

**Series: IceFin**

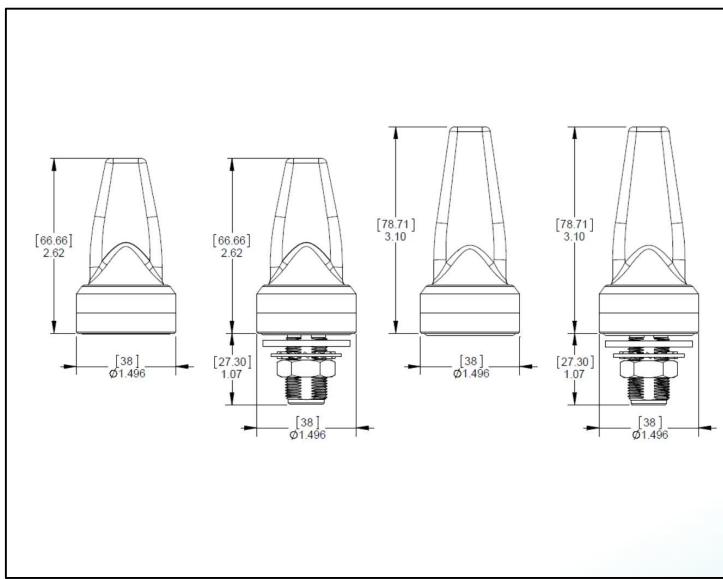
**Description: LOW PROFILE MULTIBAND ANTENNA**

**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



All dimensions are in mm / inches

### 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

Issue: 1743

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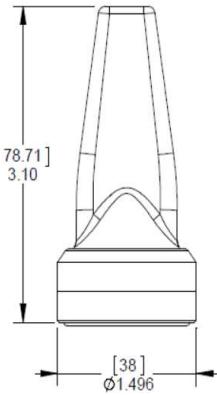
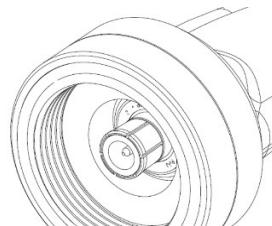
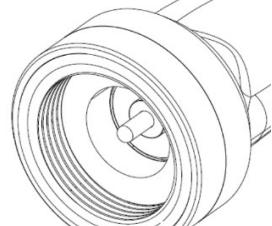
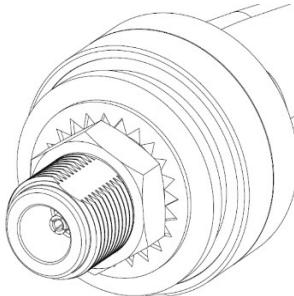
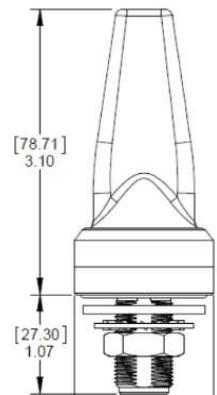
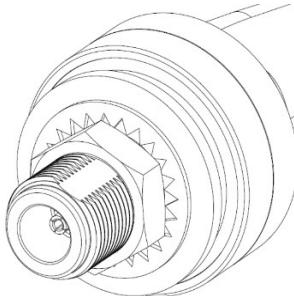
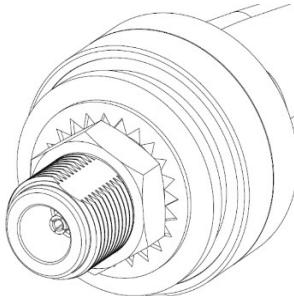
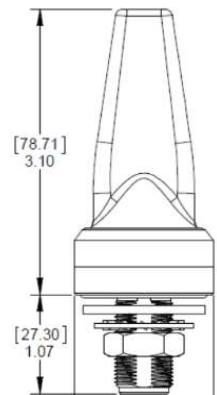
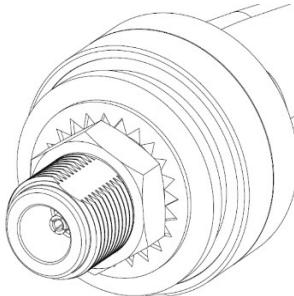


Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

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

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

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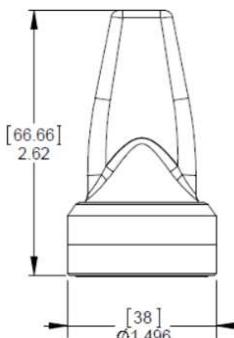
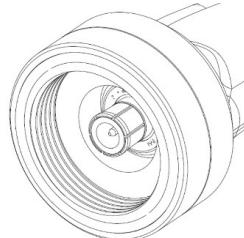
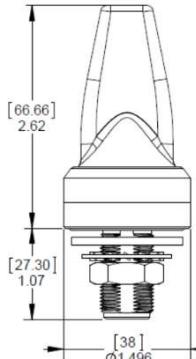
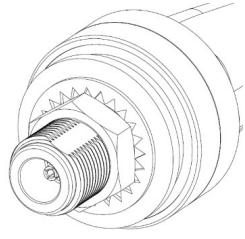


Description: LOW PROFILE MULTIBAND  
ANTENNA

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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Description: LOW PROFILE MULTIBAND  
 ANTENNA

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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Series: IceFin

Description: LOW PROFILE MULTIBAND  
ANTENNA

PART NUMBER: ICEFINXXX

## MECHANICAL SPECIFICATIONS

Plastic radome	PC
Color	Clarity
Ingress Protection	IP67

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 ~ +85° C
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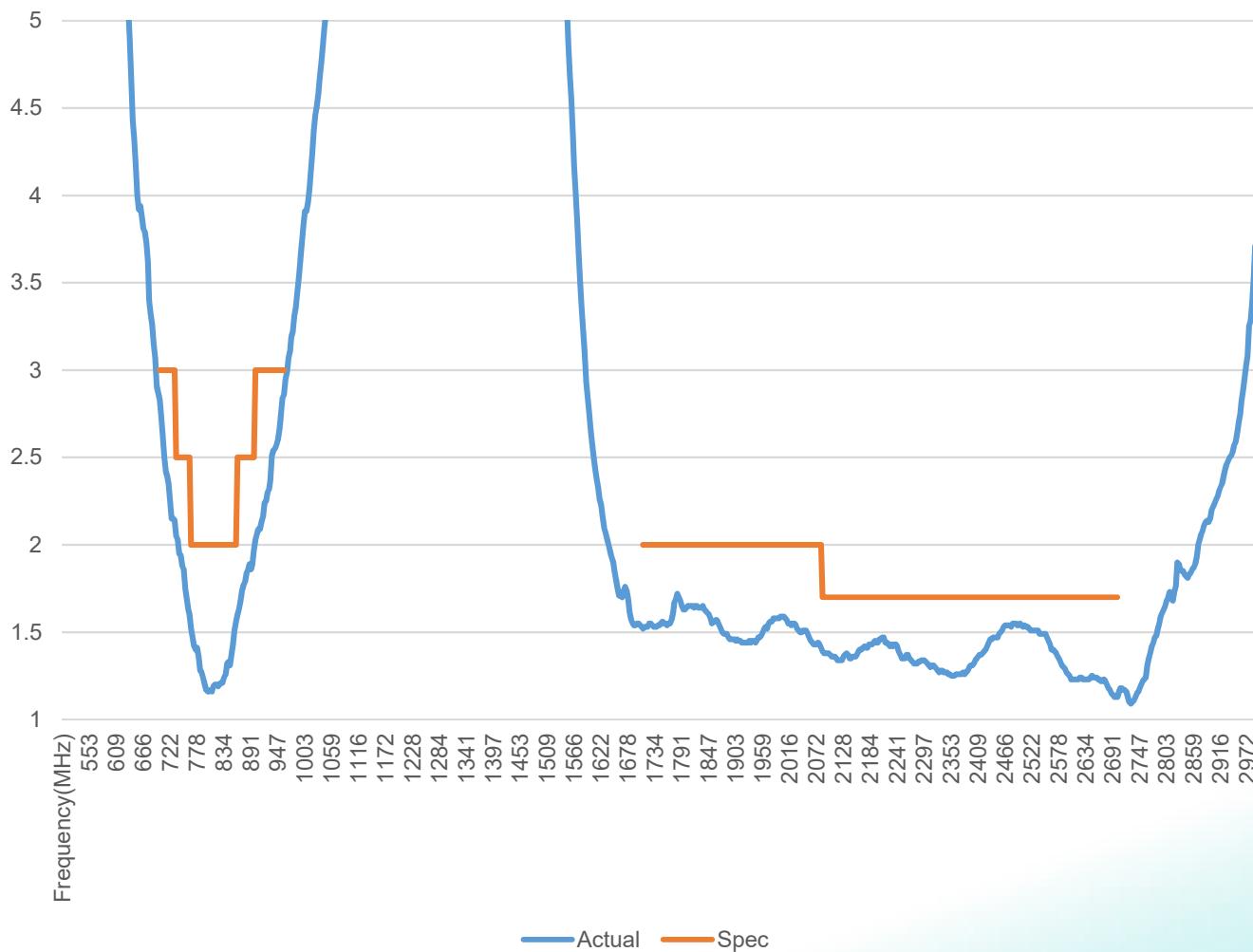
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### VSWR

#### ICEFINLNMOHF VSWR



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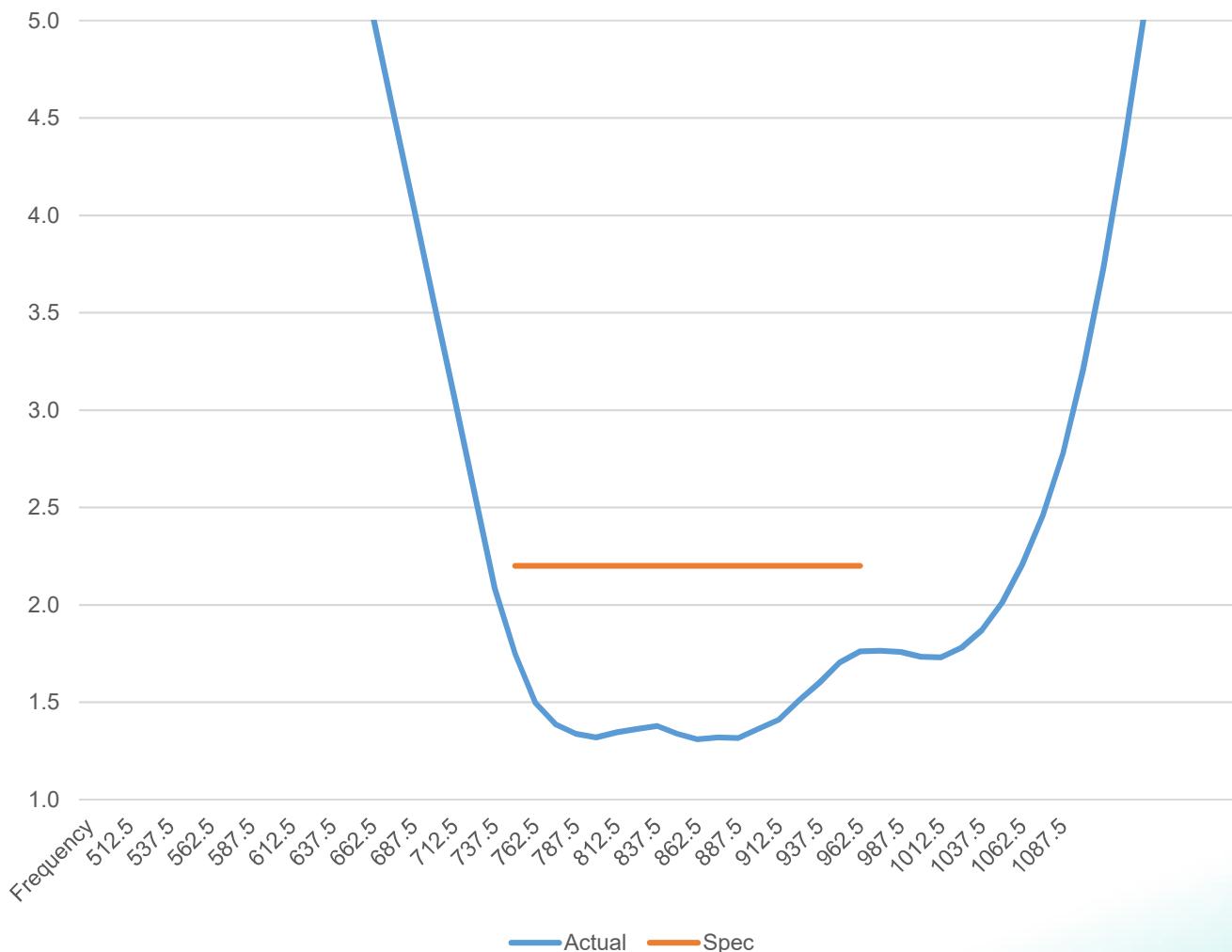
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## CHARTS

### VSWR

ICEFIN698/960NMO  
VSWR



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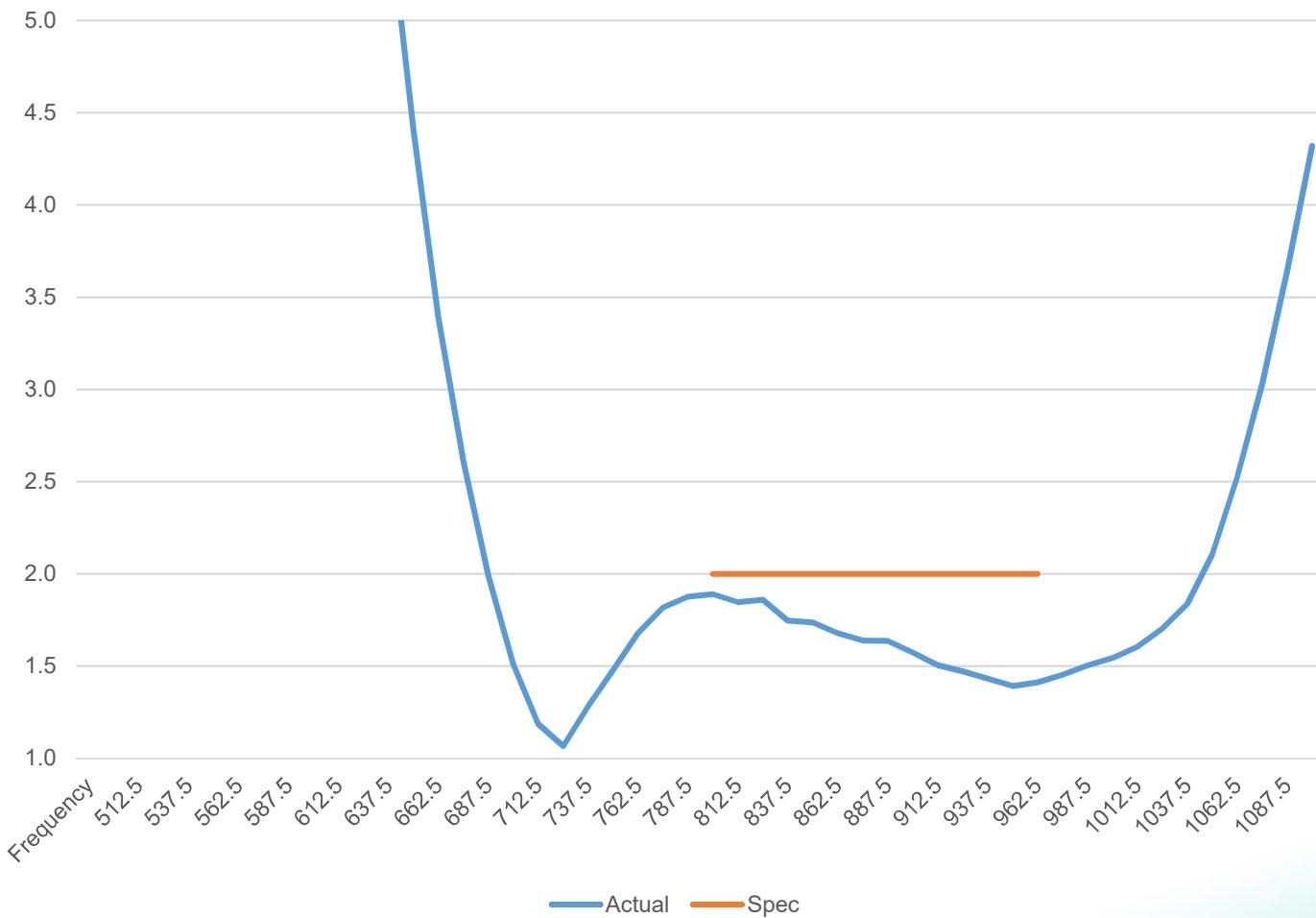
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## CHARTS

### VSWR

#### ICEFIN806NMO VSWR



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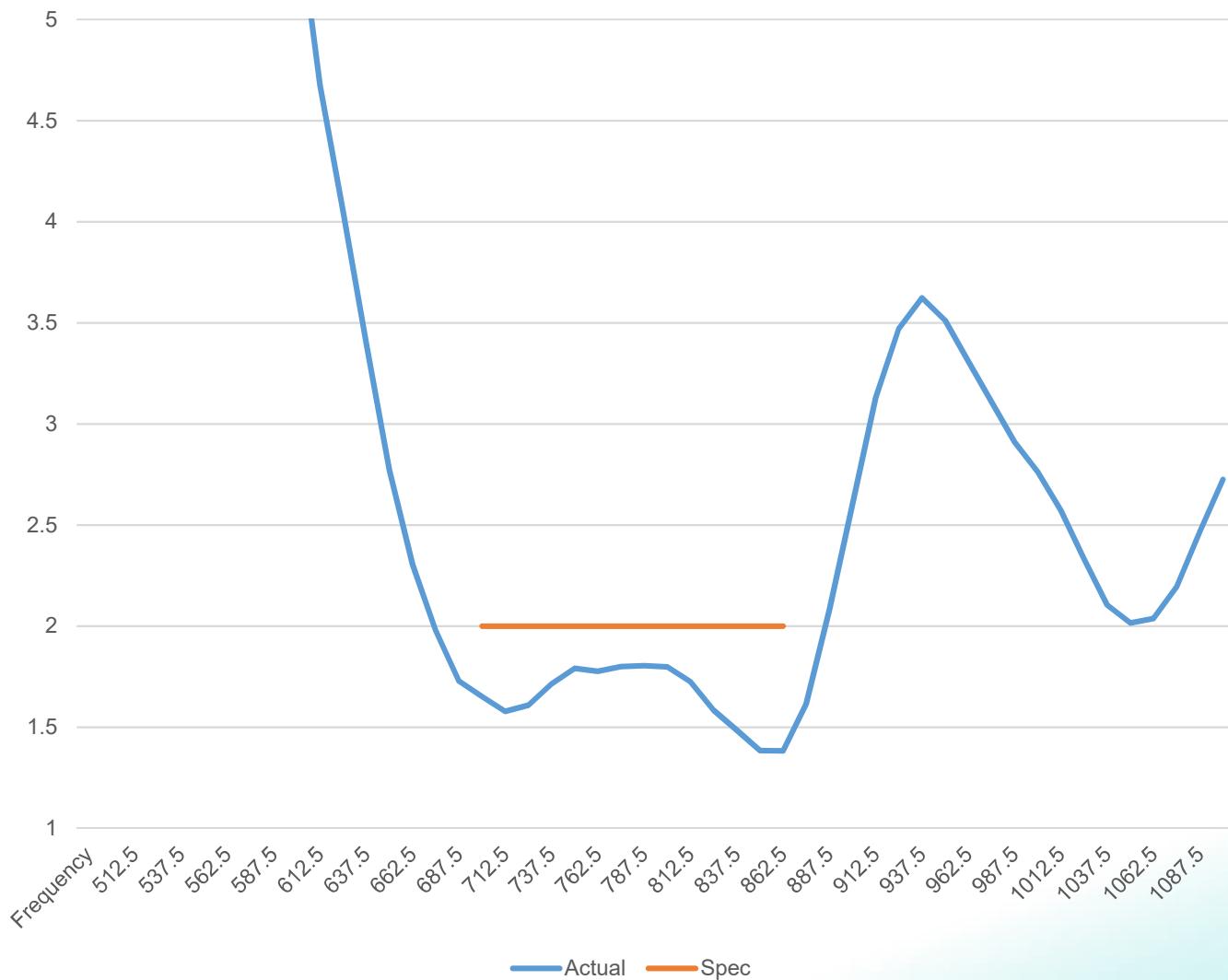
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## CHARTS

### VSWR

#### ICEFIN698/869DMN VSWR



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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### VSWR

#### ICEFIN806DMN VSWR



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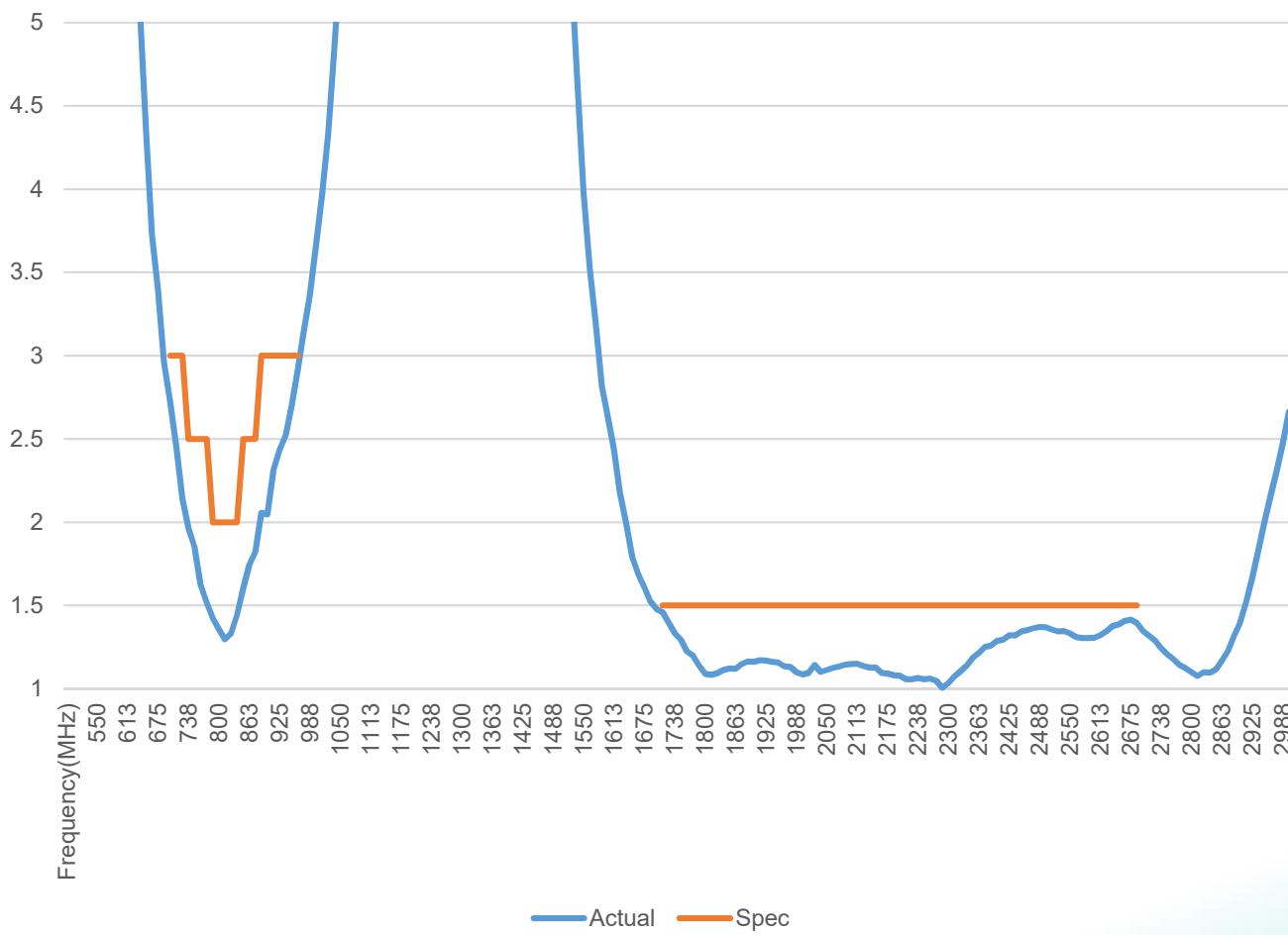
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## CHARTS

