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Antenna Specification

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Approval : Yin Tao

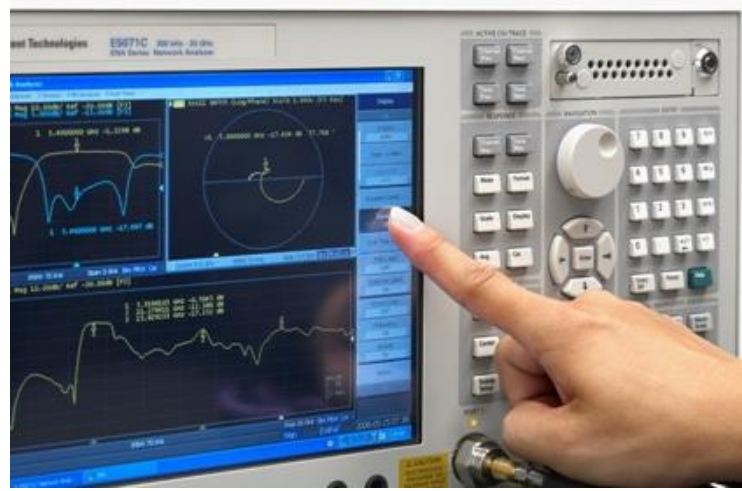
Date : 2026 / 3/ 17



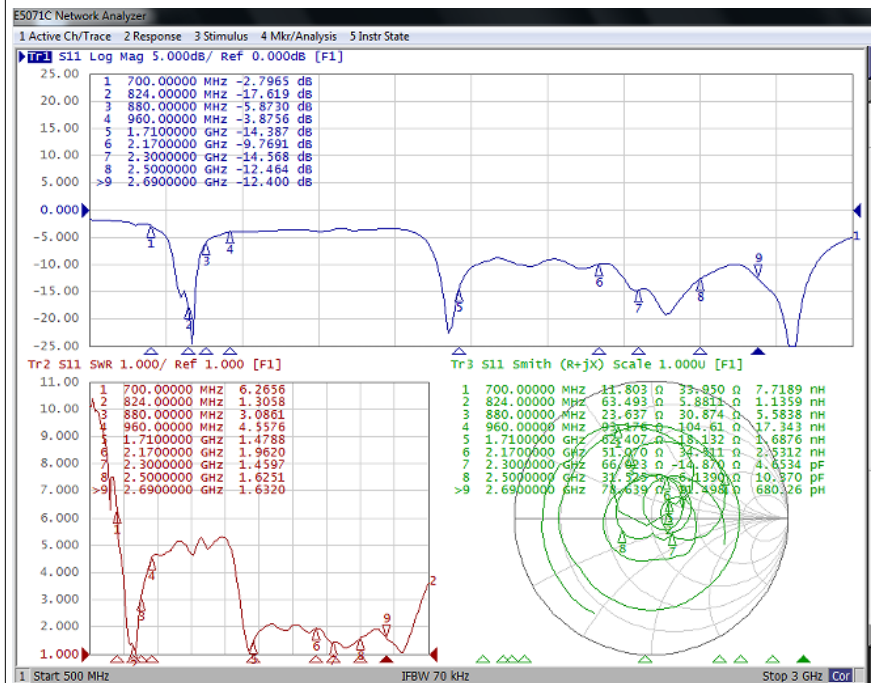
Project name	IM28
Name of antenna	FPC
Antenna form	LTE Main PIFA
Radiate	Omni-directional
Polarization	Line polarization



Agilent E5071B



S Parameter Test // LTE Main Antenna





Passive Test For LTE Main Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	3.4	-14.7	-12.0
730	7.6	-11.2	-7.0
760	20.3	-6.9	-2.9
790	30.2	-5.2	-1.4
820	16.8	-7.7	-4.6
850	23.6	-6.3	-2.3
880	21.2	-6.7	-2.1
910	17.0	-7.7	-2.5
940	12.2	-9.2	-3.8
960	6.6	-11.8	-6.1



Passive Test For LTE Main Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	29.6	-5.3	-1.0
1750	34.2	-4.7	0.6
1790	33.4	-4.8	1.3
1830	31.0	-5.1	1.5
1870	25.0	-6.0	0.4
1910	24.8	-6.1	-1.0
1950	27.8	-5.6	-1.0
1990	31.8	-5.0	-0.7
2030	35.0	-4.6	-0.7
2070	31.5	-5.0	-1.6
2110	29.0	-5.4	-1.9
2150	27.3	-5.6	-1.9
2170	26.0	-5.9	-2.0

