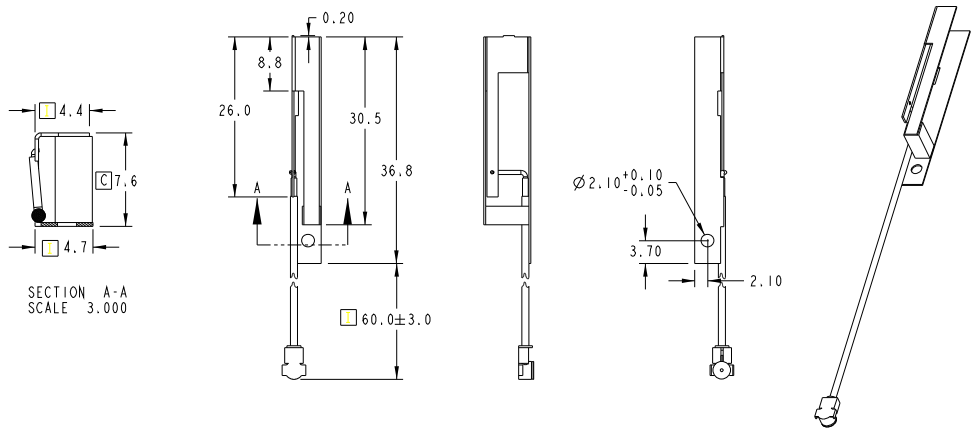
Specification of Centurion Internal, Embedded Multi-band WLAN Antenna V2.1 for MC3090 Handheld PDA

Frequency Range	Multi-Band 802.11b and 802.11g : 2.4~2.5 GHz 802.11a : 4.9~5.875 GHz
Antenna Type	Internal (PIFA), with coaxial cable attachment
Topology	Diversity scheme; Two separate Multi-Band elements - each using a diplexer or equivalent
Matching Network	N/A
Nominal Impedance	50 Ω
VSWR	Maximum 2.2 : 1 Typical 2:1
Gain for All the Planes	802.11g band: Max Peak 2.7 dBi 802.11a band: Max Peak 4.9 dBi
Polarization	Linear
Radiation Pattern	See the report
Maximum Input Power	2 Watts(CW)
Operating Temperature	-20 ˚C to +60 ˚C
Storage Temperature	-40 ˚C to +85 ˚C
Interconnect Cable Assembly & Connector	Hirose U.FL connector with 1.13 cable
Mechanical Volume & Shape	Mechanical drawing files in SDRC-IDEAS and/ or IGES file format to detail available volume



NOTES:

1 USE GLOVE AND FINGER COT WHEN HANDLING.
DO NOT TOUCH PART WITH BARE HAND
2. PLATE MATERIAL: PBR C5191 1/2H
3. TIN PLATING: 0.5 MICRONS MINIMUM ON BOTH SIDE
4. SPACER MATERIAL: PORON HH48C
5. COAX CABLE Ø1.13 AND HIROSE CONNECTOR.
6. ALL UNDIMENSIONED FEATURES FROM THE CAD MODEL
SHALL HAVE A NOMINAL TOLERANCE OF ±0.13 mm.

DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
THIS DRAWING WAS GENERATED VIA PRO/ENGINEER

ISS	REVISIONS	DATE	CK	APP
D2	CHANGE DESIGN	11/4/05	ZUL	SUGAN
D3	ADD CABLE LENGTH	8/6/05	ZUL	SUGAN
D4	CHANGE DIMENSION	28/6/05	ZUL	SUGAN

SCALE: 1.500
TOL. (UNLESS STATED) .X = ± 0.3 .XX = ± 0.13 ANGULAR = ± 30'
DR: ZUL CK:POR

CENTURION WIRELESS COMPONENTS
PHONE 6-04-3989298
FAX 6-04-3989198
NO.8,(LOT5353) LRG JELAWAT 4 BANDAR SEBERANG JAYA,13700 PERAI P. PINANG

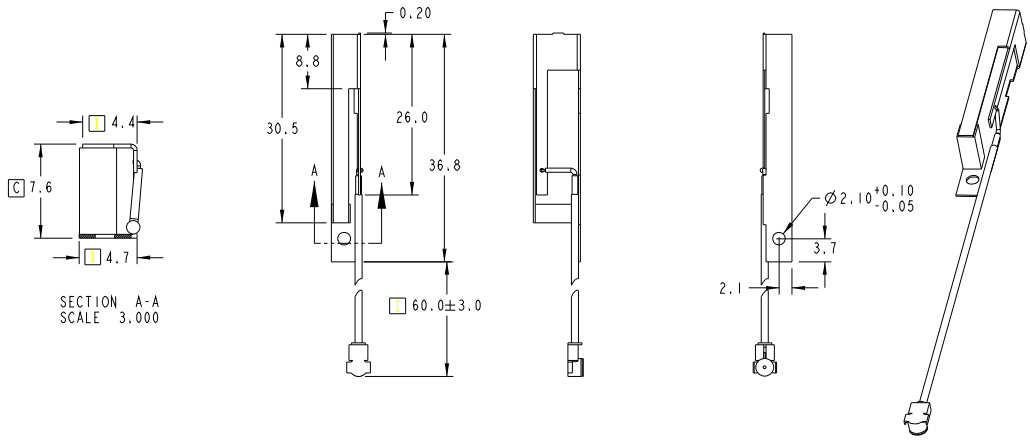
SCORPIO ANTENNA (MAIN) (LEFT)

MATERIAL: SEE NOTES

DATE: 31/3/05 | DWG. NO. : MAF95040 | PG. 1/2 | REV D4

CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS COMPONENTS P.PINANG

COPYRIGHT 2005 CENTURION WIRELESS COMPONENTS CWC00XX



NOTES:

1 USE GLOVE AND FINGER COT WHEN HANDLING.
DO NOT TOUCH PART WITH BARE HAND
2. PLATE MATERIAL: PBR C5191 1/2H
3. TIN PLATING: 0.5 MICRONS MINIMUM ON BOTH SIDE
4. SPACER MATERIAL: PORON HH48C
5. COAX CABLE Ø1.13 AND HIROSE CONNECTOR.
6. ALL UNDIMENSIONED FEATURES FROM THE CAD MODEL
SHALL HAVE A NOMINAL TOLERANCE OF ±0.13 mm.

DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
THIS DRAWING WAS GENERATED VIA PRO/ENGINEER

ISS	REVISIONS	DATE	CK	APP
D2	CHANGE DESIGN	11/4/05	ZUL	SUGAN
D3	ADD CABLE LENGTH	8/6/05	ZUL	SUGAN
D4	CHANGE DIMENSION	28/6/05	ZUL	SUGAN

SCALE: 1.500
TOL. (UNLESS STATED) .X = ± 0.3 .XX = ± 0.13 ANGULAR = ± 30'
DR: ZUL CK:POR

CENTURION WIRELESS COMPONENTS
PHONE 6-04-3989298
FAX 6-04-3989198
NO.8,(LOT5353) LRG JELAWAT 4 BANDAR SEBERANG JAYA,13700 PERAI P. PINANG

SCORPIO ANTENNA (AUX) (RIGHT)

MATERIAL: SEE NOTES

DATE: 31/3/05 | DWG. NO. : MAF95041 | PG. 1/2 | REV D4

CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS COMPONENTS P.PINANG

COPYRIGHT 2005 CENTURION WIRELESS COMPONENTS CWC00XX

Antenna Summary Sheet

General Information			
Customers:		Universal Scientific Industrial (USI) & Symbol Technologies	
Date:		29th June 2005	
Frequency Band (MHz) Multi-Band		2400 – 2500, 4900 – 5000, 5150 – 5350, 5750 – 5875	
Antenna Type:		PIFA	
Prepared by:	Sugan	File:	C:\Chamber\Pattern02\2Dpattern\USI\Gun Type

Comments:

- Antennas tested without matching network.

Electrical Performance Summary: S11			
Specification	Unspecified		
Measurement Configuration	Data		
- Fixture No.: Gun Type - Free space	Frequency (MHz)	VSWR	
		MAIN Antenna	AUX Antenna
	2400	1.9	1.3
	2500	1.6	1.6
	4920	2.1	2.1
	5875	1.9	1.5

CONFIDENTIAL
The information in this product is of a proprietary nature. It may not be reproduced without express written permission of **Centurion Wireless Components (M) SDN BHD** No8 (LOT 5353) Lorong Jelawat 4, Bandar Seberang Jaya, 13700 Prai, Penang, Malaysia.
Tel: 604- 398 9298, Fax: 604-398 9198

Antenna Summary Sheet

Electrical Performance Summary: Average & Maximum Gain (dBi)					
Specification:	Unspecified				
Measurement Configuration	Data				
	Freq. (MHz)	Maximum Gain (dBi)		Average Gain (dBi)	
		MAIN Antenna	AUX Antenna	MAIN Antenna	AUX Antenna
- Fixture No.: GUN TYPE - Free Space - **Azimuth Plane** - **THETA = 0° to 360°**	2400	-0.6	1.0	-3.9	-2.6
	2450	-0.5	1.5	-3.5	-1.8
	2500	-0.4	1.6	-3.5	-2.0
	4900	4.4	3.3	-1.0	-1.6
	5000	4.6	3.0	-0.7	-1.6
	5150	3.8	3.2	-1.5	-2.2
	5250	4.2	3.7	-1.2	-2.0
	5350	4.1	3.8	-0.9	-1.6
	5750	2.9	3.6	-1.9	-2.0
	5875	3.1	4.5	-1.6	-2.0

Electrical Performance Summary: Average & Maximum Gain (dBi)					
Specification:	Unspecified				
Measurement Configuration	Data				
	Freq. (MHz)	Maximum Gain (dBi)		Average Gain (dBi)	
		MAIN Antenna	AUX Antenna	MAIN Antenna	AUX Antenna
- Fixture No.: GUN TYPE - Free Space - **30° Tilted** - **THETA = 0° to 360°**	2400	0.6	2.1	-3.6	-1.6
	2450	0.9	2.7	-3.1	-1.1
	2500	0.6	2.4	-3.0	-1.2
	4900	4.1	3.8	-1.2	-1.3
	5000	4.0	3.5	-1.1	-1.4
	5150	3.3	2.2	-2.0	-2.6
	5250	3.7	3.1	-1.7	-2.4
	5350	3.7	3.2	-1.3	-2.0
	5750	2.5	4.1	-2.3	-2.0
	5875	2.8	4.9	-2.1	-1.8

CONFIDENTIAL
The information in this product is of a proprietary nature. It may not be reproduced without express written permission of **Centurion Wireless Components (M) SDN BHD** No8 (LOT 5353) Lorong Jelawat 4, Bandar Seberang Jaya, 13700 Prai, Penang, Malaysia.
Tel: 604- 398 9298, Fax: 604-398 9198

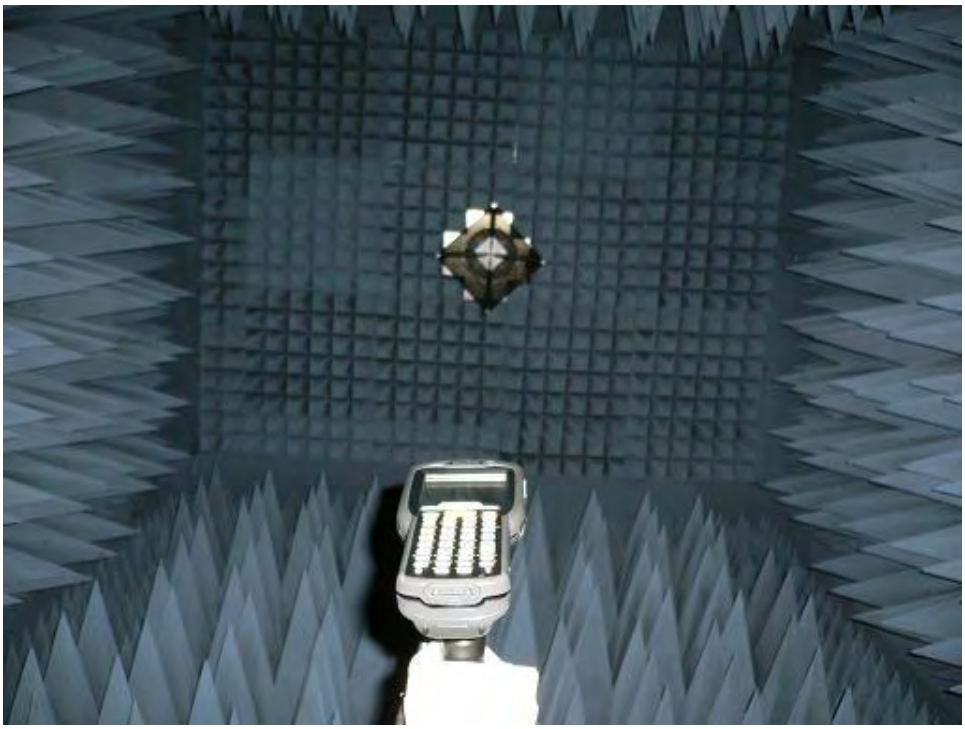
Antenna Summary Sheet

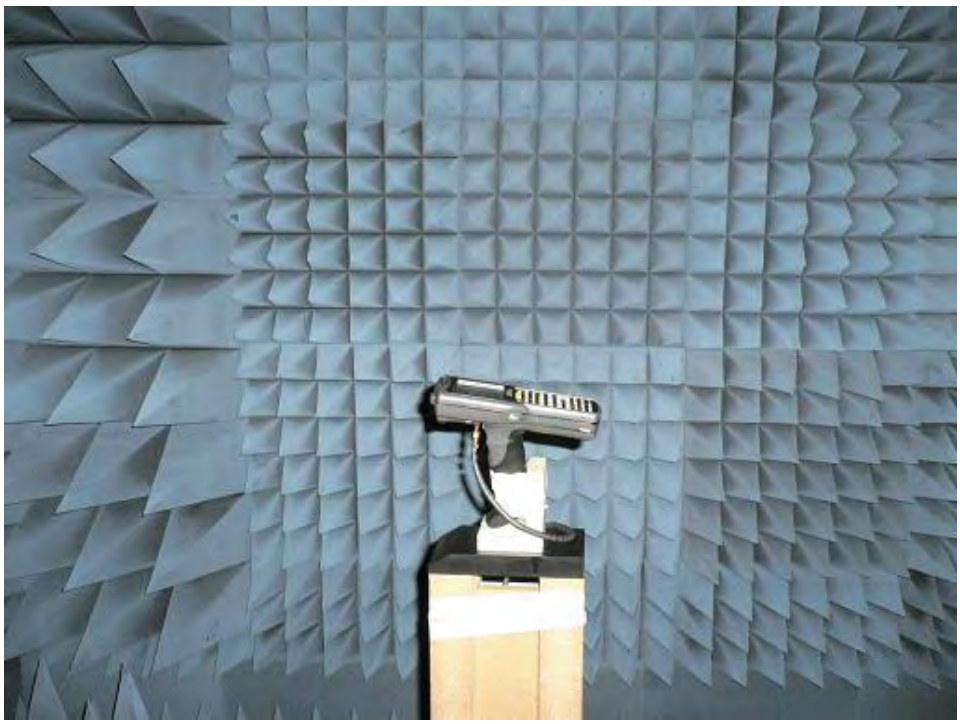
Electrical Performance Summary: Average & Maximum Gain (dBi)					
Specification:	Unspecified				
Measurement Configuration	Data				
	Freq. (MHz)	Maximum Gain (dBi)		Average Gain (dBi)	
		MAIN Antenna	AUX Antenna	MAIN Antenna	AUX Antenna
- Fixture No.: GUN TYPE - Free Space - **Elevation Phi=90 Plane** - **THETA = 0° to 360°**	2400	-1.2	1.7	-4.5	-3.9
	2450	-1.6	1.8	-4.6	-3.8
	2500	-1.1	1.4	-4.6	-4.2
	4900	-1.0	-0.7	-3.8	-4.2
	5000	-0.1	-0.9	-3.5	-4.2
	5150	-0.4	-1.0	-4.1	-4.6
	5250	-0.5	-1.0	-4.1	-4.3
	5350	-0.5	-1.2	-3.8	-4.3
	5750	0.5	0.8	-4.6	-4.6
	5875	1.9	2.1	-4.4	-4.7

Electrical Performance Summary: Average & Maximum Gain (dBi)					
Specification:	Unspecified				
Measurement Configuration	Data				
	Freq. (MHz)	Maximum Gain (dBi)		Average Gain (dBi)	
		MAIN Antenna	AUX Antenna	MAIN Antenna	AUX Antenna
- Fixture No.: GUN TYPE - Free Space - **Elevation Phi=0 Plane** - **THETA = 0° to 360°**	2400	-0.9	0.8	-3.3	-1.9
	2450	-0.3	1.7	-2.5	-1.6
	2500	0.3	1.7	-2.2	-1.7
	4900	4.2	3.9	-0.7	-0.5
	5000	3.9	3.9	-0.8	-0.5
	5150	3.3	3.4	-1.6	-1.3
	5250	3.8	3.6	-1.5	-1.0
	5350	3.4	3.8	-1.5	-0.5
	5750	2.9	3.1	-1.8	-1.1
	5875	2.9	4.8	-1.6	0.3

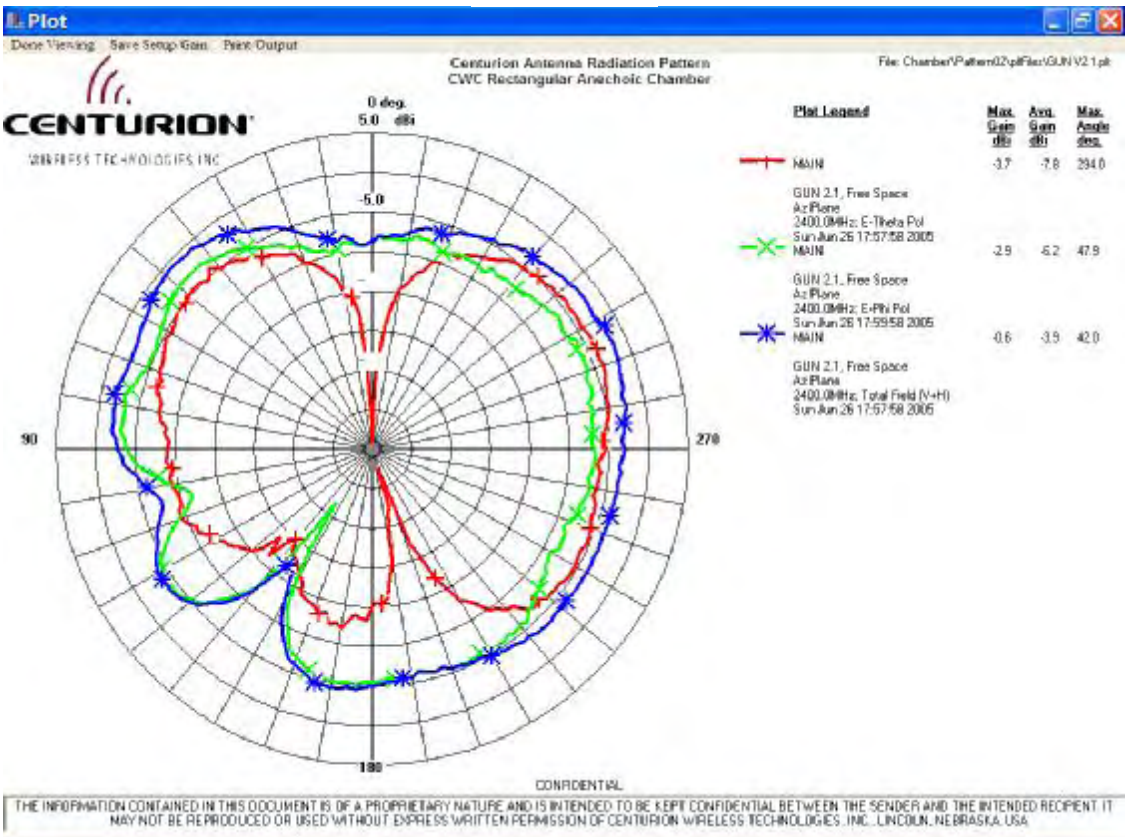
CONFIDENTIAL
The information in this product is of a proprietary nature. It may not be reproduced without express written permission of **Centurion Wireless Components (M) SDN BHD** No8 (LOT 5353) Lorong Jelawat 4, Bandar Seberang Jaya, 13700 Prai, Penang, Malaysia.
Tel: 604- 398 9298, Fax: 604-398 9198

