

Regulatory Antenna Information

Platform	
Platform Owner	Acer Incorporated
Brand Name	Acer Incorporated
Model Name	JV01
ODM	COMPAL ELECTRONICS INC
Target Launch Date	(2009 / /)
Antenna	
Brand Name	Wistron NeWeb Corpation
Part Number	☐ WWAN Main: DC33000KB20
	☐ WWAN Aux: DC33000KB30
	☐ WLAN,MAIN+AUX: DC33000KB90
Module	
With WLAN Module	☐ WM3B2200BG
(Check Box)	☐ WM3B2915ABG
	☐ WM3945ABG
	☐ 4965AGN
	☐ 4965AG_
	☐ 533ANX Family
	☐ 512ANX Family
	☐ 533AN Family
	☐ 512AN Family

Antenna Sample / Antenna Data Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US / IC	EU	Japan	Taiwan	S.Korea
1A	Part Number for Antenna only	Required	Required	Required	Required	Required
1B	Antenna Manufacturer Name	Required	Required	Required	Required	Required
1C	Description of Antenna Type	Required	N/A	N/A	N/A	N/A
1D	Part number of Antenna Assembly / cable impedance, length & diameter.	Required	Desired	Desired	Desired	Desired
1E	Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Tx1, Tx2 & Tx3 antenna (Peak Gain only) *	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs and Drawings of Tx1, Tx2, and Tx3 (or Rx3) antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	Required	Desired	Required	N/A	Required
4	Platform model name / number - correlated to antenna manufacturer and antenna part number	Required	Required	Desired	Required	Desired
5	Photograph(s) or Drawings showing location of antennas in platform. (S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.	Required	Required	Desired	Required (Photos)	Required (Photos)
6	Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).	Required	N/A	N/A	N/A	N/A
7	Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.	Required	N/A	N/A	N/A	N/A
8	Local representative contact information for LMA/ PARS process.	Required	N/A	N/A	N/A	N/A

NOTE:

(*) if 3rd antenna is Rx only (e.g. receive only for 4965AGN) then peak gain and cable loss not required

Antenna Information

Section 1. Antenna Assembly Specifications

Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	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)
3G main Antenna (WNC P/N:81.EJT15.G61) (Customer P/N:DC33000KB20)	COMPAL ELECTRONICS INC	PIFA	P/N: 60.EJT02.023 50 ohm Coaxial. length: 575 mm diameter: 1.13 mm Connector: IPEX	824-894MHz -3.64 dBi (peak)	824-894MHz -3.12 dBi (peak)	824-894MHz 3.0 max	824-894MHz 0.52 dBi (peak)
				869-894MHz -2.95 dBi (peak)	869-894MHz -2.43 dBi (peak)	869-894MHz 3.0 max	869-894MHz 0.52 dBi (peak)
				900-925MHz -2.88 dBi (peak)	900-925MHz -2.36 dBi (peak)	900-925MHz 3.0 max	900-925MHz 0.52 dBi (peak)
				940-1710MHz 0.80 dBi (peak)	940-1710MHz 1.32 dBi (peak)	940-1710MHz 3.0 max	940-1710MHz 0.52 dBi (peak)
				1750~1805MHz 0.78 dBi (peak)	1750~1805MHz 1.36 dBi (peak)	1750~1805MHz 4.0 max	1750~1805MHz 0.58 dBi (peak)
				1840~1910MHz 1.33 dBi (peak)	1840~1910MHz 1.91 dBi (peak)	1840~1910MHz 4.0 max	1840~1910MHz 0.58 dBi (peak)
				1920~1950MHz 1.25 dBi (peak)	1920~1950MHz 1.83 dBi (peak)	1920~1950MHz 3.0 max	1920~1950MHz 0.58 dBi (peak)
				1960~1990MHz 1.29 dBi (peak)	1960~1990MHz 1.87 dBi (peak)	1960~1990MHz 3.0 max	1960~1990MHz 0.58 dBi (peak)
				2110~2170MHz 1.08 dBi (peak)	2110~2170MHz 3.11 dBi (peak)	2110~2170MHz 3.0 max	2110~2170MHz 2.03 dBi (peak)
3G AUX Antenna (WNC P/N:81.EJT15.G62) (Customer P/N:DC33000KB30)	COMPAL ELECTRONICS INC	PIFA	P/N: 60.EJT02.024 50 ohm Coaxial. length: 481 mm diameter: 1.13 mm	869~894MHz -1.29 dBi (peak)	869~894MHz -0.71 dBi (peak)	869~894MHz 3.0 max	869~894MHz 0.58 dBi (peak)
				1930-2170MHz -0.29 dBi (peak)	1930-2170MHz 1.44 dBi (peak)	1930-2170MHz 3.0 max	1930-2170MHz 1.73 dBi (peak)
MIMO Antenna (WNC P/N:81.EJT15.GAH) (customer P/N:DC33000KB90)	COMPAL ELECTRONICS INC	monopole	P/N: 60.EJT02.031 50 ohm Coaxial. length: 351 mm diameter: 1.13 mm Connector: IPEX	2400-2450MHz -0.18 dBi (peak)	2400-2450MHz 1.26 dBi (peak)	2400-2450MHz 2.0 max	2400-2450MHz 1.44 dBi (peak)
				2450-2500MHz 0.86 dBi (peak)	2450-2500MHz 2.31 dBi (peak)	2450-2500MHz 2.5 max	2450-2500MHz 1.44 dBi (peak)
				5150-5350MHz -1.15 dBi (peak)	5150-5470MHz 0.99 dBi (peak)	5150-5470MHz 2.5 max	5150-5470MHz 2.14 dBi (peak)
				5470-5725MHz 0.30 dBi (peak)	5150-5470MHz 1.10 dBi (peak)	5150-5470MHz 2.5 max	5150-5470MHz 0.80 dBi (peak)
				5725-5850MHz 0.37 dBi (peak)	5600-5750MHz 2.56 dBi (peak)	5600-5750MHz 2.5 max	5600-5750MHz 2.19 dBi (peak)

MIMO Antenna (WNC P/N:81.EJT15.0AH) (customer P/N:DC33000KB90)	COMPAL ELECTRONICS INC	monopole	P/N: 60.EJT02.032 50 ohm Coaxial. length: 391 mm diameter: 1.13 mm Connector IPEX :	2400-2450MHz	2400-2450MHz	2400-2450MHz	2400-2450MHz
				0.91 dBi (peak)	2.35 dBi (peak)	2.0 max	1.44 dBi (peak)
				2450-2500MHz	2450-2500MHz	2450-2500MHz	2450-2500MHz
				0.91 dBi (peak)	2.35 dBi (peak)	2.5 max	1.44 dBi (peak)
				5150-5350MHz	5150-5470MHz	5150-5470MHz	5150-5470MHz
				0.36 dBi (peak)	2.50 dBi (peak)	2.5 max	2.14 dBi (peak)
				5470-5725MHz	5150-5470MHz	5150-5470MHz	5150-5470MHz
				0.33 dBi (peak)	1.13 dBi (peak)	2.5 max	0.80 dBi (peak)
				5725-5850MHz	5600-5750MHz	5600-5750MHz	5600-5750MHz
				0.49 dBi (peak)	2.68 dBi (peak)	2.5 max	2.19 dBi (peak)

NOTE:

(*) If Rx3 only (3rd antenna receives only, e.g. for 4965AGN) then the information marked with * is not required

Antenna Peak Gain Table:

Main antenna Gain						
Frequency (MHz)	Max value			Average		
	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)
824	-3.65	-4.21	-1.62	-7.15	-9.26	-4.54
836	-3.78	-4.13	-1.64	-7.10	-9.17	-4.46
849	-3.72	-3.64	-1.43	-6.95	-8.63	-4.18
869	-3.58	-3.35	-1.31	-6.81	-8.26	-4.00
880	-2.95	-3.20	-0.94	-6.65	-7.94	-3.75
894	-3.02	-3.22	-1.05	-6.60	-7.82	-3.68
900	-2.88	-3.10	-1.08	-6.60	-7.69	-3.62
915	-2.92	-3.61	-1.55	-7.01	-7.94	-3.97
925	-2.92	-3.65	-1.60	-7.18	-7.87	-4.03
940	-2.84	-3.75	-1.70	-7.27	-7.83	-4.05
960	-2.76	-3.85	-1.98	-7.33	-7.76	-4.04
1710	0.80	-4.45	1.15	-5.87	-9.72	-3.92
1750	0.64	-4.55	1.05	-5.88	-9.56	-3.83
1785	0.57	-4.26	1.05	-5.84	-9.14	-3.70
1805	0.78	-3.79	1.29	-5.76	-8.76	-3.53
1840	1.00	-3.69	1.45	-5.67	-8.07	-3.24
1850	1.00	-3.69	1.61	-5.56	-8.00	-3.15
1880	1.33	-3.02	1.80	-5.74	-7.75	-3.14
1910	1.03	-2.64	1.56	-6.23	-7.43	-3.23
1920	1.20	-2.22	1.71	-6.26	-7.29	-3.17
1930	1.25	-1.96	1.76	-6.34	-7.16	-3.12
1950	1.29	-2.07	1.77	-6.48	-7.26	-3.21
1960	1.04	-2.41	1.53	-6.35	-7.29	-3.20
1980	0.76	-2.98	1.23	-6.56	-7.46	-3.44
1990	0.76	0.00	1.19	-6.58	-7.41	-3.46
2110	0.81	-3.42	1.15	-6.38	-7.56	-3.46
2140	1.08	-2.99	1.48	-6.65	-7.33	-3.52
2170	1.51	-3.33	1.95	-6.56	-7.46	-3.58

