

RX50 Antenna Information

1.Antenna Setup & measurement equipment:

ETS Chamber/Keysight E5071C

2.Antenna manufacturer:

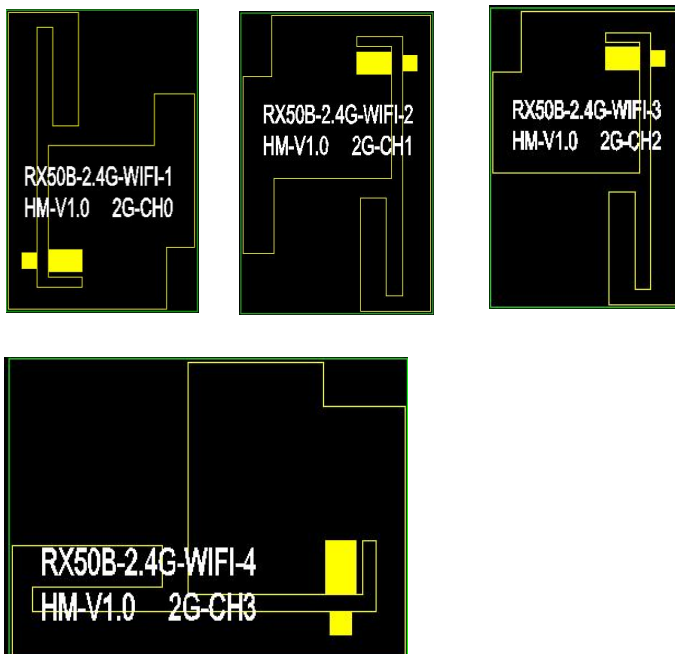
Suzhou Huimi Communication Technology Co., Ltd

3.Antenna Serial number

Antenna number	Rev	Serial number
RX50B-2.4G-WIFI-1	HM-V1.0	HM10103-2.4G-WIFI-1
RX50B-2.4G-WIFI-2	HM-V1.0	HM10103-2.4G-WIFI-2
RX50B-2.4G-WIFI-3	HM-V1.0	HM10103-2.4G-WIFI-3
RX50B-2.4G-WIFI-4	HM-V1.0	HM10103-2.4G-WIFI-4
5G-WIFI-1	HM-V1.0	HM10103-5G-WIFI-1
5G-WIFI-2	HM-V1.0	HM10103-5G-WIFI-2
5G-WIFI-3	HM-V1.0	HM10103-5G-WIFI-3
5G-WIFI-4	HM-V1.0	HM10103-5G-WIFI-4

4.Antenna Pattern summary

a.2.4G-WIFI Antenna Pattern



b.5G-WIFI Antenna Pattern



5.Antenna Gain

RX50B-2. 4G-WIFI-1		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	59.39	1.9
2410	59.74	1.9
2420	58.28	1.77
2430	57.19	1.66
2440	56.98	1.51
2450	60.67	1.84
2460	59.15	1.72
2470	62.85	2.03
2480	61.81	1.93
2490	55.65	1.36
2500	51.02	0.89

RX50B-2. 4G-WIFI-2		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	64.58	1.92
2410	64.79	1.92
2420	63.46	1.8
2430	62.05	1.64
2440	61.57	1.51
2450	64.94	1.8
2460	63.1	1.7
2470	66.53	2.02
2480	65.81	1.96
2490	59.68	1.51
2500	55.12	1.17

RX50B-2. 4G-WIFI-3		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	62.94	1.97
2410	63.11	1.93
2420	61.82	1.82
2430	60.79	1.59
2440	60.53	1.5
2450	64.19	1.83
2460	62.53	1.74
2470	65.86	2.05
2480	65.11	2.03
2490	58.85	1.54
2500	54.42	1.16

RX50B-2. 4G-WIFI-4		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	63.66	1.98
2410	63.78	1.92
2420	62.43	1.8
2430	60.92	1.67
2440	60.41	1.54
2450	63.87	1.8
2460	62.14	1.71
2470	65.8	2.01
2480	64.99	1.99
2490	59.04	1.53
2500	54.49	1.14

