Antenna Regulatory Information

Antenna Product Type	WWAN Main/ WWAN Aux Antenna
Model Name / Number	SZ900 / SZ901
ODM Model Name/ Number	SZ900 / SZ901
Revision	A01
Provided Date	2009/08/25
Manufacturer Part No	WDAN-1BQBK302-1F (WWAN Main)
ODM Part No	

Company	HON HAI PRECISION IND. Co., Ltd
Address	No.2, Zihyou St., Tucheng City, Taipei County 236, Taiwan
Address	
Tel	+886-2-22683466
FAX	+886-2-22686220
Web	http://www.foxconn.com

1. Specifications

Antenna Specifications

Antenna Type(Ma	aterial, Technology)	Metal, Modified PIFA		
Antenna Model N	lumber	WDAN-1BQBK302-1F (WWAN Main)		
Operating Freque	ency Range	Low Band: 824MF	Hz ~ 960MHz	
operating Freque	noy Kange	High Band: 1710MHz ~ 2170MHz		
	Low Band 824 ~ 960MHz	WWAN Main	-0.29 dBi	
Peak Gain (dBi)	LOW Dalid 024 ~ 900Will2			
reak Gaill (GBI)	High Dand 4740 2470MHz	WWAN Main	3.45 dBi	
	High Band 1710 ~2170MHz		-	
Radio	Manufacturer/Type	Foxconn / mini RF connector		
Connector	Part Number	SGX0001		
Mid-Line Connec	tor Type (If Applicable)	N/A		

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

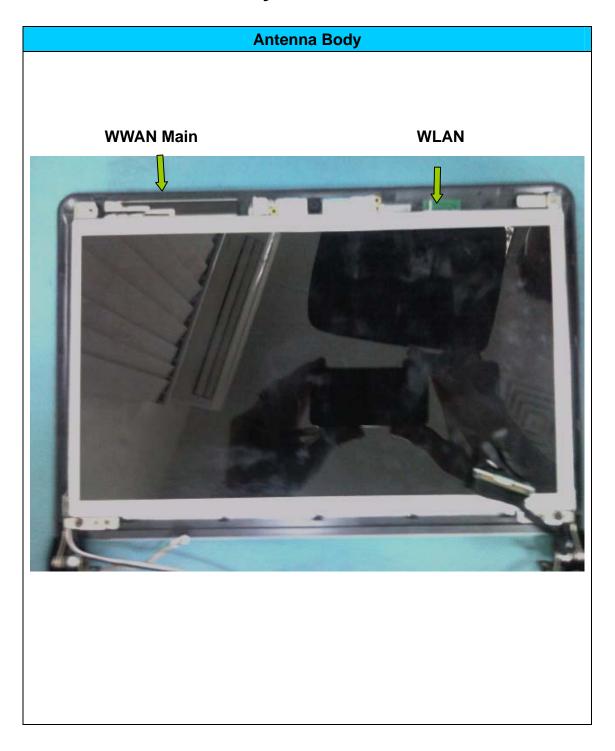
Cable Specifications

Cable Parameters		WWAN Main		WWAN Aux	
Length (mm)		435			
Loss (Including	(Connectors)	0.9GHz	0.805dB	0.9GHz	
Loss (including	Connectors	2.0GHz	1.203dB	2.0GHz	
	Color	White			
	Diameter	1.13 mm (low lo	ss)		
Description	Manufacturer	Foxconn			

