

Regulatory WWAN Antenna Information

	Vendor Name	Project Code
OEM	Hewlett-Packard Company	Caymus
ODM	Compal Electronics,INC.	Caymus
Antenna	Wistron Neweb Corporation	EED-C

Antenna Information

Section 1. Antenna Assembly Specifications

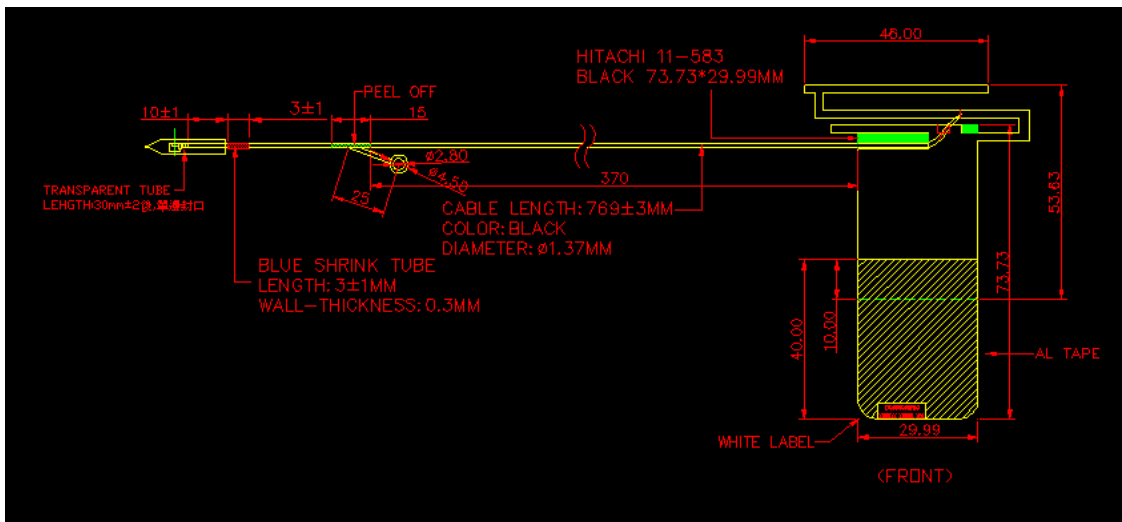
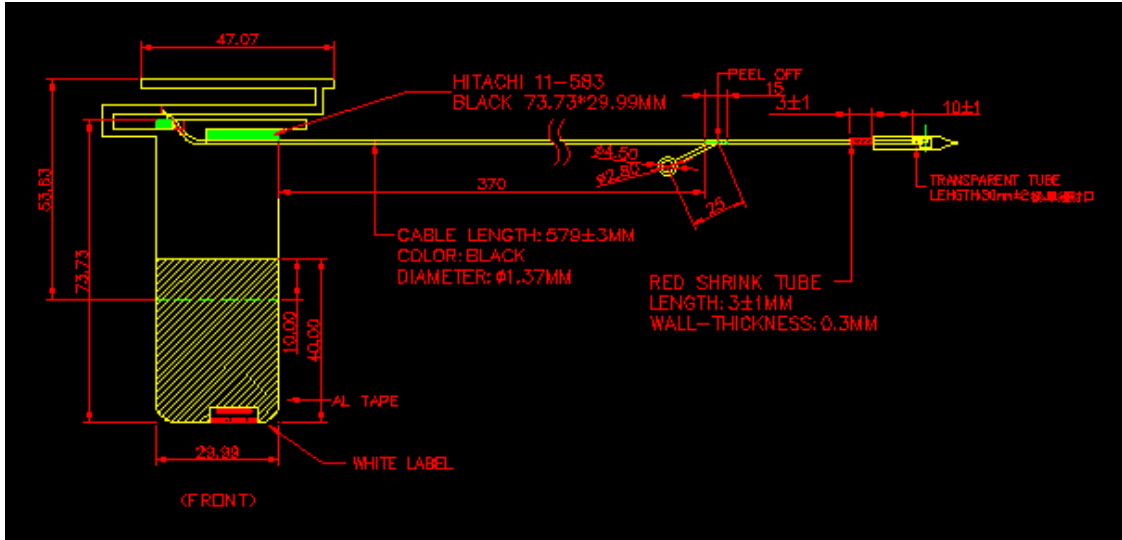
Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
Main Antenna (WNC P/N: 57.EED15.0 01) (customer P/N: DC330008R)	Wilstron Neweb Corporation	IFA	P/N: WN-S-1.37B-579MM-(3-3-1) 50 ohm Coaxial. length: 579 mm diameter: 1.37 mm Connector: IPEX	824-894MHz	824-894MHz	824-894MHz	824-894MHz
				1.04 dBi (peak)	-0.43 dBi (peak)	3.0 max	-1.47 dBi (peak)
				880-960MHz	880-960MHz	880-960MHz	880-960MHz
				1.15 dBi (peak)	-0.37 dBi (peak)	3.0 max	-1.52 dBi (peak)
				1710-1880MHz	1710-1880MHz	1710-1880MHz	1710-1880MHz
1.75 dBi (peak)	-0.44 dBi (peak)	2.0 max	-2.19 dBi (peak)				
1850-1990MHz	1850-1990MHz	1850-1990MHz	1850-1990MHz				
1.65 dBi (peak)	-0.57 dBi (peak)	2.0 max	-2.22 dBi (peak)				
1920-2170MHz	1920-2170MHz	1920-2170MHz	1920-2170MHz				
1.65 dBi (peak)	-0.58 dBi (peak)	2.0 max	-2.23 dBi (peak)				
AUX Antenna (WNC P/N: 57.EED15.0 02) (customer P/N: DC330008R)	Wilstron Neweb Corporation	IFA	P/N: WN-S-1.37B-769MM-(3-3-1) 50 ohm Coaxial. length: 769 mm diameter: 1.37 mm Connector: IPEX	864-894MHz	864-894MHz	864-894MHz	864-894MHz
				1.12 dBi (peak)	-0.35 dBi (peak)	3.0 max	-1.47 dBi (peak)
				925-960MHz	925-960MHz	925-960MHz	925-960MHz
				1.21 dBi (peak)	-0.31 dBi (peak)	3.0 max	-1.52 dBi (peak)
				1805-1880MHz	1805-1880MHz	1805-1880MHz	1805-1880MHz
1.33 dBi (peak)	-0.86 dBi (peak)	2.0 max	-2.19 dBi (peak)				
1930-1990MHz	1930-1990MHz	1930-1990MHz	1930-1990MHz				
1.66 dBi (peak)	-0.56 dBi (peak)	2.0 max	-2.22 dBi (peak)				
2110-2170MHz	2110-2170MHz	2110-2170MHz	2110-2170MHz				
0.37 dBi (peak)	-1.86 dBi (peak)	2.0 max	-2.23 dBi (peak)				

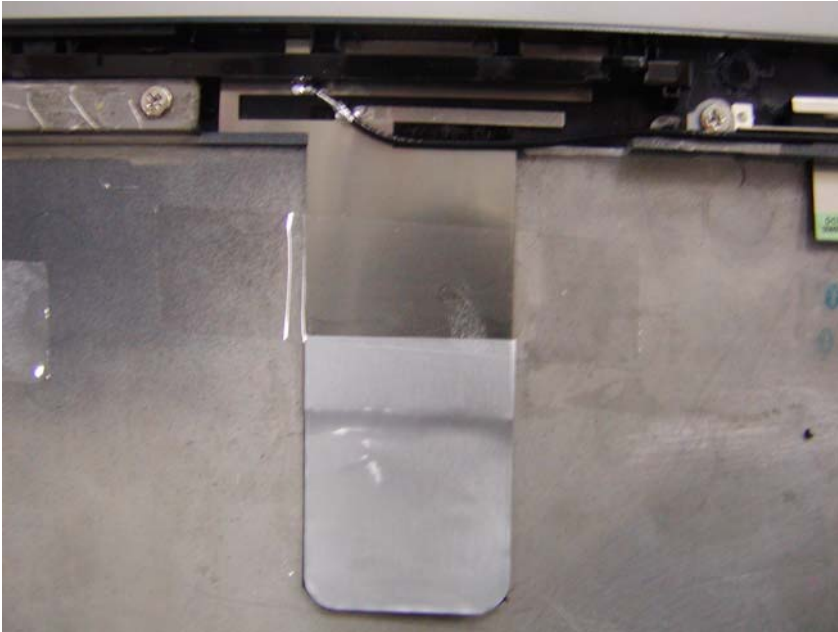
Section 2. Dimensioned Photos or Drawings of Antennas

Include a dimensioned photo and dimensioned drawing of main antenna here.

Main and Aux Antenna Dimensioned Drawing:



Main and Aux Antenna Photo:

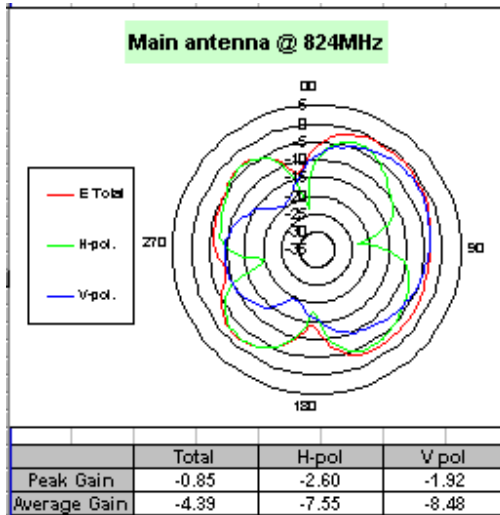


Section 3. Radiation characteristics of antennae Loaded in

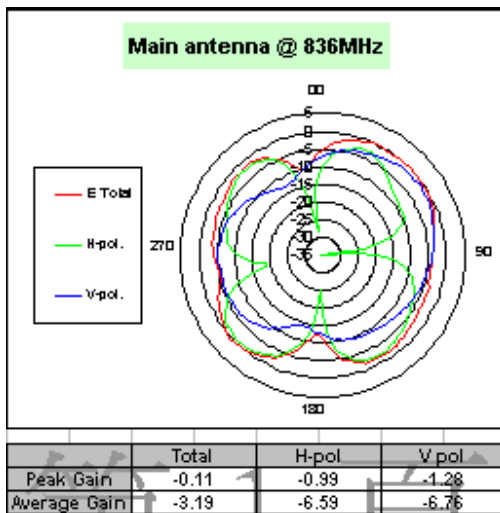
Host Platform

824-2170MHz radiation characteristic

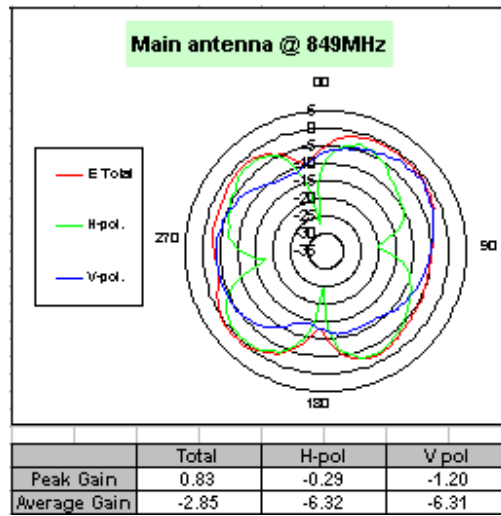
Main antenna: 824 MHz



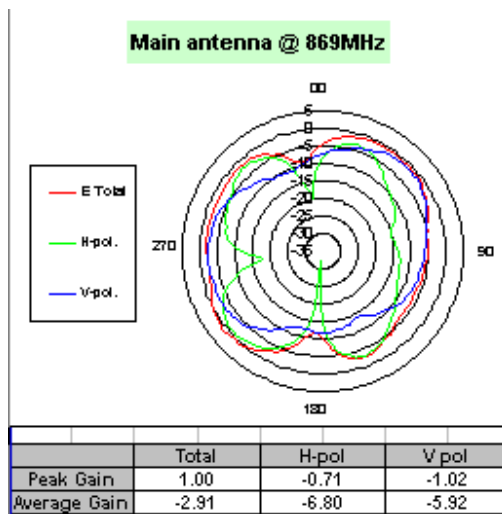
Main antenna: 836 MHz



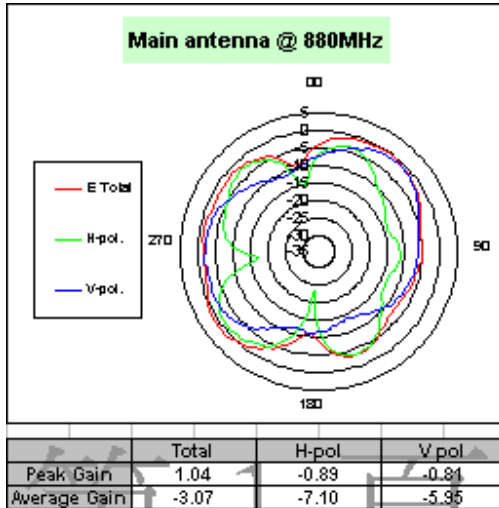
Main antenna: 849 MHz



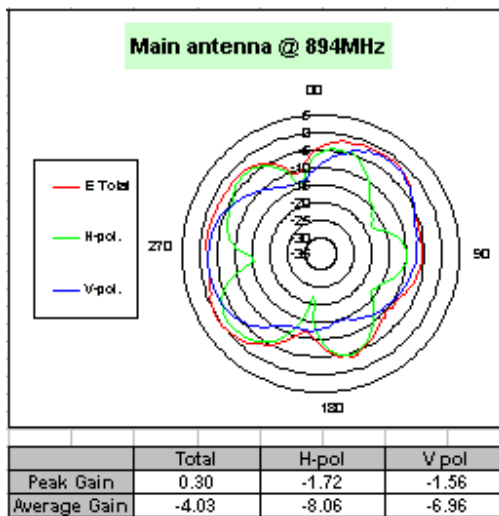
Main antenna: 869 MHz



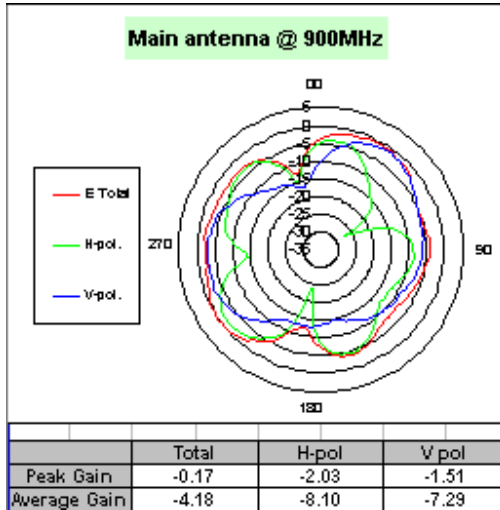
Main antenna: 880 MHz



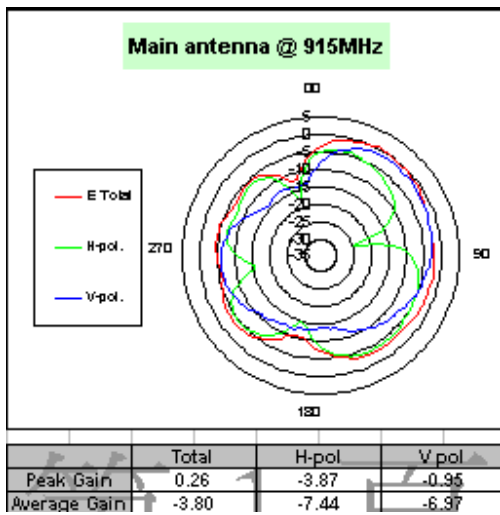
Main antenna: 894 MHz



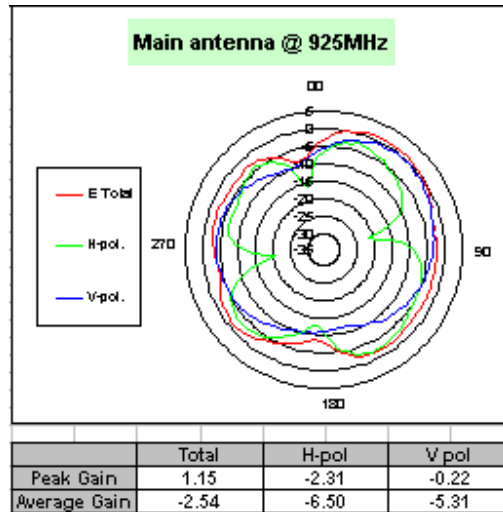
Main antenna: 900 MHz



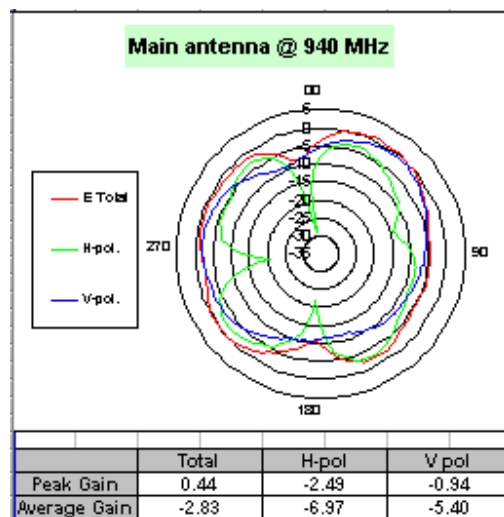
Main antenna: 915 MHz



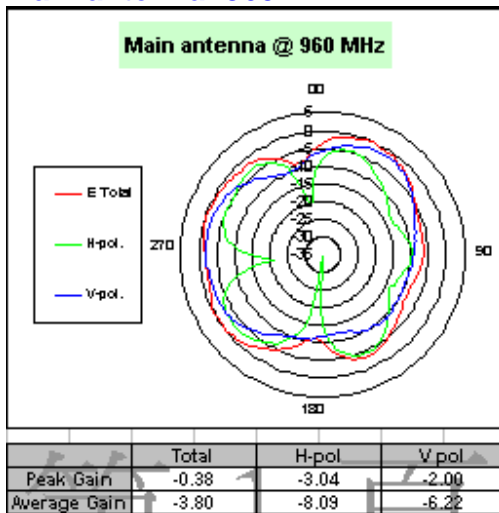
Main antenna: 925 MHz



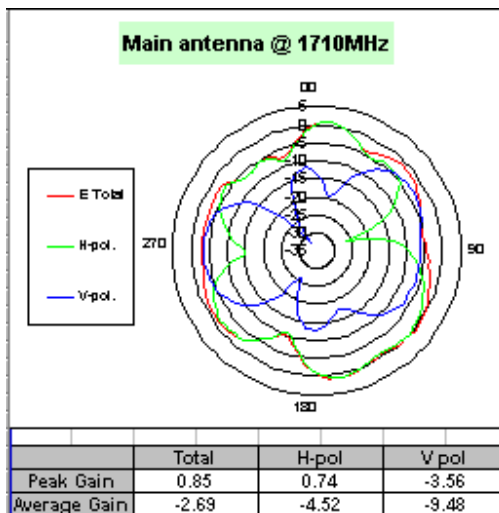
Main antenna: 940 MHz



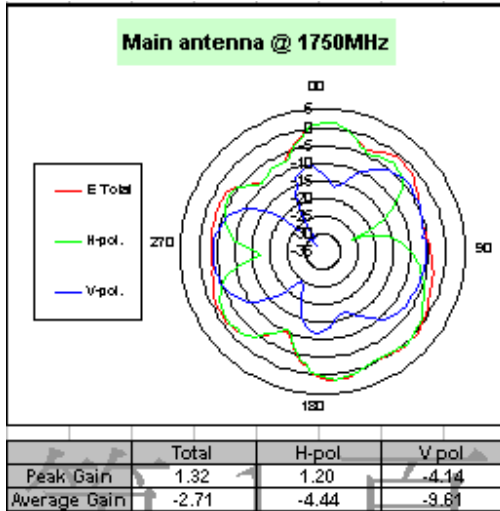
Main antenna: 960 MHz



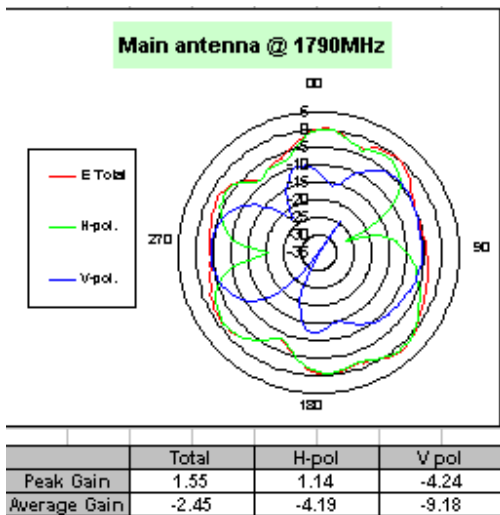
Main antenna: 1710 MHz



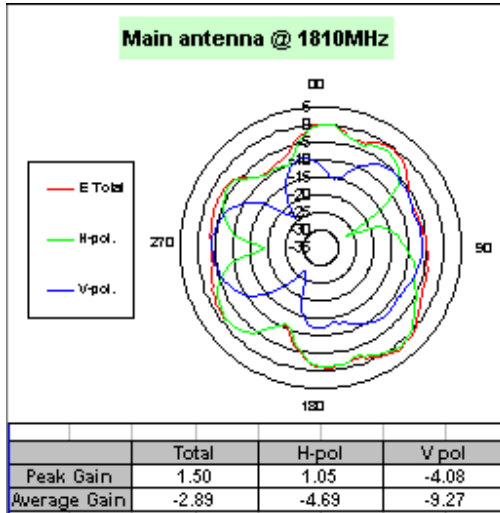
Main antenna: 1750 MHz



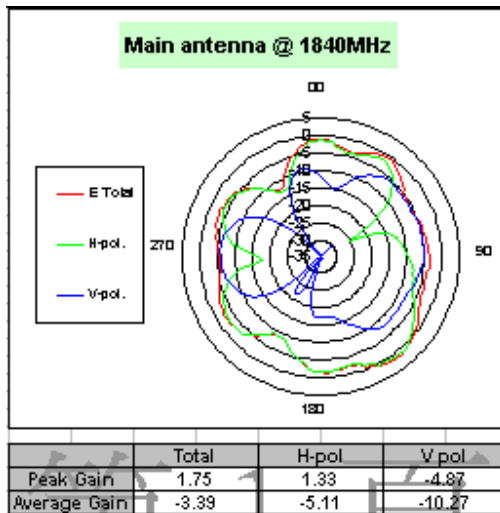
Main antenna: 1790 MHz



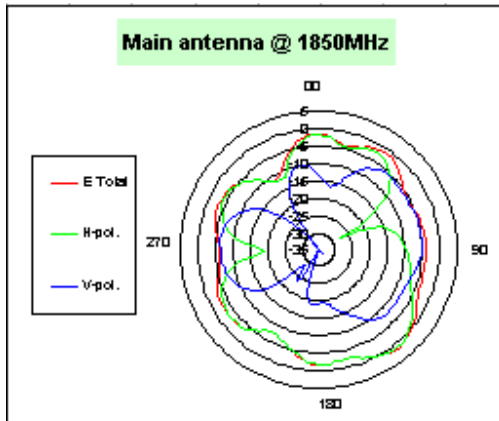
Main antenna: 1805 MHz



Main antenna: 1840 MHz

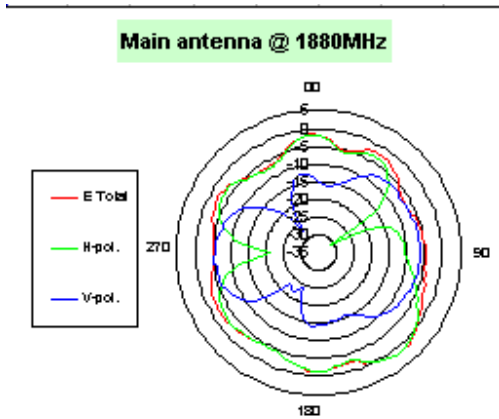


Main antenna: 1850 MHz



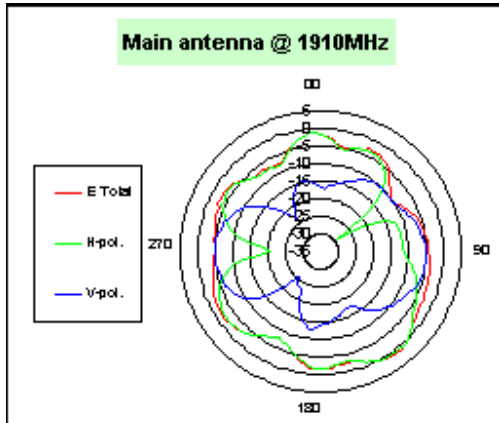
	Total	H-pol	V pol
Peak Gain	1.51	1.10	-4.95
Average Gain	-3.48	-5.18	-10.55

Main antenna: 1880 MHz



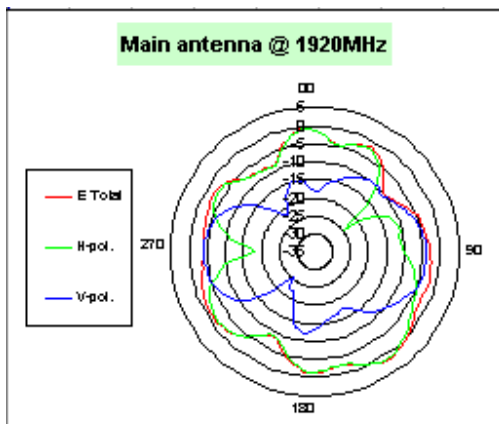
	Total	H-pol	V pol
Peak Gain	1.25	1.03	-5.65
Average Gain	-3.45	-5.05	-10.68

Main antenna: 1910 MHz



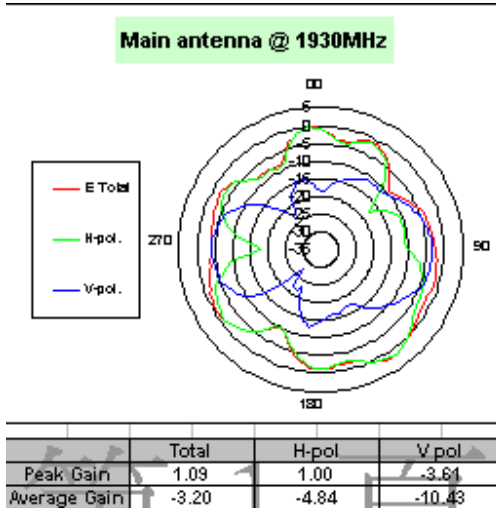
	Total	H-pol	V-pol
Peak Gain	0.96	0.83	-4.94
Average Gain	-3.45	-5.08	-10.71