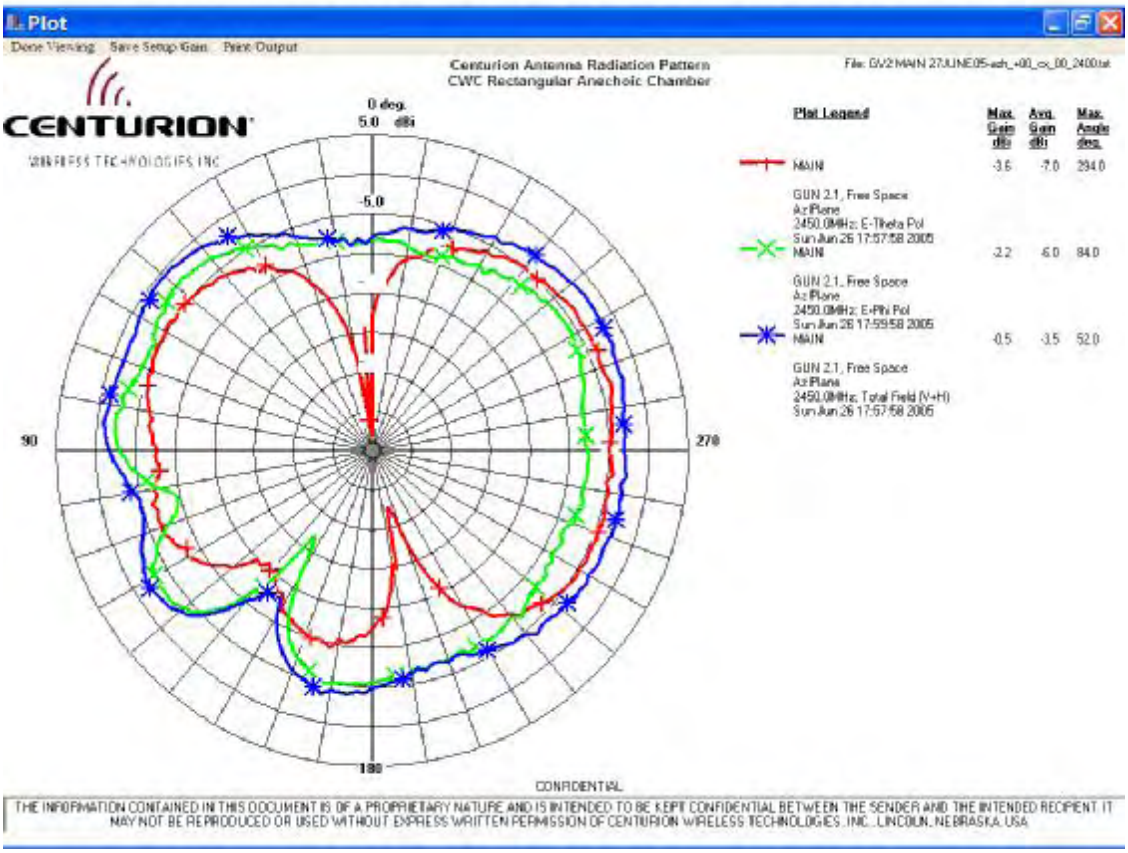
Azimuth Position

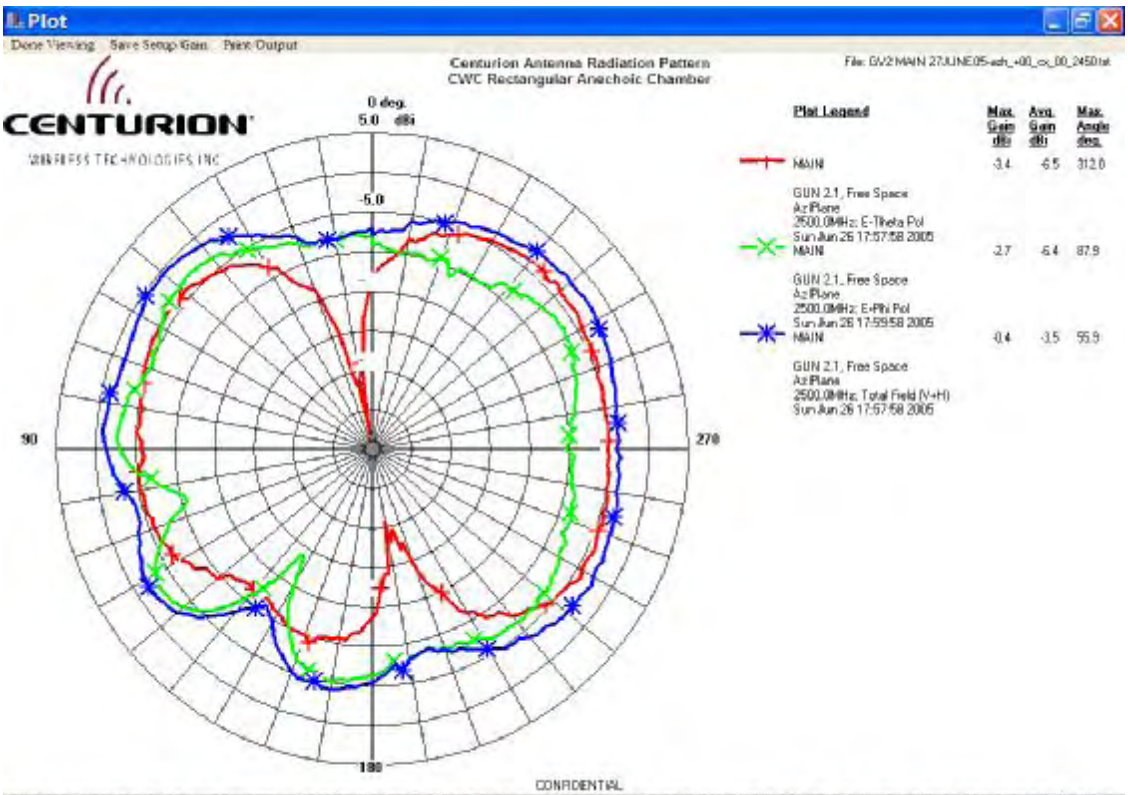


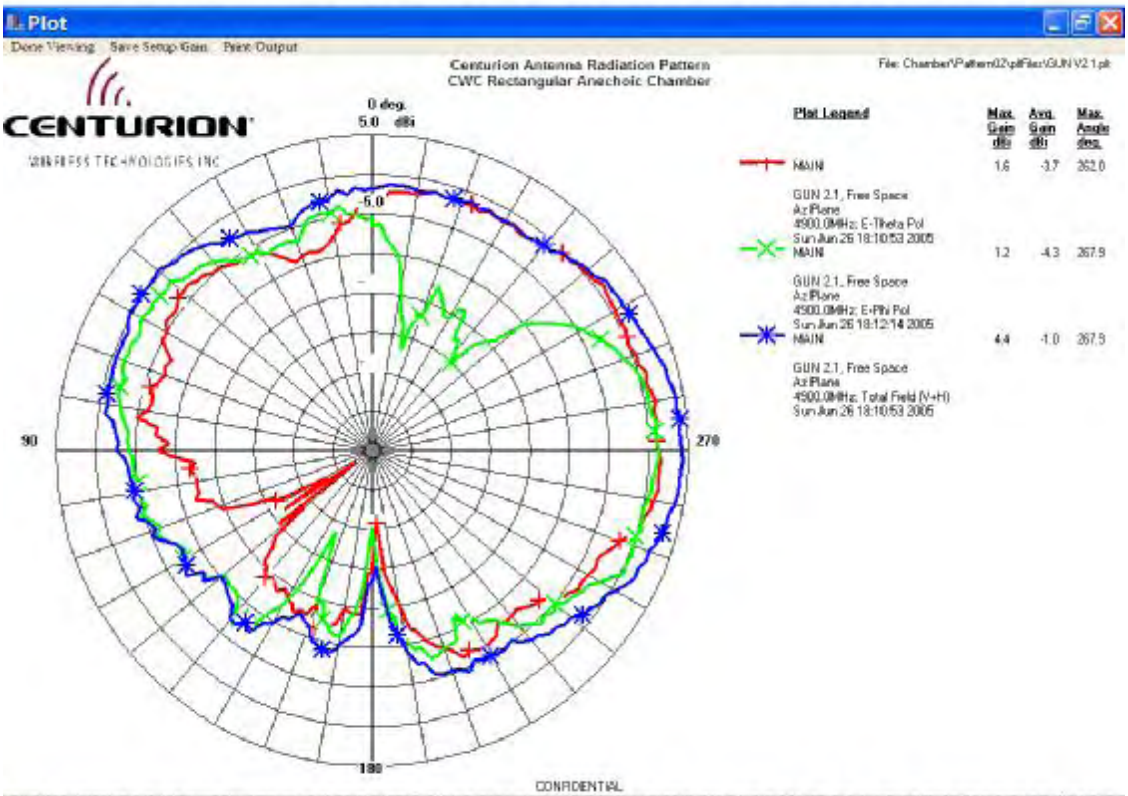


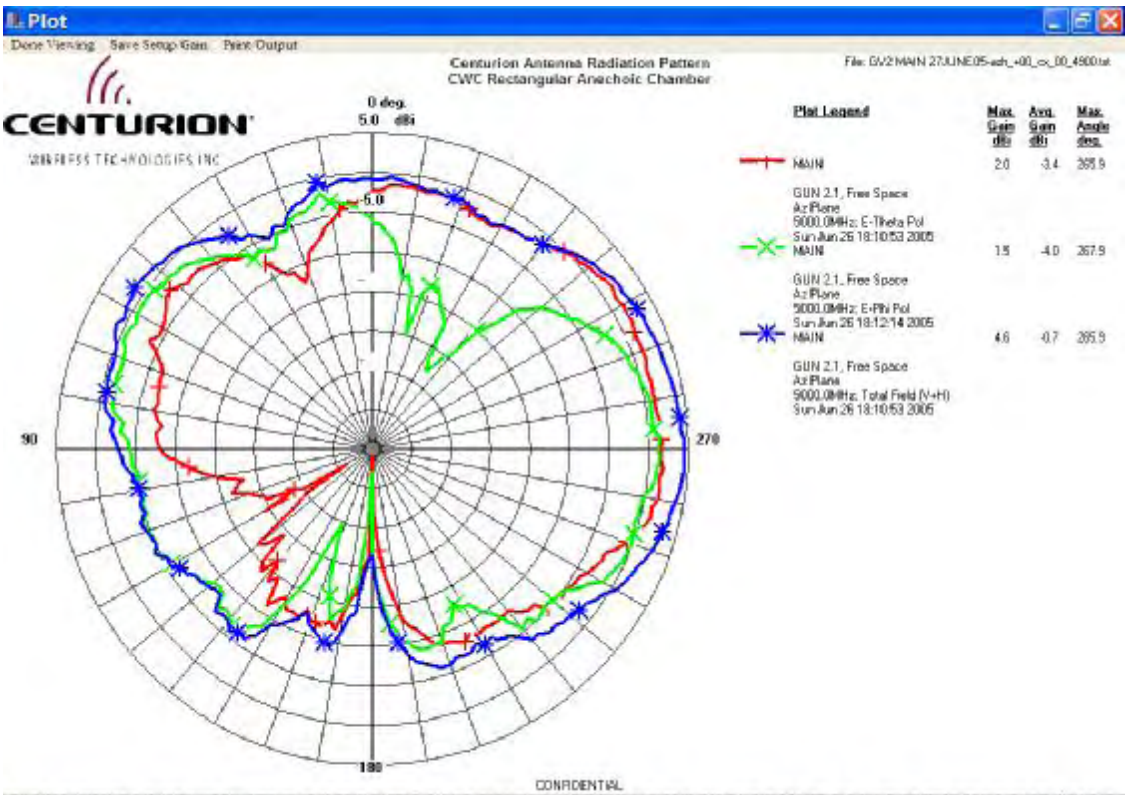
MAIN

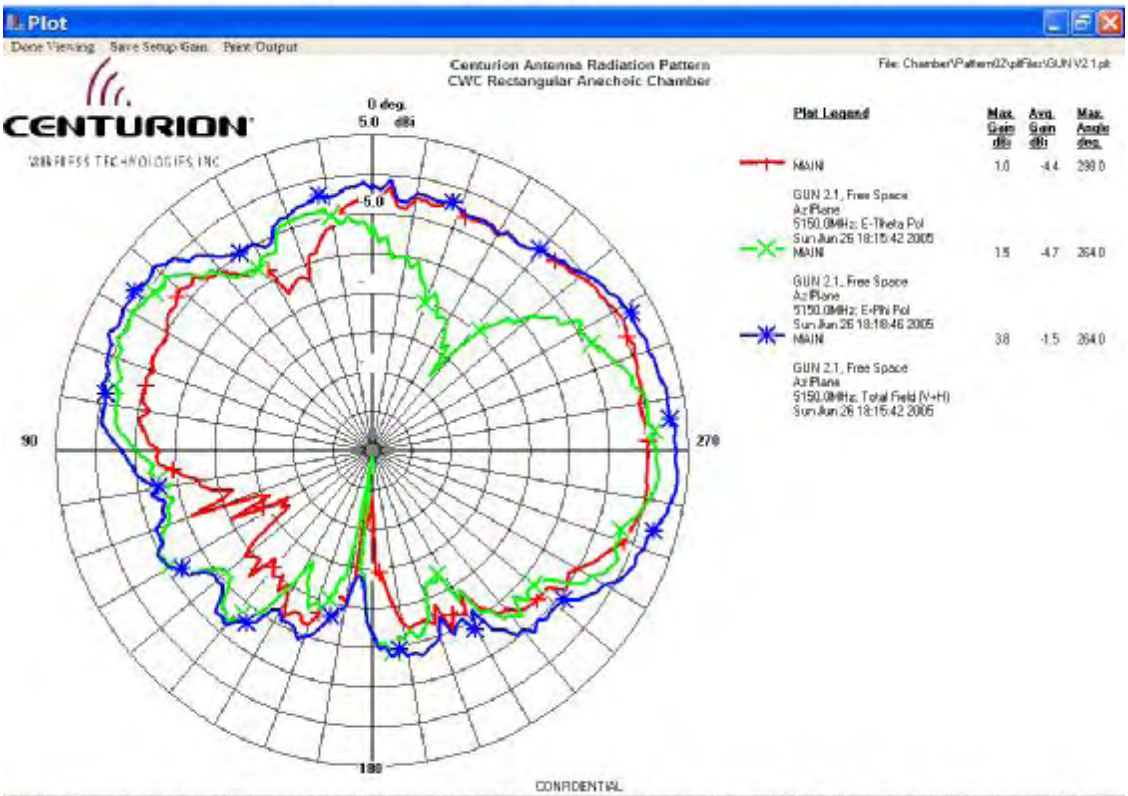

Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -3.7 -7.8 294.0
GUN 2.1, Free Space
Az Plane
2400.0MHz; E-Theta Pol
Sun Jun 26 17:57:58 2005
MAIN -2.9 -6.2 47.9
GUN 2.1, Free Space
Az Plane
2400.0MHz; E-Phi Pol
Sun Jun 26 17:59:58 2005
MAIN -0.6 -3.9 42.0
GUN 2.1, Free Space
Az Plane
2400.0MHz; Total Field (V+H)
Sun Jun 26 17:57:58 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

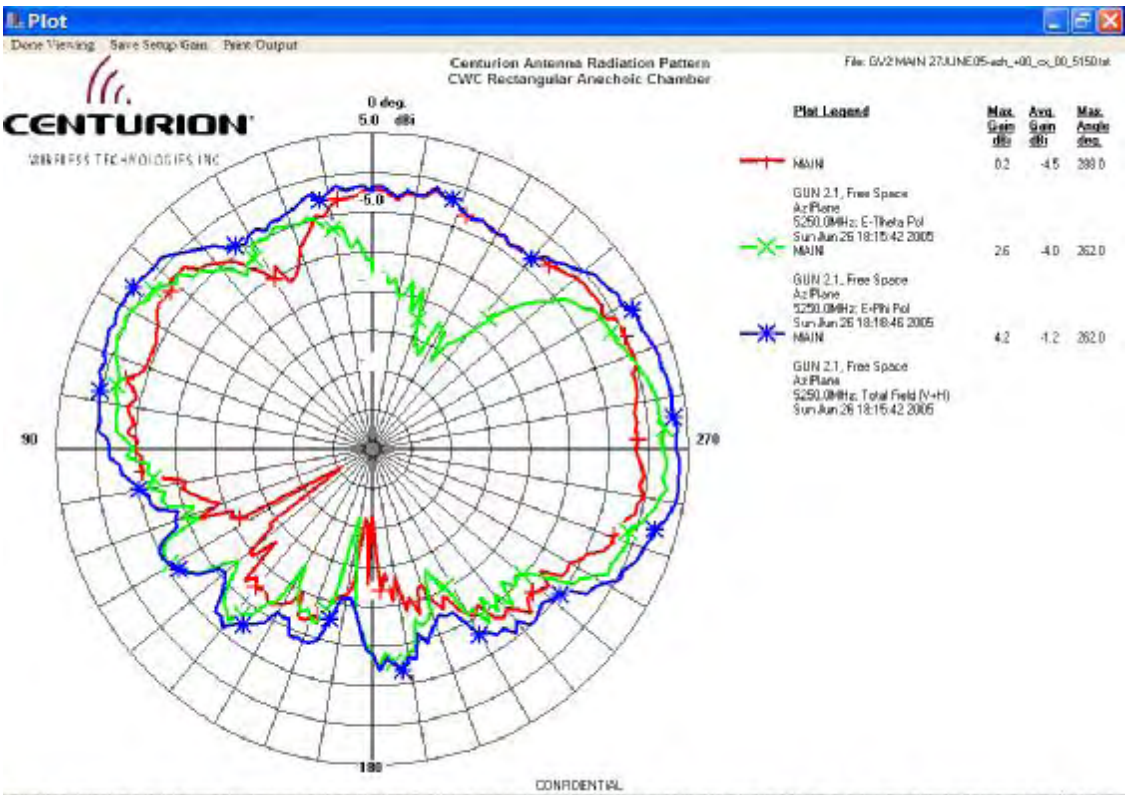

Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2 MAIN 27JUNE05-ash_+00_cx_00_2400.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -3.6 -7.0 294.0
GUN 2.1, Free Space
Az Plane
2450.0MHz; E-Theta Pol
Sun Jun 26 17:57:58 2005
MAIN -2.2 -6.0 84.0
GUN 2.1, Free Space
Az Plane
2450.0MHz; E-Phi Pol
Sun Jun 26 17:59:58 2005
MAIN -0.5 -3.5 52.0
GUN 2.1, Free Space
Az Plane
2450.0MHz; Total Field (V+H)
Sun Jun 26 17:57:58 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

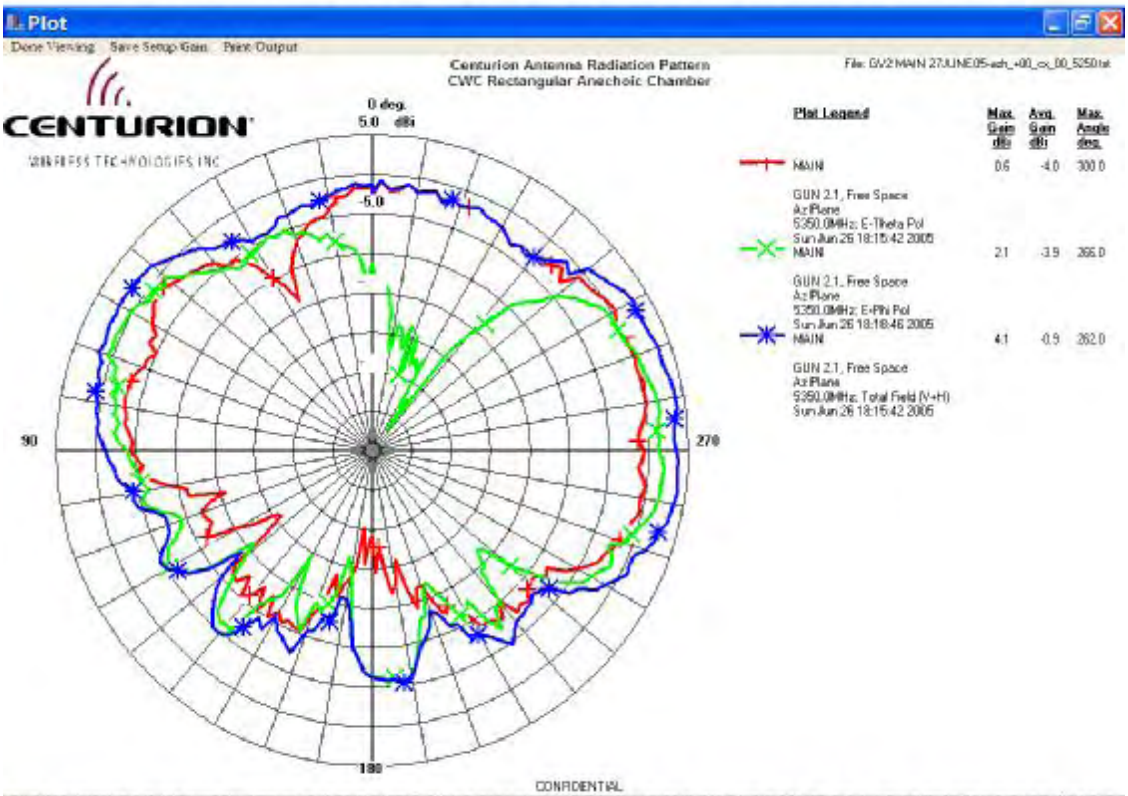

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2MAIN 27JUNE05-ash_+00_cx_00_2450.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -3.4 -6.5 312.0
GUN 2.1, Free Space
Az Plane
2500.0MHz; E-Theta Pol
Sun Jun 26 17:57:58 2005
MAIN -2.7 -6.4 87.9
GUN 2.1, Free Space
Az Plane
2500.0MHz; E-Phi Pol
Sun Jun 26 17:59:58 2005
MAIN -0.4 -3.5 55.9
GUN 2.1, Free Space
Az Plane
2500.0MHz; Total Field (V+H)
Sun Jun 26 17:57:58 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

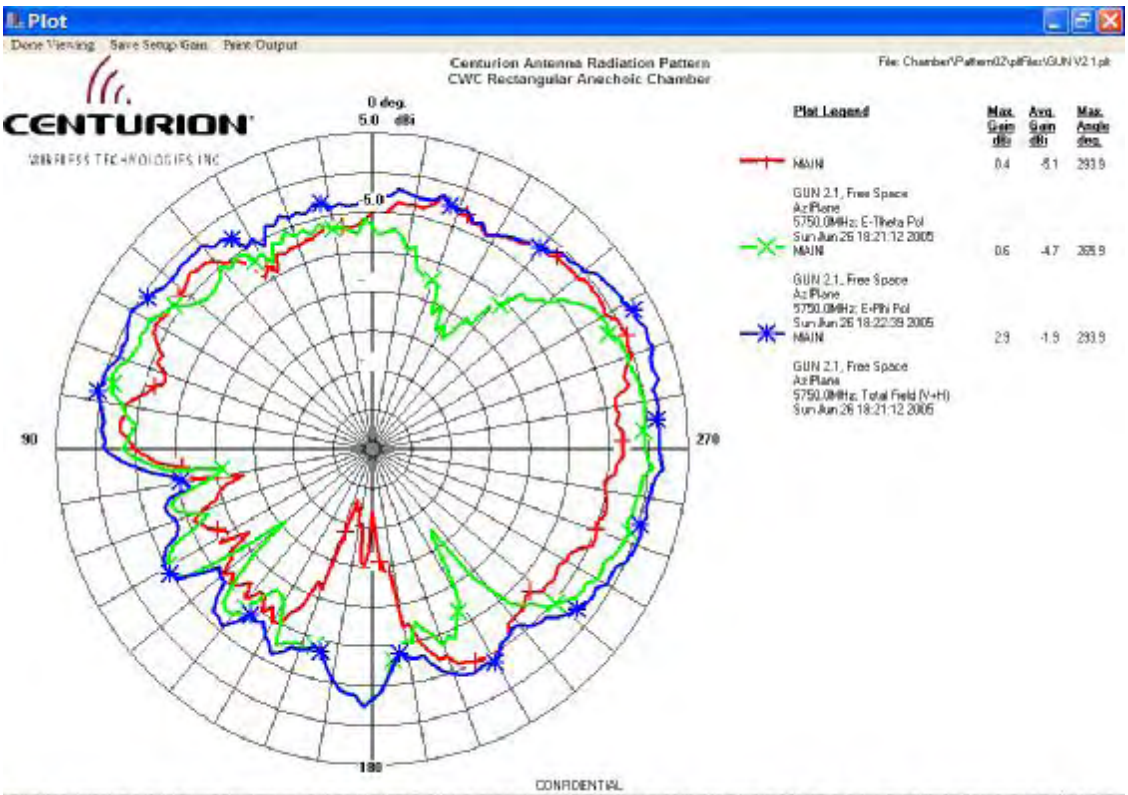

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 1.6 -3.7 352.0
GUN 2.1, Free Space
Az Plane
4500.0MHz; E-Theta Pol
Sun Jun 26 18:10:53 2005
MAIN 1.2 -4.3 267.9
GUN 2.1, Free Space
Az Plane
4500.0MHz; E-Phi Pol
Sun Jun 26 18:12:14 2005
MAIN 4.4 -1.0 267.9
GUN 2.1, Free Space
Az Plane
4500.0MHz; Total Field (V+H)
Sun Jun 26 18:10:53 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

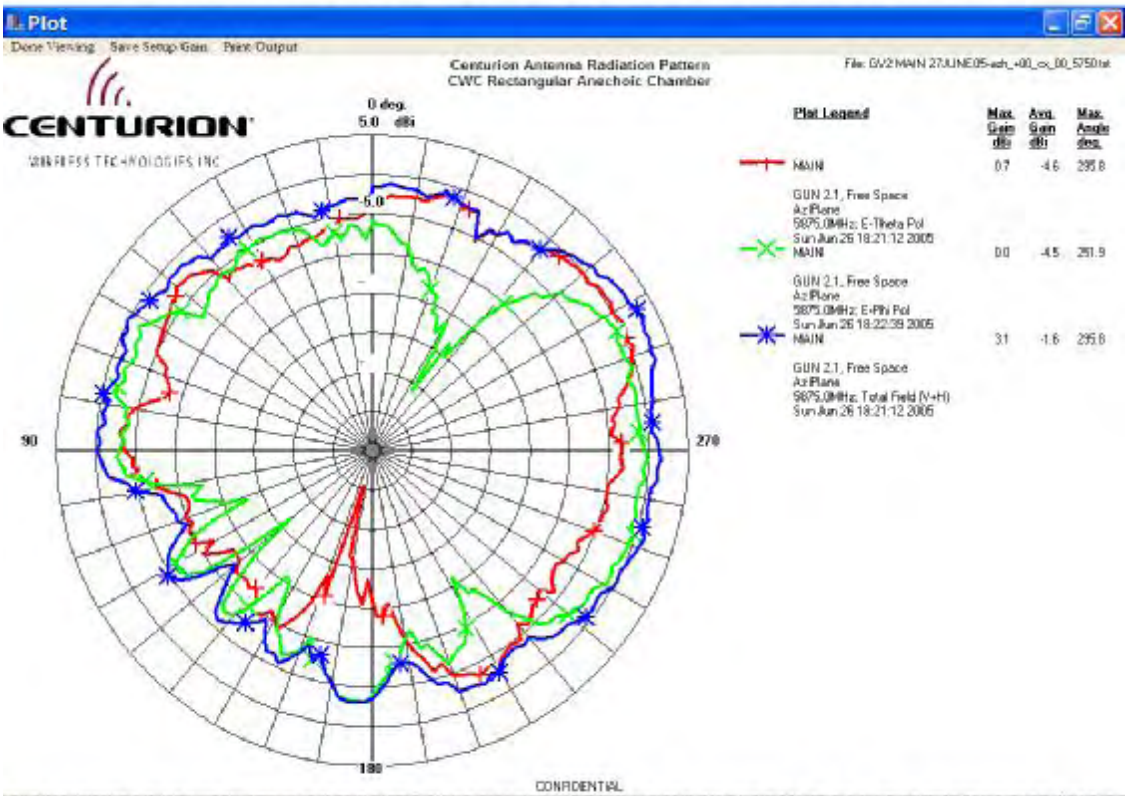

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2MAIN 27JUNE05-ash_+00_cx_00_4900.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 2.0 -3.4 265.9
GUN 2.1, Free Space
Az Plane
9000.0MHz, E-Theta Pol
Sun Jun 26 18:10:53 2005
MAIN 1.5 -4.0 267.9
GUN 2.1, Free Space
Az Plane
9000.0MHz, E-Phi Pol
Sun Jun 26 18:12:14 2005
MAIN 4.6 -0.7 265.9
GUN 2.1, Free Space
Az Plane
9000.0MHz, Total Field (V+H)
Sun Jun 26 18:10:53 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 1.0 -4.4 298.0
GUN 2.1, Free Space
Az Plane
5150.0MHz, E-Theta Pol
Sun Jun 26 18:15:42 2005
MAIN 1.5 -4.7 264.0
GUN 2.1, Free Space
Az Plane
5150.0MHz, E-Phi Pol
Sun Jun 26 18:18:46 2005
MAIN 3.8 -1.5 264.0
GUN 2.1, Free Space
Az Plane
5150.0MHz, Total Field (V+H)
Sun Jun 26 18:15:42 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

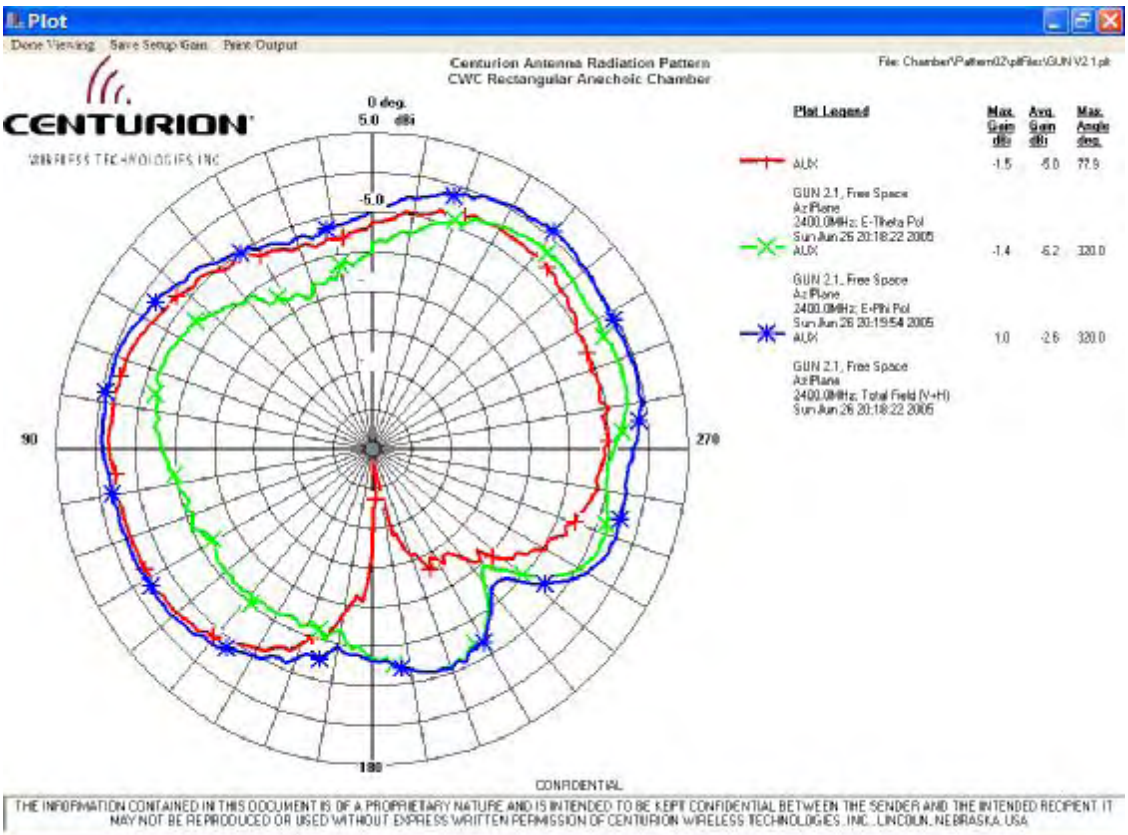

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2MAIN 27JUNE05-ash_+00_cx_00_5150.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 0.2 -4.5 288.0
GUN 2.1, Free Space
Az Plane
5250.0MHz, E-Theta Pol
Sun Jun 26 18:15:42 2005
MAIN 2.6 -4.0 262.0
GUN 2.1, Free Space
Az Plane
5250.0MHz, E-Phi Pol
Sun Jun 26 18:18:46 2005
MAIN 4.2 -1.2 262.0
GUN 2.1, Free Space
Az Plane
5250.0MHz, Total Field (V+H)
Sun Jun 26 18:15:42 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

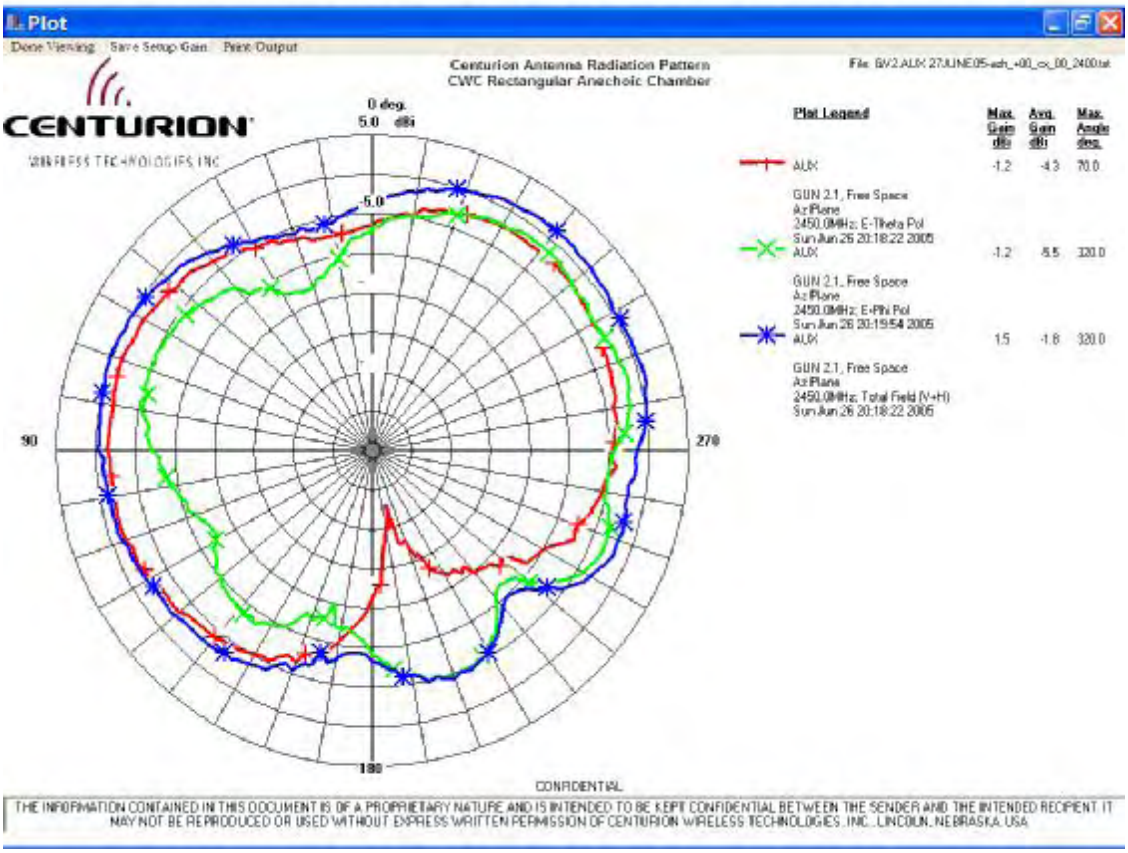

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2MAIN 27JUNE05-ash_+00_cx_00_5250.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 0.6 -4.0 300.0
GUN 2.1, Free Space
Az Plane
5350.0MHz, E-Theta Pol
Sun Jun 26 18:15:42 2005
MAIN 2.1 -3.9 266.0
GUN 2.1, Free Space
Az Plane
5350.0MHz, E-Phi Pol
Sun Jun 26 18:18:46 2005
MAIN 4.1 -0.9 262.0
GUN 2.1, Free Space
Az Plane
5350.0MHz, Total Field (V+H)
Sun Jun 26 18:15:42 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

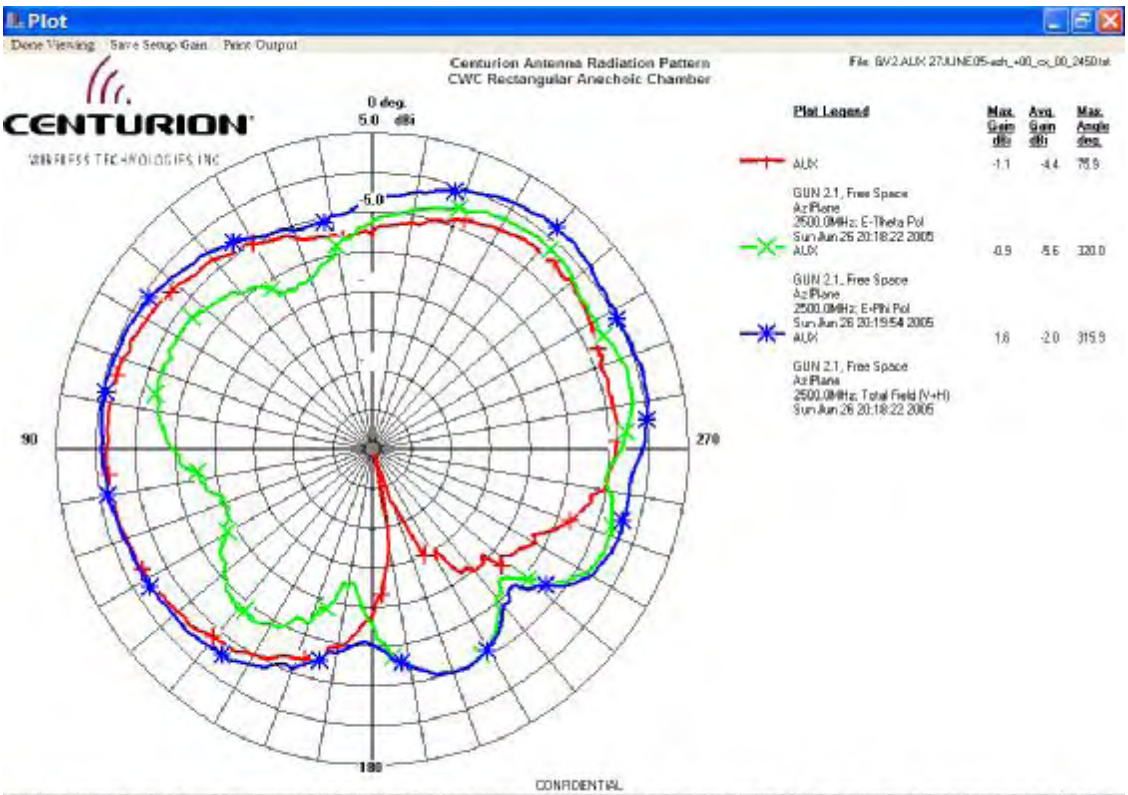

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 0.4 -5.1 293.9
GUN 2.1, Free Space
Az Plane
5750.0MHz, E-Theta Pol
Sun Jun 26 18:21:12 2005
MAIN 0.6 -4.7 265.9
GUN 2.1, Free Space
Az Plane
5750.0MHz, E-Phi Pol
Sun Jun 26 18:22:39 2005
MAIN 2.9 -1.9 293.9
GUN 2.1, Free Space
Az Plane
5750.0MHz, Total Field (V+H)
Sun Jun 26 18:21:12 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

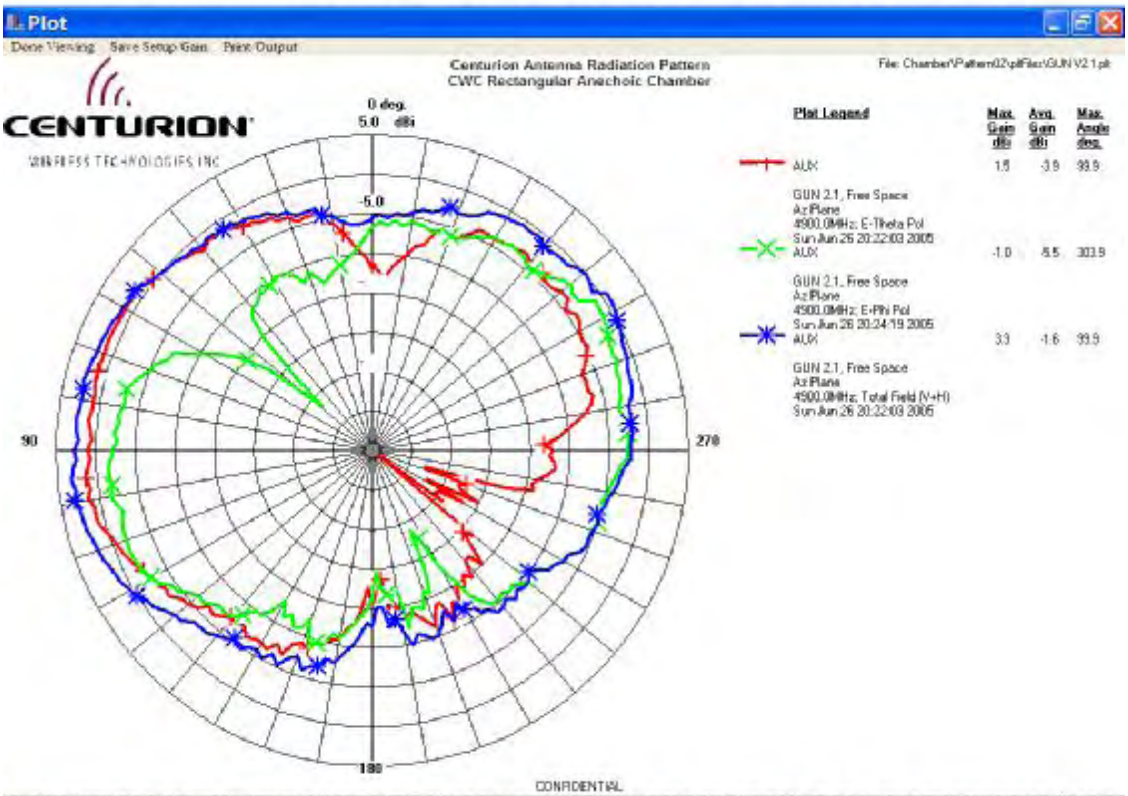

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2 MAIN 27JUNE05-ash_+00_cx_00_5750.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 0.7 -4.6 295.8
GUN 2.1, Free Space
Az Plane
5875.0MHz, E-Theta Pol
Sun Jun 26 18:21:12 2005
MAIN 0.0 -4.5 251.9
GUN 2.1, Free Space
Az Plane
5875.0MHz, E-Phi Pol
Sun Jun 26 18:22:39 2005
MAIN 3.1 -1.6 295.8
GUN 2.1, Free Space
Az Plane
5875.0MHz, Total Field (V+H)
Sun Jun 26 18:21:12 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

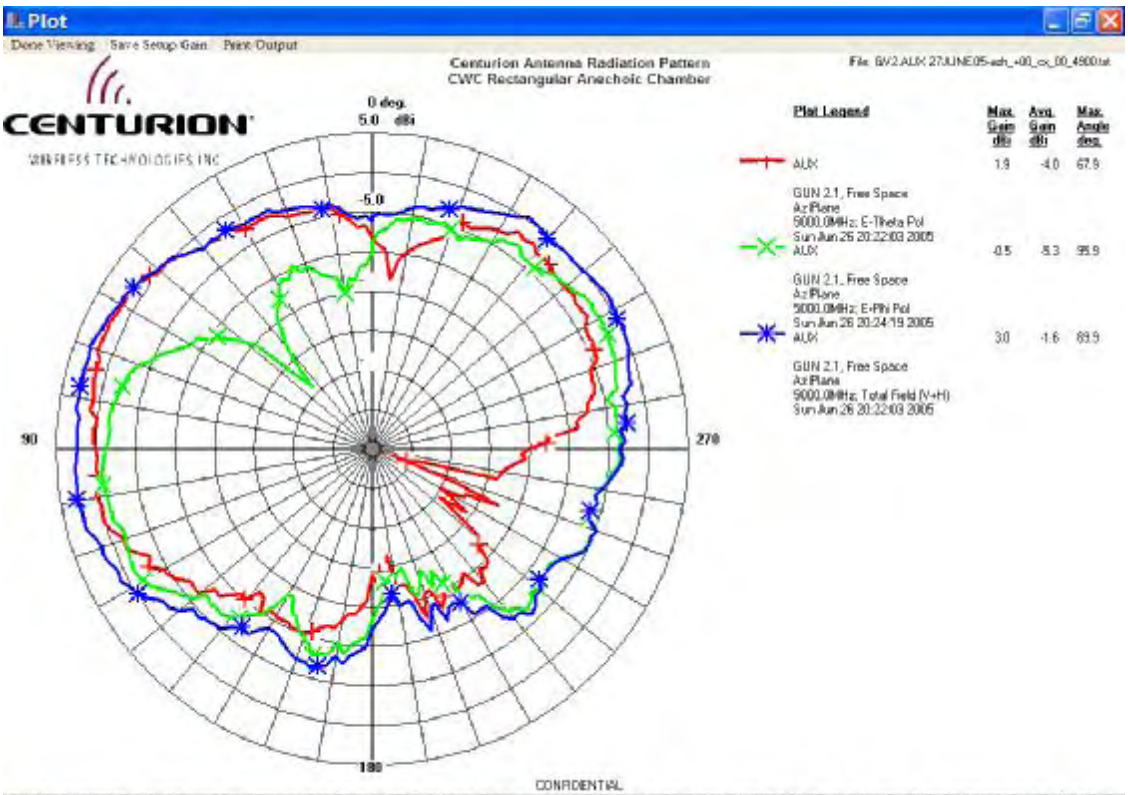
AUX

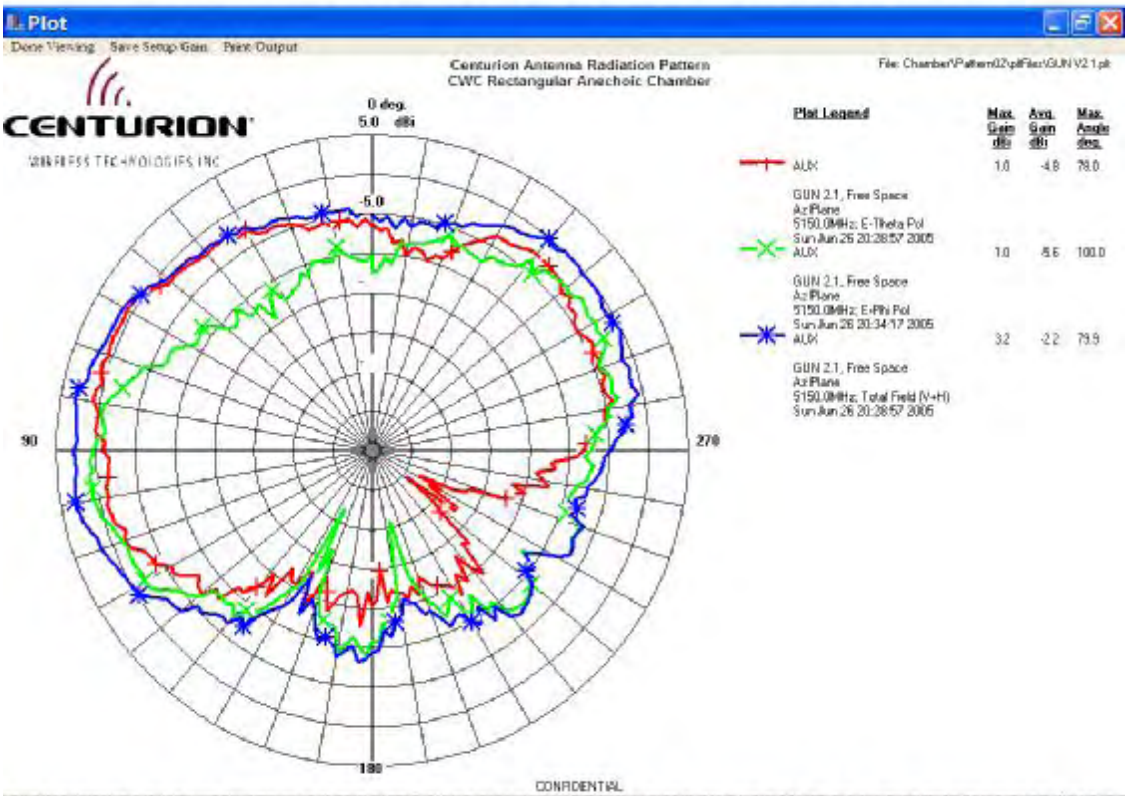

Plot
Done Viewing
Save Setup/Gain
Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -1.5 -5.0 77.9
GUN 2.1, Free Space
Az Plane
2400.0MHz; E-Theta Pol
Sun Jun 26 20:18:22 2005
AUX -1.4 -5.2 320.0
GUN 2.1, Free Space
Az Plane
2400.0MHz; E-Phi Pol
Sun Jun 26 20:19:54 2005
AUX 1.0 -2.6 320.0
GUN 2.1, Free Space
Az Plane
2400.0MHz; Total Field (V+H)
Sun Jun 26 20:18:22 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

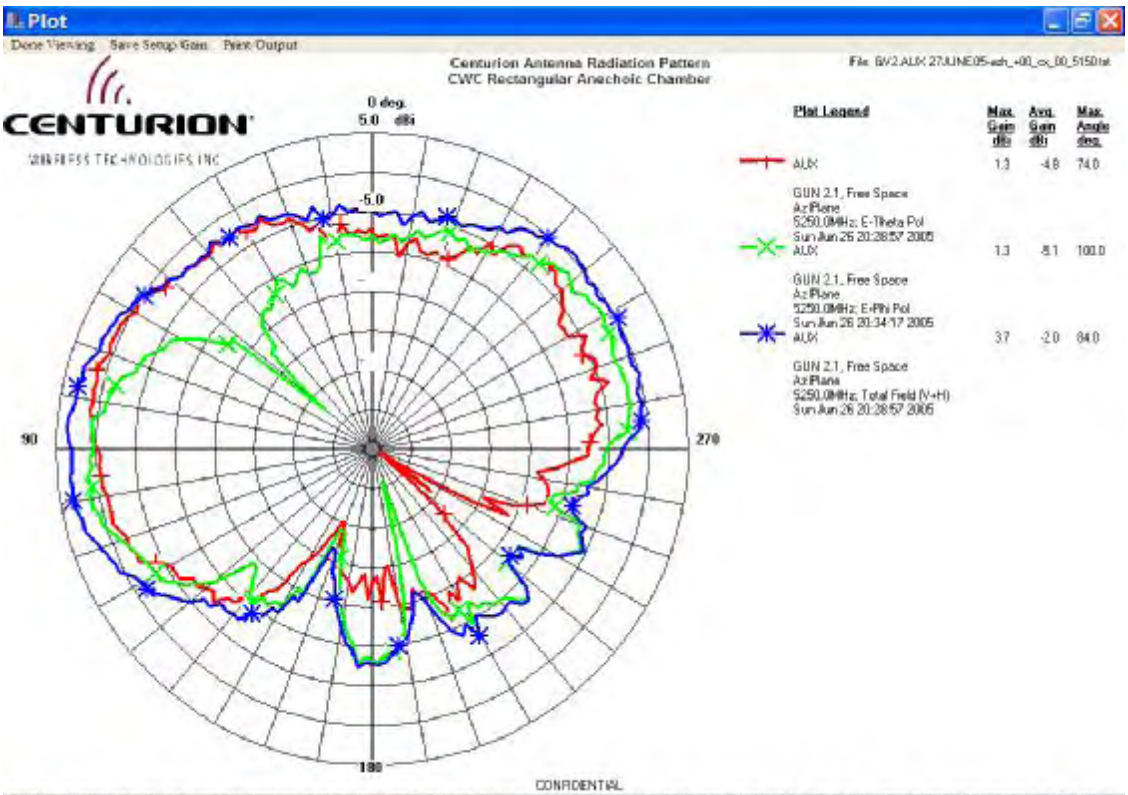

Plot
Done Viewing
Save Setup/Gain
Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 AUX 27JUNE05-ash_+00_cx_00_2400.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -1.2 -4.3 70.0
GUN 2.1, Free Space
Az Plane
2450.0MHz; E-Theta Pol
Sun Jun 26 20:18:22 2005
AUX -1.2 -5.5 320.0
GUN 2.1, Free Space
Az Plane
2450.0MHz; E-Phi Pol
Sun Jun 26 20:19:54 2005
AUX 1.5 -1.8 320.0
GUN 2.1, Free Space
Az Plane
2450.0MHz; Total Field (V+H)
Sun Jun 26 20:18:22 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

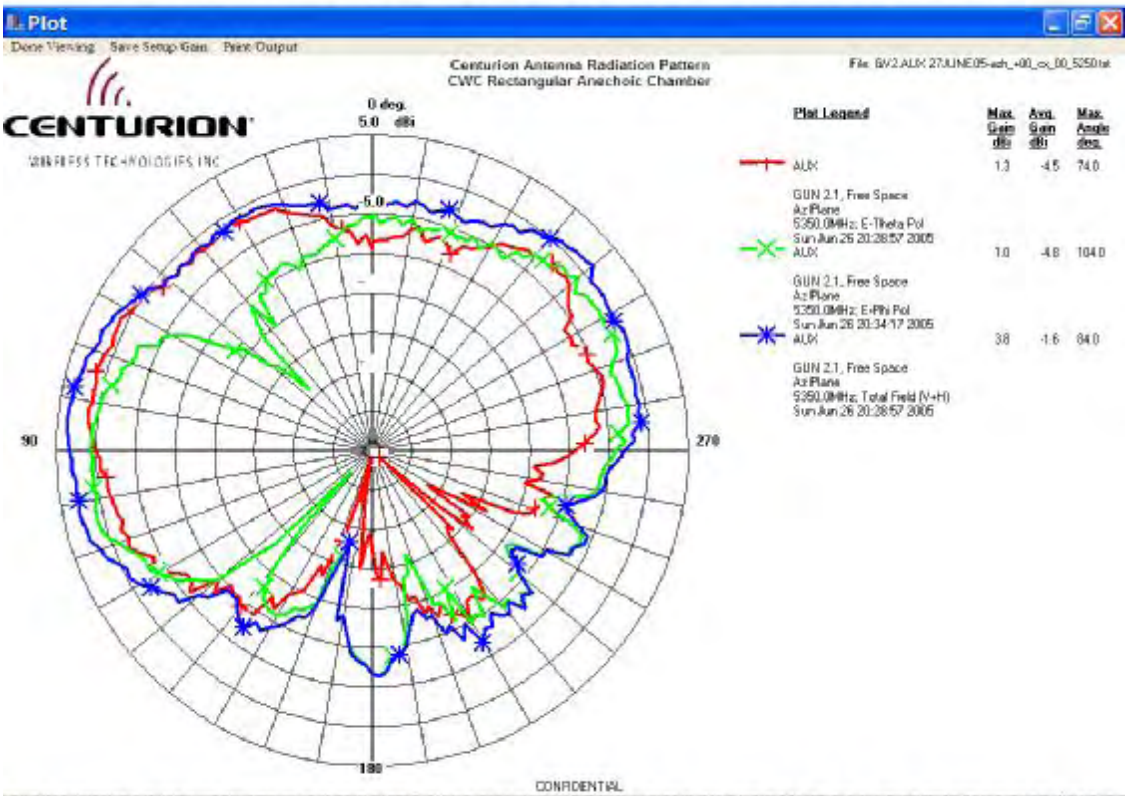

Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2.AUX 27JUNE05-ash_+00_cx_00_2450.txt
CENTURION
WIRELESS TECHNOLOGIES, INC
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -1.1 -4.4 78.9
GUN 2.1, Free Space
Az Plane
2500.0MHz; E-Theta Pol
Sun Jun 26 20:18:22 2005
AUX -0.9 -5.6 320.0
GUN 2.1, Free Space
Az Plane
2500.0MHz; E-Phi Pol
Sun Jun 26 20:19:54 2005
AUX 1.6 -2.0 315.9
GUN 2.1, Free Space
Az Plane
2500.0MHz; Total Field (V+H)
Sun Jun 26 20:18:22 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

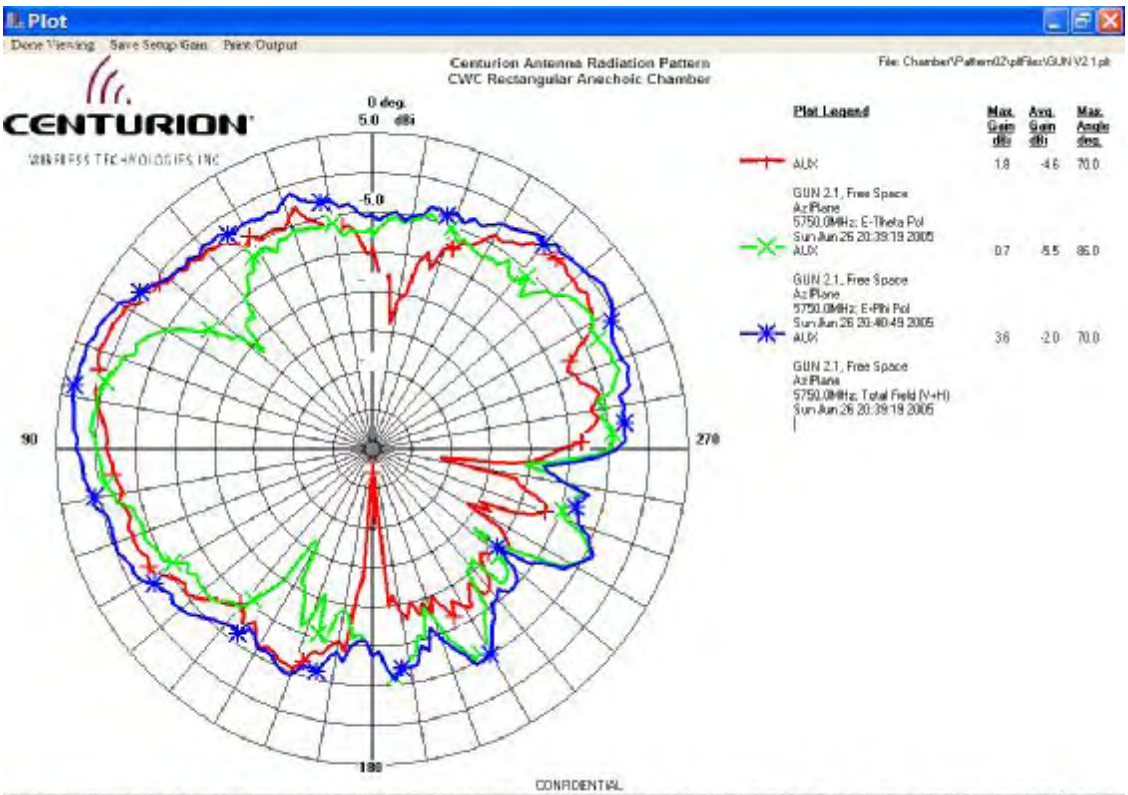

Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
WIRELESS TECHNOLOGIES, INC
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 1.5 -3.9 93.9
GUN 2.1, Free Space
Az Plane
4500.0MHz; E-Theta Pol
Sun Jun 26 20:22:03 2005
AUX -1.0 -5.5 303.9
GUN 2.1, Free Space
Az Plane
4500.0MHz; E-Phi Pol
Sun Jun 26 20:24:19 2005
AUX 3.3 -1.6 93.9
GUN 2.1, Free Space
Az Plane
4500.0MHz; Total Field (V+H)
Sun Jun 26 20:22:03 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

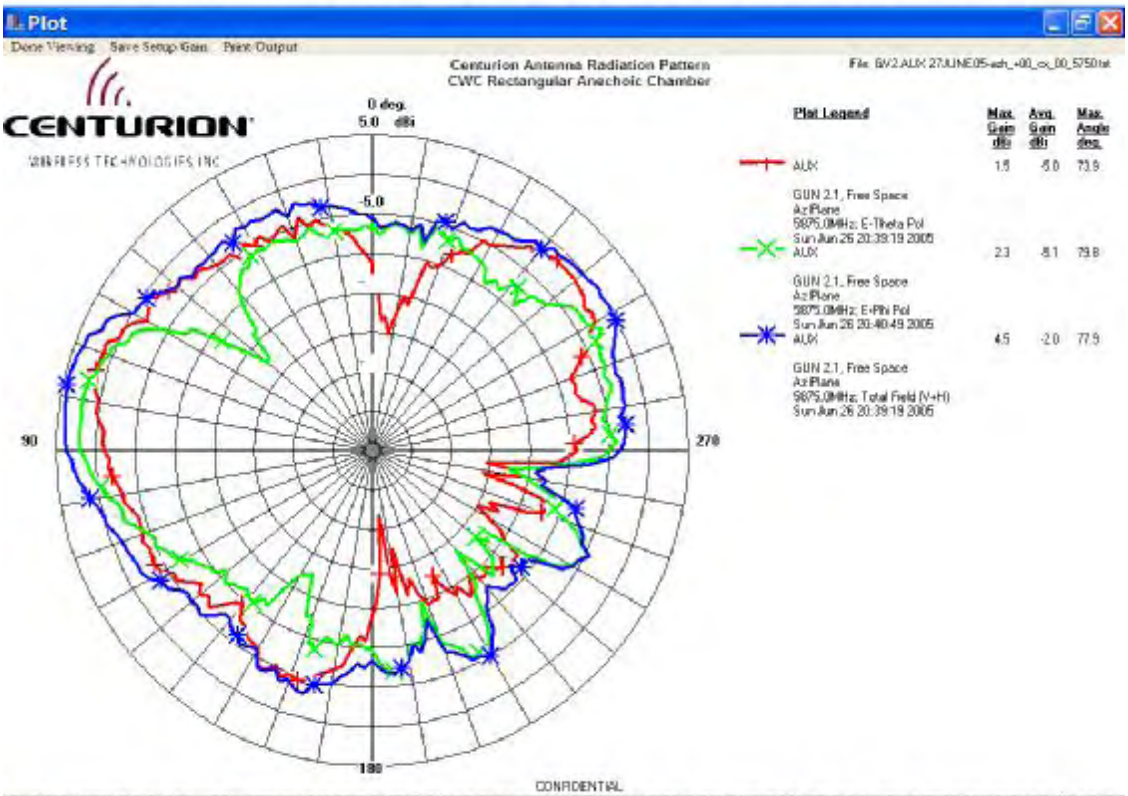

Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2.AUX 27JUNE05-ash_+00_cx_00_4900.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 1.9 -4.0 67.9
GUN 2.1, Free Space
Az Plane
9000.0MHz; E-Theta Pol
Sun Jun 26 20:22:03 2005
AUX -0.5 -5.3 95.9
GUN 2.1, Free Space
Az Plane
9000.0MHz; E-Phi Pol
Sun Jun 26 20:24:19 2005
AUX 3.0 -1.6 69.9
GUN 2.1, Free Space
Az Plane
9000.0MHz; Total Field (V+H)
Sun Jun 26 20:22:03 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 1.0 -4.8 78.0
GUN 2.1, Free Space
Az Plane
5150.0MHz; E-Theta Pol
Sun Jun 26 20:28:57 2005
AUX 1.0 -5.6 100.0
GUN 2.1, Free Space
Az Plane
5150.0MHz; E-Phi Pol
Sun Jun 26 20:34:17 2005
AUX 3.2 -2.2 79.9
GUN 2.1, Free Space
Az Plane
5150.0MHz; Total Field (V+H)
Sun Jun 26 20:28:57 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 AUX 27JUNE05-ash_+00_cx_00_5150.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 1.3 -4.8 74.0
GUN 2.1, Free Space
Az Plane
5250.0MHz; E-Theta Pol
Sun Jun 26 20:28:57 2005
AUX 1.3 -8.1 100.0
GUN 2.1, Free Space
Az Plane
5250.0MHz; E-Phi Pol
Sun Jun 26 20:34:17 2005
AUX 3.7 -2.0 84.0
GUN 2.1, Free Space
Az Plane
5250.0MHz; Total Field (V+H)
Sun Jun 26 20:28:57 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

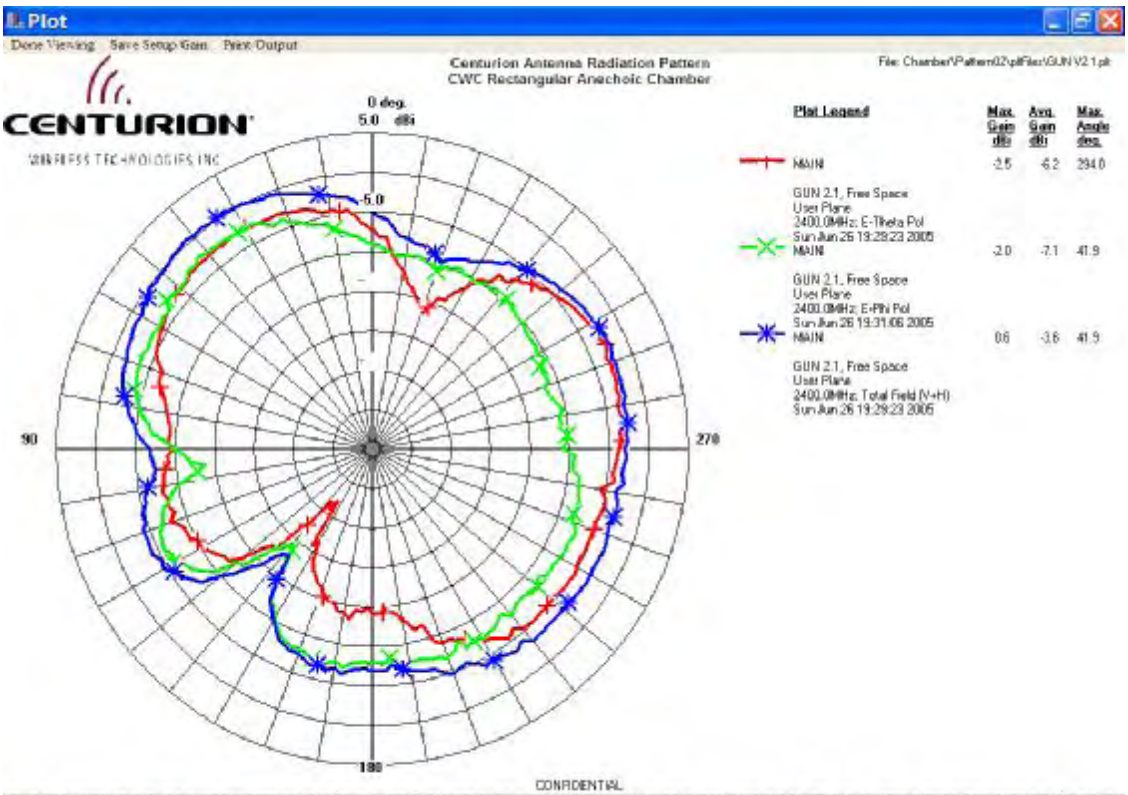

Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 AUX 27JUNE05-ash_+00_cx_00_5250.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 1.3 -4.5 74.0
GUN 2.1, Free Space
Az Plane
5350.0MHz; E-Theta Pol
Sun Jun 26 20:28:57 2005
AUX 1.0 -4.8 104.0
GUN 2.1, Free Space
Az Plane
5350.0MHz; E-Phi Pol
Sun Jun 26 20:34:17 2005
AUX 3.8 -1.6 84.0
GUN 2.1, Free Space
Az Plane
5350.0MHz; Total Field (V+H)
Sun Jun 26 20:28:57 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

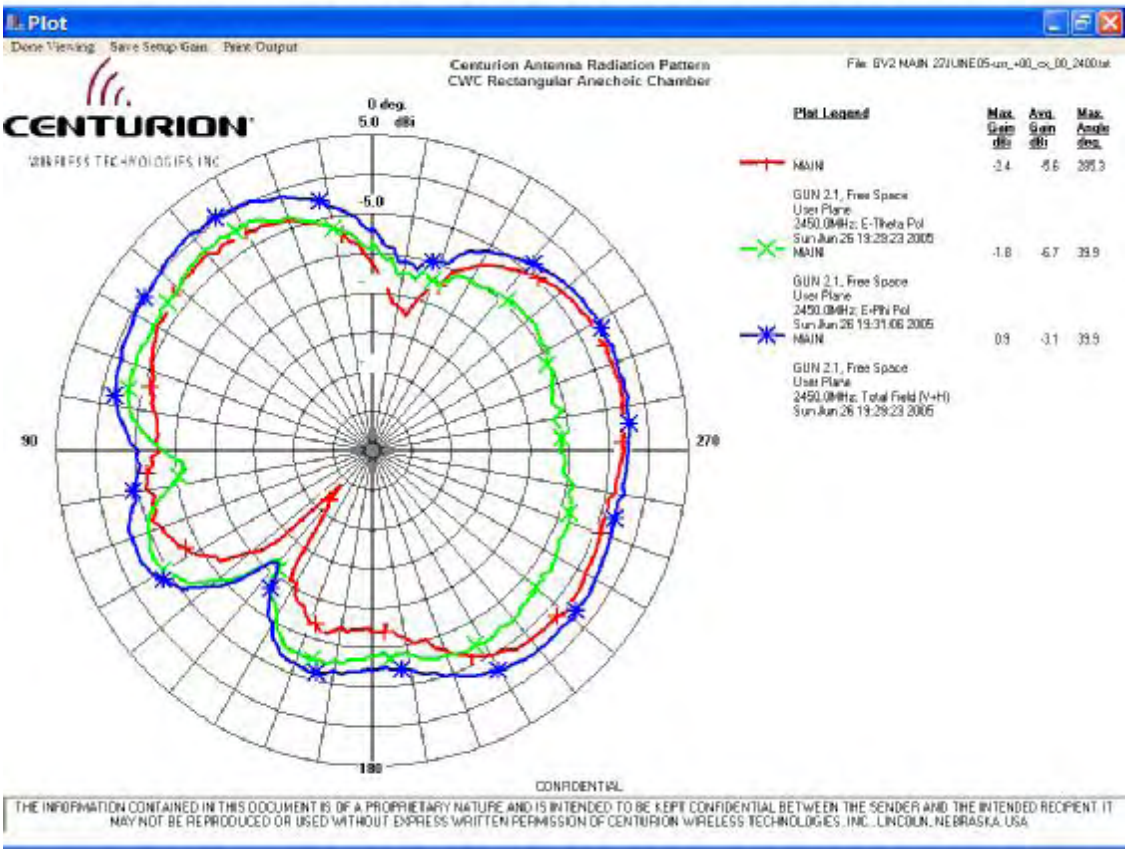

Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
WIRELESS TECHNOLOGIES, INC
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 1.8 -4.6 70.0
GUN 2.1, Free Space
Az Plane
5750.0MHz, E-Theta Pol
Sun Jun 26 20:39:19 2005
AUX 0.7 -5.5 86.0
GUN 2.1, Free Space
Az Plane
5750.0MHz, E-Phi Pol
Sun Jun 26 20:40:49 2005
AUX 3.6 -2.0 70.0
GUN 2.1, Free Space
Az Plane
5750.0MHz, Total Field (V+H)
Sun Jun 26 20:39:19 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

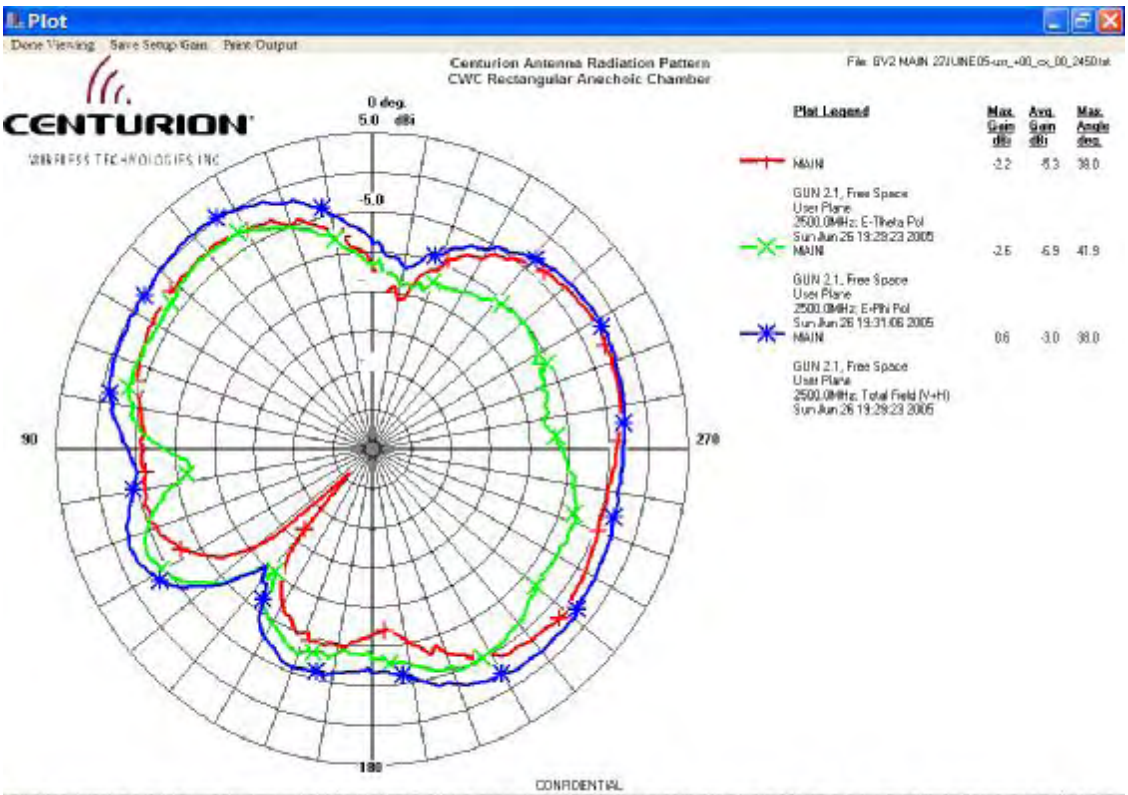

Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2 AUX 27JUNE05-ash_+00_cx_00_5750.txt
CENTURION
WIRELESS TECHNOLOGIES, INC
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 1.5 -5.0 73.9
GUN 2.1, Free Space
Az Plane
5875.0MHz, E-Theta Pol
Sun Jun 26 20:39:19 2005
AUX 2.3 -5.1 79.8
GUN 2.1, Free Space
Az Plane
5875.0MHz, E-Phi Pol
Sun Jun 26 20:40:49 2005
AUX 4.5 -2.0 77.5
GUN 2.1, Free Space
Az Plane
5875.0MHz, Total Field (V+H)
Sun Jun 26 20:39:19 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

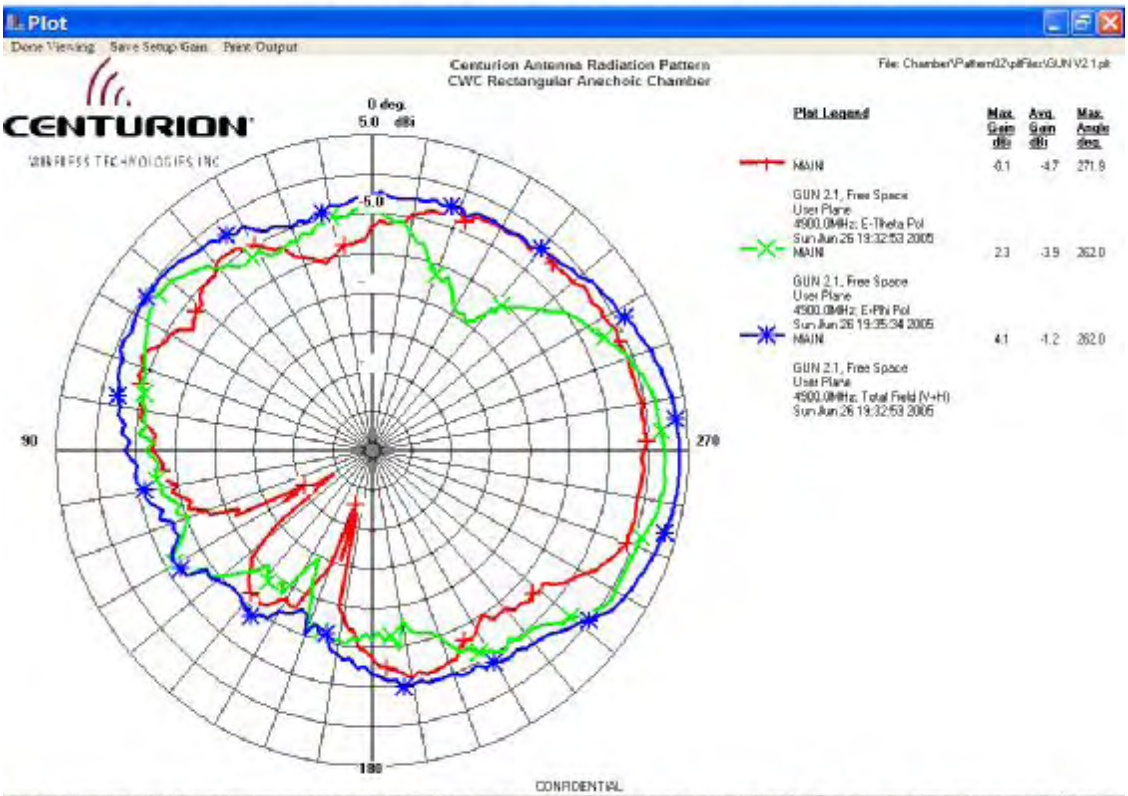
User Position (30° Tilted)

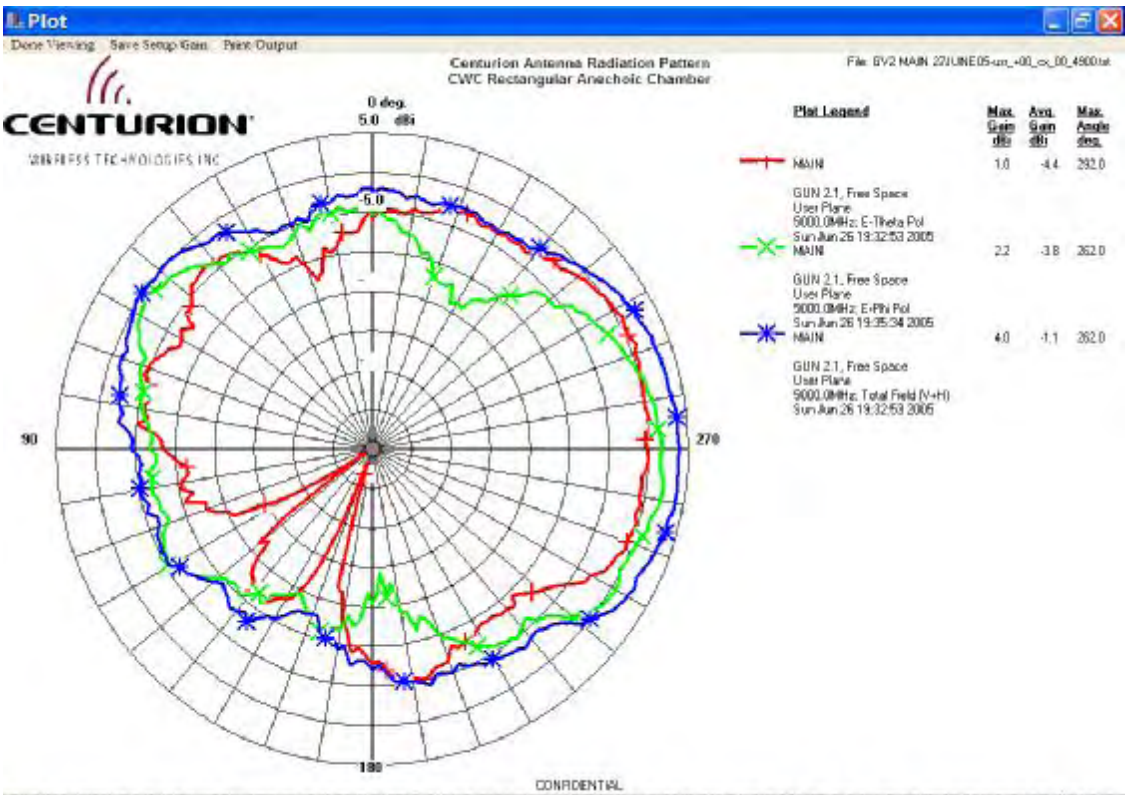
MAIN

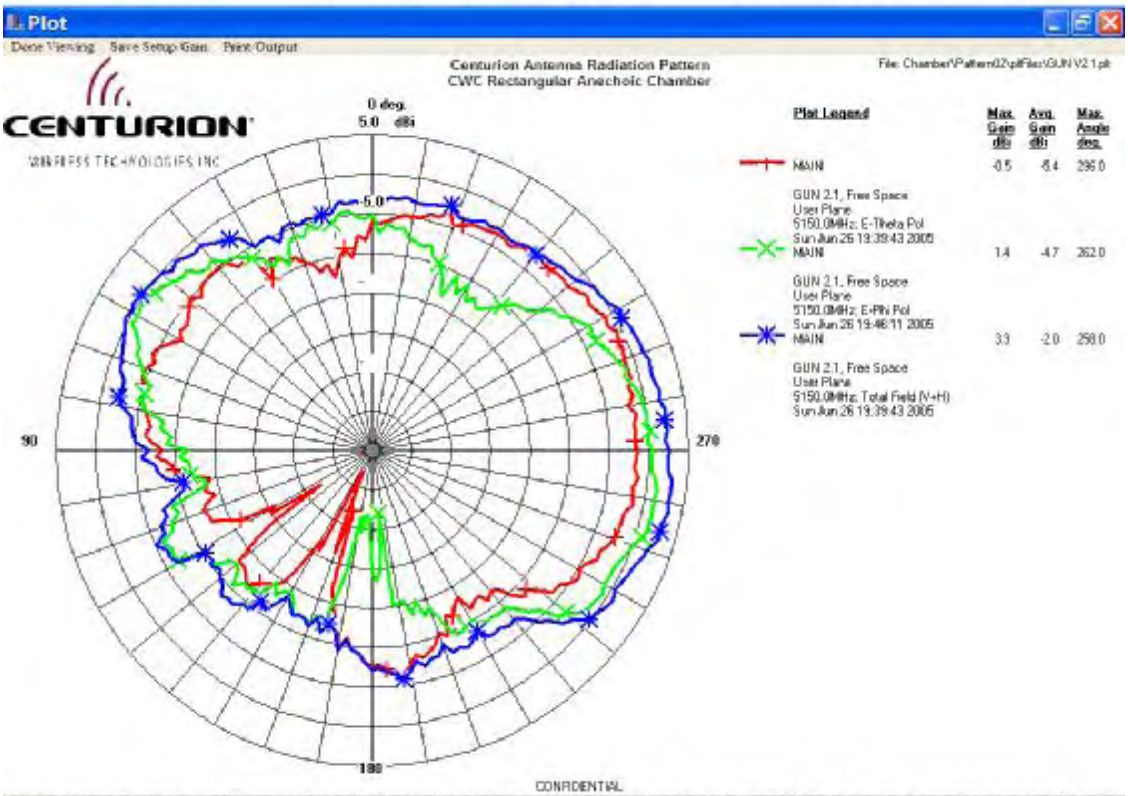

Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -2.5 -6.2 294.0
GUN 2.1, Free Space
User Plane
2400.0MHz, E-Theta Pol
Sun Jun 26 19:29:23 2005
MAIN -2.0 -7.1 41.9
GUN 2.1, Free Space
User Plane
2400.0MHz, E-Phi Pol
Sun Jun 26 19:31:06 2005
MAIN 0.6 -3.6 41.9
GUN 2.1, Free Space
User Plane
2400.0MHz, Total Field (V+H)
Sun Jun 26 19:29:23 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

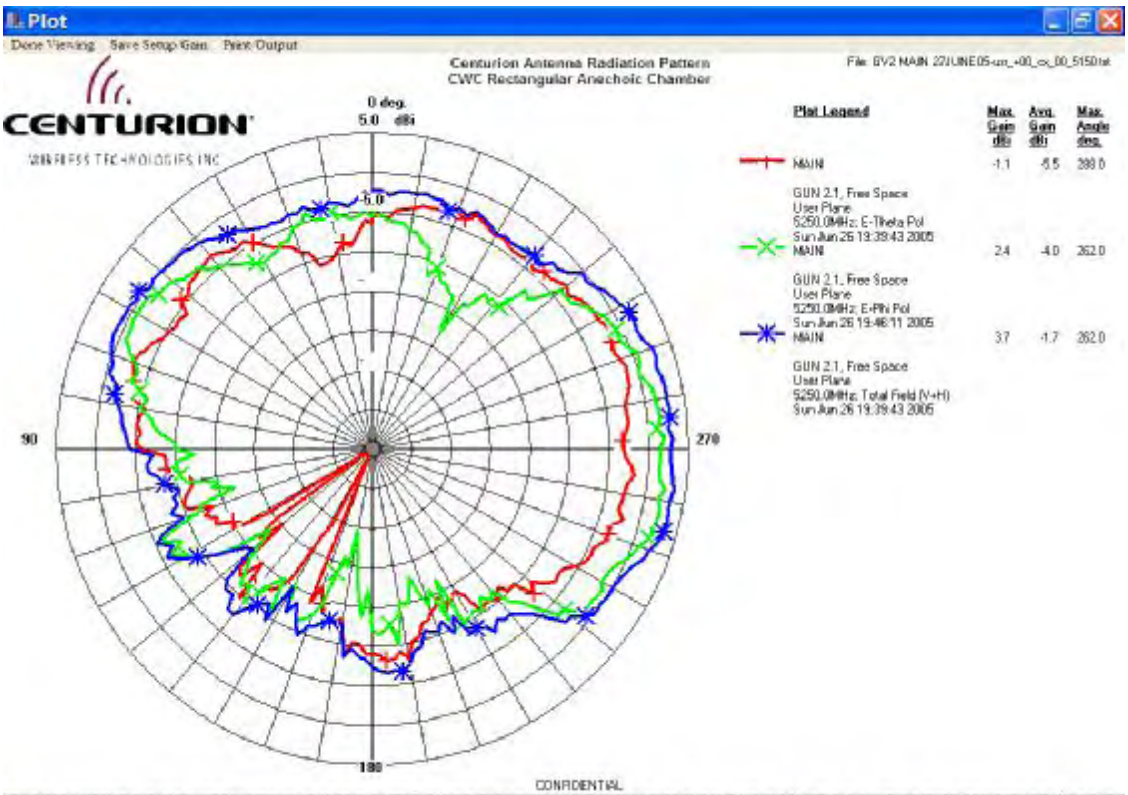

Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -2.4 -5.6 295.3
GUN 2.1, Free Space
User Plane
2450.0MHz, E-Theta Pol
Sun Jun 26 19:29:23 2005
MAIN -1.8 -6.7 39.9
GUN 2.1, Free Space
User Plane
2450.0MHz, E-Phi Pol
Sun Jun 26 19:31:06 2005
MAIN 0.9 -3.1 39.9
GUN 2.1, Free Space
User Plane
2450.0MHz, Total Field (V+H)
Sun Jun 26 19:29:23 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

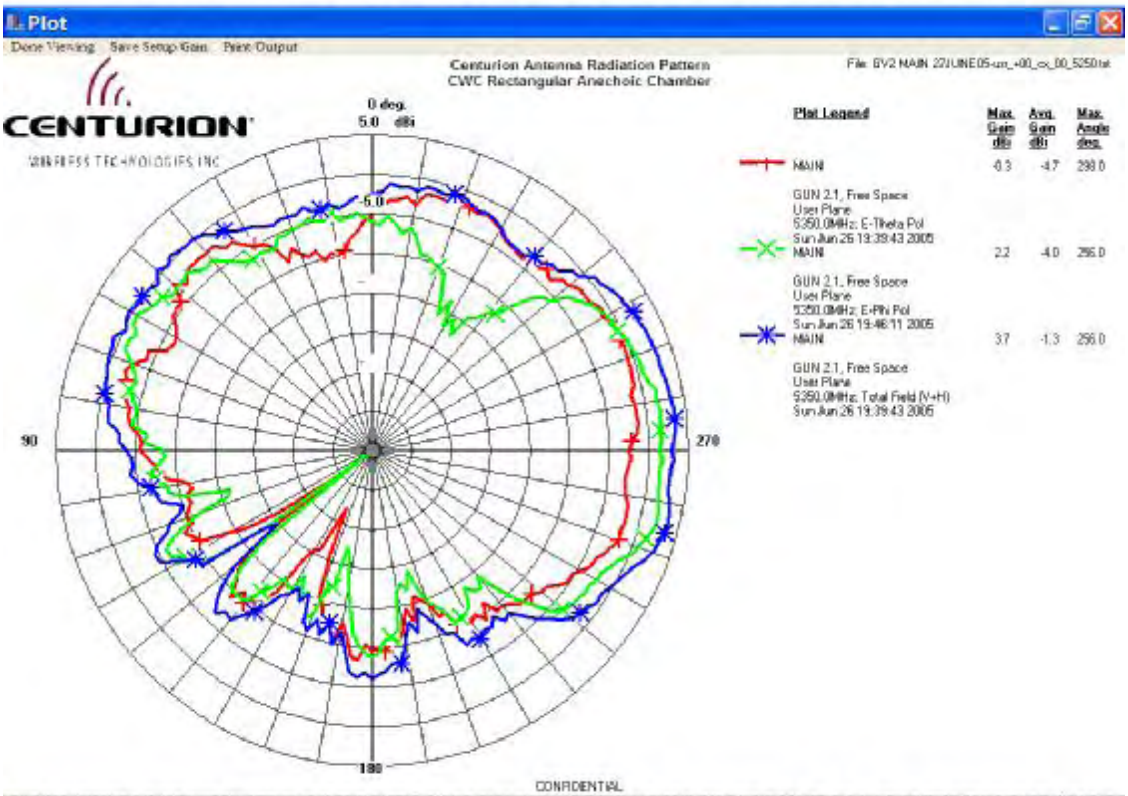

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES, INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 MAIN 27JUNE05-cm_+00_cx_00_2450.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -2.2 -5.3 38.0
GUN 2.1, Free Space
User Plane
2500.0MHz: E-Theta Pol
Sun Jun 26 19:29:23 2005
MAIN -2.6 -6.9 41.9
GUN 2.1, Free Space
User Plane
2500.0MHz: E-Phi Pol
Sun Jun 26 19:31:06 2005
MAIN 0.6 -3.0 38.0
GUN 2.1, Free Space
User Plane
2500.0MHz: Total Field (V+H)
Sun Jun 26 19:29:23 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

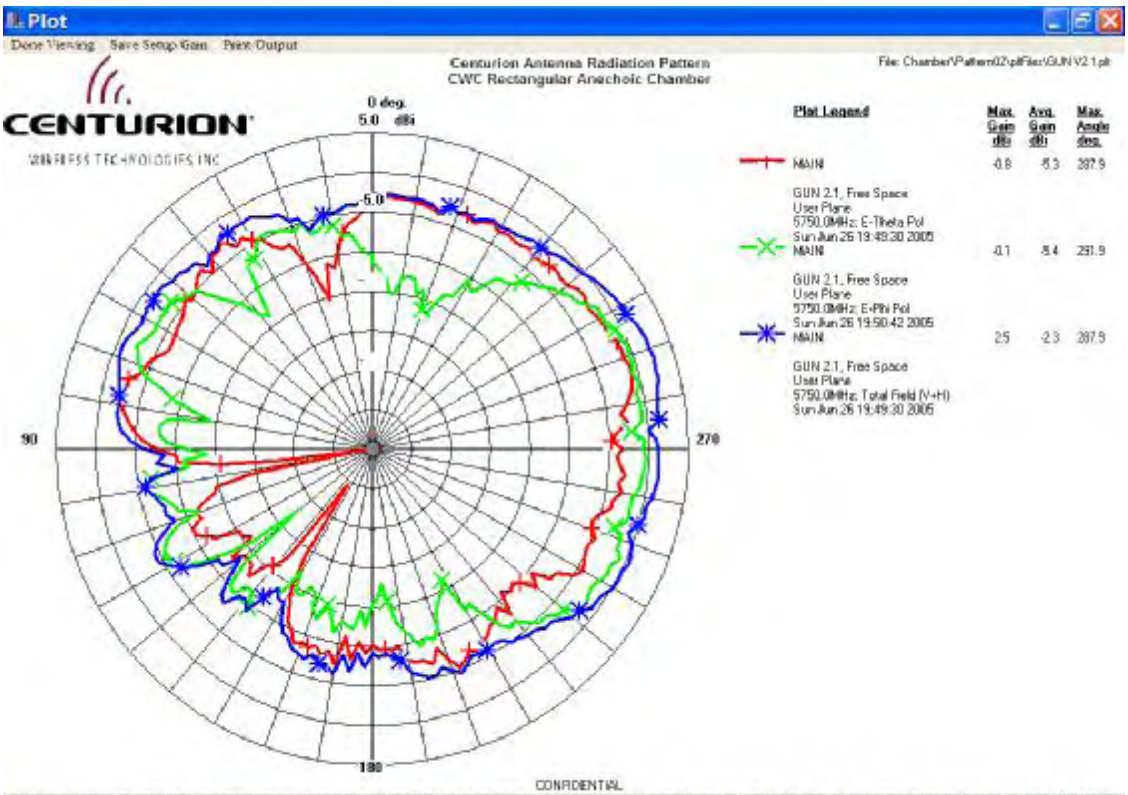

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES, INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -6.1 -4.7 271.9
GUN 2.1, Free Space
User Plane
4500.0MHz: E-Theta Pol
Sun Jun 26 19:32:53 2005
MAIN 2.3 -3.9 262.0
GUN 2.1, Free Space
User Plane
4500.0MHz: E-Phi Pol
Sun Jun 26 19:35:34 2005
MAIN 4.1 -1.2 262.0
GUN 2.1, Free Space
User Plane
4500.0MHz: Total Field (V+H)
Sun Jun 26 19:32:53 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

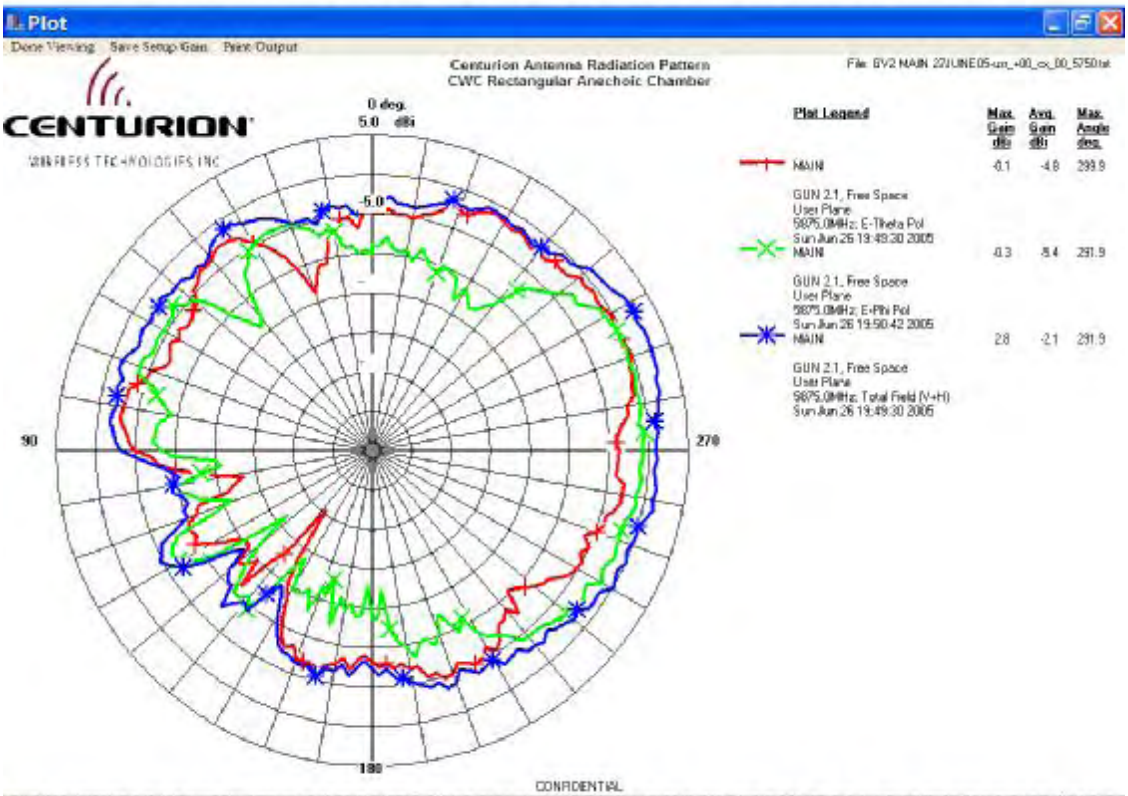

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 MAIN 27JUNE05-cm_+00_cx_00_4900.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN 1.0 -4.4 292.0
GUN 2.1, Free Space
User Plane
9000.0MHz, E-Theta Pol
Sun Jun 26 19:32:53 2005
MAIN 2.2 -3.8 262.0
GUN 2.1, Free Space
User Plane
9000.0MHz, E-Phi Pol
Sun Jun 26 19:35:34 2005
MAIN 4.0 -1.1 262.0
GUN 2.1, Free Space
User Plane
9000.0MHz, Total Field (V+H)
Sun Jun 26 19:32:53 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -0.5 -5.4 296.0
GUN 2.1, Free Space
User Plane
5150.0MHz, E-Theta Pol
Sun Jun 26 19:39:43 2005
MAIN 1.4 -4.7 262.0
GUN 2.1, Free Space
User Plane
5150.0MHz, E-Phi Pol
Sun Jun 26 19:46:11 2005
MAIN 3.3 -2.0 258.0
GUN 2.1, Free Space
User Plane
5150.0MHz, Total Field (V+H)
Sun Jun 26 19:39:43 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

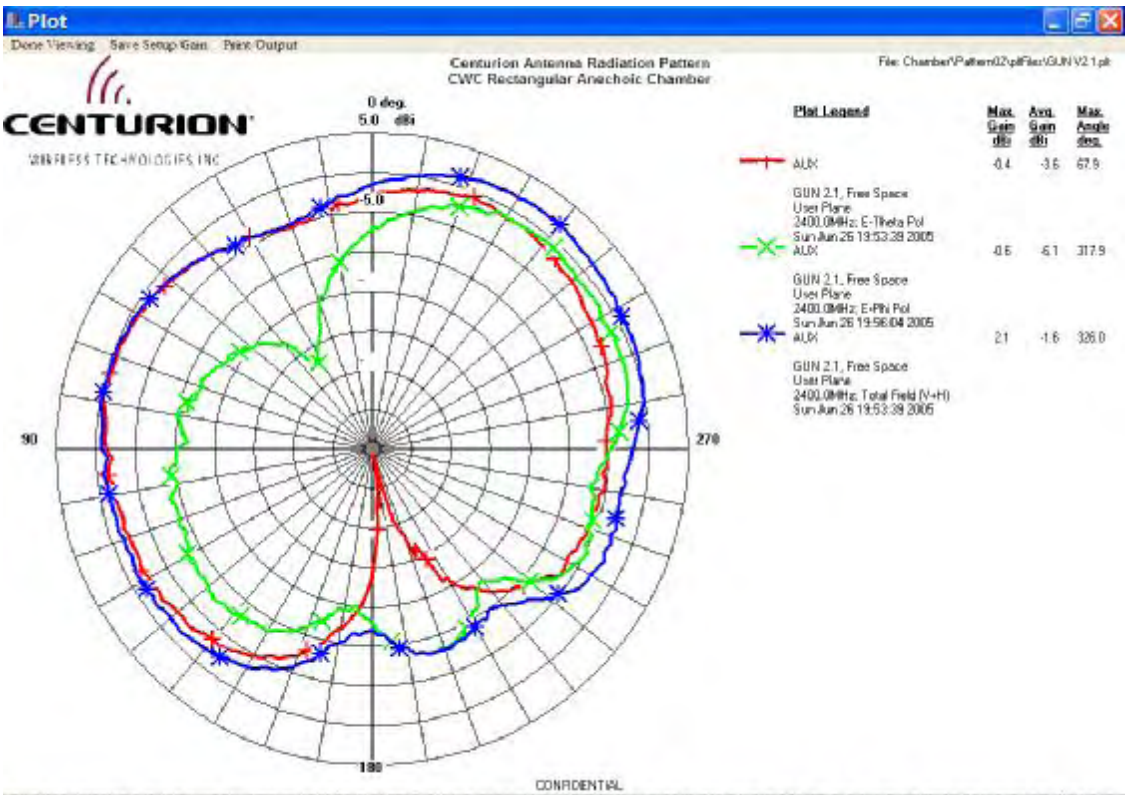

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES, INC.
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 MAIN 27JUNE05-um_+00_cx_00_5150.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -1.1 -5.5 298.0
GUN 2.1, Free Space
User Plane
5250.0MHz: E-Theta Pol
Sun Jun 26 19:39:43 2005
MAIN 2.4 -4.0 262.0
GUN 2.1, Free Space
User Plane
5250.0MHz: E-Phi Pol
Sun Jun 26 19:46:11 2005
MAIN 3.7 -1.7 262.0
GUN 2.1, Free Space
User Plane
5250.0MHz: Total Field (V+H)
Sun Jun 26 19:39:43 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

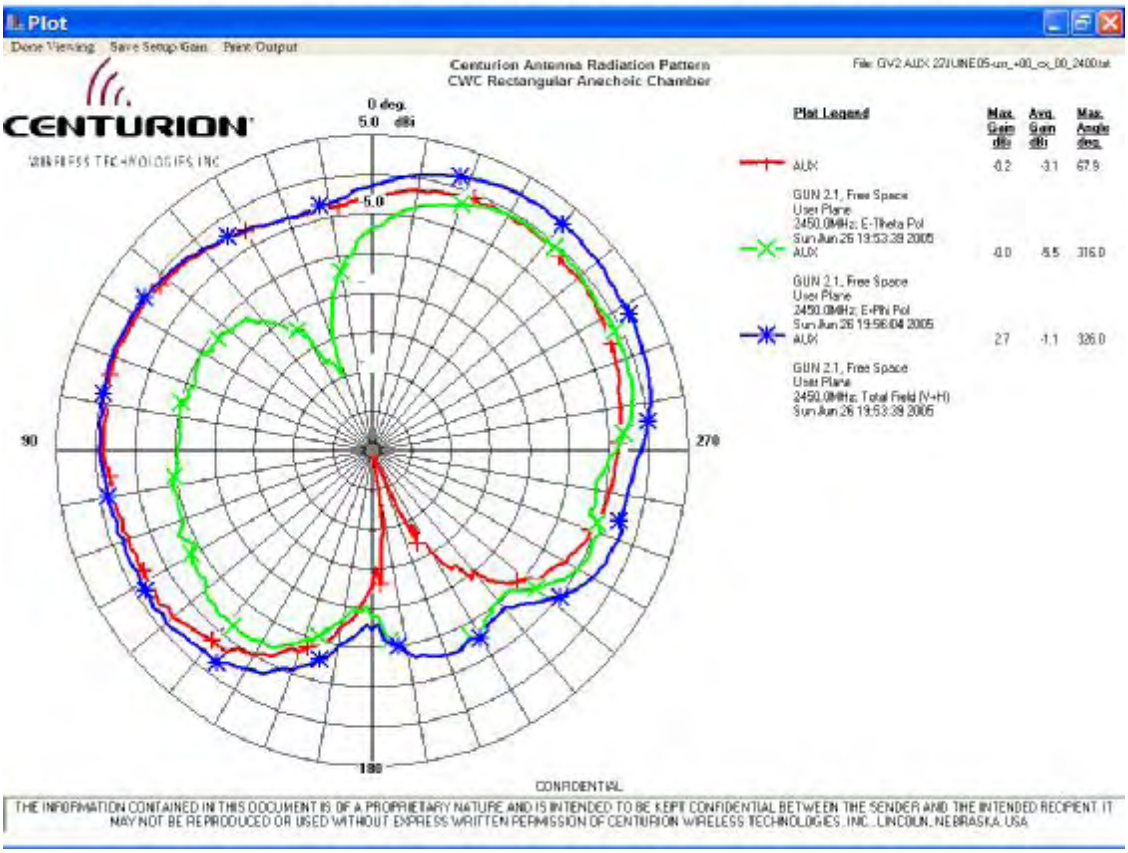

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES, INC.
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 MAIN 27JUNE05-um_+00_cx_00_5250.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -0.3 -4.7 298.0
GUN 2.1, Free Space
User Plane
5350.0MHz: E-Theta Pol
Sun Jun 26 19:39:43 2005
MAIN 2.2 -4.0 256.0
GUN 2.1, Free Space
User Plane
5350.0MHz: E-Phi Pol
Sun Jun 26 19:46:11 2005
MAIN 3.7 -1.3 256.0
GUN 2.1, Free Space
User Plane
5350.0MHz: Total Field (V+H)
Sun Jun 26 19:39:43 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

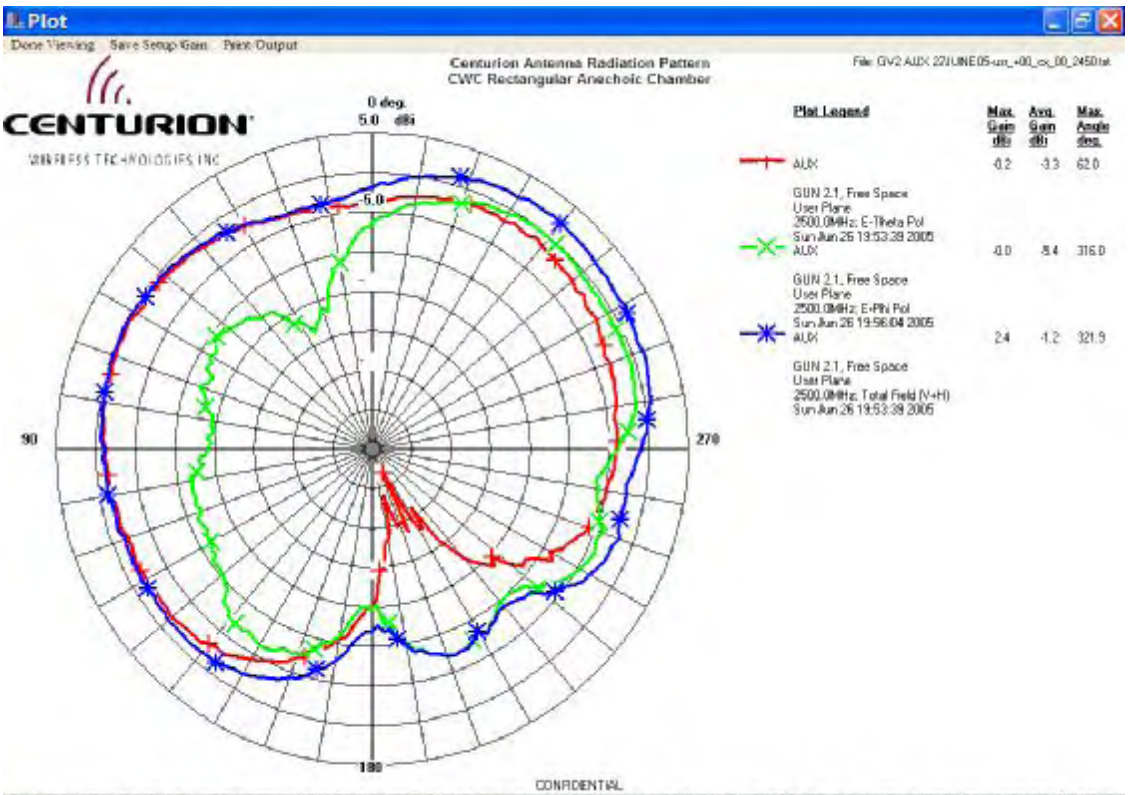

Plot
Done Viewing Save Setup/Gain Print Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -0.8 -5.3 287.9
GUN 2.1, Free Space
User Plane
5750.0MHz, E-Theta Pol
Sun Jun 26 19:49:30 2005
MAIN -0.1 -5.4 291.9
GUN 2.1, Free Space
User Plane
5750.0MHz, E-Phi Pol
Sun Jun 26 19:50:42 2005
MAIN 2.5 -2.3 287.9
GUN 2.1, Free Space
User Plane
5750.0MHz, Total Field (V+H)
Sun Jun 26 19:49:30 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

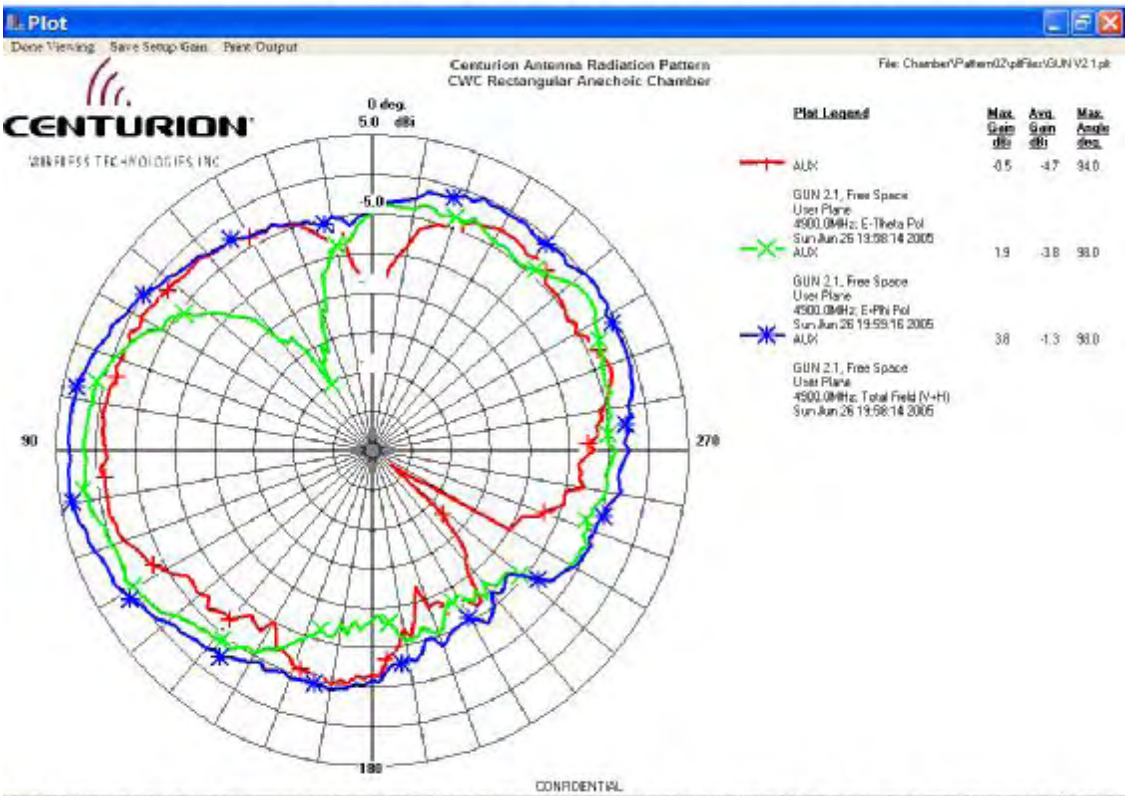

Plot
Done Viewing Save Setup/Gain Print Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -0.1 -4.8 299.9
GUN 2.1, Free Space
User Plane
5875.0MHz, E-Theta Pol
Sun Jun 26 19:49:30 2005
MAIN -0.3 -5.4 291.9
GUN 2.1, Free Space
User Plane
5875.0MHz, E-Phi Pol
Sun Jun 26 19:50:42 2005
MAIN 2.8 -2.1 291.9
GUN 2.1, Free Space
User Plane
5875.0MHz, Total Field (V+H)
Sun Jun 26 19:49:30 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

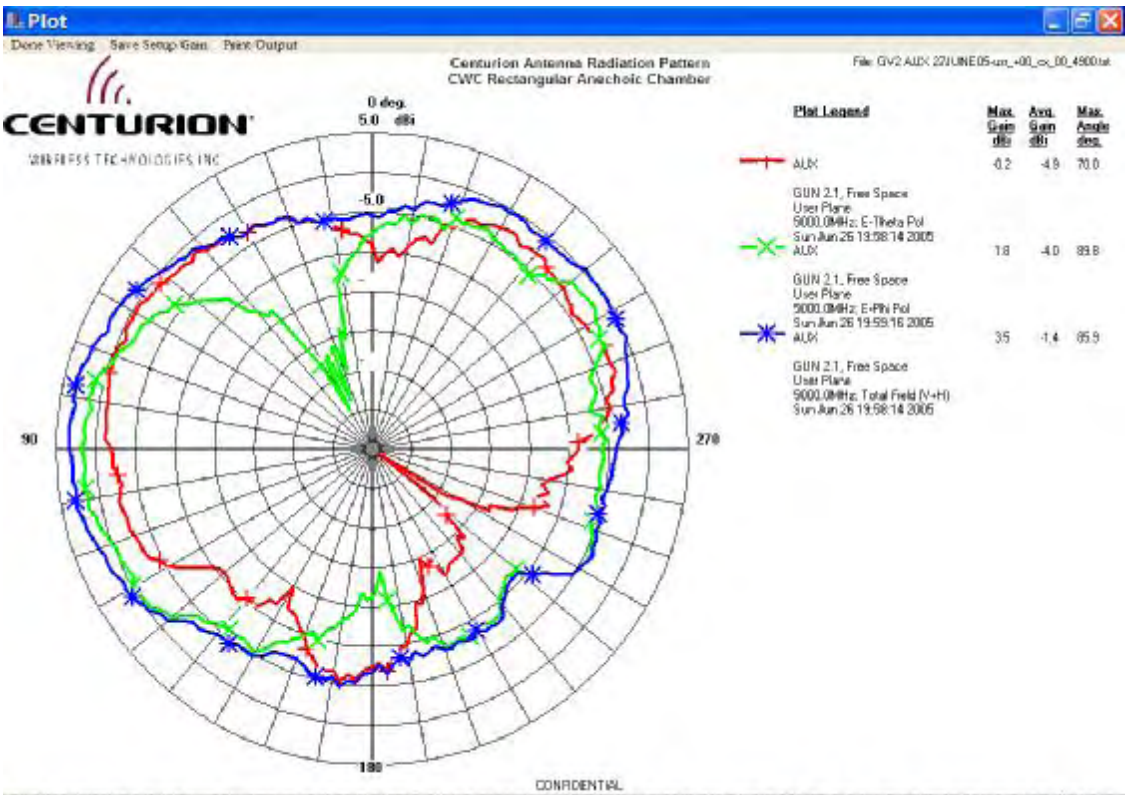
AUX

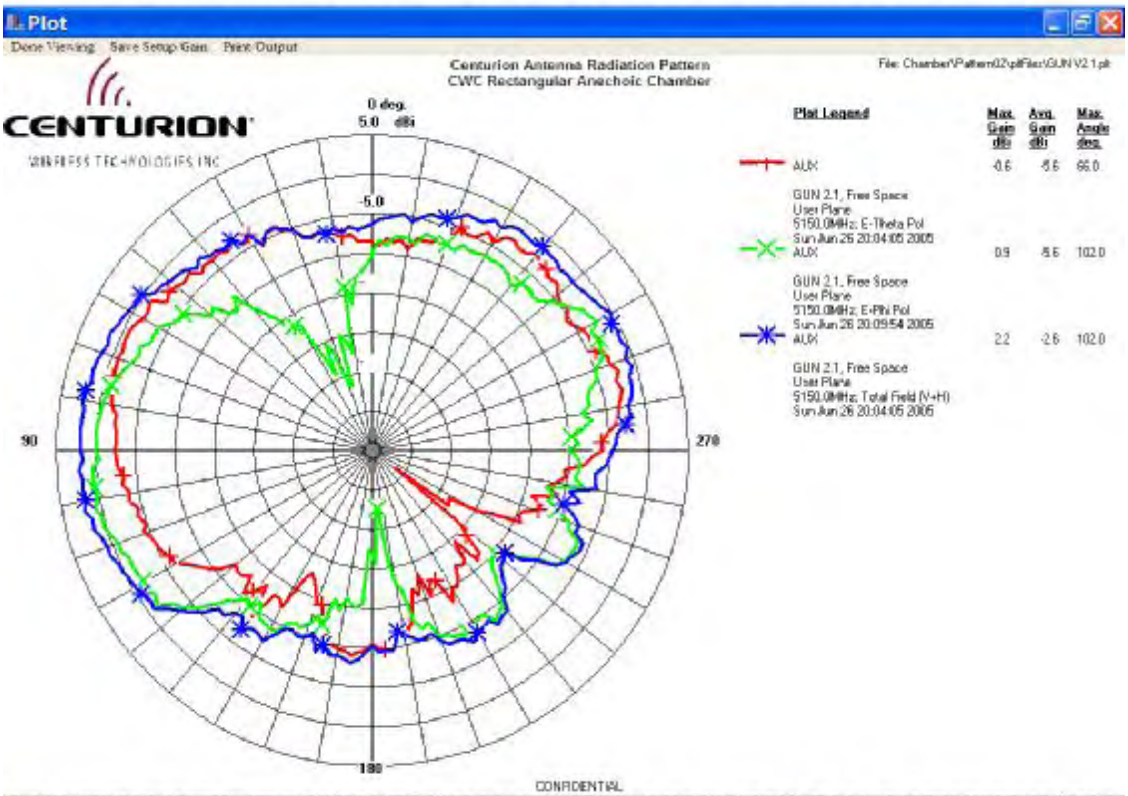

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -0.4 -3.6 67.9
GUN 2.1, Free Space
User Plane
2400.0MHz; E-Theta Pol
Sun Jun 26 19:53:39 2005
AUX -0.6 -5.1 317.9
GUN 2.1, Free Space
User Plane
2400.0MHz; E-Phi Pol
Sun Jun 26 19:56:04 2005
AUX 2.1 -1.6 326.0
GUN 2.1, Free Space
User Plane
2400.0MHz; Total Field (V+H)
Sun Jun 26 19:53:39 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

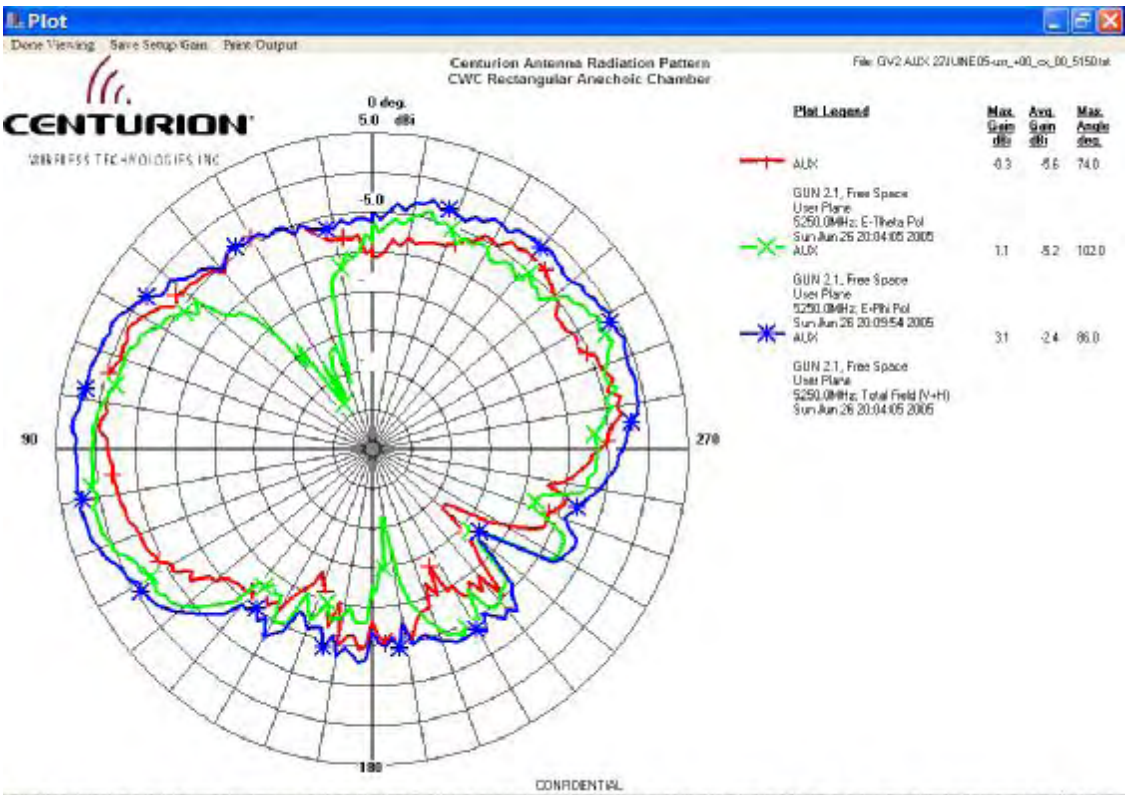

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -0.2 -3.1 67.9
GUN 2.1, Free Space
User Plane
2450.0MHz; E-Theta Pol
Sun Jun 26 19:53:39 2005
AUX -0.0 -5.5 316.0
GUN 2.1, Free Space
User Plane
2450.0MHz; E-Phi Pol
Sun Jun 26 19:56:04 2005
AUX 2.7 -1.1 326.0
GUN 2.1, Free Space
User Plane
2450.0MHz; Total Field (V+H)
Sun Jun 26 19:53:39 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

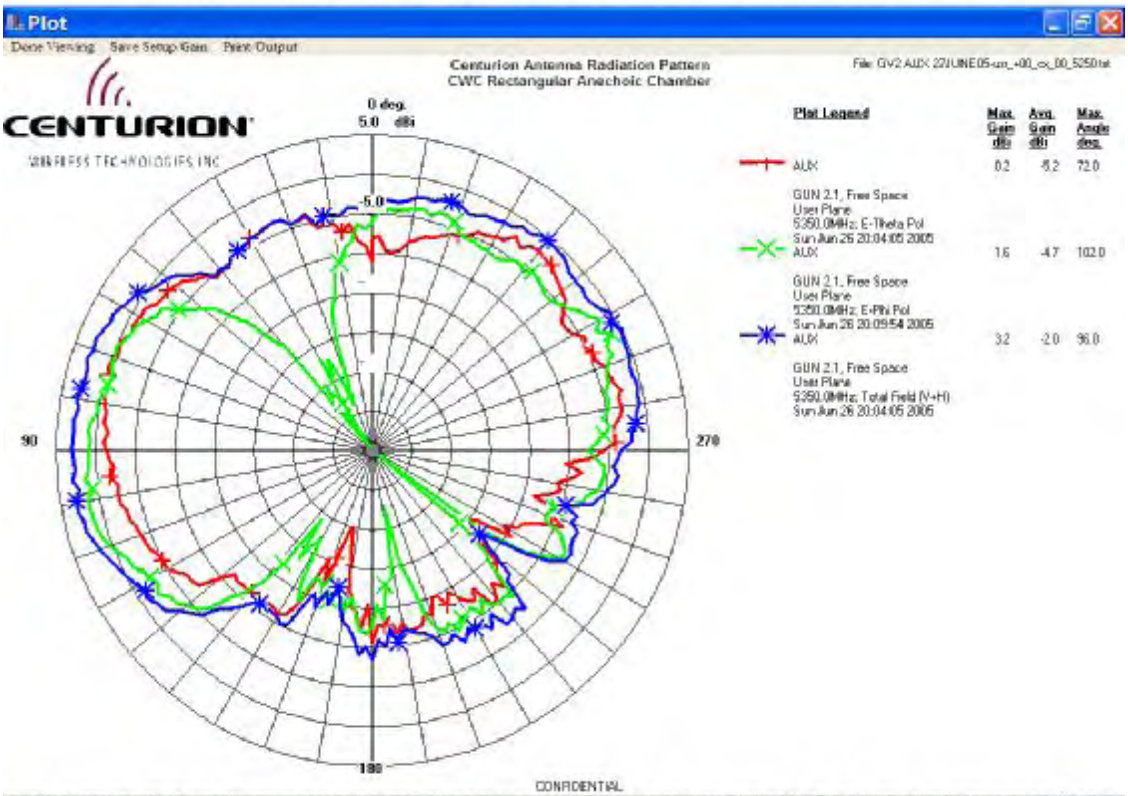

Plot
Done Viewing Save Setup/Gain Print Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -0.2 -3.3 62.0
GUN 2.1, Free Space
User Plane
2500.0MHz, E-Theta Pol
Sun Jun 26 19:53:39 2005
AUX -0.0 -5.4 316.0
GUN 2.1, Free Space
User Plane
2500.0MHz, E-Phi Pol
Sun Jun 26 19:56:04 2005
AUX 2.4 -1.2 321.9
GUN 2.1, Free Space
User Plane
2500.0MHz, Total Field (V+H)
Sun Jun 26 19:53:39 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

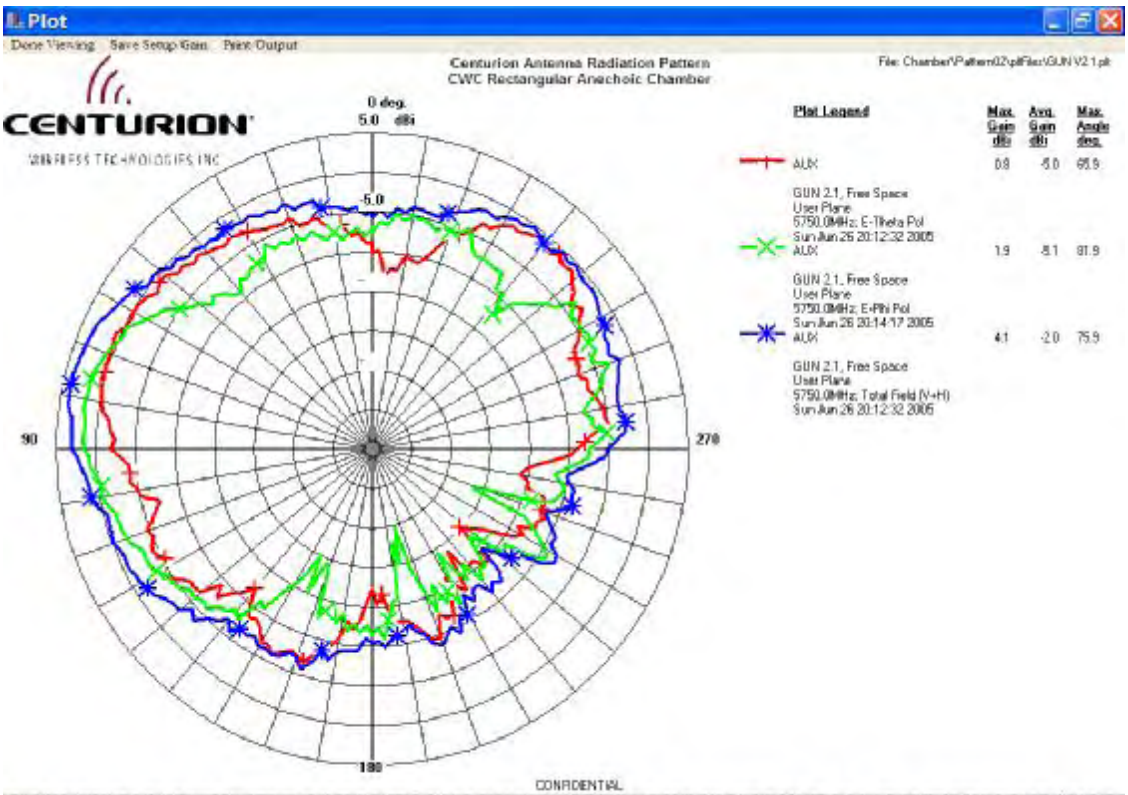

Plot
Done Viewing Save Setup/Gain Print Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -0.5 -4.7 94.0
GUN 2.1, Free Space
User Plane
4900.0MHz, E-Theta Pol
Sun Jun 26 19:58:14 2005
AUX 1.9 -3.8 98.0
GUN 2.1, Free Space
User Plane
4900.0MHz, E-Phi Pol
Sun Jun 26 19:59:16 2005
AUX 3.8 -1.3 98.0
GUN 2.1, Free Space
User Plane
4900.0MHz, Total Field (V+H)
Sun Jun 26 19:58:14 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

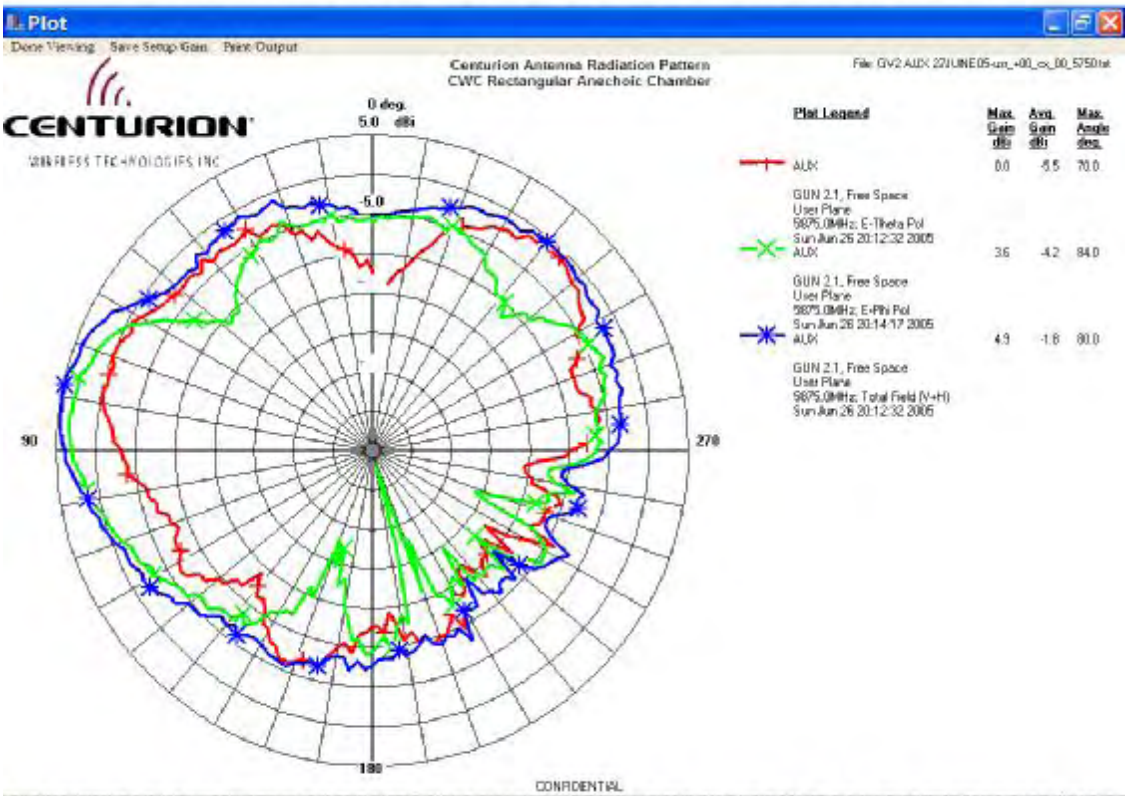

Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2 AUX 27JUNE05-um_+00_cx_00_4900.txt
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -0.2 -4.9 70.0
GUN 2.1, Free Space
User Plane
9000.0MHz, E-Theta Pol
Sun Jun 26 19:58:14 2005
AUX 1.8 -4.0 89.8
GUN 2.1, Free Space
User Plane
9000.0MHz, E-Phi Pol
Sun Jun 26 19:59:16 2005
AUX 3.5 -1.4 85.9
GUN 2.1, Free Space
User Plane
9000.0MHz, Total Field (V+H)
Sun Jun 26 19:58:14 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing Save Setup/Gain Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX -0.6 -5.6 66.0
GUN 2.1, Free Space
User Plane
5150.0MHz, E-Theta Pol
Sun Jun 26 20:04:05 2005
AUX 0.9 -5.6 102.0
GUN 2.1, Free Space
User Plane
5150.0MHz, E-Phi Pol
Sun Jun 26 20:09:54 2005
AUX 2.2 -2.6 102.0
GUN 2.1, Free Space
User Plane
5150.0MHz, Total Field (V+H)
Sun Jun 26 20:04:05 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

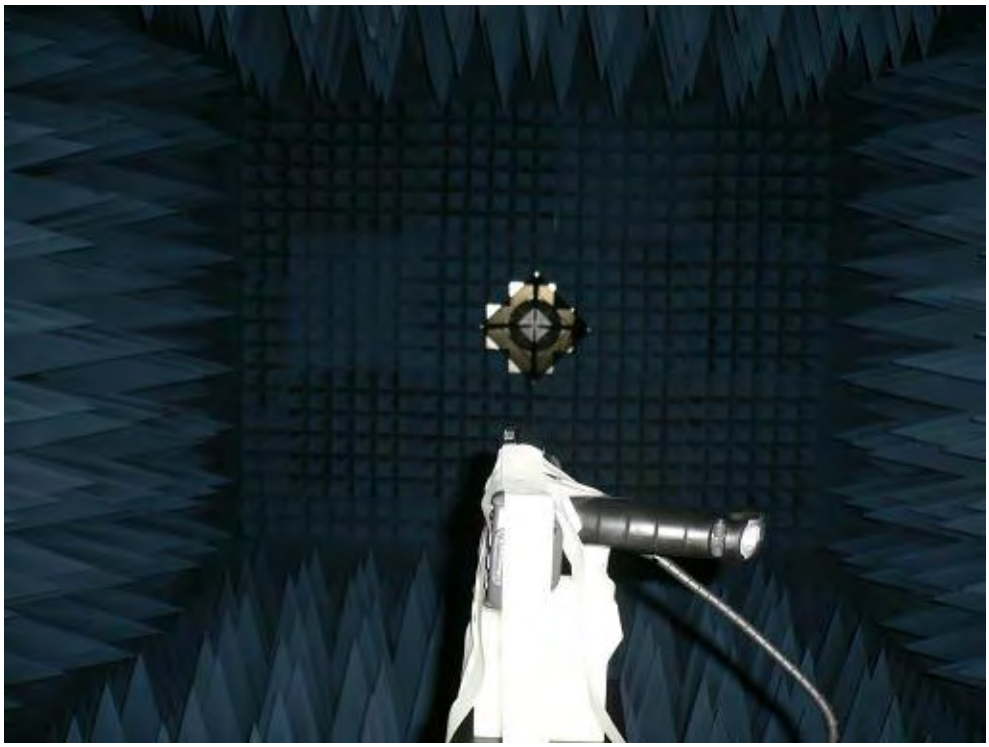

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2 AUX 27JUNE05-um_+00_cx_00_5150.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 0.3 -5.6 74.0
GUN 2.1, Free Space
User Plane
5250.0MHz, E-Theta Pol
Sun Jun 26 20:04:05 2005
AUX 1.1 -5.2 102.0
GUN 2.1, Free Space
User Plane
5250.0MHz, E-Phi Pol
Sun Jun 26 20:09:54 2005
AUX 3.1 -2.4 86.0
GUN 2.1, Free Space
User Plane
5250.0MHz, Total Field (V+H)
Sun Jun 26 20:04:05 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

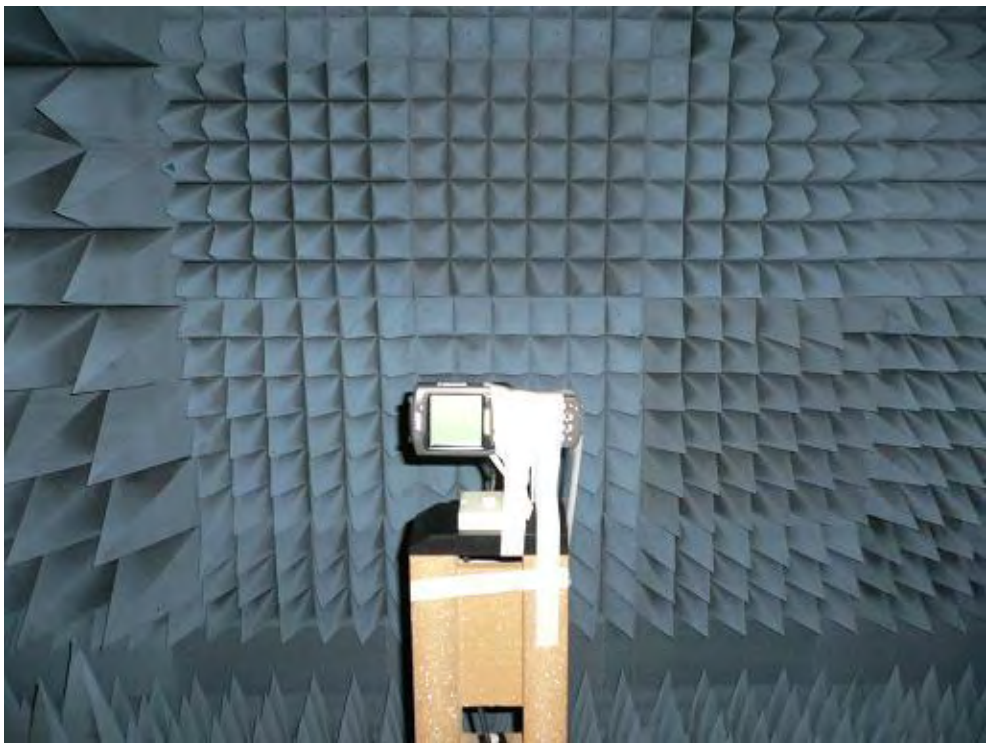

Plot
Done Viewing Save Setup/Gain Print/Output
CENTURION
WIRELESS TECHNOLOGIES INC
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2 AUX 27JUNE05-um_+00_cx_00_5250.txt
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 0.2 -5.2 72.0
GUN 2.1, Free Space
User Plane
5350.0MHz, E-Theta Pol
Sun Jun 26 20:04:05 2005
AUX 1.6 -4.7 102.0
GUN 2.1, Free Space
User Plane
5350.0MHz, E-Phi Pol
Sun Jun 26 20:09:54 2005
AUX 3.2 -2.0 96.0
GUN 2.1, Free Space
User Plane
5350.0MHz, Total Field (V+H)
Sun Jun 26 20:04:05 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
WIRELESS TECHNOLOGIES, INC
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 0.8 -5.0 65.9
GUN 2.1, Free Space
User Plane
5750.0MHz, E-Theta Pol
Sun Jun 26 20:12:32 2005
AUX 1.9 -5.1 81.9
GUN 2.1, Free Space
User Plane
5750.0MHz, E-Phi Pol
Sun Jun 26 20:14:17 2005
AUX 4.1 -2.0 75.9
GUN 2.1, Free Space
User Plane
5750.0MHz, Total Field (V+H)
Sun Jun 26 20:12:32 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

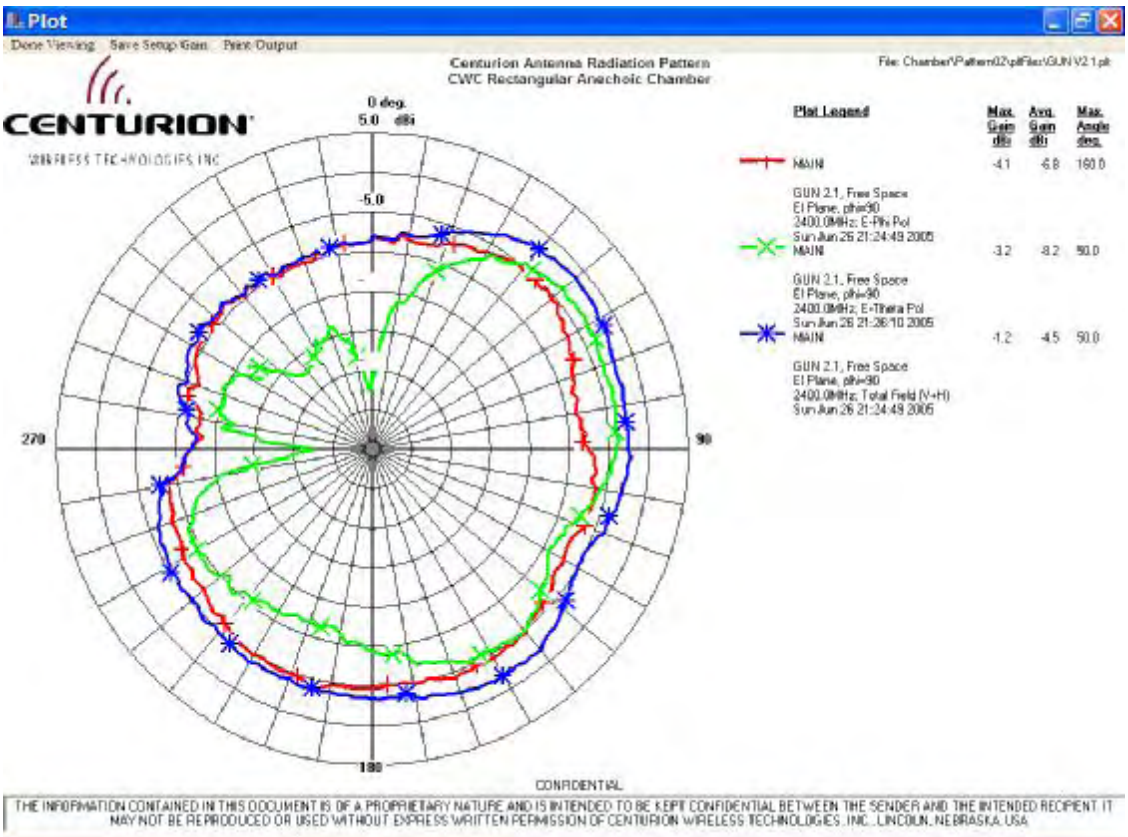

Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: GV2 AUX 27JUNE05-cm_+00_cx_00_5750.txt
CENTURION
WIRELESS TECHNOLOGIES, INC
0 deg.
5.0 dBi
-5.0
90
270
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
AUX 0.0 -5.5 70.0
GUN 2.1, Free Space
User Plane
5875.0MHz, E-Theta Pol
Sun Jun 26 20:12:32 2005
AUX 3.6 -4.2 84.0
GUN 2.1, Free Space
User Plane
5875.0MHz, E-Phi Pol
Sun Jun 26 20:14:17 2005
AUX 4.9 -1.6 80.0
GUN 2.1, Free Space
User Plane
5875.0MHz, Total Field (V+H)
Sun Jun 26 20:12:32 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA

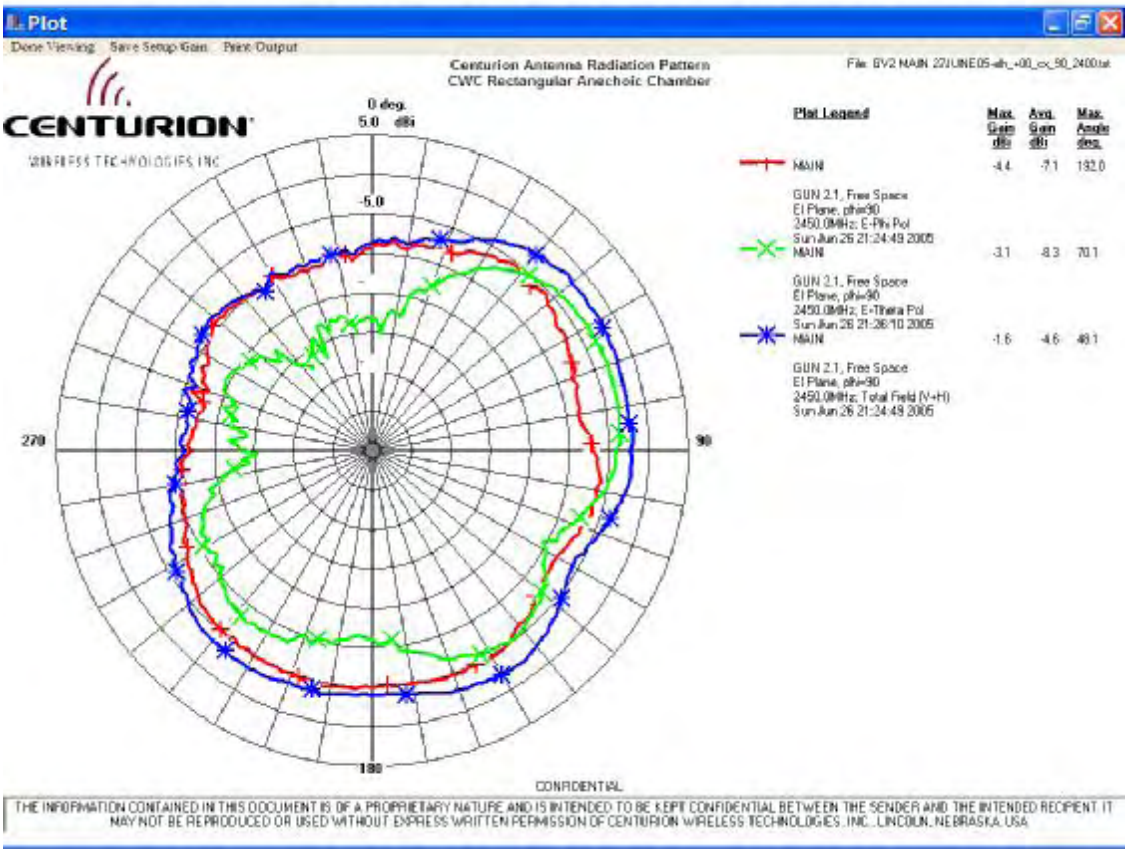
Elevation 90 Position

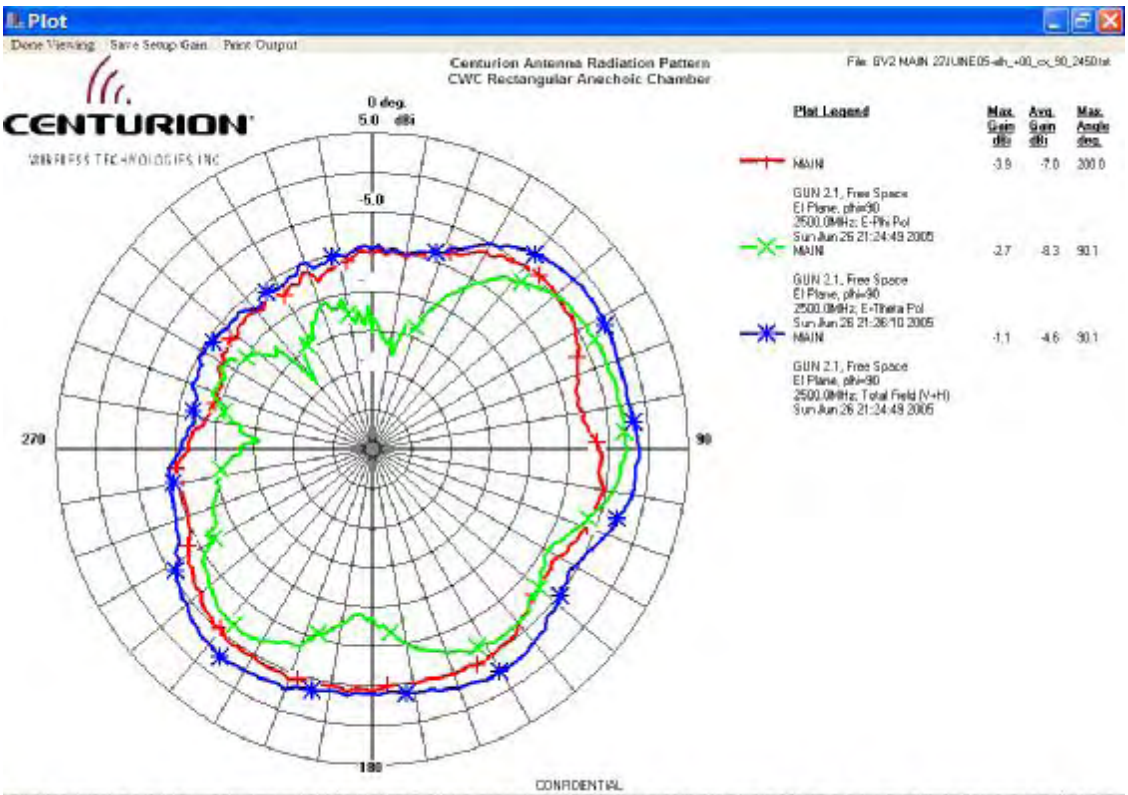


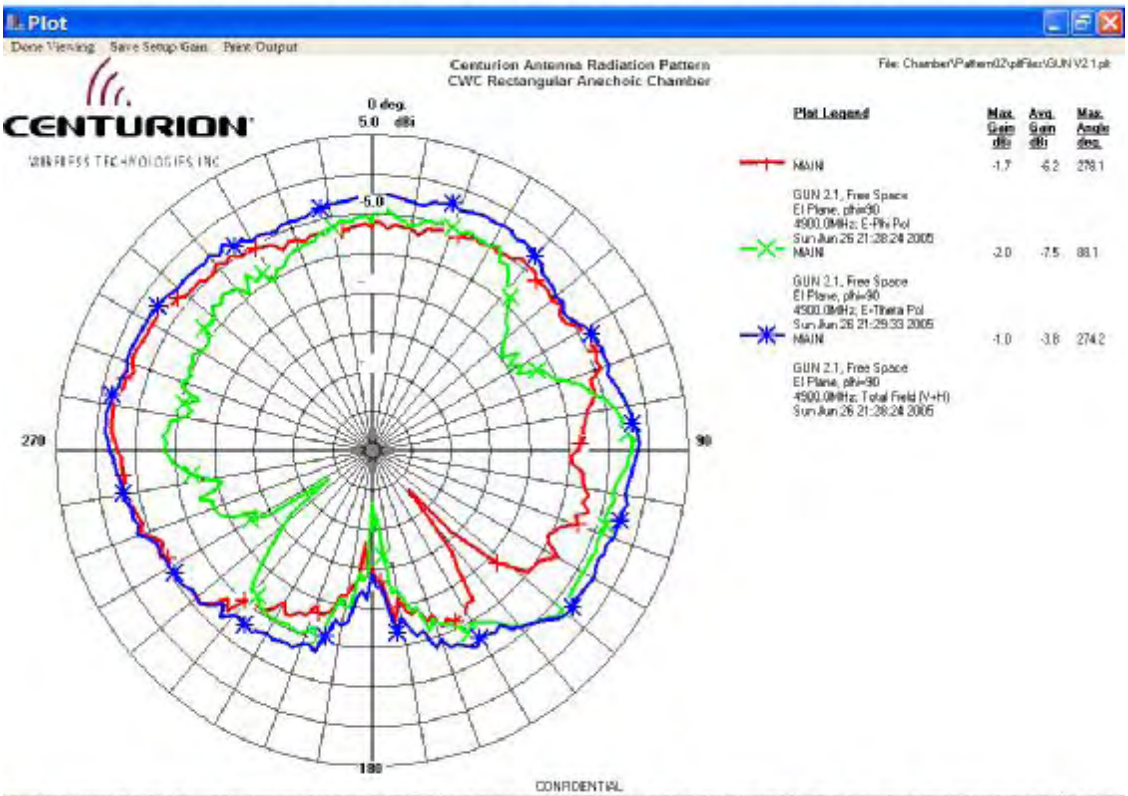


MAIN


Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
270
90
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -4.1 -6.8 160.0
GUN 2.1, Free Space
El Plane, phi=90
2400.0MHz; E-Phi Pol
Sun Jun 26 21:24:49 2005
MAIN -3.2 -8.2 50.0
GUN 2.1, Free Space
El Plane, phi=90
2400.0MHz; E-Theta Pol
Sun Jun 26 21:26:10 2005
MAIN -1.2 -4.5 50.0
GUN 2.1, Free Space
El Plane, phi=90
2400.0MHz; Total Field (V+H)
Sun Jun 26 21:24:49 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing Save Setup/Gain Print/Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
CENTURION
0 deg.
5.0 dBi
-5.0
270
90
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -4.4 -7.1 192.0
GUN 2.1, Free Space
El Plane, phi=90
2450.0MHz; E-Phi Pol
Sun Jun 26 21:24:49 2005
MAIN -3.1 -8.3 70.1
GUN 2.1, Free Space
El Plane, phi=90
2450.0MHz; E-Theta Pol
Sun Jun 26 21:26:10 2005
MAIN -1.6 -4.6 49.1
GUN 2.1, Free Space
El Plane, phi=90
2450.0MHz; Total Field (V+H)
Sun Jun 26 21:24:49 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: BV2 MAIN 27JUNE05-ah_+00_cx_90_2450.txt
CENTURION
0 deg.
5.0 dBi
-5.0
270
90
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -3.9 -7.0 200.0
GUN 2.1, Free Space
El Plane, phi=90
2500.0MHz; E-Phi Pol
Sun Jun 26 21:24:49 2005
MAIN -2.7 -8.3 90.1
GUN 2.1, Free Space
El Plane, phi=90
2500.0MHz; E-Theta Pol
Sun Jun 26 21:26:10 2005
MAIN -1.1 -4.6 90.1
GUN 2.1, Free Space
El Plane, phi=90
2500.0MHz; Total Field (V+H)
Sun Jun 26 21:24:49 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA


Plot
Done Viewing
Save Setup/Gain
Print Output
Centurion Antenna Radiation Pattern
CWC Rectangular Anechoic Chamber
File: Chamber\Pattern02\plFiles\GUN V2.1.pl
CENTURION
0 deg.
5.0 dBi
-5.0
270
90
180
Plot Legend
Max. Gain dBi
Avg. Gain dBi
Max. Angle deg.
MAIN -1.7 -6.2 278.1
GUN 2.1, Free Space
El Plane, phi=90
4500.0MHz; E-Phi Pol
Sun Jun 26 21:28:24 2005
MAIN -2.0 -7.5 88.1
GUN 2.1, Free Space
El Plane, phi=90
4500.0MHz; E-Theta Pol
Sun Jun 26 21:29:33 2005
MAIN -1.0 -3.6 274.2
GUN 2.1, Free Space
El Plane, phi=90
4500.0MHz; Total Field (V+H)
Sun Jun 26 21:28:24 2005
CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DOCUMENT IS OF A PROPRIETARY NATURE AND IS INTENDED TO BE KEPT CONFIDENTIAL BETWEEN THE SENDER AND THE INTENDED RECIPIENT. IT MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESS WRITTEN PERMISSION OF CENTURION WIRELESS TECHNOLOGIES, INC., LINCOLN, NEBRASKA, USA