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Radiall and NPL Forge Strategic Partnership to Advance Cryogenic RF Technologies and Measurement Science for the Quantum Era

March 2026 — As quantum computing moves rapidly toward real-world deployment, demand is growing for next-generation cryogenic RF device technologies capable of maintaining exceptional signal fidelity and stability at extremely low (i.e., millikelvin) temperatures. Achieving this level of performance requires not only innovative hardware but also state-of-the-art cryogenic RF characterisation capabilities that provide rigorous, traceable measurements under true operating conditions. These tools are essential for reducing uncertainty in quantum system design, accelerating device optimisation and ensuring reliable, scalable and commercially viable quantum platforms. Progress in both component innovation and metrological science is therefore fundamental to unlocking the next major advances in quantum technology.

The UK's National Physical Laboratory (NPL), the nation's home of measurement science, and Radiall, a global leader in high-performance interconnect solutions, are pleased to announce an expanded collaboration aimed at driving forward cryogenic RF technologies and measurement capabilities essential for emerging quantum applications. In recent months, NPL has supported Radiall through specialised cryogenic S-parameter measurements for passive RF components, enabling the development and validation of advanced RF hardware (i.e., components, etc) designed for integration into cryogenic and quantum computing systems.

Building on this successful technical partnership, NPL and Radiall will continue their work together through the upcoming European-funded project "Cryogenic RF measurements for quantum and semiconductor technologies (CryoRF)", which will establish robust European metrology frameworks for the characterisation of RF components at cryogenic temperatures. Beginning in June 2026, CryoRF brings together leading European partners under NPL's leadership to develop a world-class, sustainable and integrated infrastructure for cryogenic RF metrology.

Prof. Nick Ridler, NPL Fellow and Head of Science for electromagnetic and electrochemical technologies at NPL, said:

"This partnership has demonstrated how NPL's state-of-the-art cryogenic RF measurement capabilities can deliver real impact for industry."

Dr. Manoj Stanley, Senior Scientist at NPL, added:

"Drawing on our extensive expertise in cryogenic S-parameter measurements, we characterised the performance of Radiall's devices and assessed their behaviour at temperatures down to the millikelvin regime. This collaboration highlights the critical role of advanced cryogenic RF metrology in supporting the RF, quantum and semiconductor industries."

Dr. Laurent Petit, Advanced Project Manager, Fellow Microwave Expert at Radiall, concluded:

"This partnership strengthens the European supply chain for quantum technologies by uniting Radiall's leadership in advanced RF components with NPL's recognised excellence in cryogenic RF metrology. By rigorously validating our interconnect solutions at millikelvin temperatures, we are providing the quantum industry with the reliable, highly scalable hardware necessary to accelerate the transition from laboratory research to commercially viable quantum computers."

For more information on Radiall's customized quantum solutions, please contact a Radiall sales representative or visit www.radiall.com.

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