Main antenna: 1920 MHz

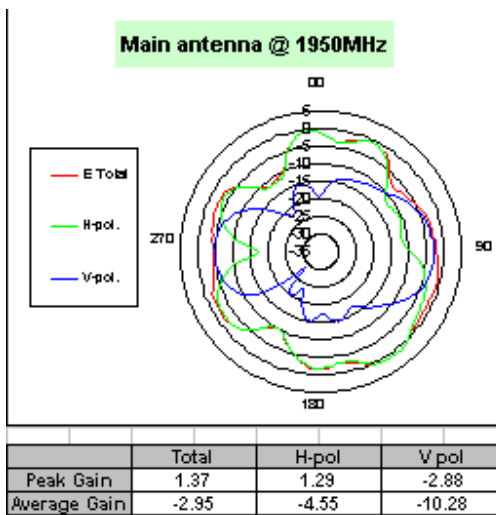


	Total	H-pol	V-pol
Peak Gain	0.97	0.85	-3.99
Average Gain	-3.30	-5.02	-10.28

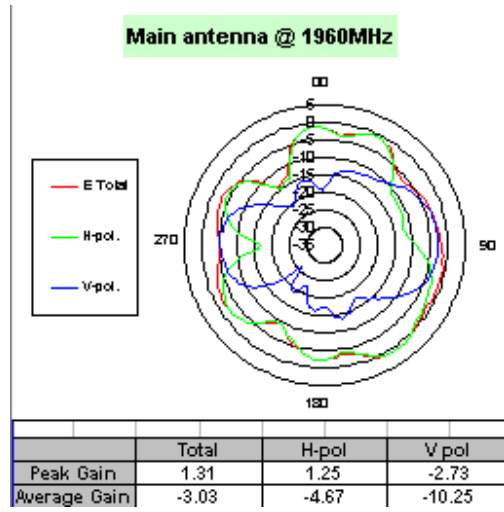
Main antenna: 1930 MHz



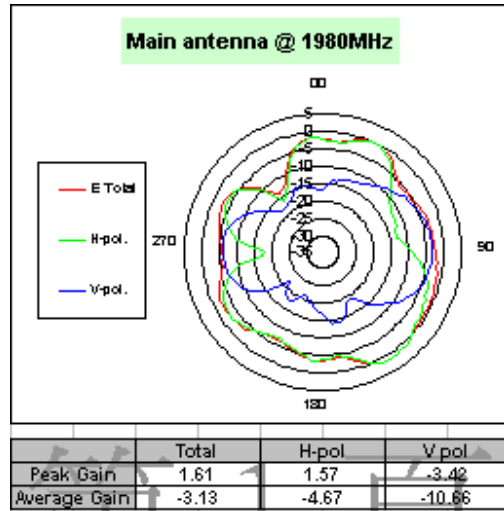
Main antenna: 1950 MHz



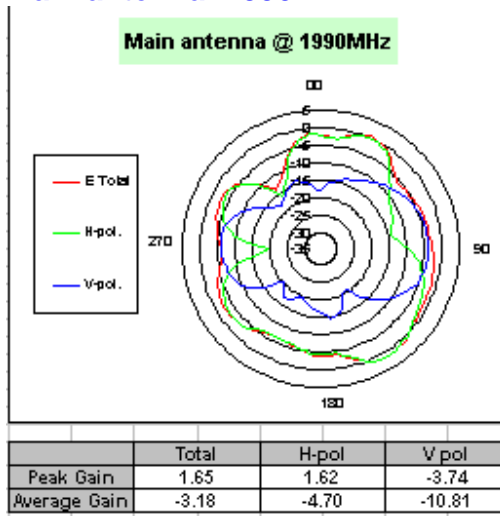
Main antenna: 1960 MHz



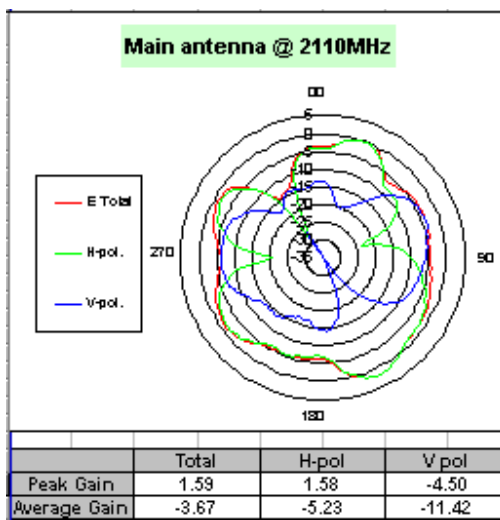
Main antenna: 1980 MHz



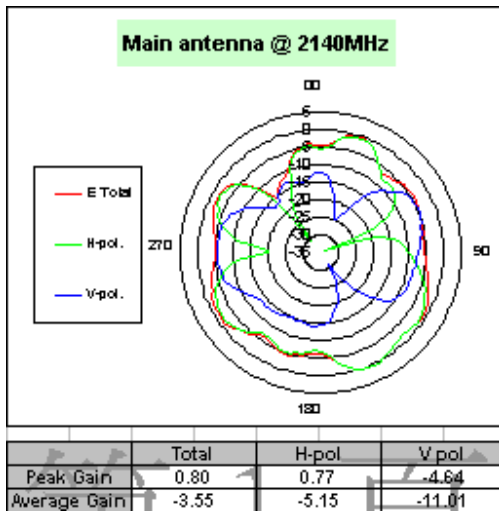
Main antenna: 1990 MHz



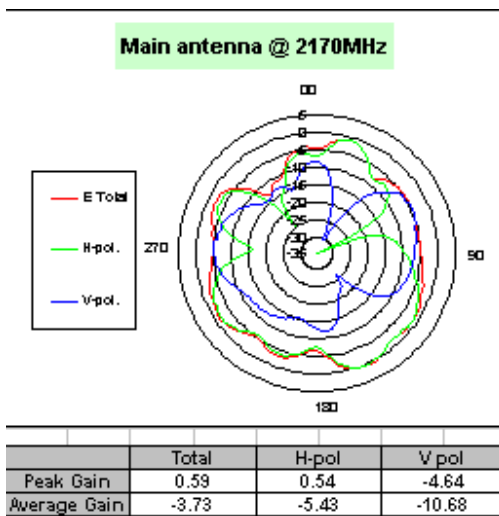
Main antenna: 2110 MHz



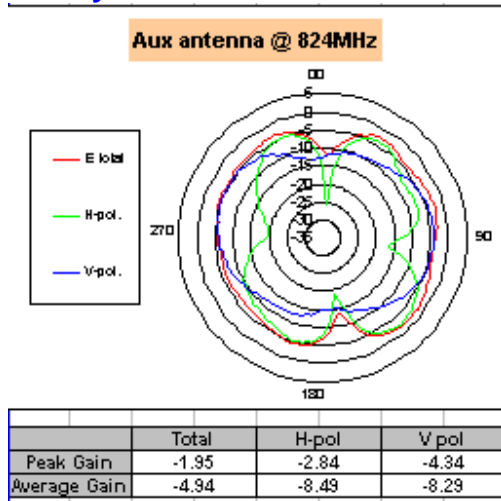
Main antenna: 2140 MHz



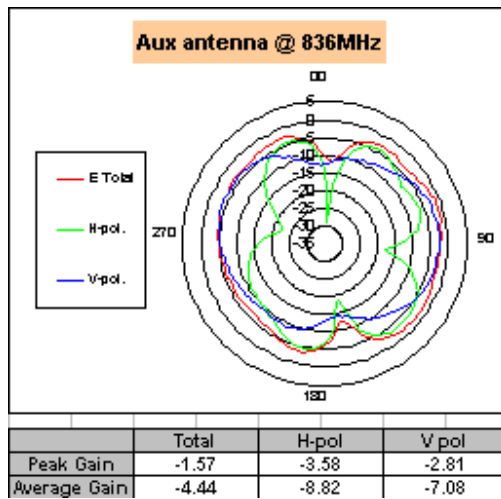
Main antenna: 2170 MHz



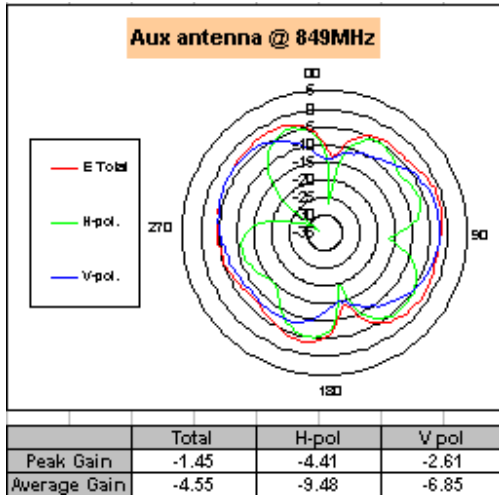
Auxiliary antenna: 824 MHz



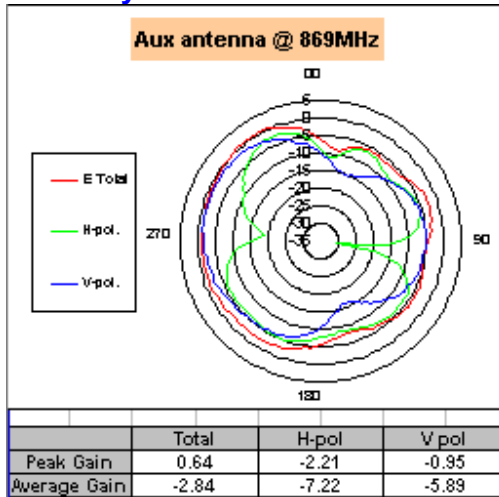
Auxiliary antenna: 836 MHz



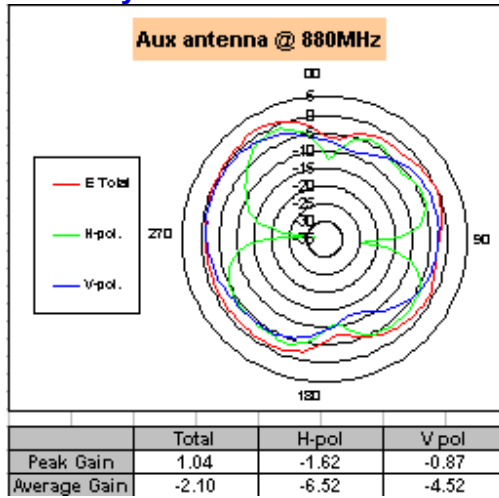
Auxiliary antenna: 849 MHz



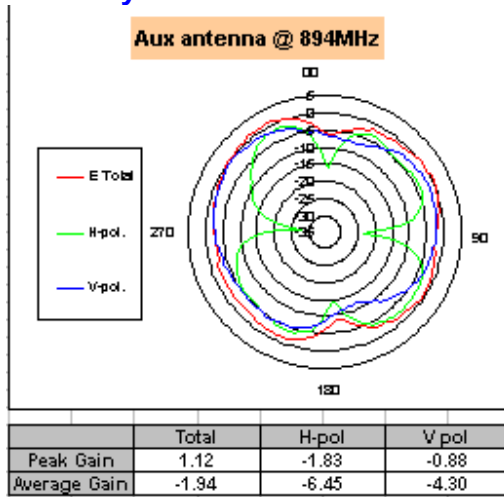
Auxiliary antenna: 869 MHz



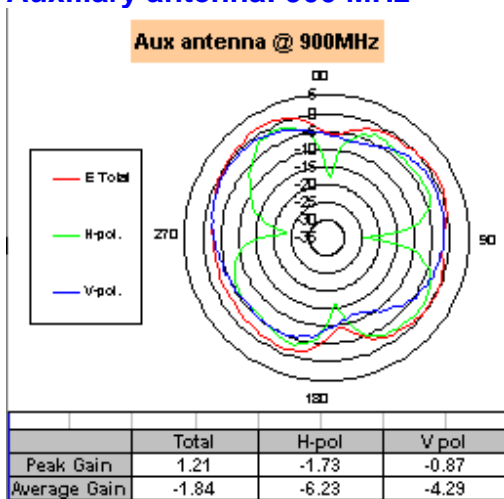
Auxiliary antenna: 880 MHz



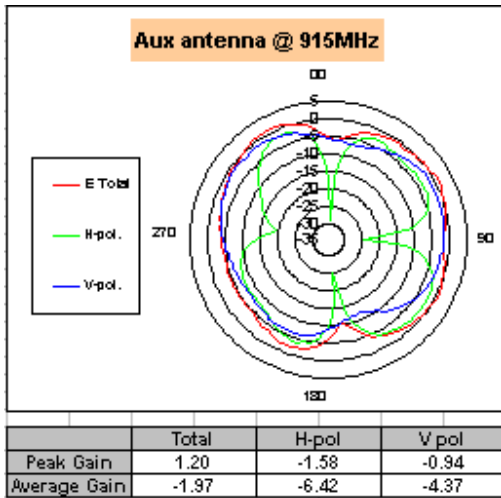
Auxiliary antenna: 894 MHz



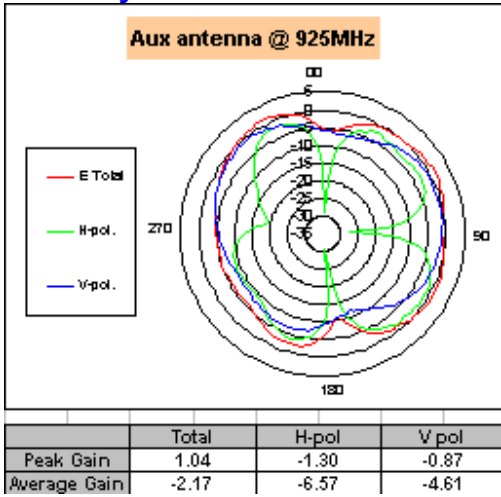
Auxiliary antenna: 900 MHz



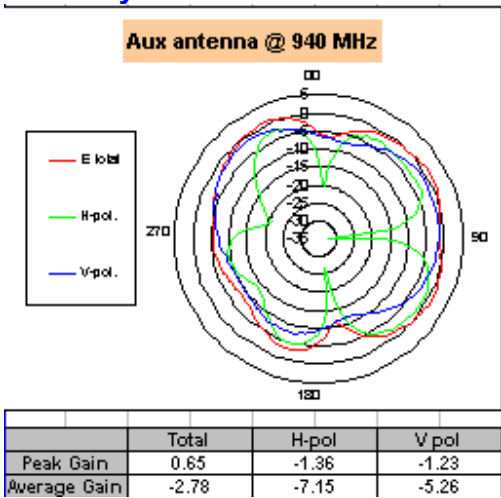
Auxiliary antenna: 915 MHz



Auxiliary antenna: 925 MHz

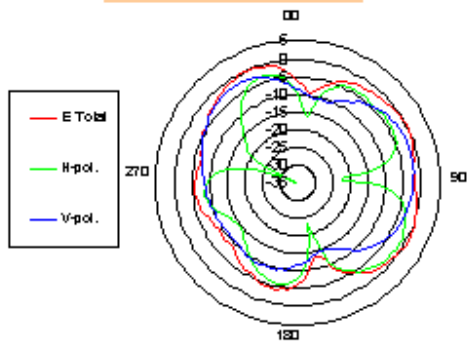


Auxiliary antenna: 940 MHz



Auxiliary antenna: 960 MHz

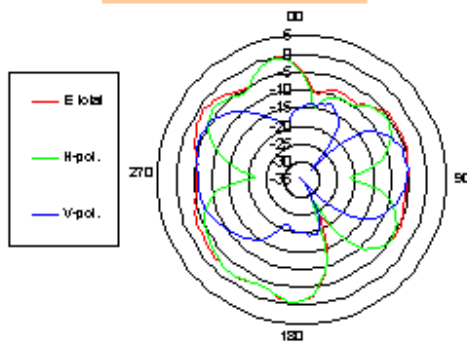
Aux antenna @ 960 MHz



	Total	H-pol	V pol
Peak Gain	0.05	-1.72	-2.16
Average Gain	-3.92	-7.90	-6.71

Auxiliary antenna:: 1710 MHz

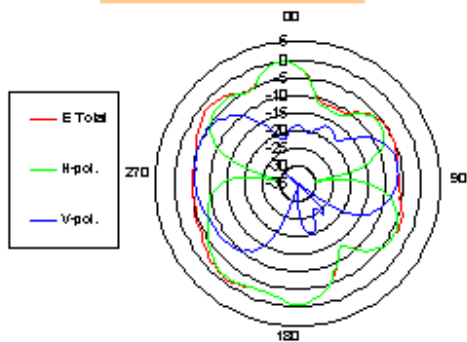
Aux antenna @ 1710MHz



	Total	H-pol	V pol
Peak Gain	-0.60	-0.67	-4.58
Average Gain	-4.79	-6.74	-11.36

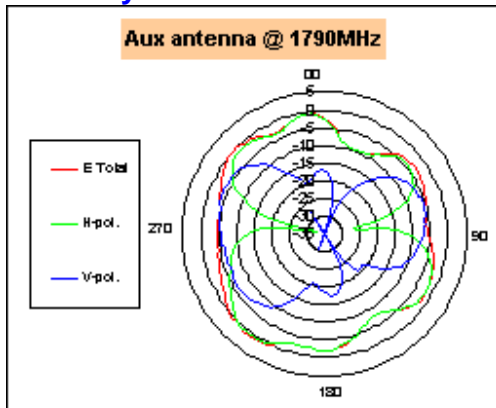
Auxiliary antenna:: 1750 MHz

Aux antenna @ 1750MHz



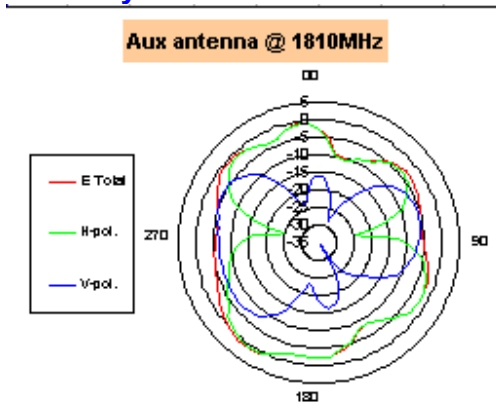
	Total	H-pol	V pol
Peak Gain	-0.35	-0.39	-5.29
Average Gain	-4.63	-6.37	-12.16

Auxiliary antenna:: 1790 MHz



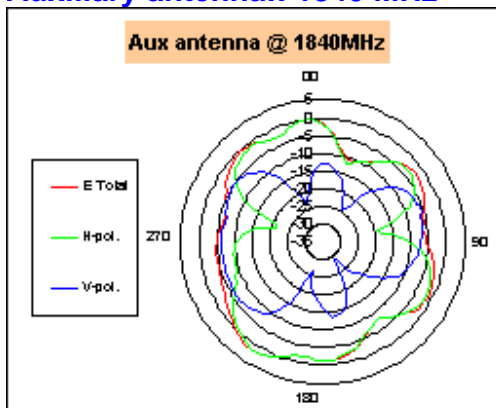
	Total	H-pol	V pol
Peak Gain	0.73	0.29	-4.13
Average Gain	-3.45	-5.08	-10.95

Auxiliary antenna:: 1810 MHz



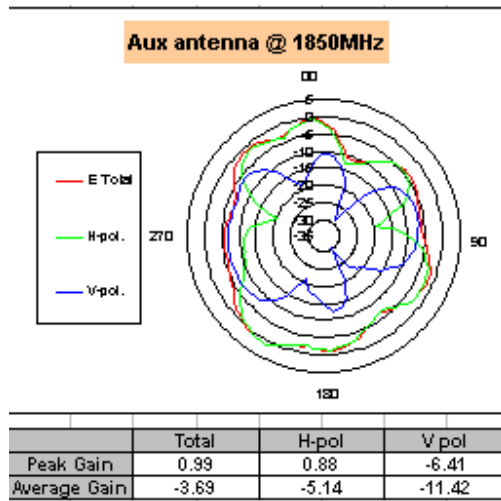
	Total	H-pol	V pol
Peak Gain	1.26	0.87	-4.35
Average Gain	-2.94	-4.81	-10.87

