

Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0041

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 %	83		3.74	13.3					

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:

N₂ hold in sample holder.

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

See attached sheets.

RA-QD02-0041

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

Mode	Ol	LPx	HPx	Pl	Tr	Tae	Chm	CP	Kam
Vol %	83		3.74	13.3					

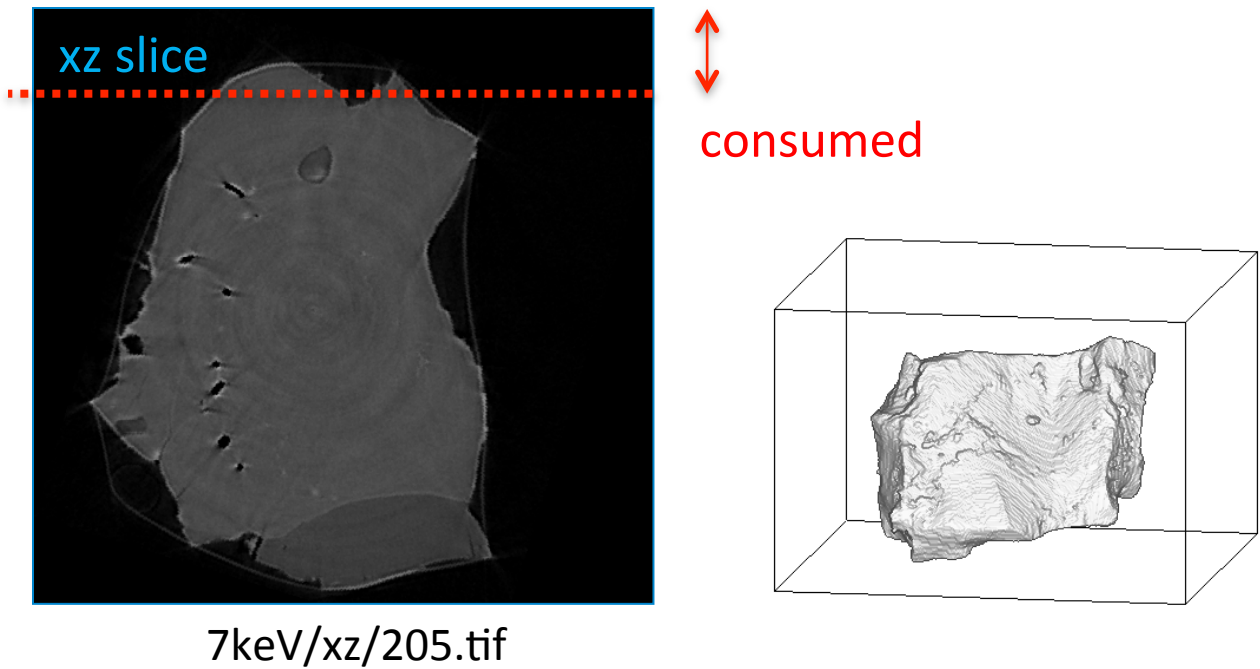
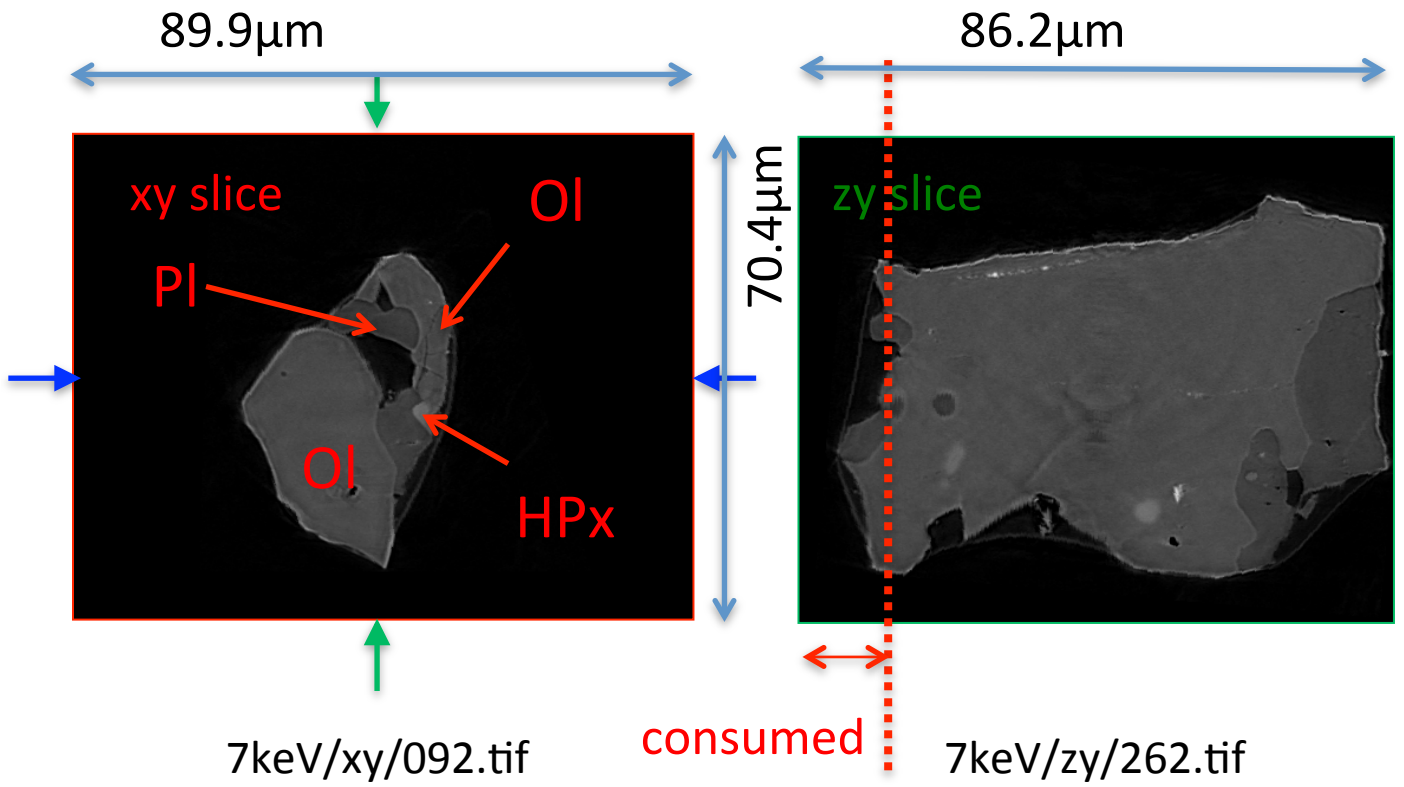
A (μm)	B (μm)	C (μm)	V (μm^3)	Porosity (%)
23.6	31.5	44.3	116905	2.76

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

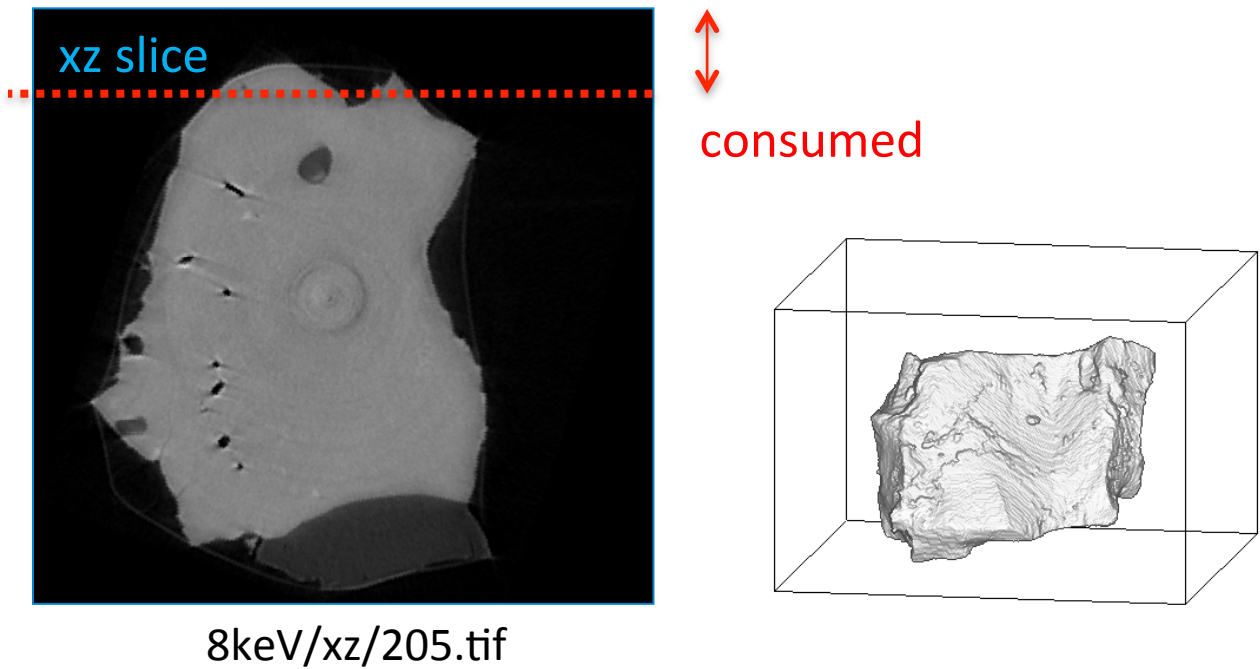
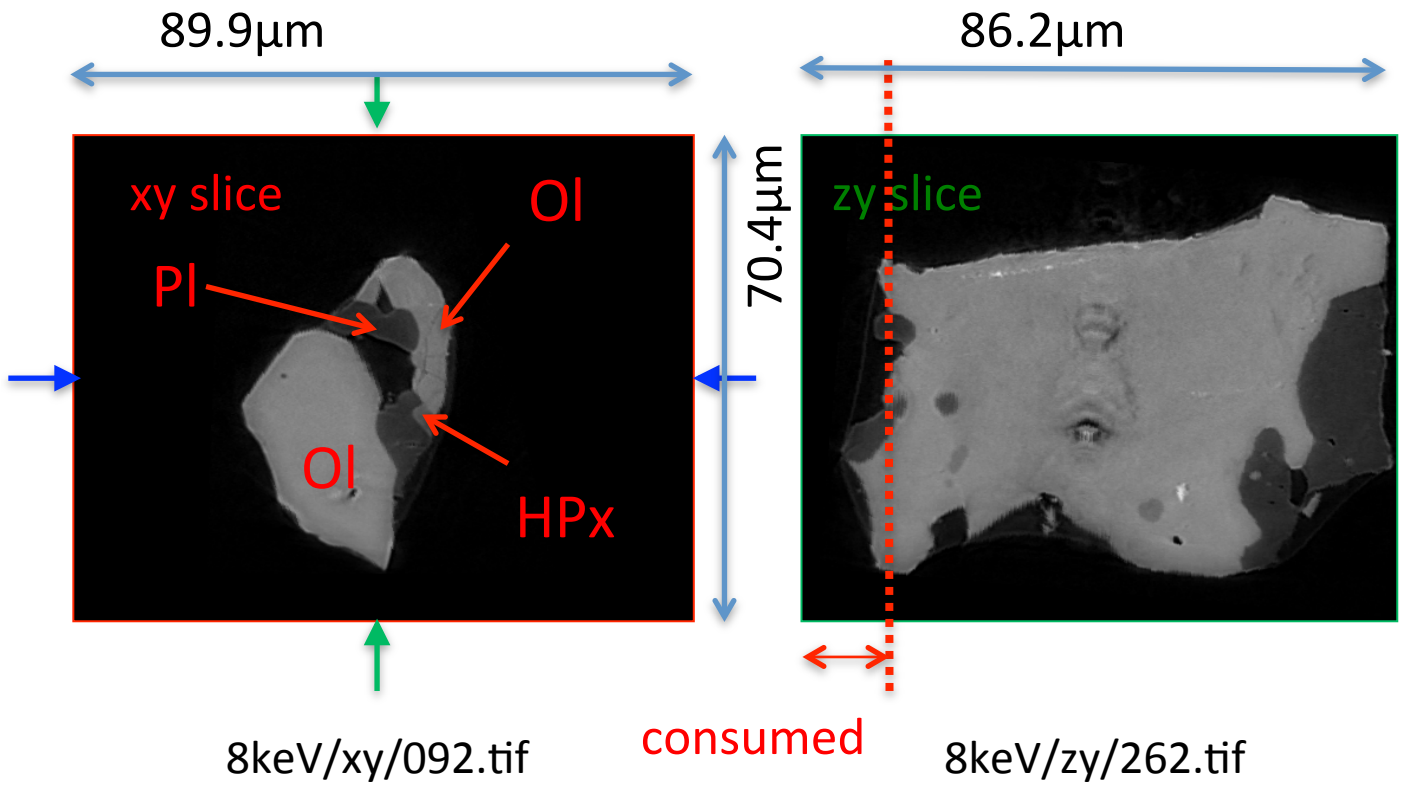
A, B, and C: shortest, middle, and longest axial radii, respectively,
of a best-fit ellipsoid for the particle

V: particle volume without pore
dz: CT image interval
LAC: linear attenuation coefficient of X-ray

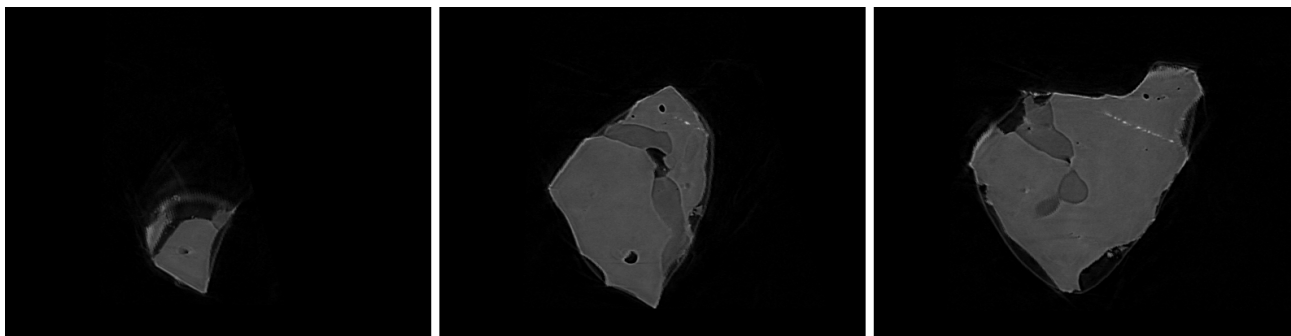
RA-QD02-0041 7keV



RA-QD02-0041 8keV



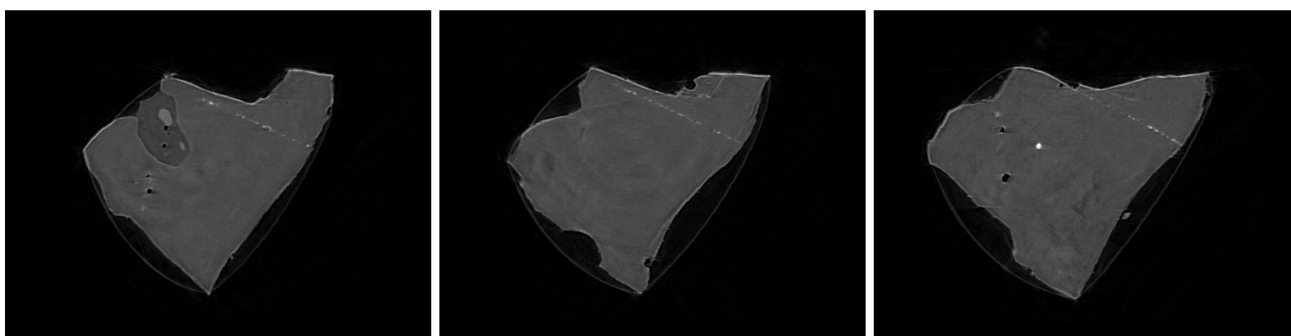
RA-QD02-0041 7keV catalogue



064.tif

104.tif

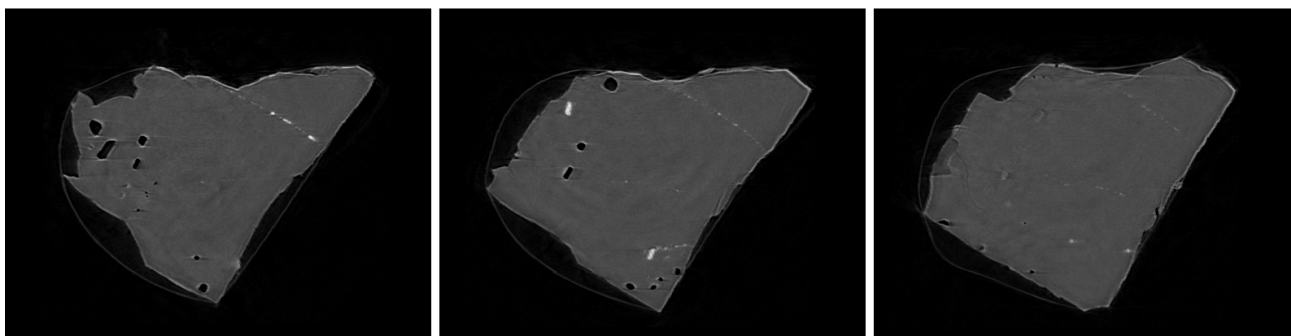
144.tif



