

Antenna Specifications

Project: Lemu T19-62PVF

Model No.: T19-62PVF

Antenna Type: PIFA ANT&LDS ANT

Software version:

MH2623WBA58.XWP.HB.Q0.HP.230911.V0.01.RF222

Test date: 2024.5.24

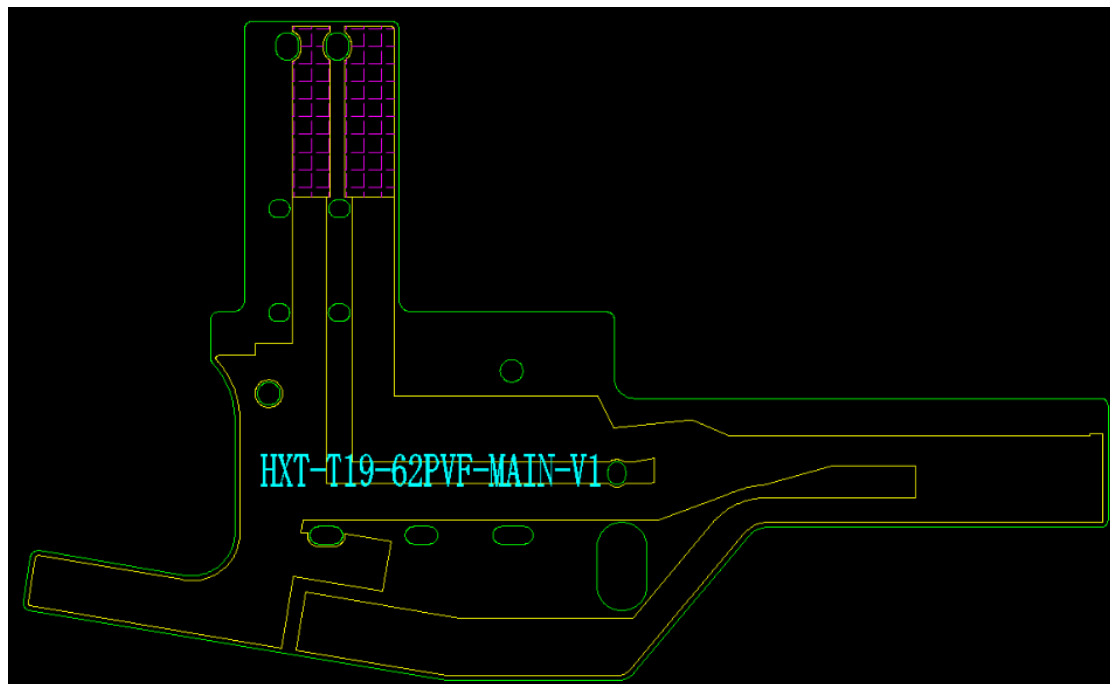
Manufacturer:

FAMOCO SAS

Address: 59 avenue Victor Hugo, 75116 Paris, France

Main Antenna Frequency Band

Frequency Band	Tx(MHz)/Rx(MHz)
G900/LTE-12/13/17/28	690~960
W4/LTE-2/3/4/7	1710~2690



G/W/B Antenna Frequency Band

Frequency Band	Tx(MHz)/Rx(MHz)
WiFi 2.4G/BT	2400~2480
WiFi 5G	5100~5800
GPS	1575.42

