


1. Specification

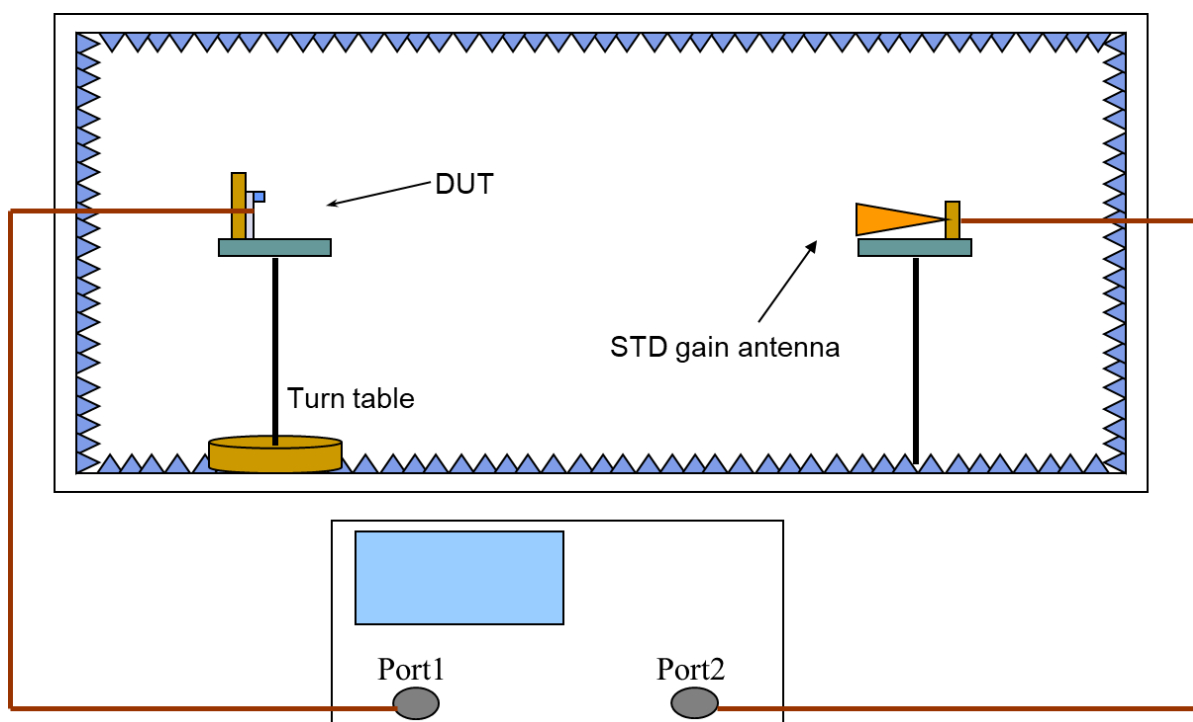
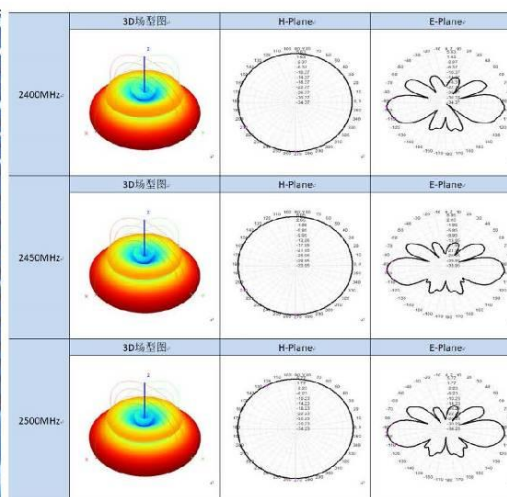
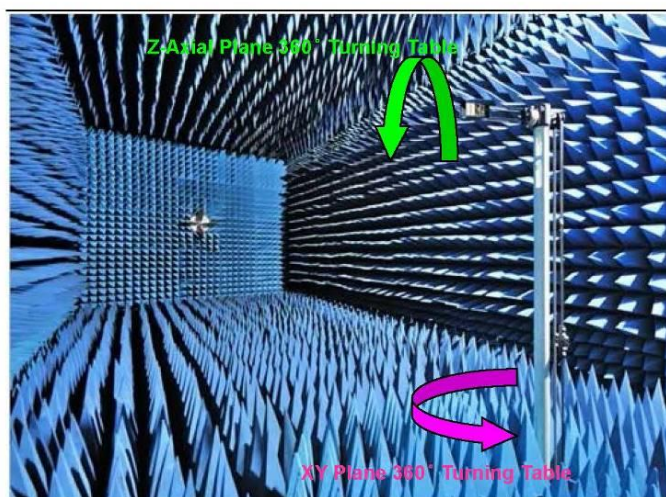
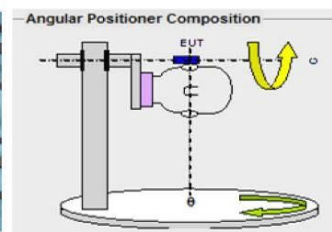
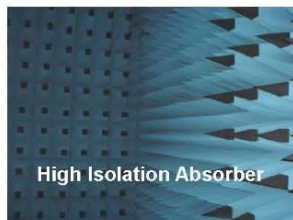
Sample Photo			
			
