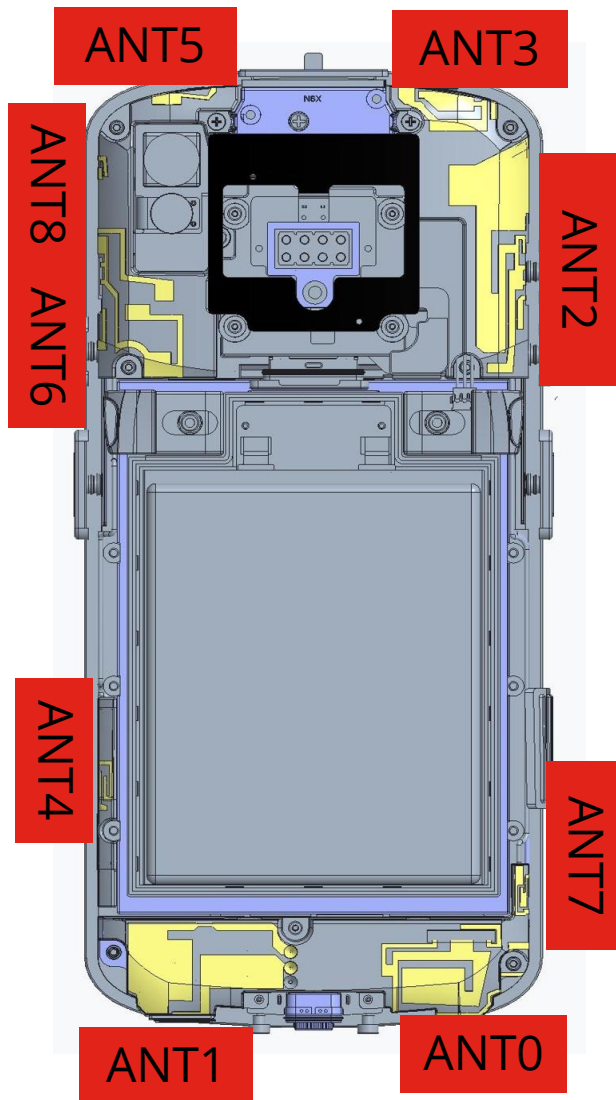




PCTE020 Ant-0 Report

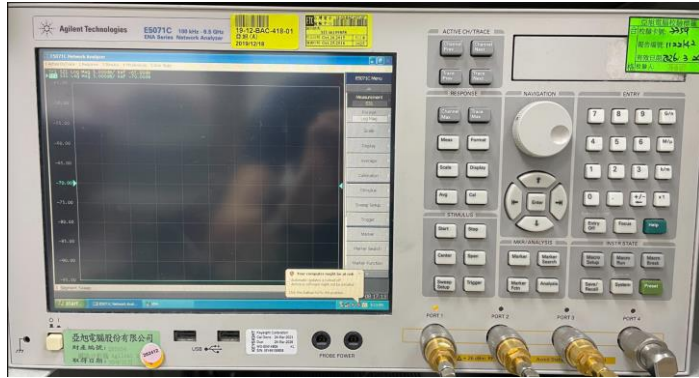
2025/06/27



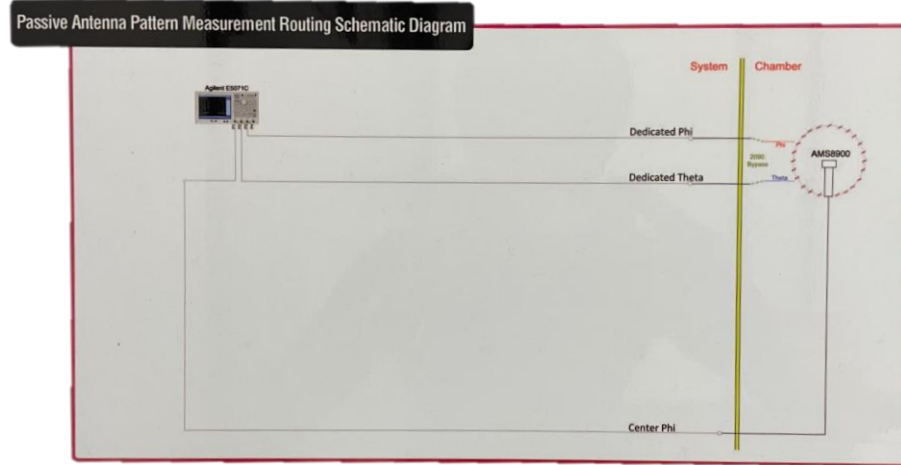


Antenna Frequency MHz								
ANTENNA	FR1					WIFI		
	LB	GNSS	MB	HB	UHB	2G Band	5G Band	6G Band
A0	617 ~ 960		1710 ~ 2200					
A1			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A2	617 ~ 960		1710 ~ 2200	2300 ~ 2690				
A3			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A4					3300 ~ 5000			
A5						2400 ~ 2500	5150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

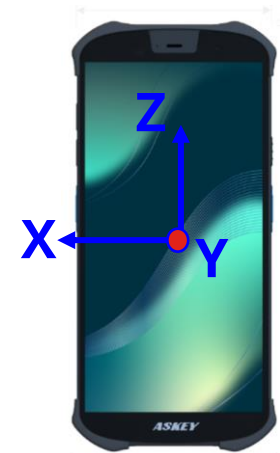
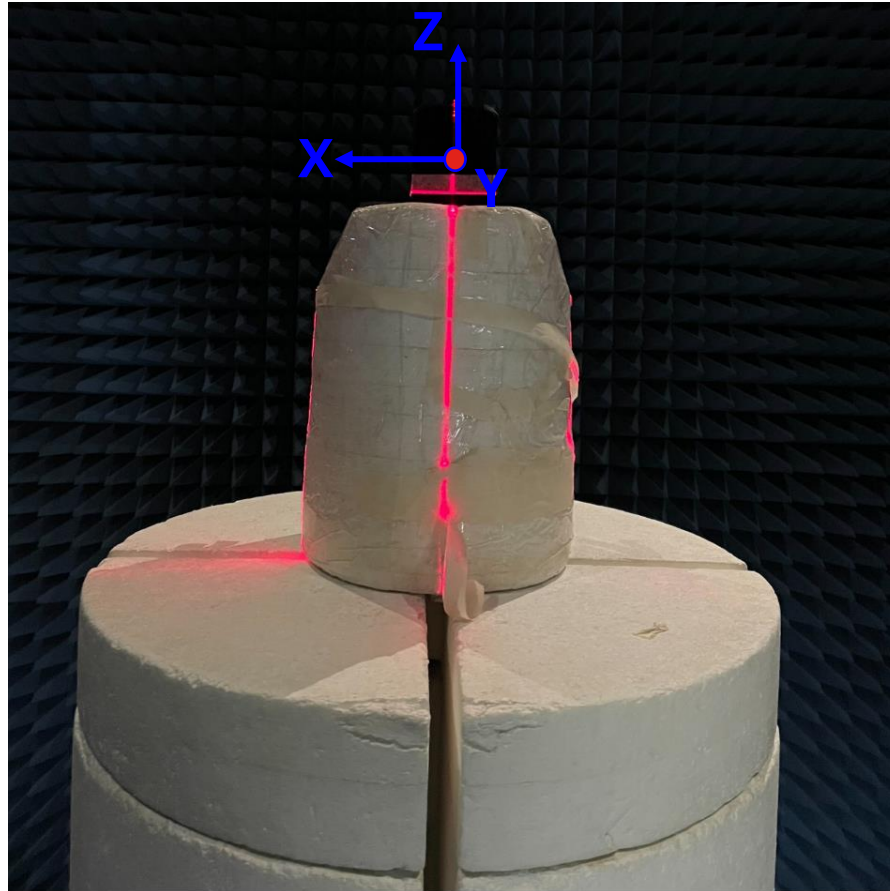


OTA Chamber Configuration °

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.

