

## Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

**PART NUMBER: ICEFINXXX**

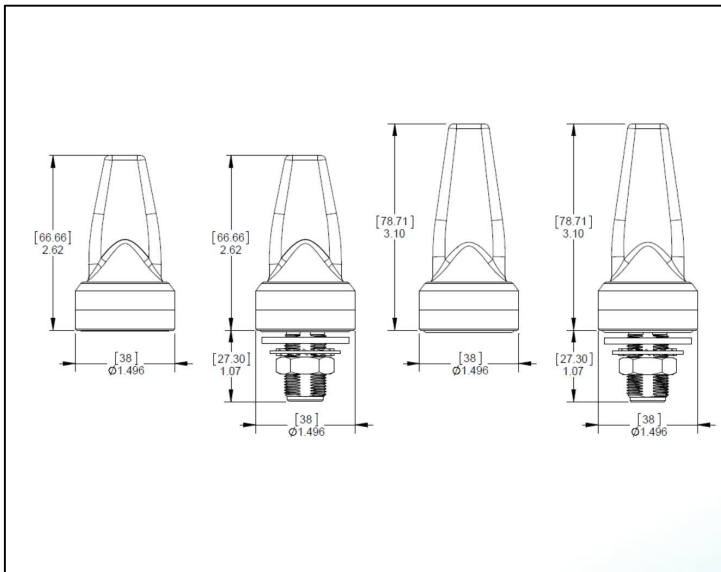


### Features:

- 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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Tel: 86 512 6807 9998

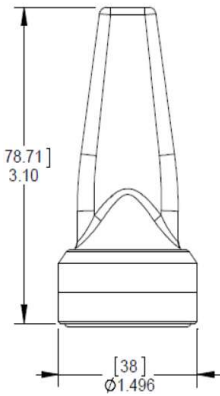
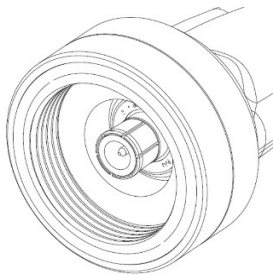
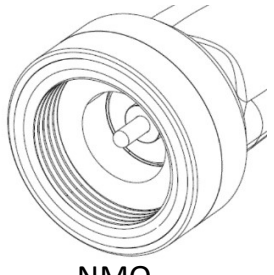
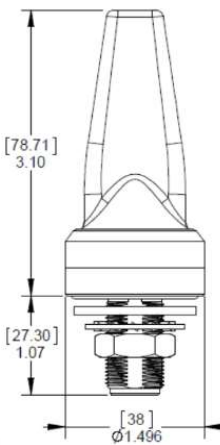
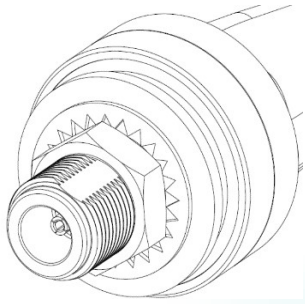


Description: LOW PROFILE MULTIBAND  
ANTENNA

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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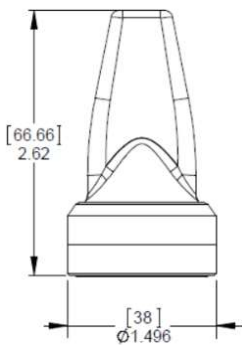
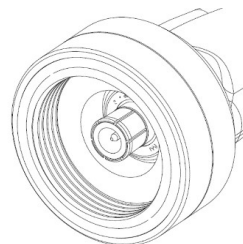
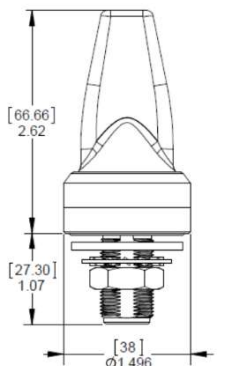
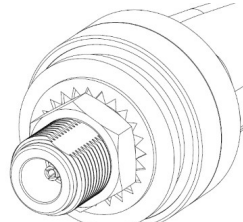
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Description: LOW PROFILE MULTIBAND ANTENNA

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		 <b>NMOHF</b> NMO + HF Connector
ICEFIN49NMOHF	Clarity	4900-6000MHz		
ICEFINWNNMOHF	Clarity	2400-2500MHz 4900-6000MHz		
ICEFIN24DMN	Clarity	2400-2500MHz		 <b>Direct Mount</b> N Female Connector (Screw 5/18-24 UNEF 2A)
ICEFIN49DMN	Clarity	4900-6000MHz		
ICEFINWDDMN	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

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### 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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### 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)
ICEFINWNNMOHF	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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### MECHANICAL SPECIFICATIONS

Plastic radome	PC
Color	Clarity
Ingress Protection	IP67

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 ~ +85° C
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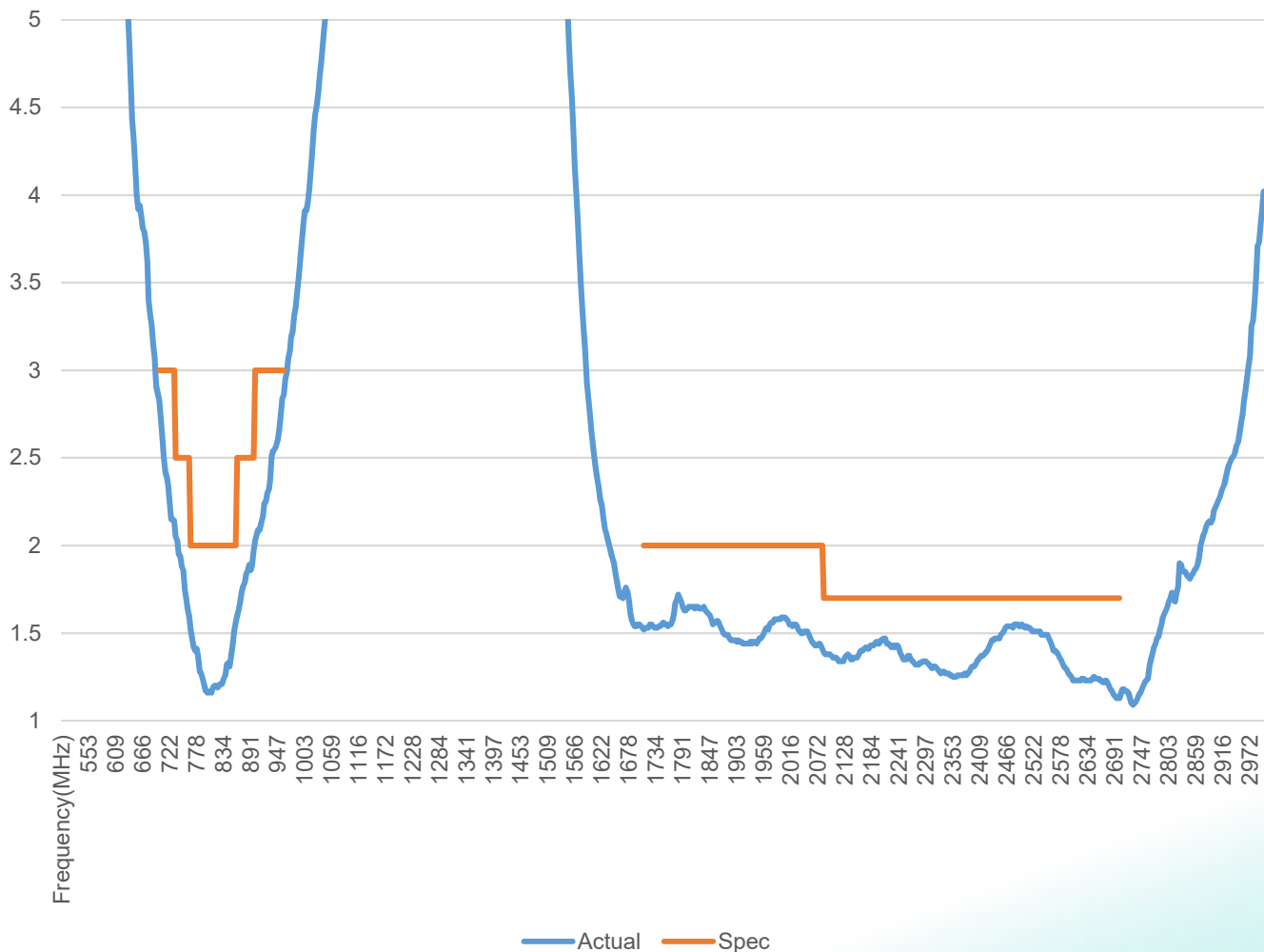
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## CHARTS

### VSWR

ICEFINLNMOHF  
VSWR



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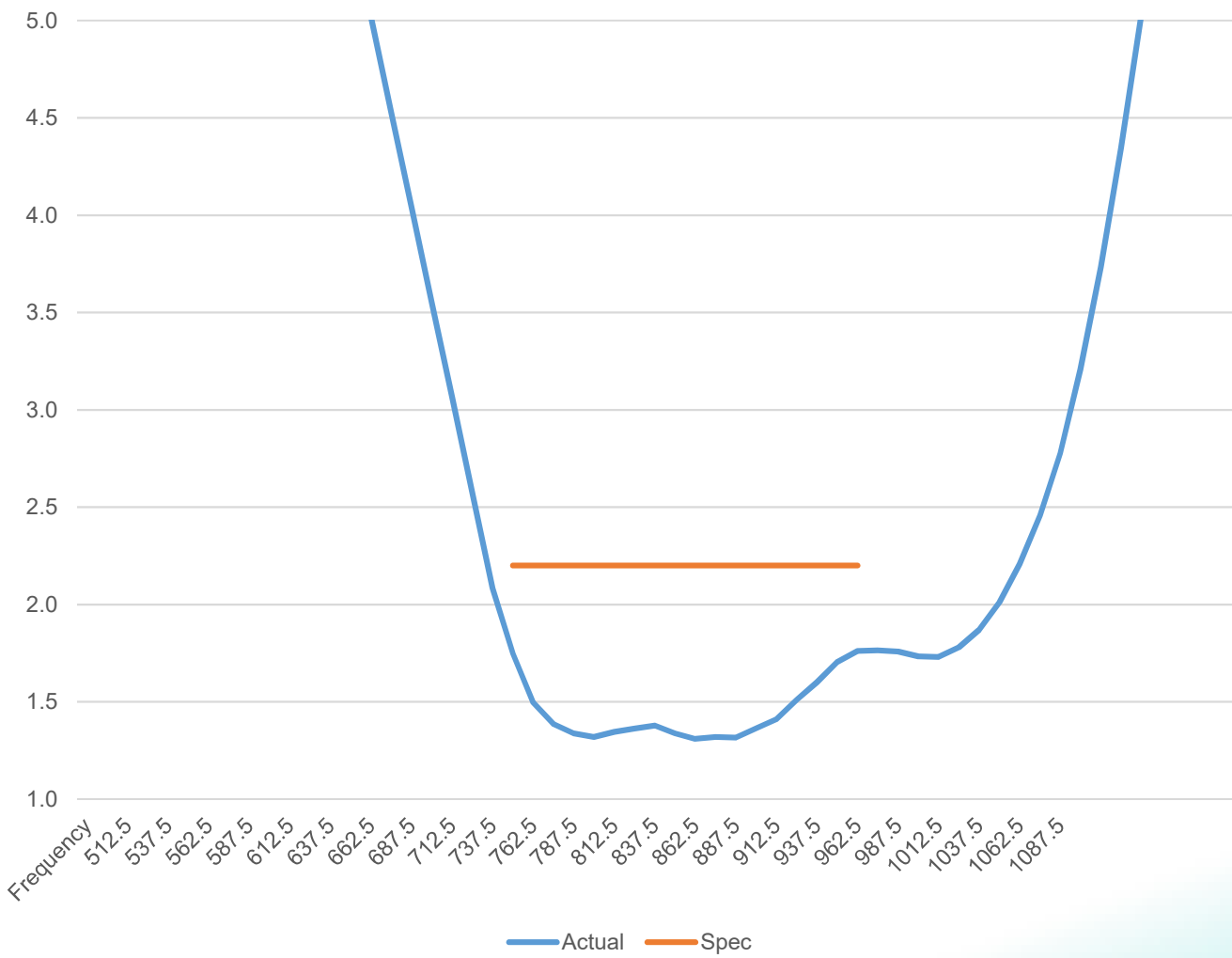
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CHARTS

VSWR

ICEFIN698/960NMO  
VSWR



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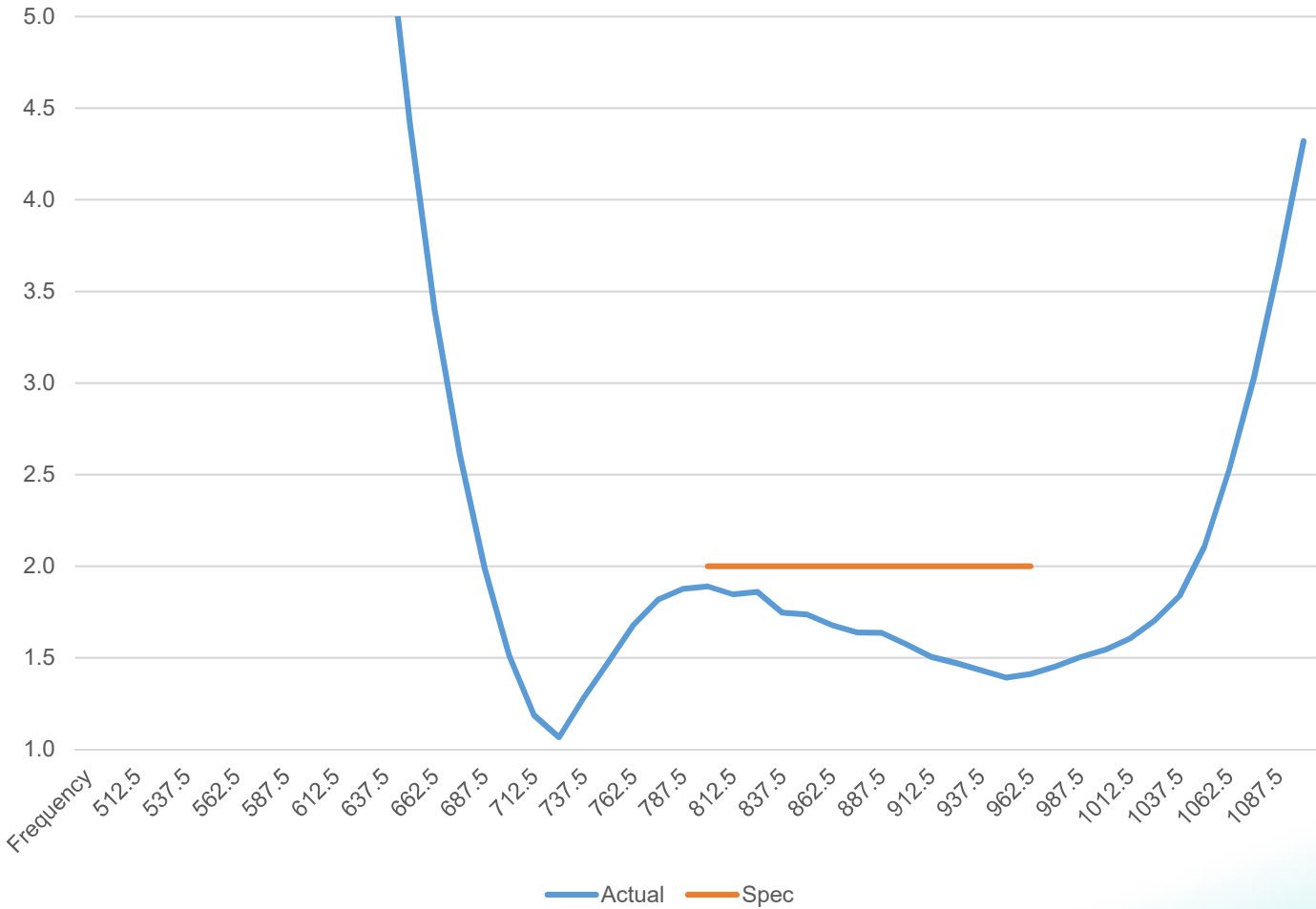
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CHARTS

VSWR

ICEFIN806NMO  
VSWR



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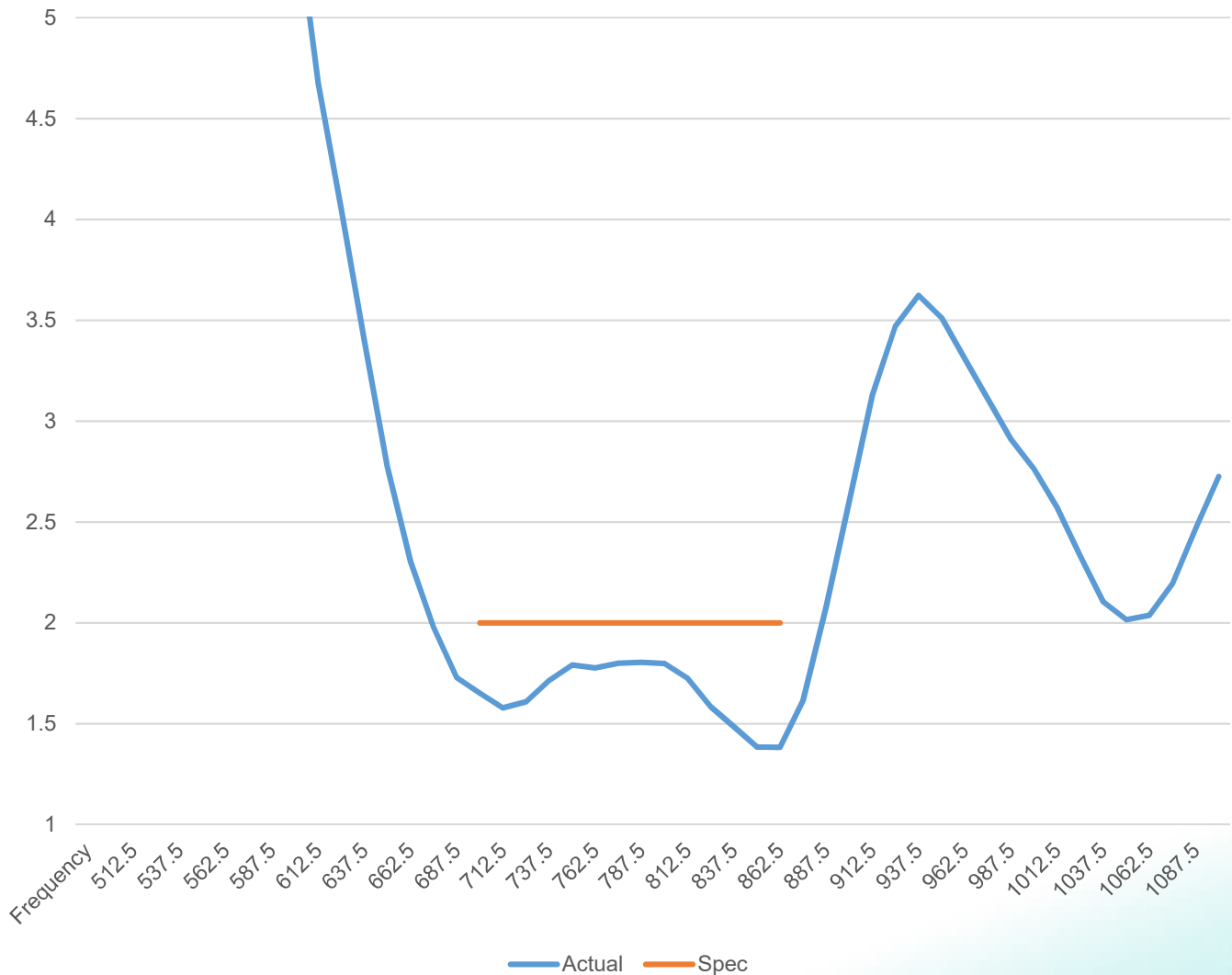
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## CHARTS

### VSWR

#### ICEFIN698/869DMN VSWR



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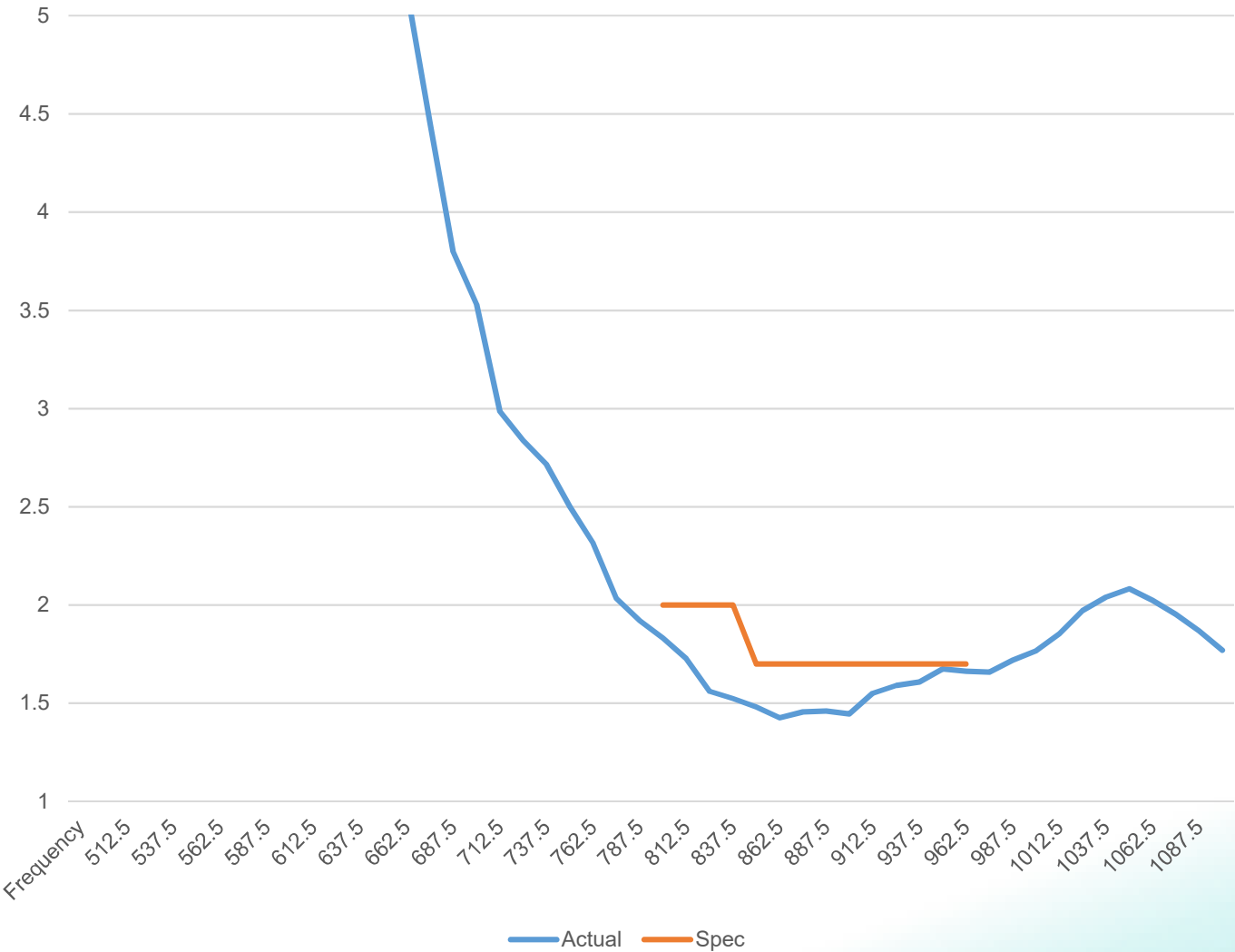
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CHARTS

VSWR

ICEFIN806DMN  
VSWR



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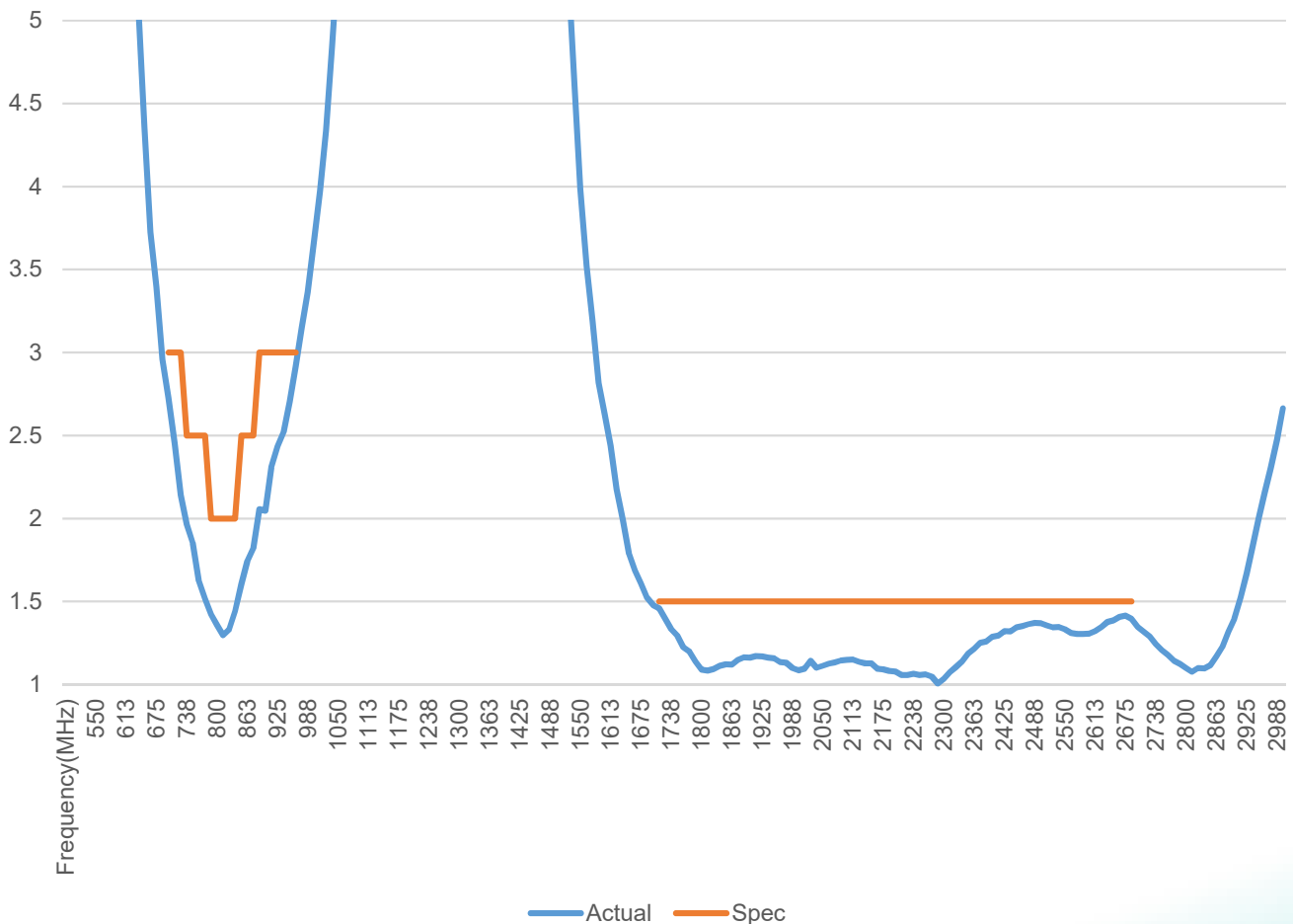
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## CHARTS

### VSWR

#### ICEFINLDMN VSWR



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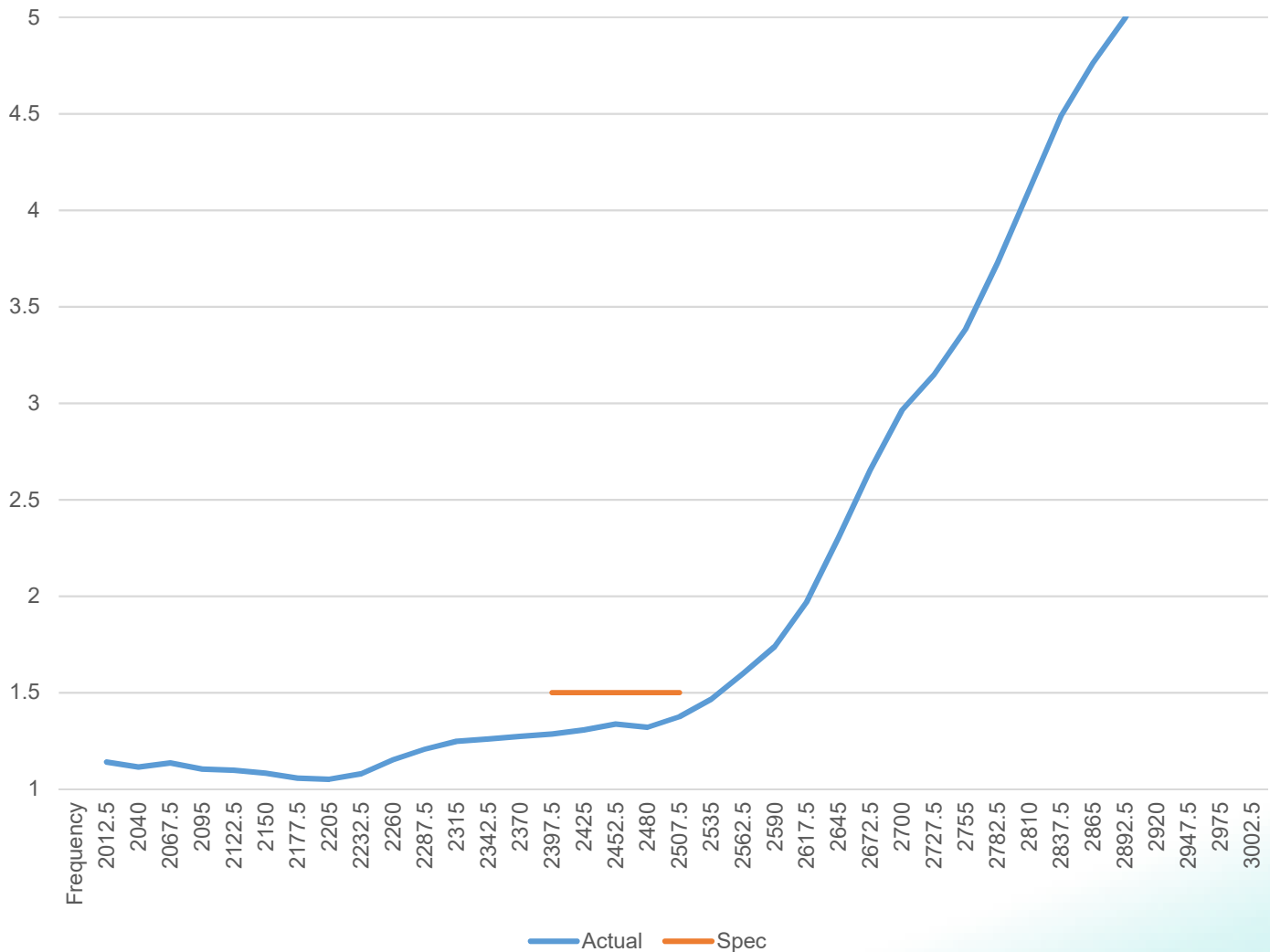
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## CHARTS

### VSWR

#### ICEFIN24NMOHF VSWR



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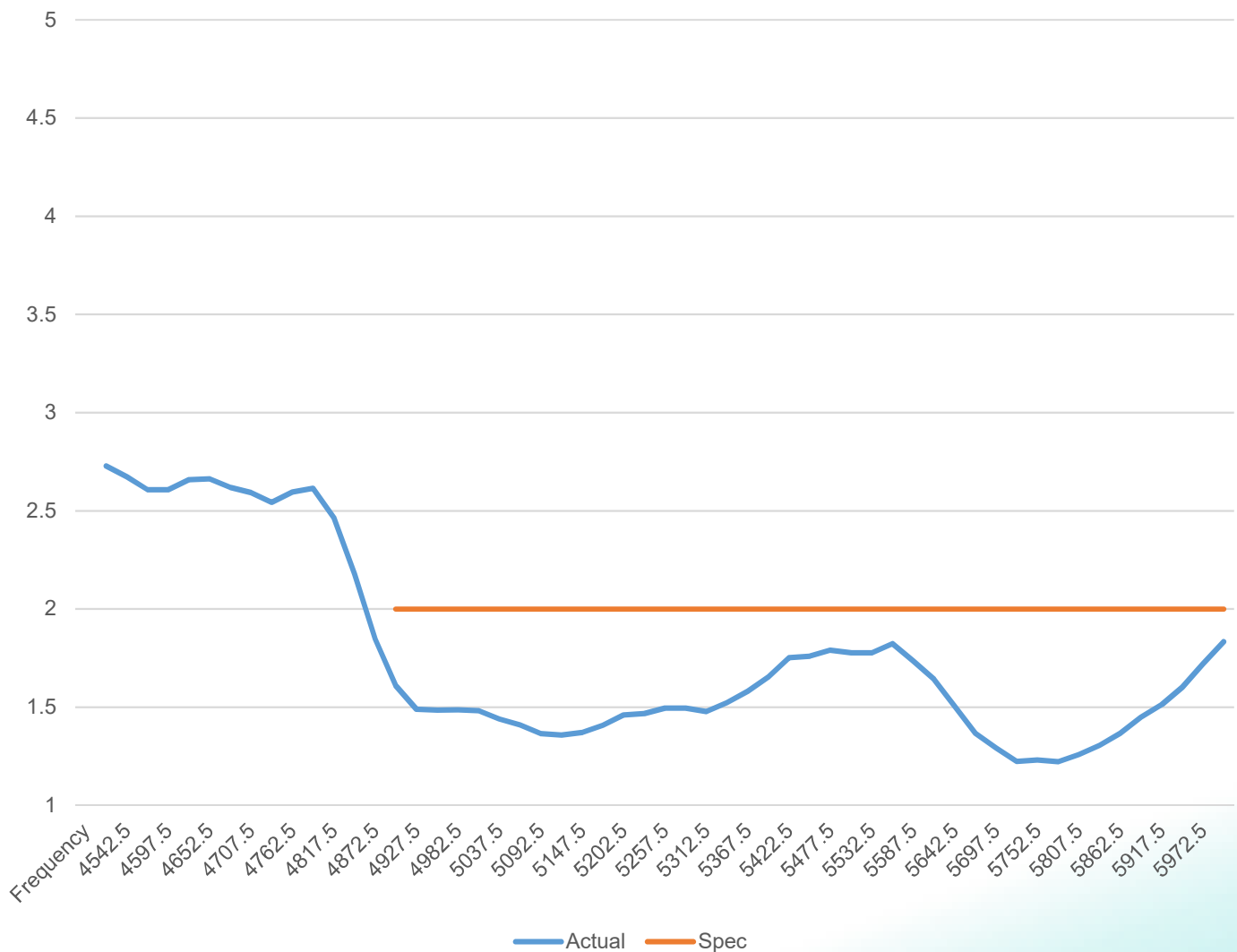
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## CHARTS

### VSWR

ICEFIN49NMOHF  
VSWR



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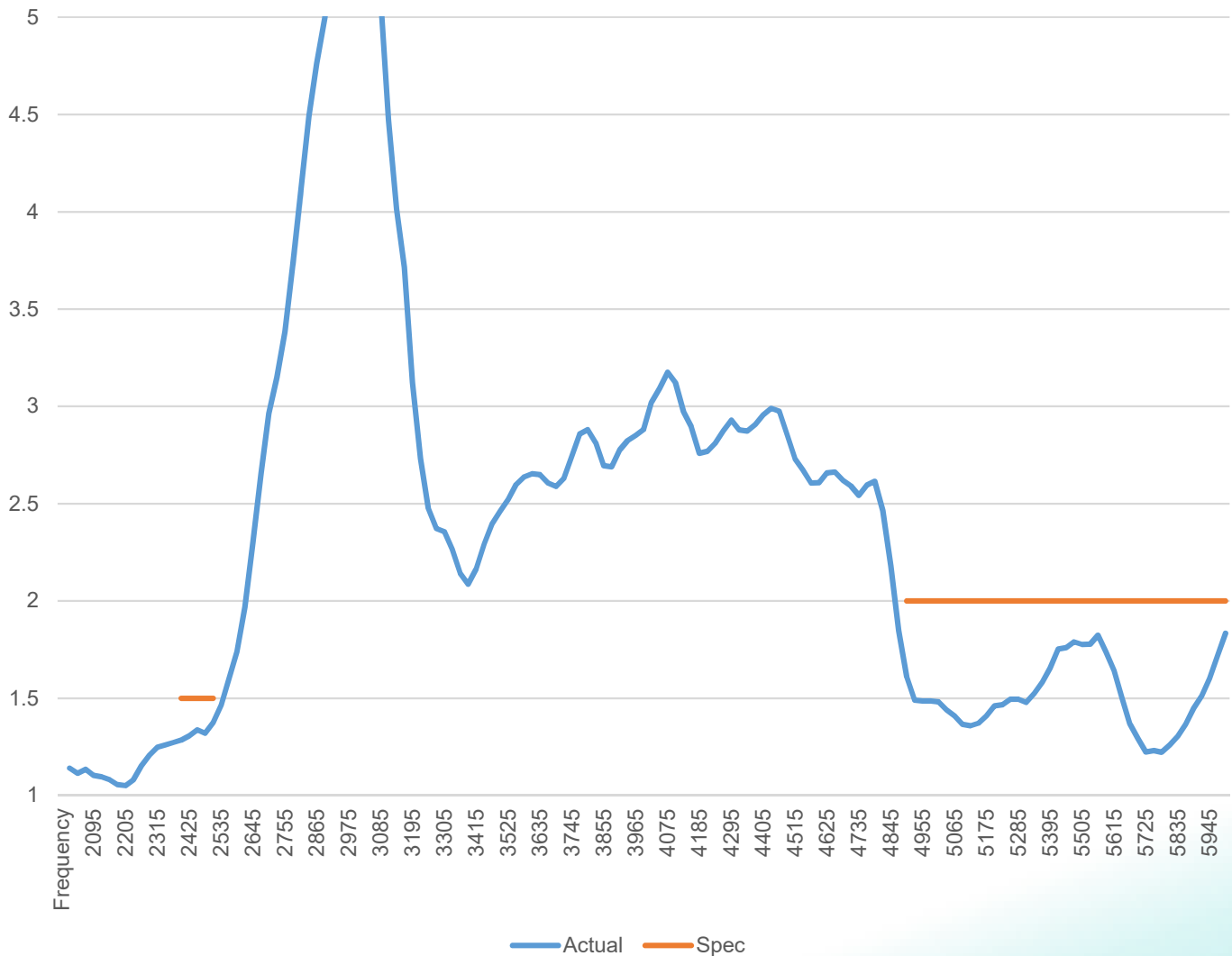
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## CHARTS

### VSWR

#### ICEFINWNMOHF VSWR



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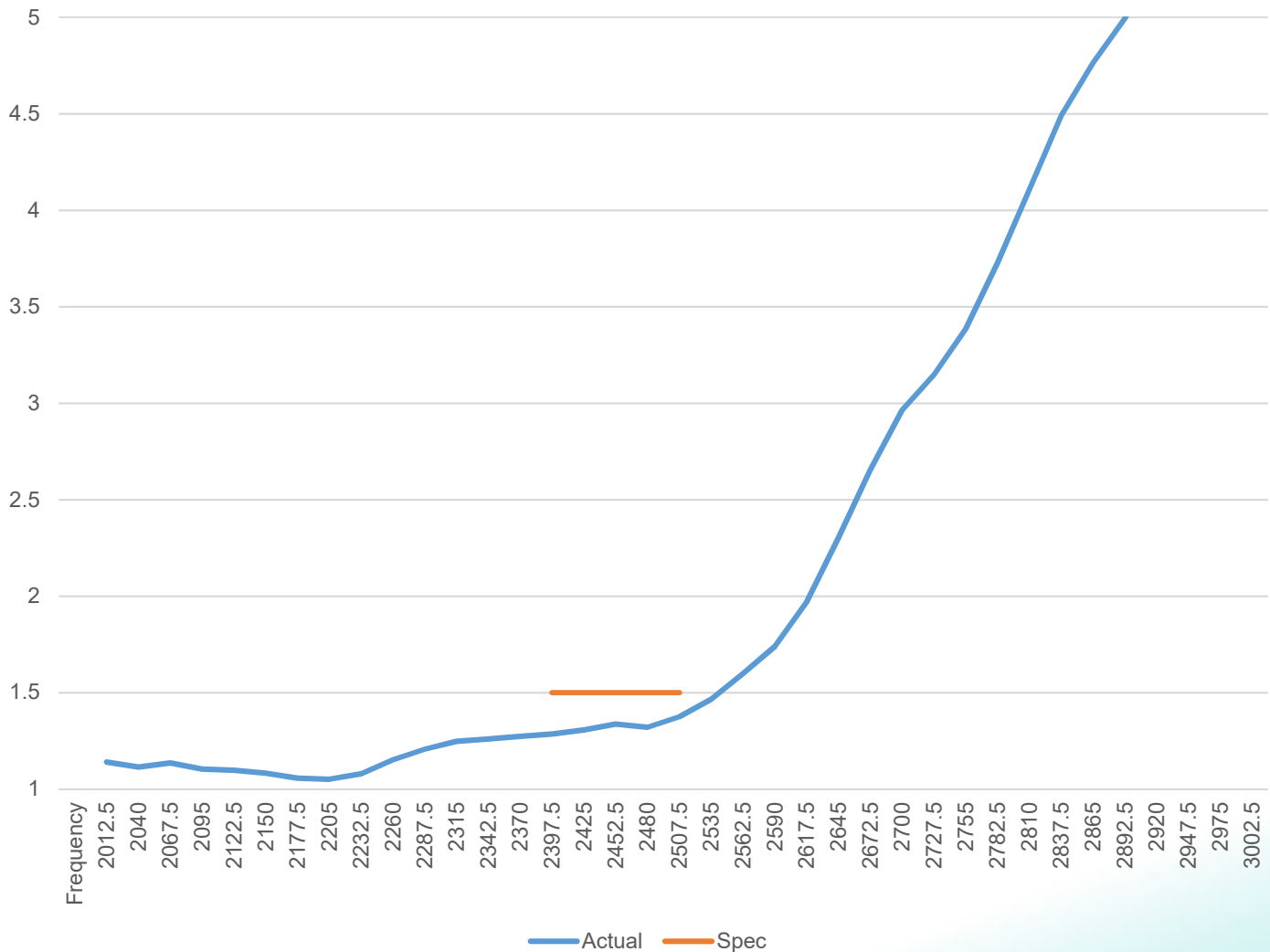
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## CHARTS

### VSWR

#### ICEFIN24DMN VSWR



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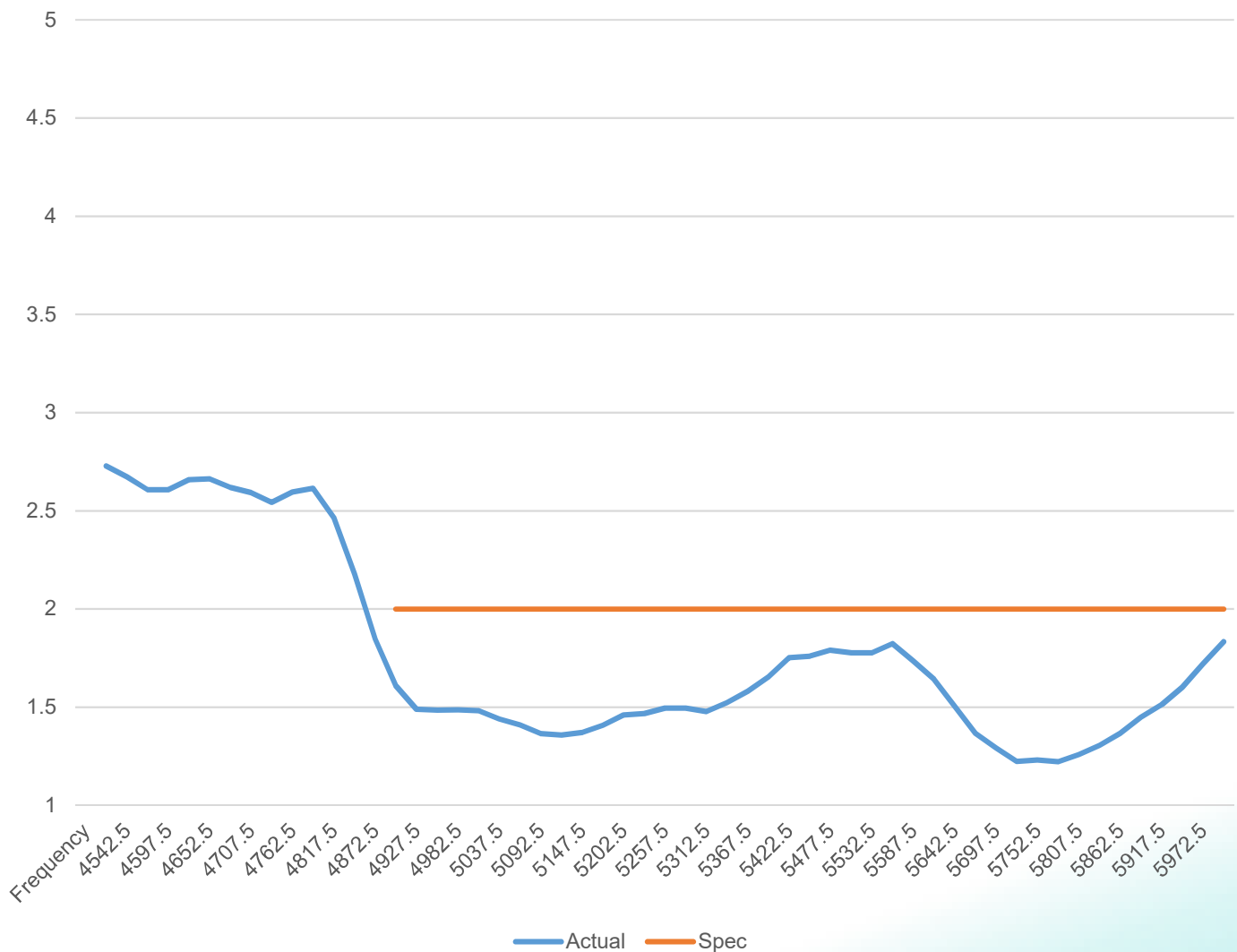
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## CHARTS