Auxiliary antenna:: 1840 MHz

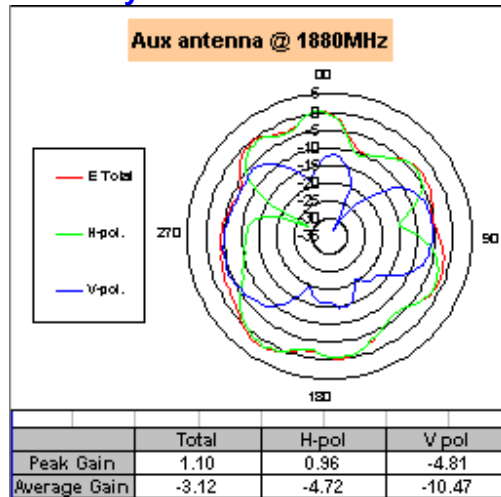


	Total	H-pol	V pol
Peak Gain	1.33	1.17	-5.42
Average Gain	-3.36	-4.85	-11.08

Auxiliary antenna:: 1850 MHz

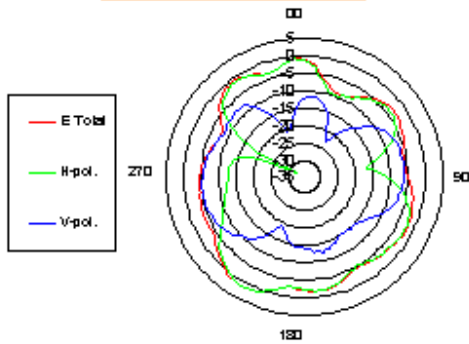


Auxiliary antenna::1880 MHz



Auxiliary antenna:: 1910 MHz

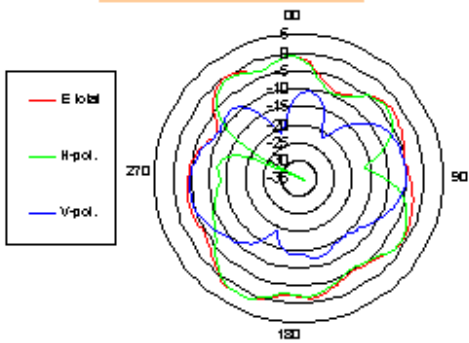
Aux antenna @ 1910MHz



	Total	H-pol	V pol
Peak Gain	1.51	1.45	-5.14
Average Gain	-3.19	-4.79	-10.46

Auxiliary antenna:: 1920 MHz

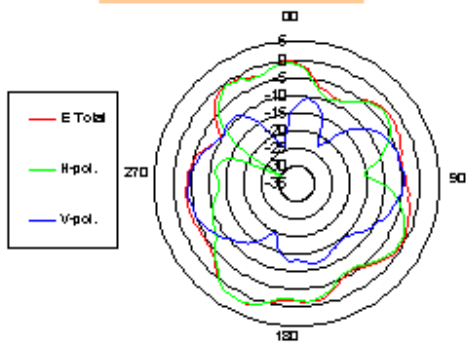
Aux antenna @ 1920MHz



	Total	H-pol	V pol
Peak Gain	1.43	1.36	-4.61
Average Gain	-3.20	-4.92	-10.11

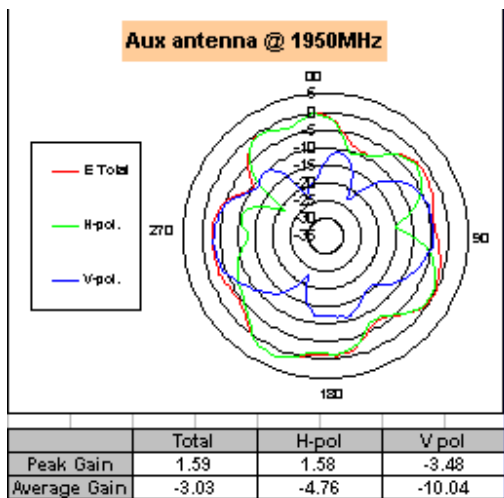
Auxiliary antenna:: 1930 MHz

Aux antenna @ 1930MHz

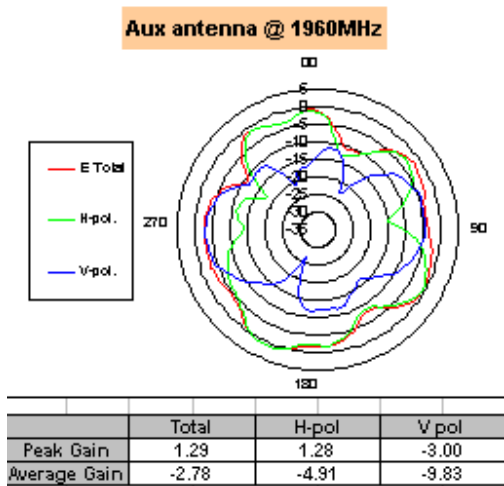


	Total	H-pol	V pol
Peak Gain	1.66	1.62	-4.46
Average Gain	-3.16	-4.84	-10.28

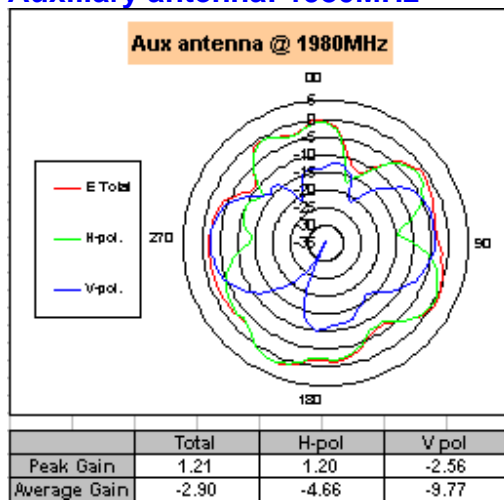
Auxiliary antenna:: 1950 MHz



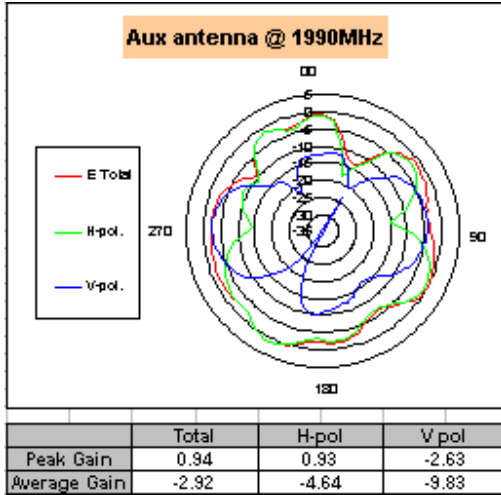
Auxiliary antenna:: 1960 MHz



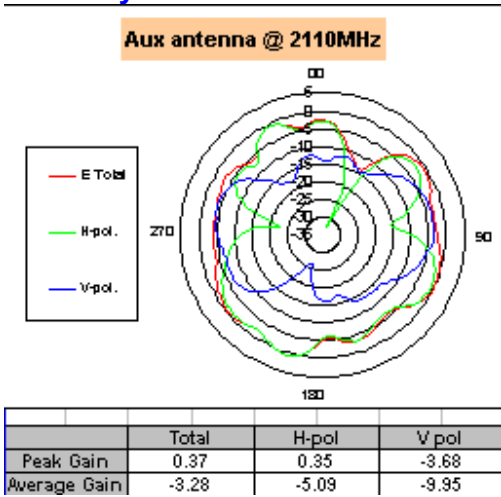
Auxiliary antenna: 1980MHz



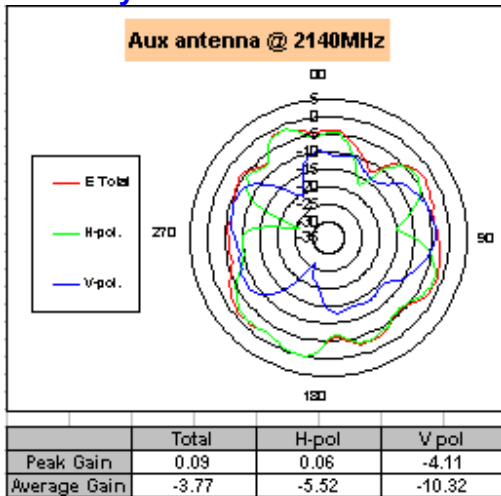
Auxiliary antenna:: 1990 MHz



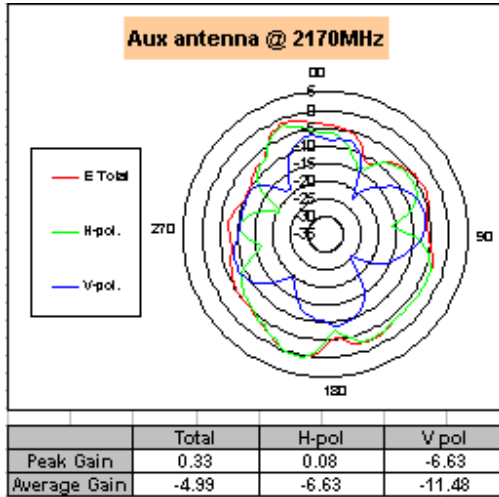
Auxiliary antenna:: 2110 MHz



Auxiliary antenna:: 2140 MHz



Auxiliary antenna:: 21700 MHz



[Section 4. Host Platform Information](#)

