

3D ANTENNA PATTERN MEASUREMENTS

EUT:	WPG
Serial Number:	None
Customer:	Emerson Process Management
Attendees:	John Kielb, Tim OConnell
Customer Project:	None
Tested By:	Jared Ison
Test Run Description:	Ch 2410 MHz SN 601

Work Order:	EMPM0005
Date:	9/16/2015
Temperature:	23.1 °C
Relative Humidity:	55.1% RH
Bar. Pressure:	978.7 mbar
Job Site:	MN10

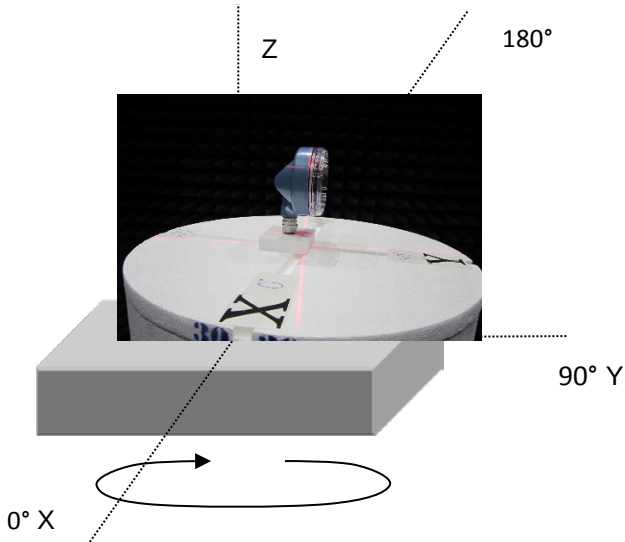
COMMENTS

None

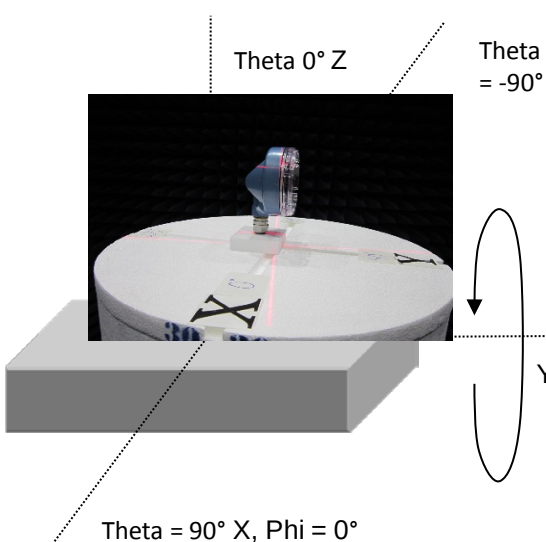
3D PATTERN DATA

Frequency (MHz)	2410
Ant. Port Input Pwr. (dBm)	9.75
Tot. Rad. Pwr. (dBm)	7.26
Peak EIRP (dBm)	11.49
Directivity (dBi)	4.23
Efficiency (dB)	-2.49
Efficiency (%)	56.33
Gain (dBi)	1.74
Average Gain (dB)	-2.49

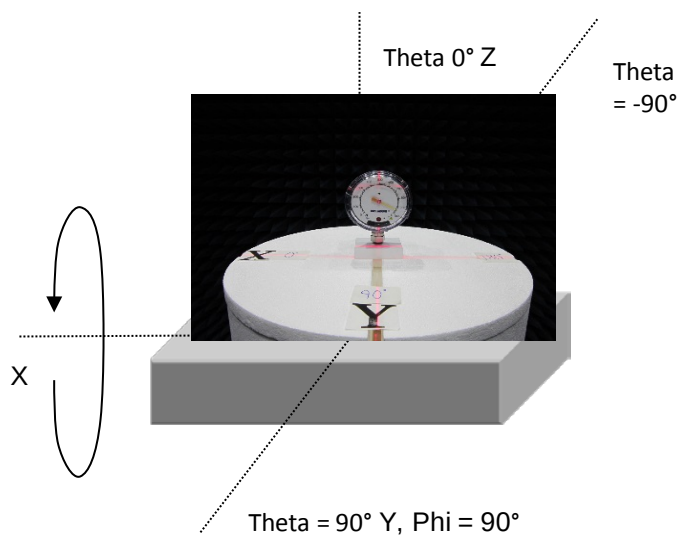
Azimuth Cut (Theta Axis = 90°)



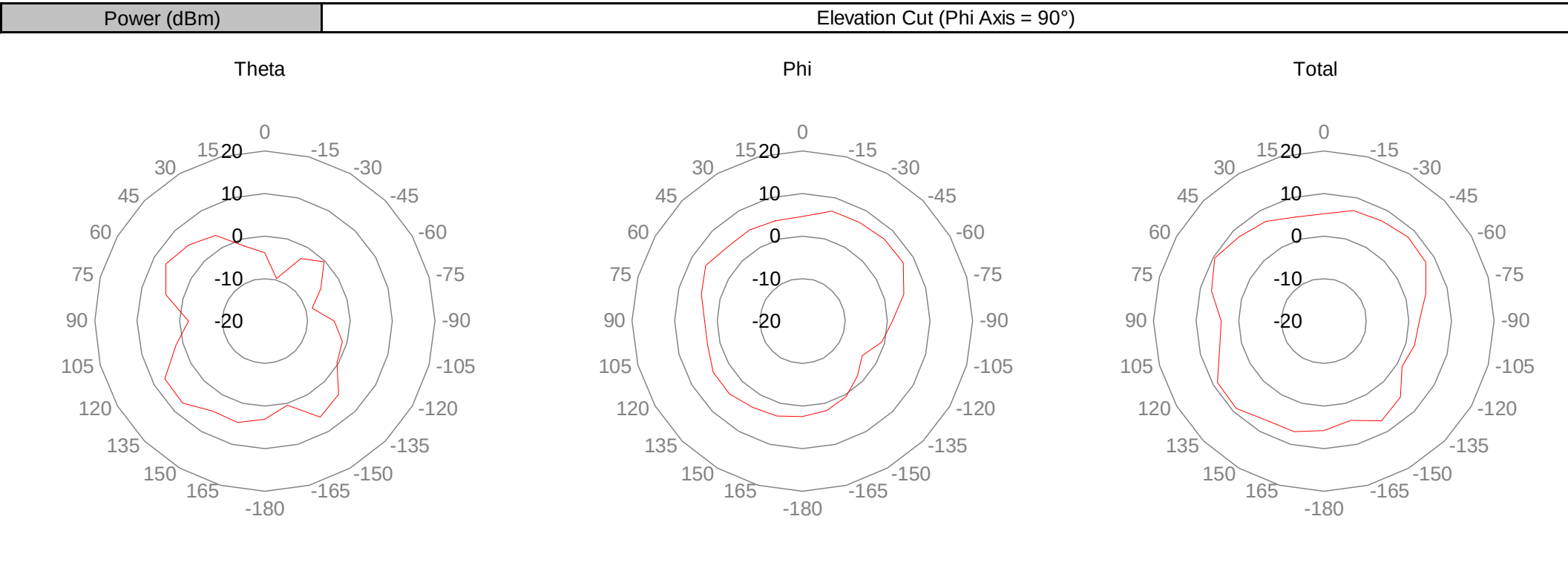
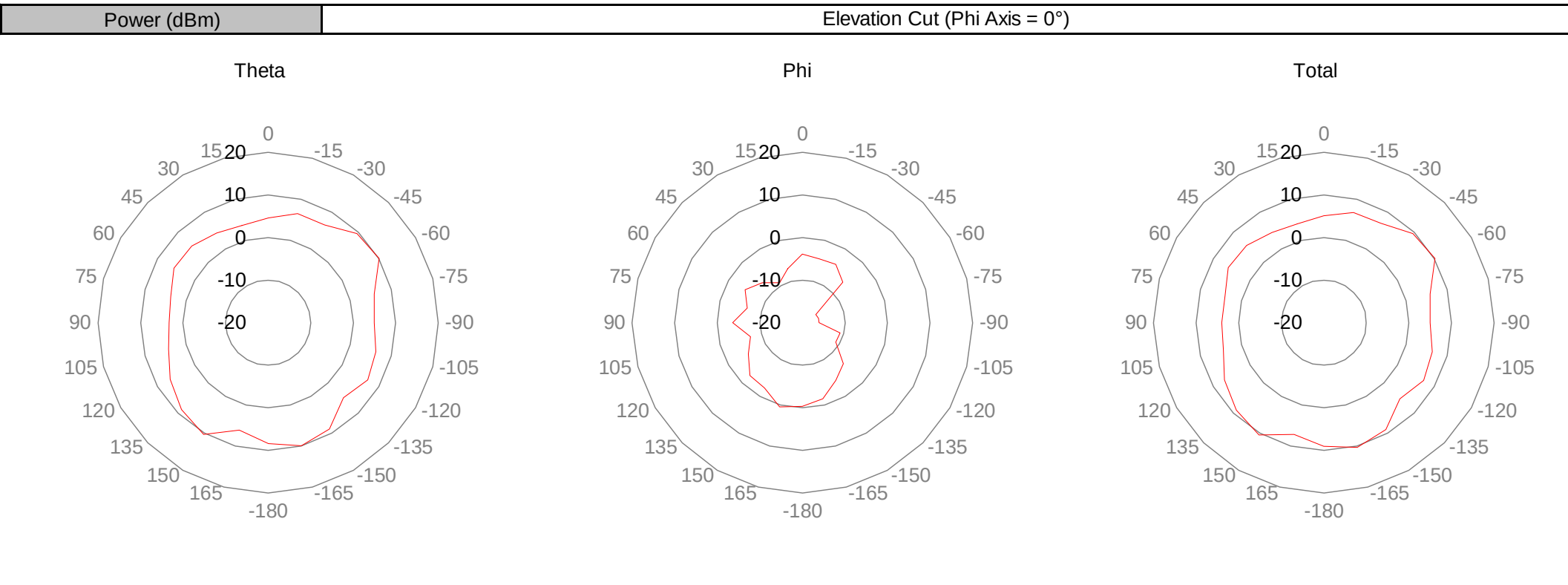
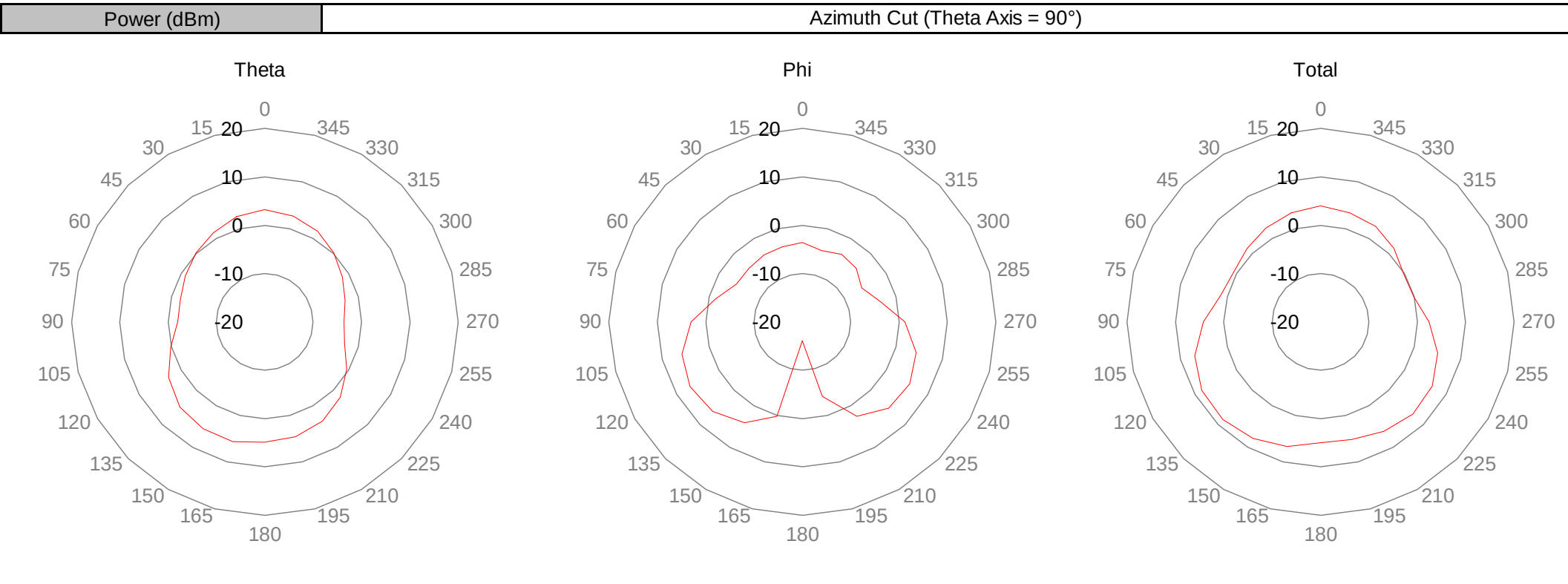
Elevation Cut (Phi Axis = 0°)



