

Antenna Test Report

Customer	芯耀阳
Project	H16
Product Description	Ceramic patch antenna
Antenna version	V1
DATE	2024. 12. 11

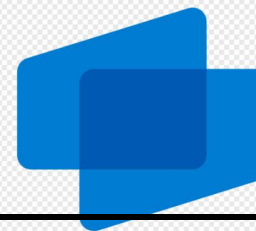
Purpose

This report is to measure the performance of BT antenna for The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

2. Test System



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CHIP DEVELOPMENT

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071B & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071B



GTS



Agilent E5071B

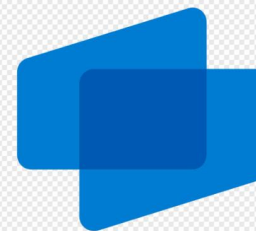


CMW 500

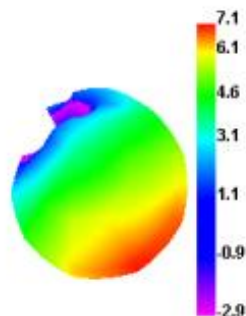


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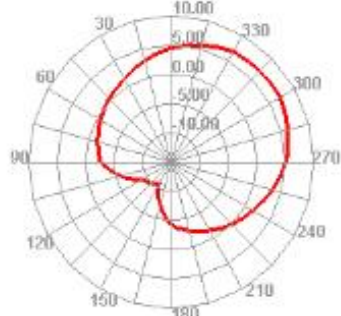
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Band	Channel	Gain(dBi)	TIS(dBm)
BT	0	1.74	-86.9
	39	1.45	-86.41
	78	1.26	-86.2



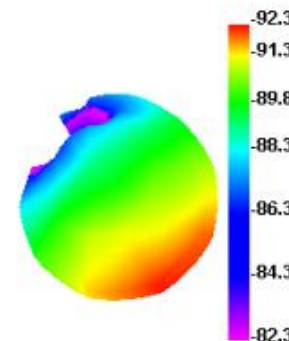
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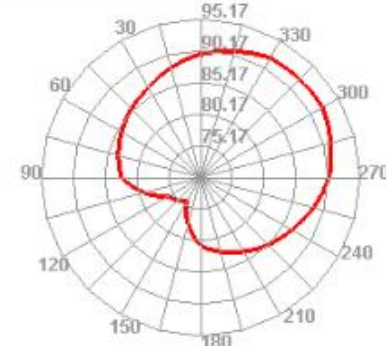
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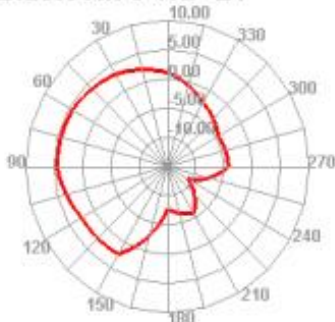
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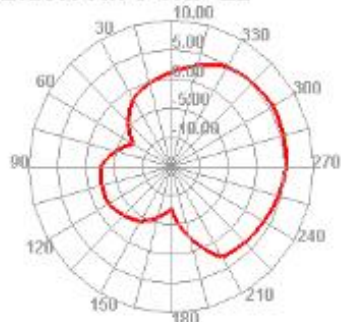
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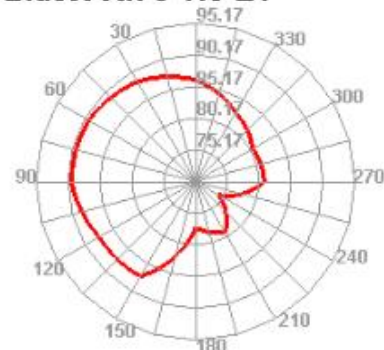
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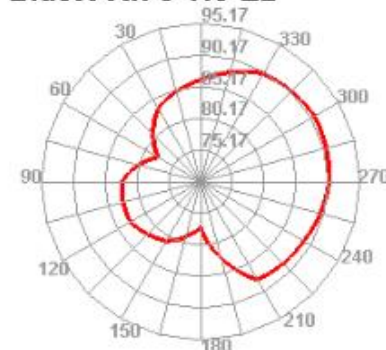
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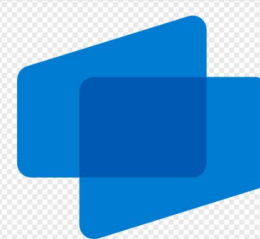


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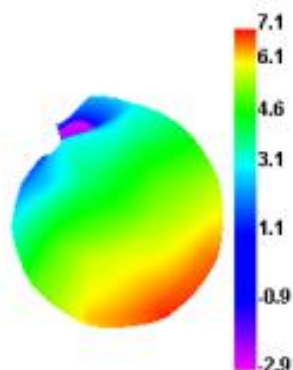


