

Specifications of Quadrifilar Wideband Ant.

MESSRS. (주)아이디로

ITEM : Quadrifilar Wideband Antenna
PART NAME : MQWA70F55SP962-A
MODEL NAME : IDRO900H-BT
FEATURES : UHF RFID Reader Circular Polarization Antenna
Low Weight, Compact Size
Provide highly stabilized performance
DATE : November 14, 2024
QUANTITY : 54 pcs

SUPPLIER : MAC technologies Inc.		
DRAWN	CHECKED	APPROVED
		

mac technologies

615, 530, Jikji-daero,

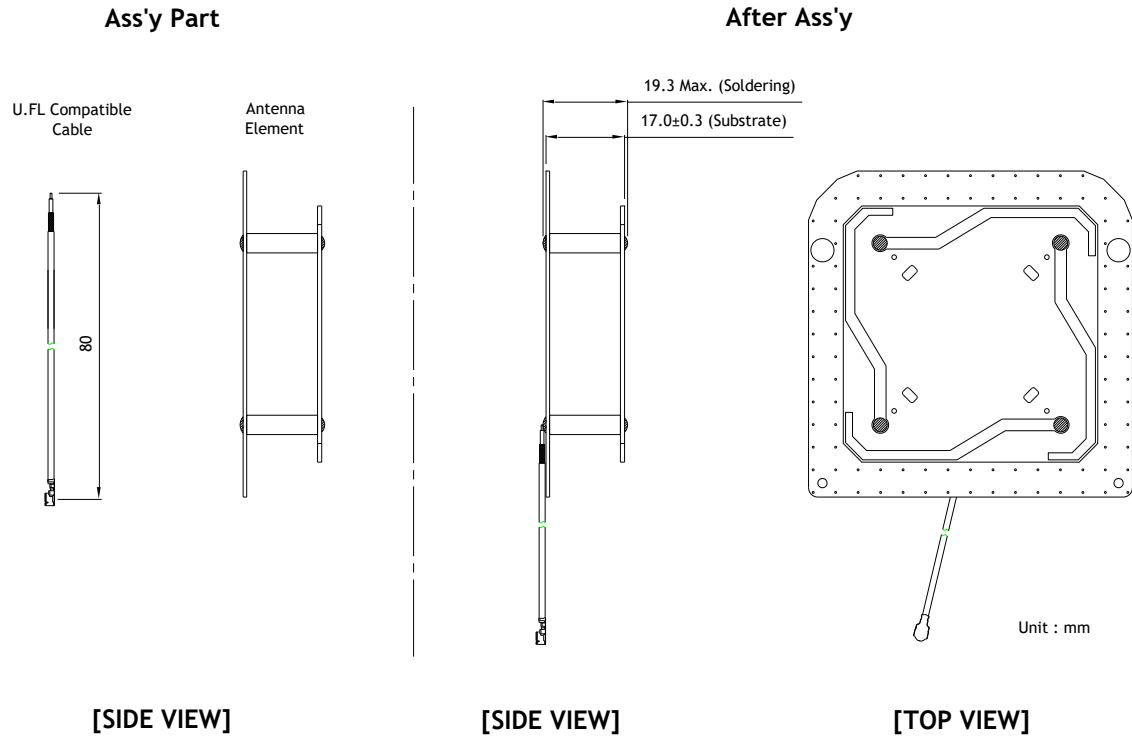
Heungdeok-gu, Cheongju-si, Chungbuk, KOREA, 28578

