

SPECIFICATION FOR APPROVAL

CUST OMER: Shenzhen Ai-Thinker Technology Co., Ltd

CUS PART NO: Ra-03SCH

PART NAME: 868MHz Antenna

Edition: 1.0

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Product specification

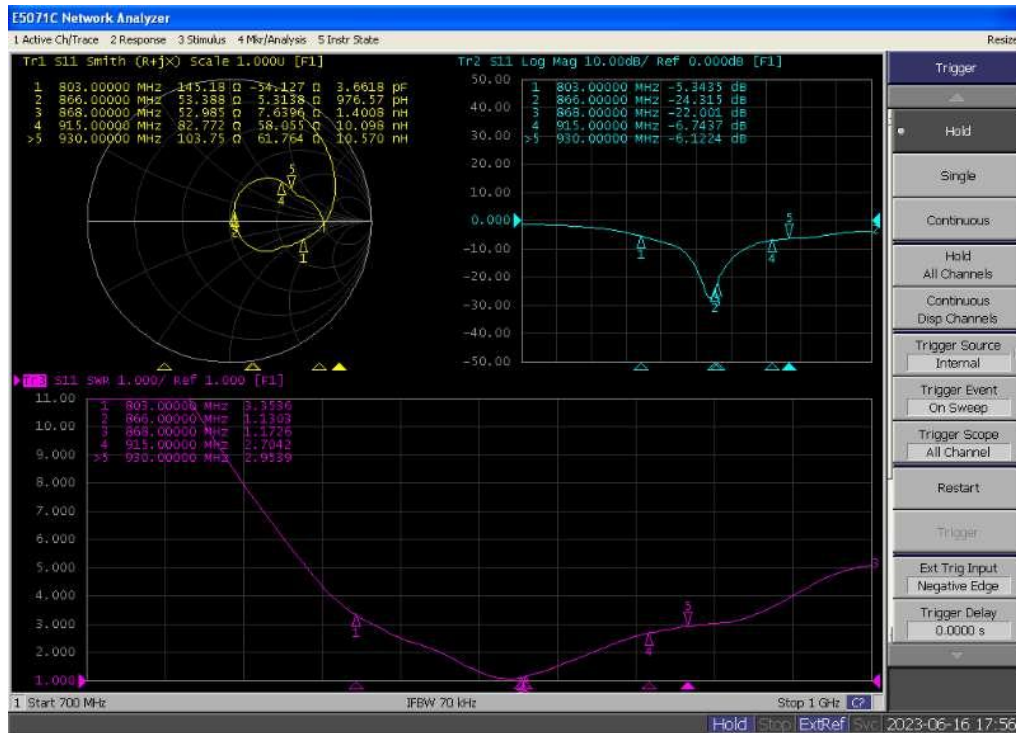
1. Antenna shape



2. Performance parameter

Name	<u>Antenna</u>
Model Type	Glue rod antenna
ELECTRICAL SPECTFICATIONS	
Frenquency Range	803-933MHz
Band Width	100MHz
Impedance	50 Ω
VSWR	< 3.5
Max Gain	2.33dBi
Polarization	Vertical/Horizontal
Radiation	Omnidirectional
Power	50 W

3. VSWR



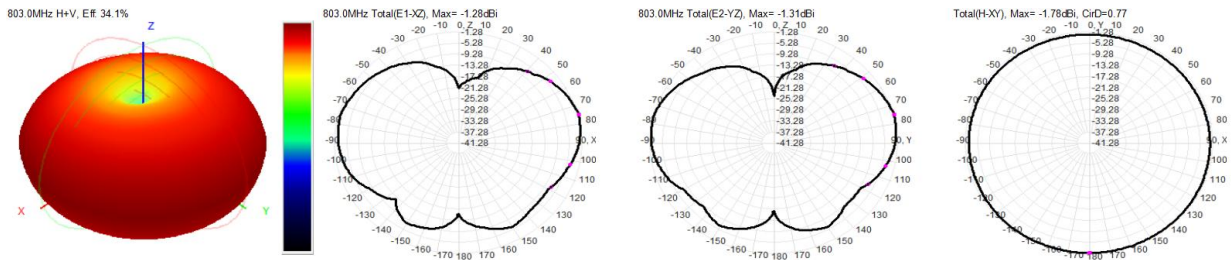
Freq/MHz	803MHz	866MHz	930MHz
VSWR	3.35	1.13	2.95

4. Passive test data:

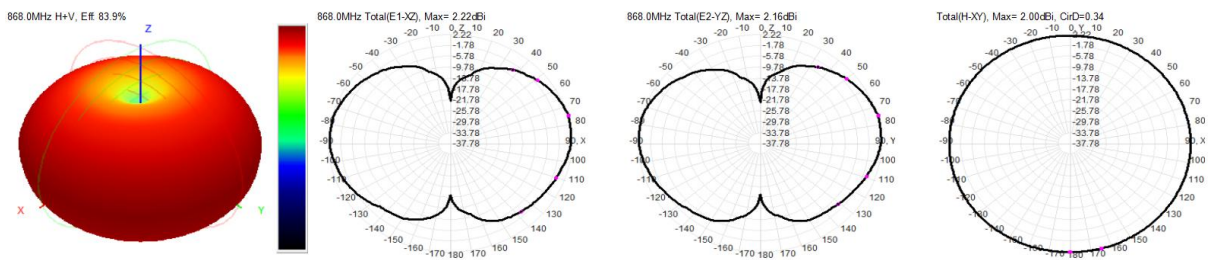
Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
803.0	-4.67	-1.20	34.09
808.0	-4.34	-0.93	36.77
813.0	-3.90	-0.57	40.78
818.0	-3.55	-0.31	44.14
823.0	-3.30	-0.09	46.76
828.0	-2.83	0.32	52.13
833.0	-2.44	0.71	57.08
838.0	-2.06	1.03	62.21
843.0	-1.68	1.39	67.98
848.0	-1.33	1.72	73.65
853.0	-1.03	1.99	78.96
858.0	-0.79	2.22	83.39
863.0	-0.70	2.33	85.14
868.0	-0.76	2.27	83.91
873.0	-0.87	2.14	81.90
878.0	-1.03	1.94	78.86
883.0	-1.22	1.70	75.44
888.0	-1.39	1.45	72.61
893.0	-1.58	1.19	69.48
898.0	-1.72	1.02	67.23
903.0	-1.76	0.93	66.67
908.0	-1.76	0.90	66.74
913.0	-1.70	0.94	67.67
918.0	-1.71	0.87	67.38
923.0	-1.89	0.67	64.65
928.0	-1.96	0.60	63.72
933.0	-2.19	0.41	60.45

5. Radiation pattern

(1) 803MHz



(2) 868MHz



(3) 930MHz

