

Antenna Regulatory Information

• Product type	• WWAN antenna
• Model number	• Dell / QiaoHong (8.9" LCD Panel)
• Revision	• A00
• WNC PN / Right Antenna	• 81.EJL15.002
• WNC PN / Left Antenna	• 81.EJL15.001
• Part No. / Wistron / Right	• DC33000H210
• Part No. / Wistron / Left	• DC33000H200

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1. Specifications

Antenna Specifications

Antenna Type (Material, Technology)	Inverted-F Antenna. Metal Stamping Based.
Antenna Model Number	Dell / QiaoHong 8.9" LCD Panel)
Operating Frequency Range(s)	Main: 824~960MHz ; Aux: 869~894MHz Main: 1710~2170MHz ; Aux: 1930~2170MHz
Peak Gain (824MHz ~ 960MHz) (dBi)	Main -2.0dBi / Aux -3.09dBi
Peak Gain (1710MHz ~ 2170MHz) (dBi)	Main 1.08dBi / Aux -2.24dBi
Radio Connector Type	IPEX 20278-111R-13
Mid-Line Connector Type (If Applicable)	N/A

Remark: Peak Gains include all system losses (connector, cable, etc)

Cable Specifications

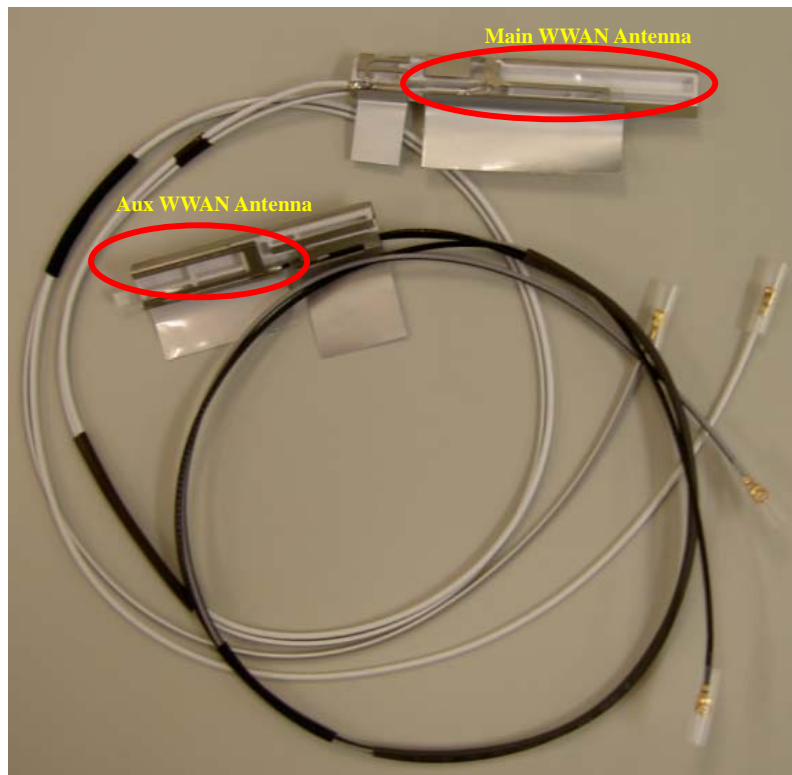
Cable Parameters	Main			Aux		
	LCD Side	Base Side	Total	LCD Side	Base Side	Total
Length (mm)	N/A	N/A	651mm	N/A	N/A	447mm
Loss (Including Connectors) (dB, 0.9GHz / 2GHz)			0.94dBi / 1.45dBi			0.62dBi / 1.00dBi
Description (Color, Diameter, Manufacturer)	Color: White/Gray Stripe OD: 1.37 mm Sumitomo or equivalent			Color: Black/Gray Stripe OD: 1.37 mm Sumitomor or equivalent		

2. Antenna Assembly

Main WWAN Antenna



Aux WWAN Antenna

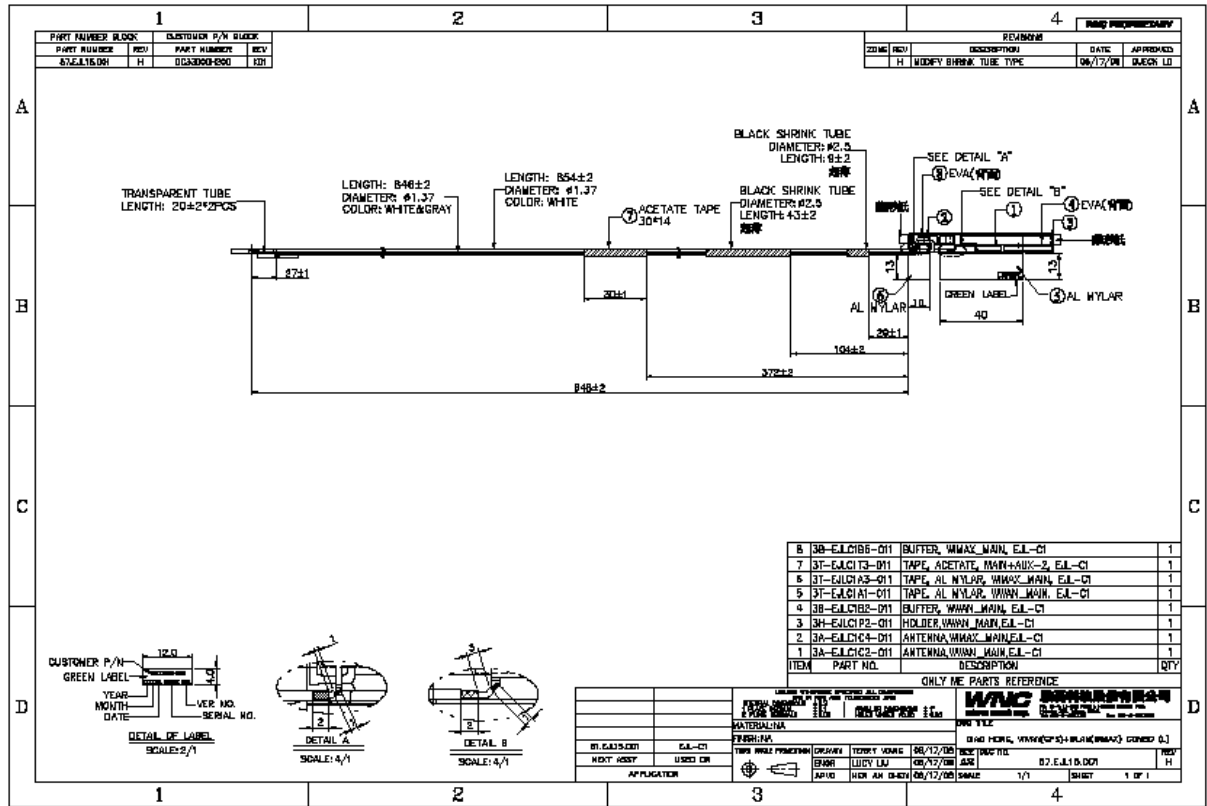


3. Antenna Assembly Installed in The Notebook

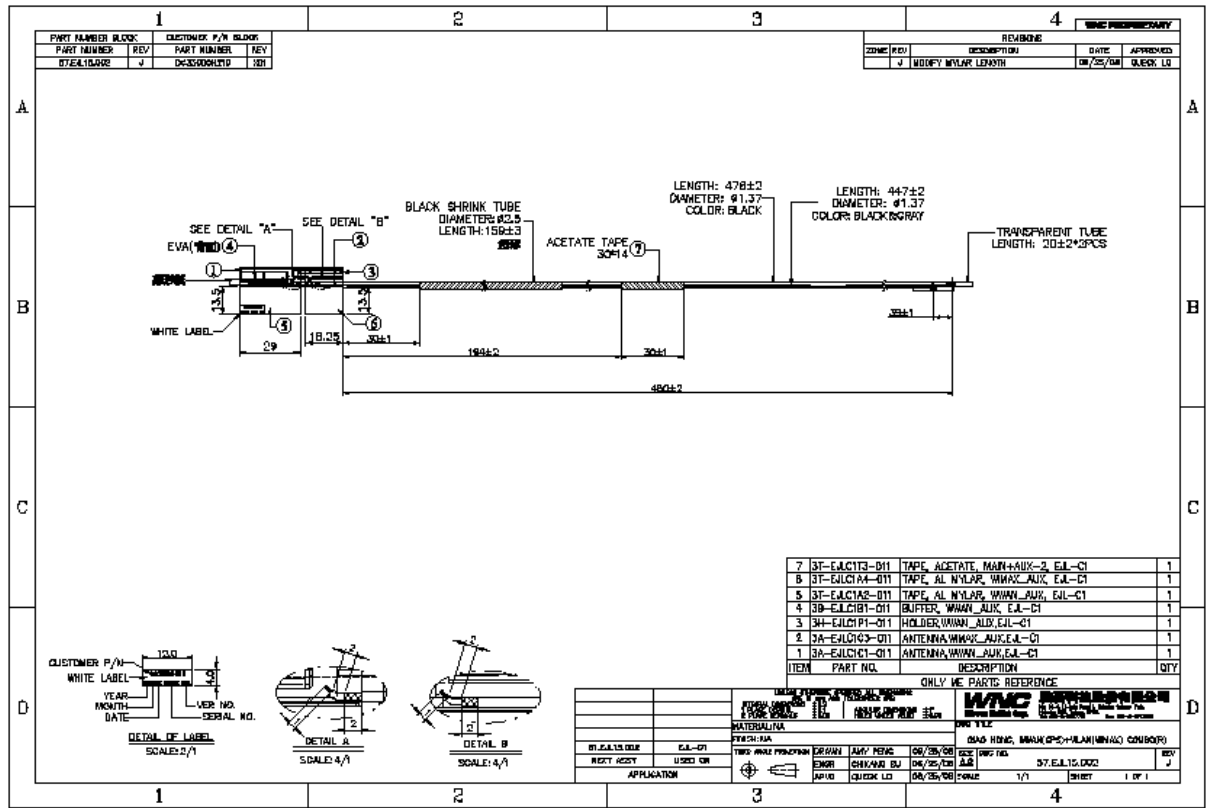


4. Mechanical Drawing of Antennas

Drawing Main WWAN Antenna:

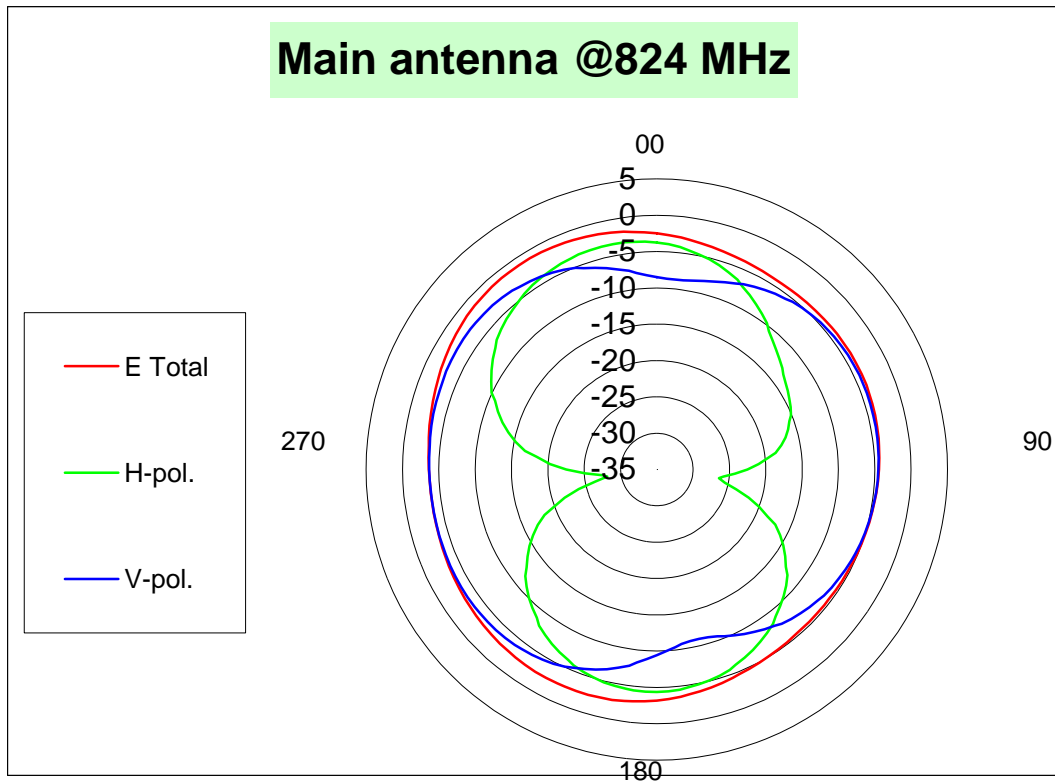


Drawing of Aux WWAN Antenna:



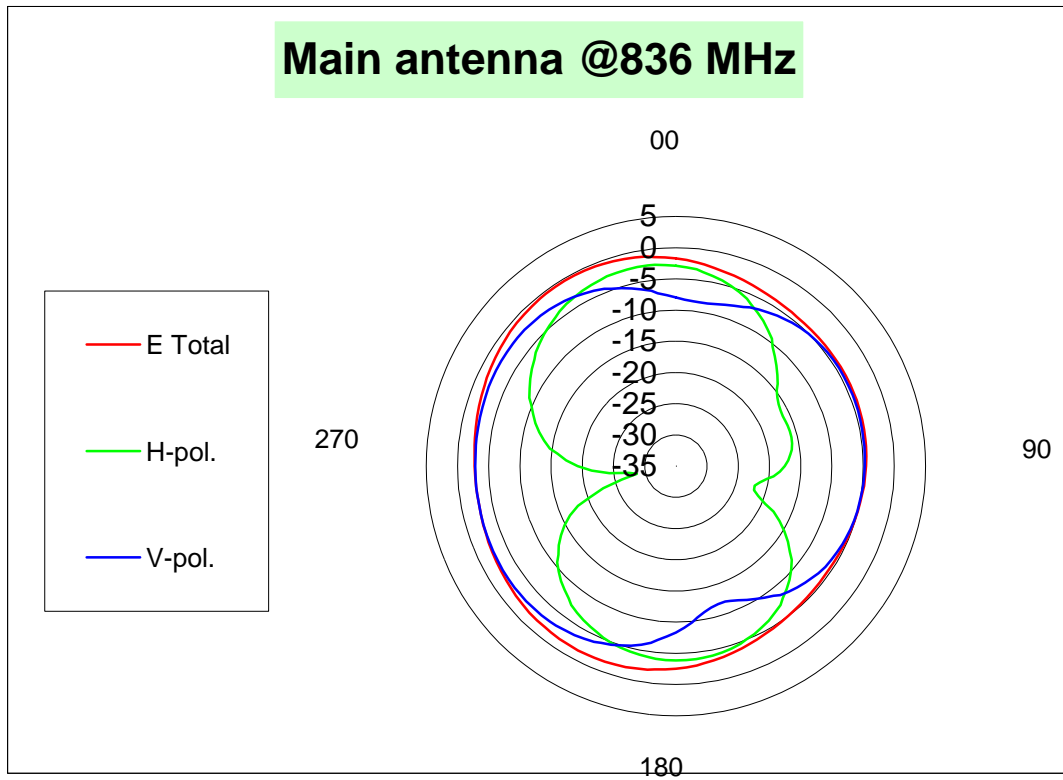
5. Gain Patterns

Main WWAN Antenna (824MHz)



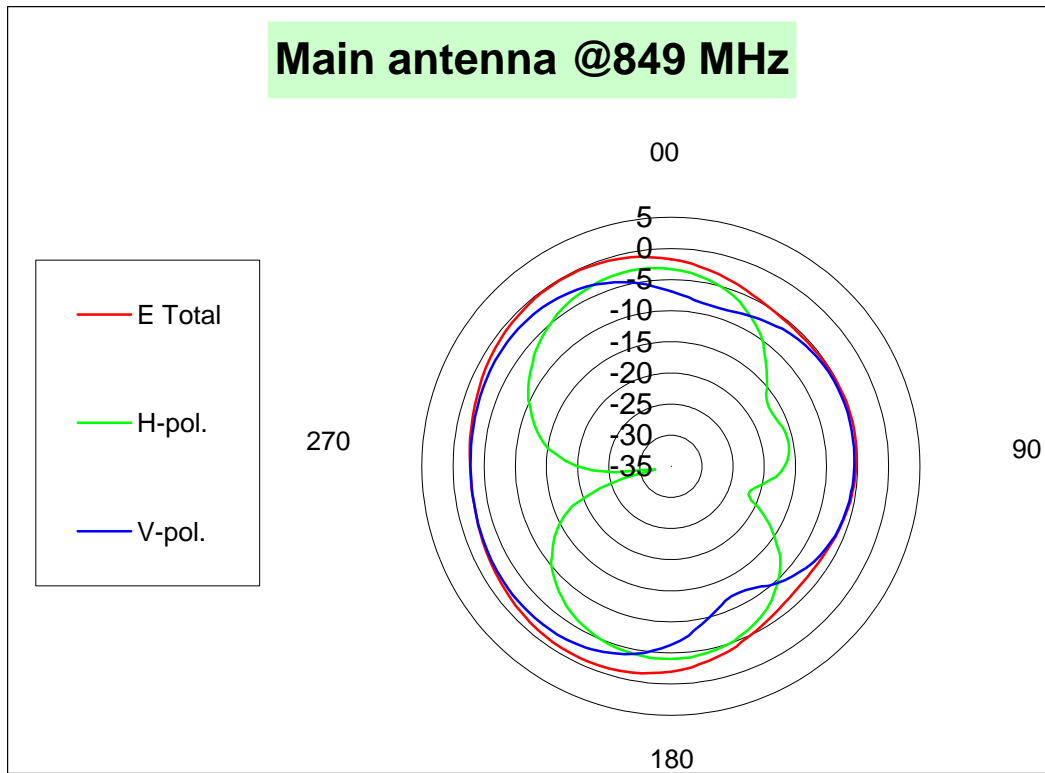
	H-pol	V pol
Peak Gain	-3.39	-2.90

Main WWAN Antenna (836MHz)



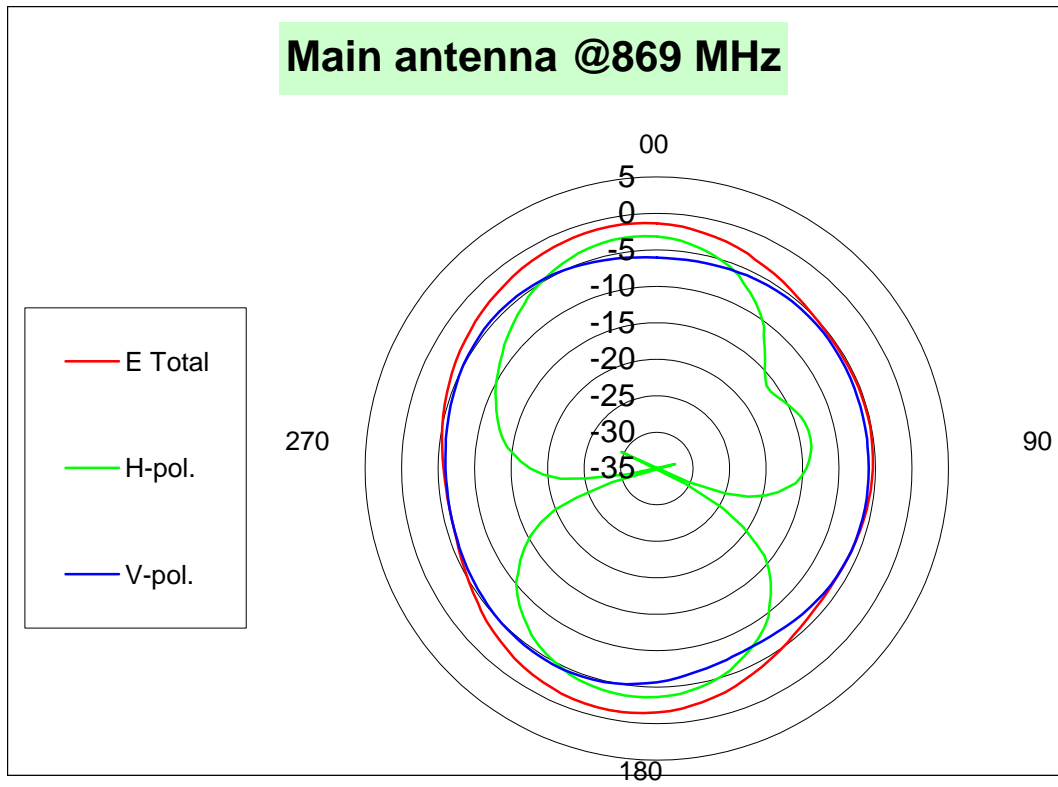
	H-pol	V pol
Peak Gain	-2.51	-2.32

Main WWAN Antenna (849MHz)



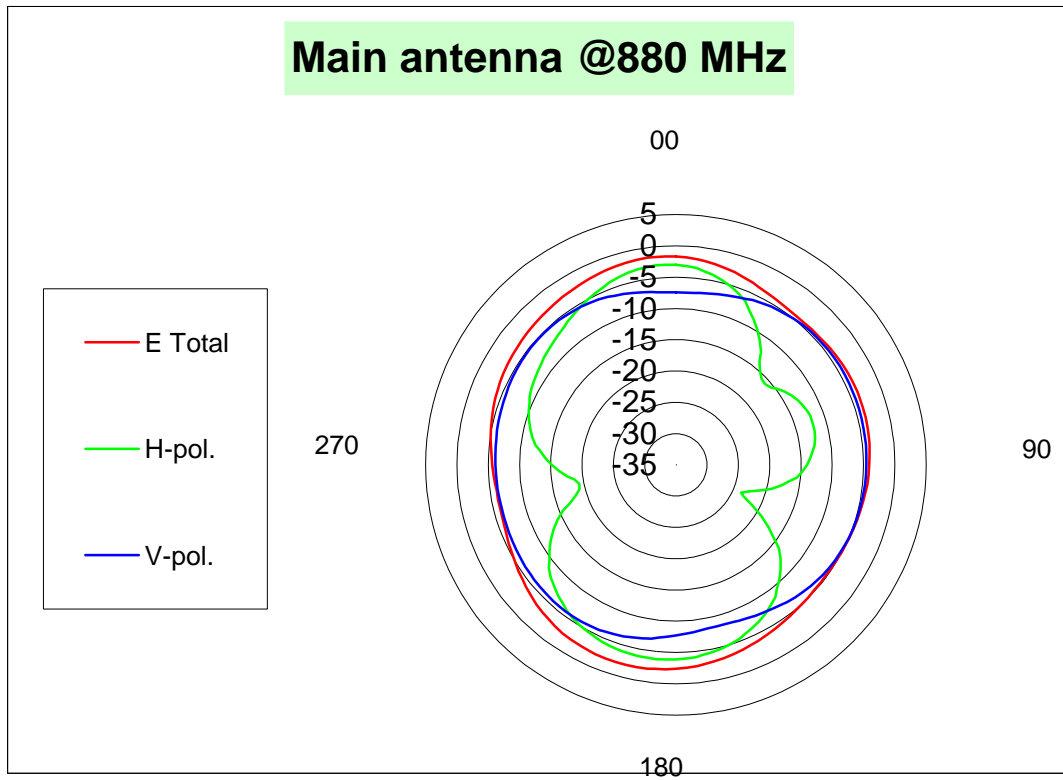
	H-pol	V pol
Peak Gain	-2.94	-2.00

Main WWAN Antenna (869MHz)



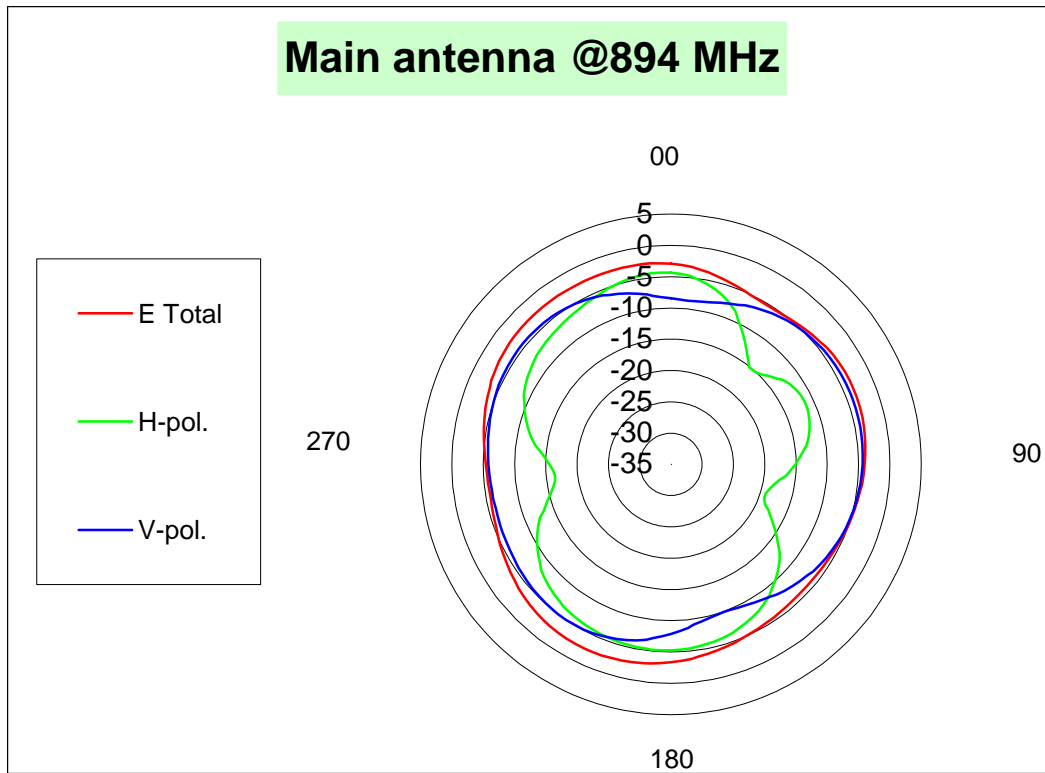
	H-pol	V pol
Peak Gain	-3.03	-4.53

Main WWAN Antenna (880MHz)