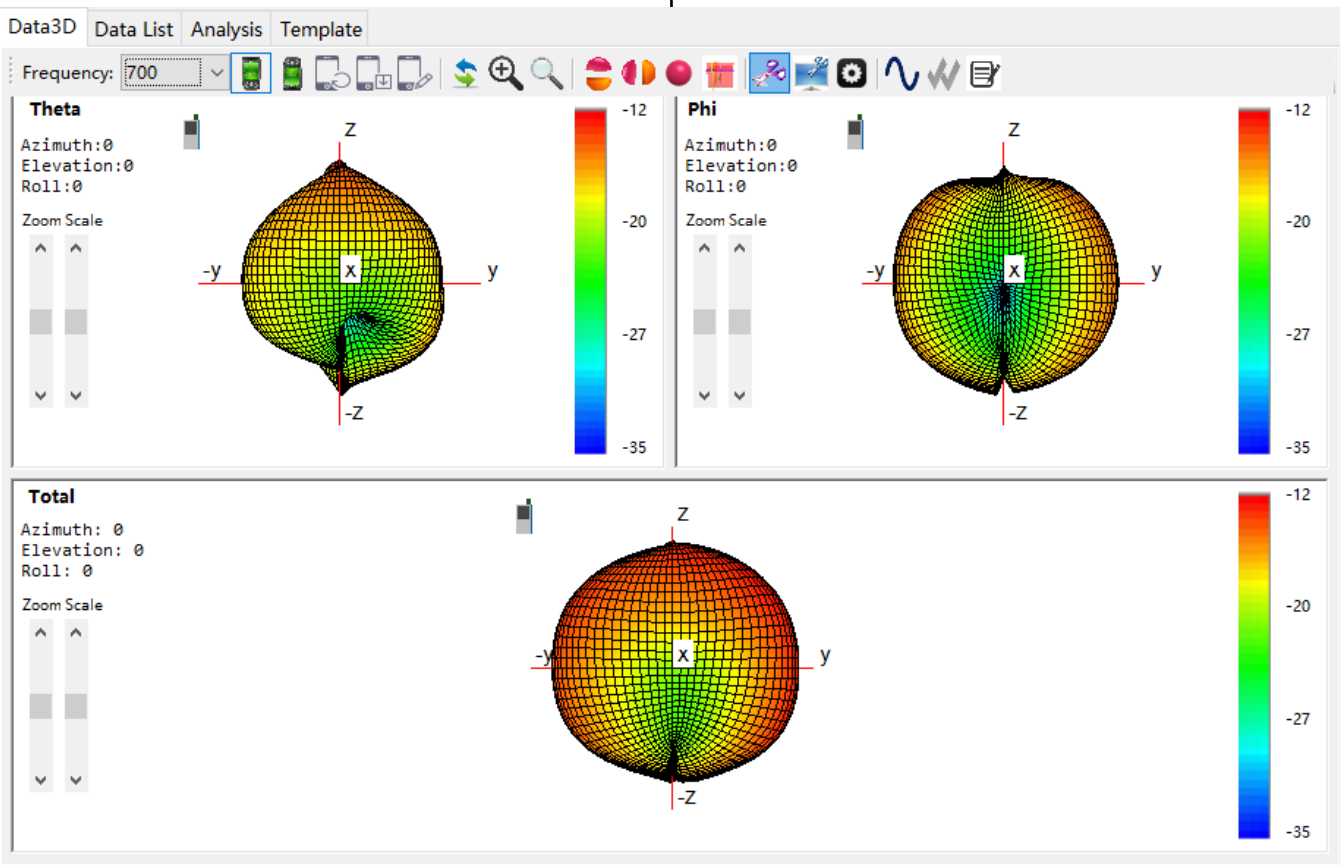


Passive Test For LTE Main Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2300	32.9	-4.8	2.2
2340	33.3	-4.8	1.9
2380	37.3	-4.3	1.0
2420	38.7	-4.1	-0.1
2460	36.7	-4.4	-0.5
2500	35.7	-4.5	-0.1
2540	33.4	-4.8	0.3
2580	28.1	-5.5	-0.7
2620	21.7	-6.6	-1.3
2660	27.7	-5.6	0.0
2690	33.4	-4.8	-0.3

