

STXPA187650BAB433 Specification

433MHz Sucker Antenna

1. Feature

- * 433MHz Sucker Antenna
- * 433MHz of frequency
- * BNC Plug For RG-58 Cable
- * ROHS compliance

2. Application

- * 433MHz Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

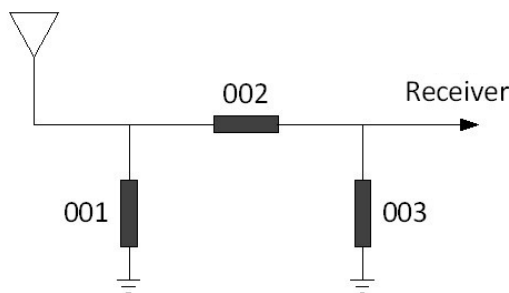
The antenna was specially designed by Shanghai Zhenyi Communication Technology Co. , Ltd, for 433MHz Sucker Antenna applications . It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Product Name	433MHz Sucker Antenna
Part No.	STXPA187650BAB433
Frequency	433MHz
V.S.W.R	≤2.0
Gain (dBi)	1.0(MAX)
Polarization	Vertical
Storage Temp	-30℃~+70℃
Operating Temperature	-30℃~+70℃
Impedance with Matching	50 Ω
Dimension	H182.6* Φ 76 (mm)

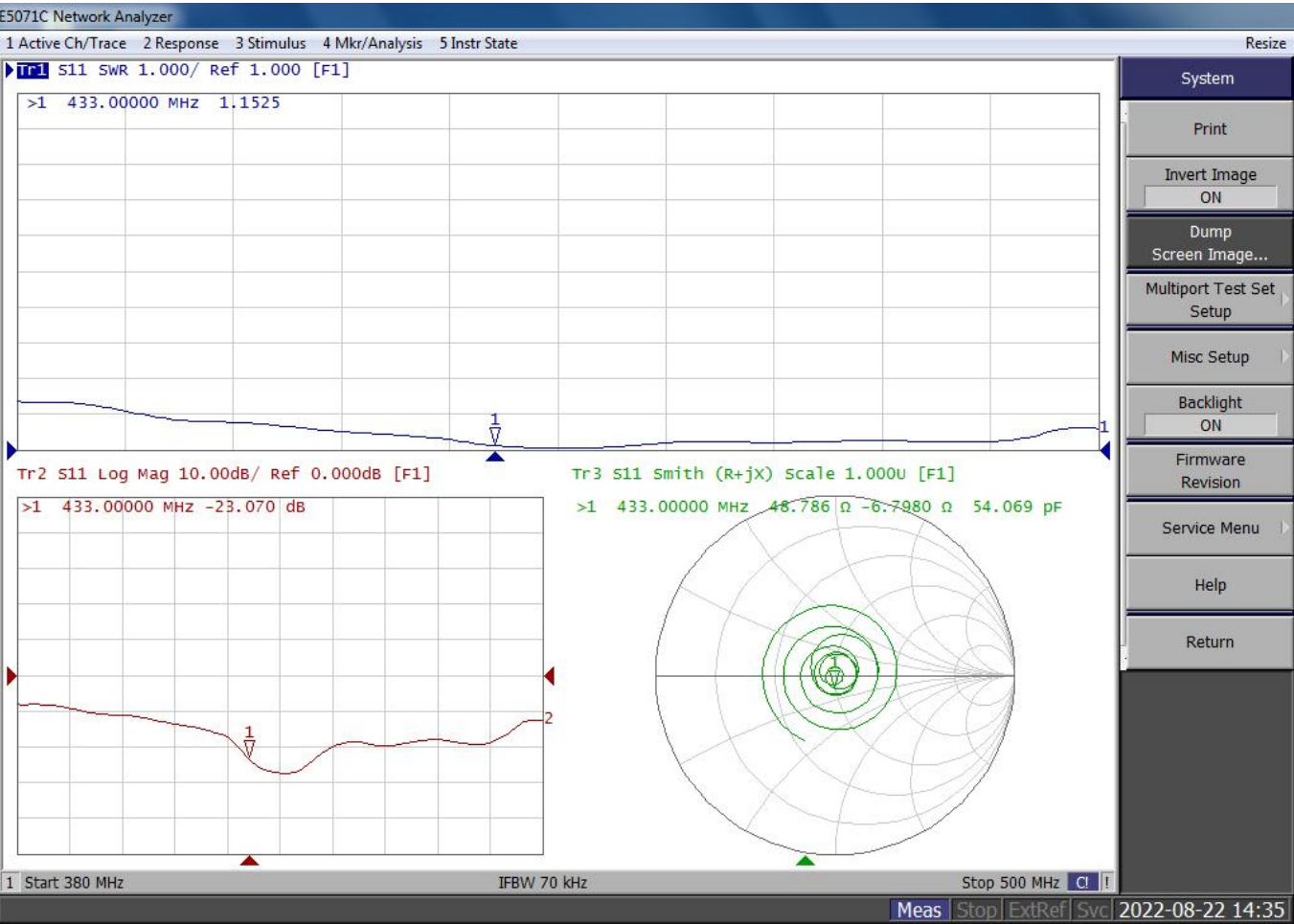
5. Typical Electrical Characteristics

□ Recommend Matching Circuit



Reference:
001=(N/A)
002=0 Ω
003=(N/A)

