G7LYP
Antenna Test Report

Jan. 21, 2025

Carl Hung | Antenna Design Department

Sercomm Proprietary and Confidential

Outline

- Antenna Structure & Placement
- Return Loss & Isolation
- Radiation Efficiency
- Peak Gain
- Radiation Pattern

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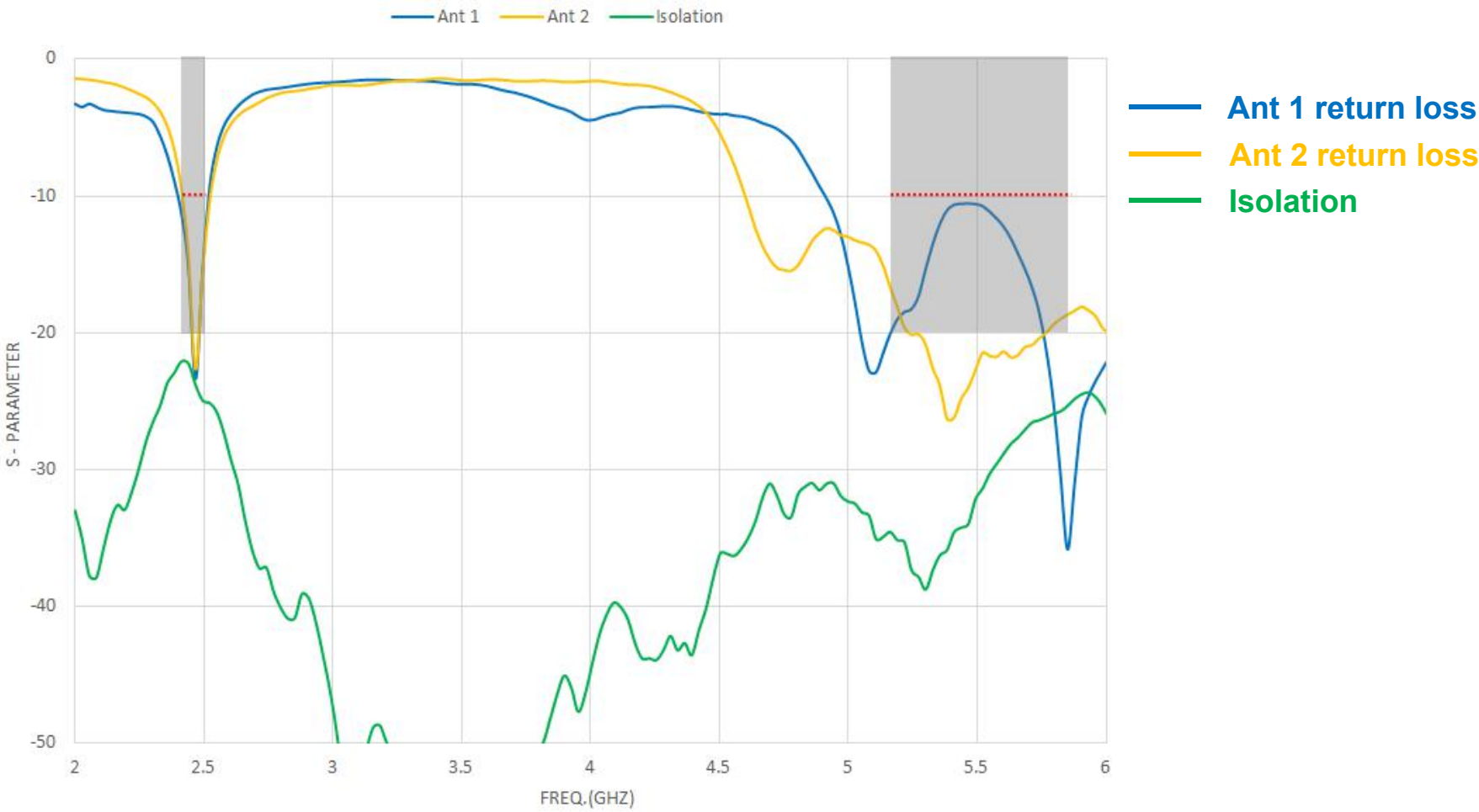
Antenna Structure & Placement

Ant No.	Function	Operating Band	Type	Material	Feeding	Dimension
Ant-1	WiFi dual band	2400 MHz ~ 2500 MHz 5150 MHz ~ 5850 MHz	PIFA	FPCB	Cable	30(L) x 18(W) x 0.15(T) mm^3
Ant-2	WiFi dual band	2400 MHz ~ 2500 MHz 5150 MHz ~ 5850 MHz	PIFA	FPCB	Cable	30(L) x 18(W) x 0.15(T) mm^3

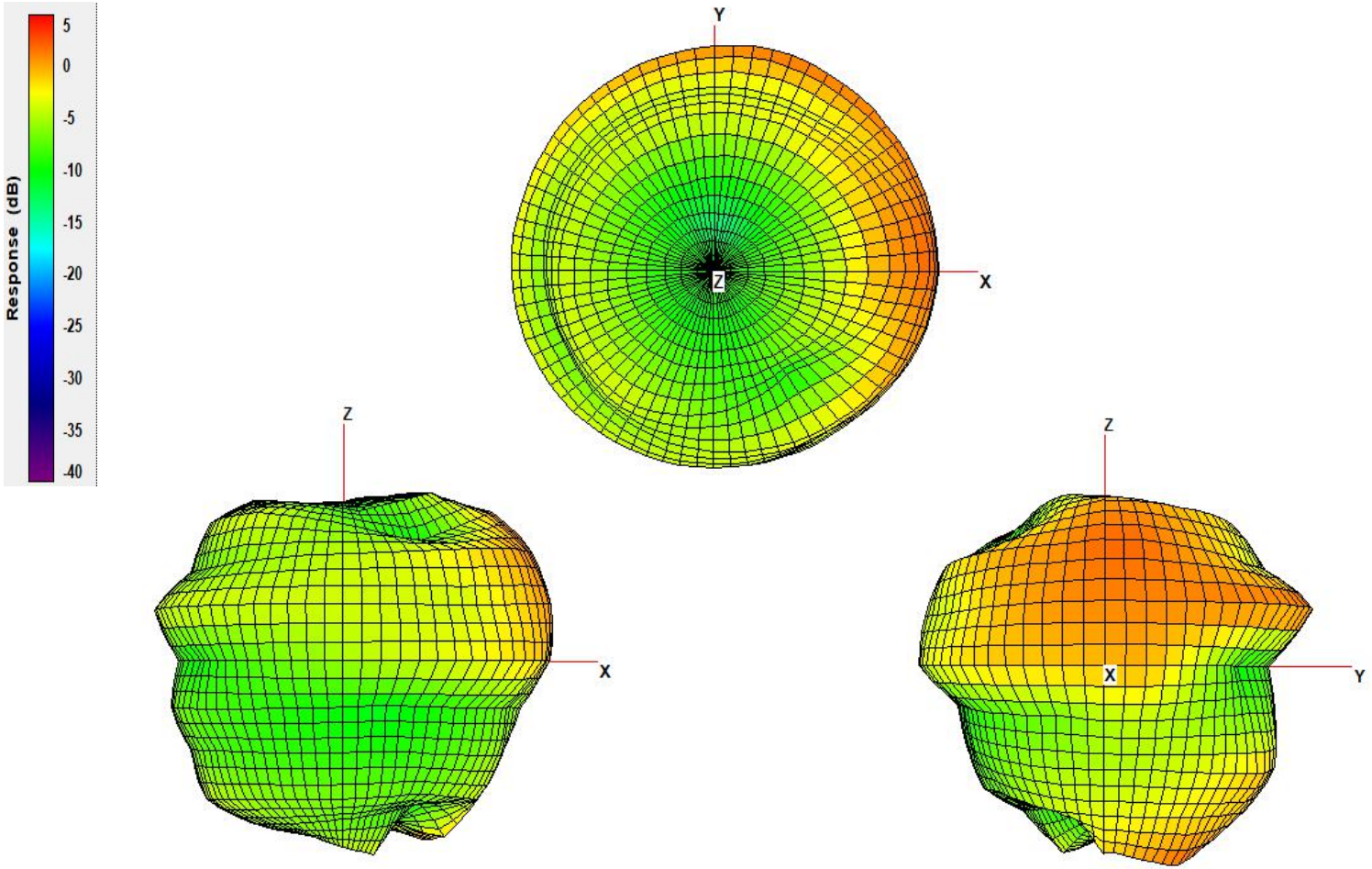
Return Loss & Isolation



