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July 3, 2018

Mr. Angelo Pallotta, P. Eng.
Project Manager,
Rohde & Schwarz Canada, Inc.
1 Hines Road, Suite 100
Kanata, ON,
K2K 3C7

RE: Request for special authorization of Quick Personnel Security Scanner R&S® QPS201

Dear Mr. Pallotta,

This letter is in response to your request to Innovation, Science and Economic Development Canada (ISED) for a special authorization (exemption) of the Quick Personnel Security Scanner model R&S® QPS201 manufactured by Rohde & Schwarz.

It is the understanding of the department that the Quick Personnel Security Scanners can be used for airport security checks, security at public events with a high threat potential and access control at security-related facilities. The scanner uses multistatic operation with thousands of transmitter and receiver antennas per panel and operates in the 70-80 GHz frequency range. The scanner transmits at a power of 1 mW with a data acquisition time of 32 ms per panel. Based on the description provided, the R&S® QPS201 scanning device falls under RSS-210 - [Licence-Exempt Radio Apparatus: Category I Equipment - Annex A](#) where permitted field strength limits for momentarily operated devices are specified in Table A1.

After reviewing the information provided by Rohde & Schwarz and Nemko Canada, ISED will accept the special authorization request by waiving the permissible field strength limits permitting certification of the Quick Personnel Security Scanners model R&S® QPS201 under RSS-210 (as per section 2.9 of RSS-GEN, *General Requirements for Compliance of Radio Apparatus*).

This equipment is classified as Category I license-exempt radio apparatus under the *Radiocommunication Act* and will require a technical acceptance certificate (TAC) in order to be manufactured, imported, distributed, sold, offered for sale or leased in Canada. Either the ISED Certification and Engineering Bureau (CEB) or a recognized Certification Body can issue such a certificate so long as the requirements stated in the Annex of this letter are met.

A copy of this letter, including its annex, shall be attached to the test report for certification of this equipment.



Should you have any questions, please do not hesitate to contact the department.

Sincerely,

David Willis for
Martin Proulx

Director General
Engineering, Planning and Standards Branch
Innovation, Science and Economic Development Canada

cc: Josette Gallant, Director, Regulatory Standards, ISED
Claude Beaudoin, Director, Certification and Engineering Bureau, ISED
Hughes Nappert, Manager, Regulatory Standards, ISED
Yan Losier, Manager, Regulatory Standards, ISED
Caroline Kennedy, Manager, Operational Policies, ISED
Nicolas Desmarais, Manager, Certification and Market Surveillance, ISED



Annex:

Requirements for certification of Quick Personnel Security Scanners product, model R&S®QPS201

The Quick Personnel Security Scanners model R&S® QPS201 equipment may be certified in accordance with the following requirements:

- a) The Quick Personnel Security Scanners model R&S® QPS201 shall conform to the provisions of the *Radiocommunication Act* and *Radiocommunication Regulations*.
- b) The Quick Personnel Security Scanners model R&S® QPS201 shall be certified under Radio Standard Specifications RSS-210, specifically under Annex A, "*Momentarily Operated and Remote Control Devices*", and shall operate as a licence-exempt low power device on a no-interference no-protection basis;
- c) The Radio Standards Procedures RSP-100 shall apply for the certification procedure and required labelling of each unit of the equipment model;
- d) The Quick Personnel Security Scanners model R&S® QPS201 shall comply with the requirements of RSS-Gen, for general administrative and technical requirements, and applicable limits for power line conducted emissions, as well as RSS-102, for RF exposure.
- e) The user manual shall contain the following text, or an equivalent notice, that shall be displayed in a conspicuous location, either in the user manual or on the device, or both:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following three conditions:

- 1. *This device may not cause interference.*
- 2. *This device must accept any interference, including interference that may cause undesired operation of the device.*
- 3. *This device shall be used indoor only.*

ISED grants a waiver for the requirements of RSS-210 Annex A.1.2, Table A1, "*Permissible Field Strength Limits for Momentarily Operated Devices*", with a limit not exceeding 31,405 $\mu\text{V/m}$ at 3 meters.

For the unwanted radiated emissions, the applicable limits are found in RSS-210, Annex A.1.2 b), for the frequency range up to 200 GHz.

ISED also grants a waiver for the requirement (in Sections 8.9 and 8.10 of RSS-Gen and in Annex A of RSS-210) that fundamental emissions are not permitted in the restricted bands listed in RSS-Gen.



The above waiver is only valid for the Quick Personnel Security Scanners model R&S® QPS201,
manufactured by Rohde & Schwarz.