### VSWR

#### ICEFINLDMN VSWR



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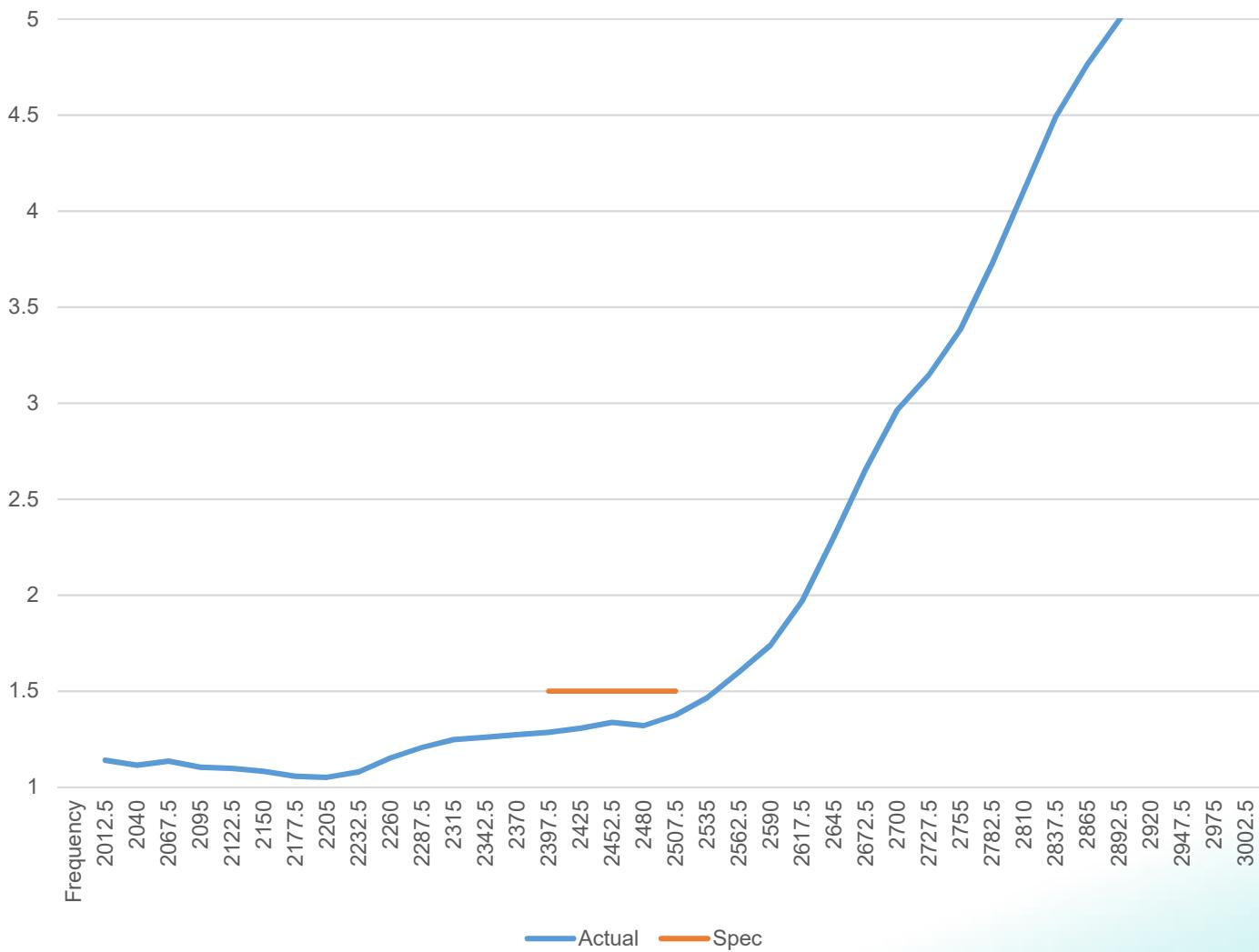
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CHARTS

VSWR

ICEFIN24NMOHF  
VSWR



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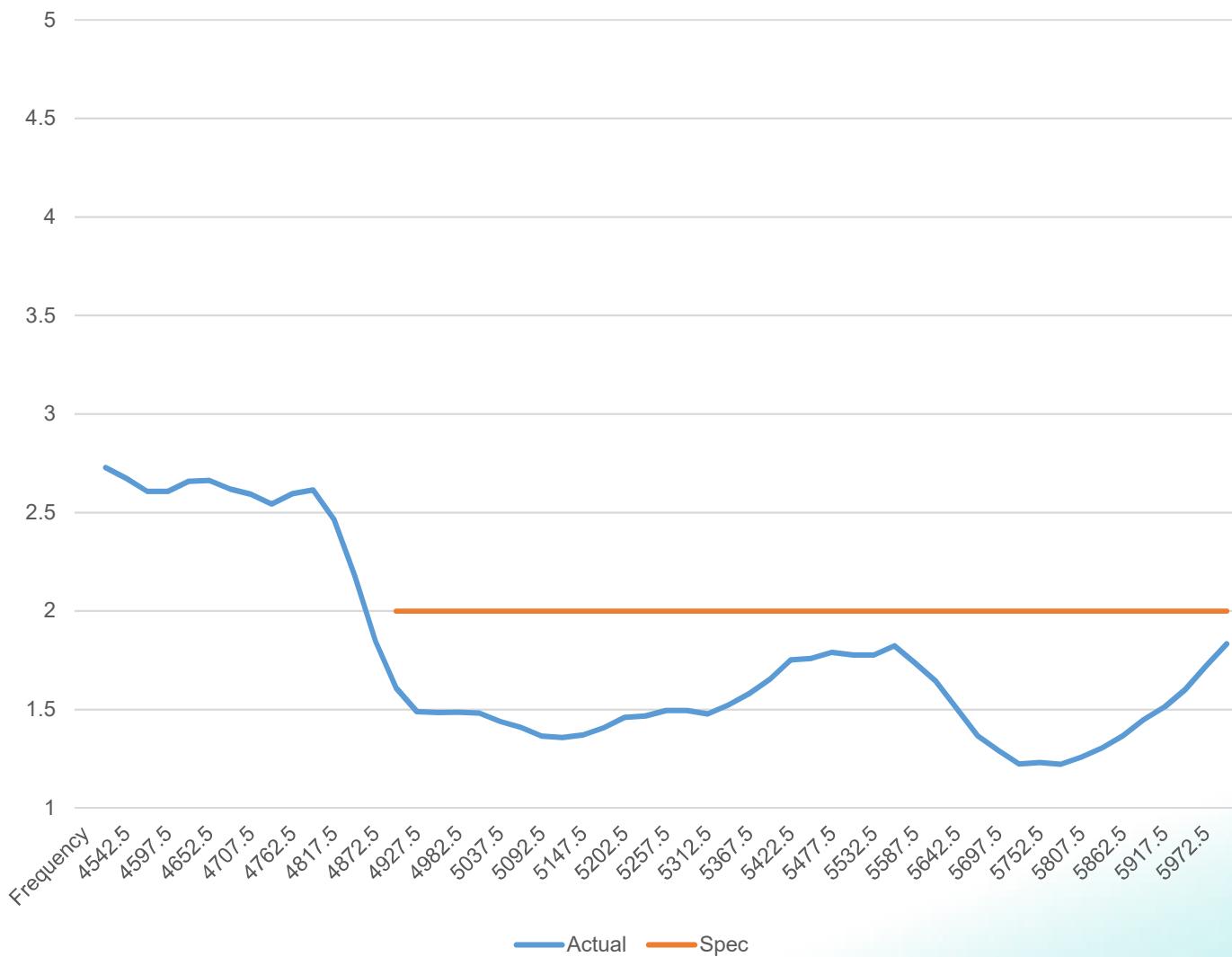
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## CHARTS

### VSWR

#### ICEFIN49NMOHF VSWR



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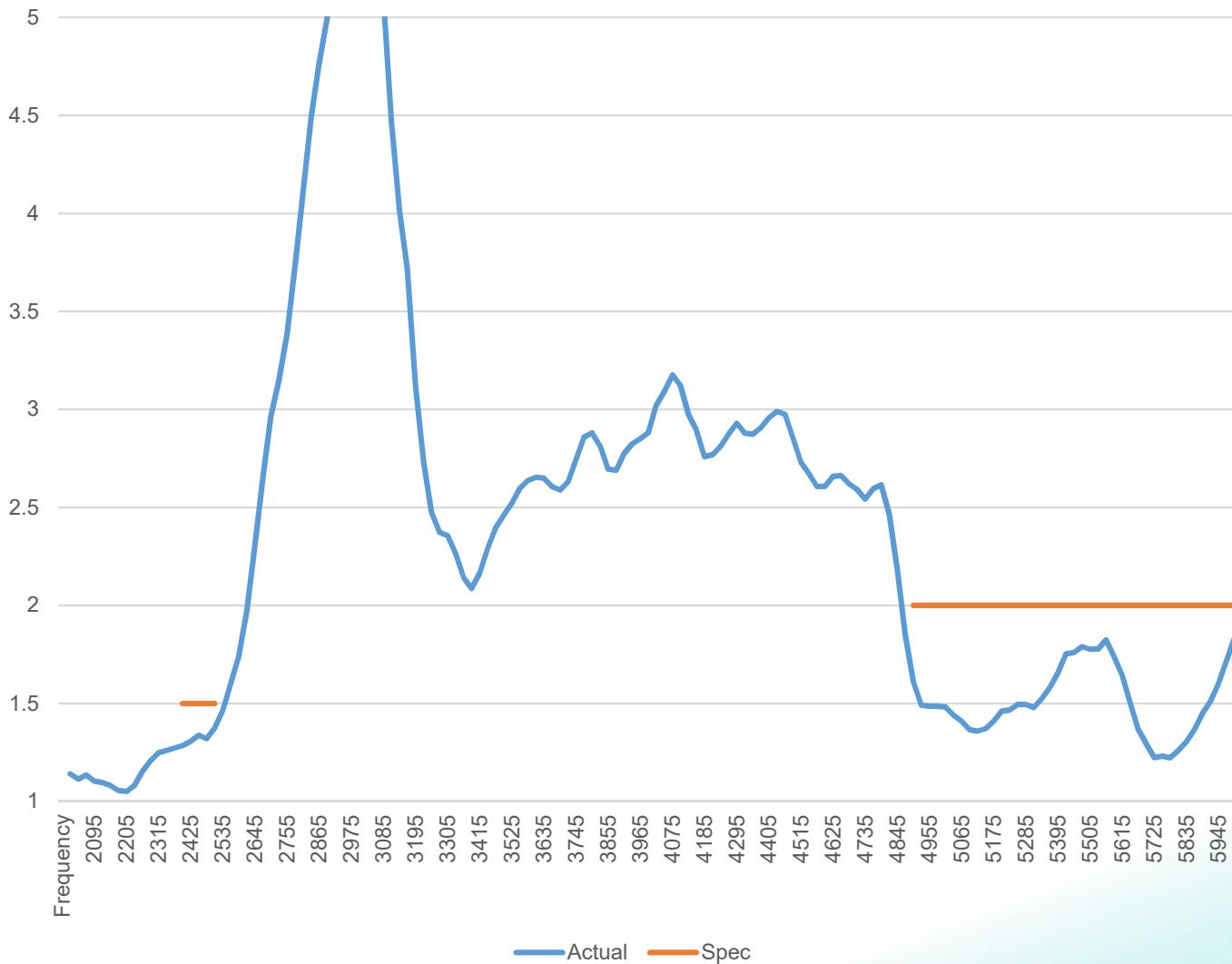
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CHARTS

VSWR

ICEFINWNMOHF  
VSWR



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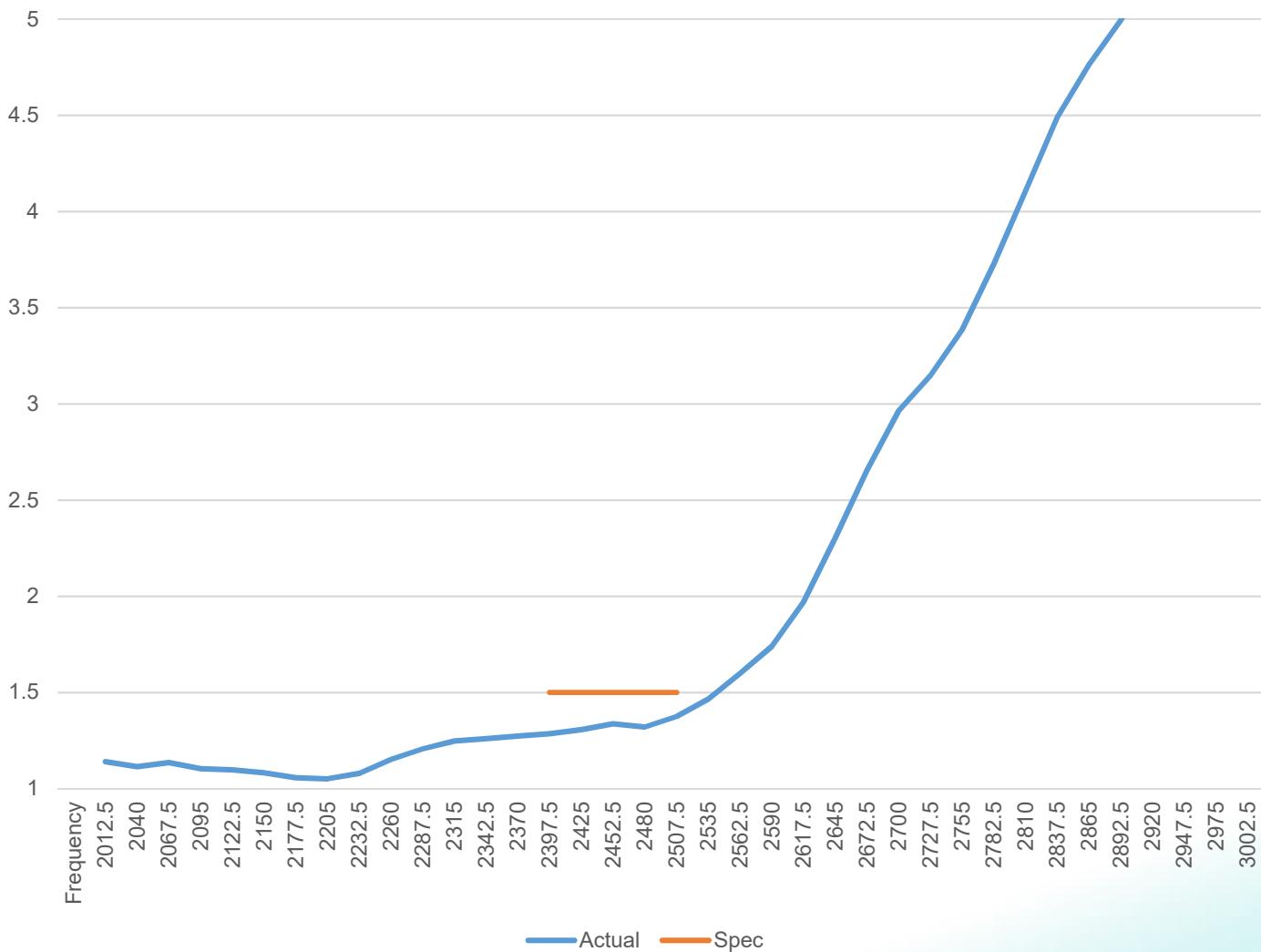
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CHARTS

VSWR

ICEFIN24DMN  
VSWR



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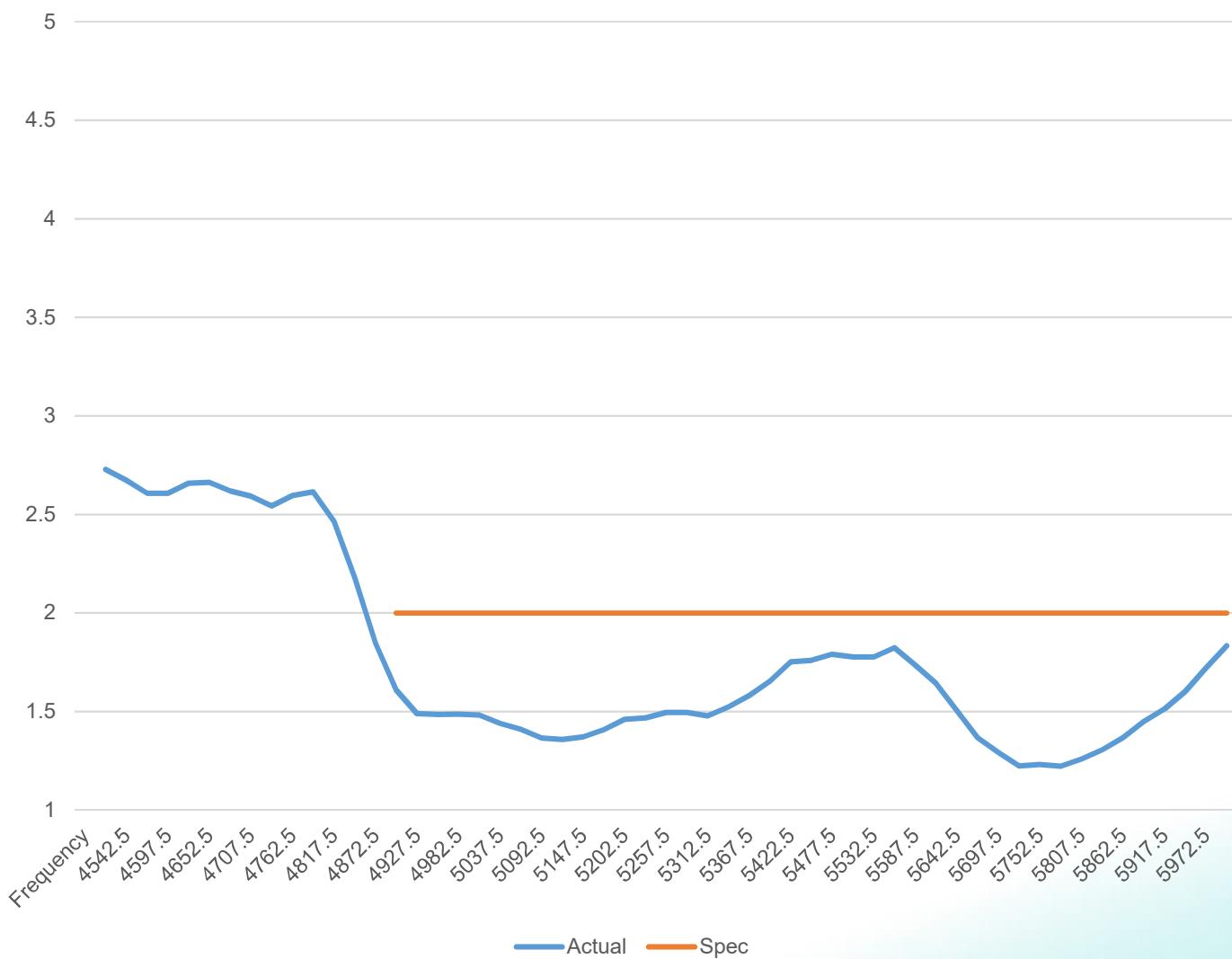
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## CHARTS

### VSWR

#### ICEFIN49DMN VSWR



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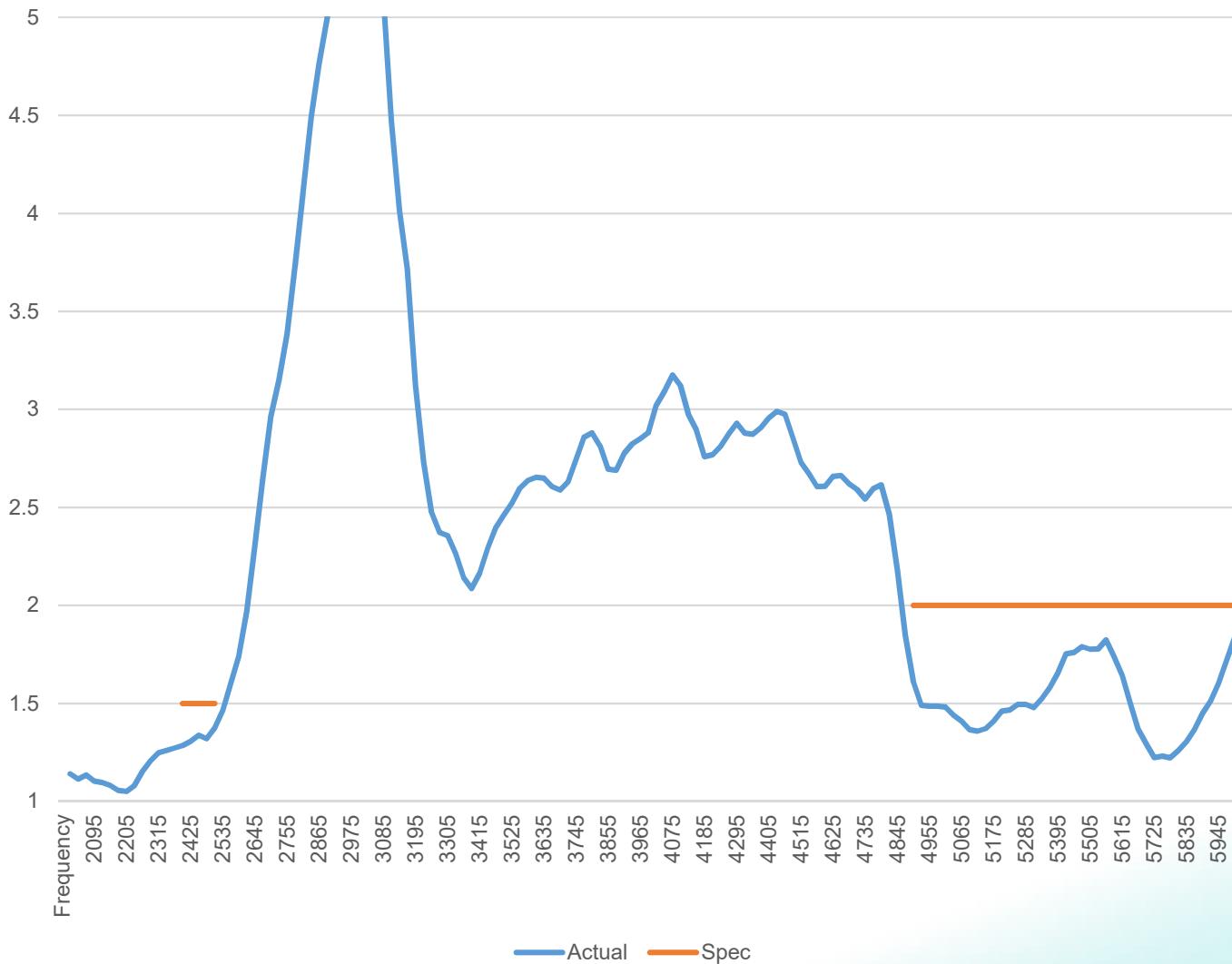
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CHARTS

VSWR

ICEFINWDMN  
VSWR



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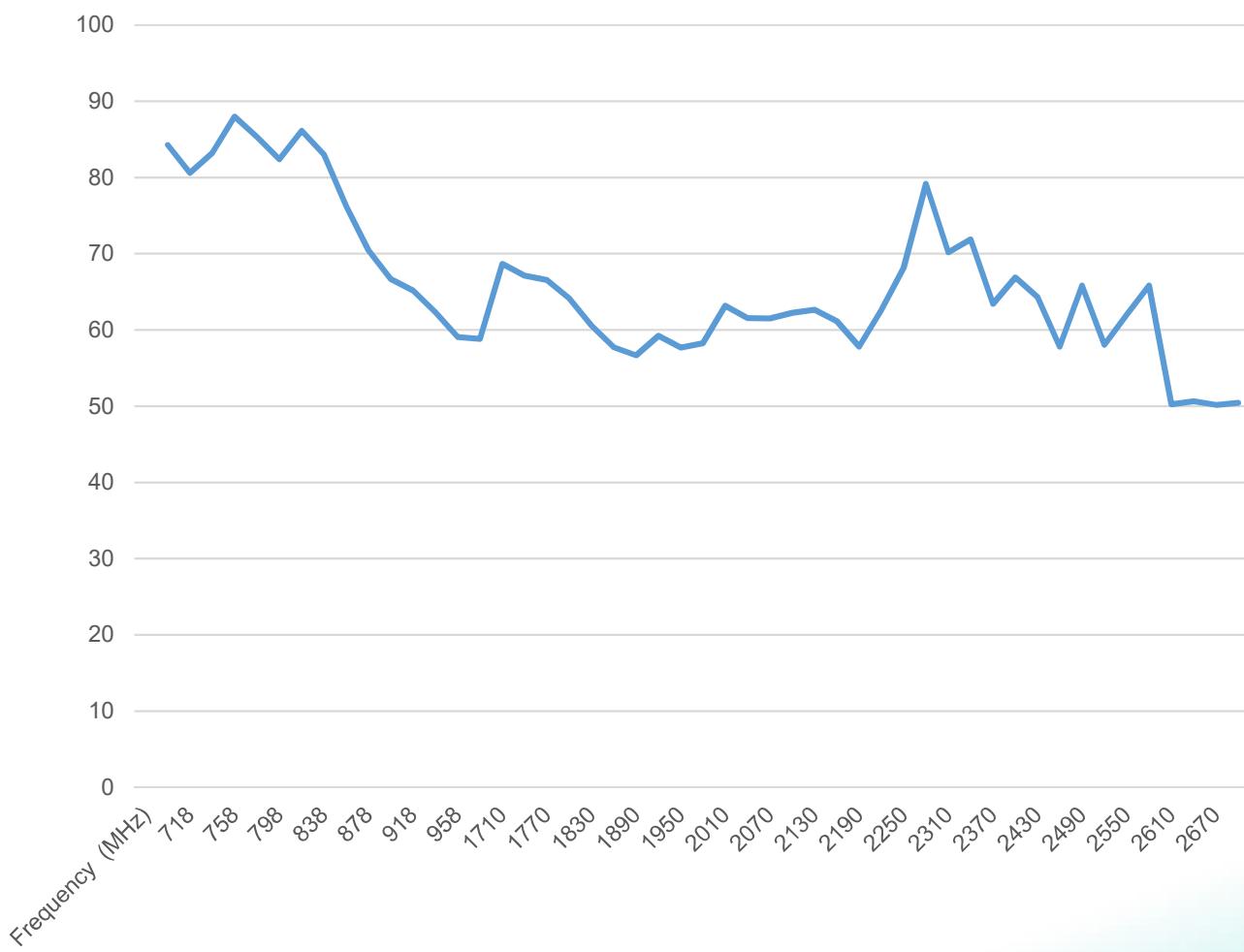
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## CHARTS

Efficiency(%)

ICEFINLNMOHF  
Efficiency (%)



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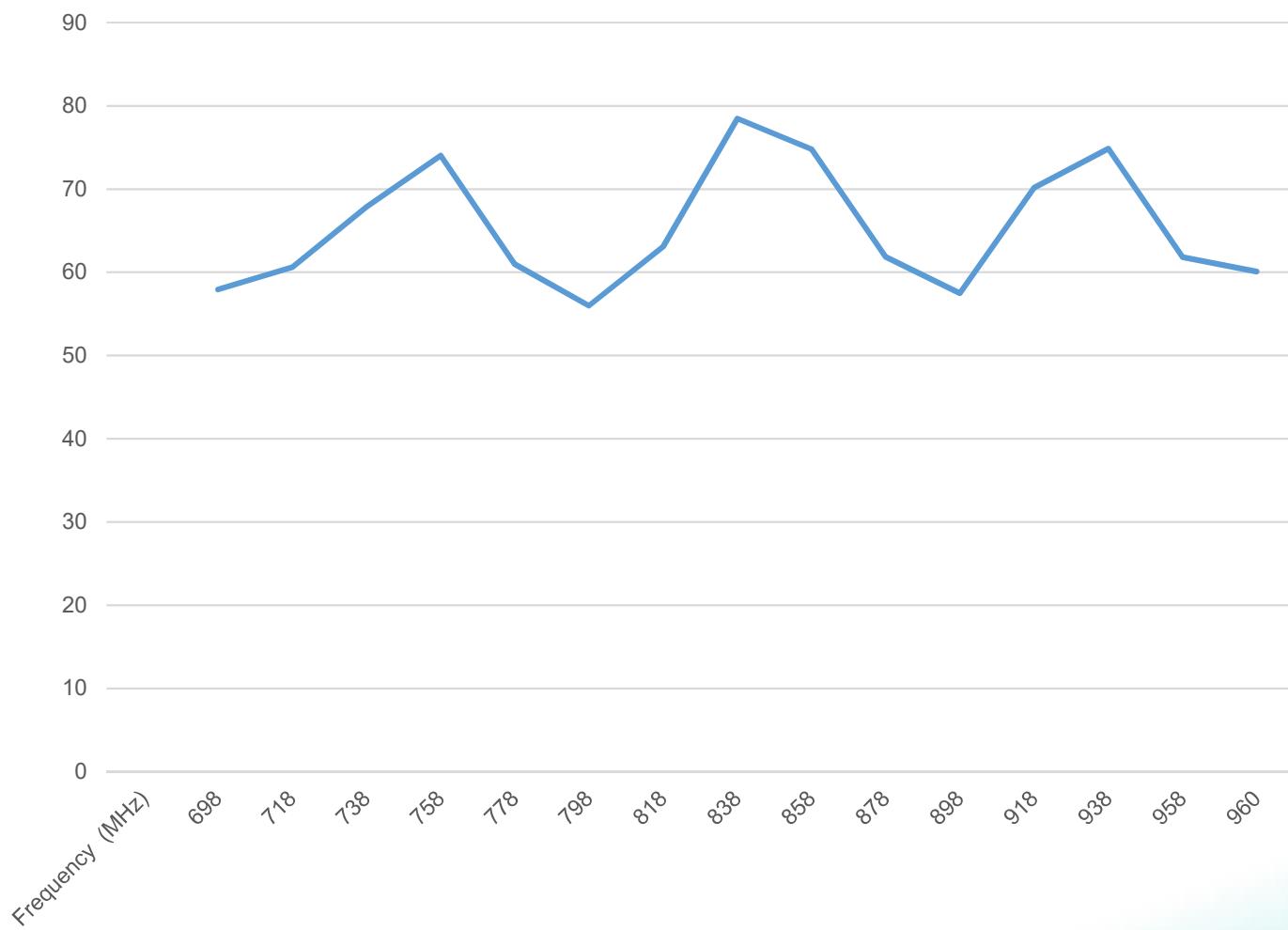
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## CHARTS

Efficiency(%)

ICEFIN698/960NMO  
Efficiency (%)



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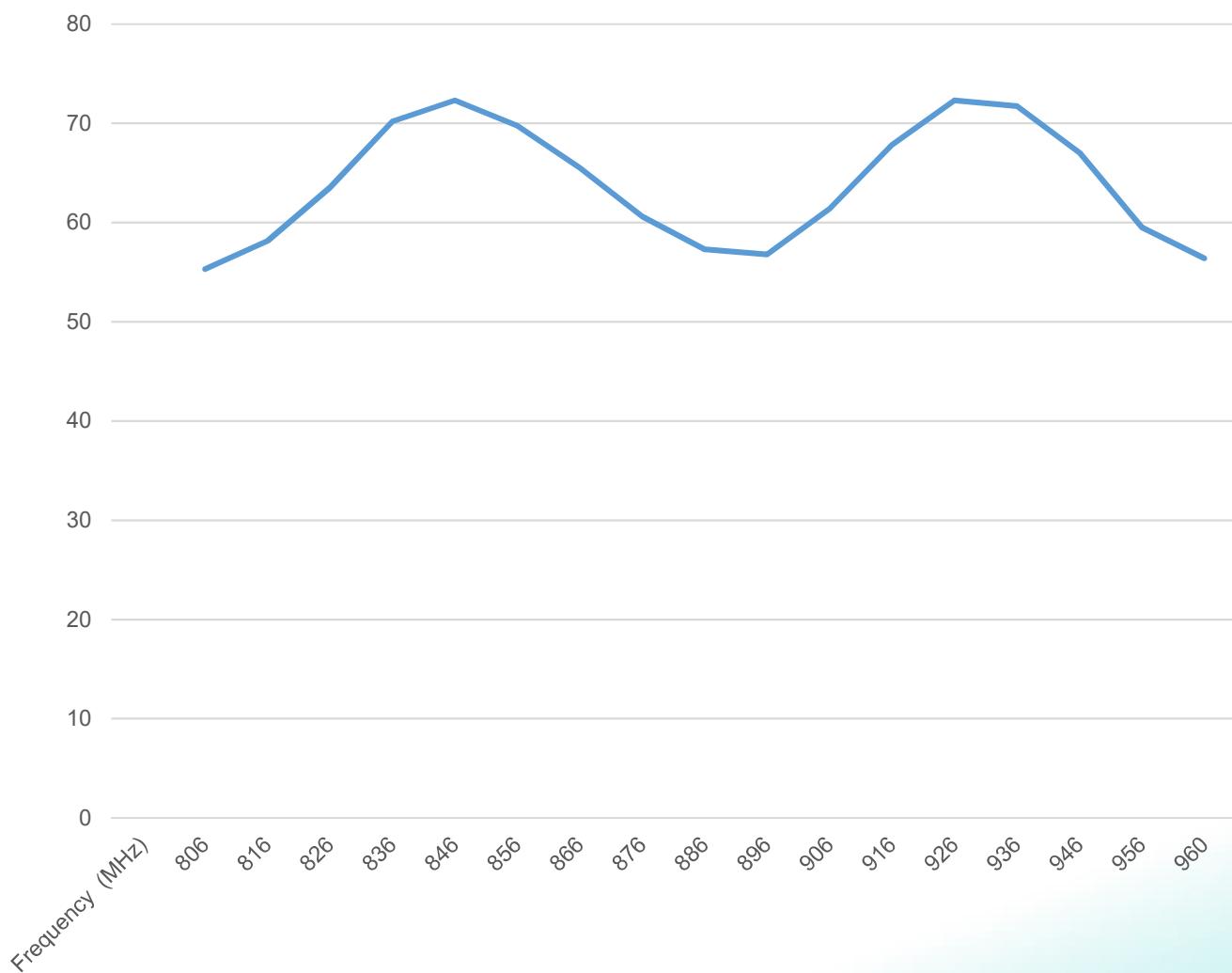
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## CHARTS

Efficiency(%)

ICEFIN806NMO  
Efficiency (%)



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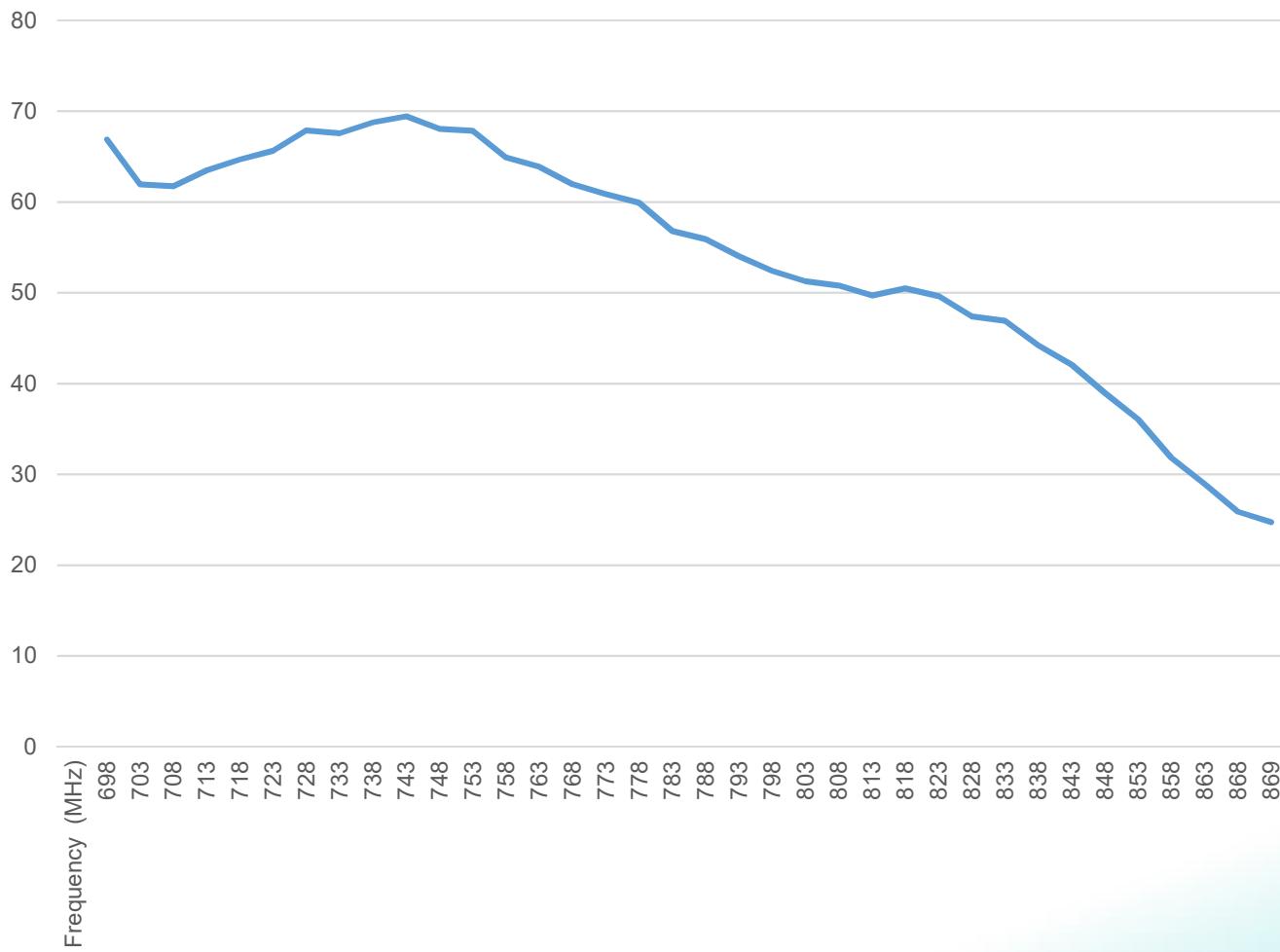
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CHARTS

Efficiency(%)

ICEFIN698/869DMN  
Efficiency (%)



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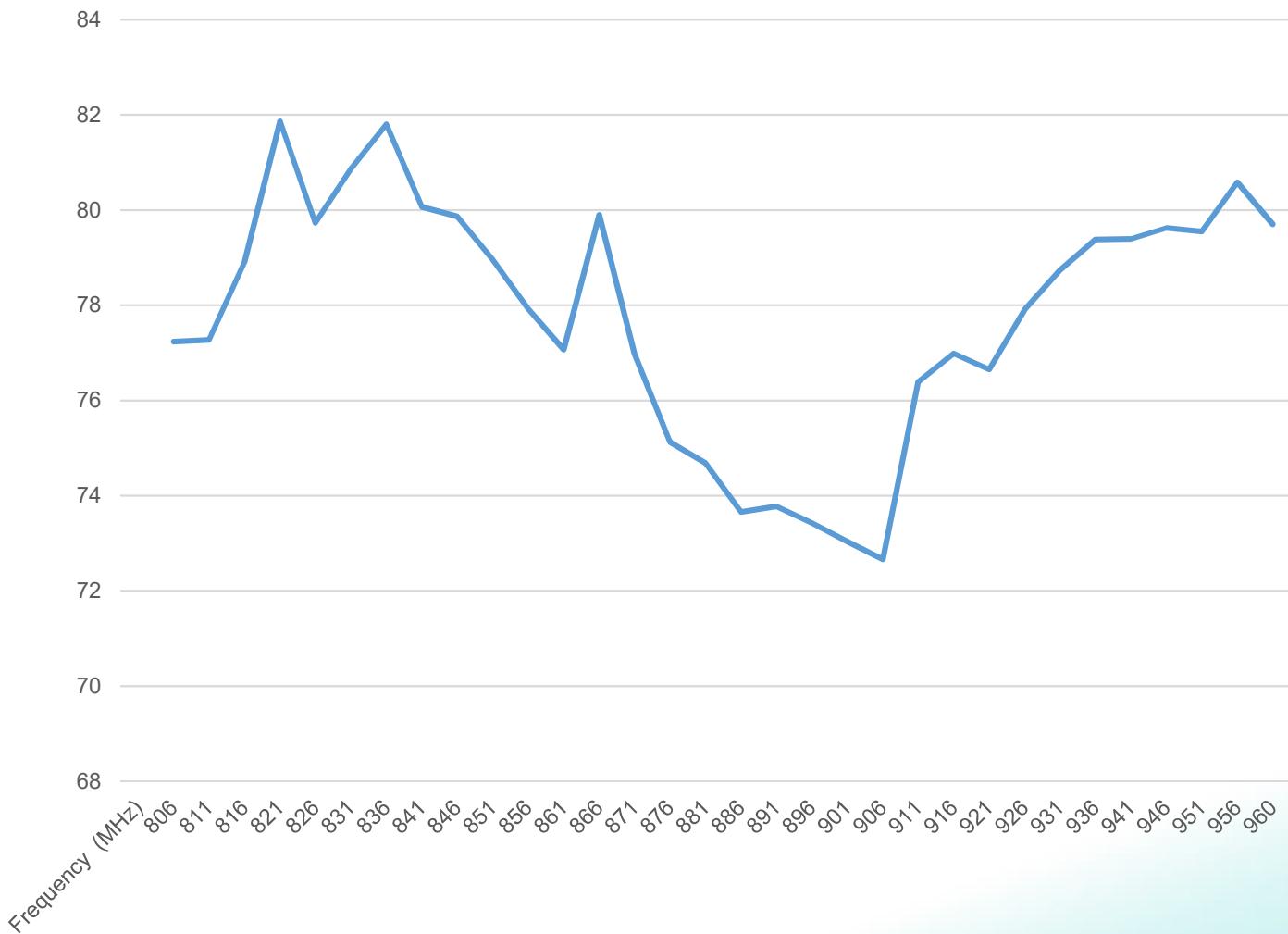
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CHARTS

Efficiency(%)

ICEFIN806DMN  
Efficiency (%)



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Description: LOW PROFILE MULTIBAND  
ANTENNA

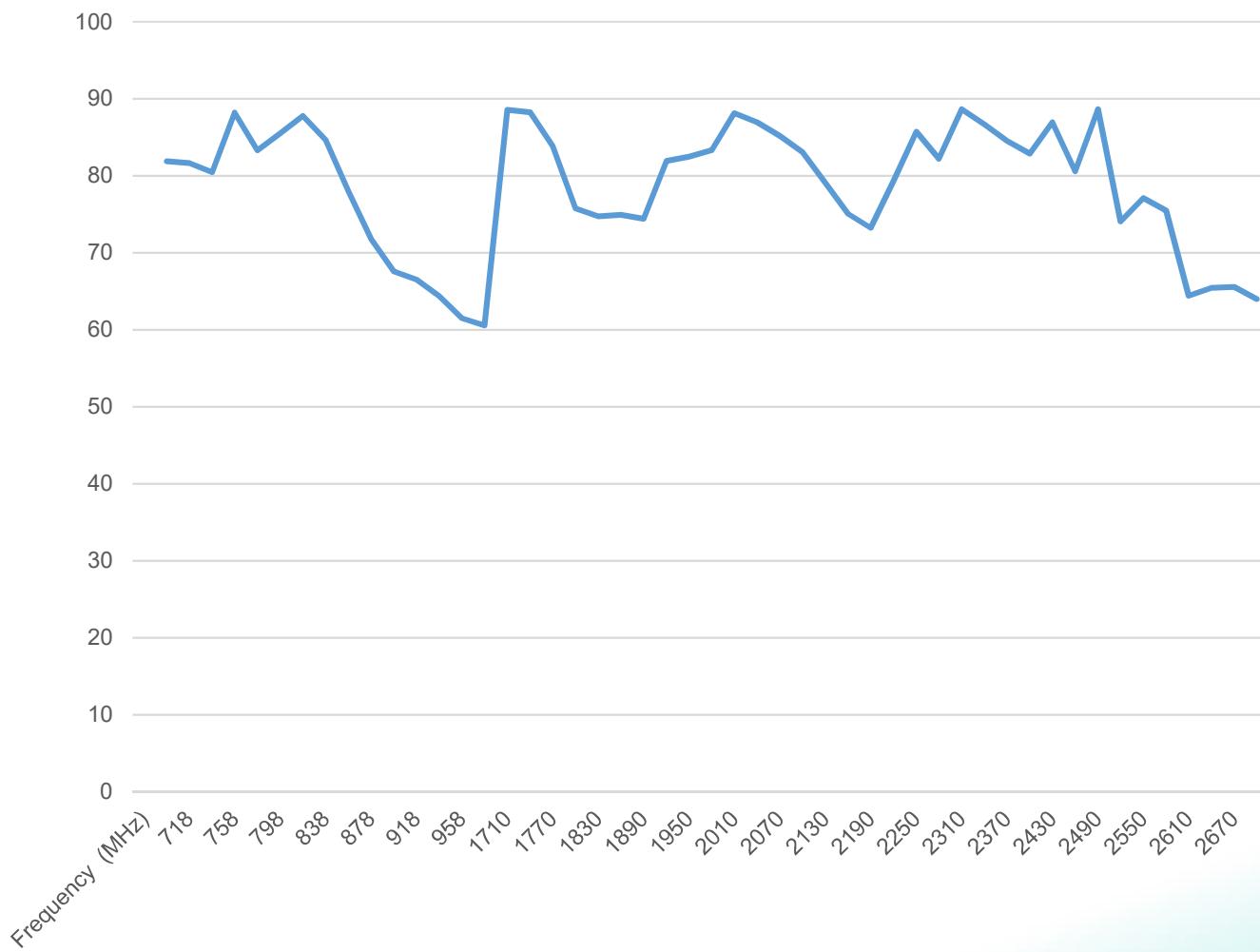
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Efficiency(%)

ICEFINLDMN  
Efficiency (%)