3G Aux antenna Gain						
Frequency (MHz)	Max value			Average		
	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)
869	-2.28	-3.84	-2.23	-7.80	-9.94	-5.22
880	-1.63	-3.64	-1.51	-7.59	-9.82	-5.05
894	-1.29	-3.84	-1.19	-7.70	-10.03	-5.21
1930	-1.03	-1.86	0.10	-6.57	-7.89	-3.88
1960	-0.53	-0.91	0.79	-6.27	-7.65	-3.59
1990	-0.29	-0.92	0.69	-6.30	-7.57	-3.59
2110	-0.17	-0.57	1.10	-6.74	-6.78	-3.50
2140	-0.57	-1.07	0.85	-6.76	-6.80	-3.48
2170	-0.63	-1.43	0.67	-6.92	-6.92	-3.57

MIMO Main antenna Gain						
Frequency (MHz)	Max value			Average		
	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)
2400	-1.52	-1.54	0.23	-7.10	-9.17	-4.47
2450	-0.18	-4.48	0.88	-6.71	-8.59	-4.20
2500	0.86	-2.04	2.50	-6.66	-8.00	-4.01
5150	-1.15	-3.23	0.16	-7.19	-8.12	-4.37
5250	-2.84	-2.50	-0.74	-8.48	-8.15	-4.99
5350	-2.11	-3.19	-0.37	-8.65	-9.76	-5.79
5470	-0.41	-2.89	0.14	-7.75	-8.87	-4.85
5600	-2.08	-3.39	-0.94	-7.05	-8.54	-4.32
5725	0.30	-3.37	0.55	-6.58	-8.49	-3.91
5785	0.35	-2.51	0.61	-6.31	-7.99	-3.64
5850	0.37	-2.40	0.89	-6.85	-8.02	-3.88

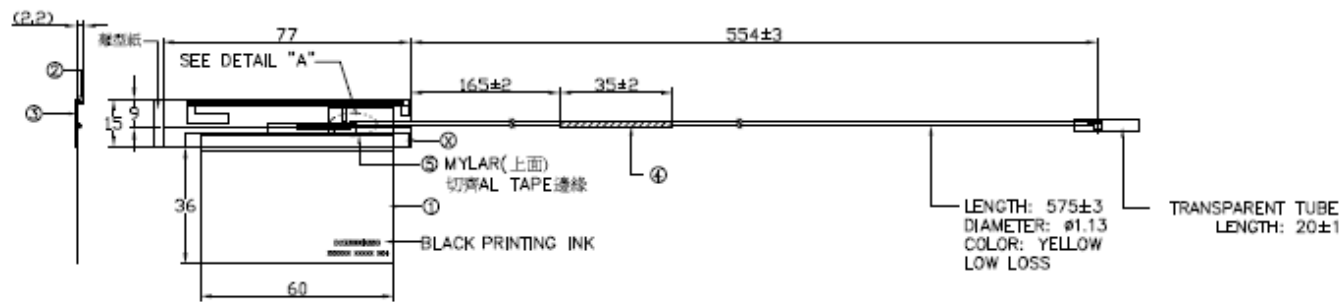
MIMO AUX antenna Gain						
Frequency (MHz)	Max value			Average		
	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)	H-pol (dBi)	V pol (dBi)	Total(dBi) (H-pol+V-pol)
2400	0.48	0.76	3.16	-6.74	-6.41	-3.20
2450	0.91	0.88	3.15	-6.61	-6.38	-3.13
2500	-2.28	0.04	0.93	-7.42	-6.07	-3.28
5150	0.36	-1.71	2.34	-8.09	-7.24	-4.31
5250	-0.89	-0.44	1.13	-7.63	-7.08	-4.05
5350	-1.23	0.04	1.06	-7.33	-6.69	-3.65
5470	-1.08	0.33	0.77	-7.07	-6.66	-3.54
5600	-1.25	0.33	1.83	-6.83	-6.22	-3.22
5725	-1.01	-0.71	1.17	-6.91	-6.53	-3.42
5785	-0.22	-0.67	1.56	-7.24	-6.68	-3.63
5850	-0.60	0.49	2.29	-6.86	-6.27	-3.18

- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V
- If Rx3 only (3rd antenna receives only, e.g. for 4965AGN) then the information is not required for Rx3.
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Section 2. Dimensioned Photos or Drawings of Antennas

Include a dimensioned photo and dimensioned drawing of Main and AUX antenna here.

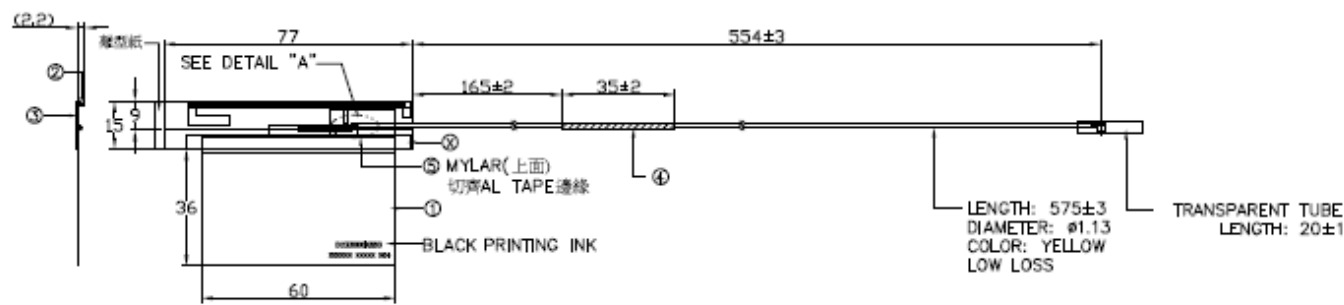
WWAN MAIN Antenna Dimensioned Drawing:



WWAN Main Antenna Photo:



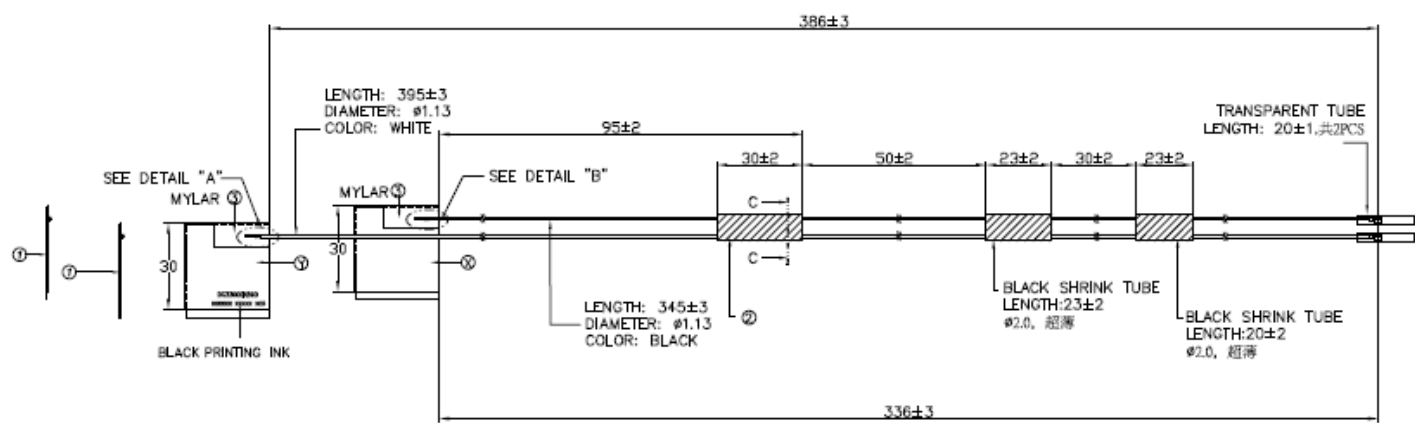
WWAN Aux Antenna Dimensioned Drawing:



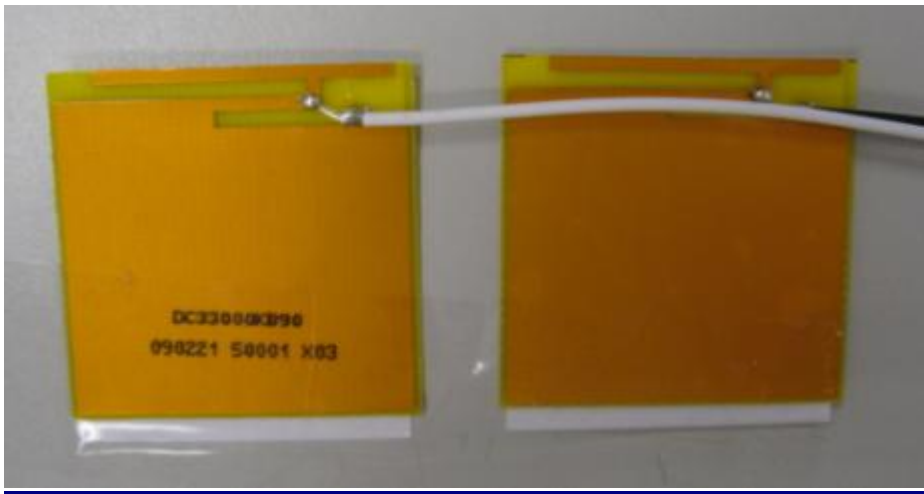
WWAN Aux Antenna Photo:



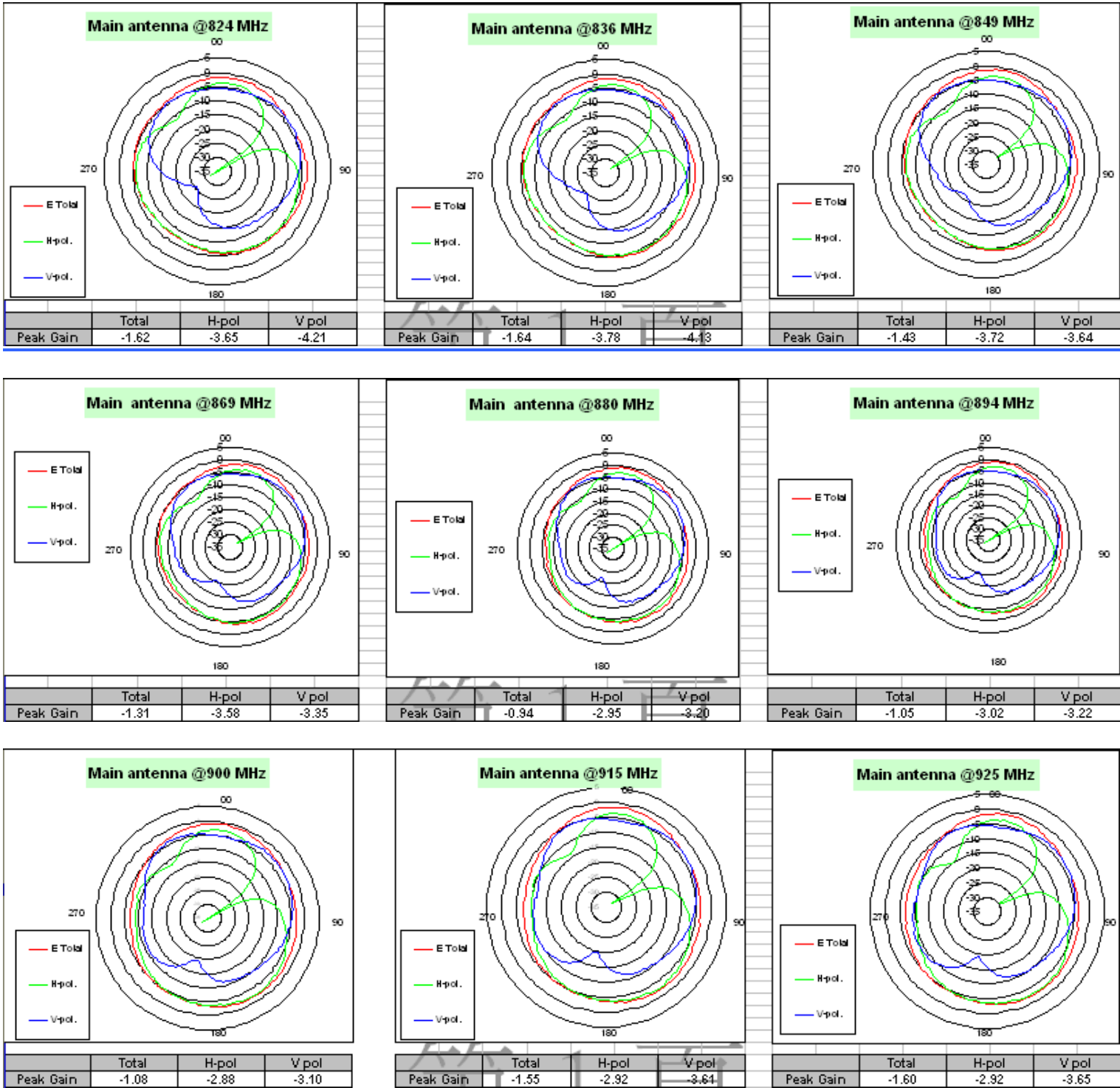
WLAN,MAIN+Aux Antenna Dimensioned Drawing:

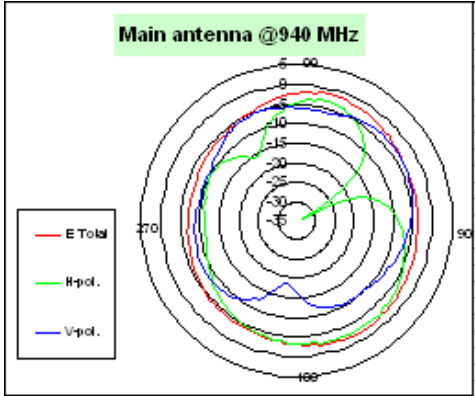


WLAN,MAIN+Aux Antenna Photo:

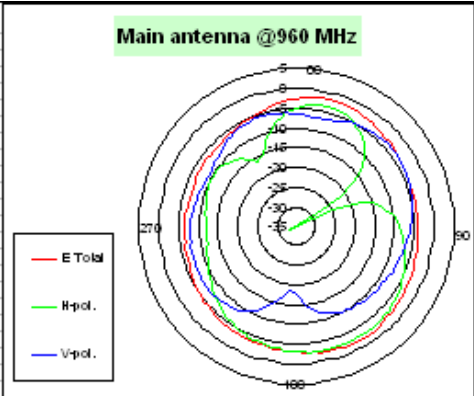


Section3. Radiation characteristics of antennae Loaded in Host Platform

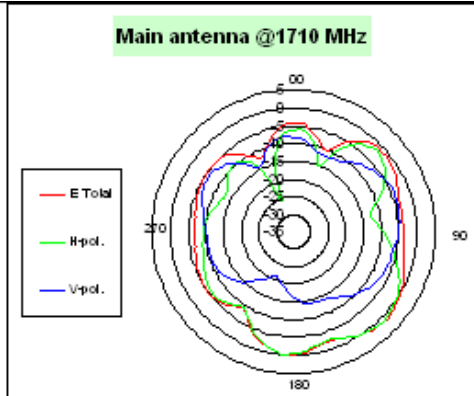




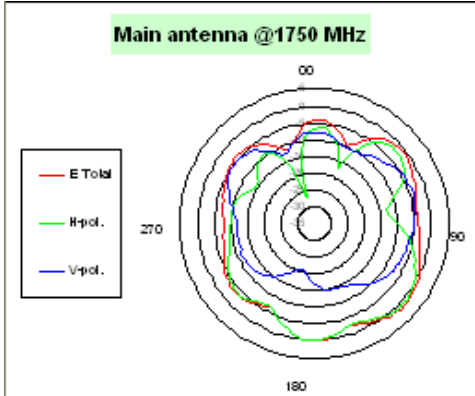
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Peak Gain	-1.70	-2.84	-3.75



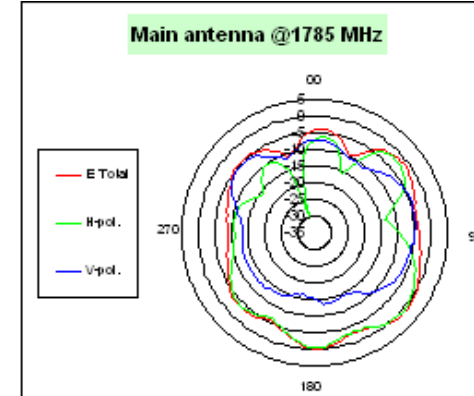
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Peak Gain	-1.98	-2.76	-3.86



