Antennas Testing Report

Name of Customer	WTRLOK	RF Eengineer	Qiang Xiao
Name of Item	WTRLOK L1	Structural Engineer	Mingzhen Huang
Antenna model	L1		
Antennas Frenquency	WIFI		
Version of Report	Time	Content Overview	
V1.0	2023-5-8	Antennas testing report	

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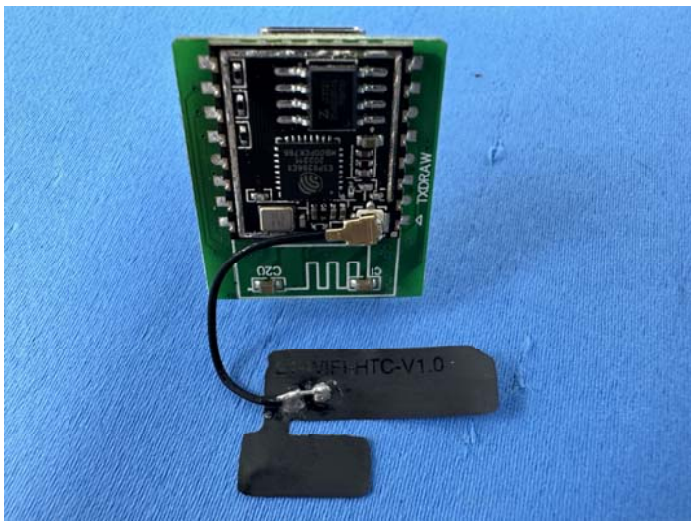
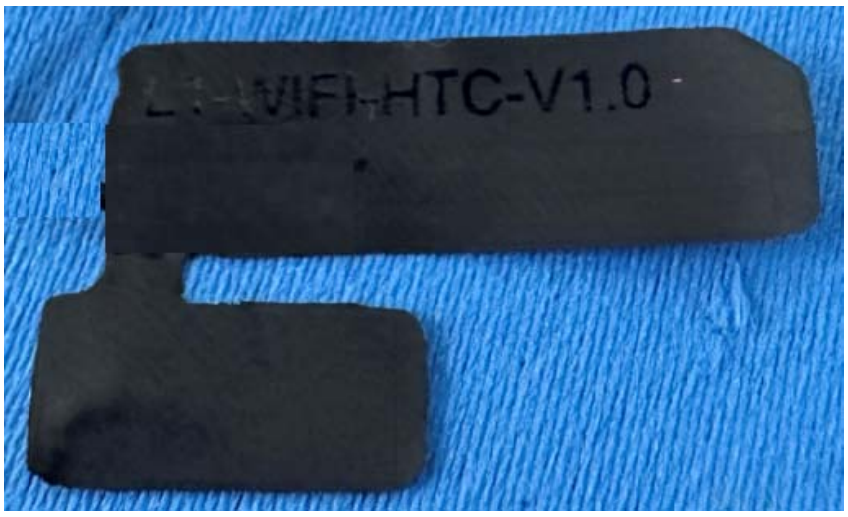
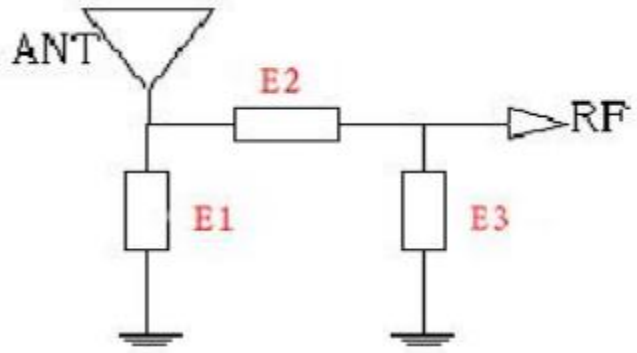
I. Overall rendering





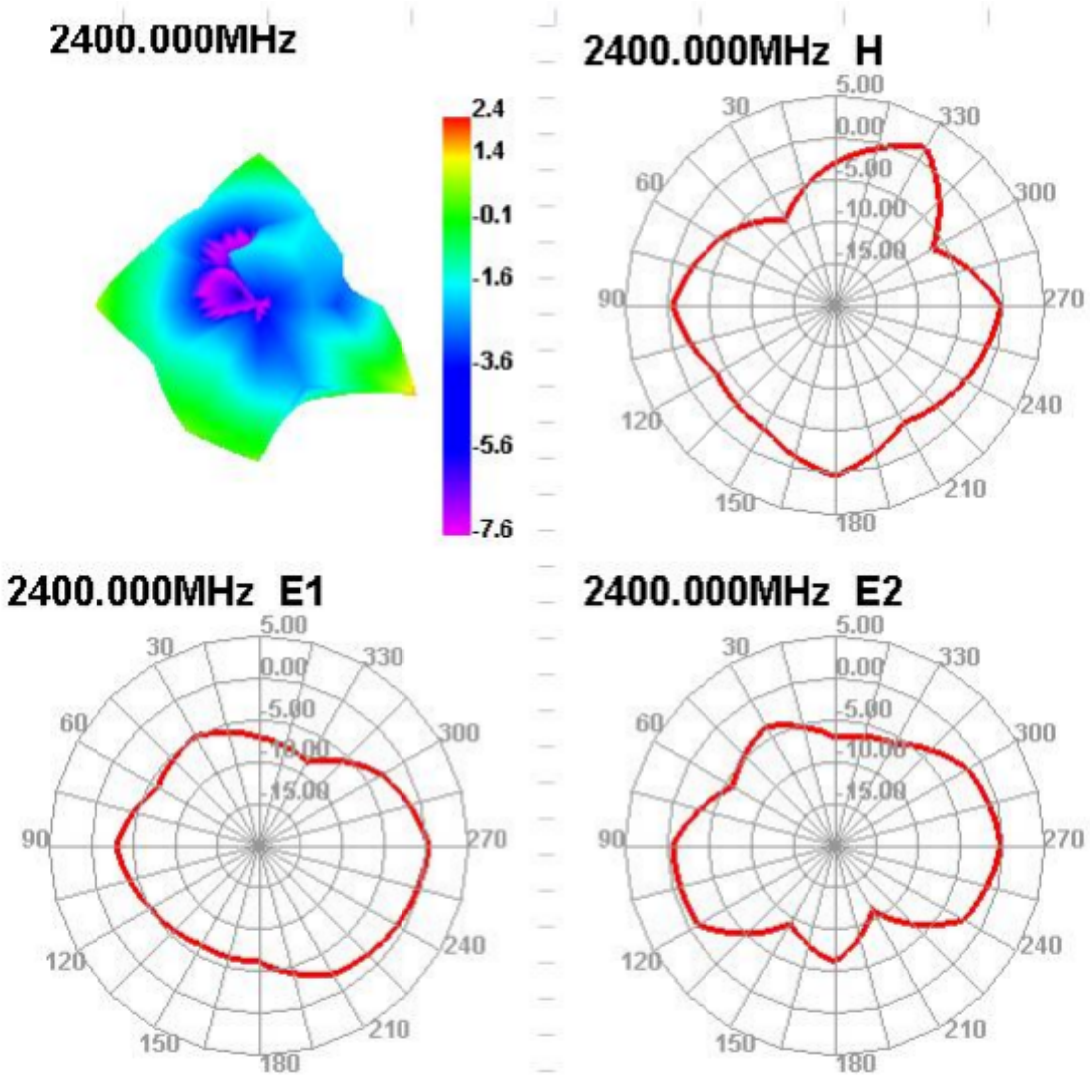
Size: 24mm x 14mm

II. Matching Circuit



E1	E2	E3
NC	0Q	NC

III. Passive antenna diagram



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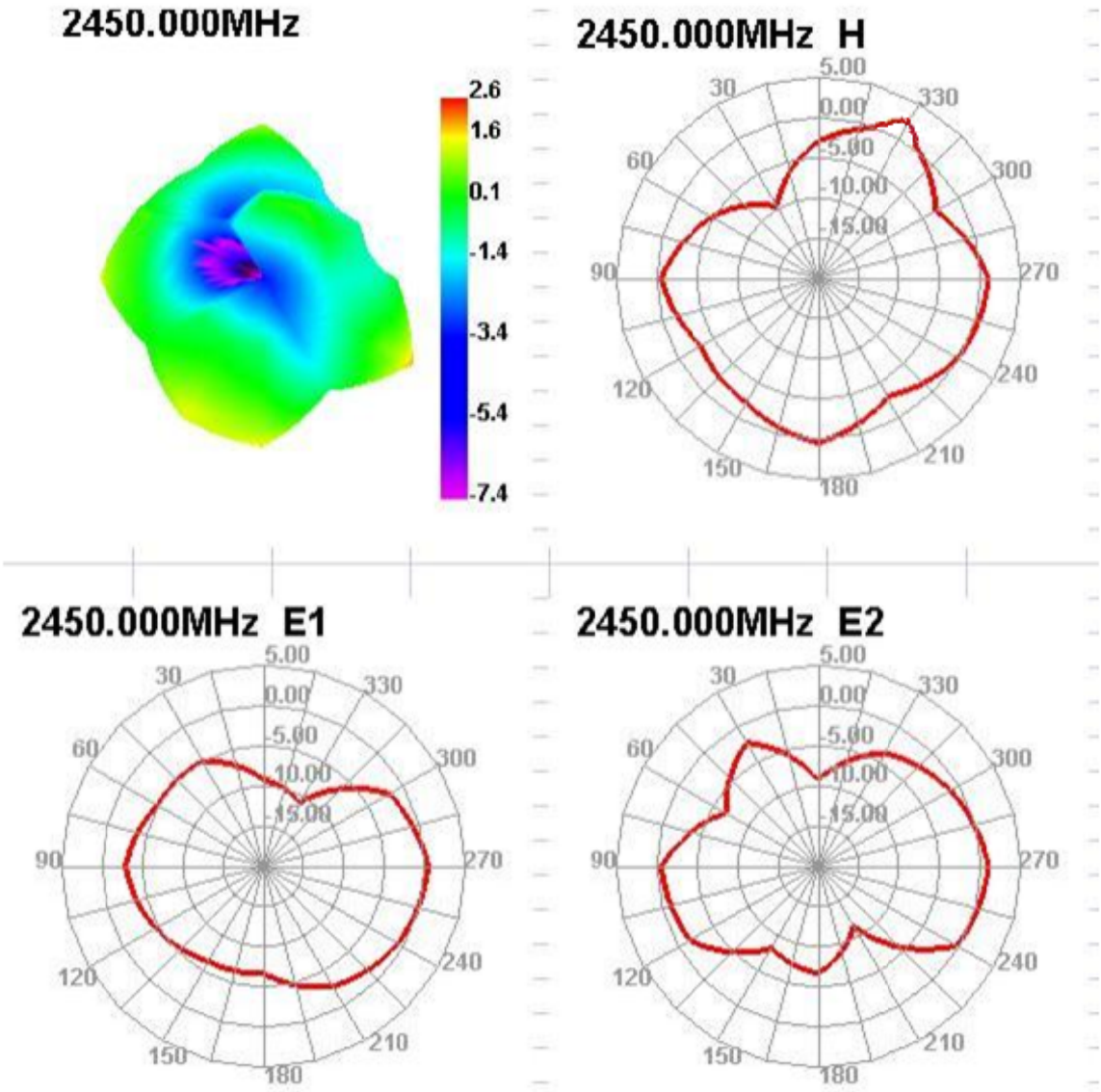

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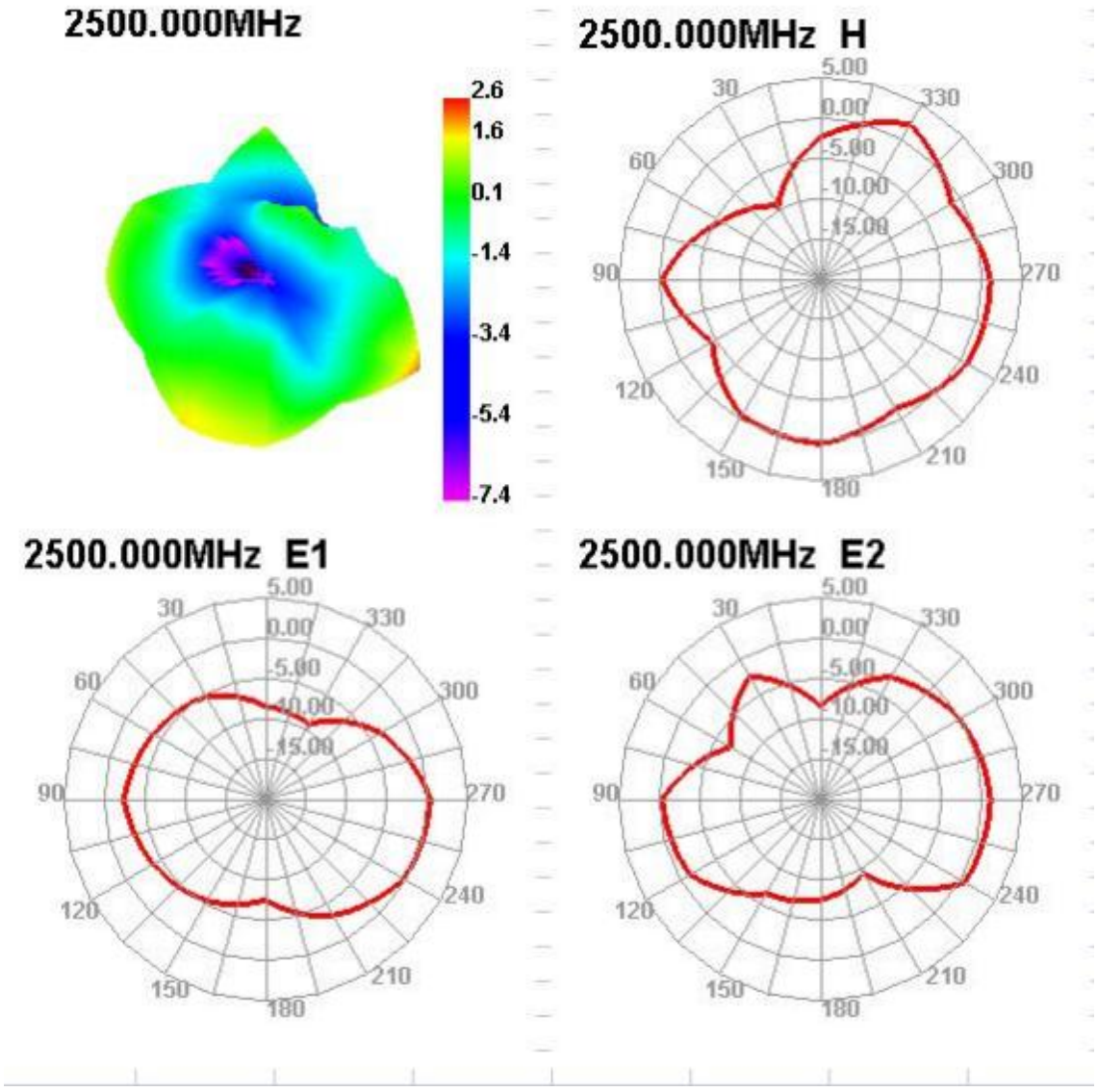


