

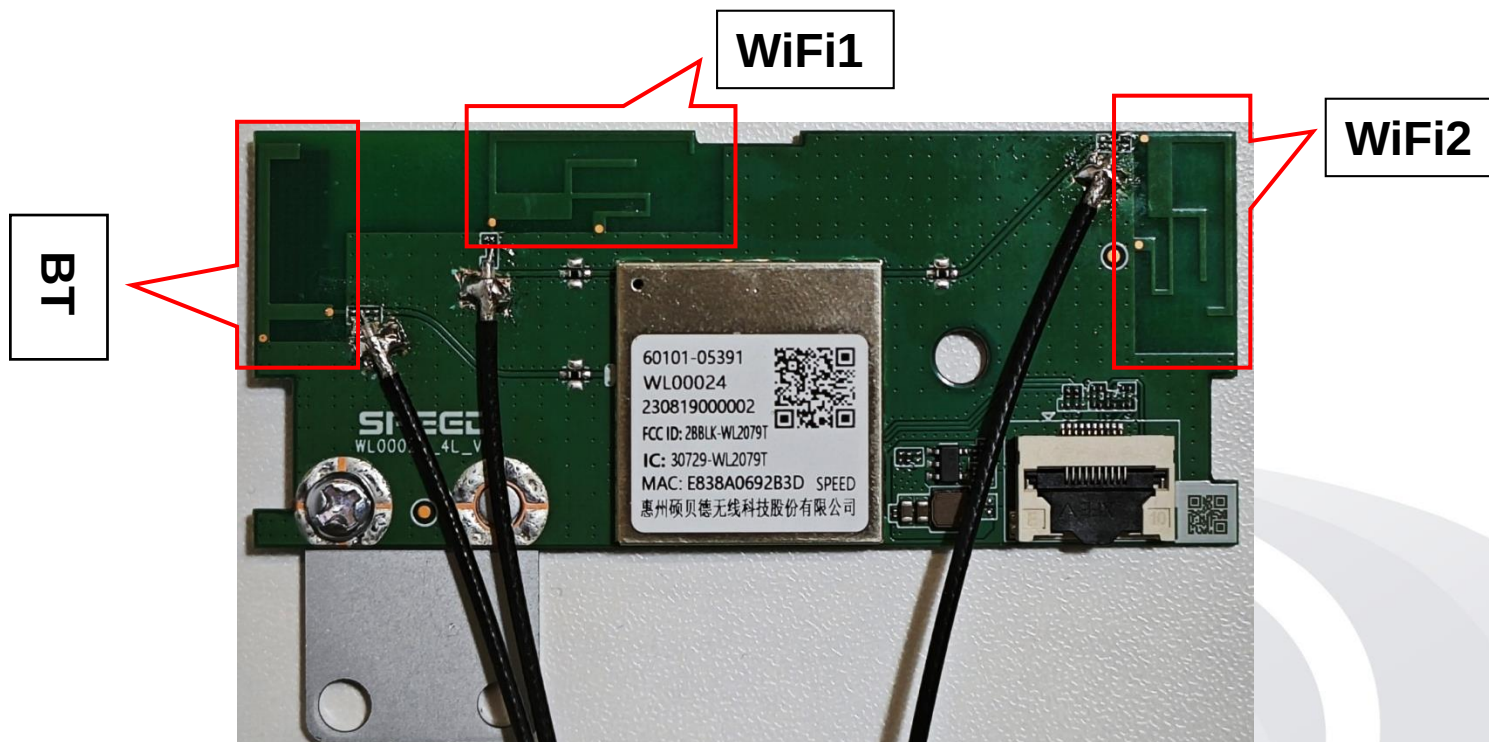
天线优化调试报告

WL00024

Speed Wireless Technology Co.,LTD

2023.09.20

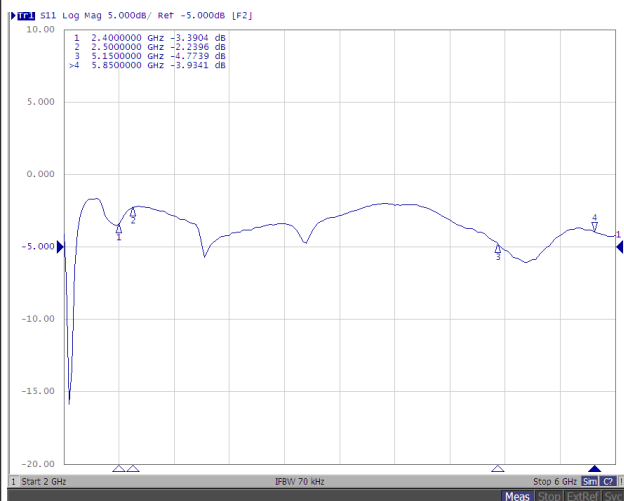
General introduction:



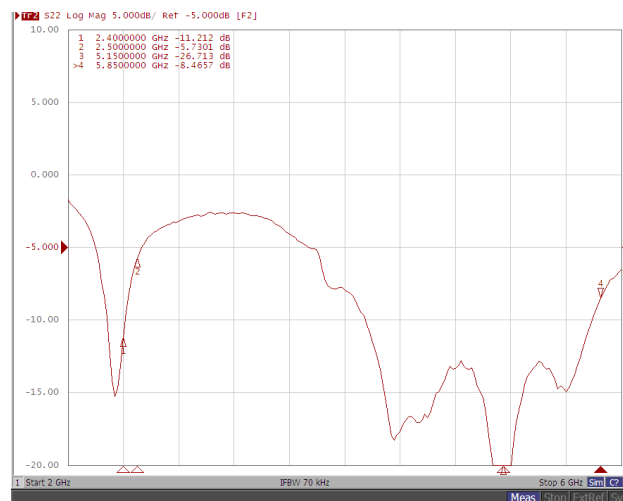
频段信息: BT: 2.4-2.5GHz WIFI: 2.4-2.5GHz 5.15G-5.85GHz

天线形式: 板载

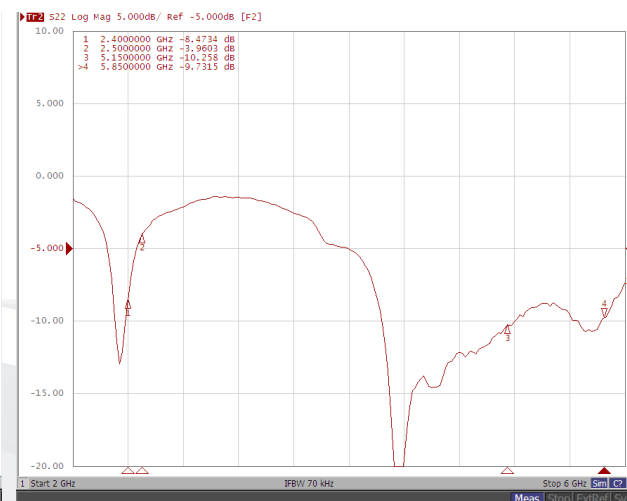
Return Loss



BT

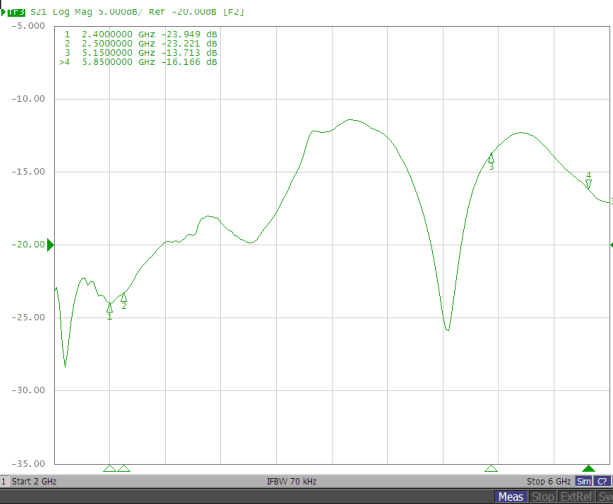


WIFI1

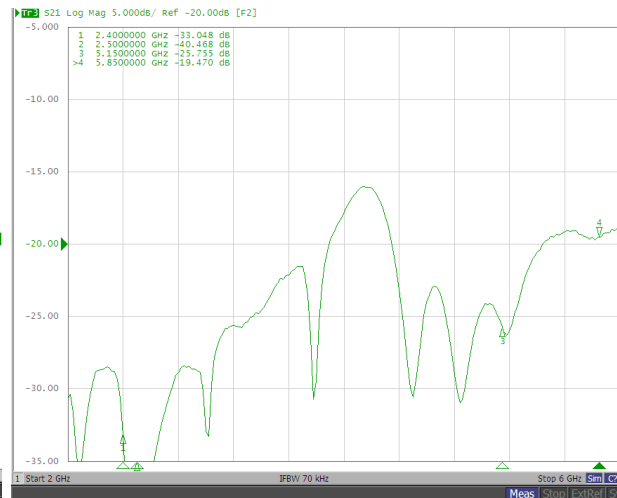


WIFI2

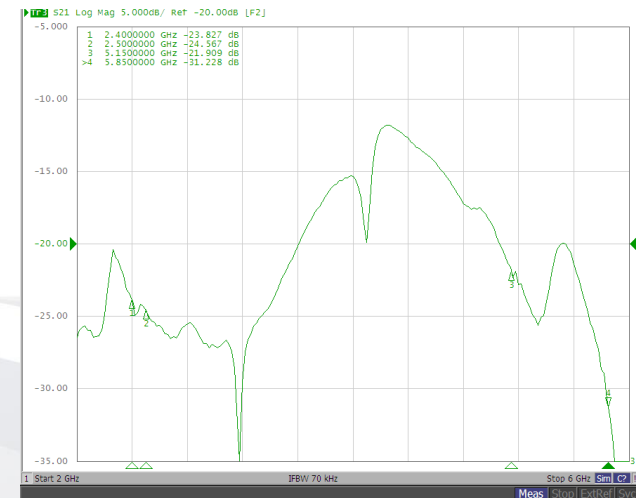
Isolation



BT&WIFI1



BT&WIFI2



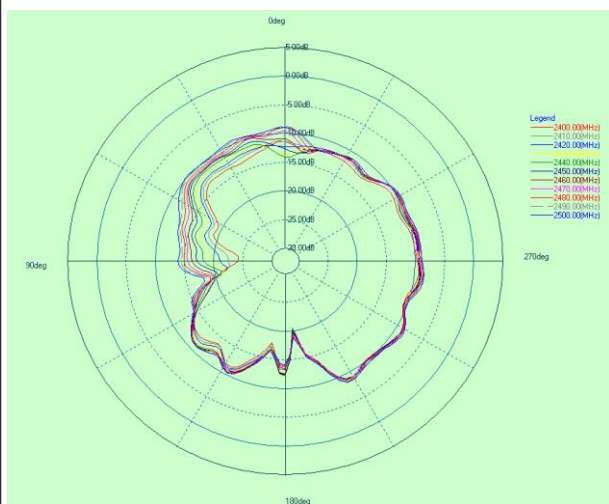
WIFI1&WIFI2

Gain&Efficiency

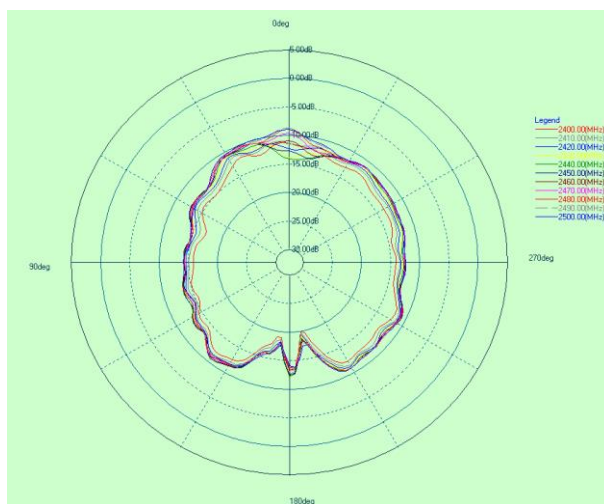
B T			W F I I			W F I Z		
Frequency	G a i n	E f f i	Frequency	G a i n	E f f i	Frequency	G a i n	E f f i
2400	-7.05	7.5%	2400	3.6	72.3%	2400	2.4	61.3%
2410	-6.85	8.0%	2410	3.4	70.4%	2410	2.2	58.4%
2420	-6.91	8.2%	2420	3.1	68.0%	2420	1.9	54.8%
2430	-7.07	8.4%	2430	2.8	65.6%	2430	1.6	53.8%
2440	-7.23	8.6%	2440	2.5	63.8%	2440	1.3	52.8%
2450	-7.37	8.7%	2450	2.3	62.5%	2450	0.9	51.5%
2460	-7.41	8.8%	2460	2.2	61.7%	2460	0.7	50.5%
2470	-7.4	8.9%	2470	2.2	61.6%	2470	0.6	50.4%
2480	-7.34	9.0%	2480	2.2	61.7%	2480	0.6	50.4%
2490	-6.96	9.2%	2490	2.1	61.3%	2490	0.4	49.9%
2500	-6.71	9.3%	2500	1.9	59.9%	2500	0.4	48.4%
			5150	2.9	75.4%	5150	2.7	65.8%
			5200	3.5	77.5%	5200	2.7	70.2%
			5250	3.7	77.2%	5250	3.2	72.2%
			5300	3.6	73.6%	5300	2.7	68.8%
			5350	3.5	66.9%	5350	2.2	64.3%
			5400	3.3	64.6%	5400	2.4	66.8%
			5450	2.9	63.2%	5450	2.8	69.2%
			5500	2.3	61.2%	5500	2.7	65.2%
			5550	2.5	65.9%	5550	2.5	65.1%
			5600	3.1	70.2%	5600	3.1	69.1%
			5650	2.9	68.0%	5650	3.0	65.0%
			5700	3.0	70.0%	5700	2.9	64.6%
			5750	3.0	71.2%	5750	3.0	68.2%
			5800	2.9	67.1%	5800	2.8	66.3%
			5850	3.0	64.9%	5850	2.5	61.8%

2D Radiation Pattern

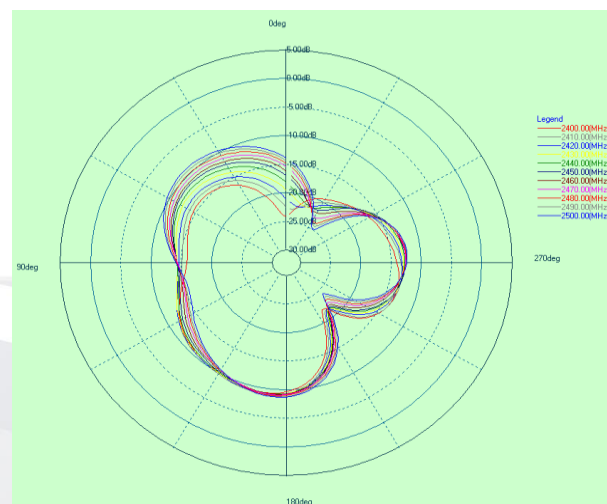
BT



$\Phi=0^\circ$
XZ面



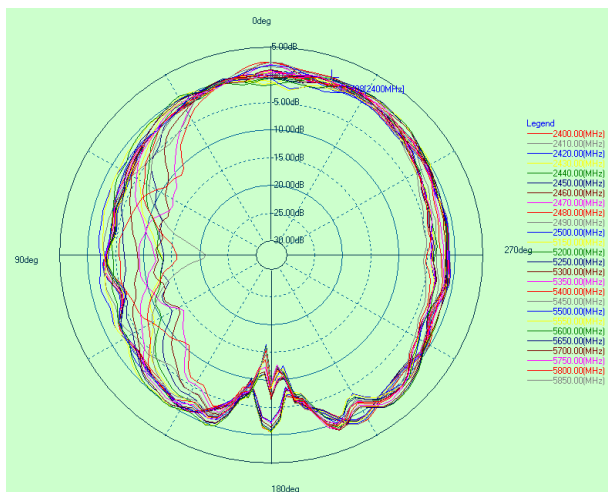
$\Phi=90^\circ$
YZ面



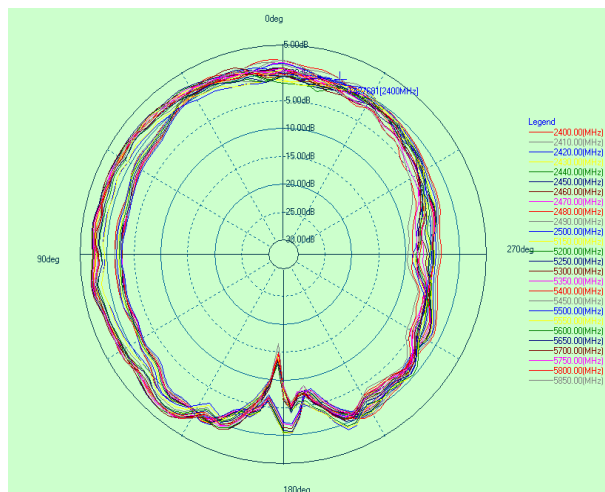
$\Theta=90^\circ$
XY面

2D Radiation Pattern

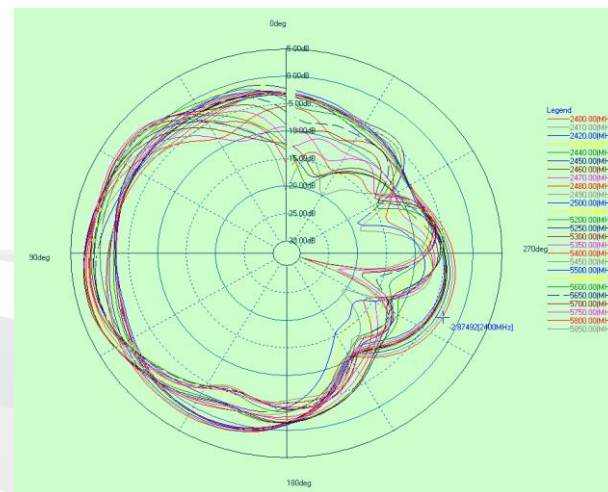
WIFI1



$\Phi=0^\circ$
XZ面



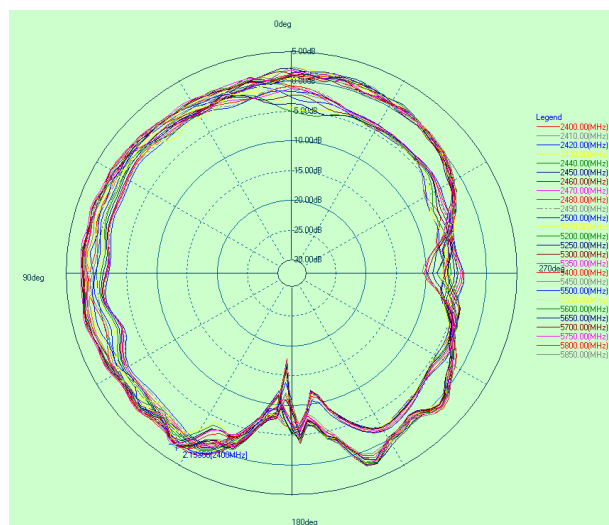
$\Phi=90^\circ$
YZ面



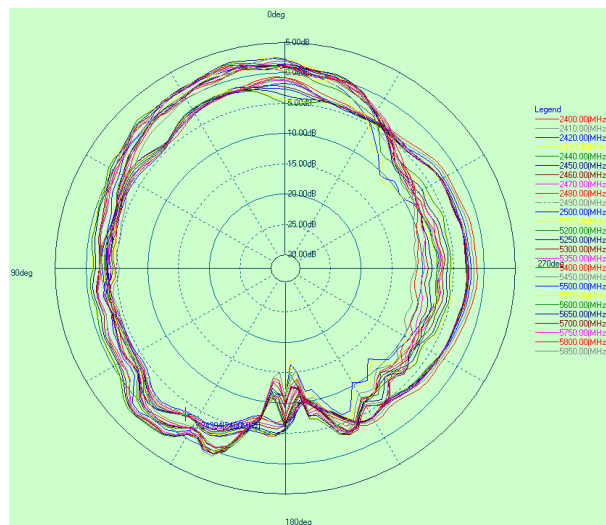
$\Theta=90^\circ$
XY面

2D Radiation Pattern

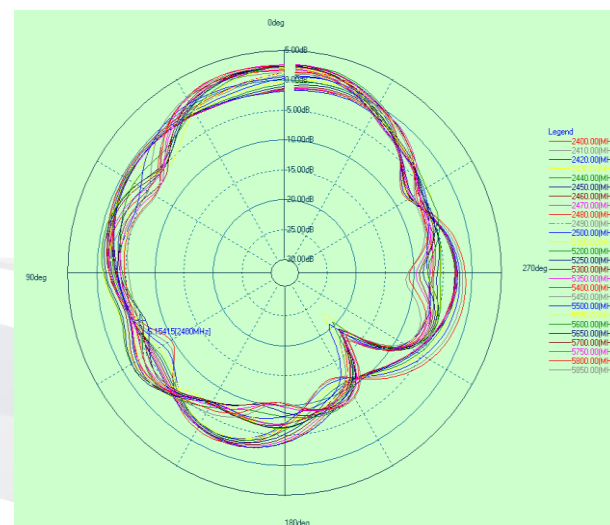
WIFI2



$\Phi=0^\circ$
XZ面



$\Phi=90^\circ$
YZ面



$\Theta=90^\circ$
XY面

Thanks!