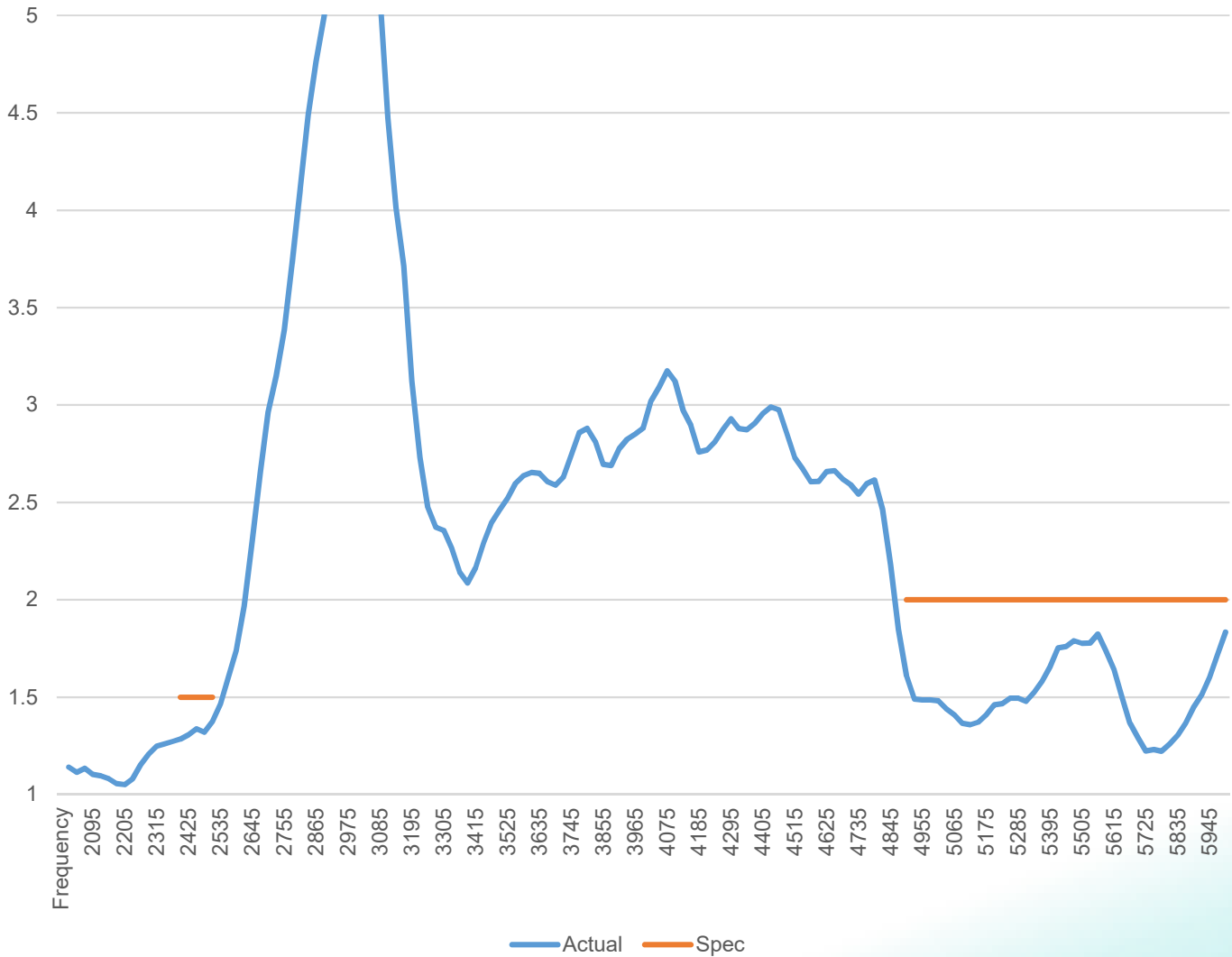
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**CHARTS**

**VSWR**

ICEFINWDMN  
VSWR



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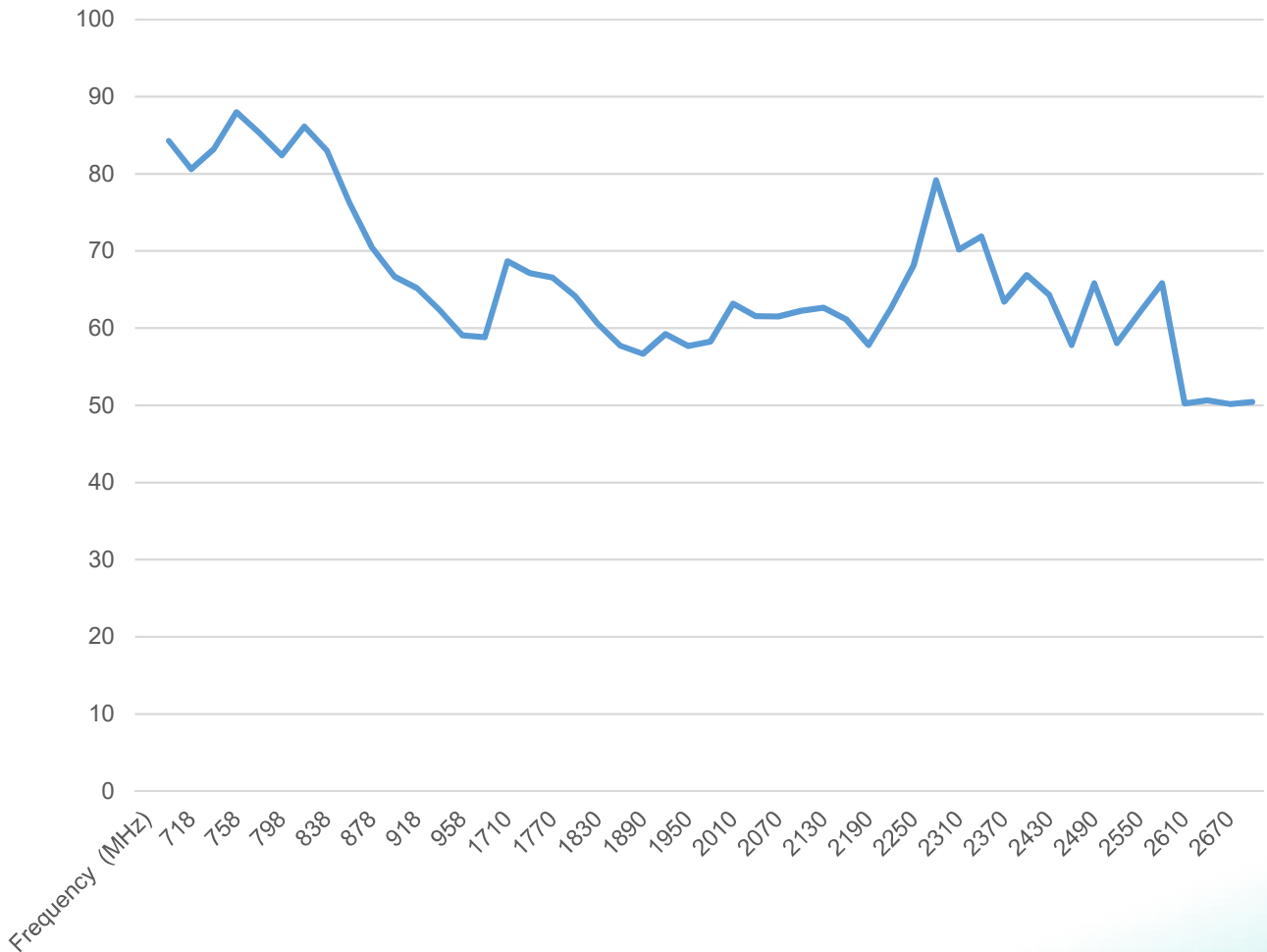
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**CHARTS**

Efficiency(%)

ICEFINLNMOHF  
Efficiency (%)



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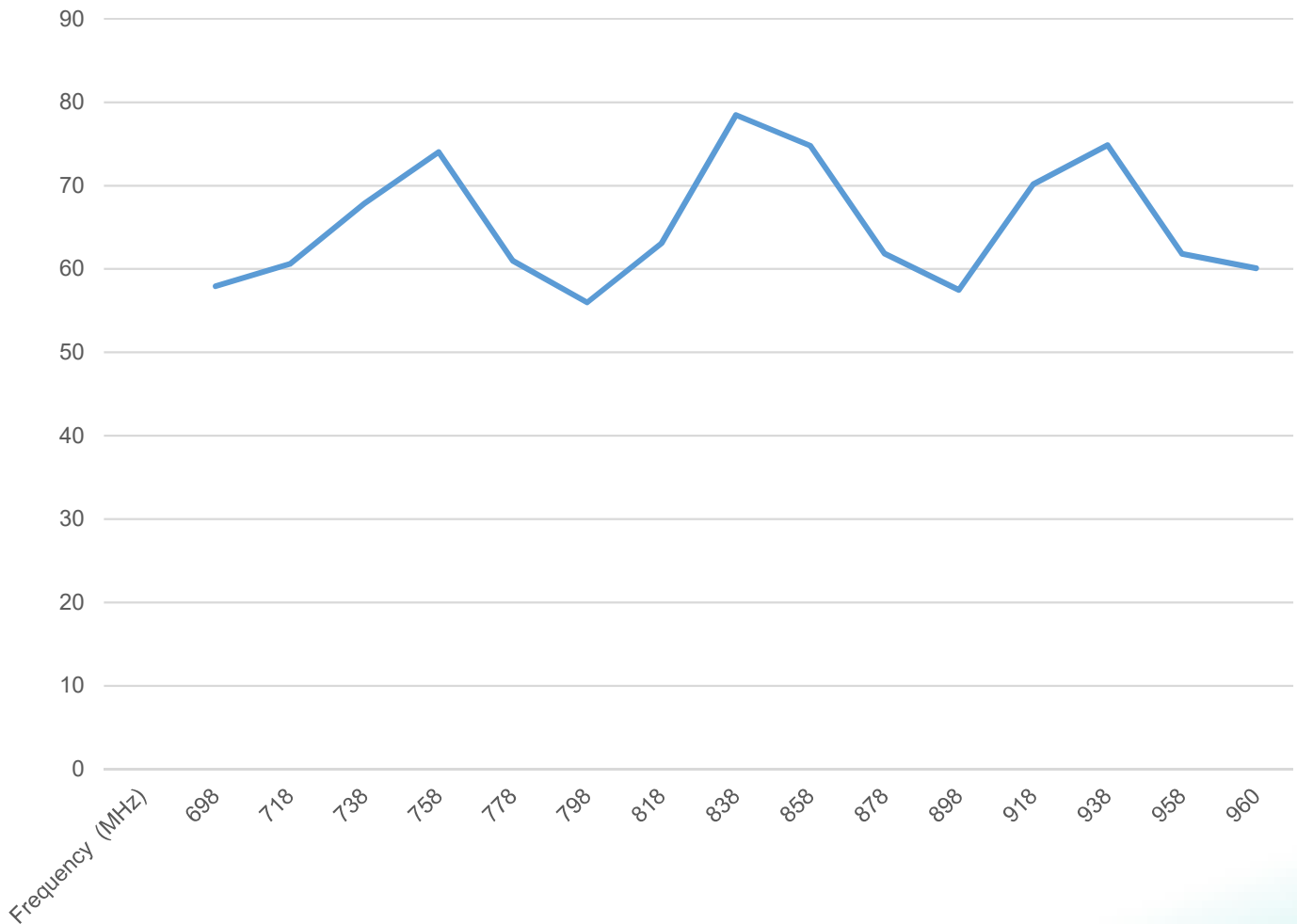
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CHARTS

Efficiency(%)

ICEFIN698/960NMO  
Efficiency (%)



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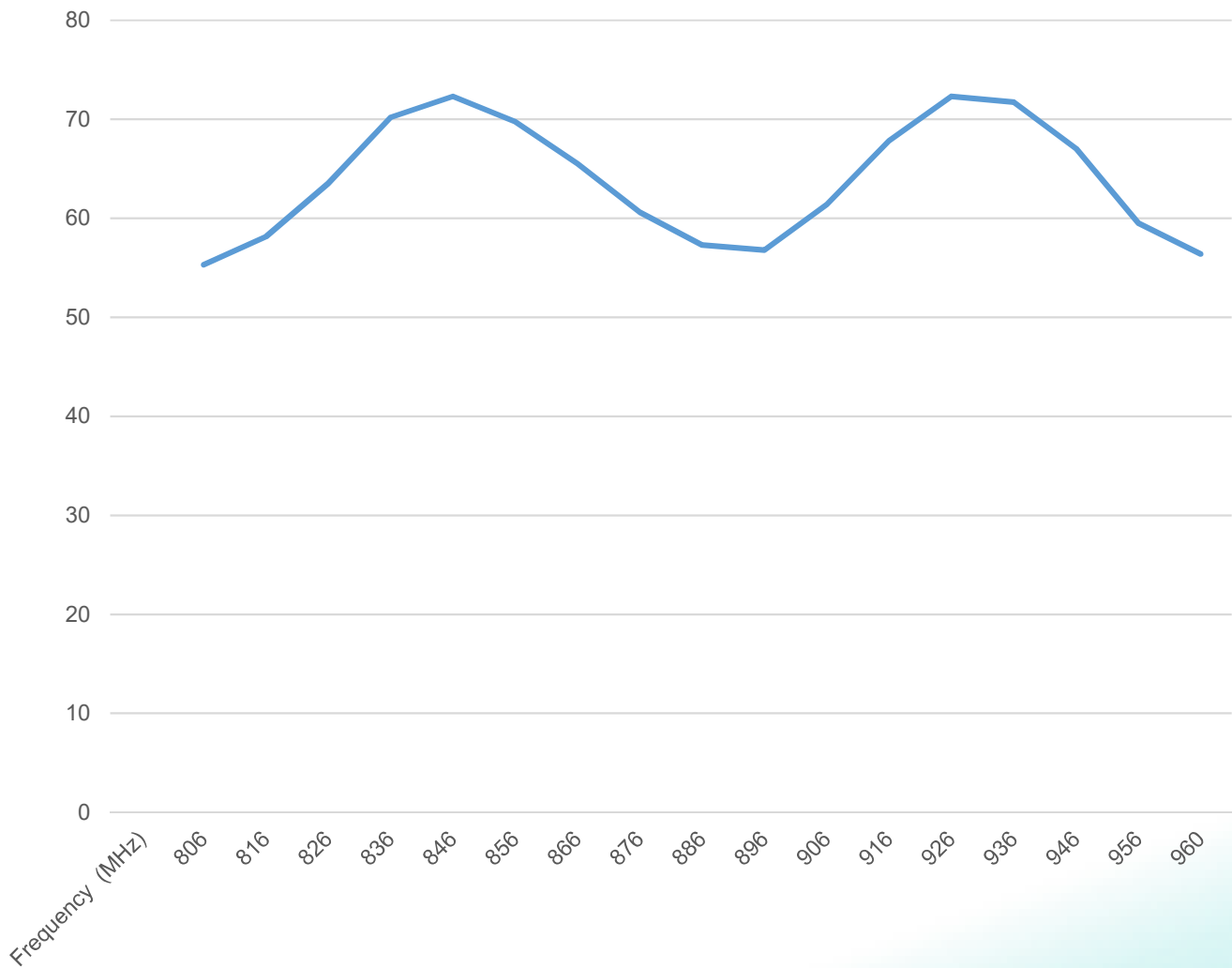
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**CHARTS**

Efficiency(%)

ICEFIN806NMO  
Efficiency (%)



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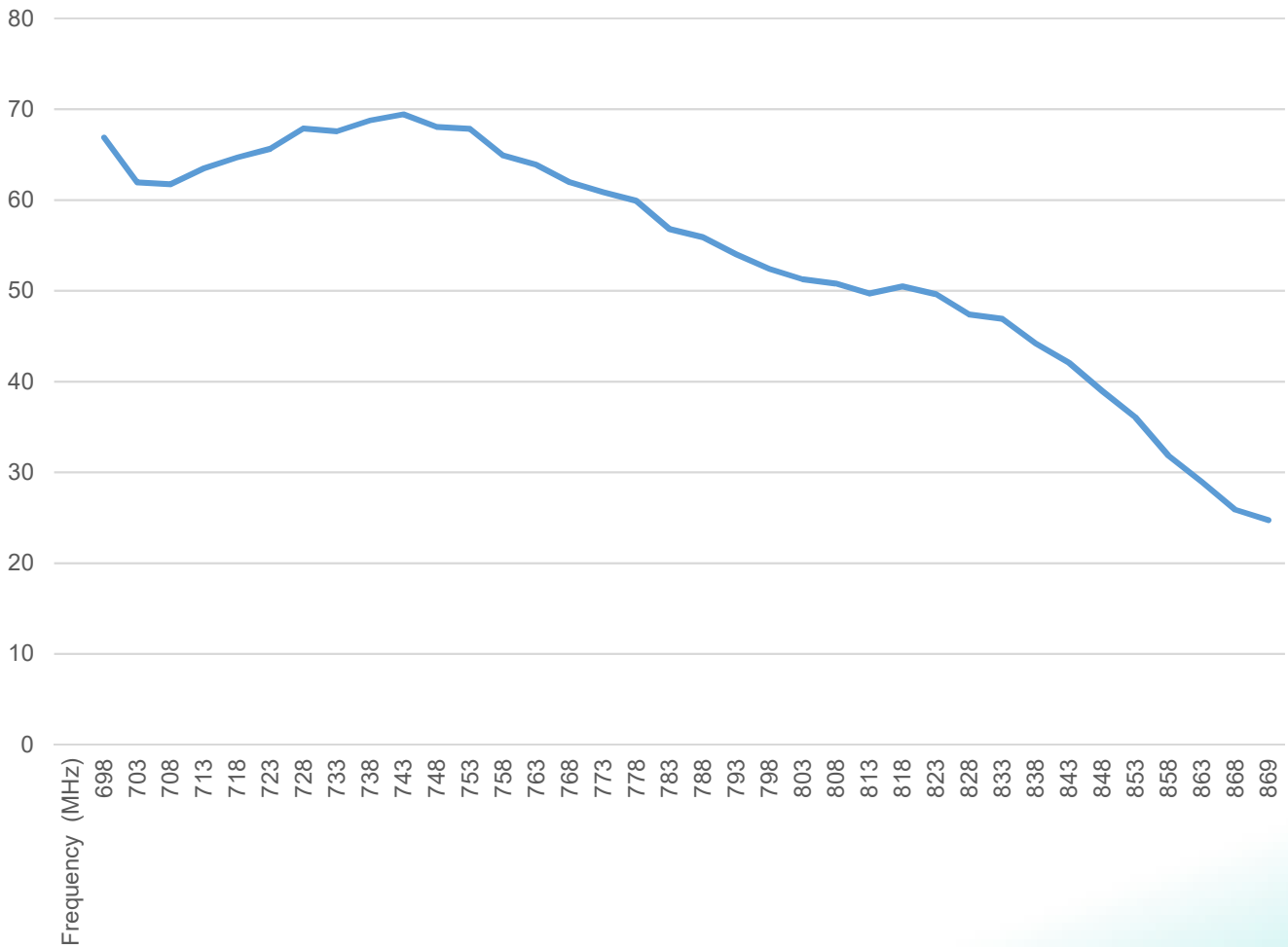
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CHARTS

