



Attn: Reviewing Engineer  
Federal Communications Commission  
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**HVIN:** JODY-W164-03A    **FCC Certification Number:** XPYJODYW164    **Approval Date:** 2018-07-20

## Application to Class II Permissive Change

This request is to add an antenna and trace design changes to the JODY-W164-03A module with FCC ID XPYJODYW164. The trace design and the antenna are included in a product commercialized by one of u-blox's customers. No hardware changes have been made to the JODY-W164-03A.

New Antennas:

Model	Type	Frequency range	Peak Gain
APAMBJ-170	RP-SMA	2.4 GHz, 5.0 GHz	4.0 dBi/ 5.2 dBi

To compare the measurement results of the new antenna and the changed trace designs with the already certified reference design, the following tests were performed:

Maximum Conducted Output Power  
Peak Power Spectral Density  
Undesirable Emissions; General Field Strength Limits  
Band Edge  
Transmitter Spurious Radiated Emissions  
Band Edge Compliance Radiated

The power values have been reduced to fulfill the FCC requirements. See the test reports MDE\_UBLOX\_1814\_FCCa\_rev2 and MDE\_UBLOX\_1814\_FCCb\_rev2 for details.

Thank you for your attention in this matter.

Yours Sincerely,

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Filip Kruzela  
Certification Manager, u-blox AG