



ShenZhen Huaxinwei communication technology Co.,Ltd.

Antenna Specification

The name of the customer: **Astera Manufacturing Limited**

The name of the project: **Eris**

Antenna bands: **865-925M 2.4G**

Part number: **ELT33113**

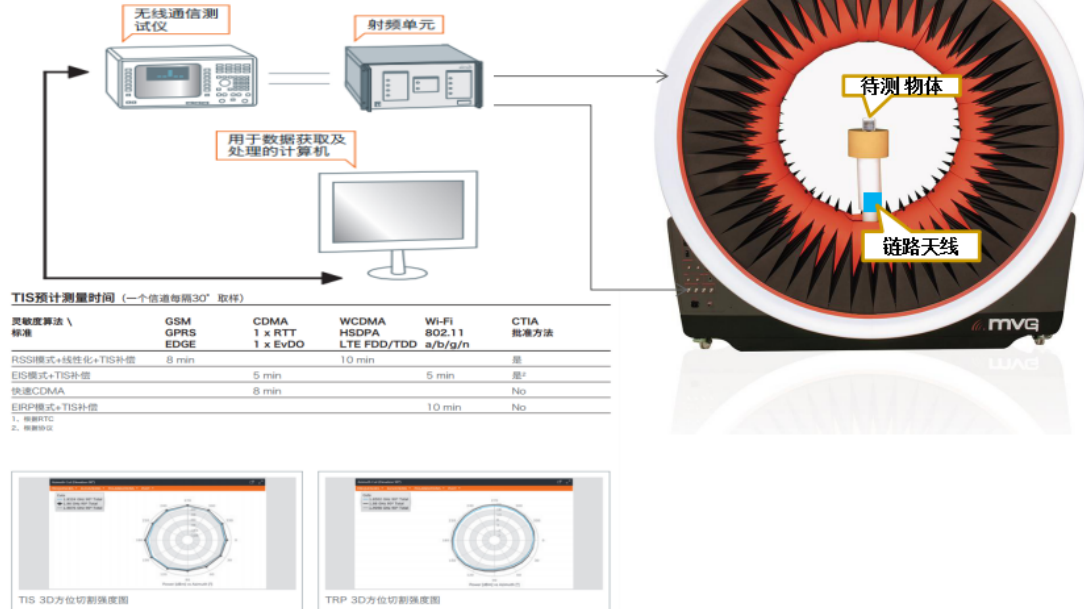
Date: **2024-5-6**

RF engineer:		ME engineer:		Audit:	
Customer confirmation:		Customer Audits:			

