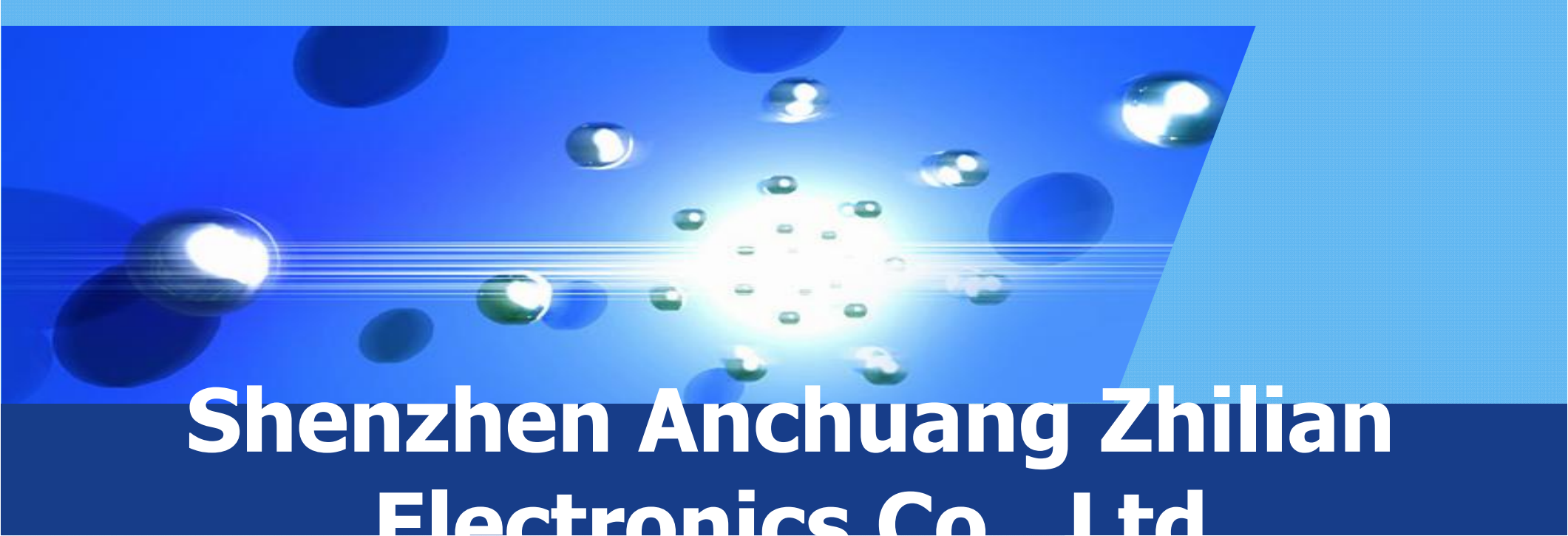




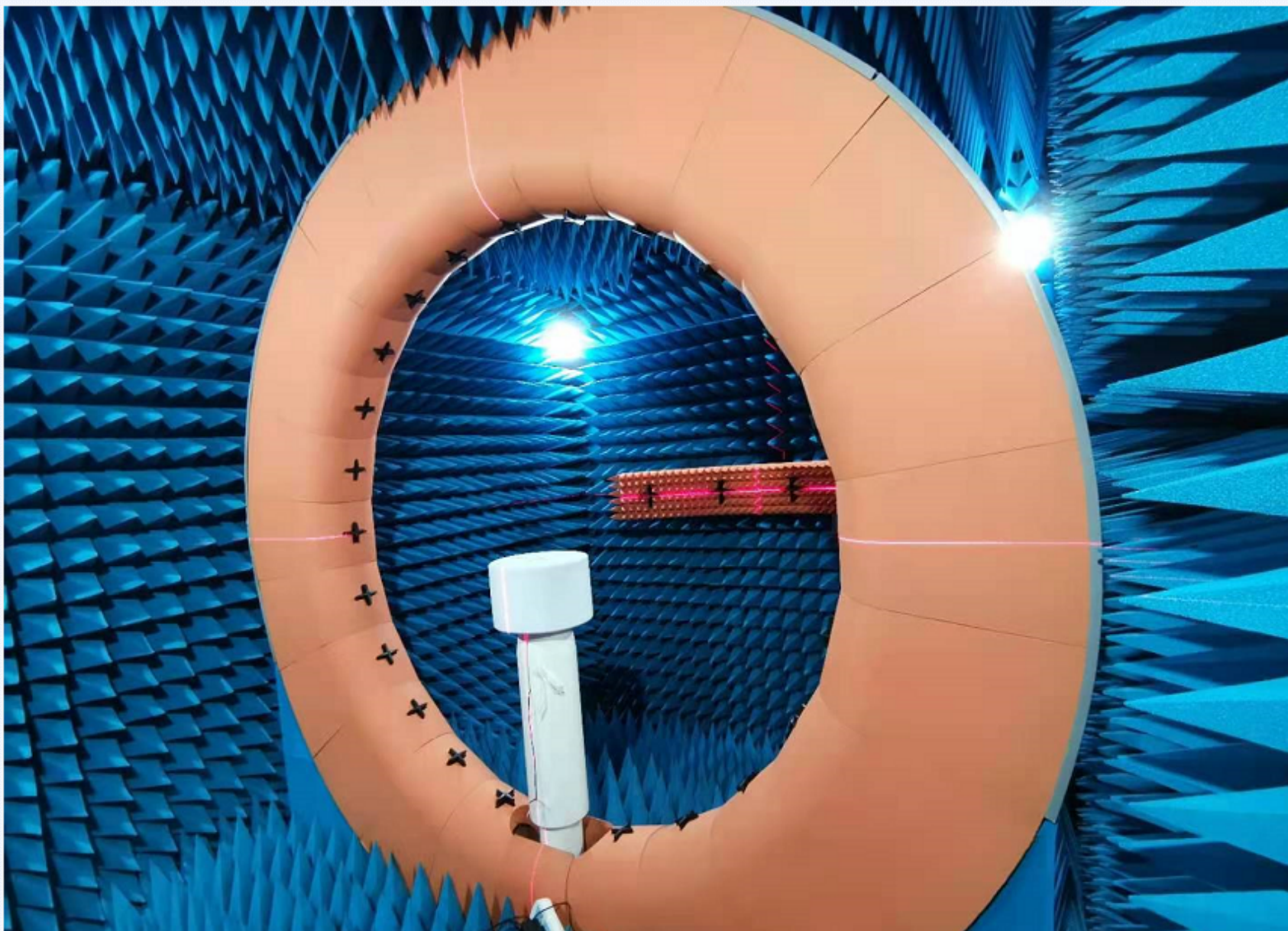
Shenzhen Anchuang Zhilian Electronics Co., Ltd