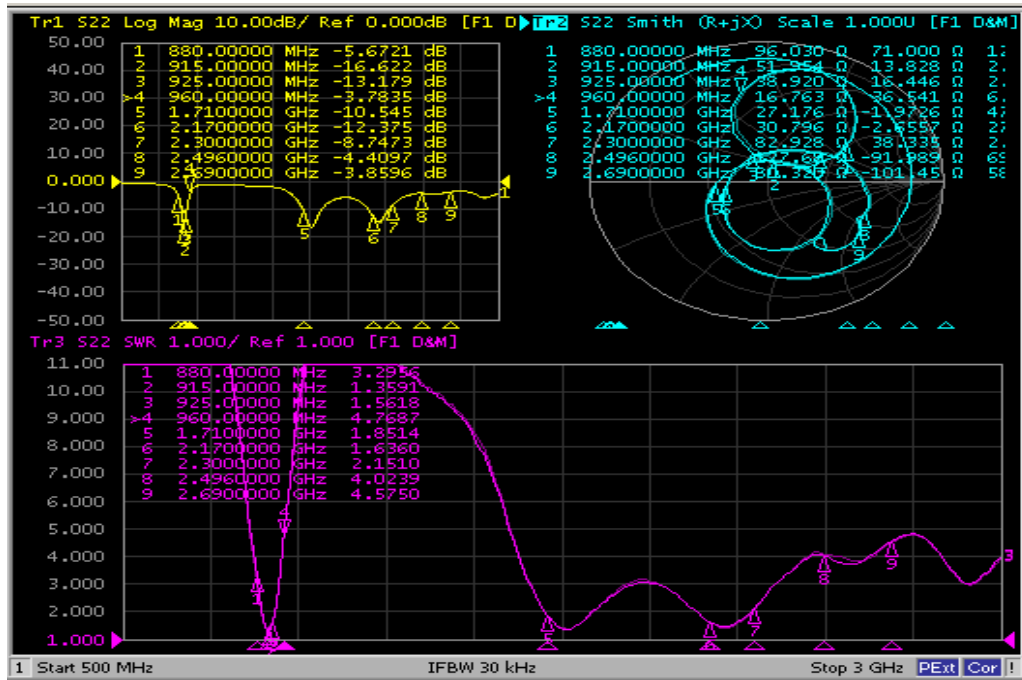


Test data

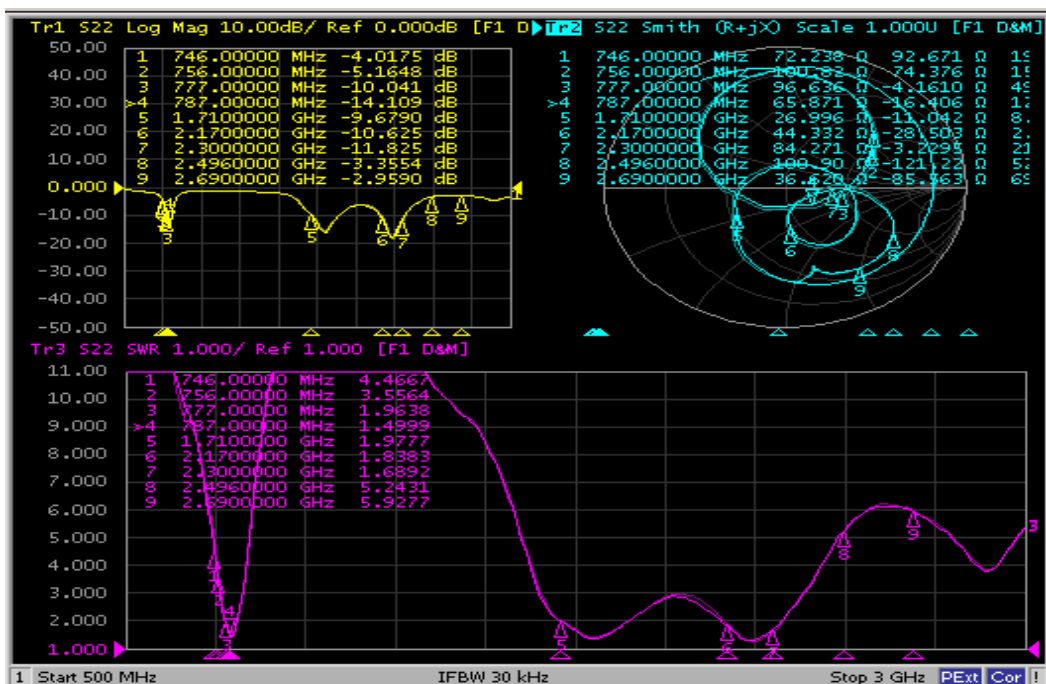
RF1	(MHz)	880	890	900	910	920	930	940	950	960
	Gain (Ave) (dB)	-8.9	-7.9	-7.38	-6.77	-5.51	-5.46	-6.7	-7.47	-8.49
	Peak Gain (dBi)	-5.19	-4.25	-3.81	-3.16	-2.9	-3	-3.22	-3.96	-5
	Effi (%)	12.89	16.2	18.29	21.06	22.36	22.57	21.36	17.89	14.16

