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Application to Class II Permissive Change

HVIN	PMN	FCC ID
MAYA-W266-00B	MAYA-W266-00B	XPYMAYAW2B
MAYA-W276-00B	MAYA-W276-00B	XPYMAYAW2B

Table 1

This request is to approve the change of the existing Hardware Design revision 02, common in the already certificated MAYA-W2 module variants listed in table 1, to Hardware Design revision 03 with the modifications detailed in the document UBXDOC-885269510-44007 and listed below.

1. Modifications on Printed Circuit Board to re-arrange the layout of few components.
 - Pads for components Capacitors C28, C44 and C47 have been increased and shifted hundreds of micrometers to increase its distance in between them and avoid the risk of short-circuit.
 - Pads of Chipset's Ball Grid Array in Hardware Design revision 03, are solder mask defined with exposed copper area diameter of 170 micrometer compared to Pads of Chipset's Ball Grid Array in Hardware Design revision 02 that are not solder mask defined with exposed landing pads are with diameter of 180um.
2. Modification of the Shield
 - Shield design in Hardware Revision 03 was updated to include a cutout that permit the reposition of Capacitors C47 to increase its distance to Capacitor C44

These proposed changes have been introduced with the intention to improve the product design for manufacturability and reliability robustness. These changes are not impacting the RF performance of the MAYA-W2 modules.

To compare the measurement results of the module after the design change and the already certified design, the following tests were performed:

- Maximum Conducted Output Power
- Undesirable Emissions, General Field Strength Limits
- Peak Power Output
- Spurious RF Conducted Emissions
- Transmitter Spurious Radiated Emissions
- Band Edge Compliance Conducted
- Band Edge Compliance Radiated

Thank you for your attention in this matter.

Sincerely,

Filip Kruzela

Certification Manager, u-blox AG