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Province**

Antenna Test Report

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Tester : Li Guang Lei

Approval :Yin Tao

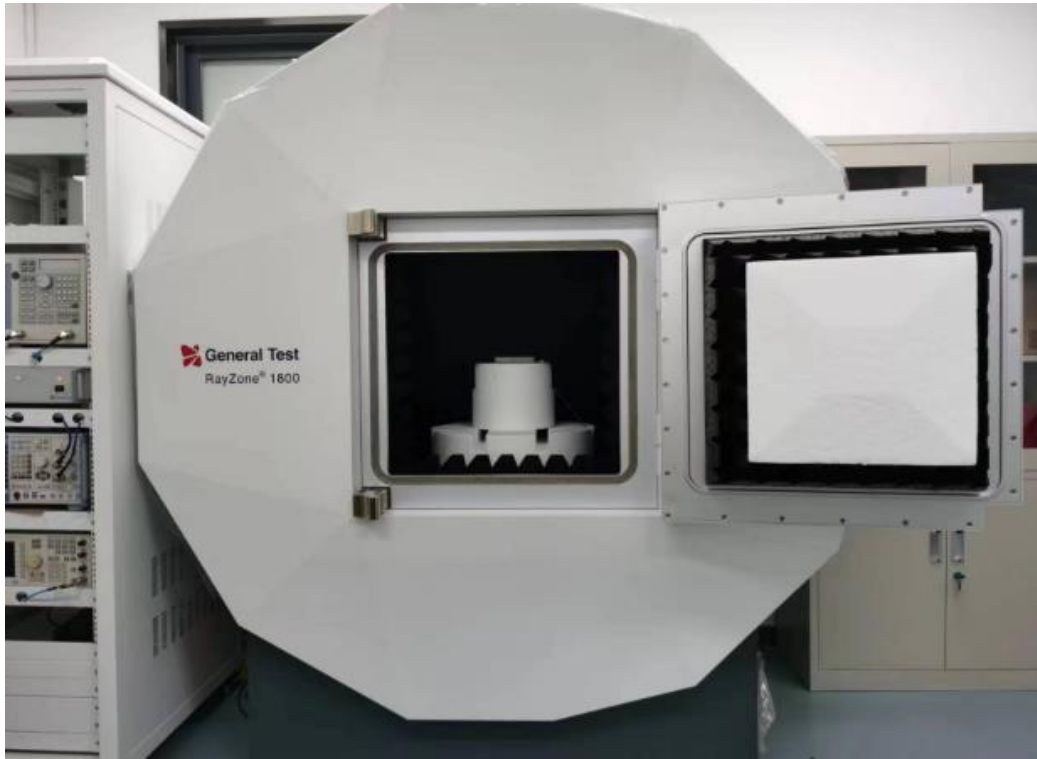
Date : 2025 / 09/ 04



Project name	A5000
Name of antenna	FPC
Antenna form	LTE PIFA
	GPS/WIFI/BT PIFA
Radiate	Omni-directional
Polarization	Line polarization



1. Antenna Passive Test





2. *Device Profile*

<i>Device</i>	please refer to the external photos.
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test equipment list

Equipment	Manufacturer	Model No	Serial No	Last Cal	Due Date
Metnetwork Analyzer	Agilent	E5071C	MY46686666	2025/7/15	2026/1/15
Antenna	GTS	Probe antenna12Matrix	NC	2025/4/8	2026/4/8
Chamber	General Test	RayZone ©1800	CT10123480A2258	2025/4/8	2026/4/8



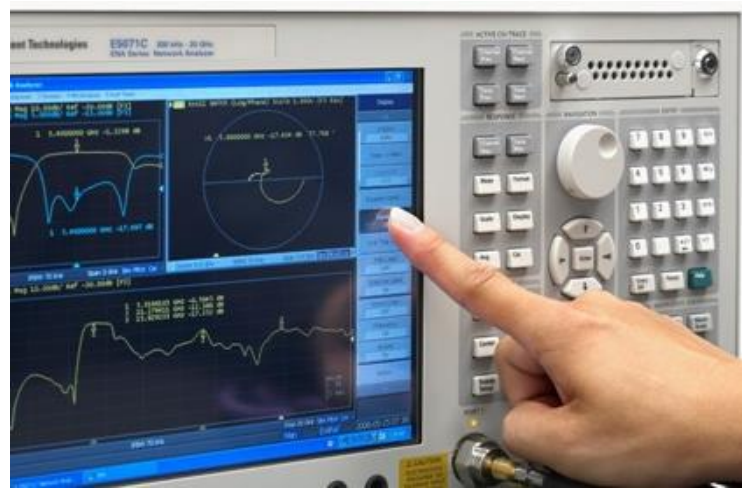
3. LTE Antenna Test

please refer to the internal
photos.

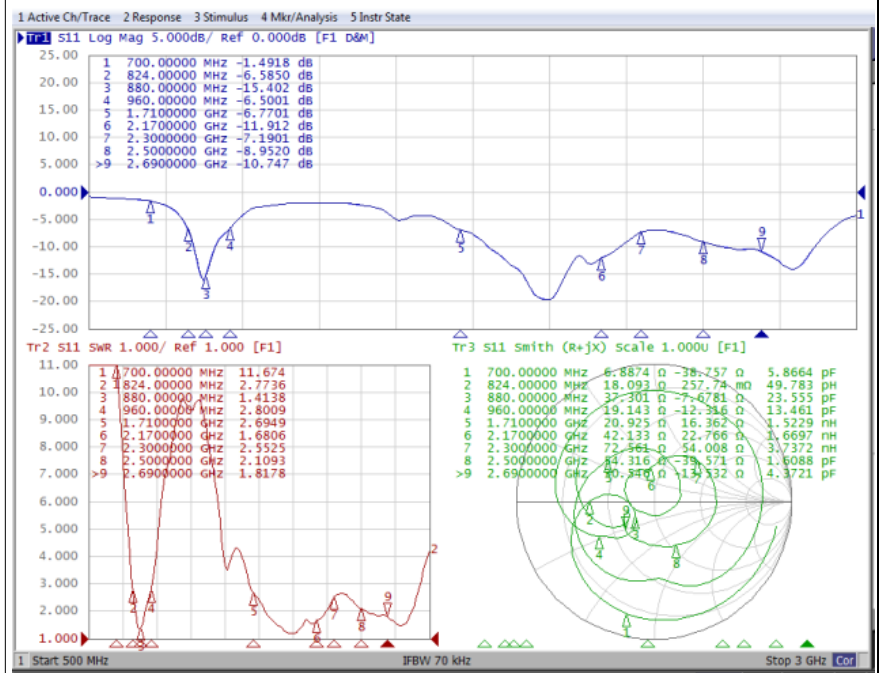
***LTE
Antenna***



Agilent E5071B



S Parameter Test // LTE Antenna





Passive Test For LTE Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	2.2	-16.6	-13.8
720	3.4	-14.7	-11.9
740	4.9	-13.1	-10.2
760	7.4	-11.3	-8.4
780	12.1	-9.2	-6.2
800	19.0	-7.2	-4.2
820	28.2	-5.5	-2.5
840	40.9	-3.9	-1.0
860	46.0	-3.4	-0.6
880	40.2	-4.0	-1.1
900	30.8	-5.1	-2.3
920	21.9	-6.6	-3.6
940	15.23	-8.17	-5.15
960	10.34	-9.85	-6.77



Passive Test For LTE Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	39.7	-4.0	-0.5
1750	46.7	-3.3	0.2
1790	50.6	-3.0	0.6
1830	51.2	-2.9	0.6
1870	49.6	-3.1	0.5
1910	52.6	-2.8	1.0
1950	51.4	-2.9	1.0
1990	46.1	-3.4	0.7
2030	36.6	-4.4	-0.3
2070	24.3	-6.1	-1.4
2110	27.6	-5.6	-1.7
2150	36.7	-4.4	-0.6
2170	37.0	-4.3	-0.6

