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	Curitel _PN-218_Summary20060320A	Mar .20, 2006

ELECTRICAL PERFORMANCE REPORT

PN-218 DCS/PCS **ANTENNA**

PREPARED BY

CENTURION ELECTRONICS SHANGHAI, LTD.

Mar. 2006

General Information				
Customer		Curitel		
Location		Korea		
Frequency Band, MHz		DCS(824~894), PCS(1850~1990)		
Antenna Type:		Retractable		
Input Connection	nput Connection:		Screw in	
Prepared by:	GaryYang	File	G:\\CHAMBER\ Curitel_PN-218_Summary20060320Adoc	
Comments:				

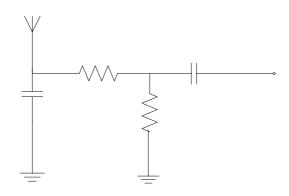
Two kinds antennas were used in this measurement, Nature color resin painted antenna and Black color resin painted antenna, matching circuit as below.



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1. Matching circuit

In this measurement, the following matching circuit is used.



Matching circuit

2. VSWR

Electrical Performance Summary: VSWR					
Specification:	Unspecified				
Measurement Configuration	Data				
	Freq.	VSWR			
- Fixture No.: - Free Space	(MHz)	Nature	Black		
- Free Space	824	1.5	1.4		
	894	1.8	1.8		
	1850	2.5	2.8		
	1990	2.5	2.4		

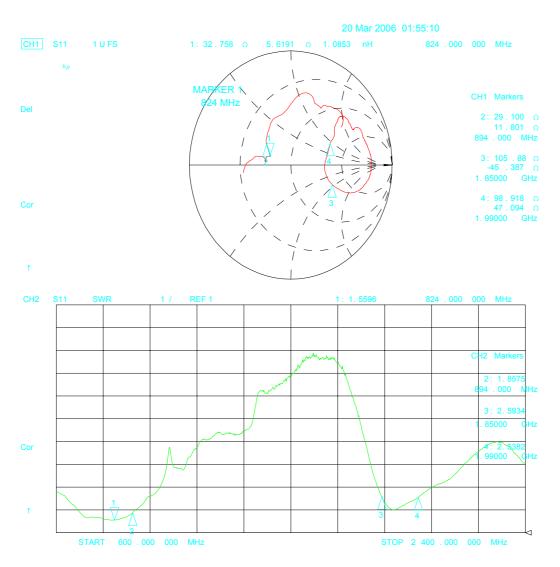
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3. Gain

Electrica	l Performance Su	mmary: Avera	ge & Peak G	ain (dBi)		
Specification:		Unspecified				
Measurement Configuration	Data					
- Fixture No.: - Free Space - Elevation Phi=0 Plane - THETA=0° to 360°	Freq. (MHz)		Peak Gain (dBi)		Average Gain (dBi)	
		Nature	Black	Nature	Black	
	824	-0.0	0.0	-3.5	-3.5	
	849	0.3	0.4	-3.4	-3.3	
	869	-0.1	-0.1	-3.8	-3.8	
	894	0.2	0.2	-3.2	-3.3	
	1850	0.4	0.1	-4.3	-4.5	
	1910	1.2	1.1	-3.4	-3.3	
	1930	1.5	1.4	-3.0	-3.0	
	1990	2.1	1.8	-2.6	-2.6	
- Fixture No.:	Freq. (MHz)					
 Free Space Elevation Phi=90 Plane THETA=0° to 360° 	824	0.2	0.2	-3.8	-3.8	
	849	0.2	0.1	-3.7	-3.8	
-	869	-0.2	-0.2	-4.1	-4.1	
	894	0.6	0.6	-3.4	-3.4	
	1850	-1.5	-1.8	-6.1	-6.3	
	1910	-0.4	-0.5	-5.0	-5.1	
	1930	0.1	-0.1	-4.5	-4.6	
	1990	0.3	0.3	-4.5	-4.6	
- Fixture No.: - Free Space: - Azimuth Plane - THETA=0° to 360°	Freq. (MHz)					
	824	0.6	0.6	-1.1	-1.1	
	849	0.6	0.5	-0.9	-1.0	
-	869	0.3	0.2	-1.2	-1.3	
	894	0.9	8.0	-0.5	-0.5	
	1850	-0.2	-0.4	-4.1	-4.3	
	1910	1.5	1.4	-2.6	-2.7	
	1930	1.7	1.6	-2.5	-2.6	
	1990	2.0	1.8	-2.5	-2.6	