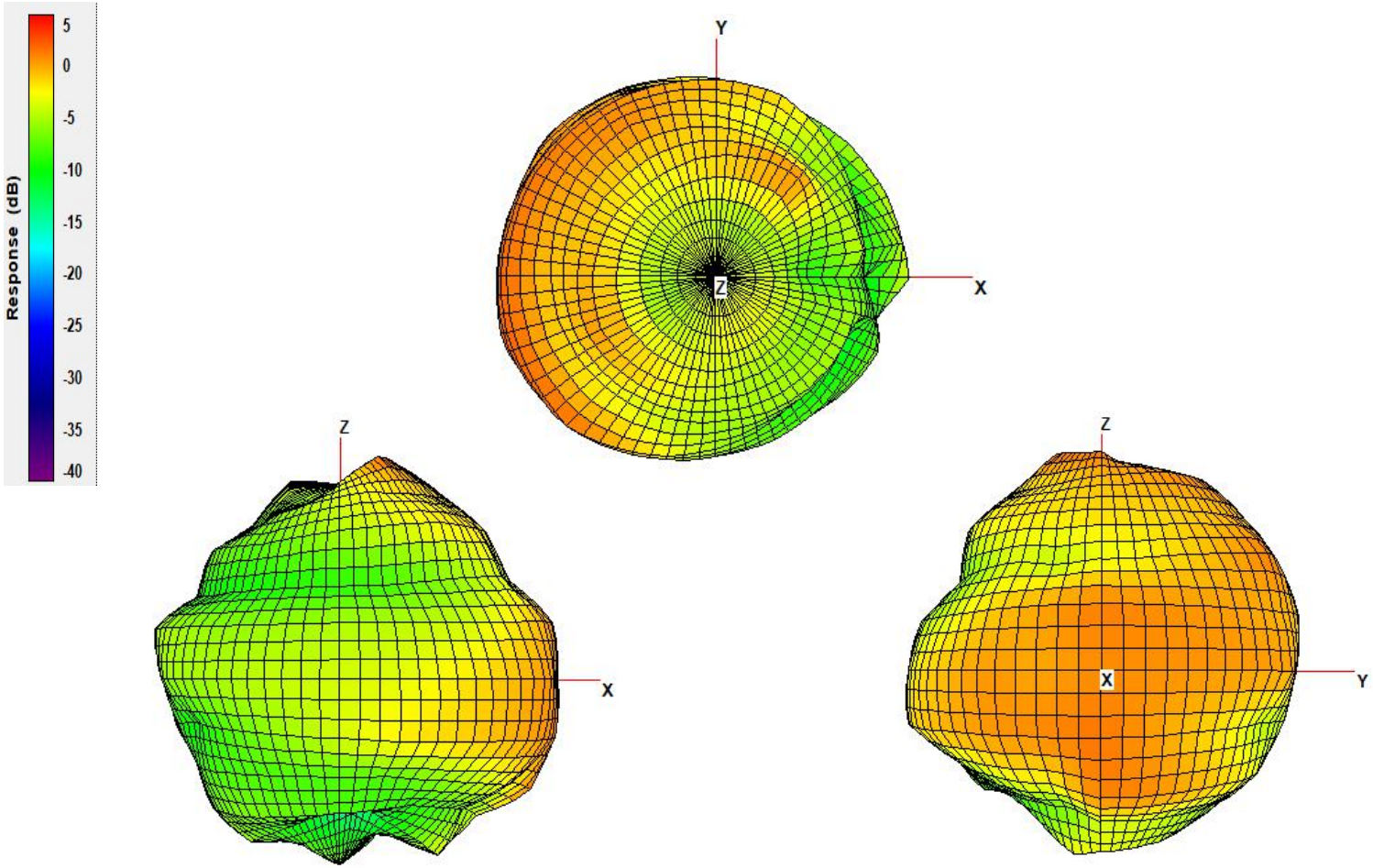
Peak Gain & Efficiency

	Ant-1		Ant-2	
Frequency (MHz)	Efficiency (dB)	Peak Gain (dBi)	Efficiency (dB)	Peak Gain (dBi)
2400	-2.72	1.94	-2.68	2.47
2450	-2.54	2.79	-2.31	2.69
2500	-2.62	2.63	-2.84	2.49
5150	-2.61	4.43	-1.98	4.47
5500	-1.94	4.62	-2.24	4.35
5850	-2.51	4.14	-2.45	4.10

