

Antenna Specification

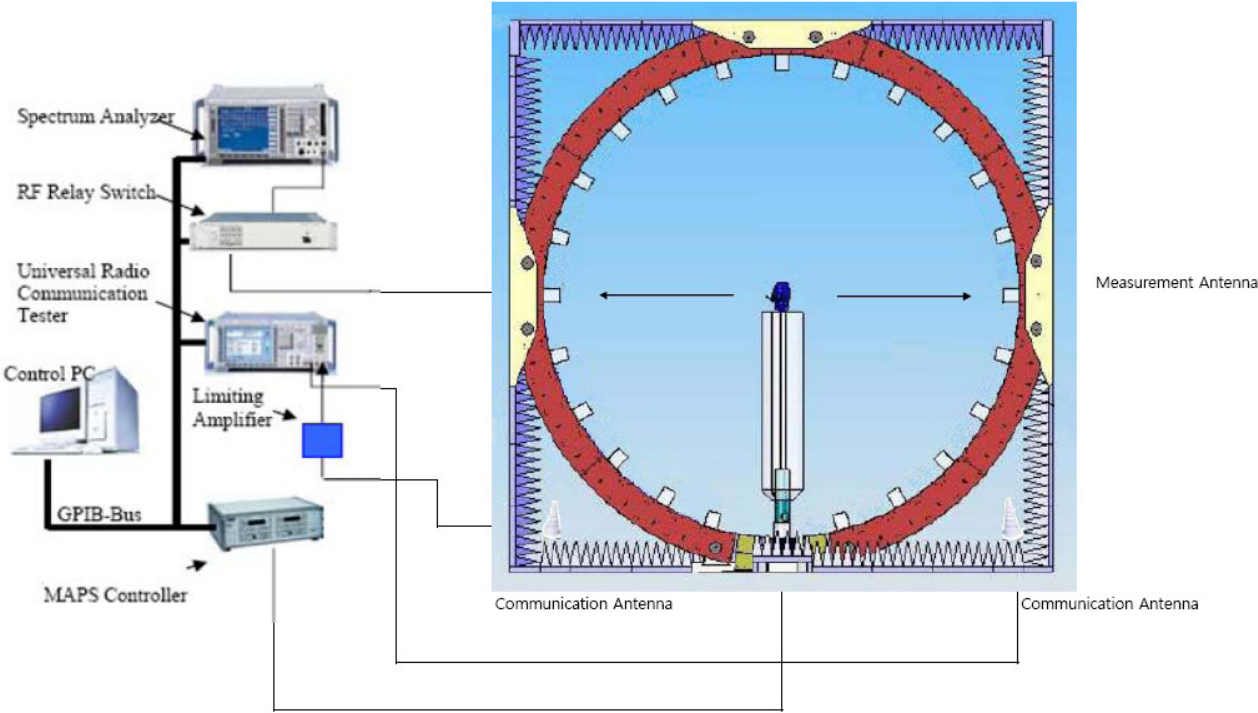
1 Basic Specifications

No.	Specification	Descriptions	Notes
1	Antenna Name/ EUT Name	KITCOM Easybreath	
2	Model No.	8491270	
3	Operation Frequency	2.4~2.483GHz	
4	Antenna Efficiency (%)	56.10%	
5	Gain (dBi)	3.90 dBi	

2 OTA Measurements System Configuration

2.1 Test Configuration

Great-Circle-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 5m



F-1. OTA Measurement System Configuration

3 Equipment List

Type of Equipment	Model Number	Manufacture
Network Analyzer	E5071C S/N MY46523591	Keysight
Quad-Ridge Horn Antenna 700 MHz-10 GHz	EMCO 3164-08 S/N 161915	ETS-Lindgren L.P.
MAPS Controller	EMCENTER S/N 160485	ETS-Lindgren L.P.

