

SPEED TECHNOLOGY

SPEED Communication Technology Limited

Approval sheet of 6301-TX Internal Antenna

Customer/Project	6301-TX	Frequency Band	2.4G		
SCT P/N	SS10013206	Version	S01		
Date	2023-10-26				
Material Code	F-0A-N2-0002-000-K0				
SPEED					
Checked by	RF	ERICGUO	Design by	RF	李正权
	ME	ERICGUO		ME	邱宏
	QC	姜春梅	Remark		
Customer					
Date					
Confirmed by	RF				
	ME				
Remark					

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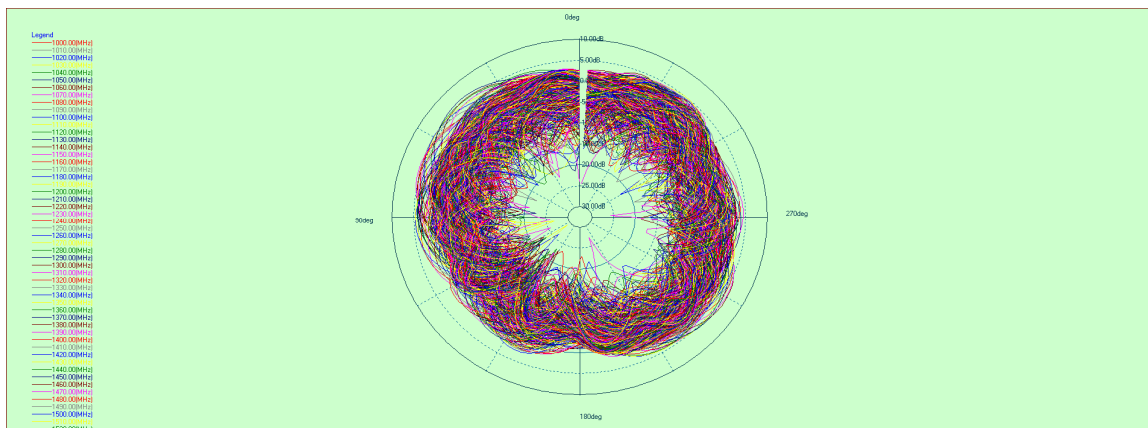
1、 Gain & Radiation Patterns

The gain and efficiency of the antenna was measured in the anechoic chamber. The chamber provides less than -40 dB reflectivity from 800 MHz through 6 GHz and 25cm diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

1.1Gain

Frequency(MHZ)	Efficiency(db)	Efficiency(%)	Peak Gain (dbi)
2400	-6.08	24.7	2.12
2410	-5.44	28.5	2.06
2420	-5.21	30.1	2.05
2430	-5	31.6	2.61
2440	-4.34	36.8	2.58
2450	-4.15	38.5	2.87
2460	-4.11	38.8	2.85
2470	-4.39	36.4	2.7
2480	-4.6	34.7	2.45
2490	-4.93	32.1	2.31
2500	-5.26	29.8	2.24

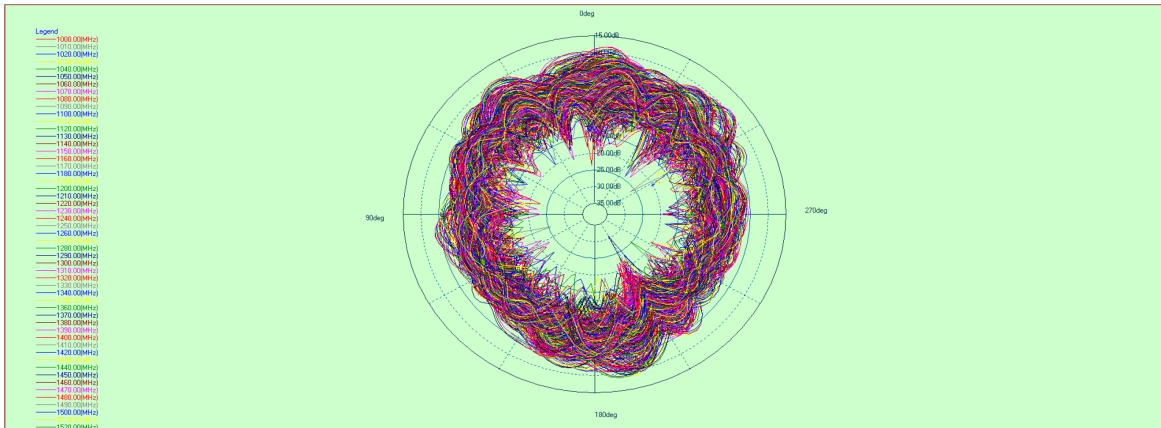
1.2Radiation Patterns



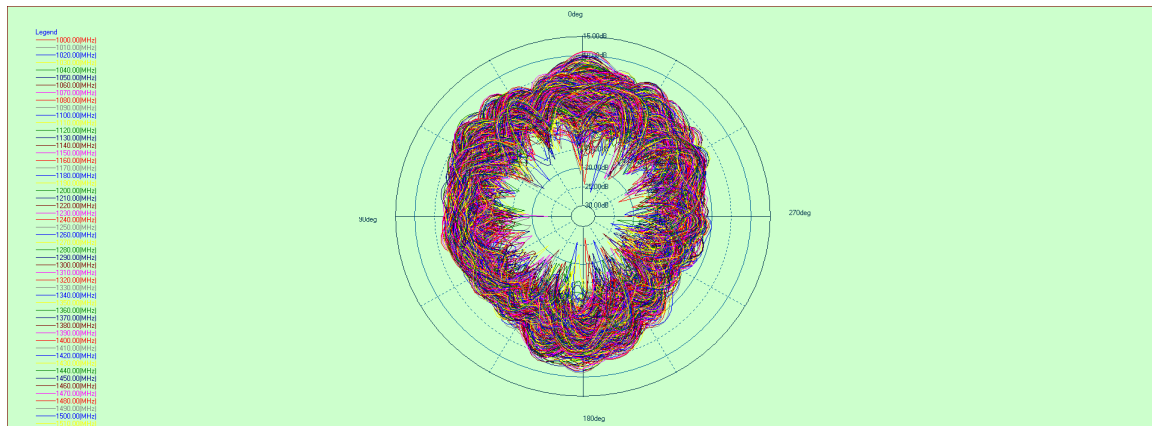
Theta=90°

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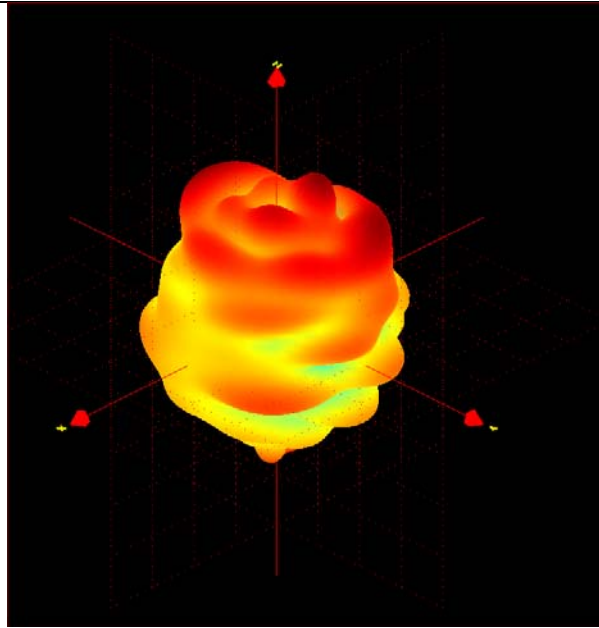
$\Phi = 90^\circ$



$\Phi = 0^\circ$

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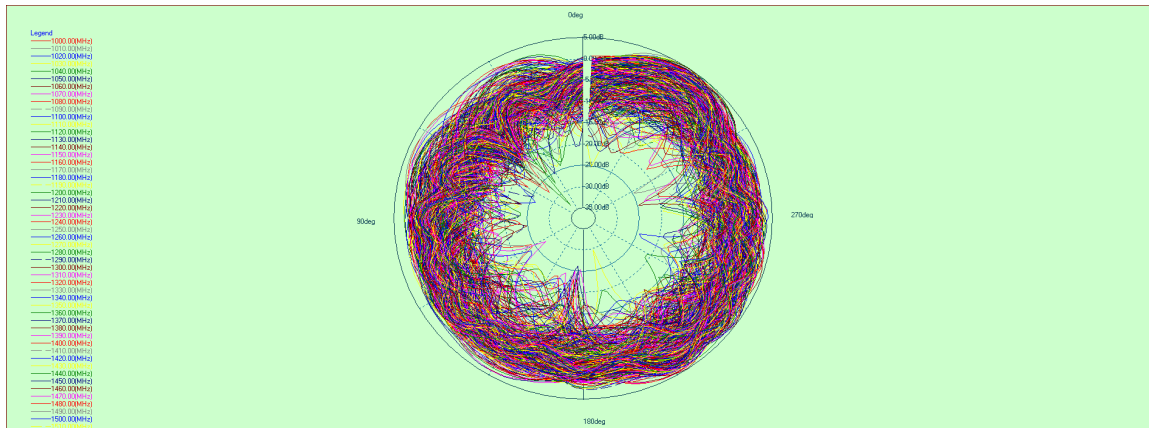
1.3Gain

Frequency(MHZ)	Efficiency(db)	Efficiency(%)	Peak Gain (dbi)
2400	-5.88	25.8	1.91
2410	-5.16	30.5	1.90
2420	-4.84	32.8	2.46
2430	-4.46	35.8	2.43
2440	-4.40	36.3	2.72
2450	-4.67	36.6	2.70
2460	-4.35	36.7	2.55
2470	-4.38	36.5	2.30
2480	-4.46	35.8	2.16
2490	-4.78	33.3	2.09
2500	-5.10	30.9	2.13

