

Run 1			
Static Data			
Size of cold stage:	51 mm		
Height of cold stage:	8 mm		
vacuum pressure (set)	50 Pa		
Z/TILT (distance of detector from stage)	5um		
vacuum current	12kv		
probe current		85	
Additional Comments			
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Kinetic Data			
Time	Action/observation	Temperature (actual)	Crystal Size
12:33	truned on pressure		
12:41	took image (20200731NewCopperStub)	26.2	
12:45	took Spectral imaging (for baseline) (20200731NewCopper)	24.5	
12:44	hit 50 Pa (pressure)	24.2	
12:48	No or very little S or K seem to be present (this is good)		
12:51	set temp to -34	~24	
12:53	pressure is staying at 50 Pa	-21	
12:55	Ice crystals observed (with no polycrystalline structure)	-34.6	
12:58	took image (20200731NewCopperPureIce02)	-34.7	
12:59	set temp to -33	-34.8	
1:00	set to -32	~ -33.6	
1:01	took 3D image (case 1.0)	-32.8	
1:03	crystal still growing	-32.7	
1:05	took 3D iamge (case 2.0)	-32.7	
1:08	took 3D image (case 2.1) of growth roughening at bottom	-32.7	
1:11	took 3D image (case2.2)	-32.7	
1:14	took 3D image (case2.3) of top growth roughening (some white ridge?)	-32.7	
1:19	took 3D image (case2.4) **crystal is slowly still growing**	-32.7	
1:21	set temp to -31	-32.7	
1:23	took 3D image (case2.5)	-31.7	
1:25	took 3D analysis (case1.6)	-31.7	
	taking images as it ablates (white spots are present so trying to replicate other experiment)		
1:49	took Spectral imaging (20200731NewCopper02)		
1:56	took Point and Shoot (20200731NewCopper03)	-31.7	
2:08	took Spectral imaging (20200731NewCopper04)	-31.8	
2:14	took Spectral imaging (20200731NewCopper05)	-31.8	
2:27	took Spectral imaging (20200731NewCopper06)	-31.8	
2:38	took Point and Shoot (20200731NewCopper07)	-31.8	
2:49	took Spectral imaging (20200731NewCopper07)	-31.8	