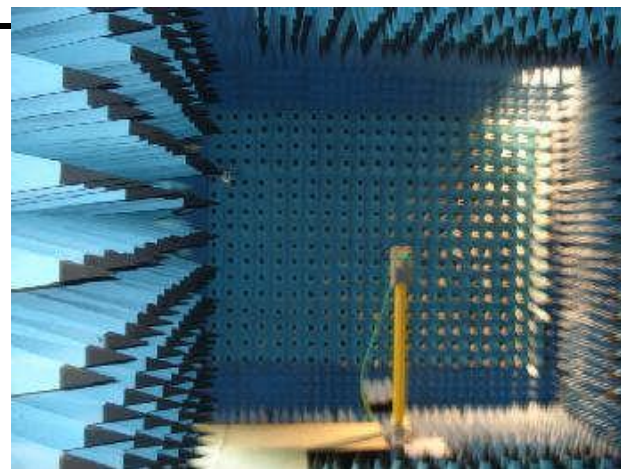




Test items and equipment

	Test items	equipment
1. S parameter	1. return loss(RL) 2. standing wave ratio(VSWR)	Network Analyzer: HP 85046A
2. Coupling power test	1. transmit power (power) 2. Receive sensitivity(level)	GSM /CDMA Tester: Agilent 9860 6*4*3 anechoic chamber





Antenna Radiation Test:

Phone model	RAYO SOL	instruction manual					
Test items		GSM900 measurement value			DCS1800 measurement value		
channel		1	62	124	512	698	885
TRP (dBm)		29.30	28.44	27.84	21.62	24.19	26.44
TIS (dBm)		-103.56	-103.42	-103.39	-104.78	-104.65	-104.23
(Max Power)		31.70	31.01	30.35	23.80	26.18	28.87
(Max Sensitivity)		-105.87	-105.65	-105.45	-107.78	-107.45	-107.56
Gain (dBi)		0.4	0.4	0.4	0.6	0.6	0.6



Antenna Radiation Test:

Phone model	RAYO SOL	instruction manual					
Test items		GSM850 measurement value			PCS1900 measurement value		
channel		128	190	251	512	661	810
TRP (dBm)		27.15	28.41	28.56	27.76	26.65	26.34
TIS (dBm)		-106.18	-106.05	-105.04	-100.70	-100.48	-100.40
(Max Power)		29.36	30.47	31.74	31.05	30.25	30.07
Max Sensitivity)		-109.45	-109.36	-109.10	-104.45	-104.50	-104.30
Gain (dBi)		0.3	0.3	0.4	0.6	0.7	0.7



天线辐射测试:

Phone model	RAYO SOL	instruction manual					
Test items		GSM900 measurement value			DCS1800 measurement value		
channel		1	62	124	512	698	885
TRP (dBm)		29.30	28.44	27.84	22.62	23.19	23.12
TIS (dBm)		-103.45	-103.78	-103.20	-104.45	-104.36	-104.40
(Max Power)		32.30	31.70	31.60	24.80	25.18	25.87
(Max Sensitivity)		-107.87	-106.65	-106.45	-107.78	-107.45	-107.56
Gain (dBi)		0.4	0.4	0.4	0.6	0.6	0.6



天线辐射测试:

Phone model	RAYO SOL	instruction manual					
Test items		GSM850 measurement value			PCS1900 measurement value		
信 道		128	190	251	512	661	810
TRP (dBm)		27.30	27.44	28.84	22.62	23.19	23.12
TIS (dBm)		-104.45	-104.78	-103.20	-102.45	-102.36	-101.40
(Max Power)		30.30	30.70	32.56	25.30	26.10	26.70
(Max Sensitivity)		-110.87	-110.26	-109.65	-105.78	-105.45	-104.56
Gain (dBi)		0.3	0.3	0.4	0.6	0.7	0.7



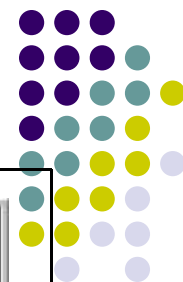
天线辐射测试:

Phone model	RAYO SOL	instruction manual					
Test items		GSM900 measurement value			DCS1800 measurement value		
channel		1	62	124	512	698	885
TRP (dBm)		25.55	25.60	25.36	22.62	23.19	24.12
TIS (dBm)		-104.30	-103.45	-103.12	-101.78	-102.54	-102.56
(Max Power)		28.50	30.30	29.10	25.78	26.20	28.30
(Max Sensitivity)		-107.01	-106.45	-106.30	-105.88	-106.05	-105.23
Gain (dBi)		0.4	0.4	0.4	0.6	0.6	0.6

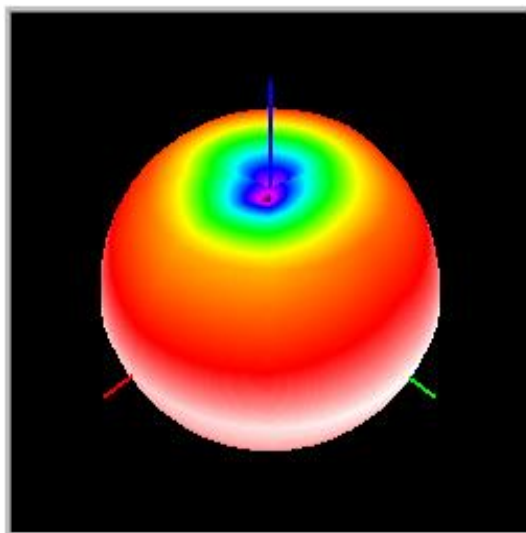


天线辐射测试:

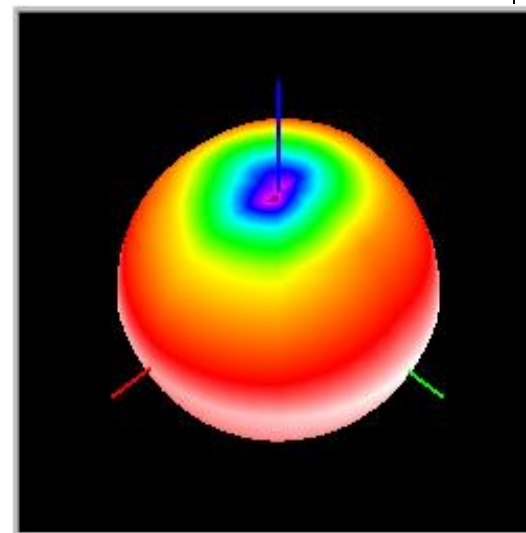
Phone model	RAYO SOL	instruction manual					
Test items		GSM850 measurement value			PCS1900 measurement value		
channel		128	190	251	512	661	810
TRP (dBm)		24.15	25.45	26.36	25.76	24.45	22.50
TIS (dBm)		-106.30	-105.56	-105.25	-98.45	-97.36	-97.26
(Max Power)		27.56	29.80	31.40	28.35	27.15	25.60
(Max Sensitivity)		-109.15	-108.45	-108.36	-100.25	-99.78	-99.90
Gain (dBi)		0.3	0.3	0.3	0.7	0.7	0.7



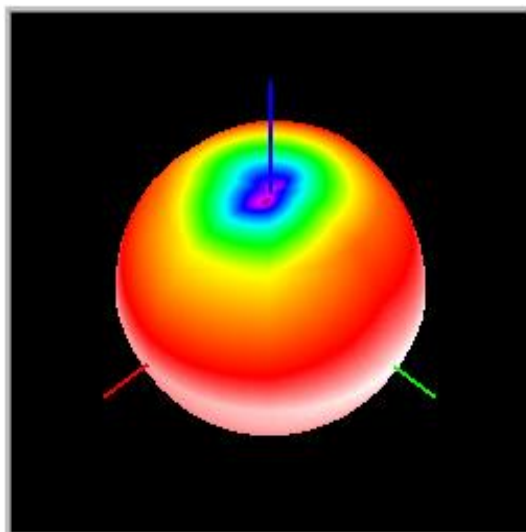
**GSM850
-TRP**



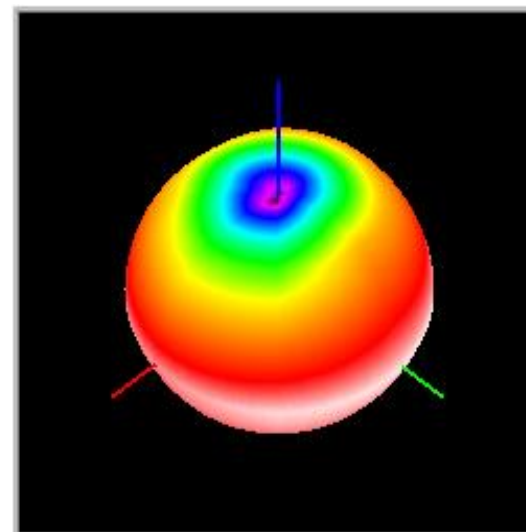
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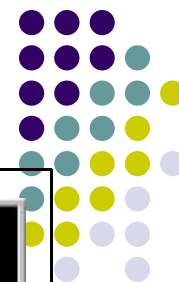