Tel : +82 43 275 2485 Fax : +82 43 275 2487

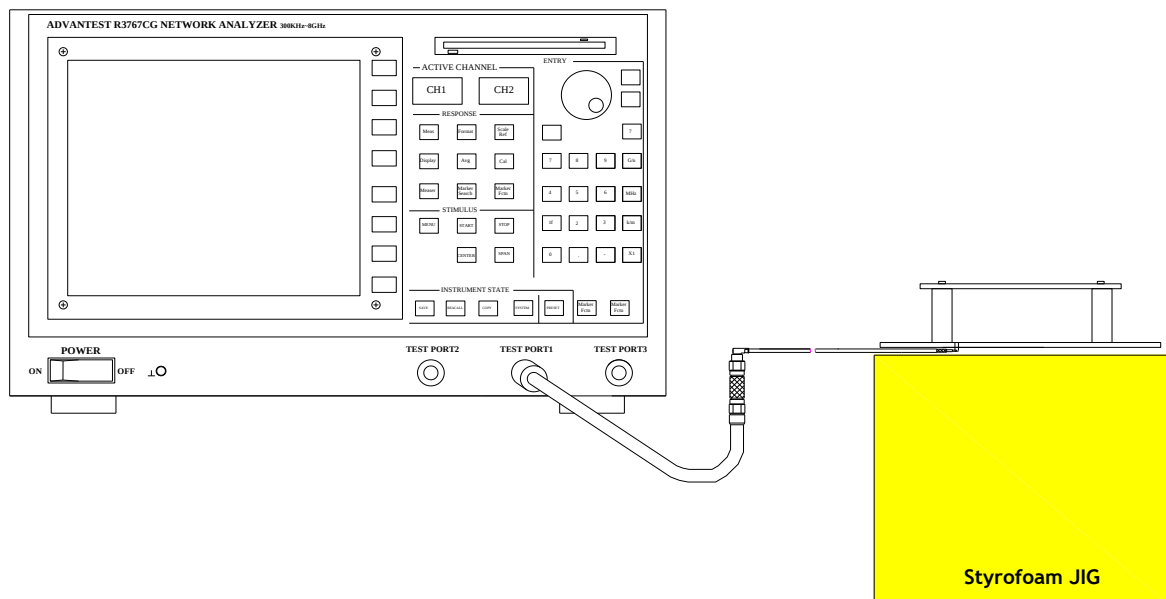
Halogen-Free

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2-2. Cable Ass'y (The color of cable outer sheath can be changed.)



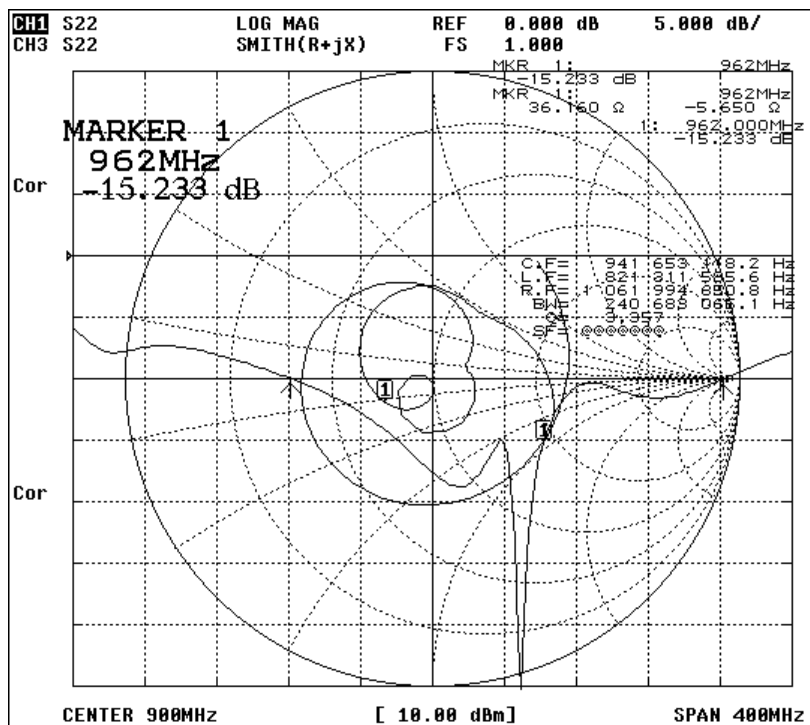
3. Test Fixture.



