



上海增信电子有限公司

Signal Plus Technology Co., Ltd.

Model name :6385F00008.

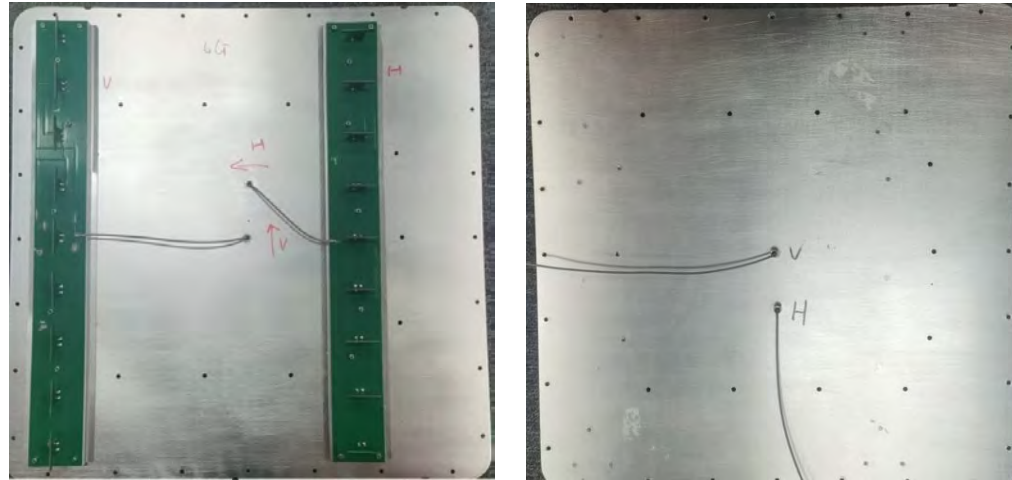
Antenna Test Report

20250801



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Gui Qing road, Xuhui district,
Shanghai, 20233, China

Tel:021-54266190 Fax:021-54266191 Web:www.zxsignalplus.com



Data Preview

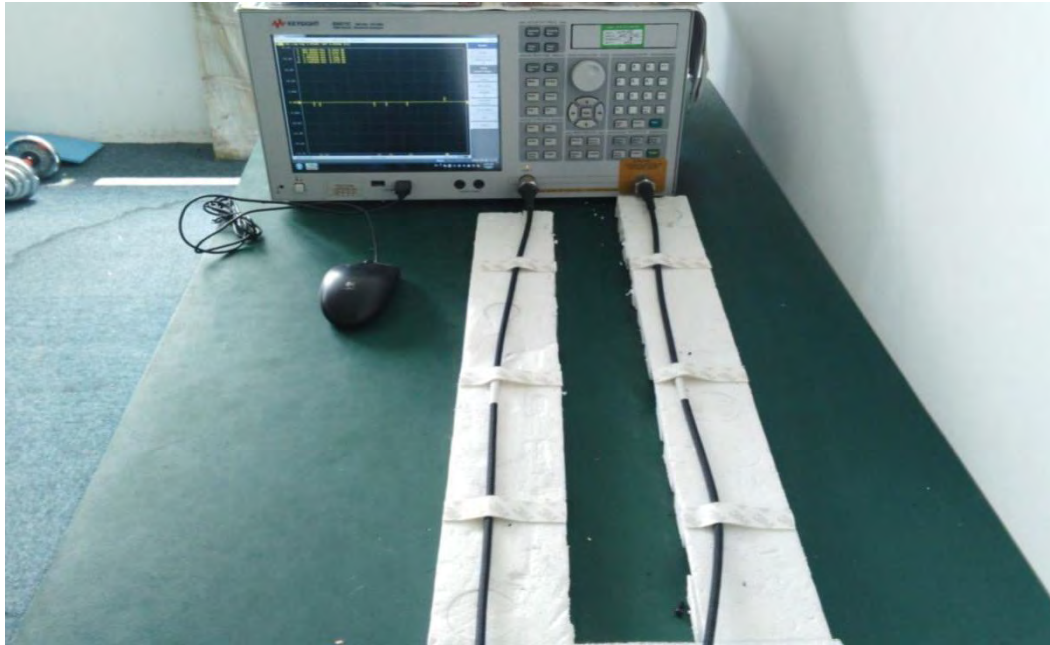
Freq (GHz)		5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2
Gain (dBi)	H-P	15.3	15.3	15.5	14.9	15.1	14.4	14.5	14.6	15.2	14.8	15.1	15.2	15.1	15.0
	V-P	15.3	15.0	14.8	14.4	14.6	14.9	15.2	15.5	15.5	15.6	15.7	15.6	15.3	15.6
E-Plane Beamwidth	H-P	11.0	11.0	11.0	17.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	10.0
	V-P	11.0	10.0	11.0	11.0	10.0	11.0	11.0	11.0	11.0	10.0	10.0	11.0	10.0	10.0
H-Plane Beamwidth	H-P	85.0	85.0	85.0	85.0	85.0	86.0	88.0	87.0	89.0	90.0	91.0	98.0	102.0	100.0
	V-P	86.0	88.0	88.0	90.0	88.0	89.0	90.0	88.0	87.0	85.0	85.0	86.0	86.0	92.00
Front to Back Ratio	H-P	25.3	26.3	26.5	29.6	30.1	28.4	25.4	25.8	25.8	28.2	25.2	25.1	25.6	25.7
	V-P	25.4	25.2	25.2	25.7	25.2	25.7	25.4	26.9	26.7	26.4	25.7	25.6	25.6	25.7

1. RF Fixture Experiment

1.1 Test Setup

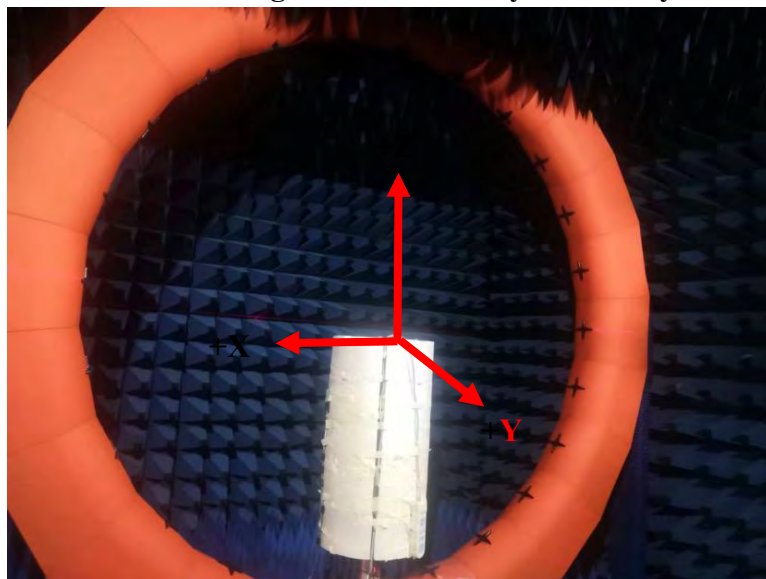
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an Keysight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



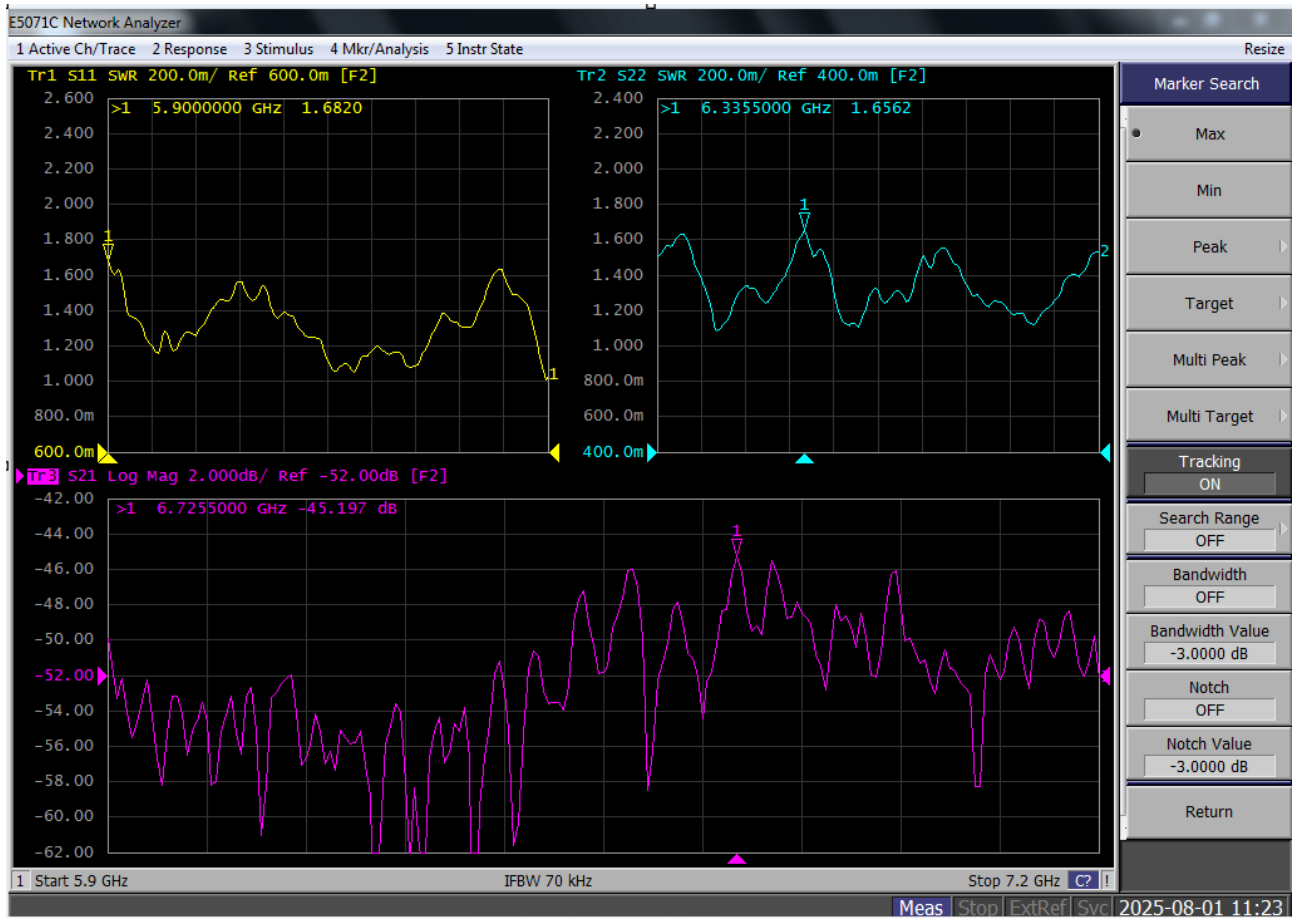
1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber. The chamber provides less than -30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is: 7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



2. Antenna Solution

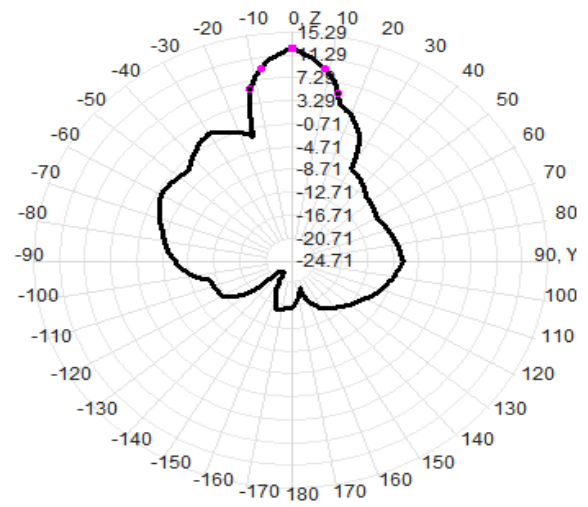
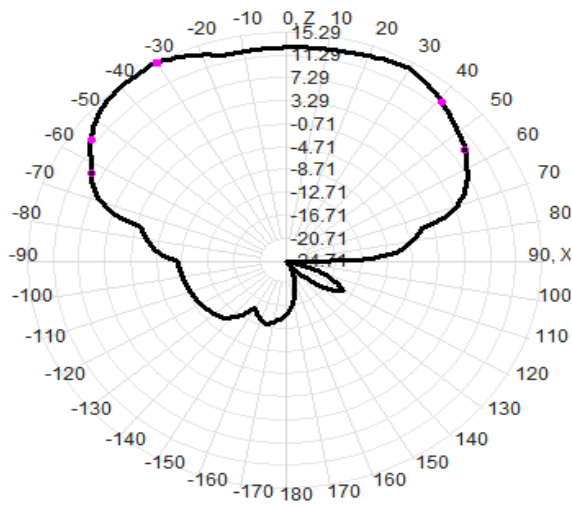
S Parameter



