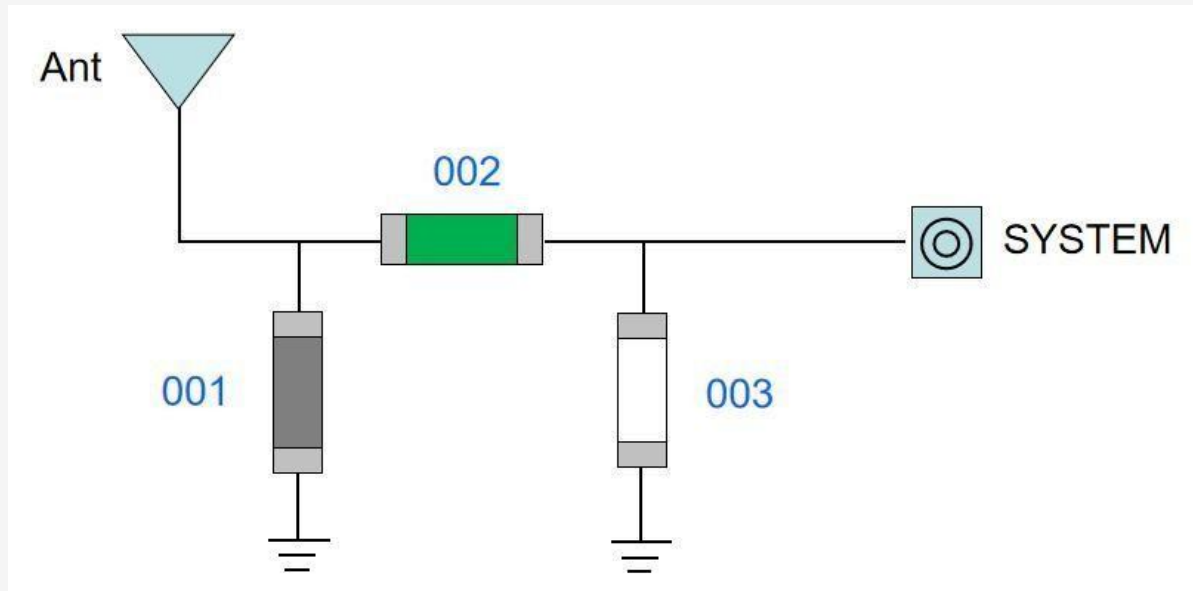


BT Antenna Test Report

Customer	Eastech	Project	TW-2110
Report Version	V1.2	Report Date	2023-02-16
Prepared by	Qiang. Wang	Checked by	Lei. Zhang



Change of matching circuit:



Left ear antenna circuit matching

001: NC

002: 0Ω

003: NC

Right ear antenna circuit matching

001: NC

002: 1.8PF

003: NC

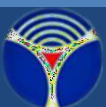
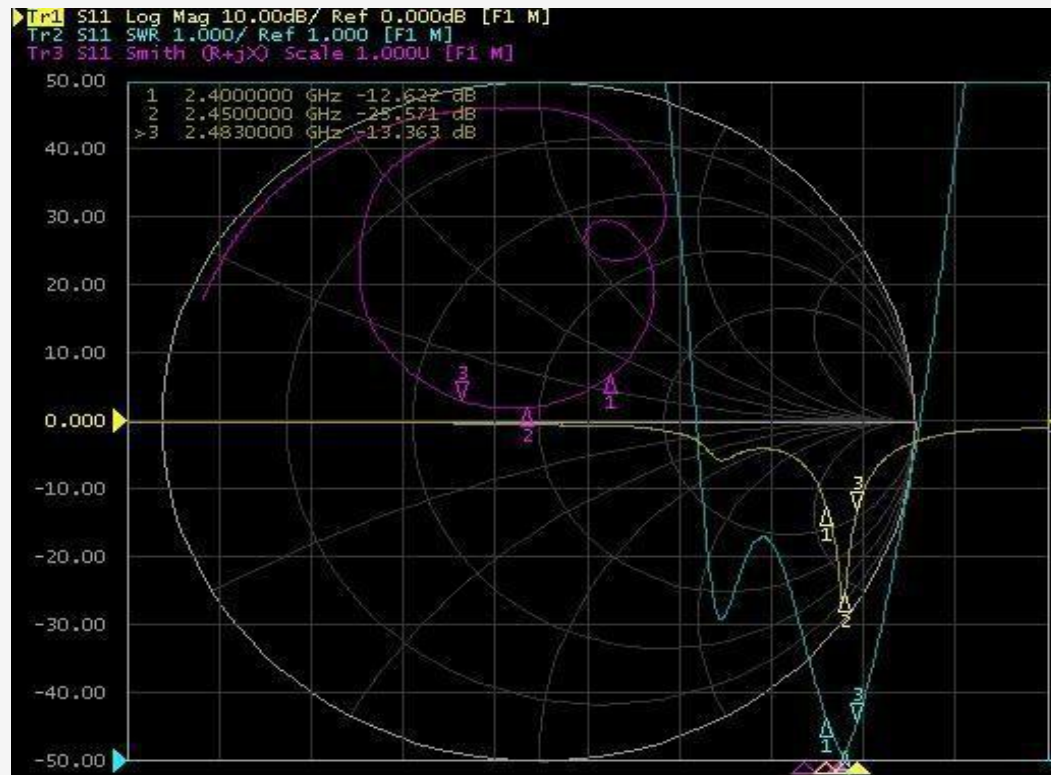
Note: the matching circuit is changed



Antenna Test Results:

Complete machine data----Passive S11 parameter diagram

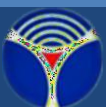
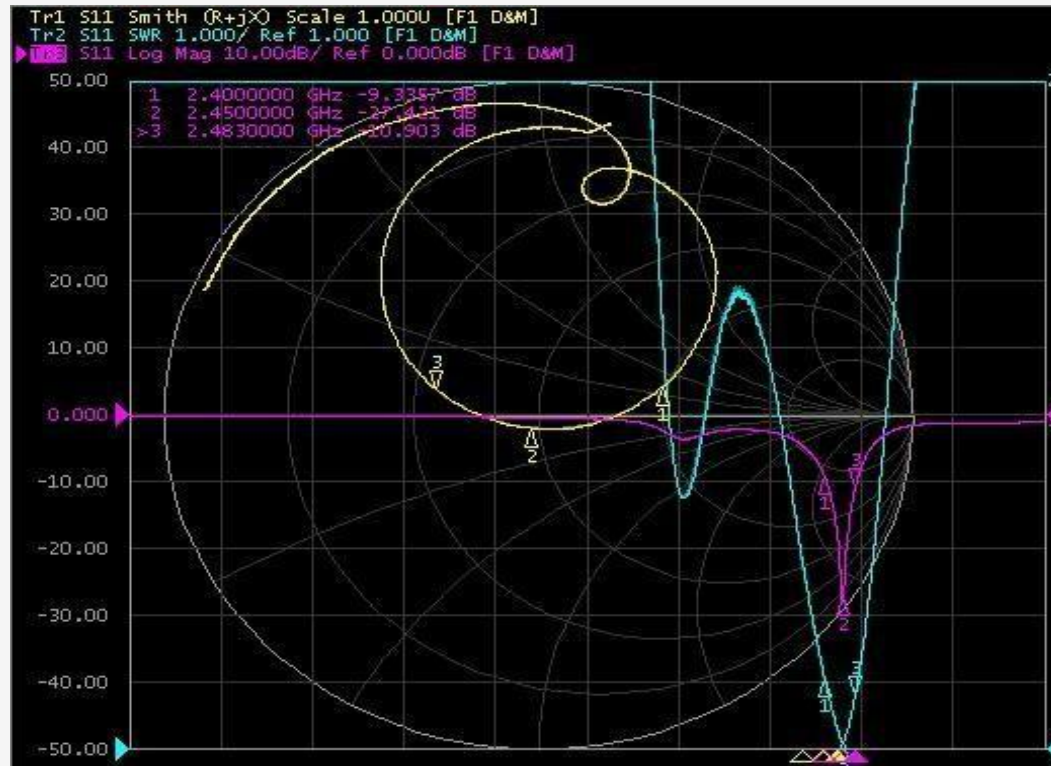
Left ear