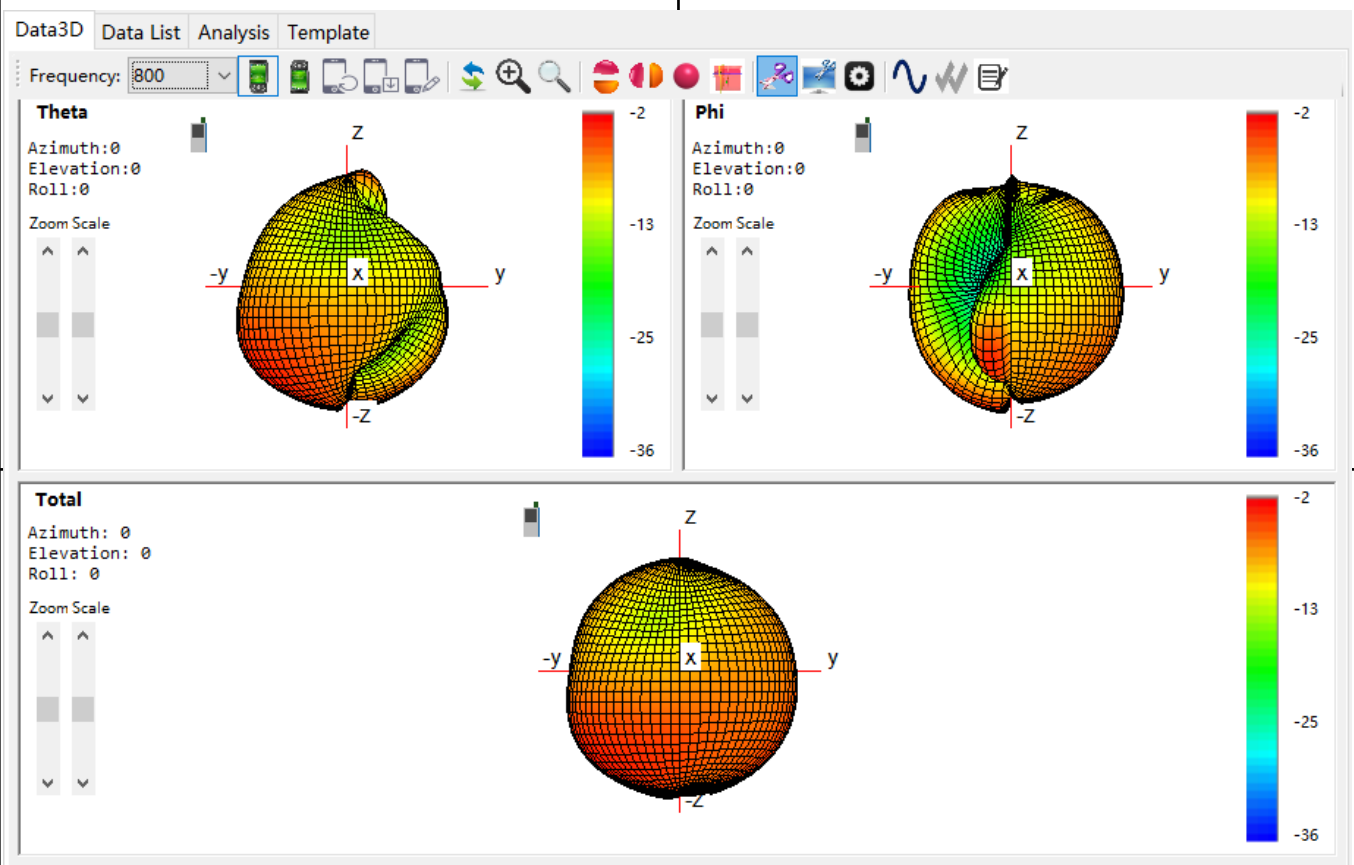


Radiation Pattern For LTE Main Antenna (700mhz)



