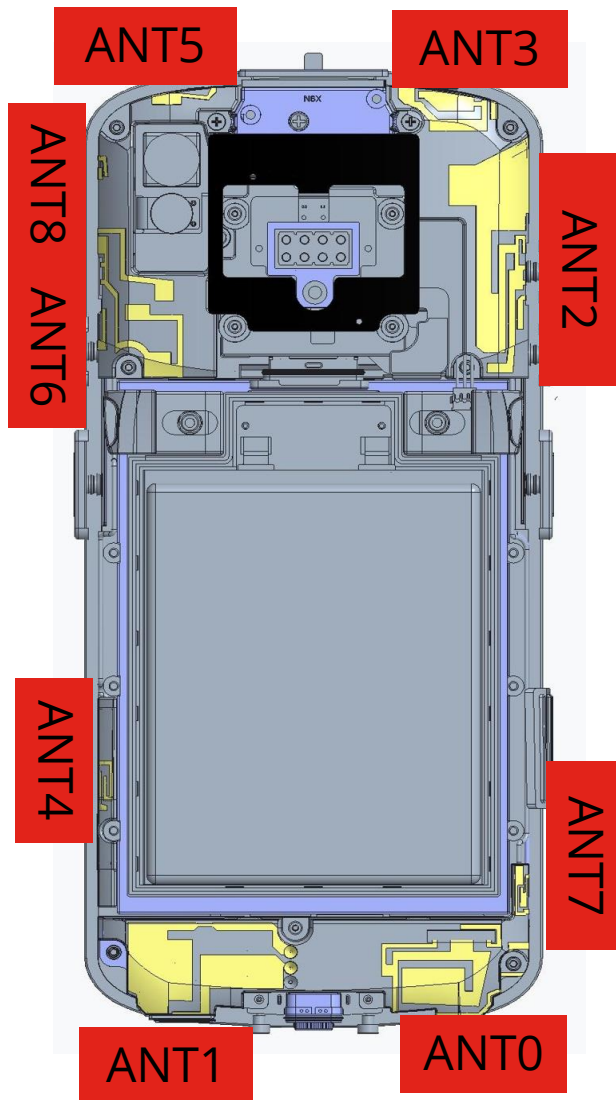




PCTE020 Ant-1 Report

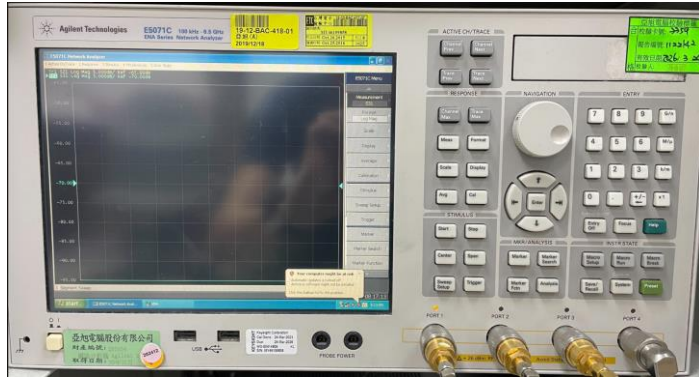
2025/06/27



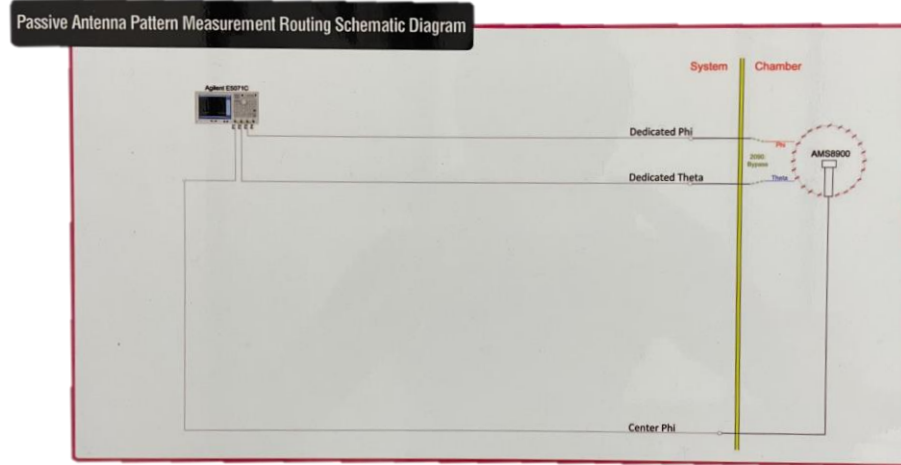


Antenna Frequency MHz								
ANTENNA	FR1					WIFI		
	LB	GNSS	MB	HB	UHB	2G Band	5G Band	6G Band
A0	617 ~ 960		1710 ~ 2200					
A1			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A2	617 ~ 960		1710 ~ 2200	2300 ~ 2690				
A3			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A4					3300 ~ 5000			
A5						2400 ~ 2500	5150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

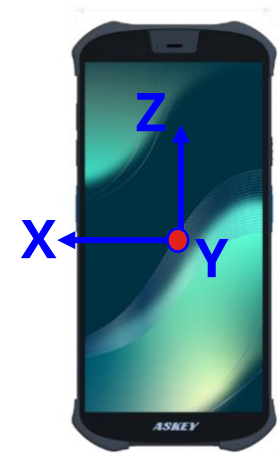
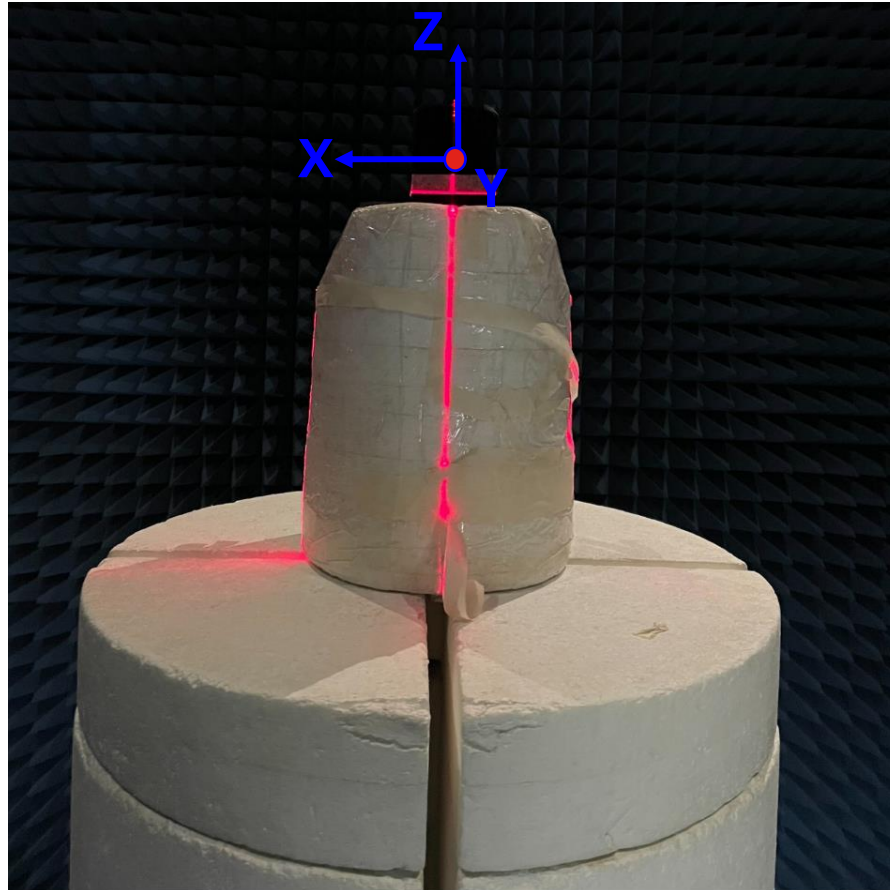


OTA Chamber Configuration °

Description of antenna testing flow_

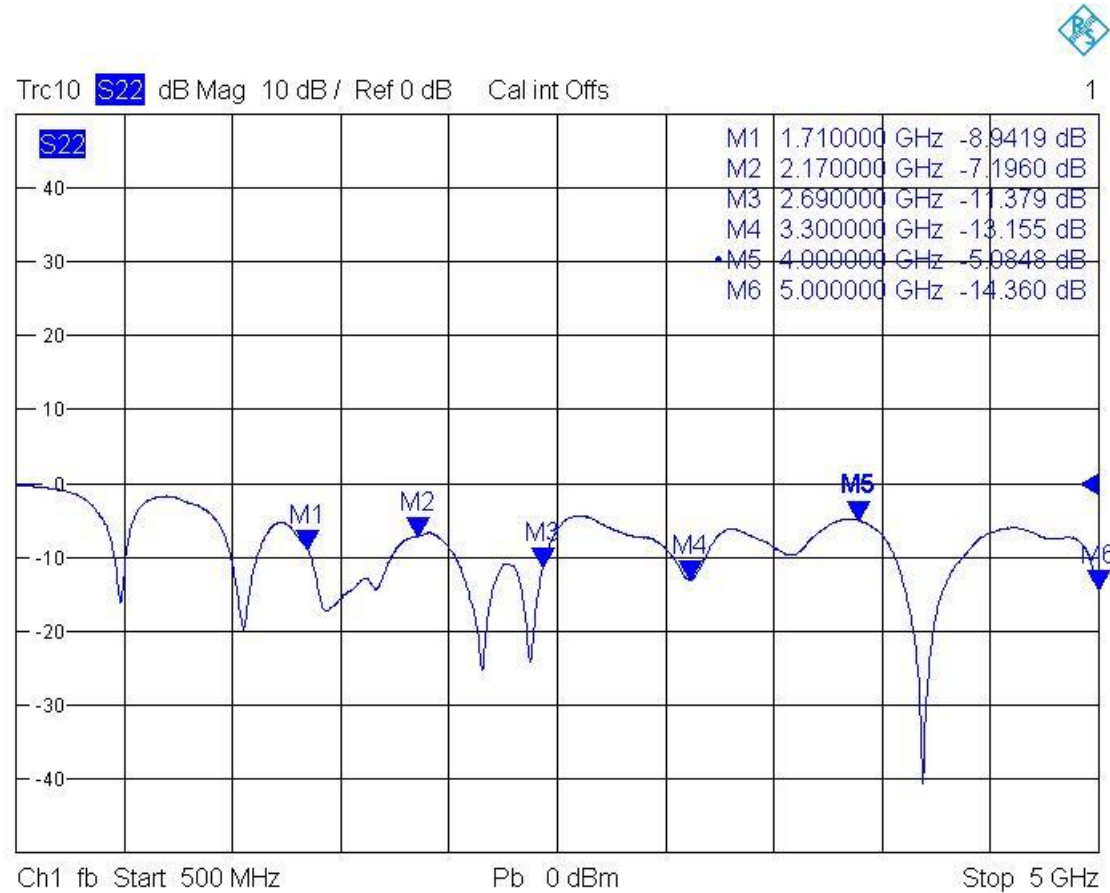
Using EST-8923 OTA Chamber to implement antenna gain report, firstly, we need setup DUT on turn table of OTA chamber, and then connect DUT's antenna indicated port to vector analyzer through coaxial cable, then run EMQUEST software setup to measure antenna 3D radiation pattern, gain, and efficiency.

