

Limited Modular Approval Request

November 20, 2012
PTW-12-F006

UL Compliance Certification Services
Certification Division
471773 Benicia Street
Fremont, CA. 94538 USA

Re: Request for Limited Modular Approval
Bluetooth Module, Model NF2301
For Installation Within Car Radio, Model CQ-SM5559U

To Whom It May Concern:

(1) Have its own RF shielding:

This module transmitter does not have its own RF shielding. Instead, it gets installed within Panasonic controlled end-product car radio, which provides the required RF shielding.

(2) The module transmitter must have buffered modulation/data inputs:

The data input to this module transmitter has buffered modulation/data inputs so as not to allow generating excessive data speed and abnormal modulation.

(3) The module transmitter must have its own power supply regulation:

Panasonic controlled end-product car radio provides 12VDC to the module transmitter and its internal power supply regulator automatically adjusts it to 3.7 VDC operating power.

(4) The module transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c):

This equipment has a unique coupling antenna connector, and the installation is to be done at our authorized end-product car radio manufacturing facilities. Therefore, the equipment complies with the antenna requirement of section 15.203.

(5) Tested in a stand-alone configuration:

The module transmitter is installed within Panasonic controlled end-product car radio and the car radio was tested in stand alone test mode. The DC power lines and data input/output lines connected to the module do not contain any ferrite cores. The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. All peripherals used during the testing are unmodified and commercially available.

(6) The module transmitter must be labeled with its own FCC ID, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module:

The module transmitter itself contains FCC ID label; and as it will always be installed within Panasonic controlled end-product car radio, the car radio outer enclosure will have label which states:

Contains FCC ID: ACJ932CQ-SM5559U

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(7) The module transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements:

The installation of the Module Transmitter will be performed at our authorized end-product car radio manufacturing facilities and all necessary items of compliance are provided.

(8) The module transmitter must comply with any applicable RF exposure requirements:
The module transmitter complies with FCC radiation exposure requirement for mobile operation while installed only within Panasonic controlled car radio and its physical construction and installation guarantees minimum 20 cm spacing between antenna and user's body.

Thank you for your attention to this matter.

Sincerely,

Richard Mullen

Richard Mullen
Group Manager
Product Safety & Compliance Division