

Test Report of 2.4GHz Wi-Fi Module



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Report Issue Date: 14/11/2023

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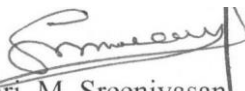
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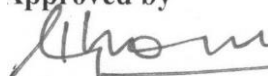
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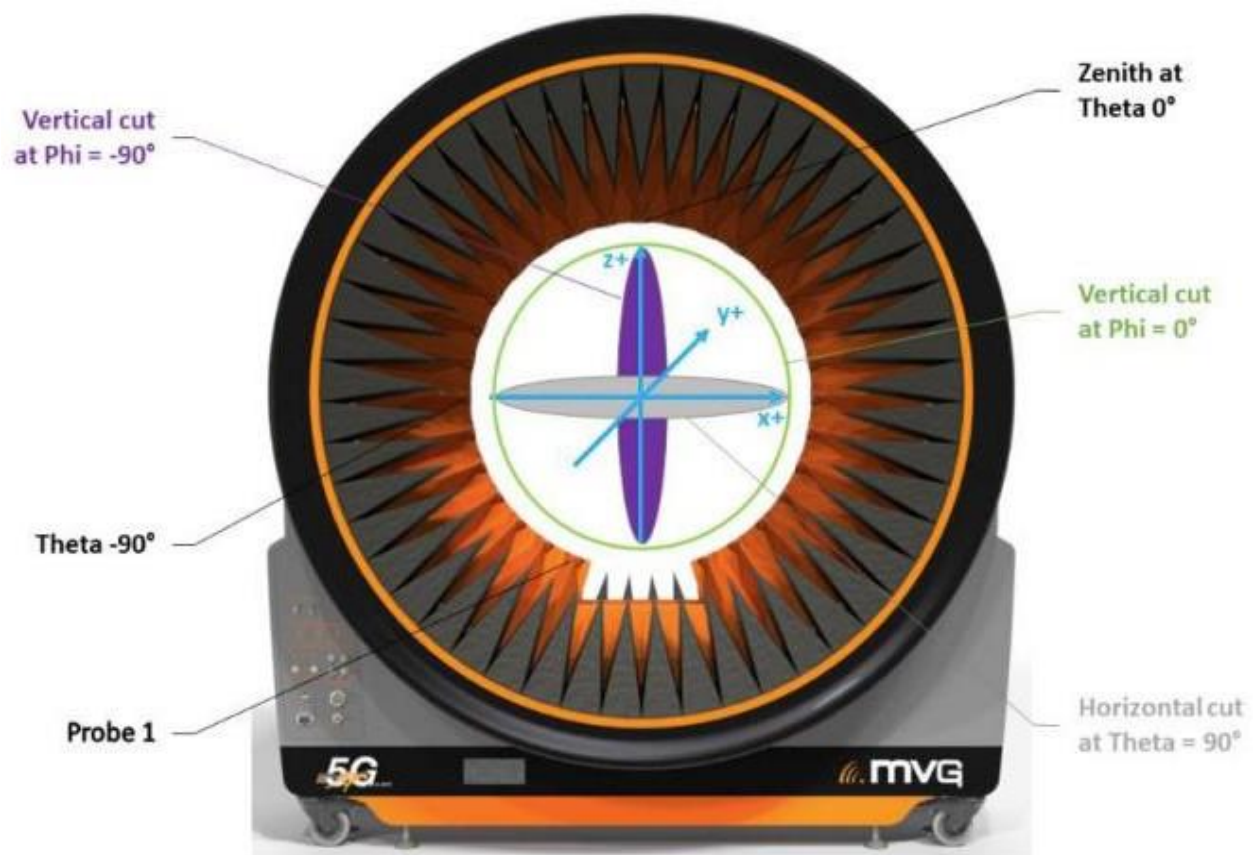
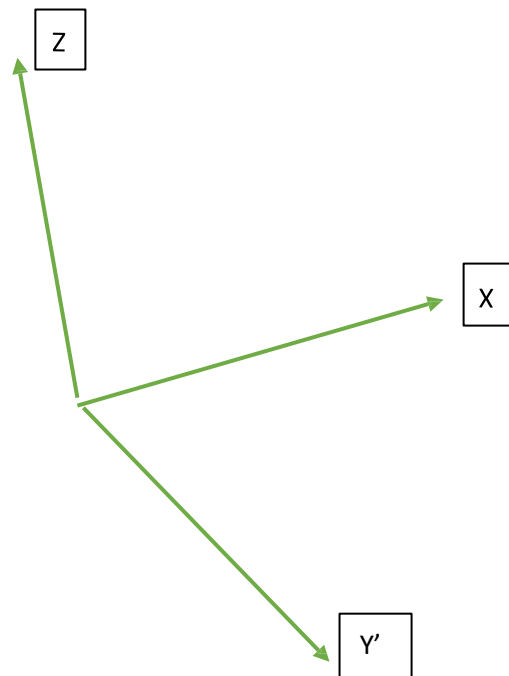