Efficiency(%)

ICEFIN698/869DMN  
Efficiency (%)



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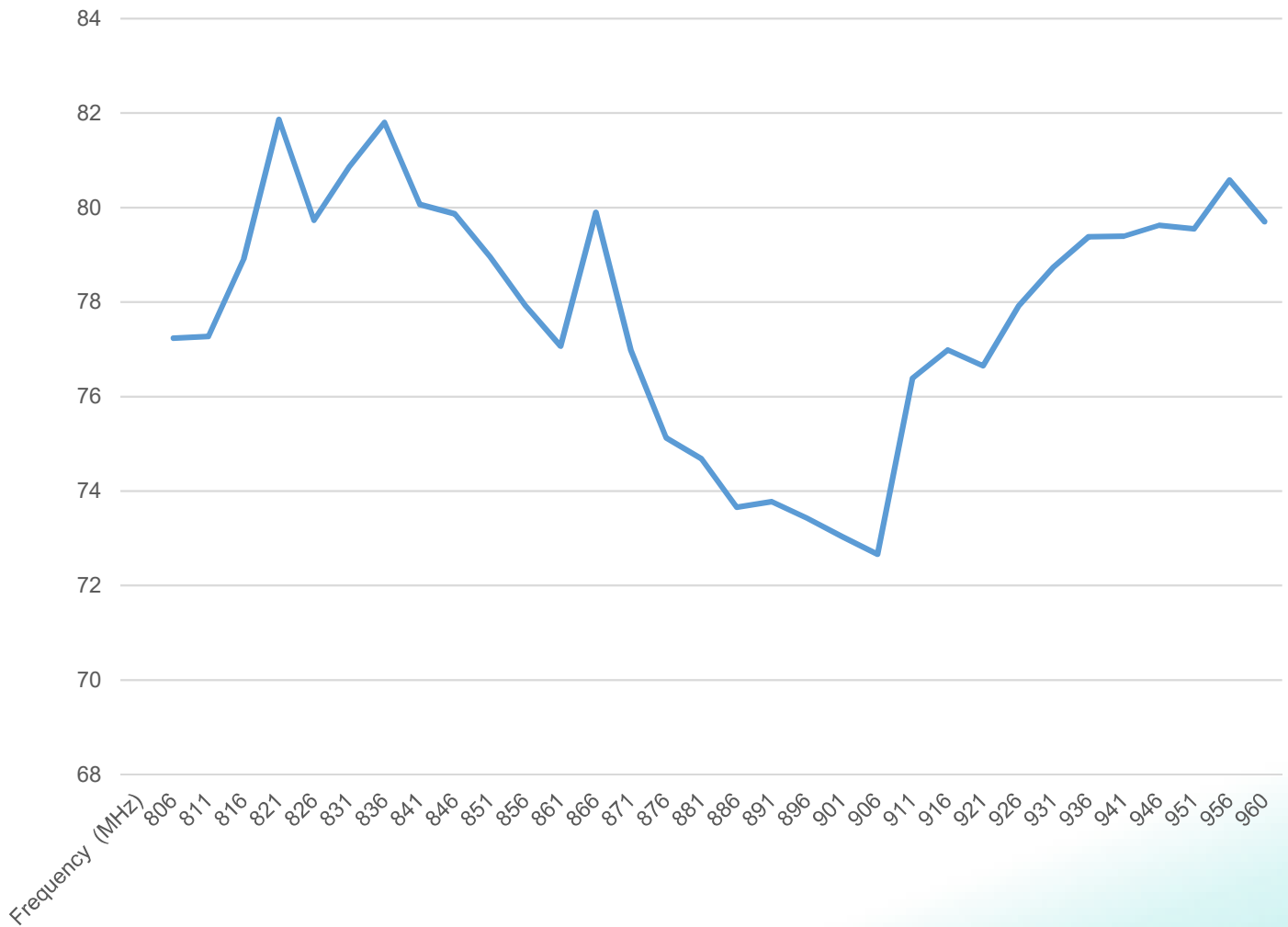
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CHARTS

Efficiency(%)

ICEFIN806DMN  
Efficiency (%)



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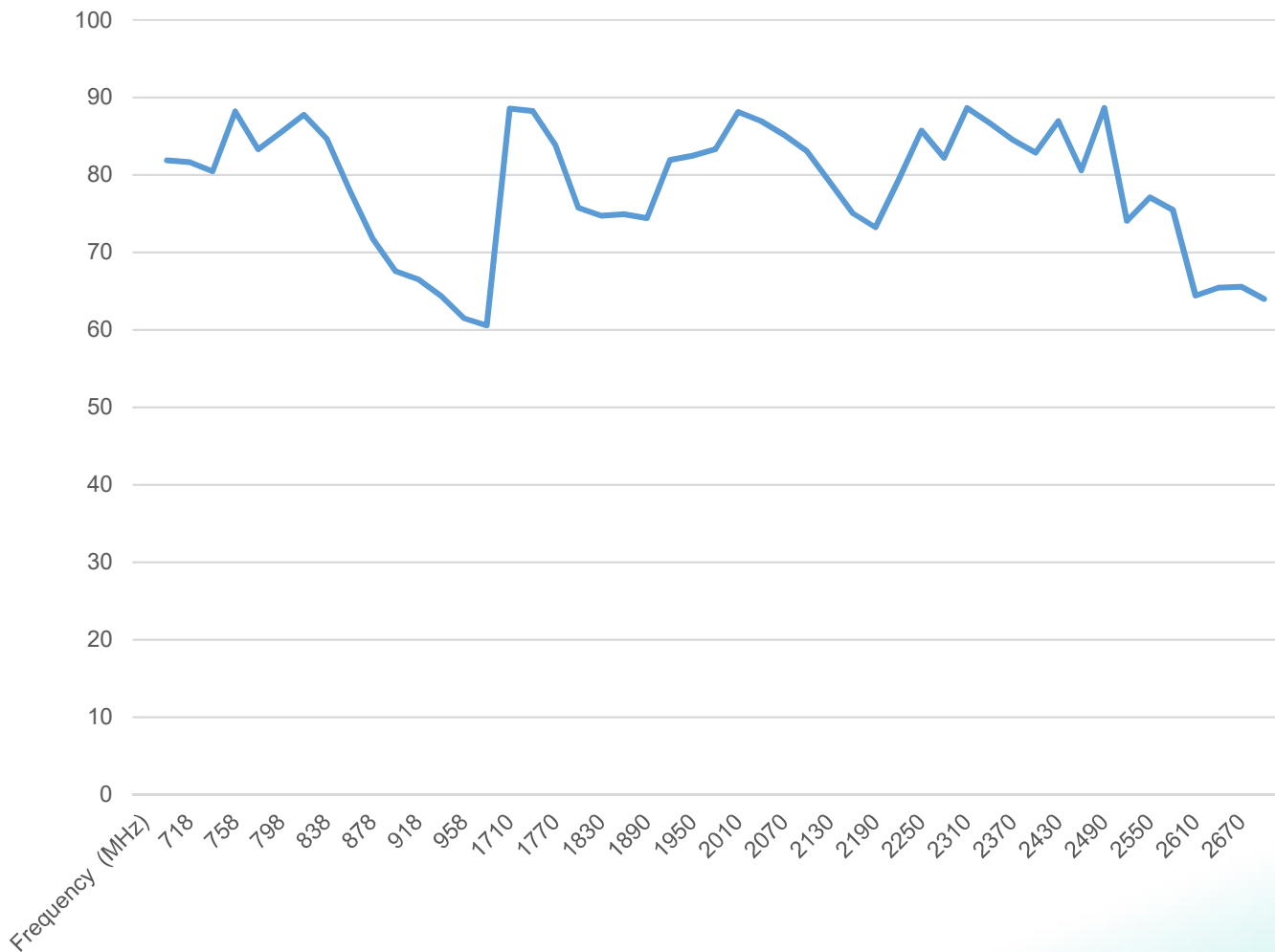
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CHARTS

Efficiency(%)

ICEFINLDMN  
Efficiency (%)



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Description: LOW PROFILE MULTIBAND  
ANTENNA

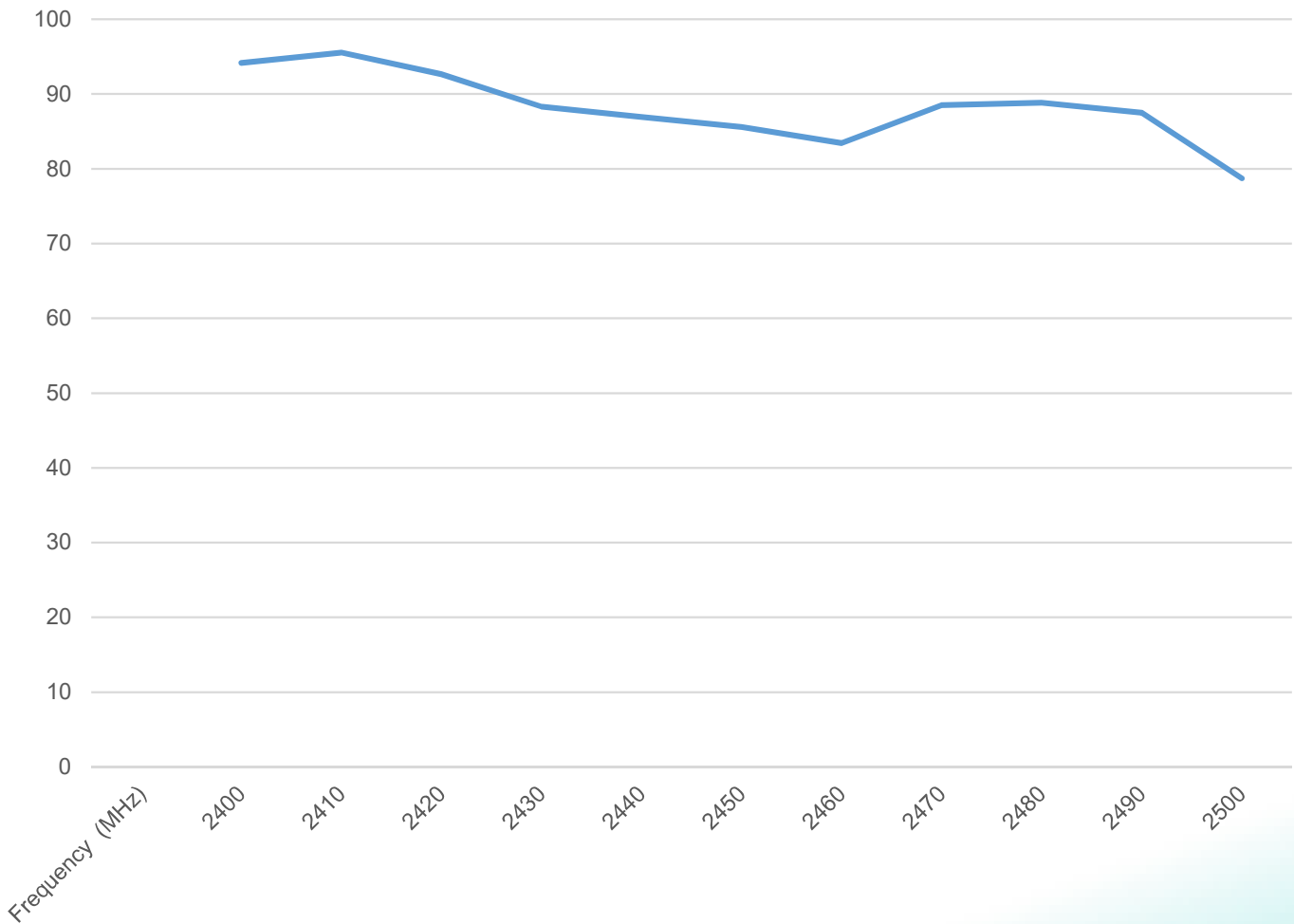
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Efficiency(%)

ICEFIN24NMOHF  
Efficiency (%)



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

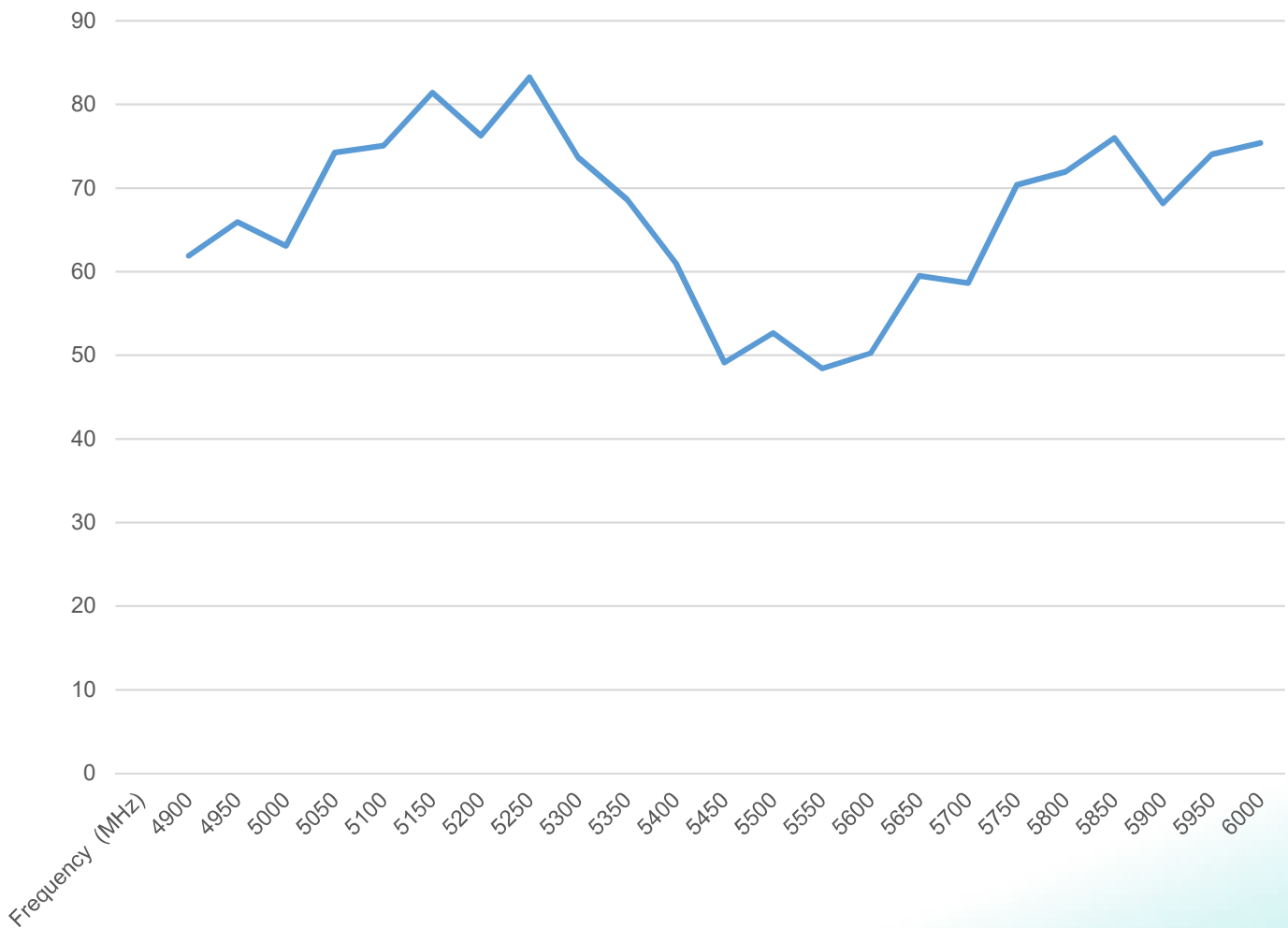
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN49NMOHF  
Efficiency (%)



Issue: 1743

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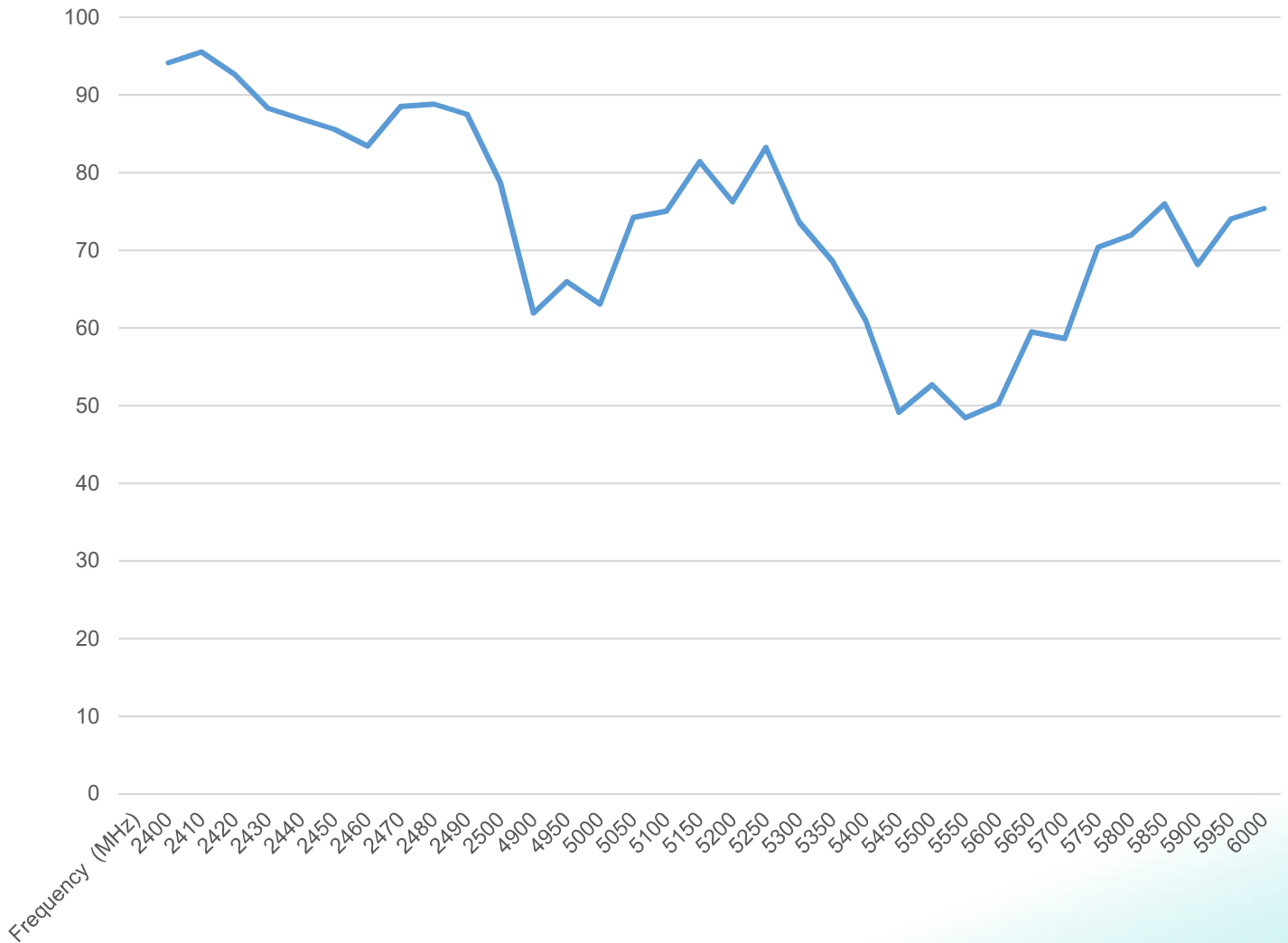
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINWNMOHF  
Efficiency (%)



Issue: 1743

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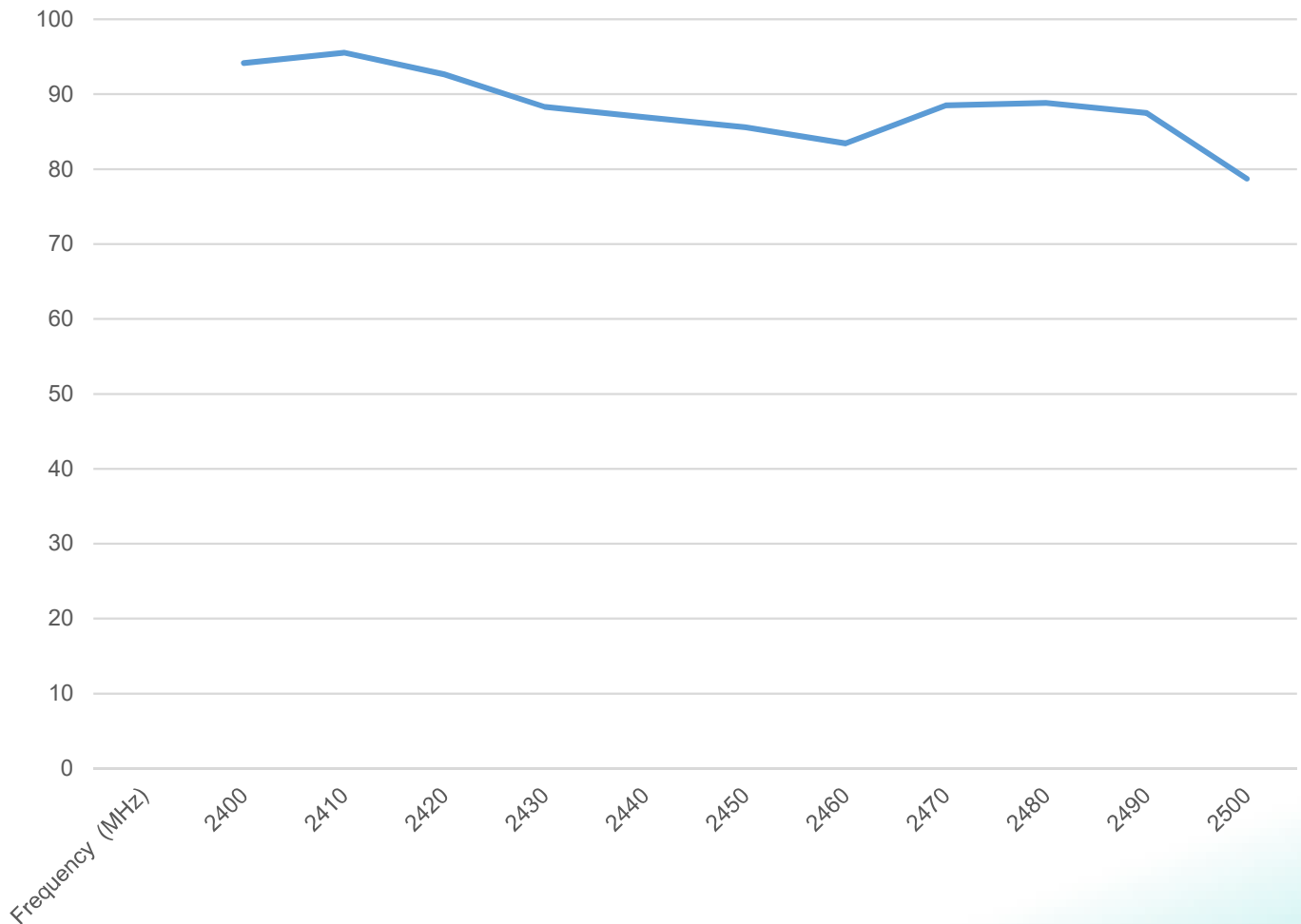
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Efficiency(%)

ICEFIN24DMN  
Efficiency (%)



Issue: 1743

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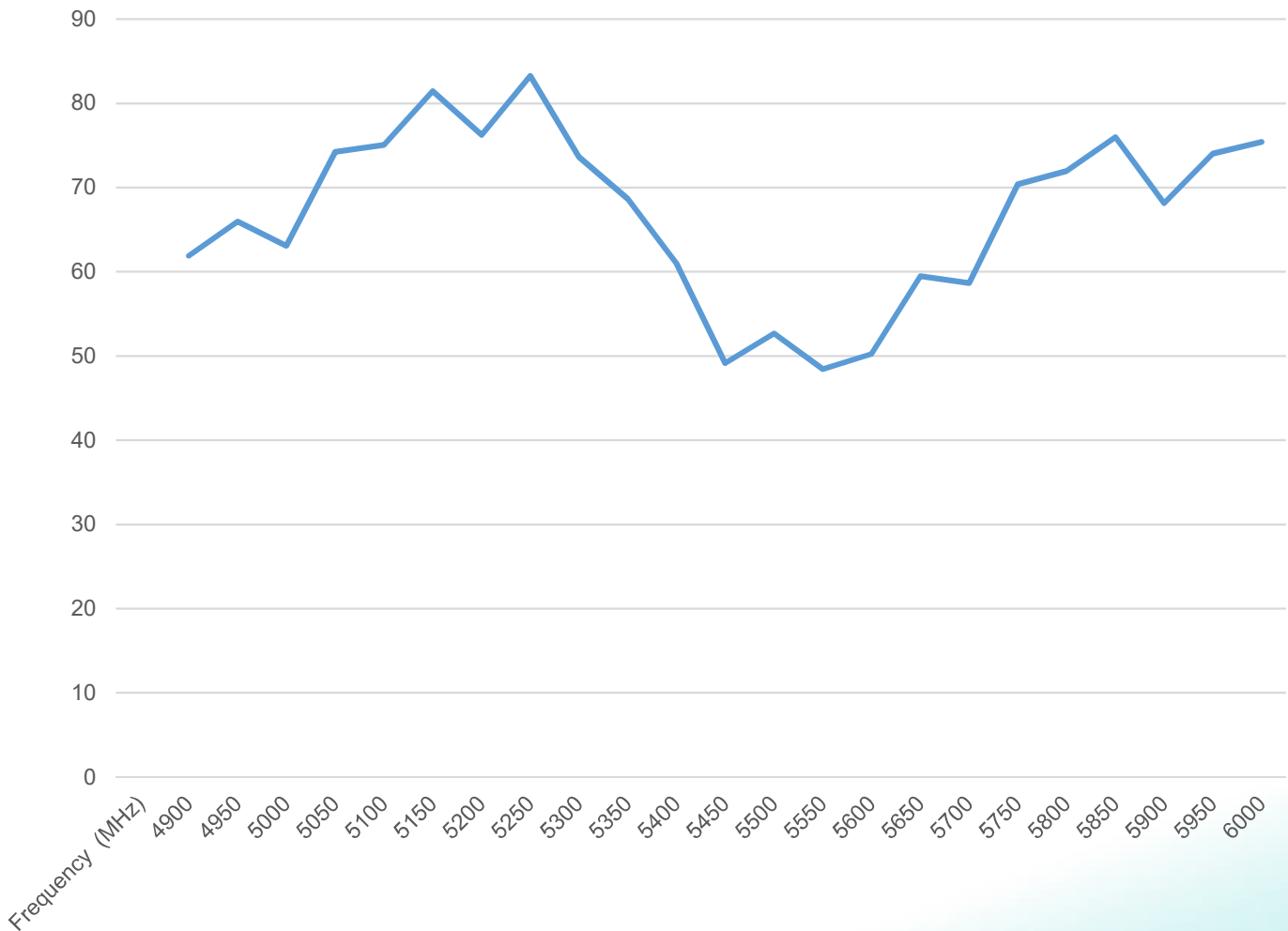
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN49DMN  
Efficiency (%)



Issue: 1743

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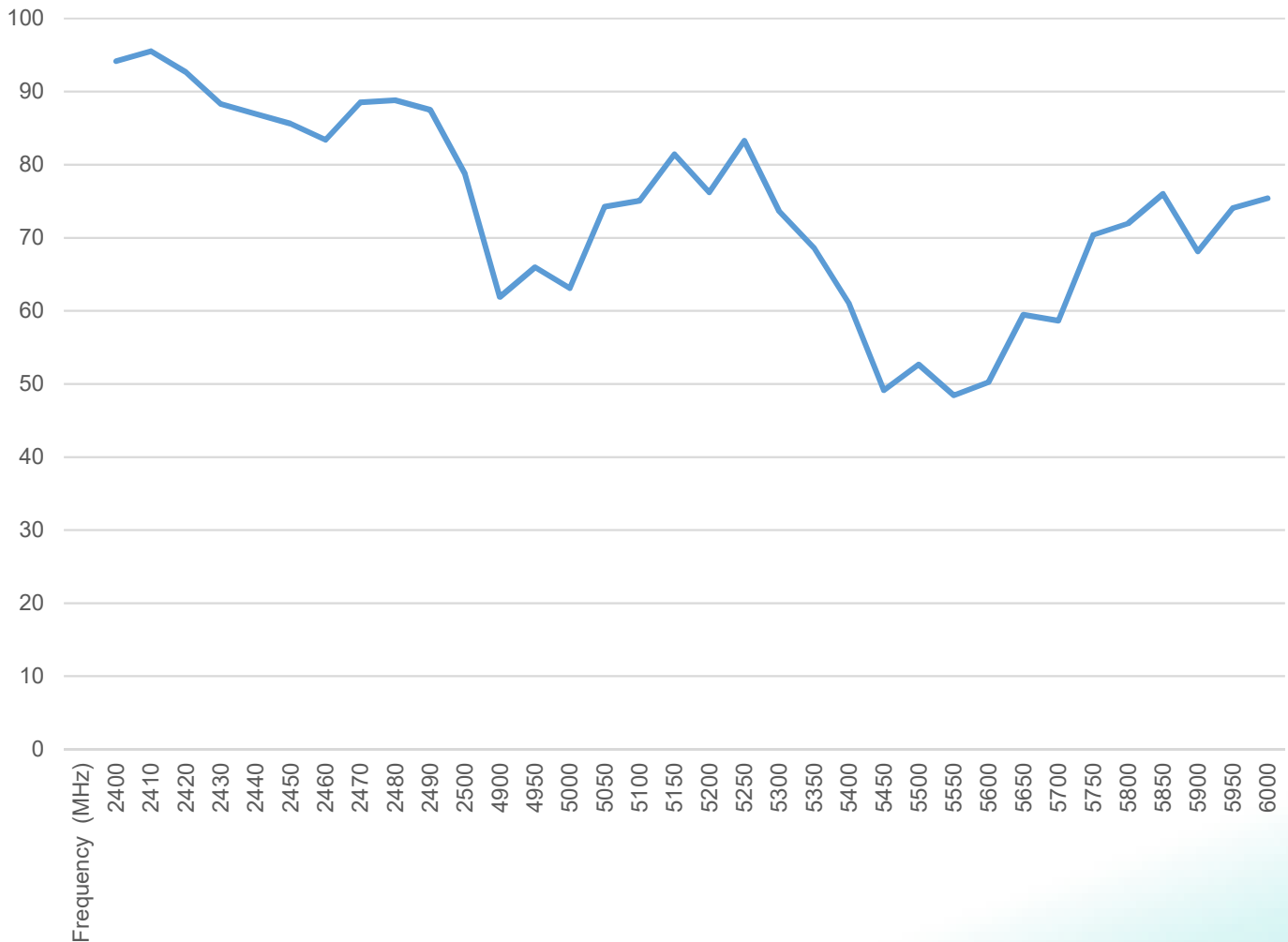
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINWDMN  
Efficiency (%)



Issue: 1743

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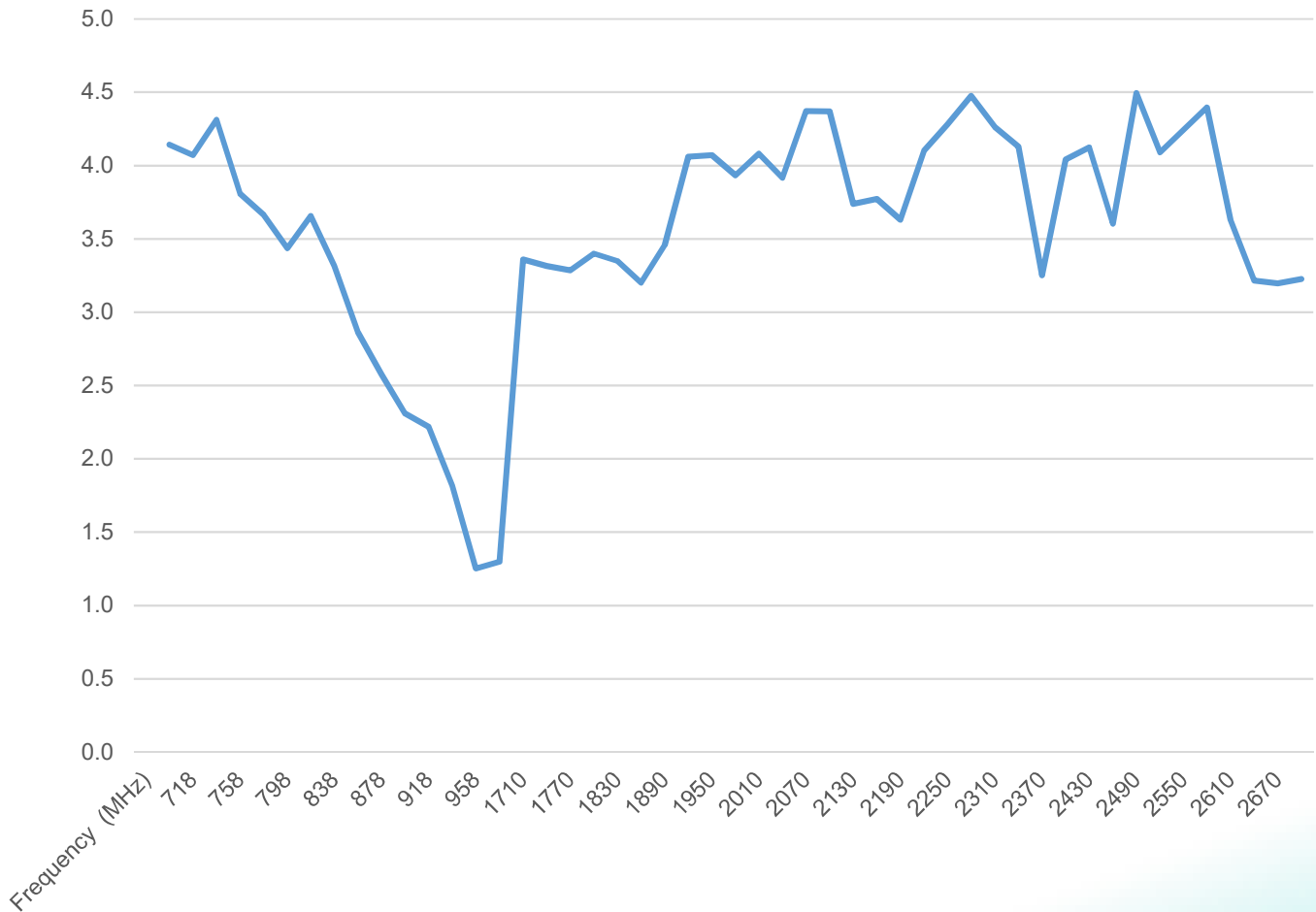
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINLNMOHF  
Peak Gain(dBi)