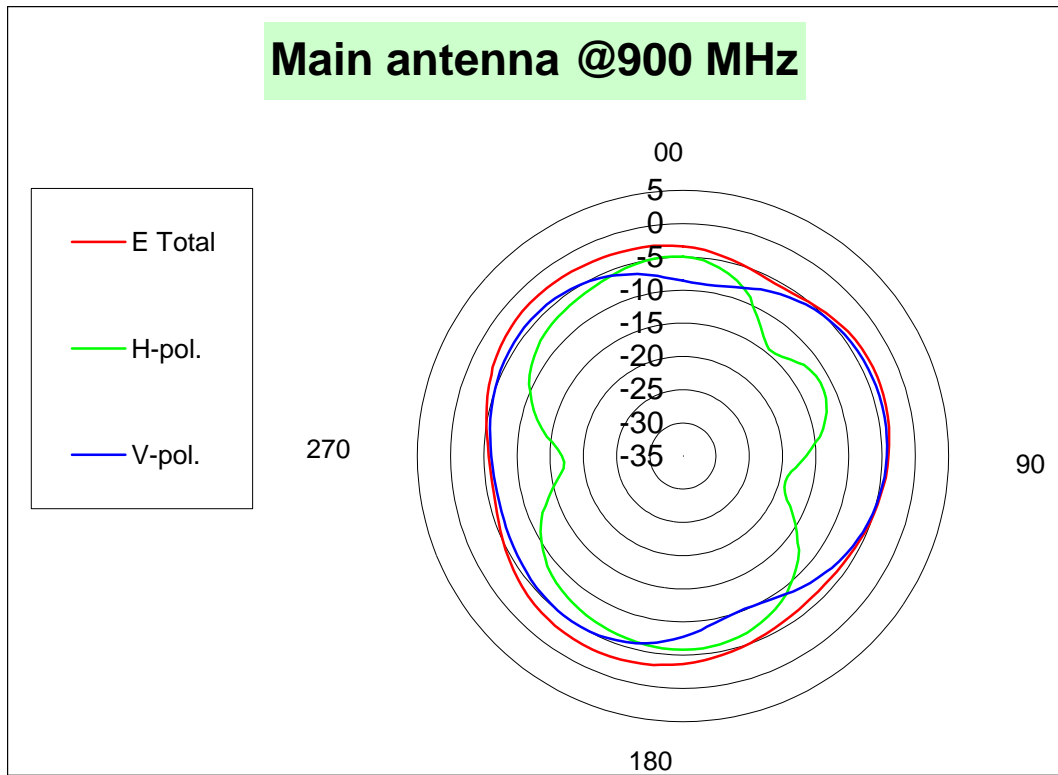
	H-pol	V pol
Peak Gain	-2.97	-4.39

Main WWAN Antenna (894MHz)



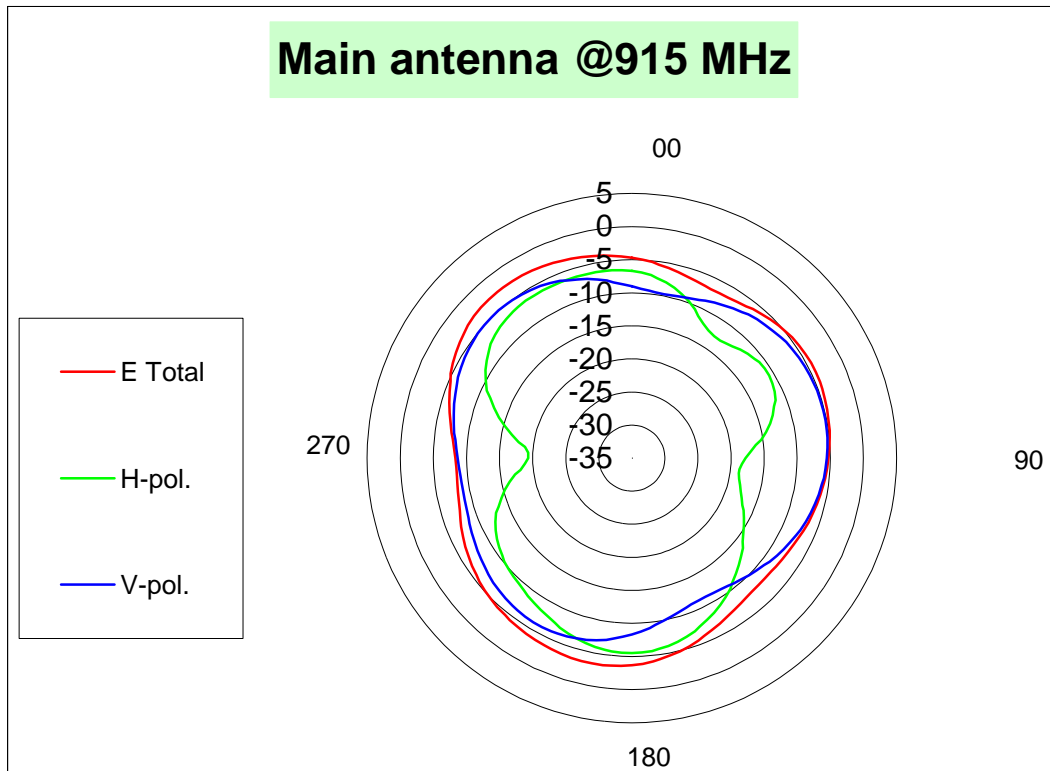
	H-pol	V pol
Peak Gain	-4.29	-4.14

Main WWAN Antenna (900MHz)



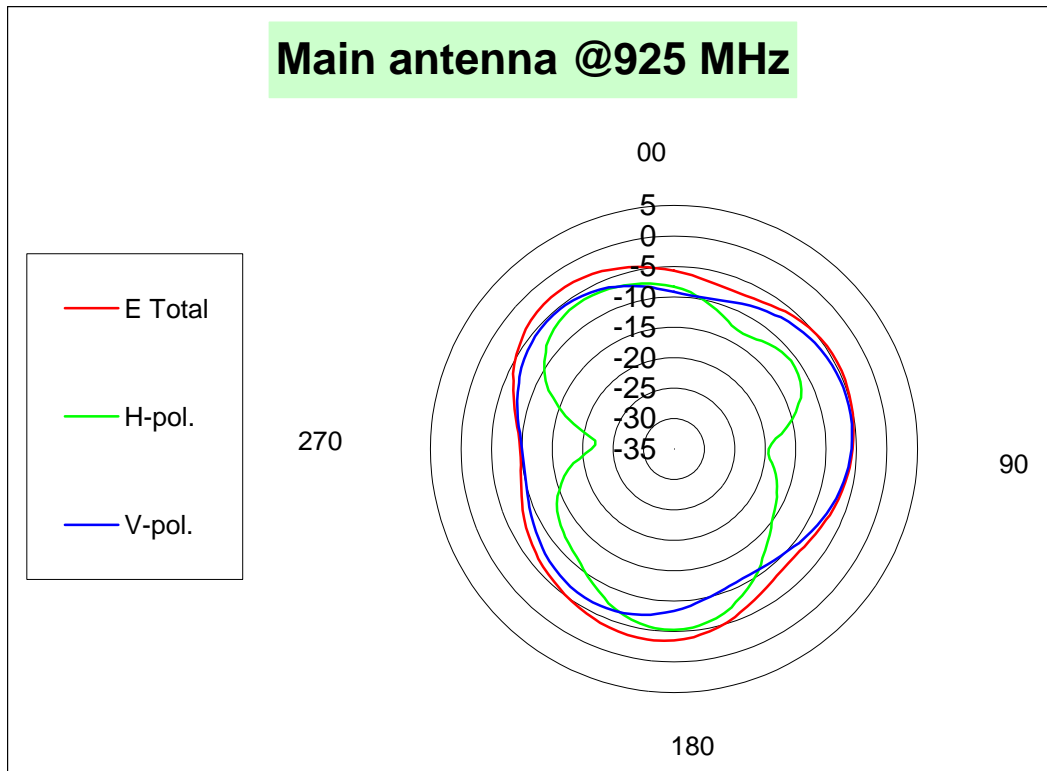
	H-pol	V pol
Peak Gain	-4.91	-4.04

Main WWAN Antenna (915MHz)



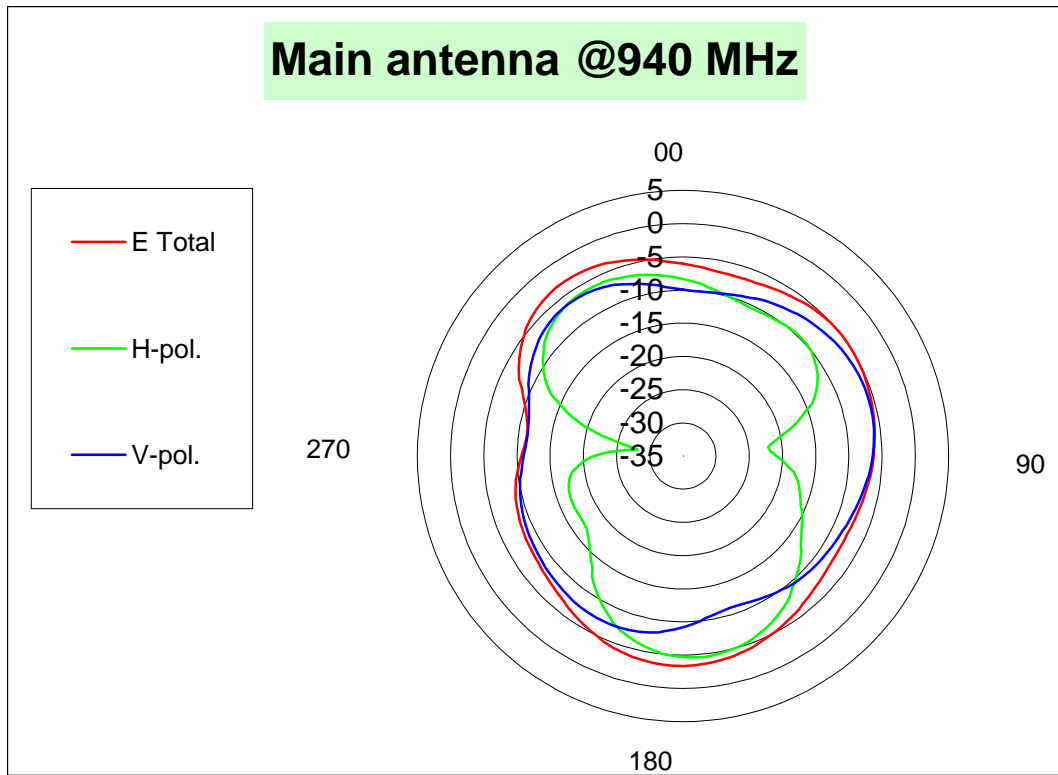
	H-pol	V pol
Peak Gain	-5.53	-4.95

Main WWAN Antenna (925MHz)



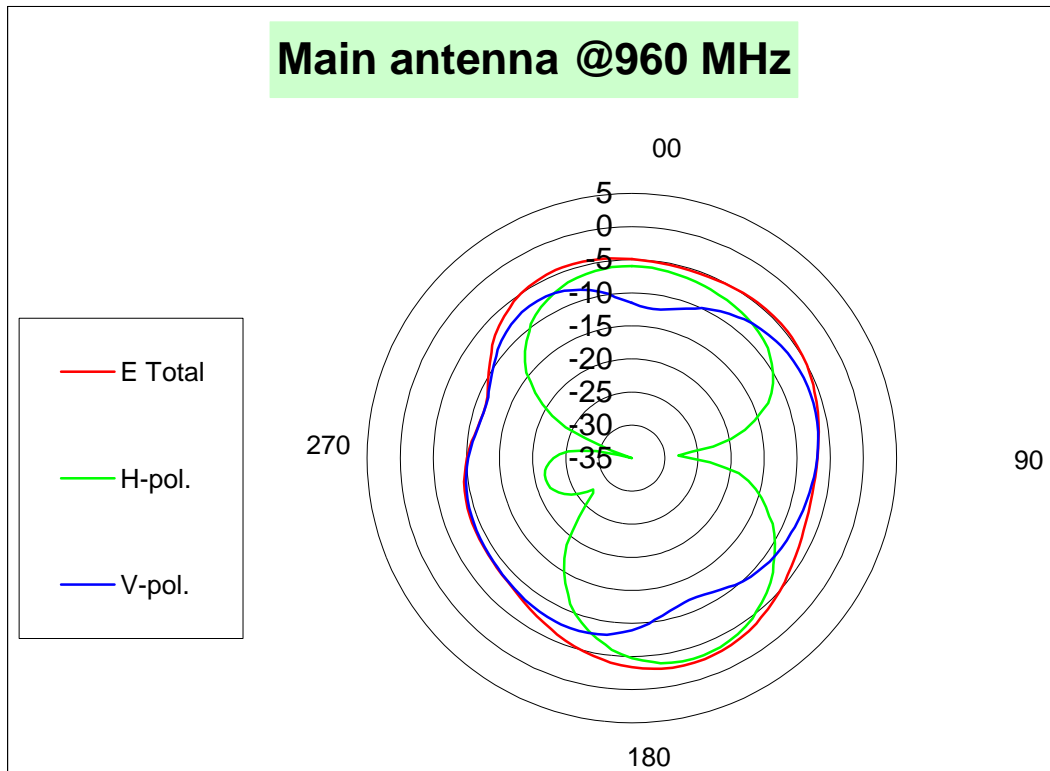
	H-pol	V pol
Peak Gain	-5.30	-5.37

Main WWAN Antenna (940MHz)



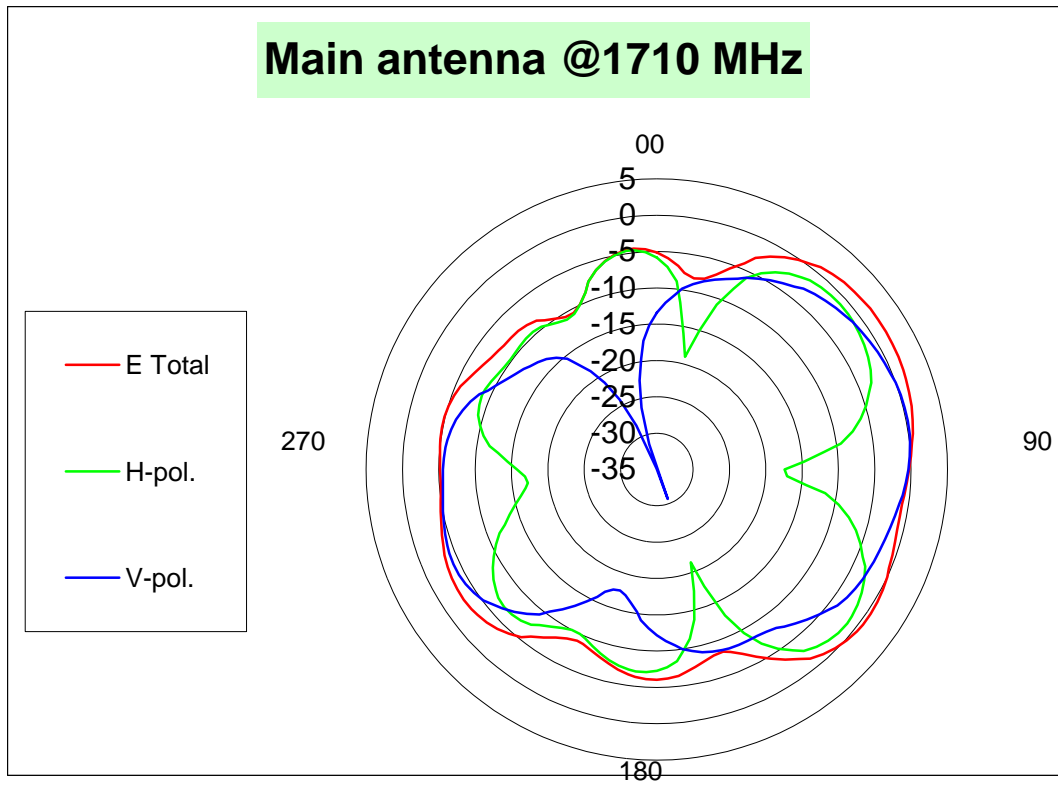
	H-pol	V pol
Peak Gain	-4.61	-5.76

Main WWAN Antenna (960MHz)



