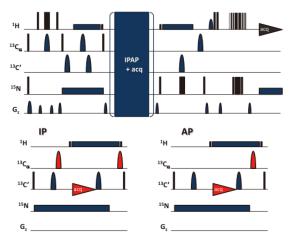


JNM-ECZR NMR Spectrometer Multiple Receiver Capabilities

Related information: Nuclear Magnetic Resonance instrument (NM)

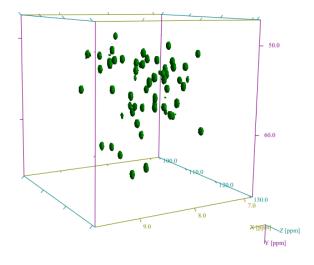


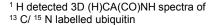
JNM-ECZR is equipped with one receiver per 2 RF transmitter module. Multiple receiver functionality is included with the addition of optional RF transmitter receiver modules.

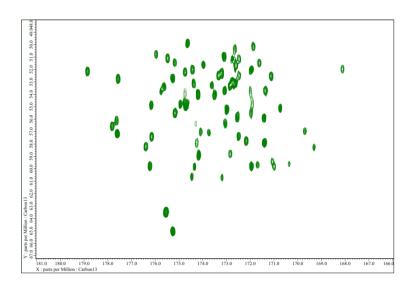
JNM-ECZR allows users to easily collect data with multiple receivers. Pulse sequences can easily be adapted with the addition of a few lines of code to collect multiple receiver data without the need to move any cables or modules.

The diagram (left) shows an example of multiple receivers for the parallel collection of 3D (H)CA(CO)NH ¹H detected and 2D (H)CACO ¹³C detected multi-dimensional data sets in a single experiment.

Pulse sequence for parallel 2D (H)CACO/3D (H)CA(CO)NH experiment * 1.







¹³ C detected 2D (H)CACO spectra of ¹³ C/ ¹⁵ N labelled ubiquitin acquired in parallel with 3D (H)CA(CO)NH spectra

Spectrometer:JNM-ECZ900R

Sample :1mM 13 C/ 15 N labelled ubiquitin in 90%H $_2$ O/10%D $_2$ O 1 H detected 3D (H)CA(CO)NH spectra of 13 C/ 15 N labelled ubiquitin *1 Kupce E, Kay L E, Freeman R (2010) J. Am. Chem. Soc 132: 18008-18011

Copyright © 2017 JEOL Ltd.

Certain products in this brochure are controlled under the "Foreign Exchange and Foreign Trade Law" of Japan in compliance with international security export control. JEOL Ltd. must provide the Japanese Government with "End-user's Statement of Assurance" and "End-use Certificate" in order to obtain the export license needed for export from Japan. If the product to be exported is in this category, the end user will be asked to fill in these certificate forms.



3-1-2 Musashino Akishima Tokyo 196-8558 Japan Sales Division Tel. +81-3-6262-3560 Fax. +81-3-6262-3577 www.jeol.com ISO 9001 • ISO 14001 Certified