

Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RB-QD04-0025

PI: H. Yurimoto

Type and date of analysis performed:

SIMS analysis of oxygen and magnesium isotopes, Dec 17, 2011

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

Oxygen isotopes

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

None

Sample handling: (e.g. exposed in atmosphere, embedded in resin, polished, sliced by FIB or UMT)

exposed in atmosphere, Au sputter coating ~100nm

State of sample pre-analysis: (e.g. N2 hold, atmosphere, resin embedded, polished section, UTS) (please describe treatments and/or modifications for the sample you have done before your analysis)

exposed in atmosphere, Au sputter coating ~100nm

State of sample post-analysis:

(N2 hold in sample holder, atmosphere, resin embedded, polished section, UTS)

(partially damaged by electron beam, spotted by Ga beam, neutron activation)

(consumed by laser ablation)

(unexpected breakup, into # pieces)

(Lost : reason)

N2 hold in sample holder, partly consumed by Cs beam sputtering, Au coated.

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

O isotope data (‰) of low Ca pyroxene.

$\delta^{17}\text{O}_{\text{SMOW}}$	$\delta^{18}\text{O}_{\text{SMOW}}$	$\Delta^{17}\text{O}$	Remarks
3.66	5.44	0.83	