

天线测试报告

客户名称：海兰

项目名称：

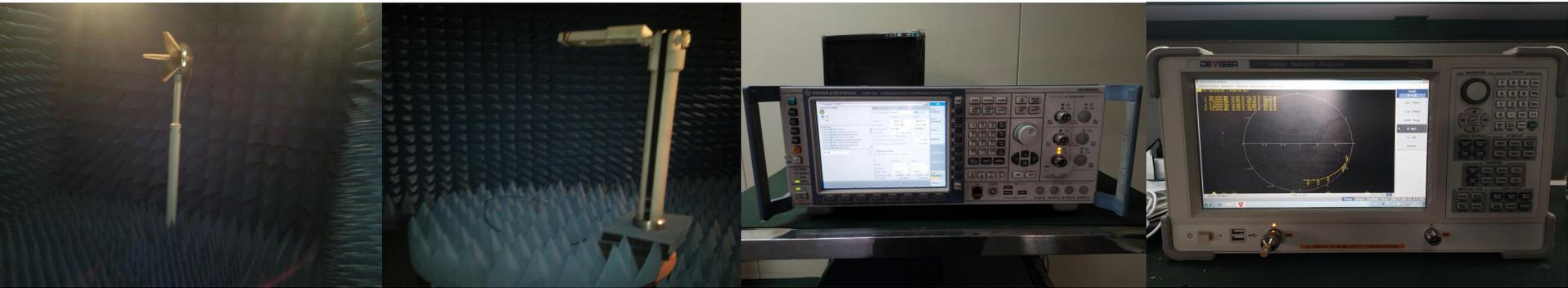
设计者：吴工

日期：2022-02-12

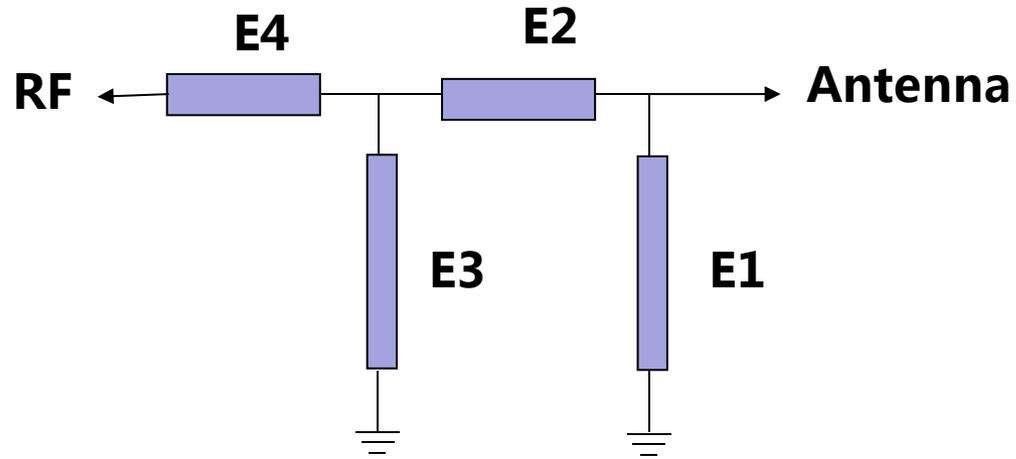


项目名称			
NO.	项目		
1	频段	2.4G-5.8G--wifi	
2	项目类型		
3	天线空间面积		
4	馈点类型	PIFA	
5	灵敏度		
6	天线类型	FPC	
7	料号	F1314A	
8			
RF			

测试系统及测试设备

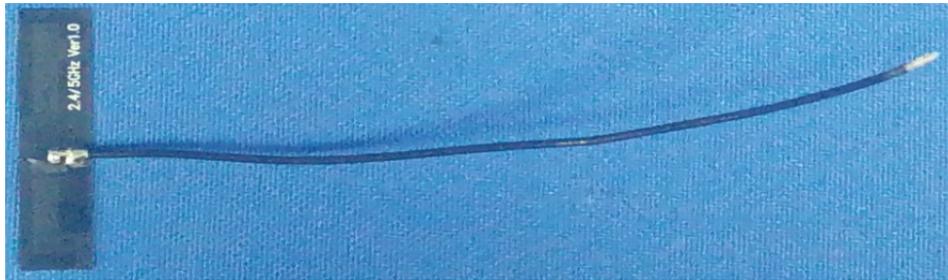


匹配电路图

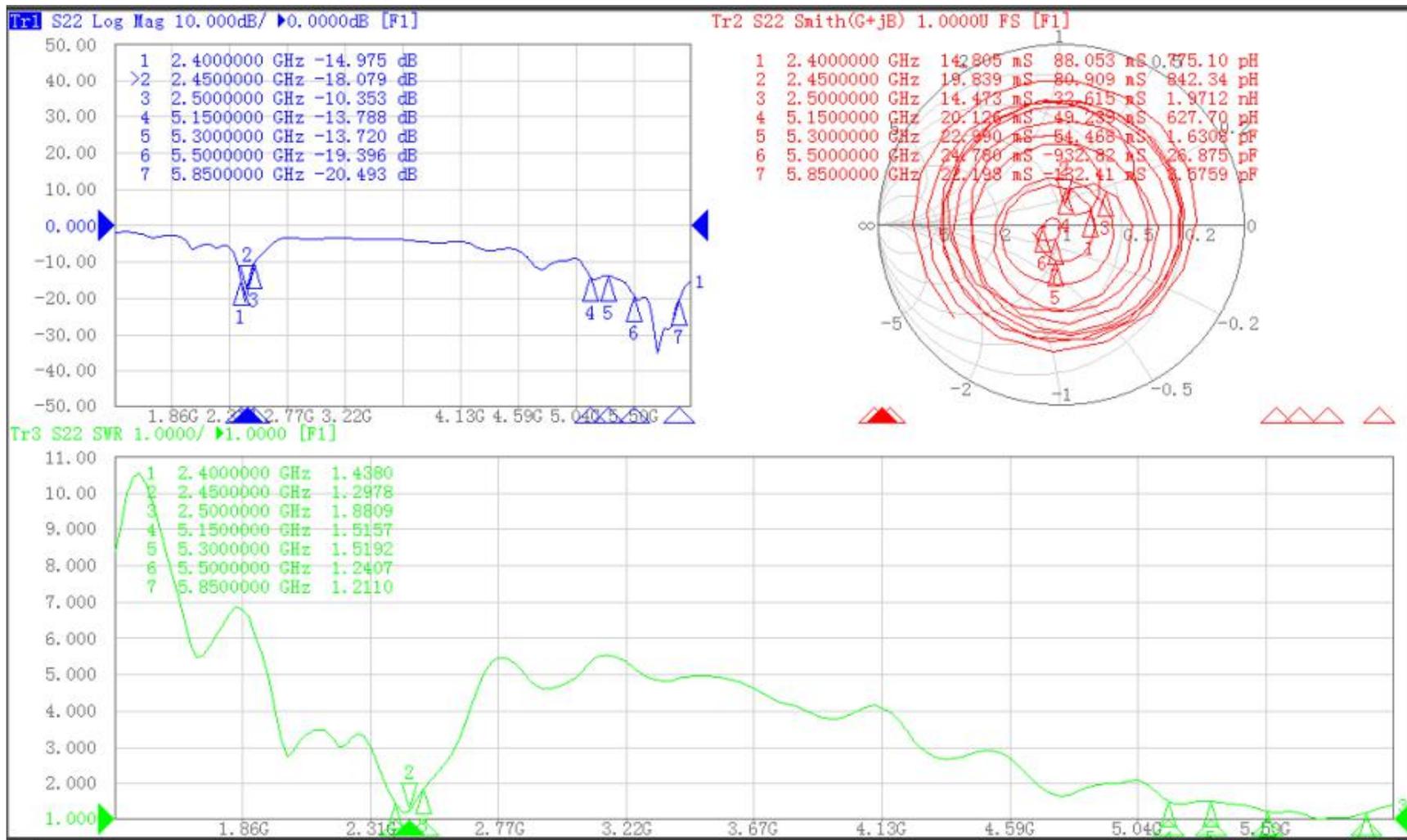


未改主板匹配

Line length 12.8cm



无源驻波图



2.4G无源3D测试数据

Passive Test For WIFI2.4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	45.18	-3.45	0.49	-1.66	22.983	22.198	0.49	-19.19	49.08	49.18
2410	44.86	-3.48	0.63	-1.52	23.036	21.819	0.63	-19.83	49.16	49.32
2420	46.79	-3.3	0.88	-1.27	24.176	22.609	0.88	-19.81	49.39	49.91
2430	47.97	-3.19	1.12	-1.03	24.997	22.973	1.12	-19.89	49.38	49.71
2440	49.27	-3.07	1.21	-0.94	25.902	23.369	1.21	-19.83	49.49	49.65
2450	51.82	-2.86	1.5	-0.65	27.666	24.154	1.5	-19.8	49.73	49.82
2460	52.44	-2.8	1.49	-0.66	28.395	24.048	1.49	-19.94	49.61	49.88
2470	51.99	-2.84	1.52	-0.63	28.683	23.306	1.52	-20.15	49.62	49.8
2480	54.14	-2.66	1.63	-0.52	30.4	23.739	1.63	-19.78	49.77	49.77
2490	57.28	-2.42	1.93	-0.22	32.838	24.444	1.93	-19.19	49.97	49.86
2500	54.78	-2.61	1.61	-0.54	32.027	22.751	1.61	-19.32	49.87	49.77

