

Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RB-QD04-0001

PI: Motoo ITO

Type and date of analysis performed:

H, C and N isotope analysis by NanoSIMS ion imaging (2012-2013).

Elements or phases identified: (Mg, Si, olivine, pyroxene, aromatic carbon, etc.)

This sample shows terrestrial isotopic ratios of H, C and N within analytical errors.

Contaminant phases identified: (Al, SUS, carbon particles, etc.)

N/A

Sample handling:

Pressed on Au plate (3mm diameter and 0.3mm thick) by Sapphire glass at JAXA curation facility.

State of sample pre-analysis:

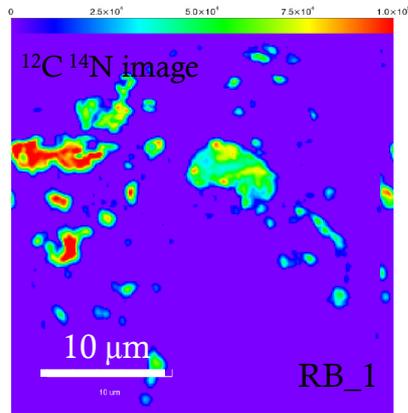
On Au plate together with terrestrial organic isotopic standards (BBOT, 1-Hydroxybenzotriazole hydrate)

State of sample post-analysis:

Partially damaged by Cs ion beam during NanoSIMS analysis

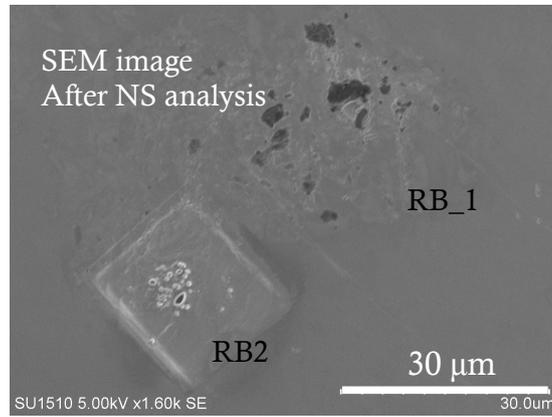
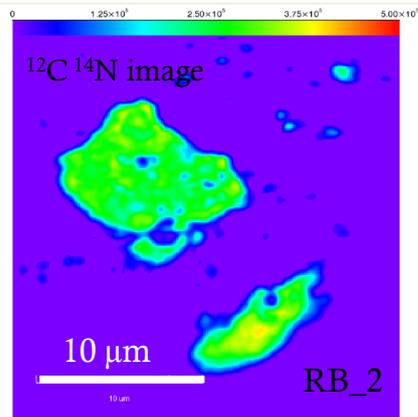
Analysis data Notes: (summary of the attached analysis data and/or images)

Analytical conditions are described in Ito et al. (2004) *Earth, Planets and Space* 2014, **66**:91



RB-QD04-0001

	$\delta^{13}\text{C}$ (per mil)	$\delta^{15}\text{N}$ (per mil)	δD (per mil)
RB_1	-27 +/- 9	18 +/- 2	NA
RB_2	-18 +/- 9	16 +/- 2	135 +/- 32



H and C isotope diagram for Category 3 samples

