

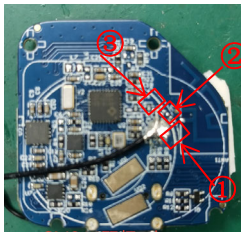
ANTENNA TEST REPORT

产品名称	CM916
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Summary

ITEM	SPEC.
Model Name	BT 2.4 GHz
MAX. GAIN	-2.12dBi
Polarization	Horizontal
Impedance	50 Ω
Antenna Type	PCB 板载天线
Manufacturer	

Antenna Photo & Length (mm)



位号	①	②	③
数值	NC	0 Ω	NC

电性能测试结果

天线指标

序号	检验项目	单位	性能指标要求	检验结果		判 决
1	频率范围	MHz	2412-2483	2400-2483		OK
2	增 益	dBi	/	2400	-2. 12	
				2440	-2. 19	
				2480	- . 36	
4	回波损耗	dB	≤ -10	2400	-4. 50	
				2440	-11. 89	
				2480	-13. 58	
4	驻波比	dB	/	2400	3. 96	
				2440	1. 68	
				2480	1. 53	

回波损耗 Log Mag S11

The screenshot shows a VNA software interface with the following components:

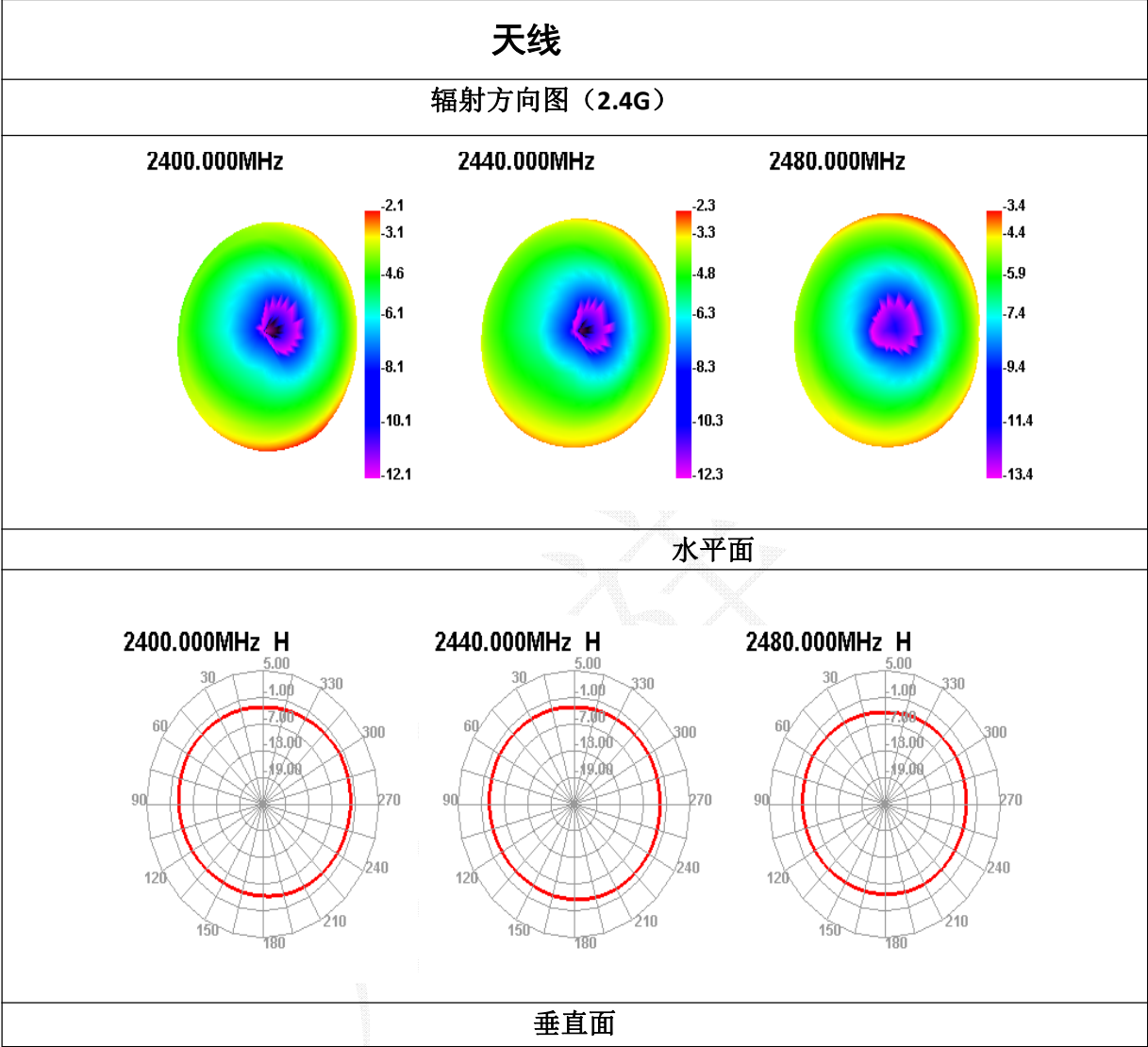
- Top Bar:** Labels for "天线" (Antenna), "频率-MHz" (Frequency-MHz), and "2400-2500".
- Menu Bar:** 1 Active Ch/Trace, 2 Response, 3 Stimulus, 4 Mts/Analysis, 5 Instr State.
- Left Panel:**
 - Trace 1: S11, Log Mag, 10.0 dB, Ref: 0.000 dB, F1.
 - Trace 2: S11, Smith, (W/PS) Scale: 5.0000, F1.
 - Table:

	1	2	3	4	5
Freq	2.4000000 GHz	2.4400000 GHz	2.4800000 GHz	2.5200000 GHz	2.5600000 GHz
Mag	-4.5068 dB	-11.590 dB	-11.590 dB	-11.590 dB	-11.590 dB
- Main Plot Area:**
 - Smith Chart:** A blue trace showing a resonance peak at 2.4 GHz.
 - S11 Magnitude Plot:** A yellow trace showing a corresponding dip at 2.4 GHz.
- Right Panel:**
 - Display: ON
 - Allocate Channel: ON
 - Item of Traces: 2
 - Allocate Traces: ON
 - Display Data: ON
 - Data -> Mem: ON
 - Data Math: OFF
 - Data Hold: OFF
 - Equation Editor...: OFF
 - Equation: OFF
 - Edit Title Label: OFF
 - Title Label: OFF
 - Graticule Label: ON
- Bottom Bar:**
 - Start: 2 GHz
 - Stop: 3 GHz
 - Unit: CM
 - Mean: [Button]
 - Format: [Button]
 - Date: 2025-05-16 17:43

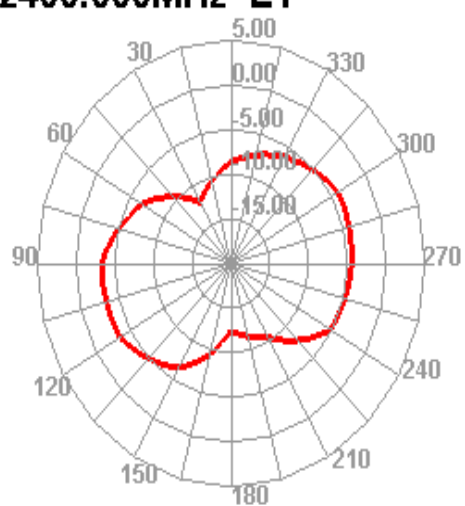
驻波比 SWR

天线	频率-MHz	2400-2500	
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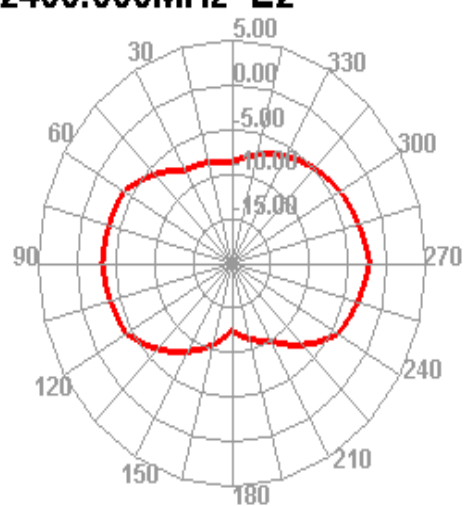
辐射参数测试



