



Antenna Part Specification

Project name:	Sky Tag
Material category:	BT antenna
Antenna type:	FPC
Version:	V1.0
Date:	2022.08.30



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Change record			
Compile / change date	Reason for change	Changed content	Version

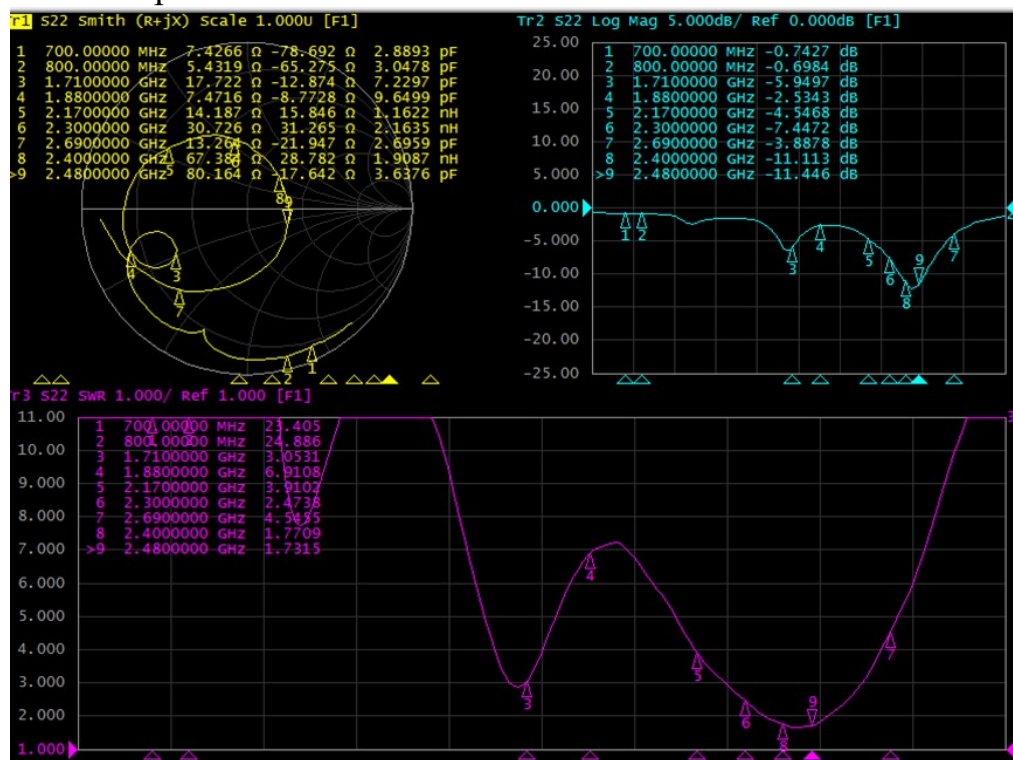


I: The report of passive data



Angilent E5071C

VSWR parameter:

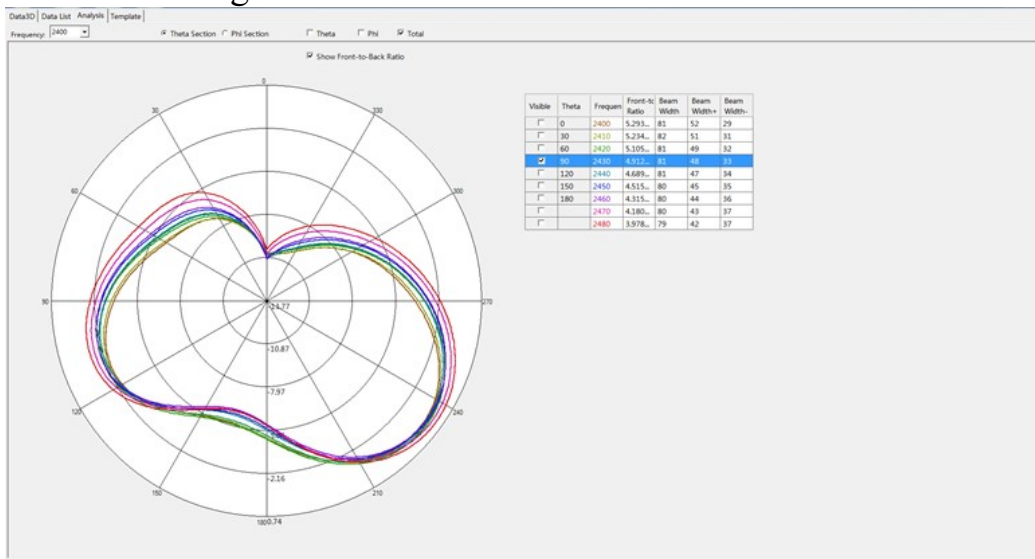


Efficiency:

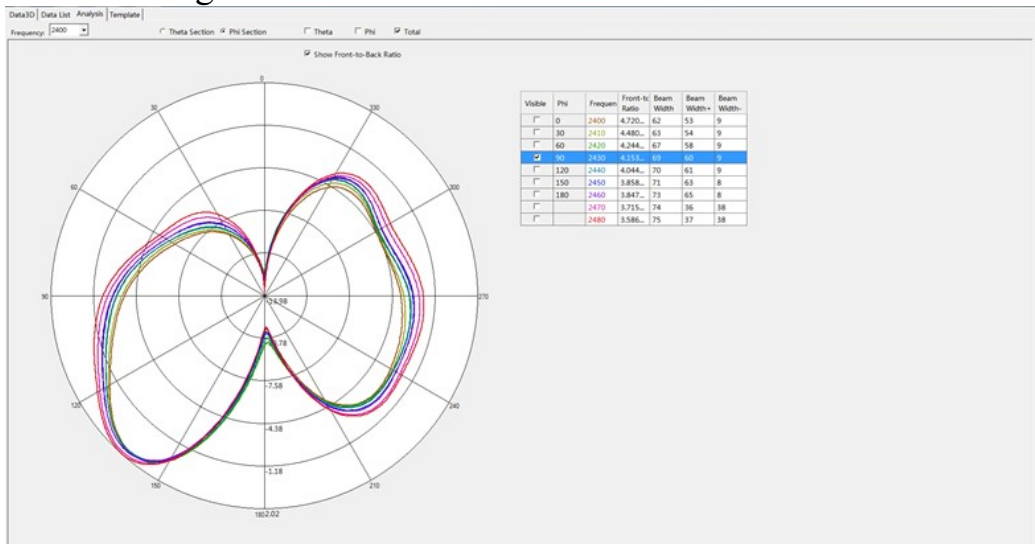
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	42.38	-3.73	0.47
2410	43.08	-3.66	0.53
2420	44.17	-3.55	0.59
2430	43.19	-3.65	0.46
2440	41.97	-3.77	0.31
2450	43.09	-3.66	0.38
2460	42.23	-3.75	0.28
2470	44.70	-3.50	0.52
2480	46.56	-3.32	0.74
Average value	43.48	-3.62	0.48



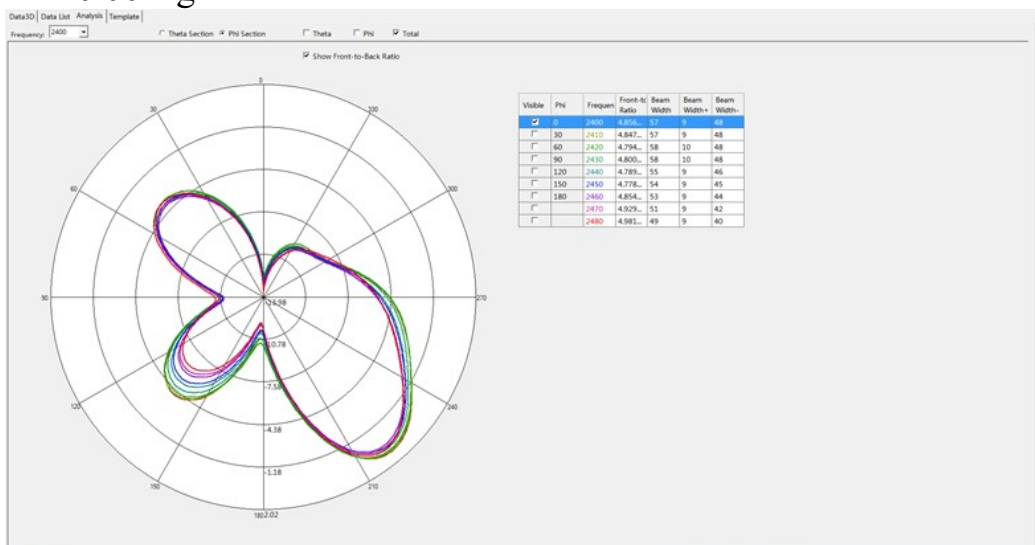
Antenna radiation pattern: Theta=90.00deg