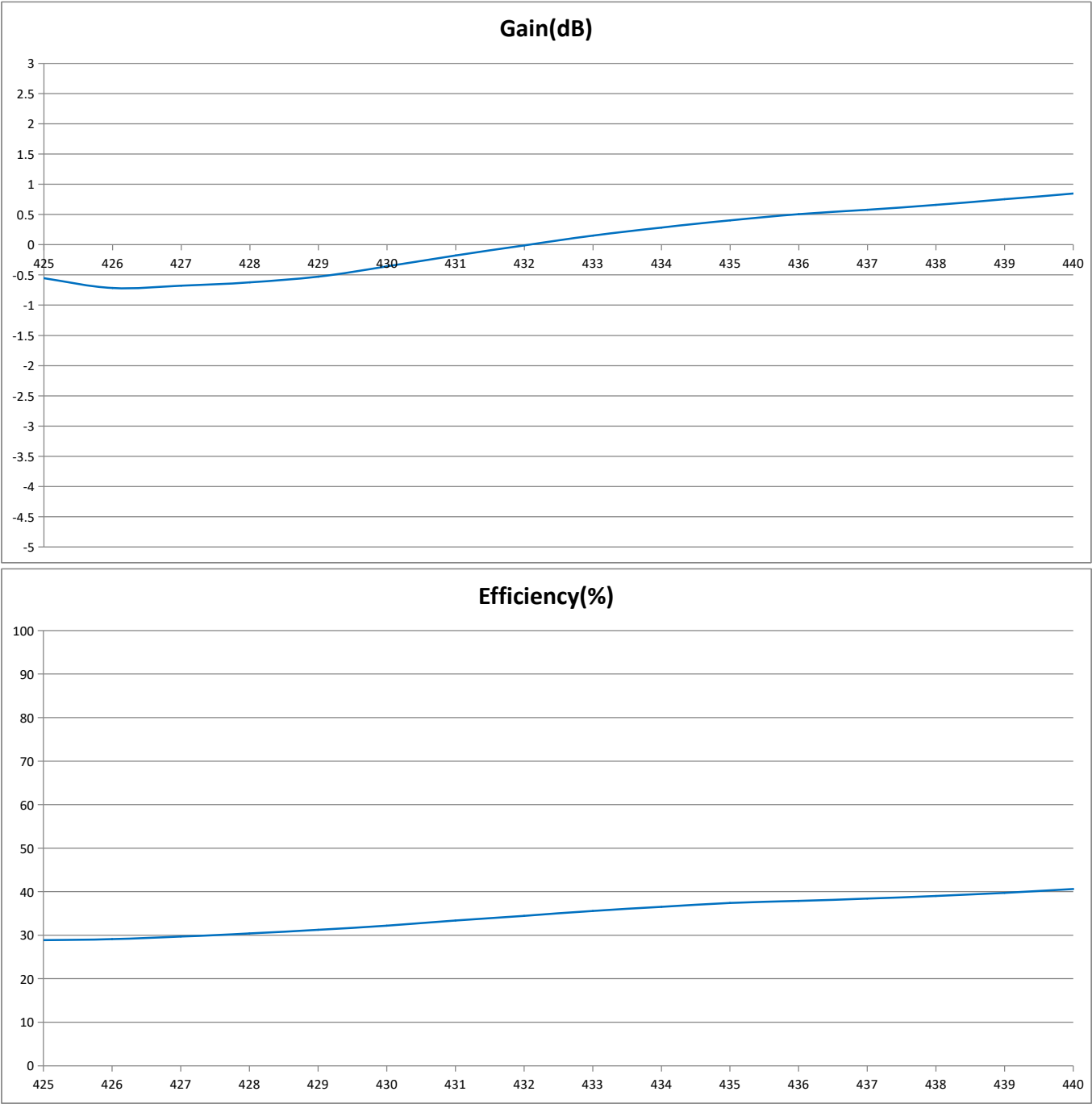
□ Return loss、VSWR& Smith chart



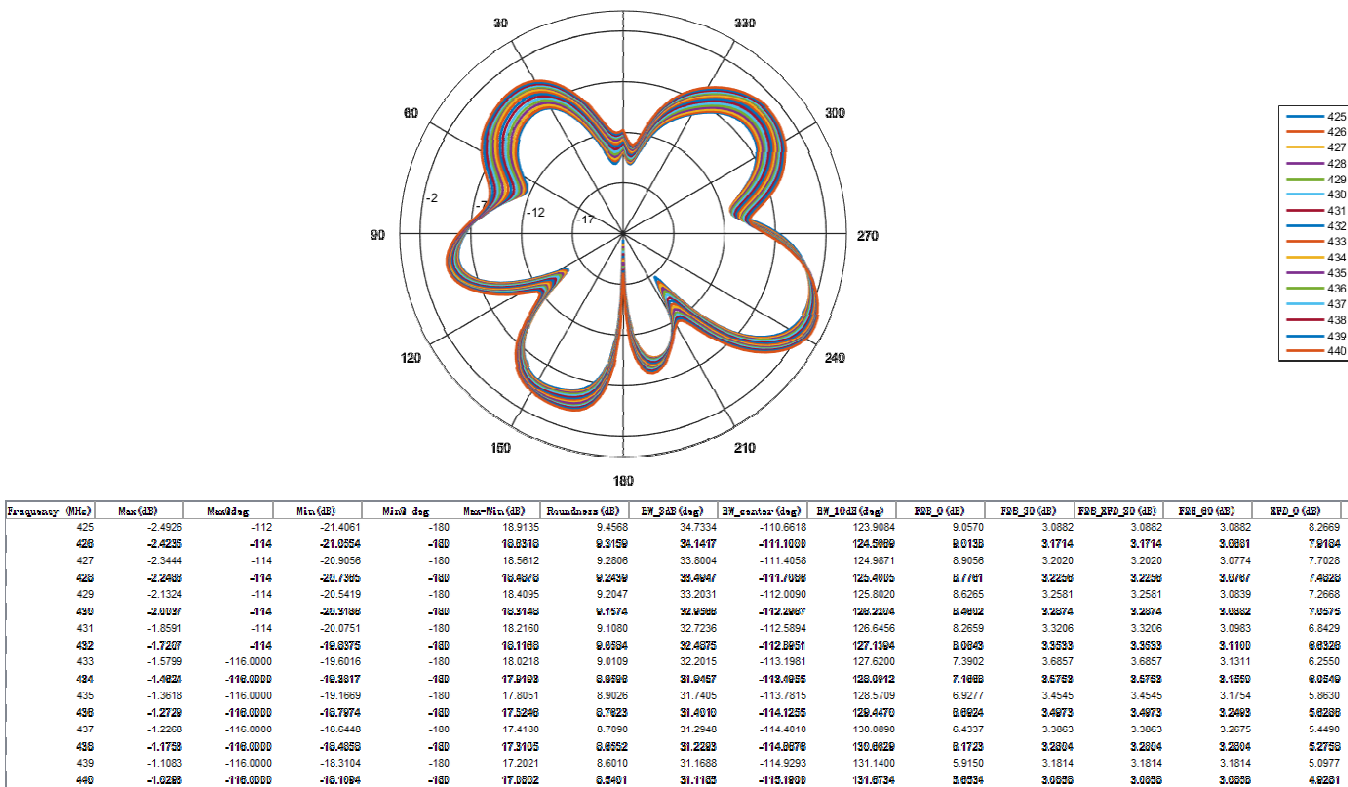
Frequency Total Data

Frequency (MHz)	Directivity(dB)	Gain(dB)	Efficiency(dB)	Efficiency(%)
425	4.8433	-0.5558	-5.399	28.8468
426	4.6479	-0.716	-5.3639	29.0811
427	4.5997	-0.677	-5.2768	29.6703
428	4.5489	-0.6243	-5.1732	30.3863
429	4.5269	-0.5266	-5.0535	31.2353
430	4.5602	-0.3596	-4.9198	32.2119
431	4.5911	-0.1783	-4.7694	33.3474
432	4.6168	-0.0105	-4.6273	34.4565
433	4.6394	0.5495	-4.4899	35.5636
434	4.6608	1.0000	-4.3758	36.511
435	4.676	0.4038	-4.2723	37.3916
436	4.7195	0.5038	-4.2158	37.8811
437	4.7338	0.5772	-4.1565	38.4013
438	4.7471	0.6585	-4.0886	39.0066
439	4.759	0.7513	-4.0078	39.7395
440	4.7646	0.8483	-3.9164	40.5848