5.8G无源3D测试数据

Passive Test For WIFI5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	31.1	-5.07	-0.71	-2.86	16.341	14.755	-0.71	-20.18	59.23	59.32
5160	30.93	-5.1	-0.73	-2.88	16.164	14.766	-0.73	-20	59.75	60.14
5170	29.26	-5.34	-0.96	-3.11	15.304	13.961	-0.96	-20.34	59.41	59.7
5180	28.45	-5.46	-1.12	-3.27	14.833	13.618	-1.12	-19.61	59.2	59.59
5190	31.71	-4.99	-0.71	-2.86	16.497	15.215	-0.71	-17.96	59.54	59.91
5200	33.08	-4.8	-0.49	-2.64	17.159	15.919	-0.49	-16.71	59.75	59.82
5210	32.64	-4.86	-0.68	-2.83	16.879	15.761	-0.68	-15.96	59.32	59.84
5220	31.5	-5.02	-0.81	-2.96	16.318	15.186	-0.81	-15.6	59.13	59.04
5230	33.14	-4.8	-0.67	-2.82	17.099	16.037	-0.67	-15.06	59.31	59.64
5240	34.64	-4.6	-0.46	-2.61	17.871	16.773	-0.46	-15.34	59.7	59.95
5250	32.51	-4.88	-0.8	-2.95	16.825	15.686	-0.8	-15.69	59.69	59.84
5260	33.26	-4.78	-0.7	-2.85	17.187	16.077	-0.7	-15.53	59.48	60.07
5270	32.23	-4.92	-0.89	-3.04	16.73	15.505	-0.89	-16.25	59.3	59.61
5280	34.69	-4.6	-0.57	-2.72	18.005	16.689	-0.57	-15.77	59.6	60.25
5290	34.4	-4.63	-0.58	-2.73	17.898	16.503	-0.58	-16.17	59.91	60.34
5300	29.41	-5.31	-1.36	-3.51	15.335	14.078	-1.36	-17.38	59.53	60.19
5310	29.83	-5.25	-1.33	-3.48	15.524	14.301	-1.33	-17.27	59.46	60.15
5320	32.51	-4.88	-1.06	-3.21	17.043	15.471	-1.06	-17.53	59.52	59.97
5330	31.51	-5.02	-1.09	-3.24	16.544	14.962	-1.09	-18.06	59.73	60.36
5340	31.22	-5.05	-1.16	-3.31	16.486	14.739	-1.16	-18.3	59.8	60.25
5350	31.51	-5.02	-1.17	-3.32	16.644	14.868	-1.17	-18.84	59.76	60.42
5360	32.01	-4.95	-1.18	-3.33	17.052	14.956	-1.18	-18.71	59.7	59.99
5370	31.98	-4.95	-1.21	-3.36	16.972	15.01	-1.21	-19.15	59.72	60.58

5.8G无源3D测试数据

5380	30.29	-5.19	-1.41	-3.56	16.153	14.14	-1.41	-18.9	59.51	60.1
5390	28.33	-5.48	-1.69	-3.84	15.172	13.161	-1.69	-18.97	59.38	59.82
5400	36.73	-4.35	-0.68	-2.83	19.778	16.954	-0.68	-17.84	60.44	61.36
5410	37.21	-4.29	-0.57	-2.72	20.111	17.101	-0.57	-17.77	60.24	60.8
5420	36.59	-4.37	-0.64	-2.79	19.846	16.747	-0.64	-18.25	60.23	61.26
5430	34.09	-4.67	-1.03	-3.18	18.613	15.479	-1.03	-18.45	60.22	60.97
5440	36.57	-4.37	-0.71	-2.86	20.037	16.528	-0.71	-18.04	60.37	61.19
5450	35.07	-4.55	-0.81	-2.96	19.32	15.75	-0.81	-18.09	60.51	61.45
5460	35.3	-4.52	-0.79	-2.94	19.487	15.814	-0.79	-18.37	60.87	61.88
5470	34.42	-4.63	-0.74	-2.89	19.051	15.371	-0.74	-18.38	60.66	61.57
5480	35.9	-4.45	-0.54	-2.69	20.014	15.887	-0.54	-18.12	60.98	61.88
5490	35.63	-4.48	-0.55	-2.7	19.82	15.806	-0.55	-17.8	61.11	62.33
5500	35.03	-4.56	-0.52	-2.67	19.603	15.423	-0.52	-18	61.44	62.27
5510	34.61	-4.61	-0.54	-2.69	19.378	15.232	-0.54	-17.97	61.54	62.8
5520	34.11	-4.67	-0.59	-2.74	19.146	14.969	-0.59	-18.34	61.72	62.7
5530	32.82	-4.84	-0.7	-2.85	18.377	14.445	-0.7	-18.49	61.88	62.95
5540	33.36	-4.77	-0.65	-2.8	18.645	14.712	-0.65	-18.61	62.04	63.5
5550	32.21	-4.92	-0.8	-2.95	18.067	14.14	-0.8	-18.63	61.98	63.16
5560	31.61	-5	-1.05	-3.2	17.666	13.942	-1.05	-18.75	62.11	63.73
5570	30.89	-5.1	-0.83	-2.98	17.406	13.482	-0.83	-20.76	62.16	63.01
5580	31.07	-5.08	-0.99	-3.14	17.482	13.586	-0.99	-21.43	62.35	63.49
5590	28.53	-5.45	-1.43	-3.58	16.111	12.415	-1.43	-20.95	62.53	63.83
5600	25.92	-5.86	-1.89	-4.04	14.603	11.32	-1.89	-22.13	62.92	64.33
5610	27.17	-5.66	-1.67	-3.82	15.285	11.889	-1.67	-24.6	62.84	64.25
5620	25.99	-5.85	-1.82	-3.97	14.775	11.217	-1.82	-24.61	62.87	63.79
5630	26.69	-5.74	-1.79	-3.94	15.133	11.555	-1.79	-25.18	63.15	64.22

5.8G无源3D测试数据

5640	29.84	-5.25	-1.37	-3.52	16.921	12.916	-1.37	-24.78	63.59	64.34
5650	31.13	-5.07	-1.19	-3.34	17.647	13.481	-1.19	-29.04	63.38	64.34
5660	31.13	-5.07	-1.37	-3.52	17.736	13.389	-1.37	-26.68	63.42	64.49
5670	27.89	-5.55	-1.76	-3.91	15.952	11.935	-1.76	-28.03	63.11	63.92
5680	27.96	-5.53	-1.81	-3.96	15.934	12.026	-1.81	-27.14	63.31	64.3
5690	29.97	-5.23	-1.42	-3.57	17.133	12.84	-1.42	-25.85	63.22	63.86
5700	31.88	-4.97	-1.23	-3.38	18.242	13.635	-1.23	-24.85	63.02	64.08
5710	30.09	-5.22	-1.46	-3.61	17.167	12.918	-1.46	-25.72	62.58	63.49
5720	28.96	-5.38	-1.63	-3.78	16.512	12.451	-1.63	-24.13	62.59	63.56
5730	29.52	-5.3	-1.46	-3.61	16.786	12.732	-1.46	-23.64	62.88	63.59
5740	30.49	-5.16	-1.39	-3.54	17.349	13.139	-1.39	-24.06	63.09	63.87
5750	29.2	-5.35	-1.61	-3.76	16.589	12.61	-1.61	-21.86	62.83	63.8
5760	30.6	-5.14	-1.36	-3.51	17.43	13.169	-1.36	-20.56	62.8	63.82
5770	30.14	-5.21	-1.41	-3.56	17.095	13.04	-1.41	-20.7	62.98	64.11
5780	28.2	-5.5	-1.56	-3.71	15.966	12.239	-1.56	-20.37	62.92	63.62
5790	28.41	-5.47	-1.48	-3.63	16.068	12.338	-1.48	-19.91	62.92	63.84
5800	29.55	-5.29	-1.38	-3.53	16.673	12.879	-1.38	-19.22	63.07	64.05
5810	29.18	-5.35	-1.45	-3.6	16.33	12.852	-1.45	-19.26	63.5	64.19
5820	27.77	-5.56	-1.74	-3.89	15.512	12.257	-1.74	-19.88	63.34	64.21
5830	27.93	-5.54	-1.67	-3.82	15.628	12.307	-1.67	-19.21	63.7	64.5
5840	28.92	-5.39	-1.63	-3.78	16.104	12.816	-1.63	-20.11	63.88	64.88
5850	26.69	-5.74	-1.97	-4.12	14.842	11.847	-1.97	-20.01	63.98	64.9

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