**GSM900
-TRP**

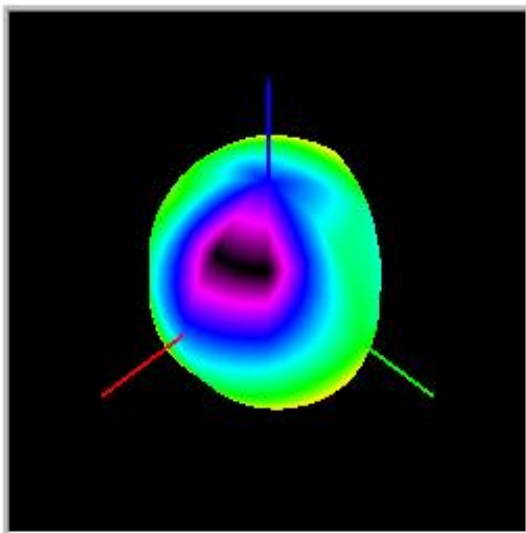


**GSM900
-TIS**

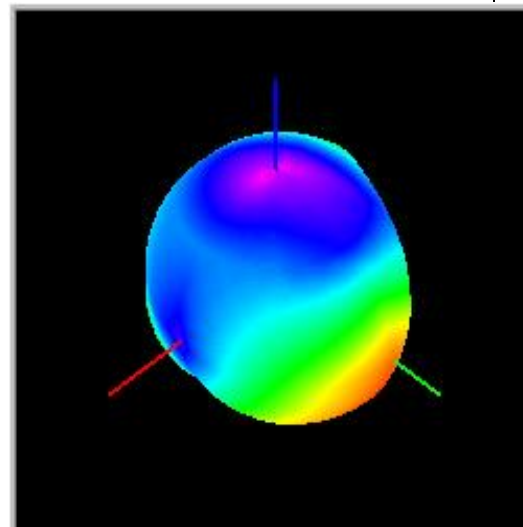




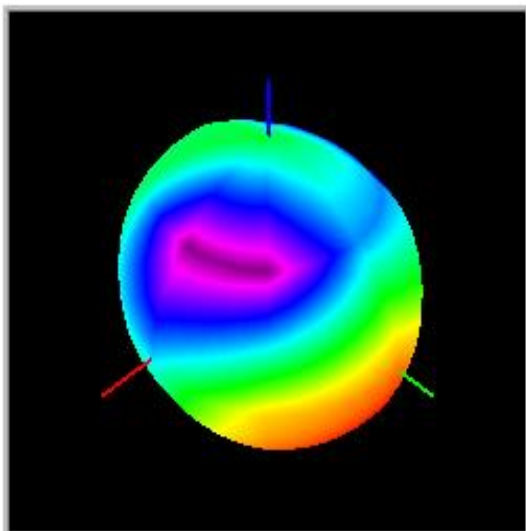
**DCS1800
-TRP**



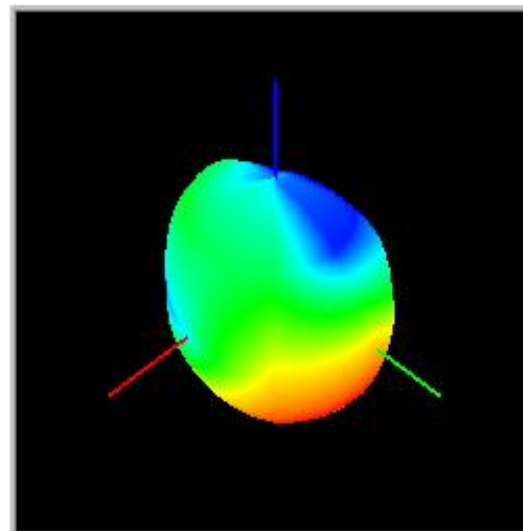
**DCS1800
-TIS**



**PCS1900
-TRP**



**PCS1900
-TIS**





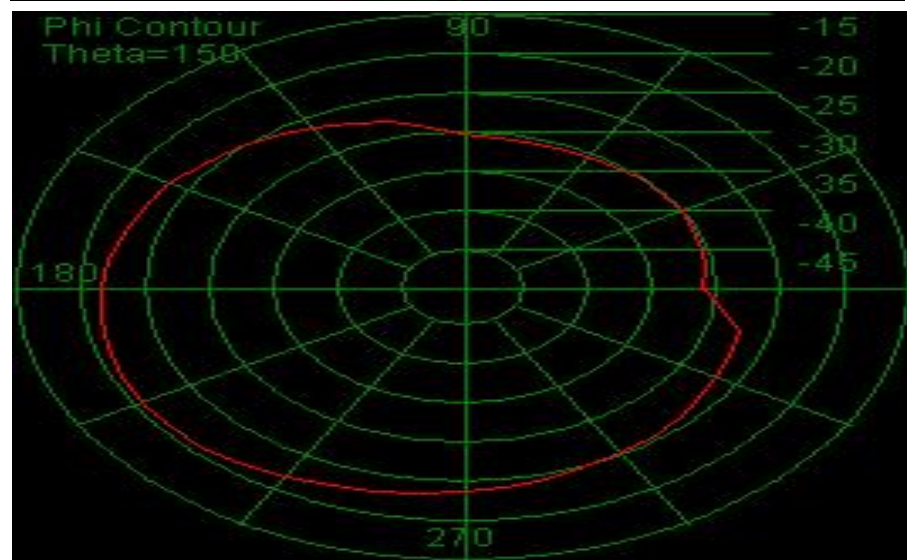
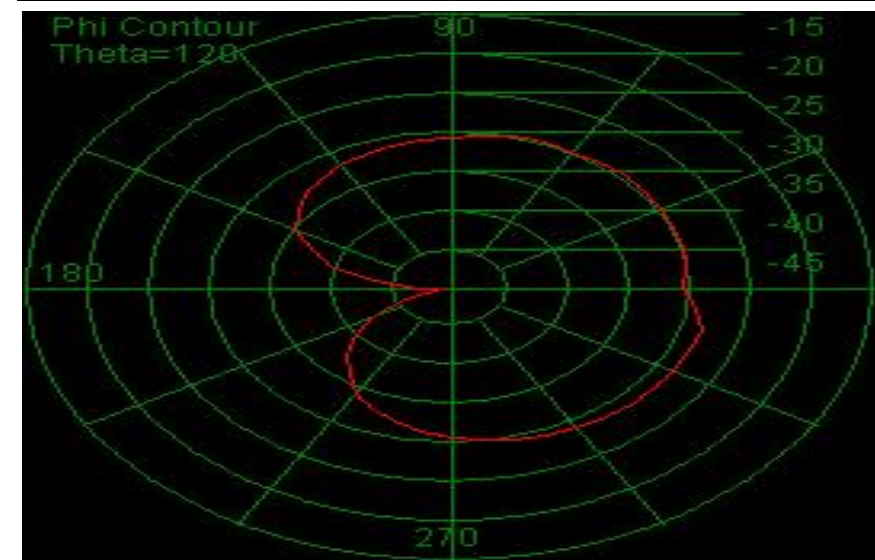
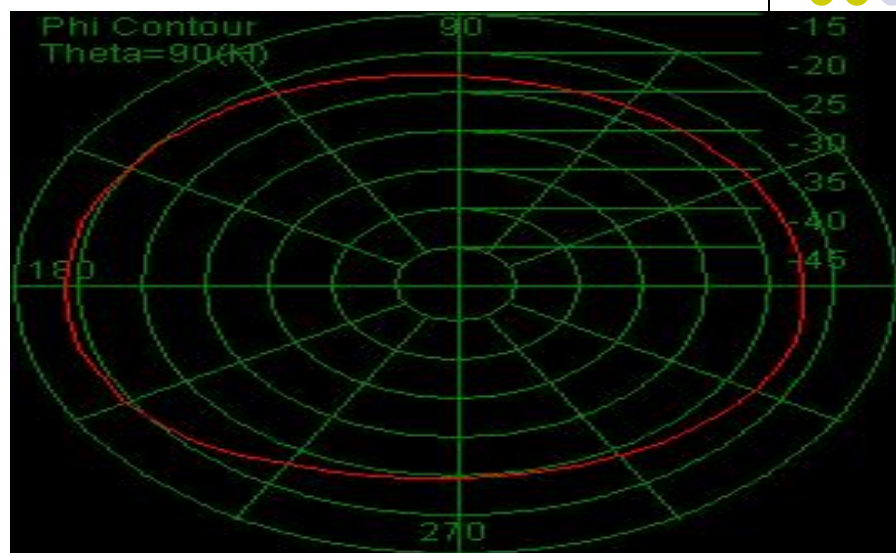
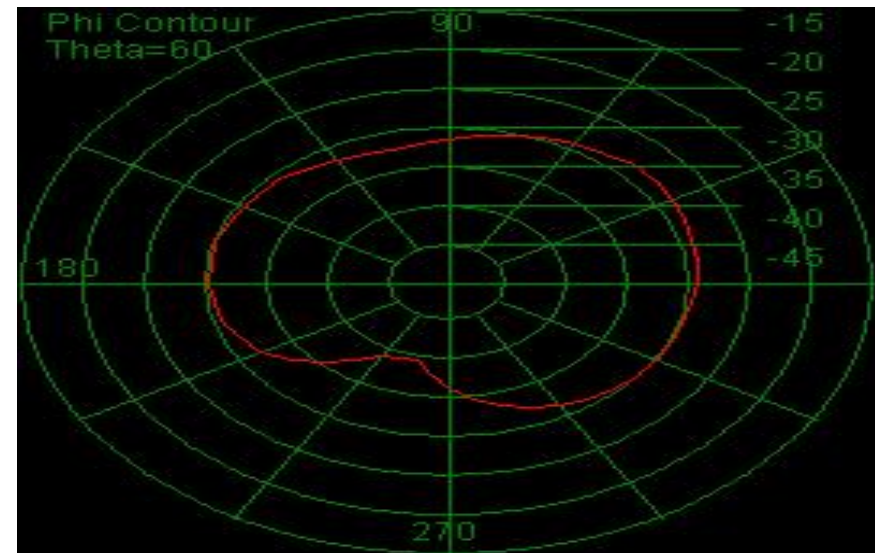
NO.	ITEMS	DETAILS
1	工作频段 Operating band	BT
2	频率范围 Frequency range	(2400~2500MHz)
3	天线类型 Antenna Type	Monopole antenna
4	天线材质及实现形式	纯铜芯线
5	输入阻抗 Input Impedance	50 (Ω)
6	增益 Gain	≤ 2 . 1 dBi



Frequency	Efficiency (%)	Gain (dB)
2400MHz	42.7	1.9
2420MHz	41.3	1.7
2440MHz	38.9	1.3
2460MHz	40.1	1.6
2480MHz	42.3	1.9
2500MHz	44.1	2.1

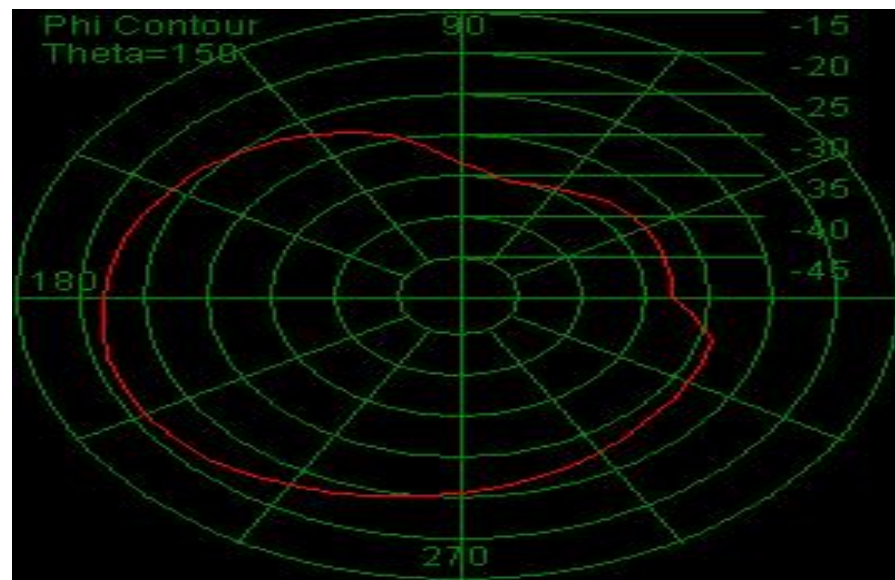
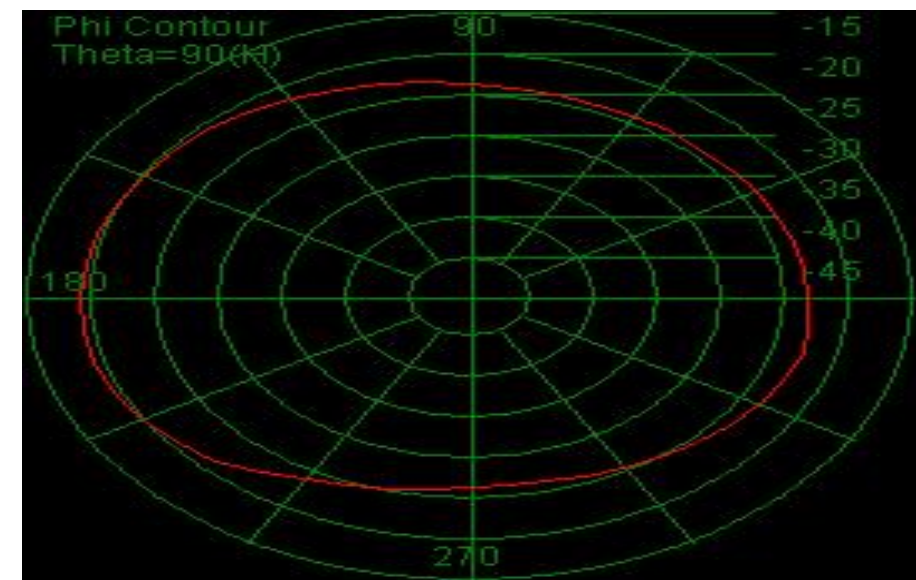
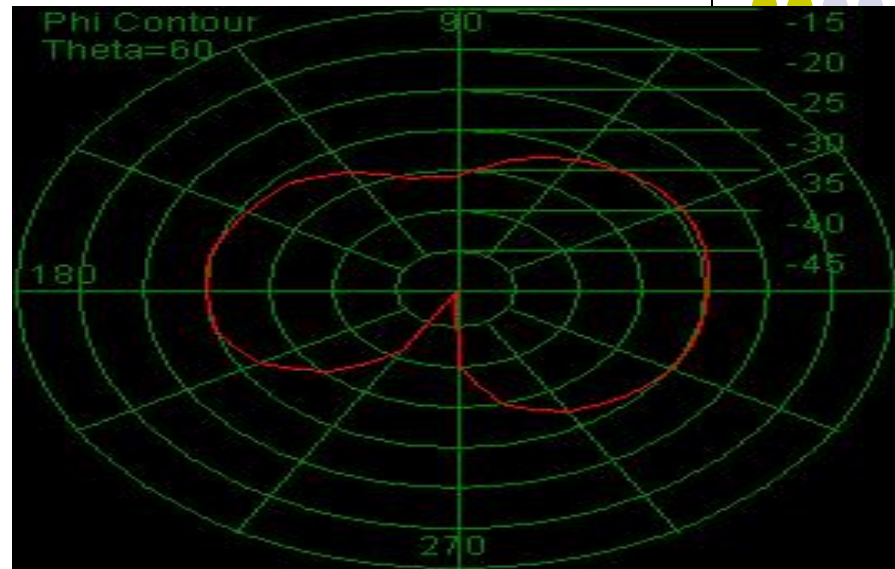
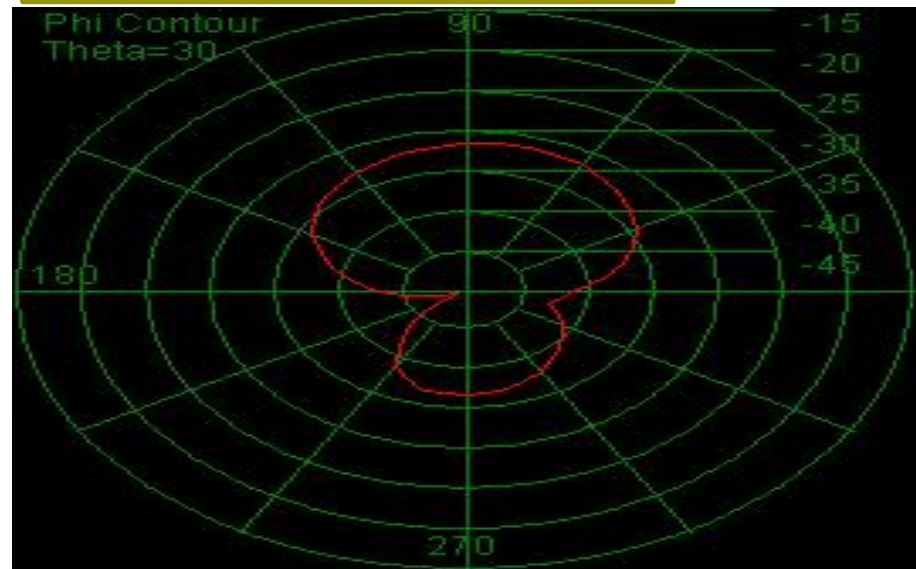


