



Antenna Part Specification

Project name:	Irobot
Material category:	WIFI Antenna
Version:	V1.0
Date:	2024. 7. 25



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024. 07. 25	First edition	First edition	V1. 0

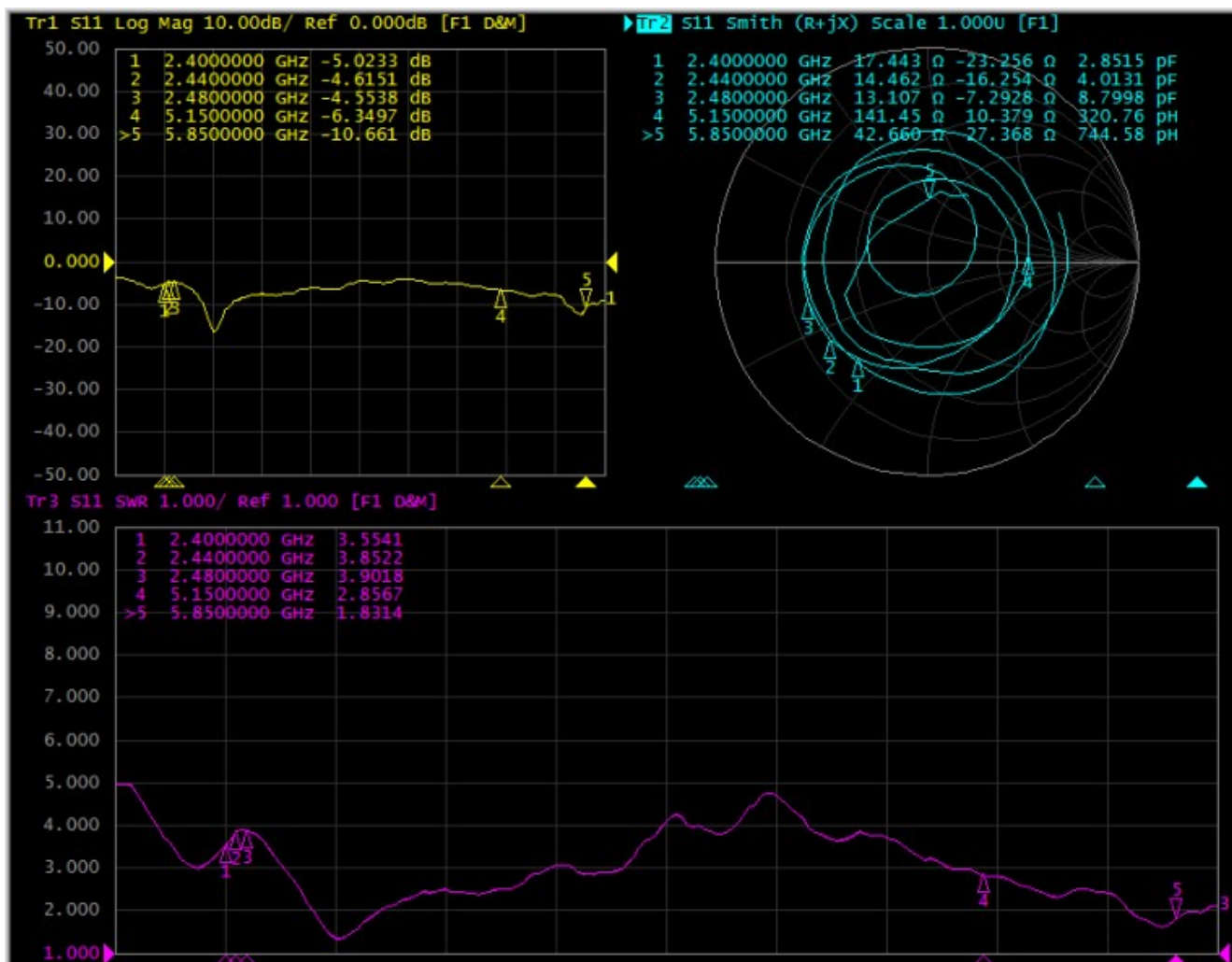


1. Passive test report



Angilent E5071C

Antenna S11 Parameters

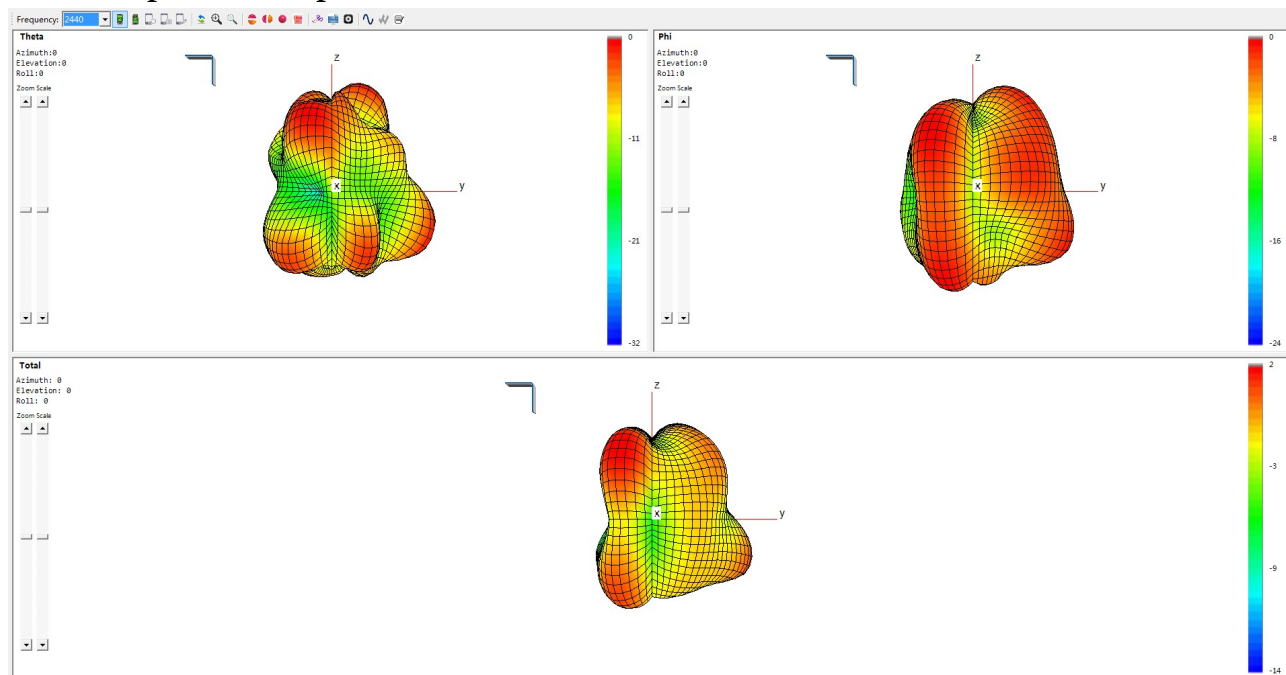




Antenna efficiency and gain: (2.4G)

2.4G			
Frequency	Gain	Efficiency db	Efficiency %
2400	1.6	-3.2	48.3
2410	1.7	-3.1	48.5
2420	1.7	-3.2	48.0
2430	1.4	-3.4	45.7
2440	1.1	-3.4	45.3
2450	1.1	-3.4	45.7
2460	0.8	-3.5	44.4
2470	0.9	-3.6	43.4
2480	0.9	-3.6	43.9
AVG	1.2	-3.4	45.9