ANTENNA ELECTRICAL SUMMARY

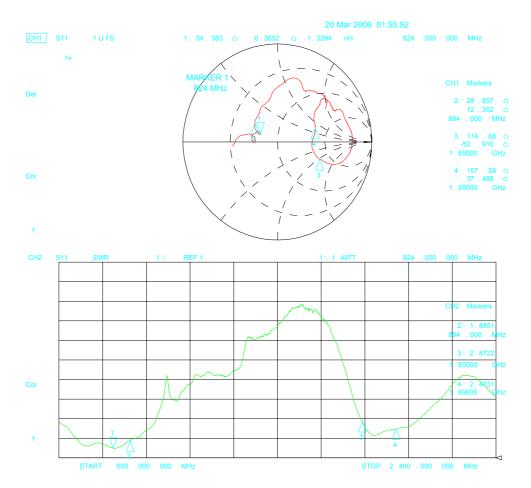


Return loss vs. frequency (Flip Open)

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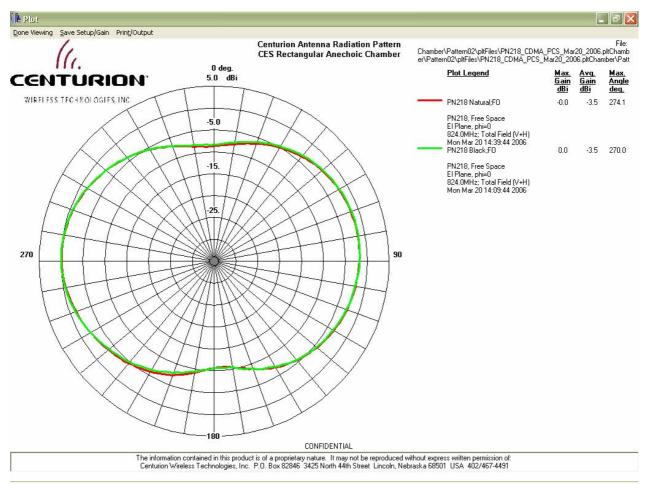
Return loss vs. frequency (Flip Close)

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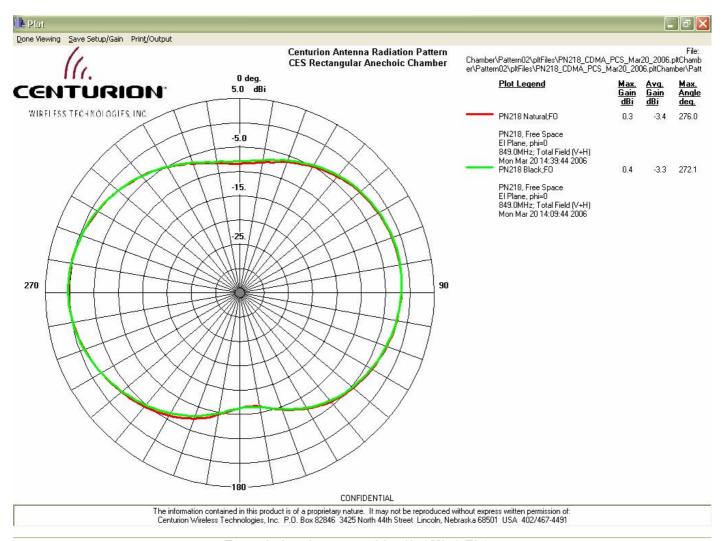
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Extended and open position(824Mhz)-EL0



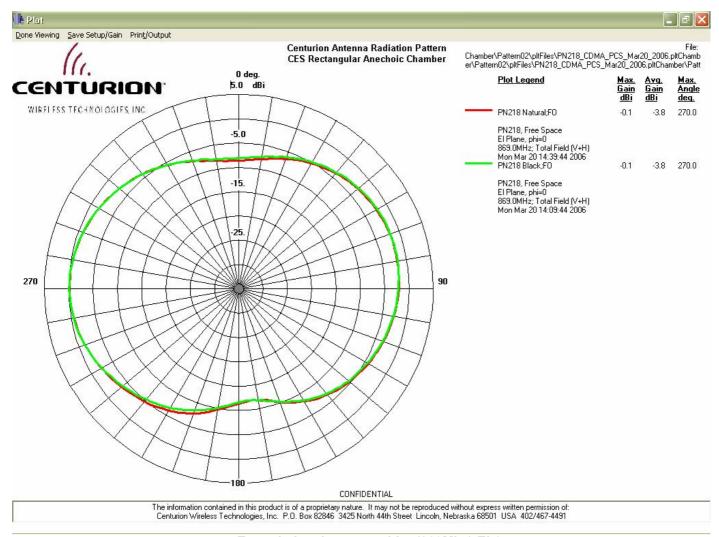
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Extended and open position(849Mhz)-EL0



