

Antenna Part Specification

Model No : RZ04-0516(BT)

Antenna material : BT Antenna

Antenna type : FPC Antenna

Version : V1.0

Date : 2024.04.07

Manufacturer : Razer Inc.

Address : 9 Pasteur, Suite 100, Irvine, CA92618, USA

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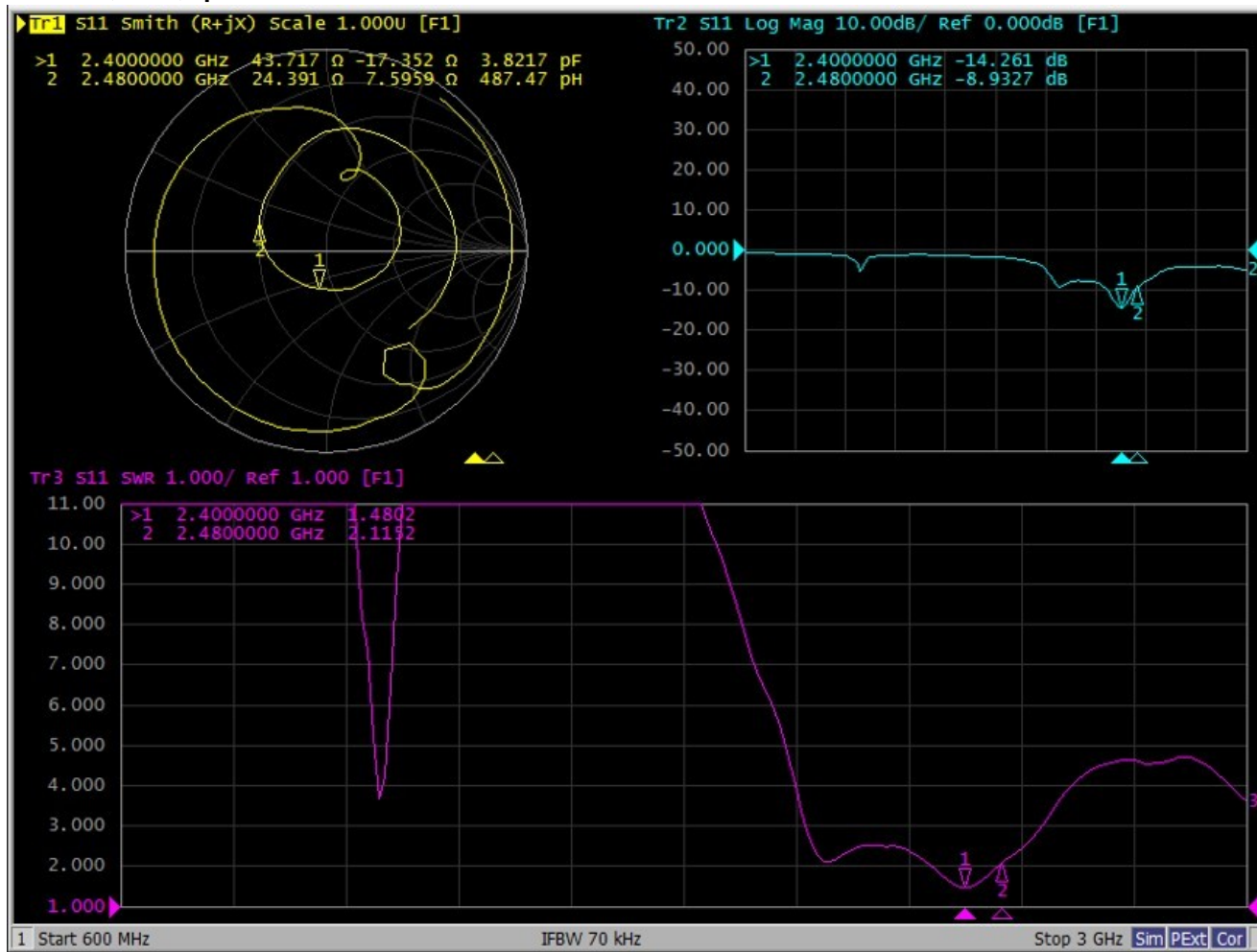
Change record			
Compile / change date	Reason for change	Changed content	Version
2024.03.23	First edition	First edition	V1.0
2024.04.07	Antenna optimization	Antenna pad position change	V2.0

