

SPECIFICATION FOR APPROVAL

CUSTOMER NAME:

PRODUCT NAME: 433MHz antenna, TD01,1mm copper core, 14cm long, VSWR 1.5

CUSTOMER P /N: E013.00000033

P/N:

REV: A

MANUFACTURER
SIGNATURE

CUSTOMER
SIGNATURE

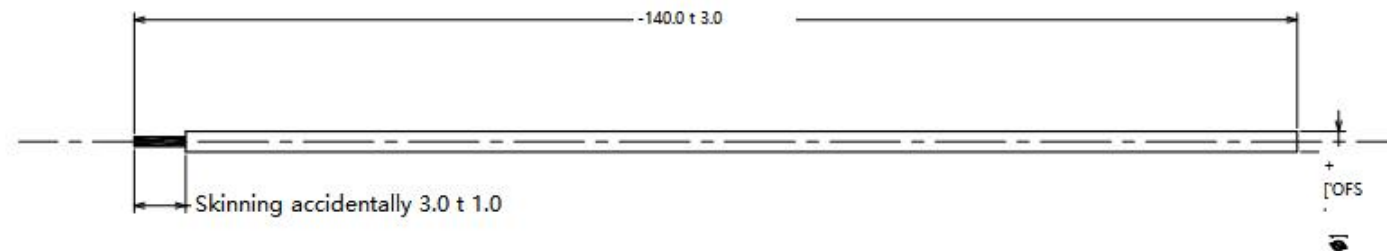
CHECKED BY:

AUDITOR BY:

APPROVED BY:

DATE:

2022-10-26



Technical requirements:

1. Wire: 24 awg, gb copper wire, wire stripping immersion tin, cut a head of
2. Length: product line length = 140 ± 3.0 ;
3. Color: red;
4. Other: all materials must be in accordance with RoHS related enviro

Shenzhen ace tech industrial co., LTD

Part name	The antenna	making		The date of	2020-11-19
The product name		audit		The	
Product model the AS - D001				The	
Part Numbers B013.00000021 figure number	1/1				
version	沃				
material					
	Surface treatment of NA				Surface size A4

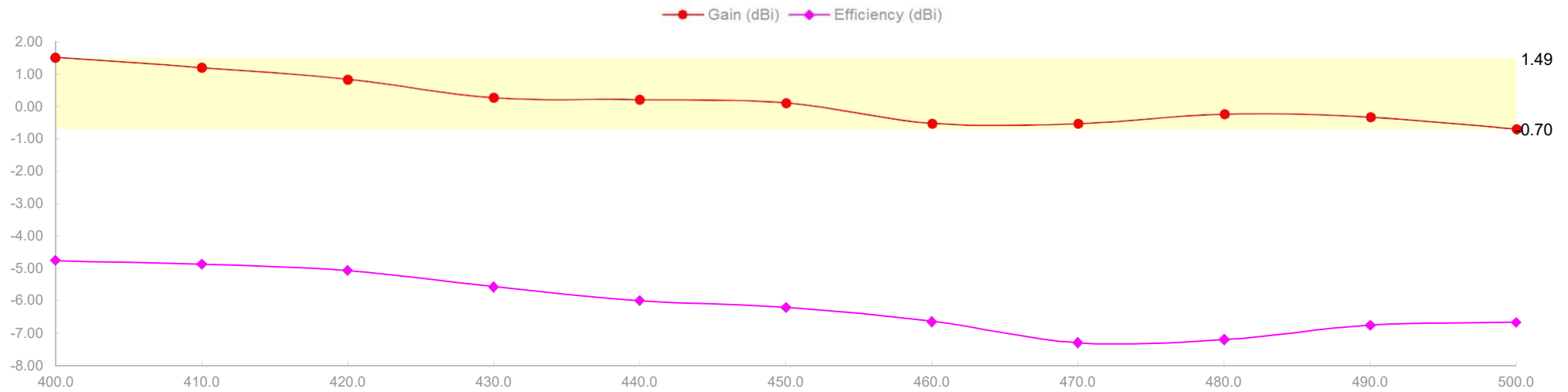
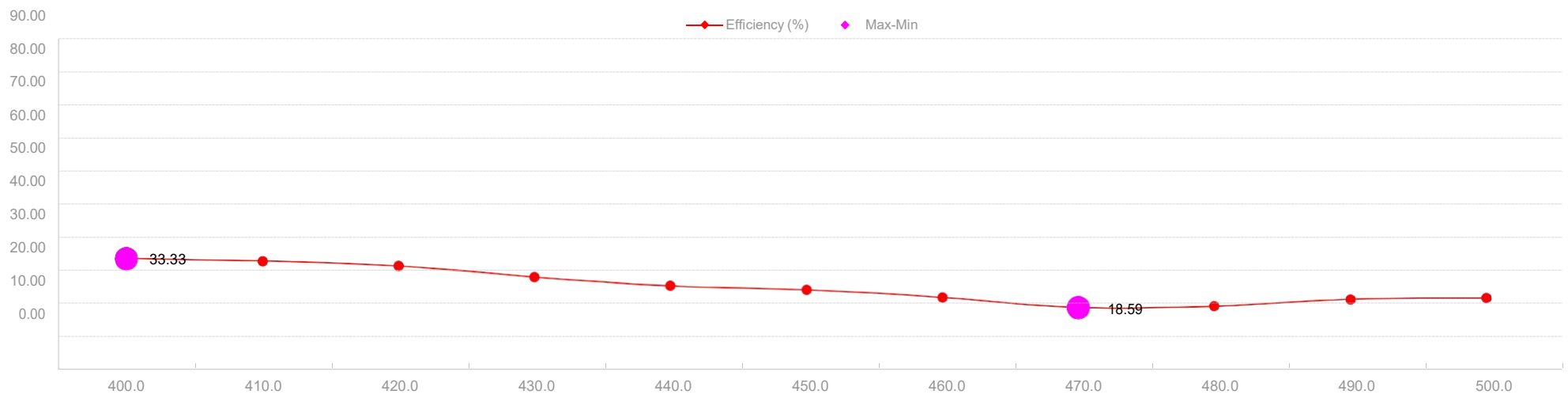
Note 1. The unit is m
2. No note size tolerance of ± 0.2 mm

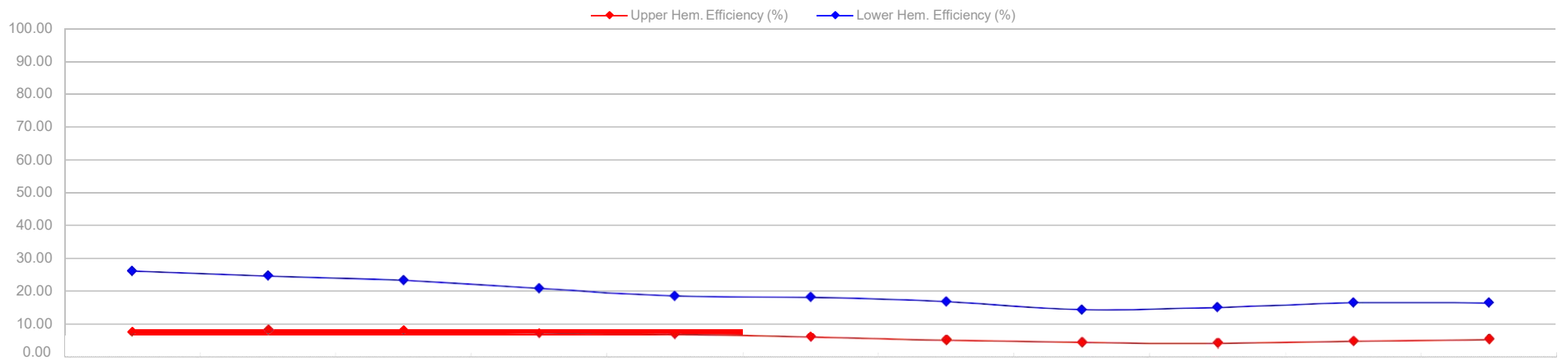
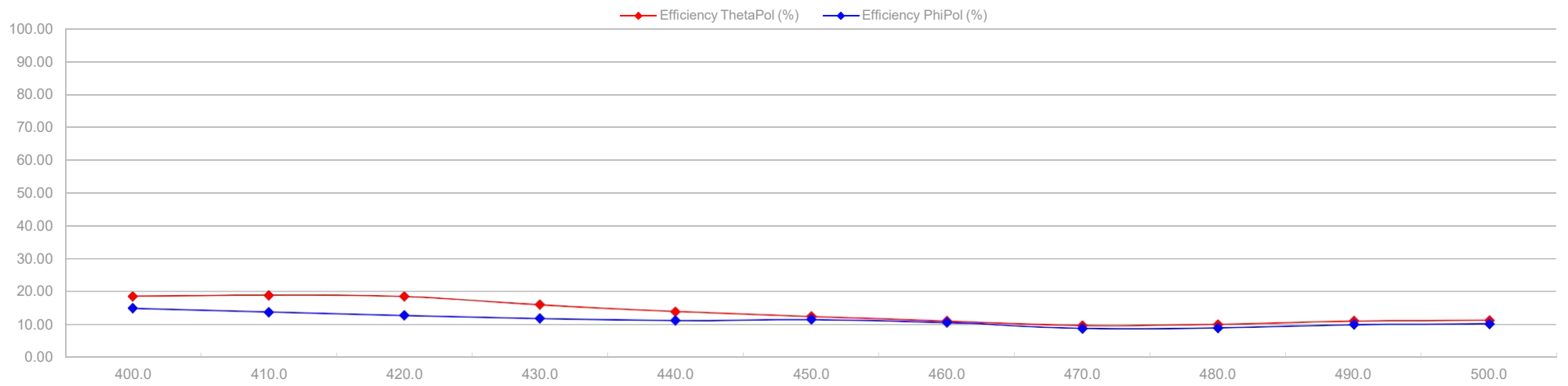


Max gain:1.20dBi

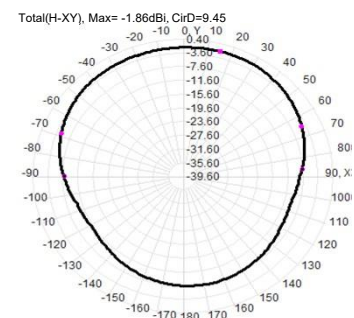
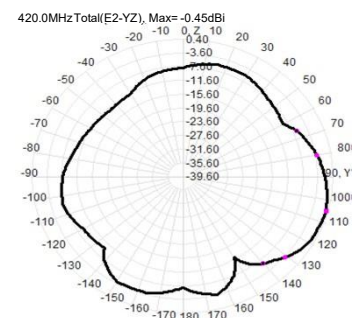
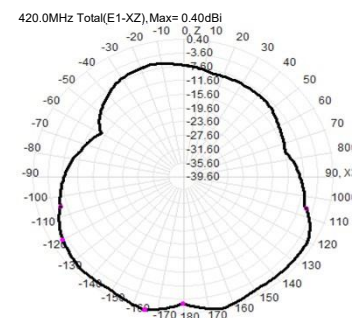
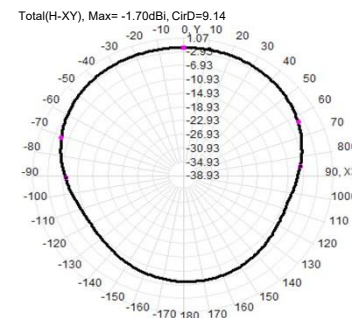
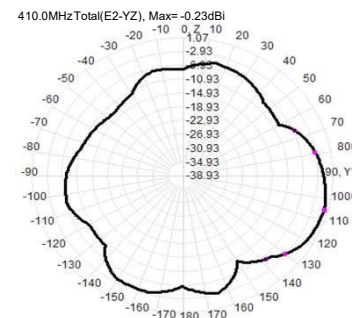
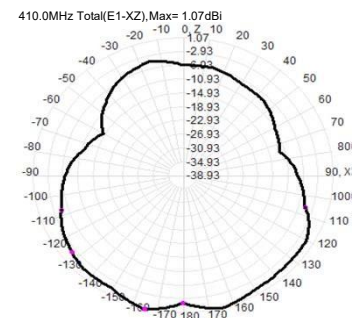
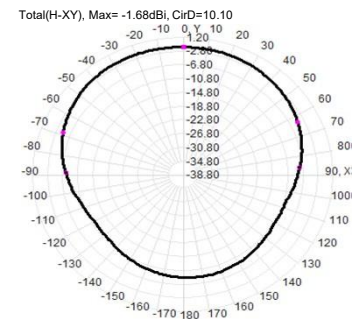
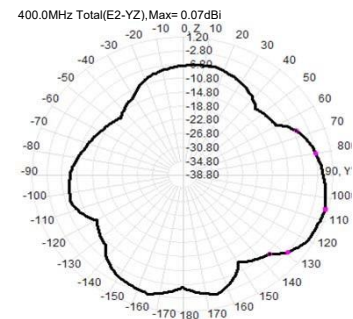
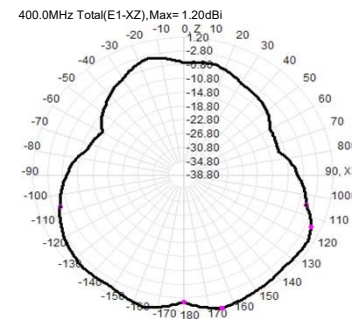
TEST REPORT

