

KA030 keyboard project BT antenna debug report

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Report Version: 20241225 V1.1



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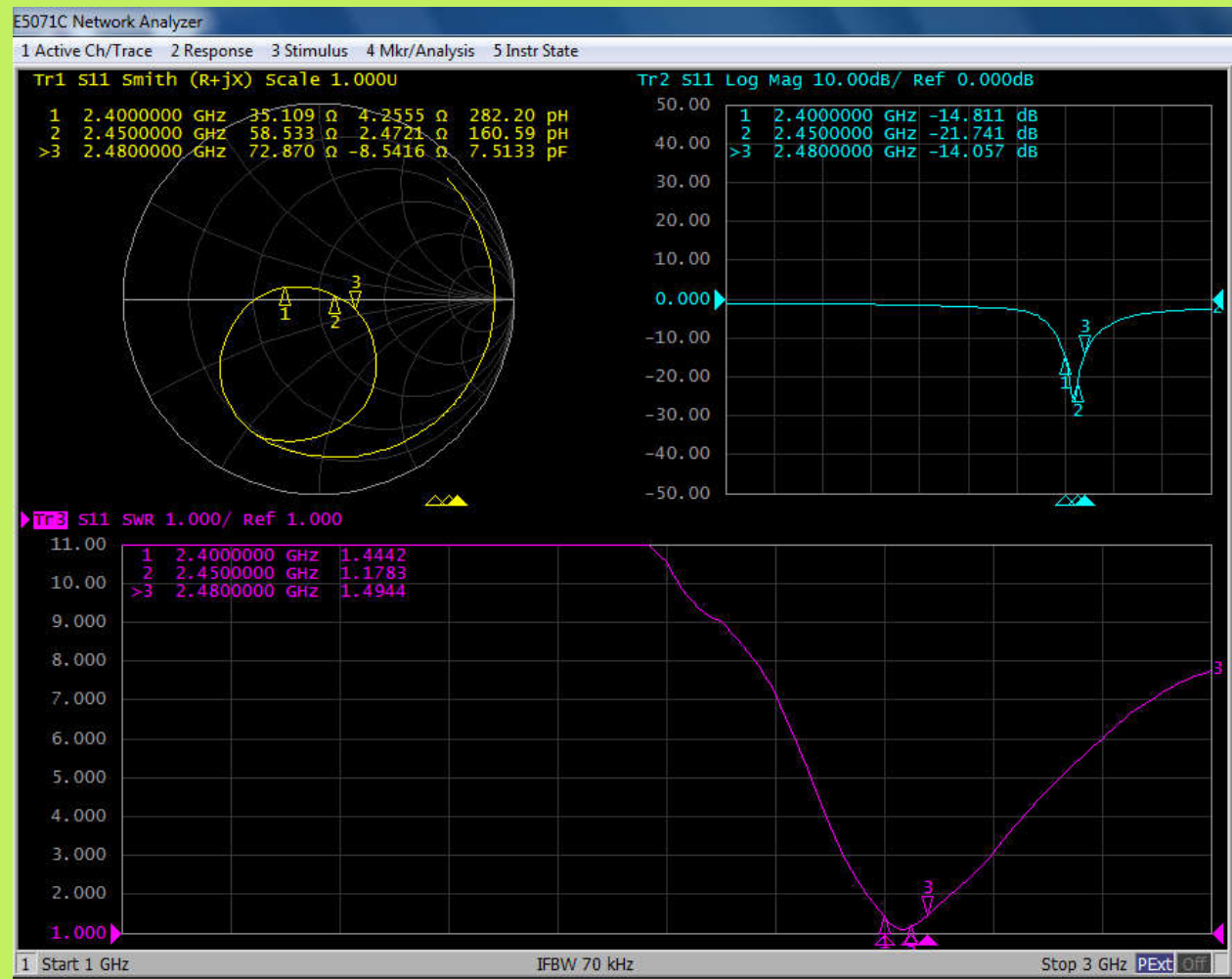
Introduction to project development

	Band		Antenna status(Type)	Antenna form	Match the changes
Antenna	BT	2.4GHz~2.48GHz	PCB	PIFA	Yes
Prototype status	EVT prototype		Environmental Treatment	3 environmental treatments	
Antenna manufacturers	Shenzhen Qianhai New SilkRoad Technology Co.,Ltd.				
Antenna manufacturer's address	4th Floor, Building 3, Xili Nangang First Industrial Zone, Nanshan District, Shenzhen				

Report version summary

version	date	Content Overview
V1.0	20241125	T0 prototype antenna debugging
V1.1	20250120	EVT trial production prototype antenna verification

BT antenna debugging S parameters



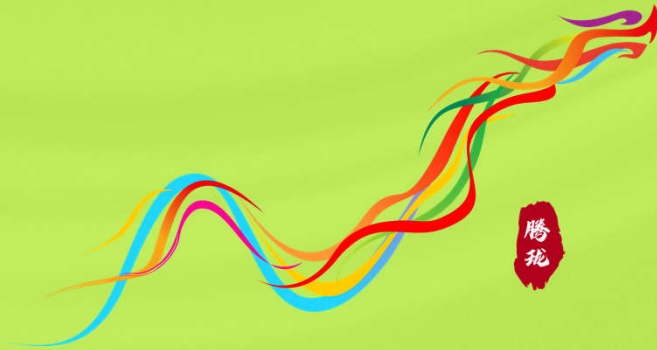
EVT (BT) Bluetooth antenna			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain
2400	40%	-3.97	-0.08
2410	41%	-3.91	0.09
2420	42%	-3.81	0.15
2430	43%	-3.69	0.24
2440	44%	-3.54	0.31
2450	45%	-3.42	0.45
2460	46%	-3.40	0.53
2470	46%	-3.34	0.55
2480	45%	-3.42	0.46
Avg	43.60%	-3.61	0.3

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