Antenna specification

Manufacturer: GEOMATE POSITIONING PTE. LTD.
Address: 13 Tampines Lane #09-53 Singapore 528479

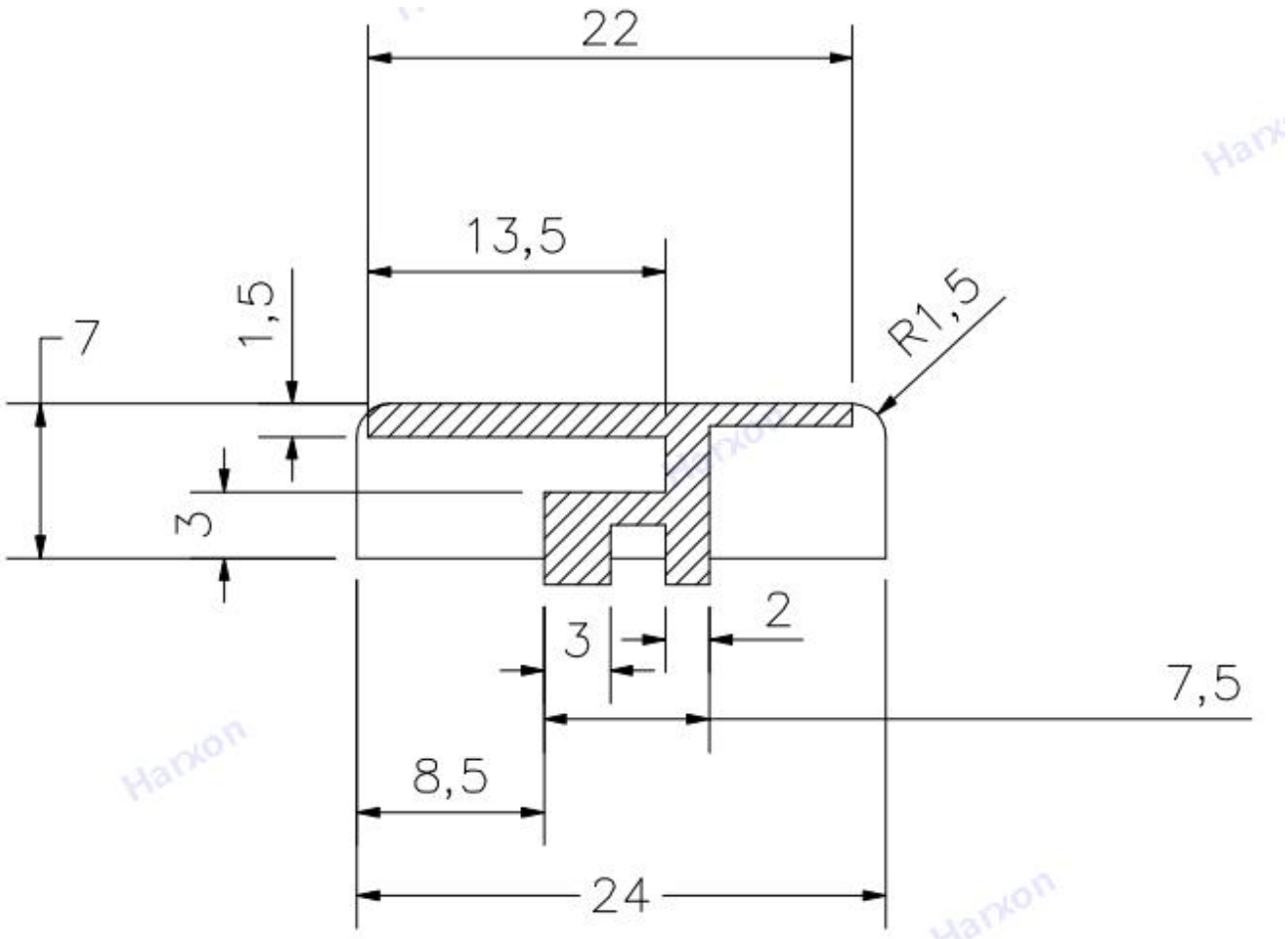
Antenna model: MARB AT V1.0

APPlications

※WIFI/Bluetooth Home RF

※ISM band 2.4GHz/5.5GHz applications

1.Dimensions



2.Specifications

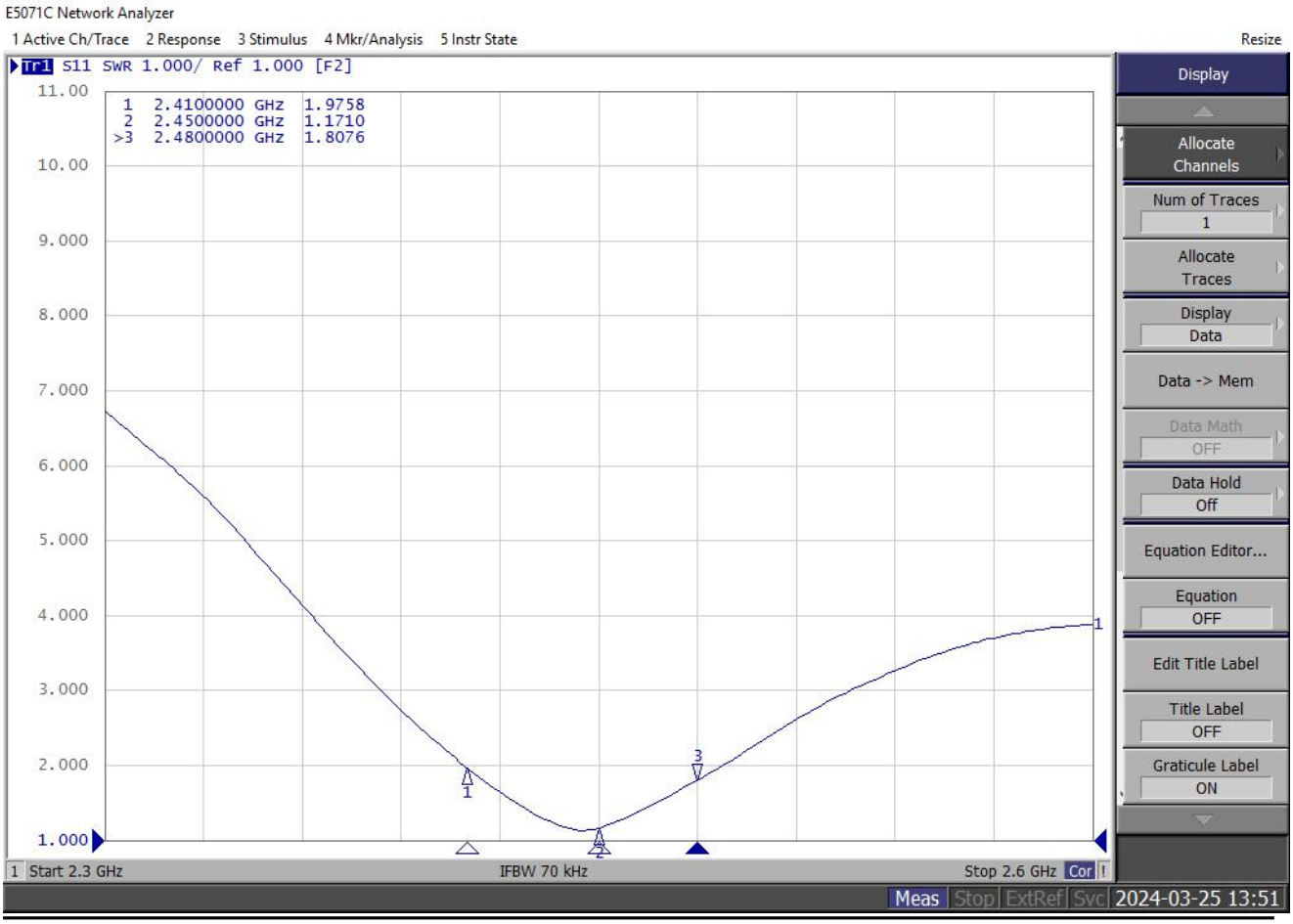
number	Item	Specifications

1	Working Central Frequency	2441 MHz/5560MHz
2	Band Width	(2402-2480)MHz (5150-5850)MHz
3	Gain	0dBi
4	VSWR	Resonance point≤2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50ohm
8	Modulation mode	GFSK

