



SHENZHEN YINGJIACHUANG ELECTRONIC TECHNOLOGY CO.,LTD.

Product Antenna Tuning Report

TIME: 2022/05/09

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Hangzhou

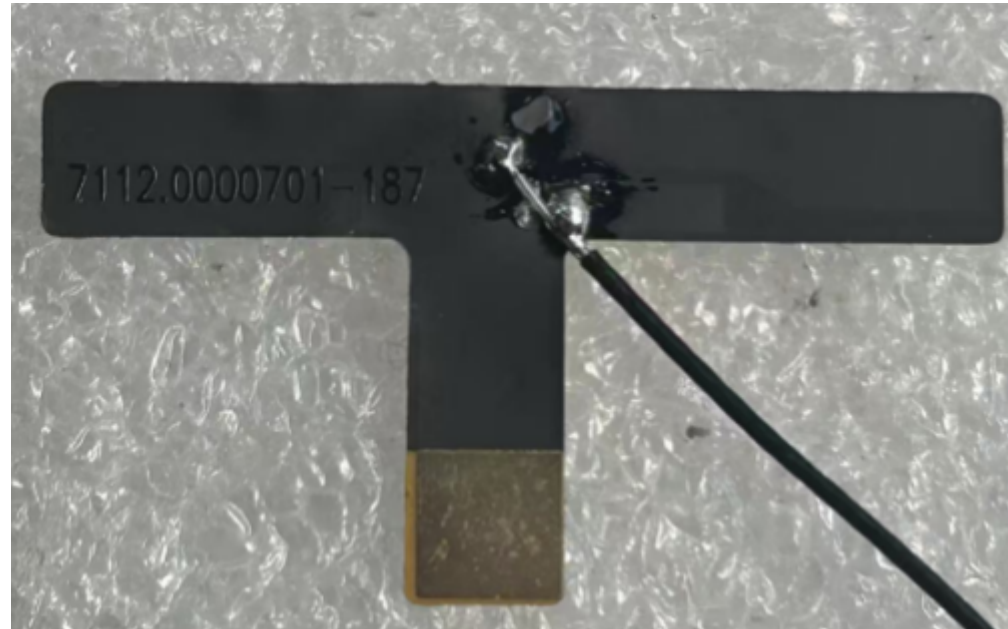
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Map of antenna position:



WIFI ANT& BT ANT

OTA

Item	Measurement	Azimuths	Elevations	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	18.01	-0.34	13.89
2	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	18.01	-3.69	13.74
3	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	17.16	-4.91	13.45
4	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	-64.37	-82.83	-78.61
5	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	-60.88	-82.08	-77.87
6	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	-61.83	-83.31	-79.17
7	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	1	2412	17.5	-1.81	13.16
8	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	6	2437	16.23	-4.95	12.07
9	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	11	2462	15.6	-6.34	11.51
10	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	1	2412	-49.81	-69.52	-65.14
11	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	6	2437	-47.07	-69.63	-65.46
12	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	11	2462	-48.01	-70.06	-65.86
13	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	16.33	-3.6	12.11
14	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	15.21	-7	11.15
15	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	14.51	-9.92	10.41
16	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	-46.75	-66.46	-62.31
17	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	-44.36	-65.99	-61.91
18	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	-42.54	-67.25	-62.98
19	TRP	Every30	Every30	WIFI (AP)	WIFI_A (54M)	36	5180	20.7	-3.94	14.66
20	TRP	Every30	Every30	WIFI (AP)	WIFI_A (54M)	100	5500	22.8	-3.53	15.64
21	TRP	Every30	Every30	WIFI (AP)	WIFI_A (54M)	165	5825	25.52	-0.55	17.82
22	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_A (54M)	36	5180	-51.63	-77.03	-70.95
23	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_A (54M)	100	5500	-52.03	-78.74	-71.55
24	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_A (54M)	165	5825	-51.51	-77.56	-69.91

