Approval Sheet

B881 Antenna

Customer function:	Name:	Sign:	Date

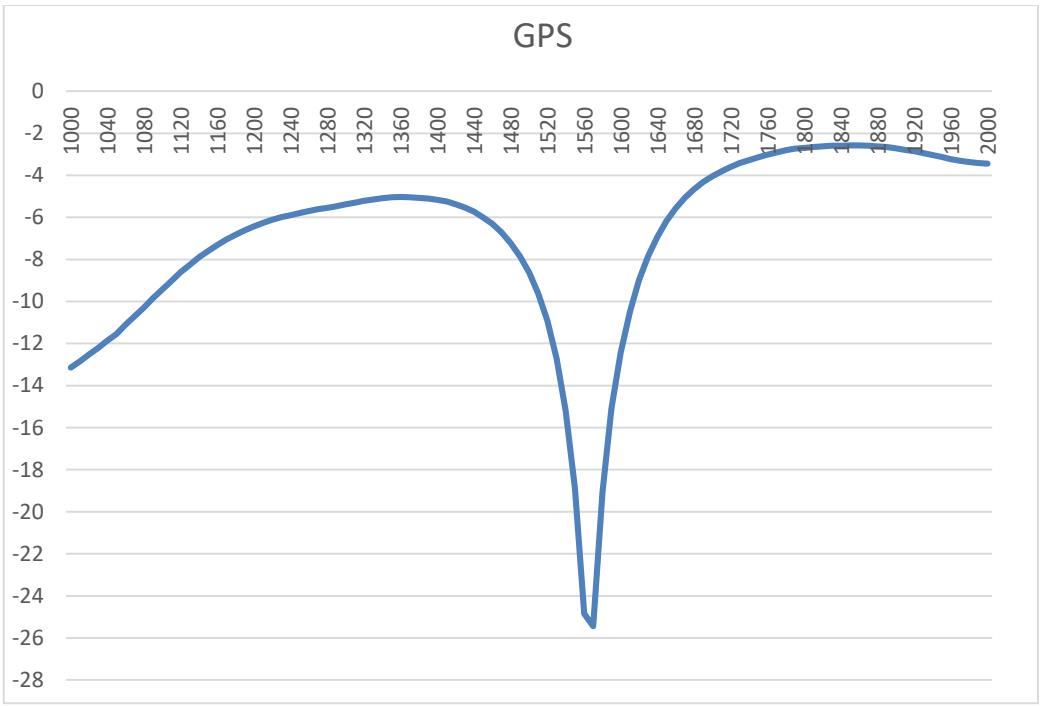
SAA function:	Name:	Sign:	Date
PM	Minghui.song		2024-01-11
RF	Zhenyi.Li		2024-01-11