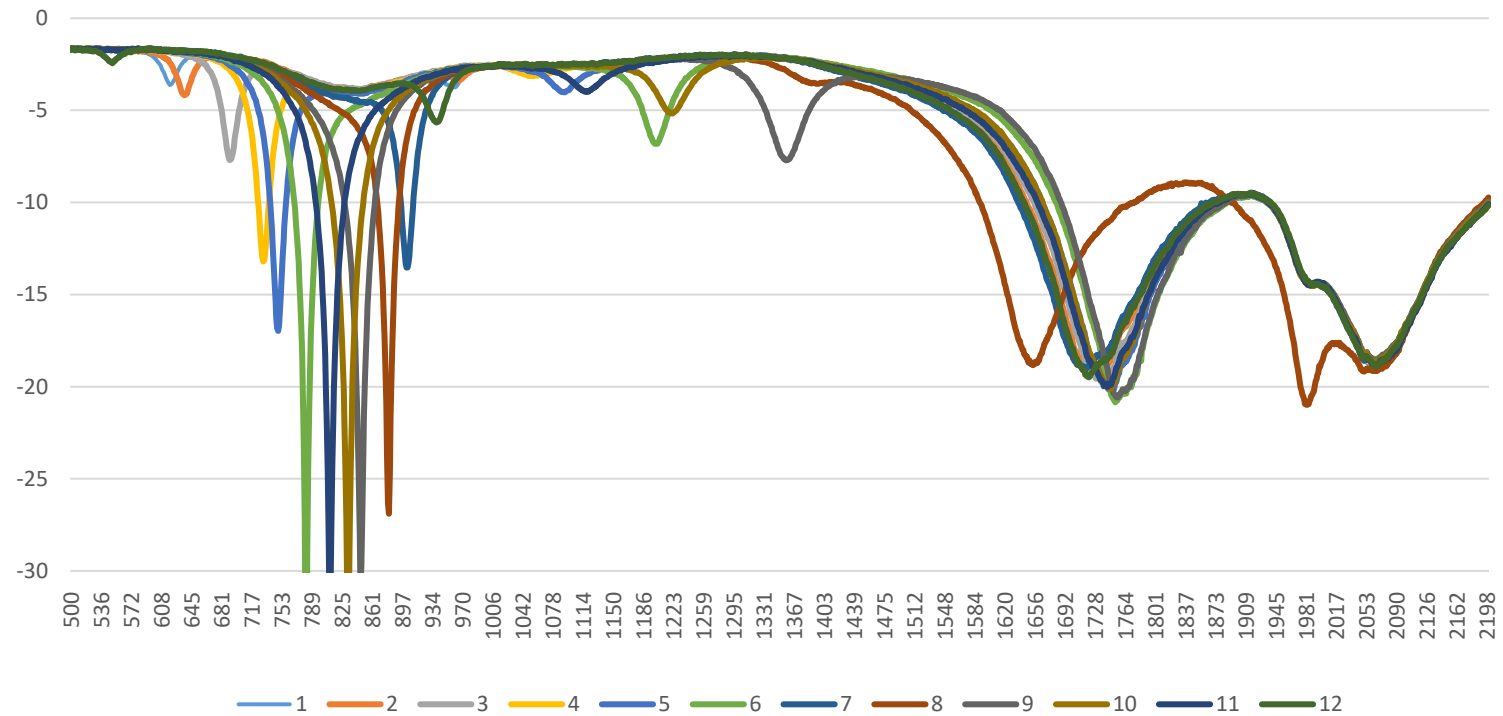
DUT Setup



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

Return Loss

S11



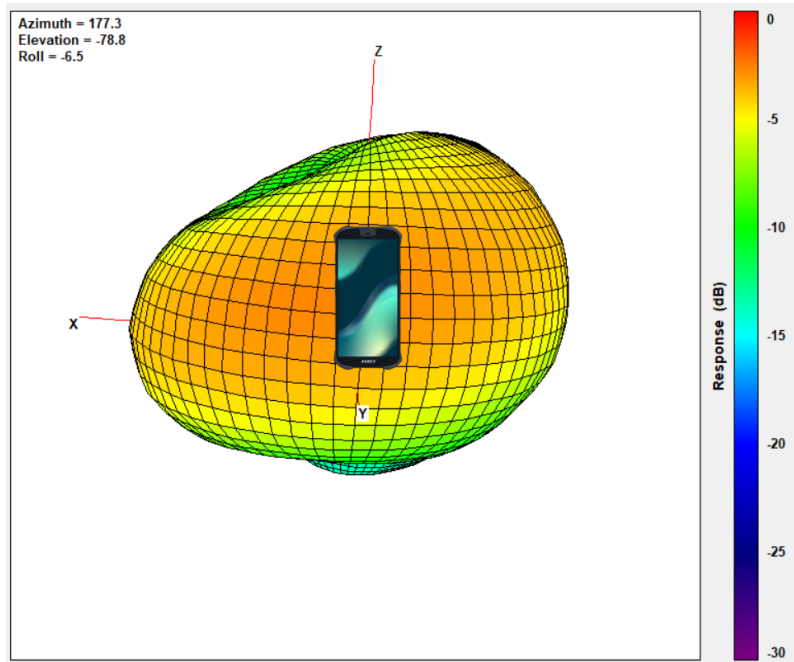
Efficiency & Peak gain

ANT0		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
600	0.93	-22.00
604	1.29	-19.01
608	1.78	-18.50
612	2.26	-15.70
616	2.68	-15.90
620	3.08	-15.31
624	2.69	-16.00
628	2.01	-18.50
632	1.51	-18.88
636	1.93	-17.45
640	2.55	-16.16
644	3.10	-15.91
648	3.67	-15.03
652	4.31	-13.11
716	9.90	-6.20
729	14.32	-6.90
734	14.31	-5.91
740	13.22	-4.65
746	15.00	-4.20
748	15.01	-4.29
751	15.88	-3.80
756	15.22	-3.99
777	19.36	-2.84
782	21.61	-2.54

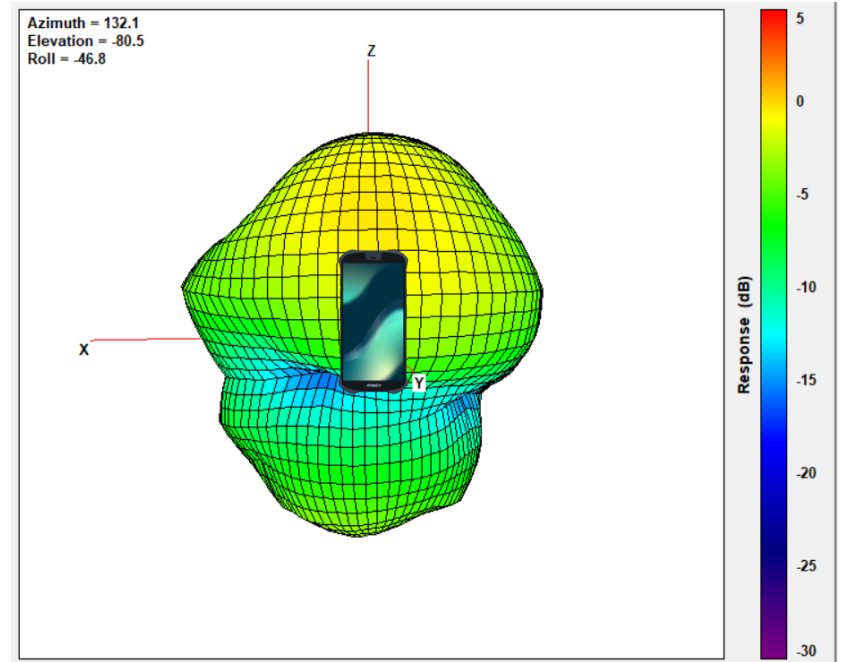
ANT0		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
787	22.24	-2.12
791	22.18	-2.24
806	18.00	-2.50
821	24.68	-2.07
824	25.50	-1.88
836	24.80	-1.87
849	24.81	-1.85
862	19.56	-2.83
869	22.37	-2.13
880	22.80	-2.10
894	15.38	-2.70
925	8.80	-8.30
940	9.53	-6.70
960	2.81	-12.00

ANT0		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
1710	38.09	0.08
1730	37.07	-0.39
1750	39.10	-0.31
1755	40.08	-0.21
1770	41.74	0.13
1785	42.63	0.42
1805	38.60	-0.10
1840	37.38	0.54
1850	39.09	0.78
1880	41.26	1.85
1900	39.54	2.33
1910	37.81	2.48
1920	34.69	2.37
1930	31.90	2.05
1950	29.13	0.91
1960	29.90	0.09
1980	29.45	-0.63
1990	29.15	-0.64
2010	29.06	-0.81
2018	29.80	-0.82
2025	30.33	-0.72
2110	33.43	0.58
2140	32.84	0.25
2155	30.85	-0.06
2170	28.11	-0.44
2200	27.5	-0.51

Radiated Pattern at maximum gain



836 MHz



1910 MHz



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