

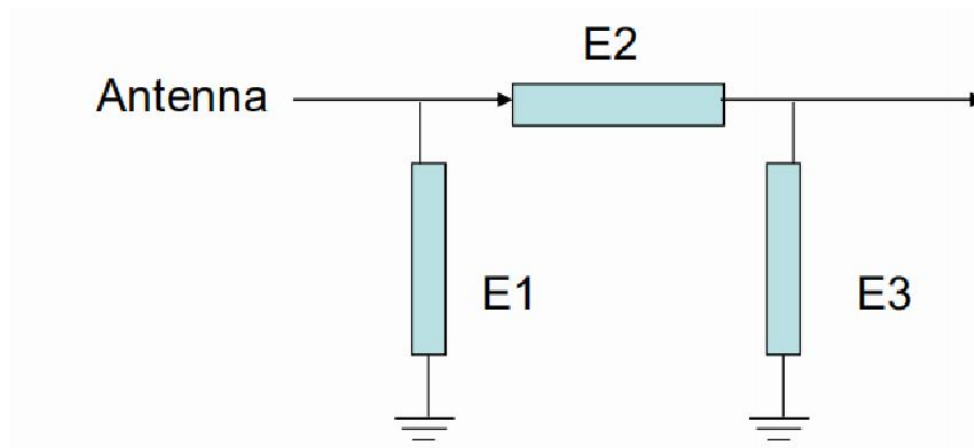
Customers: Tongli

Project name: TE320K

RF engineer: LEIYA0B0

Report edition: 20250915

TE320K project match



The original logic and
original matching
remain unchanged

● A Brief Introduction to debugging the project

Plate type	The whole machine						
Antenna Overview	The main antenna	Frequency band		Antenna status	Antenn a form	Design area	Match the changes
		2G	W1/2/4/5/8	Gold-plated FPC	PIFA	The bottom of the phone	NO
		3G					
		4G	LTE1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66/34/38/39/40/41				
		5G	N/A				
	Other antennas	BT/WIFI	2. 4G/5G	Gold-plated FPC	PIFA	Top of the phone	No
		GPS	1575. 42MHZ				No
		Diversity	N/A	Gold-plated FPC	PIFA	Top of the phone	No
Prototype status	TE320K Debugging machine		Environmental treatment				

Main antenna anechoic chamber data ()

	Channel	RP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)			Channel	RP (dBm)	TIS (dBm)
FDD B1	18050	19.22		FDD B13			18.34		FDD B28A		27260	19.64	
	18300	19.01			23230	18.99	-90.87				27360	19.06	
	18550	19.67	-92.07				18.65				27469	19.12	-92.1
FDD B2	20450	19.33		FDD B17	23780	17.45			FDD B28B		27410	19.84	
	20525	19.44			23790	17.75					27510	19.23	
	20600	19.2	-92.32		23800	18.8	-91.47				27600	19.22	-92.7
FDD B3	19250	19.17		FDD B18	23900	19.7			FDD B66		132022	19.37	
	19575	19.75			23925	19.59					132322	19.47	
	19900	19.01	-91.25		23950	19.61	-92.47				132622	19.88	-94.3
FDD B4	20000	18.89		FDD B19	24050	19.98			TDD B34		36250	18.43	
	20175	18.65			24075	19.37					36275	18.48	
	20350	19.23	-92.05		24100	19.42	-91.85				36300	18.72	-91.62
FDD B5	20450	19.85		FDD B20	24200	19.16			TDD B38		37850	19.98	
	20525	19.82			24300	19.55					38000	19.79	
	20600	19.39	-92.27		24400	19.7	-92.58				38150	19.45	-91.27
FDD B7	20800	19.12		FDD B25	26090	19.91			TDD B39		38350	19.71	
	21100	19.67			26365	19.63					38450	19.35	
	21400	19.22	-92		26640	19.71	-92.77				38550	19.53	-91.9
FDD B8	21500	19.35		FDD B26	26740	19.12			TDD B40		38750	18.66	
	21625	19.13			26865	19.6					39150	18.32	
	21750	19.31	-90.43		26990	19.94	-92.5				39550	18.87	-91.26
FDD B12	23060	17.09							TDD B41		40490	19.89	
	23095	17.2									40620	19.53	
	23130	17.72	-90.35								40940	19.52	-91.68

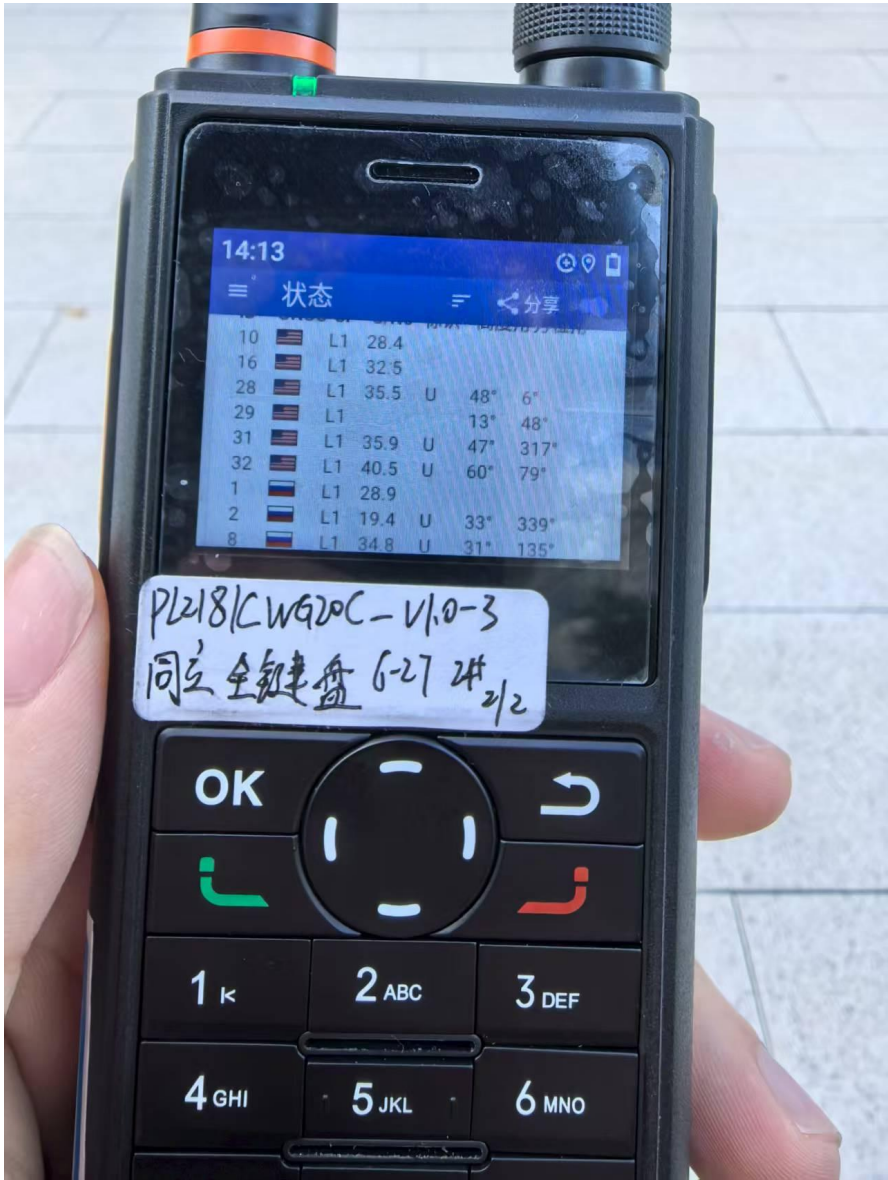
Main antenna anechoic chamber data ()

	Channel	TRP (dBm)	TIS (dBm)	
W1	9612	19.45		
	9612	19.83		
	9750	19.32	-103.21	
W2	9262	18.91		
	9400	18.75		
	9538	18.81	-103.76	
W4	1312	18.84		
	1413	18.85		
	1513	19.06	-102.61	
W5	4132	19.44		
	4183	19.34		
	4233	19.85	-102.78	
W8	2712	19.22		
	2787	19.56		
	2863	19.77	-100.8	

WIFI Active testing

WIFI						
BAND	WIFI B B-11M			WIFI A A-54M		
CHANNEL	1	6	11	36	64	165
TRP (dBm)	8.3	8.7	8.5	9.6	10.3	10.7
TIS (dBm)	-78.3	-80.4	-79.6	-71.3	-71.6	-71.5

