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D135 Antenna test report V1

DATE

2025/1/5

Main objectives of
this report:

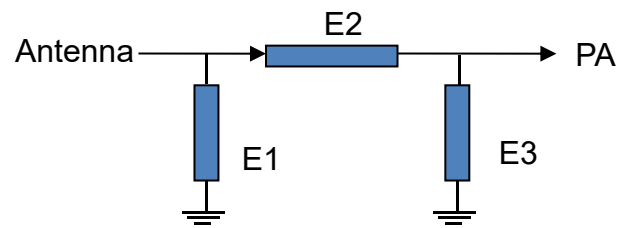
Optimal matching

Main conclusions of
this report:

Antenna	band	material	Performance requirement
BT	2400-2480MHz	onboard	

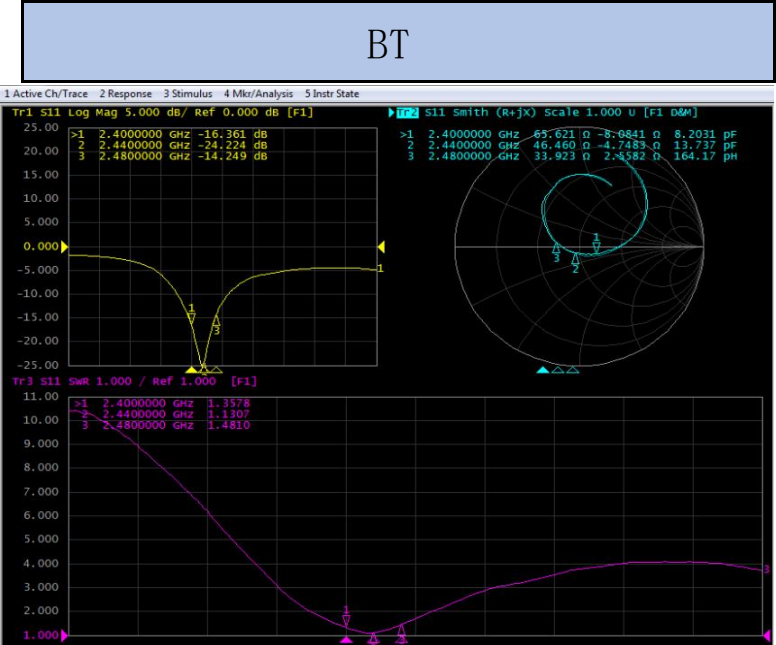
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Antenna end matching circuit:



BT	
Element	
E1(0402)	
E2(0402)	1nH
E3(0402)	1.2P

Antenna passive S11 parameter test:

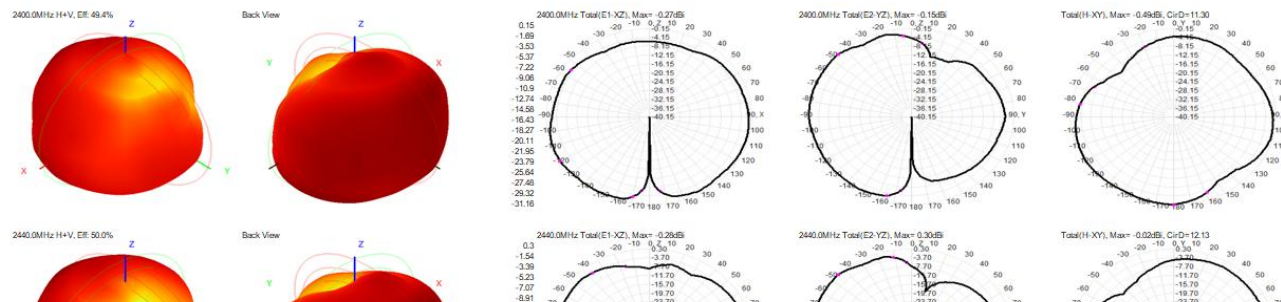


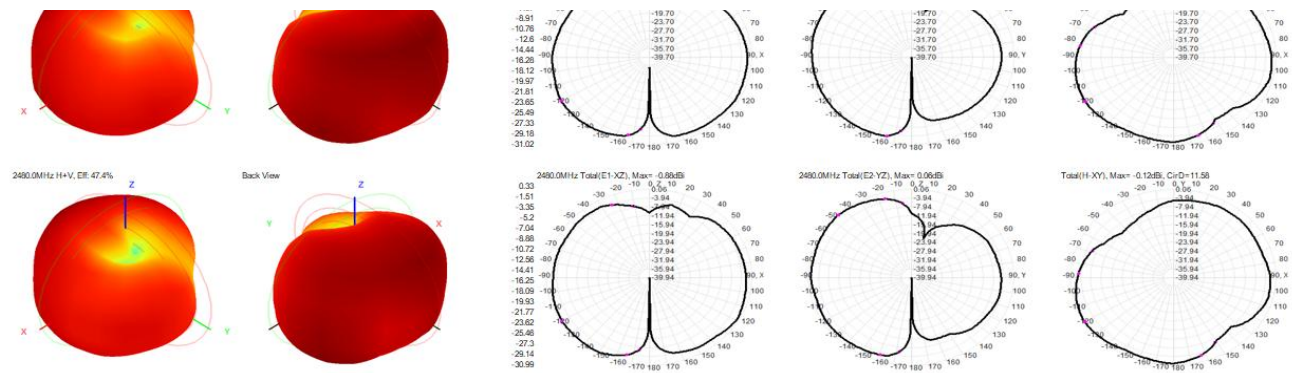
Freq (MHz)	2400	2440	2480
SWR	1.35	1.13	1.48
Log Mag	-16.36	-24.22	-14.25

Antenna passive efficiency and gain test:

BT		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	0.15	49.35
2410	0.23	49.71
2420	0.34	49.94
2430	0.27	50.13
2440	0.30	50.00
2450	0.33	50.06
2460	0.32	49.05
2470	0.24	48.21
2480	0.33	47.41
2490	0.21	46.74
2500	0.05	46.13

Antenna passive radiation pattern:





Antenna OTA test:

After optimization and matching		
Channels	TRP	TIS
0	-0.6	-89.82
39	0.08	-90.1
78	-0.47	-90.26

Antenna position and matching picture:

