

## Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

**Sample ID:** RA-QD02-0027

**PI:** Akira Tsuchiyama

**Type and date of analysis performed:**

Tomography      Jan/22/2011 (7 keV)

                    Jan/24/2011 (8 keV)

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

Mode	OI	LPx	HPx	PI	Tr	Tae	Chm	CP	Kam
Vol %	-	14.98	-	14.0	63.1	-	-	-	-

**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<sub>2</sub> hold in sample holder.

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

See attached sheets.

# RA-QD02-0027

Operation Date    Jan/22/2011 (7 keV)  
                      Jan/24/2011 (8 keV)  
operated by        T. Matsumoto (7 keV)  
                      T. Matsumoto (8 keV)  
analyzed by        J. Matsuno

Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	-	14.98	-	14.0	63.1	-	-	-	-

A (μm)	B (μm)	C (μm)	V (μm <sup>3</sup> )	Porosity (%)
20.7	28.0	41.5	88316	3.46

Ol: olivine

LPx: low calcium pyroxene

HPx: high calcium pyroxene

Pl: plagioclase

Tr: troilite

Tae: taenite

Chm: chromite

CP: calcium phosphate

Kam: kamacite

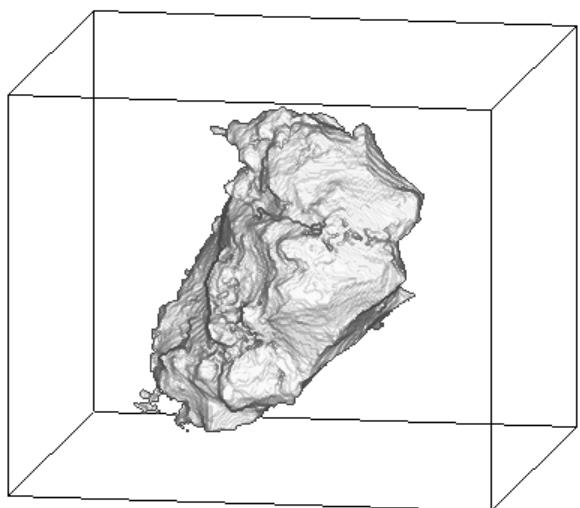
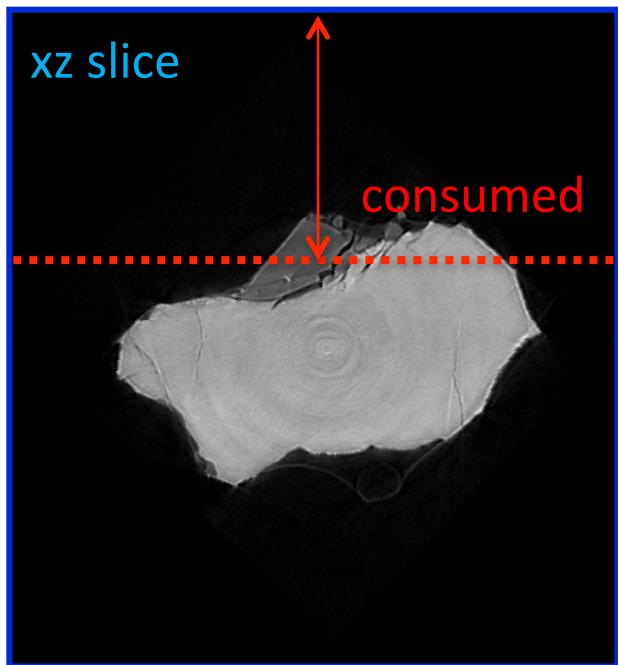
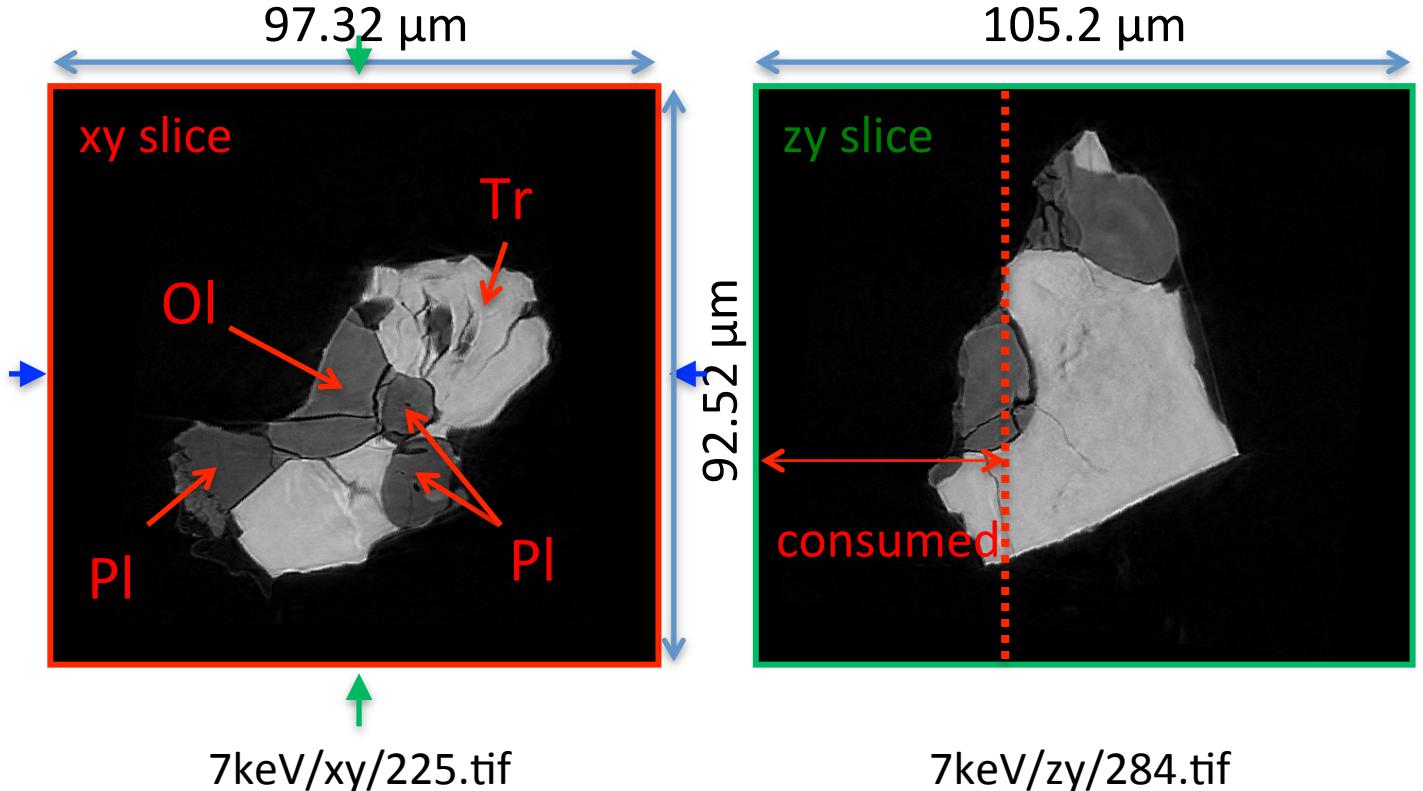
A, B, and C: shortest, middle, and longest axial radii, respectively,  
of a best-fit ellipsoid for the particle

