POSSUMIC
正和微芯

RS6130 AIP ANTENNA TEST REPORT

2025/02/25

V1.3

PRODUCTION SPECIFICATION

Company: Possumic Technology Co.,Ltd

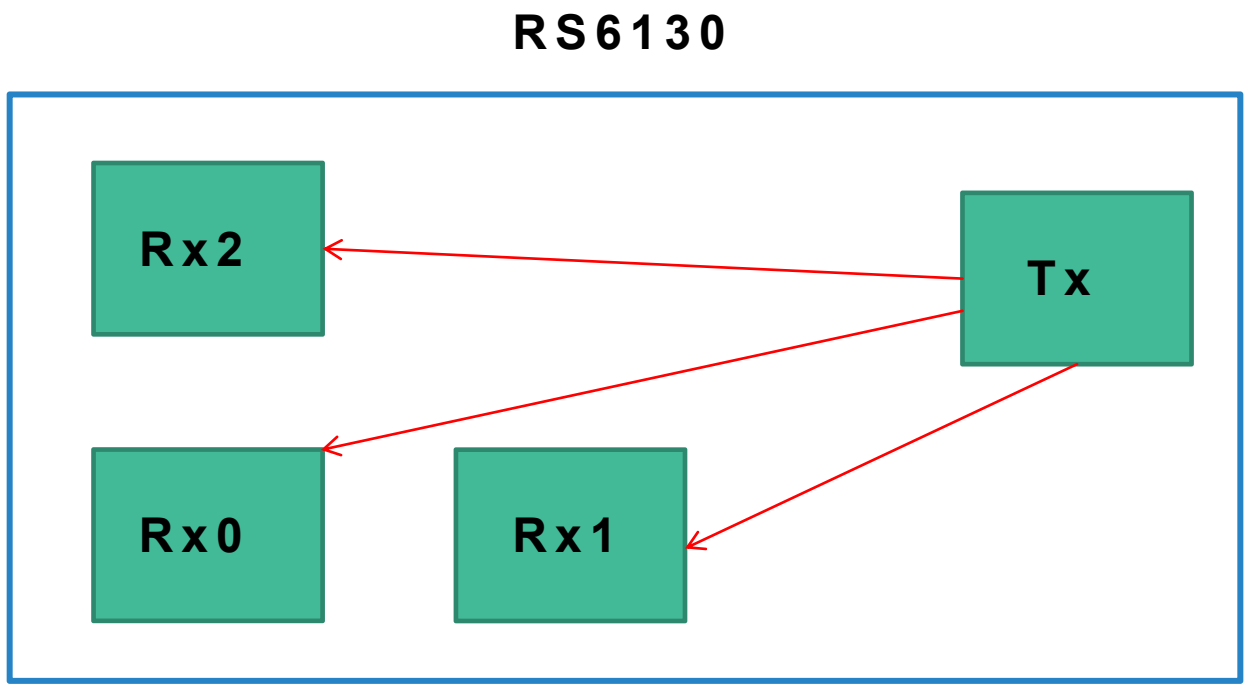
Addr: Room 603, Building B, Creative Cloud, No. 1 Gangwan, Tangjiawan

Model Name: RS6130

Model Size: 8.8mm(Length)X5.8mm(Width)X0.68mm(Thickness)