GPS actual measurement



Antenna gain

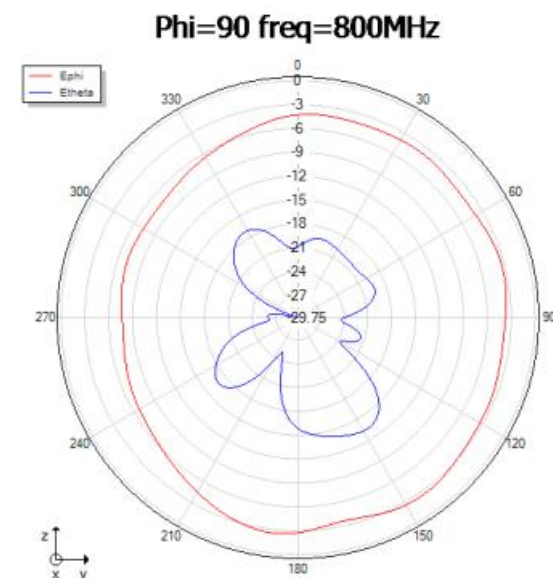
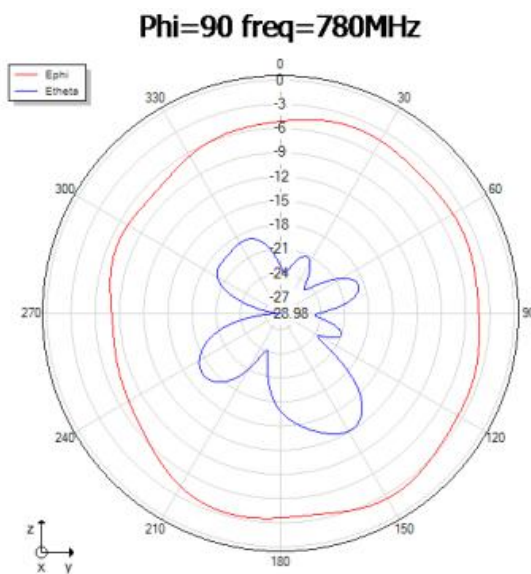
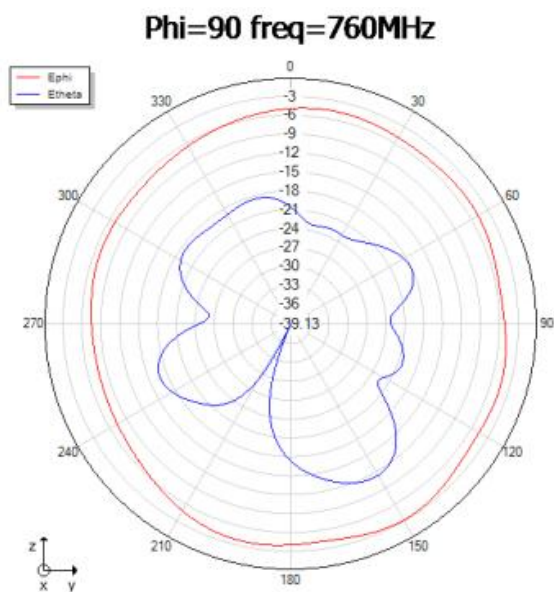
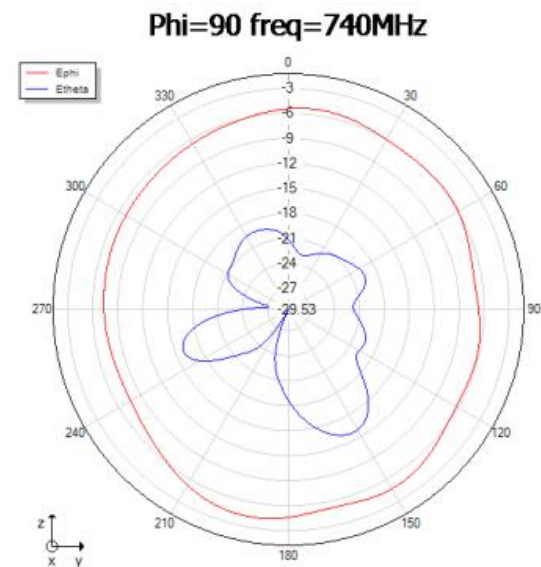
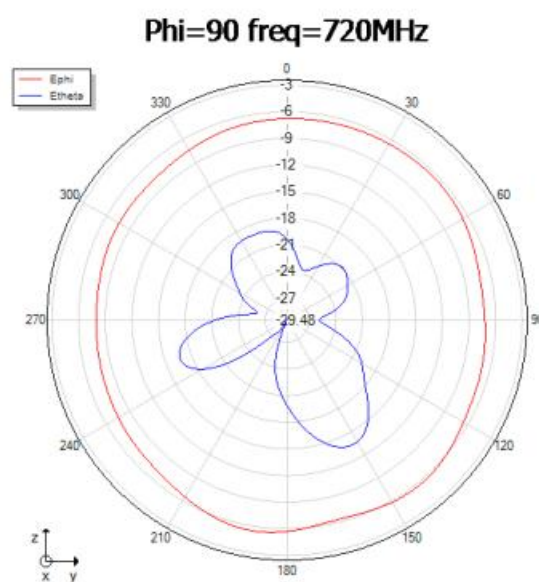
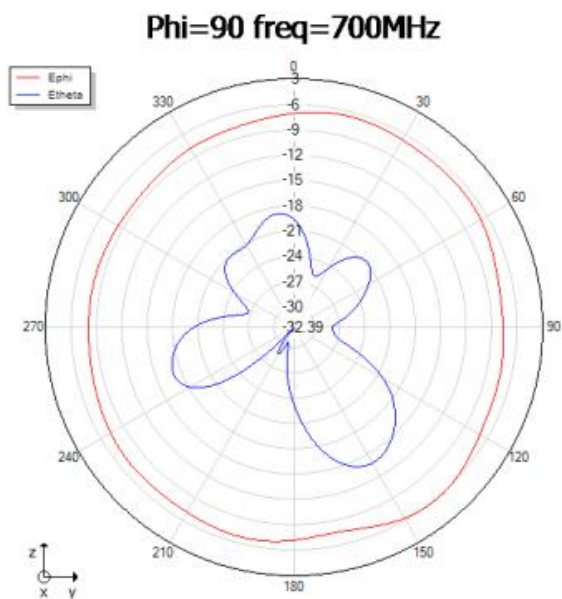
TE320K天线增益 TE320K Antenna Gain	
频段Frequency	增益Gain(dBi)
W1	2.91
W2	2.91
W4	2.4
W5	-1.5
W8	-0.35
LTE B1	2.91
LTE B2	2.91
LTE B3	2.4
LTE B4	2.4
LTE B5	-1.5
LTE B7	1.17
LTE B8	-0.35
LTE B12	-3.3
LTE B13	-2.4
LTE B17	-2.8
LTE B18	-1.52
LTE B19	-1.54

以上单位为：dBi

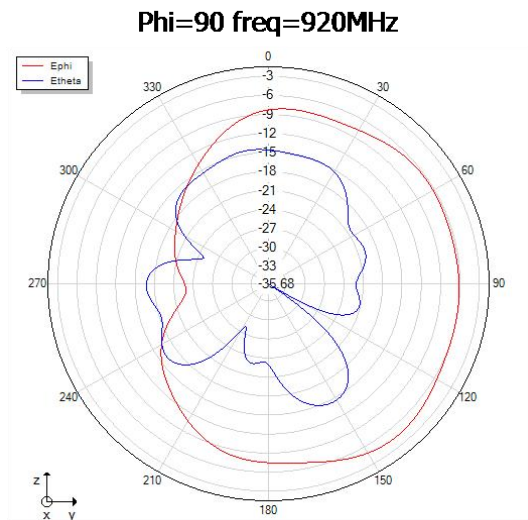
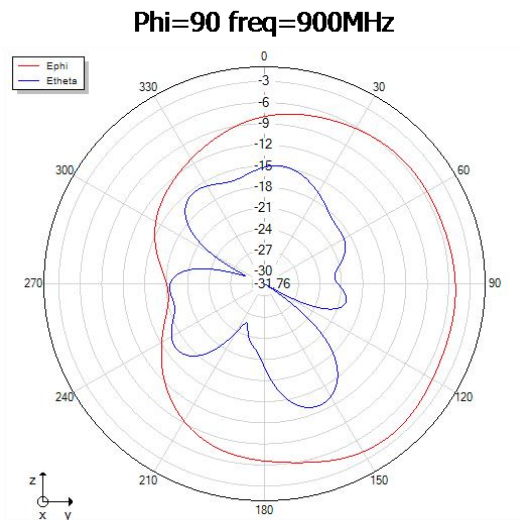
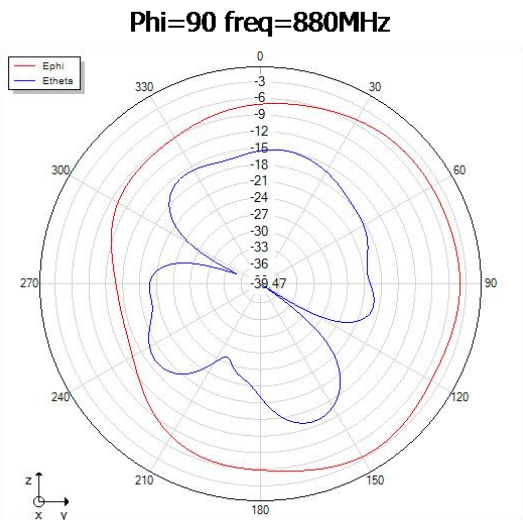
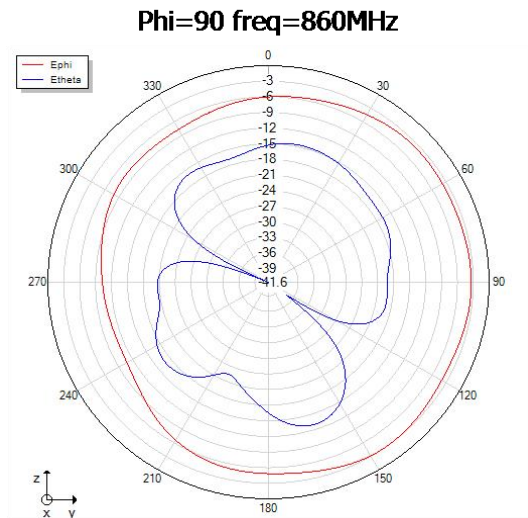
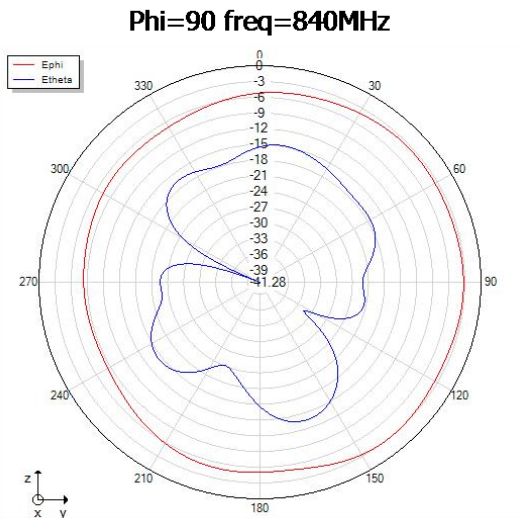
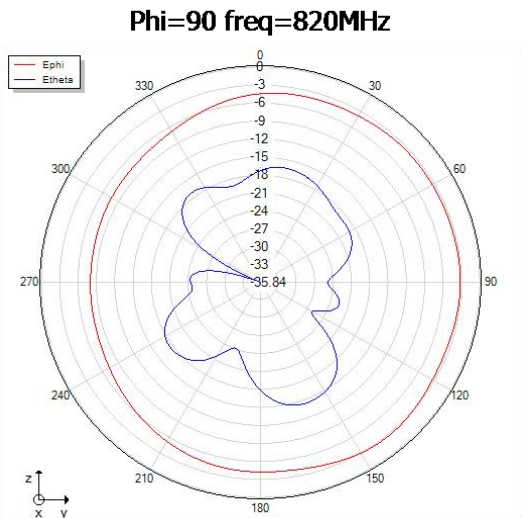
TE320K天线增益 TE320K Antenna Gain	
频段Frequency	增益Gain(dBi)
LTE B20	-1.51
LTE B25	2.76
LTE B26	-1.54
LTE B28	-2.54
LTE B66	2.42
LTE B34	2.87
LTE B38	0.75
LTE B39	2.63
LTE B40	1.35
LTE B41	1.23
GPS	0.91
2.4WIFI	2.5
5GWIFI	2.2
BT	2.5