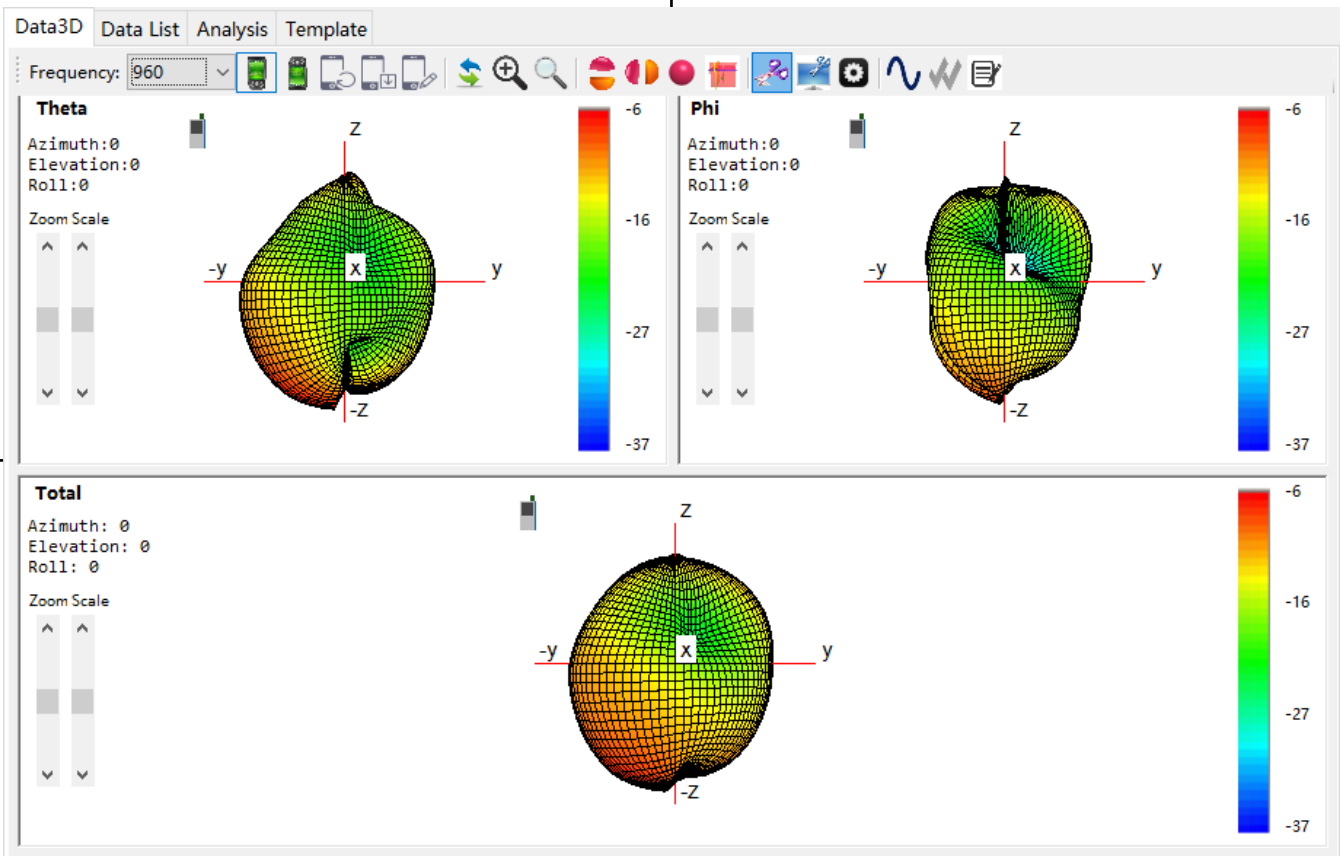


Radiation Pattern For LTE Main Antenna (800mhz)



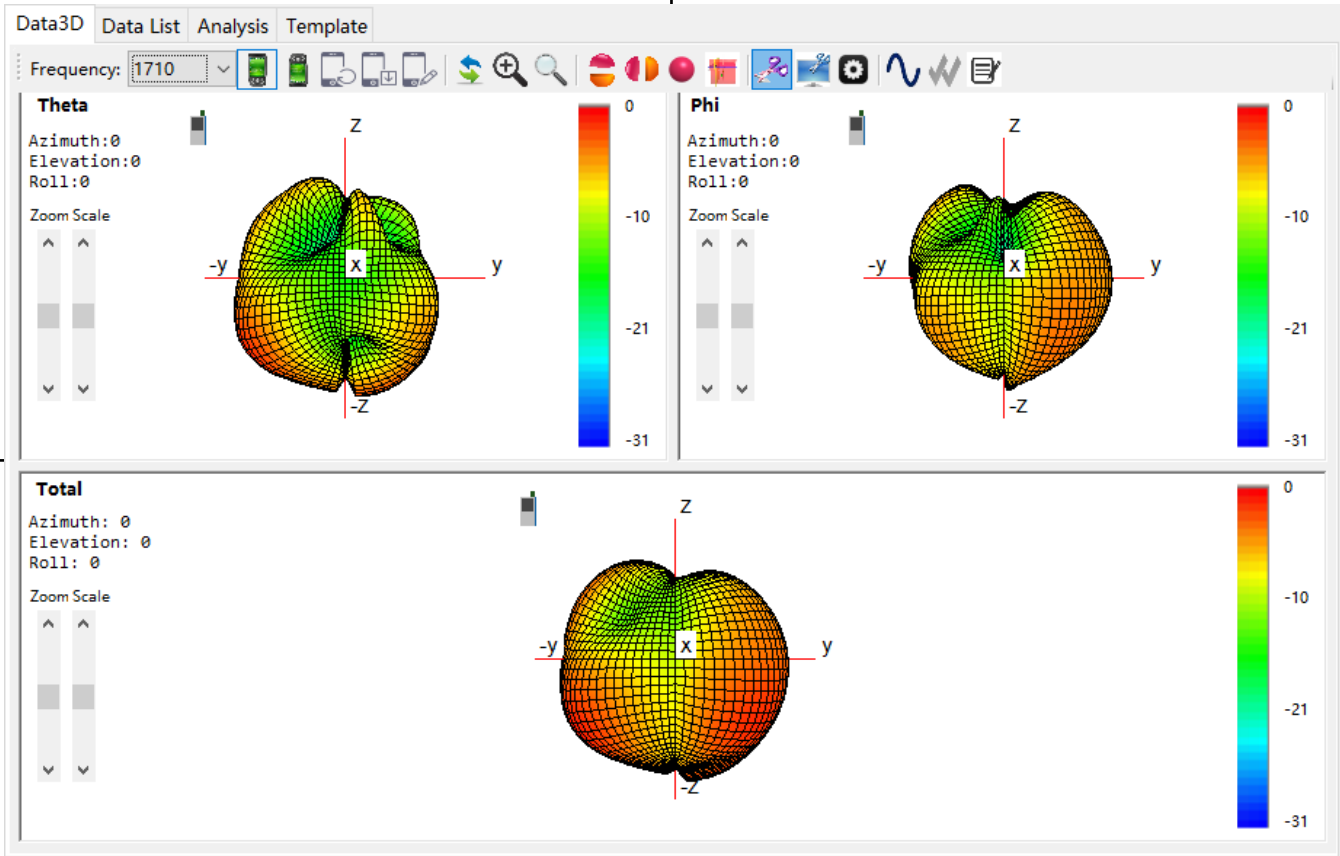


Radiation Pattern For LTE Main Antenna (960mhz)



