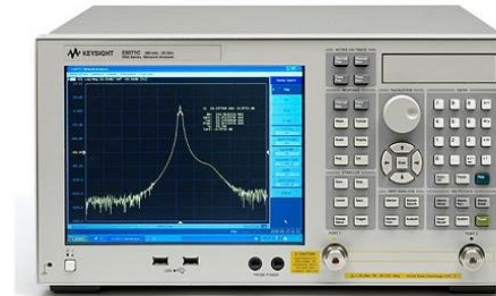


Chamber Structure

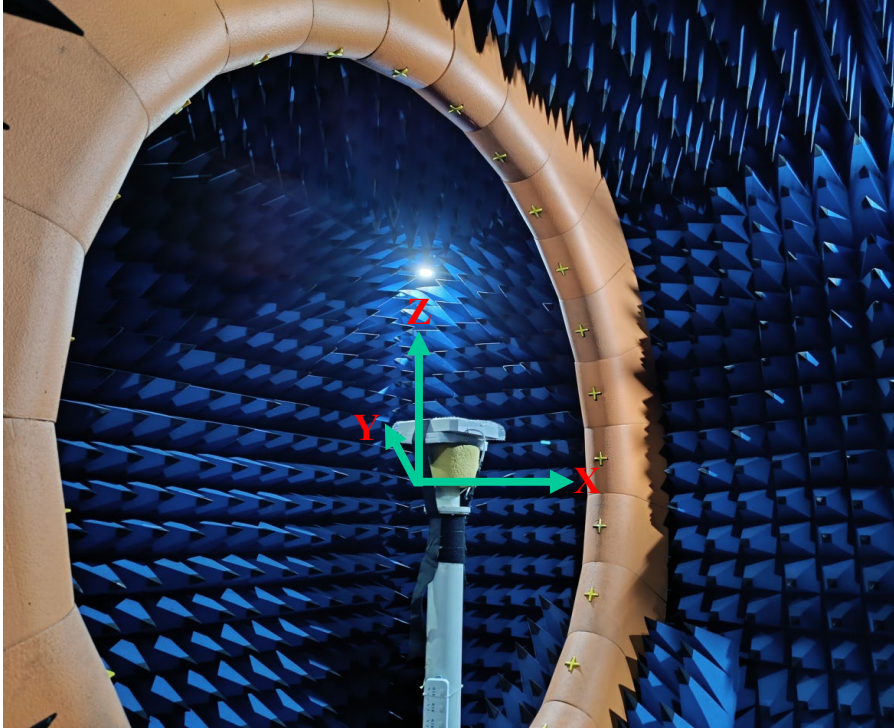
- EMT-24 Series System Components
- Chambers
- EMT Quest Software
- Positioning Systems
- Chamber Room Size: L*W*H=5*5*5 M



VSWR were performed using a keysight S-parameter Network Analyzer.



- Benchmark (Type1)