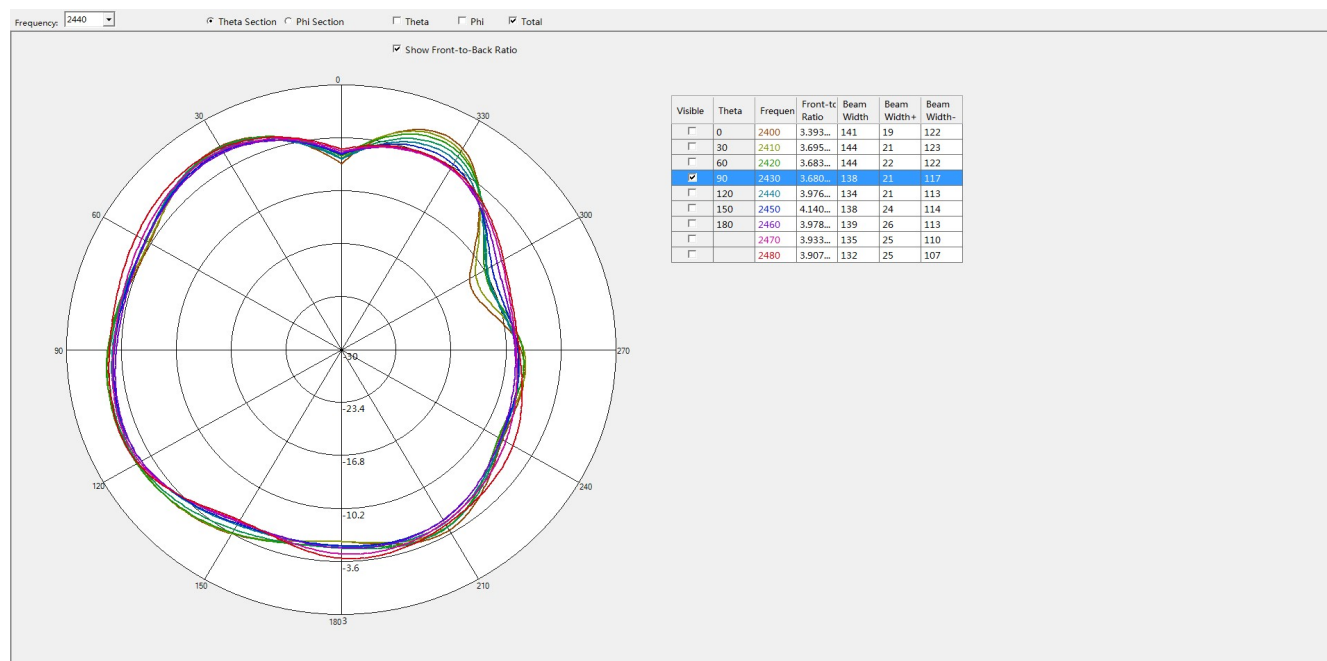
Antenna passive 3D pattern: (2.4G)



