

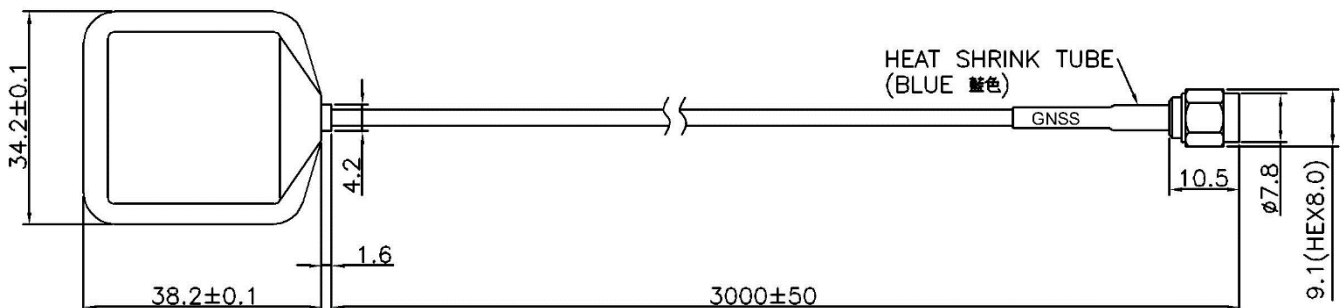


CHINMORE INDUSTRY CO., LTD

Specification

1. Product Name: Magnet Mount Antenna with
GPS/GLONASS/GALILEO
2. Chinmore's No: GPS-01 Series
3. Frequency: GPS: 1575.42 MHz
GLONASS: 1602MHz
GALILEO: 1575.42 MHz
4. VSWR: 2.0:1
5. Cable: RG-174
6. Connector: SMA (M) ST

- ※ *RoHS Compliant*
- ※ *CE Certification*
- ※ *Waterproof IP67 Rated*



ELECTRICAL

Frequency (MHz)	Return Loss (dB)	VSWR
1575.42	-15.11	1.43
1602	-22.98	1.18

Passive Antenna

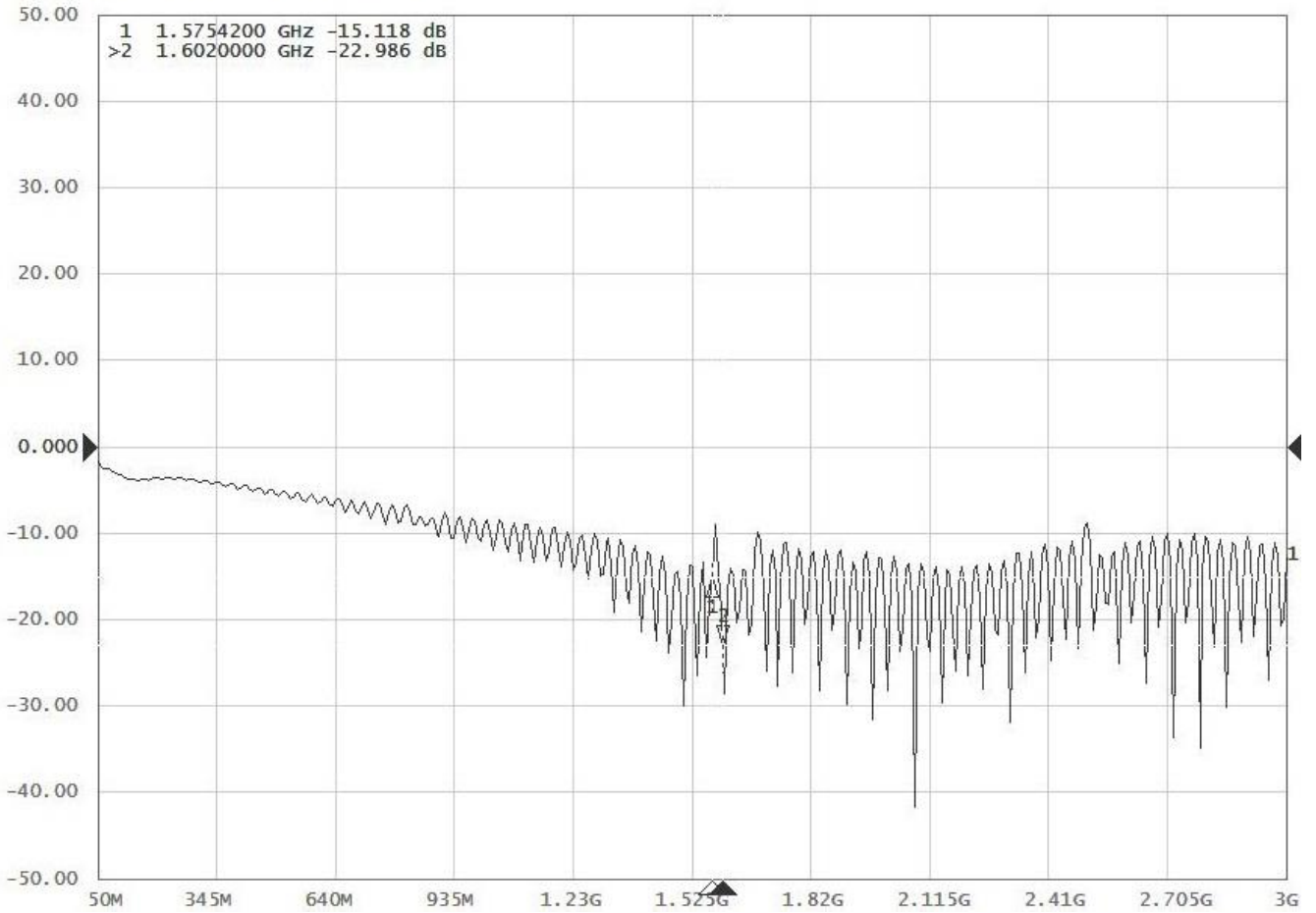
Characteristics	GPS Band	Galileo Band	GLONASS Band	Unit
Working Frequency	1575.42		1598~1606	MHz
VSWR(@Center Frequency*)	2 Max. (typical)			
Characteristics Impedance	50			Ω
Polarization	RHCP			
Gain at Zenith	2.5 (typical) (note.1)		1.9 (typical) (note.1) @1602 MHz	dBi
Efficiency	74.4 (typical)		55.4 (typical) @1602 MHz	%