Phi=90.00deg

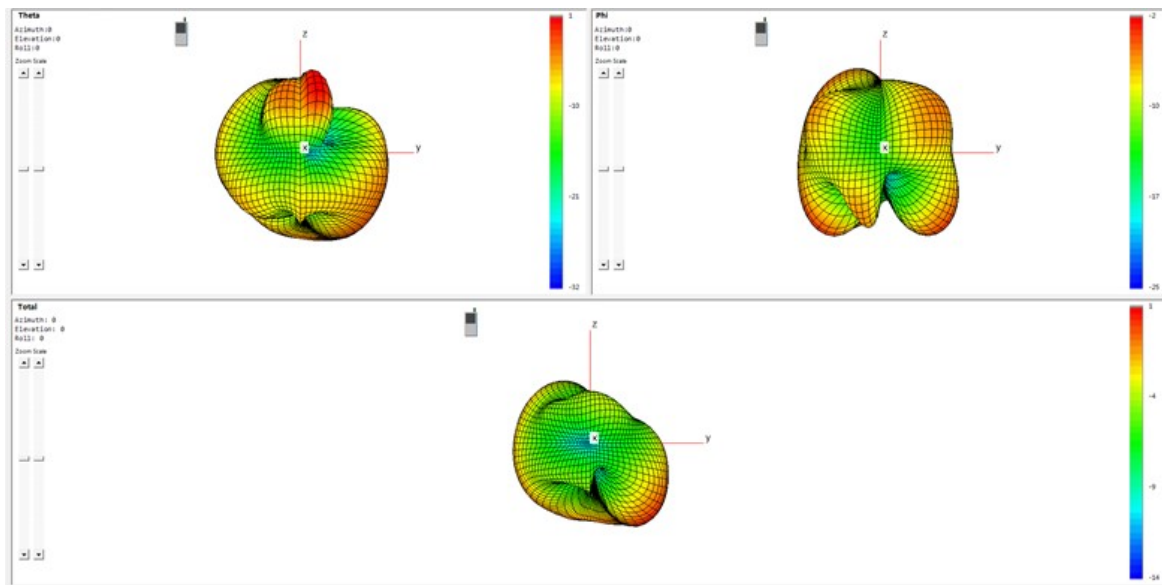


Phi=0.00deg



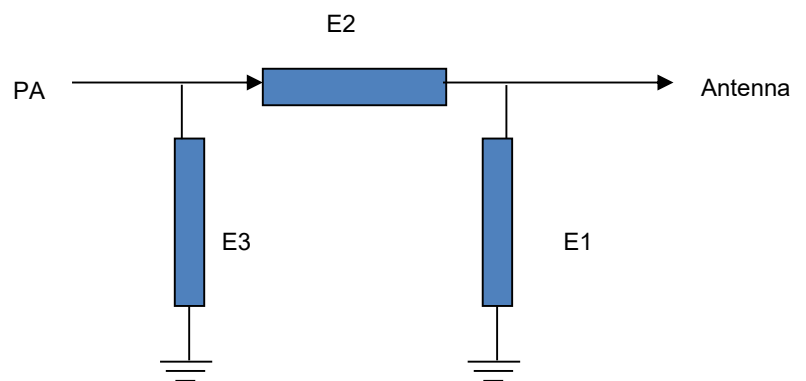


Antenna radiation 3D pattern:



II: Matching circuit

Element	Value
E1(0201)	1.2pF
E2(0201)	0Ω
E3(0201)	N/A





III: Environmental treatment



Figure 1



Figure 2

The installation of the machine is shown in Fig. 1 and Fig. 2. What needs to be handled in Fig. 1 is that the side with words on the battery is upward; Figure 2 shows that the antenna should be stuck in the card position smoothly.

The placement of batteries and battery wires and the position of antenna stickers have an impact on the antenna performance.



IV: Structure file:

