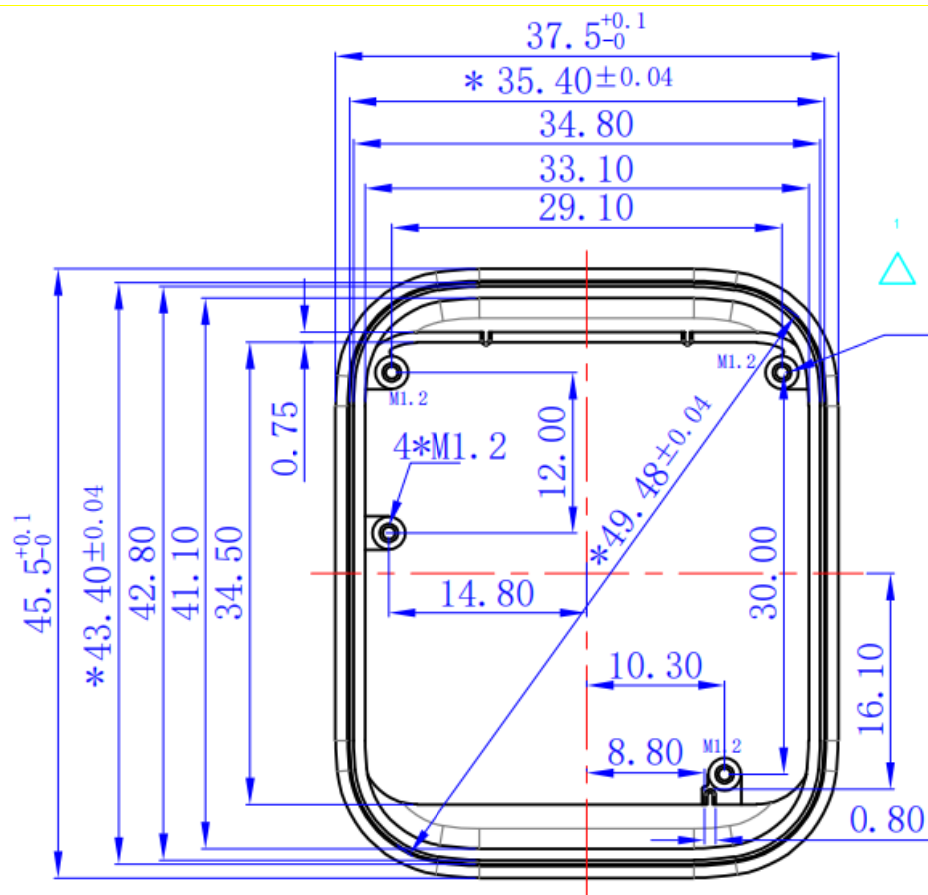
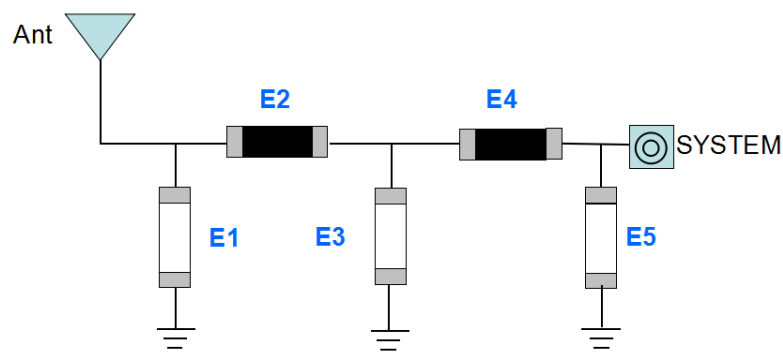




