

T2 Antenna Regulatory Information

Description : Triple-band Antenna(Main+Aux)
Quanta Computer Inc. P/N: DQ671500100

Wistron NeWeb P/N: DQ671500100

Wistron NeWeb Corporation

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Science-base Industrial Park,
Hsinchu 300,Taiwan, R.O.C.
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Provided by Wistron NeWeb Corp.	Reviewed by Wistron NeWeb Corp.
<i>Patrick Lee</i>	<i>Weili Cheng</i>

Antenna Specifications

Antenna Type (Material, Technology)	Technology => PIFA, Material =>Metal sheet (For both main and aux antenna)
Antenna Model Number	T2 / ED7-Q / DQ671500100
Operating Frequency Range(s)	2.4 ~ 2.4835GHz / 4.9 ~ 5.35GHz / 5.47 ~ 5.875GHz
Peak Gain (802.11b/g / 2.4GHz Band) (dBi)	Main antenna: <u>0.97dBi</u> , Aux antenna: <u>0dBi</u>
Peak Gain (802.11a / 5GHz Band) (dBi)	Main antenna: <u>0.01dBi</u> , Aux antenna: <u>-0.16dBi</u>
Radio Connector Type	IPEX MHF 37type connector, HRS U.FL-LP
Mid-Line Connector Type (If Applicable)	NA

Note: Peak Gain should 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)	NA	NA	633	NA	NA	783
Loss (Including Connectors) (dB) (2.4GHz / 5GHz)	NA	NA	1.35/2.4	NA	NA	1.91/3.3
Description (Color, Diameter, Manufacturer)	Color: white Diameter: Φ1.37mm Manufacturer: Junkosha, Kurabe or equivalent cable			Color: black Diameter: Φ1.37mm Manufacturer: Junkosha, Kurabe or equivalent cable		

Note: For single cable assembly (no mid-line connector), use the 'Total' column for each cable length and list N/A in the 'LCD' and 'Base' fields

Cable Loss should be reported for the total cable assembly (for both Main and Aux antennas)