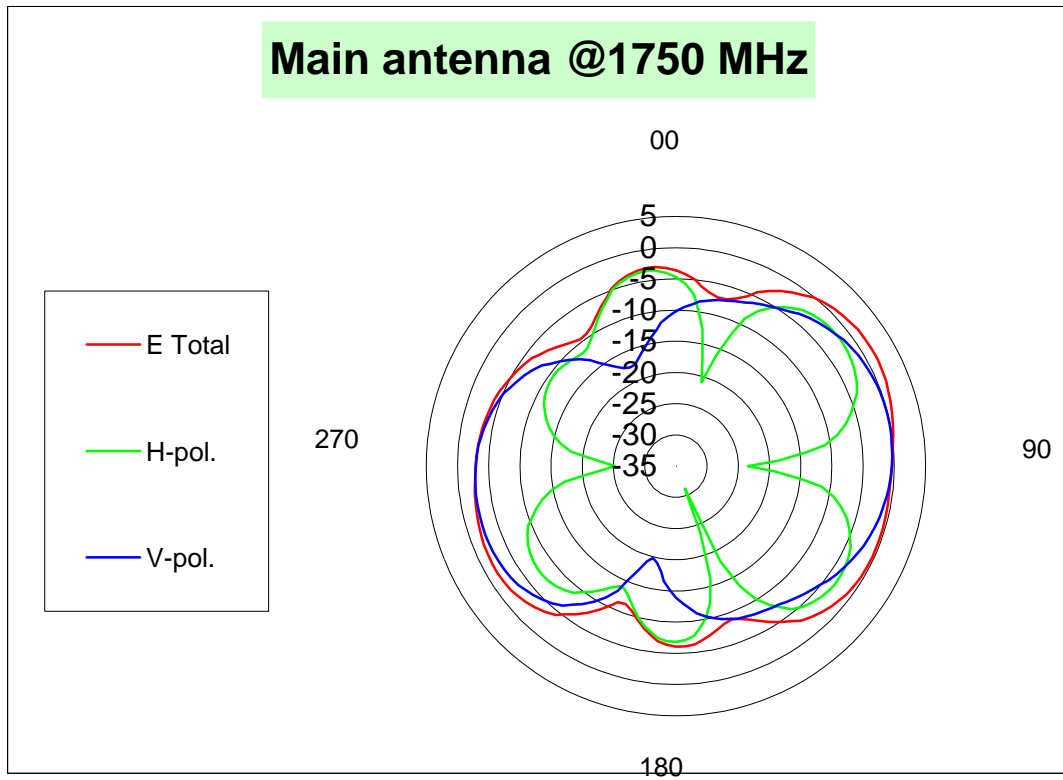
	H-pol	V pol
Peak Gain	-3.28	-6.30

Main WWAN Antenna (1710MHz)



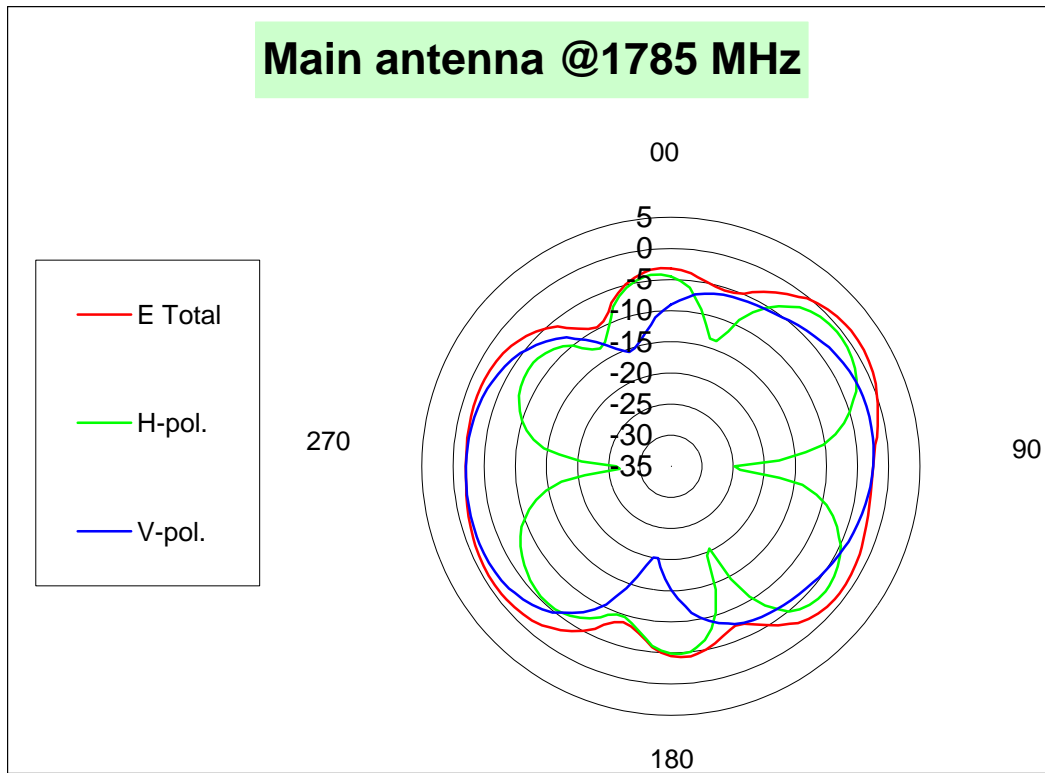
	H-pol	V pol
Peak Gain	-1.05	0.19

Main WWAN Antenna (1750MHz)



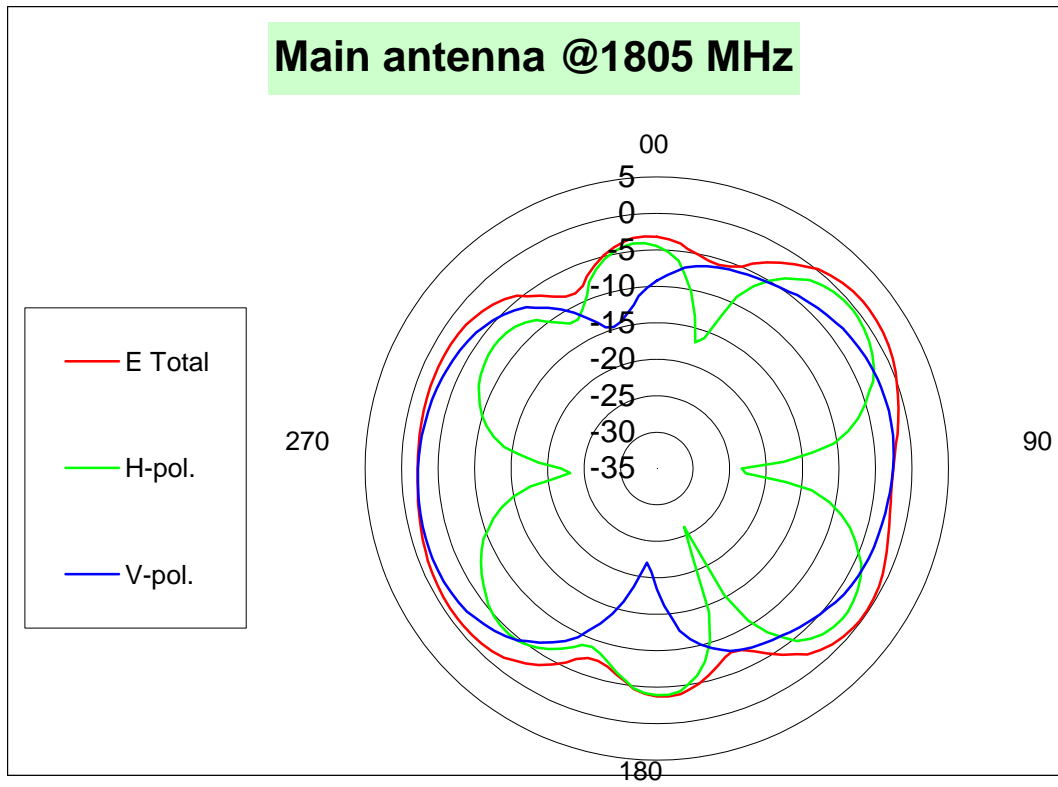
	H-pol	V pol
Peak Gain	-1.73	-0.11

Main WWAN Antenna (1785MHz)



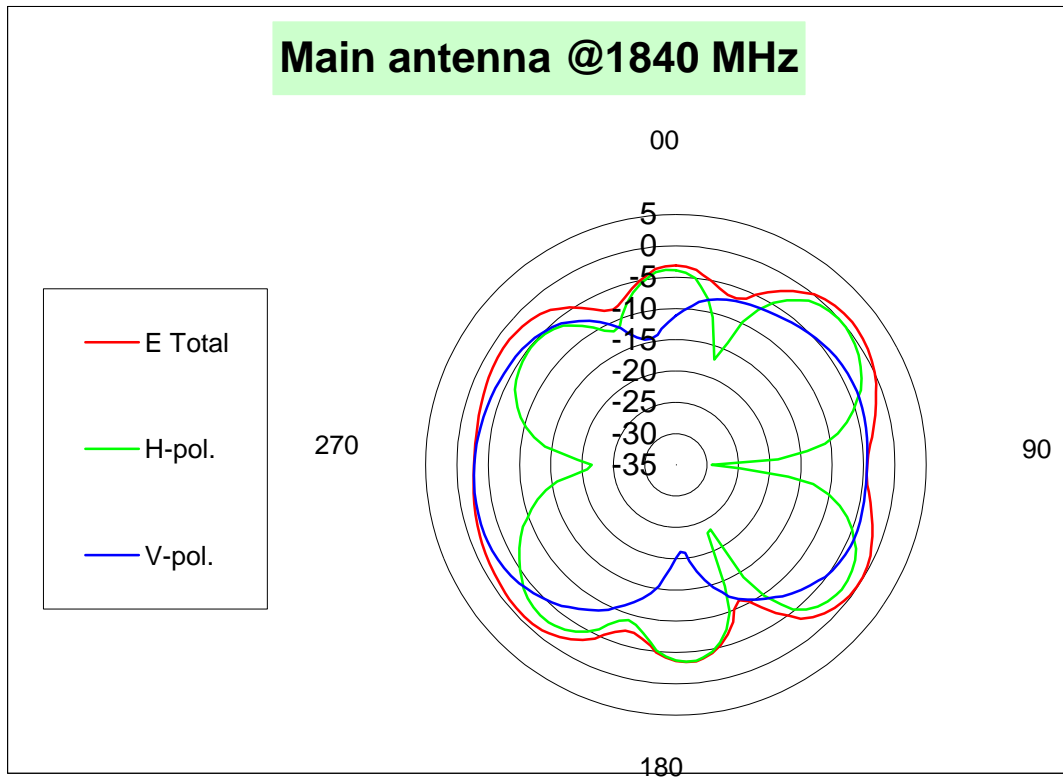
	H-pol	V pol
Peak Gain	-0.68	-1.86

Main WWAN Antenna (1805MHz)



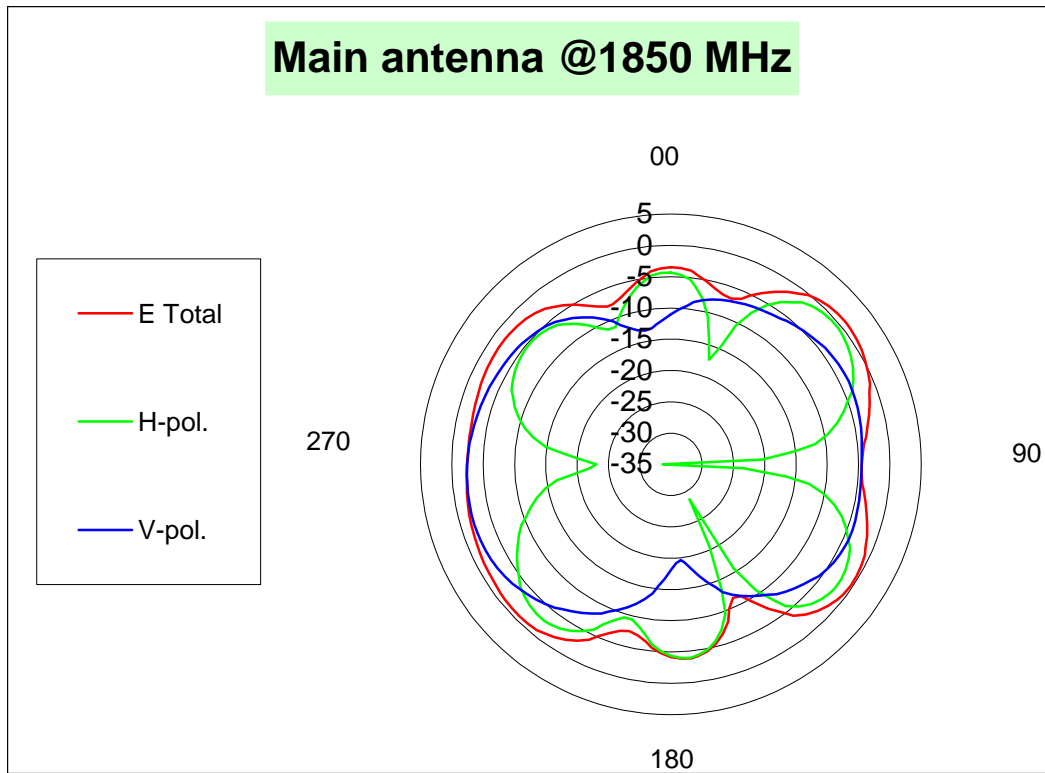
	H-pol	V pol
Peak Gain	-0.42	-1.87

Main WWAN Antenna (1840MHz)