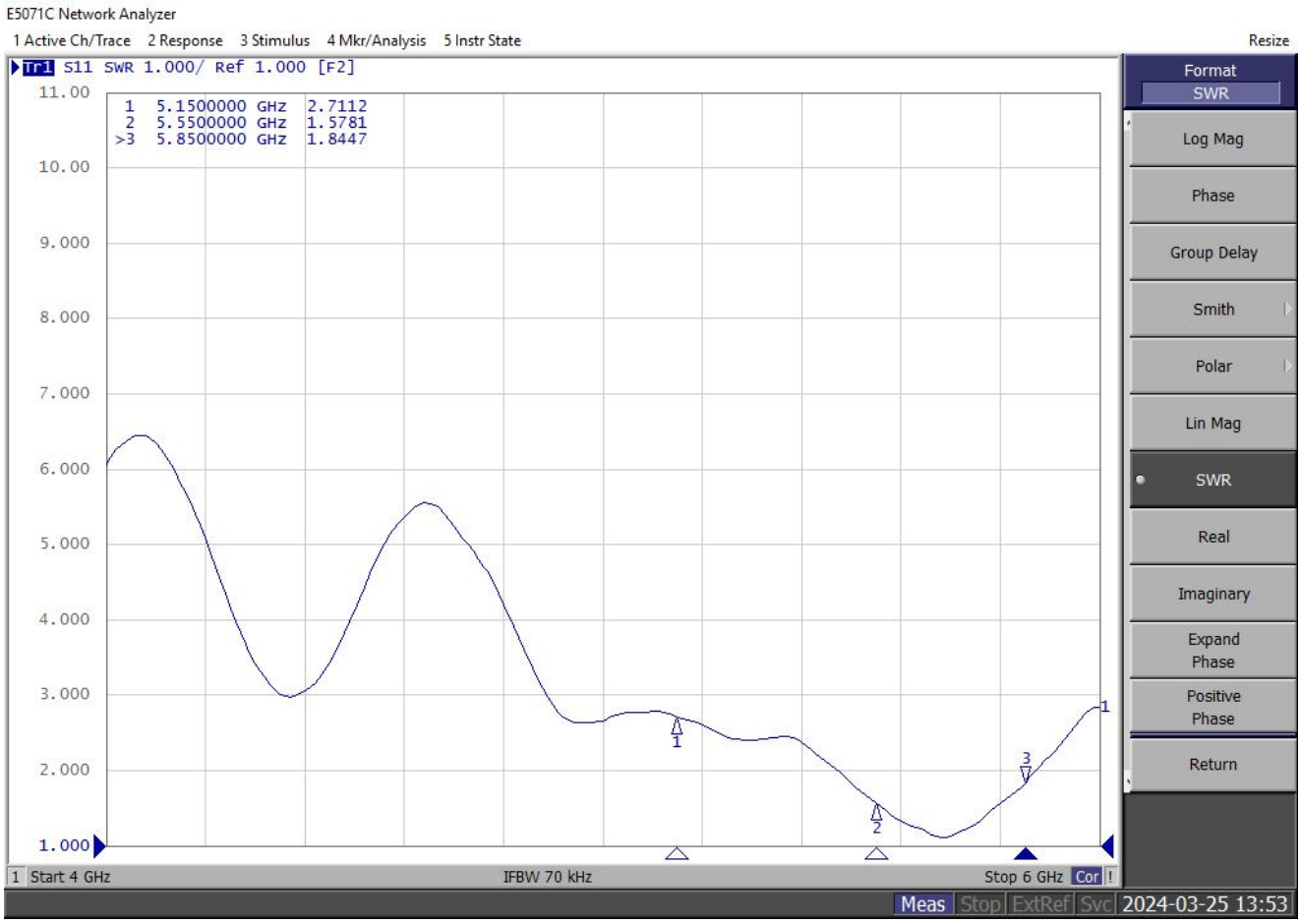
3. simulation parameter

① VSWR

Mkr1: 2410MHz 1.97 Mkr2: 2450MHz 1.17 Mkr3: 2480 MHz 1.8

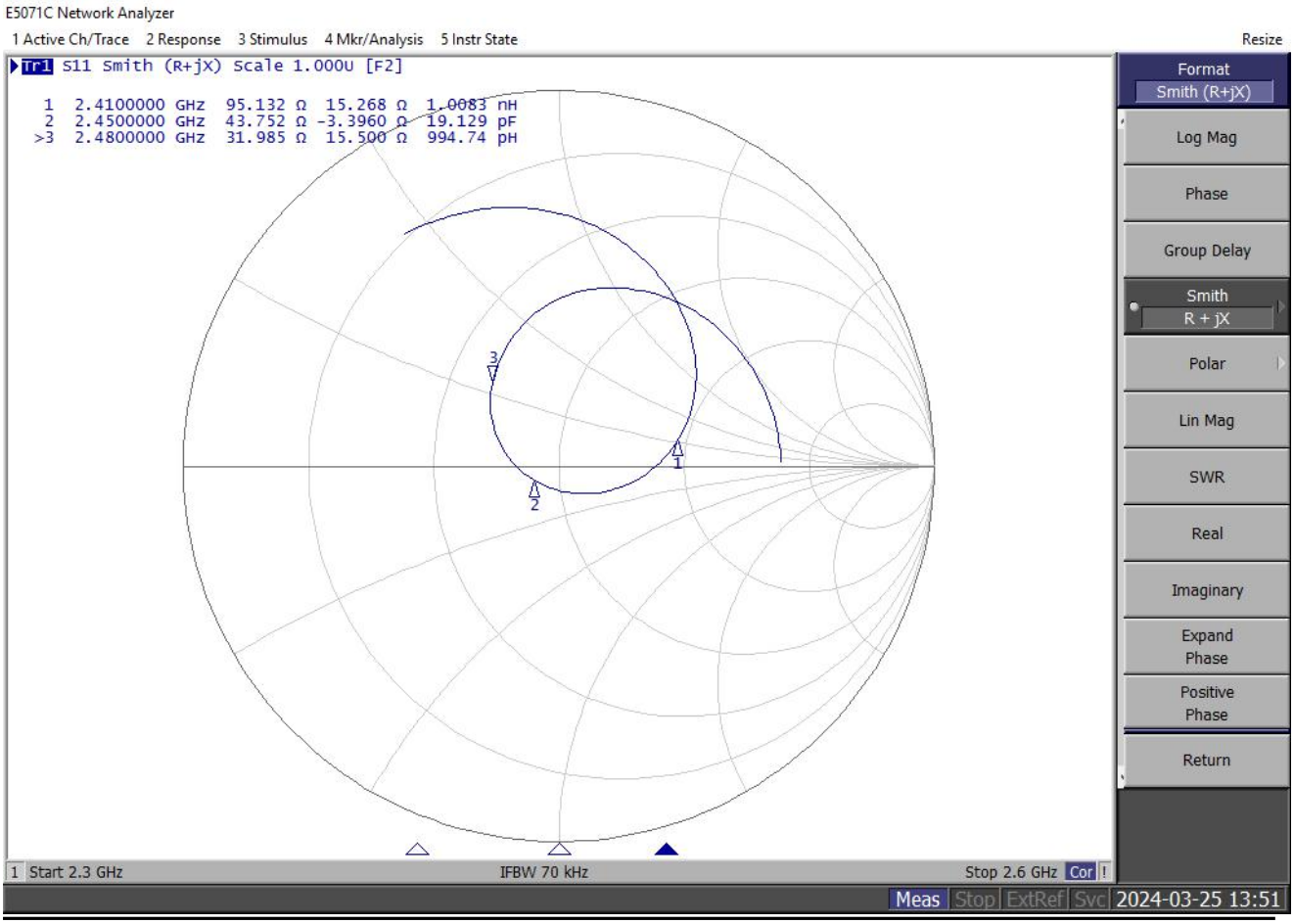


Mkr1: 5150MHz 2.7　Mkr2: 5550MHz 1.57　Mkr3: 5850 MHz 1.84

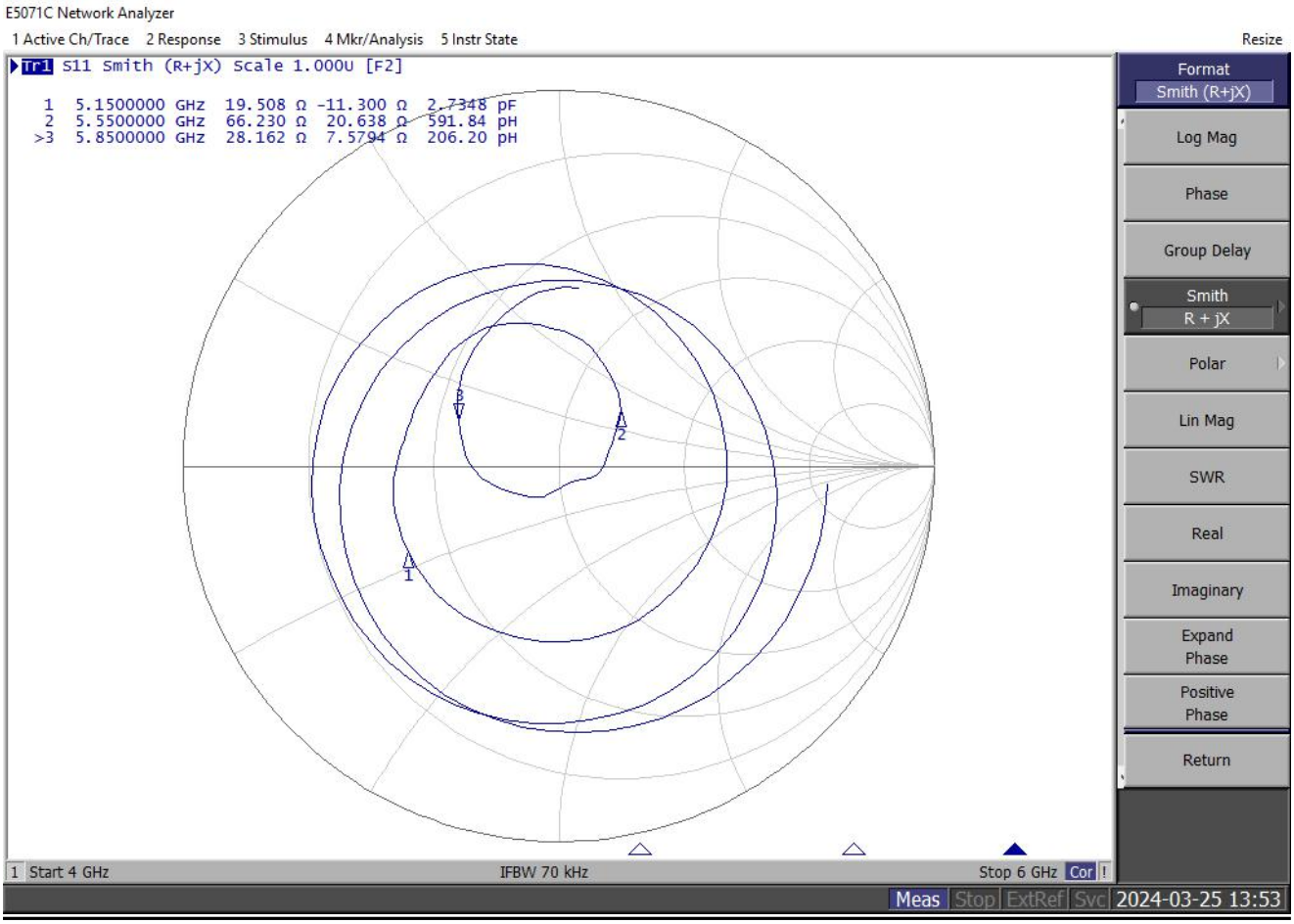


②Smith Chart

Mkr1: 2410MHz 95.1　Mkr2: 2450MHz 43.7　Mkr3: 2480MHz 31.9

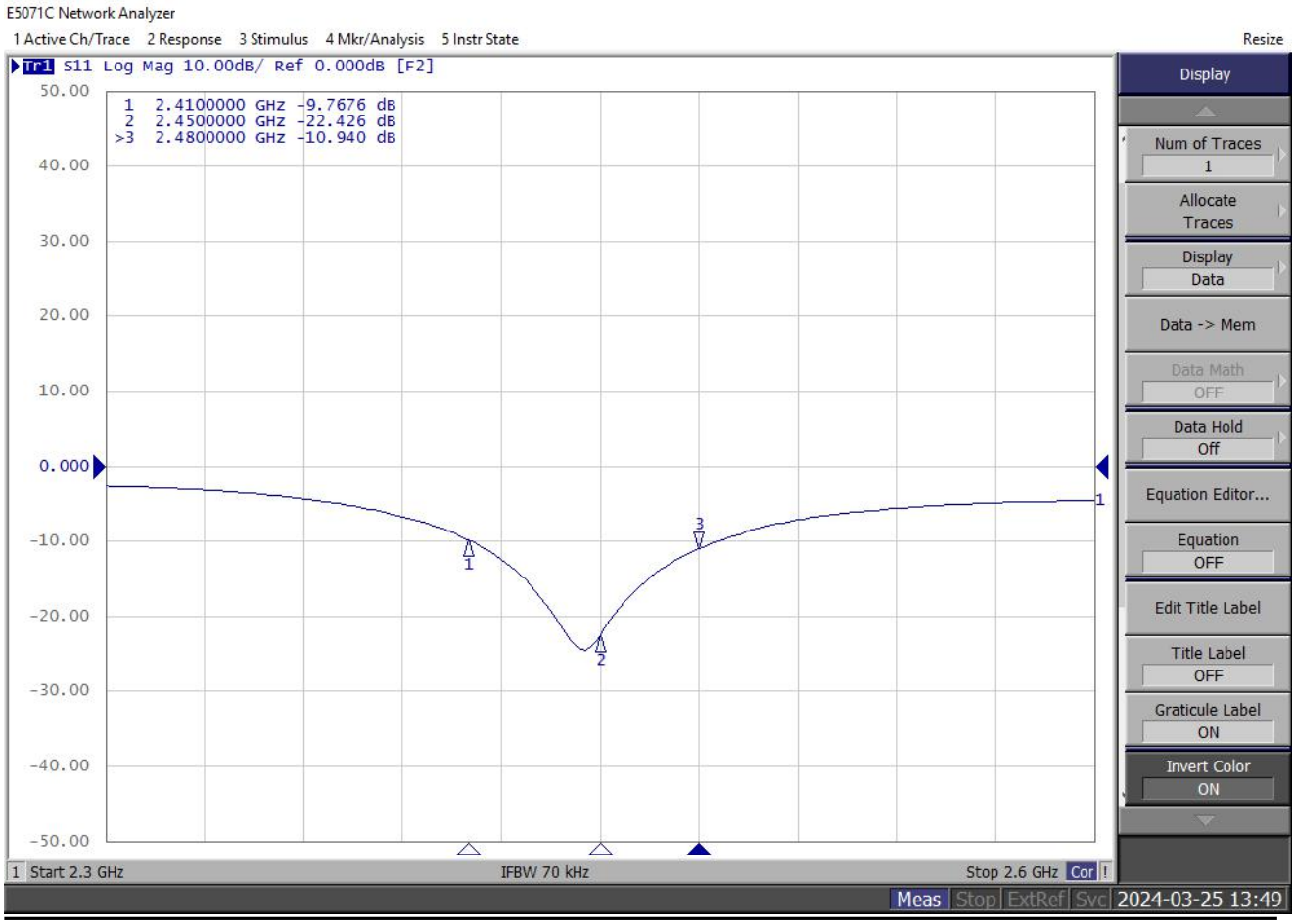


Mkr1: 5150MHz 19.5 Mkr2: 5550MHz 66.2 Mkr3: 5850 MHz 28.1

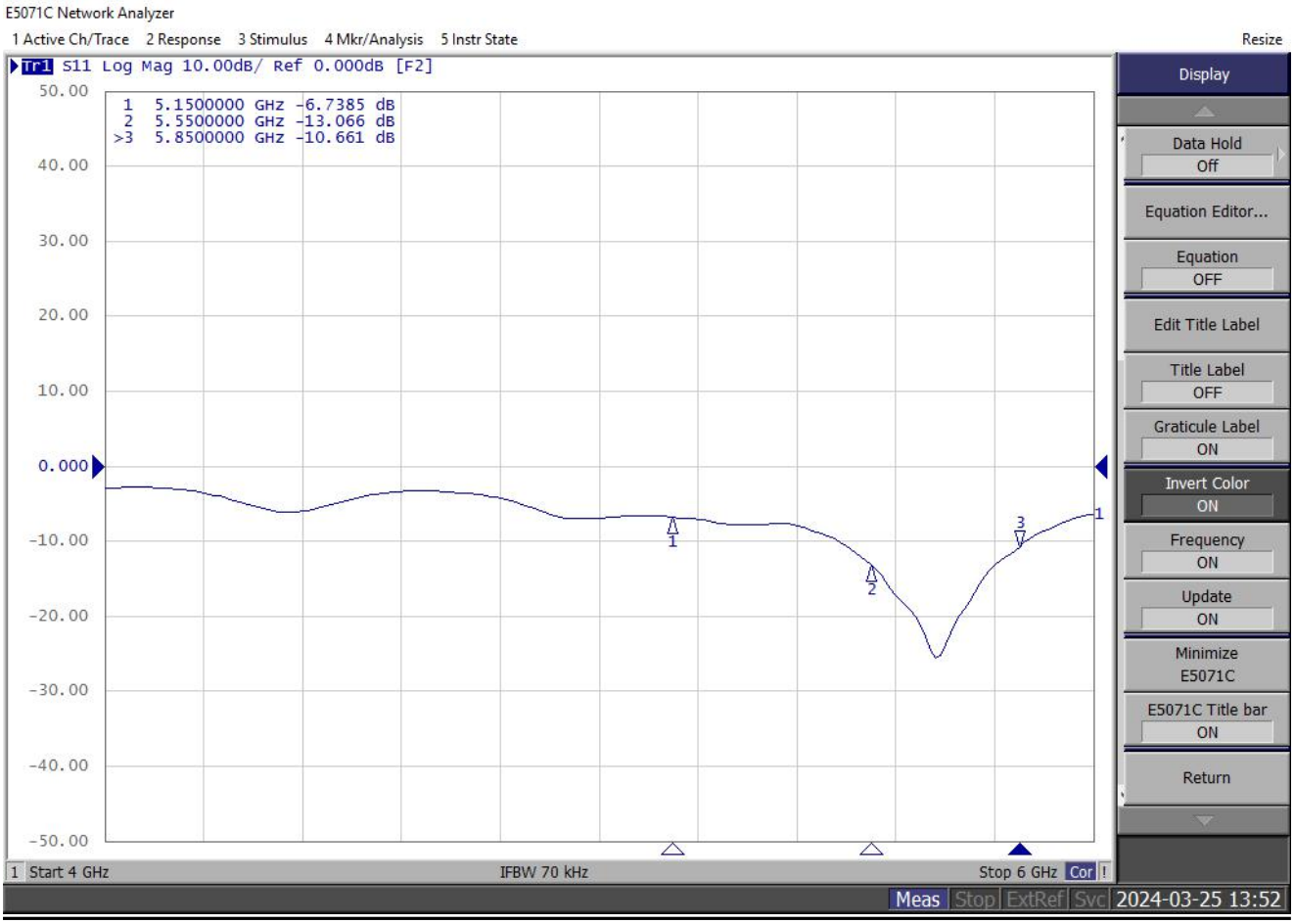


③Return Loss

Mkr1: 2410MHz -9.7 Mkr2: 2450MHz -22.4 Mkr3: 2480 MHz -10.9

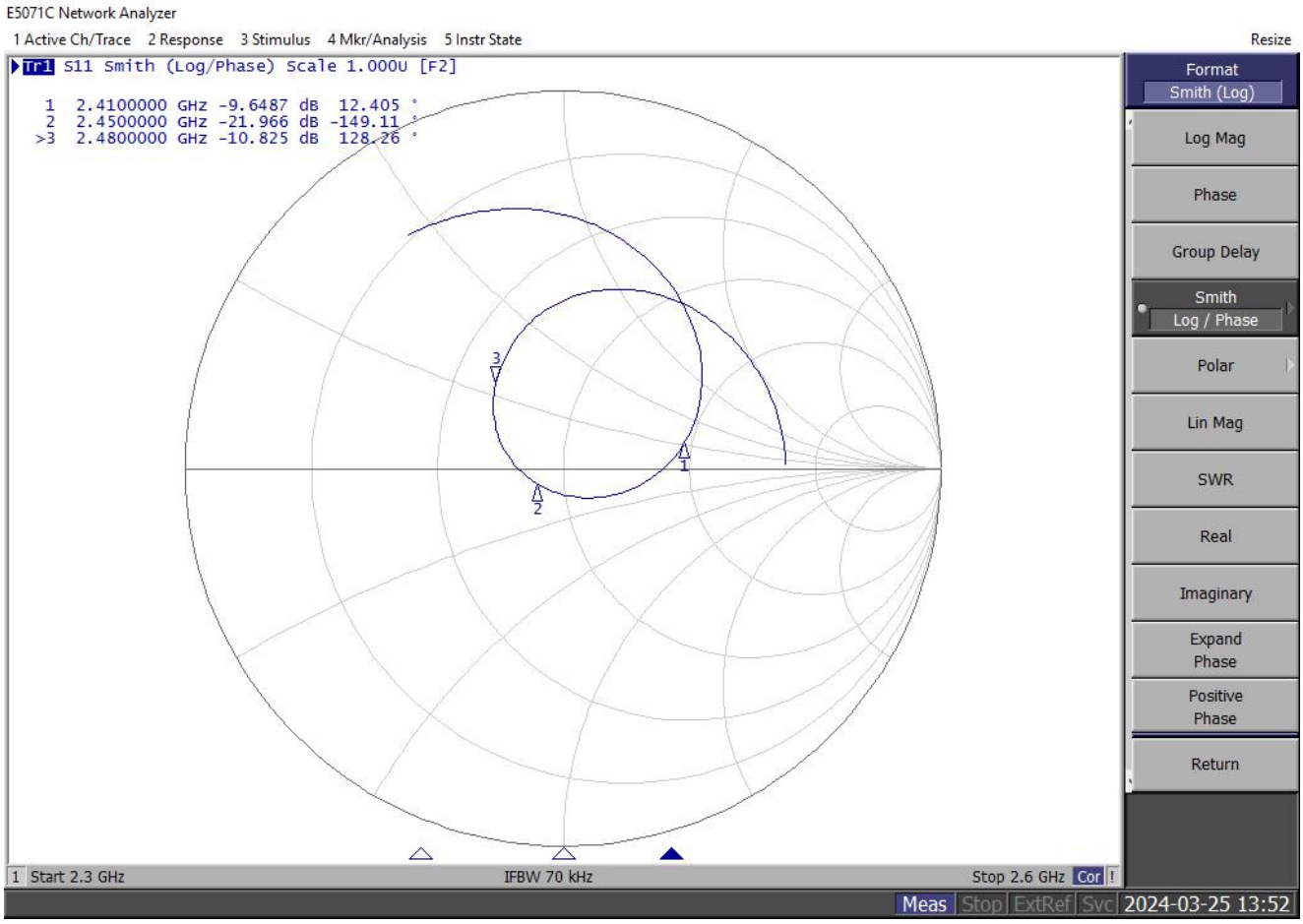


Mkr1: 5150MHz -6.7 Mkr2: 5550MHz -13 Mkr3: 5850 MHz -10.6

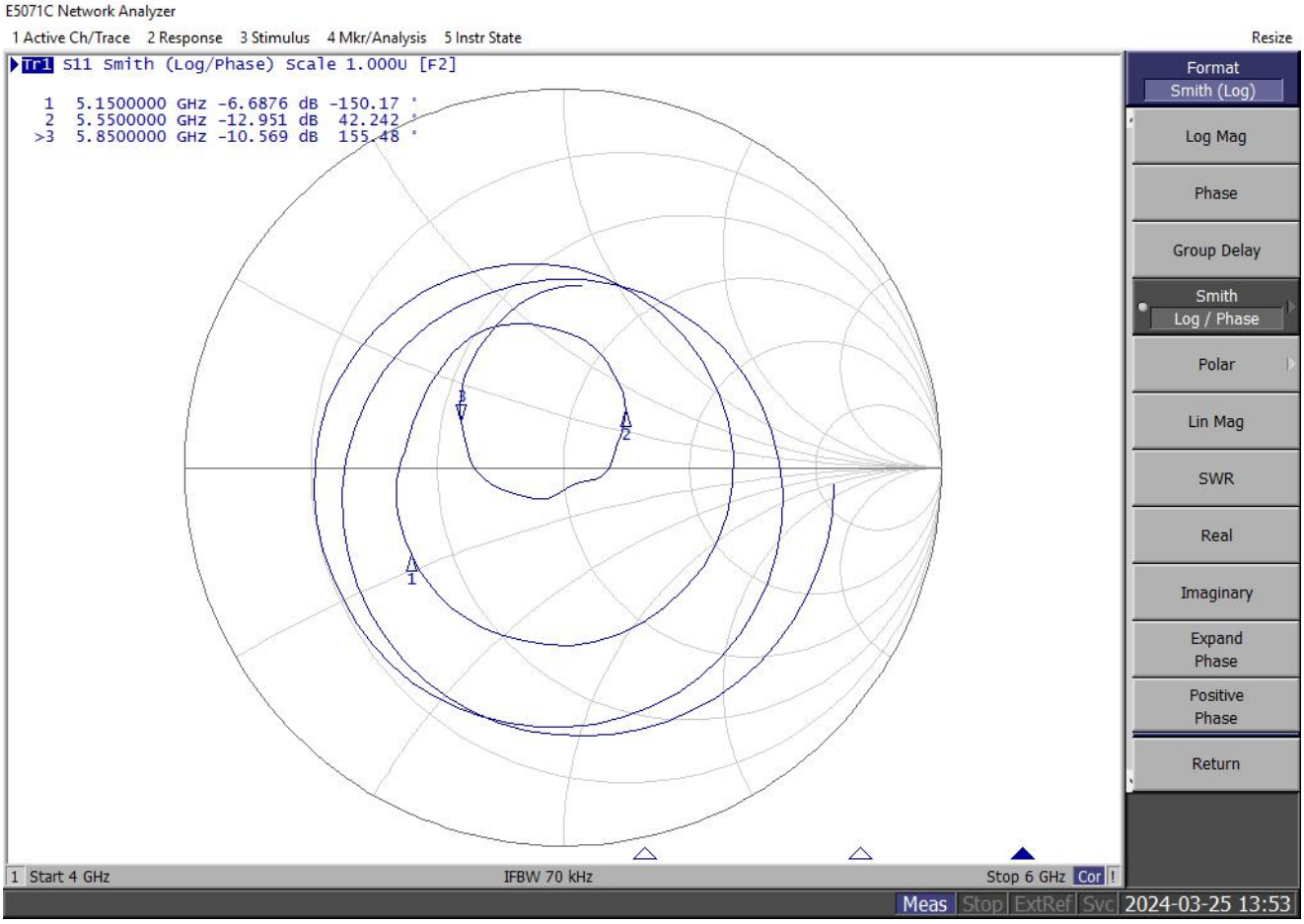


④Smith Chart

Mkr1: 2410MHz -9.6 Mkr2: 2450MHz -21.9 Mkr3: 2480 MHz -10.8

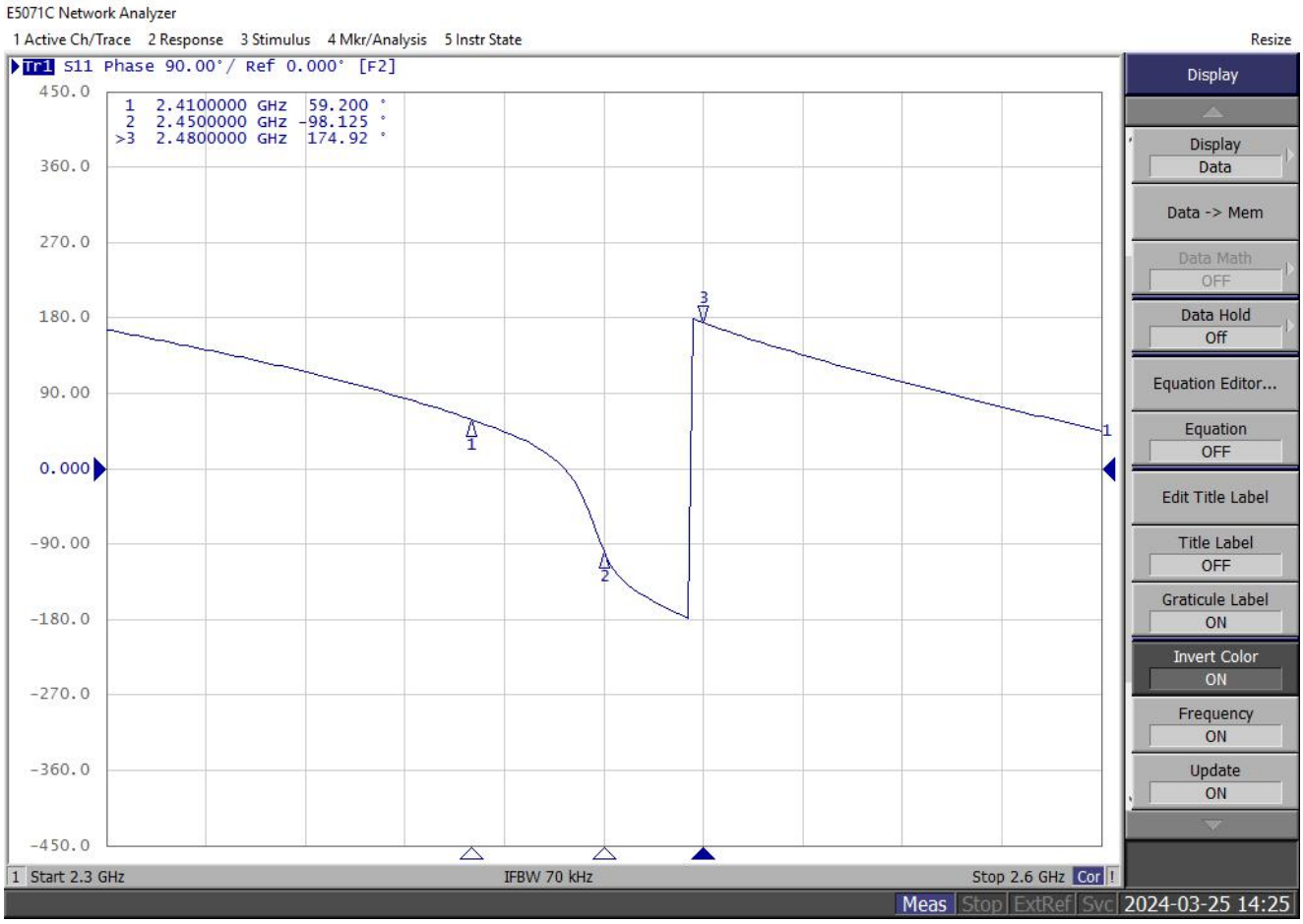


Mkr1: 5150MHz -17.3 Mkr2: 5550MHz -11.4 Mkr3: 5850 MHz -11.6

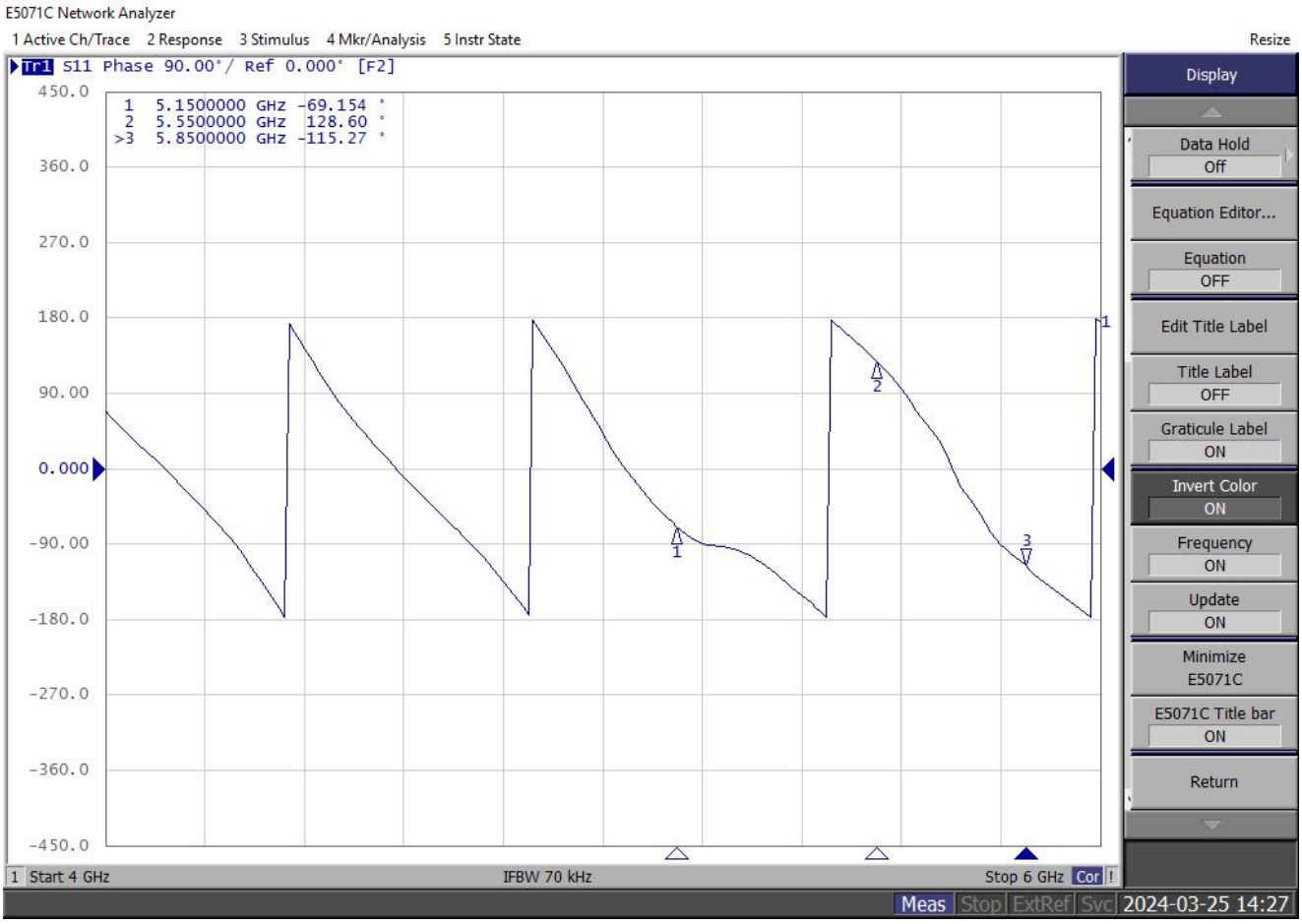


⑤Phase

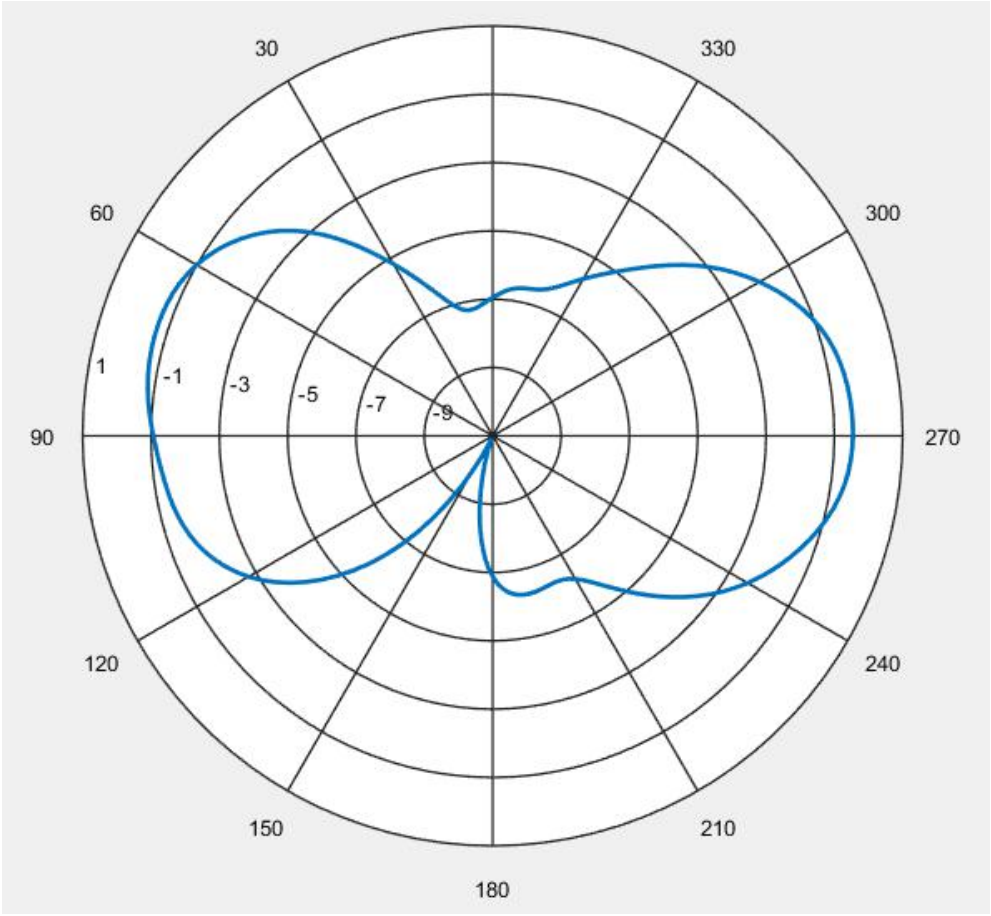
Mkr1: 2410MHz 59　Mkr2: 2450MHz -98　Mkr3: 2480MHz 174



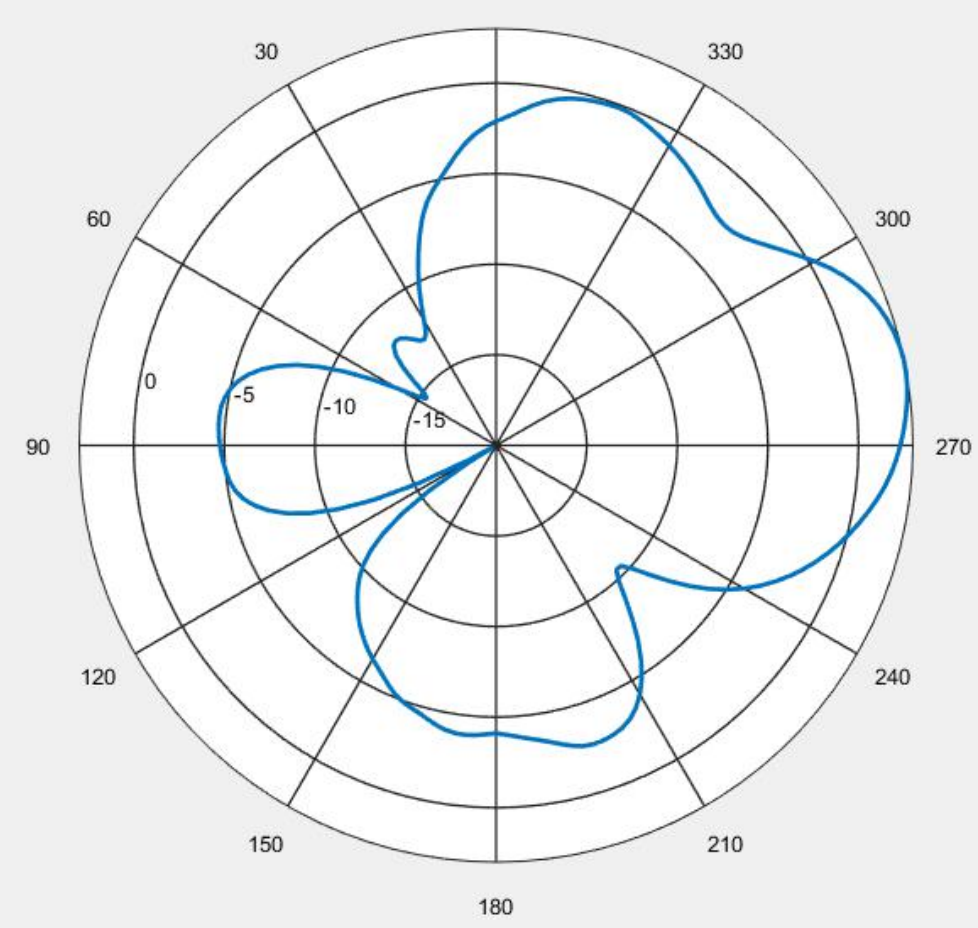
Mkr1: 5180MHz -69.1 Mkr2: 5560MHz 128.6 Mkr3: 5825 MHz -115.2



4. Radiation Patterns

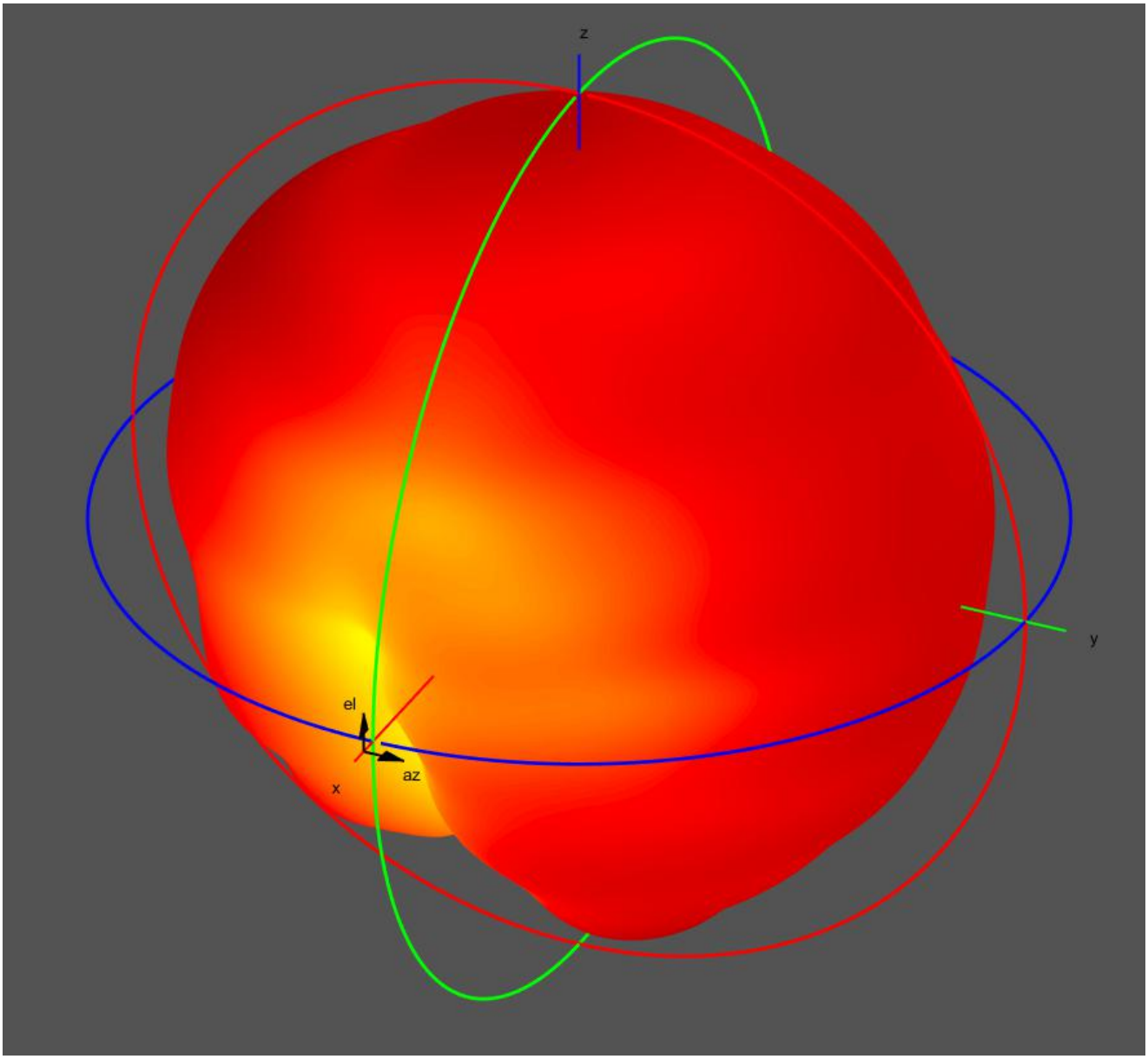


2450MHz

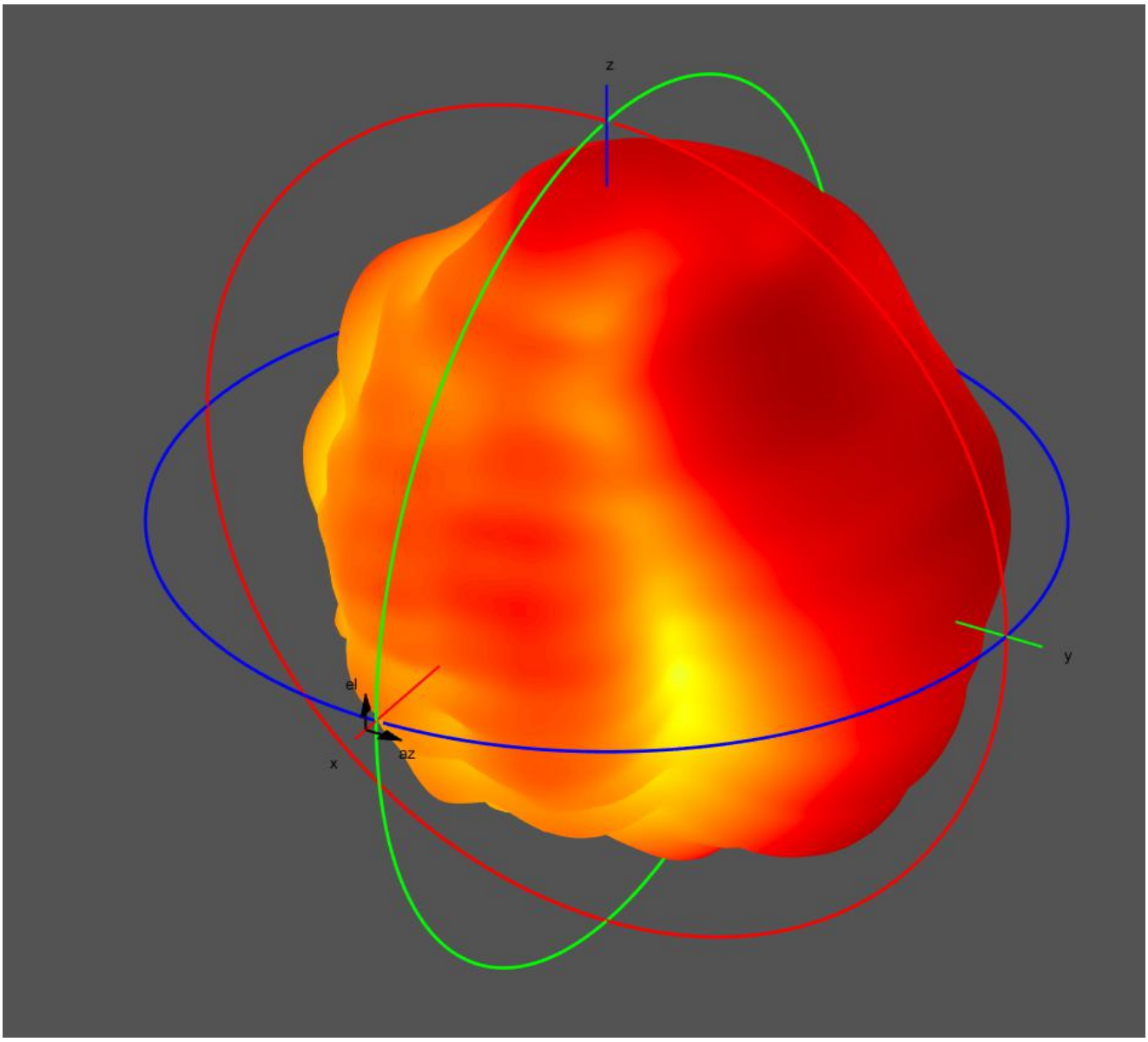


5550MHz

- 3D Radiation patterns



2450MHz



5550MHz