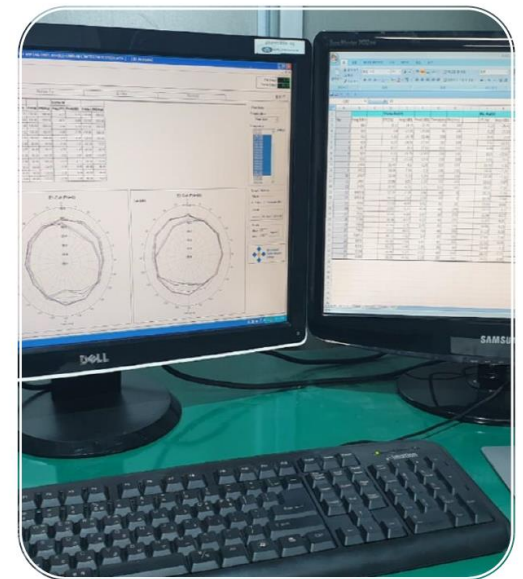
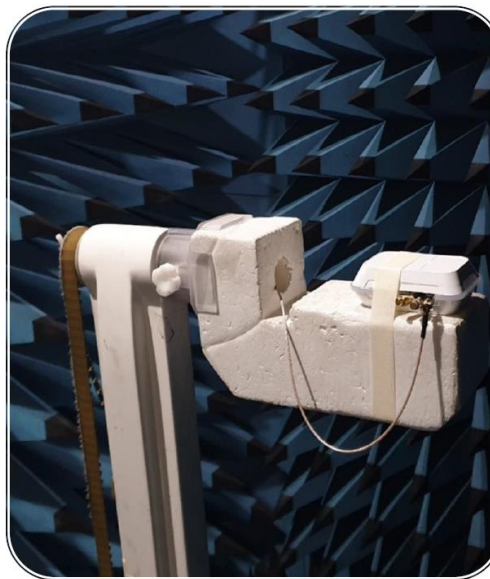


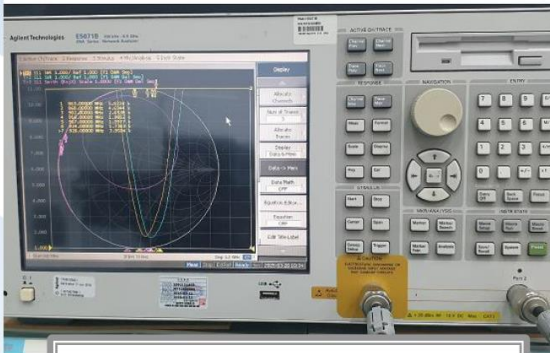
SoluM “CD01HFS01X”

- Antenna Manufacturer: Galtronics Korea
- Measuring Company: Galtronics Korea
- Antenna Model Name: Vehicle tag LDS
- Measurement Procedure



SoluM “CD01HFS01X”

-. Measurement Equipment



E5071B (Agilent)



N5230A (Agilent)

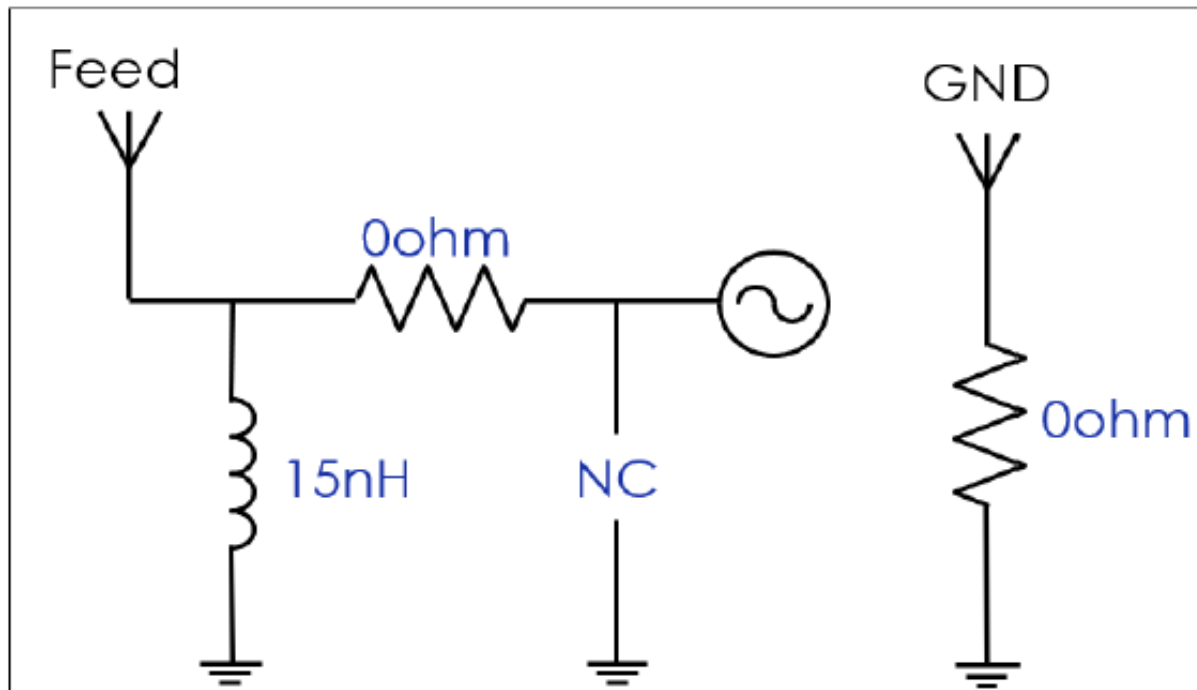


**CTIA 3D OTA Chamber
(MTG)**

SoluM “CD01HFS01X”

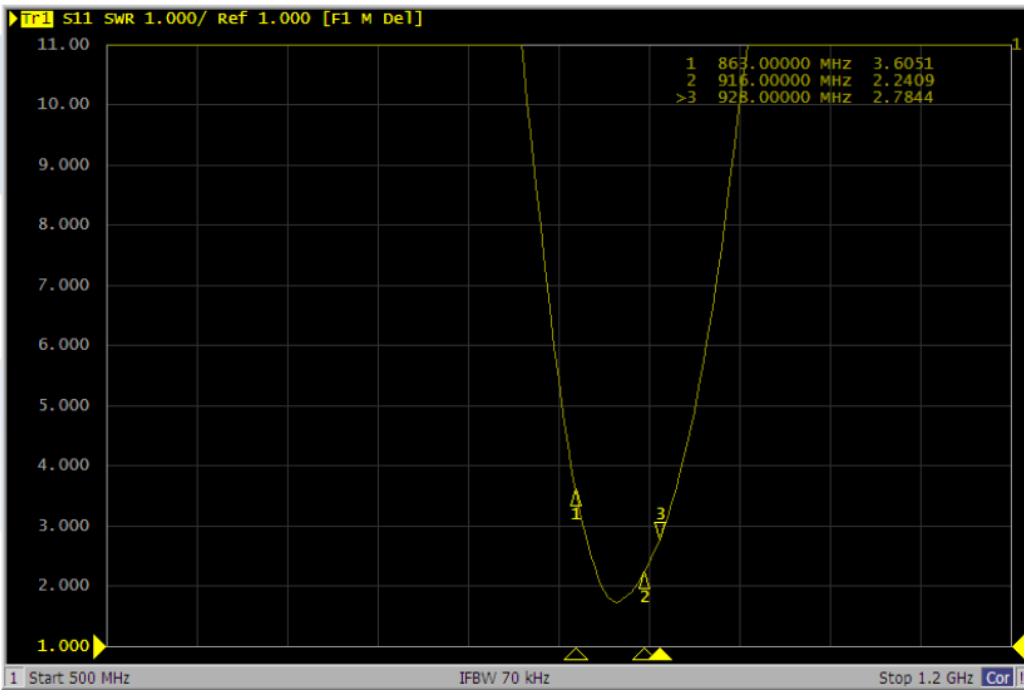
1. TEST condition

WiFi 11ah



SoluM “CD01HFS01X”