RF1	(MHz)	1700	1720	1740	1760	1780	1800	1820	1840	1860	1880	1900	1920	1940	1960	1980	2000	2020	2040	2060	2080	2100	2120	2140	2160	2180
	Gain (Ave) (dB)	-3.36	-3.12	-2.72	-2.66	-2.81	-3.02	-3.34	-3.62	-3.96	-4.46	-4.42	-4.58	-4.62	-4.88	-5.03	-5	-5.08	-5.03	-4.8	-4.67	-4.64	-4.48	-4.23	-3.9	-3.77
	Peak Gain (dBi)	0.34	0.46	0.83	0.54	0.32	-0.06	-0.4	-0.49	-0.64	-0.87	-0.95	-1.2	-1.34	-1.97	-2.2	-1.86	-1.79	-1.7	-1.33	-1.11	-1.45	-1.34	-0.88	-0.28	0.16
	Effi (%)	46.15	48.75	53.46	54.16	52.42	49.89	46.32	43.49	40.14	35.81	36.14	34.87	34.46	32.47	31.39	31.62	31.02	31.43	33.11	34.14	34.38	35.62	37.77	40.72	41.96

RF1	(MHz)	2300	2320	2340	2360	2380	2400	2420	2440	2460	2480	2500	2520	2540	2560	2580	2600	2620	2640	2660	2680	2700
	Gain (Ave) (dB)	-4.42	-4.64	-4.68	-4.83	-5.3	-5.78	-6.13	-6.33	-6.48	-6.49	-6.17	-6.27	-6.42	-6.38	-6.07	-5.97	-5.85	-6.04	-6.41	-6.72	-6.77
	Peak Gain (dBi)	1.1	0.7	0.67	0.57	0.11	-0.59	-1.3	-1.97	-2.47	-2.69	-2.69	-3.28	-3.81	-3.37	-2.76	-2.36	-1.82	-1.81	-2.11	-2.34	-2.32
	Effi (%)	36.14	34.34	34.07	32.9	29.51	26.42	24.39	23.29	22.48	22.42	24.15	23.63	22.82	23	24.7	25.31	25.99	24.9	22.83	21.26	21.03

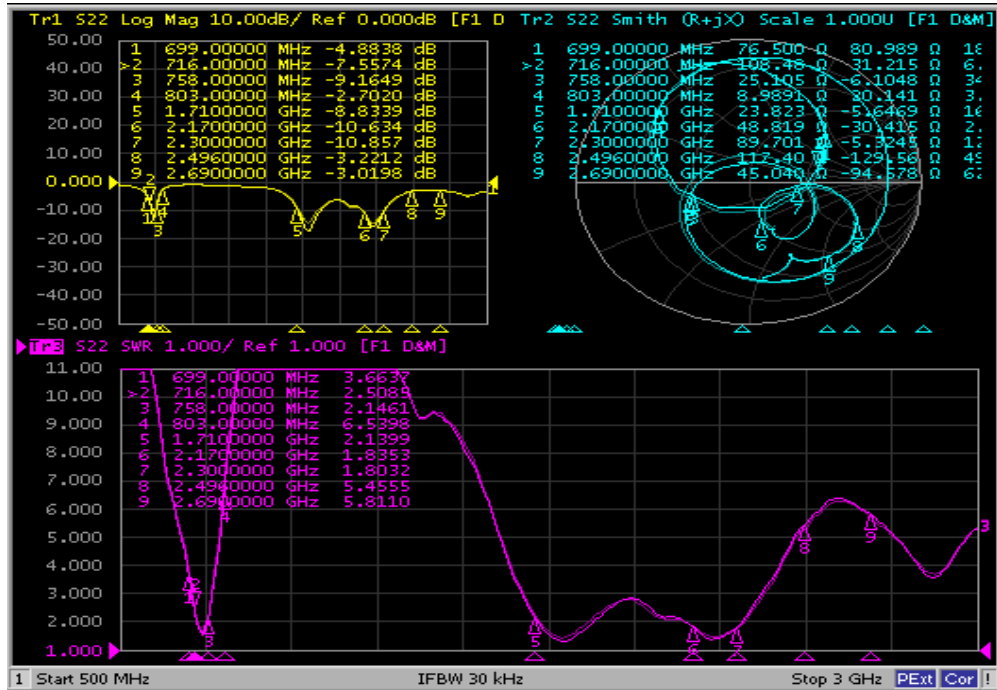


RF2	(MHz)	750	760	770	780	790
	Gain (Ave) (dB)	-13.53	-12.84	-11.56	-10.46	-9.66
	Peak Gain (dBi)	-10.25	-8.98	-7.4	-6.19	-5.57
	Effi (%)	4.44	5.2	6.98	9	10.82

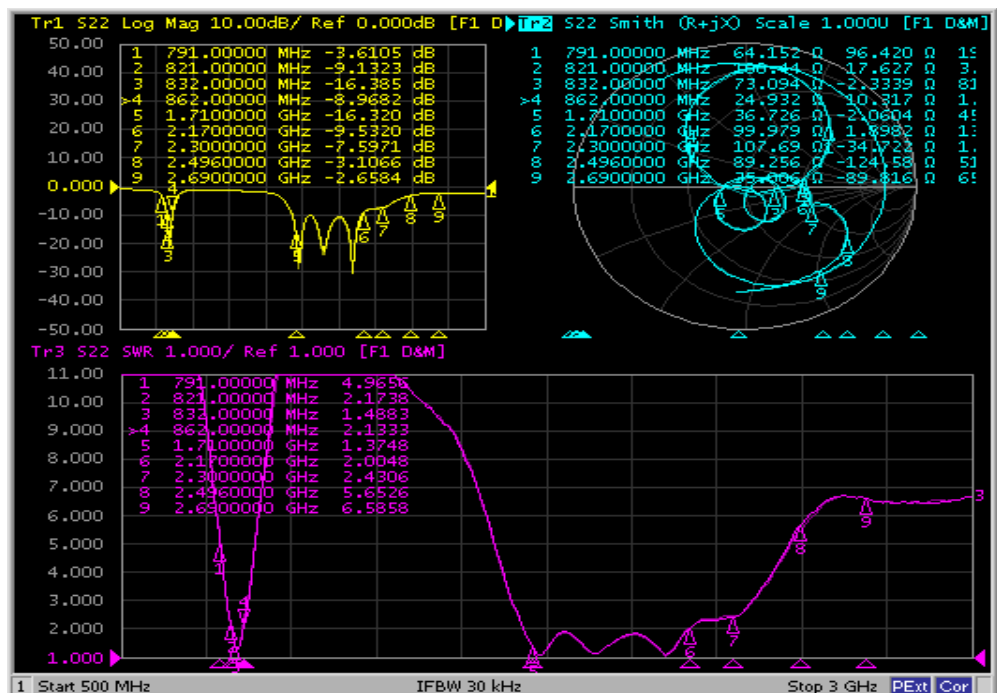


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RF3	(MHz)		700	710	720	730	740	750	760	770	780	790	800
	Gain (Ave)	(dB)	-8.99	-8.83	-8.99	-9.82	-10.82	-11.37	-11.79	-12.04	-12.28	-12.55	-12.57
	Peak Gain	(dBi)	-6.19	-5.87	-6.25	-6.91	-7.75	-8.22	-8.09	-8.06	-8.27	-8.65	-8.66
	Effi	(%)	12.63	13.08	12.61	10.43	8.28	7.3	6.63	6.24	5.92	5.56	5.53



