



## PDM245115H-CS2

### 4-Port Directional H/V MIMO Antenna 2400-2500 MHz / 5150-5900 MHz

The PDM245115H-CS2 antenna is a four-port directional antenna for use in 802.11 MIMO applications. Designed for low side lobe and front-to-back performance, the antenna is an excellent choice for high density Wi-Fi applications where adjacent antenna interference is of concern. Equipped with two vertically polarized ports and two horizontally polarized ports, the antenna takes advantage of both polarization and spatial separation to mitigate multipath issues.

Enclosed in a compact/low profile polycarbonate radome and equipped with an articulating arm that can be affixed to a mast or anchored directly to a vertical surface, the antenna can be oriented to take full advantage of the antenna's directionality. Uniform and symmetrical radiation patterns provide high-level signal density into defined coverage zones. This antenna greatly enhances the performance of 802.11 systems where physical obstructions are anticipated. The dual band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 5.15-5.9 GHz bands.

#### FEATURES AND BENEFITS

- 802.11n MIMO
- Wide band 2.4-2.5 GHz and 5.15-5.9 GHz performance
- Vertically and horizontally polarized radiating elements in a single solution
- Equitable for both indoor and outdoor solutions
- Low profile
- Multipath mitigation
- Lower adjacent antenna interference
- Frequency diplexed dual polarized radiators

#### APPLICATIONS

- High density Wi-Fi
- Stadiums, arenas, convention centers
- Transport terminals
- Campuses
- Outdoor networks

#### ELECTRICAL SPECIFICATIONS

Model Number	PDM245115H-CS2		
Cisco Part Number	AIR-ANT2513P4M-NS		
Cisco Manufacturing Number	07-100553-01		
Number of Ports	4		
Operating Frequency (MHz)	2400-2500	5150-5700	5700-5900
VSWR - Max	<1.6:1	<2.0:1	<1.5:1
Gain (dBi)	13	13	
Nominal Impedance (Ohms)	50		
Vertical Plane 3 dB Beamwidth	35°		
Horizontal Plane 3 dB Beamwidth	35°		
Sidelobes (dB)	< 8	< 12	
Front-to-Back Ratio (dB)	> 15	> 15	

## ELECTRICAL SPECIFICATIONS

Vertical Plane 3 dB Beamwidth	33°	27°
Horizontal Plane 3 dB Beamwidth	31°	31°
Sidelobes - Azimuth (dB)	-20	-20
Sidelobes - Elevation (dB)	-10	-15
Front-to-Back Ratio (dB)	35	-

## MECHANICAL SPECIFICATIONS

Dimensions - mm (inches)	507.0 x 368 x 21.1 (20.0 x 14.5 x 0.8)
Weight - kg (lbs.) (no brackets)	2.3 (5.1)
Radome Material	Polycarbonate, UL94-V0, medium gray

