

深圳市凌度汽车电子有限公司

Shenzhen Lingdu Automotive Electronics Co., Ltd

Antenna specification

Project Title		Antenna Version	V03
Data	2024/6/2	Report Version	A1
Engineer		Telephone	

History

Version	Report Date	Revision Description	Prepared by
A1	2024. 6. 2	Antenna specification	

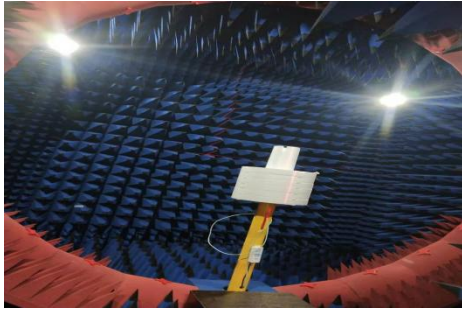
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Introduction to project debugging

Project Title				
Antenna type	onboard			
Frequency band and antenna material	Antenna	Frequency		material
		BLE	2. 4G-2. 48G	FR4
demand	Execute according to project requirements			

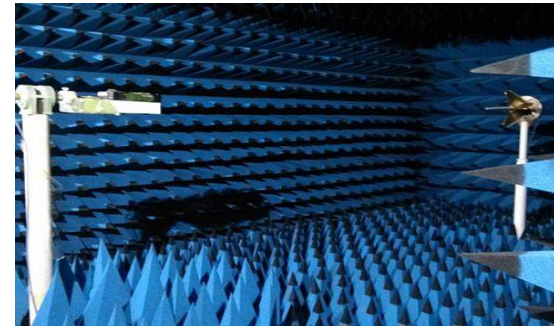
Test equipment description



24probe anechoic chamber



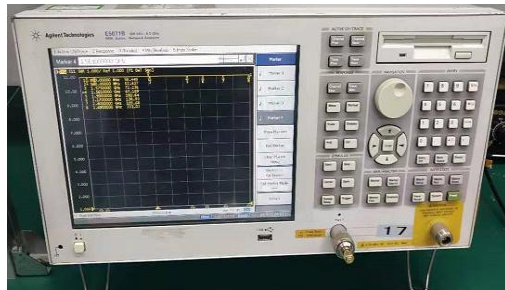
CMW500



7*4*3M ETS anechoic chamber



Agilent 8960



Agilent E5071B



high-low temperature chamber

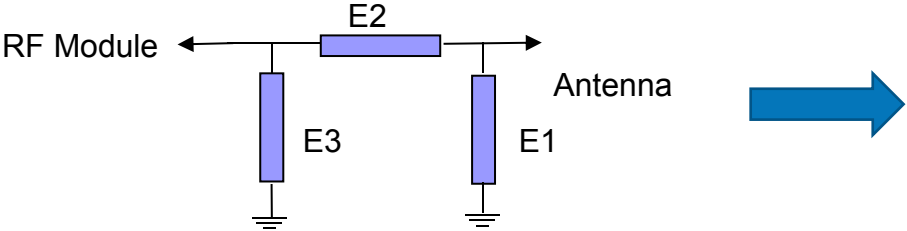


MT8820C

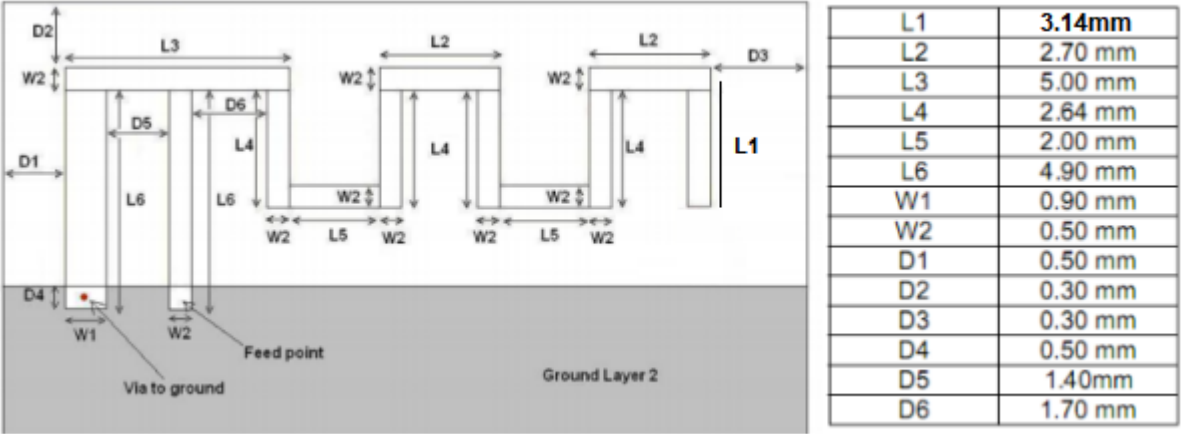


HP8753ES

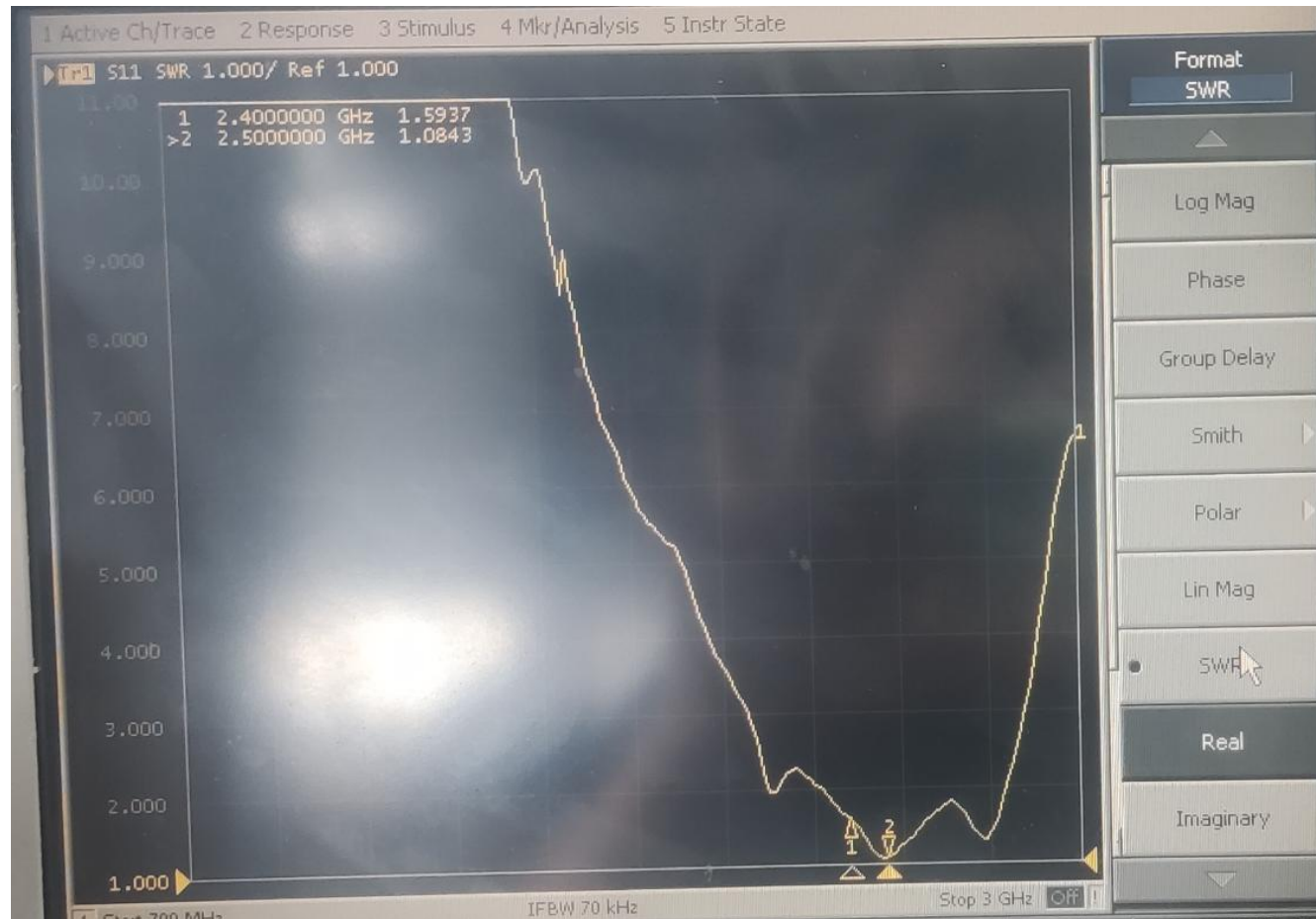
Matching circuit specification



BLE	Element	Value
	E1 (0402)	0.5PF
	E2 (0402)	0R
	E3 (0402)	N/A



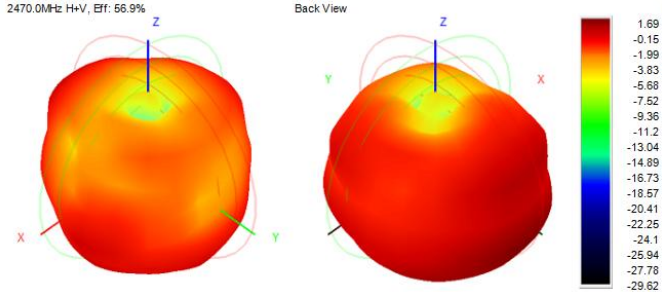
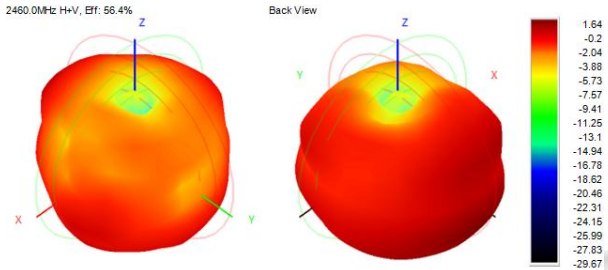
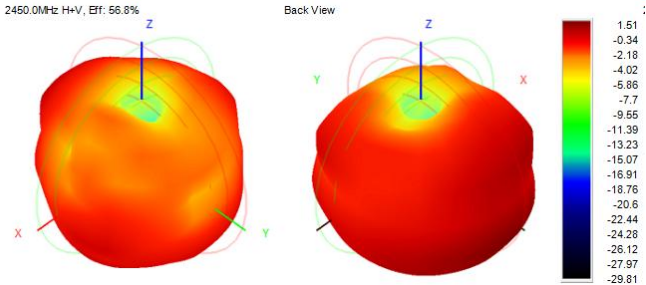
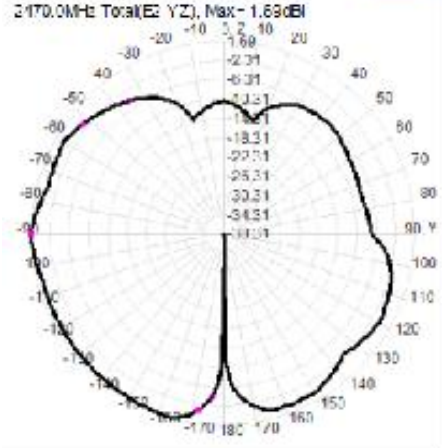
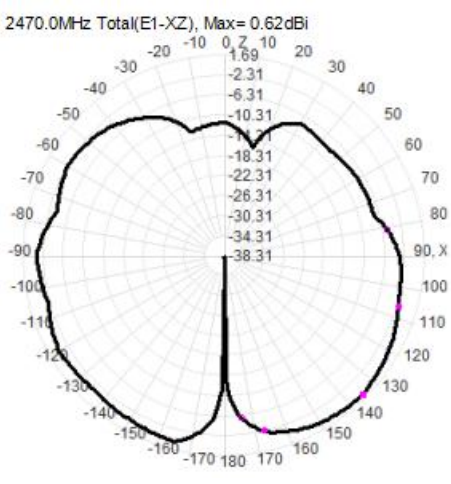
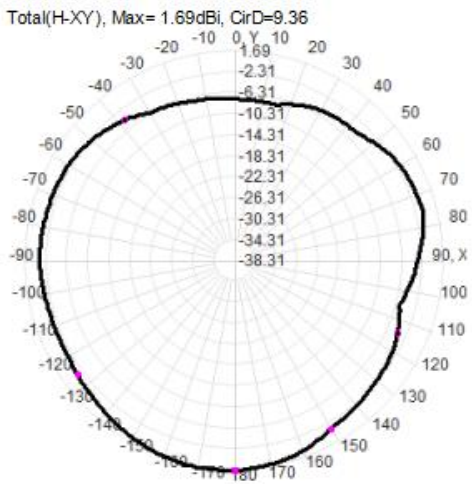
Antenna standing wave

