

Vivint Magellan Antenna Specifications

2023.03.23



Agenda

- Sample Picture
- Antenna specifications
 - Antenna Information
 - Antenna Peak Gain
- Antenna Outline
- Radiation Pattern
 - WLAN Chain 0/1
 - 345 / Z-Wave



Antenna specifications

- Antenna Information :

Antenna Number	Type	Polarization	Brand	Model	Cable length	Connector type
Z-Wave	PIFA	Linear	WNC	48XKAB2C.0GAFHYE	N/A	None
345MHz	Dipole	Linear	WNC	3S.004KJ.111	N/A	None
WLAN (chain 0)	Dipole	Linear	WNC	95XKAB15.GA4	66mm	IPEX MHF
WLAN (chain 1)	Dipole	Linear	WNC	95XKAB15.GA5	147mm	IPEX MHF

Antenna specifications

- Antenna Peak Gain :

Z-Wave	Peak Gain (dBi)
915 MHz	0.77

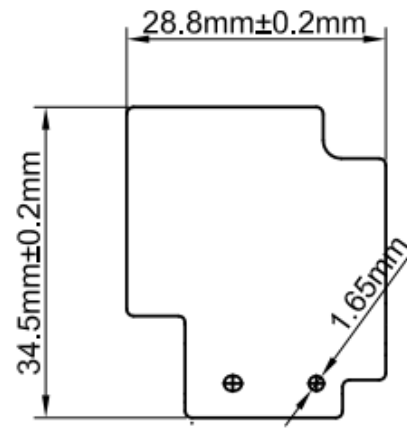
WLAN (Chain 1)	Peak Gain (dBi)
2.4 G	2.90
5 G	2.06

345	Peak Gain (dBi)
345 MHz	1.02

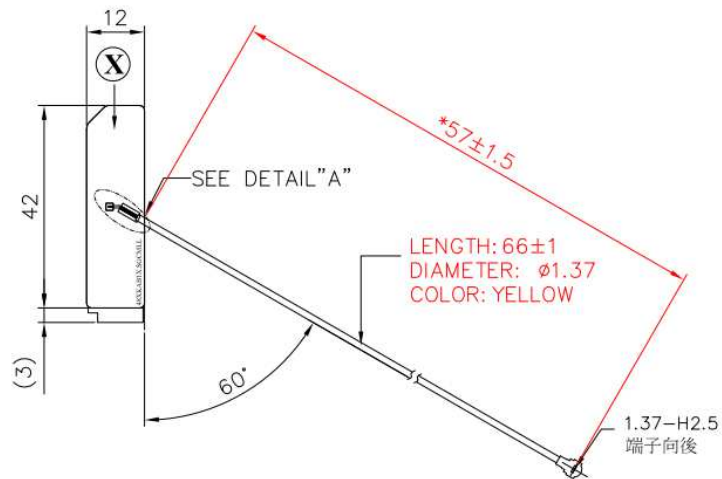
WLAN (Chain 0)	Peak Gain (dBi)
2.4 G	2.76
5 G	2.65



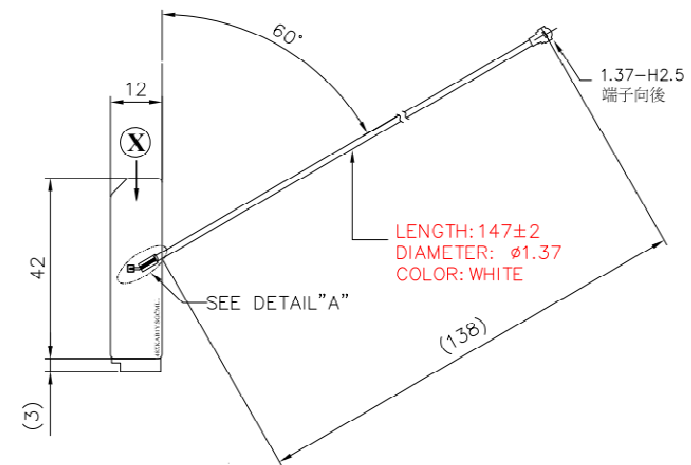
Antenna Outline



Z-Wave Antenna FPC outline (with cable)



