

SHEN ZHEN SKYLINK TECHNOLOGY CO . , LTD

Antenna specifications

Project name: GDU RC SEE
material No. : GDU RC SEE.PRA.C081.130B.3
GDU RC SEE.DIV.C081.165B.3
GDU RC SEE.WIFI.C081.200B.3

person in charge: chen shu

versions: V1

date:2022.10.10

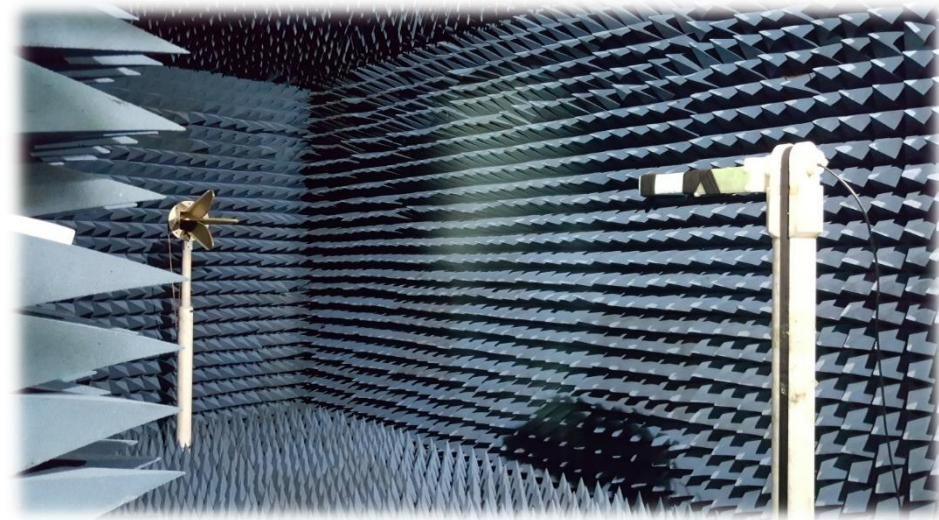
phone: 0755-85263741 fax: 0755-85263741
address: 5D, Building L, No. 26, Lane 2, Liuxian 1st Road, District 71, Web: <http://www.tll-skylink.com>
Baoan District, Shenzhen

R&D environment

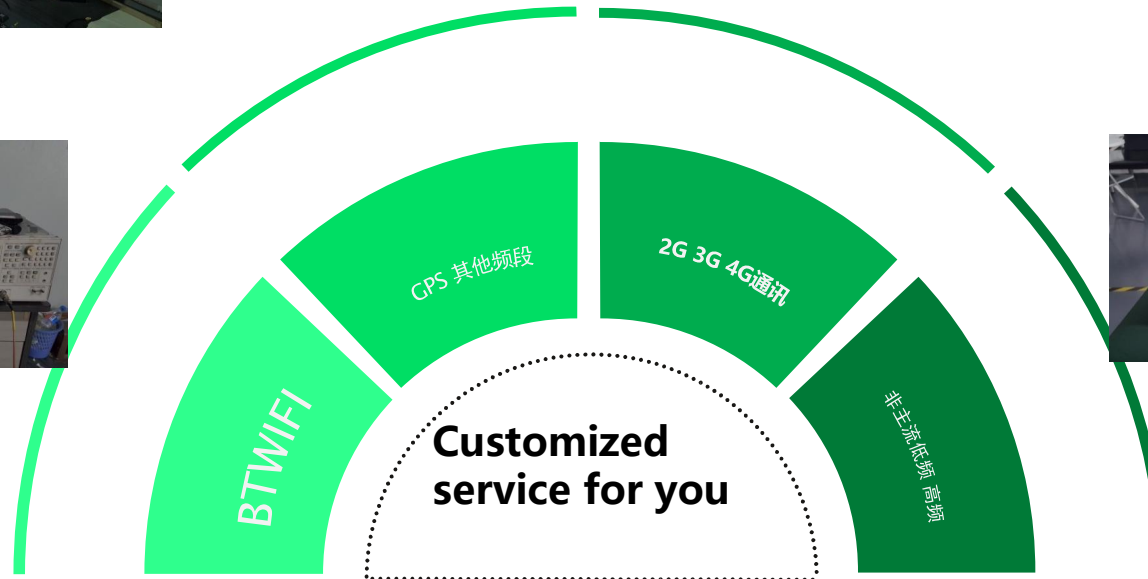
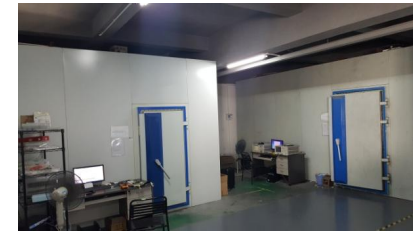
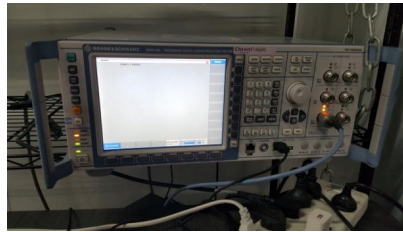
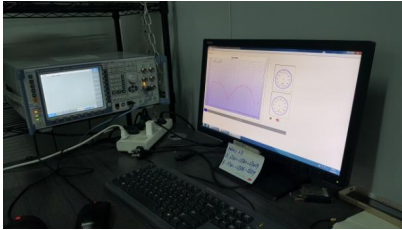
anechoic chamber

And accessory equipment

1. 2G/3G communication microwave anechoic chamber 2.4G microwave anechoic chamber communication products
2. CMW500
3. Agilent Network Analyzer
4. HP Network Analyzer
5. GPS101, etc.



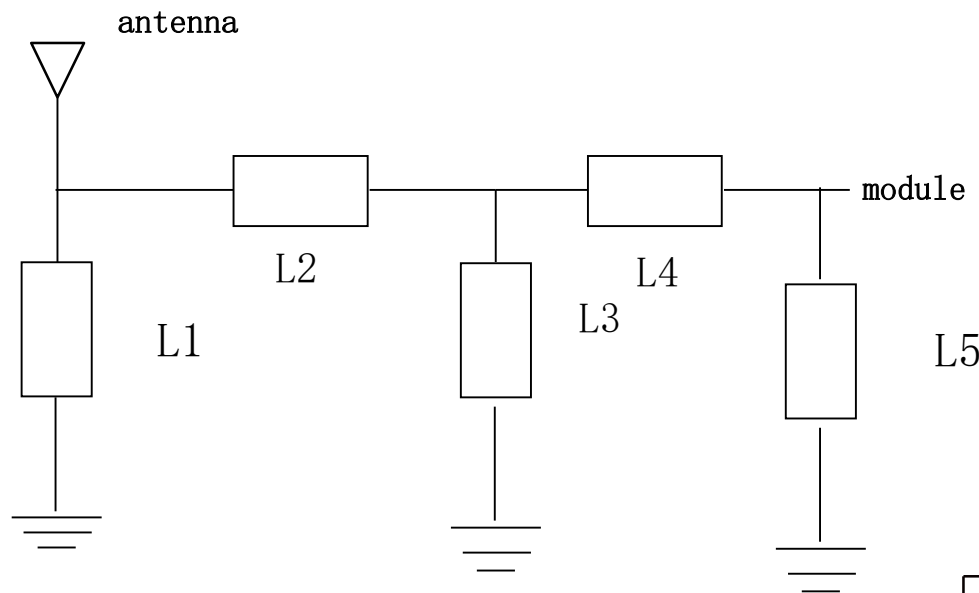
R&D equipment



Information description

client's name	product name	antenna type
GDU-Tech	Remote control	FPC
Band		
WIFI	2400-2500MHz 5150-5850MHz	
user-defined	2400-2500MHz 5150-5850MHz	
/	/	
/	/	

Antenna matching circuit



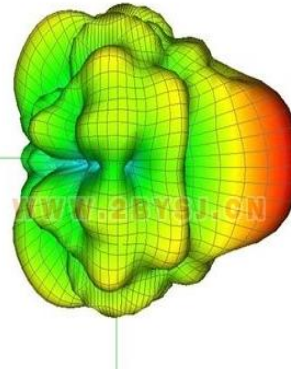
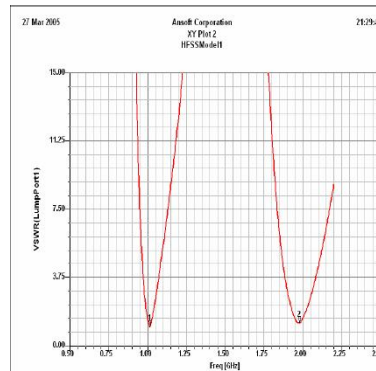
The matching of the original motherboard remains unchanged

	value
L1 (0201)	/
L2 (0201)	/
L3 (0201)	/
L4 (0201)	/
L5 (0201)	/

Testing capabilities

Passive

- Impedance
- VSWR
- Gain
- Efficiency
- Pattern

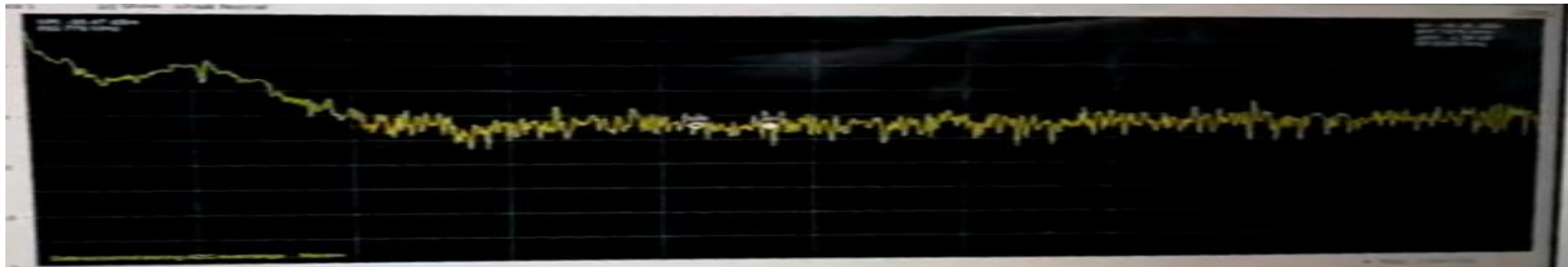
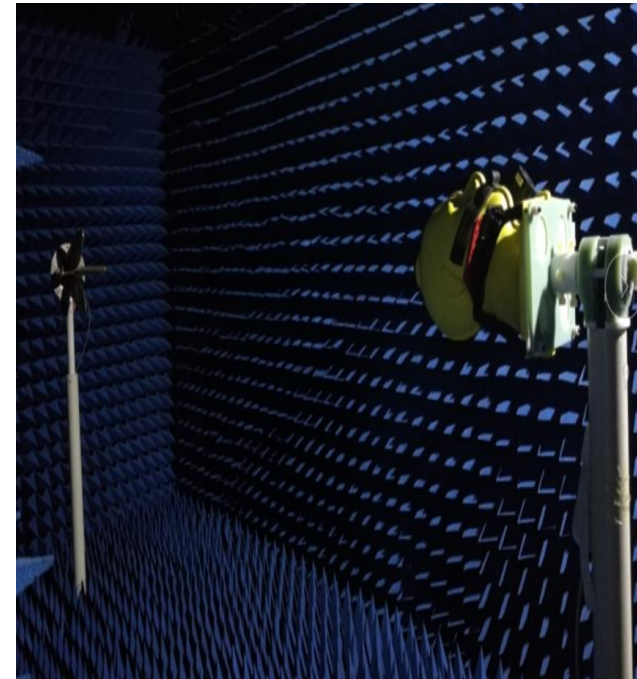


Active Test

- 2G 3G 4G
- WIFI 2.4G&5.8G
- BT
- GPS
- NB-IOT
- TRP
- 0~7.5G

Conducted Testing & TRP&TIS
Conducted Testing & TRP&TIS
Conducted Testing & TRP&TIS
Conducted Testing
in non-signaling mode Conducted
Testing &

Scan interference analysis



WIFI antenna positioning map



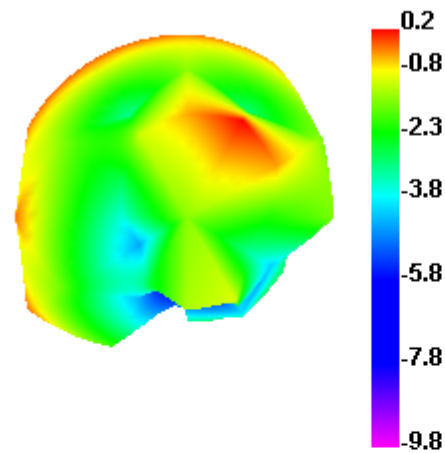
Align and flatten the antenna
along the two edges of the case

