

Product Specification
Dell Gateway Wall mounted antennas –
2 port LTE
Laird part number : PVD69275-DE1

Prepared by CS Por
29Oct 2015

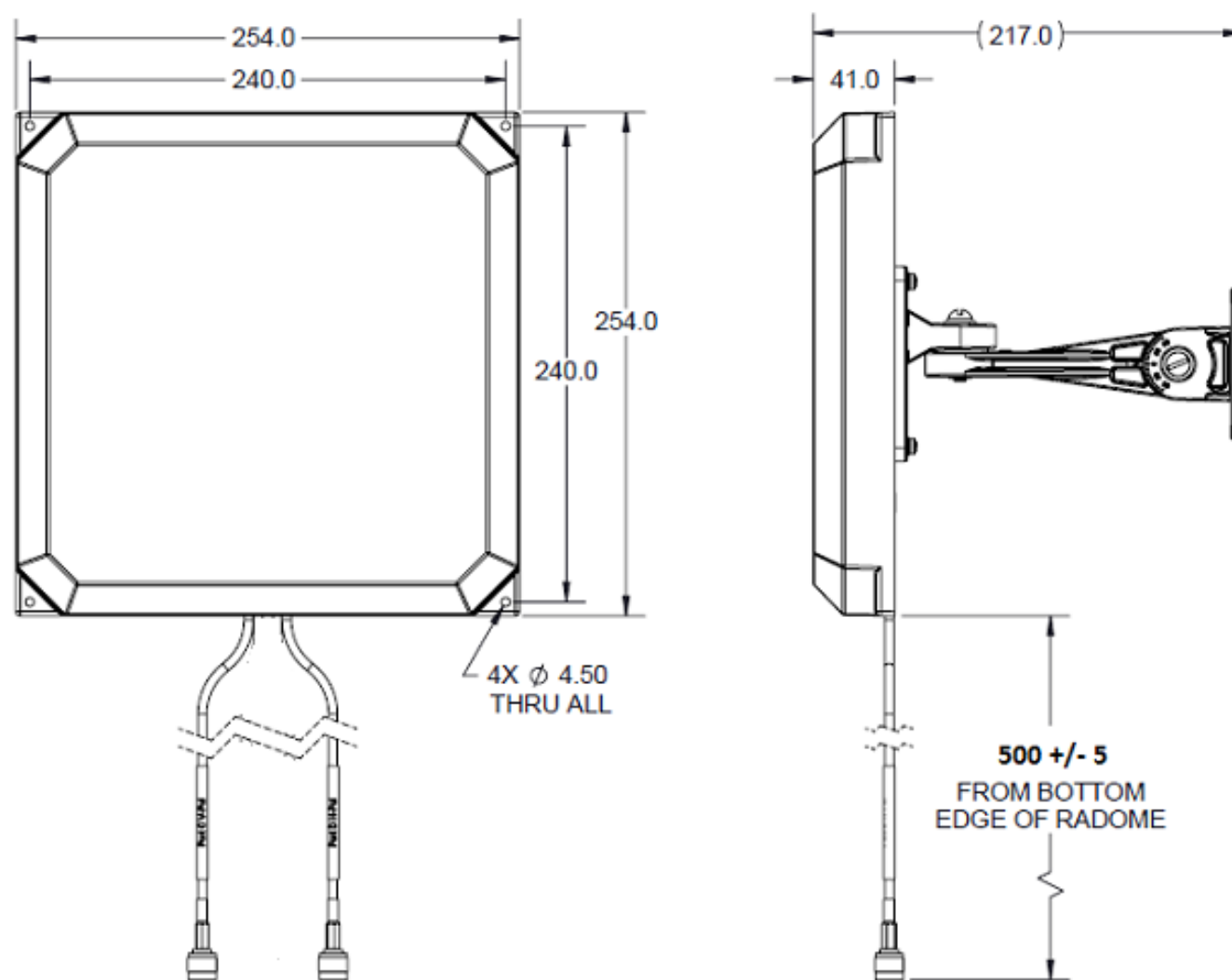
RF Specifications

Antenna Specification									
Number of Ports	2								
Frequency (MHz)	698-803	791-862	824-894	880-960	1710-1880	1850-1990	1710-2155	1920-2170	2500-2690
VSWR	2:1								
Isolation (dB)	> 15								
Peak gain on Horizon plane	< 5.0dBi	< 5.0dBi	< 5.0dBi	< 3.7dBi	< 5.0dBi	< 3.3dBi	<3.3dBi	< 5.0dBi	< 5.0dBi
Average gain on sphere	> -3 dBi								
Polarization	Linear								
Efficiency	> 50%								
Antenna type	PCB Dipole								

Mechanical Specifications

Antenna Specification	
Dimensions	254mm X 254mm X 41mm
IPX class	IP65
Mounting	Wall mounted
Connector type	SMA male
Antenna color	White
Cable type	Plenum rated low loss RG58
Cable color	White
Weight	TBA
Mounting bracket	Swivel type (plastic)
Mounting bracket length	~ 176 mm
Pig tail length	~ 500 mm