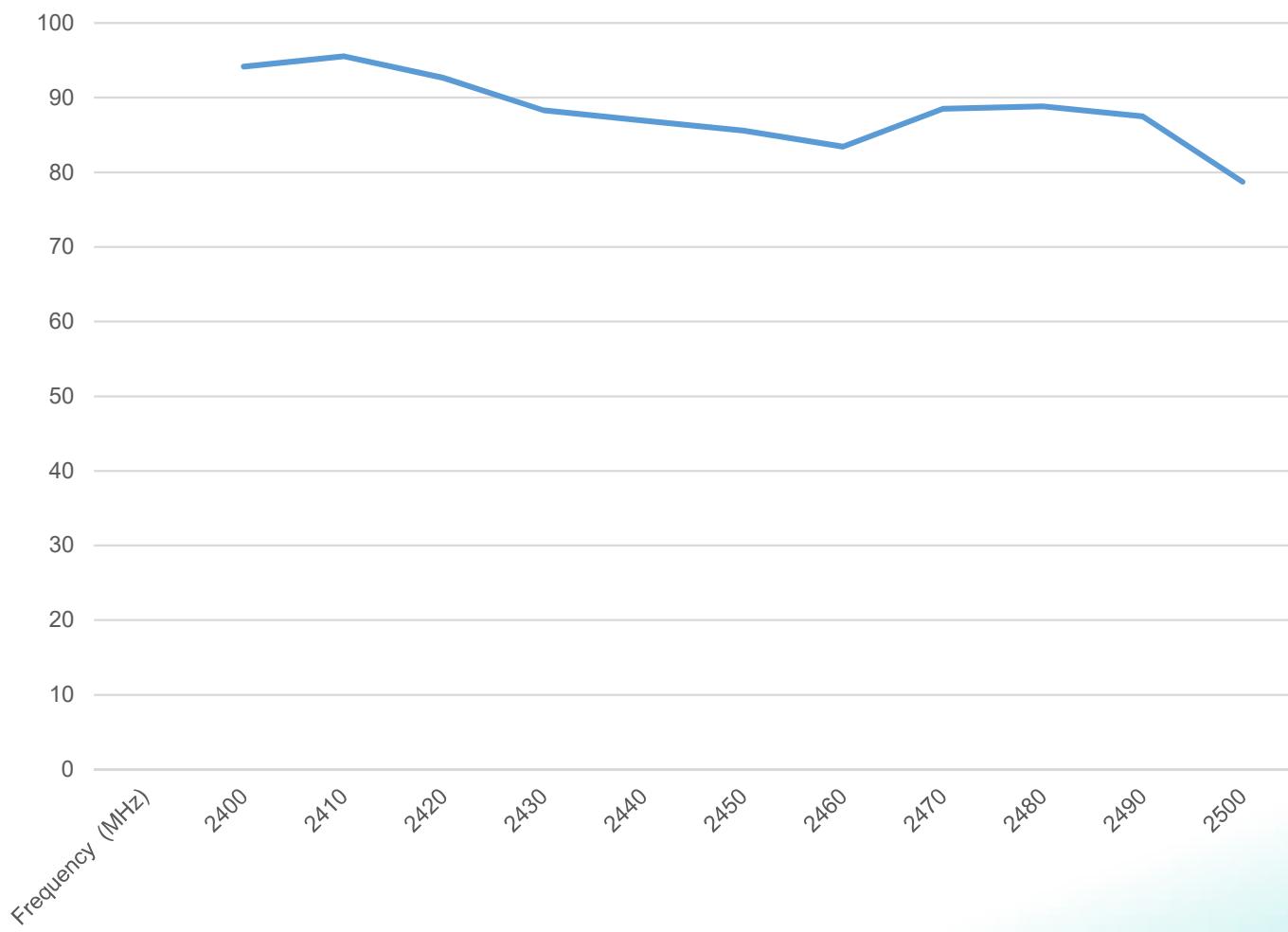
Issue: 1743

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**Series: IceFin****Description: LOW PROFILE MULTIBAND  
ANTENNA****PART NUMBER: ICEFINXXX****CHARTS****Efficiency(%)****ICEFIN24NMOHF  
Efficiency (%)****Issue: 1743**

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Description: LOW PROFILE MULTIBAND  
ANTENNA

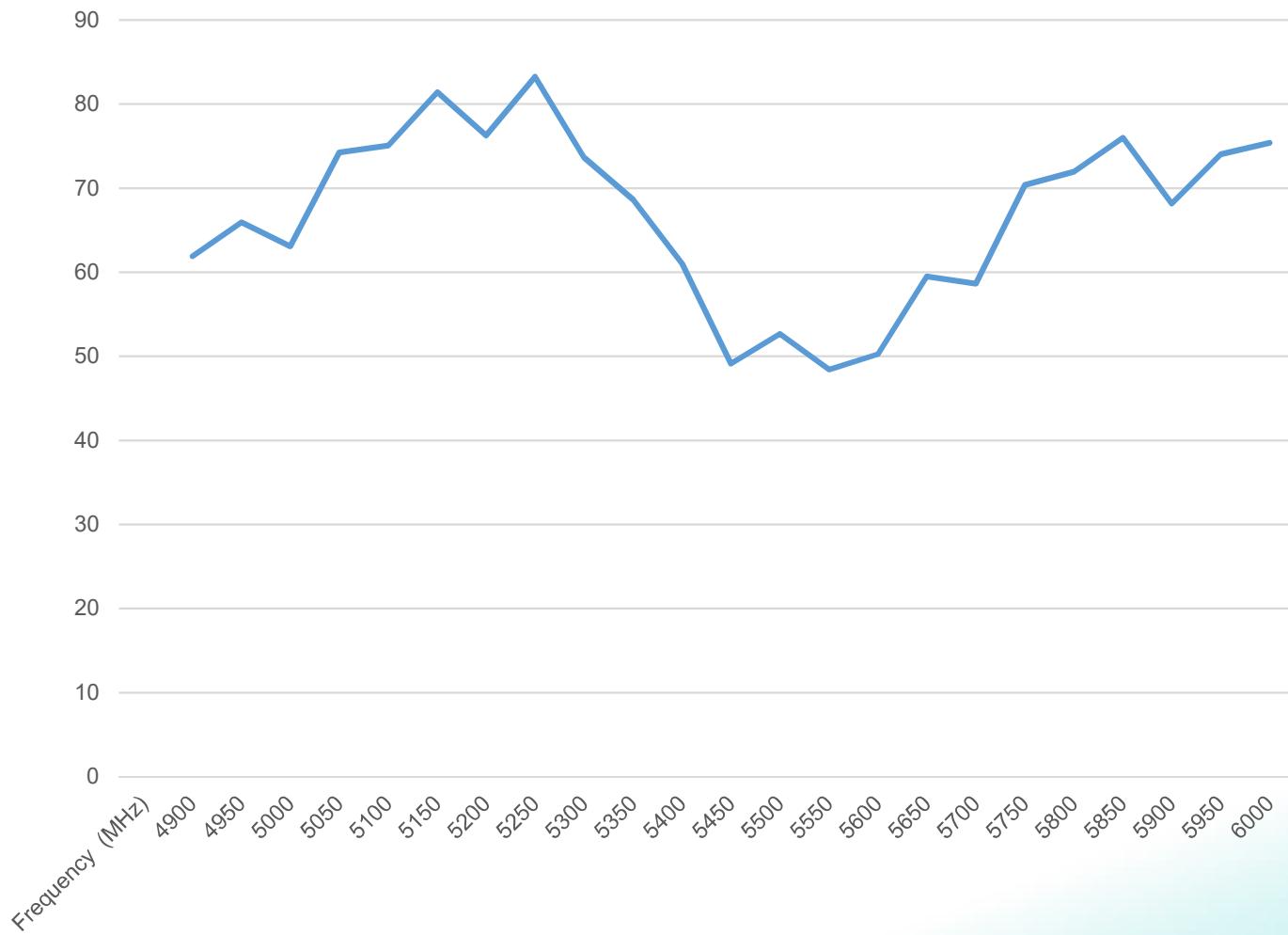
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Efficiency(%)

### ICEFIN49NMOHF Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

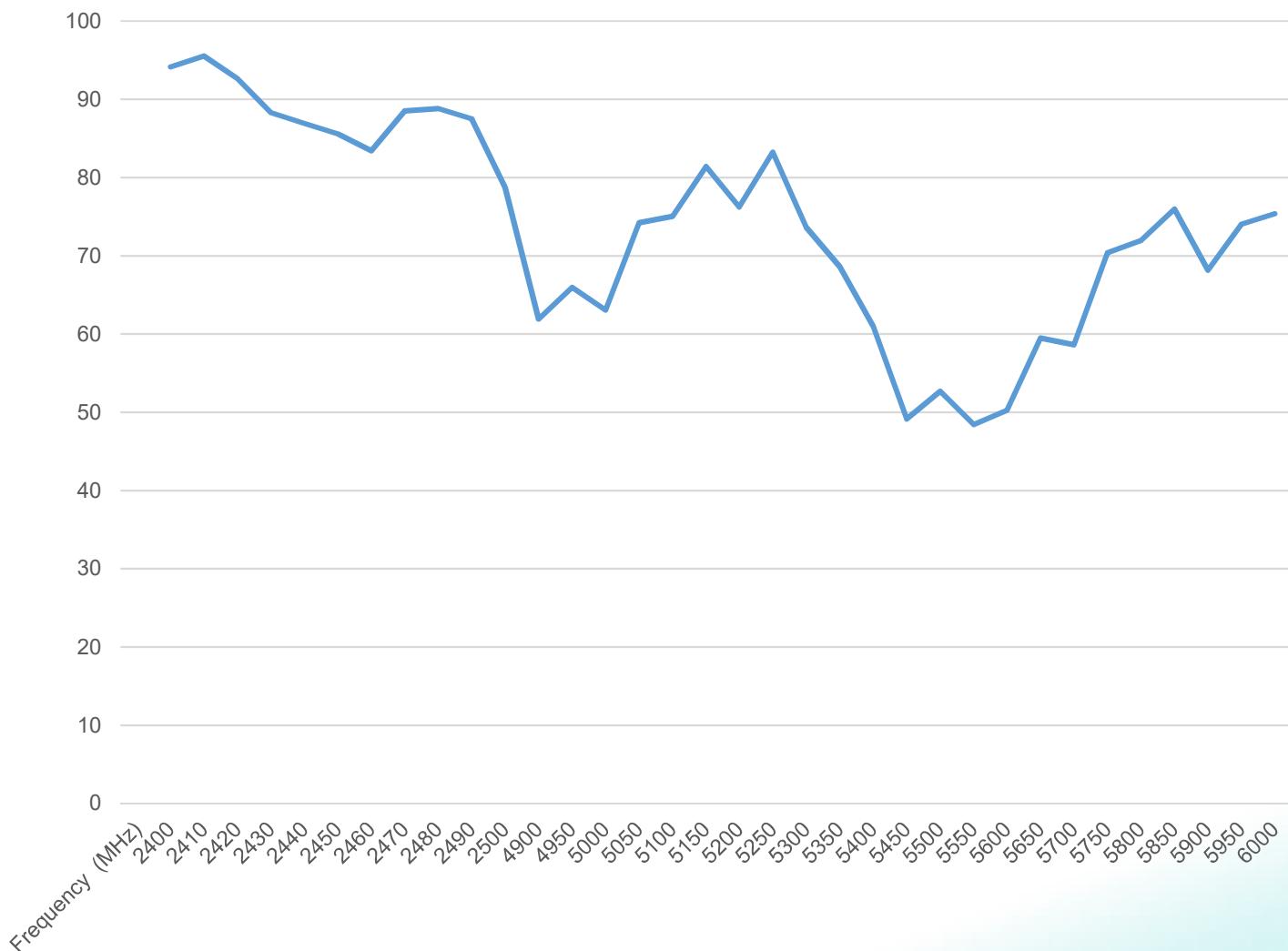
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Efficiency(%)

ICEFINWNMOHF  
Efficiency (%)



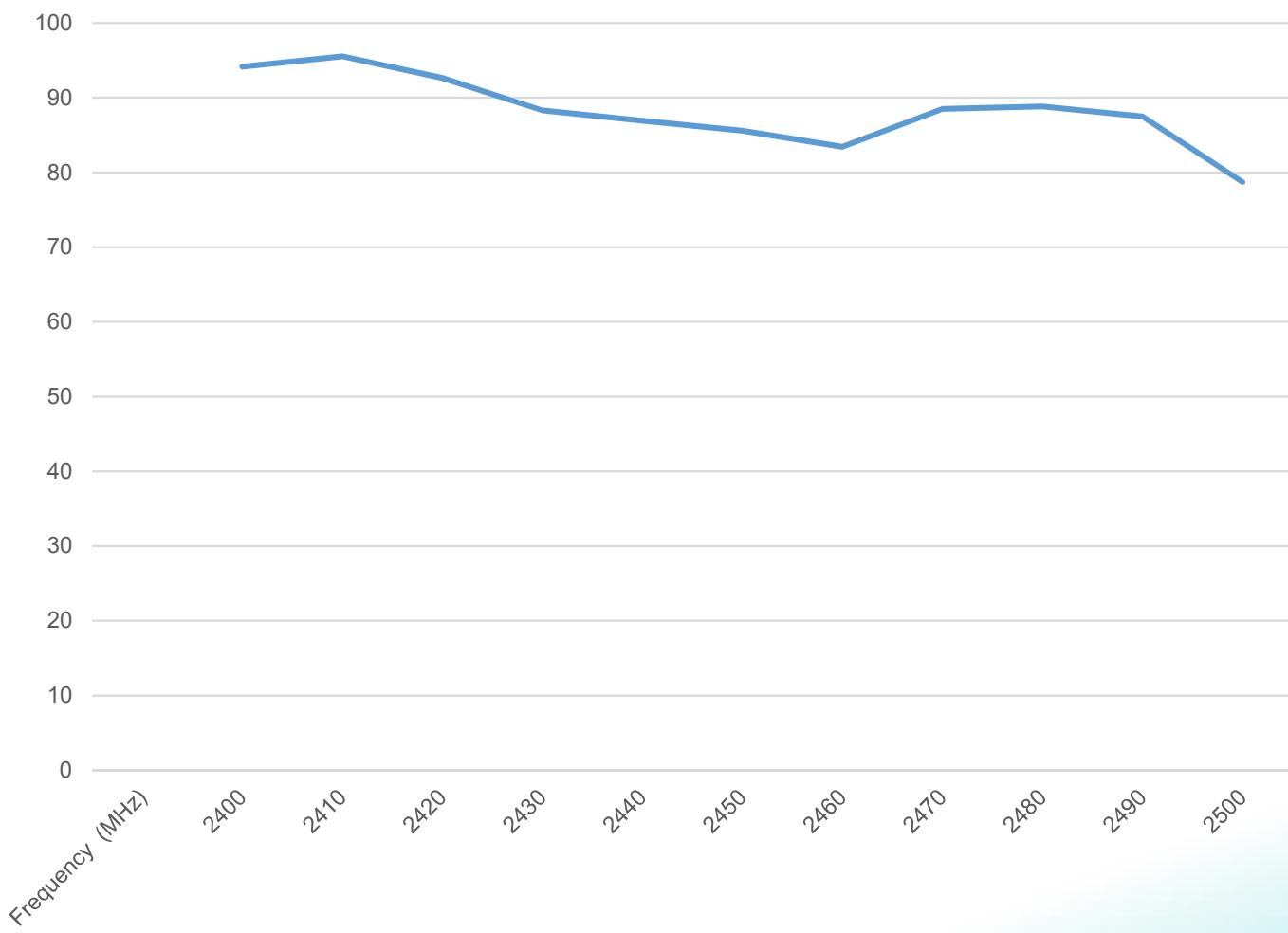
Issue: 1743

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**Series: IceFin****Description: LOW PROFILE MULTIBAND  
ANTENNA****PART NUMBER: ICEFINXXX****CHARTS****Efficiency(%)****ICEFIN24DMN  
Efficiency (%)****Issue: 1743**

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Description: LOW PROFILE MULTIBAND  
ANTENNA

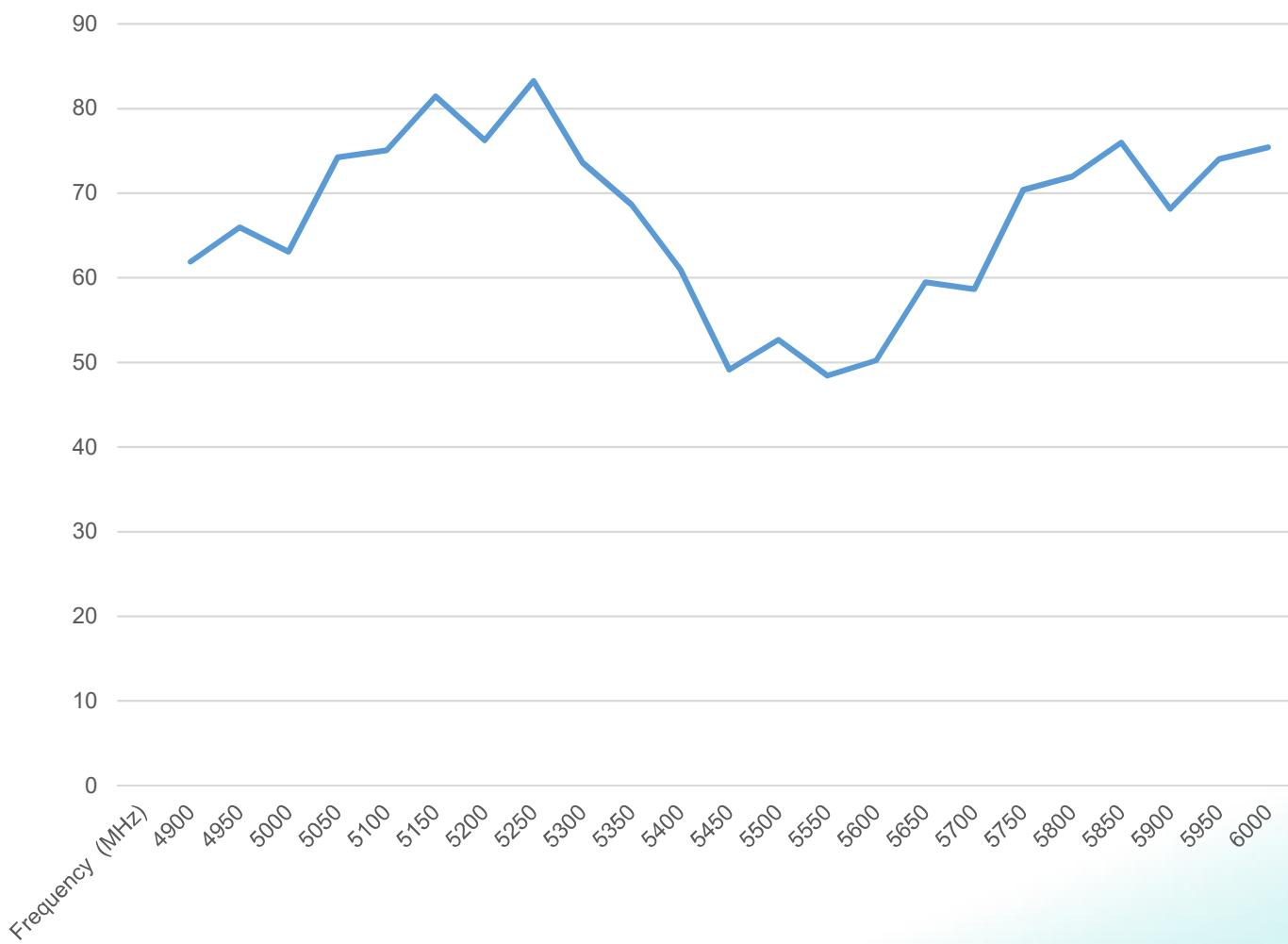
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

Efficiency(%)

ICEFIN49DMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

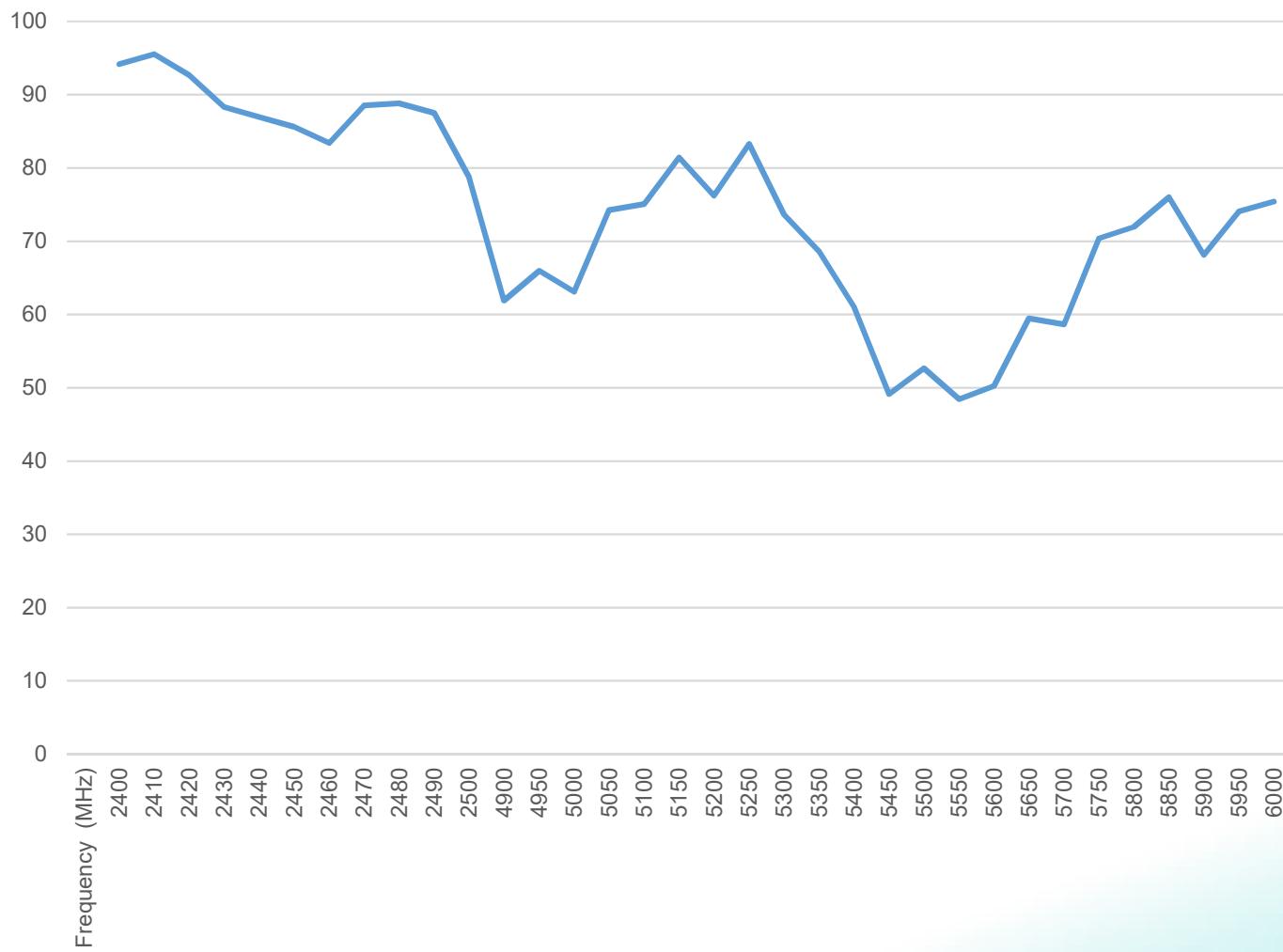
Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

Efficiency(%)

