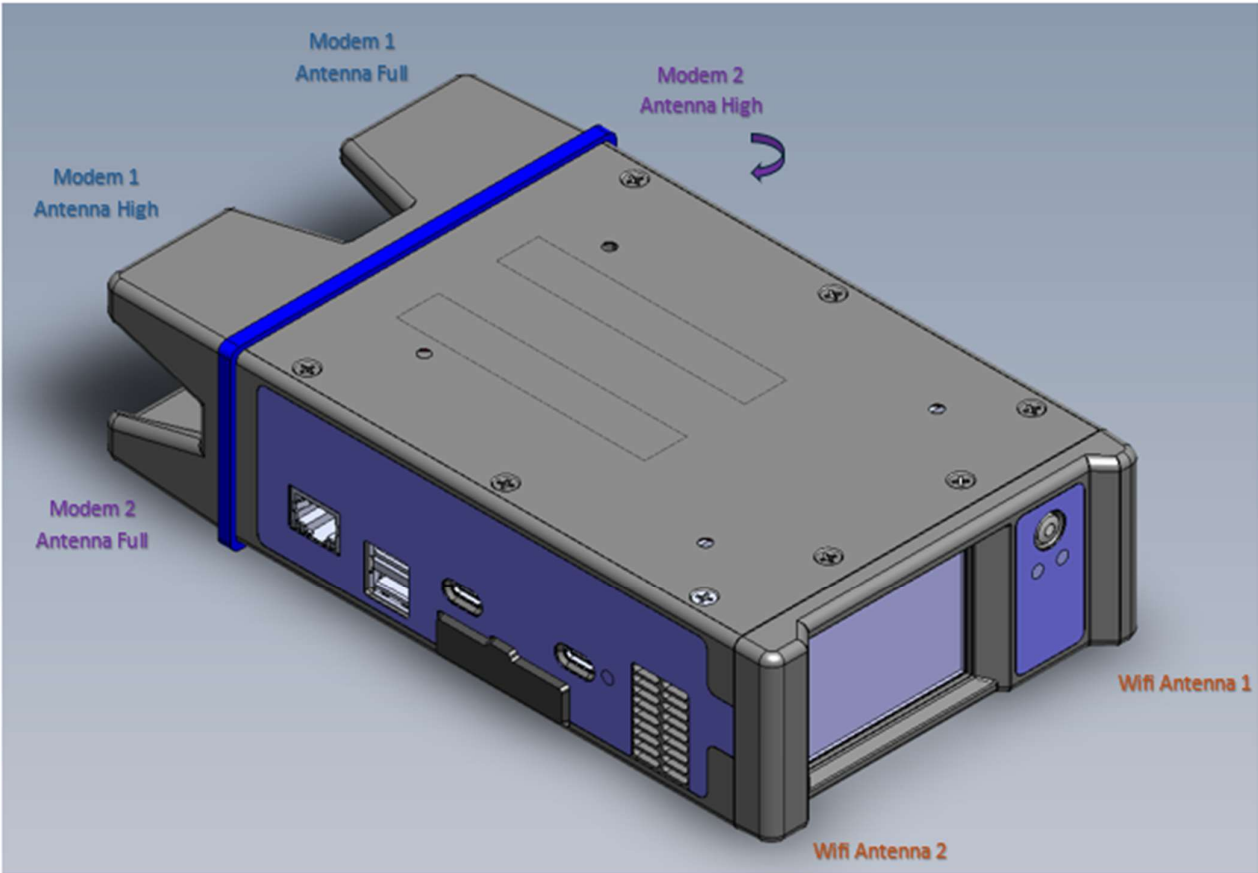


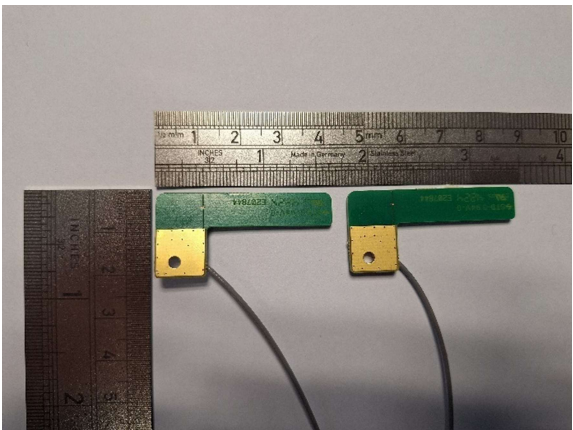
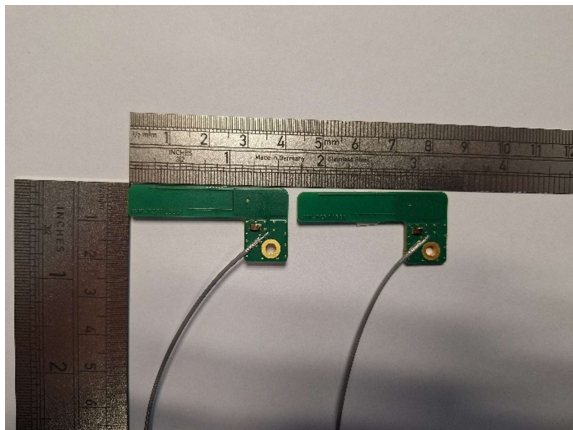
Falkon X2 WiFi-BT Antennas



History of versions

Version	Date	Autor	Description
1.0	18/09/2026	Vincent LOUVEAU	Creation
2.0	18/09/2026	Vincent LOUVEAU	Update confidentiality

WiFi antenna description



Name: XCOLIBRI_ANT_WiFi_MAIN

XCOLIBRI_ANT_WiFi_AUX

Operating frequency bands 2400 MHz – 2480 MHz
5150 MHz – 5925 MHz
5925 MHz – 7125 MHz

Type: Omni-Directional Embedded PCB Antenna, Radiated element is a printed track.

Typical input impedance: 50 ohms

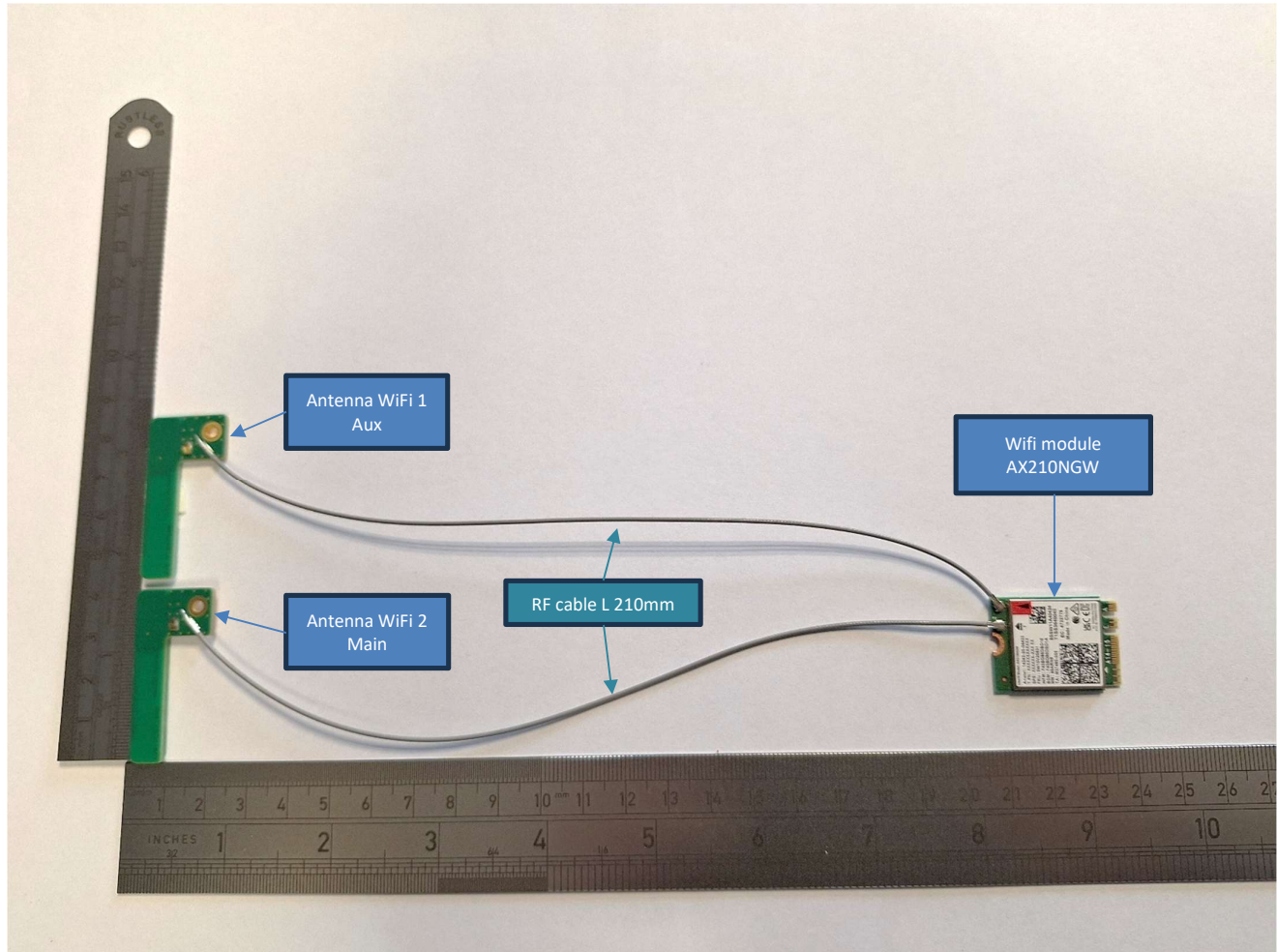
VSWR: < 3:1

Connector: RF connection (to the AX210NGW) is using a MHF 4 (U.FL) receptacle mounted on the PCB.