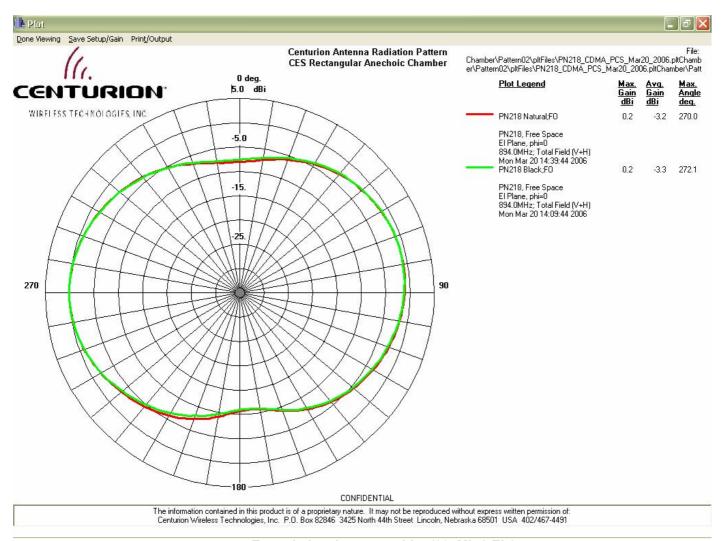
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Extended and open position(869Mhz)-EL0



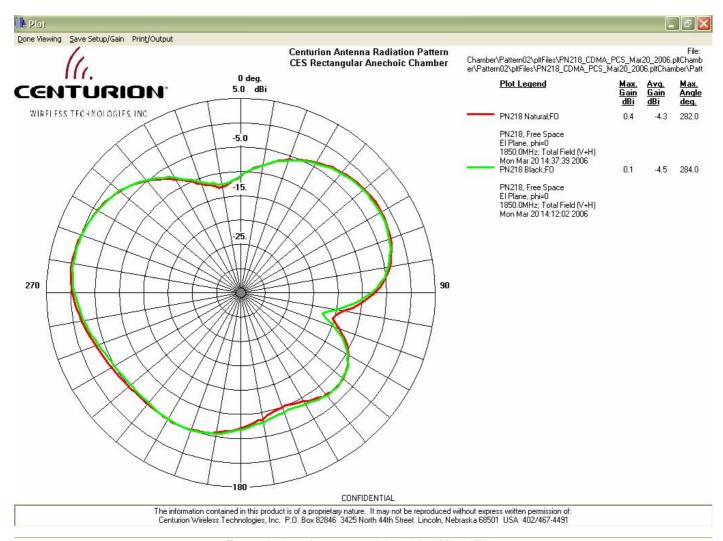
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Extended and open position(894Mhz)-EL0



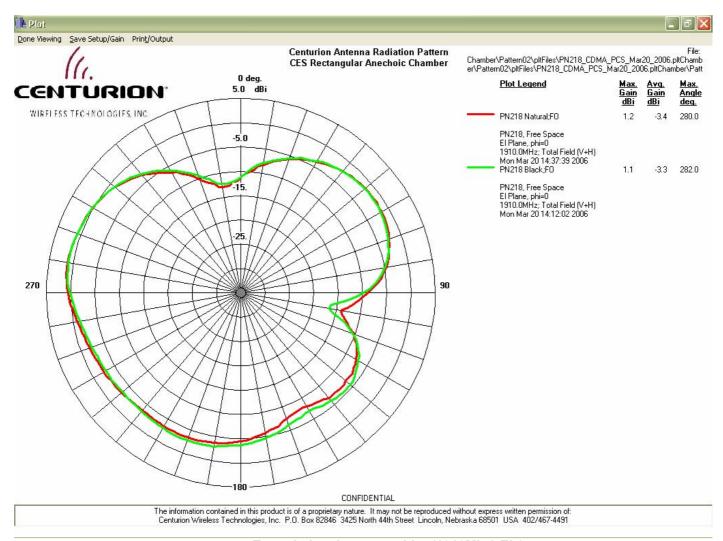
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Extended and open position(1850Mhz)-EL0



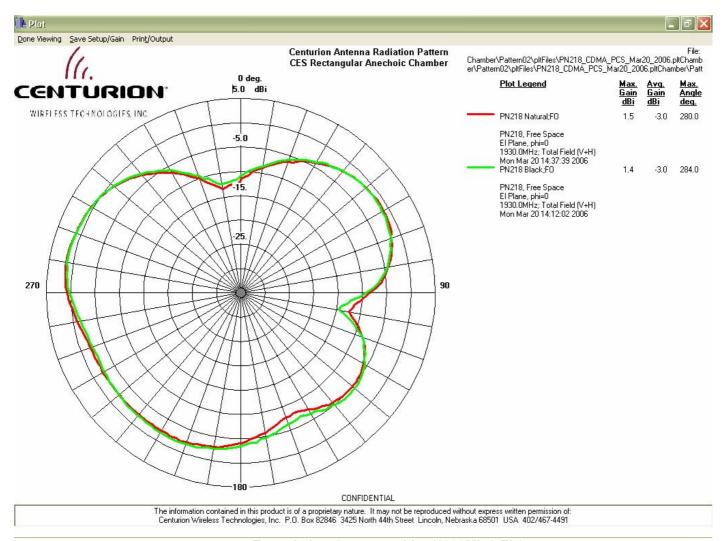
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Extended and open position(1910Mhz)-EL0



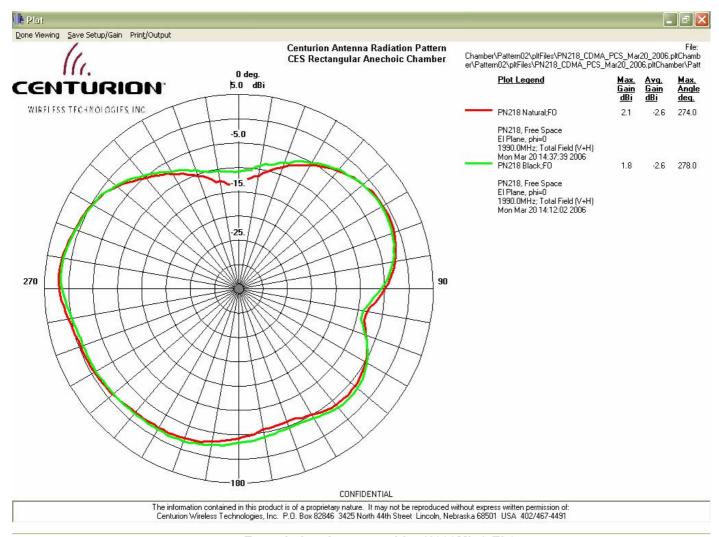
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Extended and open position(1930Mhz)-EL0



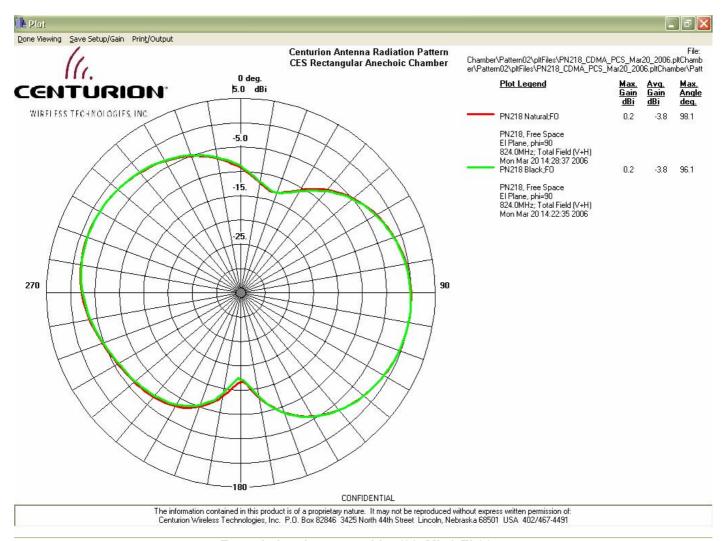
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Extended and open position(1990Mhz)-EL0



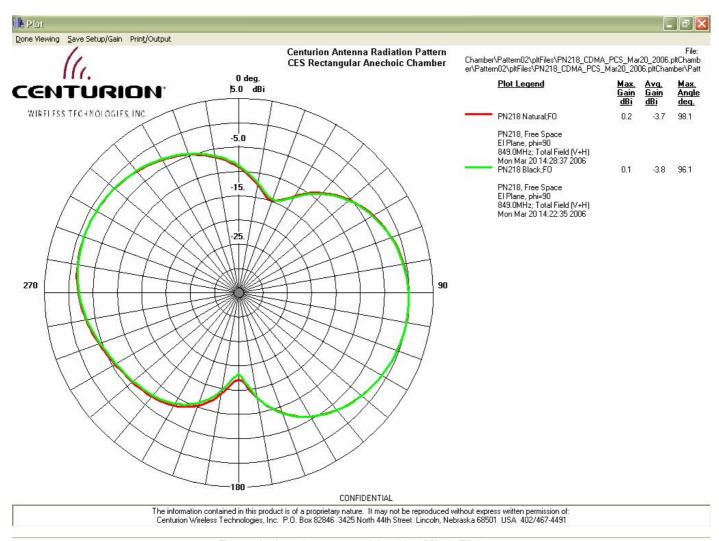
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Extended and open position(824Mhz)-EL90



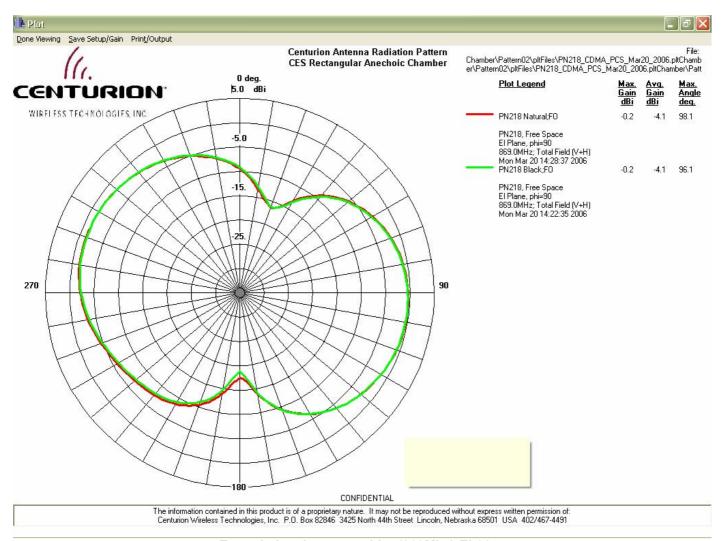
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Extended and open position(849Mhz)-EL90



