

BT Antenna Specification

Type	PCB Ant.	Project	HH2305
Report Version	V3.0	Report Date	2023-09-19
Prepared by	Peng. Hu	Checked by	Lei. Zhang



Matching circuit change:



Antenna circuit matching

C112: 10NH

R106: 2.7NH

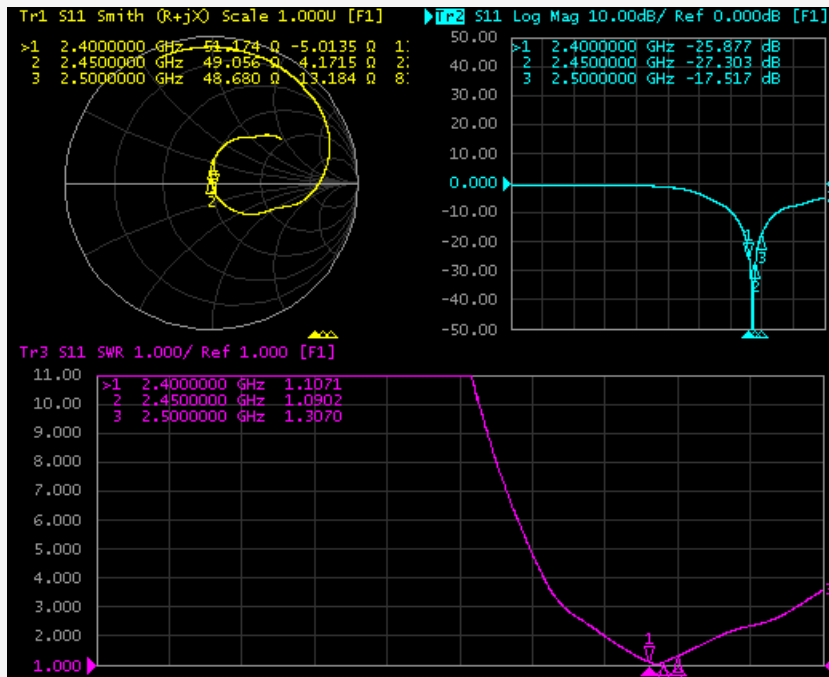
C111: NC

Attention: There is a change in the matching circuit

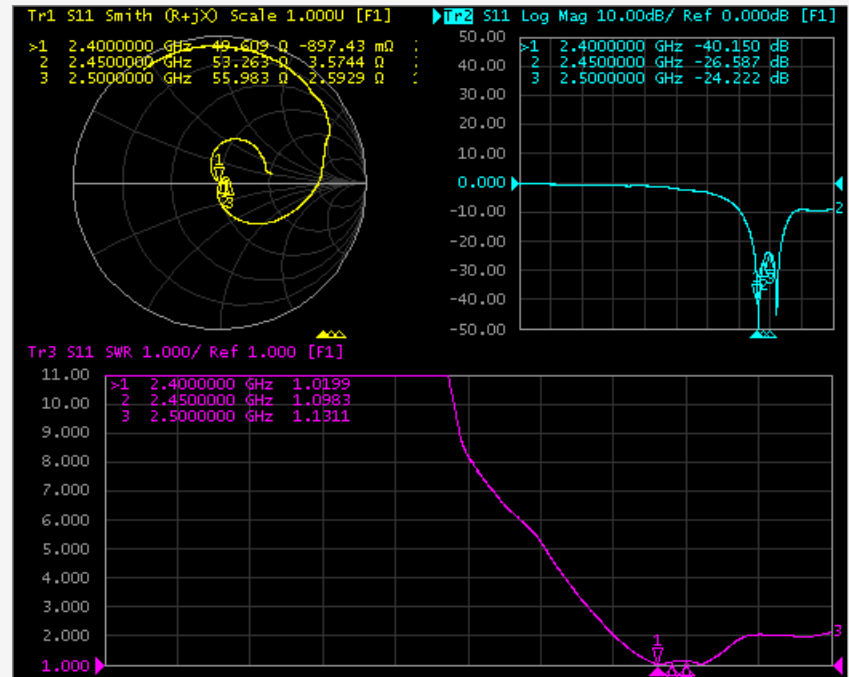
Antenna test results:

Machine data - Passive S11 parameter diagram

Free



headform



Antenna passive efficiency:

Machine data

Free

Frequency (MHz)	AVG Gain (dB)	Efficiency (%)	Gain (dBi)
2400	-2.56	55.51	2.16
2410	-2.54	55.73	2.18
2420	-2.47	56.62	2.27
2430	-2.41	57.47	2.31
2440	-2.37	57.93	2.33
2450	-2.33	58.48	2.42
2460	-2.25	59.59	2.46
2470	-2.20	60.24	2.59
2480	-2.26	59.47	2.72
2490	-2.27	59.25	2.64
2500	-2.30	58.93	2.61

headform

Frequency (MHz)	AVG Gain (dB)	Efficiency (%)	Gain (dBi)
2400	-3.47	44.99	4.45
2410	-3.43	45.44	4.49
2420	-3.30	46.76	4.51
2430	-3.28	47.03	4.59
2440	-3.22	47.69	4.62
2450	-3.16	48.35	4.81
2460	-3.12	48.78	4.92
2470	-3.02	49.88	5.04
2480	-3.05	49.51	5.11
2490	-3.06	49.39	5.08
2500	-3.09	49.12	5.03

Antenna active data:

Machine Data - Main Antenna

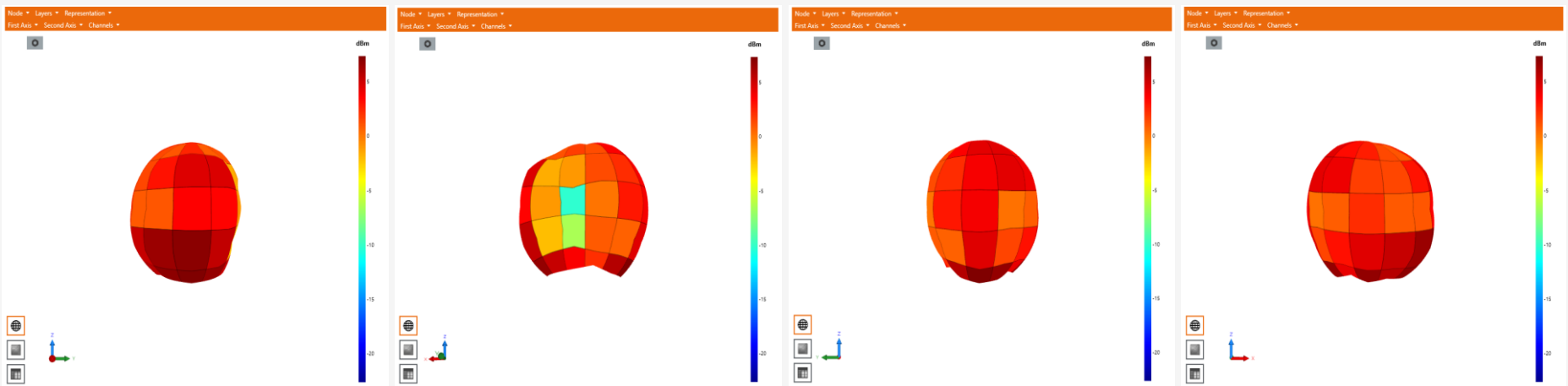
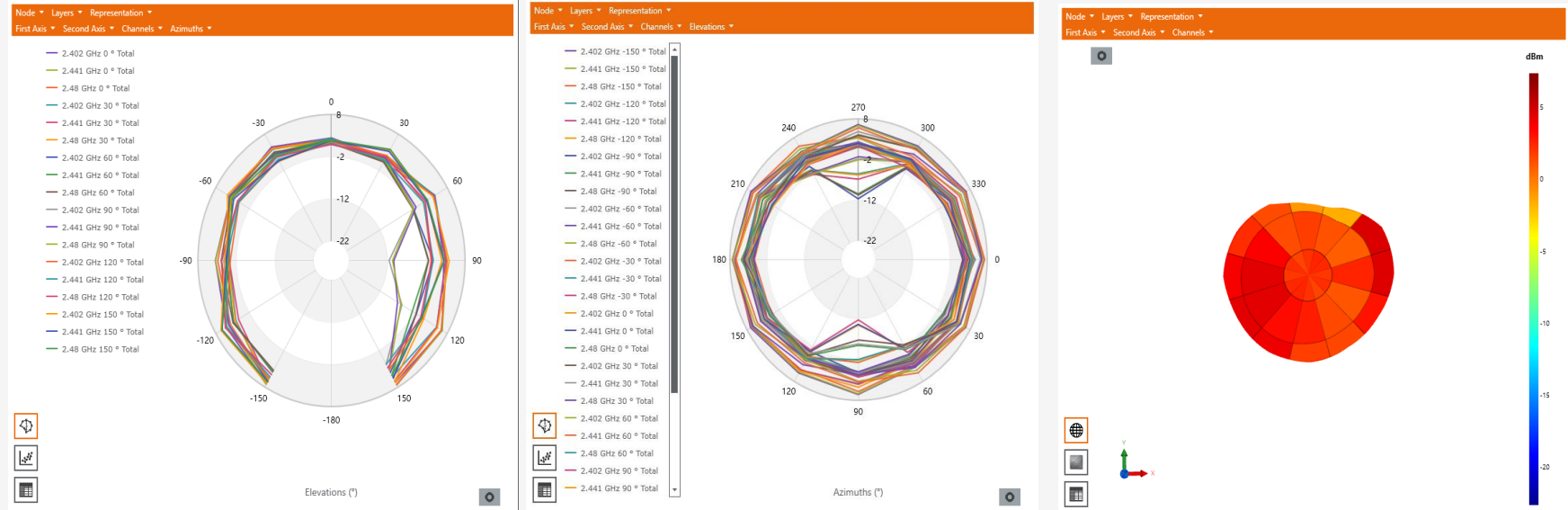
FREE	CH	TRP (dBm)	TIS (dBm)
	0	1.44	-90.56
	39	1.68	-90.85
	78	1.86	-90.82

HEAD	CH	TRP (dBm)	TIS (dBm)
	0	0.63	-89.29
	39	0.79	-89.21
	78	1.02	-89.69

Antenna active data:

Whole field shape data - Free space - Main antenna

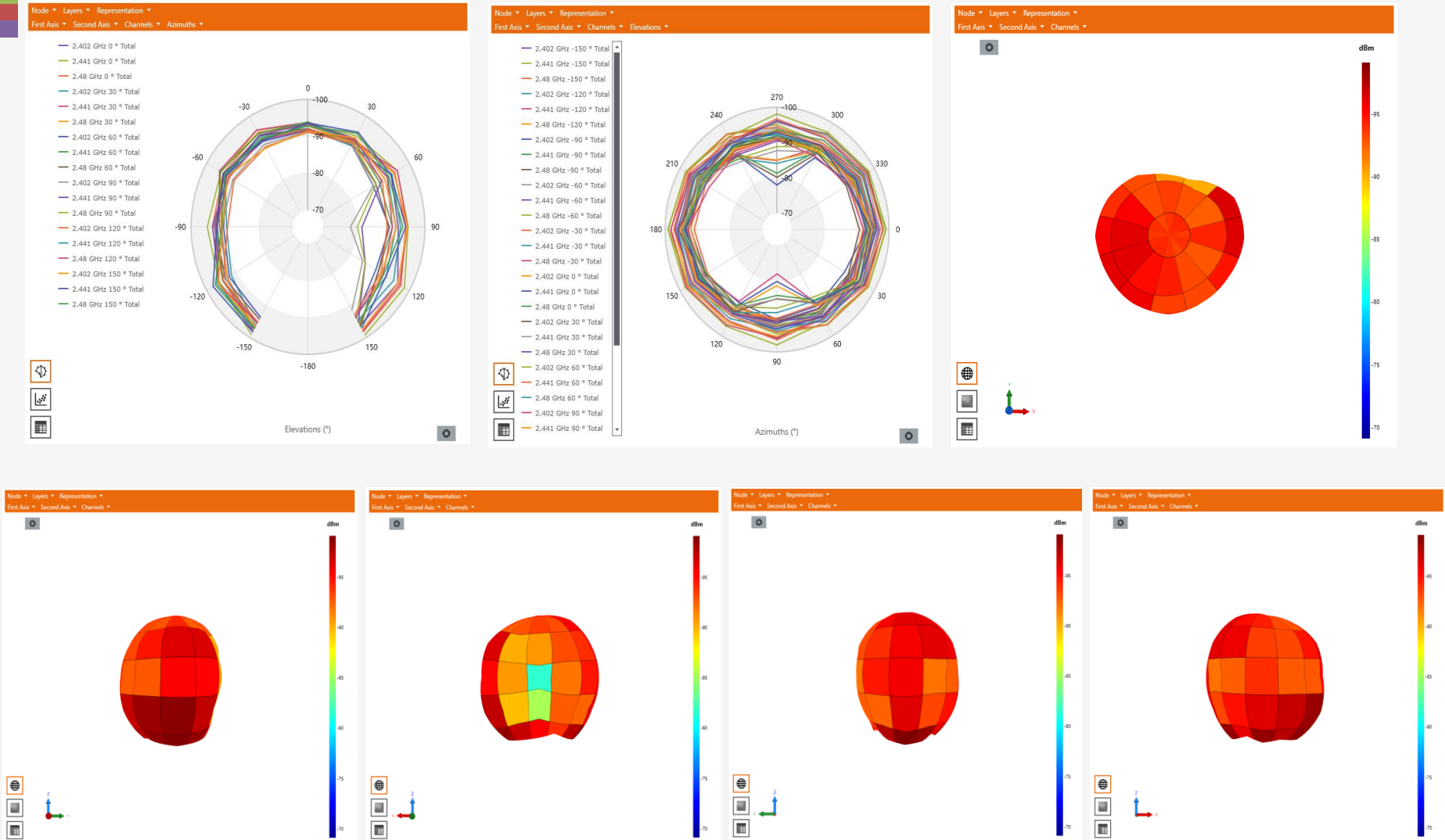
TRP



Antenna active data:

TIS

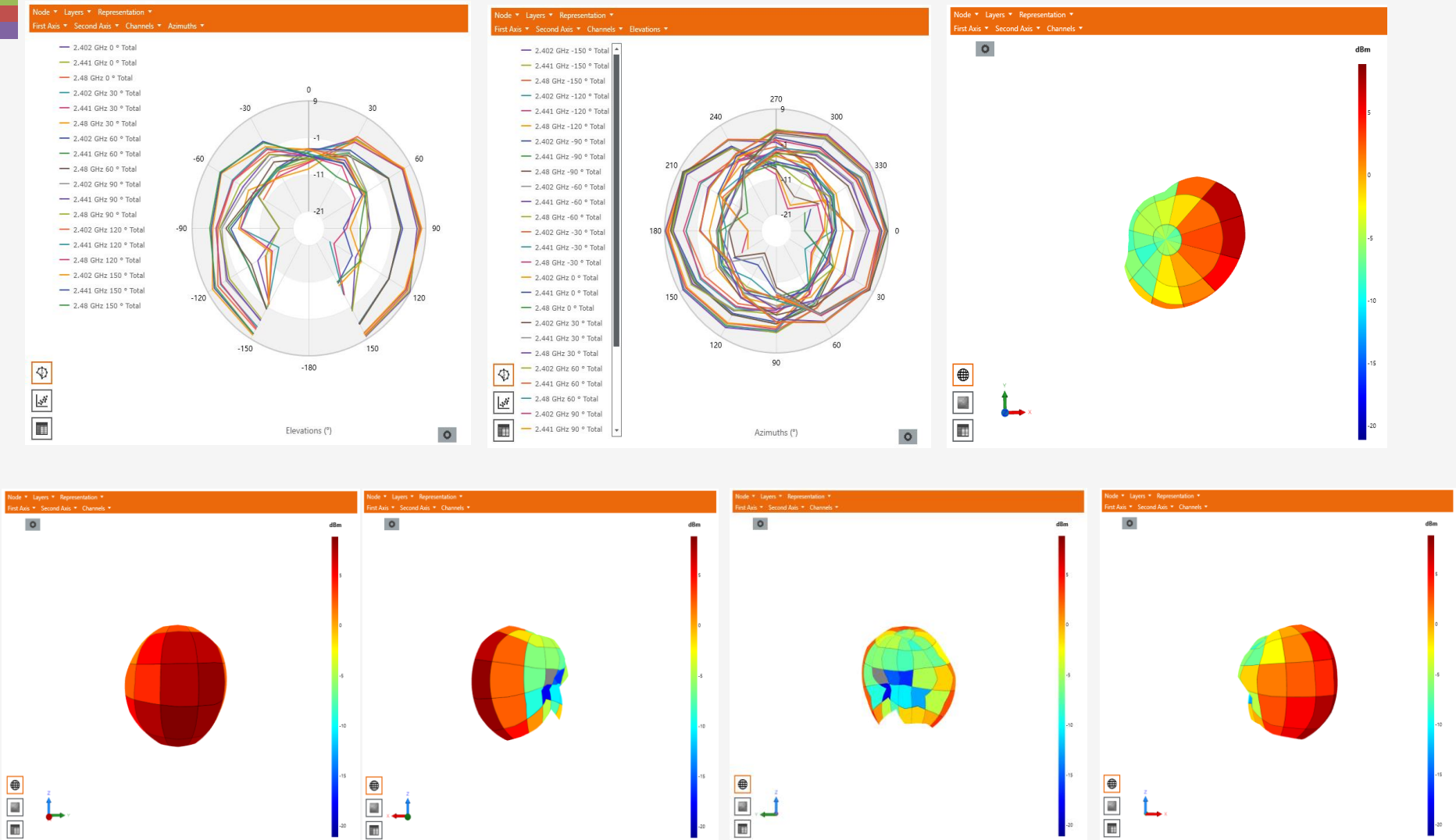
Whole field shape data - Free space - Main antenna



Antenna active data:

TRP

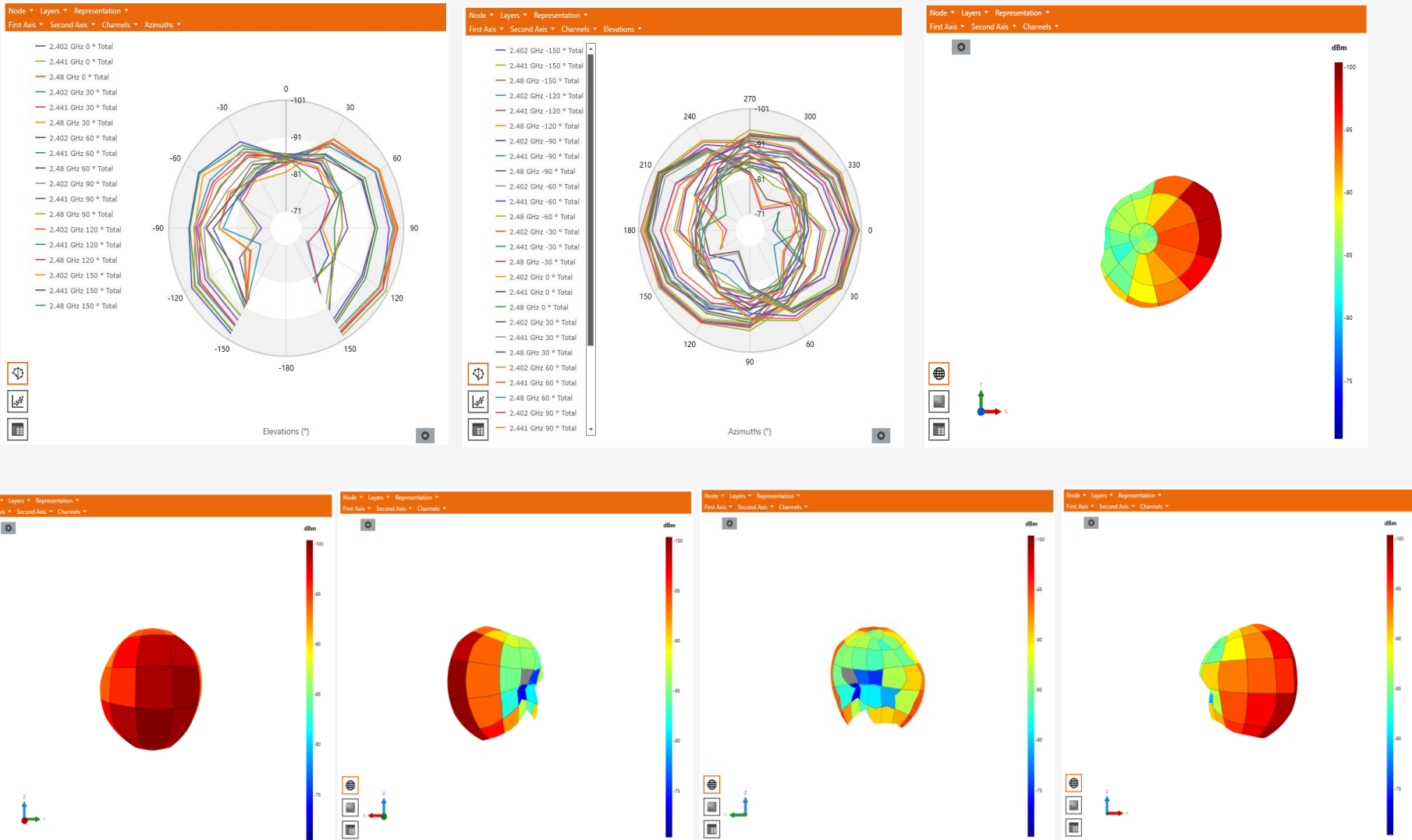
Whole field shape data - Head mold status - Main antenna



Antenna active data:

TIS

Whole field shape data - Head mold status - Main antenna



Thank you for watching