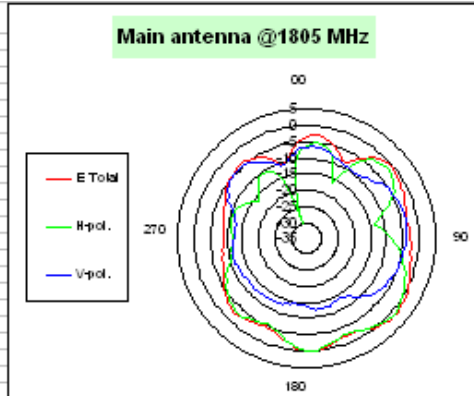
	Total	H-pol	V pol
Peak Gain	1.15	0.80	-4.45



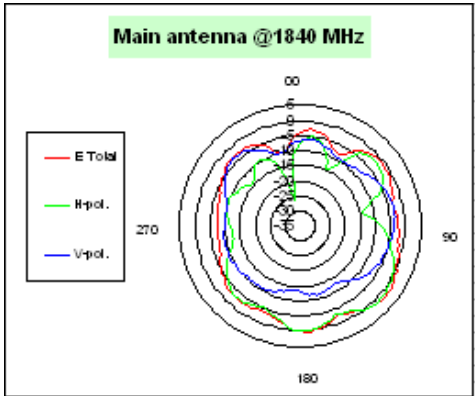
	Total	H-pol	V pol
Peak Gain	1.05	0.64	-4.55



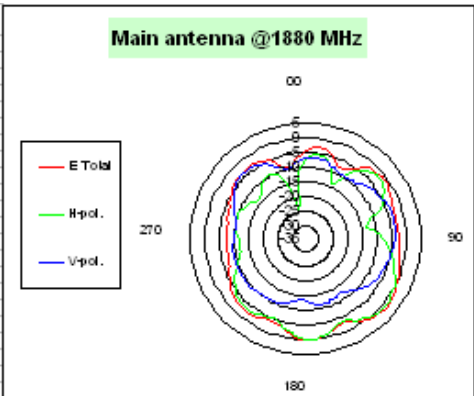
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Peak Gain	1.05	0.57	-4.26



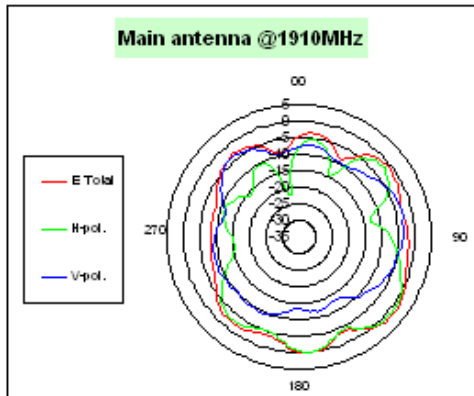
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Peak Gain	1.29	0.78	-3.79



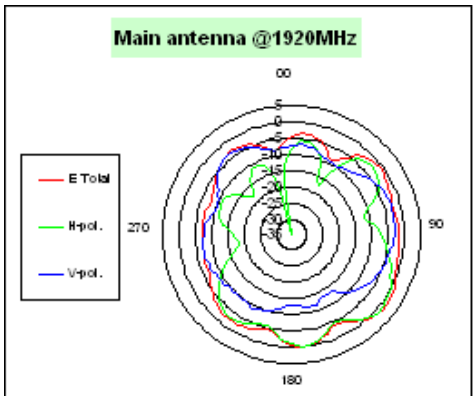
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Peak Gain	1.45	1.00	-3.69



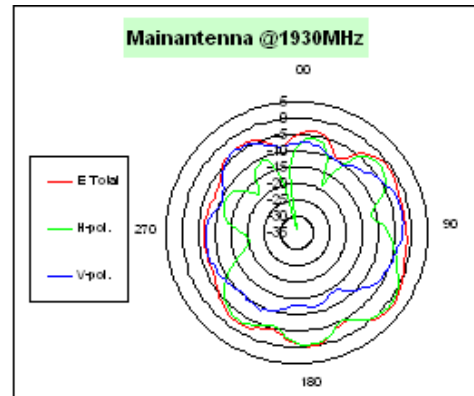
	Total	H-pol	V pol
Peak Gain	#REF!	#REF!	#REF!



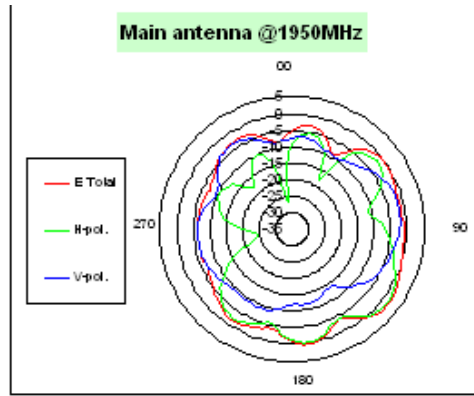
	Total	H-pol	V pol
Peak Gain	1.80	1.33	-3.02



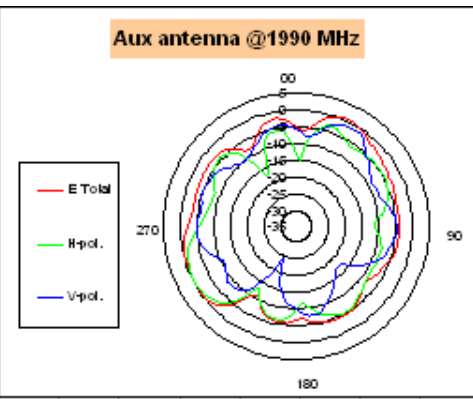
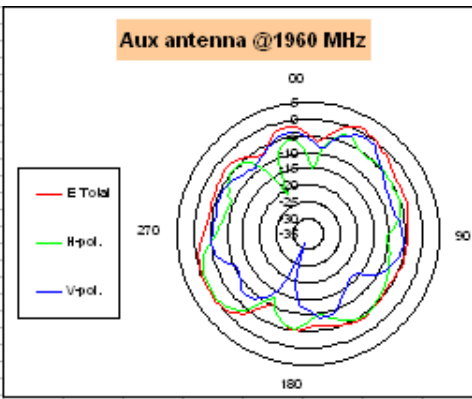
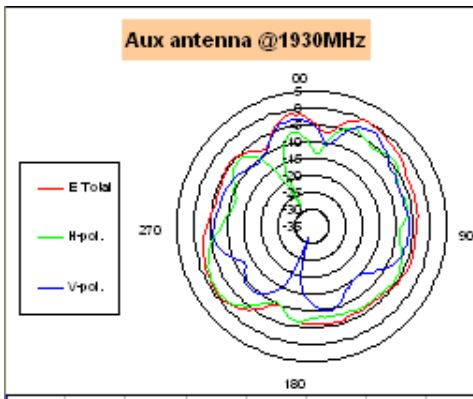
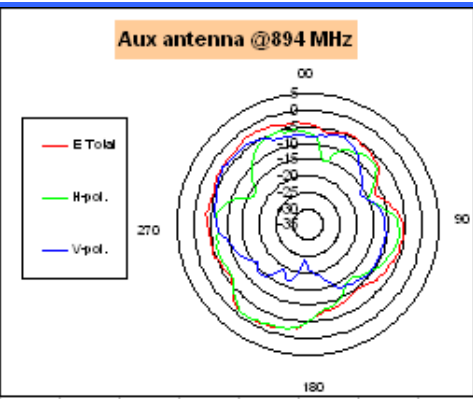
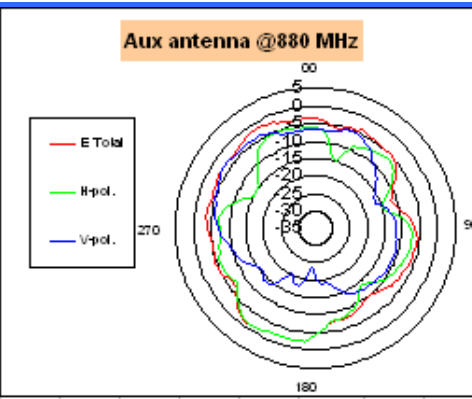
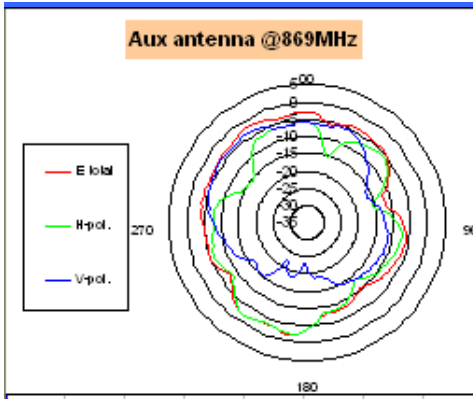
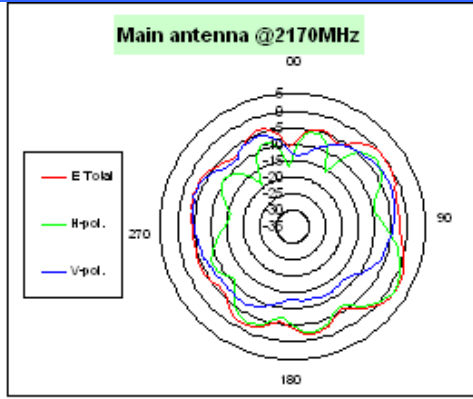
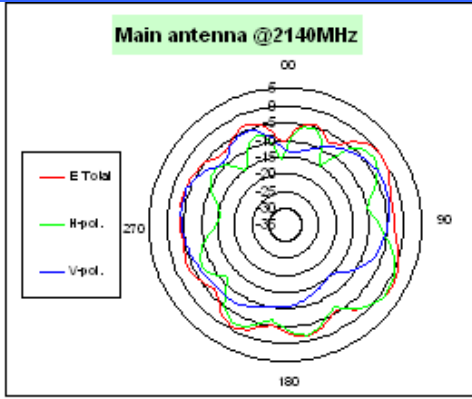
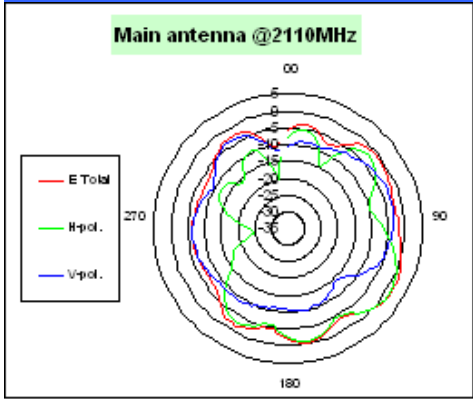
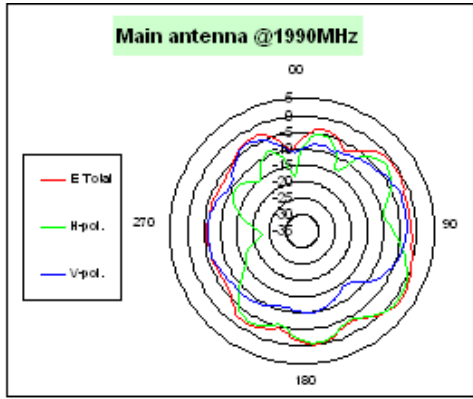
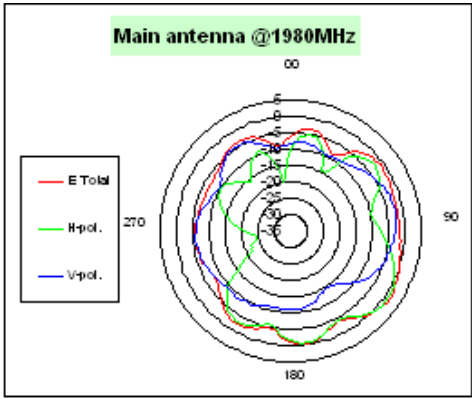
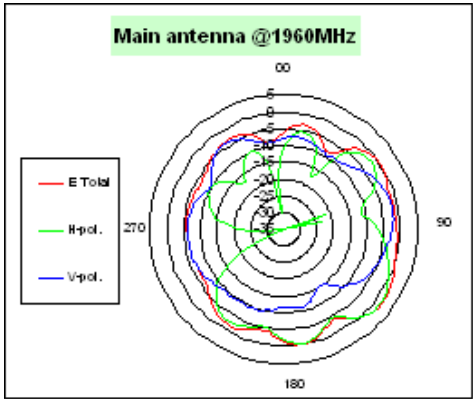
	Total	H-pol	V pol
Peak Gain	1.56	1.03	-2.64

