

Rohde & Schwarz supports 3GPP Cellular V2X device testing for vehicle-to-vehicle connectivity

The R&S CMW500 wideband radio communication tester supports cellular vehicle-to-everything (C-V2X) signal testing, and was used to successfully test a pre-commercial Qualcomm® 9150 C-V2X chipset...

Columbia, MD, October 19, 2017 — Rohde & Schwarz, a leading supplier of test & measurement equipment, is enabling vehicles to move to the next level of autonomy by providing initial support for cellular vehicle-to-everything (C-V2X) signaling testing. Rohde & Schwarz and Qualcomm Technologies, a subsidiary of Qualcomm Incorporated, have collaborated by using the R&S CMW500 wideband radio communication tester with a pre-commercial Qualcomm® 9150 C-V2X chipset, which supports 3rd Generation Partnership Project (3GPP) Release 14 specifications for PC5 based direct communications. The 9150 C-V2X chipset is a product of Qualcomm Technologies and operates in bands 46D and 47 for 5.8/5.9GHz ITS spectrum.

Utilizing direct communications, C-V2X allows vehicles to communicate directly with each other (V2V), pedestrians (V2P), and roadway infrastructure (V2I) without the need of cellular subscription or network assistance. C-V2X also encompasses network-based communications utilizing wireless operators' 4G and emerging 5G wireless networks to support vehicle-to-network (V2N) communications on the Uu interface, enabling vehicles to communicate to the cloud.

"Thanks to our collaborative efforts, we were able to test and verify our C-V2X reference implementation of 3GPP Release 14 PC-5 based vehicle peer-to-peer communications between LTE user equipment," said Anton Messmer, VP Mobile Radio Testers. "We are delighted to be working together with Qualcomm to accelerate the commercialization of C-V2X and help automotive players to adopt the latest 3GPP technologies for their products."

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Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in all fields of wireless communications as well as in IT security. Founded more than 80 years ago, the independent company has an extensive sales and service network with subsidiaries and representatives in more than 70 countries. On June 30, 2016, Rohde & Schwarz had approximately 10,000 employees. The group achieved a net revenue of approximately EUR 1.92 billion in the 2015/2016 fiscal year (July to June). The company is headquartered in Munich, Germany, and also has strong regional hubs in Asia and the USA.

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