WIFI Subnet Test Standing Wave Map



WIFI1/BT Passive Test Data

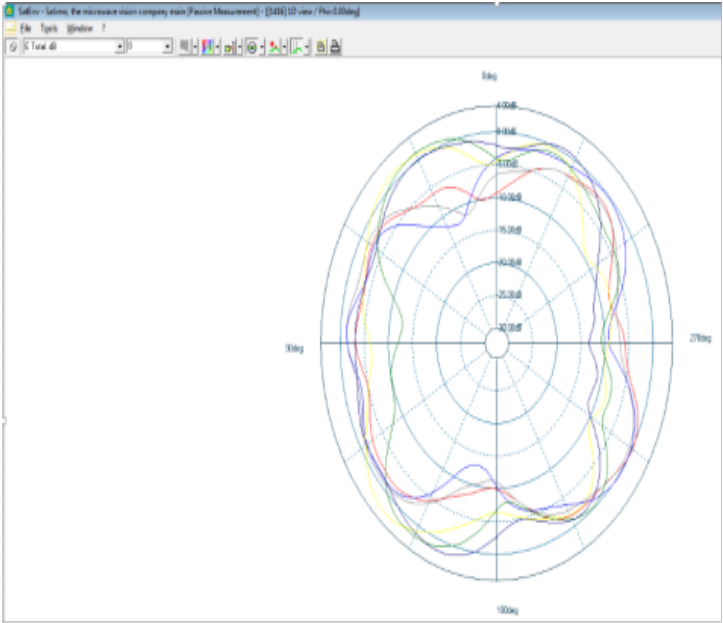
Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	65%	-1.87	6.04
2410	62%	-2.05	5.85
2420	65%	-1.90	6.03
2430	66%	-1.78	5.95
2440	66%	-1.80	5.73
2450	67%	-1.72	5.68
2460	67%	-1.76	5.59
2470	66%	-1.79	5.50
2480	66%	-1.78	5.72
2490	67%	-1.74	5.74
2500	67%	-1.75	5.46
5150	49%	-3.08	3.37
5200	49%	-3.09	3.15
5250	51%	-2.96	3.07
5300	53%	-2.75	3.23
5350	55%	-2.56	3.10
5400	55%	-2.57	2.93
5450	55%	-2.60	2.78
5500	55%	-2.60	2.84
5550	56%	-2.54	2.79
5600	55%	-2.64	2.70
5650	54%	-2.65	2.69
5700	56%	-2.53	2.78
5750	55%	-2.63	2.56
5800	54%	-2.65	2.55
5850	57%	-2.44	2.67

WIFI2 Passive Test Data

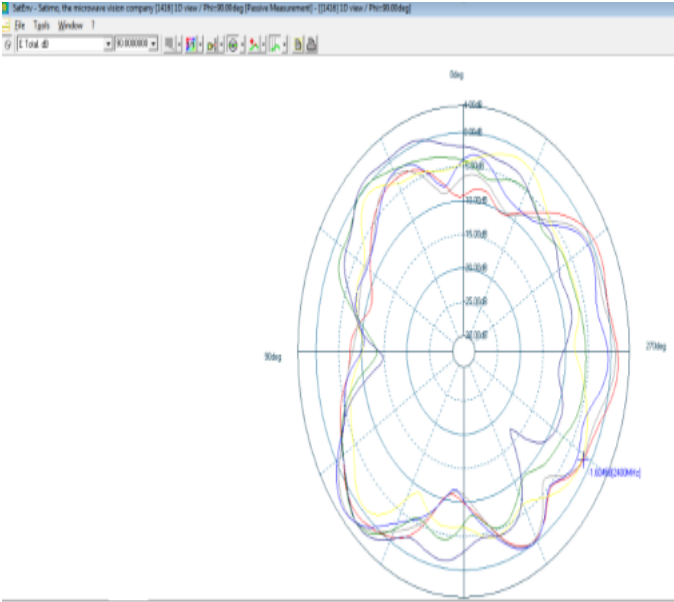
Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	60%	-2.21	5.31
2410	59%	-2.32	4.84
2420	59%	-2.31	4.65
2430	61%	-2.18	4.73
2440	60%	-2.25	4.48
2450	60%	-2.20	4.39
2460	59%	-2.27	4.06
2470	60%	-2.25	4.55
2480	60%	-2.20	4.60
2490	61%	-2.16	4.29
2500	61%	-2.12	4.19
5150	61%	-2.16	3.80
5200	59%	-2.27	3.76
5250	59%	-2.29	3.78
5300	59%	-2.32	3.63
5350	59%	-2.27	3.38
5400	58%	-2.39	3.45
5450	55%	-2.63	3.46
5500	52%	-2.83	3.66
5550	49%	-3.11	3.44
5600	45%	-3.44	3.13
5650	43%	-3.68	2.98
5700	41%	-3.91	2.60
5750	39%	-4.14	2.04
5800	38%	-4.23	1.86
5850	38%	-4.15	1.59