A. Electrical Characteristics			
Port	Port1	Port2	Port3
Frequency	2400-2500MHz	3700-4200MHz	5150-5850MHz
S.W.R.	<2.0	<2.0	<2.0
Antenna Gain	10dBi	13dBi	14dBi
Polarization	Vertical	Vertical	Vertical
Horizontal Beamwidth	105±6°	37±3°	46±4°
Vertical Beamwidth	25±2°	35±5°	34±2°
F/B	>20dB	>25dB	>23dB
Impedance	50Ohm	50Ohm	50Ohm
Max. Power	50W	50W	50W
B. Material & Mechanical Characteristics			
Connector Type	N connector		
Dimension	290*205*40mm		
Radome material	ASA		
Mount Pole	∅30-∅75		
Weight	1.6Kg		
C. Environmental			
Operation Temperature	- 40 °C ~ + 85 °C		
Storage Temperature	- 40 °C ~ + 85 °C		
Operation Humidity	< 95%		
Rated Wind Velocity	36.9m/s		

Test Equipment & Conditions

1. Network Analyzer: Keysight E5071C

2. 3D Chamber Test System

- .Chamber Size: 9 x 5 x 4 m³
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software





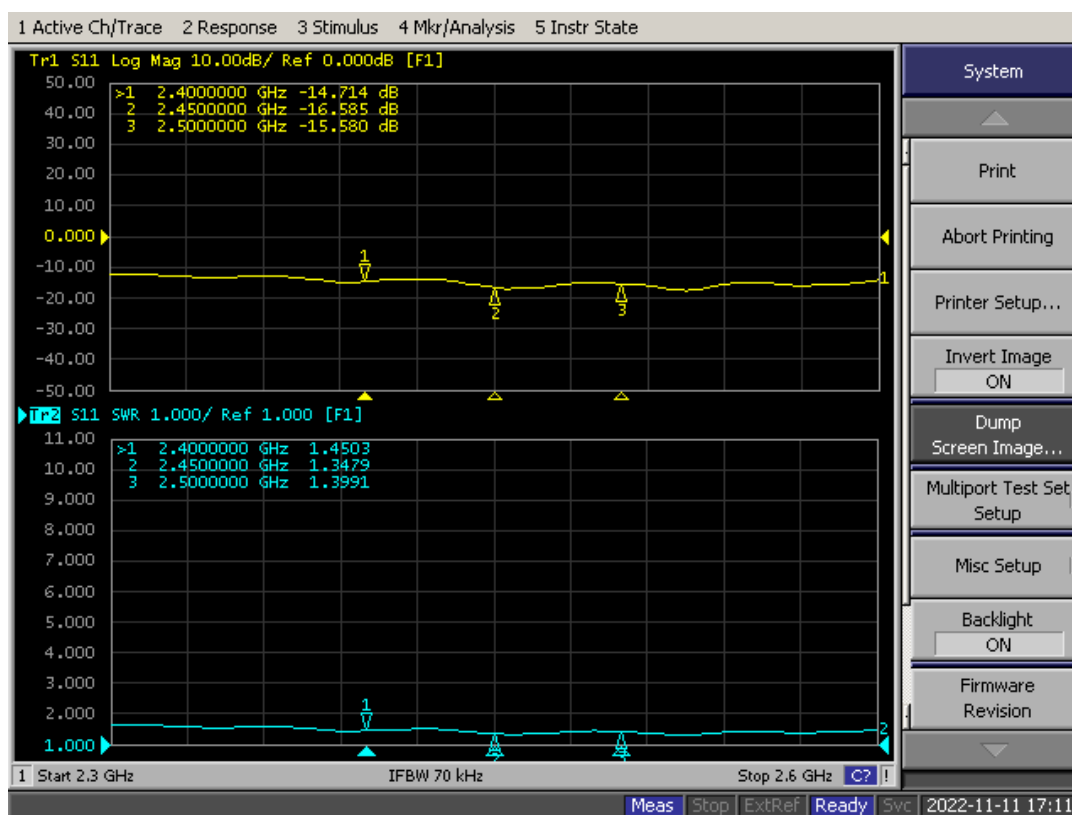
Product Number: BGS-AN2458-29020540G3

Product Name: 2.4/5.8GHz 3.7-4.2GHz Flat Panel Antenna 10-14dBi