2400mhz



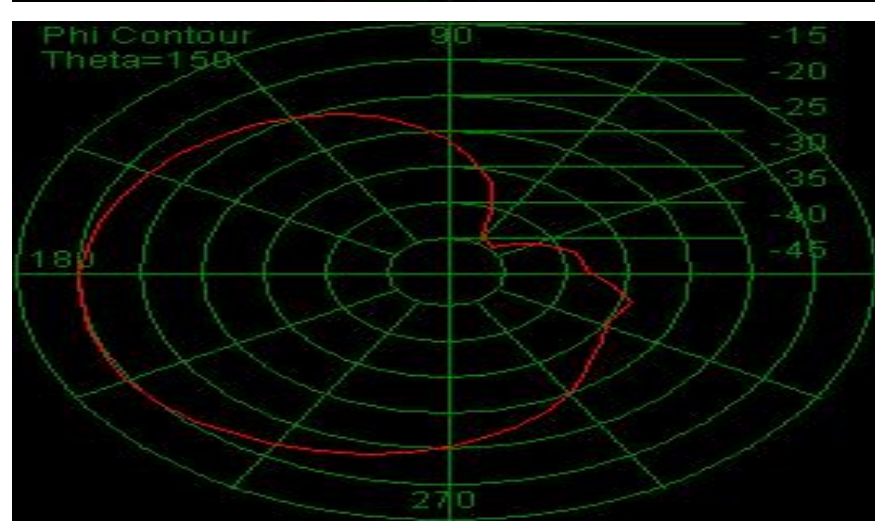
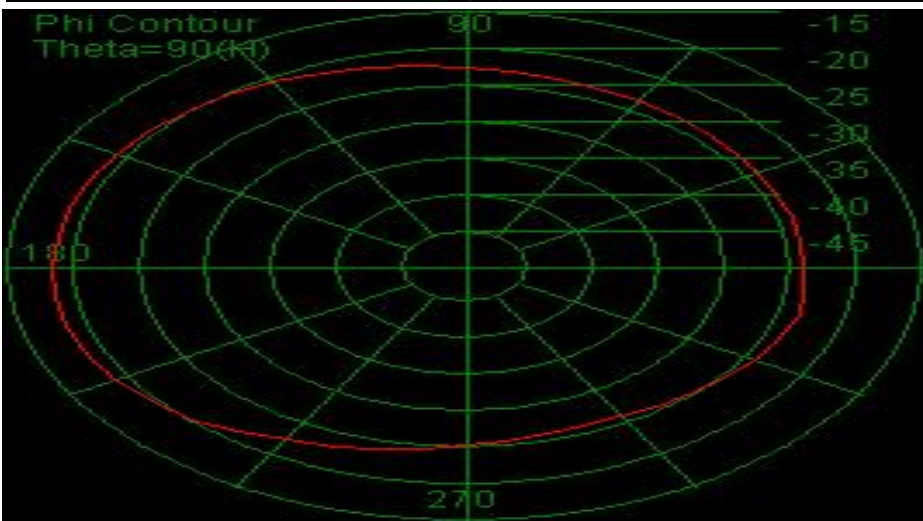
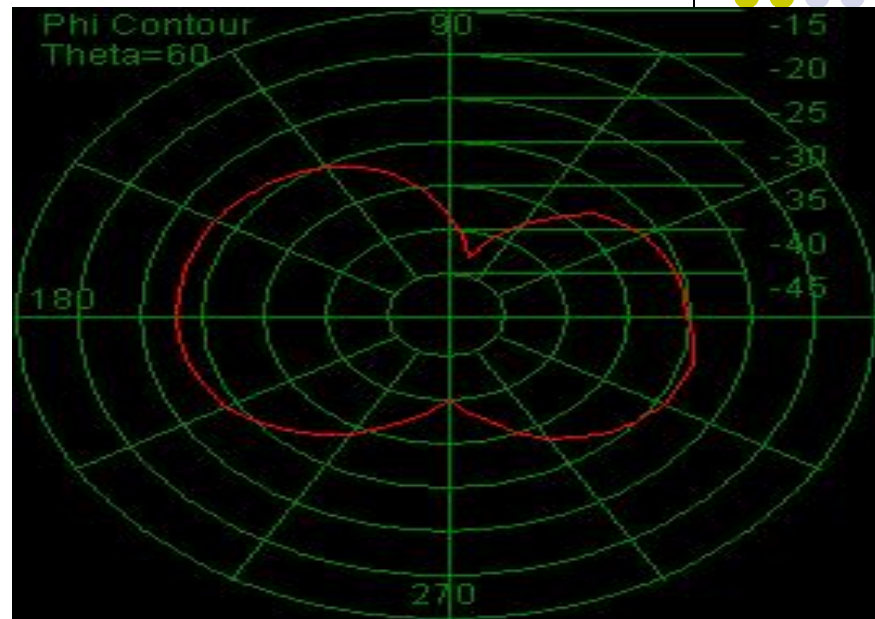
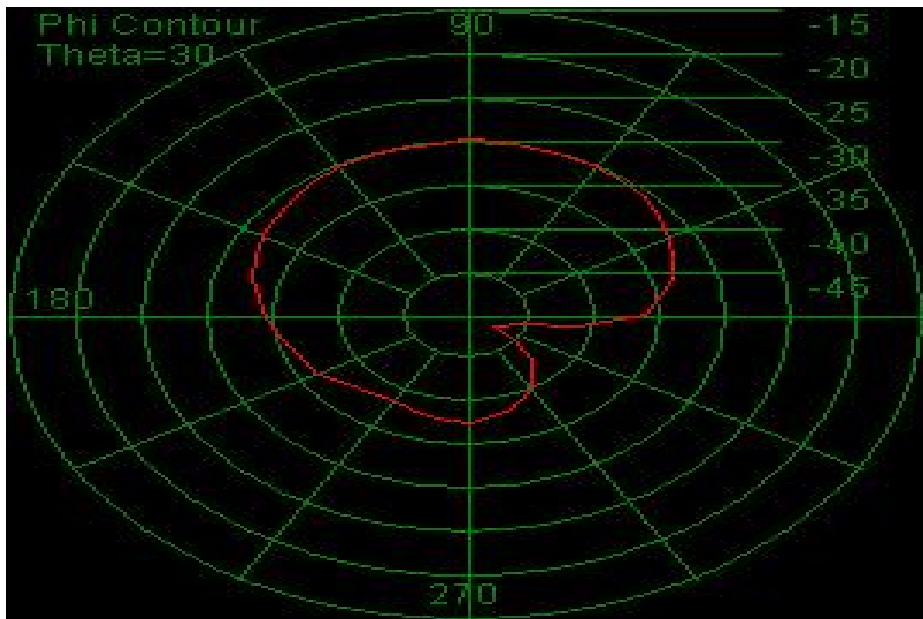


