

DATE : SEP. 11. 2006

CUSTOMER : First international Computer, Inc.

TEST REPORT

MODEL	XTB70
DESCRIPTION	PCB For Bluetooth Antenna 2.4~2.5GHZ PIFA For Wireless LAN Antenna 2.4~2.5GHZ / 5.15~5.875GHZ
SUPPLIER P/N	
CUSTOMER P/N	
FILE P/N	

FAVORTRON			CUSTOMER	
Manager	Supervisor	Engineer		
Nick	Vincent	Kristy		



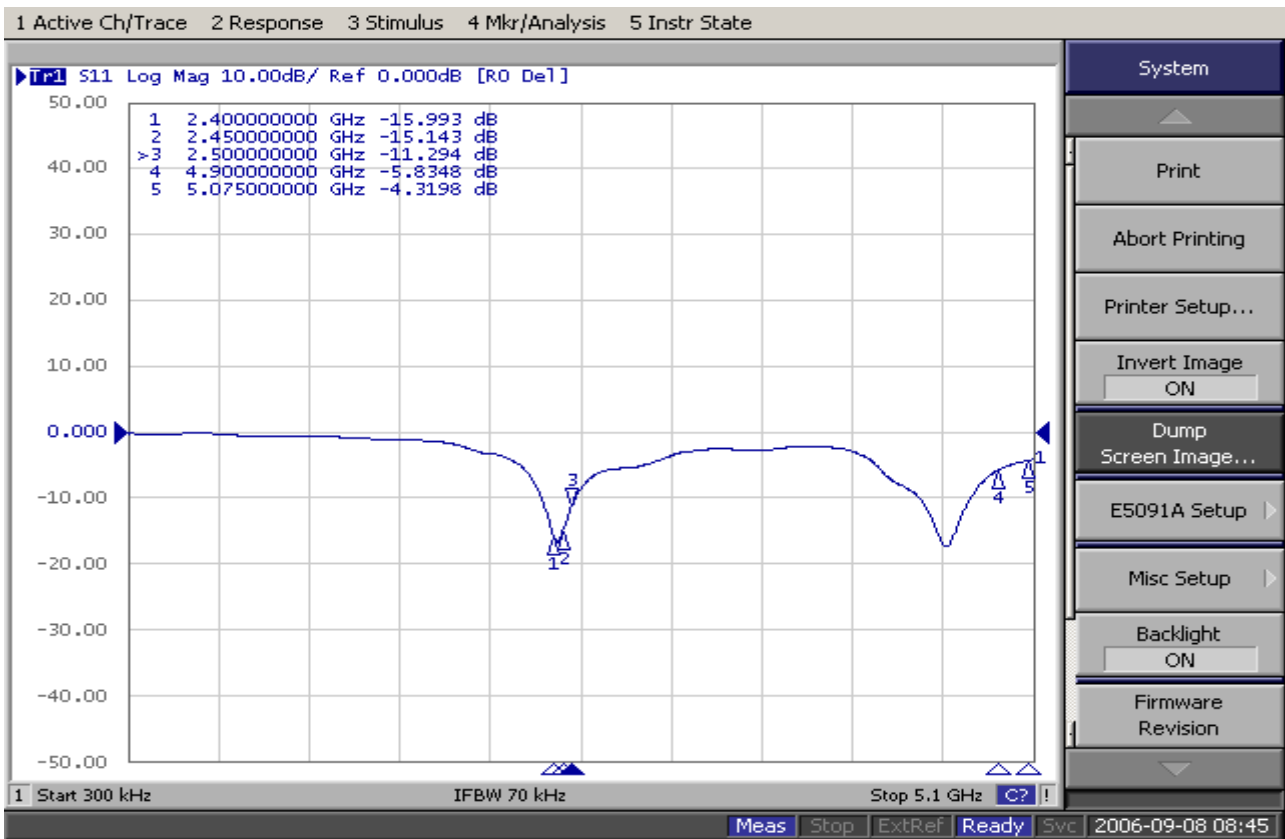
惠貿電子股份有限公司
FAVORTRON CO., LTD

台北縣新店市民權路 108-1 號 4F
4F, No. 108-1, Minchziuan Rd., SHzindian City,
Taipei HZsien 231, Taiwan. R.O.C

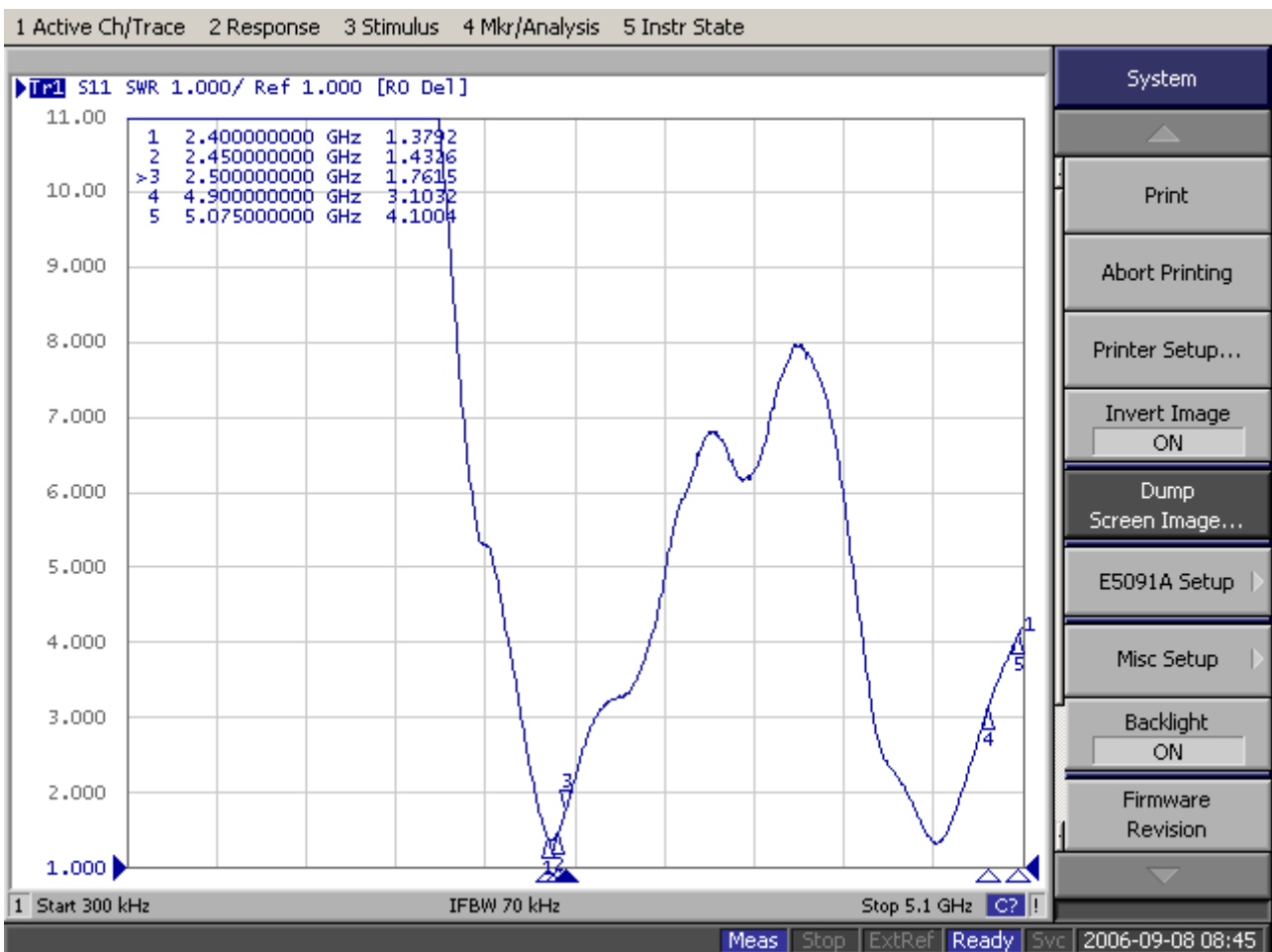
TEL: (02) 2218-2189
FAX: (02) 2218-5420
[URL: www.fvc.com.tw](http://www.fvc.com.tw)

1. Bluetooth.

2.4~2.5GHz / Return Loss



2.4~2.5GHz / VSWR



2.Gain & Pattern –Bluetooth.

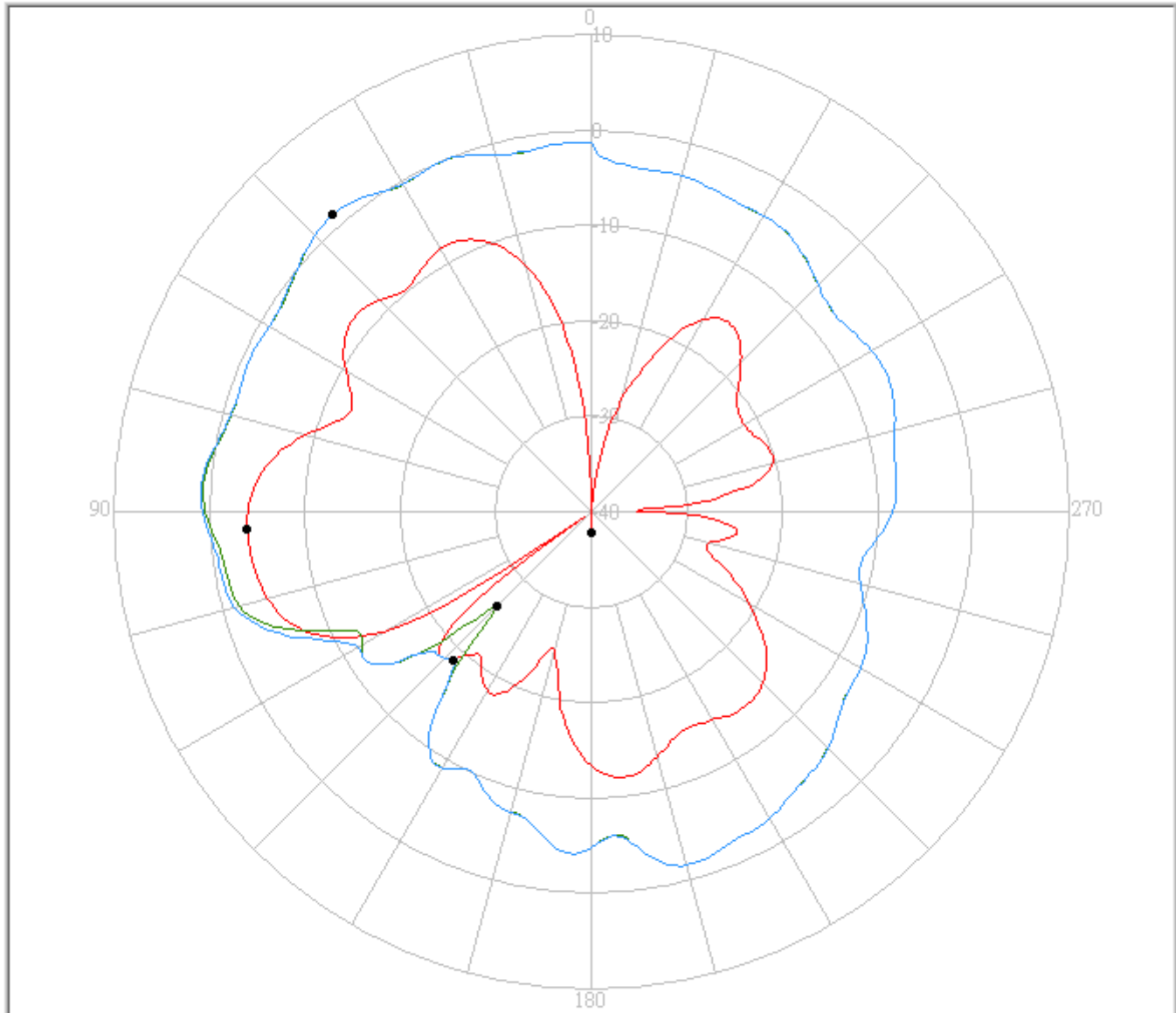
a. 2.4GHz



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Antenna Pattern Measurement

4F, No. 108-1, Min Chuan Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C. Tel:886-2-2218-2189,
Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	BT-PCB	2400.00	-3.96 / 93.00	-42.20 / 0.00	-11.90	Ver.	2006/9/7
2	XTB70	BT-PCB	2400.00	1.25 / 41.00	-26.08 / 135.00	-3.48	Hor.	2006/9/7
3	XTB70	BT-PCB	2400.00	1.26 / 41.00	-18.73 / 137.00	-3.38	V+H	2006/9/7

b. 2.45GHz



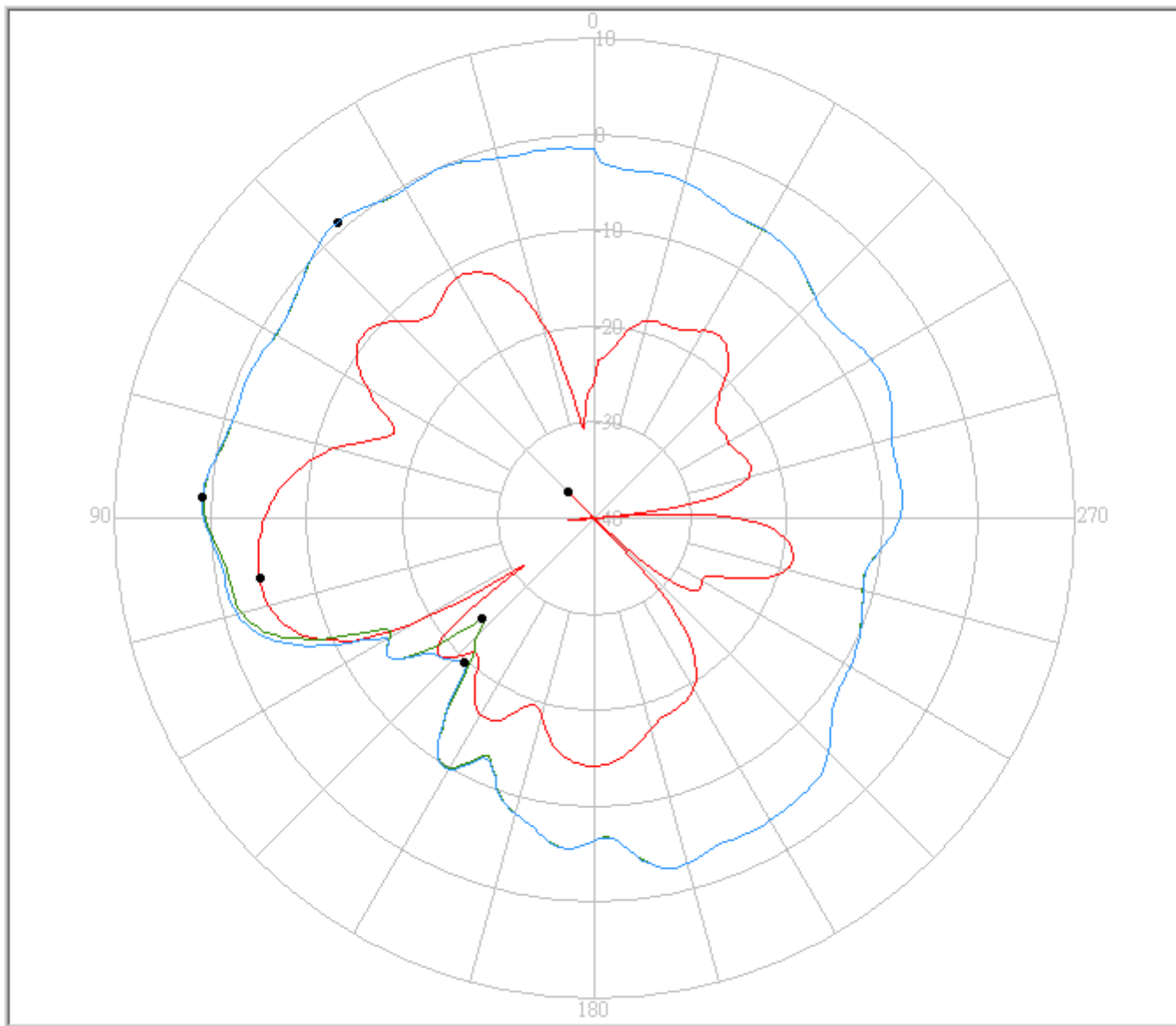
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	BT-PCB	2450.00	-4.61 / 100.00	-47.20 / 226.00	-13.44	Ver.	2006/9/7
2	XTB70	BT-PCB	2450.00	0.82 / 41.00	-24.34 / 132.00	-3.85	Hor.	2006/9/7
3	XTB70	BT-PCB	2450.00	0.88 / 87.00	-19.80 / 138.00	-3.78	V+H	2006/9/7

c. 2.5GHz



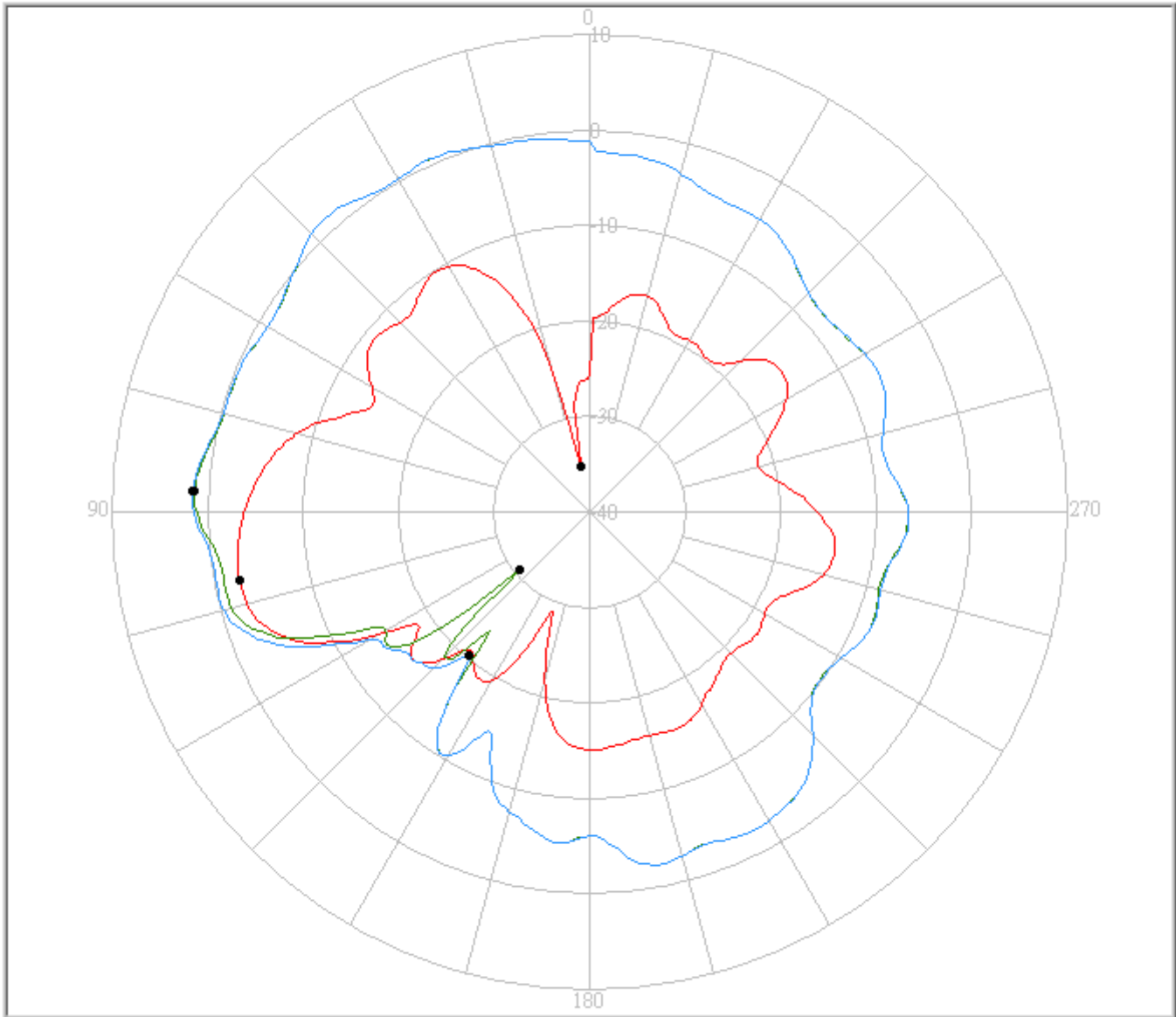
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Antenna Pattern Measurement

