



Antenna Part Specification

Project name:	EB1010
Material category:	WIFI antenna
Version:	V1.0
Date:	2023.03.21



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Change record			
Compile / change date	Reason for change	Changed content	Version
2023.03.21	First edition	First edition	V1.0

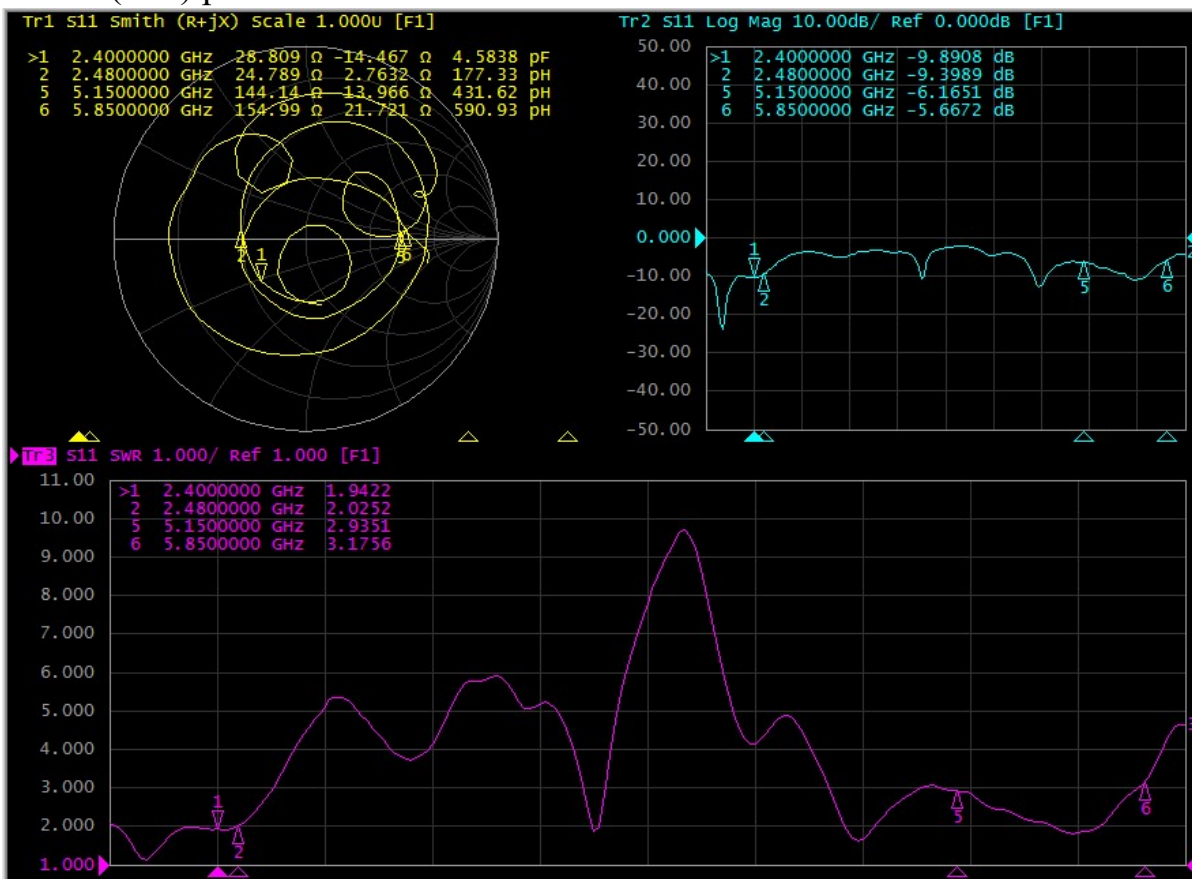


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:





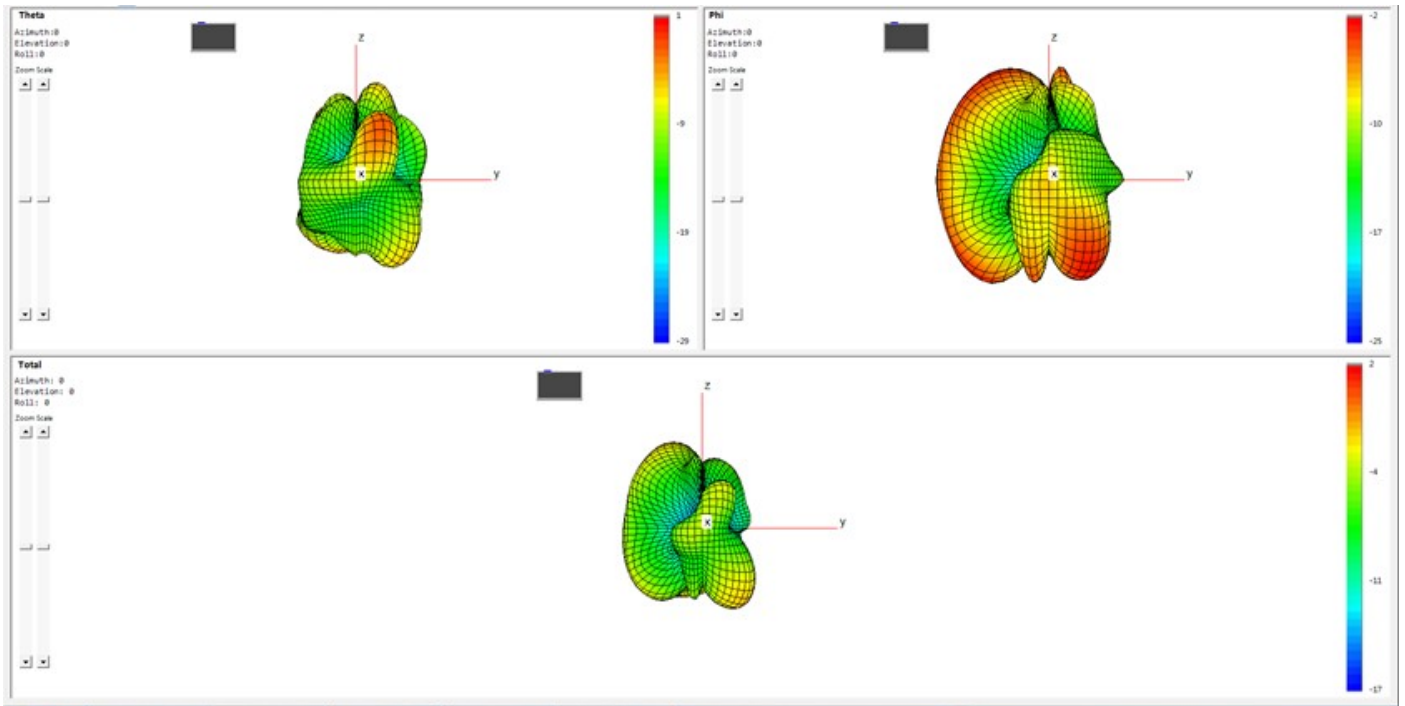
Efficiency:

2400-2480MHZ			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	30.4%	-5.2	2.4
2410	30.6%	-5.1	2.7
2420	30.8%	-5.1	2.8
2430	29.8%	-5.3	2.9
2440	28.8%	-5.4	2.9
2450	29.1%	-5.4	3.1
2460	28.4%	-5.5	3.1
2470	29.9%	-5.2	3.3
2480	30.6%	-5.1	3.4
Average value	29.8%	-5.3	2.9

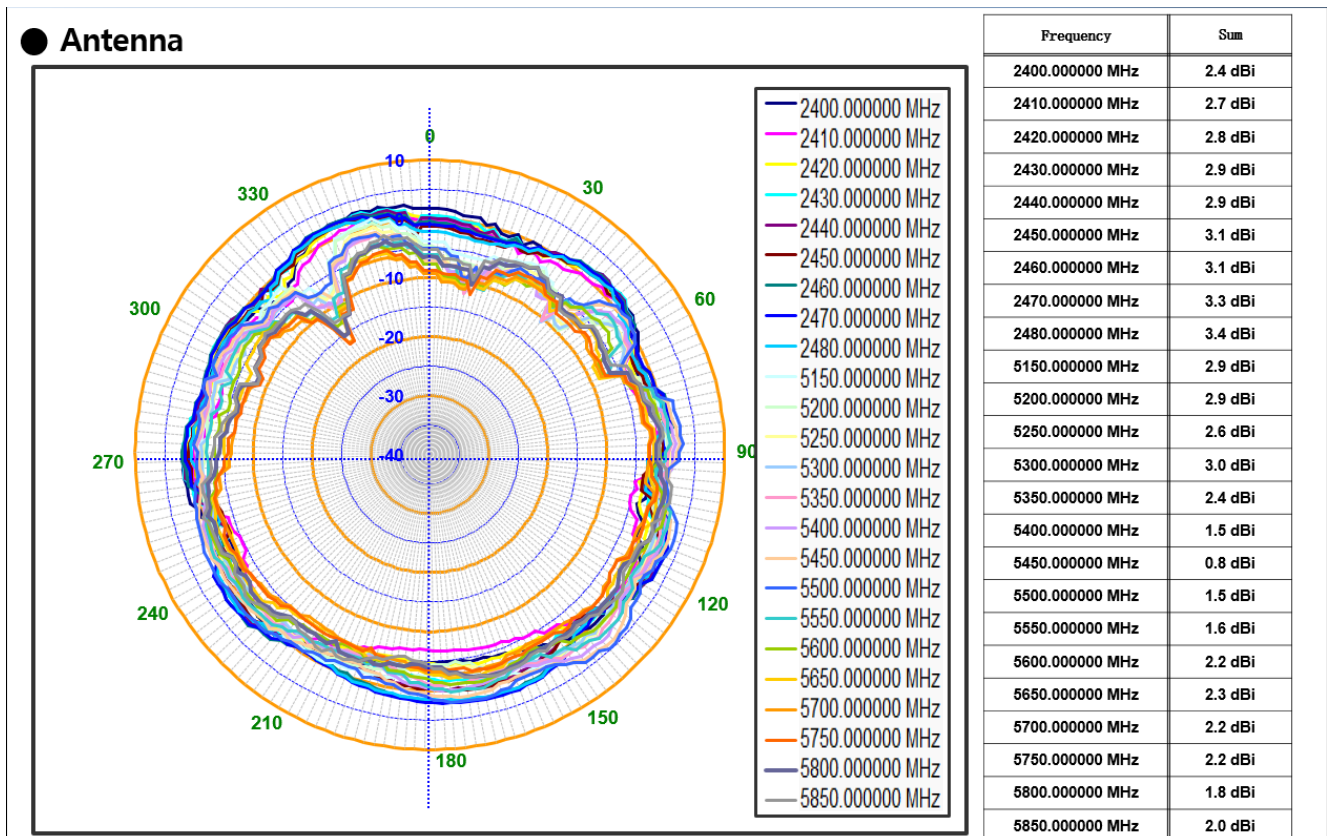
5150-5850MHZ			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
5150	40.5%	-3.9	2.9
5200	40.8%	-3.9	2.9
5250	39.8%	-4.0	2.6
5300	40.2%	-4.0	3.0
5350	34.5%	-4.6	2.4
5400	31.0%	-5.1	1.5
5450	28.8%	-5.4	0.8
5500	31.3%	-5.0	1.5
5550	30.8%	-5.1	1.6
5600	30.3%	-5.2	2.2
5650	30.3%	-5.2	2.3
5700	32.9%	-4.8	2.2
5750	38.3%	-4.2	2.2
5800	36.2%	-4.4	1.8
5850	38.0%	-4.2	2.0
Average value	34.9%	-4.6	2.1



3D Antenna radiation pattern:



Antenna radiation pattern:
Theta=90.00deg



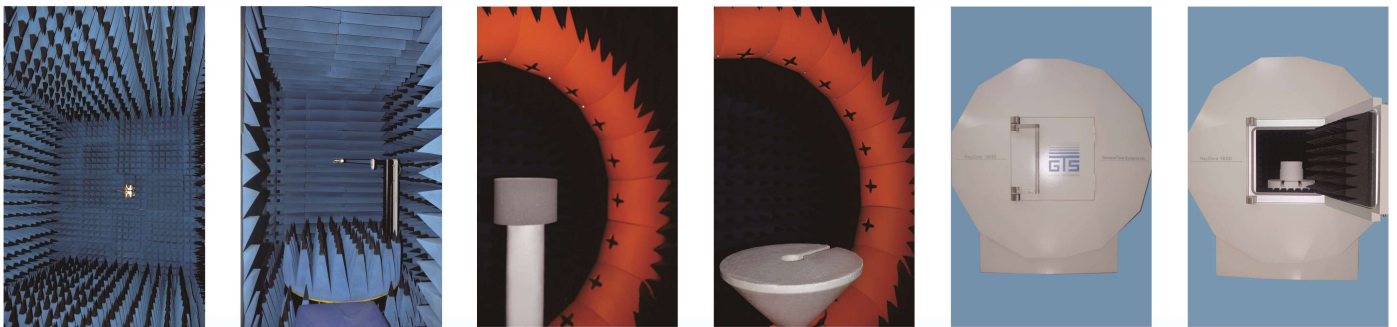


II: 3D Active test report of antenna

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	12.1	-80.0
	CH 6	12.9	-79.7
	CH 11	12.5	-80.2

54M	Channel	TRP (dBm)	TIS (dBm)
WIFI A	CH 36	7.1	-67.4
	CH 48	7.4	-66.5
	CH 165	9.2	-68.6

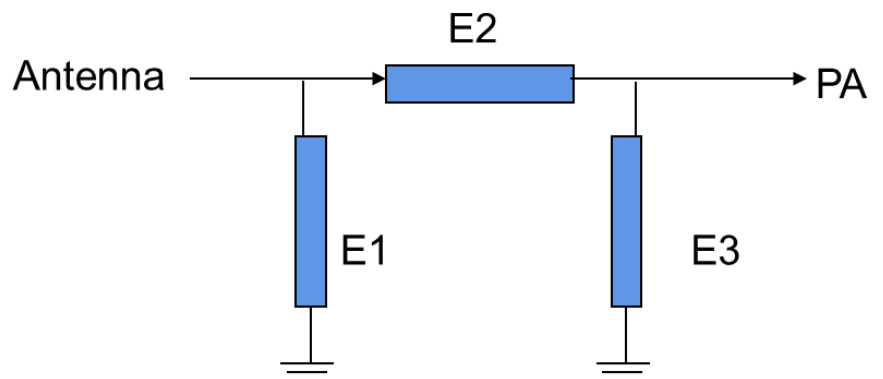
54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	13.0	-70.7
	CH 6	12.8	-69.5
	CH 11	12.7	-70.1



OTA Standard Chamber

III: Matching circuit

Element	Value
E1	N/A
E2	0Ω
E3	N/A





IV: Structure file

