

Antenna Test Report

TC:

MN: DA-DVD01

RF: DAI

MD: HUANG

MP:

Date: 2023. 12. 26

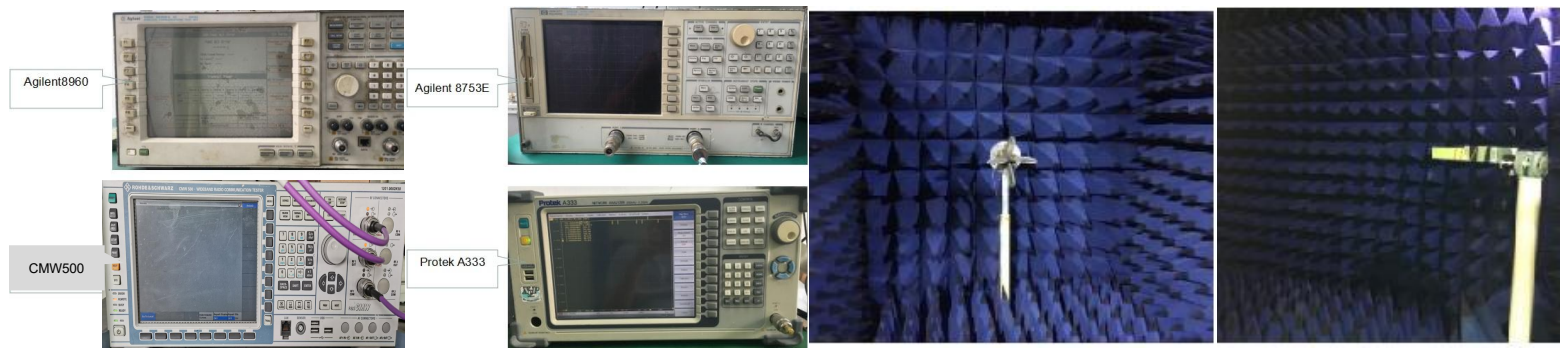
REV :V1. 0

Antenna information

Antenna Type	PCB Antenna	
Antenna Gain	0.55 dBi for BT/WIFI 2.4G 1.08 dBi for WIFI 5.2G	
	1. (Gain) 2. (Efficiency)	

Test environment

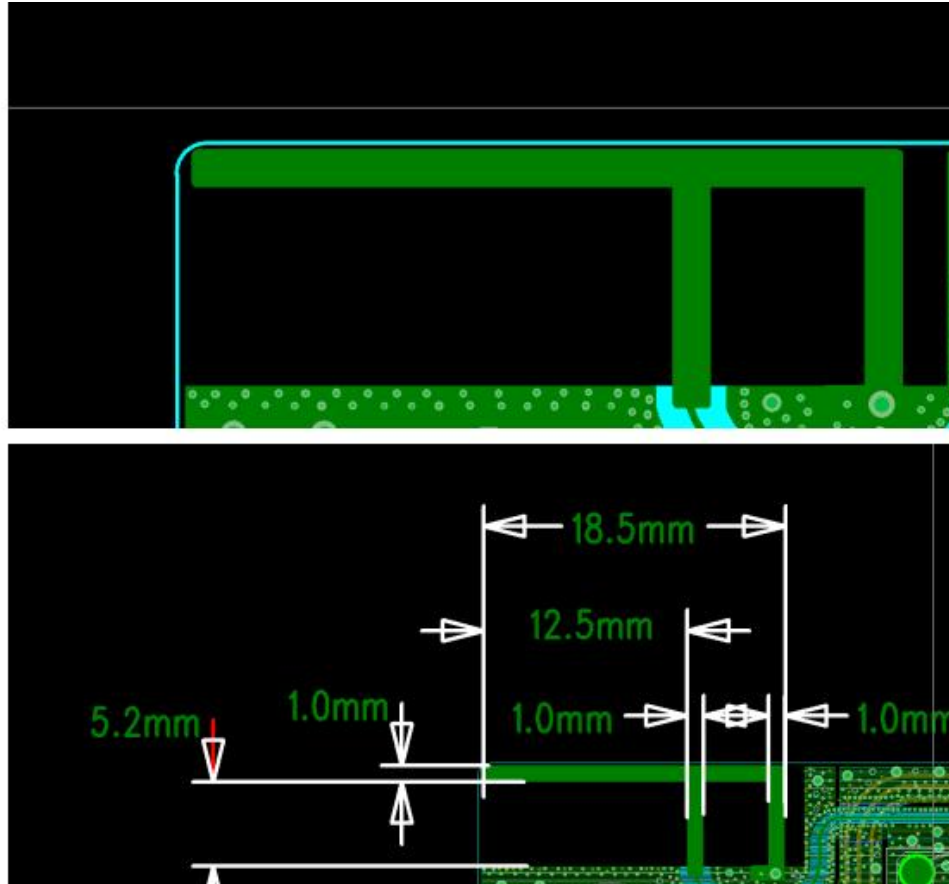
	测试项目	测试设备
S (S-parameter)	1. (VSWR) 2. (Rrtun Loss)	Agilent8753ES
2. (Active)	1. (TRP) 2. (TIS)	1.5*3*3m (3D) Chamber 2. Agilent8960 CMW500
3. (Passive)	1. (Gain) 2. (Efficiency)	1.5*3*3m (3D) Chamber 2:Agilent 8753ES