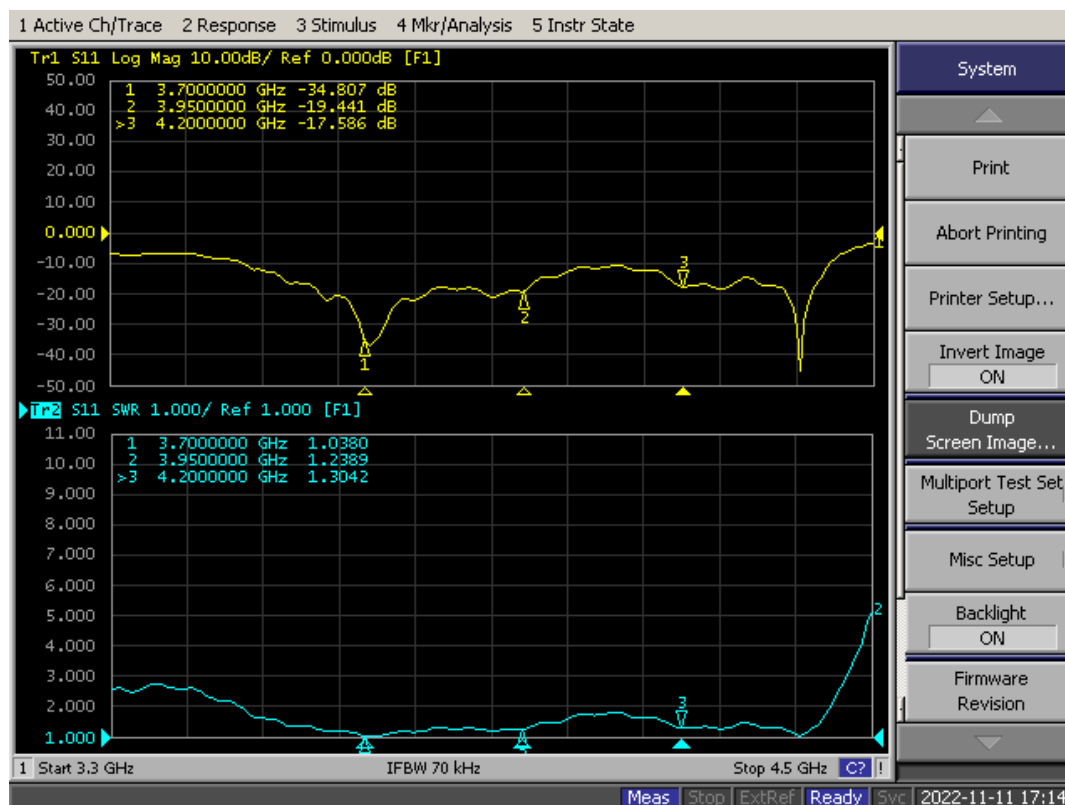
2. Antenna - S Parameter Test Data

2.1 VSWR

Port1



Port2

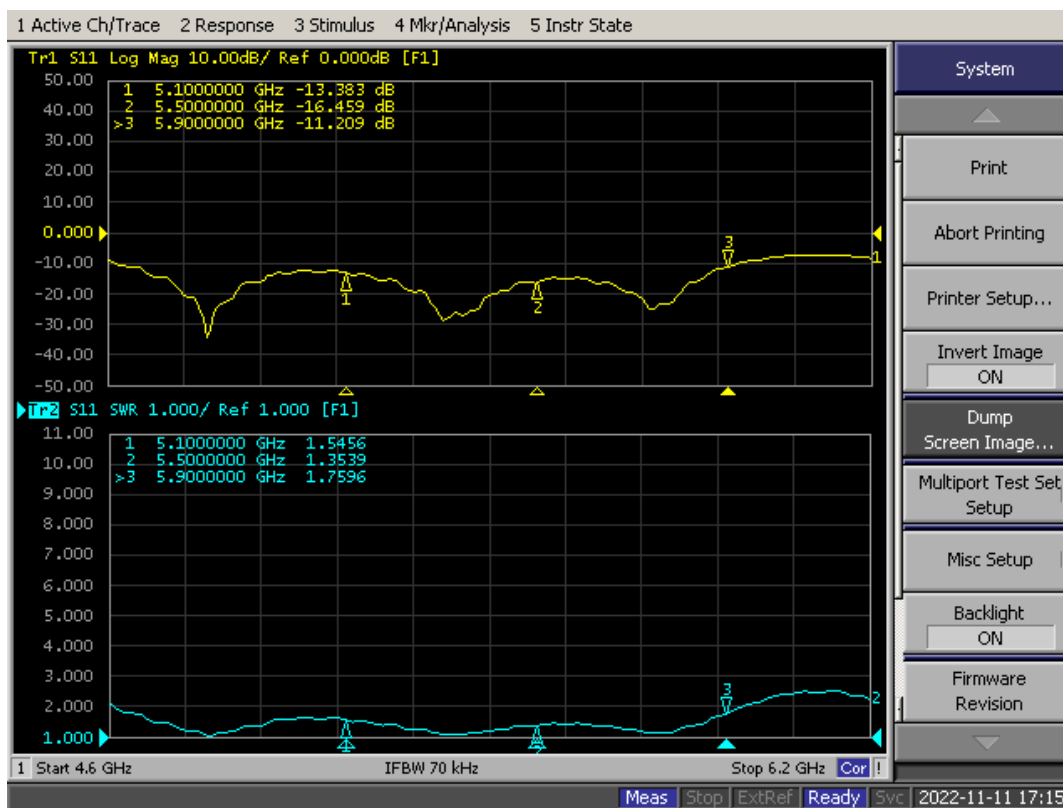




Product Number: BGS-AN2458-29020540G3

Product Name: 2.4/5.8GHz 3.7-4.2GHz Flat Panel Antenna 10-14dBi

Port3





Product Number: BGS-AN2458-29020540G3

Product Name: 2.4/5.8GHZ 3.7-4.2GHz Flat Panel Antenna 10-14dBi

2.2 Gain:

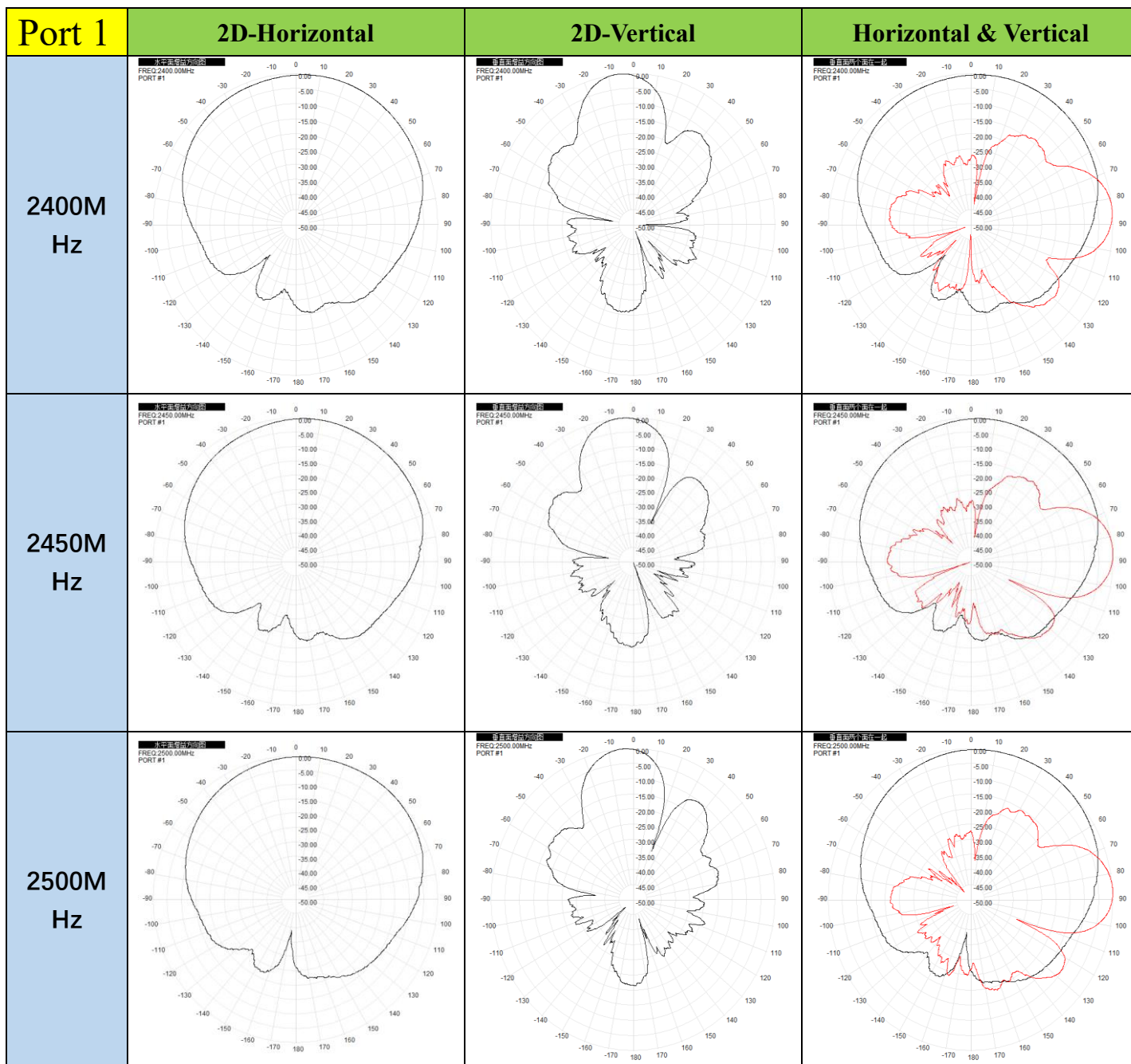
Port 1		Port 2		Port 3	
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
2400	10.496	3700	13.032	5100	13.878
2410	10.589	3750	13.128	5150	14.082
2420	10.522	3800	13.178	5200	13.333
2430	10.455	3850	13.013	5250	13.544
2440	10.506	3900	13.056	5300	13.656
2450	10.475	3950	13.436	5350	13.758
2460	10.549	4000	13.135	5400	13.591
2470	10.623	4050	13.467	5450	13.419
2480	10.492	4100	13.566	5500	13.516
2490	10.345	4150	13.492	5550	13.322
2500	10.488	4200	13.534	5600	13.188
				5650	13.185
				5700	13.153
				5750	13.243
				5800	13.117
				5850	13.175
				5900	13.275



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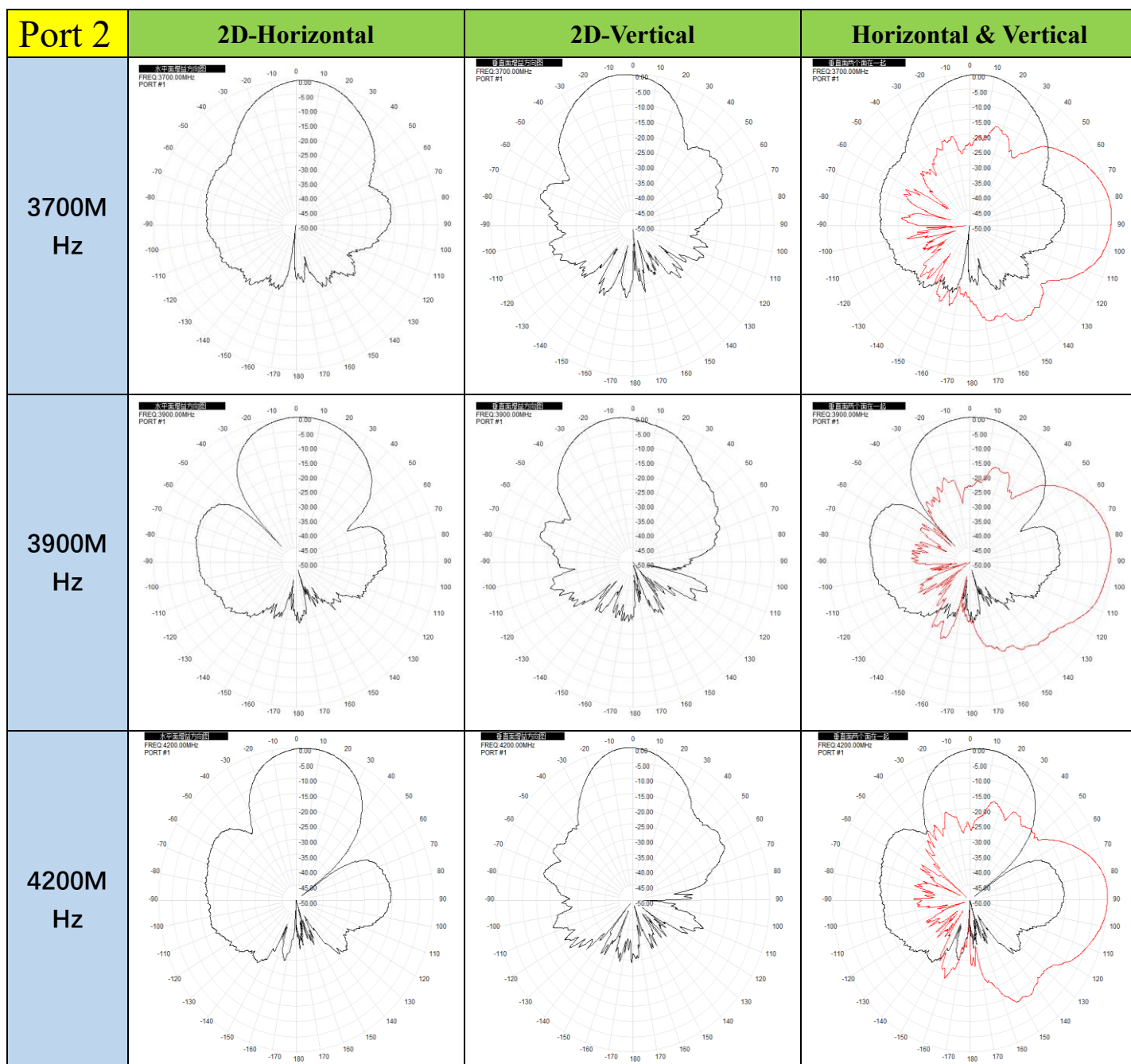
2.3 Radiation Pattern





Product Number: BGS-AN2458-29020540G3

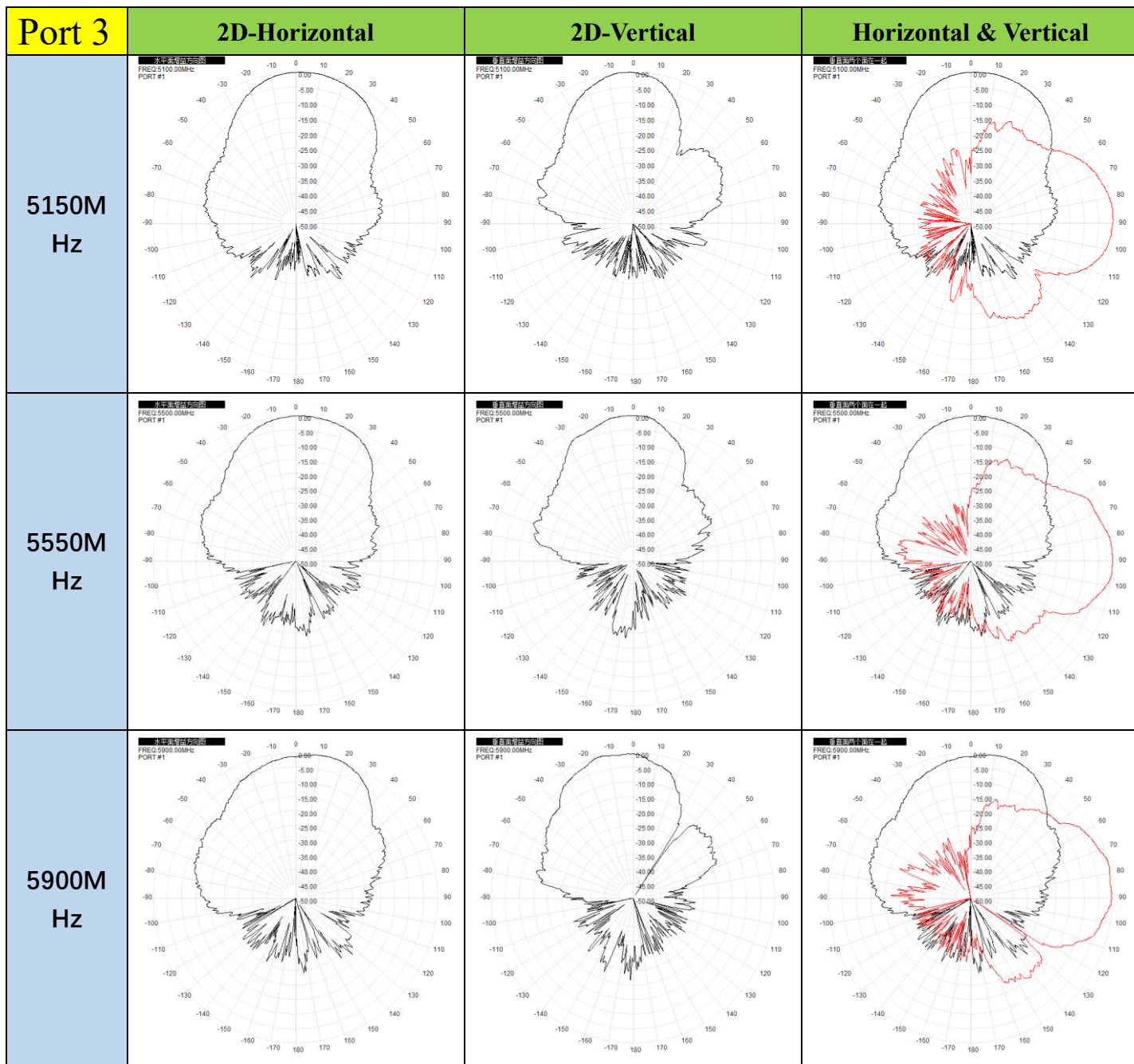
Product Name: 2.4/5.8GHZ 3.7-4.2GHz Flat Panel Antenna 10-14dBi