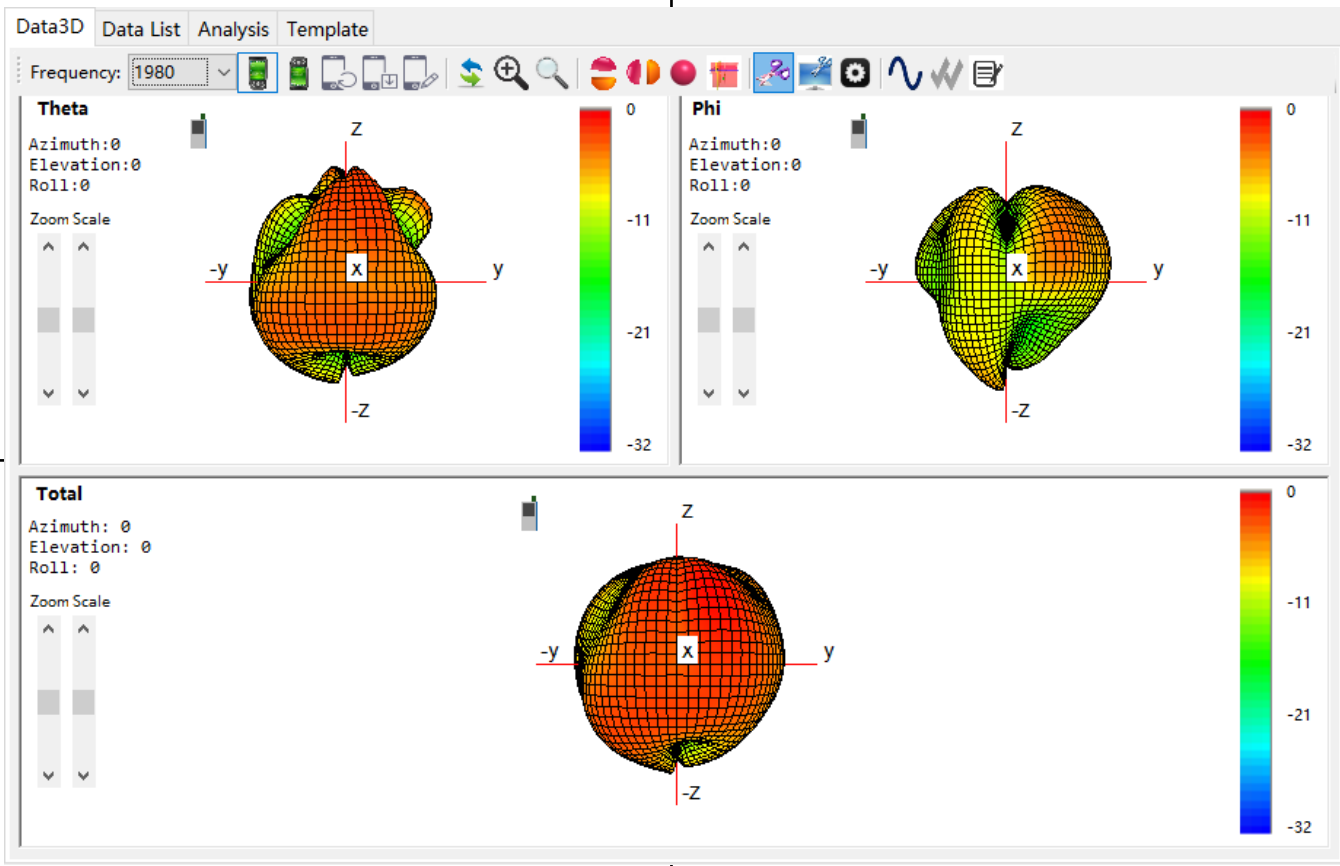


Radiation Pattern For LTE Main Antenna (1710mhz)