以上单位为：dBi

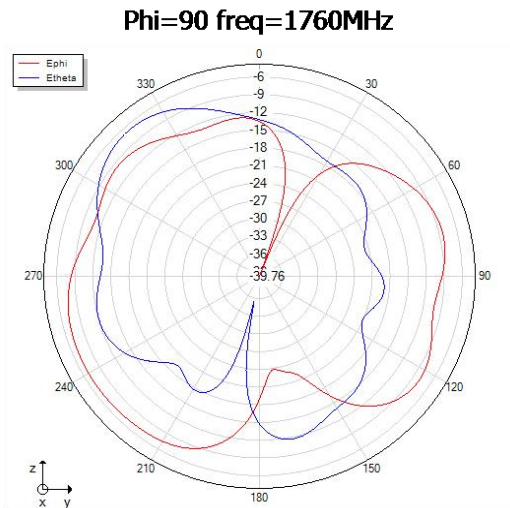
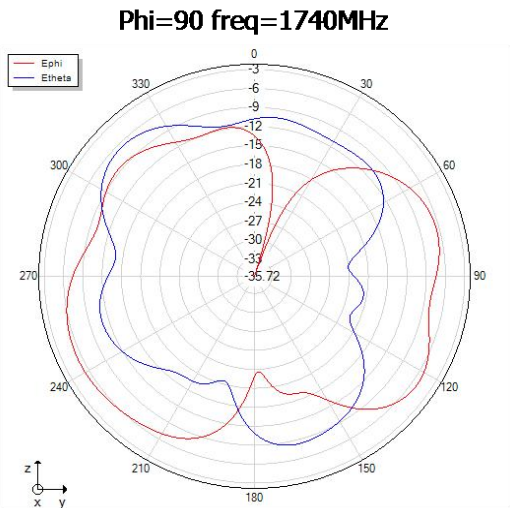
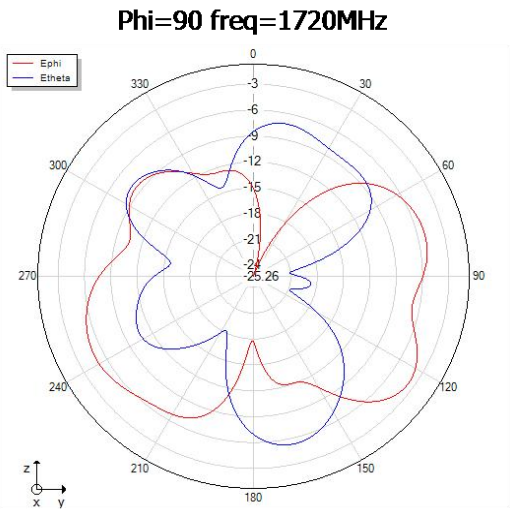
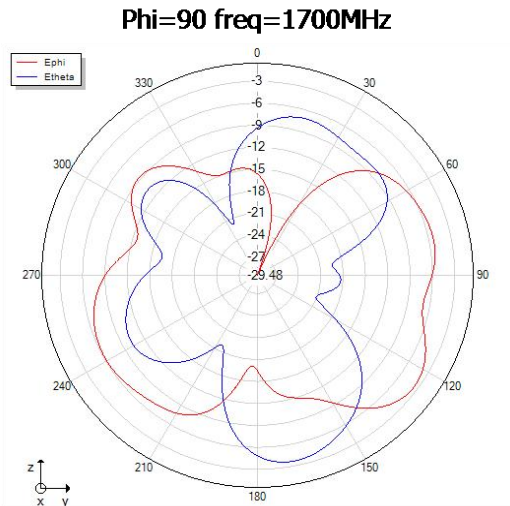
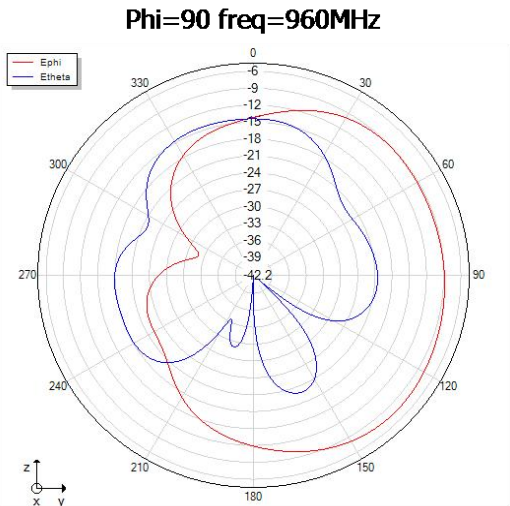
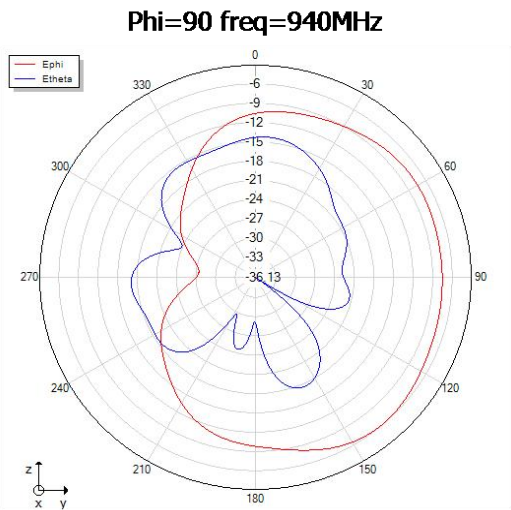
Lobe diagram



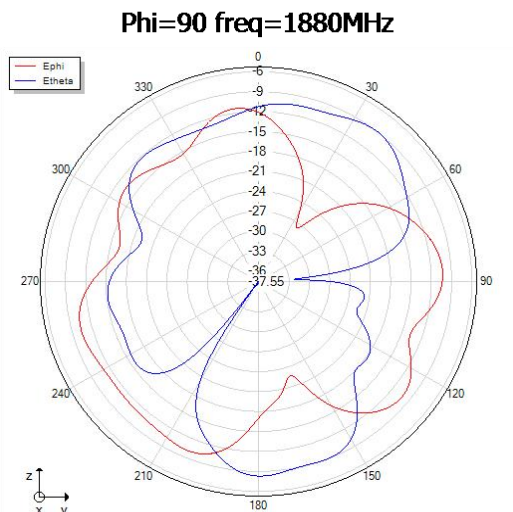
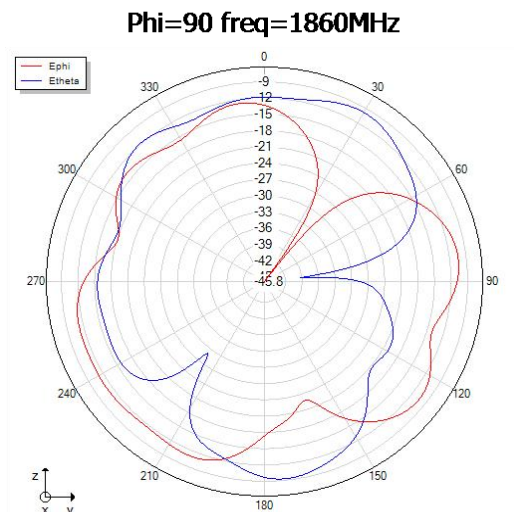
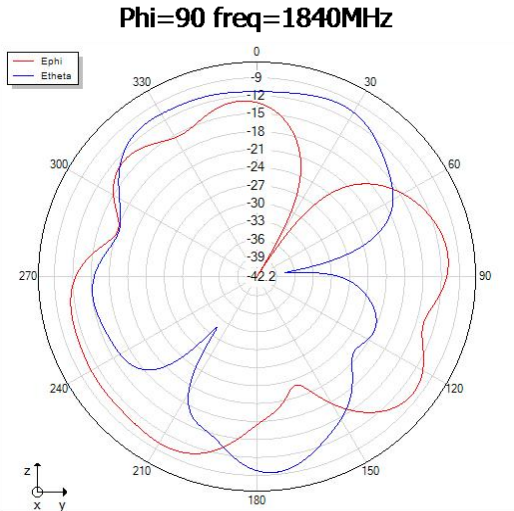
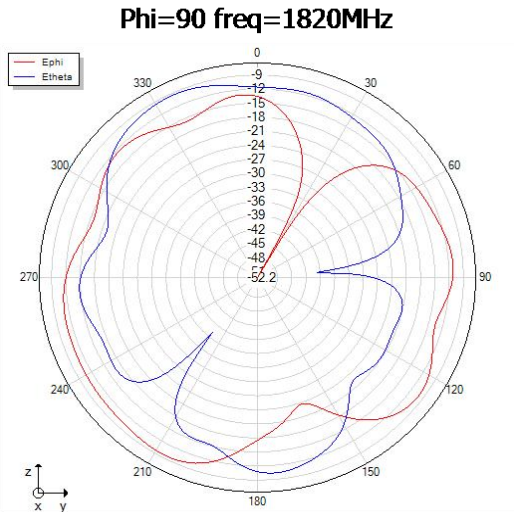
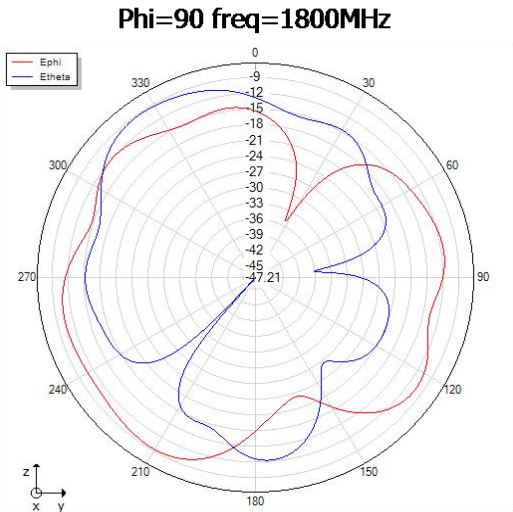
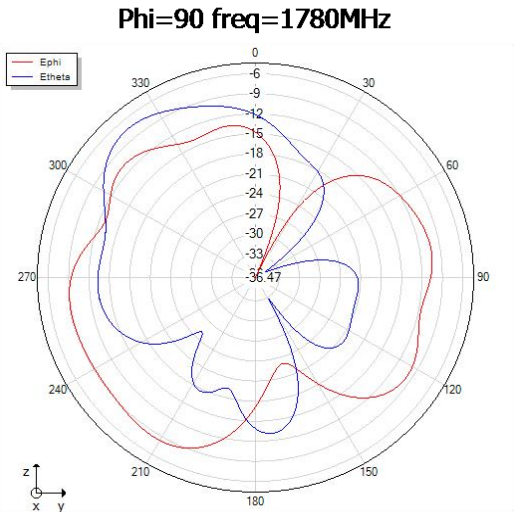
Lobe diagram



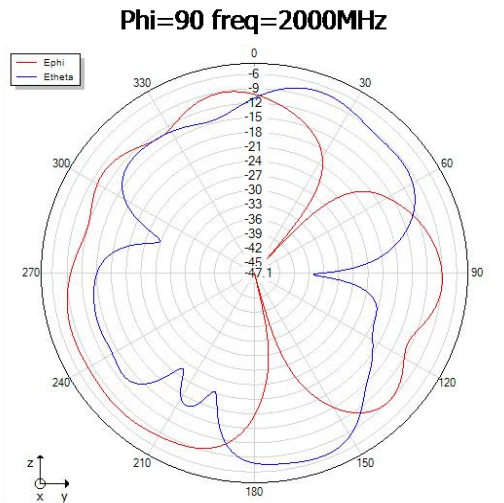
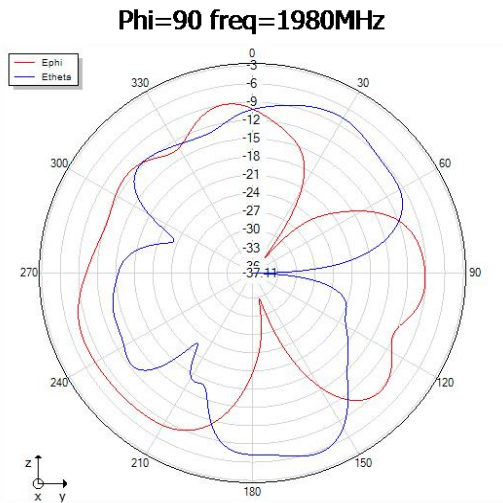
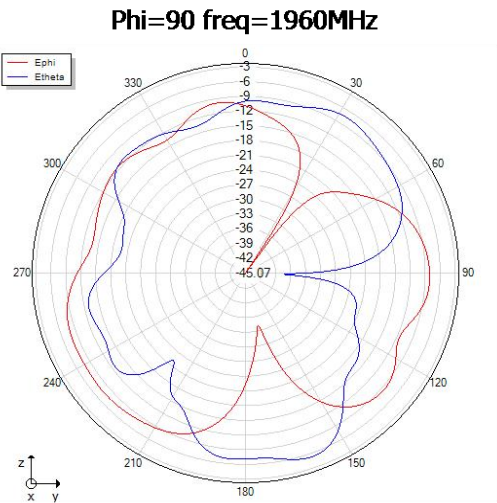
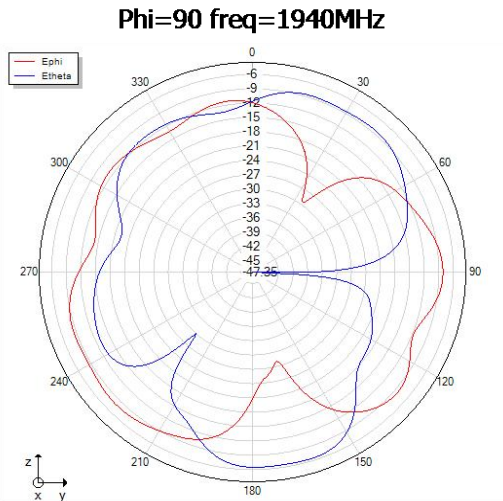
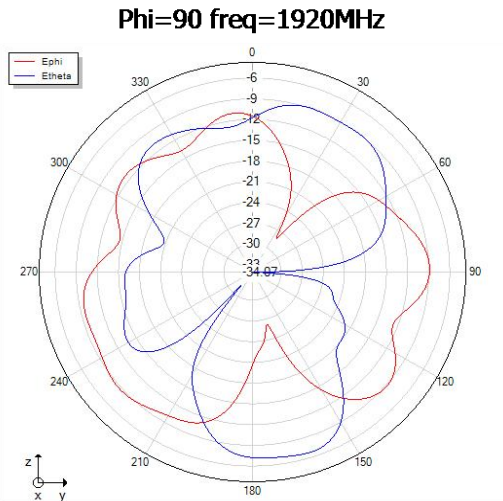
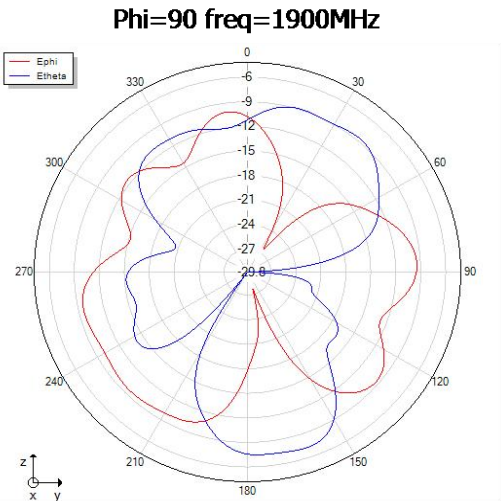
Lobe diagram