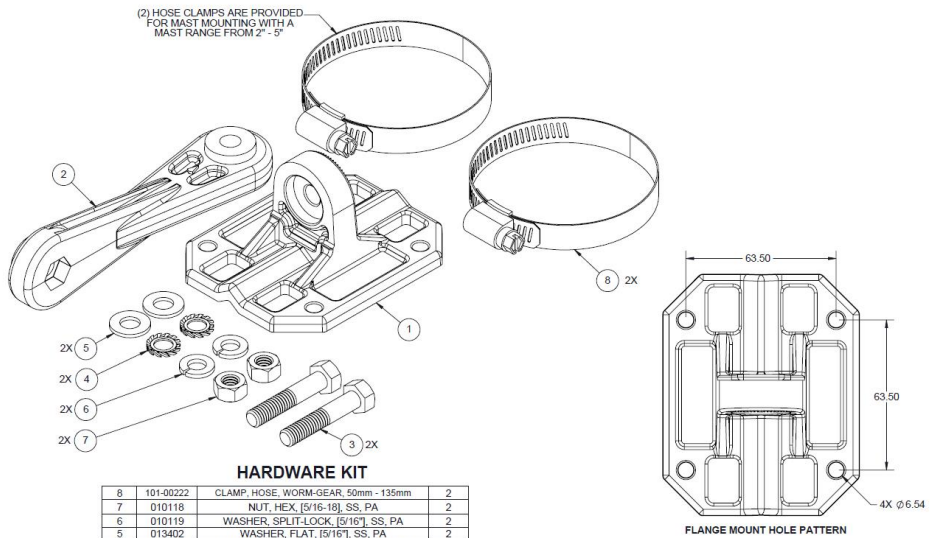
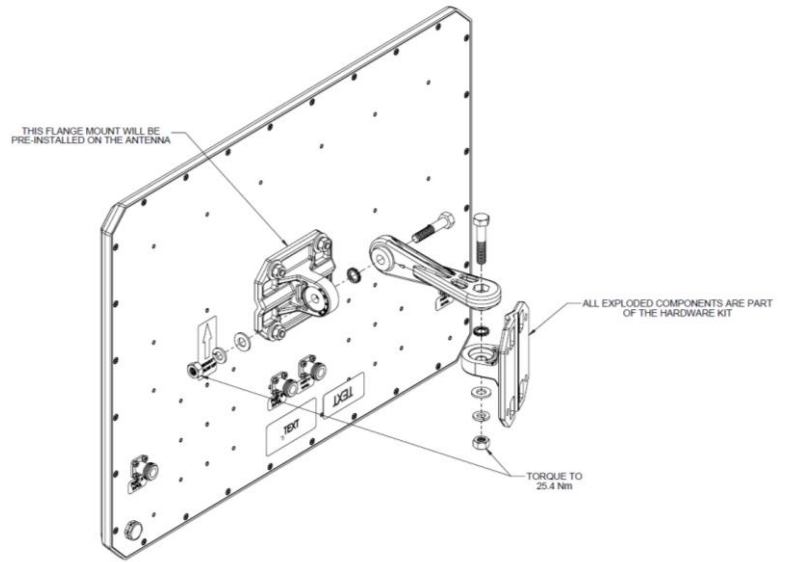
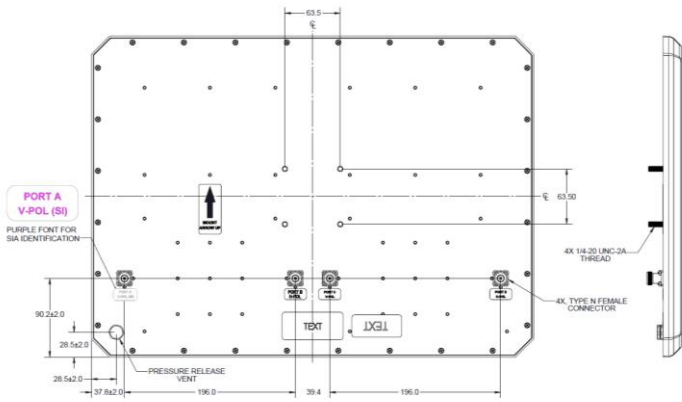
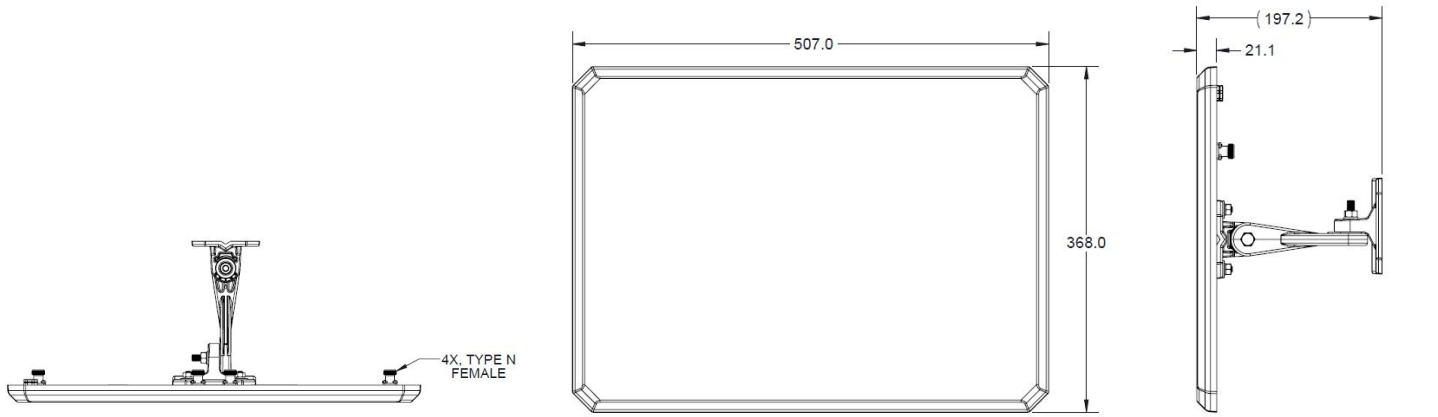
## ENVIRONMENTAL SPECIFICATIONS