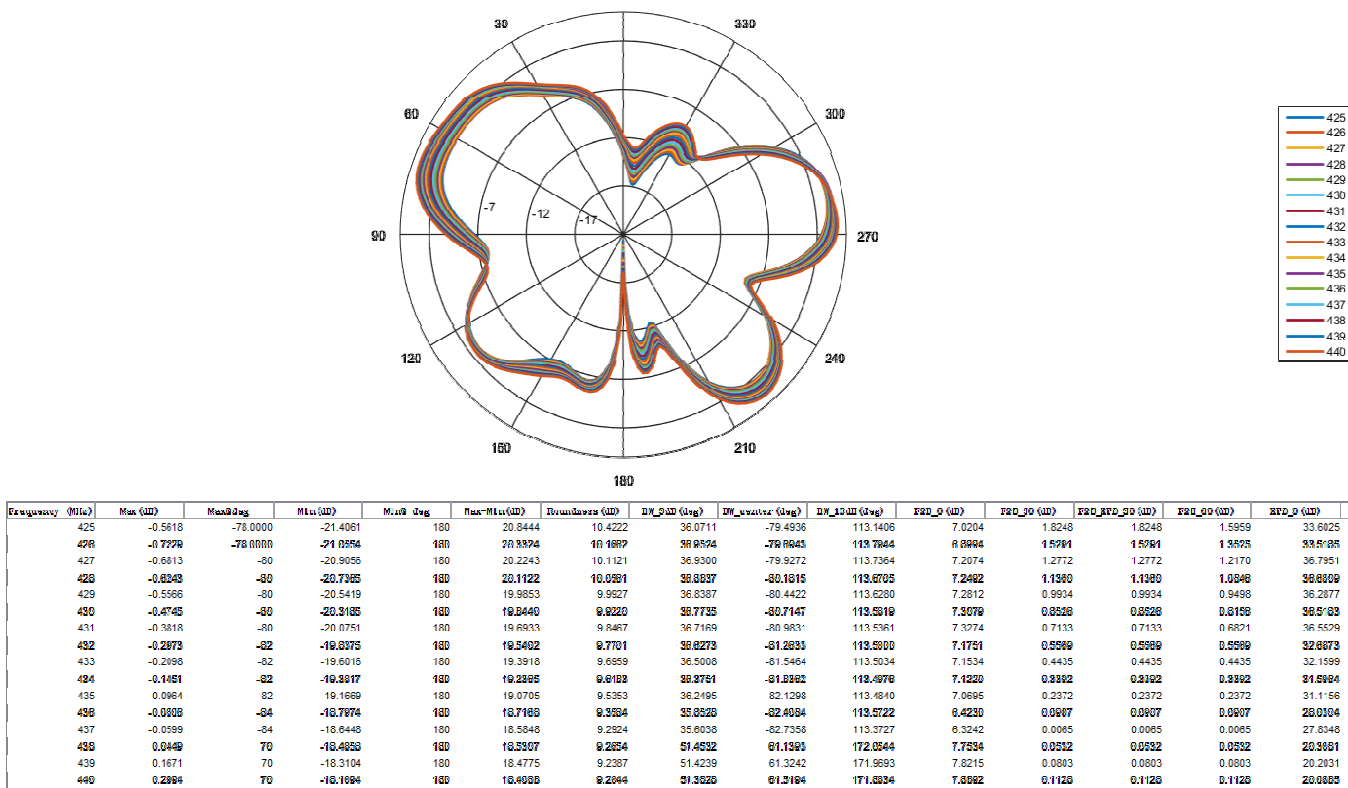
Gain(dB)&Efficiency(%)