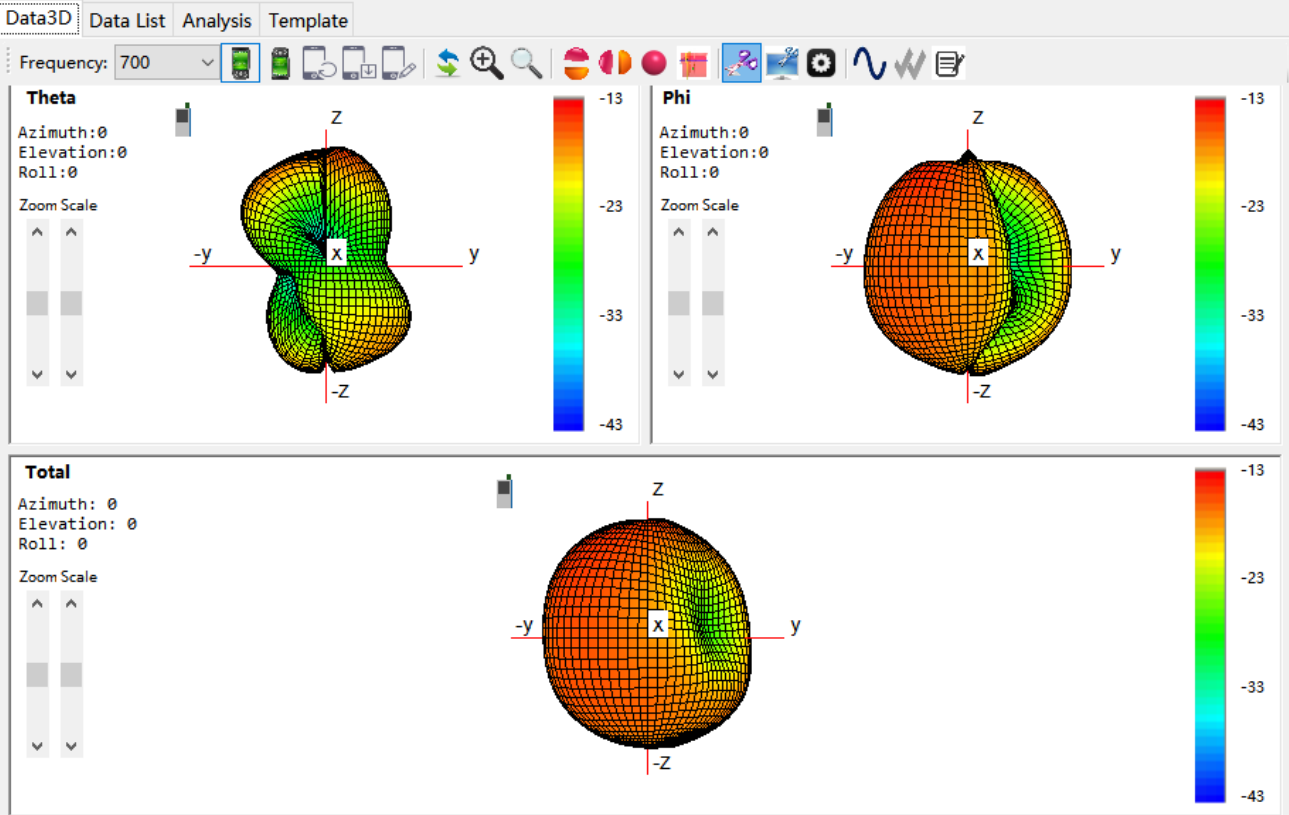


Passive Test For LTE Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2300	31.6	-5	-1.3
2340	28.6	-5.4	-1.7
2380	26.7	-5.7	-1.8
2420	24.3	-6.2	-2.0
2460	24.2	-6.2	-1.8
2500	27.0	-5.7	-1.3
2540	32.3	-4.9	-0.6
2580	37.3	-4.3	-0.4
2620	37.9	-4.2	0.3
2660	34.8	-4.6	0.6
2700	31.1	-5.1	0.3

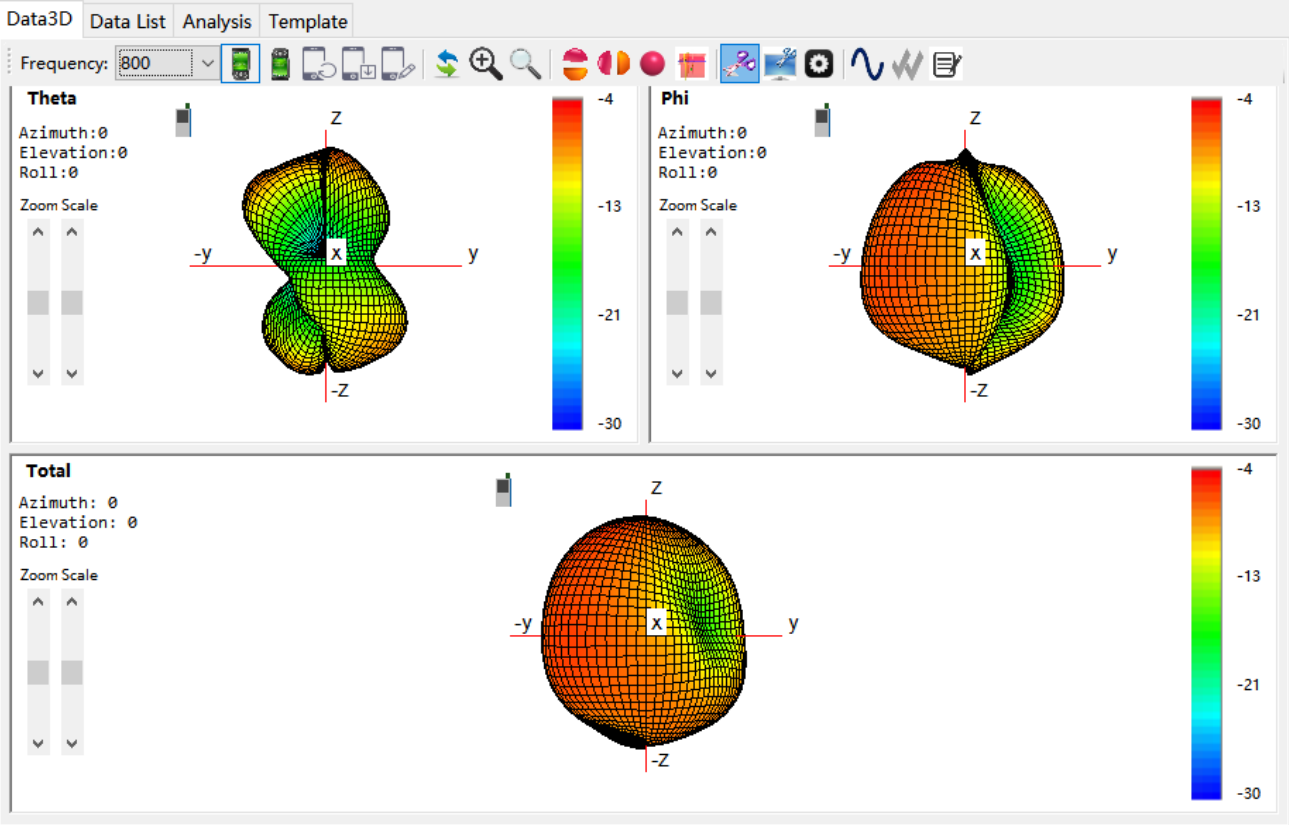


Radiation Pattern For LTE Antenna



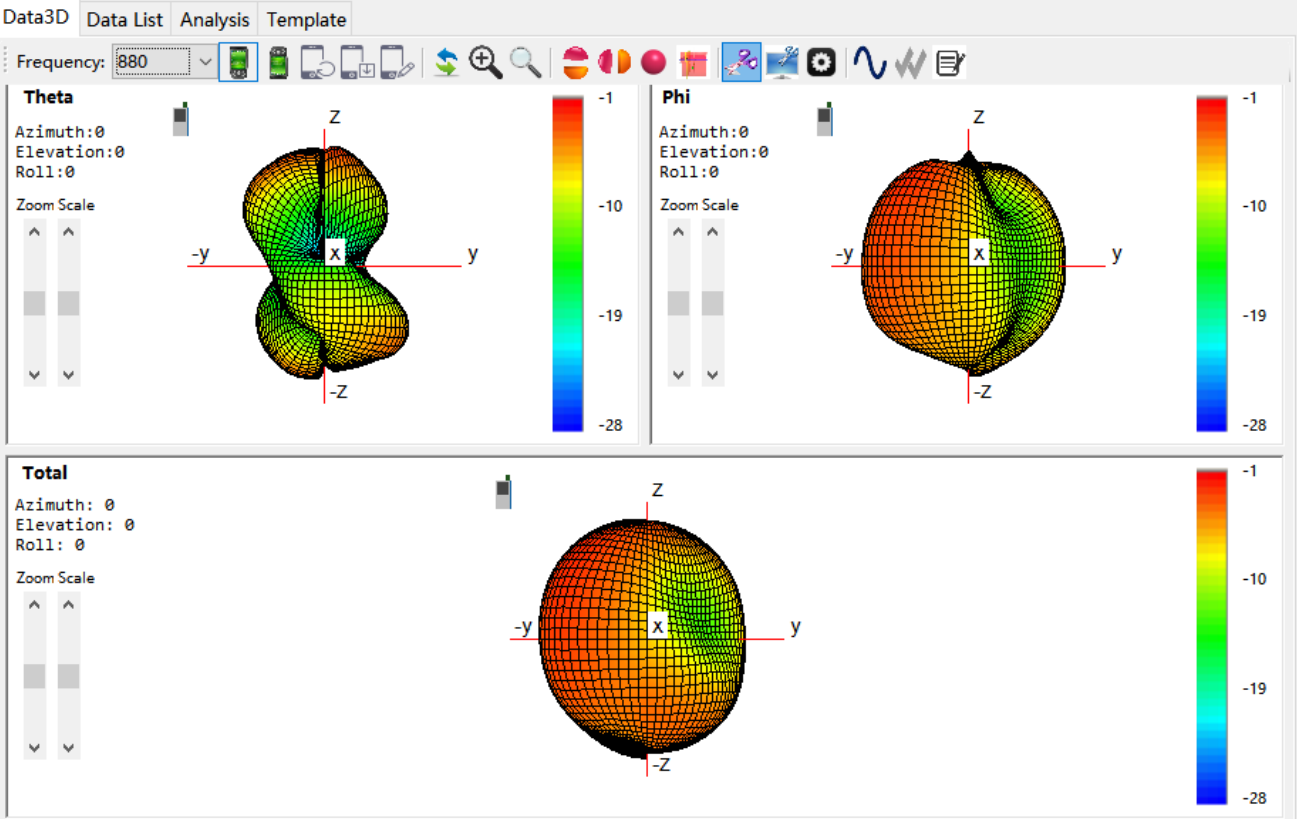


Radiation Pattern For LTE Antenna



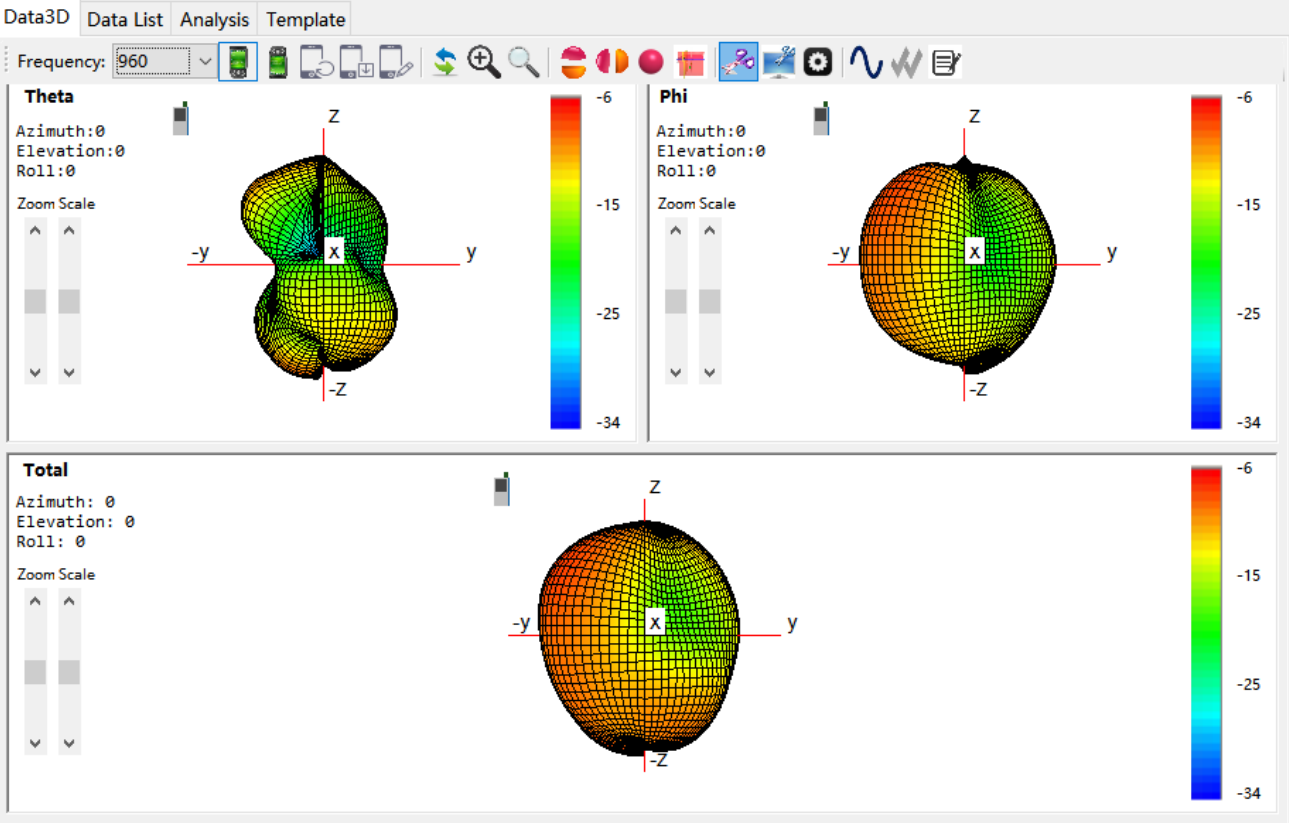


Radiation Pattern For LTE Antenna



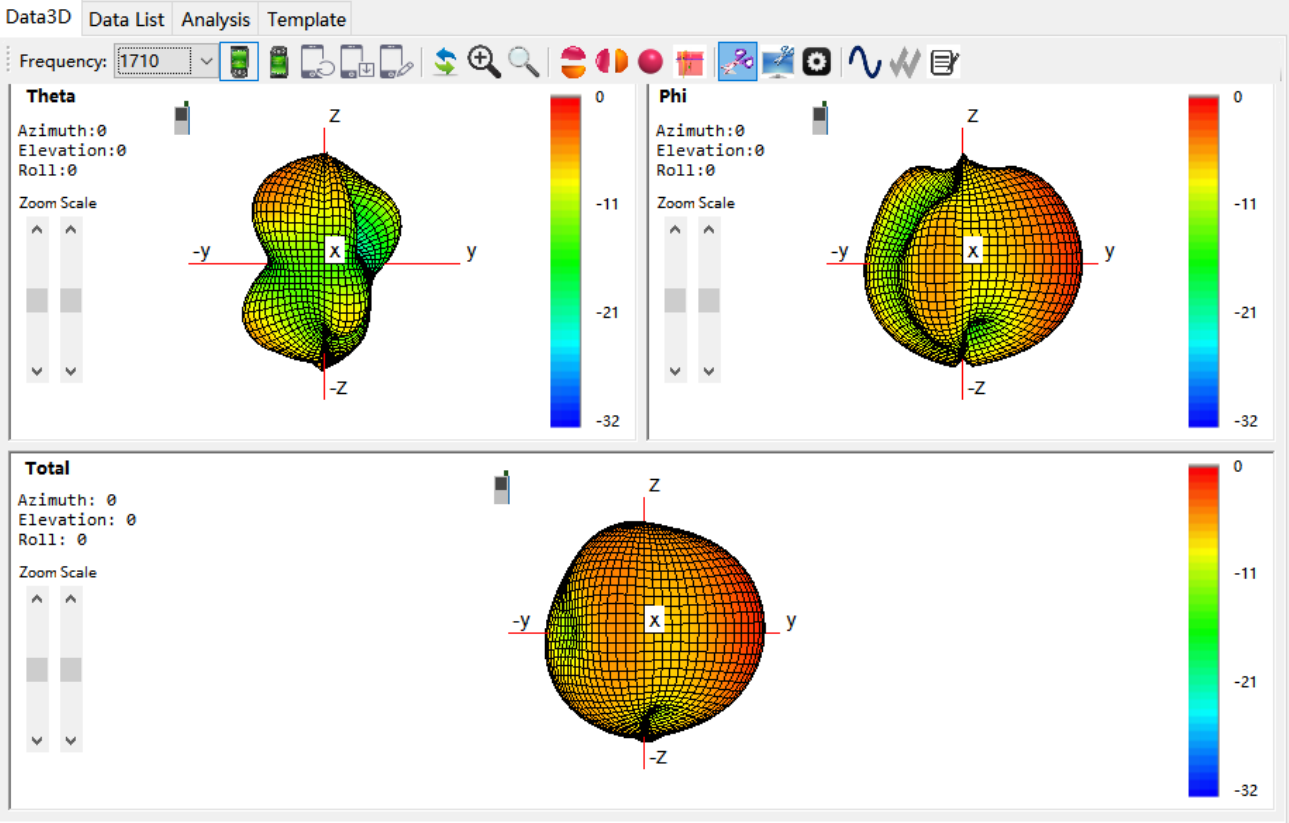


Radiation Pattern For LTE Antenna



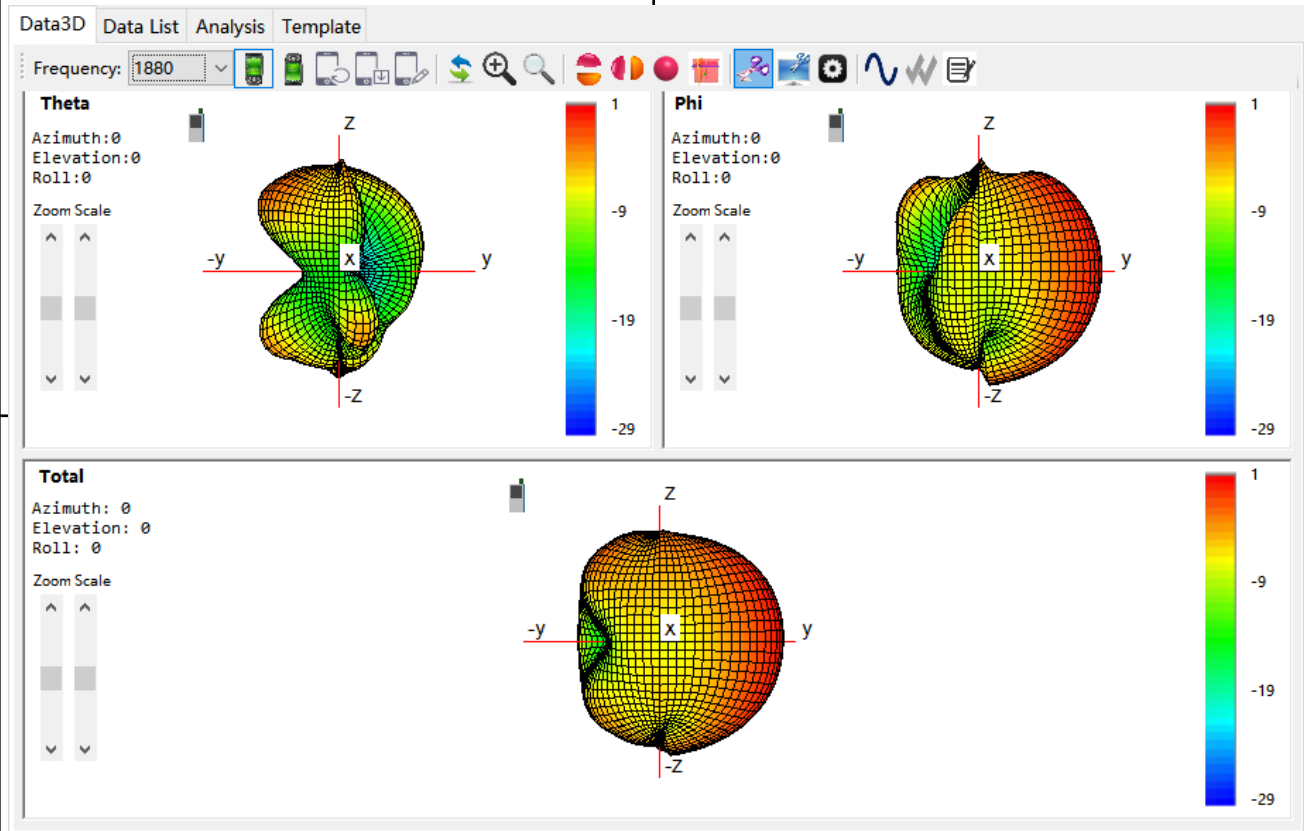


Radiation Pattern For LTE Antenna



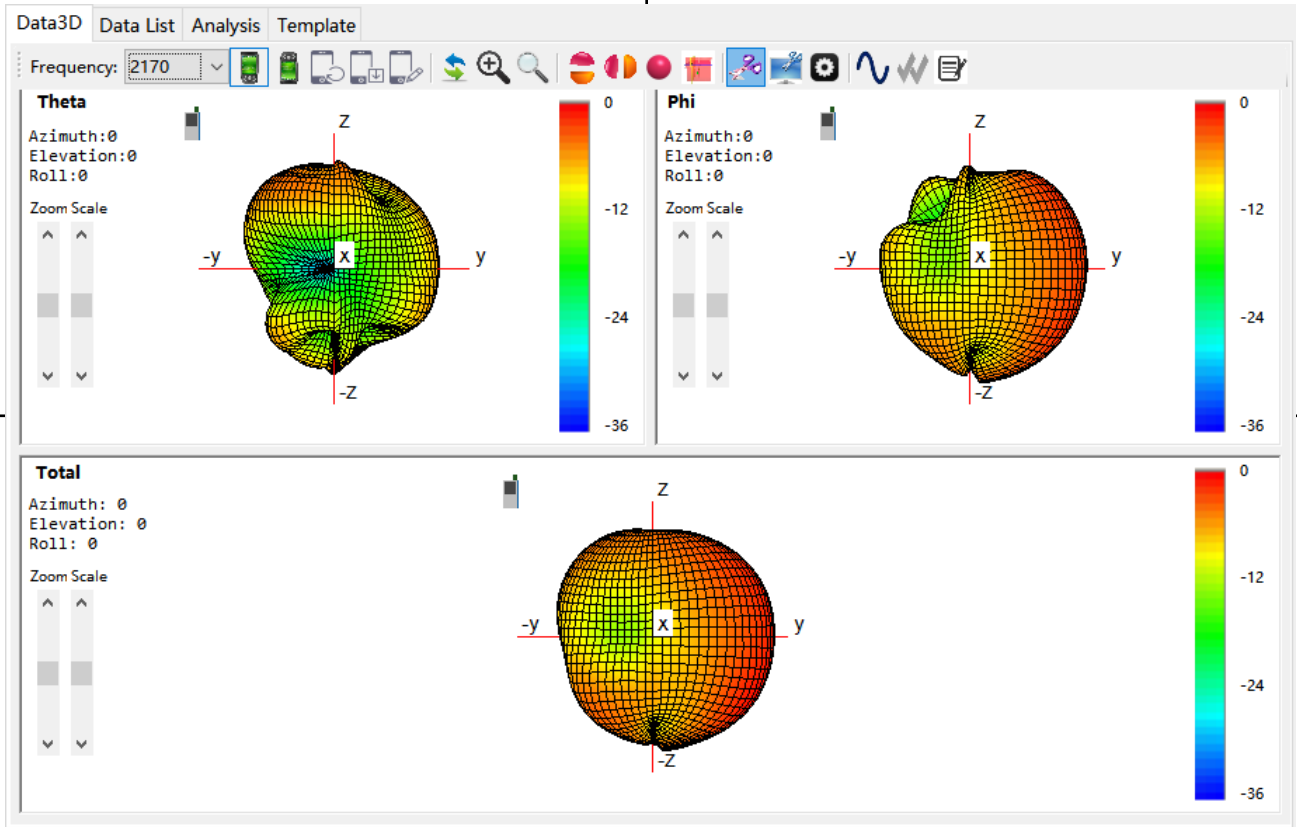


Radiation Pattern For LTE Antenna



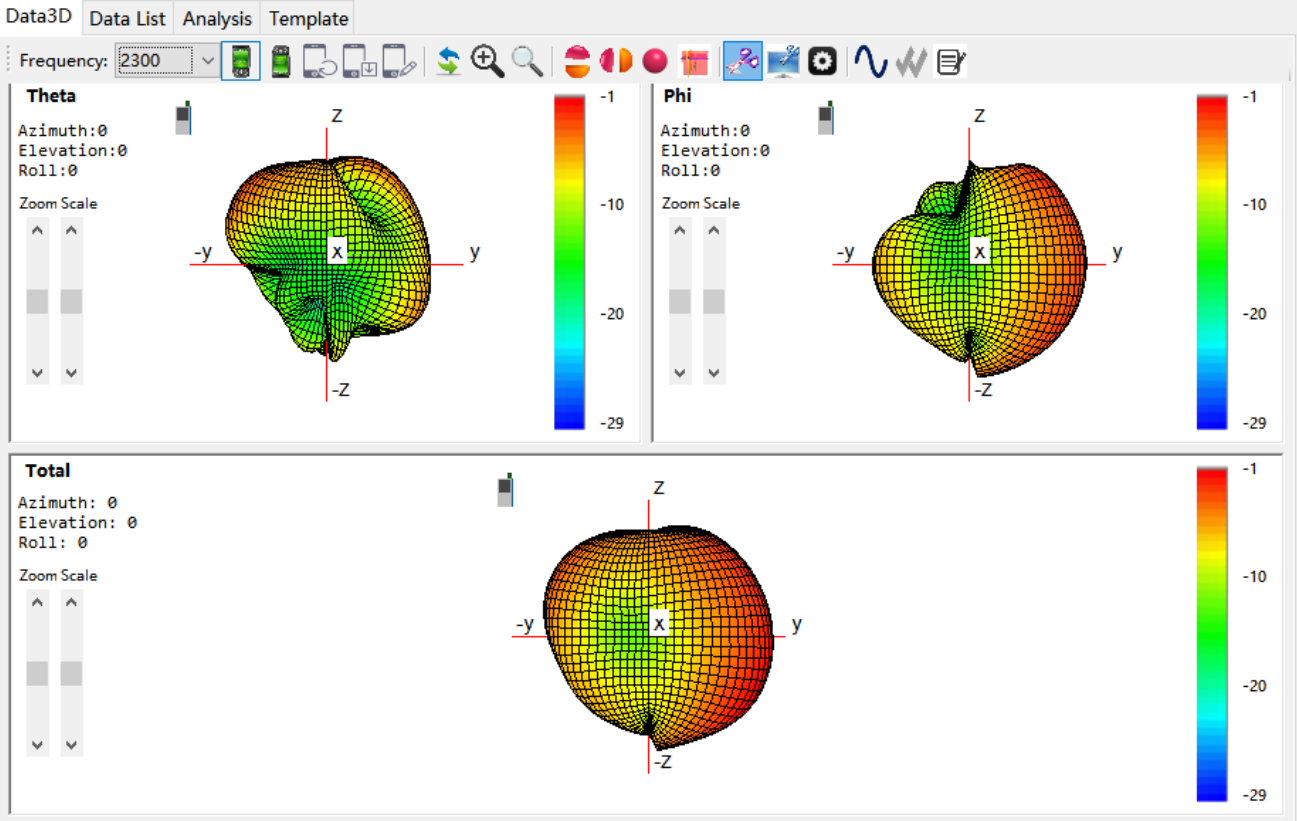


Radiation Pattern For LTE Antenna



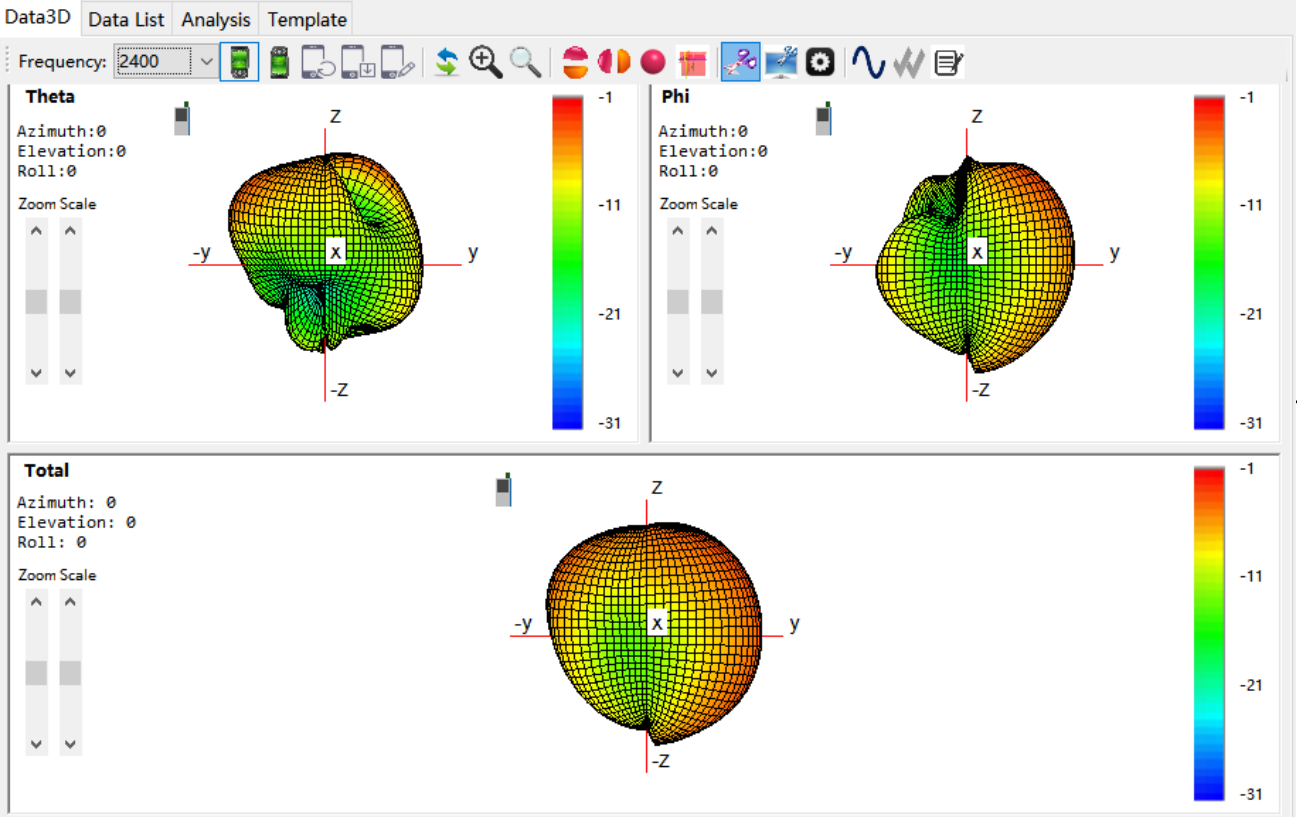


Radiation Pattern For LTE Antenna