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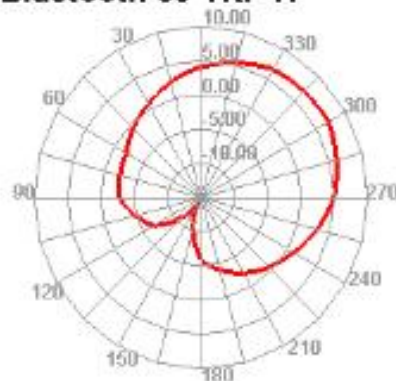




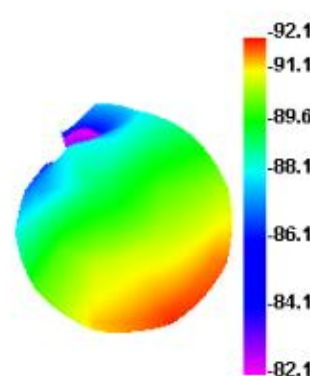
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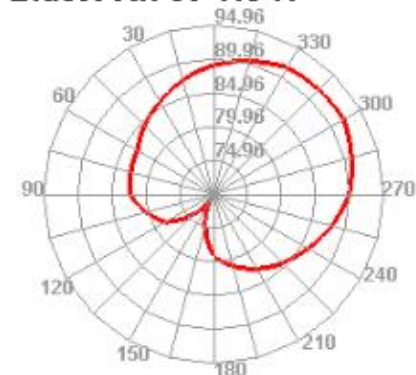
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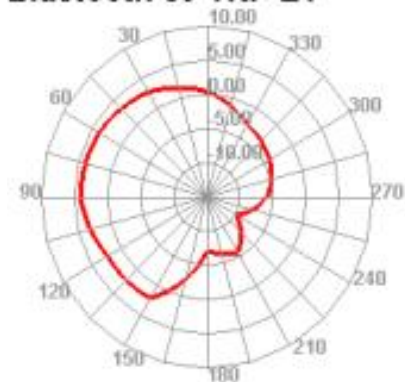
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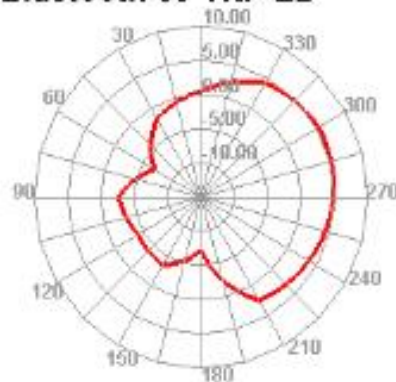
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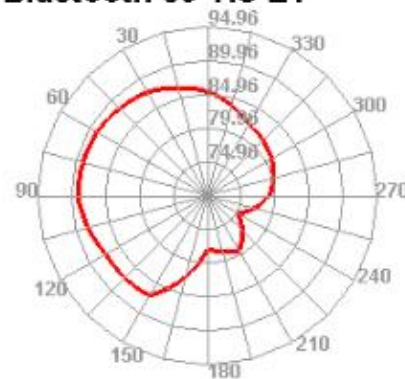
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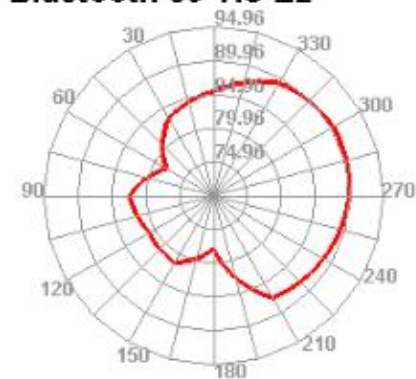
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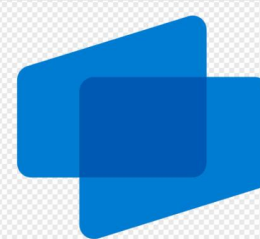


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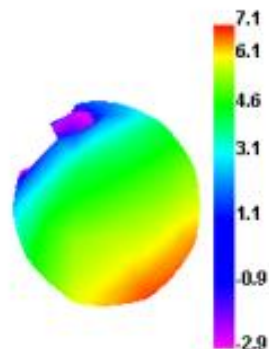


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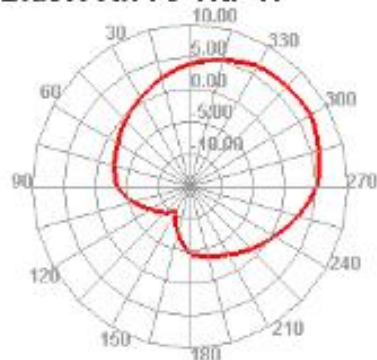




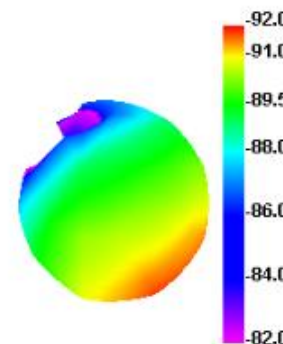
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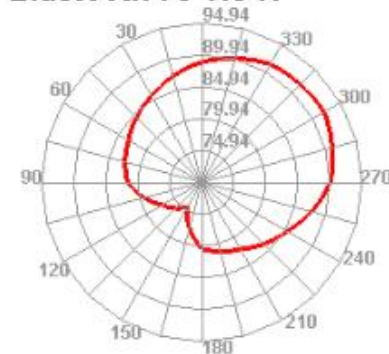
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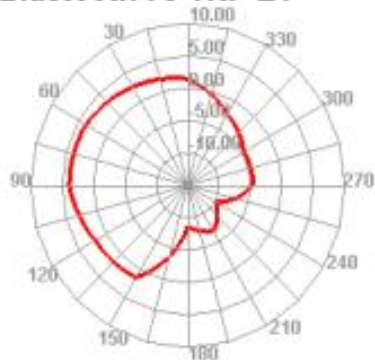
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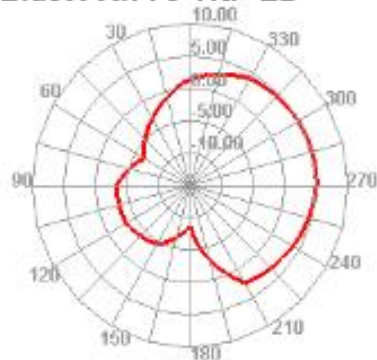
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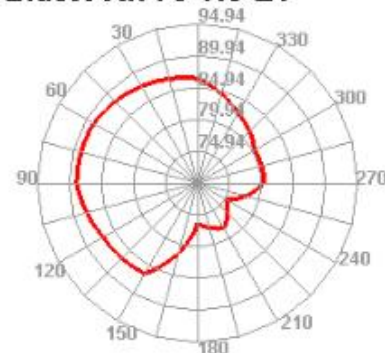
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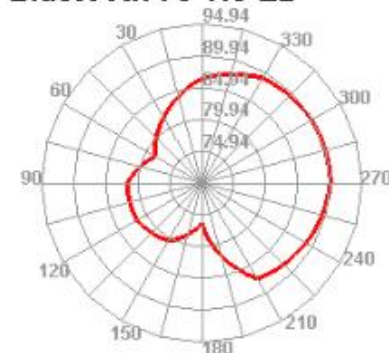
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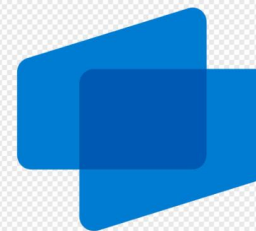
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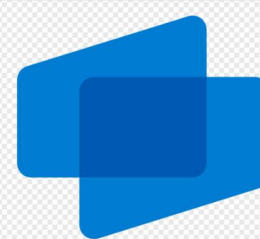


OTA DATA- H16-RX-BT

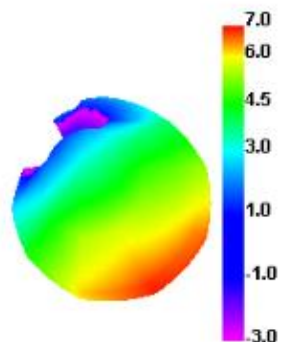


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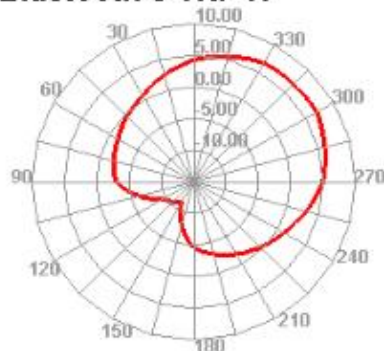
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Band	Channel	Gain(dBi)	TIS(dBm)
BT	0	1.53	-86.82
	39	1.3	-86.34
	78	1.2	-85.62