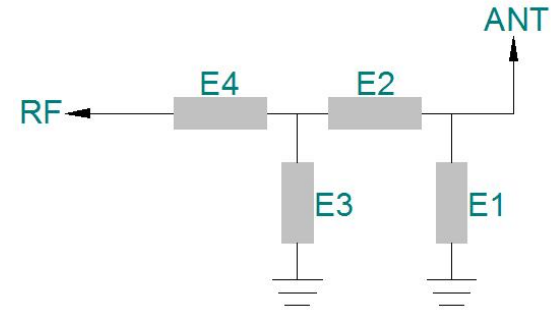
Antenna position



Antenna position



Matching circuit



	(PF)	(NH)
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

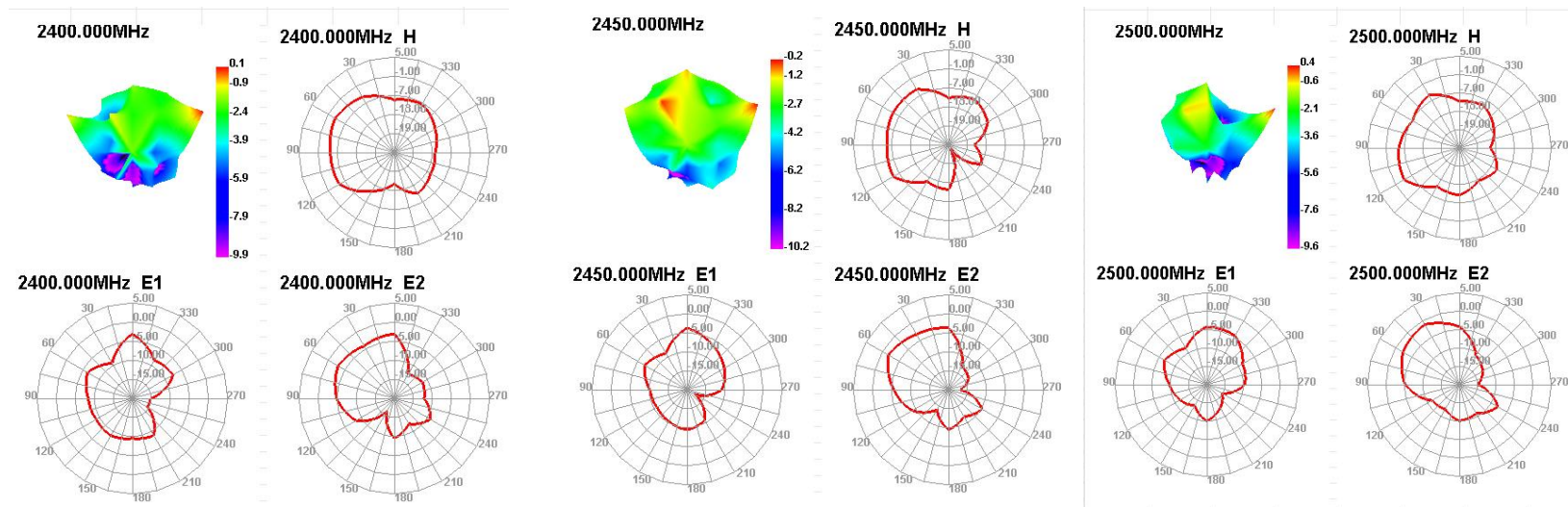
ANT1 GAIN&Efficiency-WIFI2.4G/BT

Passive test data

Passive Test For WIFI2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	17.93	-7.47	0.12	-2.03	12.231	5.694	0.12	-17.53	7.59	0	45.78	46.01
2410	16.92	-7.72	-0.14	-2.29	11.602	5.313	-0.14	-18.32	7.58	0	46.01	46.29
2420	17.54	-7.56	0.06	-2.09	12.085	5.454	0.06	-17.52	7.62	0	45.73	46.01
2430	16.95	-7.71	-0.04	-2.19	11.79	5.161	-0.04	-18.52	7.66	0	46.01	46.36
2440	16.06	-7.94	-0.26	-2.41	11.2	4.858	-0.26	-22.55	7.69	0	46.12	46.48
2450	16.2	-7.9	-0.16	-2.31	11.265	4.934	-0.16	-23.59	7.74	30	46.12	46.54
2460	16.81	-7.74	0.01	-2.14	11.747	5.066	0.01	-22.15	7.75	30	46.14	46.52
2470	15.87	-7.99	-0.17	-2.32	11.209	4.664	-0.17	-19.3	7.82	30	46.4	46.8
2480	16.37	-7.86	0.09	-2.06	11.526	4.848	0.09	-17.69	7.94	30	46.26	46.64
2490	17.57	-7.55	0.55	-1.6	12.289	5.28	0.55	-17.18	8.1	30	46.51	46.91
2500	16.46	-7.84	0.44	-1.71	11.551	4.911	0.44	-16.74	8.27	30	46.47	46.86

ANT1 Direction of figure(2.4/BT)