Operating Environment (Indoor or Outdoor)	Indoor and Outdoor
Operating Temperature - °C (°F)	-40 to +70°C (-40 to +158°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection Rating	IP67
Flammability Rating	UL 94V0 Materials
Material Substance Compliance	RoHS

## CONFIGURATION

PART NUMBER	CONNECTOR
PDM245115H-CS2	Type N Female (x4)

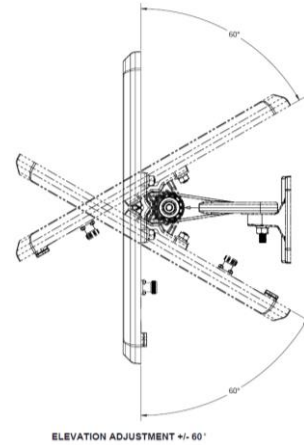
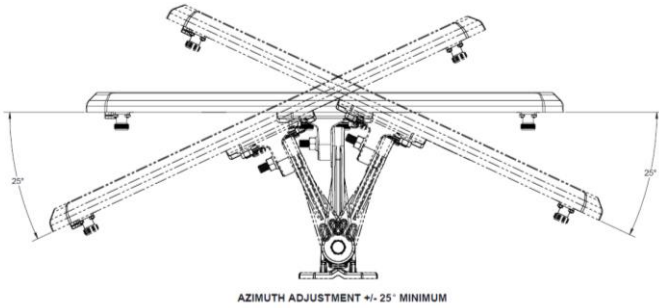
# MECHANICAL DRAWING



**HARDWARE KIT**

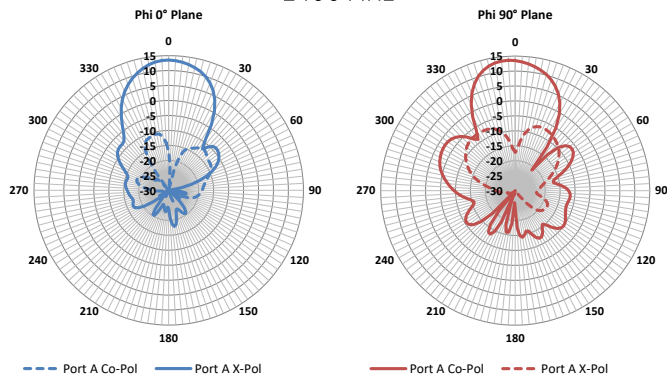
8	101-00222	CLAMP, HOSE, WORM-GEAR, 50mm - 135mm	2
7	010118	NUT, HEX, [5/16-18], SS, PA	2
6	010119	WASHER, SPLIT-LOCK, [5/16], SS, PA	2
5	013402	WASHER, FLAT, [5/16], SS, PA	2
4	017845	WASHER, EXT OL SERRATED, [M8], SS, PA	2
3	017844	SCREW, HHC, [5/16-18 X 1-5/8], SS, PA	2
2	112-00023	ARM, HDMNT	1
1	112-00022	FLANGE, HDMNT	1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY

# MECHANICAL DRAWING

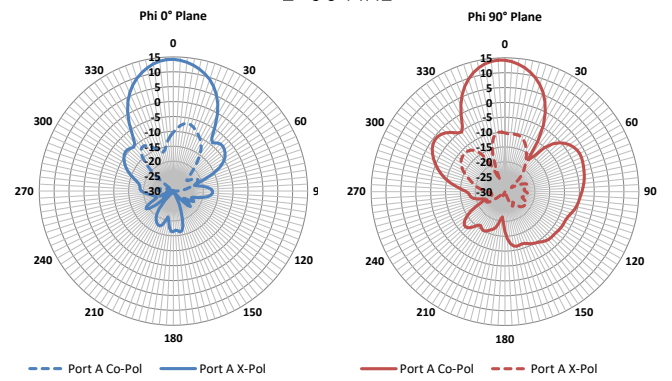


# RADIATION PATTERNS - PORT A

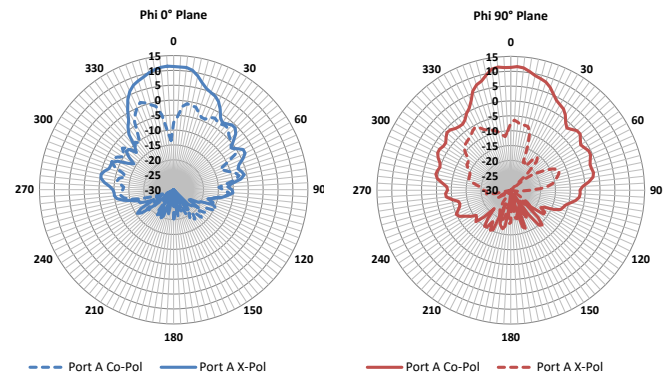
2400 MHz