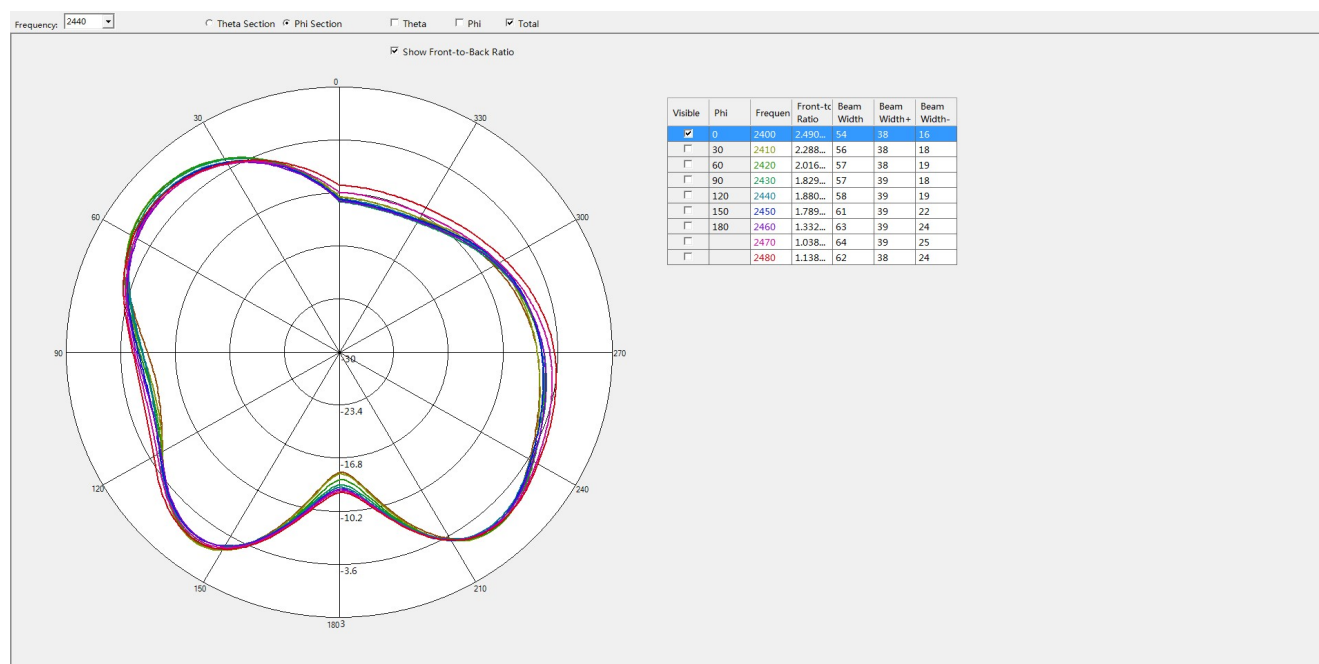


Antenna passive pattern: (2.4G)

Theta=90°

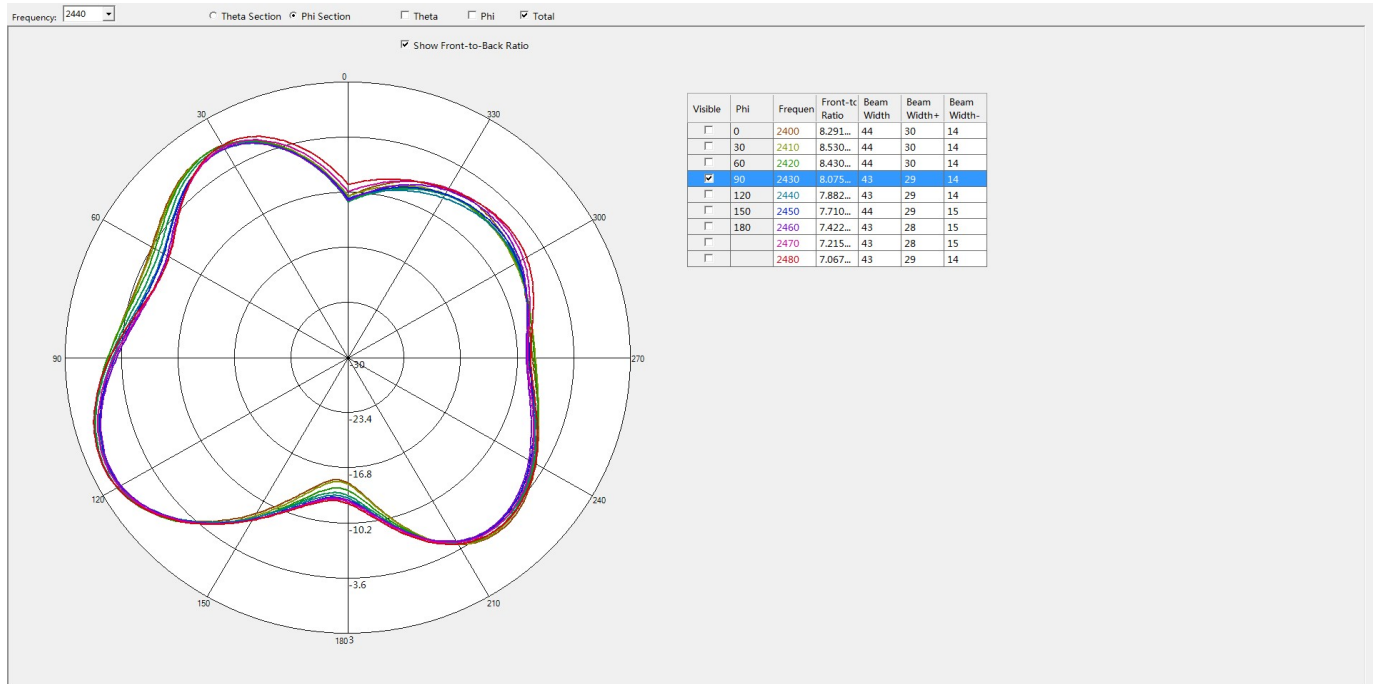


Phi=0°





Phi=90°

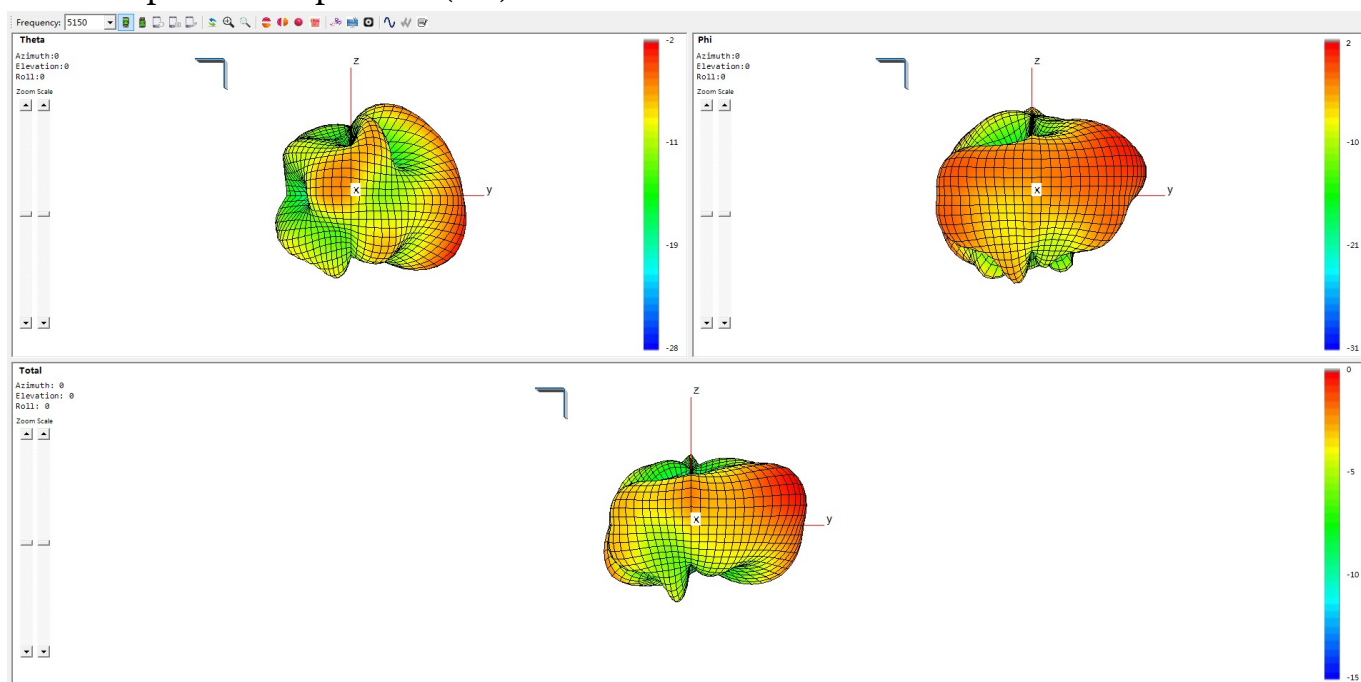


Antenna efficiency and gain: (5G)