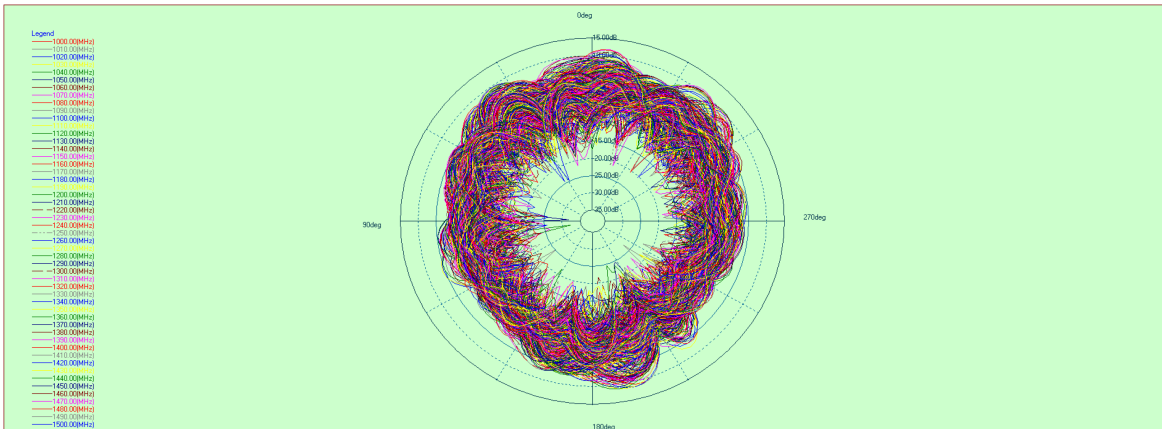
1.4Radiation Patterns

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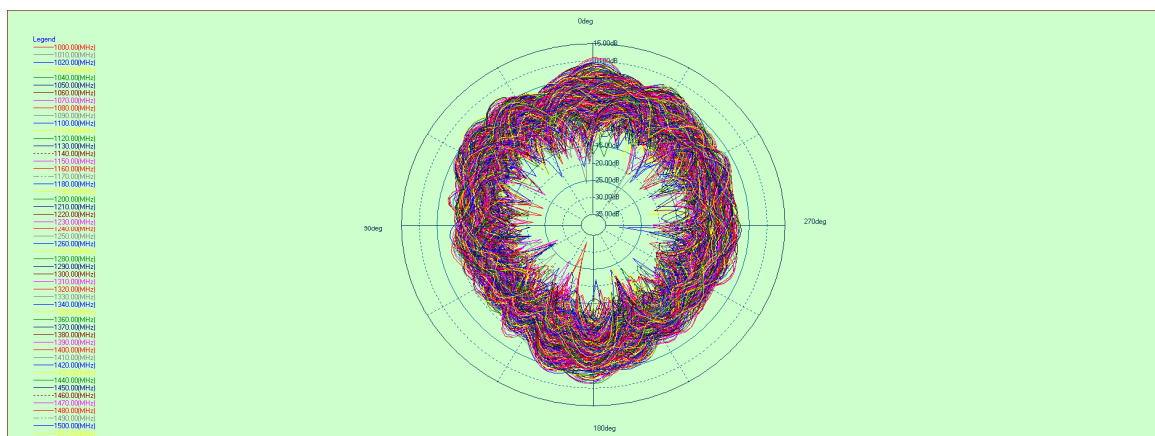
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Theta=90°



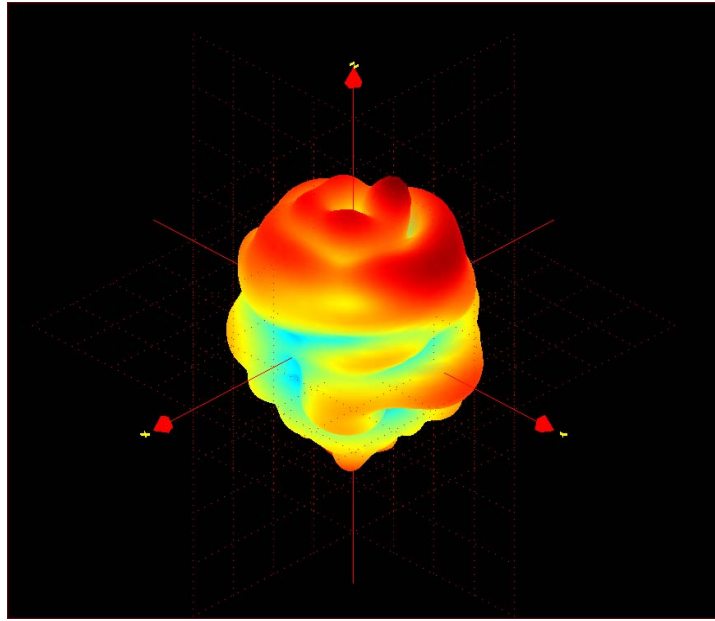
Phi=90°



Phi=0°

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2、 Attachment

2、 Antenna Photo

Indication

This report summarizes the electrical performance structure drawings confirmed by the customers of lower antenna of 6301-TX project, The antenna is an assembly Inside the microphone (see Figure1).



Figure 1: Proposed Antenna

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