Elevation Cut (Phi Axis = 90°)



POLAR PLOTS



3D ANTENNA PATTERN MEASUREMENTS

EUT:	601
Serial Number:	None
Customer:	Emerson Process Management
Attendees:	John Kielb, Tim OConnell
Customer Project:	None
Tested By:	Jared Ison
Test Run Description:	Ch 2440 MHz SN 601

Work Order:	EMPM0005
Date:	9/16/2015
Temperature:	23.1 °C
Relative Humidity:	55.1% RH
Bar. Pressure:	978.7 mbar
Job Site:	MN10

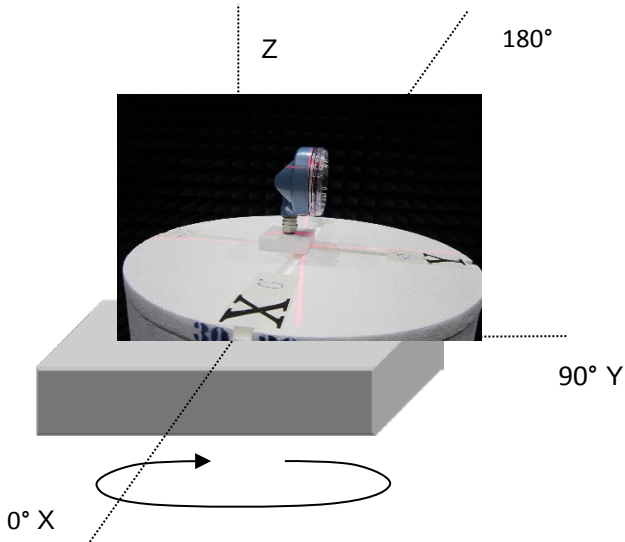
COMMENTS

None

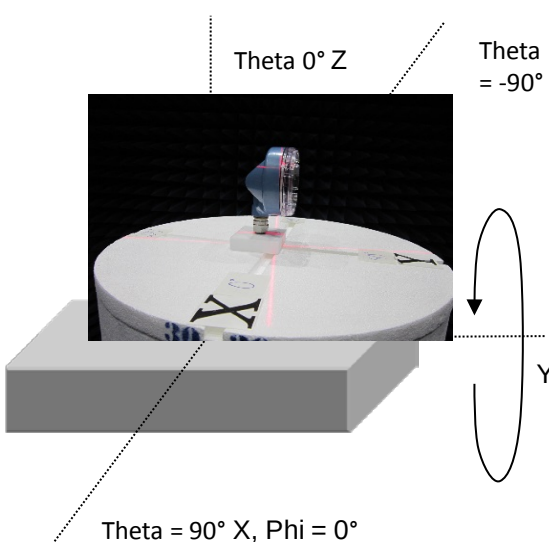
3D PATTERN DATA

Frequency (MHz)	2440
Ant. Port Input Pwr. (dBm)	8.7
Tot. Rad. Pwr. (dBm)	7.59
Peak EIRP (dBm)	11.5
Directivity (dBi)	3.91
Efficiency (dB)	-1.11
Efficiency (%)	77.39
Gain (dBi)	2.8
Average Gain (dB)	-1.11

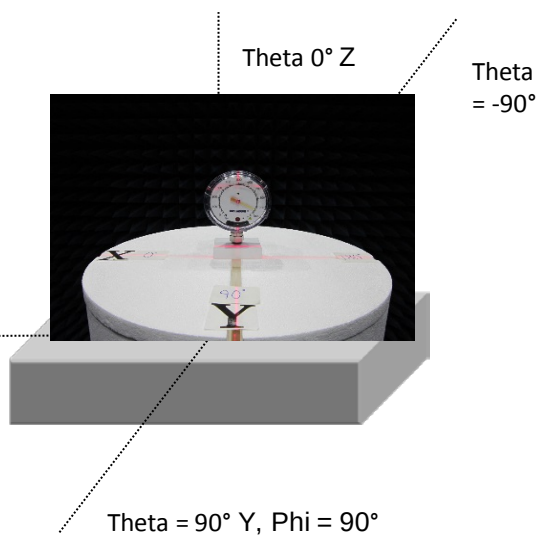
Azimuth Cut (Theta Axis = 90°)