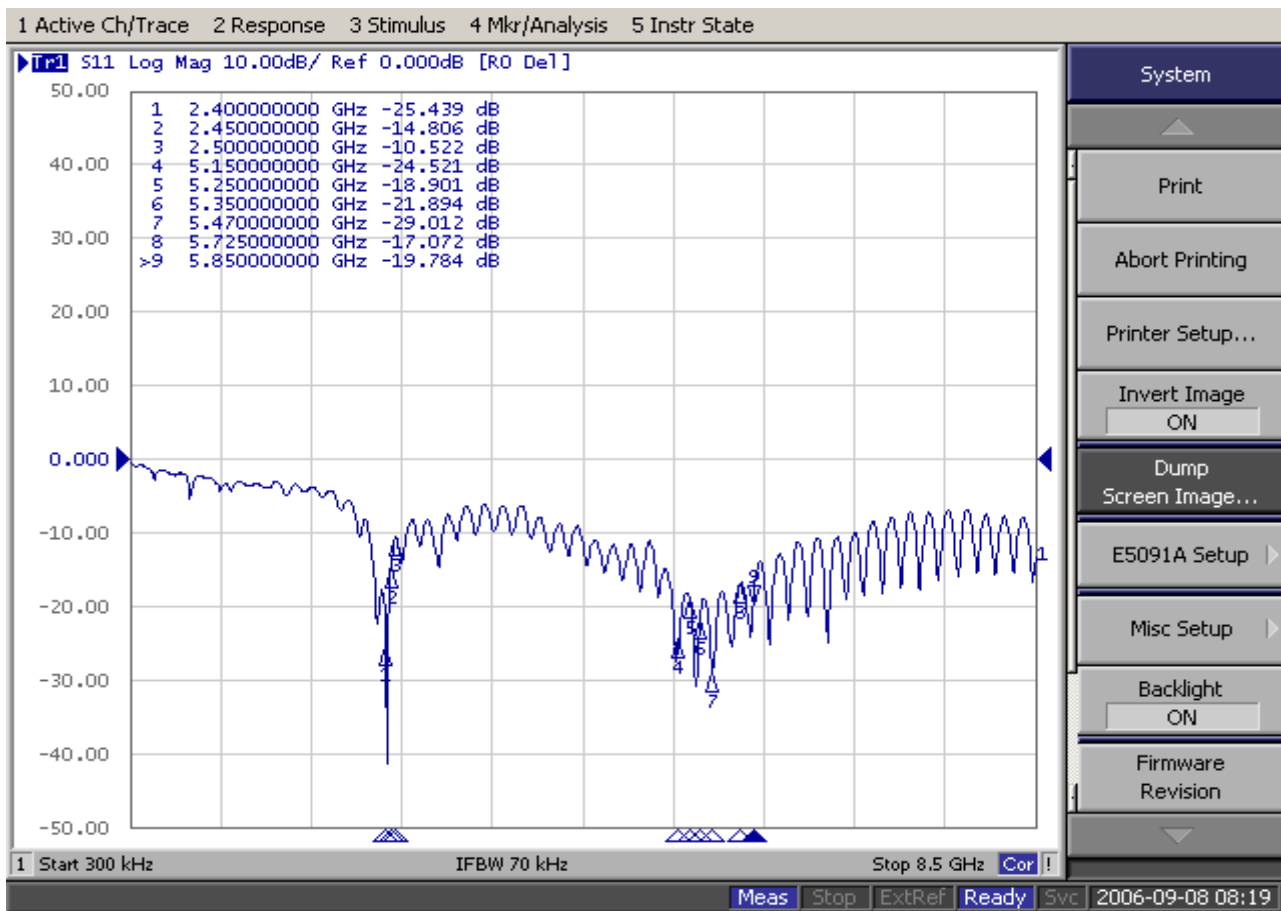
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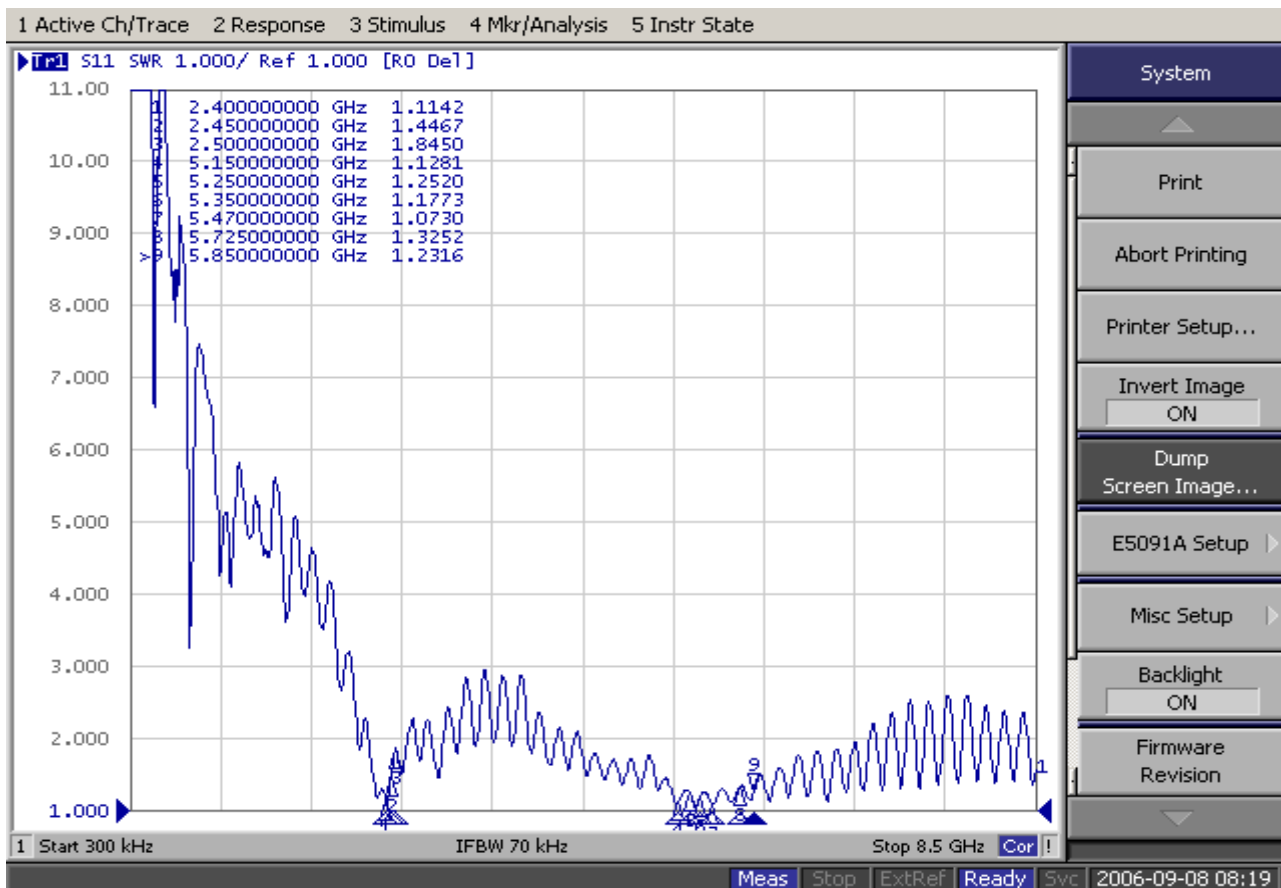
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	BT-PCB	2500.00	-2.66 / 101.00	-35.21 / 11.00	-11.73	Ver.	2006/9/7
2	XTB70	BT-PCB	2500.00	1.42 / 87.00	-30.48 / 130.00	-3.27	Hor.	2006/9/7
3	XTB70	BT-PCB	2500.00	1.57 / 87.00	-20.42 / 140.00	-3.16	V+H	2006/9/7

3. WLAN.(Right)

2.4~2.5GHZ & 5.15~5.875GHZ / Return Loss



2.4~2.5GHZ & 5.15~5.875GHZ / VSWR



4. Gain & Pattern – WLAN. (Right)

a. 2.4GHz



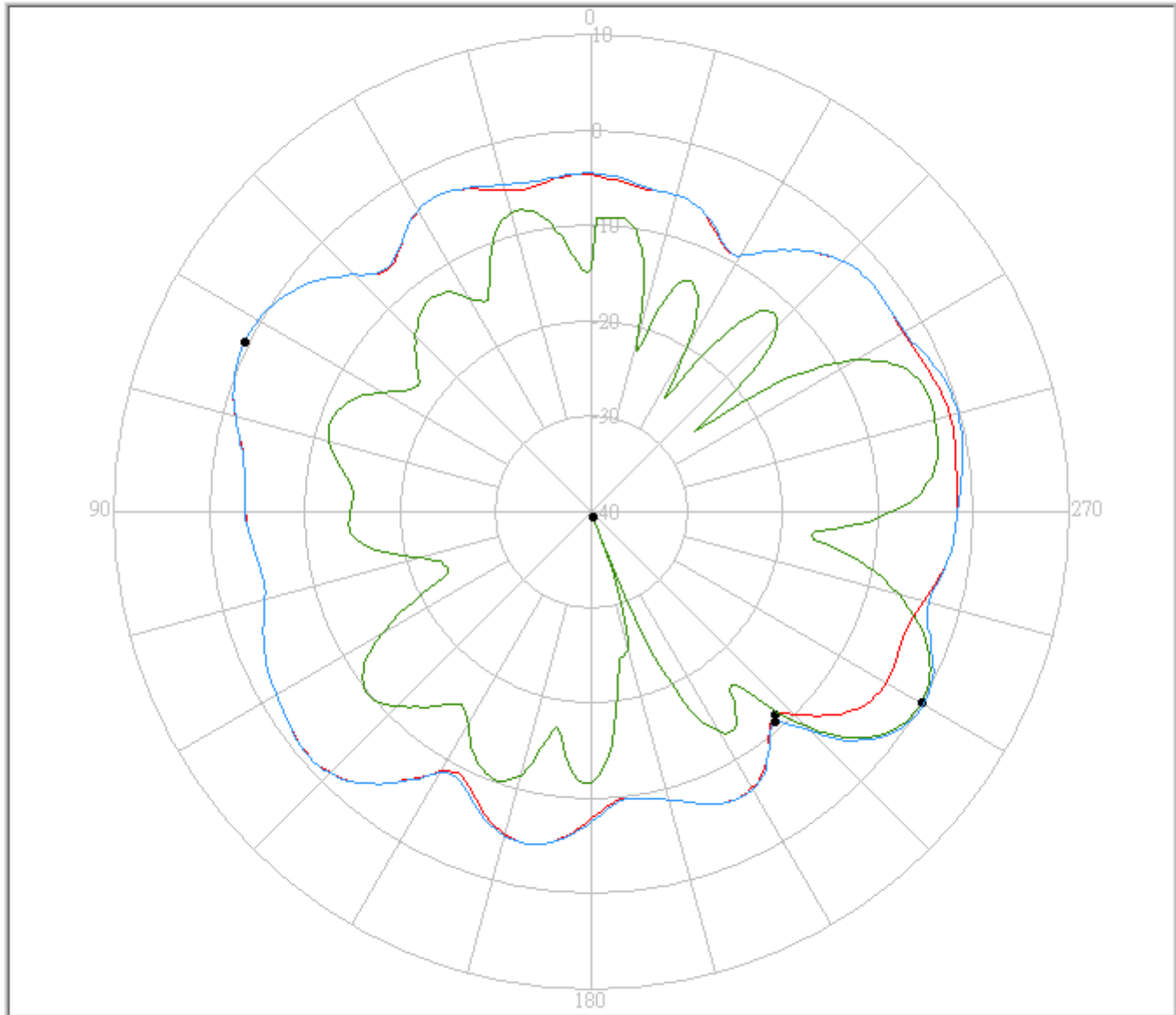
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	2400.00	0.40 / 64.00	-11.32 / 222.00	-3.77	Ver.	2006/9/7
2	XTB70	WLAN-R	2400.00	-0.10 / 240.00	-39.43 / 200.00	-8.93	Hor.	2006/9/7
3	XTB70	WLAN-R	2400.00	0.41 / 64.00	-10.80 / 221.00	-3.30	V+H	2006/9/7

b. 2.45GHz



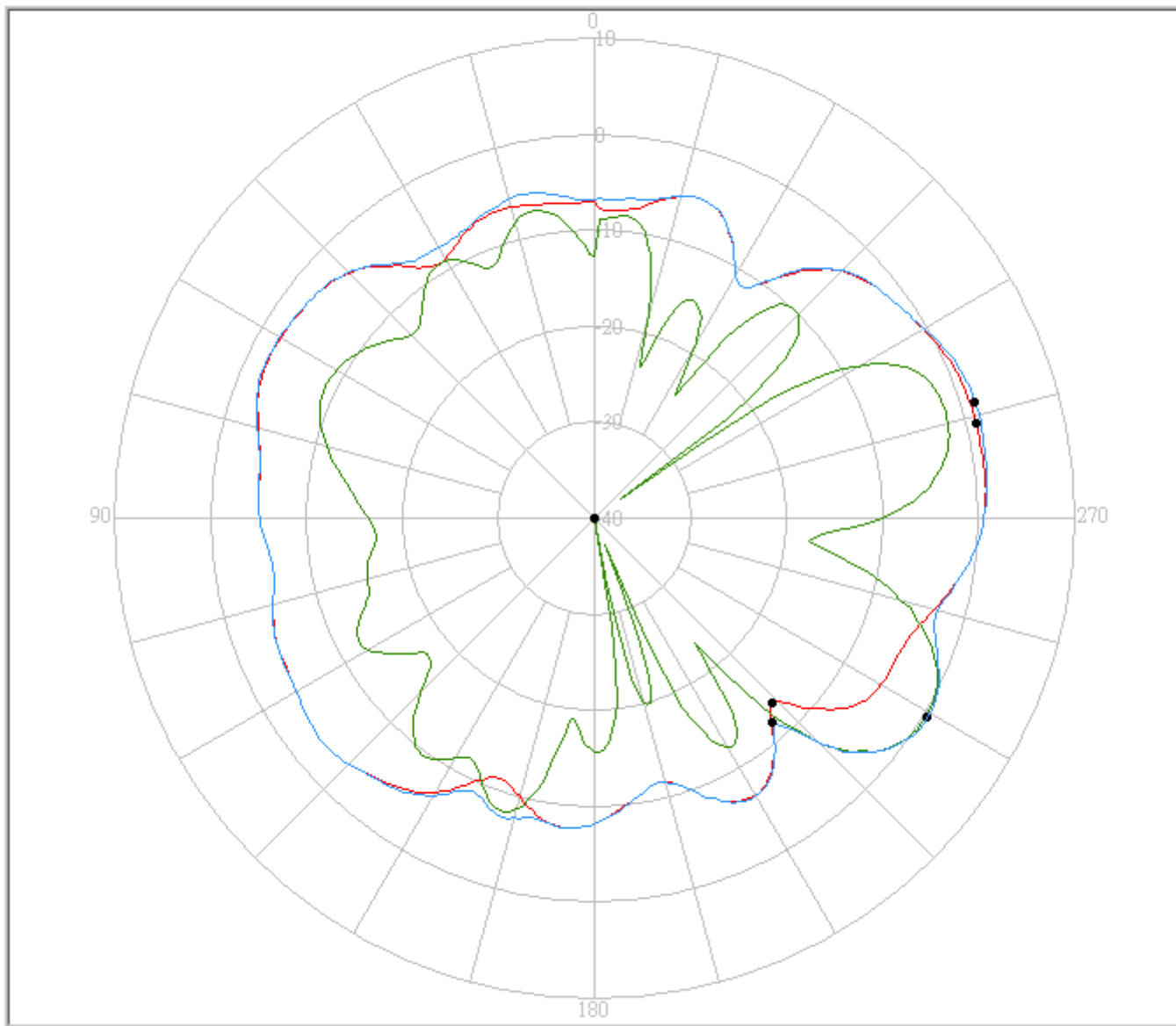
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	2450.00	0.93 / 284.00	-13.31 / 224.00	-4.28	Ver.	2006/9/7
2	XTB70	WLAN-R	2450.00	0.28 / 239.00	-48.39 / 190.00	-8.27	Hor.	2006/9/7
3	XTB70	WLAN-R	2450.00	1.46 / 287.00	-11.80 / 221.00	-3.61	V+H	2006/9/7