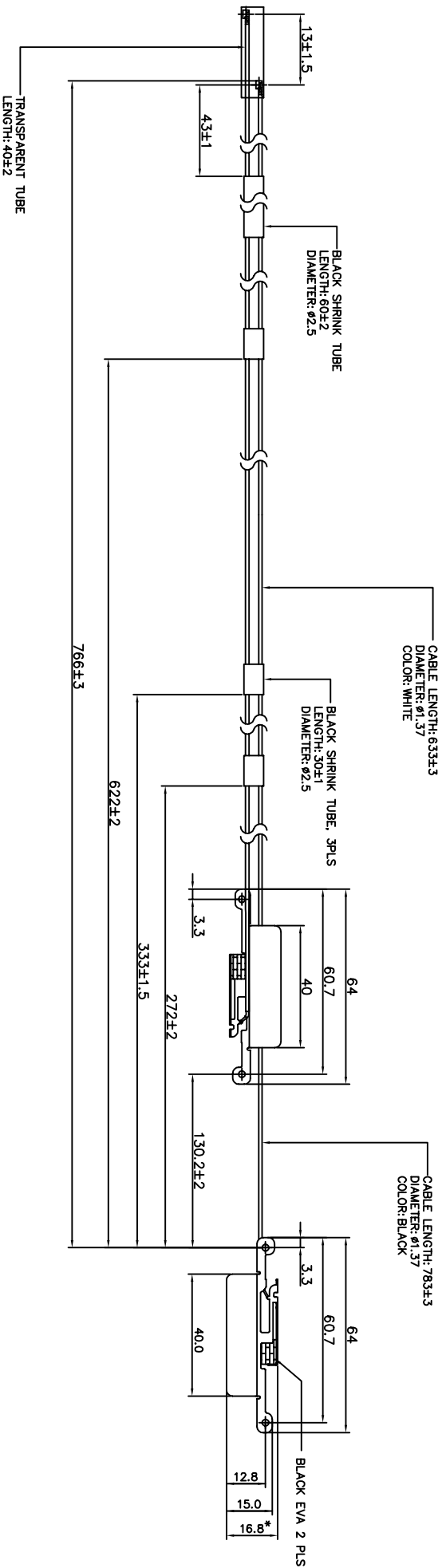
- **Peak Gain**

Frequency	Main antenna Max value (dBi)			Aux antenna Max value (dBi)			Pass/ NG
	H-pol	V pol	Total	H-pol	V pol	Total	
2400(MHz)	-0.28	-1.47	1.34	-2.04	-2.39	0.04	PASS
2450(MHz)	0.97	0.36	2.49	-0.56	-2.42	0.37	PASS
2500(MHz)	0.38	-1	1.83	0.00	-2.03	1.13	PASS
4900(MHz)	-0.64	-2.19	0.27	-1.01	-3.23	-0.18	PASS
5125(MHz)	-1.01	-1.93	-0.37	-1.15	-3.08	0.27	PASS
5350(MHz)	-1.06	-1.42	-0.16	-0.48	-1.06	1.35	PASS
5470(MHz)	0.01	-0.09	0.71	-0.51	-1.66	0.13	PASS
5672.5(MHz)	-1.07	-0.98	0.74	-0.98	-0.84	0.34	PASS
5875(MHz)	-0.44	-0.84	0.96	-1.15	-0.16	1.23	PASS

- **Antenna Dimensions (Mechanical drawings)**
(See Next Page)

PART NUMBER BLOCK	
PART NUMBER	REV

REVISIONS		
ZONE	REV	DESCRIPTION
DATE	APPROVED	



D

C

B

A

1

2

3

4

1

2

3

4

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN PLACE DECIMALS			
INTEGRAL DIMENSIONS ±0.2	FINISH: NA	THIRD ANGLE PROJECTION	
2 PLACE DECIMALS		DRAWN: ENGR	
		CHECKED: PATRICK LEE	
		DATE: 10/15/04	
		SCALE: 1/1	
		SHEET: 1 OF 1	
Wisaton 威盛科技股份有限公司 Wisaton Network Corp. No. 101-1, Hsinchu Road, Hsinchu City, Taiwan, R.O.C. Tel: 886-3-5927790 Fax: 886-3-5927711			
OUTLINE: ED7-Q ANTENNA		SIZE: A2	REV: 0
DWG TITLE: OUTLINE, ED7-Q ANTENNA		DWG NO.: 57.ED715.001	REV: 0
APPLICATION: USED ON		NEXT ASSY: APPLICATION	

