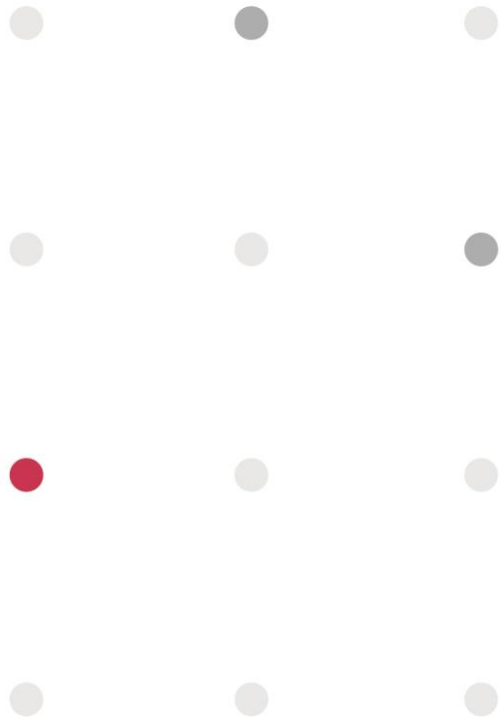


PSA

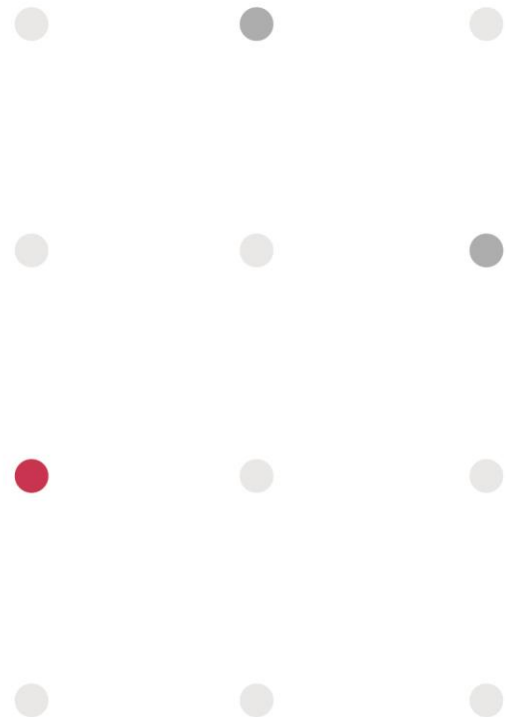
佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.



PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



NOKIA_G-1425G-A

Presented by
Ken Chen

INPAQ Technology Co., Ltd.