Fig-1: Reference Coordinate System

Module-2

WILCS02_SD_EVB_R403_3nH_L402_OR



Return Loss Plot:

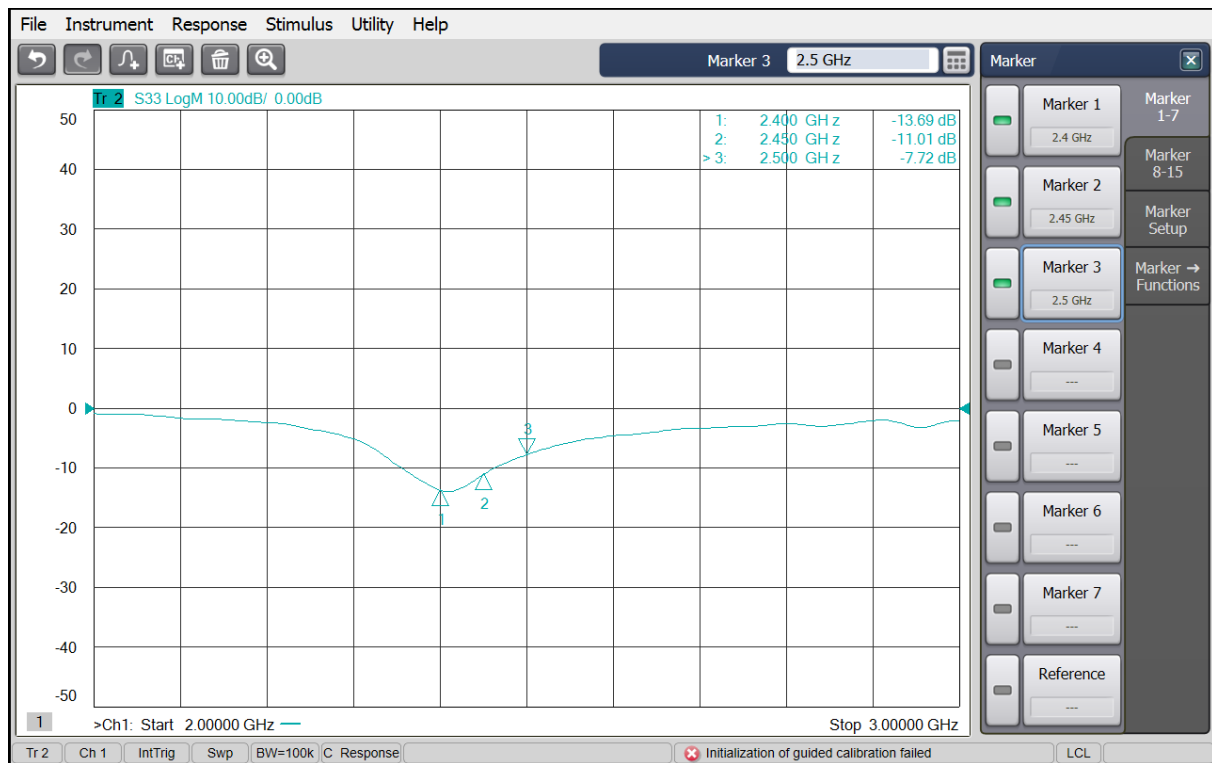


Fig-10 : Return loss plot of Module-2

Freq= 2.4 GHz :

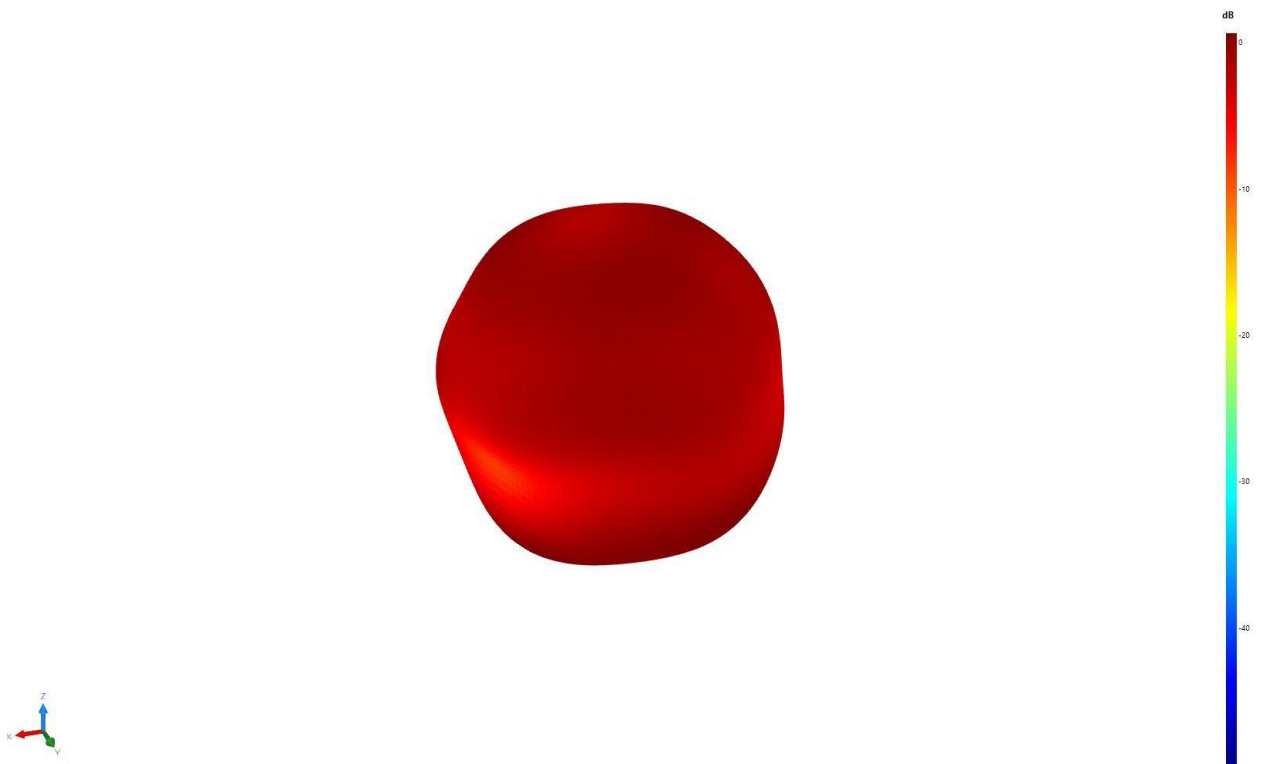


Fig-11: Radiation pattern (Slant view)

Freq= 2.4 GHz :