LNA

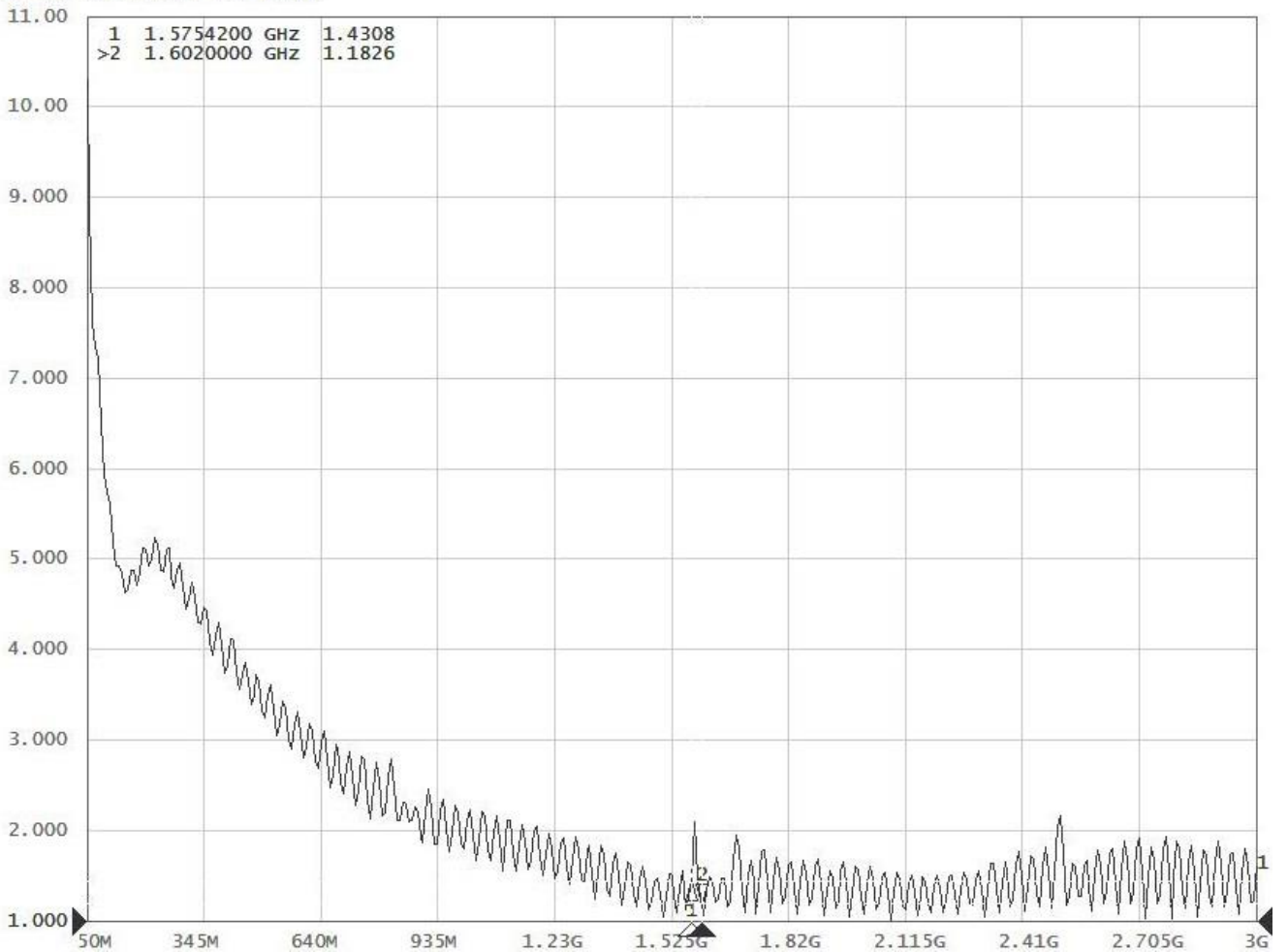
Characteristics	Specification	Unit
Gain	31.0(typical**)@1575.42 MHz, DC3.0V (note.2) 30.3(typical**)@1602 MHz, DC3.3V (note.2)	dB
Noise Figure	1.76(typical**)@1575.42MHz, DC3.0V 2.14(typical**) @1602 MHz, DC3.0V	dB
Output VSWR	2.5 Max. (typical**)	
Input Voltage	DC = 3.0 \pm 0.5	V
Current	15 (typical) at 3V (note 3)	mA

Test Data

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB



Tr1 S11 SWR 1.000/ Ref 1.000

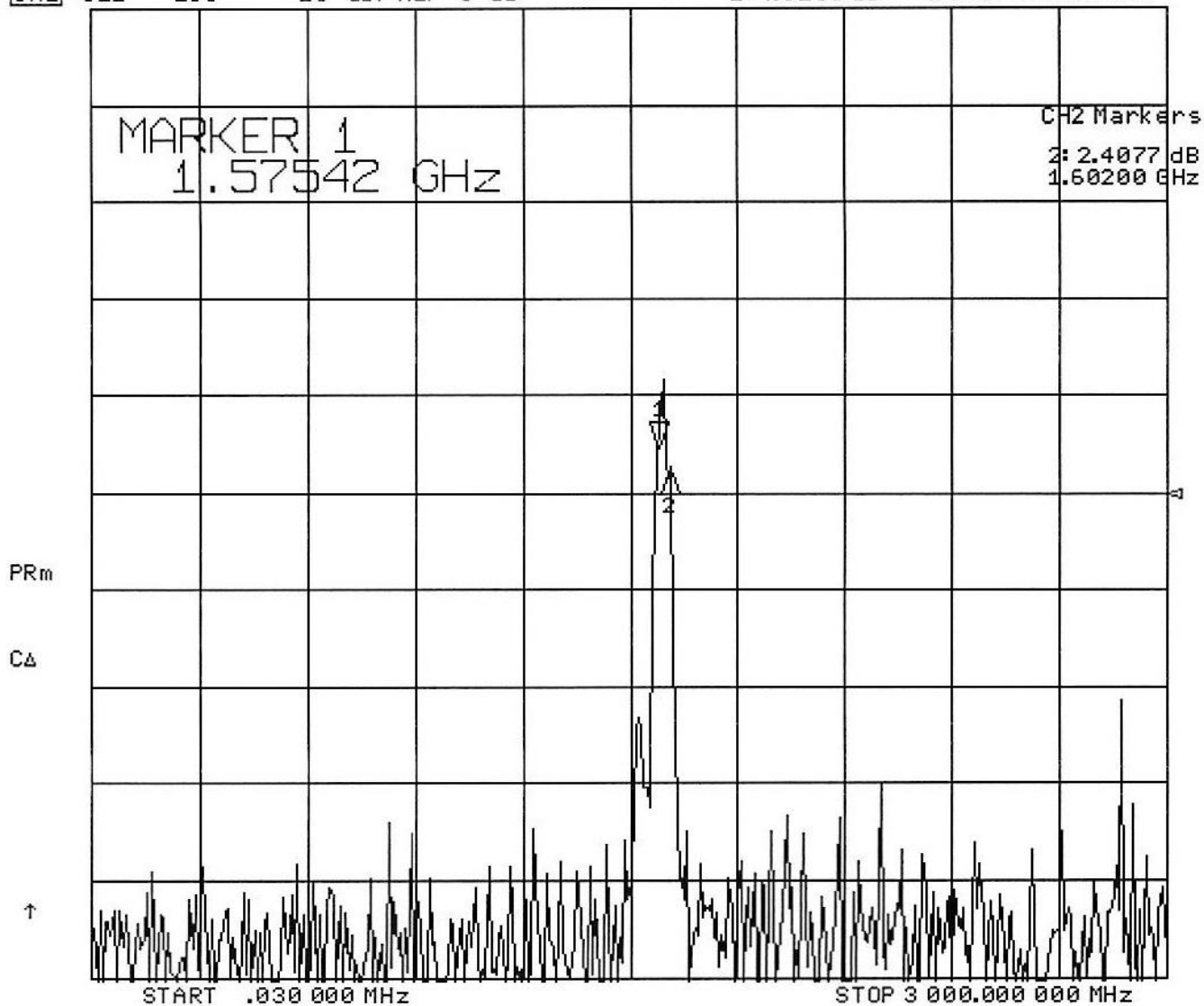


Input Voltage Test(Cable=RG174U 50cm+SMA M Connector)-2.5V

10 Apr 2019 18:02:20

CH2 S21 LOG 10 dB/REF 0 dB

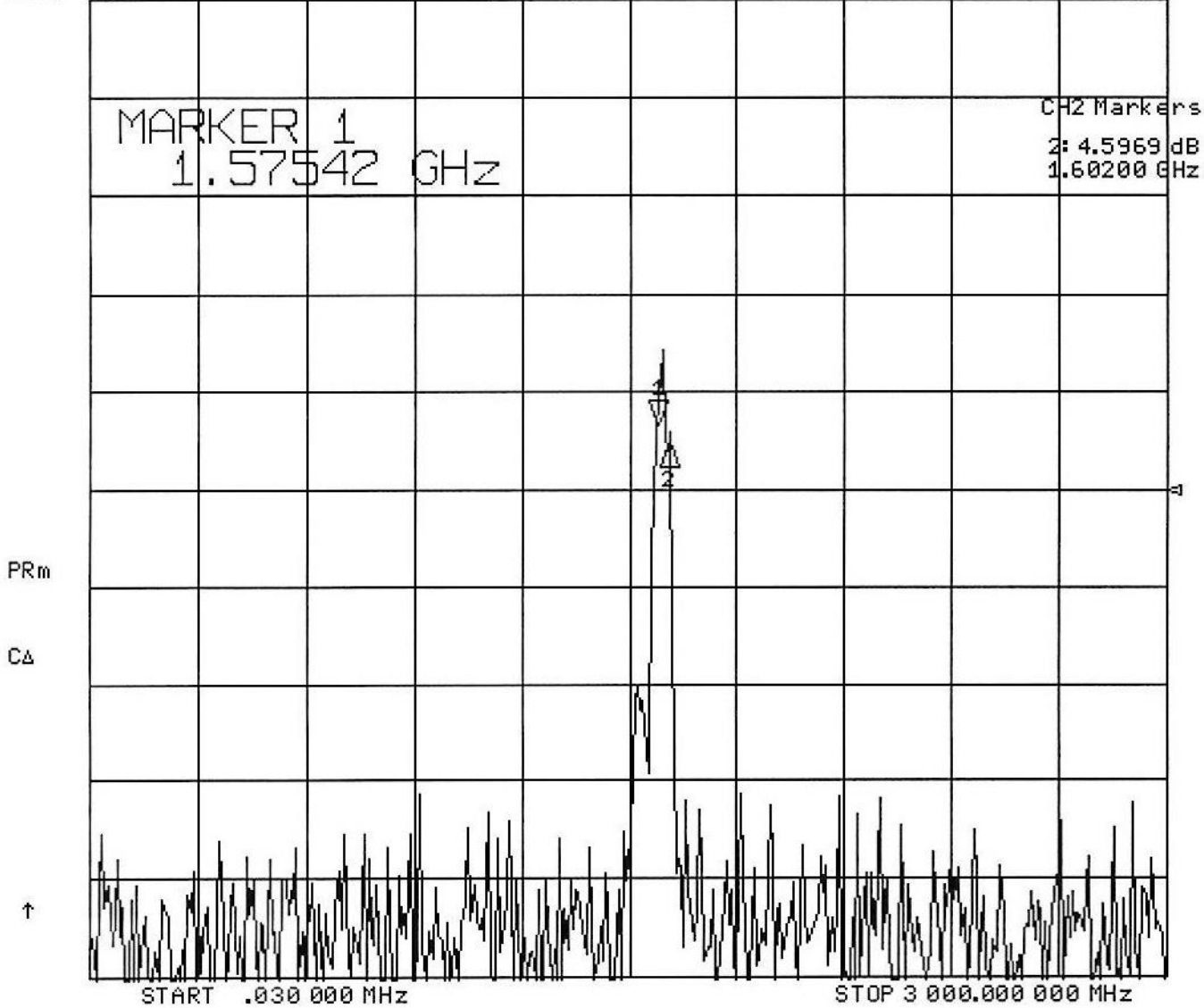
1: 4.5293 dB 1.575420 000 MHz



Input Voltage Test-3.0V

10 Apr 2019 18:02:57

CH2 S21 LOG 10 dB/REF 0 dB 1: 6.5043 dB 1.57542000 MHz

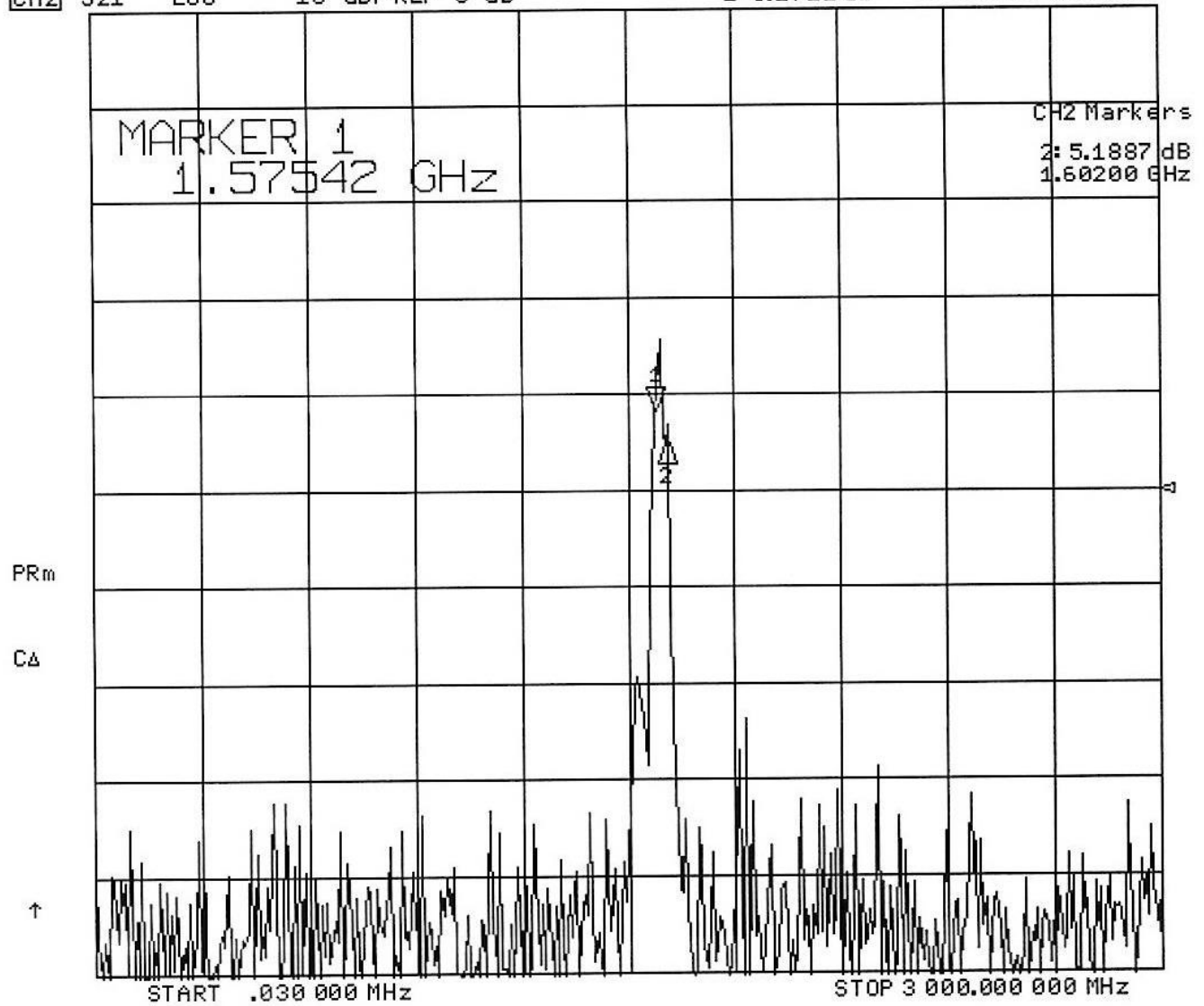


Input Voltage Test-3.5V

10 Apr 2019 18:03:30

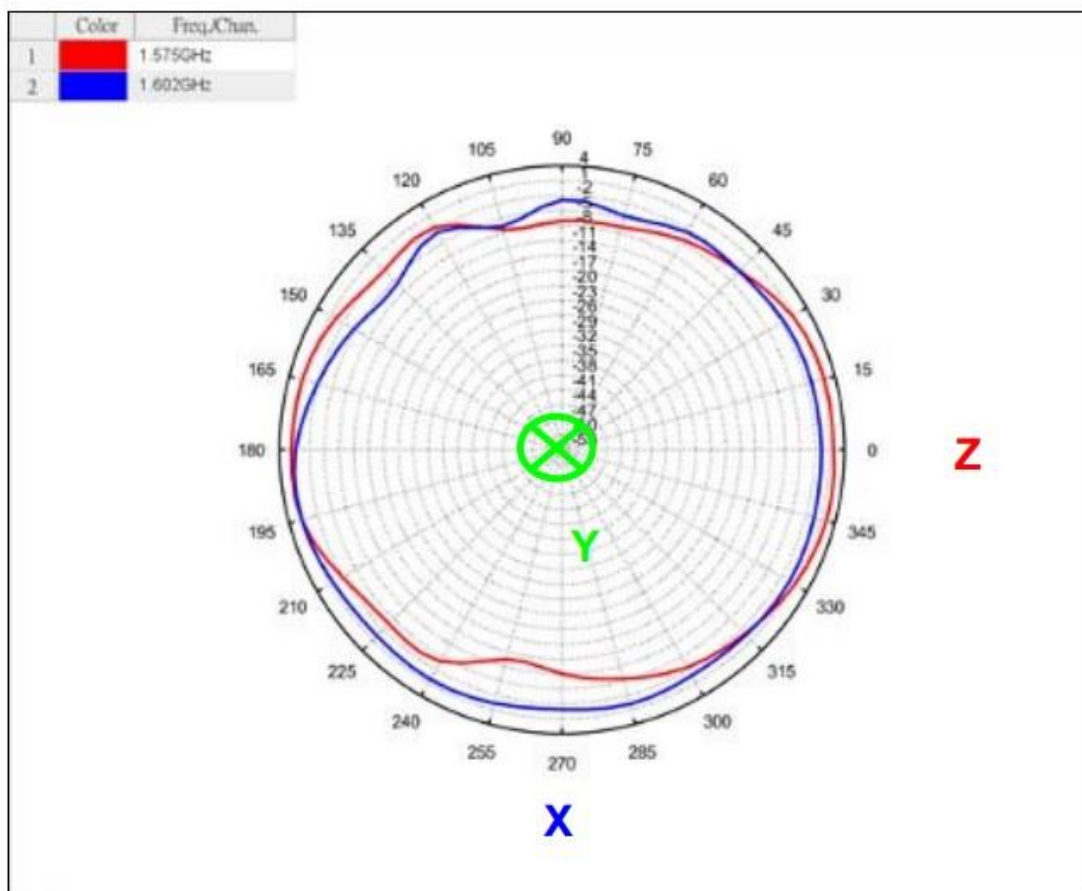
CH2 S21 LOG 10 dB/REF 0 dB

1: 8.1711 dB 1 575.420 000 MHz

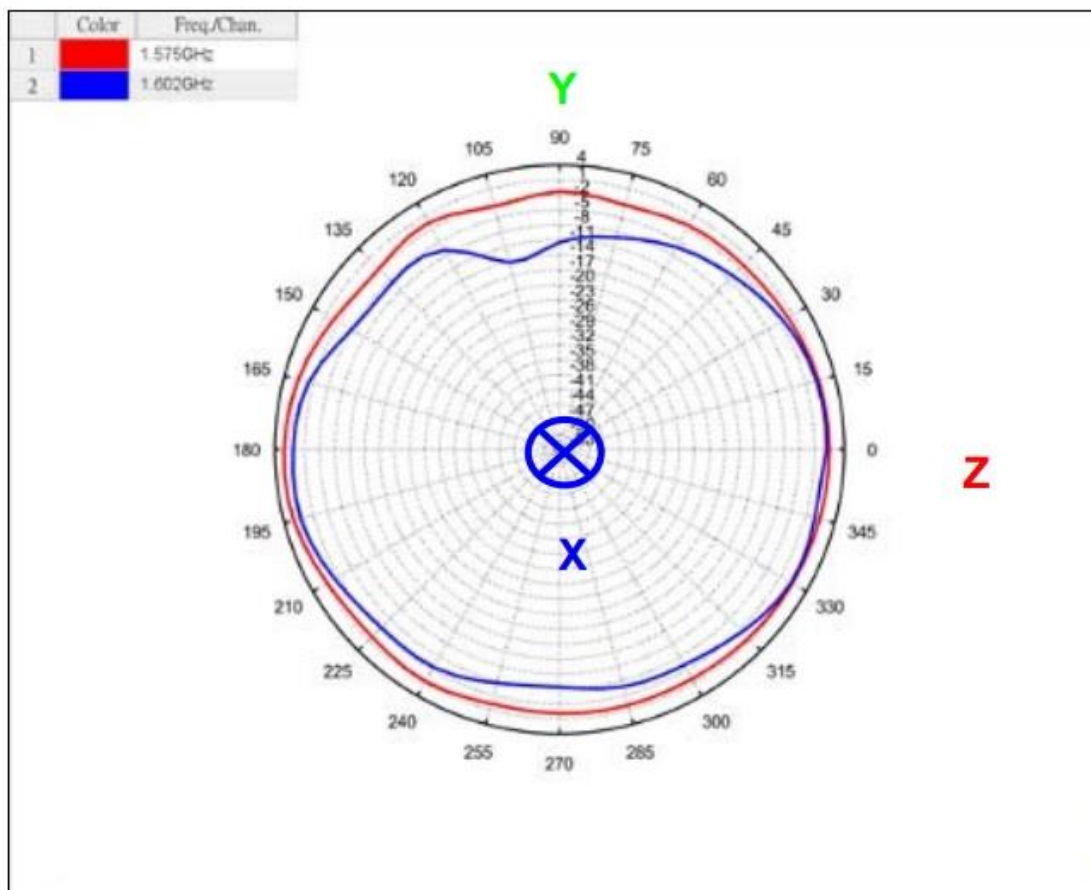


Radiation Gain Pattern

XZ-Plane



YZ-Plane



N.F(Noise Figure):

