



深圳星源创科技有限公司

Shen Zhen Xing Yuan Chuang Technology Co., Ltd

规格承认书 Approval Sheet

客户名称 Customer	Konkr	日期 Data	2023/02/22
产品名称 Product	WiFi antenna	客户机型 Models	AB05A
料号 P/N	Main:F713-14RB-237 Aux:F714-14RB-040	客户料号 Customer P/N	
规格描述 Specifications			

供应商承认签印 Vender Approved By	客户承认签印 Customer Approved By
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

版本 Version	修订内容 Revise The Content	修订人 Revused	核准 Approval	修订日期 Date	备注 Note

地址：深圳市宝安区福永镇福海街道塘尾股份商务大厦1506

Address:1506, Tangwei Business Building, Fuhai Street, Fuyong Town, Baoan District, Shenzhen

Tel: 0755-82103639 QQ: 487580356 Email: Stephdeng_Vis@126.com



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Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4GWiFi&Bloooh; 5GWiFi
Antenna From	PIFA
Impedance	50 Ω
Polarization	Linear
Peak Effi	42%@2.4G; 46%@5G
Max Peak Gain	1.45dBi@2.4G; 3.8dBi@5G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C ~+60°C
Storage Temp	-10°C ~+70°C
Humidity	10~95%RH

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WiFi Ant Test Information

Frequency	2. 4G (2402~2483) Mhz	5G (5150~5850) Mhz
Module information		

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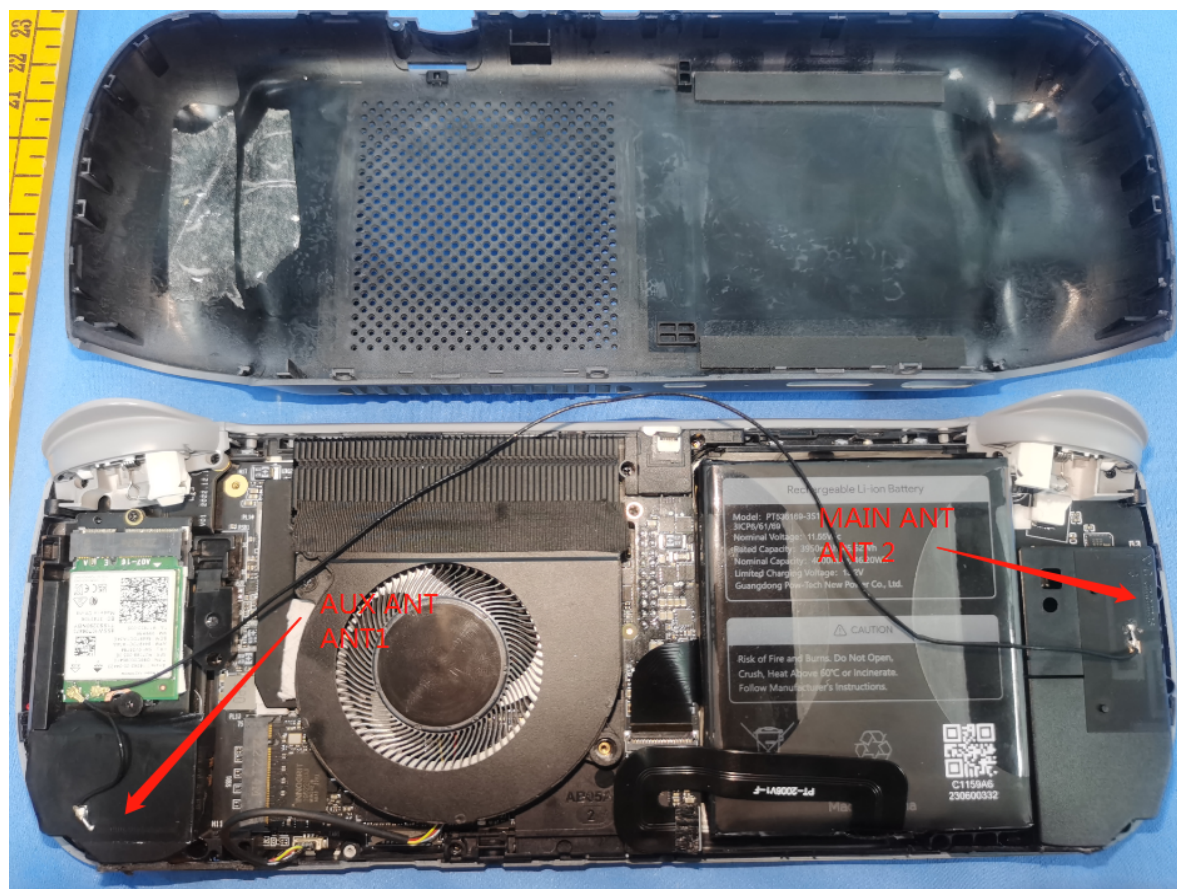
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Antenna Placement



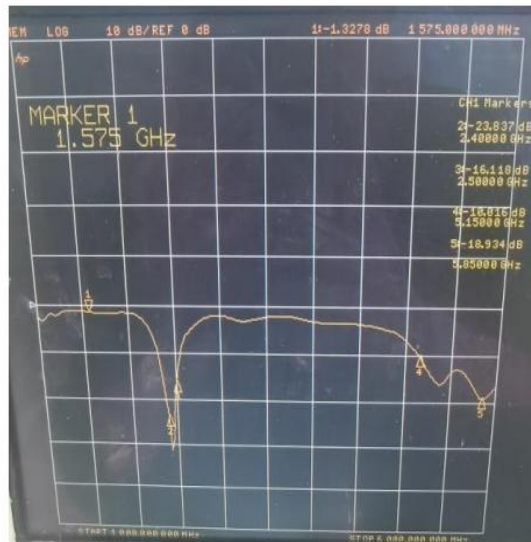
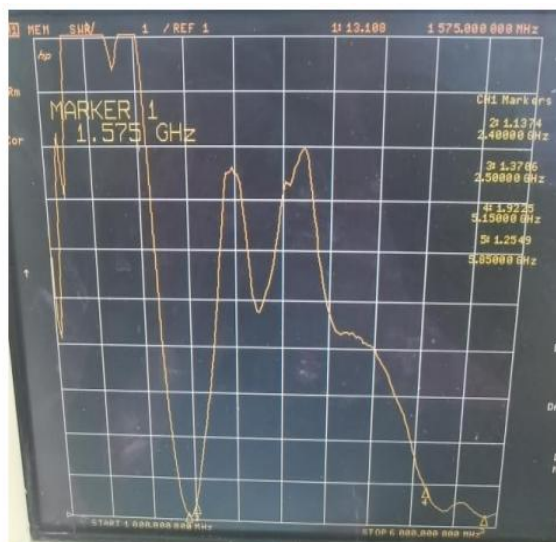
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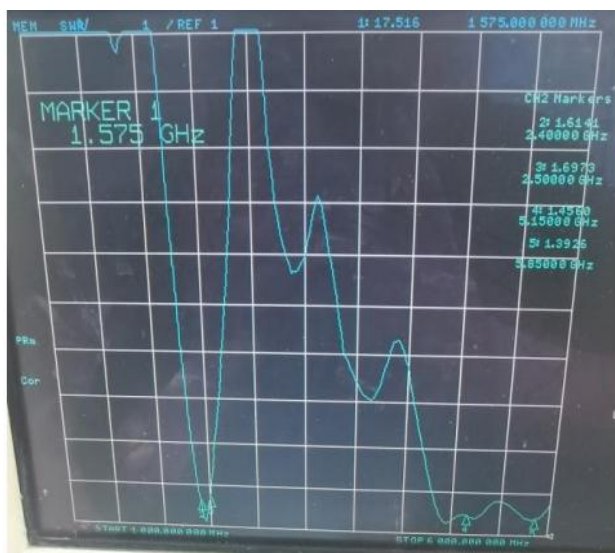
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Test Data

S11 Parameter-VSWR



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.13	1.37	1.92	1.25
Return Loss (DB)	-23.83	-16.11	-10.01	-18.93



Frequency (MHZ)	2400	2500	5150	5850
VSWR	1.61	1.69	1.45	1.39
Return Loss (DB)	-12.58	-11.75	-14.62	-15.69

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Efficiency Table (2.4G Ant1)