Issue: 1743

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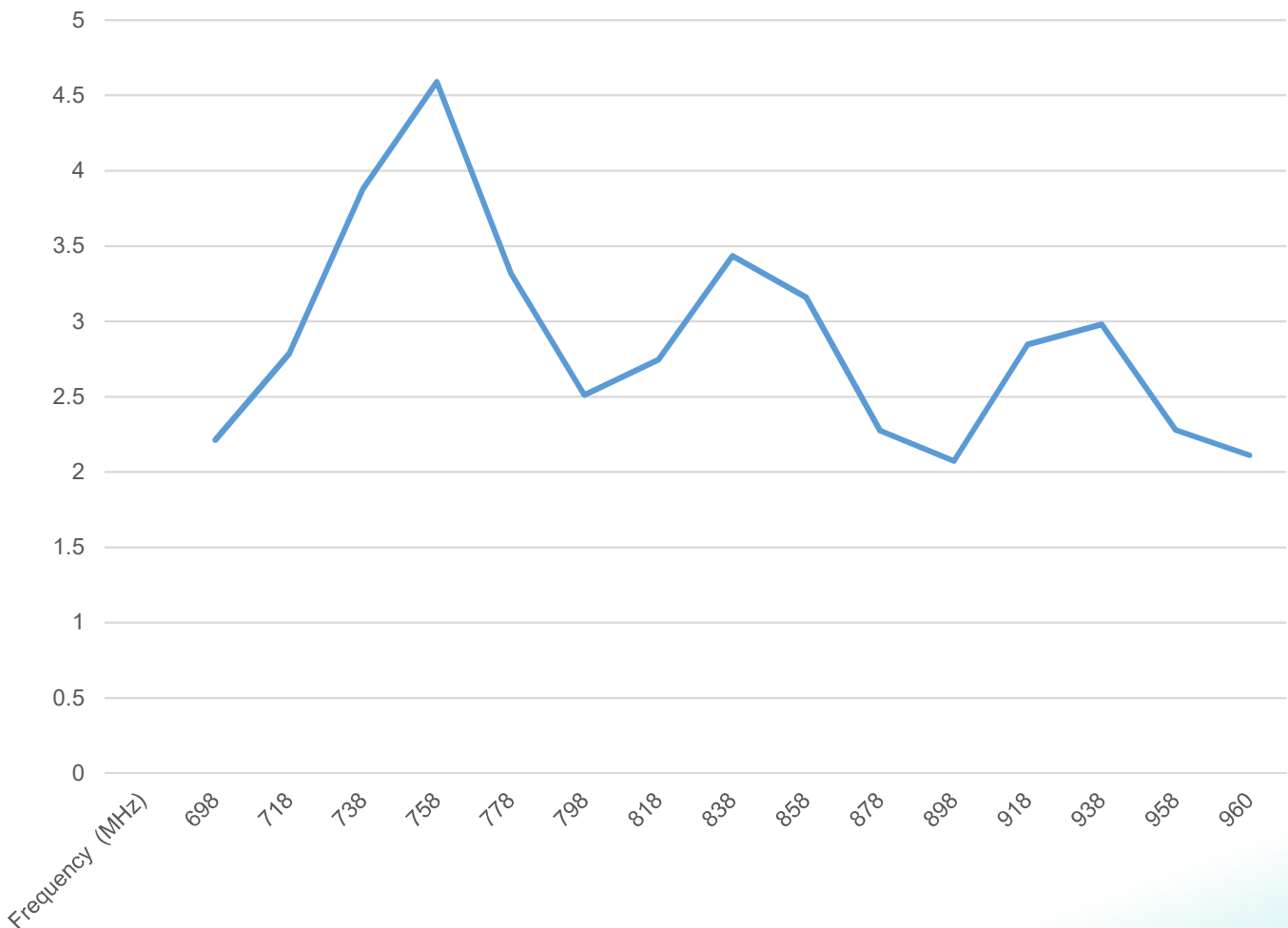
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN698/960NMO  
Peak Gain(dBi)



Issue: 1743

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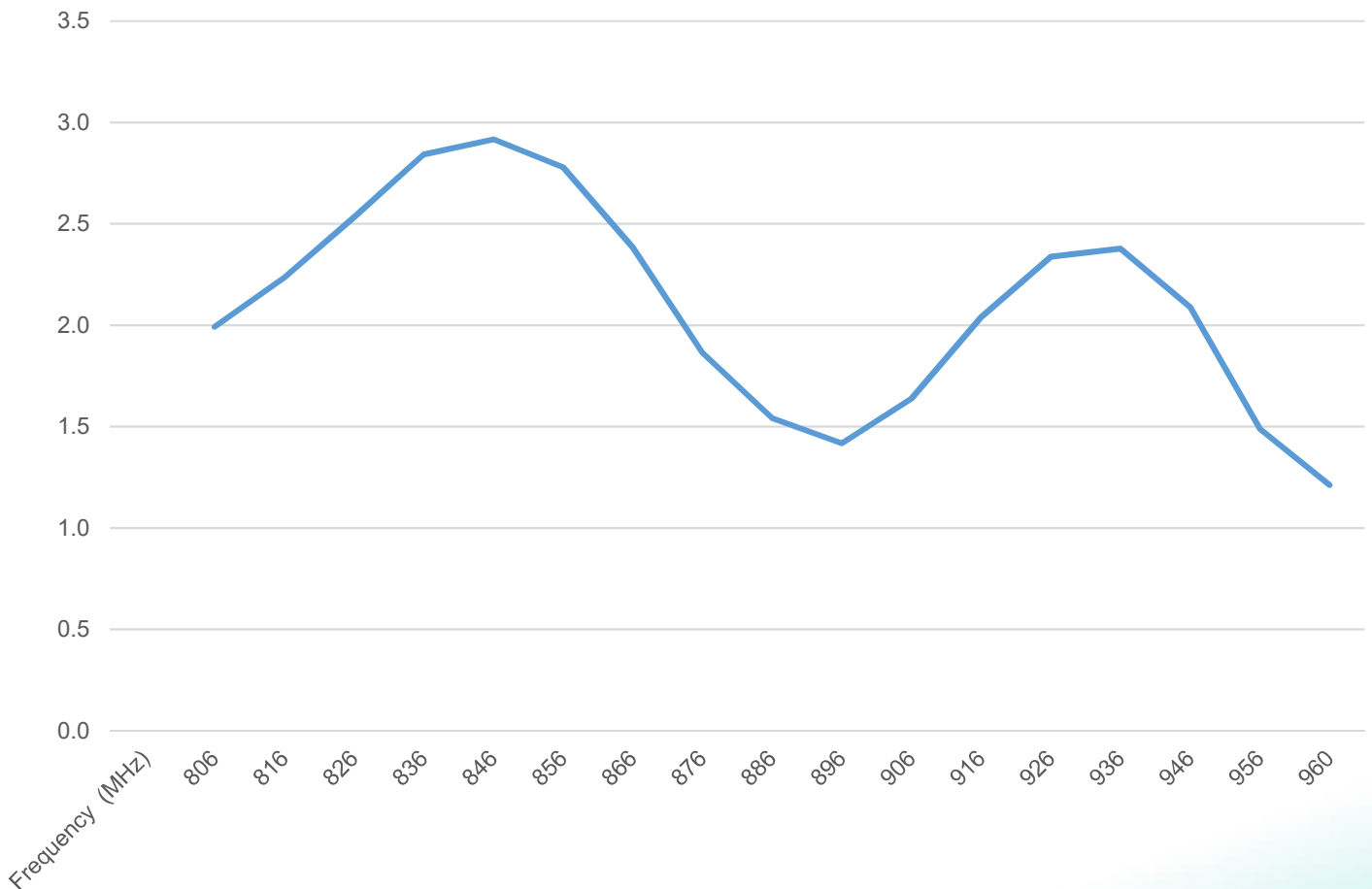
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN806NMO  
Peak Gain(dBi)



Issue: 1743

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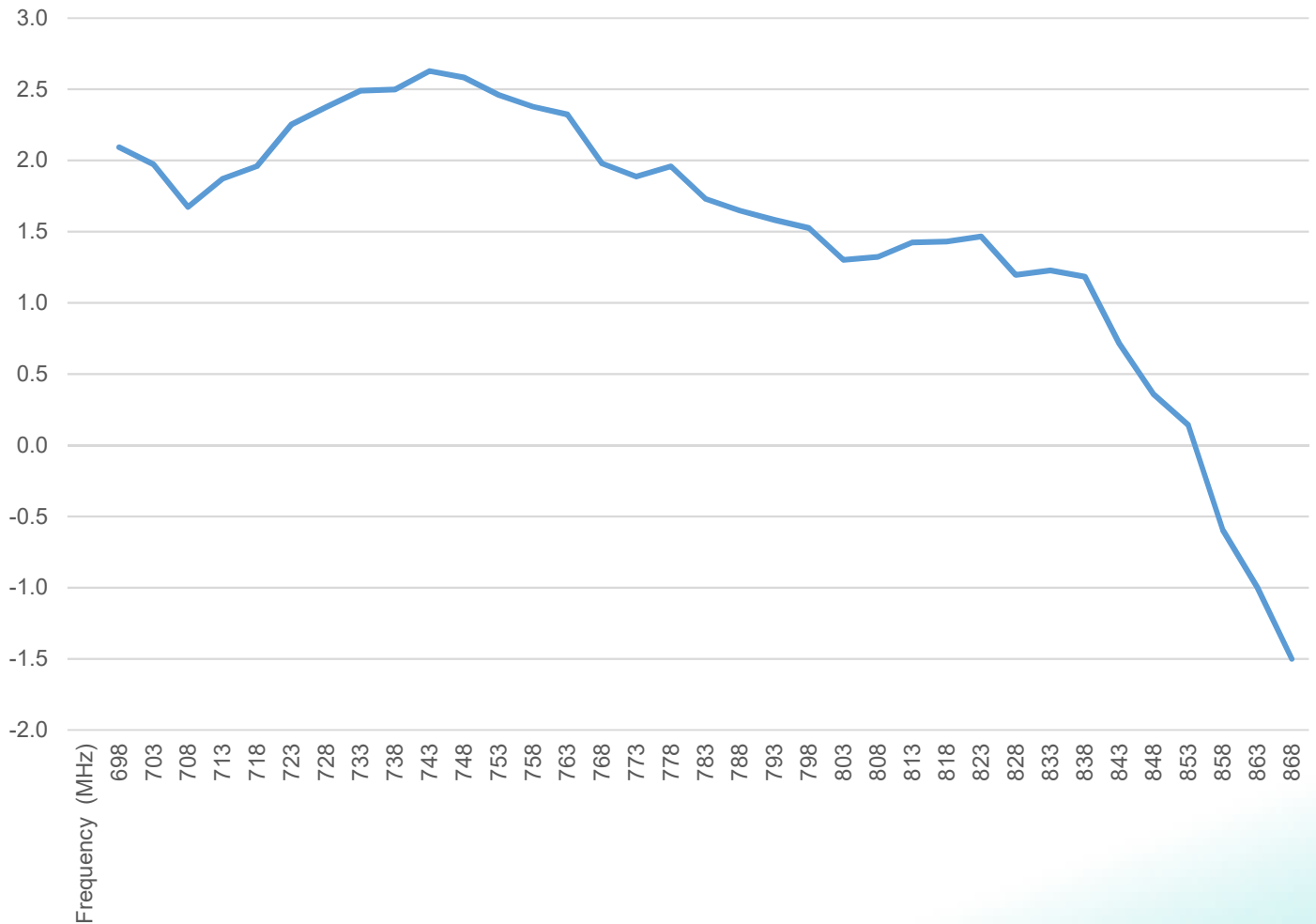
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN698/869DMN  
Peak Gain(dBi)



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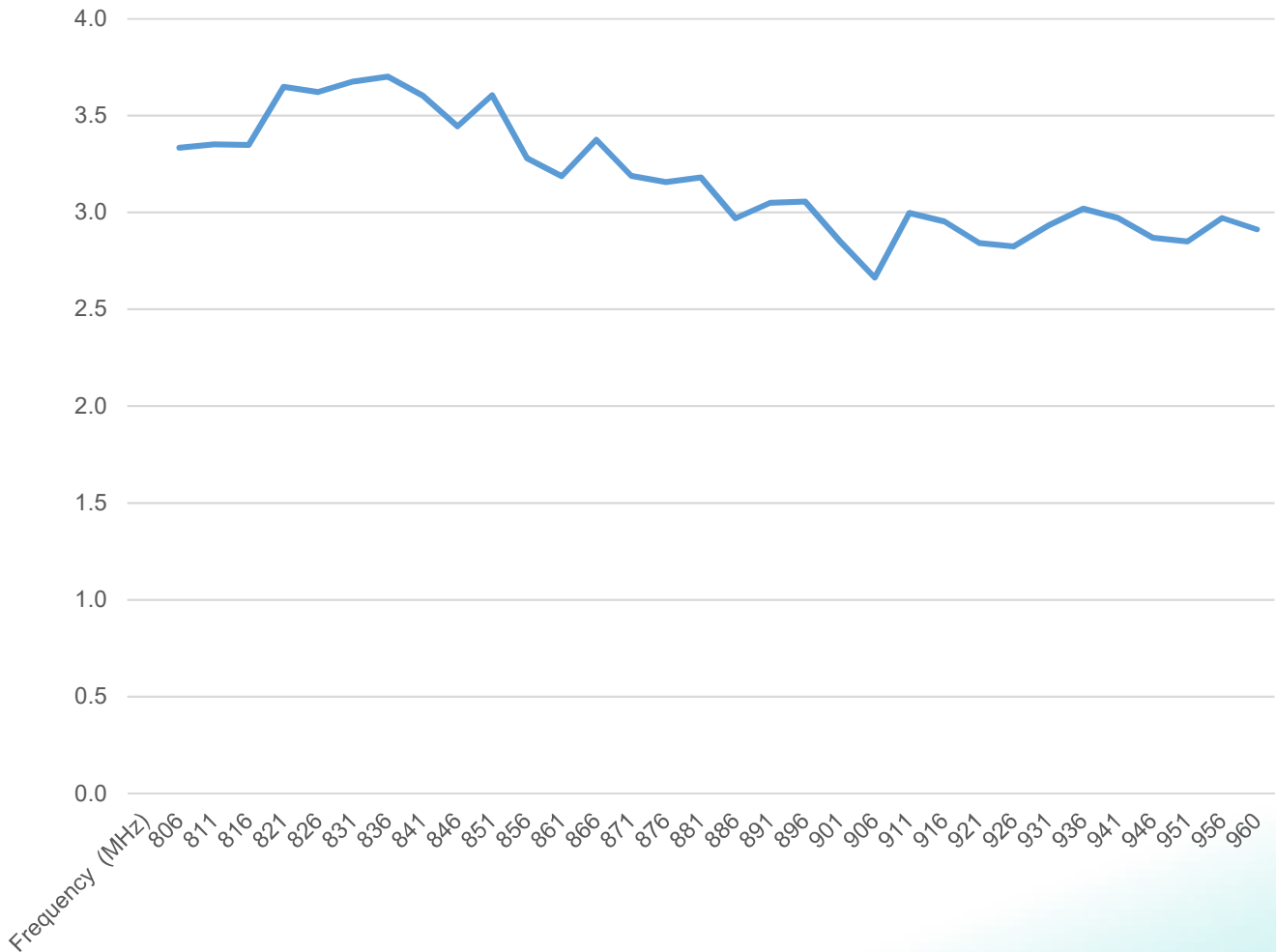
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN806DMN  
Peak Gain(dBi)



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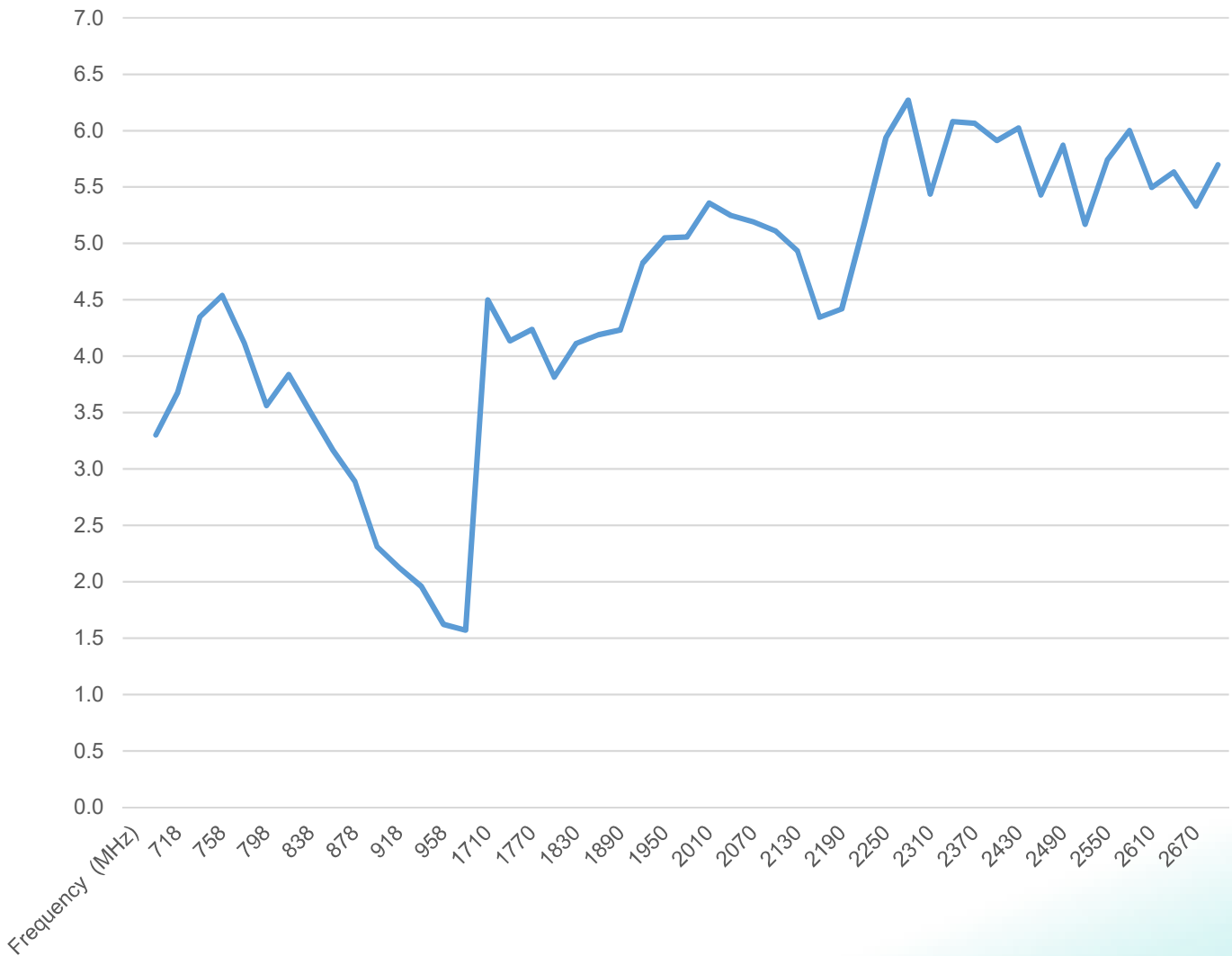
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Peak Gain (dBi)

ICEFINLDMN  
Peak Gain(dBi)



Issue: 1743

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ANTENNA

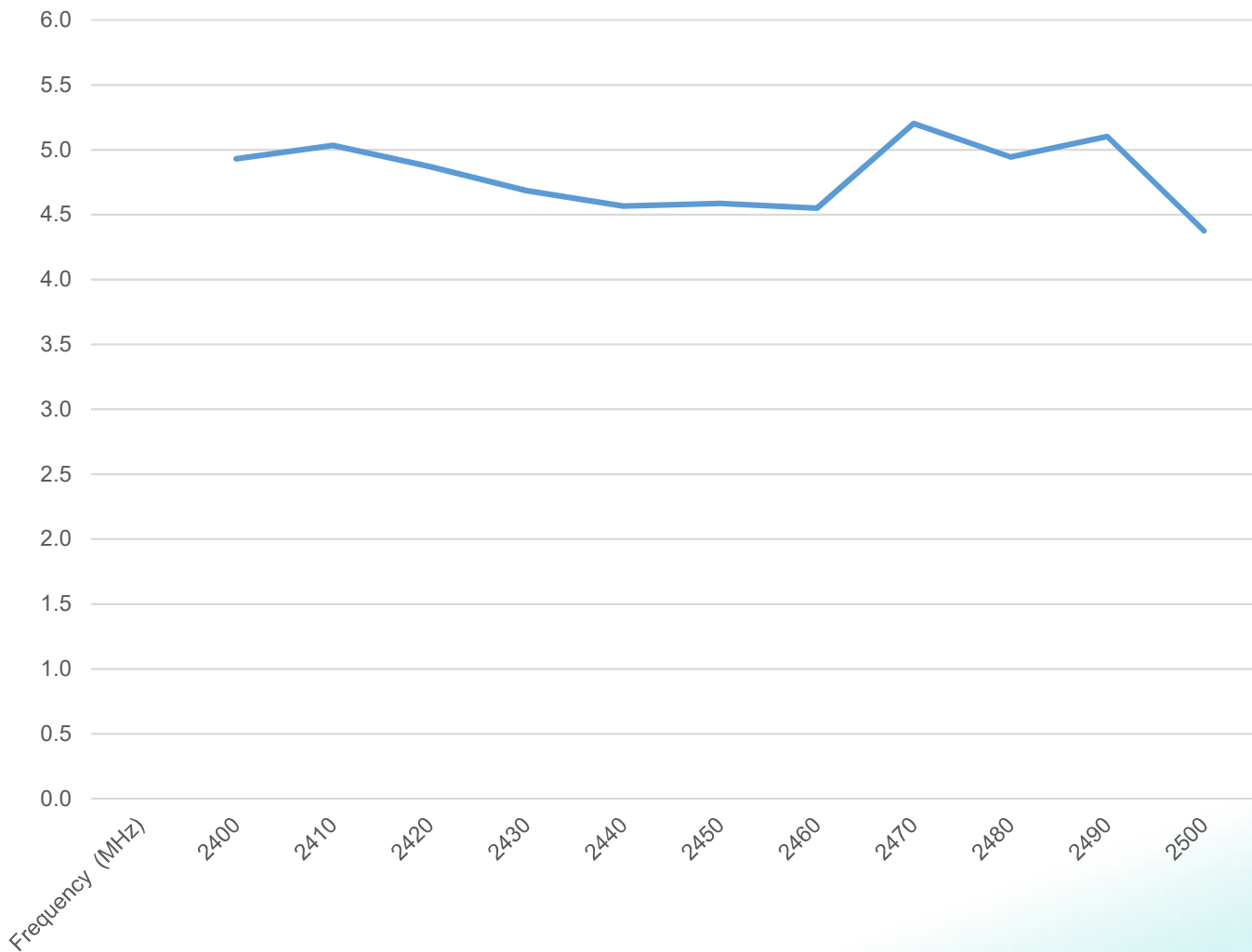
Series: IceFin

**PART NUMBER: ICEFINXXX**

**CHARTS**

Peak Gain (dBi)

ICEFIN24NMOHF  
Peak Gain(dBi)



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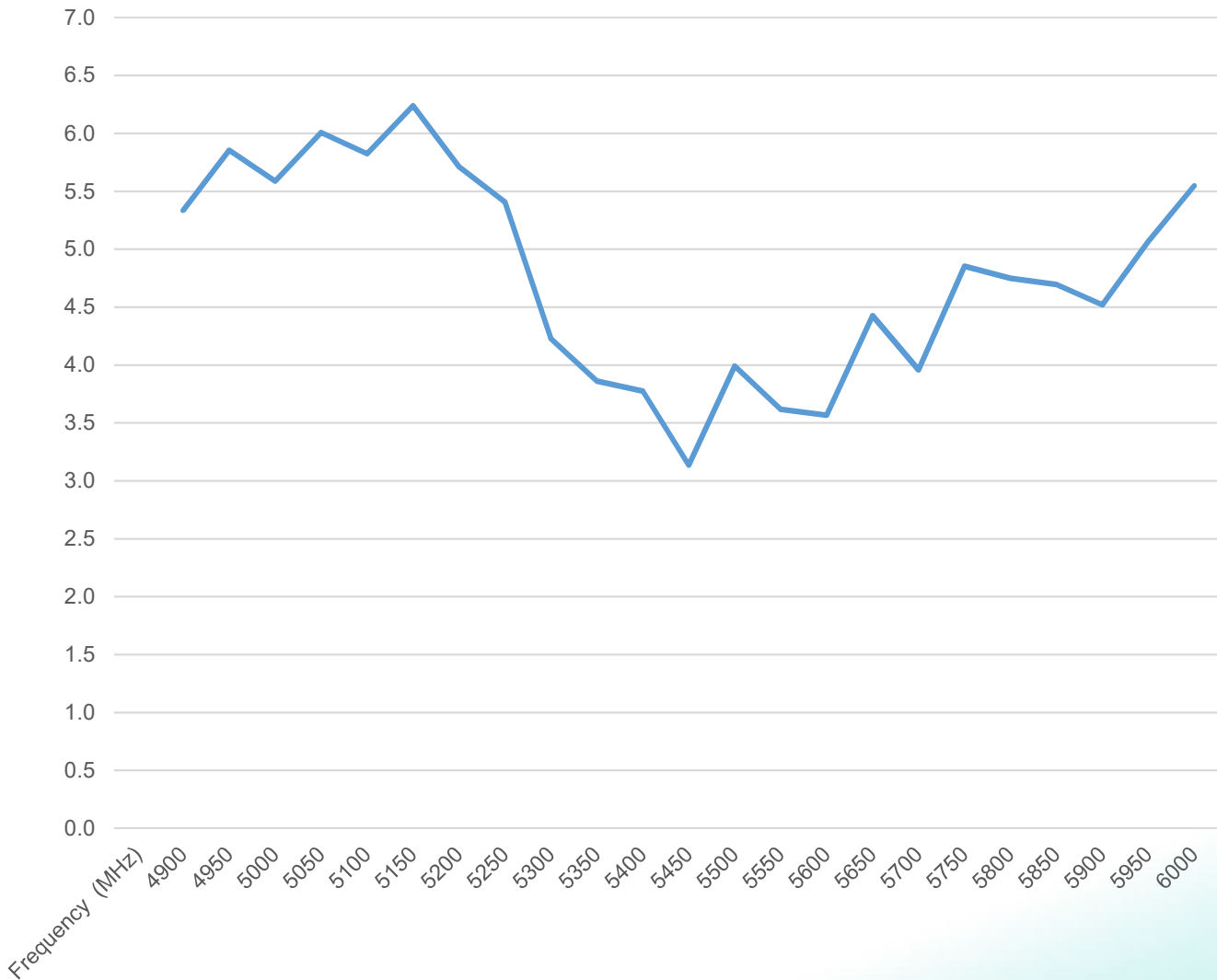
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN49NMOHF  
Peak Gain(dBi)



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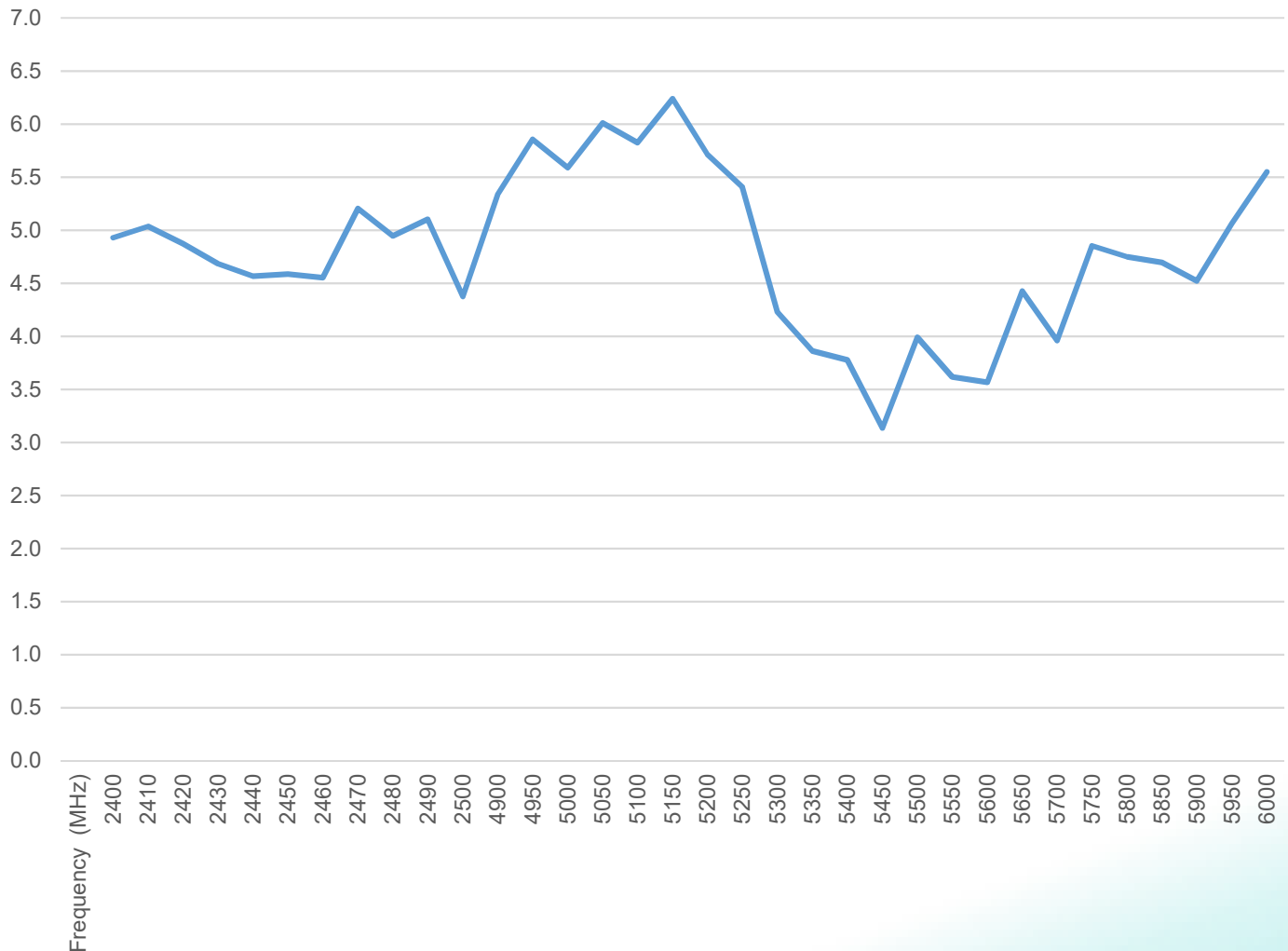
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWNMOHF  
Peak Gain(dBi)



Issue: 1743

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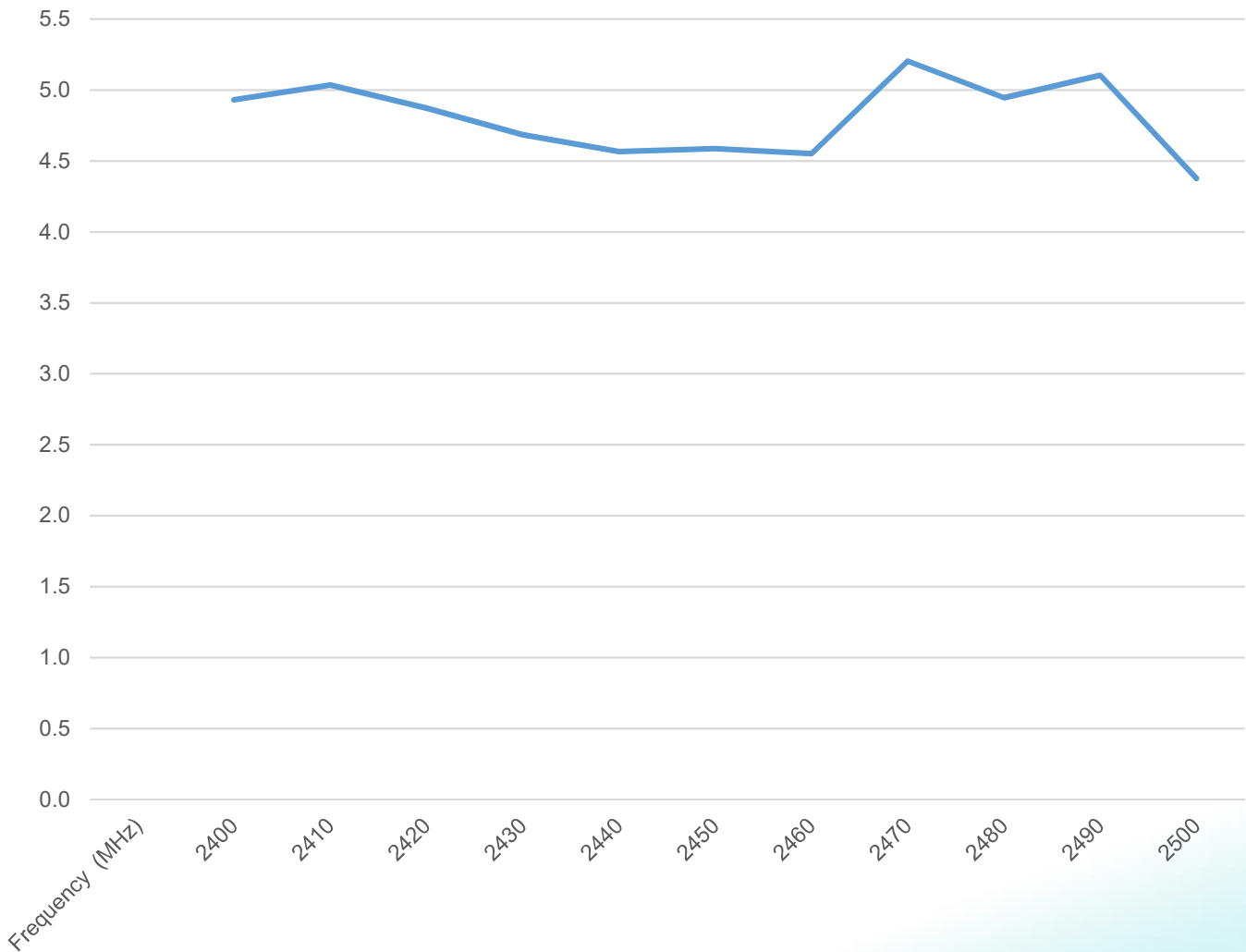
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN24DMN  
Peak Gain(dBi)