ICEFINWDMN  
Efficiency (%)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

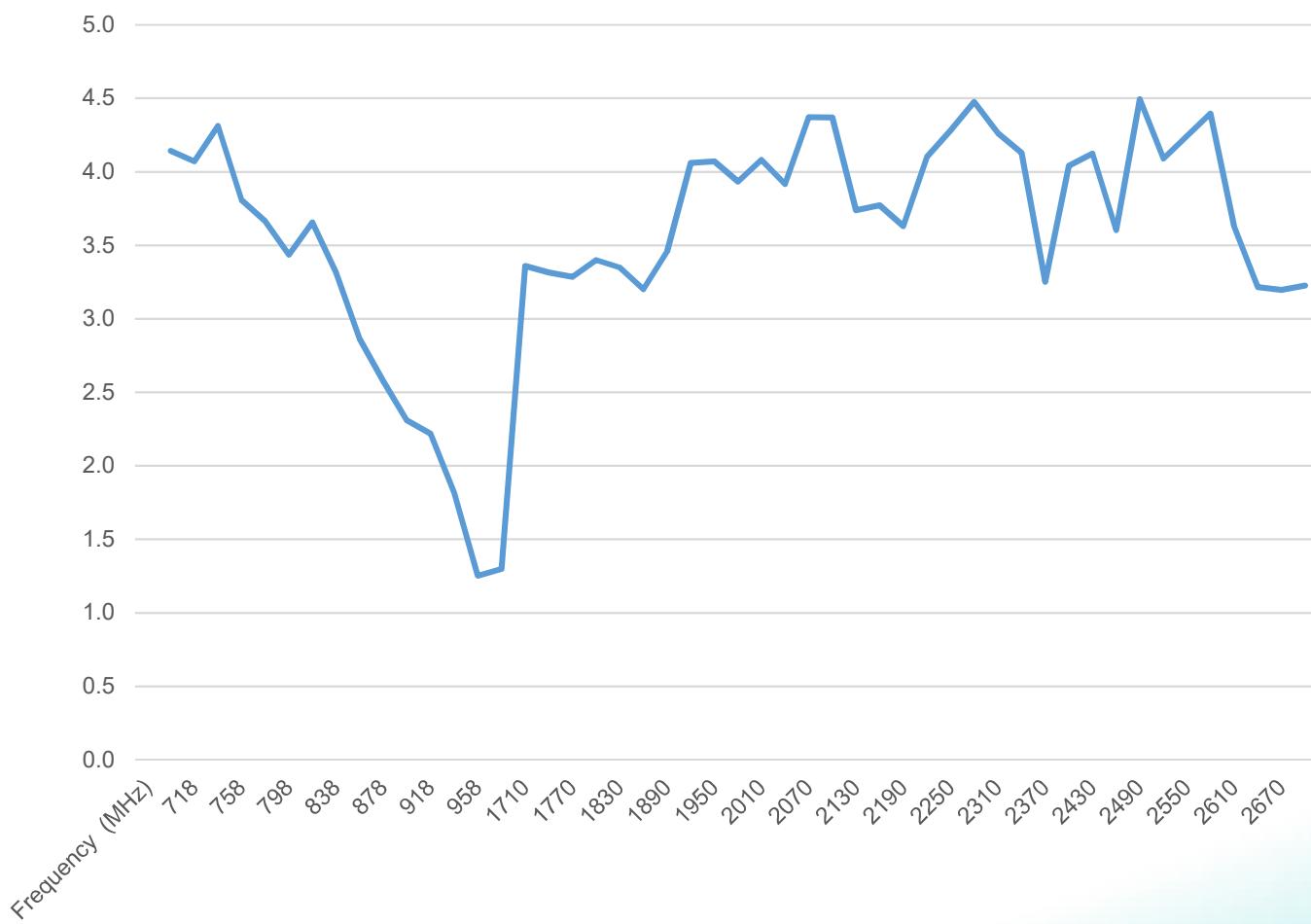
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

#### ICEFINLNMOHF Peak Gain(dBi)



Issue: 1743

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ANTENNA

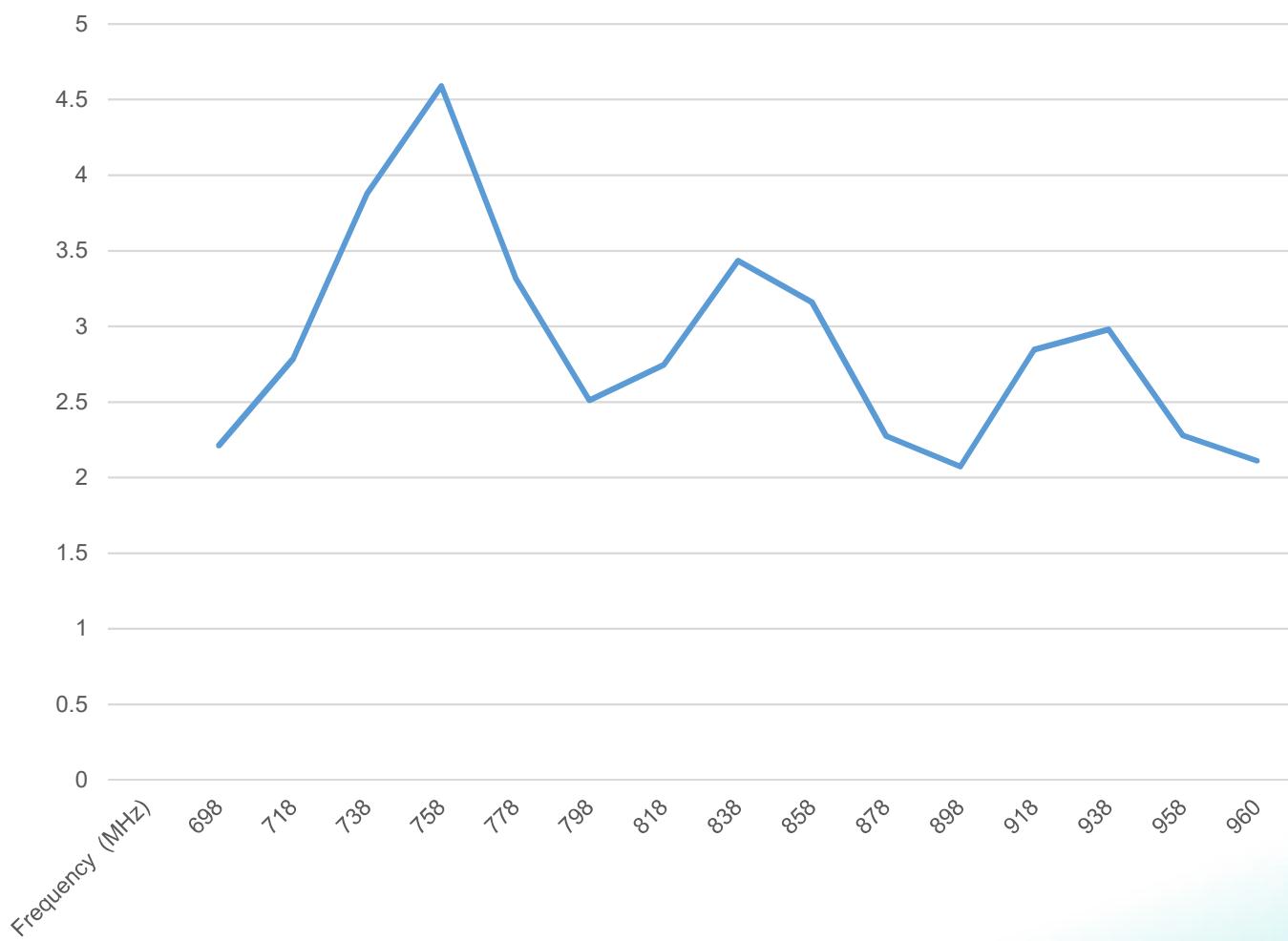
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

#### ICEFIN698/960NMO Peak Gain(dBi)



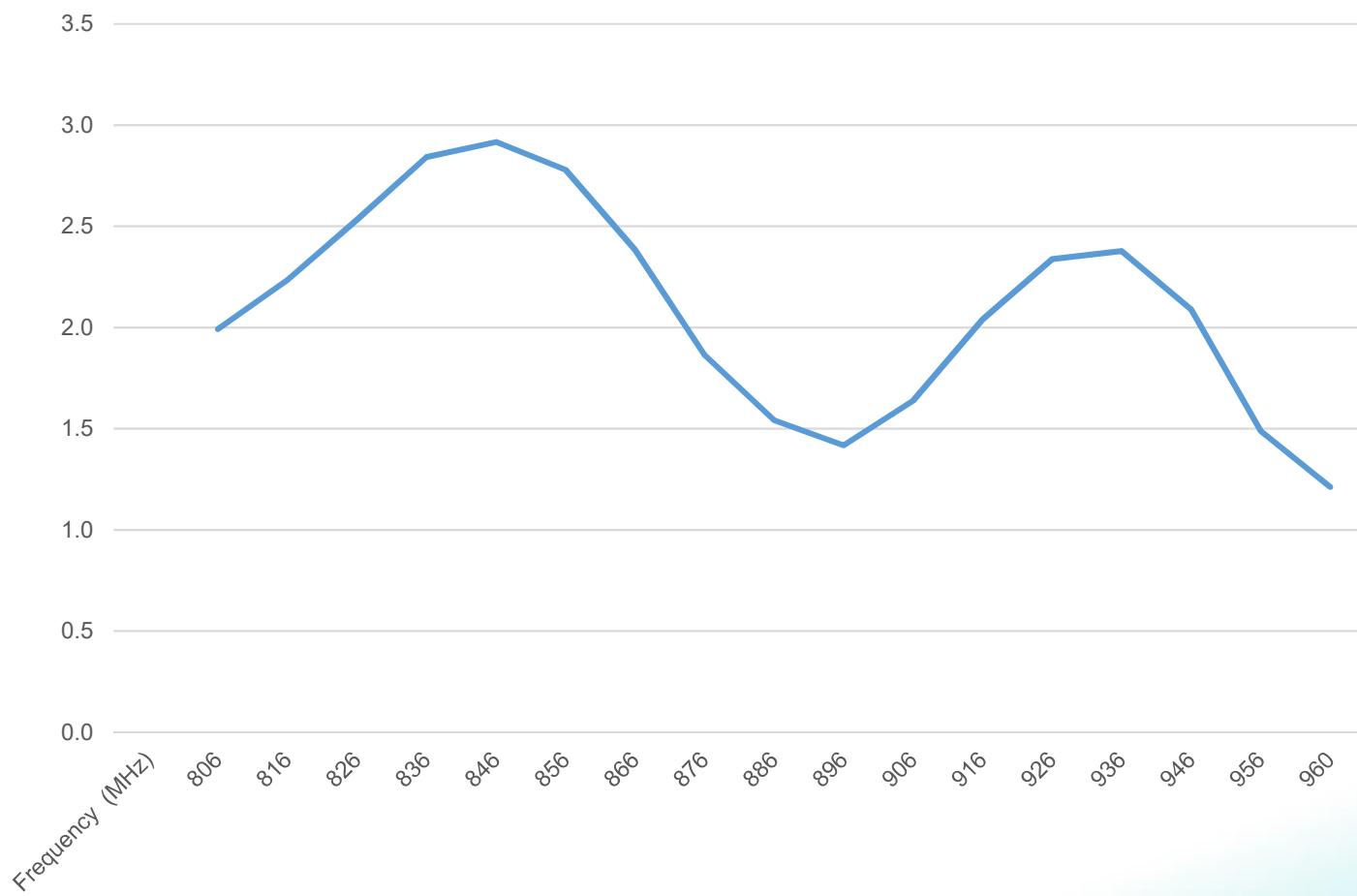
Issue: 1743

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**Series: IceFin****Description: LOW PROFILE MULTIBAND  
ANTENNA****PART NUMBER: ICEFINXXX****CHARTS****Peak Gain (dBi)****ICEFIN806NMO  
Peak Gain(dBi)****Issue: 1743**

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ANTENNA

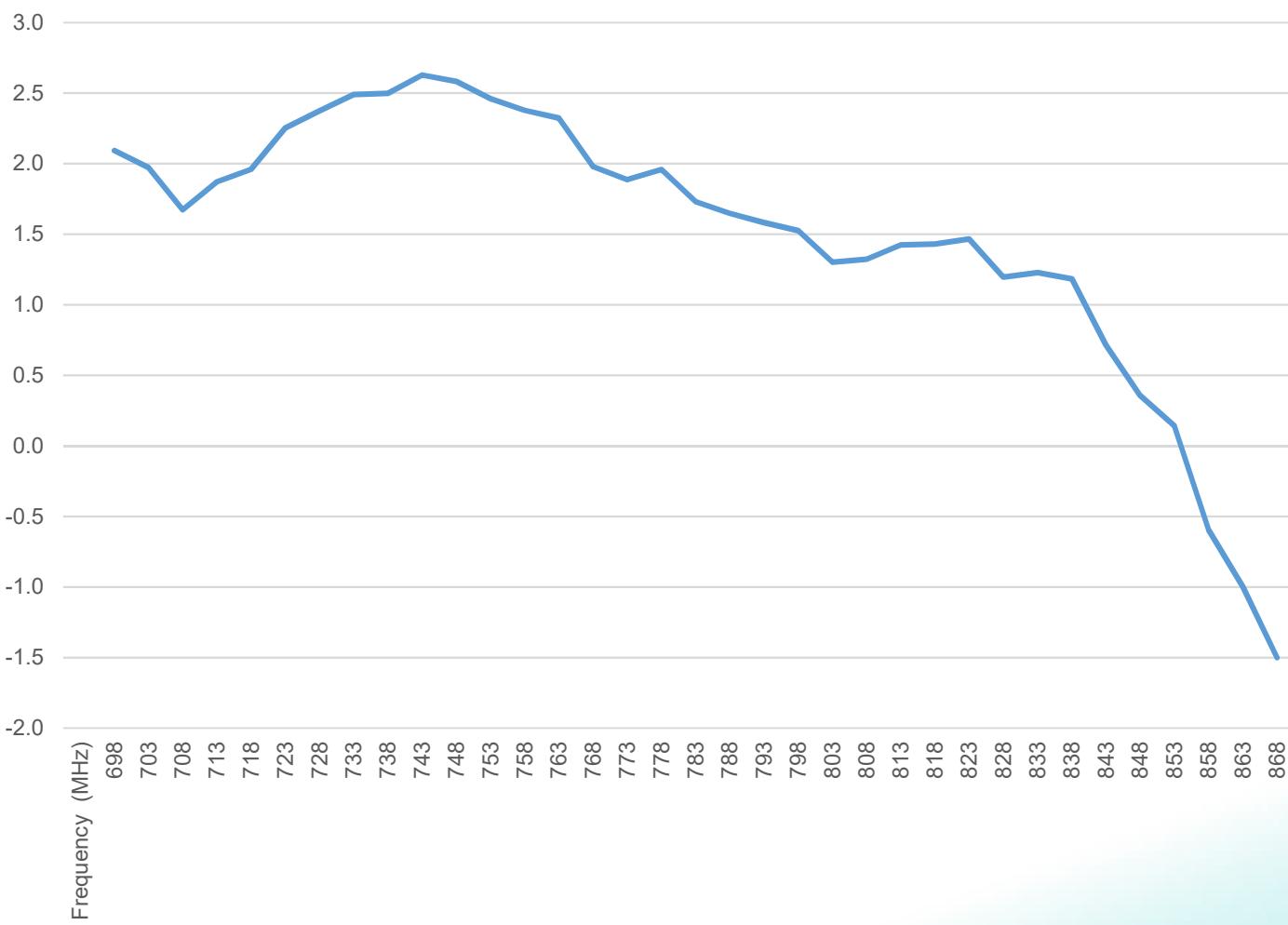
Series: IceFin

PART NUMBER: ICEFINXXX

**CHARTS**

**Peak Gain (dBi)**

**ICEFIN698/869DMN**  
**Peak Gain(dBi)**



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

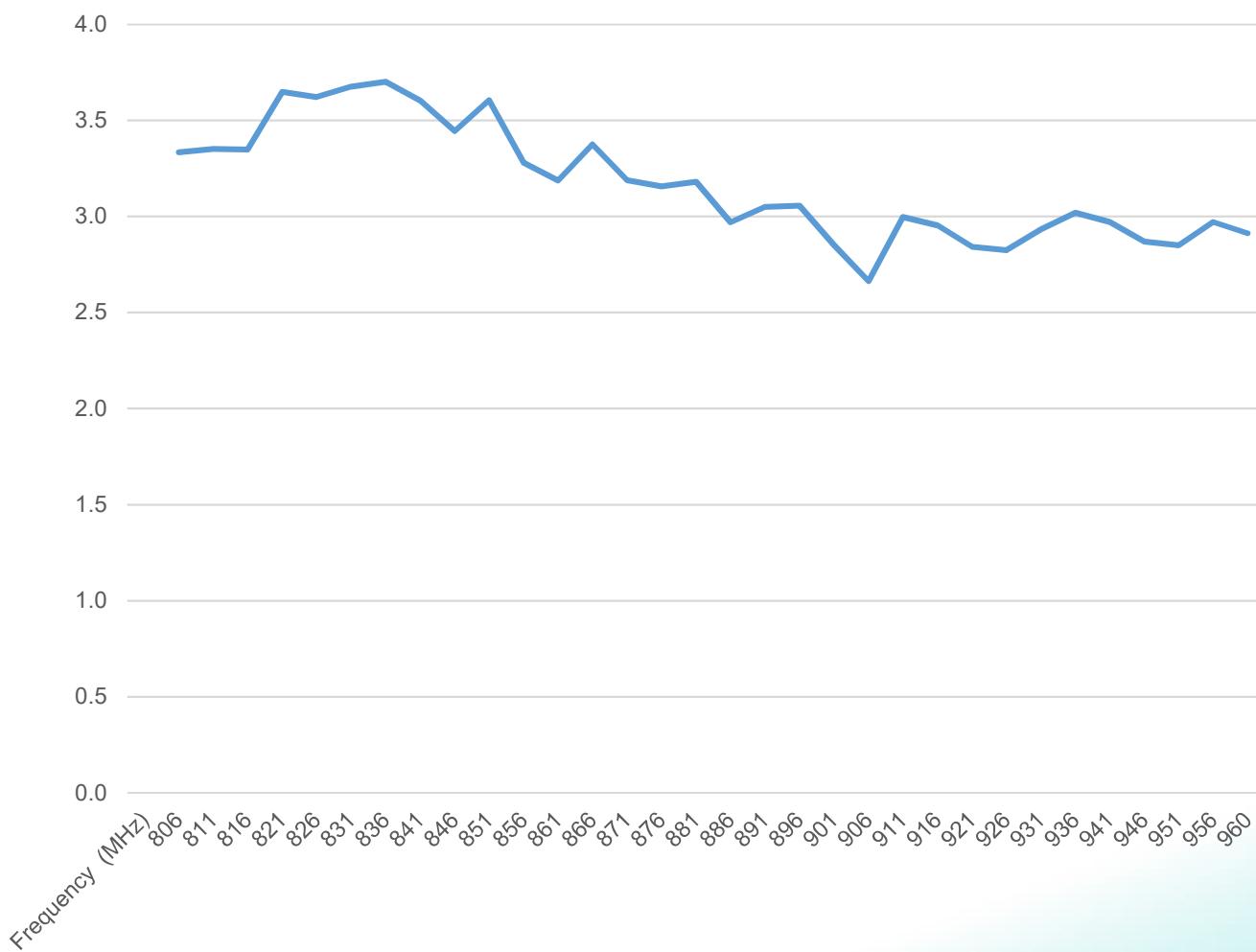
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

#### ICEFIN806DMN Peak Gain(dBi)



Issue: 1743

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ANTENNA

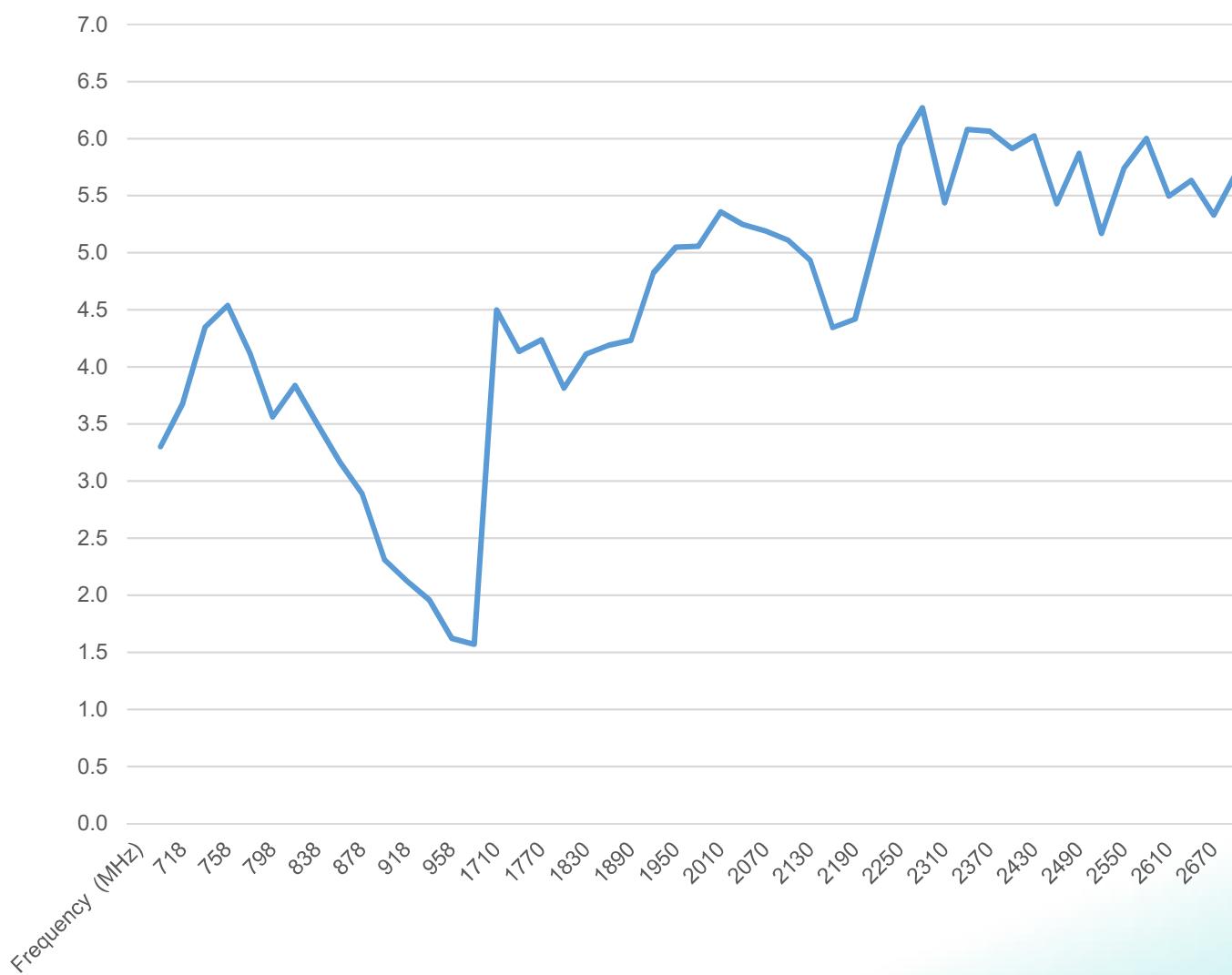
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFINLDMN  
Peak Gain(dBi)