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	34.18	-4.66	0.3	-1.85	18.673	15.506	0.3	-14.81	4.96	0	45.78	46.01
2410	34.43	-4.63	0.38	-1.77	19.086	15.347	0.38	-14.15	5.01	0	46.01	46.29
2420	34.84	-4.58	0.38	-1.77	19.491	15.353	0.38	-13.62	4.96	0	45.73	46.01
2430	35.54	-4.49	0.49	-1.66	20.055	15.485	0.49	-13.93	4.99	0	46.01	46.36
2440	37.67	-4.24	0.64	-1.51	21.623	16.051	0.64	-14.55	4.88	0	46.12	46.48
2450	37.51	-4.26	0.48	-1.67	21.813	15.699	0.48	-16.15	4.74	0	46.12	46.54
2460	37.07	-4.31	0.52	-1.63	21.629	15.441	0.52	-17.59	4.83	0	46.14	46.52
2470	40.37	-3.94	1.06	-1.09	23.614	16.757	1.06	-18.21	5	0	46.4	46.8
2480	42.23	-3.74	1.45	-0.7	24.887	17.346	1.45	-19.65	5.2	0	46.26	46.64
2490	40.16	-3.96	1.28	-0.87	24.051	16.109	1.28	-21.07	5.24	0	46.51	46.91
2500	39.53	-4.03	1.27	-0.88	24.157	15.373	1.27	-21.43	5.31	0	46.47	46.86

Efficiency Table (2.4G Ant2)

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	25.33	-5.96	-1.36	-3.51	15.161	10.165	-1.36	-15.65	4.6	60	45.78	46.01
2410	27.06	-5.68	-0.7	-2.85	16.304	10.751	-0.7	-15.37	4.98	30	46.01	46.29
2420	29.26	-5.34	-0.39	-2.54	17.849	11.41	-0.39	-16.08	4.95	30	45.73	46.01
2430	29.89	-5.24	-0.39	-2.54	18.206	11.686	-0.39	-15.51	4.85	30	46.01	46.36
2440	32.37	-4.9	0.03	-2.12	19.605	12.762	0.03	-14.46	4.93	30	46.12	46.48
2450	34.01	-4.68	0.29	-1.86	20.759	13.254	0.29	-14.03	4.97	30	46.12	46.54
2460	32.98	-4.82	0.13	-2.02	20.176	12.805	0.13	-14.47	4.94	0	46.14	46.52
2470	34.44	-4.63	0.25	-1.9	21.103	13.34	0.25	-14.32	4.88	30	46.4	46.8
2480	36.11	-4.42	0.79	-1.36	21.937	14.175	0.79	-14.57	5.22	0	46.26	46.64
2490	33.97	-4.69	0.45	-1.7	20.531	13.434	0.45	-15.84	5.14	0	46.51	46.91
2500	31.65	-5	0.46	-1.69	19.199	12.449	0.46	-16.33	5.46	0	46.47	46.86

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Efficiency Table (5G Ant1)

Passive Test For VIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	29.79	-5.26	2.46	0.31	15.695	14.097	2.46	-18.14	7.72	30	49.82	49.4
5170	29.6	-5.29	2.46	0.31	15.566	14.036	2.46	-20	7.74	30	50.13	49.77
5190	31.77	-4.98	2.65	0.5	16.523	15.247	2.65	-20.39	7.63	30	50.42	49.95
5210	33.4	-4.76	2.92	0.77	17.008	16.387	2.92	-21	7.68	30	50.88	50.49
5230	34.97	-4.56	3.34	1.19	17.525	17.445	3.34	-22.17	7.91	90	50.42	50.08
5250	37.48	-4.26	3.8	1.65	18.56	18.92	3.8	-21.97	8.07	90	51.02	50.72
5270	40.35	-3.94	4.16	2.01	19.543	20.802	4.16	-23.21	8.11	90	50.85	50.6
5290	40.73	-3.9	4.29	2.14	19.409	21.319	4.29	-27.06	8.19	30	51.34	51.12
5310	39	-4.09	4.33	2.18	18.372	20.623	4.33	-25.83	8.42	30	50.44	50.36
5330	40.29	-3.95	4.54	2.39	18.904	21.383	4.54	-21.94	8.49	30	51.08	51.01
5350	42.12	-3.76	4.6	2.45	19.687	22.429	4.6	-20.25	8.35	30	51.02	51.01
5370	40.87	-3.89	4.36	2.21	19.249	21.623	4.36	-18.92	8.25	0	50.91	50.95
5390	37.03	-4.32	3.89	1.74	17.626	19.399	3.89	-16.58	8.2	90	50.46	50.43
5410	43.66	-3.6	4.54	2.39	20.918	22.738	4.54	-16.86	8.14	0	51.18	51.09
5430	40.69	-3.91	4.05	1.9	19.605	21.085	4.05	-19.47	7.96	90	50.69	50.7
5450	42.46	-3.72	4.11	1.96	20.567	21.893	4.11	-20.94	7.83	90	50.71	50.85
5470	41.32	-3.84	3.92	1.77	20.268	21.055	3.92	-17.84	7.76	30	50.93	50.83
5490	40.59	-3.92	3.76	1.61	20.107	20.485	3.76	-14.86	7.68	0	50.92	50.79
5510	42.8	-3.69	3.81	1.66	21.333	21.472	3.81	-17.41	7.49	90	51.18	51.16
5530	41.98	-3.77	3.53	1.38	20.993	20.984	3.53	-20.38	7.3	90	51.44	51.3
5550	45.93	-3.38	3.9	1.75	23.011	22.921	3.9	-17.53	7.28	90	51.89	51.76
5570	41.38	-3.83	3.29	1.14	20.895	20.483	3.29	-14.45	7.12	90	51.42	51.33
5590	42.35	-3.73	3.25	1.1	21.349	21.004	3.25	-14.62	6.98	90	51.71	51.76
5610	38.89	-4.1	3.01	0.86	19.532	19.356	3.01	-17.99	7.11	90	51.17	51.22
5630	41.59	-3.81	3.16	1.01	20.852	20.739	3.16	-17.02	6.97	90	51.78	51.77
5650	38.97	-4.09	2.74	0.59	19.585	19.39	2.74	-16.52	6.83	90	51.47	51.55
5670	39.29	-4.06	2.78	0.63	19.908	19.387	2.78	-16.86	6.83	90	52.12	52.28
5690	38.28	-4.17	2.72	0.57	19.39	18.889	2.72	-17.95	6.89	30	52.12	52.25
5710	36.97	-4.32	2.6	0.45	18.703	18.267	2.6	-20.19	6.92	30	51.95	52.05
5730	41.14	-3.86	3.04	0.89	20.817	20.327	3.04	-21.4	6.9	30	51.59	51.69
5750	36.45	-4.38	2.4	0.25	18.568	17.883	2.4	-21.99	6.78	30	51.12	51.15
5770	39.47	-4.04	2.74	0.59	20.15	19.319	2.74	-19.74	6.78	0	51.02	51.06
5790	35.48	-4.5	2.33	0.18	18.073	17.403	2.33	-16.91	6.83	30	51.08	51.16
5810	37.81	-4.22	2.7	0.55	19.161	18.646	2.7	-16.19	6.93	30	51.36	51.43
5830	37.41	-4.27	2.44	0.29	19.066	18.341	2.44	-15.15	6.71	0	51.65	51.66
5850	38.25	-4.17	2.36	0.21	19.504	18.749	2.36	-16.51	6.54	60	51.88	52.05

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Efficiency Table (5G Ant2)

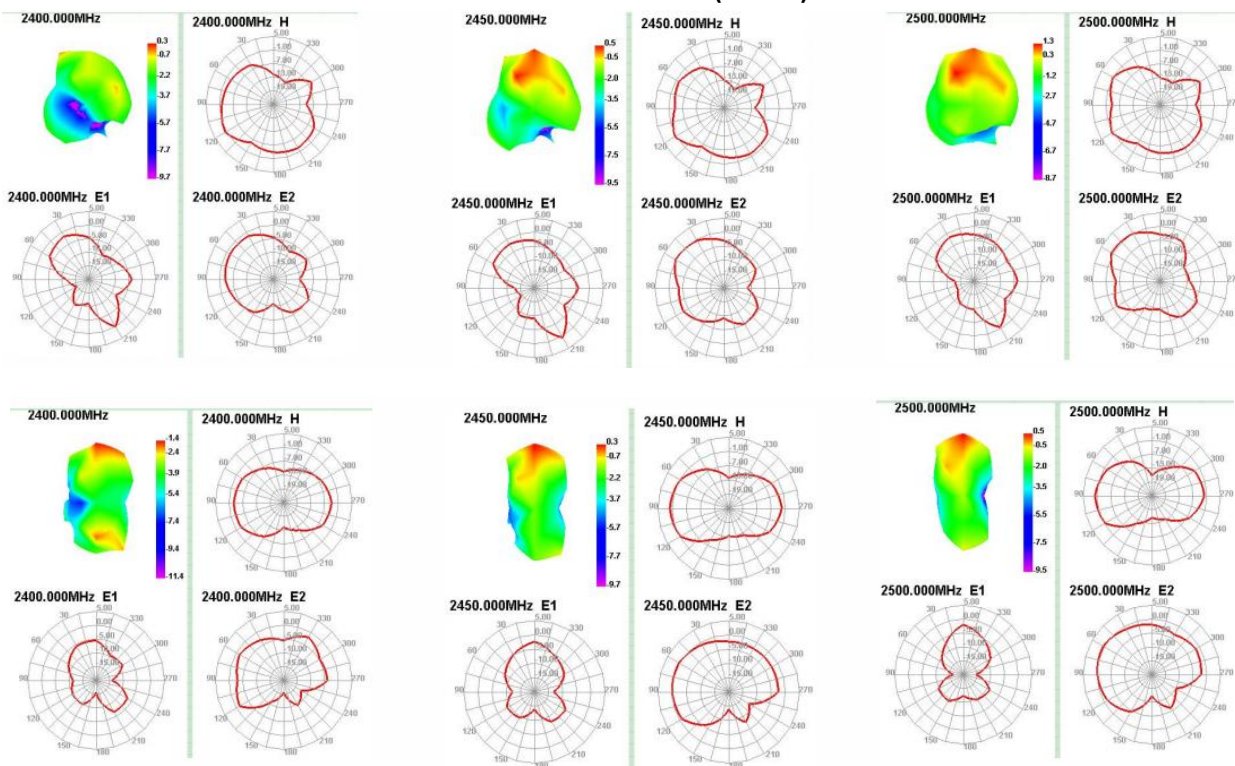
Passive Test For WIFI5G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5150	22.71	-6.44	-0.34	-2.49	11.978	10.734	-0.34	-14.98	6.09	0	49.82	49.4
5170	22.35	-6.51	-0.06	-2.21	11.972	10.381	-0.06	-14.35	6.44	0	50.13	49.77
5190	24.62	-6.09	0.48	-1.67	13.384	11.237	0.48	-13.78	6.57	0	50.42	49.95
5210	25.51	-5.93	0.48	-1.67	14.004	11.504	0.48	-14.79	6.42	0	50.88	50.49
5230	28.05	-5.52	0.68	-1.47	15.55	12.497	0.68	-14.64	6.2	0	50.42	50.08
5250	29.01	-5.37	0.77	-1.38	16.218	12.792	0.77	-14.05	6.14	0	51.02	50.72
5270	33.12	-4.8	1.44	-0.71	18.618	14.504	1.44	-12.95	6.24	0	50.85	50.6
5290	33	-4.82	1.15	-1	18.315	14.681	1.15	-13.99	5.97	0	51.34	51.12
5310	33.56	-4.74	1.17	-0.98	18.305	15.257	1.17	-14.11	5.92	30	50.44	50.36
5330	34.99	-4.56	1.65	-0.5	18.816	16.179	1.65	-14.67	6.21	30	51.08	51.01
5350	38.14	-4.19	2.04	-0.11	20.29	17.85	2.04	-14.66	6.23	30	51.02	51.01
5370	38.35	-4.16	2.16	0.01	20.061	18.284	2.16	-15.47	6.32	30	50.91	50.95
5390	35.52	-4.5	1.97	-0.18	18.319	17.201	1.97	-16.09	6.47	30	50.46	50.43
5410	43.17	-3.65	3	0.85	22.02	21.151	3	-14.98	6.65	30	51.18	51.09
5430	38.92	-4.1	2.58	0.43	19.643	19.279	2.58	-16.56	6.68	30	50.69	50.7
5450	42.71	-3.69	2.99	0.84	21.282	21.429	2.99	-17.04	6.68	30	50.71	50.85
5470	40.51	-3.92	2.93	0.78	19.993	20.516	2.93	-17.57	6.85	30	50.93	50.83
5490	42.07	-3.76	3.16	1.01	20.363	21.708	3.16	-21.76	6.92	30	50.92	50.79
5510	43.08	-3.66	3.08	0.93	20.522	22.56	3.08	-23.63	6.73	30	51.18	51.16
5530	43.9	-3.58	3.08	0.93	20.738	23.158	3.08	-26.18	6.66	30	51.44	51.3
5550	46.62	-3.31	3.35	1.2	21.919	24.7	3.35	-22.66	6.66	30	51.89	51.76
5570	43.17	-3.65	2.92	0.77	19.945	23.221	2.92	-18.15	6.56	30	51.42	51.33
5590	44.16	-3.55	2.95	0.8	20.165	23.993	2.95	-15.29	6.5	30	51.71	51.76
5610	41.21	-3.85	2.39	0.24	18.925	22.282	2.39	-18.24	6.24	0	51.17	51.22
5630	43.87	-3.58	2.53	0.38	20.276	23.598	2.53	-17.67	6.1	0	51.78	51.77
5650	42.16	-3.75	2.43	0.28	19.236	22.928	2.43	-16.13	6.18	0	51.47	51.55
5670	41.23	-3.85	2.46	0.31	18.591	22.635	2.46	-18.72	6.31	0	52.12	52.28
5690	41.8	-3.79	2.06	-0.09	18.902	22.901	2.06	-19.42	5.85	0	52.12	52.25
5710	38.55	-4.14	1.49	-0.66	17.519	21.027	1.49	-17.4	5.63	0	51.95	52.05
5730	45.64	-3.41	2.24	0.09	20.779	24.861	2.24	-15.33	5.65	0	51.59	51.69
5750	39.01	-4.09	1.36	-0.79	17.646	21.369	1.36	-16.58	5.45	0	51.12	51.15
5770	42.98	-3.67	1.56	-0.59	19.504	23.473	1.56	-17.51	5.22	0	51.02	51.06
5790	38.36	-4.16	0.98	-1.17	17.628	20.732	0.98	-16.62	5.14	30	51.08	51.16
5810	42.55	-3.71	1.43	-0.72	19.659	22.888	1.43	-15.13	5.14	90	51.36	51.43
5830	41.07	-3.86	1.03	-1.12	18.958	22.116	1.03	-14.06	4.89	90	51.65	51.66
5850	43.66	-3.6	0.9	-1.25	20.174	23.487	0.9	-15.17	4.5	90	51.88	52.05

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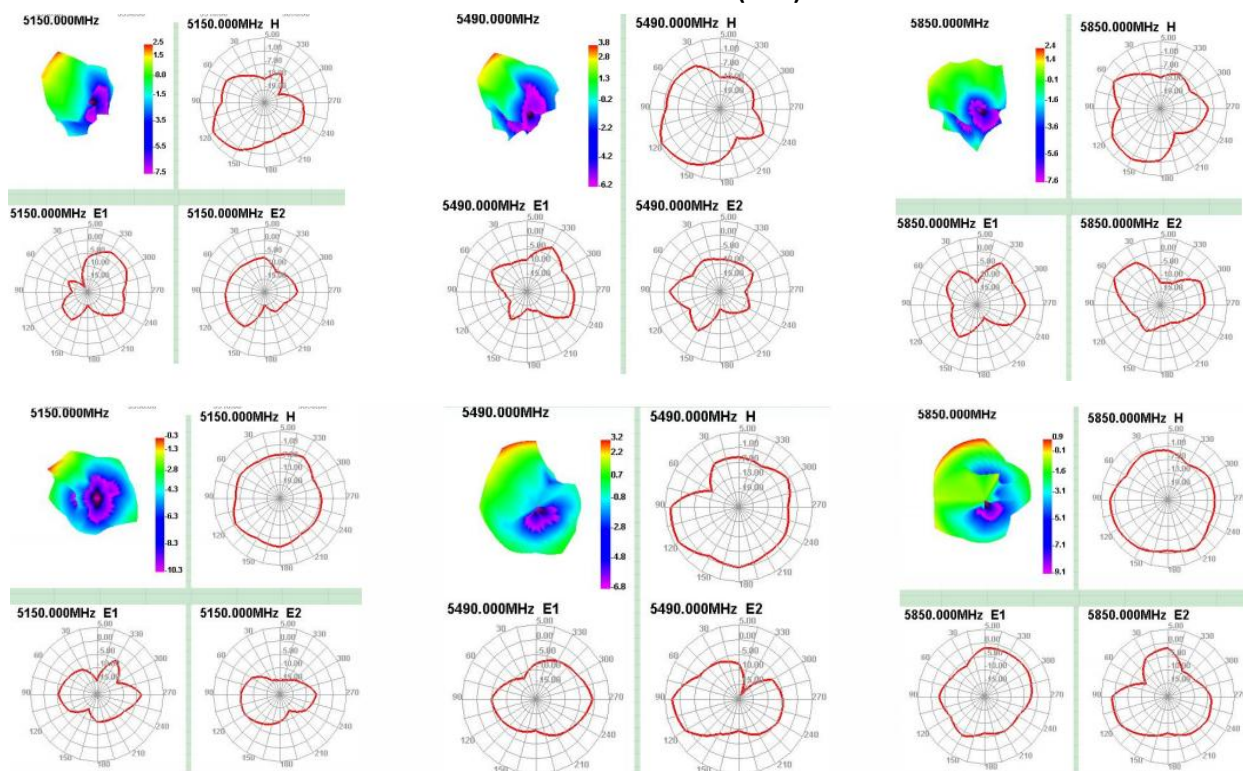
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Radiation Pattern(2.4G)



