



Dongguan YiJia Electronics Communication Technology Co.,Ltd.

Antenna specification

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Tester : Liu Tao

Approval : Yin Tao

Date : 2025 / 6/ 30

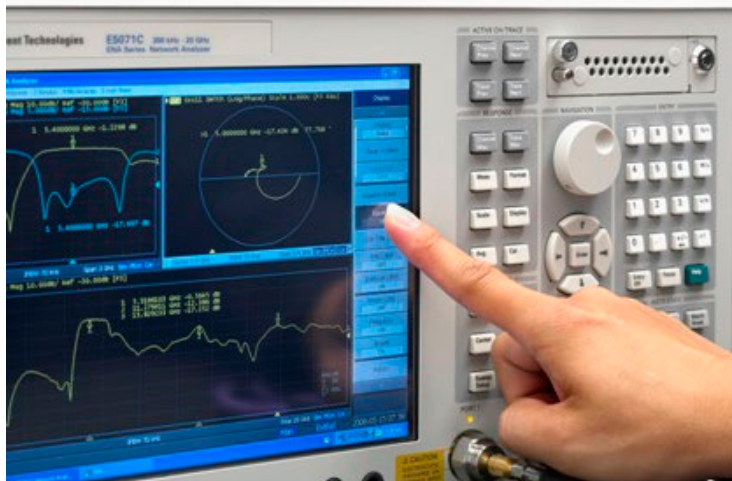


Project name	A920max
Name of antenna	FPC
Antenna form	PIFA
Radiate	Omni-directional
Polarization	Line polarization

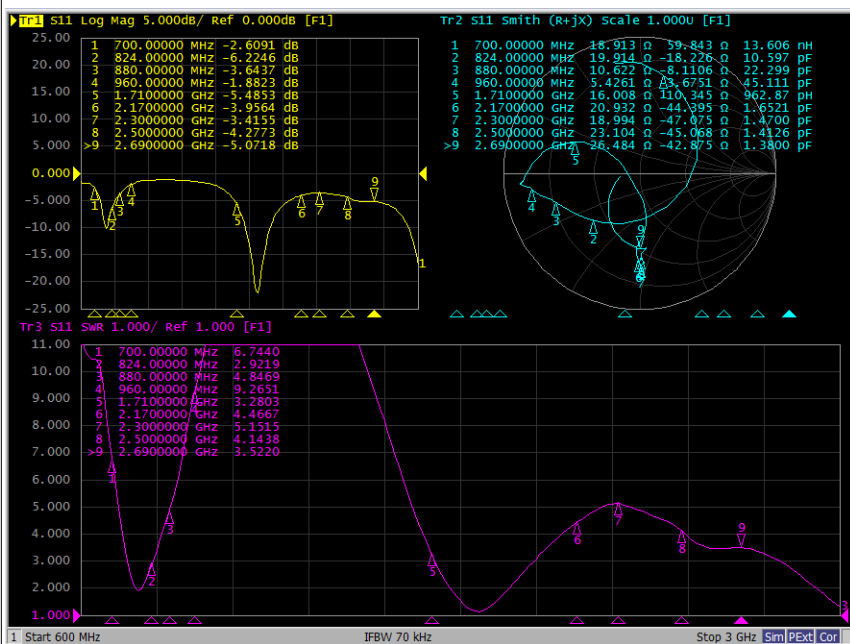


1. LTE Antenna Test

**Agilent
E5071C**



***S11
Parameter
Test //
LTE main
Antenna***





Passive Test For LTE Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	18.69	-7.28	-2.02
710	19.45	-7.11	-1.72
720	19.97	-7	-1.39
730	20.3	-6.92	-1.24
740	20.64	-6.85	-1.04
750	22.24	-6.53	-0.8
760	23.77	-6.24	-0.6
770	25.46	-5.94	-0.56
780	27.13	-5.67	-0.54
790	29.94	-5.24	-0.32
800	28.87	-5.4	-0.21
810	27.94	-5.54	-0.08
820	27.25	-5.65	0.04
830	26.12	-5.83	0.06
840	24.79	-6.06	-0.02
850	23.92	-6.21	-0.05



Passive Test For LTE Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1700	40.19	-3.96	0
1710	43.53	-3.61	0.46
1720	46.5	-3.33	0.75
1730	48.86	-3.11	1
1740	51.82	-2.86	1.27
1750	53.74	-2.7	1.49
1760	54.95	-2.6	1.54
1770	56.38	-2.49	1.67
1780	58.77	-2.31	1.82
1790	59.29	-2.27	1.87
1800	60.28	-2.2	1.94
1810	59.16	-2.28	1.83
1820	59.55	-2.25	1.89
1830	59.53	-2.25	1.82
1840	59.03	-2.29	1.73
1850	57.41	-2.41	1.47
1860	56.86	-2.45	1.21
1870	54.76	-2.62	0.97
1880	54.47	-2.64	0.96
1890	53.89	-2.68	0.91
1900	53.91	-2.68	0.9
1910	53.9	-2.68	0.94
1920	52.25	-2.82	0.87
1930	51.46	-2.89	0.81

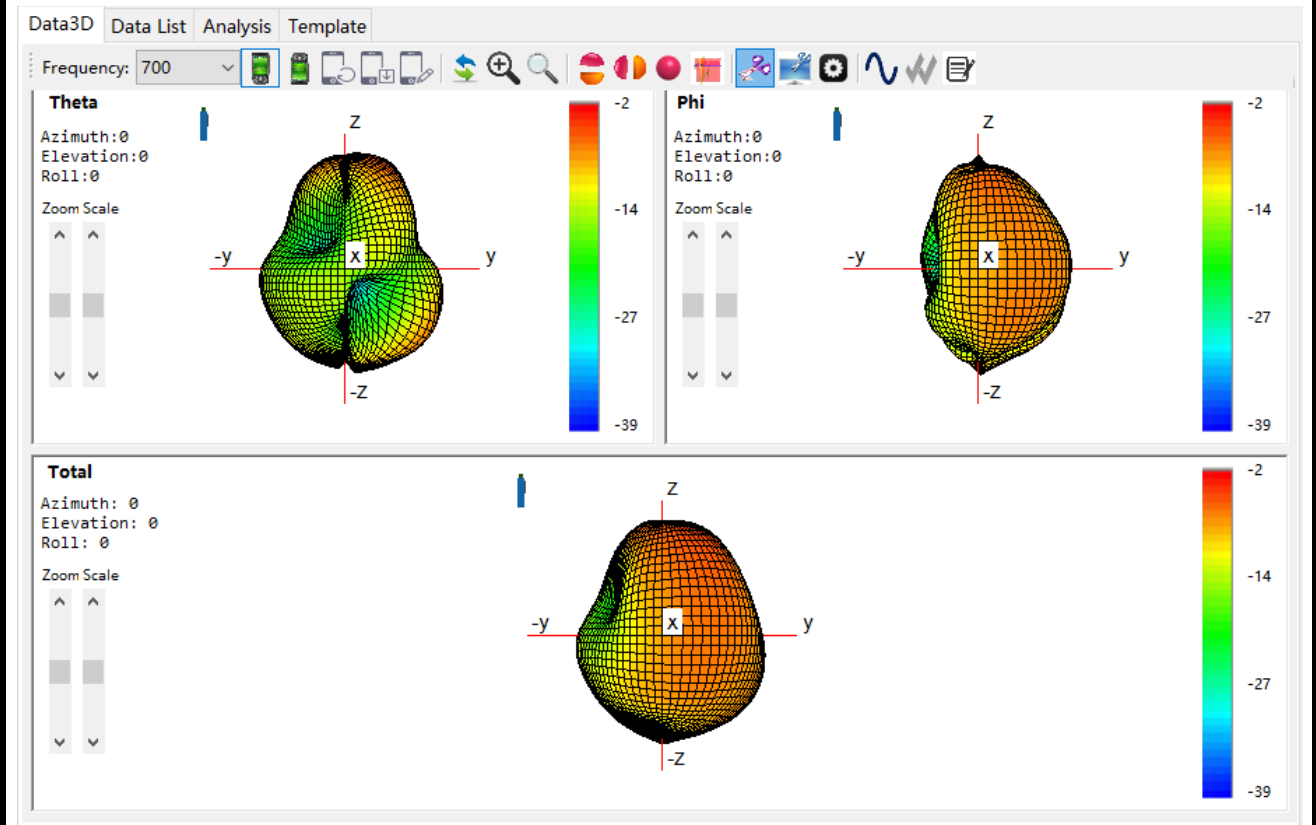


Passive Test For LTE Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1940	50.82	-2.94	0.83
1950	48.55	-3.14	0.69
1960	47.16	-3.26	0.56
1970	45.94	-3.38	0.45
1980	43.76	-3.59	0.2
1990	42.97	-3.67	0.07
2000	41.09	-3.86	-0.16
2010	38.78	-4.11	-0.39
2020	37.72	-4.23	-0.5
2030	36.3	-4.4	-0.52
2040	35.49	-4.5	-0.48
2050	34.48	-4.62	-0.41
2060	33	-4.82	-0.54
2070	32.7	-4.85	-0.46
2080	31.97	-4.95	-0.48
2090	31	-5.09	-0.53
2100	30.86	-5.11	-0.39
2110	29.51	-5.3	-0.52
2120	28.59	-5.44	-0.55
2130	28.29	-5.48	-0.56
2140	27.92	-5.54	-0.57
2150	27.53	-5.6	-0.56
2160	26.09	-5.84	-0.83
2170	25.47	-5.94	-0.92