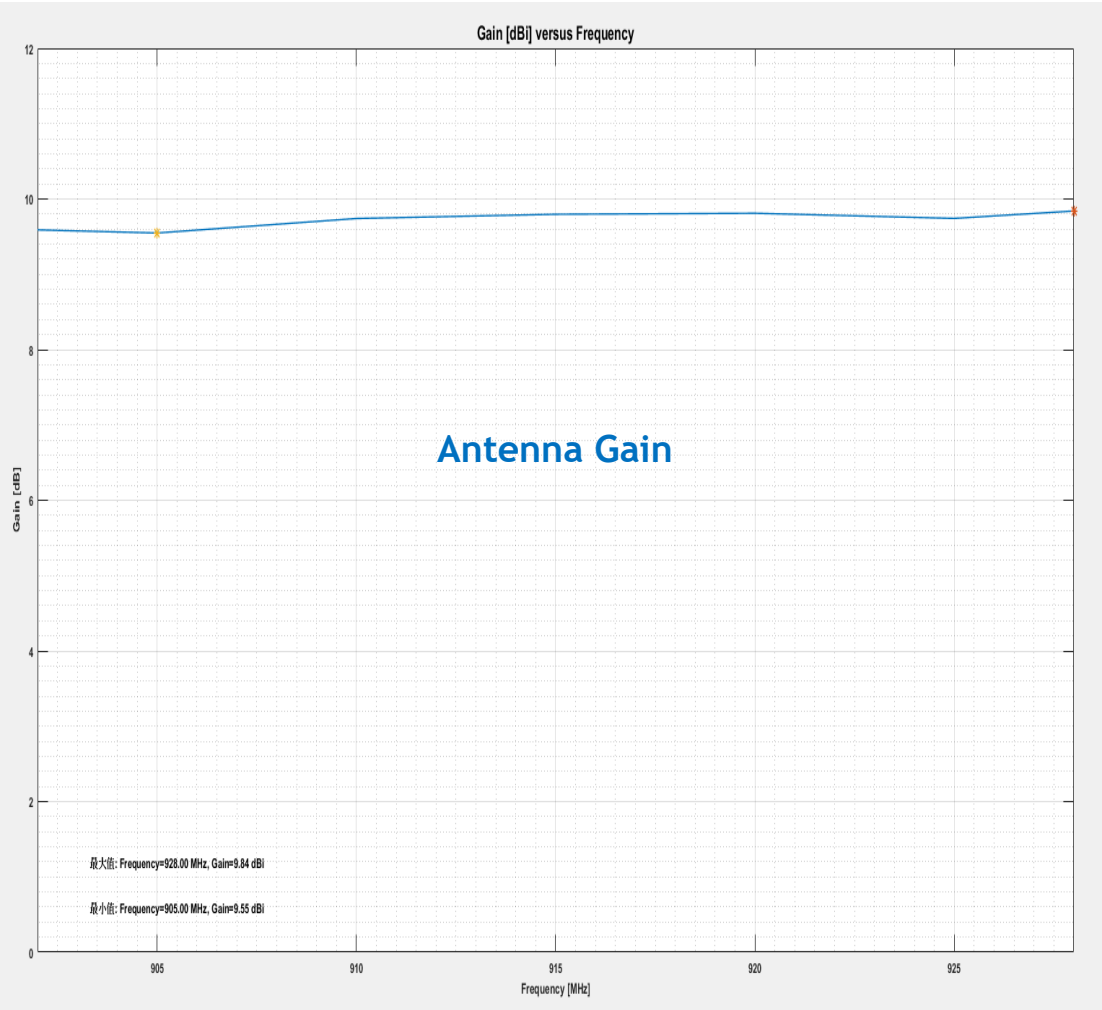
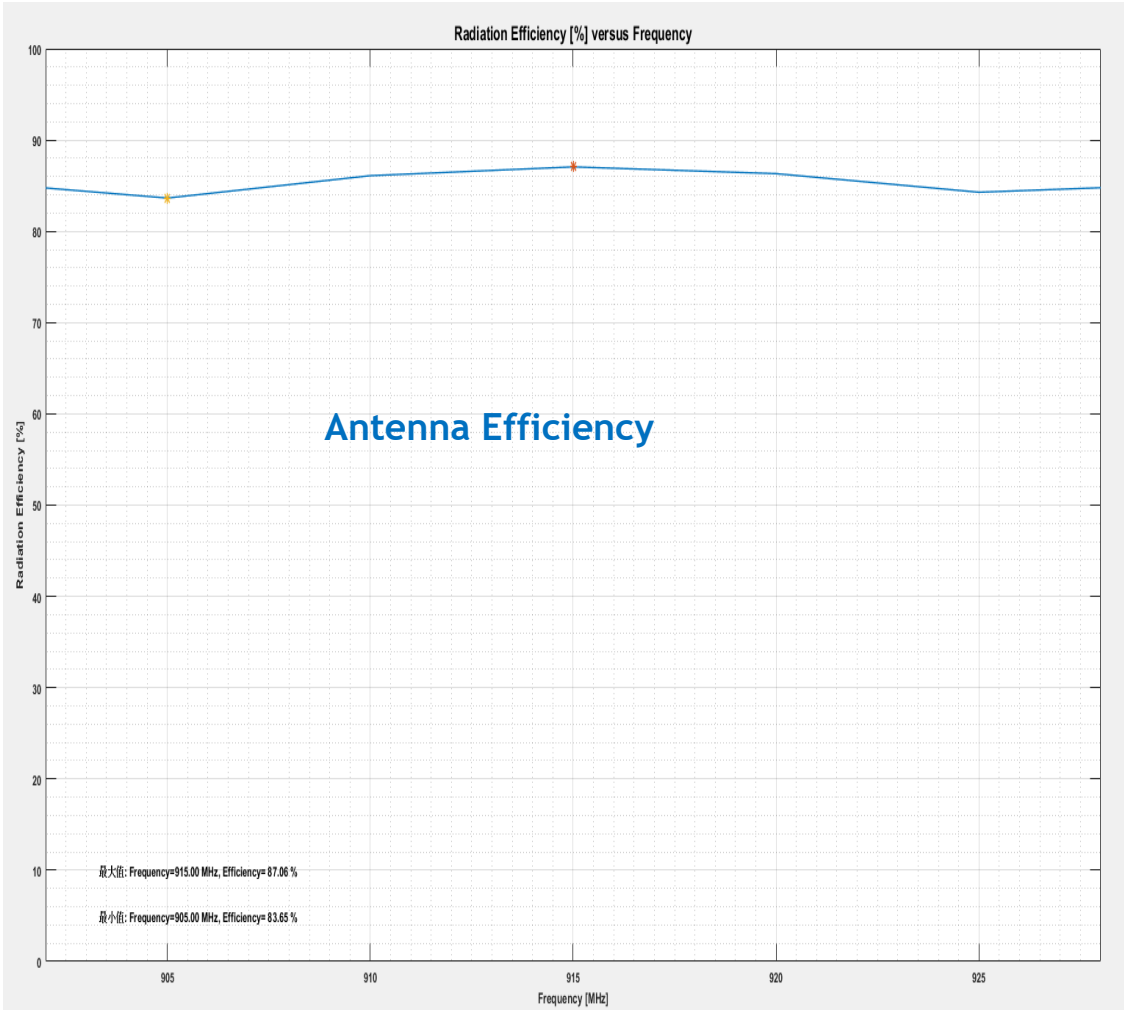


