



Attn: Reviewing Engineer
Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

Registered office:
u-blox AG
Zürcherstrasse 68
8800 Thalwil
Switzerland

Company number: CH-020.3.020.161-7

info@u-blox.com
support@u-blox.com

HVIN: JODY-W374-00A **FCC Certification Number:** XPYJODYW374 **Approval Date:** December 2, 2022

Application to Class II Permissive Change

This request is to add three new module variants to the existing FCC ID XPYJODYW374:

- JODY-W354-00A
- JODY-W354-20A
- JODY-W374-20A

Compared to the already certified JODY-W374-00A module:

- the new **JODY-W354-00A** module has a pin-to-pin compatible Chipset change moving from NXP 88Q9098 to NXP AW690. Both 88Q9098 and AW690 have same design both from digital baseband and internal RF blocks point of view. Also, those chipsets are constituted of the same die with the AW690 being lower cost.
- the new **JODY-W354-20A** is a JODY-W354-00A module to which a LTE filter (SAW-type filter) has been added in the 2.4GHz WLAN and Bluetooth receive/transmit RF-paths
- the new **JODY-W374-20A** is a JODY-W374-00A module to which a LTE filter (SAW-type filter) has been added in the 2.4GHz WLAN and Bluetooth receive/transmit RF-paths

To compare the measurement results of the new JODY-W354-00A module with the already certified JODY-W374-00A module, the following tests were performed:

- Conducted Emissions at AC Mains
- Occupied Bandwidth (6 dB)
- Occupied Bandwidth (99%)
- Peak Power Output
- Spurious RF Conducted Emissions
- Transmitter Spurious Radiated Emissions
- Band Edge Compliance Conducted
- Band Edge Compliance Radiated
- Power Density

To verify the impact on measurement results of the modules with LTE filter (JODY-W354-20A and JODY-W374-20A) and compare with the already certified module, the following tests were performed on the 2.4GHz band. Other points are covered by measurements conducted either on JODY-W374-00A or JODY-W354-00A:

- Peak Power Output
- Transmitter Spurious Radiated Emissions
- Band Edge Compliance Radiated

Thank you for your attention in this matter.

Yours Sincerely,

Filip Kruzela
Certification Manager, u-blox AG