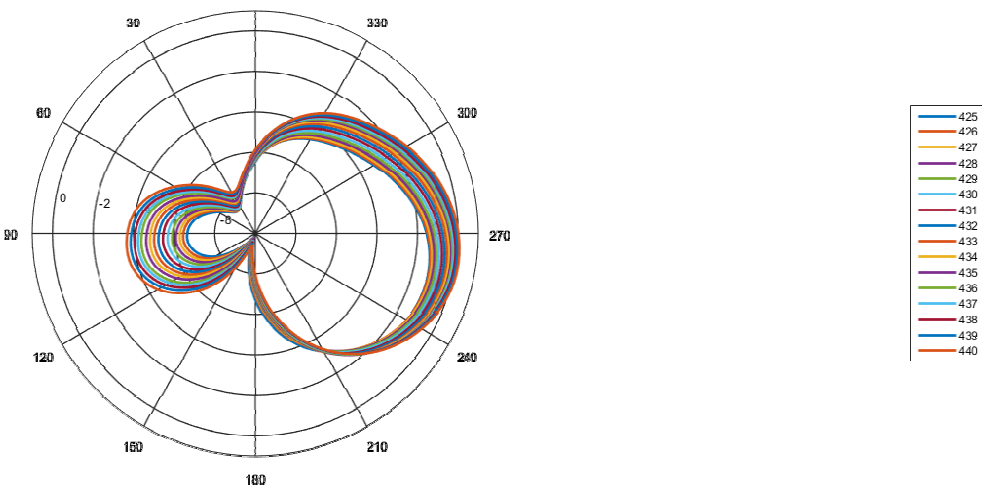
Phi=0°



Phi=90°



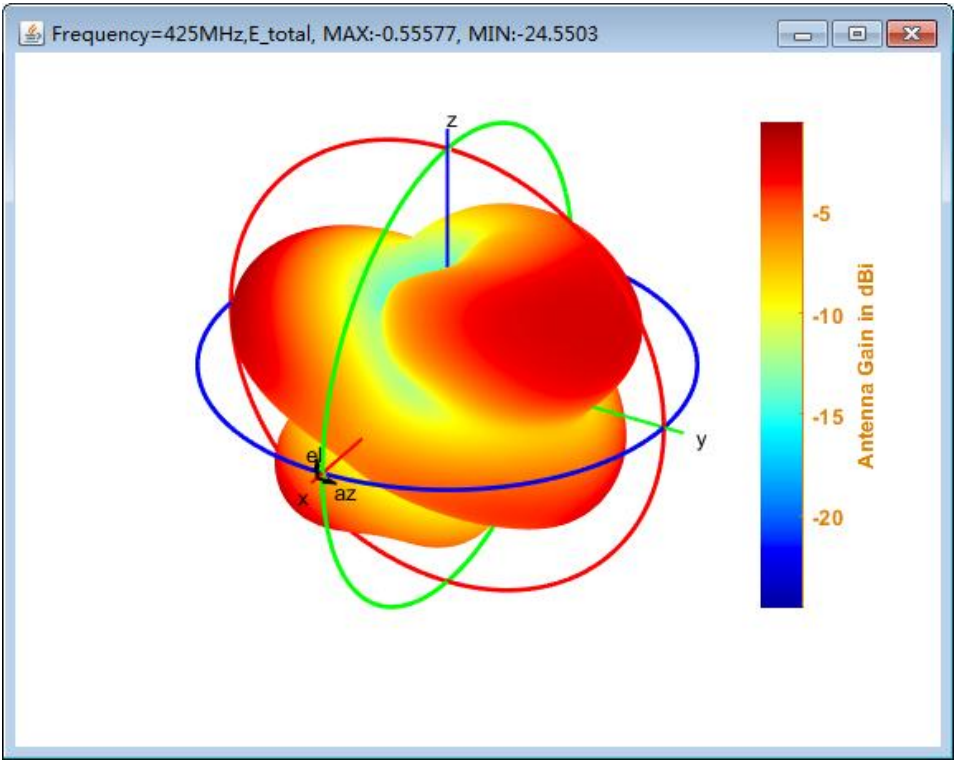
Theta=90°



Frequency (MHz)	Max (dB)	Max2(dB)	Min(dB)	Min2 dB	Max Min(dB)	Downloss(dB)	AvgGain(dB)	EW_0(dB(dB))	EW_1(dB(dB))	EW_2(dB(dB))	EW_3(dB(dB))	EW_4(dB(dB))	EW_5(dB(dB))	EW_6(dB(dB))	EW_7(dB(dB))	EW_8(dB(dB))	EW_9(dB(dB))
425	-1.2237	-108	-9.7124	150	8.4887	4.2444	-4.8206	119.7184	-100.3662	NaN	5.9754	5.4077	5.4077	5.4077	5.4077	5.4077	5.4077
426	-1.1644	-108	-9.7197	150	8.5253	4.2627	-4.7908	119.2875	-99.1768	NaN	5.7367	5.2450	5.2450	5.2450	5.2450	5.2450	5.2450
427	-1.1190	-106	-9.7000	152.0000	8.6007	4.3190	-4.7340	118.4901	-98.4190	NaN	5.0554	5.1400	5.1400	5.1400	5.1400	5.1400	5.1400
428	-1.0511	-108	-9.7001	154	8.7490	4.3745	-4.6592	117.8548	-97.6203	NaN	5.5723	5.0484	5.0484	5.0484	5.0484	5.0484	5.0484
429	-0.9246	-104.0000	-9.7915	154	8.8669	4.4334	-4.5652	117.2750	-96.8605	NaN	5.3080	4.9568	4.9568	4.9568	4.9568	4.9568	4.9568
430	-0.8614	-104.0000	-9.7060	156.0000	8.9076	4.4950	-4.4805	116.5999	-96.1634	NaN	5.3001	4.8960	4.8960	4.8960	4.8960	4.8960	4.8960
431	-0.6678	-104.0000	-9.7703	156.0000	9.1025	4.5513	-4.3312	116.0260	-95.5329	NaN	5.2152	4.7842	4.7842	4.7842	4.7842	4.7842	4.7842
