

TO QUANTA COMPUTER CORPORATION
SPECIFICATION FOR APPROVAL

CUSTOMER DWG. NO./PART NO: TBD REV.: N/A

DESCRIPTION: RF CABLE ASS'Y

FOXCONN PROD NO: WDAN-Q1KT5002 REV.. AX1

ATTACHMENTS:

- 1. RF CABLE ASSEMBLY DRAWING 315-0900-098
- 2. DESIGN REVIEW FOR MATERIAL LIST... ML-098
- 3. PART DRAWING SGX0001-00
703-3000-290
014-0000-153
040-0000-389

PLEASE RETURN TO US ONE COPY OF COVER PAGE OF THE
"SPECIFICATION FOR APPROVAL " WITH YOUR APPROVED SIGNATURES.

APPROVED SIGNATURES		



Hon Hai Precision Industry Co., Ltd.

2. TZU YU ST., TU-CHEN, TAIPEI HSIEN, 23606,
TAIWAN, R.O.C
TEL: (02) 2683466 (02) 2681477
TAIWAN, R.O.C
FAX: (02) 2687795 (02) 2683225
TLX: 32349 FOXCONNHH
UNIFORM INVOICE NUMBER: 04541302

Approved by: Sheng Checked by: _____ Prepared by: Paul Zhou

FILE NO.: SFA-098 REVISION NO.: AX1 DATE: Mar 5, 2002

DESIGN REVIEW FOR MATERIAL LIST

QUANTA P/N . TBD

NO : ML-098

DESCRIPTION . RF CABLE ASS'Y

PAGE . 1/1

ITEM	DESCRIPTION	SUPPLIER/AGENCY						QUANTA PART NUMBER	QUANTITY	REMARK
		SUPPLIER	SUPPLIER PART NO.	FOXCONN PART NO.	AVL	UL SUBMIT	CSA SUBMIT			
1	COAXIAL CABLE	HITACHI	OR HCM-40309/1	014-3031-153		N/A	N/A		A/R	
		ACTUONE	703-3000-290	703-3000-290		N/A	N/A		A/R	
2	RF CONN.	FOXCONN	SGX0001-00	SGX0001-00		N/A	N/A		1 PC	
3	PCB (RIGHT)	FOXCONN	040-0002-893	040-0002-893		N/A	N/A		1 PC	

APPROVED BY: Sheng Tai 3/6/2002

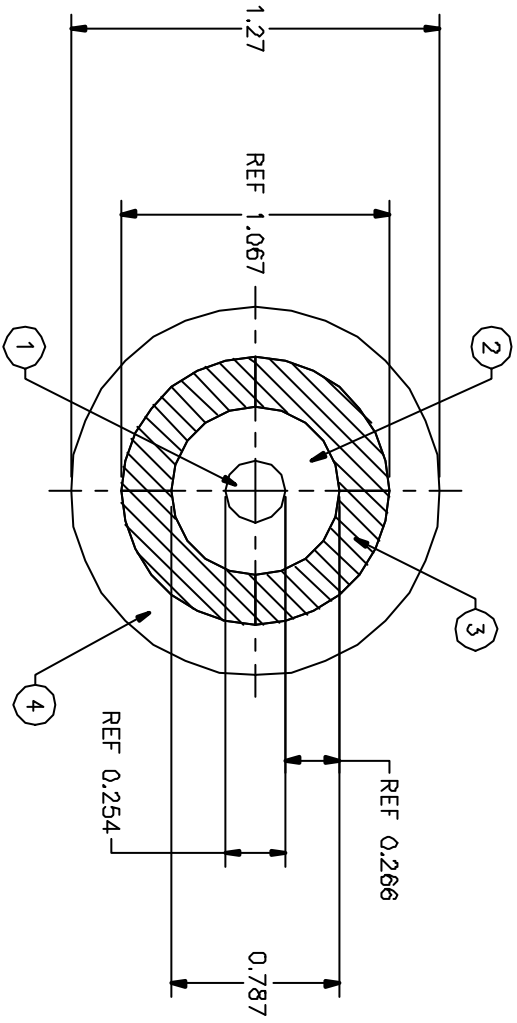
CHECKED BY: _____

PREPARED BY: Paul Zhou 3/5/2002

REV	ECN No.	APPL.	DATE
A	MC-01-0847	VINCENT	3/28/07
B	MC-01-0847	ALLEN	4/13/07
C	MC-01-1942		

ELECTRICAL		
IMPEDANCE	50	ohms
CAPACITANCE	30.5	pf/ft
CONDUCTOR RESISTANCE	860	ohms/KM
FREQUENCY (MHz)	ATTENUATION (dB/10ft)	
500	3	
1000	5	
2000	8	
3000	10	

RATINGS	
TEMPERATURE:	200°C/105°C
VOLTAGE:	30V
UL STYLE:	1894/1943



NOTES

- 1.PRIMARY INSULATION CONCENTRICITY = 85% MIN
2. NN : JACKET COLOR CODE
 00--BLACK 01-BROWN 02-RED 03-ORANGE
 04-YELLOW 05-GREEN 06-BLUE 07-PURPLE
 08-GRAY 09-WHITE 10-CLEAR 99-NATURAL
- 3 BRAIDING COVERAGE TO BE 95 % MIN.
- 4.DIELECTRIC STRENGTH:1.25KVAC/min
- 5 JACKET CONCENTRICITY = 80% MIN

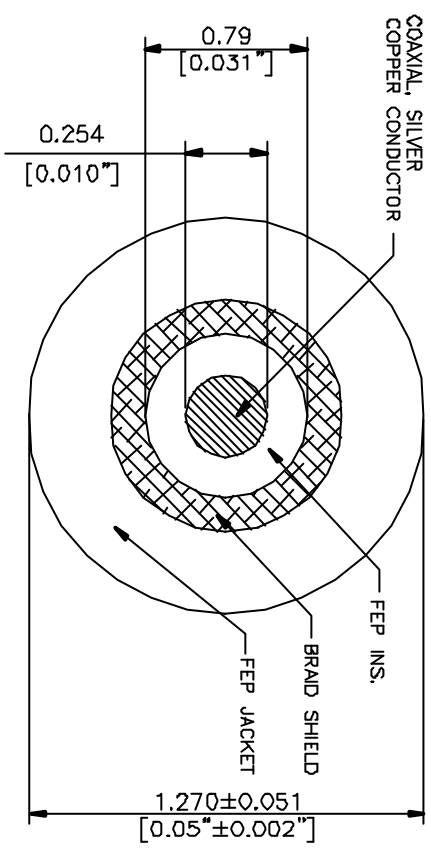
ITEM	QTY	PART No	DESCRIPTION
4	A/R	902-***1-*24	JACKET INSULATION, FEP #
3	A/R	904-44**-616	BENDS/ 44 AWG TINNED PLATED BRANDING
2	A/R	902-***1-*24	PRIMARY INSULATION, FEP #
1	A/R	904-30**-851	30 AWG, SOLID SILVER PLATED COPPER CLAD STEEL