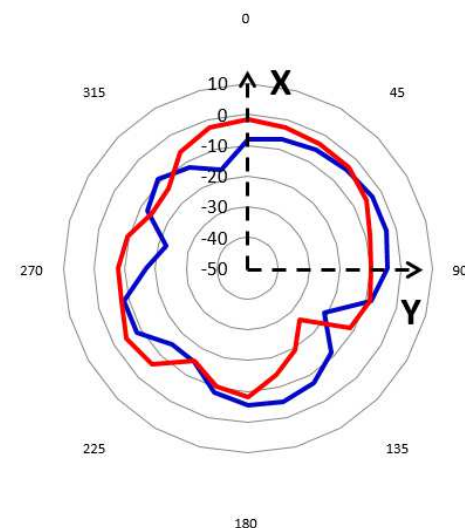
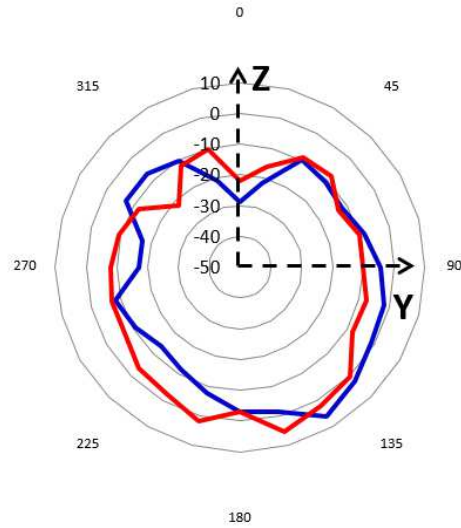
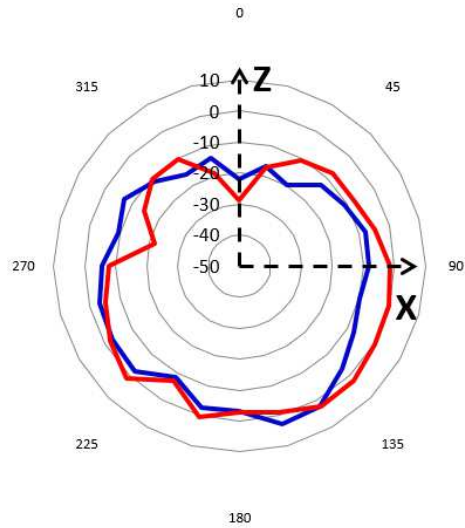
WLAN Chain 0 outline (With cable)



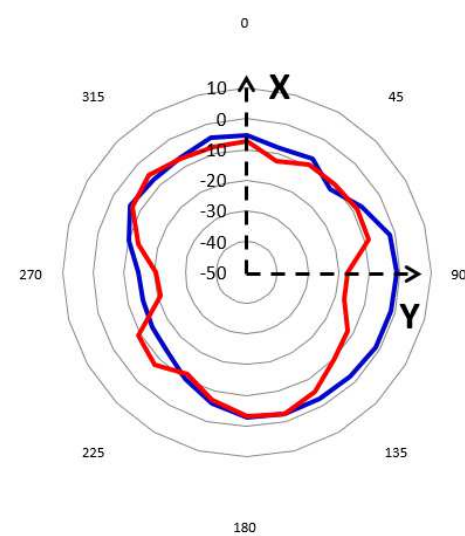
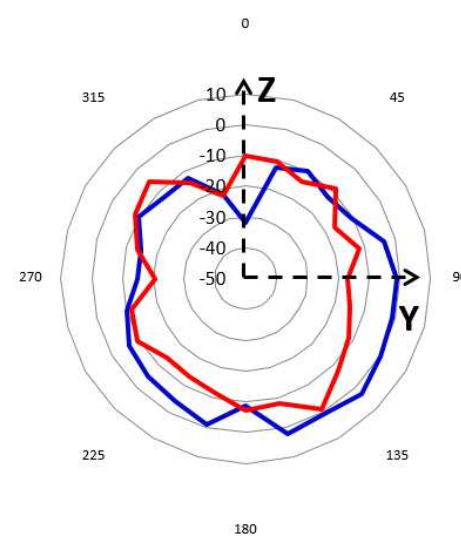
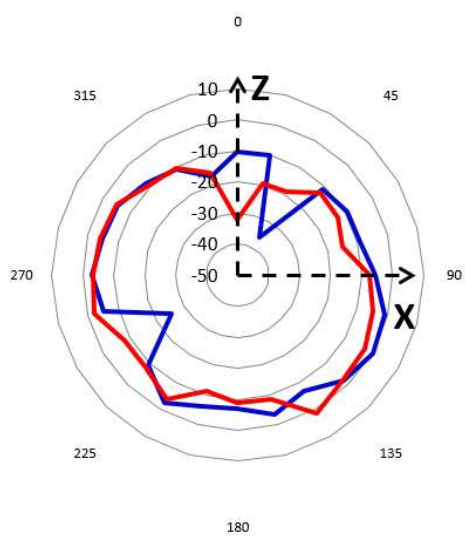
WLAN Chain 1 outline (With cable)

Antenna Radiation Pattern – WLAN antenna_2400 MHz

WLAN
Chain 0

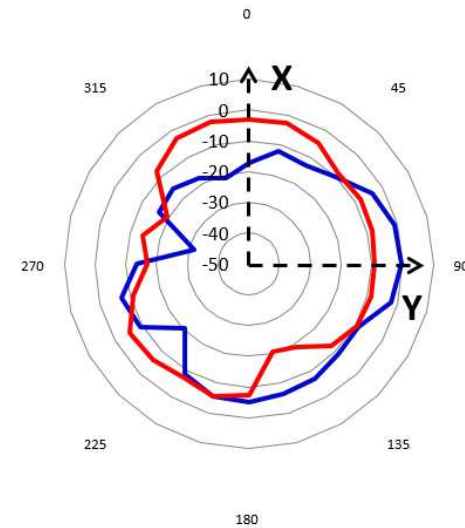
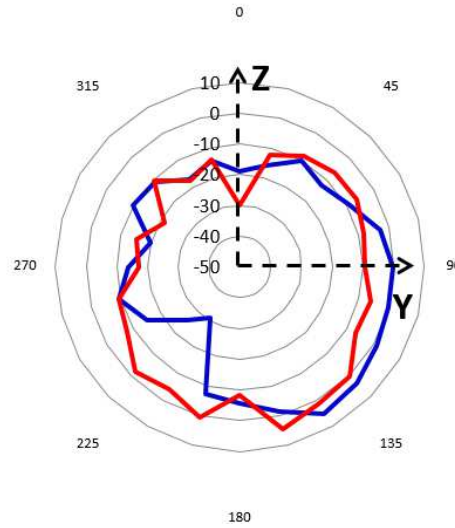
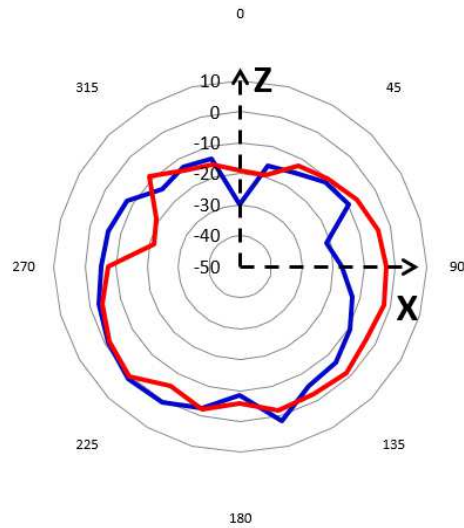


WLAN
Chain 1

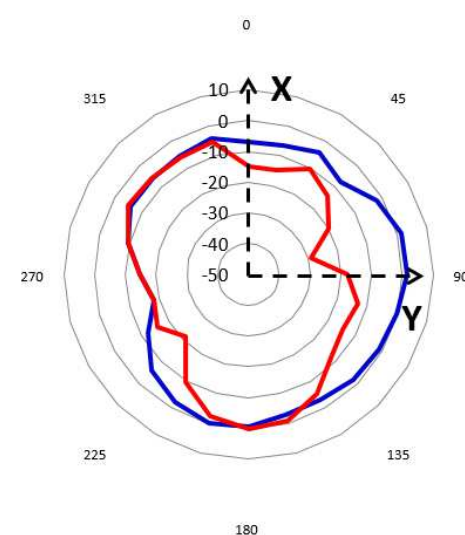
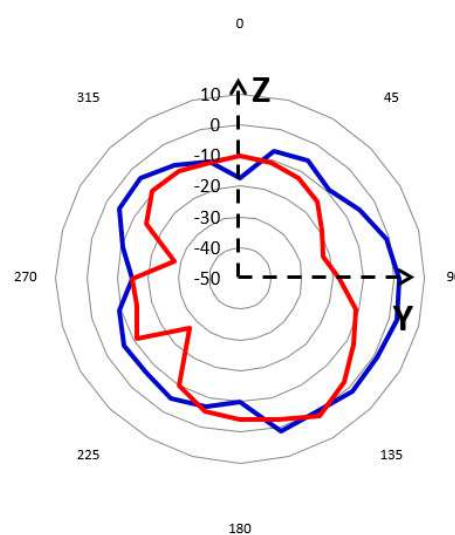
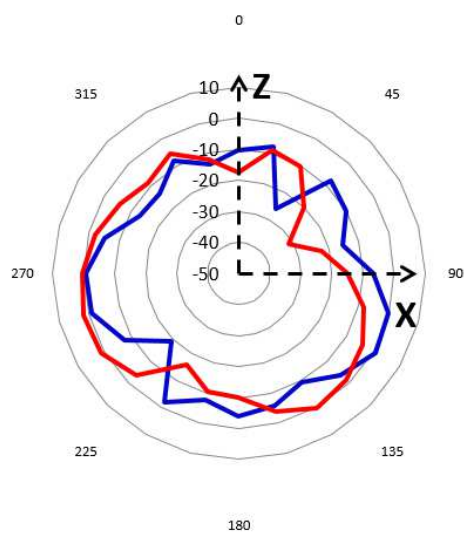