WIFI/BT Test 2D Diagram

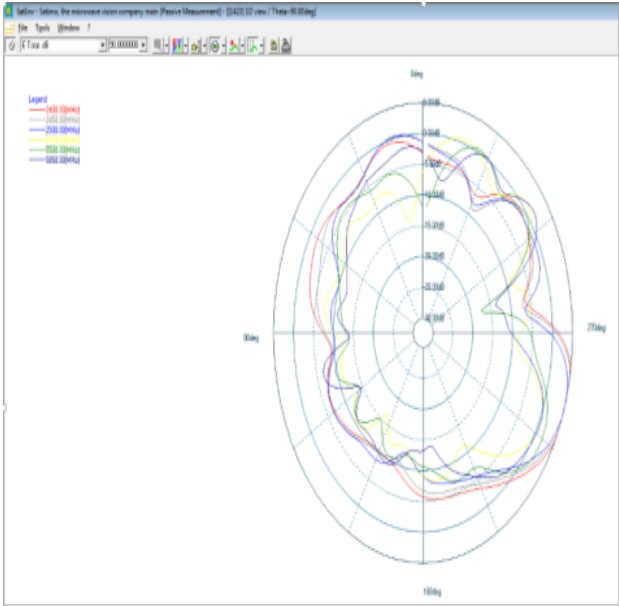
Phi 0



Phi 90

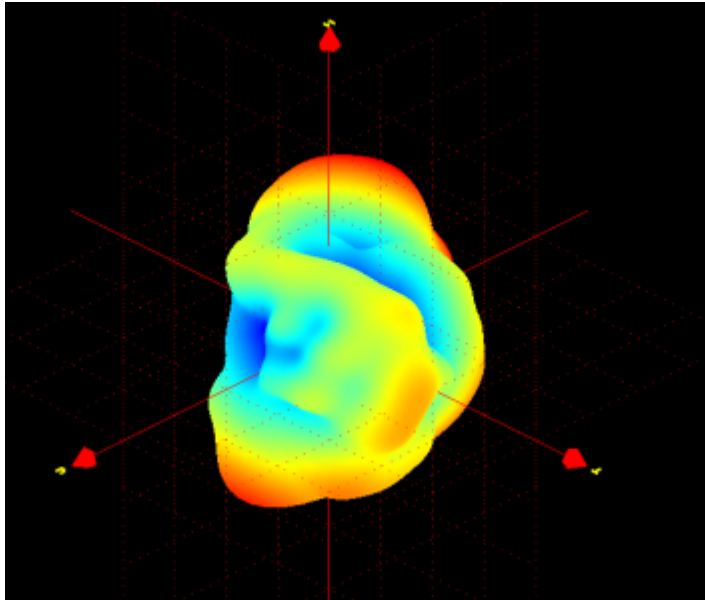


Theta 90

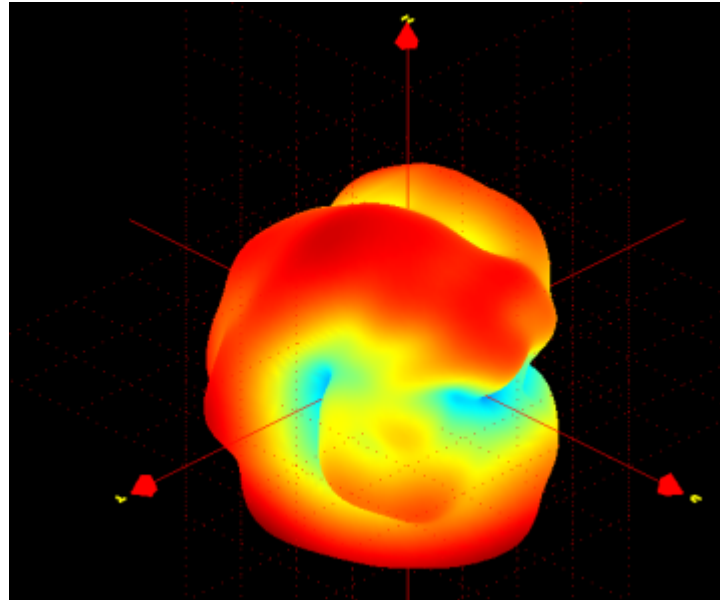


WIFI Test 3D Diagram

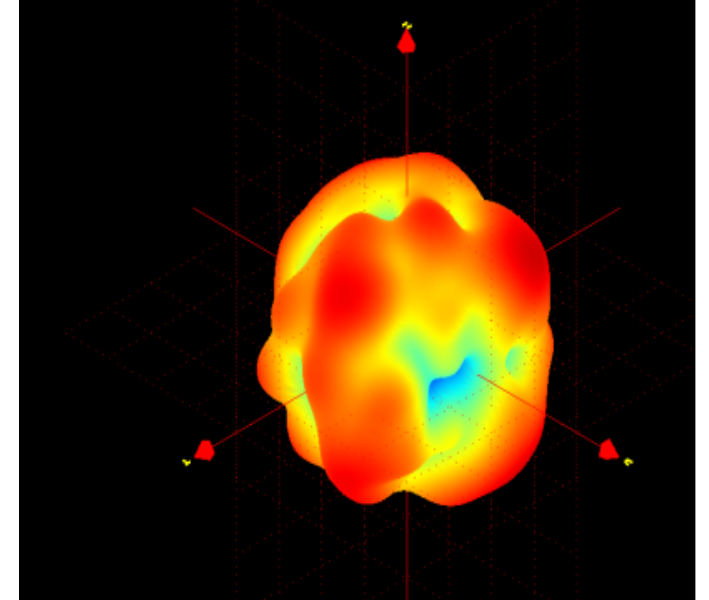