I : The report of passive data



Angilent E5071C

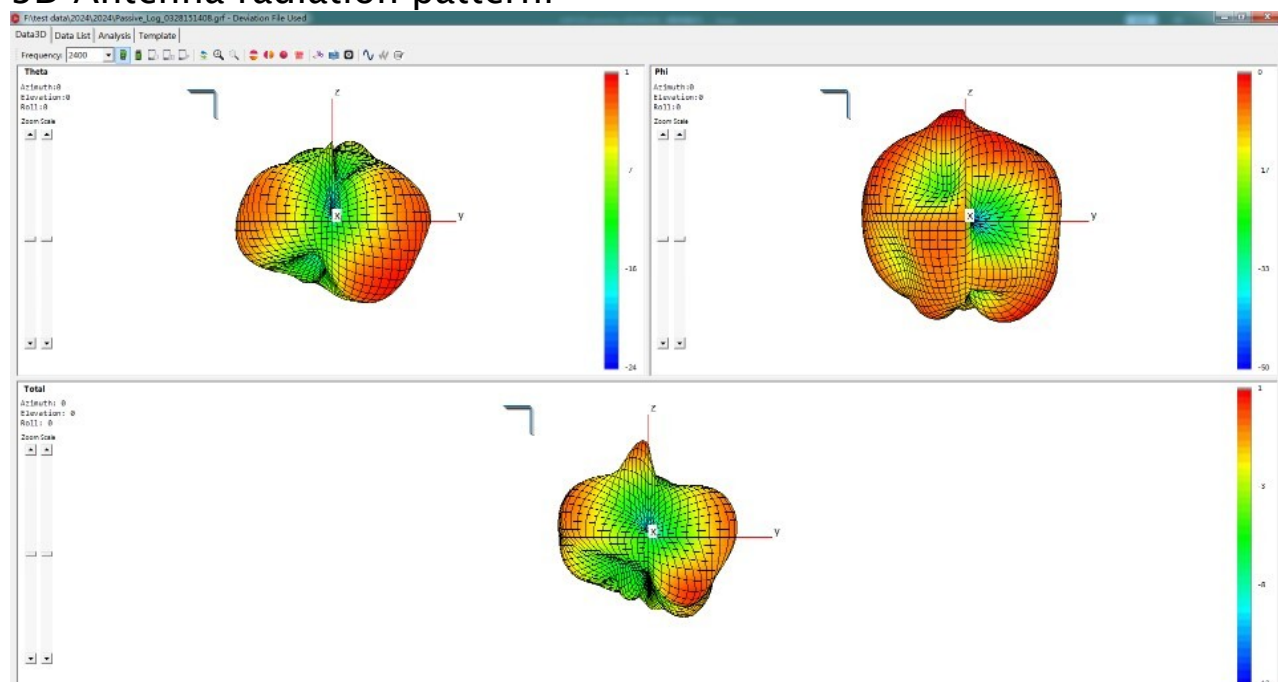
VSWR(S11) parameter :



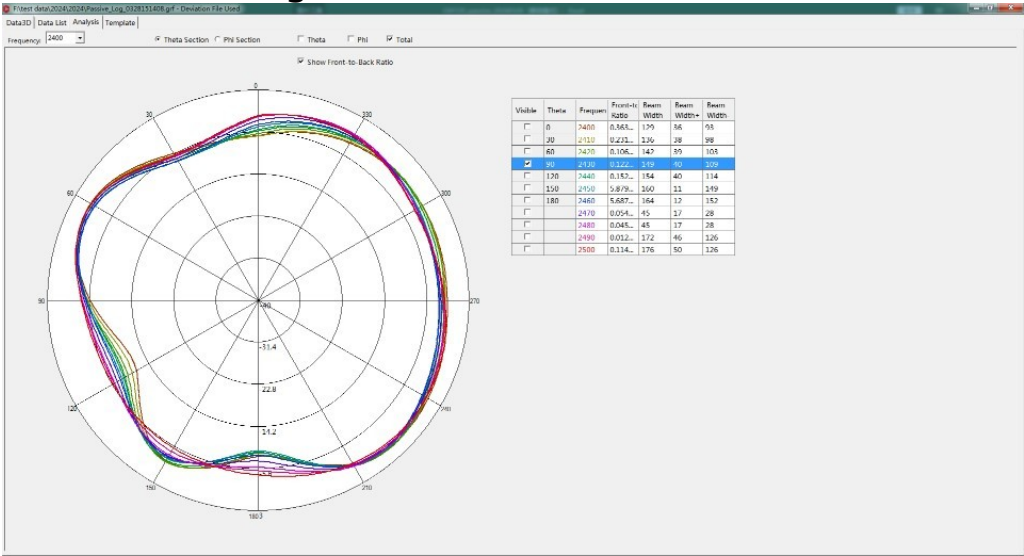
Efficiency :

free space			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	0.1	-2.7	54.2
2410	0.0	-2.9	51.7
2420	0.0	-2.9	51.5
2430	0.1	-3.0	50.7
2440	-0.2	-2.9	51.4
2450	-0.5	-3.2	47.4
2460	-0.5	-3.1	48.7
2470	-0.7	-3.2	47.8
2480	-0.2	-3.1	49.3
Average value	-0.2	-3.0	50.3

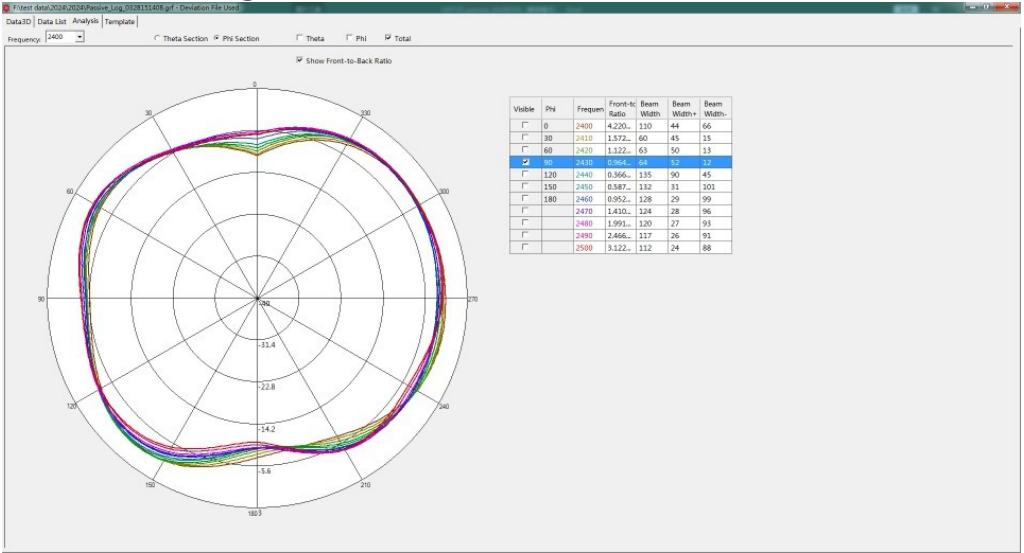
3D Antenna radiation pattern:



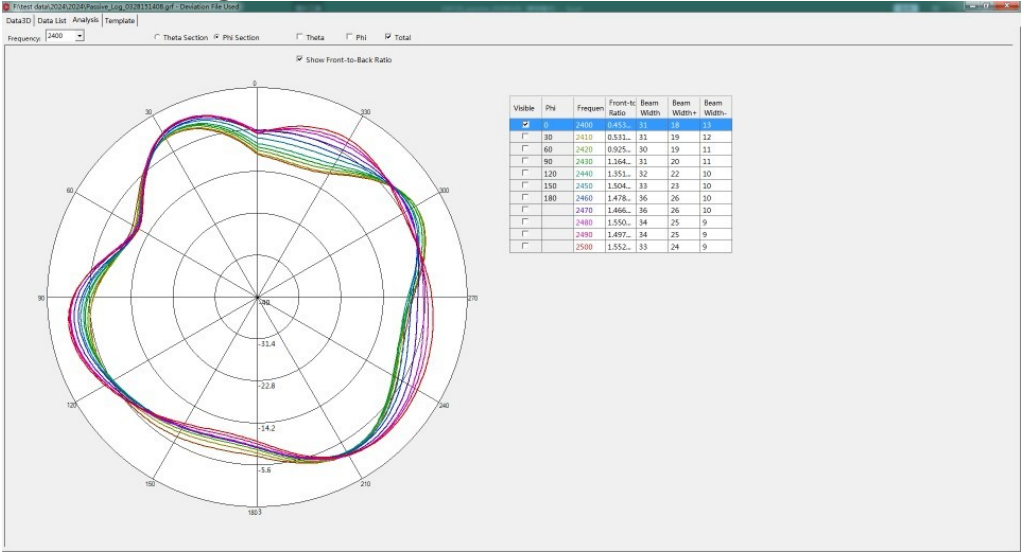
Antenna radiation pattern: Theta=90.00deg



Phi=90.00deg



Phi=0.00deg



II : 3D Active test report of antenna

BT	Channel	TRP (dBm)	TIS (dBm)
free space	CH 0	6.0	-91.2
	CH 39	6.1	-91.5
	CH 78	6.5	-91.8

BT	Channel	TRP (dBm)	TIS (dBm)
headform	CH 0	4.3	-90.0
	CH 39	4.8	-90.1
	CH 78	5.2	-90.4



OTA Standard Chambe

III : Matching circuit



Antenna matching string 2.0pF and 2.4nH

IV : Structure file

