



Antenna Part Specification

Customer name:	EDIFIER
Project name:	W280NB Pro
Material category:	Antenna Module
Version:	V1.0
Date:	2024.09.20
Manufacturer Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.09.20	first edition	first edition	V1.0

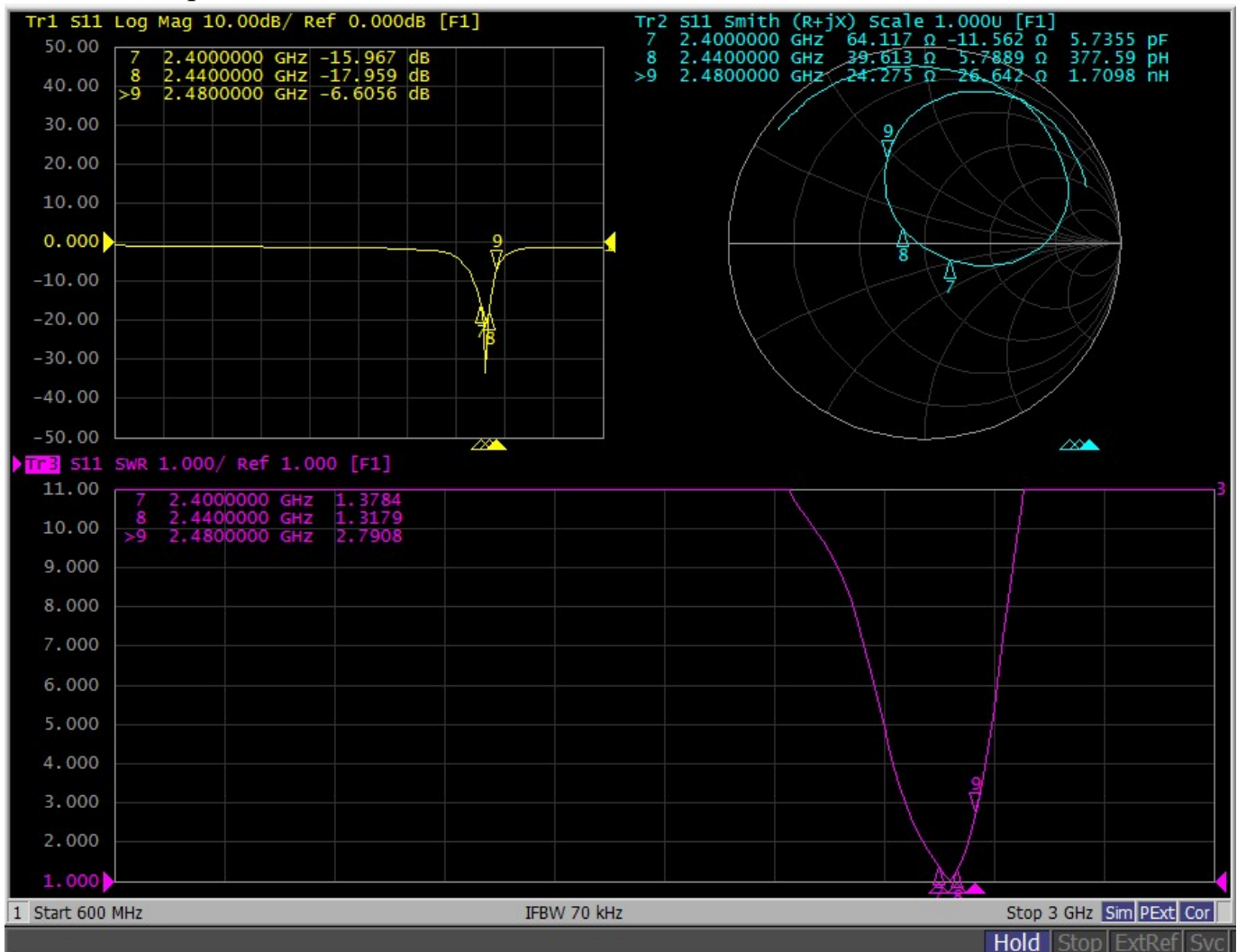


I: The report of passive data



Angilent E5071C

Antenna S11 parameter:





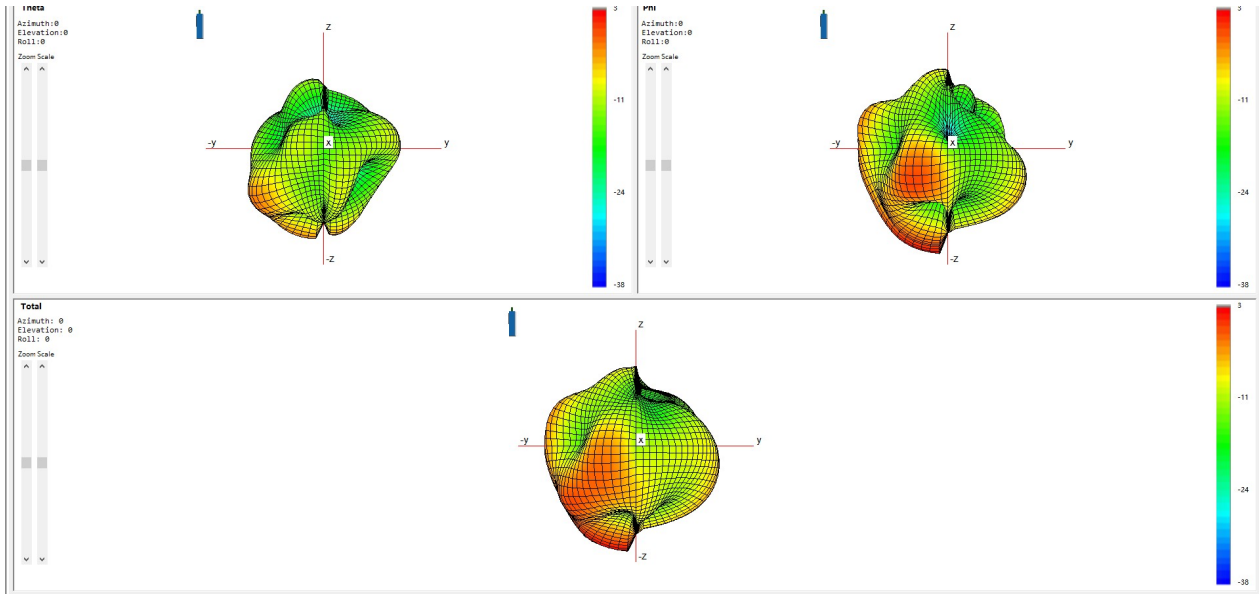
Efficiency:

free space			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	2.0	-3.4	45.9
2410	1.7	-3.4	45.6
2420	1.4	-3.4	45.9
2430	1.0	-3.4	45.6
2440	0.5	-3.7	43.0
2450	-0.1	-4.0	40.1
2460	-0.3	-4.1	38.7
2470	-0.7	-4.6	35.0
2480	-0.8	-4.8	33.1
Average value	0.54	-3.86	41.43

headform			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.9	-6.2	23.8
2410	2.0	-6.2	24.1
2420	2.0	-6.2	24.3
2430	1.9	-6.2	24.2
2440	1.6	-6.5	22.5
2450	1.2	-7.0	20.0
2460	0.8	-7.3	18.5
2470	0.2	-8.1	15.6
2480	-0.3	-8.5	14.2
Average value	1.25	-6.90	20.79

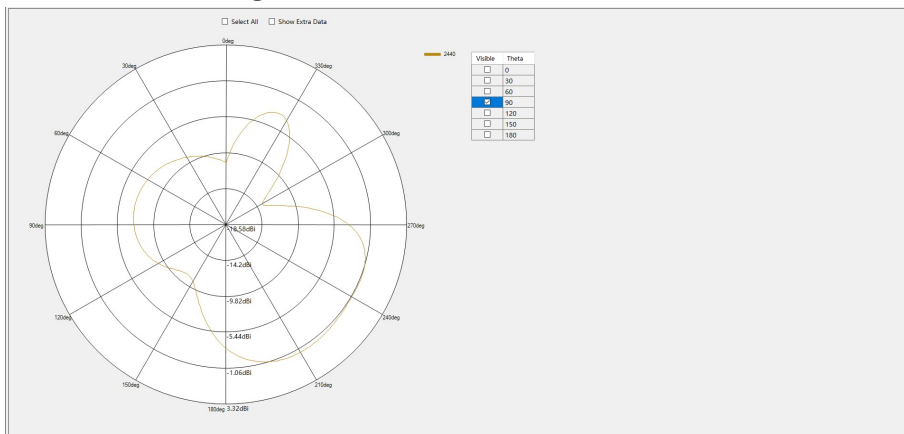


Antenna 3D radiation pattern (headform)

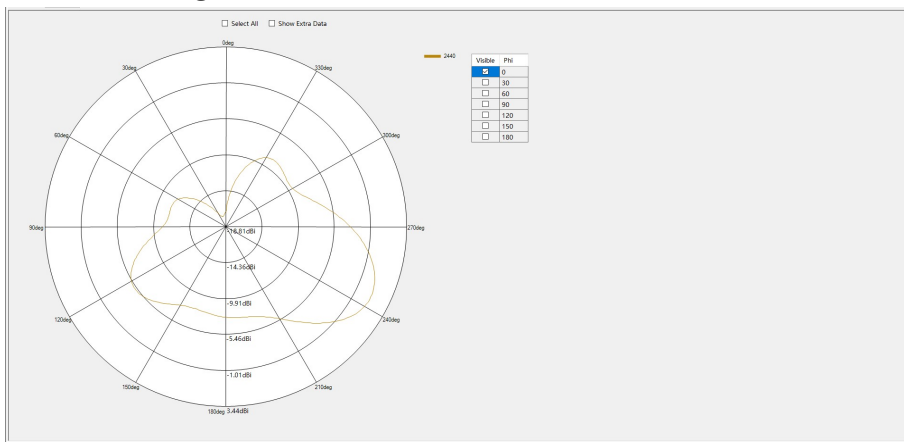


Antenna 2D radiation pattern (headform)

Theta=90.00deg

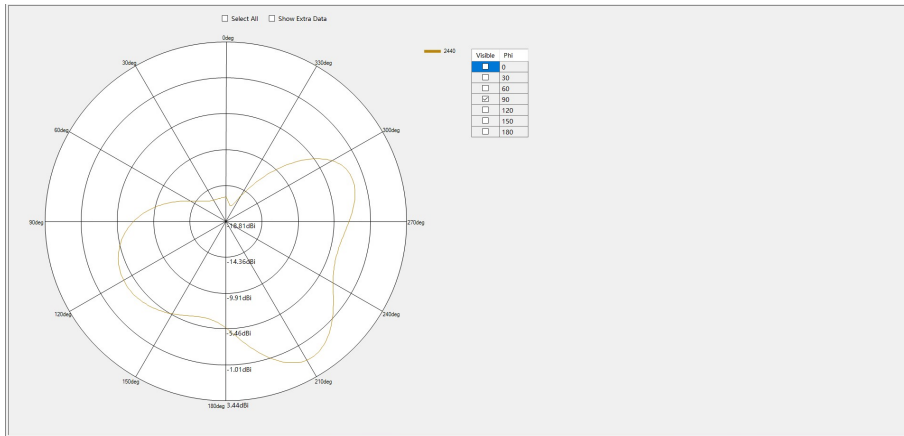


Phi=0.00deg





Phi=90.00deg



II: 3D Active test report of antenna

4 free space	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	6.5	-89.6
	CH 39	6.1	-88.5
	CH 78	4.6	-86.1

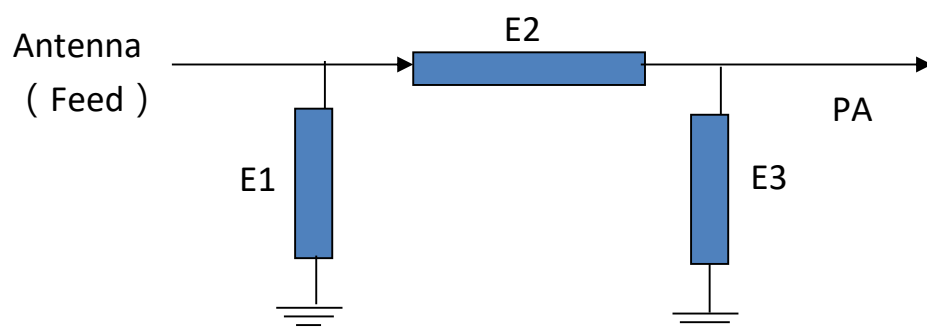
4# headform	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	2.5	-86.1
	CH 39	2.0	-85.5
	CH 78	1.1	-83.4



OTA Standard Chamber



III: Matching circuit



Antenna matching (trial production plan)	
Diagram number	Matching Value
E1	N/A
E2	0 Ω
E3	N/A



IV: Structure file