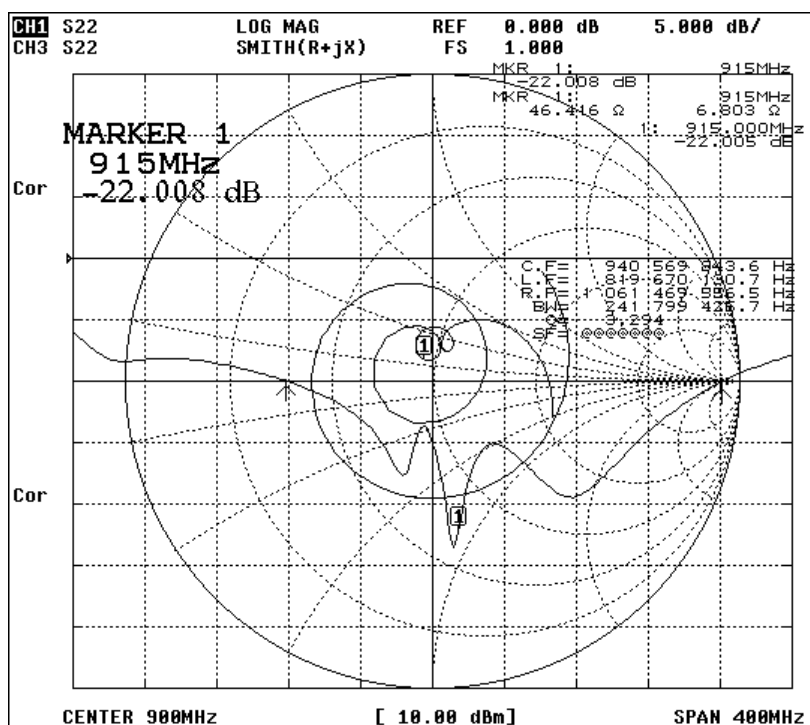
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4. S11 Measurement Data.

4-1. Cable Ass'y



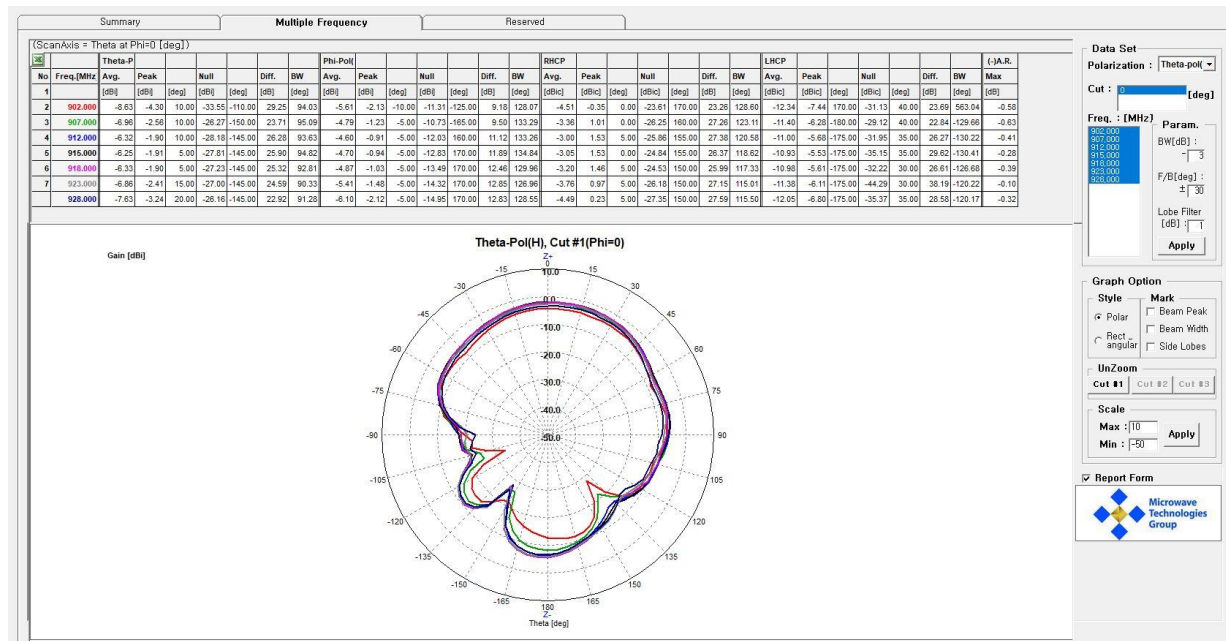
4-2. Set Ass'y



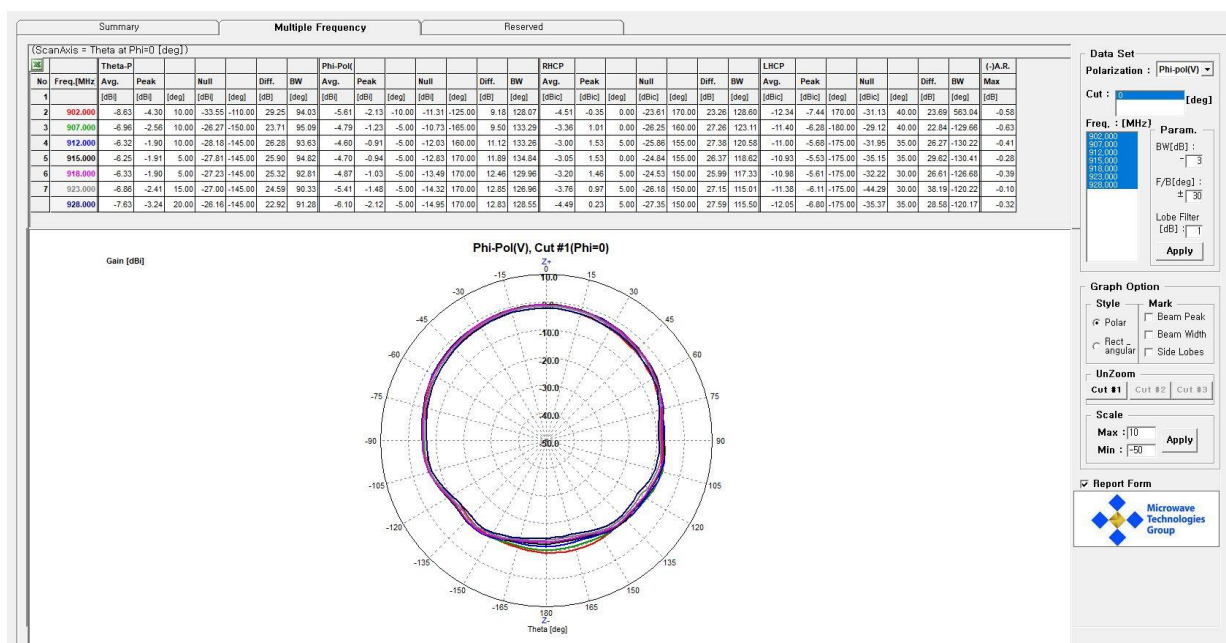
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5. Radiation Patterns.

5-1. H-pol. (Frequency 902.0, 907.0, 912.0, 915.0, 918.0, 923.0, 928.0 MHz)



5-2. V-pol. (Frequency 902.0, 907.0, 912.0, 915.0, 918.0, 923.0, 928.0 MHz)