184.tif

224.tif

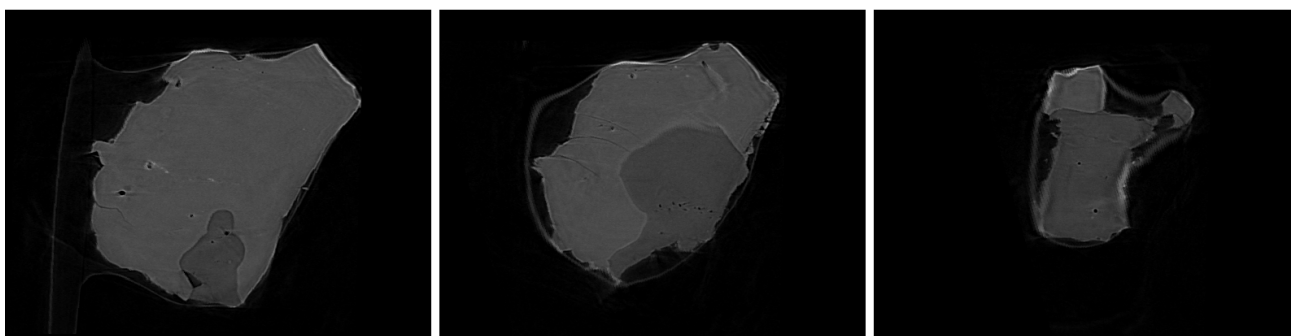
264.tif



304.tif

344.tif

384.tif



424.tif

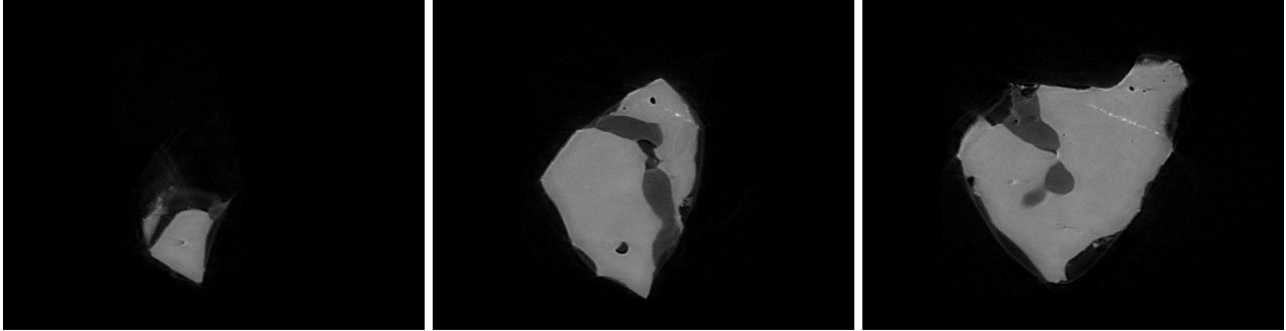
464.tif

504.tif

dZ = 6.85360 um



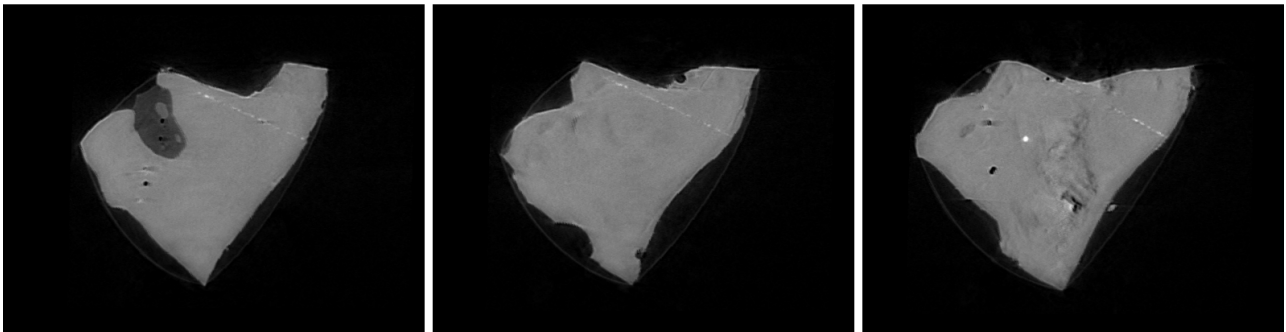
RA-QD02-0041 8keV catalogue



064.tif

104.tif

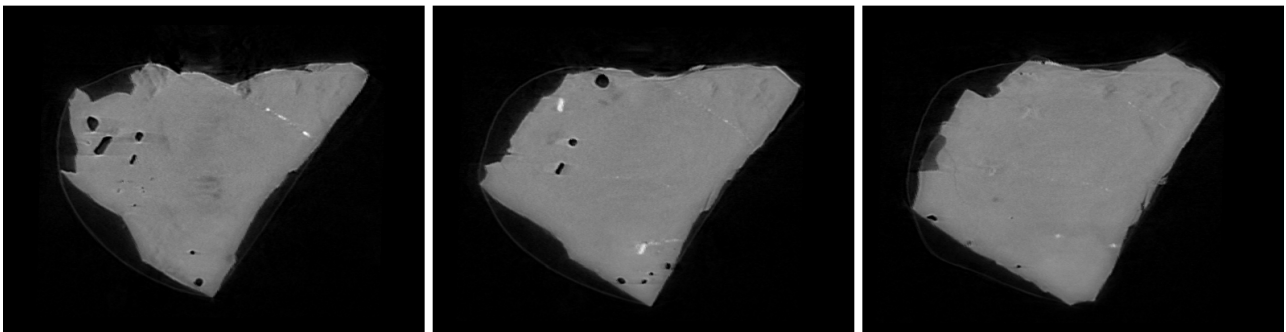