2400



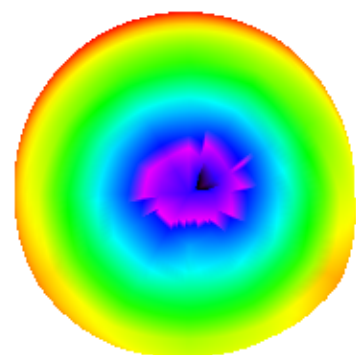
2450



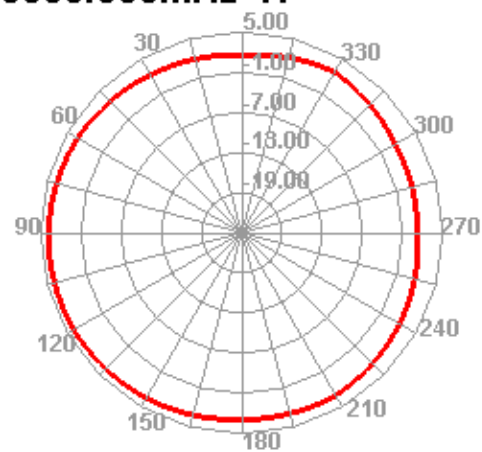
2500



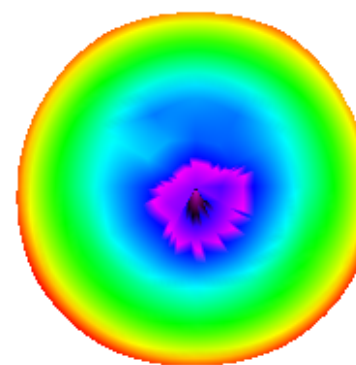
5000.000MHz



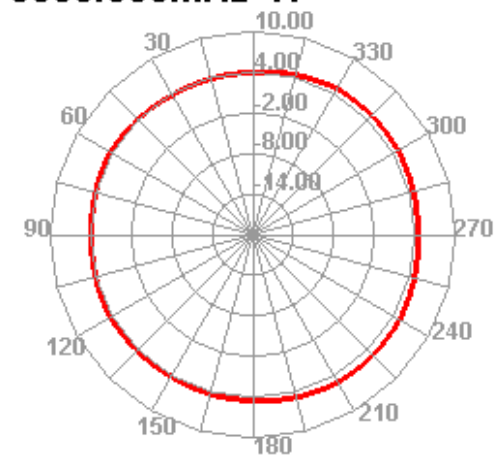
5000.000MHz H