2. Electrical Performance

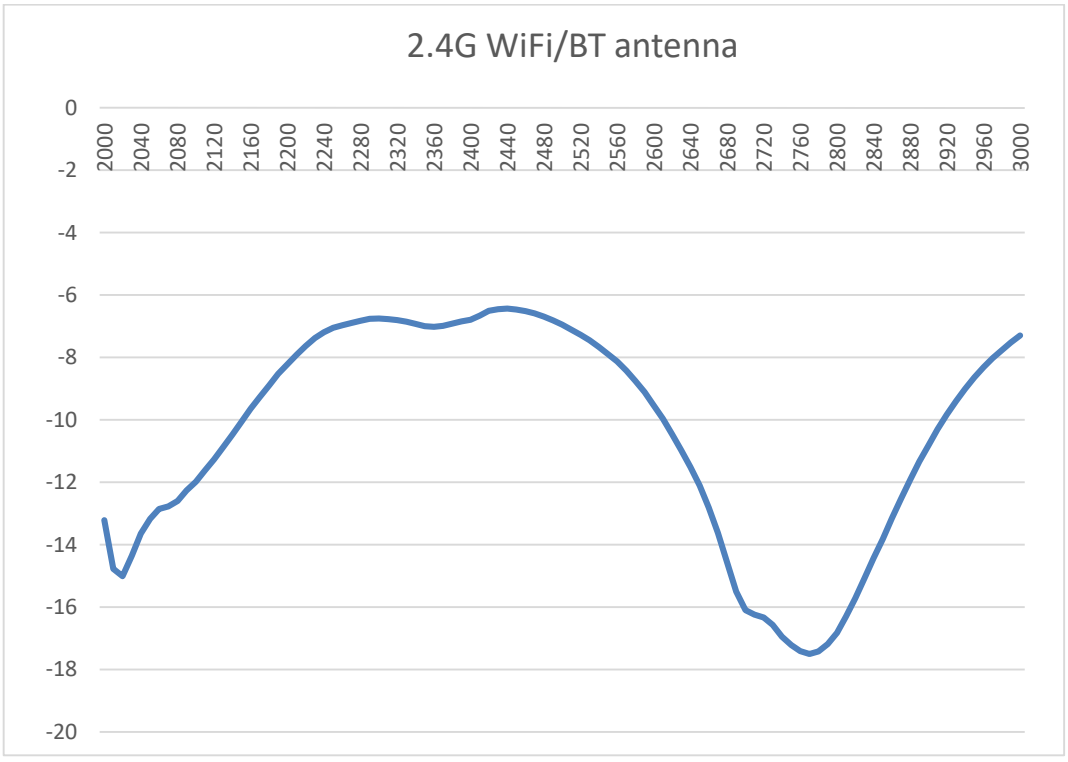
2.1. Measurement Set-up

Return Loss measurements (S_{11}) were performed using an Agilent ENA series Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