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184.tif

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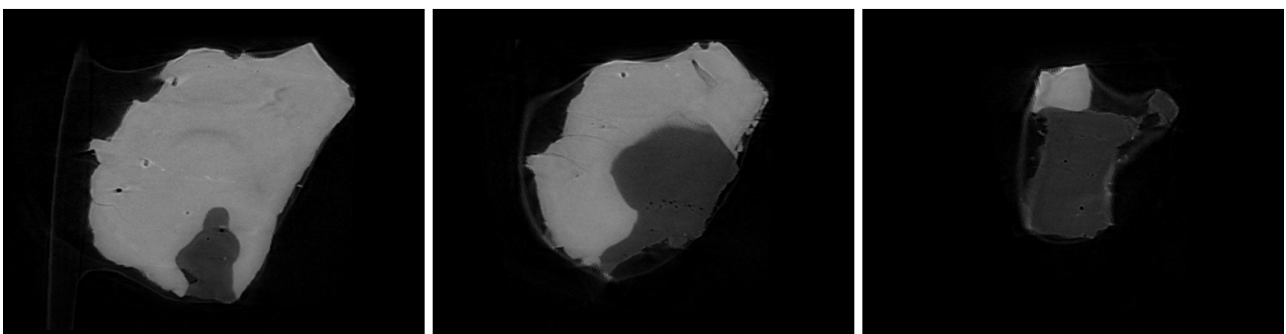
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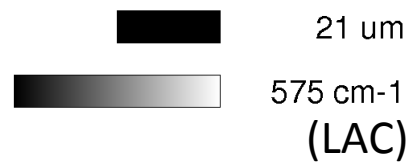


424.tif

464.tif

504.tif

dZ = 6.85360 um



RA-QD02-0041 Dual energy histogram