### VSWR

#### ICEFIN49DMN VSWR



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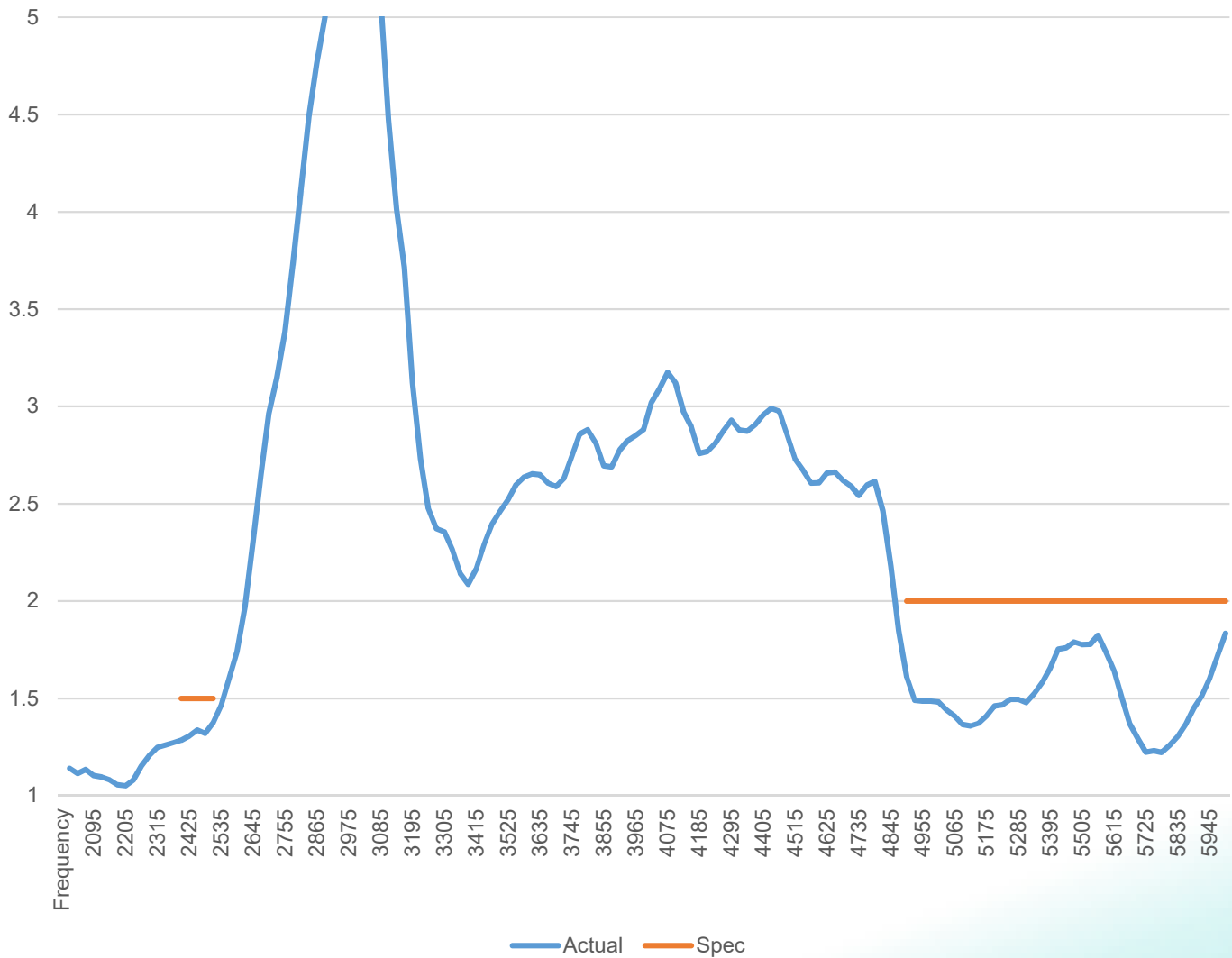
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## CHARTS

### VSWR

#### ICEFINWDMN VSWR



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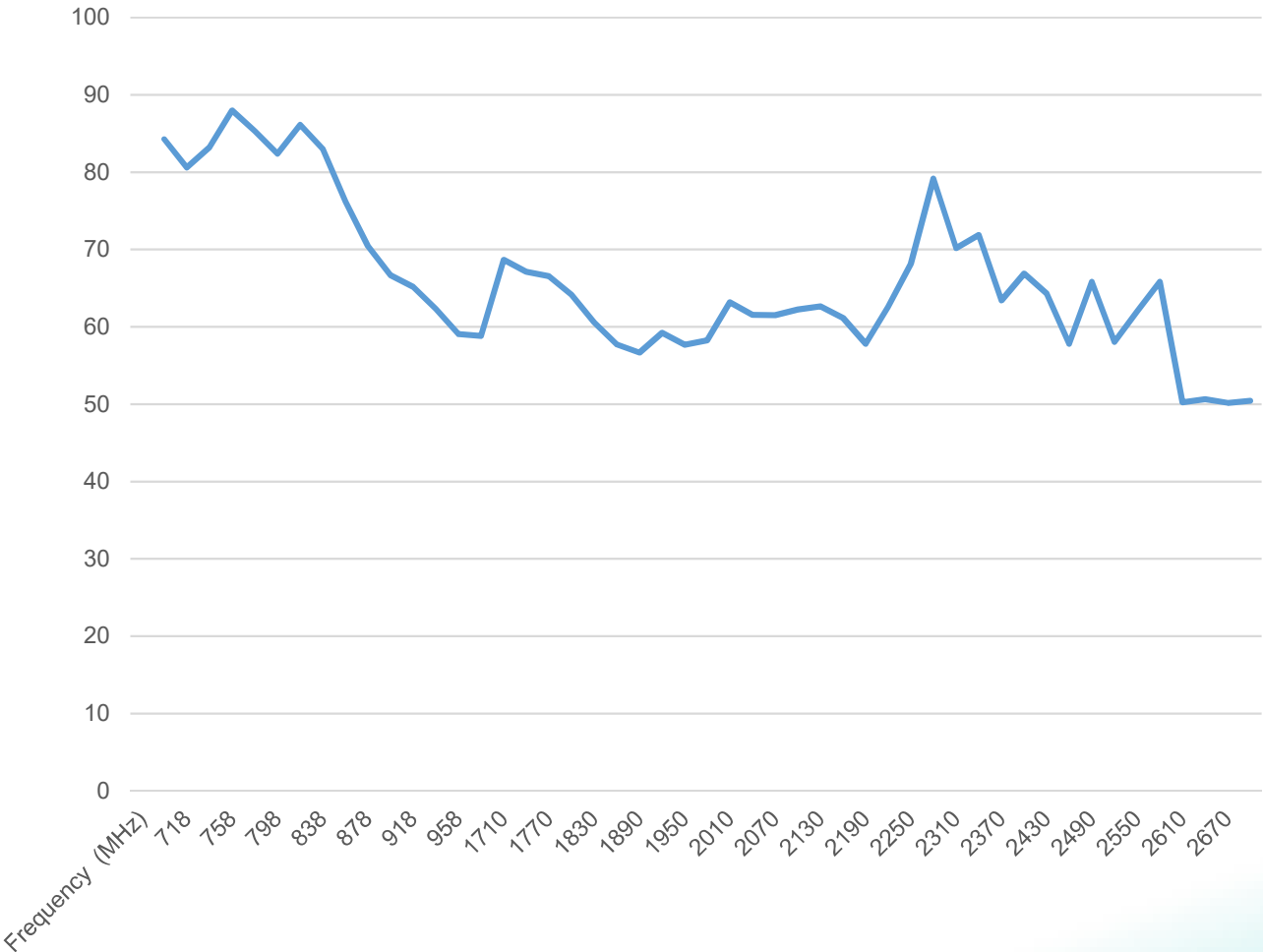
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CHARTS

Efficiency(%)

ICEFINLNMOHF  
Efficiency (%)



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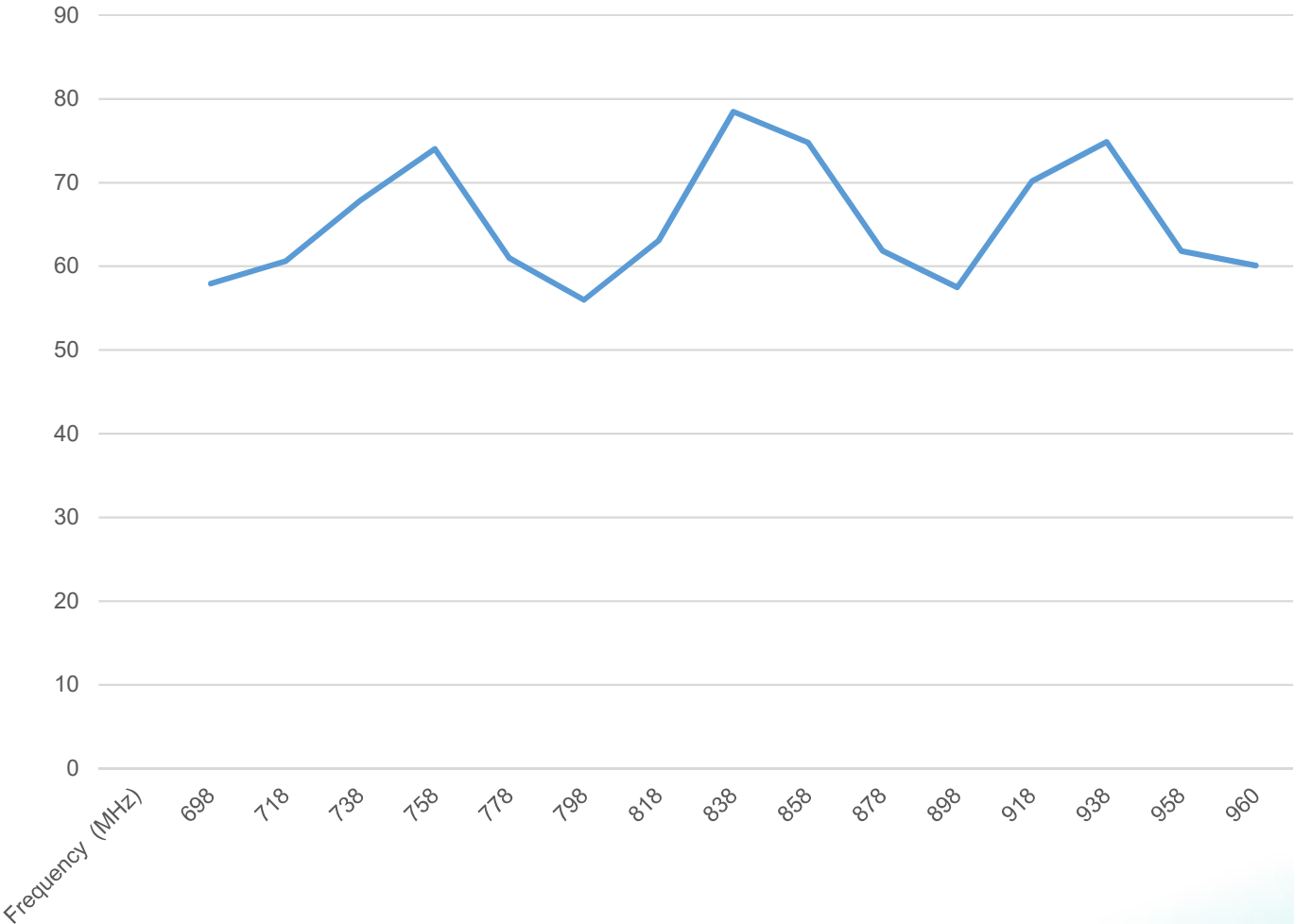
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CHARTS

Efficiency(%)

ICEFIN698/960NMO  
Efficiency (%)



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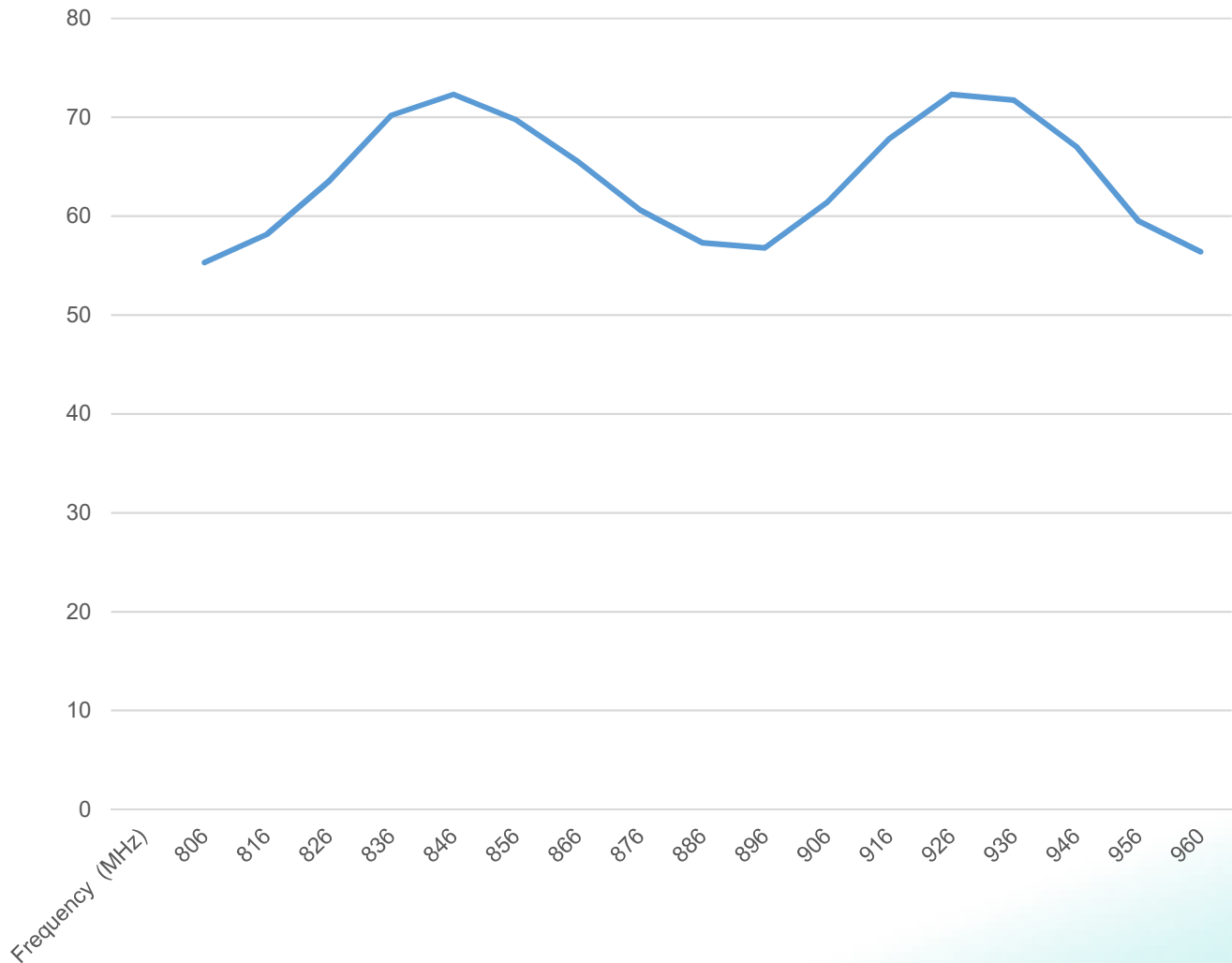
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## CHARTS

Efficiency(%)

ICEFIN806NMO  
Efficiency (%)



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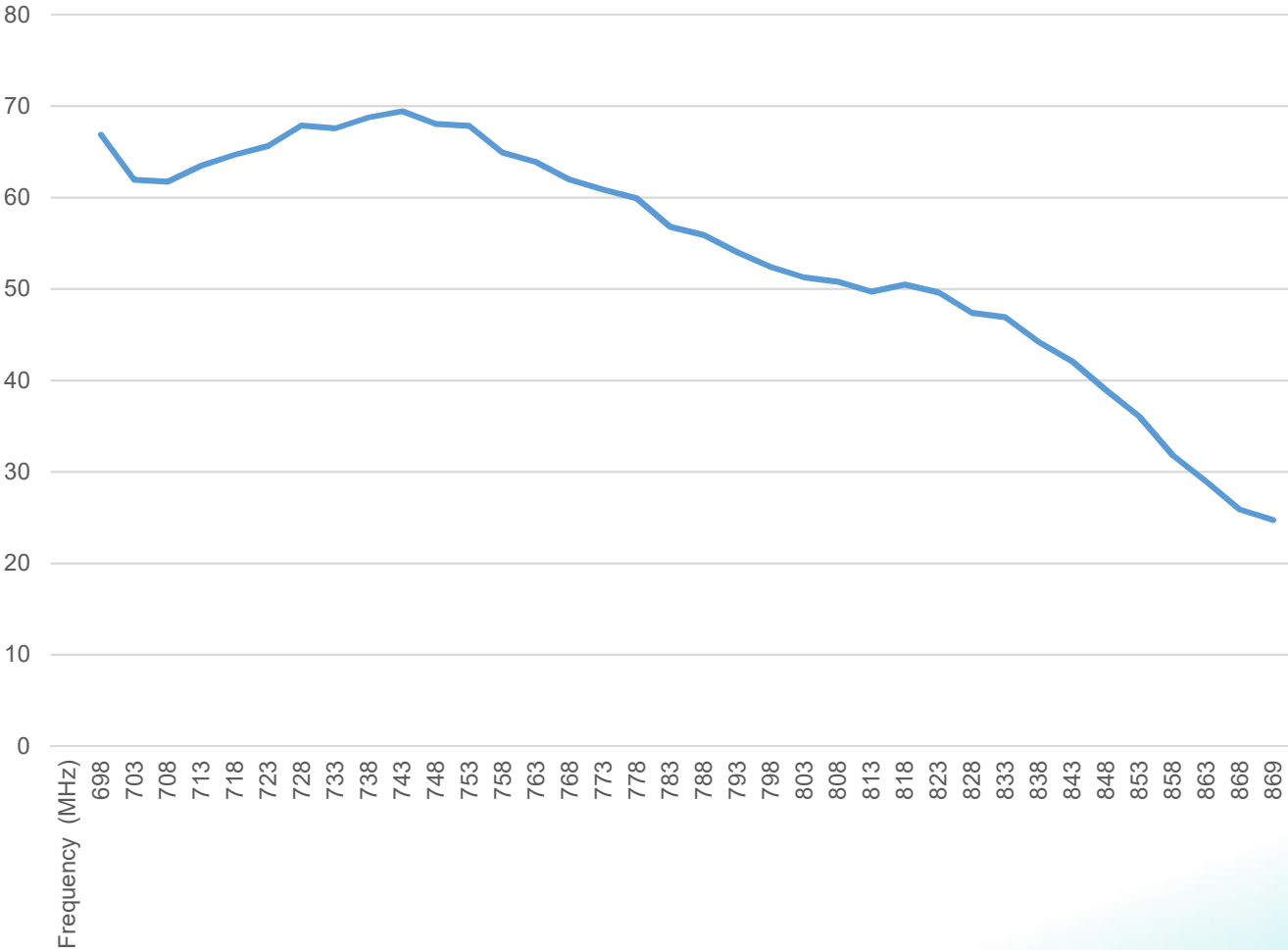
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CHARTS

Efficiency(%)

ICEFIN698/869DMN  
Efficiency (%)



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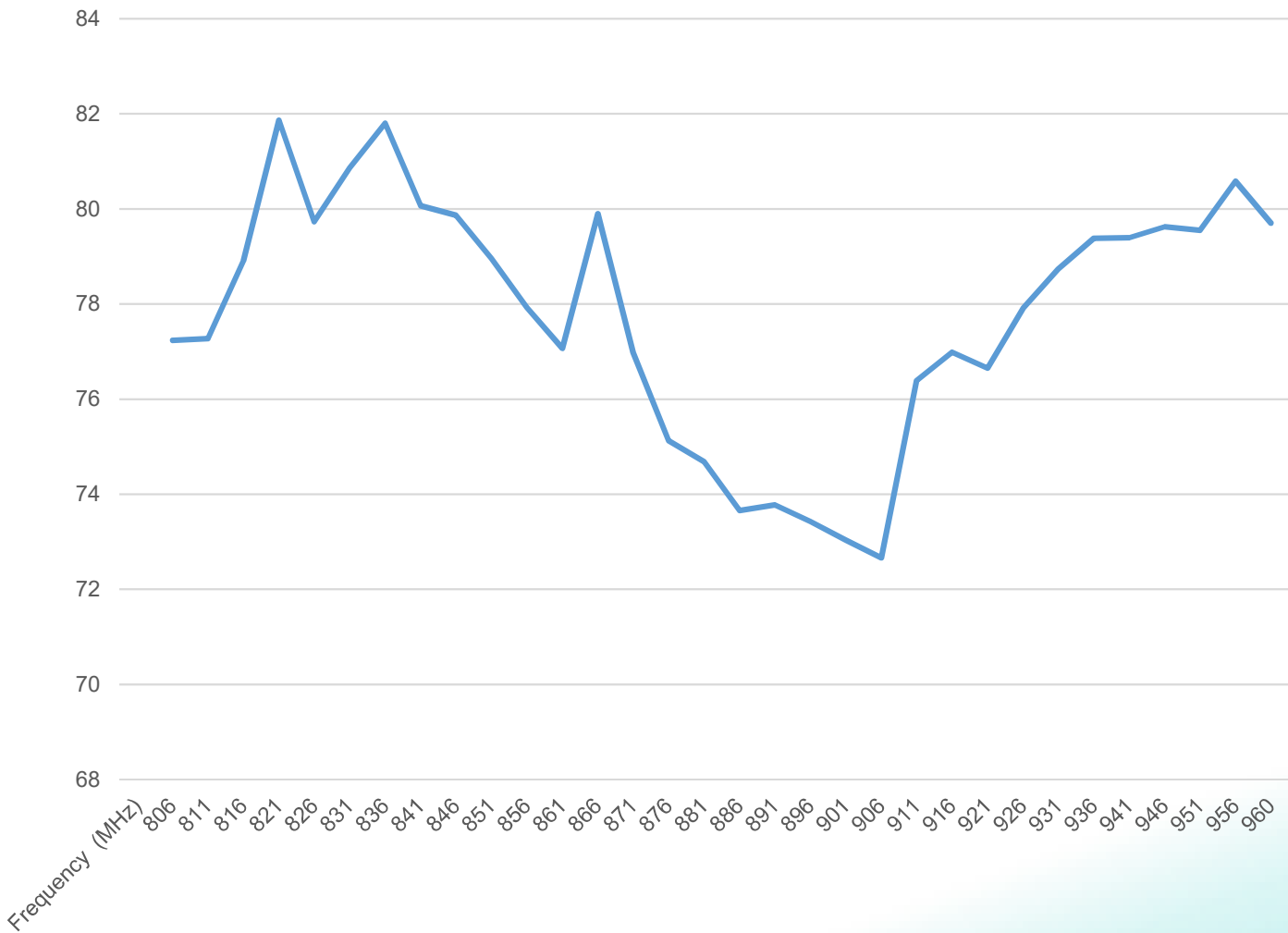
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CHARTS

Efficiency(%)

ICEFIN806DMN  
Efficiency (%)



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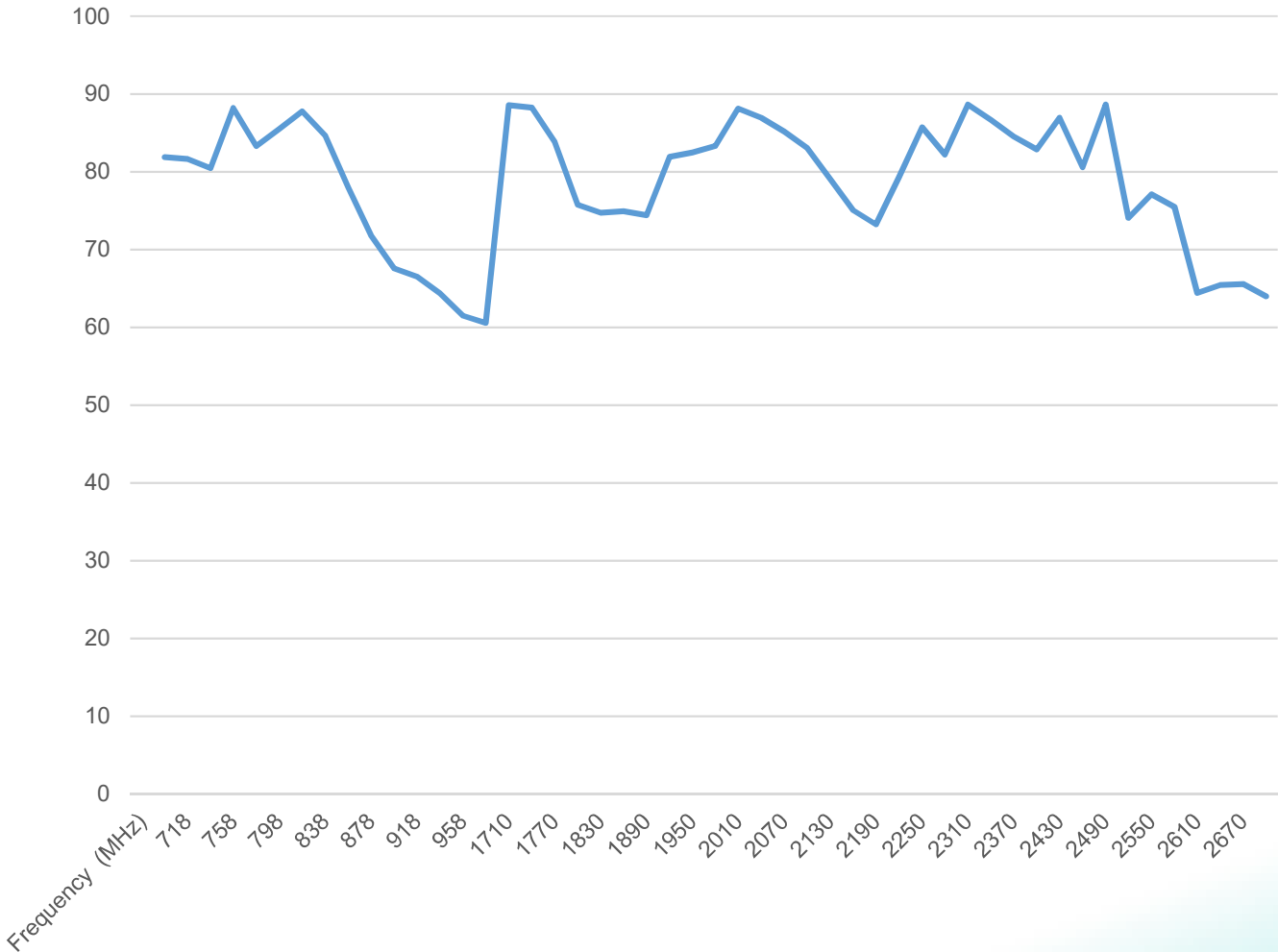
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CHARTS

Efficiency(%)

ICEFINLDMN  
Efficiency (%)



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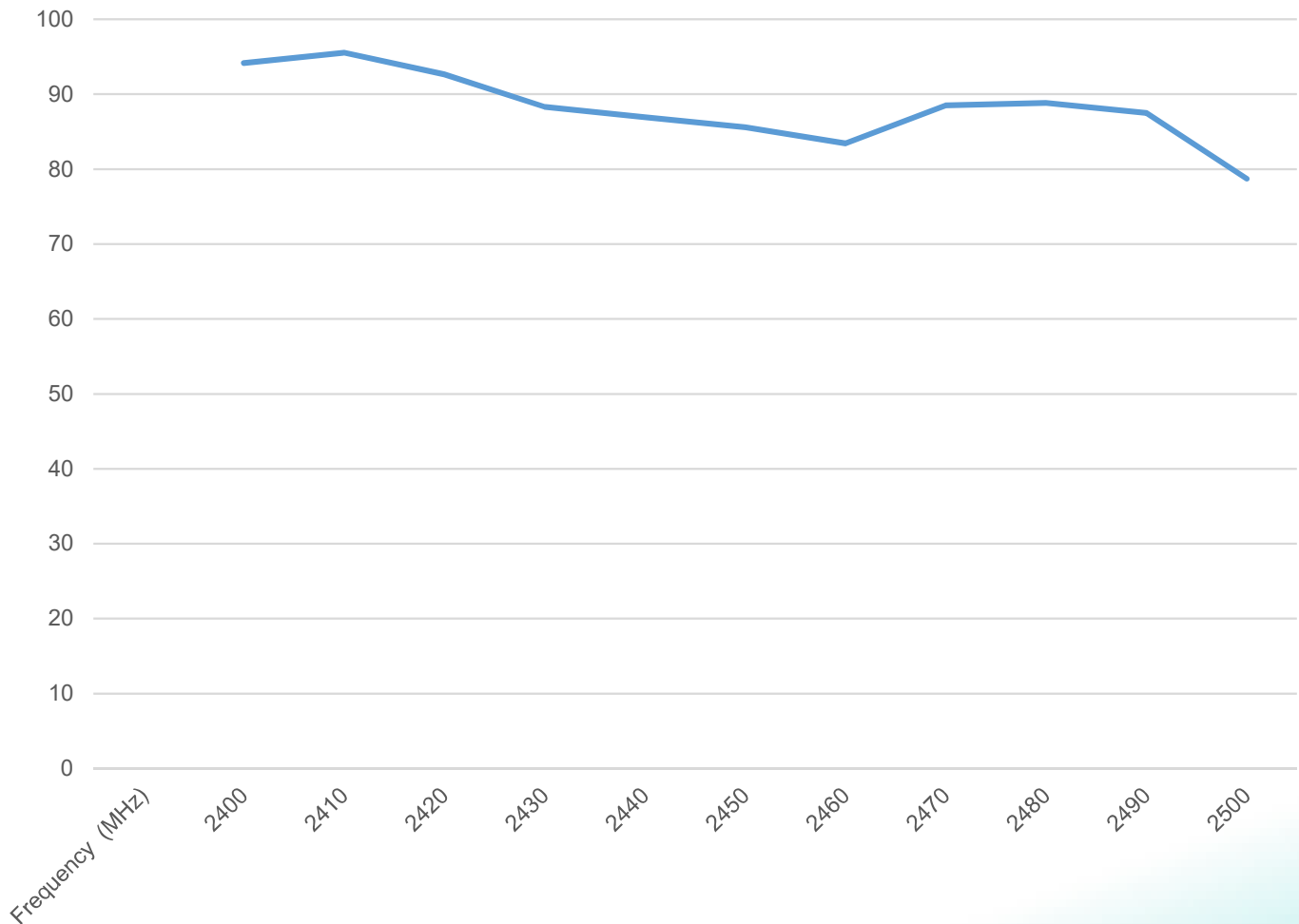
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## CHARTS

Efficiency(%)

ICEFIN24NMOHF  
Efficiency (%)



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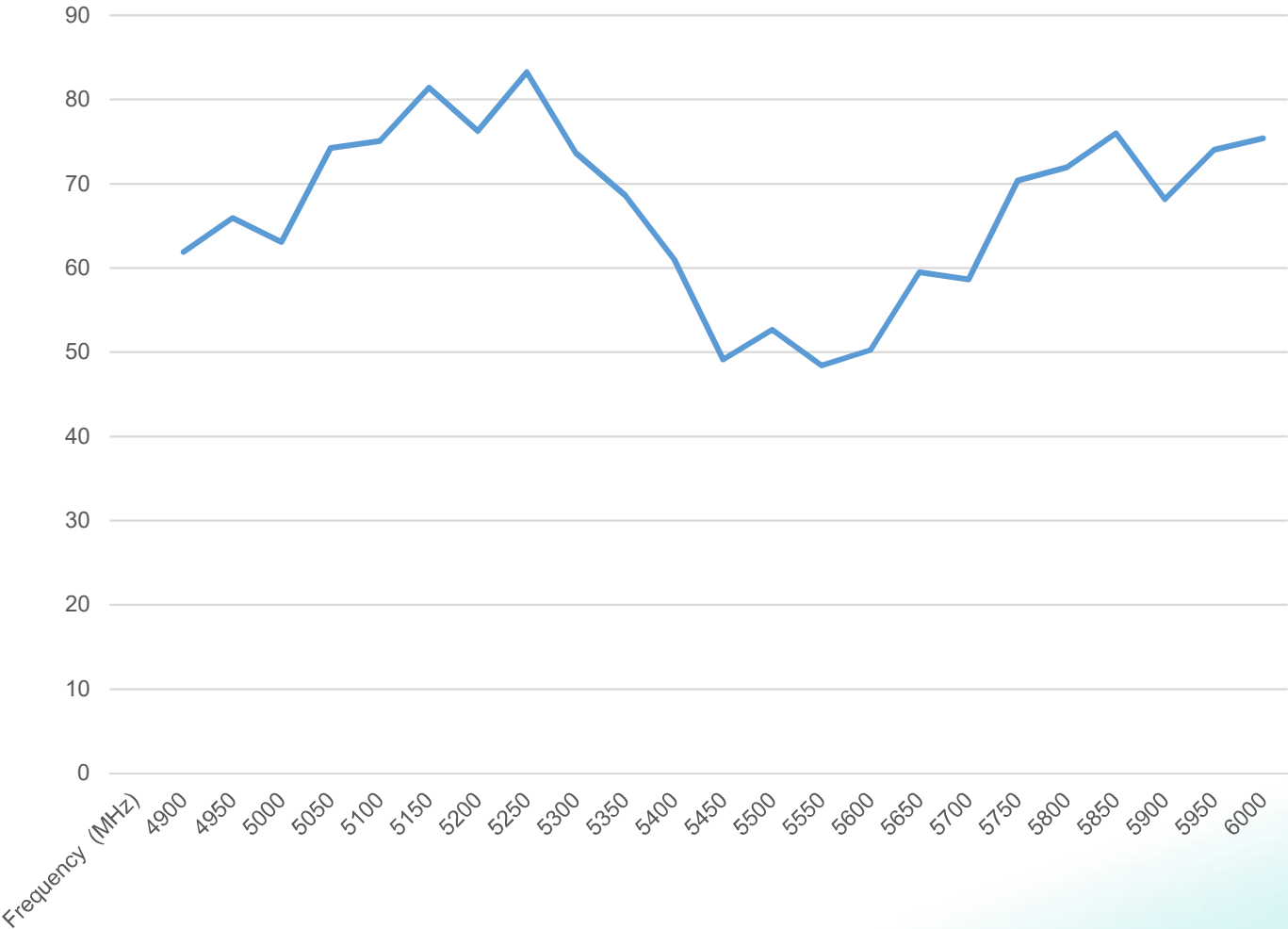
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CHARTS

Efficiency(%)

ICEFIN49NMOHF  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

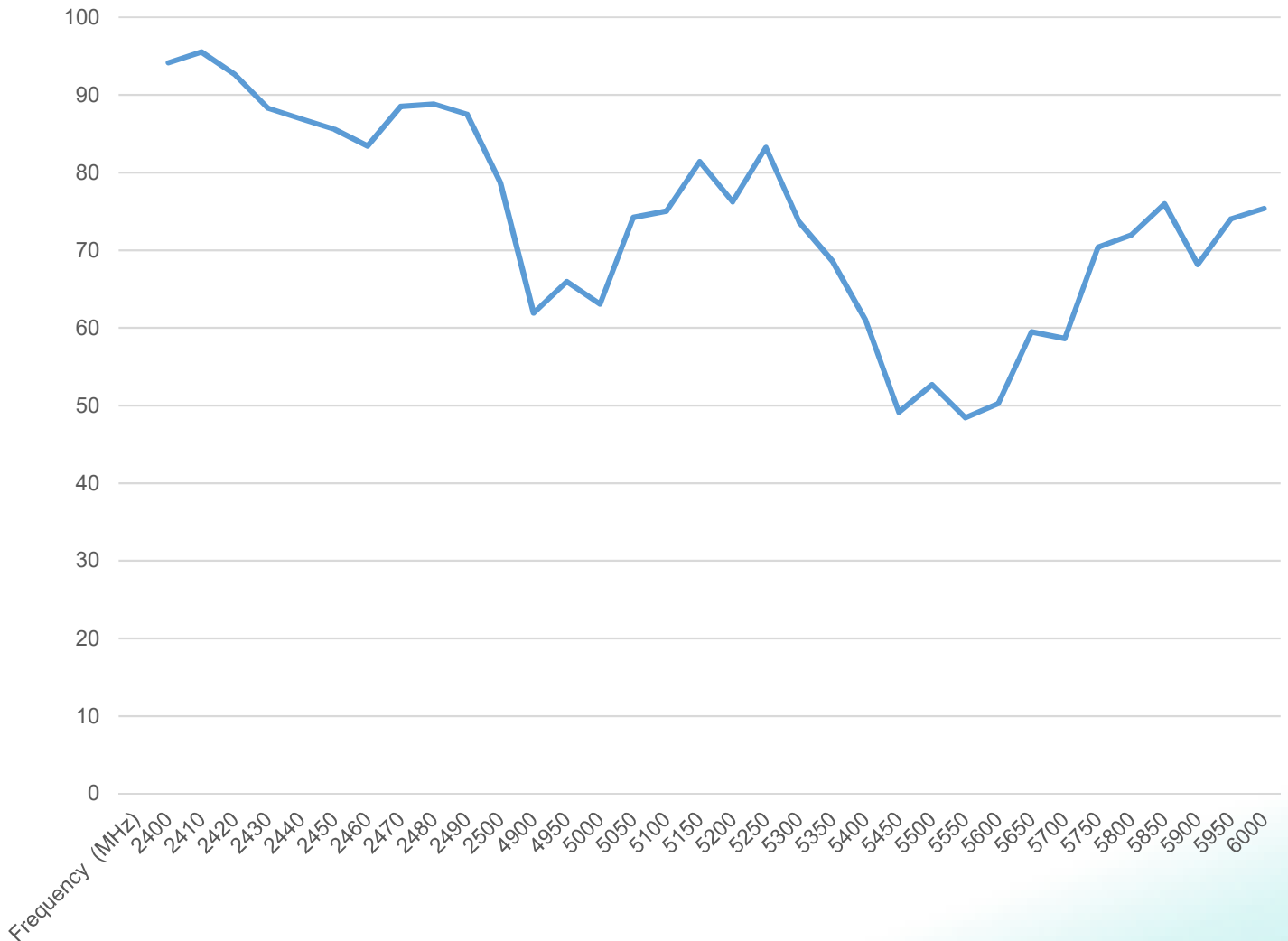
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Efficiency(%)

ICEFINWNMOHF  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

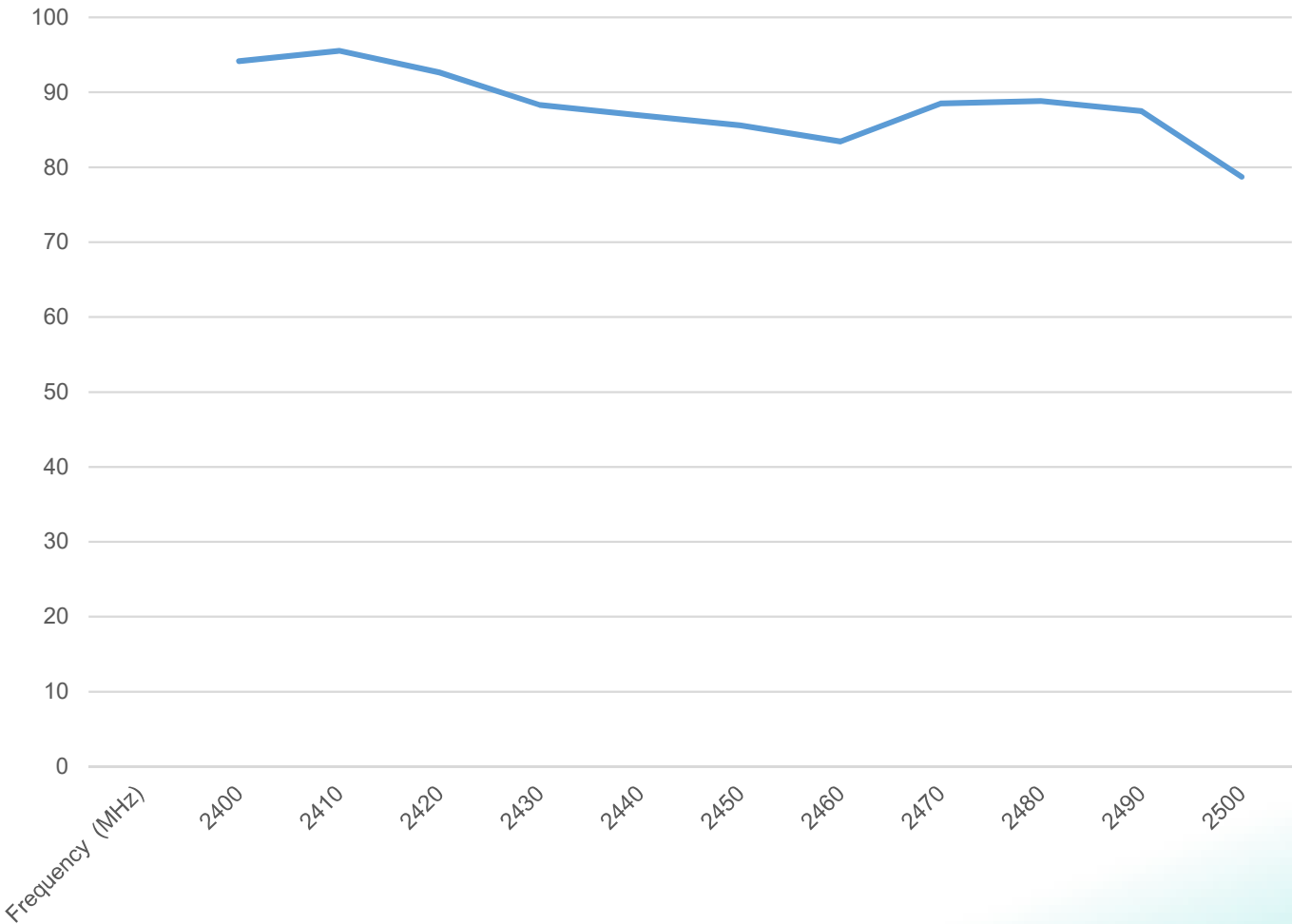
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN24DMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

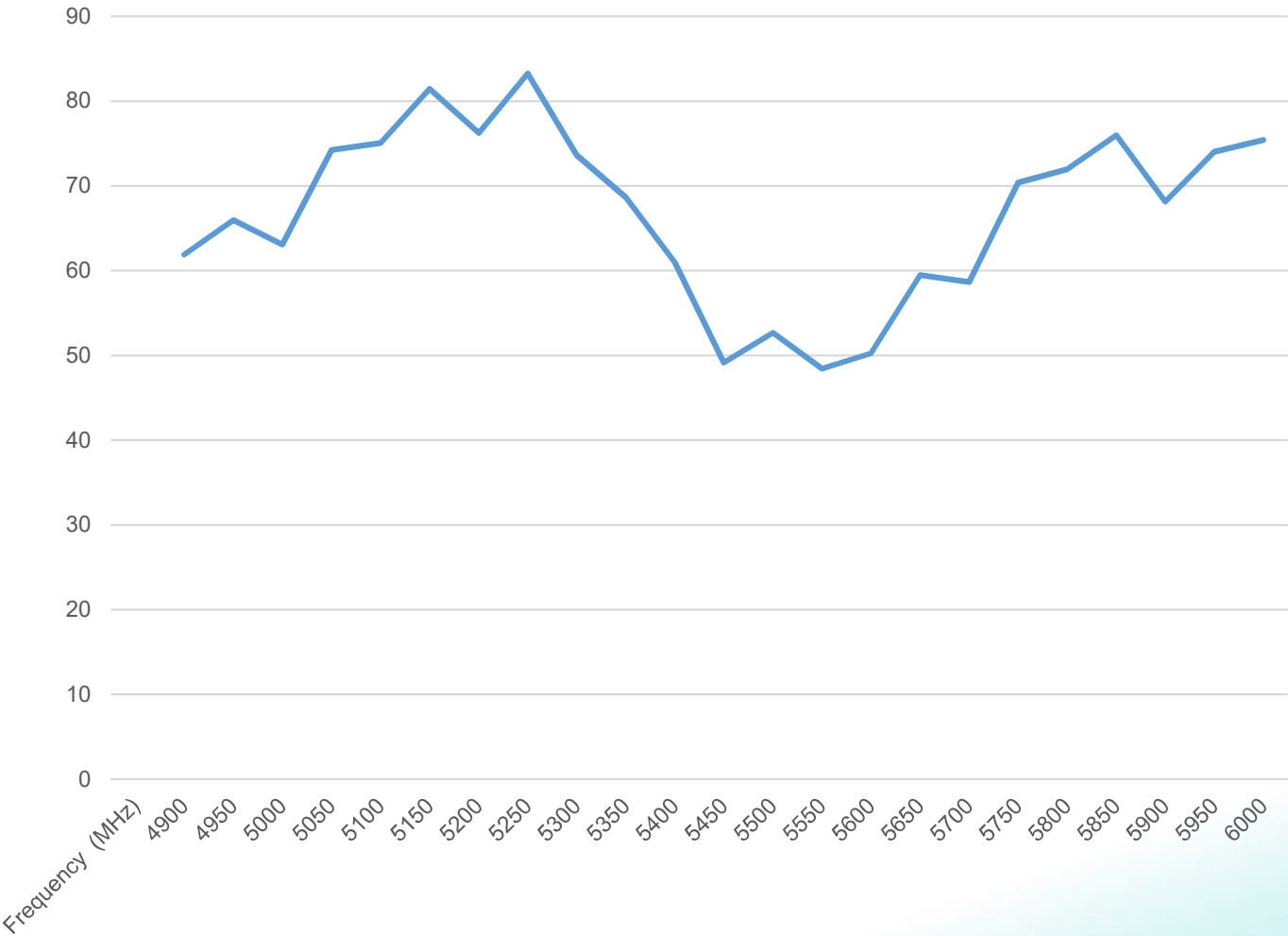
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFIN49DMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

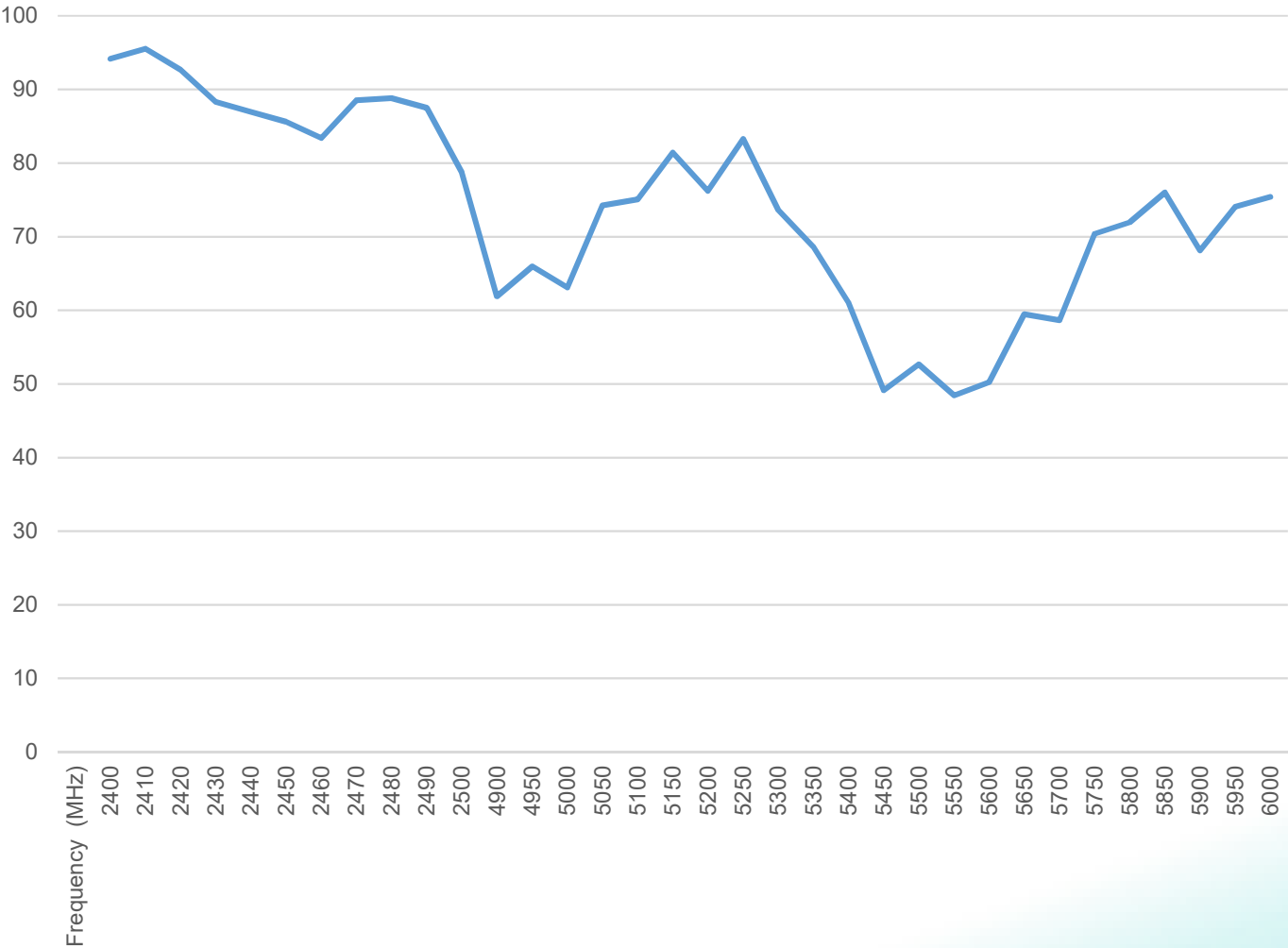
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINWDMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

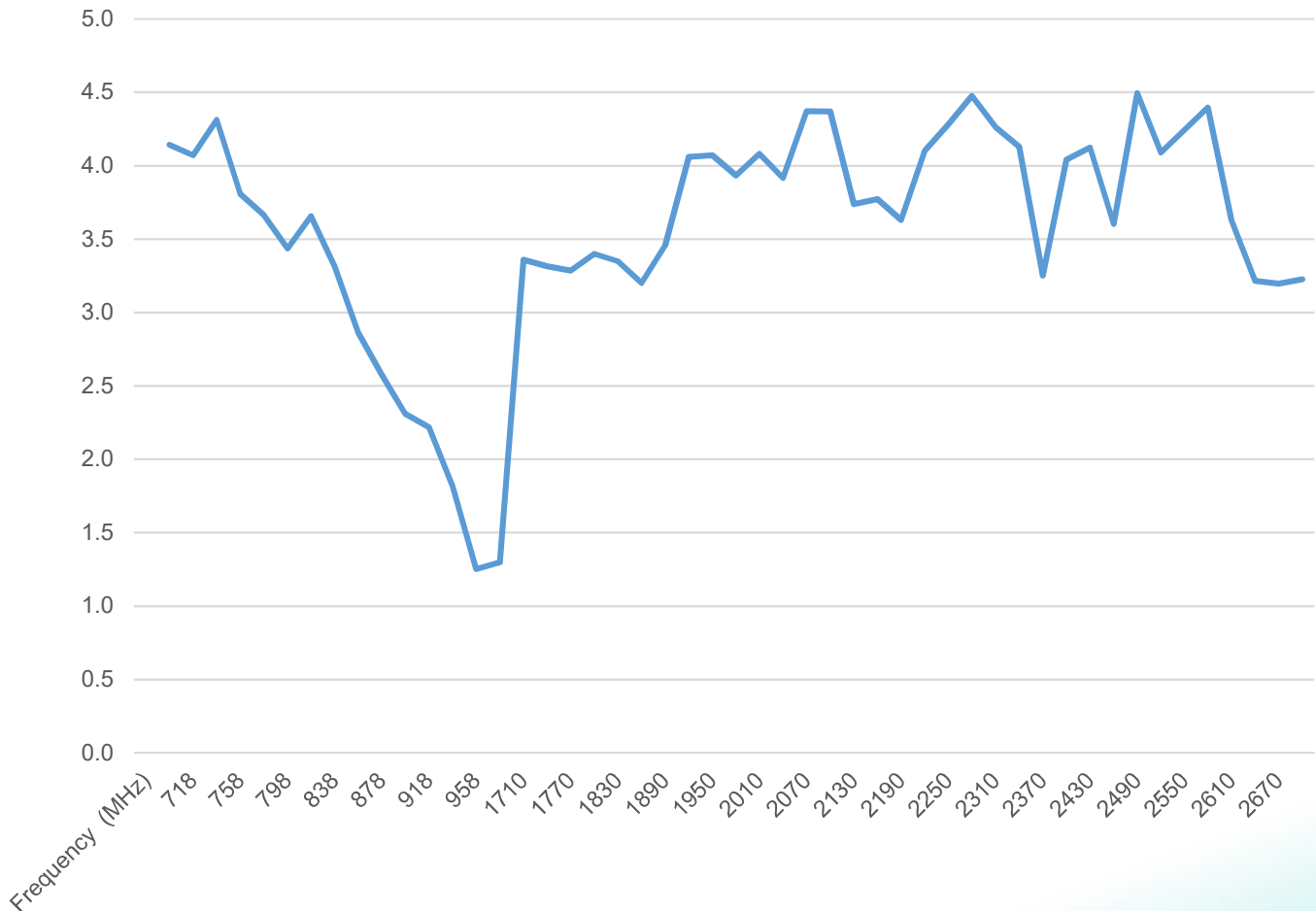
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFINLNMOHF  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

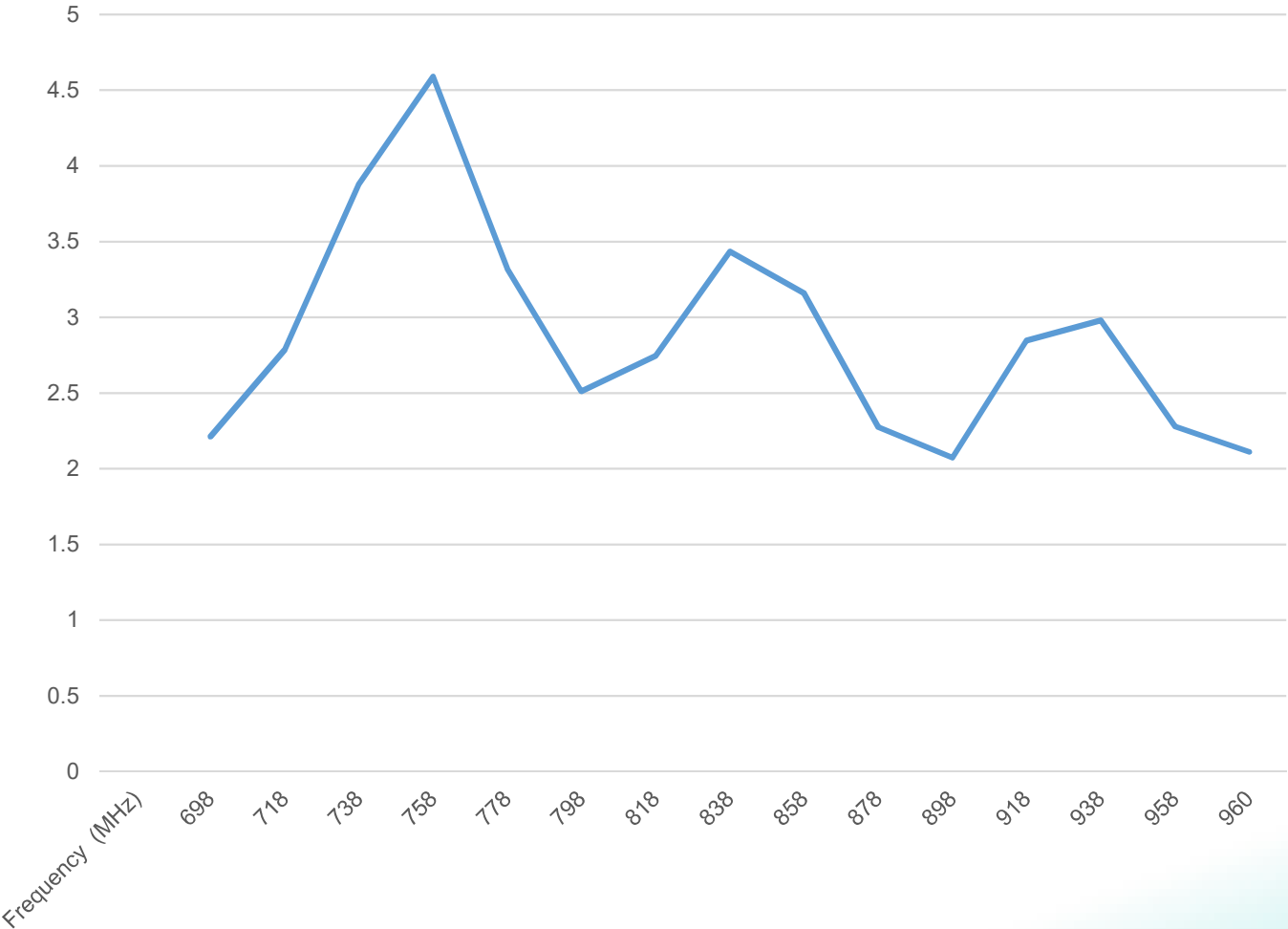
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN698/960NMO  
Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND ANTENNA

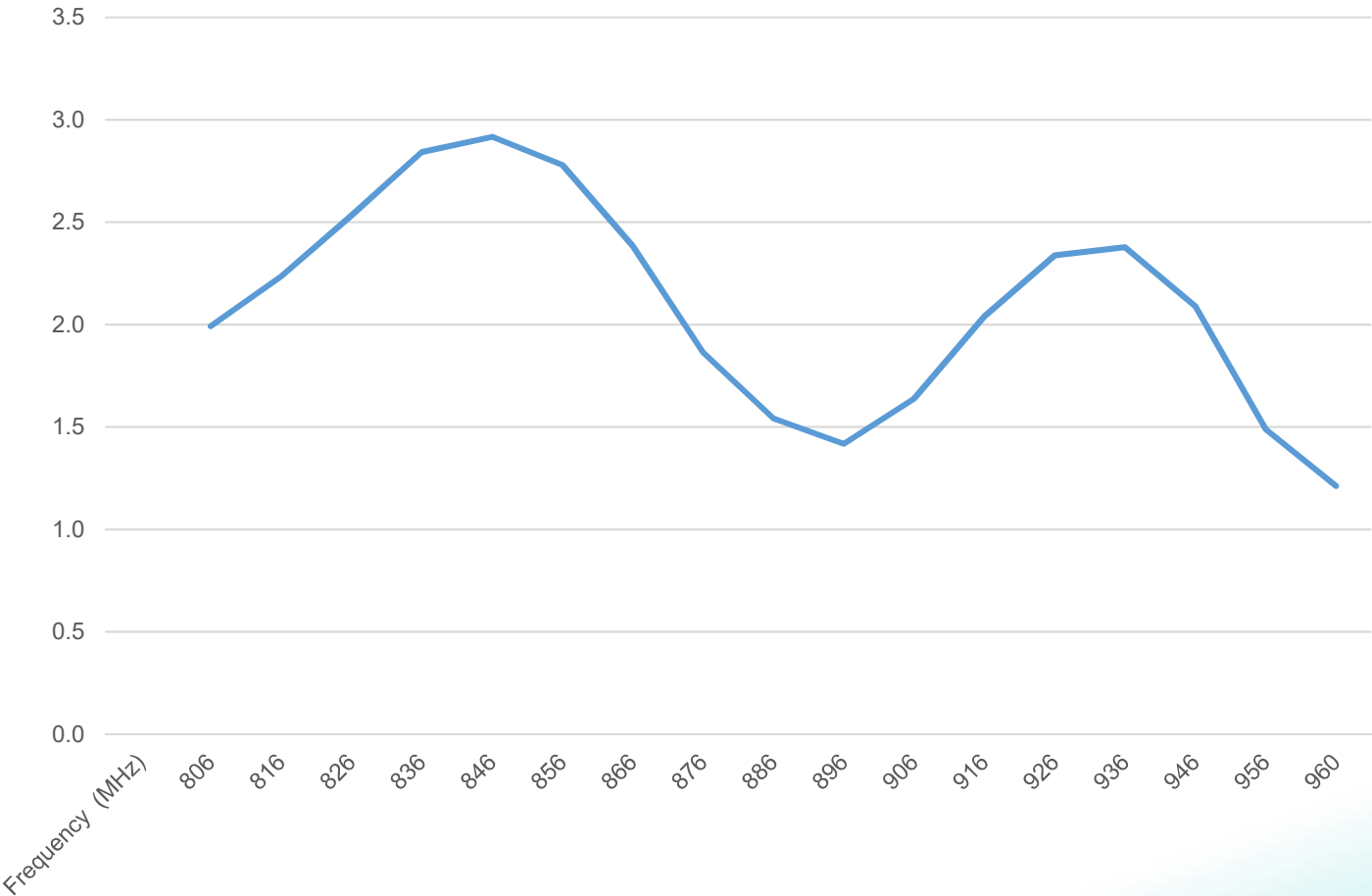
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN806NMO  
Peak Gain(dBi)



Description: LOW PROFILE MULTIBAND  
ANTENNA

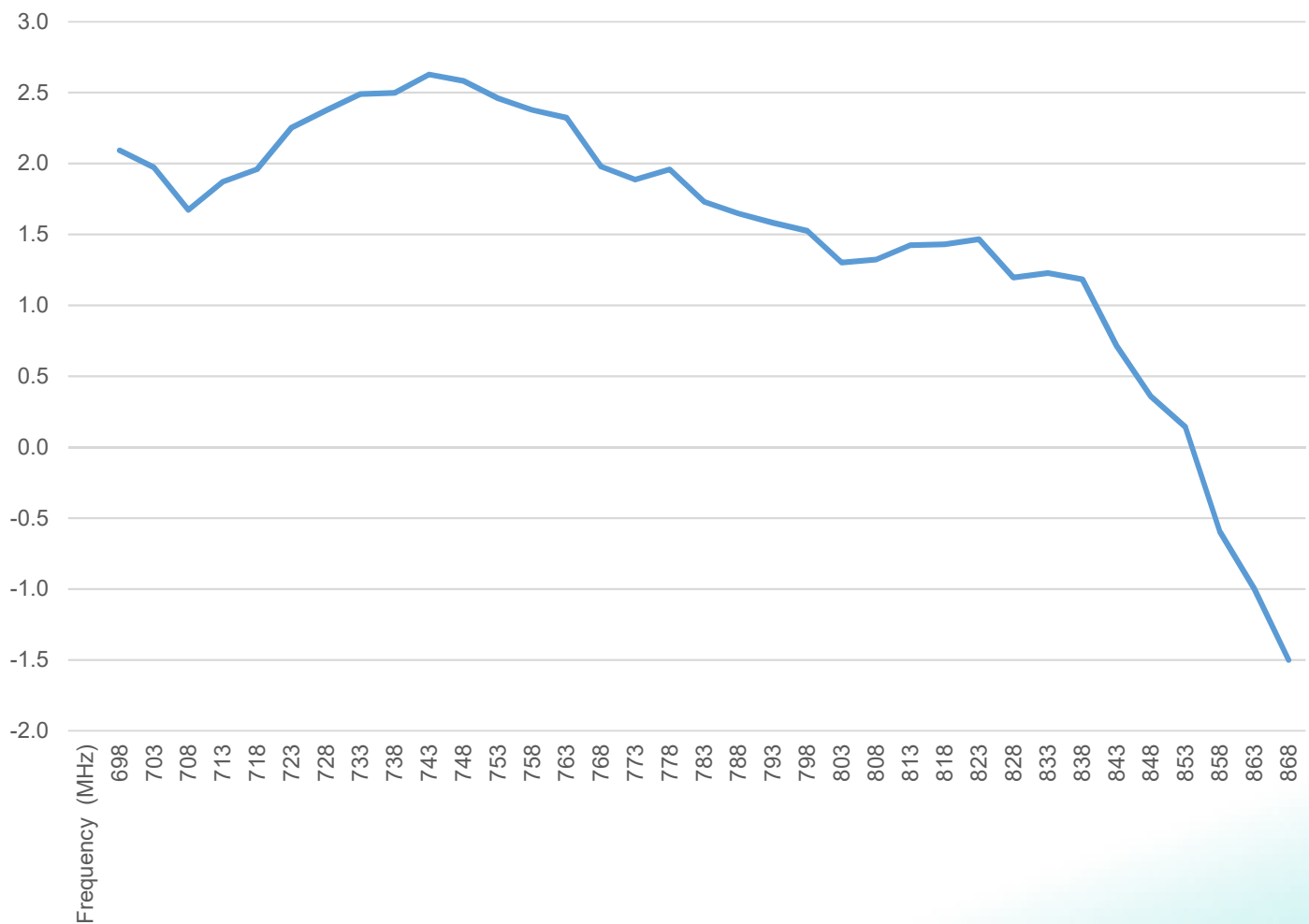
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFIN698/869DMN  
Peak Gain(dBi)



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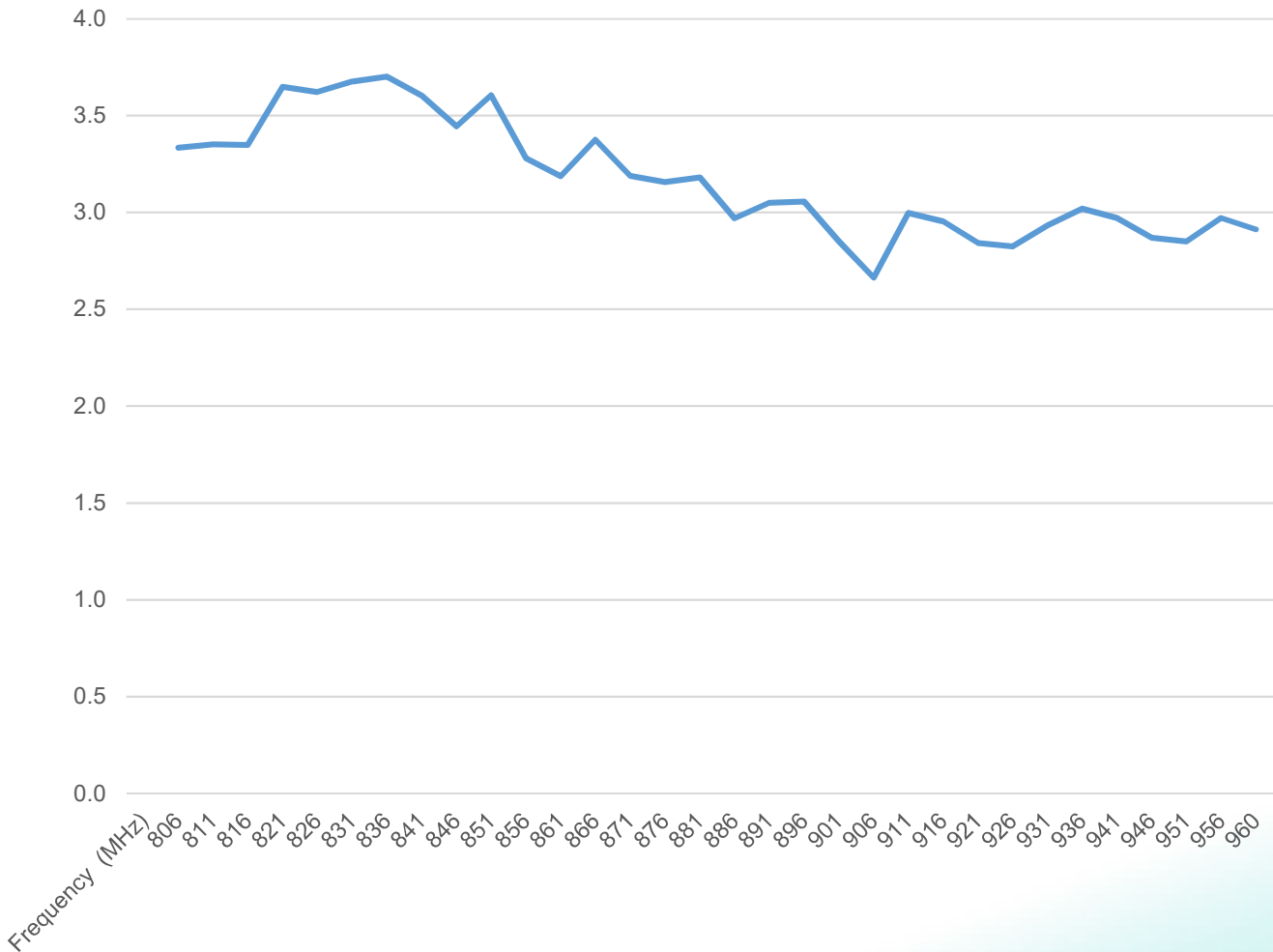
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN806DMN  
Peak Gain(dBi)



Issue: 1743

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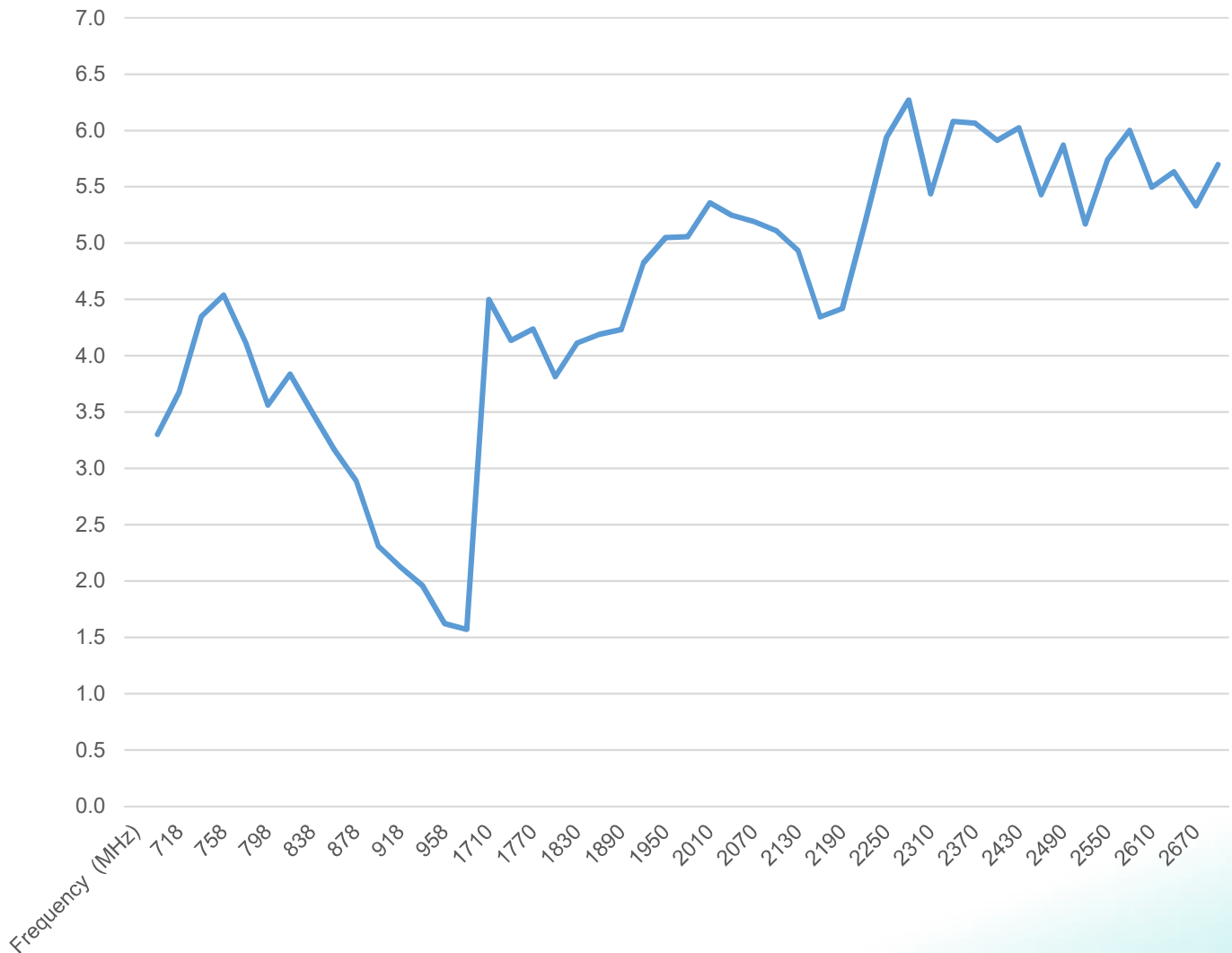
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFINLDMN  
Peak Gain(dBi)