2. Antenna Assembly

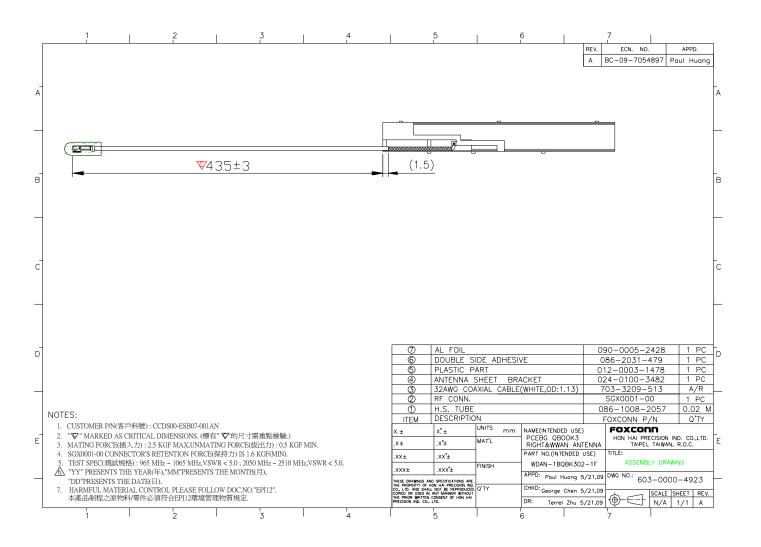
Antenna Body **WWAN Main WWAN AUX**

3. Antenna Assembly Installed in The Notebook



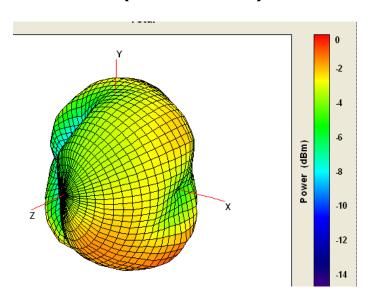
4. Mechanical Drawing of Antennas

•



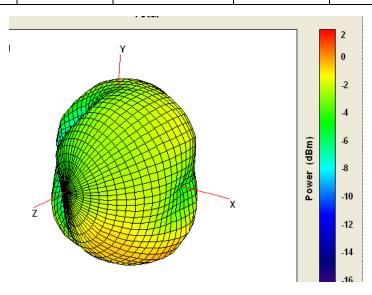
5. Antenna Gain Patterns

Main Antenna -1 (Low Band)



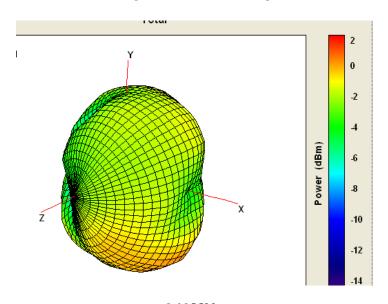
824MHz

824MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-3.61	-1.79	-0.70	-7.00	-4.85	-2.78
YZ Plane	-8.00	-2.78	-2.43	-13.79	-6.10	-5.41
ZX Plane	-2.80	-4.53	-1.67	-4.90	-9.88	-3.70



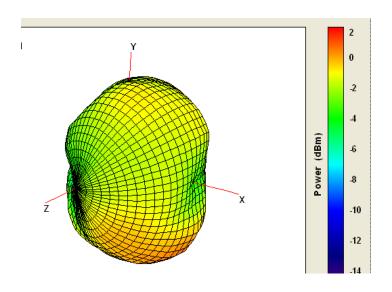
836MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-2.81	-1.01	0.03	-6.49	-4.26	-2.22
YZ Plane	-7.86	-2.02	-1.74	-13.81	-5.50	-4.90
ZX Plane	-2.40	-3.42	-1.11	-4.29	-9.00	-3.03

Main Antenna -2 (Low Band)



849MHz

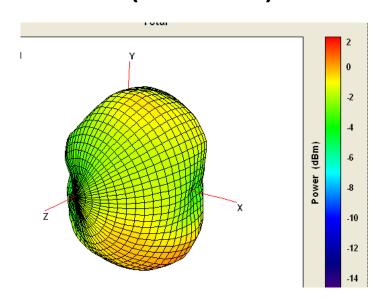
849MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-2.35	-0.44	0.57	-6.05	-3.93	-1.86
YZ Plane	-7.81	-1.69	-1.41	-13.90	-5.17	-4.63
ZX Plane	-2.28	-2.45	-0.72	-3.86	-8.32	-2.53