2-1. Passive TEST – VSWR & GAIN_WiFi 11ah

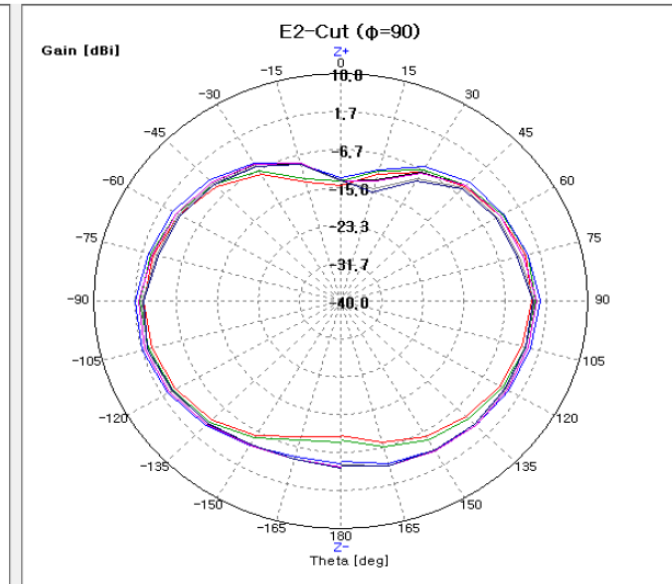
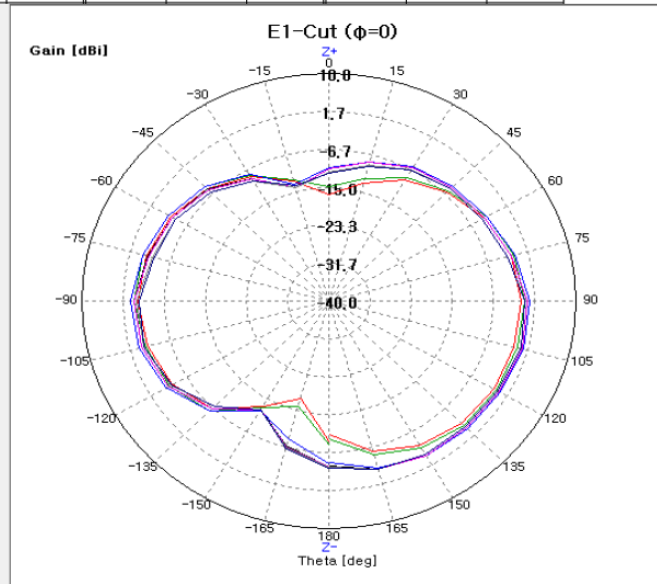
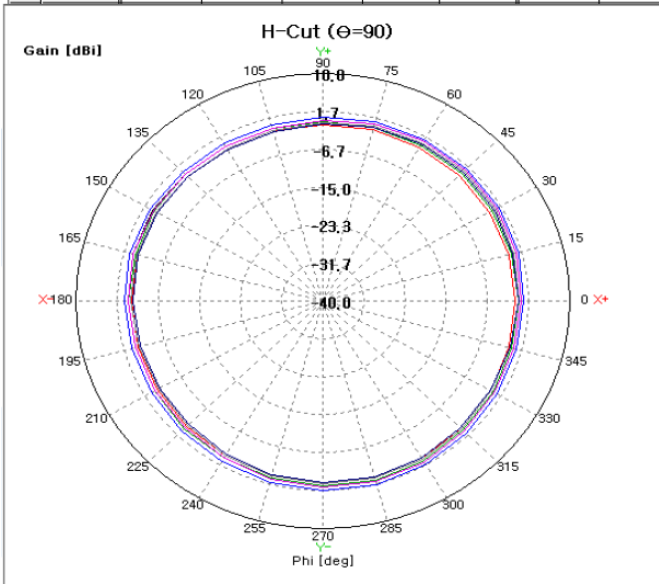


No.	Freq.[GHz]	PwrSum Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]
1	863	52.25	-2.82	0.08	90	285
2	868	59.66	-2.24	0.7	90	285
3	902	74.91	-1.25	1.74	90	285
4	916	66.35	-1.78	1.32	105	285
5	917	66.4	-1.78	1.34	105	285
6	924	58.89	-2.3	0.87	105	285
7	928	57.01	-2.44	0.75	105	285

SoluM “CD01HFS01X”

