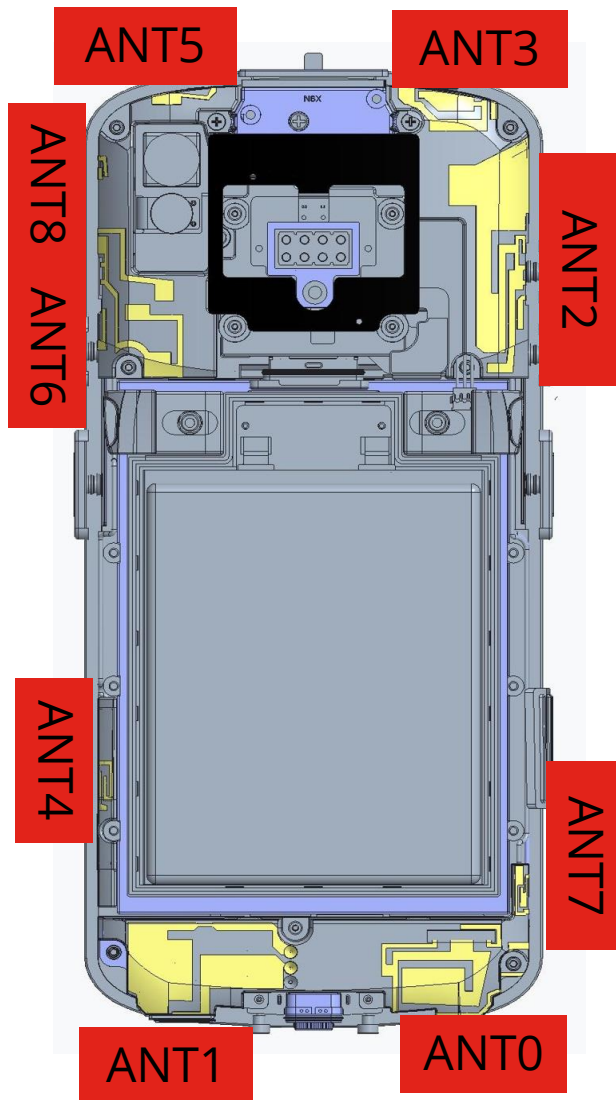




PCTE020 Ant-5 Report

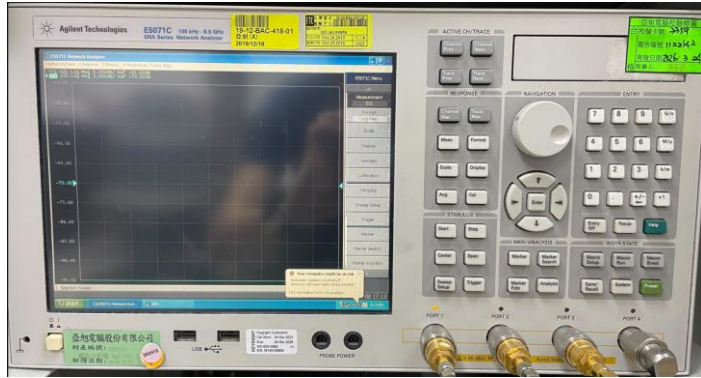
2025/06/27



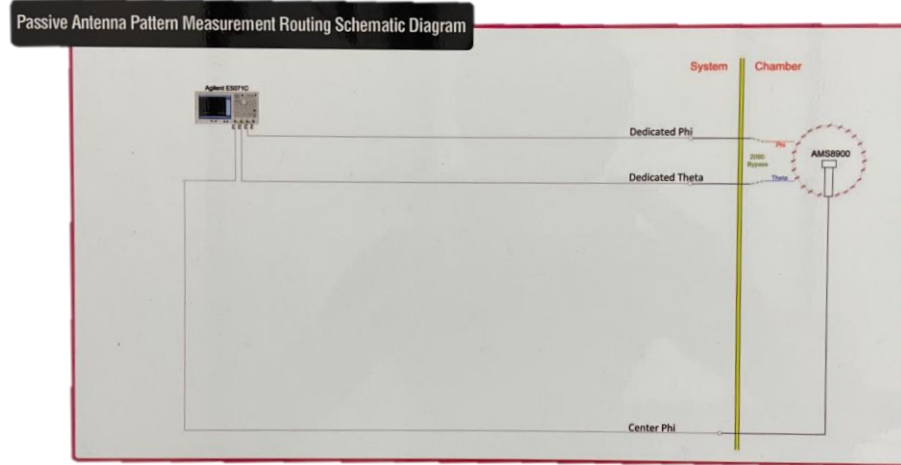


Antenna Frequency MHz								
ANTENNA	FR1					WIFI		
	LB	GNSS	MB	HB	UHB	2G Band	5G Band	6G Band
A0	617 ~960		1710 ~ 2200					
A1			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A2	617 ~960		1710 ~ 2200	2300 ~ 2690				
A3			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A4					3300 ~ 5000			
A5						2400 ~ 2500	5150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

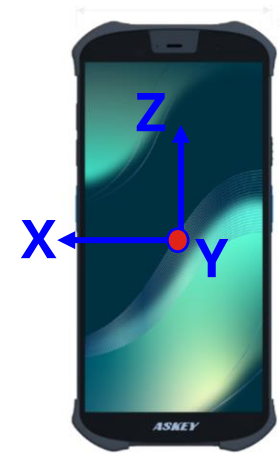
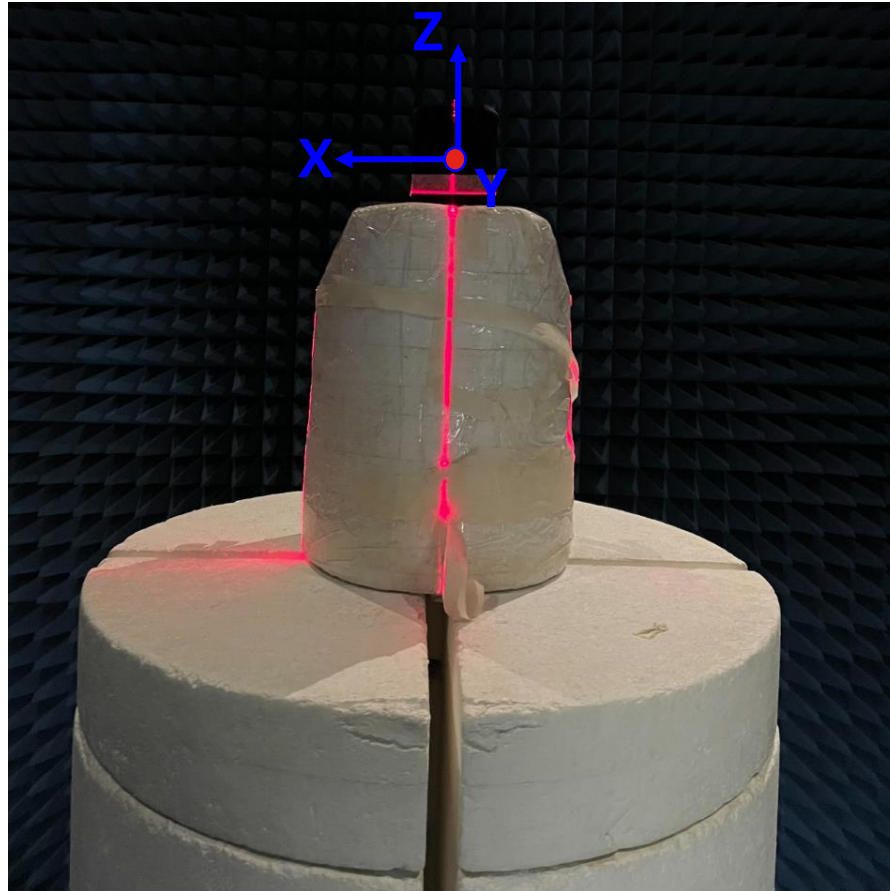


OTA Chamber Configuration °

Description of antenna testing flow_

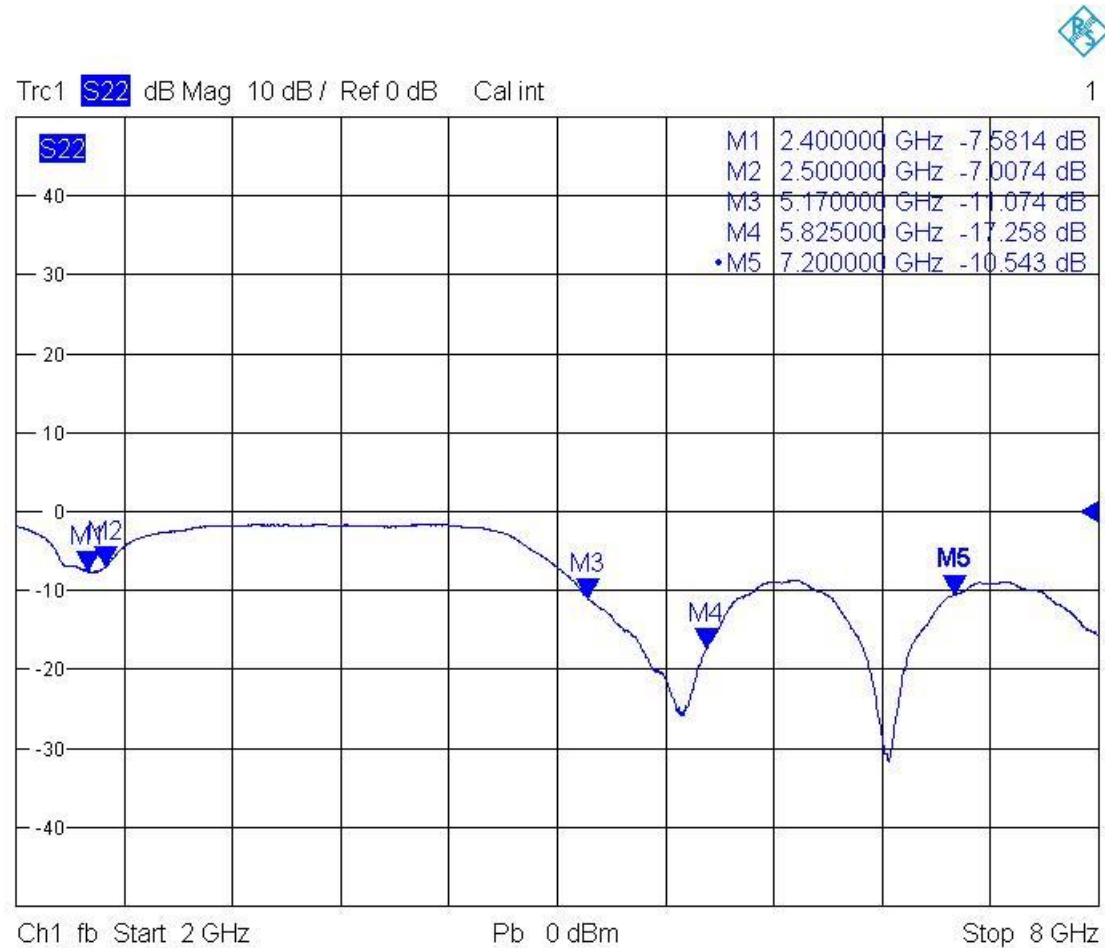
Using EST-8923 OTA Chamber to implement antenna gain report, firstly, we need setup DUT on turn table of OTA chamber, and then connect DUT's antenna indicated port to vector analyzer through coaxial cable, then run EMQUEST software setup to measure antenna 3D radiation pattern, gain, and efficiency.