869MHz

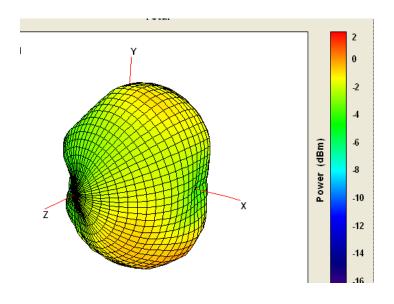
869MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-2.39	-0.29	0.86	-5.68	-3.88	-1.68
YZ Plane	-7.83	-1.50	-1.26	-13.96	-4.99	-4.47
ZX Plane	-1.68	-1.99	-0.17	-3.50	-8.02	-2.19

Main Antenna -3 (Low Band)



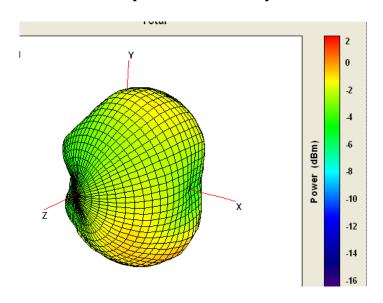
880MHz

880MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-2.35	-0.54	0.72	-5.70	-4.08	-1.81
YZ Plane	-8.17	-1.47	-1.28	-14.15	-5.06	-4.55
ZX Plane	-1.69	-2.16	-0.26	-3.63	-8.17	-2.32

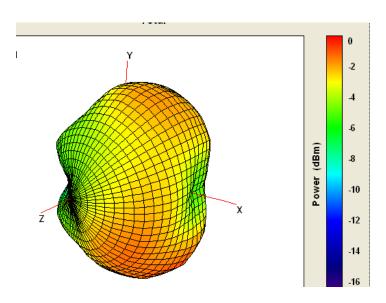


894MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-2.26	-1.09	0.33	-5.92	-4.61	-2.21
YZ Plane	-8.91	-1.54	-1.37	-14.50	-5.39	-4.89
ZX Plane	-2.04	-2.61	-0.59	-4.04	-8.58	-2.73

Main Antenna -4 (Low Band)



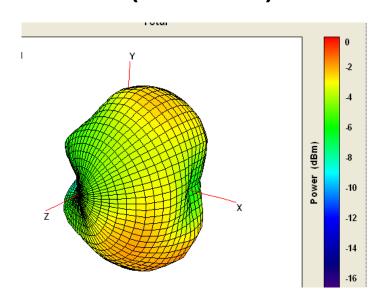
900MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-2.37	-1.49	0.04	-6.12	-5.01	-2.52
YZ Plane	-9.25	-1.72	-1.57	-14.64	-5.71	-5.18
ZX Plane	-2.36	-2.99	-0.87	-4.34	-8.90	-3.03



915MHz

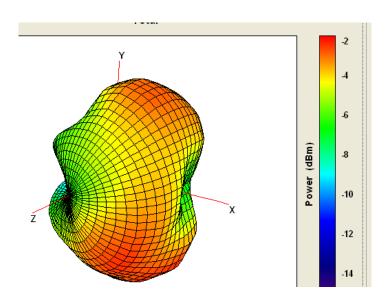
	915MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
	XY Plane	-2.72	-2.46	-0.64	-6.62	-6.02	-3.30
Ī	YZ Plane	-9.96	-2.21	-2.09	-14.78	-6.55	-5.94
Ī	ZX Plane	-3.05	-3.86	-1.58	-4.97	-9.69	-3.71

Main Antenna -5 (Low Band)



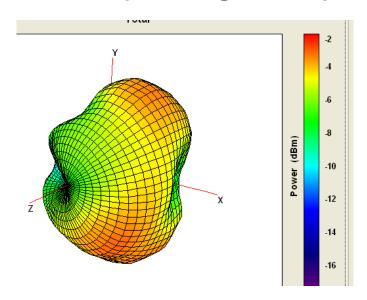
925MHz

925MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-3.16	-3.29	-1.30	-7.13	-6.86	-3.98
YZ Plane	-10.47	-2.83	-2.70	-14.89	-7.30	-6.60
ZX Plane	-3.70	-4.61	-2.25	-5.55	-10.35	-4.30



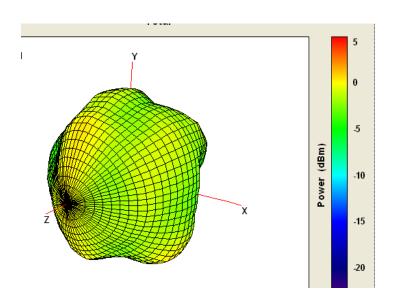
940MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-3.52	-4.28	-1.63	-7.64	-7.76	-4.69
YZ Plane	-11.04	-3.54	-3.36	-14.89	-8.03	-7.22
ZX Plane	-4.58	-5.35	-3.05	-6.20	-11.02	-4.96

Main Antenna -6 (Low/High Band)



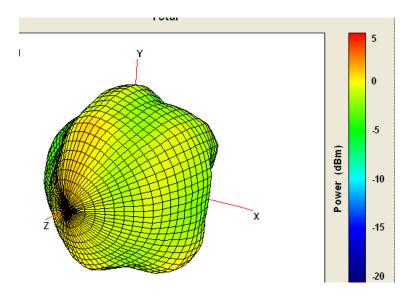
960MHz

960MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-3.61	-5.30	-1.63	-8.32	-8.65	-5.47
YZ Plane	-11.92	-4.39	-4.15	-15.25	-8.67	-7.81
ZX Plane	-5.44	-6.23	-3.77	-7.00	-11.78	-5.75



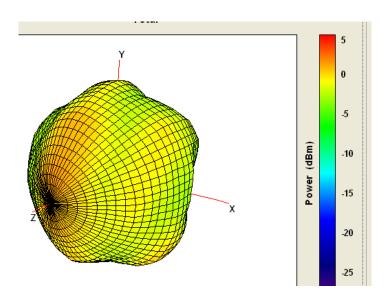
1710MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-0.97	-3.87	0.08	-5.40	-8.74	-3.74
YZ Plane	-10.34	0.31	0.34	-15.97	-4.81	-4.49
ZX Plane	0.54	-12.36	0.57	-2.90	-18.30	-2.78

Main Antenna -7 (High Band)



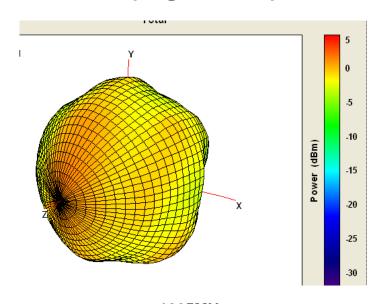
1750MHz

1750MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-0.73	-3.46	0.40	-4.85	-8.42	-3.27
YZ Plane	-10.31	1.05	1.06	-15.69	-4.37	-4.06
ZX Plane	1.06	-12.36	1.08	-2.35	-17.89	-2.23



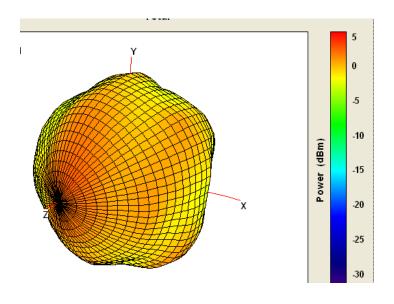
1785MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-0.64	-3.48	0.16	-4.81	-8.62	-3.30
YZ Plane	-10.62	1.20	1.21	-15.70	-4.46	-4.14
ZX Plane	1.44	-12.10	1.46	-2.29	-16.98	-2.15

Main Antenna -8 (High Band)



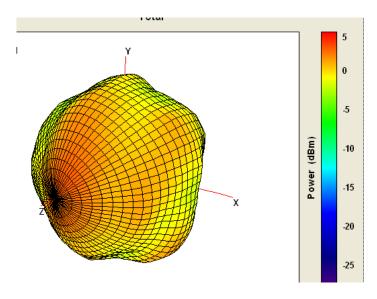
1805MHz

1805MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-0.66	-3.47	0.15	-4.83	-8.65	-3.32
YZ Plane	-10.41	1.49	1.50	-15.56	-4.30	-3.99
ZX Plane	1.57	-10.71	1.59	-2.22	-15.83	-2.04