Passive test data



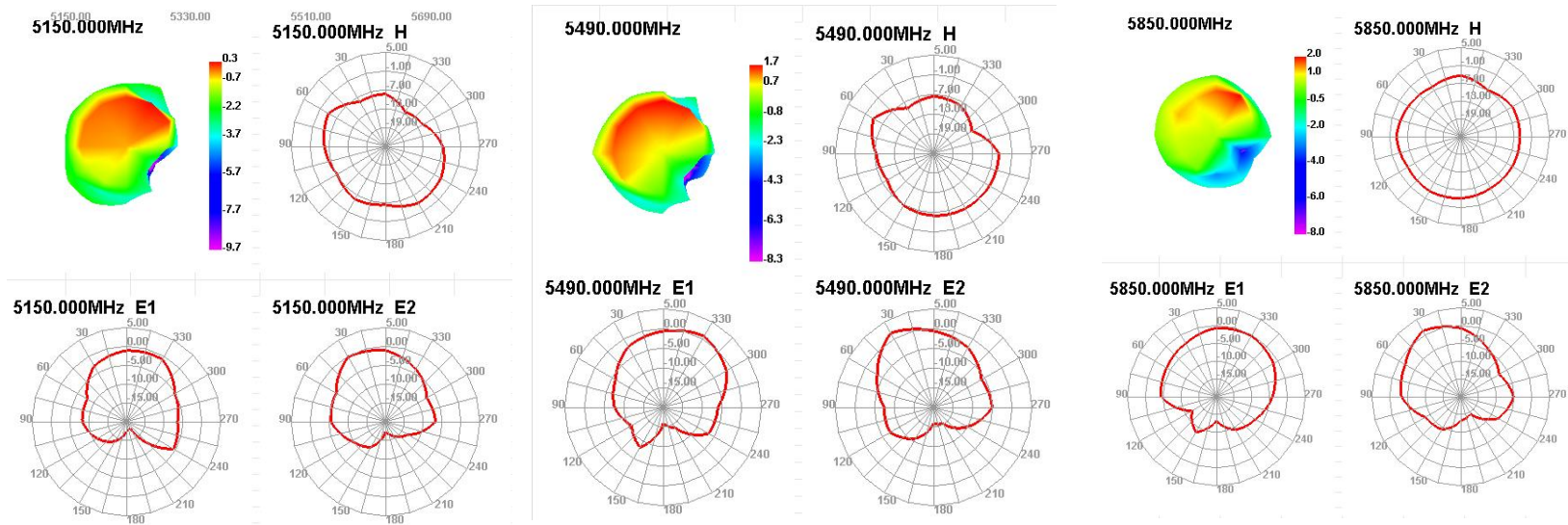
ANT1 GAIN&Efficiency-WIFI5G

Passive test data

Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	12.83	-6.41	0.29	-1.86	7.047	5.784	0.29	-20.86	6.71	60	49.82	49.4
5170	14.42	-6.12	0.52	-1.63	8.373	6.049	0.52	-21.36	6.64	60	50.13	49.77
5190	14.47	-6.11	0.39	-1.76	8.246	6.223	0.39	-21.25	6.5	60	50.42	49.95
5210	18.91	-5.39	0.93	-1.22	11.506	7.402	0.93	-18.97	6.32	60	50.88	50.49
5230	16.15	-5.82	0.46	-1.69	9.708	6.446	0.46	-19.8	6.28	60	50.42	50.08
5250	20.3	-5.19	1.08	-1.07	13.142	7.159	1.08	-19.35	6.27	60	51.02	50.72
5270	19.37	-5.32	0.82	-1.33	12.382	6.983	0.82	-23.53	6.15	60	50.85	50.6
5290	21.76	-4.98	1.24	-0.91	13.941	7.818	1.24	-21.25	6.22	60	51.34	51.12
5310	19.36	-5.32	0.93	-1.22	12.172	7.187	0.93	-19.8	6.25	90	50.44	50.36
5330	19.46	-5.31	1.06	-1.09	12.561	6.894	1.06	-21.01	6.37	90	51.08	51.01
5350	20.6	-5.14	1.26	-0.89	13.576	7.022	1.26	-23.49	6.4	90	51.02	51.01
5370	19.3	-5.33	1.05	-1.1	12.234	7.067	1.05	-22.48	6.38	90	50.91	50.95
5390	17.55	-5.6	0.83	-1.32	10.656	6.891	0.83	-21.21	6.42	90	50.46	50.43
5410	21.54	-5.01	1.56	-0.59	13.889	7.649	1.56	-20.74	6.57	90	51.18	51.09
5430	19.86	-5.25	1.56	-0.59	12.943	6.916	1.56	-20.29	6.81	90	50.69	50.7
5450	20.89	-5.1	1.71	-0.44	13.703	7.19	1.71	-21.37	6.82	90	50.71	50.85
5470	21.02	-5.08	1.64	-0.51	13.458	7.565	1.64	-19.82	6.73	60	50.93	50.83
5490	20.15	-5.21	1.73	-0.42	12.803	7.346	1.73	-18.98	6.93	60	50.92	50.79
5510	22.34	-4.9	2.13	-0.02	14.844	7.497	2.13	-19.09	7.04	60	51.18	51.16
5530	21.58	-5.01	2.04	-0.11	14.362	7.217	2.04	-20.12	7.05	60	51.44	51.3
5550	24.89	-4.57	2.46	0.31	16.711	8.182	2.46	-21.13	7.04	60	51.89	51.76
5570	21.15	-5.07	1.85	-0.3	13.632	7.517	1.85	-22.73	6.91	60	51.42	51.33
5590	22.68	-4.86	2.03	-0.12	14.906	7.771	2.03	-21.93	6.89	60	51.71	51.76
5610	19.56	-5.29	1.68	-0.47	12.637	6.921	1.68	-22.87	6.97	60	51.17	51.22
5630	21.69	-4.99	1.98	-0.17	14.226	7.466	1.98	-21.95	6.97	60	51.78	51.77
5650	19.56	-5.29	1.72	-0.43	12.523	7.033	1.72	-20.53	7.01	60	51.47	51.55
5670	19.35	-5.32	1.62	-0.53	12.378	6.975	1.62	-20.53	6.95	60	52.12	52.28
5690	18.92	-5.39	1.69	-0.46	12.121	6.795	1.69	-20.15	7.08	60	52.12	52.25
5710	16.27	-5.8	1.16	-0.99	9.983	6.291	1.16	-19.85	6.97	60	51.95	52.05
5730	21.05	-5.08	1.95	-0.2	13.516	7.533	1.95	-18.89	7.03	60	51.59	51.69
5750	16.26	-5.81	1.48	-0.67	9.817	6.445	1.48	-19.92	7.28	60	51.12	51.15
5770	20.14	-5.21	2.19	0.04	12.826	7.31	2.19	-18.68	7.4	60	51.02	51.06
5790	17.08	-5.67	1.67	-0.48	10.518	6.561	1.67	-19.41	7.34	60	51.08	51.16
5810	20.41	-5.17	1.85	-0.3	12.955	7.45	1.85	-20.24	7.02	90	51.36	51.43
5830	19.83	-5.25	1.57	-0.58	12.36	7.472	1.57	-19.3	6.82	90	51.65	51.66
5850	23.83	-4.71	2.05	-0.1	15.277	8.549	2.05	-17.45	6.75	90	51.88	52.05

ANT1 Direction of figure(5G)

Passive test data





T h a n k y o u