4 Test Result

4.1 Test summary

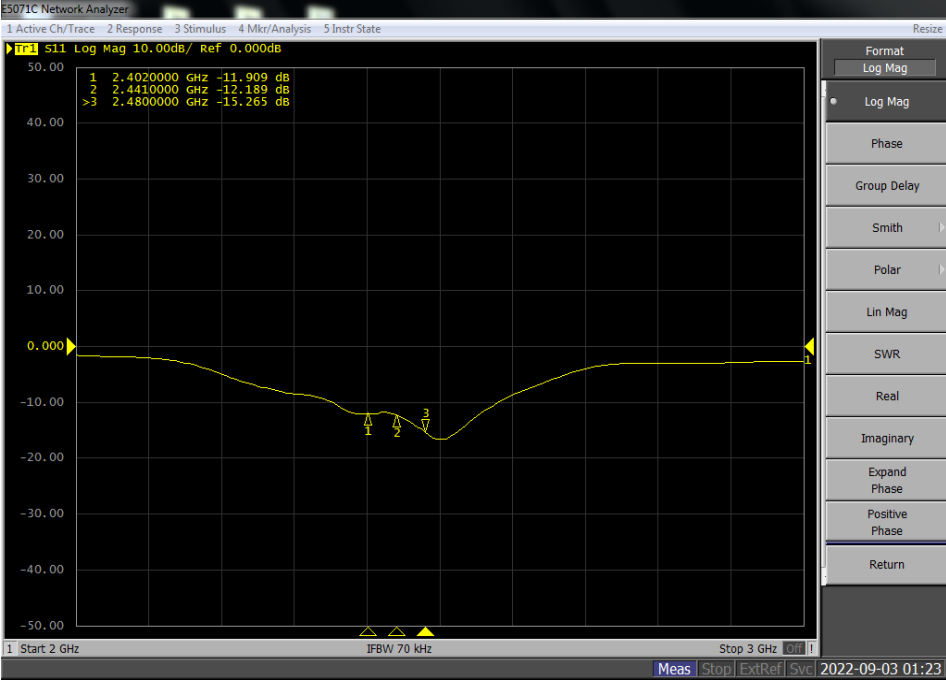
Maximum Gain			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2415	-2.51	56.10	3.90

4.2 Test Results

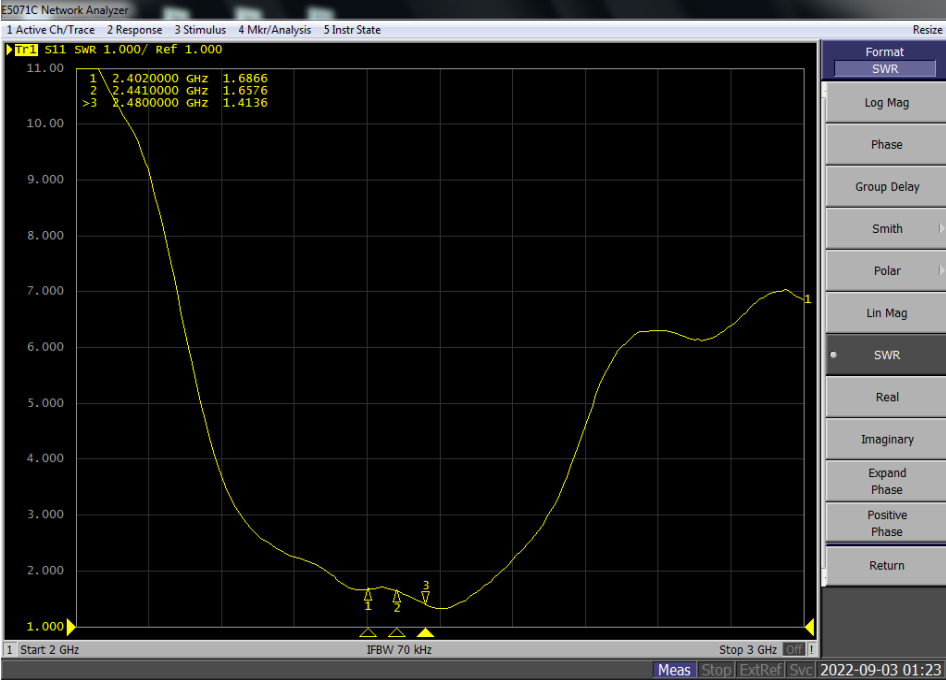
Free Space			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-2.58	55.18	3.63
2402	-2.56	55.44	3.60
2405	-2.52	56.01	3.77
2410	-2.53	55.79	3.87
2415	-2.51	56.10	3.90
2420	-2.58	55.20	3.80
2425	-2.56	55.49	3.77
2430	-2.62	54.72	3.56
2435	-2.58	55.18	3.58
2440	-2.52	56.00	3.54
2441	-2.52	55.96	3.56
2445	-2.49	56.41	3.67
2450	-2.47	56.63	3.67
2455	-2.47	56.56	3.85
2460	-2.51	56.13	3.79
2465	-2.50	56.22	3.85
2470	-2.63	54.63	3.70
2475	-2.63	54.63	3.64
2480	-2.72	53.42	3.46
2482	-2.70	53.67	3.47
2485	-2.66	54.24	3.36