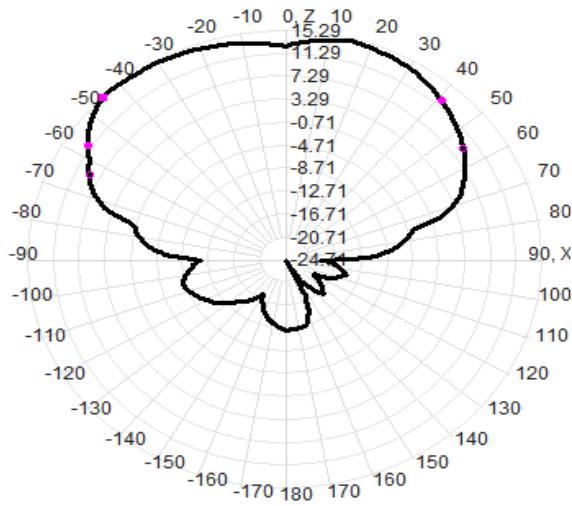
Isolation

VSWR (Max)	H-P	1.68
	V-P	1.66
Isolation (dB)		45.2

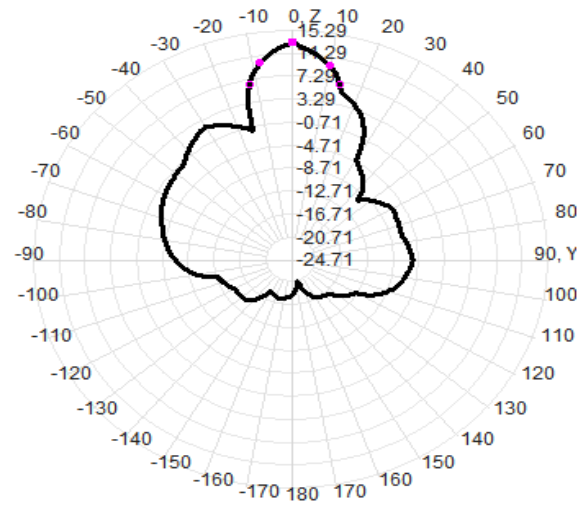
Pattern H-polarization



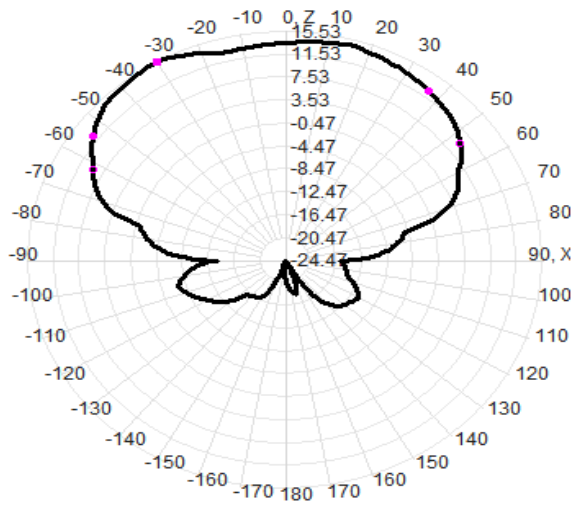
5.9GHz H-plane



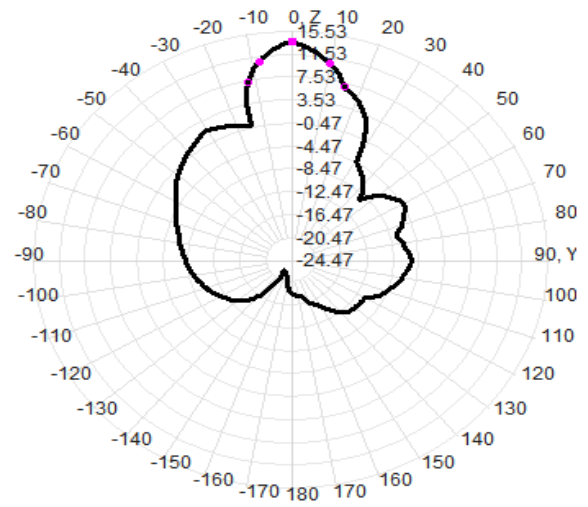
5.9GHz E-plane



6.0GHz H-plane



6.0GHz E-plane

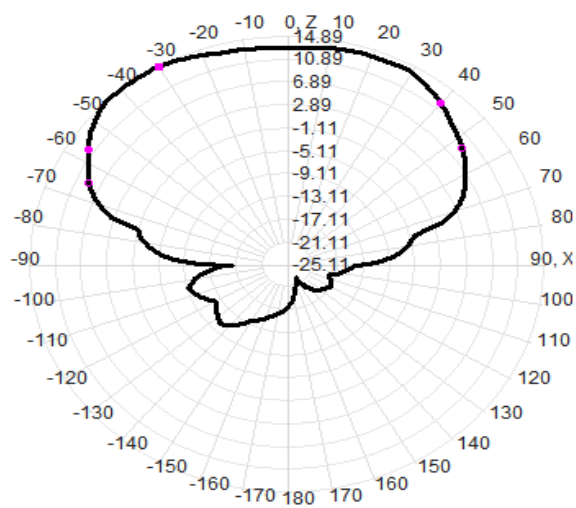


6.1GHz H-plane

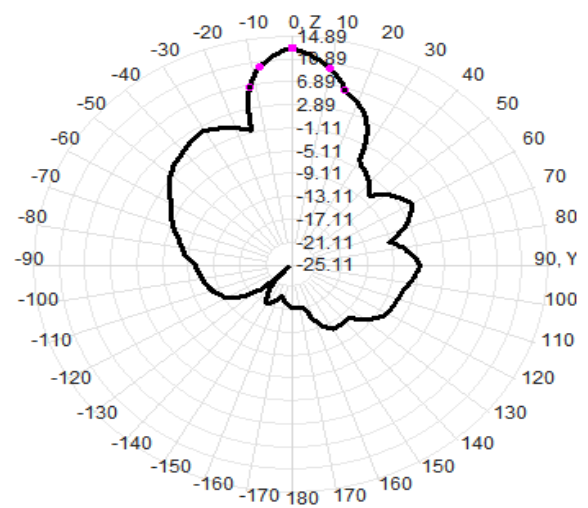


6.1GHz E-plane

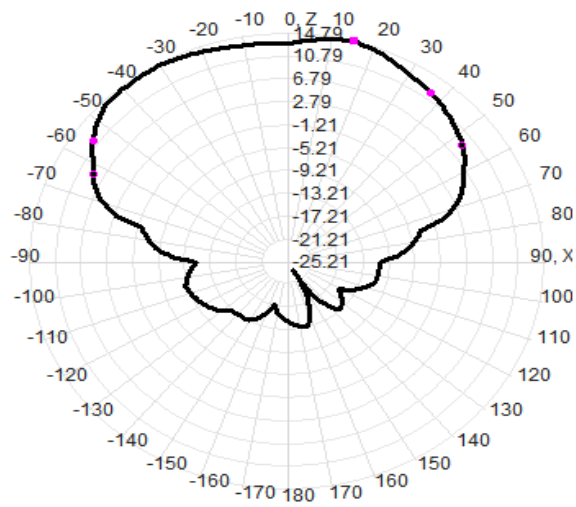




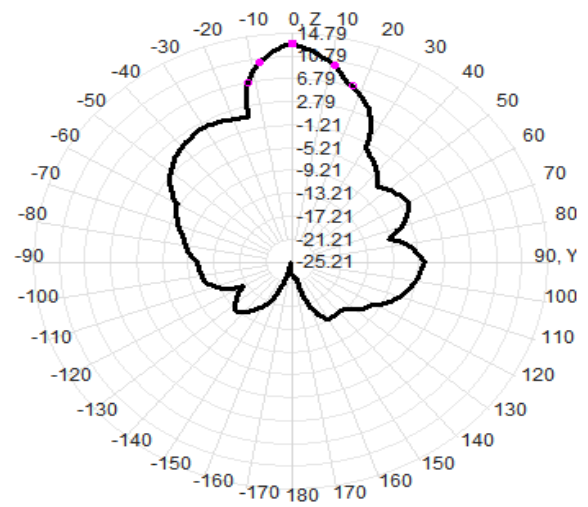
6.2GHz H-plane



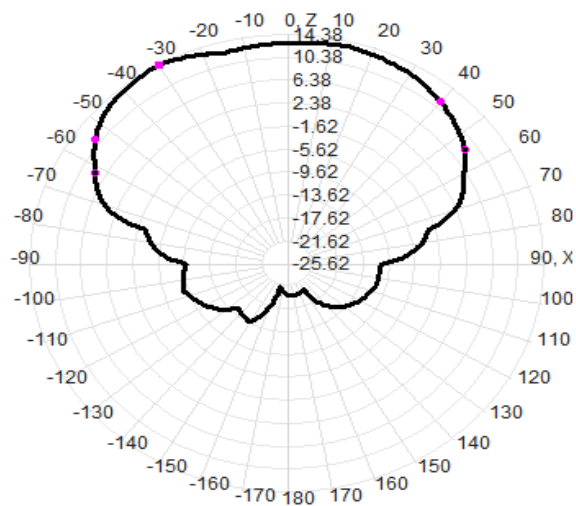
6.2GHz E-plane



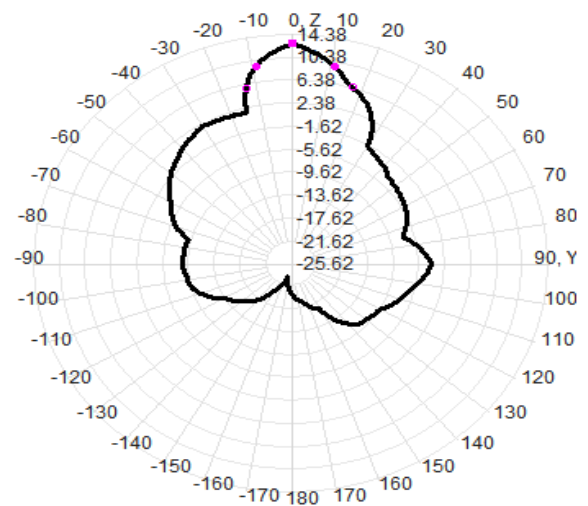
6.3GHz H-plane



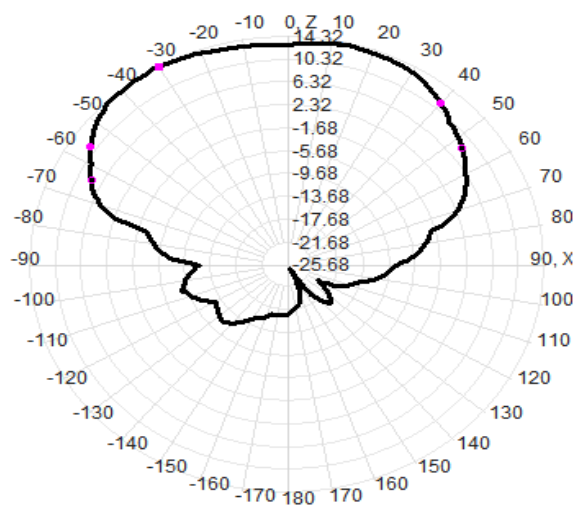
6.3GHz E-plane



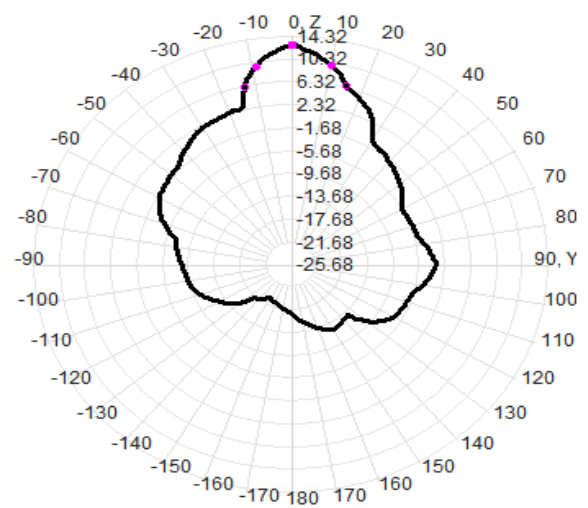
6.4GHz H-plane



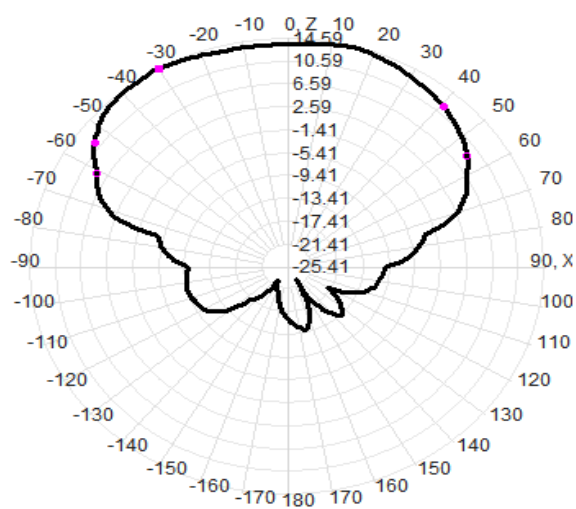
6.4GHz E-plane



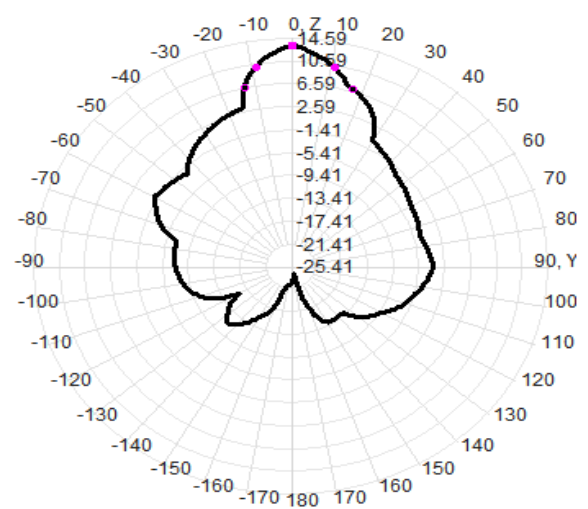
6.5GHz H-plane



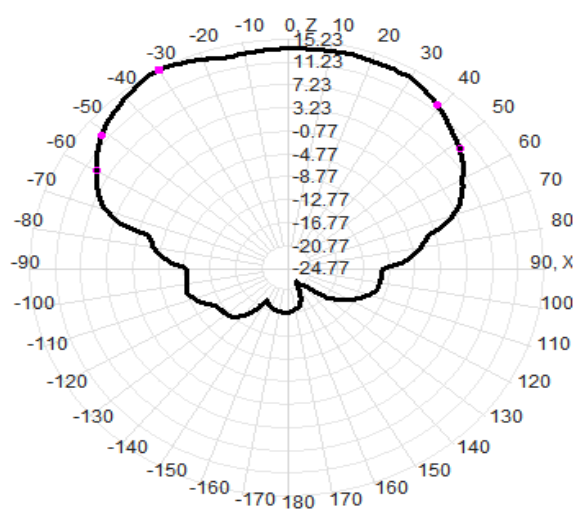
6.5GHz E-plane



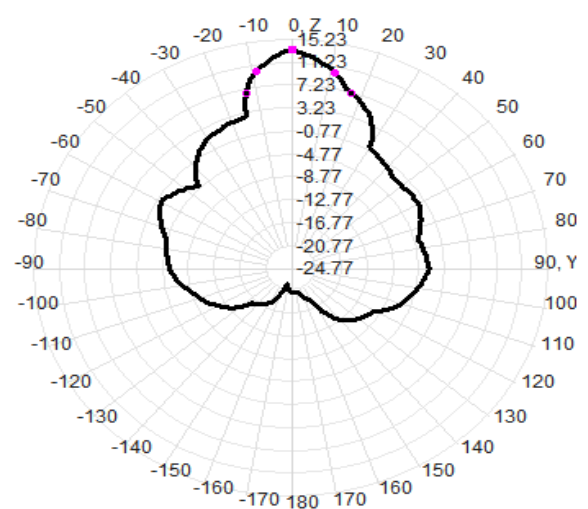
6.6GHz H-plane



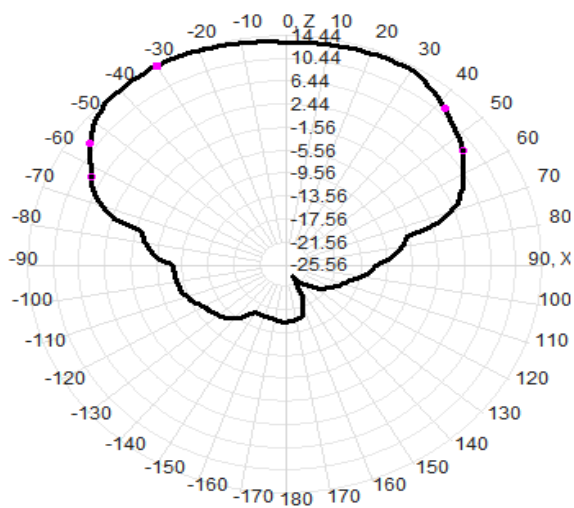
6.6GHz E-plane



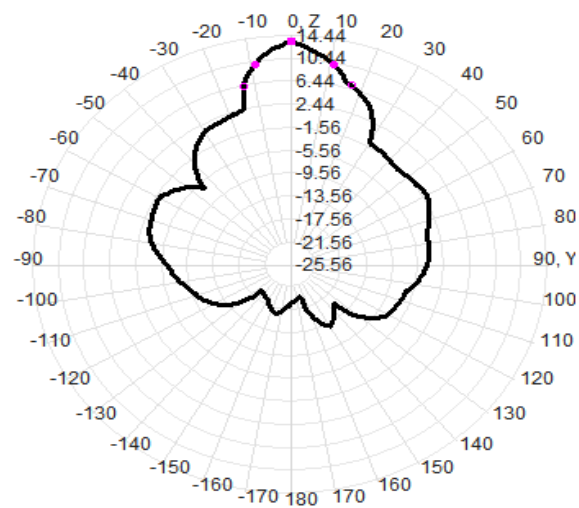
6.7GHz H-plane



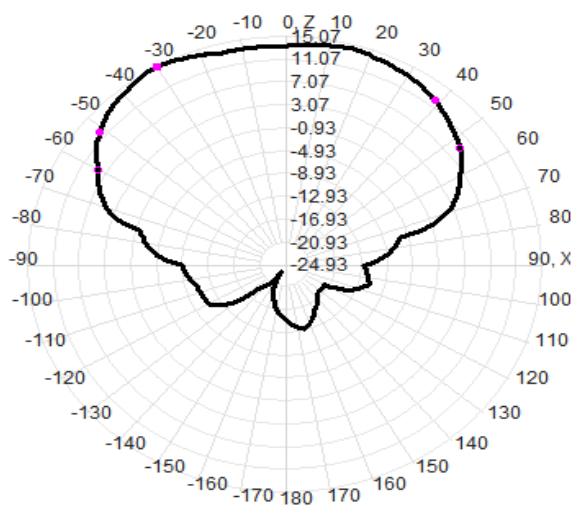
6.7GHz E-plane



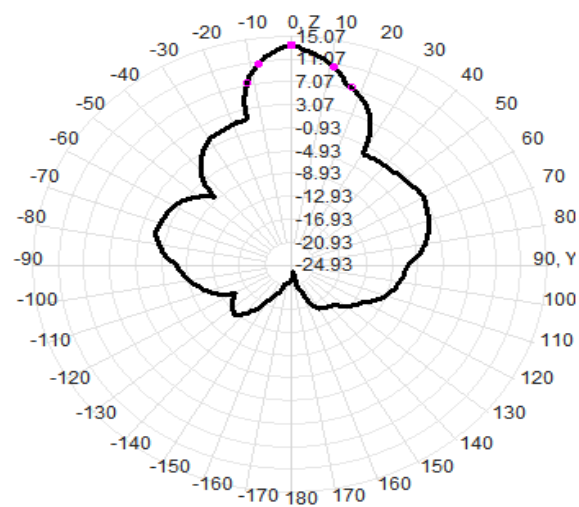
6.8GHz H-plane



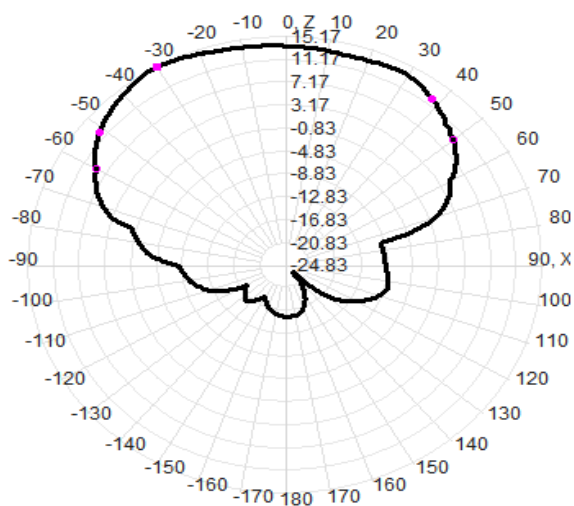
6.8GHz E-plane



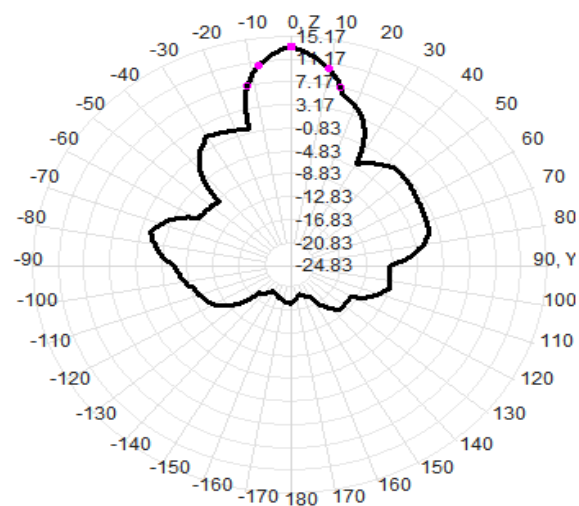
6.9GHz H-plane



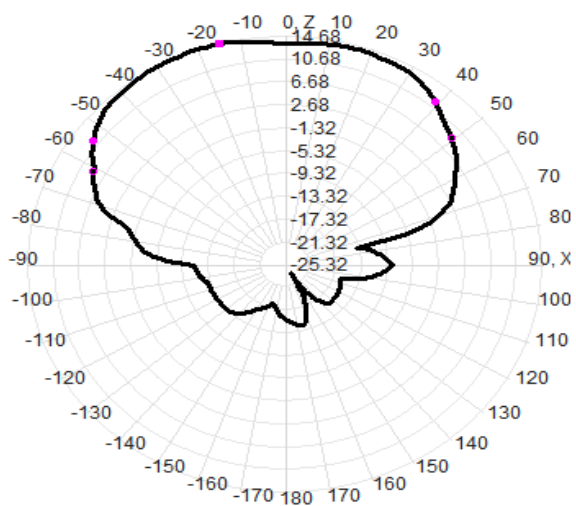
6.9GHz E-plane



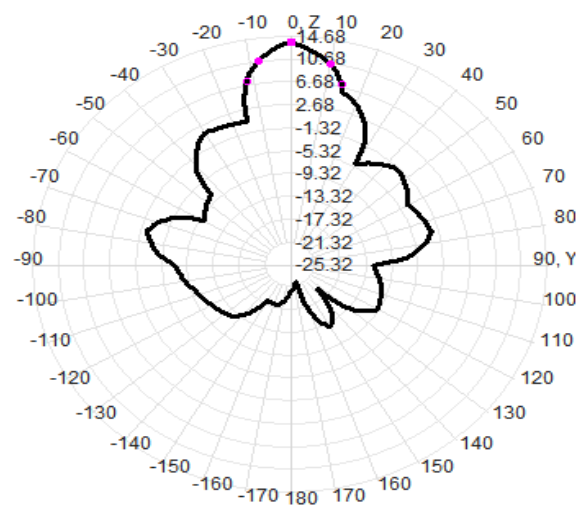
7.0GHz H-plane



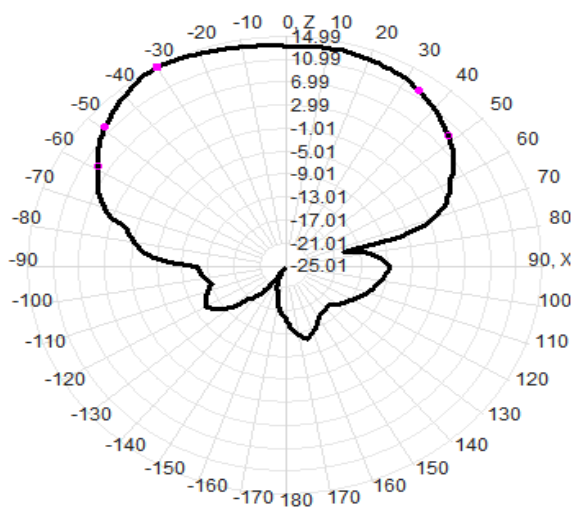
7.0GHz E-plane



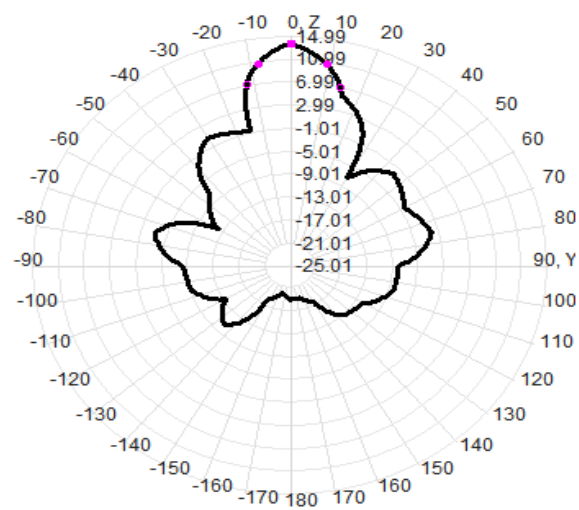
7.1GHz H-plane



7.1GHz E-plane

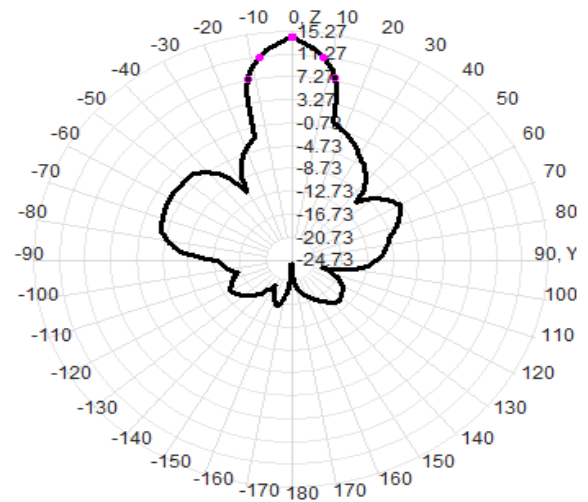
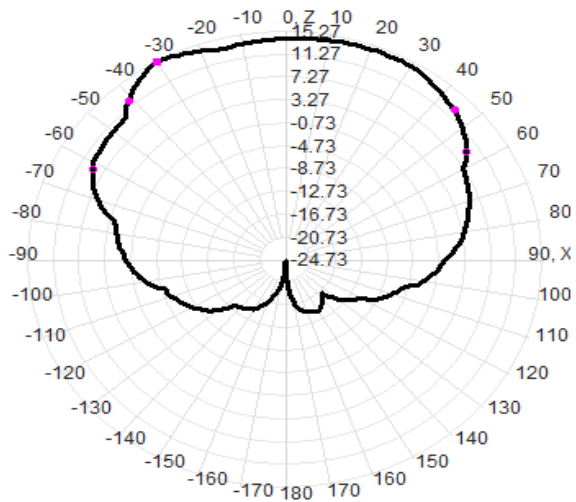


7.2GHz H-plane

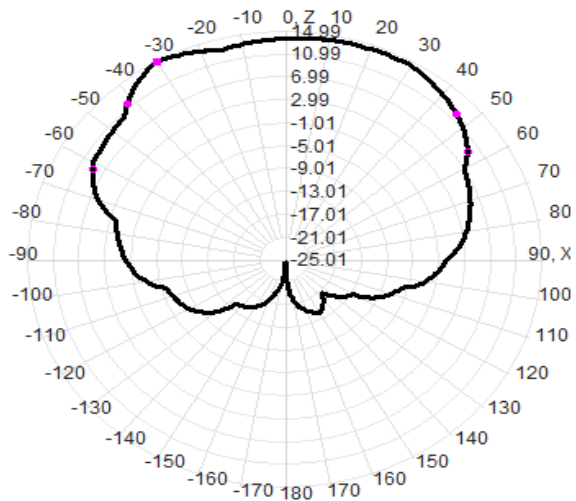


7.2GHz E-plane

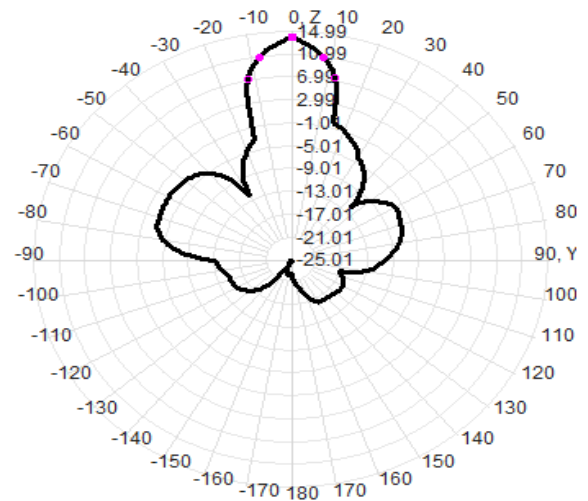
V-polarization



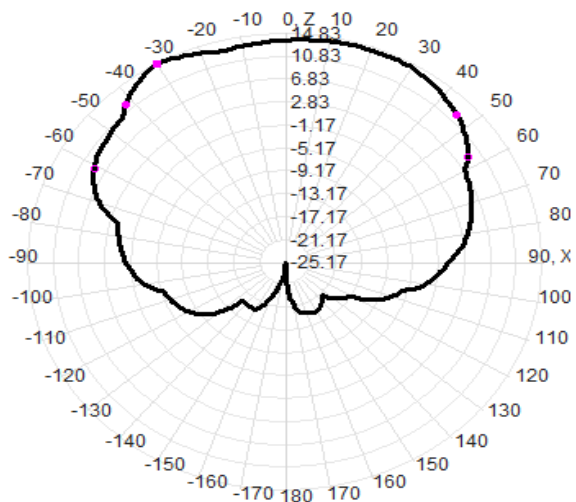
5.9GHz H-plane



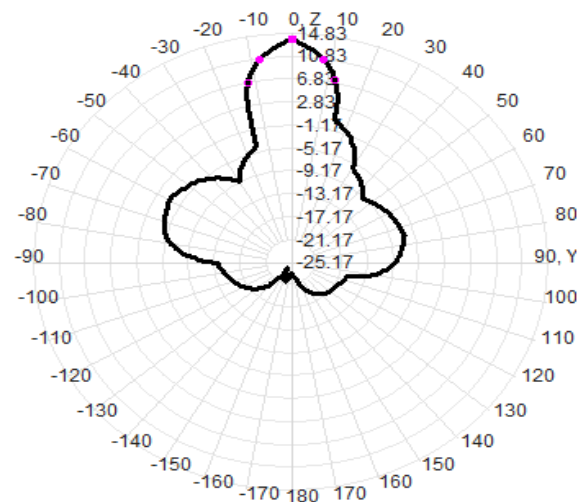
5.9GHz E-plane



6.0GHz H-plane

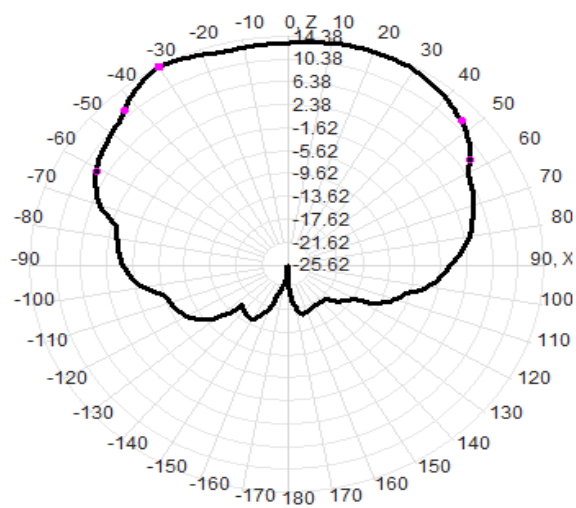


6.0GHz E-plane

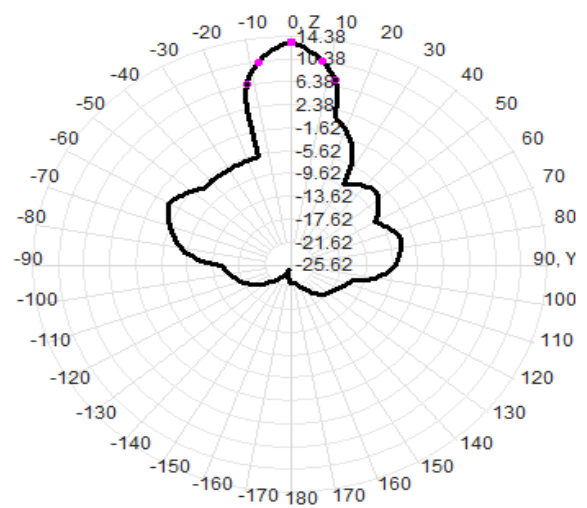


6.1GHz H-plane

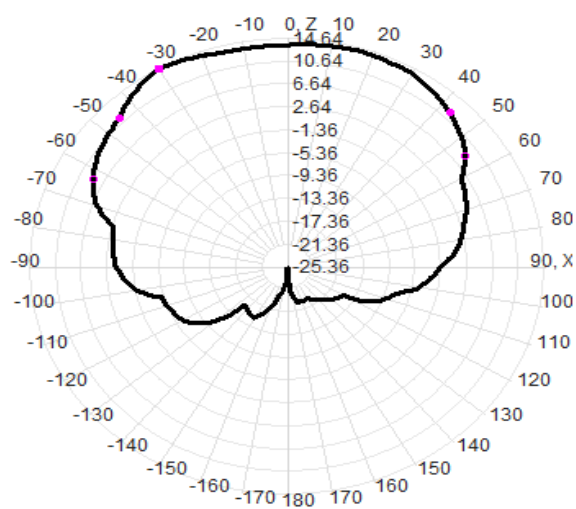
6.1GHz E-plane



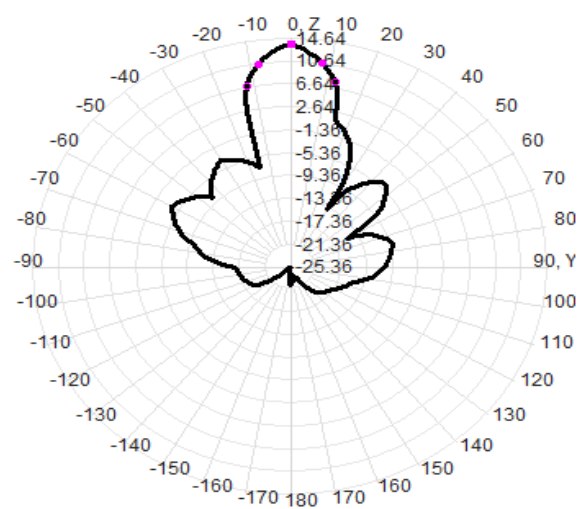
6.2GHz H-plane



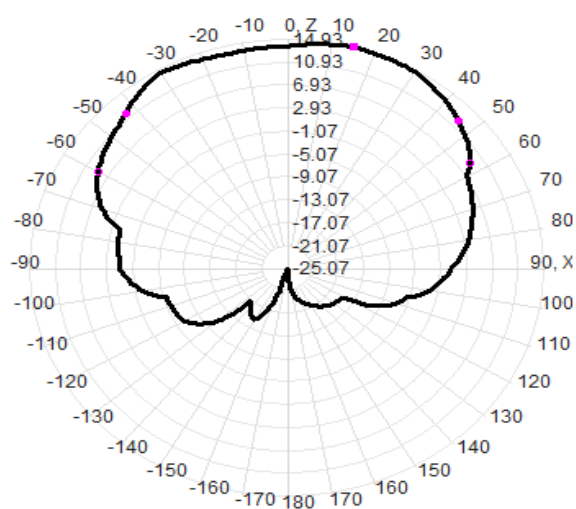
6.2GHz E-plane



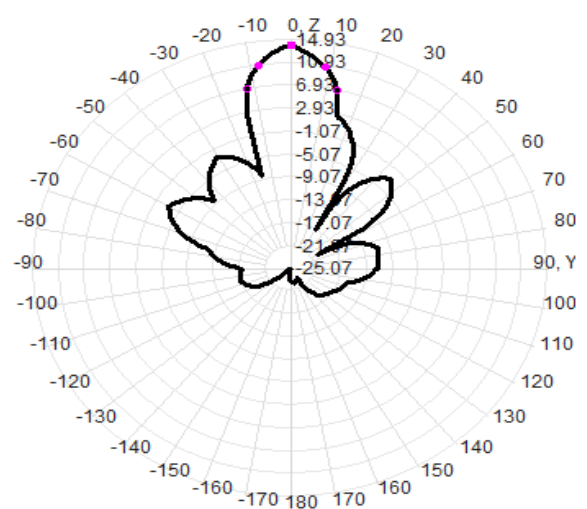
6.3GHz H-plane



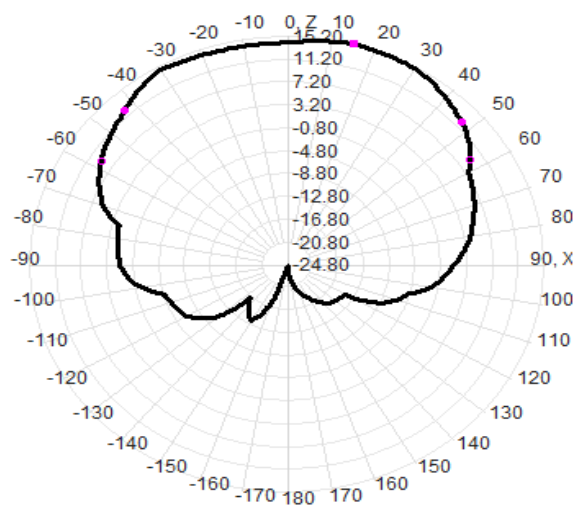
6.3GHz E-plane



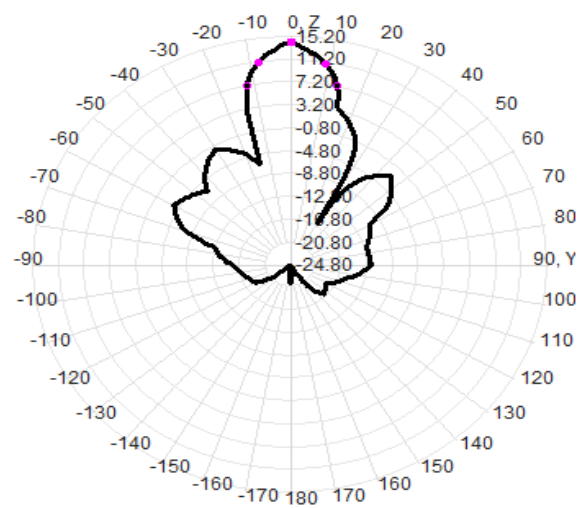
6.4GHz H-plane



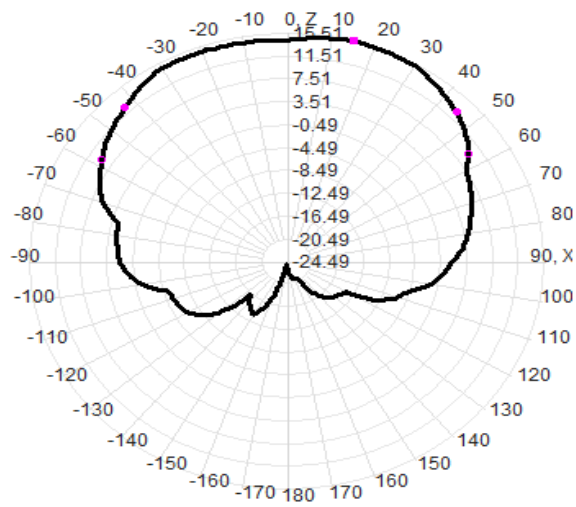
6.4GHz E-plane



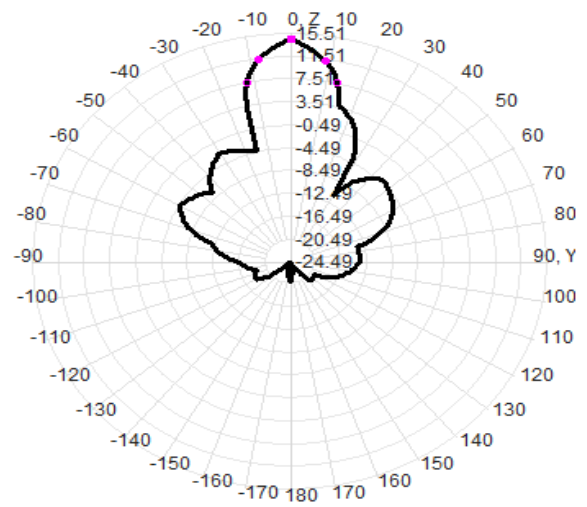
6.5GHz H-plane



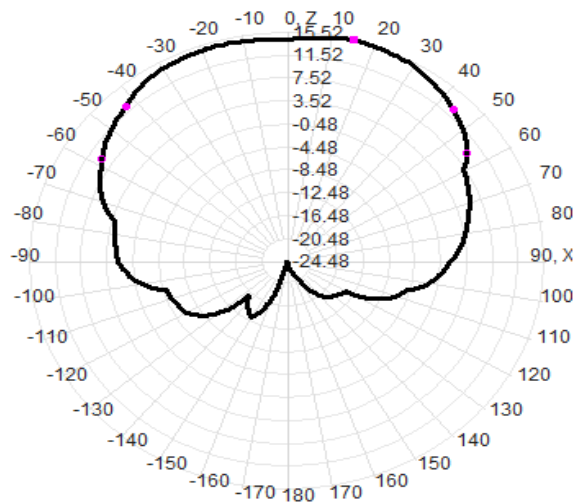
6.5GHz E-plane



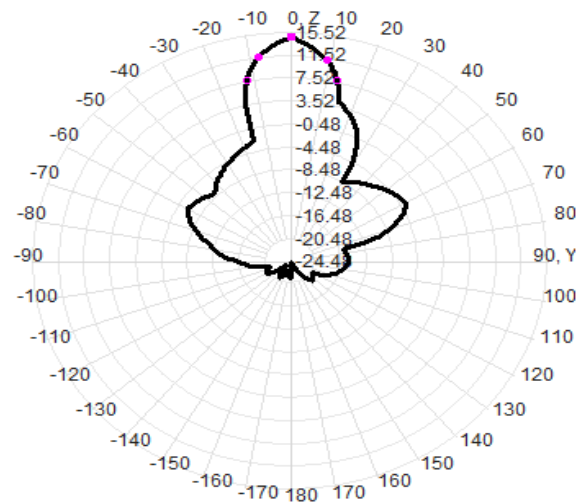
6.6GHz H-plane



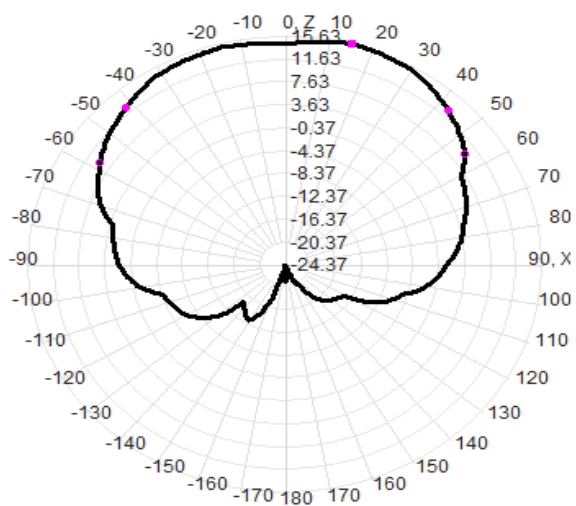
6.6GHz E-plane



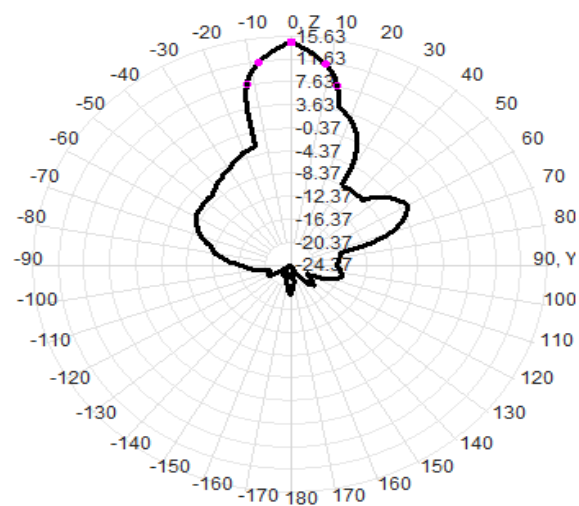
6.7GHz H-plane



