

Antenna Test Report

Index:

1. Overview
2. Revision History
3. Test Item & Equipment
4. Matching Circuit
5. S Parameter Test
6. Active Test
7. Conducted Emission Test
8. Environmental Processing

Project Name: Helmet_AC281
Author: YangYongCheng
Update: 2022-11-22

OverView

CUSTOMER NAME	MOKO TECHNOLOGY LIMITED	PROJECT NAME	Helmet_AC281
Items		Details	
• FREQUENCY		2400MHz-2500MHz	
• PROJECT TYPE			
• ANTENNA SPACE			
• FEED & GROUND PAD			
• SENSITIVE ELEMENTS			
• ANTENNA TYPE			
• PCB			
• OTHERS			

Revision History

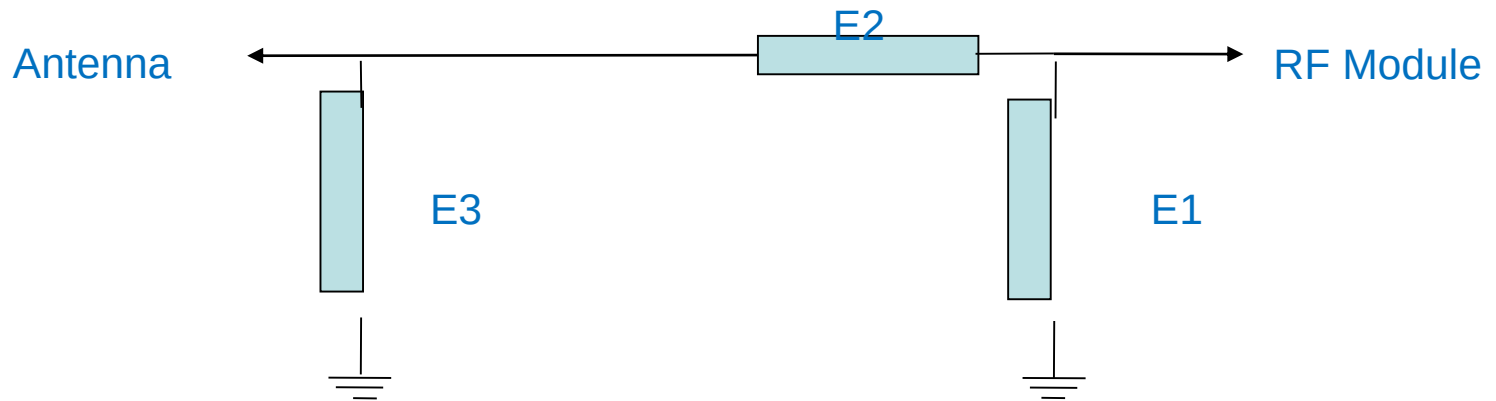
Date	Revision	Author	Description of changes
20221122	A	YangYongCheng	Passive Antenna Test

Test Item & Equipment

List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone1800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	



Matching Circuit

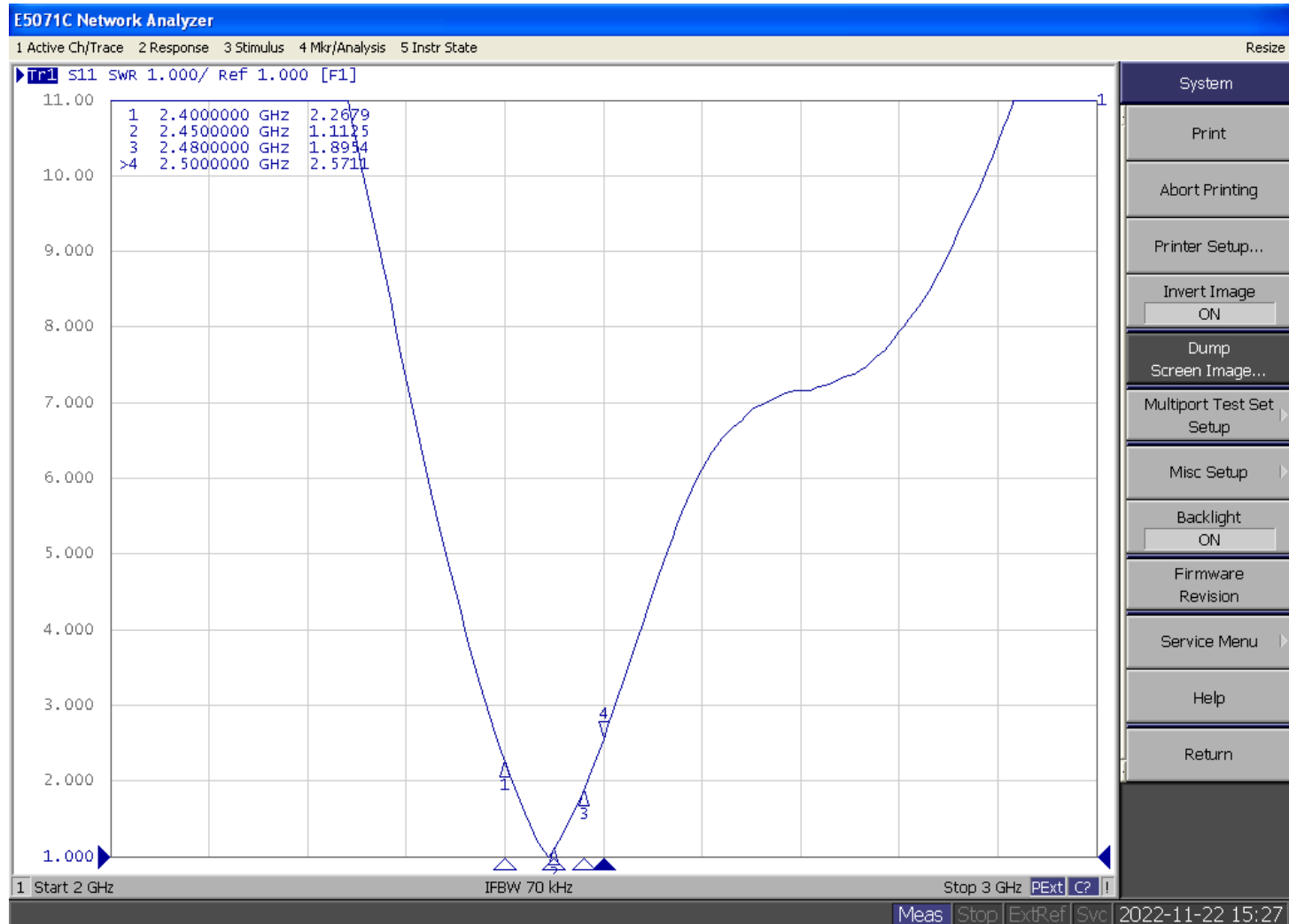


Element	Value
E1(0402)	NC
E2(0402)	5.6NH
E3(0402)	NC

Antenna



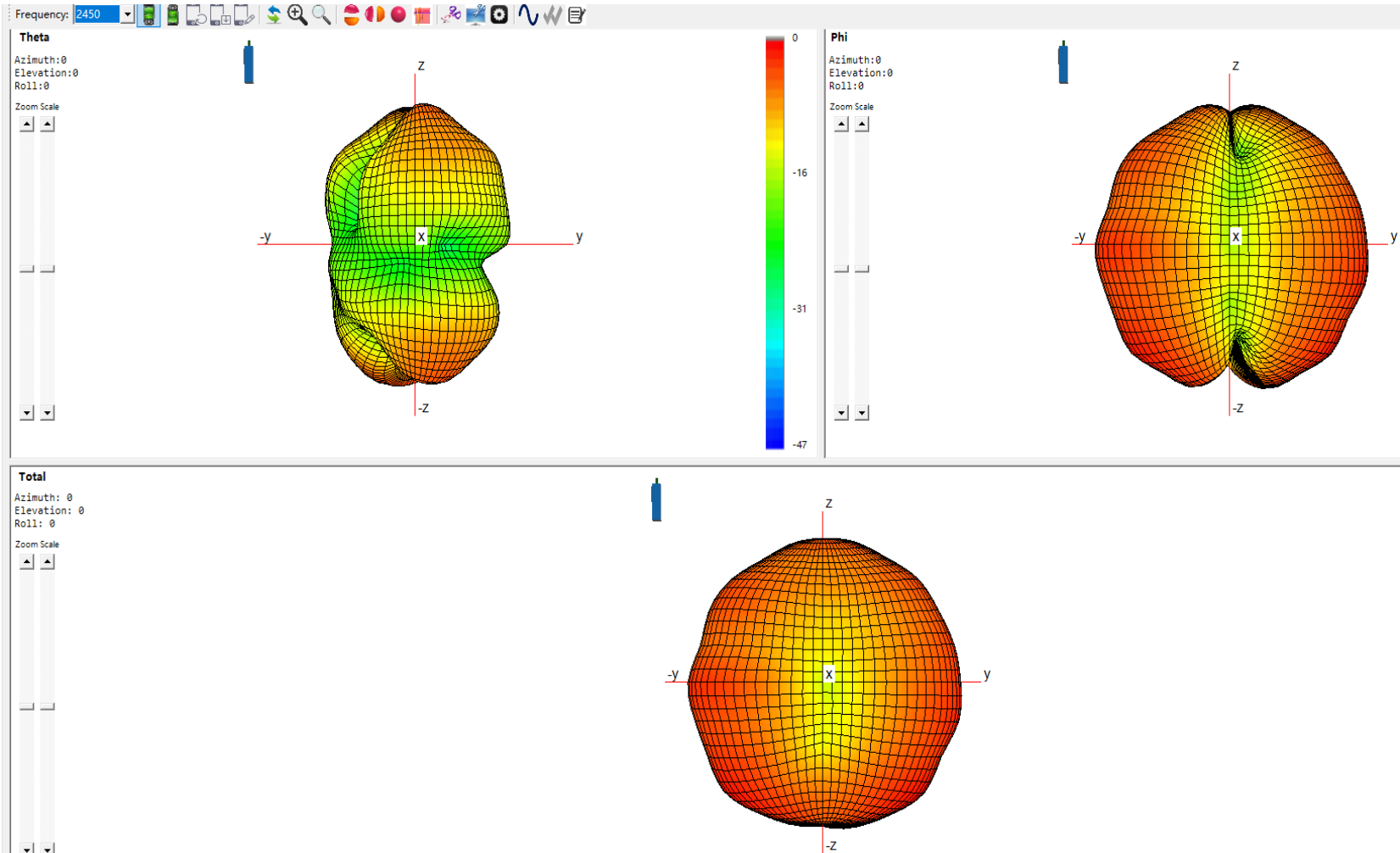
VSWR



Passive Antenna Test

Freq (MHz)	Gain (dBi)	Efficiency (%)
2400	-0.41	36.05
2410	-0.24	39.11
2420	-0.34	38.50
2430	-0.05	39.06
2440	0.12	38.24
2450	-0.03	36.69
2460	-0.11	37.20
2470	-0.03	37.40
2480	0.13	36.10
2490	0.14	35.87
2500	-0.13	35.31

3D Antenna Radiation Pattern (2450MHz)



2D Antenna Radiation Pattern (2450MHz)