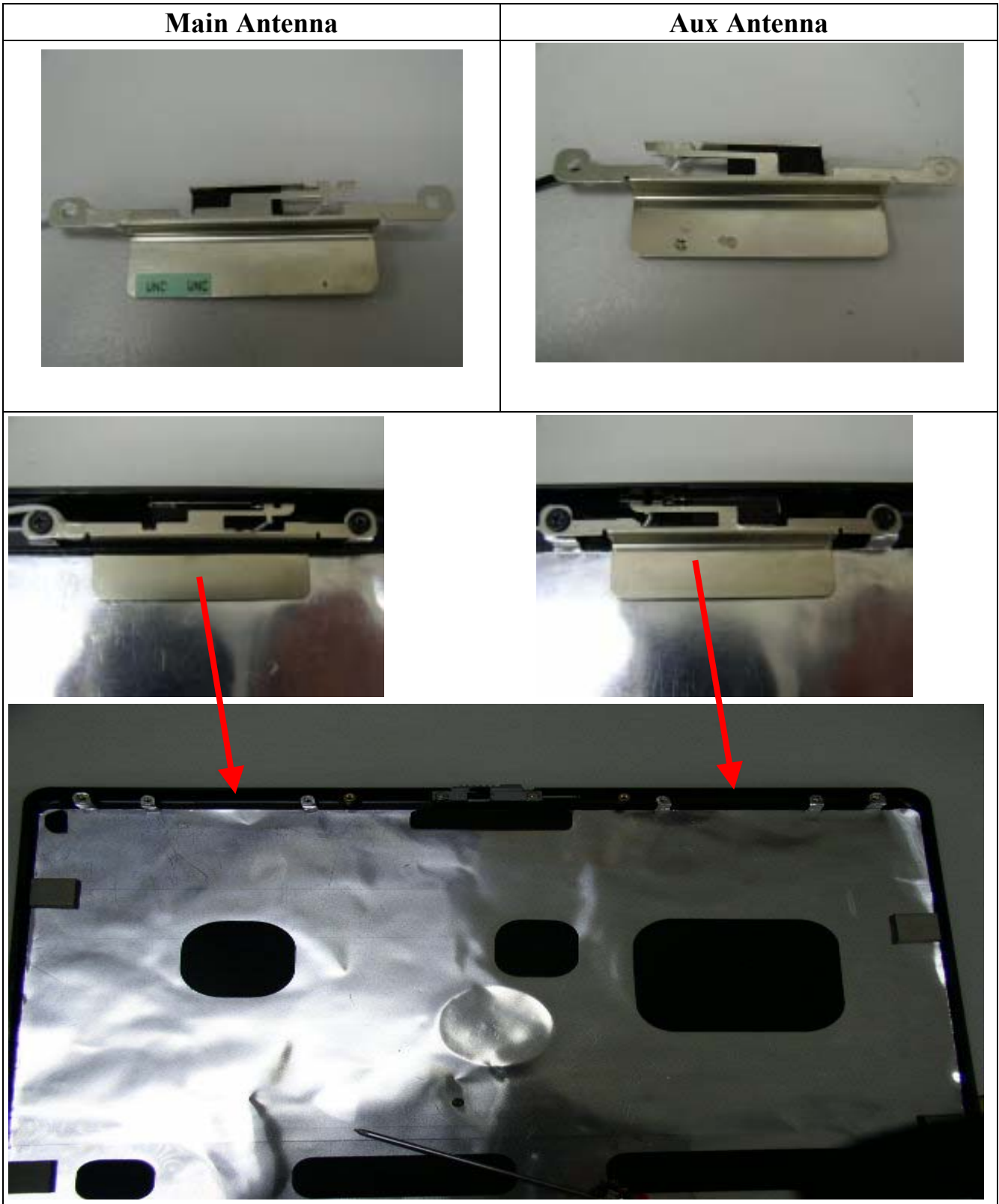
D

C

B

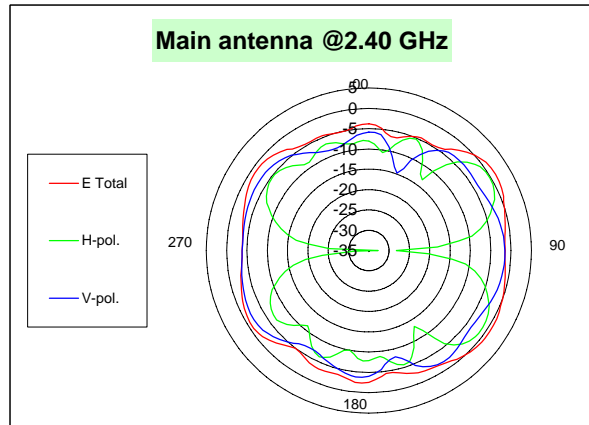
A

- Pictures of Antennas

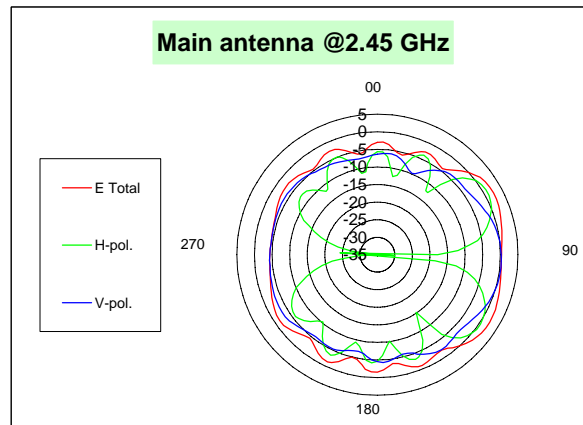


- Antenna Pattern

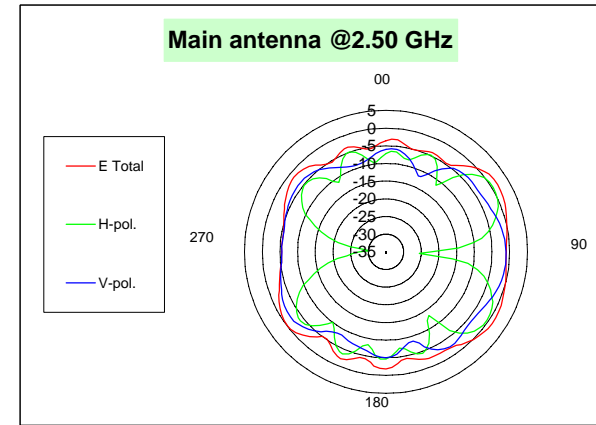
2G4 ISM (2.400 GHz - 2.4835 GHz) Antenna Radiation Patterns



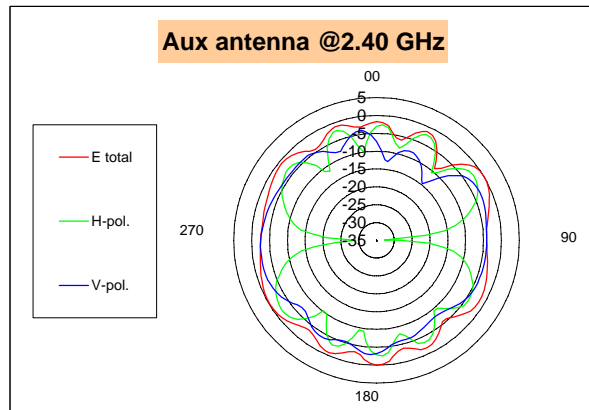
	Total	H-pol	V pol
Peak Gain	1.34	-0.28	-1.47



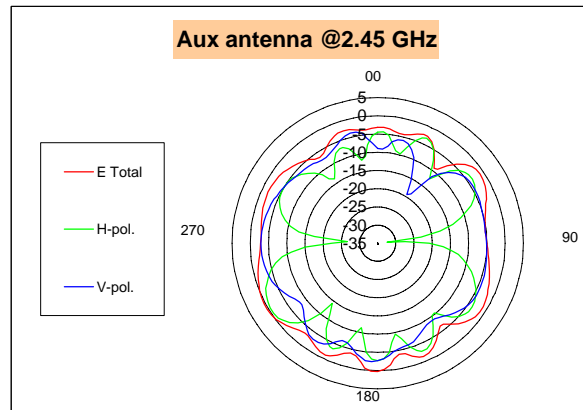
	Total	H-pol	V pol
Peak Gain	2.49	0.97	0.36



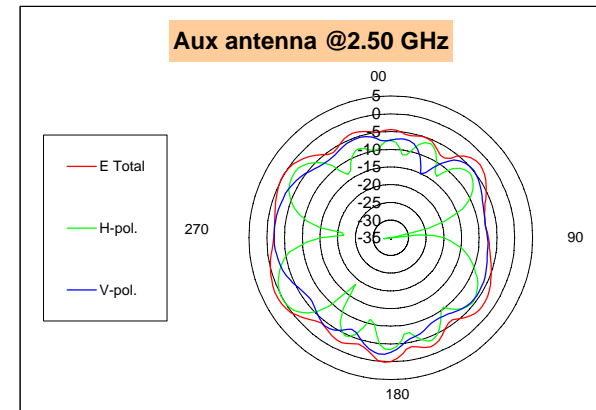
	Total	H-pol	V pol
Peak Gain	1.83	0.38	-1.00



	Total	H-pol	V pol
Peak Gain	0.04	-2.04	-2.39



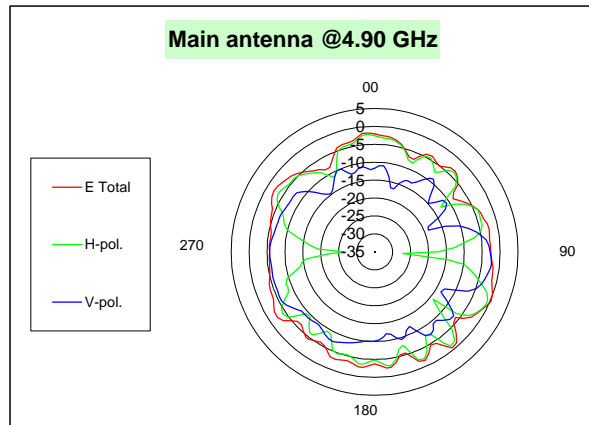
	Total	H-pol	V pol
Peak Gain	0.37	-0.56	-2.42



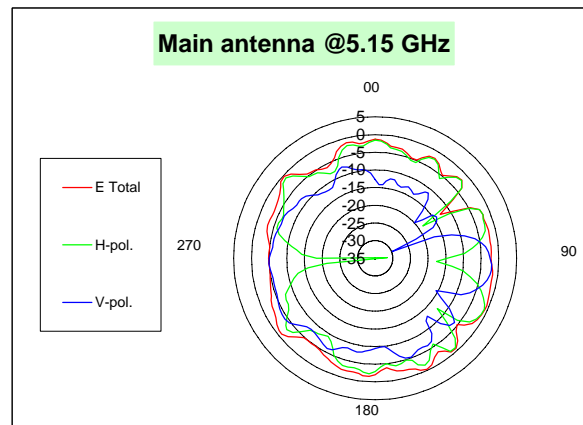
	Total	H-pol	V pol
Peak Gain	1.13	0.00	-2.03

Note: The outer circle approximately represents the 5 dBi gain circle. Each circle with 5 dBi difference (Max=5 dBi and Min=-35 dBi)

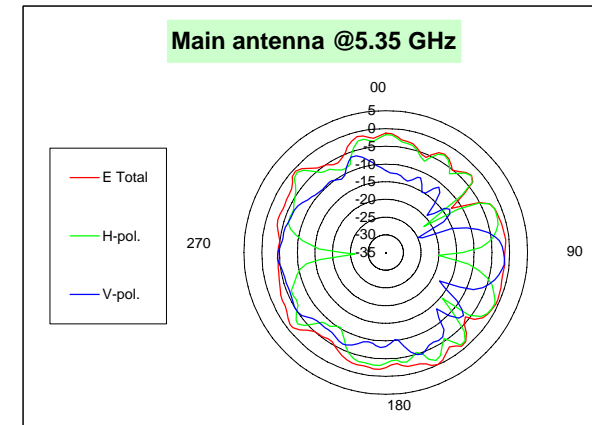
U-NII Band (4.90 GHz - 5.350 GHz) Antenna Radiation Patterns



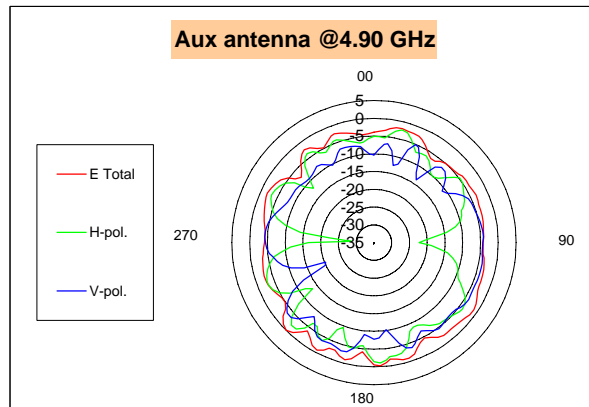
	Total	H-pol	V pol
Peak Gain	0.27	-0.64	-2.19