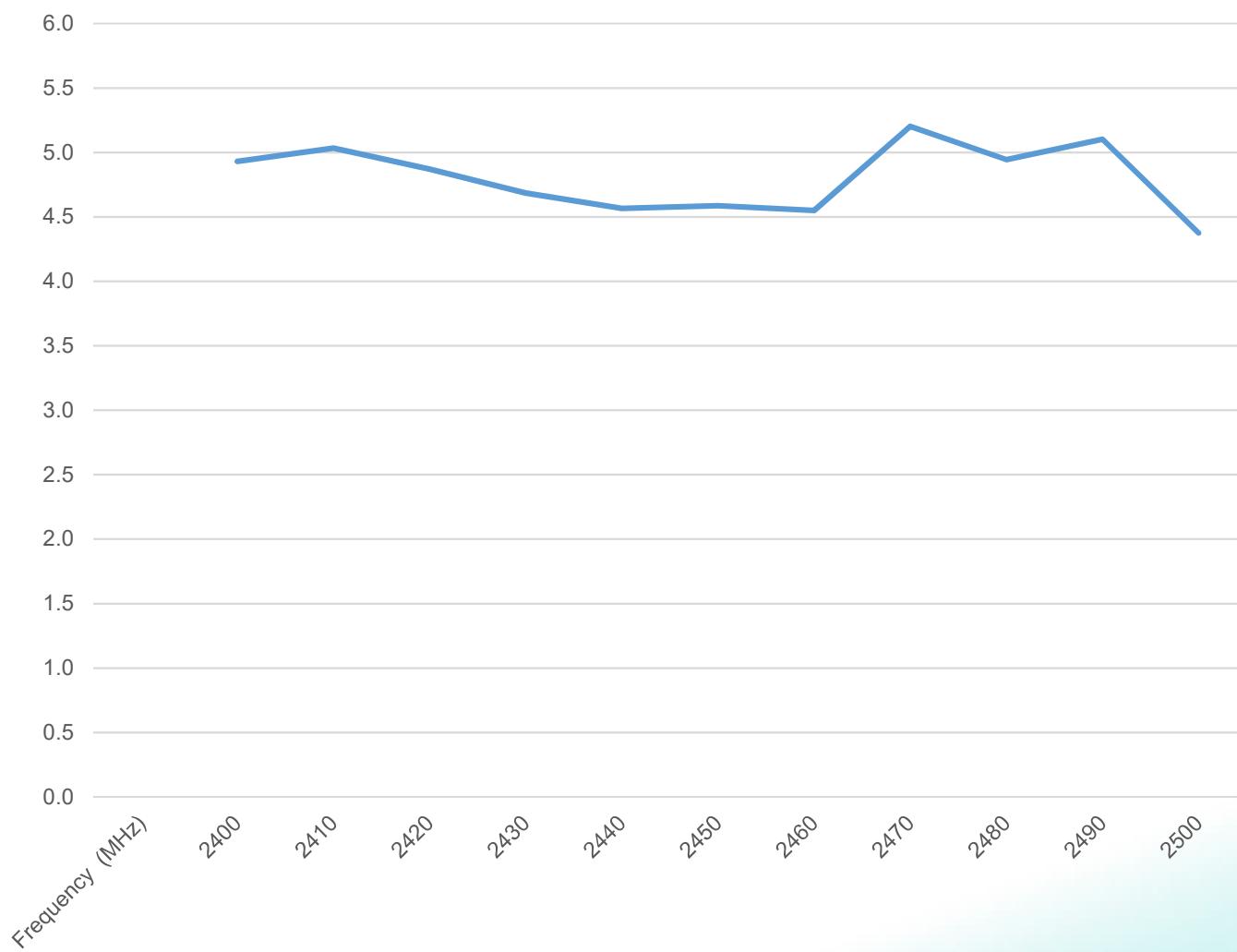
Issue: 1743

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**Series: IceFin****Description: LOW PROFILE MULTIBAND  
ANTENNA****PART NUMBER: ICEFINXXX****CHARTS****Peak Gain (dBi)****ICEFIN24NMOHF  
Peak Gain(dBi)****Issue: 1743**

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Description: LOW PROFILE MULTIBAND  
ANTENNA

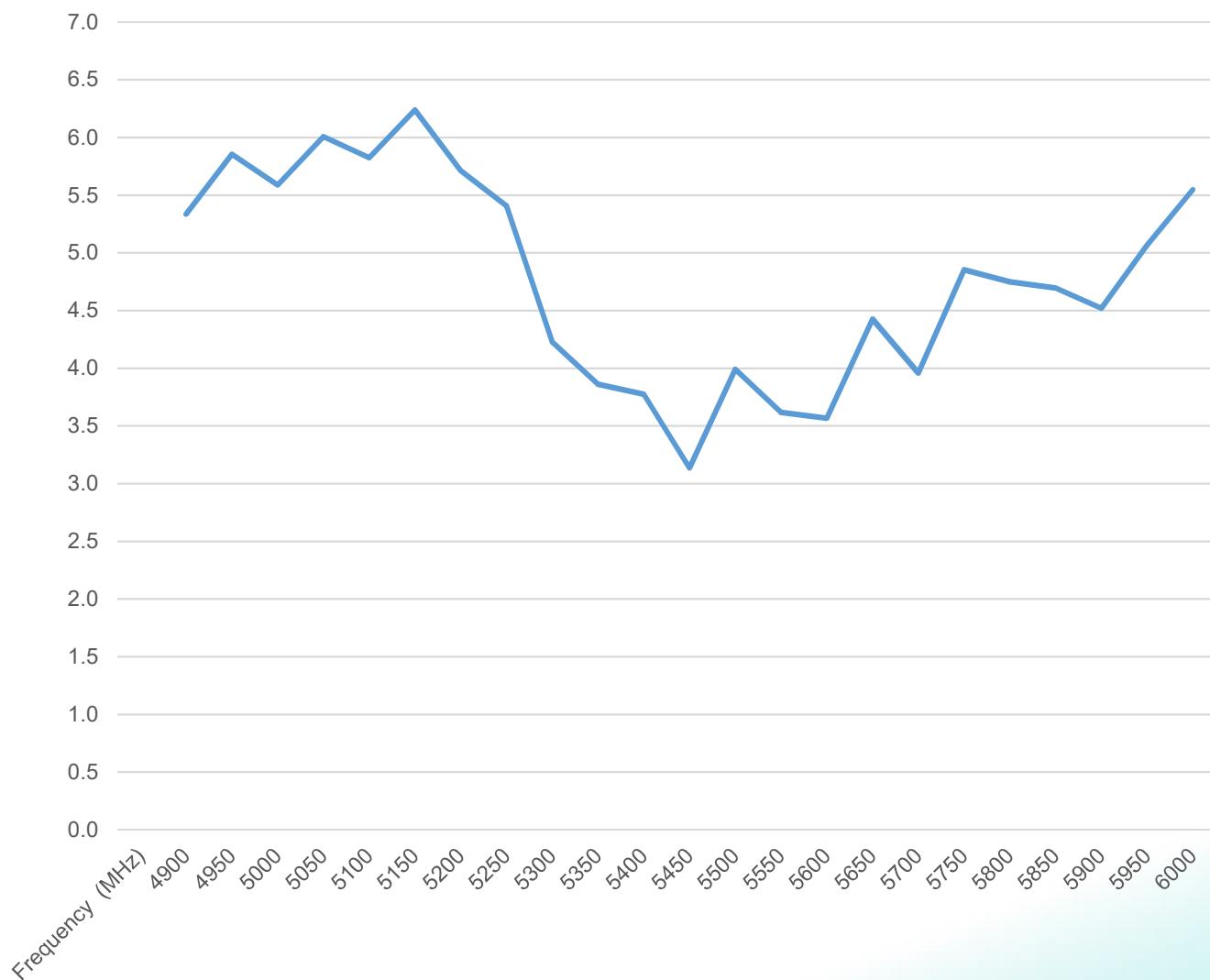
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

#### ICEFIN49NMOHF Peak Gain(dBi)



Issue: 1743

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ANTENNA

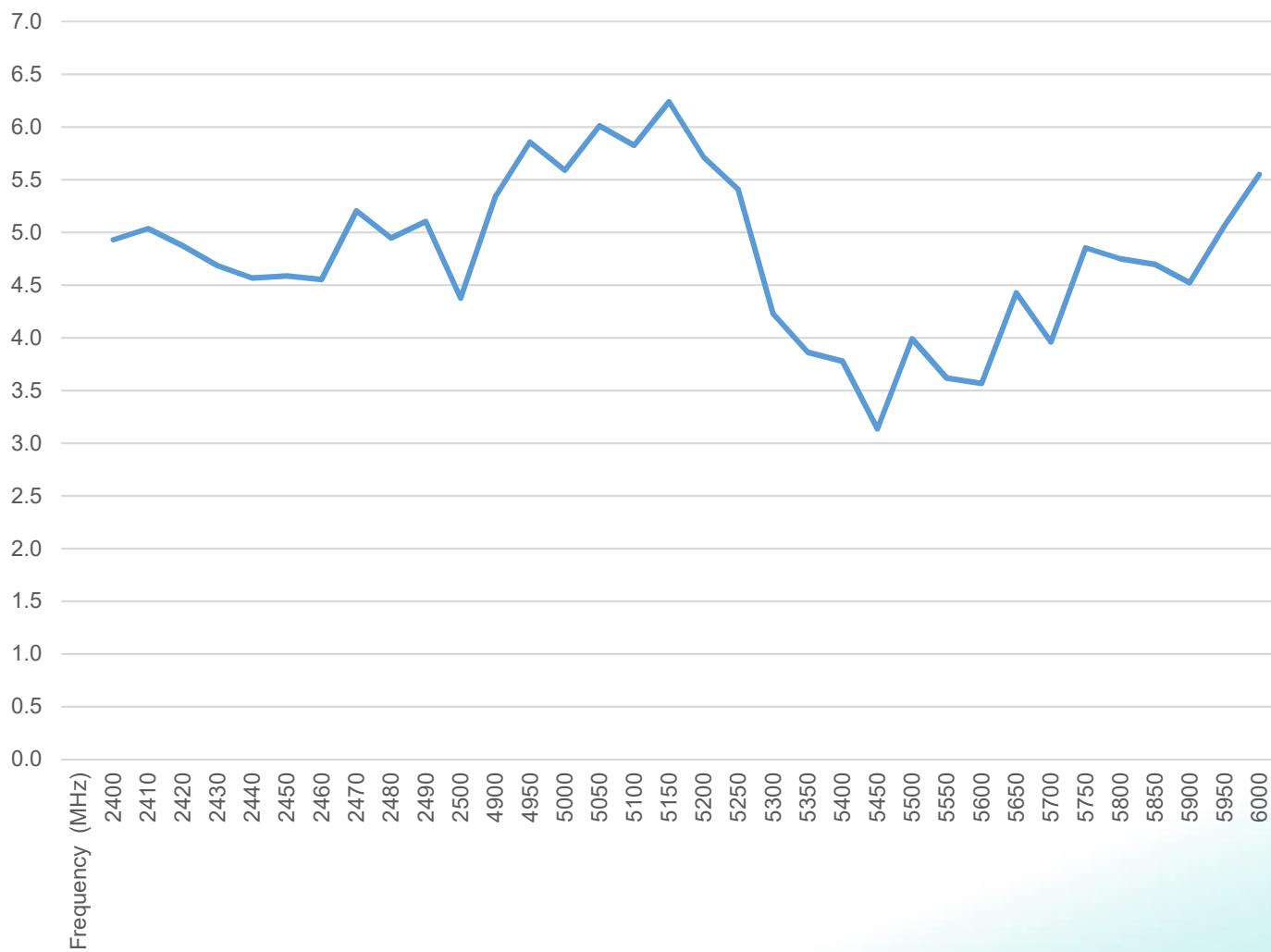
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

#### ICEFINWNMOHF Peak Gain(dBi)



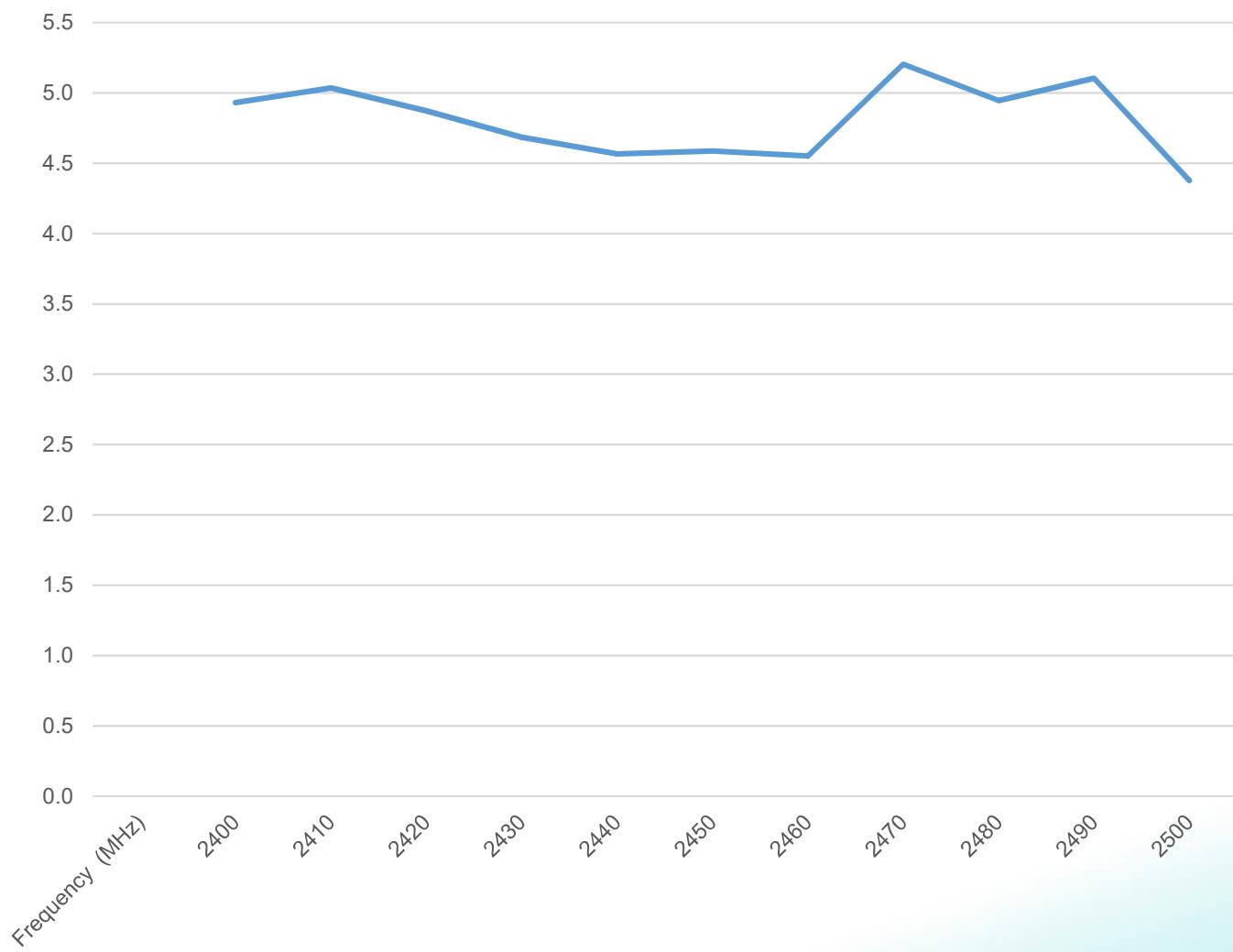
Issue: 1743

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**Series: IceFin****Description: LOW PROFILE MULTIBAND  
ANTENNA****PART NUMBER: ICEFINXXX****CHARTS****Peak Gain (dBi)****ICEFIN24DMN  
Peak Gain(dBi)****Issue: 1743**

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Description: LOW PROFILE MULTIBAND  
ANTENNA

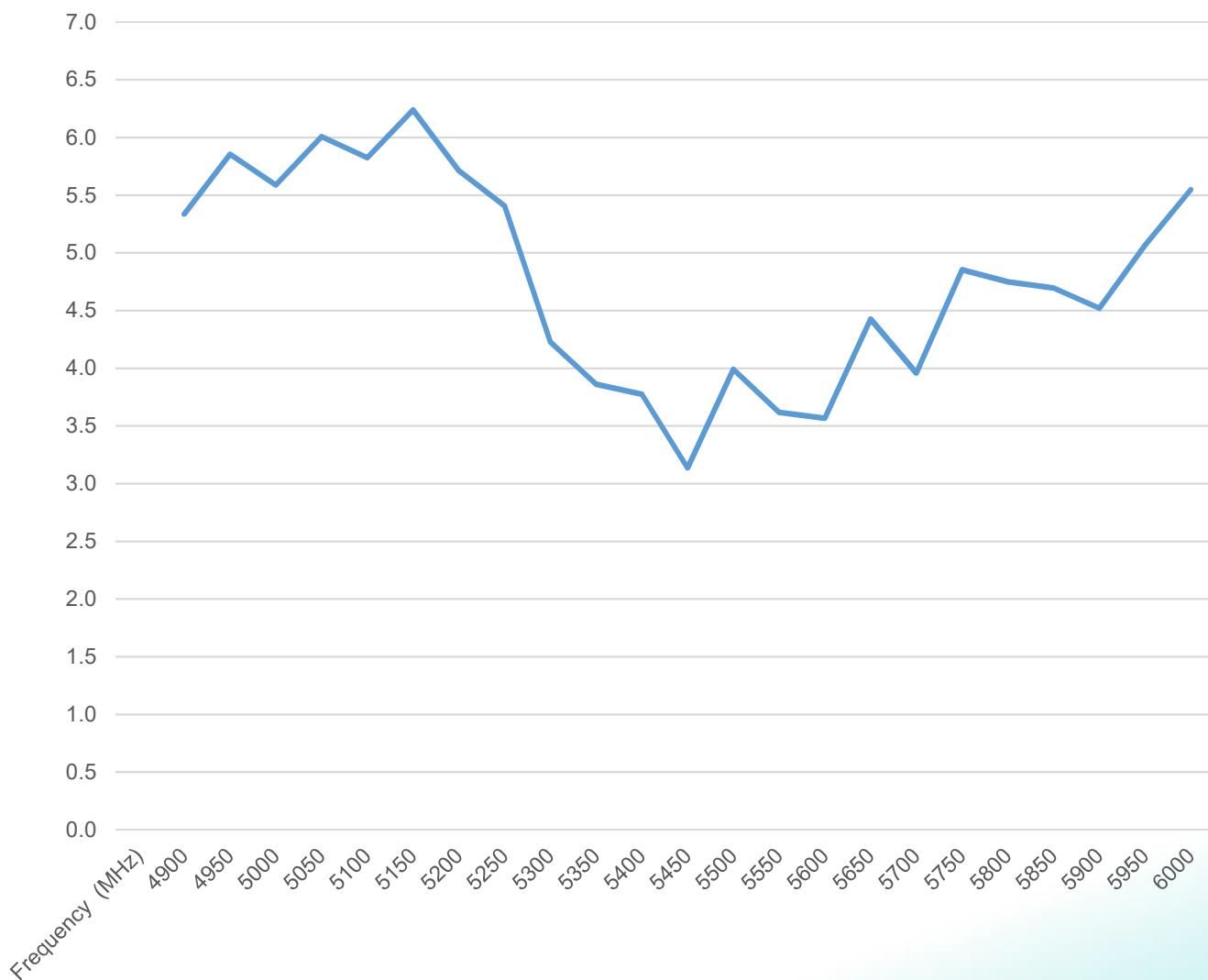
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

ICEFIN49DMN  
Peak Gain(dBi)



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

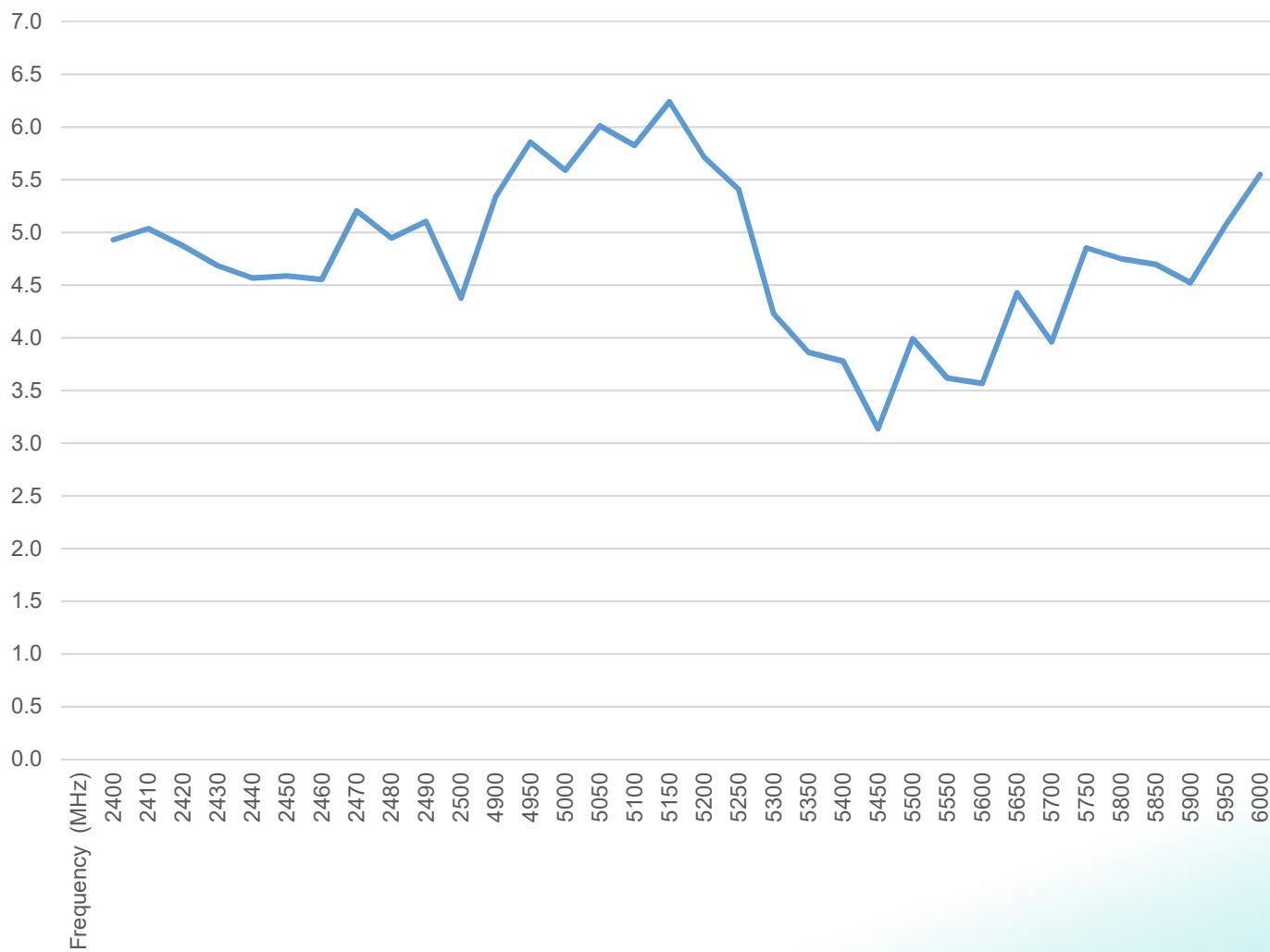
Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

### Peak Gain (dBi)

#### ICEFINWDMN Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

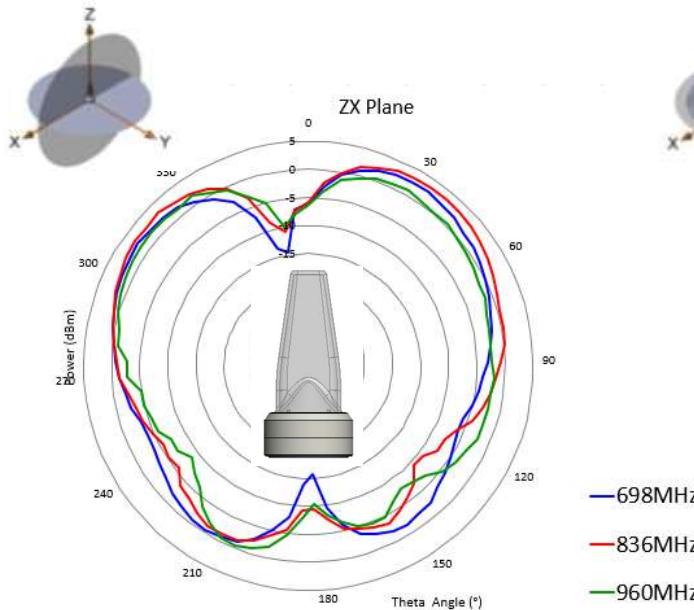
PART NUMBER: ICEFINXXX

## CHARTS

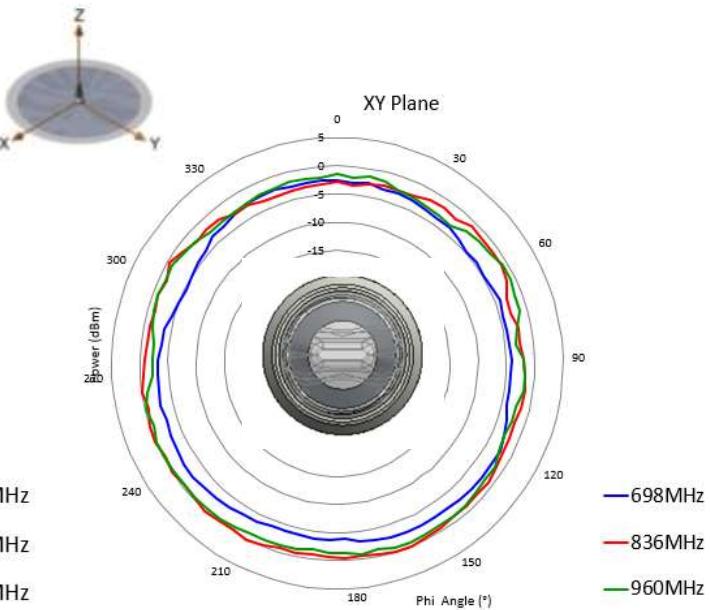
### Free Space Radiation Pattern

ICEFINLNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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ANTENNA

Series: IceFin

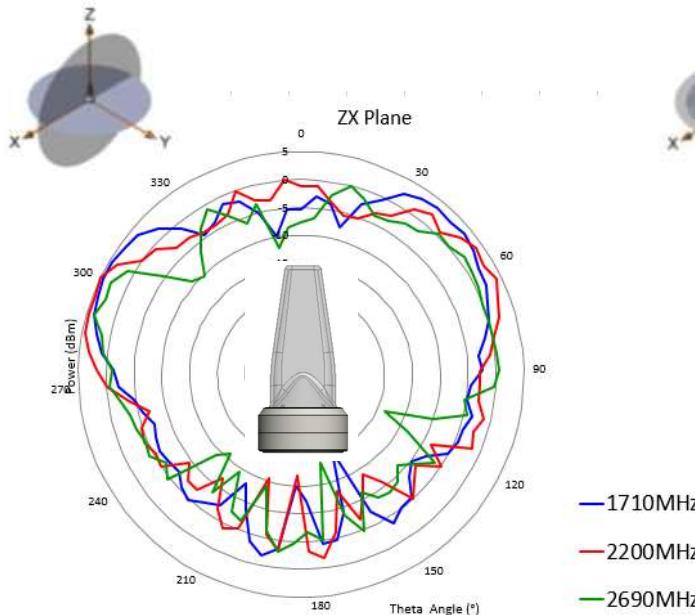
PART NUMBER: ICEFINXXX

## CHARTS

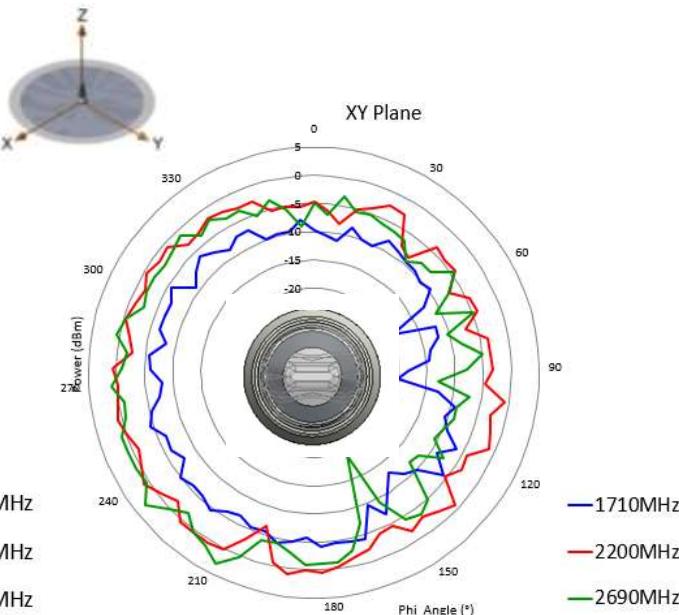
### Free Space Radiation Pattern

ICEFINLNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

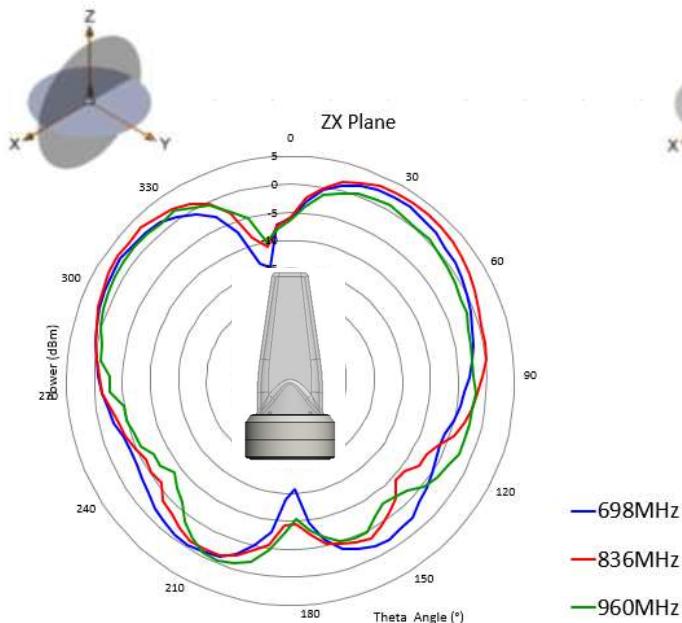
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## CHARTS

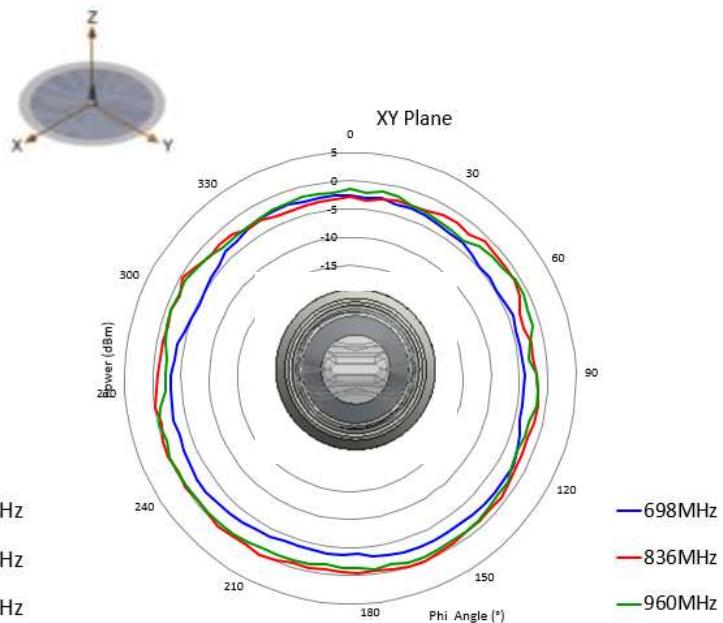
### Free Space Radiation Pattern

ICEFIN698/960NMO

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

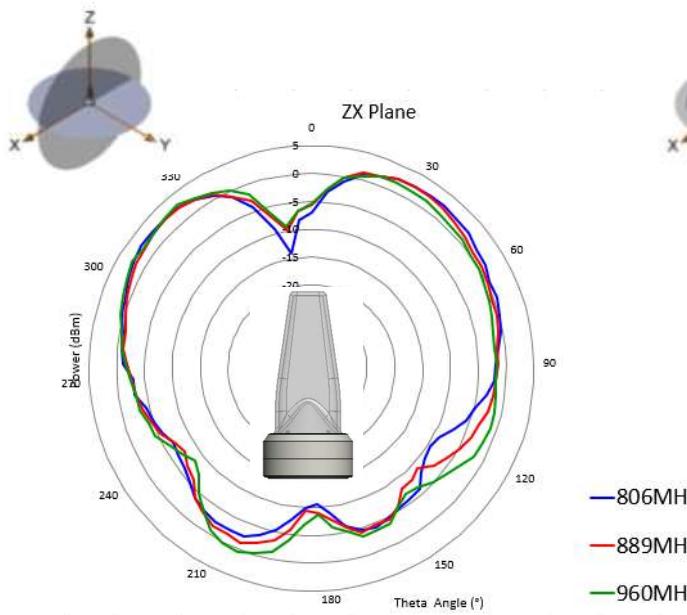
PART NUMBER: ICEFINXXX

## CHARTS

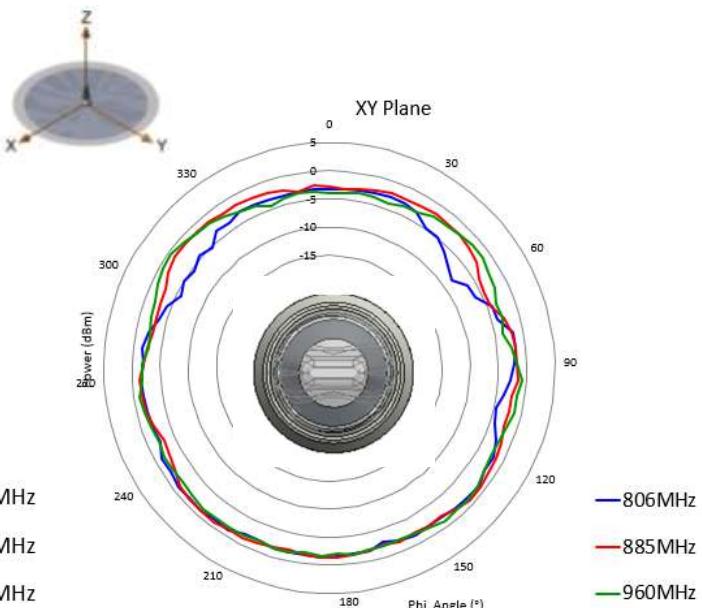
### Free Space Radiation Pattern

ICEFIN806NMO

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

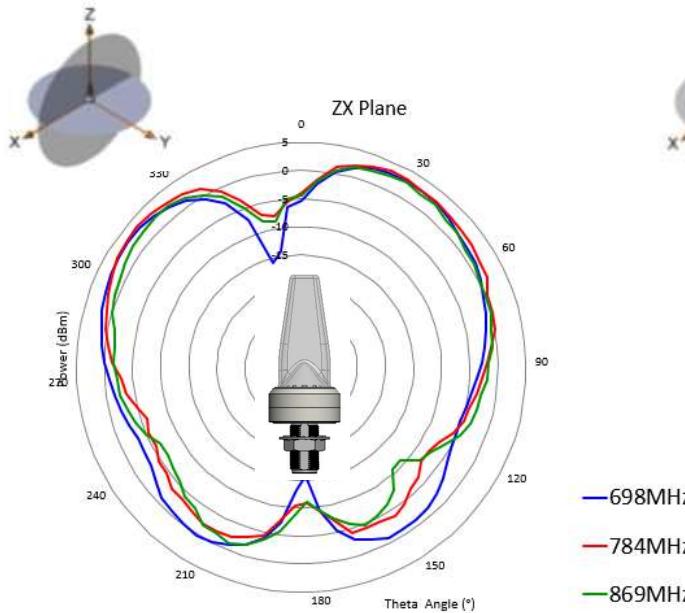
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CHARTS

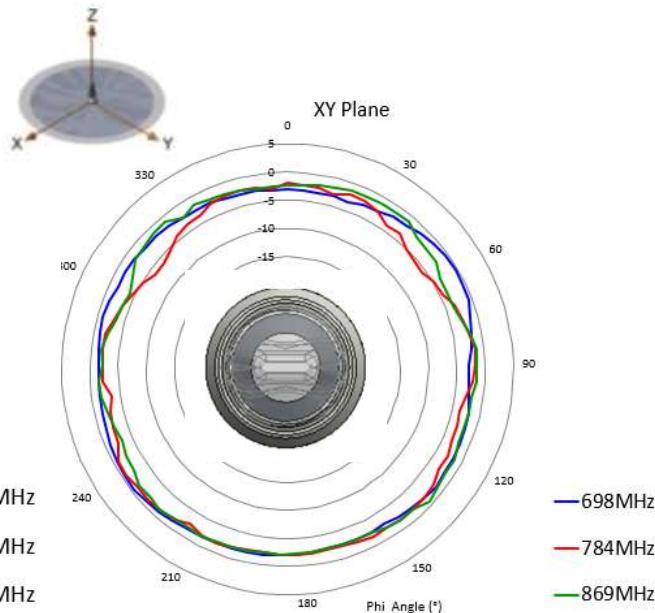
Free Space Radiation Pattern

ICEFIN698/869DMN

Elevation Plane



Horizontal Plane



Issue: 1743

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ANTENNA

Series: IceFin

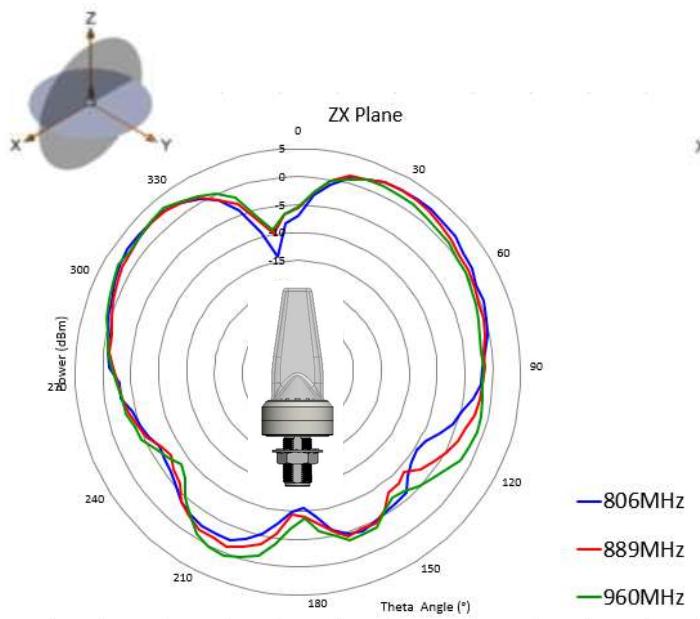
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CHARTS