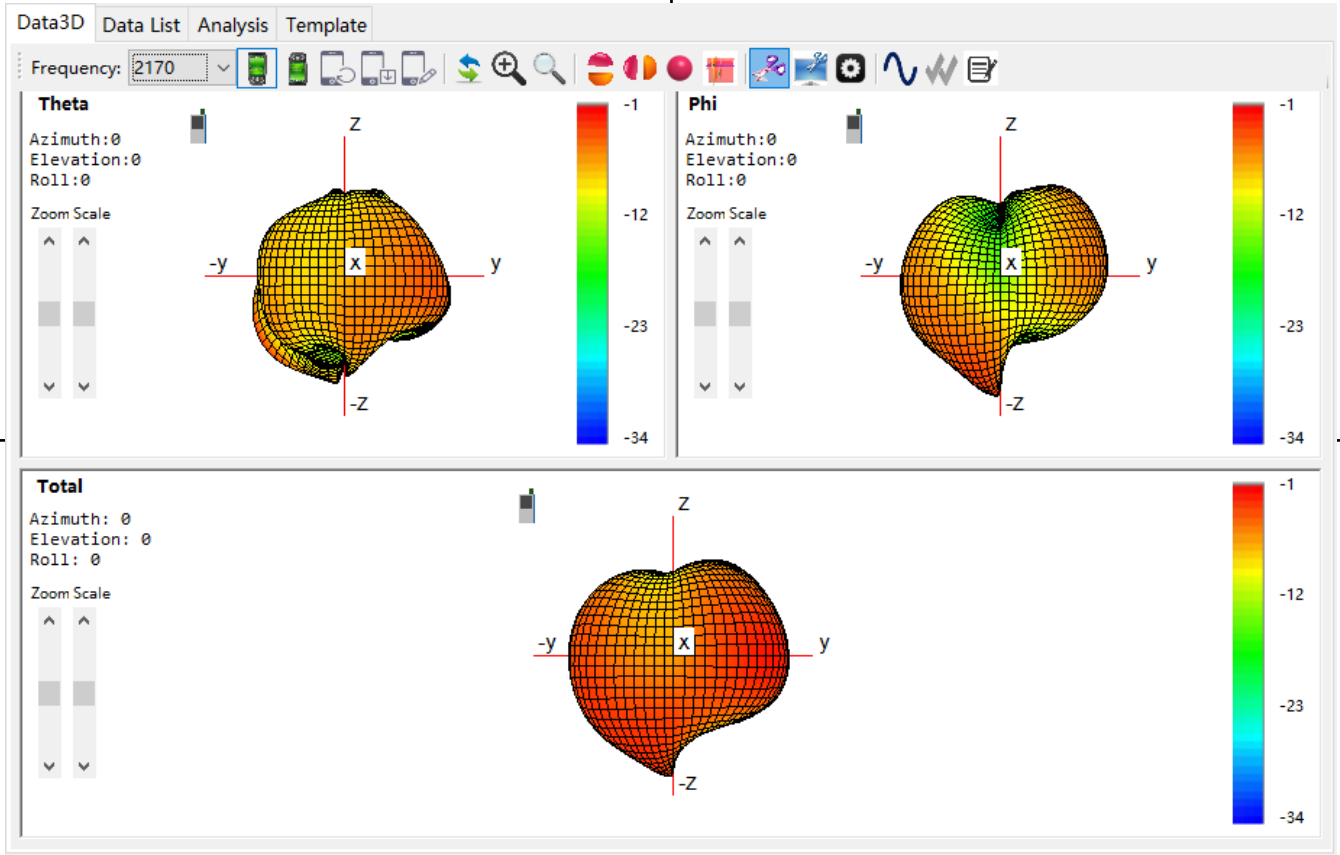


Radiation Pattern For LTE Main Antenna (1980mhz)