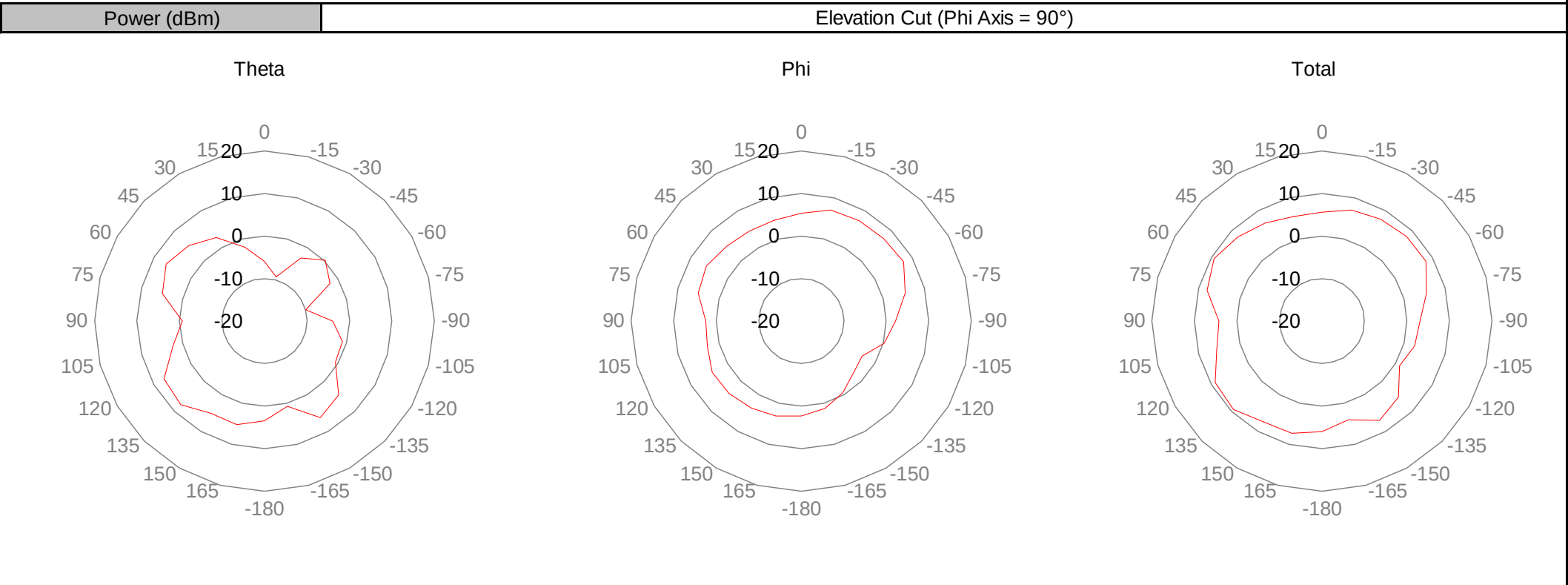
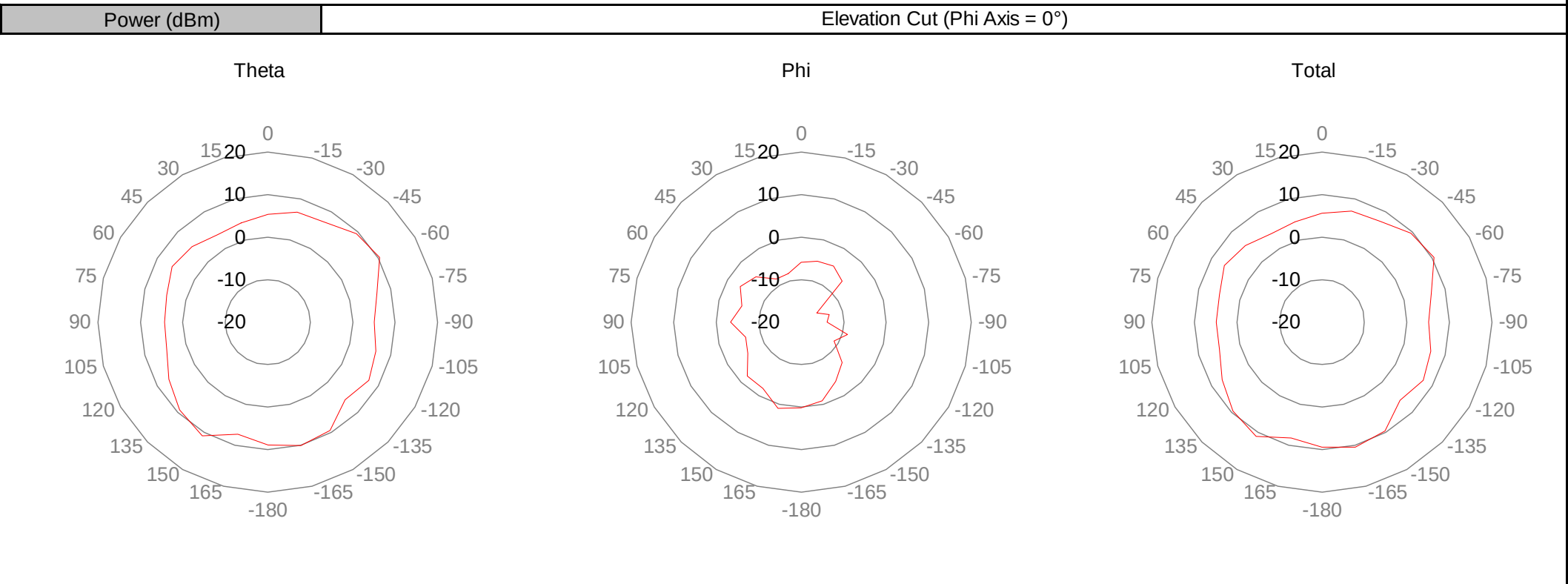