DUT Setup



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

Return Loss

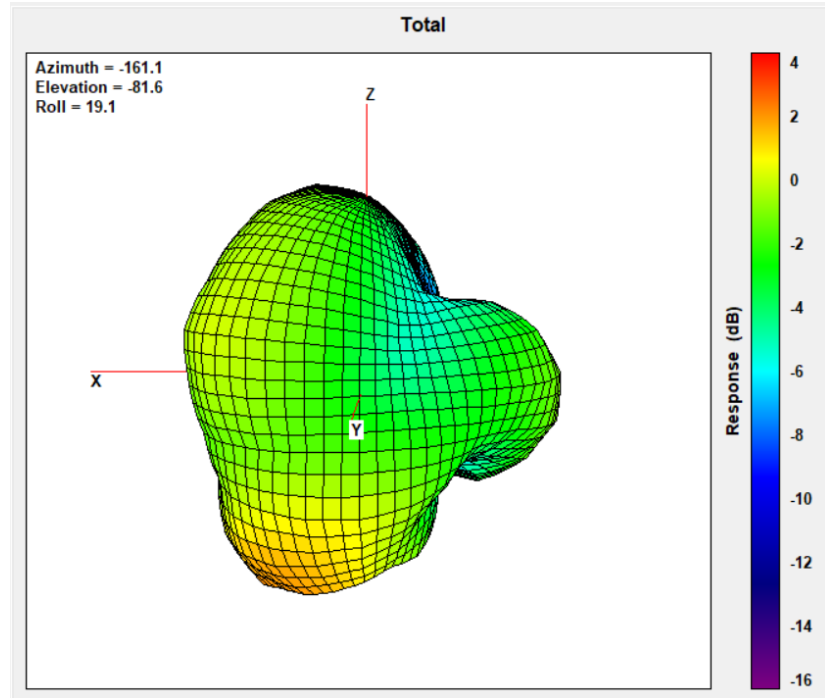


Efficiency & Peak gain

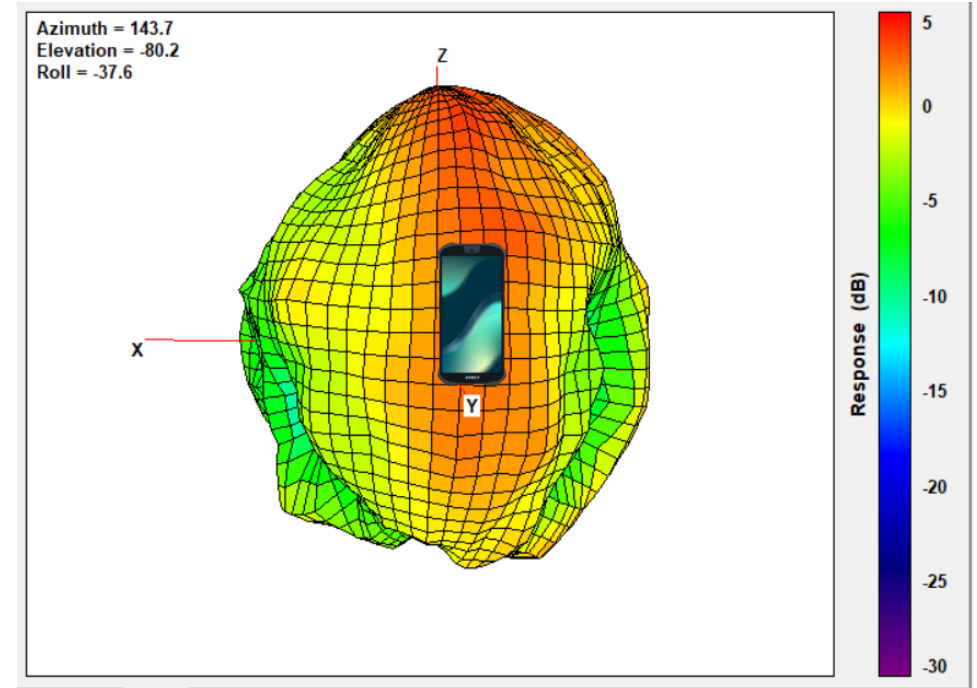
ANT5		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2402	34.43	0.89
2412	35.73	1.23
2442	34.25	1.46
2484	31.64	1.12
5000	36.54	1.95
5150	44.23	2.50
5250	40.89	2.21
5350	41.82	1.41
5450	42.92	1.06
5550	48.06	2.03
5650	50.66	2.18
5750	42.88	0.57

ANT5		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
5850	49.82	2.21
5925	44.76	1.91
6000	49.16	2.87
6100	54.97	3.73
6200	51.59	3.42
6300	54.14	3.90
6400	57.49	4.17
6500	58.69	3.44
6600	63.91	3.93
6700	64.10	4.00
6800	62.00	4.43
6900	64.49	4.01
7000	64.42	4.36
7100	65.81	4.97
7125	66.58	5.01

Radiated Pattern at maximum gain



2442 MHz



7125 MHz



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