Issue: 1743

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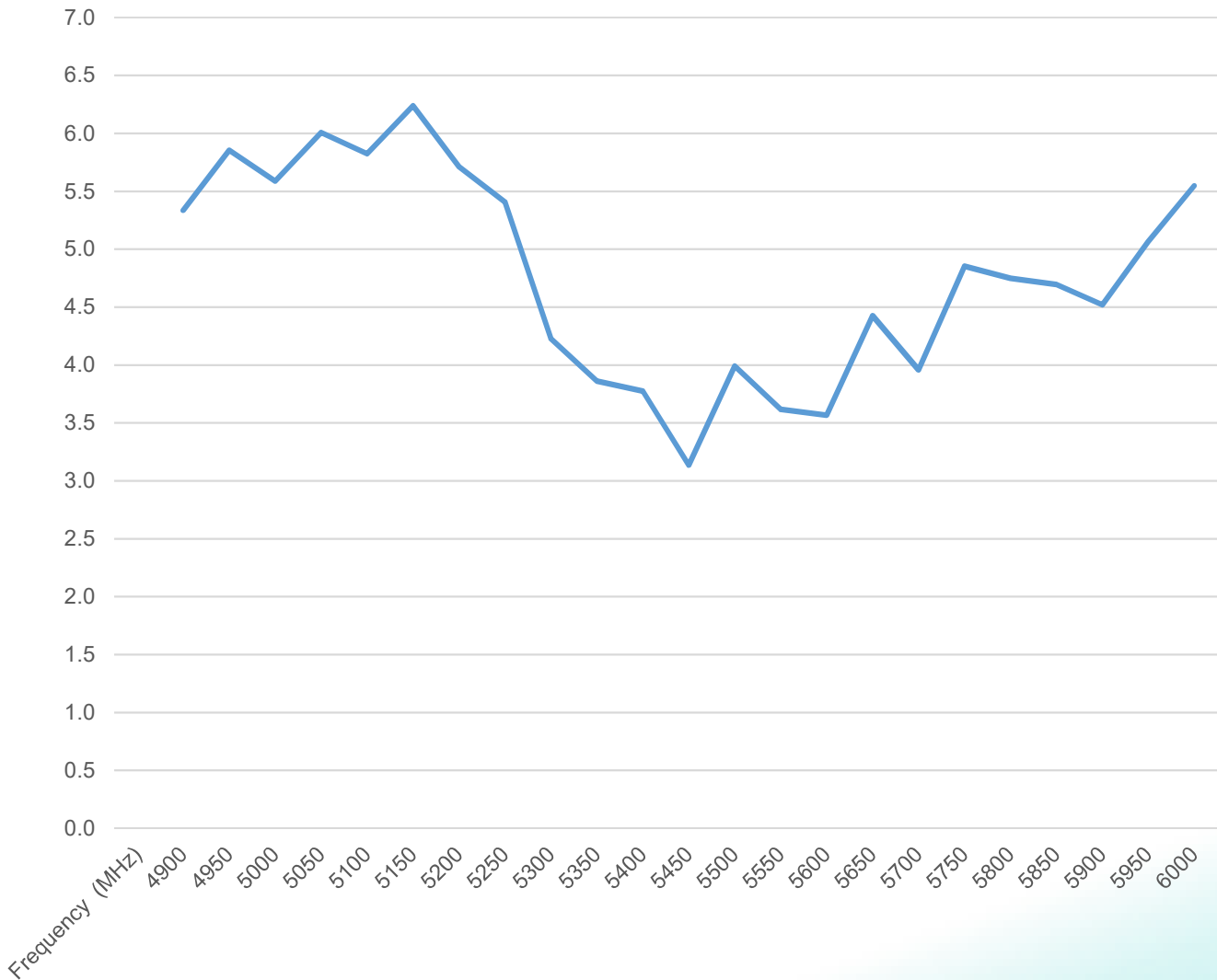
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN49DMN  
Peak Gain(dBi)



Issue: 1743

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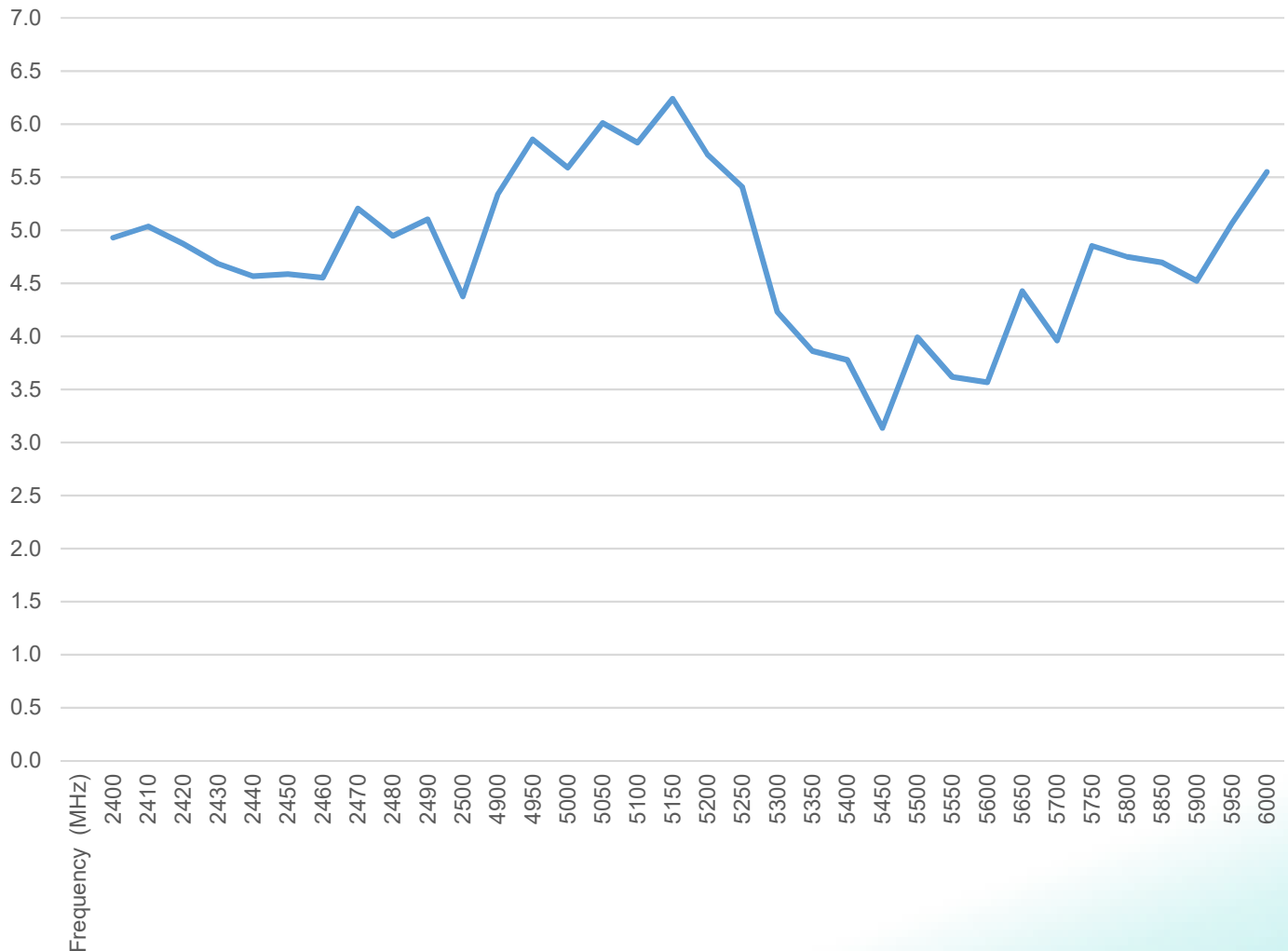
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWDMN  
Peak Gain(dBi)



Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

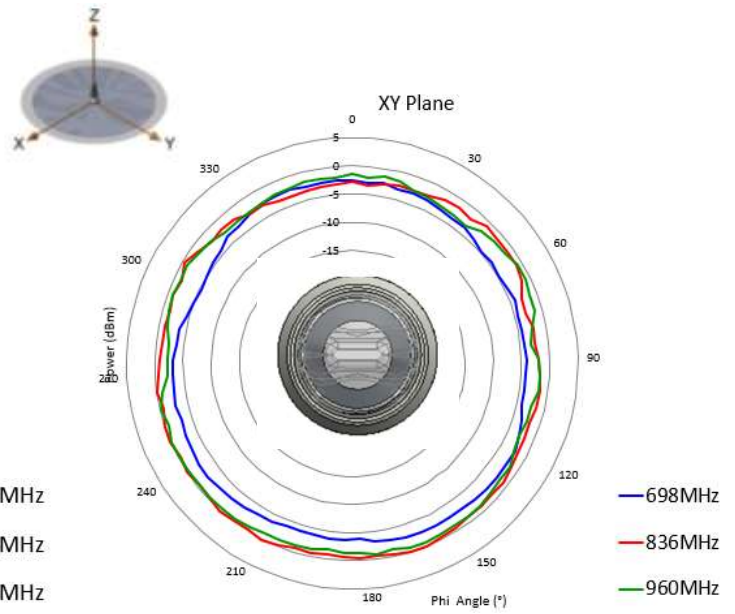
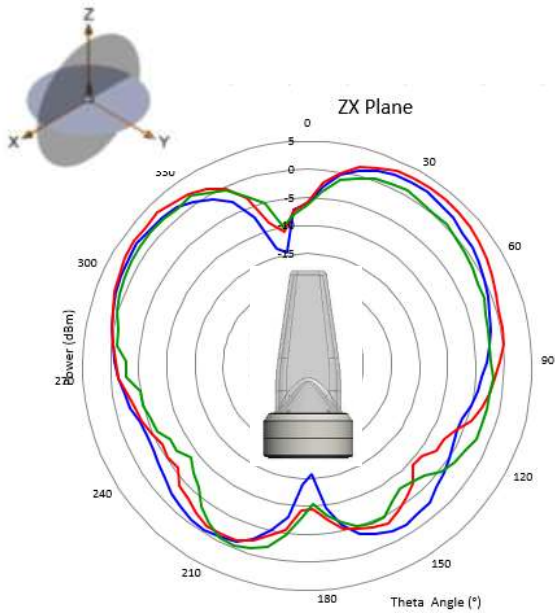
CHARTS

Free Space Radiation Pattern

ICEFINLNMOHF

Elevation Plane

Horizontal Plane



Issue: 1743

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PART NUMBER: ICEFINXXX

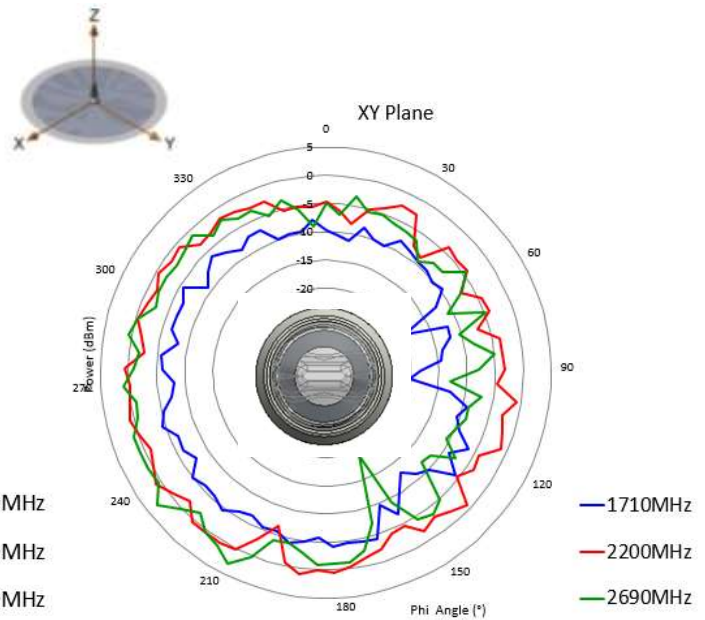
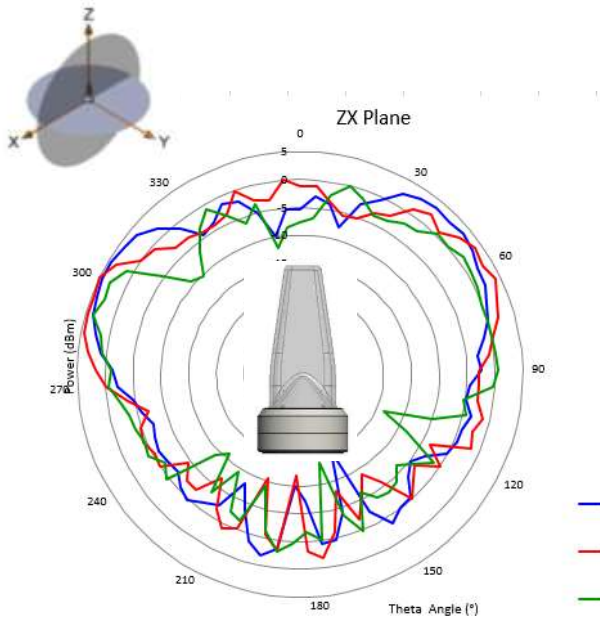
CHARTS

Free Space Radiation Pattern

ICEFINLNMOHF

Elevation Plane

Horizontal Plane



Issue: 1743

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Series: IceFin

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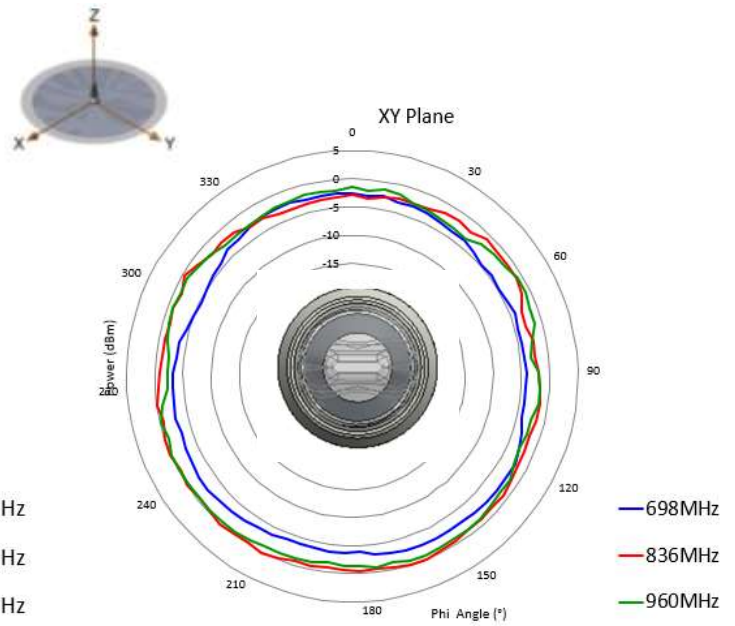
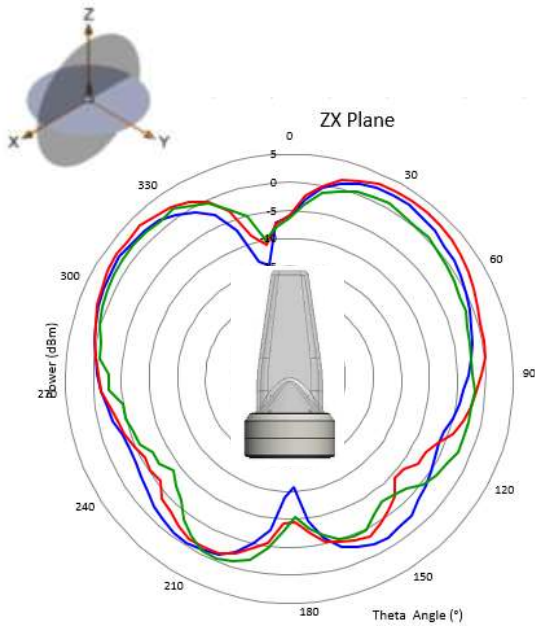
**CHARTS**