BILL OF MATERIALS		UNITS		MATERIALS	
		mm		FOXC0NN	HON HAI PRESSION IND CO.,LTD
				COAXIAL CABLE	
				703-30NN-290	
				RF CABLE	
				30 AWG, CONSTRUCTION	

THESE DRAWINGS AND SPECS, ARE THE PROPERTY OF HON HAI PRESSION IND CO.,LTD. IF YOU ARE NOT THE ORIGINAL PURCHASER, YOU SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF HON HAI PRESSION IND. CO., LTD.	
DESIGN	CHECKED
DRAWN	
DWG No.	703-3000-290
TITLE	RF CABLE
SCALE	NONE
SHEET	1/1
REV.	C

REV.	EGN. NO	APPD
D	MC00176B	Lot 5/12/06

- NOTES:
1. CAPACTANCE: 30.5 pF/FT.
 2. CONDUCTOR RESISTANCE: 264 OHMS/M' AT 20°C.
 3. CONDUCTOR: 30 AWG,SOLID SP COPPERWELD 0.010" NOM. OD.
 4. INSULATION: 30AWG, FEP, 0.031" OD., 0.0107" AVG WALL
 5. BRAID SHIELD: 30AWG, 6 ENDS 44 AWG TINNED COPPER,95% MIN. COVERAGE.
 6. JACKET: 30AWG, FEP,0.050"±0.002" OD., 0.004" AVG WALL.
 7. TEMPERATURE RATING: -70°C~+200°C.
 8. NO MARKING.



014-3031-153	HITACHI, HCM-40309/1	30AWG	BLACK
FOXCONN P/N	VENDOR & P/N	AWG	JACKET COLOR
X±	X±		
.X±	.X±		
.XX± 0.05	.XX±		
.XXX±	.XXX±		
		FINISH	
		QTY	
		NAME(INTENDED USE)	
		PART NO.(INTENDED USE)	
		APPD: Sheng Tai	
		CHKD:	
		DR:Duke Du 1/17/2001	
		DWG NO: 014-0000-153	
			COAXIAL CABLE
			HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
			SCALE SHEET REV.
			N/A 1/1 D

THESE DIMENSIONS AND SPECIFICATIONS ARE THE PROPERTY OF HON HAI PRECISION IND CO., LTD AND SHALL NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT PERMISSION FROM HON HAI

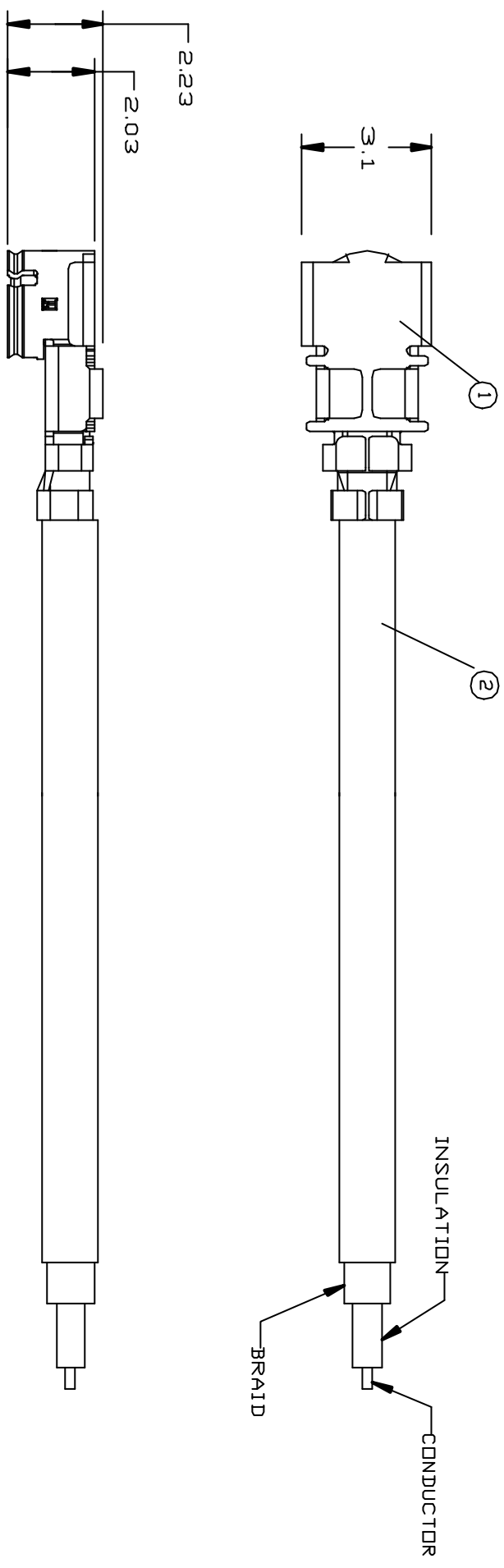
SCALE 10,000

GENERAL SPECIFICATION:

1. CONTACT RESISTANCE: 20 MILLIOHMS MAX.
2. INSULATION RESISTANCE: 500 MEGOHMS MIN.
3. WITHSTAND VOLTAGE 200 V_{AC}
4. CONNECTOR V.S.W.R.: 1.3 OR LESS AT DC TO 3 GHz
5. OPERATION TEMPERATURE: -40°C TO 90°C

RF CABLE ASSEMBLY MATERIAL:

1. CONTACT: COPPER ALLOY, GOLD PLATING
2. HOUSING: THERMOPLASTIC, UL 94V-0 RATED
3. METAL SHELL: COPPER ALLOY, SILVER PLATING
4. CABLE: 30AWG&32AWG SOLID COAXIAL CABLE.
5. PART NO. MATRIX: SGX0001-00



