

SPECIFICATION

Model No.	TP1
APP. Type	Bluetooth Head set
Antenna	
TYPE	PIFA
Maker	

MAY, 29, 2006

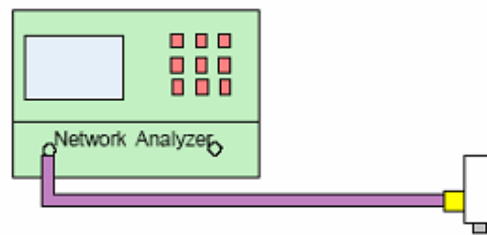
	DESIGNED	CHECKED	APPROVED
MOVON			

MOVON CORPORATION Research & Development Laboratory Contact : LEE TAE HYUNG : Richard.lee@movon.co.kr

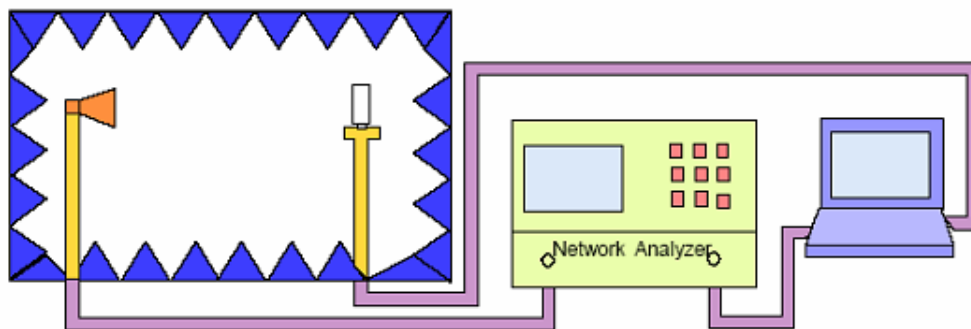
1. MEASUREMENT

For the antenna measurement, Frequency and VSWR is measured by using Network Analyzer after setting, while Gain is measured in the shield room