2.1.1. Return Loss



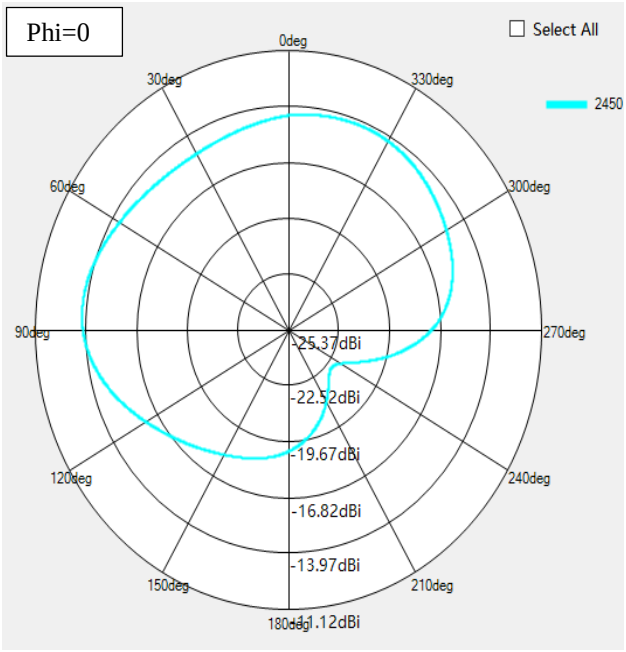
GPS antenna S11

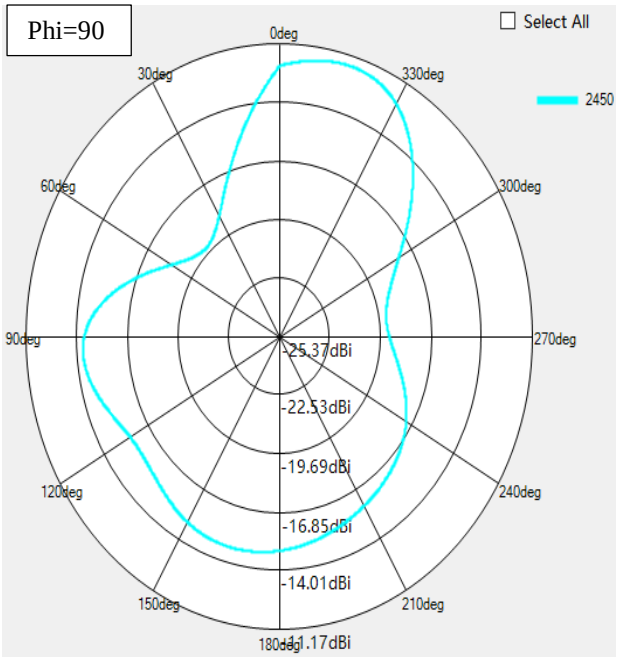


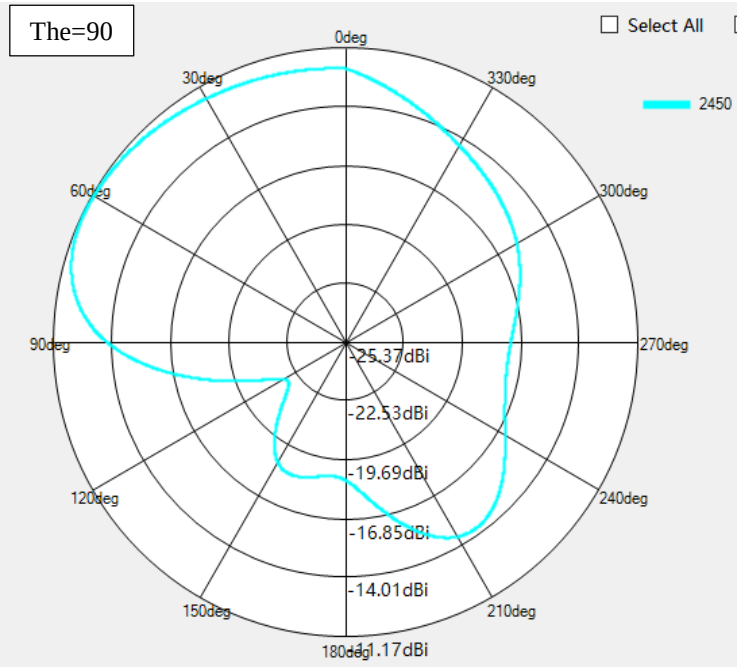
2.4G WiFi/BT antenna S11

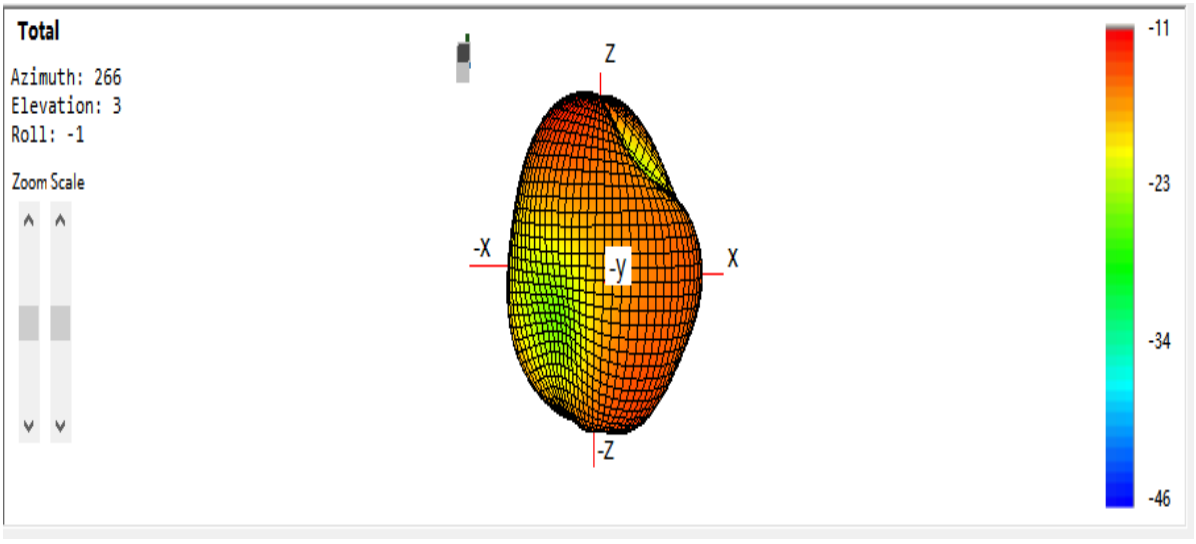
2.4G WIFI/BT Total Efficiency

2.4G WiFi/BT Antenna			
Fre(Mhz)	Eff(db)	Gain(dbi)	Eff(%)
2300	-16.2	-10.2	2.4
2310	-16.2	-10.1	2.4
2320	-16.3	-10.4	2.3
2330	-16.3	-10.5	2.3
2340	-16.3	-10.6	2.3
2350	-16.3	-10.8	2.3
2360	-16.2	-10.9	2.4
2370	-16.1	-11.0	2.5
2380	-16.0	-11.0	2.5
2390	-16.1	-11.1	2.5
2400	-16.2	-11.1	2.4