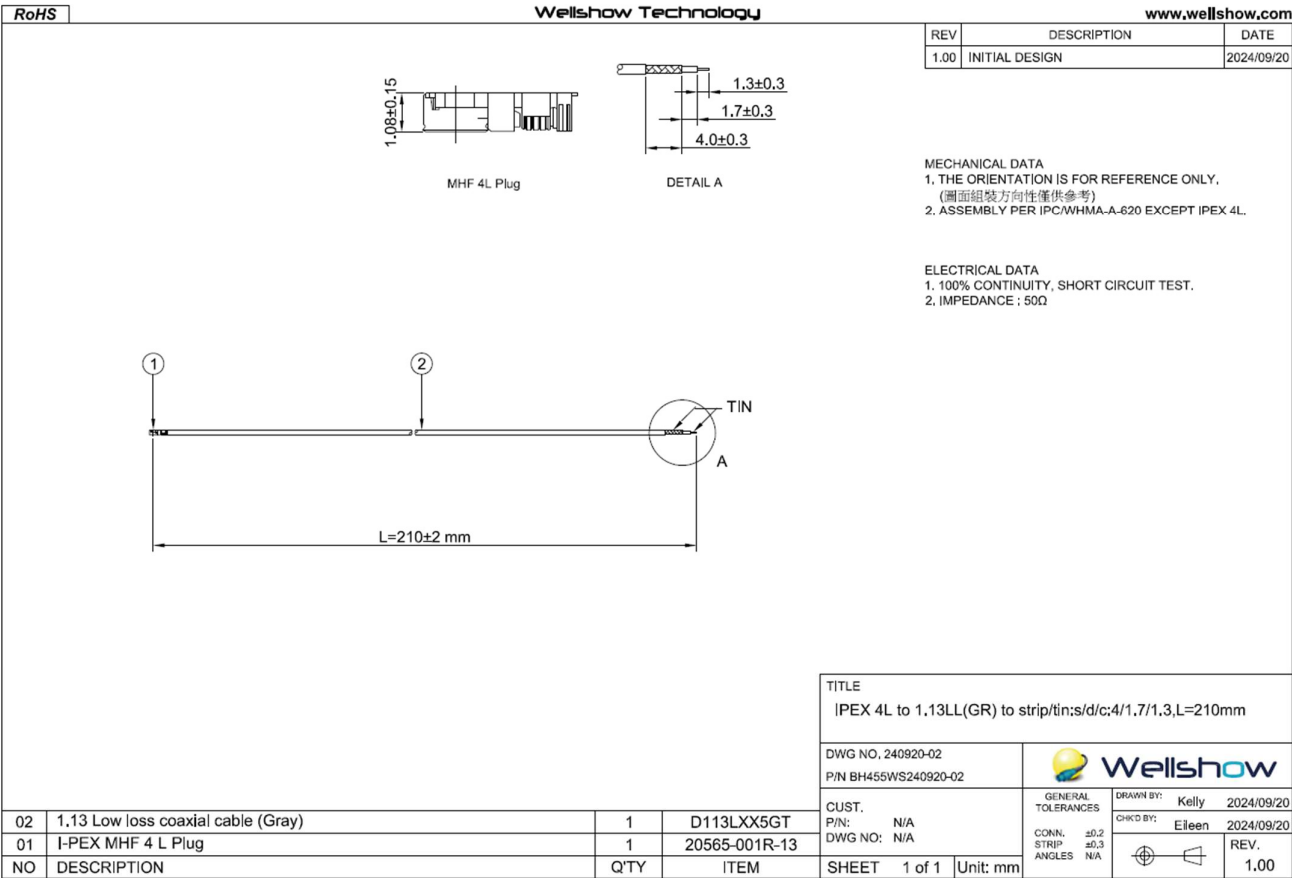
Max gain (including RF cable loss):