Electrical characteristics

Antenna-match

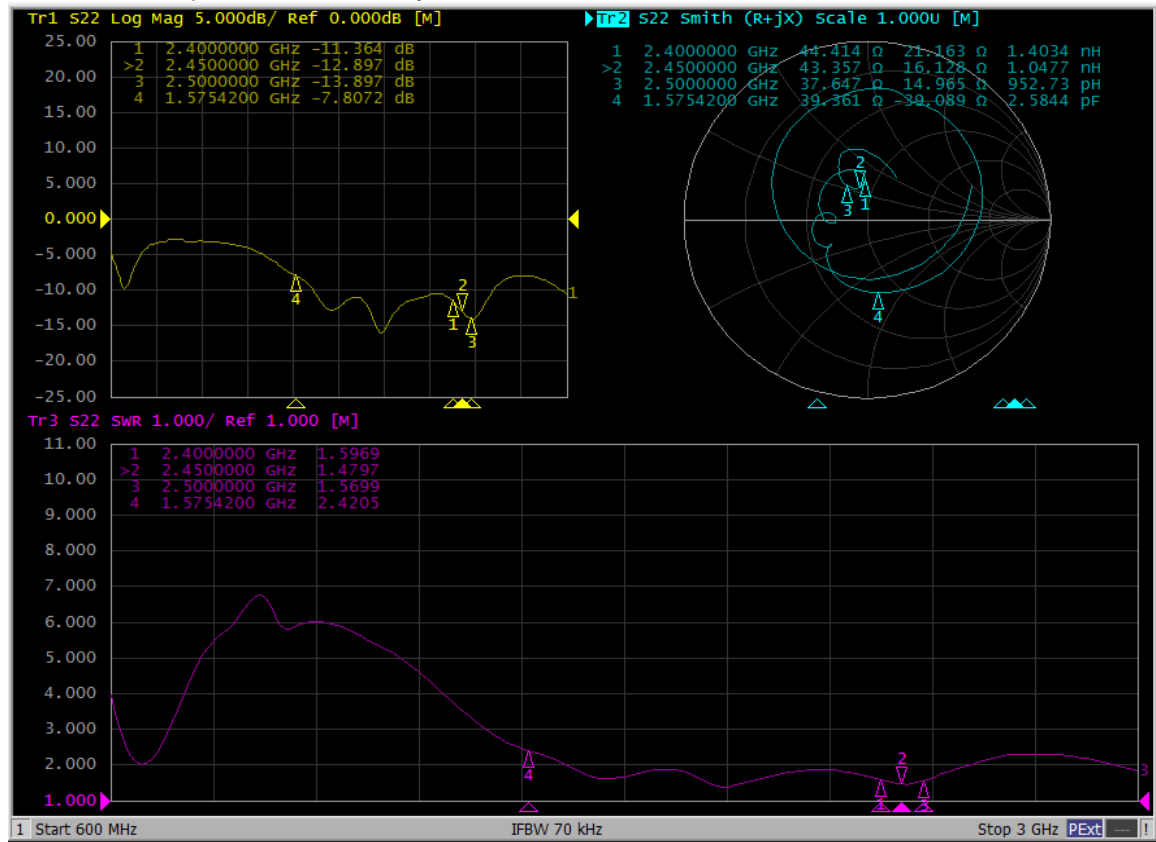


BT/GPS-match	
Element	Value
E1 (0201)	N/A
E2 (0201)	0 Ω
E3 (0201)	N/A
E4 (0201)	0 Ω
E5 (0201)	N/A

S11

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

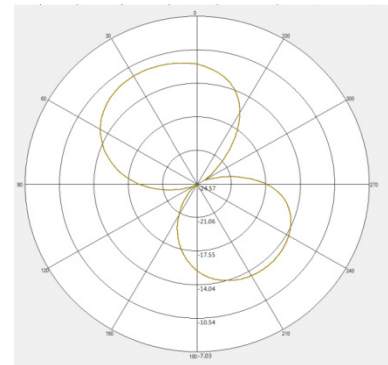
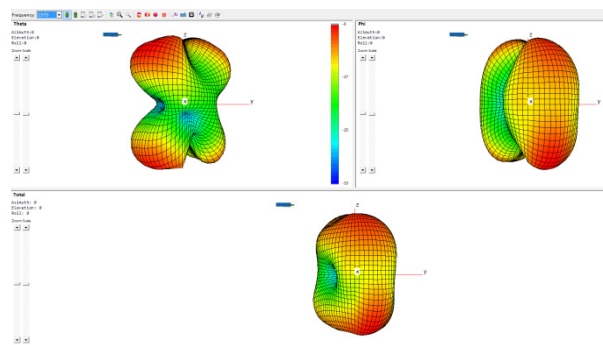