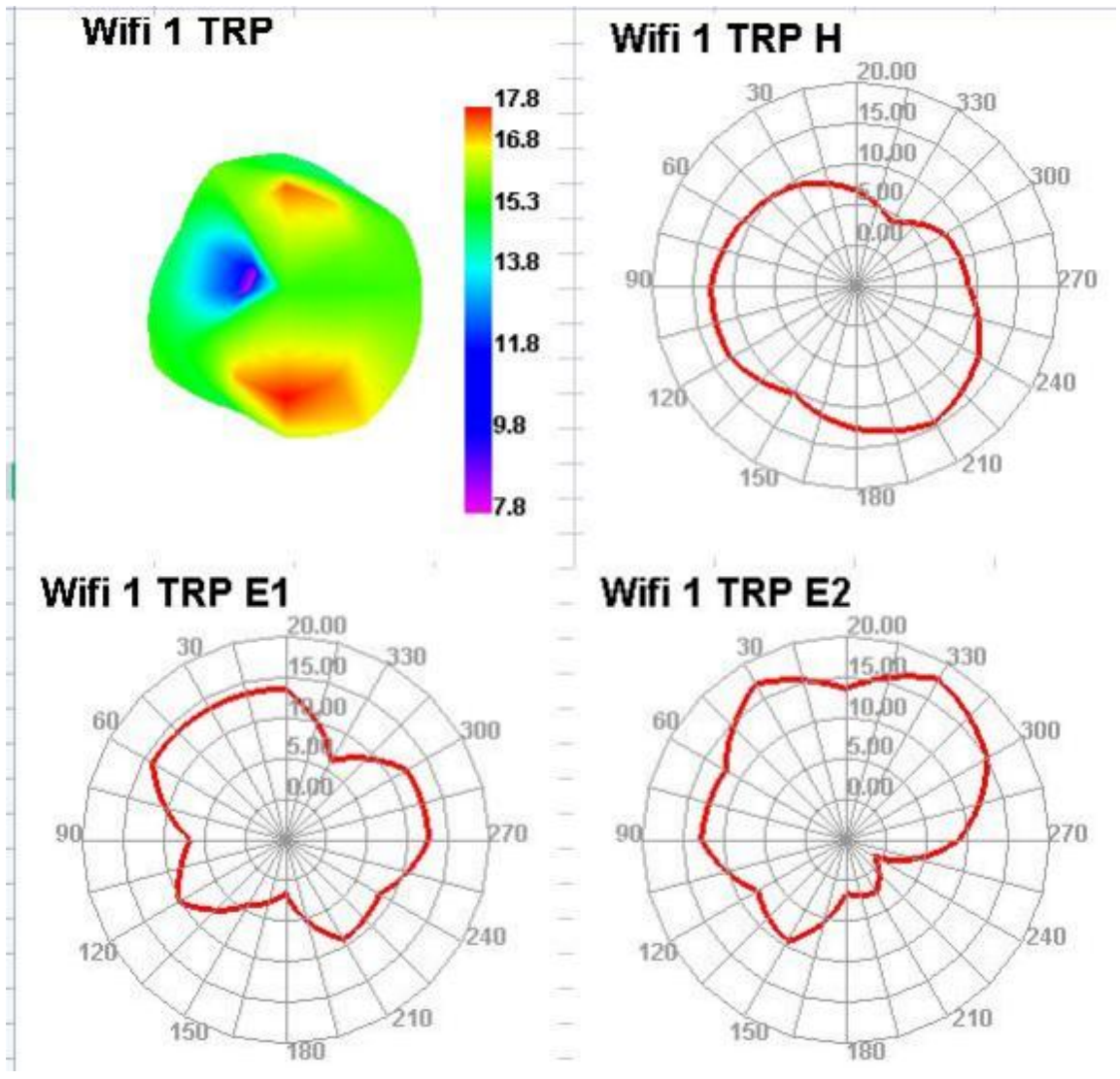
IV. Passive gain efficiency of antenna

Freq (MHz)	Effi (%)	Gain (dBi)
2400	47.26	2.43
2410	45.38	2.31
2420	44.35	2.19
2430	45.52	2.28
2440	45.65	2.12
2450	51.07	2.56
2460	53.81	2.67
2470	56.08	2.7
2480	53.56	2.47
2490	54.36	2.46
2500	56.98	2.64

V. Antenna active testing data

	Band	TRP/TIS	L	M	H
2.4G	11b(11M)	TRP	10.80	10.75	10.62
		TIS			-82.23
	11g(54M)	TRP	9.91	9.65	9.58
		TIS			-70.08
	11n(MCS7)	TRP	9.47	9.55	9.85
		TIS			-62.84

VI11b. Active map



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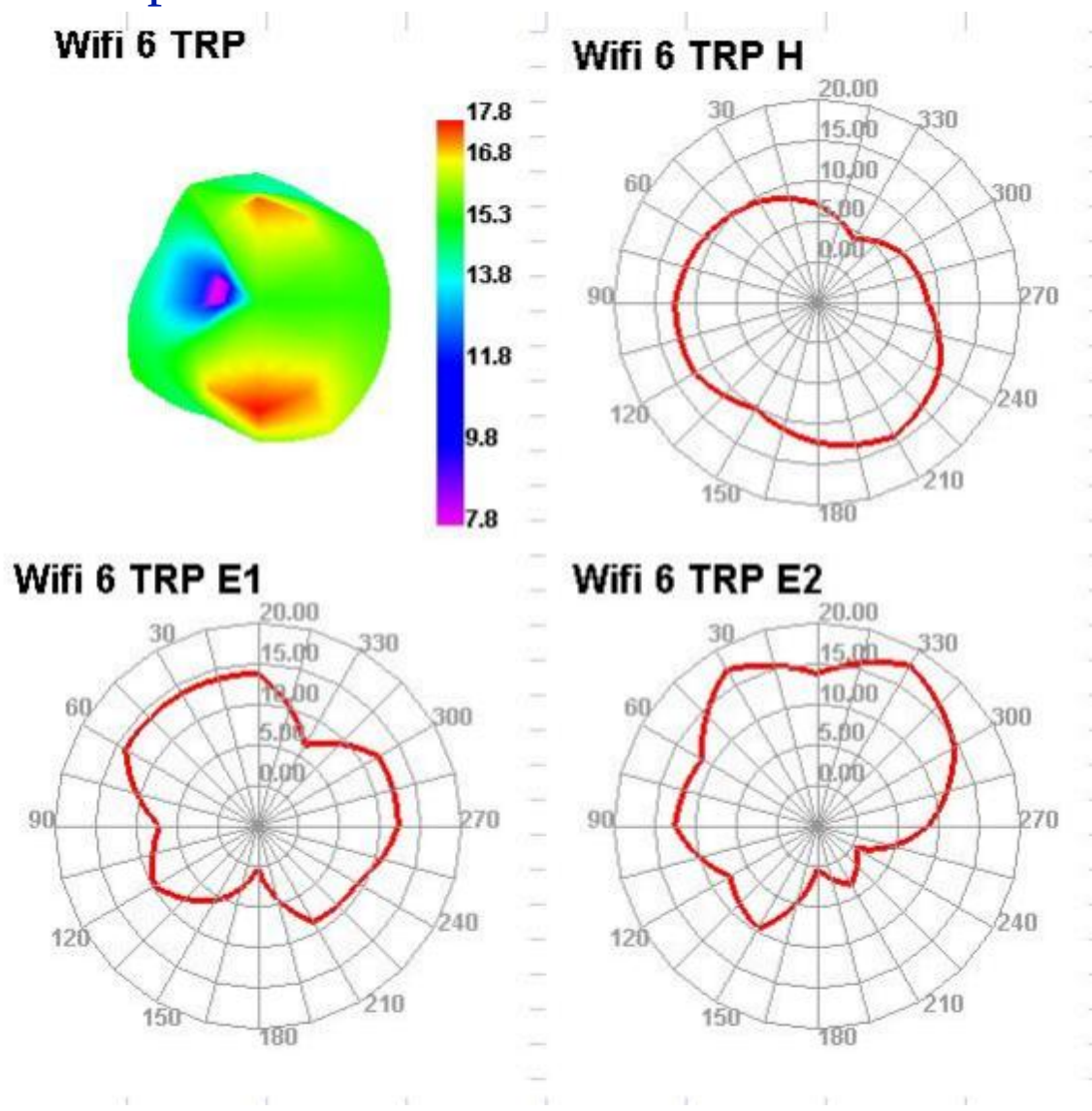