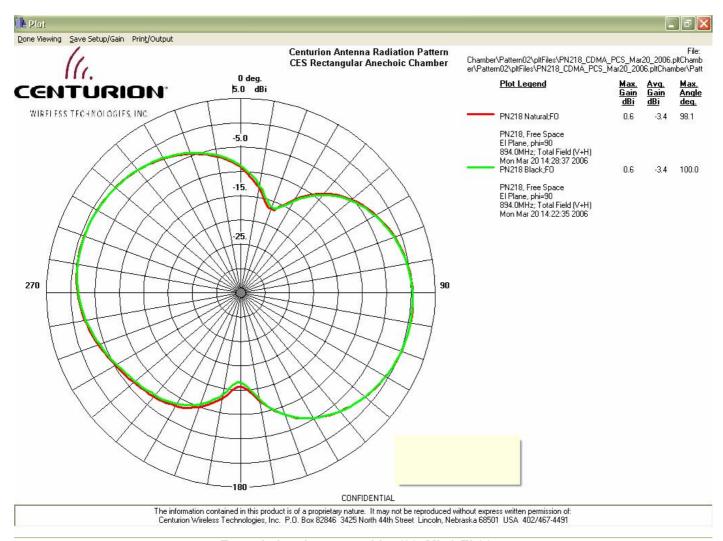
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Extended and open position(869Mhz)-EL90



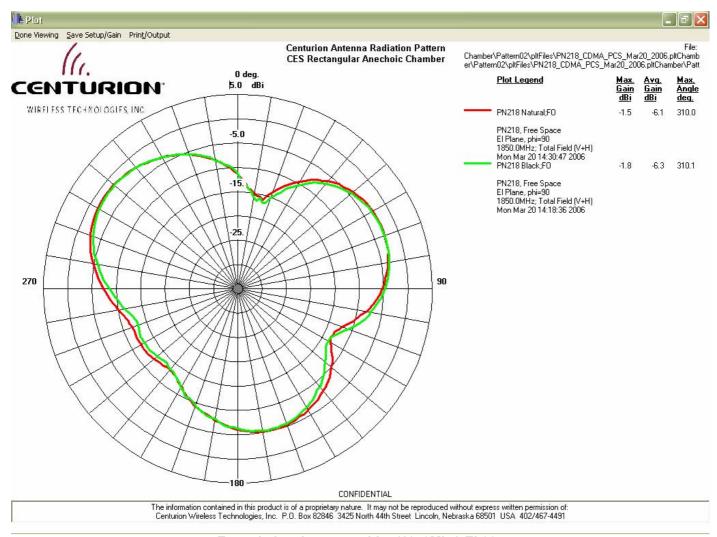
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Extended and open position(894Mhz)-EL90



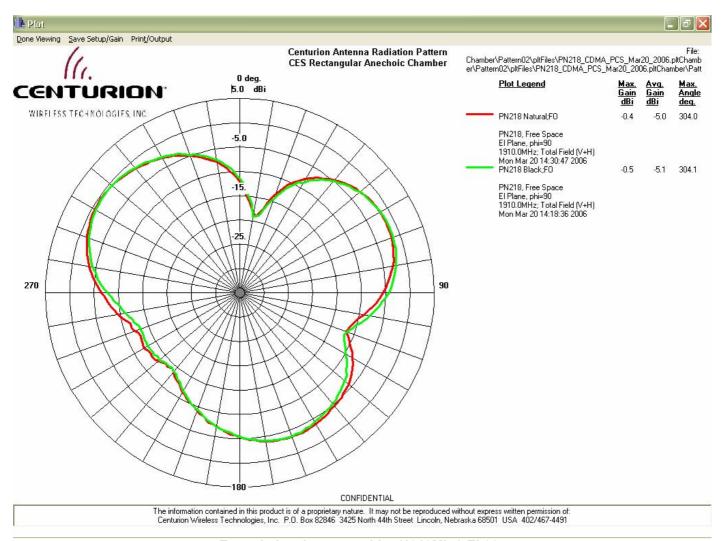
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Extended and open position(1850Mhz)-EL90



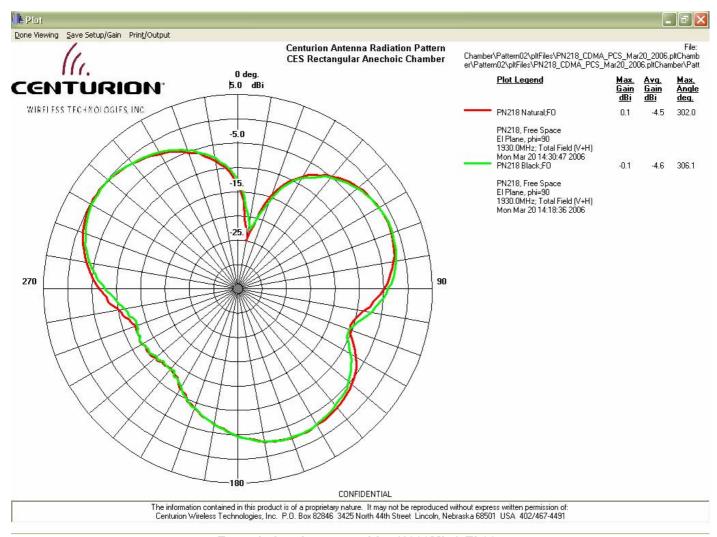
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Extended and open position(1910Mhz)-EL90



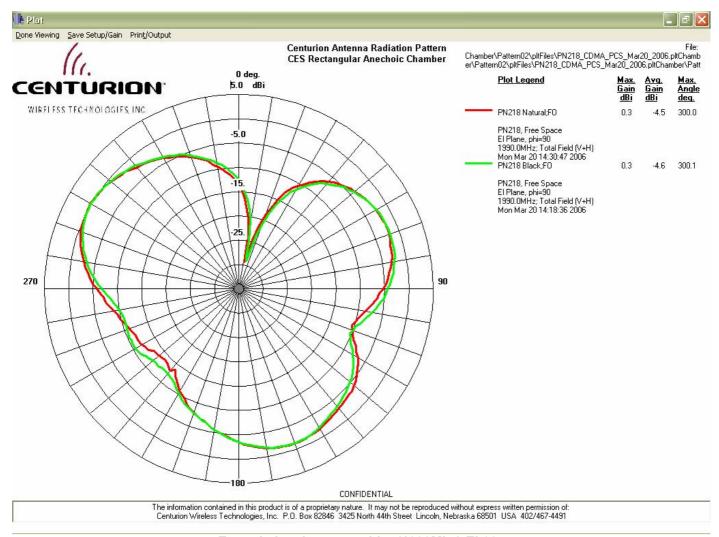
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Extended and open position(1930Mhz)-EL90



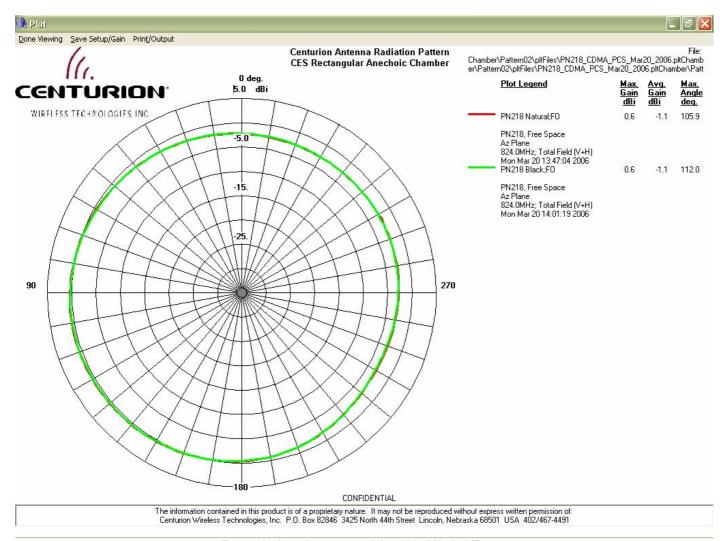
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Extended and open position(1990Mhz)-EL90



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Extended and open position(824Mhz)-AZ



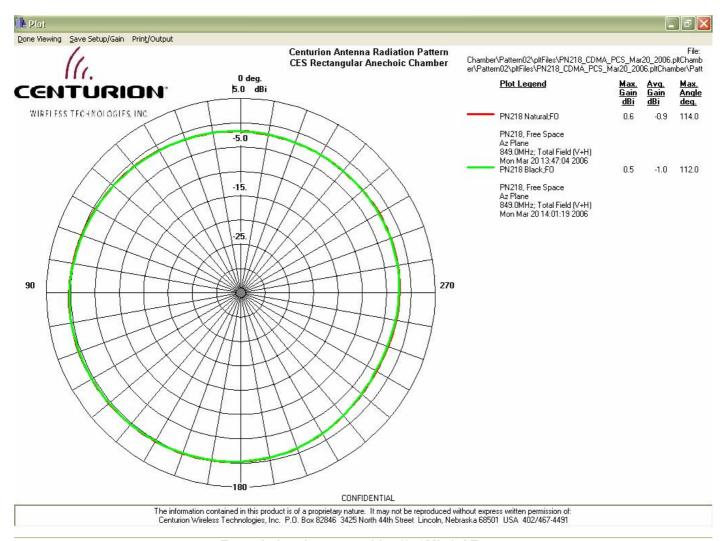
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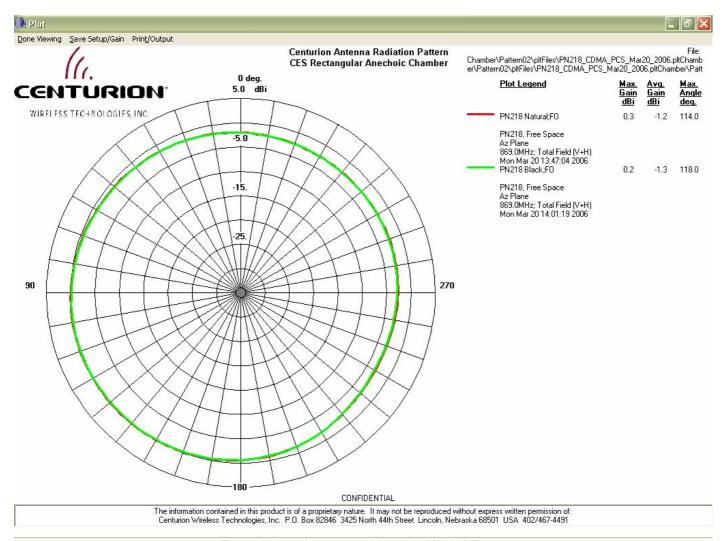


Extended and open position(849Mhz)-AZ

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Extended and open position(869Mhz)-AZ



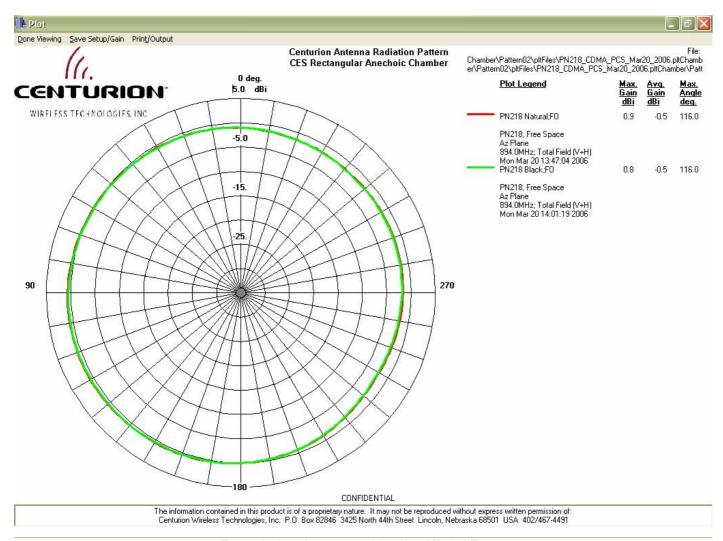
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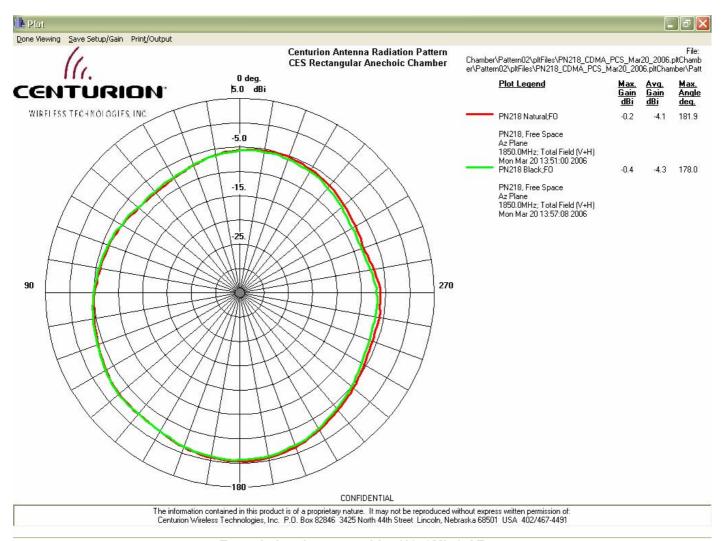


Extended and open position(894Mhz)-AZ

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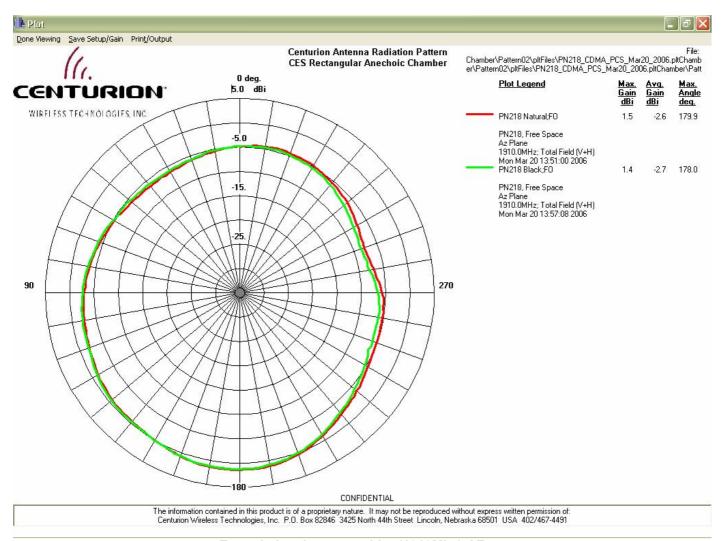
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Extended and open position(1850Mhz)-AZ