Antenna Radiation Pattern – WLAN antenna_2500 MHz

WLAN
Chain 0

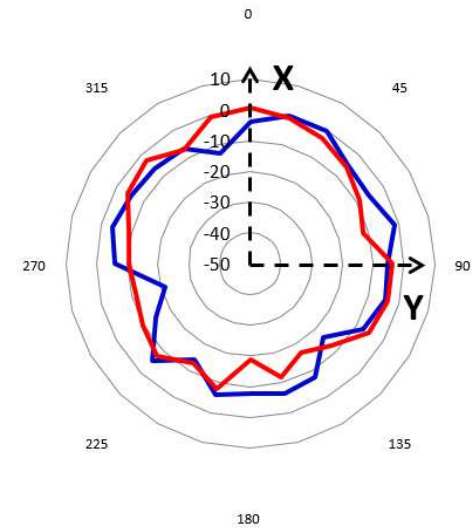
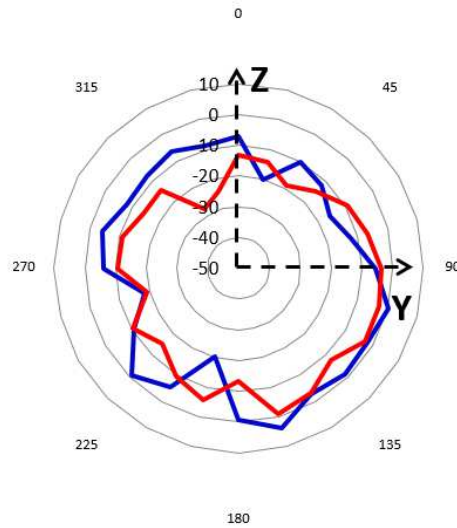
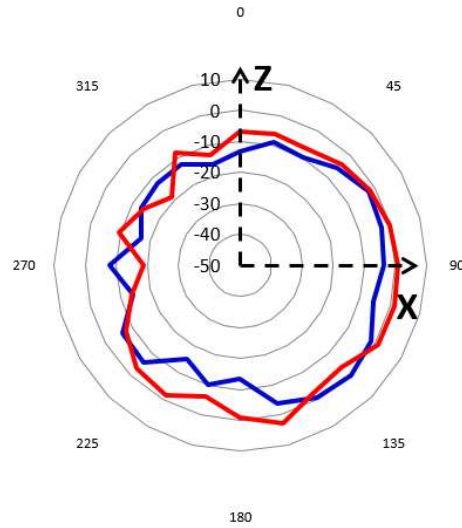


WLAN
Chain 1

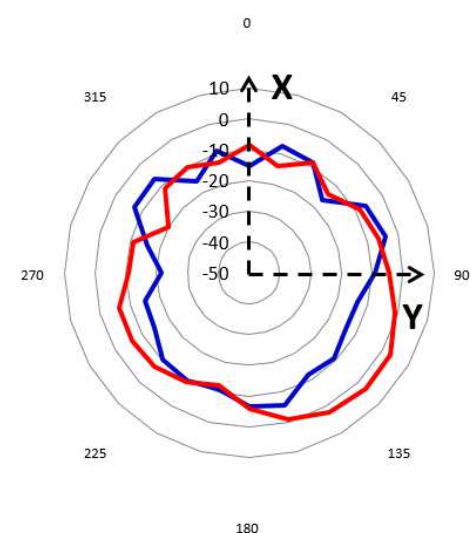
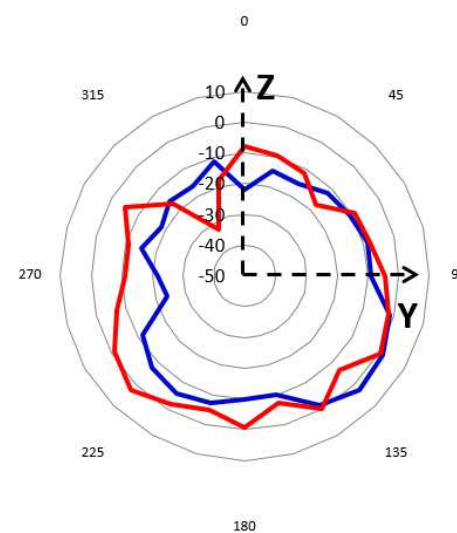
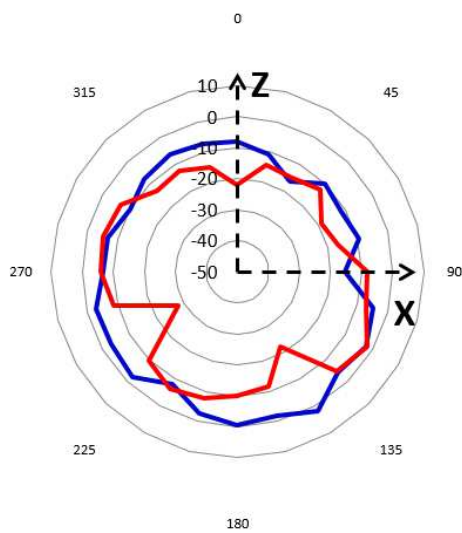