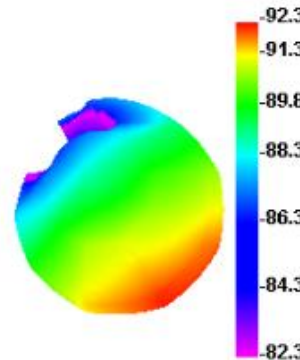
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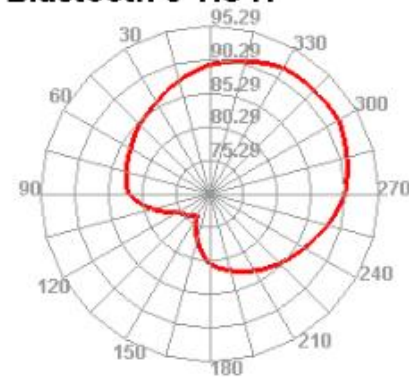
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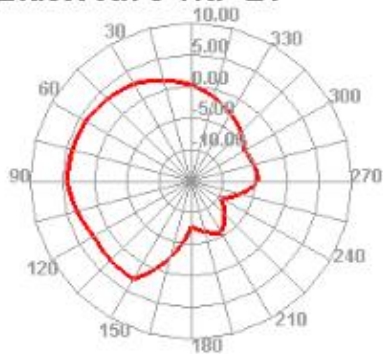
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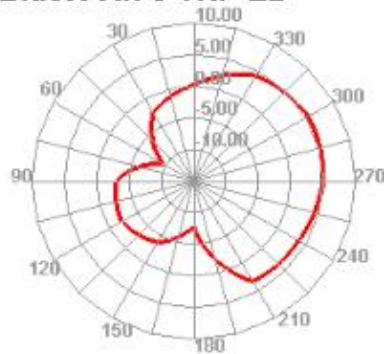
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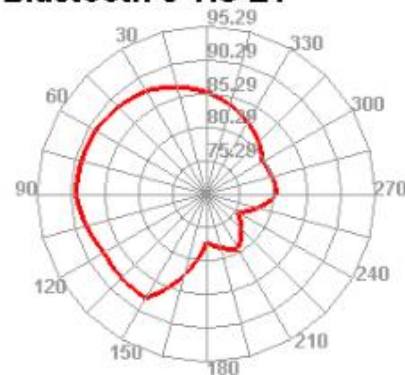
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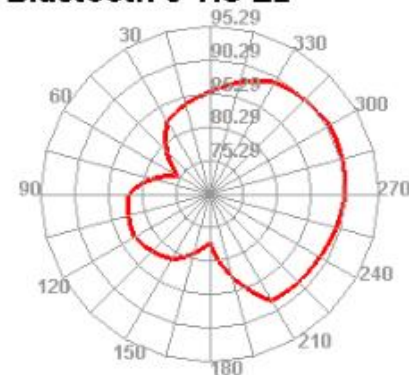
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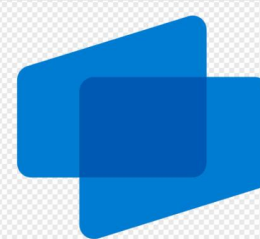


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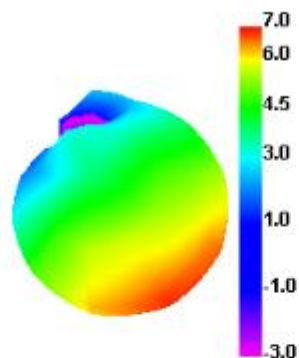


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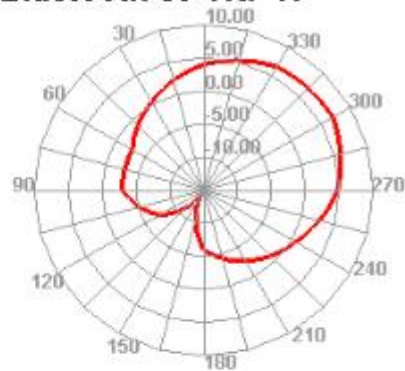