WiFi Effi@gain

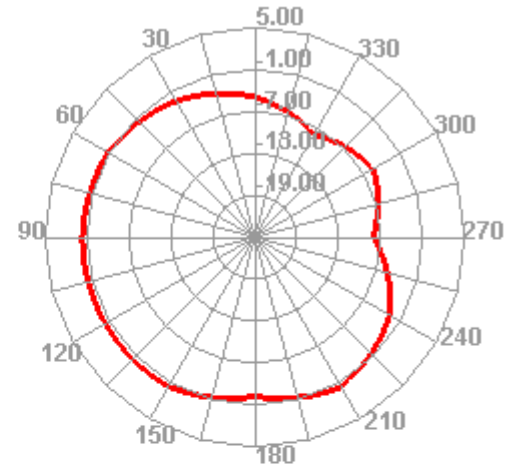
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	44.84	0.17	5150	46.6	0.61
2410	42.33	-0.27	5200	45.43	0.81
2420	42	-0.11	5250	44.45	0.3
2430	42.85	-0.06	5300	42.79	-0.3
2440	40.25	-0.46	5350	44.34	0.35
2450	36.59	-0.66	5400	43.99	0.49
2460	34.93	-0.72	5450	43.7	0.82
2470	36.31	-0.58	5500	43.74	0.8
2480	35.89	-0.66	5550	43.36	0.27
2490	36.16	-0.5	5600	44.87	-0.06
2500	36.95	-0.59	5650	46.2	-0.2
			5700	45.63	-0.19
			5750	46.44	-0.07
			5800	46.03	0.02
			5850	46.1	-0.03

directional diagram

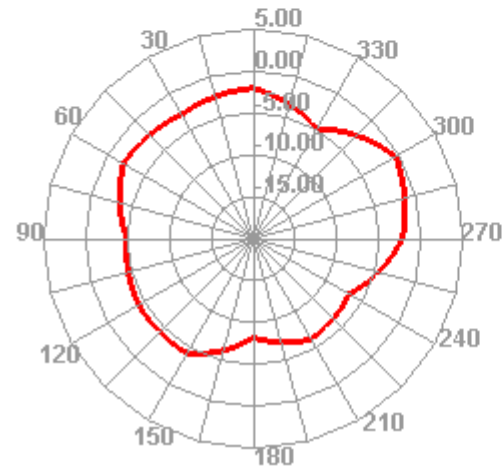
2400.000MHz



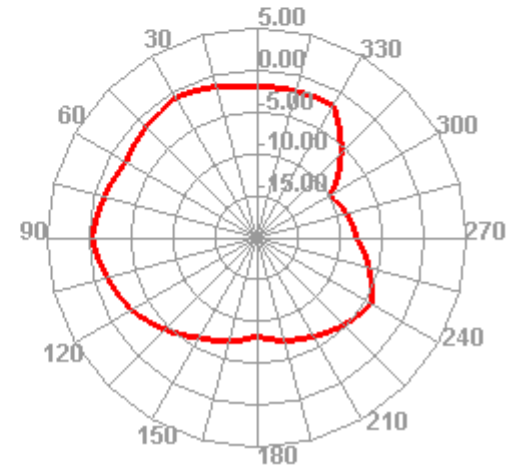
2400.000MHz H



2400.000MHz E1

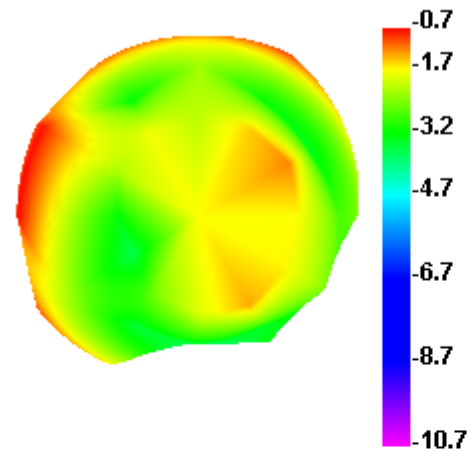


2400.000MHz E2

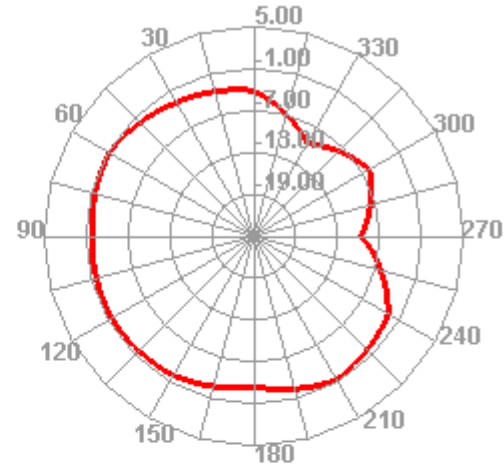


directional diagram

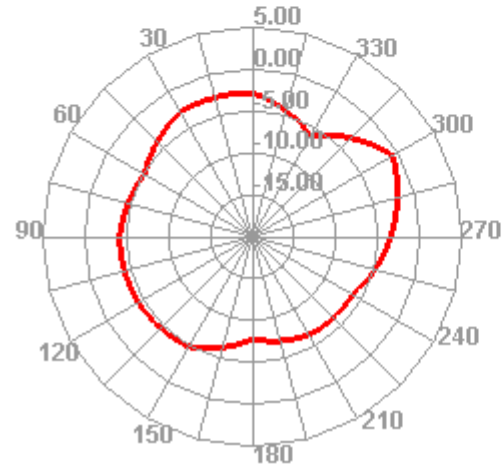
2450.000MHz



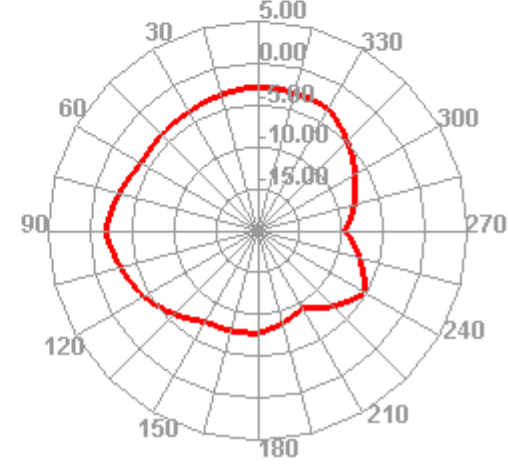
2450.000MHz H



2450.000MHz E1

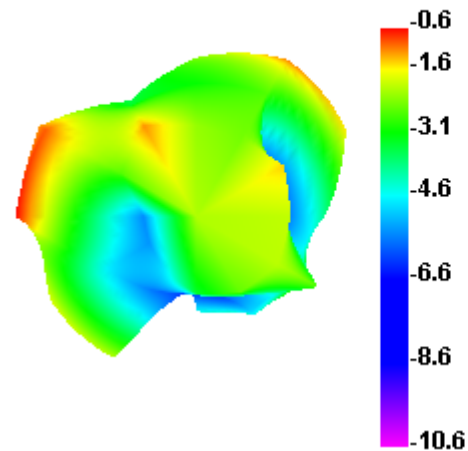


2450.000MHz E2

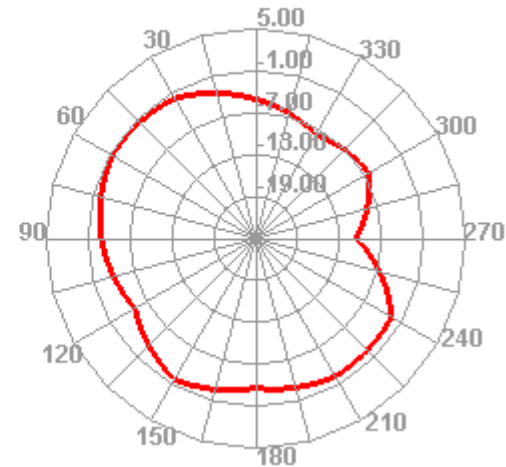


directional diagram

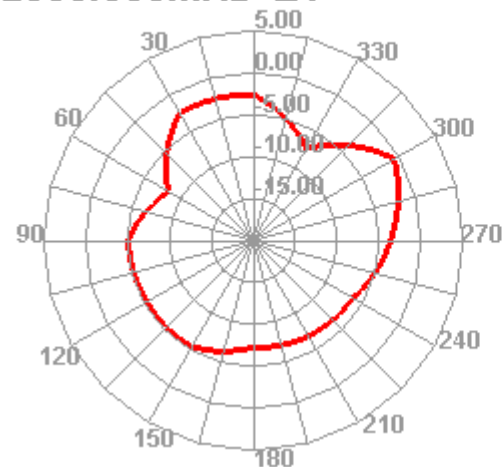
2500.000MHz



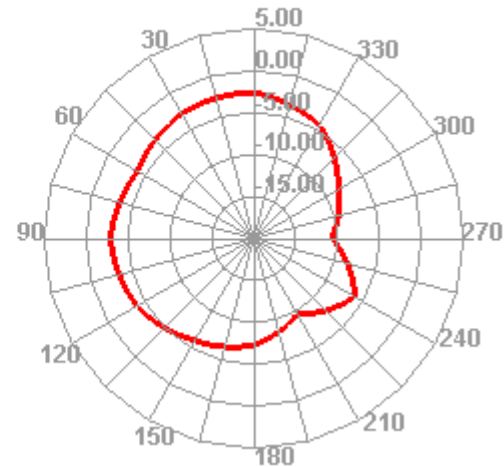
2500.000MHz H



2500.000MHz E1

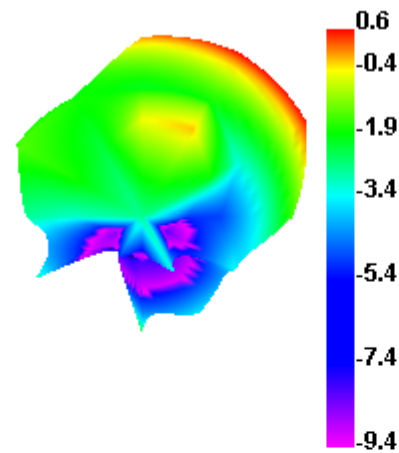


2500.000MHz E2

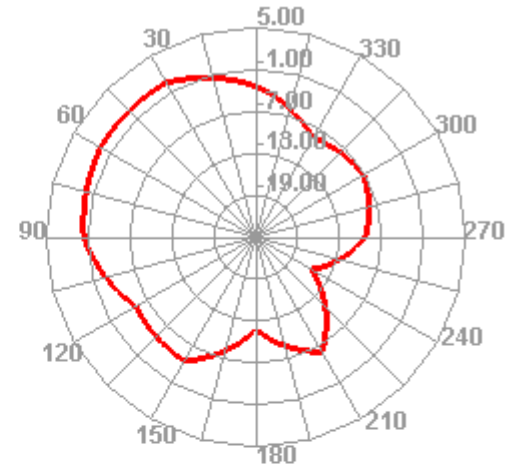


directional diagram

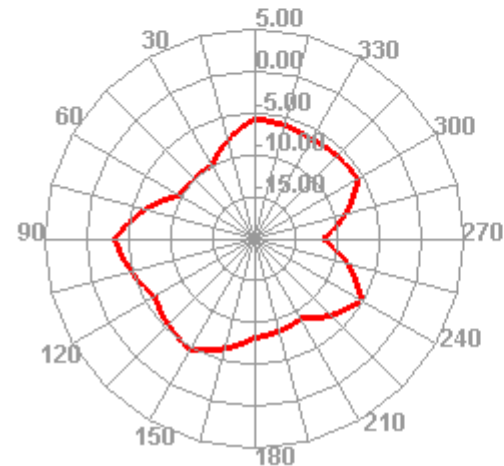
5150.000MHz



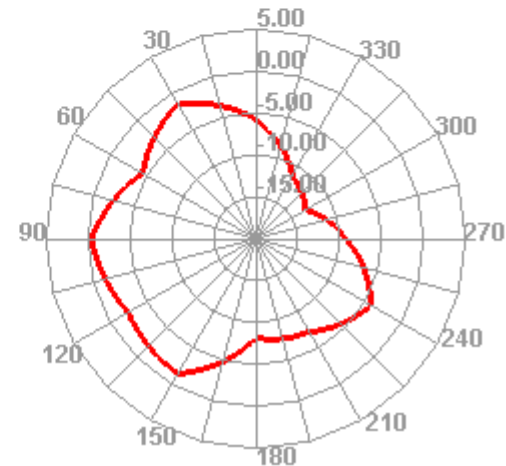
5150.000MHz H



5150.000MHz E1

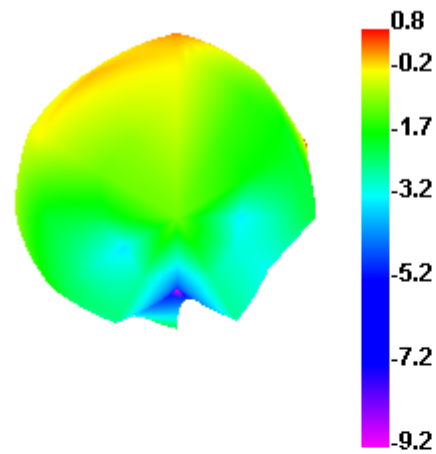


5150.000MHz E2

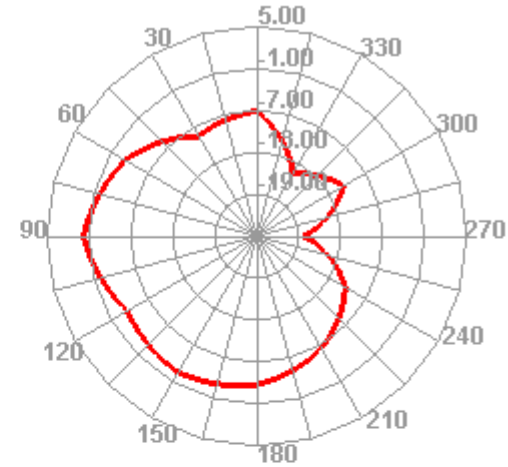


directional diagram

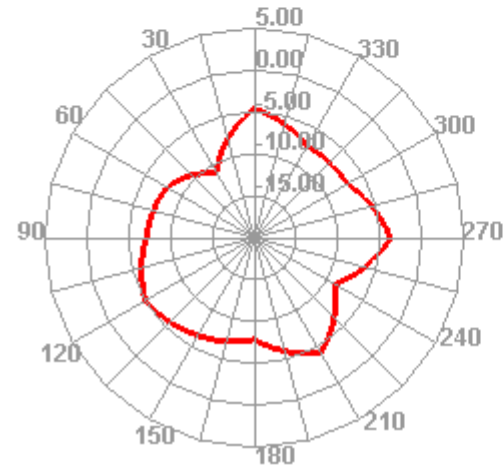
5500.000MHz



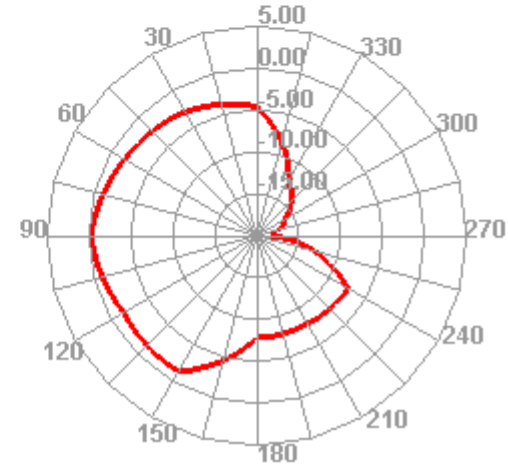
5500.000MHz H



5500.000MHz E1

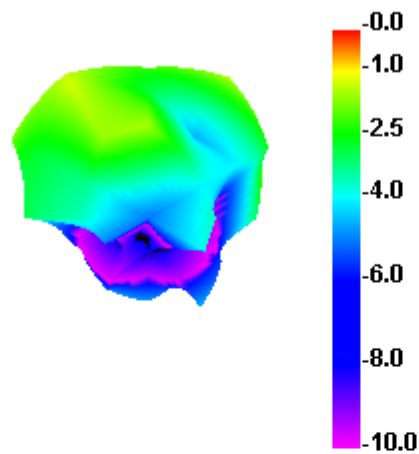


5500.000MHz E2

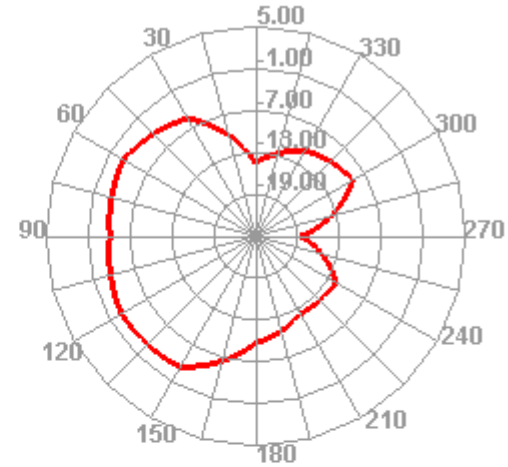


directional diagram

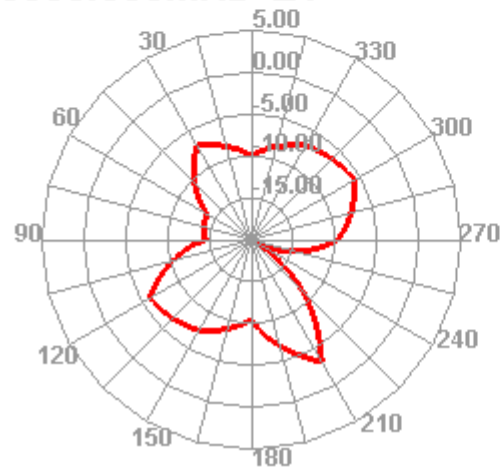
5850.000MHz