2022/07/09

OUTLINE

1. Antenna Information

2. Antenna Quality

3. Antenna DG for 2T1S

4. Each Antenna Peak Gain & Angle

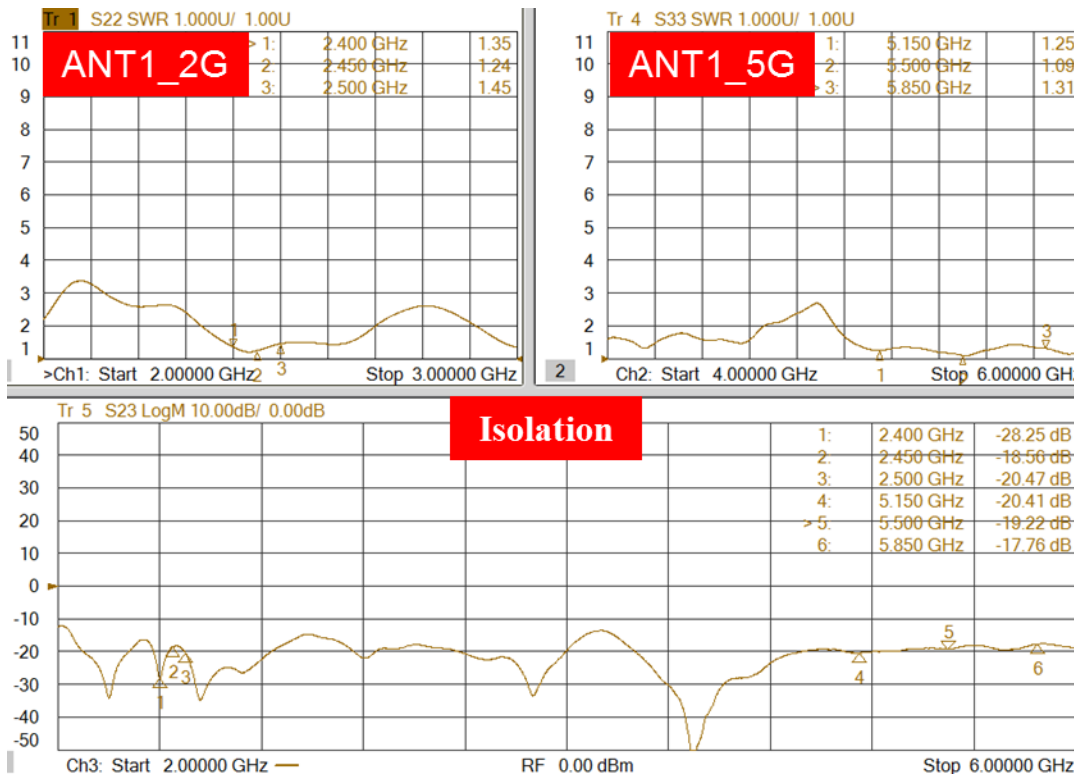
1. Antenna Information

P/N : ANT 1 (RFDPA171720IMLB3C1)

P/N : ANT 2 (RFDPA171722IMLB7C1)

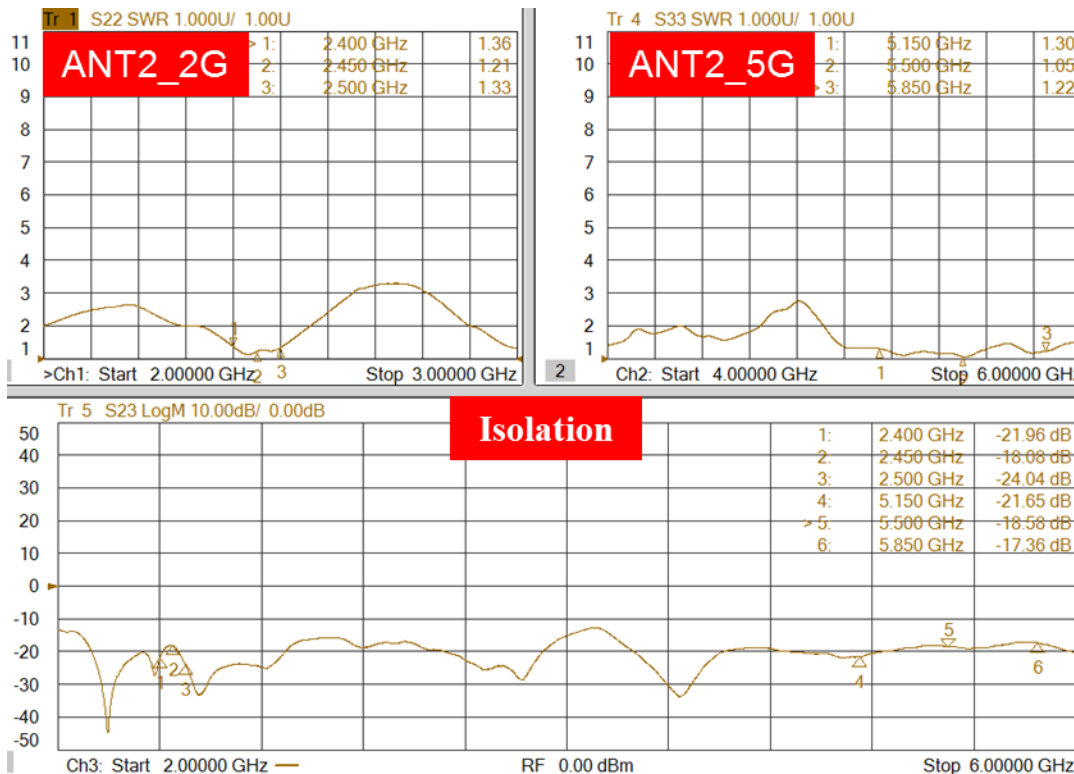
2. Antenna Quality

All antennas are in-band test.