5G-WIFI-1		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5100	54.42	1.96
5150	50.05	0.08
5200	45.52	0.06
5250	52.82	0.59
5300	51.11	0.57
5350	53.42	0.74
5400	56.45	1.06
5450	49.17	0.89
5500	45.1	0.98
5550	37.47	0.42
5600	42.32	1.65
5650	40.23	1.49
5700	37.52	0.99
5750	38.13	1.71
5800	37.54	-0.46
5850	35.93	-0.96

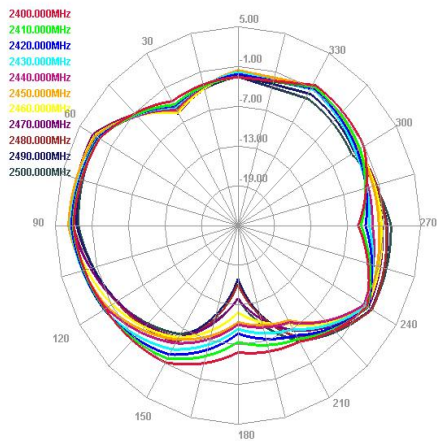
5G-WIFI-2		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5100	54.64	1.91
5150	49.61	1.04
5200	44.13	0.87
5250	45.55	0.88
5300	36.67	0.05
5350	42.32	1.62
5400	40.79	1.54
5450	38.1	1.32
5500	39.11	0.25
5550	35.44	0.81
5600	35.14	0.87
5650	35.08	-0.57
5700	34.76	-0.83
5750	32.68	1.26
5800	33.47	2.04
5850	36.96	1.65

5G-WIFI-3		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5100	55.09	2.03
5150	53.49	1.36
5200	49.6	1.01
5250	44.38	0.61
5300	46.75	0.95
5350	37.35	0.32
5400	41.89	1.54
5450	40.25	1.45
5500	38.17	1.4
5550	39.75	0.34
5600	35.41	0.9
5650	37.07	1.6
5700	35.6	-0.59
5750	35.19	-0.7
5800	35.39	0.93
5850	33.36	1.88

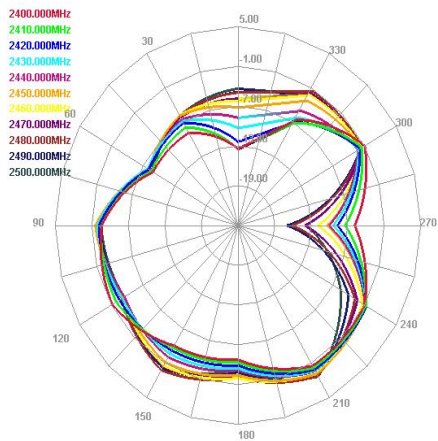
5G-WIFI-4		
Freq	Effi	Gain
(MHz)	(%)	(dBi)
5100	54.8	1.85
5150	49.98	1.17
5200	44.58	0.74
5250	37.13	0.16
5300	42.21	1.44
5350	40.93	1.54
5400	38.21	1.35
5450	35.33	0.88
5500	37.65	0.15
5550	37.24	0.27
5600	38.61	0.77
5650	39.55	1.06
5700	37.05	1.54
5750	35.64	1.01
5800	34.93	0.32
5850	33.52	2.06

2. 4G--WIFI-1

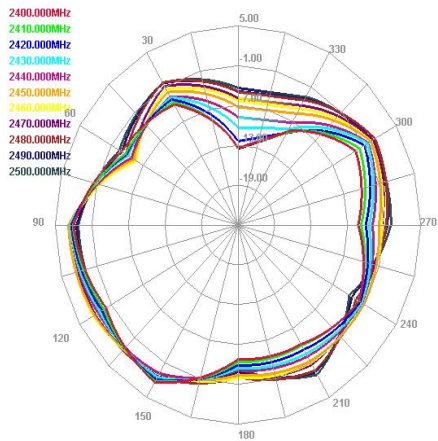
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E1 Face