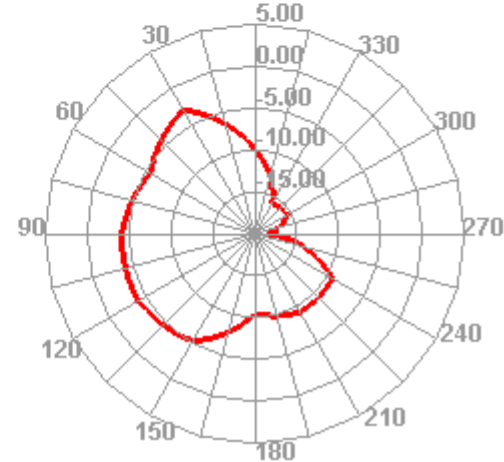
5850.000MHz H



5850.000MHz E1



5850.000MHz E2

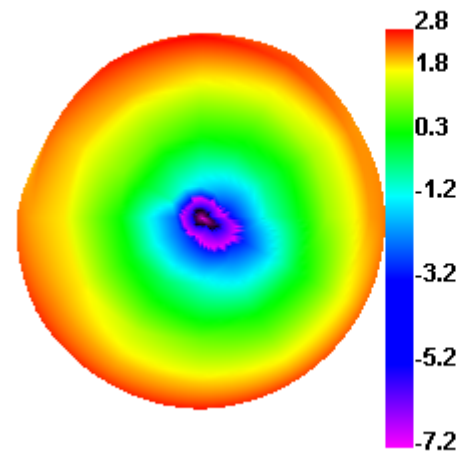


user-defined ant effi@gain

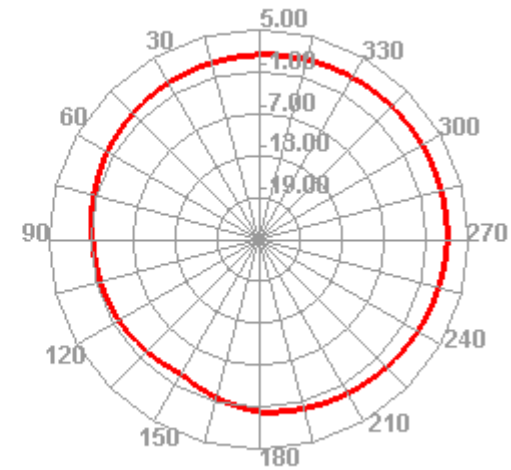
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	73.9	2.76	5150	55.08	2.22
2410	74.14	2.9	5200	53.69	2.36
2420	76.07	3.15	5250	53.82	2.62
2430	75.72	3.2	5300	52.62	2.58
2440	71.96	3.04	5350	56.36	2.95
2450	65.66	2.57	5400	57.93	3.35
2460	66.62	2.54	5450	57.05	3.2
2470	67.21	2.55	5500	60.32	3.12
2480	67.71	2.64	5550	58.79	3.45
2490	67.2	2.59	5600	59.3	3.75
2500	67.23	2.62	5650	61.85	3.98
			5700	57.63	3.55
			5750	56.91	3.48
			5800	52.89	3.06
			5850	55.48	3.13