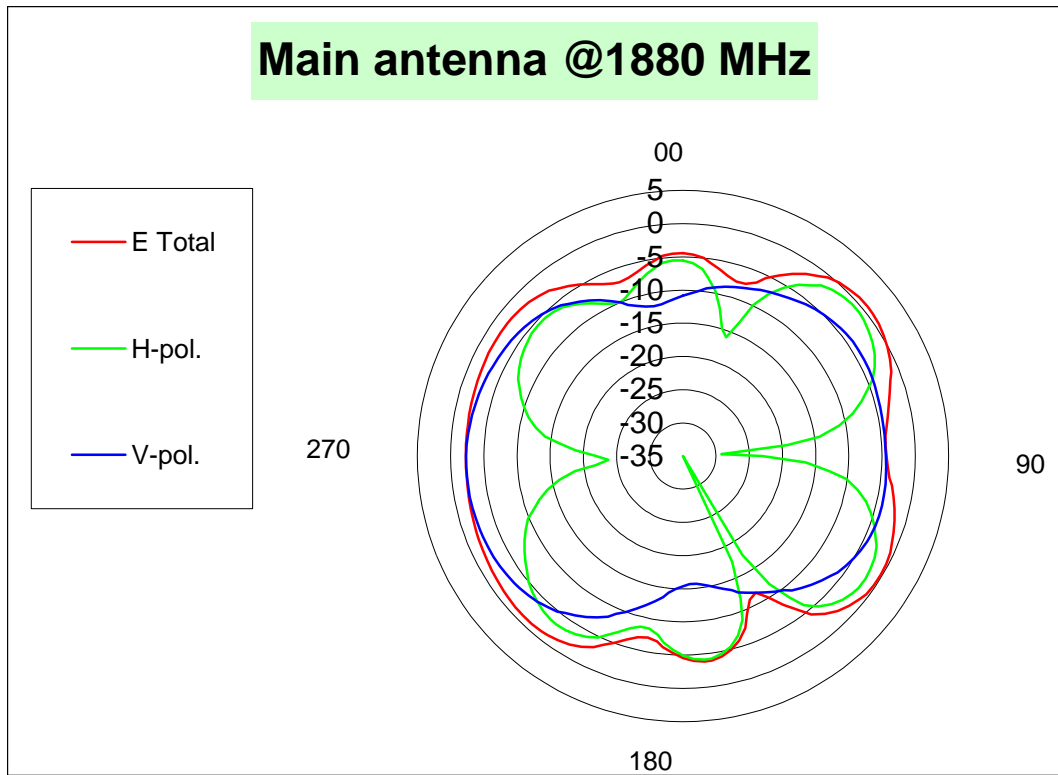
	H-pol	V pol
Peak Gain	-0.07	-2.44

Main WWAN Antenna (1850MHz)



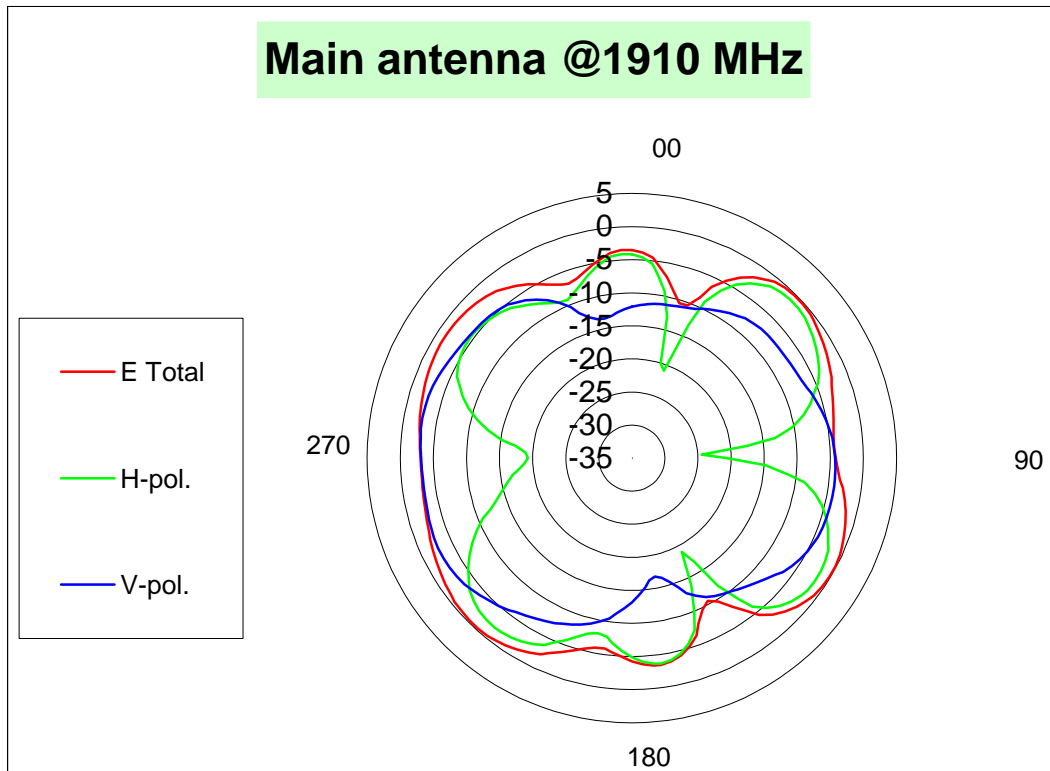
	H-pol	V pol
Peak Gain	-0.52	-2.17

Main WWAN Antenna (1880MHz)



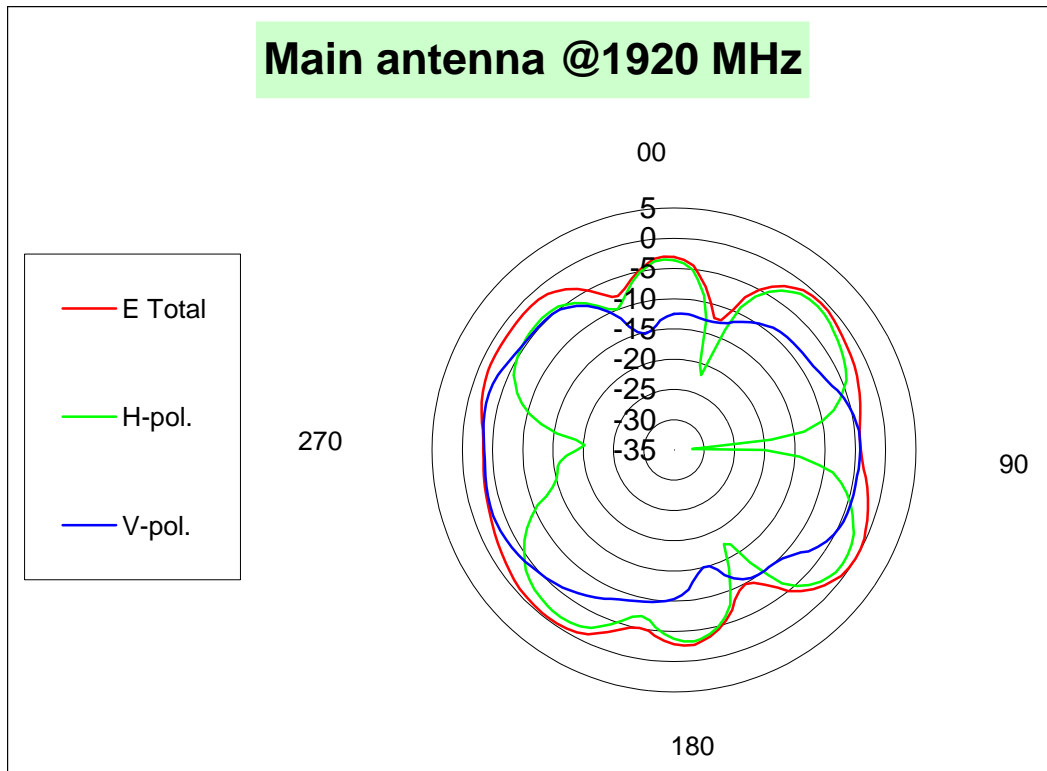
	H-pol	V pol
Peak Gain	-0.78	-2.31

Main WWAN Antenna (1910MHz)



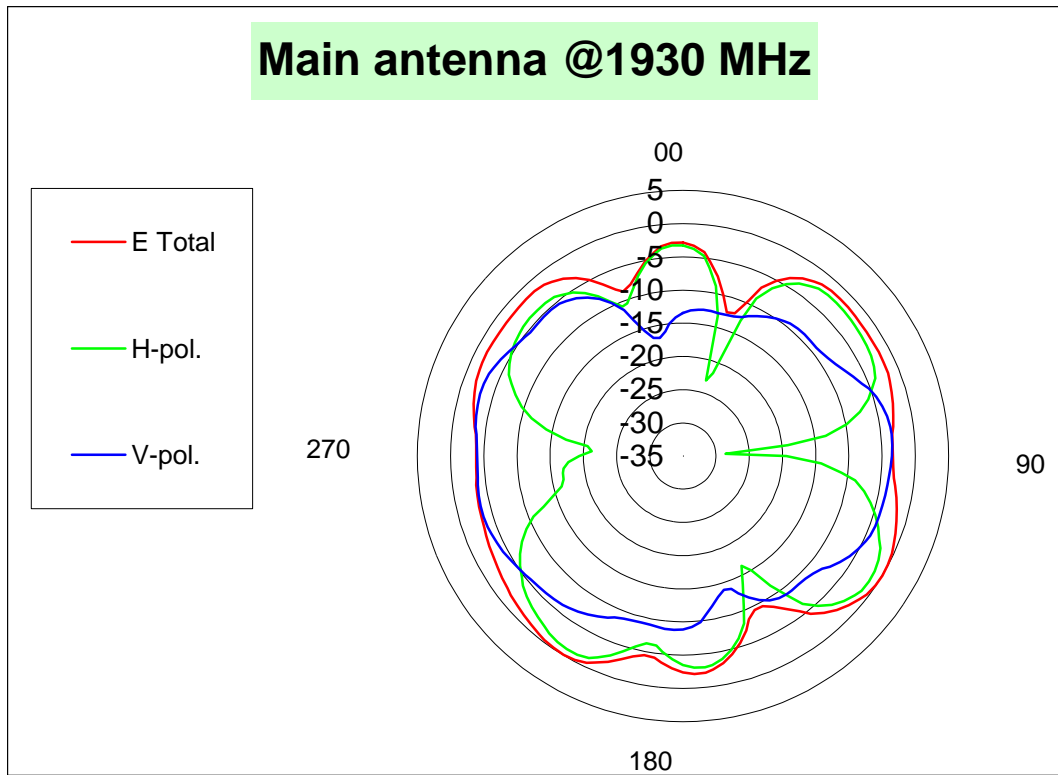
	H-pol	V pol
Peak Gain	-1.13	-2.75

Main WWAN Antenna (1920MHz)



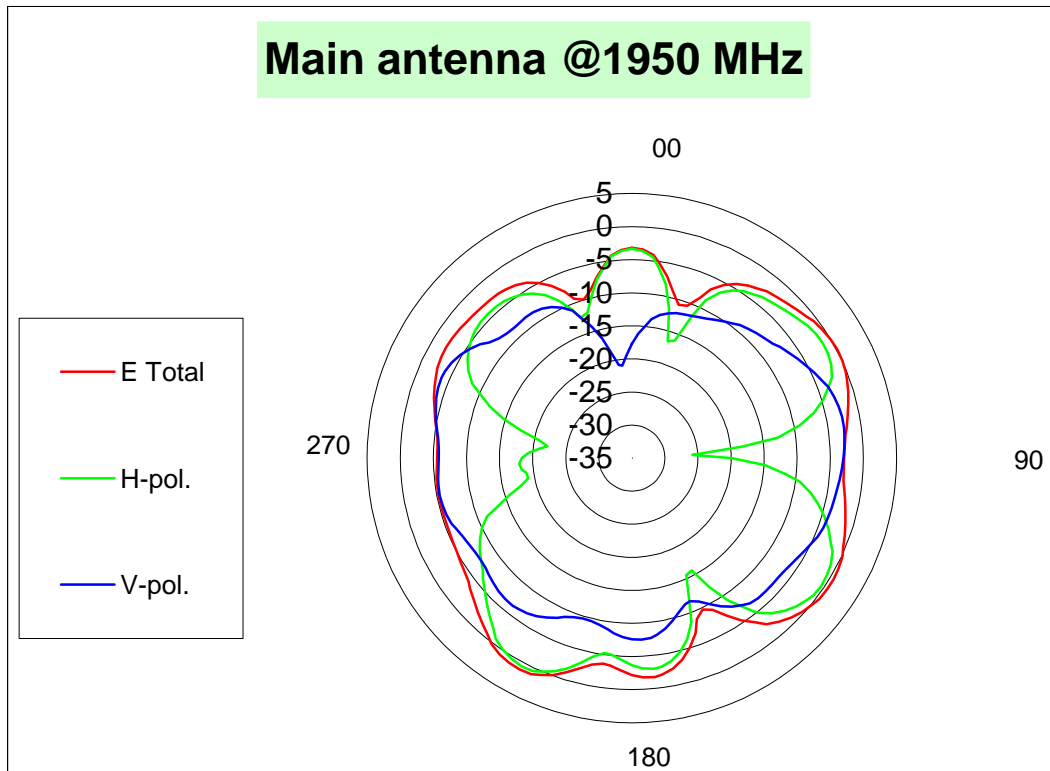
	H-pol	V pol
Peak Gain	-1.33	-3.00

Main WWAN Antenna (1930MHz)



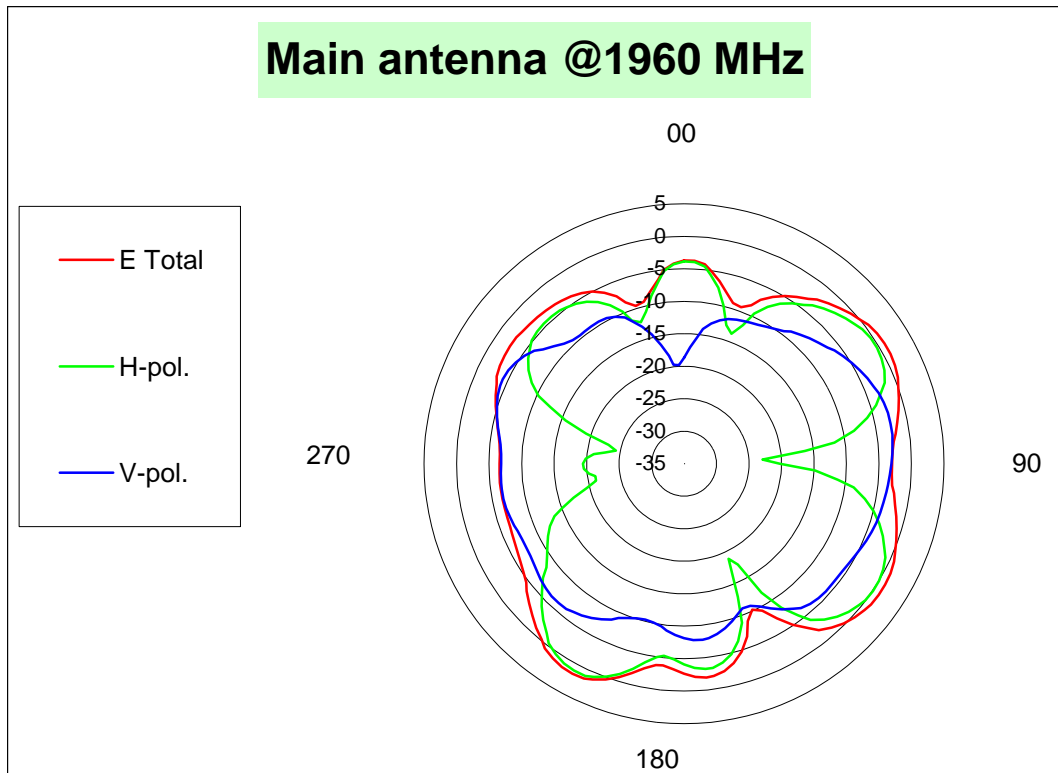
	H-pol	V pol
Peak Gain	-1.09	-3.05

Main WWAN Antenna (1950MHz)



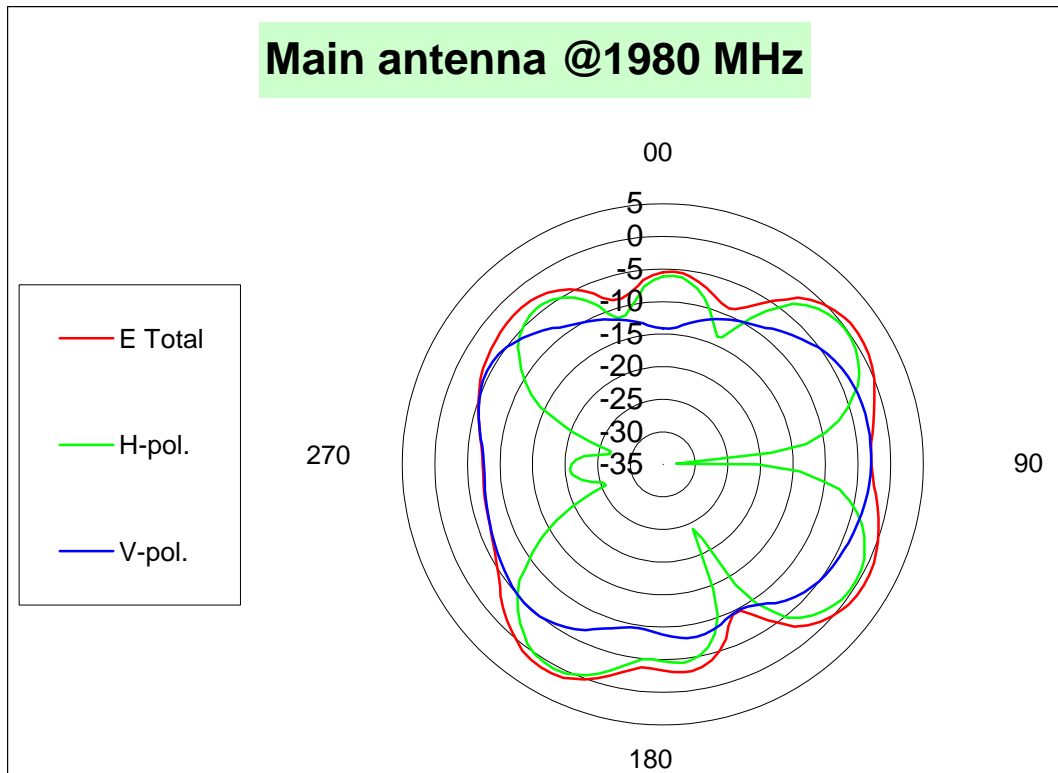
	H-pol	V pol
Peak Gain	0.59	-2.60

Main WWAN Antenna (1960MHz)



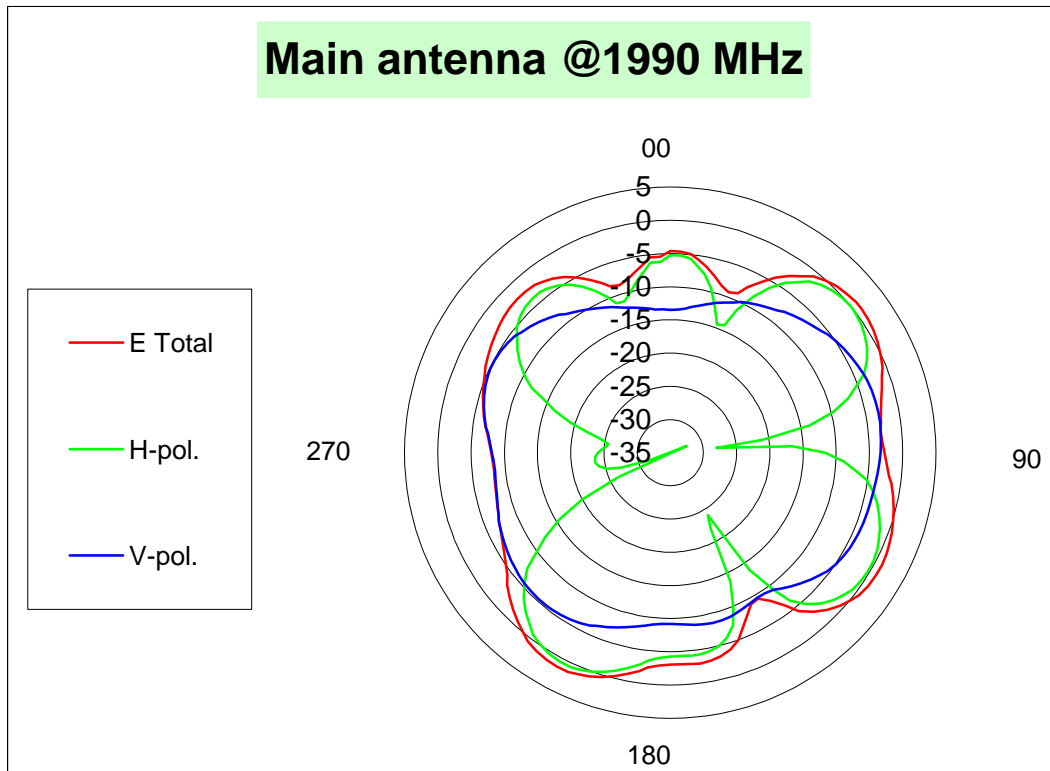
	H-pol	V pol
Peak Gain	1.08	-2.62

Main WWAN Antenna (1980MHz)



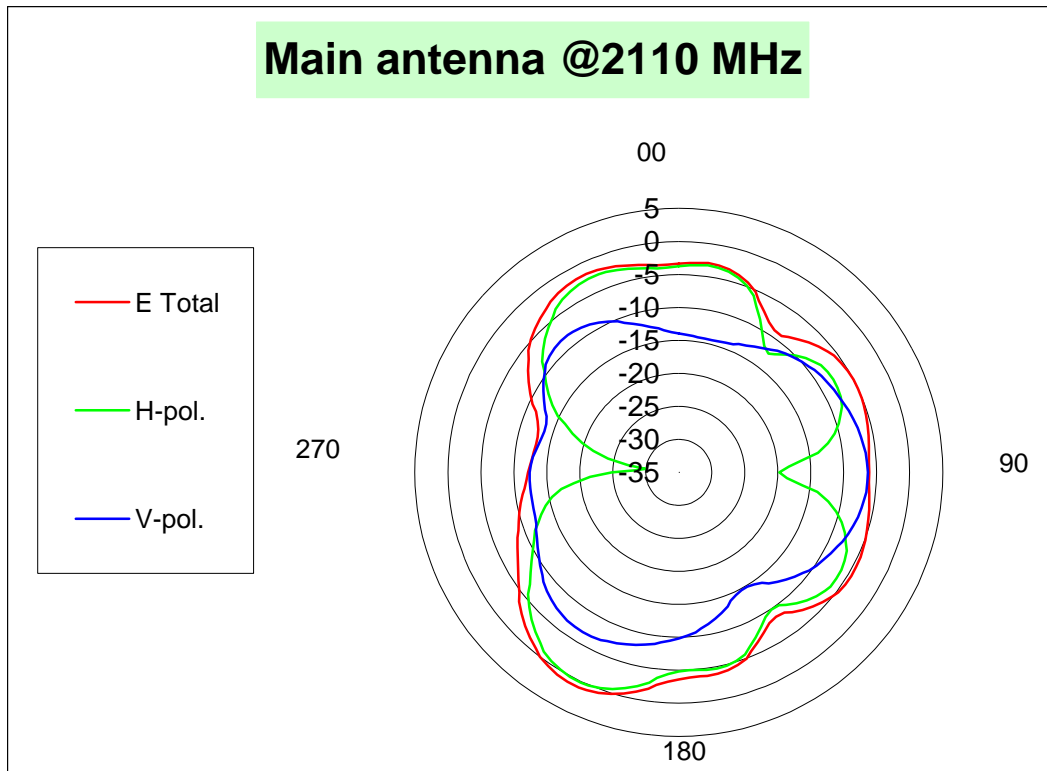
	H-pol	V pol
Peak Gain	0.55	-2.93

Main WWAN Antenna (1990MHz)



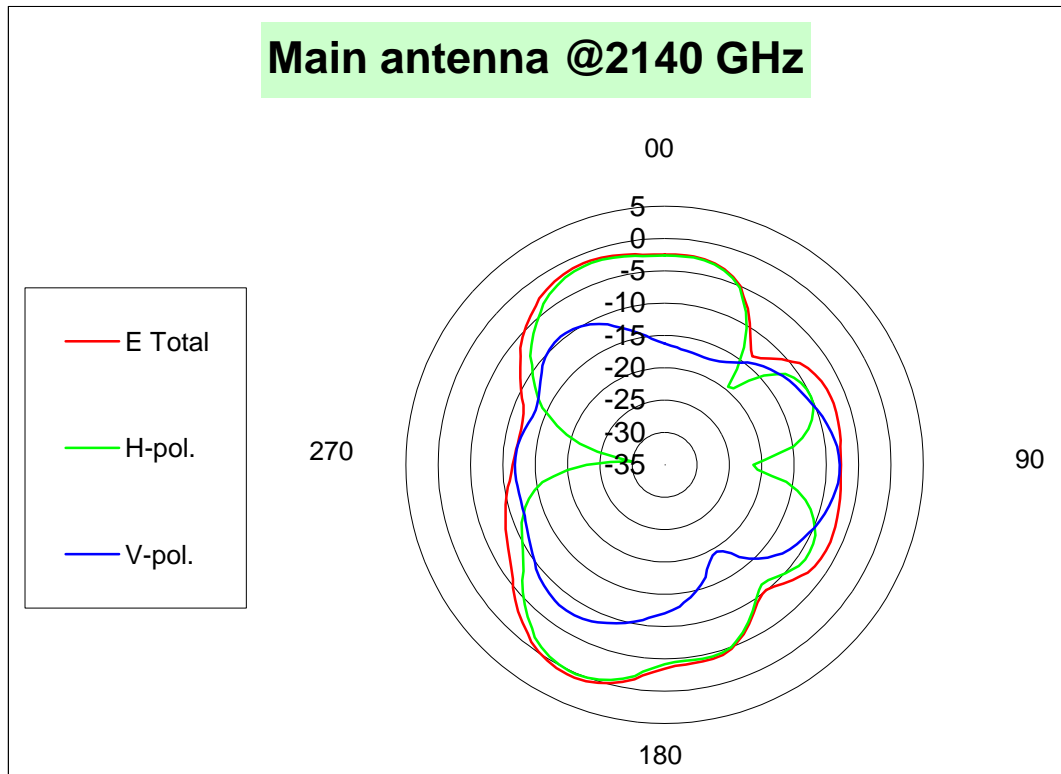
	H-pol	V pol
Peak Gain	0.60	-3.08

Main WWAN Antenna (2110MHz)