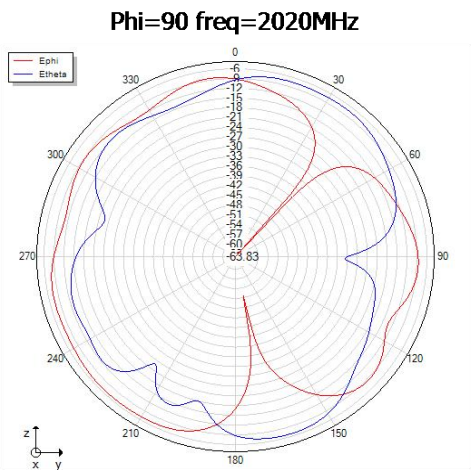
Lobe diagram



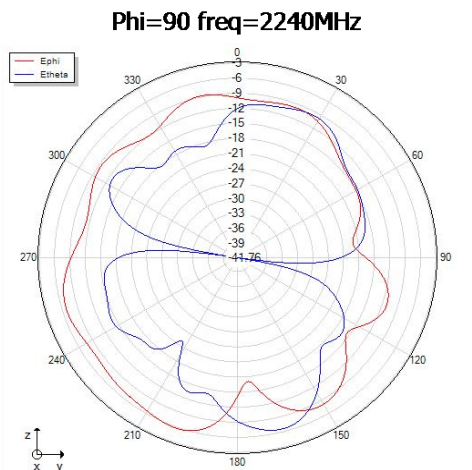
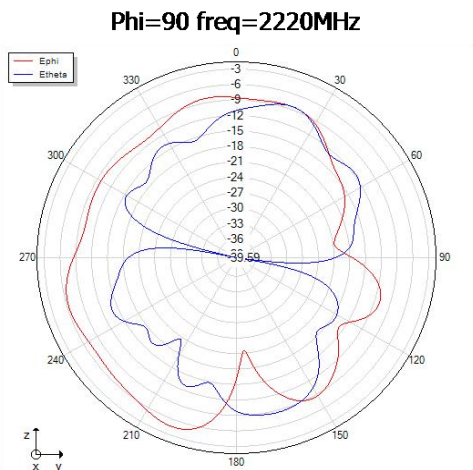
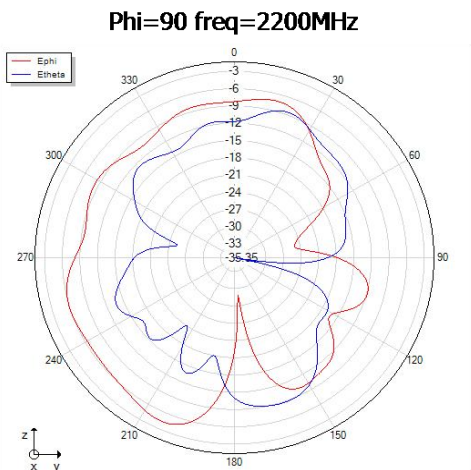
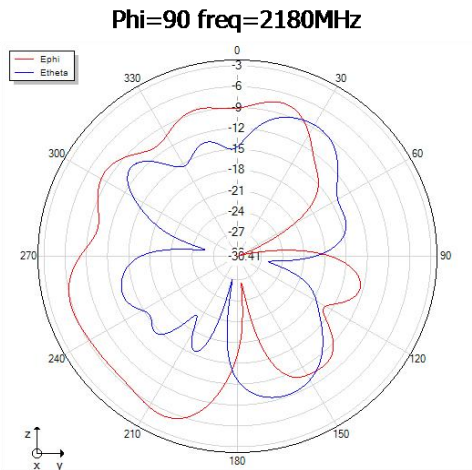
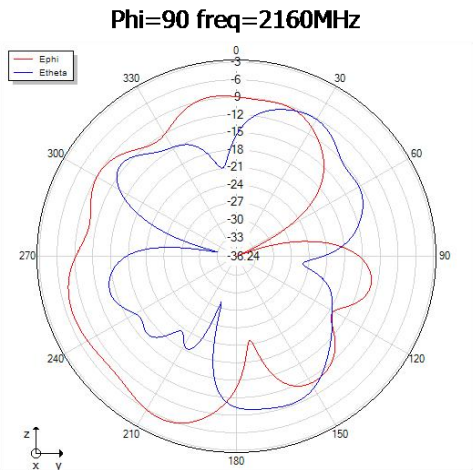
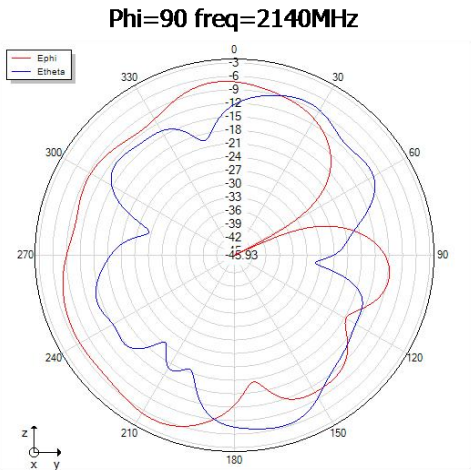
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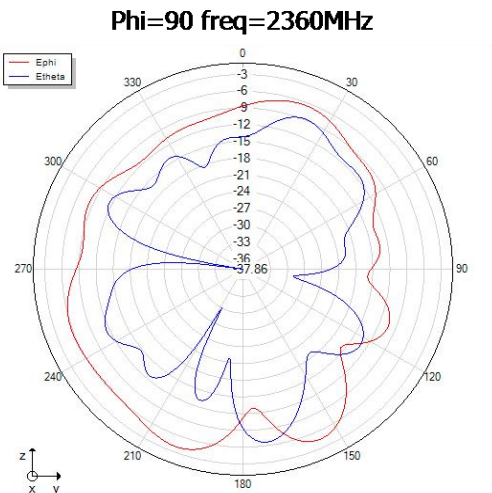
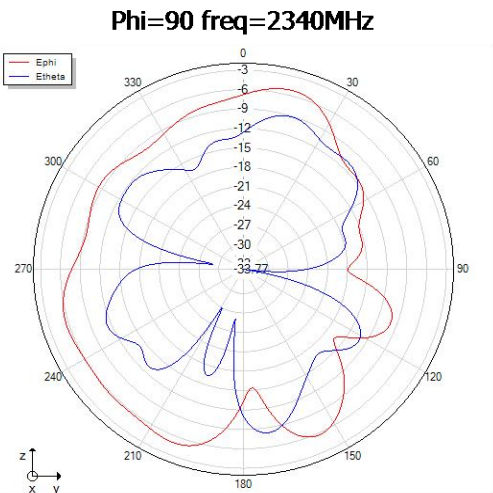
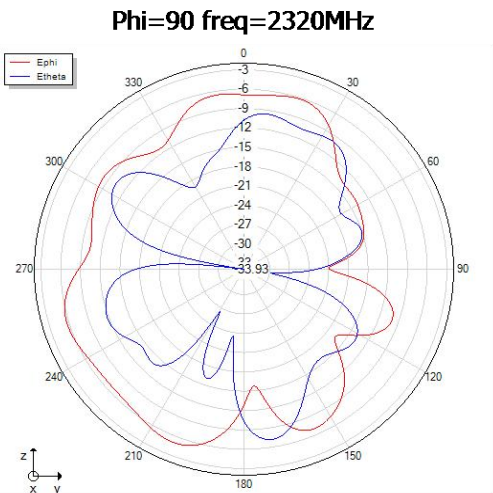
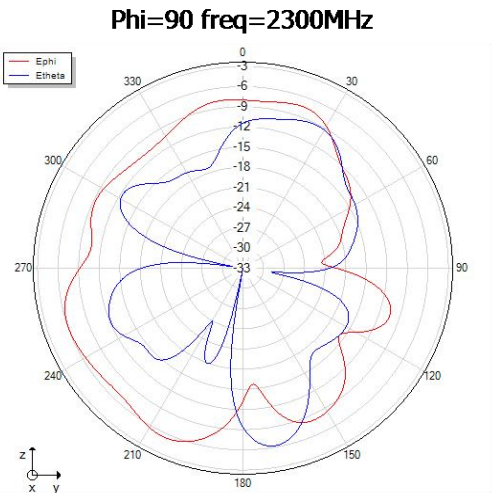
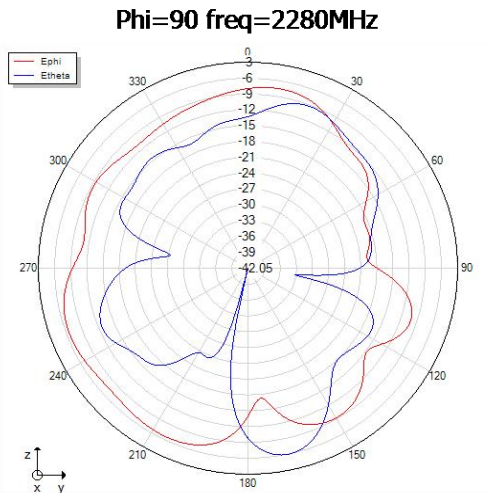
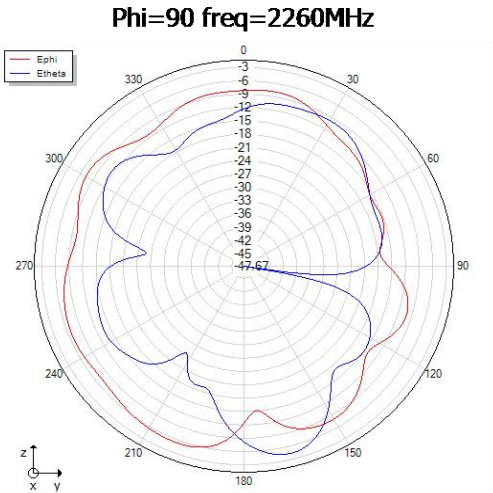
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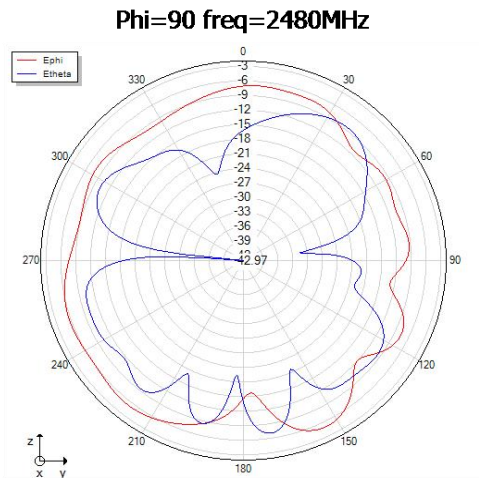
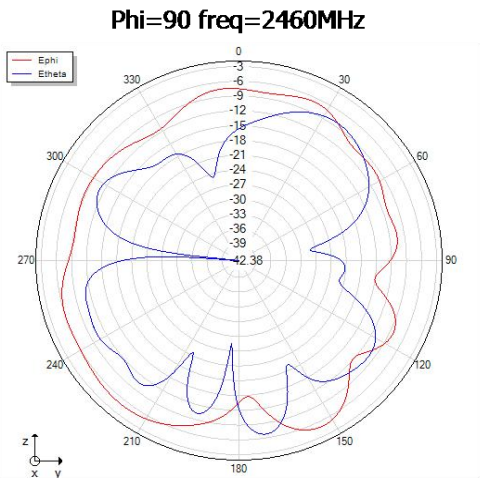
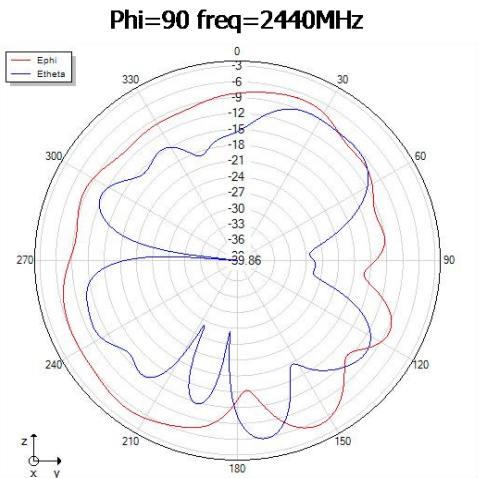
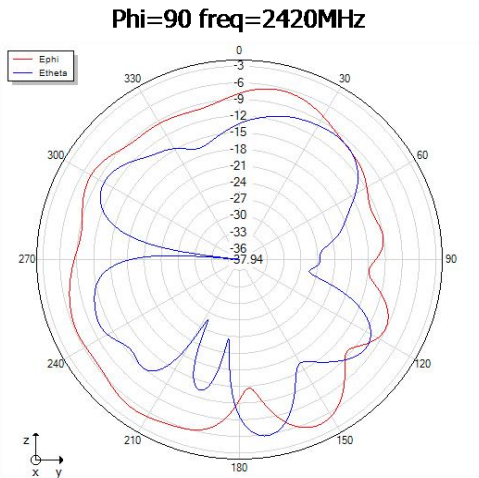
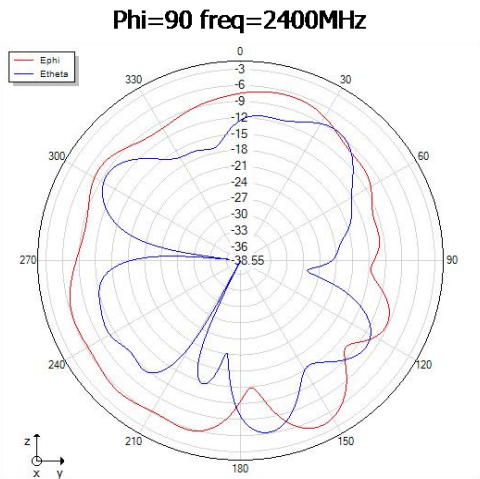
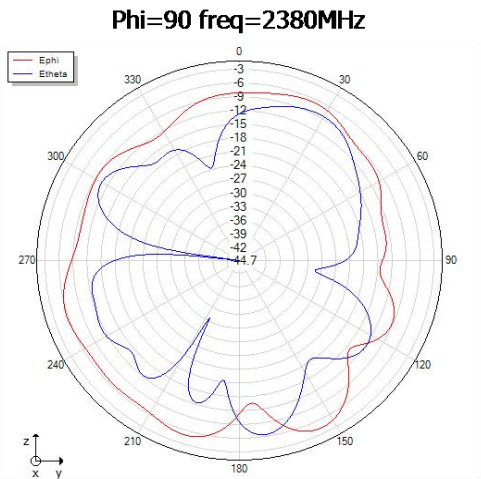
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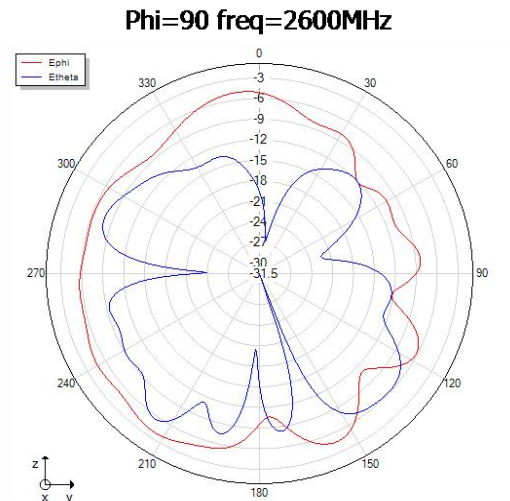
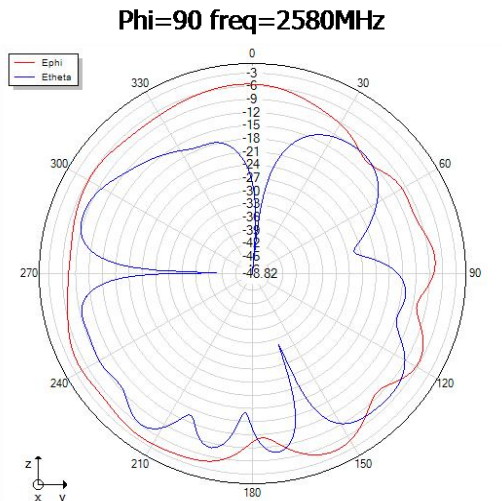
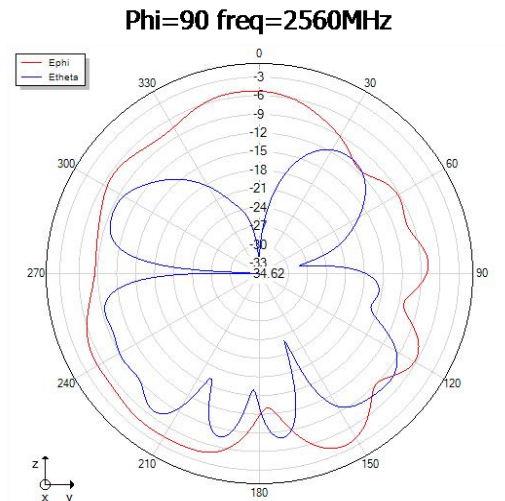
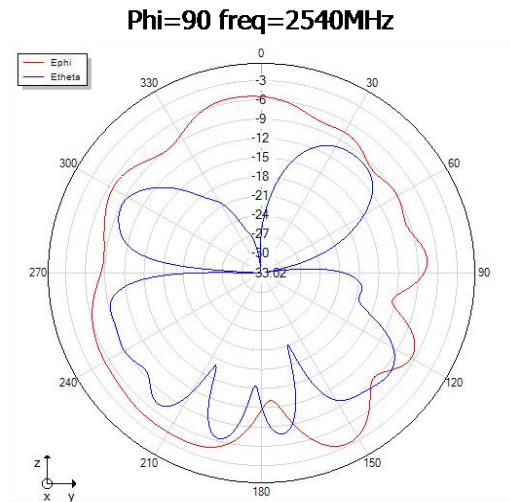
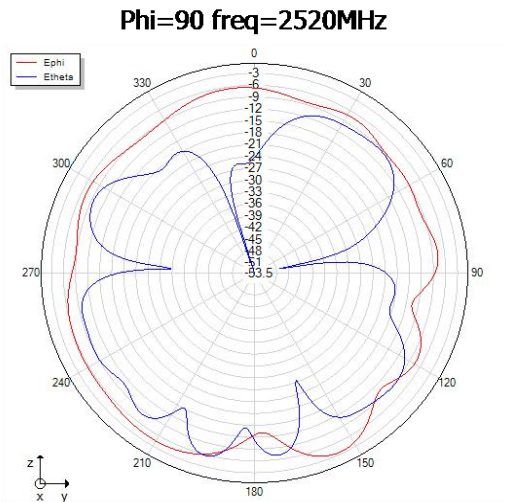
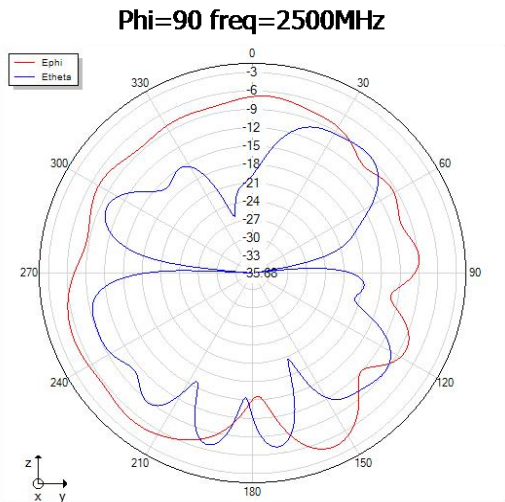
Lobe diagram