ITEM	PART NAME	FOXCONN PART NO.	EQUIVALENT VENDOR & PART NO.	Q'TY
2	WIRE	703-3000-291	30AWG SLD COAXIAL CABLE	A/R
1	RF CONN.	SGX0001-00	FOXCONN: EP01-025-001	1 PCS

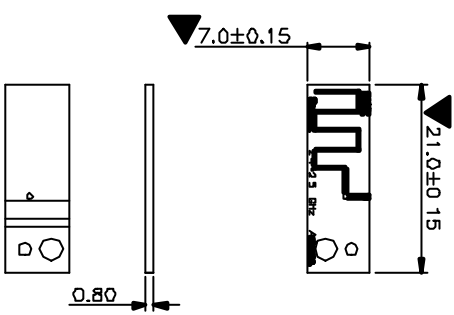
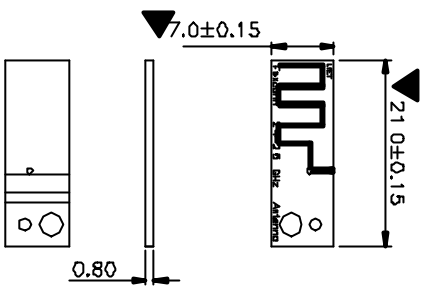
X. ±	X. ±	UNITS	NAME/INTENDED USE	FOXCONN
X ± 0.1	.X ±	MAT'L	SGX0001-00	HON HAI PRECISION IND. CO., LTD. TAPPEI, TAIWAN, R.O.C.
.XX ± 0.1	.XX ±	SEE NOTES	PART NO./INTENDED USE	TITLE: RF CABLE ASSEMBLY
.XXX ±	.XXX ±	FINISH	SGX0001-00	
THESE DIMENSIONS AND SPECIFICATIONS ARE FOR INFORMATION ONLY. THE CUSTOMER SHALL BE RESPONSIBLE FOR THE USE OF THE PARTS IN HIS APPLICATION. THE PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE DIMENSIONS AND SPECIFICATIONS OF THE CUSTOMER'S DRAWING.		Q'TY	APPD: D. KD	DWG NO: EP01-025-001
		CHKD:	DR: D. KD	DATE: 12/2/00

REV.	ECN. NO.	APPD.
X2		D. KD

SCALE SHEET REV.
 10:1 1/1 X2

NOTES:

1. ALL DIMENSIONS SHALL BE INTERPRETED PER ANSI Y14.5M-1982.
2. DIMENSIONS MARKED ▼ SHALL BE CHECKED.
3. PCB'S MATERIAL : FR-4, THICKNESS 0.8MM.



REV.	EQU. NO.	APPD.
X1		

2	040-0002-893	
1	040-0001-893	I
ITEM	P/N	TYPE

FOXCONN
HON HAI PRECISION IND. CO. LTD
TAIPEI, TAIWAN, R.O.C.

TITLE:
PCB ANTENNA

DWG NO.: 040-0000-893

SCALE	SHEET	REV.
N/A	1/1	X1

X.±	X.±	UNITS	mm
x± ±0.2	x±	MATL	
.xx± ±0.1	.xx±	FINISH	
.xxx±	.xxx±		

NAME(INTENDED USE)	Q'TY
FOR QUANTA KTS	
PART NO.(INTENDED USE)	APPD:
	Sheng Tai 3/5/06
CHKD:	DR:
	Paul Zhou 3/5/02

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HON HAI PRECISION IND. CO. LTD. AND SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF HON HAI PRECISION IND. CO. LTD.

NOTES:

▲ UL MARKING.

2. RATING : UL 224, 125°C, 600V, VW-1
CSA, 125°C, 600V, OFT

3. DIELECTRIC STRENGTH : 500 V/MIL

4. VOLUME RESISTIVITY : 10^{14} OHM-CM.

5. TENSILE STRENGTH : 10.3 MPa (1500 psi) MIN..

6. PART NO. MATRIX: 080- A B CC - 620

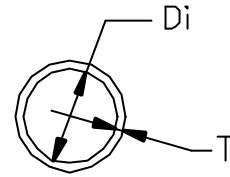
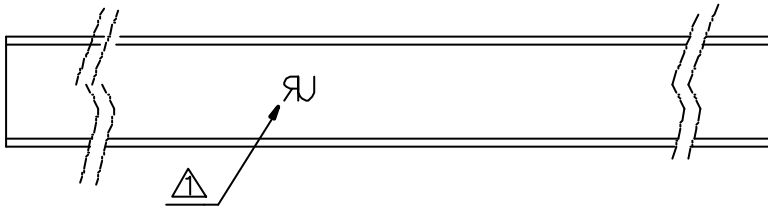
A: EQUIVALENT VENDER & PRODUCT

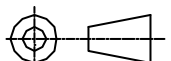
- A=0: SUMITUBE F2-*
- A=1: FAVORTRON FVC-2-*
- A=2: SUMITUBE F32-*
- A=3: CHANGBAO 102-*
- A=4: SUMITUBE F4-*
- A=5: HB T*ø

CC: INSIDE DIMENSION ID.

- B: COLOR
- B=0: BLACK.
- B=1: WHITE.
- B=2: RED.
- B=3: BLUE.
- B=4: GREEN.
- B=5: YELLOW.
- B=6: ORANGE.
- B=7: PURPLE.
- B=8: GRAY


REV.	ECN. NO.	APPD.
A	HC95121	JEFF C. 1/20/95
B	HC96190	C. CHEN 2/7/96
C	HC96670	C. CHEN 5/7/96
D	HC961695	CHARLES
E	HC971231	C. CHEN 6/18/97
F	MC991918	LAI 5/31/99
G	MC993360	LAI 10/16/99
H	MCD01163	LAI 4/11/2000
K		

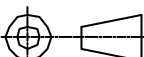


.X±	.X°±	UNITS mm	NAME(INTENDED USE)	FOXCONN HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.						
.X± 0.2	.X°±	MAT'L	PART NO.(INTENDED USE)							
.XX± 0.15	.XX°±	FINISH	APPD: H.C.ZHENG 6/15'2001	TITLE: HEAT SHRINKABLE TUBE						
.XXX±	.XXX°±		Q'TY	CHKD:	DWG NO.: 080-0000-620					
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HON HAI PRECISION IND CO., LTD. AND SHALL NOT BE REPRODUCED COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF HON HAI PRECISION IND CO., LTD.			DR: H.C.ZHENG 6/15'2001	 <table border="1"> <tr> <th>SCALE</th> <th>SHEET</th> <th>REV.</th> </tr> <tr> <td>N/A</td> <td>1/2</td> <td>K</td> </tr> </table>	SCALE	SHEET	REV.	N/A	1/2	K
			SCALE	SHEET	REV.					
N/A	1/2	K								