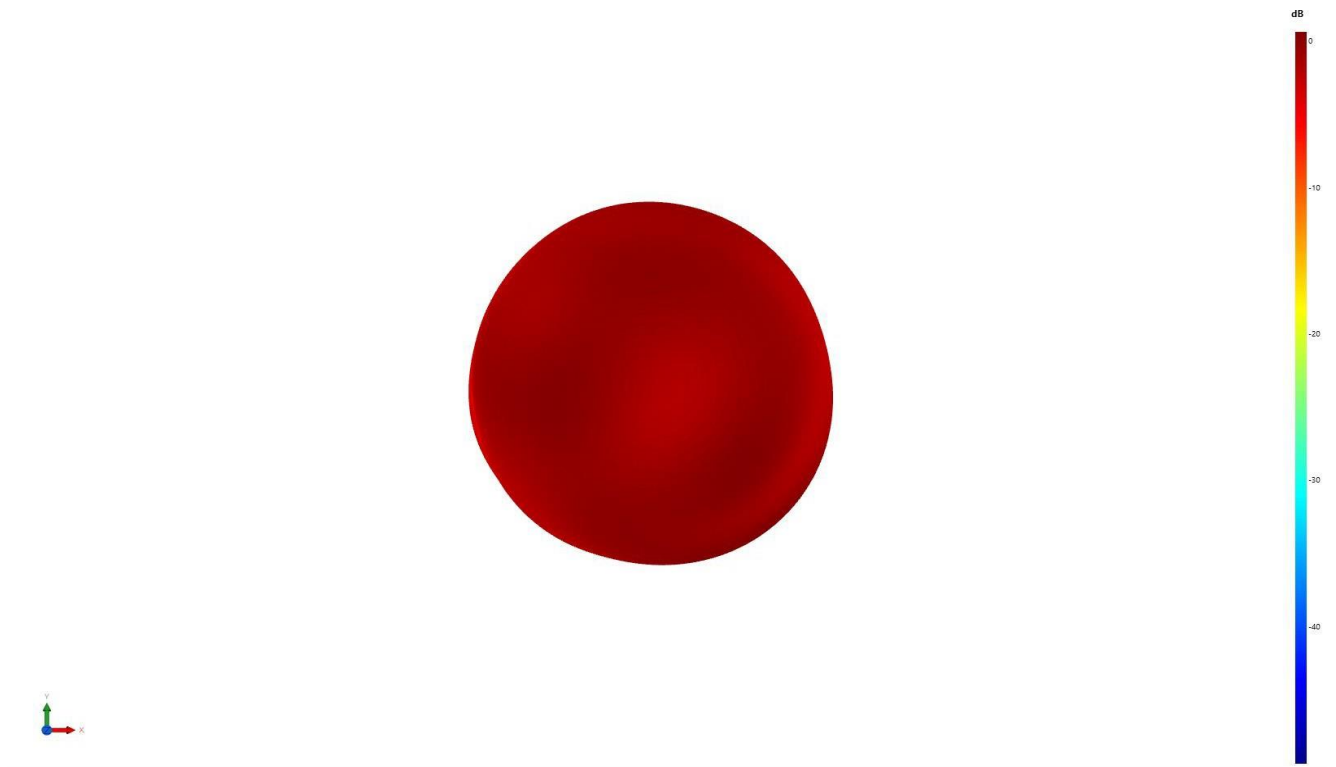


Fig-12 : Radiation pattern (XY view)

Freq= 2.4 GHz :