Lobe diagram

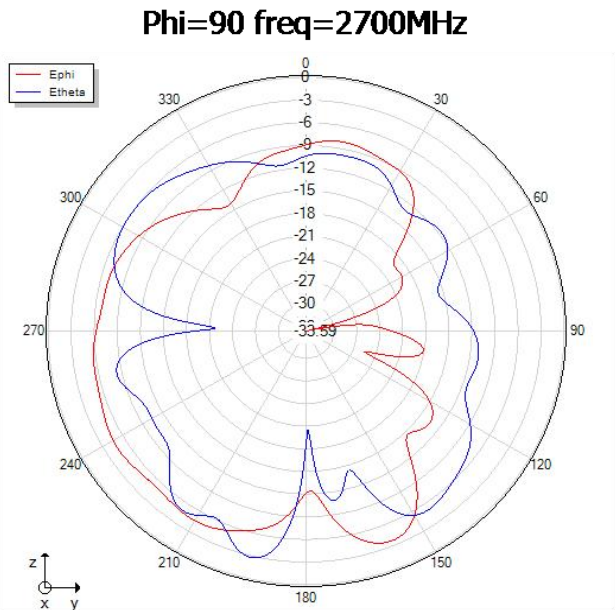
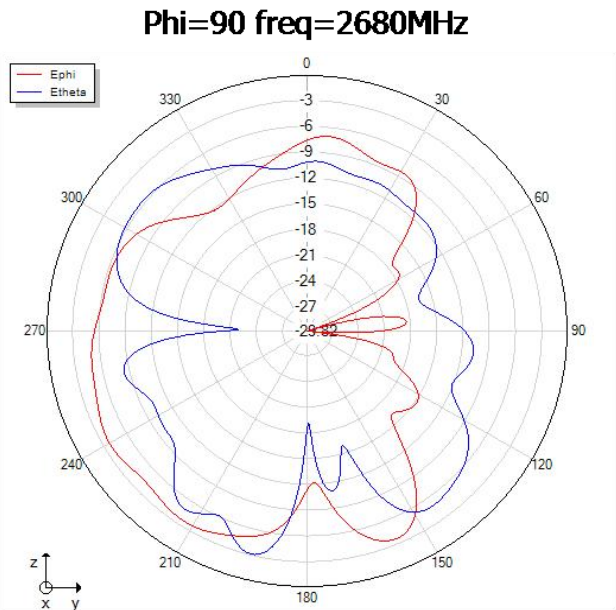
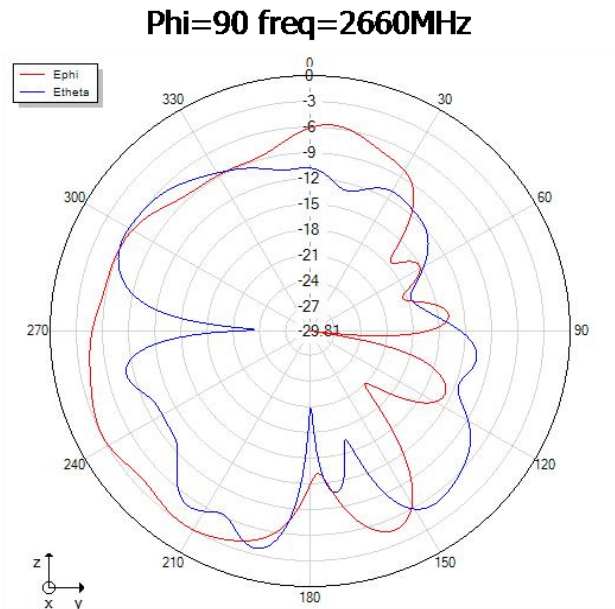
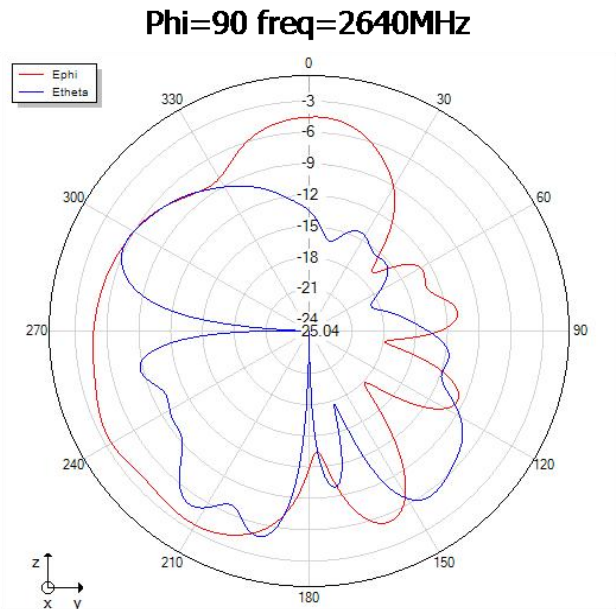
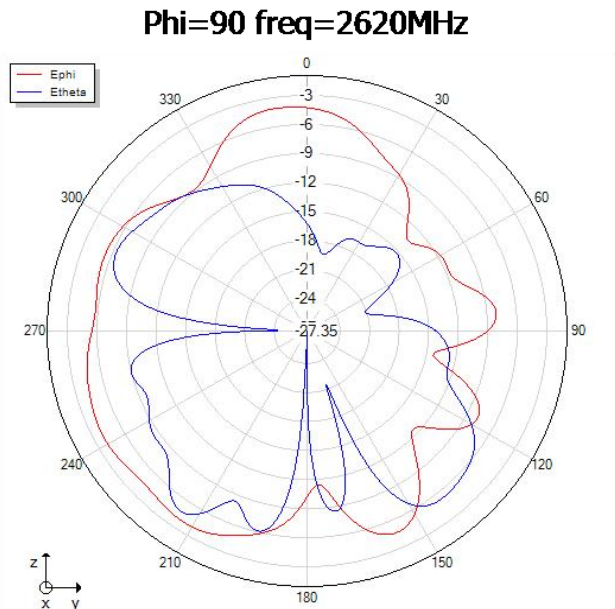


Lobe diagram

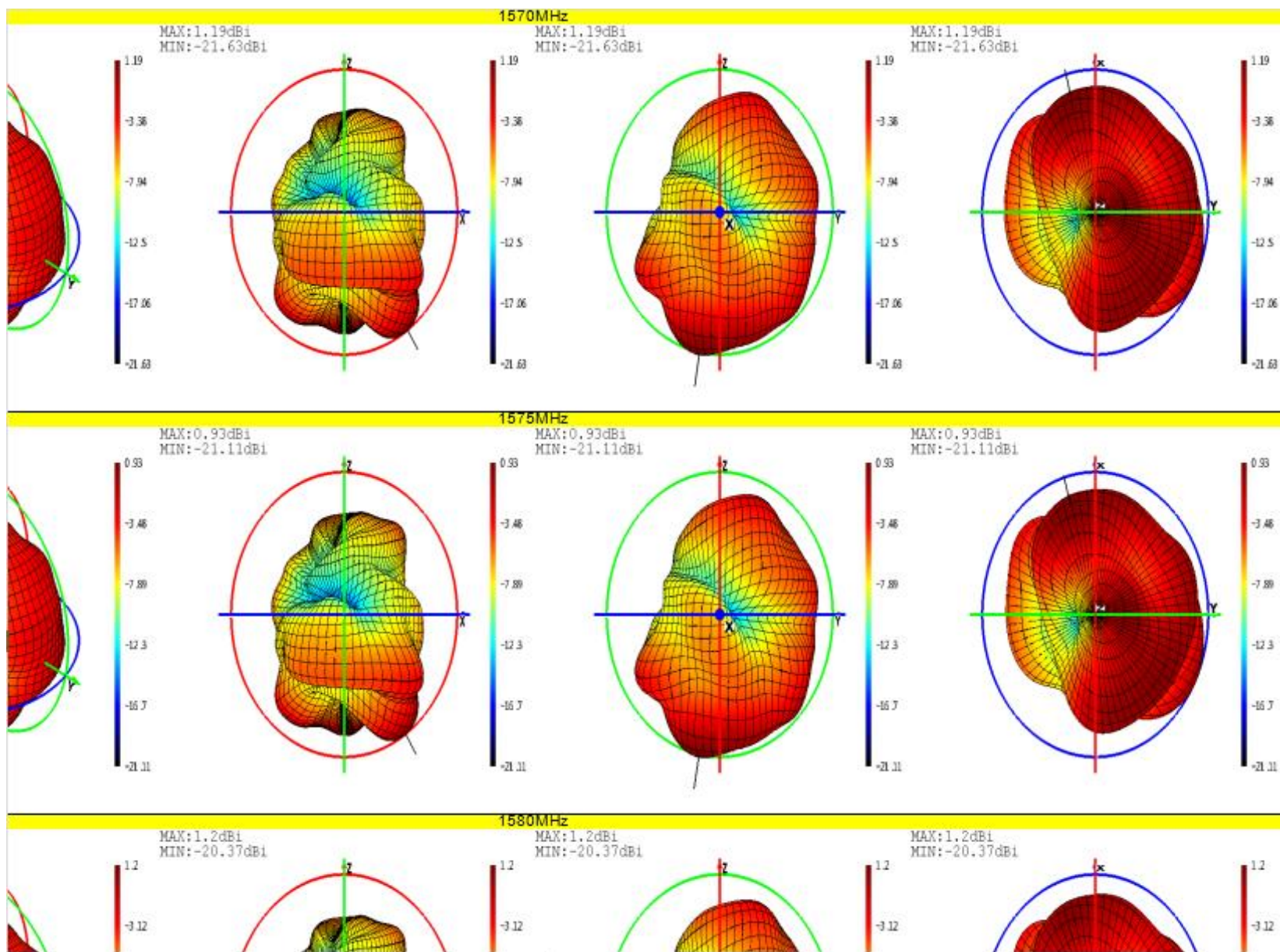


Lobe diagram

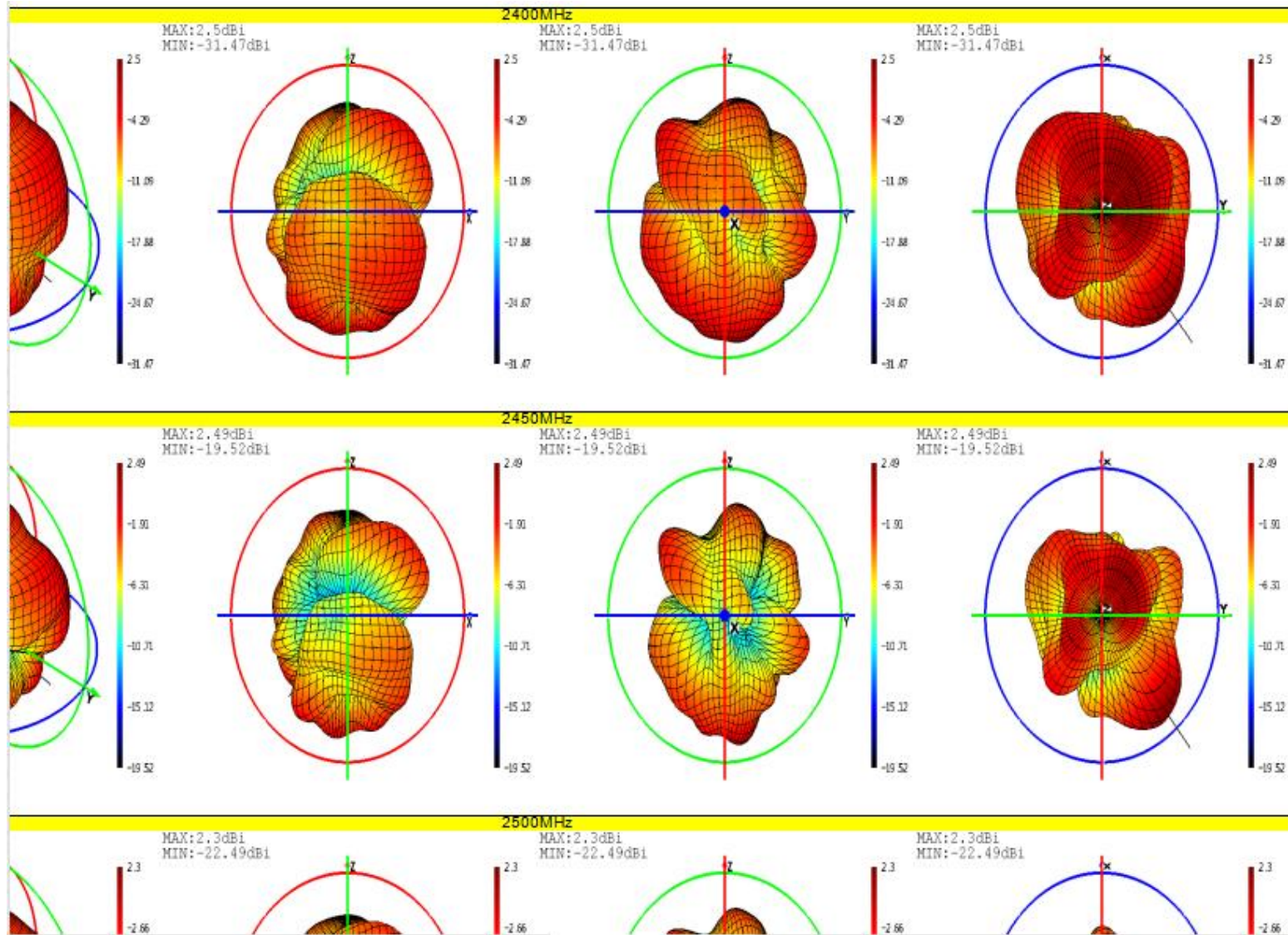
Shenzhen CloudTop Electronics Co., Ltd.