Antenna debugging report

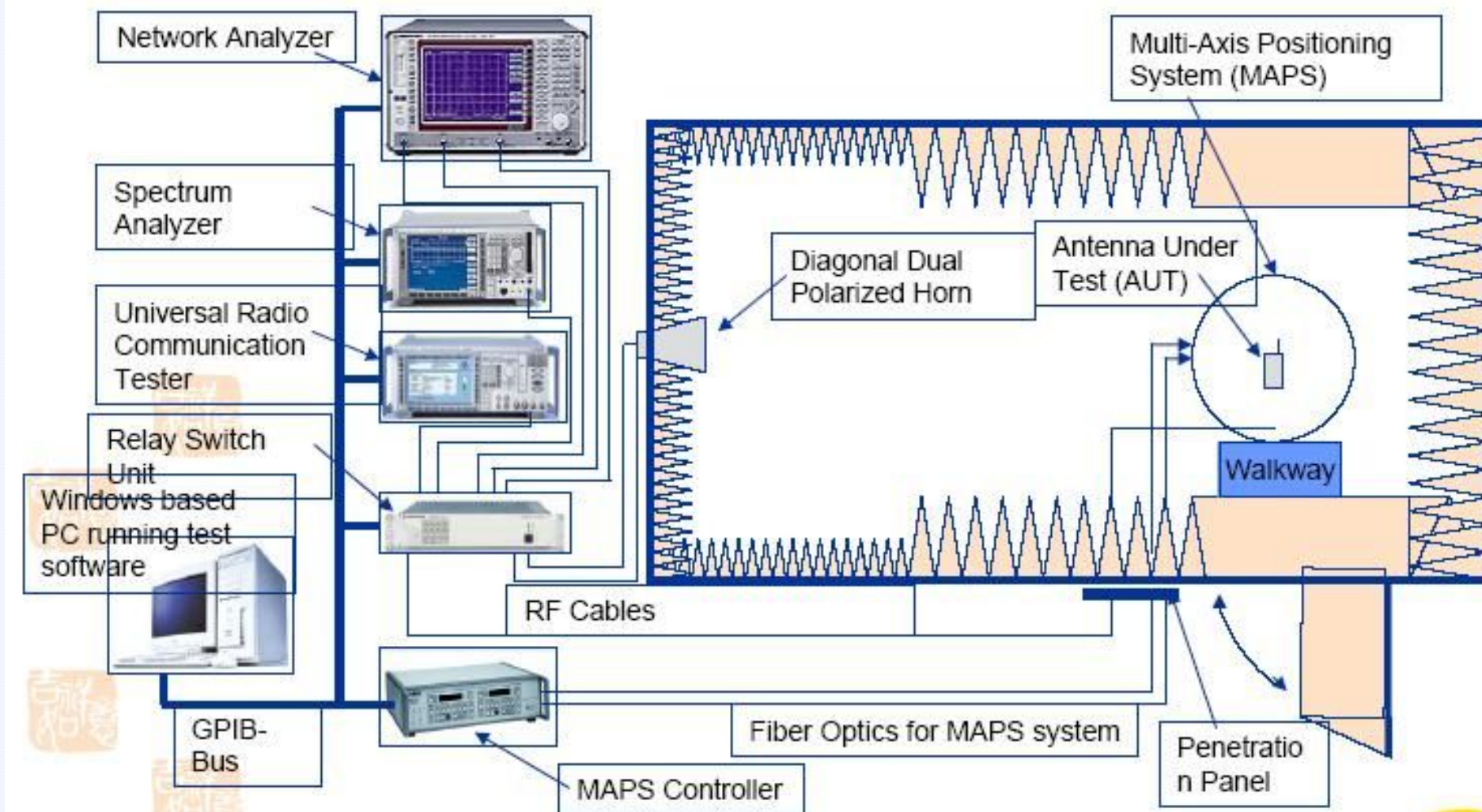
project information

custom:	Regulus	Project - Motherboard	Shotgun	date	2024. 7. 2
Frequency band	2400-2500 5100-5800				
Antenna Structure	FPC+Black 1.13 generation Terminal 100MM black below				
RF Engineering	Yi Longhui				
Structural engineering	Liu Gong				
Report version	V1.0				