V: particle volume without pore

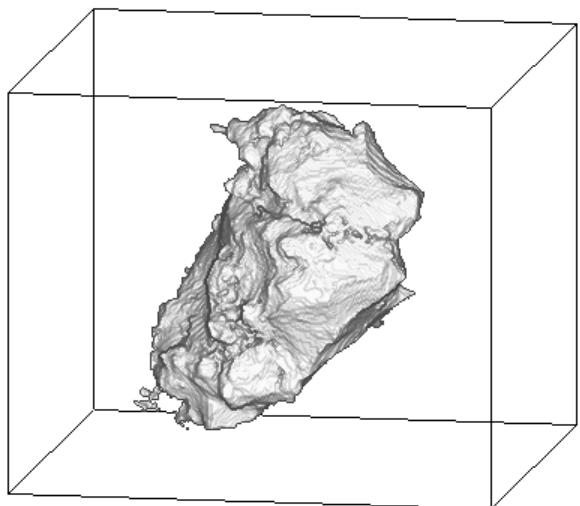
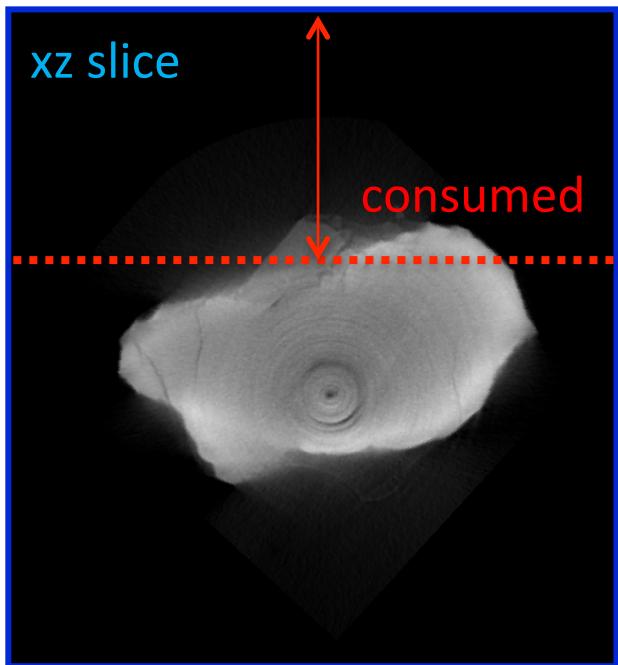
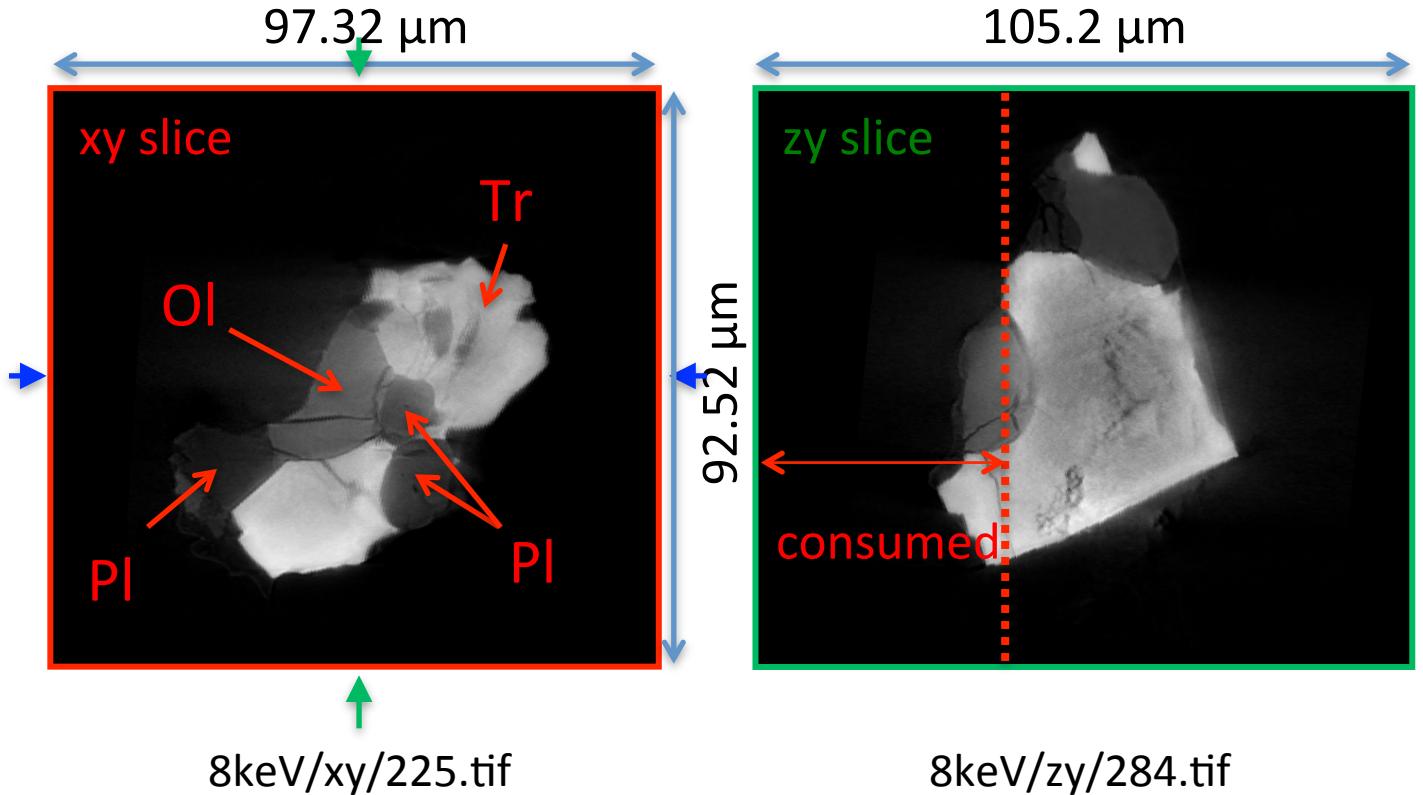
dz: CT image interval