5G			
Frequency	Gain	Efficiency db	Efficiency %
5150	-0.7	-4.2	37.9
5200	-0.9	-4.1	38.6
5250	-0.3	-4.0	39.4
5300	1.0	-4.0	39.9
5350	1.6	-3.9	40.7
5400	1.6	-3.8	41.8
5450	1.3	-3.9	40.8
5500	1.9	-3.1	48.5
5550	1.1	-3.5	44.2
5600	1.6	-3.0	50.2
5650	1.4	-2.9	51.2
5700	1.9	-2.7	54.2
5750	1.9	-2.5	55.8
5800	1.2	-2.8	52.8
5850	1.6	-2.8	52.2
AVG	1.1	-3.4	45.9

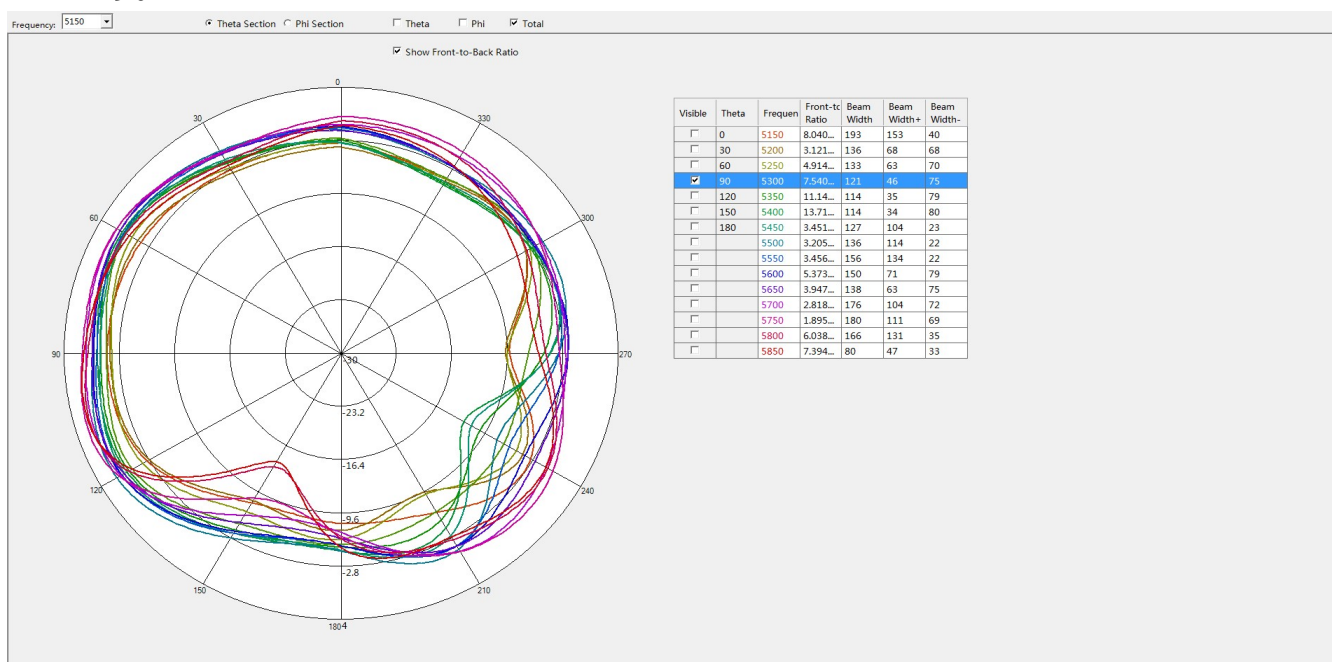


Antenna passive 3D pattern: (5G)



