



**EU-SK109&US-SK109&EU-OSK109&US-
OSK109&EU-SK110&US-SK110
Antenna test report
Antenna model: 8720CMF PCB antenna**

GD Midea Air-Conditioning Equipment Co., Ltd.& Realtek Semiconductor Corp.
2022.12

antenna test report



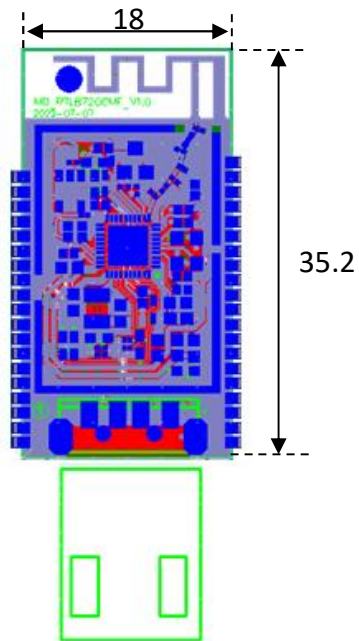
- **Antenna manufacturer**

Name: GD Midea Air-Conditioning Equipment Co., Ltd.

Address : Lingang Road, Beijiao, 528311 Shunde, Foshan, Guangdong,
PEOPLE'S REPUBLIC OF CHINA

- **Antenna structure**

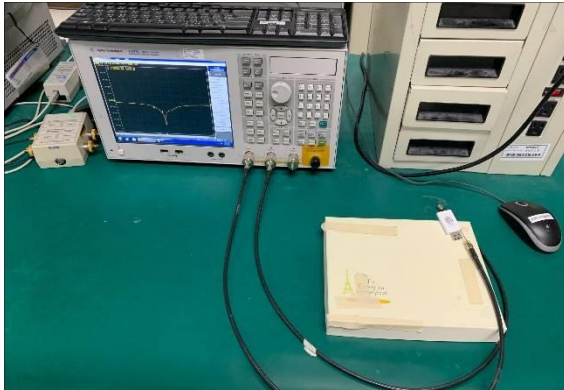
PCB onboard antenna:17.5mm*3.8mm



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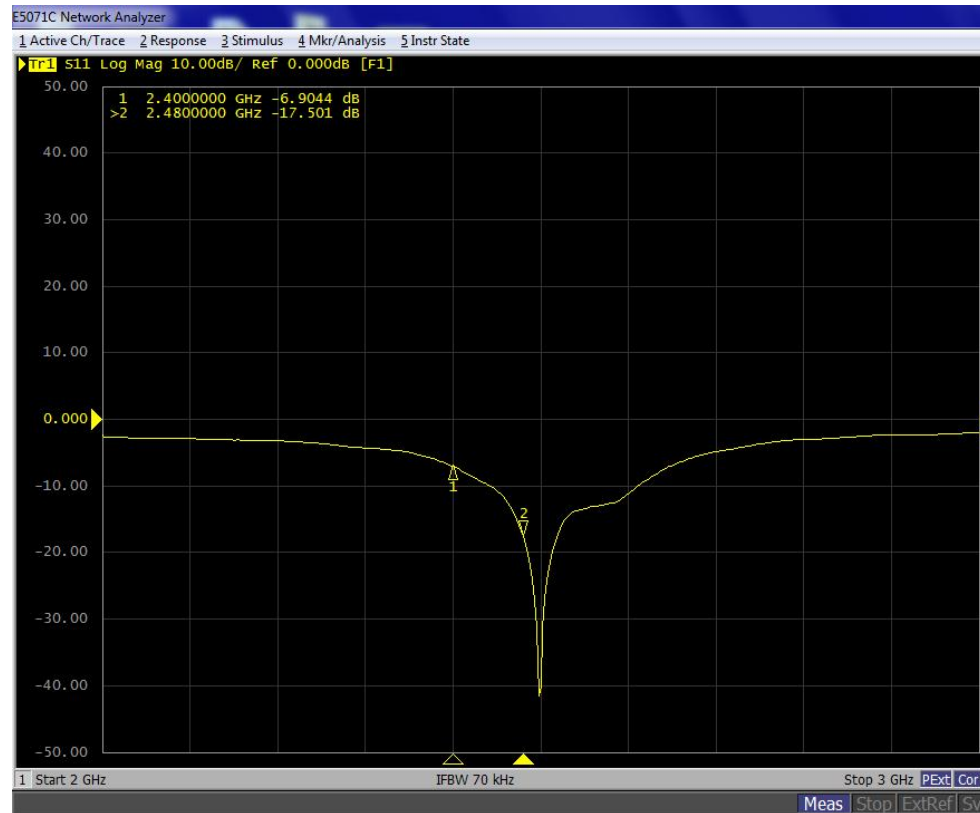
- Measurement Setup