Antenna Frequency: 902MHz~928MHz

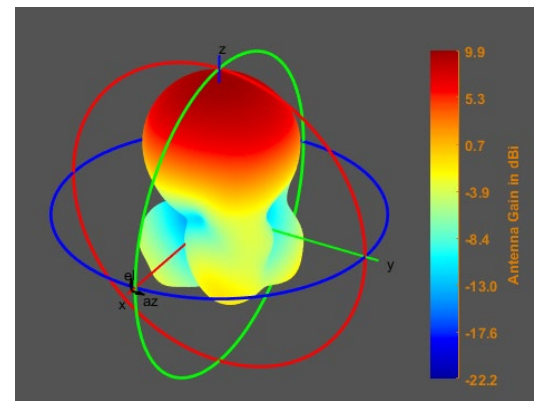
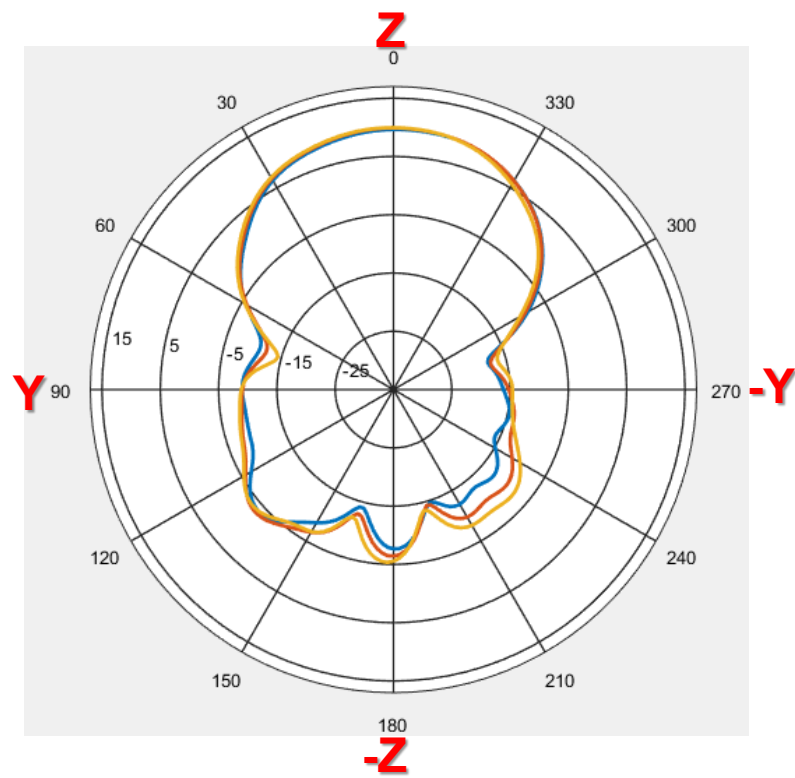
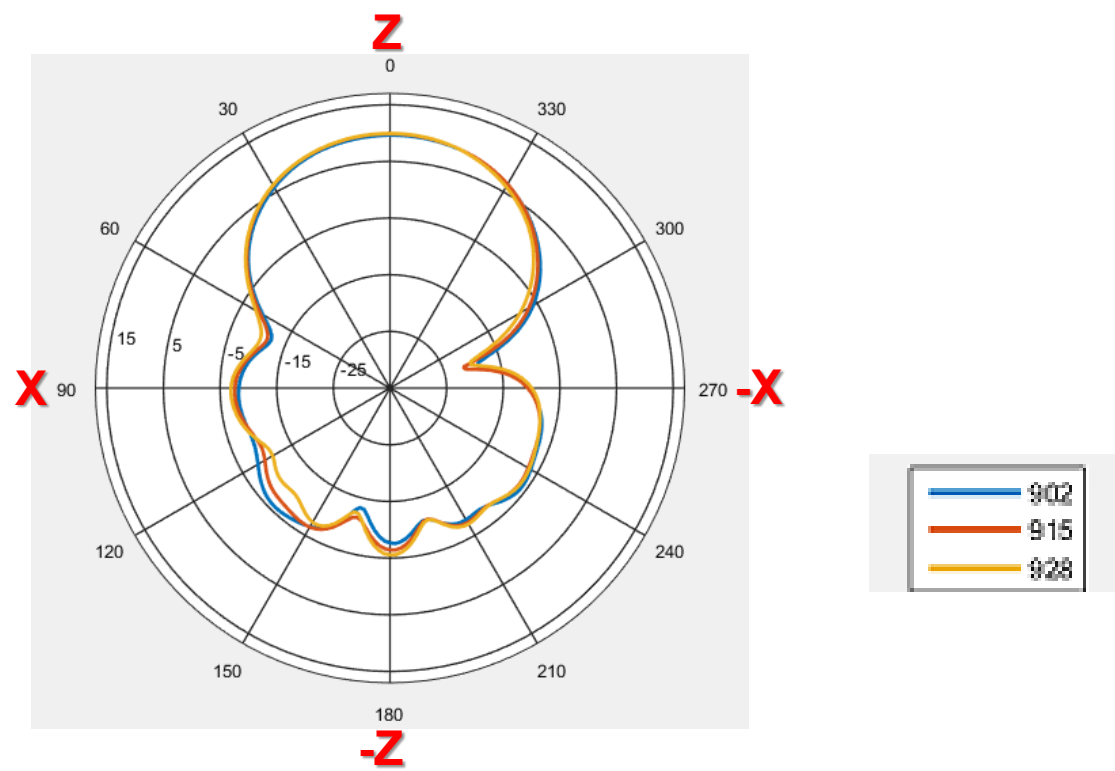
- S-Parameters (Type1)



• Antenna Efficiency& Peak Gain (Ant1) (Type1)



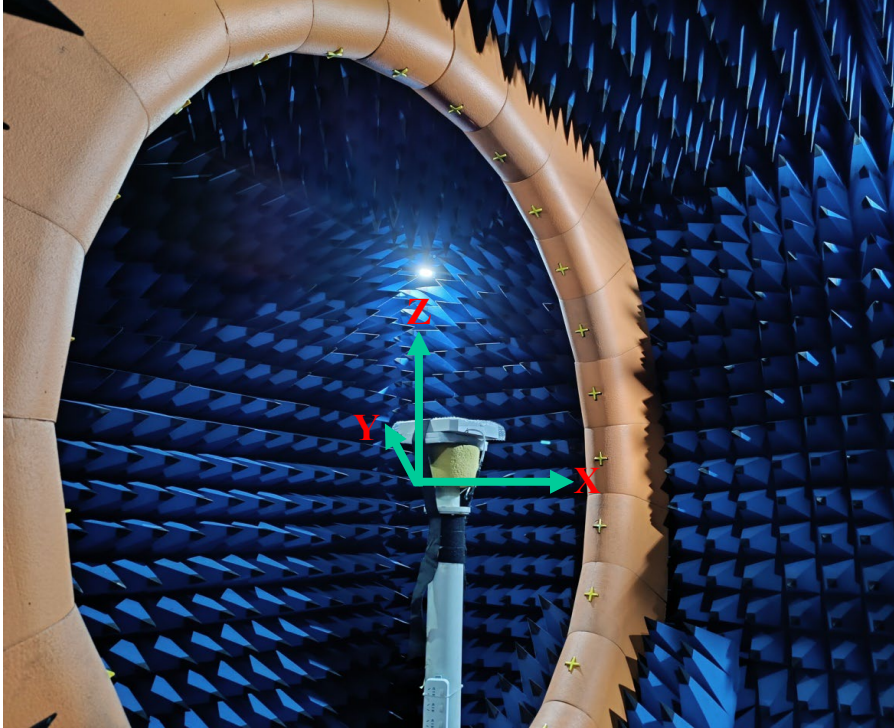
• Radiation patterns(Ant1) (Type1)



• **Summary measurement (Type1)**

	Item		902	905	910	915	920	925	928
	Gain (dBi) Linear polarization		6.59	6.55	6.74	6.80	6.81	6.74	6.84
	Efficiency(%)		84.75	83.65	86.10	87.06	86.32	84.28	84.78
	AR (1)		1.37	1.28	1.13	1.06	1.21	1.41	1.55
	HPBW(°)	phi0	56.30	56.20	55.73	55.72	55.05	54.66	53.57
		phi90	59.08	58.74	58.49	58.52	57.79	57.66	56.79

- Benchmark (Type2)

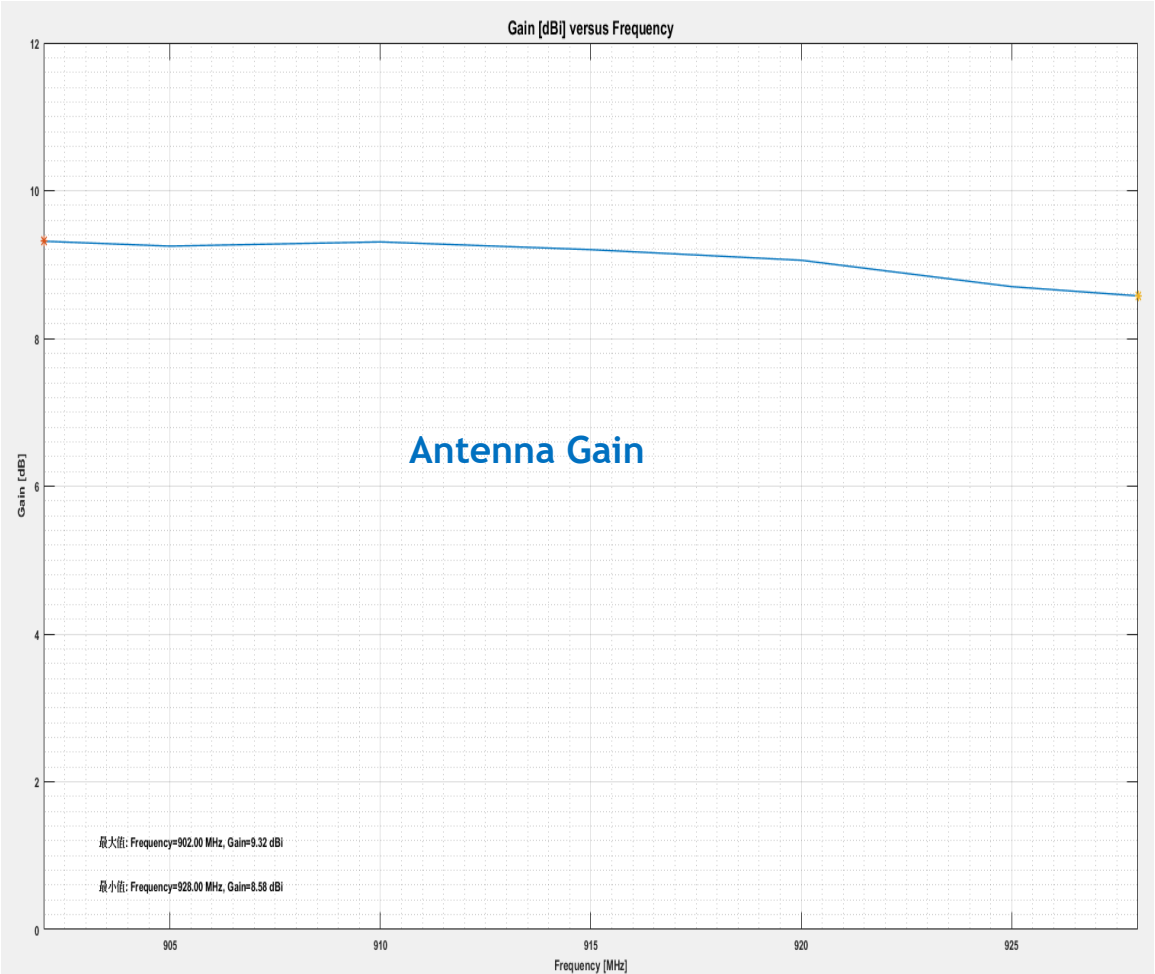
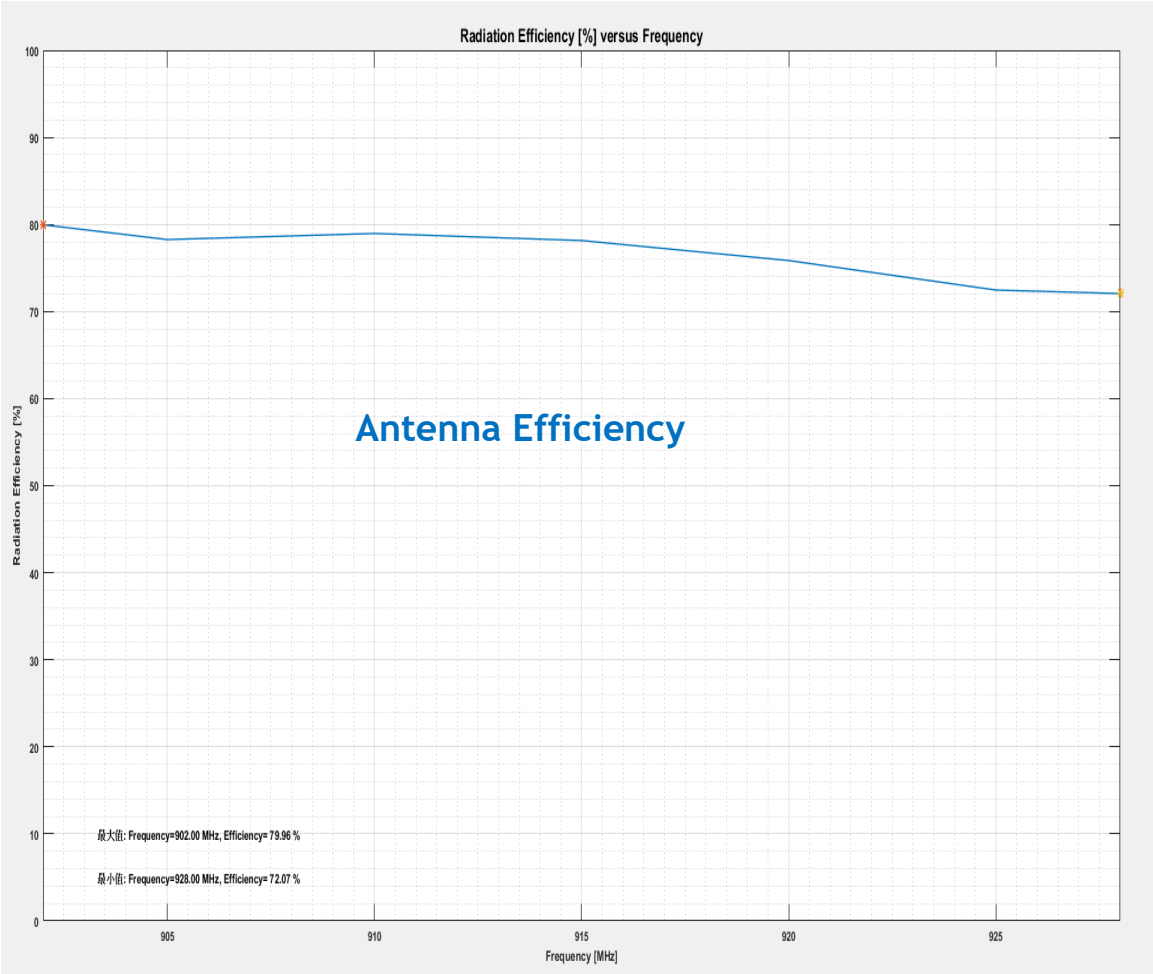


Antenna Frequency: 902MHz~928MHz

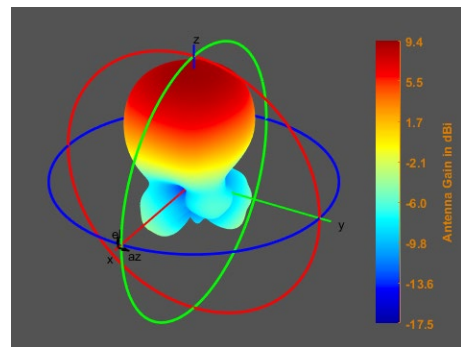
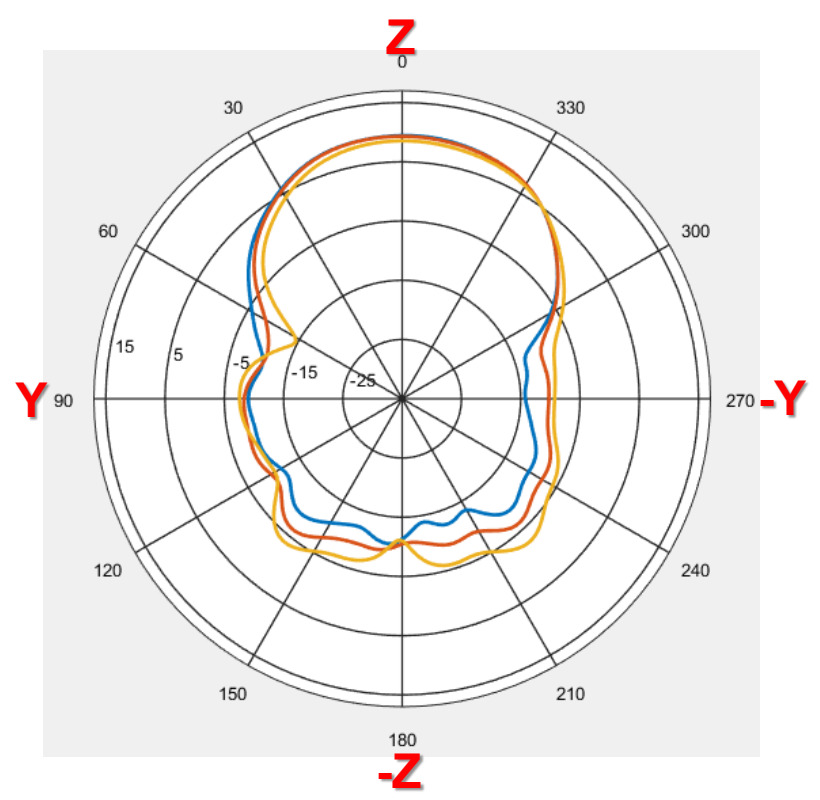
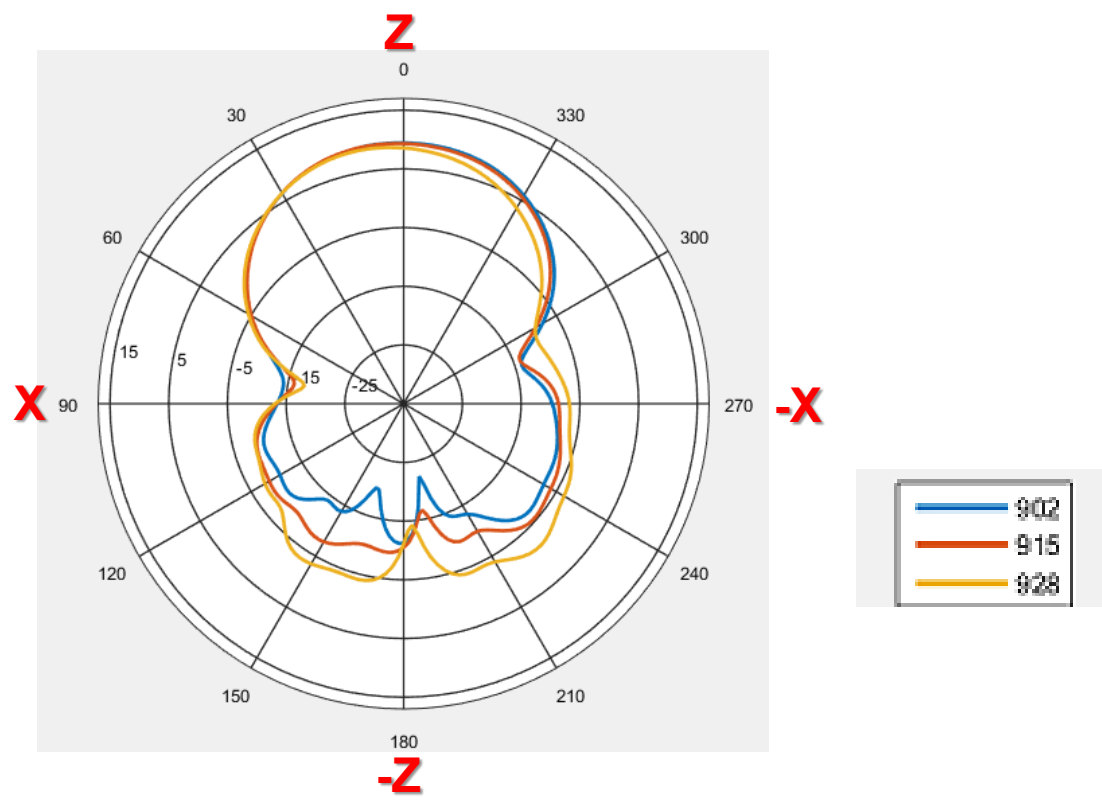
- S-Parameters (Type2)



• Antenna Efficiency& Peak Gain (Ant1) (Type2)