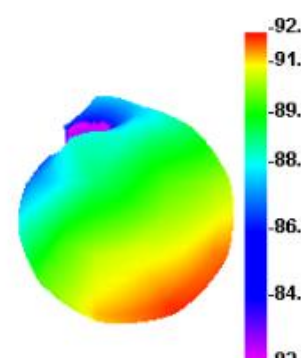
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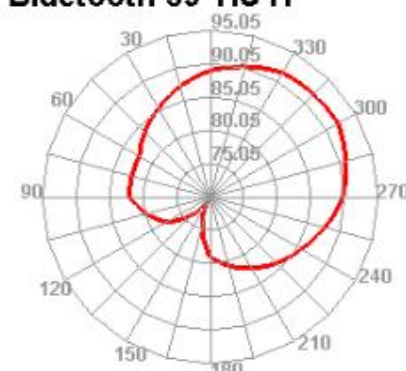
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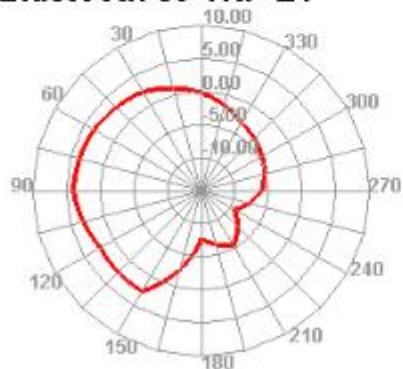
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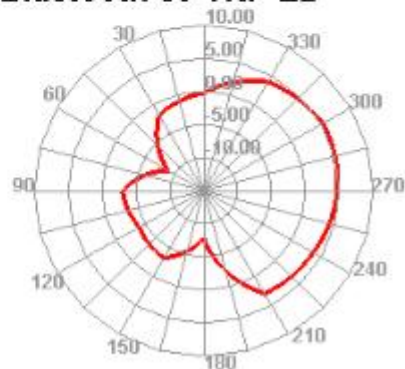
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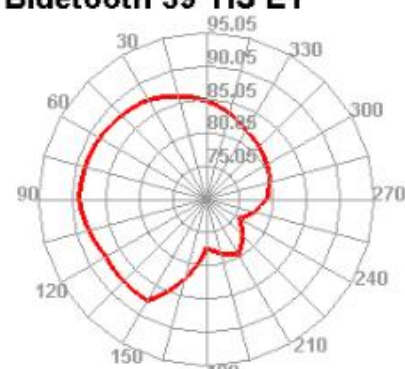
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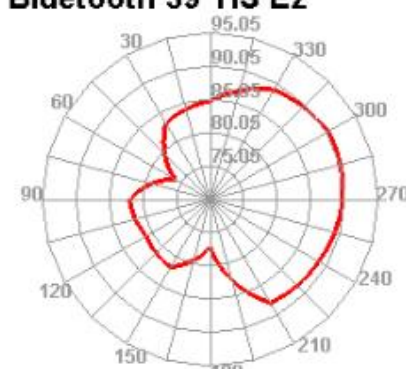
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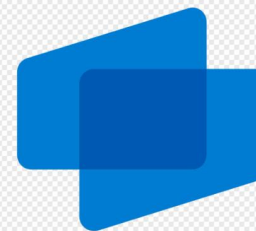


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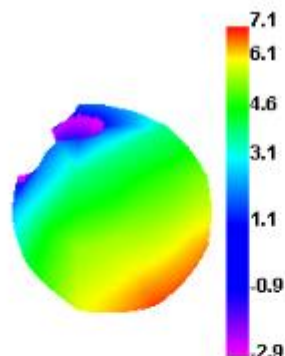


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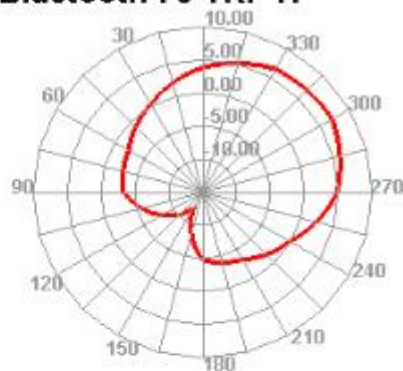