Antenna Radiation Pattern – WLAN antenna_5150 MHz

WLAN
Chain 0

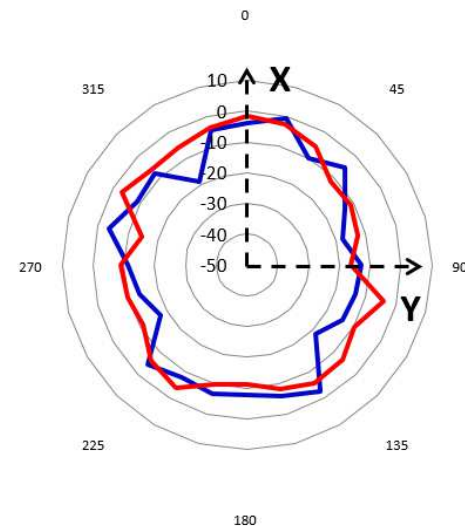
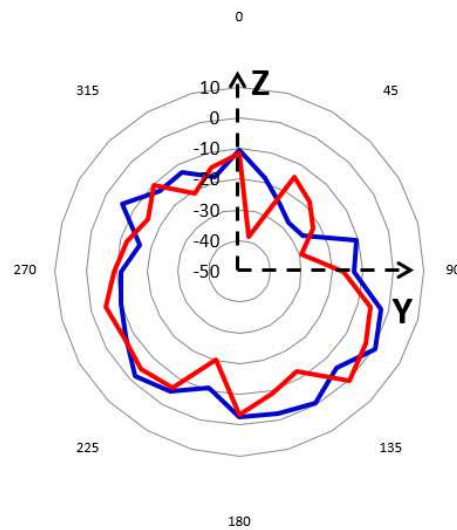
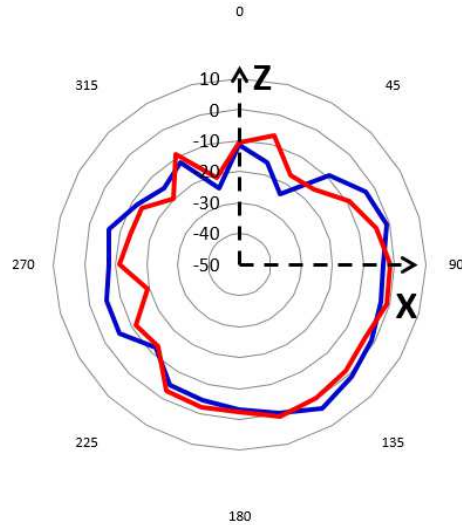


WLAN
Chain 1

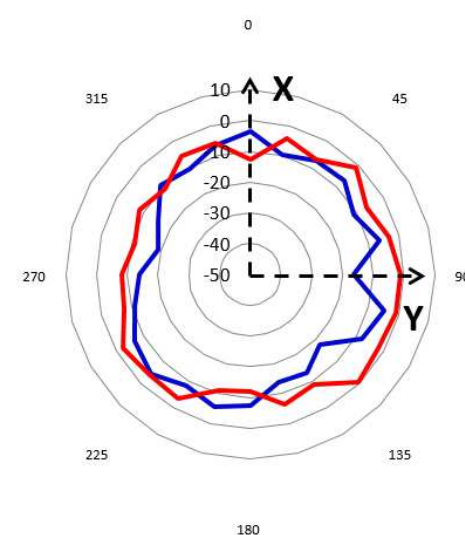
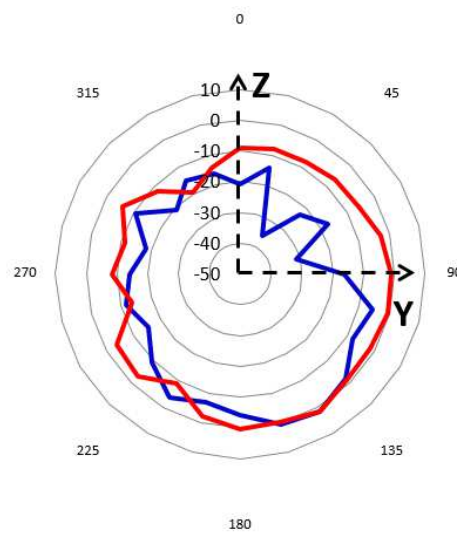
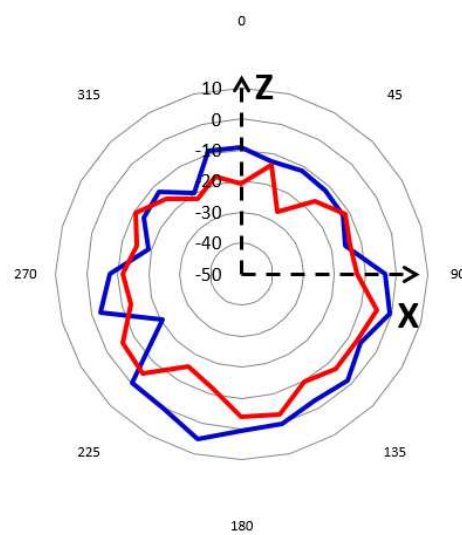


Antenna Radiation Pattern – WLAN antenna_5850 MHz

WLAN
Chain 0

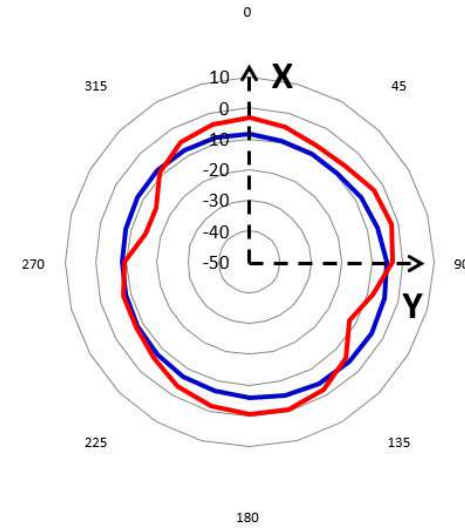
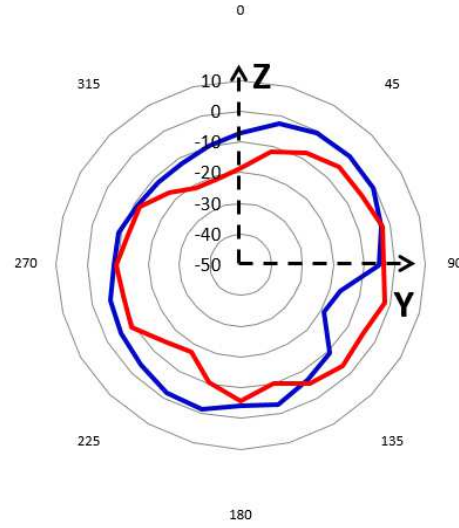
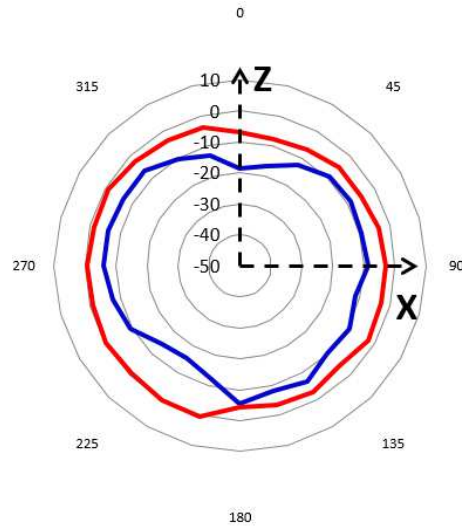


WLAN
Chain 1



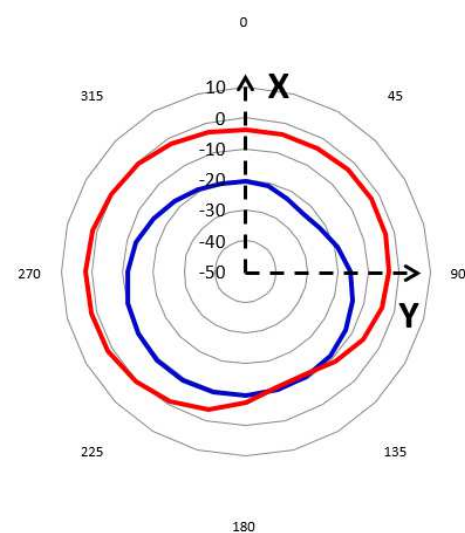
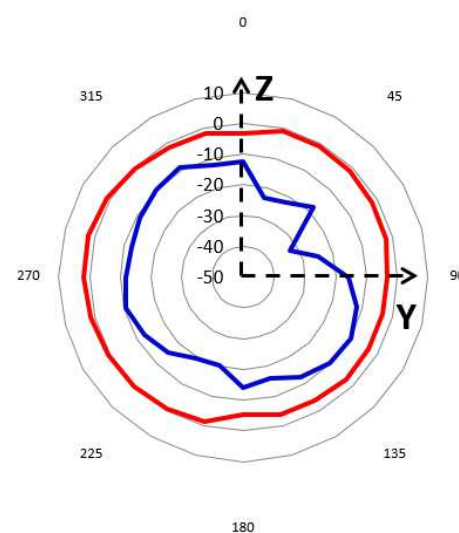
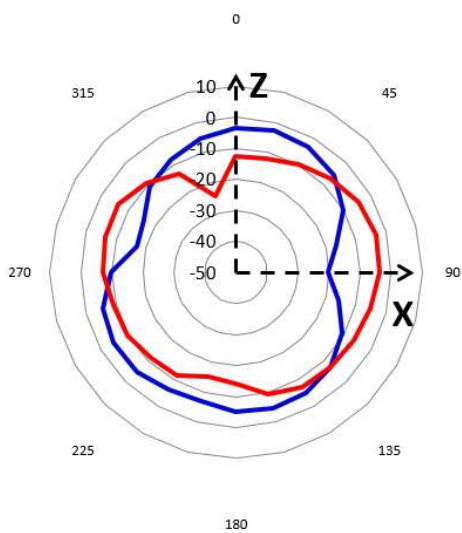
Antenna Radiation Pattern – 345MHz & Z-wave antenna