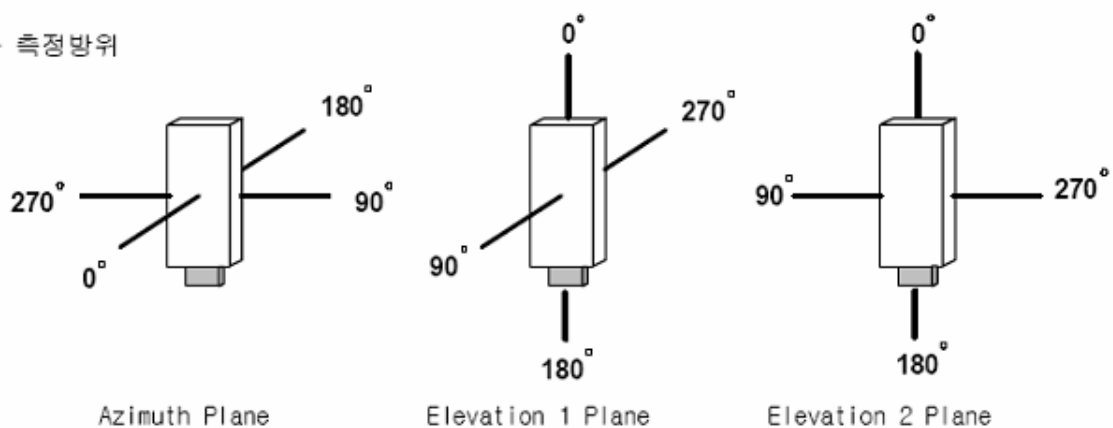
- Frequency, VSWR 측정



- Gain 측정



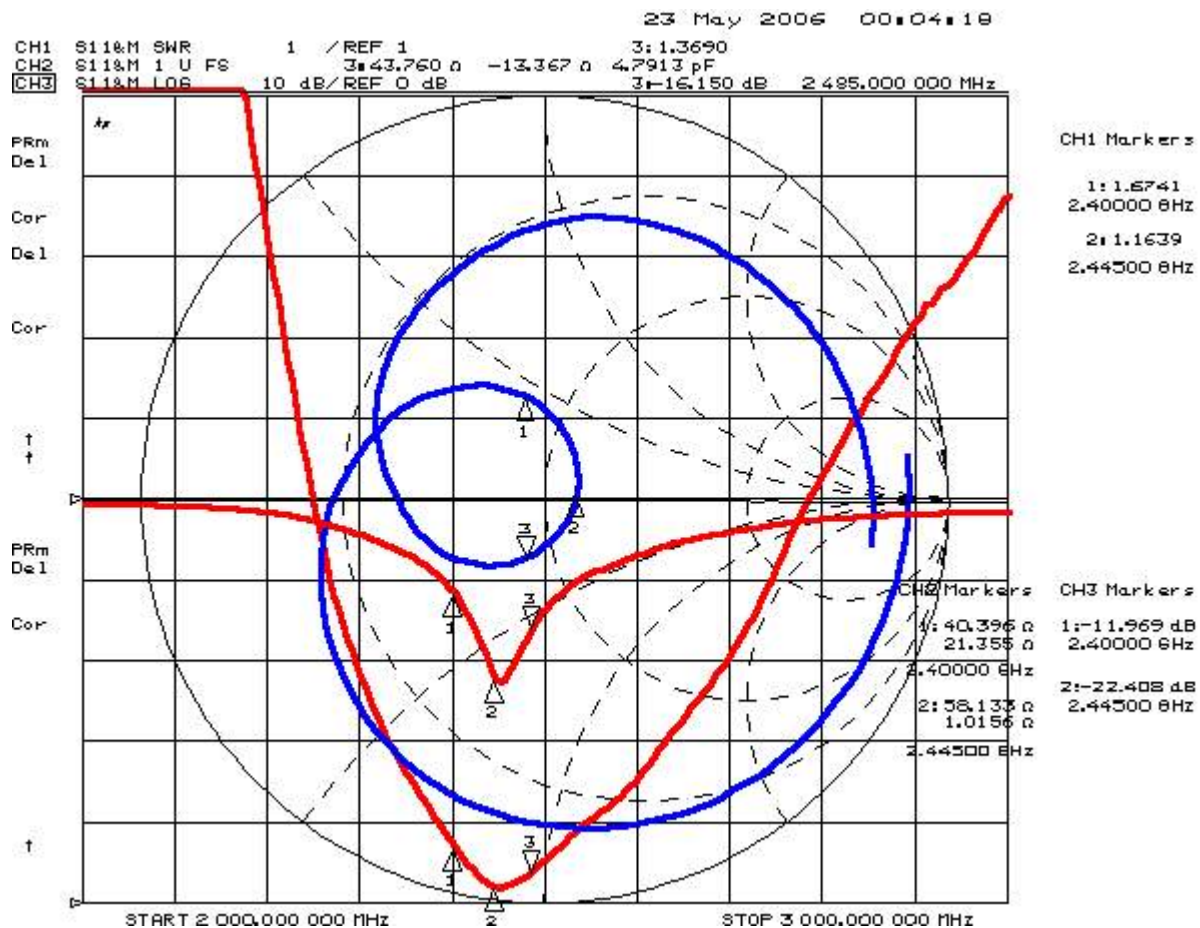
- 측정방위



2.ELECTRICALLY CHARACTERISTIC

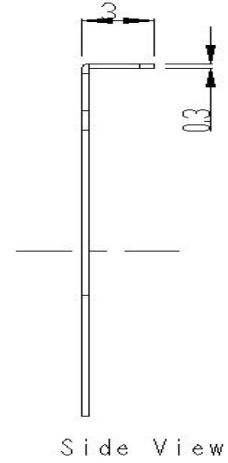
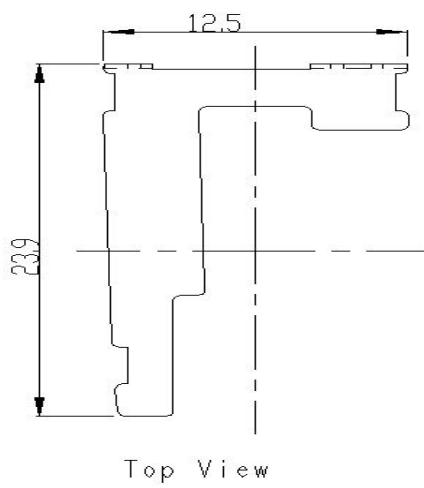
Antenna Test results Sheet