LAC: linear attenuation coefficient of X-ray

# RA-QD02-0027 7 keV

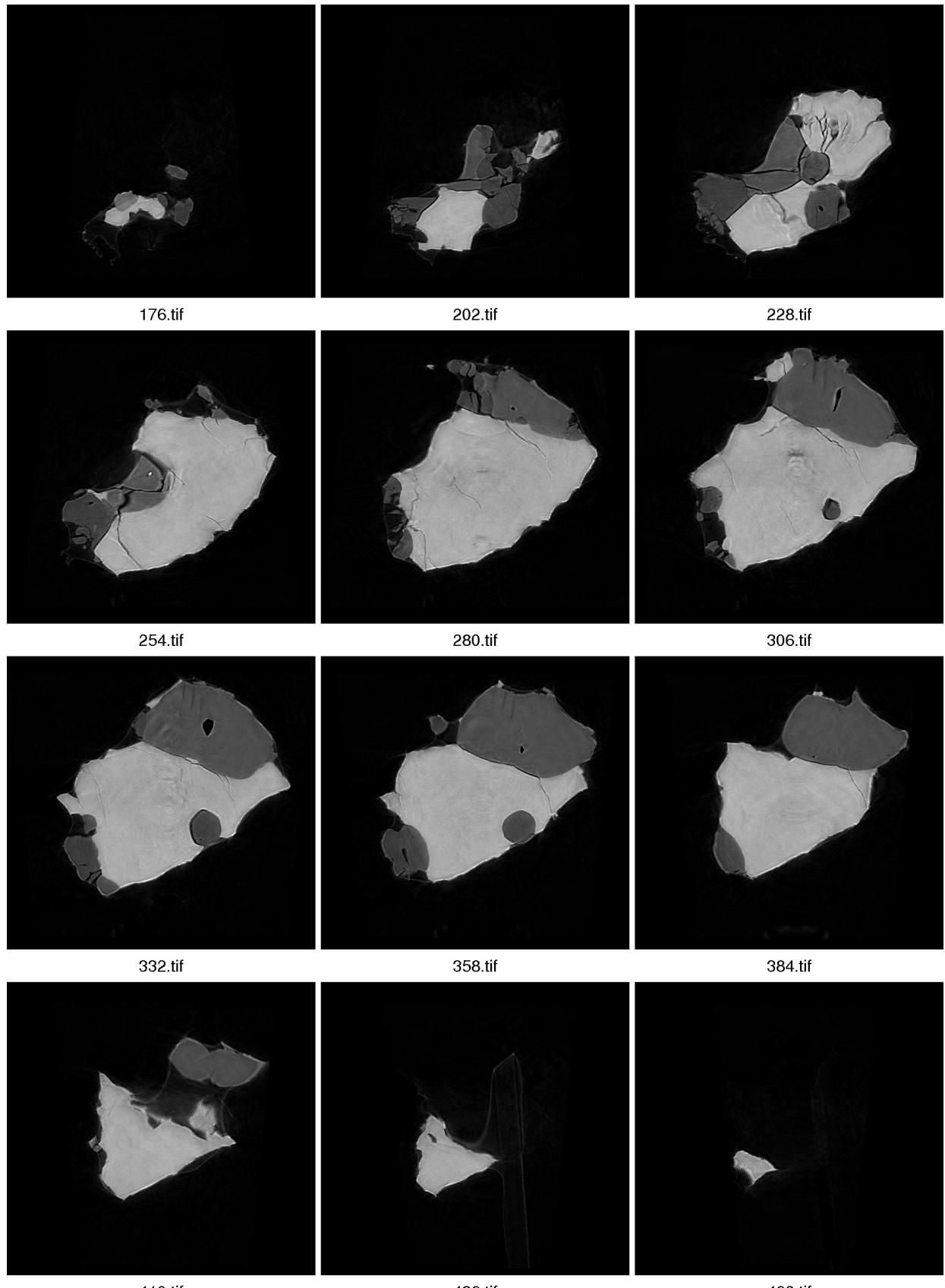


# RA-QD02-0027 8 keV



8keV/xz/207.tif

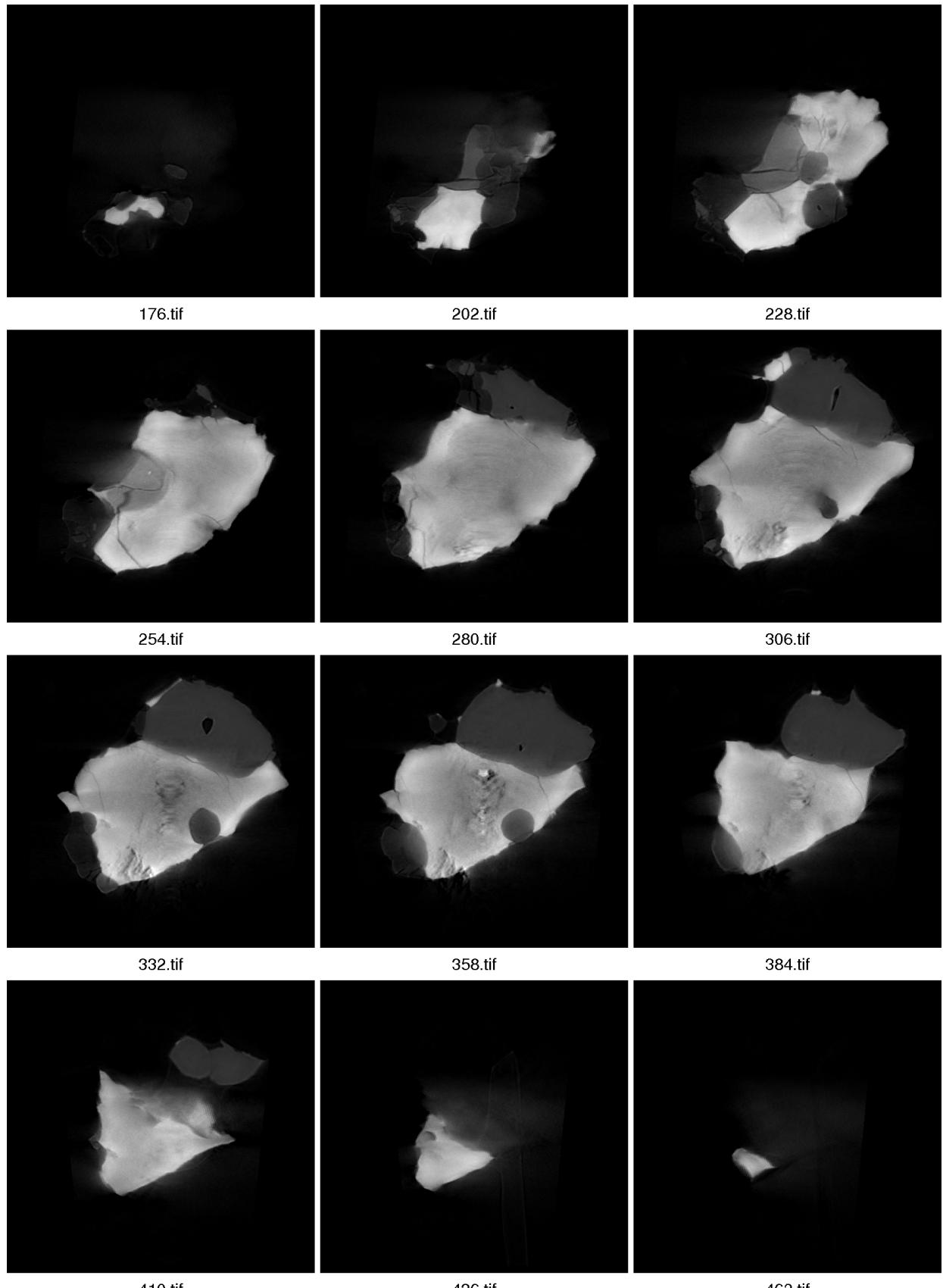
# RA-QD02-0027 7 keV catalogue



$dZ = 4.45484 \text{ } \mu\text{m}$

21  $\mu\text{m}$   
 575  $\text{cm}^{-1}$  (LAC)

# RA-QD02-0027 8 keV catalogue



$dZ = 4.45484 \text{ } \mu\text{m}$

21  $\mu\text{m}$   
 1150  $\text{cm}^{-1}$  (LAC)

## RA-QD02-0027 Dual energy histogram