Free Space Radiation Pattern

ICEFIN698/960NMO

Elevation Plane

Horizontal Plane



Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

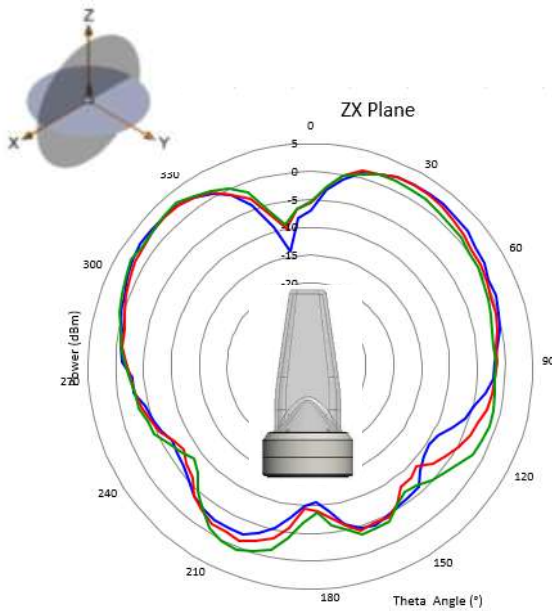
CHARTS

Free Space Radiation Pattern

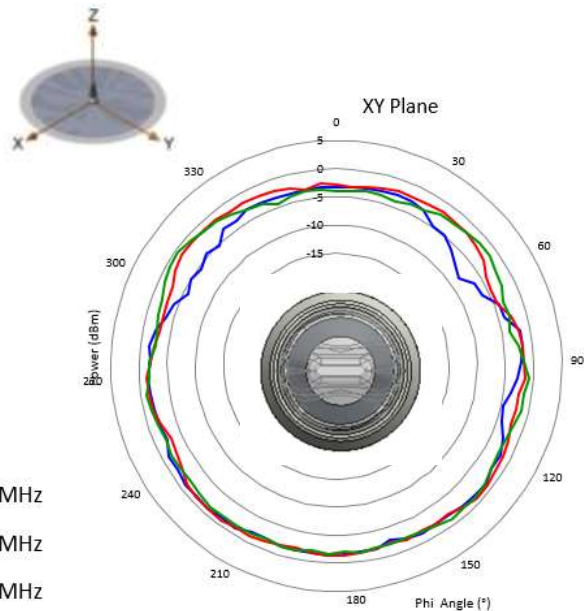
ICEFIN806NMO

Elevation Plane

Horizontal Plane



— 806MHz  
— 889MHz  
— 960MHz



— 806MHz  
— 885MHz  
— 960MHz

Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

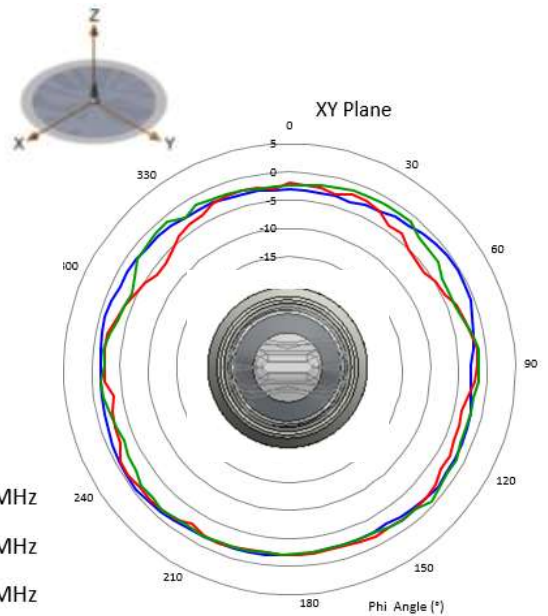
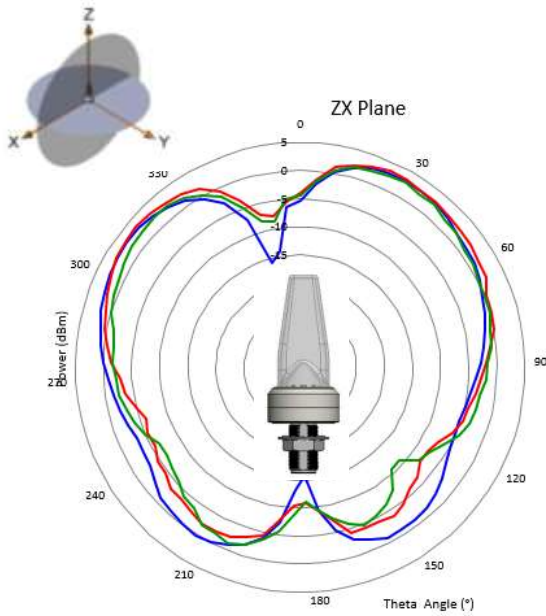
CHARTS

Free Space Radiation Pattern

ICEFIN698/869DMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

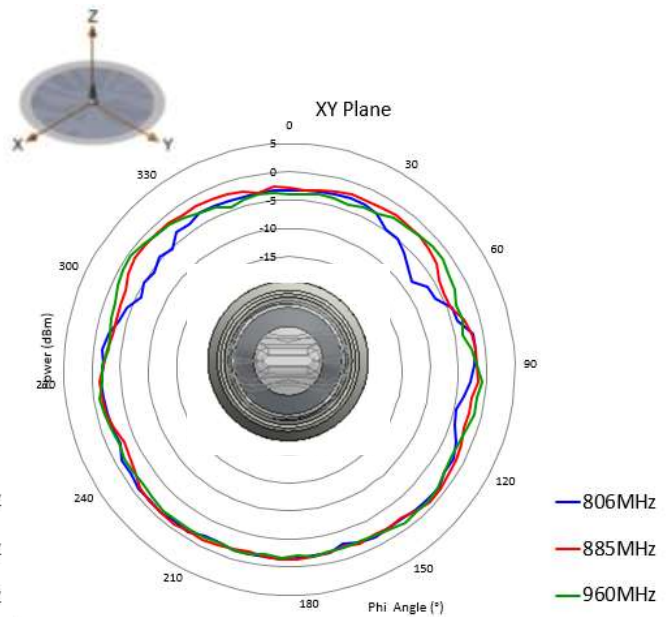
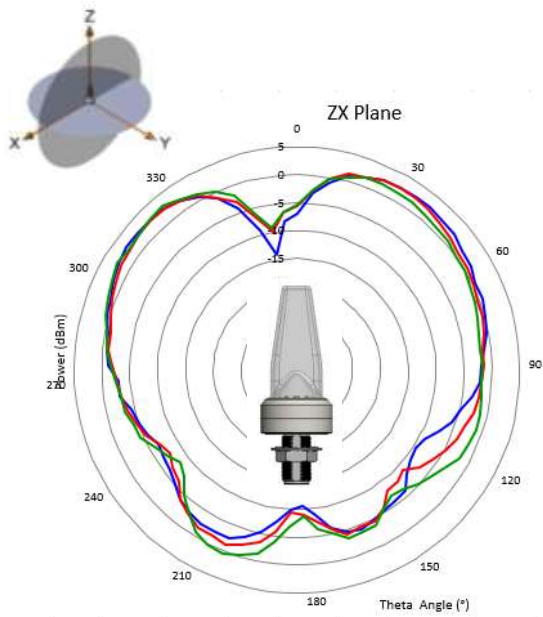
CHARTS

Free Space Radiation Pattern

ICEFIN806DMN

Elevation Plane

Horizontal Plane



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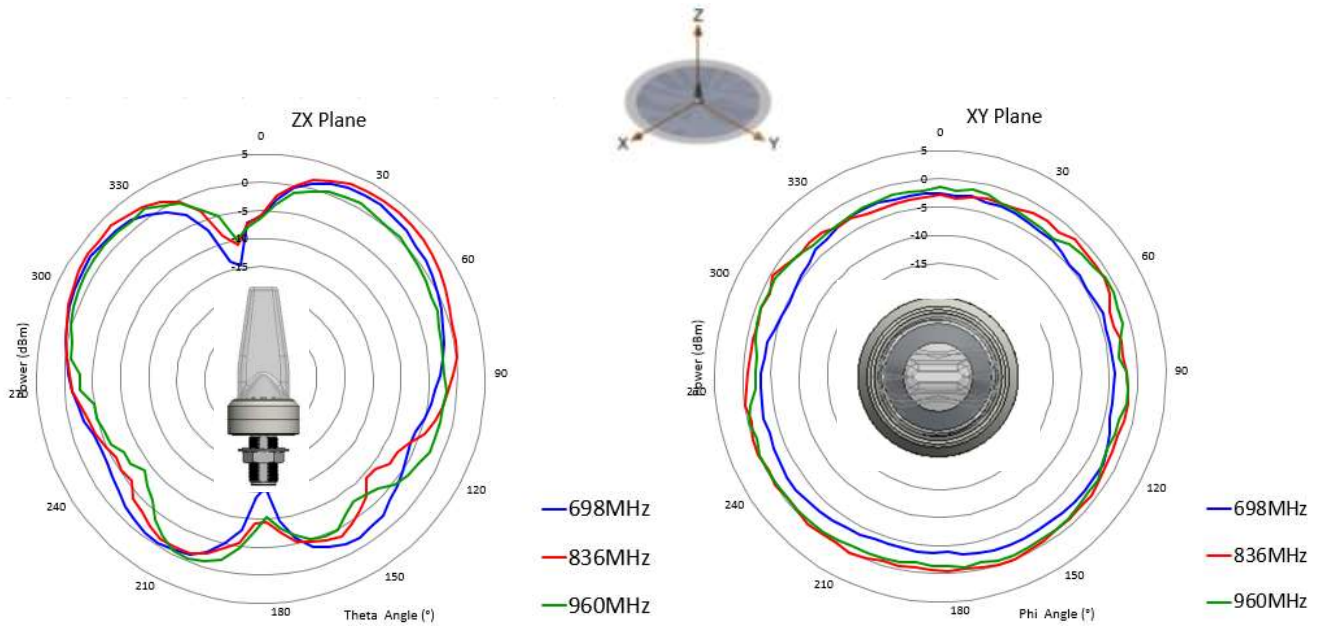
CHARTS

Free Space Radiation Pattern

ICEFINLDMN

Elevation Plane

Horizontal Plane



Issue: 1743

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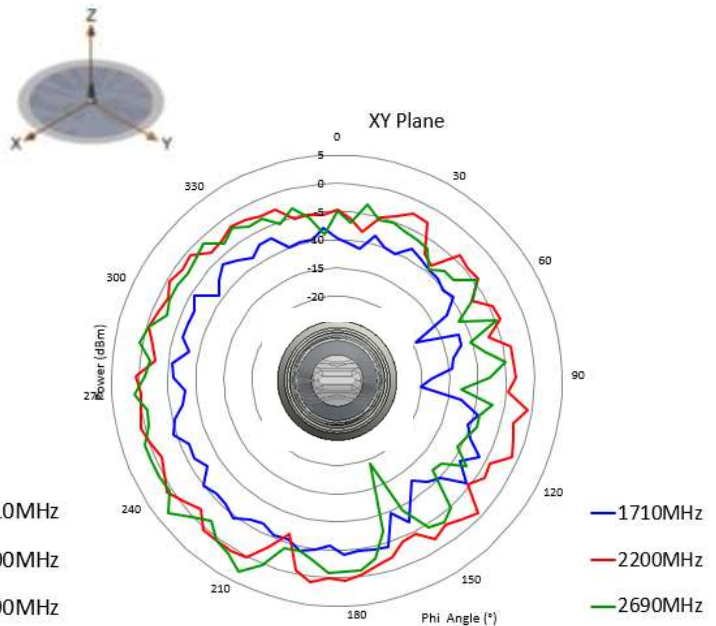
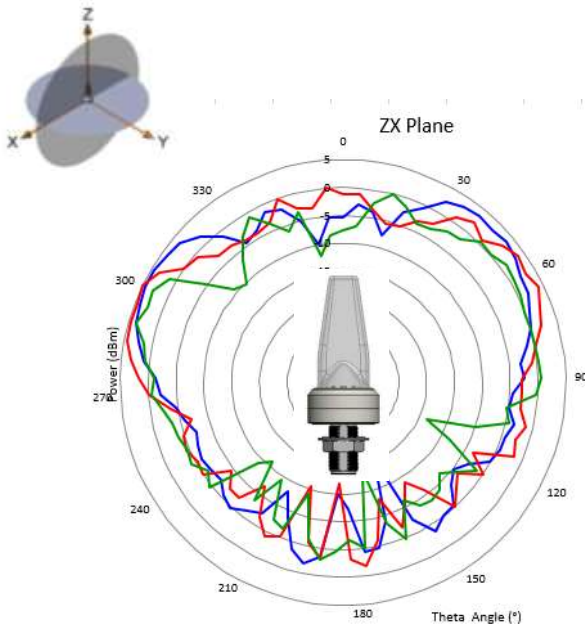
CHARTS

Free Space Radiation Pattern

ICEFINLDMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

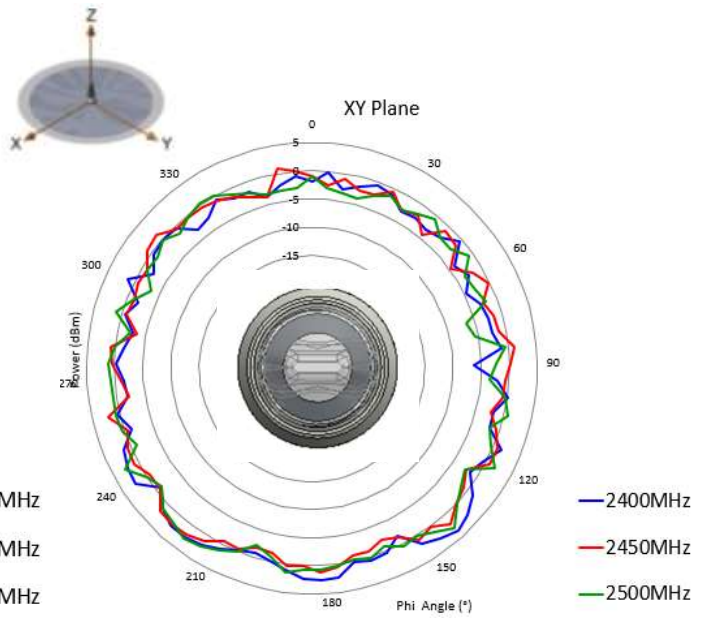
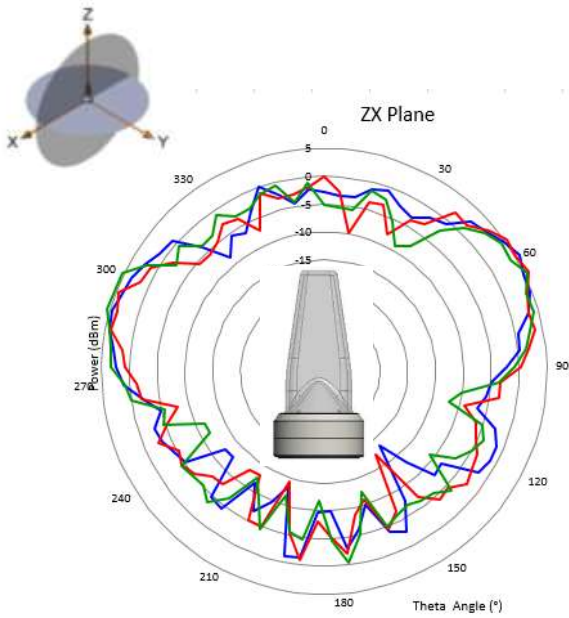
CHARTS

Free Space Radiation Pattern

ICEFIN24NMOHF

Elevation Plane

Horizontal Plane



Issue: 1743

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Series: IceFin

PART NUMBER: ICEFINXXX

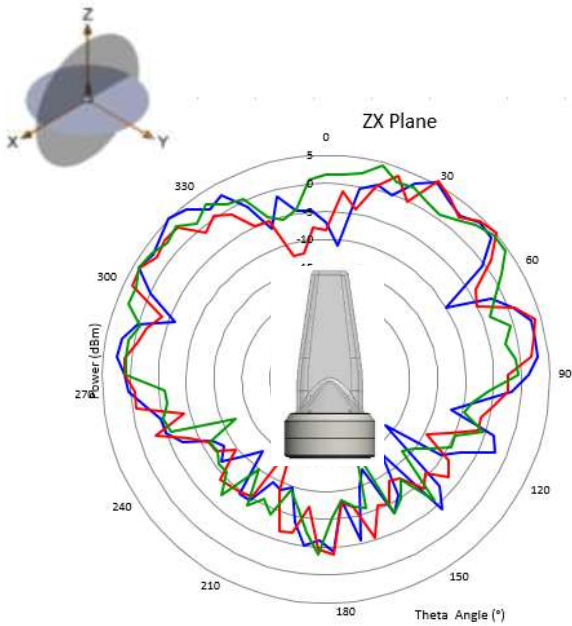
CHARTS

Free Space Radiation Pattern

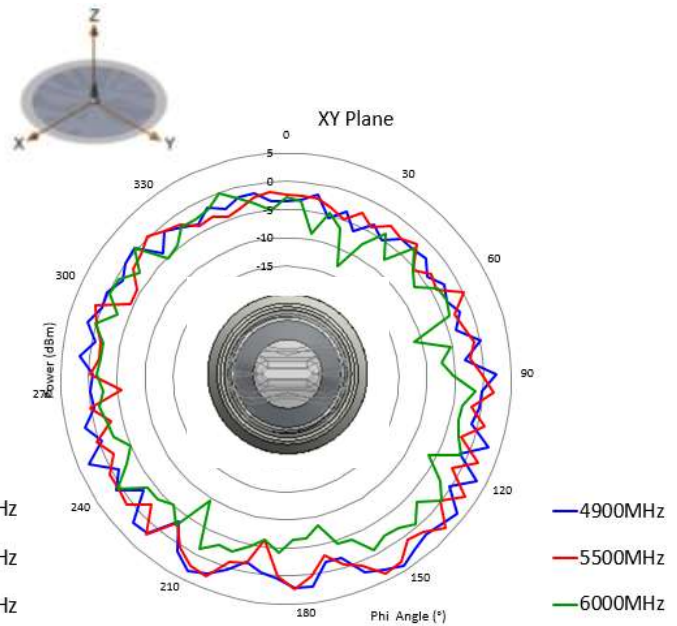
ICEFIN49NMOHF

Elevation Plane

Horizontal Plane



— 4900MHz  
— 5500MHz  
— 6000MHz



— 4900MHz  
— 5500MHz  
— 6000MHz

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

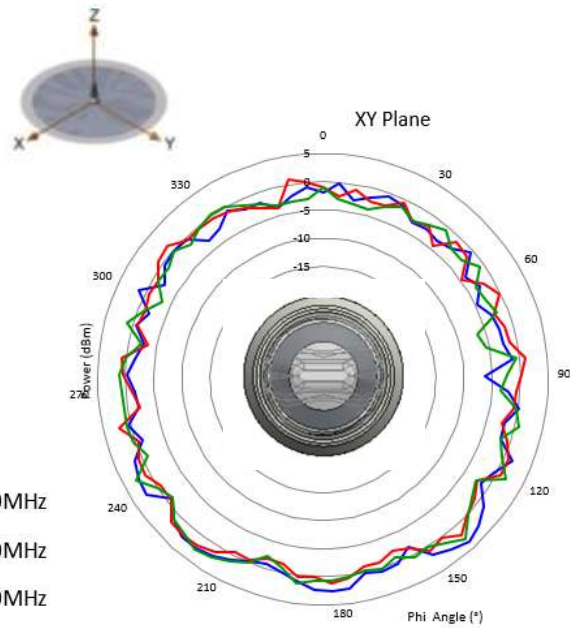
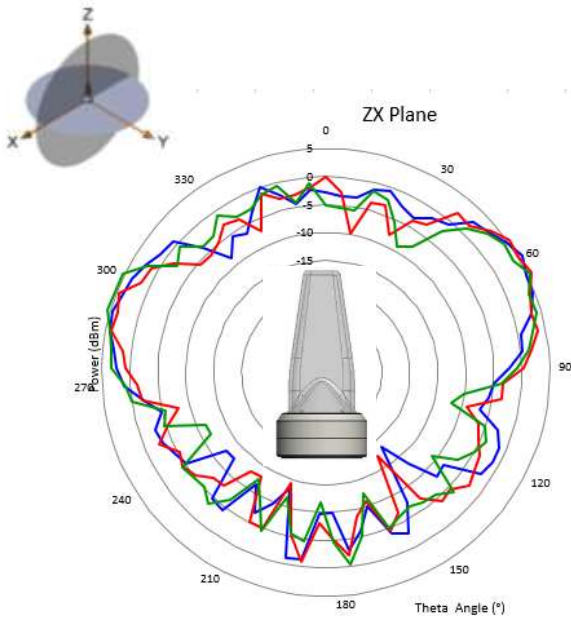
CHARTS