Radiation Pattern(5G)



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WiFi Active Test Data

802.11b	Frequency	TRP		TIS	
	2412	CH1 11Mbps	11.44	CH1 11Mbps	-77.44
	2437	CH6 11Mbps	11.42	CH6 11Mbps	-77.39
	2467	CH11 11Mbps	11.22	CH11 11Mbps	-77.79
802.11a		TRP		TIS	
	5180	CH36 6Mbps	11.52	CH36 54Mbps	-65.34
	5300	CH60 6Mbps	11.39	CH60 54Mbps	-65.45
	5805	CH161 6Mbps	11.26	CH161 54Mbps	-67.18

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Throughput Test(2.4G)

	420 7.0- 8.0 sec 11.0 MBytes 143 Mbits/sec ID Interval Transfer Bandwidth 420 8.0- 9.0 sec 12.4 MBytes 164 Mbits/sec ID Interval Transfer Bandwidth 420 9.0-10.0 sec 8.53 MBytes 71.6 Mbits/sec ID Interval Transfer Bandwidth 420 10.0-11.0 sec 10.4 MBytes 87.1 Mbits/sec ID Interval Transfer Bandwidth 420 11.0-12.0 sec 6.63 MBytes 55.6 Mbits/sec ID Interval Transfer Bandwidth 420 12.0-13.0 sec 11.6 MBytes 97.5 Mbits/sec ID Interval Transfer Bandwidth 420 13.0-14.0 sec 12.9 MBytes 108 Mbits/sec ID Interval Transfer Bandwidth 420 14.0-15.0 sec 14.0 MBytes 118 Mbits/sec ID Interval Transfer Bandwidth 420 15.0-16.0 sec 14.6 MBytes 123 Mbits/sec ID Interval Transfer Bandwidth 420 16.0-17.0 sec 13.8 MBytes 116 Mbits/sec ID Interval Transfer Bandwidth 420 17.0-18.0 sec 13.0 MBytes 114 Mbits/sec ID Interval Transfer Bandwidth 420 18.0-19.0 sec 14.4 MBytes 121 Mbits/sec ID Interval Transfer Bandwidth 420 19.0-20.0 sec 13.4 MBytes 113 Mbits/sec ID Interval Transfer Bandwidth 420 0.0-20.0 sec 274 MBytes 115 Mbits/sec		332 7.0- 8.0 sec 22.4 MBytes 188 Mbits/sec ID Interval Transfer Bandwidth 332 8.0- 9.0 sec 28.1 MBytes 236 Mbits/sec ID Interval Transfer Bandwidth 332 9.0-10.0 sec 29.9 MBytes 251 Mbits/sec ID Interval Transfer Bandwidth 332 10.0-11.0 sec 29.6 MBytes 248 Mbits/sec ID Interval Transfer Bandwidth 332 11.0-12.0 sec 26.0 MBytes 218 Mbits/sec ID Interval Transfer Bandwidth 332 12.0-13.0 sec 18.0 MBytes 151 Mbits/sec ID Interval Transfer Bandwidth 332 13.0-14.0 sec 19.3 MBytes 162 Mbits/sec ID Interval Transfer Bandwidth 332 14.0-15.0 sec 19.9 MBytes 167 Mbits/sec ID Interval Transfer Bandwidth 332 15.0-16.0 sec 15.9 MBytes 133 Mbits/sec ID Interval Transfer Bandwidth 332 16.0-17.0 sec 16.7 MBytes 140 Mbits/sec ID Interval Transfer Bandwidth 332 17.0-18.0 sec 15.9 MBytes 133 Mbits/sec ID Interval Transfer Bandwidth 332 18.0-19.0 sec 19.6 MBytes 164 Mbits/sec ID Interval Transfer Bandwidth 332 19.0-20.0 sec 20.7 MBytes 174 Mbits/sec ID Interval Transfer Bandwidth 332 0.0-20.0 sec 469 MBytes 197 Mbits/sec