5 Pattern Plots

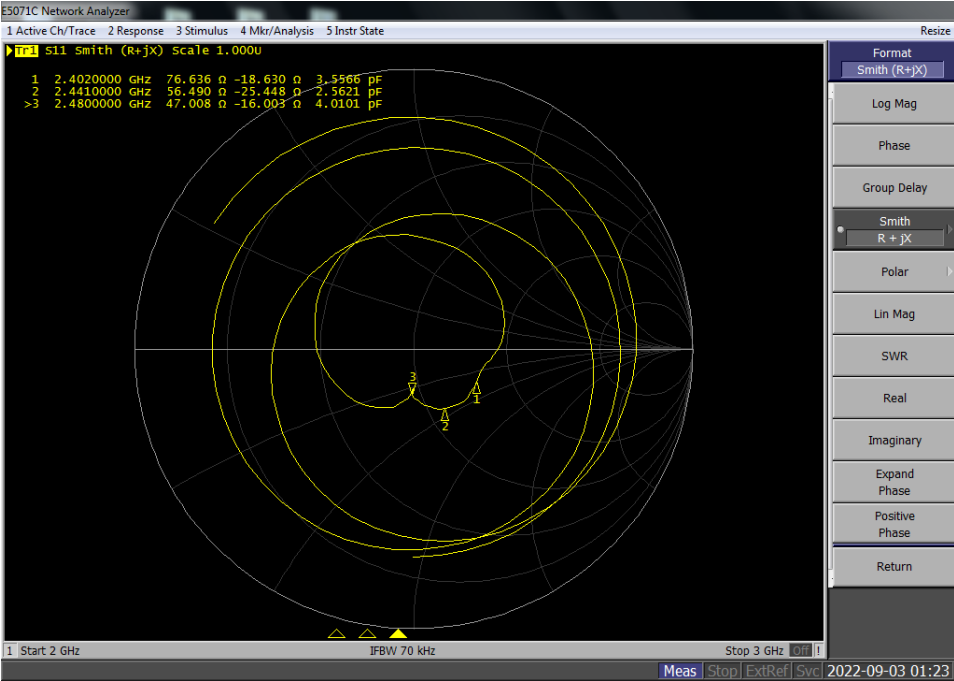
Return Los



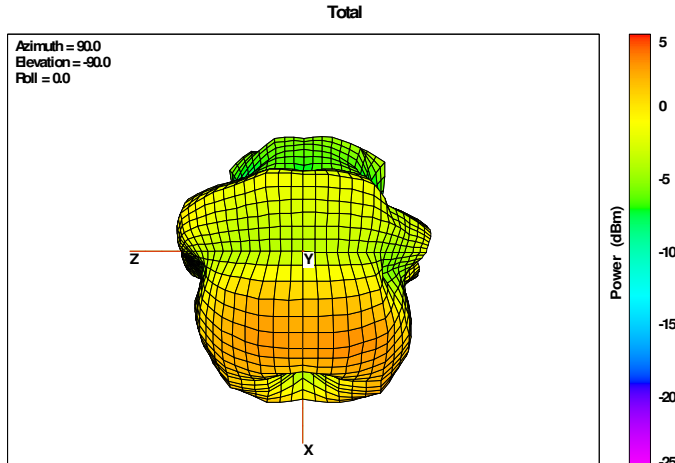
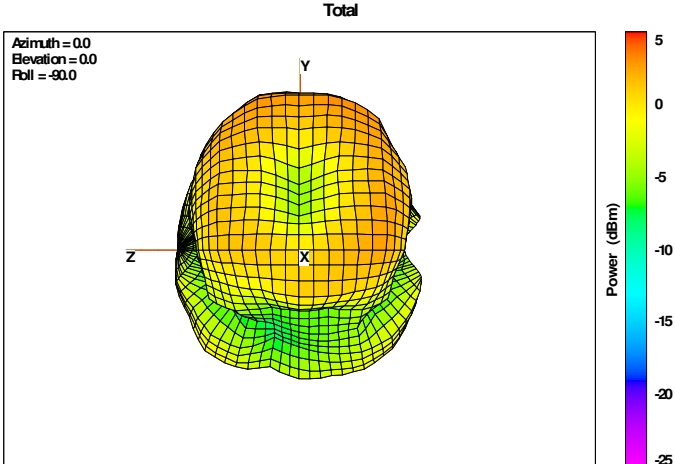
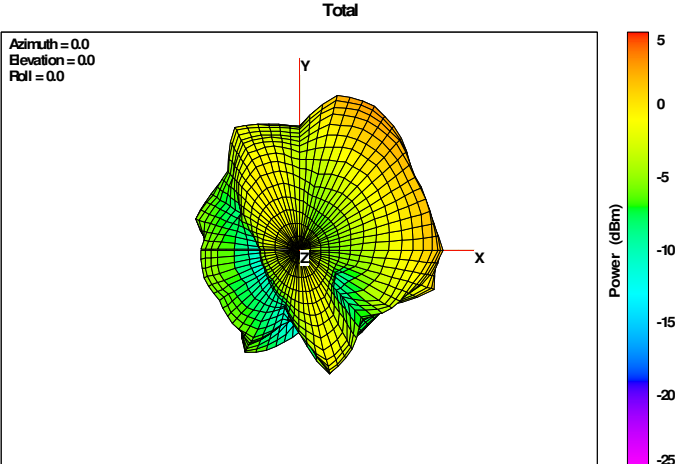
VSWR