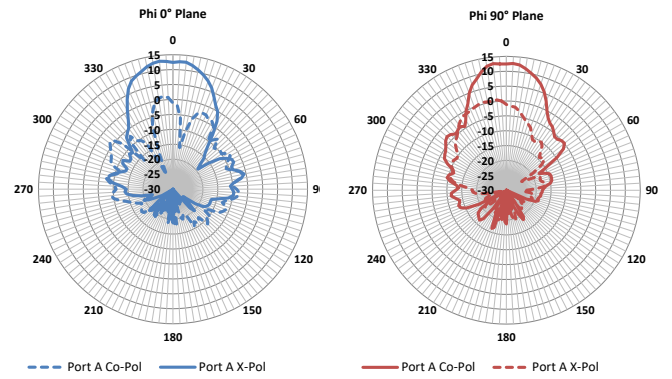
2500 MHz



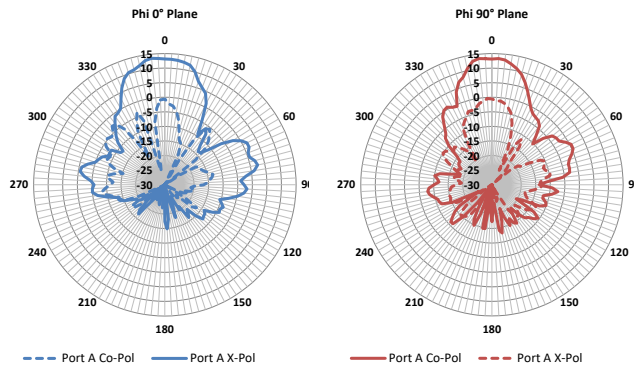
5150 MHz



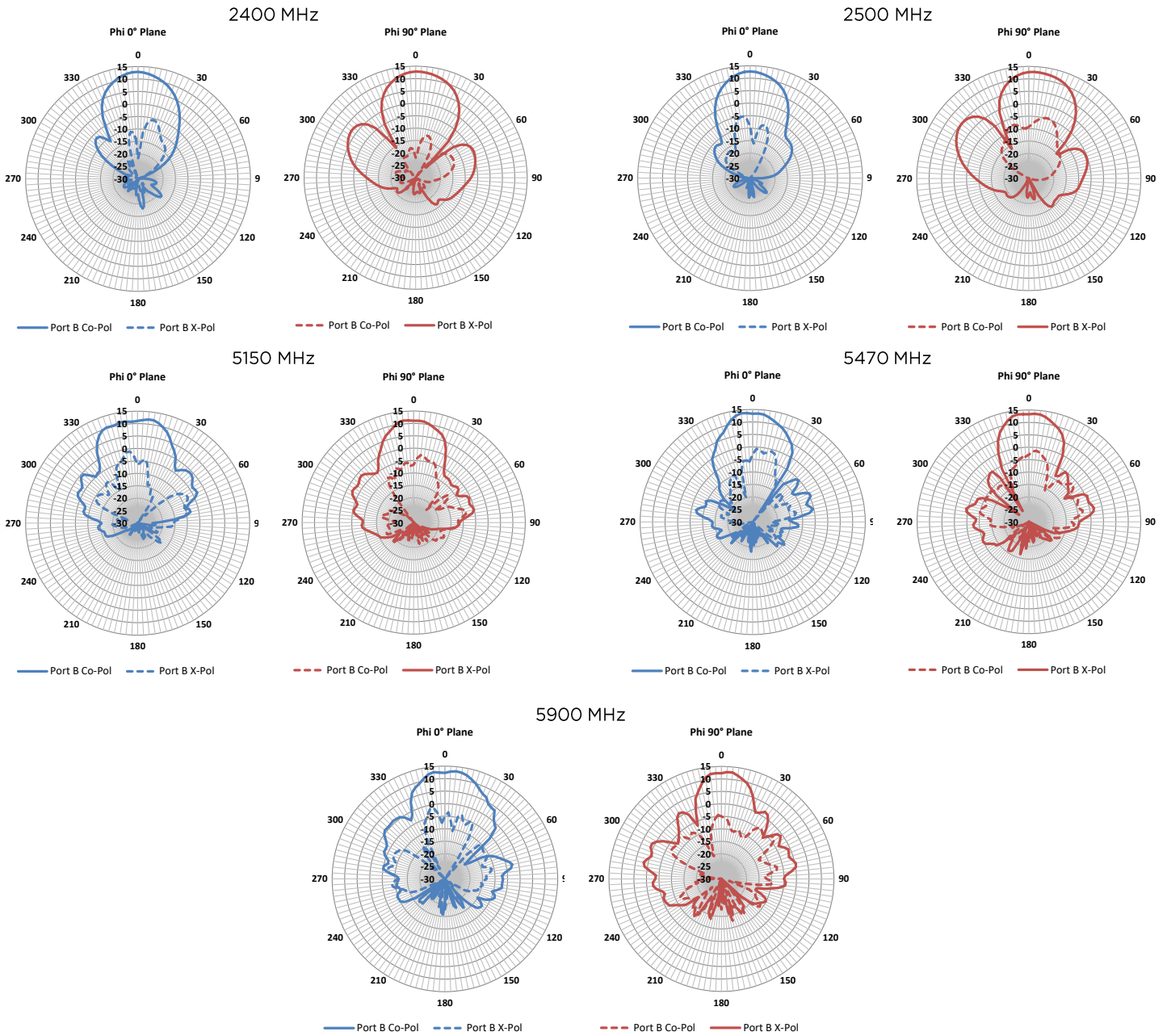
5470 MHz



5900 MHz

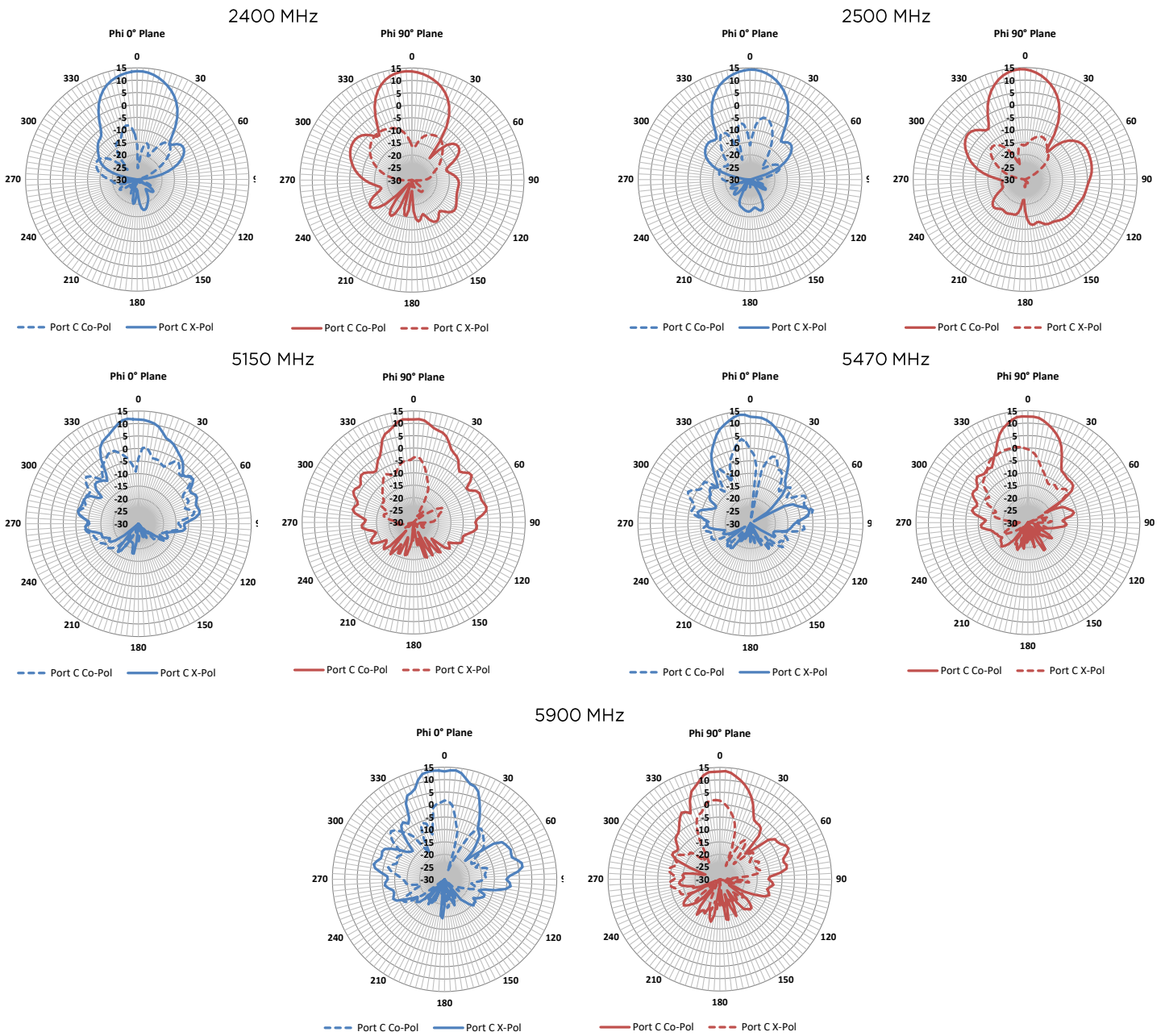


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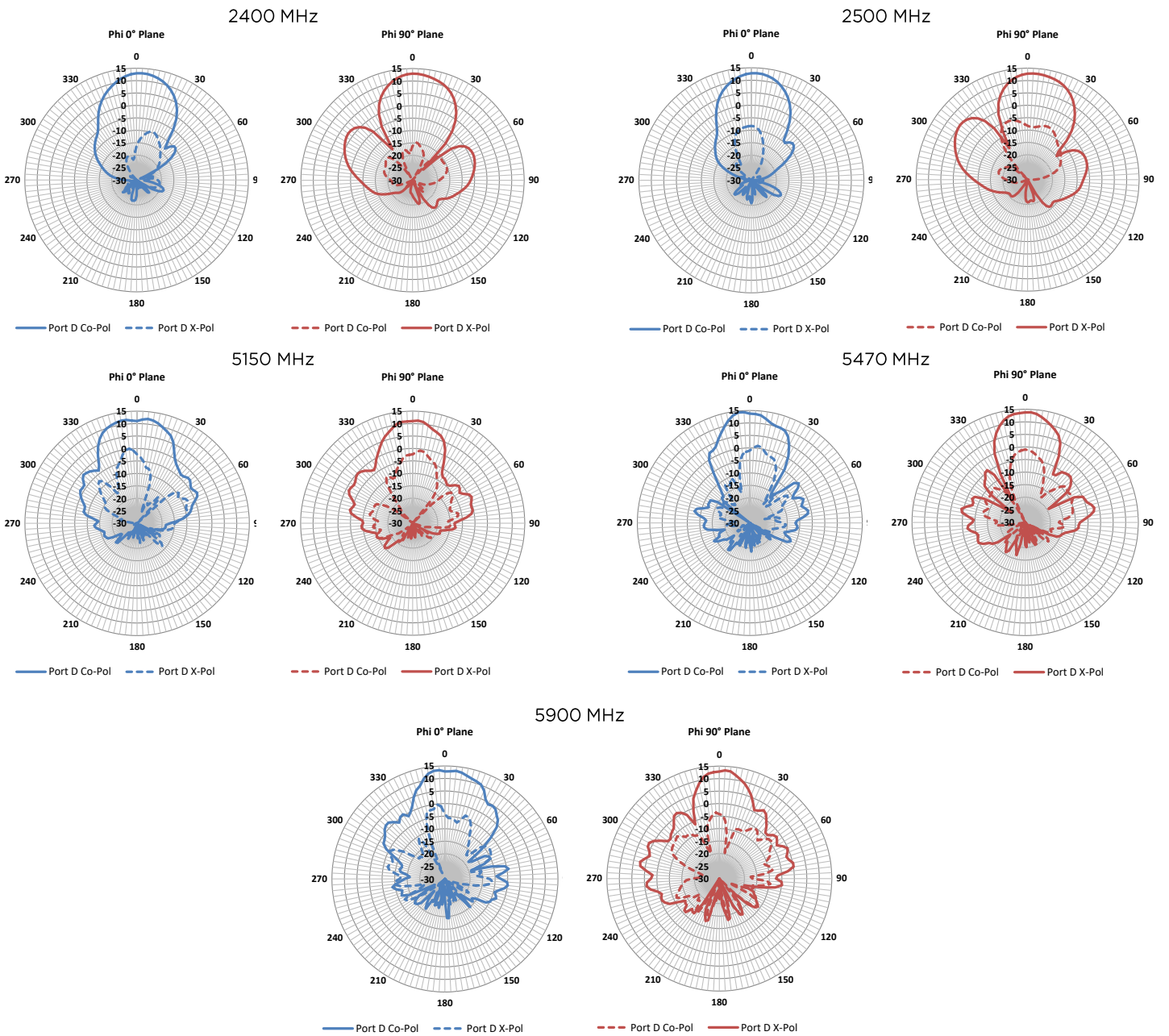




# RADIATION PATTERNS - PORT C



# RADIATION PATTERNS - PORT D



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