



Master Wave

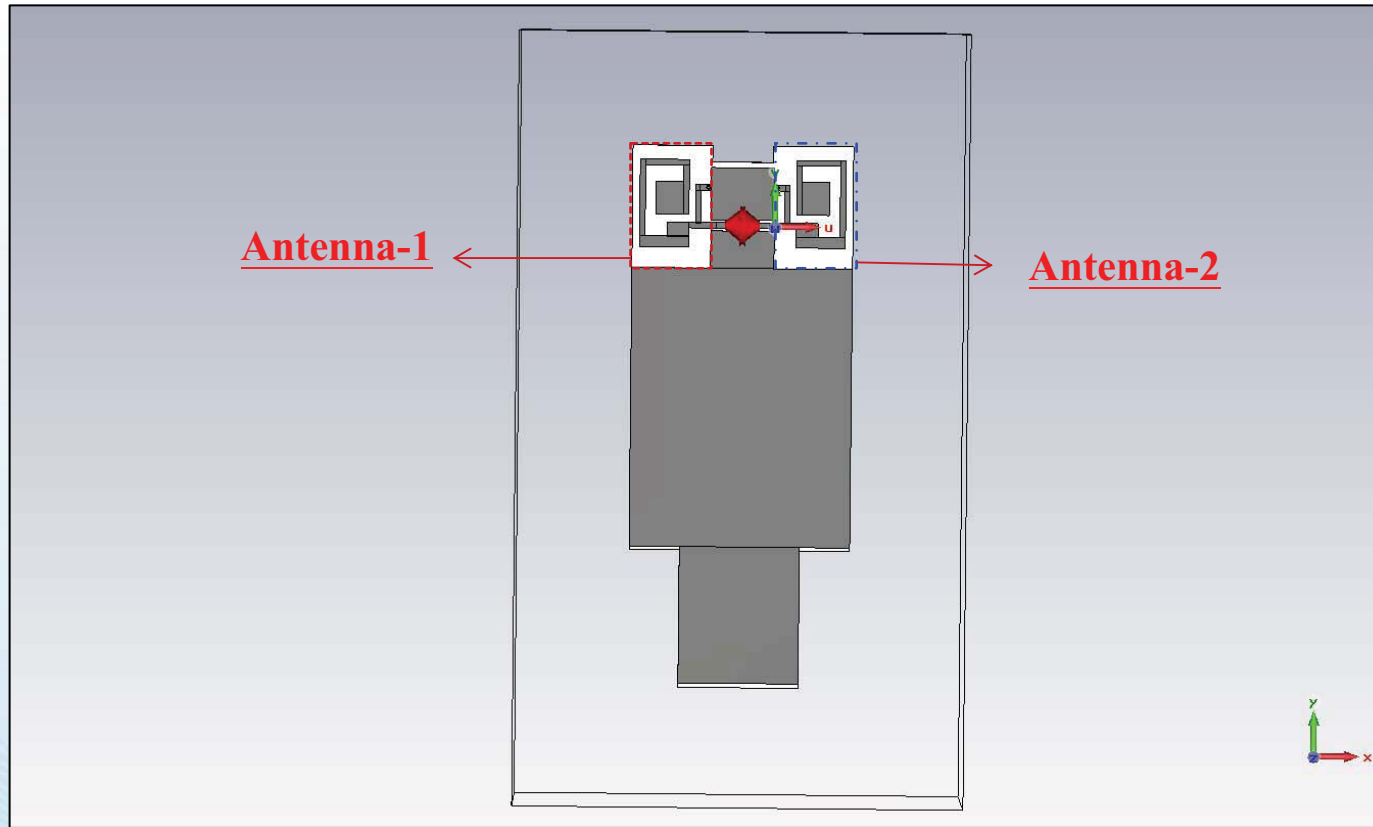
權億科技股份有限公司
Master Wave Technology Co., Ltd.

**Report for
DUNGEL Antenna
2011/08/08**



Master Wave

Antenna Design Structure



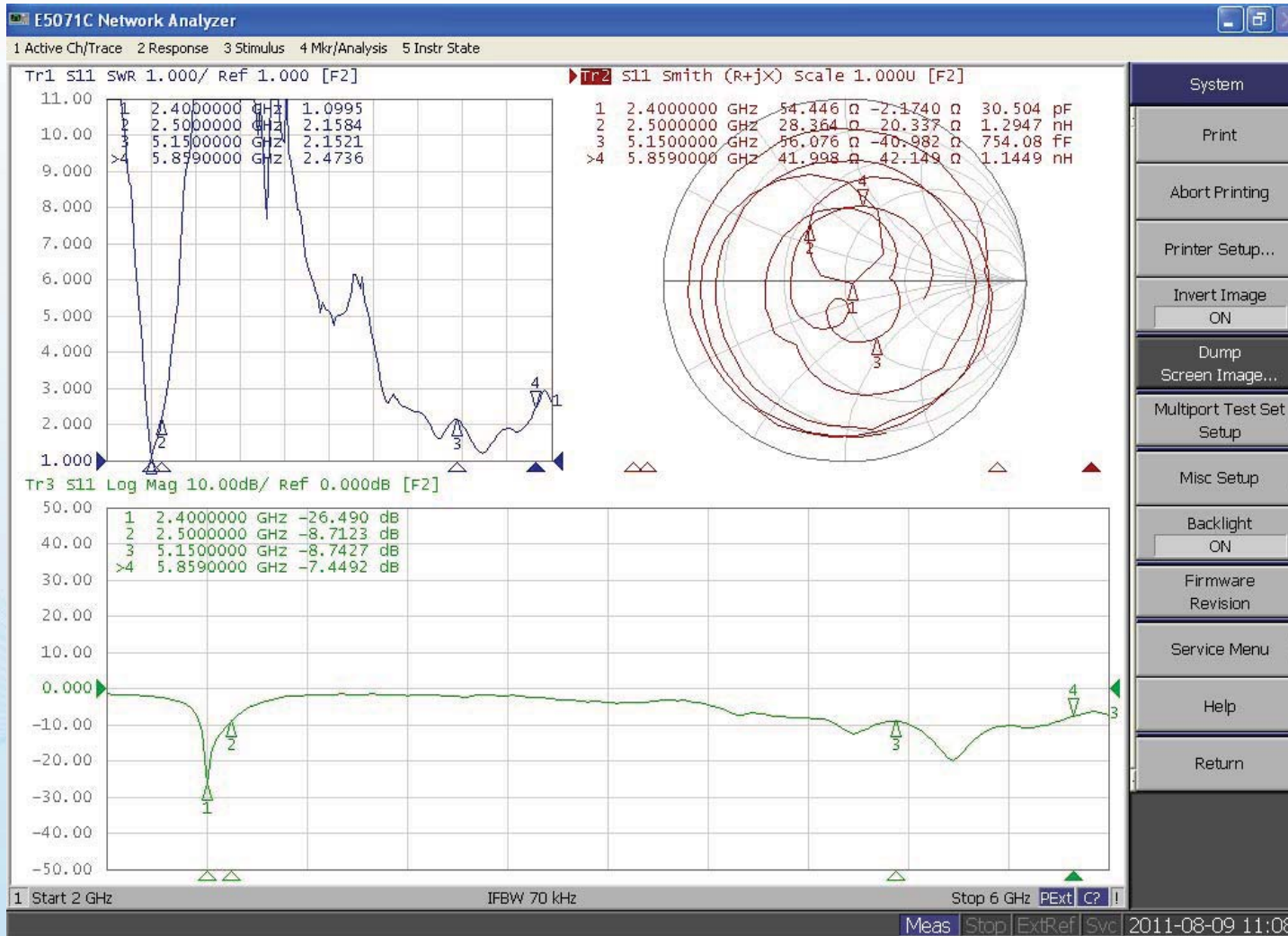


Master Wave

Measurement Impedance matching



Antenna-1



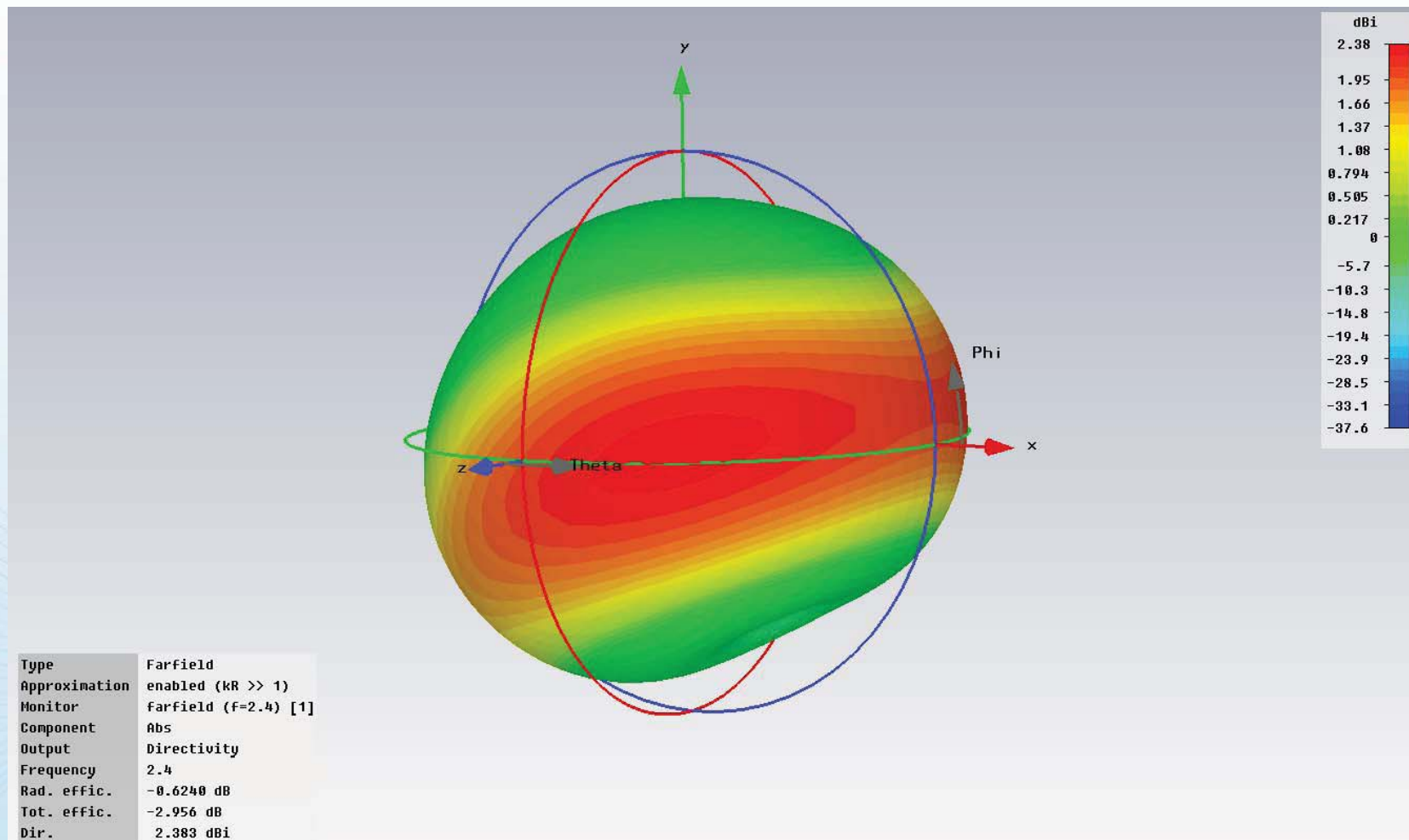


Master Wave

3D Radiation Pattern @2400 MHz



Antenna-1



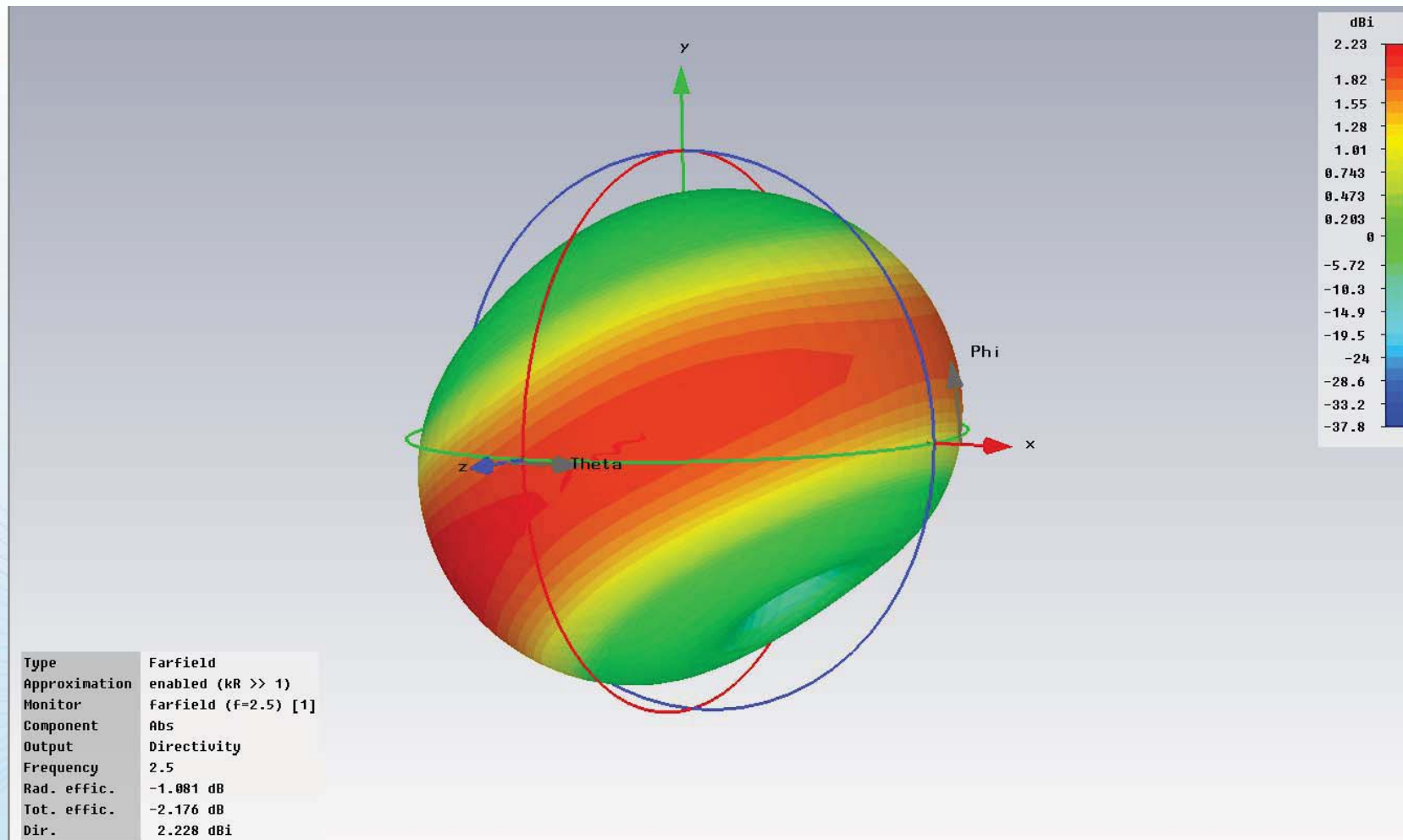


Master Wave

3D Radiation Pattern @2500 MHz



Antenna-1



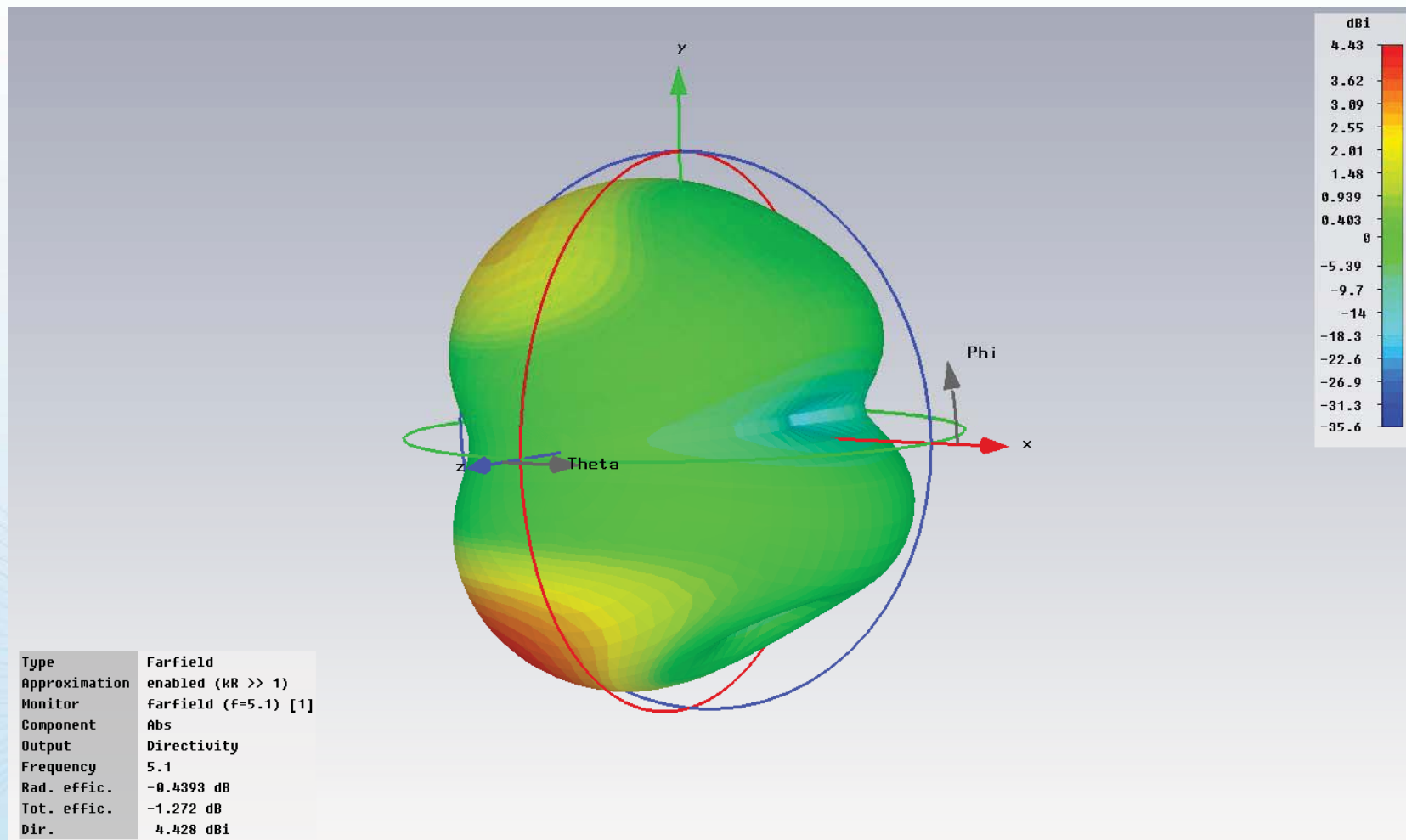


Master Wave