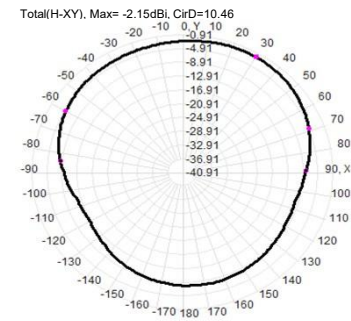
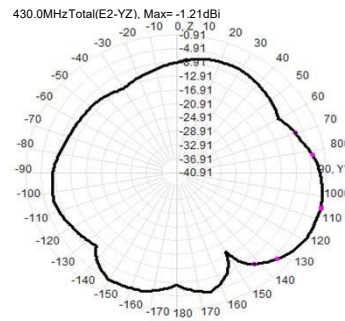
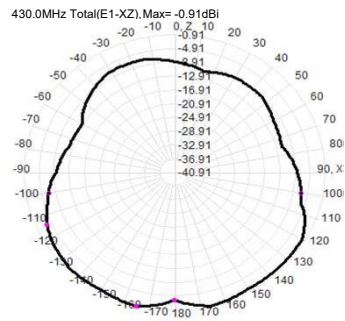
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	400.0	410.0	420.0	430.0	440.0	450.0	460.0	470.0	480.0	490.0	500.0
Efficiency (dBi)	-4.77	-4.87	-5.07	-5.57	-6.00	-6.21	-6.64	-7.31	-7.21	-6.76	-6.67
Gain (dBi)	1.20	1.07	0.40	-0.91	-1.56	-1.55	-1.12	-1.95	-1.69	-1.72	-1.18
Efficiency (%)	33.33	32.55	31.10	27.74	25.09	23.93	21.67	18.59	19.02	21.07	21.51
Directivity (dB)	6.27	6.06	5.90	5.83	6.21	6.31	6.12	6.78	6.97	6.43	5.97
Peak Gain Position (Theta)	120.00	165.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	135.00
Peak Gain Position (Phi)	45.00	165.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	150.00
Efficiency ThetaPol (%)	18.47	18.81	18.39	15.91	13.91	12.41	11.07	9.75	10.05	11.07	11.27
Efficiency PhiPol (%)	14.86	13.74	12.71	11.82	11.19	11.52	10.61	8.84	8.97	10.00	10.23
Upper Hem. Efficiency (%)	7.36	8.04	7.92	7.01	6.60	5.86	4.87	4.23	3.97	4.58	5.08
Lower Hem. Efficiency (%)	25.96	24.51	23.18	20.73	18.50	18.07	16.80	14.36	15.05	16.48	16.42
T90(H)	10.10	9.14	9.45	10.46	9.05	9.95	11.42	11.44	10.75	10.48	10.90
Gain 15deg (dBi)											
E1(XZ)	66.00	53.00	60.00	66.00	71.00	61.00	57.00	59.00	60.00	56.00	55.00
E1(XZ)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E2(YZ)	49.00	51.00	51.00	51.00	49.00	48.00	45.00	38.00	34.00	38.00	44.00
E2(YZ)	3.13	3.29	3.69	3.92	4.02	3.82	3.28	3.19	2.94	2.33	2.37
(P)	7.60	47.29	6.35	5.96	5.91	6.60	7.32	6.35	4.67	3.47	11.23
Elevation Angle 10 degrees worst (largest) axial ratio (P)	96.69	54.14	56.18	53.32	74.67	54.00	44.16	41.28	57.99	58.19	60.60
Hc(XY)	132.00	134.00	134.00	129.00	144.00	147.00	151.00	155.00	158.00	155.00	143.00
Hc(XY)	7.18	6.29	5.78	5.81	5.94	5.92	6.73	7.84	8.48	8.83	9.36
Left-handed circular polarization efficiency (%)	19.59	19.04	18.29	16.04	14.61	13.80	12.18	10.56	10.60	11.45	11.56
Right-handed circular polarization efficiency (%)	13.74	13.50	12.82	11.69	10.49	10.13	9.50	8.03	8.41	9.62	9.94
Empty											



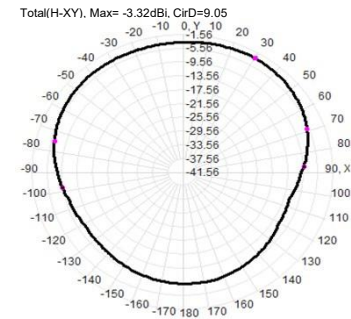
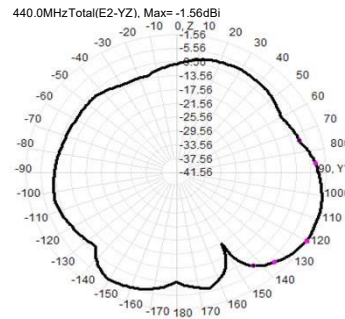
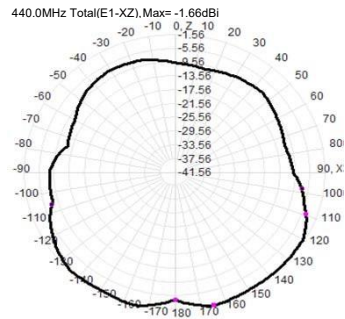


Test report

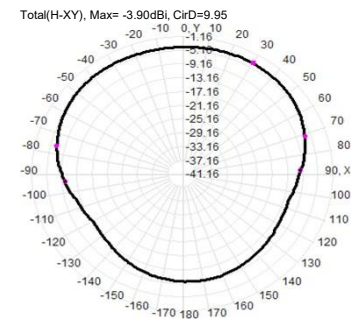
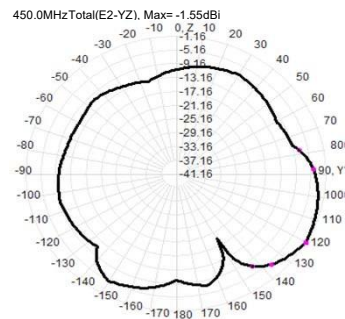
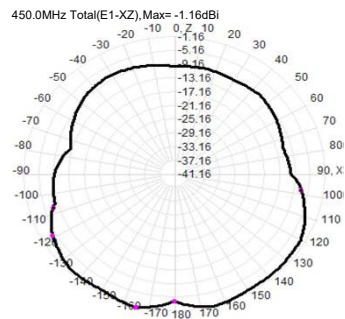




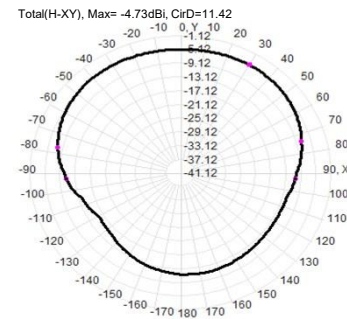
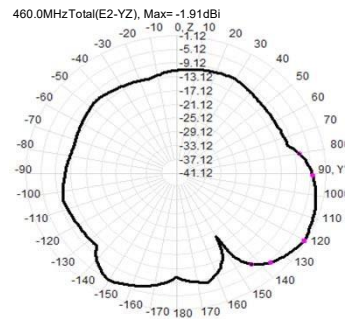
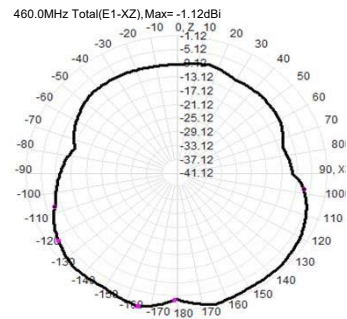
Unit : dBi