SATIMOdarkroom



test system

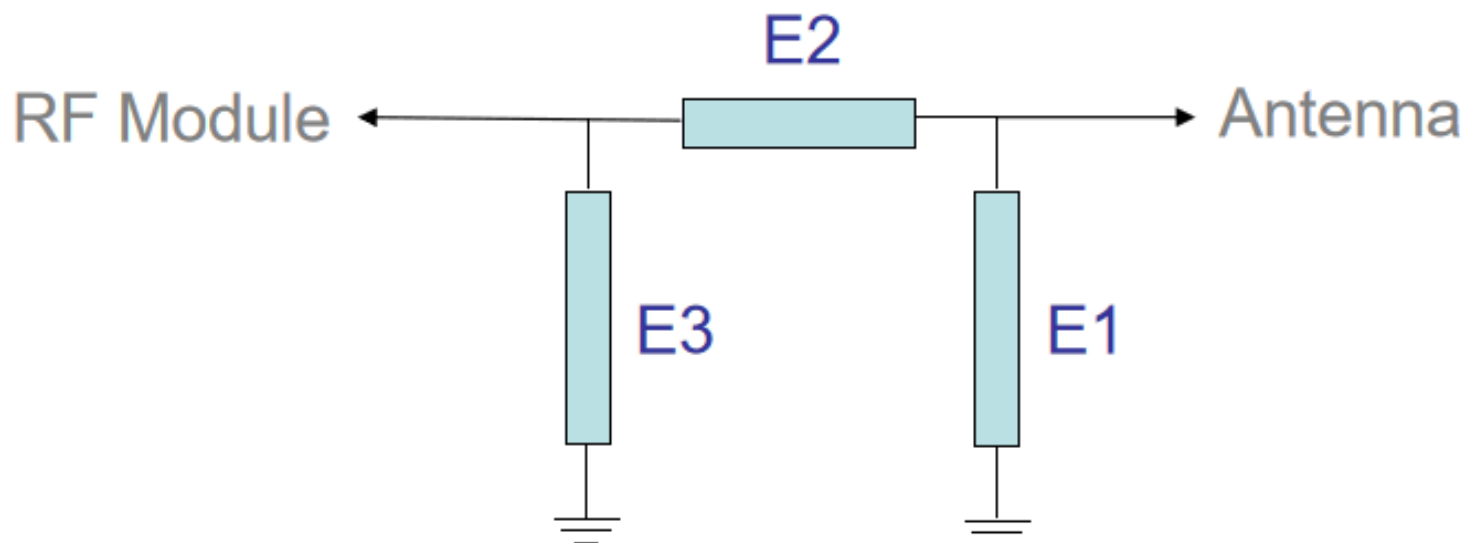


testing environment	
testing environment	XH-IOE MPS2440 Test System
ambient temperature	23°C
ambient humidity	52%
Ambient air pressure	101KPa

- 1、 product drawing
- 2、 matching circuit
- 3、 test data



matching circuit



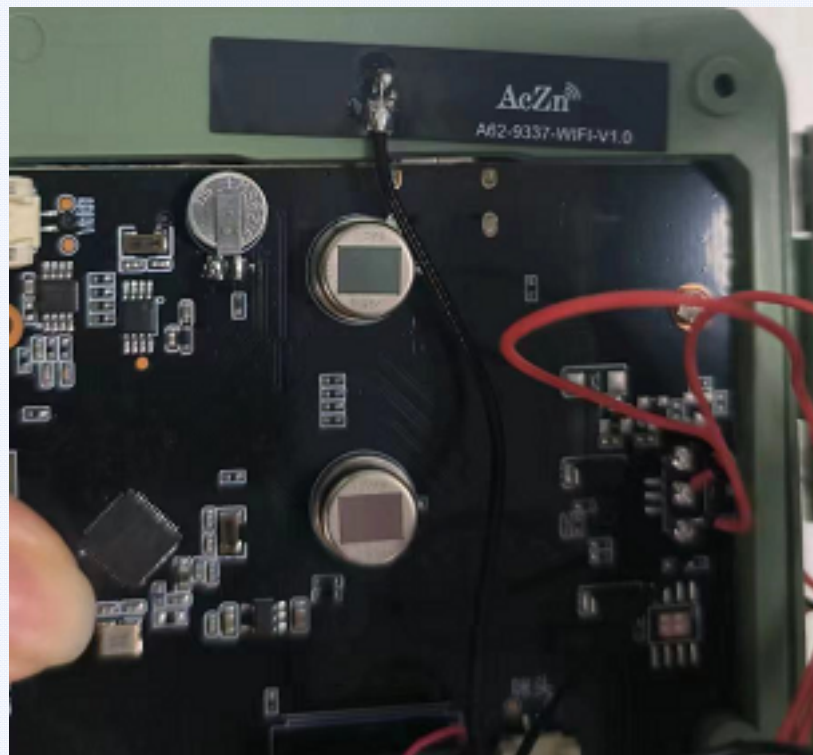
Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
No changes made to the original match	