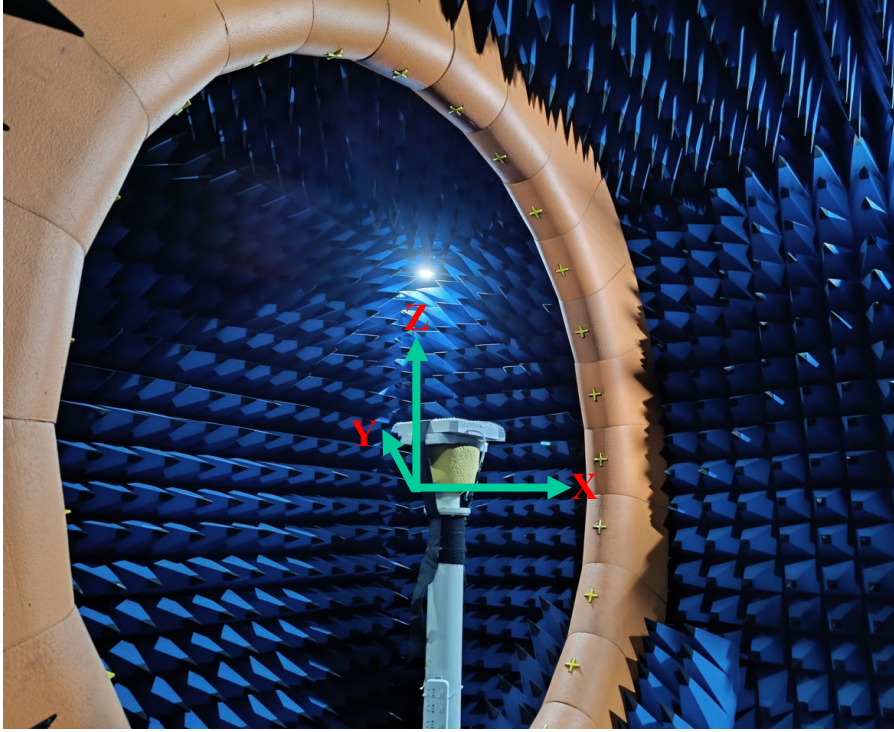
• Radiation patterns(Ant1) (Type2)



• **Summary measurement (Type2)**

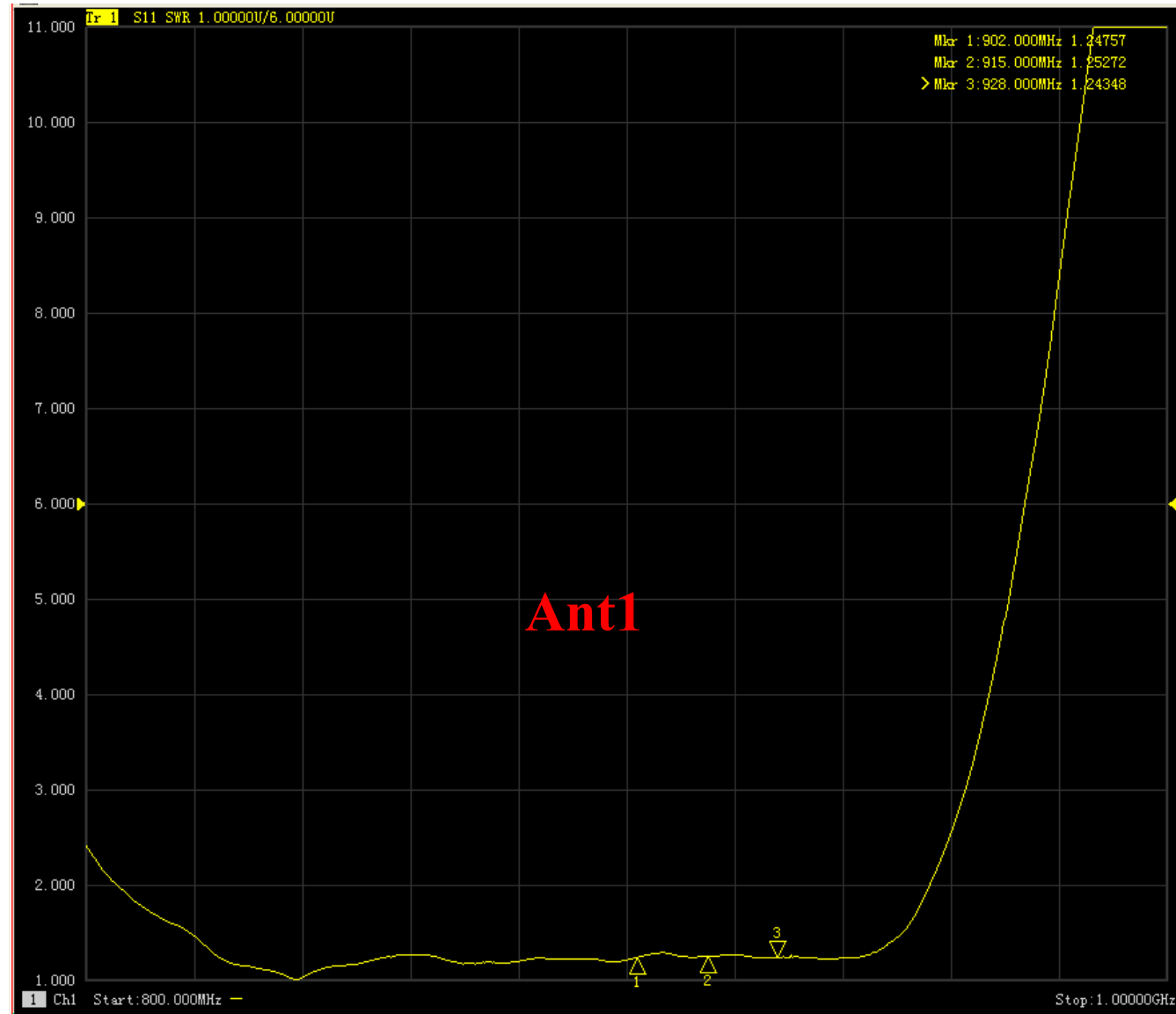
	Item		902	905	910	915	920	925	928
	Gain (dBi) Linear polarization		6.32	6.25	6.31	6.20	6.06	5.70	5.58
	Efficiency(%)		79.96	78.27	78.96	78.15	75.85	72.46	72.07
	AR (1)		1.35	1.40	1.54	1.71	1.85	1.91	1.87
	HPBW(°)	phi0	58.60	58.38	57.86	57.80	56.36	55.67	54.60
		phi90	59.18	58.79	58.78	59.22	58.62	59.29	59.41

- Benchmark (Lower level)

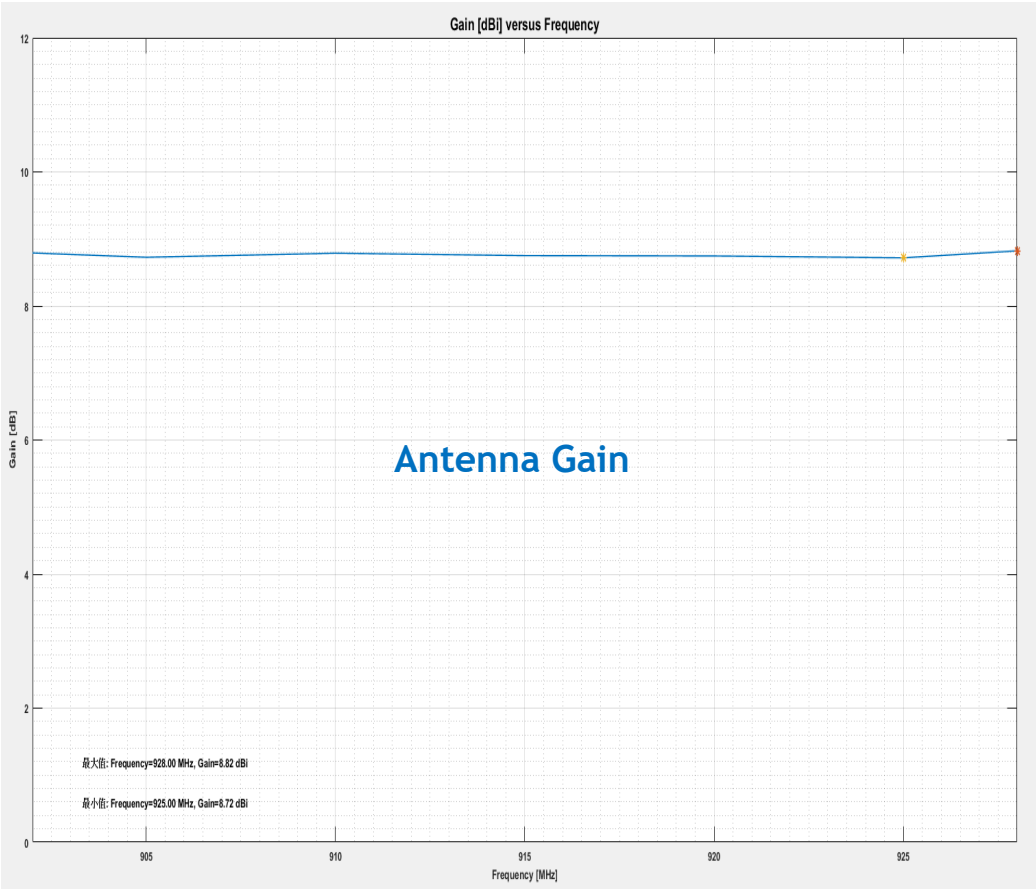
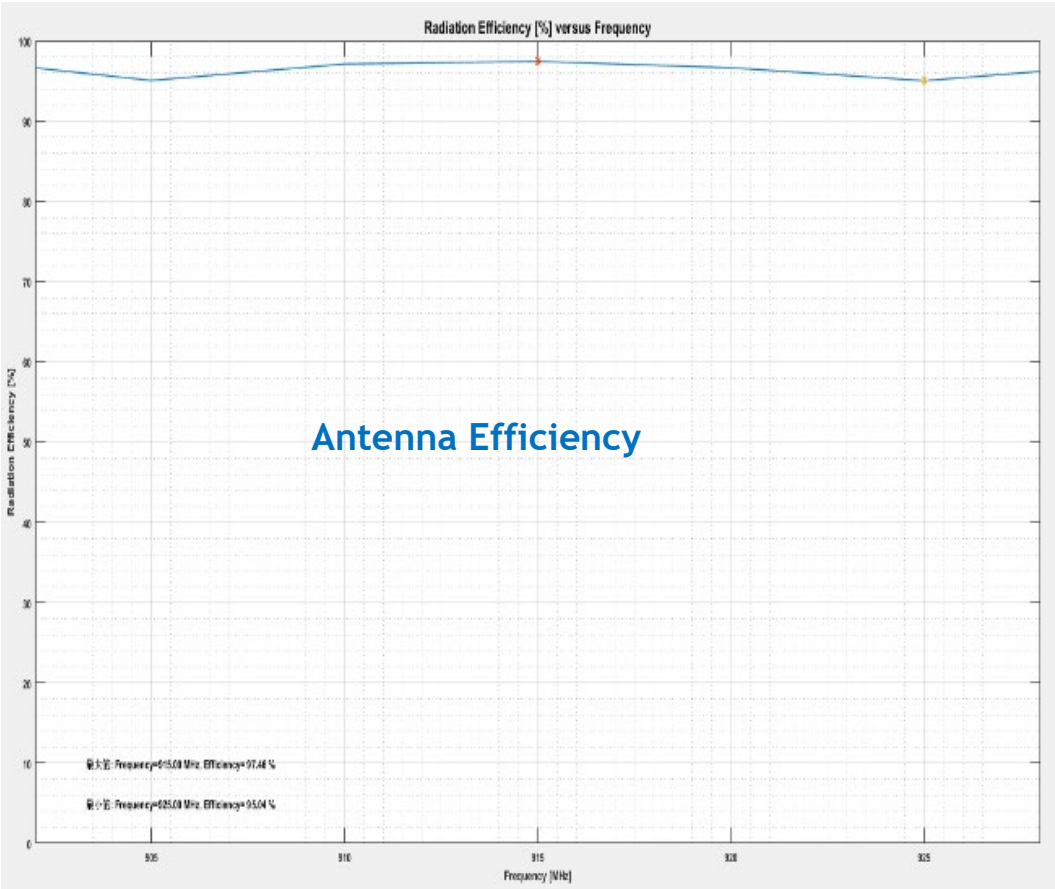