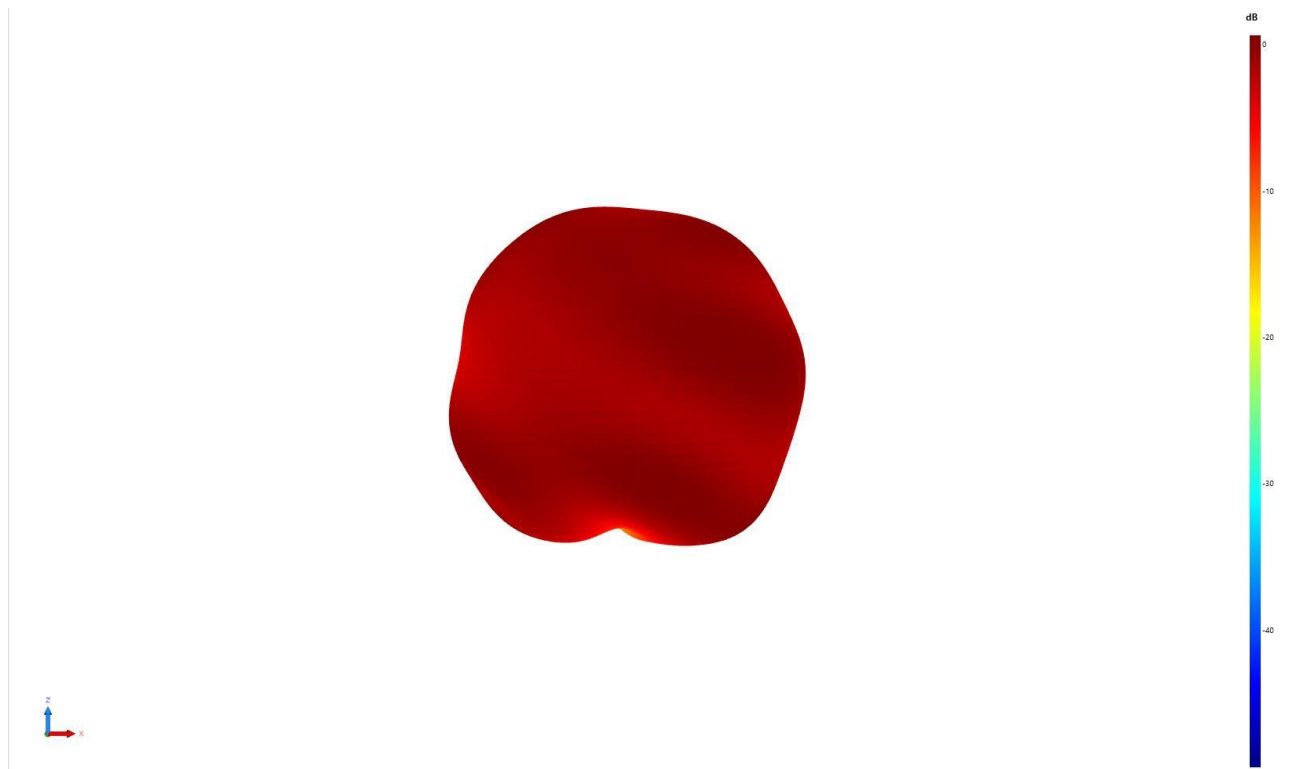


Fig-13 : Radiation pattern (XZ view)

Freq= 2.4 GHz :

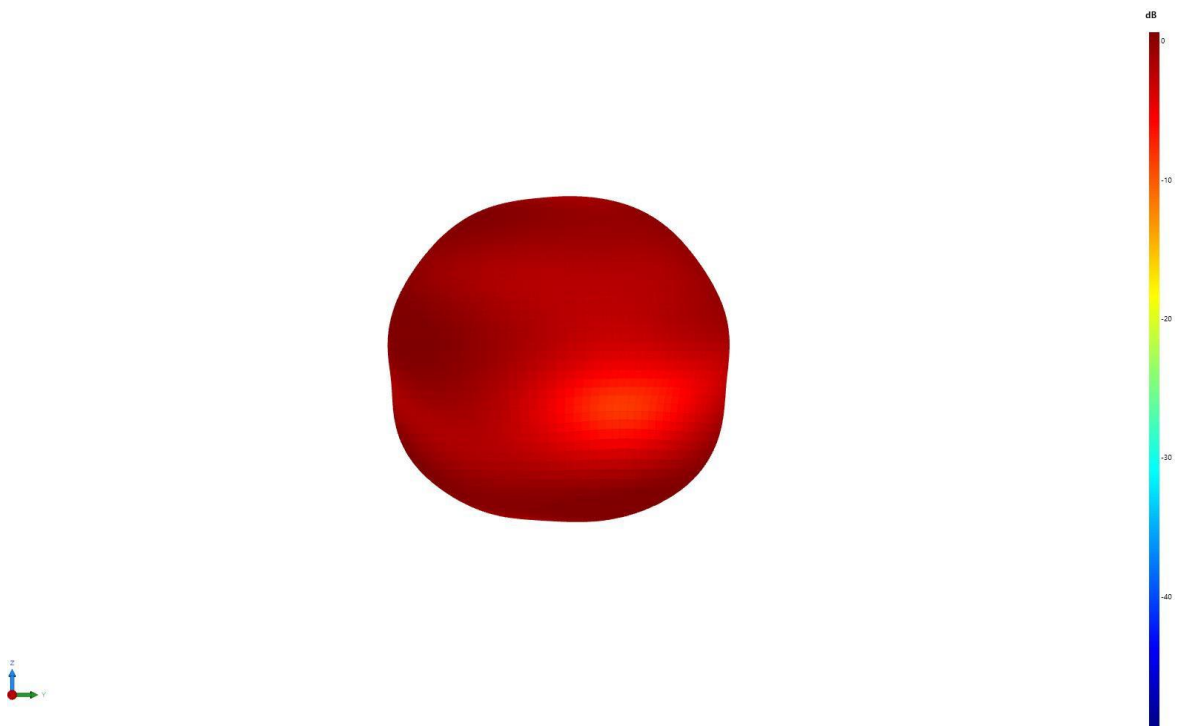


Fig-14: Radiation pattern (YZ view)