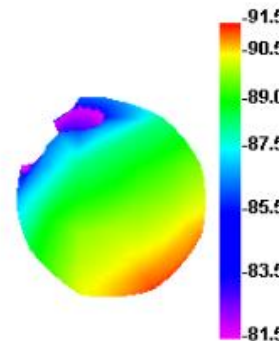
Bluetooth 78 TRP



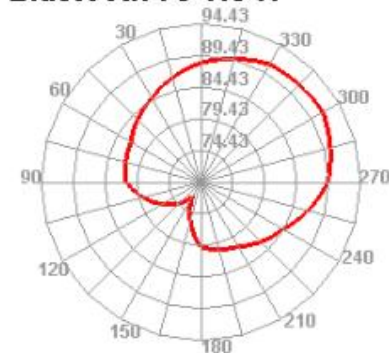
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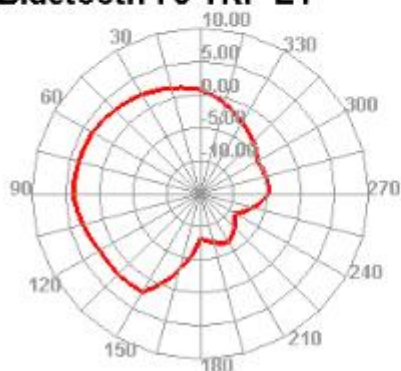
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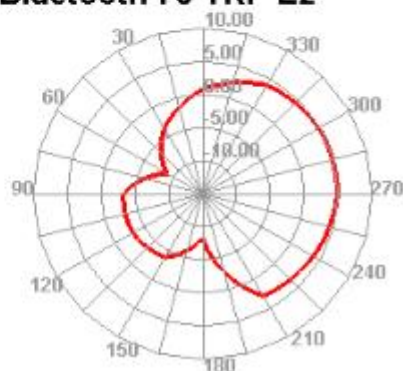
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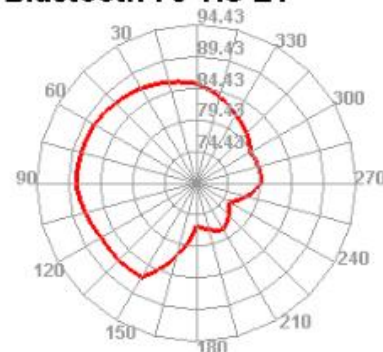
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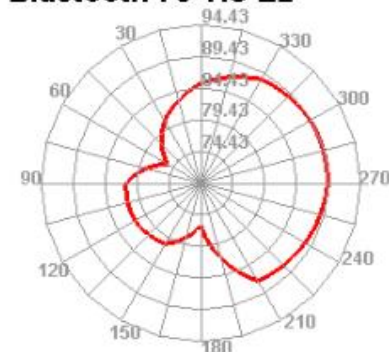
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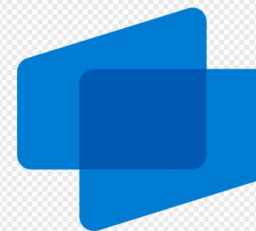


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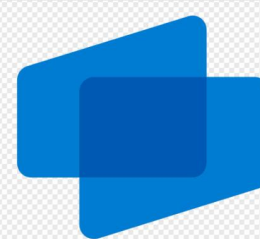


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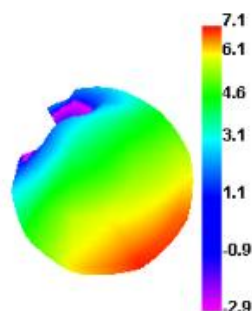




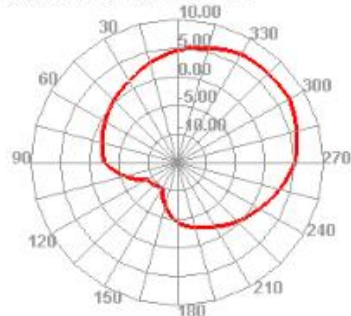
Test Equipment:	R&S CMW500		
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BT	0	1.73	-86.87
	39	1.64	-87.37
	78	1.73	-87.18



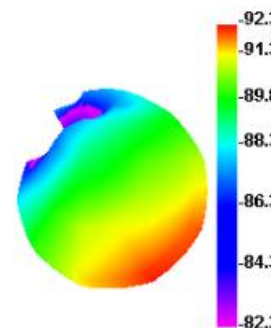
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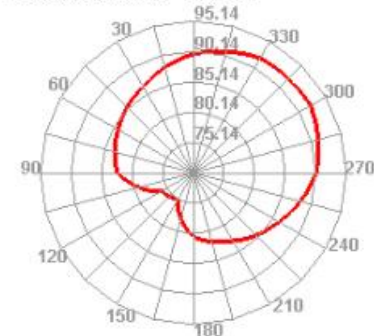
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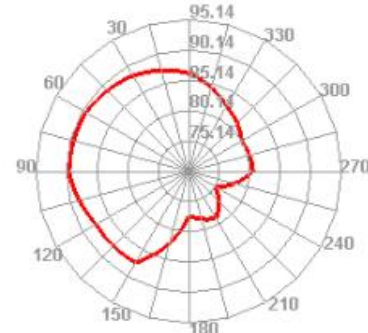
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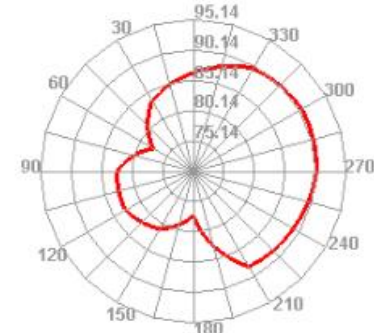
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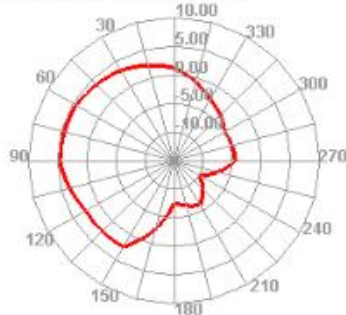
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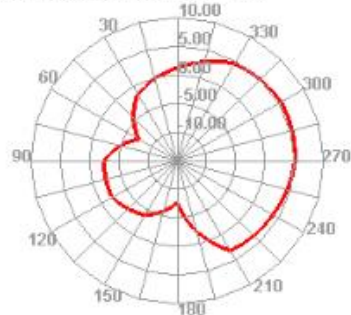
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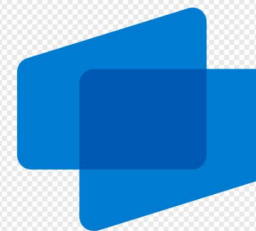