Preliminary mechanical outline

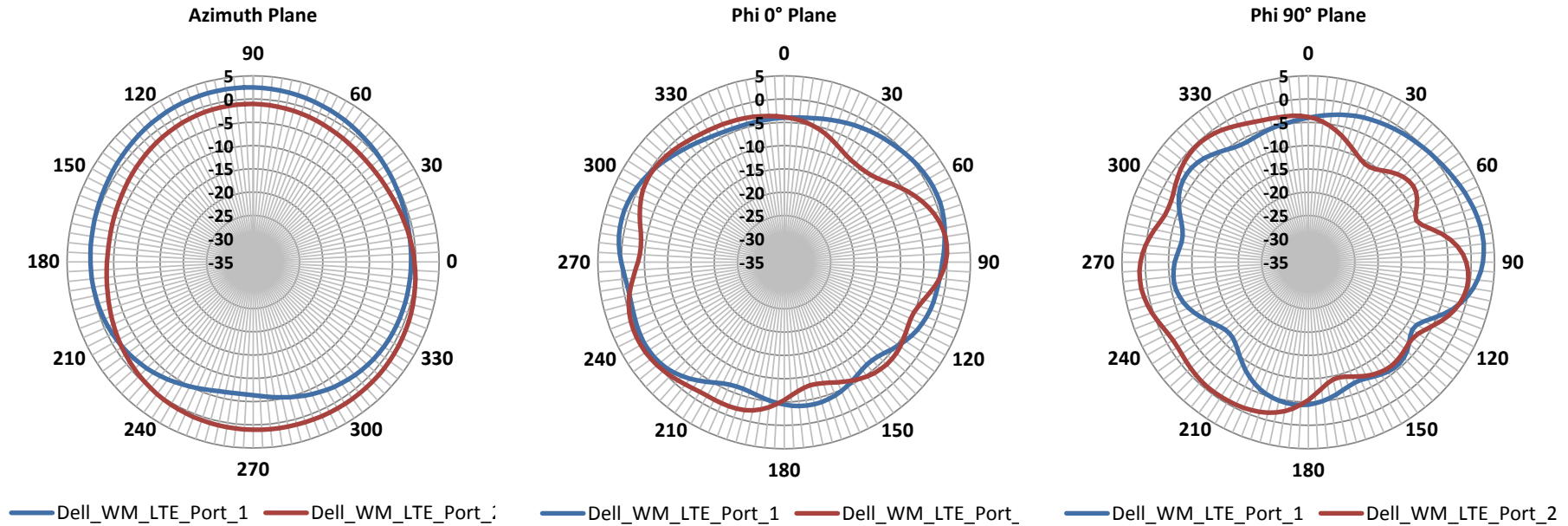


All dimensions in mm

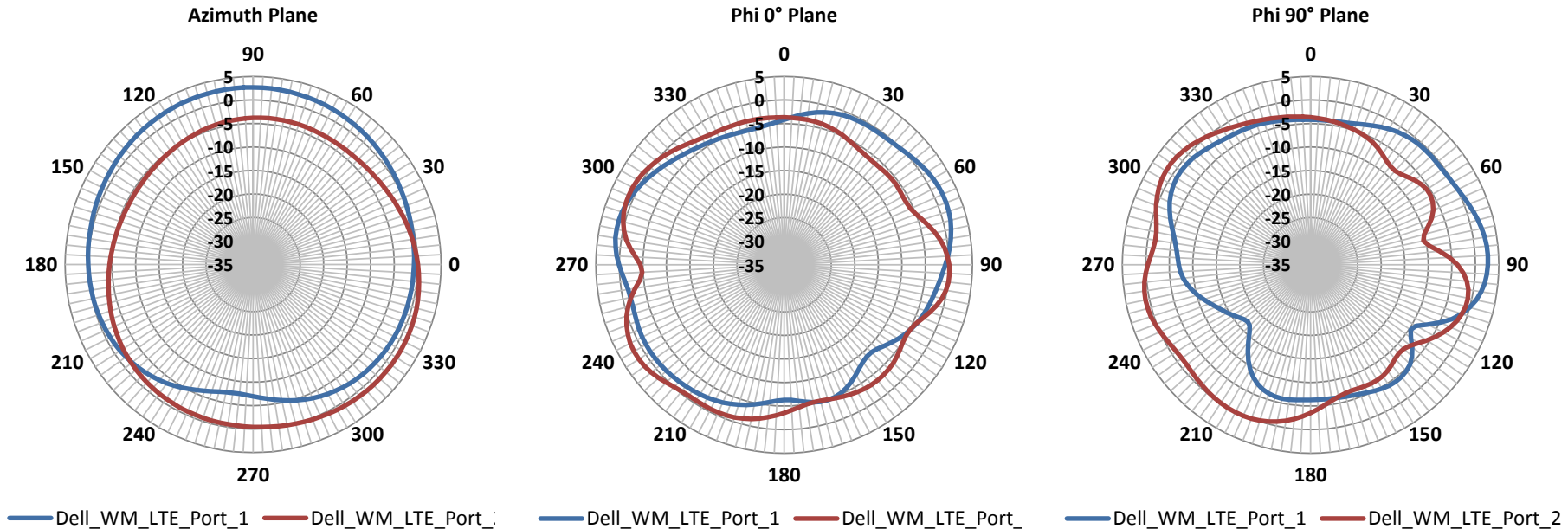
Coaxial cable specification

SPECIFICATIONS	
Impedance	50 ± 2.0 OHMS
Structural Return Loss	-16 dB or better from 100-2500 MHz unterminated sample, direct bridge method.
Nominal RTL reference	-16 dB or better to 6.0 GHz
Dielectric	Foam FEP
Dielectric, Outer Diameter	0.110" ±0.003"
Velocity of Propagation	80%
Center Conductor	Solid Copper, 0.037" ±0.001"
Shield #1	Foil, Aluminum/poly tape, adhered to dielectric
Diameter Over Foil	0.119" ±0.003"
Shield #2	Braid, 90% 36-AWG Tin/Copper
Outer Jacket	Plenum PVDF, Off-white, lead free, UV stable
Outer Diameter	0.178" ±0.006"
PLENUM Rating	CMP(ETL)C(ETL)
Attenuation dB/100'	8.0 dB @ 450 MHz 12.5 dB @ 900 MHz 19.6 dB @ 1.8 GHz 23.6 dB @ 2.5 GHz
Nominal reference values, (not tested in production)	23.0 dB @ 3.0 GHz 27.5 dB @ 4.0 GHz 31.0 dB @ 5.0 GHz 35.0 dB @ 6.0 GHz
Installation Temp	-20° C to +65° C
Operating Temp	-30° C to +65° C
CC Pullout	6 lbf min., 16 lbf max.
Jacket Pullout	4.5 lbf min. on 3" section @ 0.5" per minute
Min Bend Radius	0.5' static bend
Leakage	-90 dB

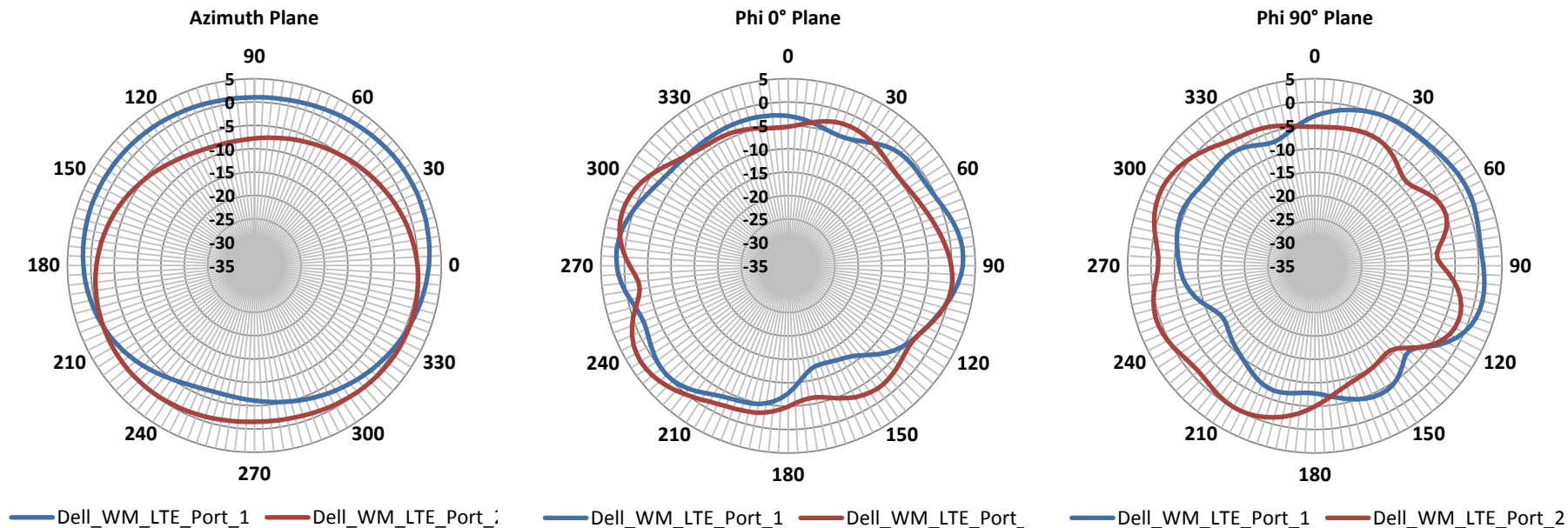
Radiation Pattern at 698 MHz



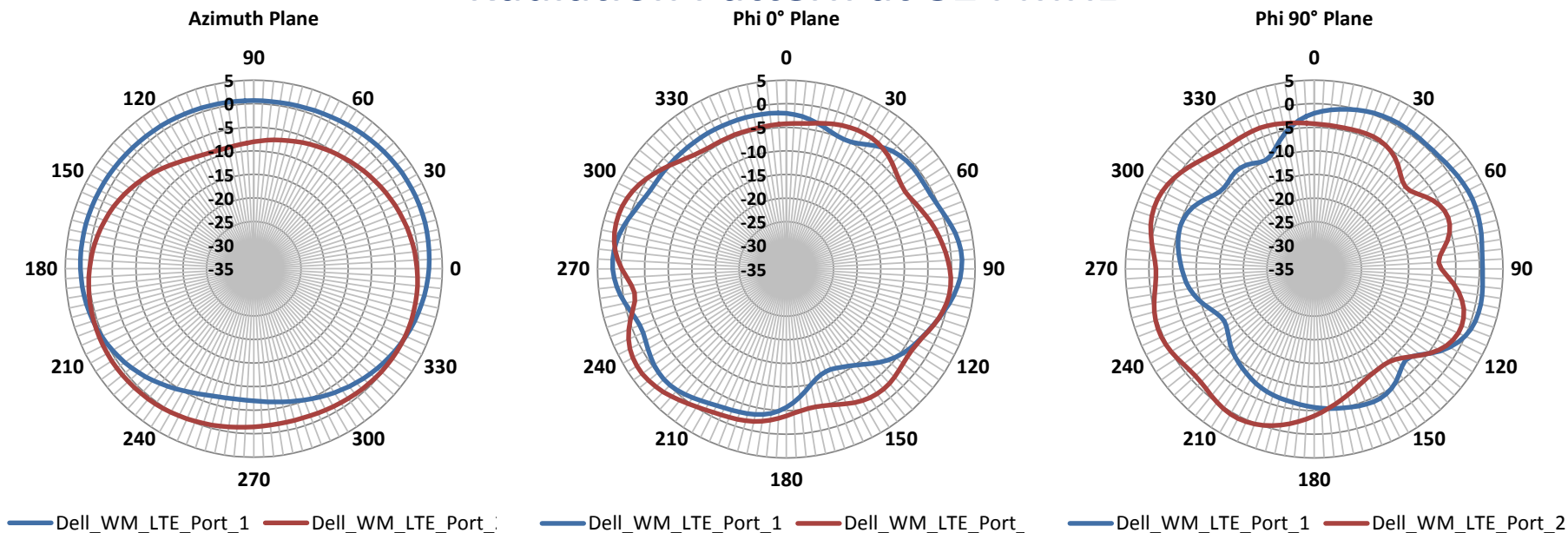
Radiation Pattern at 746 MHz



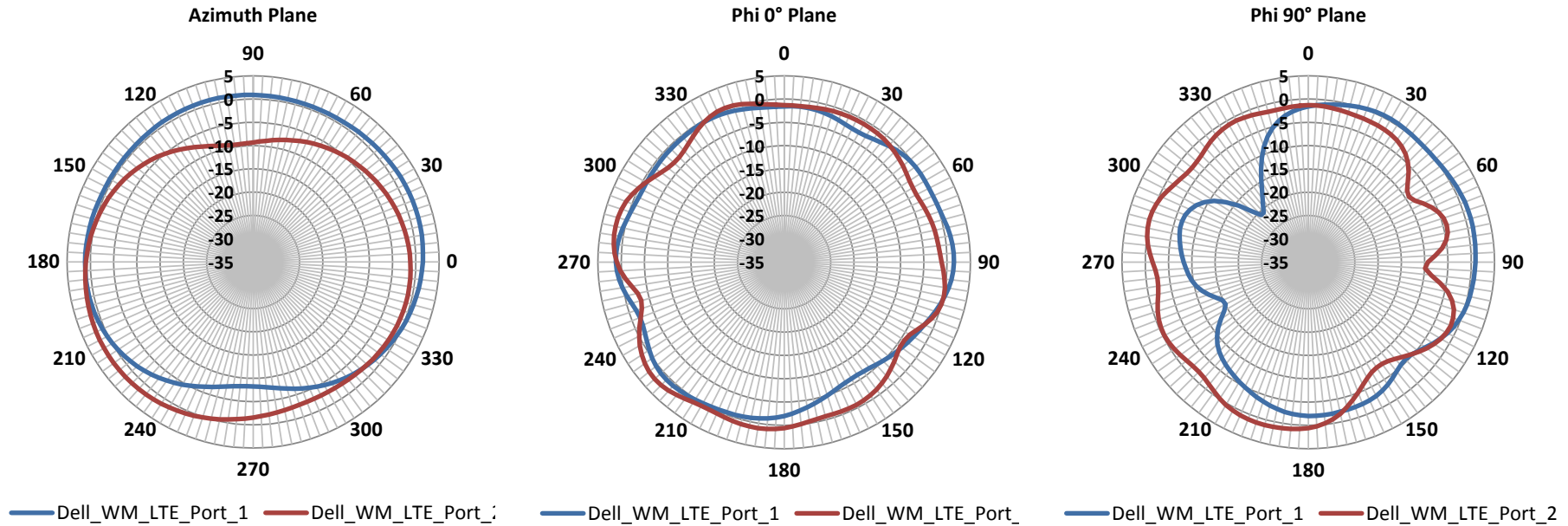
Radiation Pattern at 806 MHz



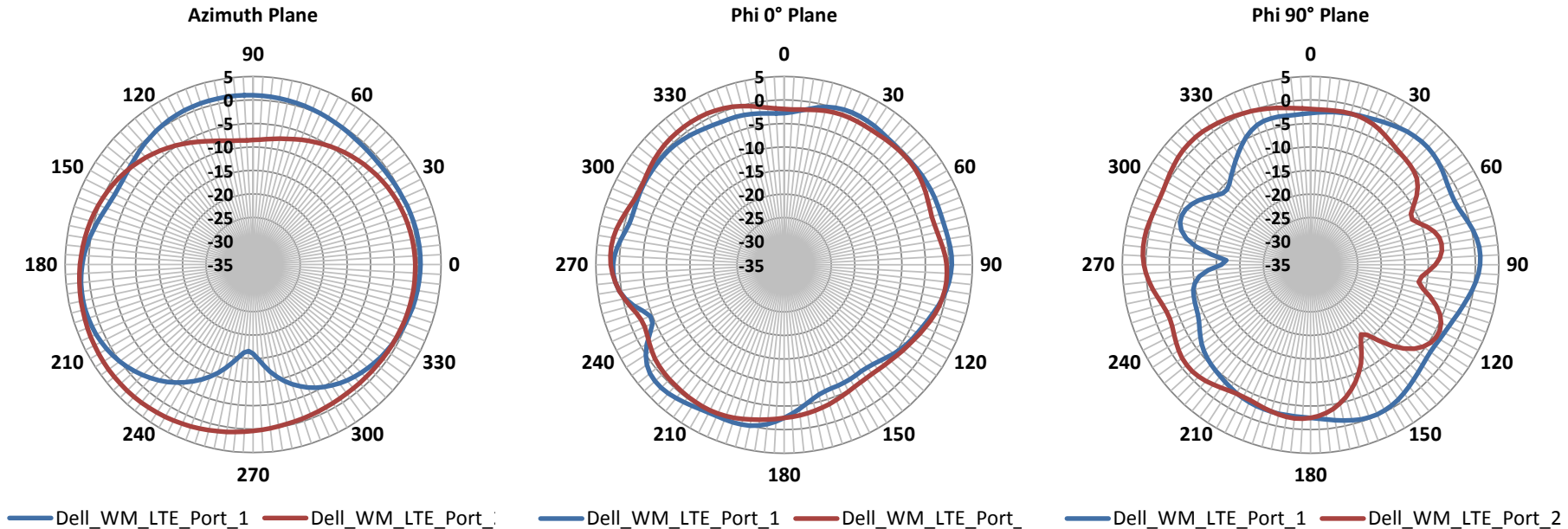
Radiation Pattern at 824 MHz



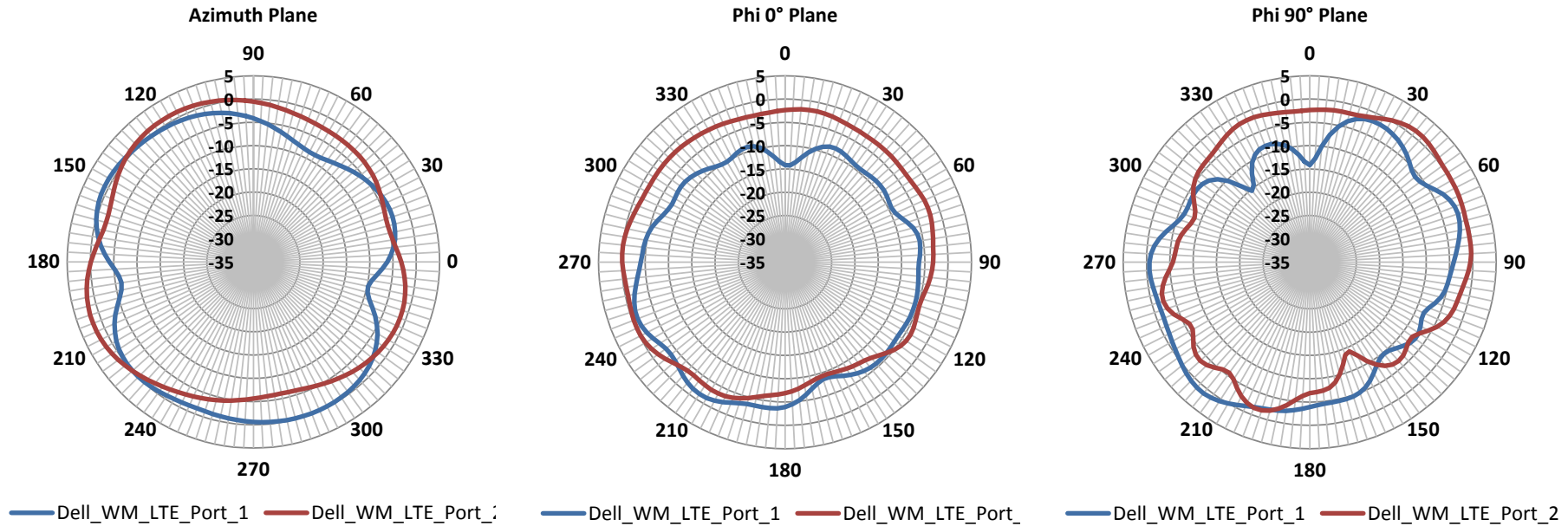
Radiation Pattern at 880 MHz



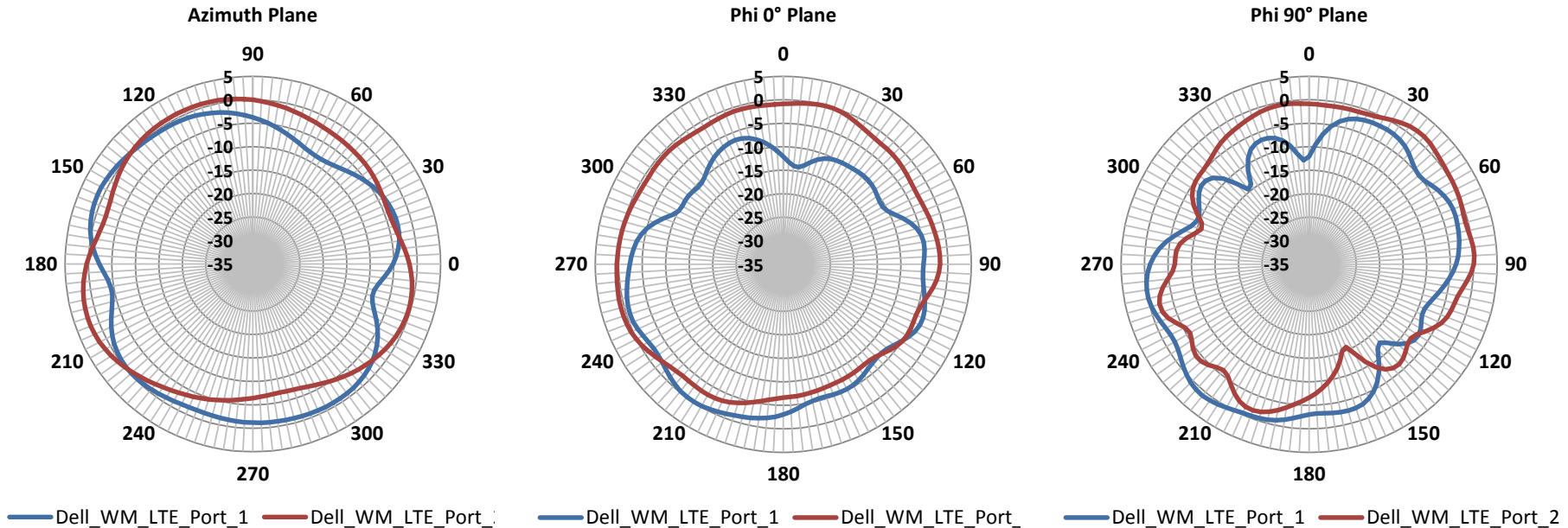
Radiation Pattern at 960 MHz



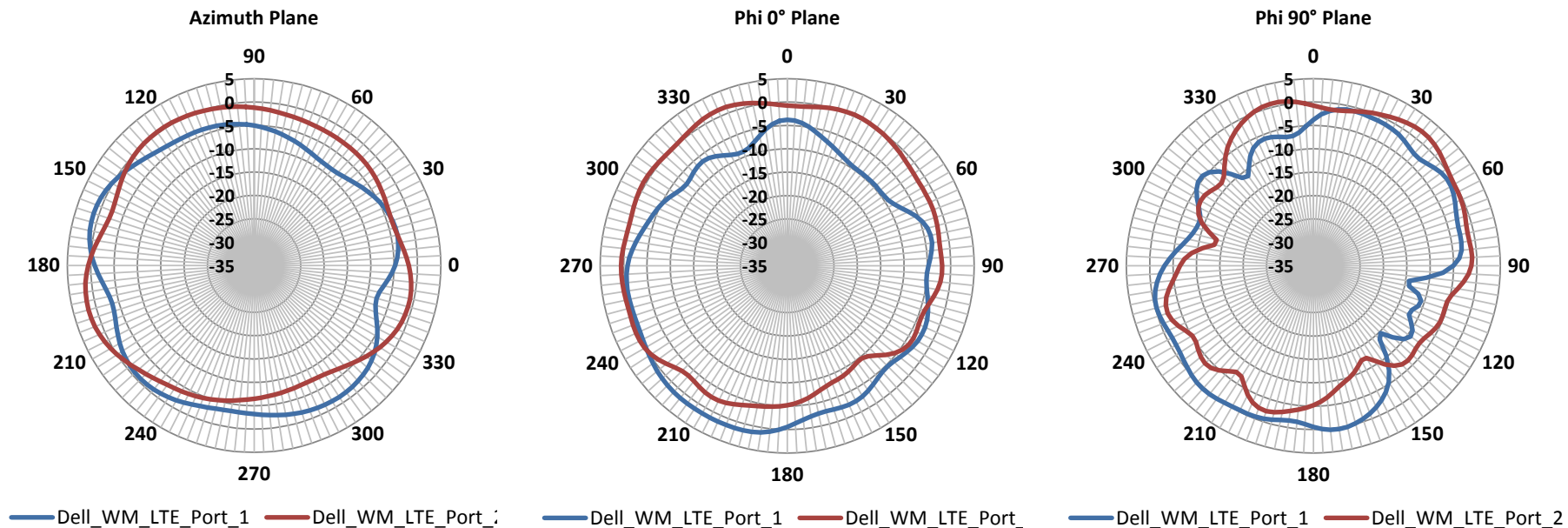
Radiation Pattern at 1710 MHz