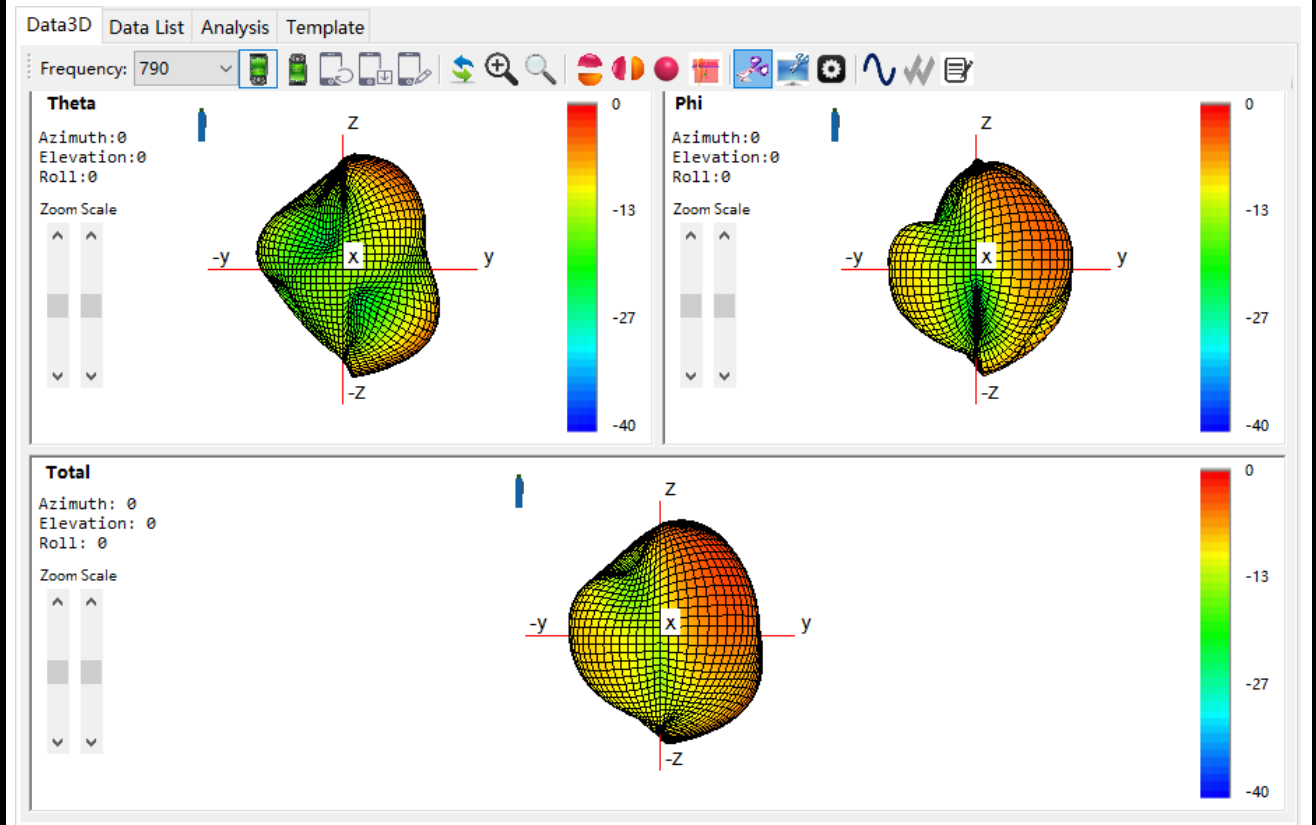


LTE Antenna Radiation Pattern For



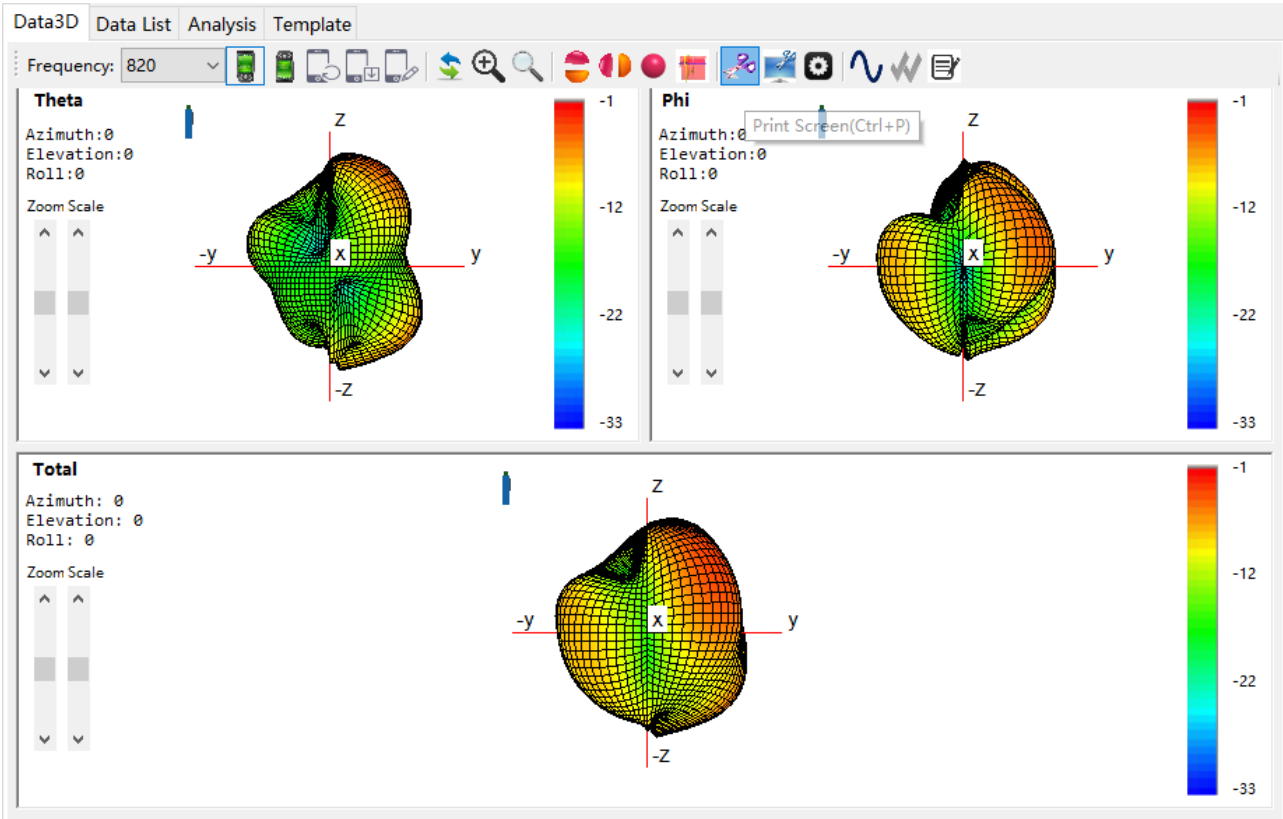


LTE Antenna Radiation Pattern For



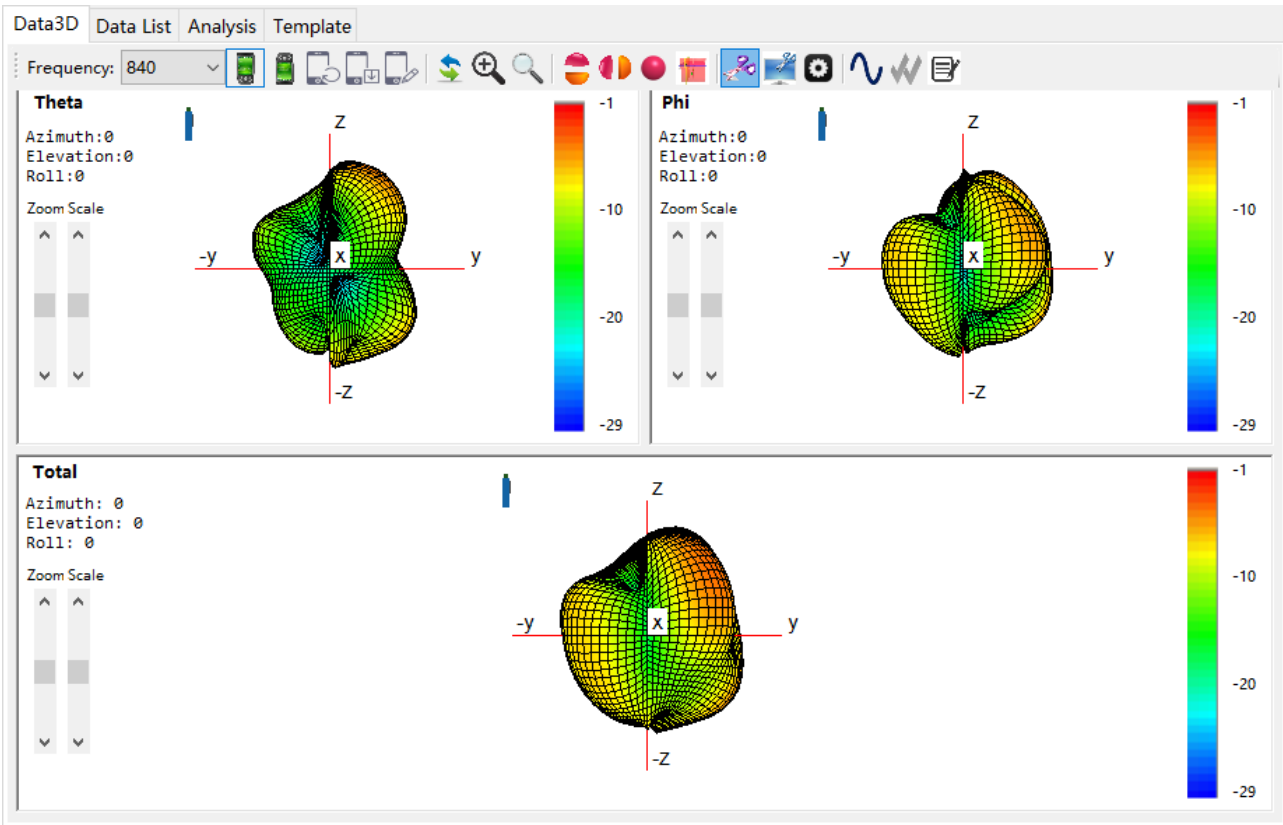


LTE Antenna Radiation Pattern For



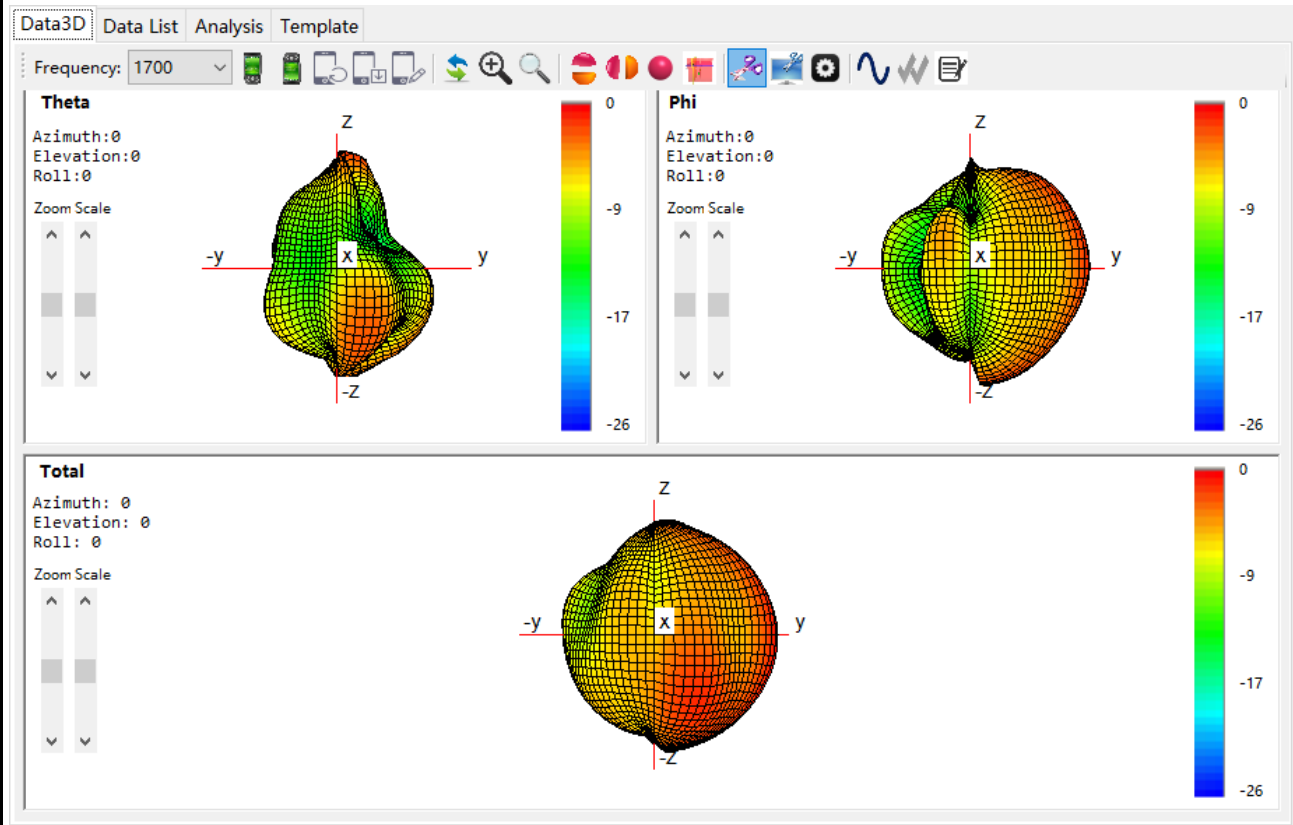


LTE Antenna Radiation Pattern For



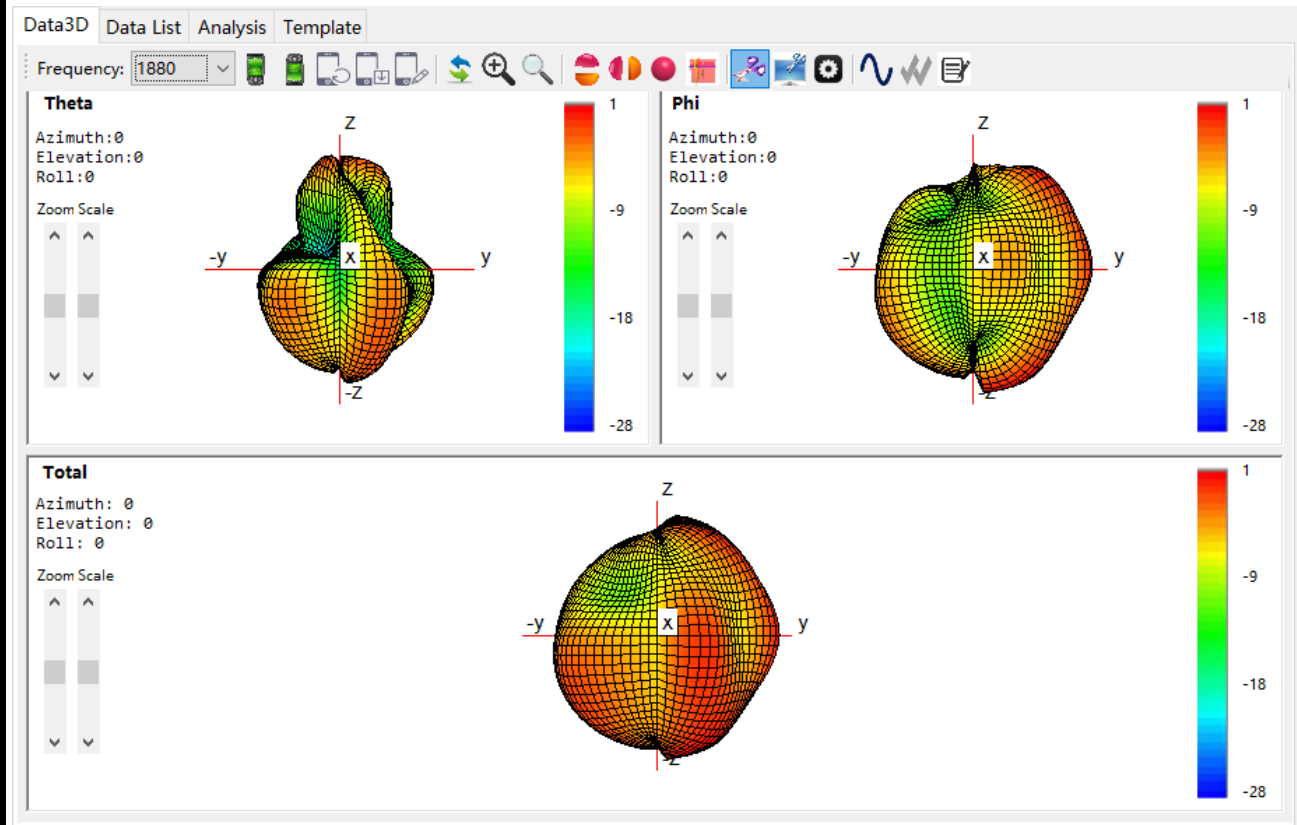


LTE Antenna Radiation Pattern For



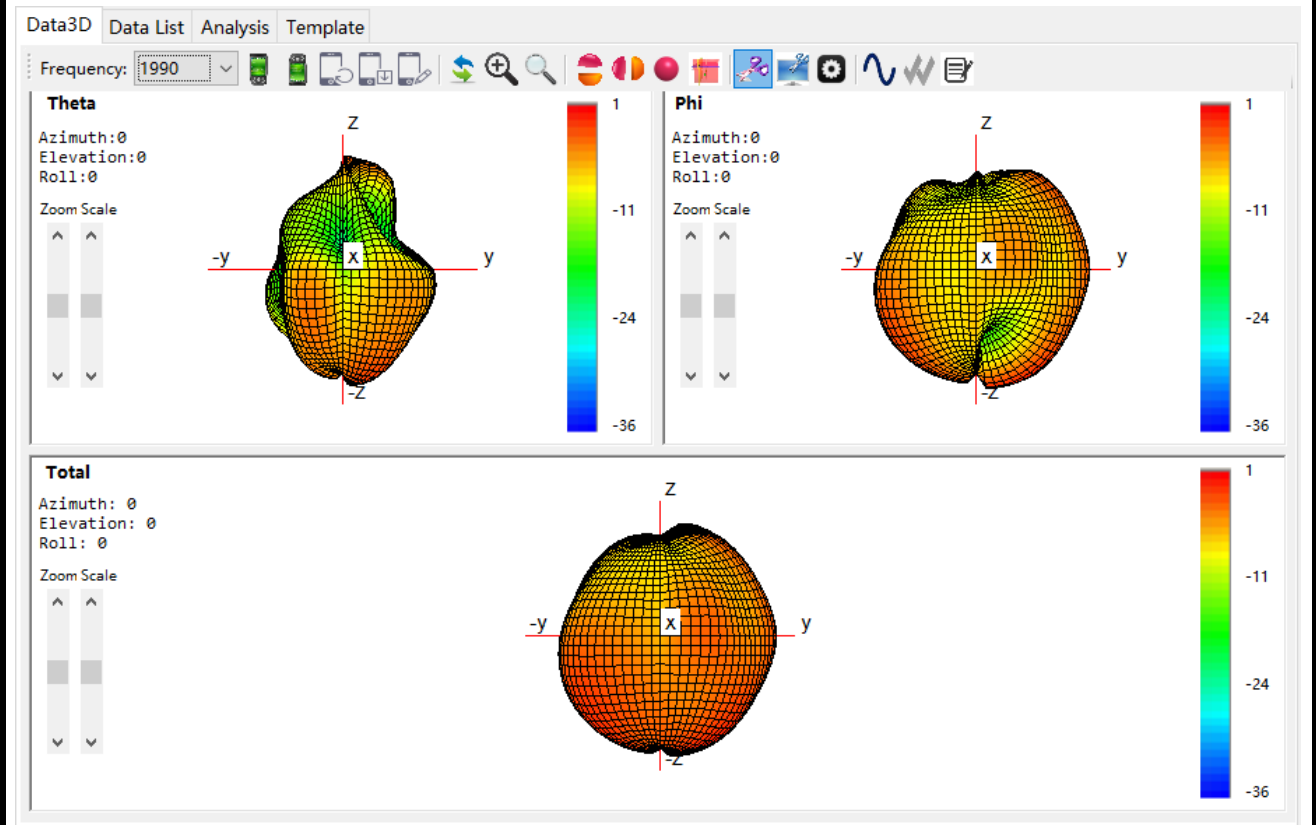


LTE Antenna Radiation Pattern For



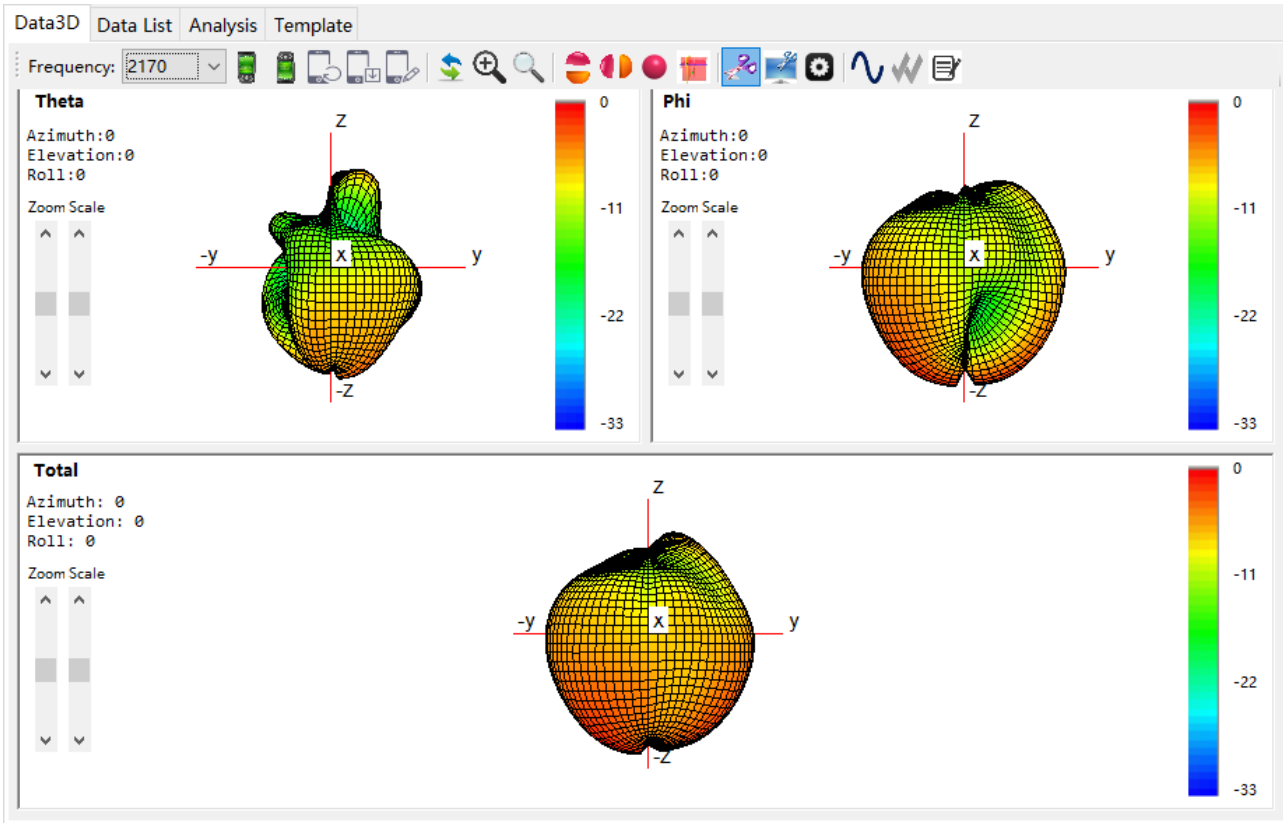


LTE Antenna Radiation Pattern For





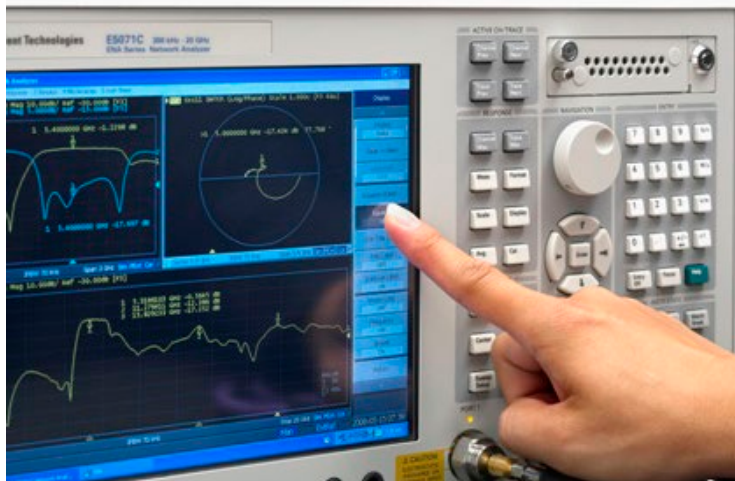
LTE Antenna Radiation Pattern For



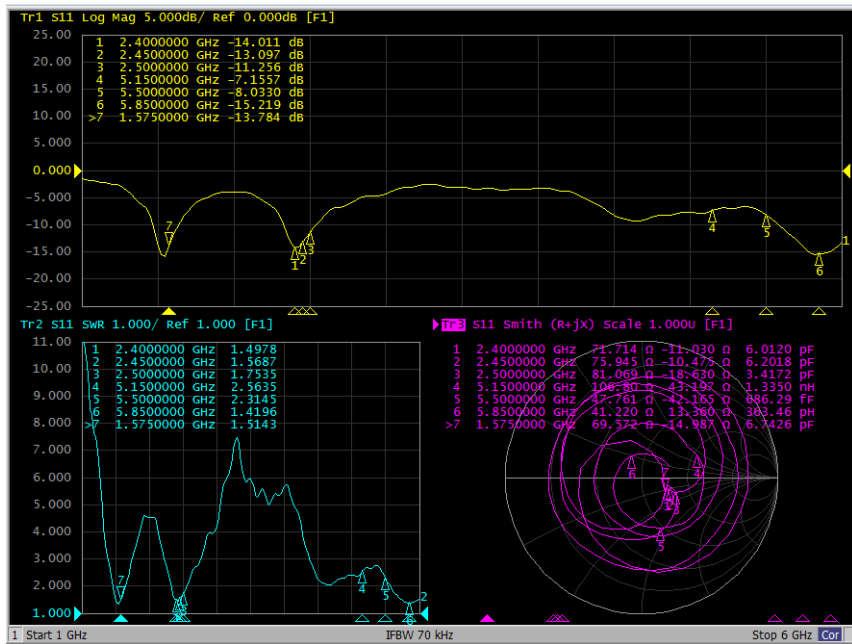


2. *WiFi Antenna Test*

*Agilent
E5071C*



*S11
Parameter
Test //
WiFi/GPS
Antenna*



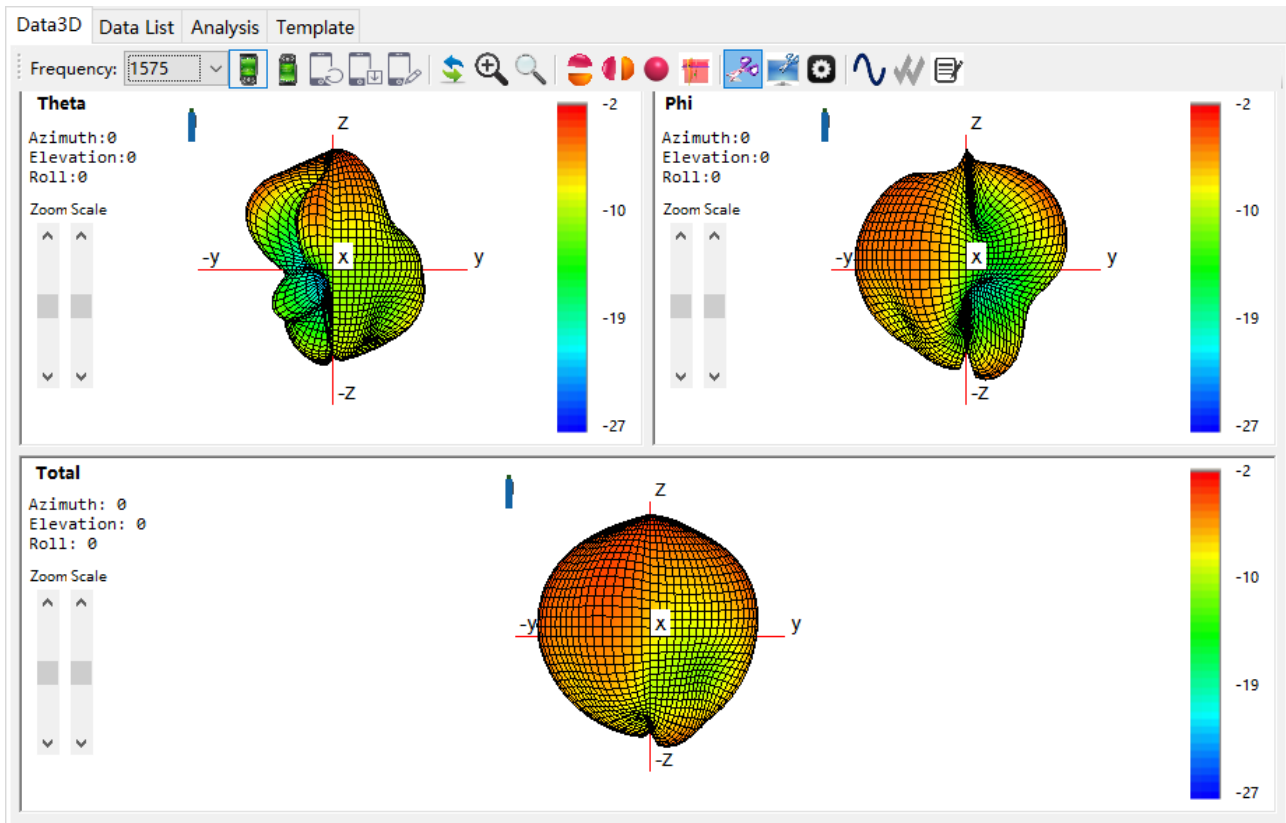


