

Antenna Test Report

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Antenna Solutions



Shenzhen Qinxin Technology Co., Ltd.



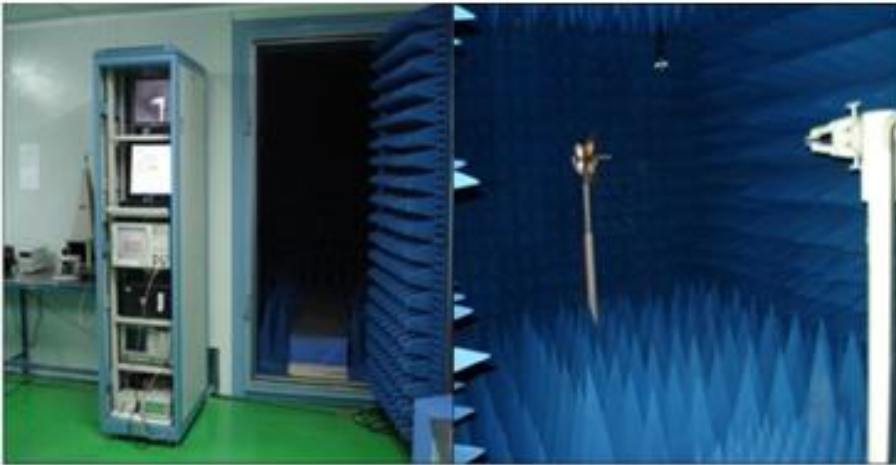
Project description

- **Material number: S200T**
- **Antenna fre.: wifi-2.4G+5G**



test environment

- The antenna characteristics use the ETS test system microwave anechoic chamber, the size of the microwave anechoic chamber is 7m x 4m x 3m, and the test frequency is 700MHz---6GHz.
- S11 testing using Agilent E5071B network analyzer

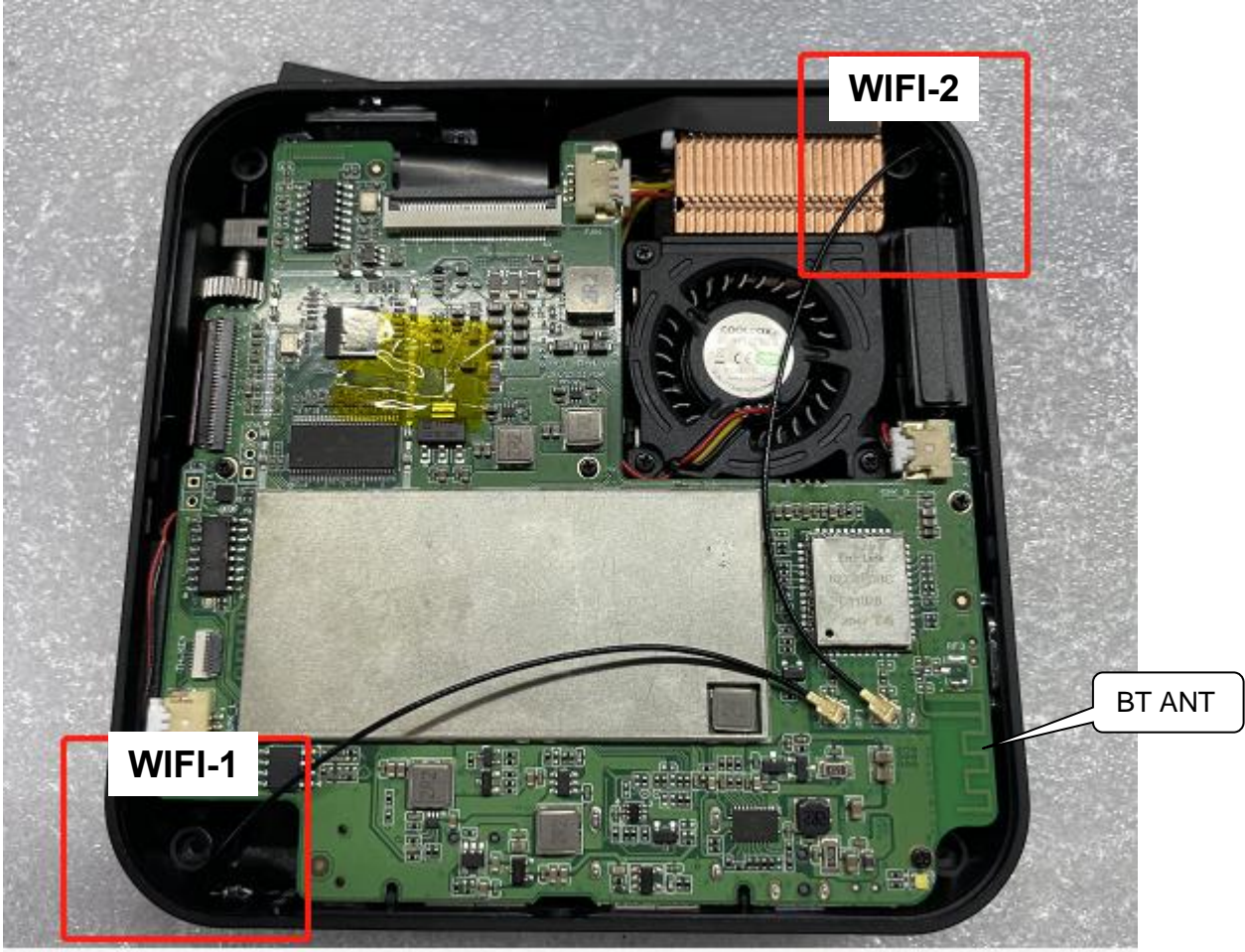


anechoic chamber



Agilent E5071B Network Analyzer

Antenna position



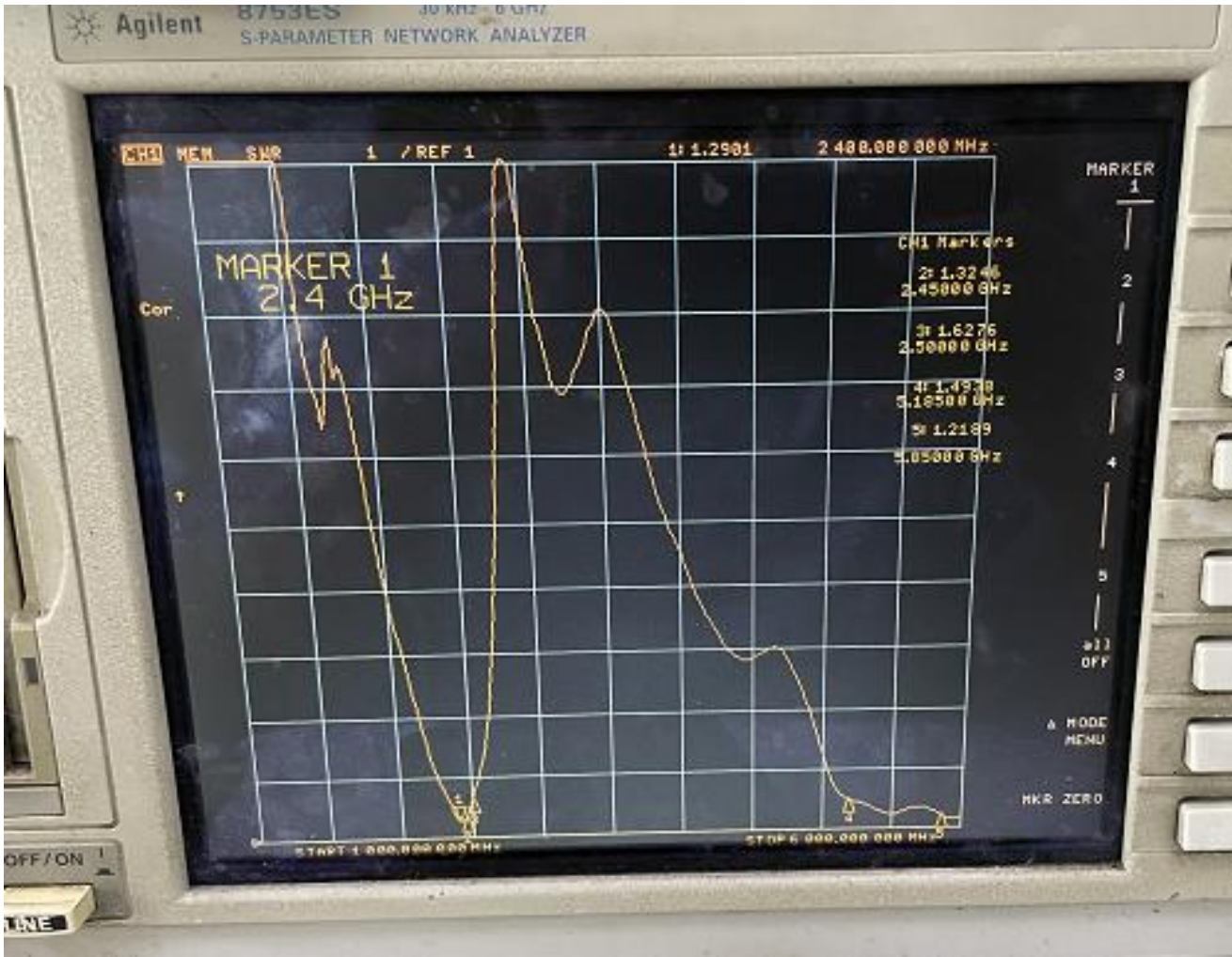
3D test data of antenna anechoic chamber

Test Condition:		free space			
WIFI-2.4G	2.4G 802.11B	Channel	1	6	13
		TRP	15.03	16.42	16.34
		TIS	-80.8	-77.85	-81.7

Test Condition:		free space			
WIFI-5G	5.8G 802.11A	Channel	149	157	165
		TRP	13.69	14.28	14.63
		TIS	-72.27	-72.92	-72.73

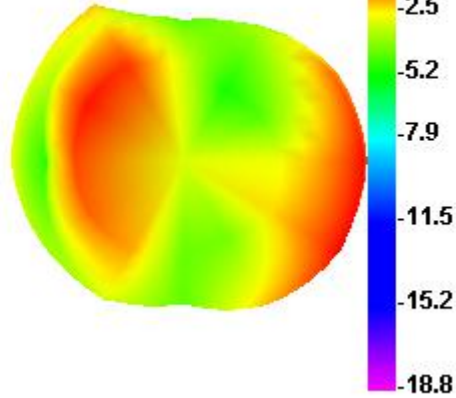


wifi-RF1 2.4G+5G

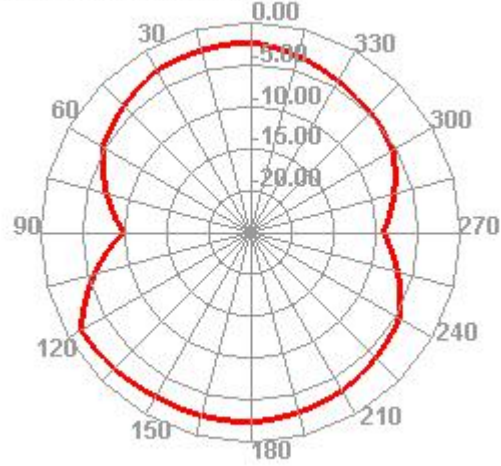


Passive Test For WII2.4			
Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	47.96	-3.19	1.33
2410	48.3	-3.16	1.13
2420	46.78	-3.3	0.76
2430	46.38	-3.34	0.58
2440	44.33	-3.53	0.38
2450	43.33	-3.63	0.27
2460	44.57	-3.51	0.28
2470	42.66	-3.7	-0.09
2480	40.77	-3.9	-0.46
2490	39.81	-4	-0.68
2500	40.29	-3.95	-0.66

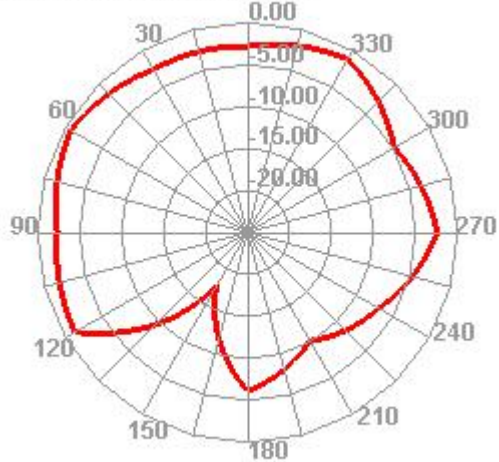
2400.000MHz



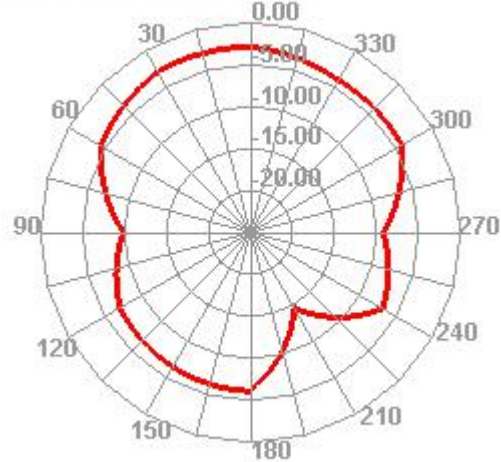
2400.000MHz H



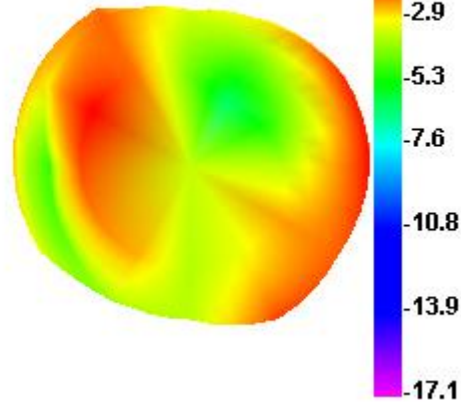
2400.000MHz E1



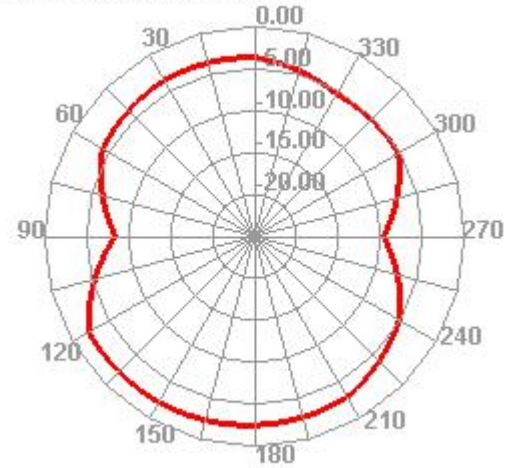
2400.000MHz E2



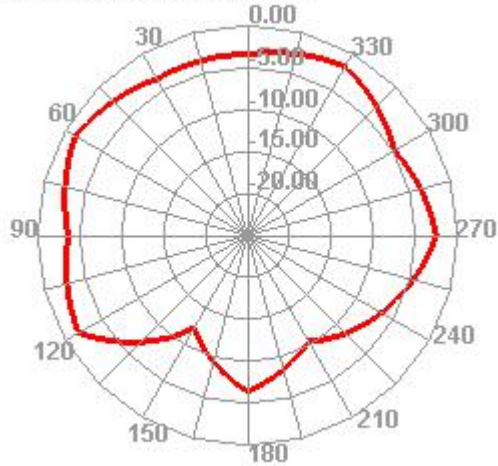
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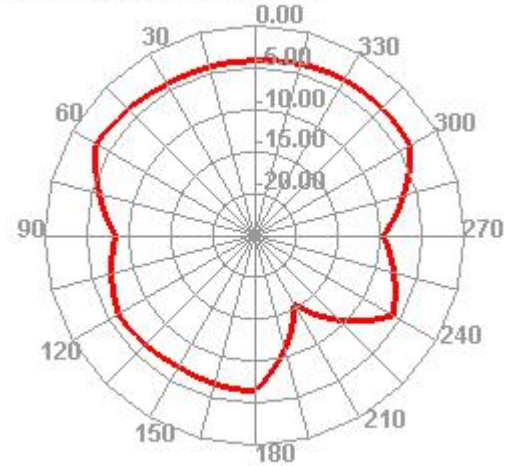
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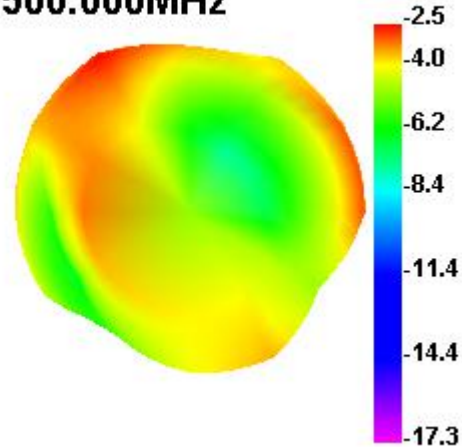
2450.000MHz E1



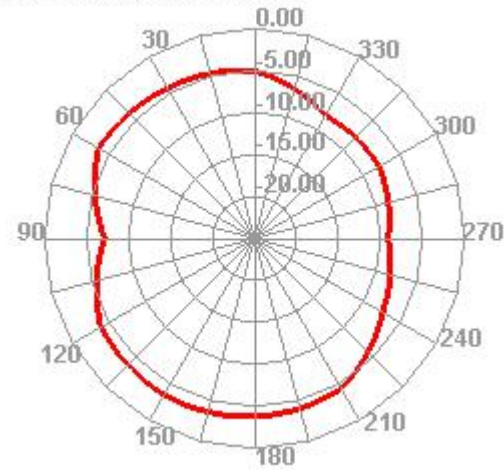
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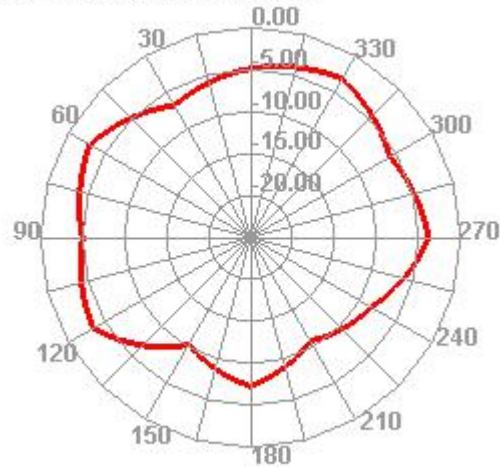
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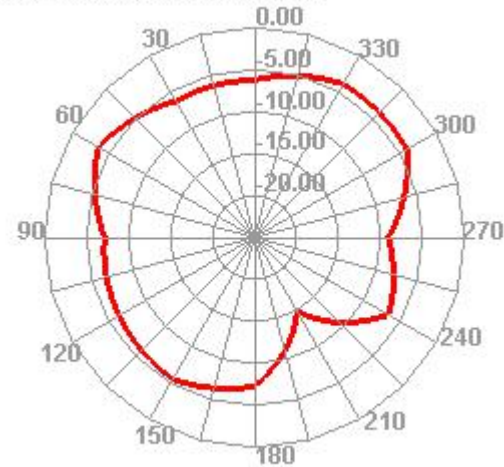
2500.000MHz H



2500.000MHz E1



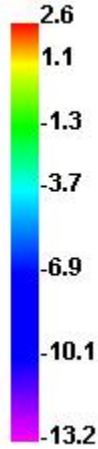
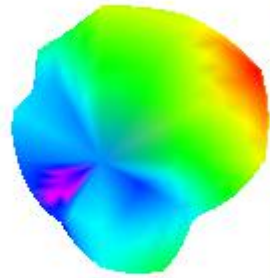
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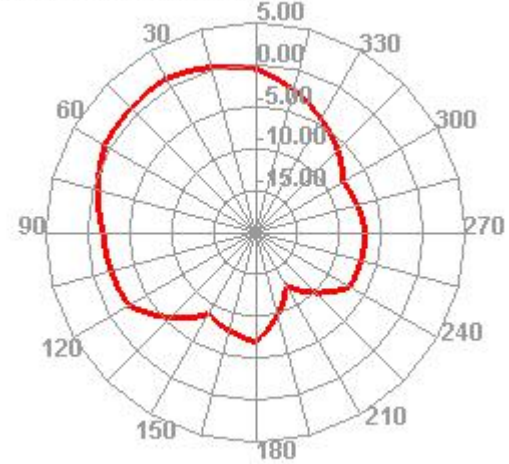
5GWiFi				WIFI-1							
Passive Test For 5GWIFI											
Freq	Effi	Effi	Gain	Freq	Effi	Effi	Gain	Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)
5150	58.77	-2.31	2.64	5390	57.49	-2.4	3.36	5630	53.98	-2.68	1.94
5160	55.1	-2.59	2.38	5400	66.63	-1.76	4.04	5640	55.43	-2.56	2.13
5170	54.11	-2.67	2.31	5410	61.02	-2.15	3.56	5650	59.25	-2.27	2.29
5180	51.54	-2.88	2.13	5420	68.4	-1.65	3.99	5660	59.32	-2.27	2.44
5190	50.46	-2.97	2.21	5430	66.72	-1.76	3.81	5670	62.3	-2.06	2.67
5200	58.34	-2.34	2.85	5440	67.91	-1.68	3.74	5680	56.23	-2.5	2.41
5210	60.61	-2.17	3.05	5450	65.5	-1.84	3.49	5690	57	-2.44	2.54
5220	59.94	-2.22	2.86	5460	59.17	-2.28	2.95	5700	57.4	-2.41	2.49
5230	59.07	-2.29	2.84	5470	63.55	-1.97	3.07	5710	58.51	-2.33	2.8
5240	57.05	-2.44	2.75	5480	61.35	-2.12	2.88	5720	62.71	-2.03	3.06
5250	59.67	-2.24	3.03	5490	67.1	-1.73	3.07	5730	60.83	-2.16	2.97
5260	60.81	-2.16	2.99	5500	64.2	-1.92	2.8	5740	62.05	-2.07	3.2
5270	66.04	-1.8	3.46	5510	57.01	-2.44	2.12	5750	58.56	-2.32	2.93
5280	60.83	-2.16	3.09	5520	62.2	-2.06	2.39	5760	58.22	-2.35	2.88
5290	58.59	-2.32	3.02	5530	56.2	-2.5	1.97	5770	62.41	-2.05	3.21
5300	57.86	-2.38	2.9	5540	64.22	-1.92	2.49	5780	58.95	-2.29	3.04
5310	55.84	-2.53	2.74	5550	65.29	-1.85	2.52	5790	61.18	-2.13	3.1
5320	70.87	-1.5	3.95	5560	58.15	-2.35	2.12	5800	57.17	-2.43	2.78
5330	63.14	-2	3.53	5570	61.62	-2.1	2.23	5810	56.69	-2.46	2.67
5340	59.6	-2.25	3.34	5580	55.01	-2.6	1.76	5820	60.27	-2.2	3.13
5350	60.74	-2.17	3.61	5590	58.35	-2.34	1.98	5830	61.16	-2.14	3.1
5360	56.22	-2.5	3.24	5600	61.8	-2.09	2.26	5840	64.12	-1.93	3.31
5370	67.39	-1.71	4.09	5610	56.33	-2.49	2.02	5850	57.89	-2.37	2.91
5380	64.24	-1.92	3.84	5620	60.83	-2.16	2.37				