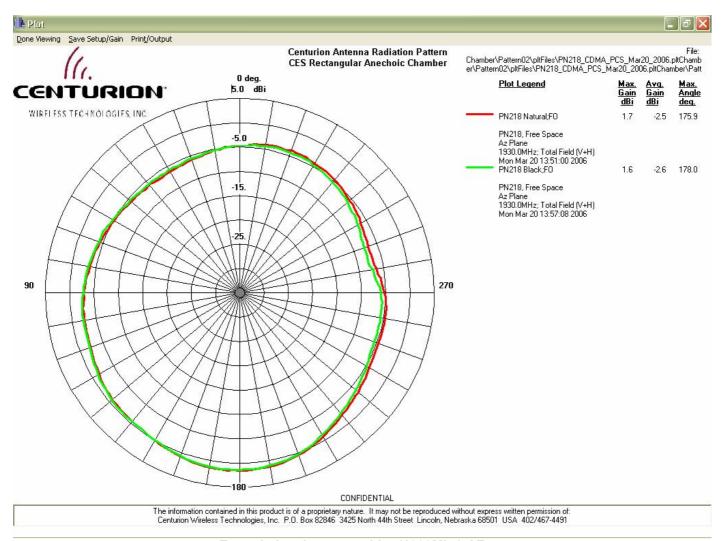
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Extended and open position(1910Mhz)-AZ



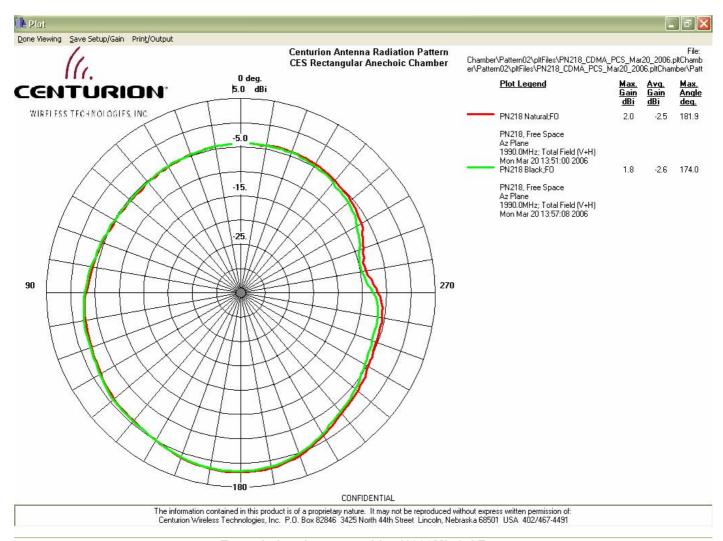
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Extended and open position(1930Mhz)-AZ



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Extended and open position(1990Mhz)-AZ

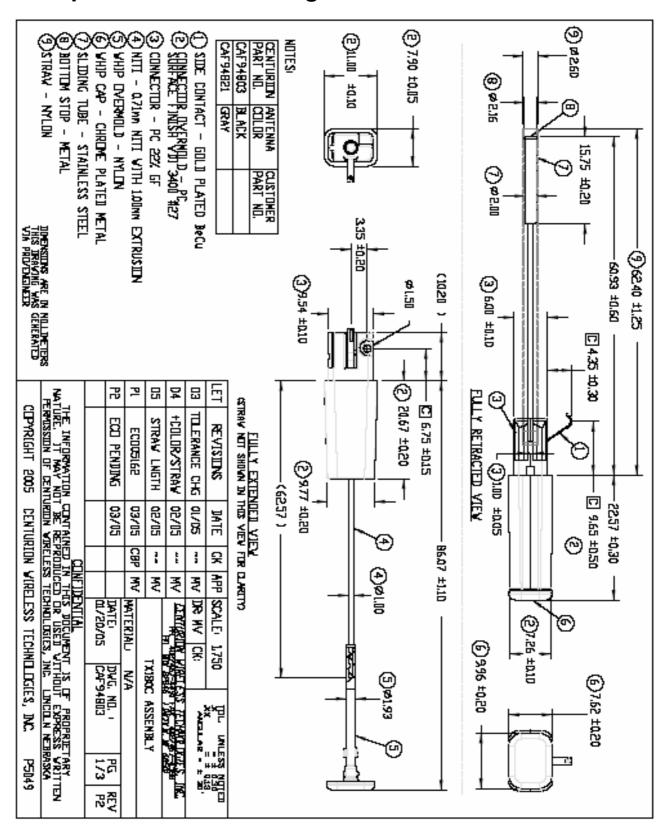


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4. Specifications Drawing



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