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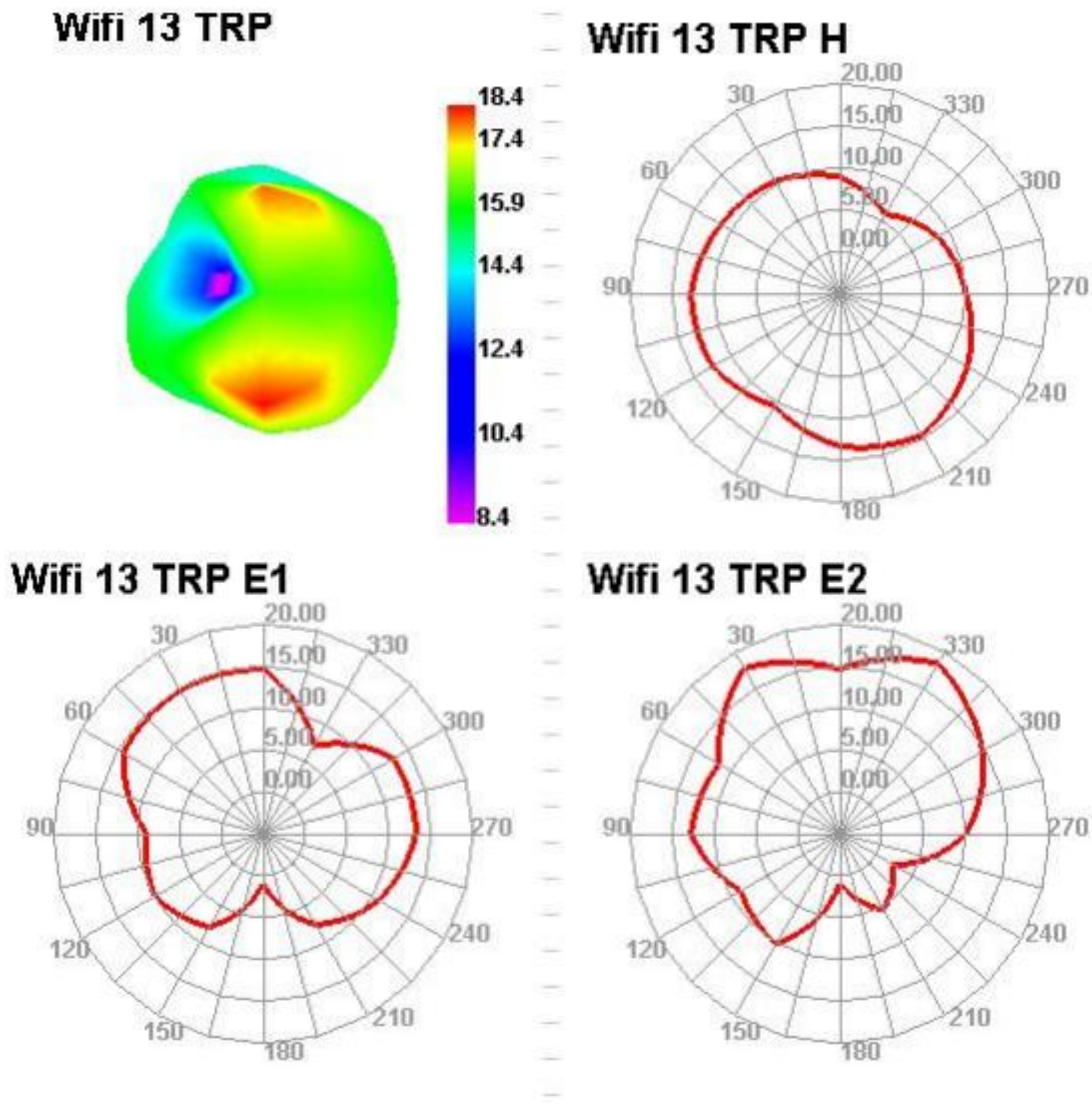
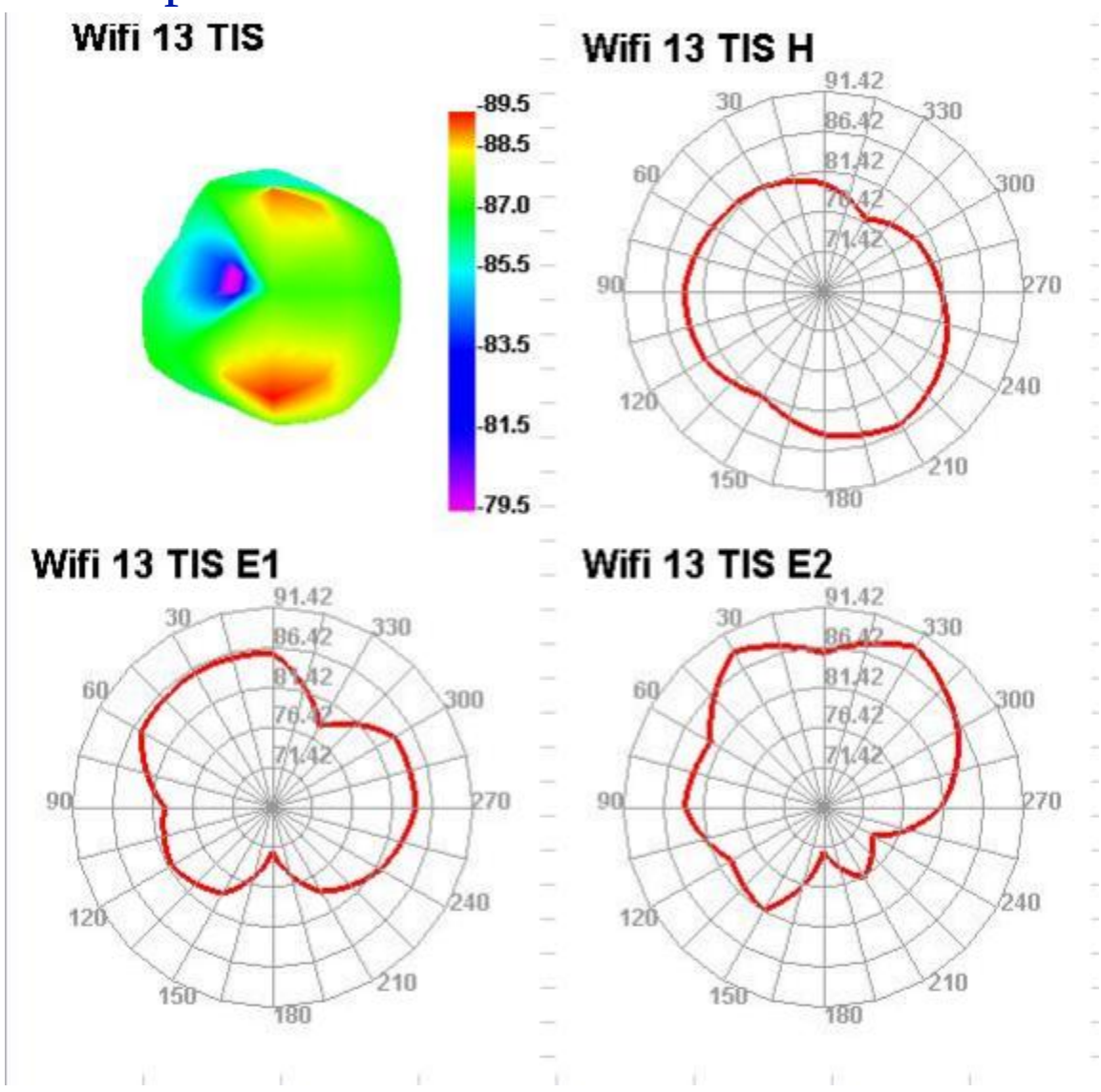
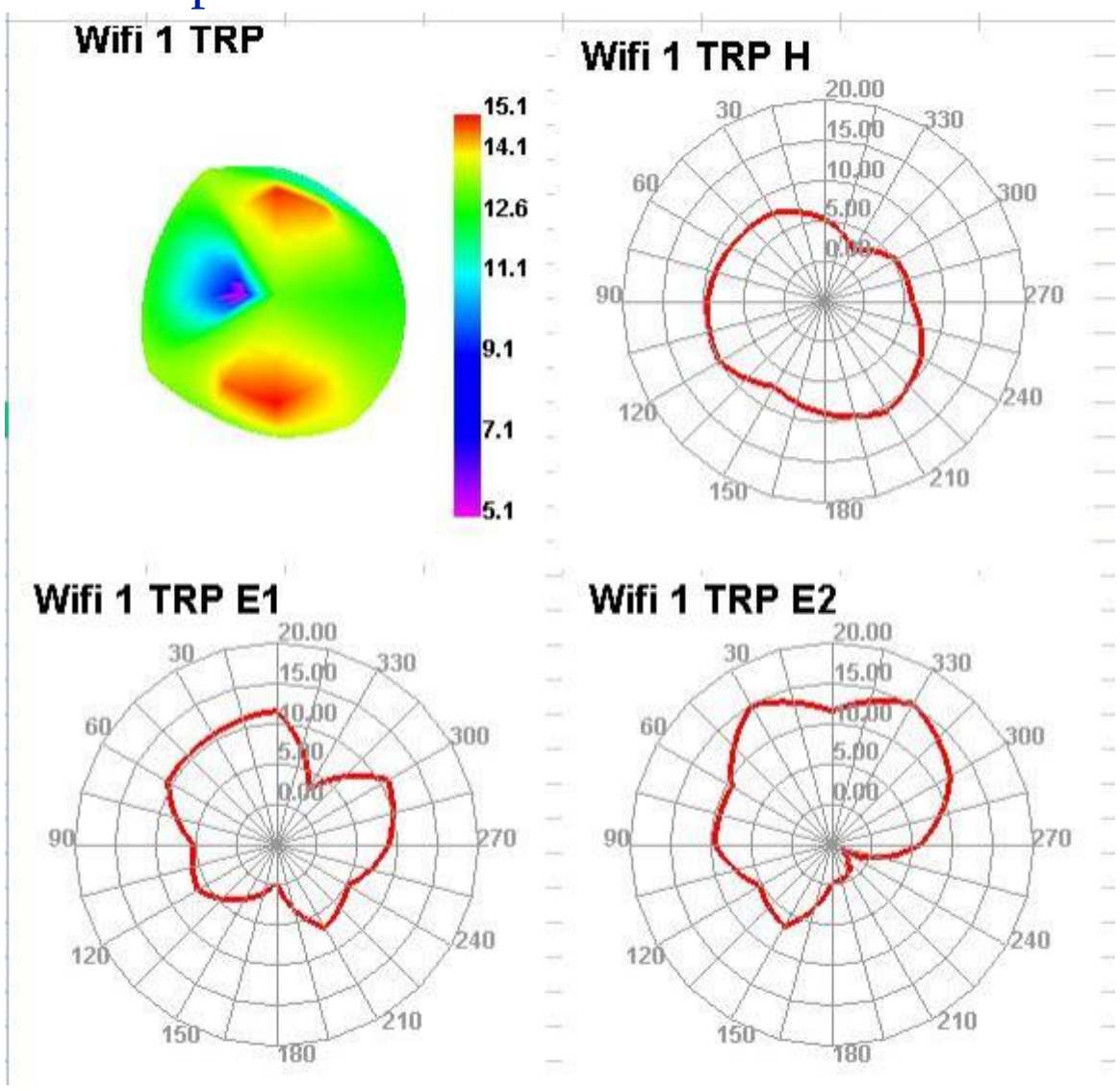


