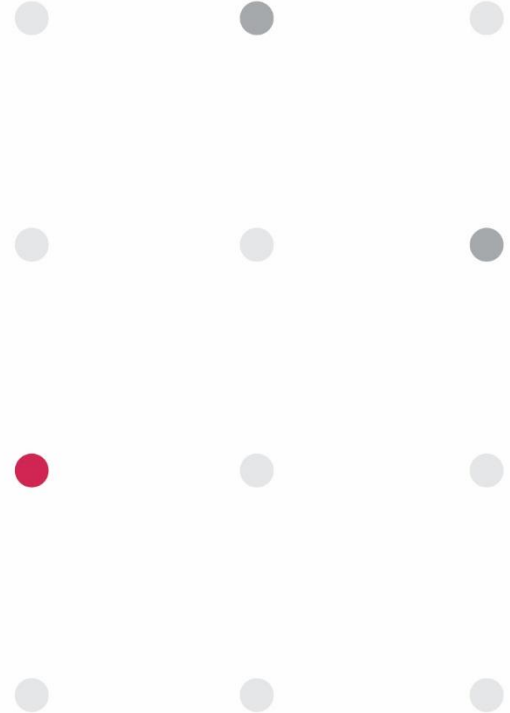


PSA

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.



PAD 8"

Presented by
YiAn Nien, RFRD Department

INPAQ Technology Co., Ltd.

Last updated in 11.02, 2023

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Revised History

Released Date	Version	Record
Sep. 01 th , 2023	0.0	Initial report
Nov. 02 th , 2023	0.1	Finetune

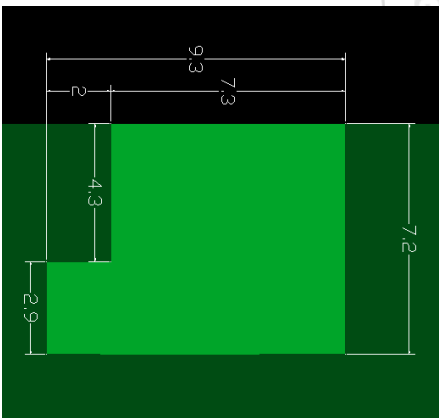
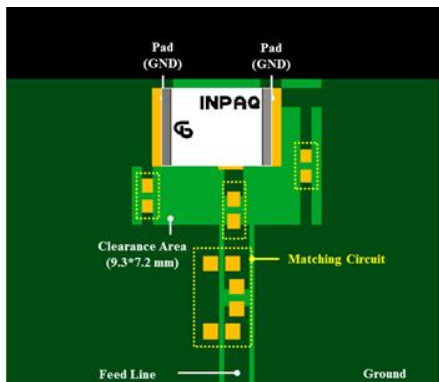
Product / Antenna Placement

Product / Antenna Overview



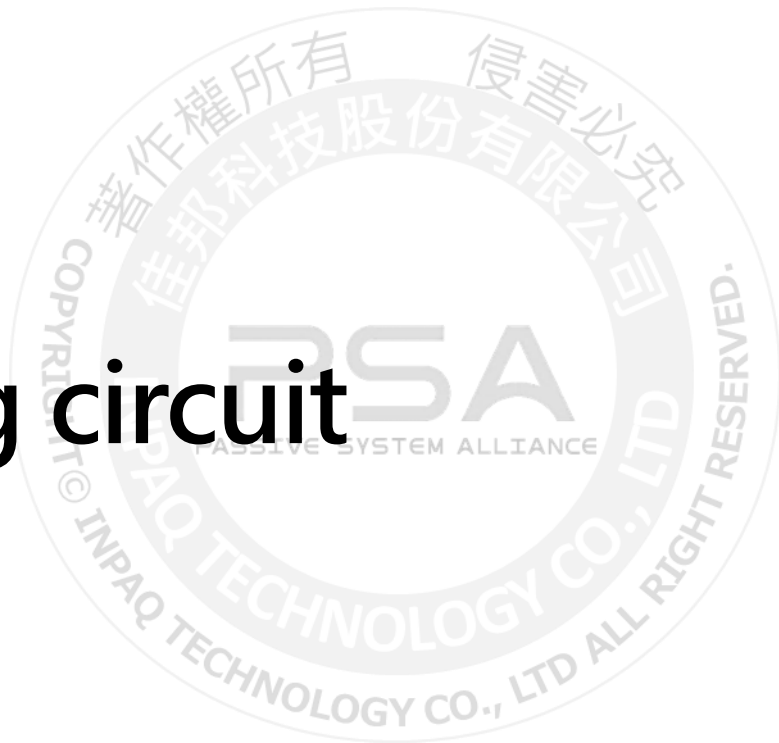
Antenna	Frequency (MHz)	Test Cable
Chip	2400-2500 5150-5850	phi=1.13mm length=70mm IPEX connector

Product / Antenna Overview

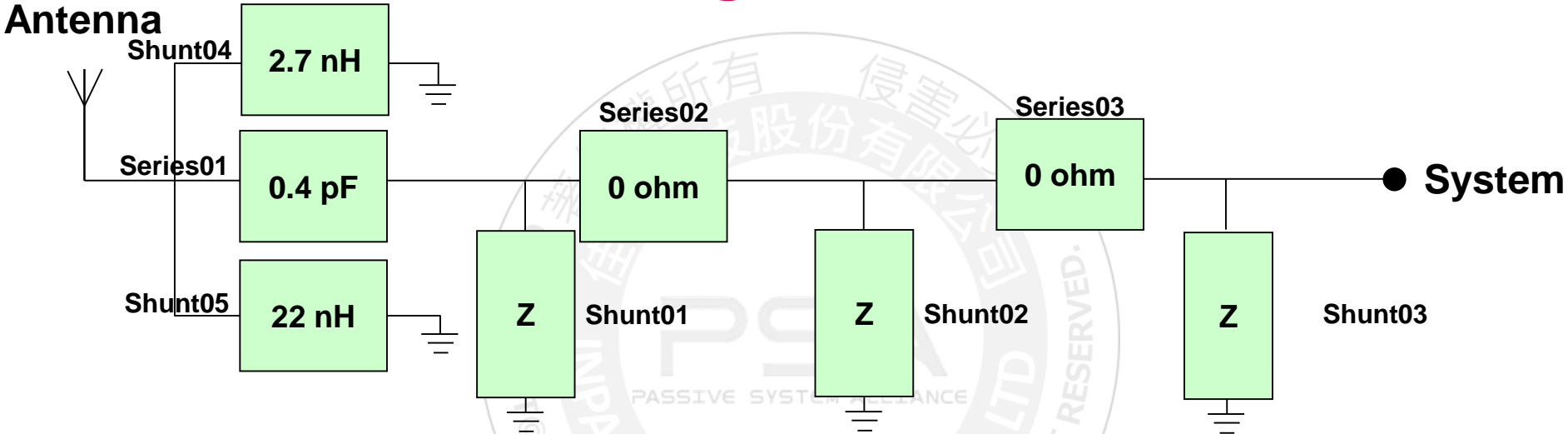


Frequency	2400-2500 5150-5850
Ant. Type	PIFA
Model Name	N722 8" PAD
Brand Name	MIO
Mfr. Address	INPAQ Technology Co., No. 11, Keyi St., Jhunan Township, Miaoli County350402 , Taiwan (R.O.C.)