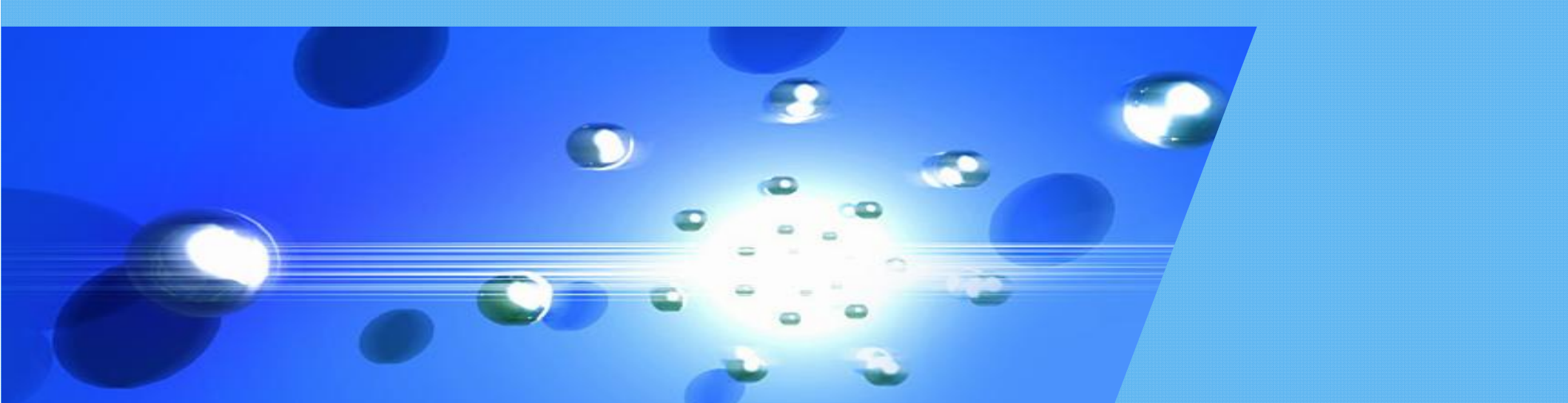
Passive test data

Frequency	Efficiency	Efficiency	Gain/ dBi
2400	-2.33	58.48	2.41
2410	-2.26	59.43	2.54
2420	-2.06	62.23	2.57
2430	-2	63.1	2.87
2440	-1.82	65.77	3.01
2450	-1.66	68.23	3.27
2460	-1.63	68.71	3.22
2470	-1.6	69.18	3.28
2480	-1.67	68.08	3.02
2490	-1.77	66.53	2.88
2500	-1.83	65.61	2.48

5100	-2.15	60.95	5.3
5150	-1.89	64.71	5.62
5200	-1.72	67.3	5.76
5250	-1.7	67.61	5.75
5300	-1.56	69.82	5.64
5350	-1.65	68.39	5.24
5400	-1.52	70.47	5.44
5450	-1.45	71.61	5.38
5500	-1.57	69.66	5.17
5550	-1.56	69.82	5.09
5600	-1.78	66.37	4.84
5650	-1.69	67.76	4.72
5700	-1.79	66.22	4.68
5750	-1.91	64.42	4.51
5800	-1.82	65.77	4.44

Assembly drawing





Thank You !