REV.	ECN.	NO.	APPD

080-**25-620	0.8	0.13	0.4	0.20
080-**24-620	14.0	0.30	7.0	0.64
080-**23-620	1.0	0.20	0.5	0.33
080-**22-620	50.0	0.40	25.0	0.87
080-**21-620	38.0	0.40	19.0	0.87
080-**20-620	30.0	0.40	15.0	0.87
080-**19-620	25.0	0.40	12.5	0.87
080-**18-620	22.0	0.40	11.0	0.77
080-**17-620	20.0	0.35	10.0	0.77
080-**16-620	18.0	0.35	9.0	0.77
080-**15-620	16.0	0.30	8.0	0.69
080-**14-620	12.0	0.25	6.0	0.56
080-**13-620	11.0	0.25	5.5	0.56
080-**12-620	10.0	0.25	5.0	0.56
080-**11-620	9.0	0.25	4.5	0.56
080-**10-620	8.0	0.25	4.0	0.56
080-**09-620	7.0	0.25	3.5	0.56
080-**08-620	6.0	0.25	3.0	0.56
080-**07-620	5.0	0.25	2.5	0.56
080-**06-620	4.0	0.25	2.0	0.44
080-**05-620	3.5	0.25	1.75	0.44
080-**04-620	3.0	0.25	1.50	0.44
080-**03-620	2.5	0.25	1.25	0.44
080-**02-620	2.0	0.25	1.00	0.44
080-**01-620	1.5	0.20	0.75	0.36

Part Number 	Inside Diameter, Di (min.)	Wall Thickness, T (nomi.)	Inside Diameter, Di (max.)	Wall Thickness, T (min.)
	As Supplied		After Shrinkage	

X.±	X°.±	UNITS mm	NAME(INTENDED USE)	FOXCONN			
.X± 0.2	.X°.±	MAT'L	PART NO.(INTENDED USE)	HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.			
.XX± 0.15	.XX°.±			TITLE: HEAT SHRINKABLE TUBE			
.XXX±	.XXX°.±	FINISH	APPD: H.C.ZHENG 6/15'2001	DWG NO.: 080-0000-620			
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HON HAI PRECISION IND. CO., LTD AND SHALL NOT BE REPRDDUCED. COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF HON HAI PRECISION IND CO, LTD		Q'TY	CHKD:		SCALE	SHEET	REV.
			DR: H.C.ZHENG 6/15'2001		N/A	2/2	K

