

Sample specification

Manufacturer:WILLSEA LIMITED
Manufacturer add.:Room501, BuildingA1, Yuanchuang Space Xuexiangyuan,
No.33 Zhonghao 2nd Road, Bantian Street, Longgang District, Shenzhen,
China

client:	
Project name:	JS811
Material class:	R-BT ANT
edition:	V1.0
date:	2025.01.09

catalogue

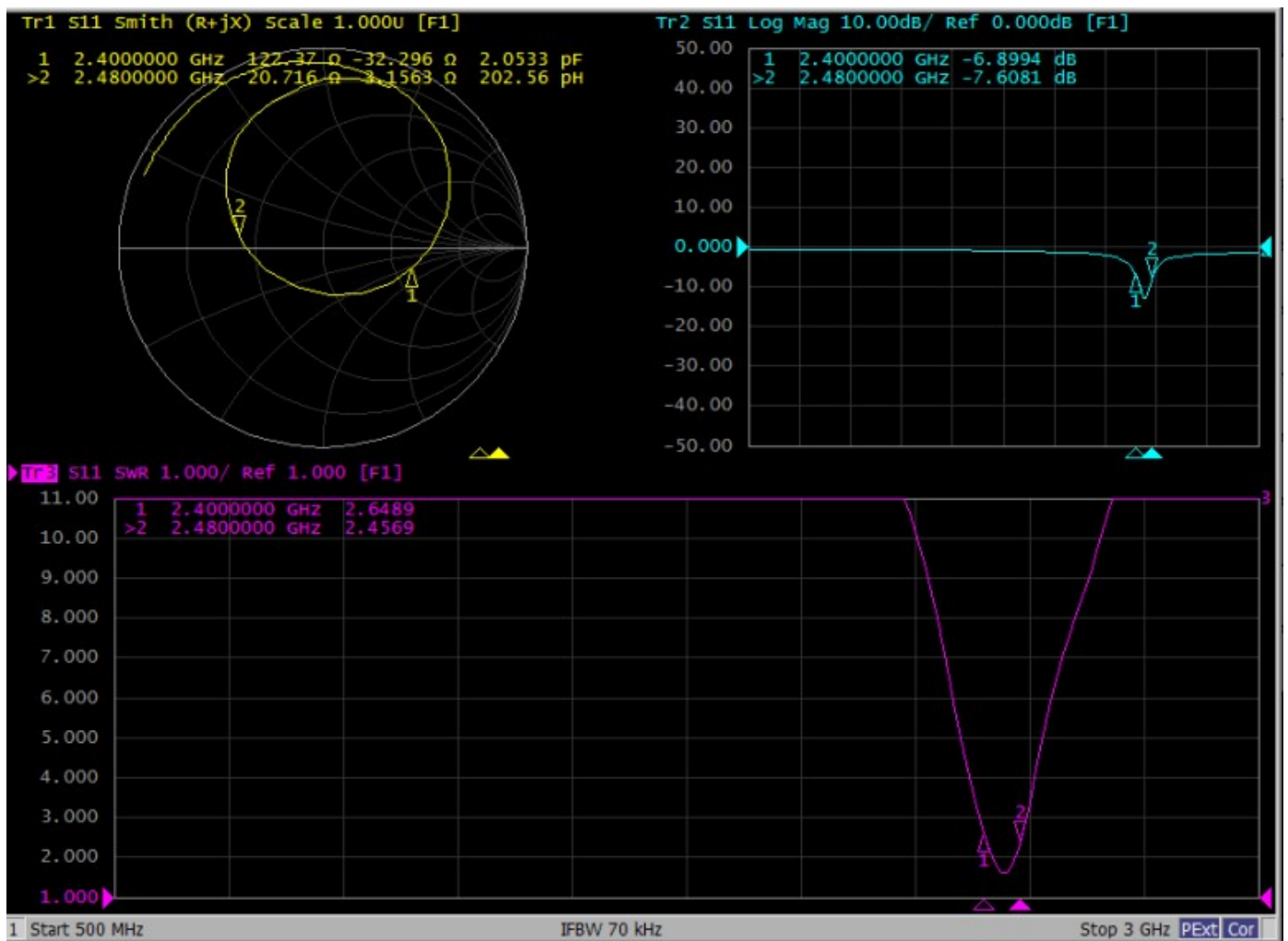
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Change record field			
Compile/change date	Reason for change	Change content	edition
2025. 01. 09	Initial release	Initial release	V1. 0

1: Passive test report



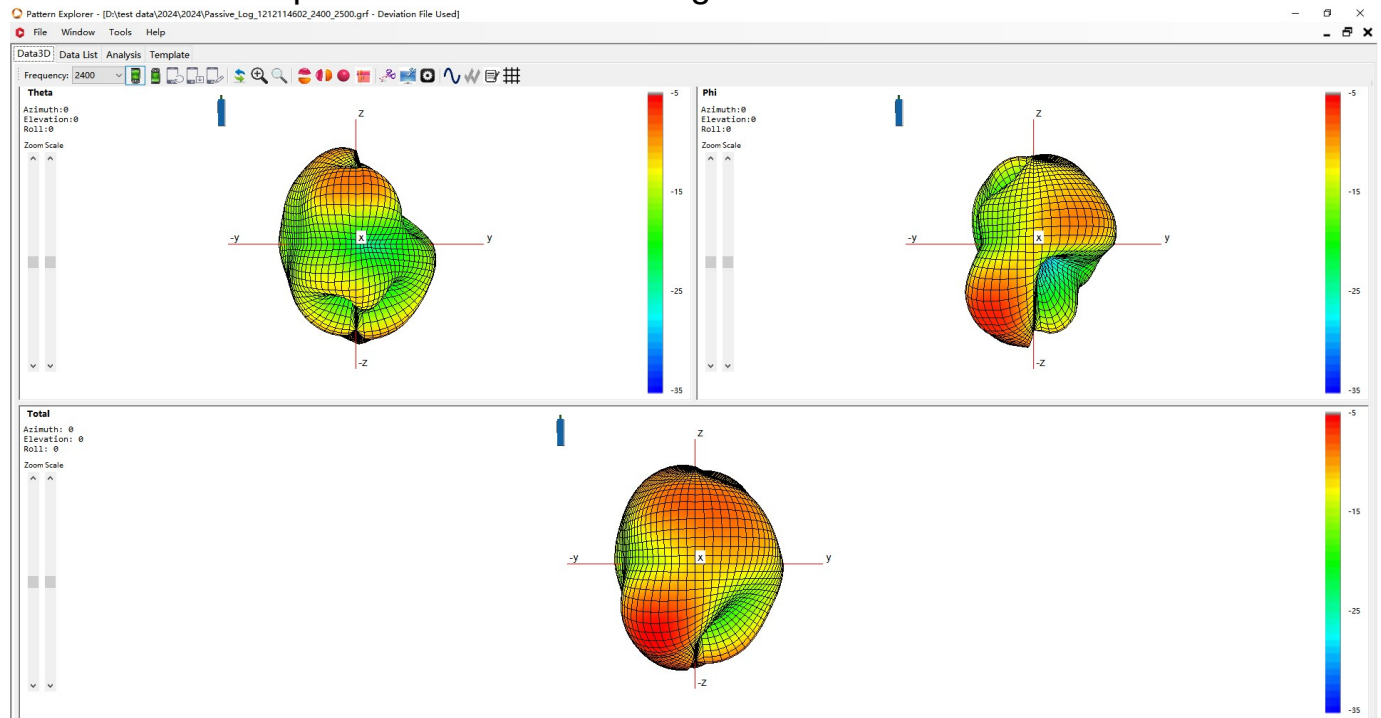
Agilent E5071C



Antenna passive efficiency:

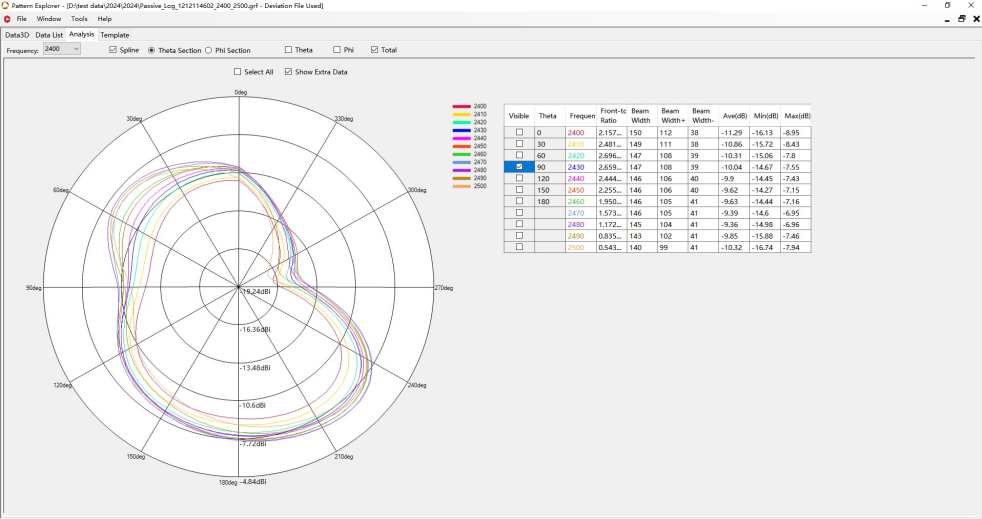
L: Free space; PIFA			
Frequency MHz	efficiency%	efficiency(dB)	gain(dBi)
2400	10.9%	-9.63	-5.15
2410	11.6%	-9.36	-5.18
2420	12.3%	-9.12	-5.37
2430	13.5%	-8.69	-5.13
2440	13.8%	-8.61	-5.10
2450	14.7%	-8.32	-4.91
2460	14.8%	-8.31	-5.20
2470	13.2%	-8.79	-5.94
2480	12.0%	-9.23	-6.64
Mean value	14.5%	-8.40	-3.97

Left ear antenna passive 3D direction diagram:

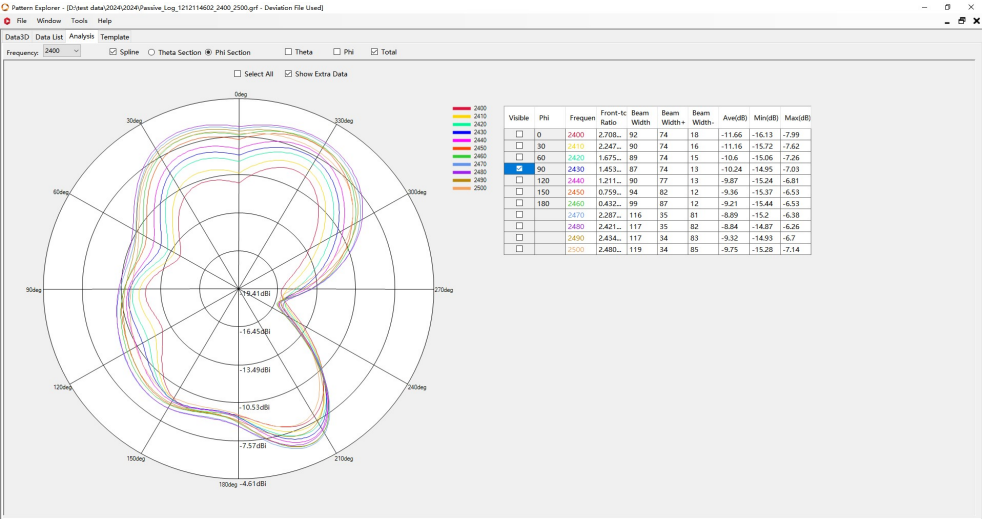


Left ear antenna passive 2D pattern :

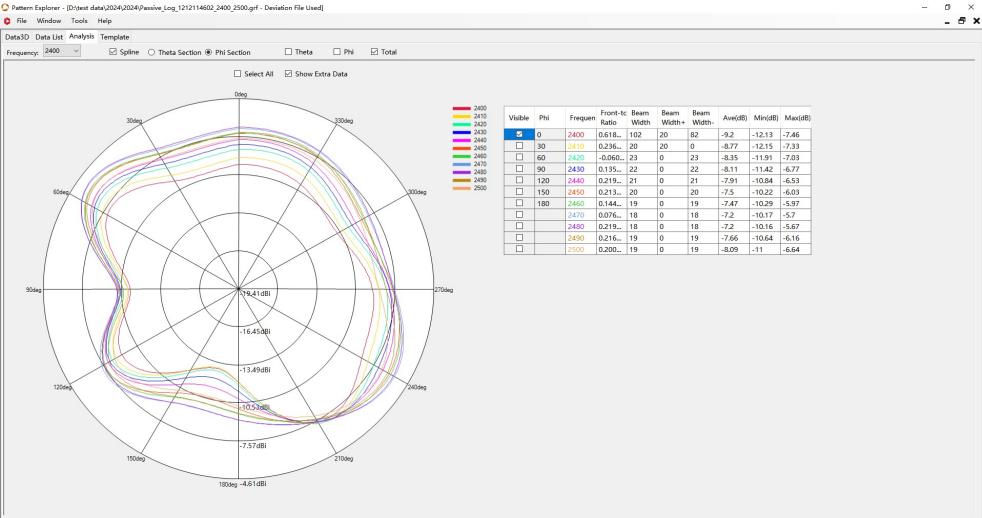
Theta=90. 00deg



Phi=90. 00deg



Phi=0. 00deg



2: OTA parameters

3	Channel	TRP	TIS	TRP	TIS
R	CH 0	0.5	-82.3	-5.4	-77.6
	CH 39	4.2	-85.8	-5.1	-79.6
	CH 78	5.2	-86.0	-5.9	-79.3

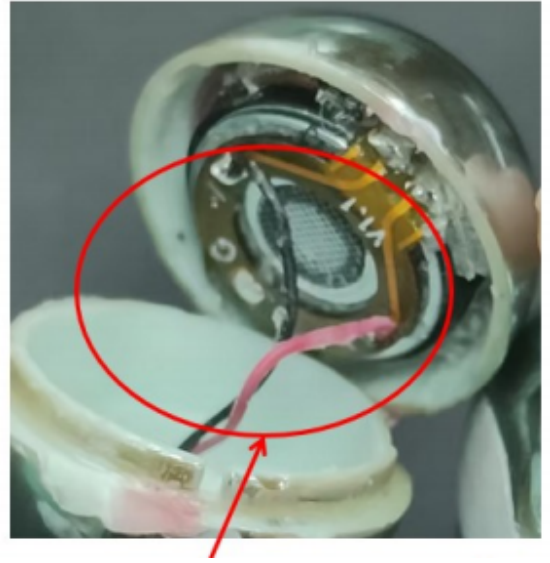
2	Channel	TRP	TIS	TRP	TIS
R	CH 0	-0.1	-80.2	-4.8	-77.3
	CH 39	3.2	-83.5	-4.5	-78.8
	CH 78	4.2	-84.7	-5.7	-78.3

6	Channel	TRP	TIS	TRP	TIS
R	CH 0	0.4	-81.0	-5.9	-77.4
	CH 39	2.8	-84.1	-5.8	-79.3
	CH 78	4.5	-85.1	-5.9	-79.5



OTA Standard Chamber

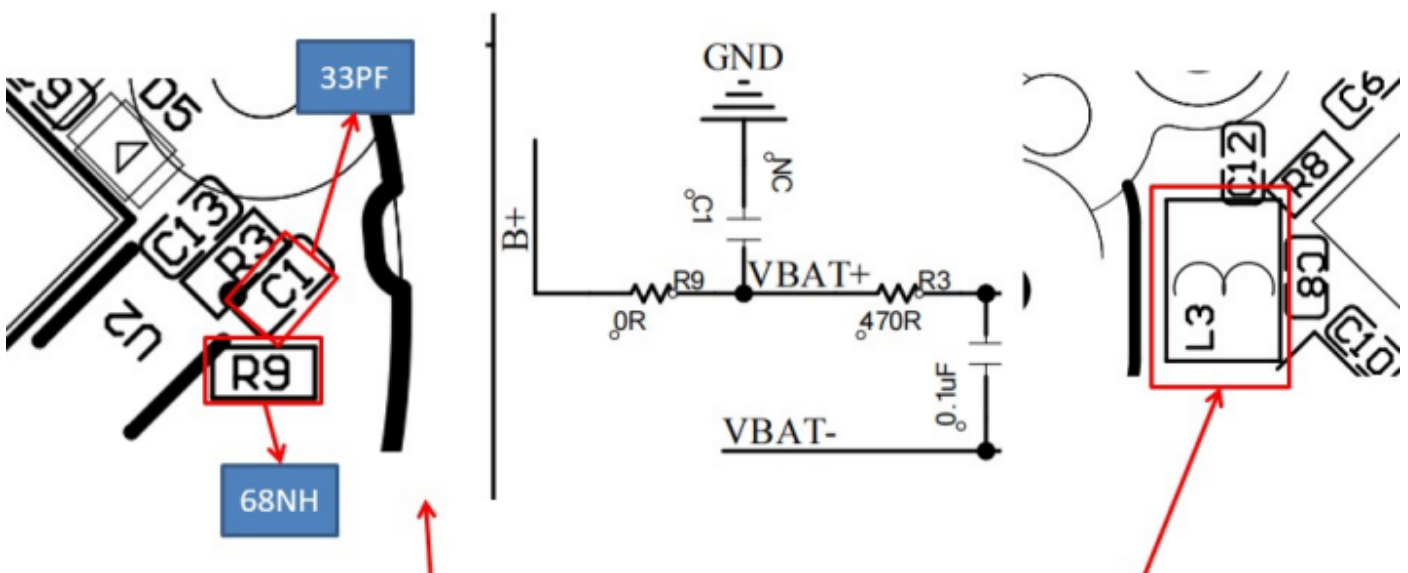
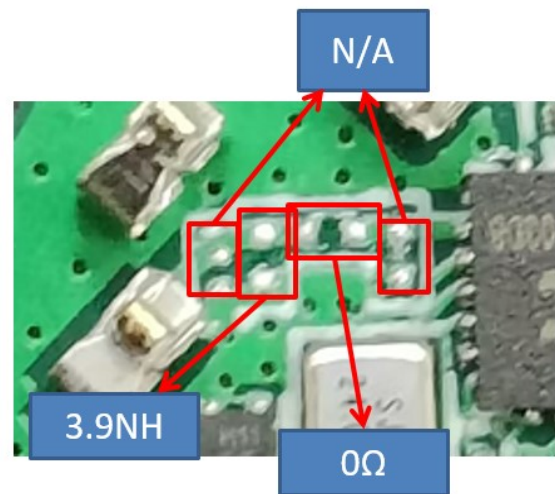
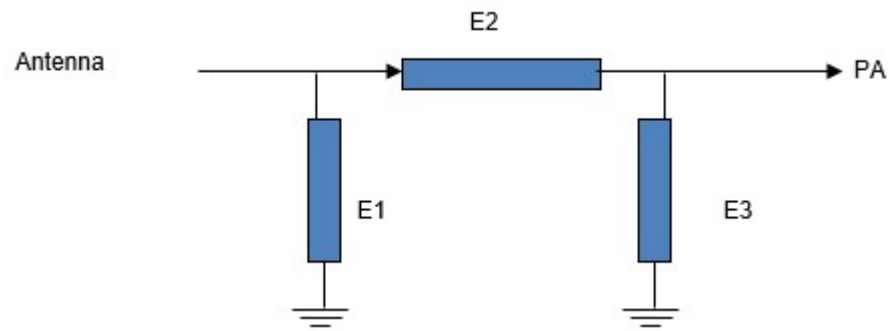
3: installation precautions



Note that the length of the wire can not be changed at will, and the placement and assembly method of the wire should be controlled according to the above illustration, otherwise there may be a risk of consistency.

4: Matching circuit

Element	Value
E1(0201)	3.9NH
E2(0201)	0Ω
E3(0201)	N/A



5: Structure drawing file