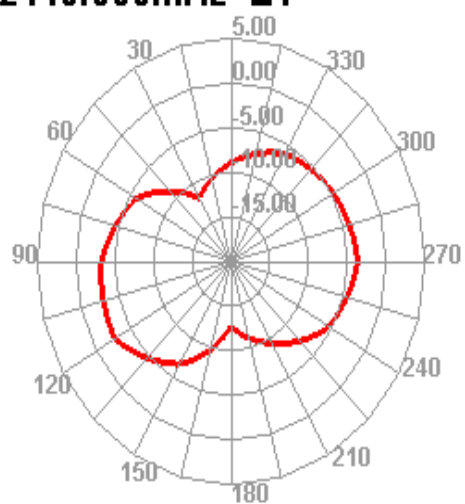
2400.000MHz E1



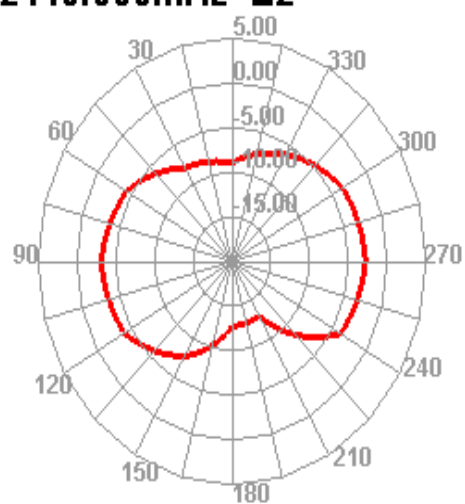
2400.000MHz E2



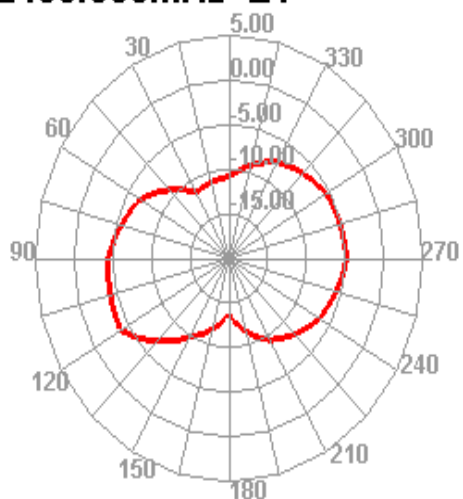
2440.000MHz E1



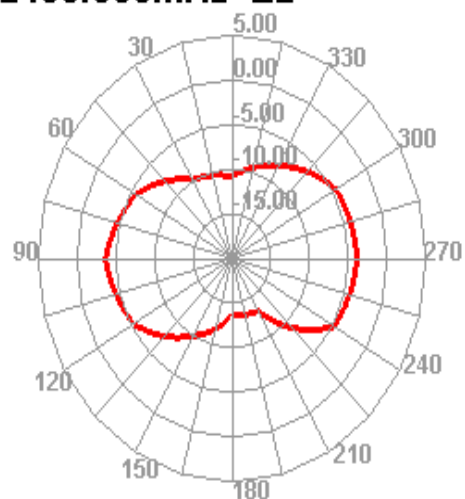
2440.000MHz E2



2480.000MHz E1



2480.000MHz E2



天线无源效率

Frequency	E Total. dB(dBi)	Efficiency(%)
2400MHz	-2.12	33.06
2410MHz	-2.19	33.86
2420MHz	-2.31	34.34
2430MHz	-2.45	33.1
2440MHz	-2.29	34.07
2450MHz	-2.31	33.38
2460MHz	-2.48	32.19
2470MHz	-2.81	29.86
2480MHz	-3.36	26.35
2490MHz	-2.58	31.82
2500MHz	-3.32	27.18