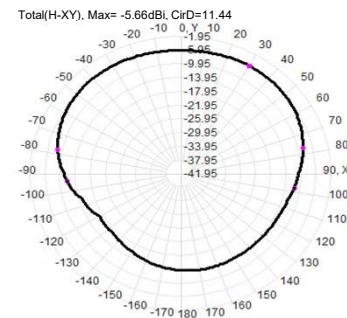
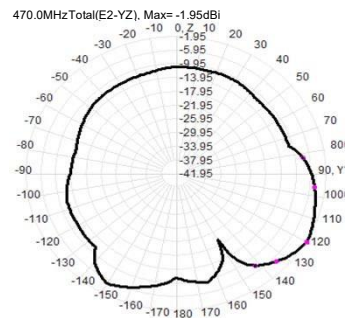
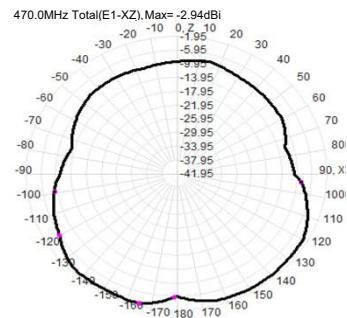
Unit : dBi



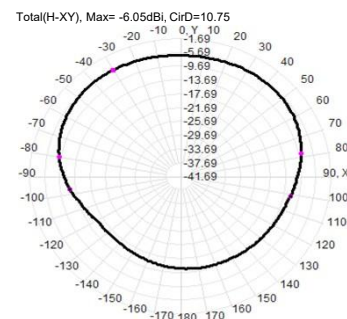
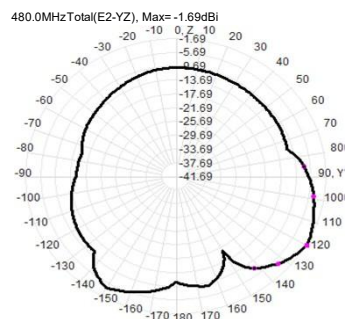
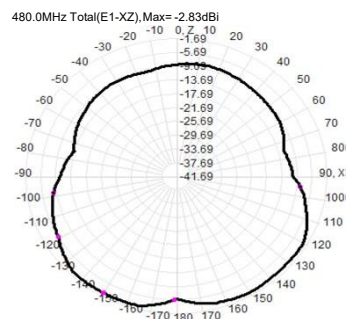
Unit : dBi



Unit : dBi

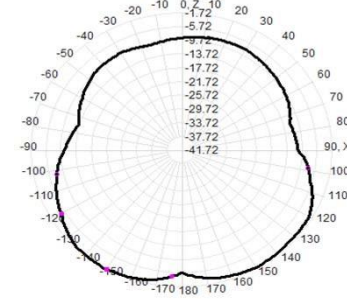


Unit : dBi

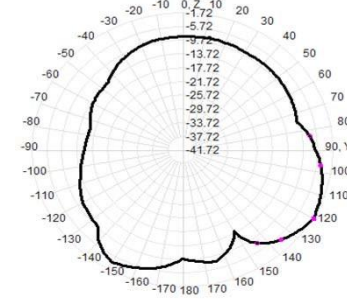


Unit : dBi

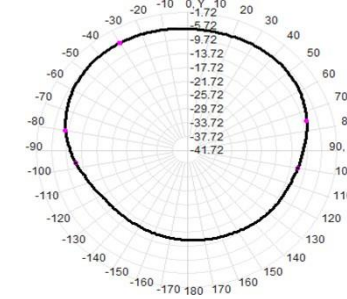
490.0MHz Total(E1-XZ), Max=-1.72dBi



490.0MHz Total(E2-YZ), Max=-1.87dBi

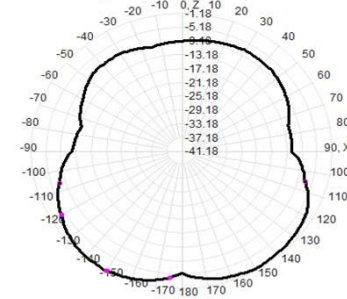


Total(H-XY), Max=-5.86dBi, CirD=10.48

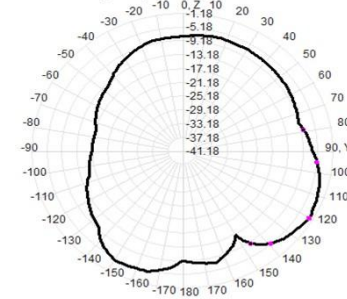


Unit : dBi

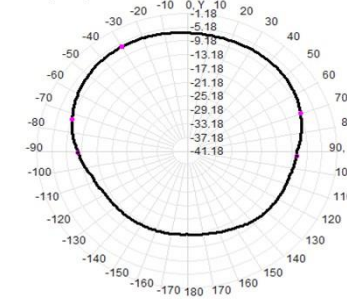
500.0MHz Total(E1-XZ), Max=-1.18dBi



500.0MHz Total(E2-YZ), Max=-2.54dBi

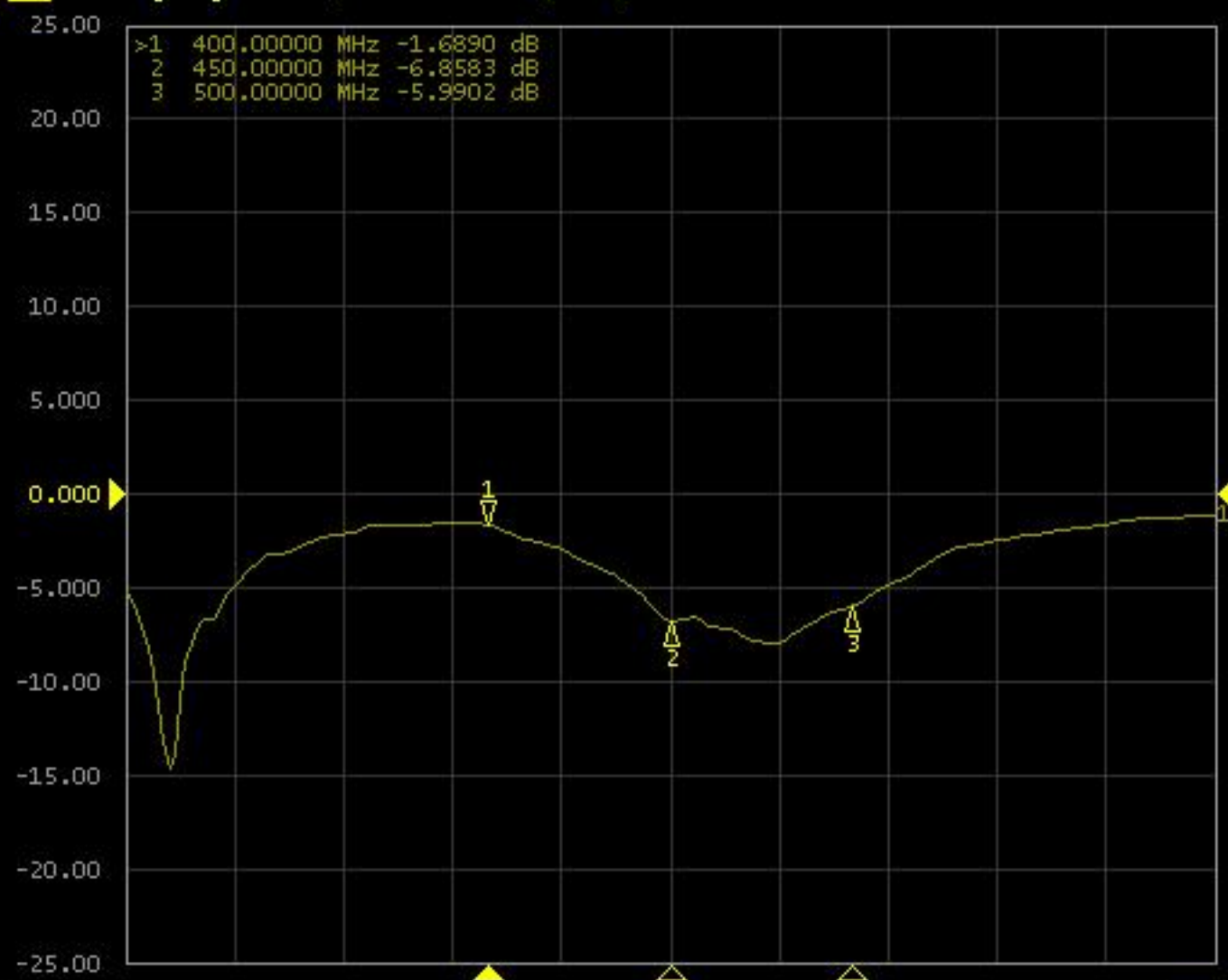


Total(H-XY), Max=-6.20dBi, CirD=10.90



Unit : dBi

▶ Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]



Format

Log Mag

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

1 Start 300 MHz

IFBW 70 kHz

Stop 600 MHz Cor !