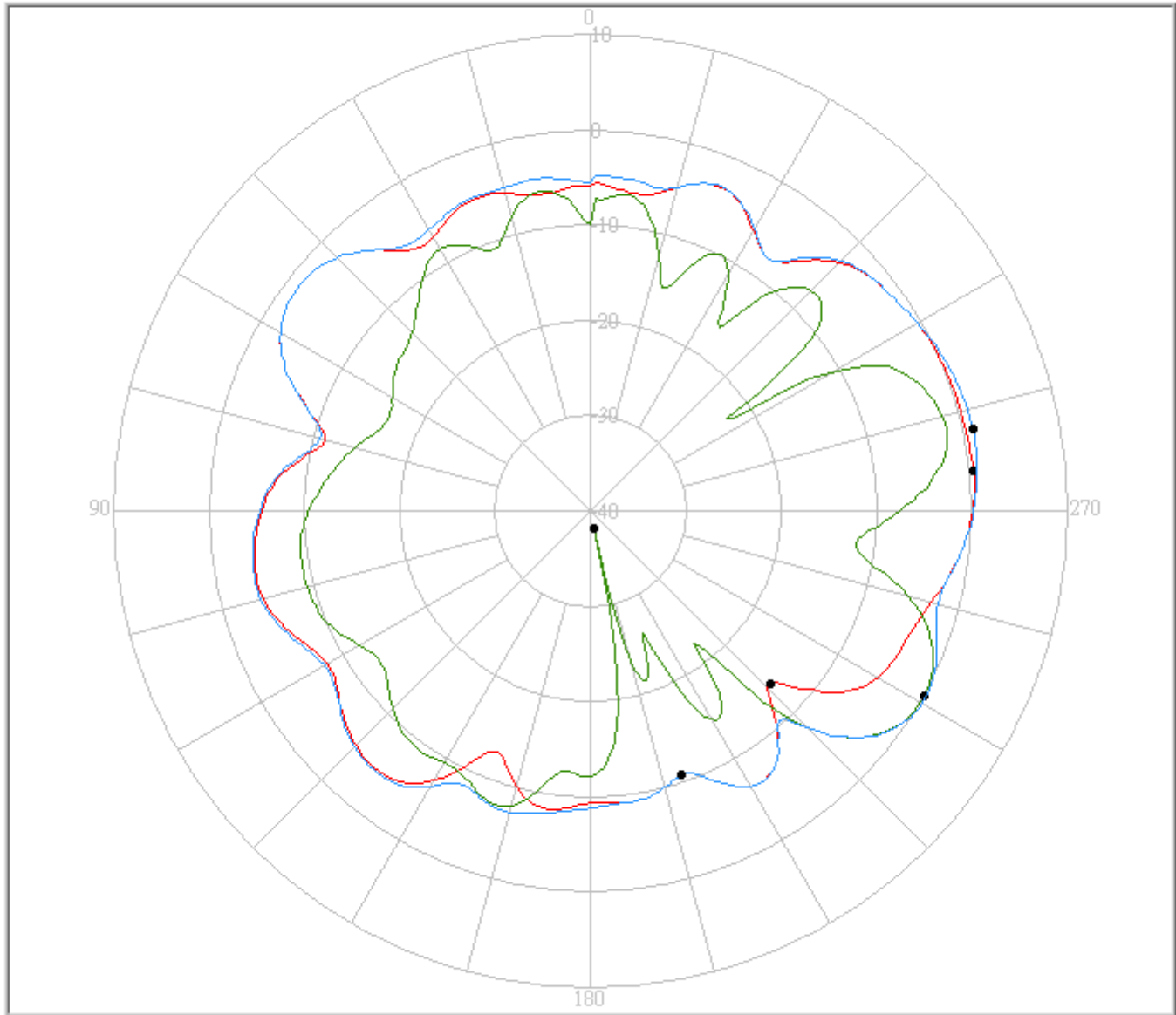
c. 2.5GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	2500.00	0.36 / 276.00	-13.90 / 226.00	-4.44	Ver.	2006/9/7
2	XTB70	WLAN-R	2500.00	0.02 / 241.00	-38.06 / 192.00	-7.79	Hor.	2006/9/7
3	XTB70	WLAN-R	2500.00	0.97 / 282.00	-10.73 / 199.00	-3.71	V+H	2006/9/7

d. 4.9GHz



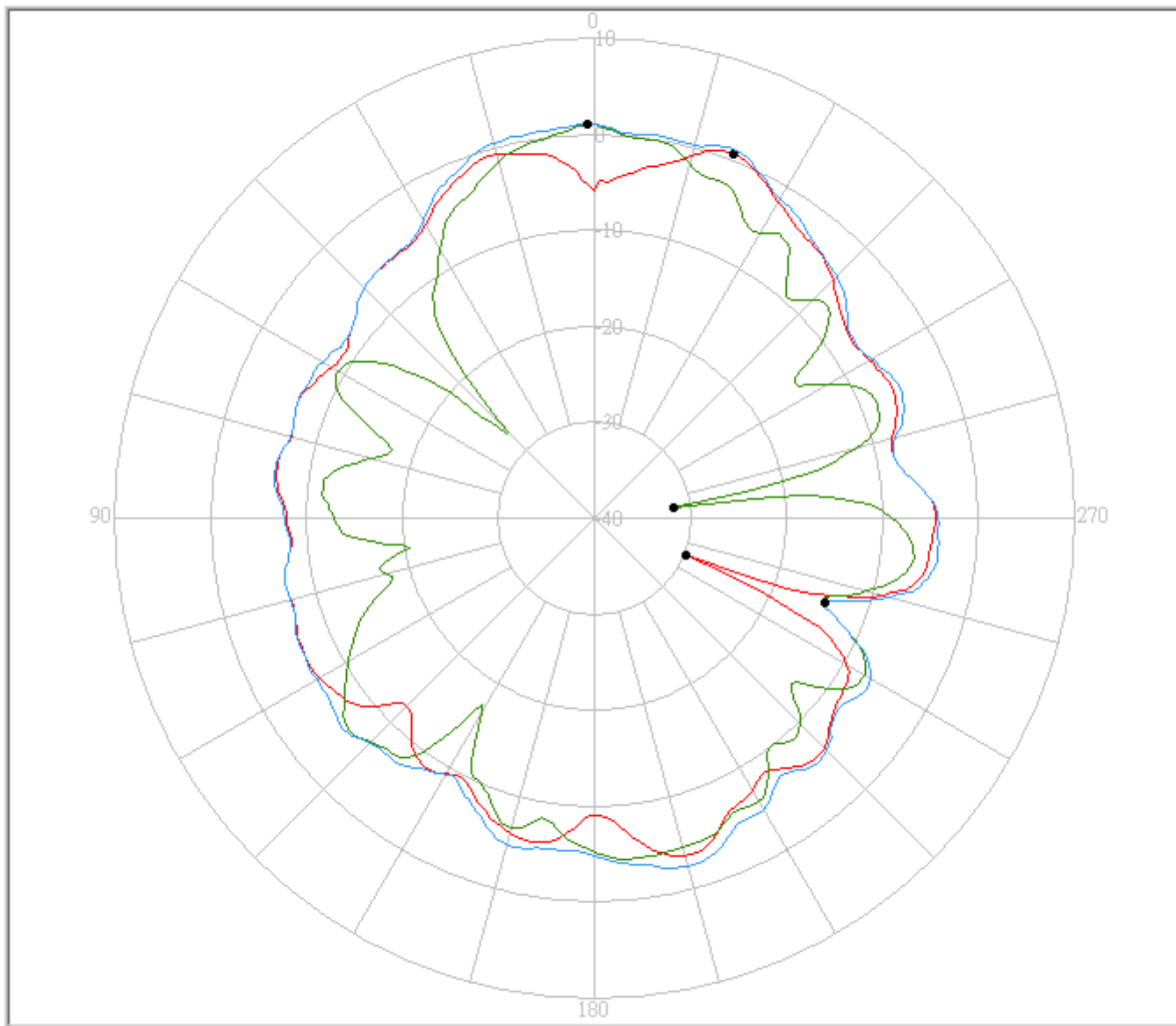
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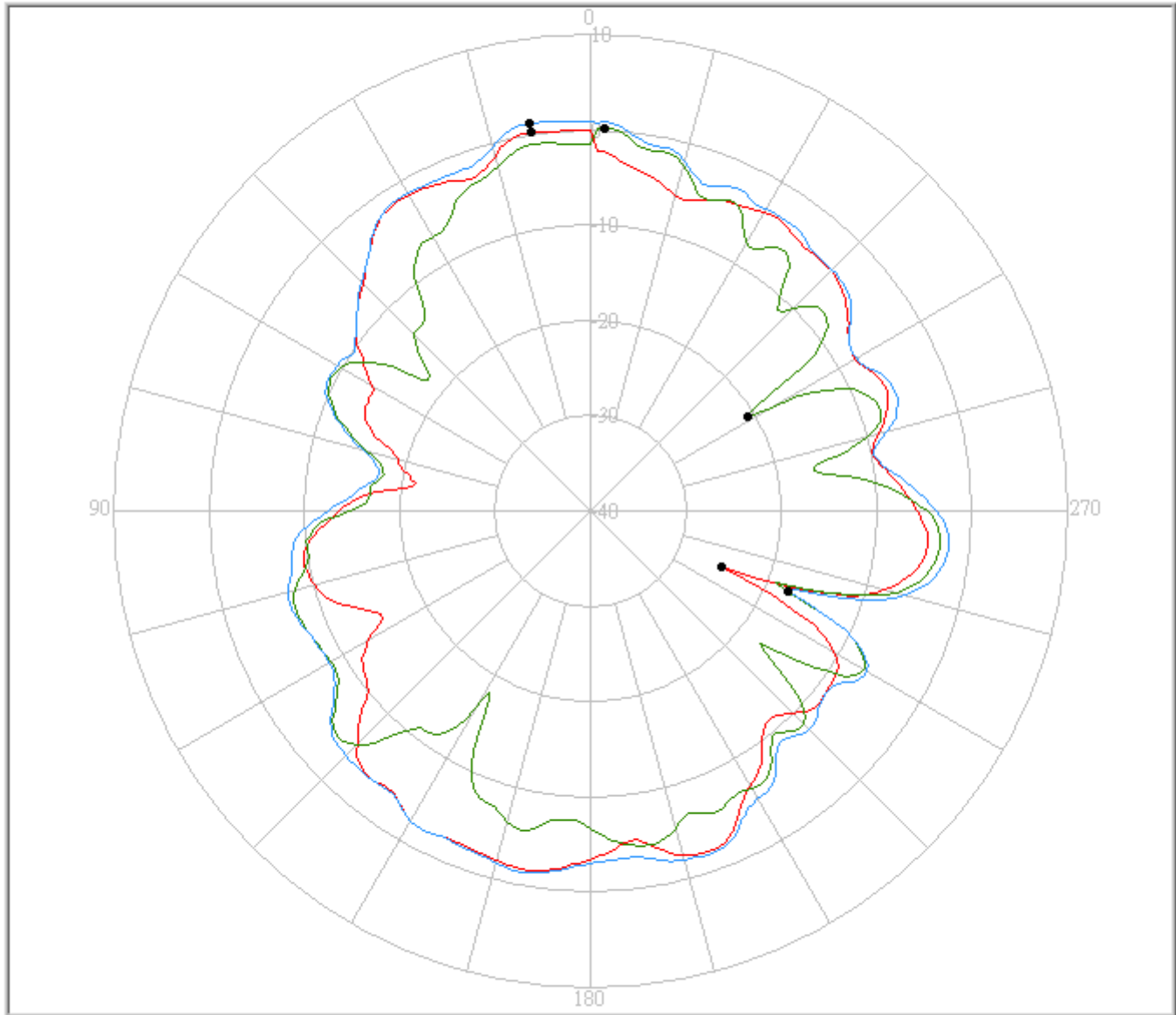
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	4900.00	0.58 / 339.00	-29.76 / 248.00	-5.44	Ver.	2006/9/7
2	XTB70	WLAN-R	4900.00	0.98 / 1.00	-31.65 / 278.00	-6.52	Hor.	2006/9/7
3	XTB70	WLAN-R	4900.00	1.09 / 1.00	-14.52 / 250.00	-4.14	V+H	2006/9/7

e. 5.075GHz



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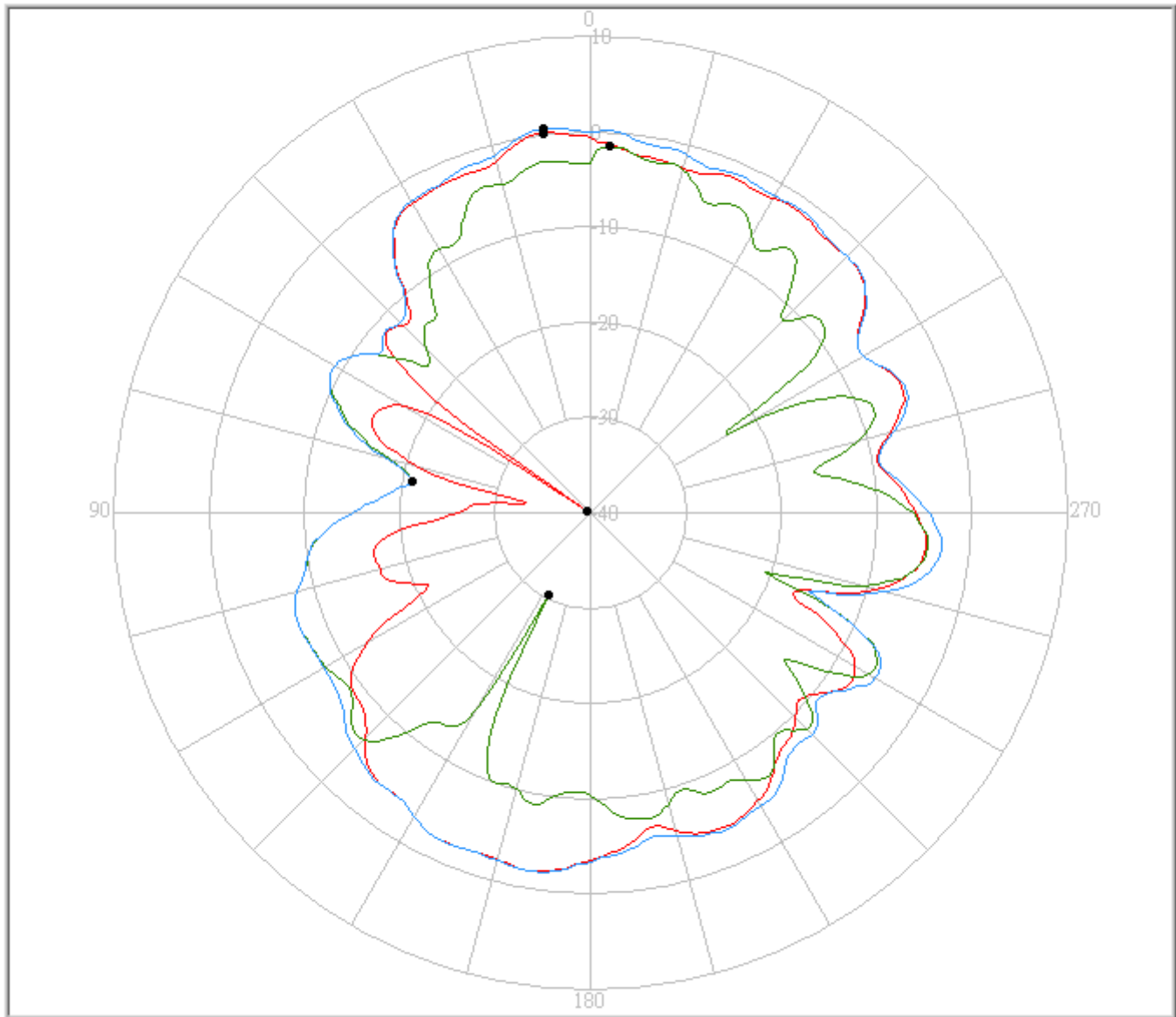
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5075.00	0.22 / 9.00	-25.18 / 247.00	-5.16	Ver.	2006/9/7
2	XTB70	WLAN-R	5075.00	0.20 / 358.00	-20.80 / 301.00	-6.62	Hor.	2006/9/7
3	XTB70	WLAN-R	5075.00	1.16 / 9.00	-17.63 / 248.00	-4.04	V+H	2006/9/7

f. 5.15GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5150.00	0.09 / 7.00	-39.54 / 56.00	-4.99	Ver.	2006/9/7
2	XTB70	WLAN-R	5150.00	-1.53 / 357.00	-30.24 / 153.00	-7.77	Hor.	2006/9/7
3	XTB70	WLAN-R	5150.00	0.58 / 7.00	-21.02 / 80.00	-4.24	V+H	2006/9/7

g. 5.25GHz



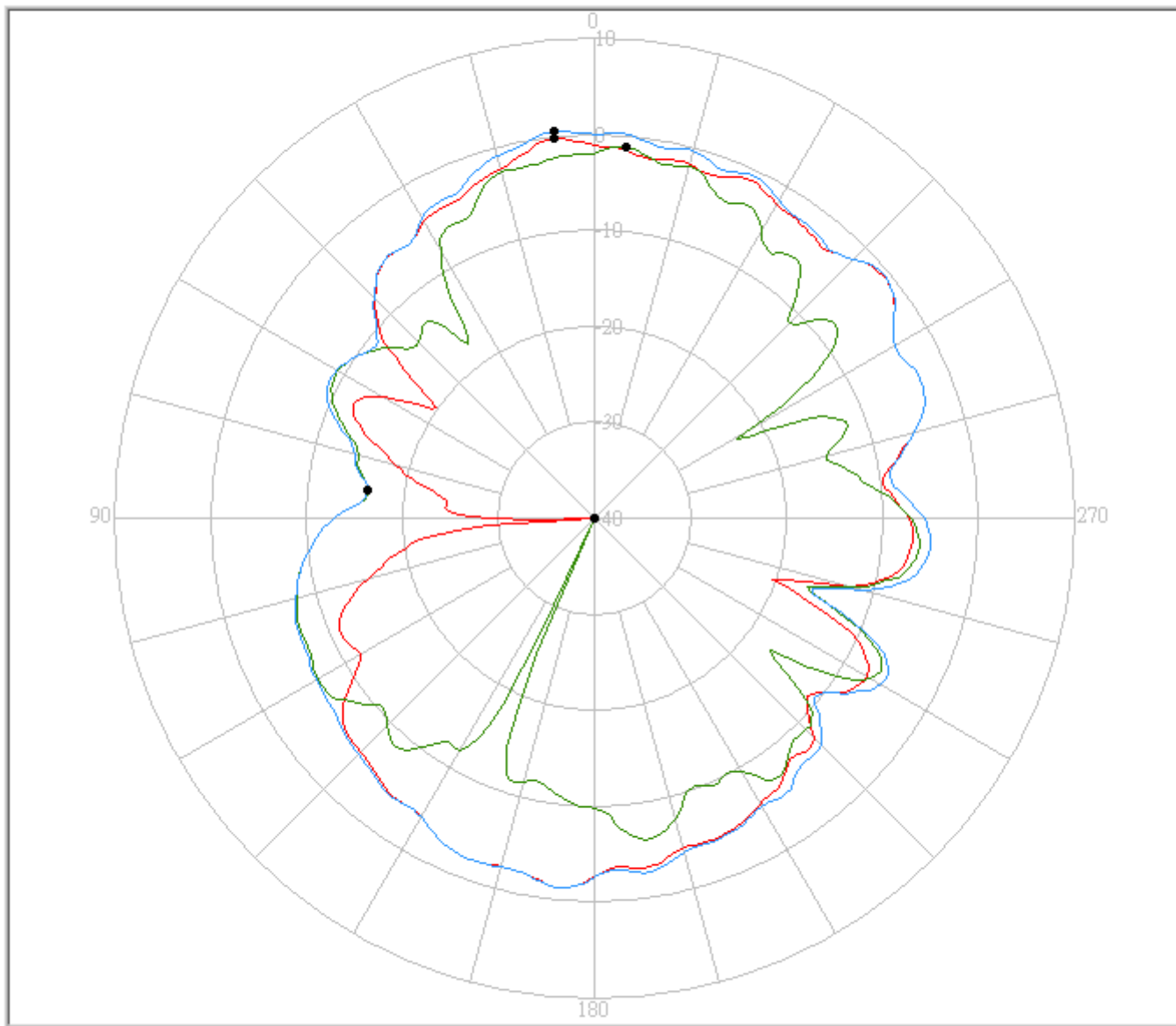
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5250.00	-0.22 / 6.00	-45.39 / 92.00	-4.81	Ver.	2006/9/7
2	XTB70	WLAN-R	5250.00	-1.27 / 355.00	-45.46 / 156.00	-7.60	Hor.	2006/9/7
3	XTB70	WLAN-R	5250.00	0.49 / 6.00	-16.28 / 83.00	-4.04	V+H	2006/9/7