Freq=2.4 GHz :

— 90° 2400.00 MHz Polar H
— 90° 2400.00 MHz Polar V

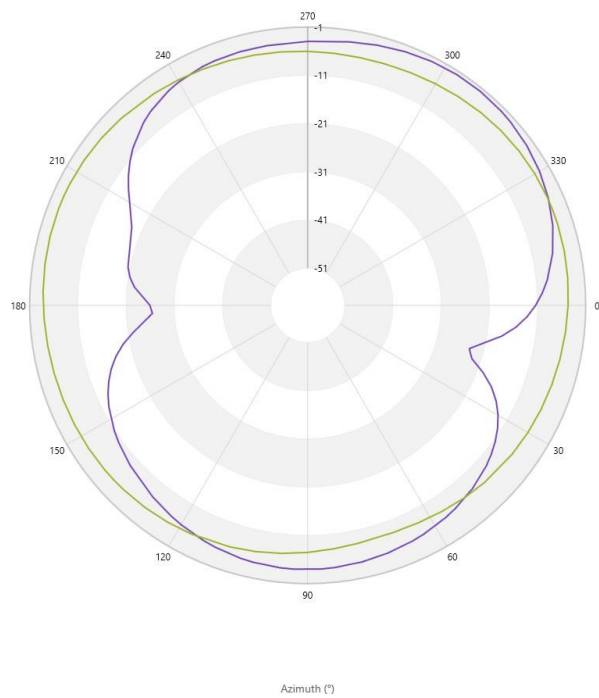


Fig-15: AZ plane pattern @ Theta=90 deg

Freq=2.4 GHz :

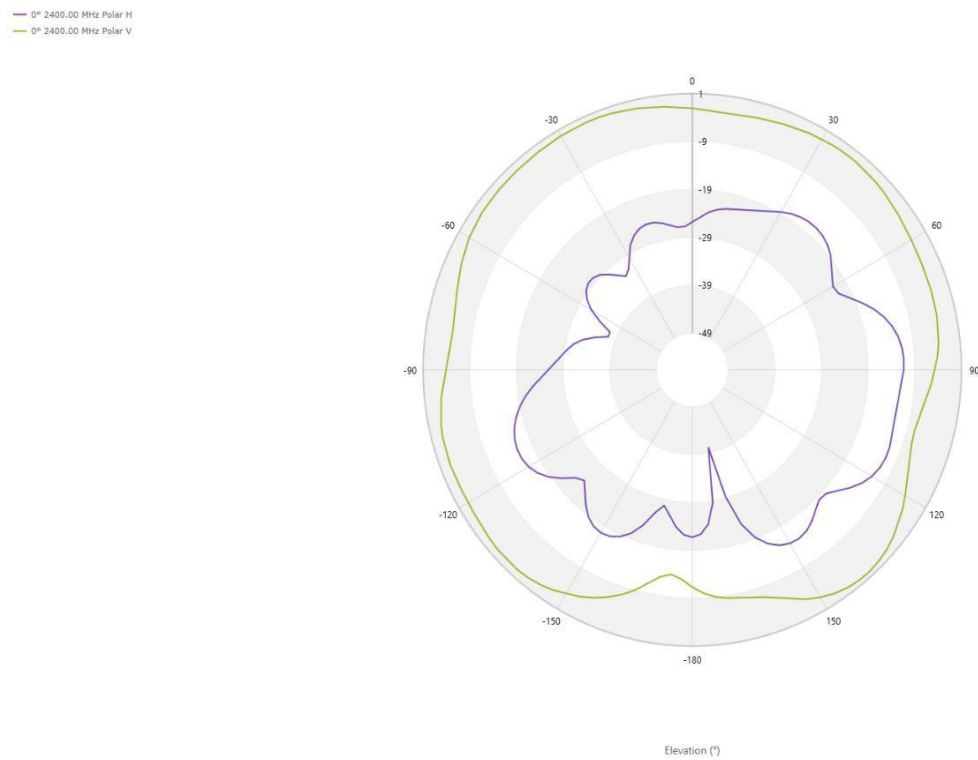


Fig-16: EL plane pattern @ Phi=0 deg

Freq=2.4 GHz :