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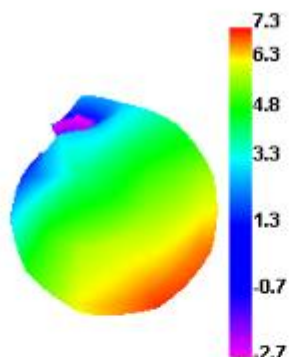


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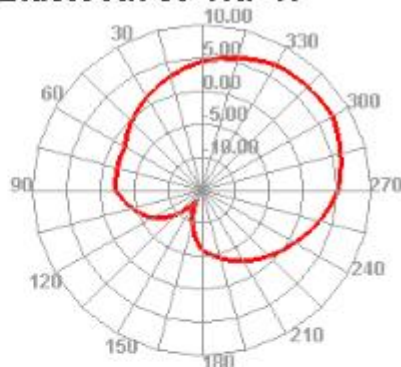




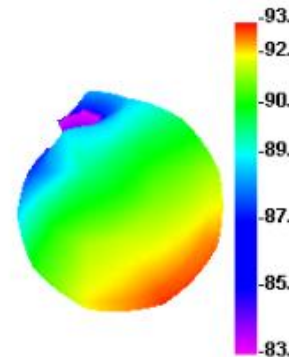
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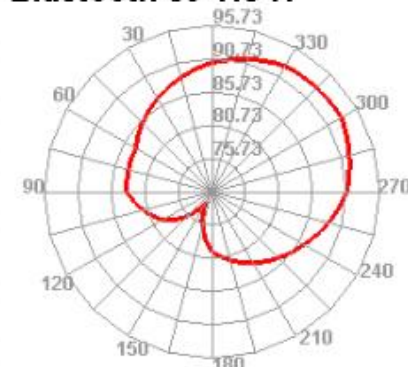
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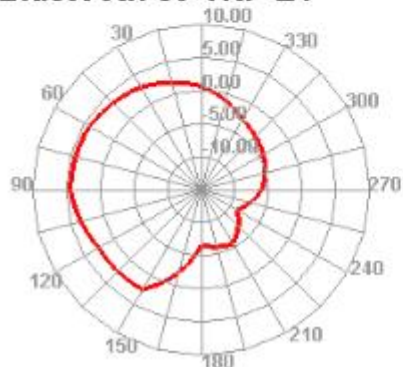
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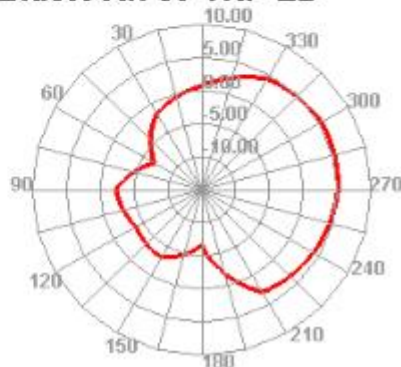
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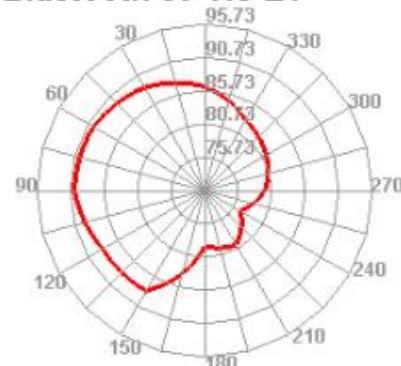
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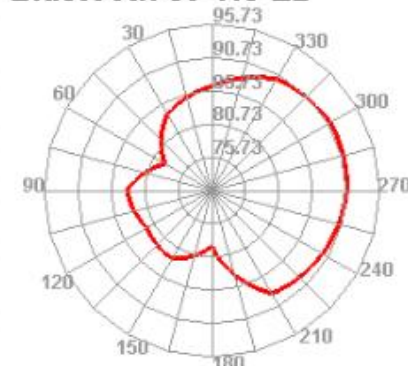
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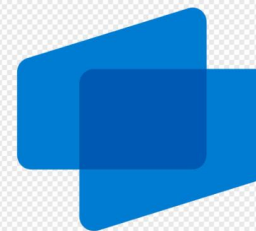