OEM / ODM Host platform: (HSTNN-C18C) platform correlated to antenna data

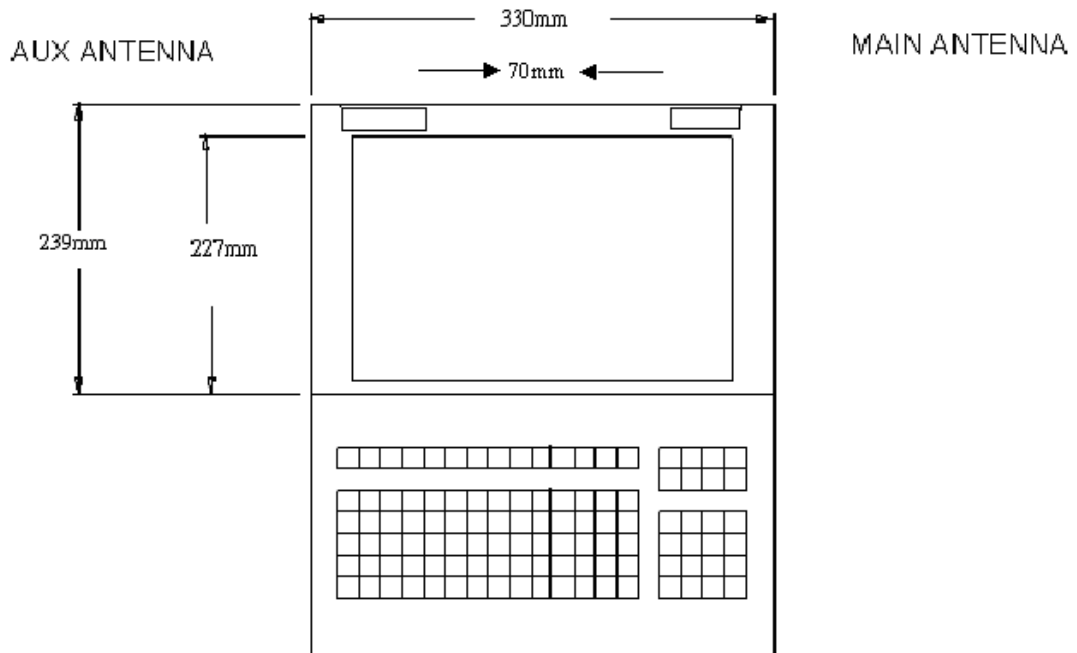
Rating Label Photo:

Module Location Photo: (if Singapore required)



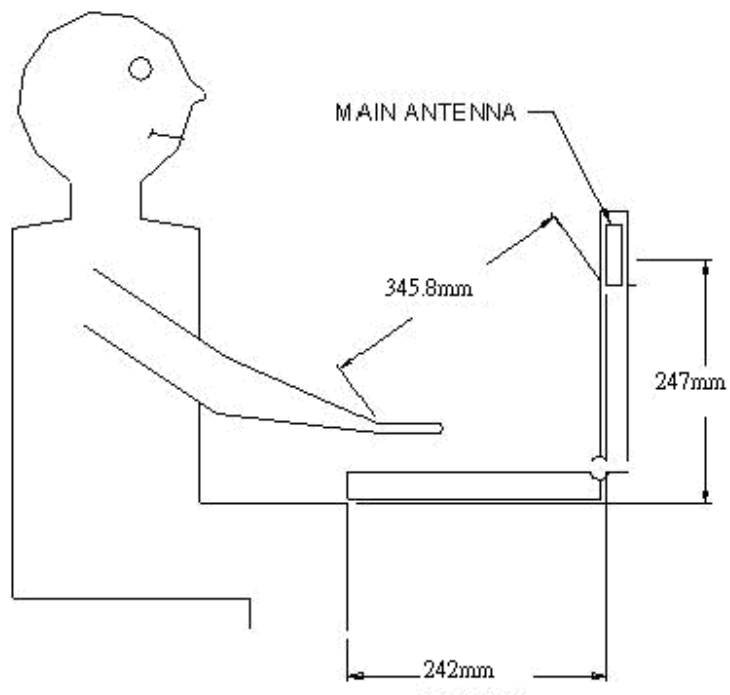
Section 5. Antenna Host Platform Location Information

Include a **dimensioned photo or dimensioned drawing** of main and auxiliary antenna placements.



Section 6. Antenna dimensional information for SAR evaluation

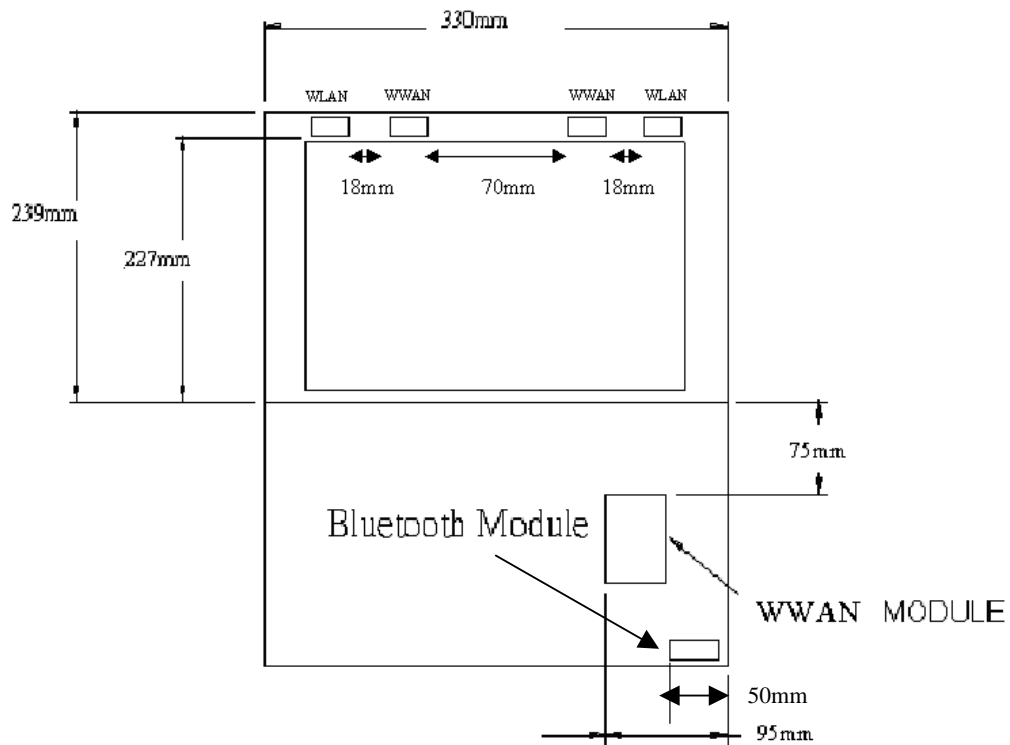
Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between the transmit (main) antenna and the user (excluding hands, wrist, feet, and ankle)



Section 7. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between WWAN antenna and 2nd radiator transmit antenna.

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)



Section 8. Local representative contact information

Local representative contact information is required for regulatory support for target countries below.