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A synchrotron radiation, HRTEM, X-ray powder diffraction, and Raman spectroscopic study of malayaite, CaSnSiO_5

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For deposit: Tables 4 through 6

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TABLE 4. Detailed data collection and processing information for malayaite (for deposit)

Wavelength (Å)/ monochromator	0.5597(1)/Si (1 1 1); flat double crystal
Harmonic suppression	$I_o(\lambda/3)/I_o(\lambda) < 10^{-3}$ [Si(1 1 1)]
Detector aperture (mm)	4 × 4
Detector to sample distance (mm)	320
Crystal size (mm)	0.19 × 0.11 × 0.06
Temperature (K)	295
Scan mode	ω (continuous)
Number of steps	61
Step size (°)	0.004
Scan speed (°/s)	0.004 to 0.04
$(\sin \theta/\lambda)_{max}$ (Å ⁻¹)	0.947
Test reflections	4 10 4, 6 $\bar{3}$ $\bar{7}$
Interval	30 minutes, after injections
Reflections collected	4017
Unique data (2/m)	1384
Unobserved reflections ($ F_o < 3\sigma$)	13
μ (AgK α ; mm ⁻¹)	3.843
Transmission range	0.57 to 0.77
R_{int} (I)	0.029
$R_{int,w}$ (I)	0.033