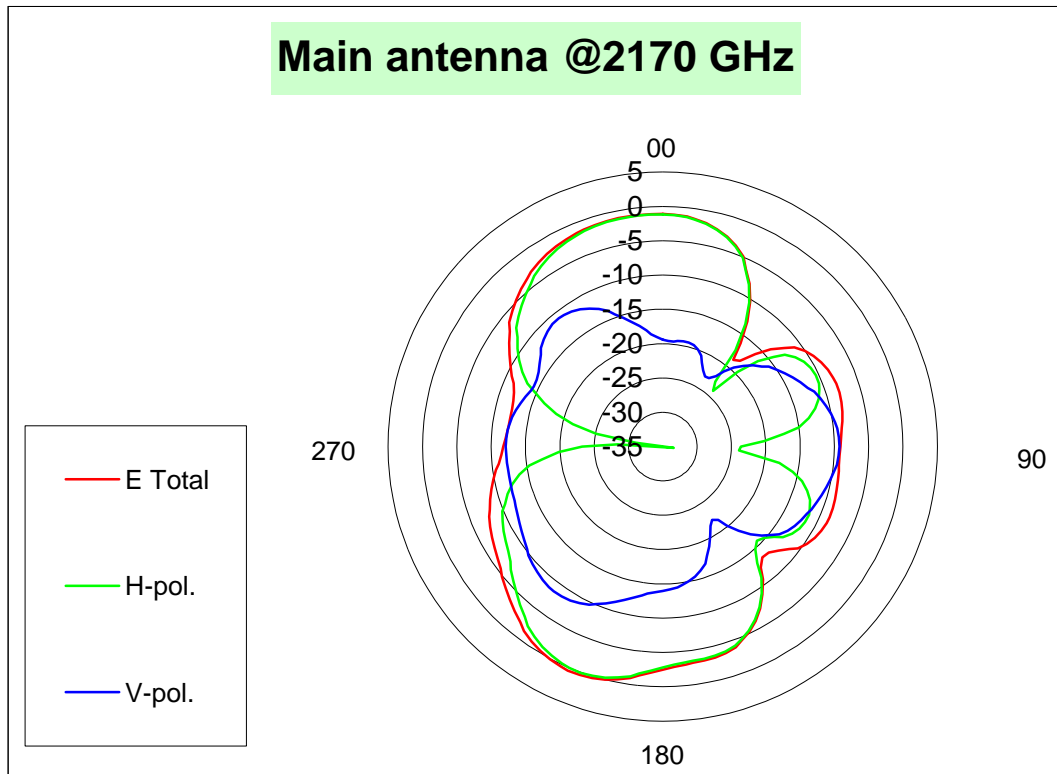
	H-pol	V pol
Peak Gain	0.17	-6.37

Main WWAN Antenna (2140MHz)



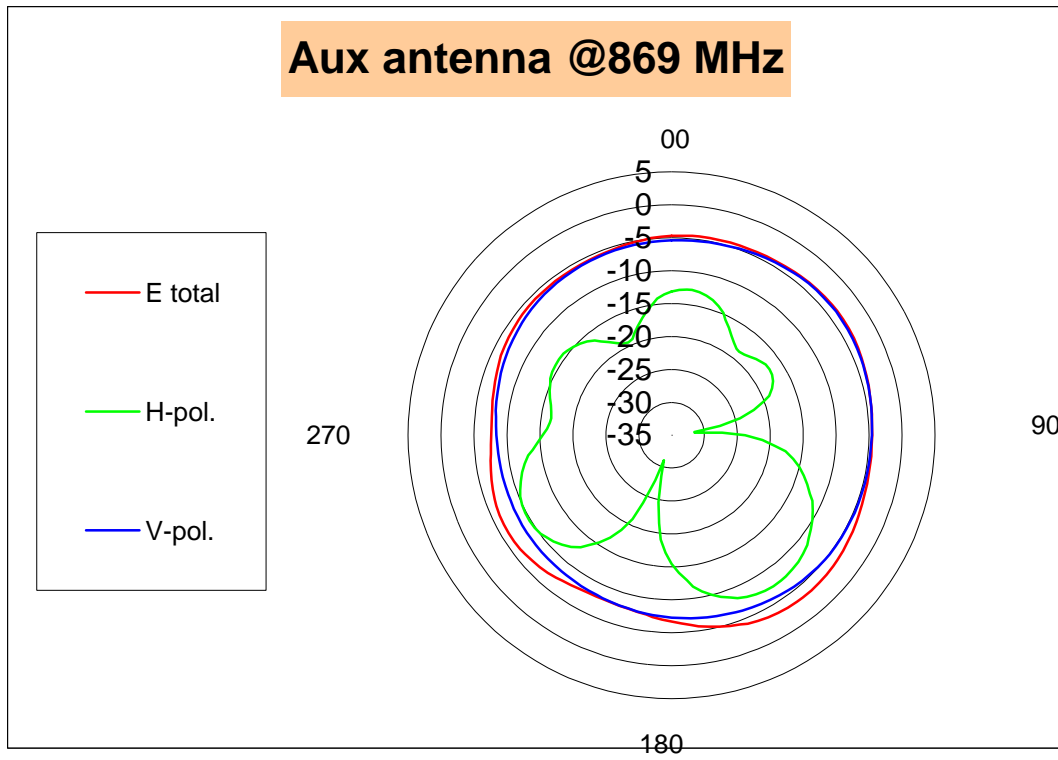
	H-pol	V pol
Peak Gain	0.19	-7.84

Main WWAN Antenna (2170MHz)



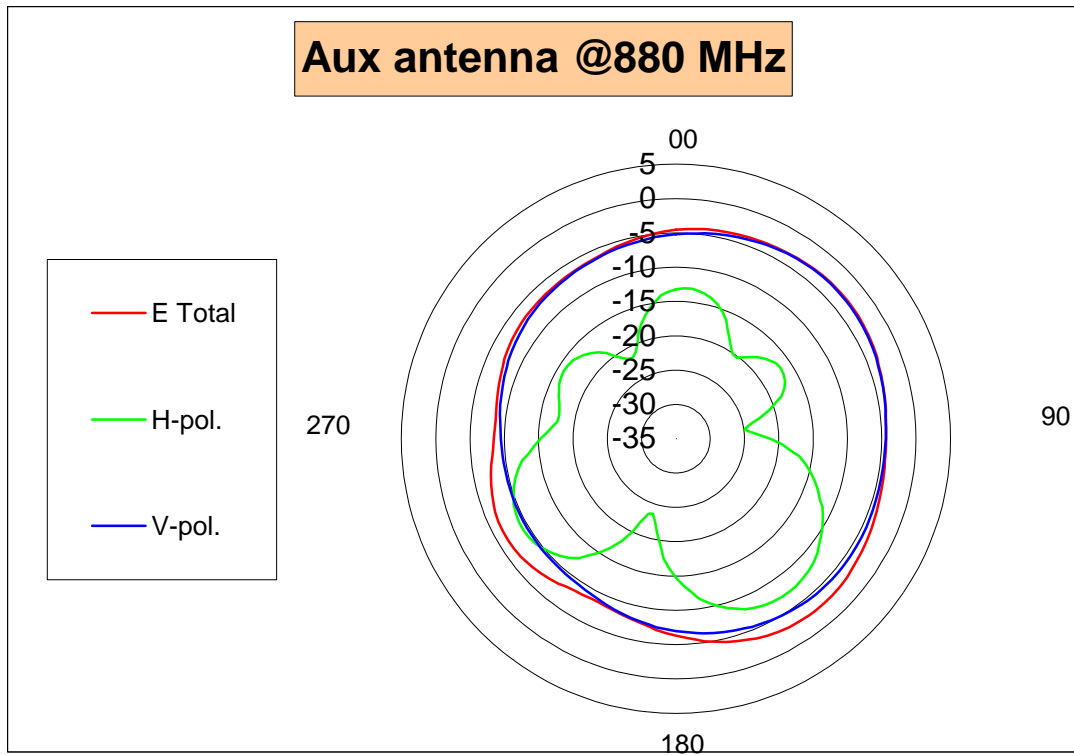
	H-pol	V pol
Peak Gain	0.05	-8.62

Aux WWAN Antenna (869MHz)



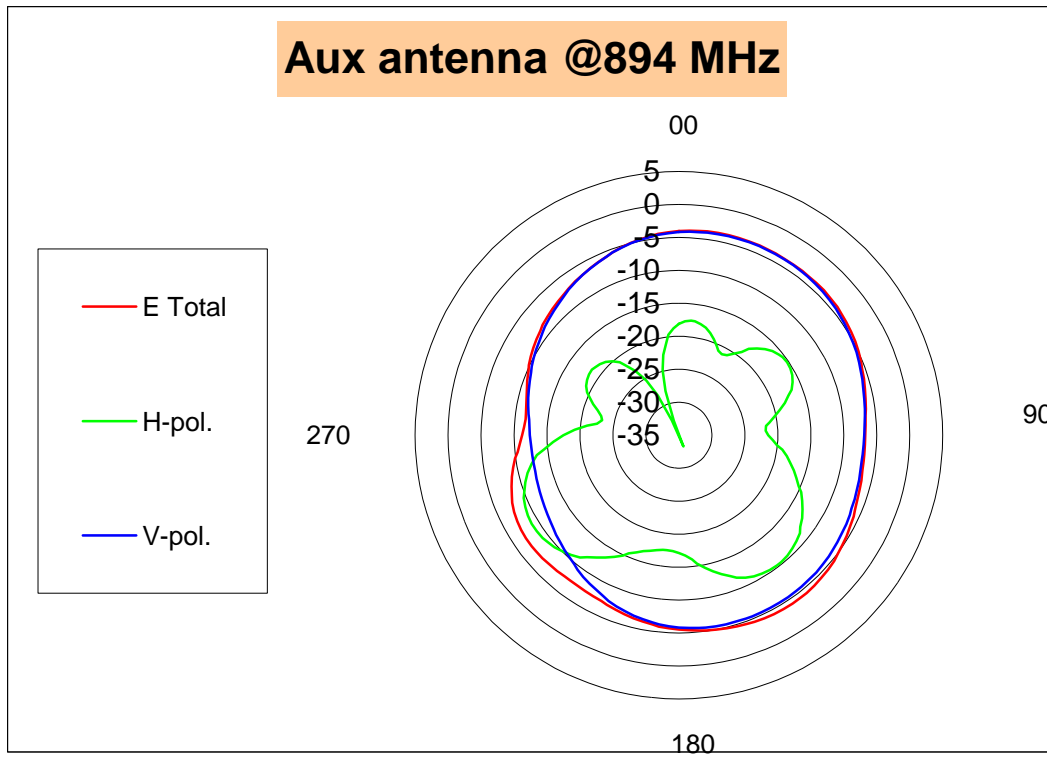
	H-pol	V pol
Peak Gain	-7.34	-3.77

Aux WWAN Antenna (880MHz)



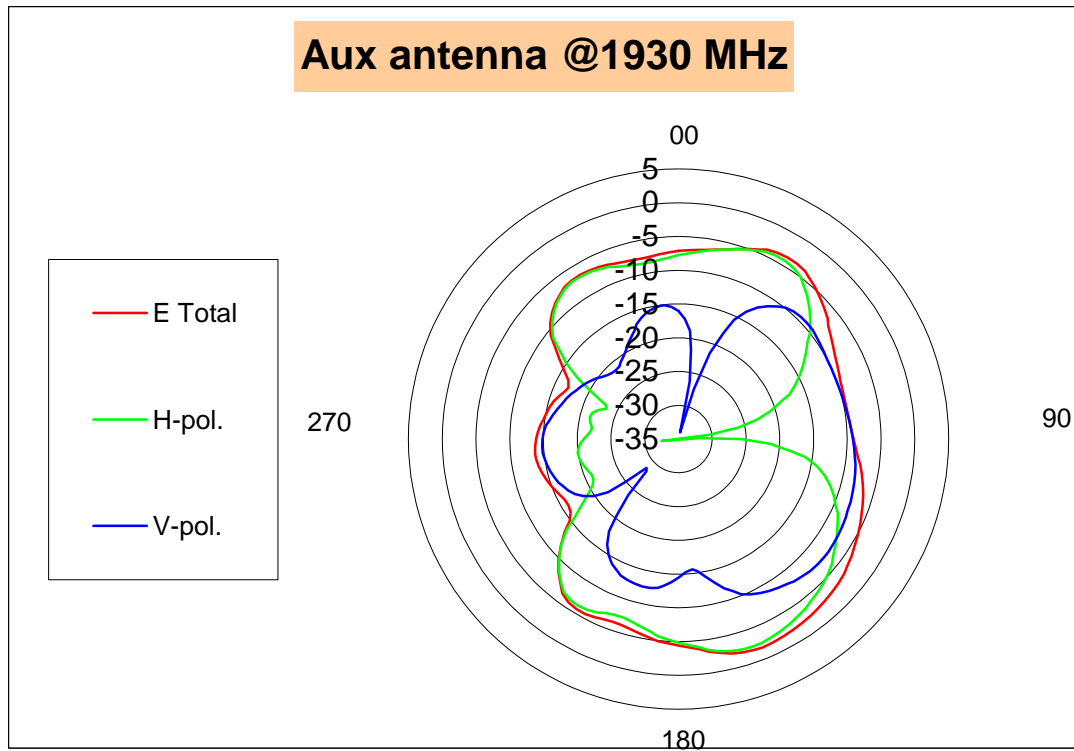
	H-pol	V pol
Peak Gain	-7.25	-3.09

Aux WWAN Antenna (894MHz)



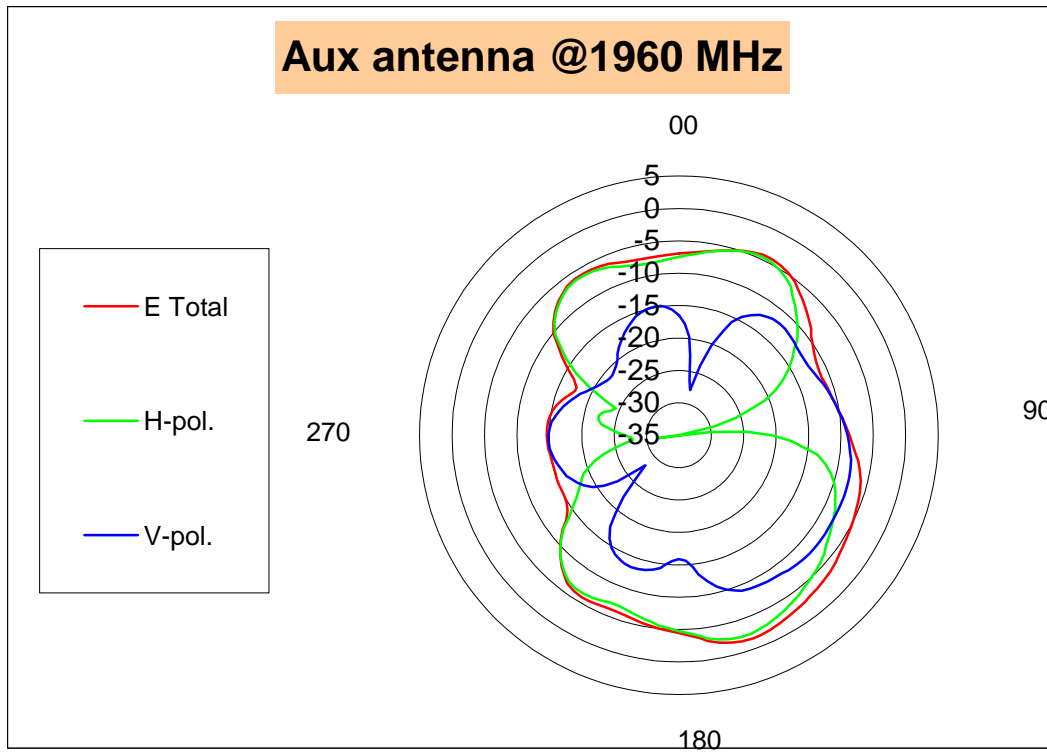
	H-pol	V pol
Peak Gain	-8.95	-3.86

Aux WWAN Antenna (1930MHz)



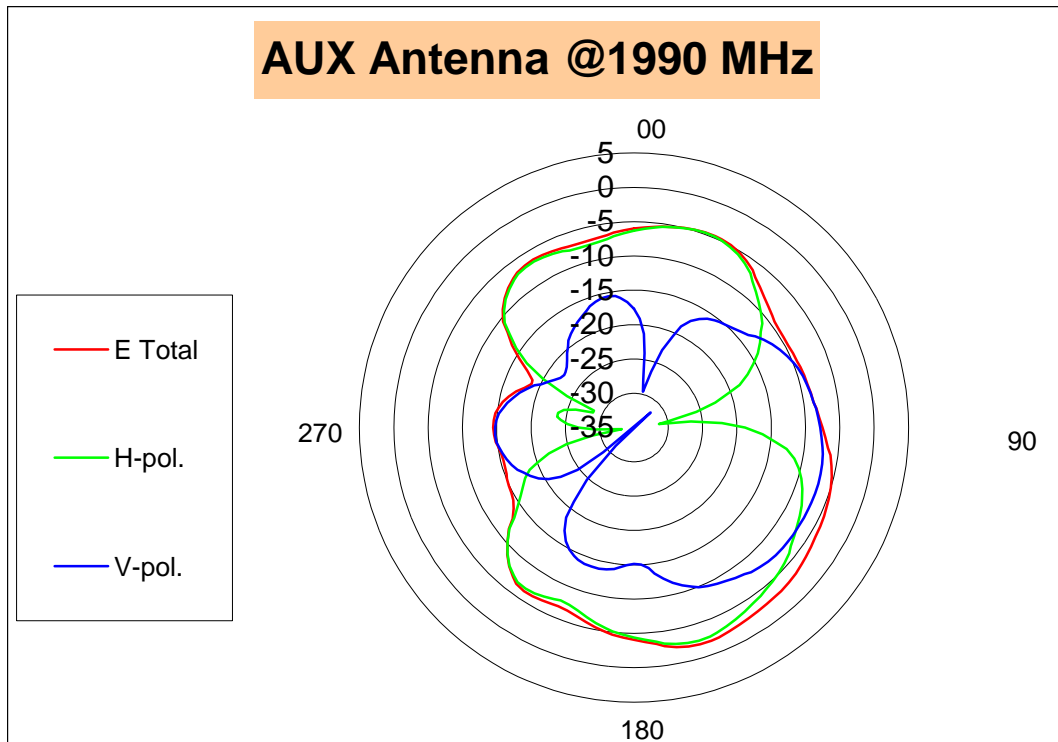
	H-pol	V pol
Peak Gain	-2.37	-7.23

Aux WWAN Antenna (1960MHz)



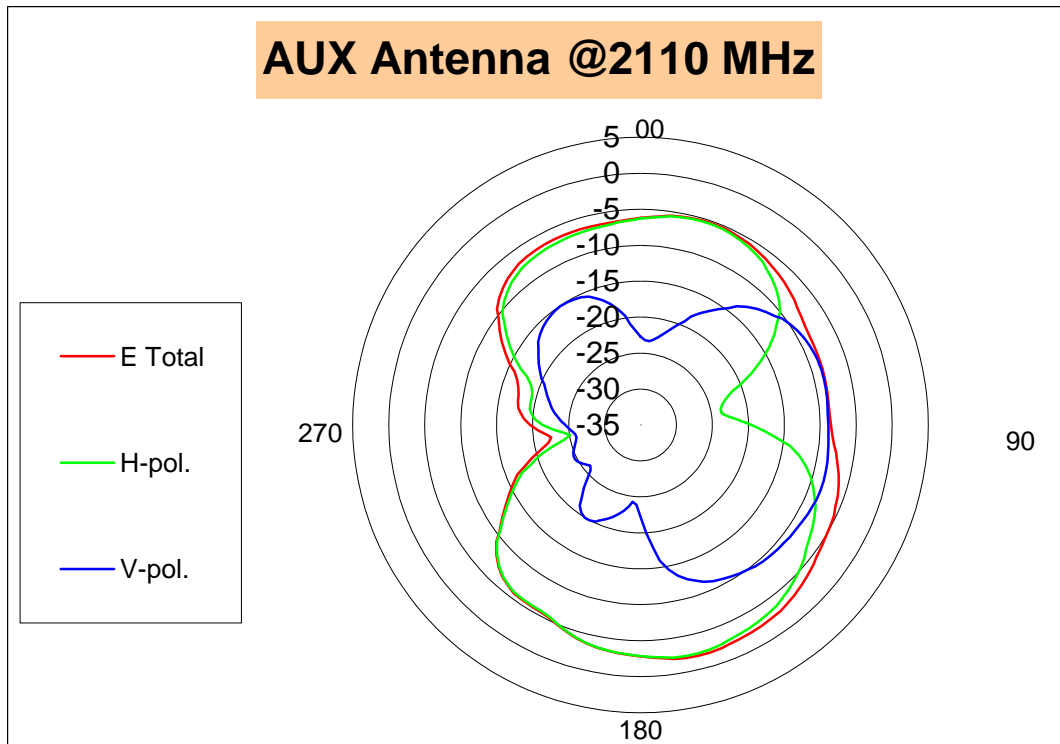
	H-pol	V pol
Peak Gain	-2.41	-7.77

Aux WWAN Antenna (1990MHz)



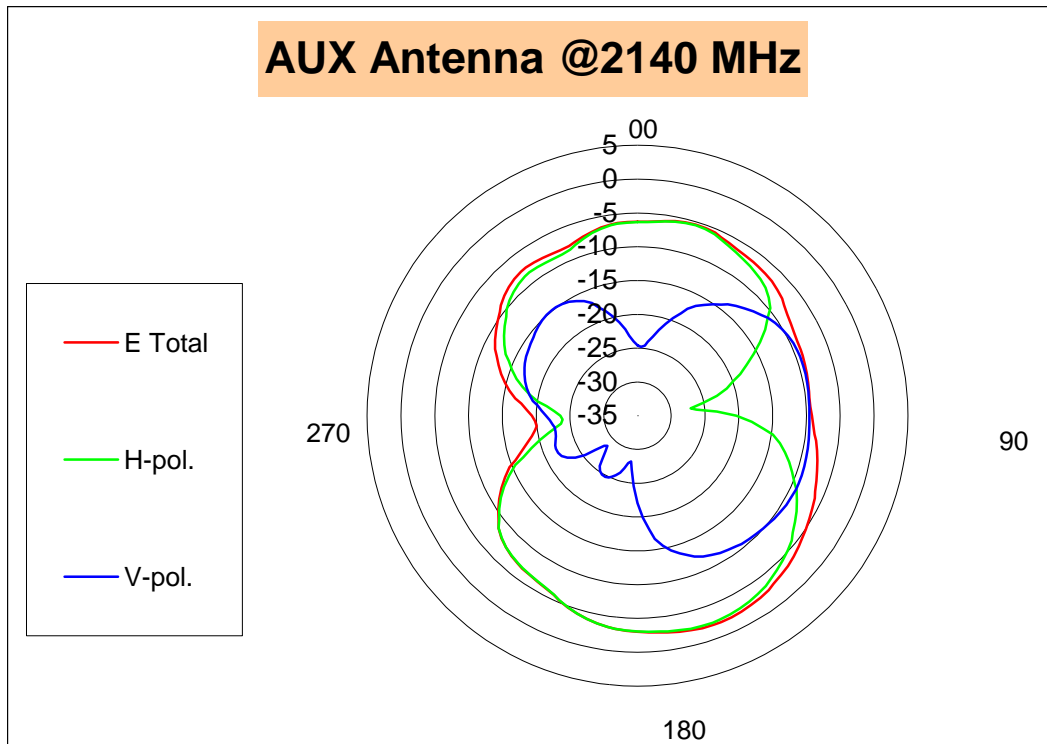
	H-pol	V pol
Peak Gain	-2.56	-6.93

Aux WWAN Antenna (2110MHz)



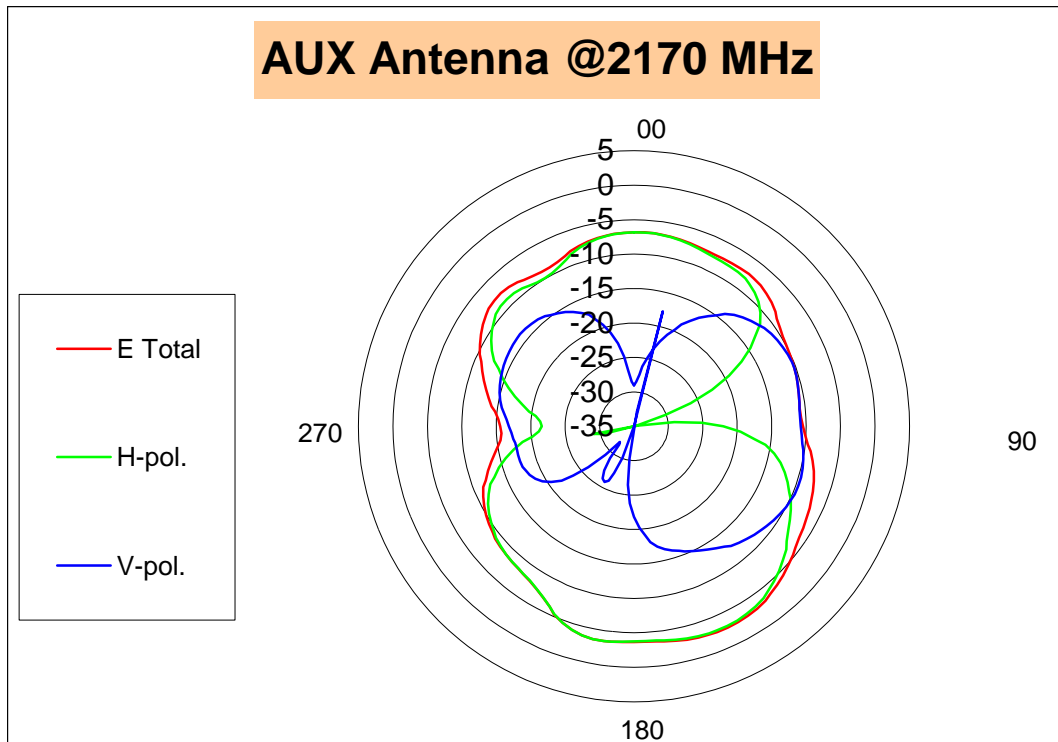
	H-pol	V pol
Peak Gain	-2.24	-8.40

Aux WWAN Antenna (2140MHz)



	H-pol	V pol
Peak Gain	-2.44	-9.14

Aux WWAN Antenna (2170MHz)



	H-pol	V pol
Peak Gain	-3.02	-9.62