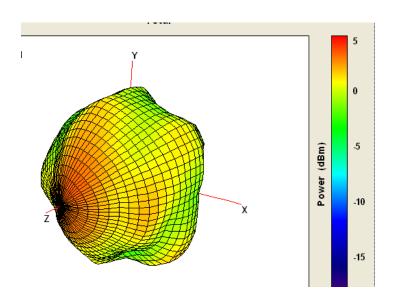
1840MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	0.00	-2.79	1.34	-4.04	-7.63	-2.46
YZ Plane	-9.38	2.36	2.36	-14.18	-3.30	-2.96
ZX Plane	2.36	-9.06	2.36	-1.48	-14.45	-1.27

Main Antenna -9 (High Band)



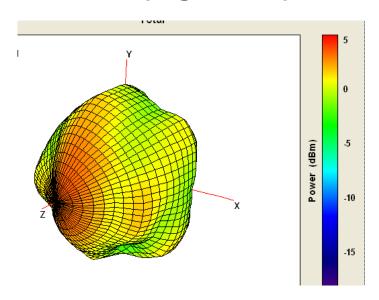
1850MHz

1850MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	0.09	-2.58	1.45	-3.96	-7.49	-2.36
YZ Plane	-9.13	2.62	2.62	-13.88	-3.05	-2.71
ZX Plane	2.62	-8.82	2.62	-1.34	-14.09	-1.12



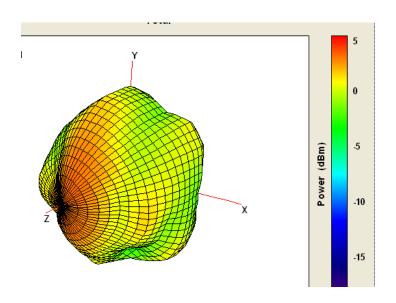
1880MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	0.14	-2.20	1.59	-3.86	-7.21	-2.21
YZ Plane	-8.63	3.24	3.24	-13.37	-2.50	-2.16
ZX Plane	3.24	-6.98	3.24	-1.06	-12.80	-0.78

Main Antenna -10 (High Band)



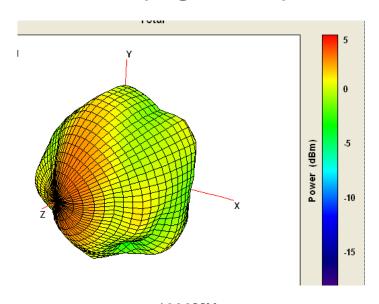
1910MHz

1910MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	0.31	-2.22	1.26	-3.94	-7.31	-2.30
YZ Plane	-7.86	3.45	3.46	-13.34	-2.41	-2.07
ZX Plane	3.45	-5.84	3.46	-0.83	-12.22	-0.53



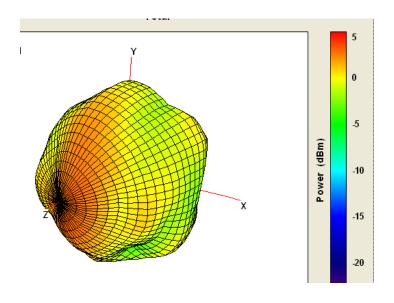
1920MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	0.25	-2.34	0.84	-4.09	-7.55	-2.48
YZ Plane	-7.98	3.17	3.18	-13.51	-2.64	-2.30
ZX Plane	3.17	-6.09	3.18	-0.93	-12.45	-0.63

Main Antenna -11 (High Band)



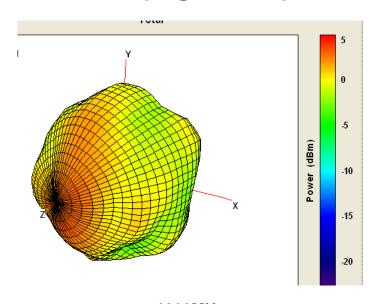
1930MHz

1930MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	0.18	-2.47	0.75	-4.26	-7.70	-2.64
YZ Plane	-8.24	3.04	3.05	-13.70	-2.75	-2.41
ZX Plane	3.04	-6.30	3.05	-1.06	-12.53	-0.76