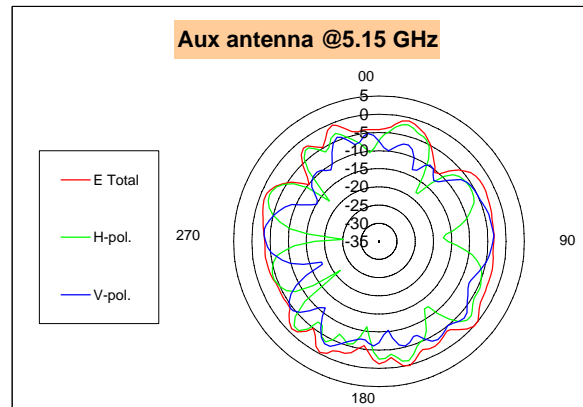
	Total	H-pol	V pol
Peak Gain	-0.37	-1.01	-1.93



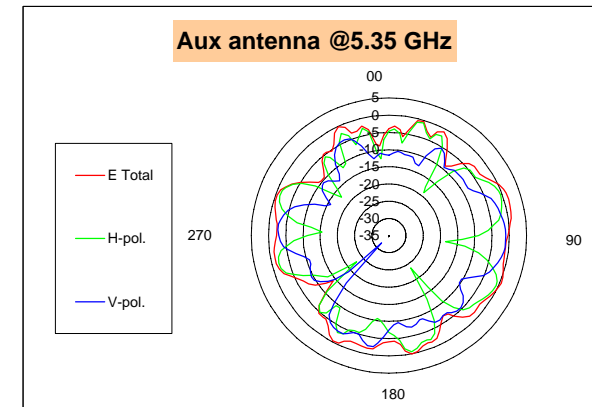
	Total	H-pol	V pol
Peak Gain	-0.16	-1.06	-1.42



	Total	H-pol	V pol
Peak Gain	-0.18	-1.01	-3.23



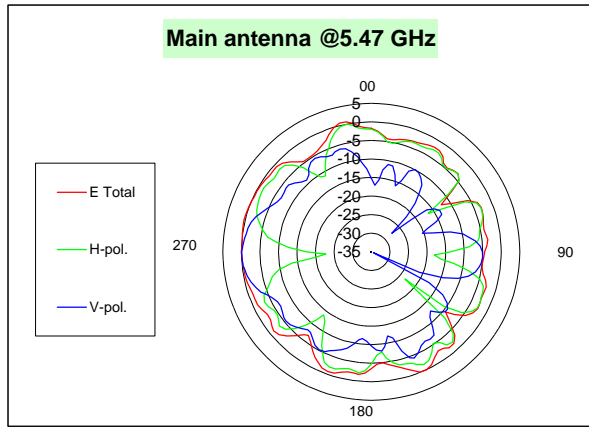
	Total	H-pol	V pol
Peak Gain	0.27	-1.15	-3.08



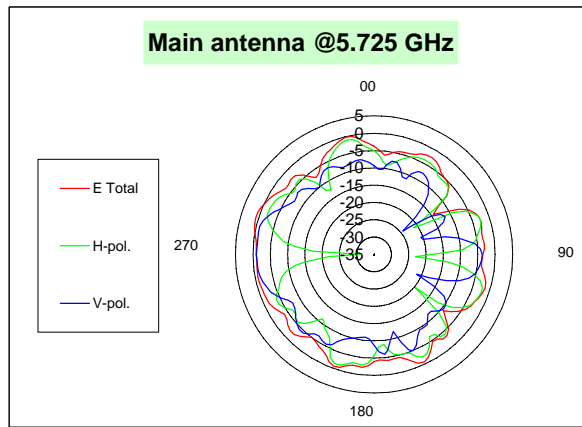
	Total	H-pol	V pol
Peak Gain	1.35	-0.48	-1.06

Note: The outer circle approximately represents the 5 dBi gain circle. Each circle with 5 dBi difference (Max=5 dBi and Min=-35 dBi)

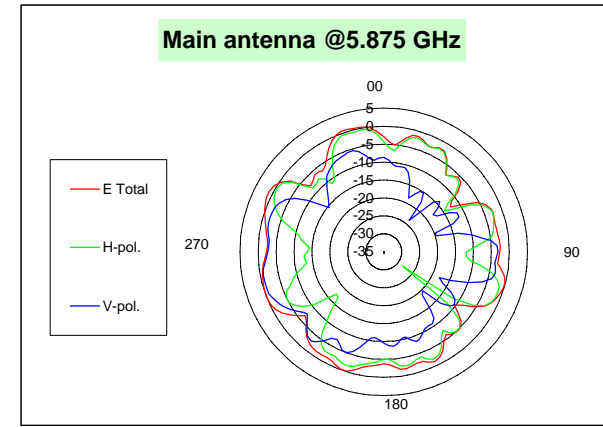
HyperLAN (5.470 GHz - 5.875 GHz) Antenna Radiation Patterns



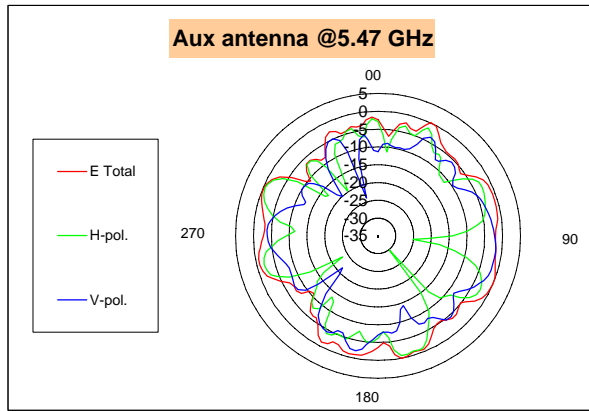
Peak Gain	Total	H-pol	V pol
	0.71	0.01	-0.09



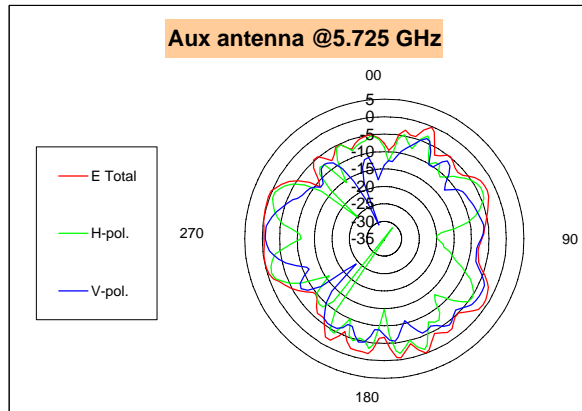
Peak Gain	Total	H-pol	V pol
	0.74	-1.07	-0.98



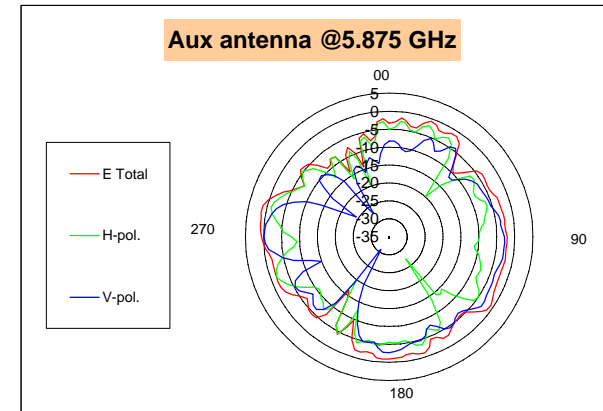
Peak Gain	Total	H-pol	V pol
	0.96	-0.44	-0.84



Peak Gain	Total	H-pol	V pol
	0.13	-0.51	-1.66



Peak Gain	Total	H-pol	V pol
	0.34	-0.98	-0.84



Peak Gain	Total	H-pol	V pol
	1.23	-1.15	-0.16

Note: The outer circle approximately represents the 5 dBi gain circle. Each circle with 5 dBi difference (Max=5 dBi and Min=-35 dBi)