Z-wave

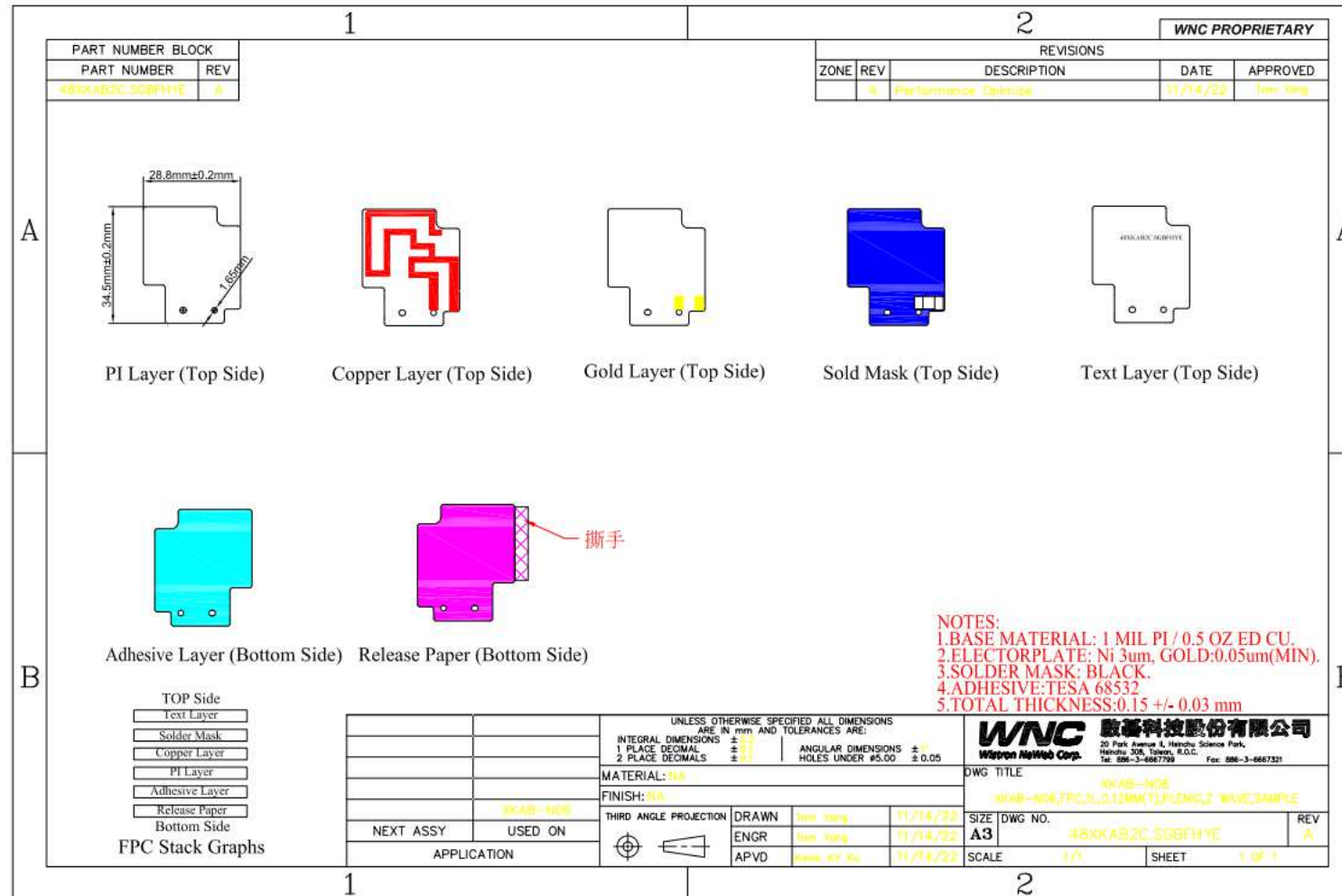


345MHz

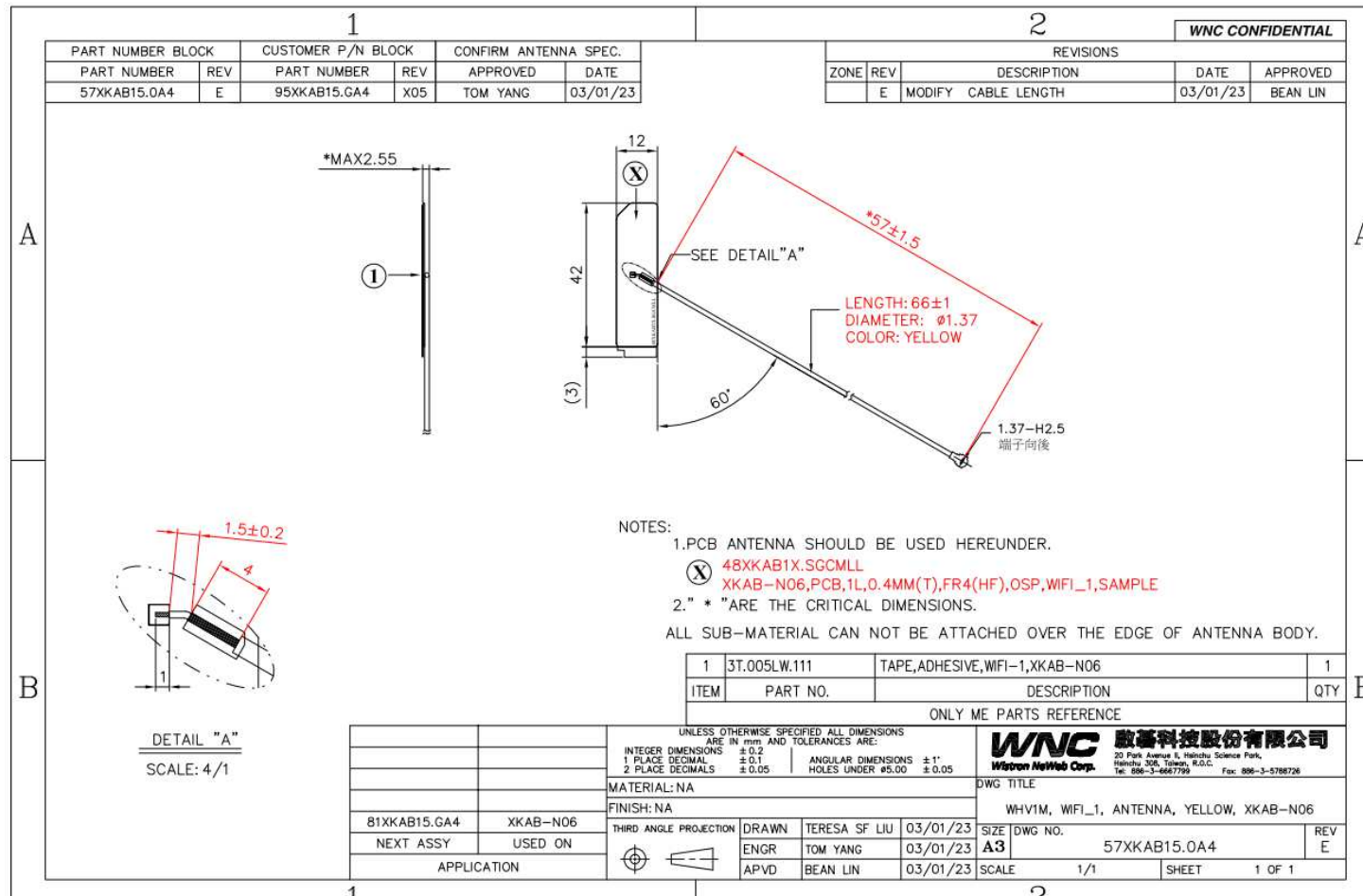
— V-Pol.
— H-Pol.