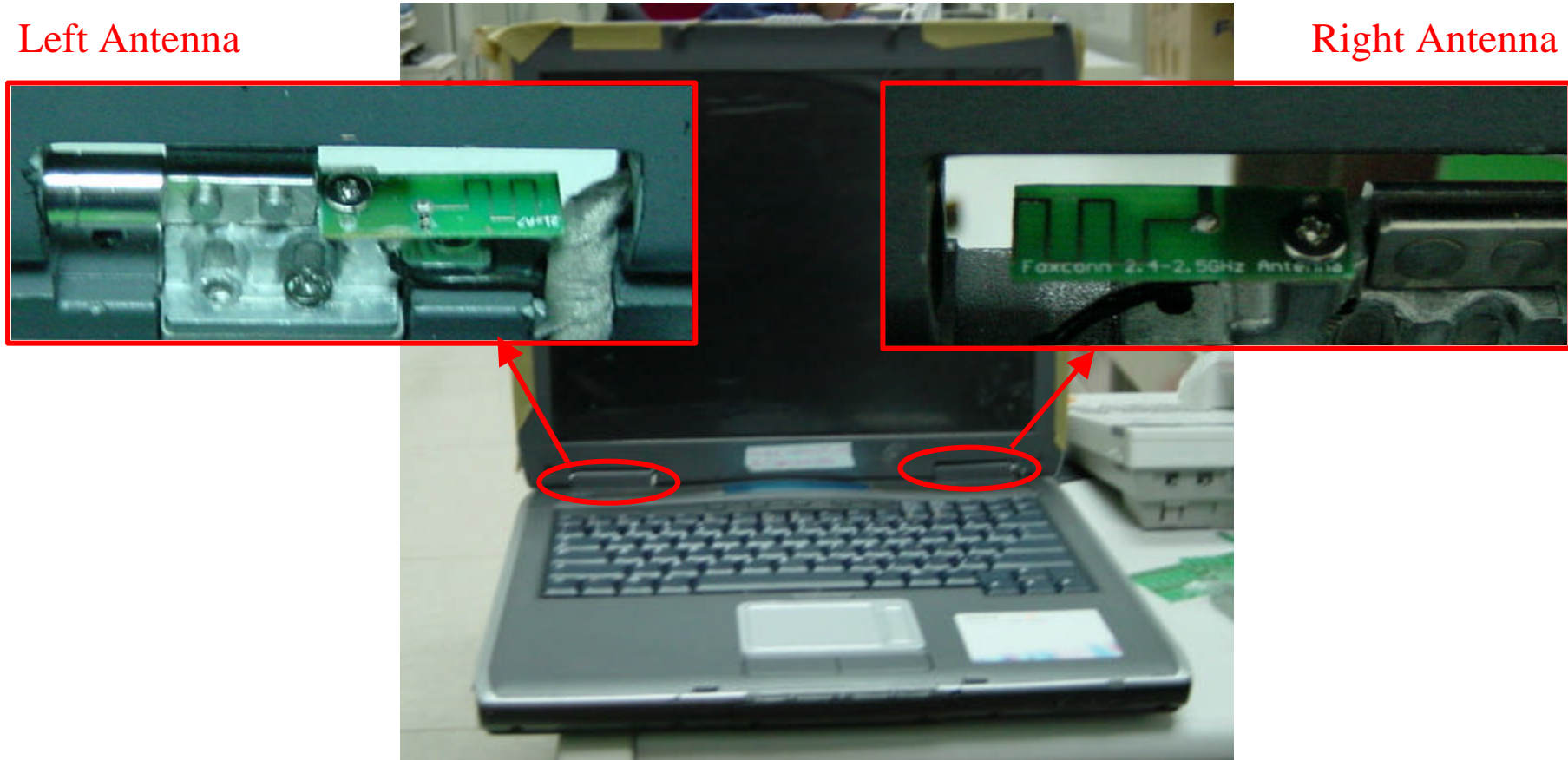
Quanta KT1,5 Antenna Test Report

Sheng Tai

Antenna Location

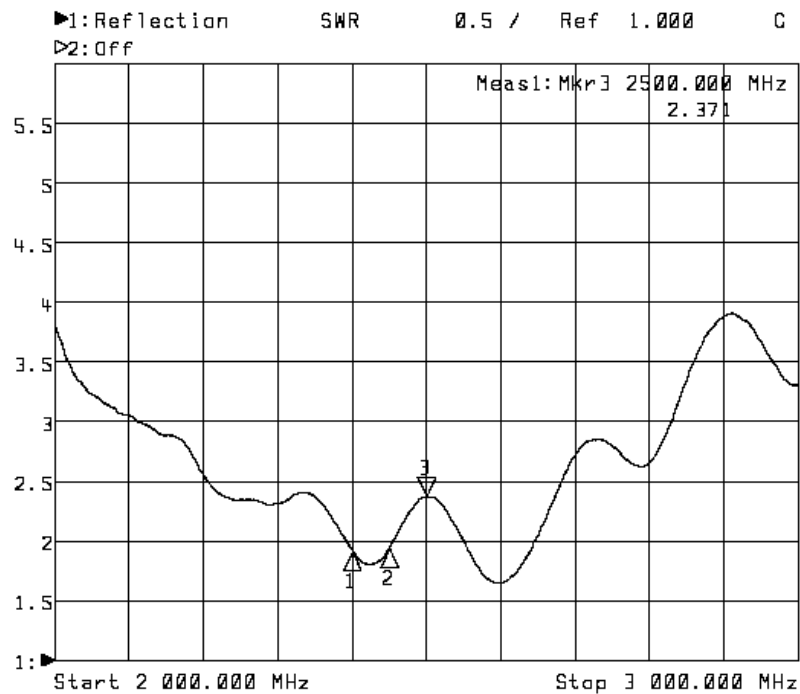
Left Antenna

Right Antenna



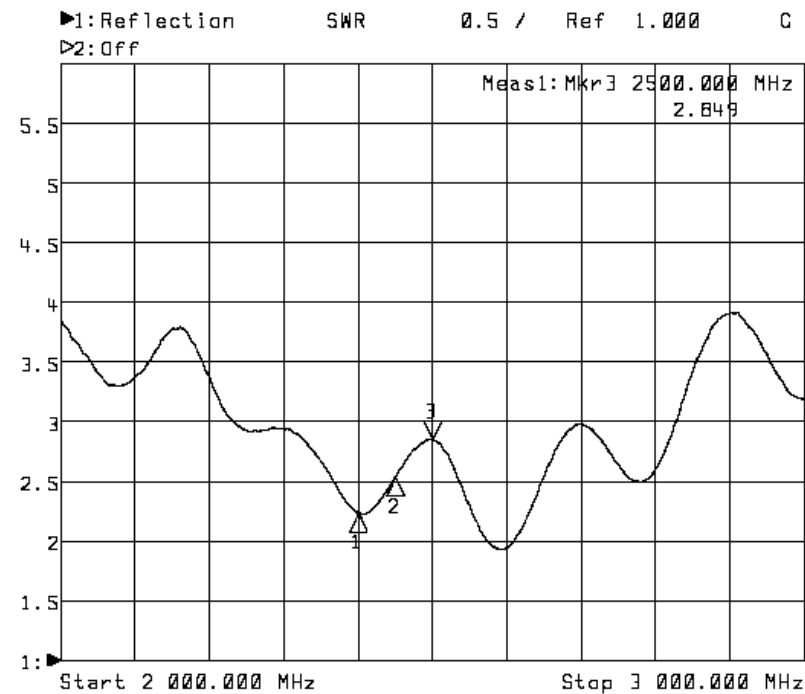
VSWR For Right 14" LCD

1. LCD Open



1: Mkr (MHz)	2: Mkr (MHz)	dB
1: 2400.0000	1.917	
2: 2450.0000	1.940	
3: 2500.0000	2.371	

2. LCD Close

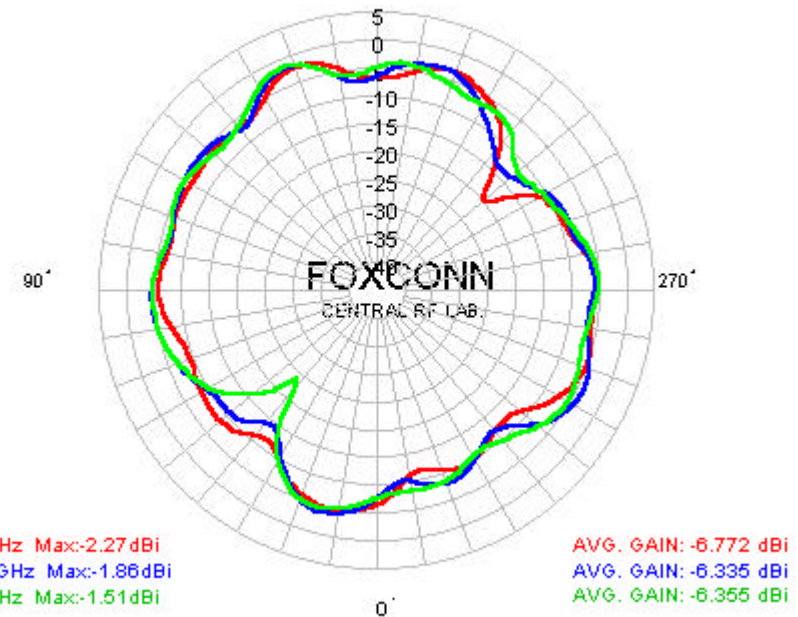
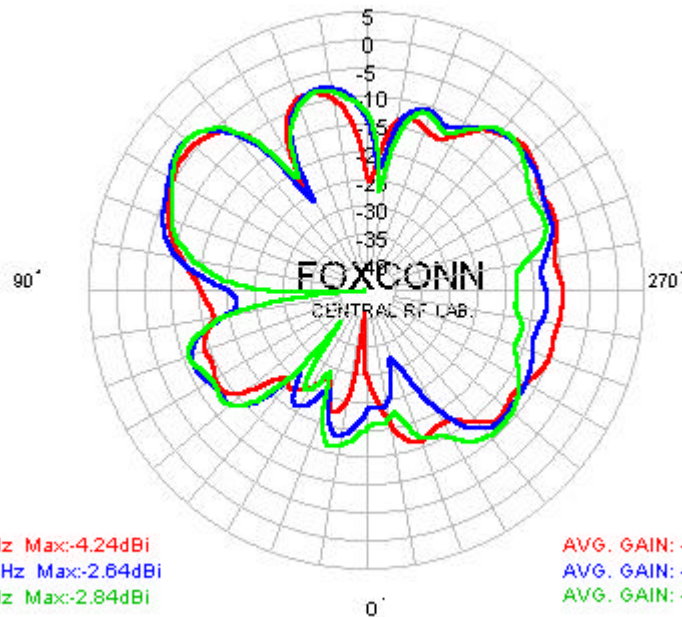