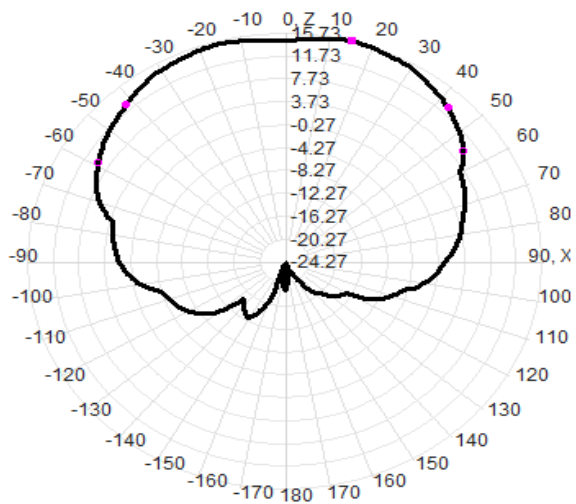
6.7GHz E-plane



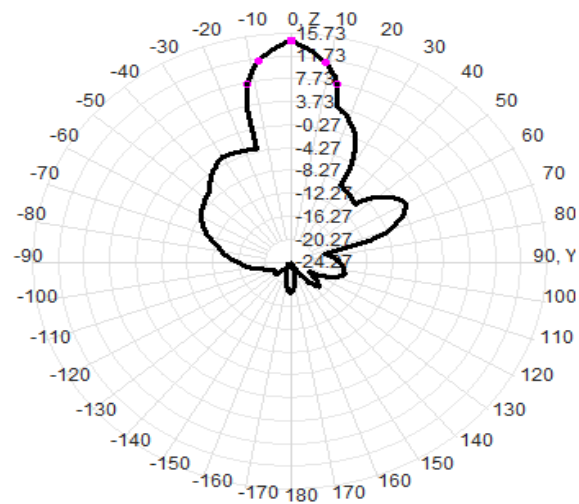
6.8GHz H-plane



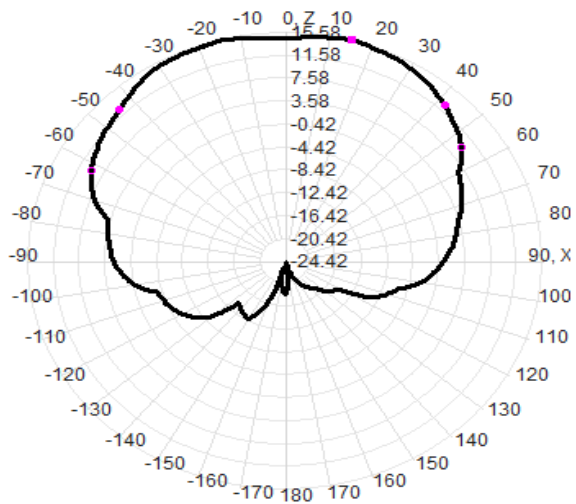
6.8GHz E-plane



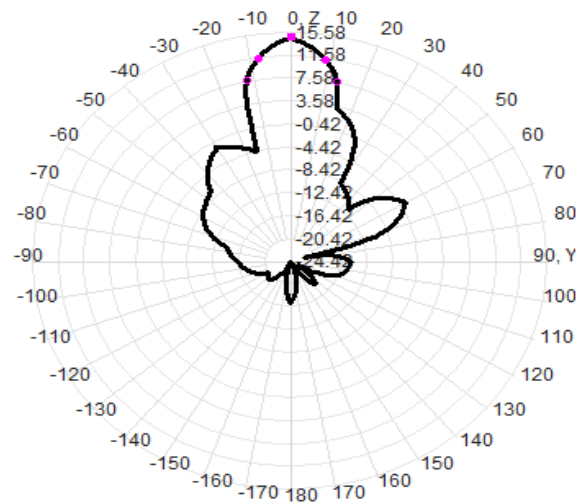
6.9GHz H-plane



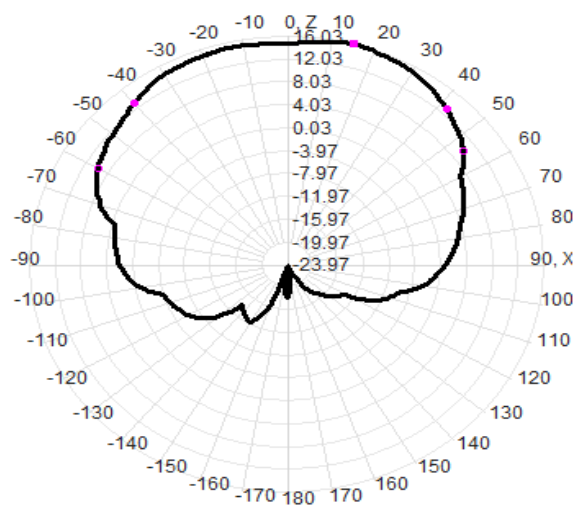
6.9GHz E-plane



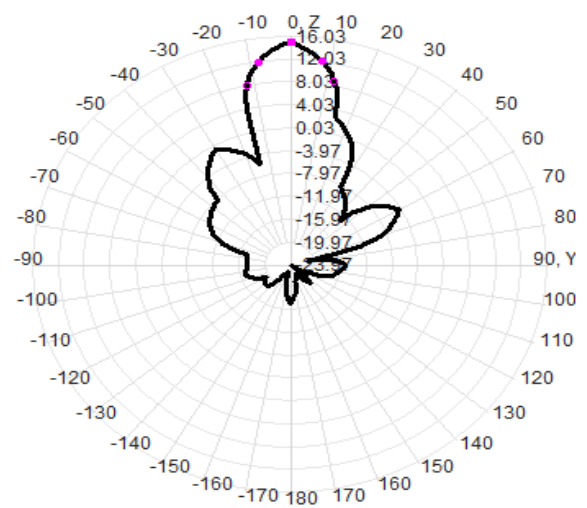
7.0GHz H-plane



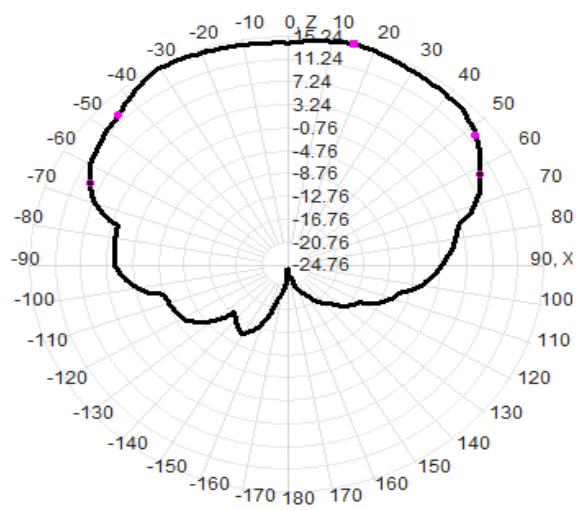
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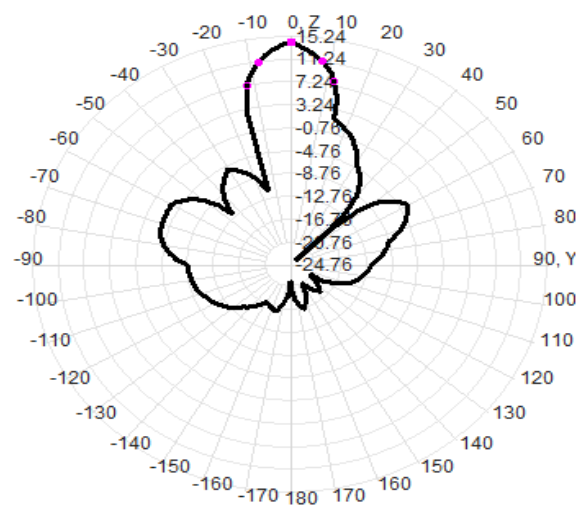
7.1GHz H-plane



7.1GHz E-plane



7.2GHz H-plane



7.2GHz E-plane