

品名：RFDPA191723IMTB301

1. Explanation of part number :

RF	DPA	1917	23	I	M	T	B	3	01
Type Code	Product Code	Dipole Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1310 Length 135.7mm, Width φ 10.0mm	2 digits for cable length e.g.: 00 None Cable	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5 GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.x GHz tri-band N: NFC T:LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	698~960 / 1710~2690 MHz
Gain	Low @ 1.9 dBi Hight @ 5.1 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Operation Temperature	-20°C ~ +65°C

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



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SCALE : N/A UNIT : mm
 DRAWN BY : 邱登鈺 CHECKED BY : 詹惠雯
 DESIGNED BY : 顏耀祺 APPROVED BY : 陳振榮

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3. Antenna Drawing :

ELECTRICAL
 Frequency : 698~960 /
 1710~2690 MHZ

INDEX PART NO.	DESCRIPTION	MATERIAL	QTY
A	Antenna Down base	PC : White	1
B	Antenna Up Base	PC : White	1
C	Rivet	POM : White	2
D	Antenna Cover	PPEE : White	1
E	PCUB	FR4 : Black	1
F	Coaxial Cable	TPPEX Compatible : Gold Coaxial Cable Ø1.13 : Gray	1
G	Connector		1

REVISION	DESCRIPTION	DATE	OWNER
1	New drawing release	2021/05/14	PIPI

SELECT	A	B	C	D
<mm	0.05	0.1	0.2	0.5
6~30mm	0.08	0.2	0.5	1.5
30~120mm	0.12	0.3	0.8	2.0
120~315mm	0.25	0.5	1.2	3.0
315~1000mm	0.3	0.8	2.0	5.0
1000~2000mm	0.5	1.2	3.0	8.0

※Mark Dymark, Focused inspection dimensions
 ※標記 記號者, 為重點檢尺寸

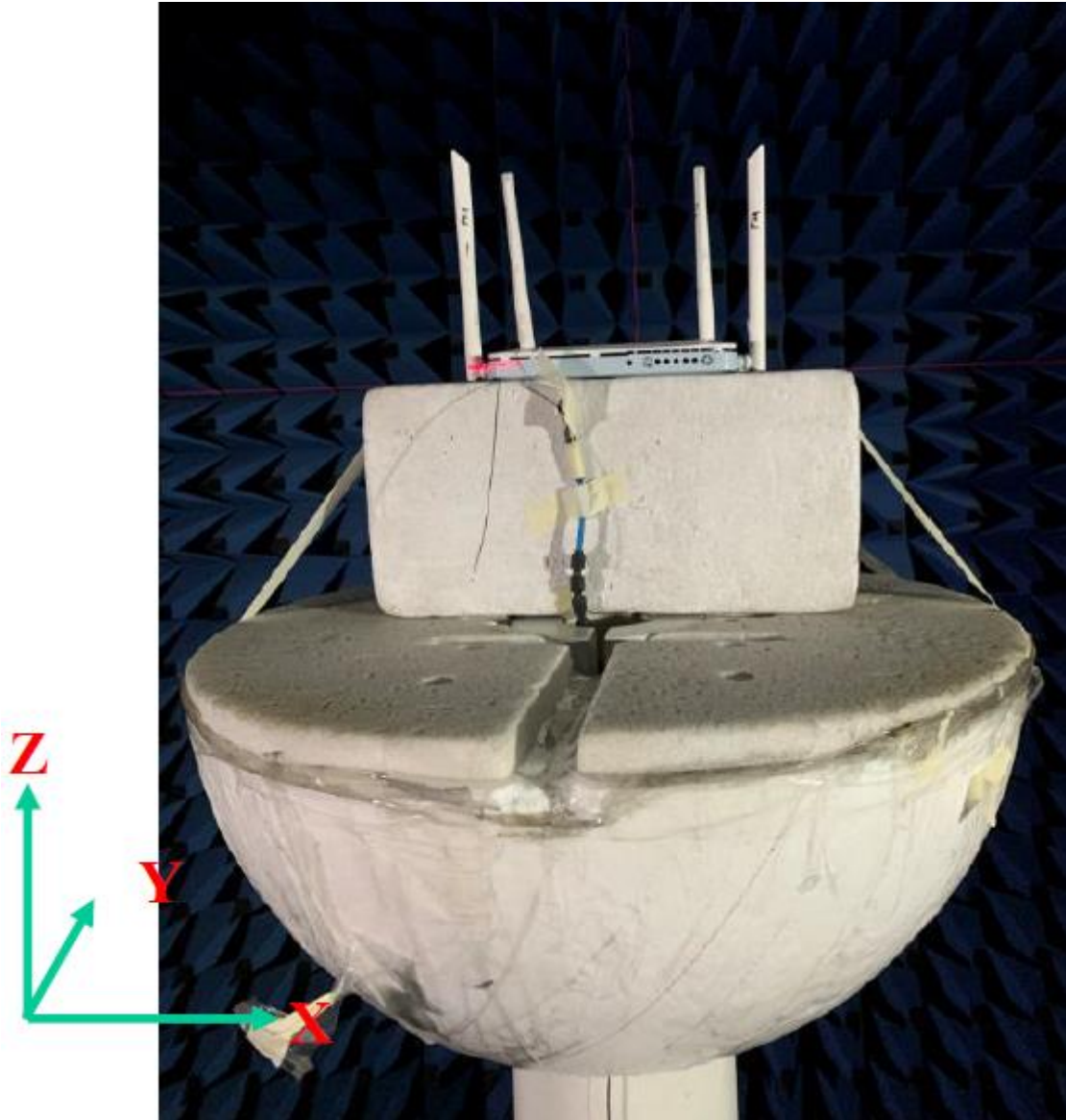
CAO GENERATED DRAWING, DO NOT MANUALLY UPDATE	3RD ANGLE	PART NO.: RFDPA191723IMTB301
DRAWN	SCALE: 1:1	UNIT: MM
CHECKED	DWG No.:	SHEET 1 OF 1
APPROVED		


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4. Performance Report :

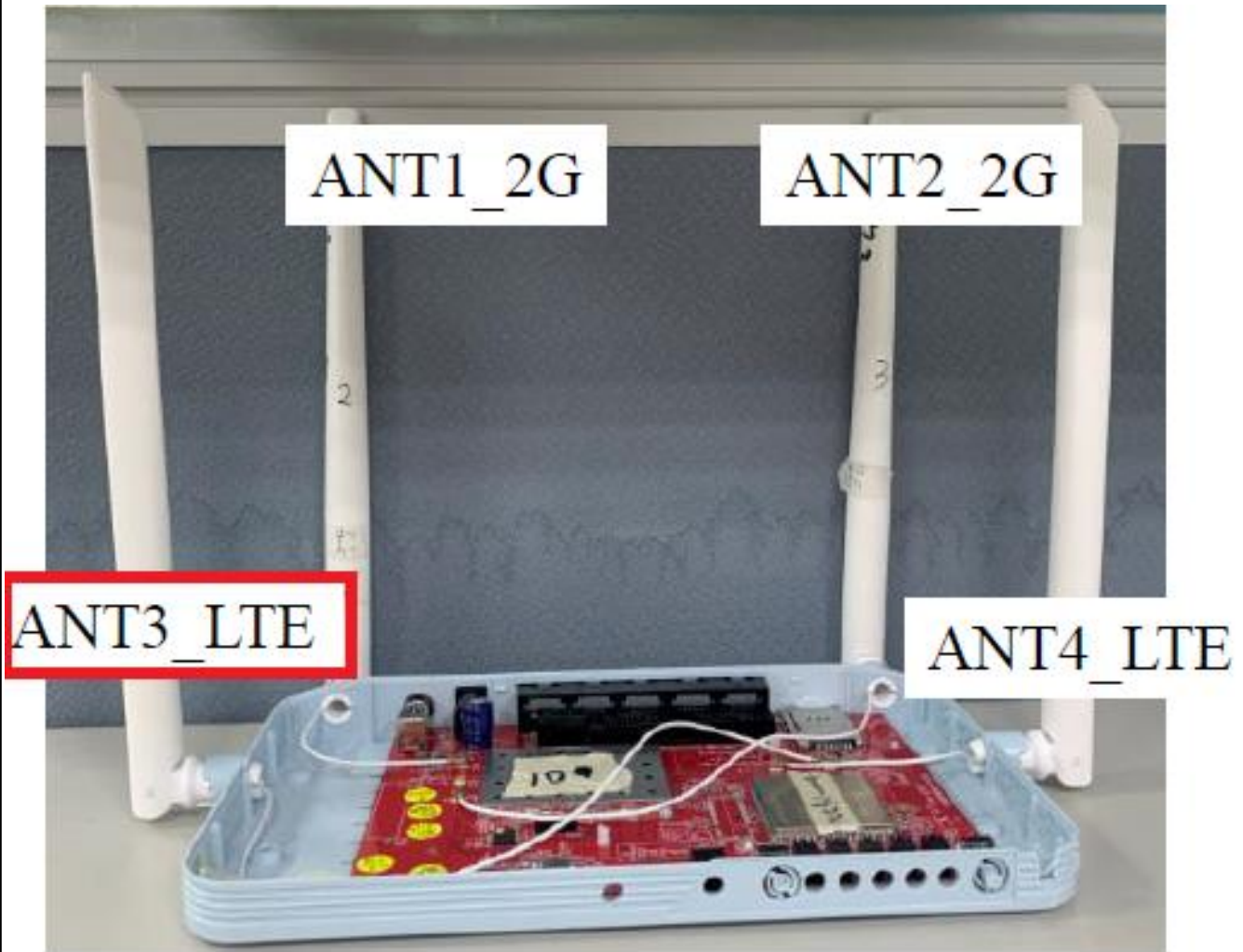
Test Report


Experimental Setup



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ANGLES=N/A	HOLEDIA=N/A	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
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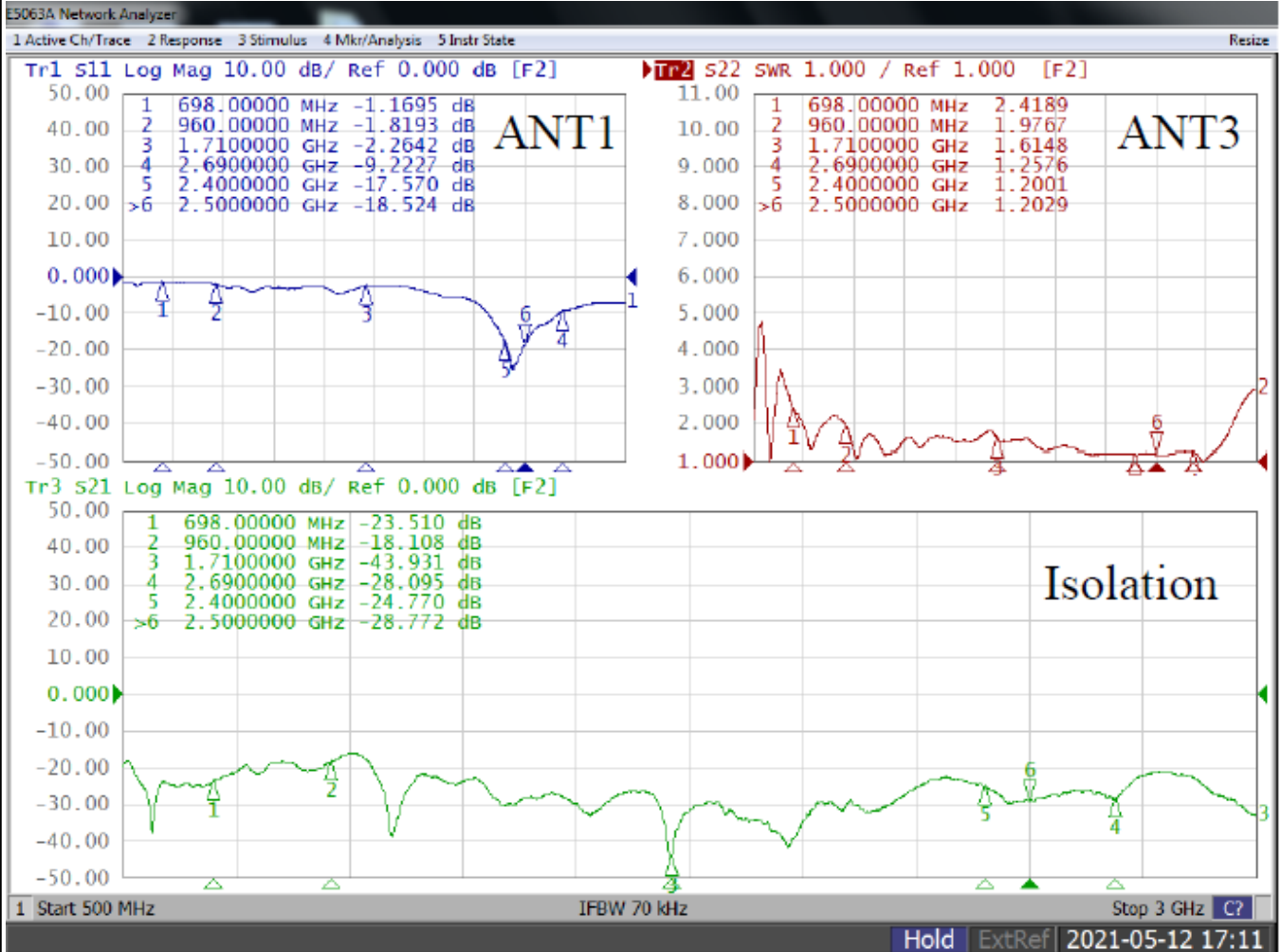
■ Antenna Solution Detail




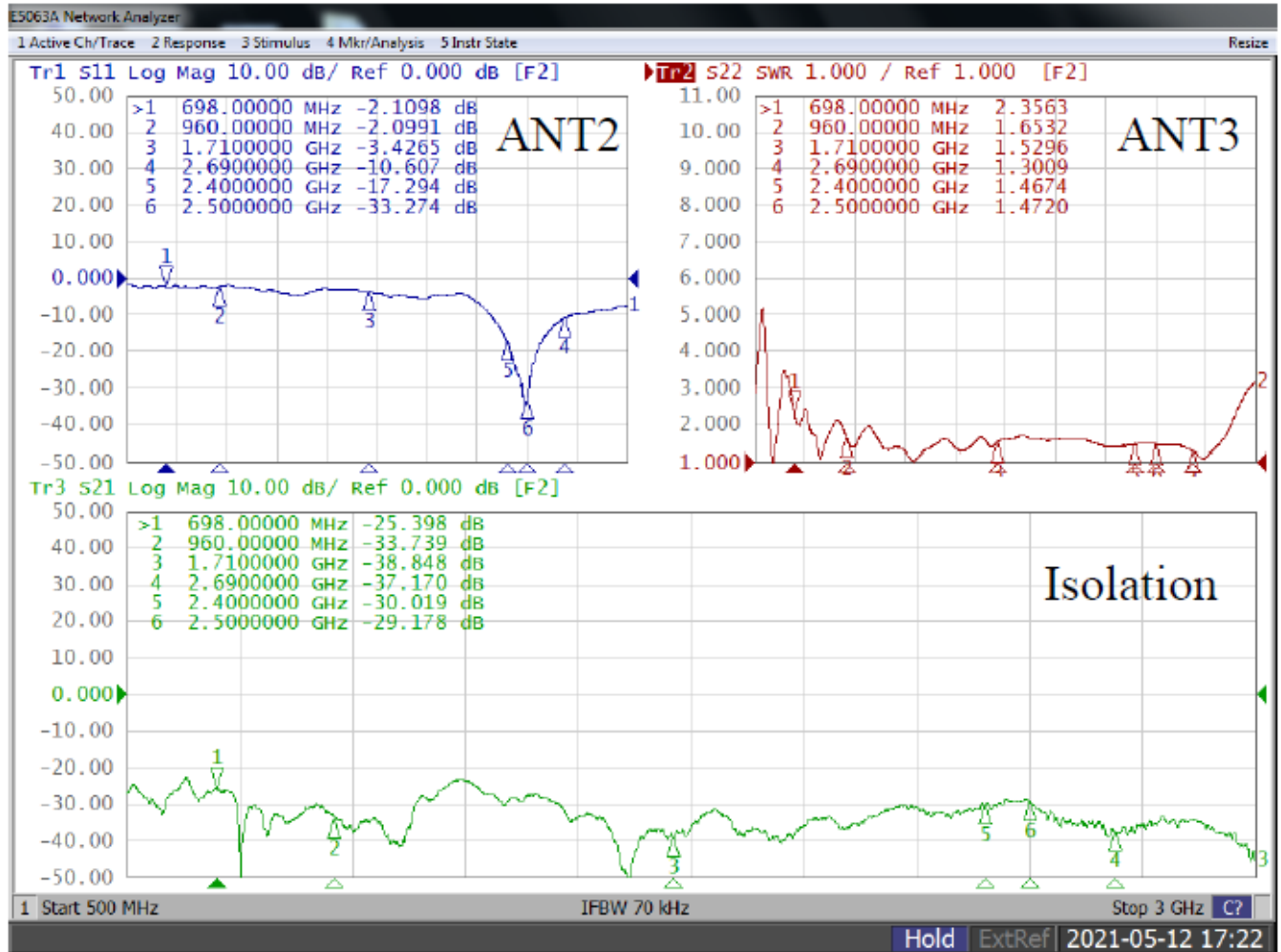
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Electrical characteristics