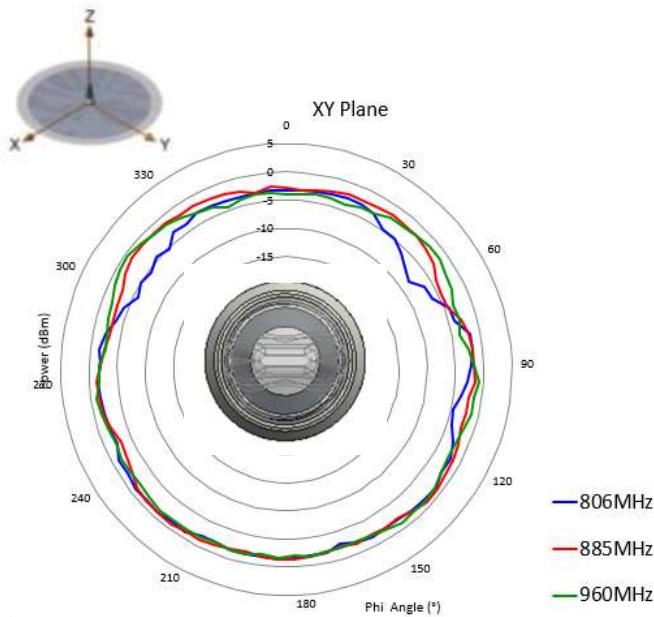
Free Space Radiation Pattern

ICEFIN806DMN

Elevation Plane



Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

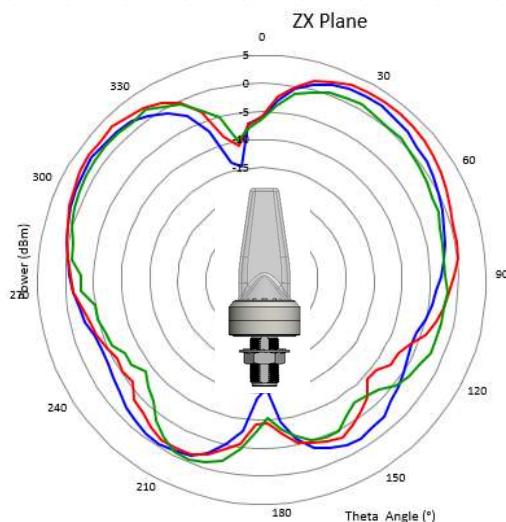
PART NUMBER: ICEFINXXX

## CHARTS

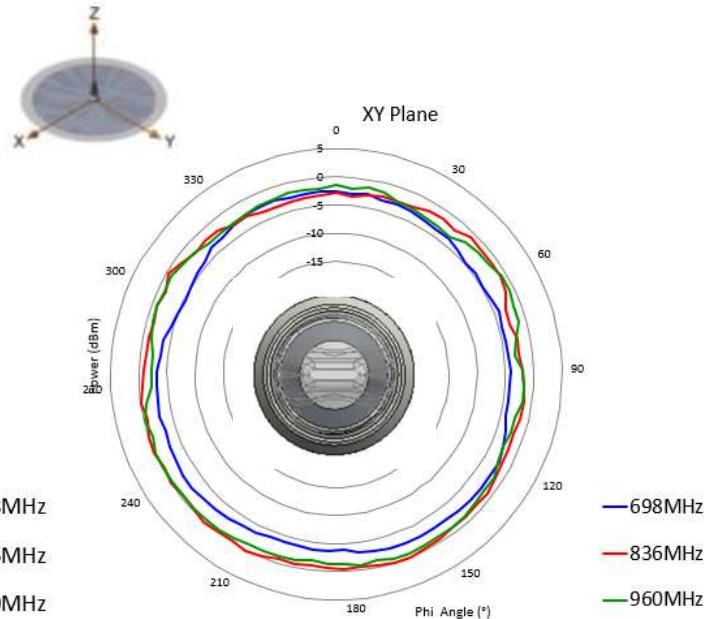
### Free Space Radiation Pattern

ICEFINLDMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

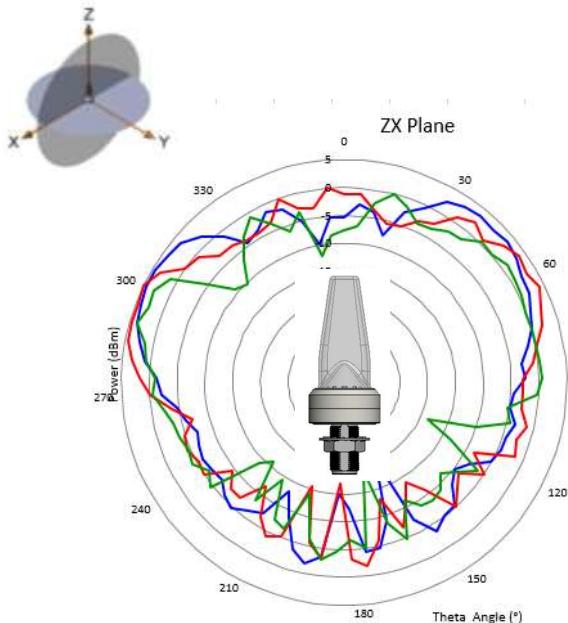
PART NUMBER: ICEFINXXX

## CHARTS

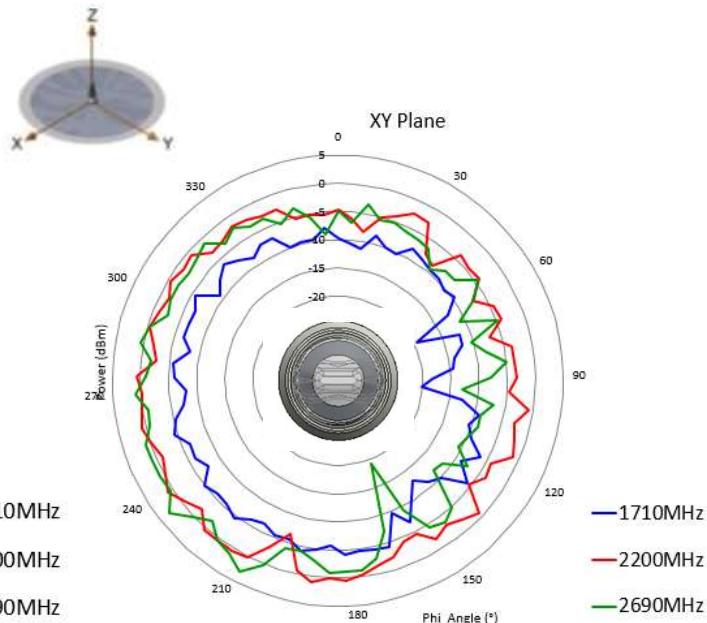
### Free Space Radiation Pattern

ICEFINLDMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

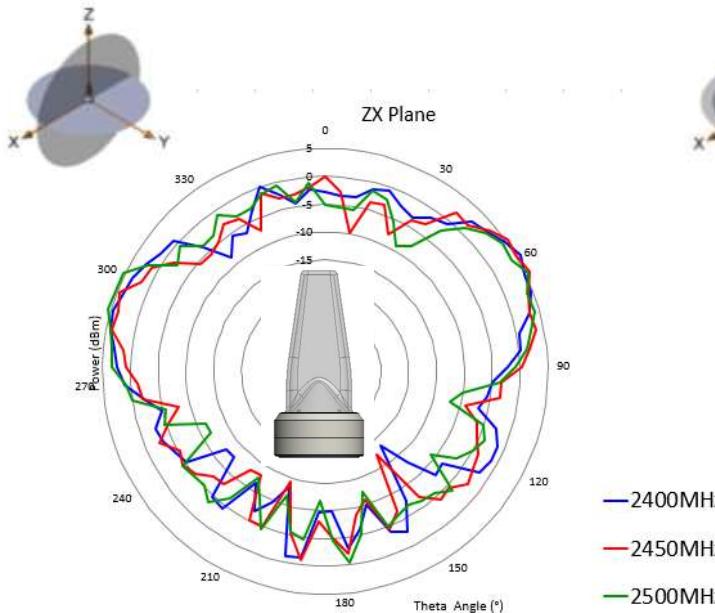
PART NUMBER: ICEFINXXX

CHARTS

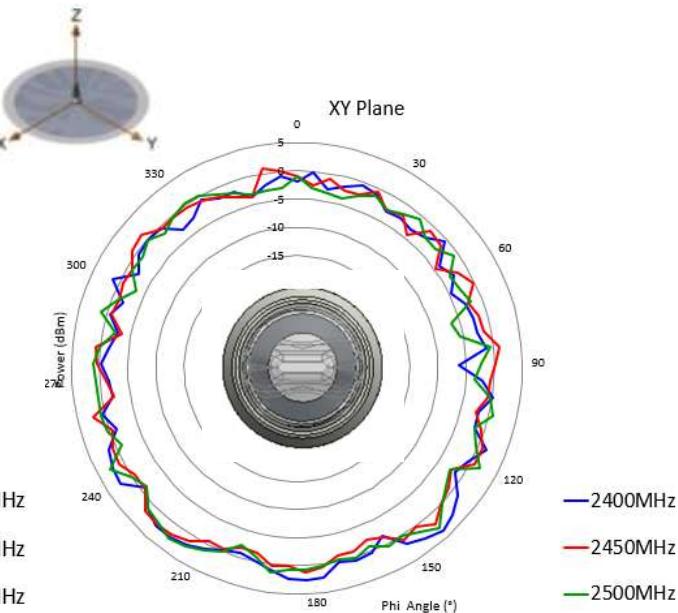
Free Space Radiation Pattern

ICEFIN24NMOHF

Elevation Plane



Horizontal Plane



Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

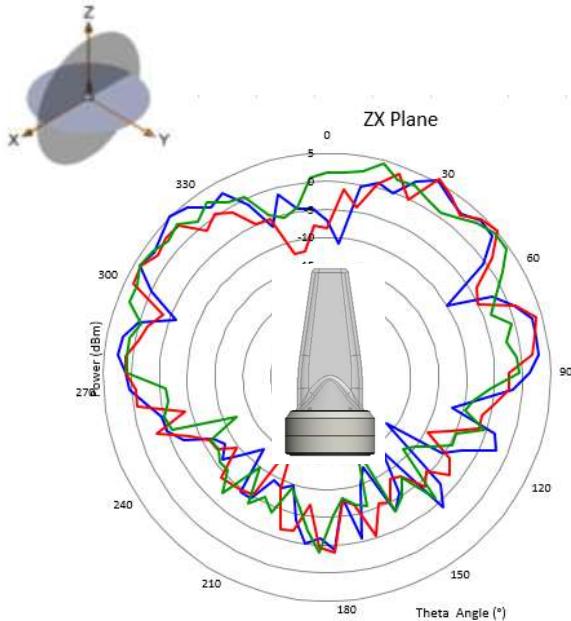
PART NUMBER: ICEFINXXX

CHARTS

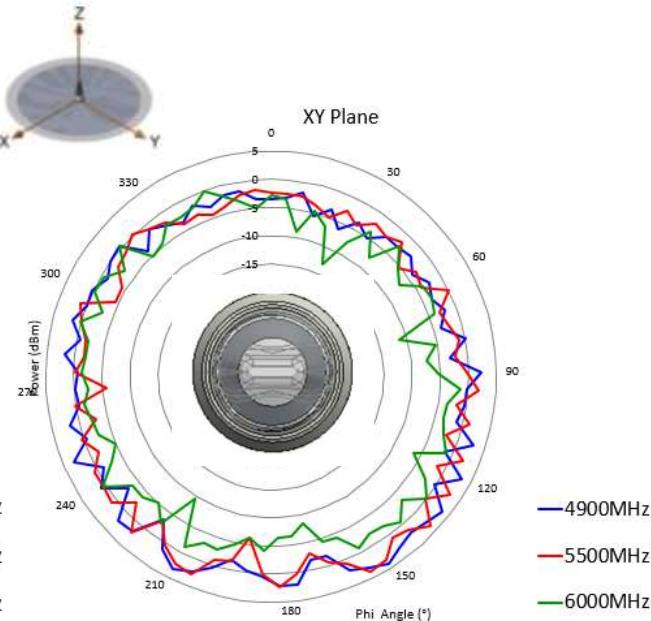
Free Space Radiation Pattern

ICEFIN49NMOHF

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

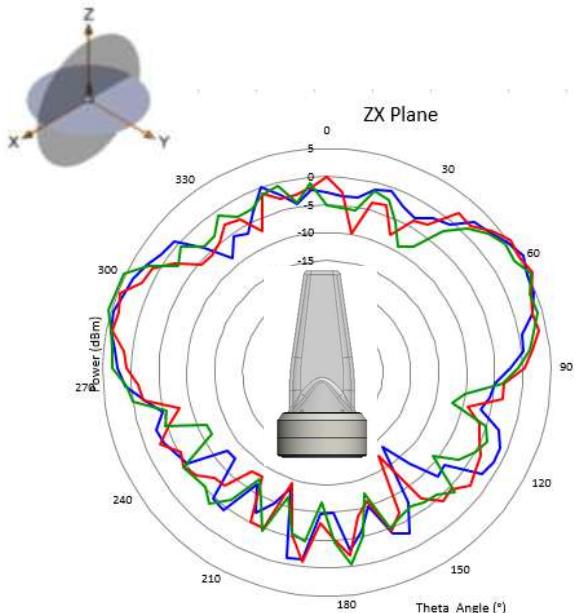
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## CHARTS

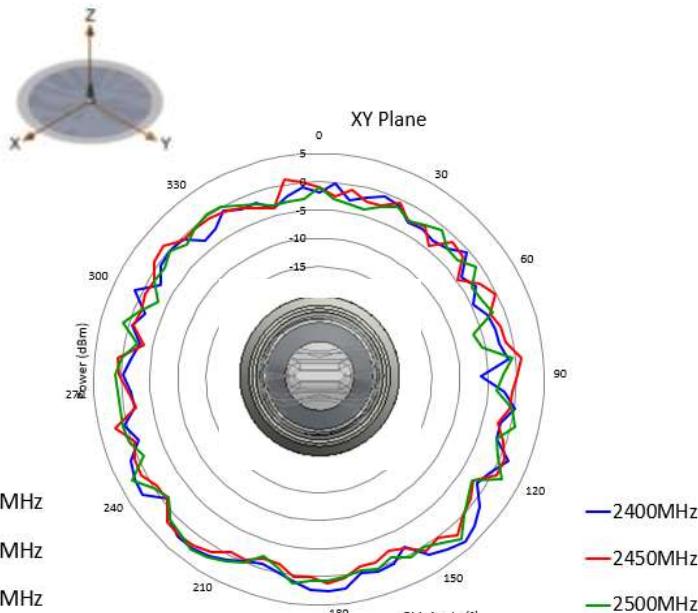
### Free Space Radiation Pattern

ICEFINWNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

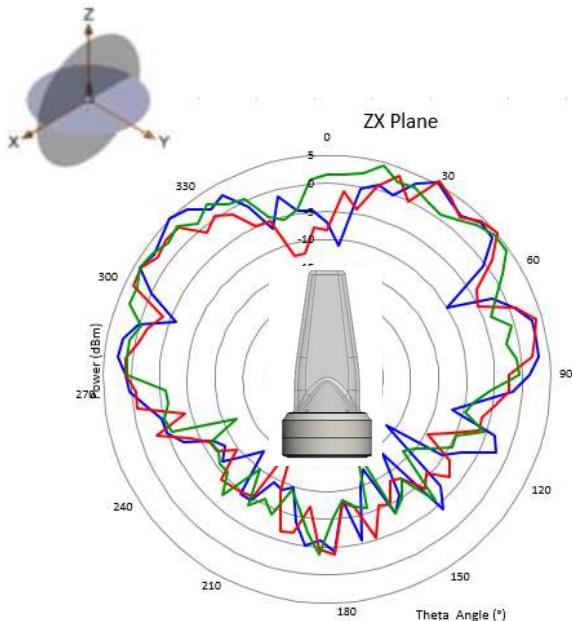
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## CHARTS

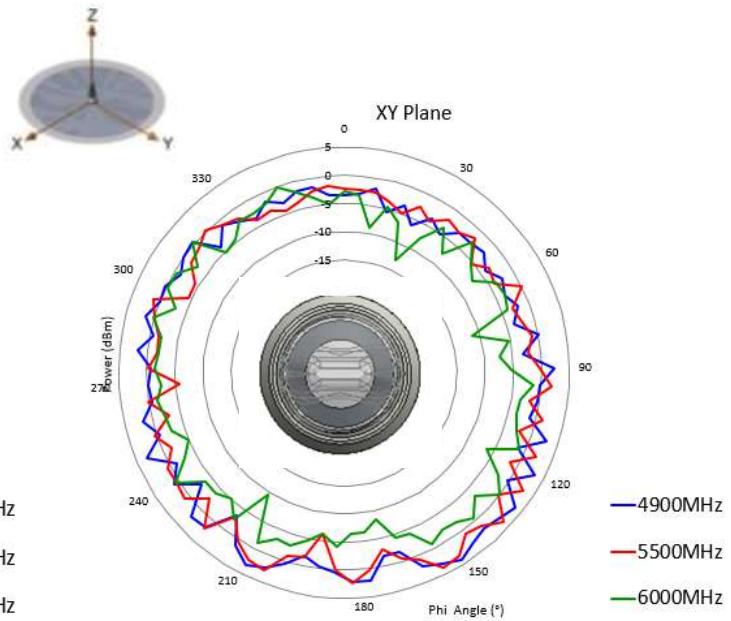
### Free Space Radiation Pattern

ICEFINWNMOHF

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

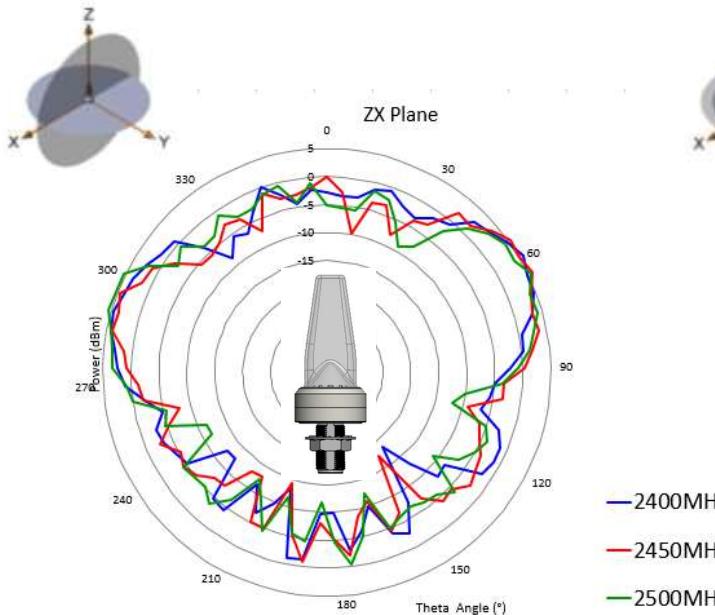
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CHARTS

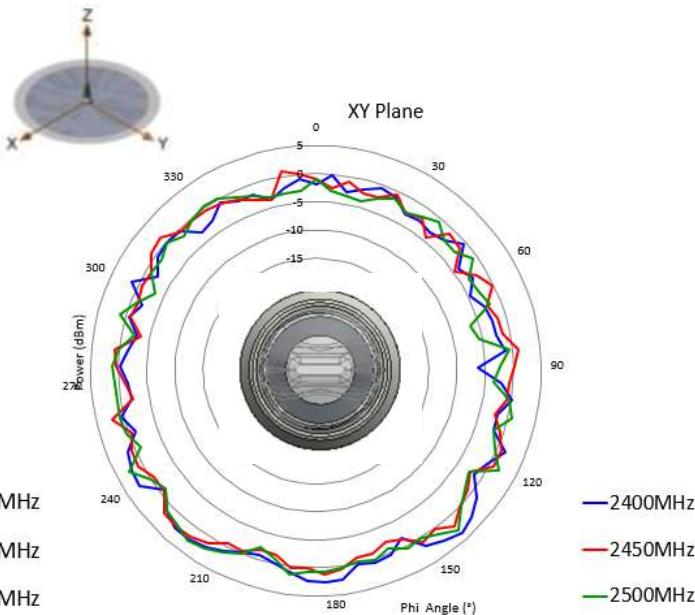
Free Space Radiation Pattern

ICEFIN24DMN

Elevation Plane



Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

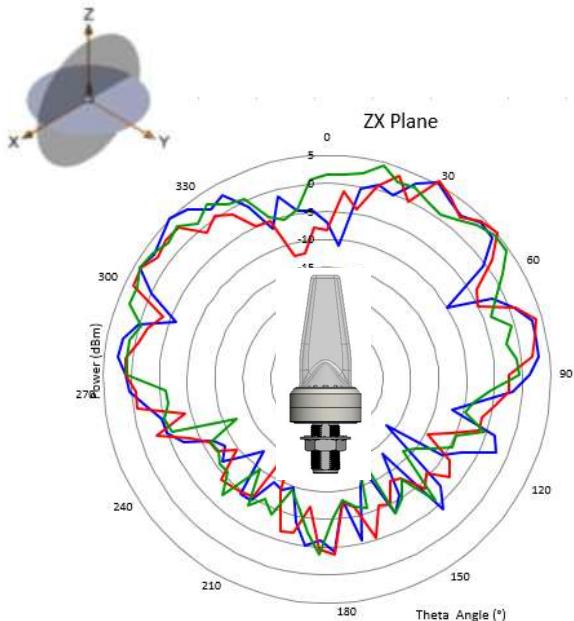
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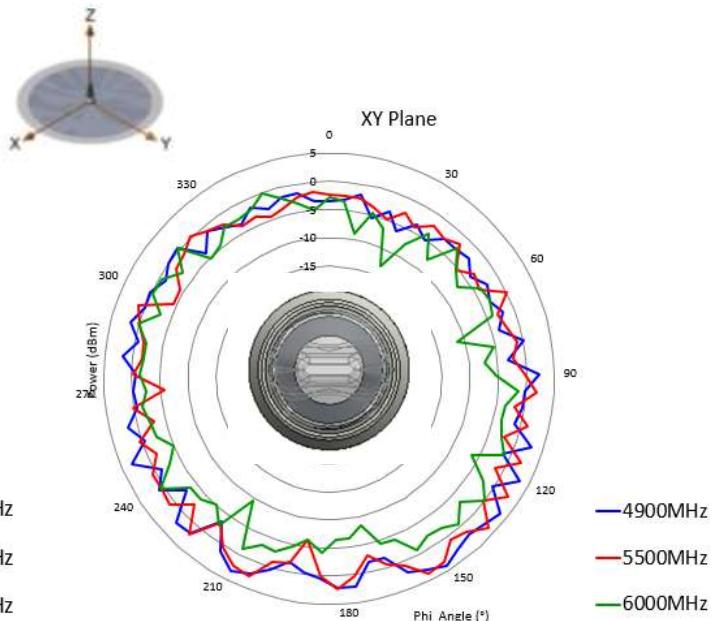
### Free Space Radiation Pattern

ICEFIN49DMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

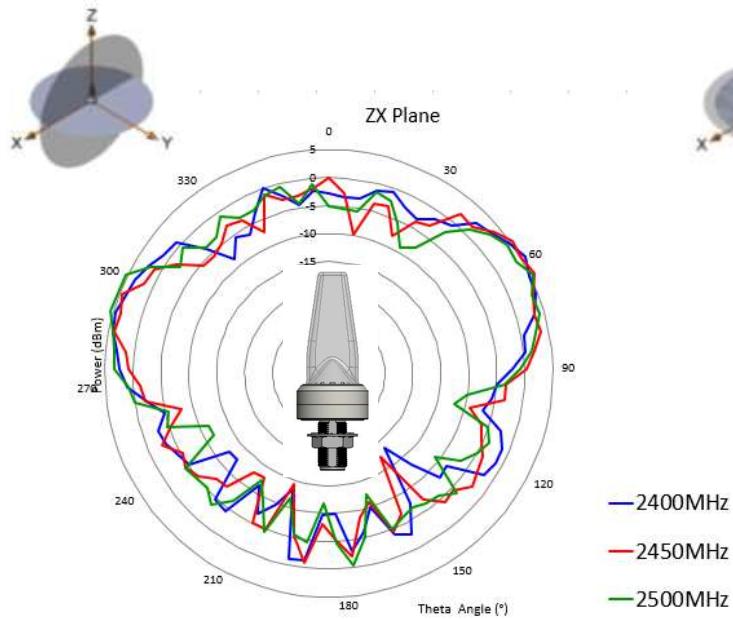
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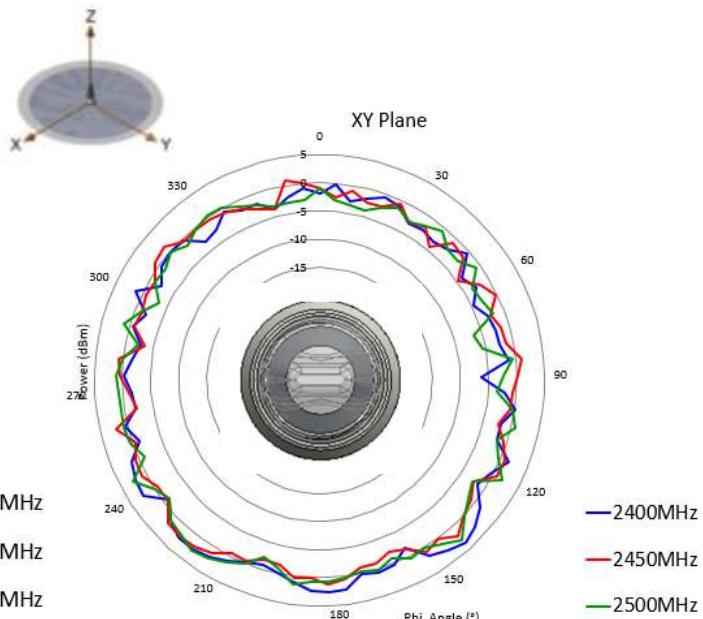
### Free Space Radiation Pattern

ICEFINWDMN

#### Elevation Plane



#### Horizontal Plane



Issue: 1743

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Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

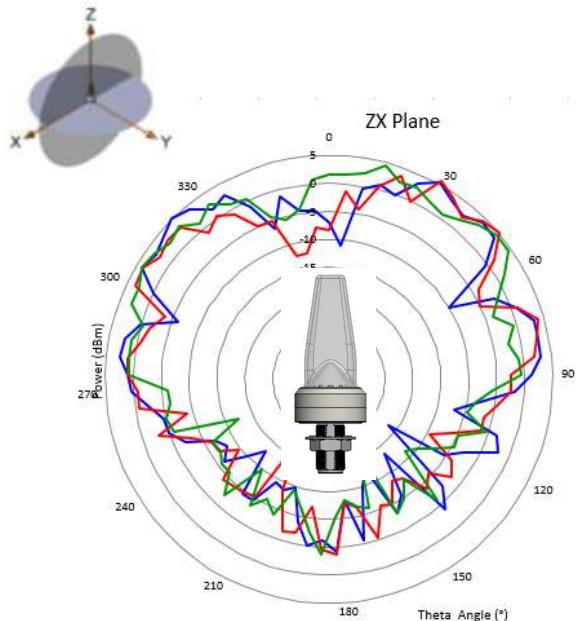
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CHARTS

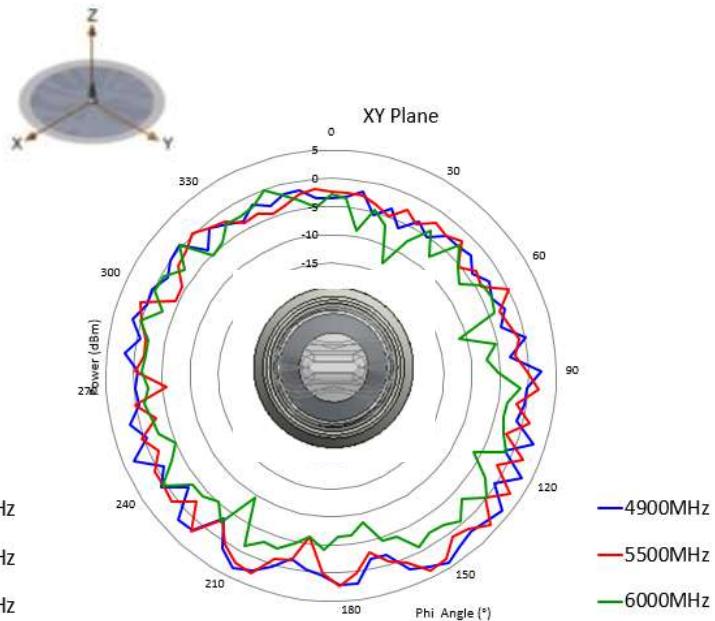
Free Space Radiation Pattern

ICEFINWDMN

Elevation Plane



Horizontal Plane



Issue: 1743

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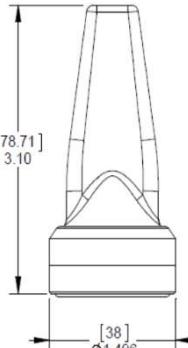
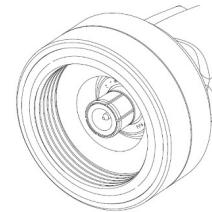
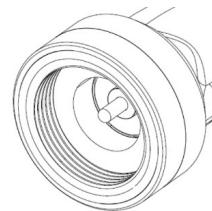
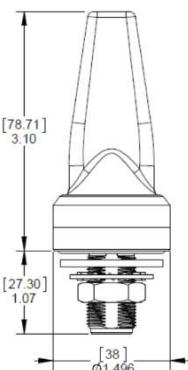
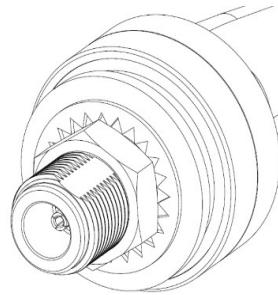


Description: LOW PROFILE MULTIBAND  
ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

## 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			
ICEFIN806NMO	Clarity	806-960MHz		NMO Pogo Pin Connector	96 pcs / Carton
ICEFIN698/869DMN	Clarity	698-869MHz			
ICEFIN806DMN	Clarity	806-960MHz		DMN Direct Mount + N Female Connector (Screw 5/18-24 UNEF 2A)	
ICEFINLDMN	Clarity	698-960MHz 1710-2700MHz			

Issue: 1743

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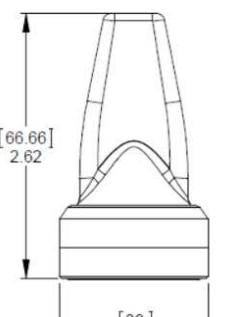
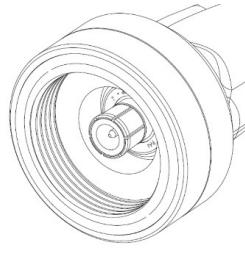
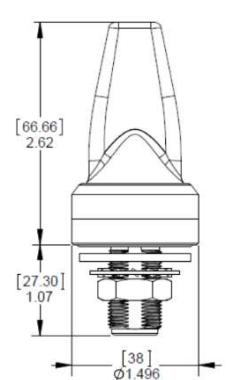
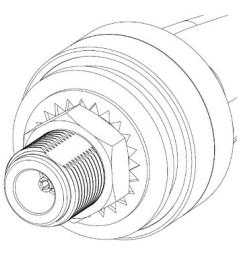


Description: LOW PROFILE MULTIBAND  
ANTENNA

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			
ICEFINWNMOHF	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			
ICEFINWDMN	Clarity	2400-2500MHz 4900-6000MHz			

Issue: 1743

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# OCEAN CHIPS

## Океан Электроники

### Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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 дистрибутором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибутором 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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Электронная почта: ocean@oceanchips.ru

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