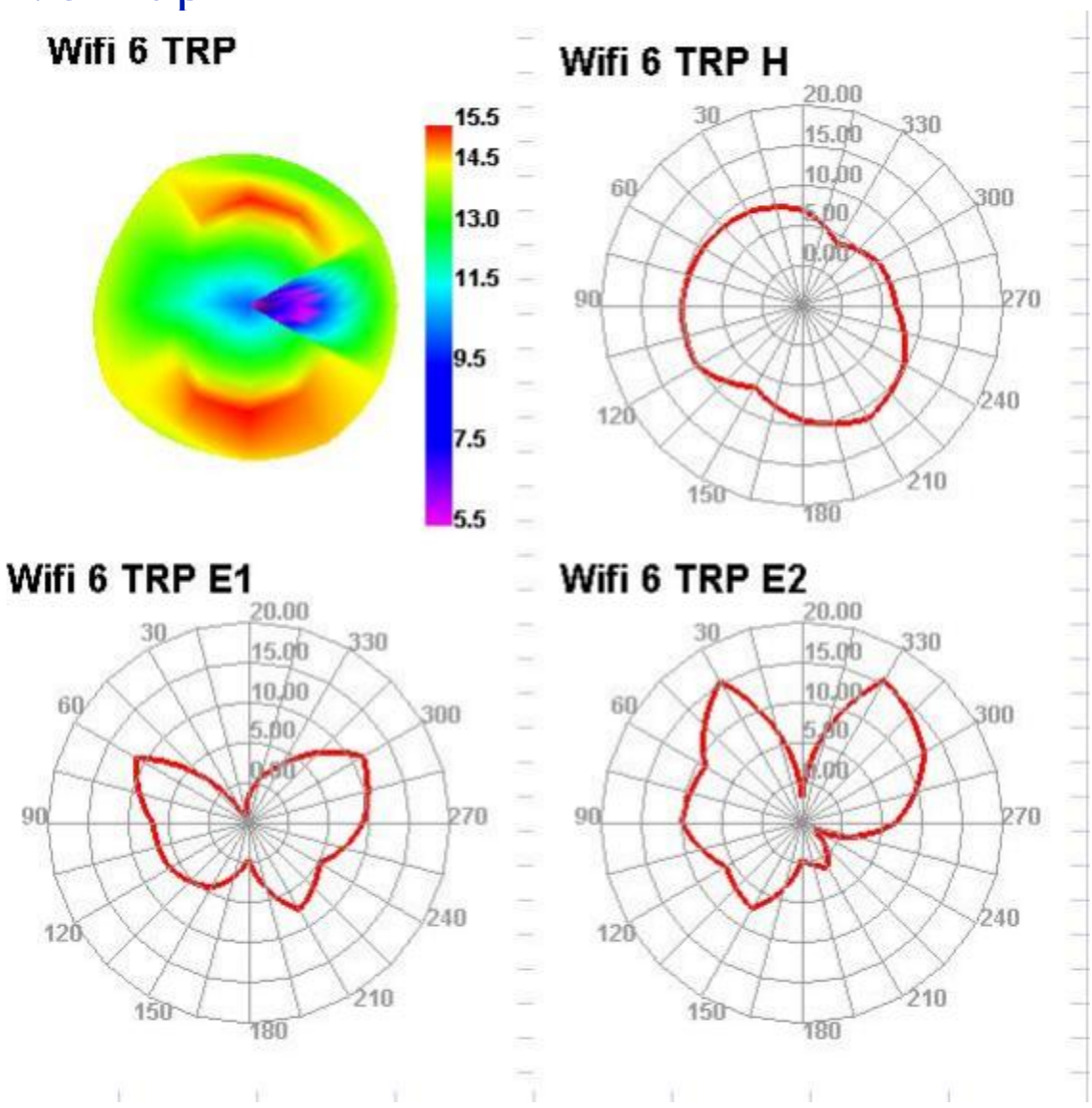
VI11b. Active map



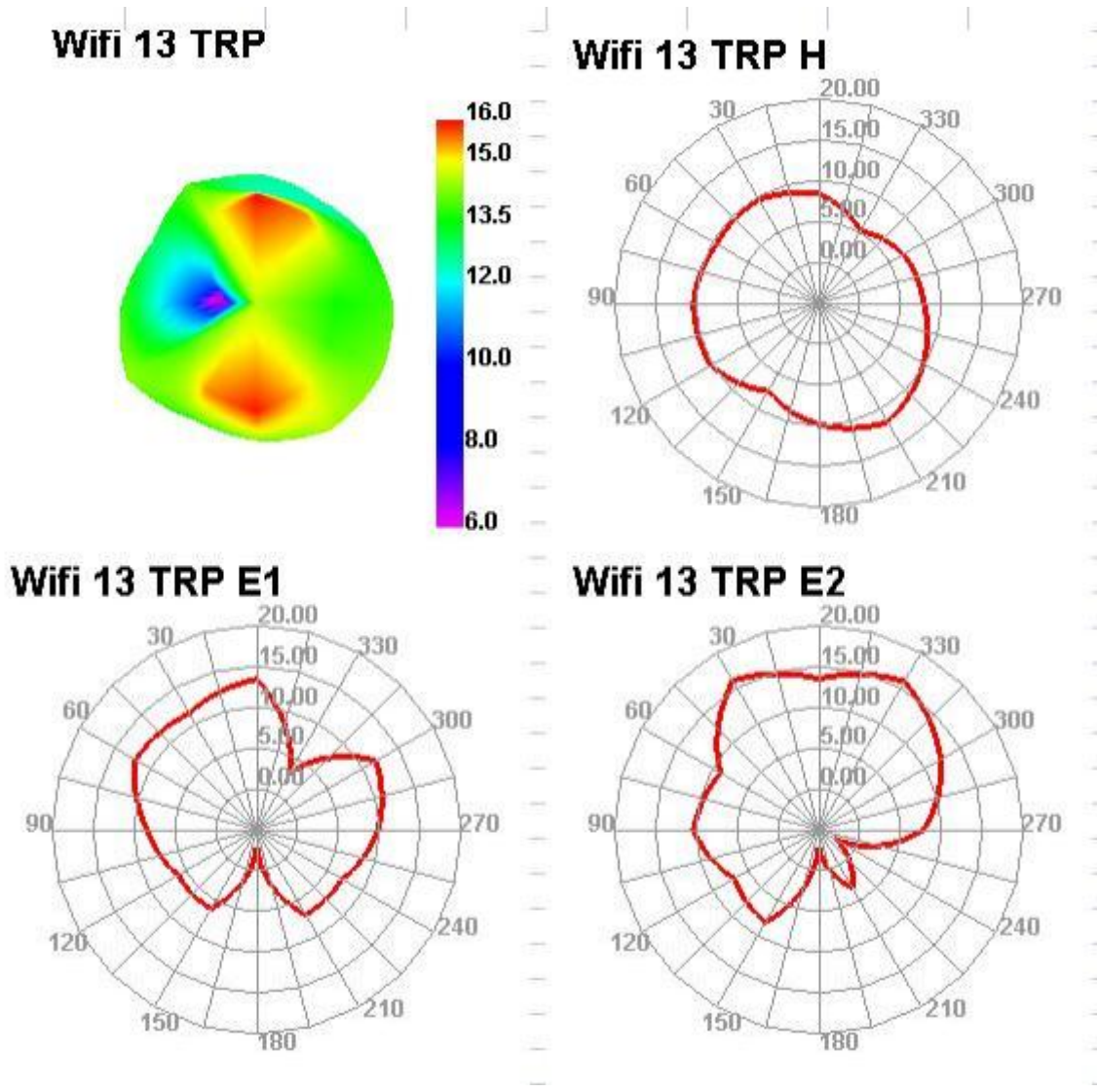
VII11g. Active map



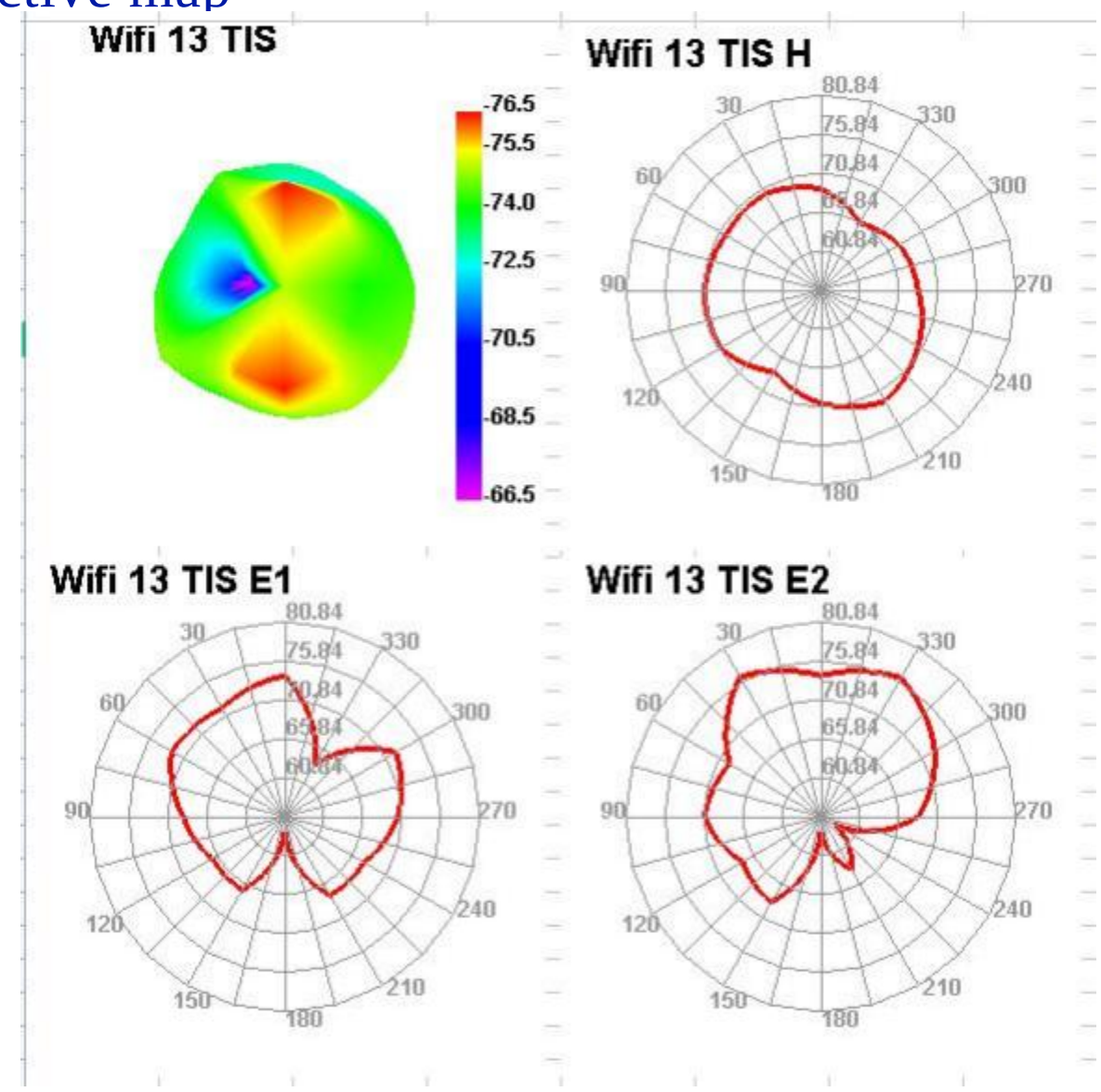
VII11g. Active map