h. 5.35GHz



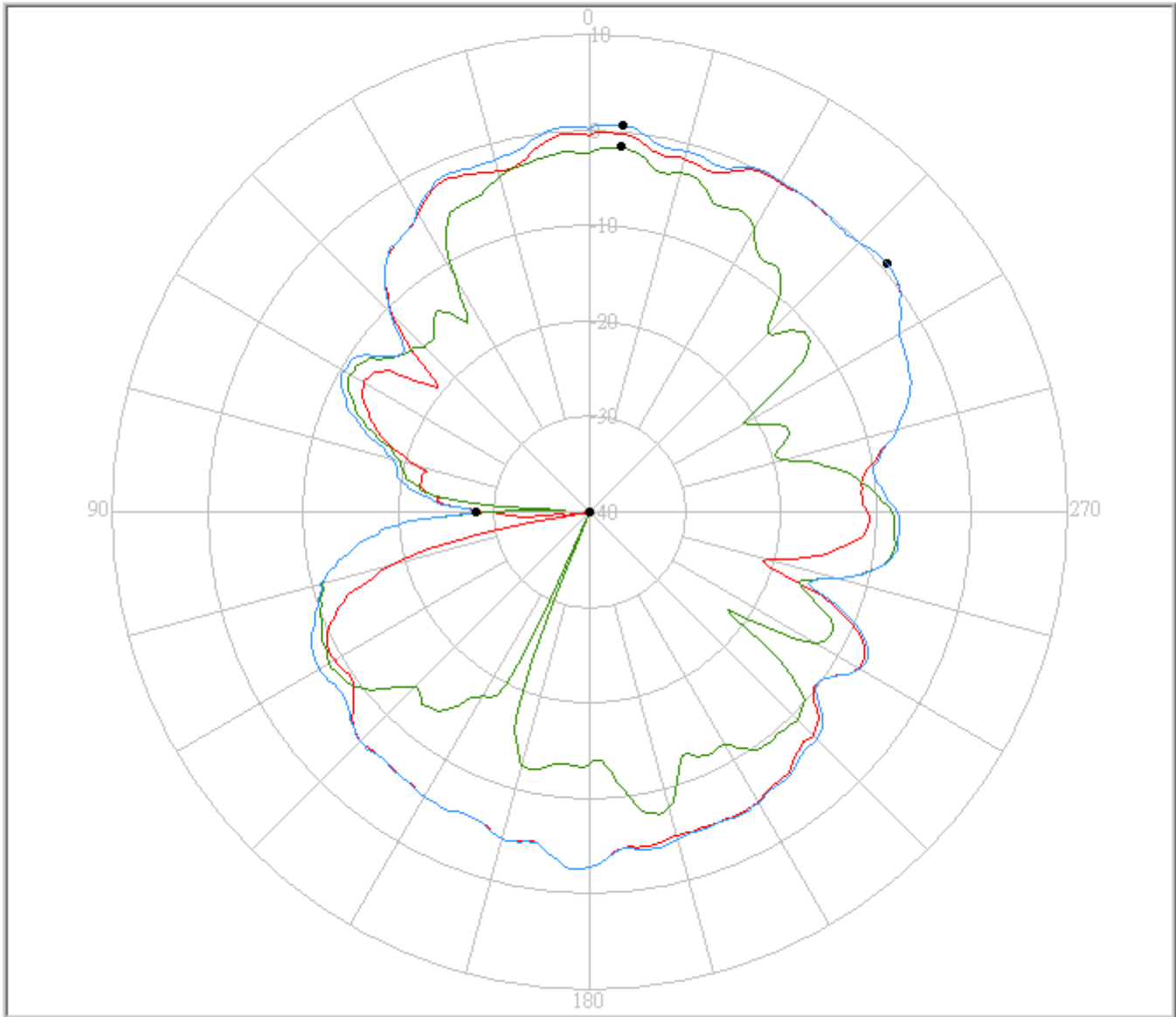
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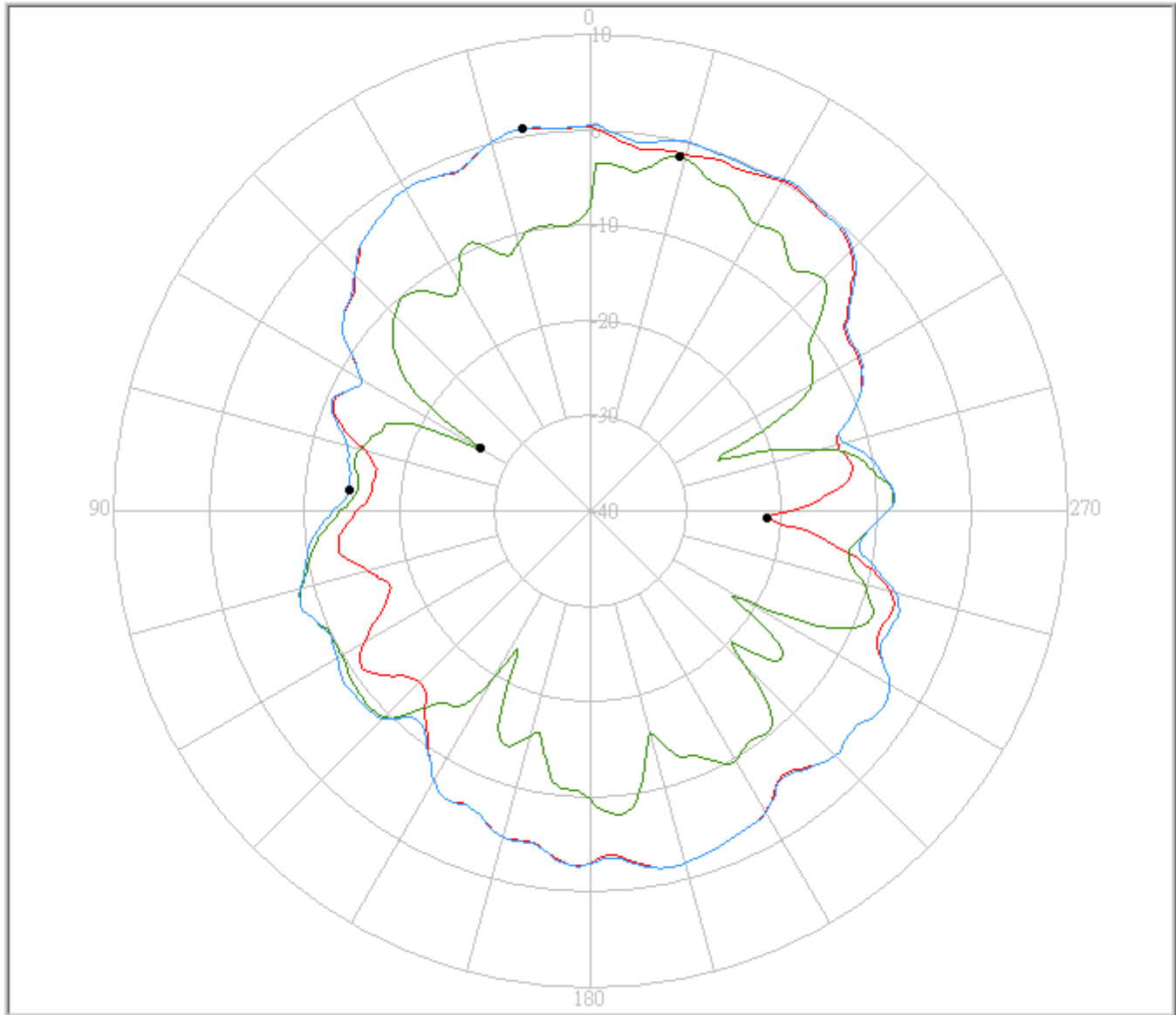
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5350.00	0.55 / 310.00	-42.80 / 97.00	-4.77	Ver.	2006/9/7
2	XTB70	WLAN-R	5350.00	-1.67 / 355.00	-43.82 / 157.00	-9.01	Hor.	2006/9/7
3	XTB70	WLAN-R	5350.00	0.65 / 355.00	-28.01 / 90.00	-4.30	V+H	2006/9/7

i. 5.47GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5470.00	0.69 / 10.00	-21.41 / 268.00	-4.37	Ver.	2006/9/7
2	XTB70	WLAN-R	5470.00	-1.61 / 346.00	-26.67 / 60.00	-9.47	Hor.	2006/9/7
3	XTB70	WLAN-R	5470.00	0.71 / 10.00	-14.65 / 85.00	-3.99	V+H	2006/9/7

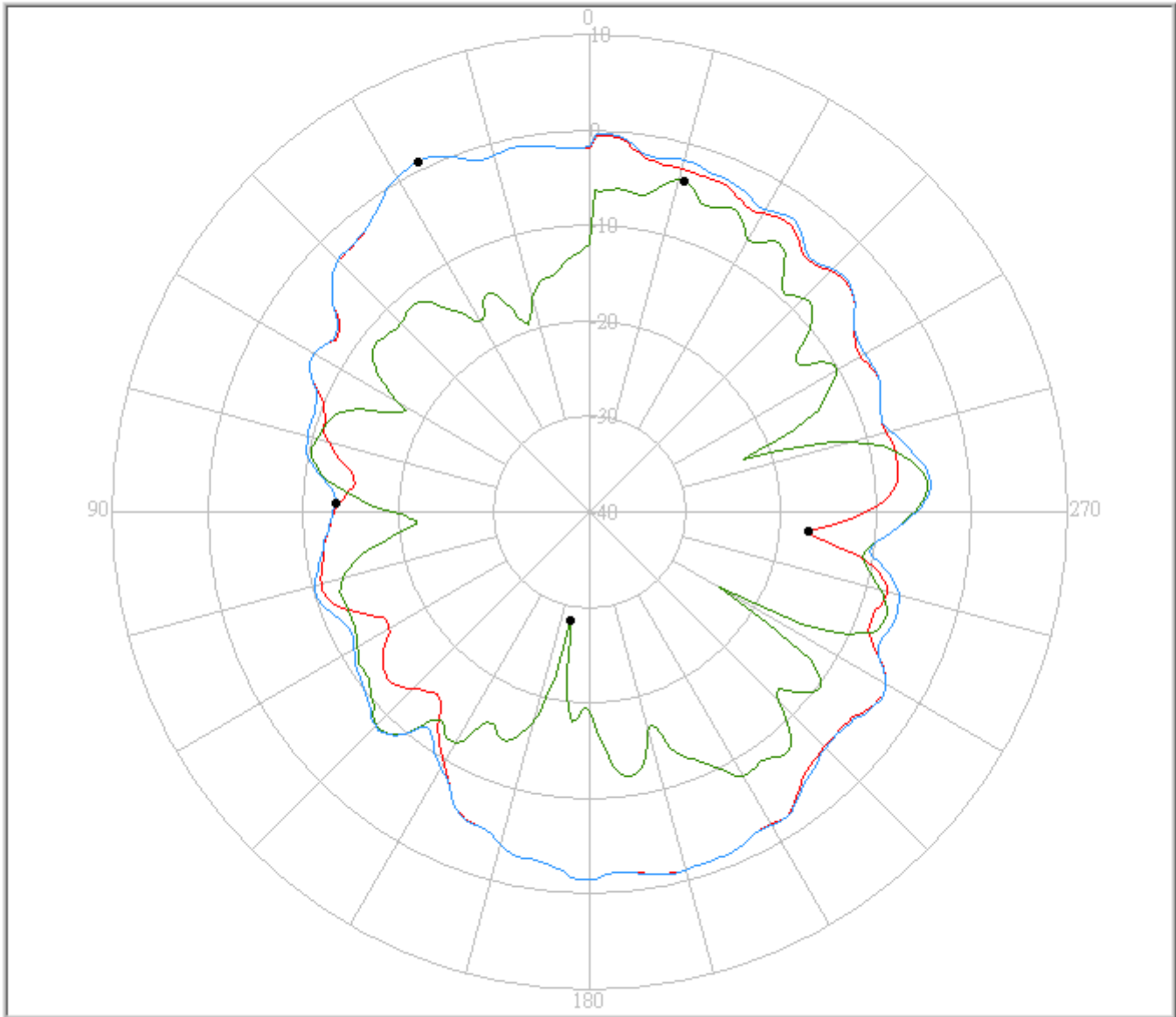
j. 5.6GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5600.00	0.82 / 26.00	-16.94 / 265.00	-4.51	Ver.	2006/9/7
2	XTB70	WLAN-R	5600.00	-4.00 / 344.00	-28.54 / 170.00	-10.20	Hor.	2006/9/7
3	XTB70	WLAN-R	5600.00	0.82 / 26.00	-13.41 / 88.00	-4.15	V+H	2006/9/7

k. 5.725GHz



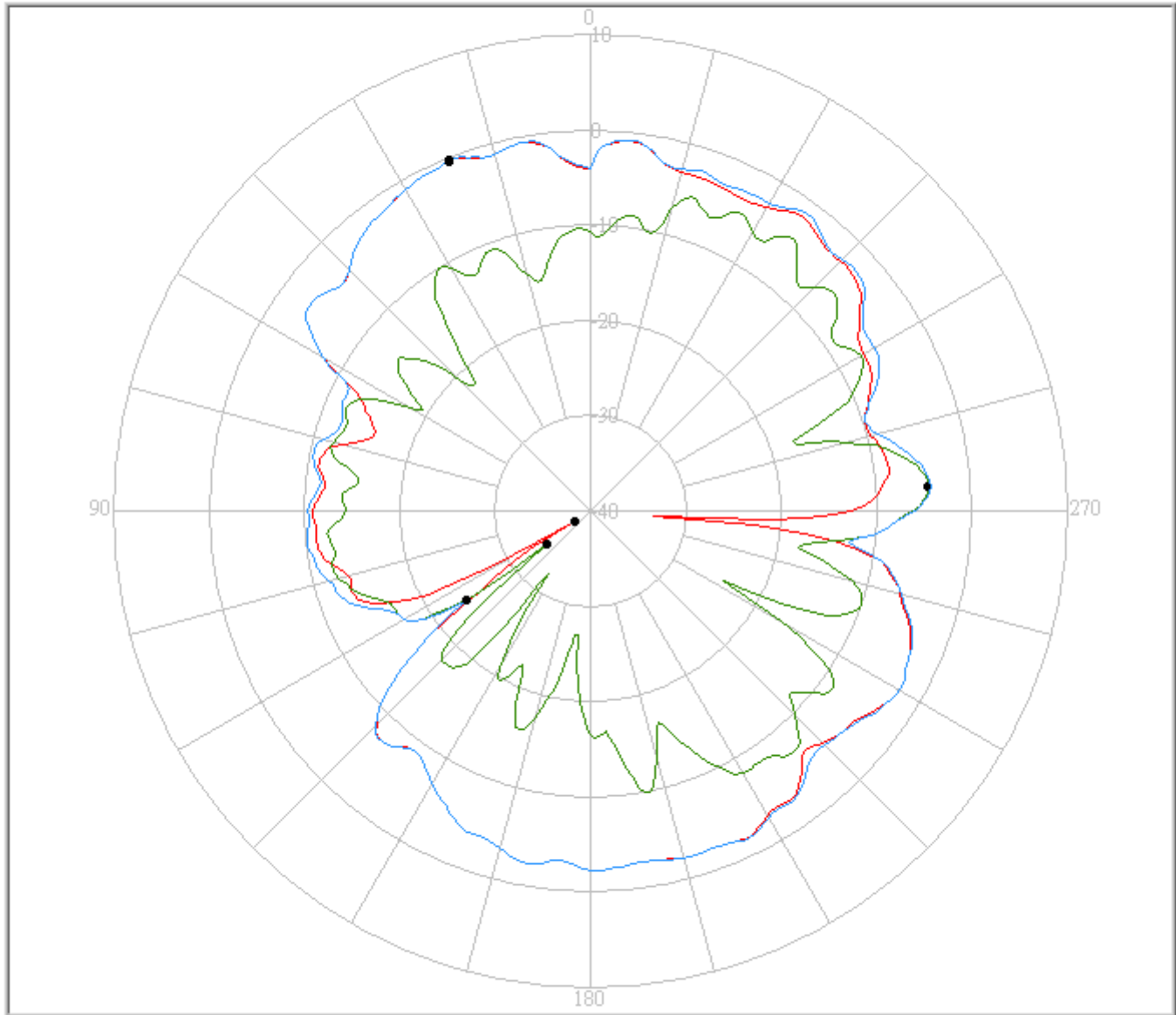
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5725.00	-0.41 / 22.00	-38.00 / 121.00	-4.53	Ver.	2006/9/7
2	XTB70	WLAN-R	5725.00	-4.48 / 274.00	-34.26 / 128.00	-10.65	Hor.	2006/9/7
3	XTB70	WLAN-R	5725.00	-0.39 / 22.00	-23.98 / 126.00	-4.25	V+H	2006/9/7

1. 5.785GHz



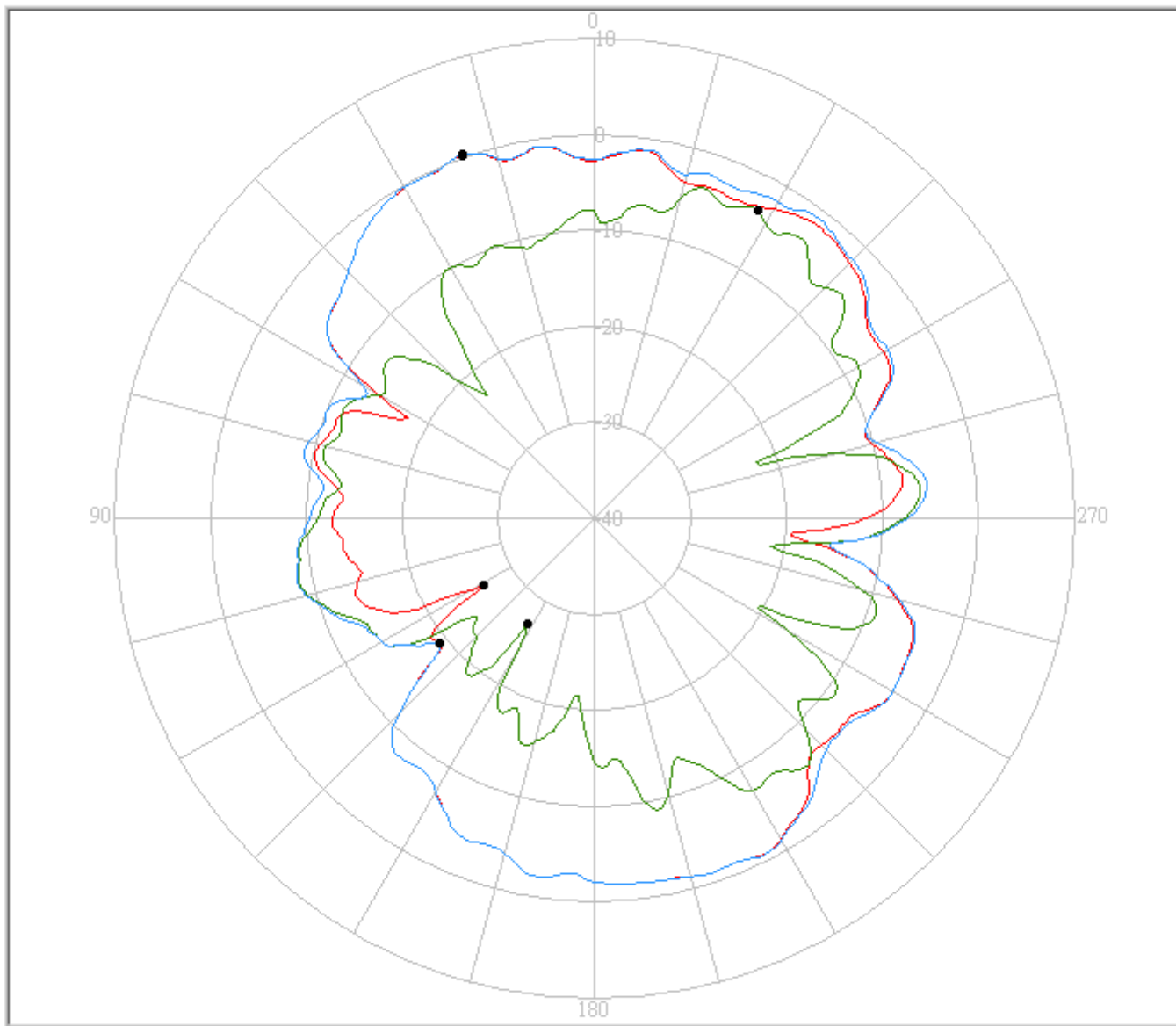
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5785.00	0.24 / 20.00	-26.62 / 121.00	-4.36	Ver.	2006/9/7
2	XTB70	WLAN-R	5785.00	-3.68 / 332.00	-26.97 / 148.00	-9.77	Hor.	2006/9/7
3	XTB70	WLAN-R	5785.00	0.26 / 20.00	-19.33 / 129.00	-4.01	V+H	2006/9/7

m. 5.85GHz



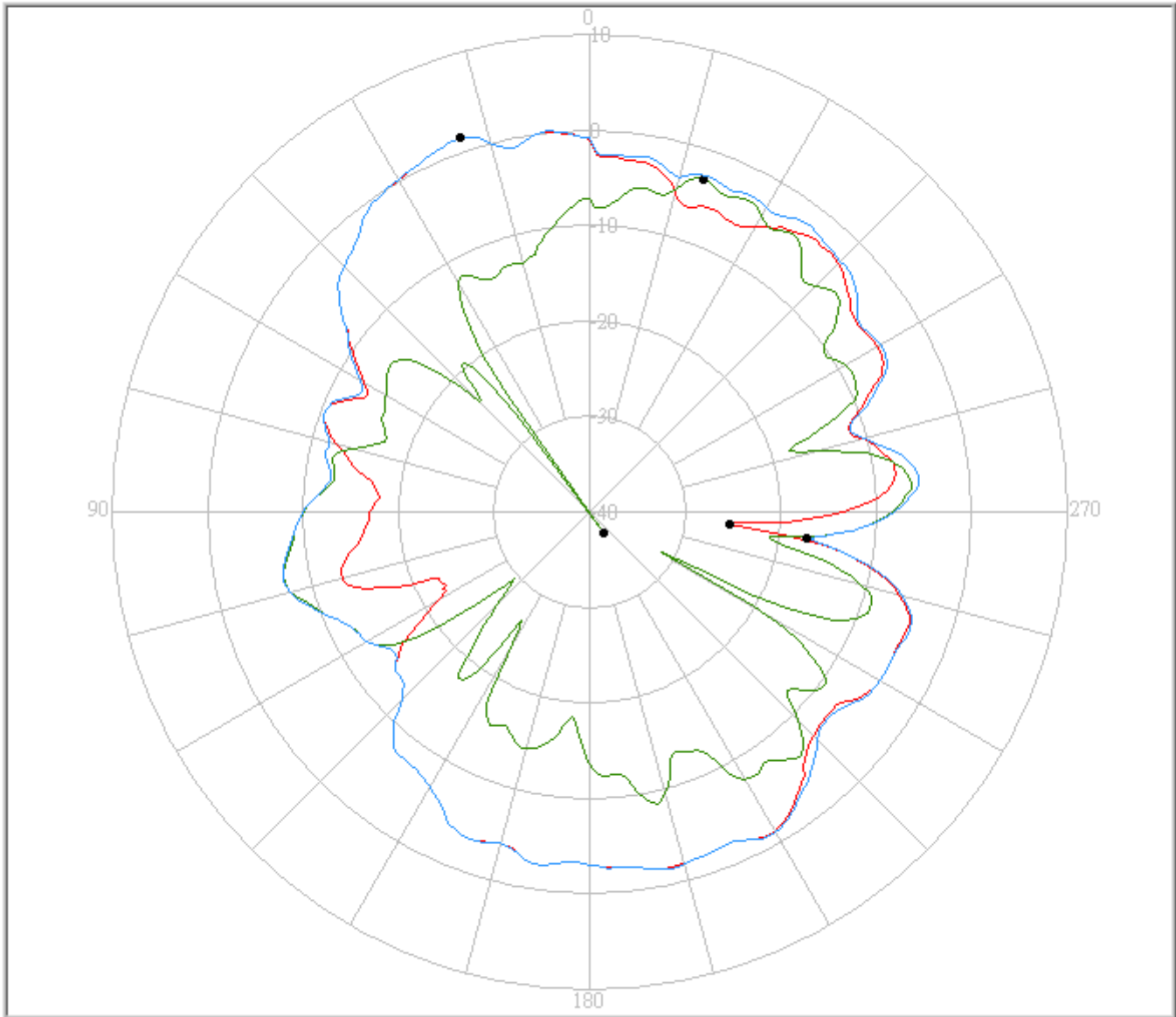
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5850.00	1.37 / 19.00	-25.25 / 265.00	-4.61	Ver.	2006/9/7
2	XTB70	WLAN-R	5850.00	-3.17 / 341.00	-42.64 / 36.00	-9.75	Hor.	2006/9/7
3	XTB70	WLAN-R	5850.00	1.37 / 19.00	-17.19 / 263.00	-4.14	V+H	2006/9/7

n. 5.875GHz



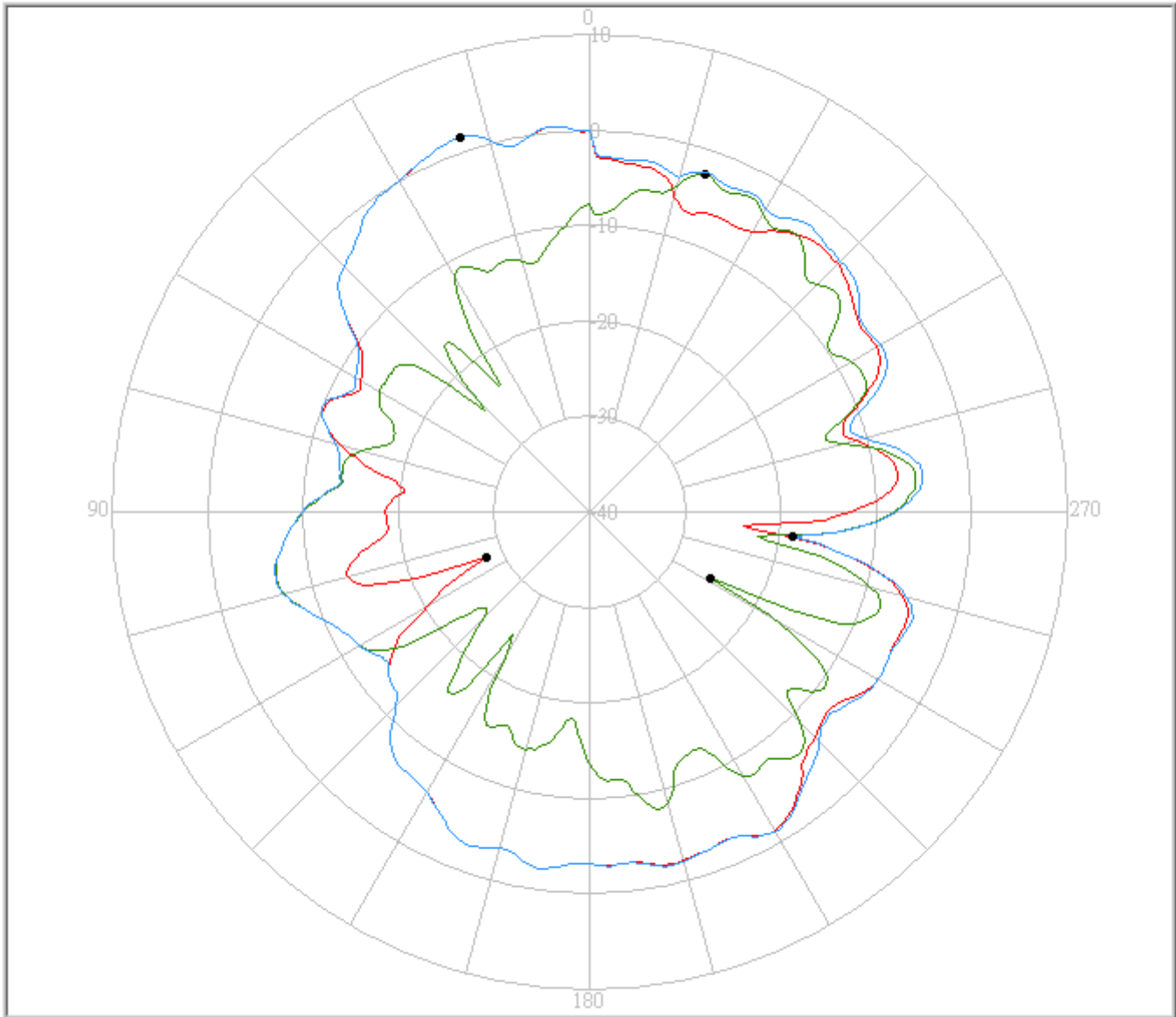
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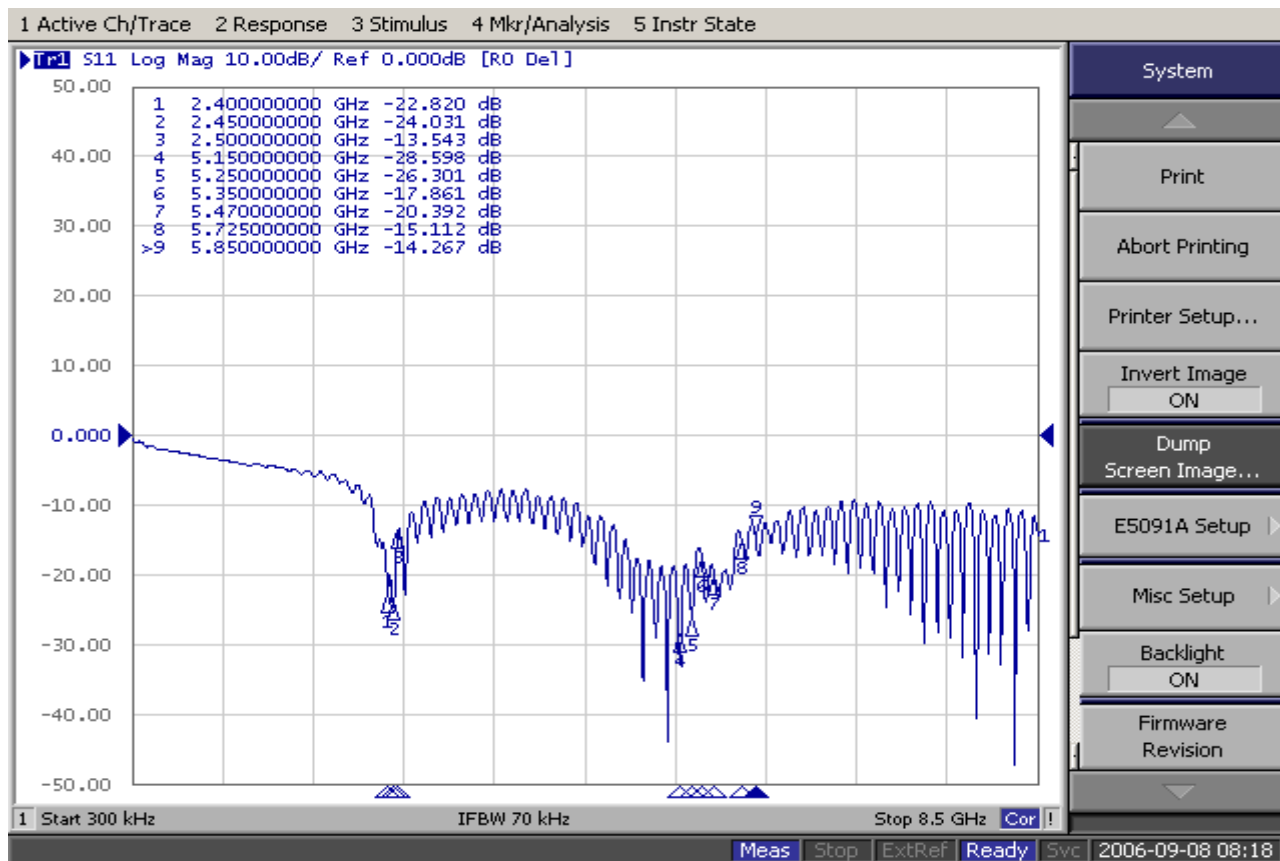
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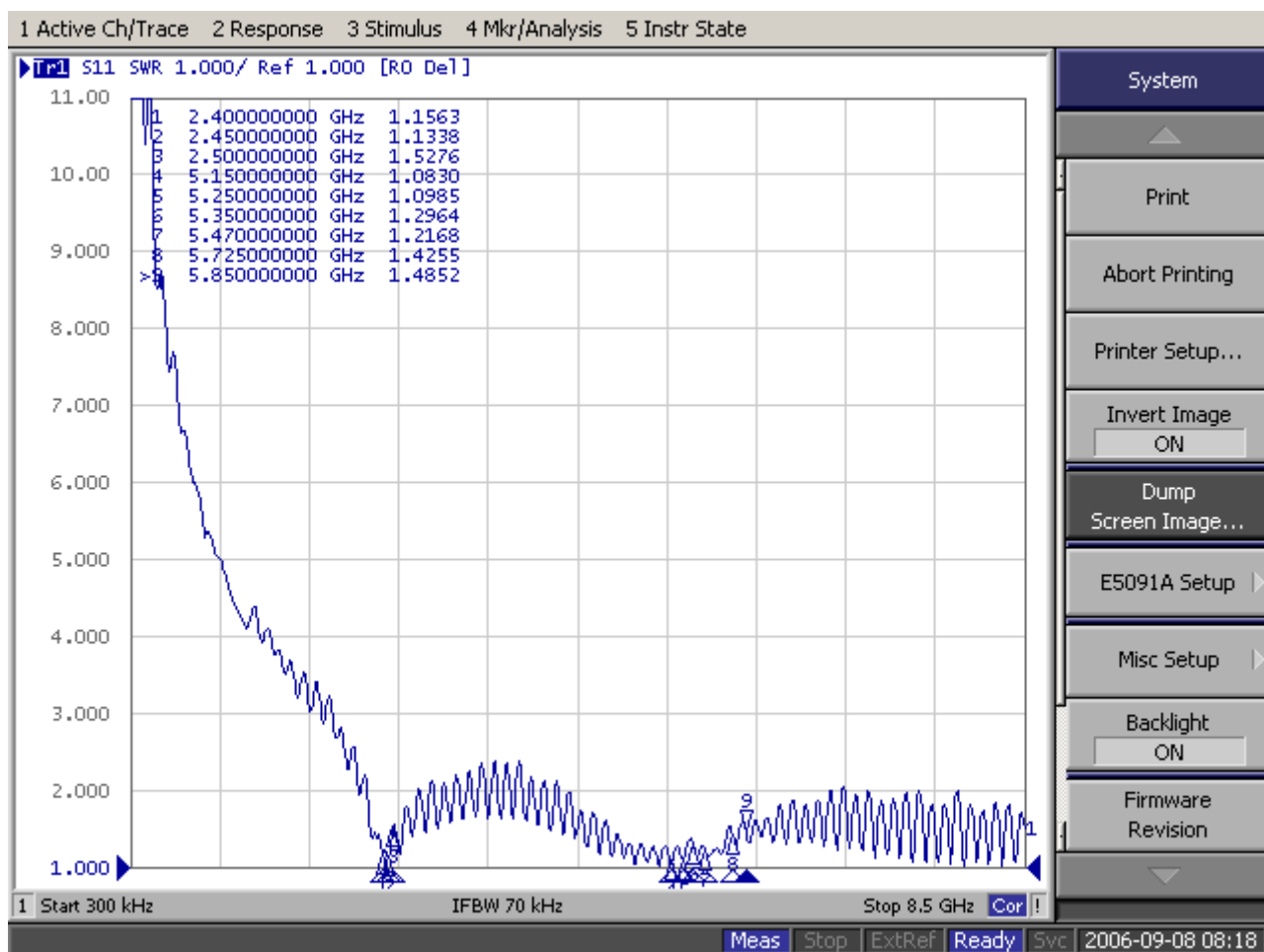
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-R	5875.00	1.45 / 19.00	-28.14 / 114.00	-4.62	Ver.	2006/9/7
2	XTB70	WLAN-R	5875.00	-2.70 / 341.00	-25.52 / 241.00	-9.44	Hor.	2006/9/7
3	XTB70	WLAN-R	5875.00	1.46 / 19.00	-18.51 / 263.00	-4.07	V+H	2006/9/7

5. WLAN.(Left)

2.4~2.5GHZ & 5.15~5.875GHZ / Return Loss



2.4~2.5GHZ & 5.15~5.875GHZ / VSWR



6. Gain & Pattern – WLAN. (Left)

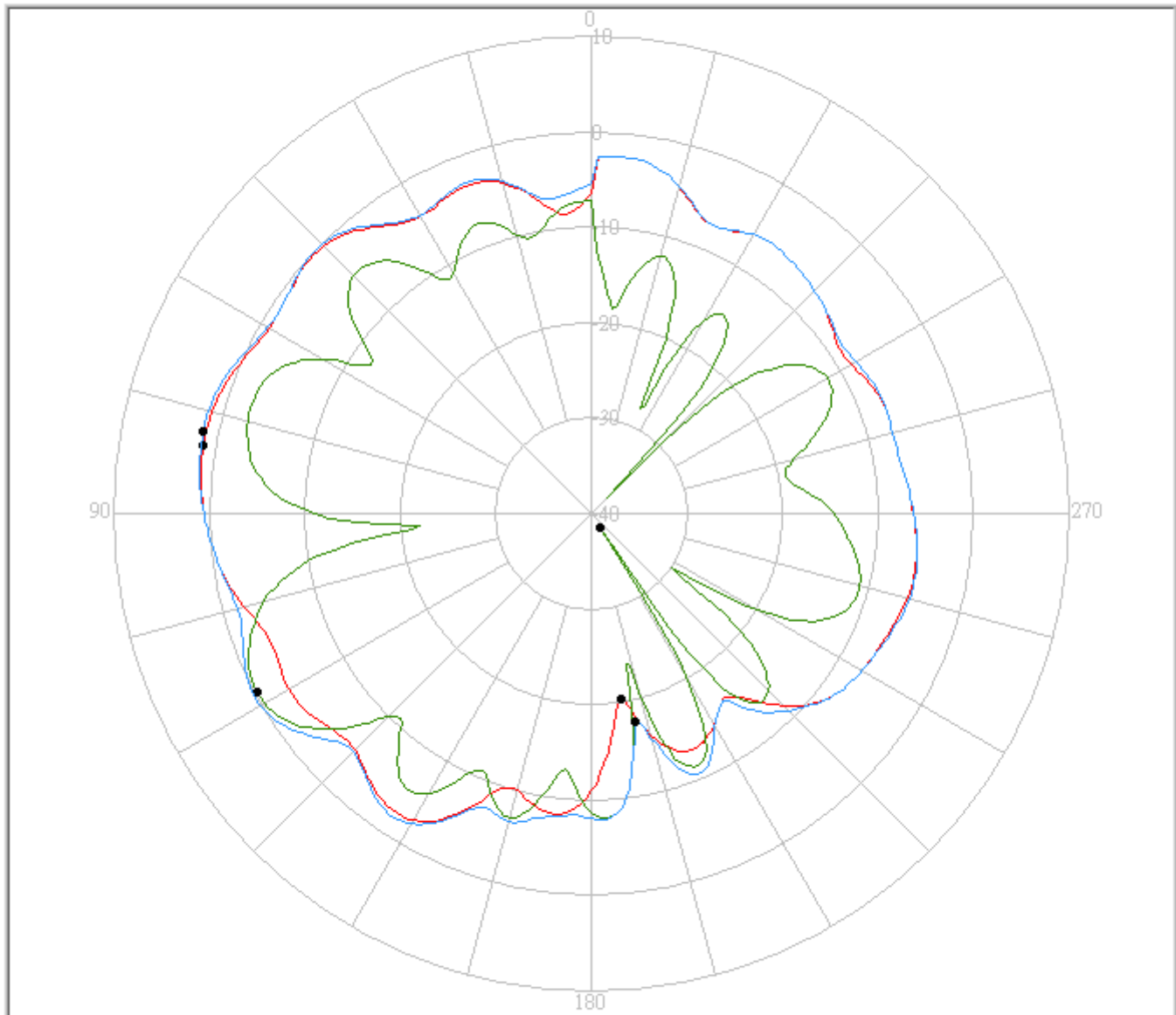
a. 2.4GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	2400.00	1.26 / 80.00	-20.31 / 189.00	-4.17	Ver.	2006/9/7
2	XTB70	WLAN-L	2400.00	-0.34 / 118.00	-38.34 / 213.00	-8.20	Hor.	2006/9/7
3	XTB70	WLAN-L	2400.00	1.50 / 78.00	-17.63 / 192.00	-3.63	V+H	2006/9/7

b. 2.45GHz



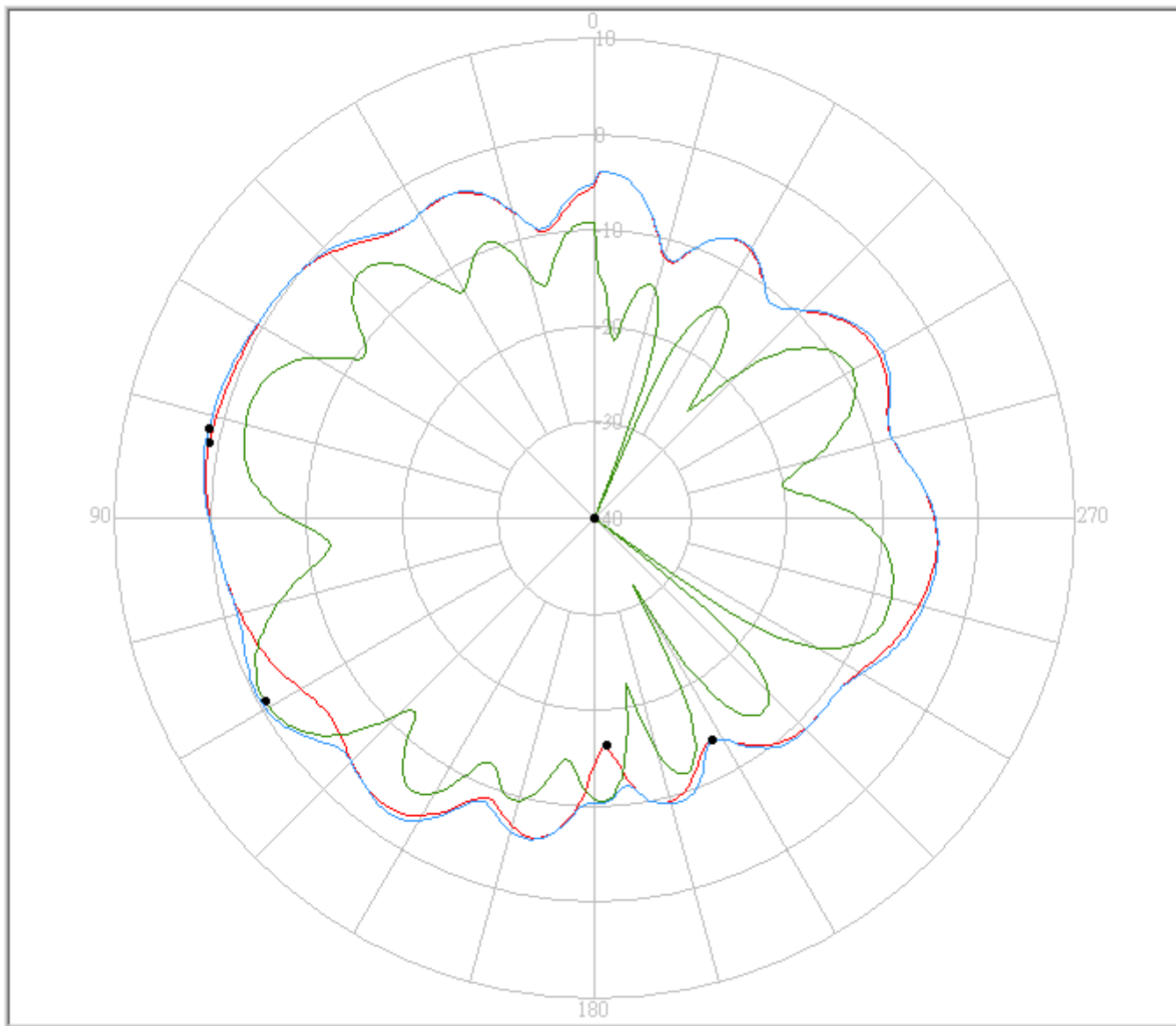
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	2450.00	0.86 / 79.00	-16.36 / 183.00	-4.27	Ver.	2006/9/7
2	XTB70	WLAN-L	2450.00	-0.76 / 119.00	-42.73 / 233.00	-8.29	Hor.	2006/9/7
3	XTB70	WLAN-L	2450.00	1.24 / 77.00	-13.84 / 208.00	-3.78	V+H	2006/9/7

c. 2.5GHz



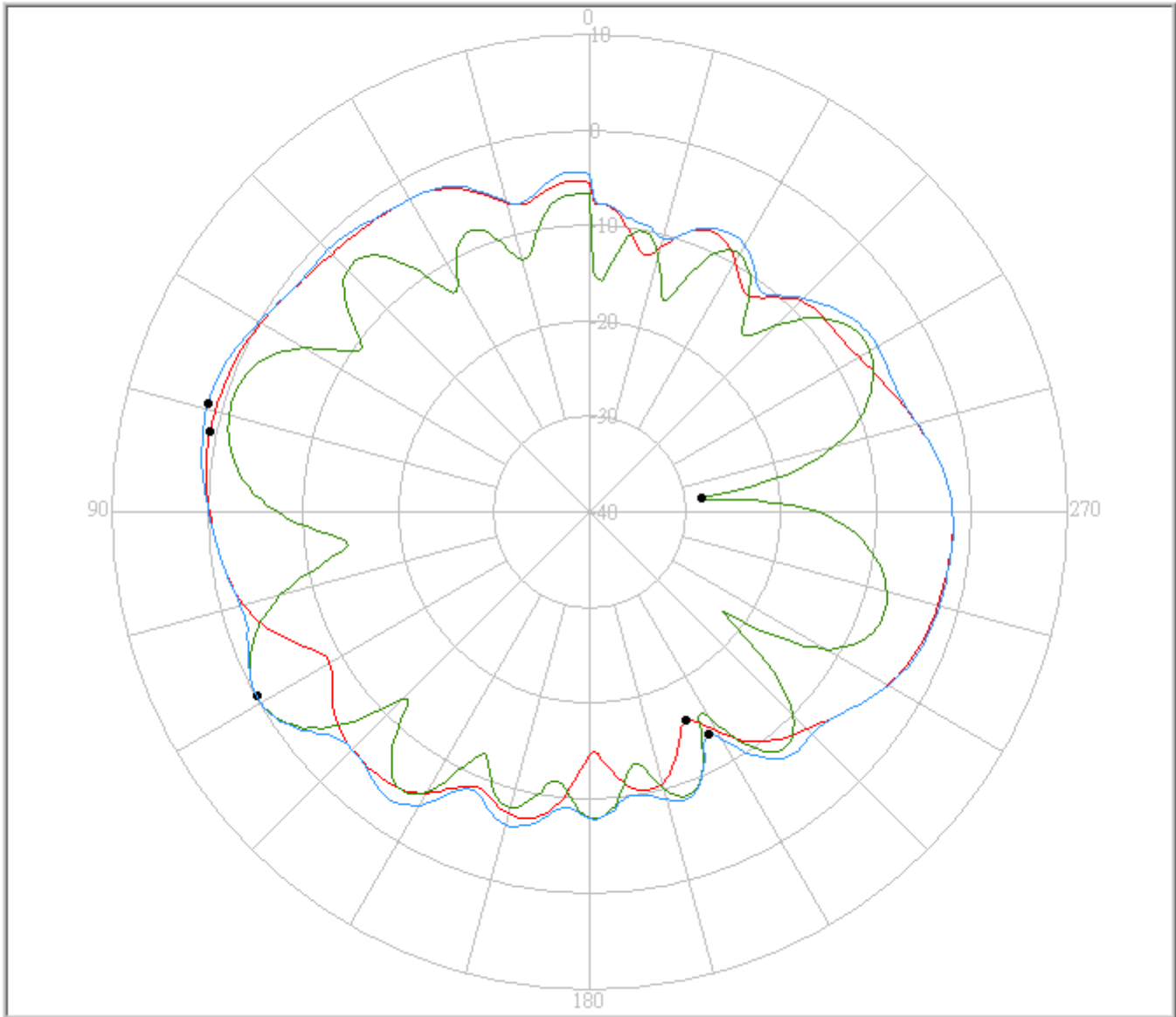
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Antenna Pattern Measurement

4F, No. 108-1, Min Chuan Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C. Tel:886-2-2218-2189,
Fax:886-2-2218-5760



Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	2500.00	0.62 / 78.00	-15.99 / 205.00	-4.24	Ver.	2006/9/7
2	XTB70	WLAN-L	2500.00	-0.21 / 119.00	-28.11 / 277.00	-7.10	Hor.	2006/9/7
3	XTB70	WLAN-L	2500.00	1.48 / 74.00	-13.61 / 208.00	-3.43	V+H	2006/9/7

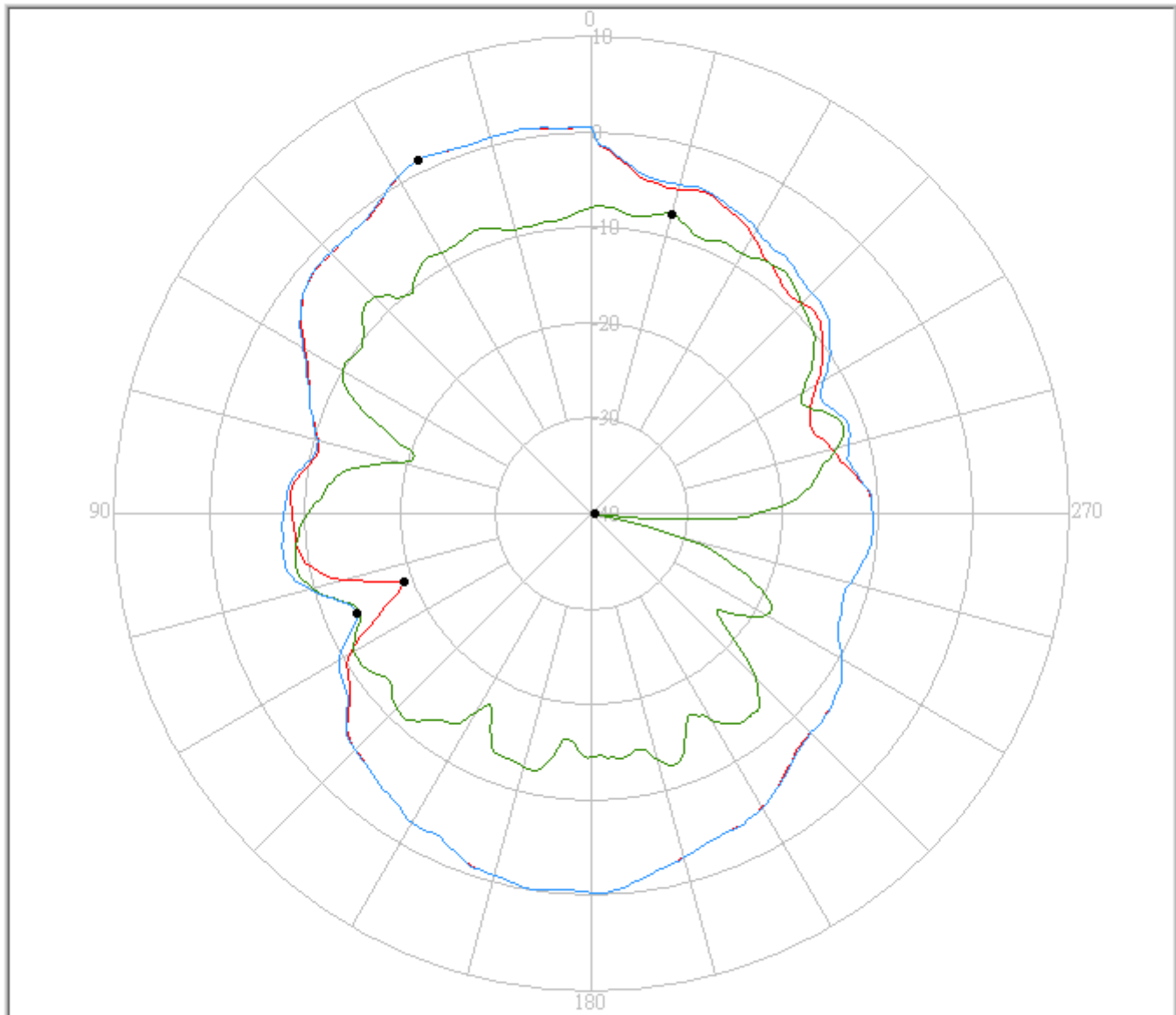
d. 4.9GHZ



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	4900.00	1.16 / 26.00	-19.21 / 110.00	-4.14	Ver.	2006/9/7
2	XTB70	WLAN-L	4900.00	-7.54 / 345.00	-39.62 / 260.00	-11.38	Hor.	2006/9/7
3	XTB70	WLAN-L	4900.00	1.19 / 26.00	-13.35 / 113.00	-3.97	V+H	2006/9/7

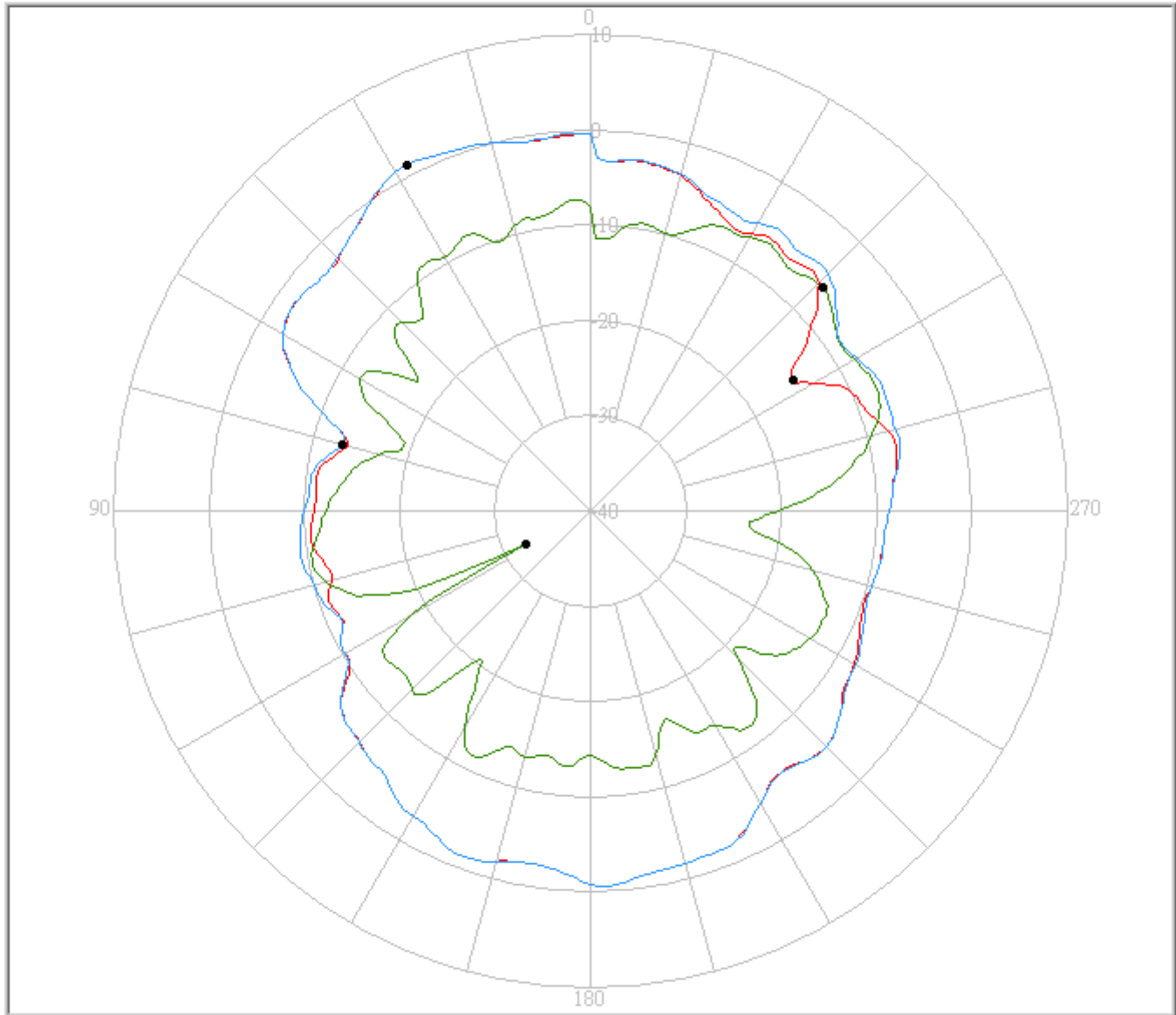
e. 5.075GHZ



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5075.00	1.08 / 28.00	-14.77 / 303.00	-4.16	Ver.	2006/9/7
2	XTB70	WLAN-L	5075.00	-6.24 / 314.00	-32.47 / 117.00	-11.20	Hor.	2006/9/7
3	XTB70	WLAN-L	5075.00	1.10 / 28.00	-13.16 / 75.00	-3.95	V+H	2006/9/7