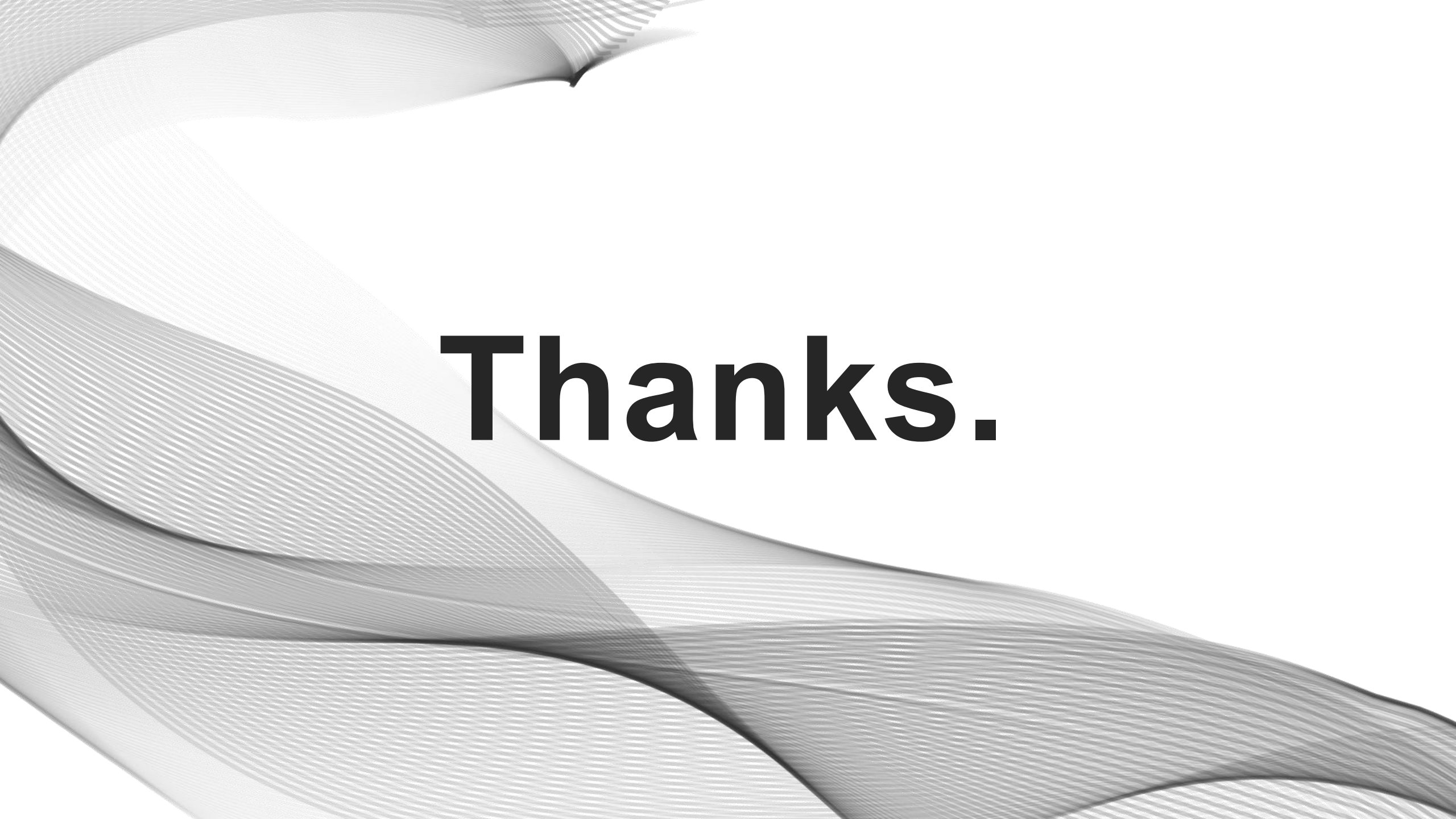


Antenna test data

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-2.81	1.10	52.31
2410	-2.75	1.21	51.14
2420	-2.65	1.29	52.43
2430	-2.55	1.25	52.15
2440	-2.54	1.22	52.57
2450	-2.46	1.51	53.15
2460	-2.49	1.64	53.38
2470	-2.45	1.69	53.93
2480	-2.58	1.43	52.21
2490	-2.60	1.28	52.18
2500	-2.69	1.46	52.45

2D/3D图





Thanks.