

FCC and IC Certification Concept

on

Cellular module

LISA-U201

FCC ID: XPYLISAU201

IC 8595A-LISAU201

Report Reference: MDE_UBLOX_1519_Doc_01

according to FCC, IC

Date: 2015-09-09



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FCC Test Site Listing 96716

Industry Canady Test Site Acceptance 3699A

Project Data

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1 Introduction

For the following cellular module valid FCC and IC certifications are existing:

LISA-U200

FCC ID: XPYLISAU200 IC 8595A-LISAU200 Hardware: 146001 Software: 21.03.00

Based on this product the manufacturer u-blox derived a variant called:

LISA-U201

FCC ID: XPYLISAU201 IC 8595A-LISAU201 Hardware: 214000 Software: 21.03.00

The changes from HW 146001 to HW 146Axx are described in the u-blox document: Delta Description LISA-U200.pdf / Doc. ID: UBX-15022802 / dated: 09/09/2015

The changes from HW 146Axx to HW 214000 are described in the u-blox document: Delta Description LISA-U_Rev_4.0.pdf / Doc. ID: UBX-14045347 / dated: 02/04/2015

The purpose of this document is to describe the FCC and IC certification concept for the variant LISA-U201 partly based on the test results of LISA-U200.



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2 Approach in regards to FCC and IC certification

Since some of the changes are related to the transmitter part, a new certification with new FCC ID and IC ID is required. But due to the kind of changes it can be assumed that there are only minor differences in the transmitter performance in comparison to LISA-U200. Accordingly the approach is to re-use some of the results of the previous certification.

The following tables give an overview about all applicable test cases and which of them were tested with XPYLISAU201 / 8595A-LISAU201 and which of them shall be re-used from XPYLISAU200 / 8595A-LISAU200:

A) Intentional Radiator Part

Test Case	GSM modes	UMTS modes
RF Power Output power	tested (1)	tested (1)
Spurious emissions at antenna terminals	tested (1)	tested (1)
Field strength of spurious radiation	re-used (2)	tested (1)
Emission and Occupied Bandwidth	re-used (2)	tested (1)
Band edge compliance	re-used (2)	tested (1)
Frequency Stability	re-used (2)	re-used (3)
Peak to Average Ratio	re-used (2)	re-used (3)
Conducted Emissions on AC Power line	re-used (2)	re-used (3)

- (1) Tested with new variant XPYLISAU201 / IC: 8595A-LISAU201 documented in 7Layers Test Report "MDE_UBLOX_1519_FCCa" (GSM & UMTS modes)
- (2) Re-used from XPYLISAU200 / IC: 8595A-LISAU200 documented in CETECOM Test Report "TR6-0082-11-1-2a" (GSM modes)
- (3) Re-used from XPYLISAU200 / IC: 8595A-LISAU200 documented in CETECOM Test Report "TR6-0082-11-1-2b" (UMTS modes)

B) Unintentional Radiator Part

Test Case	GSM modes	UMTS modes
Conducted emissions in AC power line (§15.107)	re-used (4)	re-used (4)
Spurious Radiated Emissions (§15.109)	re-used (4)	re-used (4)

(4) Tested with new variant XPYLISAU200 / IC: 8595A-LISAU200 documented in CETECOM Test Report "TR6-0082-11-1-2c"