f. 5.15GHZ



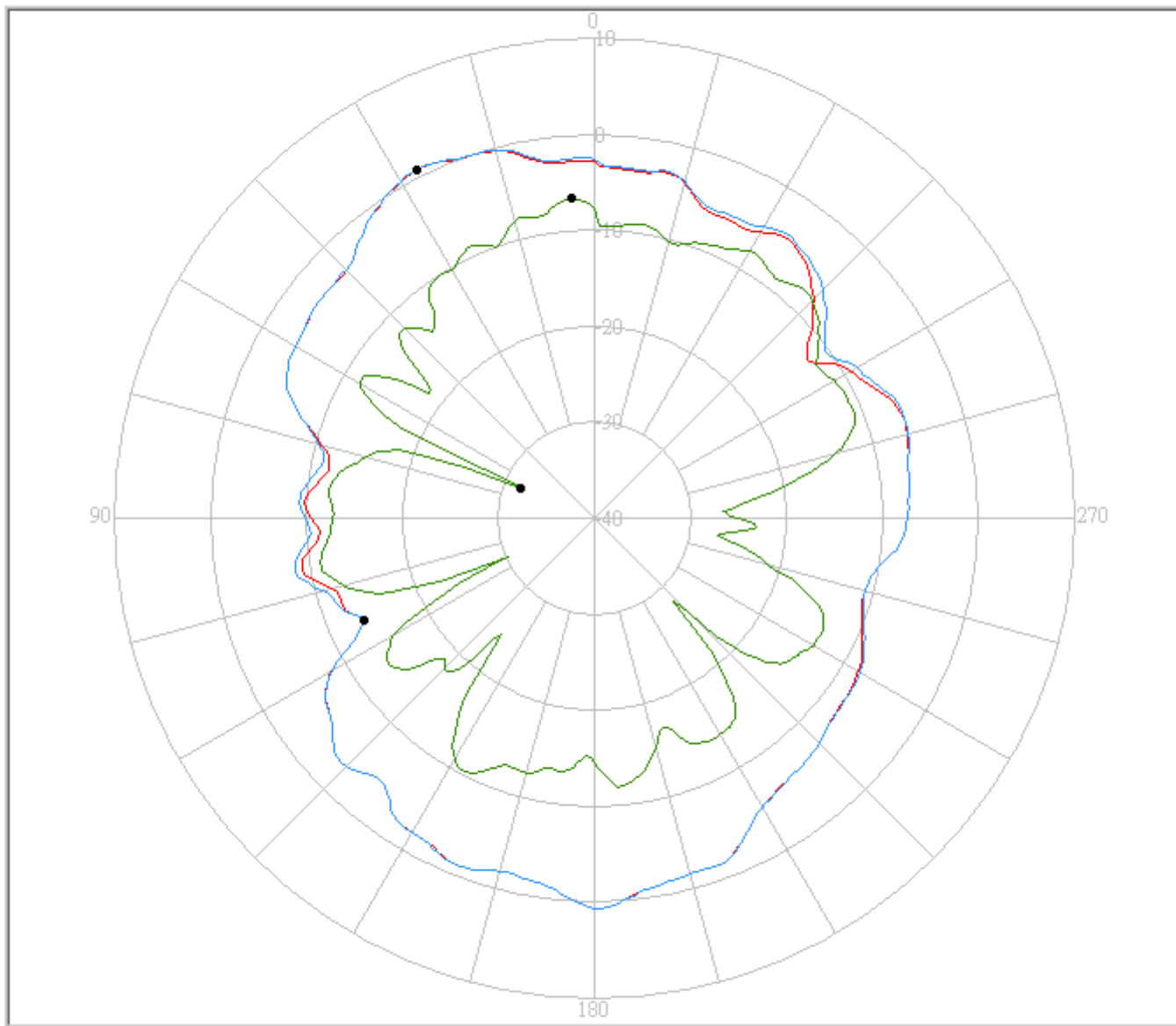
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5150.00	0.72 / 27.00	-13.81 / 114.00	-4.17	Ver.	2006/9/7
2	XTB70	WLAN-L	5150.00	-6.66 / 4.00	-31.74 / 68.00	-12.12	Hor.	2006/9/7
3	XTB70	WLAN-L	5150.00	0.74 / 27.00	-13.81 / 114.00	-4.06	V+H	2006/9/7

g. 5.25GHz



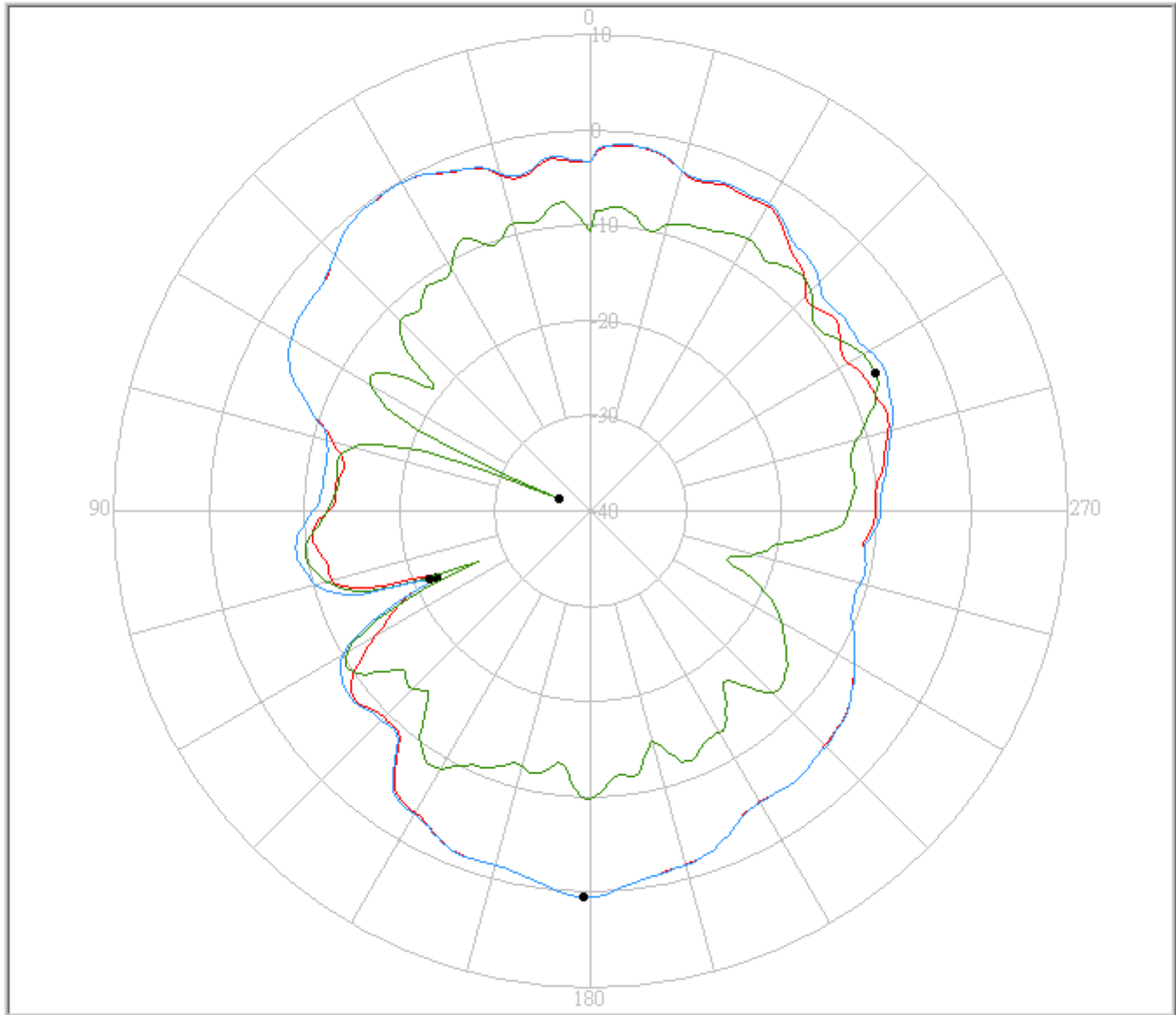
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5250.00	0.55 / 179.00	-22.41 / 113.00	-4.35	Ver.	2006/9/7
2	XTB70	WLAN-L	5250.00	-6.79 / 296.00	-36.39 / 68.00	-10.96	Hor.	2006/9/7
3	XTB70	WLAN-L	5250.00	0.57 / 179.00	-21.76 / 113.00	-4.15	V+H	2006/9/7

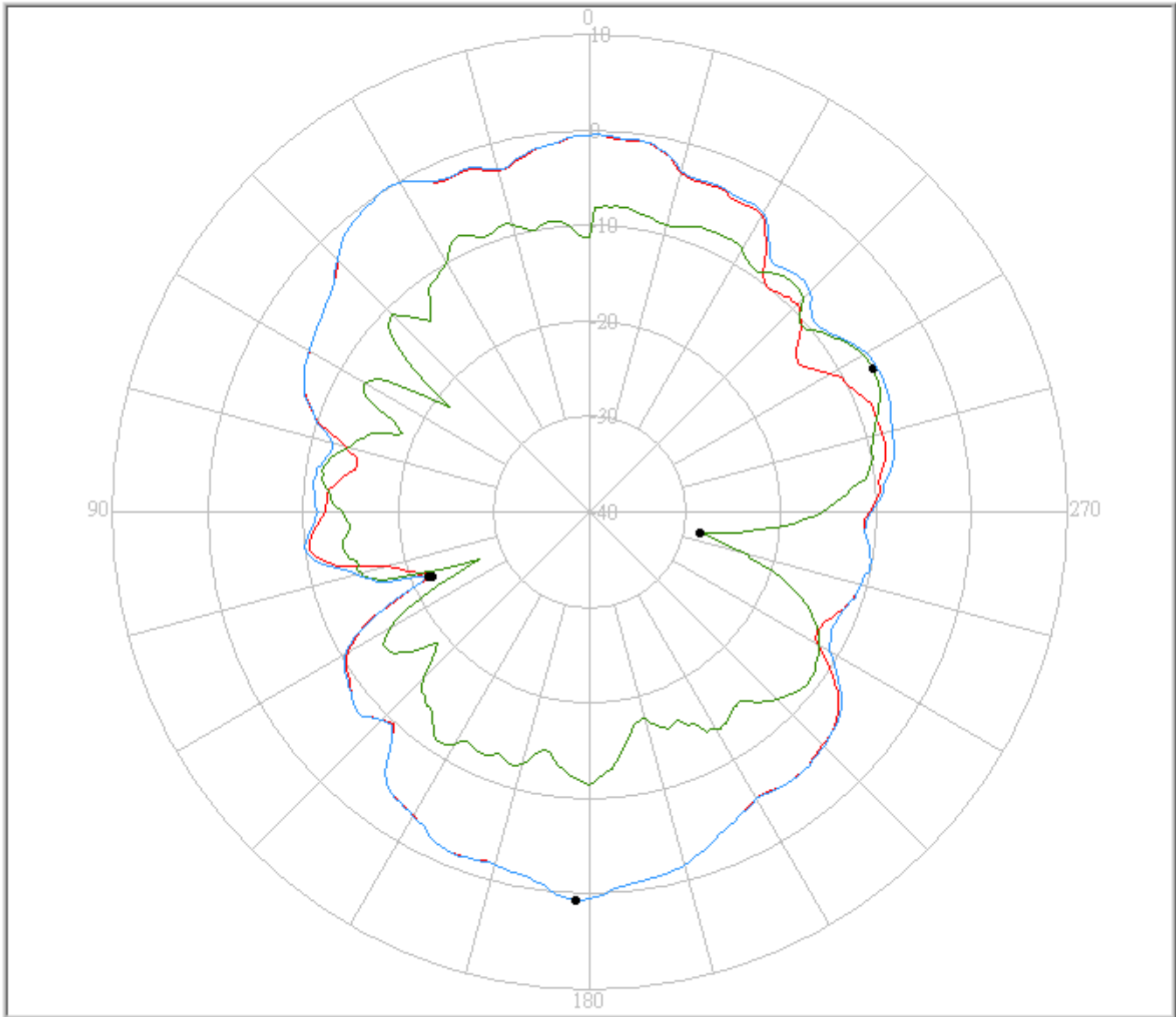
h. 5.35GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5350.00	0.73 / 178.00	-22.15 / 112.00	-4.56	Ver.	2006/9/7
2	XTB70	WLAN-L	5350.00	-6.78 / 297.00	-28.16 / 259.00	-11.47	Hor.	2006/9/7
3	XTB70	WLAN-L	5350.00	0.73 / 178.00	-21.74 / 112.00	-4.35	V+H	2006/9/7

i. 5.47GHz



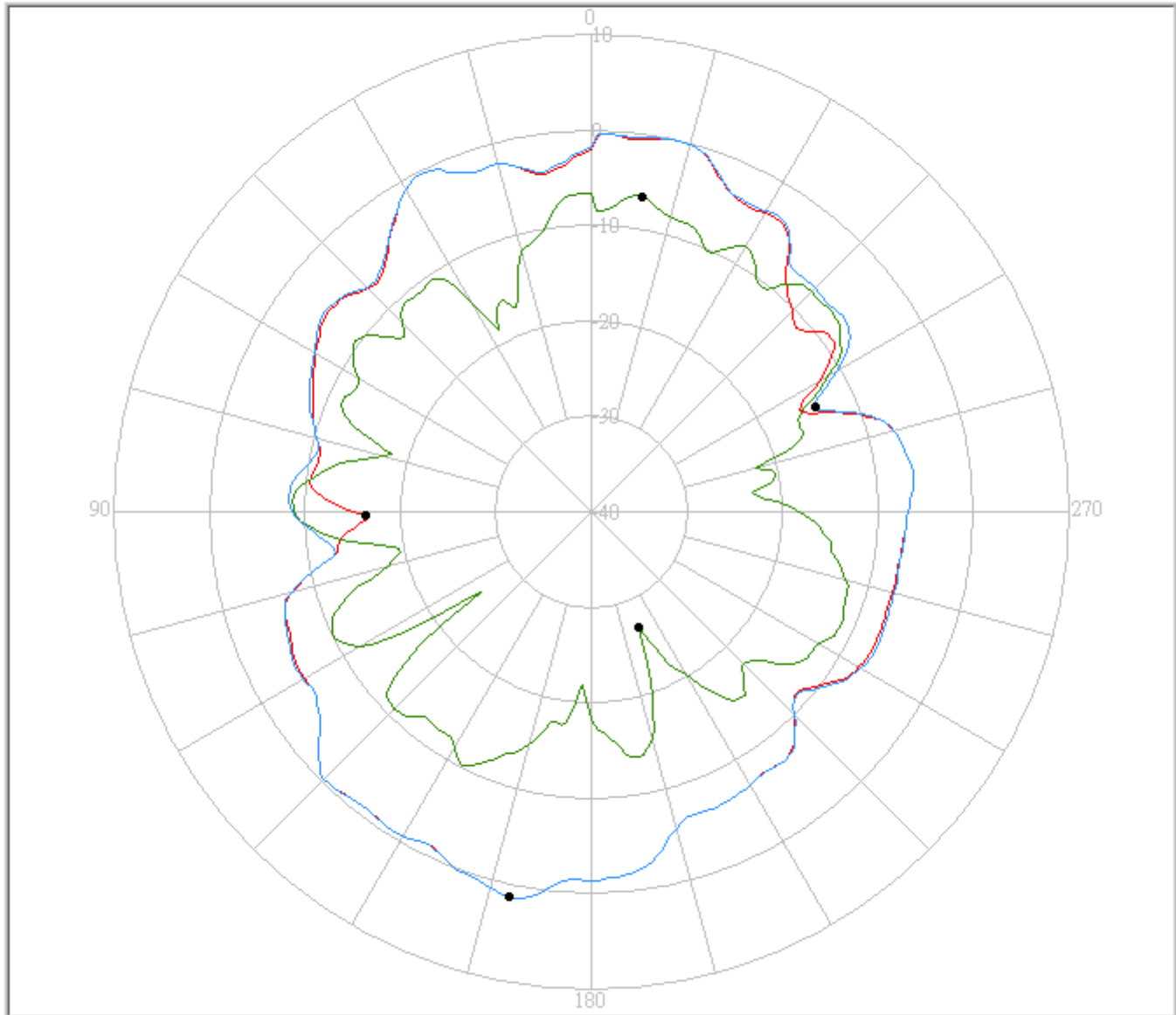
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5470.00	1.28 / 168.00	-16.41 / 91.00	-4.16	Ver.	2006/9/7
2	XTB70	WLAN-L	5470.00	-6.55 / 351.00	-26.96 / 202.00	-11.73	Hor.	2006/9/7
3	XTB70	WLAN-L	5470.00	1.28 / 168.00	-14.06 / 295.00	-3.99	V+H	2006/9/7