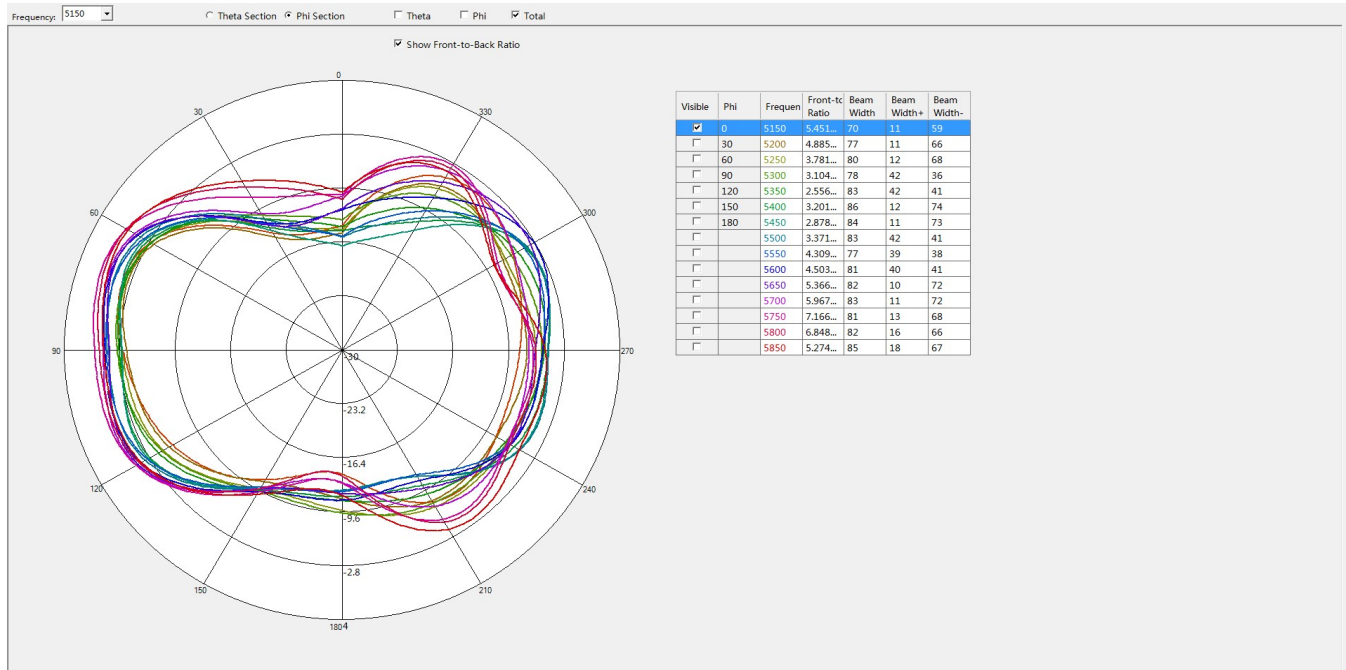
Antenna passive pattern: (5G)

Theta=90°

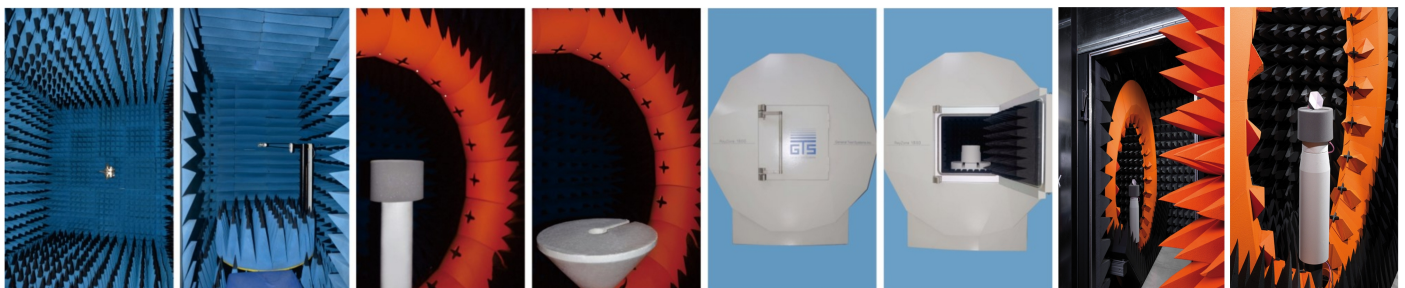
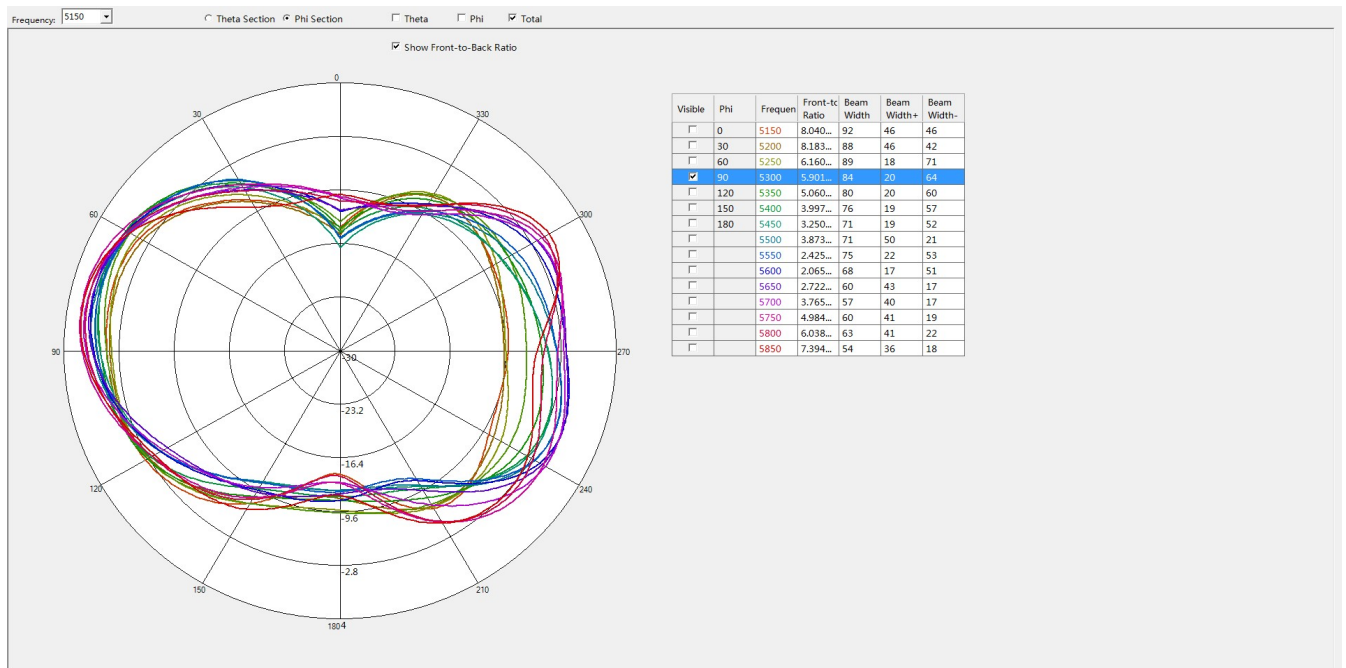




Phi=0°



Phi=90°



OTA Standard Chamber



2. Structural drawing