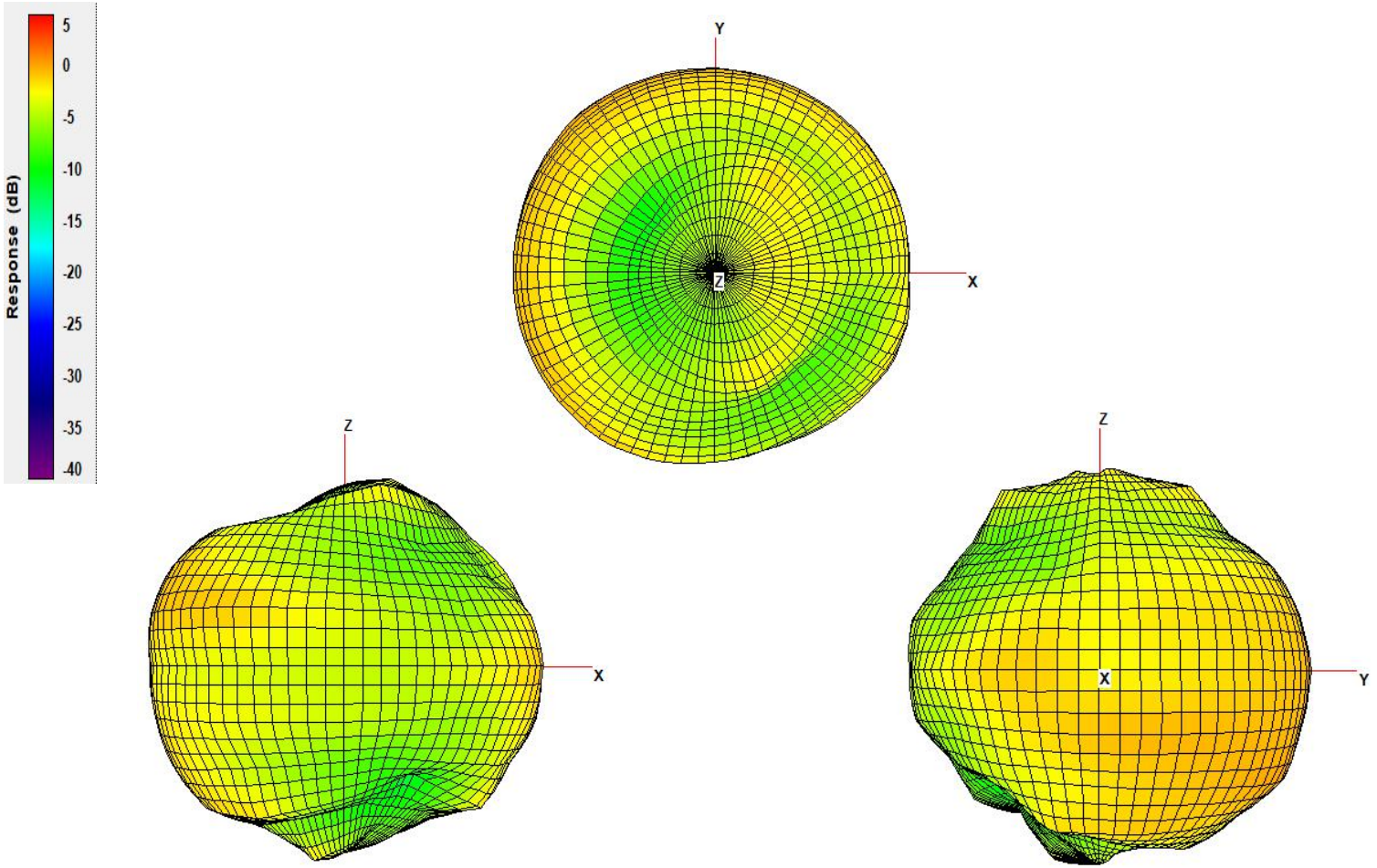
Radiation Pattern _ Ant-1 @ 2450 MHz



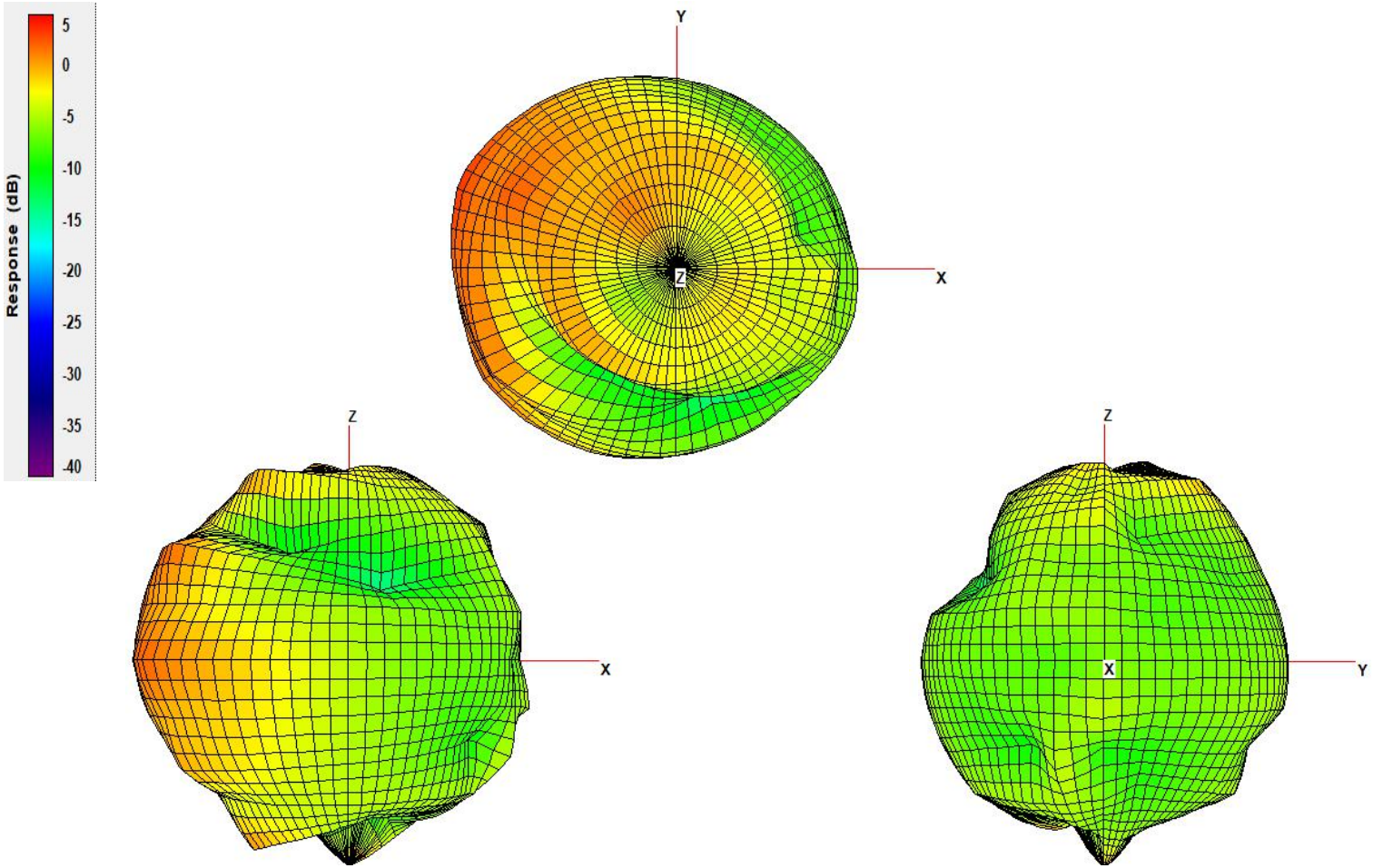
Radiation Pattern _ Ant-1 @ 5500 MHz



Radiation Pattern _ Ant-2 @ 2450 MHz



Radiation Pattern _ Ant-2 @ 5500 MHz



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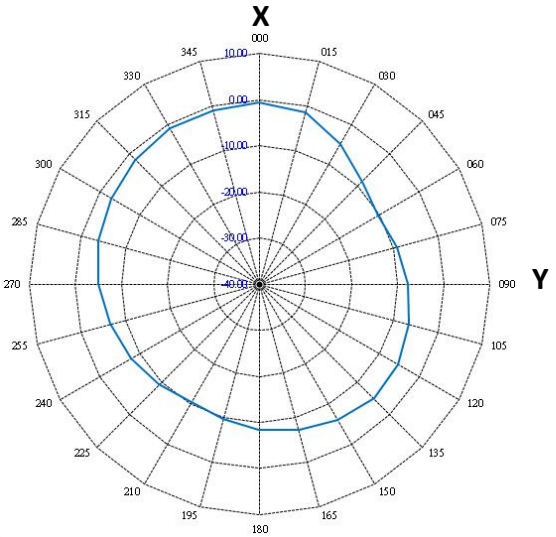