432	-0.5428	-104.0000	-9.7623	159	9.2195	4.6098	-4.2124	115.5965	-94.8871	NaN	5.1288	4.6952	4.6952	4.6952	4.6952	4.6952	4.6952
433	-0.4214	-102	-9.7518	158	9.3304	4.6652	-4.0957	115.0723	-94.2303	NaN	4.9394	4.5893	4.5893	4.5893	4.5893	4.5893	4.5893
434	-0.3221	-102	-9.7625	160	9.4404	4.7202	-3.9987	114.5951	-93.5931	NaN	4.8448	4.4883	4.4883	4.4883	4.4883	4.4883	4.4883
435	-0.2321	-102	-9.7554	160	9.5233	4.7617	-3.9086	114.0788	-92.8830	NaN	4.7477	4.3850	4.3850	4.3850	4.3850	4.3850	4.3850
436	-0.1757	-102	-9.8508	162	9.4749	4.7374	-3.8191	113.7281	-92.2288	NaN	4.5865	4.1784	4.1784	4.1784	4.1784	4.1784	4.1784
437	-0.1223	-100	-0.8346	162	9.5122	4.7581	-3.7580	113.2346	-91.6087	NaN	4.3844	4.0607	4.0607	4.0607	4.0607	4.0607	4.0607
438	-0.0407	-100	-0.5922	164	9.5435	4.7717	-3.6818	112.8248	-91.0821	NaN	4.2855	3.9087	3.9087	3.9087	3.9087	3.9087	3.9087
439	0.0353	-100	-9.5064	164	9.5417	4.7709	-3.5865	111.9525	-90.4921	NaN	4.1860	3.8569	3.8569	3.8569	3.8569	3.8569	3.8569
440	0.1270	-100	-9.3821	166	9.5099	4.7349	-3.4788	111.4127	-89.8421	NaN	4.0880	3.7454	3.7454	3.7454	3.7454	3.7454	3.7454

2D&3D test pattern

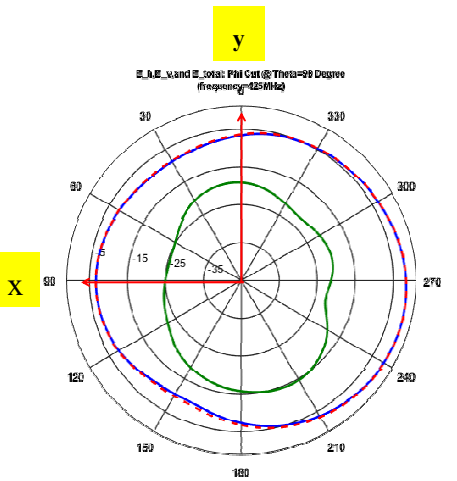
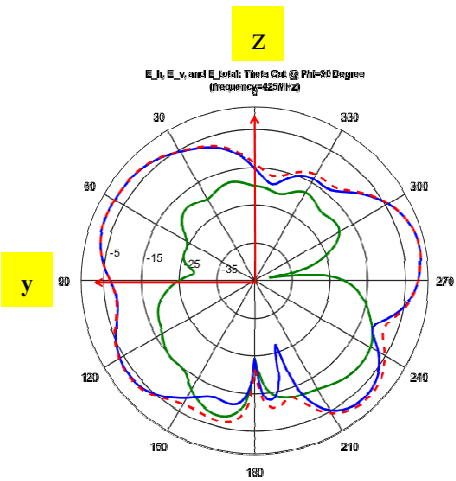
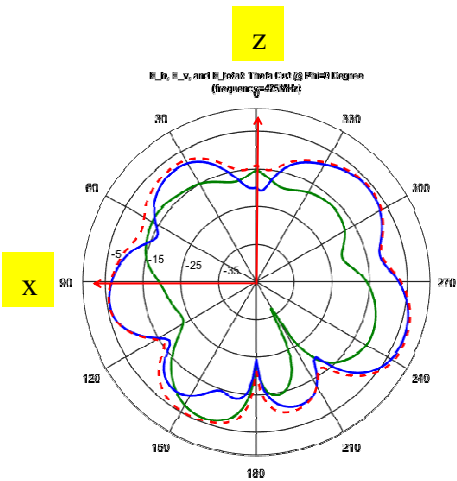
425MHz



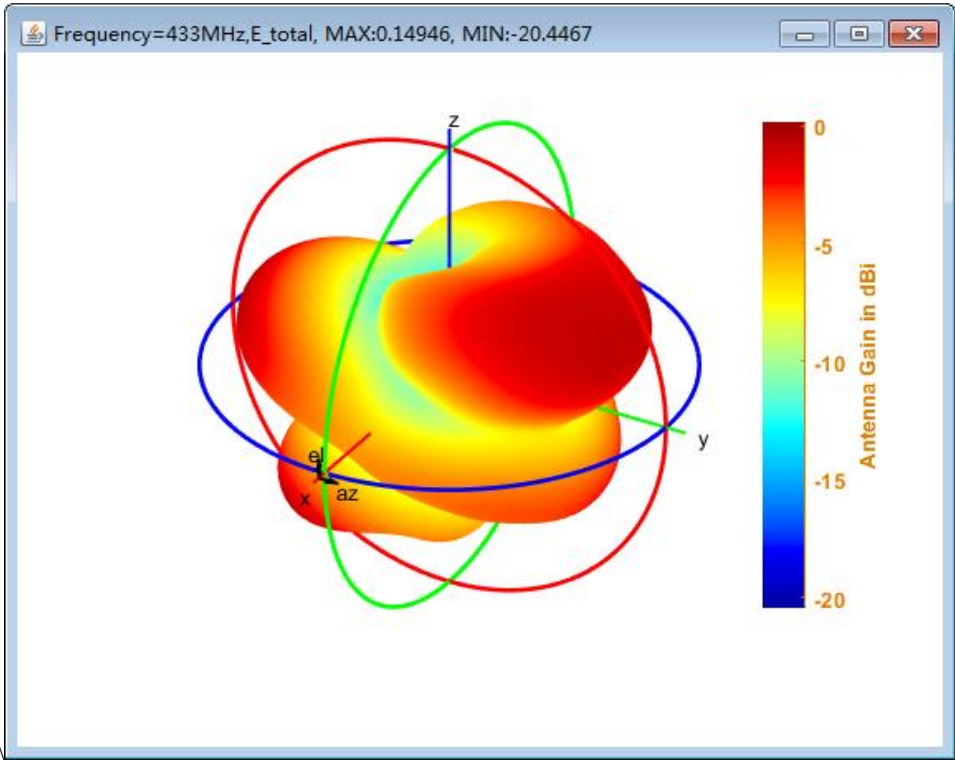
XZ Plane

YZ Plane

XY Plane



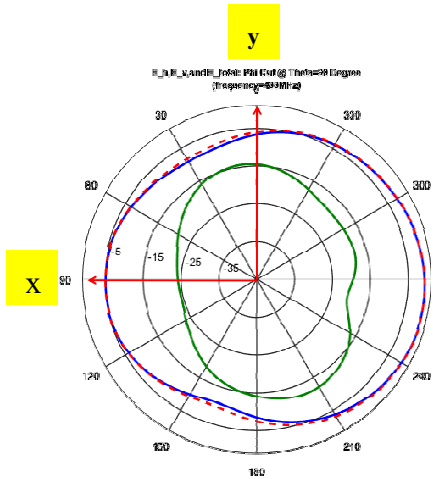
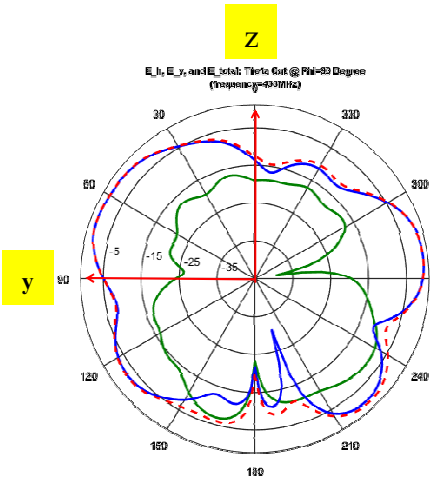
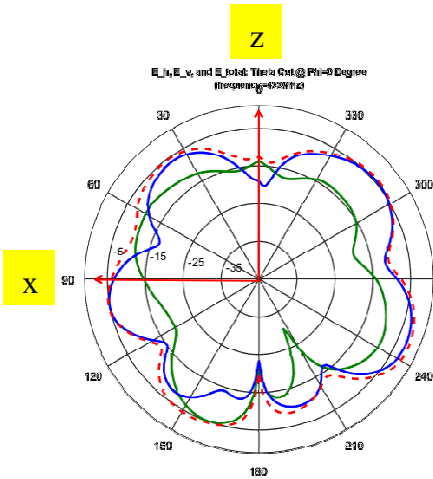
433MHz