2-2. Passive TEST – 2D

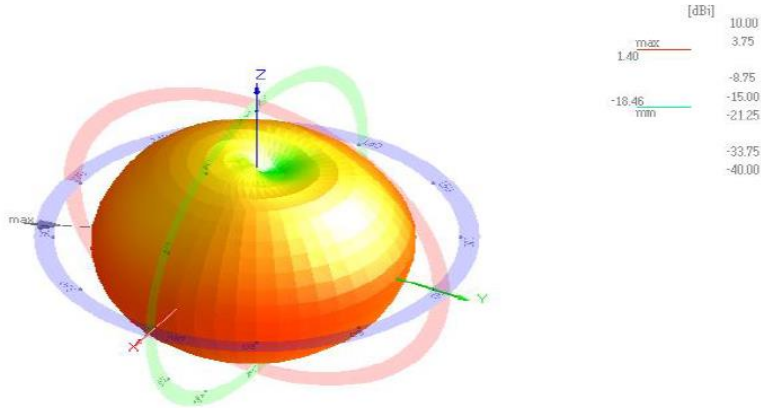
No.	Freq.	PwrSum		Avg.[dBi]	Peak[dBi]	θ [deg]	ϕ [deg]	H($\theta=90$)		ϕ [deg]	E1($\phi=0$)		θ [deg]	E2($\phi=90$)		θ [deg]
		Eff.[%]						Avg.[dBi]	Peak[dBi]		Avg.[dBi]	Peak[dBi]		Avg.[dBi]	Peak[dBi]	
1	0.863	52.25	-2.82	0.08	90.00	285.00		-0.87	0.08	285.00	-4.23	-1.08	90.00	-3.67	-0.02	-90.00
2	0.868	59.66	-2.24	0.70	90.00	285.00		-0.29	0.70	285.00	-3.65	-0.47	90.00	-3.07	0.58	-90.00
3	0.902	74.91	-1.25	1.74	90.00	285.00		0.75	1.74	285.00	-2.55	0.73	90.00	-1.79	1.60	-90.00
4	0.916	66.35	-1.78	1.32	105.00	285.00		0.10	1.06	285.00	-2.96	0.55	105.00	-2.22	1.05	-105.00
5	0.917	66.40	-1.78	1.34	105.00	285.00		0.09	1.05	285.00	-2.95	0.57	105.00	-2.21	1.08	-105.00
6	0.924	58.89	-2.30	0.87	105.00	285.00		-0.55	0.37	285.00	-3.38	0.26	105.00	-2.70	0.62	-105.00
7	0.928	57.01	-2.44	0.75	105.00	285.00		-0.78	0.14	285.00	-3.47	0.25	105.00	-2.83	0.49	-105.00



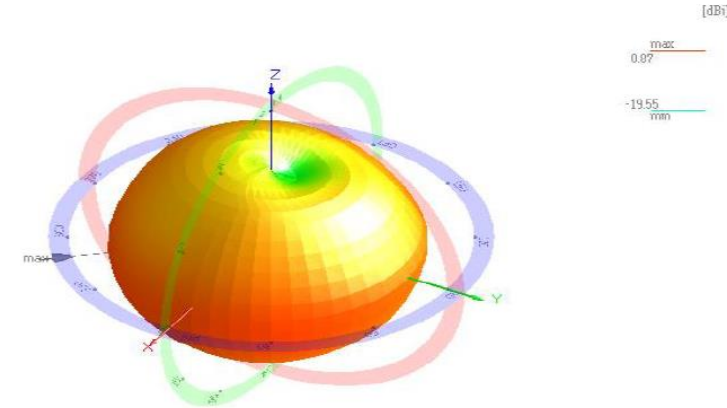
SoluM “CD01HFS01X”

2-3. Passive TEST – 3D

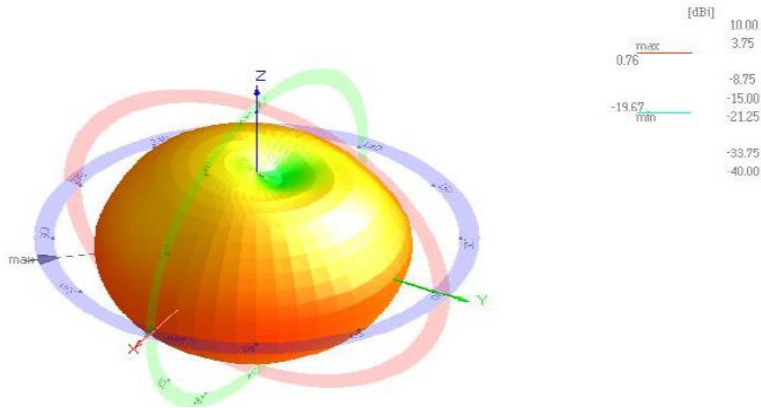
0.917GHz



0.924GHz



0.928GHz



N/A