Gain (dBi) / Frequency (MHz)	2400	2483	5150	5500	5725	5925	6425	6875	7125
WiFi 1 = WiFi G => AUX	+0.7	+1.3	+2.9	+1.9	+1.5	+1.6	+2.0	+0.8	+4.0
WiFi 2 = WiFi E => MAIN	+1.9	+0.2	+2.2	+2.7	+4.2	+4.3	+2.5	+2.2	+4.6

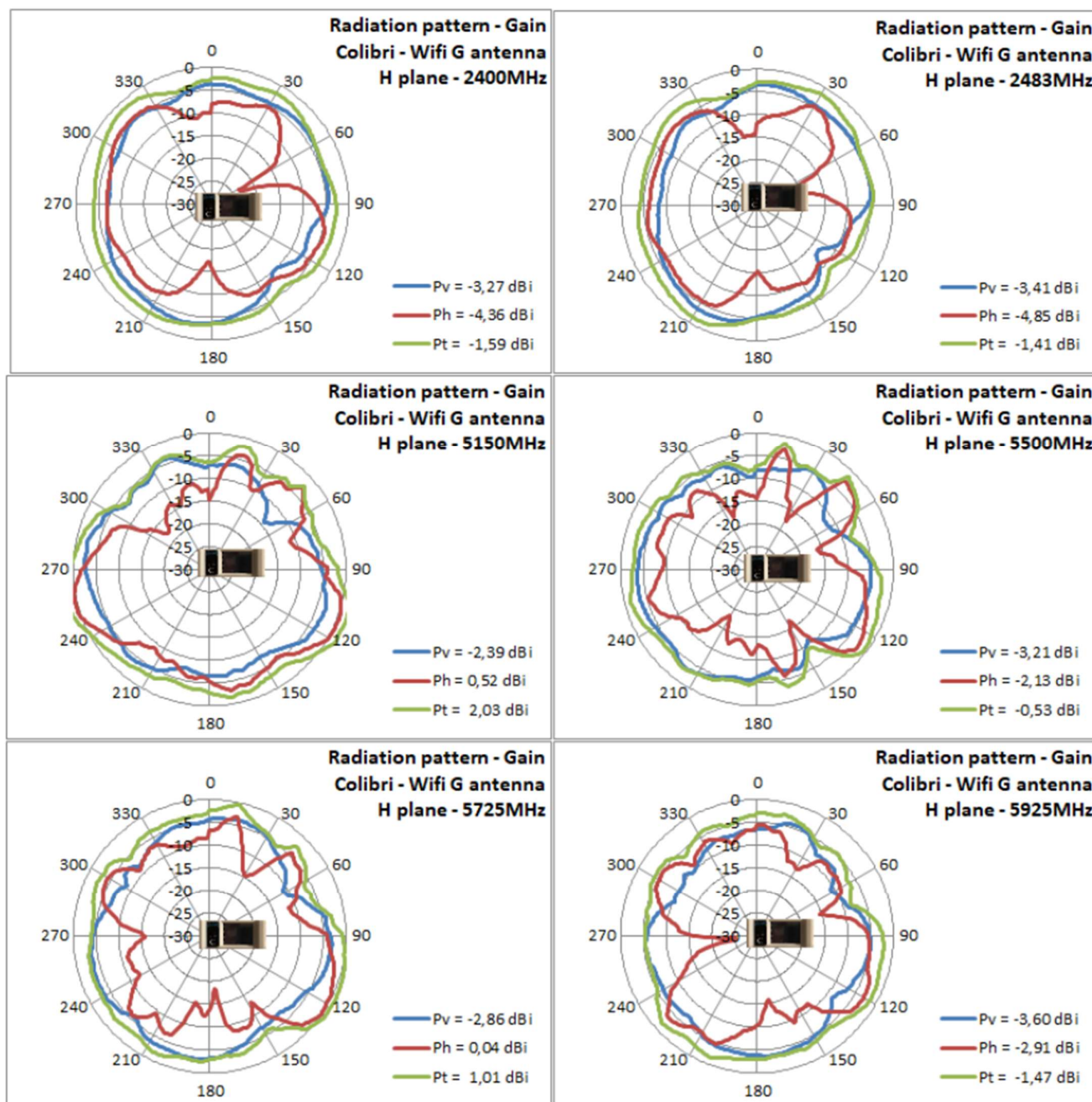
Connection to the AX210NGW

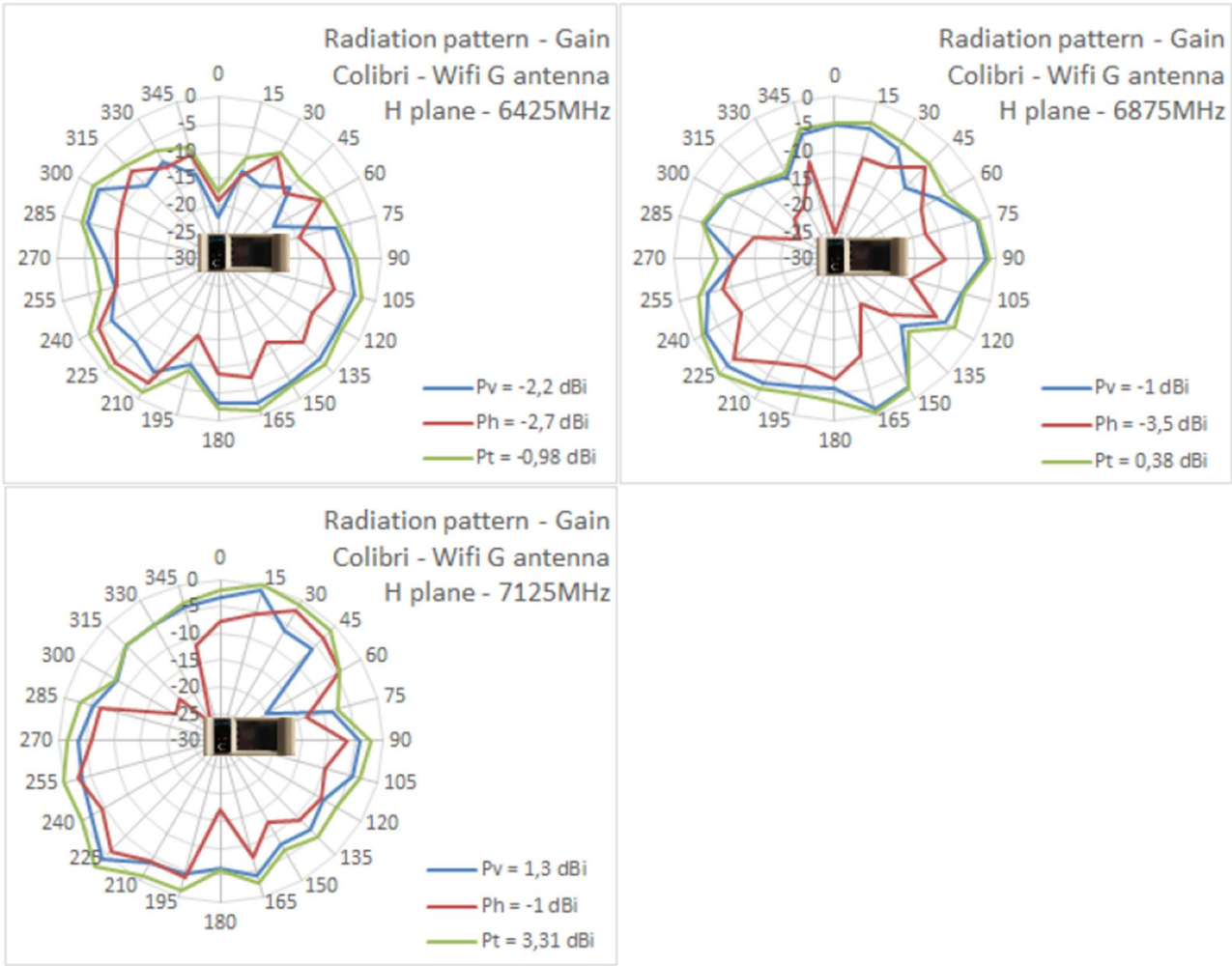


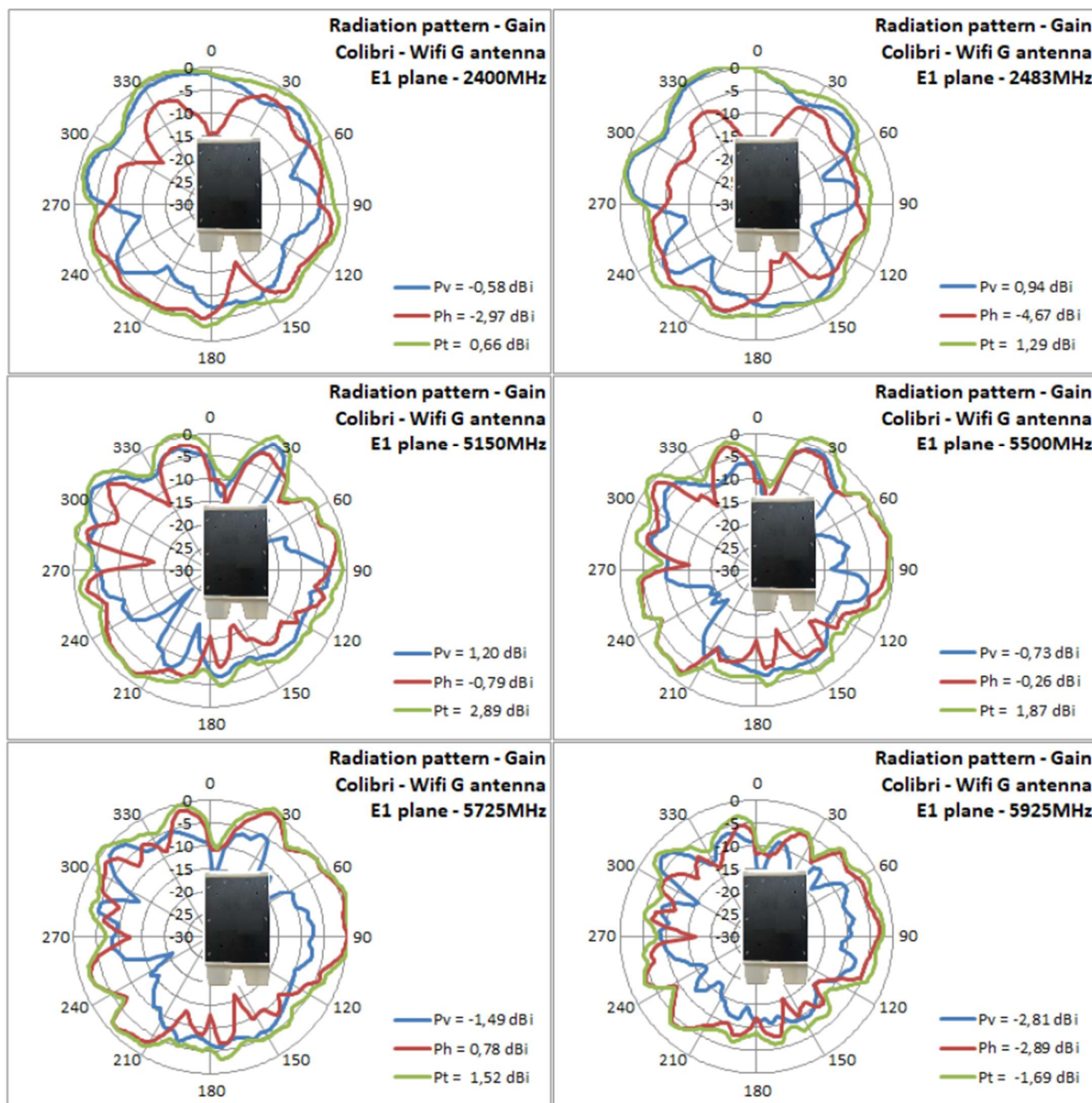
RF cables:

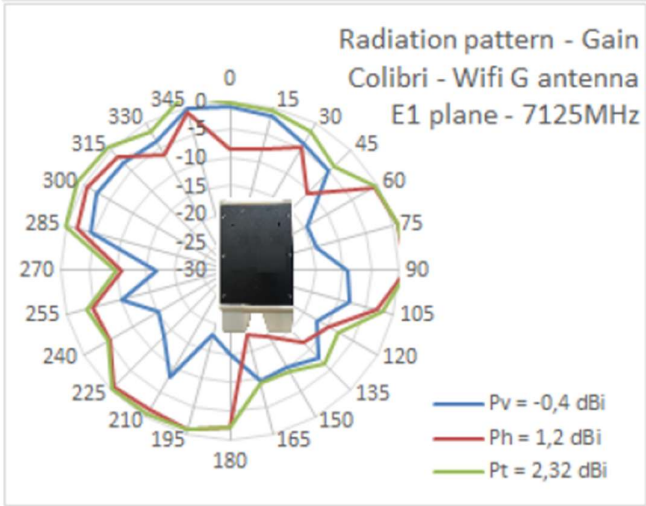
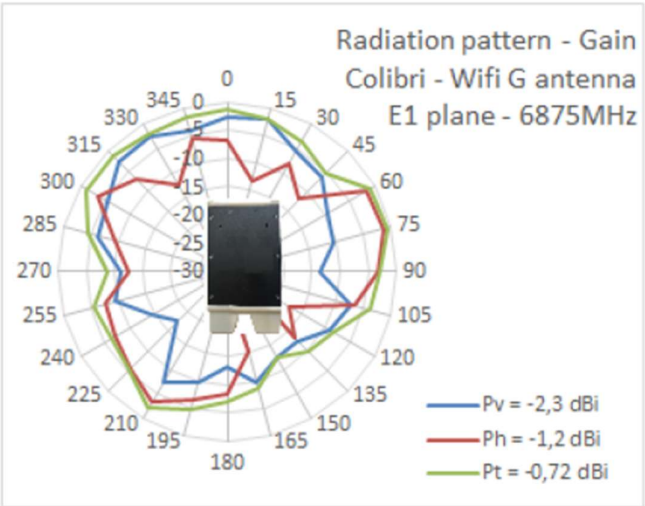
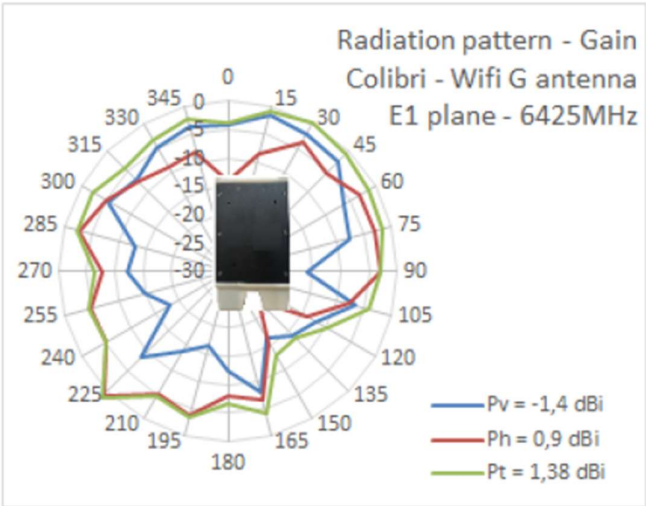


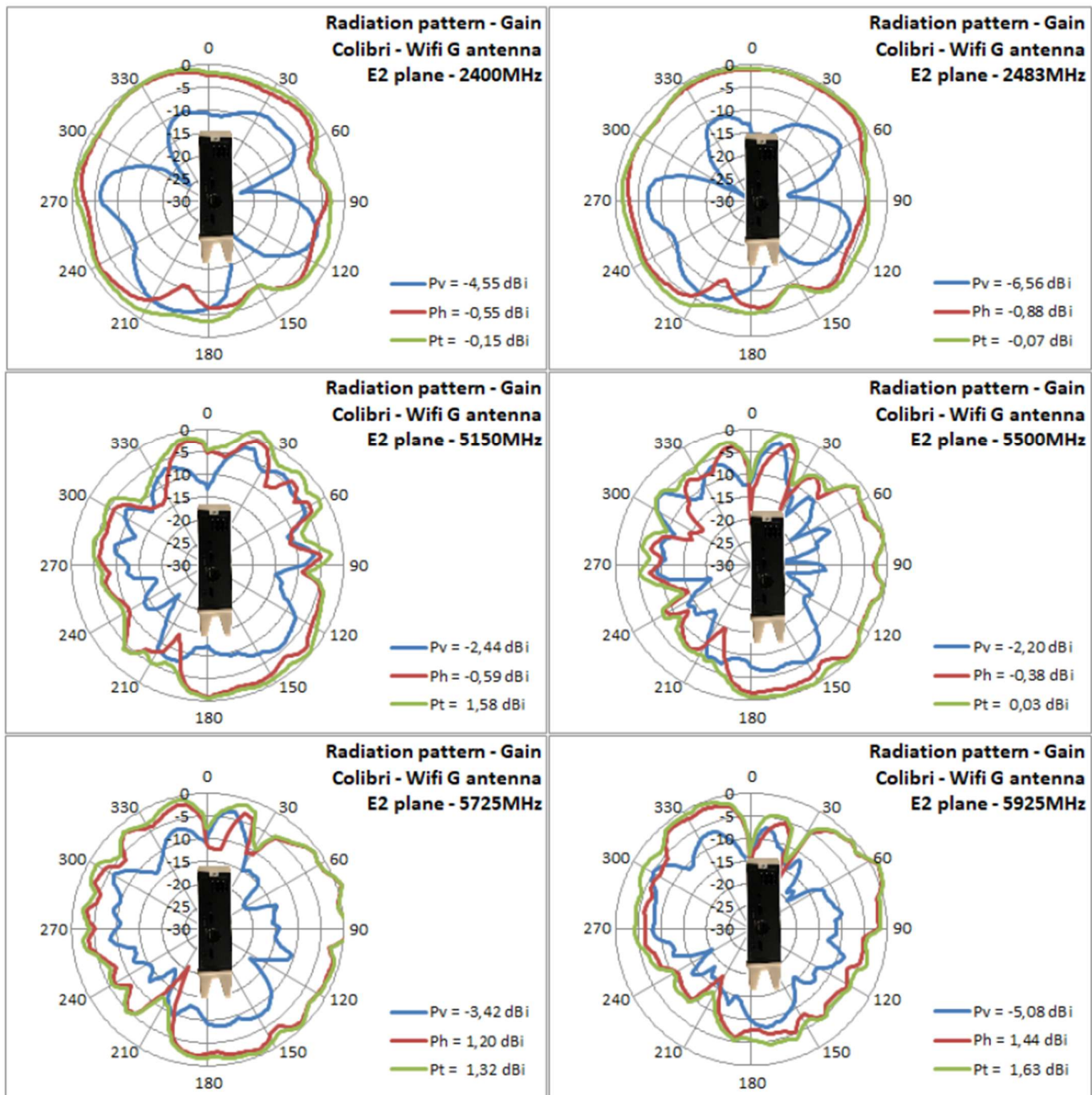
Radiation Patterns WiFi 1 – WiFi G (AUX)

