Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0062

PI: Akira Tsuchiyama

Type and date of analysis performed:

Tomography Jan/25/2011 (7 keV)

Jan/24/2011 (8 keV)

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

Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	66.3	33.7	-	-	-	-	-	-	-

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

N/A

Sample handling:

Exposed in atmosphere.

State of sample pre-analysis:

Attached to carbon fiber with resin.

State of sample post-analysis:

N_2 hold in sample holder.

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

See attached sheets.

RA-QD02-0062

Operation Date Jan/25/2011 (7 keV)
Jan/24/2011 (8 keV)
operated by Y. Ogami(7 keV)
T. Matsumoto (8 keV)
analyzed by A. Shimada

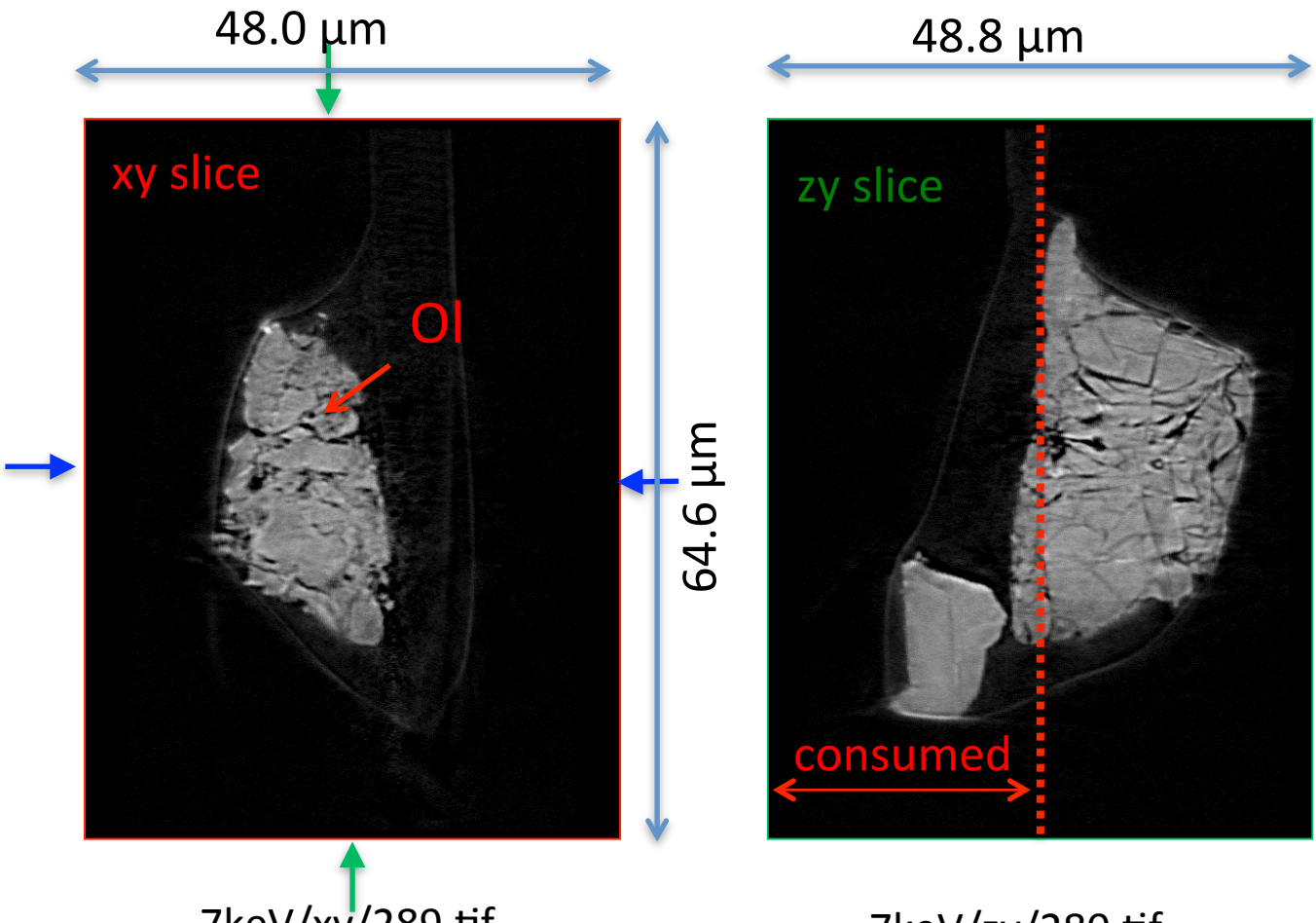
Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	66.3	33.7	-	-	-	-	-	-	-

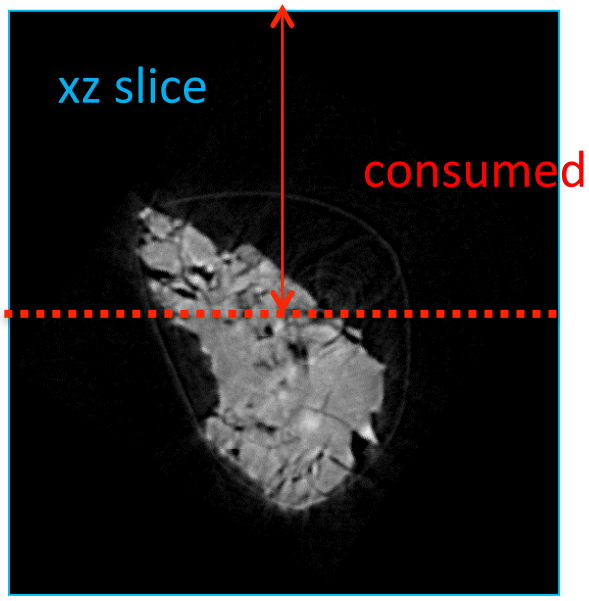
A (μm)	B (μm)	C (μm)	V (μm^3)	Porosity (%)
7.82	15.1	17.8	6739	9.29

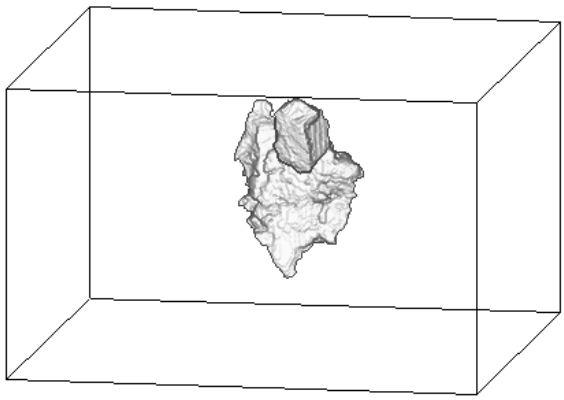
Ol: olivine
LPx: low calcium pyroxene
HPx: high calcium pyroxene
Pl: plagioclase
Tr: troilite
Tae: taenite
Chm: chromite
CP: calcium phosphate
Kam: kamacite

A, B, and C: shortest, middle, and longest axial radii, respectively, of a best-fit ellipsoid for the particle
V: particle volume without pore
dz: CT image interval
LAC: linear attenuation coefficient of X-ray

RA-QD02-0062 7 keV

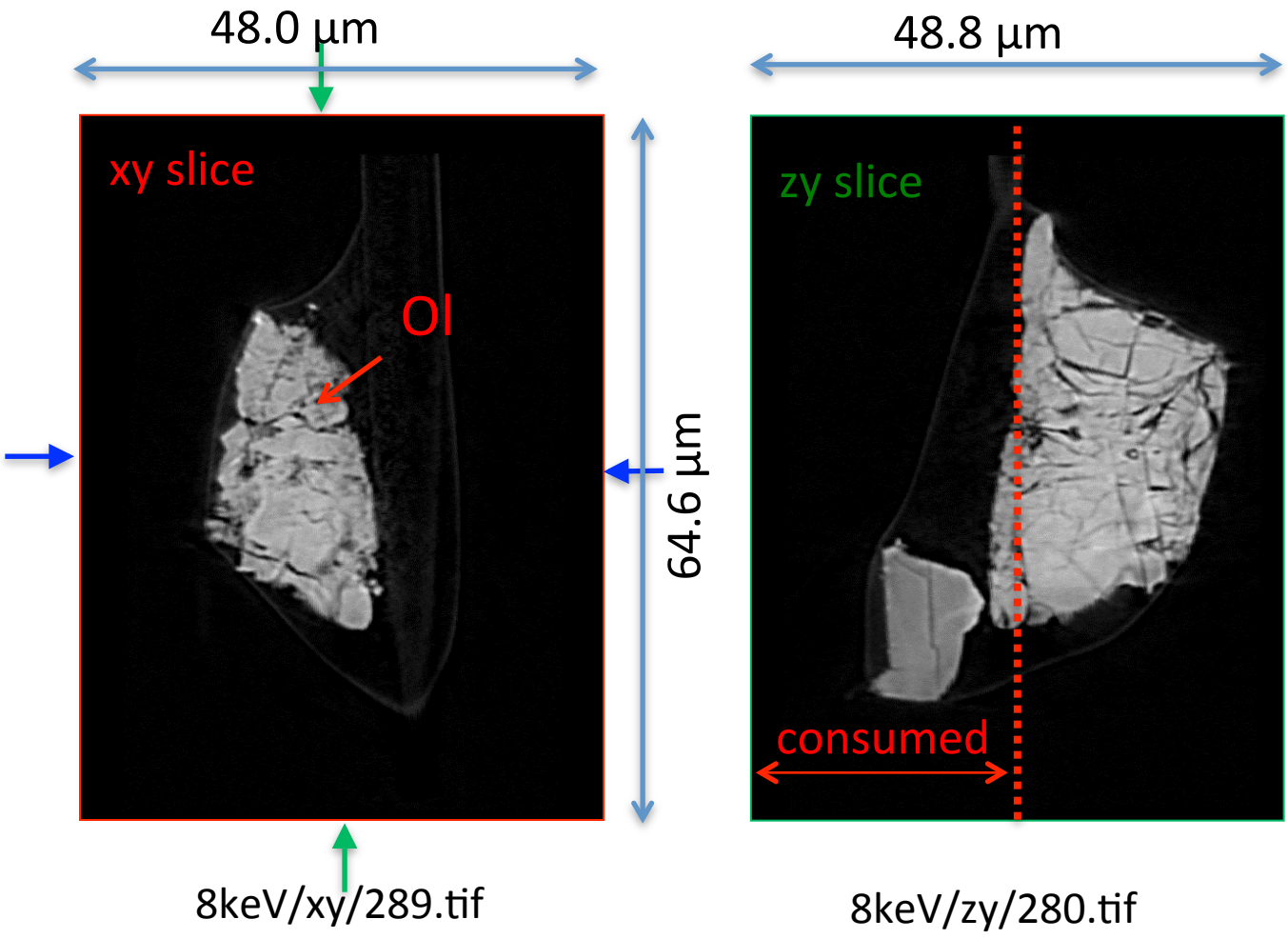


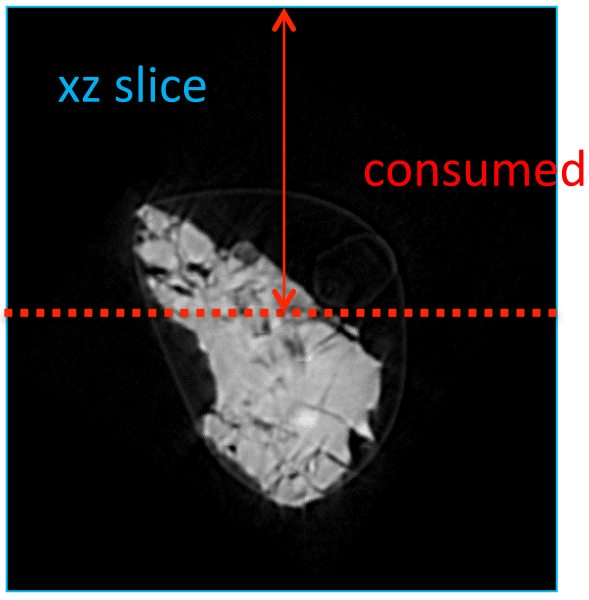




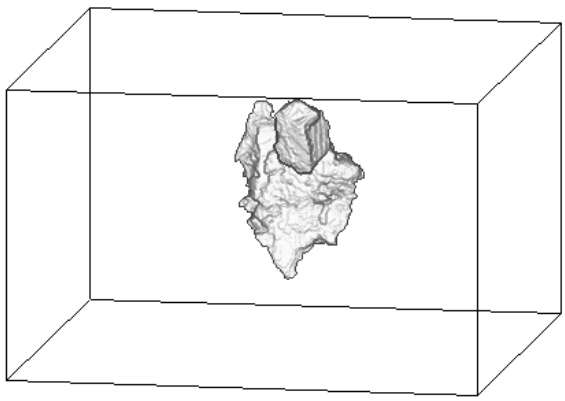
7keV/xz/377.tif

RA-QD02-0062 8 keV