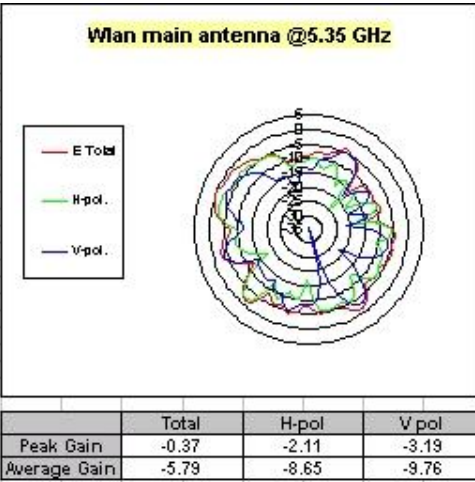
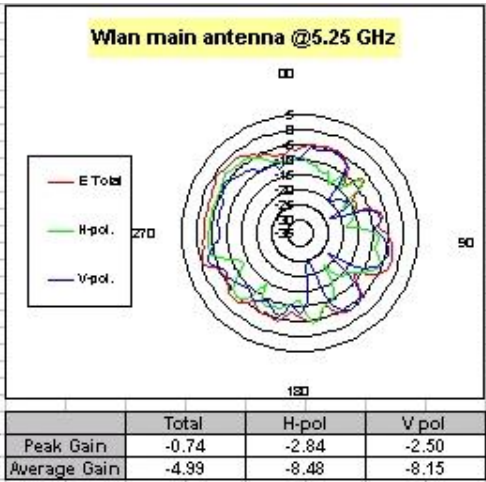
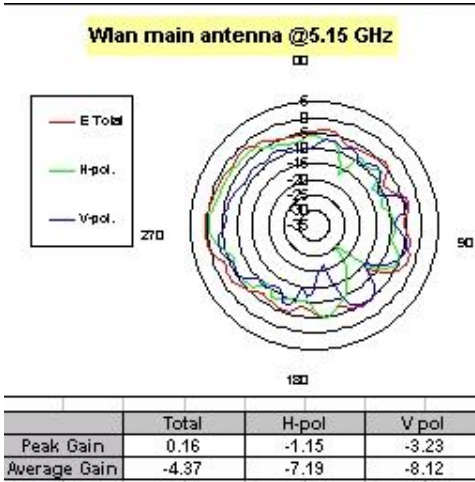
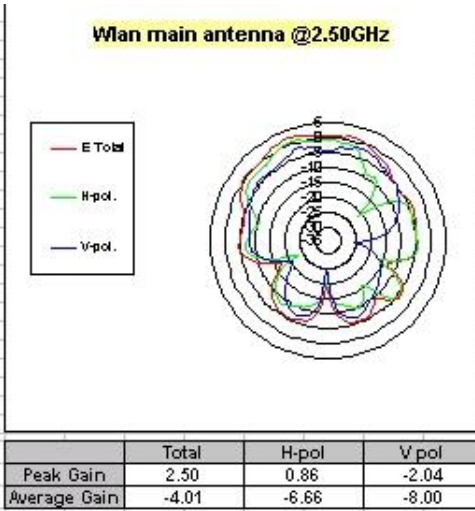
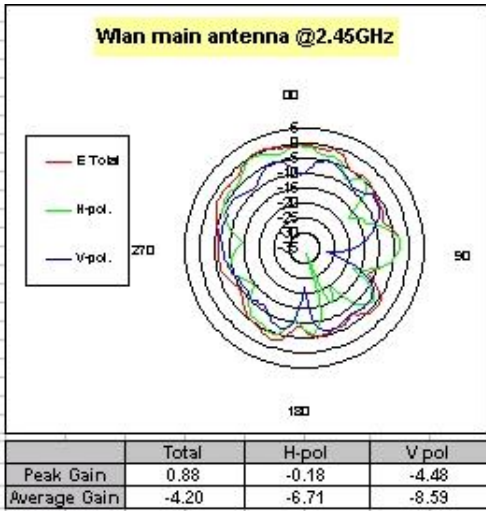
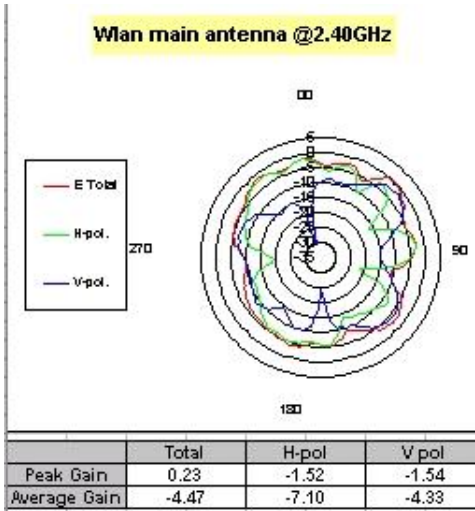
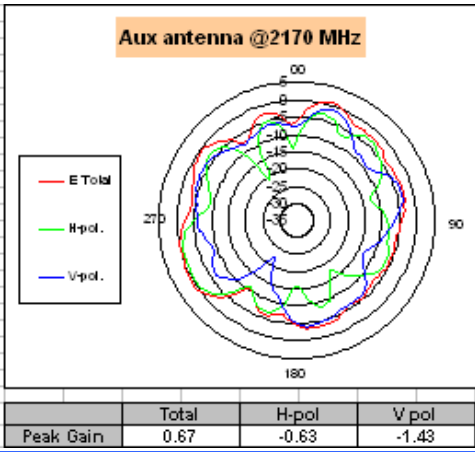
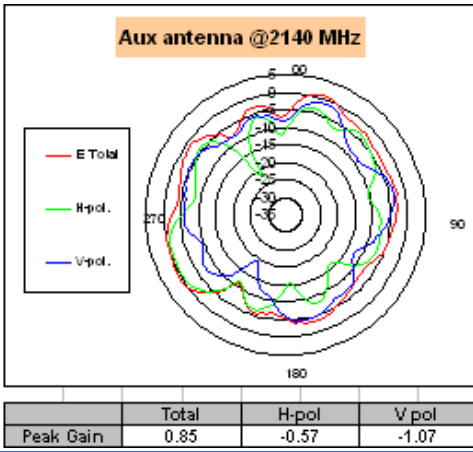
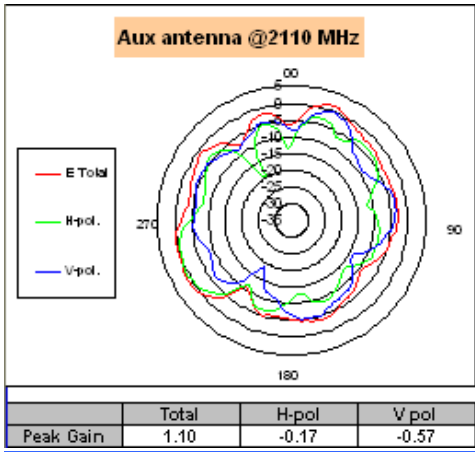