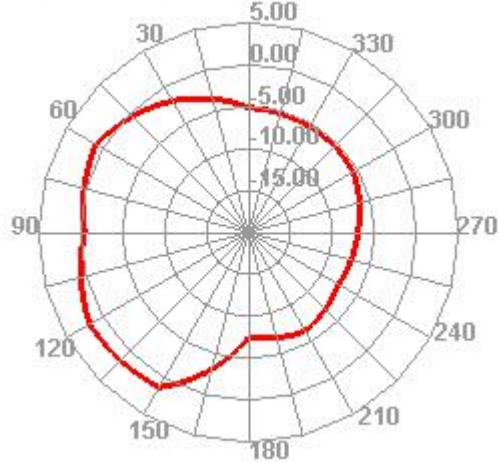
5150.000MHz



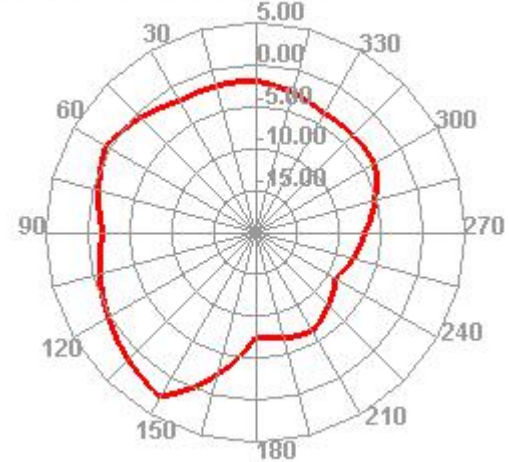
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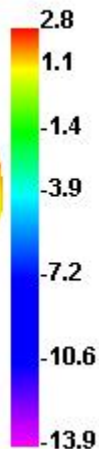
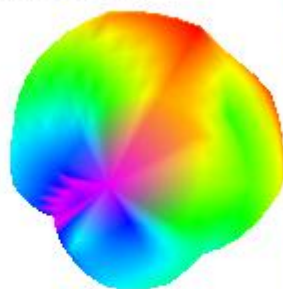
5150.000MHz E1



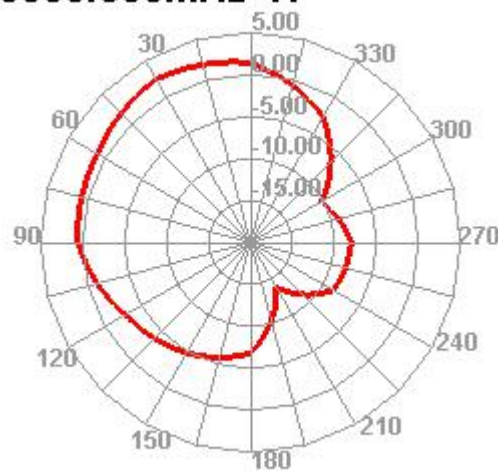
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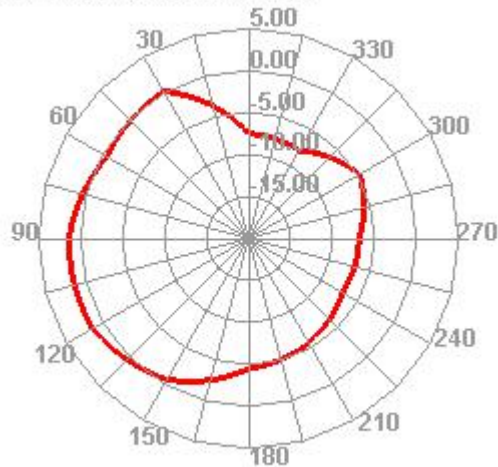
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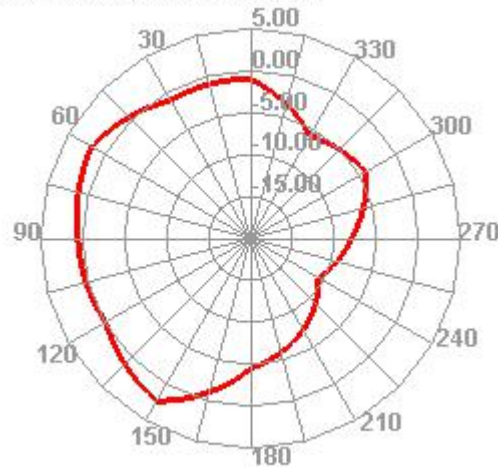
5500.000MHz H



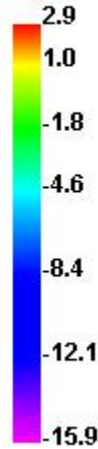
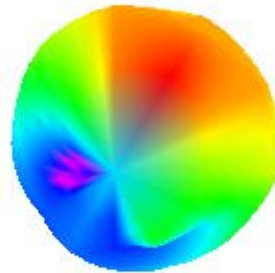
5500.000MHz E1



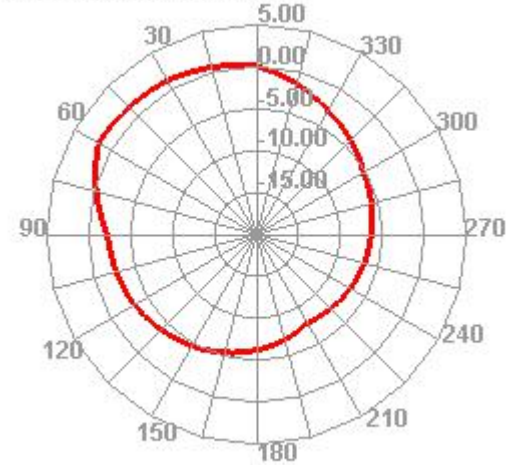
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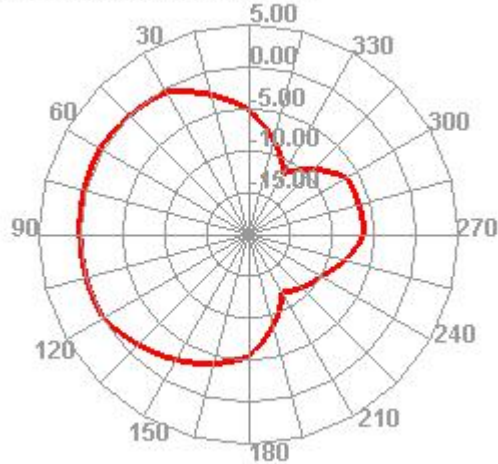
5850.000MHz



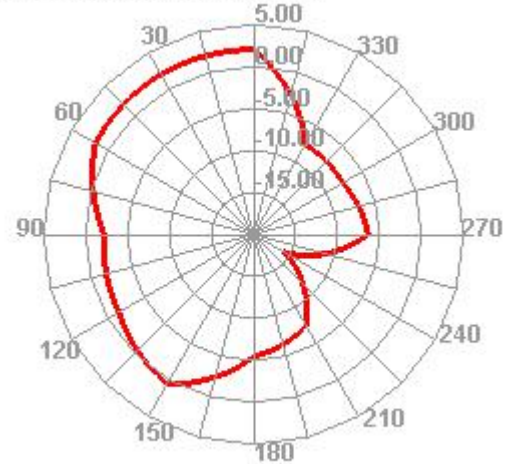
5850.000MHz H



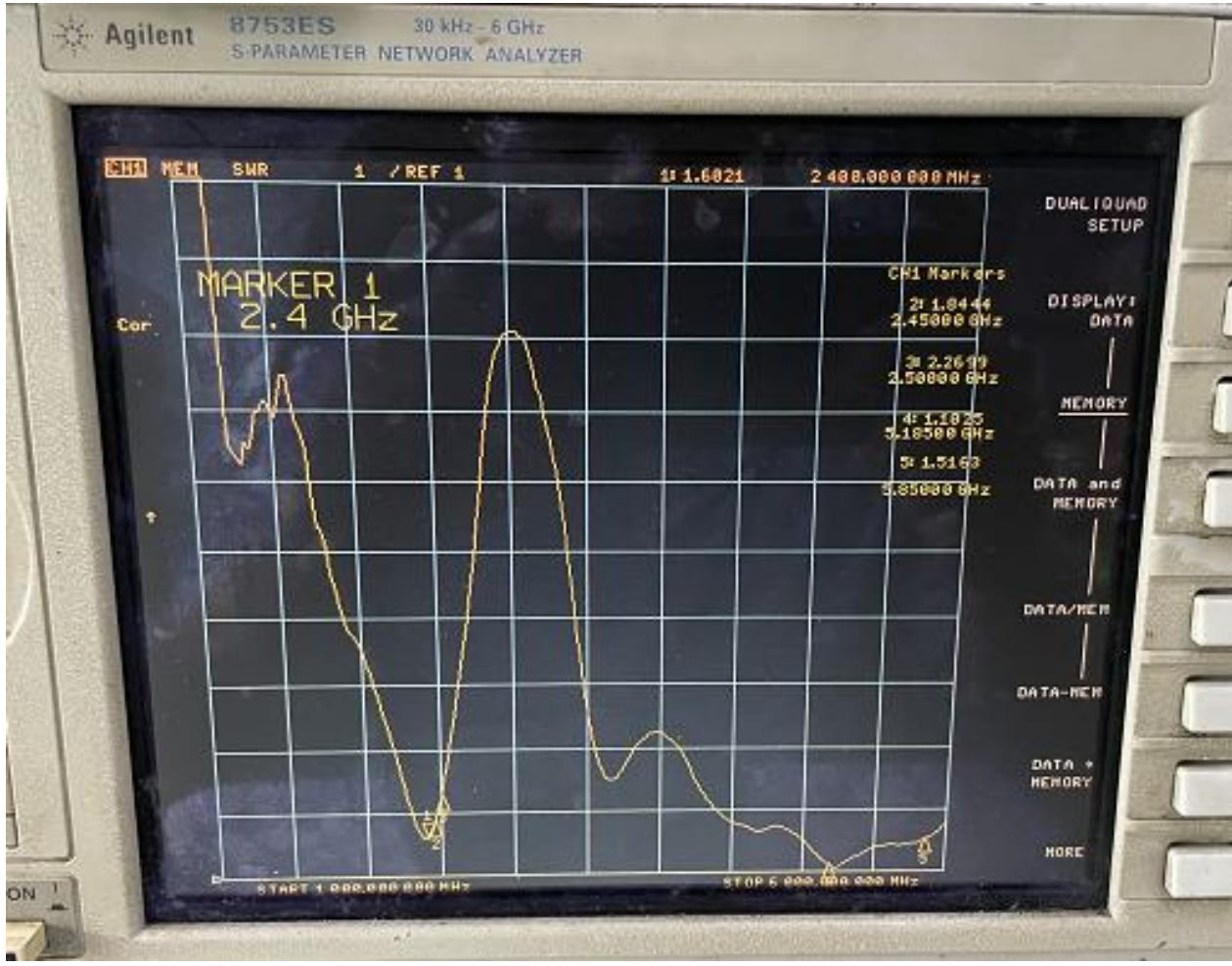
5850.000MHz E1



5850.000MHz E2

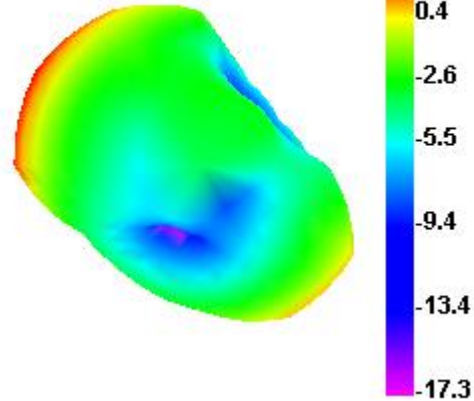


wifi-2 2.4G+5G

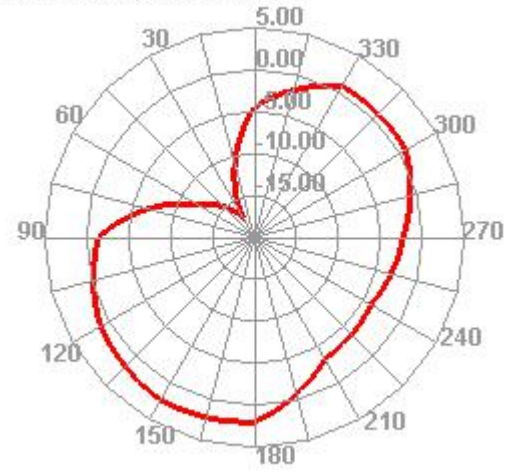


Passive Test For WII2.4			
Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	53.07	-2.75	2.05
2410	51.73	-2.86	1.94
2420	50.97	-2.93	1.84
2430	52.49	-2.8	2.05
2440	55.94	-2.52	2.35
2450	54.22	-2.66	2.1
2460	53.75	-2.7	1.93
2470	51.75	-2.86	1.68
2480	51.43	-2.89	1.93
2490	52.46	-2.8	2.31
2500	51.38	-2.89	2.47

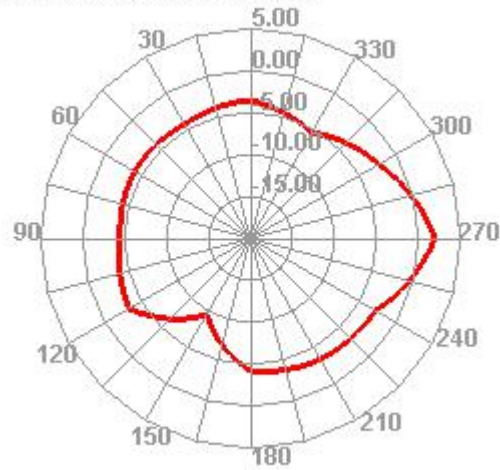
2400.000MHz



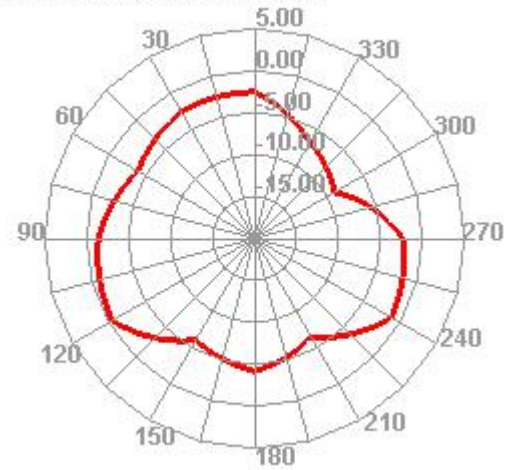
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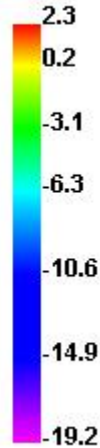
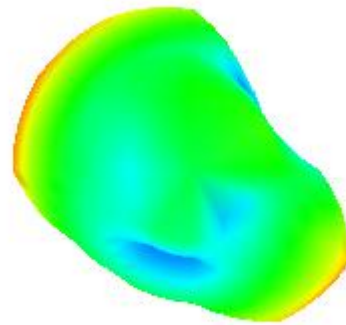
2400.000MHz E1



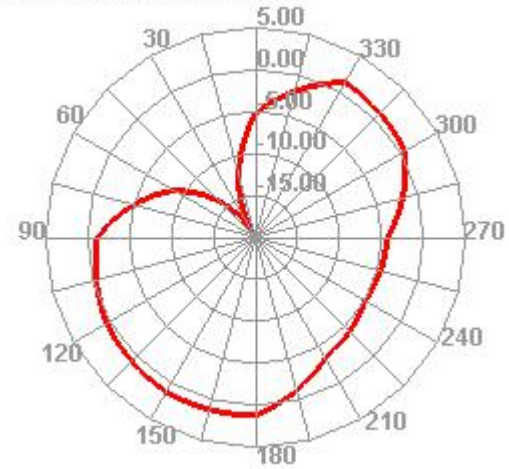
2400.000MHz E2



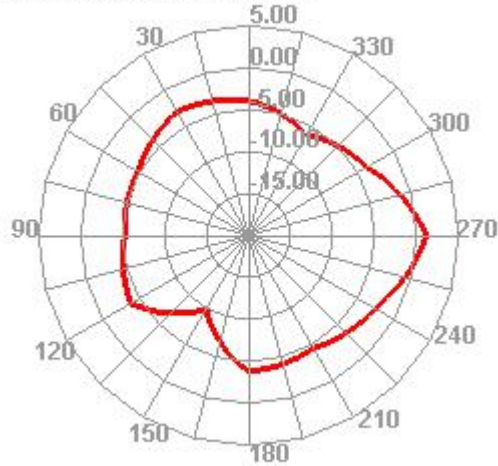
2450.000MHz



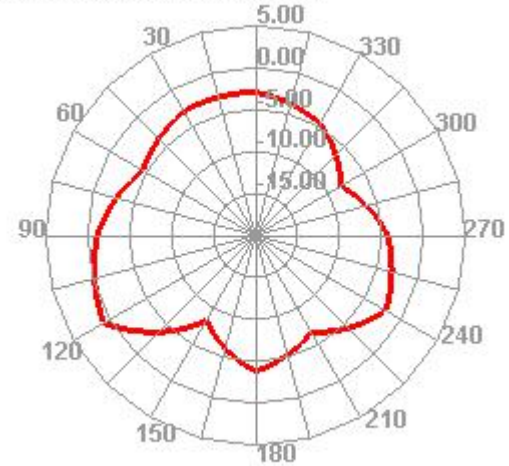
2450.000MHz H



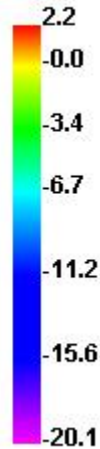
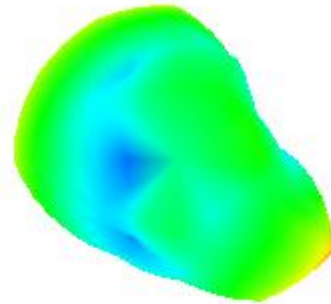
2450.000MHz E1



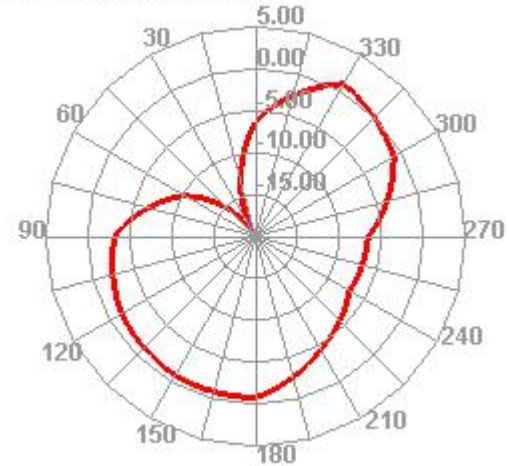
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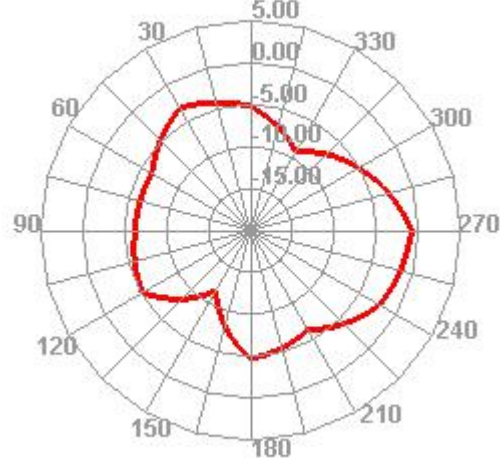
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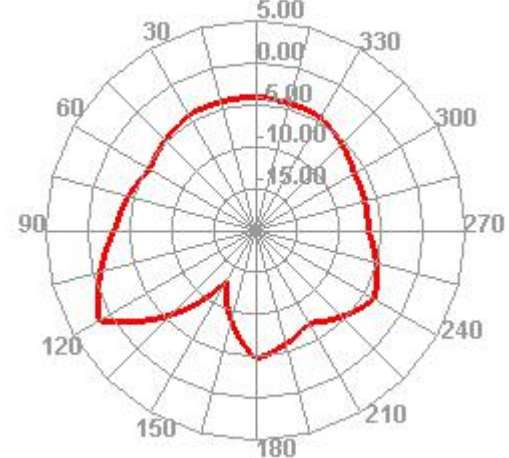
2500.000MHz H



2500.000MHz E1



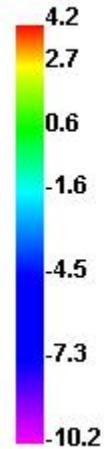
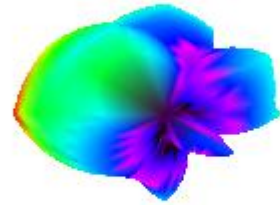
2500.000MHz E2



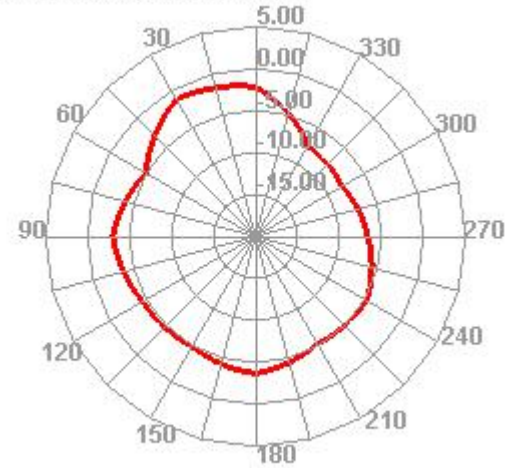
5GWiFi		WIFI-2		Passive Test For 5GWIFI							
Freq	Effi	Effi	Gain	Freq	Effi	Effi	Gain	Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)
5150	54.21	-2.66	4.18	5390	58.1	-2.36	3.79	5630	62.77	-2.02	3.54
5160	48.65	-3.13	3.75	5400	64.12	-1.93	4.01	5640	63.97	-1.94	3.51
5170	48.17	-3.17	3.72	5410	62.36	-2.05	4	5650	67.75	-1.69	3.7
5180	43.34	-3.63	3.3	5420	71.99	-1.43	4.48	5660	68.49	-1.64	3.69
5190	43.58	-3.61	3.35	5430	66.55	-1.77	3.95	5670	68.7	-1.63	3.8
5200	54.3	-2.65	4.36	5440	70.19	-1.54	4.24	5680	63.76	-1.95	3.59
5210	56.34	-2.49	4.63	5450	65.56	-1.83	3.83	5690	66.7	-1.76	3.66
5220	57.06	-2.44	4.61	5460	62.12	-2.07	3.72	5700	67.32	-1.72	3.73
5230	53.7	-2.7	4.42	5470	68.78	-1.63	4.13	5710	68.34	-1.65	3.95
5240	51.81	-2.86	4.18	5480	64.59	-1.9	3.76	5720	70.45	-1.52	4.07
5250	55.77	-2.54	4.51	5490	72.4	-1.4	4.34	5730	70.48	-1.52	4.13
5260	57.34	-2.42	4.67	5500	66.38	-1.78	3.81	5740	70.56	-1.51	4.29
5270	64.89	-1.88	5.09	5510	60.99	-2.15	3.5	5750	70.44	-1.52	4.09
5280	55.14	-2.59	4.35	5520	68.07	-1.67	3.89	5760	71.19	-1.48	4.31
5290	54.04	-2.67	4.18	5530	62.64	-2.03	3.58	5770	72.44	-1.4	4.48
5300	54.09	-2.67	4.1	5540	72.39	-1.4	4.28	5780	70.29	-1.53	4.24
5310	53.08	-2.75	4.09	5550	71.42	-1.46	4.27	5790	69.83	-1.56	4.25
5320	70.91	-1.49	5.27	5560	66.34	-1.78	3.79	5800	67.86	-1.68	4.05
5330	60.69	-2.17	4.48	5570	68.14	-1.67	3.97	5810	72.25	-1.41	4.37
5340	56.77	-2.46	3.97	5580	62.78	-2.02	3.39	5820	73.74	-1.32	4.54
5350	56.18	-2.5	3.86	5590	67.3	-1.72	3.85	5830	77.25	-1.12	4.67
5360	55.93	-2.52	3.81	5600	70.7	-1.51	4.12	5840	77.31	-1.12	4.6
5370	67.75	-1.69	4.49	5610	64.09	-1.93	3.64	5850	71	-1.49	4.16
5380	62.98	-2.01	4.06	5620	67.6	-1.7	3.96				