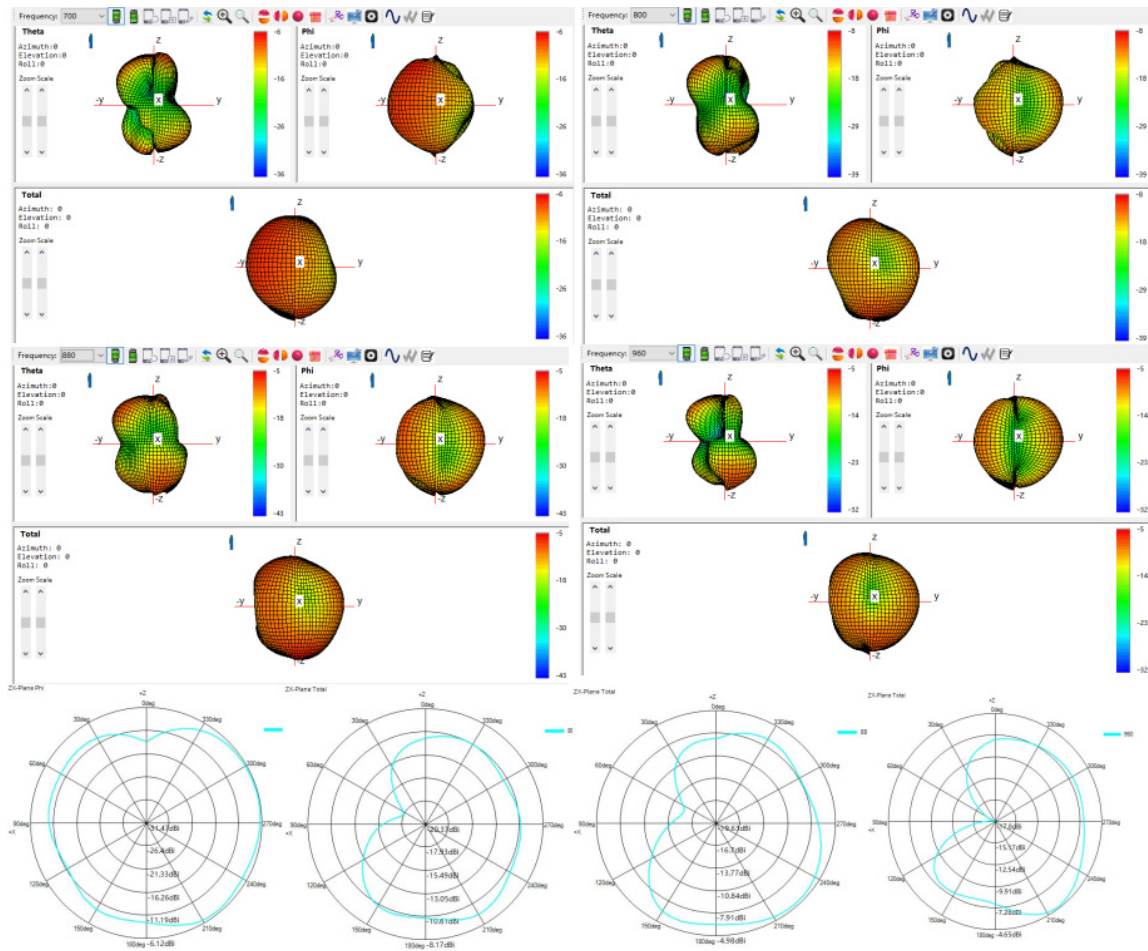
RF4	(MHz)		790	800	810	820	830	840	850	860
	Gain (Ave)	(dB)	-12.82	-11.08	-9.53	-8.6	-7.63	-7.16	-7.07	-7.66
	Peak Gain	(dBi)	-9.13	-7.48	-5.98	-4.95	-3.91	-3.26	-3.11	-3.77
	Effi	(%)	5.22	7.8	11.14	13.81	17.26	19.21	19.64	17.14