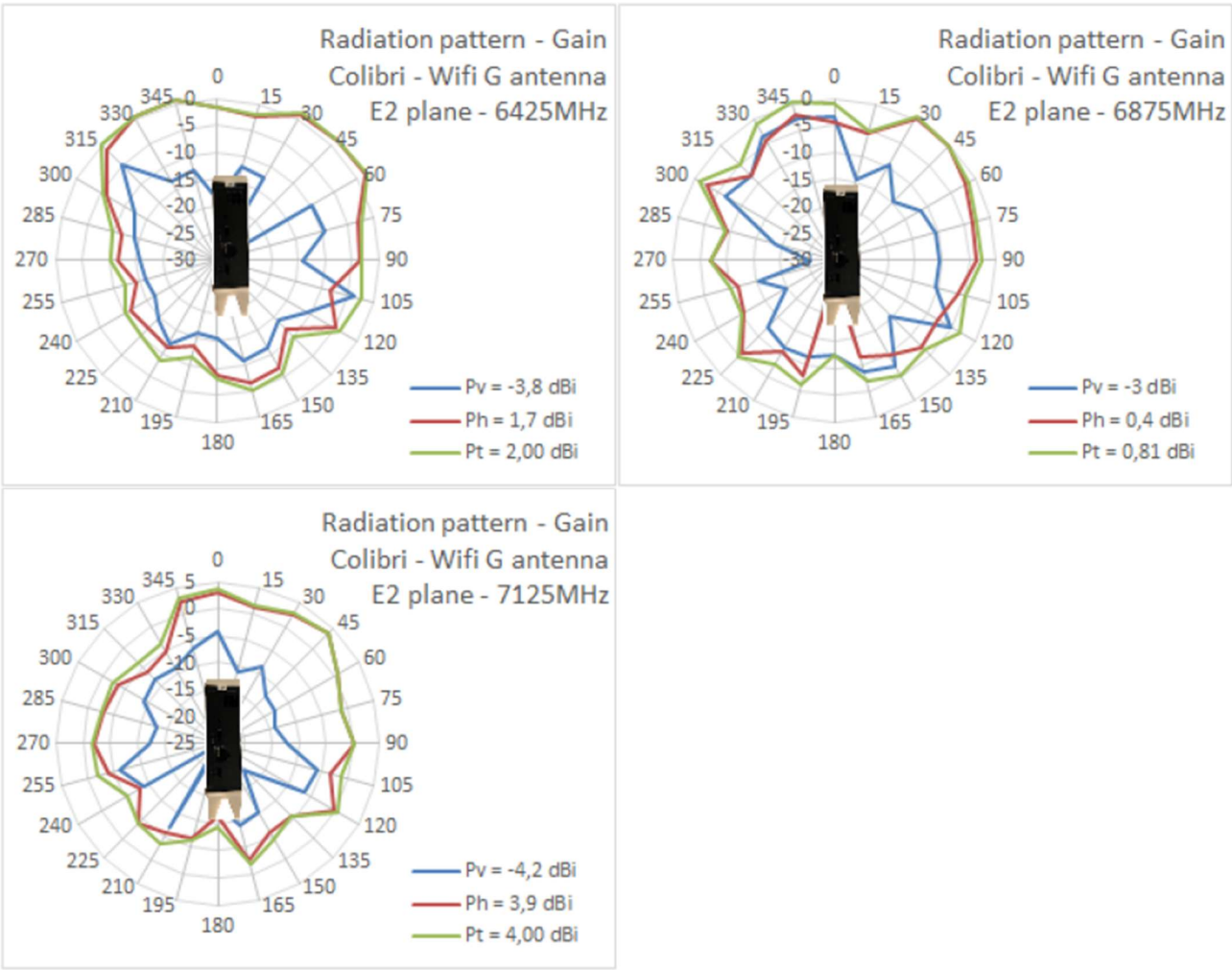












Radiation Patterns WiFi 2 – WiFi E (MAIN)