Antenna Frequency: 902MHz~928MHz

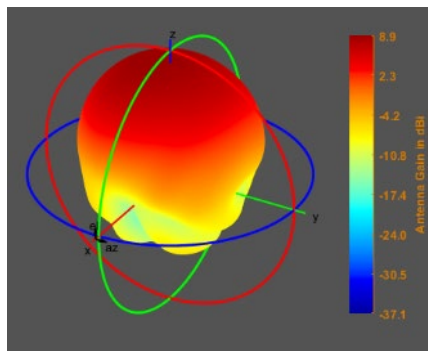
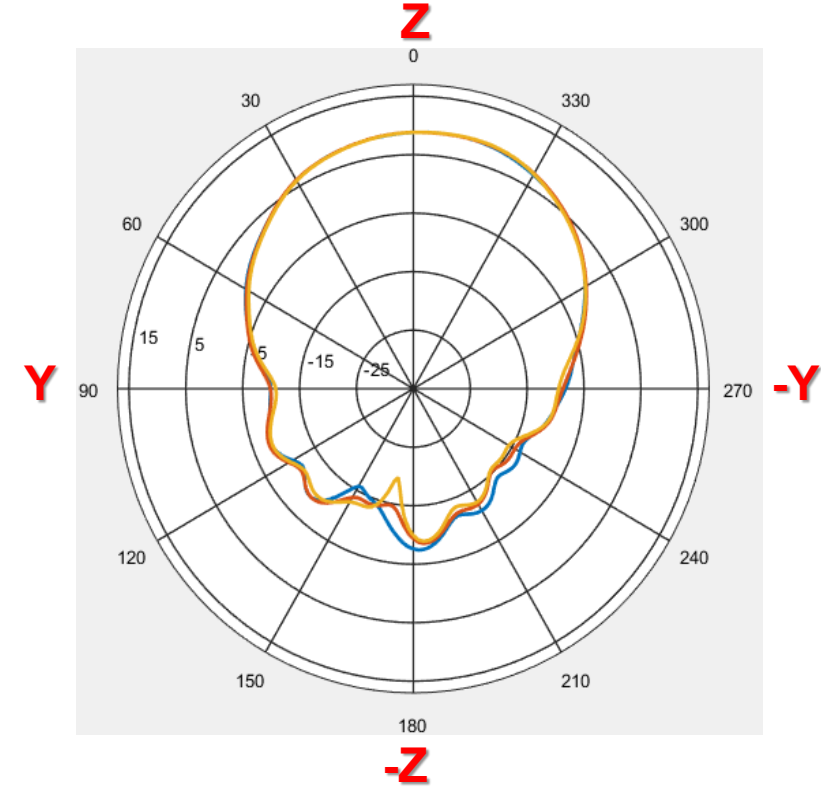
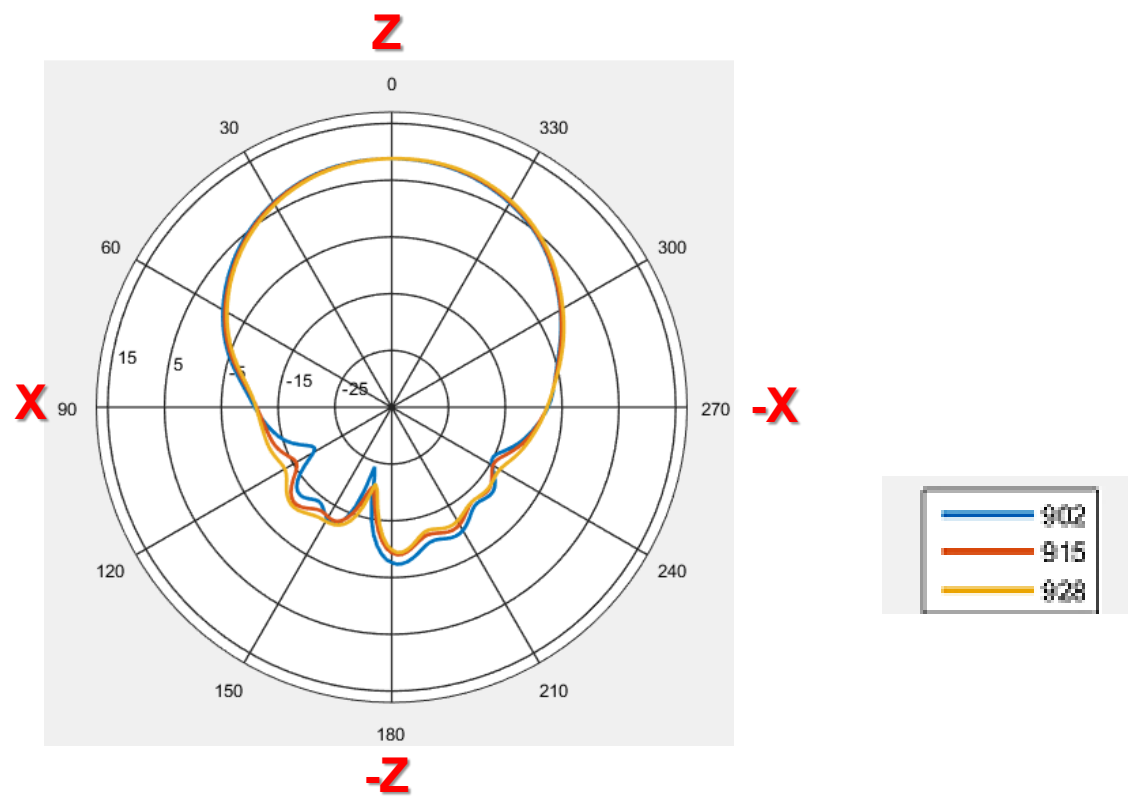
- S-Parameters (Lower level)



• Antenna Efficiency& Peak Gain (Ant1) (Lower level)



• Radiation patterns(Ant1) (Lower level)



• Summary measurement (Lower level) US

	Item		902	905	910	915	920	925	928
	Gain (dBi) Linear polarization		5.79	5.73	5.79	5.75	5.75	5.72	5.82
	Efficiency(%)		96.64	95.08	97.13	97.46	96.66	95.04	96.21
	AR (1)		1.29	1.32	1.34	1.34	1.31	1.25	1.21
	HPBW(°)	phi0	68.14	68.25	67.91	68.44	68.19	69.20	68.76
		phi90	70.04	69.99	70.46	71.18	70.33	69.52	68.47

• **Summary measurement (Lower level) EU**

	Item		860	865	867	868	870
	Gain (dBi) Linear polarization		5.57	5.53	5.60	5.61	5.62
	Efficiency(%)		90.72	88.57	88.70	89.16	90.48
	AR (1)		1.61	1.53	1.50	1.49	1.46
	HPBW(°)	phi0	72.09	71.69	70.95	71.14	71.77
		phi90	65.16	65.46	64.64	64.94	65.78

Thanks!