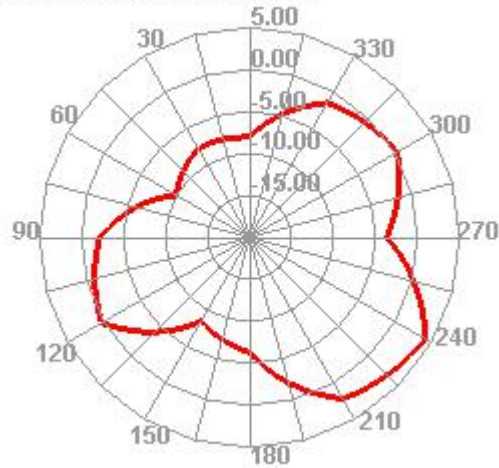
5150.000MHz



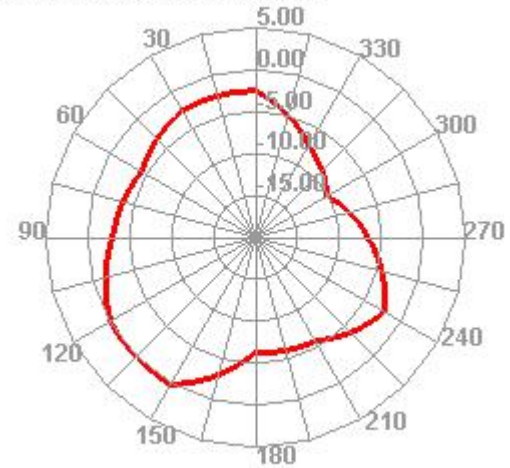
5150.000MHz H



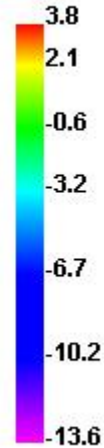
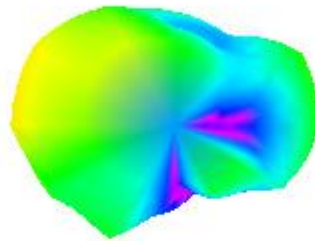
5150.000MHz E1



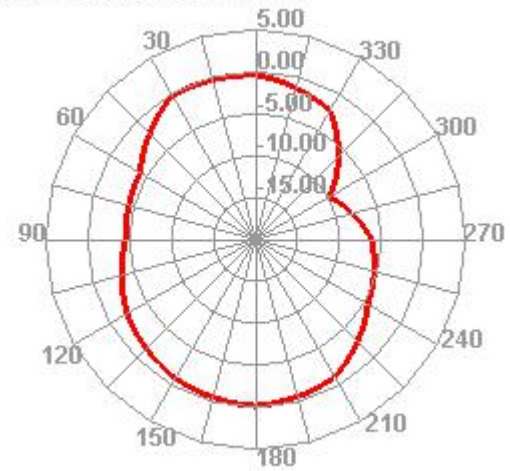
5150.000MHz E2



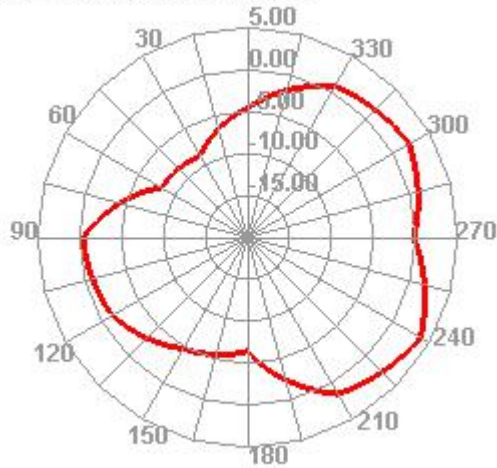
5500.000MHz



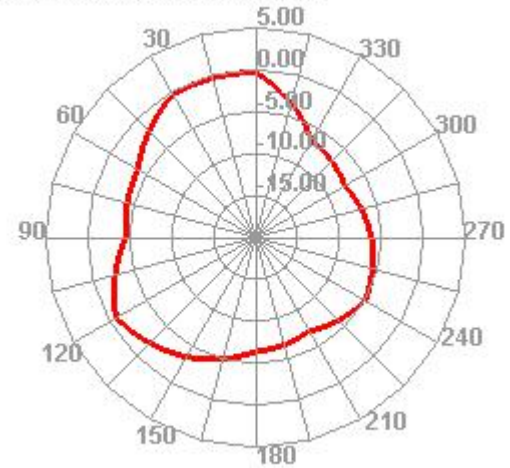
5500.000MHz H



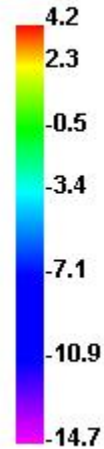
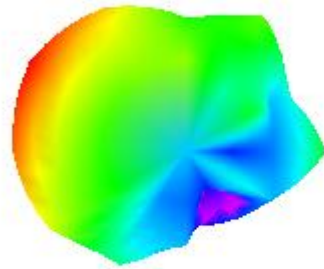
5500.000MHz E1



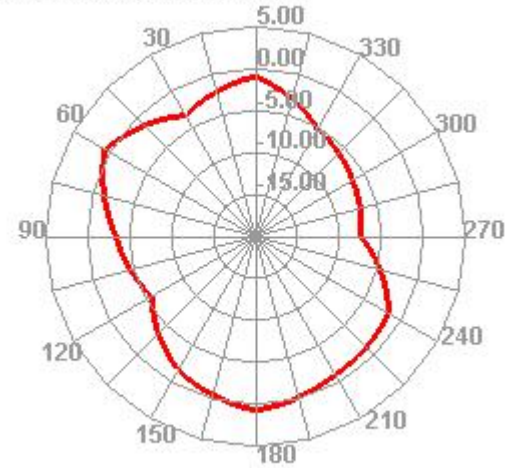
5500.000MHz E2



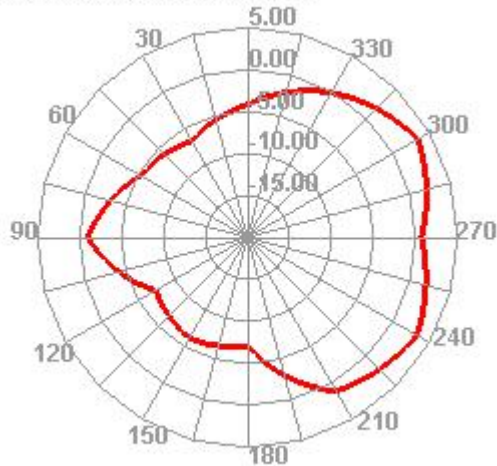
5850.000MHz



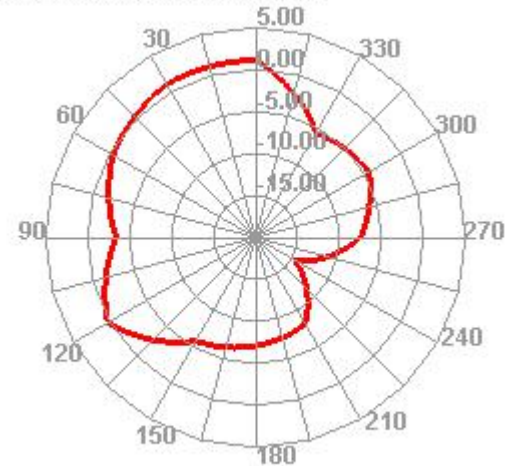
5850.000MHz H



5850.000MHz E1



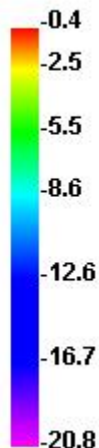
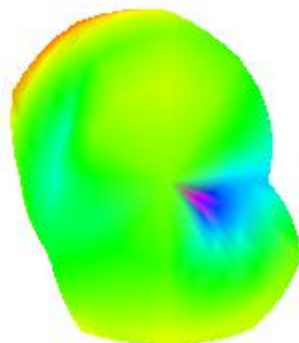
5850.000MHz E2



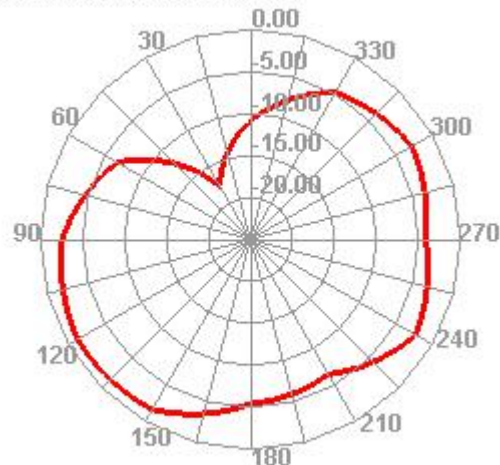
Passive Test For WII2.4			
Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
2400	36.52	-4.38	-0.43
2410	38.05	-4.2	-0.28
2420	38.31	-4.17	-0.39
2430	42.11	-3.76	0.17
2440	45	-3.47	0.25
2450	46.45	-3.33	0.53
2460	46.62	-3.31	0.5
2470	47.03	-3.28	0.12
2480	50.55	-2.96	0.75
2490	56.28	-2.5	1.44
2500	57.11	-2.43	1.81



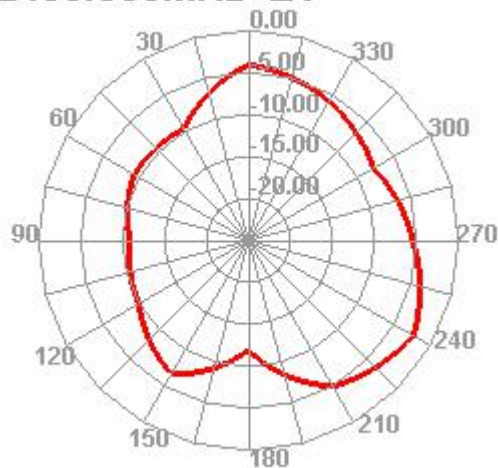
2400.000MHz



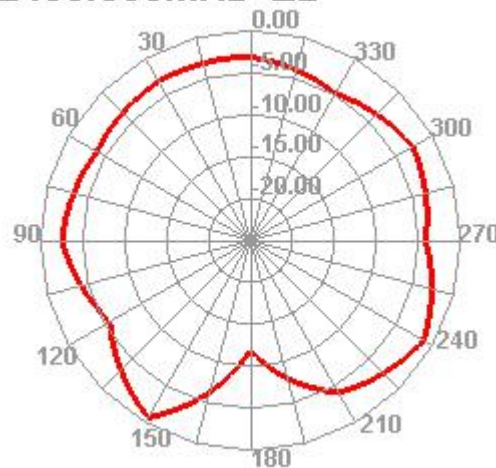
2400.000MHz H



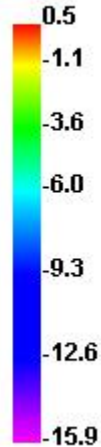
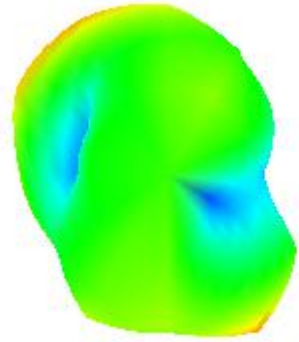
2400.000MHz E1



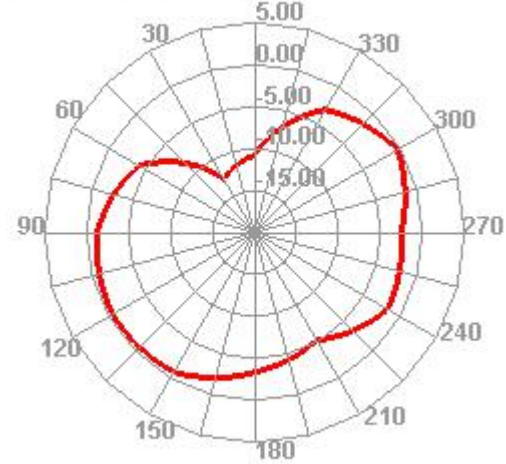
2400.000MHz E2



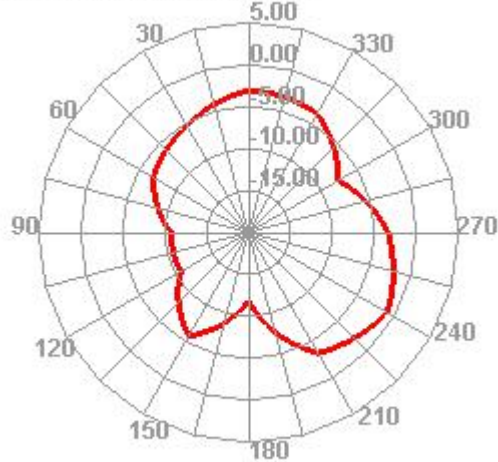
2450.000MHz



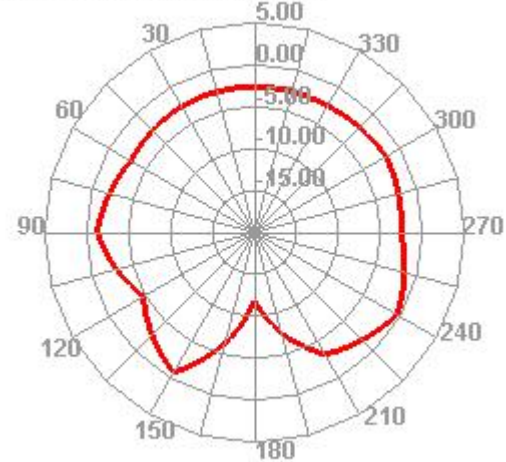
2450.000MHz H



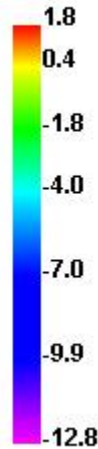
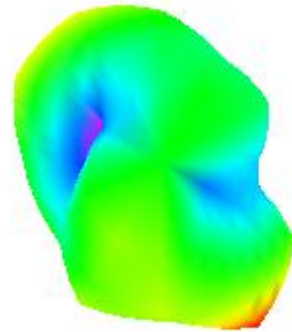
2450.000MHz E1



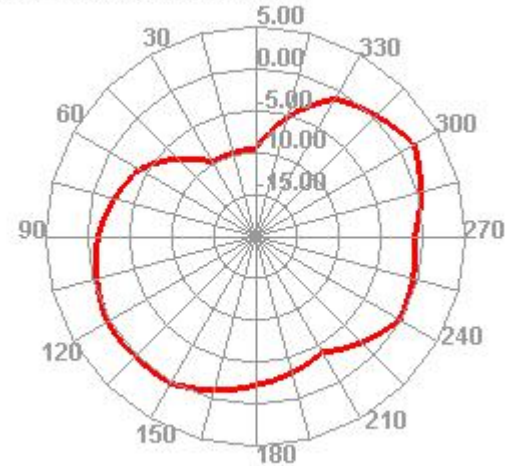
2450.000MHz E2



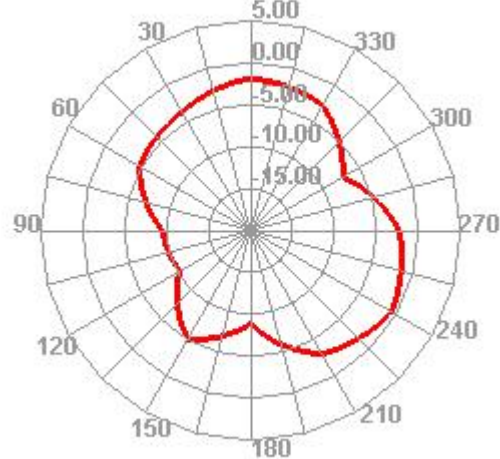
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

