

WiFi-6E Reference Antenna Datasheet

1. Antenna Specification

1.1. Antenna information

Manufacturer	Type	Antenna Part number	Band	Peak Gain (dBi)	Target Peak Gain (dBi)
Intel WRF Lab	PIFA	WRF-BR-PIFA-V3.2	6.2GHz 5925-6425MHz	4.83	5
			6.5GHz 6425-6525MHz	4.30	
			6.6GHz 6525-6875MHz	5.37	
			7GHz 6875-7125MHz	5.59	

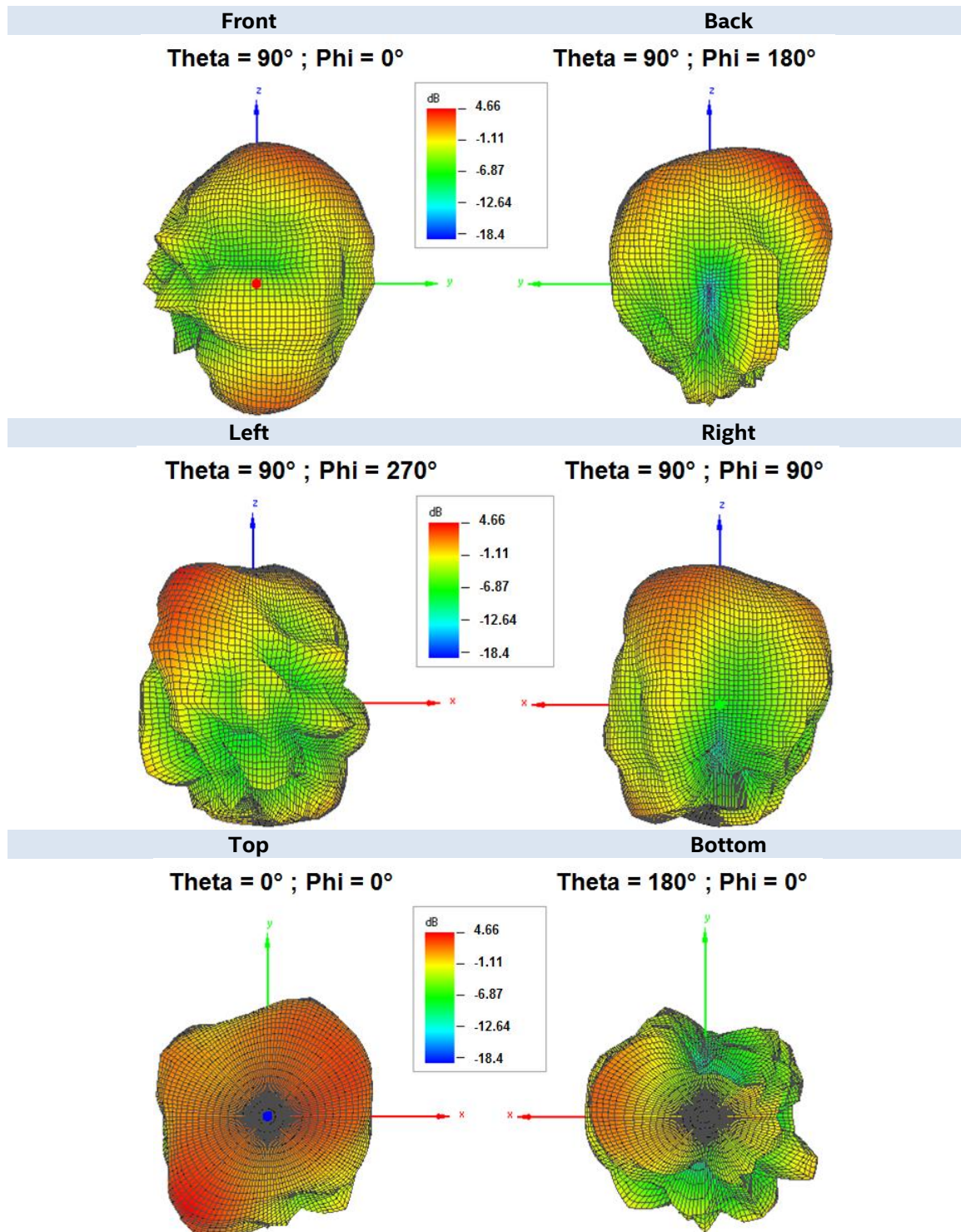
1.2. Antenna Peak Gain Table

Frequency (MHz)	Peak Gain		
	Horizontal (Theta)	Vertical (Phi)	Total
	(dBi)	(dBi)	(dBi)
5925	3.32	2.90	4.66
6250	3.45	2.58	4.83
6425	3.95	2.97	4.30
6525	3.46	2.71	4.11
6875	5.29	3.98	5.37
7125	3.84	4.21	5.59

2. Antenna Radiation Patterns 5925 - 7125 MHz

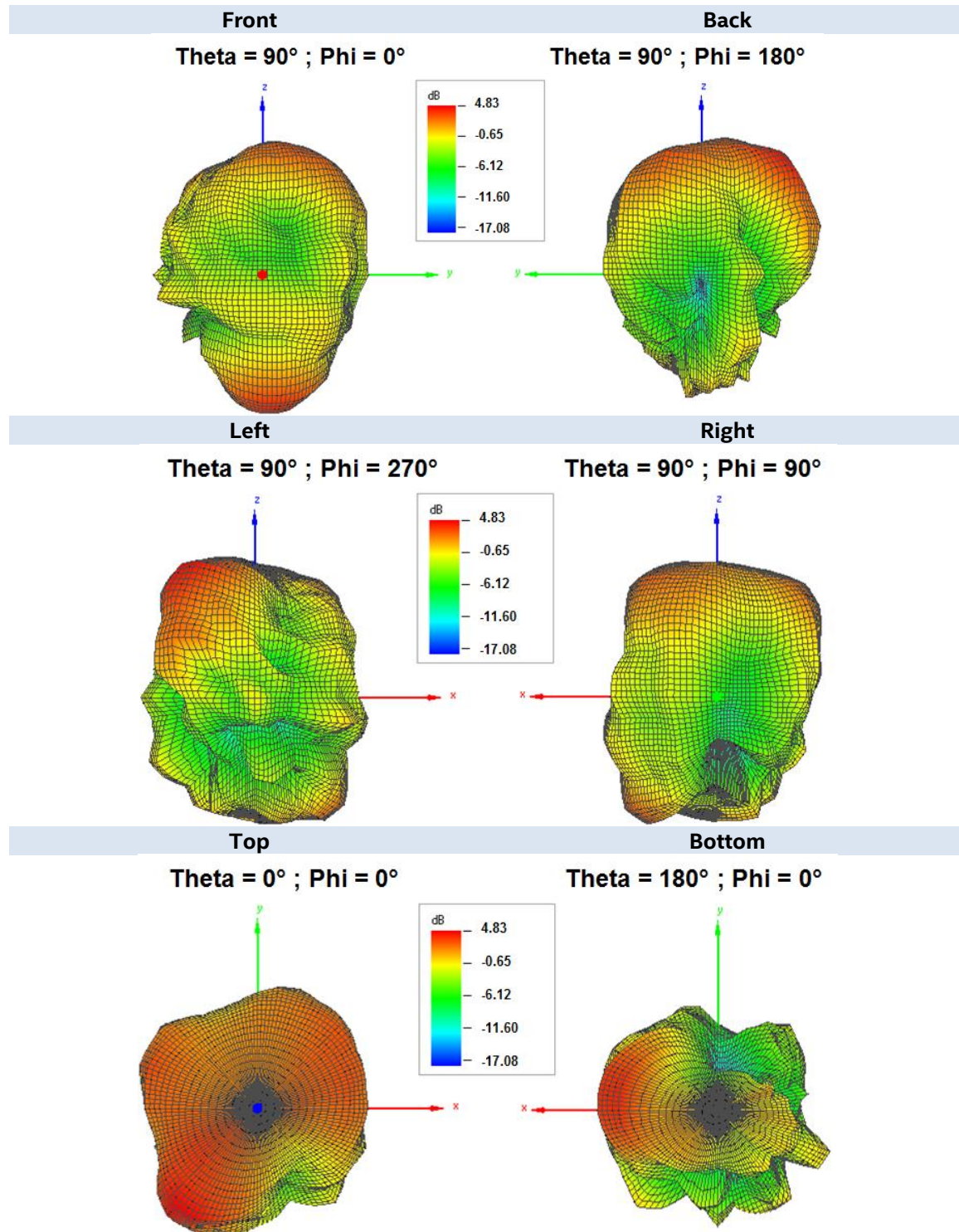
2.1. Pattern @5925MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Theta)	Vertical (Phi)	Total
	(dBi)	(dBi)	(dBi)
6000	3.32	2.90	4.66



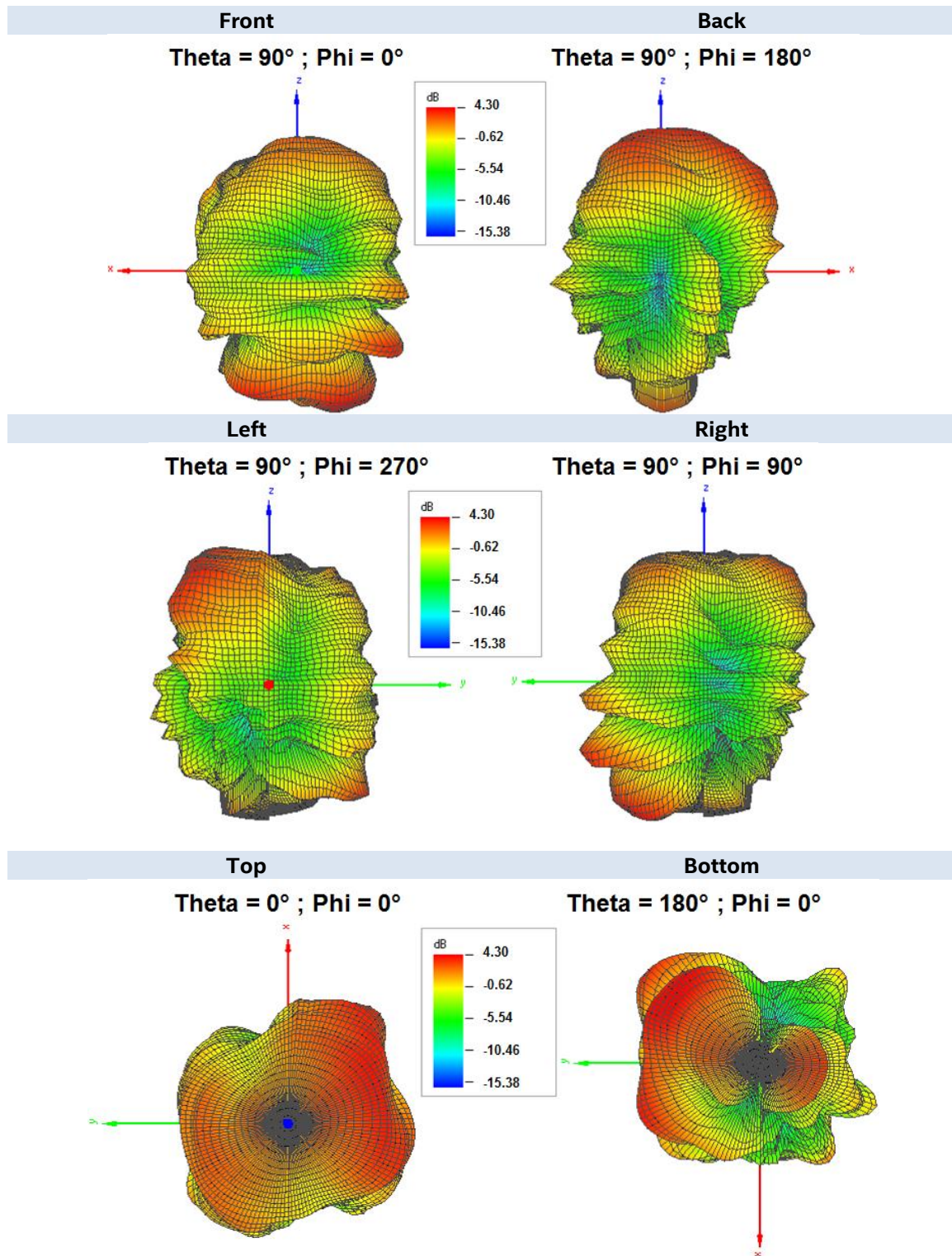
2.2. Pattern @6250MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Theta)	Vertical (Phi)	Total
	(dBi)	(dBi)	(dBi)
6250	3.45	2.58	4.83