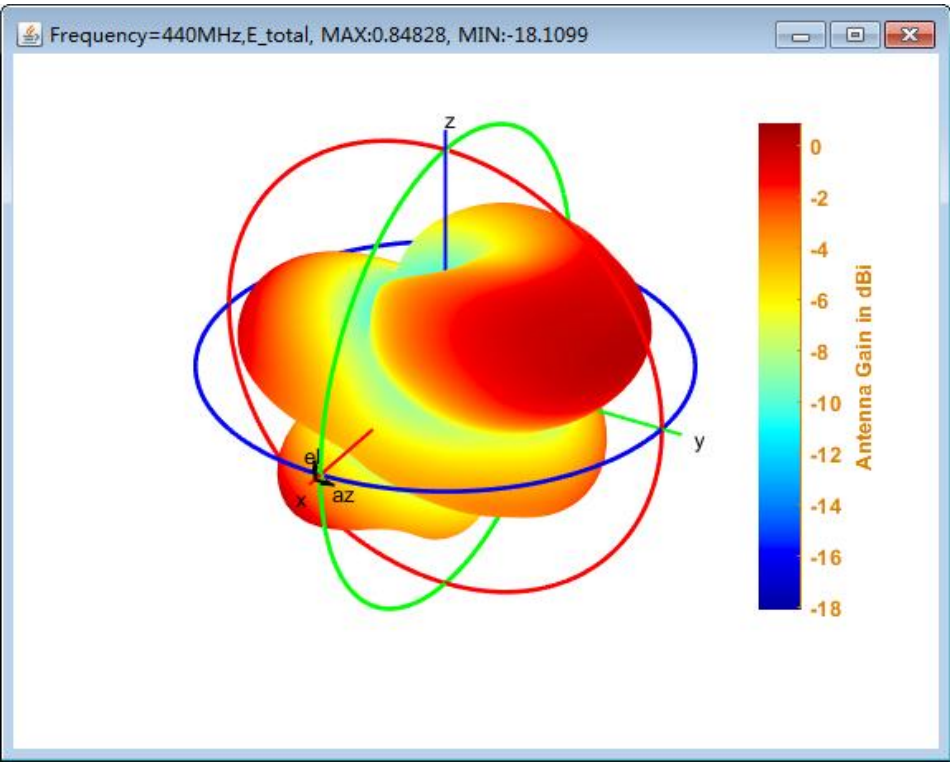
XZ Plane

YZ Plane

XY Plane



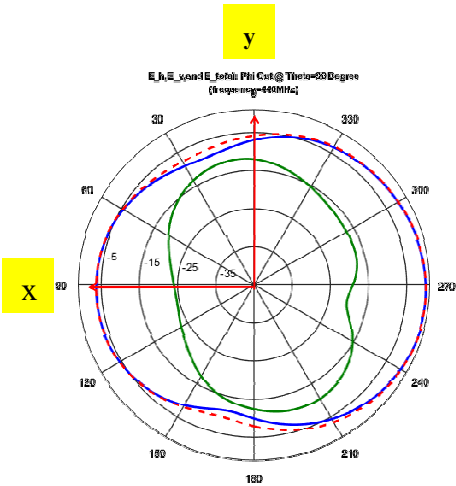
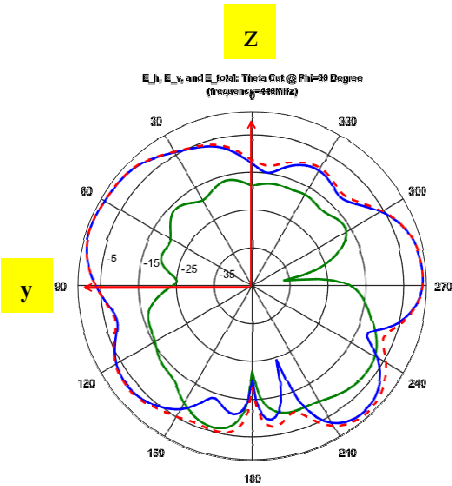
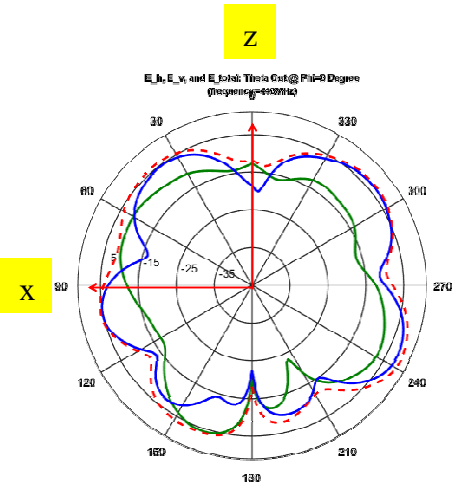
440MHz



XZ Plane

YZ Plane

XY Plane



6. Dimension