Passive Test For GPS Antenna(1.575G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1550	31.68	-4.99	-1.39
1555	33.96	-4.69	-1.56
1560	33.12	-4.8	-1.63
1565	33.03	-4.81	-1.77
1570	30.3	-5.19	-1.98
1575	27.56	-5.6	-2.14
1580	26.48	-5.77	-2.36
1585	24.9	-6.04	-2.7
1590	26.99	-5.69	-2.98
1595	26.61	-5.75	-3.15
1600	26.07	-5.84	-3.05



Radiation Pattern For GPS Antenna(1575MHz)



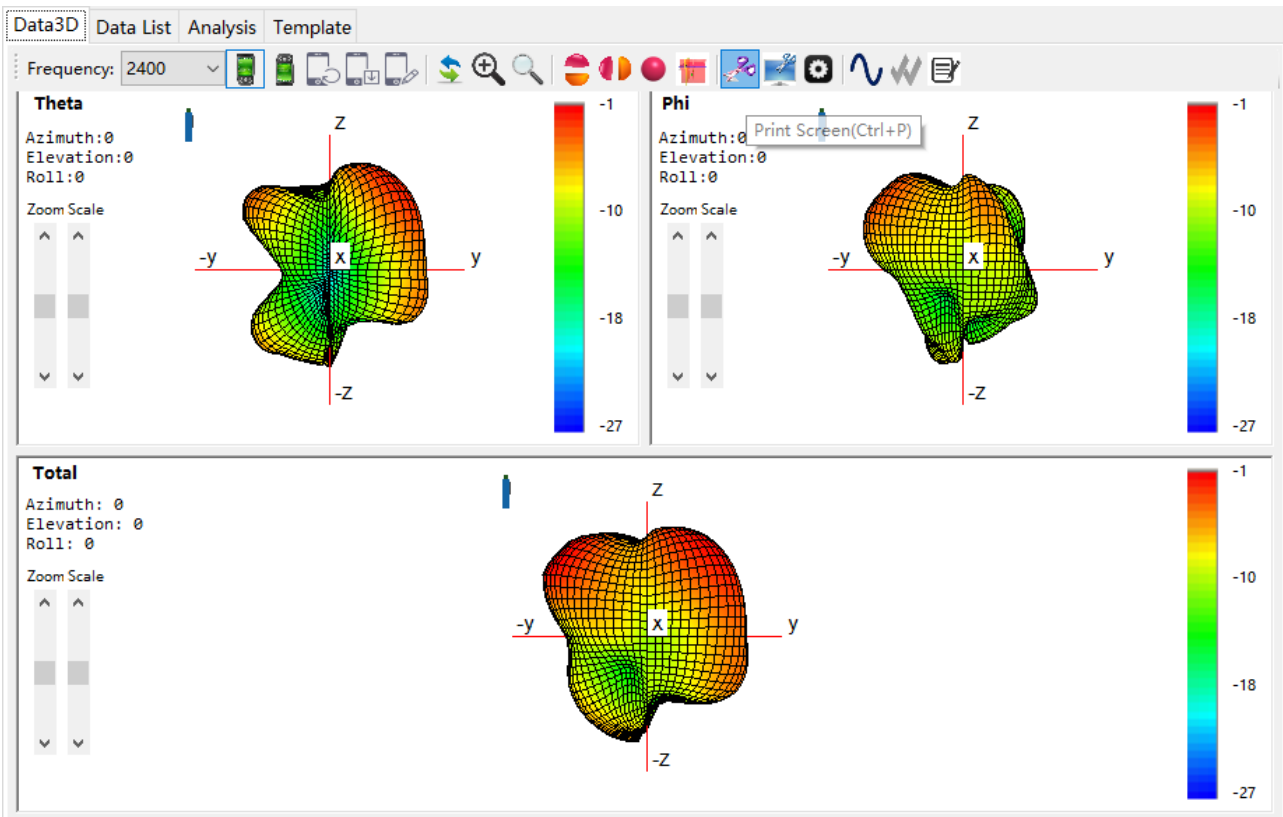


Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	29	-5.38	-2.11
2410	29.91	-5.24	-1.9
2420	30.12	-5.21	-1.75
2430	30.28	-5.19	-1.75
2440	30.49	-5.16	-1.6
2450	29.89	-5.24	-1.66
2460	30.02	-5.23	-1.57
2470	30.52	-5.15	-1.37
2480	30.62	-5.14	-1.26
2490	30.8	-5.11	-1.19
2500	30.9	-5.1	-1.12

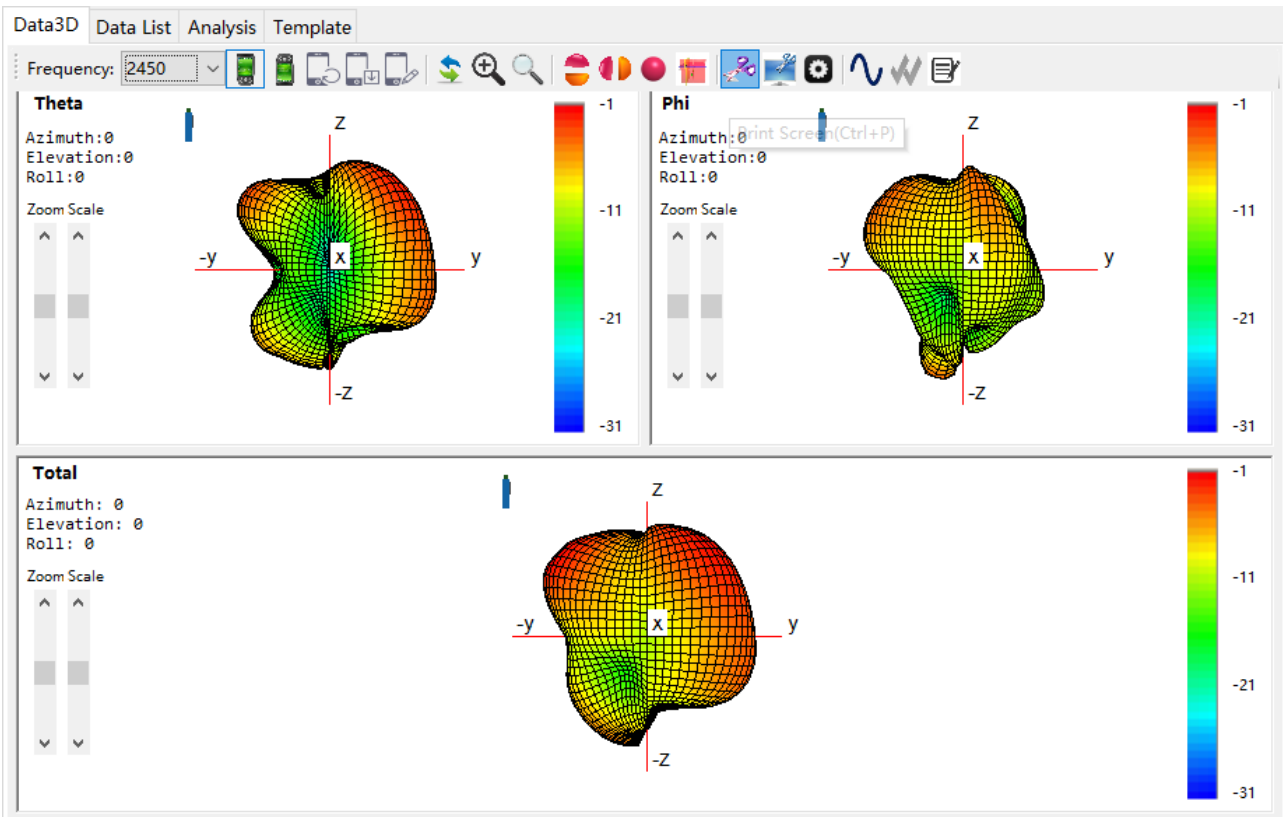


Radiation Pattern For WiFi Antenna(2400MHz)