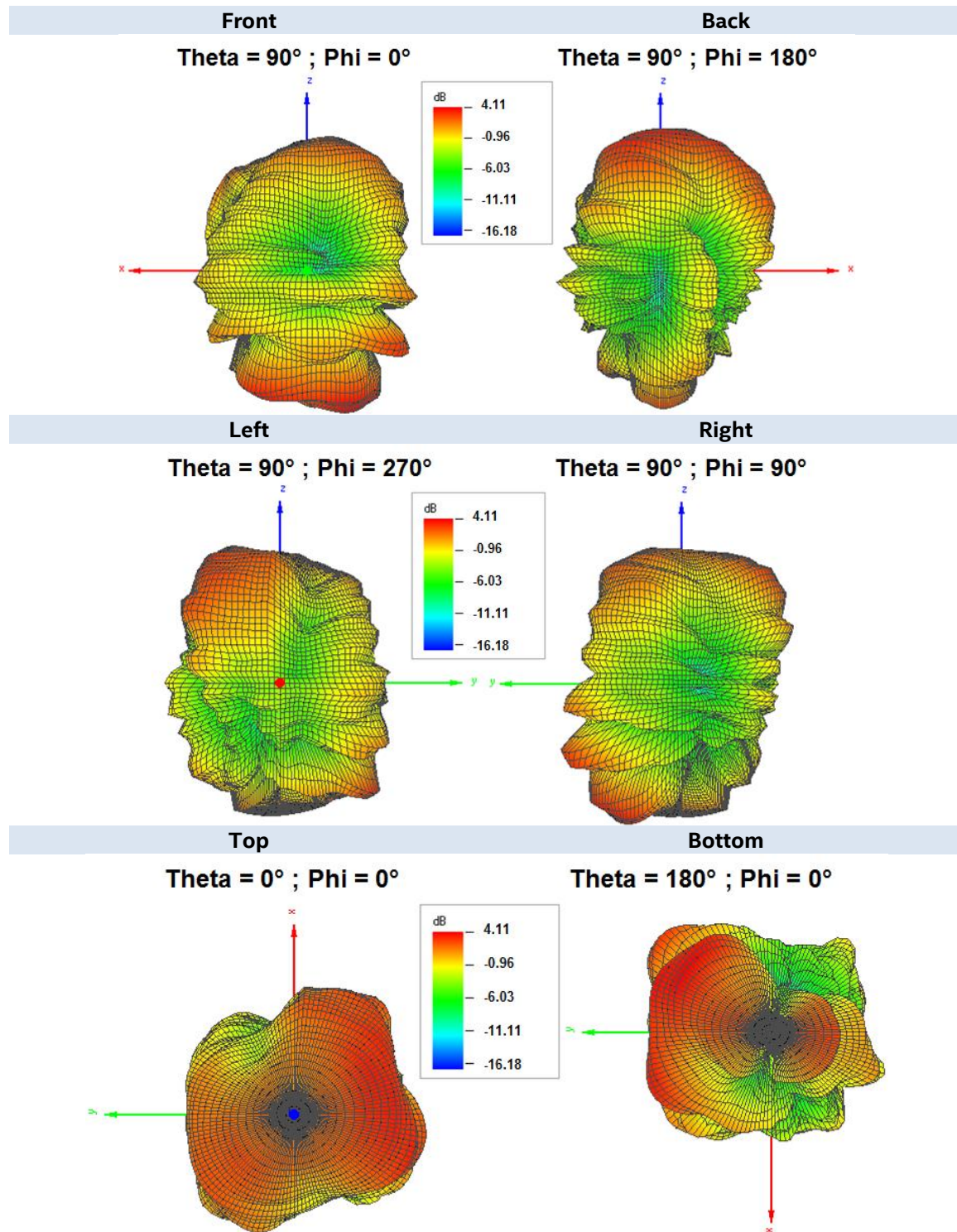
2.3. Pattern @6425MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Theta)	Vertical (Phi)	Total
	(dBi)	(dBi)	(dBi)
7125	3.95	2.97	4.30



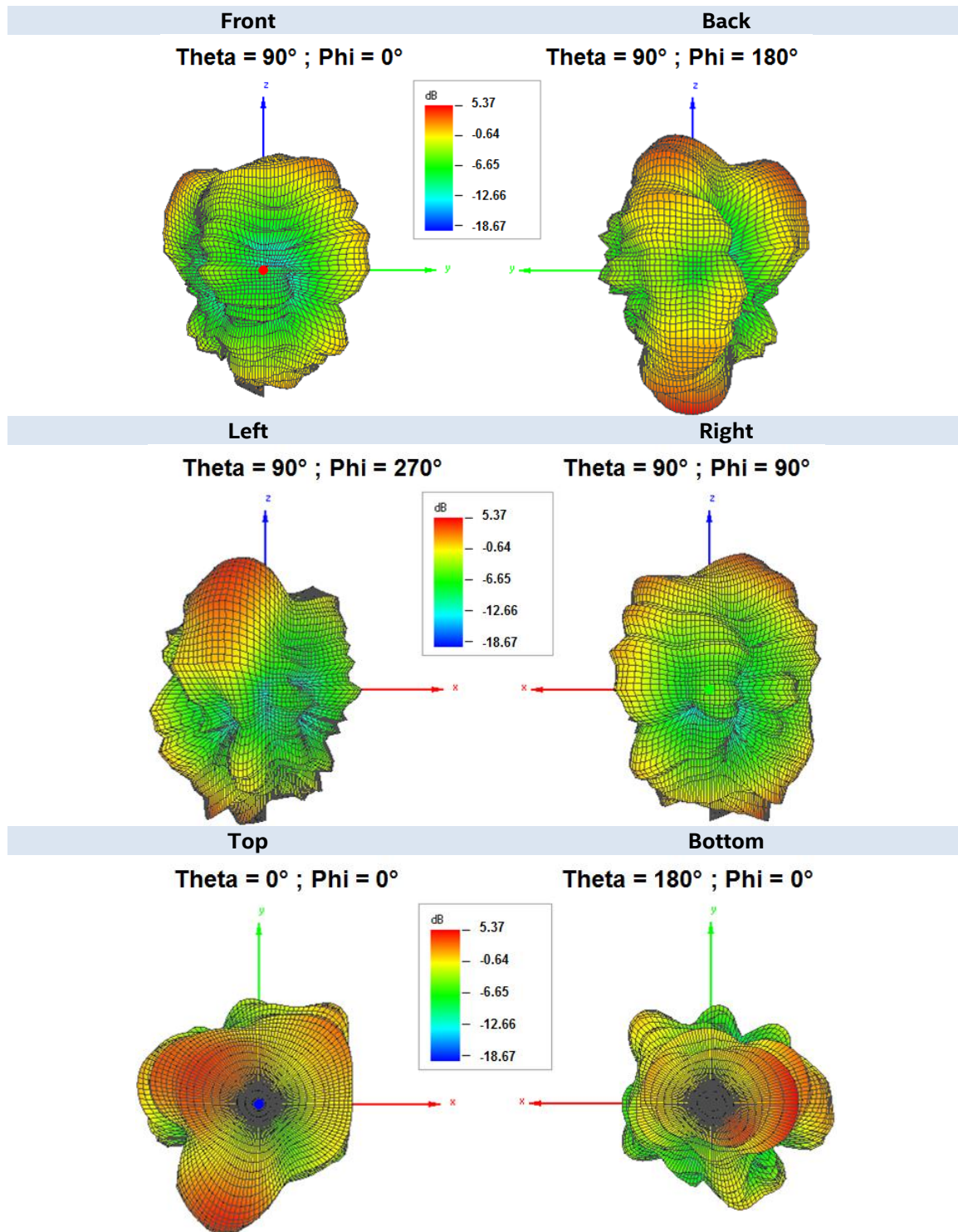
2.4. Pattern @6525MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Theta)	Vertical (Phi)	Total
	(dBi)	(dBi)	(dBi)
7125	3.46	2.71	4.11



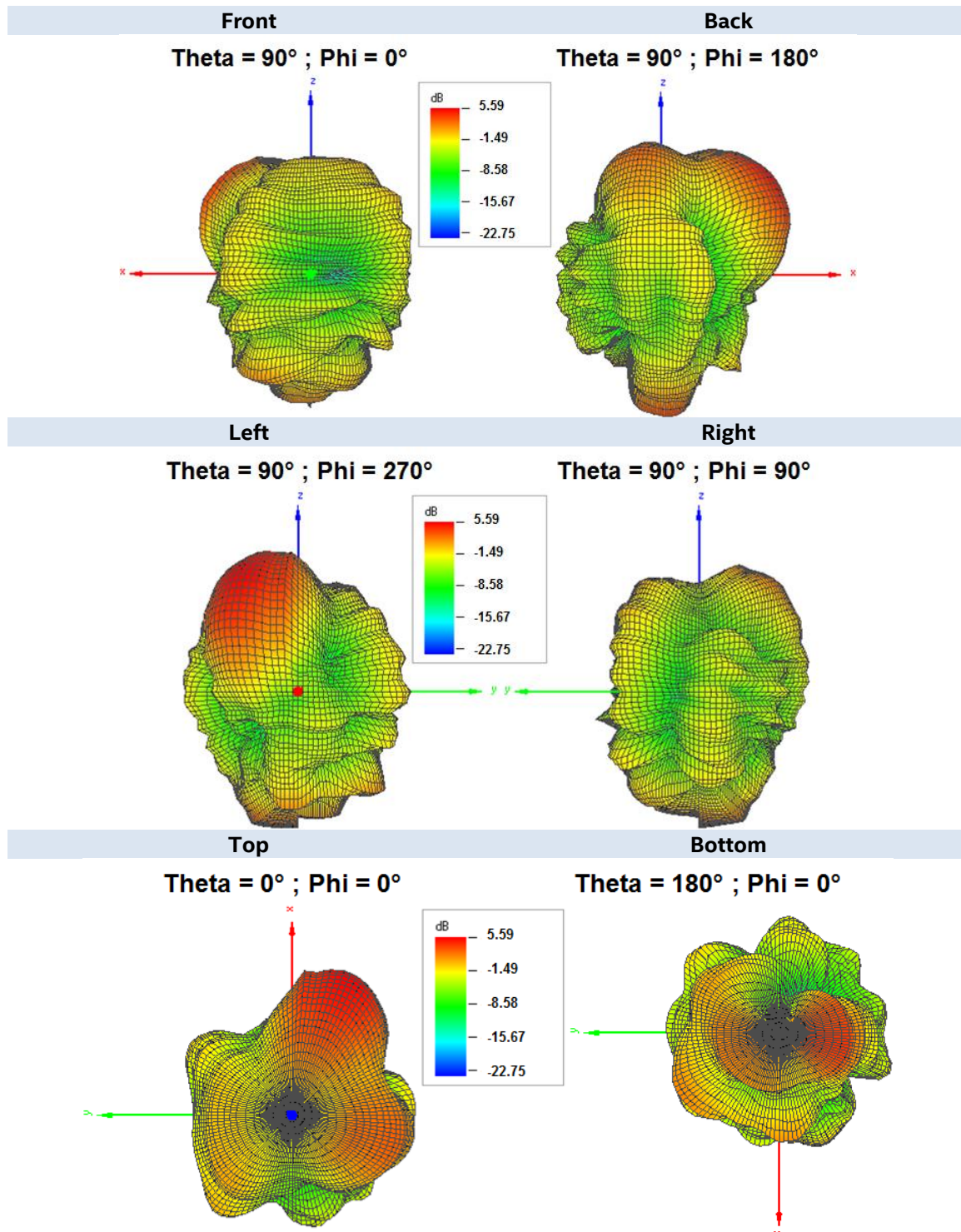
2.5. Pattern @6875MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Theta)	Vertical (Phi)	Total
	(dBi)	(dBi)	(dBi)
7125	5.29	3.98	5.37

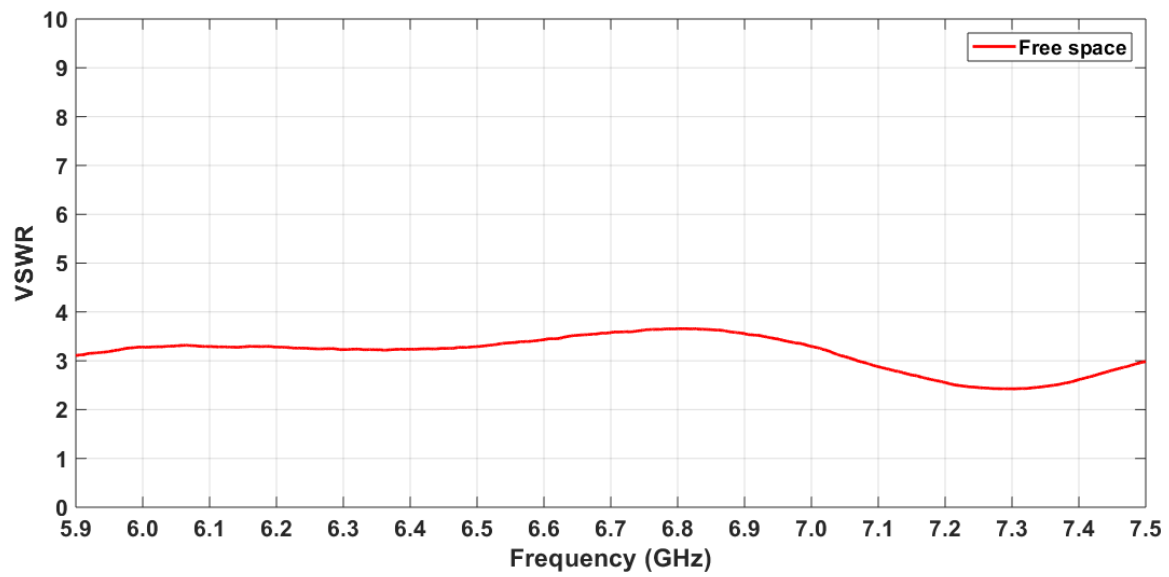


2.6. Pattern @7125MHz

Frequency (MHz)	Peak Gain		
	Horizontal (Theta)	Vertical (Phi)	Total
	(dBi)	(dBi)	(dBi)
7125	3.84	4.21	5.59



3. VSWR Measurement



4. Antenna Photo