directional diagram

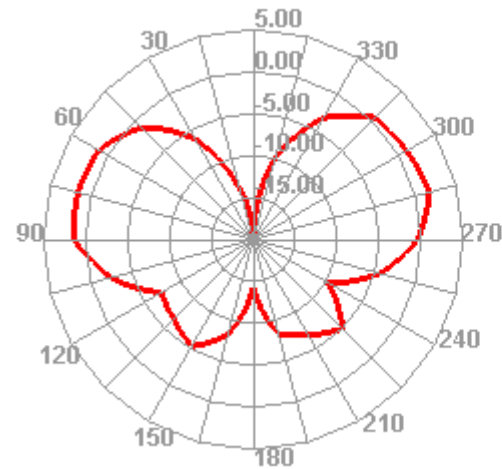
2400.000MHz



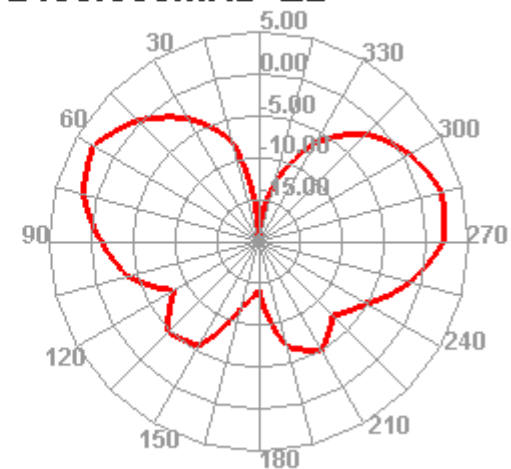
2400.000MHz H



2400.000MHz E1

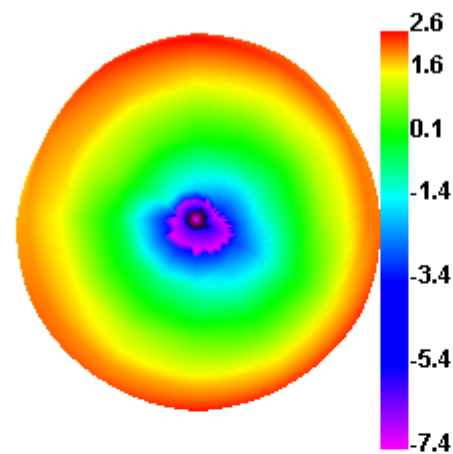


2400.000MHz E2

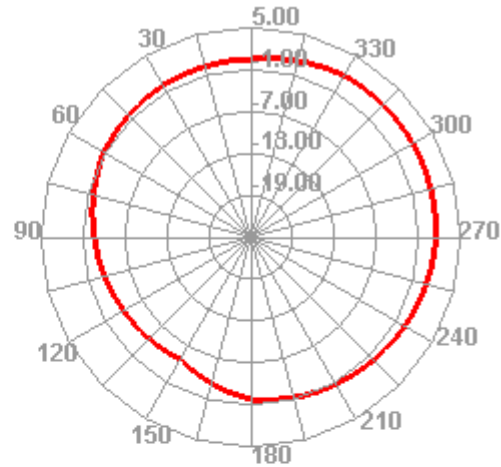


directional diagram

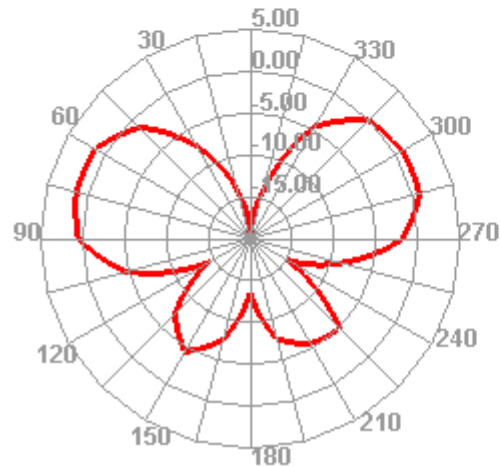
2450.000MHz



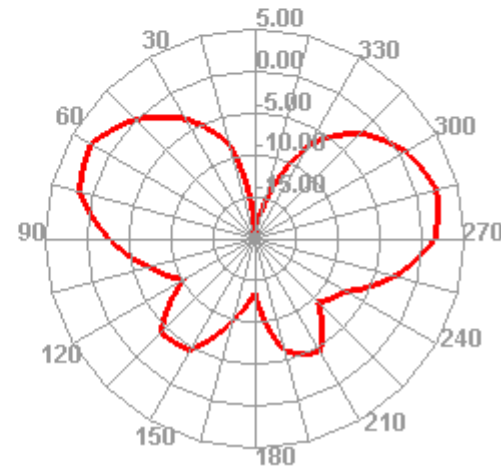
2450.000MHz H



2450.000MHz E1

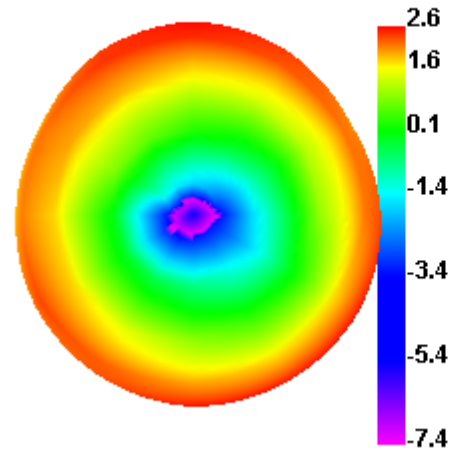


2450.000MHz E2

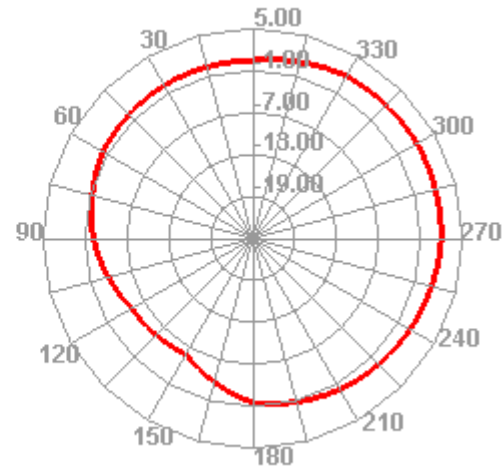


directional diagram

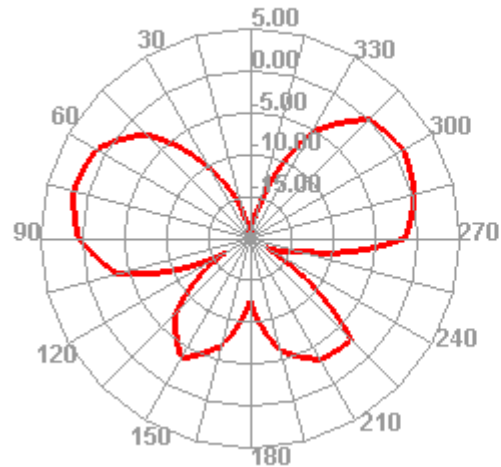
2500.000MHz



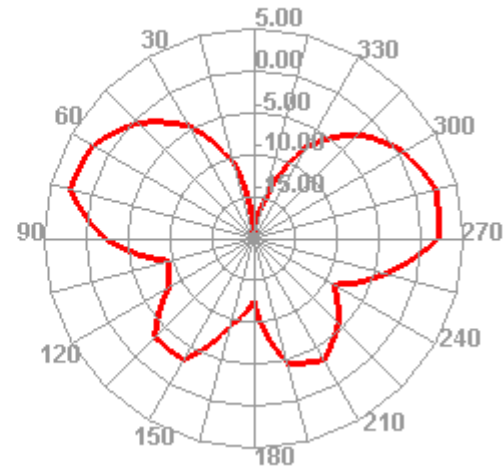
2500.000MHz H



2500.000MHz E1

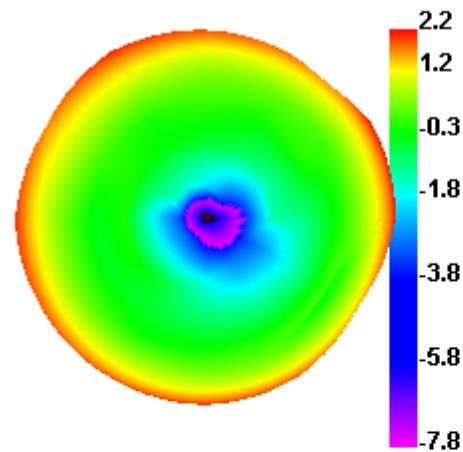


2500.000MHz E2

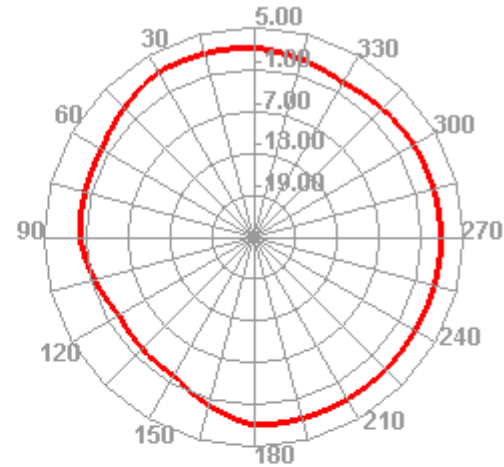