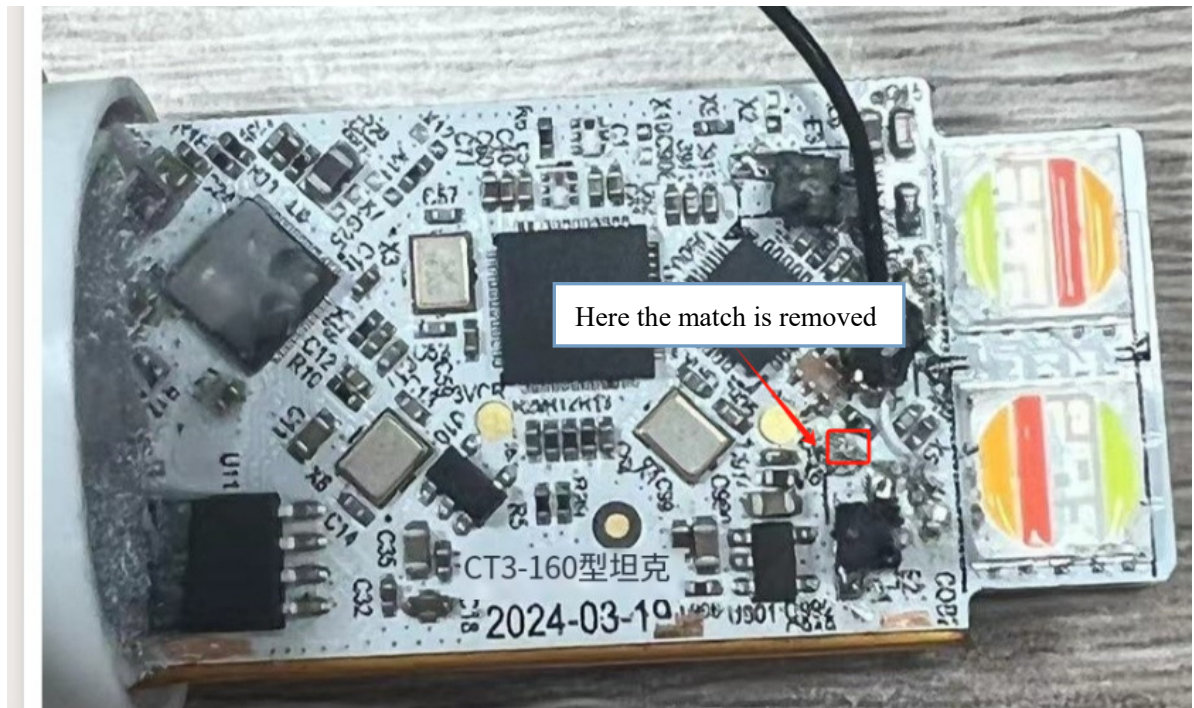
The name of the project: Eris	producer: linda	Eris-APP-RA
Edition : A	Date: 2024-5-6	
Address: 203, Building C, Building 5#, Skyworth Innovation Valley, Tangtou No. 1 Road, Shiyan Street, Bao'an District, Shenzhen		

Test the environment and equipment

系统品牌: MVG(SATIMO) 测量功能:增益 • 方向图波束宽度交叉极化分辨率旁瓣电平3D腔体反射率在任何极化的腔体反射率(直线或圆弧) 天线效率 TRP, TIS, EIRP和EIS. 频段:StarLab 650兆赫至6千兆赫



Match changes



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865-925M S11 (SWR)



865-924M antenna efficiency		
Freq	Effi	Gain
(MHz)	(dB)	(dBi)
850	17.78	-3.21
860	18.61	-2.78
870	19.32	-2.34
880	20.08	-2.11
890	21.41	-2.07
900	22.63	-1.9
910	23.27	-1.78
920	24.88	-1.75
930	21.5	-2.16
940	20.4	-2.72
950	19.72	-3.05
960	17.96	-3.34