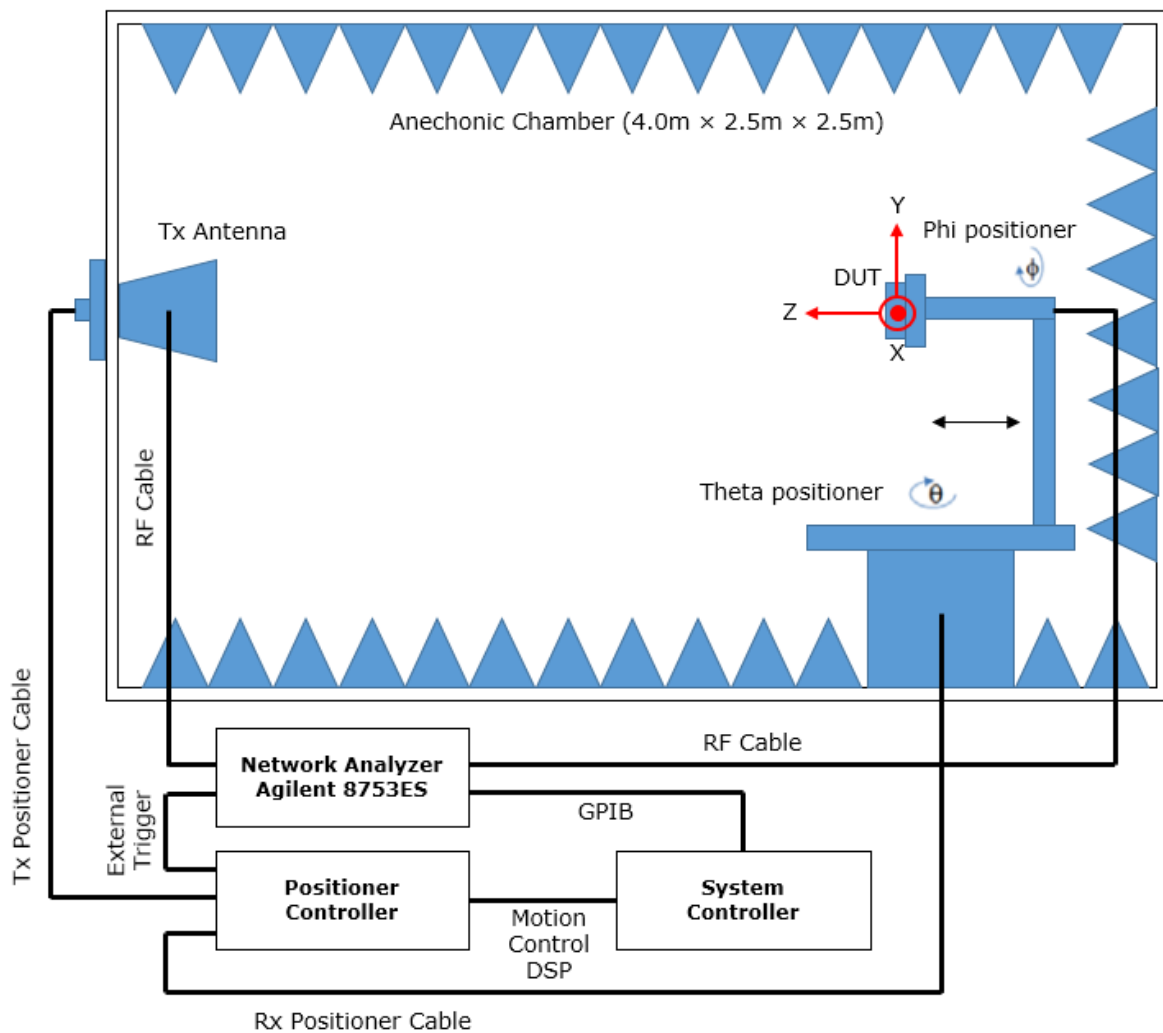


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5-3. Gain Test Data

Source Antenna Polarization	Frequency						
	902.0 MHz	907.0 MHz	912.0 MHz	915.0 MHz	918.0 MHz	923.0 MHz	928.0 MHz
H-pol. (dBiL)	-4.30	-2.56	-1.90	-1.91	-1.90	-2.41	-3.24
V-pol. (dBiL)	-2.13	-1.23	-0.91	-0.94	-1.03	-1.48	-2.12
RHCP (dBiC)	-0.35	1.01	1.53	1.53	1.46	0.97	0.23

5-4. Gain Measurement System



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5-5. List of Equipments (MAC technologies Inc.)

NO	Equipments	Maker	Model No.	S/N	Specification	Note
1	Anechoic Chamber	MTG	Mobile Chamber	-	4.0 m X 2.5 m X 2.5 m (0.4 ~ 3 GHz)	
2	Network Analyzer	Agilent	8753ES	US39173213	30 kHz ~ 6 GHz	
3	Dual-Polarization Horn Antenna with RF Switch	MTG	QRH-004060/ RSW-001060		0.4 GHz ~ 6 GHz	Source
4	Calibration Antenna	Schwarzbeck Mess - Elektronik	BBHA 9120 A	1201	0.8 GHz ~ 5 GHz	Reference
5	Absorber Installation	EMERSON & CUMING	SABS-003 18"		Reflectivity : -25 dB @ 0.8 GHz -30 dB @ 1.0 GHz	