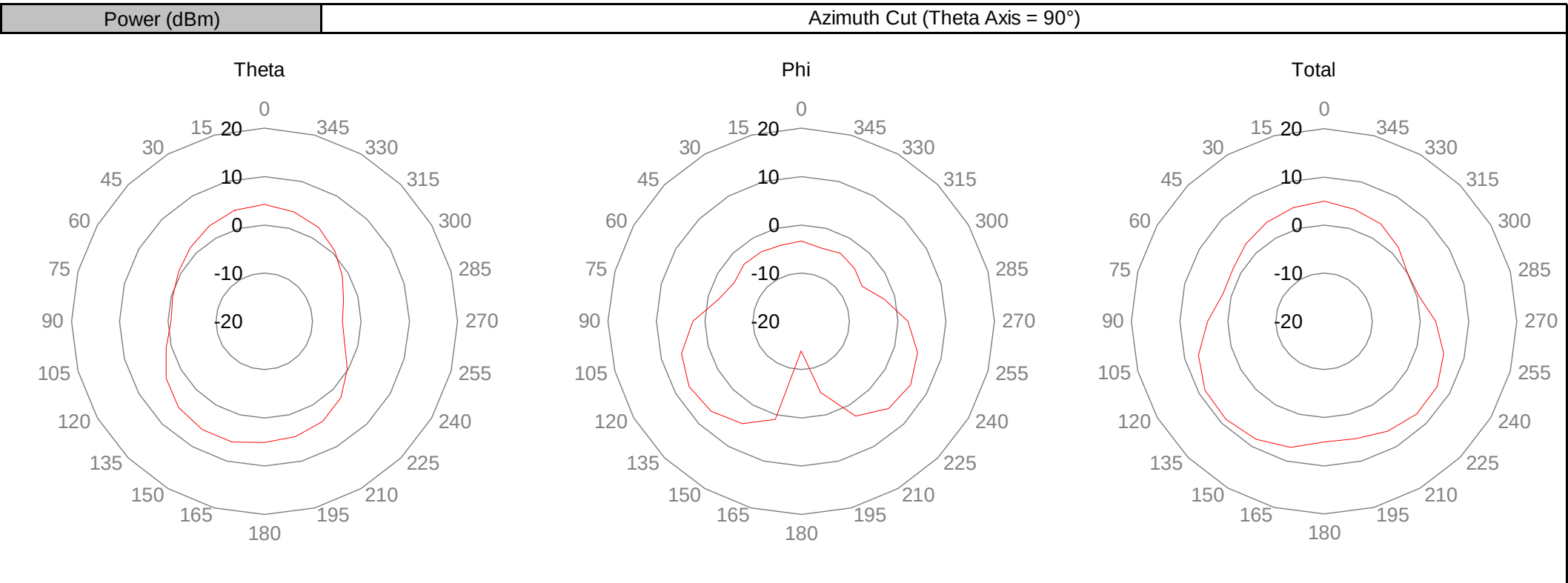
Elevation Cut (Phi Axis = 0°)



Elevation Cut (Phi Axis = 90°)



POLAR PLOTS



3D ANTENNA PATTERN MEASUREMENTS

EUT:	601
Serial Number:	None
Customer:	Emerson Process Management
Attendees:	John Kielb, Tim OConnell
Customer Project:	None
Tested By:	Jared Ison
Test Run Description:	Ch 2470 MHz SN 601

Work Order:	EMPM0005
Date:	9/16/2015
Temperature:	23.1 °C
Relative Humidity:	55.1% RH
Bar. Pressure:	978.7 mbar
Job Site:	MN10

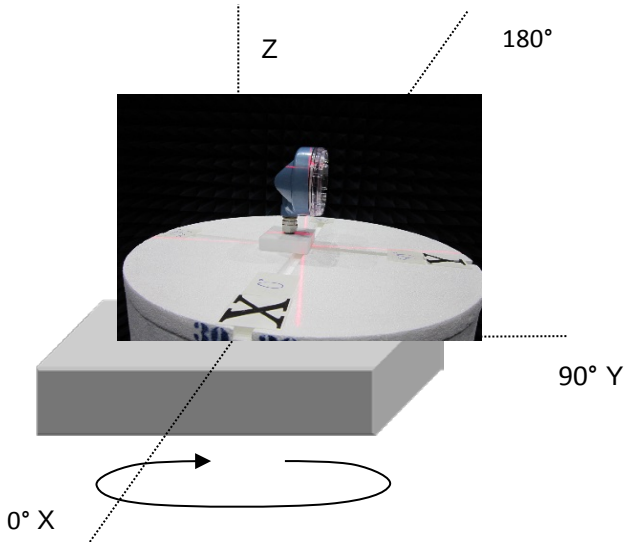
COMMENTS

None

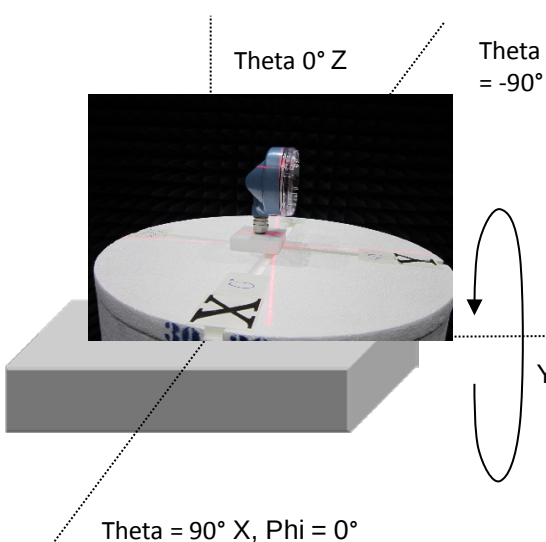
3D PATTERN DATA

Frequency (MHz)	2470
Ant. Port Input Pwr. (dBm)	8.3
Tot. Rad. Pwr. (dBm)	7.27
Peak EIRP (dBm)	11.29
Directivity (dBi)	4.02
Efficiency (dB)	-1.03
Efficiency (%)	78.97
Gain (dBi)	2.99
Average Gain (dB)	-1.03