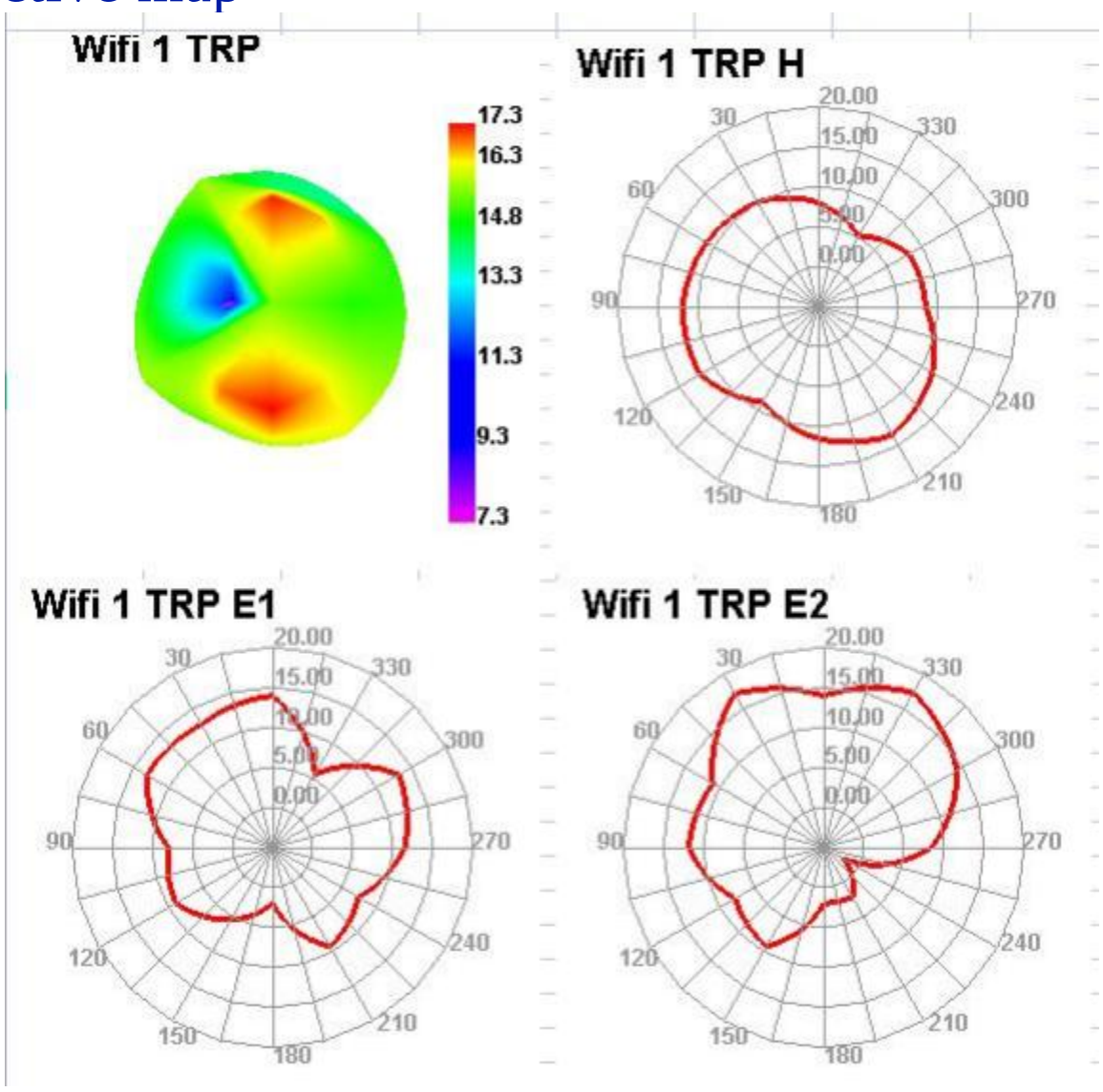
VII11g. Active map



VII11g. Active map



VIII11n. Active map



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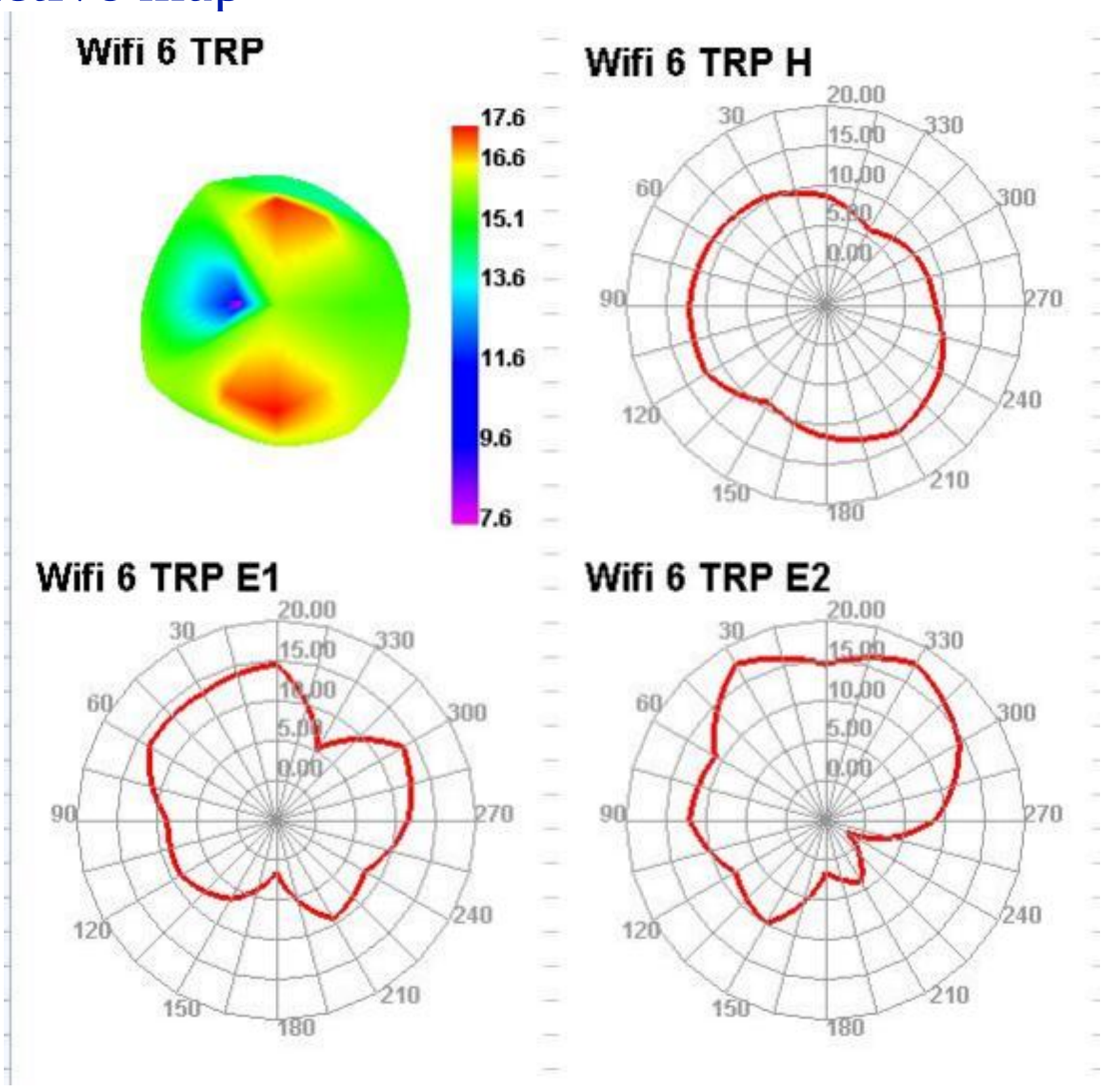