Passive efficiency-FS

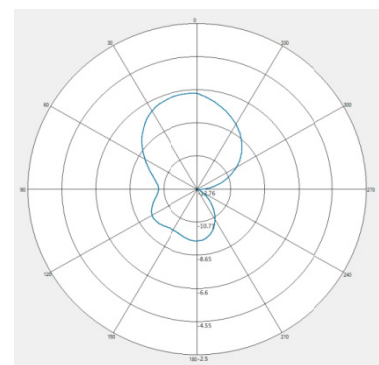
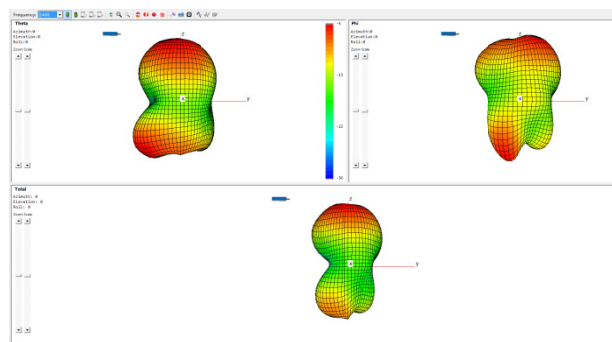
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1525	5.87	-12.31	-8.08
1535	6.36	-11.96	-7.6
1545	6.63	-11.78	-7.1
1555	6.97	-11.57	-6.81
1565	6.79	-11.68	-6.99
1575	6.69	-11.75	-7.04
1585	6.7	-11.74	-7.14
1595	6.57	-11.83	-7.23
1605	7.19	-11.43	-6.71
1615	7.15	-11.46	-6.98
1625	7.89	-11.03	-6.43

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	21.34	-6.71	-2.5
2410	21.06	-6.77	-2.63
2420	22.5	-6.48	-2.59
2430	23	-6.38	-2.71
2440	24.44	-6.12	-2.68
2450	25.13	-6	-2.56
2460	24.8	-6.06	-2.67
2470	25.91	-5.87	-2.37
2480	26.66	-5.74	-2.22
2490	27.99	-5.53	-2
2500	28.27	-5.49	-2.02

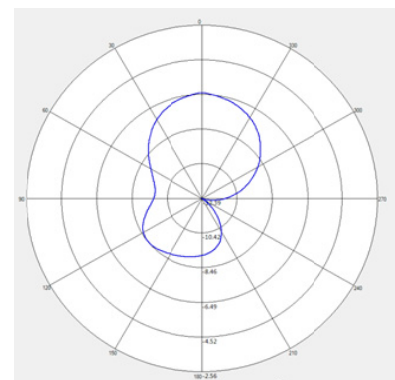
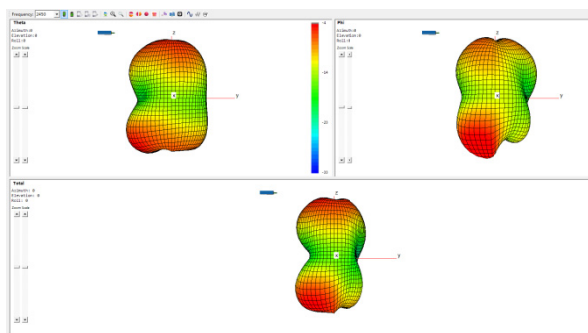
1575M



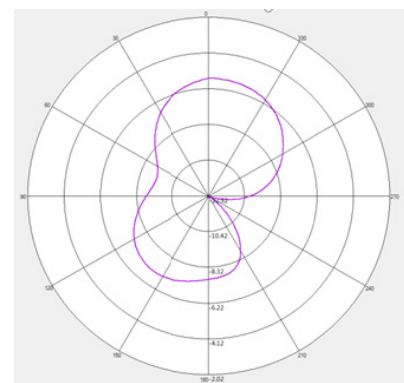
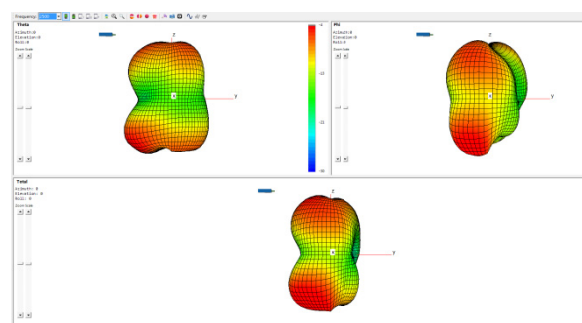
2400M



2450M



2500M

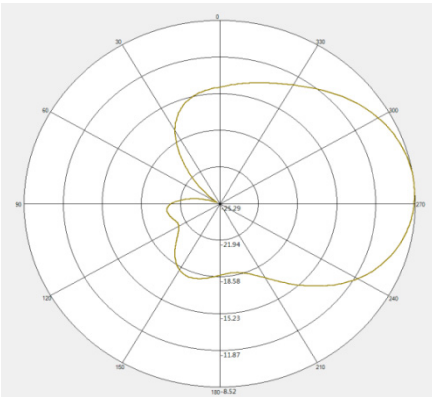
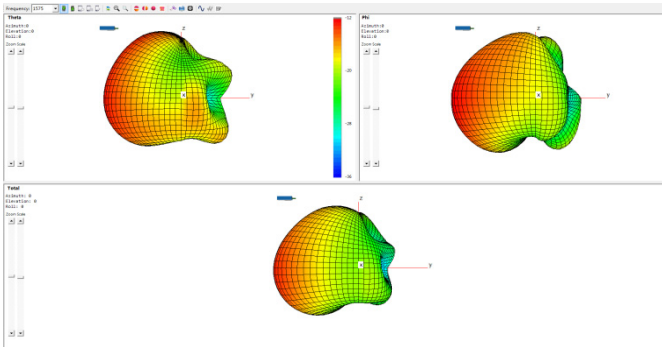


Passive efficiency-ARM

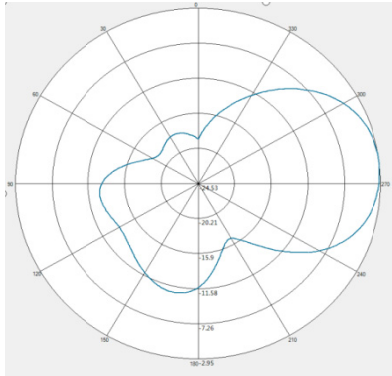
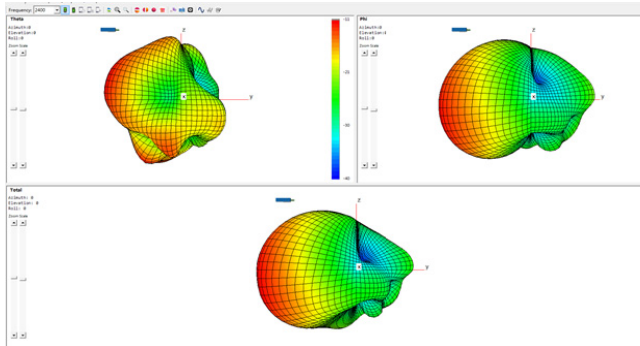
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1525	3.17	-14.99	-9.25
1535	3.47	-14.6	-8.84
1545	3.52	-14.54	-8.73
1555	3.63	-14.4	-8.45
1565	3.53	-14.53	-8.46
1575	3.41	-14.68	-8.61
1585	3.29	-14.83	-8.86
1595	3.18	-14.97	-9.05
1605	3.43	-14.64	-8.64
1615	3.43	-14.65	-8.5
1625	3.87	-14.12	-7.68

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	7.98	-10.98	-3.12
2410	7.56	-11.22	-3.48
2420	7.77	-11.1	-3.37
2430	7.94	-11	-3.31
2440	8.5	-10.71	-3.1
2450	8.63	-10.64	-3.07
2460	8.51	-10.7	-3.12
2470	8.76	-10.58	-3.02
2480	8.99	-10.46	-2.74
2490	9.16	-10.38	-2.62
2500	8.79	-10.56	-2.8

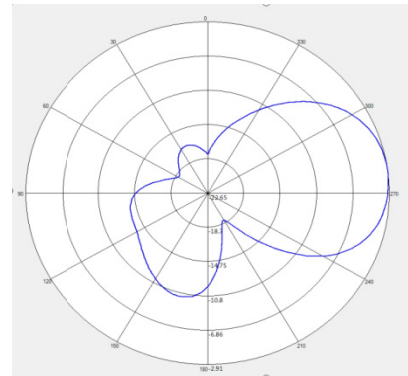
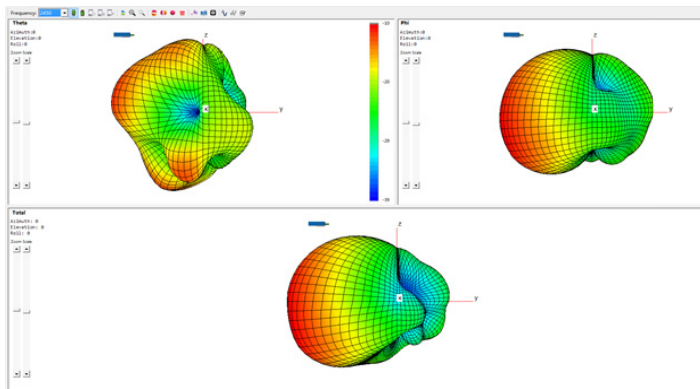
1575M



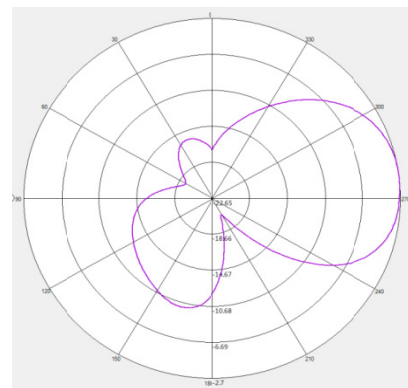
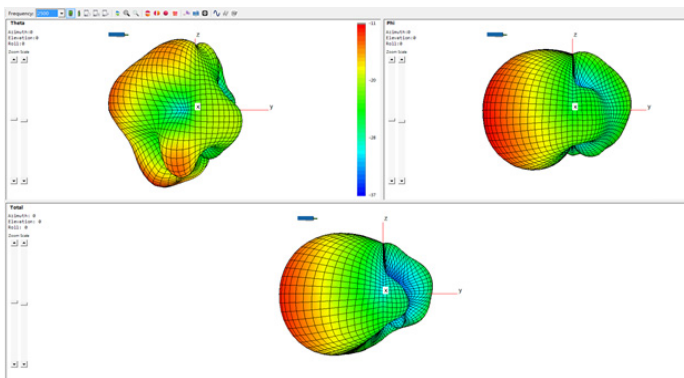
2400M



2450M



2500M



OTA-ARM

	ARM		
Test	BT		
Result	0	39	78
TRP (dBm)	-3.45	-3.52	-2.57
TIS (dBm)	-81.14	-81.94	-82.39

GPS/ARM

GPS-TIS
-144.39