Antenna Test Results:

Complete machine data----Passive S11 parameter diagram

Right ear



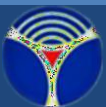
Passive efficiency of antenna:

Complete machine data---free space

Left ear

Right ear

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)		Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	19.44	-7.11	-2.63		2400	19.76	-7.04	-3.2
2410	19.93	-7.01	-2.27		2410	22.63	-6.45	-2.75
2420	21.54	-6.67	-1.96		2420	24.51	-6.11	-2.42
2430	22.98	-6.39	-1.44		2430	25.93	-5.86	-2.33
2440	23.25	-6.34	-1.41		2440	25.43	-5.95	-2.25
2450	24.03	-6.19	-1.27		2450	25.63	-5.91	-2.13
2460	24.03	-6.19	-1.26		2460	24.59	-6.09	-2.15
2470	23.69	-6.26	-1.32		2470	23.97	-6.20	-2.18
2480	23.83	-6.23	-1.35		2480	23.23	-6.34	-2.23
2490	22.54	-6.47	-1.51		2490	23.41	-6.31	-2.09
2500	21.07	-6.76	-1.88		2500	21.55	-6.67	-2.41



Active data of antenna:

Complete machine data---free space---Main antenna

L			
BAND	CH	TRP (dBm)	TIS (dBm)
BT	0	1.05	-89.35
	39	1.83	-90.05
	78	2.36	-90.17

R			
BAND	CH	TRP (dBm)	TIS (dBm)
BT	0	1.05	-89.71
	39	1.88	-89.92
	78	2.14	-90.61

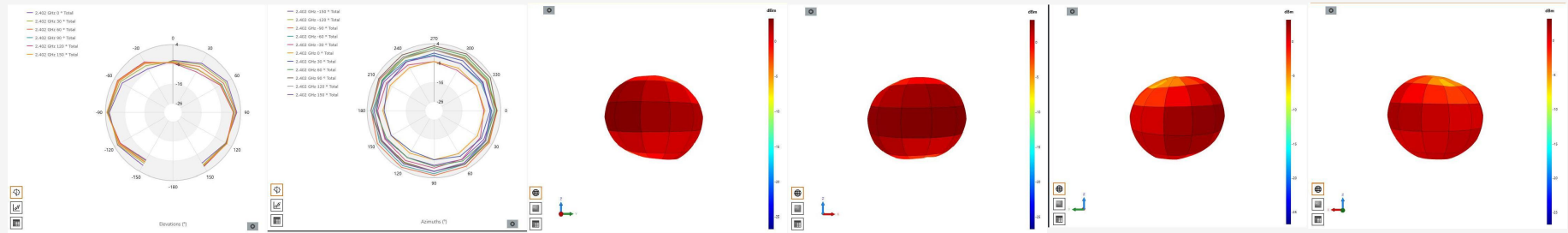
Active data of antenna:

Complete machine data---Headform---Main antenna

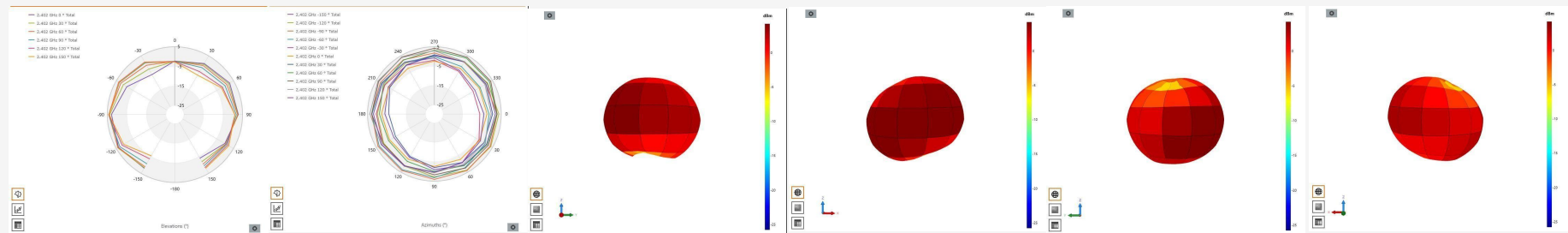
L			
BAND	CH	TRP (dBm)	TIS (dBm)
BT	0	-6.01	-82.09
	39	-5.01	-82.49
	78	-5.72	-82.44

R			
BAND	CH	TRP (dBm)	TIS (dBm)
BT	0	-6.77	-82.41
	39	-5.49	-82.74
	78	-5.98	-82.51

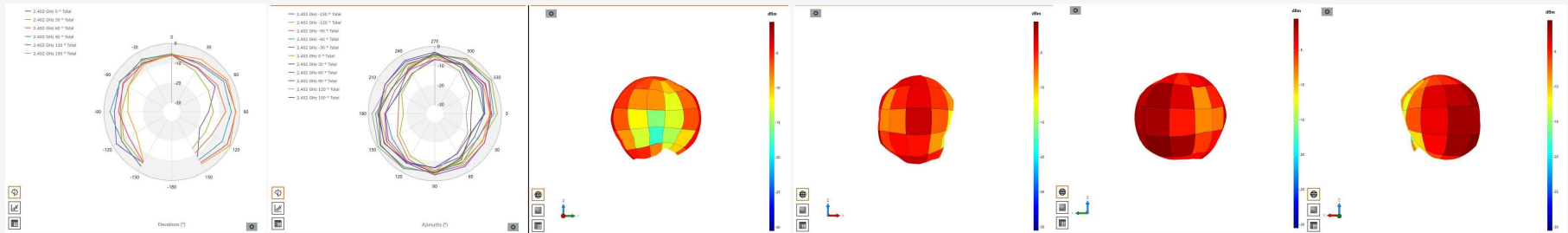
Active field pattern of antenna: Complete machine data---free space---L



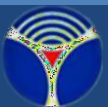
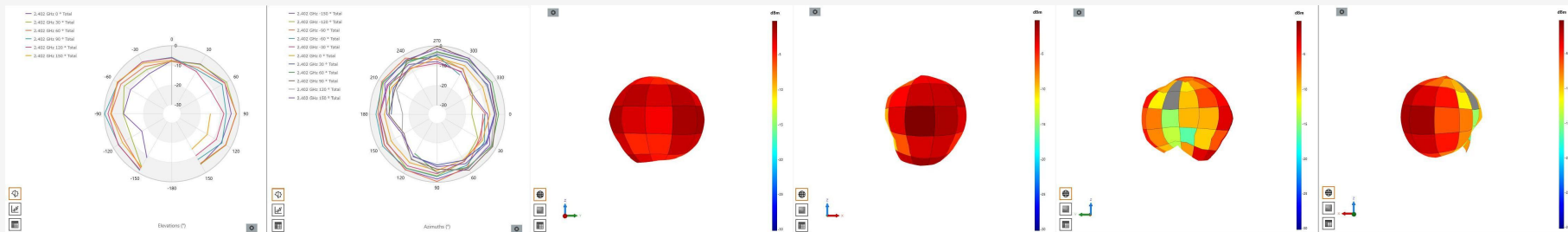
Complete machine data---free space---R



Active field pattern of antenna: Complete machine data---Headform---L



Complete machine data---Headform---R



Thanks for watching