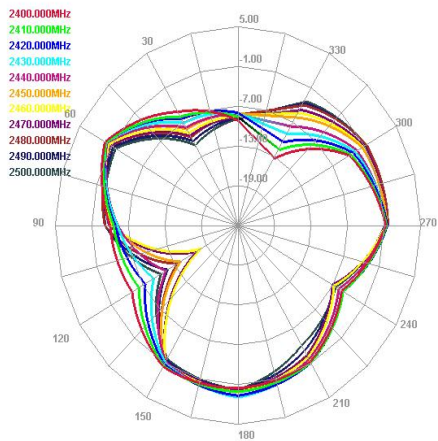


E2 Face

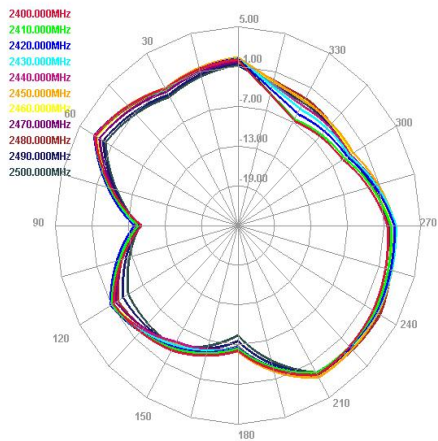


2. 4G--WIFI-2

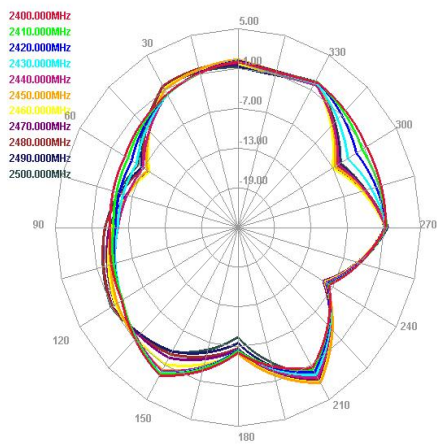
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E1 Face

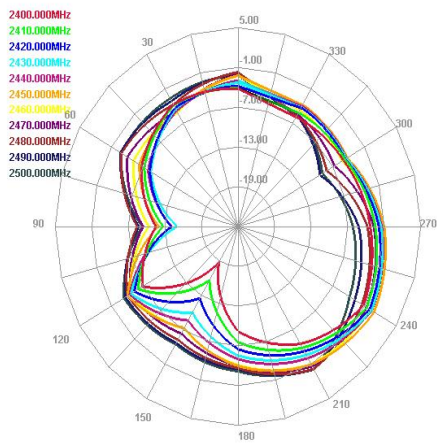


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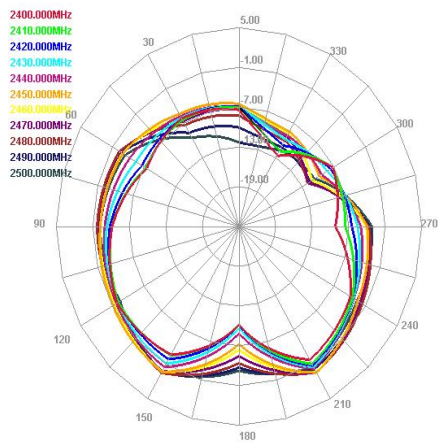


2. 4G--WIFI-3

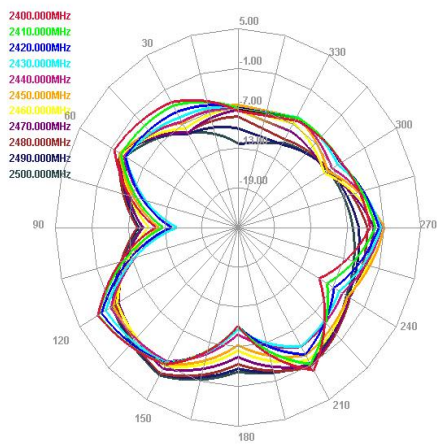
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E1 Face

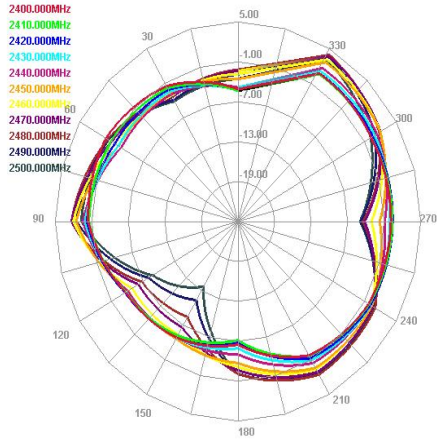


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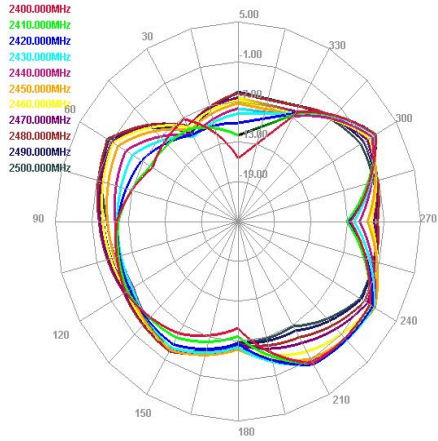