AIP ANTENNA TEST DESCRIPTION

RS6130 1T3R(Tx→Rx0，Tx→Rx1，Tx→Rx2) Gain and Radiation Pattern of three channels

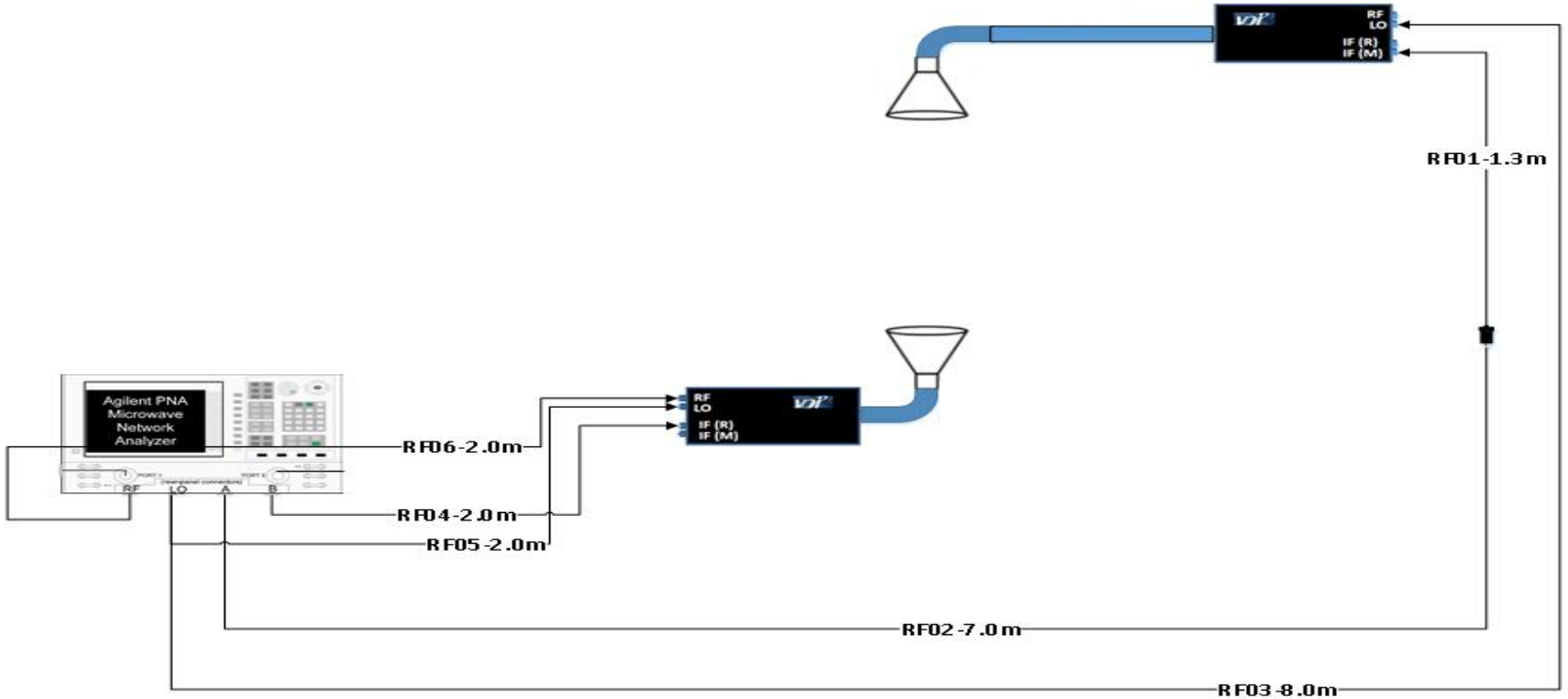


AIP ANTENNA TEST PRINCIPLE AND METHOD

Principle: Conservation, that is, the signal power received by Rx is equal to the power lost in the energy space when the Tx transmit power is lost.

Gain test method: Comparison method, using the equal power loss in space, replacing the Rx antenna with a horn antenna for reception to obtain the Rx antenna gain.

Directional pattern test method: Use angular reflection to collect level values in different directions, and then obtain a normalized pattern.



ANTENNA GAIN RESULTS

ANT Gain=EIRP-Tx Output Power
Average Gain of AiP antenna about **7dBi**

Frequency (GHz)	EIRP (dBm)	Chip Tx Output Power (dBm)	ANT Gain (dBi)
58	17.67	10.5	**7.17**
59	17.62	10.7	**6.92**
60	17.39	10.5	**6.89**
61	17.93	10.5	**7.43**
62	16.81	9.7	**7.11**
63	15.65	9.0	**6.65**
64	15.00	8.2	**6.80**

60GHZ RADIATION PATTERN

TX-RX loop gain

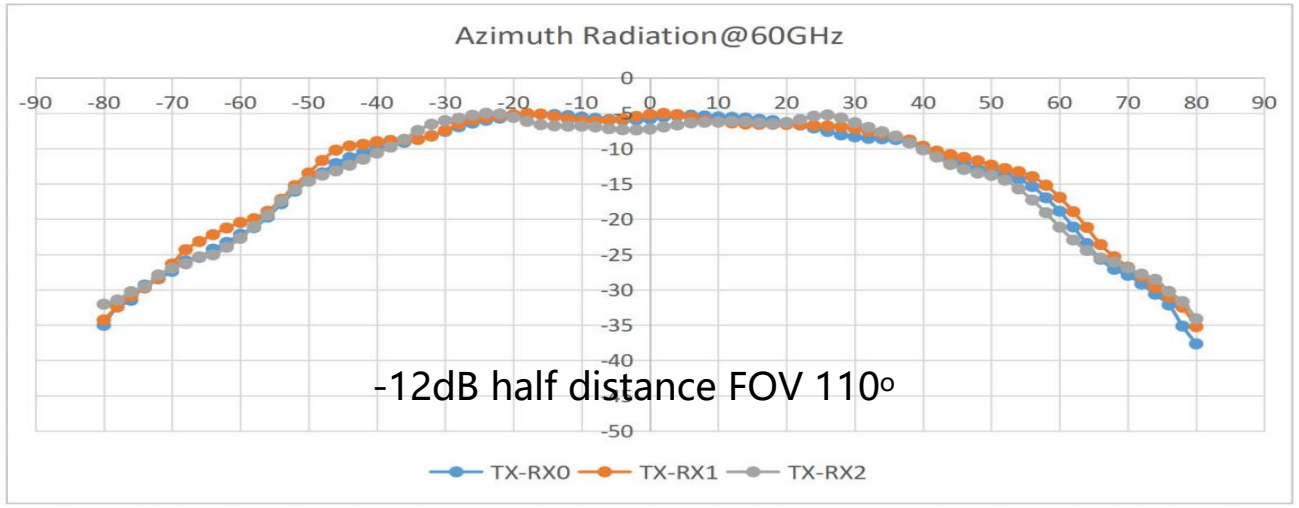


Figure 5-2 Antenna Azimuth(XOZ) Radiation Pattern[1,2]

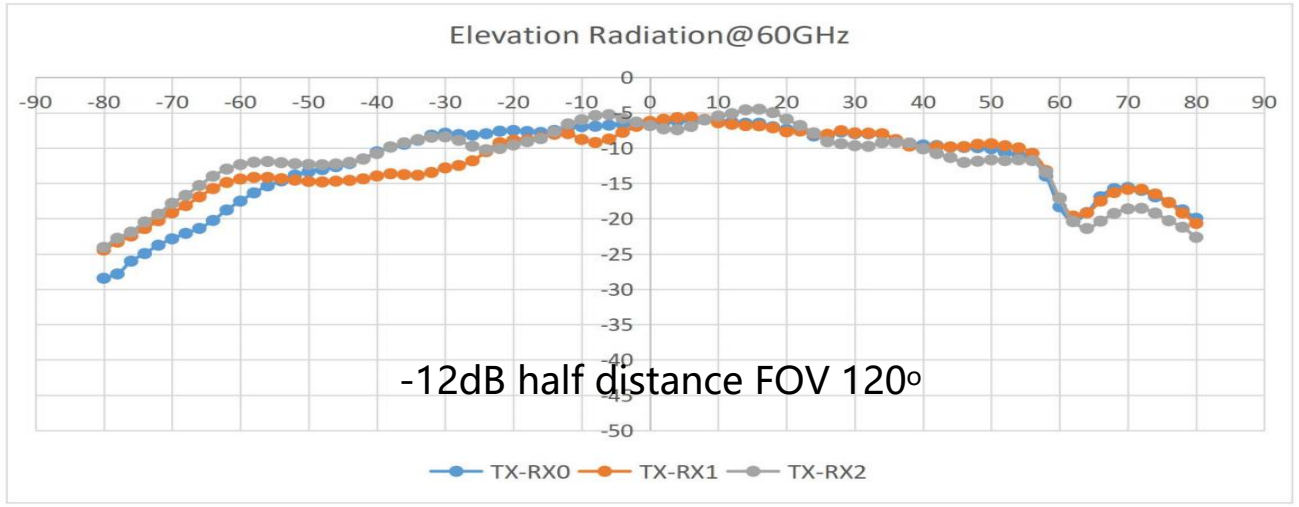


Figure 5-3 Antenna Elevation(YOZ) Radiation Pattern[1,2]