2410	-16.1	-11.2	2.4
2420	-16.1	-11.2	2.5
2430	-16.0	-11.2	2.5
2440	-15.8	-11.1	2.7
2450	-15.7	-11.0	2.7
2460	-15.7	-11.0	2.7
2470	-15.7	-11.1	2.7
2480	-15.6	-11.1	2.8
2490	-15.6	-11.1	2.8
2500	-15.6	-11.2	2.8
2510	-15.5	-11.0	2.8
2520	-15.4	-10.8	2.9
2530	-15.4	-10.8	2.9
2540	-15.3	-10.4	3.0
2550	-15.2	-10.2	3.0
2560	-15.3	-10.1	3.0
2570	-15.2	-10.1	3.0
2580	-15.2	-9.9	3.0
2590	-15.2	-9.9	3.0
2600	-15.2	-9.9	3.0









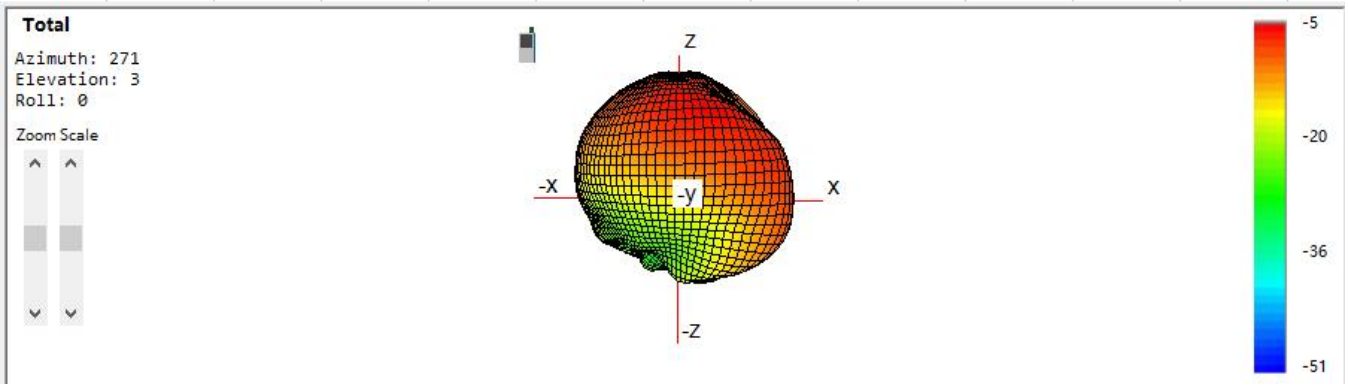
Project:B881 antenna		Author: Zhenyi.li	File Name:
Date: 2024-01-11			
Revision:	A		

SPEED Communication Technology Limited

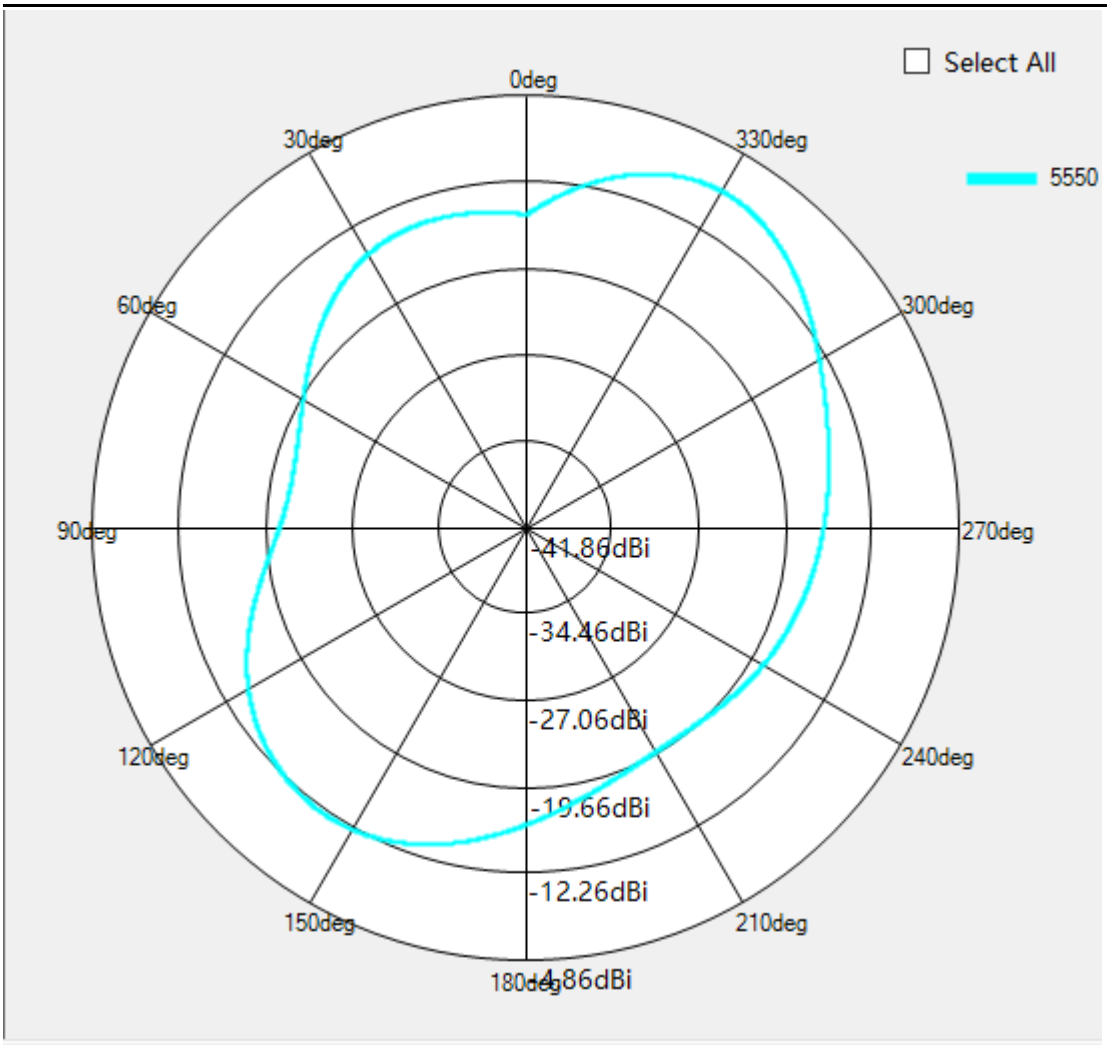
Approval sheet of
B881-5G- antenna

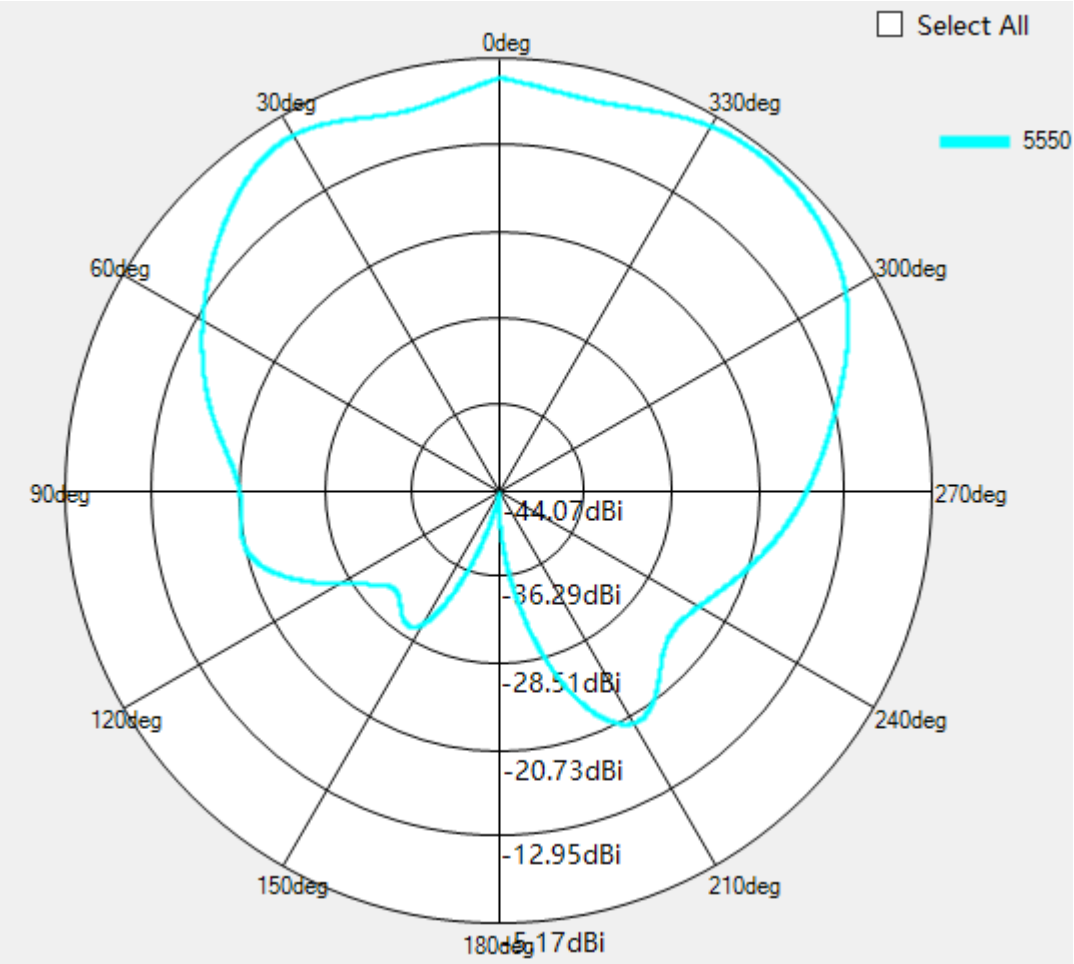
Customer/Project		B881-5G	Frequency Band		
Model antenna		B881-5G			
SCT P/N			Version		A
Date		2024-1-8			
supplier		Huizhou speed wireless technology co.,ltd			
Supplier Address		SX-01-02, Shangxia District, Shuikou Dongjiang Science and Technology Park, Zhongkai High tech Zone, Huizhou City			
Checked by	RF		Designed by	RF	Nina
	ME			ME	Yongbing.xiao
	QC		Remark		
Customer					
Date					
Confirmed by		RF			
		ME			
Remark					