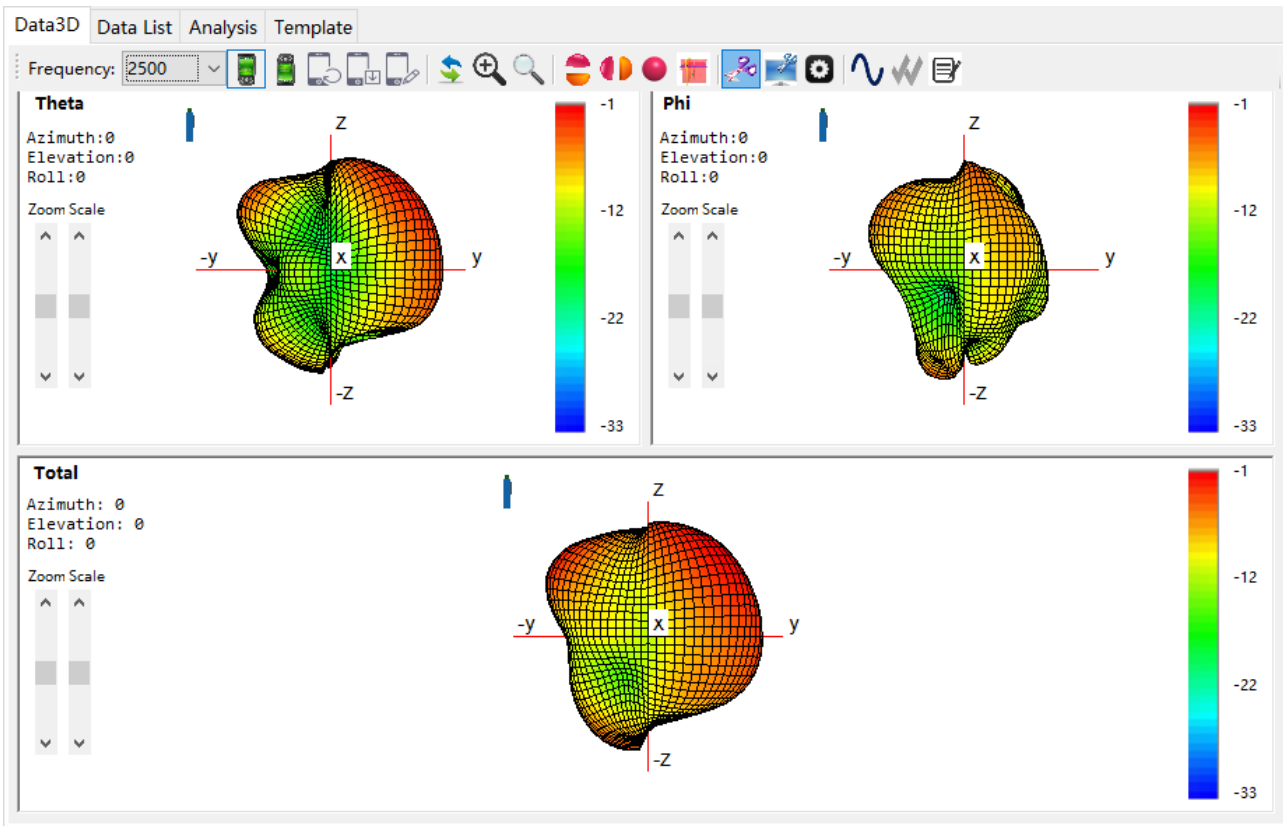


Radiation Pattern For WiFi Antenna(2450MHz)





Radiation Pattern For WiFi Antenna(2500MHz)



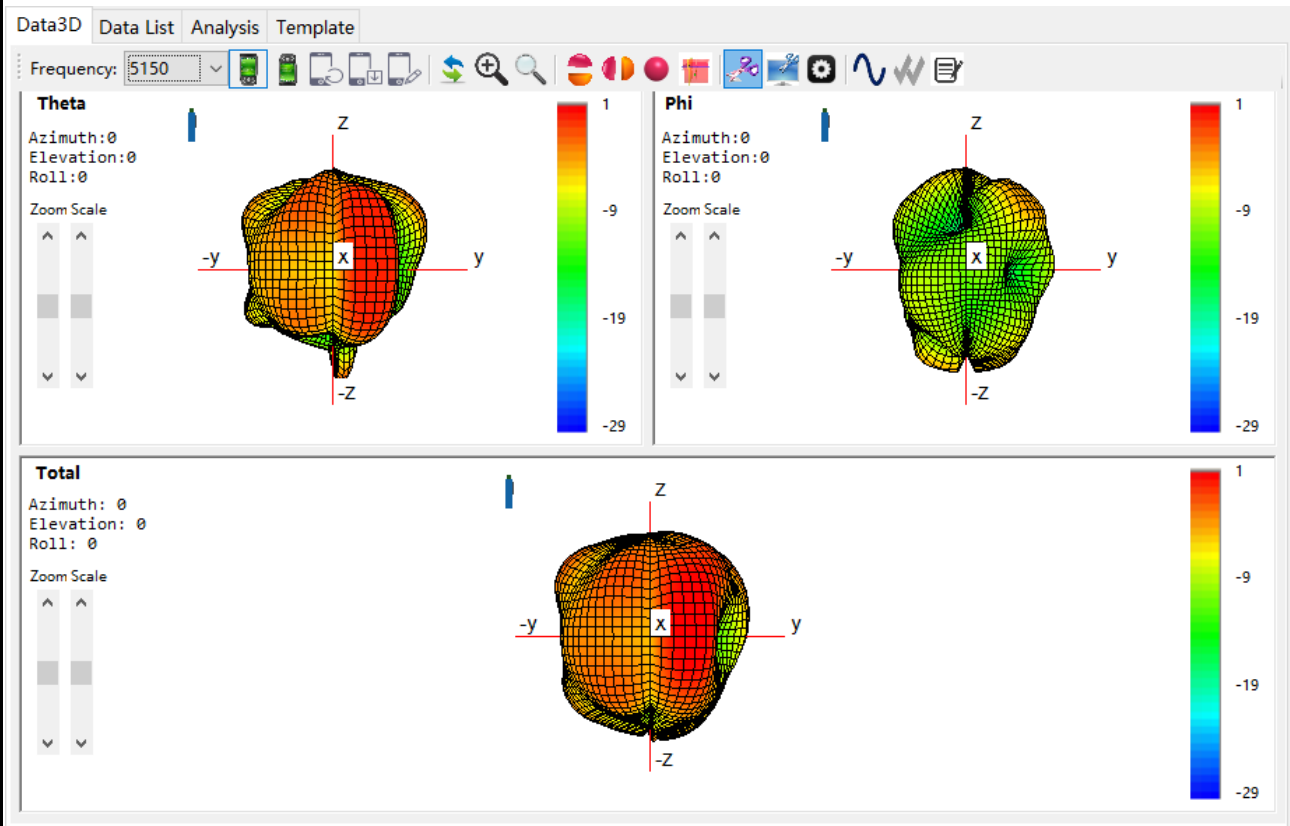


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	33.5	-4.75	0.57
5180	34.36	-4.64	0.84
5210	33.46	-4.75	0.81
5240	33.33	-4.77	0.95
5270	32.09	-4.94	1.08
5300	27.9	-5.54	0.84
5330	30.54	-5.15	1.49
5360	27.56	-5.6	1.07
5390	30.82	-5.11	1.51
5420	29.63	-5.28	1.21
5450	28.3	-5.48	0.8
5480	27.7	-5.58	0.54
5510	23.97	-6.2	-0.15
5540	25.58	-5.92	0.06
5570	25.22	-5.98	-0.08
5600	27.87	-5.55	0.29
5630	27.7	-5.57	0.04
5660	28.4	-5.47	-0.09
5690	27.77	-5.56	-0.46
5720	26.09	-5.84	-0.98
5750	26.89	-5.7	-0.84
5780	26.25	-5.81	-1.05
5810	29.36	-5.32	-0.69
5840	29.56	-5.29	-0.86
5850	29.18	-5.35	-0.94

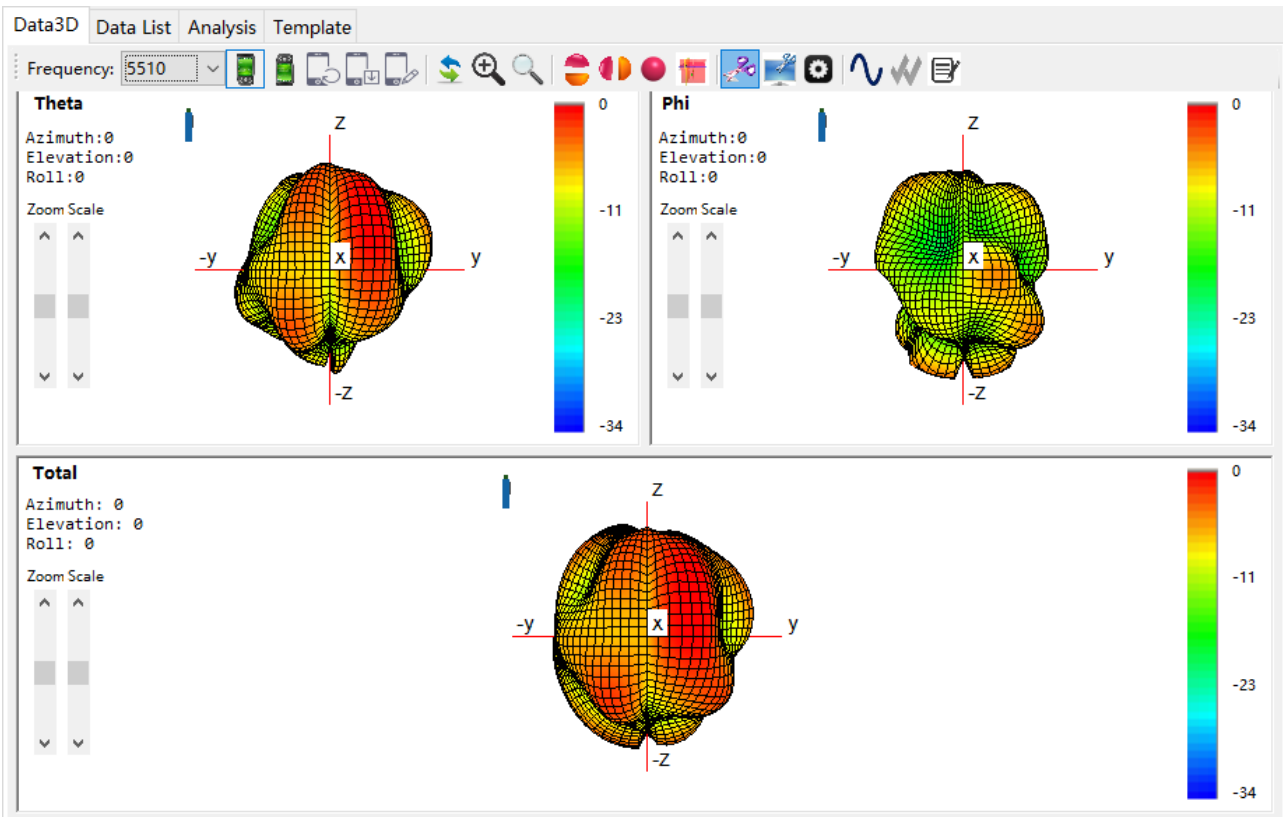


Radiation Pattern For WiFi Antenna(5150MHz)



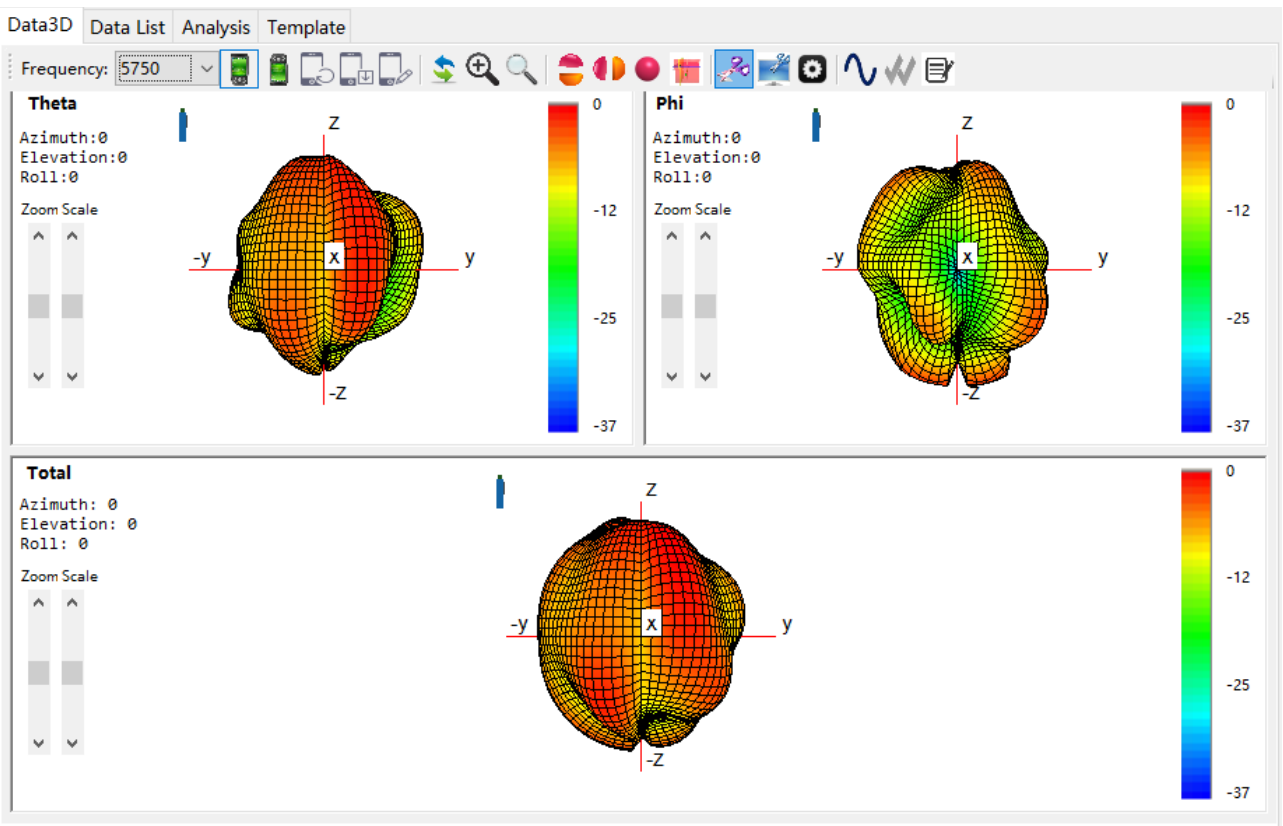


Radiation Pattern For WiFi Antenna(5510MHz)





Radiation Pattern For WiFi Antenna(5750MHz)





Radiation Pattern For WiFi Antenna(5850MHz)