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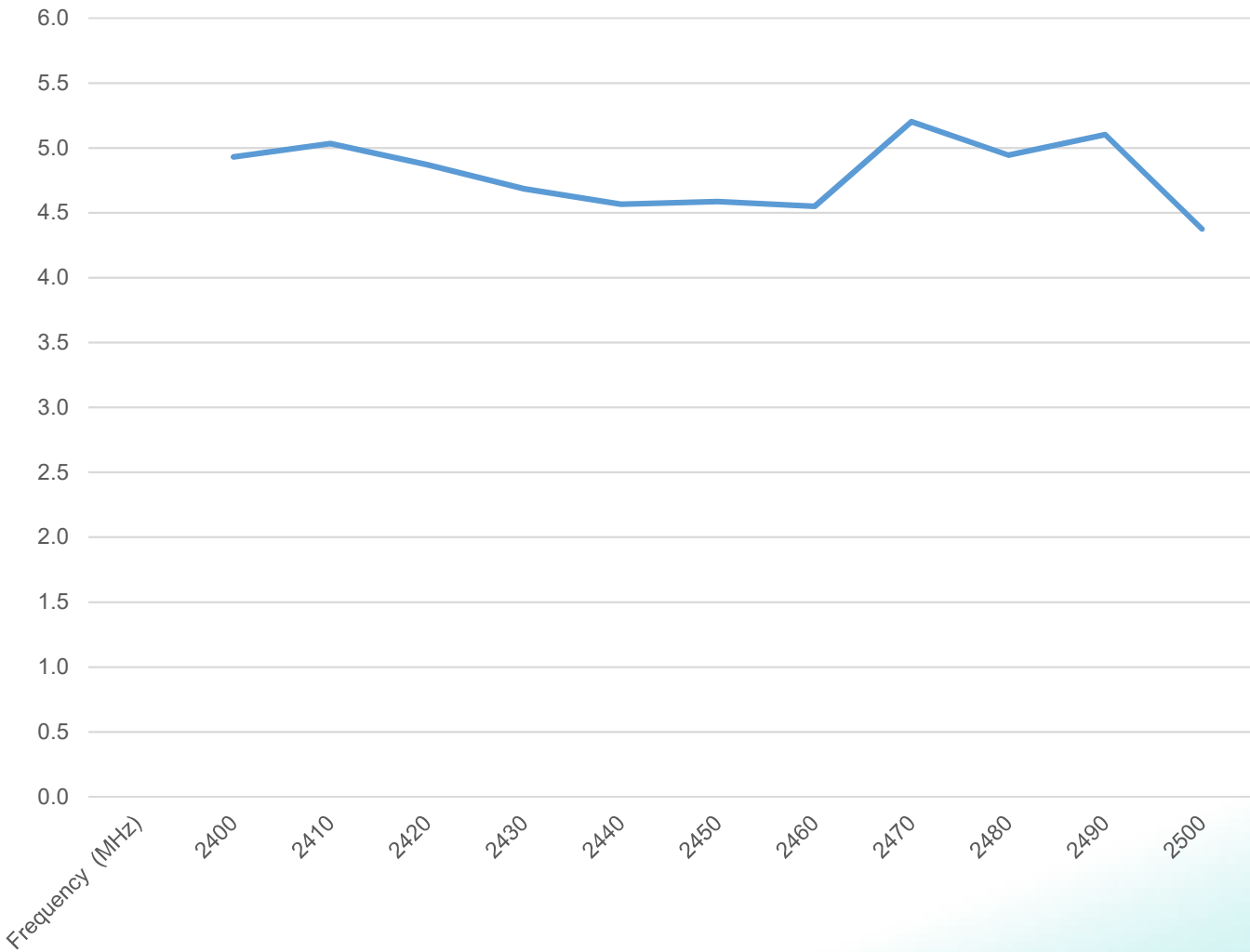
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN24NMOHF  
Peak Gain(dBi)



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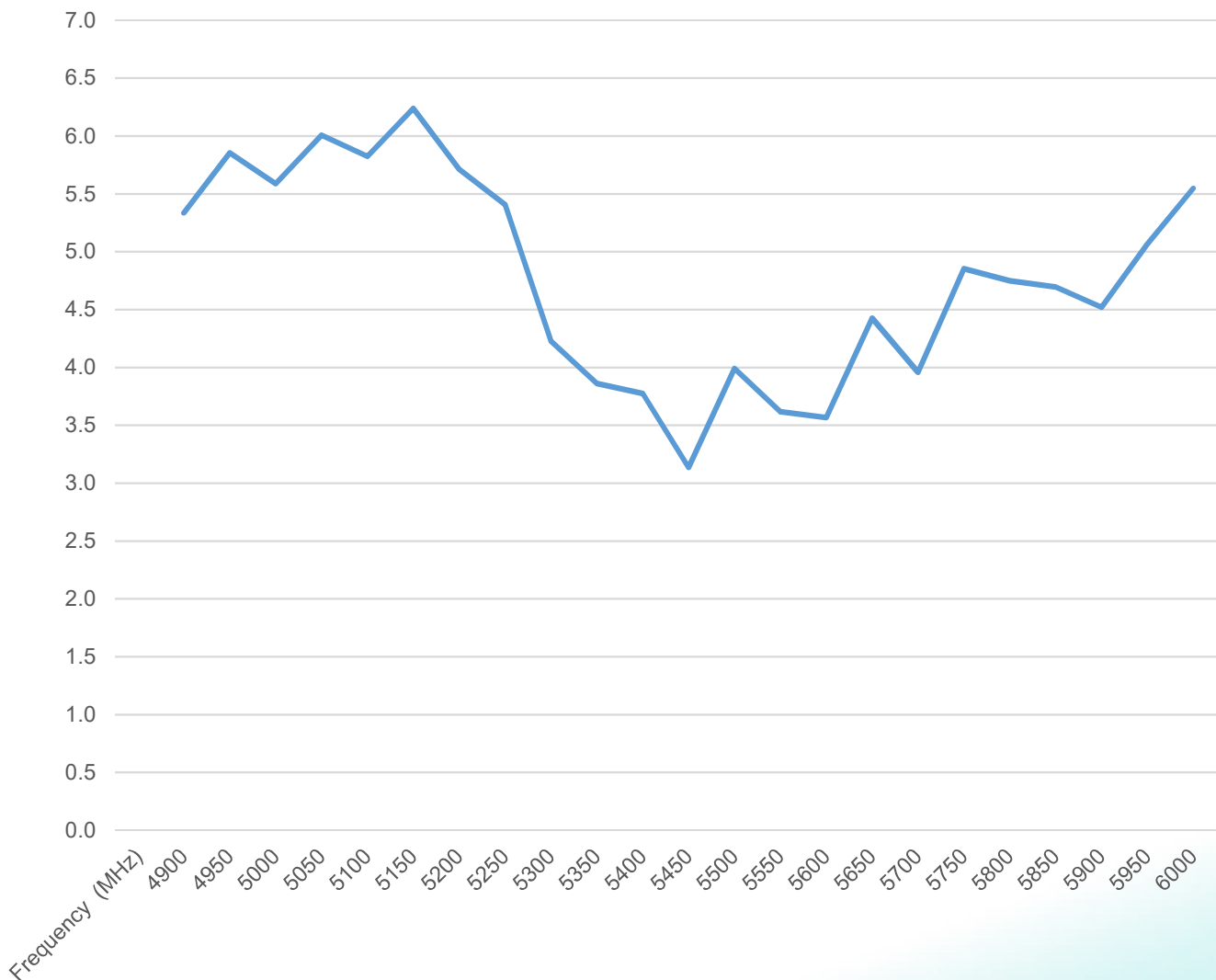
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFIN49NMOHF  
Peak Gain(dBi)



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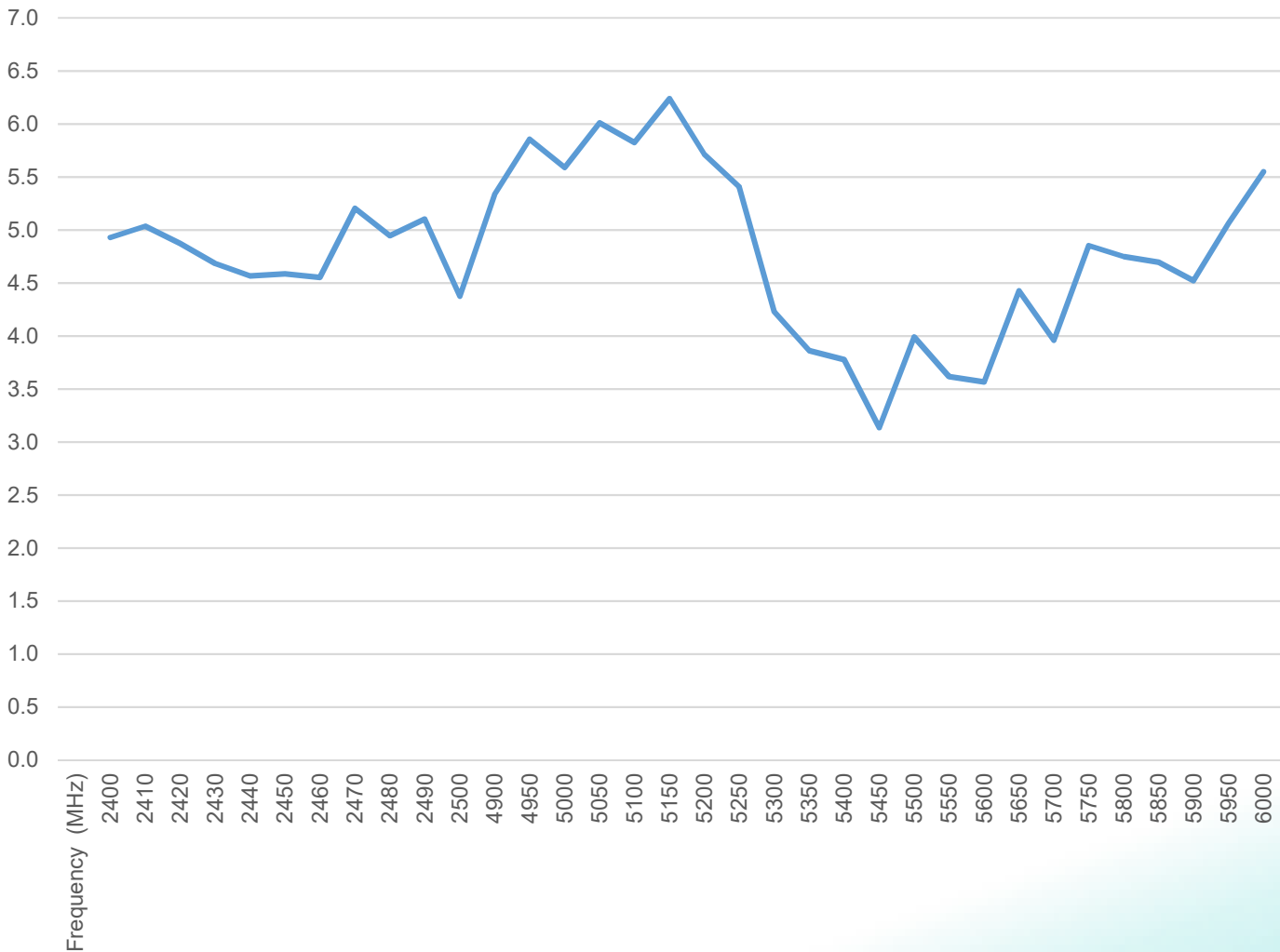
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWNMOHF  
Peak Gain(dBi)



Issue: 1743

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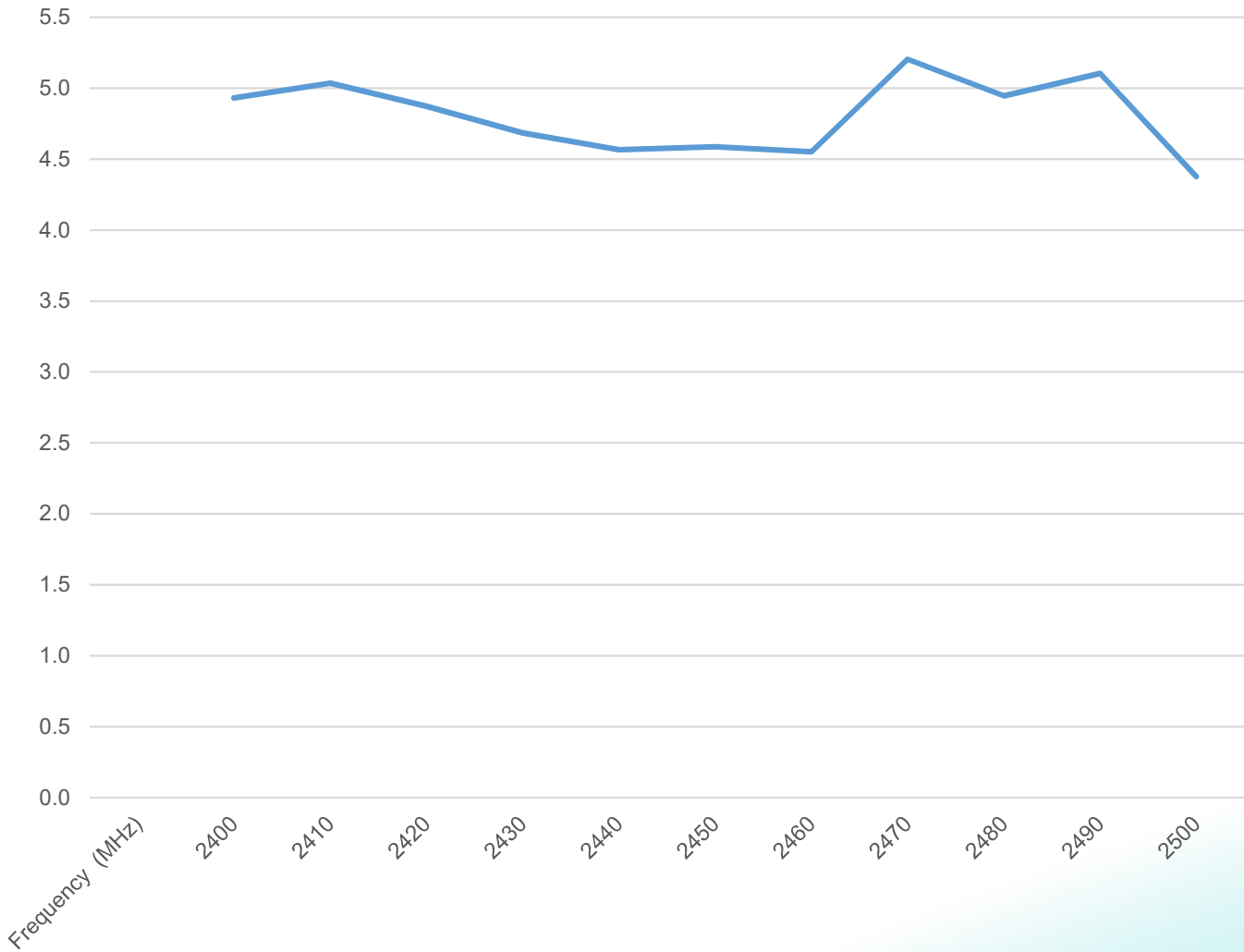
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN24DMN  
Peak Gain(dBi)



Issue: 1743

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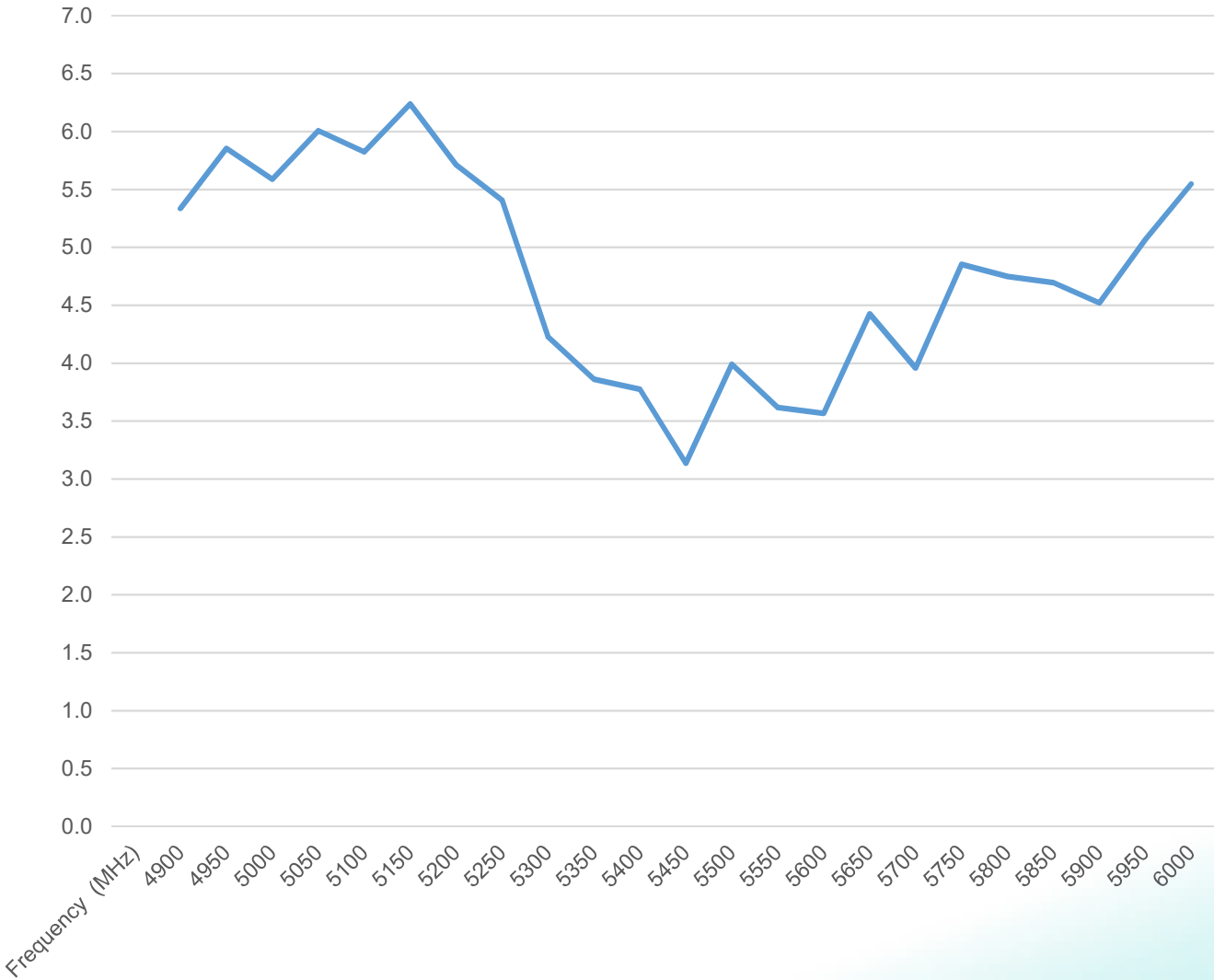
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFIN49DMN  
Peak Gain(dBi)



Issue: 1743

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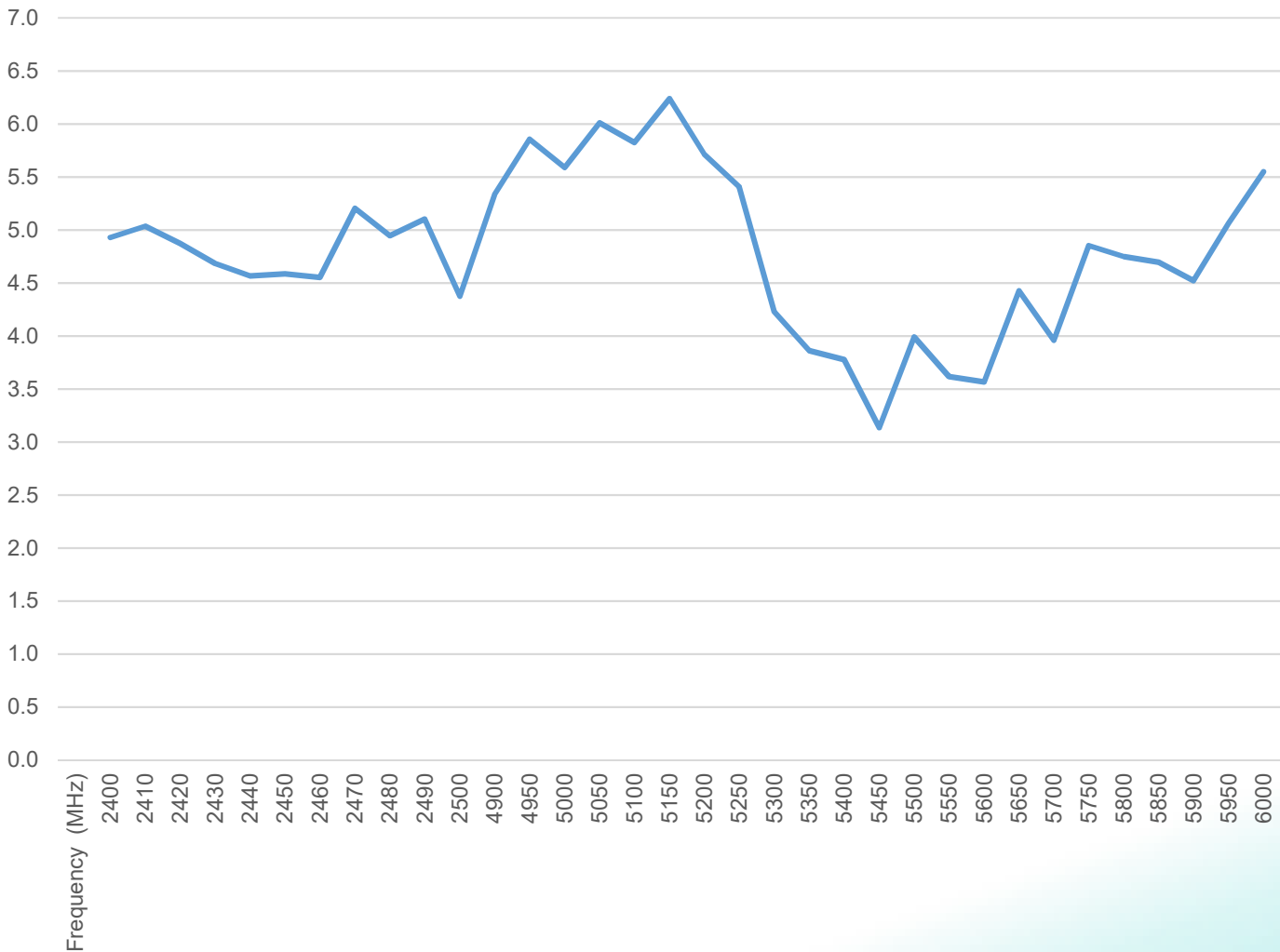
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Peak Gain (dBi)

ICEFINWDMN  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

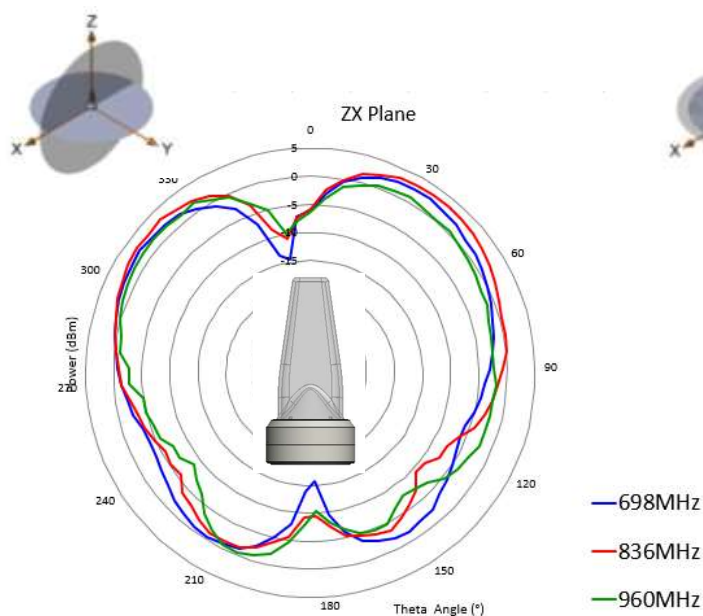
PART NUMBER: ICEFINXXX

## CHARTS

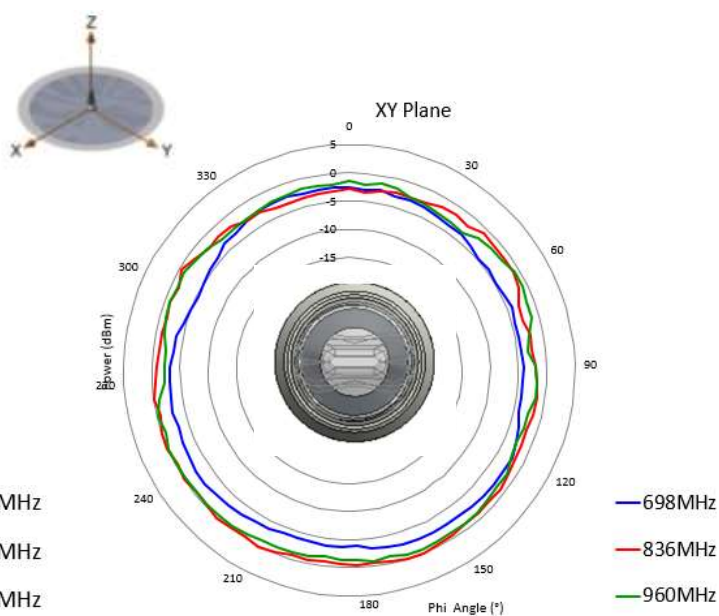
### Free Space Radiation Pattern

ICEFINLNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

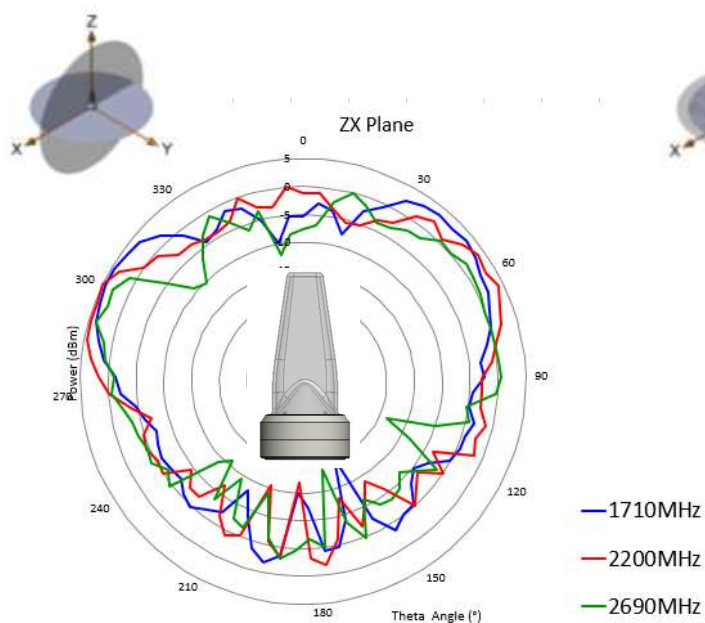
PART NUMBER: ICEFINXXX

## CHARTS

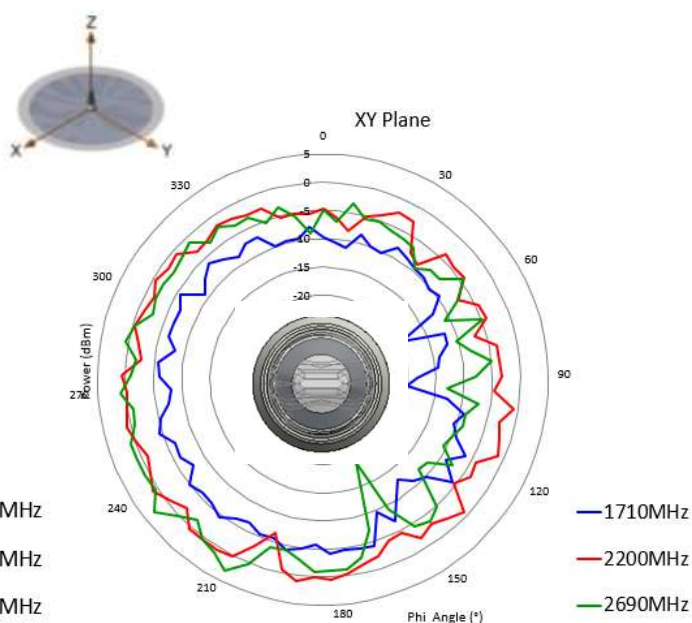
### Free Space Radiation Pattern

ICEFINLNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

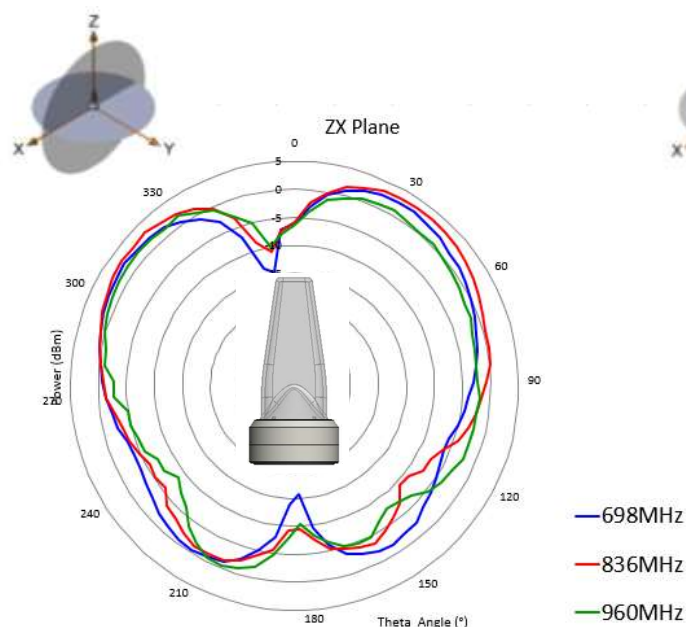
PART NUMBER: ICEFINXXX

## CHARTS

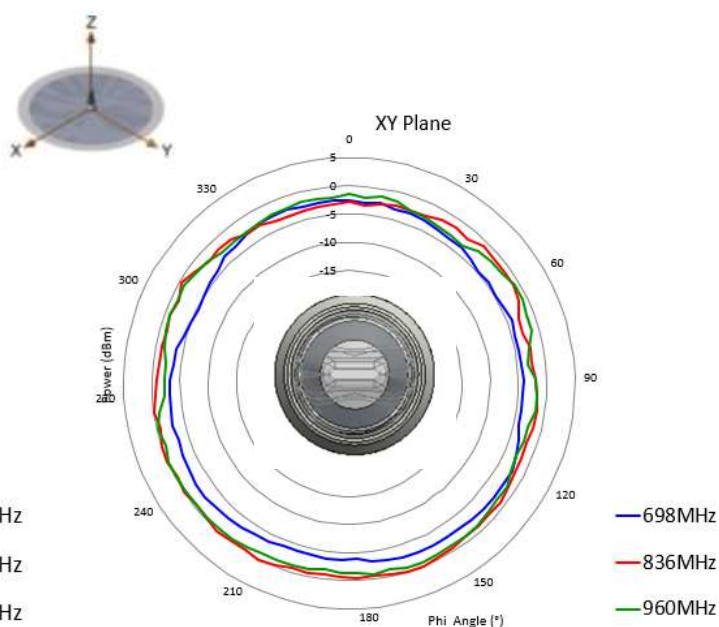
### Free Space Radiation Pattern

ICEFIN698/960NMO

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

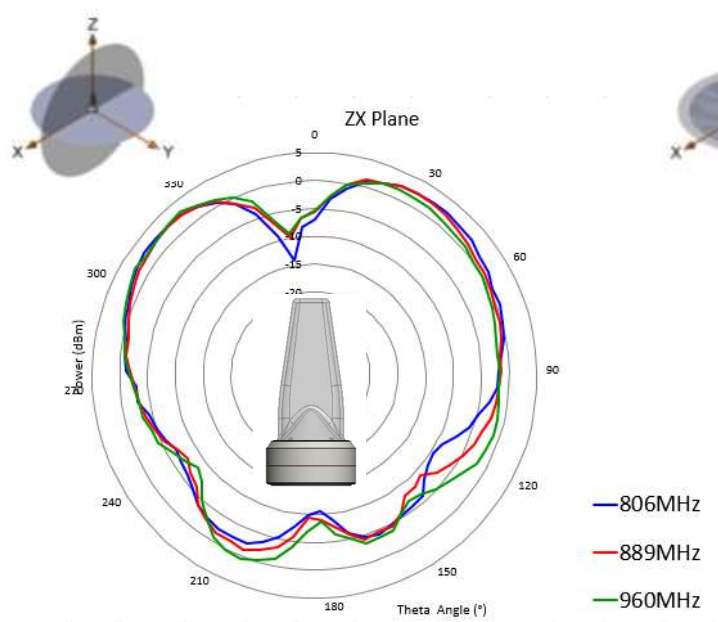
PART NUMBER: ICEFINXXX

## CHARTS

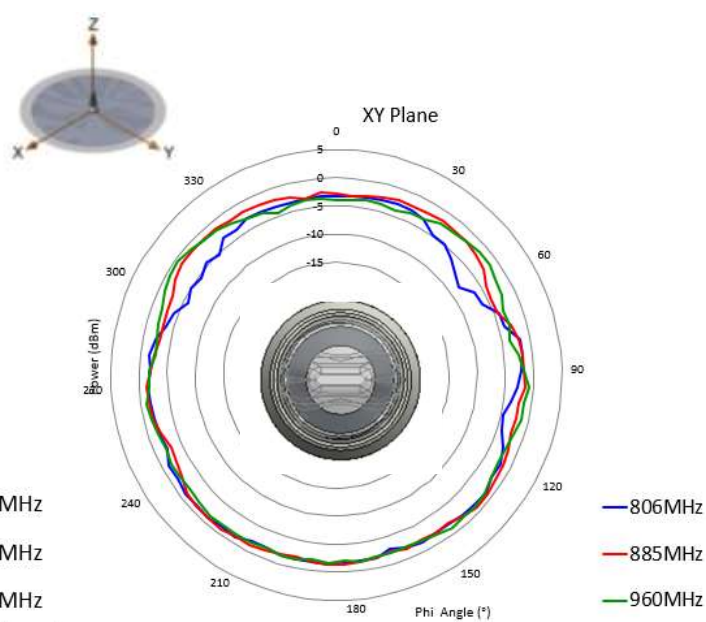
### Free Space Radiation Pattern

ICEFIN806NMO

#### Elevation Plane



#### Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

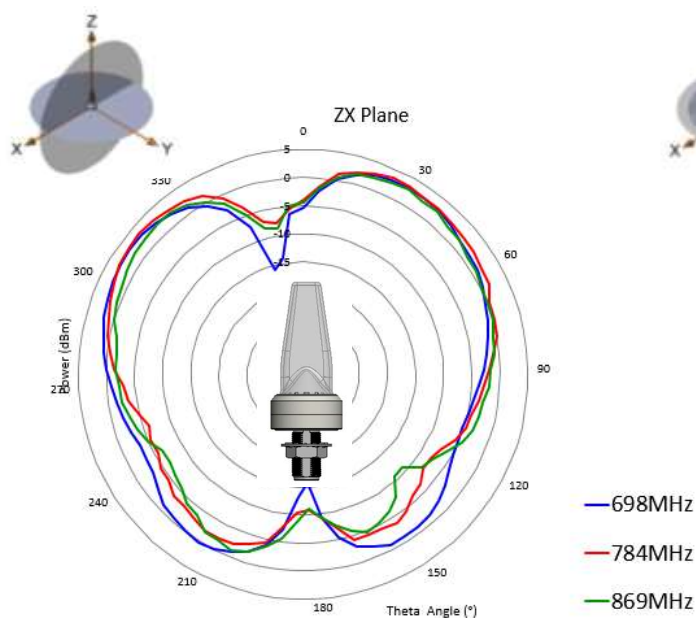
PART NUMBER: ICEFINXXX

## CHARTS

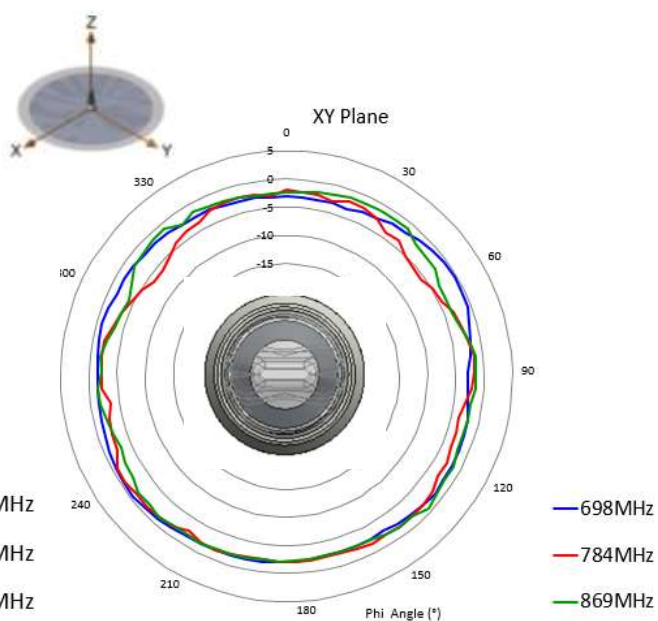
### Free Space Radiation Pattern

ICEFIN698/869DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

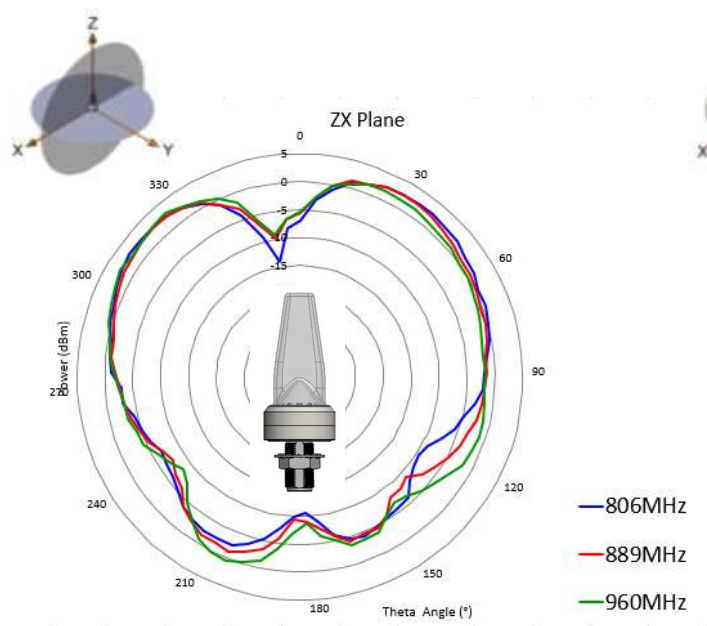
PART NUMBER: ICEFINXXX

## CHARTS

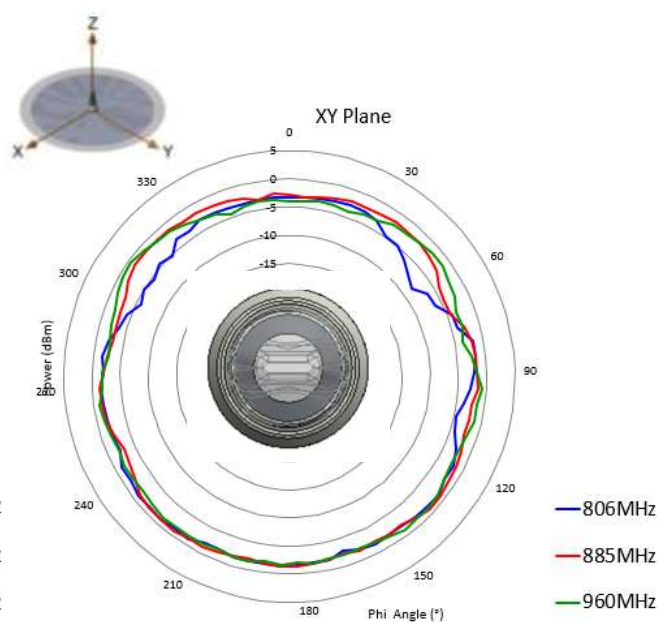
### Free Space Radiation Pattern

ICEFIN806DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

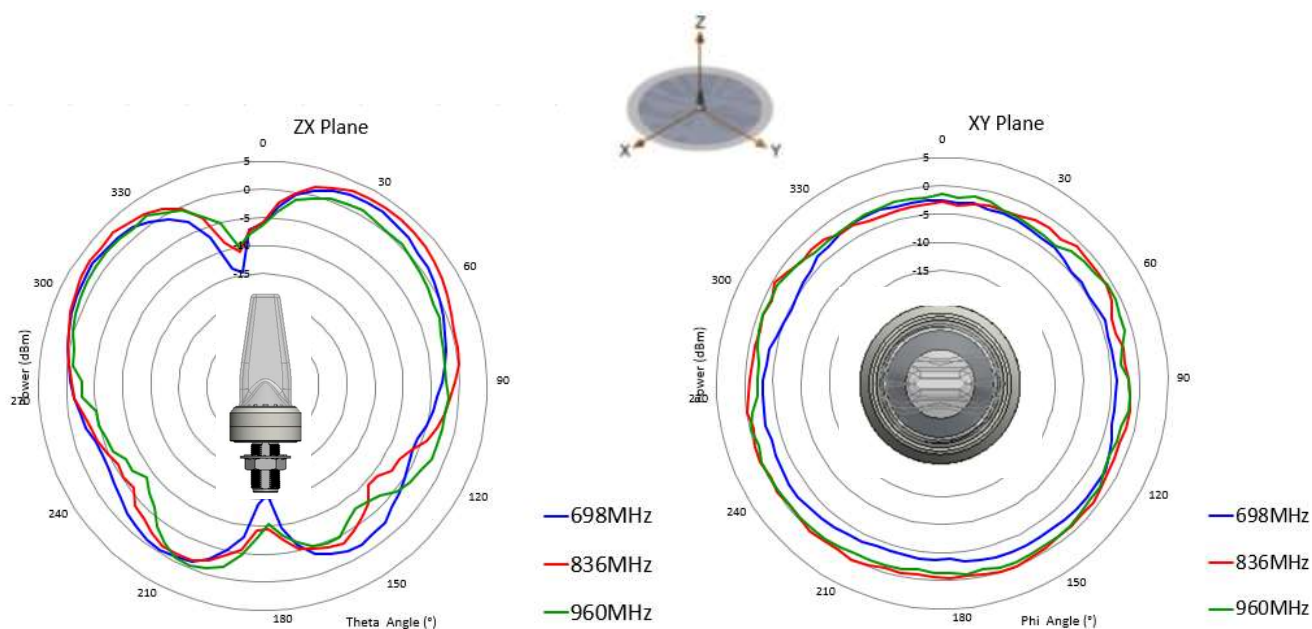
## CHARTS

### Free Space Radiation Pattern

ICEFINLDMN

#### Elevation Plane

#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

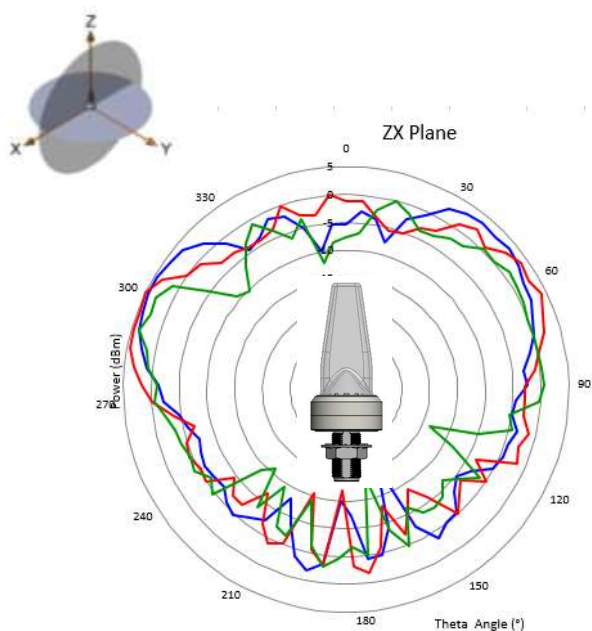
PART NUMBER: ICEFINXXX

## CHARTS

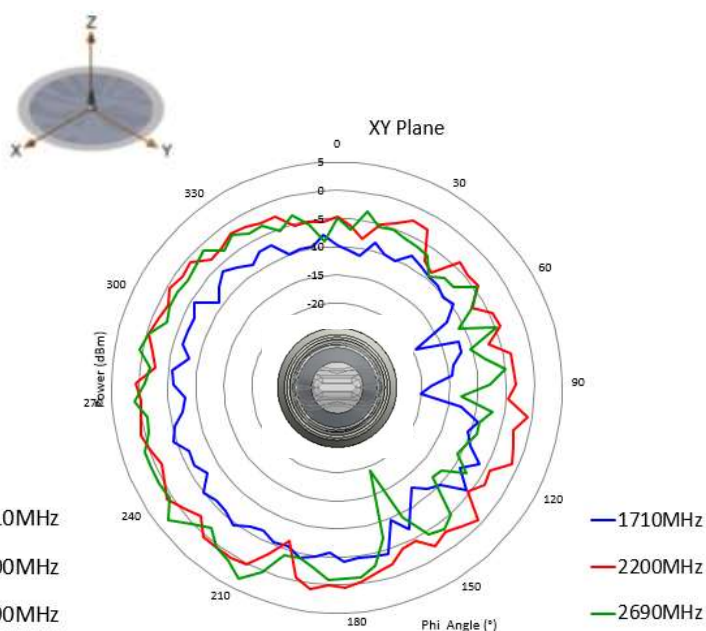
### Free Space Radiation Pattern

ICEFINLDMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

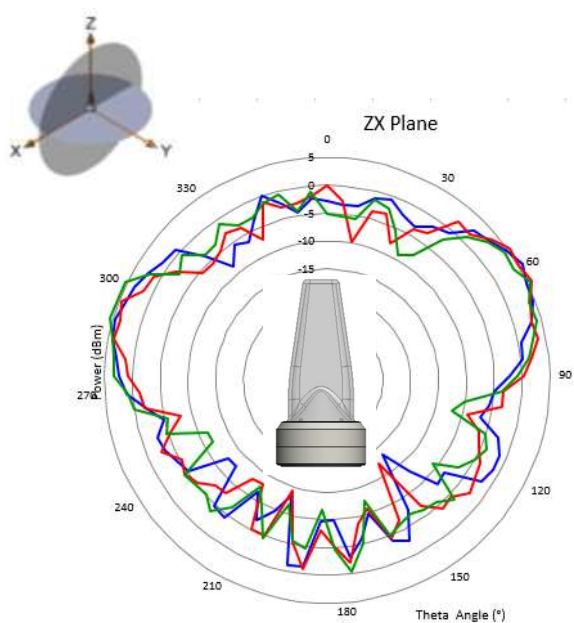
PART NUMBER: ICEFINXXX

## CHARTS

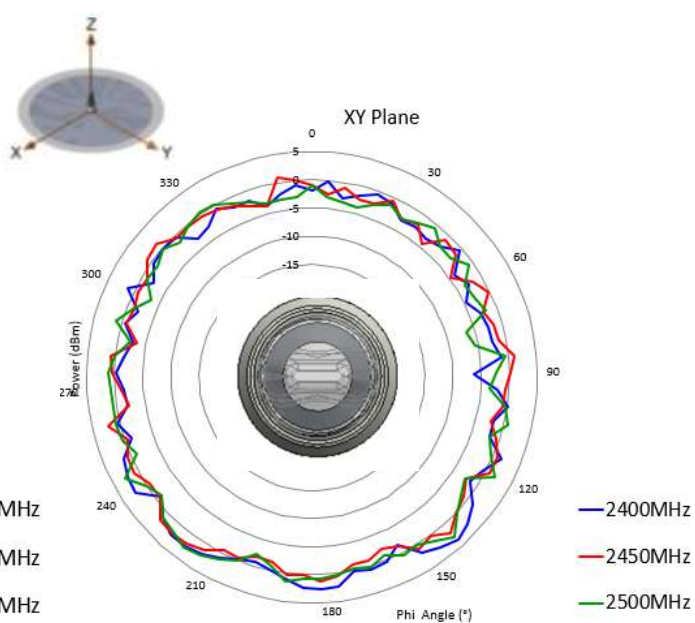
### Free Space Radiation Pattern

ICEFIN24NMOHF

#### Elevation Plane



#### Horizontal Plane



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

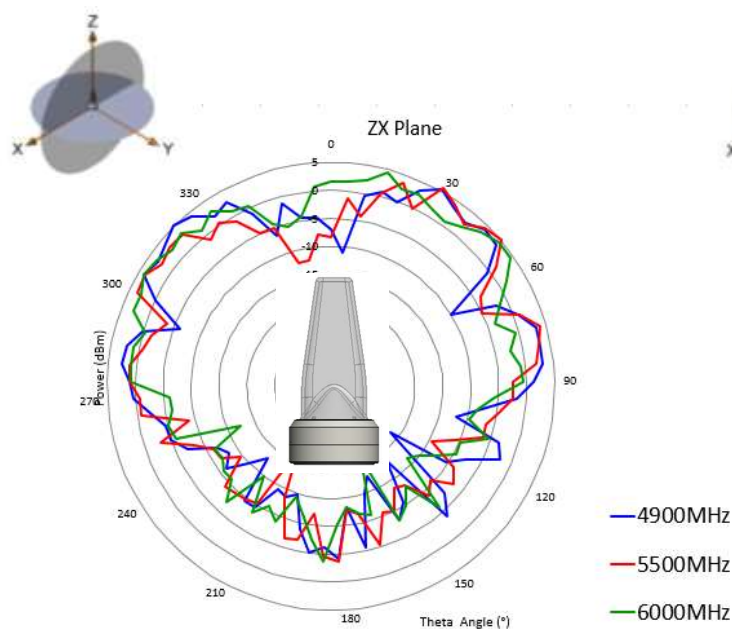
PART NUMBER: ICEFINXXX

## CHARTS

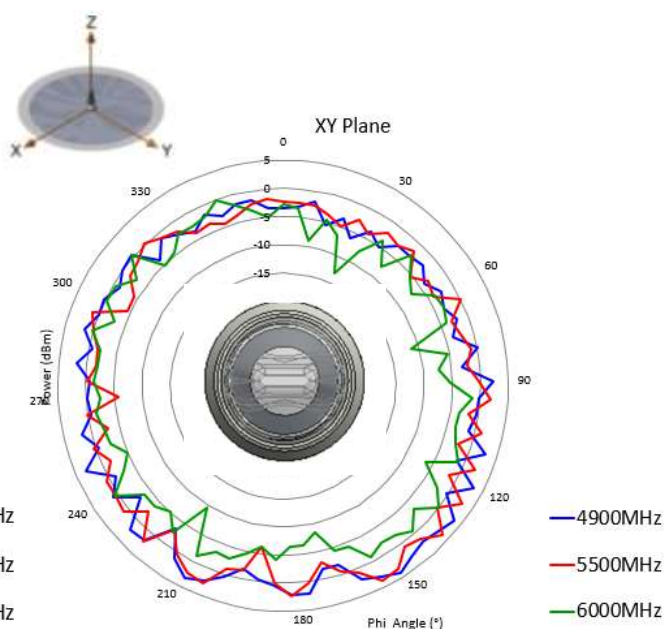
### Free Space Radiation Pattern

ICEFIN49NMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

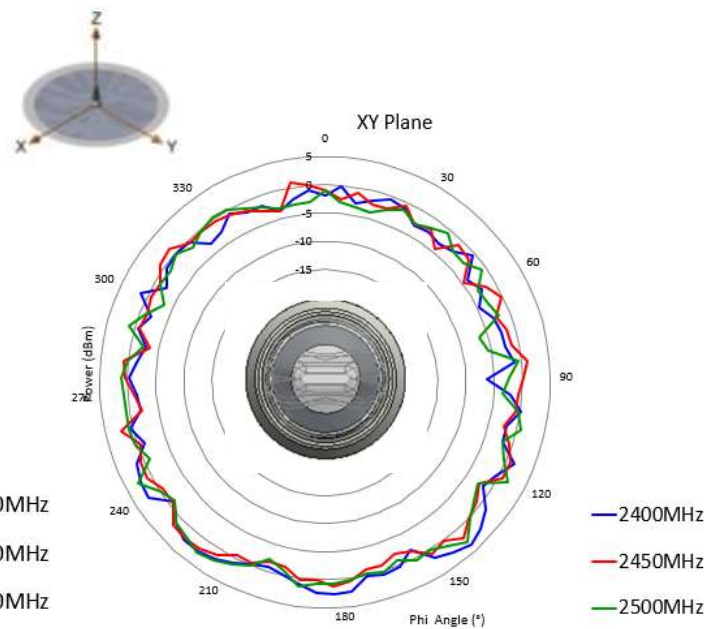
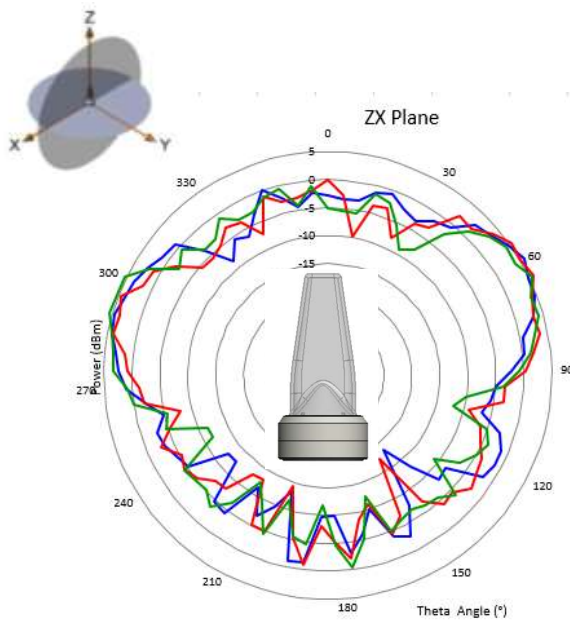
## CHARTS

### Free Space Radiation Pattern

ICEFINWNMOHF

#### Elevation Plane

#### Horizontal Plane



Issue: 1743

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Series: IceFin

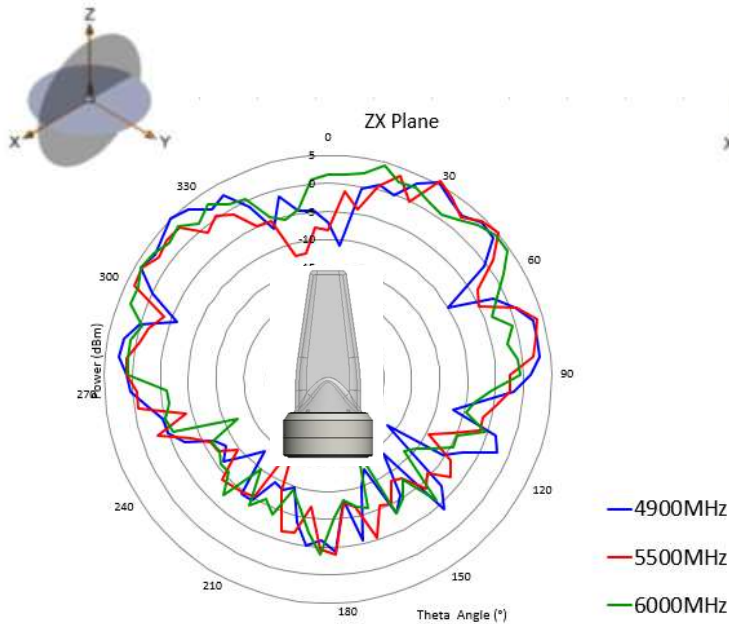
PART NUMBER: ICEFINXXX

## CHARTS

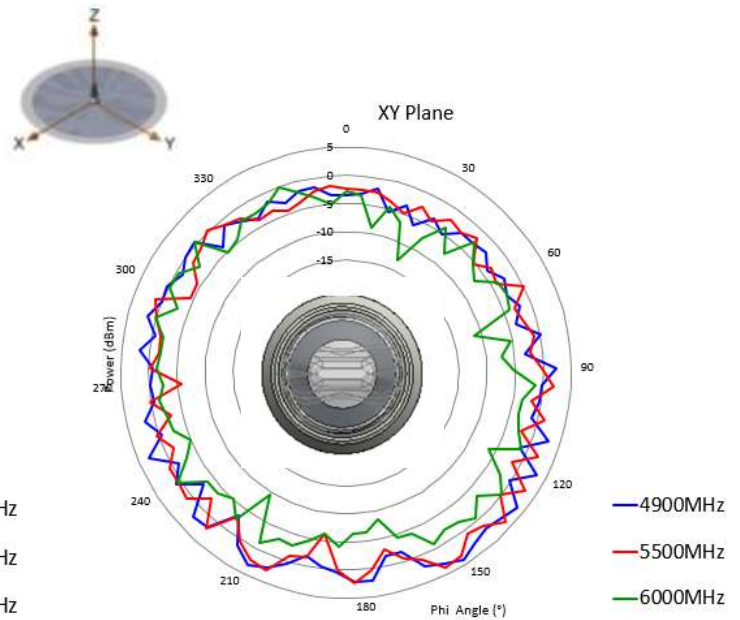
### Free Space Radiation Pattern

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

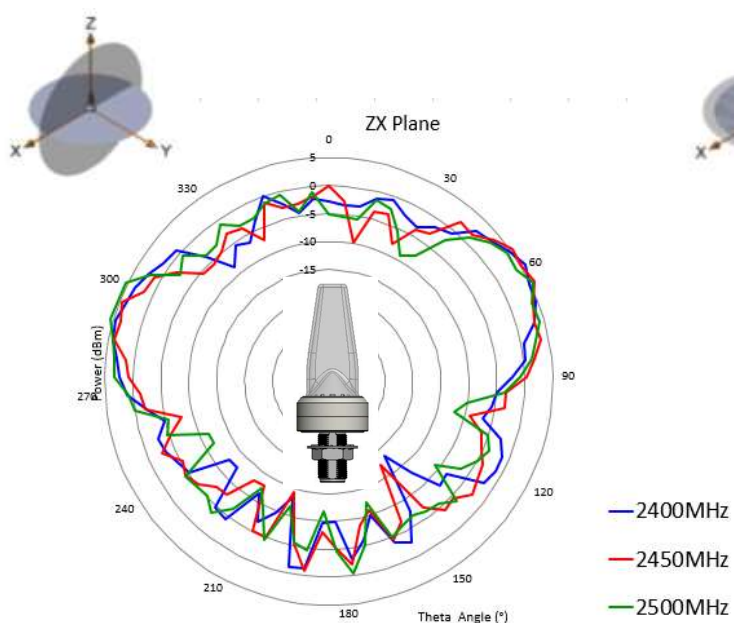
PART NUMBER: ICEFINXXX

## CHARTS

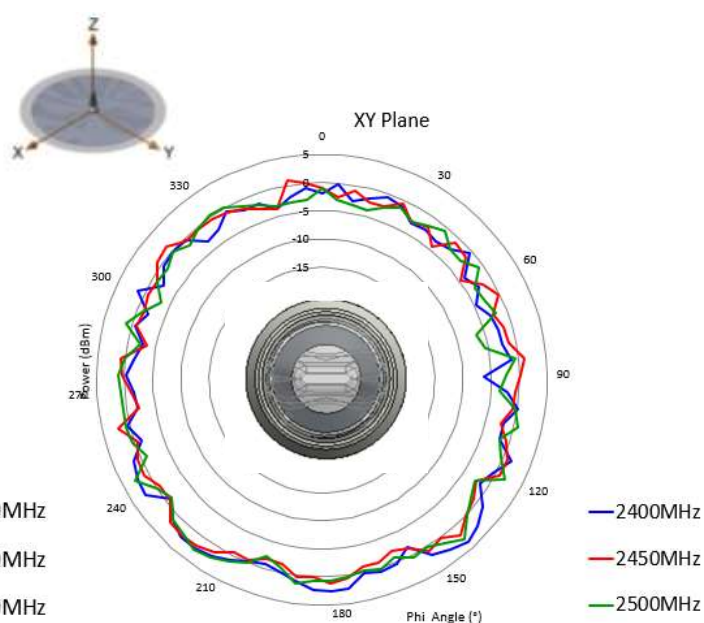
### Free Space Radiation Pattern

ICEFIN24DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

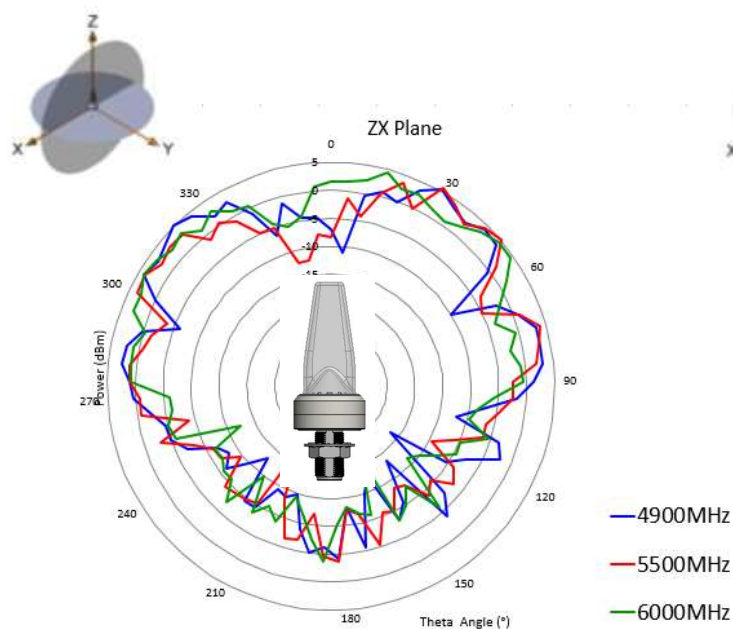
PART NUMBER: ICEFINXXX

## CHARTS

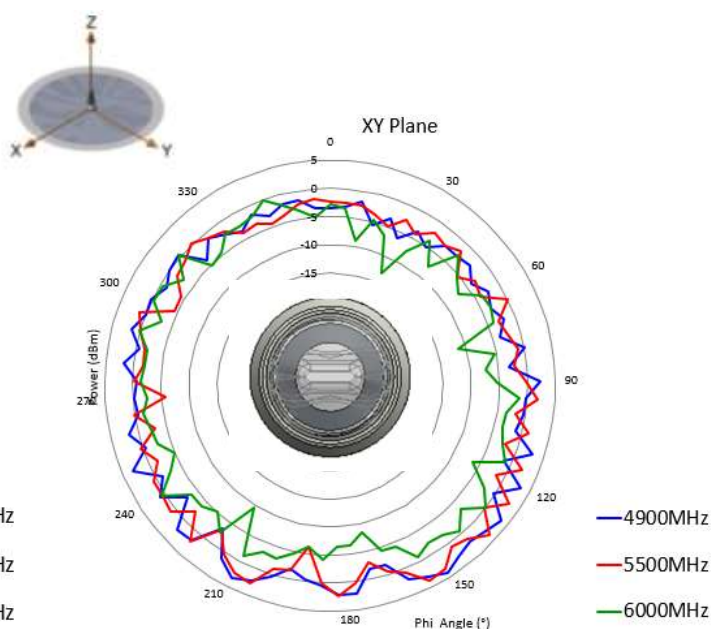
### Free Space Radiation Pattern

ICEFIN49DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

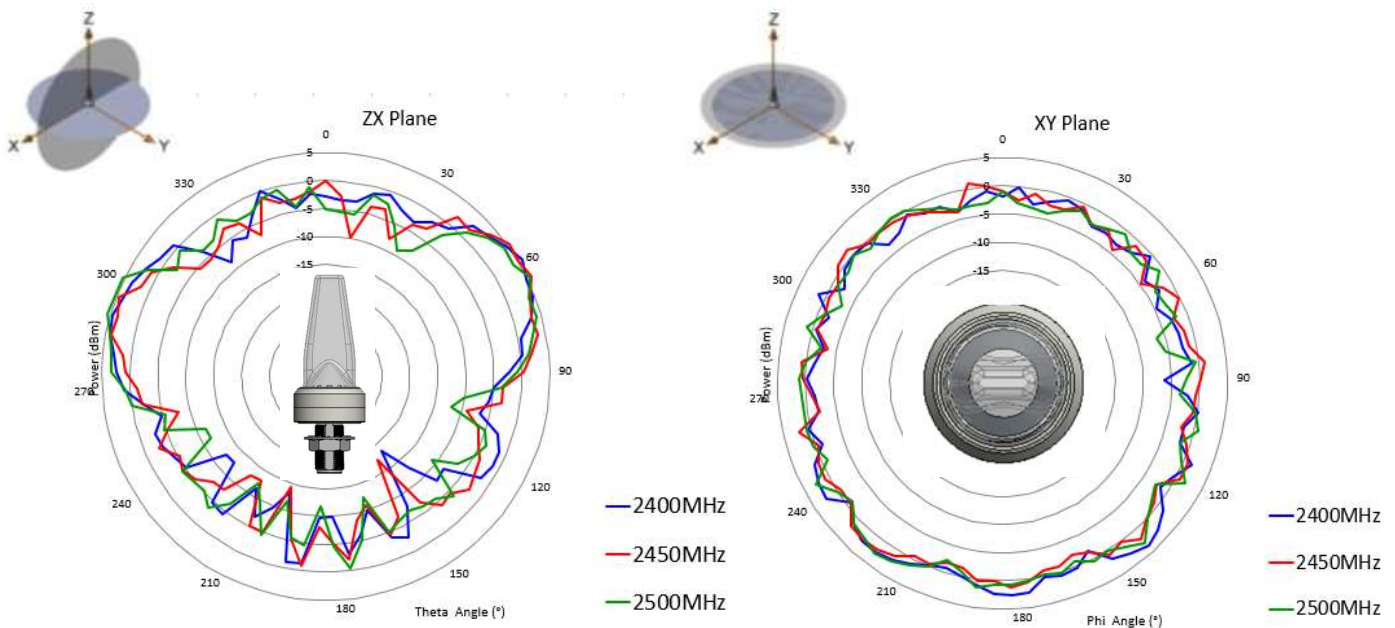
## CHARTS

### Free Space Radiation Pattern

ICEFINWDMN

#### Elevation Plane

#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

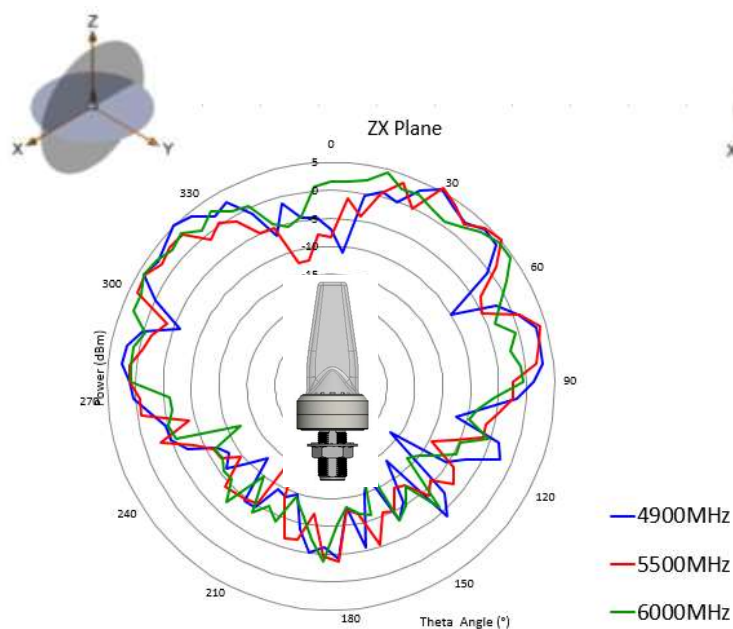
PART NUMBER: ICEFINXXX

## CHARTS

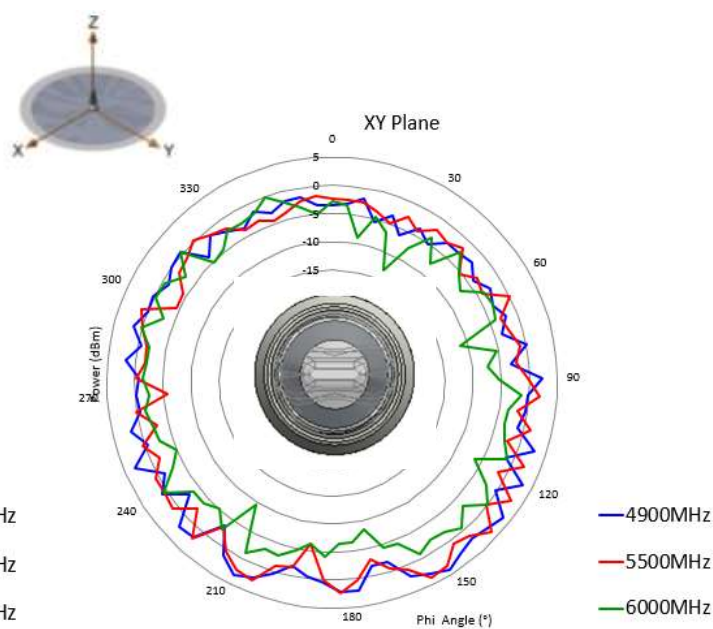
### Free Space Radiation Pattern

ICEFINWDMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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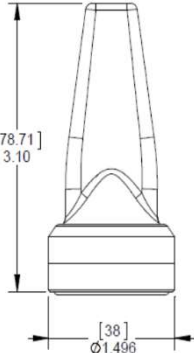
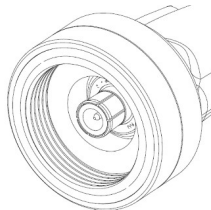
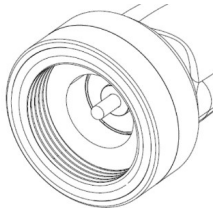
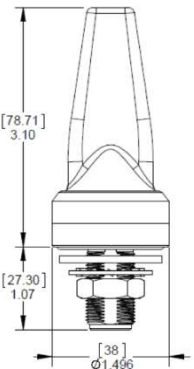
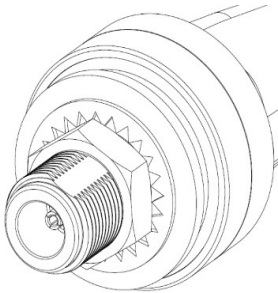
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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

## PACKAGING

Project	Color	Frequency	Size	Fixing System Connector	Packaging
ICEFINLNMOHF	Clarity	698-960MHz 1710-2700MHz		 NMOHF NMO + HF Connector	16 pcs / Tray 32 pcs / Carton
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)	96 pcs / Carton
ICEFIN806DMN	Clarity	806-960MHz			
ICEFINLDMN	Clarity	698-960MHz 1710-2700MHz			

Issue: 1743

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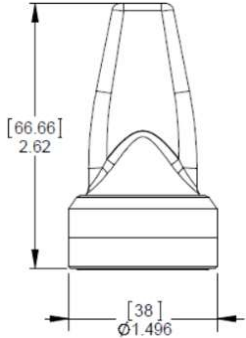
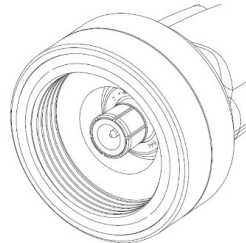
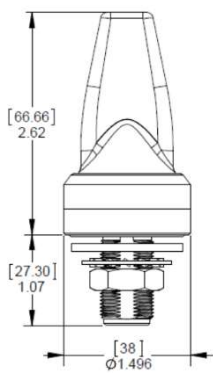
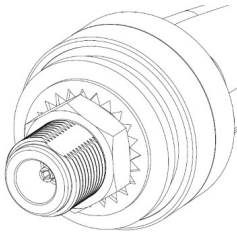
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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

## PACKAGING

Project	Color	Frequency	Size	Fixing System Connector	Packaging
ICEFIN24NMOHF	Clarity	2400-2500MHz		  NMOHF NMO + HF Connector	<b>16 pcs / Tray</b> <b>32 pcs / Carton</b>
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)	<b>96 pcs / Carton</b>
ICEFIN49DMN	Clarity	4900-6000MHz			<b>16 pcs / Tray</b> <b>32 pcs / Carton</b>
ICEFINWVDMN	Clarity	2400-2500MHz 4900-6000MHz			<b>96 pcs / Carton</b>

Issue: 1743

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Web: <http://oceanchips.ru/>

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