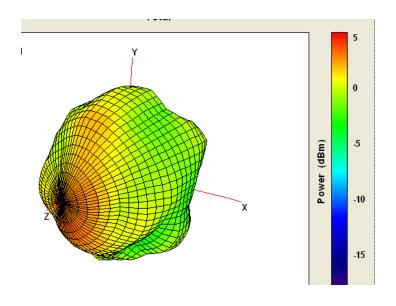
	1950MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
	XY Plane	-0.01	-2.88	0.54	-4.58	-7.93	-2.93
ĺ	YZ Plane	-8.55	2.89	2.90	-13.91	-2.88	-2.55
ĺ	ZX Plane	2.92	-6.50	2.97	-1.32	-12.33	-0.99

Main Antenna -12 (High Band)



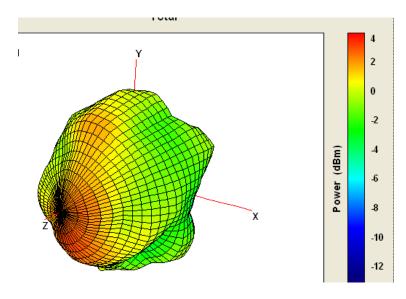
1960MHz

1960MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-0.16	-3.00	0.38	-4.71	-7.86	-2.99
YZ Plane	-8.83	2.97	2.99	-13.97	-2.77	-2.45
ZX Plane	2.98	-6.14	3.04	-1.41	-11.94	-1.04



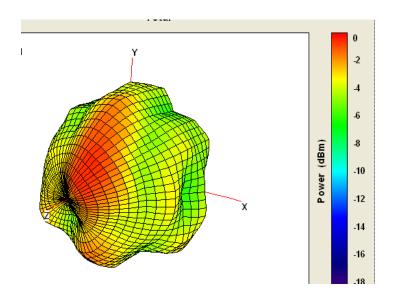
1980MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-0.43	-3.42	-0.09	-4.77	-7.76	-3.00
YZ Plane	-9.24	2.84	2.89	-13.99	-2.71	-2.40
ZX Plane	3.14	-5.27	3.19	-1.49	-11.27	-1.06

Main Antenna -13 (High Band)



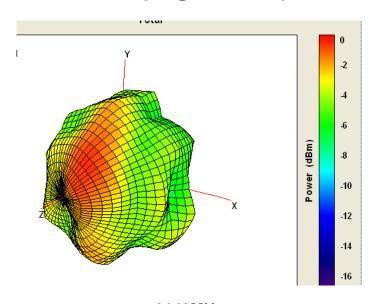
1990MHz

1990MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-0.42	-3.95	-0.08	-4.93	-7.89	-3.15
YZ Plane	-9.98	2.50	2.56	-14.08	-2.94	-2.62
ZX Plane	2.93	-5.18	2.98	-1.69	-11.23	-1.23

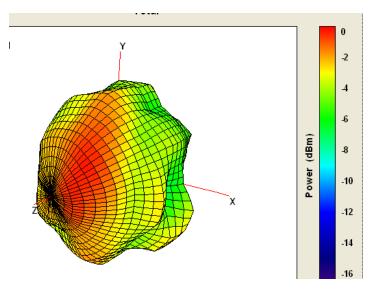


2110MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-3.47	-4.81	-1.63	-7.44	-9.78	-5.44
YZ Plane	-12.36	-1.48	-1.42	-16.93	-6.47	-6.10
ZX Plane	-2.47	-10.95	-2.15	-6.01	-14.57	-5.44

Main Antenna -14 (High Band)



2140MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-3.60	-5.37	-1.63	-7.76	-10.12	-5.77
YZ Plane	-12.36	-1.44	-1.39	-17.16	-6.76	-6.38
ZX Plane	-2.71	-11.87	-2.42	-6.31	-14.92	-5.75



2170MHz

2170MHz	H (Peak)	V (Peak)	H+V (Peak)	H (Avg)	V (Avg)	H+V (Avg)
XY Plane	-3.45	-4.97	-1.63	-7.43	-10.15	-5.57
YZ Plane	-12.36	-0.53	-0.47	-17.24	-6.32	-5.98
ZX Plane	-2.03	-11.12	-2.00	-5.67	-14.86	-5.17