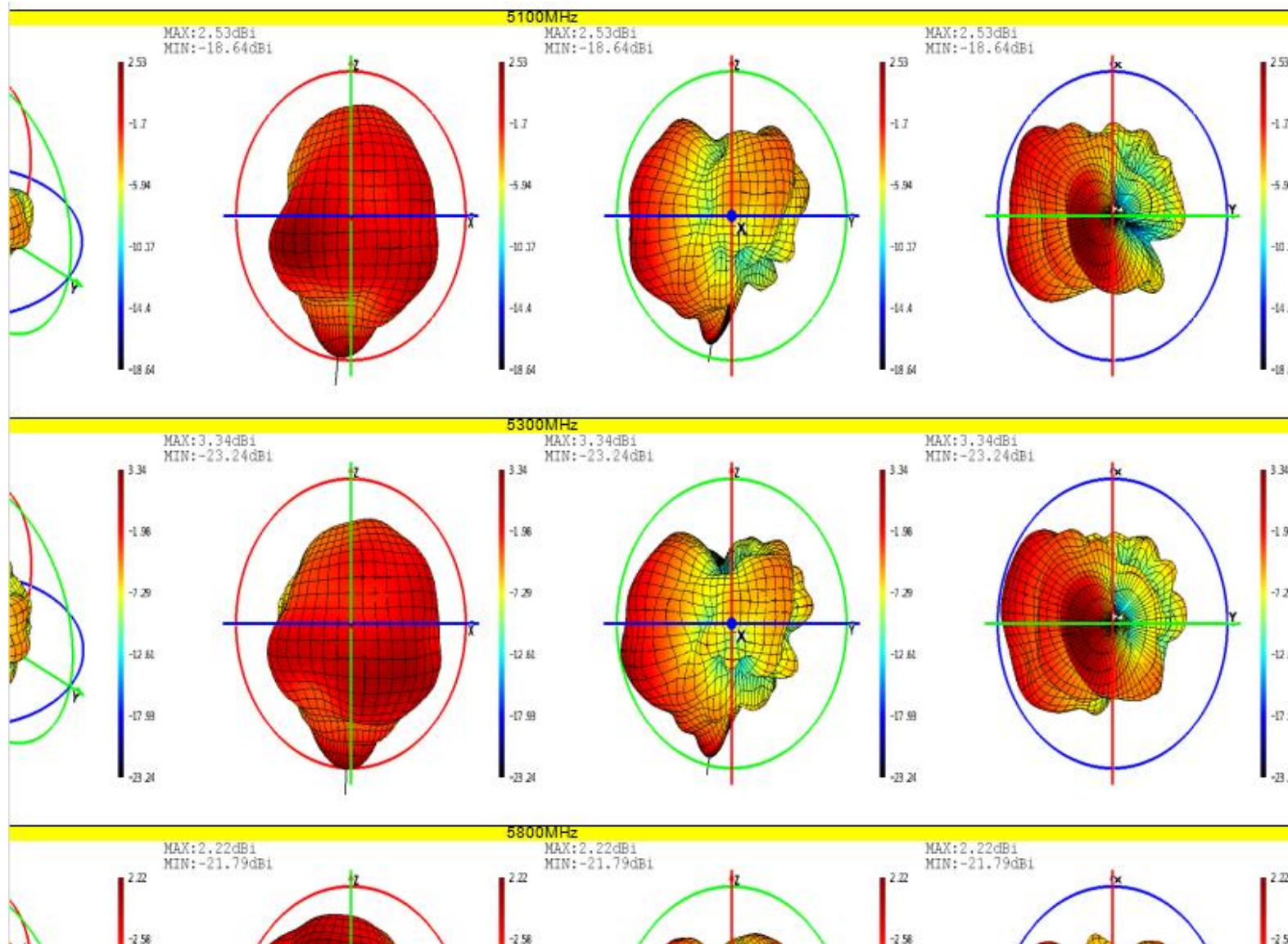
GPS antenna apple diagram



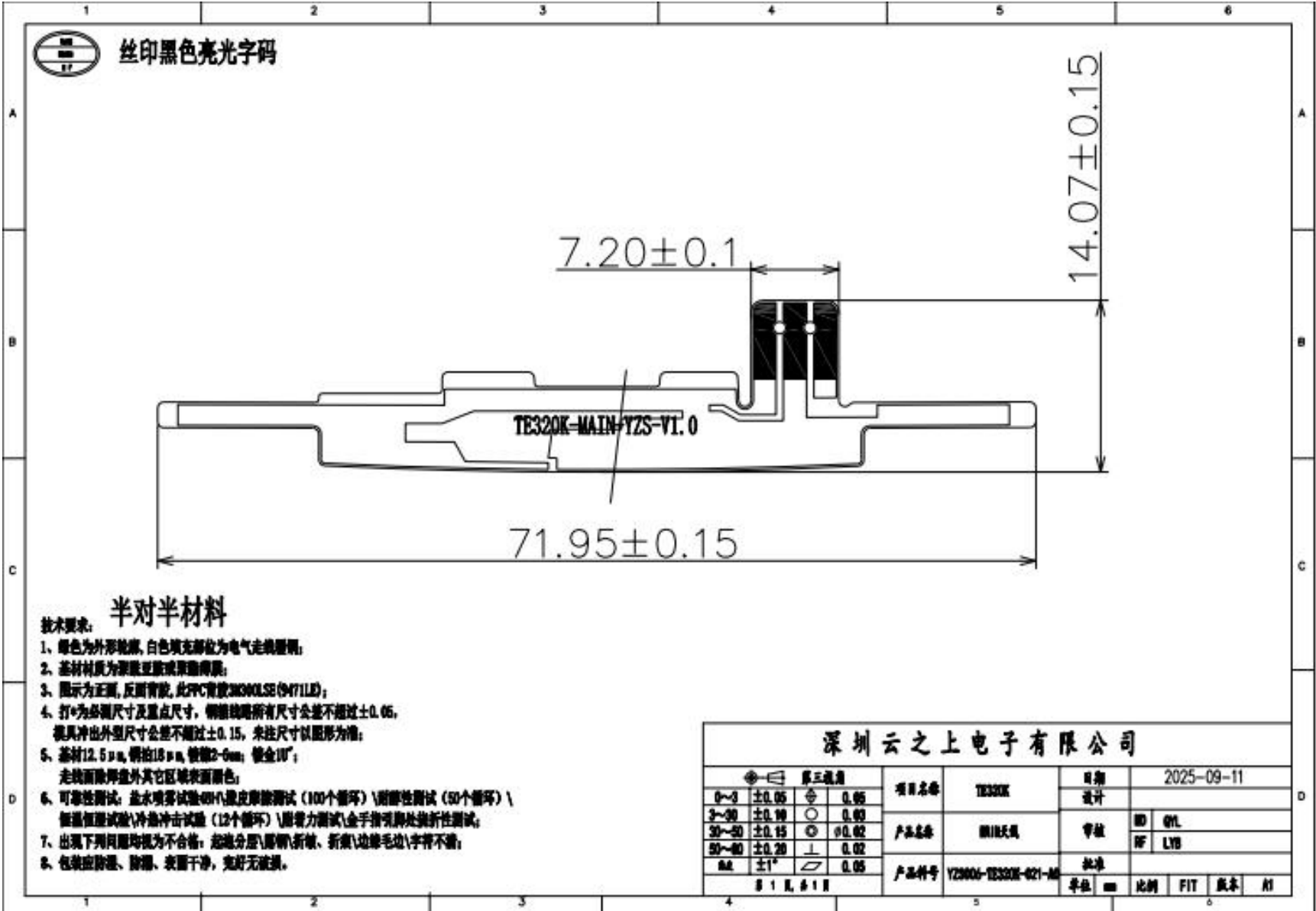
2. 4GWIFI/BT antenna apple diagram



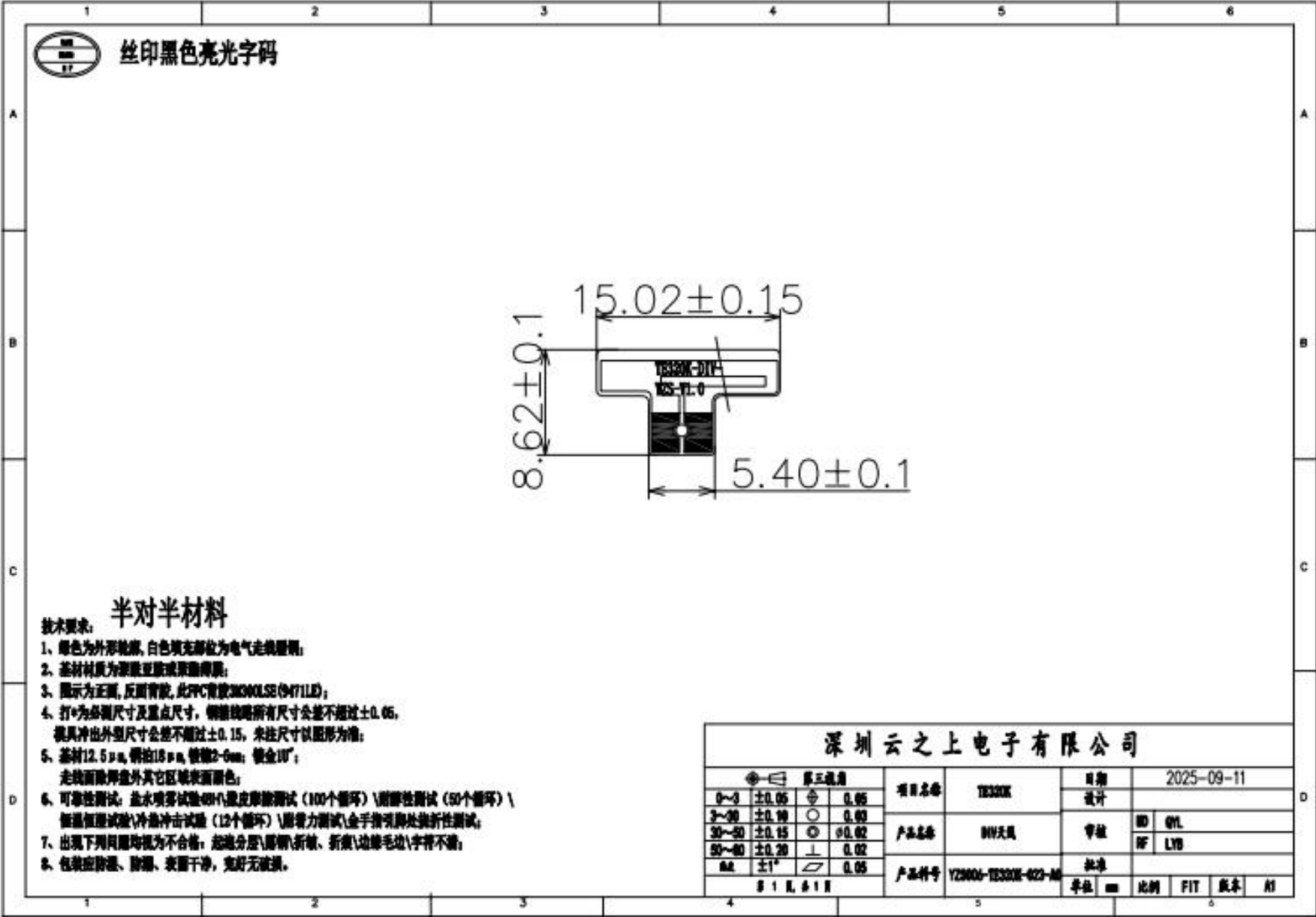
5GWIFI antenna apple diagram



Antenna size diagram



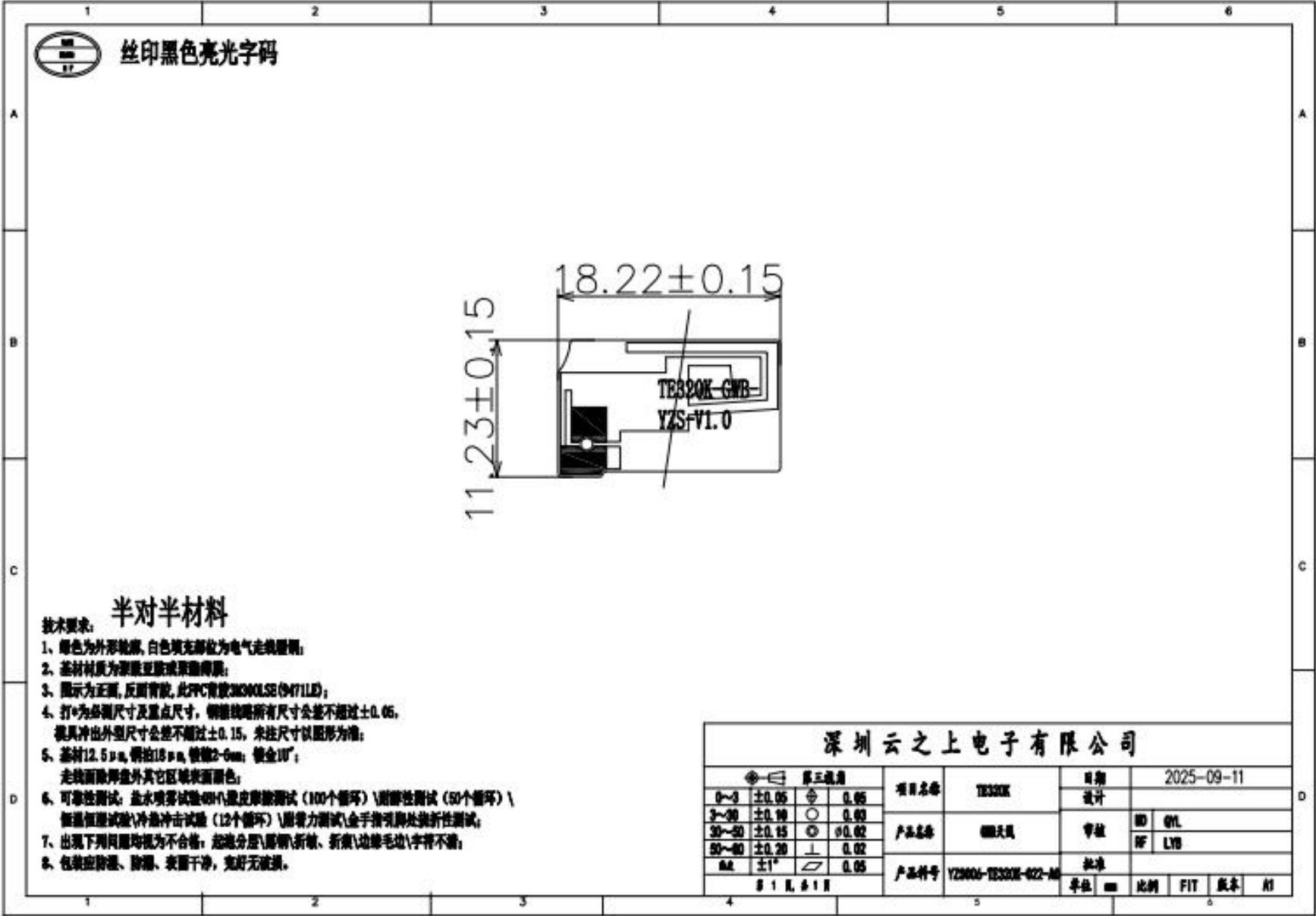
Antenna size diagram