Return Loss & Isolation



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 ANGLES=N/A HOLEDIA=N/A



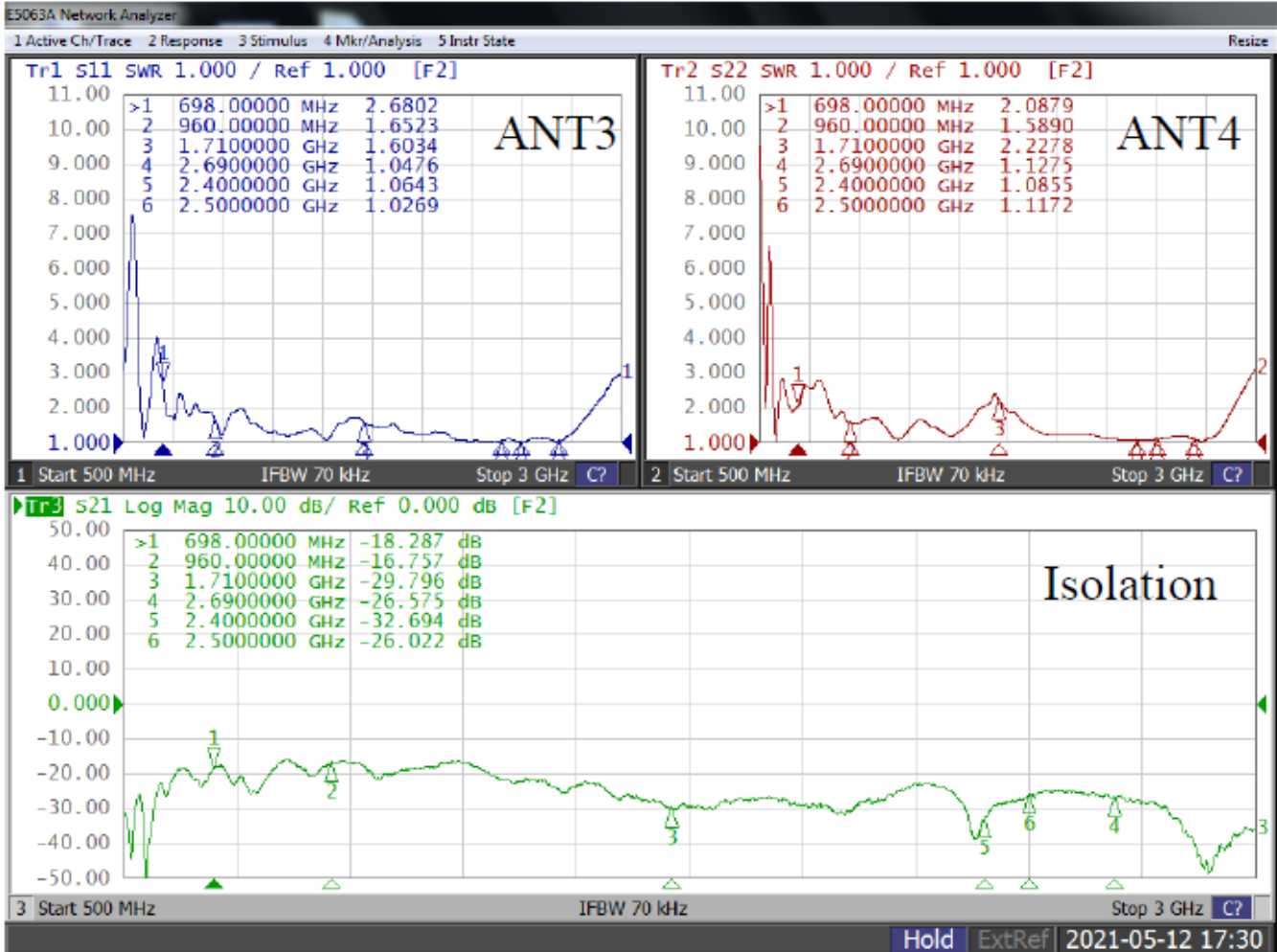
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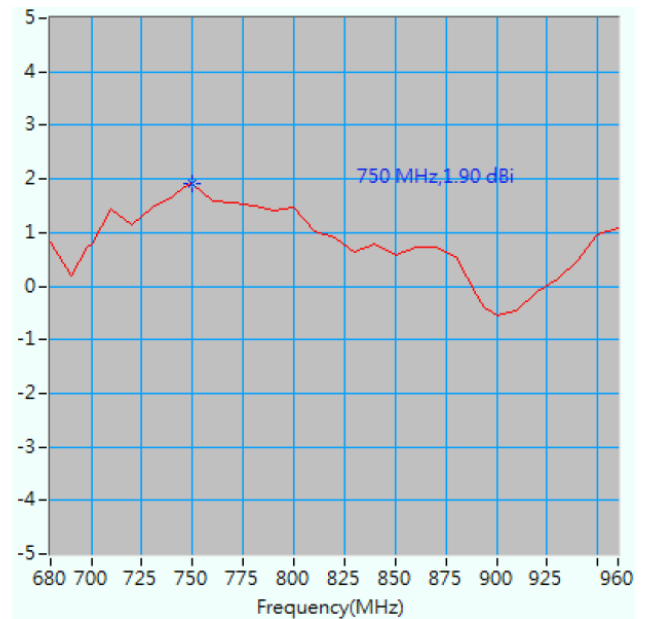
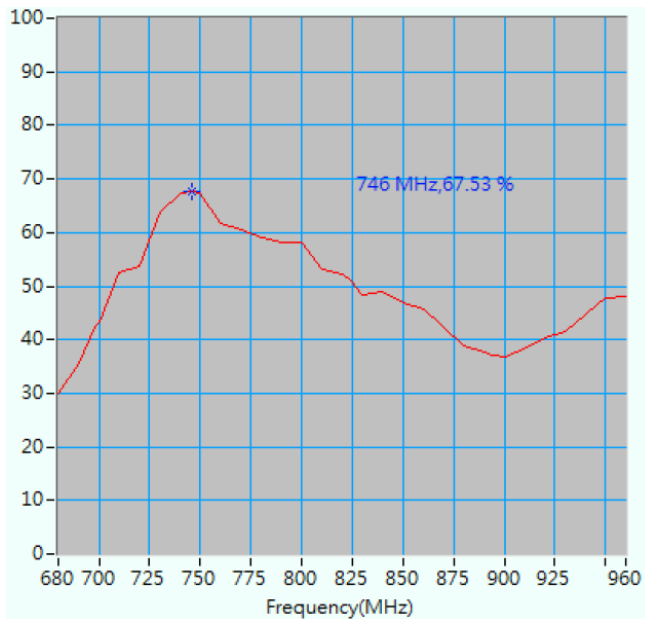
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Antenna Efficiency and Peak Gain