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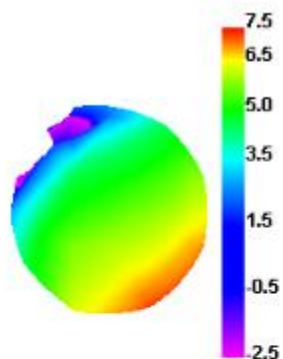


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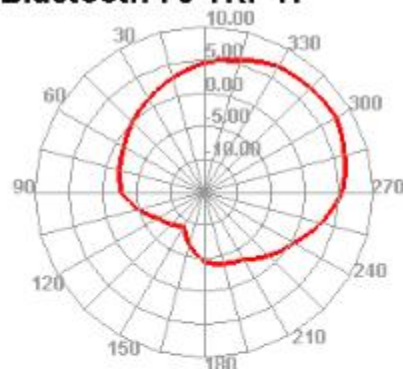




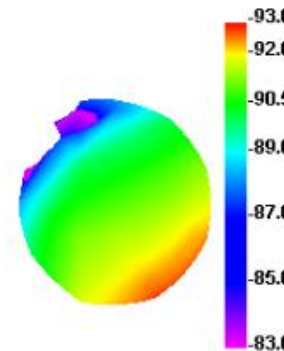
Bluetooth 78 TRP



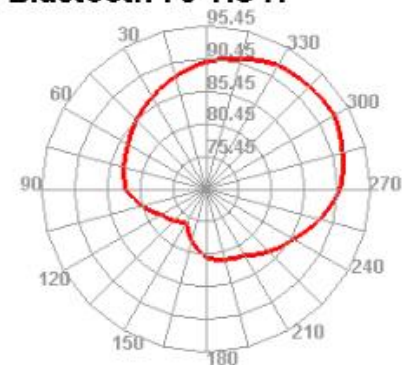
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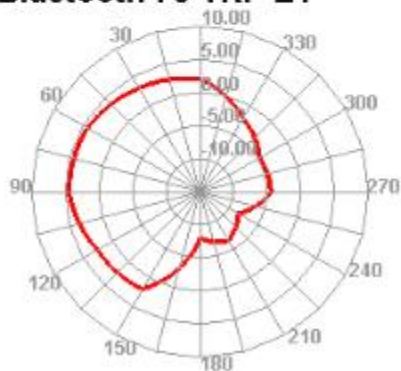
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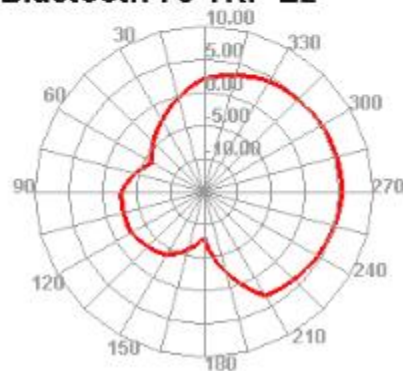
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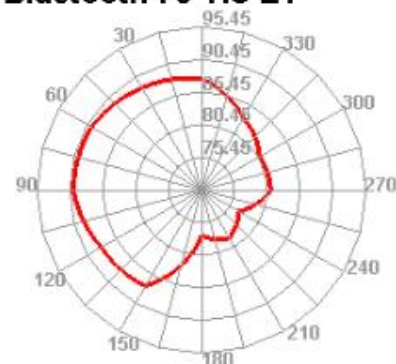
Bluetooth 78 TRP E1



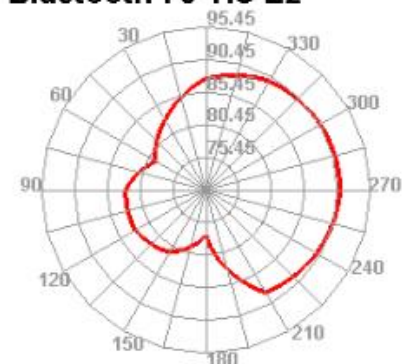
Bluetooth 78 TRP E2

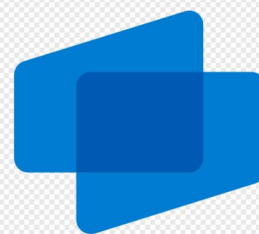


Bluetooth 78 TIS E1



Bluetooth 78 TIS E2





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CHIP DEVELOPMENT

Thanks for your comment!

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