2420mhz



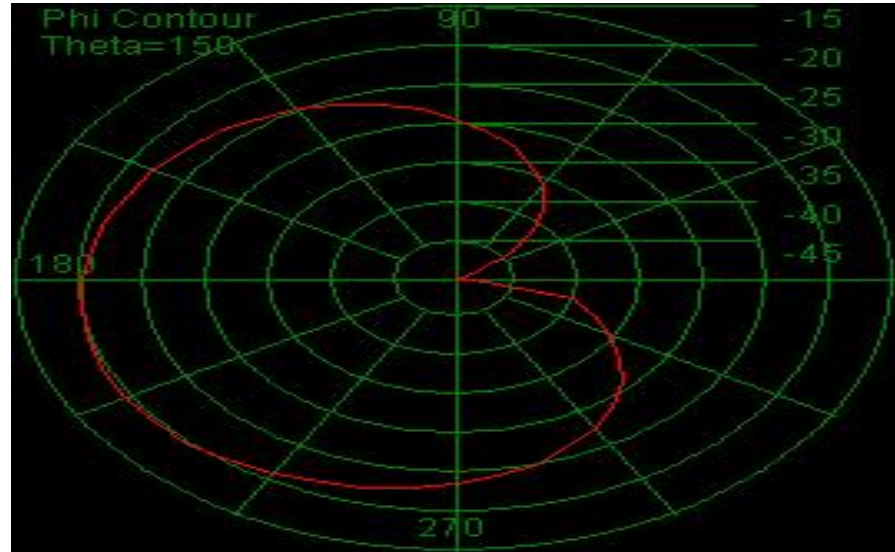
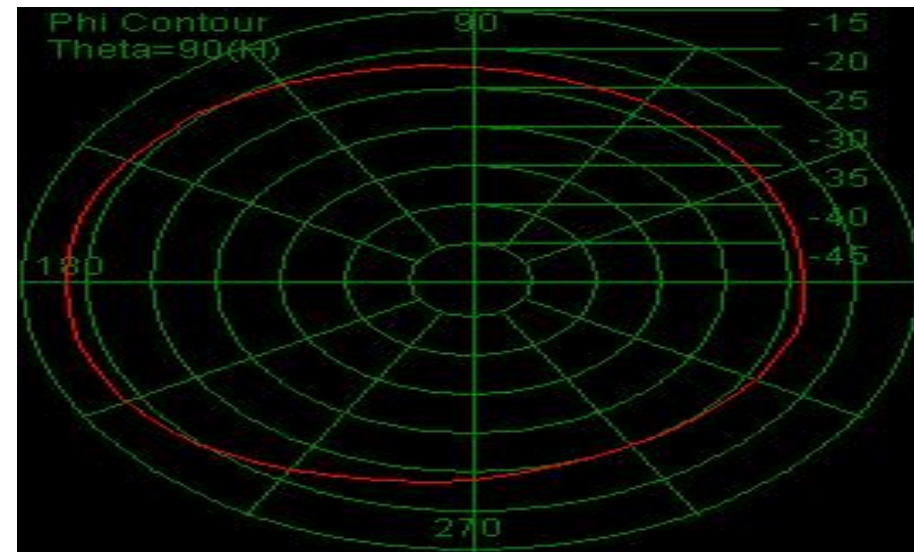
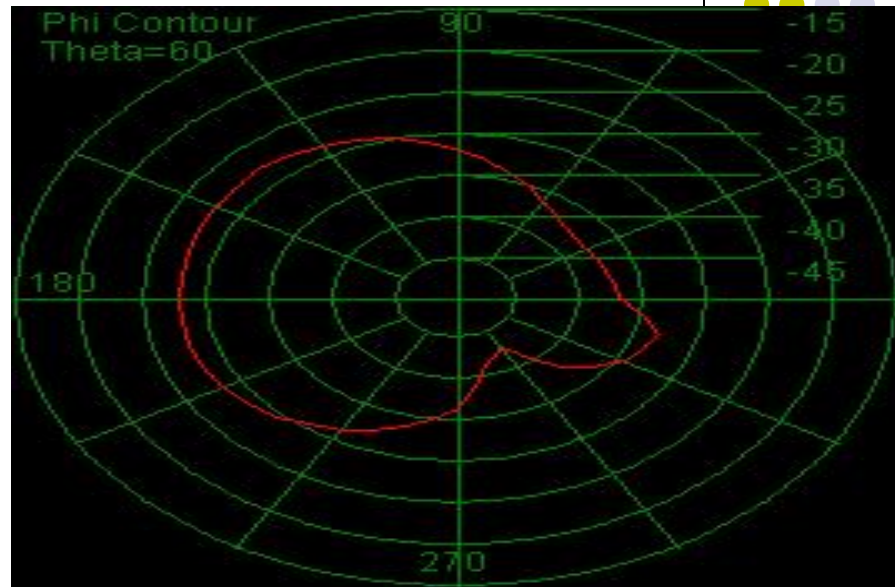
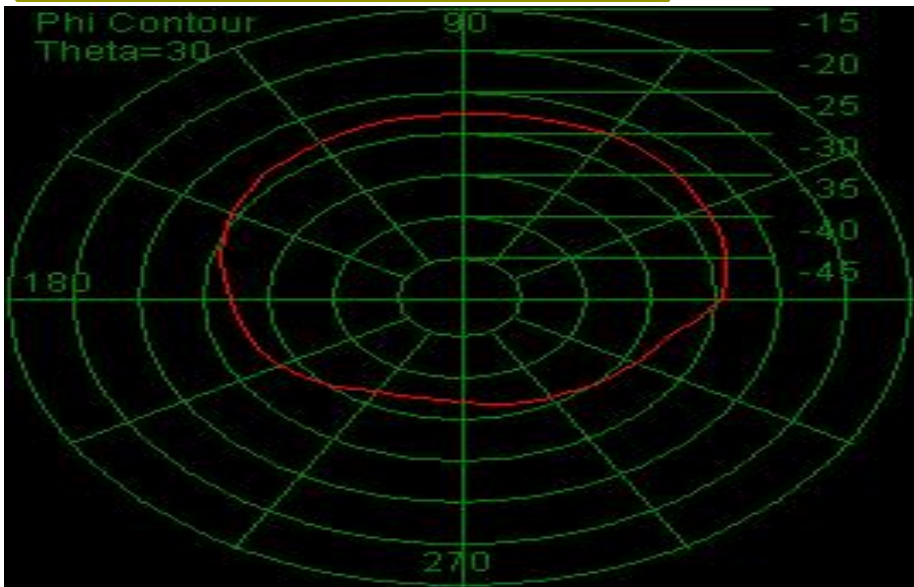


2440mhz



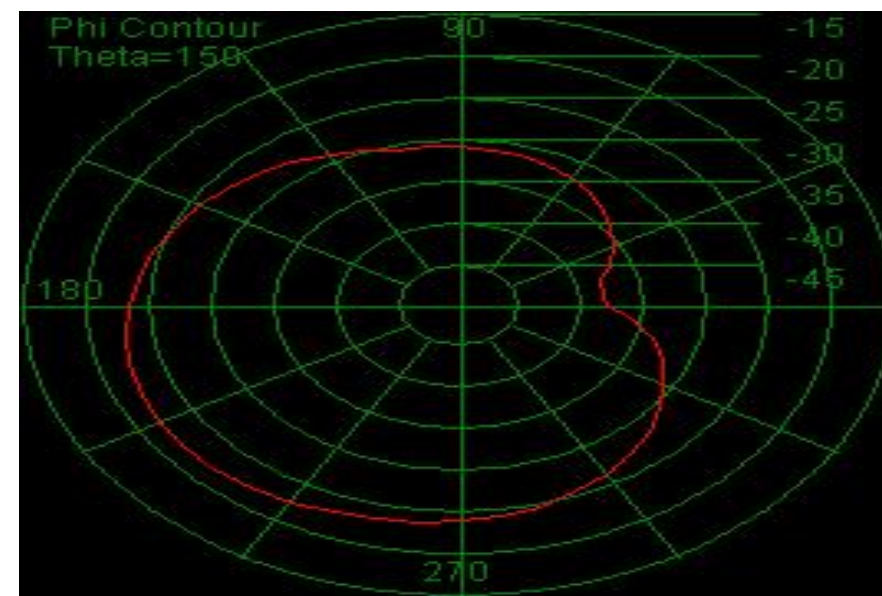
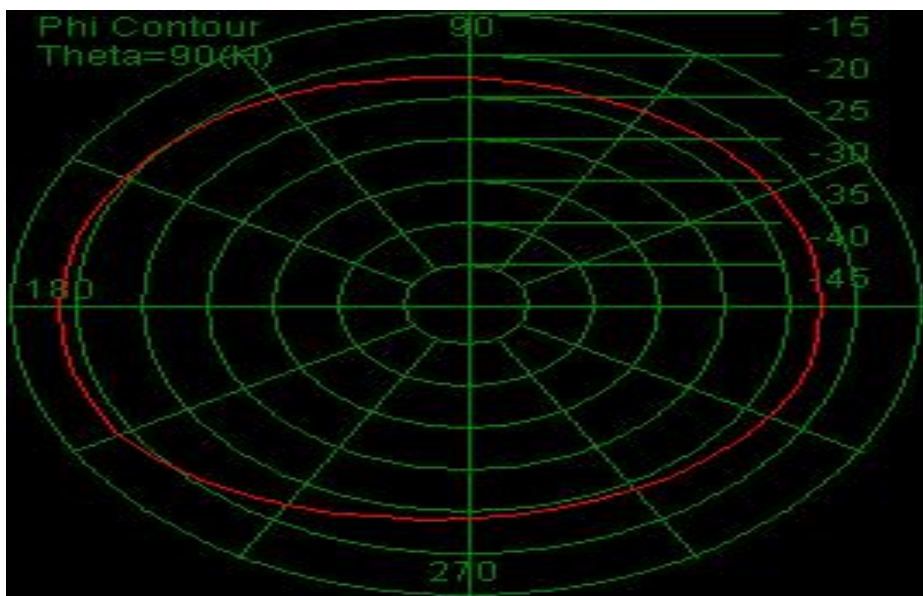
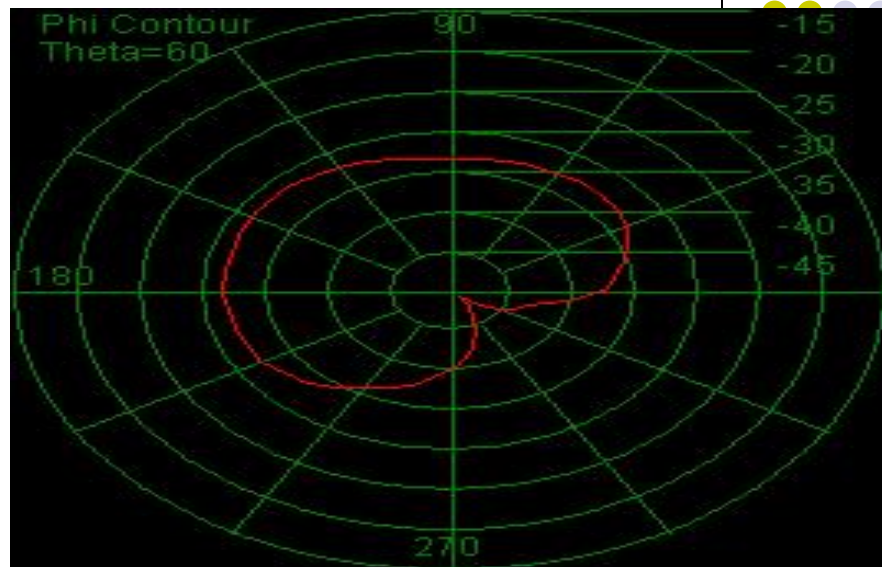
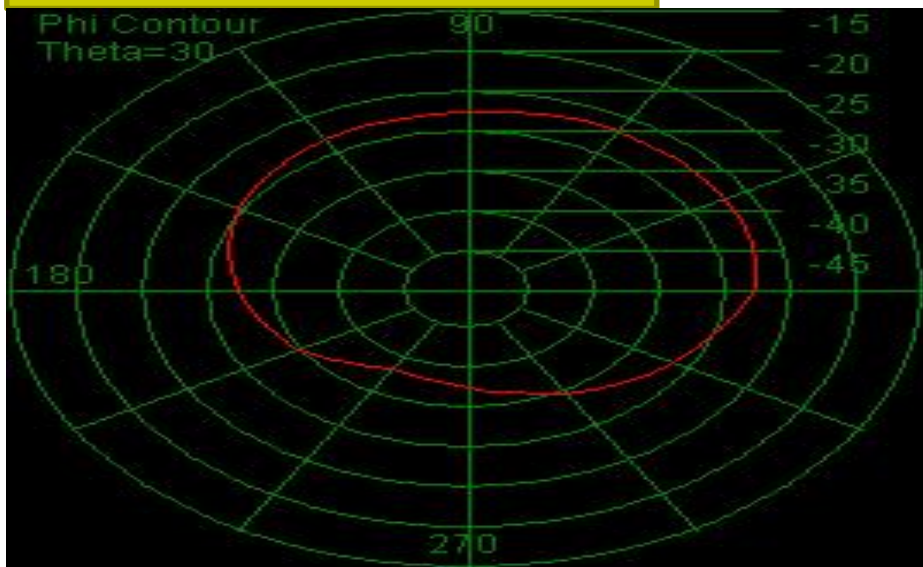


2460mhz





2480mhz





2500mhz