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- Return loss

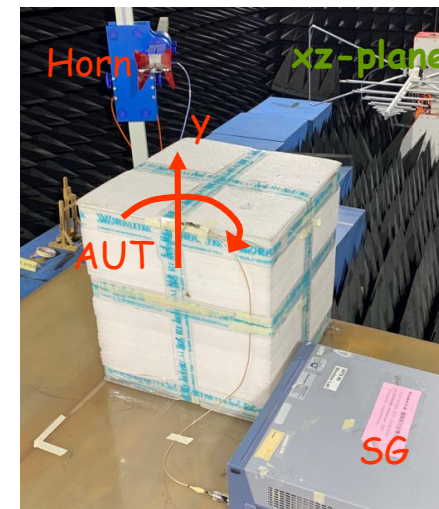
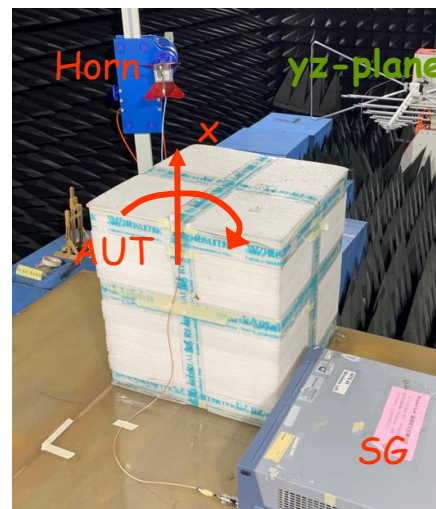
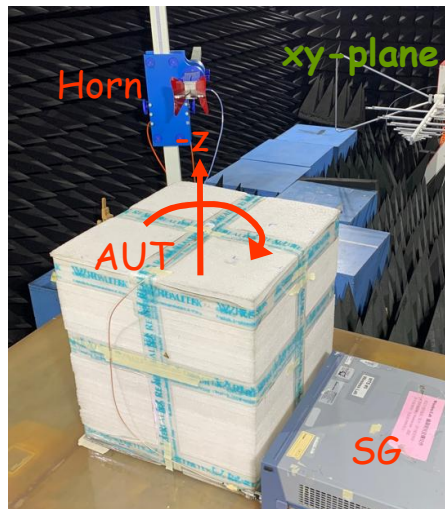
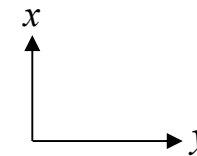


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- **Radiation Patterns**

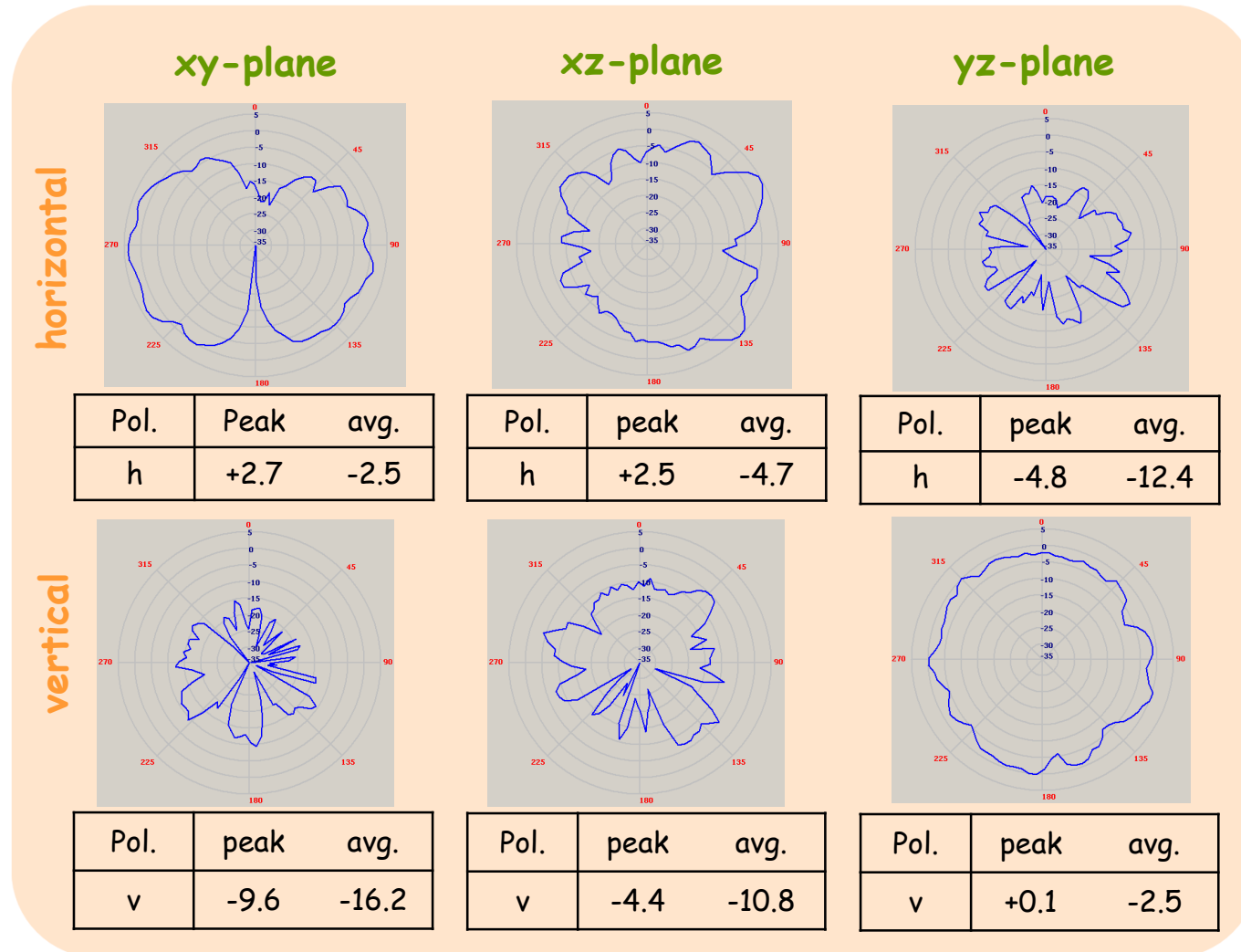
- Frequency : 2400MHz, 2450MHz and 2480MHz
- Test plane : xy-plane, xz-plane and yz-plane
- Input power : SG 0dBm
- Place: RTK 4F chamber
- Horn h: horizontal polarization
- Horn v: vertical polarization



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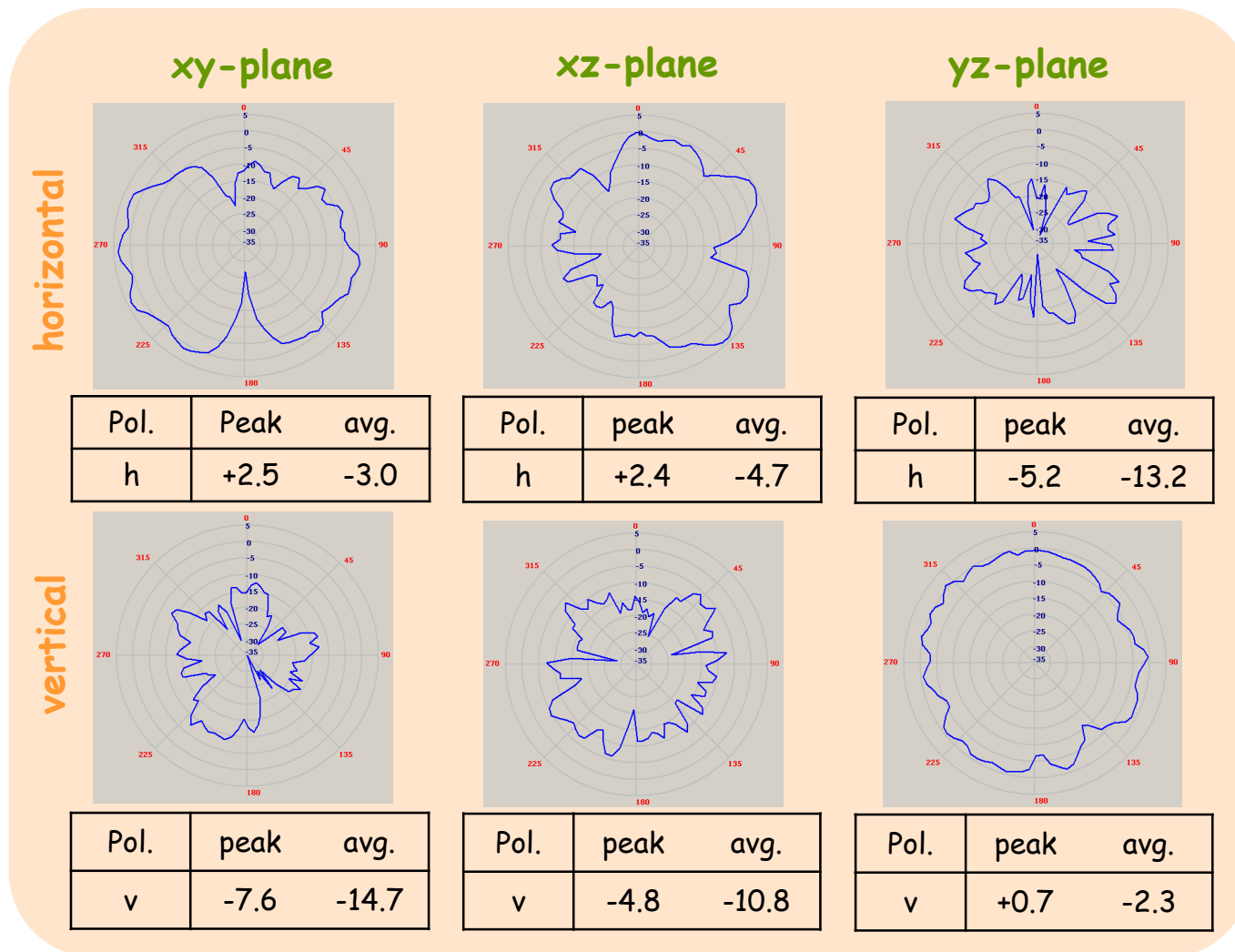
- Radiation Patterns — 2400MHz



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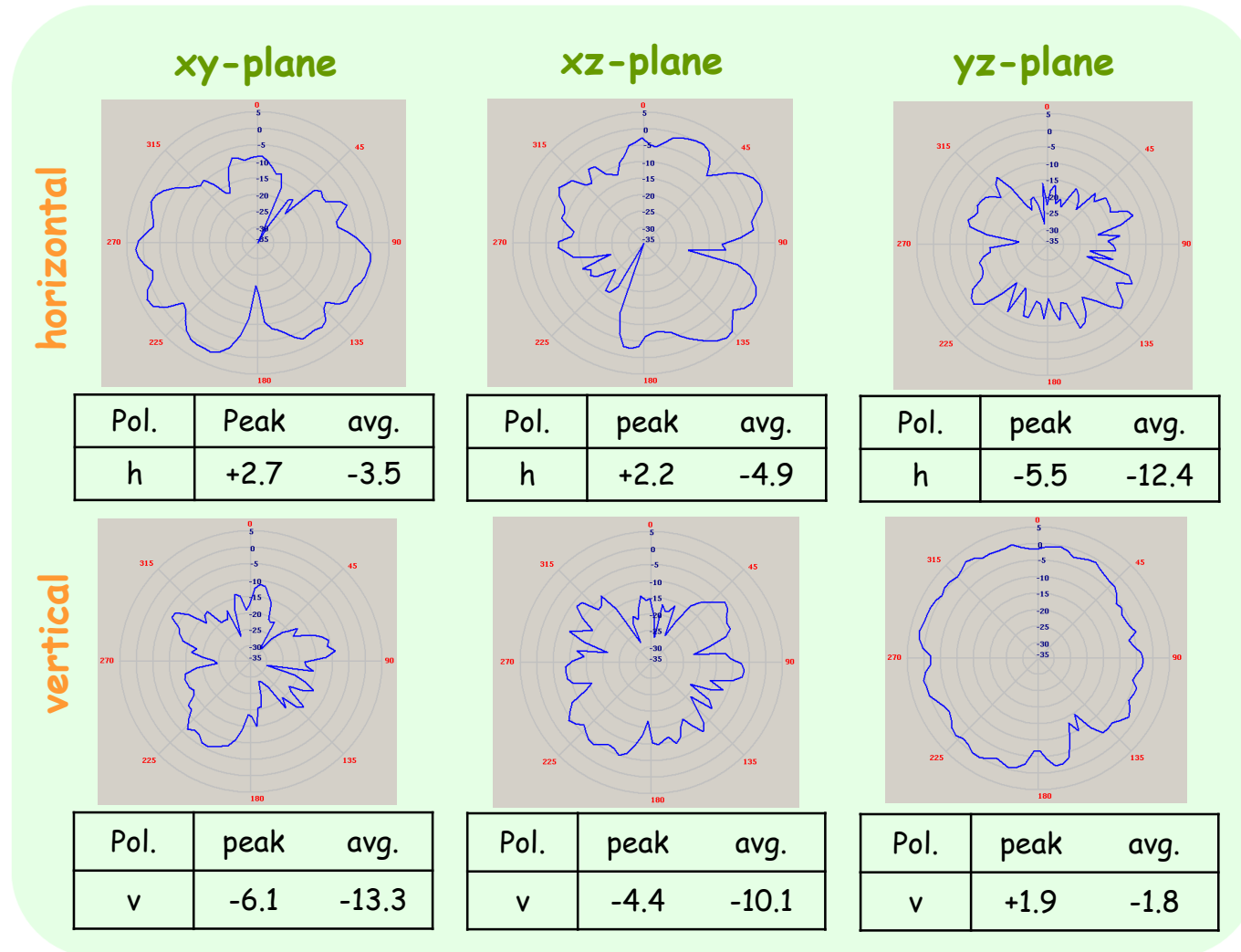
- Radiation Patterns — 2450MHz



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- Radiation Patterns — 2480MHz



antenna test report



- Antenna gain and efficiency

2400MHz													
Plane	xy-plane				xz-plane				yz-plane				Eff.
Pol.	h		v		h		v		h		v		
Gain	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	
	+2.7	-2.5	-9.6	-16.2	+2.5	-4.7	-4.4	-10.8	-4.8	-12.4	+0.1	-2.5	54

2450MHz													
Plane	xy-plane				xz-plane				yz-plane				Eff.
Pol.	h		v		h		v		h		v		
Gain	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	
	+2.5	-3.0	-7.6	-14.7	+2.4	-4.7	-4.8	-10.8	-5.2	-13.2	+0.7	-2.3	53

2480MHz													
Plane	xy-plane				xz-plane				yz-plane				Eff.
Pol.	h		v		h		v		h		v		
Gain	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	peak	avg.	
	+2.7	-3.5	-6.1	-13.3	+2.2	-4.9	-4.4	-10.1	-5.5	-12.4	+1.9	-1.8	55



谢谢