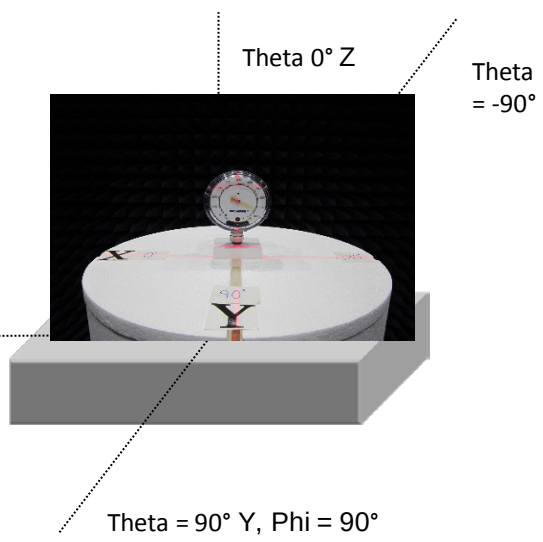
Azimuth Cut (Theta Axis = 90°)



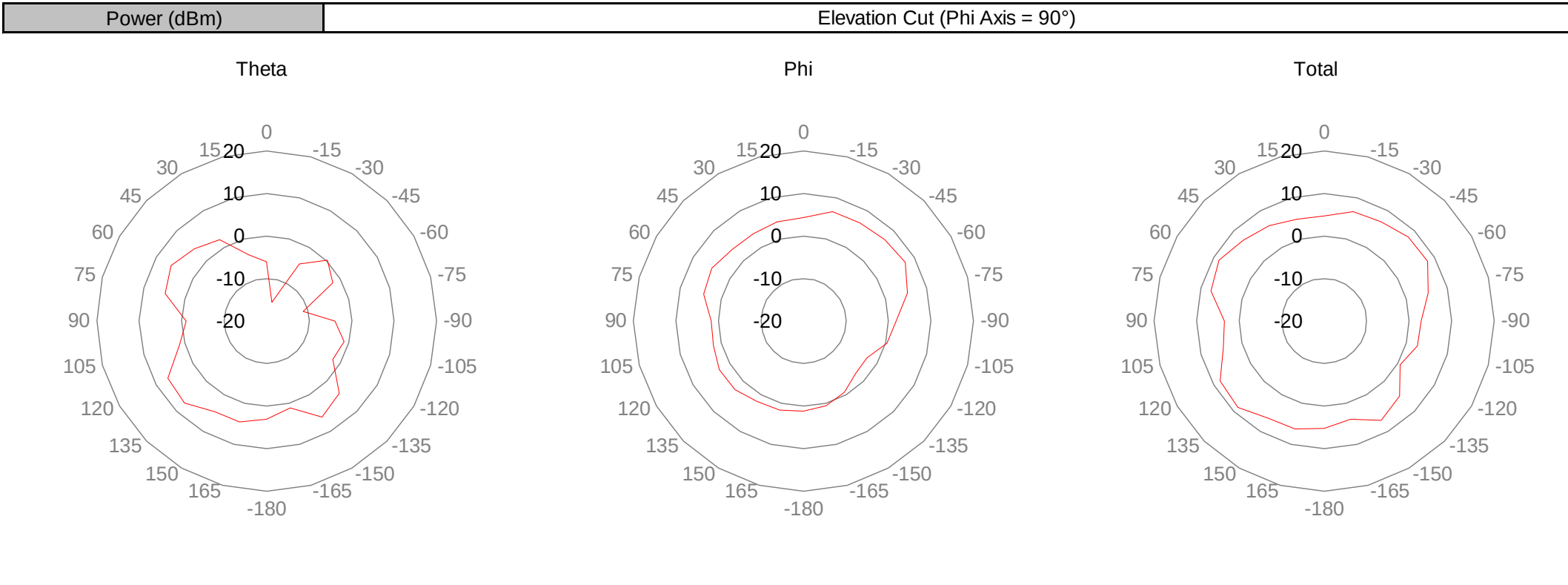
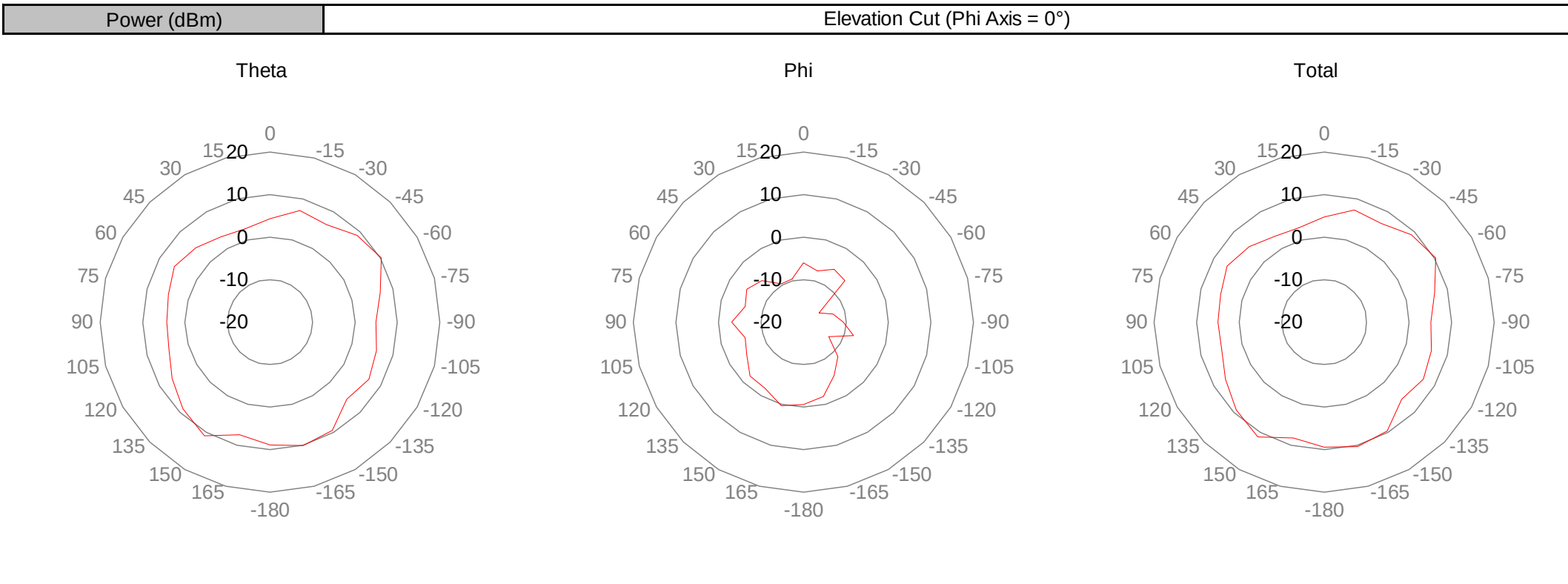
