

1. Antenna Information

Product Model	VC-X01E
Antenna Model	VCX01-Zigbee
Antenna Type	FPC
Manufacturer	Lumi United Technology Co., Ltd

2. Antenna Picture



3. Electrical Specification

Frequency Range	2400MHZ-2500 MHZ
Bandwidth	100MHz
Input Impedence	50Ω
S11	≤-10 dB
Peak Gain	3.08dBi

4. Antenna S11

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]

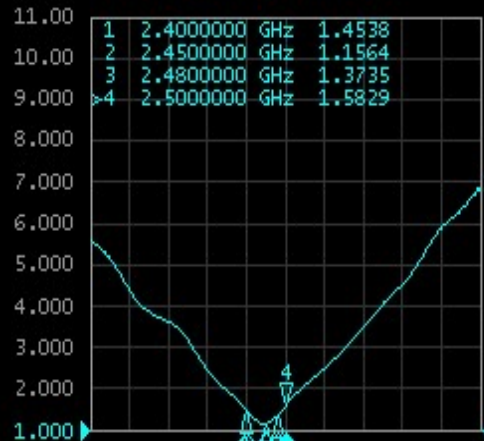


Tr3 S11 Smith (R+jX) Scale 1.000U [F2]

1	2.4000000 GHz	54.461 Ω	19.127 Ω	1.2684 nH
2	2.4500000 GHz	55.334 Ω	-5.4854 Ω	11.843 pF
3	2.4800000 GHz	45.290 Ω	-14.415 Ω	4.4521 pF
>4	2.5000000 GHz	37.678 Ω	-15.894 Ω	4.0055 pF



Tr2 S11 SWR 1.000/ Ref 1.000 [F2]



System

Print

Abort Printing

Printer Setup...

Invert Image

ON

Dump

Screen Image...

87050/75 Setup ▶

Misc Setup ▶

Backlight

ON

Firmware

Revision

1 Start 2 GHz

IFBW 30 kHz

Stop 3 GHz

PExt Cor

Hold

Stop

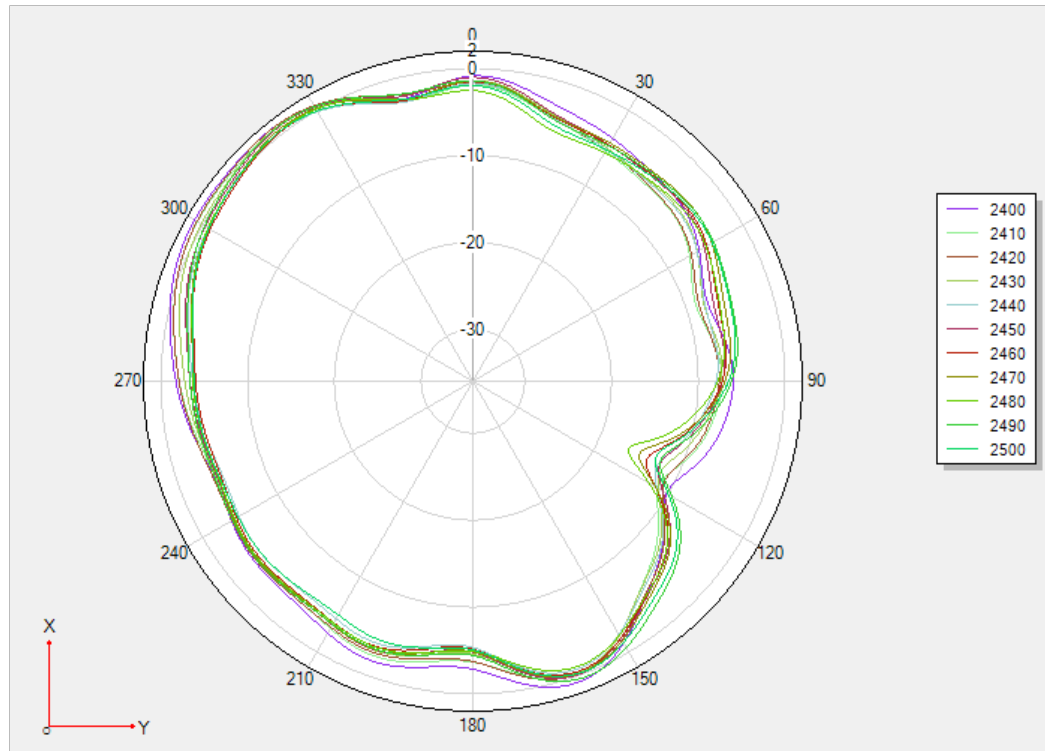
ExtRef

Svc

2024-05-13 10:28

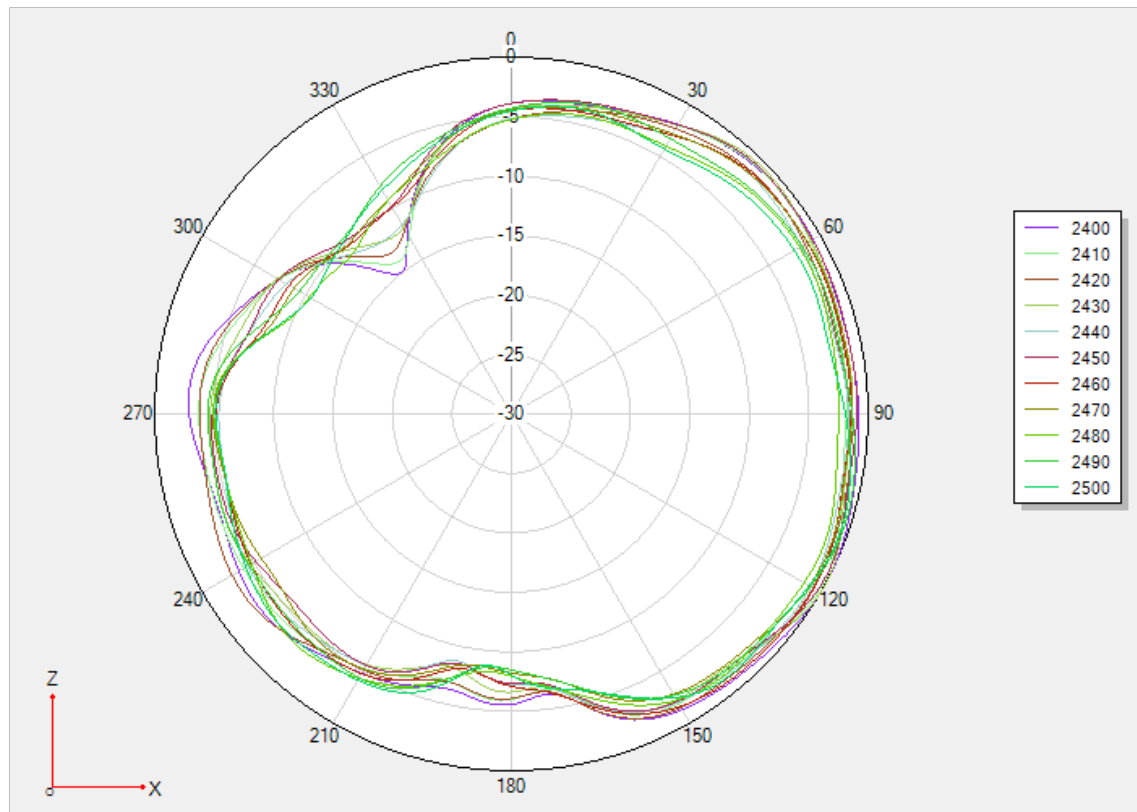
5. Radiat

H Theta=90

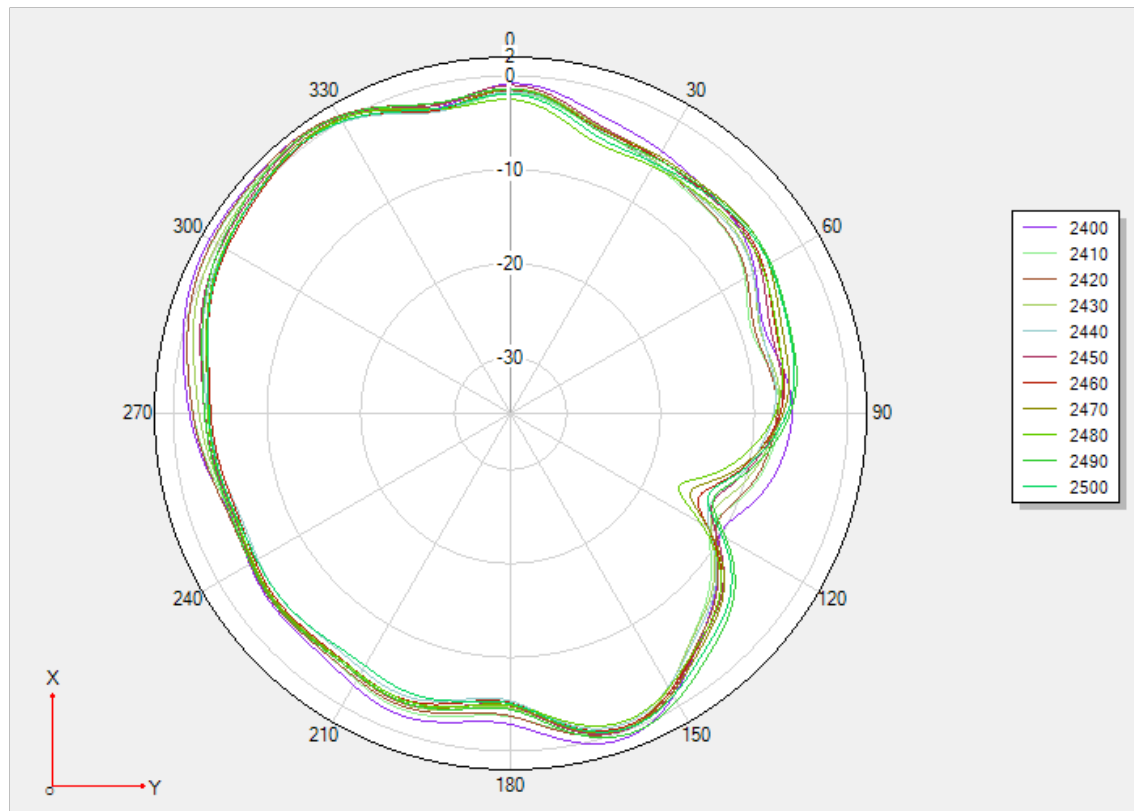


V $\Phi=0$

0



V $\Phi=90$



6. Test Results

Frequency ID	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1	2400	2.45	-2.83	52.12
2	2410	2.12	-3.16	48.31
3	2420	2.82	-2.99	50.23
4	2430	2.16	-3.15	48.42
5	2440	2.41	-3.42	45.51
6	2450	2.24	-2.93	50.93
7	2460	3.08	-3.06	49.43
8	2470	2.07	-3.39	45.81
9	2480	3.03	-3.5	44.67
10	2490	2.14	-3.05	49.55
11	2500	2.94	-3.37	46.03