Run 1 (did a non-ice crystal K2SO4 run)								
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								
Additional Comments								
Kinetic Data								
Time	Action/observation	Temperature (actual)	Crystal Size					
1:43	pressurizing chamber	25.9						
11:50	pressure at 50 pa							
11:53	took Spectral imaging of crystals (20200722PureK2SO4T0)	22.4						
11:59	set temp to -34							
12:04	took Spectral imaging of crystals (20200722PureK2SO4T1)	-34.8						
12:10	finished spectral image	-34.8						
waiting		-34.8						
1:15	took Spectral imaging of crystals (20200722PureK2SO4T2)	-34.8						
12:25	took Spectral imaging of crystals (20200722PureK2SO4T3)	-34.8						
12:35	took Spectral imaging of crystals (20200722PureK2SO4T4)	-34.8						
12:45	took Spectral imaging of crystals (20200722PureK2SO4T5)	-34.8						
12:55	took Spectral imaging of crystals (20200722PureK2SO4T6)	-34.8						
12:50	set temp to -30							
1:05	took Spectral imaging of crystals (20200722PureK2SO4T7)	-30.8						
1:15	took Spectral imaging of crystals (20200722PureK2SO4T8)	-30.8						
1:25	took Spectral imaging of crystals (20200722PureK2SO4T9)	-30.8						
1:35	took Spectral imaging of crystals (20200722PureK2SO4T10)	-30.8						
1:41	experment ended							
Run 1 (Ice crystal with K2SO4 run)								
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	copper was cleaned between the two runs to make sure a "fresh" "non-contaminated" batch of K2SO4 was used							
Additional Comments								
Kinetic Data								
Time	Action/observation	Temperature (actual)	Crystal Size					
2:08	pressurized chamber	26.5						
2:10	pressure at 120							
2:12	took "pre" Spectral imaging of crystals (20200722IceK2SO4U01)	26.5						
2:18	set temp to -34 (pressure is at 60 Pa)							
took 2 pictures		-34.2						
2:22	set to -33 for slower growth							
2:24	took Spectral imaging of crystals (20200722IceK2SO4U02)	-33.7						
2:29	took image	-33.7						
2:30	set temp to -30							
2:33	took image (is it abalting?)	-30.7						
2:35	took Spectral imaging of crystals (20200722IceK2SO4U03)	-30.8						
2:42	took image	-30.8						
2:43	took Spectral imaging of crystals (20200722IceK2SO4U04)	-30.8						
2:51	took image	-30.8						
2:52	took Spectral imaging of crystals (20200722IceK2SO4U05)	-30.8						
2:58	took image	-30.8						
2:59	took Spectral imaging of crystals (20200722IceK2SO4U06)							
observation:	It seems like 1 freeze/thaw cycle is not enough to produce the elemental haze aound the cyrstals (not clearly observed in elemental anlayis image) however, look abkc at the K+ levels on ice vs SO42- levels							
3:05	took image	-30.8						
3:05	set temp to -34							
3:08	took image	-34.7						
3:10	took image	-34.7						
3:10	set temp to -30							
3;11	set temp to -33							
3:12	set temp to -30							
3:14	set temp to -33							
3:15	took Spectral imaging of crystals (20200722IceK2SO4U07)	-33.7						
3:20	set temp to -31							
3:22	took picture	-33.7						
3:22	took Spectral imaging of crystals (20200722IceK2SO4U08)							
3:32	took Spectral imaging of crystals (20200722IceK2SO4U09)	-31.7						
3:38	took image	-31.7						
3:38	set temp to -33							
3:40	took Spectral imaging of crystals (20200722IceK2SO4U010)	-33.7						
3:45	set temp to -30							
3:50	took image	-30.8						
3:53	took Spectral imaging of crystals (20200722IceK2SO4U011)	-30.8						
3:59	took Spectral imaging of crystals (20200722IceK2SO4U012)	-30.8						
4:06	took Spectral imaging of crystals (20200722IceK2SO4U013)	-30.8						
4:14	ended experiment							