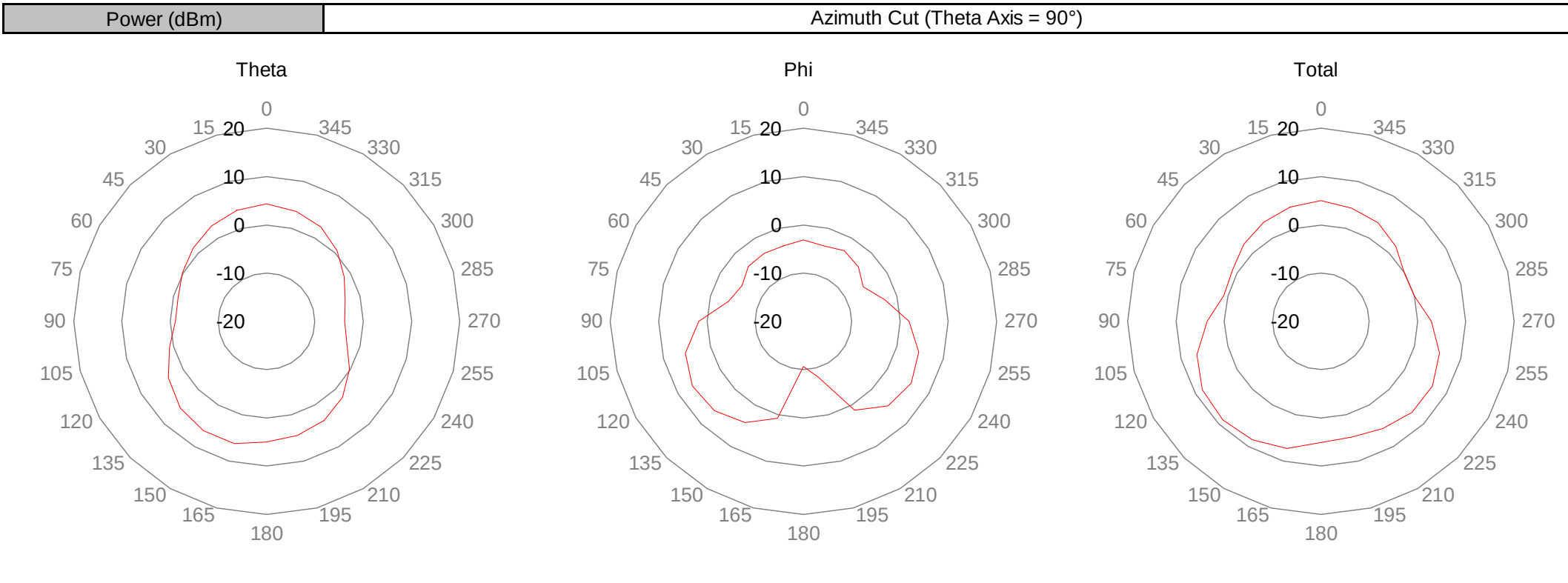
Elevation Cut (Phi Axis = 0°)



Elevation Cut (Phi Axis = 90°)



POLAR PLOTS



SETUP PHOTOS