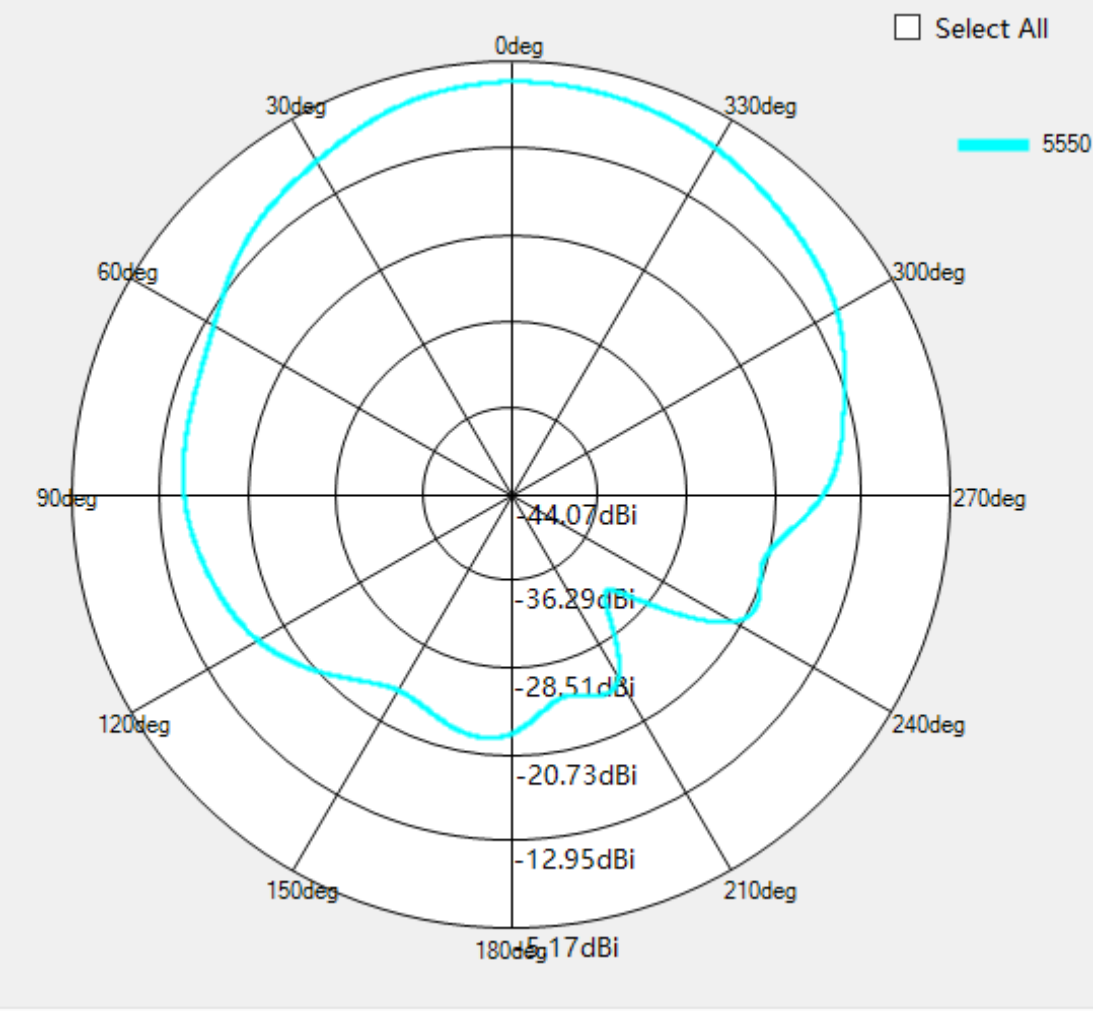
1. Measurement Data



frequency	efficiency/db	gain	efficiency/%
5000	-14.09	-5.98	3.9
5050	-13.82	-6.28	4.15
5100	-13.48	-6.12	4.48
5150	-13.53	-6.26	4.44
5200	-13.34	-6.19	4.64
5250	-13.1	-5.87	4.9
5300	-12.69	-5.47	5.38
5350	-12.26	-5.06	5.95
5400	-12.08	-4.71	6.2
5450	-11.88	-4.53	6.48
5500	-12.05	-4.67	6.23
5550	-12.4	-5.2	5.75
5600	-12.62	-5.36	5.47
5650	-12.92	-5.65	5.1
5700	-13.16	-5.83	4.83
5750	-13.43	-5.93	4.54
5800	-13.56	-6.17	4.41
5850	-13.49	-5.77	4.47
5900	-13.81	-5.99	4.16
5950	-13.99	-6.04	3.99
6000	-14.21	-6.37	3.8


Select All
5550
0deg
30deg
330deg
60deg
300deg
90deg
270deg
120deg
240deg
150deg
210deg
180deg
-41.86dBi
-34.46dBi
-27.06dBi
-19.66dBi
-12.26dBi
-4.86dBi


Select All
5550
0deg
30deg
330deg
60deg
300deg
90deg
270deg
-44.07dBi
-36.29dBi
-28.51dBi
120deg
240deg
-20.73dBi
-12.95dBi
150deg
210deg
180deg
-5.17dBi


Select All
5550
0deg
30deg
330deg
60deg
300deg
90deg
270deg
120deg
240deg
150deg
210deg
180deg
-44.07dBi
-36.29dBi
-28.51dBi
-20.73dBi
-12.95dBi
-5.17dBi