Throughput Test(5G)

	372 7.0- 8.0 sec 72.8 MBytes 610 Mbits/sec ID Interval Transfer Bandwidth 372 8.0- 9.0 sec 72.8 MBytes 610 Mbits/sec ID Interval Transfer Bandwidth 372 9.0-10.0 sec 71.9 MBytes 603 Mbits/sec ID Interval Transfer Bandwidth 372 10.0-11.0 sec 73.6 MBytes 618 Mbits/sec ID Interval Transfer Bandwidth 372 11.0-12.0 sec 73.9 MBytes 620 Mbits/sec ID Interval Transfer Bandwidth 372 12.0-13.0 sec 74.1 MBytes 621 Mbits/sec ID Interval Transfer Bandwidth 372 13.0-14.0 sec 74.2 MBytes 623 Mbits/sec ID Interval Transfer Bandwidth 372 14.0-15.0 sec 74.6 MBytes 626 Mbits/sec ID Interval Transfer Bandwidth 372 15.0-16.0 sec 74.2 MBytes 622 Mbits/sec ID Interval Transfer Bandwidth 372 16.0-17.0 sec 74.8 MBytes 627 Mbits/sec ID Interval Transfer Bandwidth 372 17.0-18.0 sec 74.8 MBytes 627 Mbits/sec ID Interval Transfer Bandwidth 372 18.0-19.0 sec 73.9 MBytes 620 Mbits/sec ID Interval Transfer Bandwidth 372 19.0-20.0 sec 73.6 MBytes 618 Mbits/sec ID Interval Transfer Bandwidth 372 0.0-20.0 sec 1.43 GBytes 616 Mbits/sec		332 7.0- 8.0 sec 63.2 MBytes 530 Mbits/sec ID Interval Transfer Bandwidth 332 8.0- 9.0 sec 64.3 MBytes 539 Mbits/sec ID Interval Transfer Bandwidth 332 9.0-10.0 sec 63.2 MBytes 530 Mbits/sec ID Interval Transfer Bandwidth 332 10.0-11.0 sec 64.7 MBytes 542 Mbits/sec ID Interval Transfer Bandwidth 332 11.0-12.0 sec 64.1 MBytes 538 Mbits/sec ID Interval Transfer Bandwidth 332 12.0-13.0 sec 63.3 MBytes 531 Mbits/sec ID Interval Transfer Bandwidth 332 13.0-14.0 sec 61.7 MBytes 518 Mbits/sec ID Interval Transfer Bandwidth 332 14.0-15.0 sec 63.2 MBytes 530 Mbits/sec ID Interval Transfer Bandwidth 332 15.0-16.0 sec 62.7 MBytes 526 Mbits/sec ID Interval Transfer Bandwidth 332 16.0-17.0 sec 62.6 MBytes 525 Mbits/sec ID Interval Transfer Bandwidth 332 17.0-18.0 sec 62.7 MBytes 526 Mbits/sec ID Interval Transfer Bandwidth 332 18.0-19.0 sec 62.6 MBytes 525 Mbits/sec ID Interval Transfer Bandwidth 332 19.0-20.0 sec 62.3 MBytes 522 Mbits/sec ID Interval Transfer Bandwidth 332 0.0-20.0 sec 1.24 GBytes 531 Mbits/sec

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