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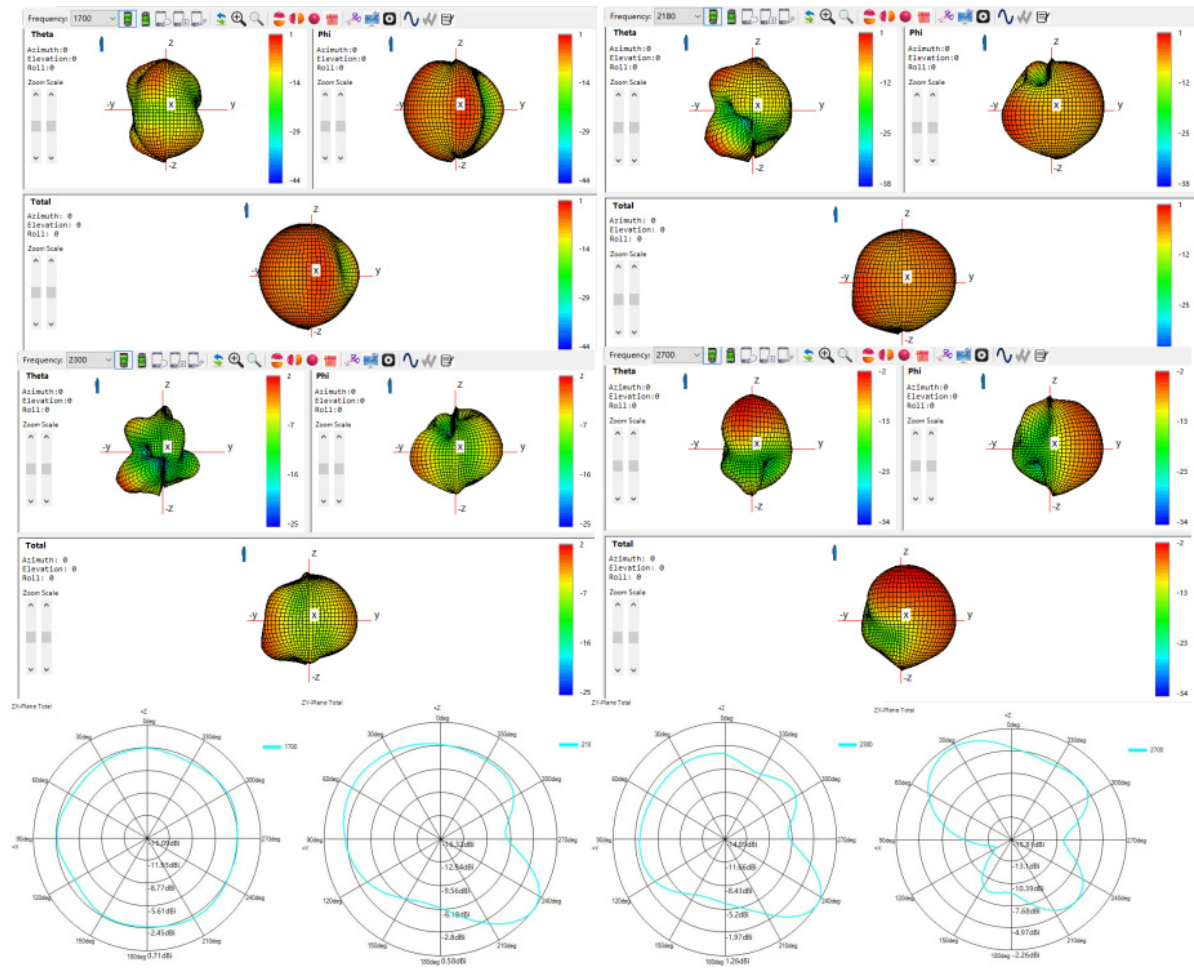
Band	Frequency (MHz)	Efficiency (%)	Average Gain	Peak Gain (dBi)
WiFi2.4G/BT	2400~2480	45	-2.77	2.41
WiFi5G	5180~5800	30	-4.81	1.14
GPS	1575.42	42.6	-3.71	0.63

698~960MHZ 3D and 2D Radiation Pattern:



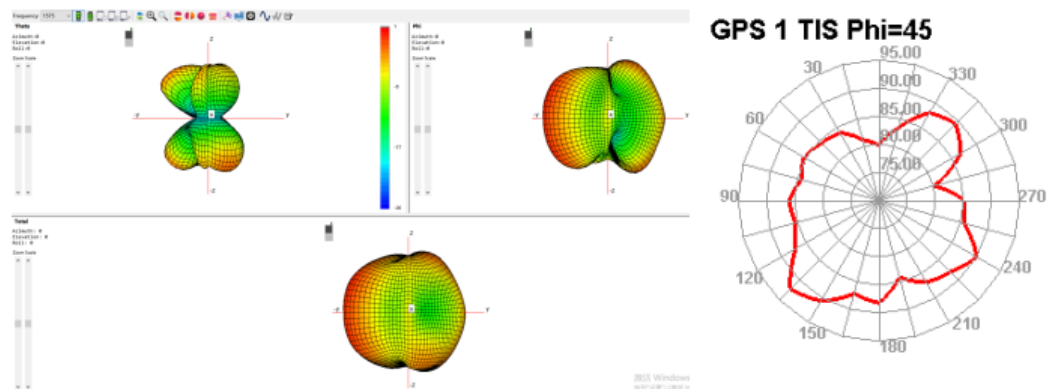
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1700~2700MHZ 3D and 2D Radiation Pattern:

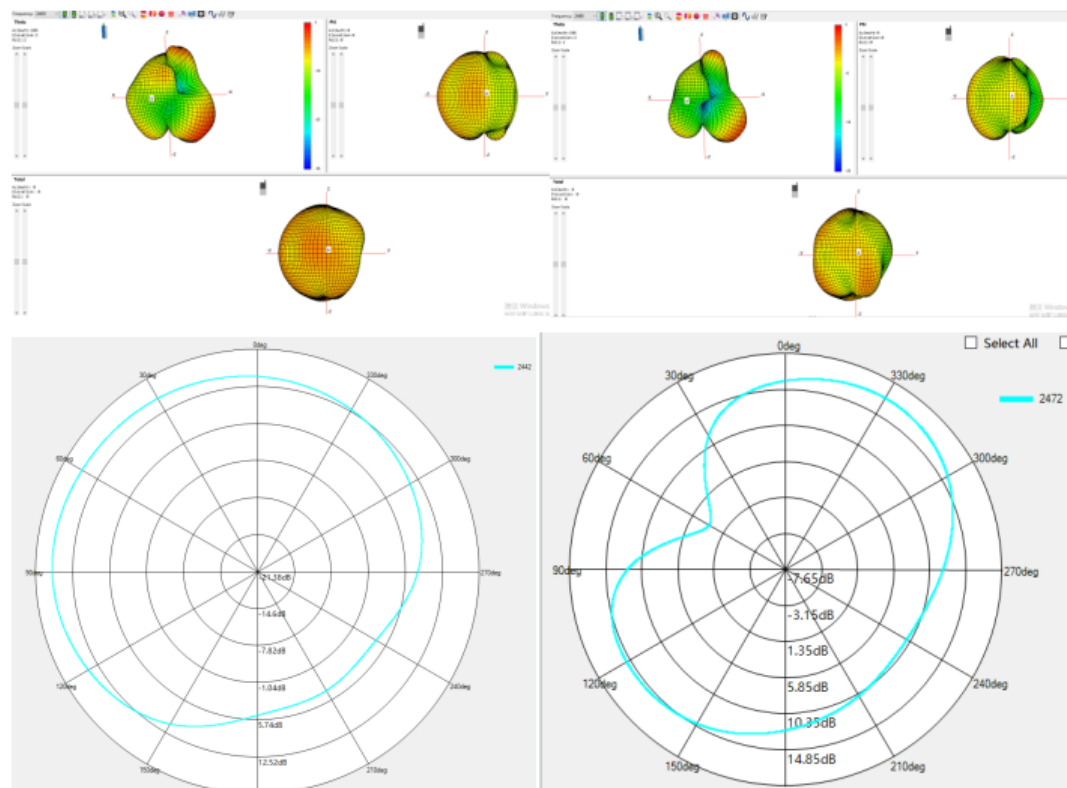


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GPS 1575.42MHz 3D and 2D Radiation Patterns:



WIFI/BT 2400-2500MHz 3D and 2D Radiation Patterns:



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WIFI 5200-5800MHz 3D and 2D Radiation Patterns:

