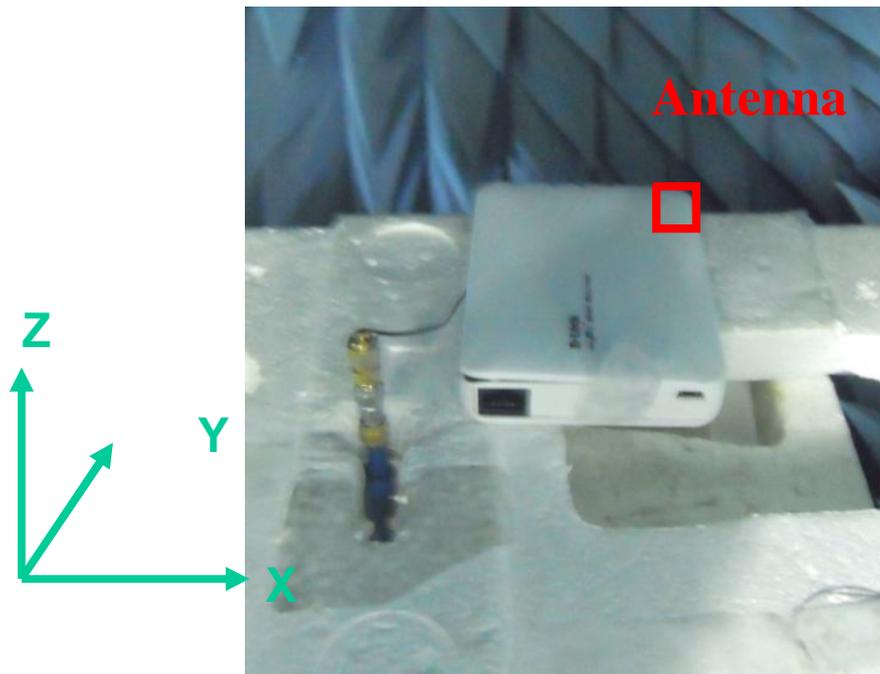


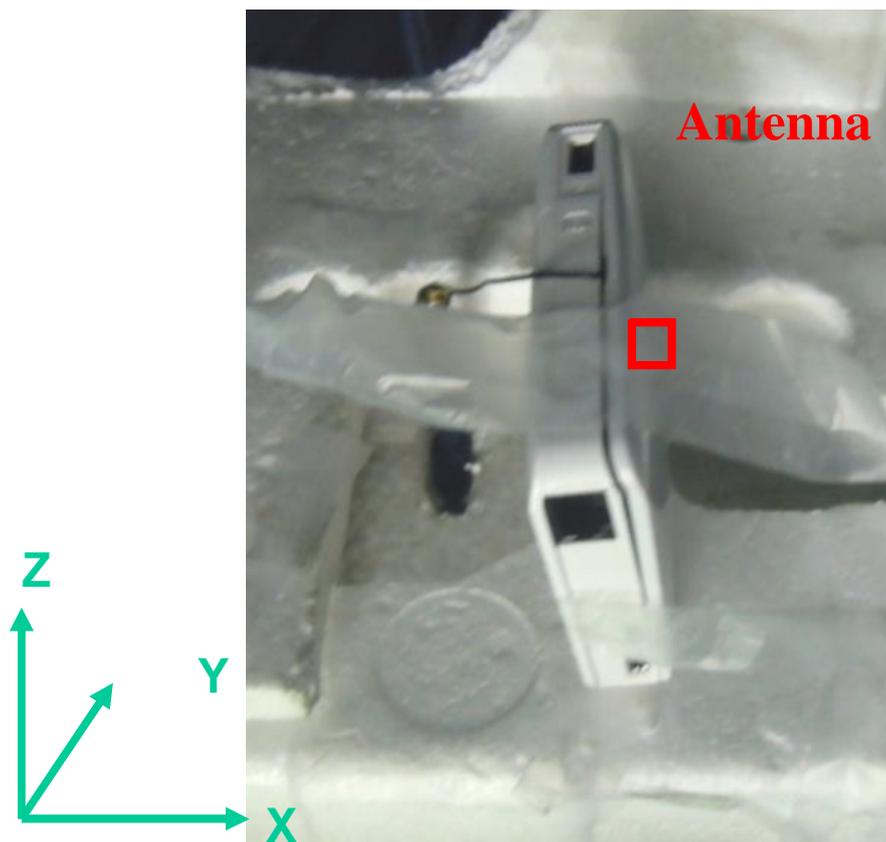
天線製造商	天線類型	天線增益•
MAG. LAYERS SCIENTIFIC-TECHNICS CO., LTD	PIFA Antenna	2.54 dBi

1. Experimental setup

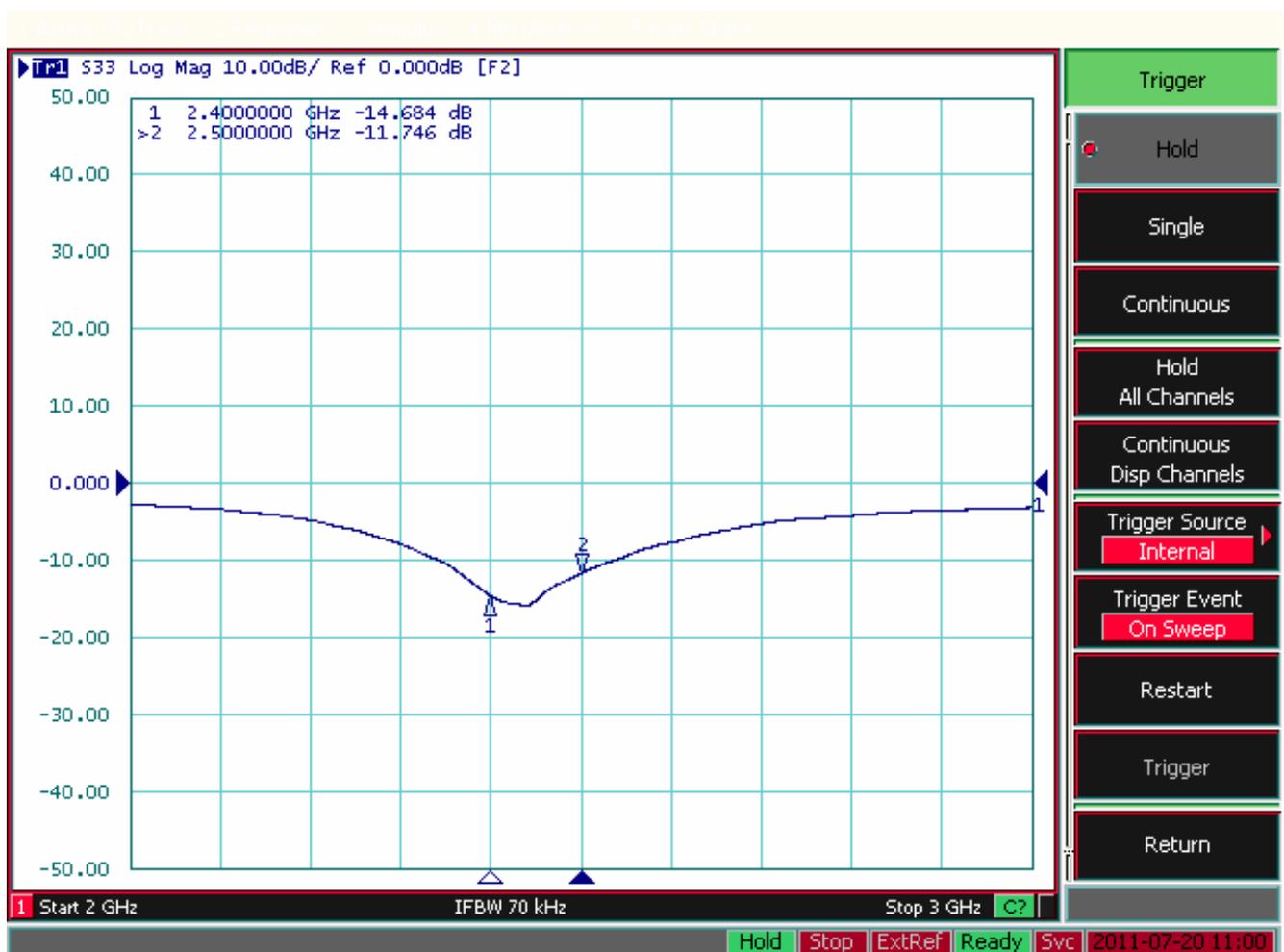
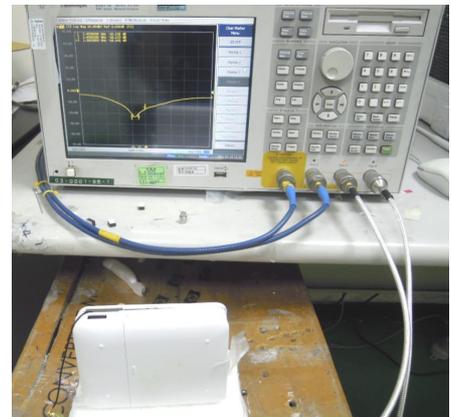
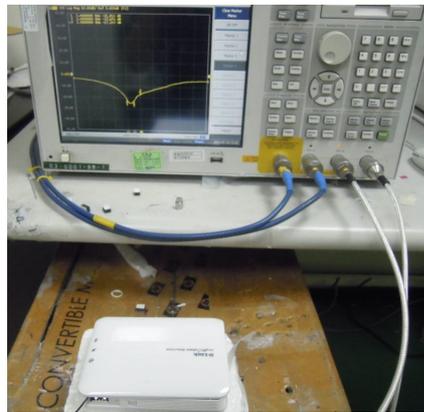
(H)



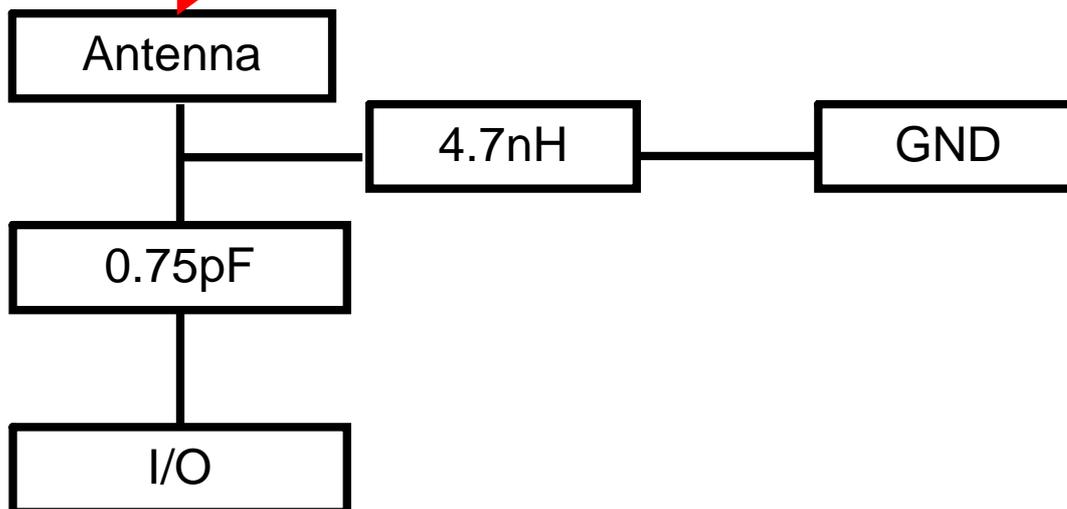
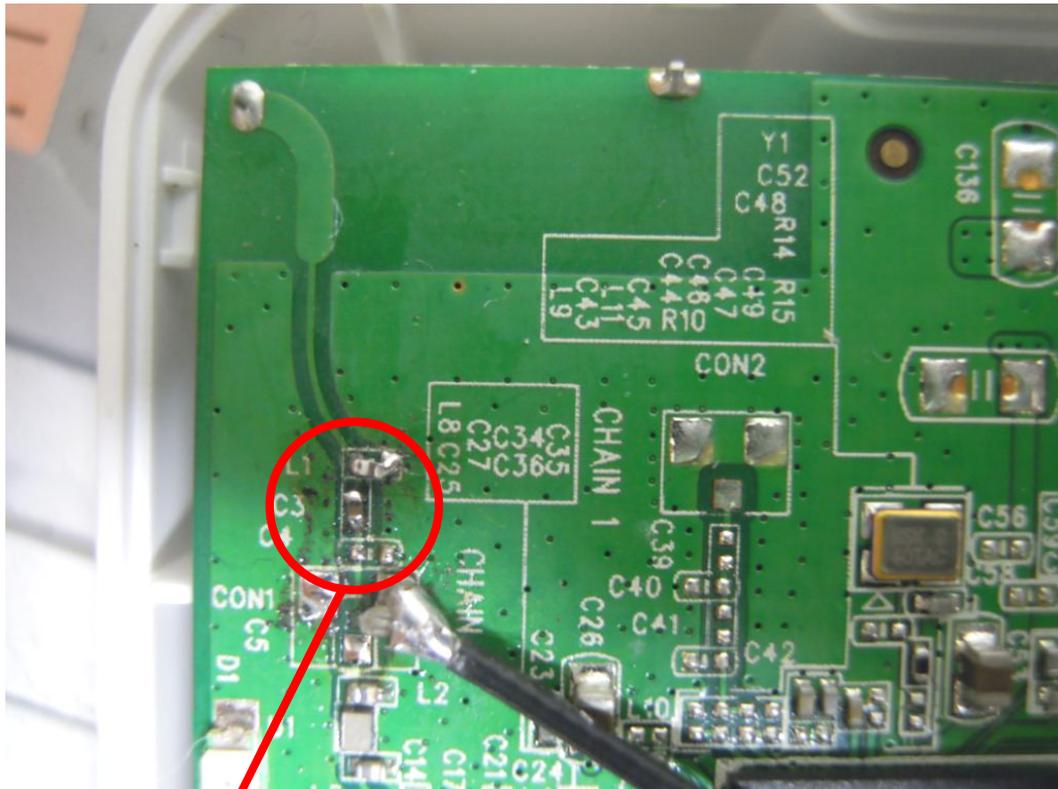
(V)



2. Return loss



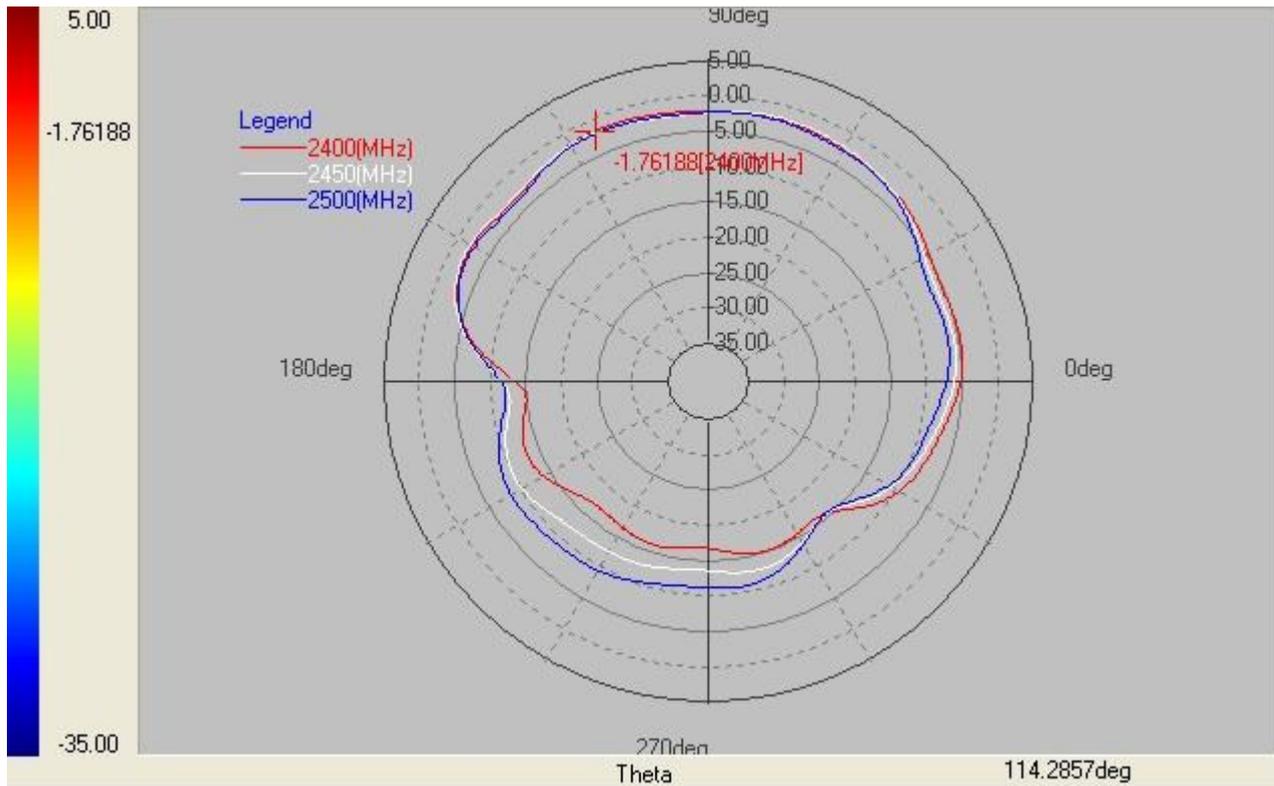
3. Antenna matching circuit diagram



4.0 Radiation pattern (H)

▲ Phi=0.00deg

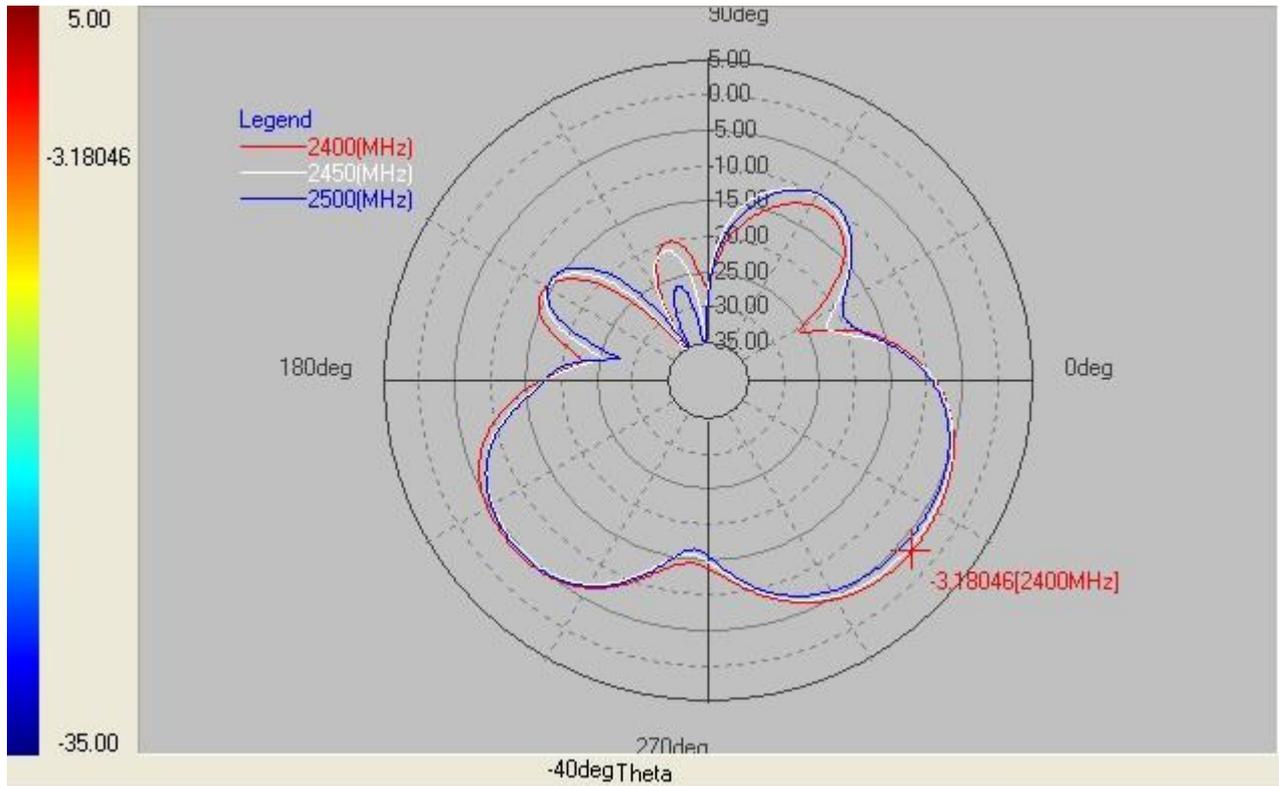
Gain Phi. dB



Layer	Max value	Average
2400(MHz)	-1.76	-5.71
2450(MHz)	-1.95	-5.65
2500(MHz)	-2.10	-5.83

▲ Phi=0.00deg

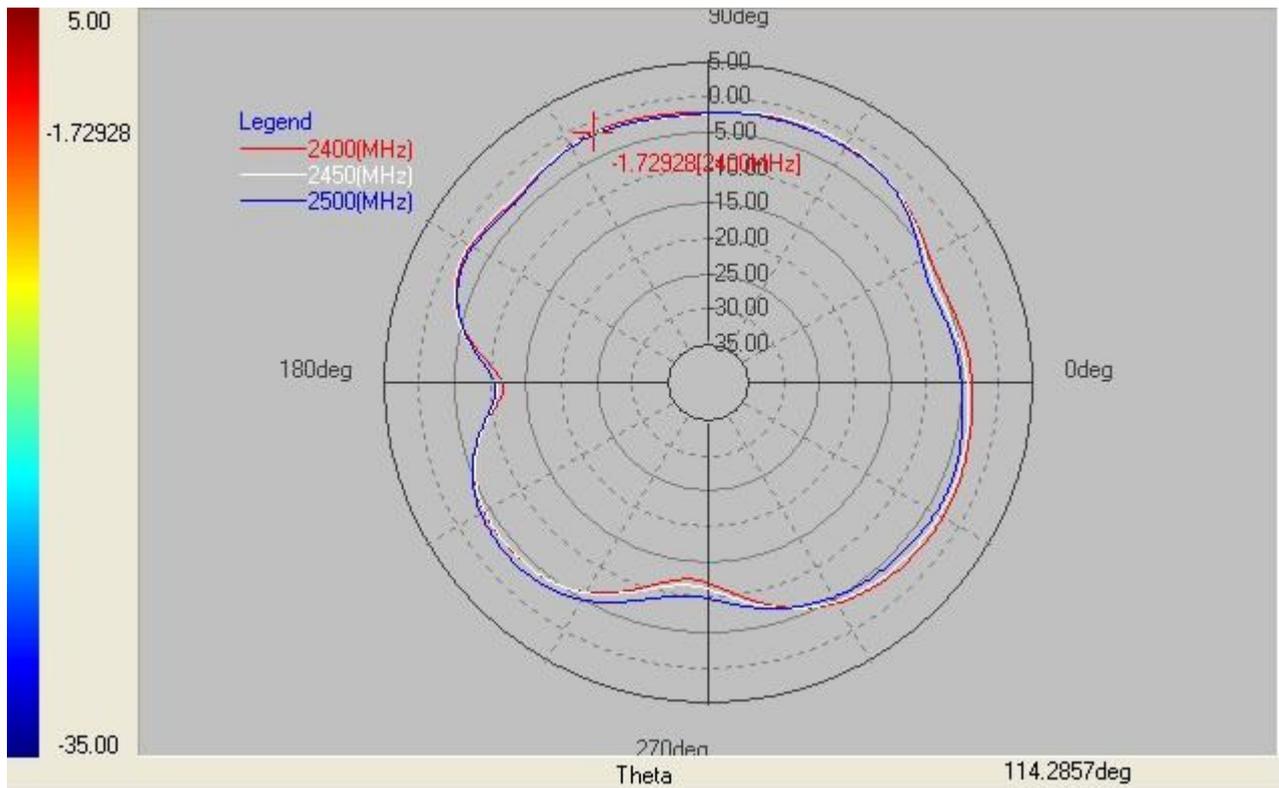
Gain Theta. dB



Layer	Max value	Average
2400(MHz)	-3.18	-8.72
2450(MHz)	-3.74	-9.13
2500(MHz)	-4.51	-9.42

▲ Phi=0.00deg

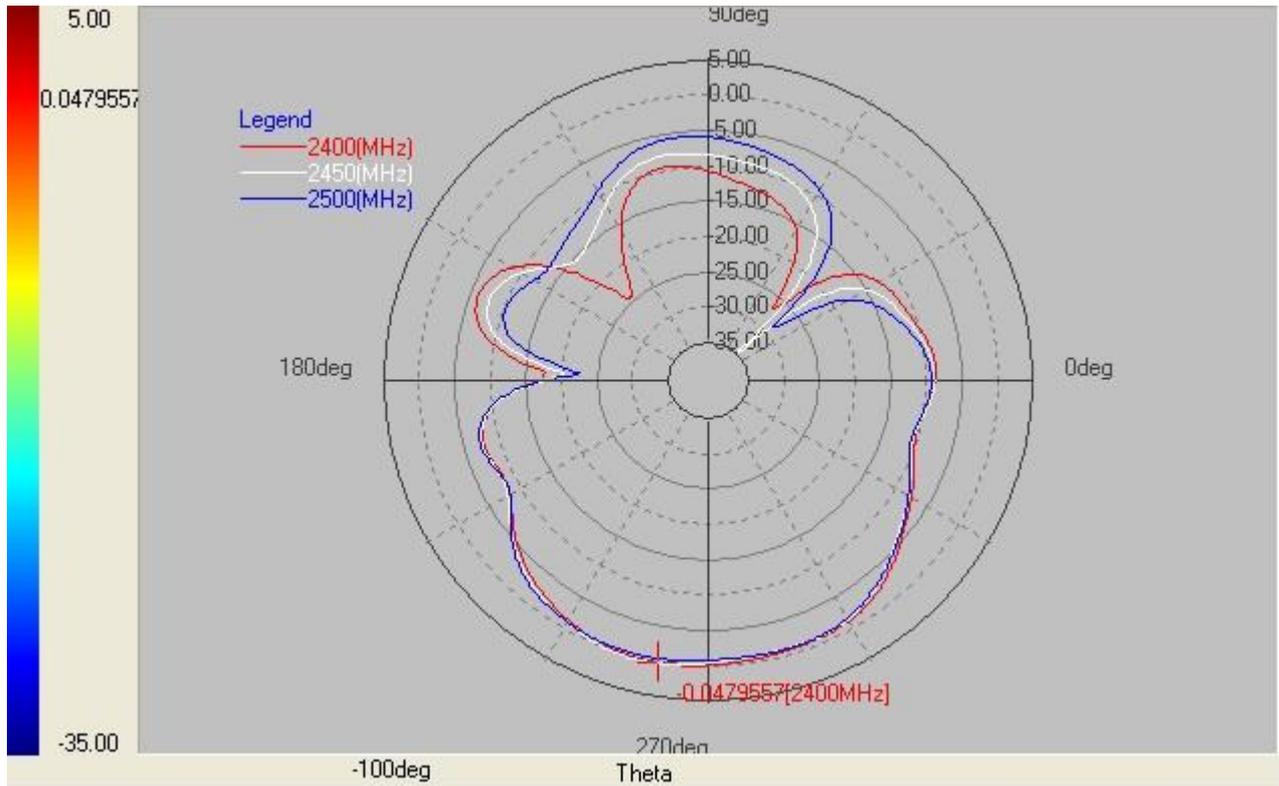
Gain . dB



Layer	Max value	Average
2400(MHz)	-1.73	-3.95
2450(MHz)	-1.59	-4.04
2500(MHz)	-2.10	-4.25

▲ Phi=90.00deg

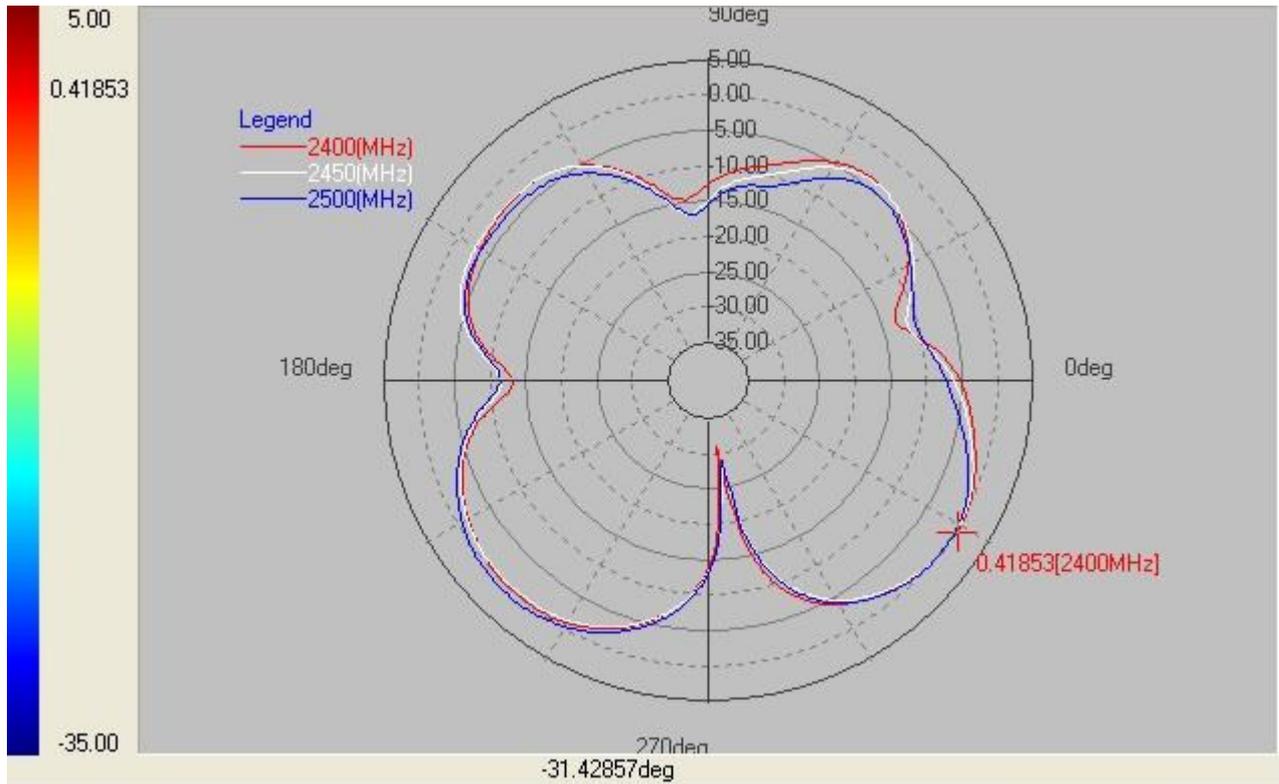
Gain Phi. dB



Layer	Max value	Average
2400(MHz)	-0.05	-5.67
2450(MHz)	0.15	-5.63
2500(MHz)	-0.52	-5.61

▲ Phi=90.00deg

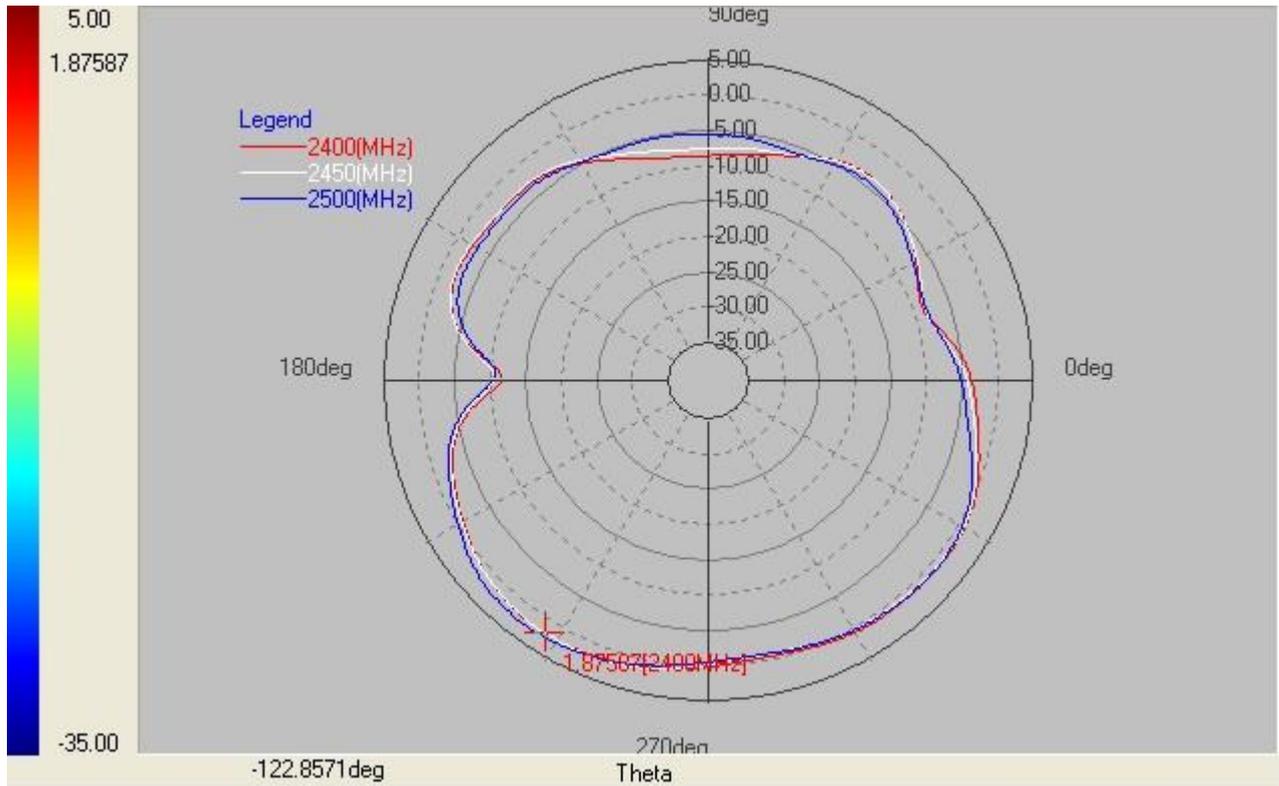
Gain Theta. dB



Layer	Max value	Average
2400(MHz)	0.42	-4.22
2450(MHz)	0.33	-4.32
2500(MHz)	0.84	-4.27

▲ Phi=90.00deg

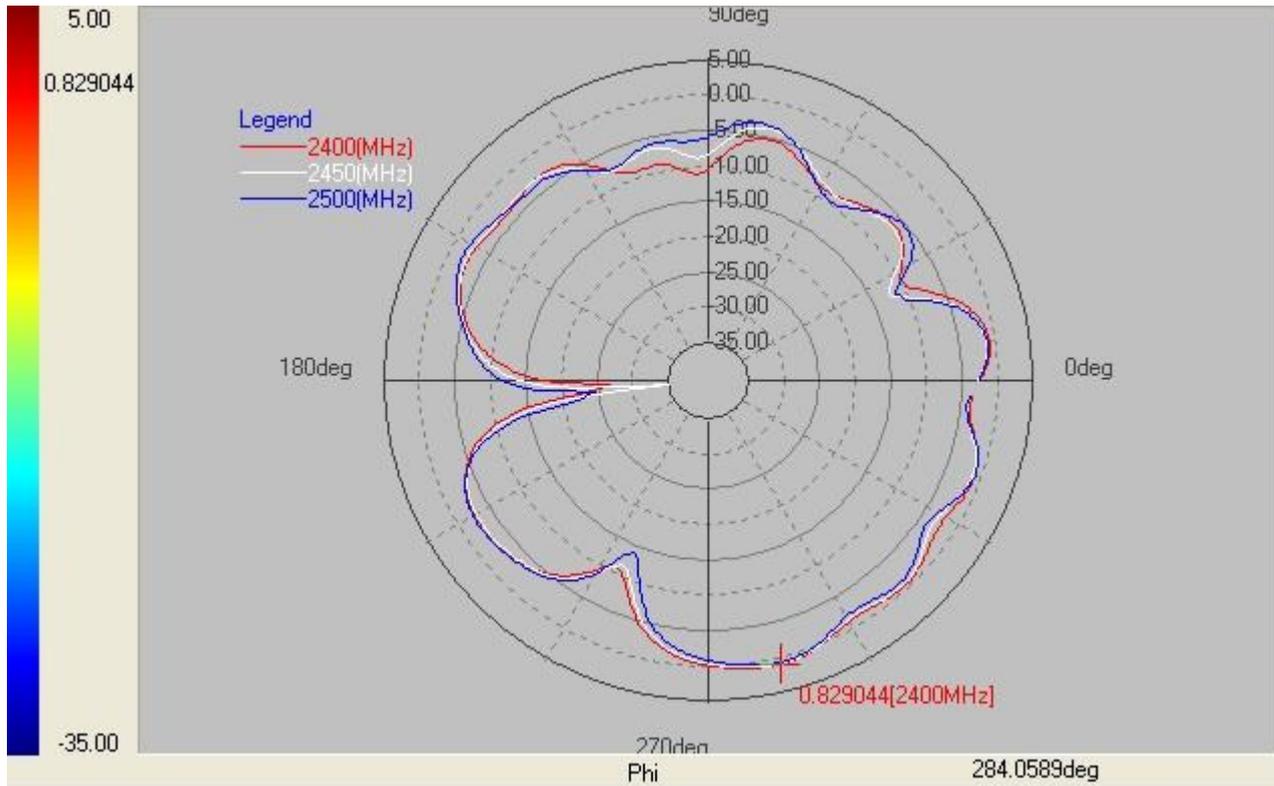
Gain . dB



Layer	Max value	Average
2400(MHz)	1.88	-1.87
2450(MHz)	1.85	-1.91
2500(MHz)	2.54	-1.87

▲ Theta=90.00deg

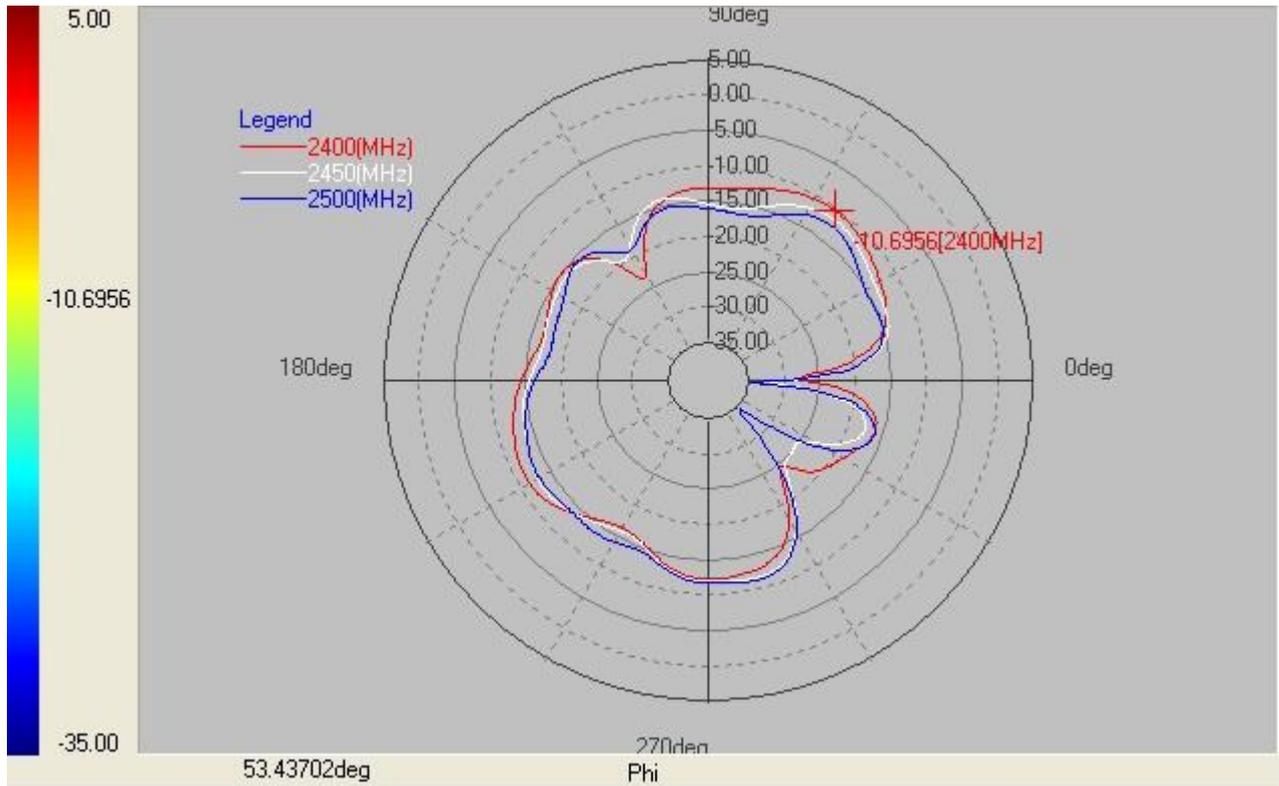
Gain Phi. dB



Layer	Max value	Average
2400(MHz)	0.83	-3.61
2450(MHz)	0.73	-3.76
2500(MHz)	0.52	-3.78

▲ Theta=90.00deg

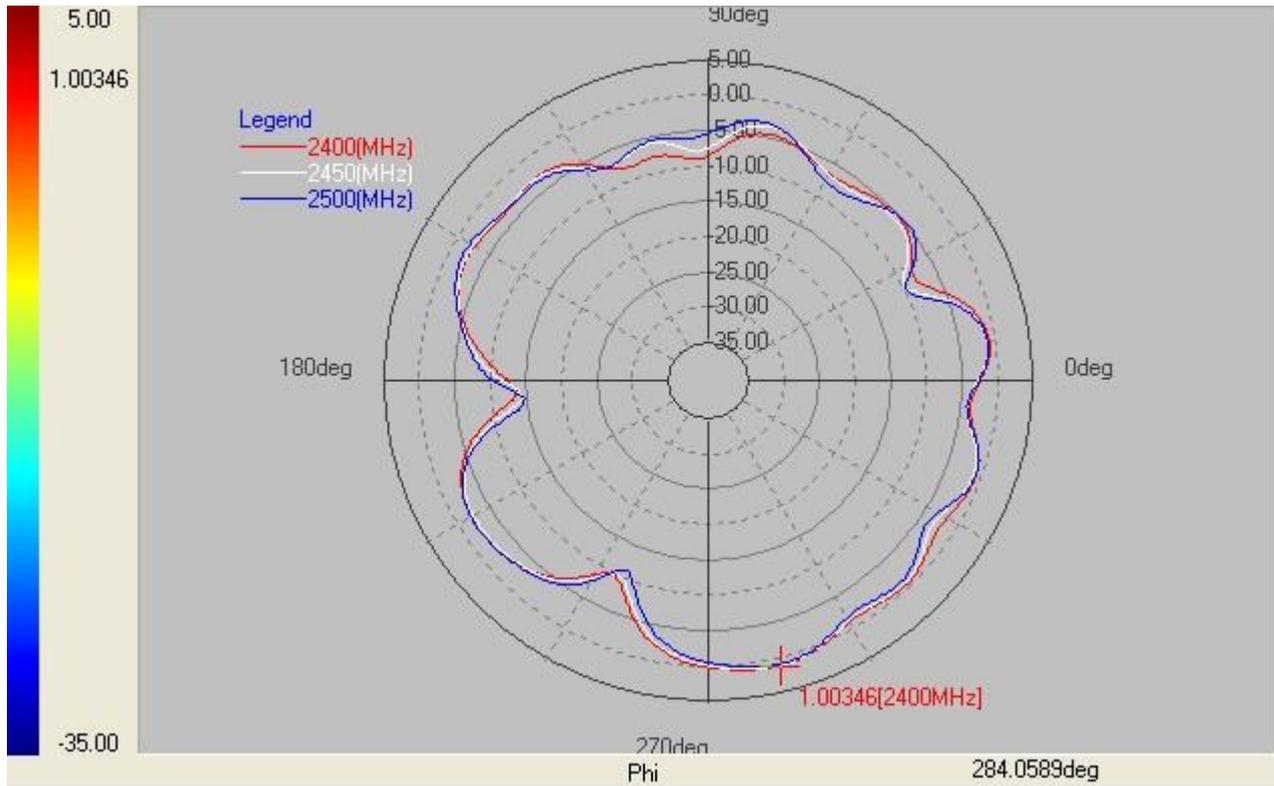
Gain Theta. dB



Layer	Max value	Average
2400(MHz)	-10.70	-14.30
2450(MHz)	-11.77	-14.90
2500(MHz)	-11.56	-15.18

▲ Theta=90.00deg

Gain . dB

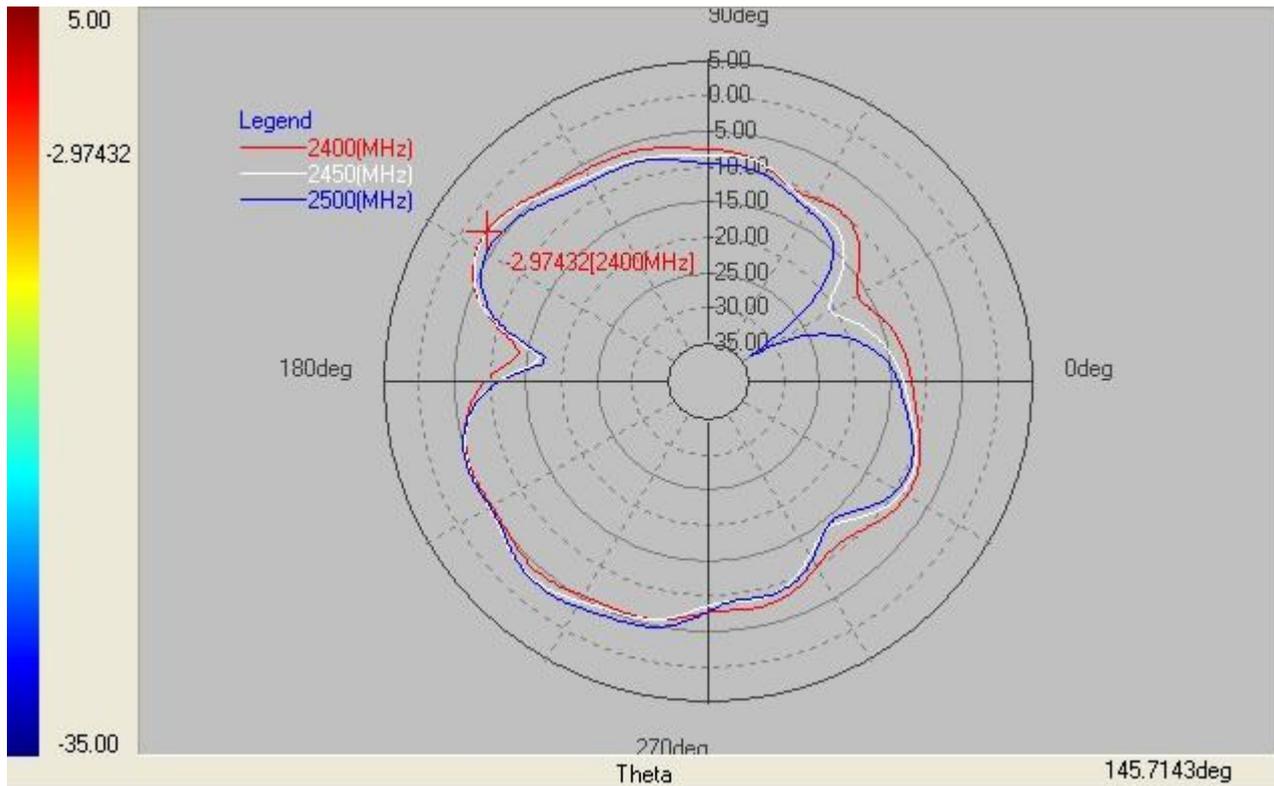


Layer	Max value	Average
2400(MHz)	1.00	-3.26
2450(MHz)	0.96	-3.43
2500(MHz)	0.78	-3.47

4.1 Radiation pattern (V)

▲ Phi=0.00deg

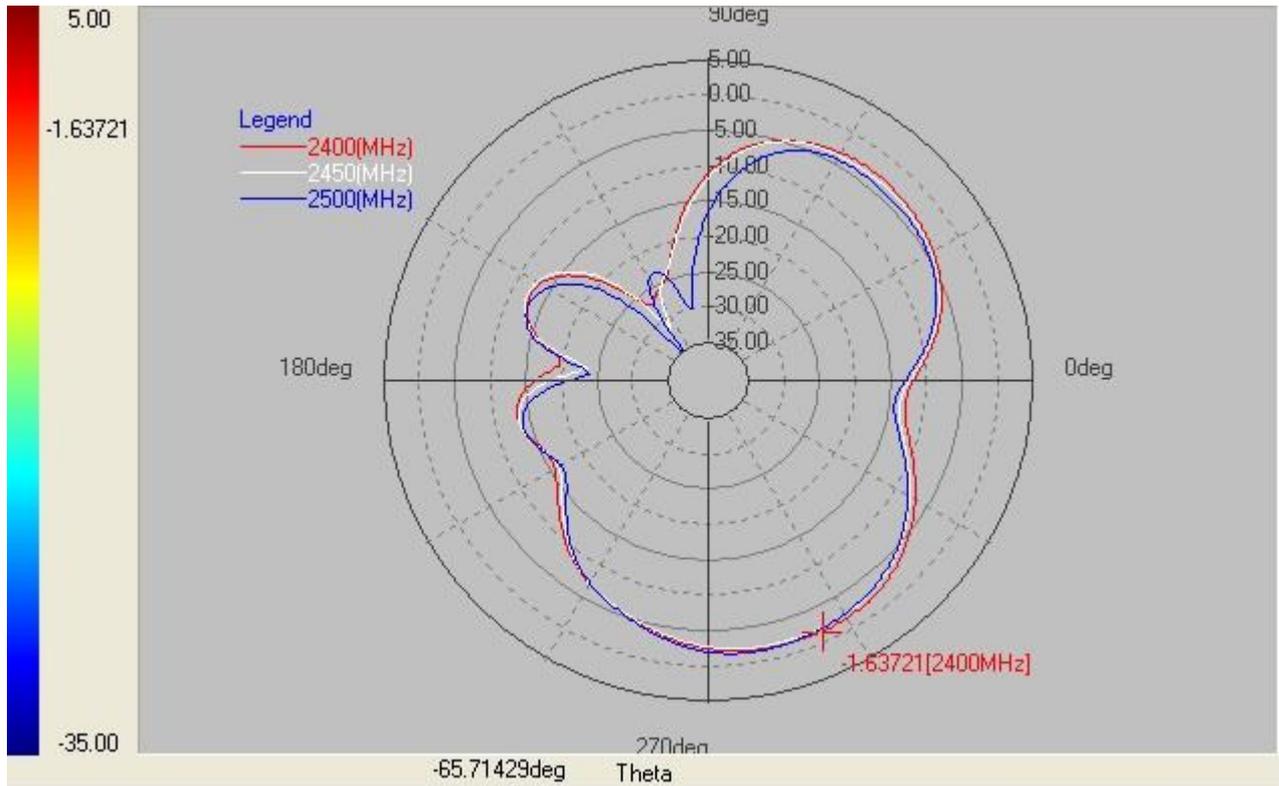
Gain Phi. dB



Layer	Max value	Average
2400(MHz)	-2.97	-7.44
2450(MHz)	-3.14	-7.75
2500(MHz)	-3.09	-8.01

▲ Phi=0.00deg

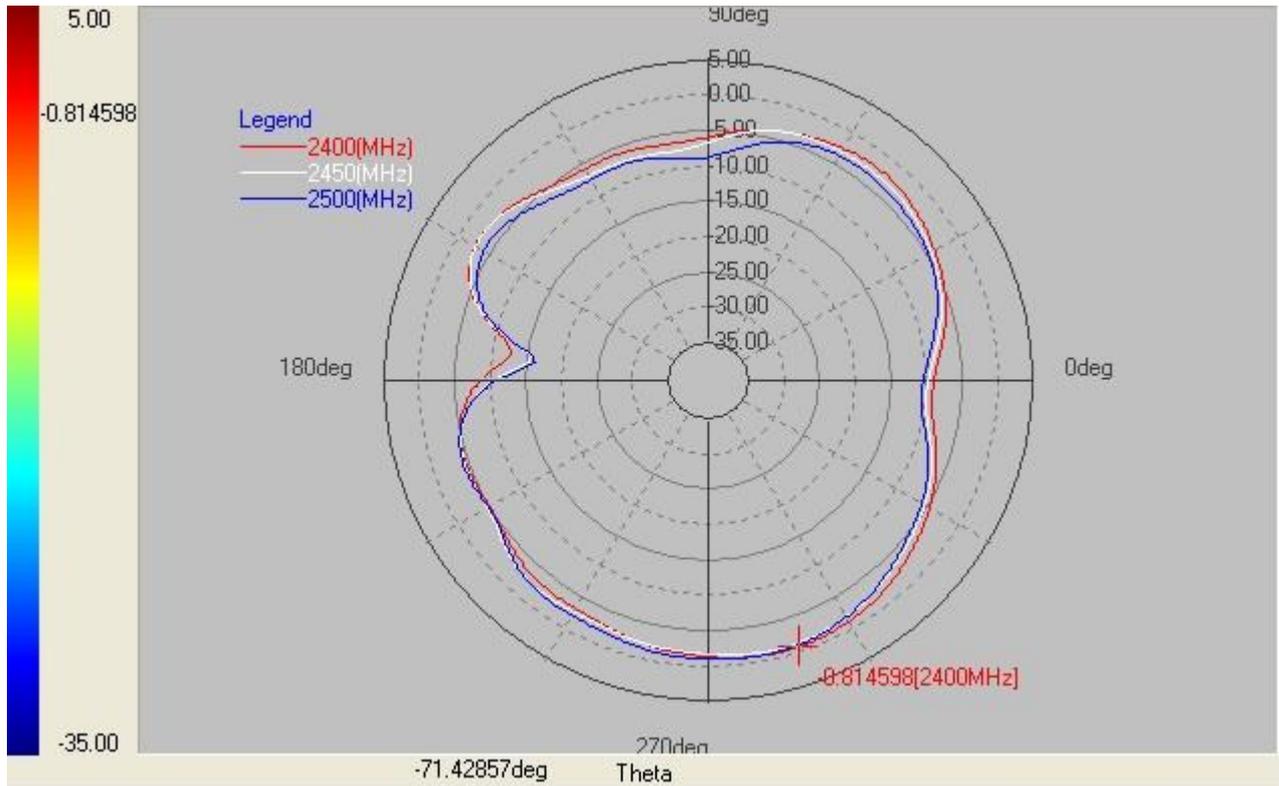
Gain Theta. dB



Layer	Max value	Average
2400(MHz)	-1.64	-6.54
2450(MHz)	-2.13	-6.98
2500(MHz)	-1.69	-7.17

▲ Phi=0.00deg

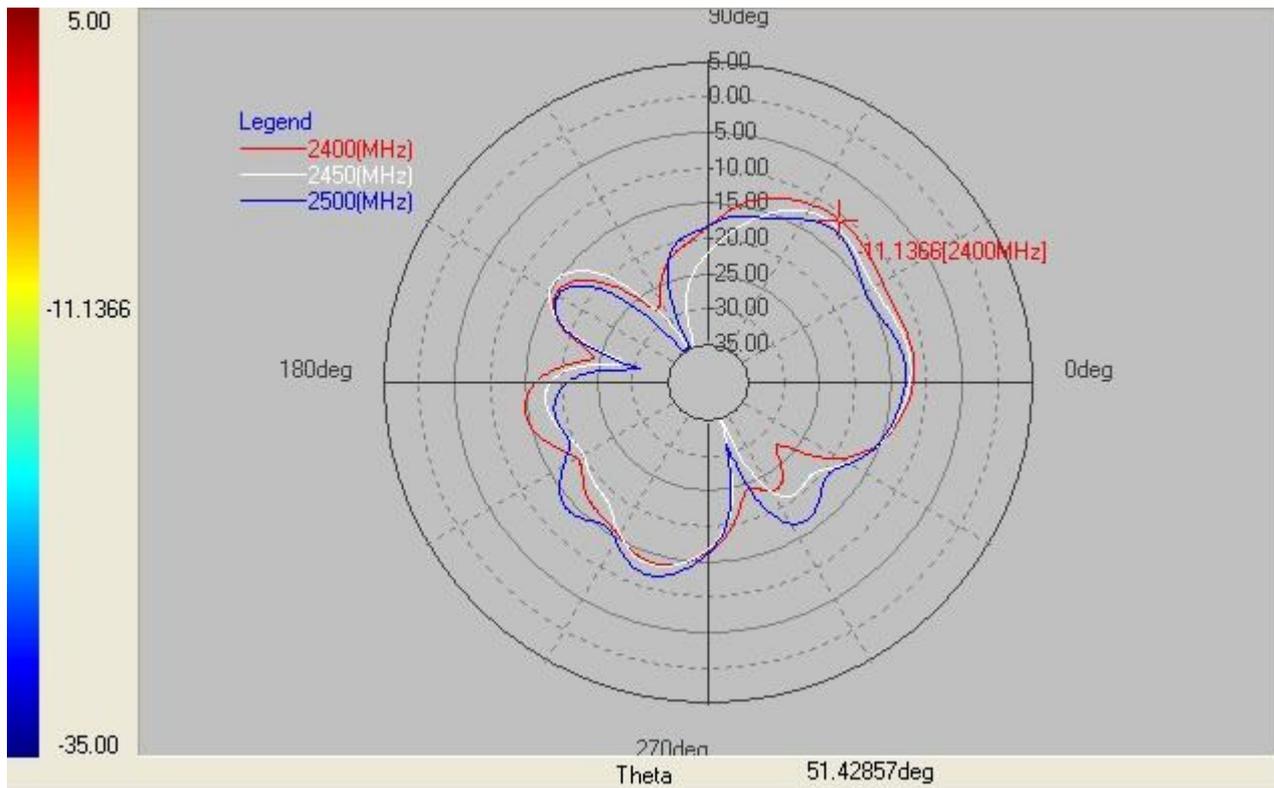
Gain . dB



Layer	Max value	Average
2400(MHz)	-0.81	-3.95
2450(MHz)	-1.35	-4.34
2500(MHz)	-0.99	-4.55

▲ Phi=90.00deg

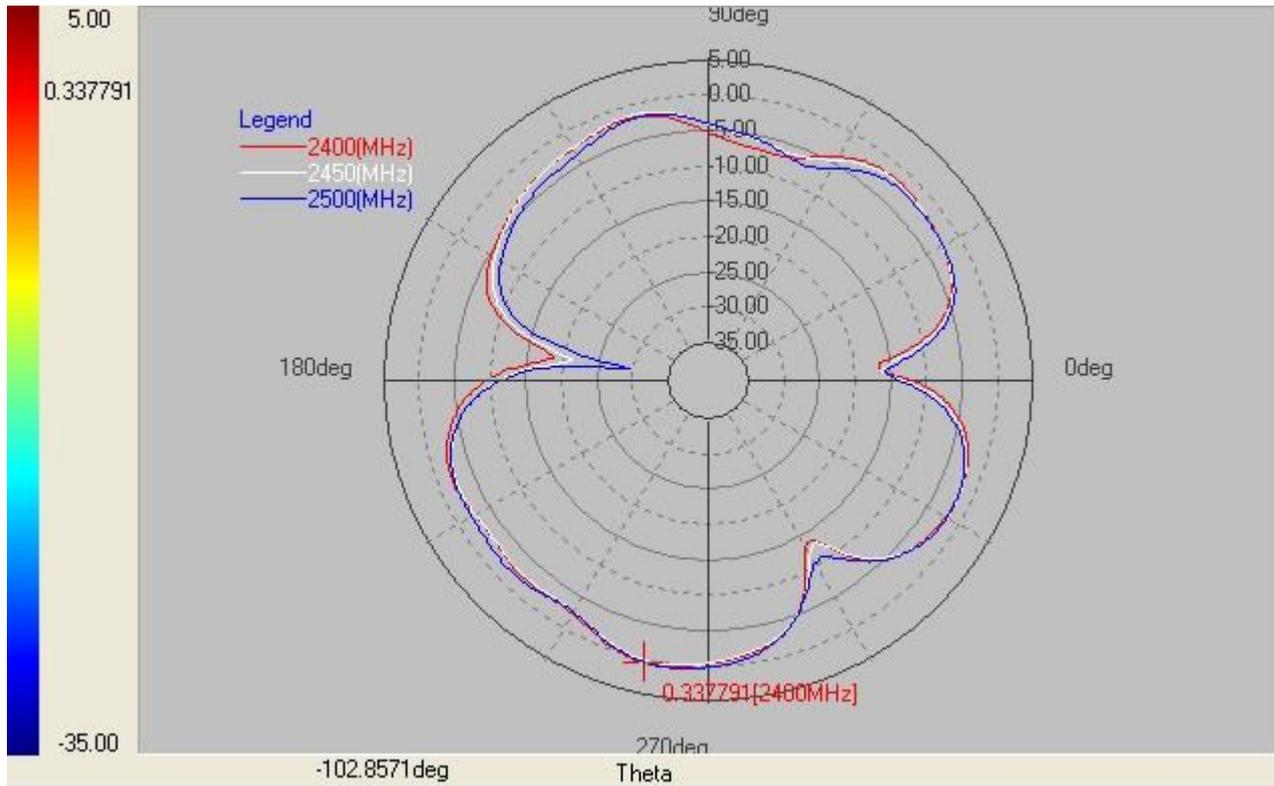
Gain Phi. dB



Layer	Max value	Average
2400(MHz)	-11.14	-15.52
2450(MHz)	-12.07	-16.40
2500(MHz)	-12.13	-16.25

▲ Phi=90.00deg

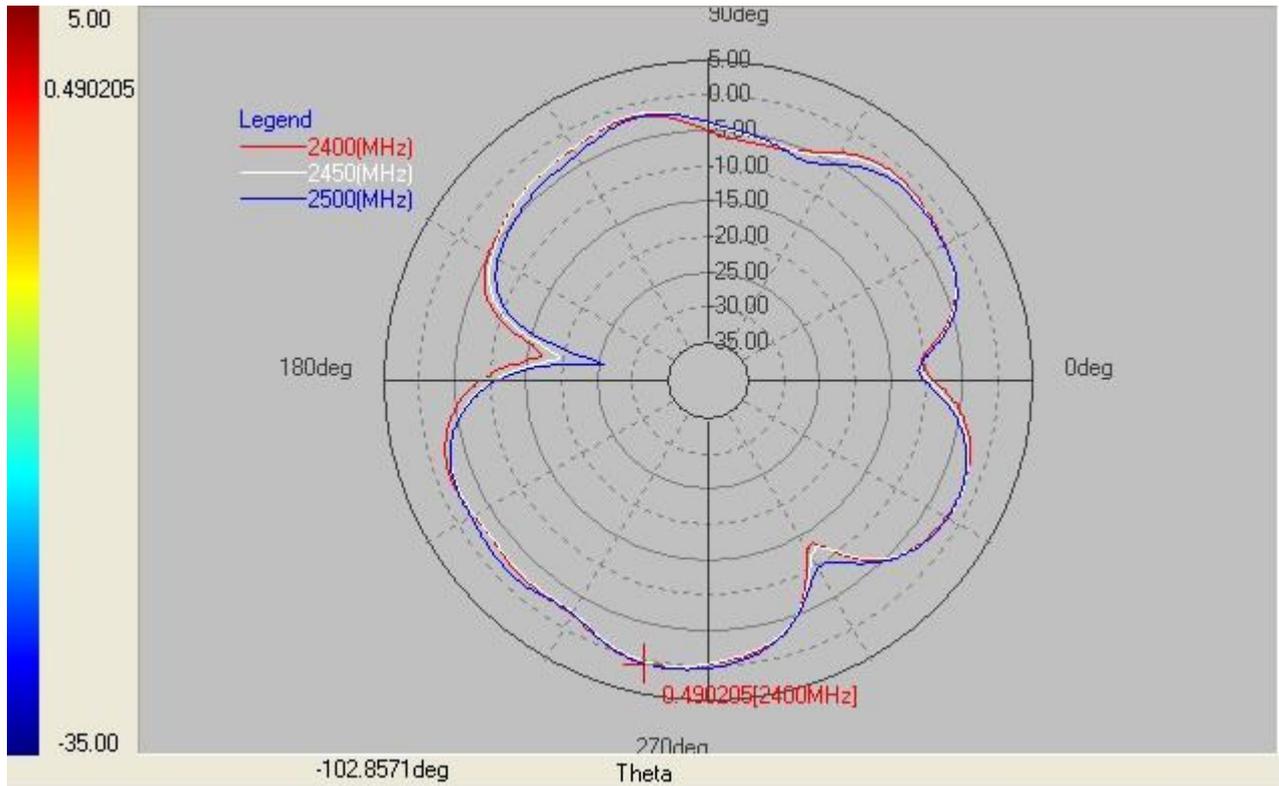
Gain Theta. dB



Layer	Max value	Average
2400(MHz)	0.34	-3.55
2450(MHz)	0.07	-3.65
2500(MHz)	0.38	-3.67

▲ Phi=90.00deg

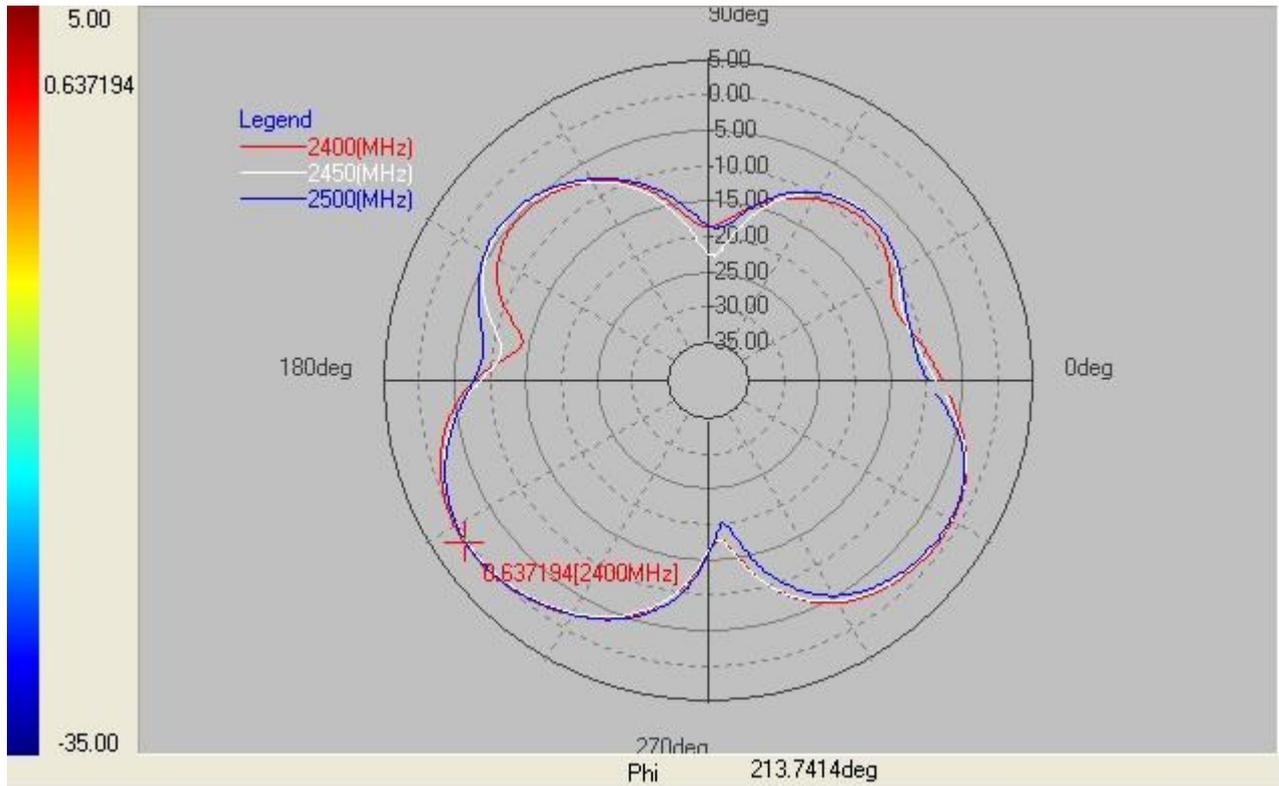
Gain . dB



Layer	Max value	Average
2400(MHz)	0.49	-3.28
2450(MHz)	0.22	-3.42
2500(MHz)	0.56	-3.43