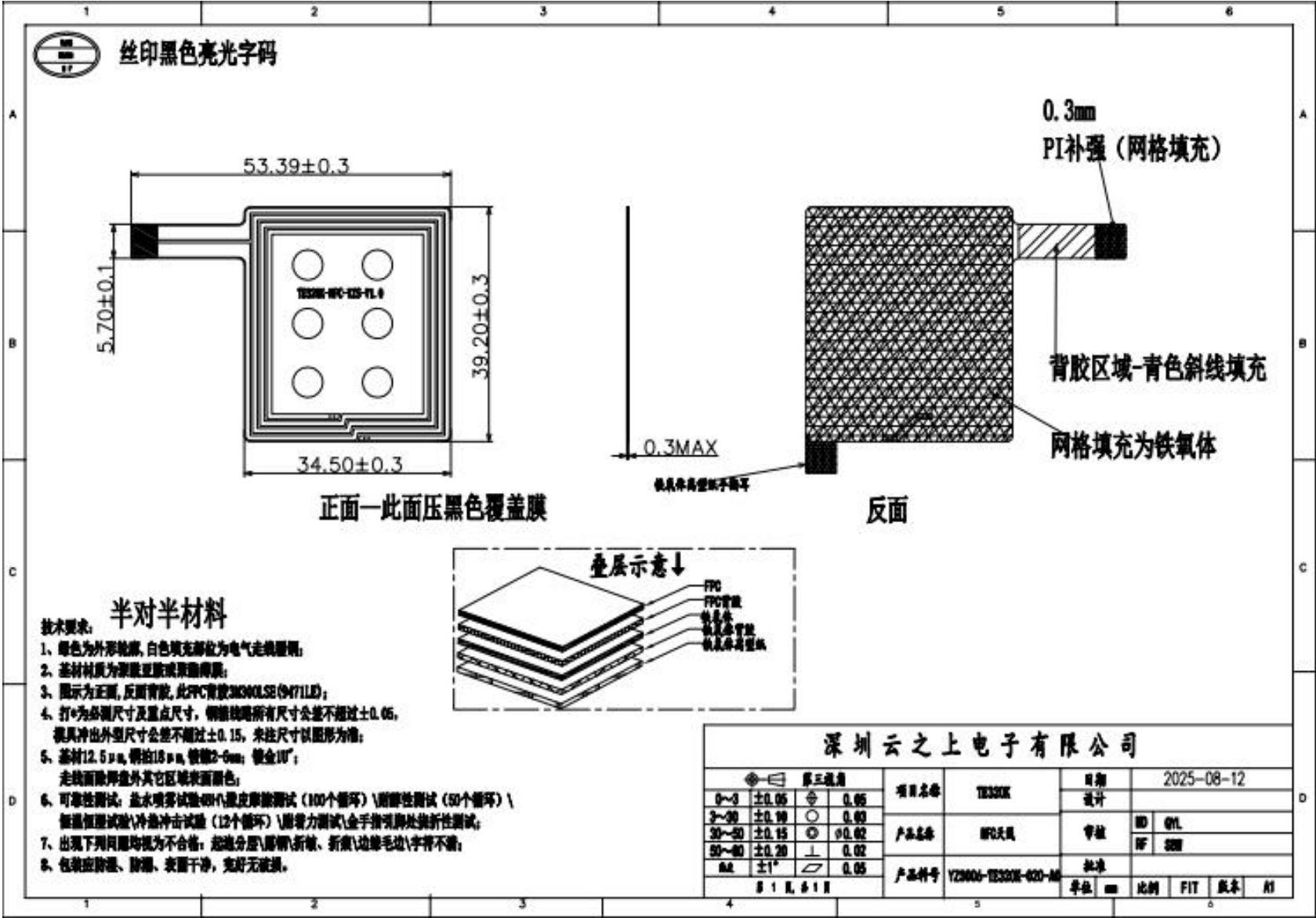
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Antenna size diagram

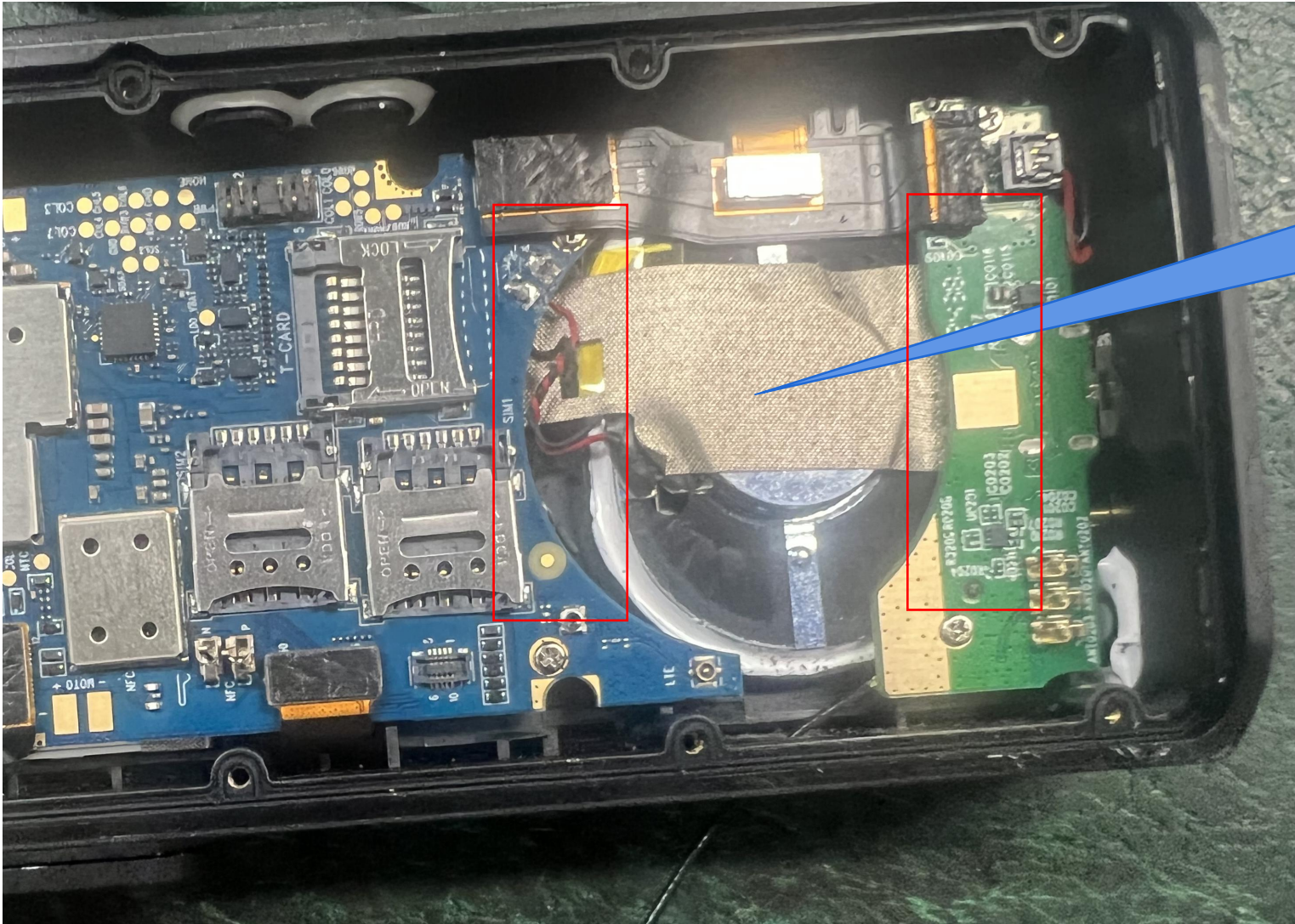
Shenzhen CloudTop Electronics Co., Ltd.



Antenna size diagram



Environmental treatment



Mainboard
small board
speaker
grounding

Environmental treatment