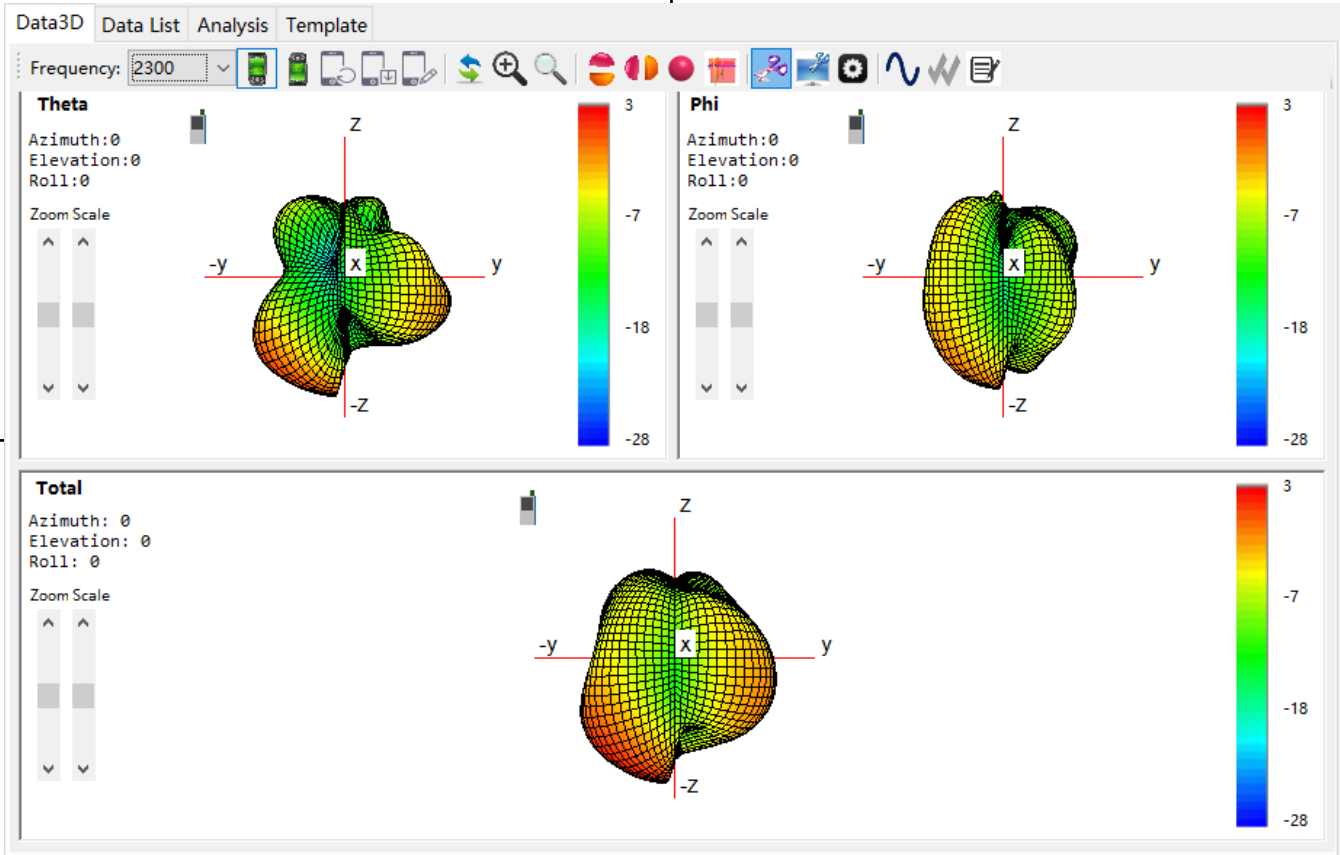


Radiation Pattern For LTE Main Antenna (2170mhz)



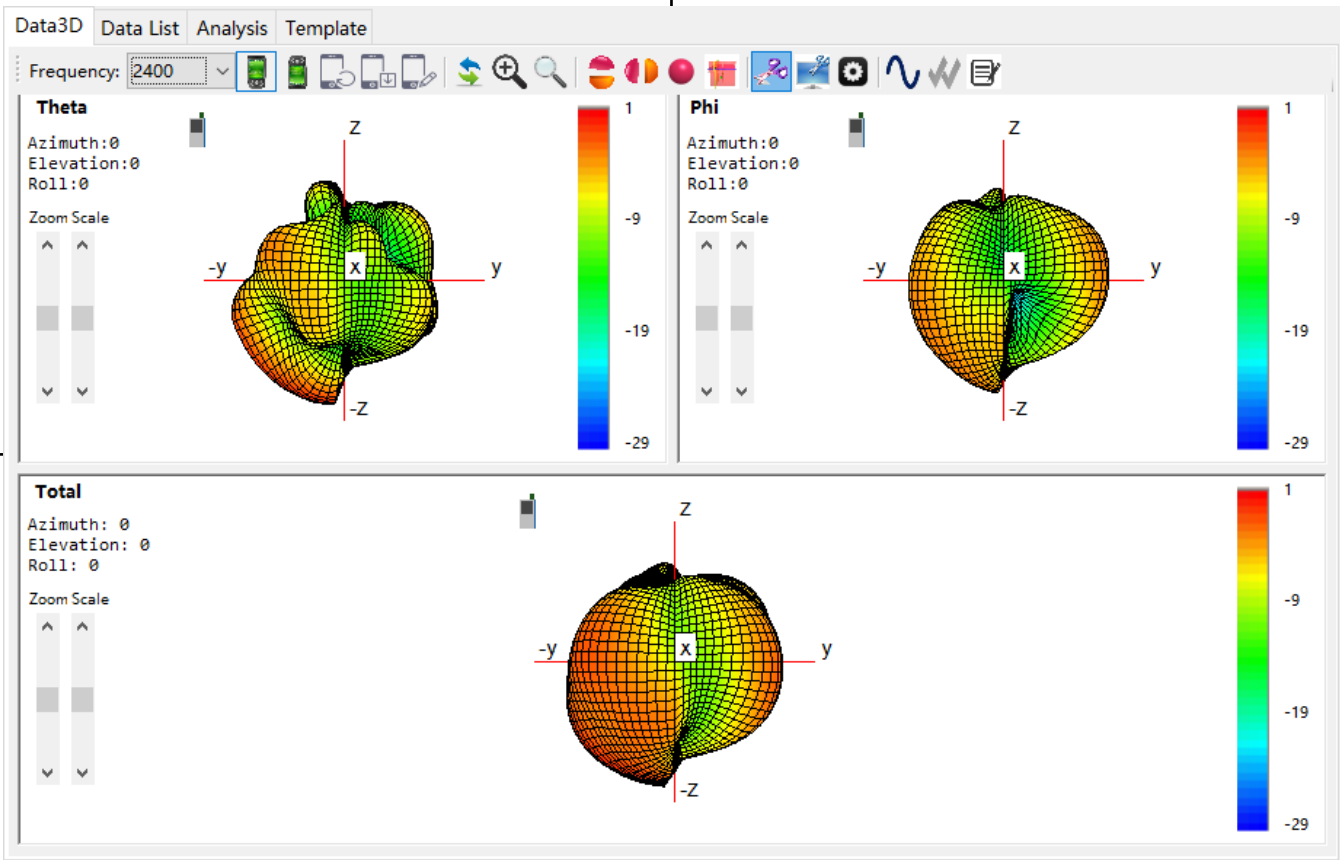


Radiation Pattern For LTE Main Antenna (2300mhz)



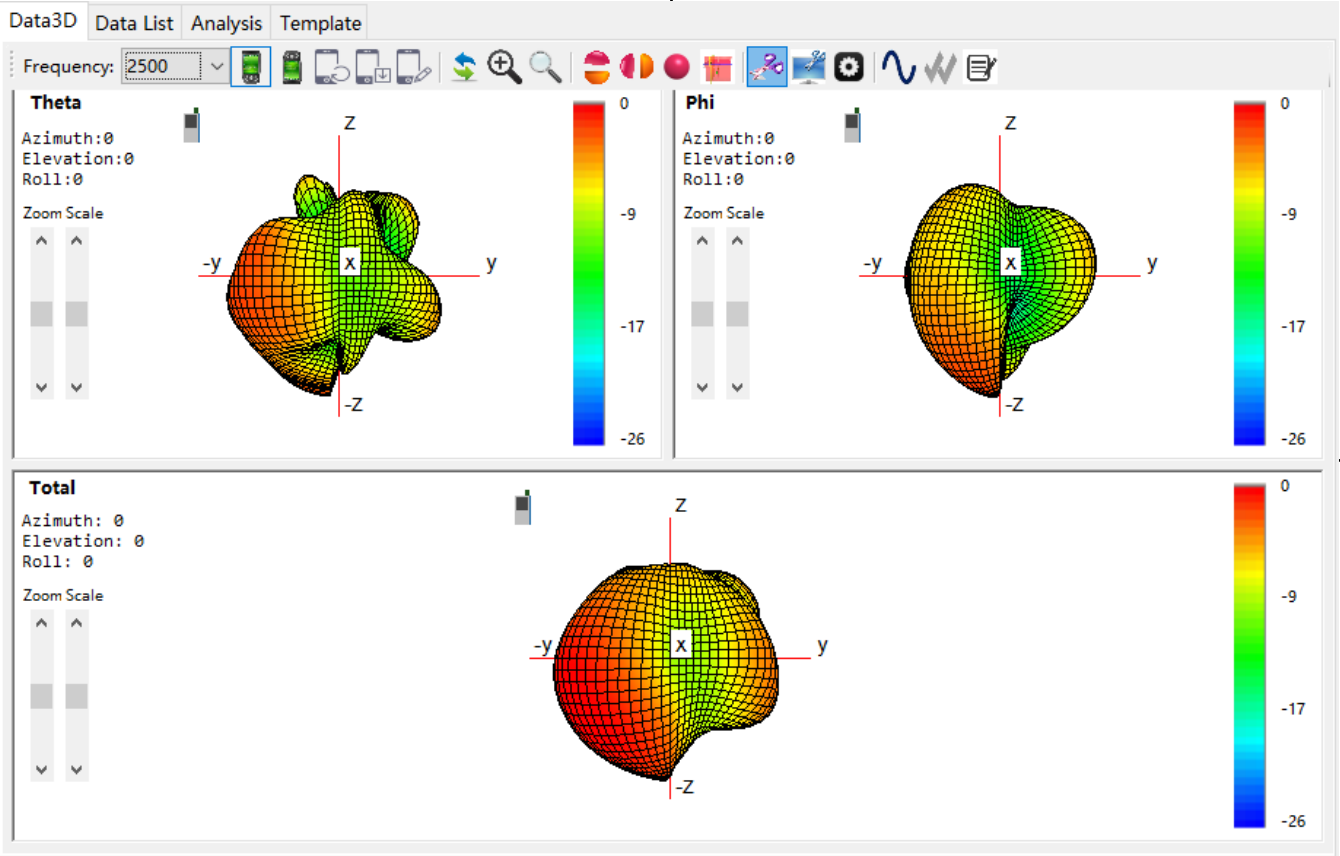


Radiation Pattern For LTE Main Antenna (2400mhz)





Radiation Pattern For LTE Main Antenna (2500mhz)





Radiation Pattern For LTE Main Antenna (2690mhz)