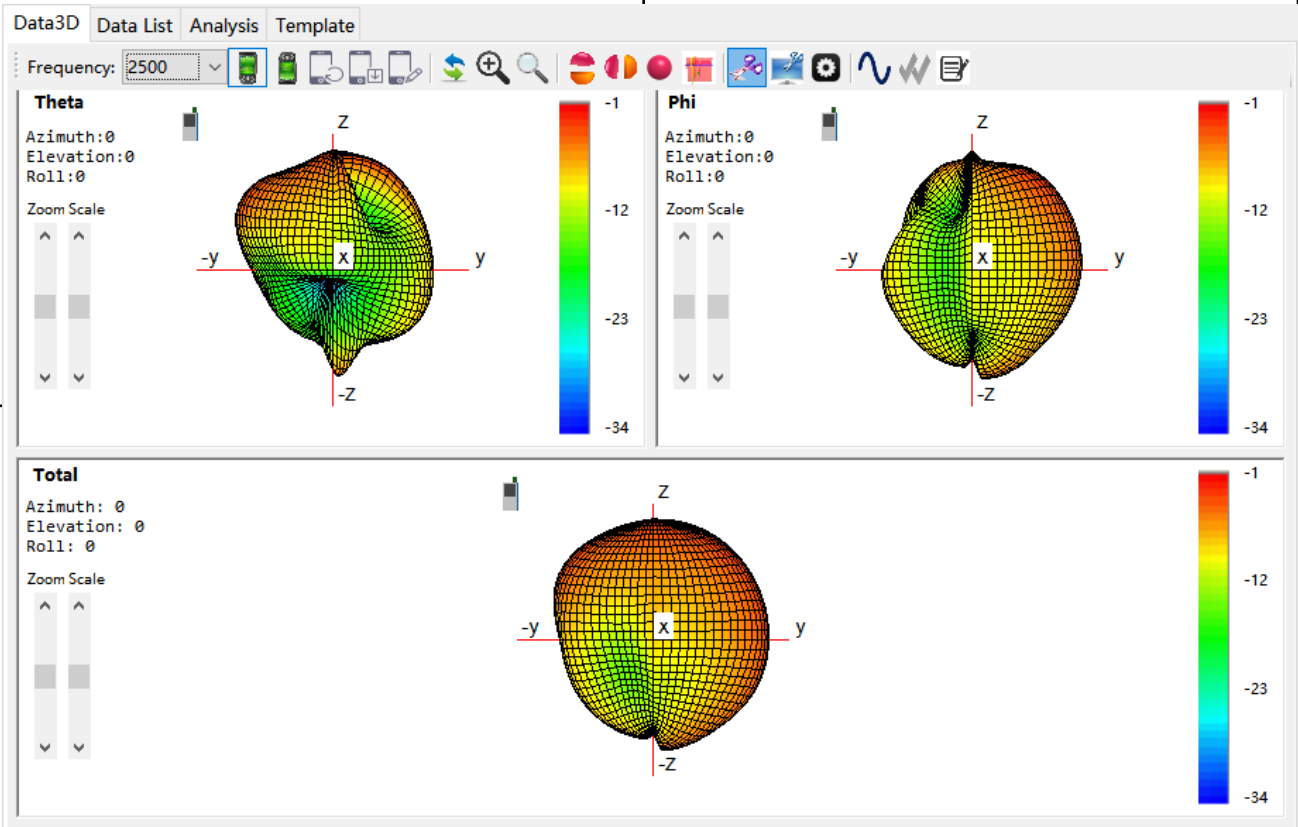


Radiation Pattern For LTE Antenna



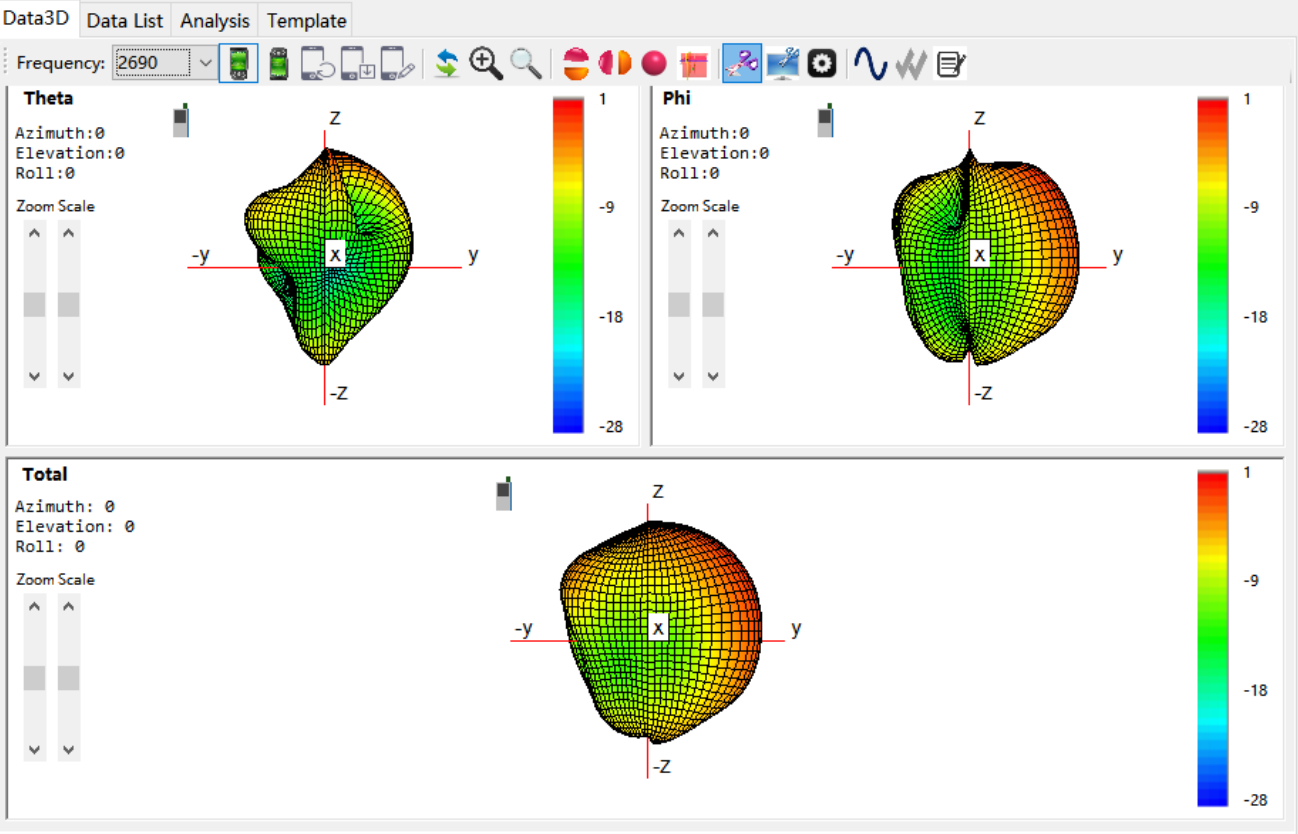


Radiation Pattern For LTE Antenna





Radiation Pattern For LTE Antenna





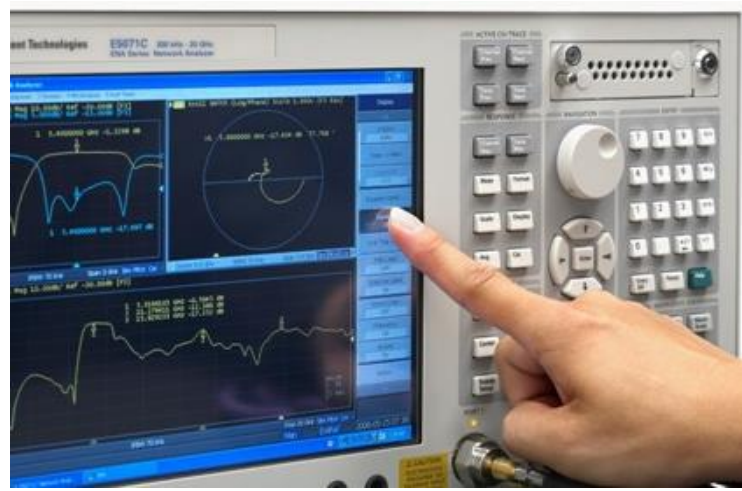
4. Gps/WiFi/BT Antenna Test

please refer to the internal photos.

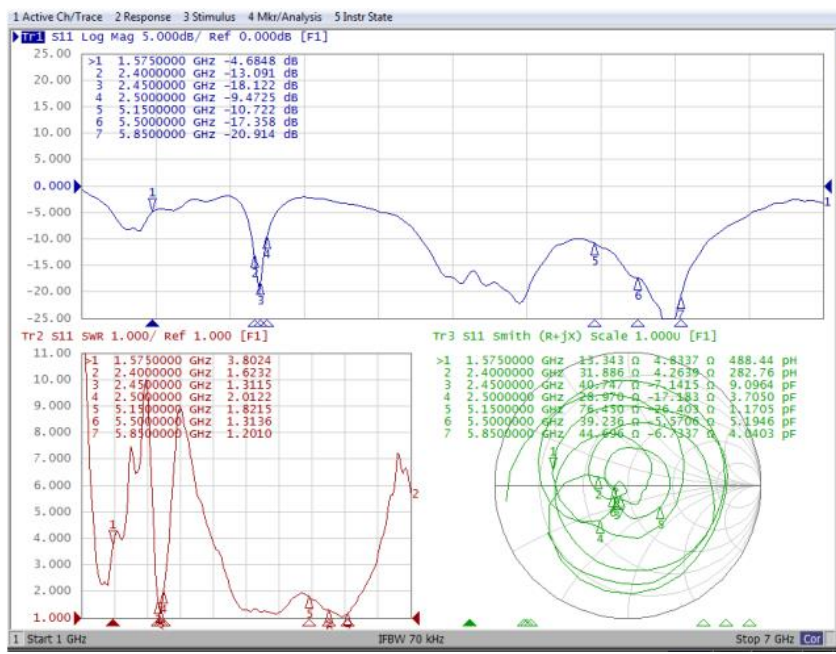
***Gps/WiF
i/BT
Antenna***



***Agilent
E5071B***



***S
Parameter
Test //
Gps/WiFi/BT
Antenna***



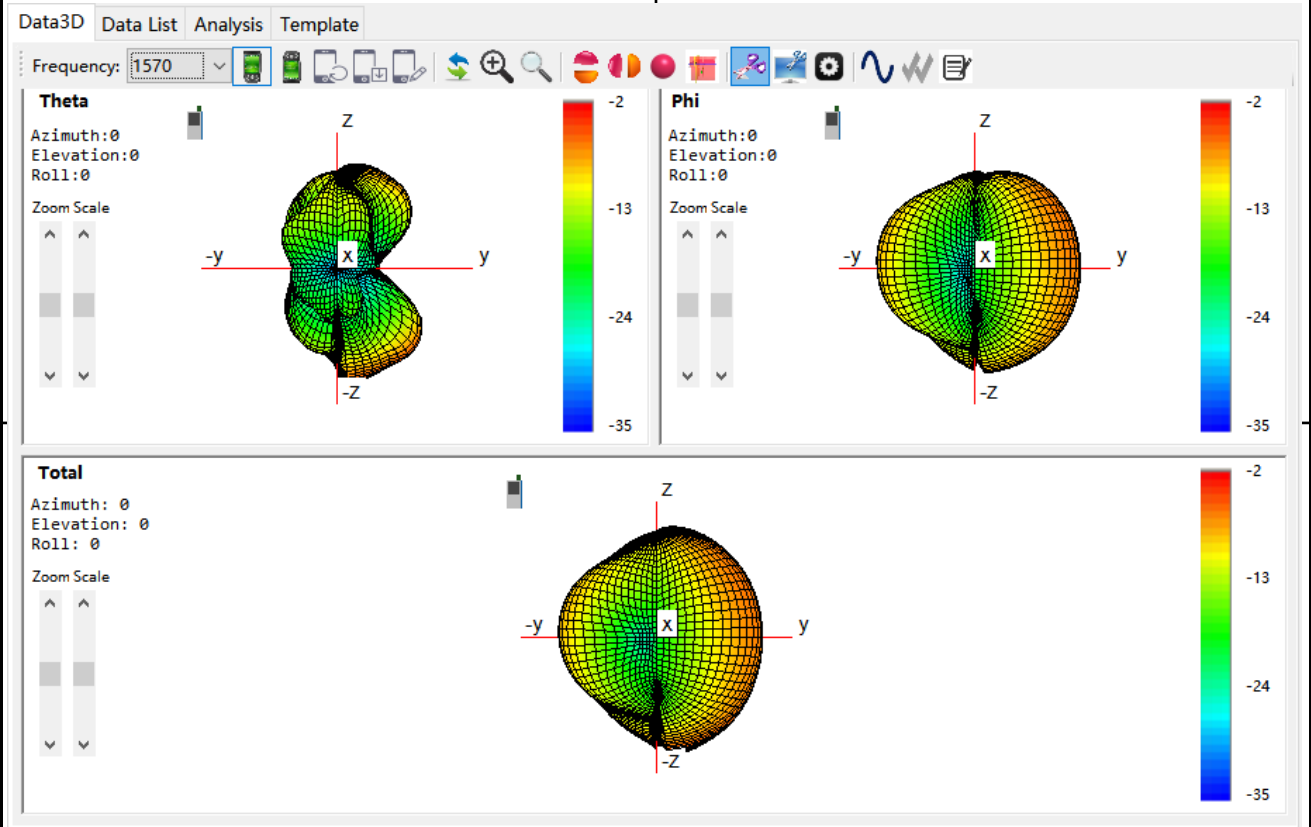


Passive Test For GPS Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1565	15.7	-8.0	-2.7
1570	15.7	-8.0	-2.6
1575	15.8	-8.0	-2.6
1580	15.7	-8.0	-2.6
1585	15.8	-8	-2.5

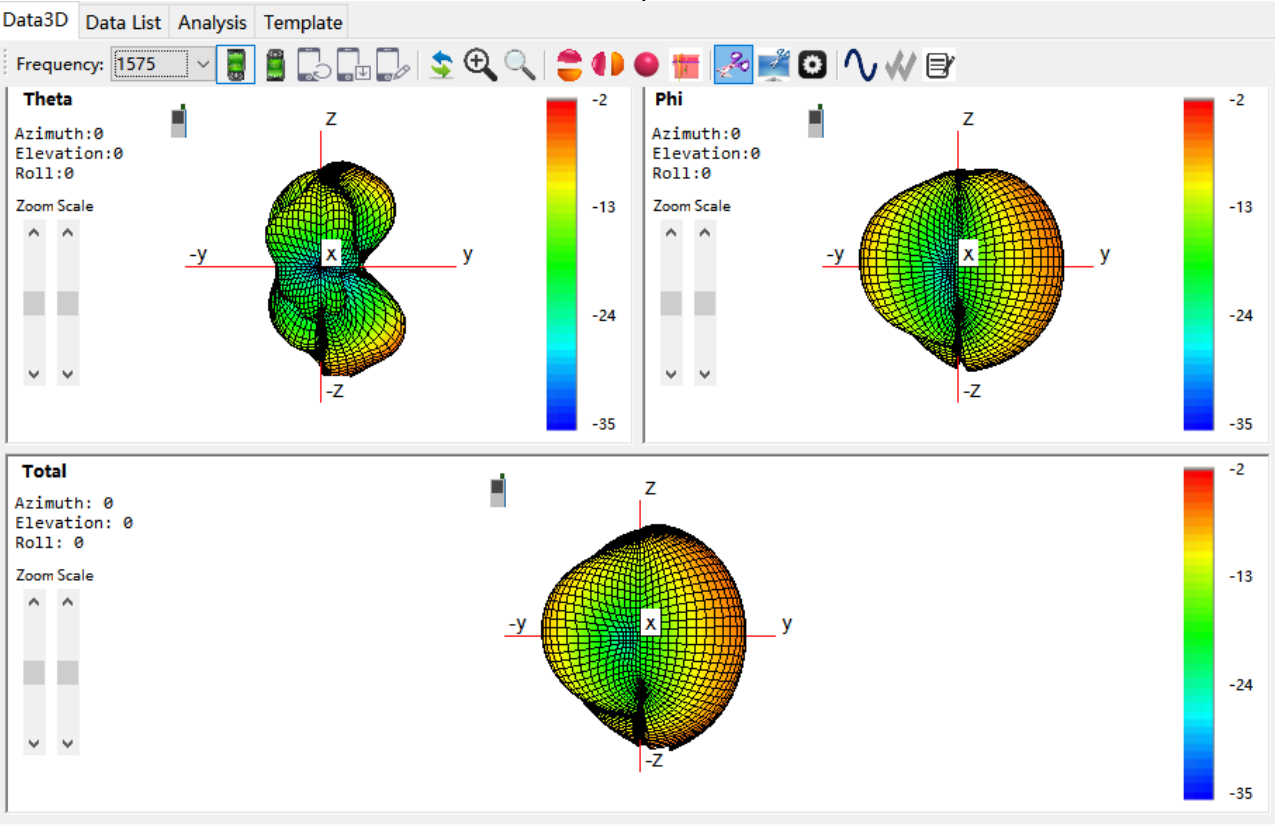


Radiation Pattern For GPS Antenna



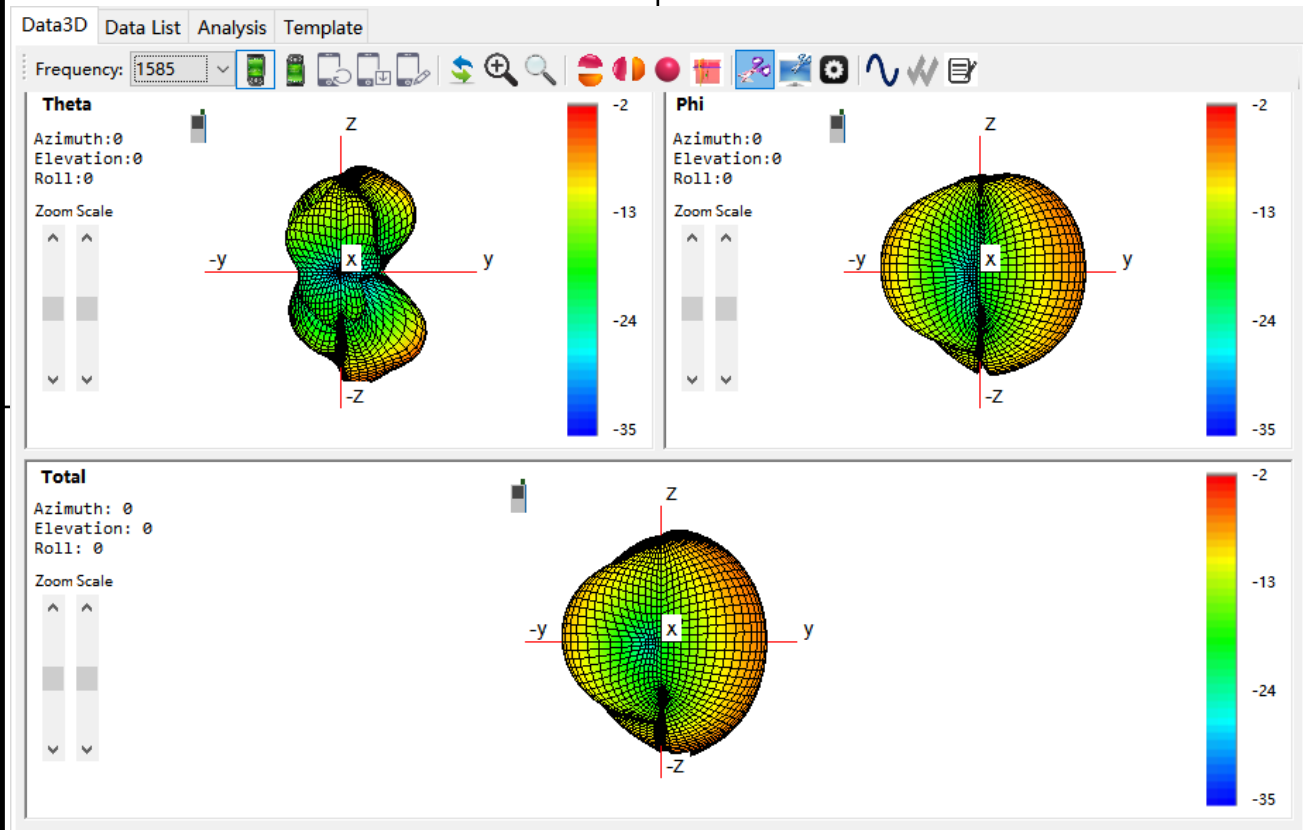


Radiation Pattern For GPS Antenna





Radiation Pattern For GPS Antenna



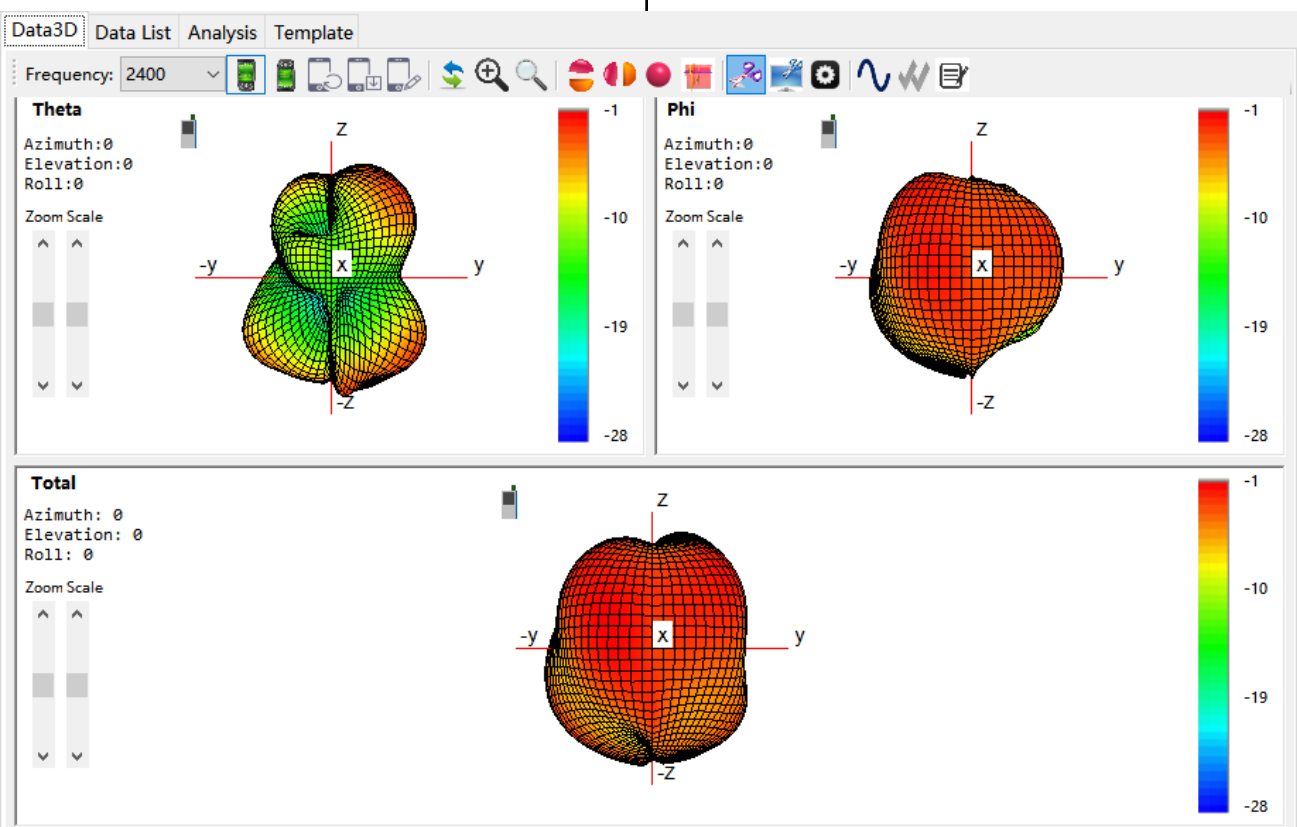


Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	36.1	-4.4	-1.4
2410	35.9	-4.5	-1.3
2420	34.8	-4.6	-1.4
2430	33.8	-4.7	-1.4
2440	32.4	-4.9	-1.4
2450	30.6	-5.1	-1.6
2460	29.3	-5.3	-1.7
2470	28.3	-5.5	-1.7
2480	27.2	-5.7	-1.8
2490	25.7	-5.9	-2.0
2500	24.7	-6.1	-2.0

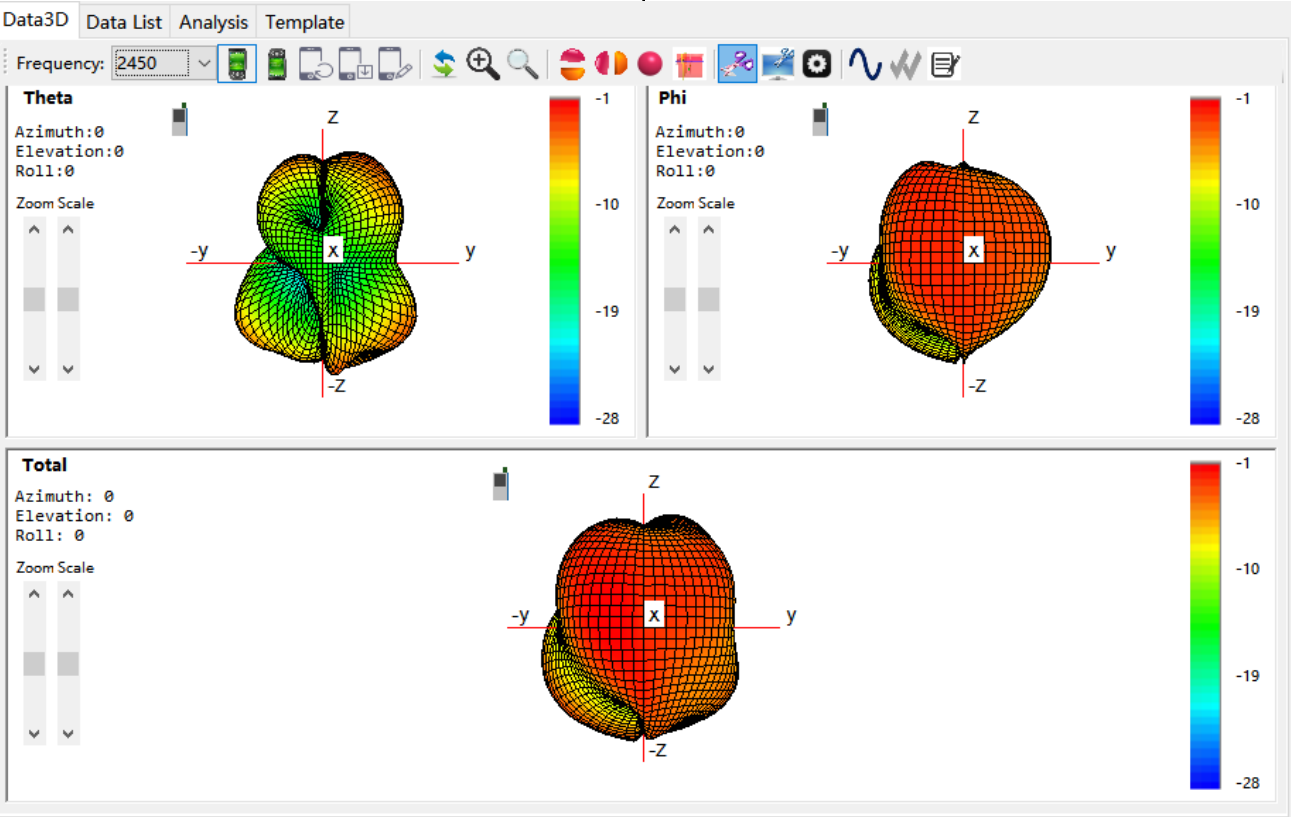


Radiation Pattern For WiFi Antenna(2.4G)