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**

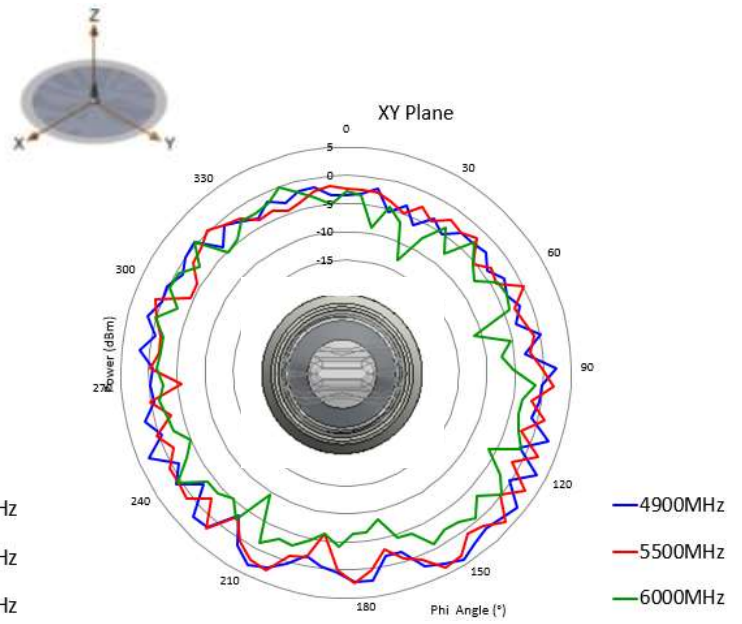
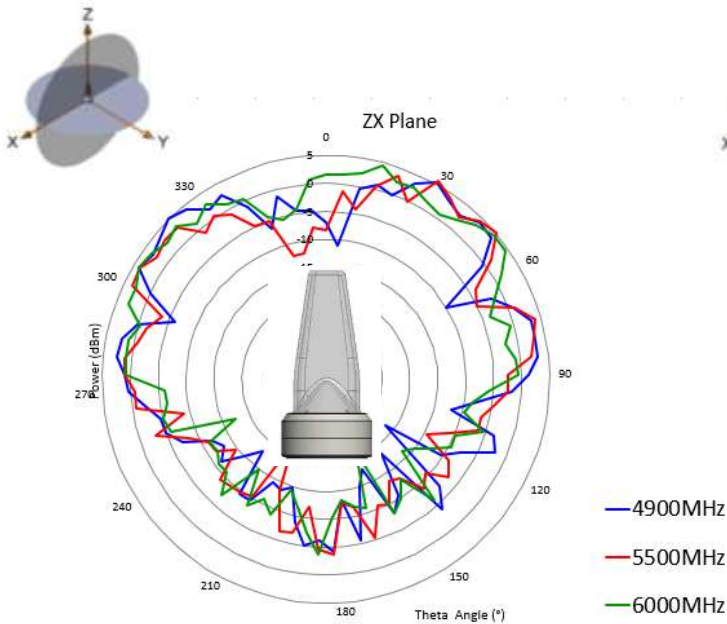
**CHARTS**

Free Space Radiation Pattern

ICEFINWNMOHF

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

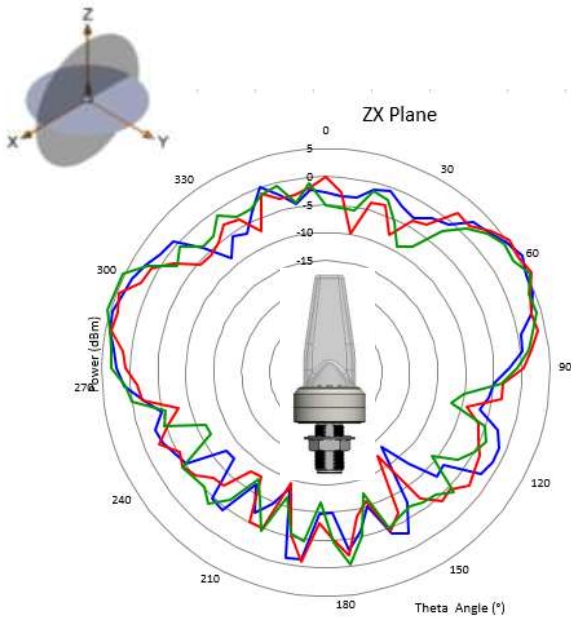
CHARTS

Free Space Radiation Pattern

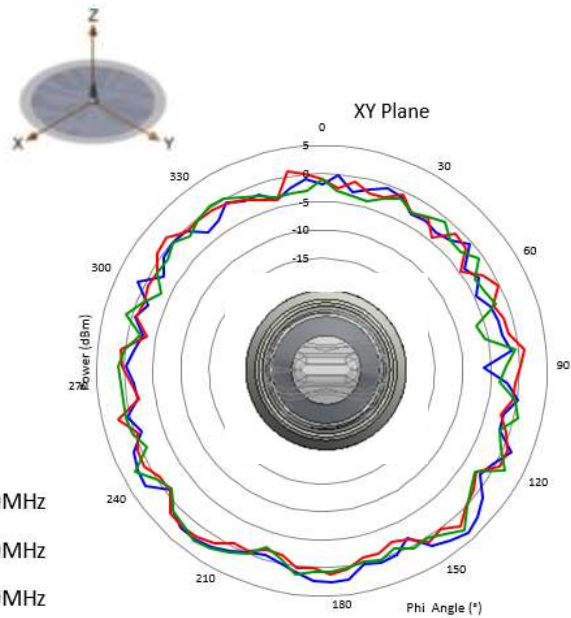
ICEFIN24DMN

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

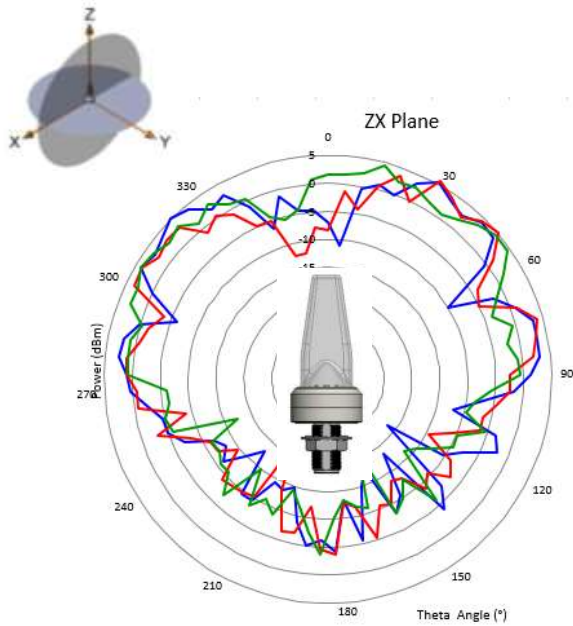
CHARTS

Free Space Radiation Pattern

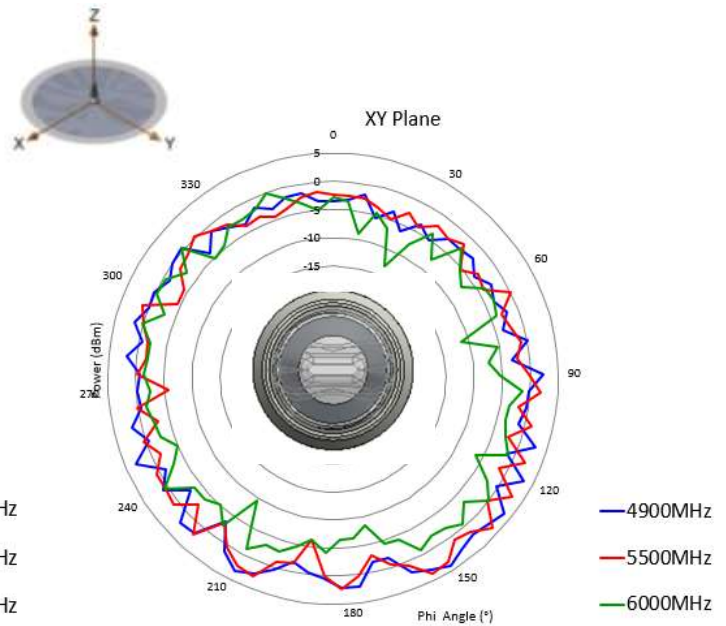
ICEFIN49DMN

Elevation Plane

Horizontal Plane



— 4900MHz  
— 5500MHz  
— 6000MHz



— 4900MHz  
— 5500MHz  
— 6000MHz

Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

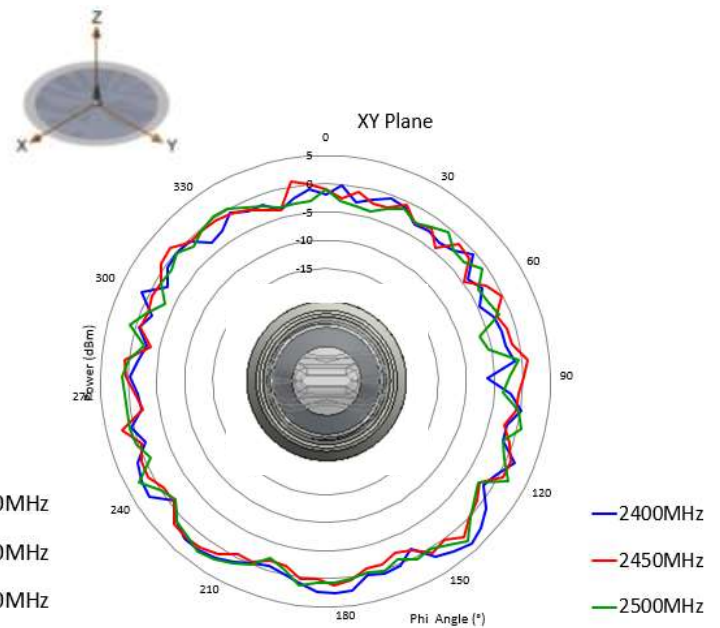
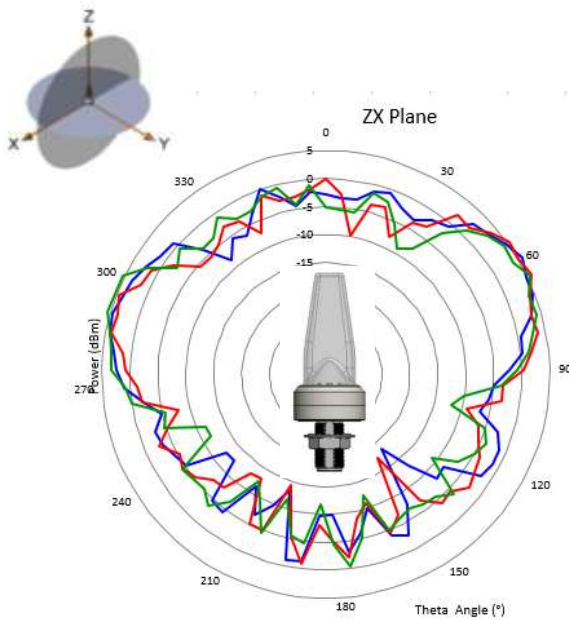
CHARTS

Free Space Radiation Pattern

ICEFINWDMN

Elevation Plane

Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

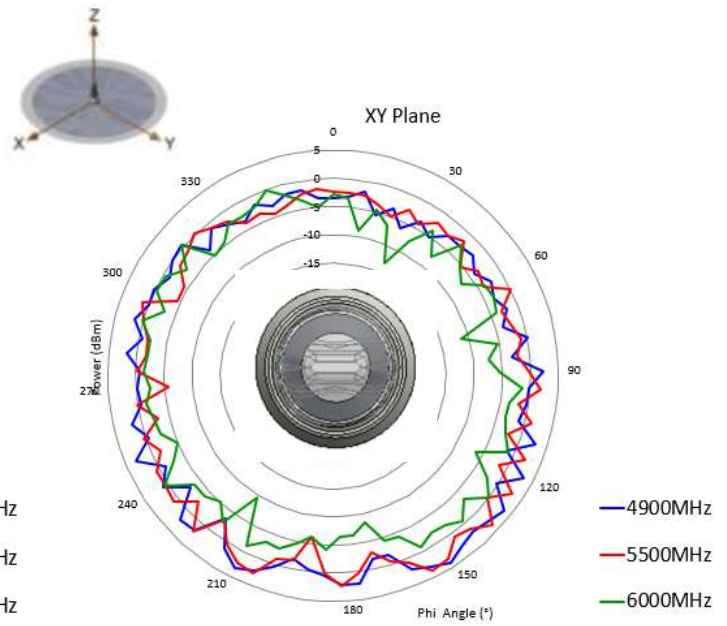
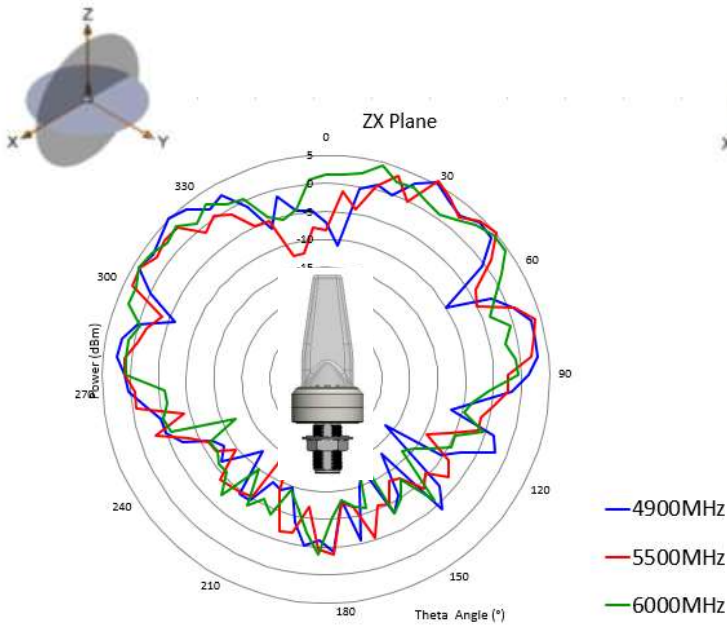
CHARTS

Free Space Radiation Pattern

ICEFINWDMN

Elevation Plane

Horizontal Plane



Issue: 1743

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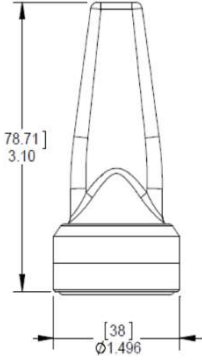

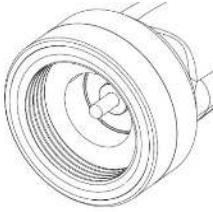
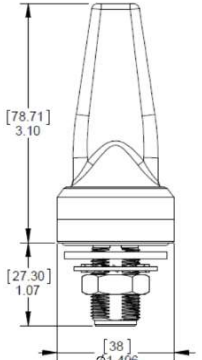
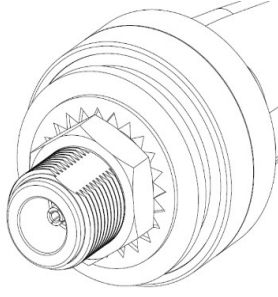
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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

**PACKAGING**

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

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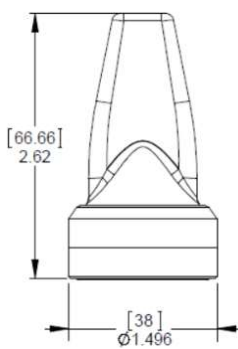
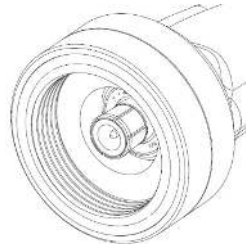
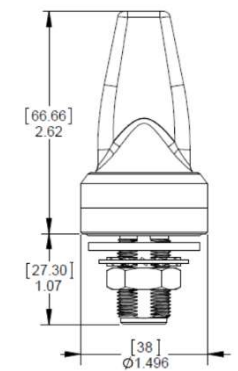
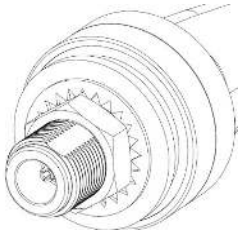


Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

**PACKAGING**

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

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