2. 4G--WIFI-4

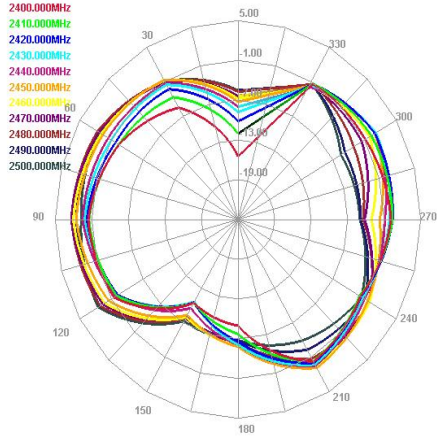
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E1 Face

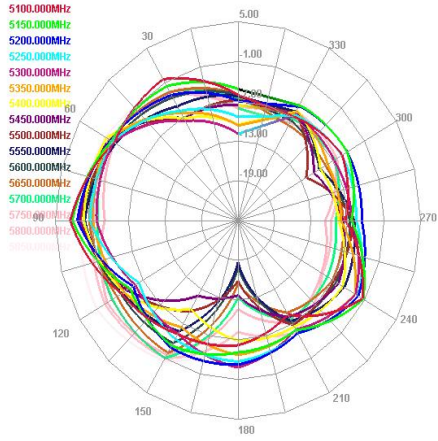


E2 Face

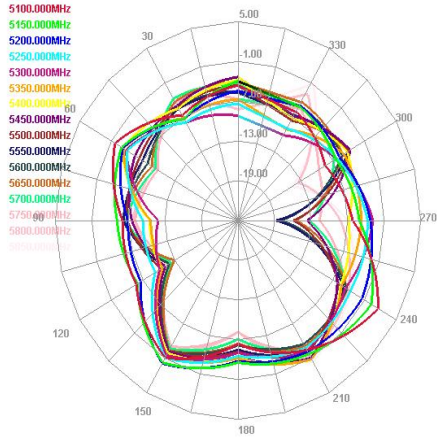


5g wifi-1

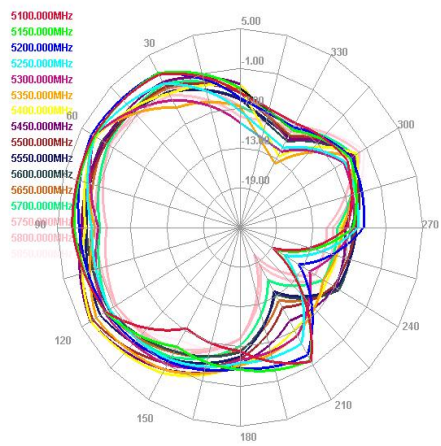
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E1 Face