1: Mkr (MHz)	2: Mkr (MHz)	dB
1: 2400.0000	2.234	
2: 2450.0000	2.539	
3: 2500.0000	2.849	

XY Plane Radiation Pattern For Right 14" LCD (Open)

HORIZONTAL POLARIZATION

VERTICAL POLARIZATION



Average Gain For Right 14" LCD Antenna (Open)

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.91	-10.57	-11.13
XY--V	-6.77	-6.33	-6.35
Total Average Gain	-5.35	-4.94	-5.10

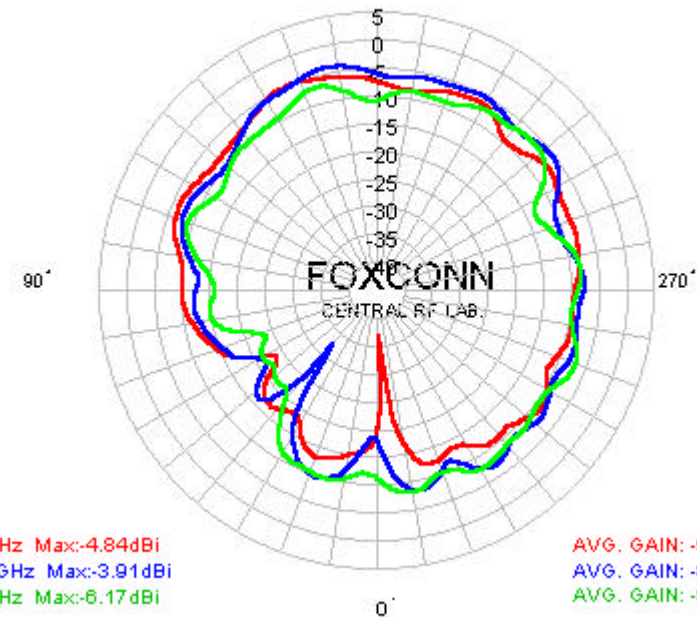
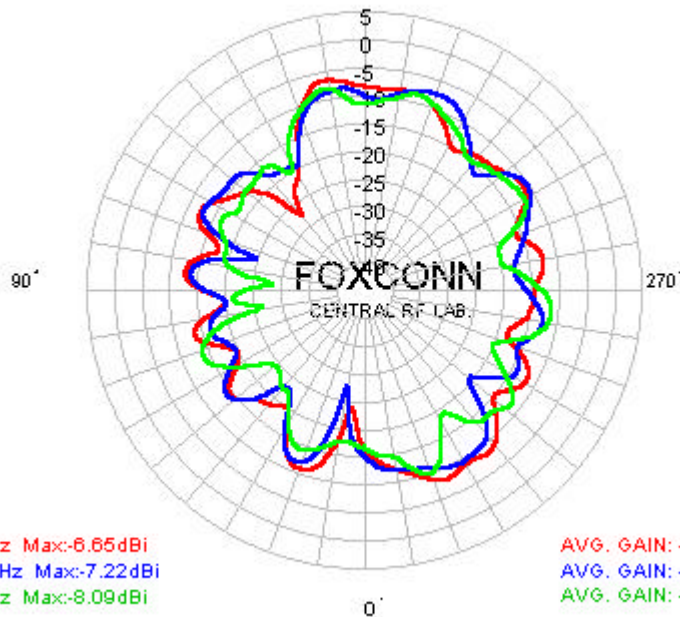
PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.24	-2.64	-2.84
XY--V	-2.27	-1.86	-1.51

XY Plane Radiation Pattern For Right 14" LCD (Close)

HORIZONTAL POLARIZATION

VERTICAL POLARIZATION



Average Gain For Right 14" LCD Antenna (Close)

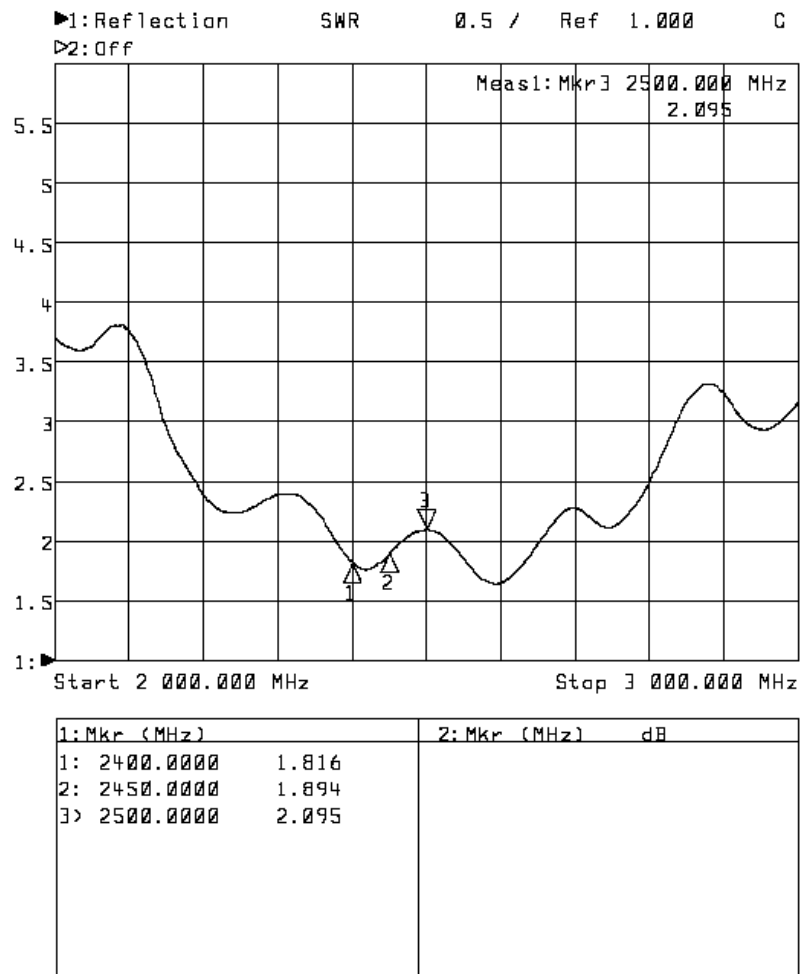
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.35	-12.82	-13.86
XY--V	-9.18	-8.29	-9.68
Total Average Gain	-7.47	-6.98	-8.28

PEAK GAIN

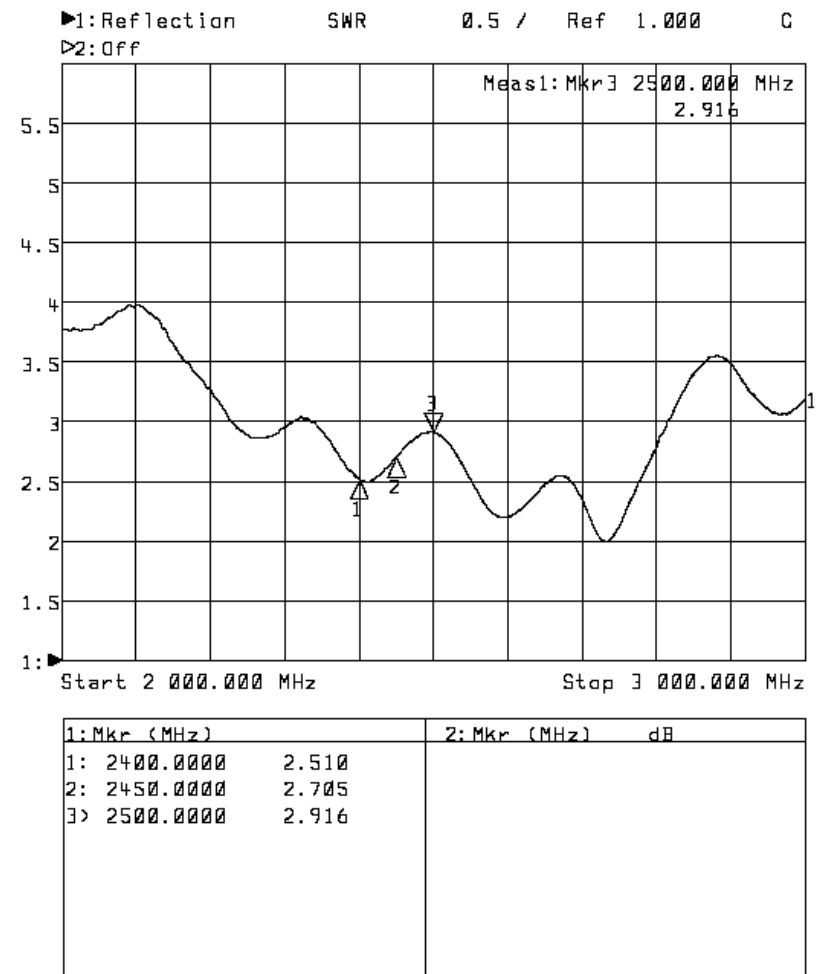
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.65	-7.22	-8.09
XY--V	-4.84	-3.91	-6.17

VSWR For Right 15" LCD

1. LCD Open



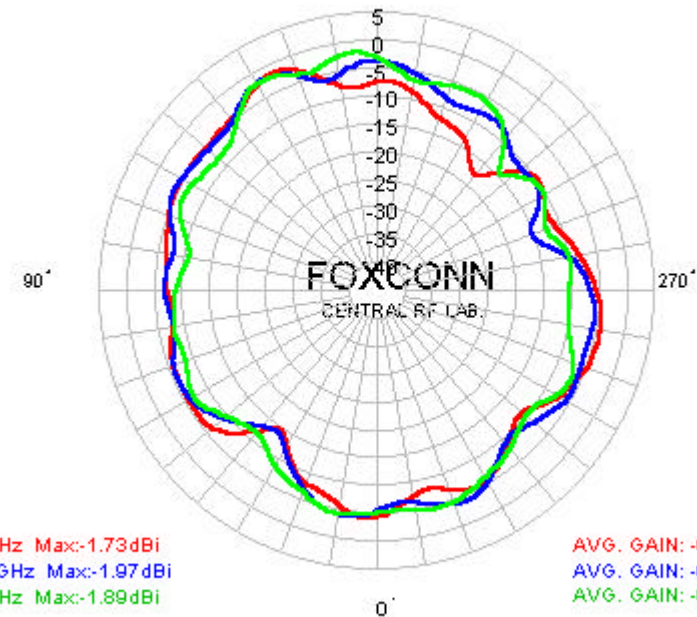
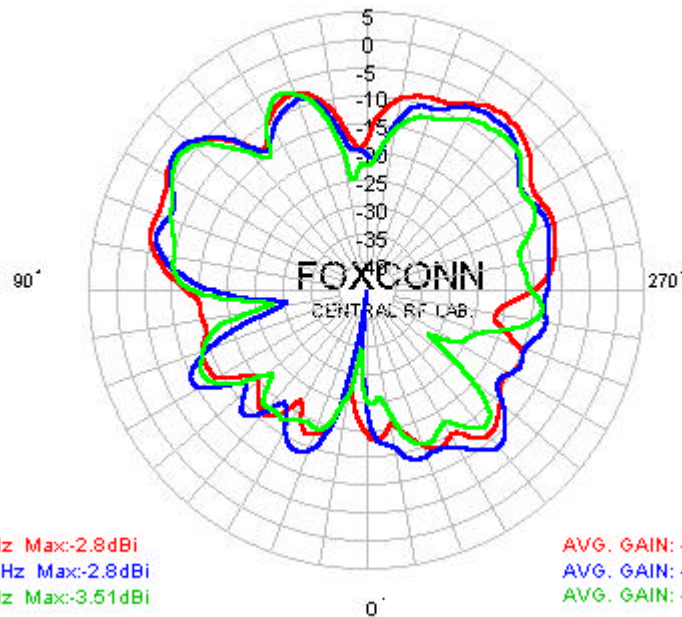
2. LCD Close



XY Plane Radiation Pattern For Right 15" LCD (Open)

HORIZONTAL POLARIZATION

VERTICAL POLARIZATION



Average Gain For Right 15" LCD Antenna (Open)

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-9.92	-10.49	-11.83
XY--V	-6.59	-6.26	-5.55
Total Average Gain	-4.93	-4.87	-4.63

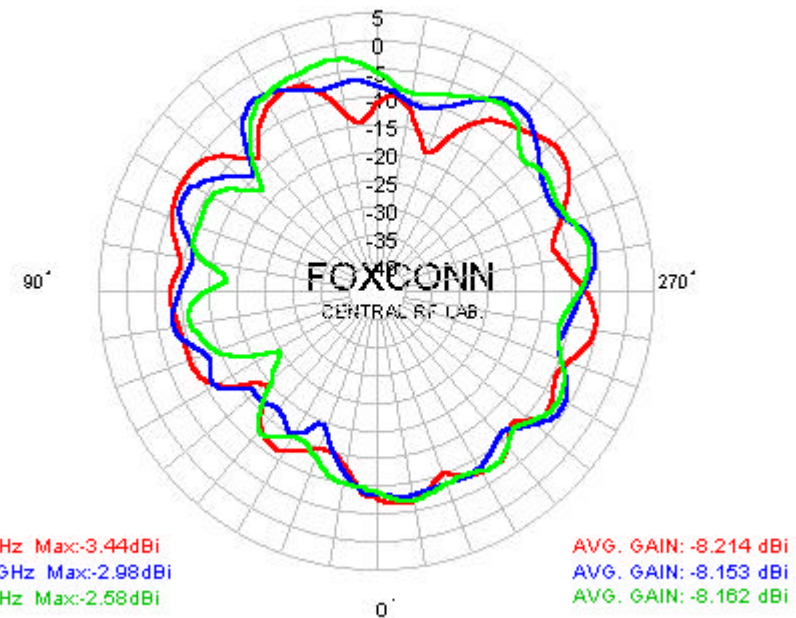
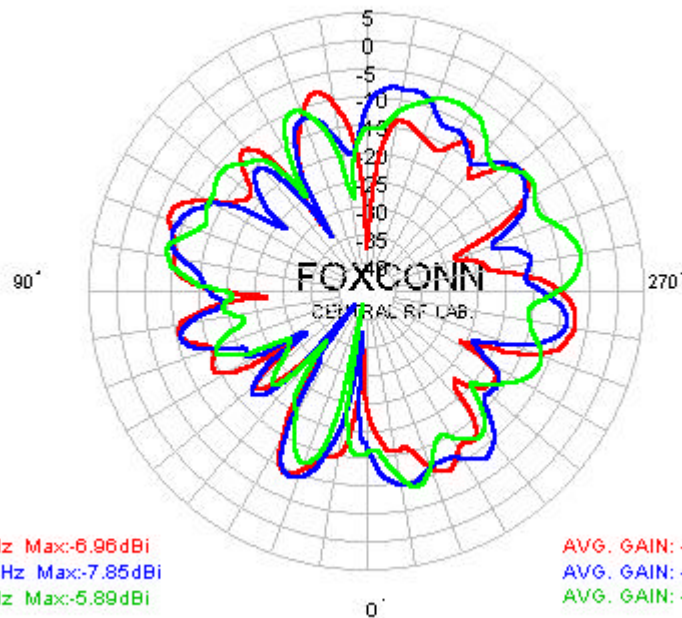
PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.80	-2.80	-3.51
XY--V	-1.73	-1.97	-1.89

XY Plane Radiation Pattern For Right 15" LCD (Close)

HORIZONTAL POLARIZATION

VERTICAL POLARIZATION



Average Gain For Right 15" LCD Antenna (Close)

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.99	-12.68	-12.15
XY--V	-8.21	-8.15	-8.16
Total Average Gain	-6.96	-6.84	-6.70

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.96	-7.85	-5.89
XY--V	-3.44	-2.98	-2.58

Summary Of Total Average Gain

14" LCD Open (Left)				15" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.51	-9.77	-9.98	XY-H	-11.26	-11.55	-12.90
XY--V	-6.70	-6.16	-6.21	XY--V	-6.05	-5.93	-6.03
Total Average Gain	-5.19	-4.59	-4.69	Total Average Gain	-4.91	-4.88	-5.22
14" LCD Close (Left)				15" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-8.34	-8.17	-8.10	XY-H	-8.35	-7.80	-7.23
XY--V	-13.21	-11.87	-11.13	XY--V	-11.55	-10.86	-10.15
Total Average Gain	-7.11	-6.63	-6.35	Total Average Gain	-6.65	-6.06	-5.44
14" LCD Open (Right)				15" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.91	-10.57	-11.13	XY-H	-9.92	-10.49	-11.83
XY--V	-6.77	-6.33	-6.35	XY--V	-6.59	-6.26	-5.55
Total Average Gain	-5.35	-4.94	-5.10	Total Average Gain	-4.93	-4.87	-4.63
14" LCD Close (Right)				15" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.35	-12.82	-13.86	XY-H	-12.99	-12.68	-12.15
XY--V	-9.18	-8.29	-9.68	XY--V	-8.21	-8.15	-8.16
Total Average Gain	-7.47	-6.98	-8.28	Total Average Gain	-6.96	-6.84	-6.70

Summary Of Peak Gain

14" LCD Open (Left)				15" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.57	-4.20	-4.99	XY-H	-4.86	-4.94	-4.74
XY--V	-1.23	-0.95	-6.00	XY--V	-2.10	-1.57	-0.65
14" LCD Close (Left)				15" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.17	-3.32	-3.49	XY-H	-4.25	-2.96	-2.60
XY--V	-7.90	-6.54	-6.48	XY--V	-4.27	-3.93	-6.22
14" LCD Open (Right)				15" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.24	-2.64	-2.84	XY-H	-2.80	-2.80	-3.51
XY--V	-2.27	-1.86	-1.51	XY--V	-1.73	-1.97	-1.89
14" LCD Close (Right)				15" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz	(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.65	-7.22	-8.09	XY-H	-6.96	-7.85	-5.89
XY--V	-4.84	-3.91	-6.17	XY--V	-3.44	-2.98	-2.58