

Panasonic Corporation

1-15, MATSUO-CHO, KADOMA, OSAKA, 571-8504 JAPAN

Antenna Specification (WiFi)

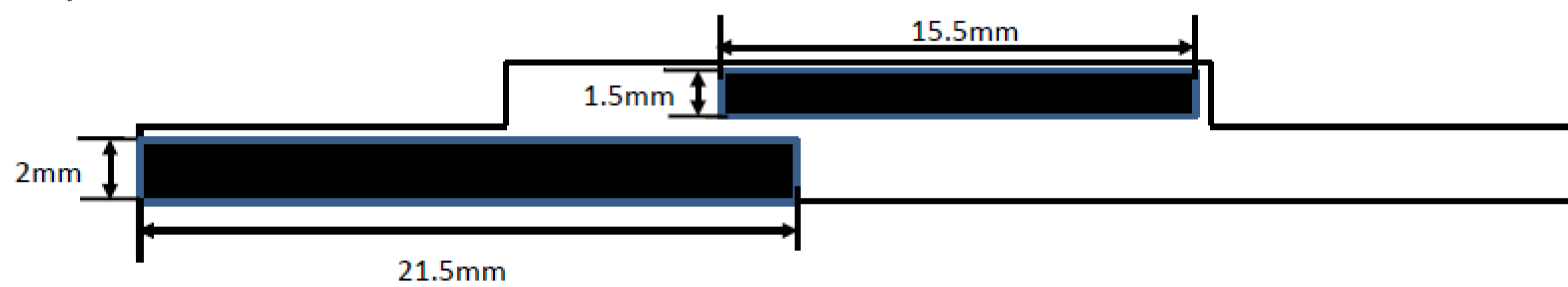
Specifications

Summary

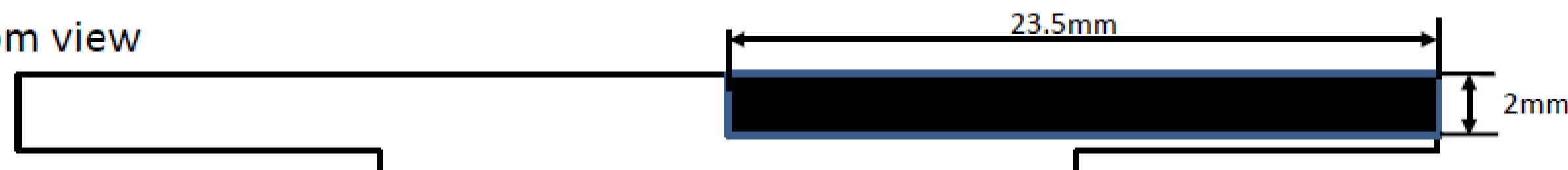
Item	SPEC								
Antenna type	Dipole antenna								
Antenna Model	N/A								
Antenna Trademark	N/A								
Antenna Manufacture	SANSEI ELECTRIC CO., Ltd.								
Center Frequency	Horizontal				Vertical				
		2400MHz	2450MHz	2500MHz		2400MHz	2450MHz	2500MHz	
	Antenna1	-3.58	-6.55	-12.69		-1.96	-2.24	-1.77	
	Antenna2	-3.96	-4.61	-5.46		-0.55	-1.59	-1.57	
MAX Gain	-0.55 dBi								
Center Frequency	Horizontal				Vertical				
		5180MHz	5300MHz	5500MHz	5750MHz	5180MHz	5300MHz	5500MHz	5750MHz
	Antenna1	-14.52	-8.59	-4.60	-9.36	-1.01	-1.75	-2.26	-2.37
	Antenna2	-3.45	-3.08	-5.77	-5.97	-0.82	-0.07	-0.95	-0.63
MAX Gain	-0.07 dBi								
Polarization	Horizontal and Vertical								
Azimuth Beam Pattern	Omni-Directional								
Impedance	50ohm								
Antenna Length	65mm								
Manufacture	SANSEI ELECTRIC CO., Ltd								

Top view

Top view



Bottom view



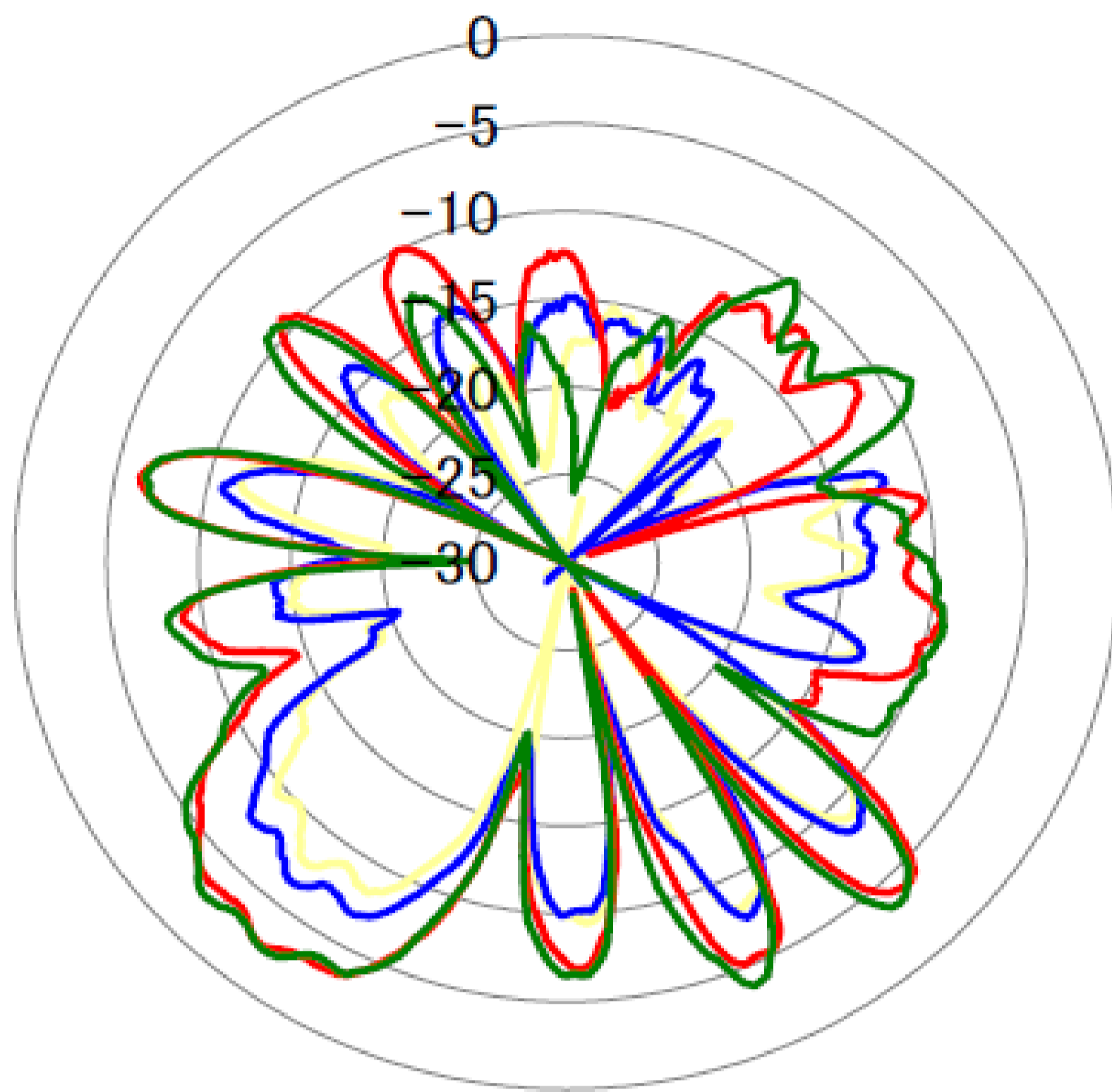
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Horizontal

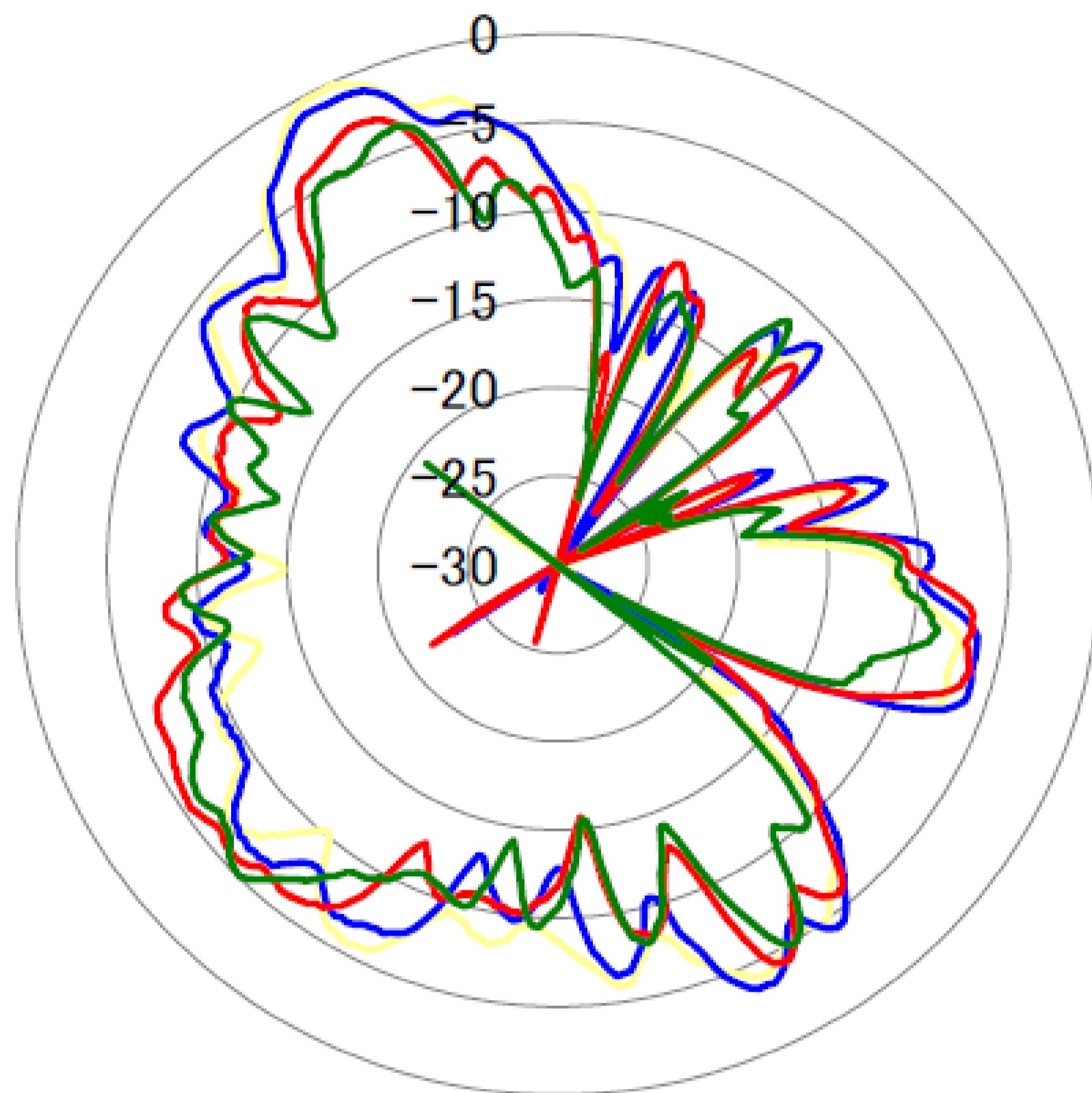
5GHz

Antenna 1



Antenna 1	Max.			
Frequency[MHz]	5180	5300	5500	5750
Gain[dBi]	-14.52	-8.59	-4.60	-9.36

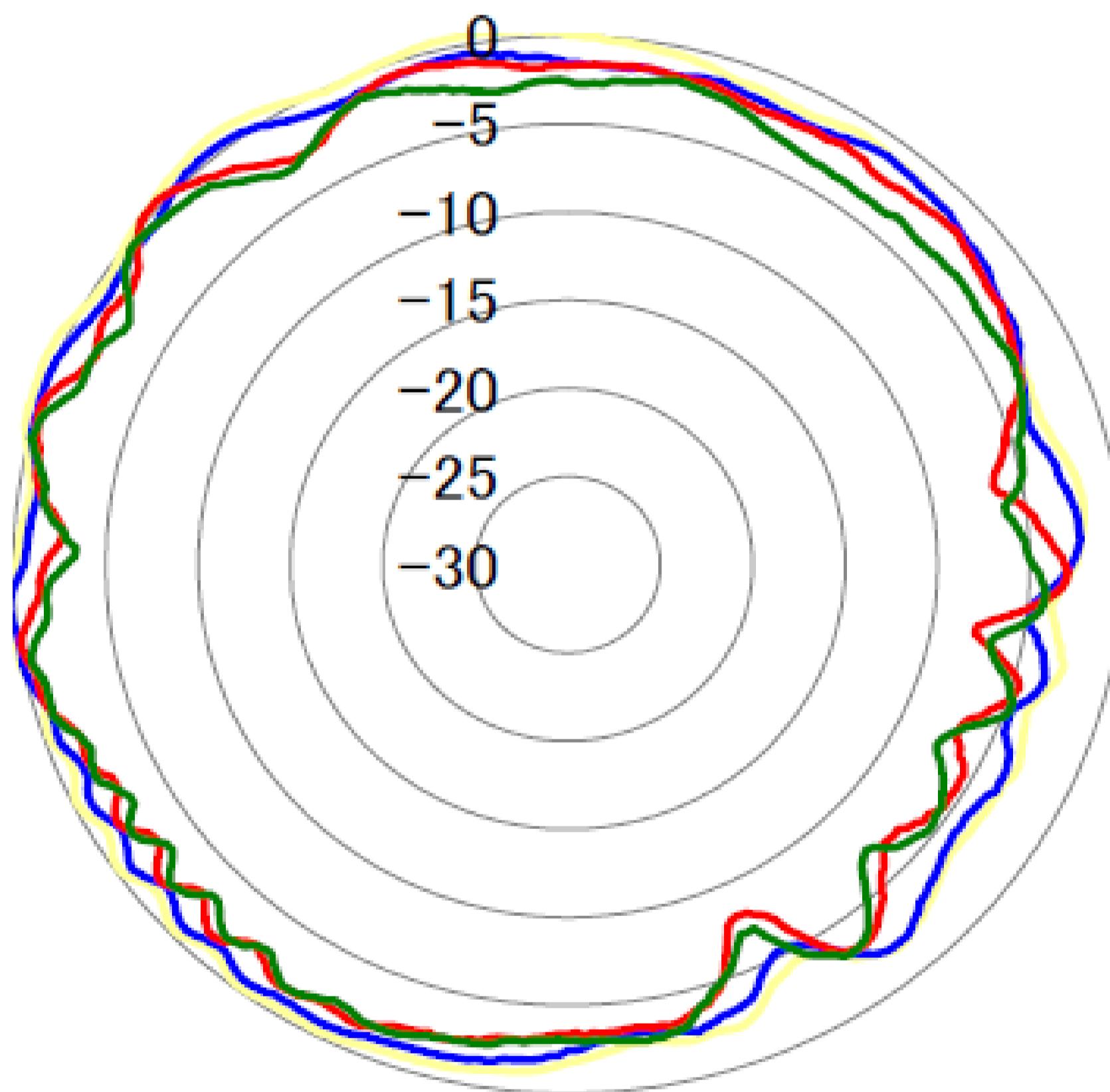
Antenna 2



Antenna 2	Max.			
Frequency[MHz]	5180	5300	5500	5750
Gain[dBi]	-3.45	-3.08	-5.77	-5.97

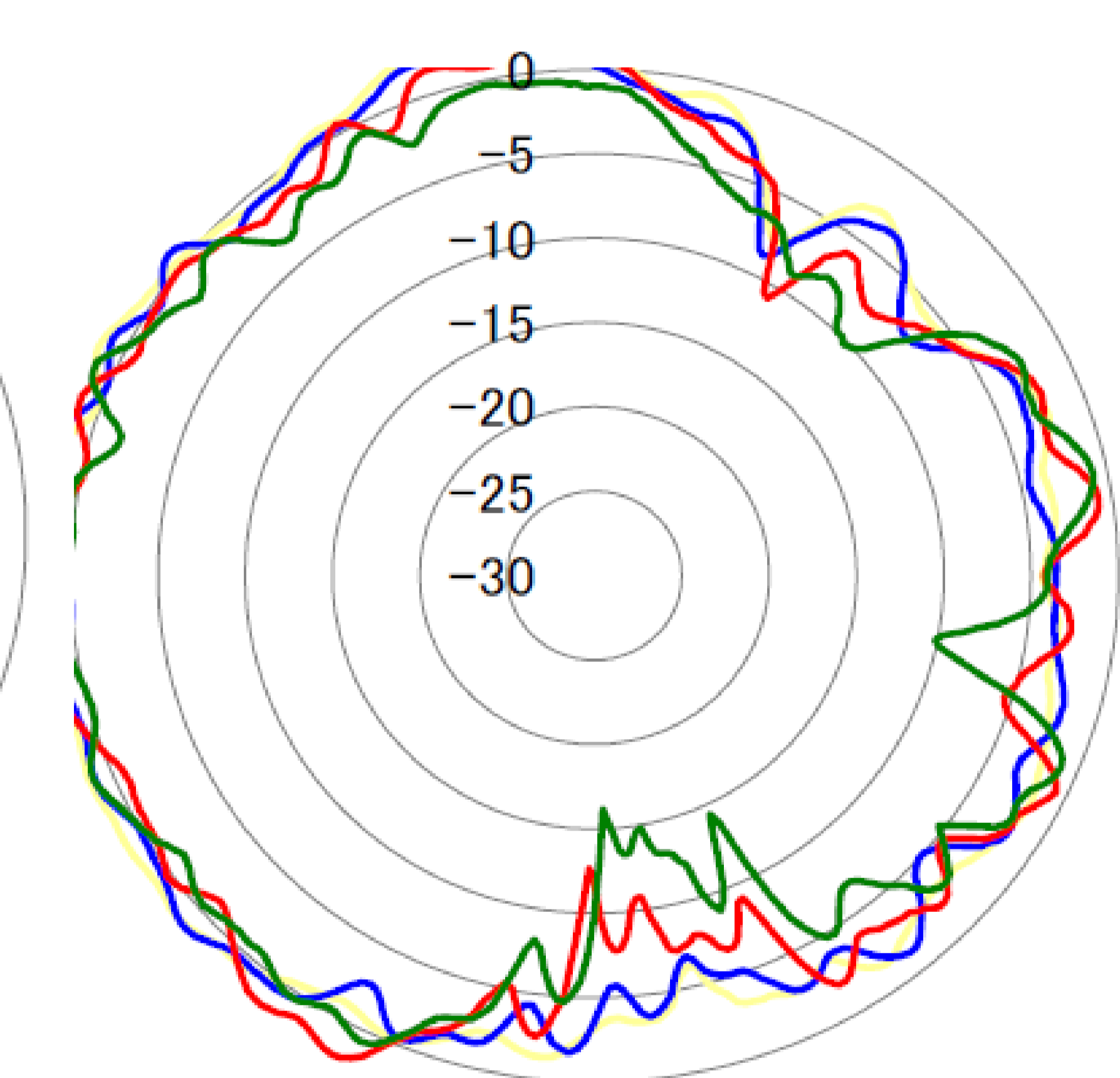
Vertical

Antenna 1



Antenna 1	Max.			
Frequency[MHz]	5180	5300	5500	5750
Gain[dBi]	-1.01	-1.75	-2.26	-2.37

Antenna 2



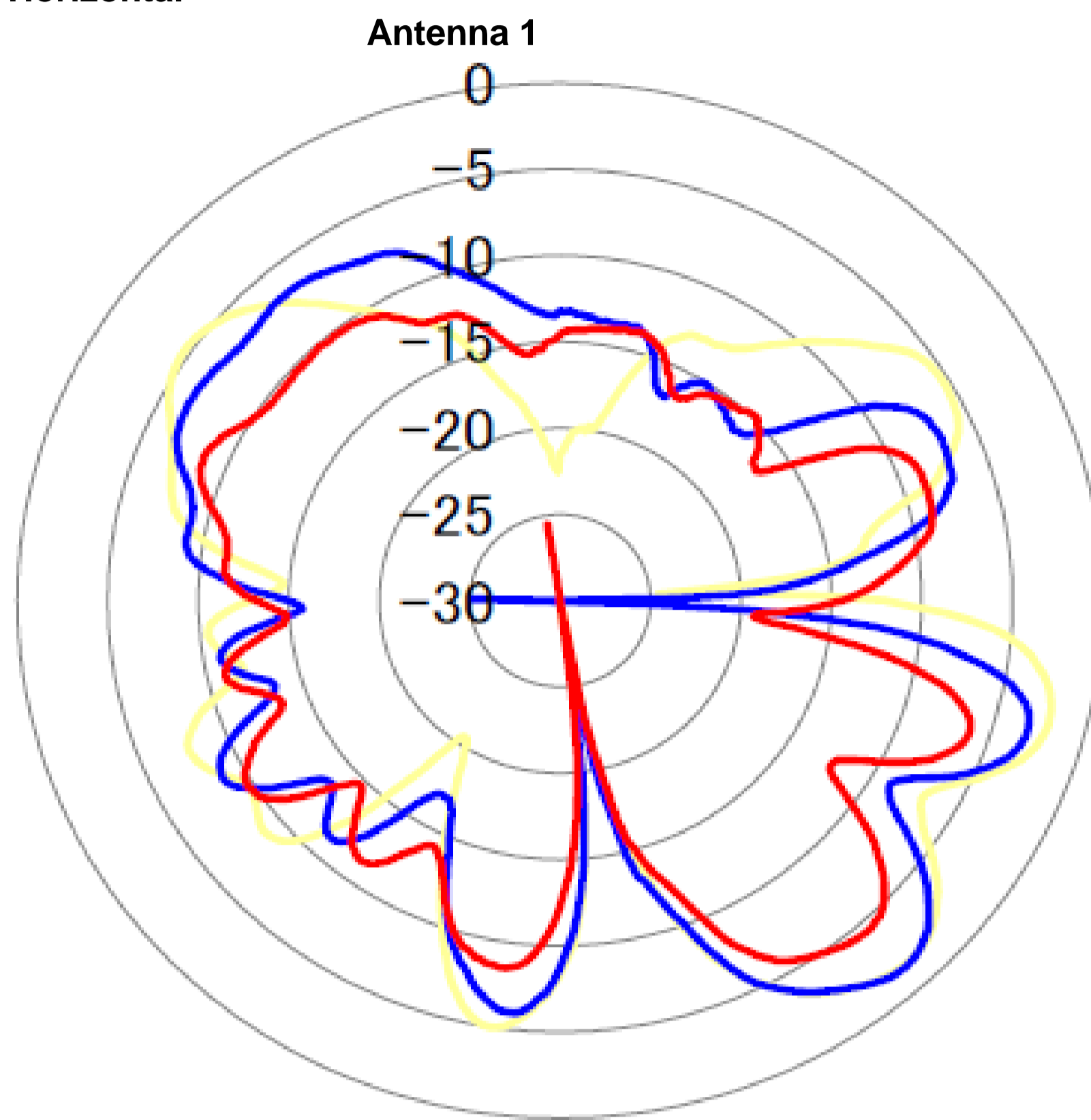
Antenna 2	Max.			
Frequency[MHz]	5180	5300	5500	5750
Gain[dBi]	-0.82	-0.07	-0.95	-0.63

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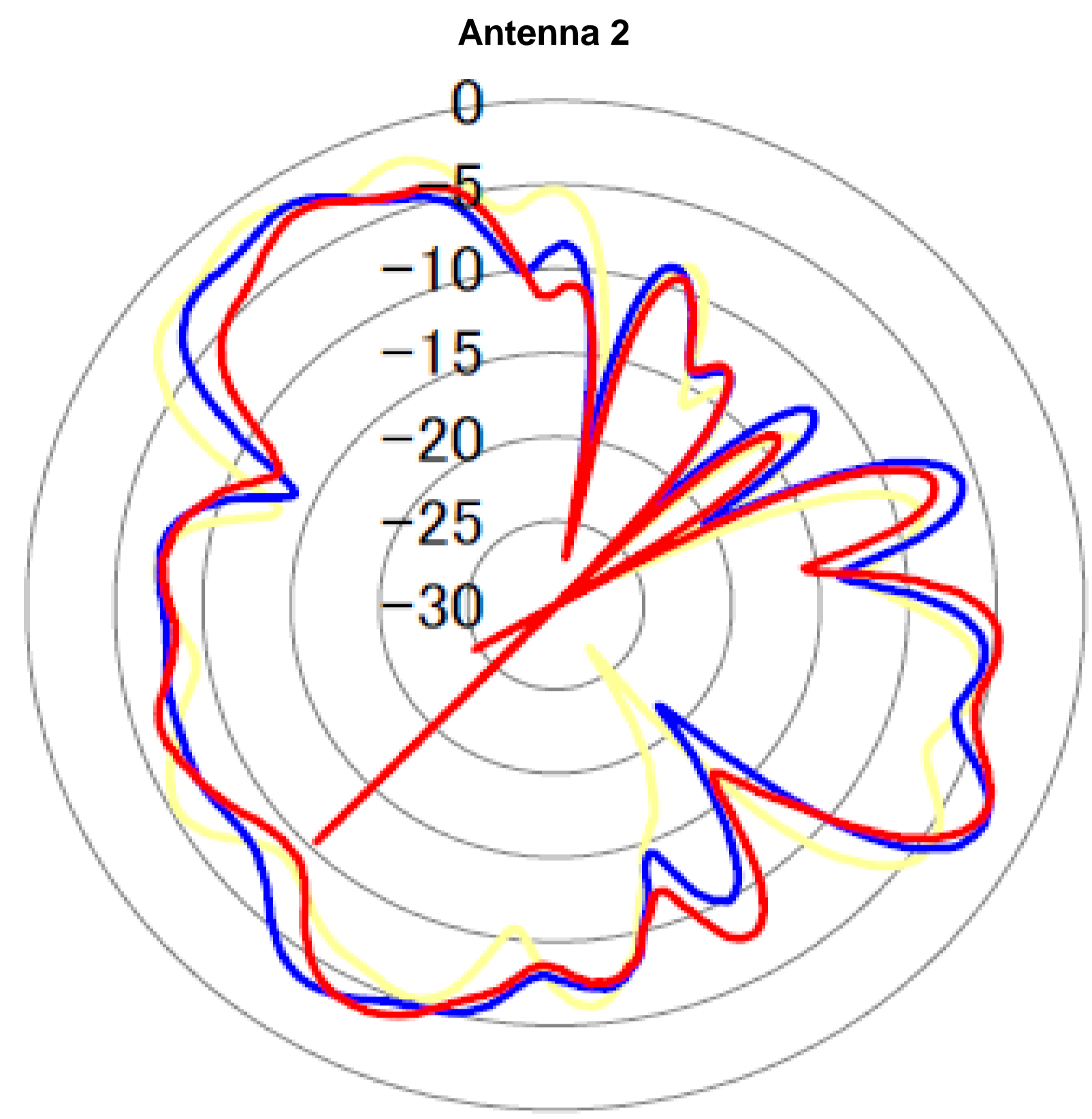
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2.4GHz

Horizontal

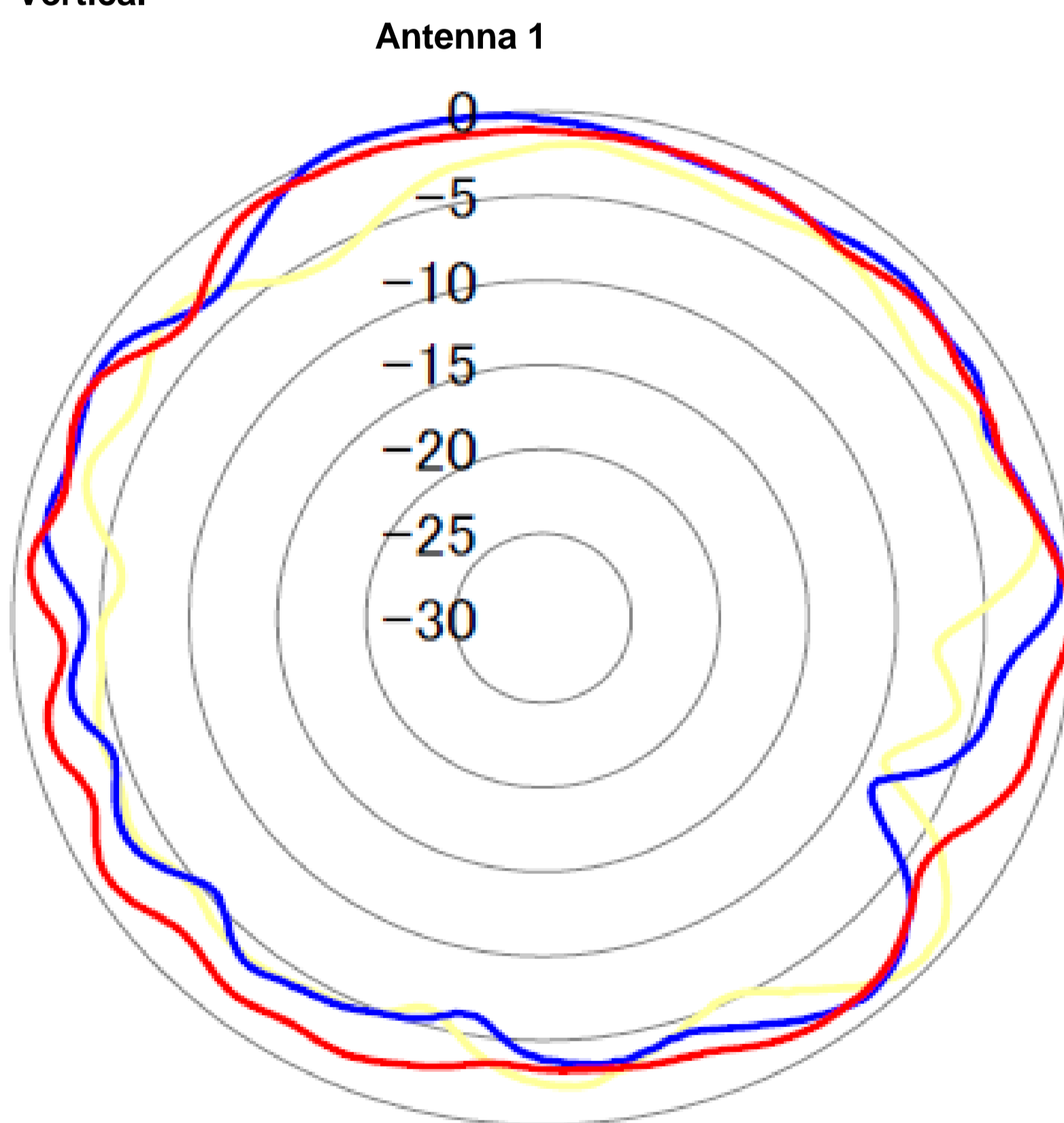


Antenna 1	Max.		
Frequency[MHz]	2400	2450	2500
Gain[dBi]	-3.58	-6.55	-12.69

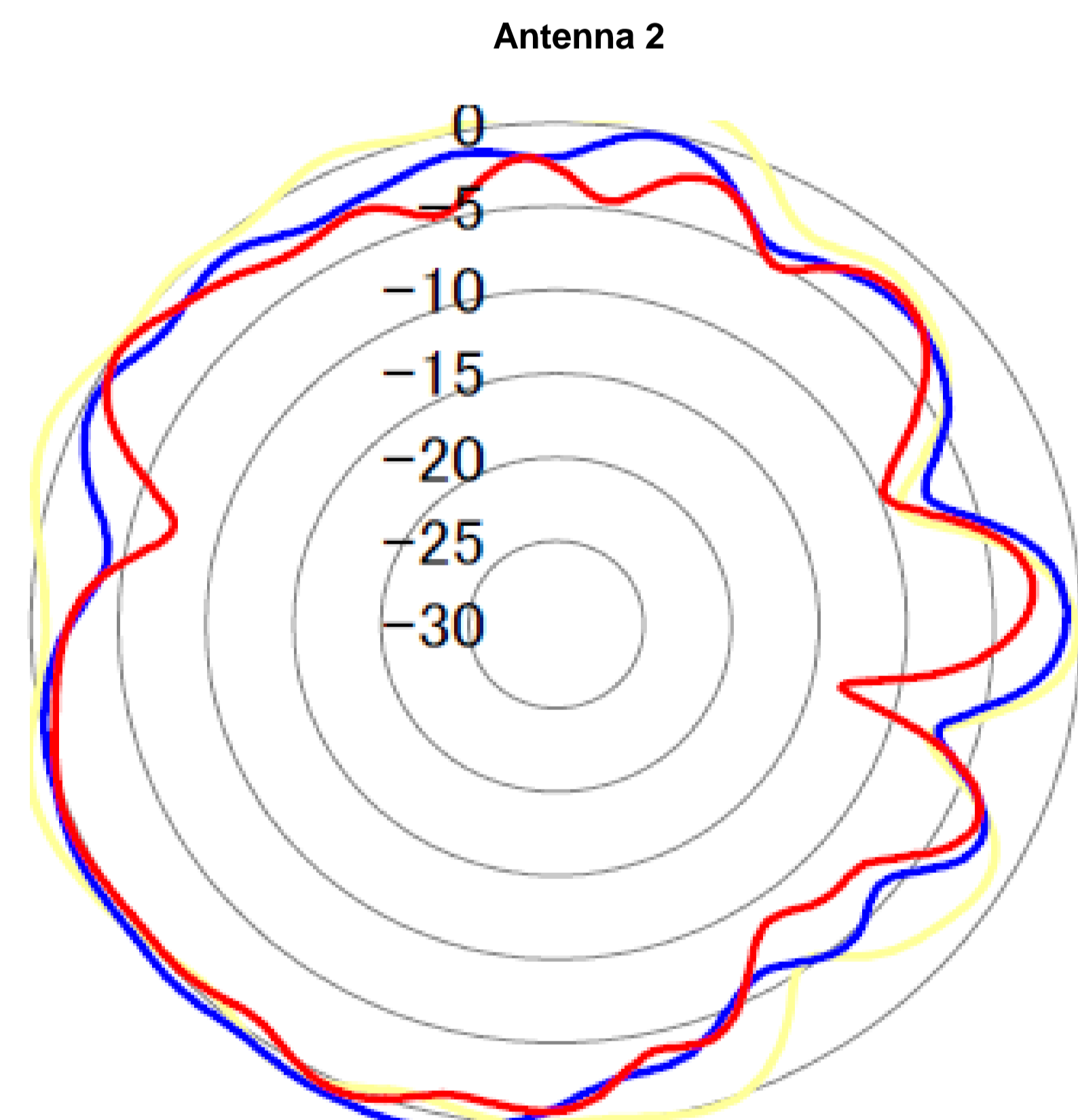


Antenna 2	Max.		
Frequency[MHz]	2400	2450	2500
Gain[dBi]	-3.96	-4.61	-5.46

Vertical



Antenna 1	Max.		
Frequency[MHz]	2400	2450	2500
Gain[dBi]	-1.96	-2.24	-1.77



Antenna 2	Max.		
Frequency[MHz]	2400	2450	2500
Gain[dBi]	-0.55	-1.59	-1.57

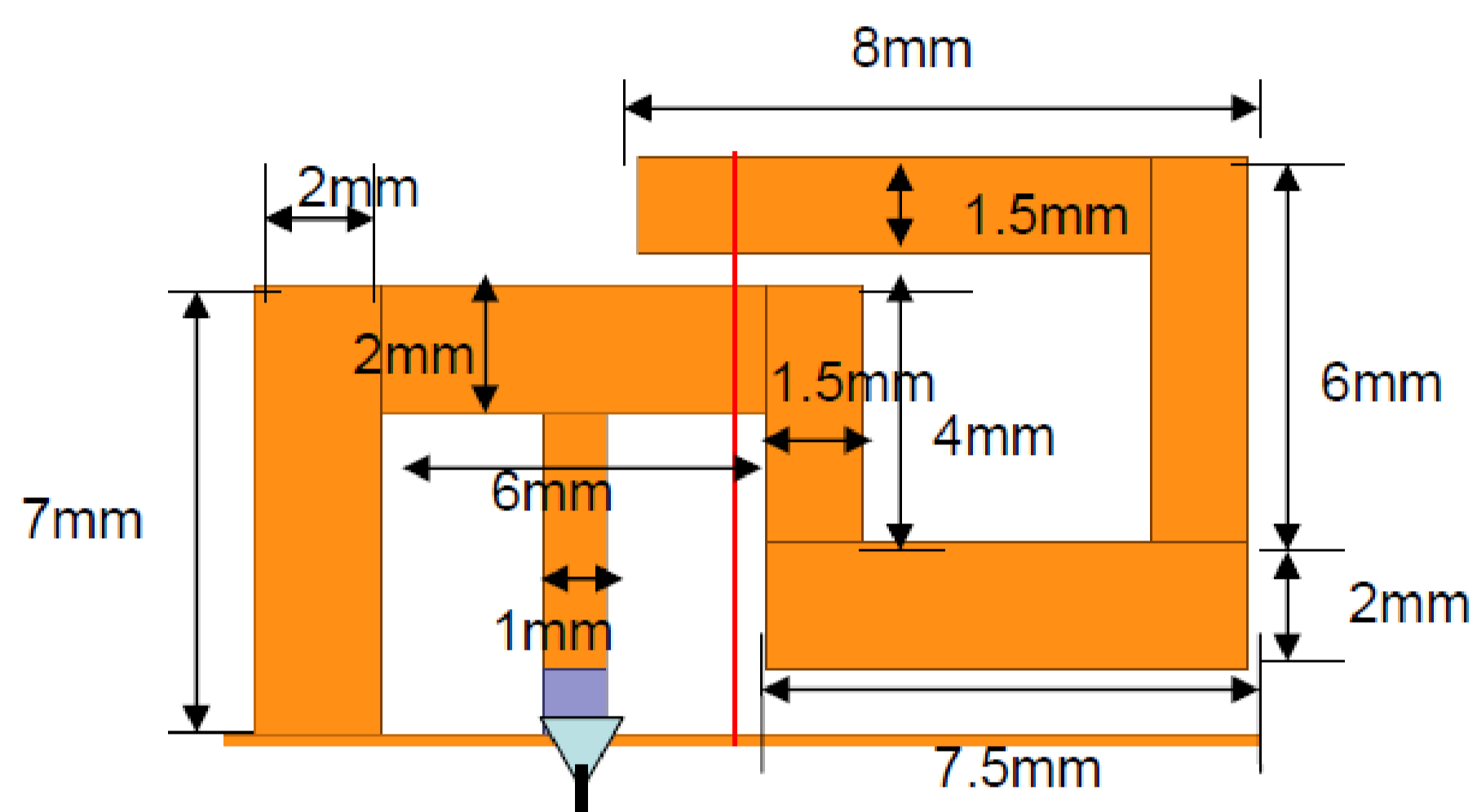
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Antenna Specification (Bluetooth)

Specifications

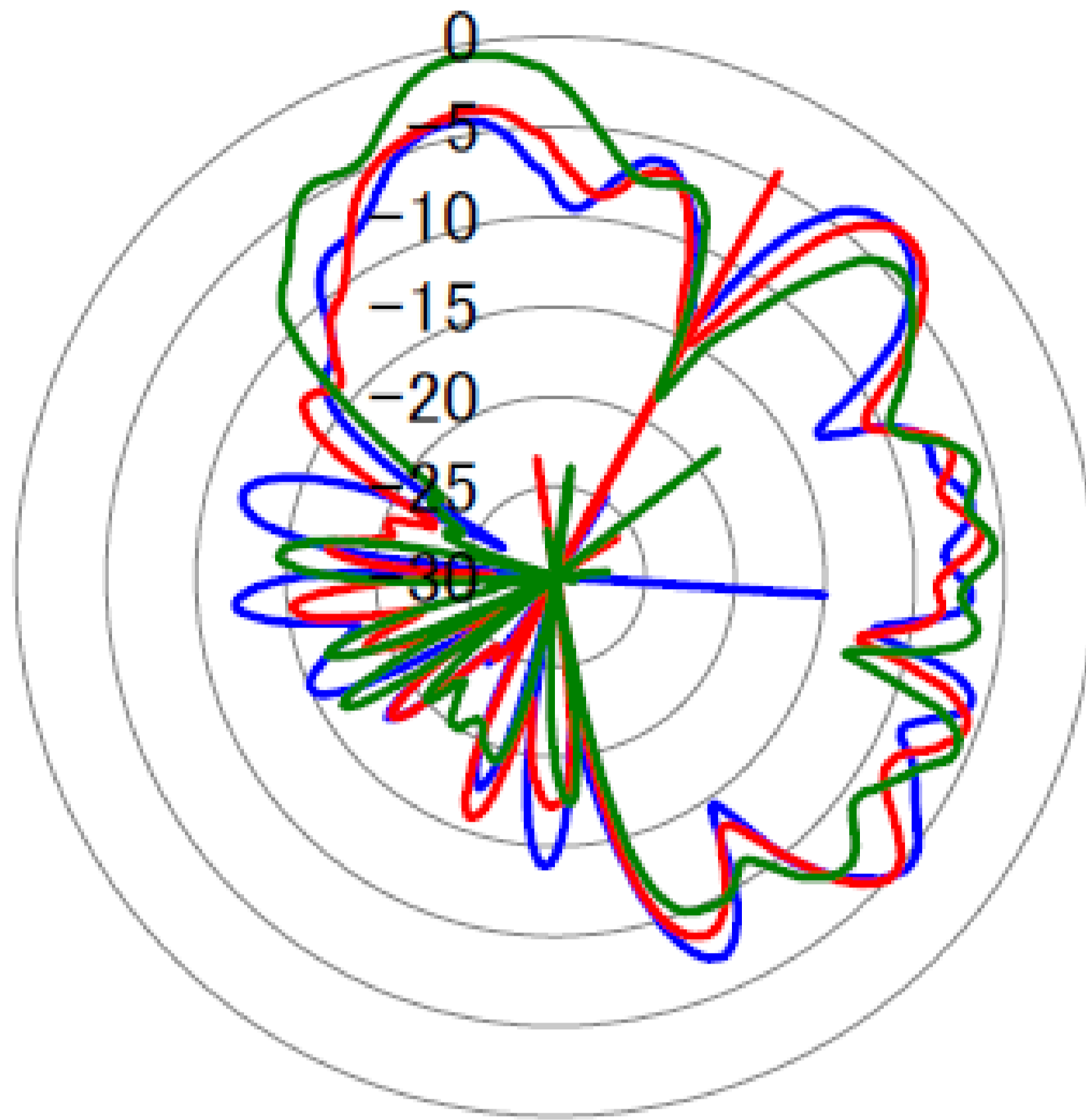
Item	SPEC							
Antenna type	Internal antenna							
Antenna Model	N/A							
Antenna Trademark	N/A							
Antenna Manufacture	SANSEI ELECTRIC CO., Ltd.							
Center Frequency	Horizontal				Vertical			
	2400MHz	2450MHz	2500MHz		2400MHz	2450MHz	2500MHz	
	-5.13	-4.97	-2.76		-8.03	-8.37	-7.21	
MAX Gain	-2.76 dBi							
Polarization	Horizontal and Vertical							
Azimuth Beam Pattern	Omni-Directional							
Impedance	50ohm							
Antenna Length	65mm							
Manufacture	N/A							



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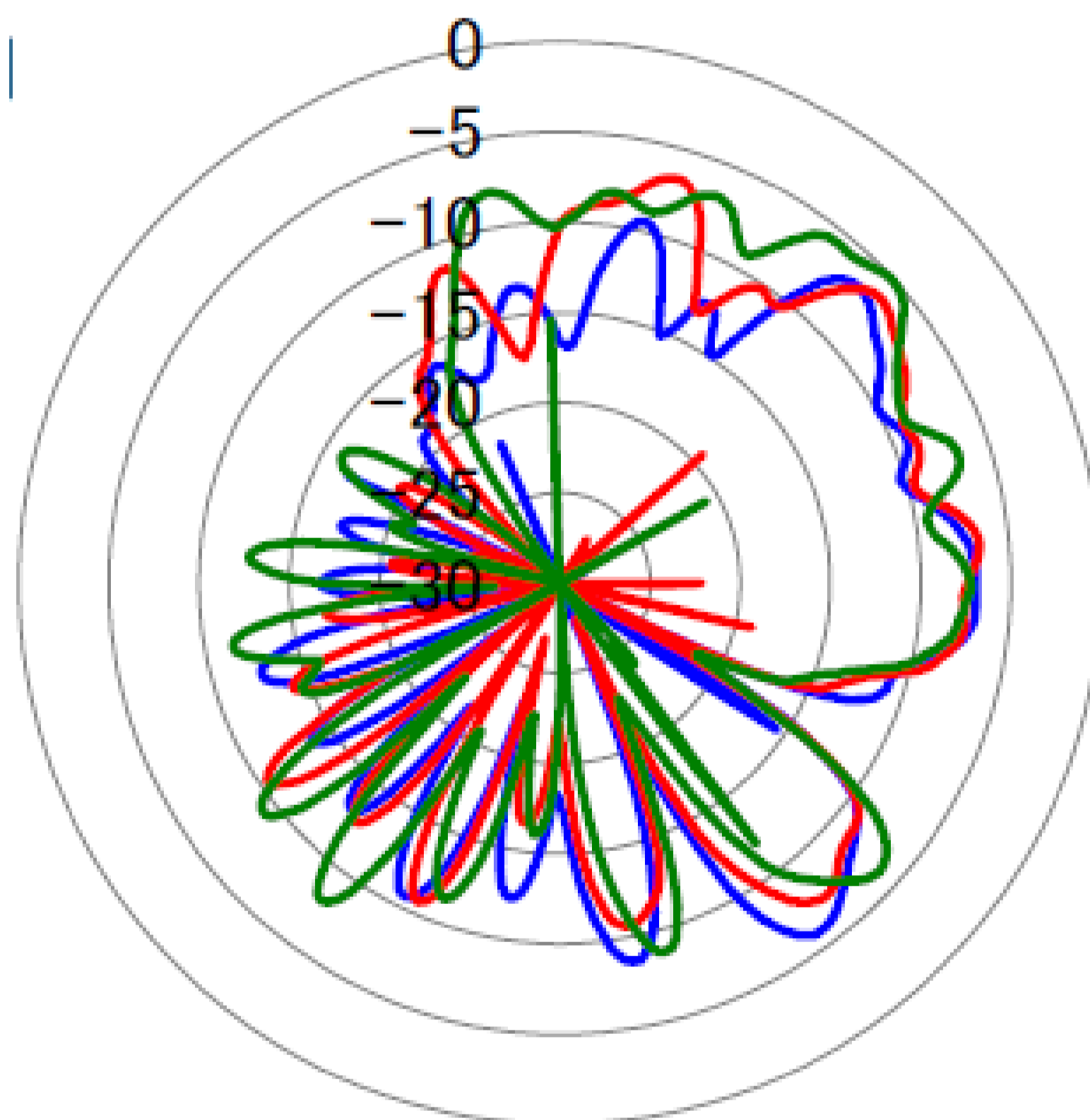
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Horizontal



Antenna	Max.		
Frequency[MHz]	2400	2450	2500
Gain[dBi]	-5.13	-4.97	-2.76

Vertical



Antenna	Max.		
Frequency[MHz]	2400	2450	2500
Gain[dBi]	-8.03	-8.37	-7.21