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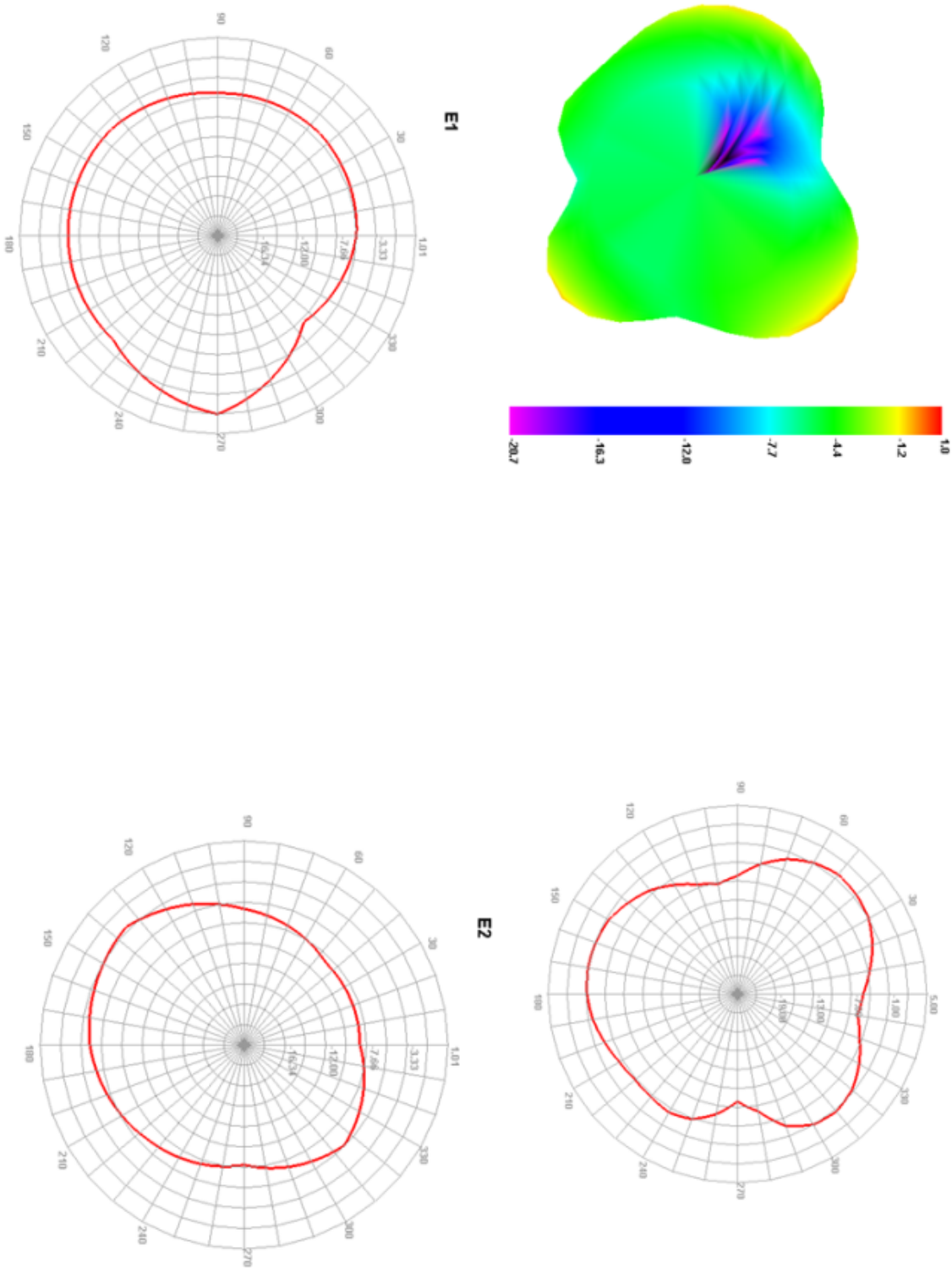
2.4G S11 (SWR)



BT antenna efficiency		
Freq	Effi	Gain
(MHz)	(dB)	(dBi)
2400	40.19	0.66
2410	40.19	0.7
2420	39.05	0.75
2430	40.58	0.79
2440	41.41	0.82
2450	38.9	0.68
2460	38.46	0.48
2470	36.7	0.58
2480	36.56	0.46
2490	36.21	0.35
2500	34.53	0.17