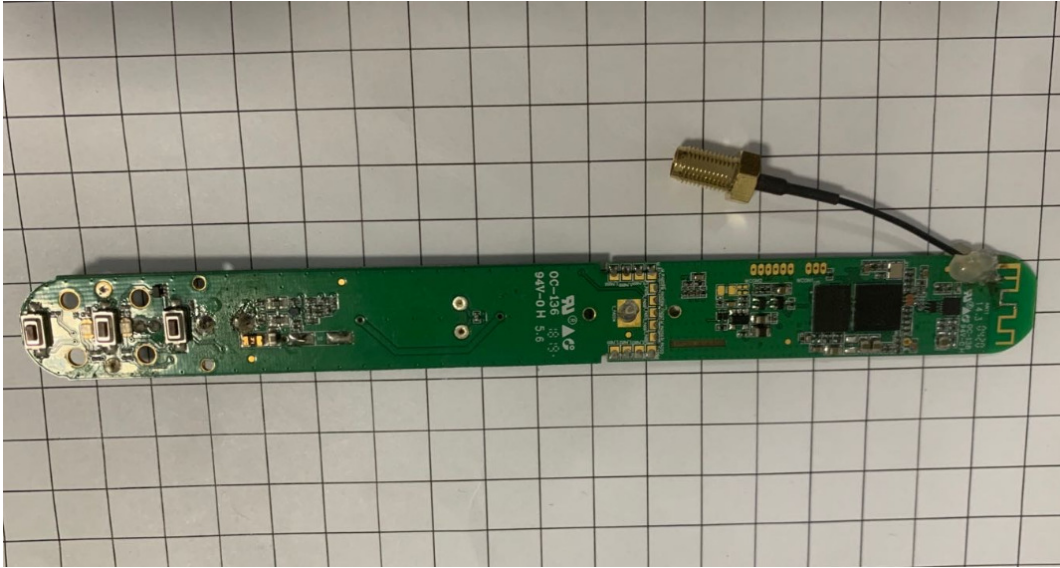
Stimulus



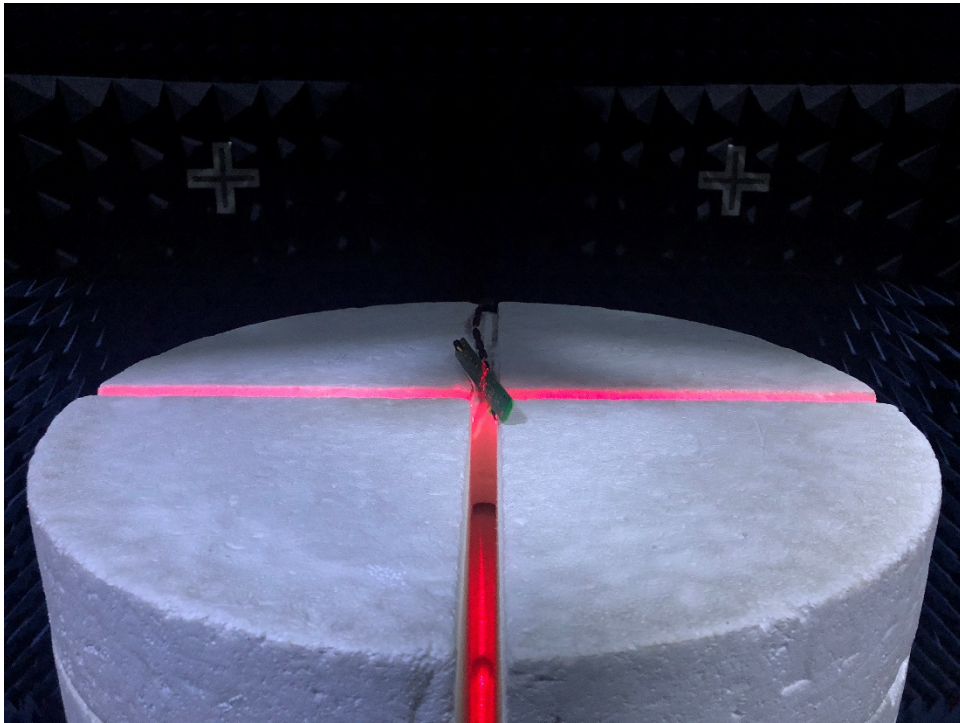
6 3-D Antenna Pattern



7 Antenna Dimension



8 Setup photo



- End of the Report -