ITEM	SPEC
Frequency Range [MHz]	2400 ~ 2485
V.S.W.R.	2.0 Max
Gain [dBi]	0
Bandwidth [MHz]	100

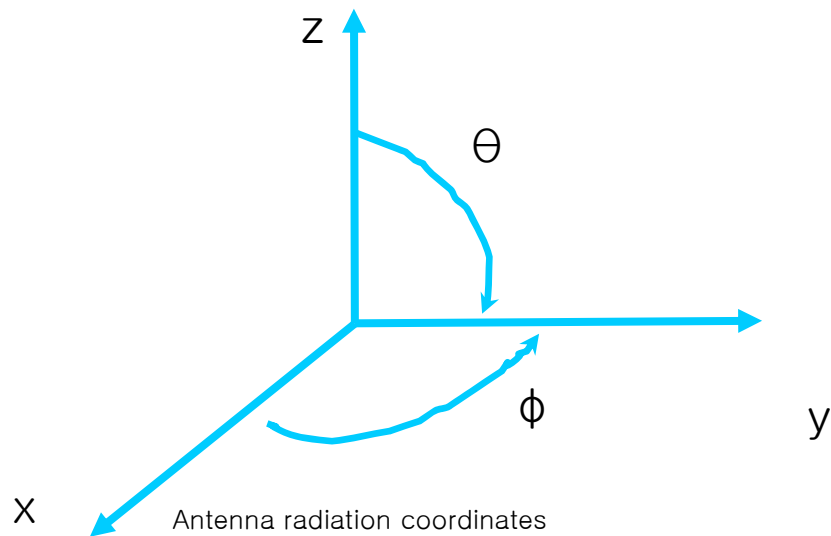


[Picture-1 Smith chart 및 VSWR]

1. 3D VIEW



4. Measure results for Radiation pattern



Test condition

Parameters	condition	Unit
Chamber size	6*10*4	M
Temperature	21.5	°C
Humidity	55	%
Measurement	S21(network Analyzer)	8510C
System software	Midas(Orbit/FR)	Version 3.0

- E,H 는 linear horn antenna : E plane(roll=0deg.)과 H plane(roll=90deg.).

Operator: DeNom

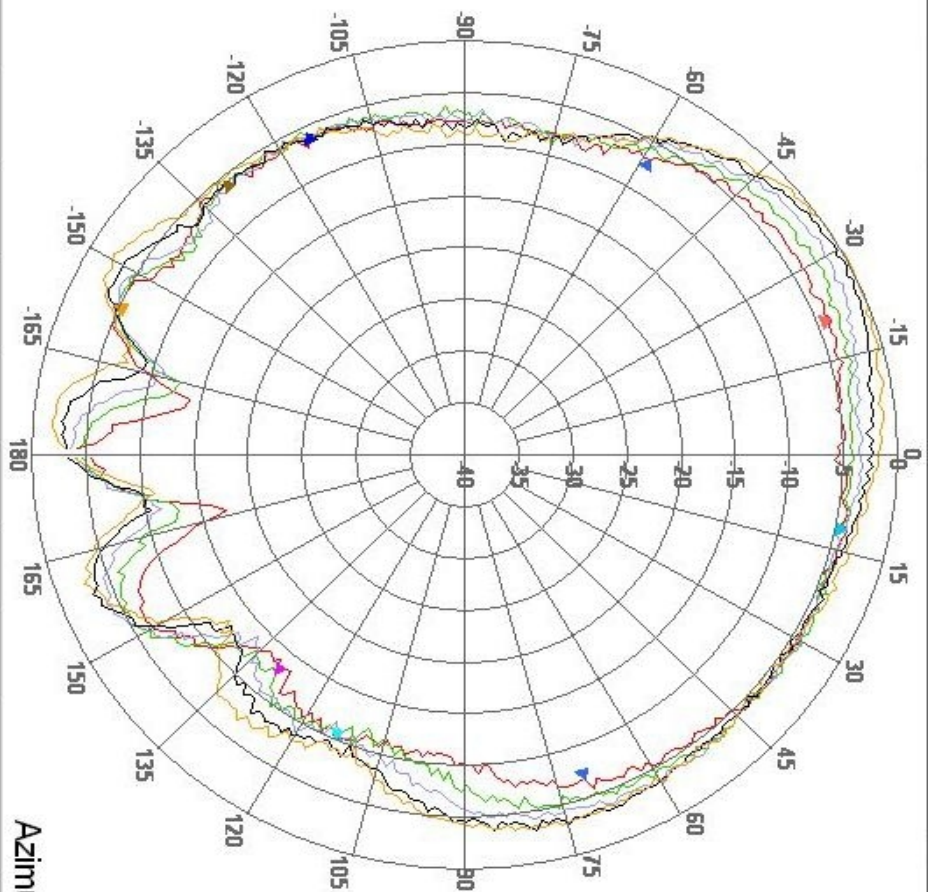
Azimuth Theta

Date

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[Azimuth XY]

Amplitude (dB)



Azimuth [deg]

P	File Name	Freq. [MHz]	Ch.	Beam	Switch	Beam Peak [dB]		Beam Width [deg]		Null Depth [dB]		Avg		Gain		Norm
						Value	[deg]	Value	° dB	Value	[deg]	dB	dB1	dB		
	azimuth theta-CAL.nrf	2400.000 M	0.00	CH1		-3.66	-21.22	P	129.43	3.00	P	-6.50	-3.66	-58.91		
	azimuth theta-CAL.nrf	2432.000 M	0.00	CH1		-2.33	-32.20	P	128.75	3.00	P	-5.77	-2.33	-58.84		
	azimuth theta-CAL.nrf	2446.000 M	0.00	CH1		-1.23	-32.20	P	63.68	3.00	P	-5.21	-1.23	-55.99		
	azimuth theta-CAL.nrf	2465.000 M	0.00	CH1		-0.29	-30.21	P	63.38	3.00	P	-4.57	-0.29	-55.57		
	azimuth theta-CAL.nrf	2485.000 M	0.00	CH1		0.11	-32.20	P	61.80	3.00	P	-4.15	0.11	-55.93		

☒ Amplitude
☐ Phase☐ Not Inverted
☐ No Shift
☐ Not Rotated
☐ Ends Not Connected

Ampl. Color

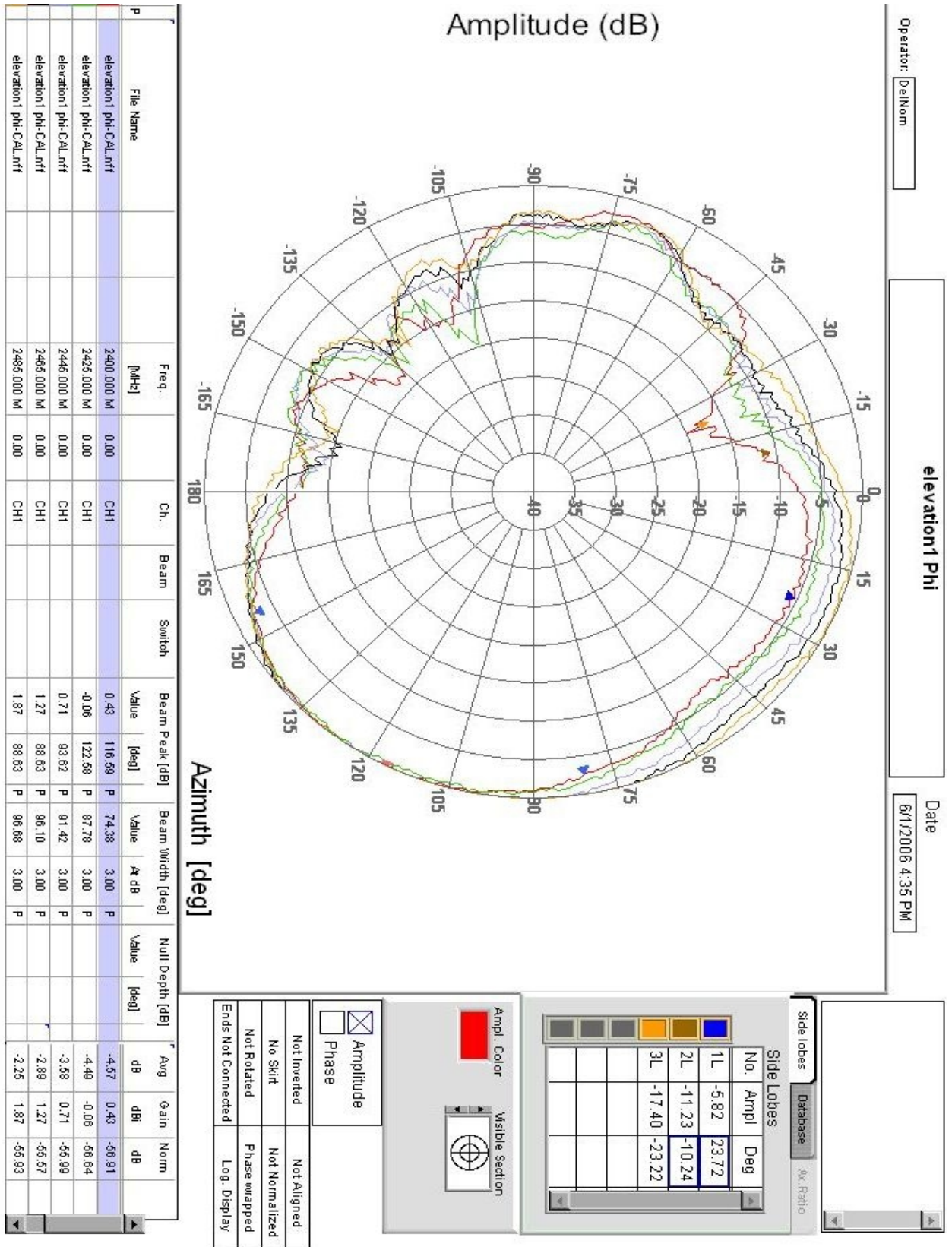
Visible Section

Side Lobes

Database

Rx Ratio

[Elevation XZ]

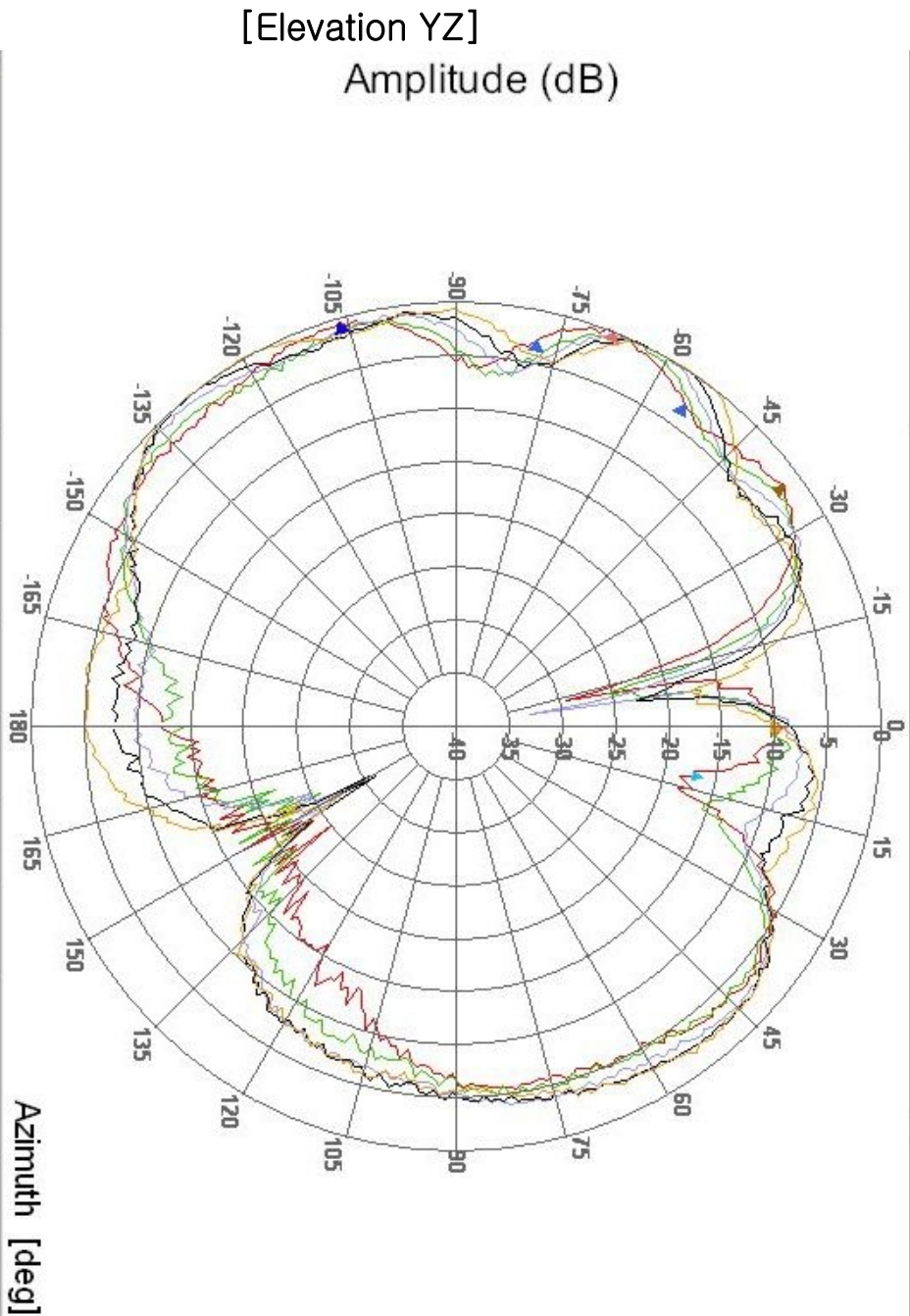


Operator: DeINom

elevation1 Phi

Date

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File Name	Freq. [MHz]	Ch.	Beam	Switch	Beam Peak [deg]		Beam Width [deg]		Null Depth [dB]		Avg		Gain	Norm
					Value	[deg]	Value	° dB	Value	[deg]	dB	dB	dB	
elevation2 phi-CAL.nff	2400.000 M	0.00	CH1		0.19	-68.15 P	23.53	3.00 P	-5.08	0.19	-56.91			
elevation2 phi-CAL.nff	2425.000 M	0.00	CH1		0.08	-64.16 P	22.21	3.00 P	-5.20	0.08	-56.64			
elevation2 phi-CAL.nff	2445.000 M	0.00	CH1		0.27	-63.16 P	23.82	3.00 P	-4.56	0.27	-55.99			
elevation2 phi-CAL.nff	2465.000 M	0.00	CH1		0.51	-62.16 P	23.36	3.00 P	-4.26	0.51	-55.57			
elevation2 phi-CAL.nff	2485.000 M	0.00	CH1		1.19	-129.07 P	34.14	3.00 P	-3.77	1.19	-55.93			

☒ Amplitude	☐ Phase
☐ Not Inverted	☐ Not Aligned
☐ No Skirt	☐ Not Normalized
☐ Not Rotated	☐ Phase wrapped
☐ Ends Not Connected	☐ Log. Display

Ampl. Color

Visible Section

Side Lobes		
No.	Ampl	Deg
1L	-0.62	-106.11
1R	-1.84	-36.20
2R	-9.61	0.75
3R	-16.48	11.73

Side lobes

fx Ratio