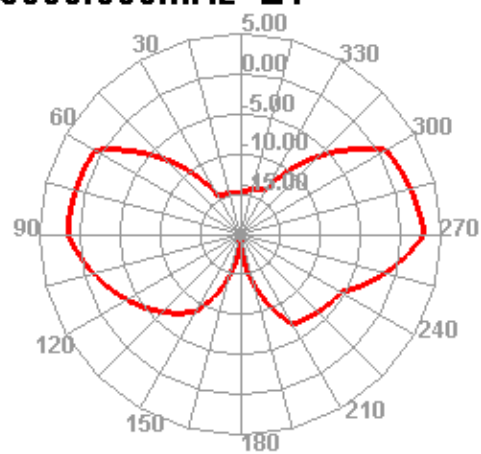
5500.000MHz



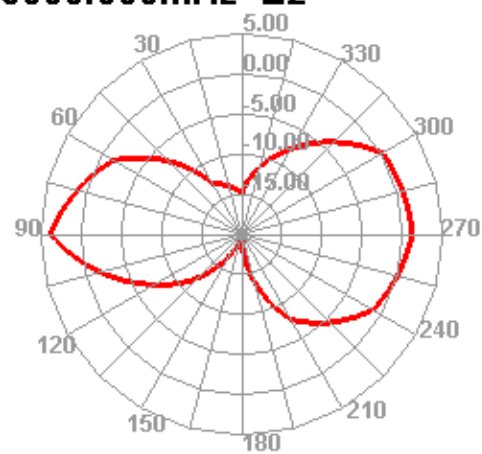
5500.000MHz H



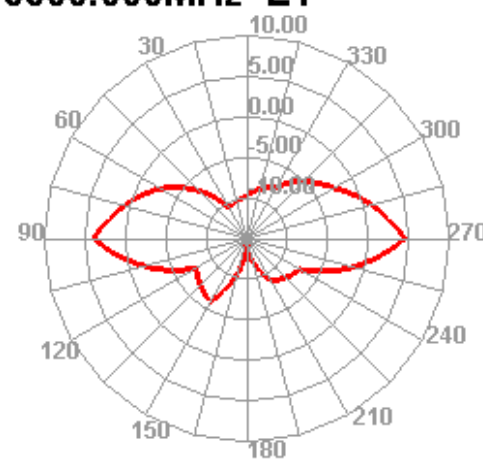
5000.000MHz E1



5000.000MHz E2



5500.000MHz E1



5500.000MHz E2