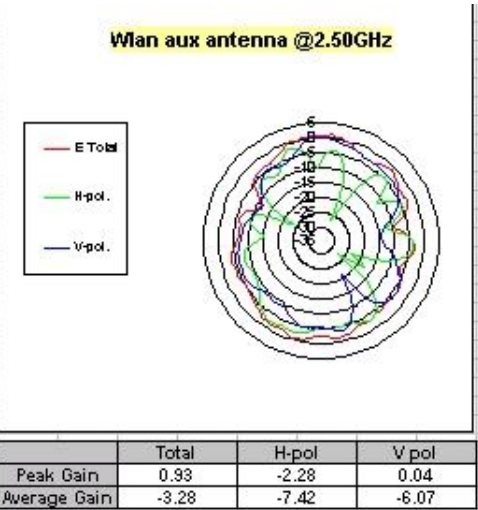
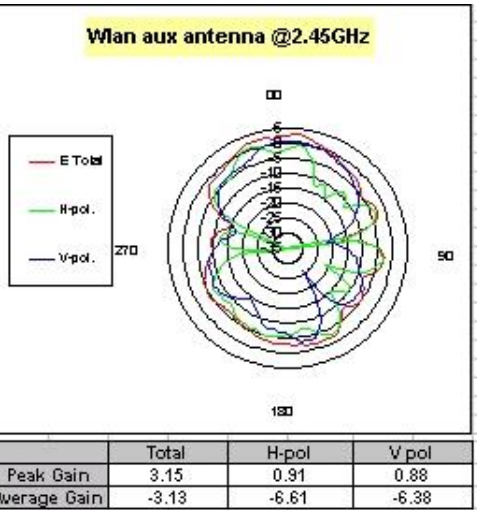
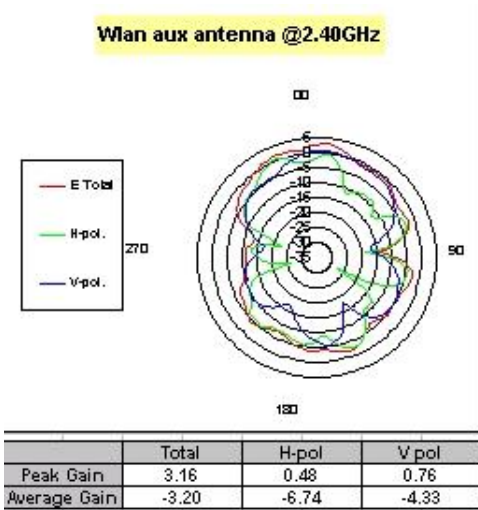
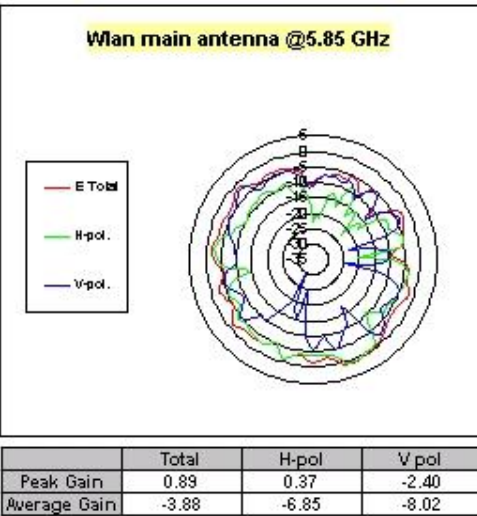
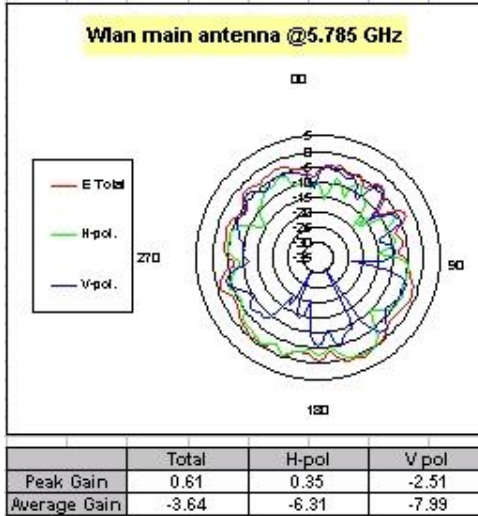
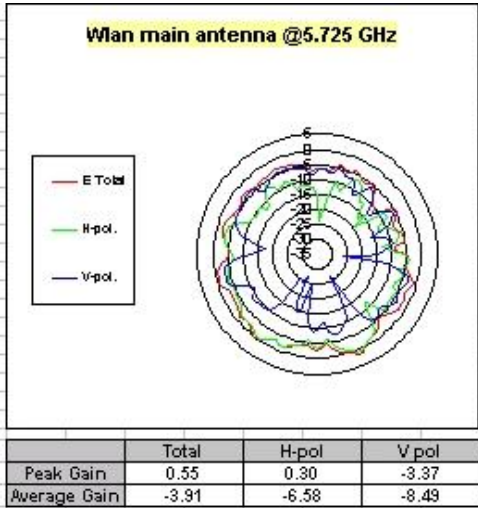
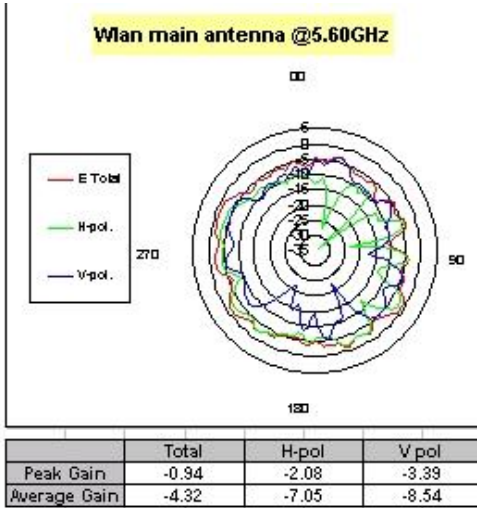
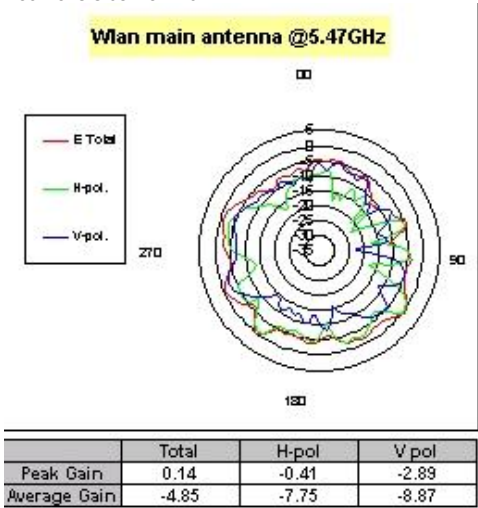
	Total	H-pol	V pol
Peak Gain	1.71	1.20	-2.22

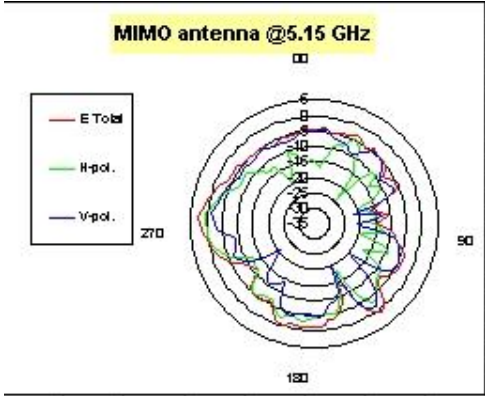


	Total	H-pol	V pol
Peak Gain	1.76	1.25	-1.96

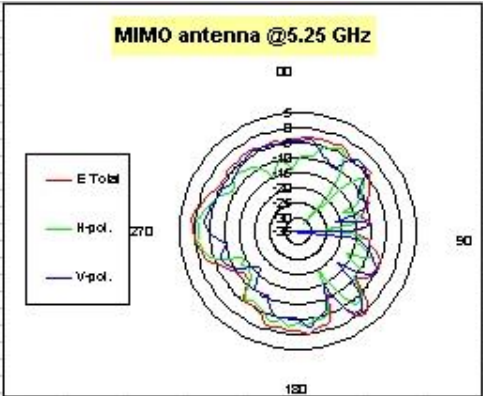




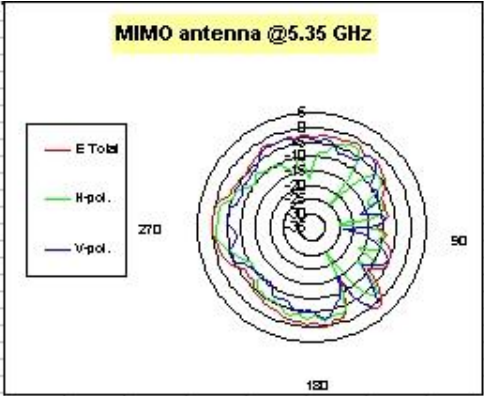




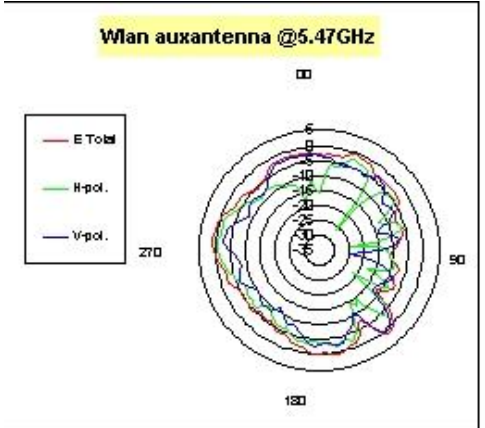
	Total	H-pol	V pol
Peak Gain	2.34	0.36	-1.71
Average Gain	-4.31	-8.09	-7.24



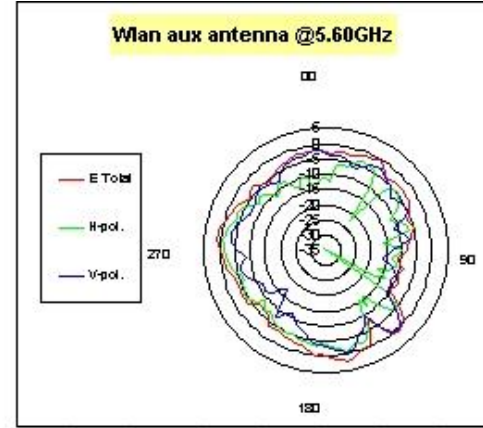
	Total	H-pol	V pol
Peak Gain	1.13	-0.89	-0.44
Average Gain	-4.05	-7.63	-7.08



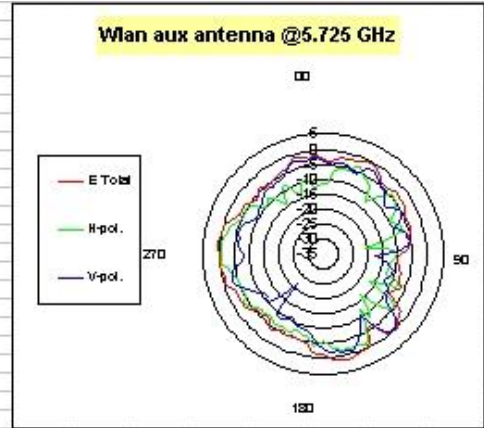
	Total	H-pol	V pol
Peak Gain	1.06	-1.23	0.04
Average Gain	-3.65	-7.33	-6.69



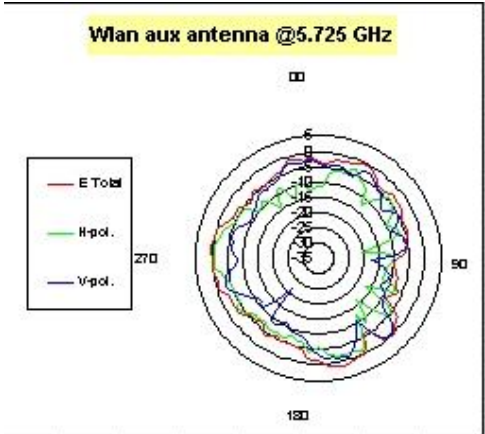
	Total	H-pol	V pol
Peak Gain	0.77	-1.08	0.33
Average Gain	-3.54	-7.07	-6.66



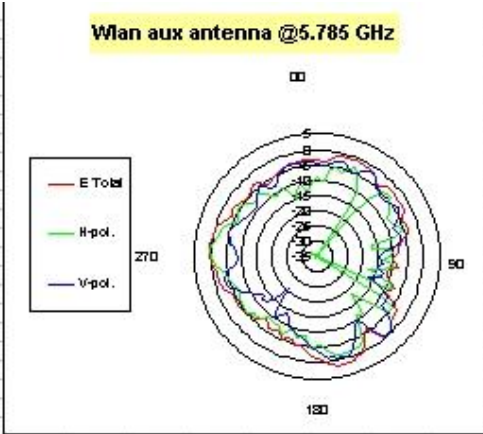
	Total	H-pol	V pol
Peak Gain	1.83	-1.25	0.33
Average Gain	-3.22	-6.83	-6.22



	Total	H-pol	V pol
Peak Gain	1.17	-1.01	-0.71
Average Gain	-3.42	-6.91	-6.53



	Total	H-pol	V pol
Peak Gain	1.17	-1.01	-0.71
Average Gain	-3.42	-6.91	-6.53



	Total	H-pol	V pol
Peak Gain	1.56	-0.22	-0.67
Average Gain	-3.63	-7.24	-6.68

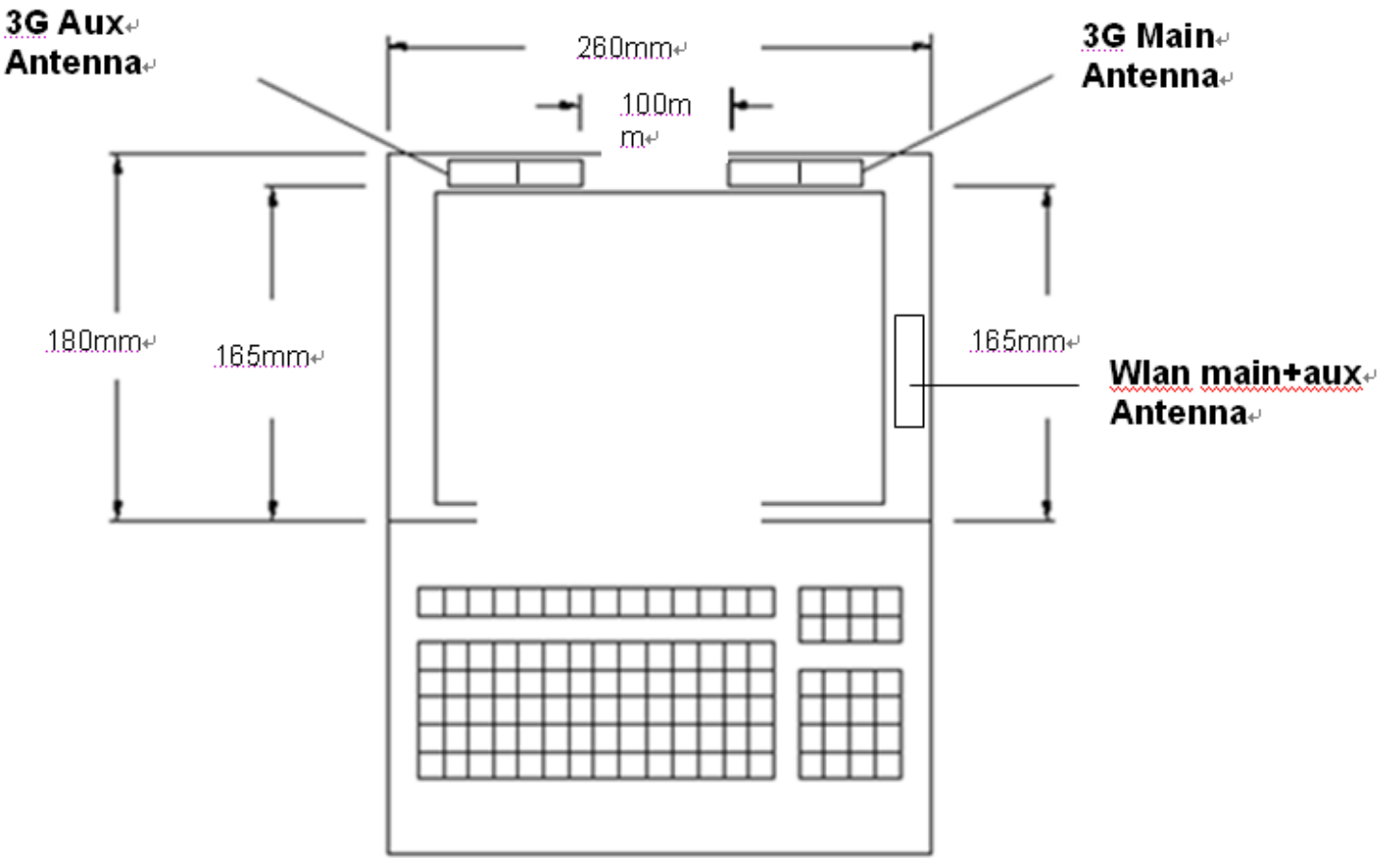
Section 4. Host Platform Information

OEM / ODM Host platform: (XXXXXXX) platform correlated to antenna data
Rating Label Photo:

Custom	OEM/ODM		Antenna Vendor	
Model Name	Model Name	Part No.	Manufacturer	Part No.
KAV60	KAV60	WWAN Main: DC33000KB20	COMPAL ELECTRONICS INC	WWAN Main: Antenna 81.EJT15.G61
		WWAN Aux: DC33000KB30		WWAN Aux Antenna 81.EJT15.G62
		WLAN,MAIN+AUX: DC33000KB90		WLAN,MAIN+AUX 81.EJT15.GAH

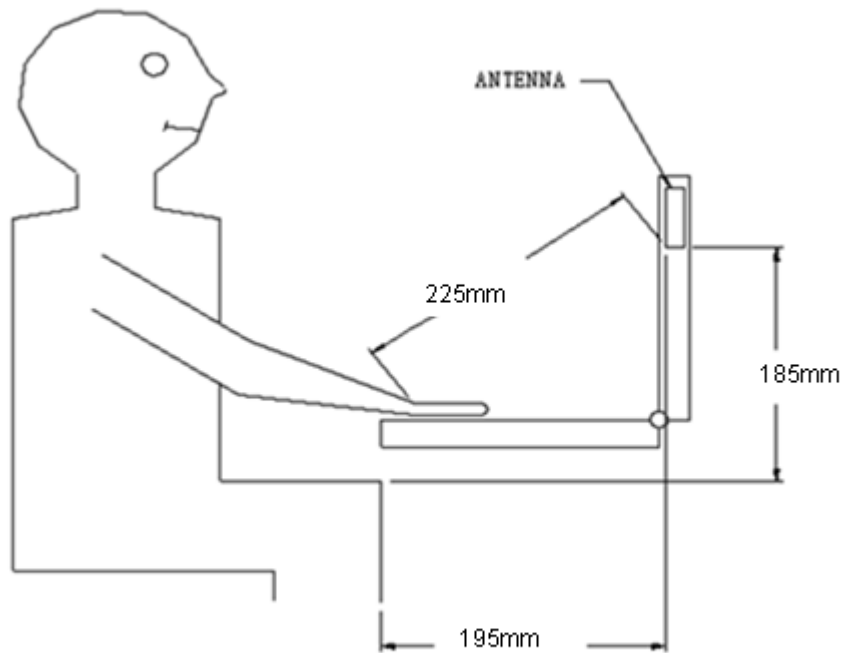
Section 5. Antenna Host Platform Location Information

Include a **dimensioned photo or dimensioned drawing** of Tx1, Tx2 and Tx3 antenna placements. (Not applicable for receive-only antenna e.g. Rx3 for 4965AGN)



Section 6. Antenna dimensional information for SAR evaluation

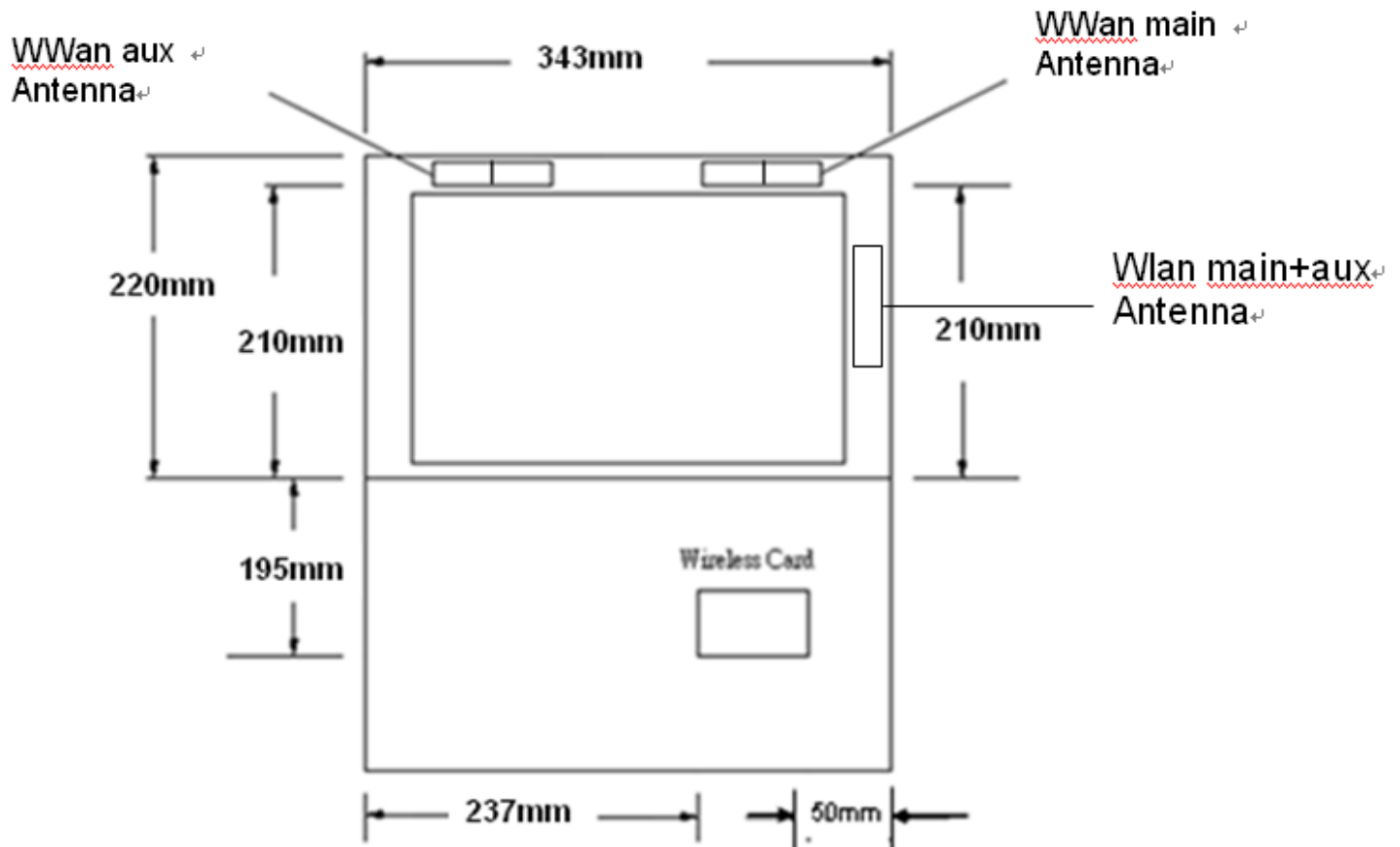
Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between the transmit antennas and the user (excluding hands, wrist, feet, lap/ thigh, and ankle)



Section 7. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between all WLAN transmit antennas and other co-located radiator transmit antenna such as Bluetooth, WWAN,..

(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.

	Local company name	Contact name	Phone number	FAX Number	e-Mail Address	Notes
Argentina						
Brazil						
Indonesia						
Israel						
Malaysia						
Mexico						
Singapore						Telecommunication Equipment Dealer License Required
South Africa						
USA, Canada						