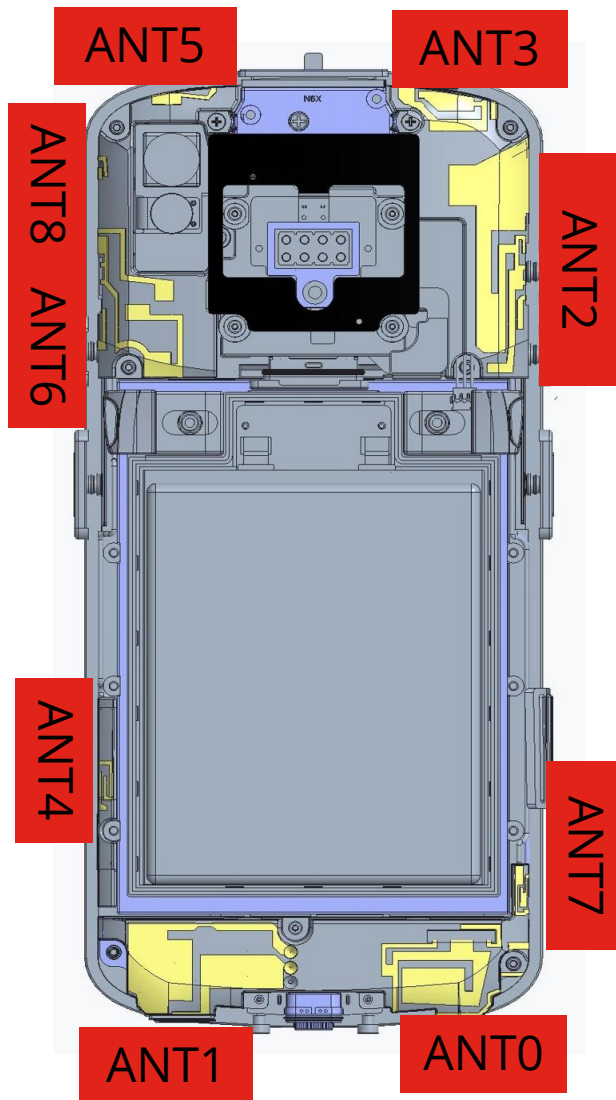




PCTE020 Ant-2 Report

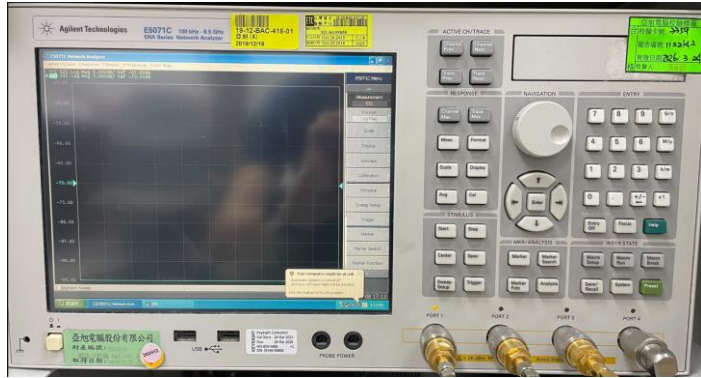
2025/06/27



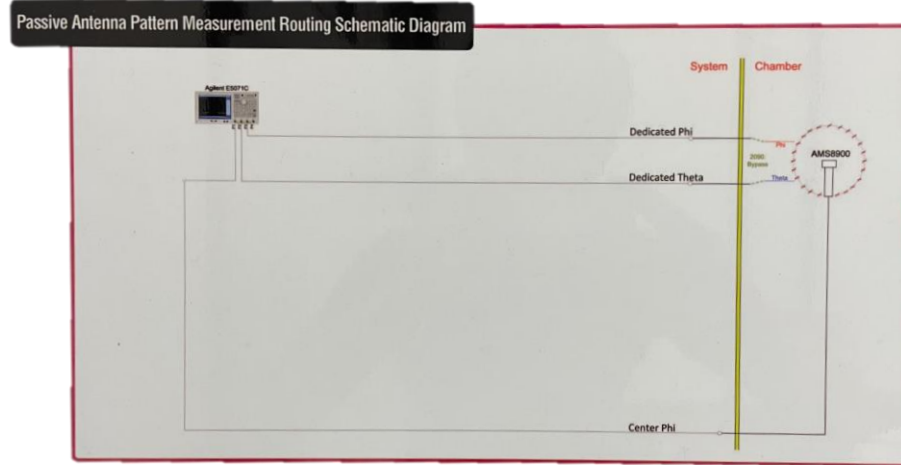


Antenna Frequency MHz								
ANTENNA	FR1					WIFI		
	LB	GNSS	MB	HB	UHB	2G Band	5G Band	6G Band
A0	617 ~ 960		1710 ~ 2200					
A1			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A2	617 ~ 960		1710 ~ 2200	2300 ~ 2690				
A3			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A4					3300 ~ 5000			
A5						2400 ~ 2500	5150 ~ 5925	~ 7125
A6		L1 L5				2400 ~ 2500		
A7					3300 ~ 5000			
A8							5150 ~ 5925	~ 7125

OTA Chamber Related configuration



Vector Analyzer
Calibrated Date :2026/03/24

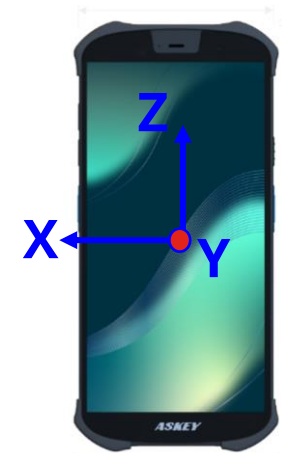
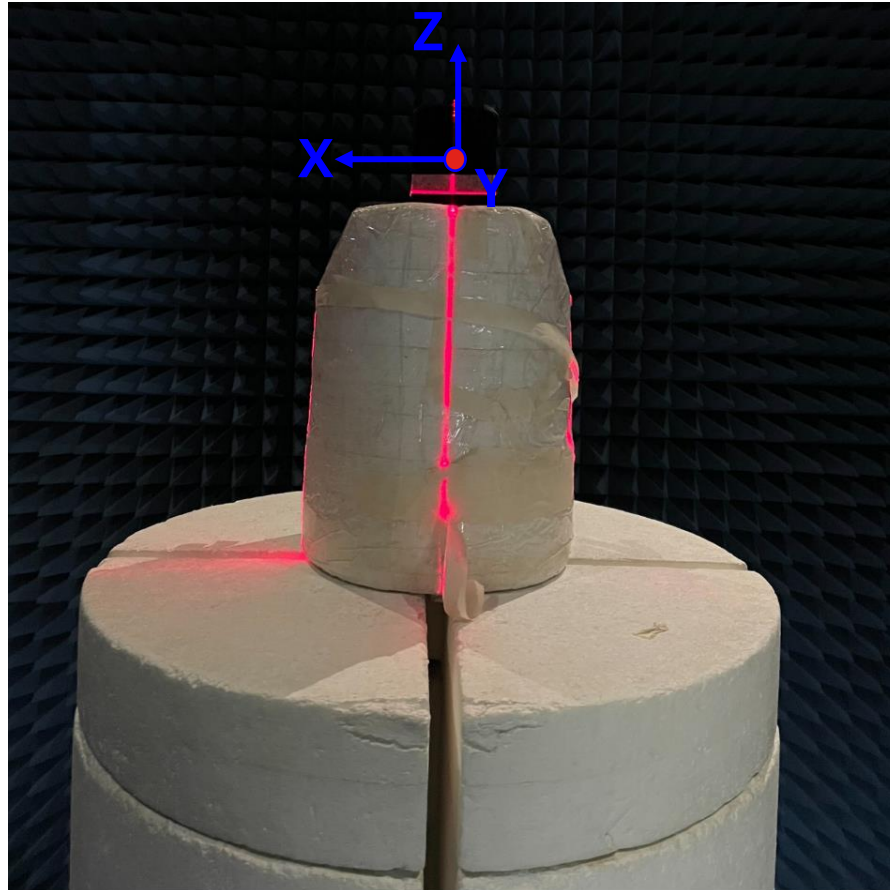


OTA Chamber Configuration °

Description of antenna testing flow_

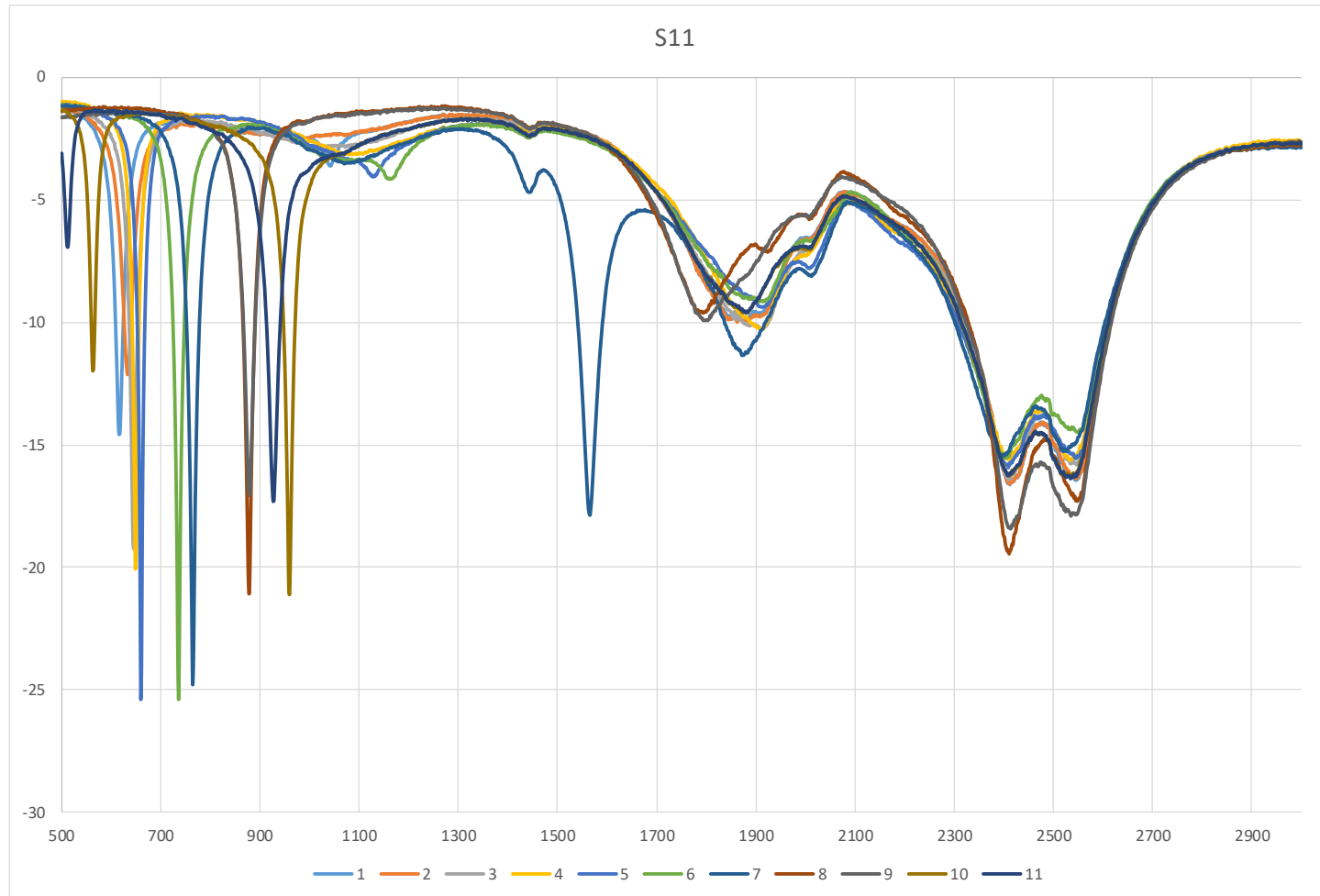
Using EST-8923 OTA Chamber to implement antenna gain report, firstly, we need setup DUT on turn table of OTA chamber, and then connect DUT's antenna indicated port to vector analyzer through coaxial cable, then run EMQUEST software setup to measure antenna 3D radiation pattern, gain, and efficiency.

DUT Setup



OTA Chamber Type : ETS-8923
Software : EMQUEST
Testing Engineer : Kevin
Testing Date : 20250305

Return Loss



Efficiency & Peak gain

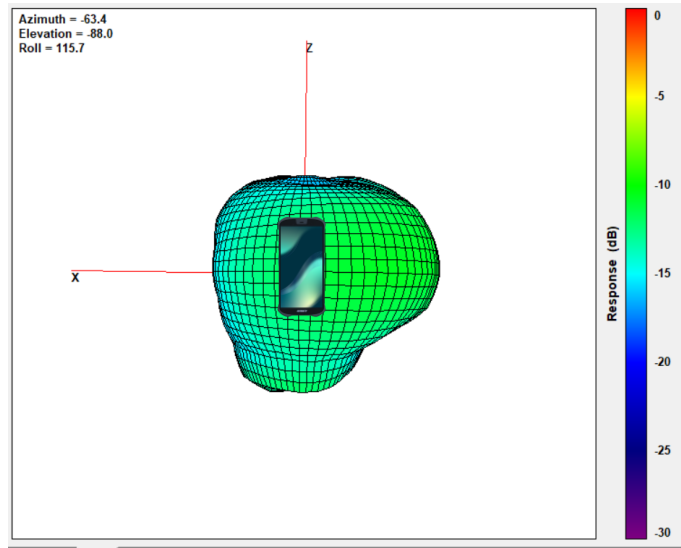
ANT2		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
600	7.21	-8.14
604	8.99	-7.29
608	10.87	-6.08
612	12.33	-6.09
616	13.45	-5.56
620	15.58	-4.60
624	15.27	-4.79
628	13.62	-5.30
632	13.10	-5.56
636	14.71	-4.94
640	15.13	-4.73
644	14.07	-5.25
648	13.85	-5.54
652	14.79	-4.97
716	19.56	-3.69
729	17.73	-3.92
734	15.64	-4.46
740	16.28	-4.08
746	14.43	-4.45
748	13.58	-4.65
751	14.04	-4.50
756	16.95	-4.06
777	20.42	-3.35
782	20.73	-3.25

ANT2		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
787	19.57	-3.58
791	14.65	-4.89
806	12.36	-5.68
821	7.03	-7.89
824	19.35	-3.41
836	20.05	-3.30
849	16.39	-4.20
862	11.37	-5.75
869	16.15	-4.18
880	16.89	-3.97
894	16.21	-4.21
925	17.37	-3.99
940	19.32	-3.56
960	13.94	-4.93
1710	20.28	-2.54
1730	21.92	-2.11
1750	24.35	-1.35
1755	25.12	-1.18
1770	27.55	-0.77
1785	30.42	-0.18
1805	33.56	0.05
1840	34.70	-0.15
1850	38.04	0.33
1880	39.49	0.85

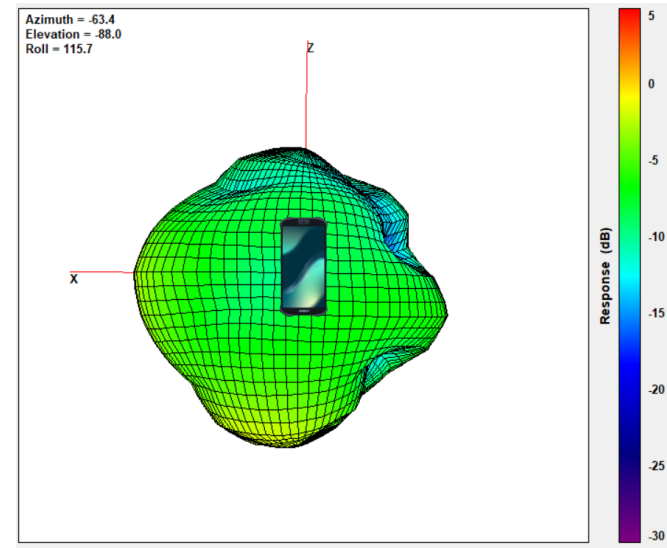
ANT2		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
1900	38.48	1.03
1910	37.57	0.99
1920	35.06	0.69
1930	30.11	0.04
1950	29.68	-0.33
1960	31.66	-0.20
1980	29.23	-0.85
1990	26.37	-1.09
2010	22.91	-1.32
2018	23.13	-1.36
2025	23.58	-1.33
2110	26.29	-1.56
2140	26.21	-1.55
2155	26.25	-1.46
2170	26.55	-1.31
2200	25.60	-1.85
2300	16.00	-3.03
2350	12.02	-4.47
2400	15.86	-2.78
2500	25.32	-1.49
2515	27.18	-0.75

ANT2		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2535	27.76	-0.26
2555	30.22	0.20
2570	35.64	1.18
2595	34.25	1.04
2620	32.53	0.78
2630	28.79	0.50
2655	25.71	0.04
2680	22.62	-0.34
2690	22.26	-0.59

Radiated Pattern at maximum gain



824 MHz



2570 MHz



Manufacturing Experiences.

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