directional diagram

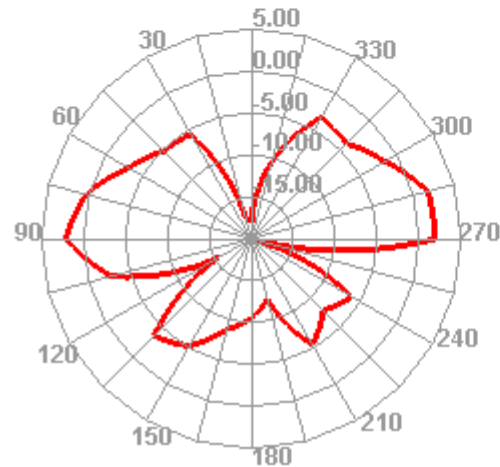
5150.000MHz



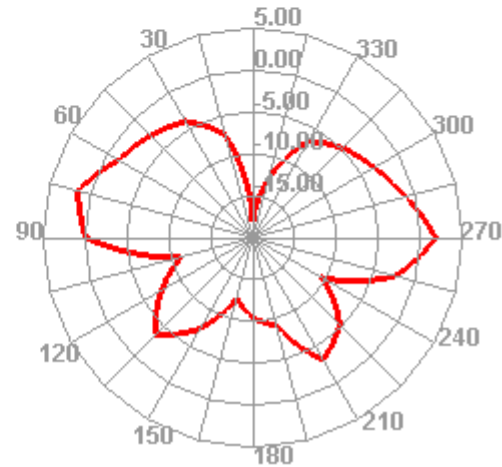
5150.000MHz H



5150.000MHz E1

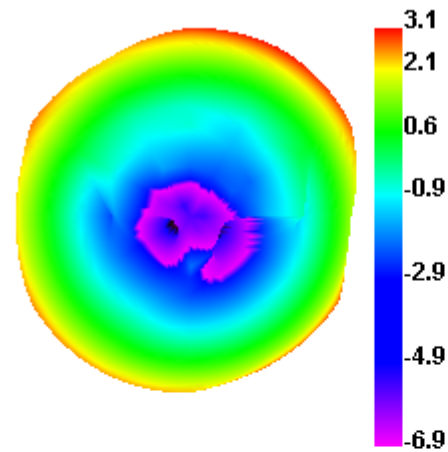


5150.000MHz E2

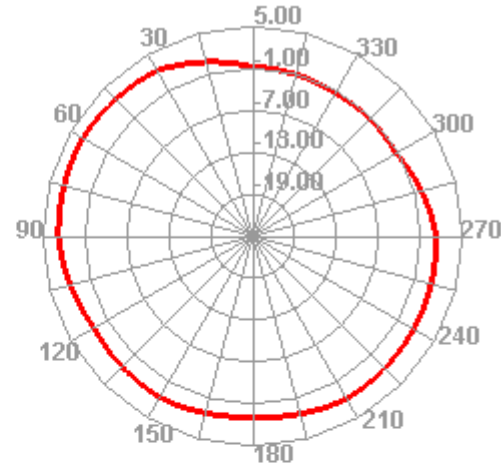


directional diagram

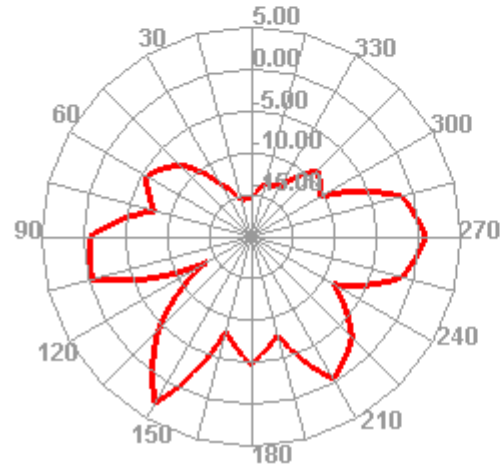
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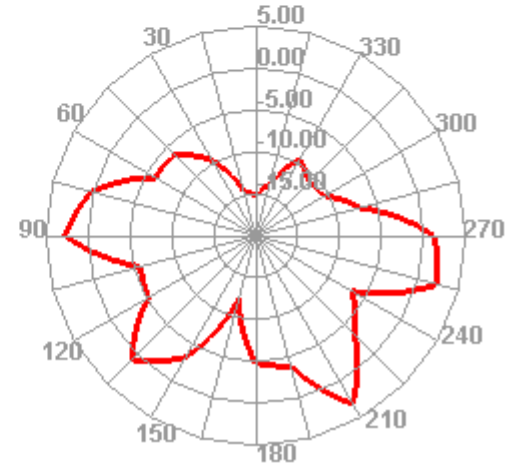
5500.000MHz H



5500.000MHz E1

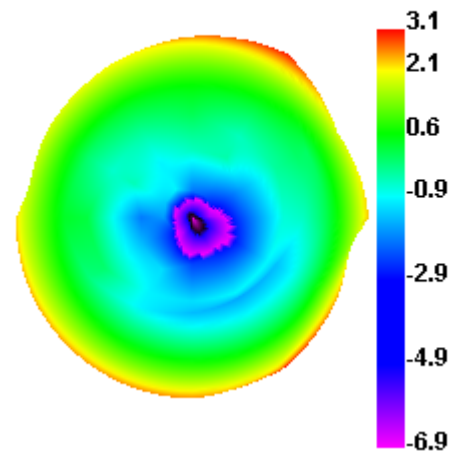


5500.000MHz E2

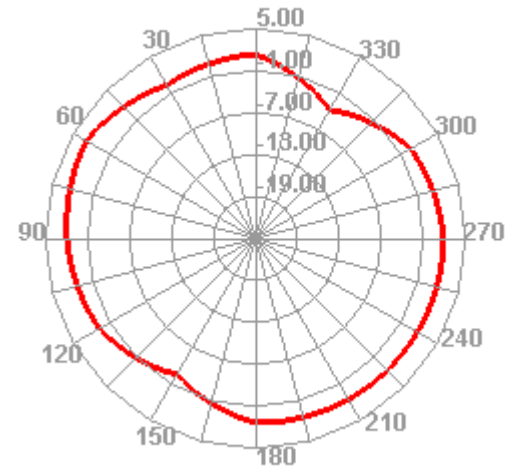


directional diagram

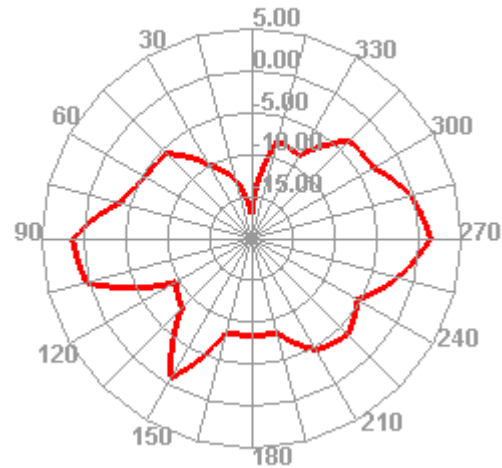
5850.000MHz



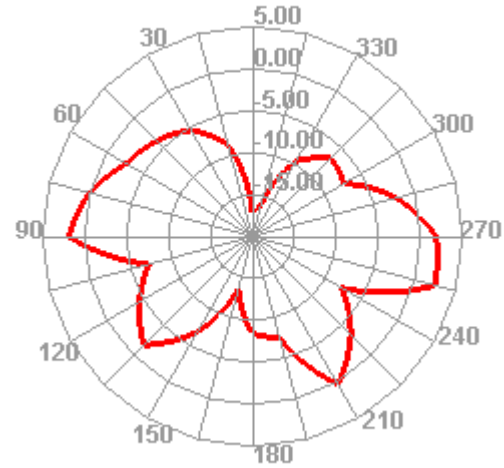
5850.000MHz H



5850.000MHz E1



5850.000MHz E2





**THANK
YOU**