Product Number: BGS-AN2458-29020540G3

Product Name: 2.4/5.8GHZ 3.7-4.2GHz Flat Panel Antenna 10-14dBi

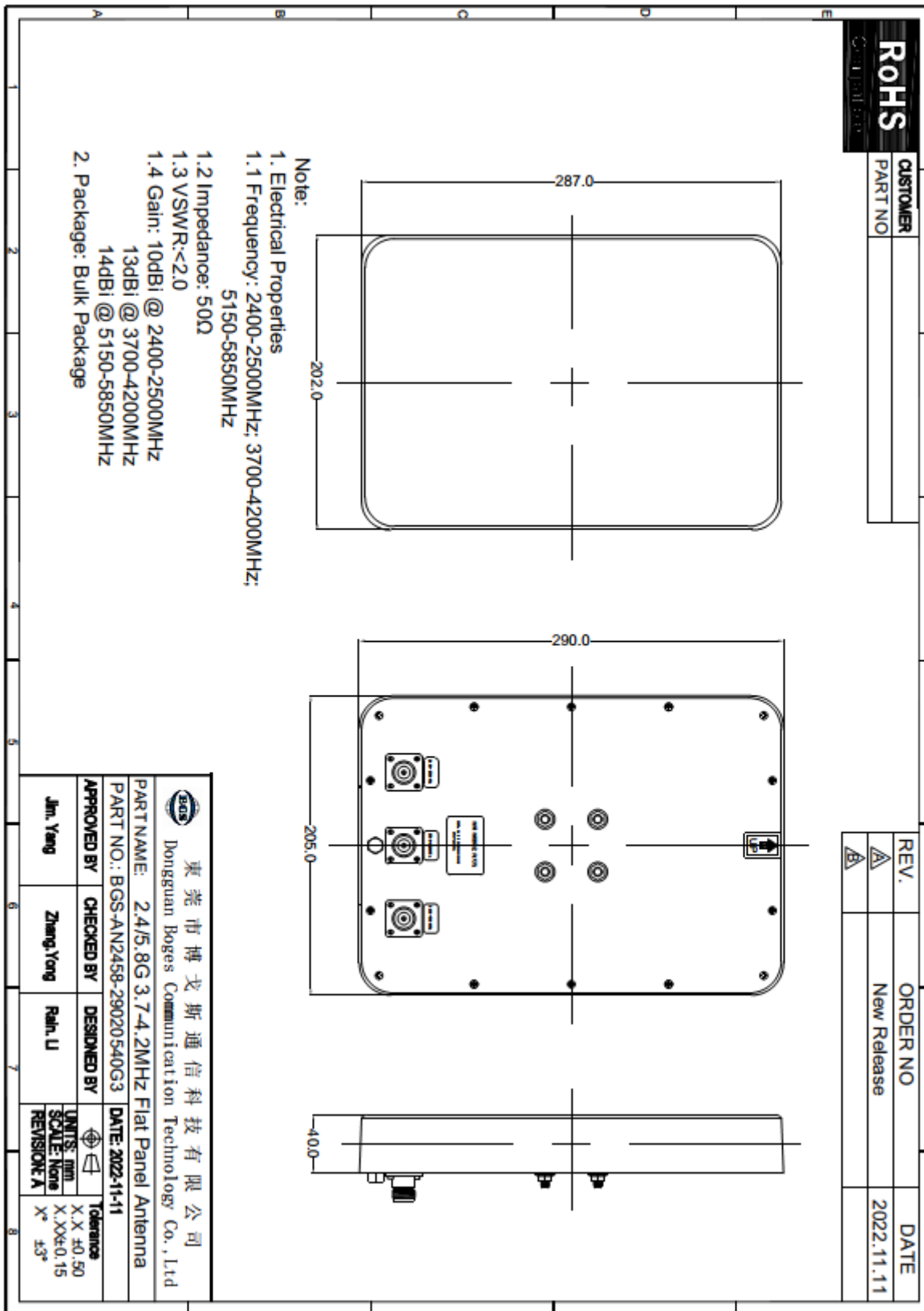




Product Number: BGS-AN2458-29020540G3

Product Name: 2.4/5.8GHZ 3.7-4.2GHz Flat Panel Antenna 10-14dBi

3. Mechanical Drawing





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Product Name: 2.4/5.8GHZ 3.7-4.2GHz Flat Panel Antenna 10-14dBi

RoHS		CUSTOMER		REV.	ORDER NO	DATE
		PART NO			New Release	2022.11.11

U Bolt

Pipe Bracket

L Bracket

	东莞市博戈斯通信科技有限公司 Dongguan Boges Communication Technology Co., Ltd		
PARTNAME: Antenna Accessories			
PART NO.: BGS-AN2458-29020540G3			
APPROVED BY		DATE: 2022-11-11	
Jin Yang			
CHECKED BY		DESIGNED BY	
Zhang Yong		Rui, U	
UNITS: mm		Tolerance	
SCALE: None		X.X ±0.50	
REVISION: A		X.X ±0.15	
		X° ±3°	