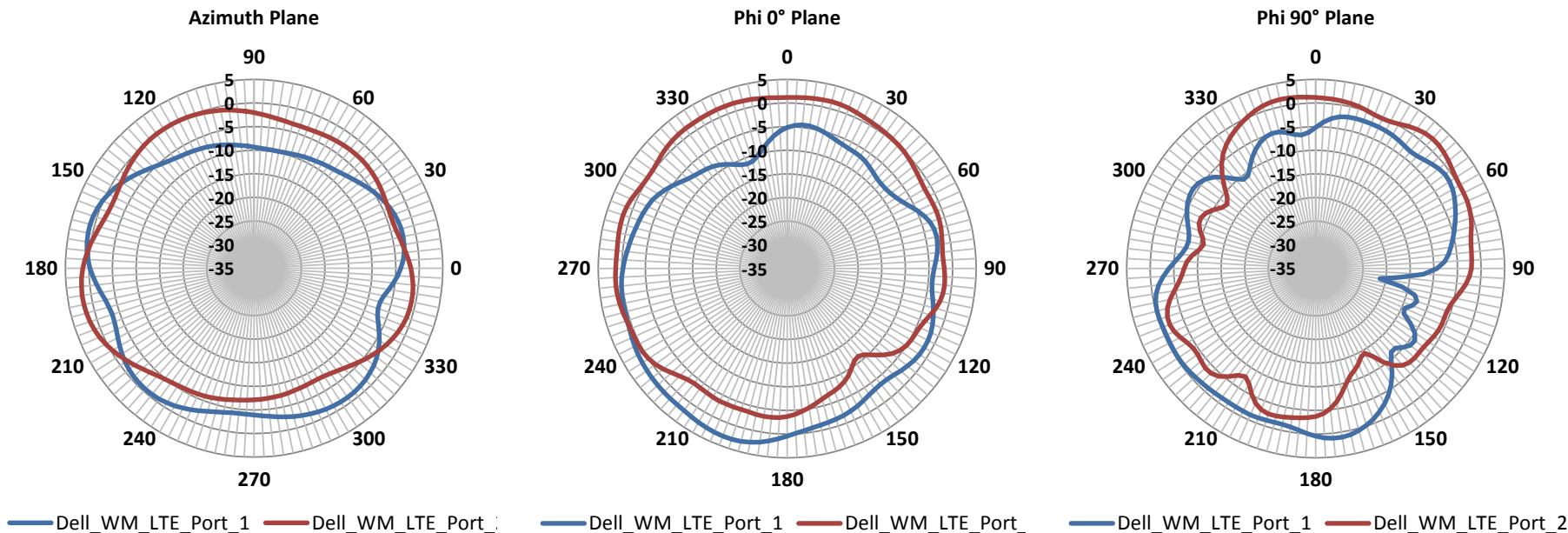
Radiation Pattern at 1755 MHz



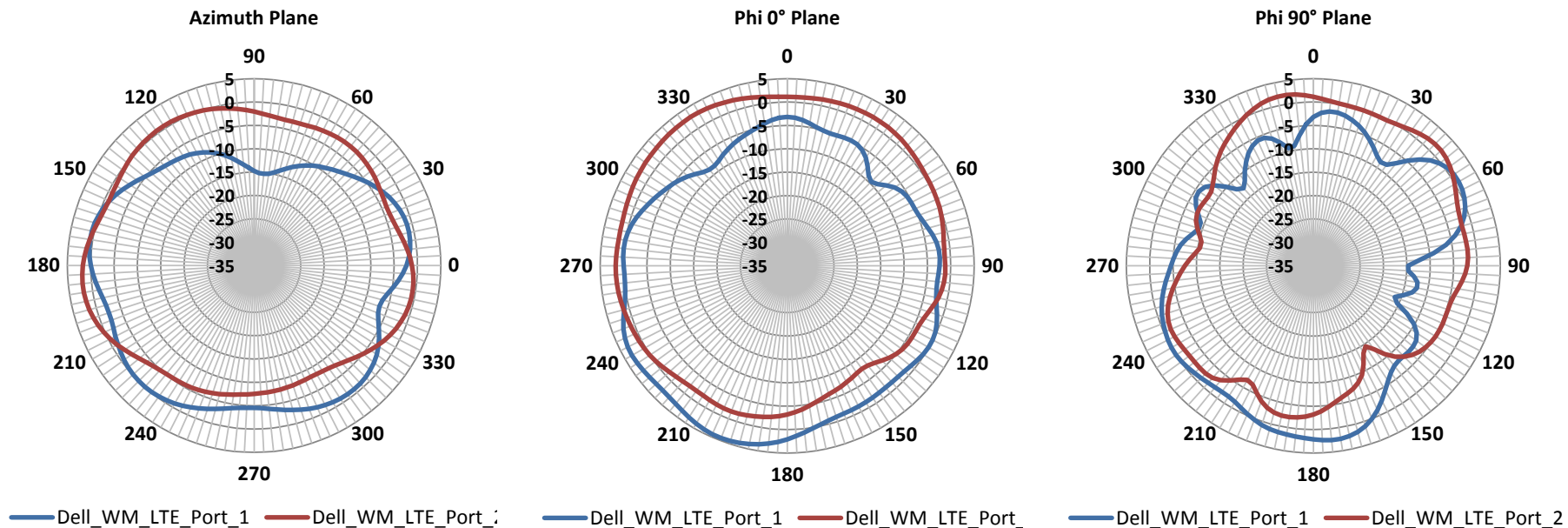
Radiation Pattern at 1850 MHz



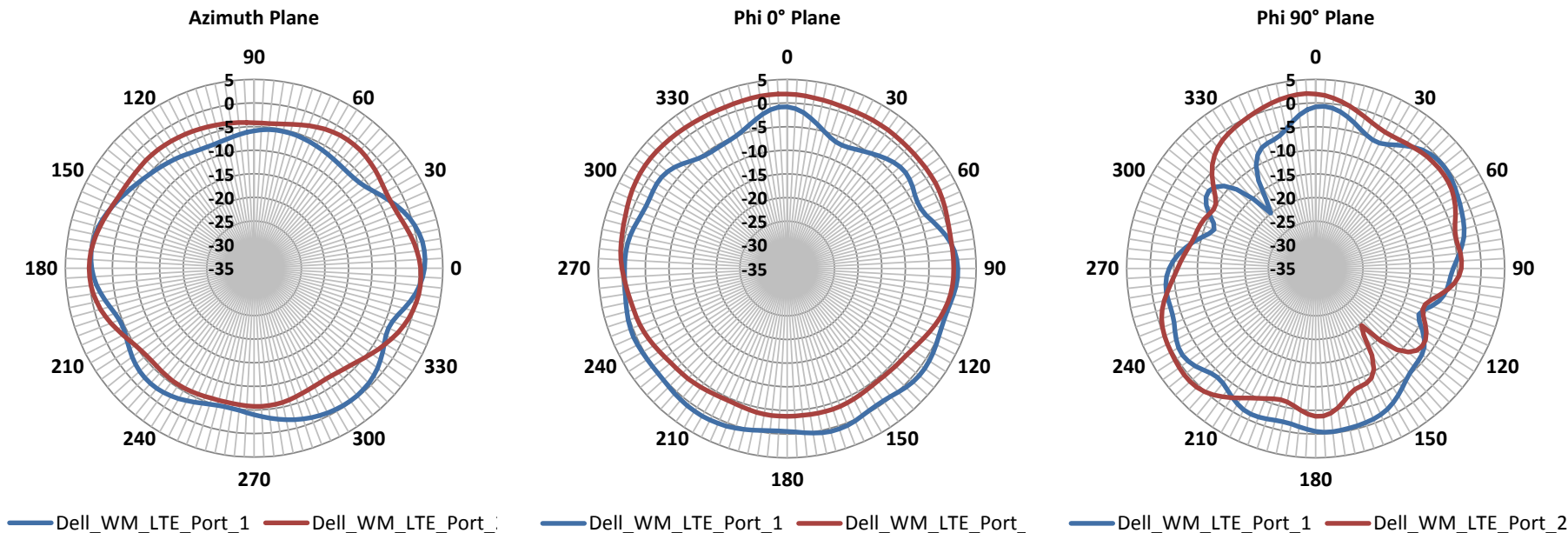
Radiation Pattern at 1910 MHz



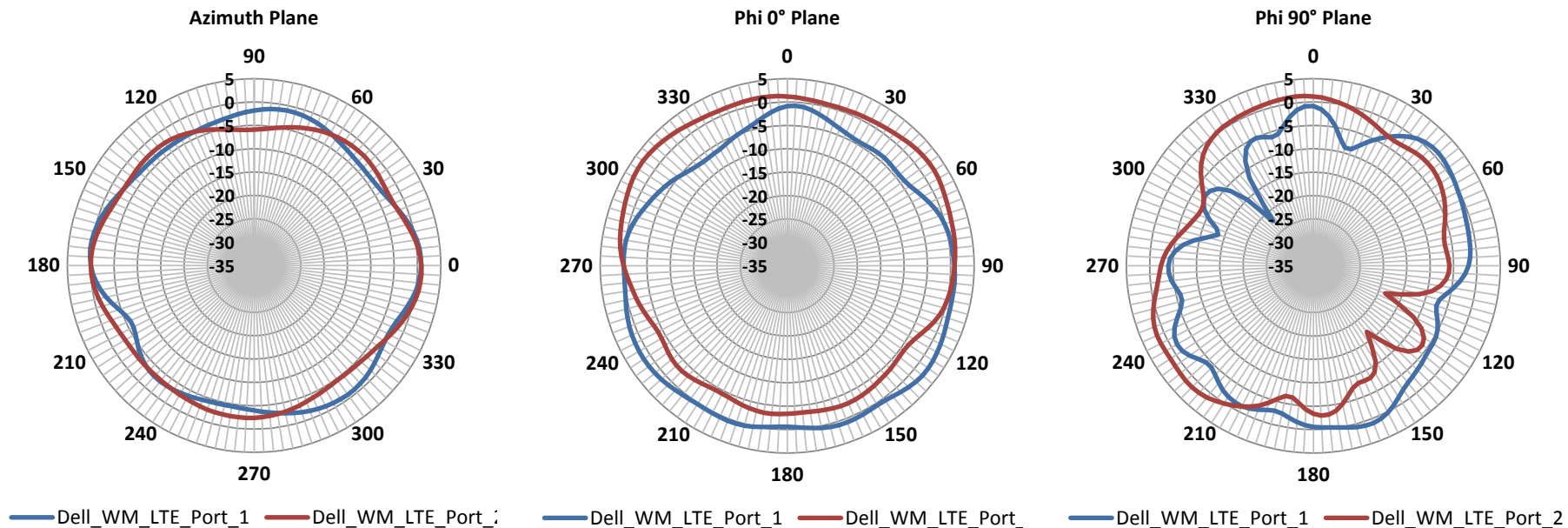
Radiation Pattern at 1990 MHz



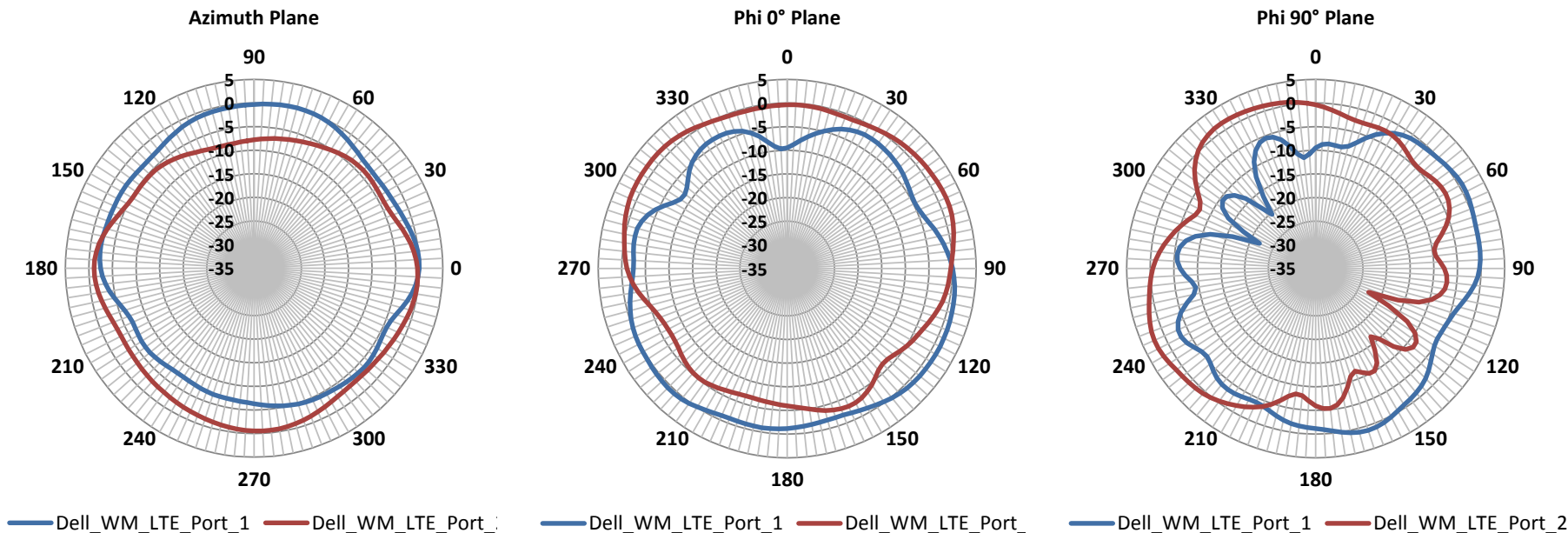
Radiation Pattern at 2170 MHz



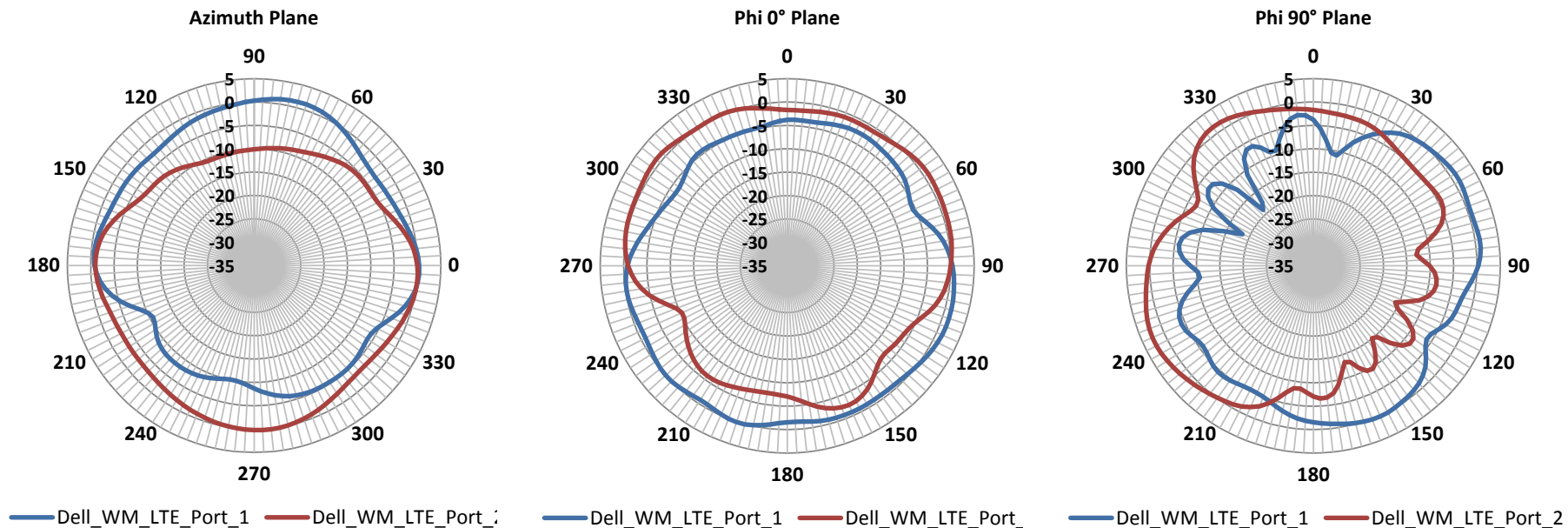
Radiation Pattern at 2310 MHz



Radiation Pattern at 2506.5 MHz



Radiation Pattern at 2600 MHz



Radiation Pattern at 2700 MHz