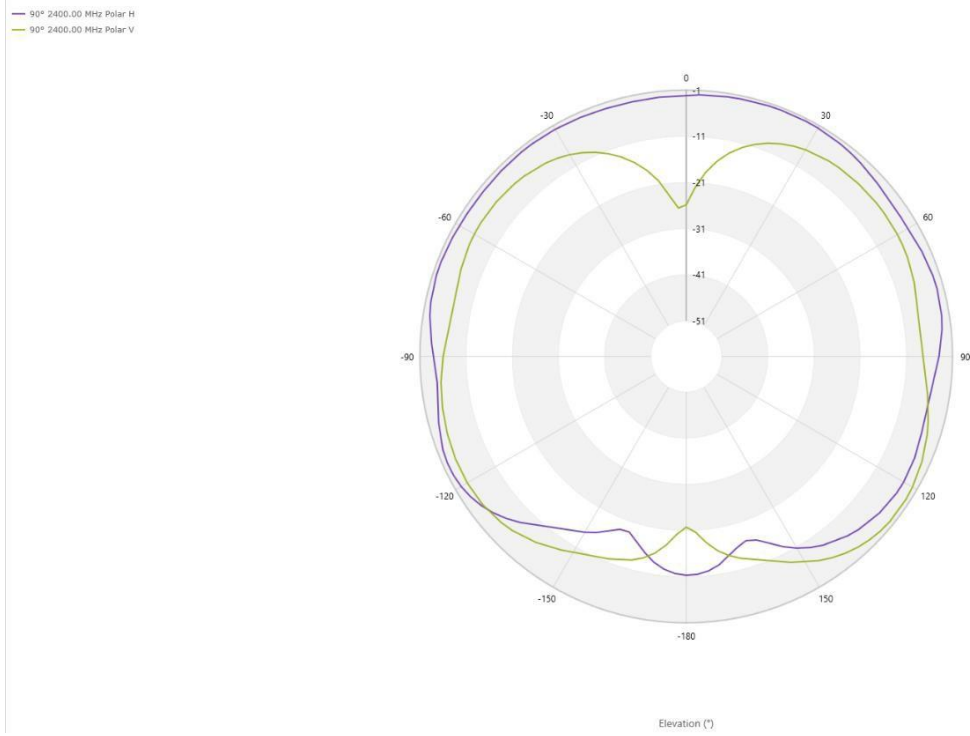


Fig-17: EL plane pattern @ Phi=90 deg

Gain(dB) : Module-2

Freq(MHz)	Gain(dB)
2400	0.66
2405	0.63
2410	0.9
2415	0.9
2420	0.92
2425	0.9
2430	1
2435	1.09
2440	1.07
2445	1.18
2450	0.89
2455	0.8
2460	0.73
2465	0.76
2470	0.75
2475	0.87
2480	0.67
2485	0.54
2490	0.5
2495	0.53
2500	0.45

Table-4: Gain (dB) for Module-2

Efficiency (Linear) : Module-2

Freq(MHz)	Efficiency
2400	0.67
2405	0.69
2410	0.71
2415	0.71
2420	0.71
2425	0.72
2430	0.72
2435	0.73
2440	0.72
2445	0.71
2450	0.7
2455	0.68
2460	0.67
2465	0.66
2470	0.66
2475	0.66
2480	0.64
2485	0.63
2490	0.61
2495	0.61
2500	0.6

Table-5: Efficiency for Module-2

Directivity (dB) : Module-4

Freq(MHz)	Directivity(dB)
2400	2.4
2405	2.26
2410	2.41
2415	2.39
2420	2.39
2425	2.35
2430	2.43
2435	2.45
2440	2.46
2445	2.64
2450	2.46
2455	2.48
2460	2.47
2465	2.56
2470	2.55
2475	2.68
2480	2.58
2485	2.57
2490	2.62
2495	2.7
2500	2.66

Table-6: Directivity(dB) for Module-2