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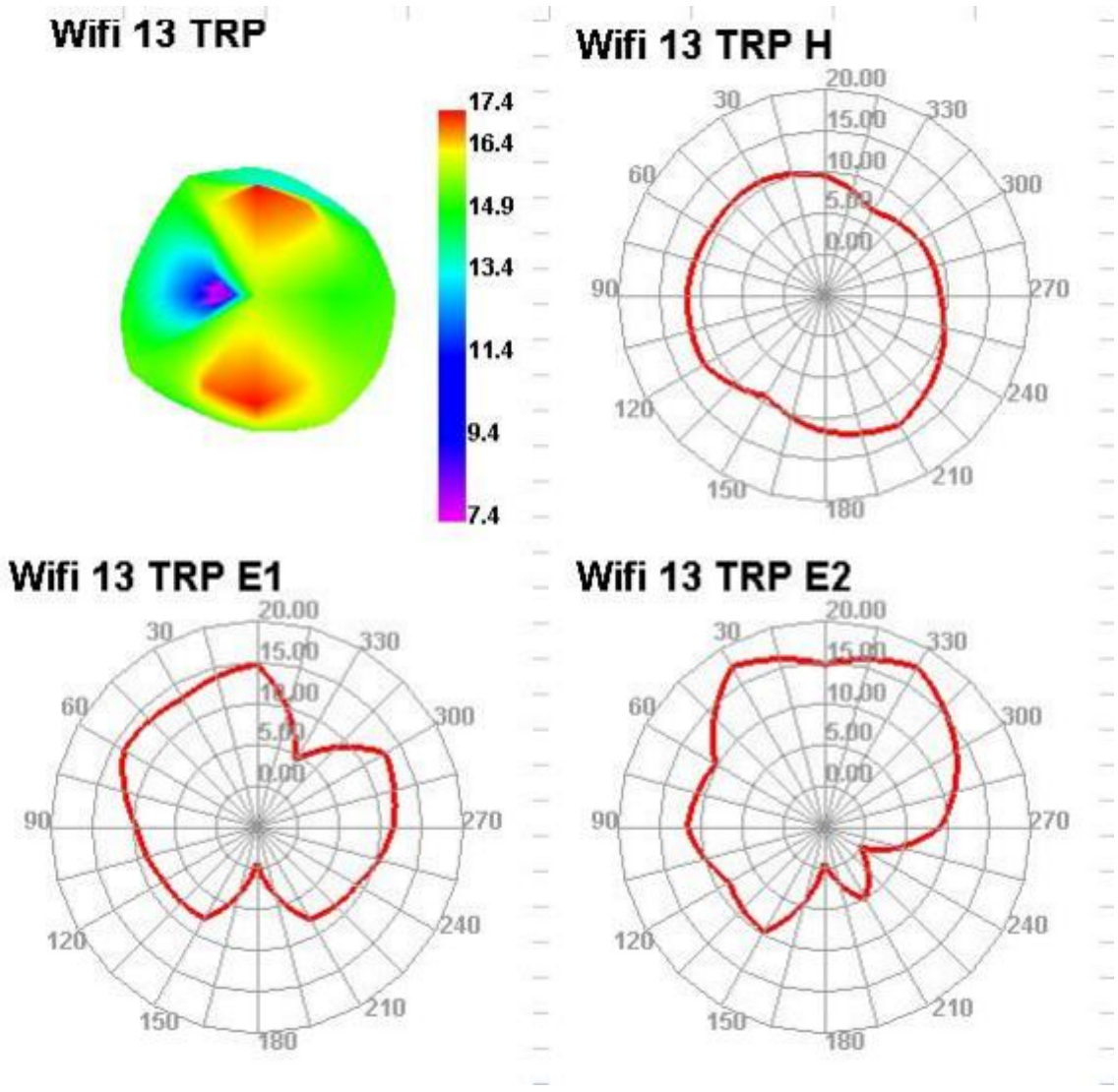

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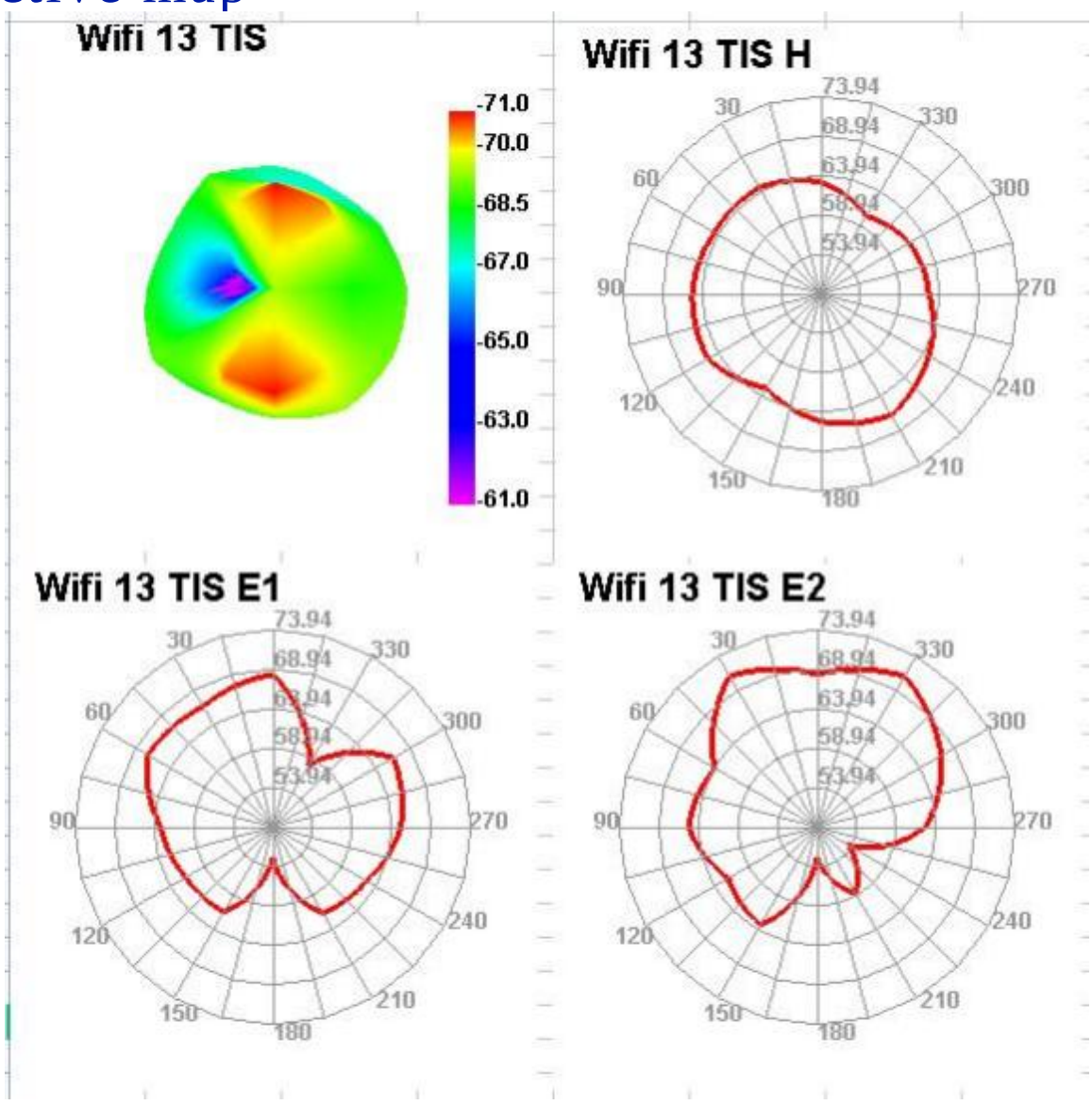

IX. Remark

X. Antenna manufacturer

corporate name: ShenzhenHaotiancheng Wireless Technology Co., Ltd

Company address: Building B, Building 505, XinleiOu Electronics Factory, Zone 71, Xingdong Community, Xin'an Street, Bao'an District, Shenzhen City, China