Meas

Stop

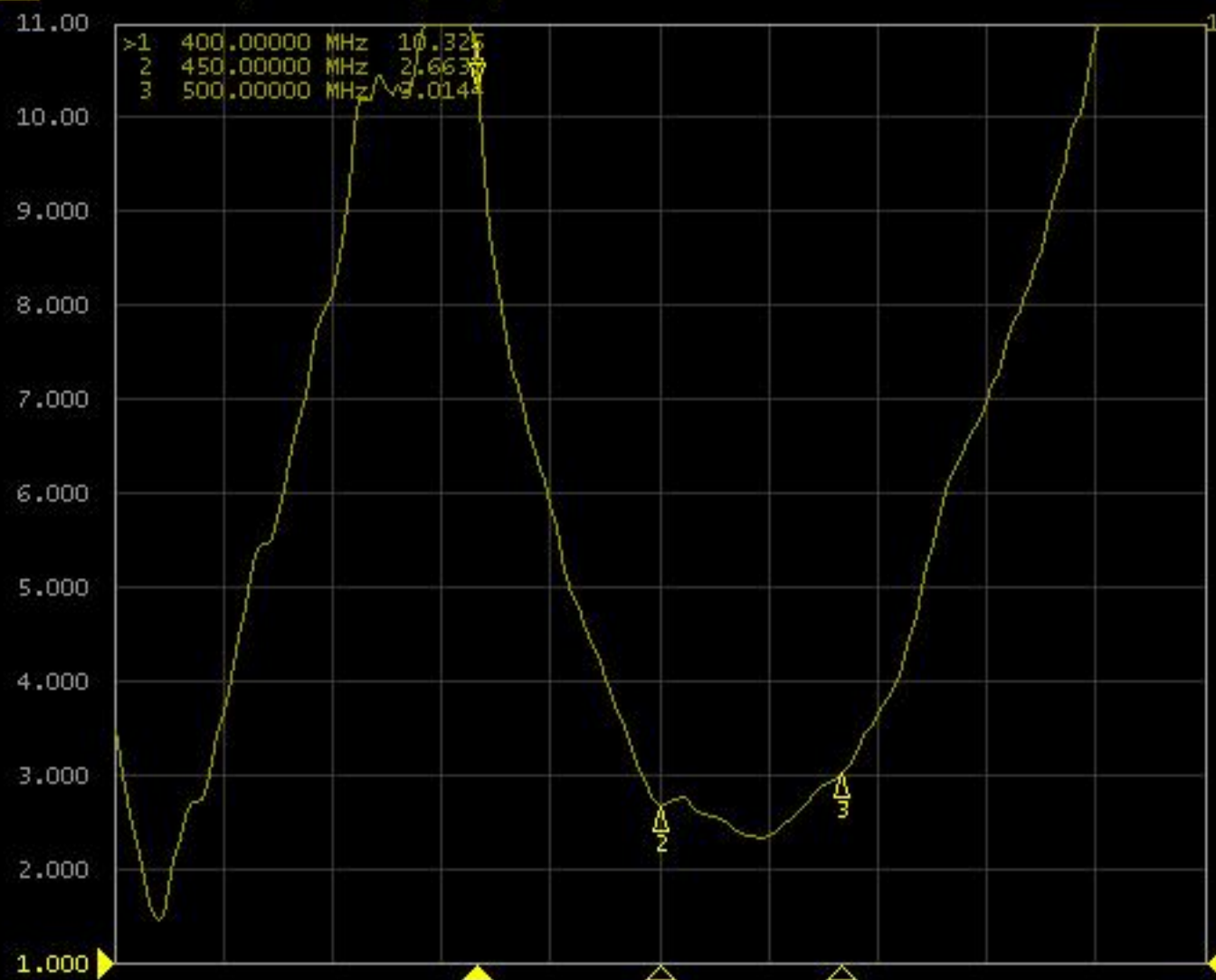
ExtRef

Ready

Svc

2022-10-25 17:07

▶ Tr1 S11 SWR 1.000/ Ref 1.000 [F1 M]



Save/Recall

Save State

Recall State

Recall by
File Name

Save Channel

Recall Channel

Save Type
State & Cal

Channel/Trace
Disp Only

Save
Trace Data...

Save SnP

1 Start 300 MHz

IFBW 70 kHz

Stop 600 MHz Cor !

Meas

Stop

ExtRef

Ready

Svc

2022-10-25 17:07