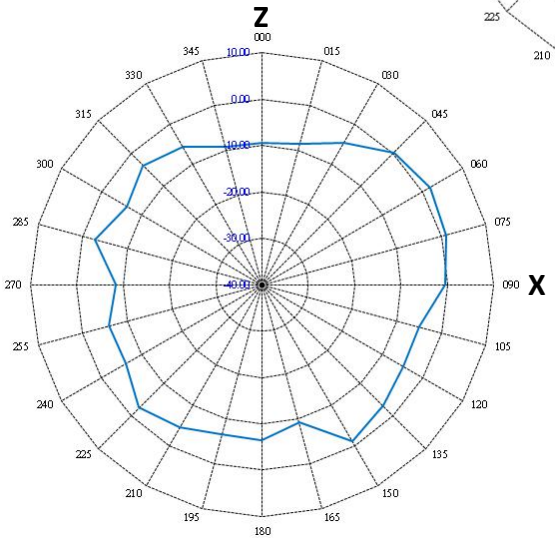

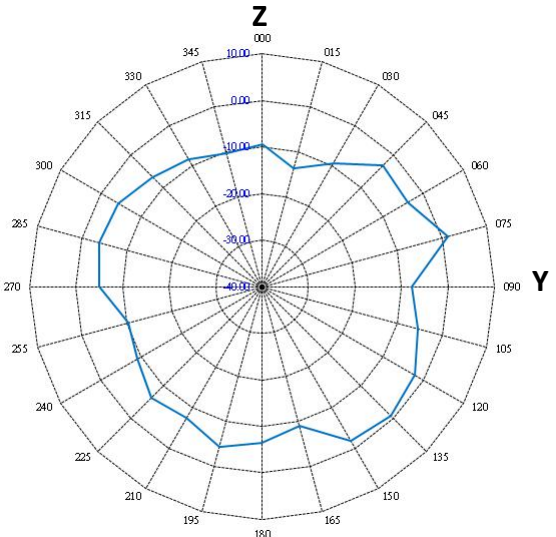

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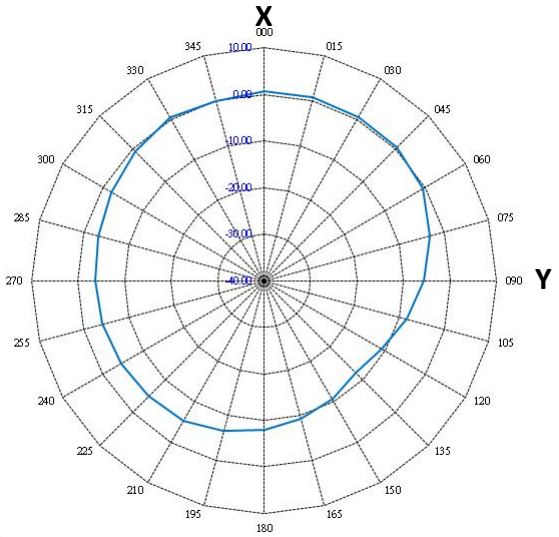
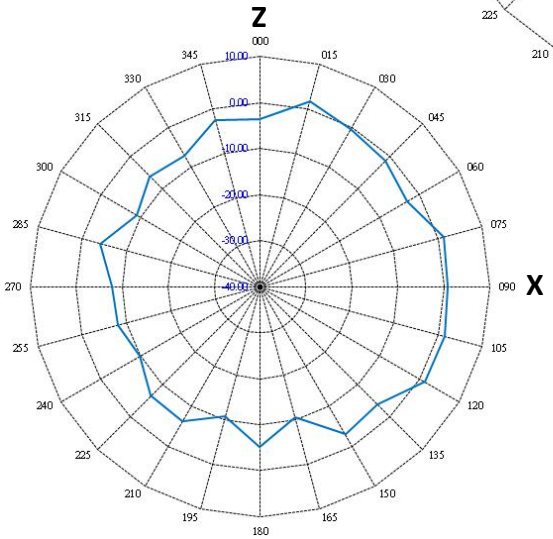
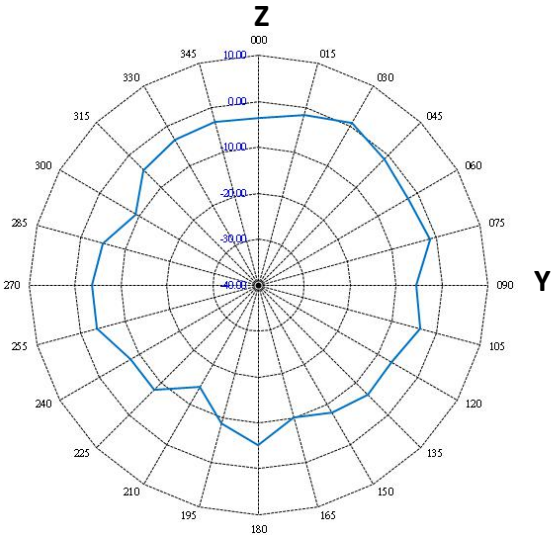
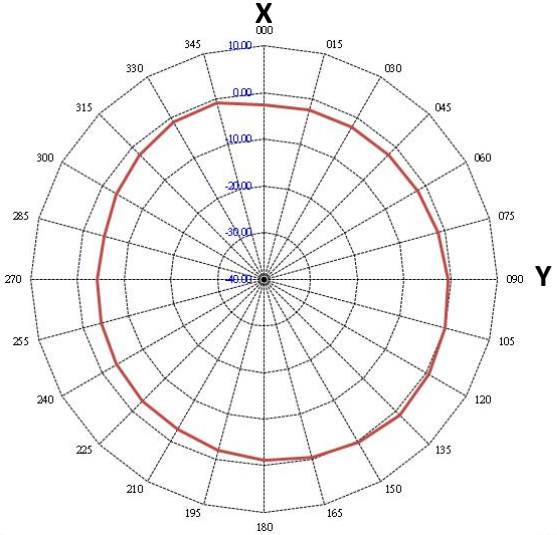
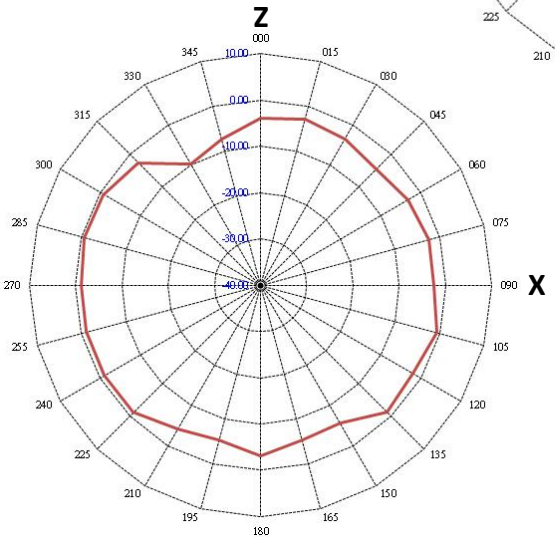