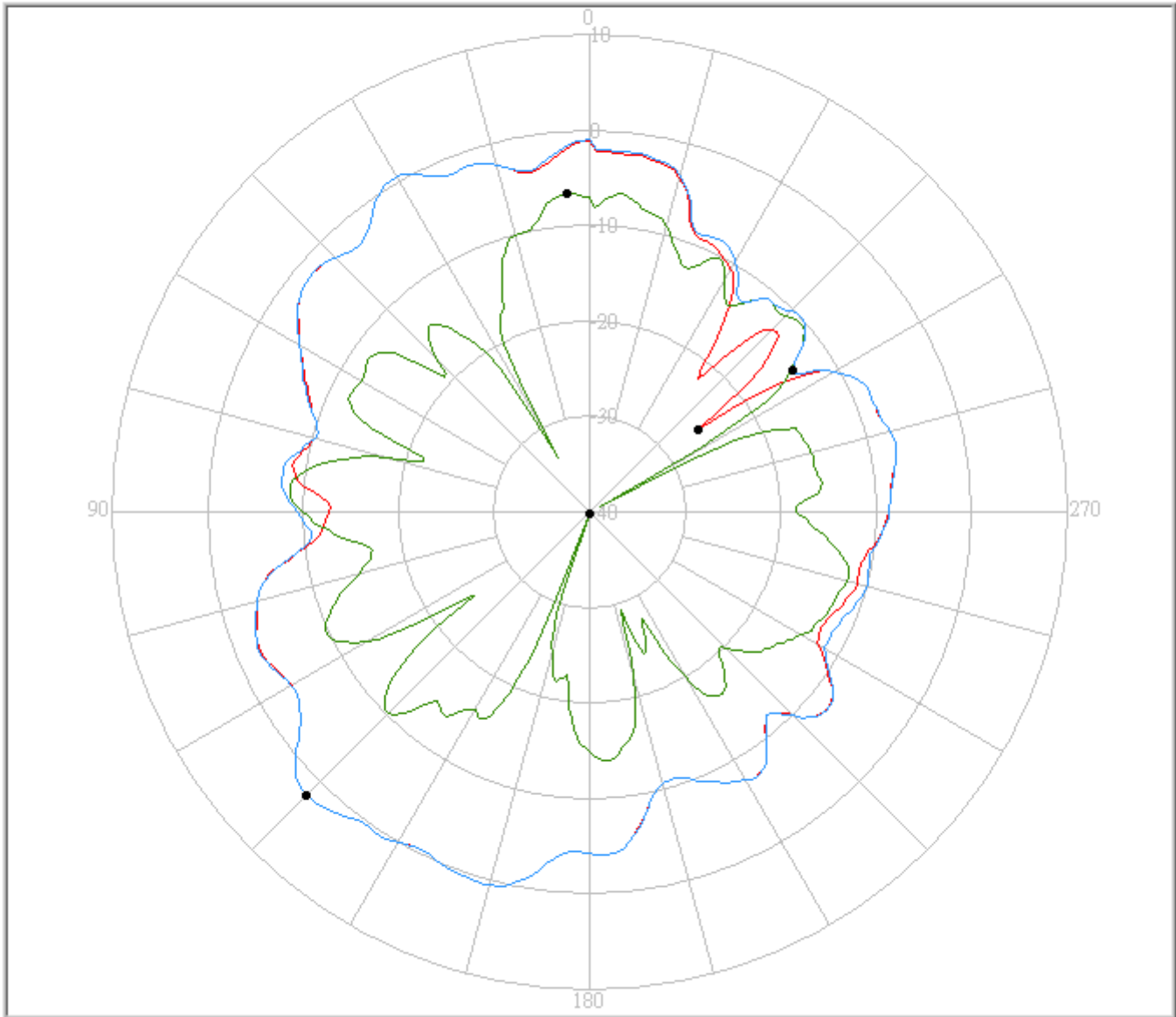
j. 5.6GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5600.00	1.86 / 135.00	-25.71 / 307.00	-4.20	Ver.	2006/9/7
2	XTB70	WLAN-L	5600.00	-6.55 / 4.00	-39.81 / 160.00	-13.01	Hor.	2006/9/7
3	XTB70	WLAN-L	5600.00	1.87 / 135.00	-14.10 / 305.00	-4.08	V+H	2006/9/7

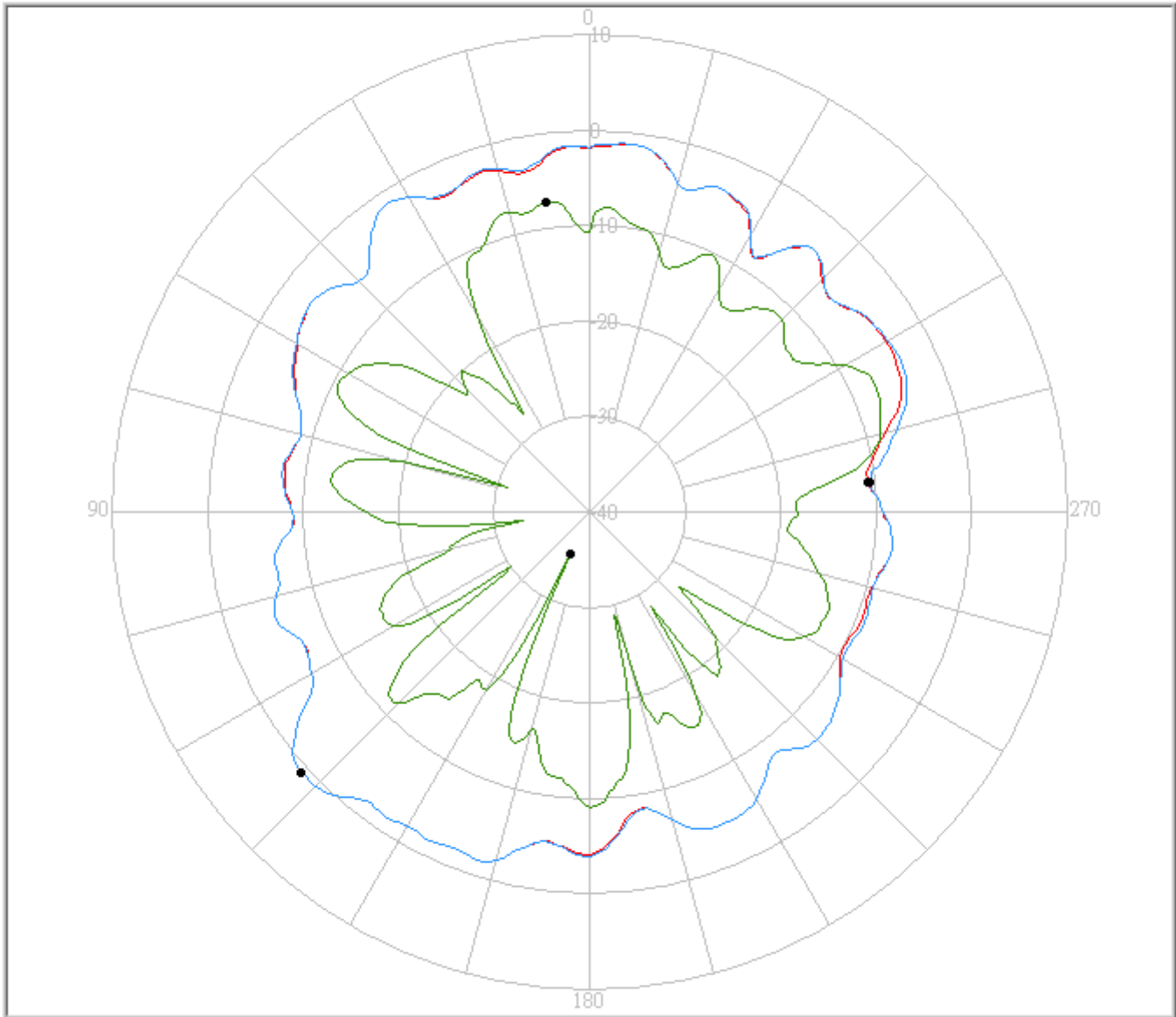
k. 5.725GHz



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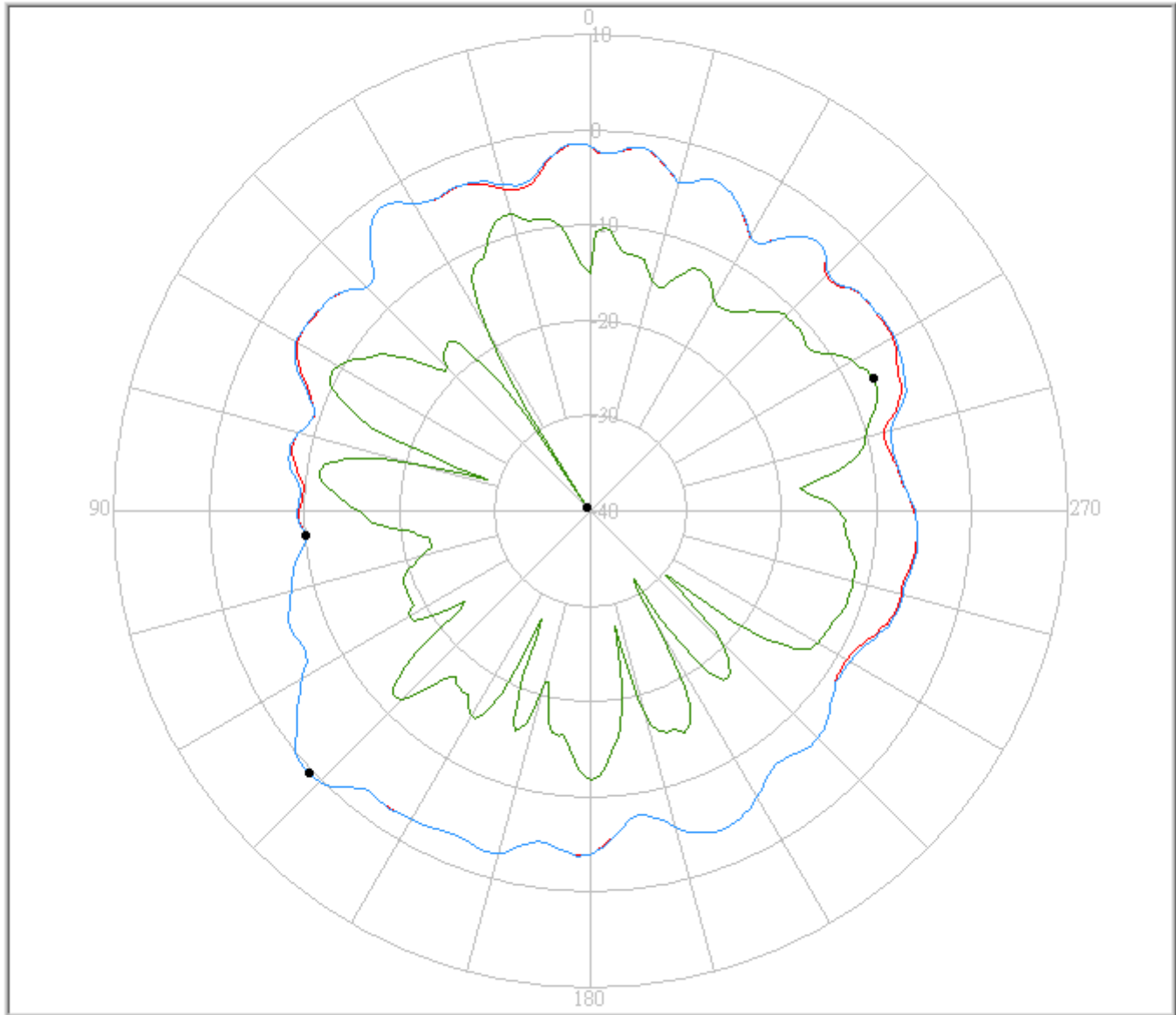
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5725.00	0.69 / 132.00	-10.73 / 276.00	-4.52	Ver.	2006/9/7
2	XTB70	WLAN-L	5725.00	-7.21 / 8.00	-35.11 / 155.00	-12.87	Hor.	2006/9/7
3	XTB70	WLAN-L	5725.00	0.70 / 132.00	-10.54 / 276.00	-4.43	V+H	2006/9/7

1. 5.785GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5785.00	0.38 / 133.00	-10.08 / 95.00	-4.55	Ver.	2006/9/7
2	XTB70	WLAN-L	5785.00	-7.25 / 295.00	-39.48 / 33.00	-13.25	Hor.	2006/9/7
3	XTB70	WLAN-L	5785.00	0.39 / 133.00	-10.05 / 95.00	-4.47	V+H	2006/9/7

m. 5.85GHz



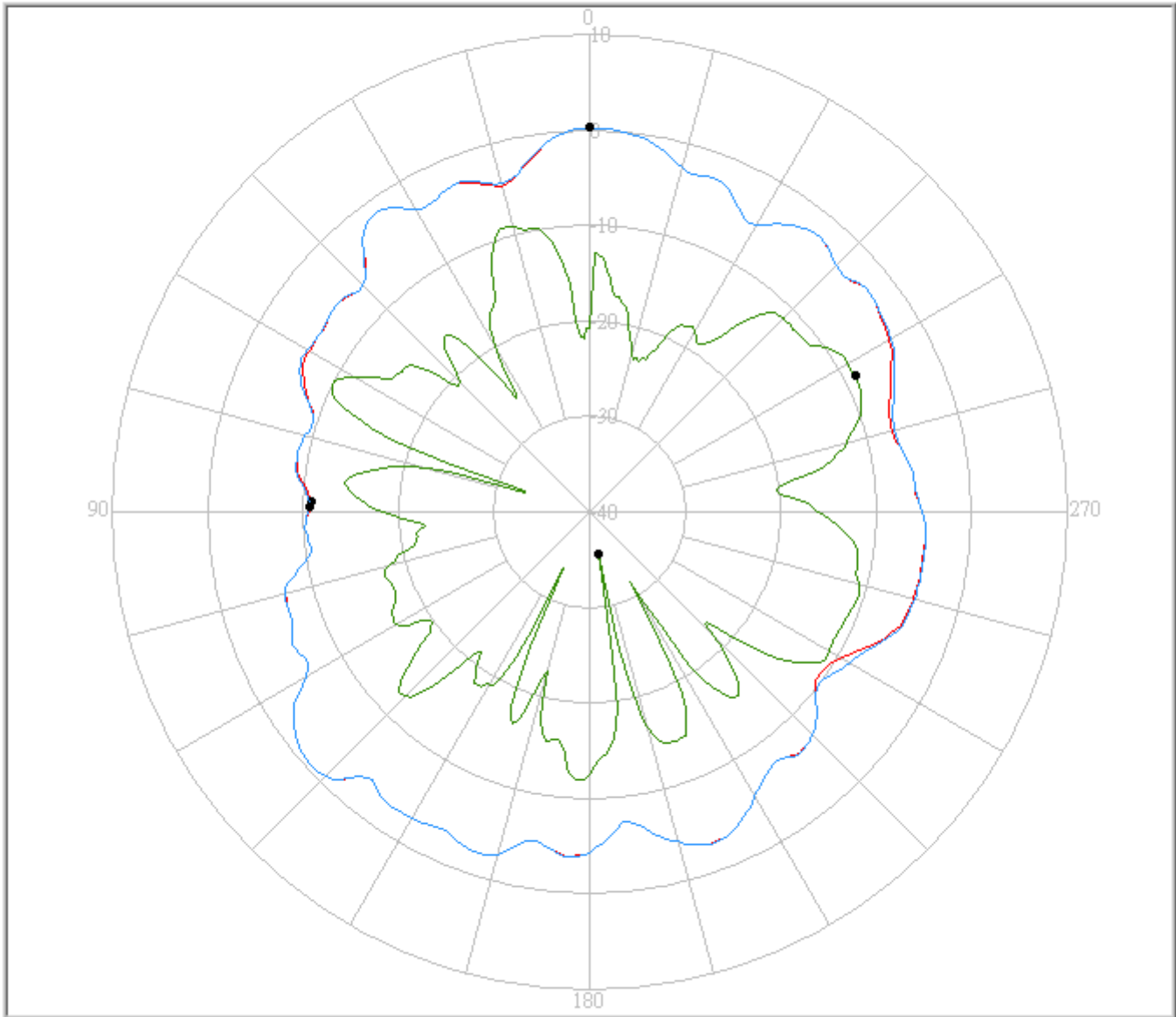
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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5850.00	0.21 / 0.00	-10.84 / 88.00	-4.28	Ver.	2006/9/7
2	XTB70	WLAN-L	5850.00	-8.73 / 297.00	-35.50 / 191.00	-14.31	Hor.	2006/9/7
3	XTB70	WLAN-L	5850.00	0.21 / 0.00	-10.71 / 89.00	-4.23	V+H	2006/9/7

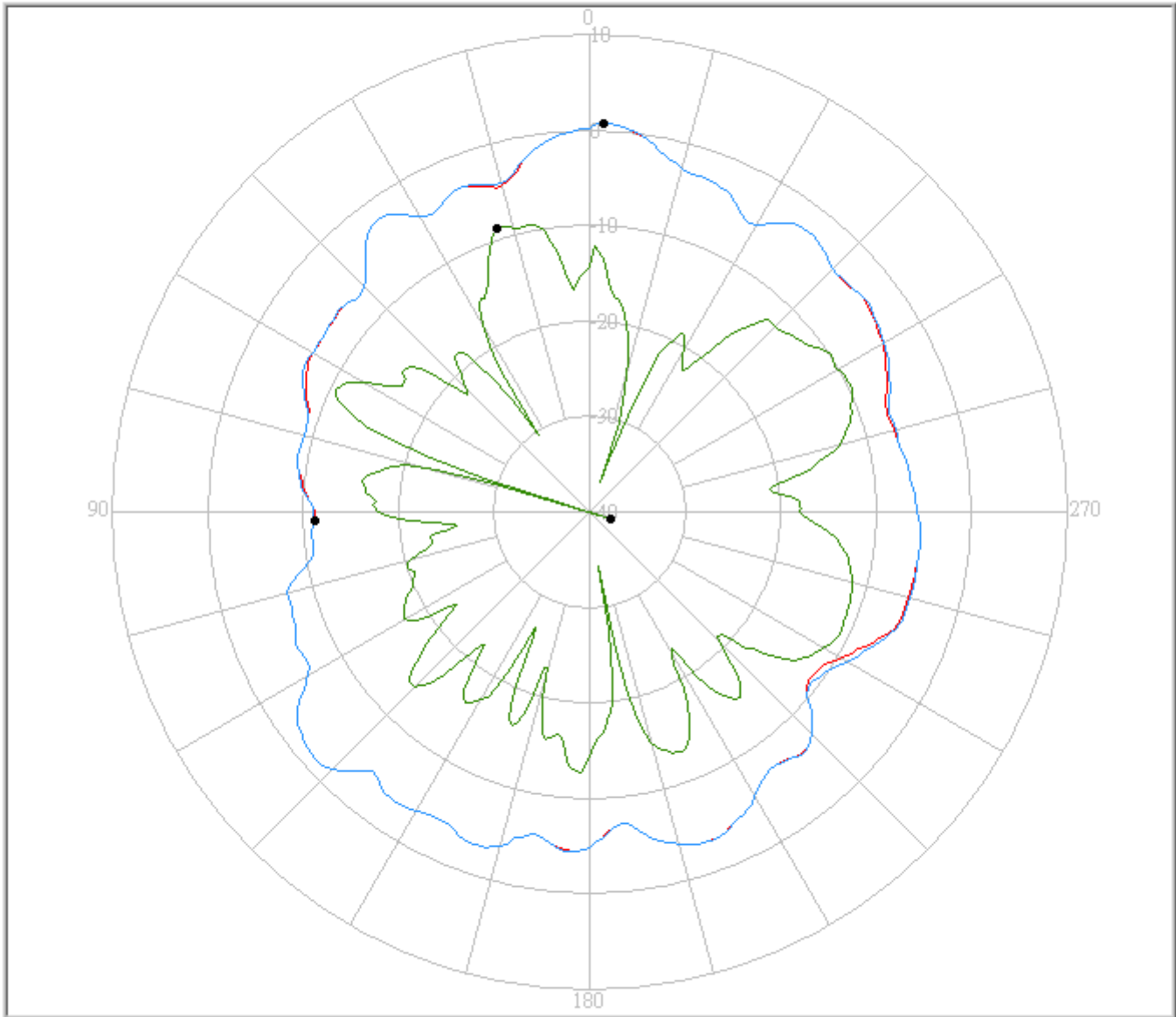
n. 5.875GHz



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Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	XTB70	WLAN-L	5875.00	0.67 / 358.00	-11.27 / 92.00	-4.61	Ver.	2006/9/7
2	XTB70	WLAN-L	5875.00	-8.78 / 18.00	-42.26 / 73.00	-14.80	Hor.	2006/9/7
3	XTB70	WLAN-L	5875.00	0.68 / 358.00	-11.23 / 92.00	-4.57	V+H	2006/9/7