DUT Setup



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

Return Loss



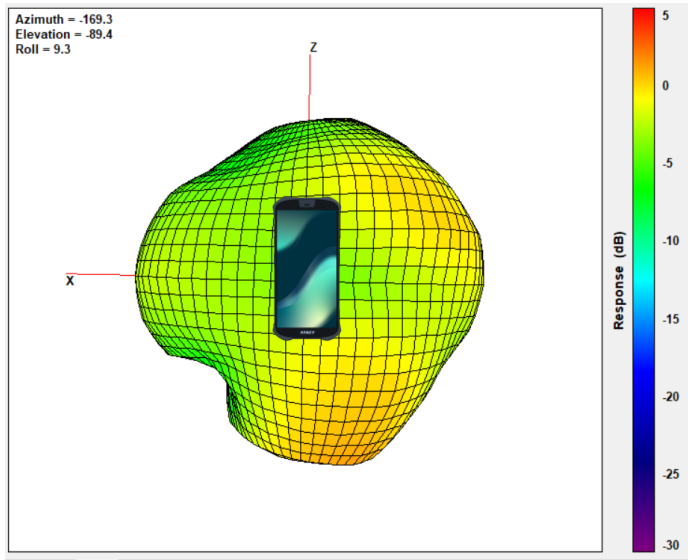
Efficiency & Peak gain

ANT1		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
1427	19.26	-1.26
1500	23.57	-0.60
1710	22.57	-1.39
1730	18.71	-1.84
1750	15.31	-2.97
1755	15.85	-2.83
1770	19.60	-1.82
1785	24.23	-0.25
1805	26.77	-0.01
1840	25.10	0.12
1850	25.71	0.24
1880	23.87	0.47
1900	20.19	-0.61
1910	19.93	-0.80
1920	20.76	-0.79
1930	21.20	-1.05
1950	20.09	-1.91
1960	20.14	-1.90
1980	22.36	-0.72
1990	23.24	-0.32
2010	25.01	0.10
2018	24.89	0.35

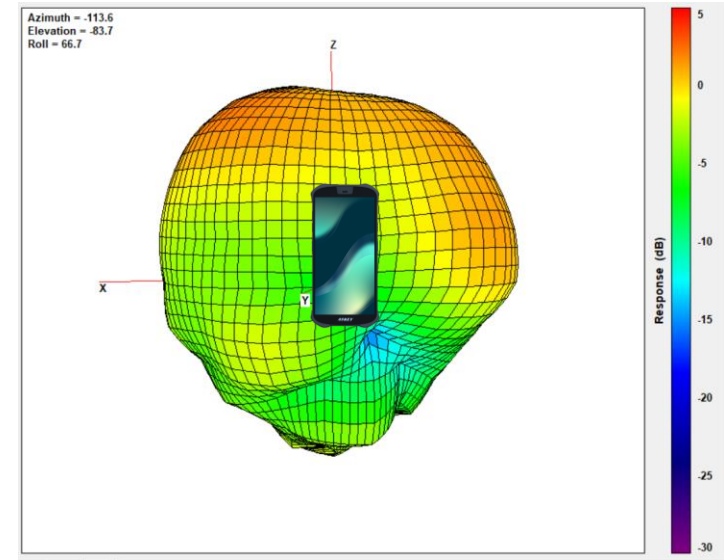
ANT1		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2025	24.46	0.34
2110	24.56	-0.64
2140	28.03	0.06
2155	31.93	0.43
2170	31.78	0.42
2200	33.20	0.77
2300	35.54	1.09
2350	44.24	1.97
2400	43.86	2.54
2500	35.08	1.63
2515	37.92	2.10
2535	35.25	1.54
2555	32.04	1.21
2570	32.06	1.44
2595	30.19	1.55
2620	28.37	1.00
2630	29.37	1.08
2655	25.27	0.16
2680	21.97	-0.59
2690	21.95	-0.46
3300	25.52	0.36
3350	19.94	-1.04

ANT1		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
3400	15.79	-2.20
3450	14.49	-1.60
3500	17.58	0.39
3550	20.67	1.58
3600	21.96	1.64
3650	26.31	2.15
3700	31.75	2.95
3750	33.07	3.14
3800	30.64	2.99
3850	25.79	2.11
3900	27.15	2.25
3950	26.13	1.81
4000	26.21	1.40
4050	27.44	1.40
4100	30.75	2.08
4150	36.68	2.95
4200	44.46	3.58
4400	44.21	3.11
4450	38.59	2.67
4500	33.46	2.08
4550	27.52	0.99
4600	23.47	0.57

Radiated Pattern at maximum gain



2400 MHz



4200 MHz



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