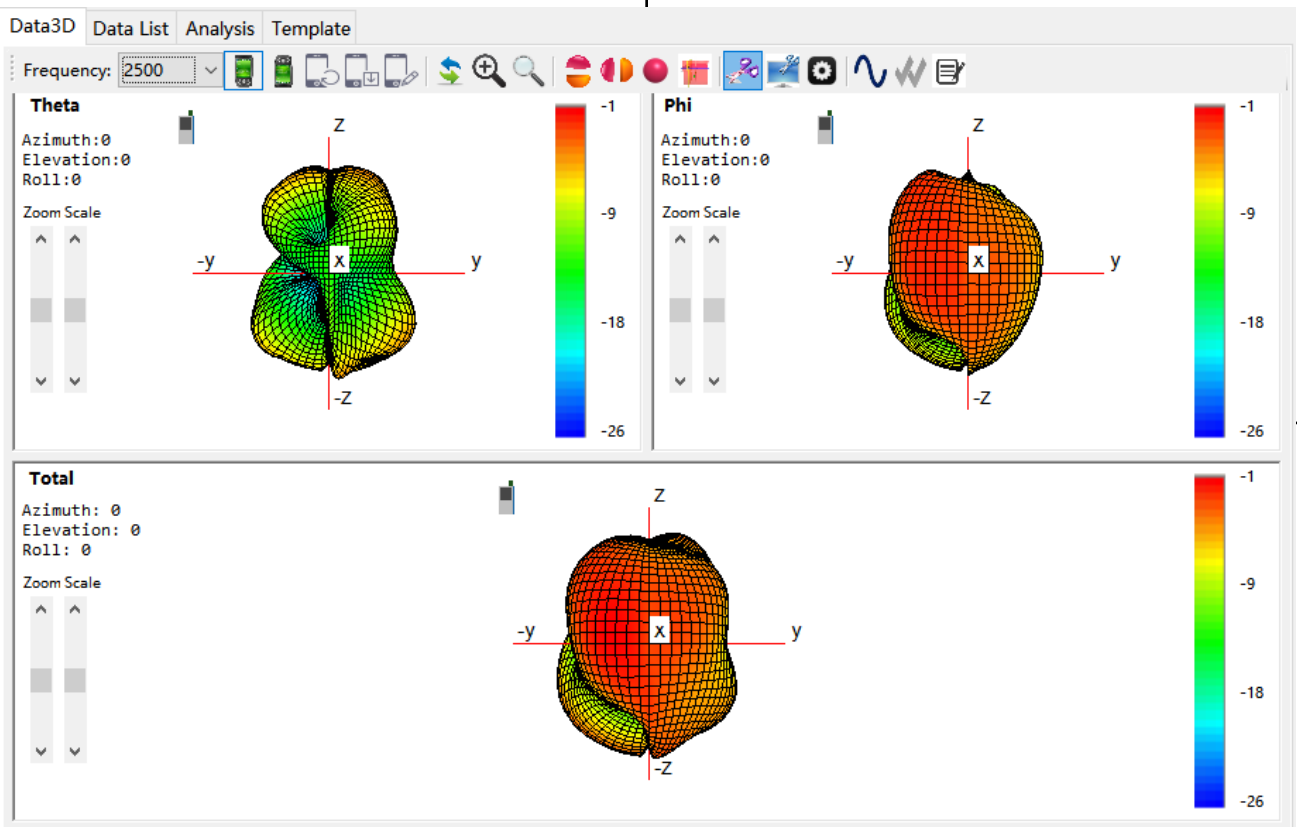


Radiation Pattern For WiFi Antenna(2.4G)





Radiation Pattern For WiFi Antenna(2.4G)



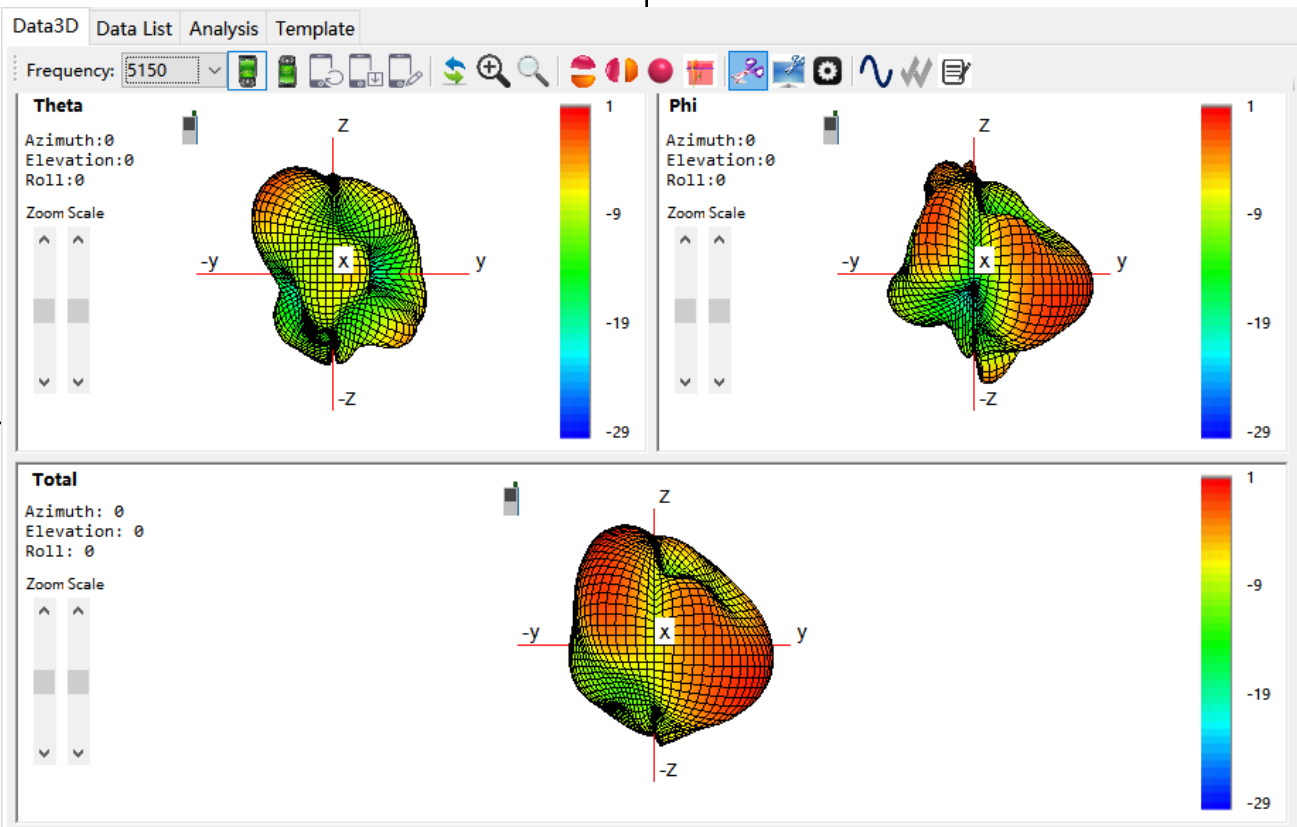


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	34.3	-4.6	0.3
5200	37.2	-4.3	0.7
5250	37.1	-4.3	0.7
5300	36.6	-4.4	0.5
5350	41.1	-3.9	0.9
5400	44.6	-3.5	1.3
5450	48.3	-3.2	1.6
5500	43.7	-3.6	0.9
5550	47.9	-3.2	1.2
5600	50.9	-2.9	1.1
5650	51.1	-2.9	1.1
5700	48.3	-3.2	1.0
5750	45.2	-3.5	0.6
5800	47.0	-3.3	0.8
5850	44.4	-3.5	0.6

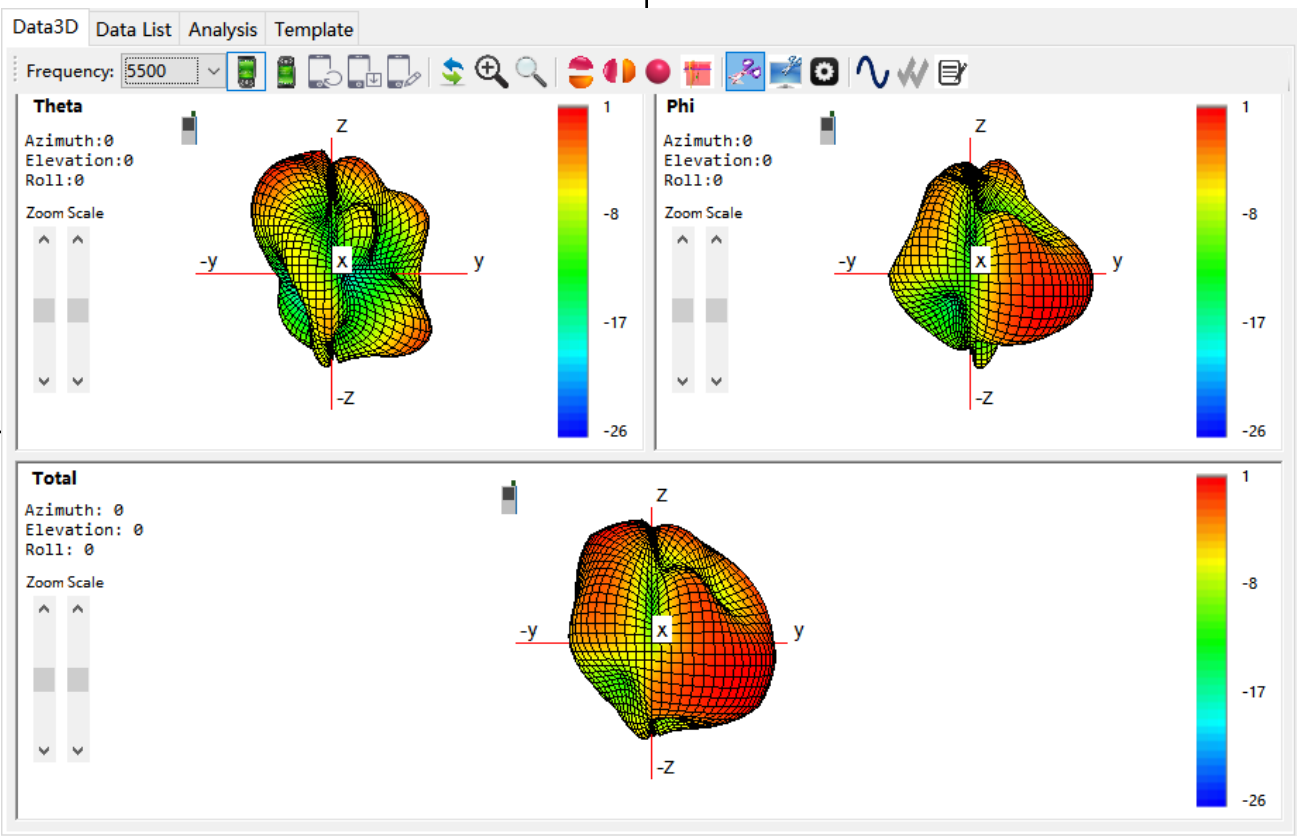


Radiation Pattern For WiFi Antenna(5.8G)





Radiation Pattern For WiFi Antenna(5.8G)





Radiation Pattern For WiFi Antenna(5.8G)