Matching circuit



Fine Tuned Matching

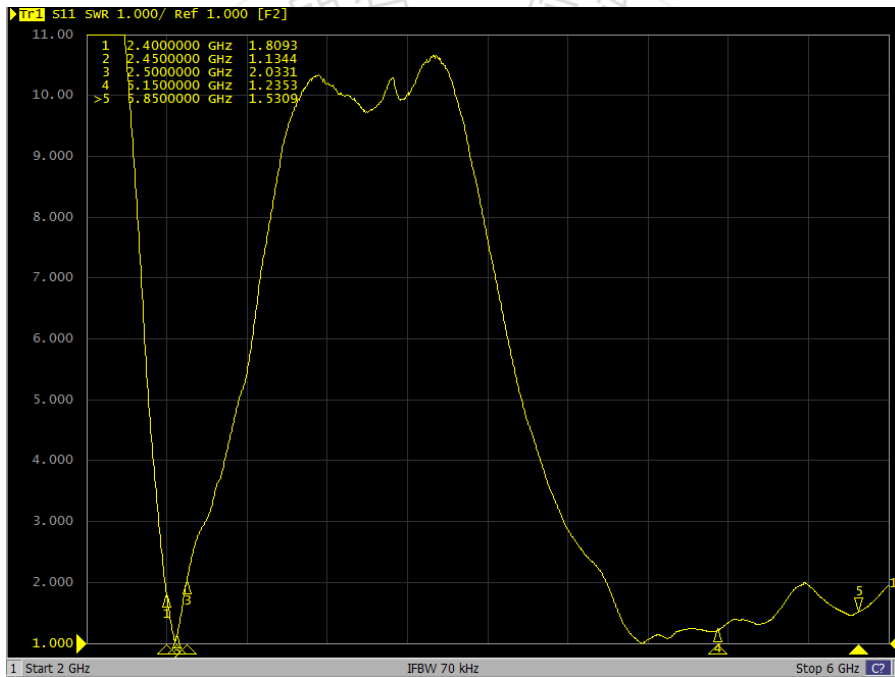


Location	Description	Vendor
Series01	0.4pF	Murata
Series02	0 ohm	Murata
Series03	0 ohm	Murata
Shunt01	N/A	N/A
Shunt02	N/A	N/A
Shunt03	N/A	N/A
Shunt04	2.7nH	Murata
Shunt05	22 nH	Murata

Results



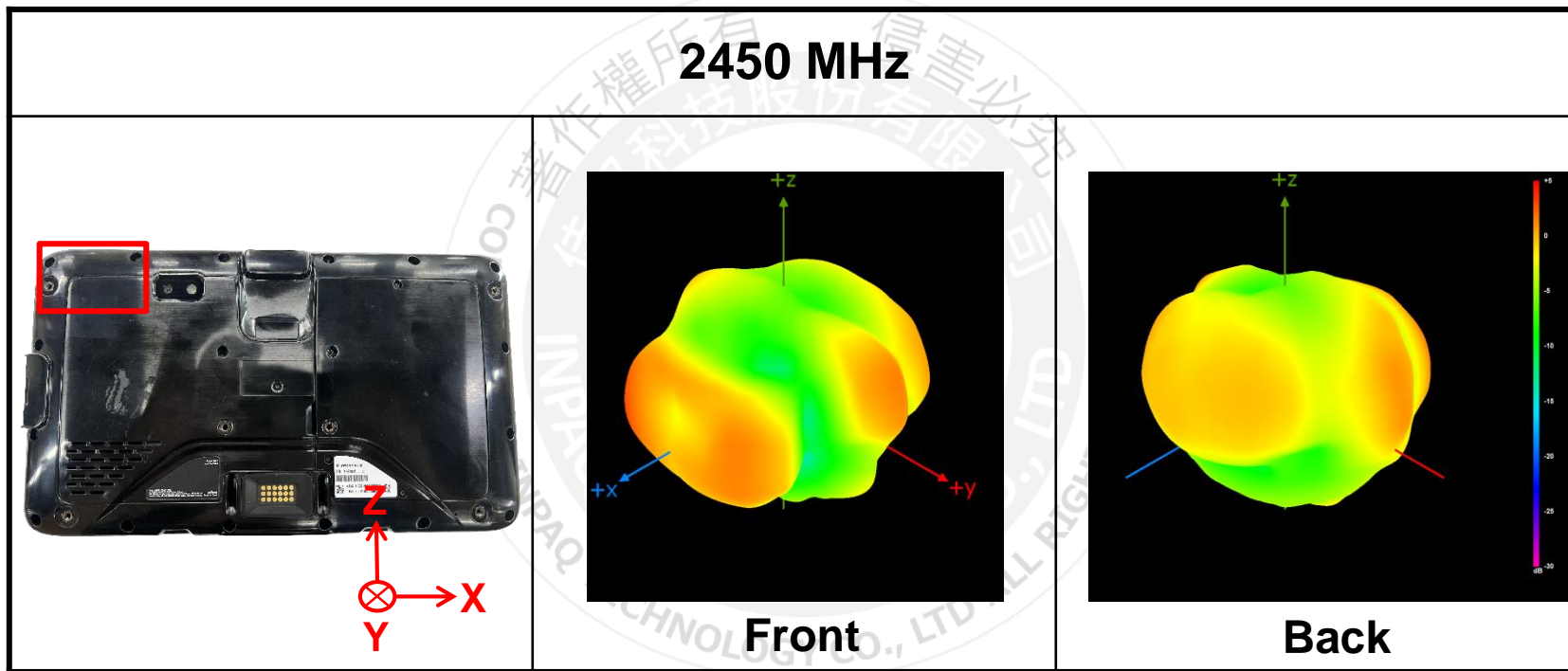
VSWR



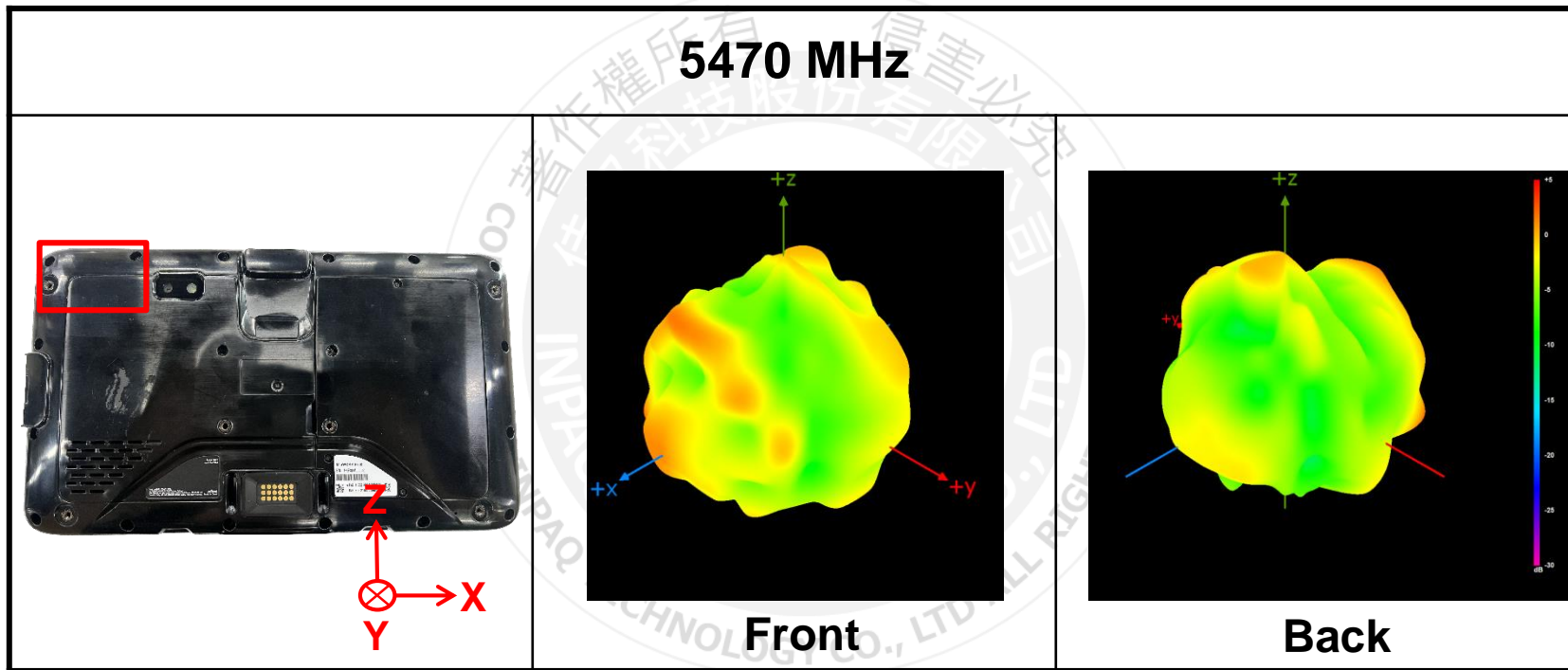
Efficiency and Peak Gain

Fine Tuned		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	0.27	32.19
2450	0.32	40.09
2500	0.44	33.89
5150	-0.74	26.11
5470	-0.30	20.51
5850	0.53	22.93

3D Radiation Pattern



3D Radiation Pattern

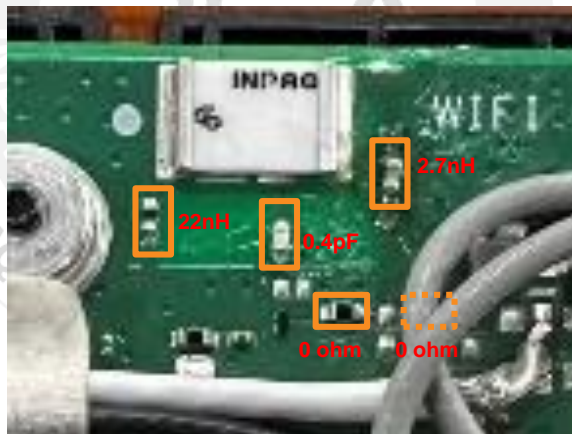


Conclusions



Conclusions

1. The chip antenna efficiency is about 20-40 %.
2. The Peak Gain of the chip antenna is about -0.74to 0.53 dBi.
3. Please follow the matching circuit shown below.



THANK YOU FOR YOUR ATTENTION

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