3D Radiation Pattern @5100 MHz



Antenna-1



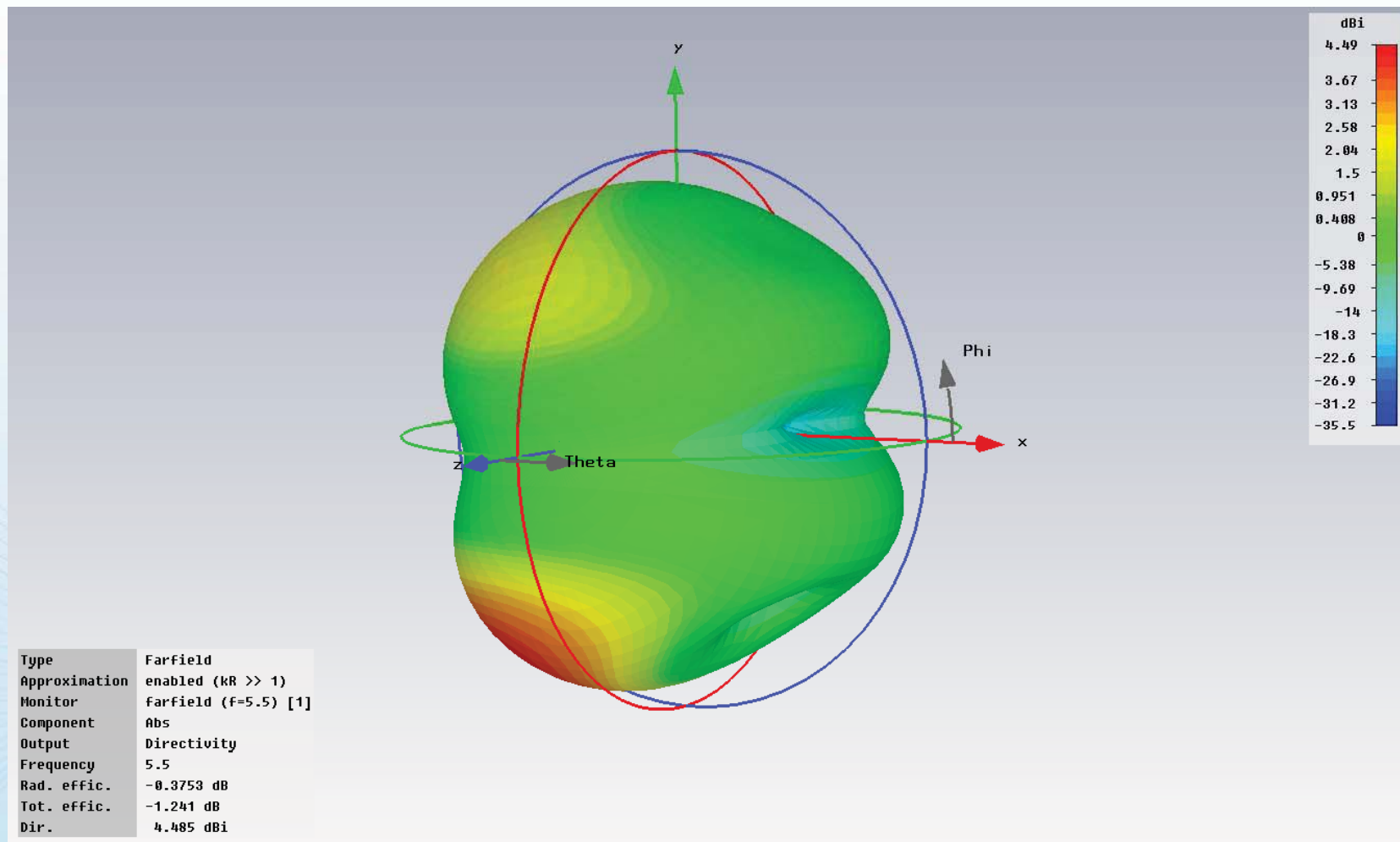


Master Wave

3D Radiation Pattern @5500 MHz



Antenna-1



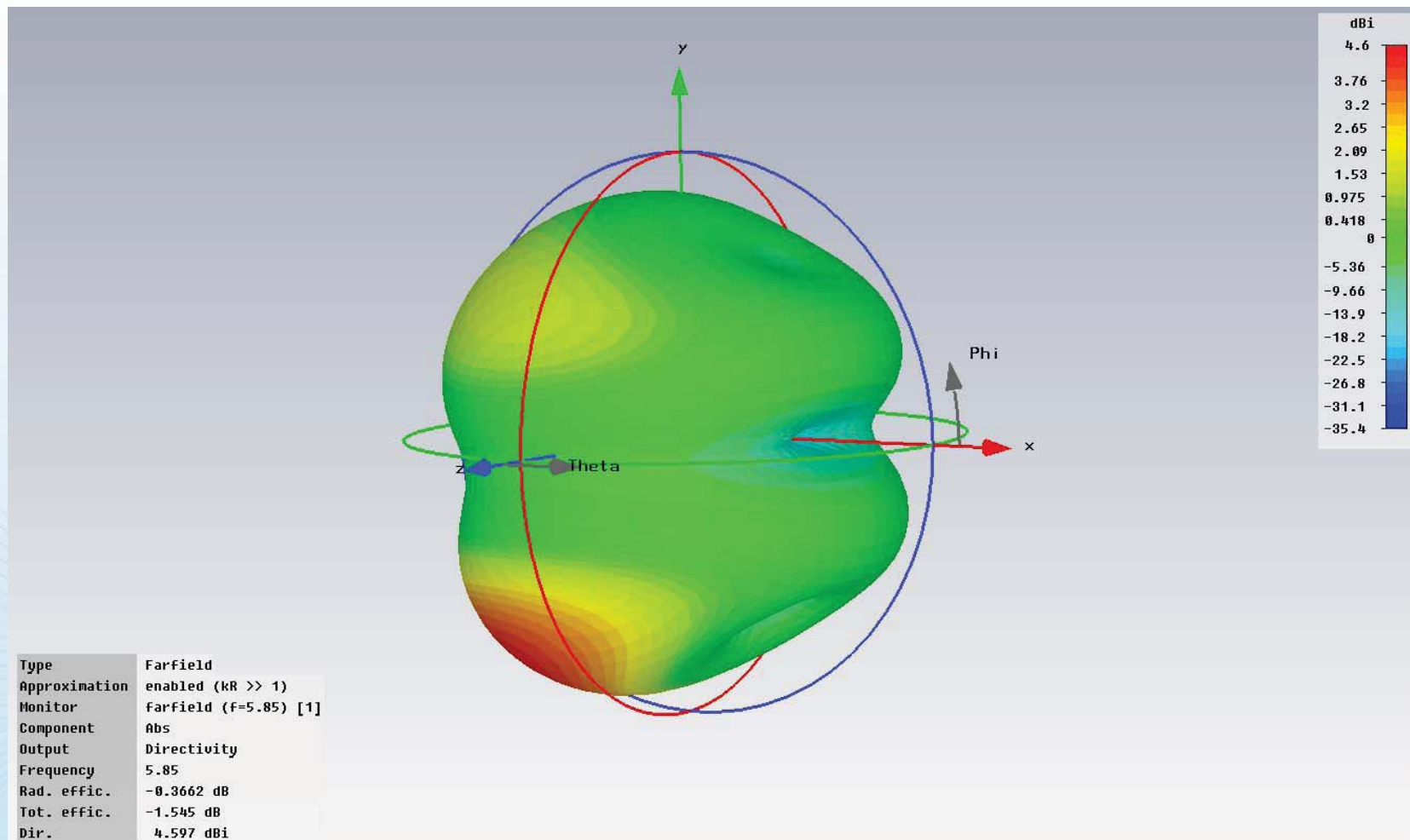


Master Wave

3D Radiation Pattern @5850 MHz



Antenna-1





Master Wave



Antenna Gain

Antenna-1

Frequency (Mhz)	2400	2500	5100	5500	5850
Peak gain (dBi)	1.983	2	2.928	3	2.984
Average gain (dB)	-2.965	-2.176	-1.272	-1.241	-1.545
Efficiency (%)	50.52	60.59	74.61	75.14	70.06

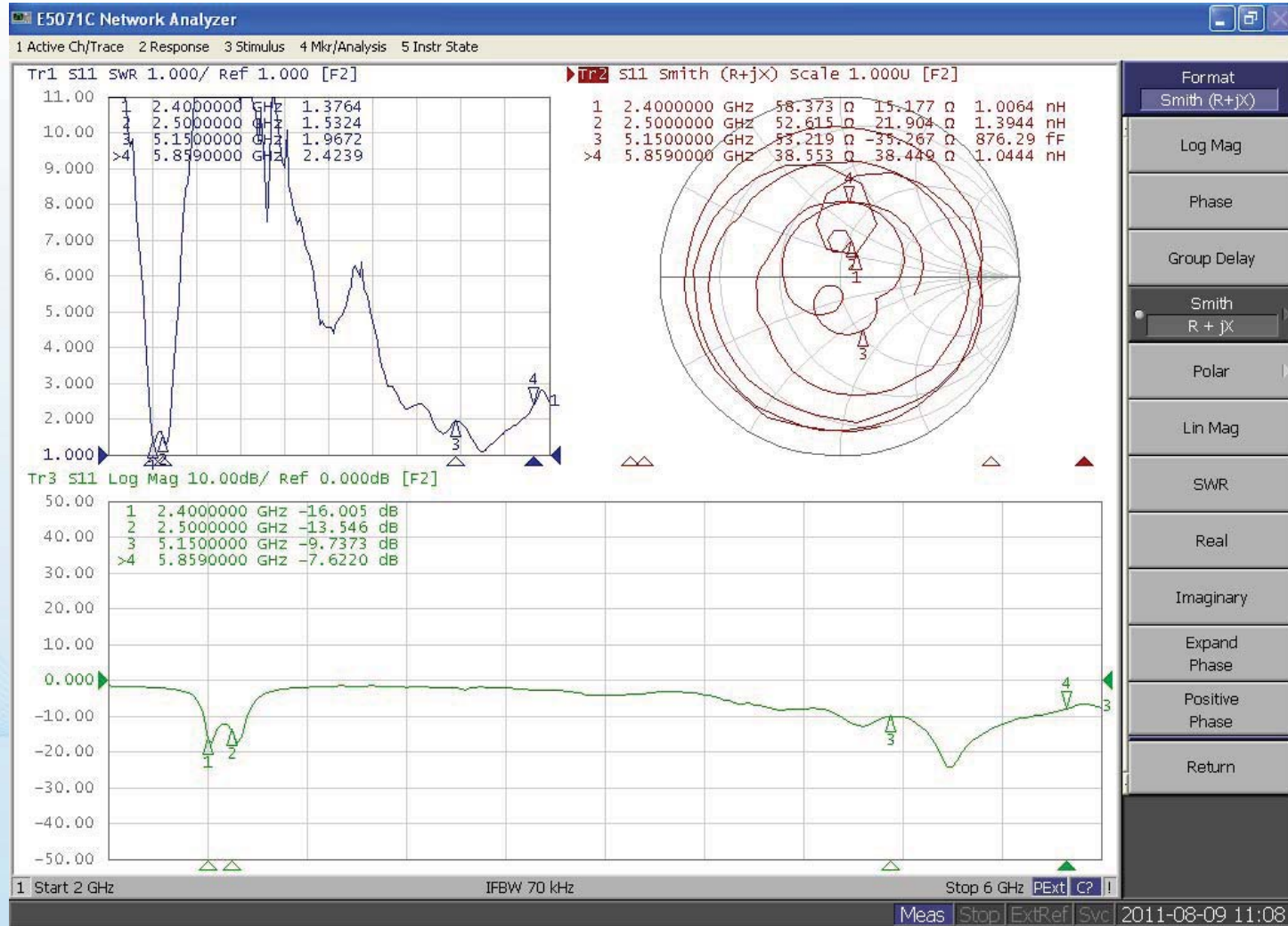


Master Wave

Measurement Impedance matching



Antenna-2



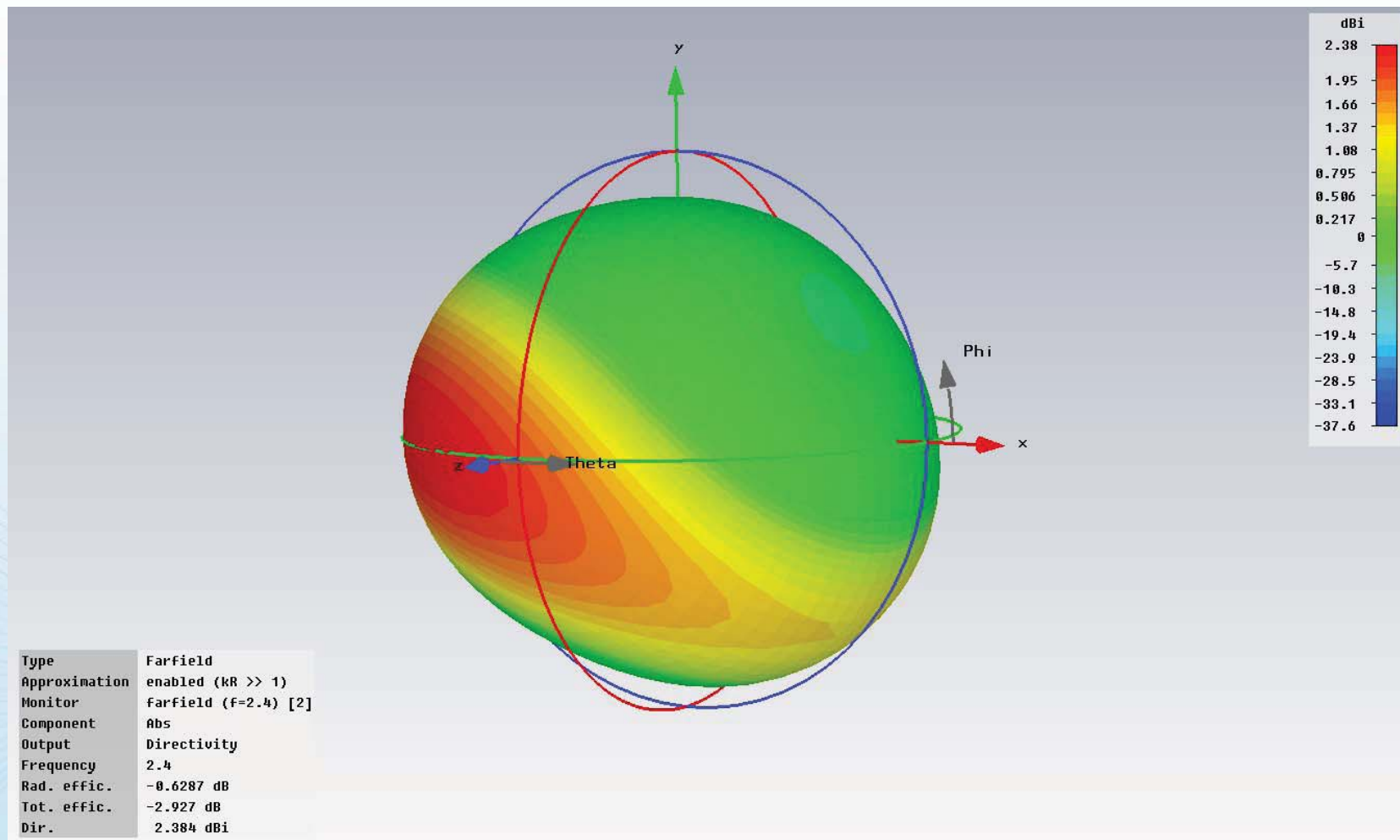


Master Wave

3D Radiation Pattern @2400 MHz



Antenna-2



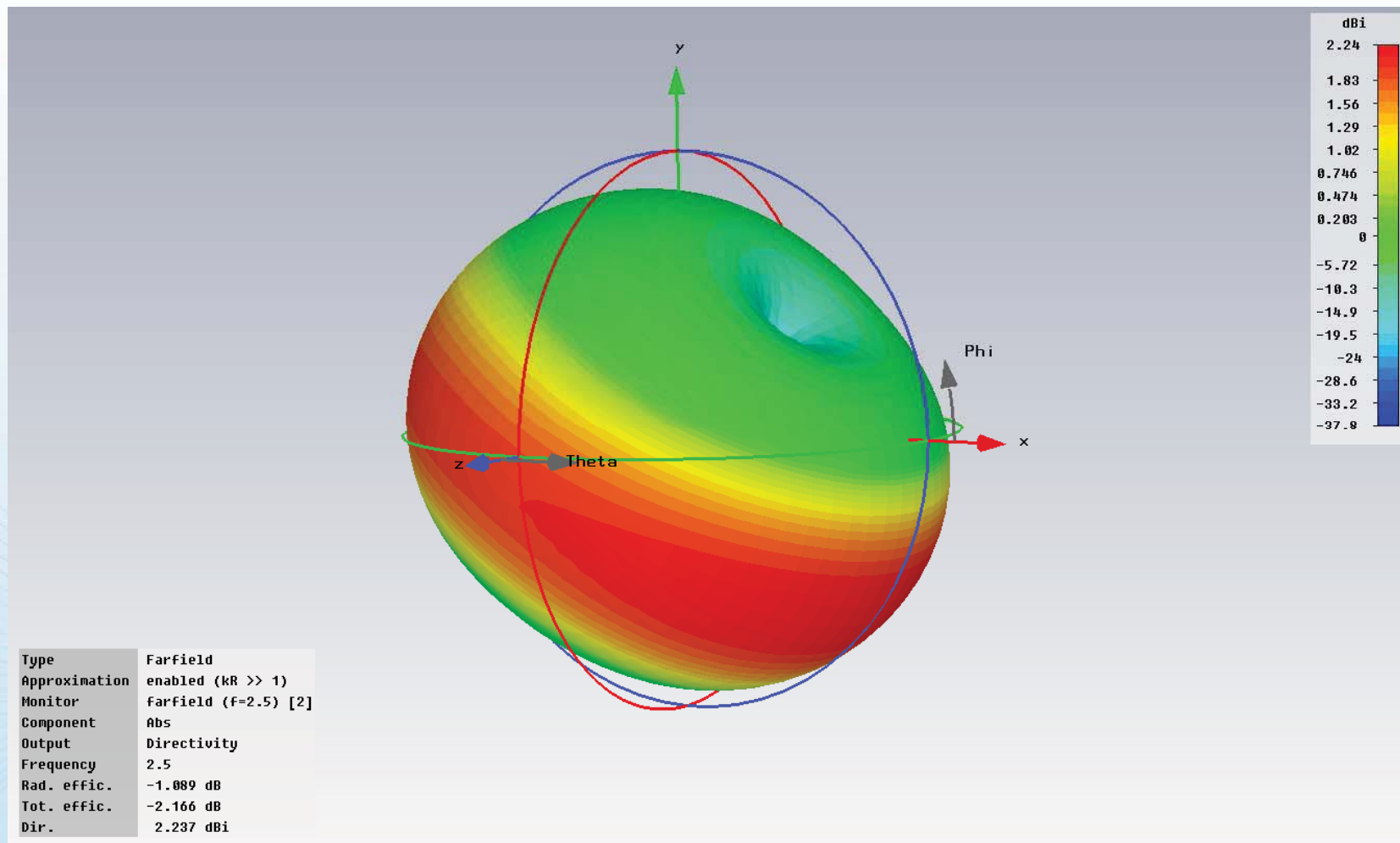


Master Wave

3D Radiation Pattern @2500 MHz



Antenna-2



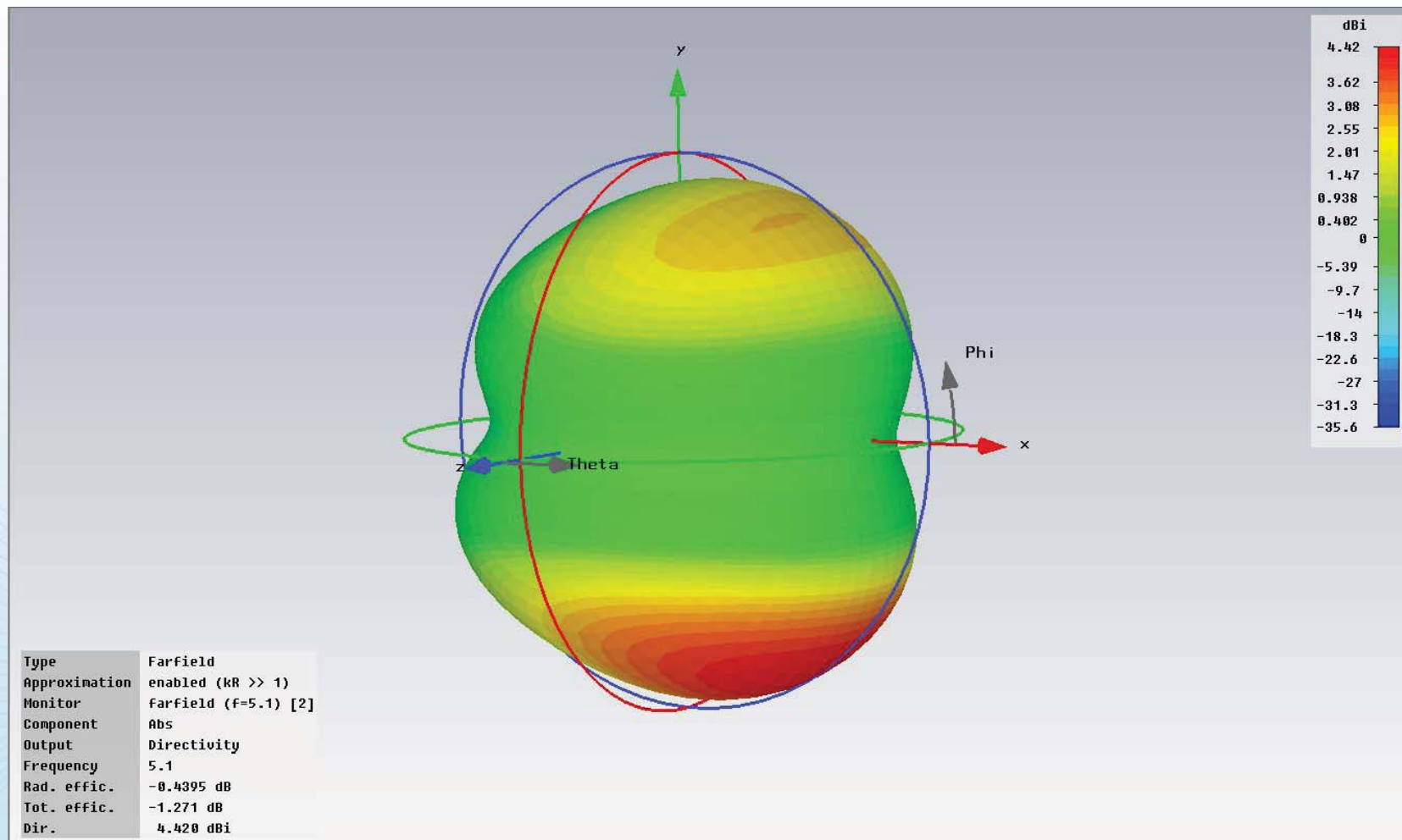


Master Wave

3D Radiation Pattern @5100 MHz



Antenna-2



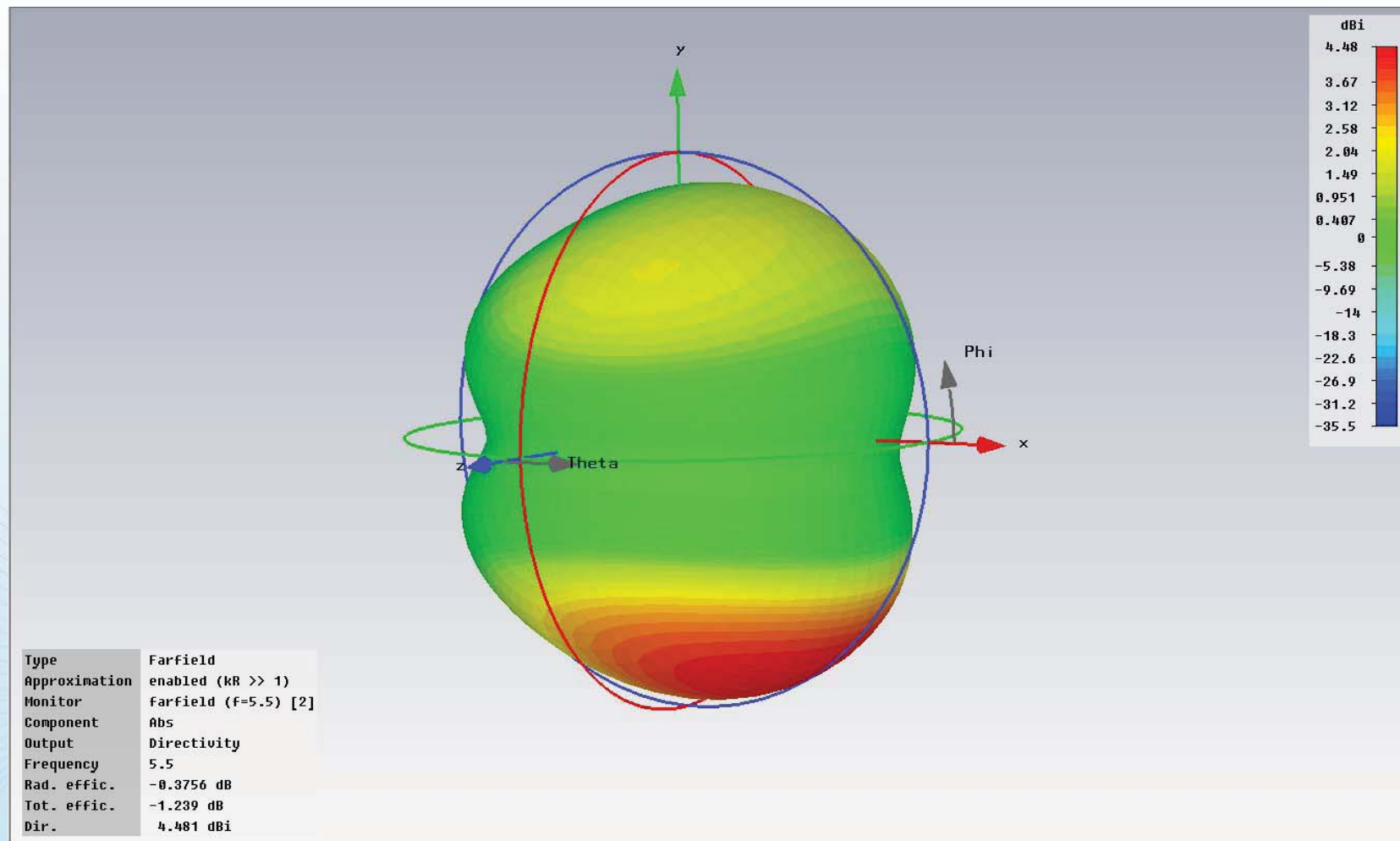


Master Wave

3D Radiation Pattern @5500 MHz



Antenna-2

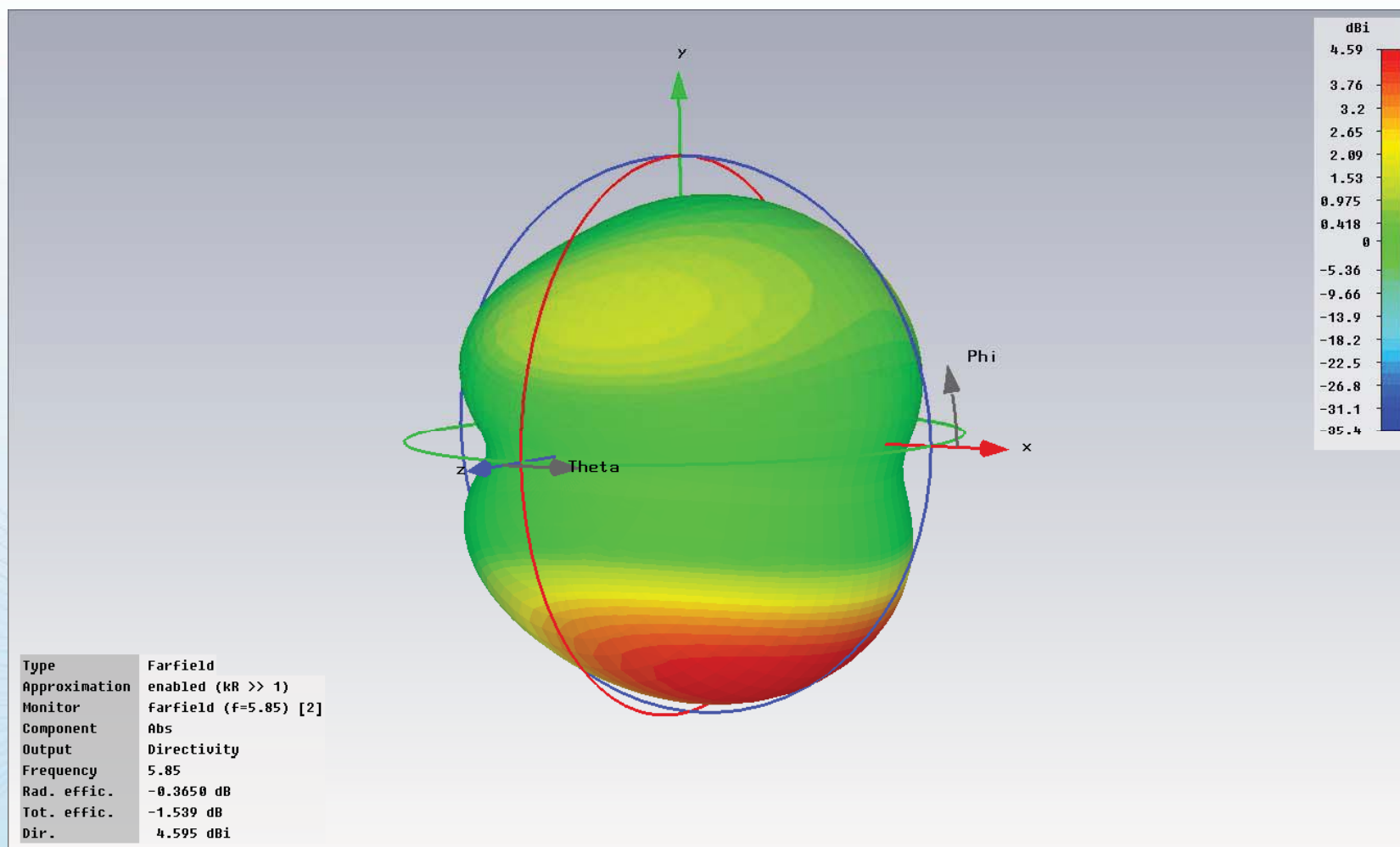




3D Radiation Pattern @5850 MHz



Antenna-2





Master Wave



Antenna

Gain

Antenna-2

Frequency (Mhz)	2400	2500	5100	5500	5850
Peak gain (dBi)	1.954	2	2.932	3	2.985
Average gain (dB)	-2.927	-2.166	-1.271	-1.239	-1.539
Efficiency (%)	50.97	60.73	74.63	75.18	70.16