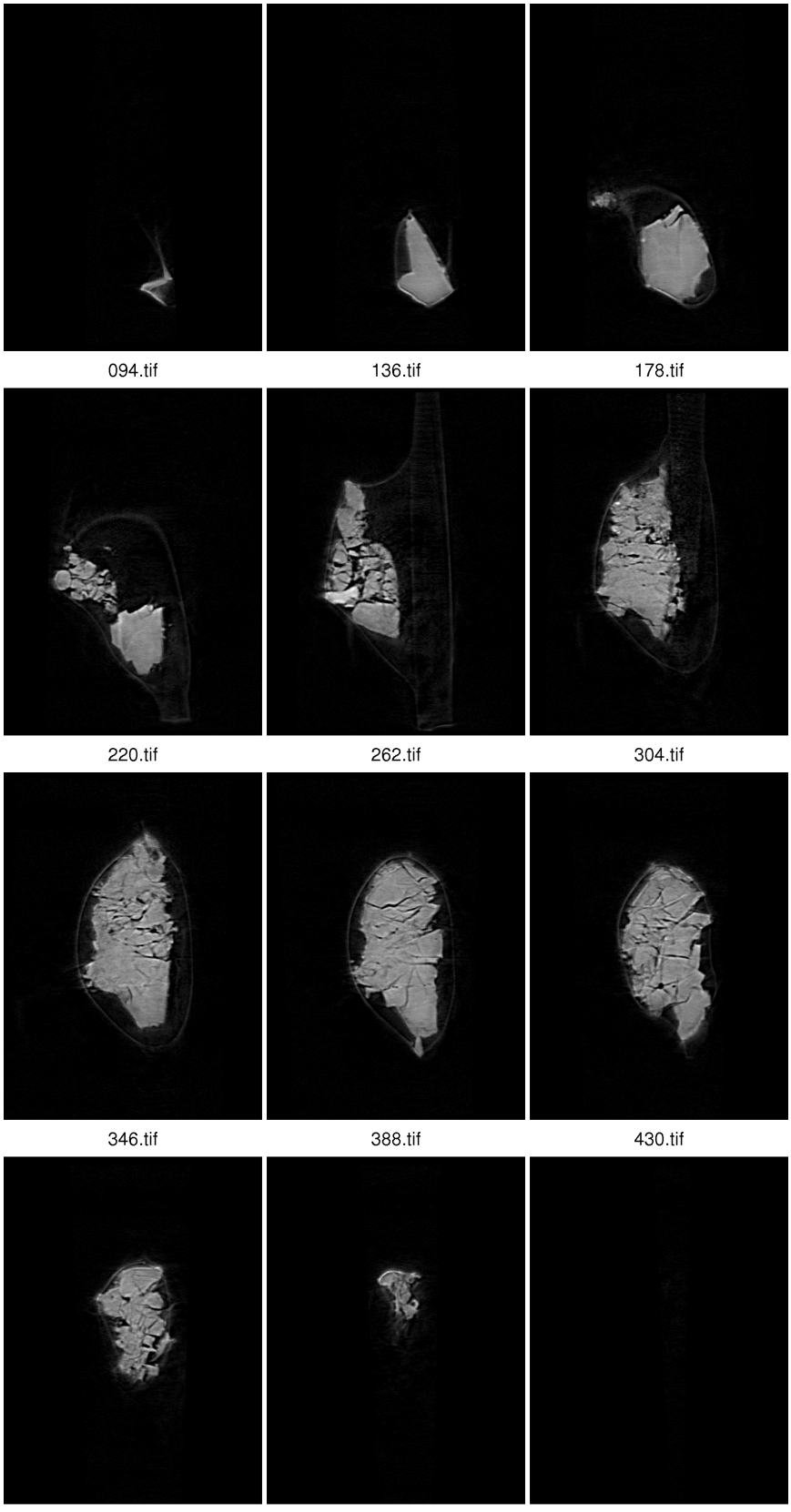




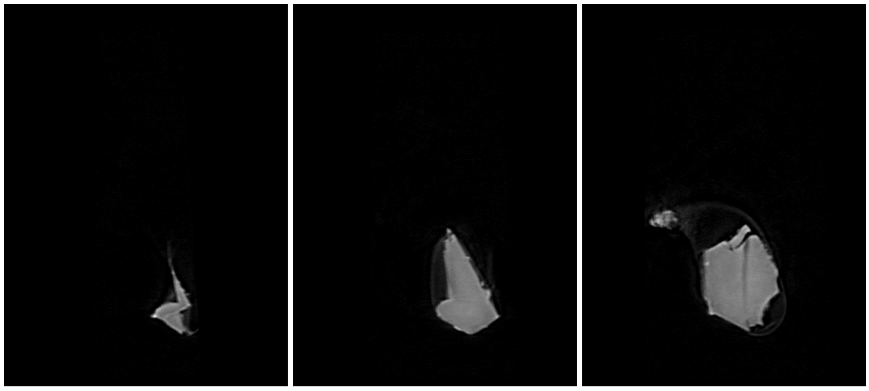
8keV/xz/377.tif



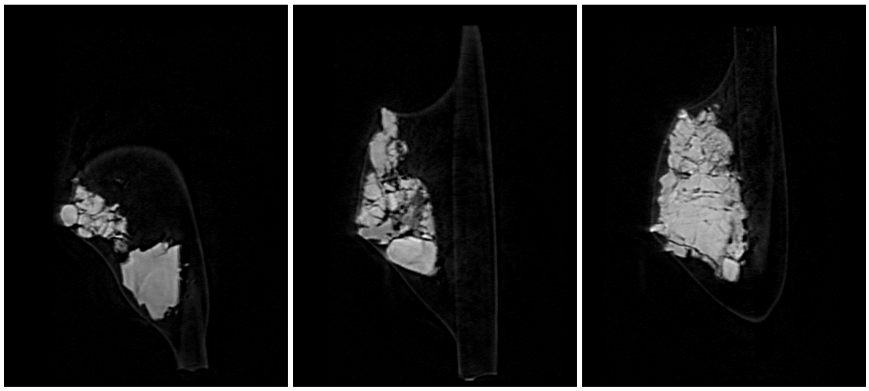
RA-QD02-0062 7 keV catalogue



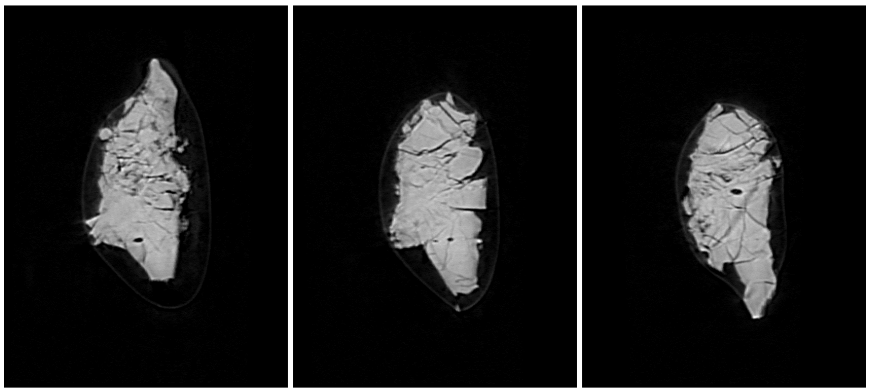
RA-QD02-0062 8 keV catalogue



102.tif 141.tif 180.tif



219.tif 258.tif 297.tif



336.tif 375.tif 414.tif

453.tif 492.tif 531.tif

dZ = 3.34113 um

10 um

431 cm-1 (LAC)

RA-QD02-0062 Dual energy histogram