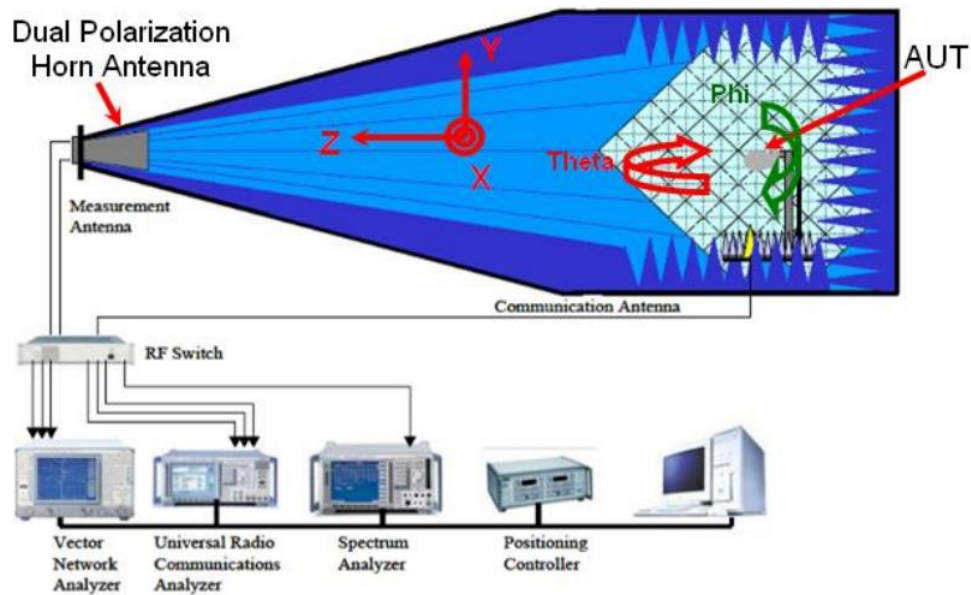
2. Antenna Quality

All antennas are in-band test.



2. Antenna Quality

The gain pattern is measured in INPAQ's far-field chamber. DUT is placed on the table of rotator, a standard horn antenna and vector network analyzer is used to collect data.



Network analyzer: E5071C for antenna passive test
Cal. Date: 2022/5/20
Next cal. Date: 2023/5/19

3. Antenna DG for 2T1S

The formula of direction gain (DG) = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2]$ dBi

Frquency (Mhz)	Polarization	Gain(dBi)		DG(dBi)	Angle		Gain(dBi)	
		Ant 1	Ant 2	2T1S	theta	phi	Ant 1	Ant 2
2400	Phi	-5.55	-4.76	-5.50				
	Theta	3.72	3.87	5.53	148	122	1.06	3.77
2450	Phi	-2.61	-5.63	-3.77				
	Theta	4.57	4.67	5.82	78	346	2.93	2.68
2500	Phi	-3.80	-8.05	-4.71				
	Theta	4.29	4.05	5.95	68	308	3.42	2.43
5150	Phi	-9.06	-8.95	-8.53				
	Theta	3.69	3.53	5.80	58	292	2.06	3.46
5550	Phi	-6.95	-8.15	-6.74				
	Theta	4.15	3.94	5.91	126	66	1.71	3.94
5850	Phi	-5.82	-4.79	-3.03				
	Theta	4.70	4.39	5.51	8	282	4.16	0.43

4. Each Antenna Peak Gain & Angle

Freq. (MHz)	Theta Pol.			
	Angle(θ)	Angle(ψ)	Ant 1 (G1)	Ant 2 (G2)
2400	100	28	3.72	
	152	126		3.87
2450	152	126		4.67
	8	202	4.57	
2500	102	32	4.29	
	114	58		4.05
5150	60	296		3.53
	52	298	3.69	
5550	114	56	4.15	
	126	66		3.94
5850	132	88	4.7	
	40	268		4.39

Thank you

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