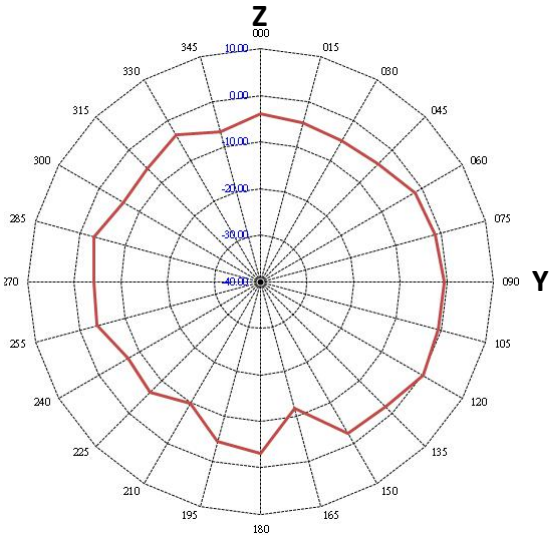




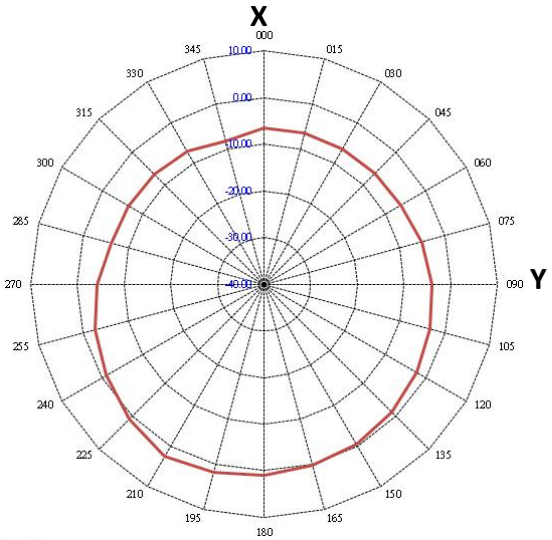
Radiation Pattern _ Ant-2 @ 2450 MHz

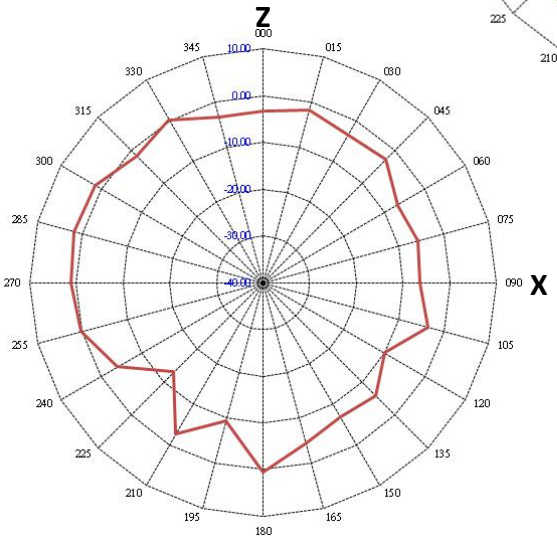


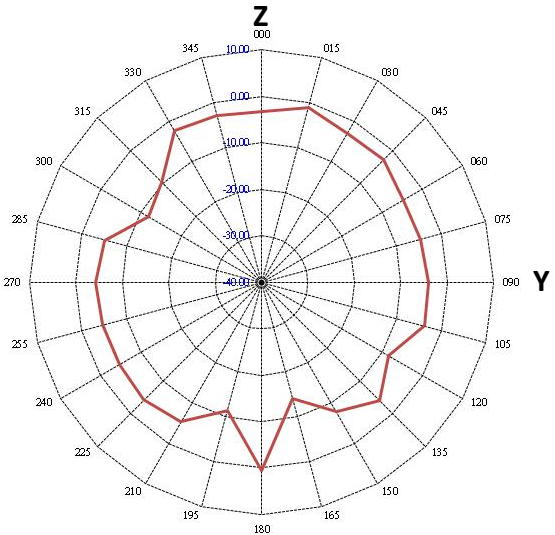




Radiation Pattern _ Ant-2 @ 5500 MHz







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