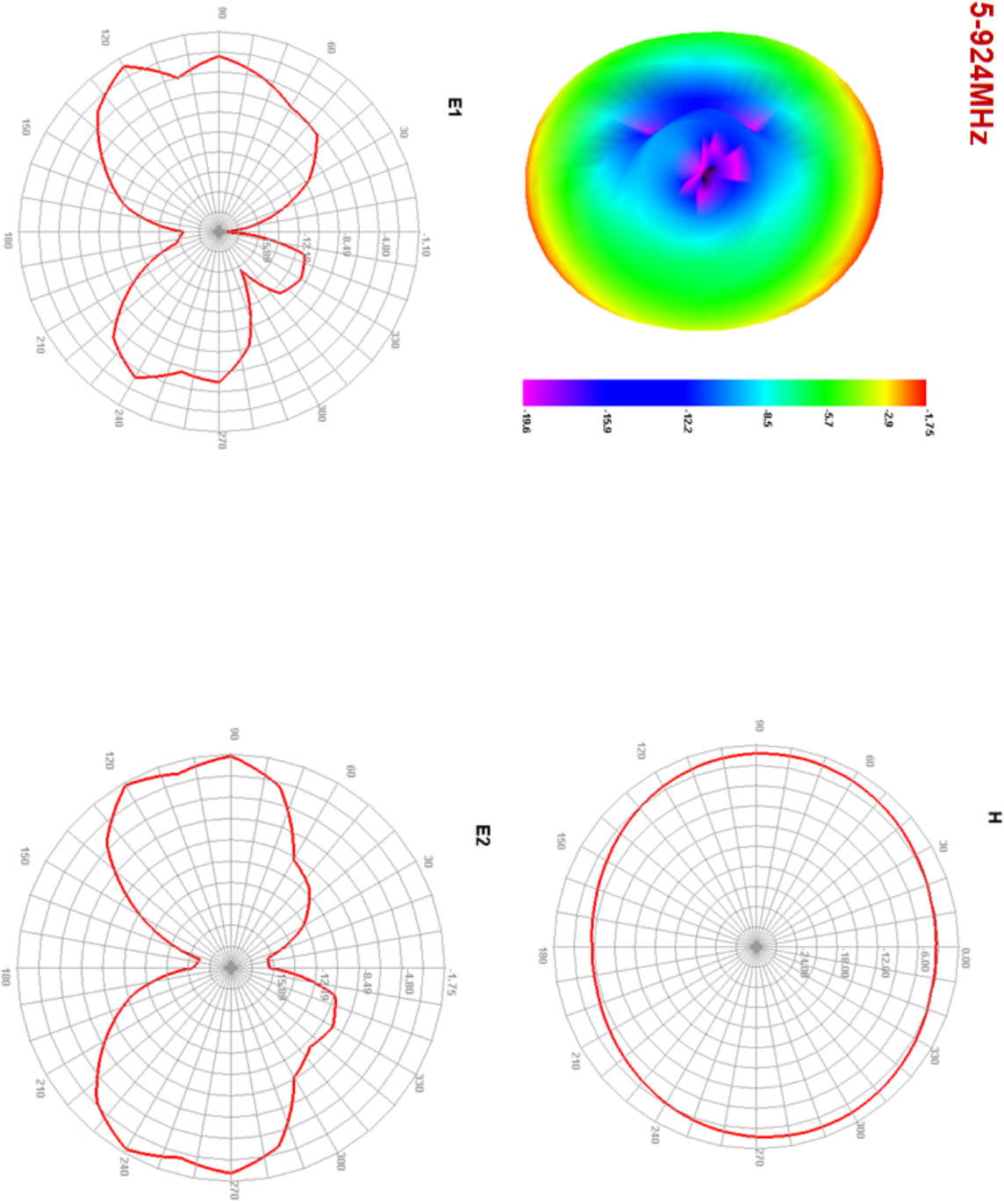
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2.4G



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865-924MHZ

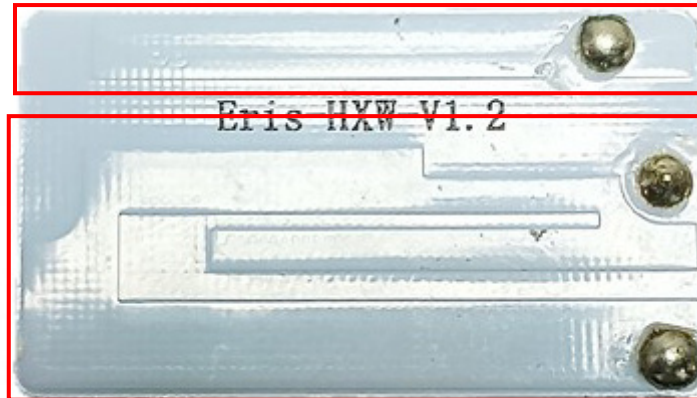


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Antenna Measurement Results (EU/US)					
Antenna direction	50 meters	80 meters	100 meters	120 meters	150 meters
front	Control OK, no delay	Control OK, no delay	Control OK, no delay	Control OK, 1S delay	Control OK, 2S delay
back	Control OK, no delay	Control OK, no delay	Control OK, 1S delay	Control OK, 2-3S delay	
side	Control OK, no delay	Control OK, no delay	Control OK, no delay	Control OK, 1S delay	Control OK, 1-2S delay

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Antenna Photo:



BLE/2.4G RX ANT

UHF ANT

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