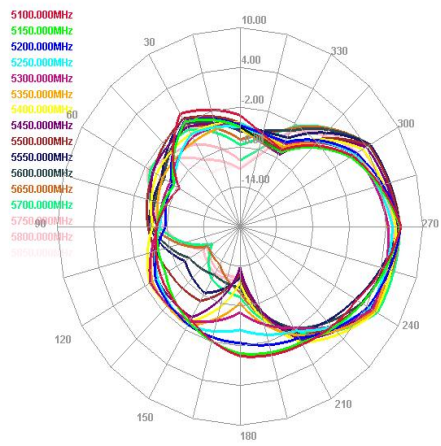


E2 Face

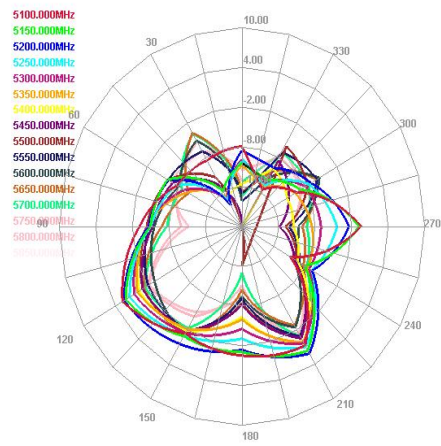


5g wifi-2

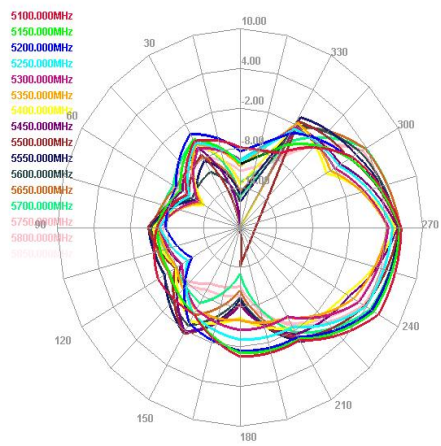
Horizontal



E1 Face

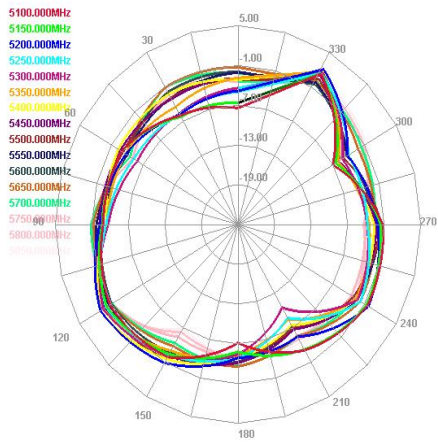


E2 Face

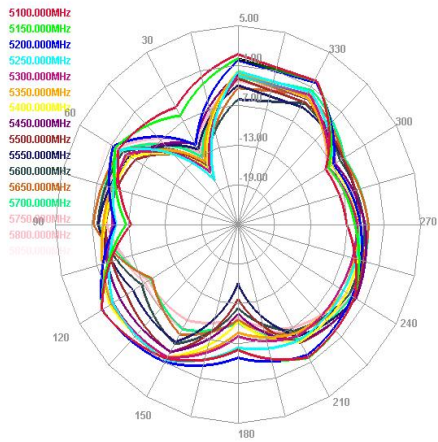


5g wifi-3

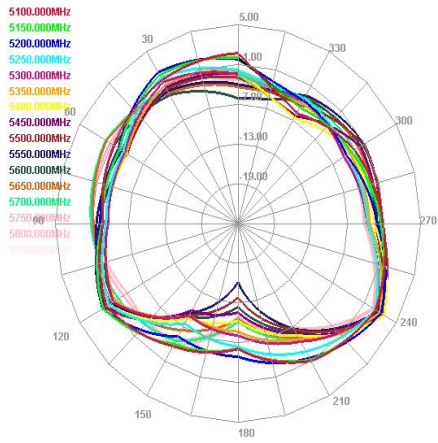
Horizontal



E1 Face

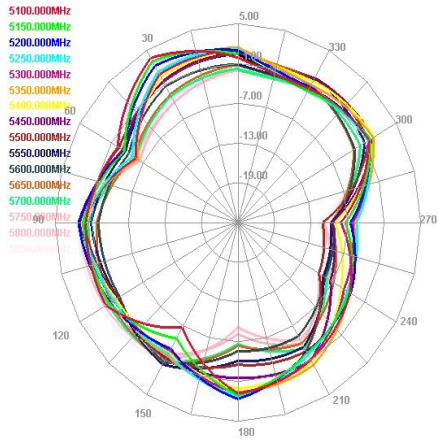


E2 Face

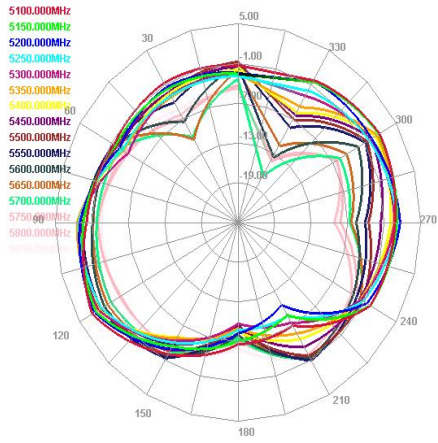


5g wifi-4

Horizontal



E1 Face



E2 Face