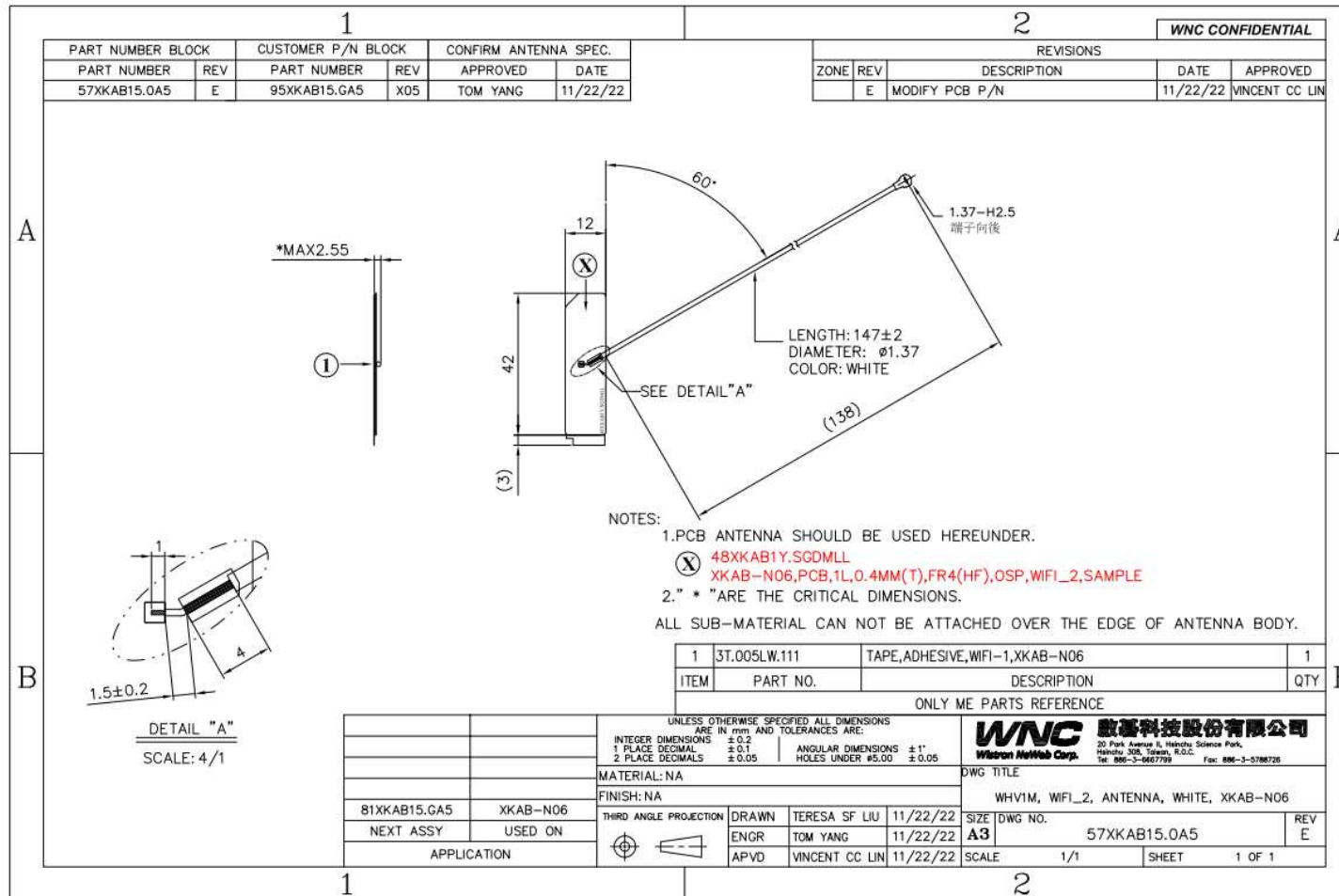
Appendix – Z wave



Appendix – WiFi 1



Appendix – WiFi 2



Appendix – 345MHz