ANT3_Low



Maximum Efficiency at 746 MHz : 67.5 %

Maximum Peak Gain at 750 MHz : 1.9 dBi

ANT3		
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
698	42.55	0.72
750	67.38	1.90
800	58.07	1.48
850	46.94	0.59
900	36.84	-0.54
960	48.08	1.08

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A UNIT : mm
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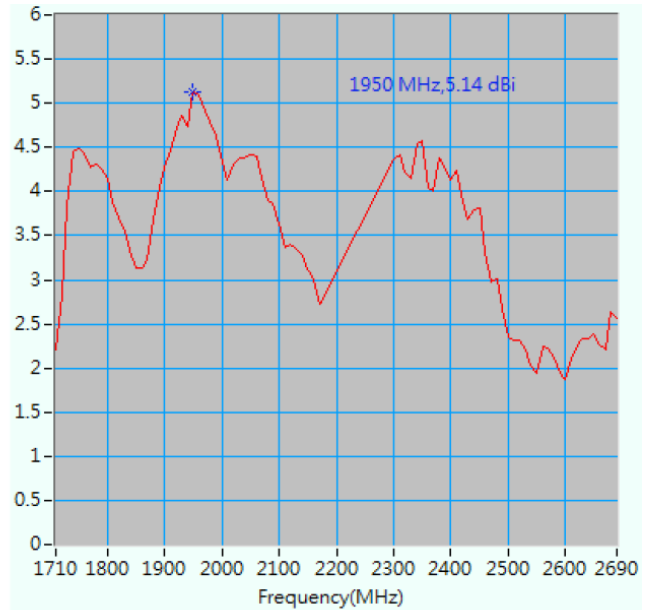
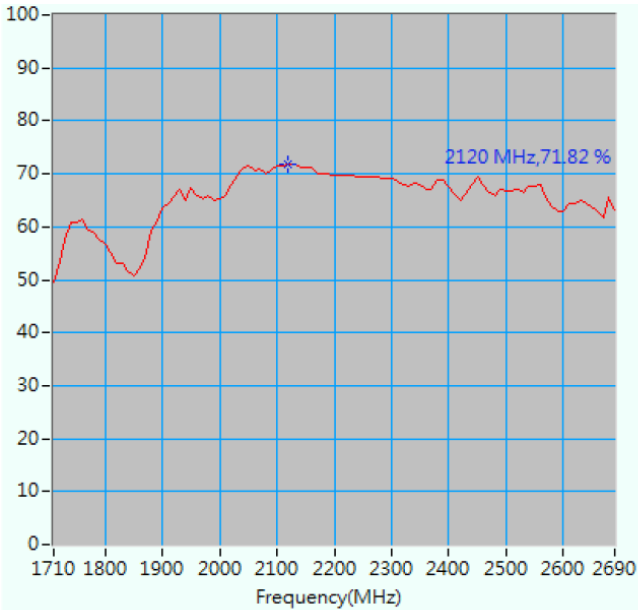
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ANT3_Hight



Maximum Efficiency at 2120 MHz : 71.8%

Maximum Peak Gain at 1950 MHz : 5.1dBi

ANT3		
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)
1710	49.52	2.21
1800	56.65	4.15
1900	63.45	4.27
2000	65.22	4.34
2100	71.57	3.63
2300	69.16	4.36
2400	67.55	4.14
2500	66.84	2.34
2600	62.82	1.87
2690	63.11	2.57

UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A		 INPAQ TECHNOLOGY CO., LTD.	
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