▲ Theta=90.00deg

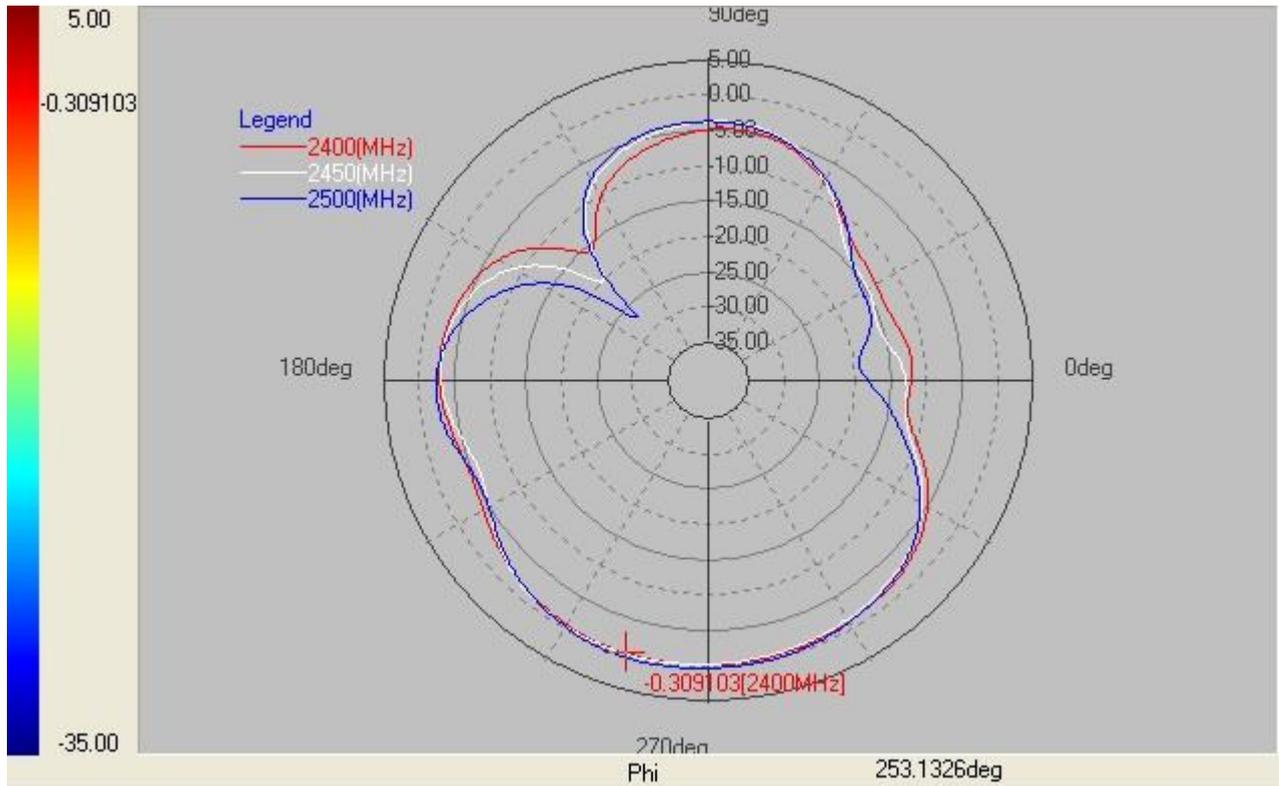
Gain Phi. dB



Layer	Max value	Average
2400(MHz)	0.64	-5.02
2450(MHz)	0.25	-5.15
2500(MHz)	0.44	-5.09

▲ Theta=90.00deg

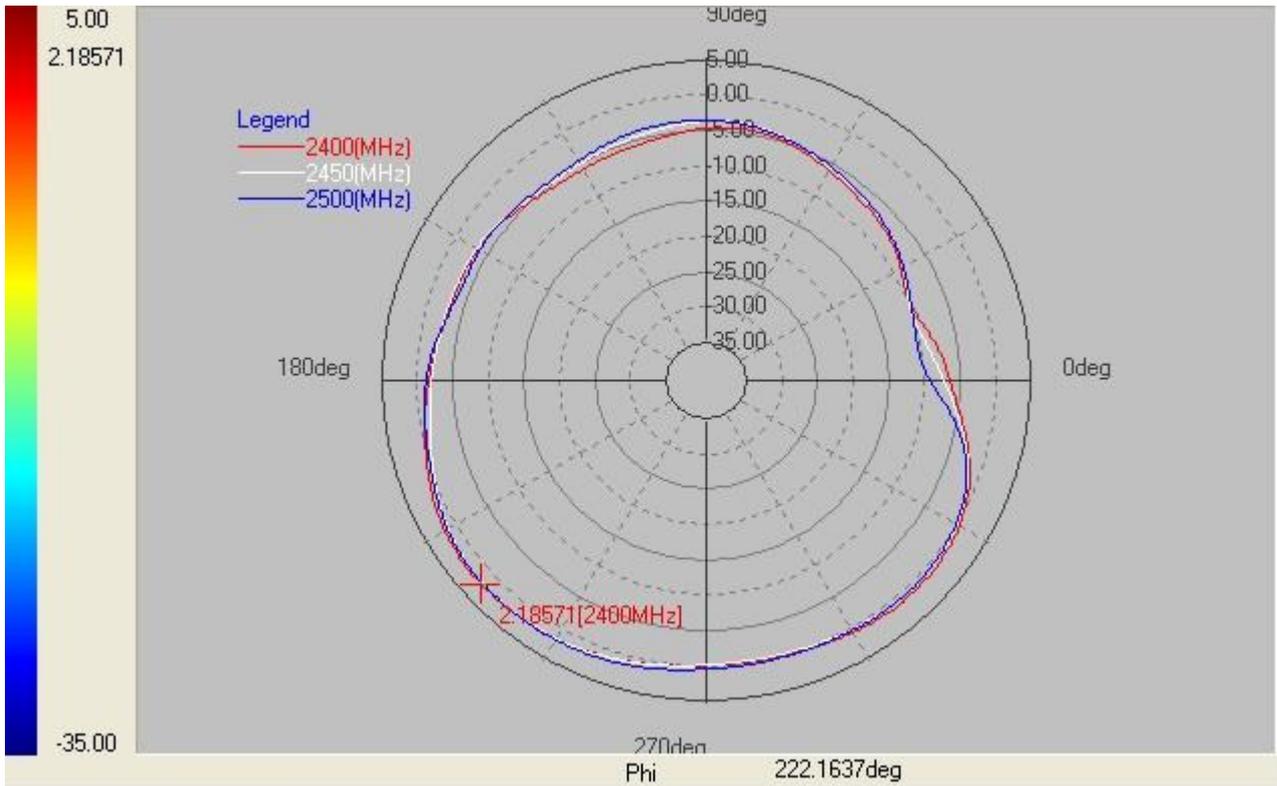
Gain Theta. dB



Layer	Max value	Average
2400(MHz)	-0.31	-4.11
2450(MHz)	-0.18	-4.28
2500(MHz)	0.30	-4.04

▲ Theta=90.00deg

Gain . dB



Layer	Max value	Average
2400(MHz)	2.19	-1.53
2450(MHz)	1.94	-1.68
2500(MHz)	2.00	-1.52

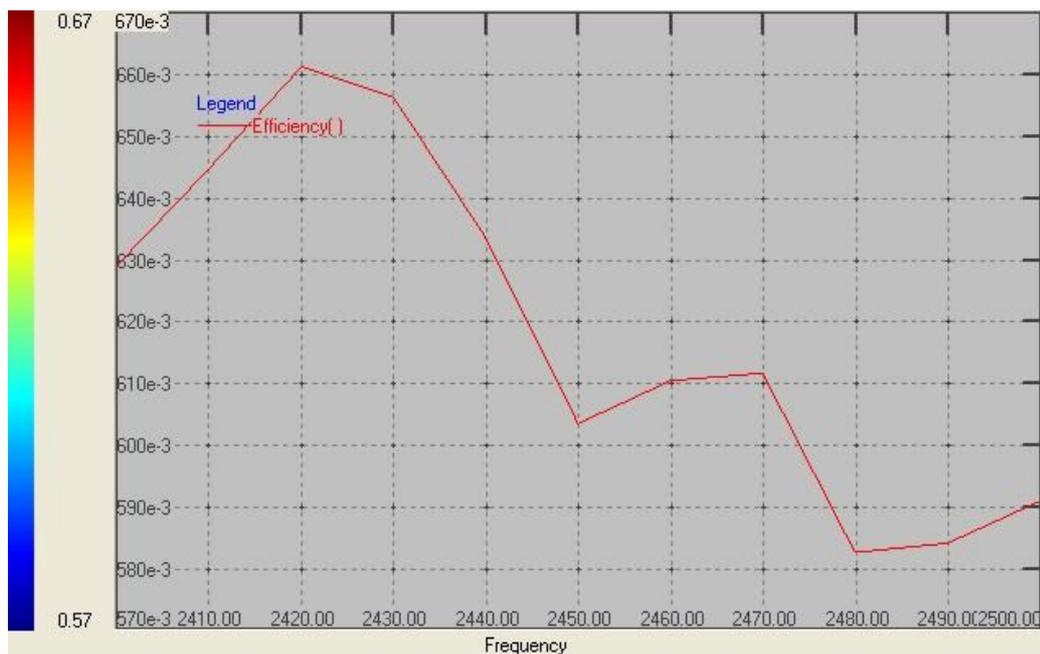
5. Efficiency

(H)



Maximum efficiency at 2.4~2.5GHz : 63.3%

(V)



Maximum efficiency at 2.4~2.5GHz : 66.1%