



915MHz Antenna Proposal Report

Manufacturer : Kairos Water, Inc.

Address : 1700 Northside Drive, Suite A7, Unit #5543, Atlanta, Georgia, United States

PCB Antenna

✚ Project:915MHz Antenna

✚ Proposal Report

● 915MHz

✚ Report Date: 2026.05.12

✚ Report Version: 1.0

✚ Prepared by: KEN

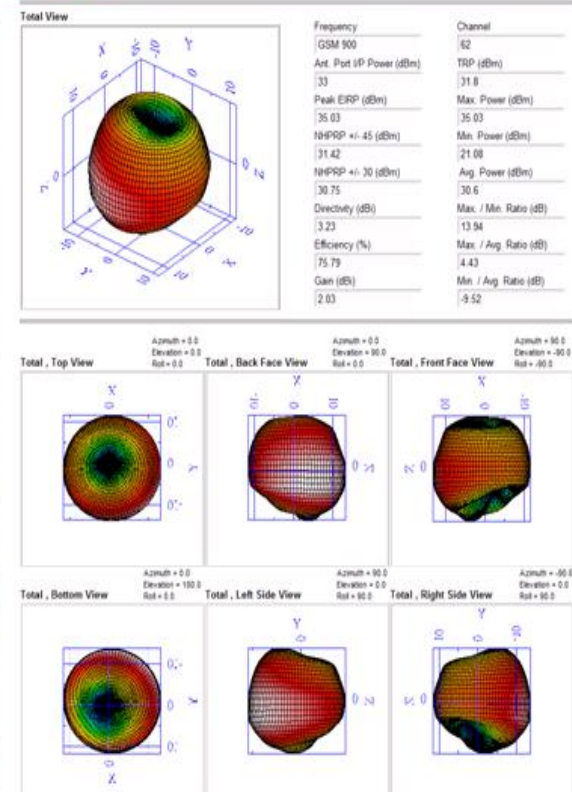
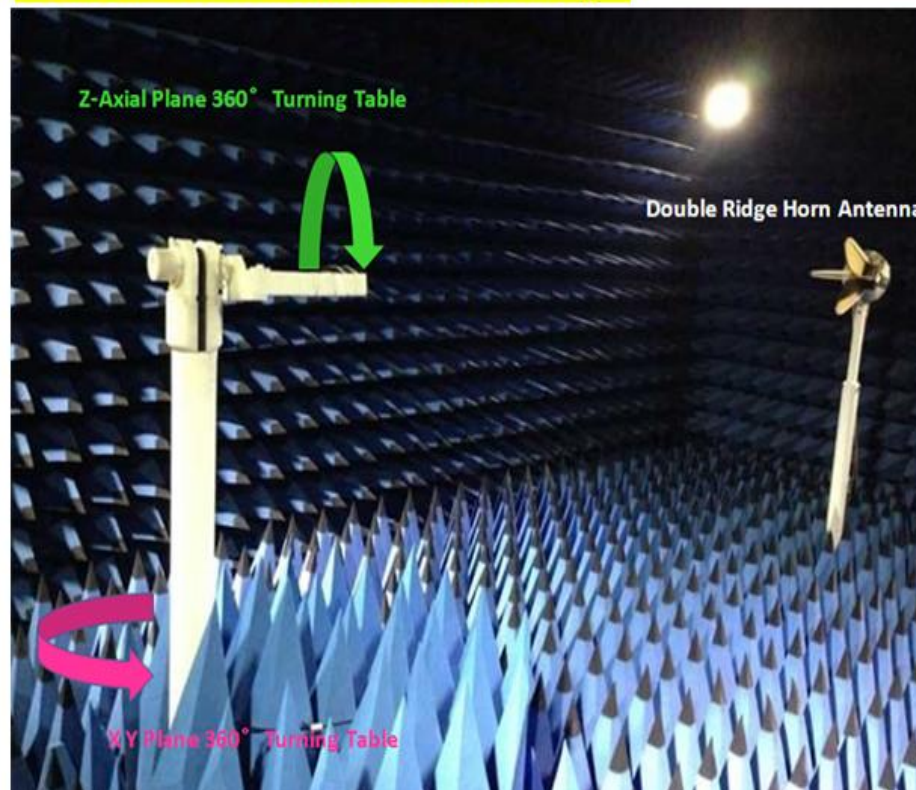
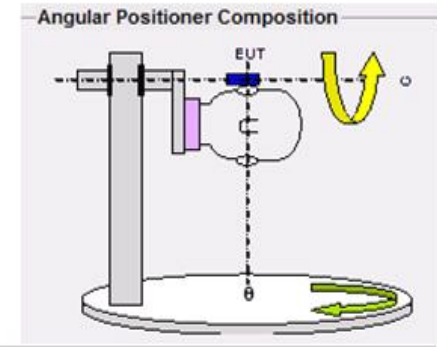
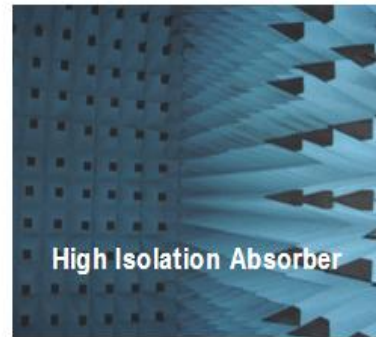
✚ Approved by: IAN

◆ Contents:

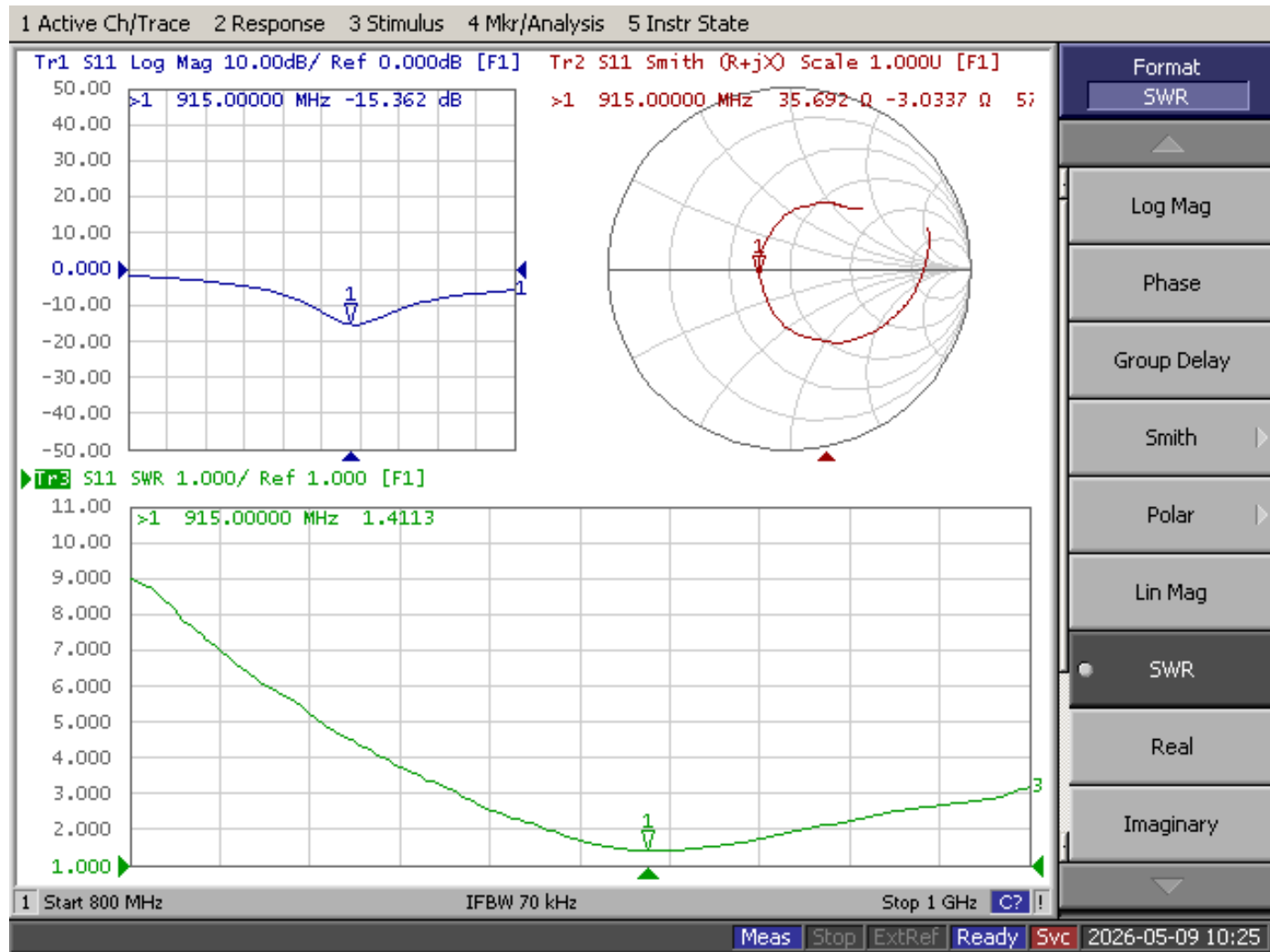
- ◆ 1. Testing Item & Equipment
- ◆ 2. Test Results
 - 3.1 S-Parameters
 - 3.2 Efficiency and Peak Gain

1. Testing Item & Equipment

.Chamber Size: 8 x 4 x 4 m³
 .Freq. Range: 0.7 ~ 6.0 GHz
 .Double Ridge Horn Antenna x 2
 .VNA: Agilent 5071B
 .LTE Tester: R&S CMW 500
 .3D Turning Table and Positioner
 .ADT Solution 3D Testing Software
 .CTIA 3D EIRP / 3D TRP / 3D TIS Testing

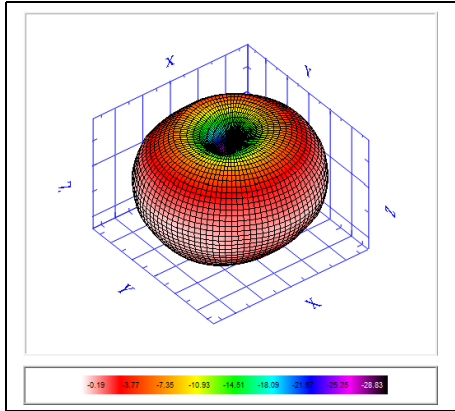


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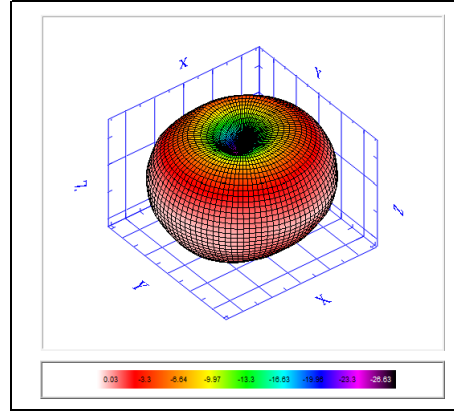


3.2 Efficiency and Peak Gain

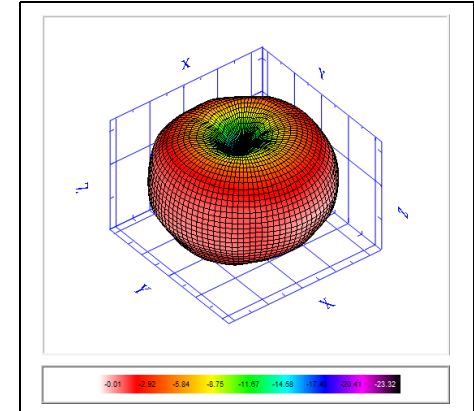
910MHz



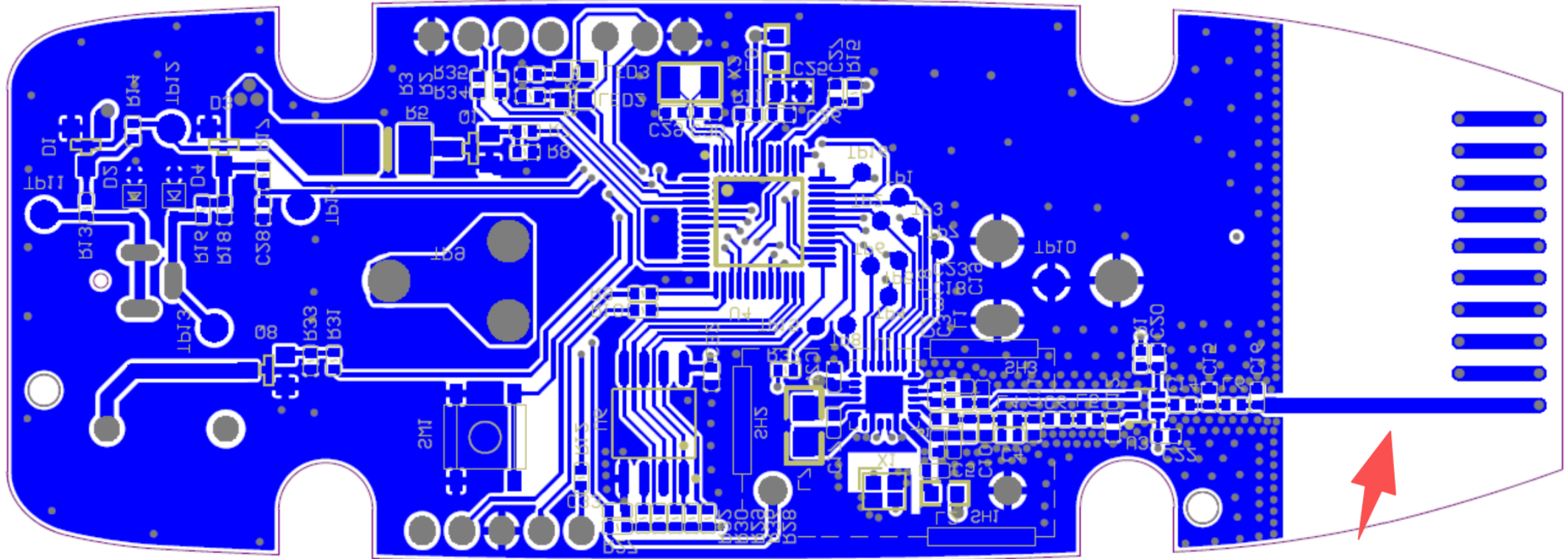
915MHz



919MHz



Frequency	910	911	912	913	914	915	916	917	918	919
Directivity (dBi)	-0.19	-0.34	-0.37	-0.19	-0.32	0.03	-0.42	-0.44	-0.44	-0.01
Peak Gain (dBi)	2.32	2.32	2.32	2.39	2.38	2.33	2.47	2.42	2.38	2.87
Efficiency (%)	55.99	54.26	53.81	55.18	53.7	58.88	51.45	51.77	52.25	51.53



Antenna

