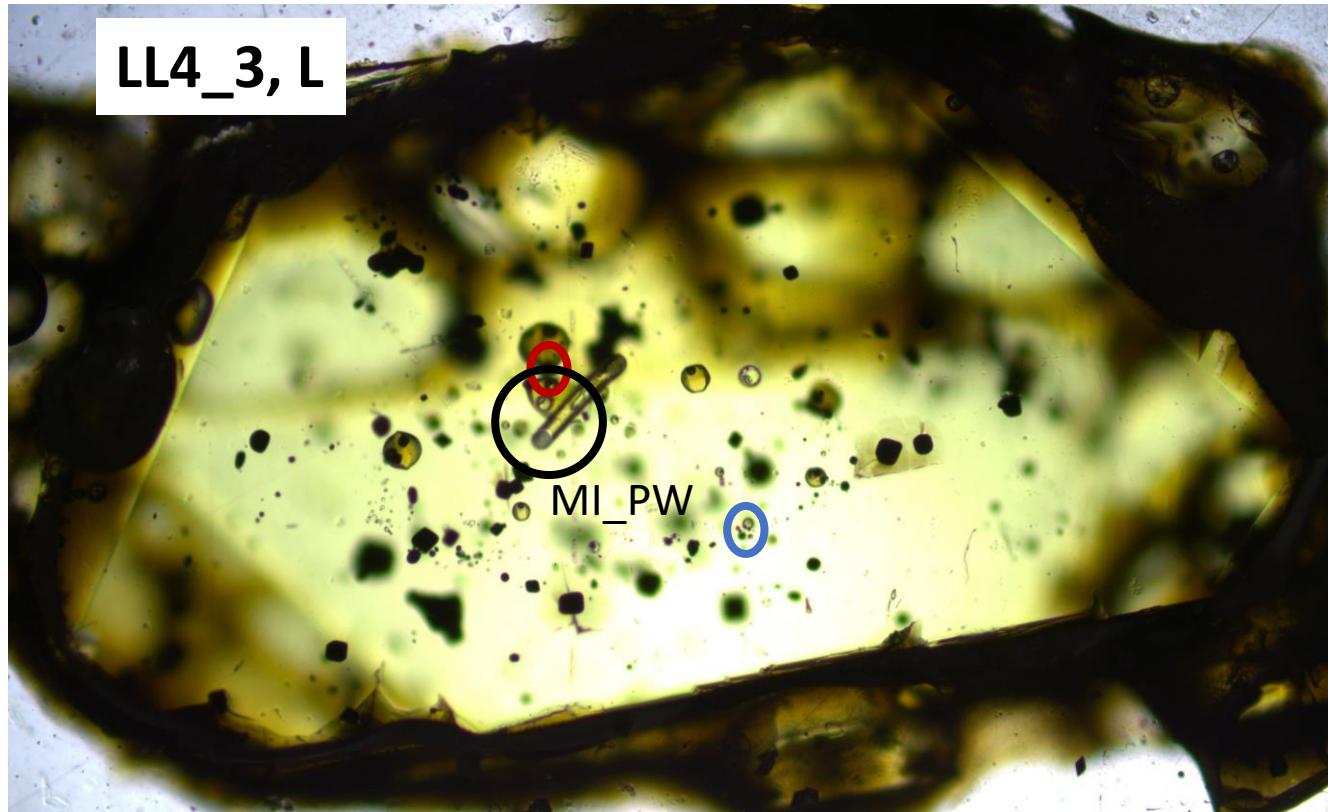
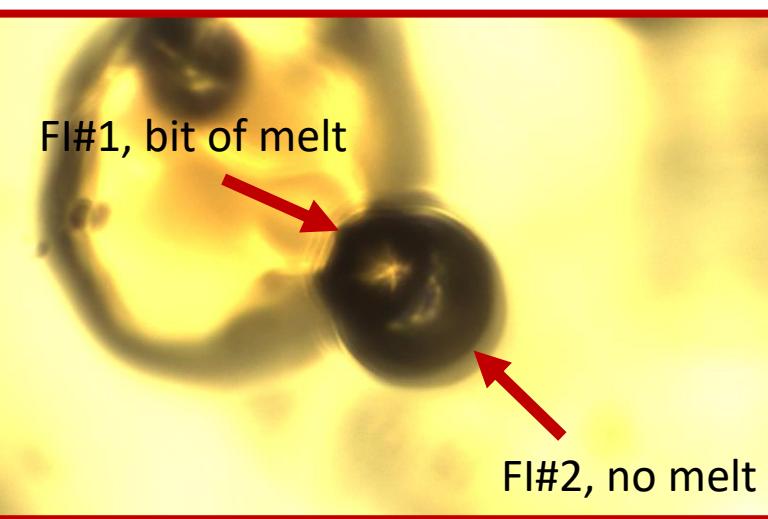


This section depicts melt and fluid inclusions found in crystals from Wieser et al., 2021

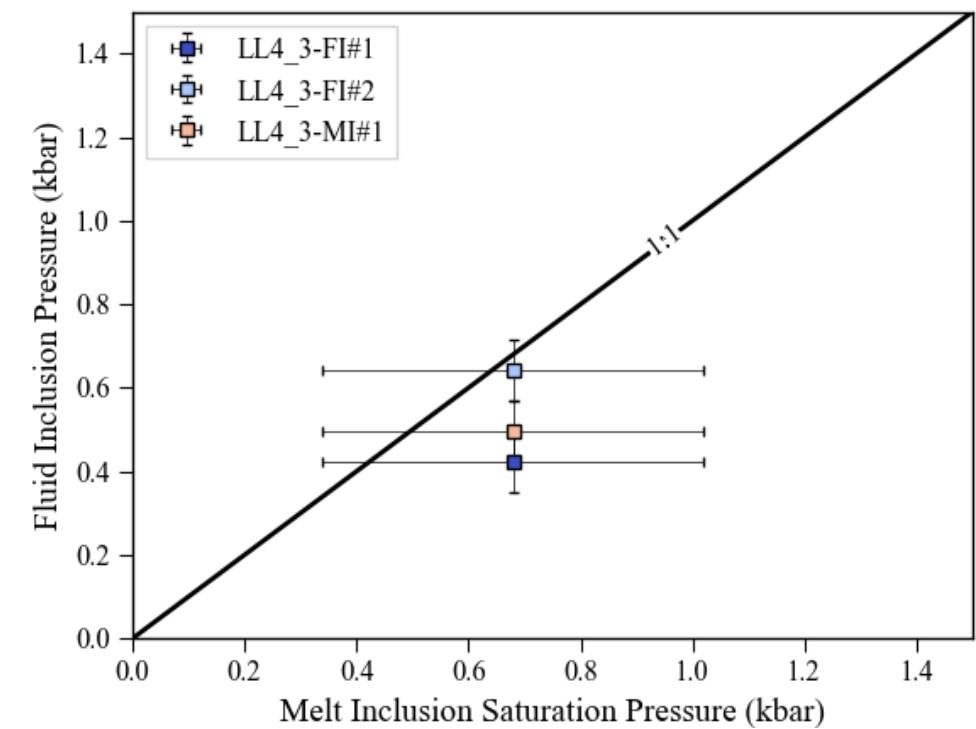
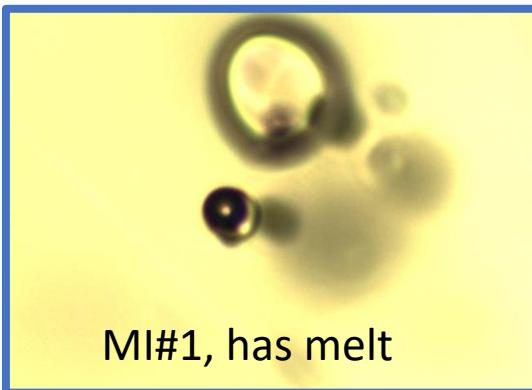
LL4_3, L



R

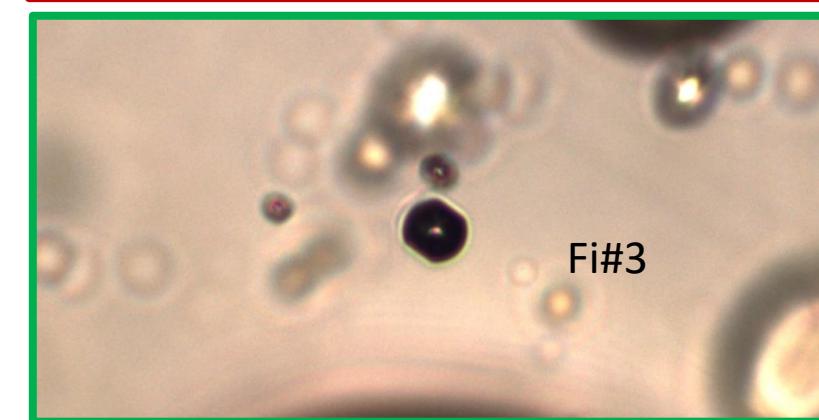
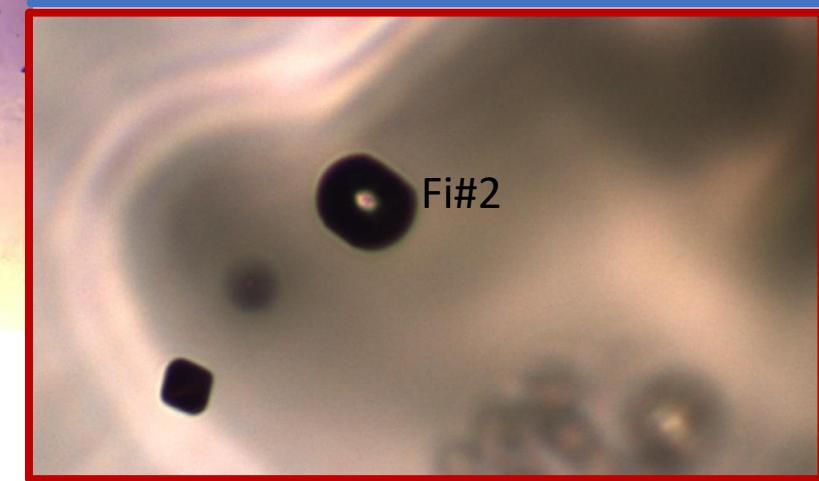
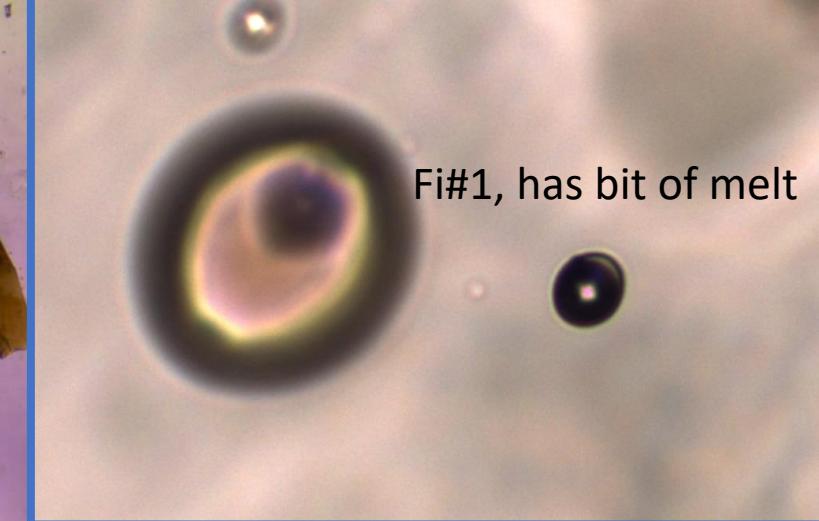
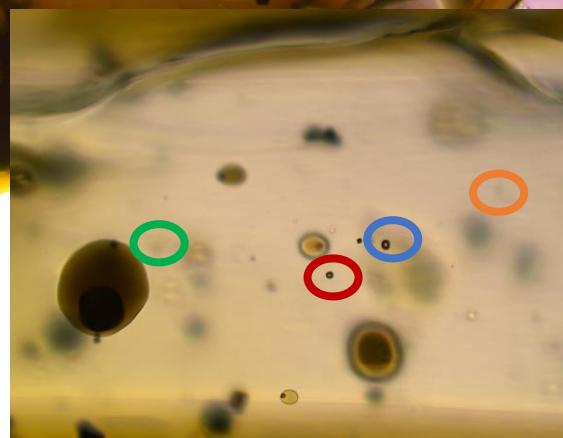
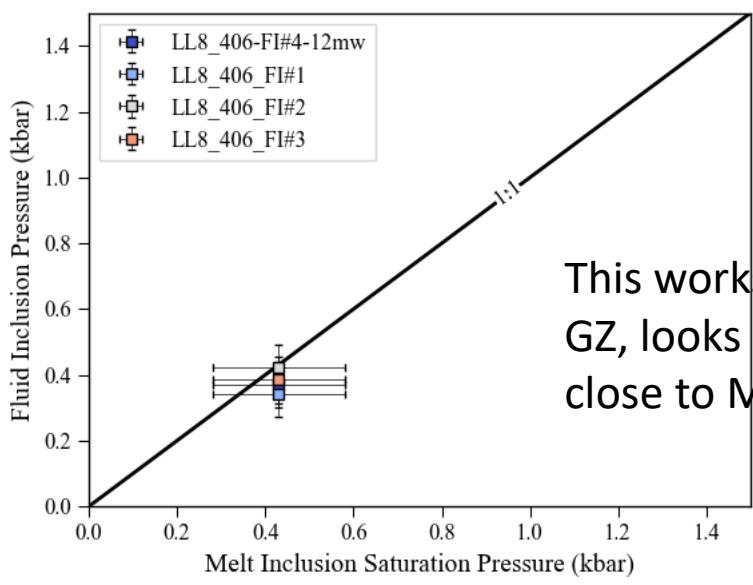
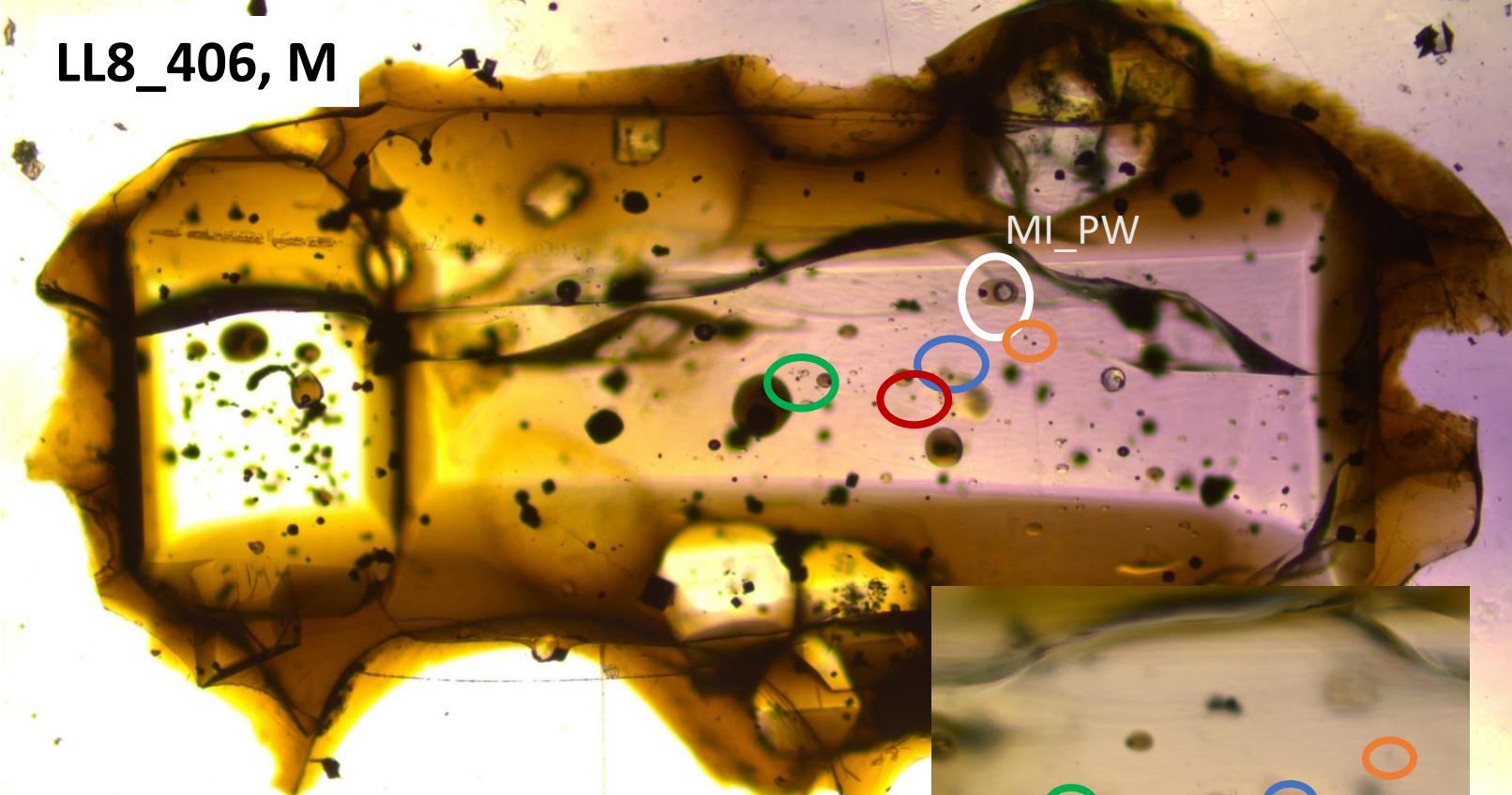


This one works,
The FI are in close
proximity to the MI
MI#1 is a bit
further but seems
on the same
growth plane
optically.

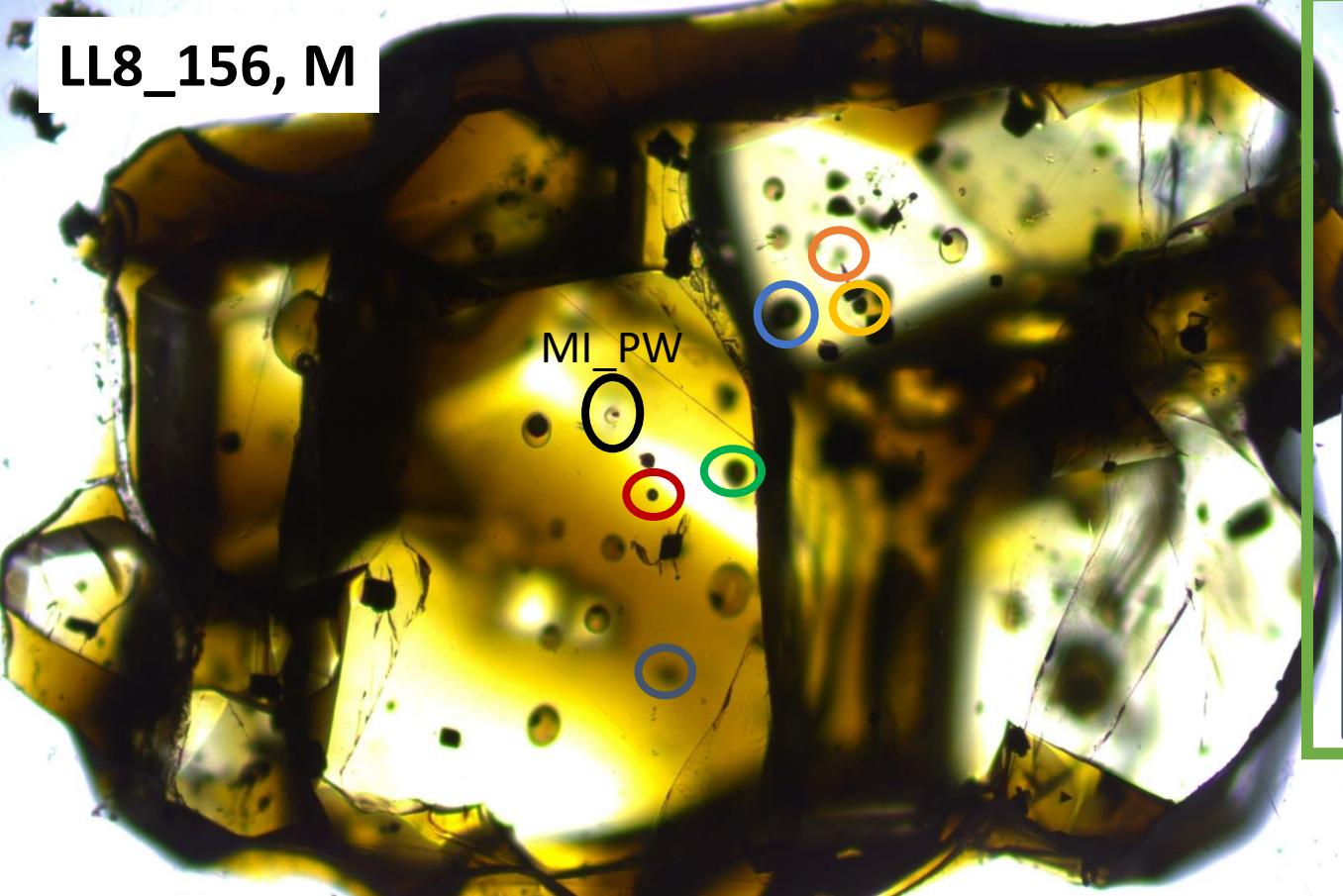


LL8_406, M

R



LL8_156, M



Fi#4, remeasured
Has co₂ and so₂

Fi#6 – has co₂ and so₂

Fi#2- remeasured in Apr23
Has co₂ and so₂

R

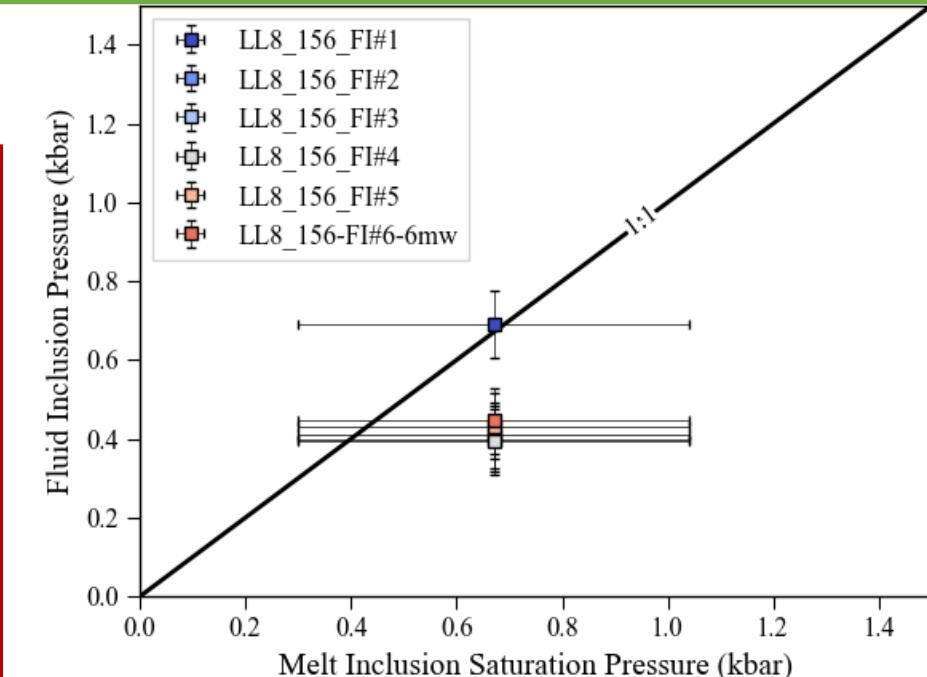
2,6,4 are in the same crystal,
they are within the MI error.
1,3,5 are in a subxtal, but it
could be budded. SEM
needed.

UR

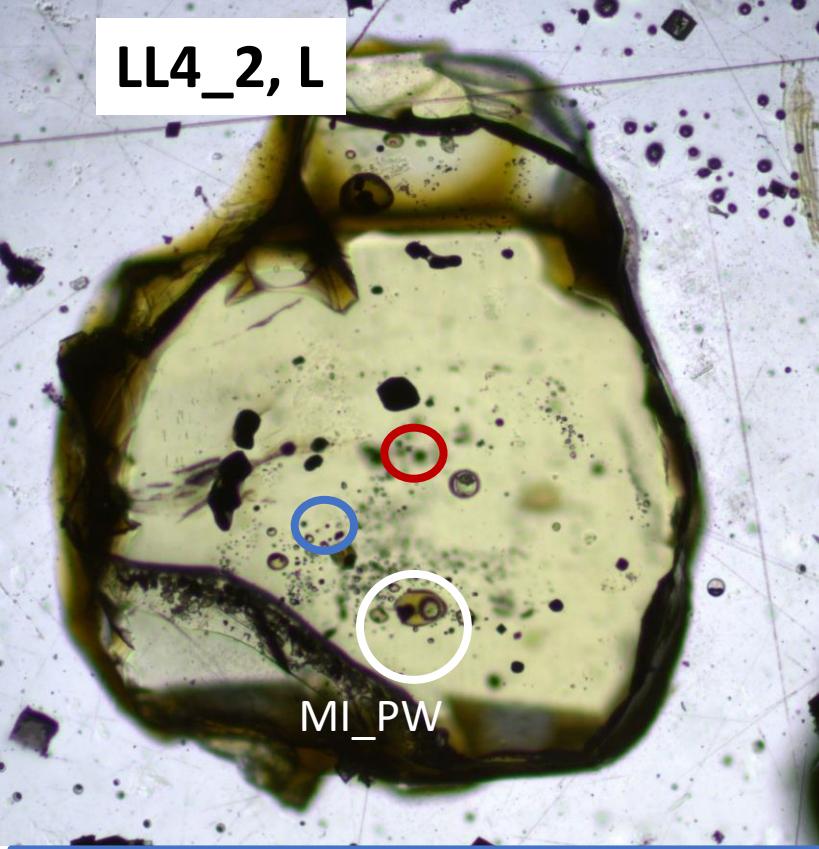
Fi#3

Fi#5 has melt

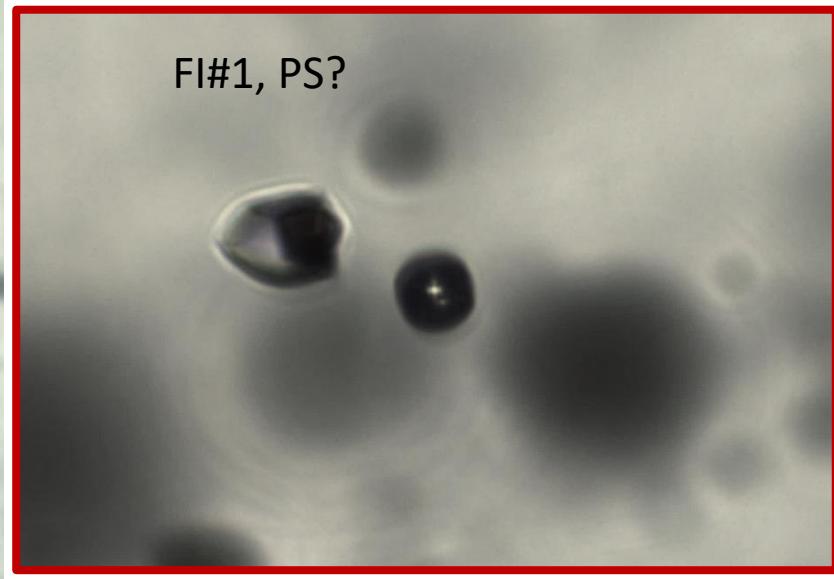
Fi#1, seems the highest



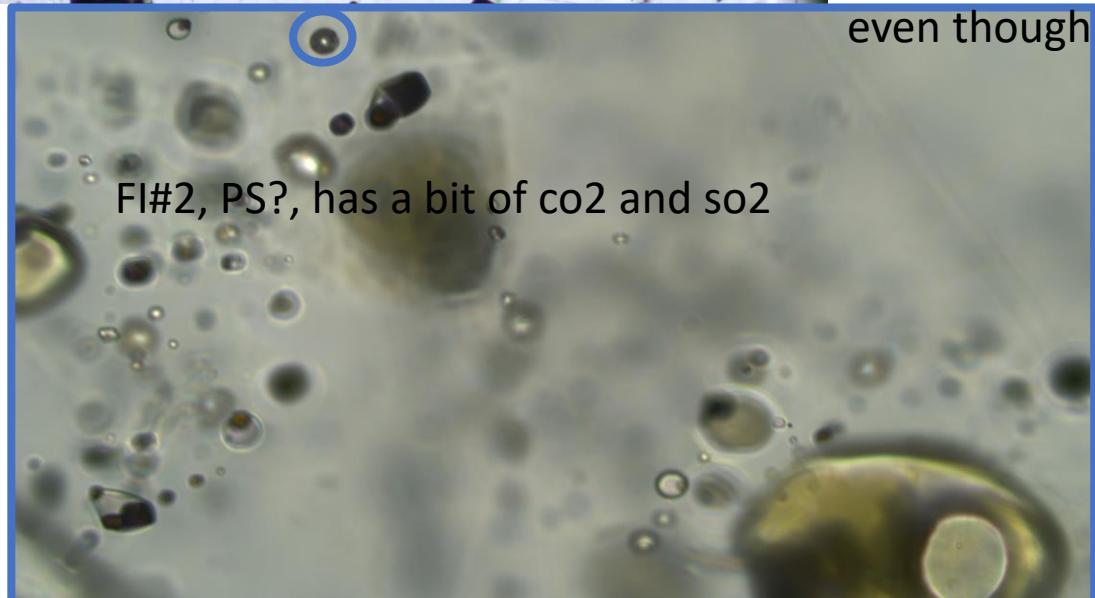
LL4_2, L



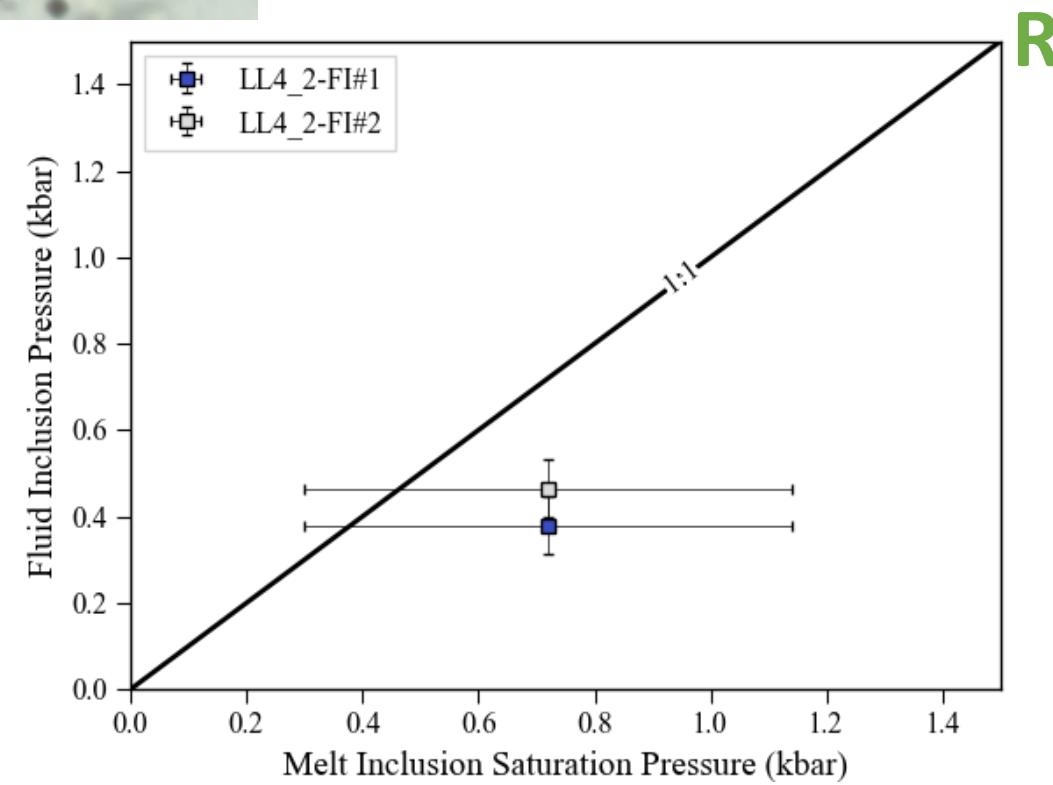
FI#1, PS?



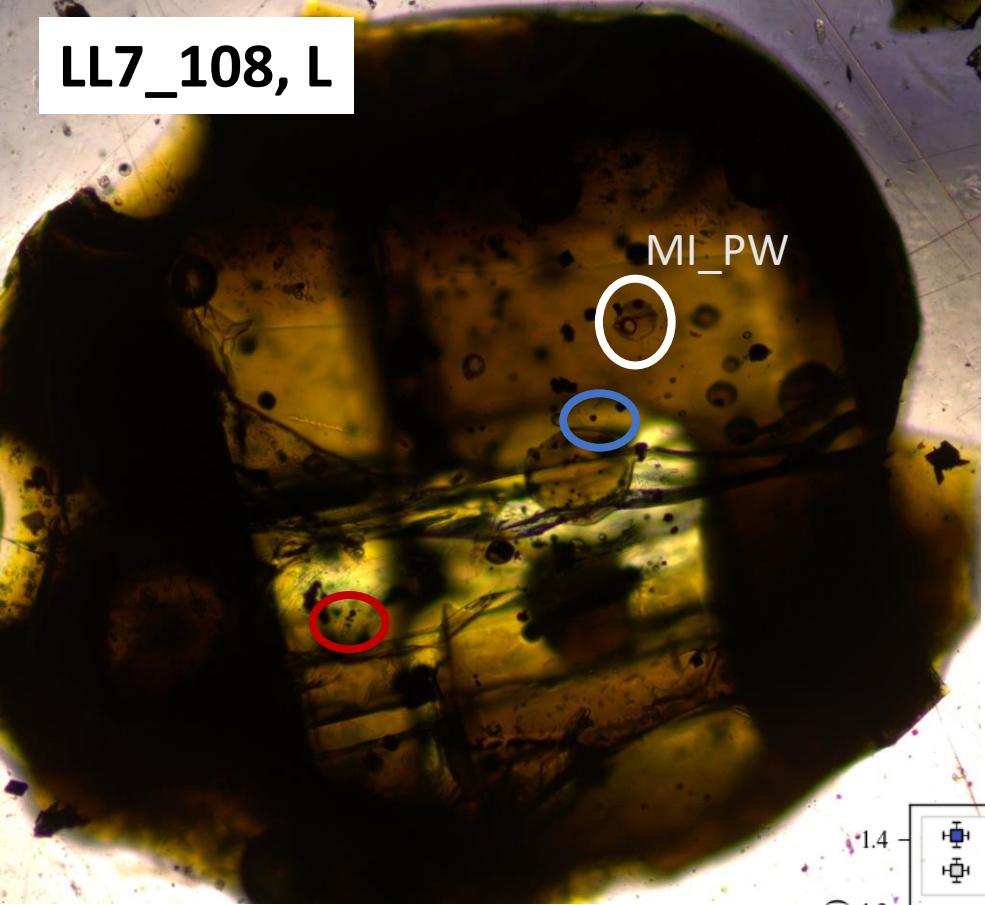
They work, seem to be
In the same FIA (at least
FI#2) or at least fairly coeval,
even though #1 is PS



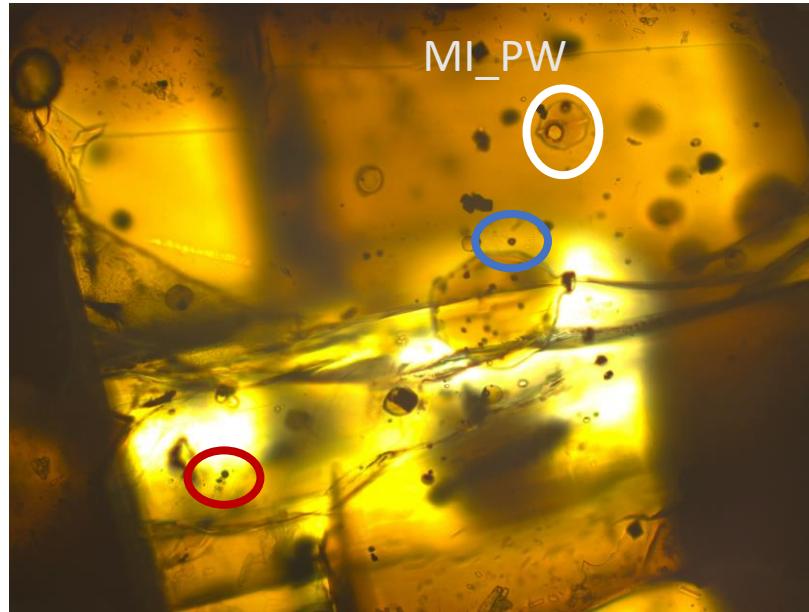
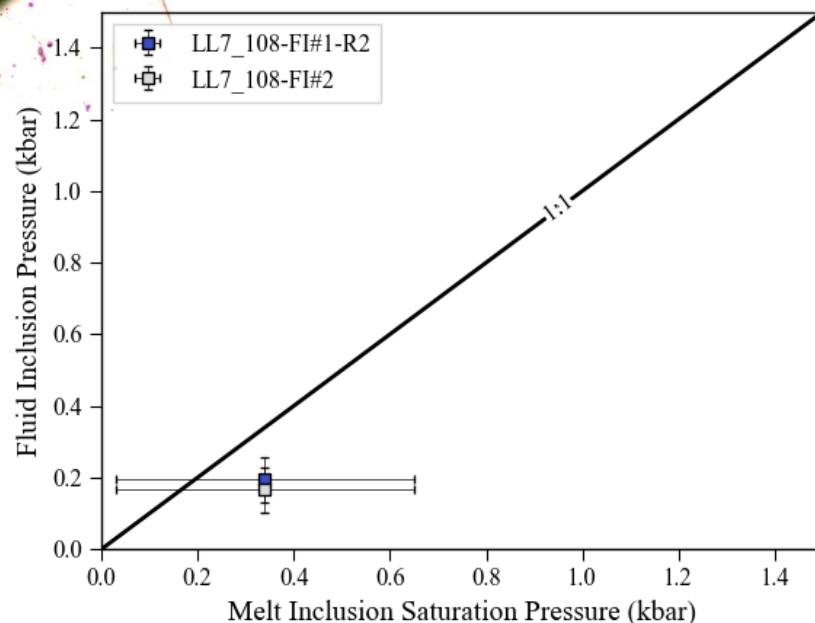
FI#2, PS?, has a bit of co2 and so2



LL7_108, L

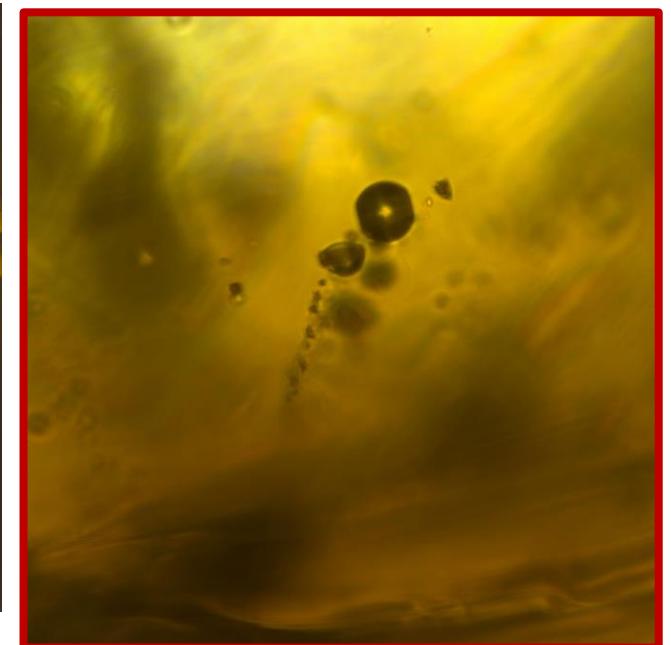


FI#2 is close proximal to the MI,
FI#1 is further and maybe PS, but it records the same pressure.



Fi#1, on a trail PS?

R

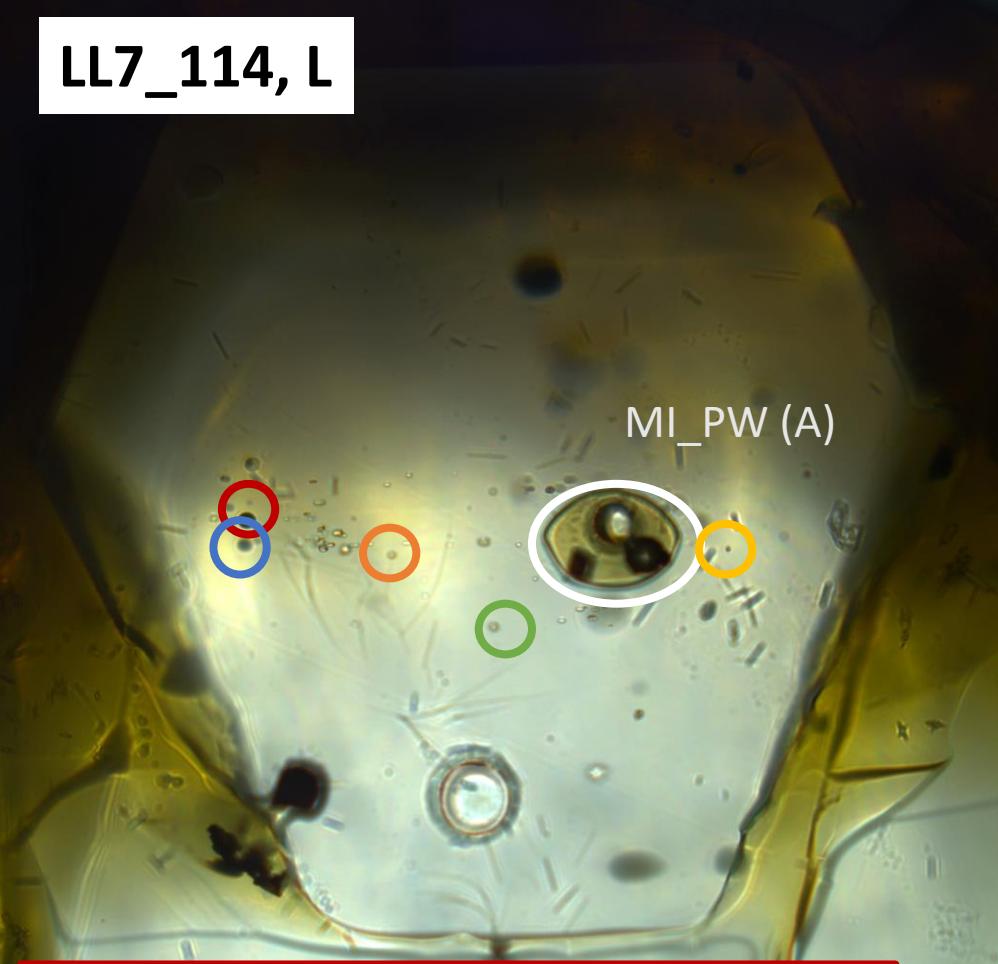


Fi#2, Same xtal, on edge

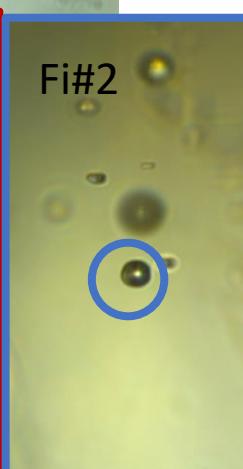
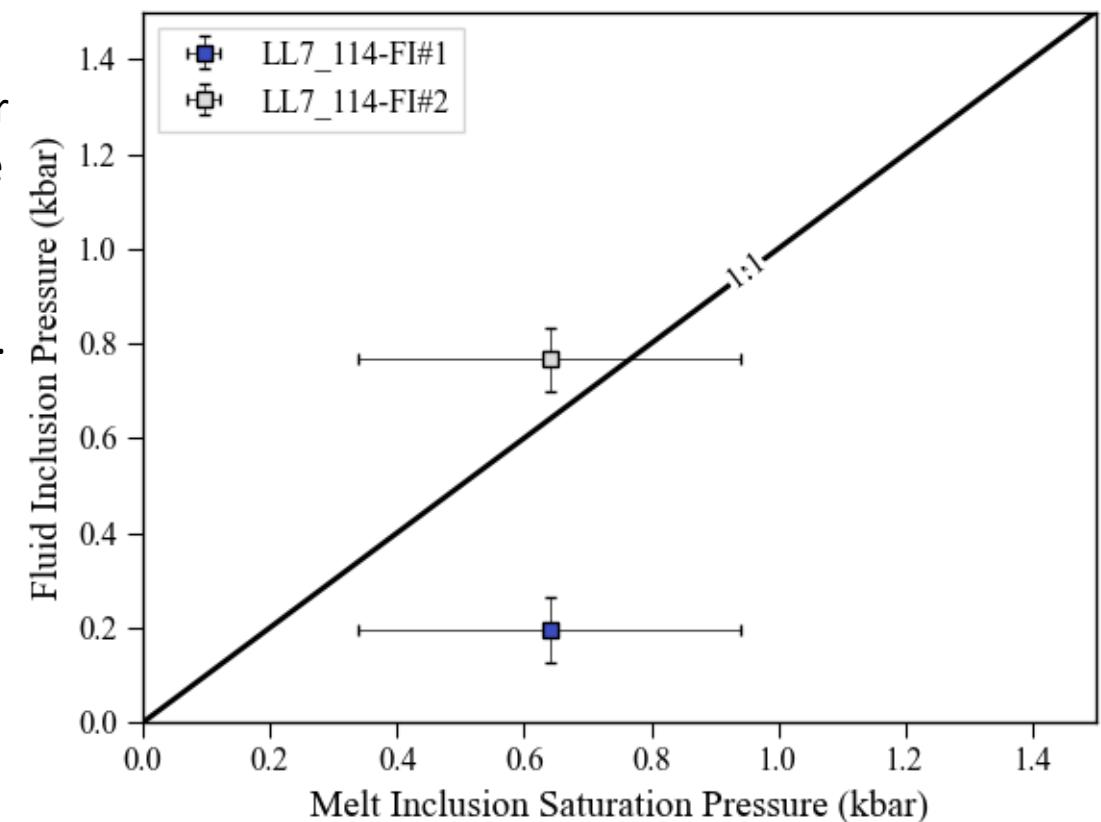


LL7_114, L

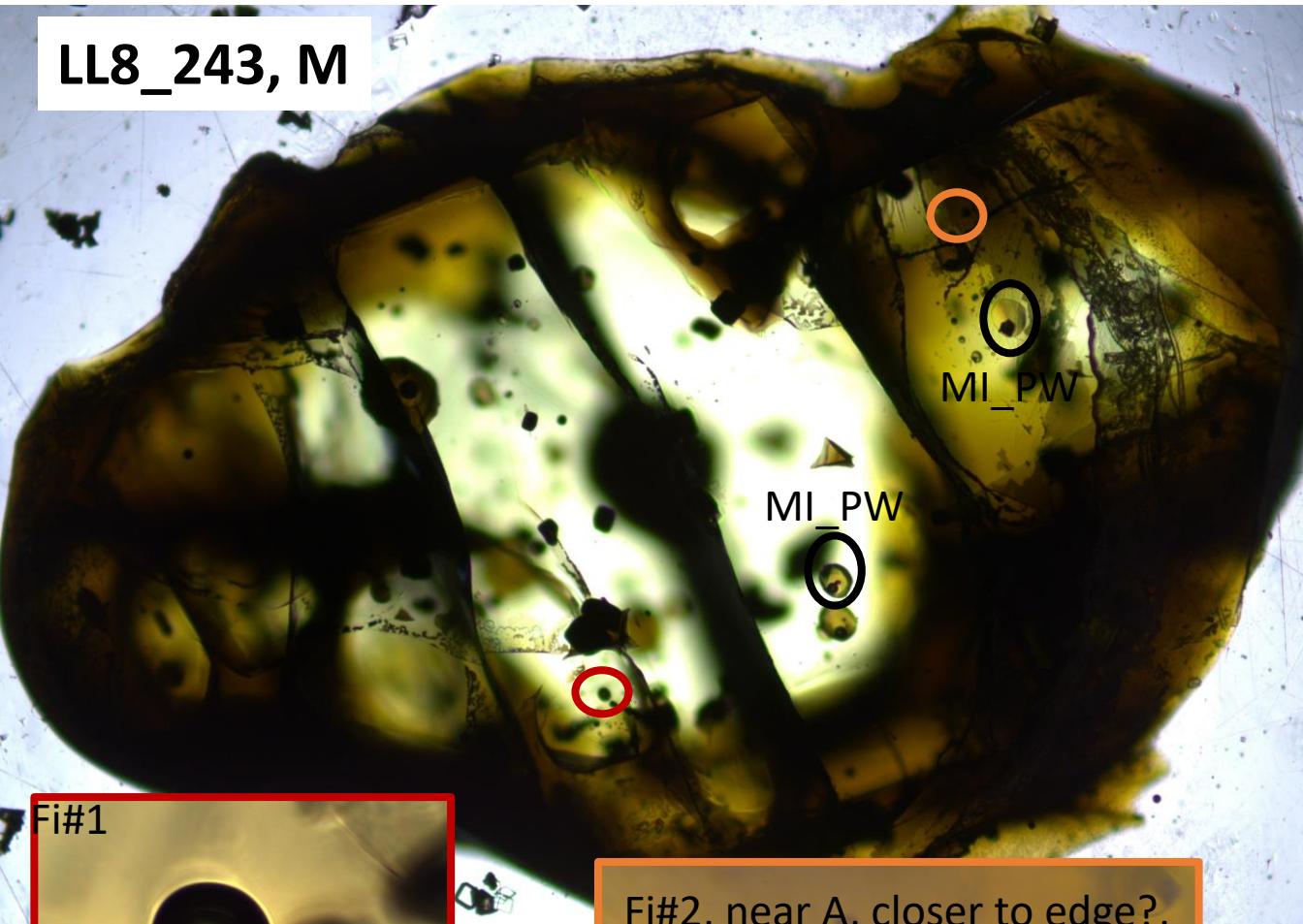
R



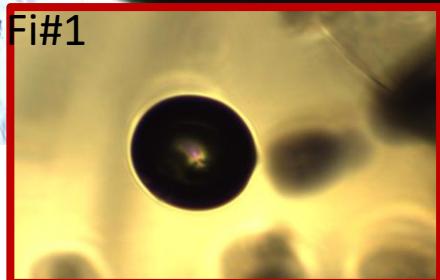
FI#2 is more in the plane of the MI, seems like a similar growth zone of the crystal. FI#1 is deeper but still within a similar GZ. They are close to the MI pressure within error.



LL8_243, M

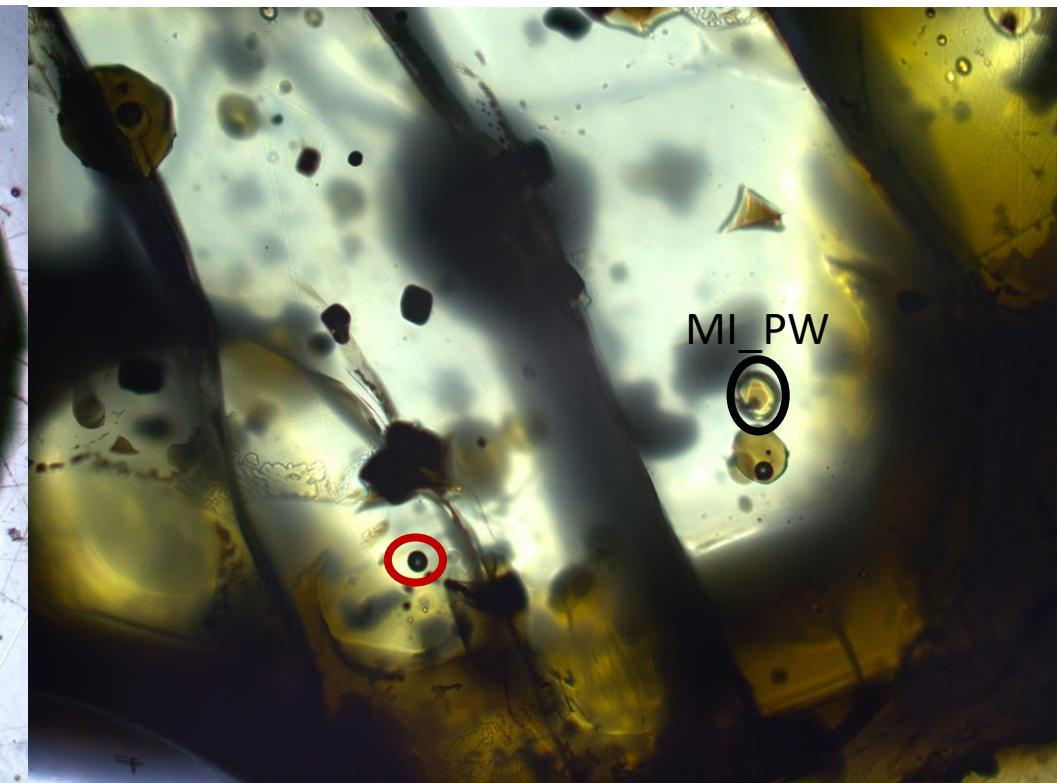


Fi#1

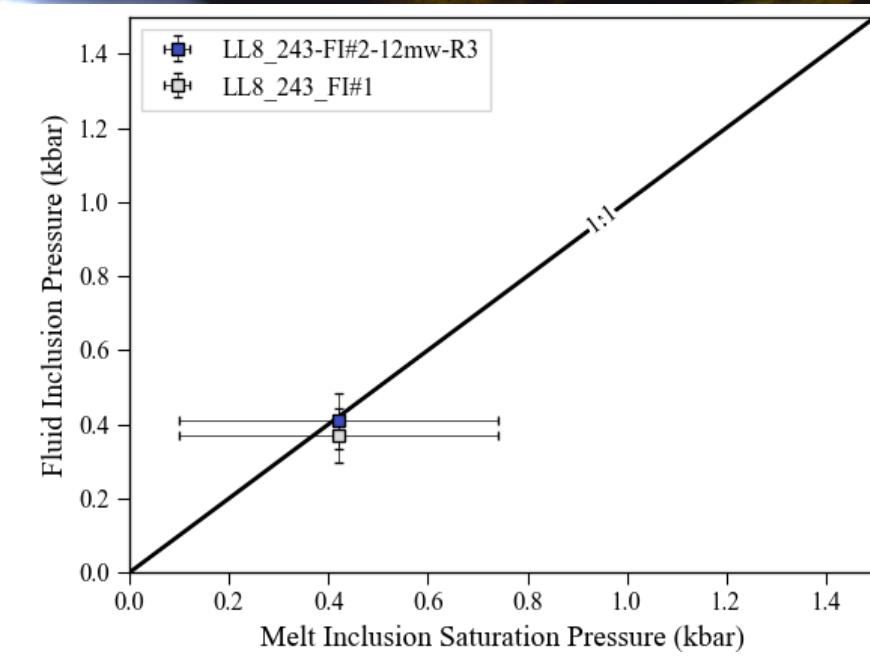


Works, Same crystal for Fi#1. Fi#2 is in different crystal, but could be budded. Fi#1 and MI are near crystal edge.

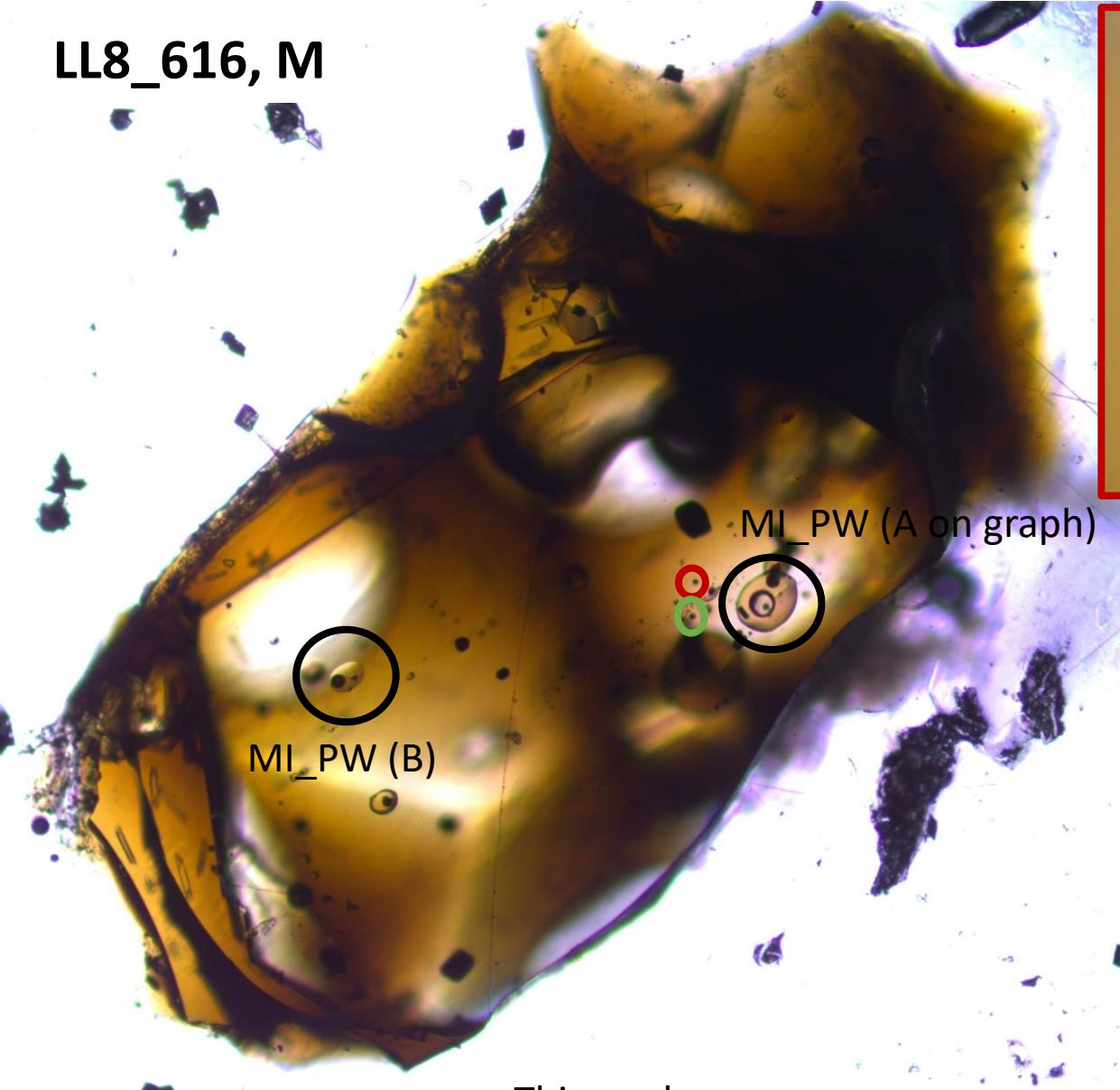
Fi#2, near A, closer to edge?, aligned, has co2, not strong.



R

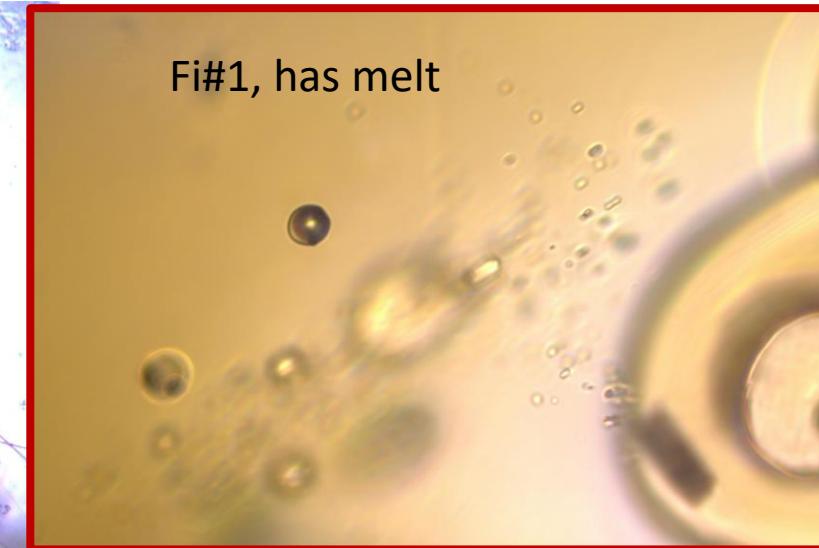


LL8_616, M

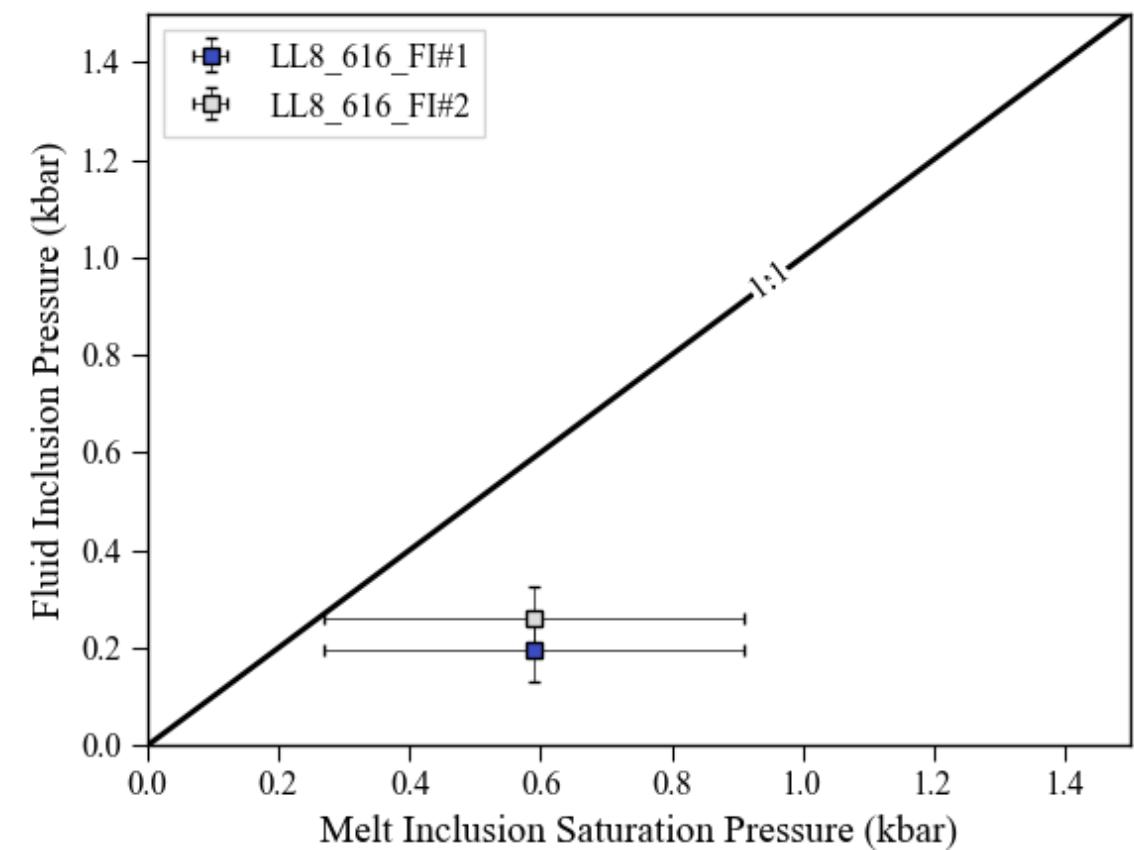


This works,
though they have
melt. Within error

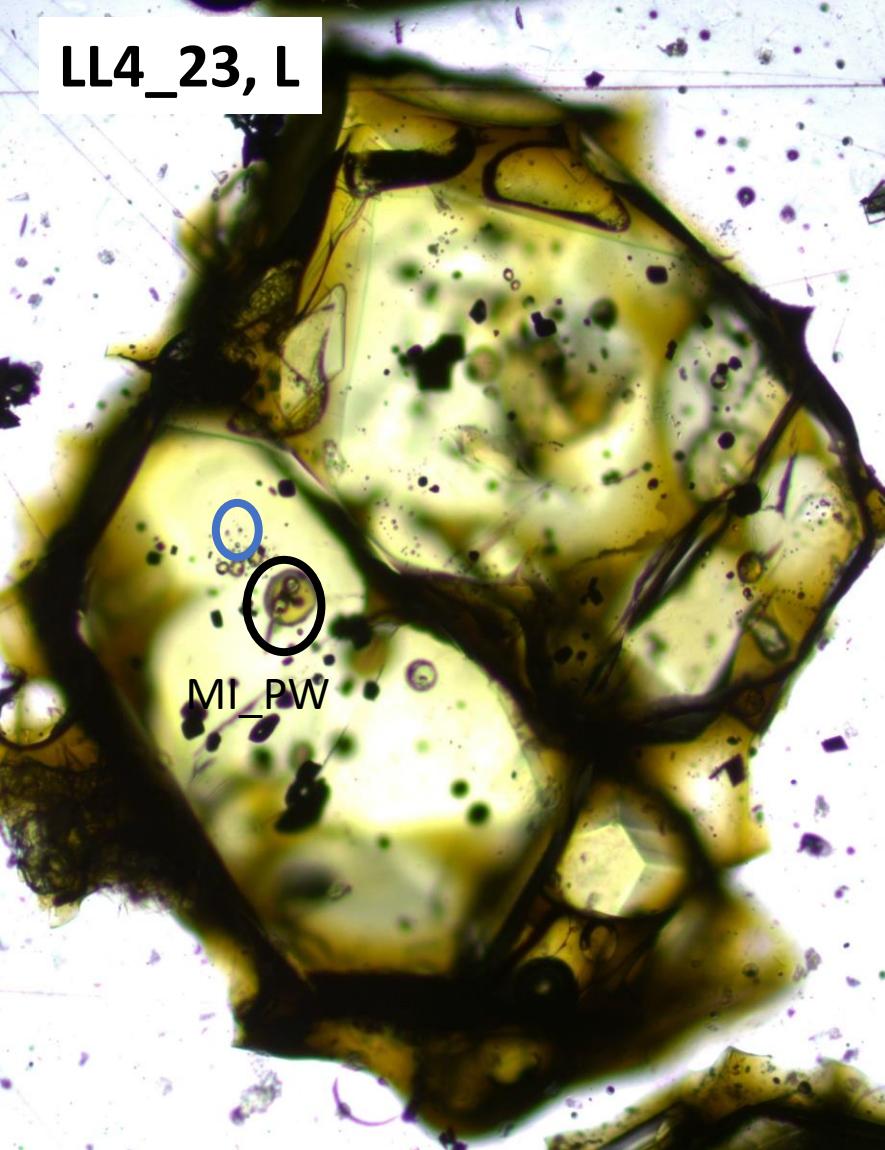
Fi#1, has melt



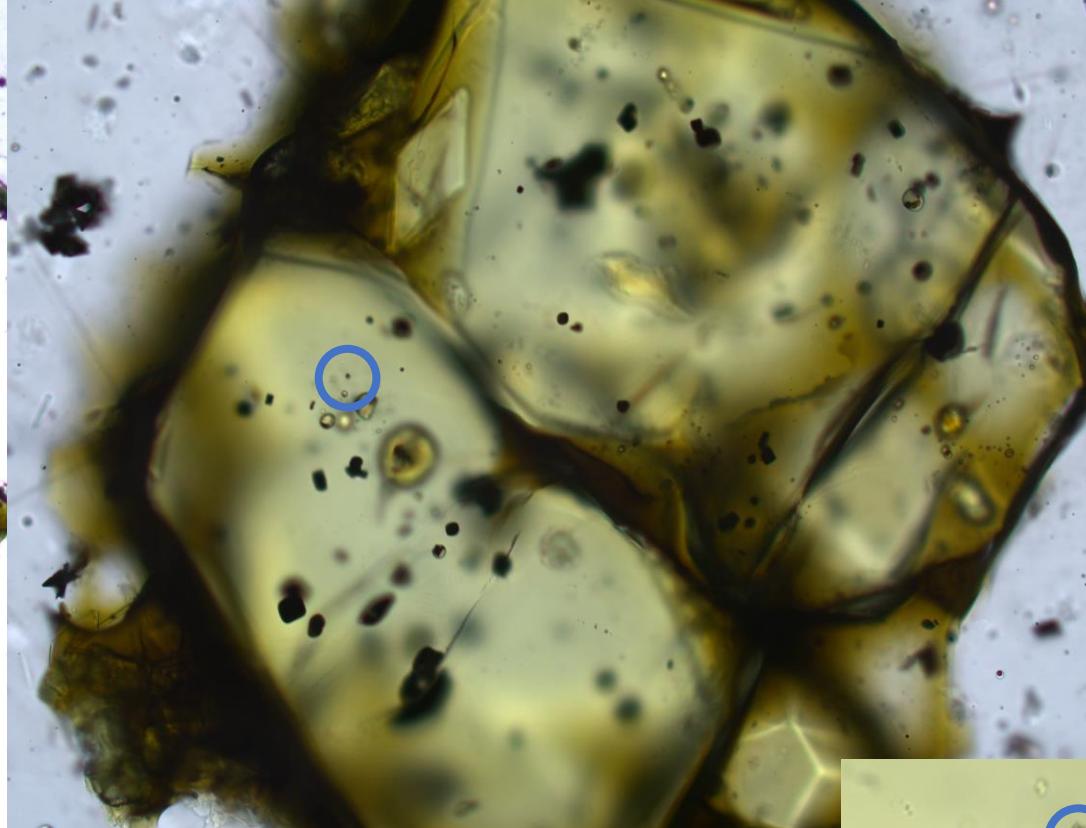
R



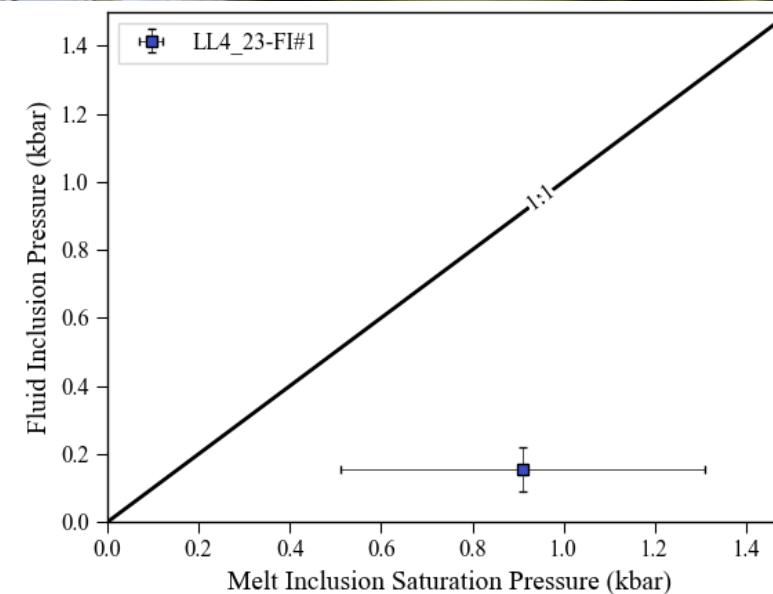
LL4_23, L



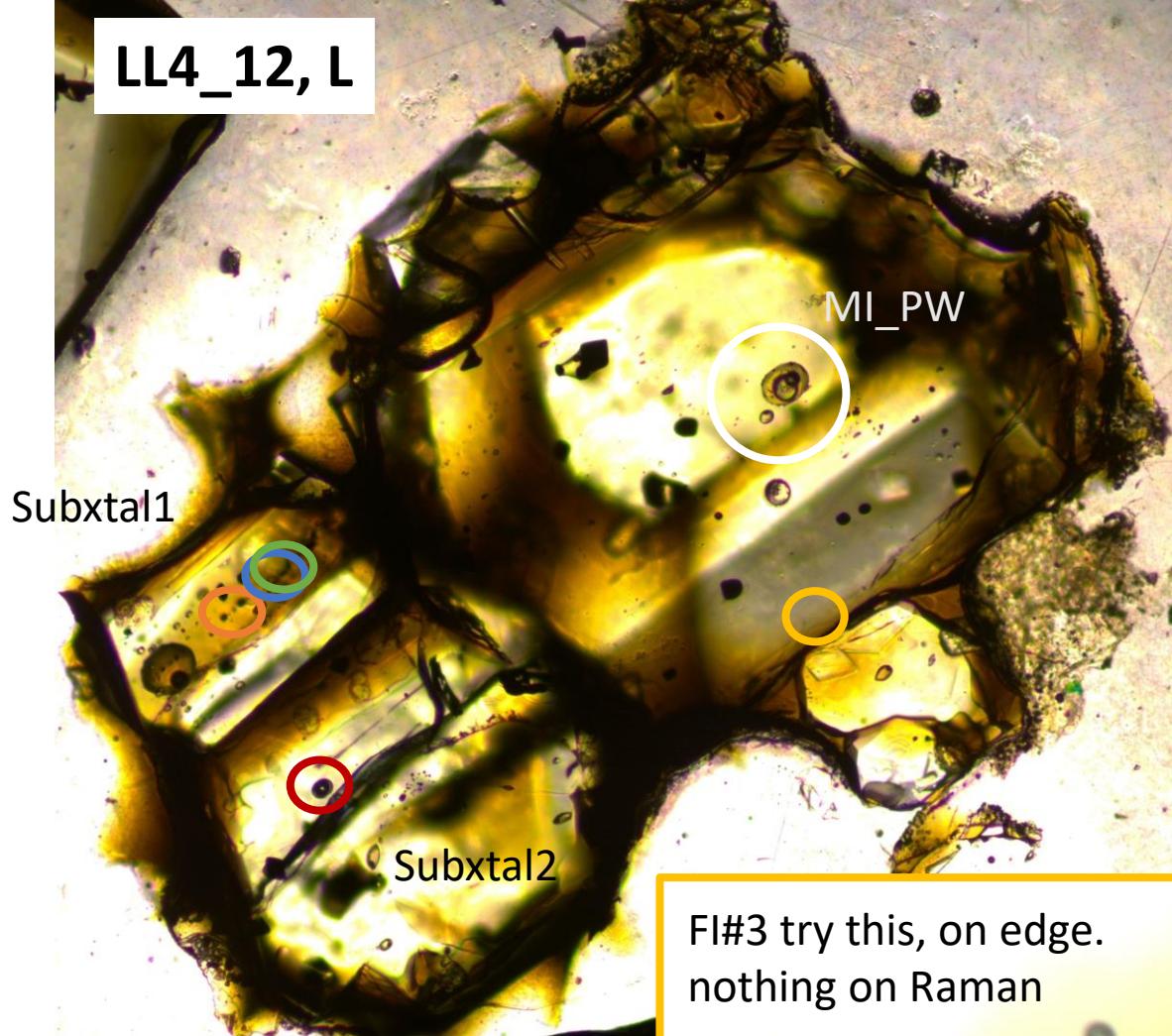
R



This was a really bad spec. High bckg, not lots of points above, low Intensity/FWHM ratio (below 200). the fit error was high (30% on density). It has SO₂.

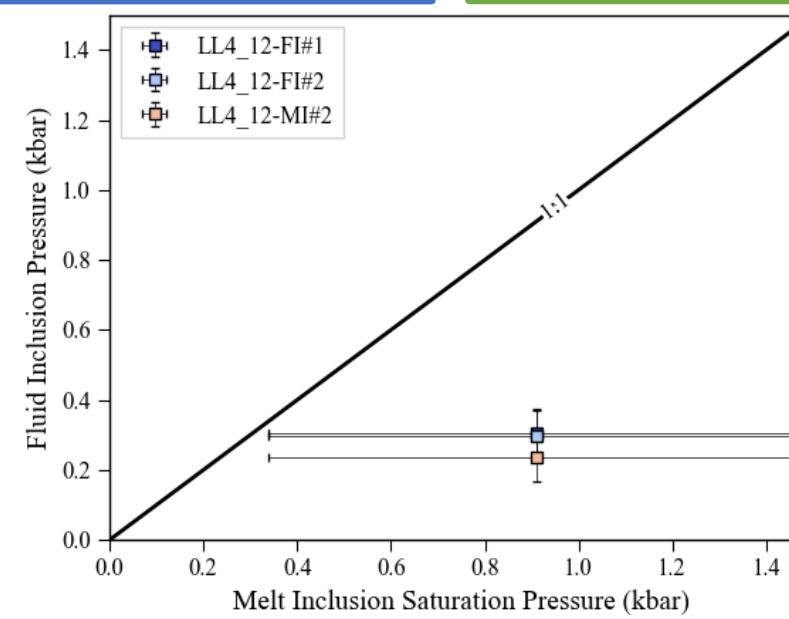
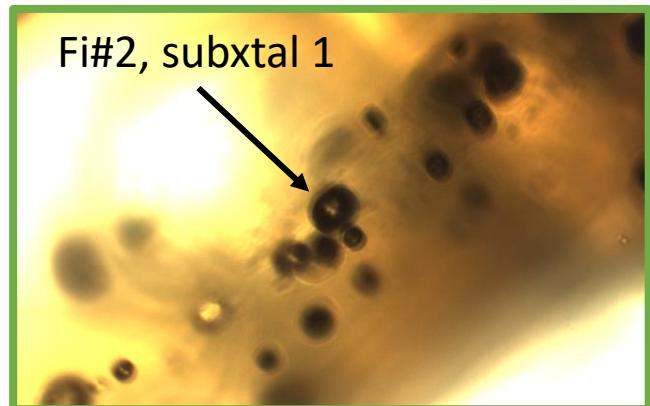
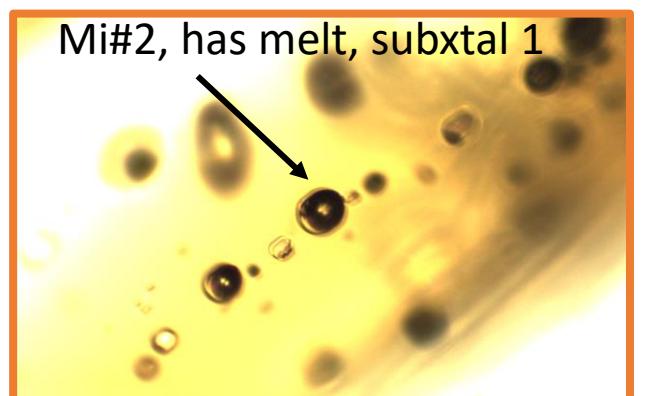
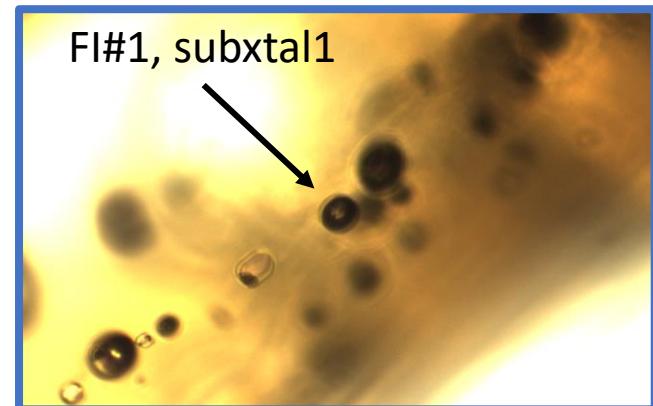
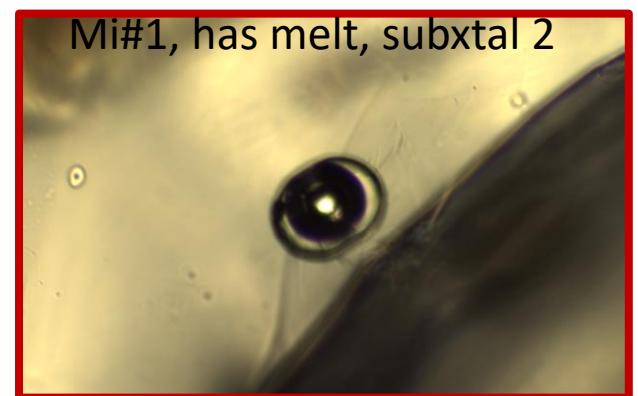


LL4_12, L

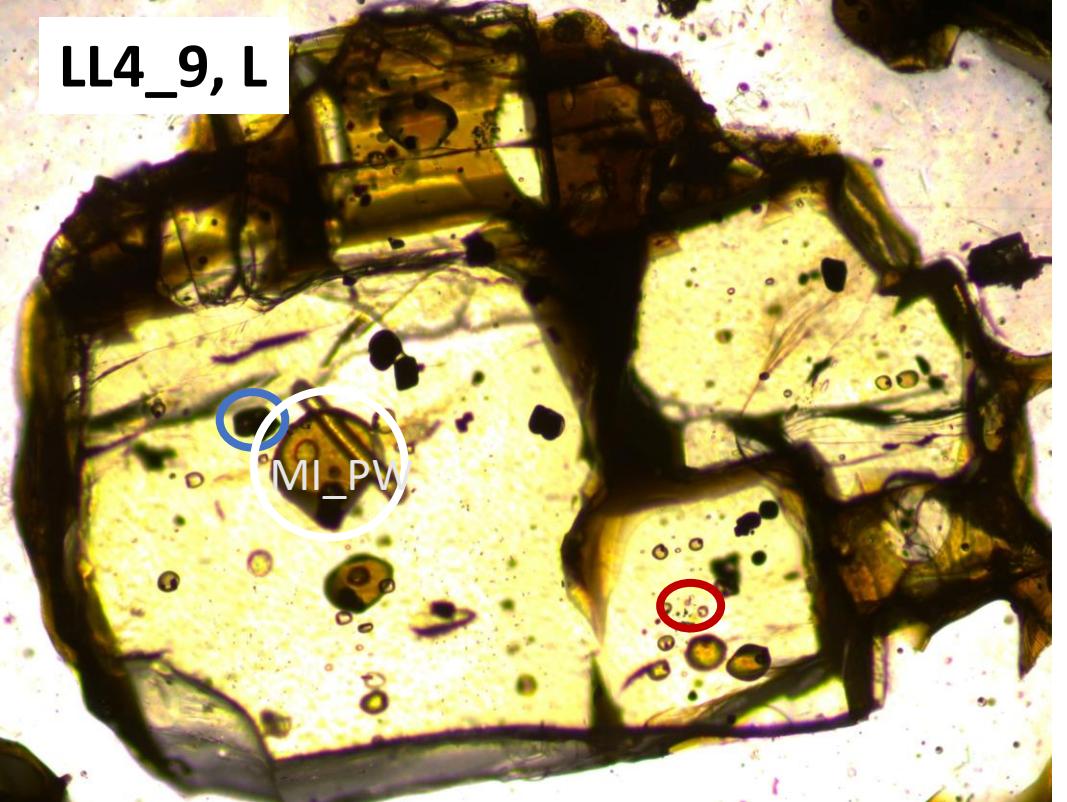


The FI are in a separate subxtal, so they don't work
Example for main article

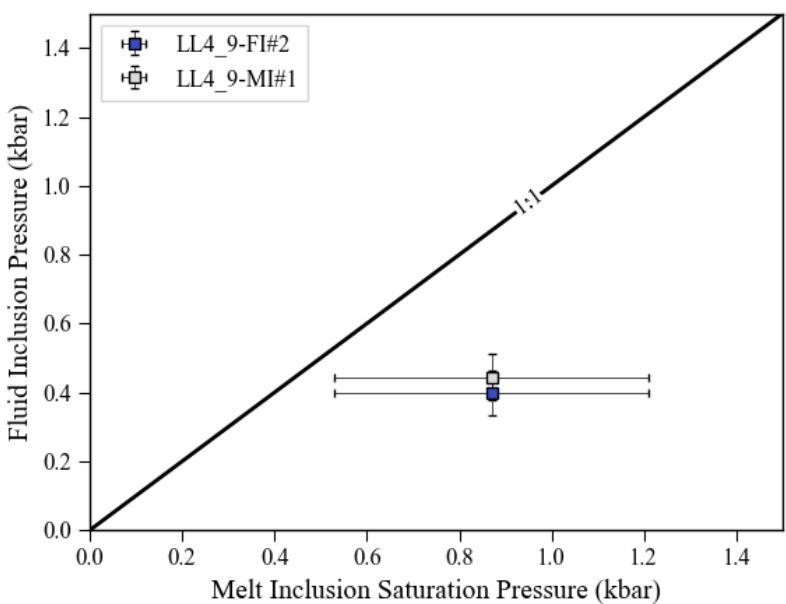
FI#3 try this, on edge.
nothing on Raman



LL4_9, L

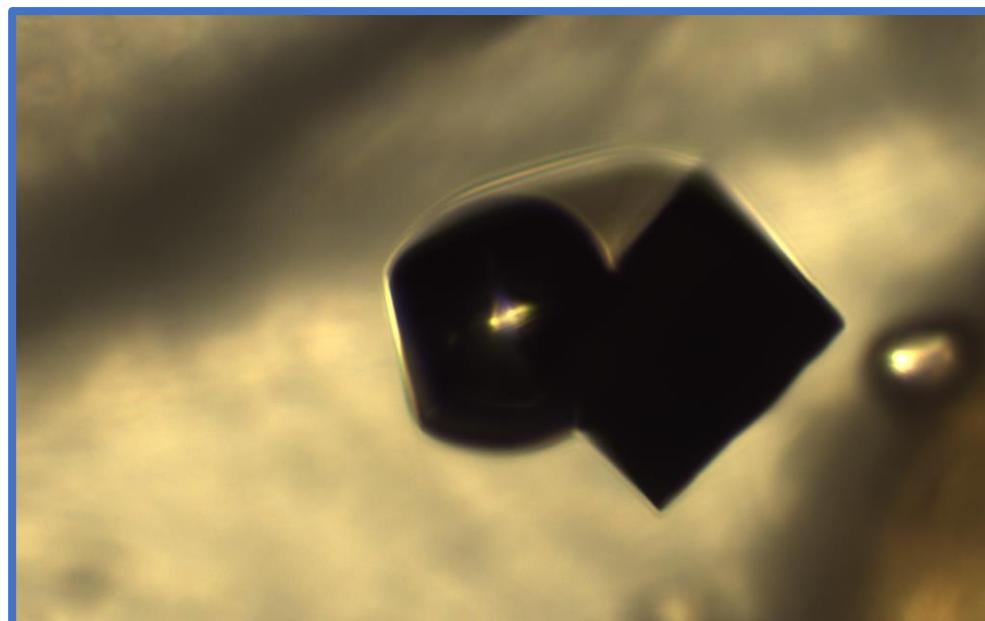


The FI with no melt is in a separate xtal. The other one has melt

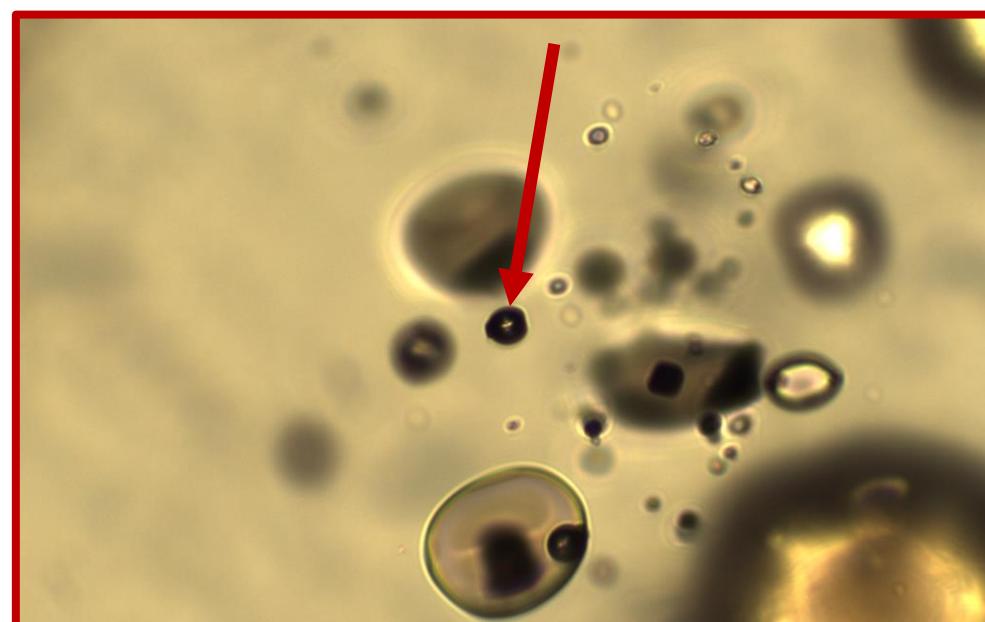


Mi#1, has some melt

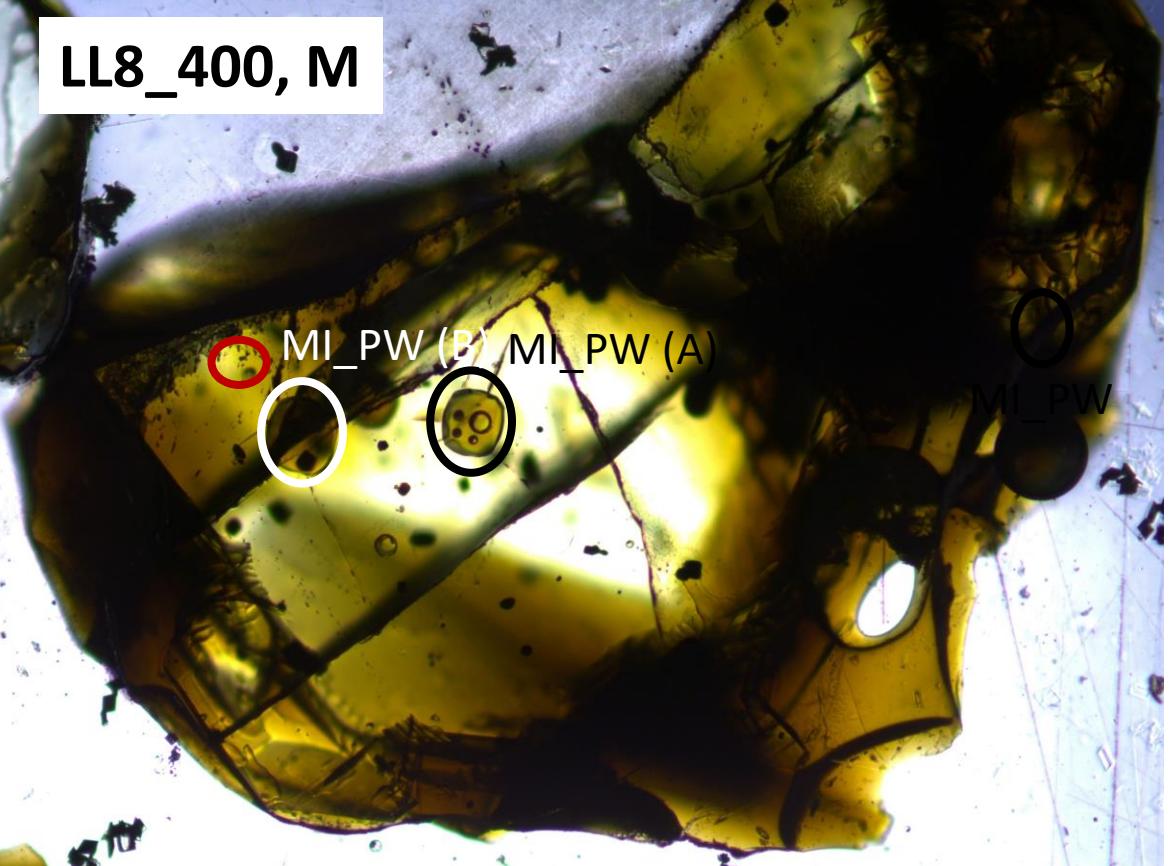
UR



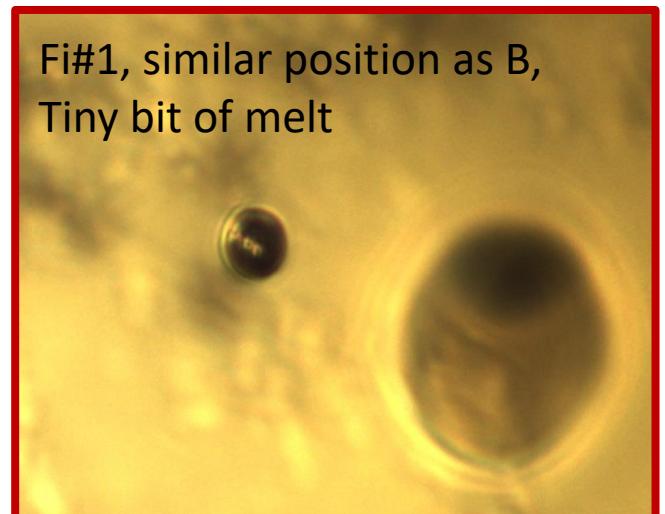
Fi#2, separate sub xtal



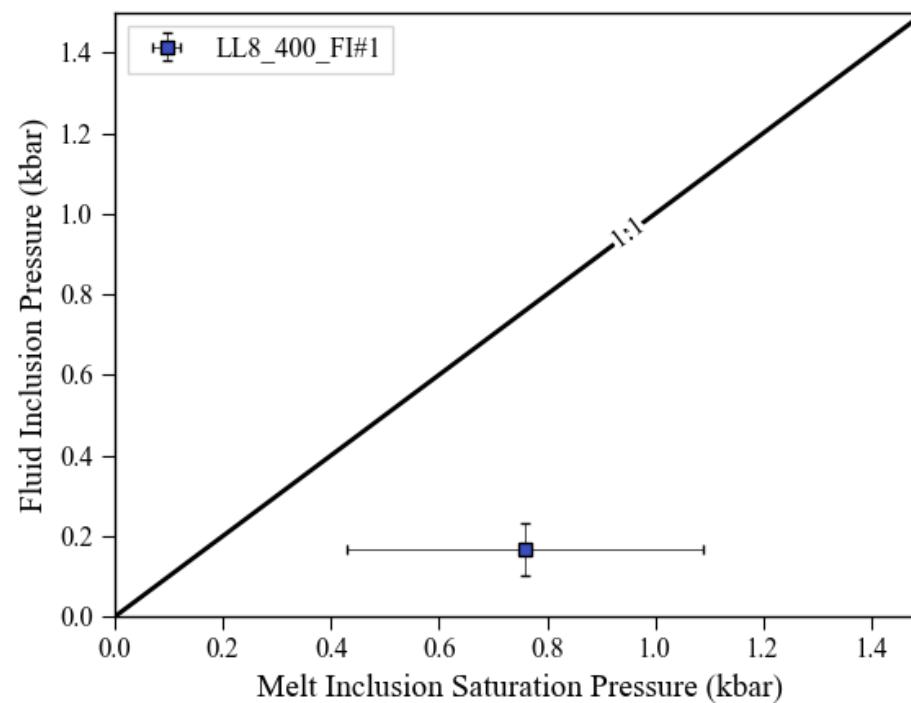
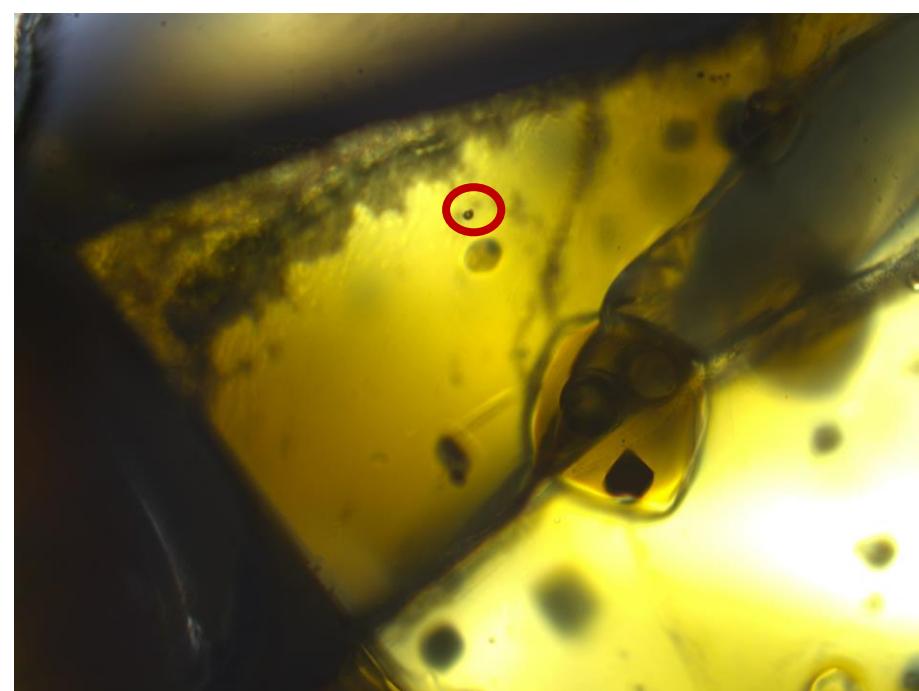
LL8_400, M



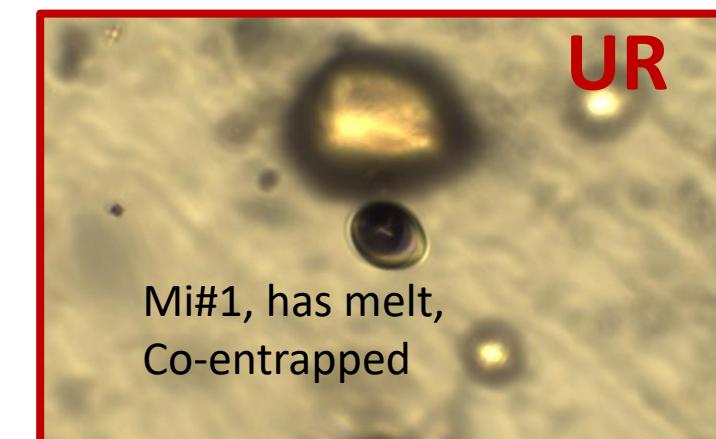
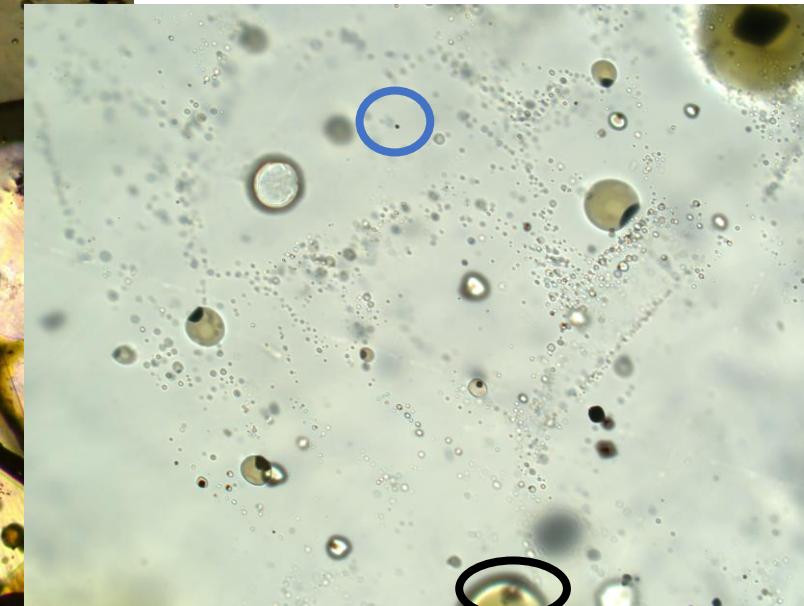
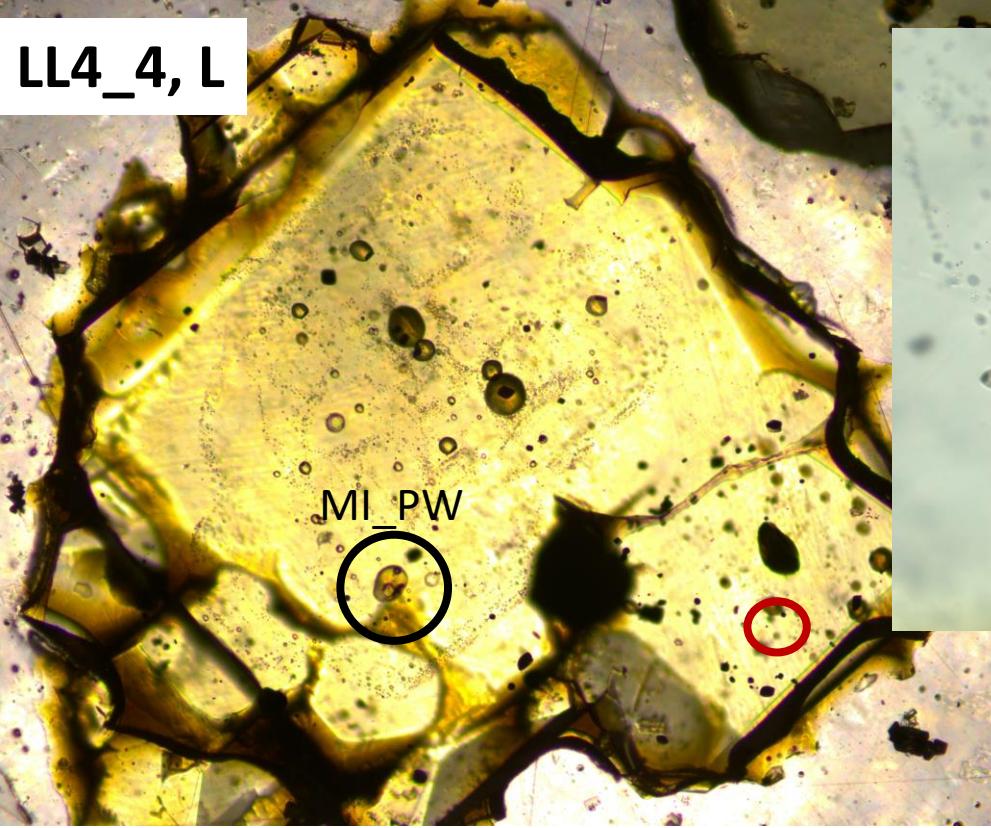
Fi#1, similar position as B,
Tiny bit of melt



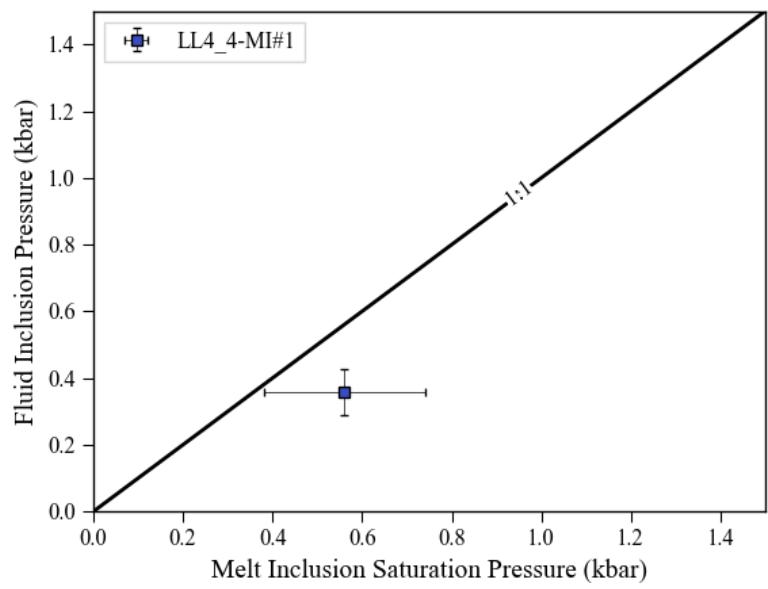
This one is nearer edge
of crystal and has melt.
MI A is the good MI
here, B was cracked
(bad MI). Also, bad spec
with high error (58%)
with bad features and
low intensity/fwhm.



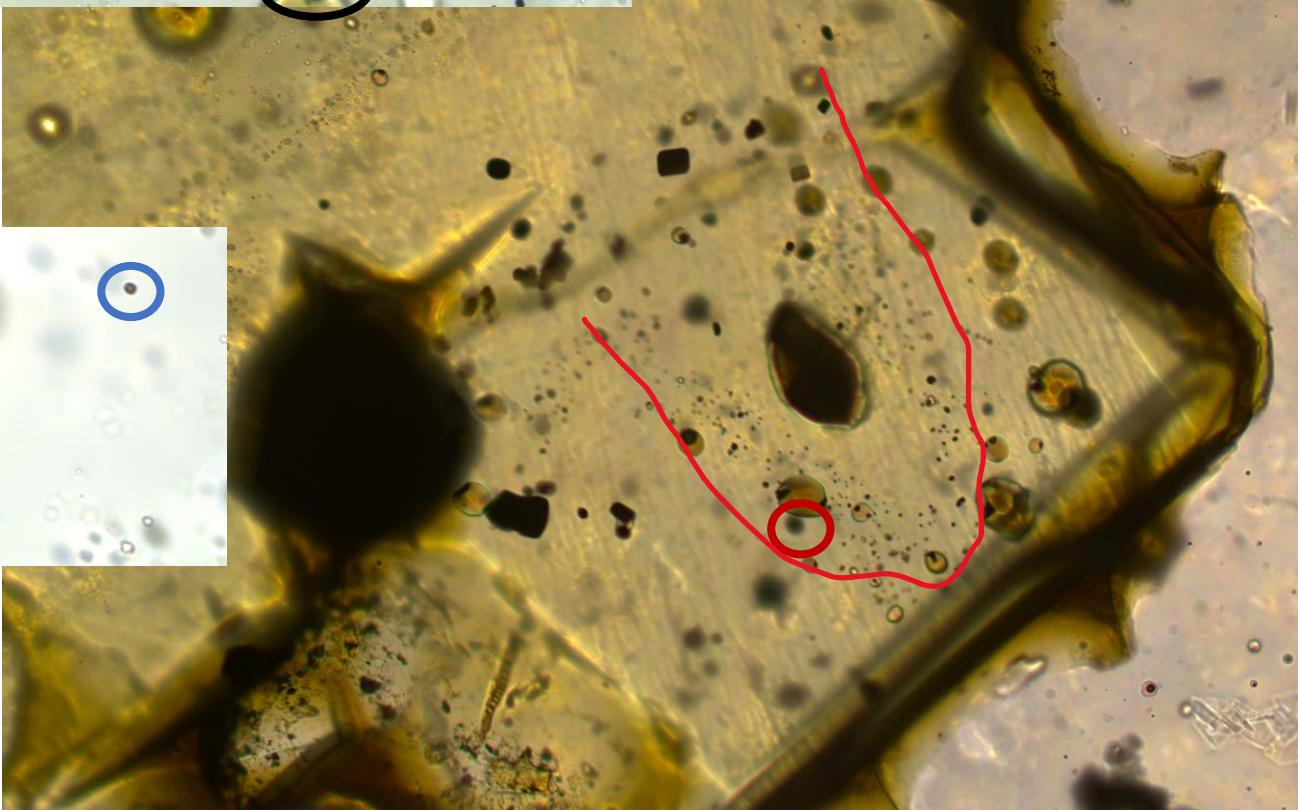
LL4_4, L



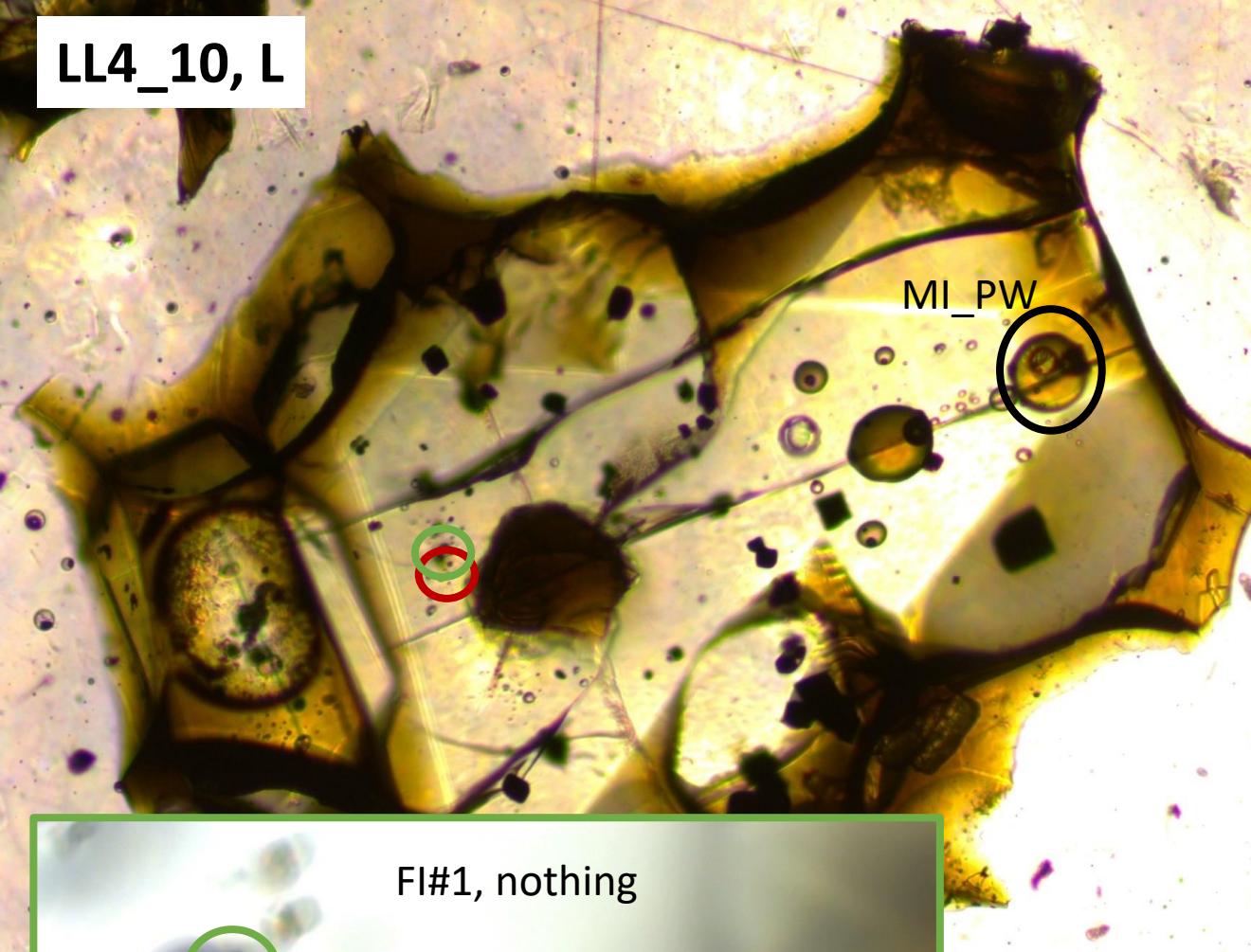
UR



This one appears to be a bud, needs more data, also has melt.



LL4_10, L

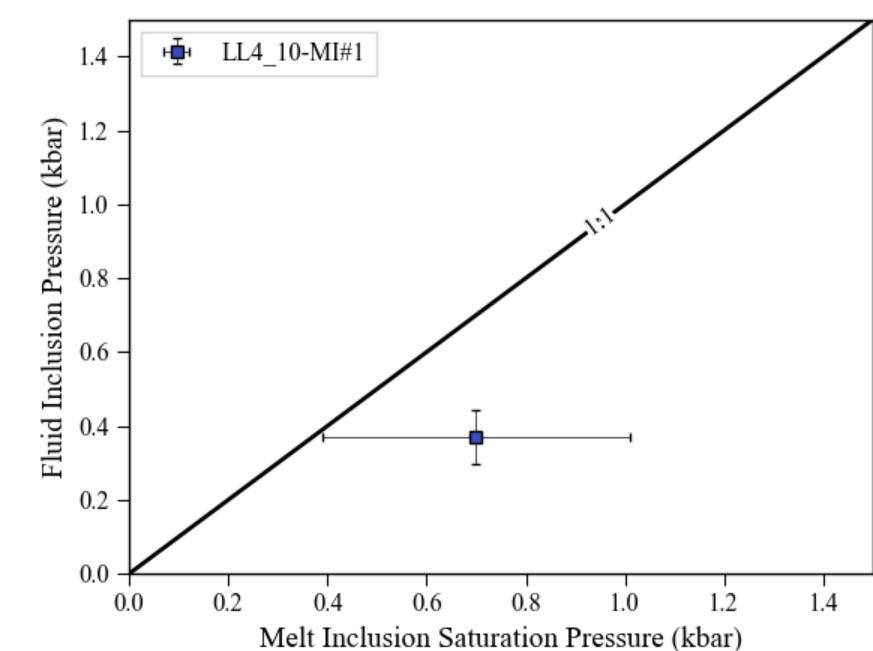


FI#1, nothing

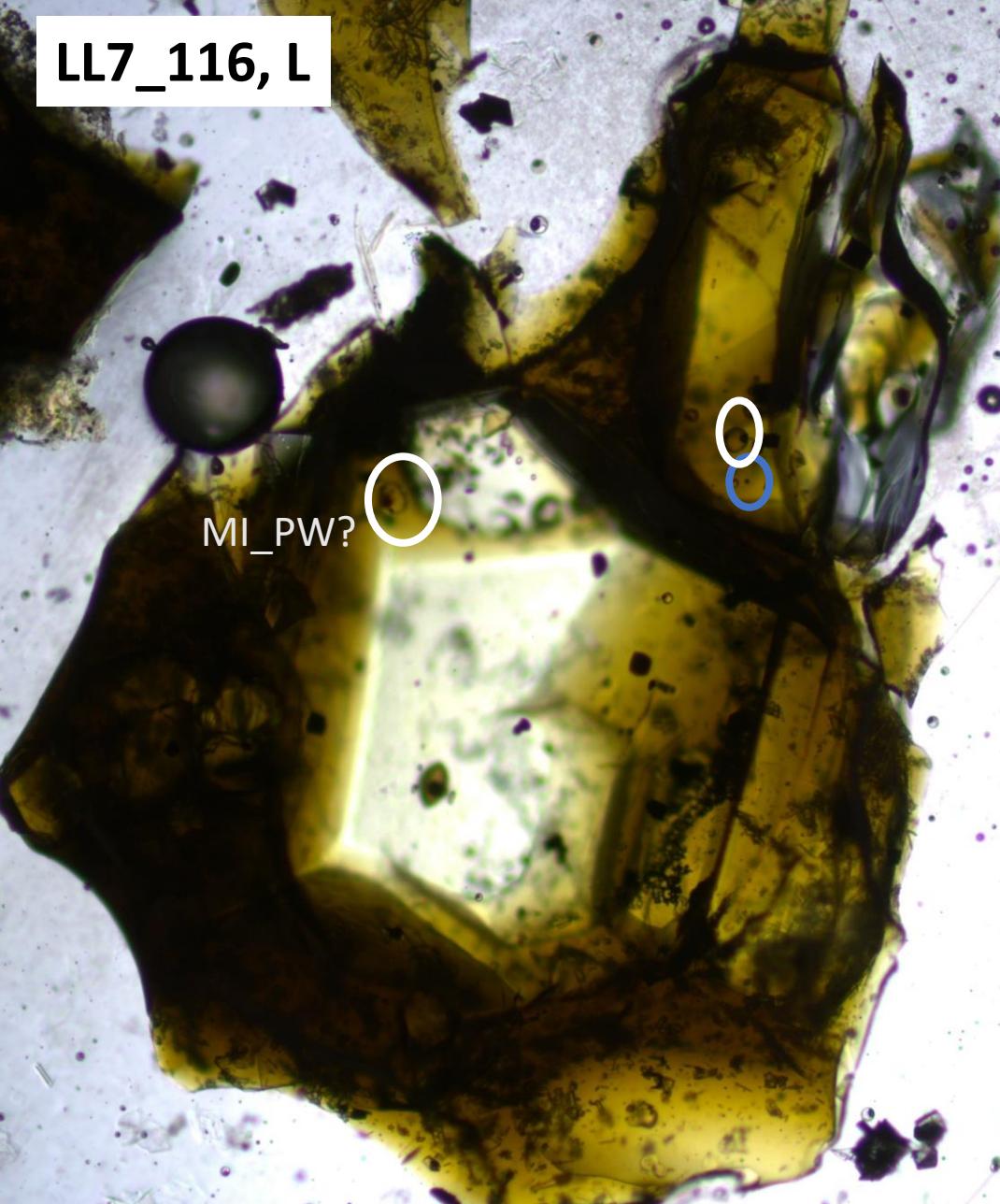
It has melt, but it could be related to the decrepitation of the big MI



UR



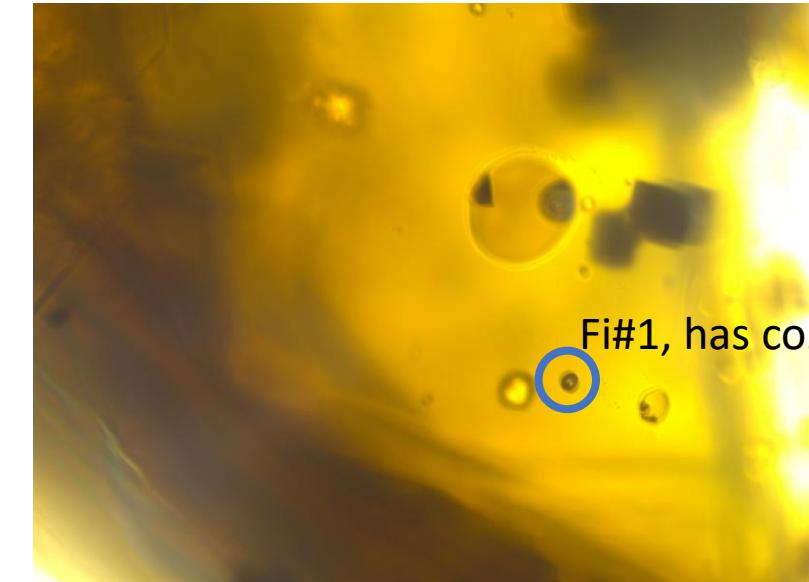
LL7_116, L



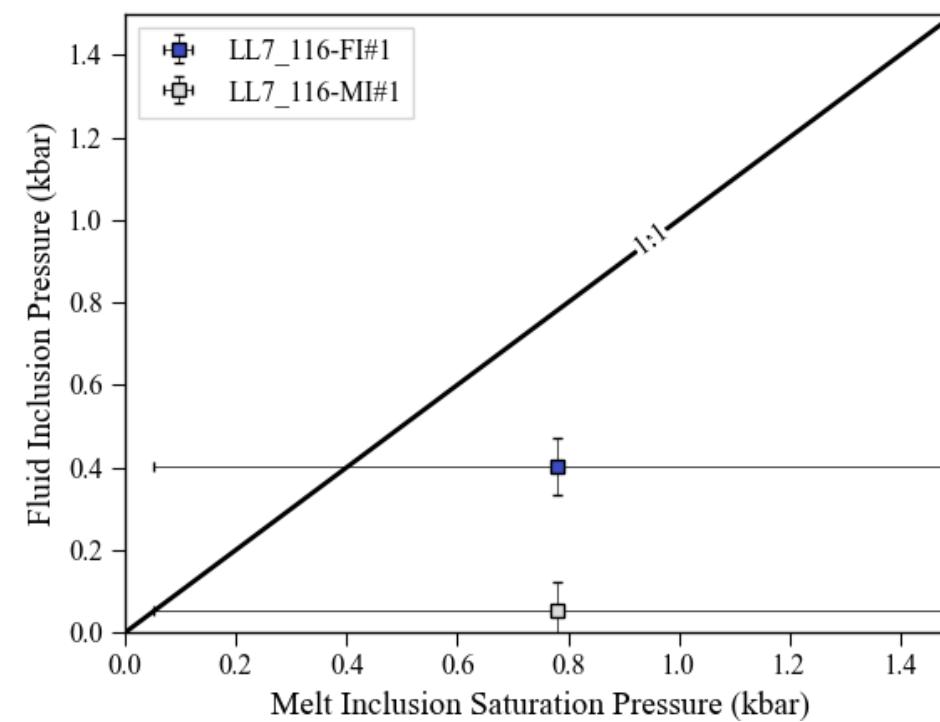
MI#1, has co₂



Fi#1, has co₂

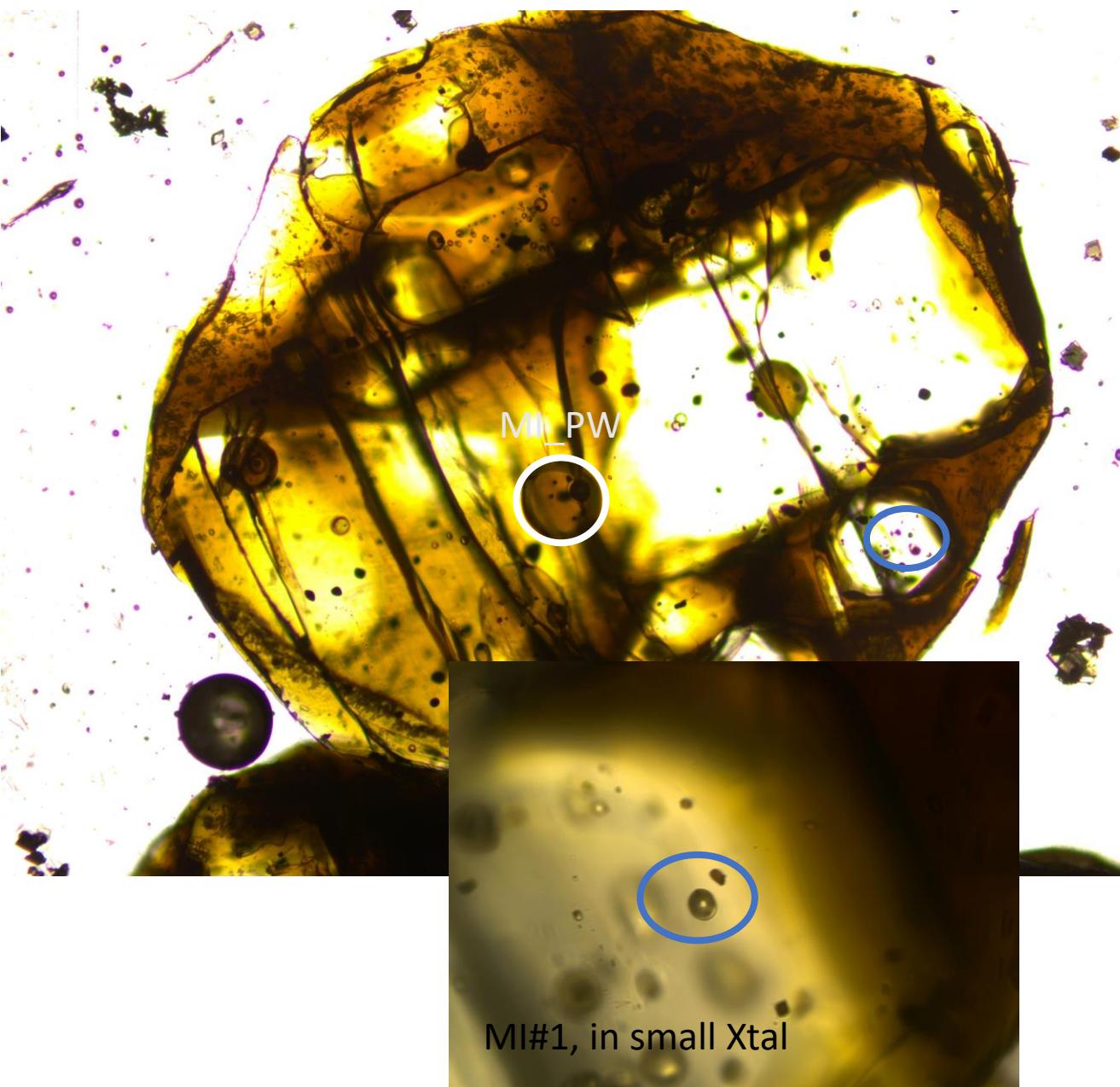


UR



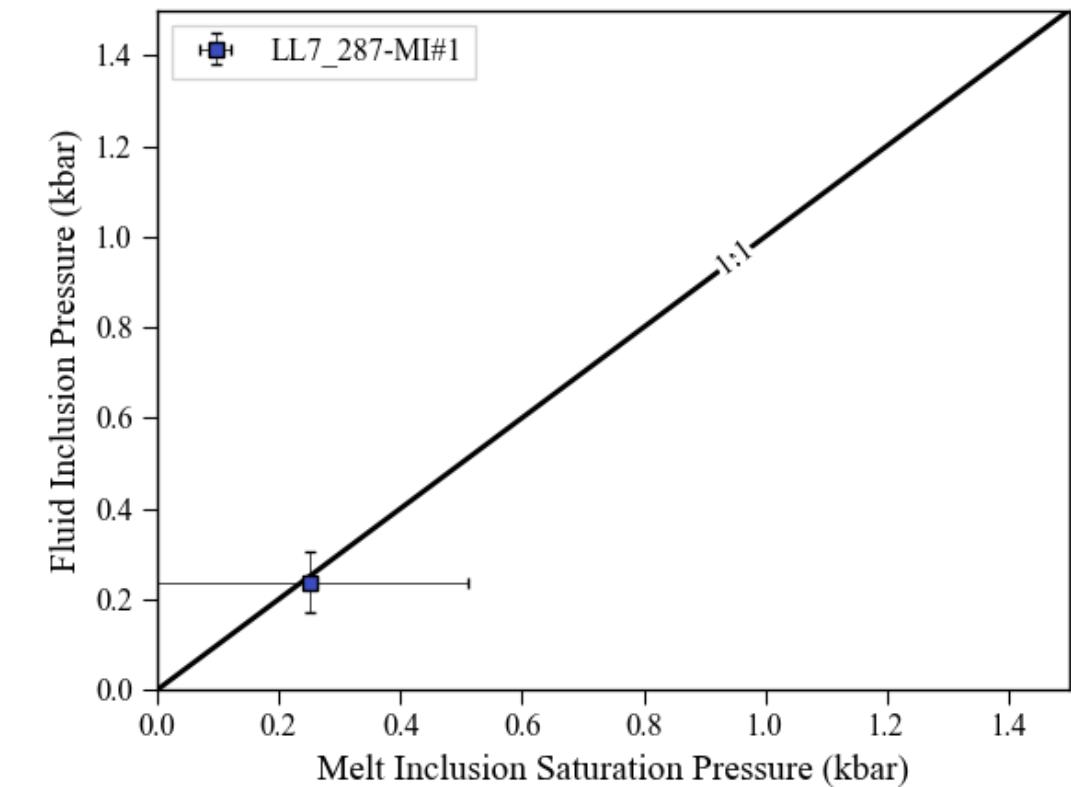
Separate xtal, doesn't work.

LL7_287, L



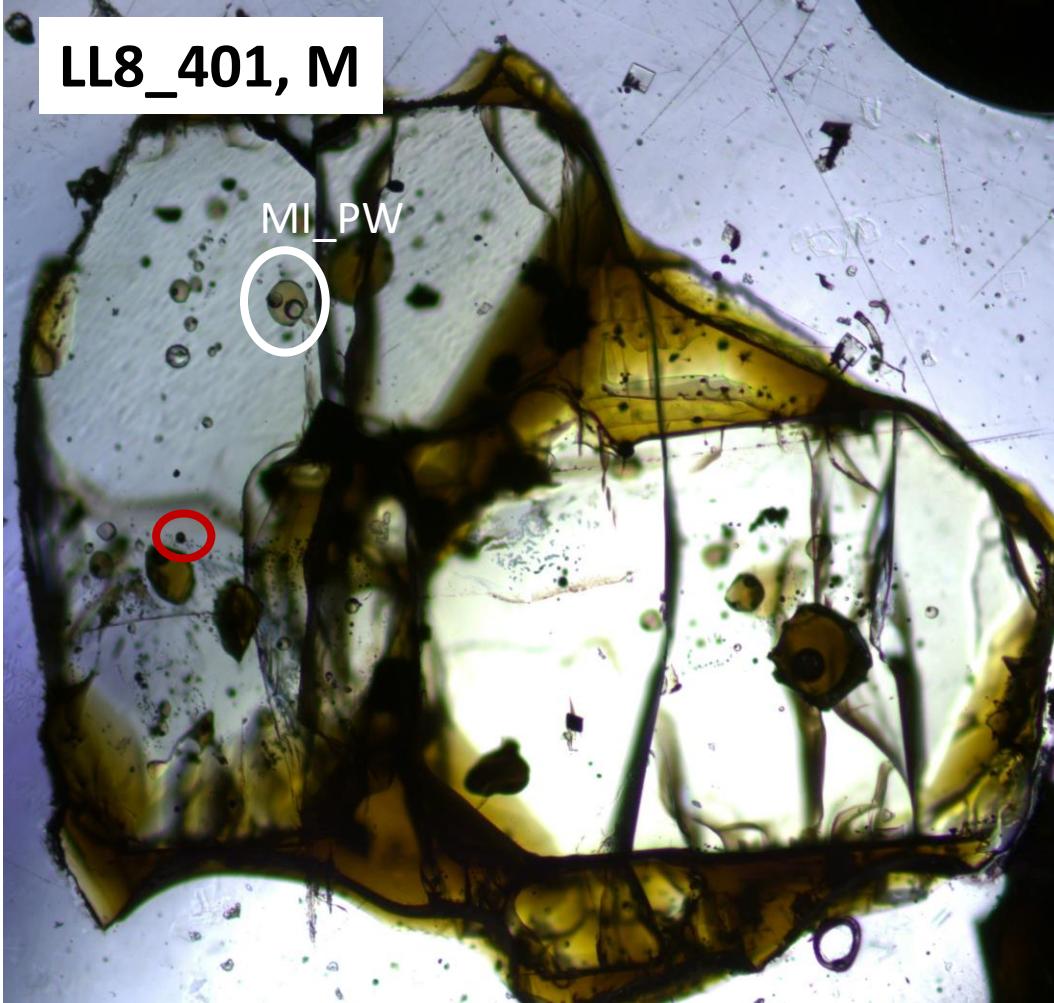
This one is the same, but
as in a subxtal, not
comparable, could be the
MI lost pressure at the
pressure at which this
one was trapped.

UR

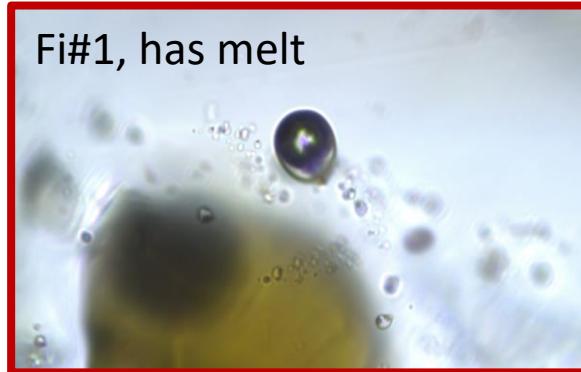


LL8_401, M

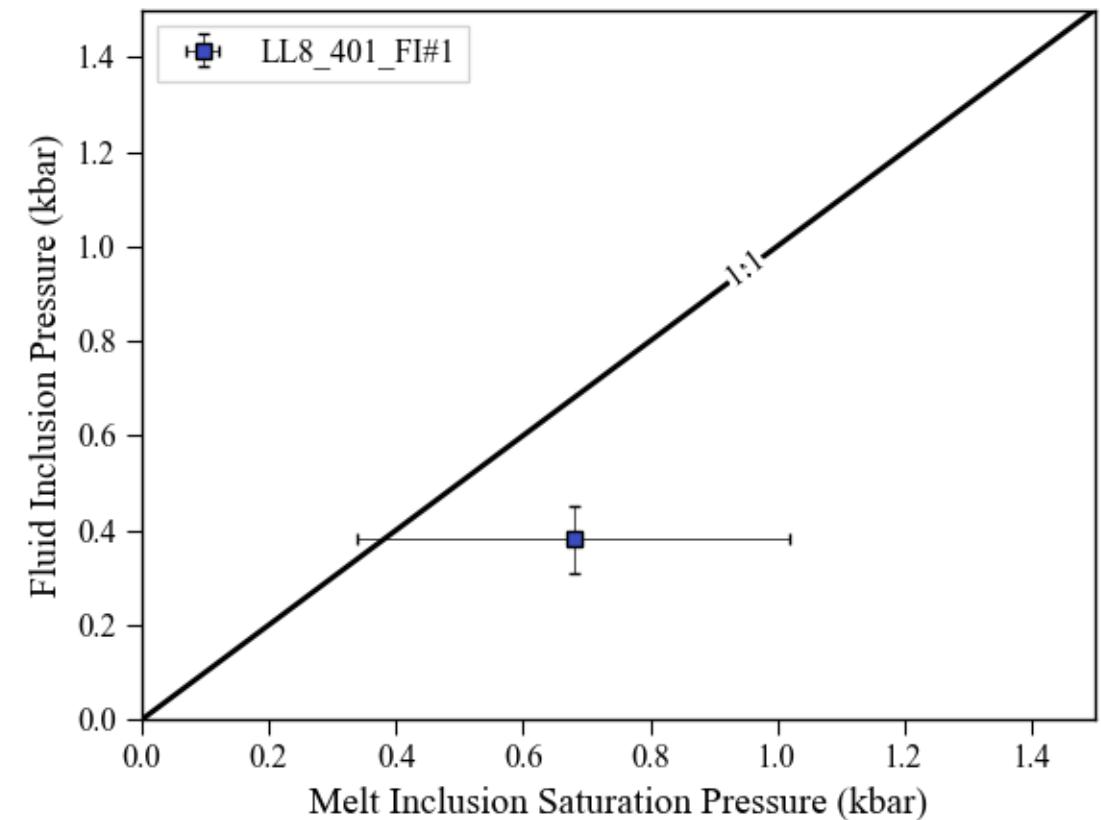
UR



Fi#1, has melt

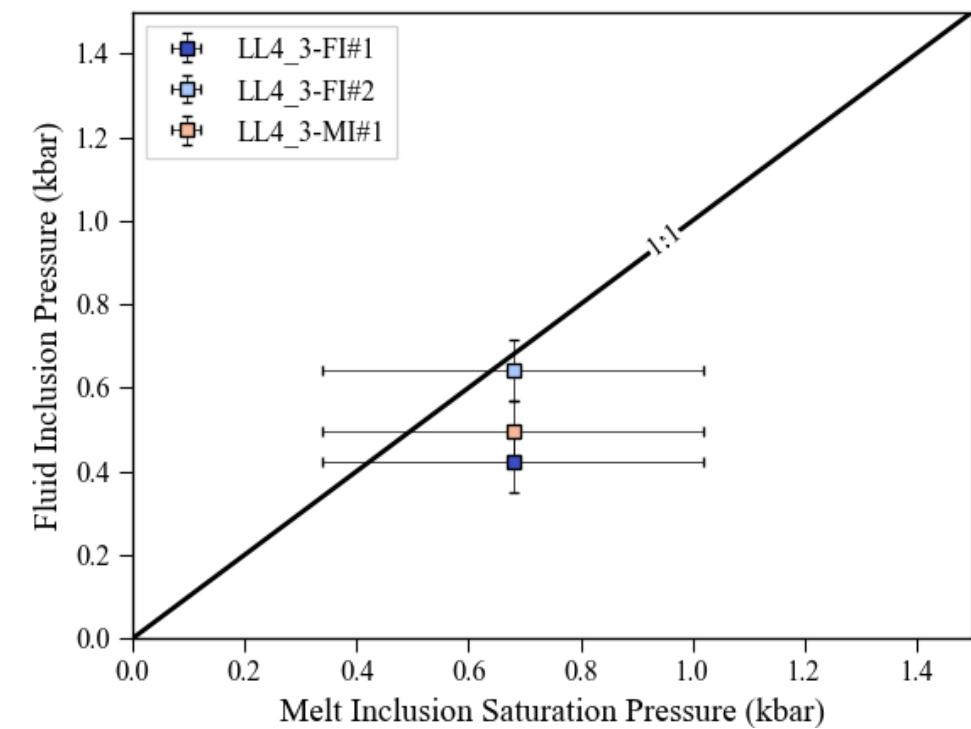
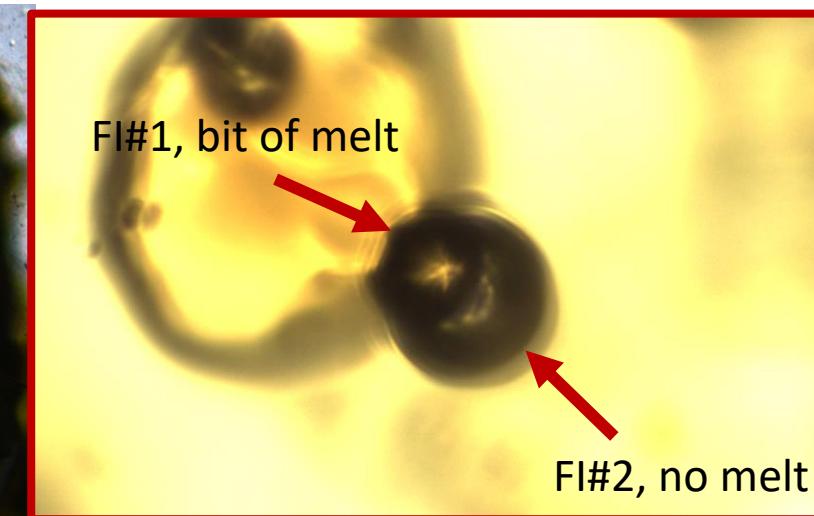
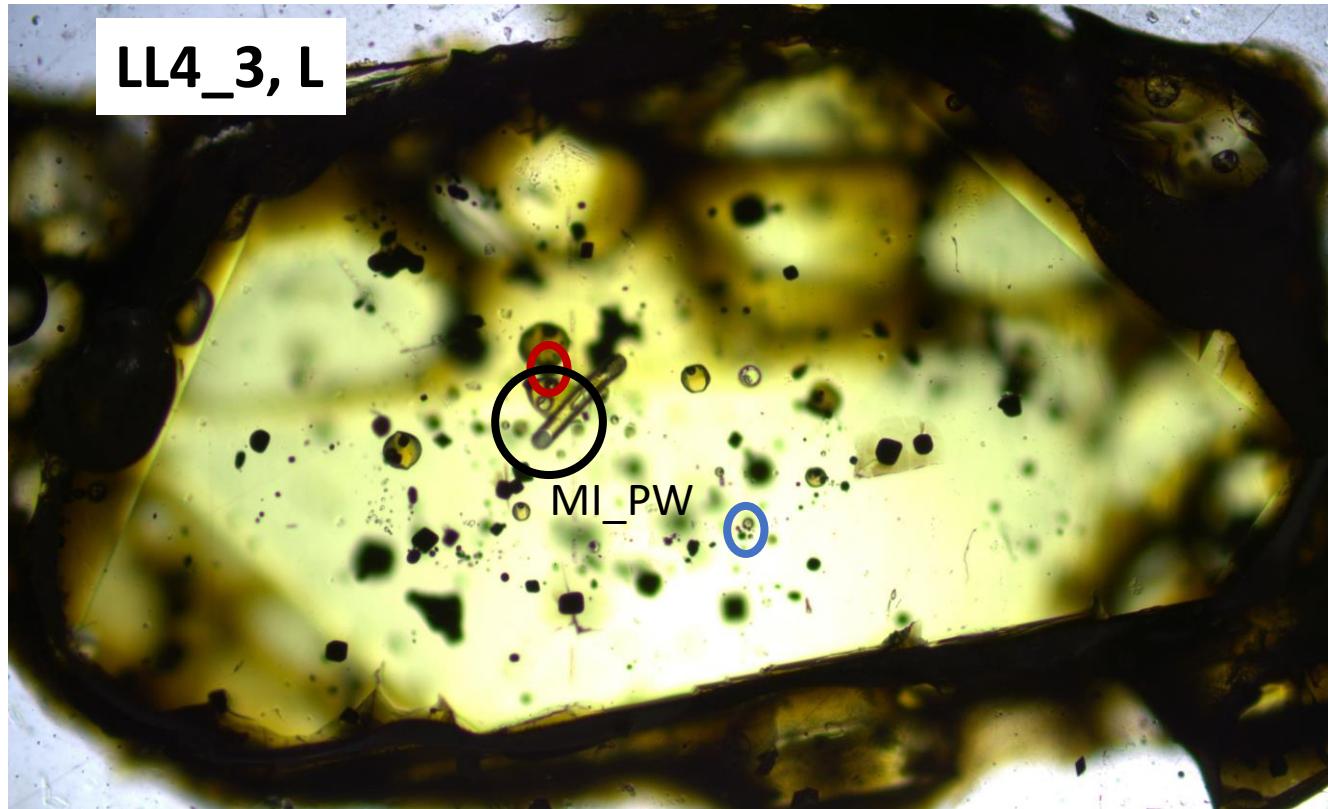


Unclear if it is in a bud or same crystal, may also be related to larger MI around it. Has melt

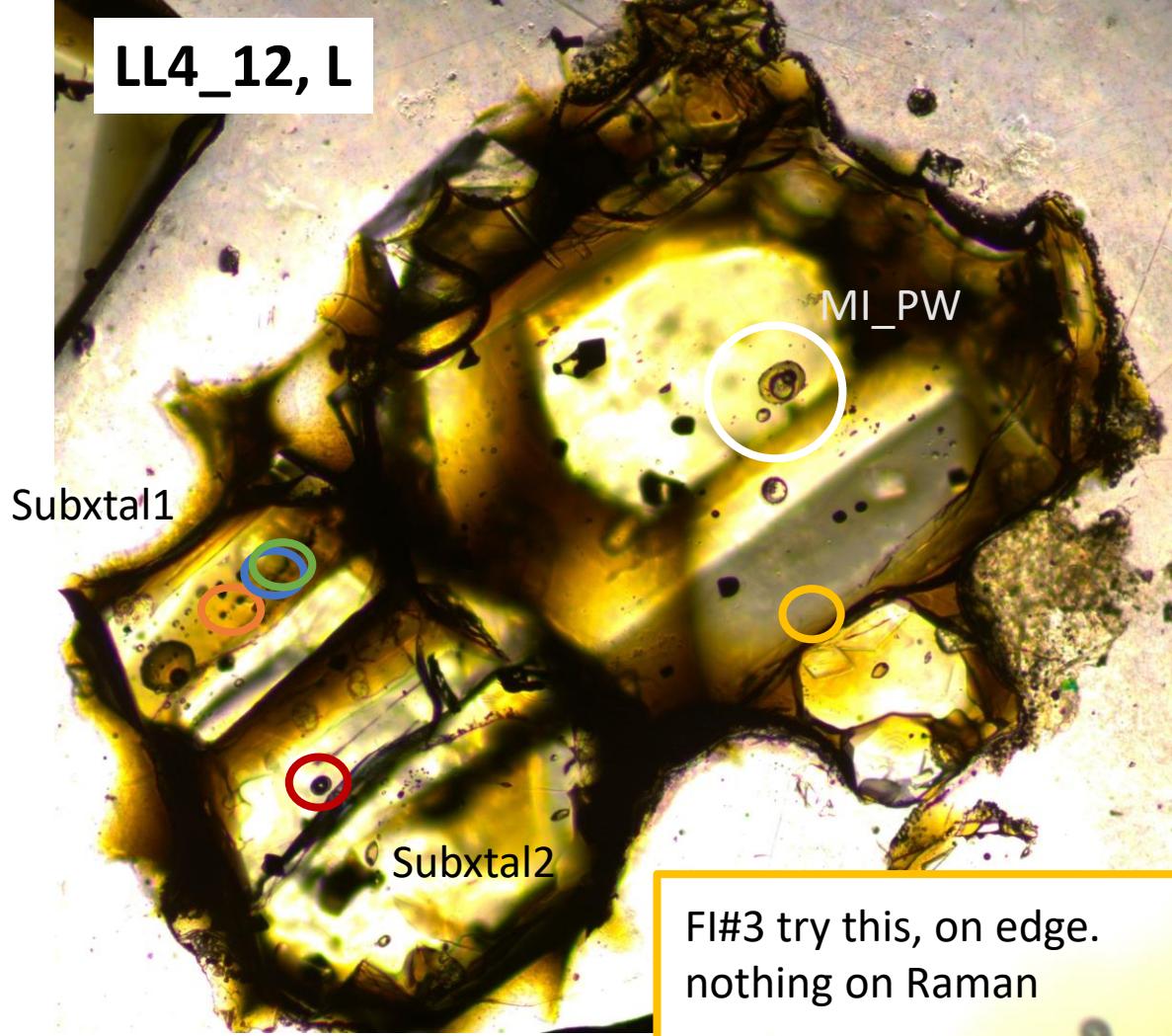


**This section depicts fluid inclusions with variable amounts of silicate melt attached,
For more information consult the supplementary information section 3.**

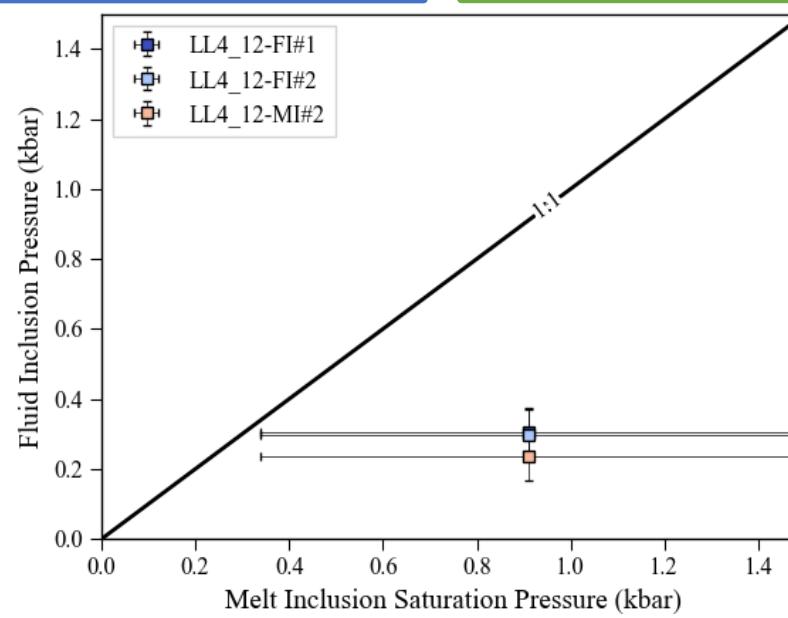
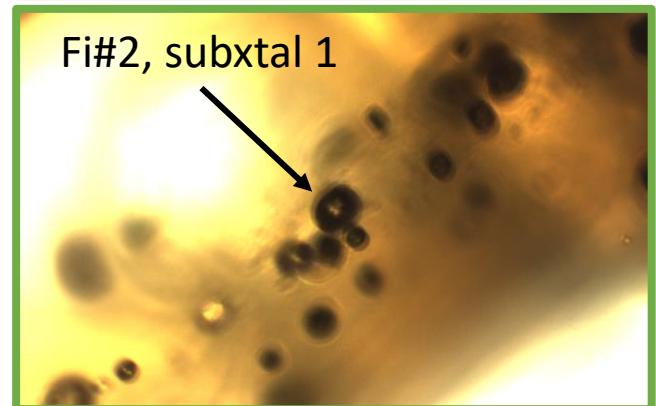
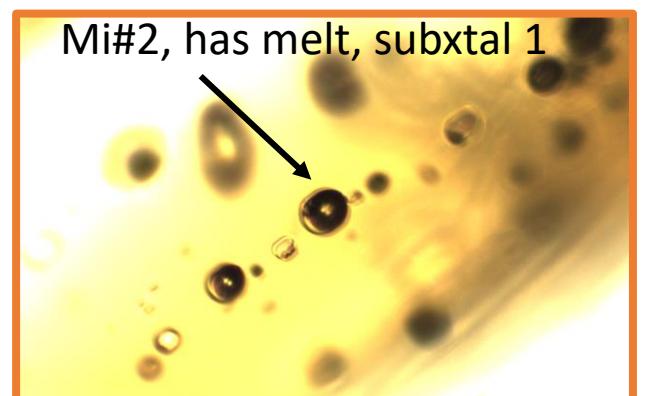
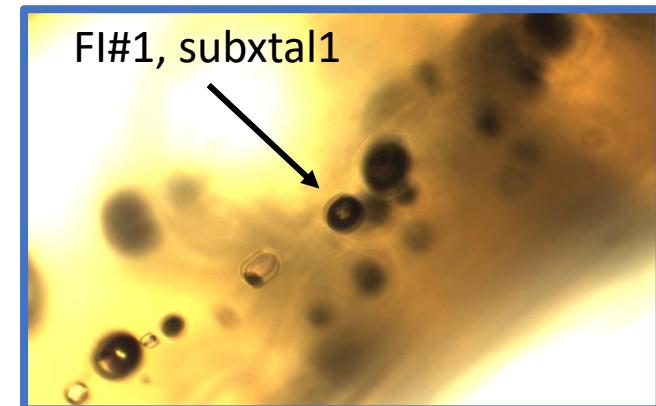
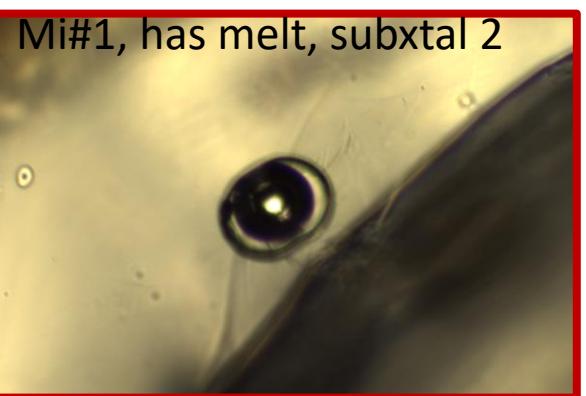
LL4_3, L



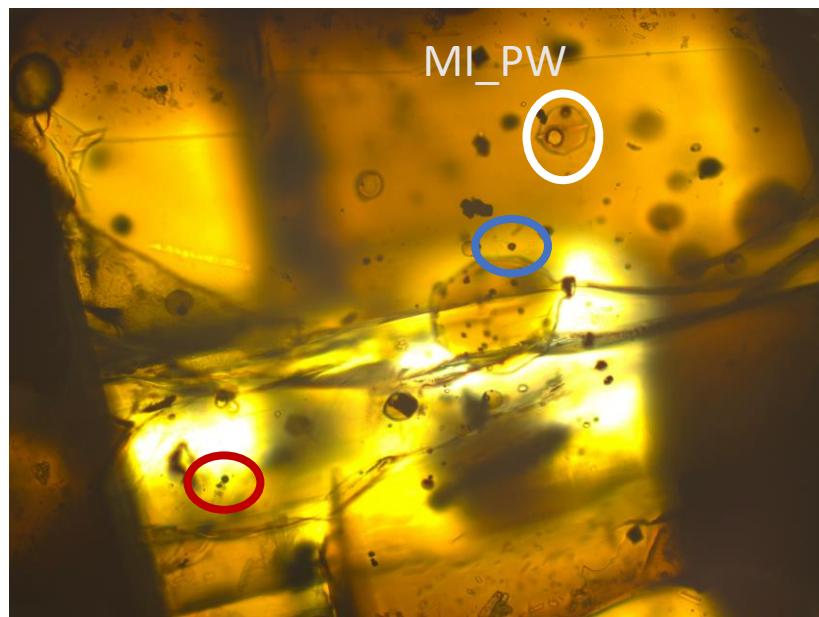
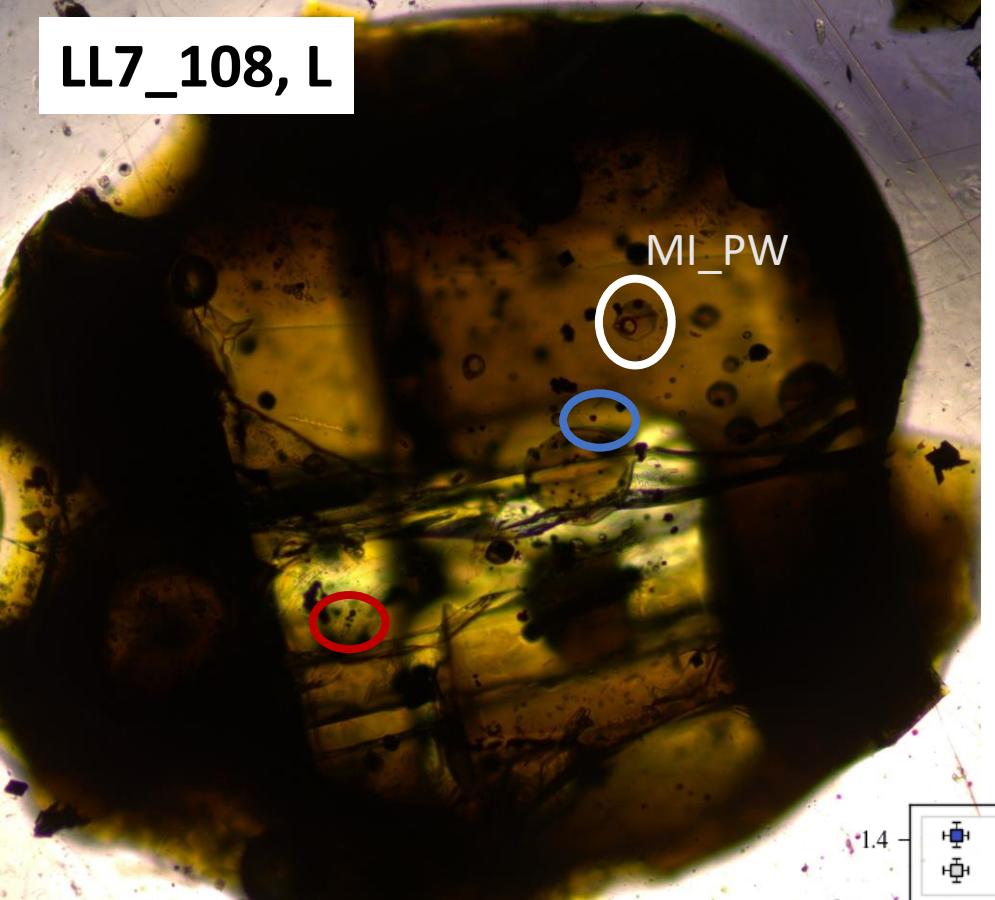
LL4_12, L



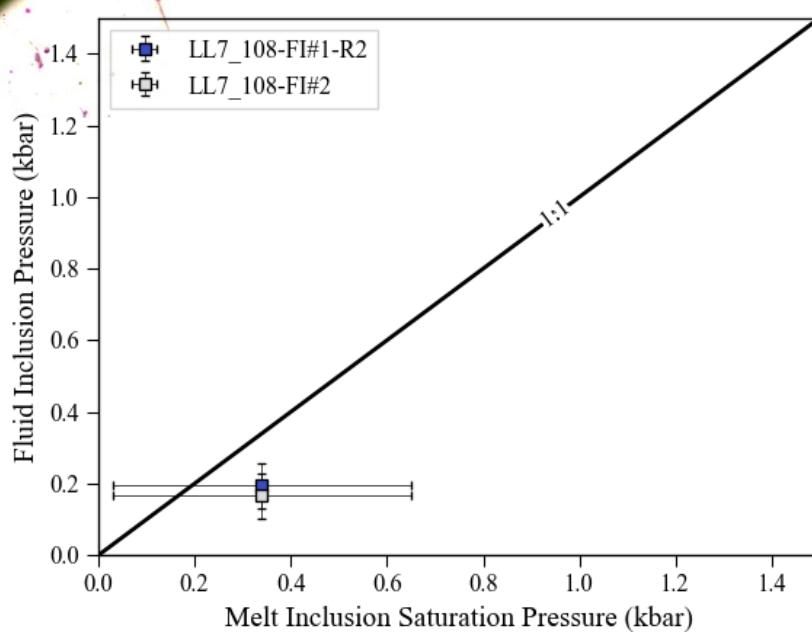
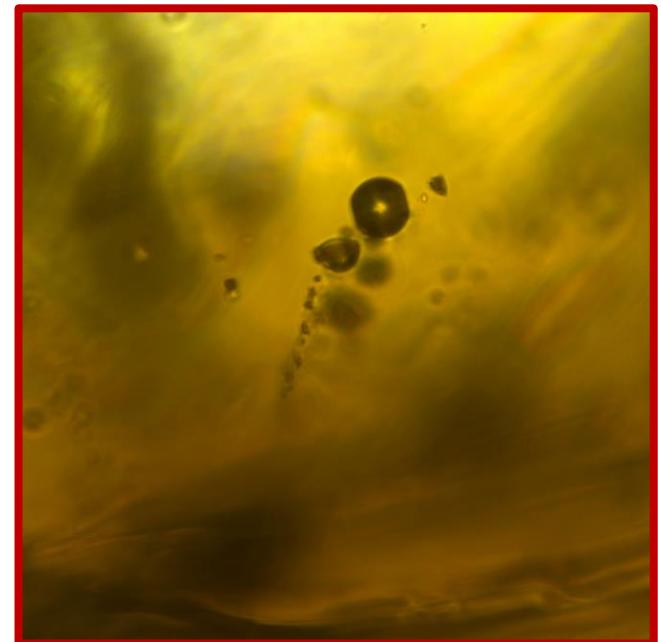
FI#3 try this, on edge.
nothing on Raman



LL7_108, L



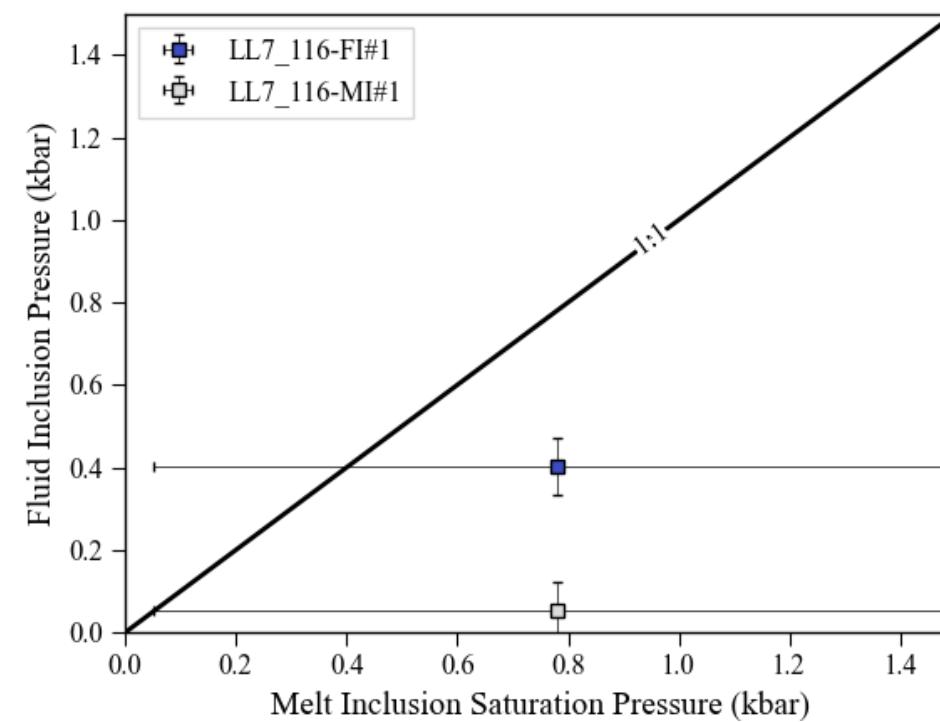
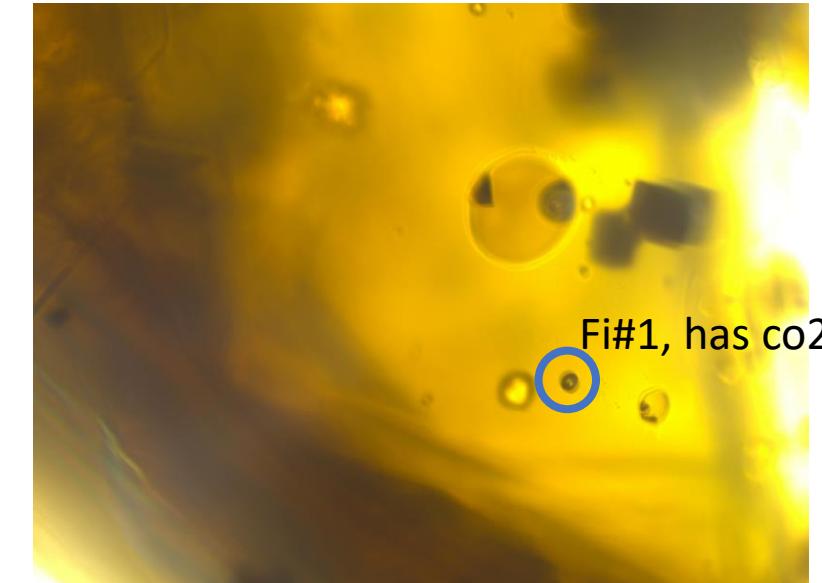
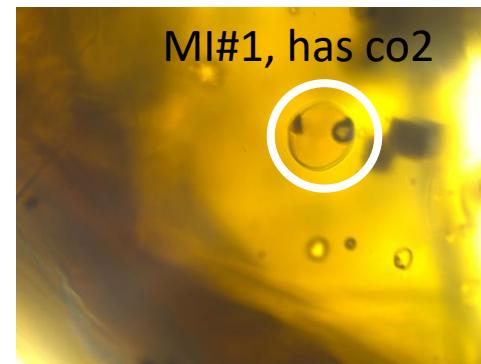
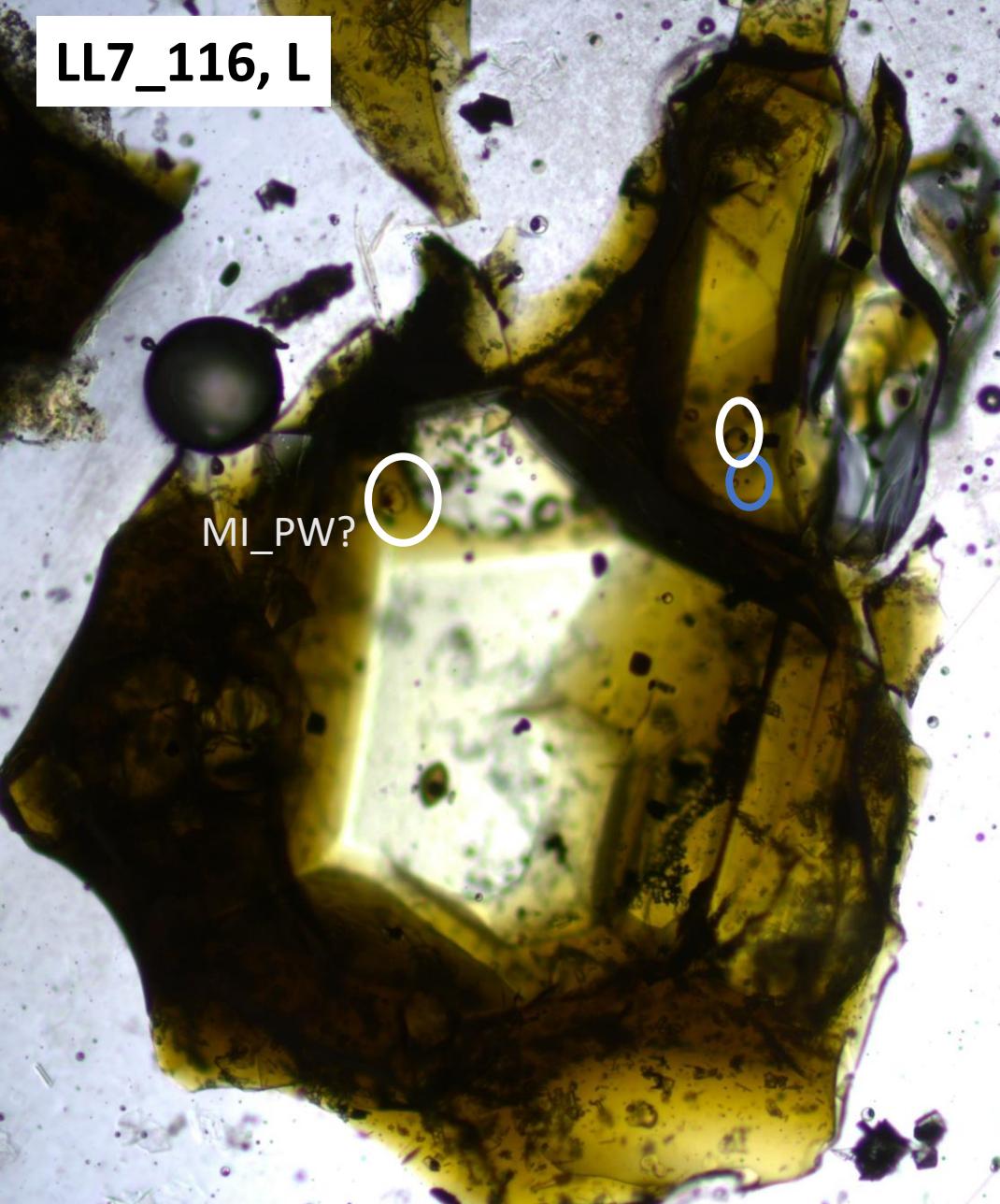
Fi#1, on a trail PS?



Fi#2, Same xtal, on edge

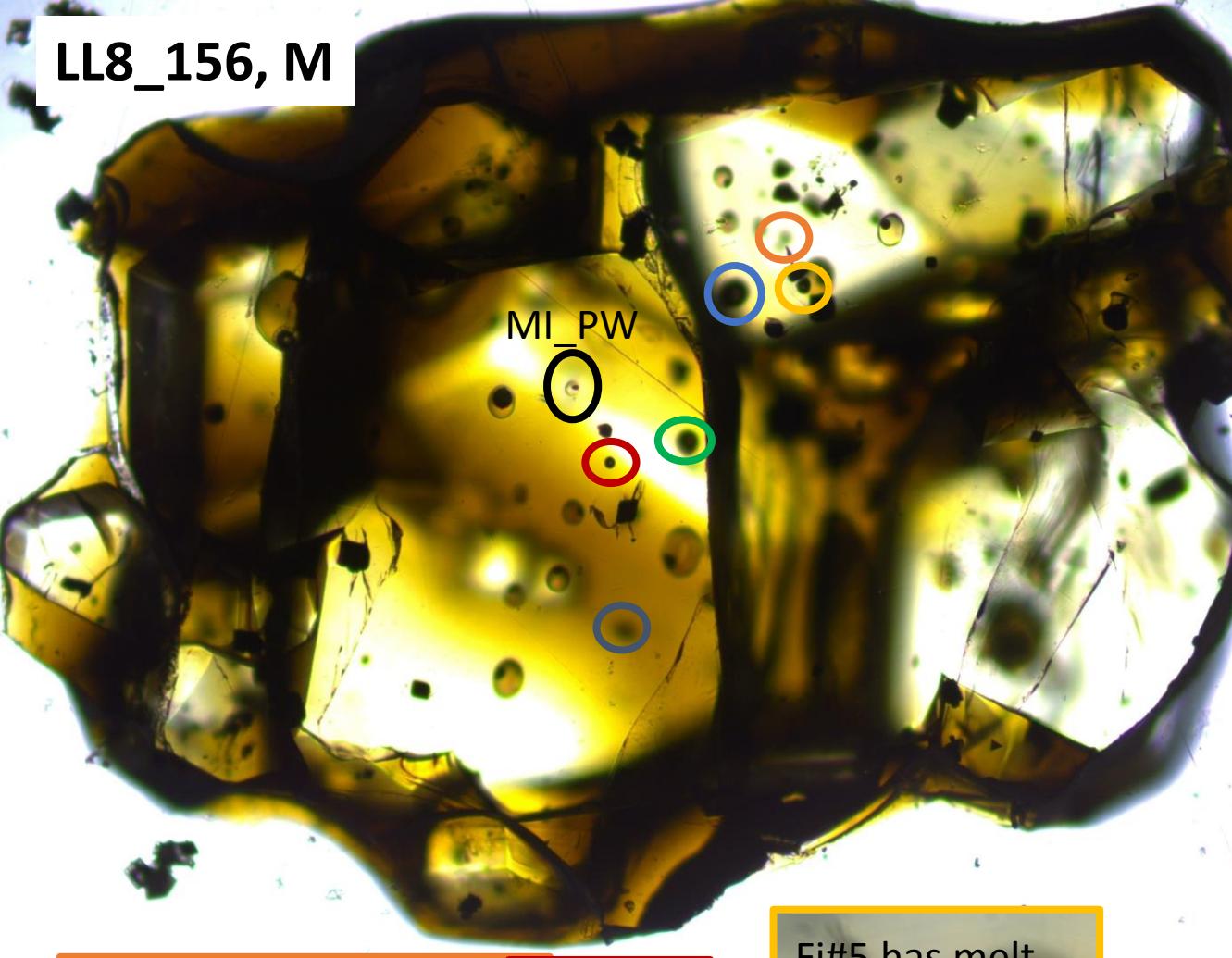


LL7_116, L

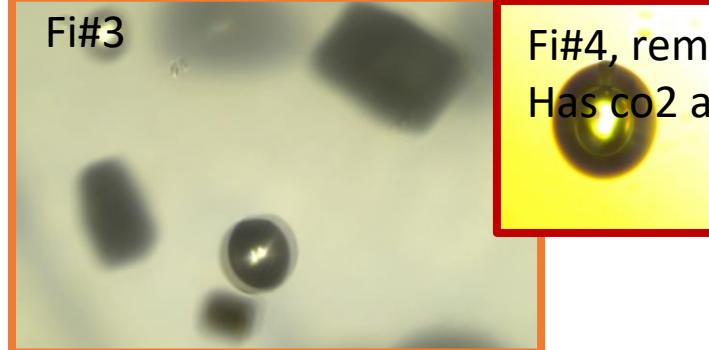


Separate xtal, but the FI and MI in same crystal, so could try the PEC thing

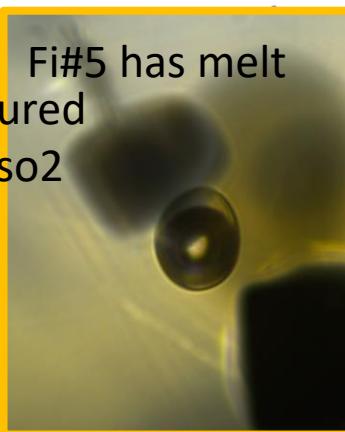
LL8_156, M



Fi#3

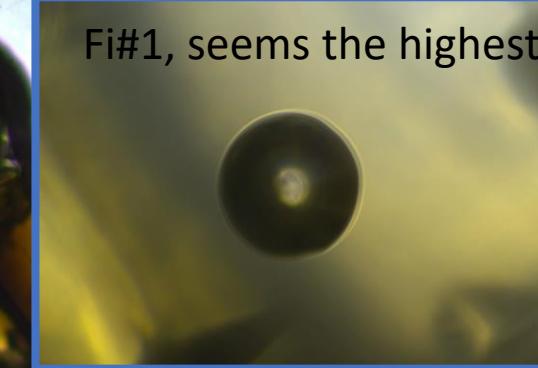


Fi#4, remeasured
Has co₂ and so₂



Fi#5 has melt

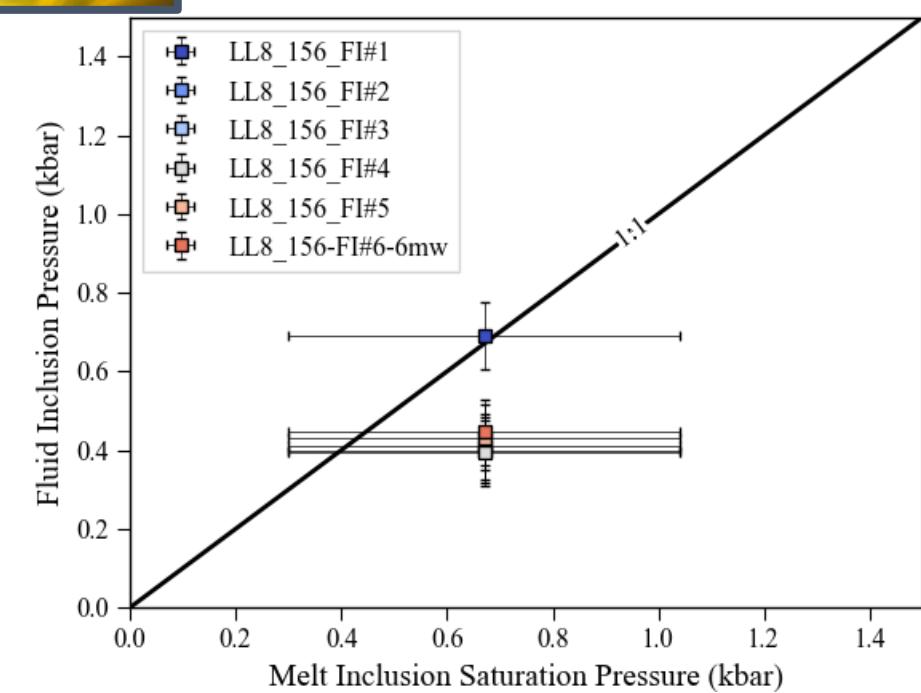
Fi#1, seems the highest



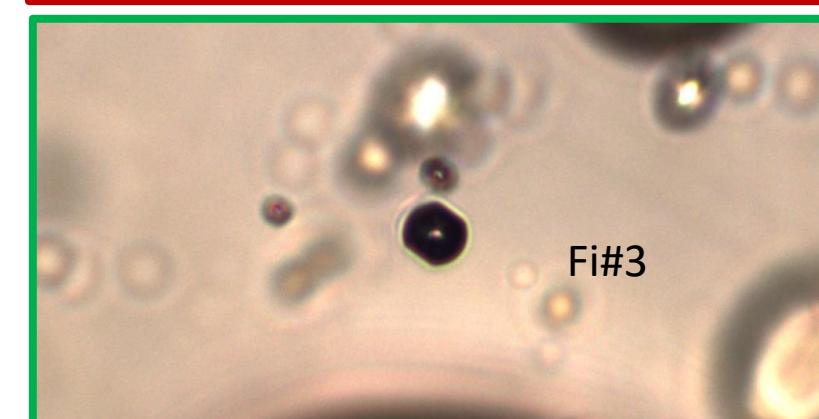
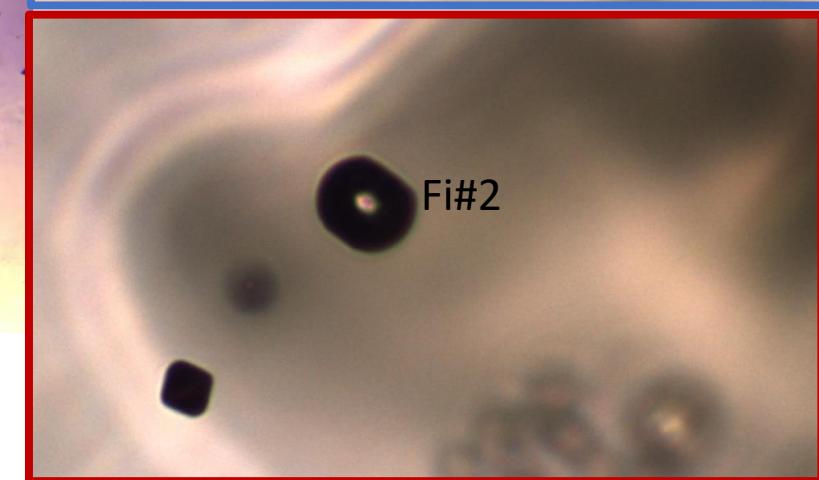
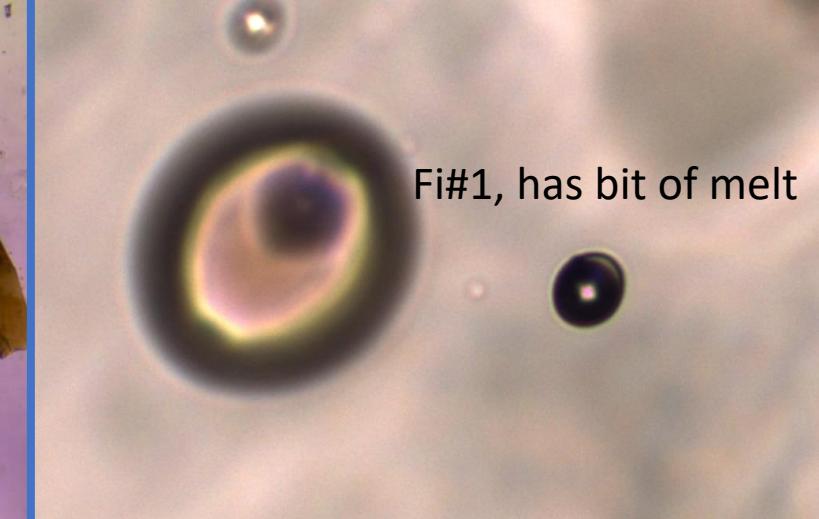
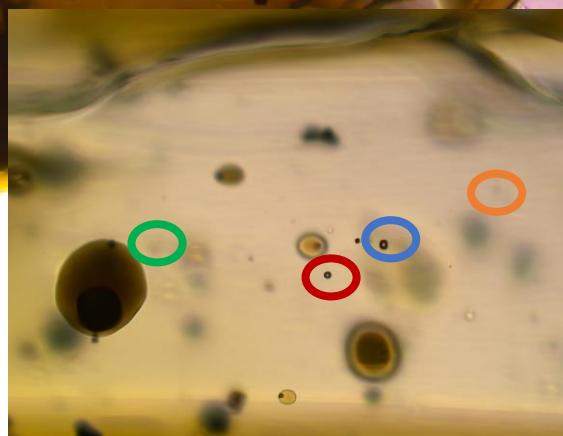
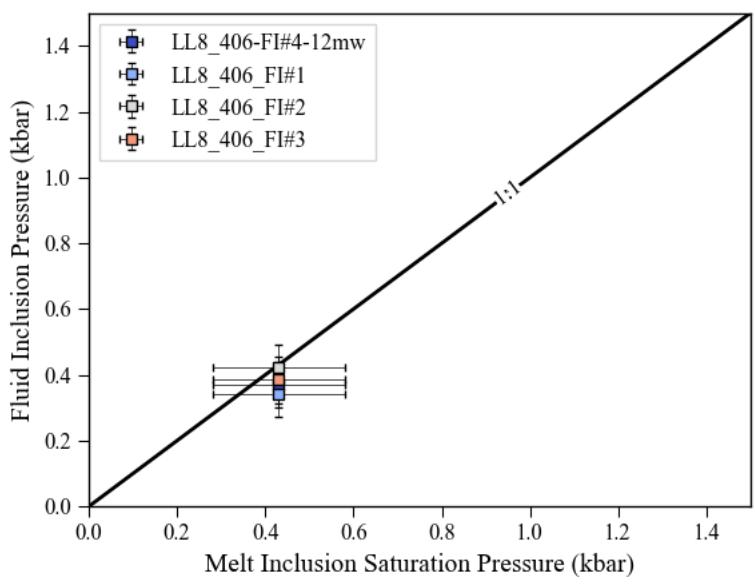
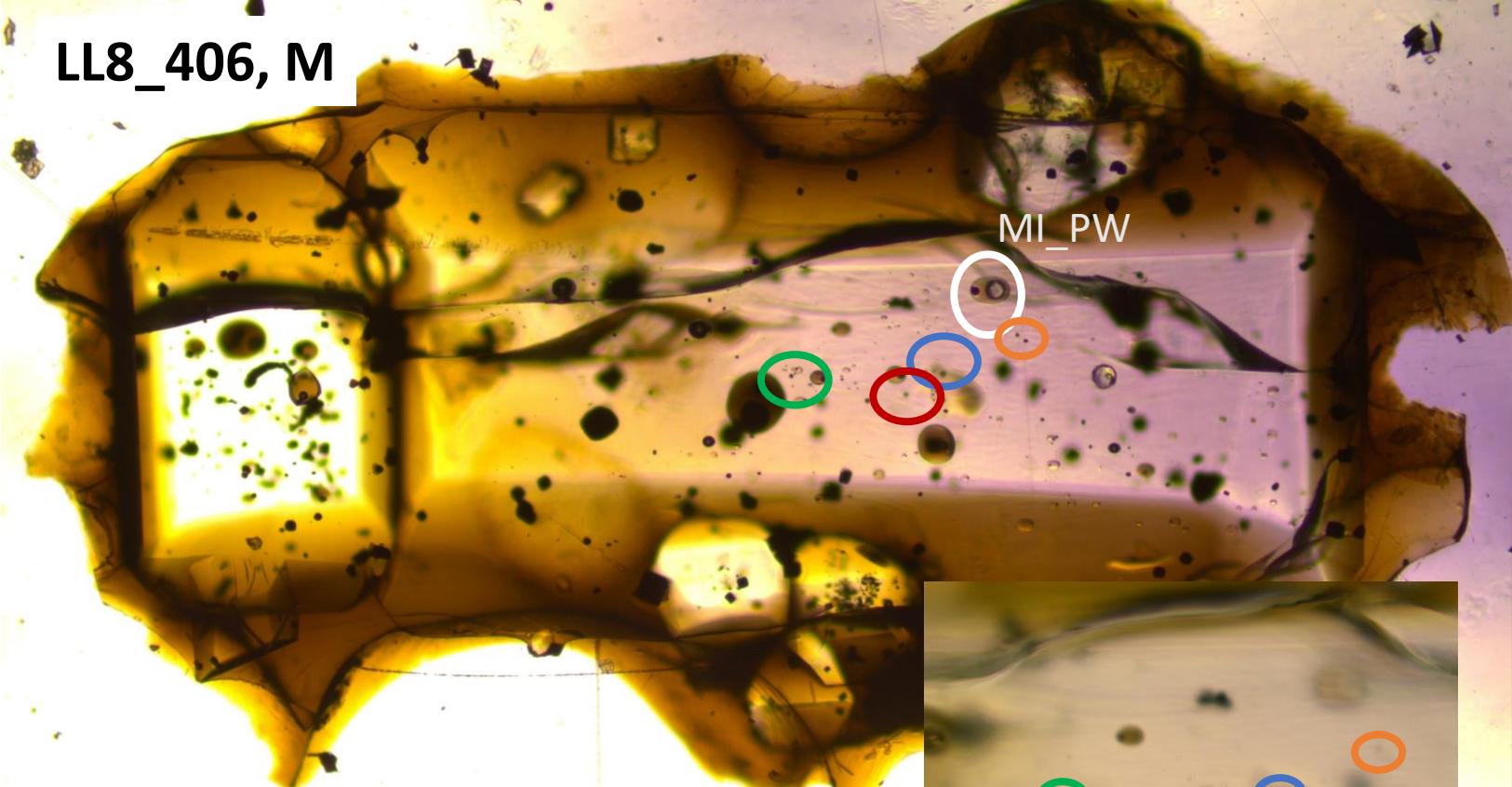
Fi#6 – has co₂ and so₂



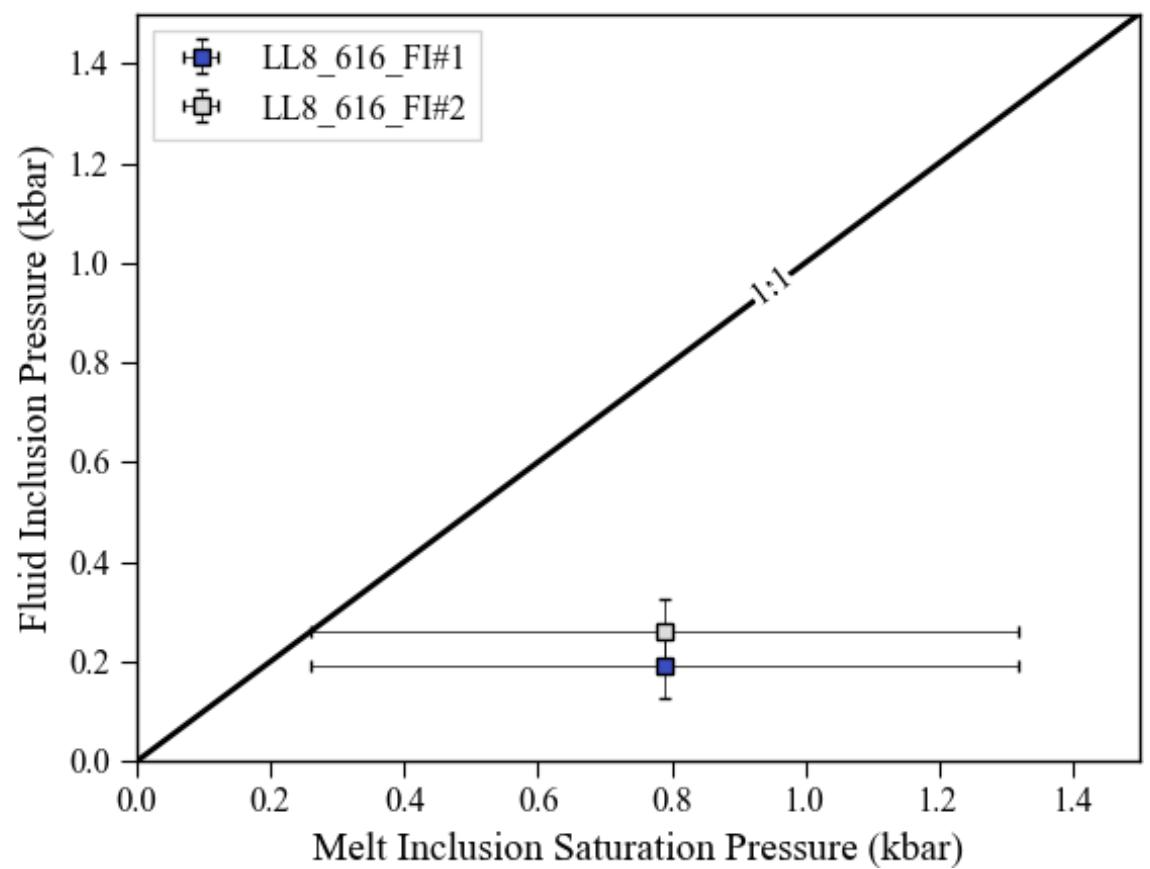
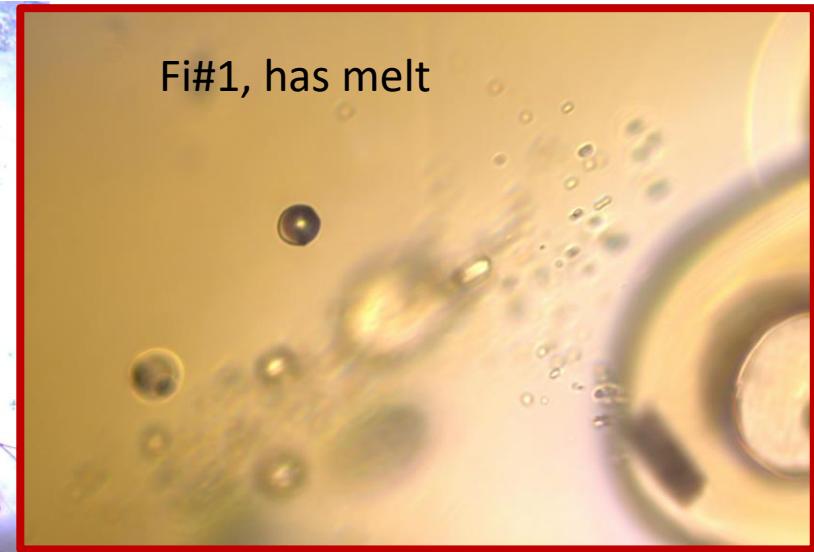
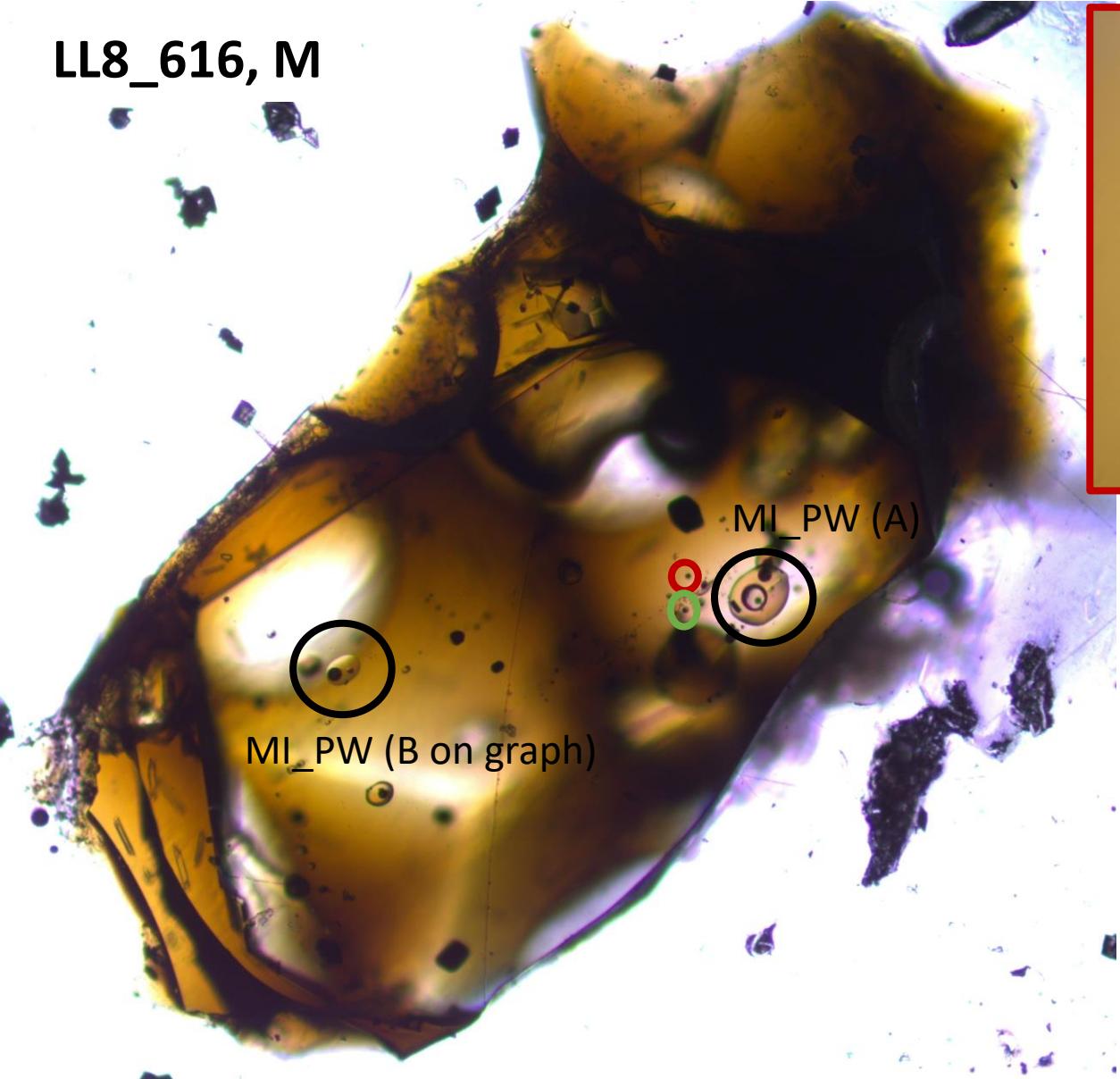
Fi#2- remeasured in Apr23
Has co₂ and so₂



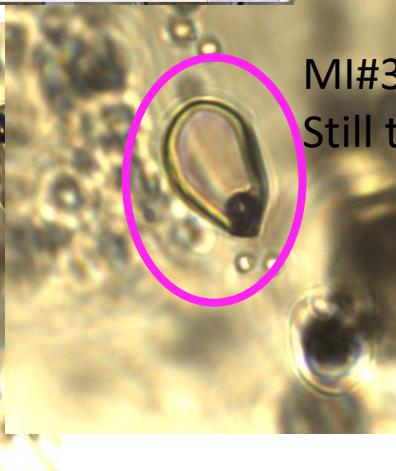
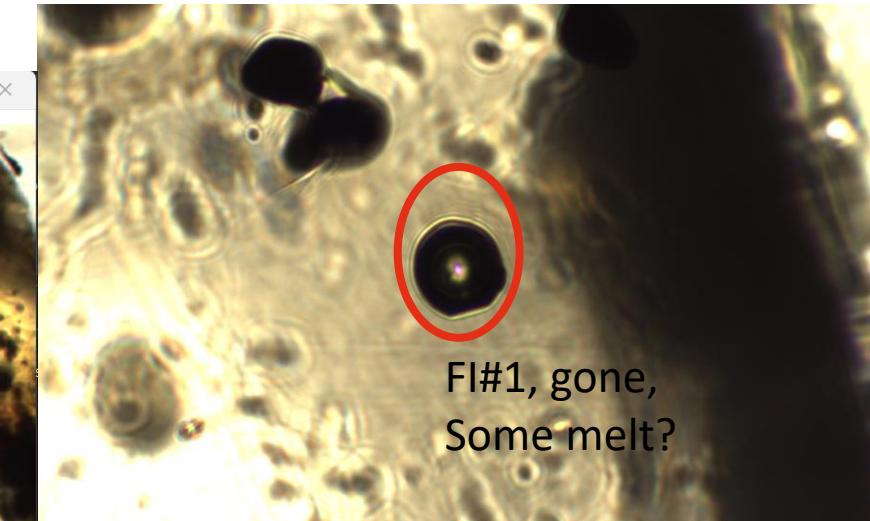
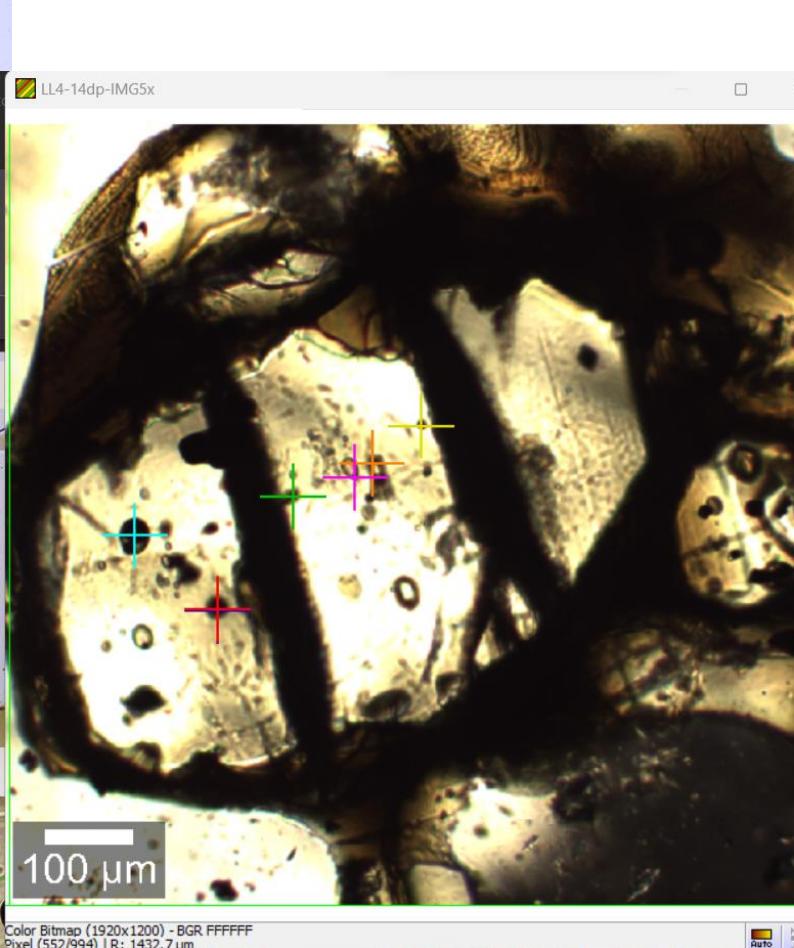
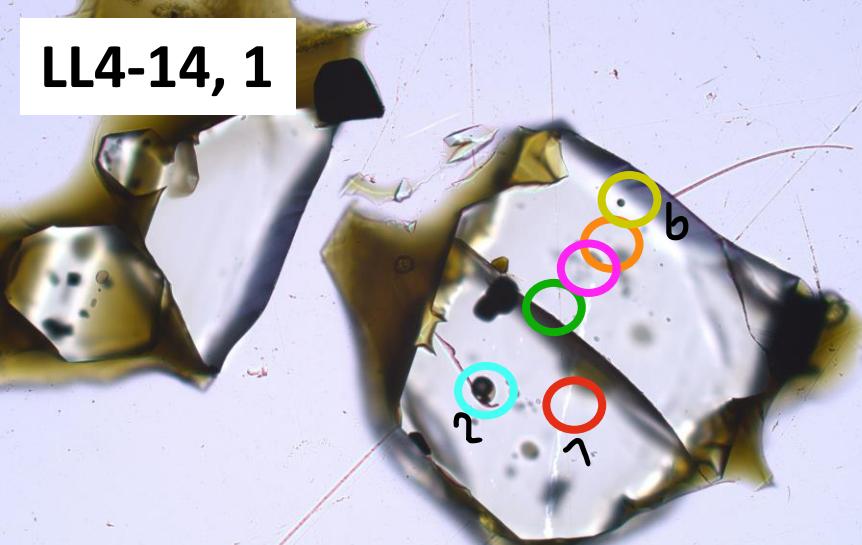
LL8_406, M



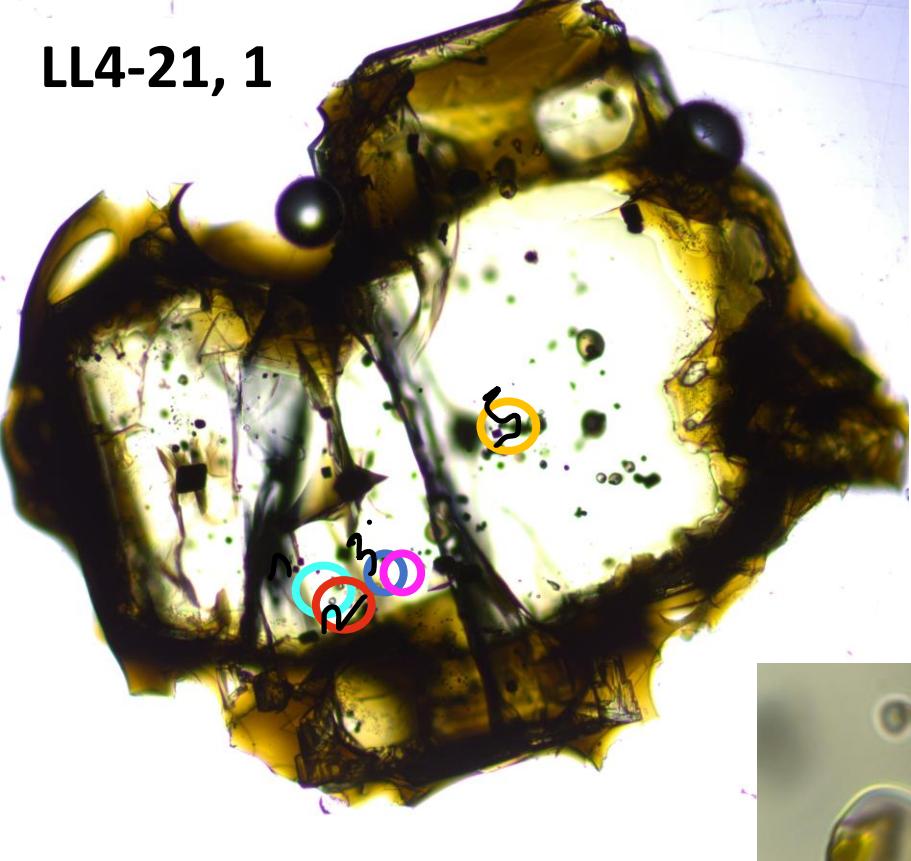
LL8_616, M



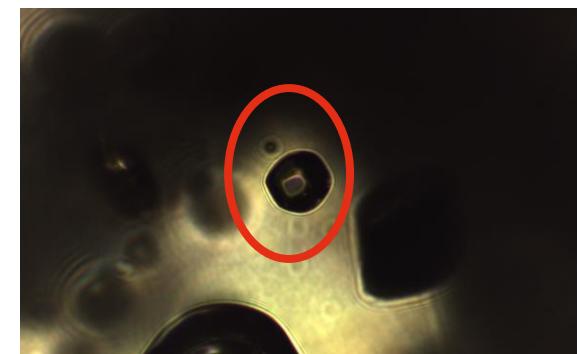
LL4-14, 1



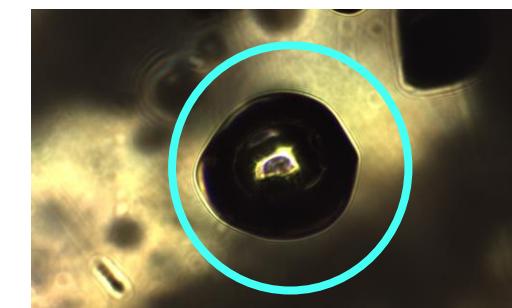
LL4-21, 1



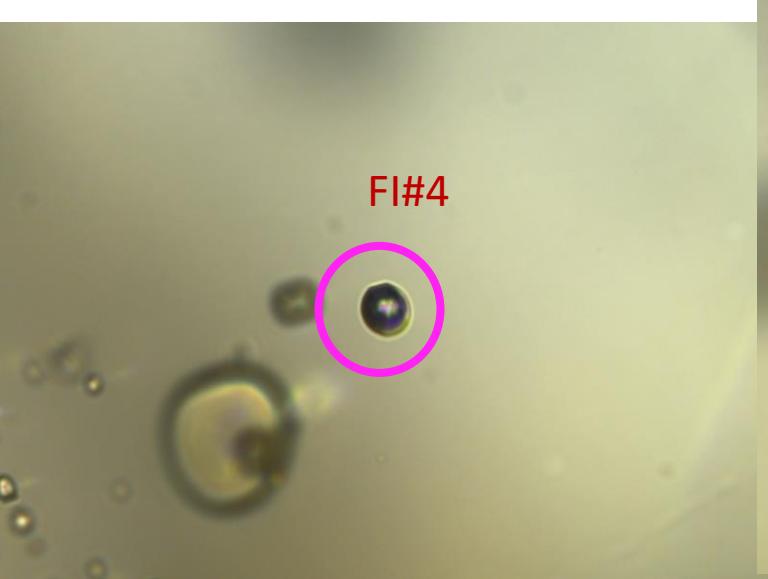
FI#2, gone



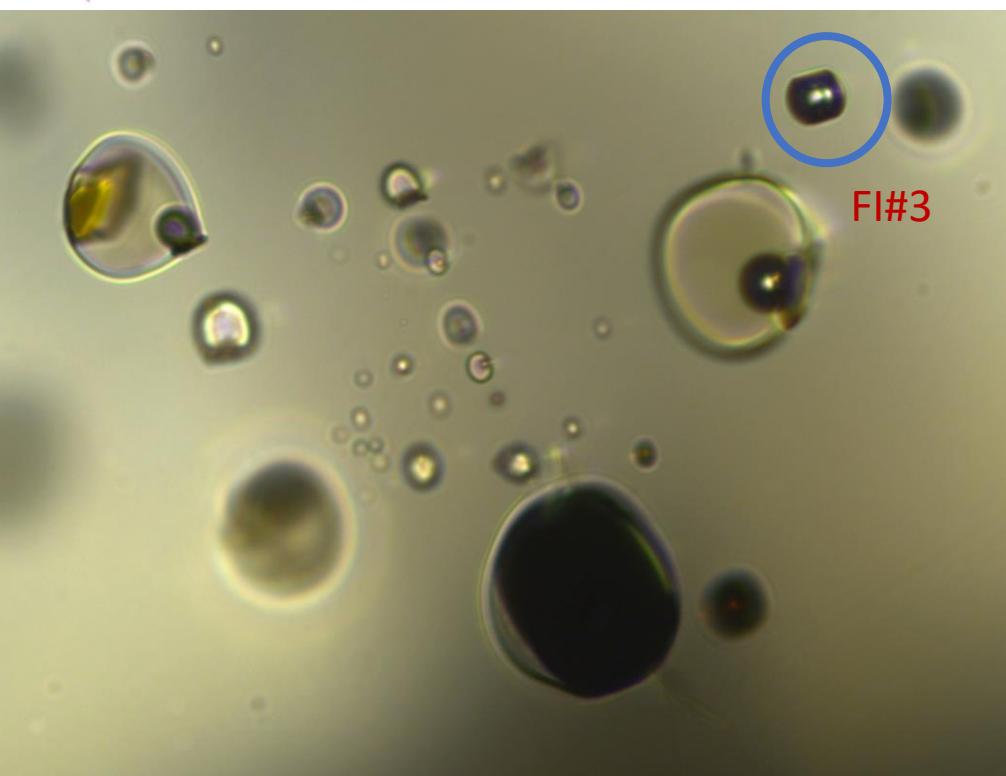
FI#1, gone,
Some melt



FI#4



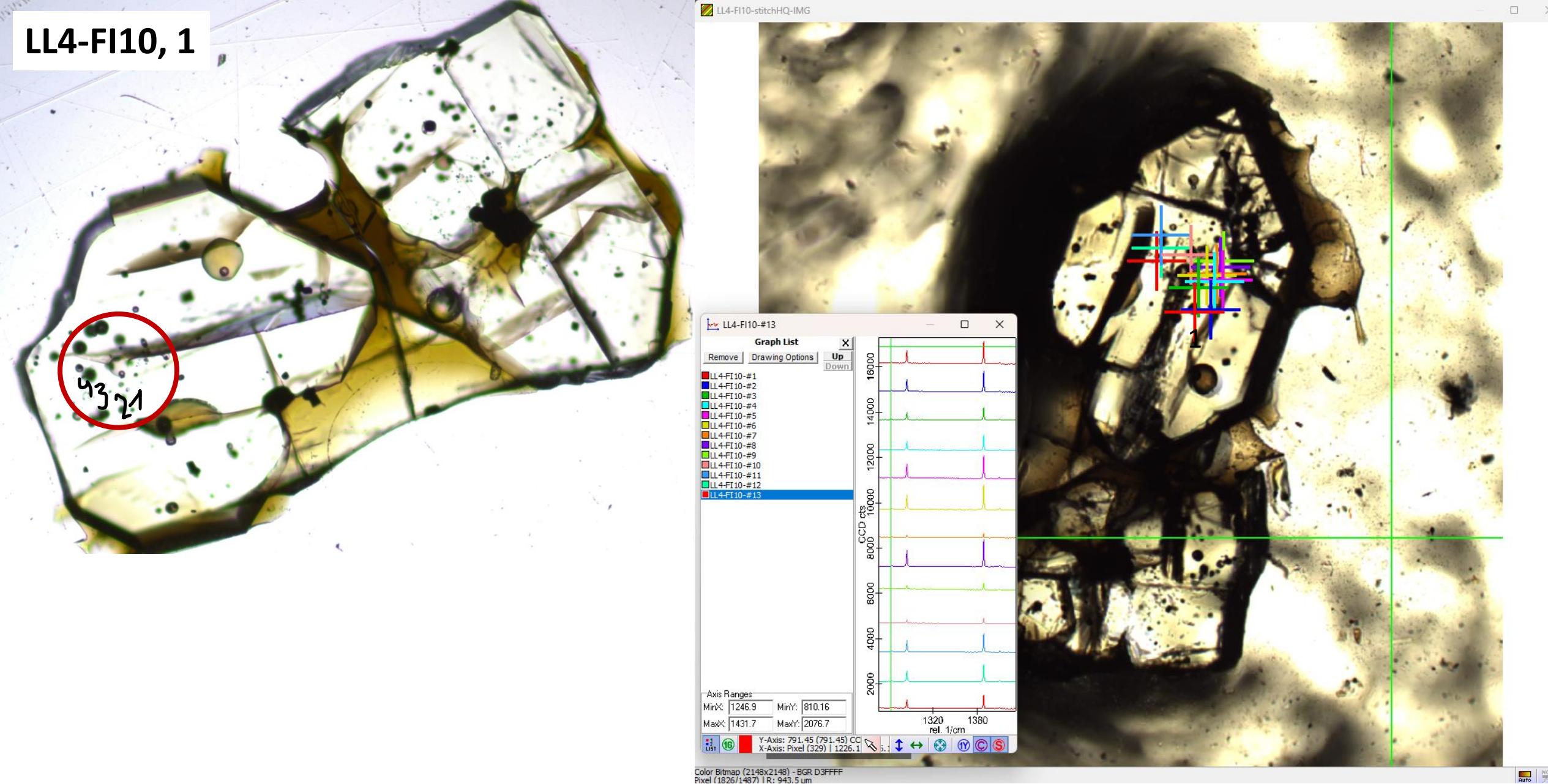
FI#3



FI#5

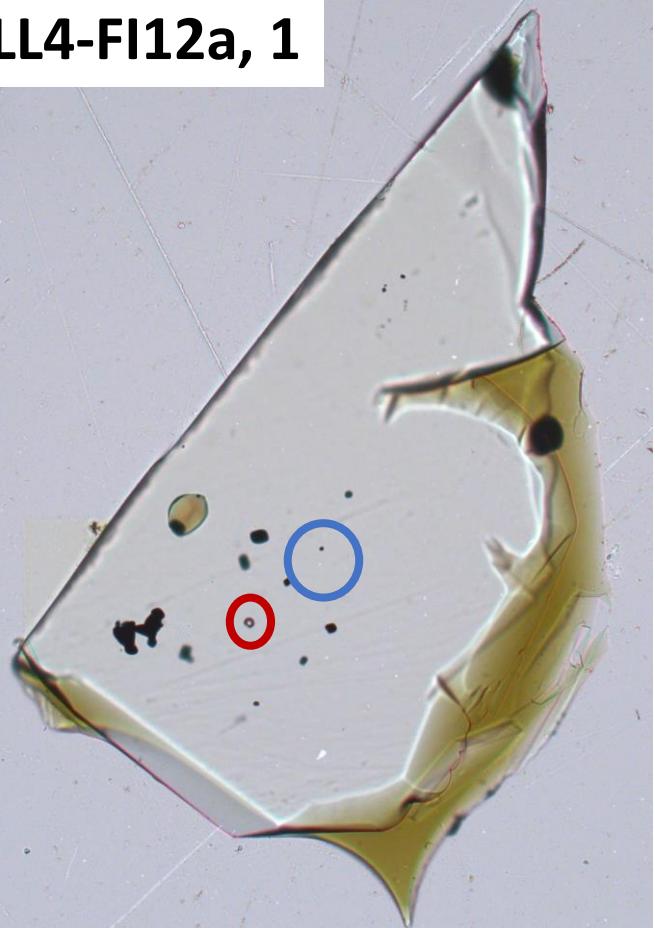


LL4-FI10, 1

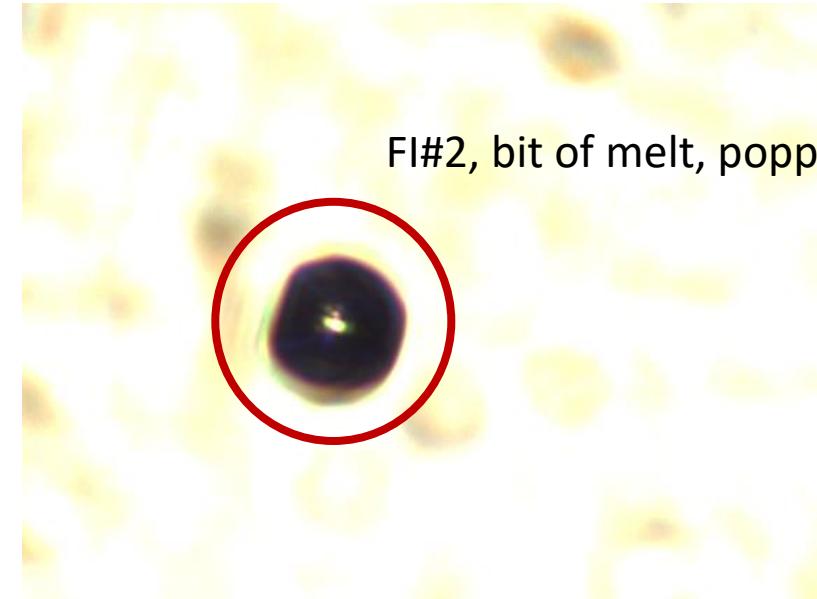


13 FI, some polished off

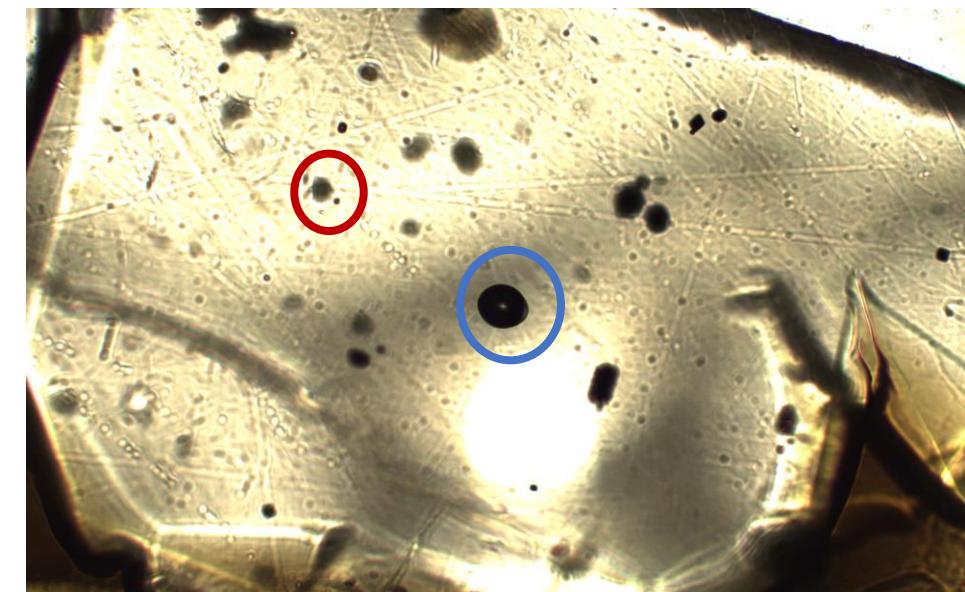
LL4-FI12a, 1



I labeled this crystal 12 in the early raman data.

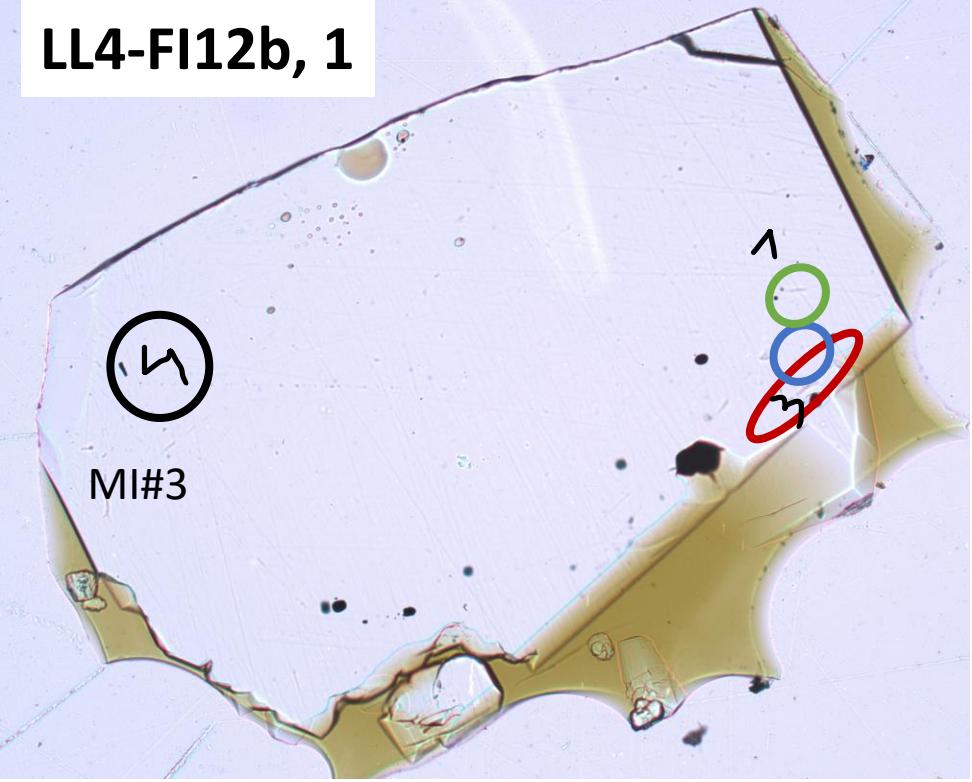


FI#2, bit of melt, popped now

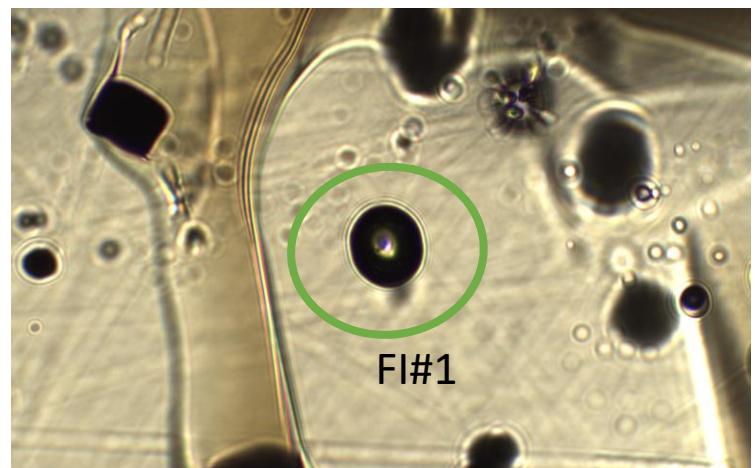
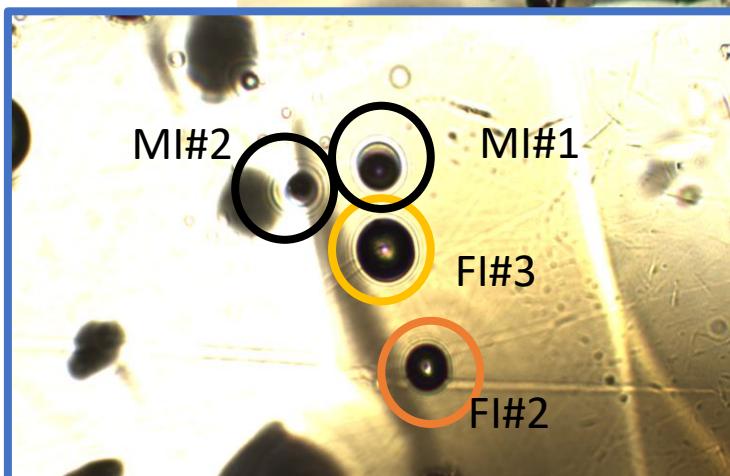
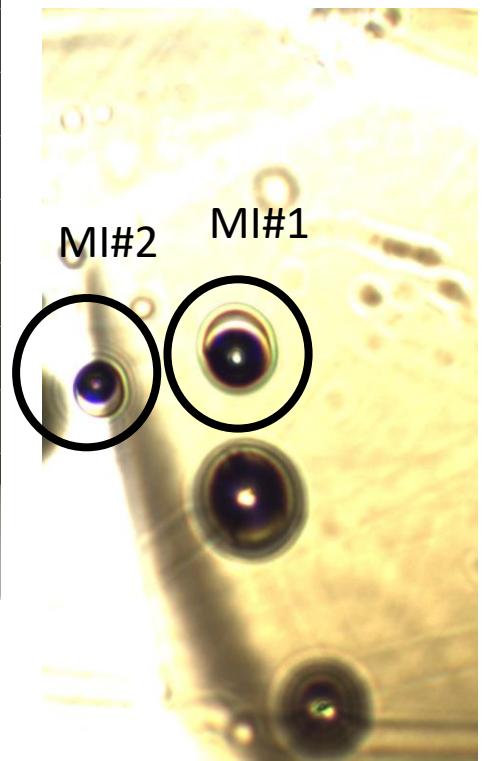
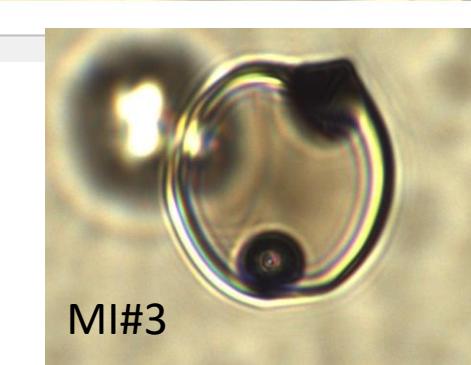
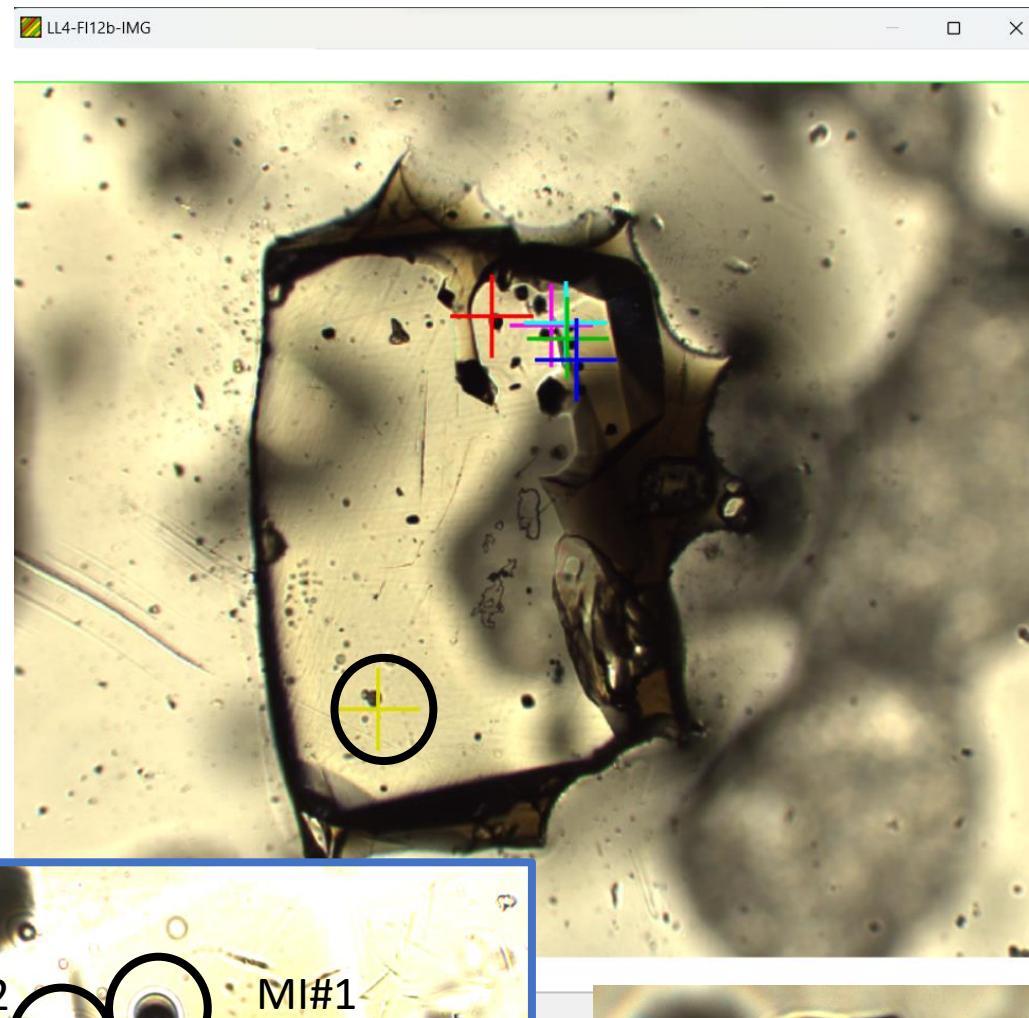


FI # 1 has melt, was polished off

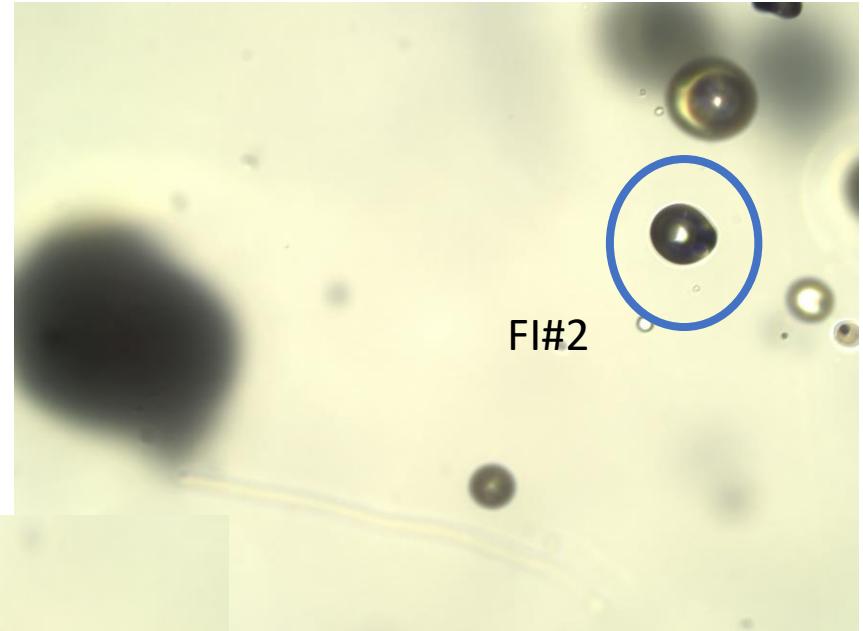
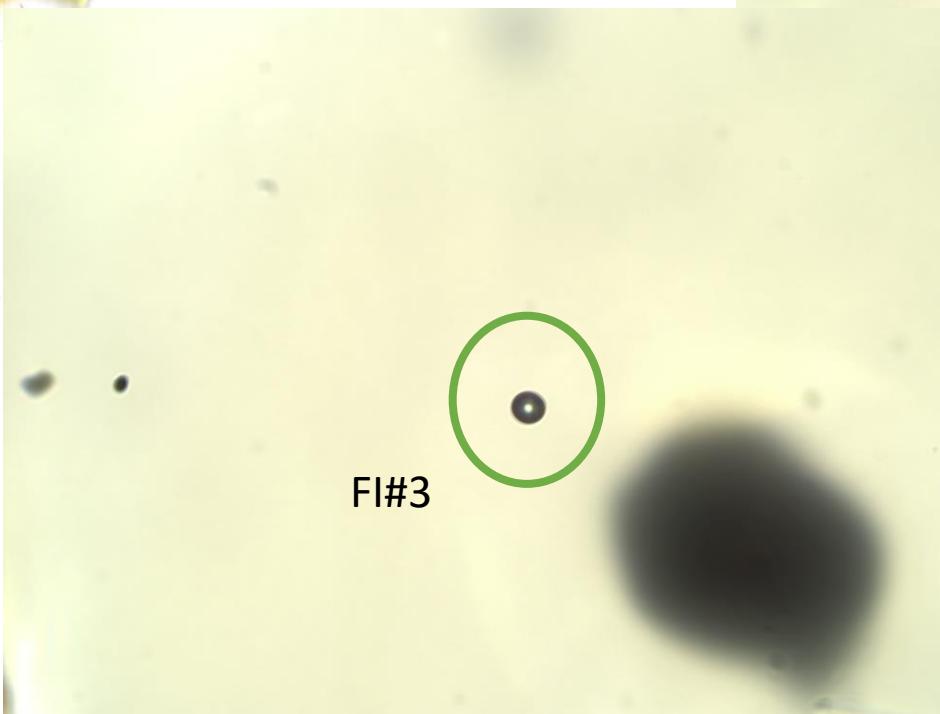
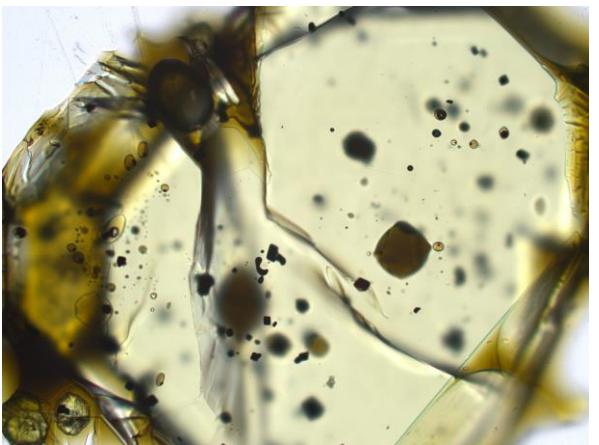
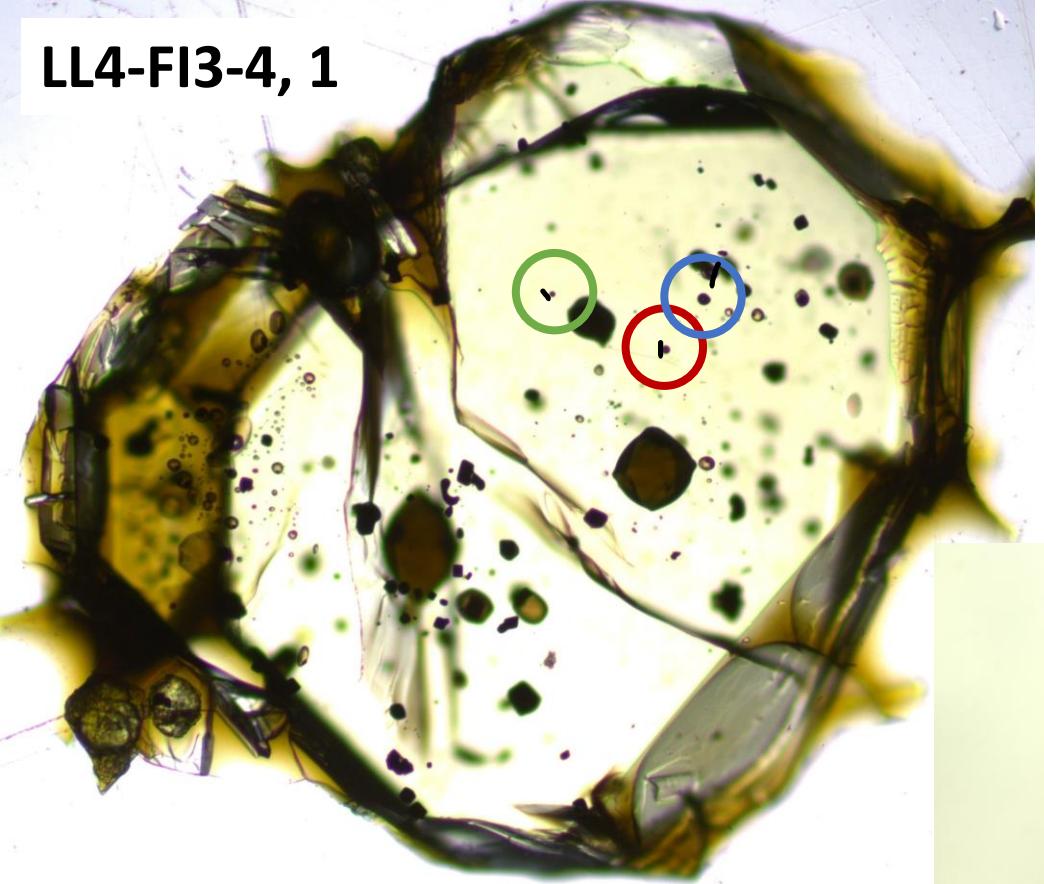
LL4-FI12b, 1



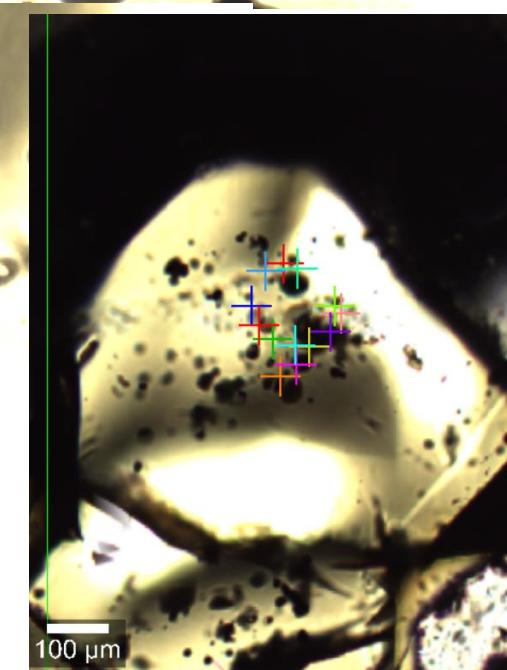
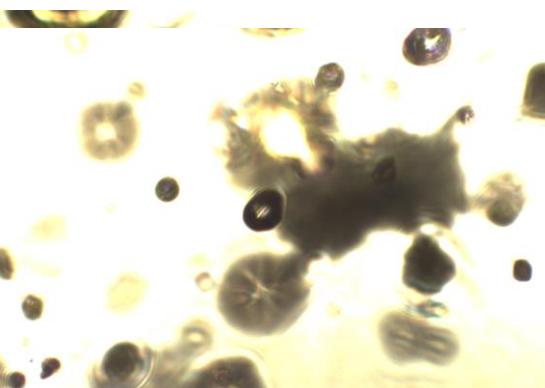
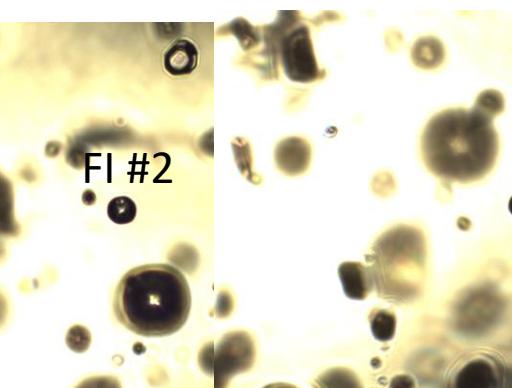
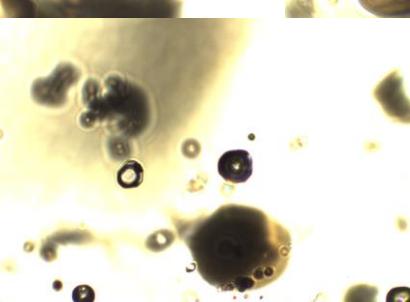
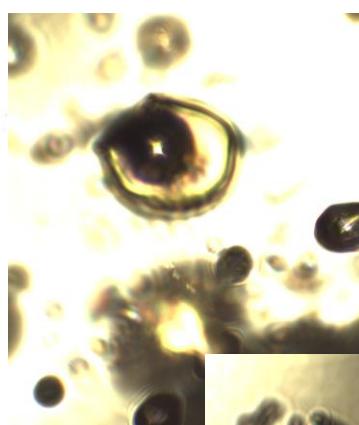
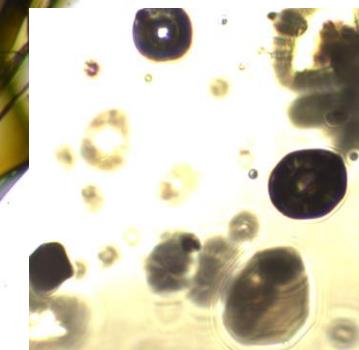
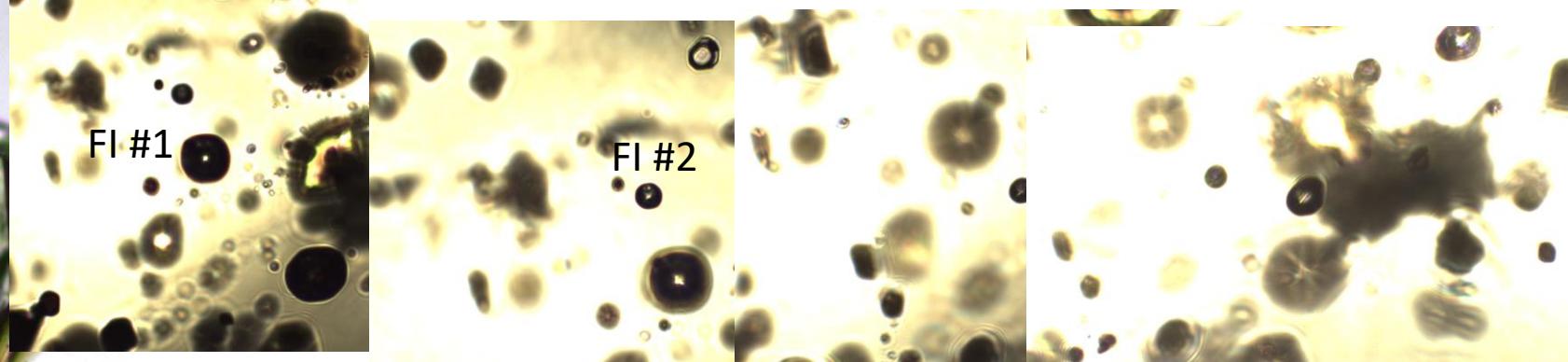
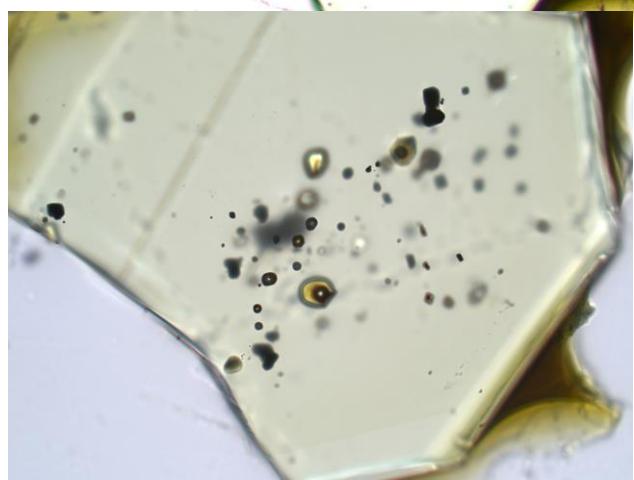
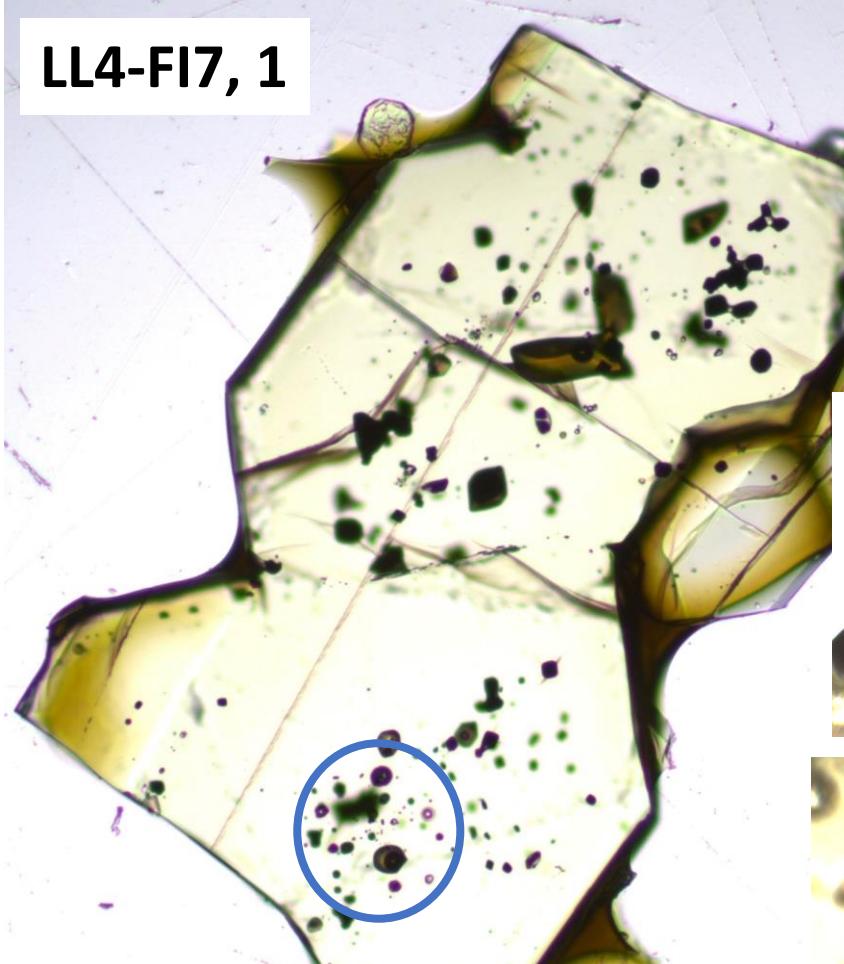
Polished away all FI and MI.



LL4-FI3-4, 1



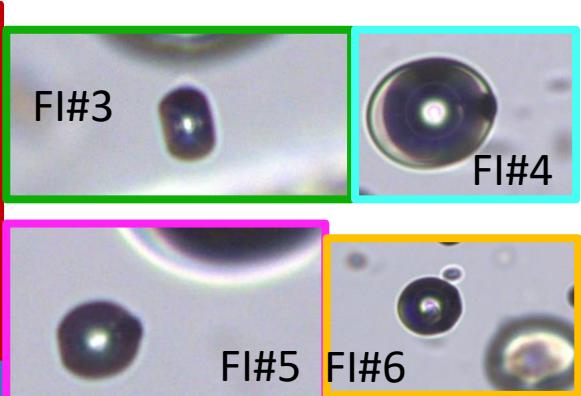
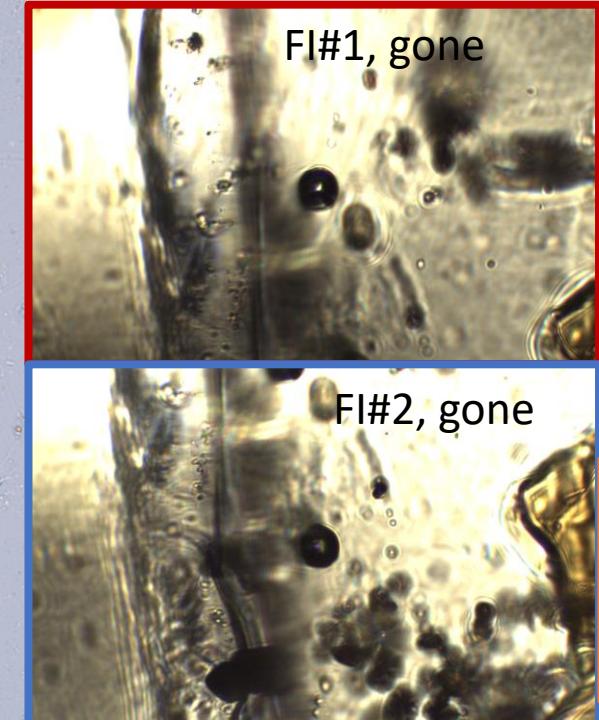
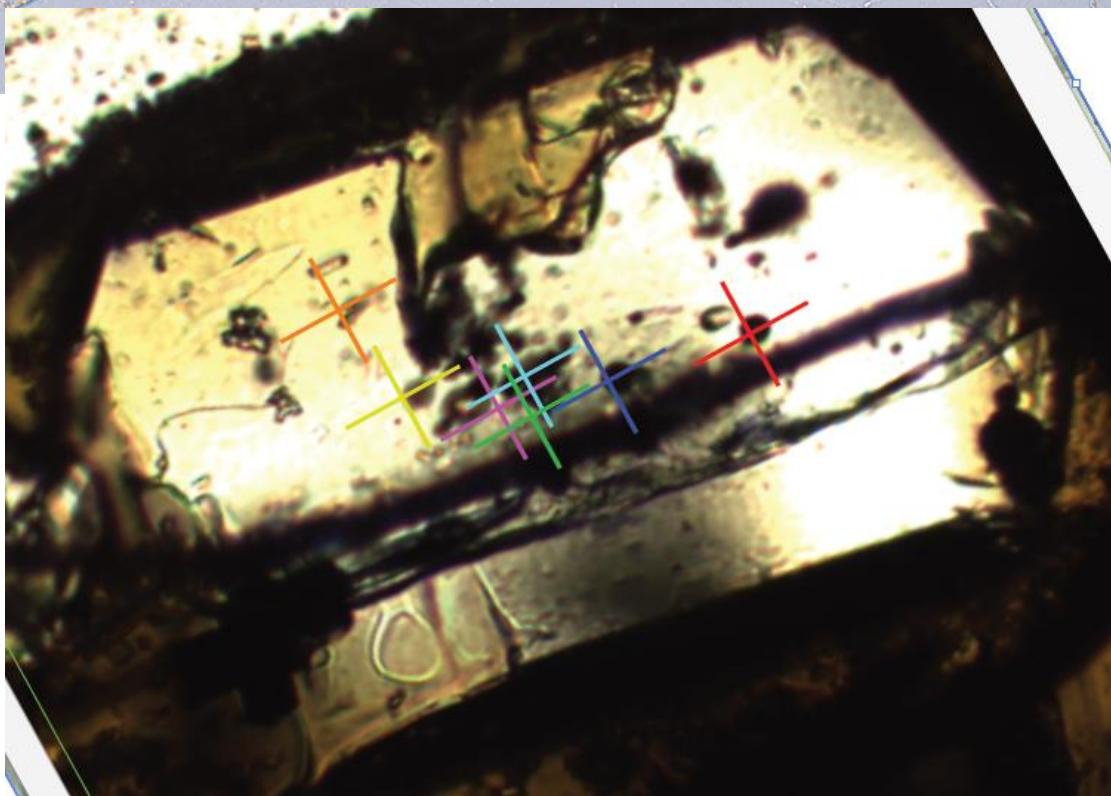
LL4-FI7, 1



A lot gone

Color Bitman (3222x3222) - RGB 210C33

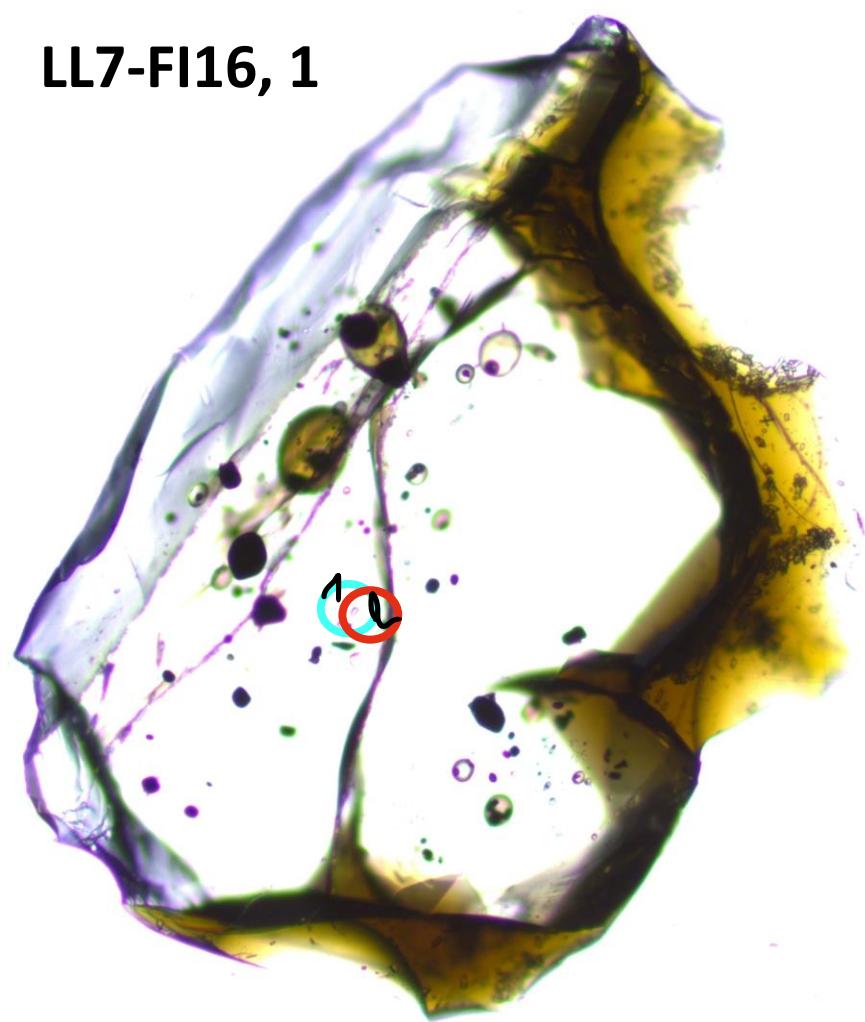
LL7-19dp, 1



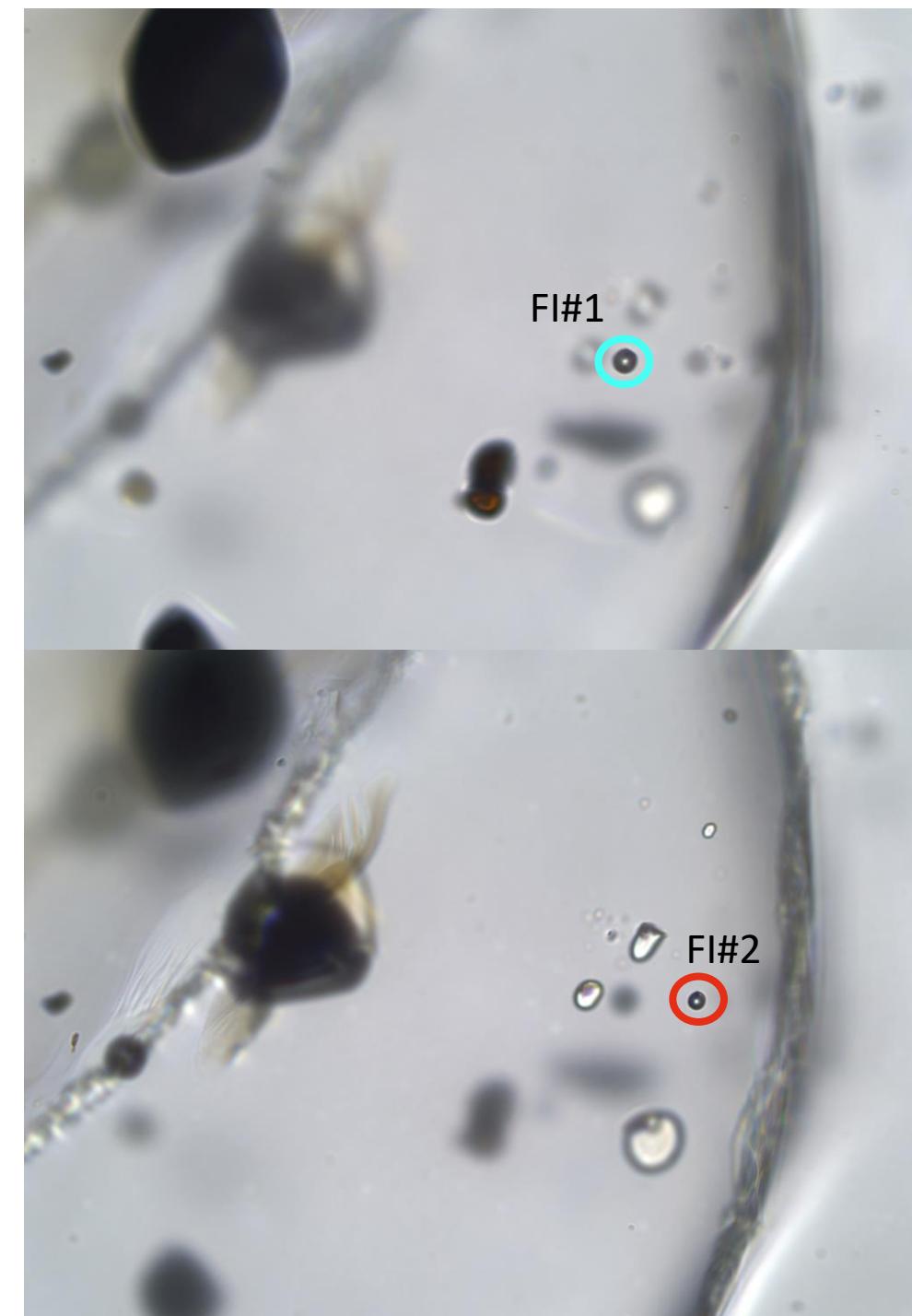
If I didn't specify probe spots here it's because it's the same order of the FI.

This one has a 19-1 spot from Oct10 22 (dark blue), but ignore it because I don't have probe spot for it.

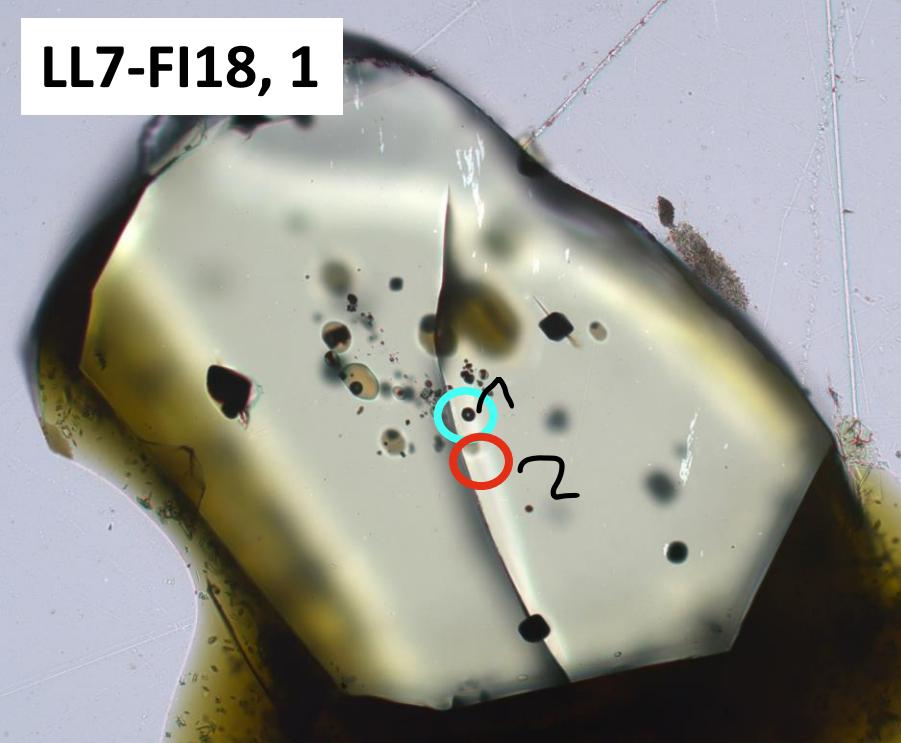
LL7-FI16, 1



No diad (raman data)

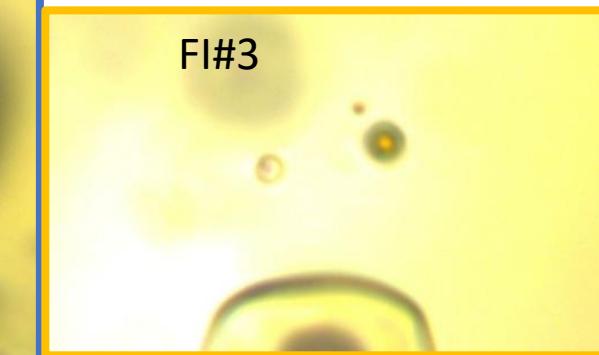
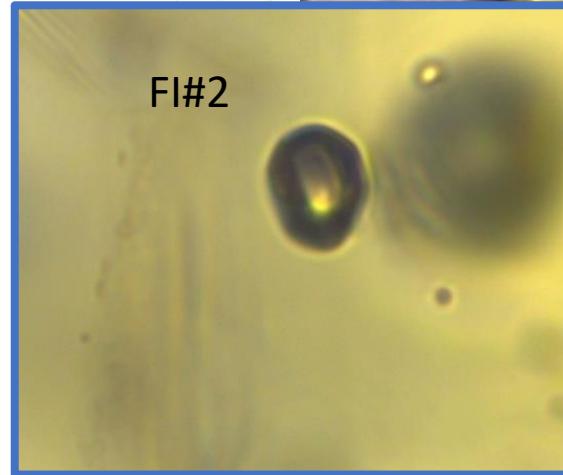
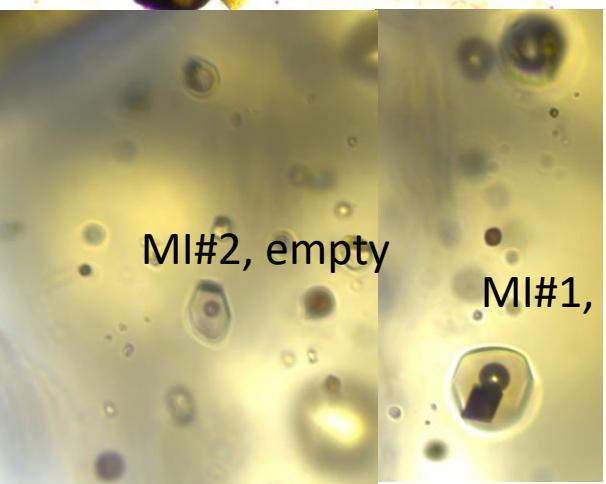
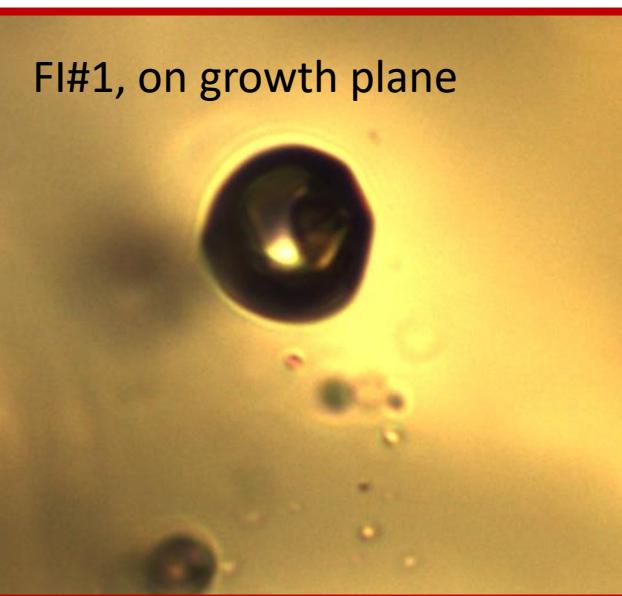
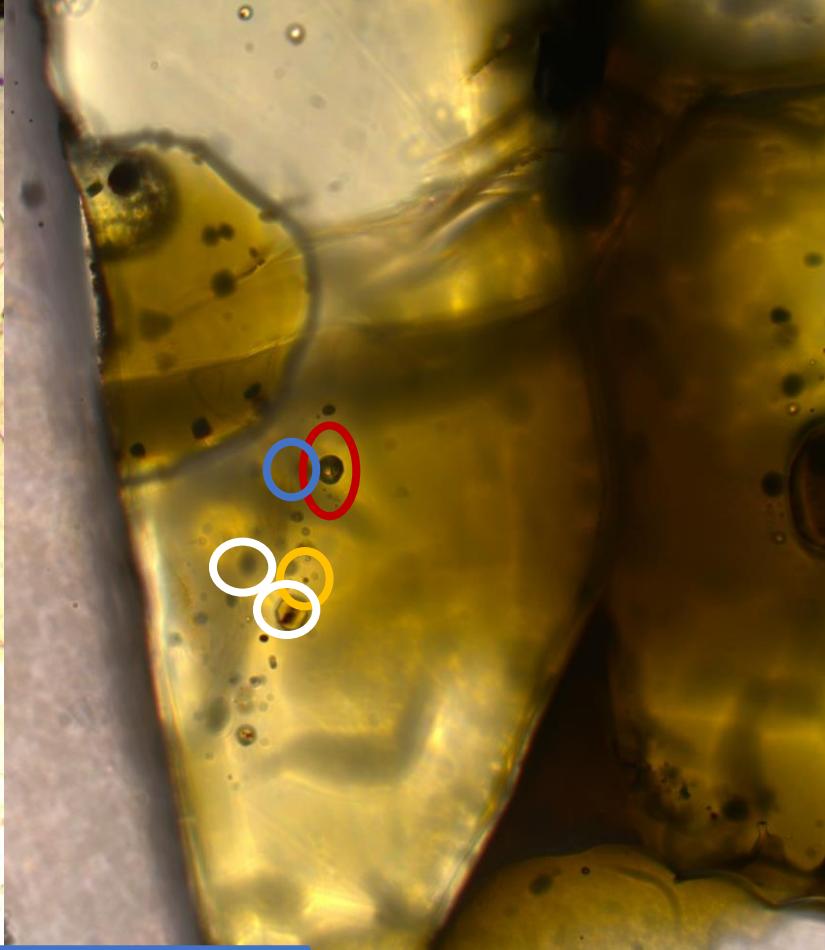
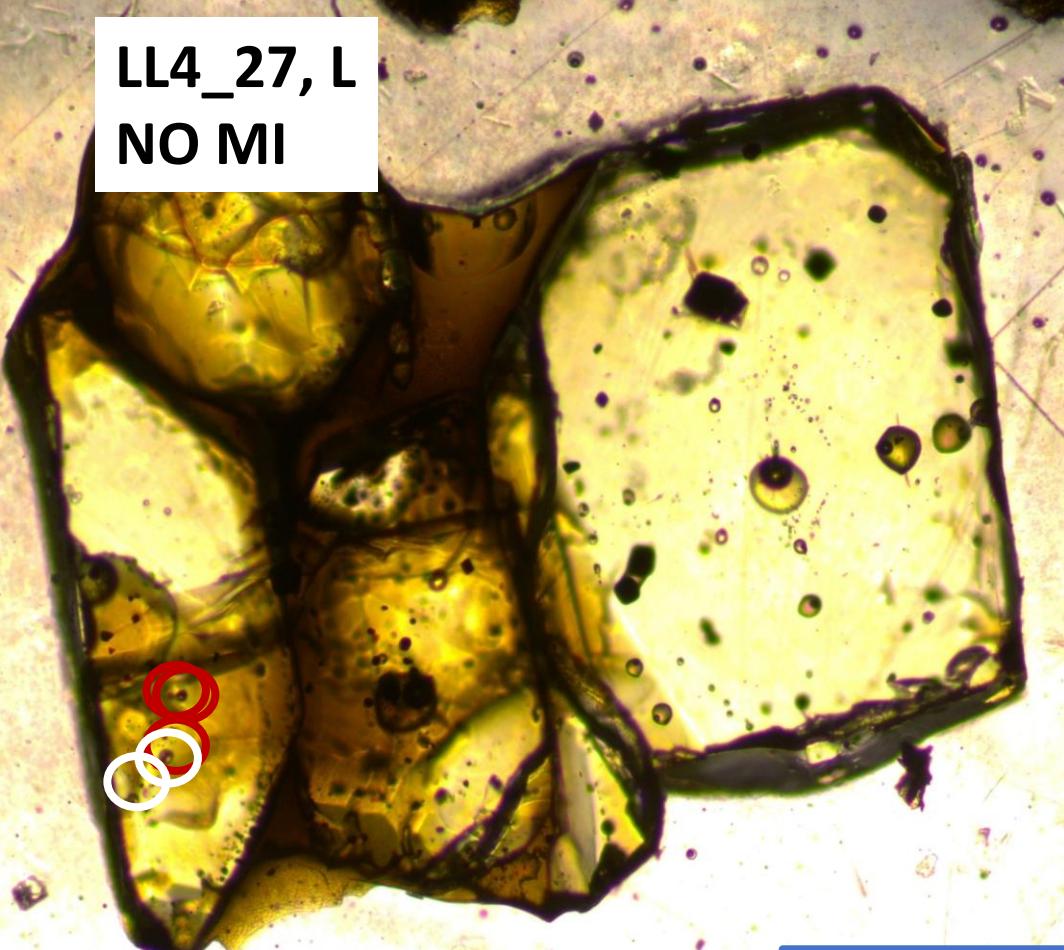


LL7-FI18, 1

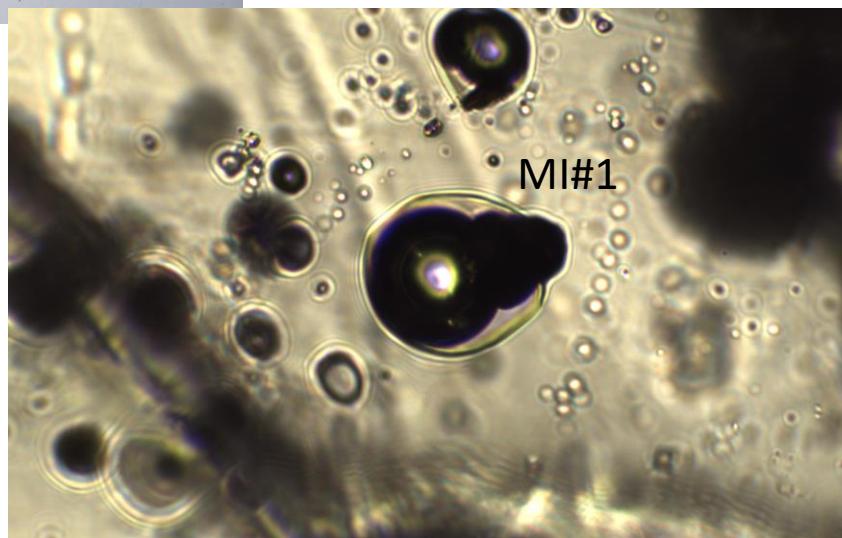


This crystal was flipped weird, hard to know for sure if the FI are just gone

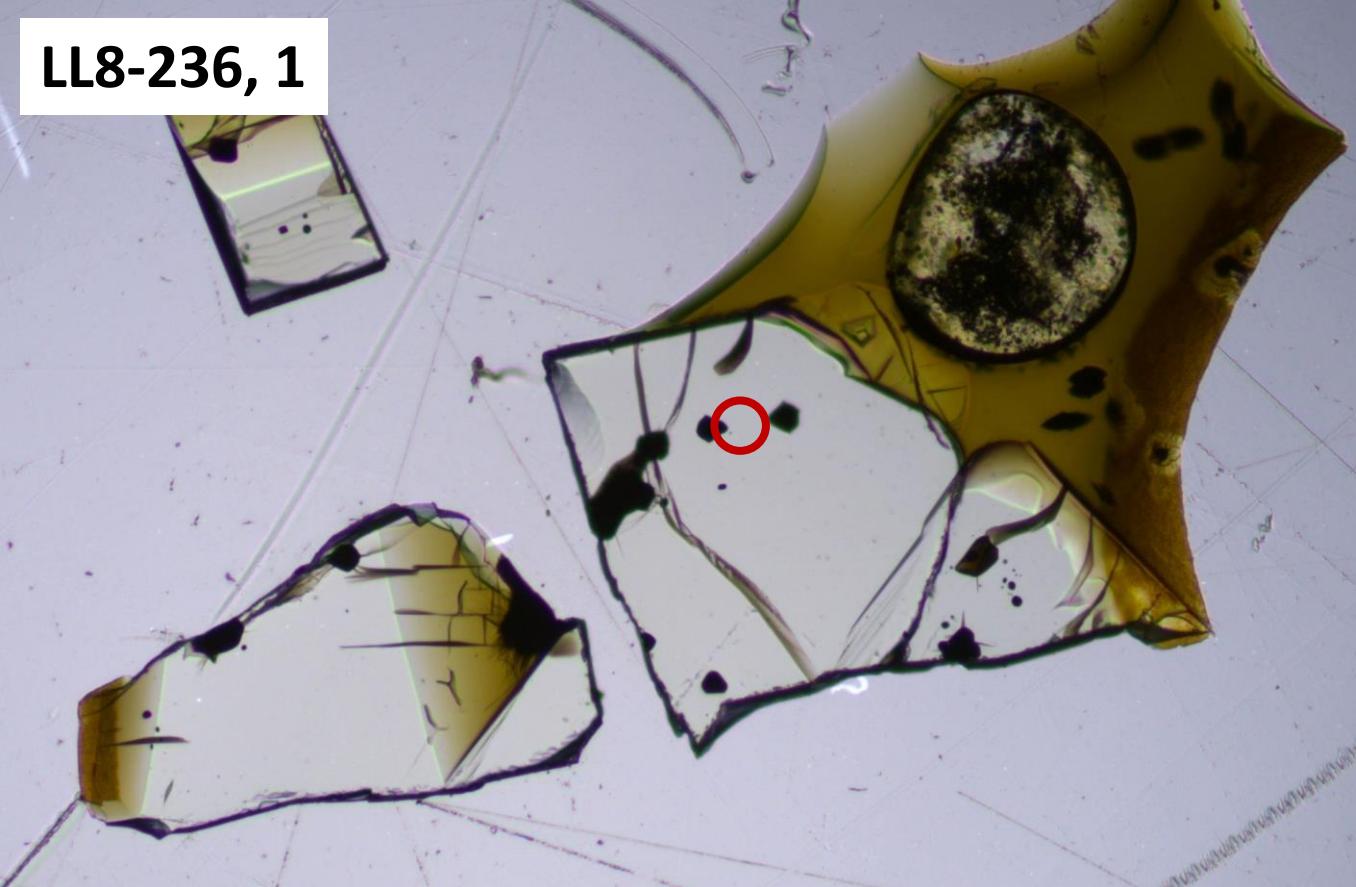
LL4_27, L
NO MI



LL8-C15, 3



LL8-236, 1

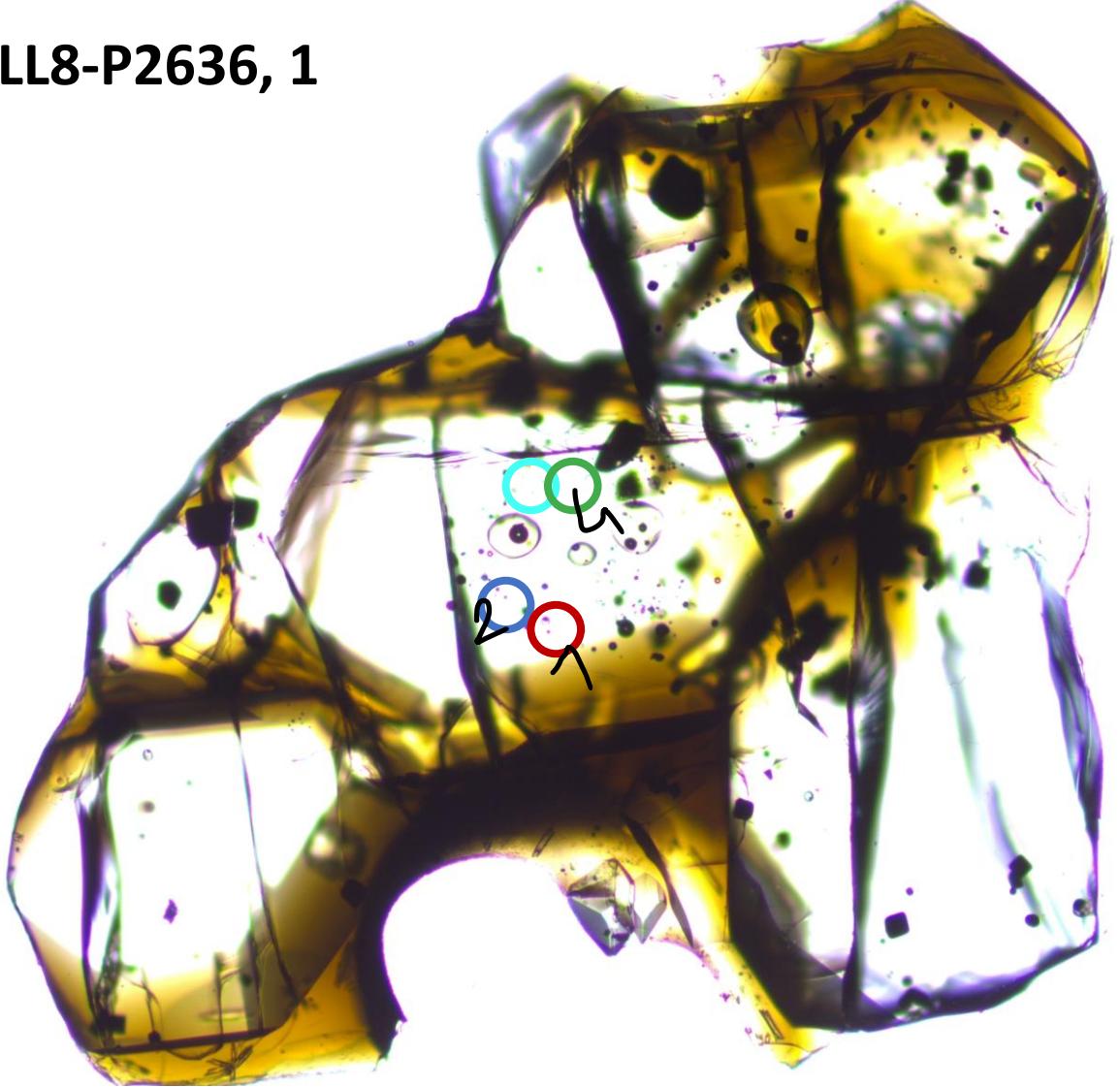


FI#1 and 2 were lost (a piece that broke off but
Those two spinels are in a similar growth zone
As they would have been)

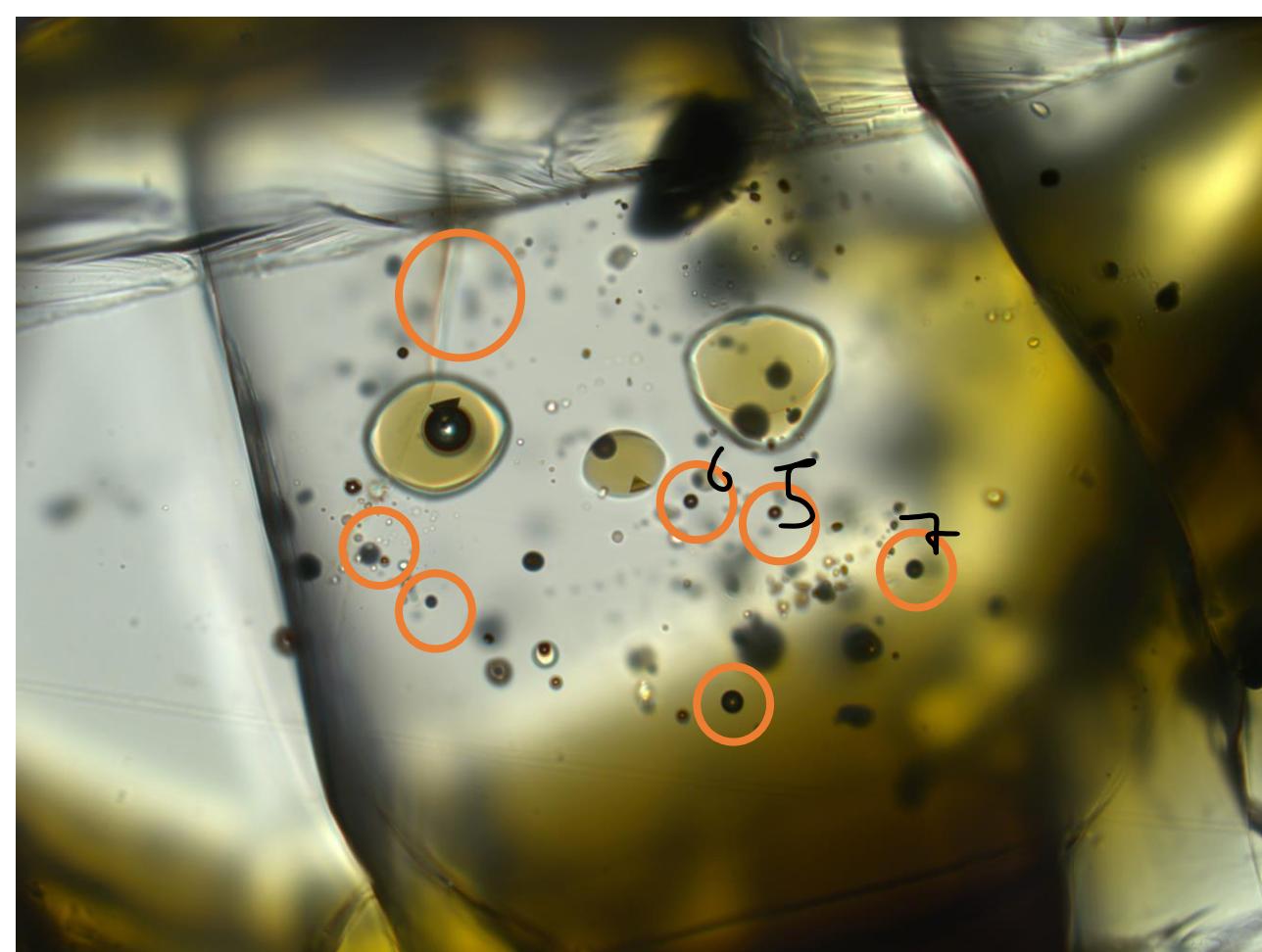


Color Bitmap (1920x1200) - BGR 09070B
Pixel (794/0) | R: 545.14 μm

LL8-P2636, 1

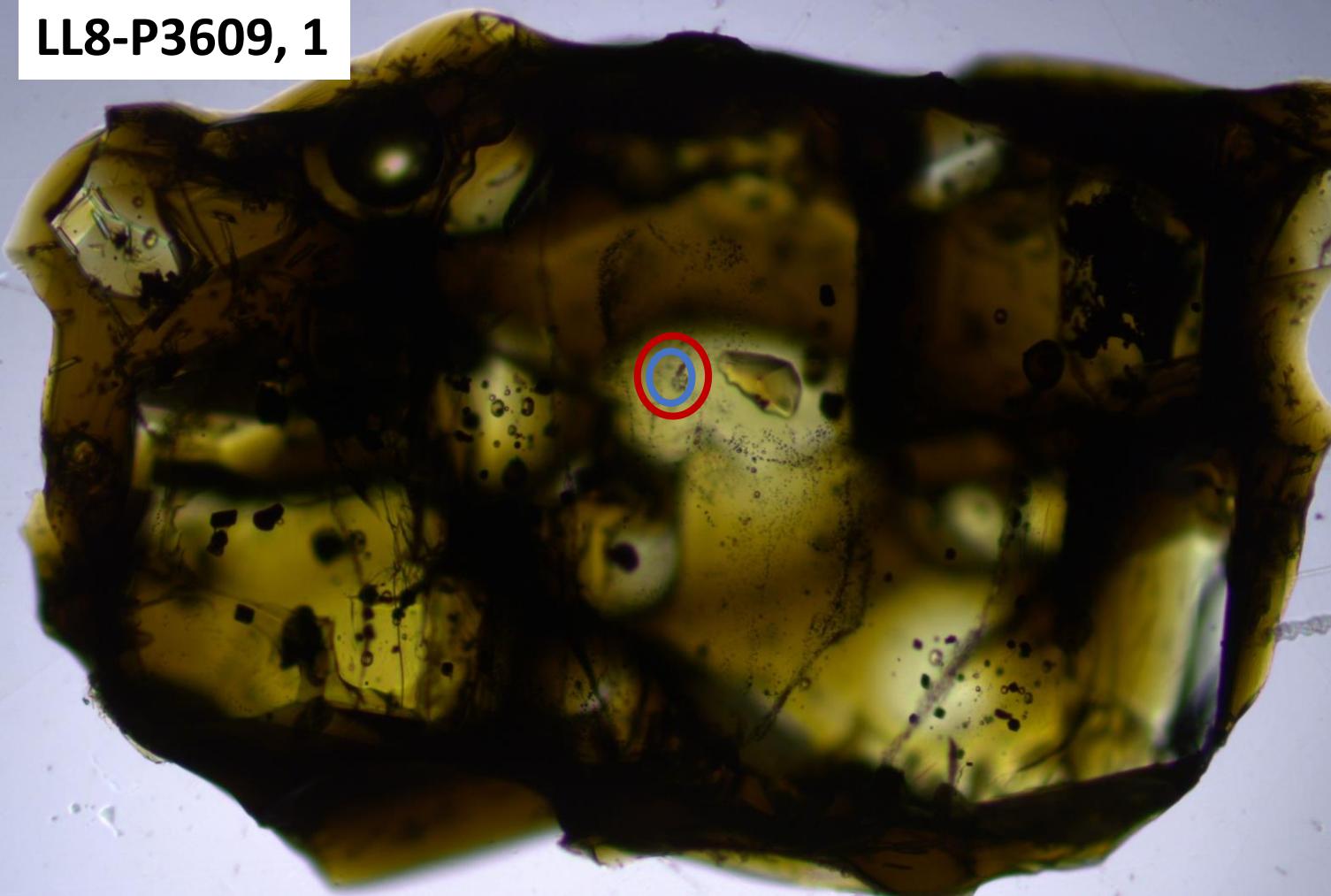


Hard to figure out which are the original ones, but that was general location
(1 red, 2 blue, 3 green, 4 cyan)

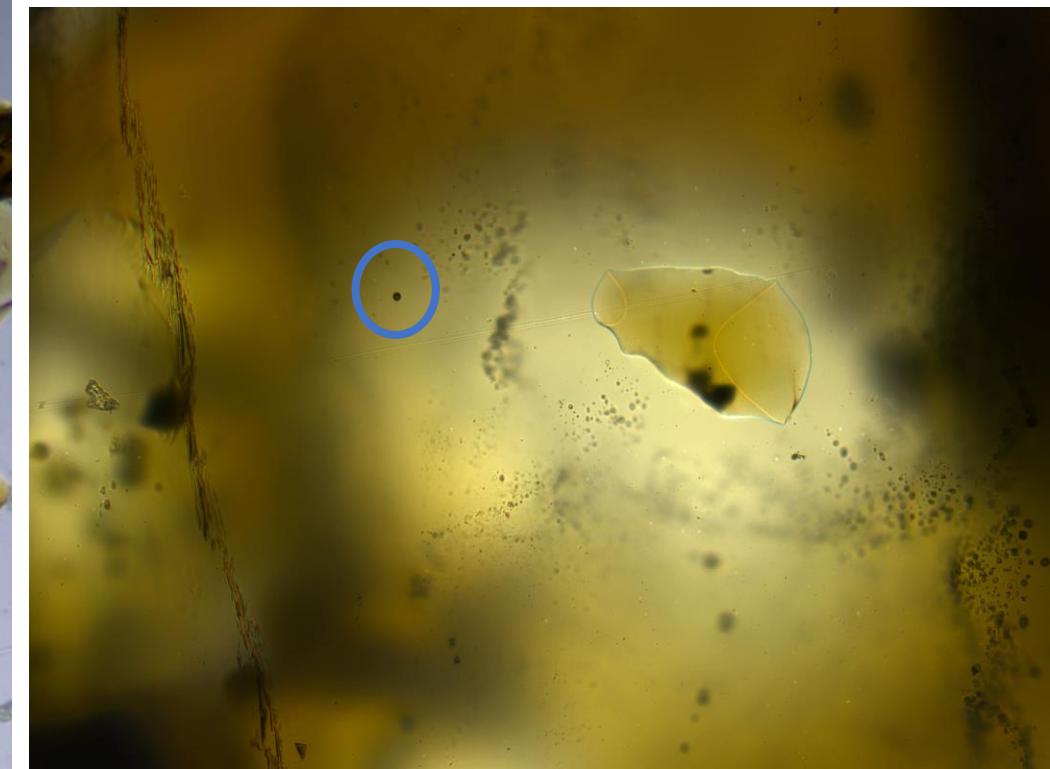


New visible FI, plenty to raman on GZ

LL8-P3609, 1



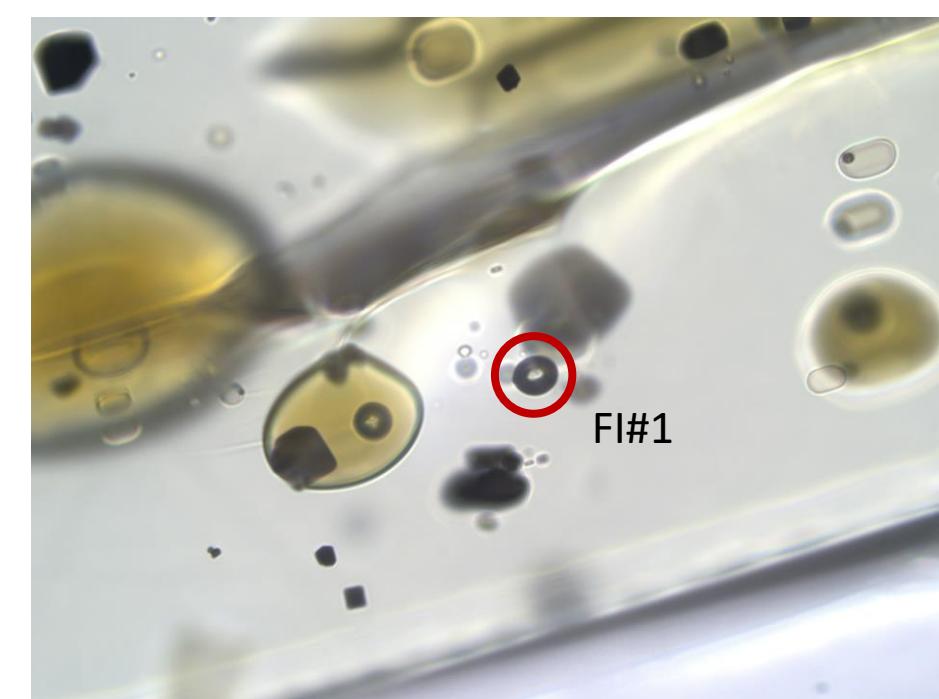
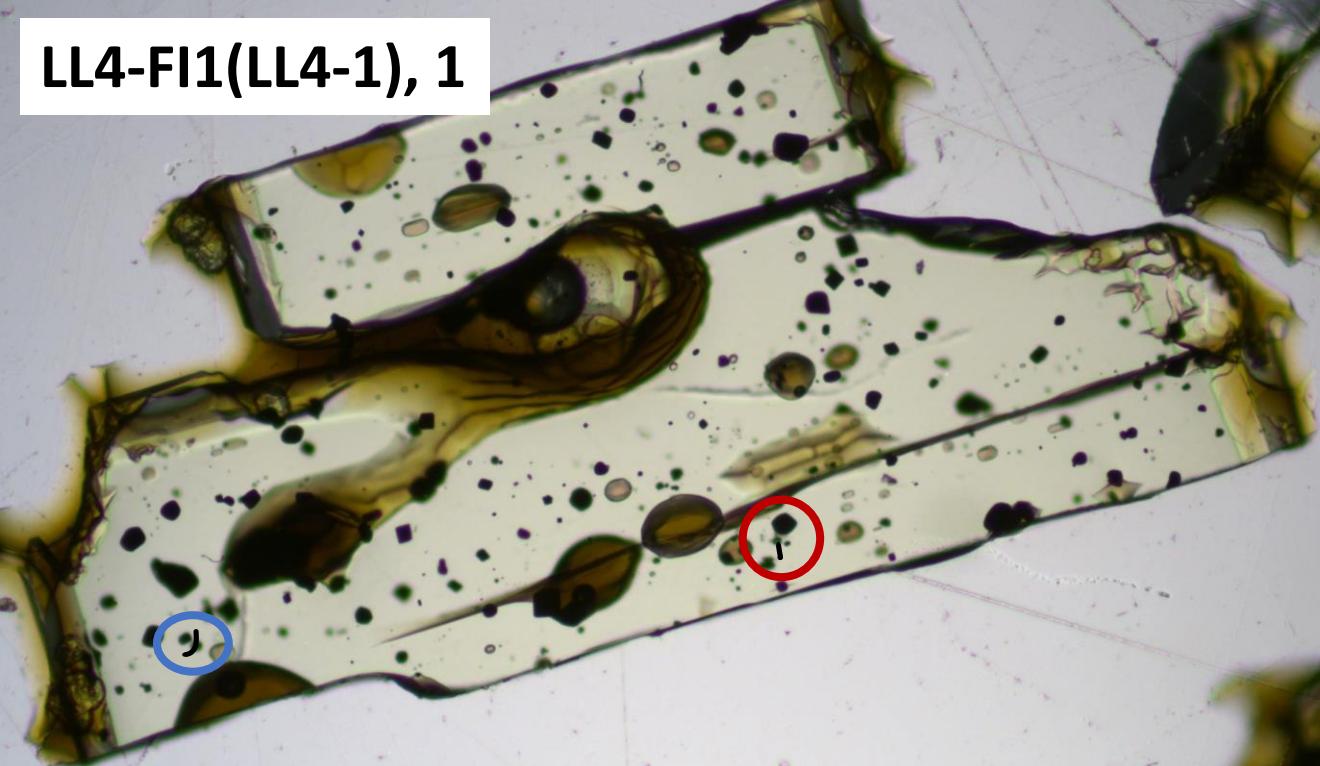
FI#1,2,3 polished out



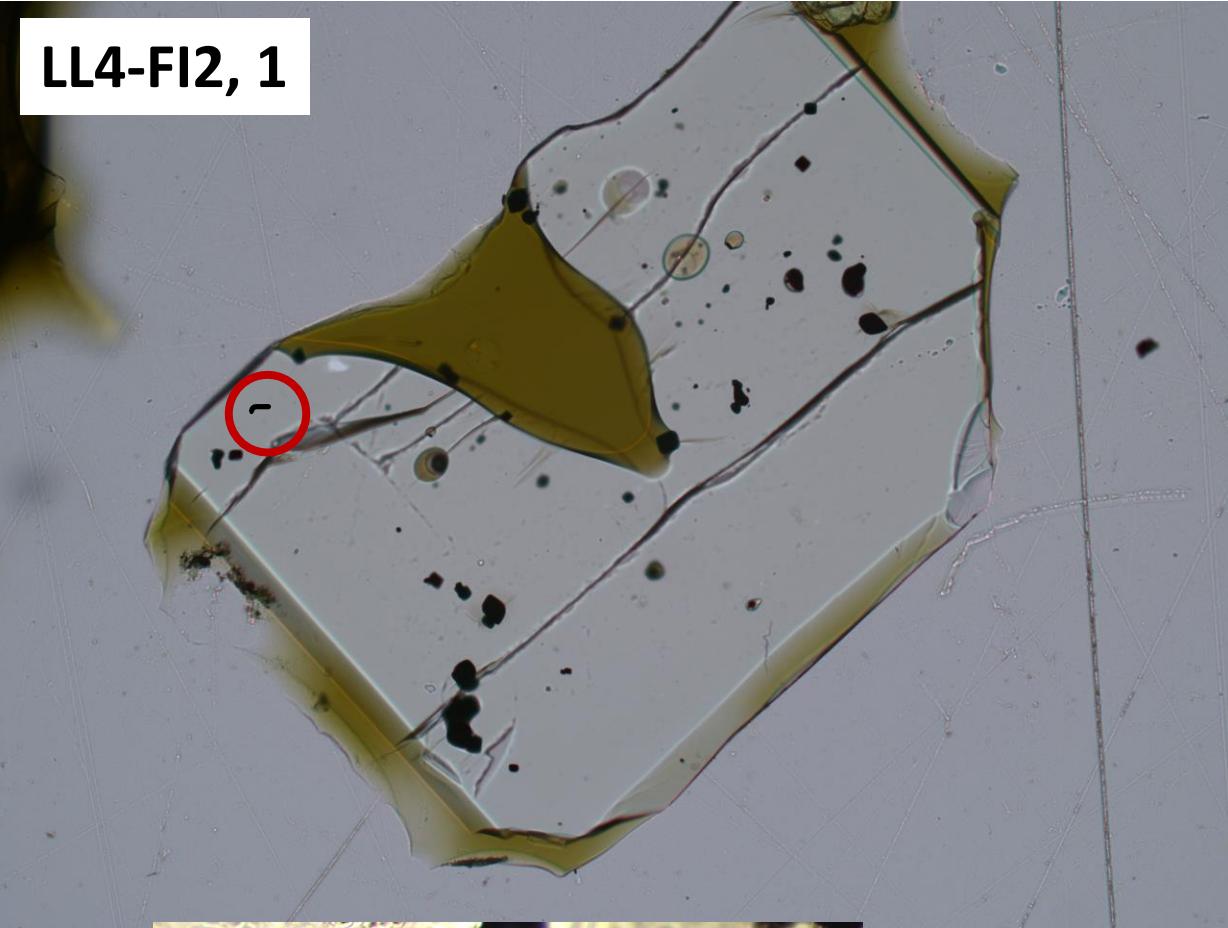
FI# 4, raman (never been ramaned before)

This section has all the other FI in this study

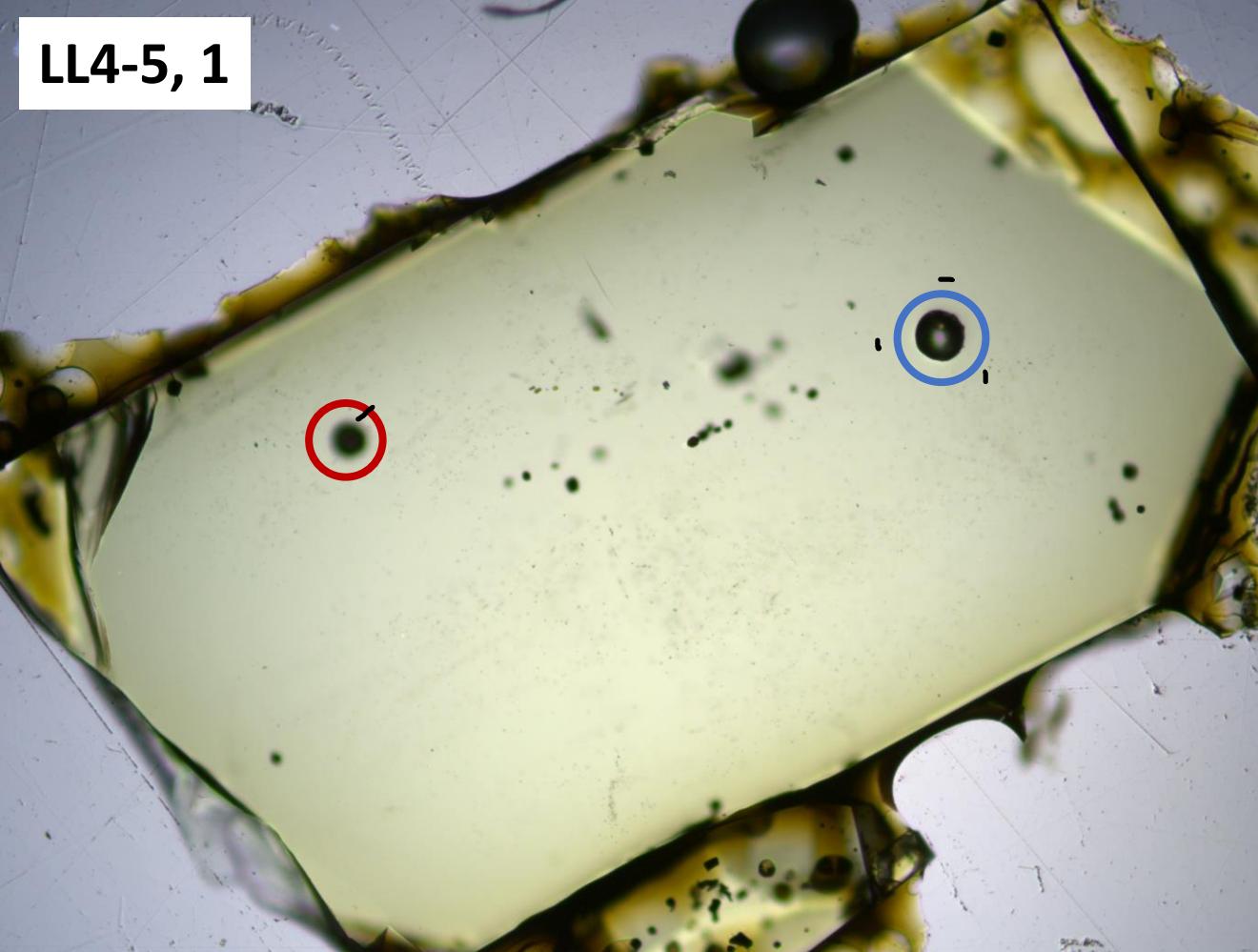
LL4-FI1(LL4-1), 1



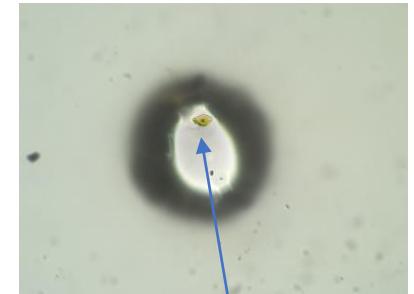
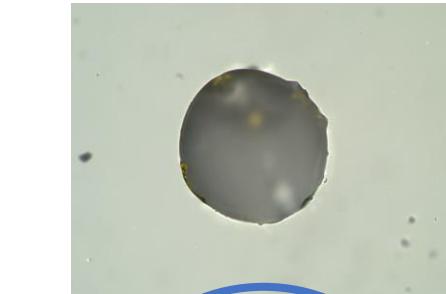
LL4-FI2, 1



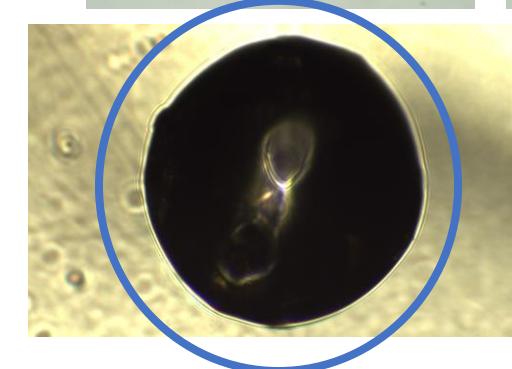
LL4-5, 1



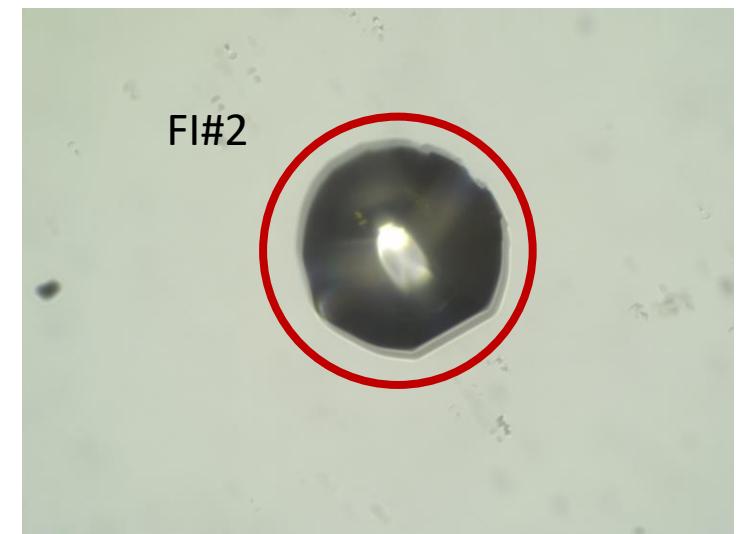
3 probe spots near 1



Tiny MI in FI??!

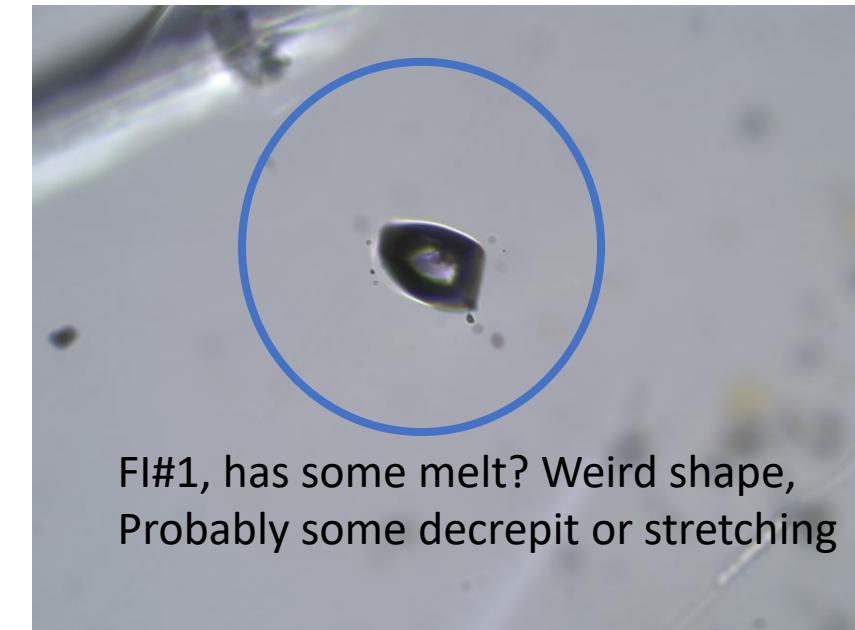
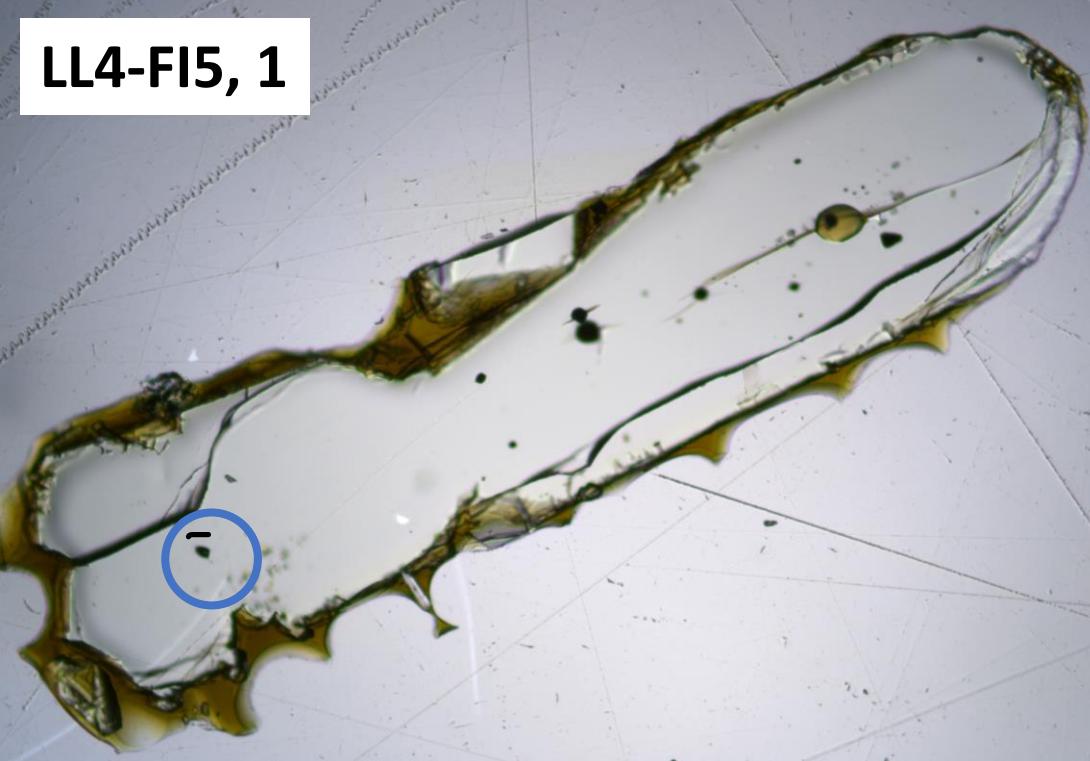


FI#1



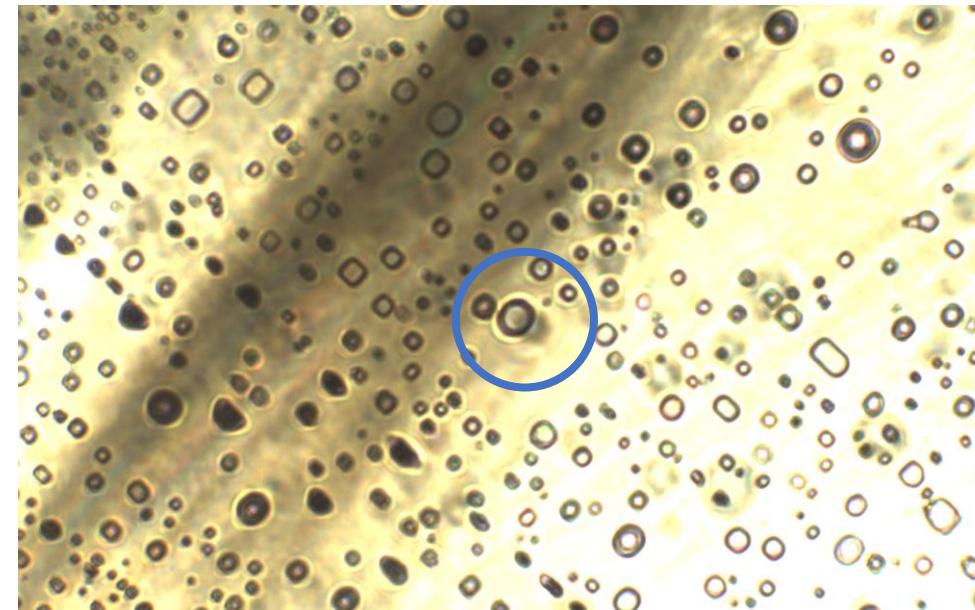
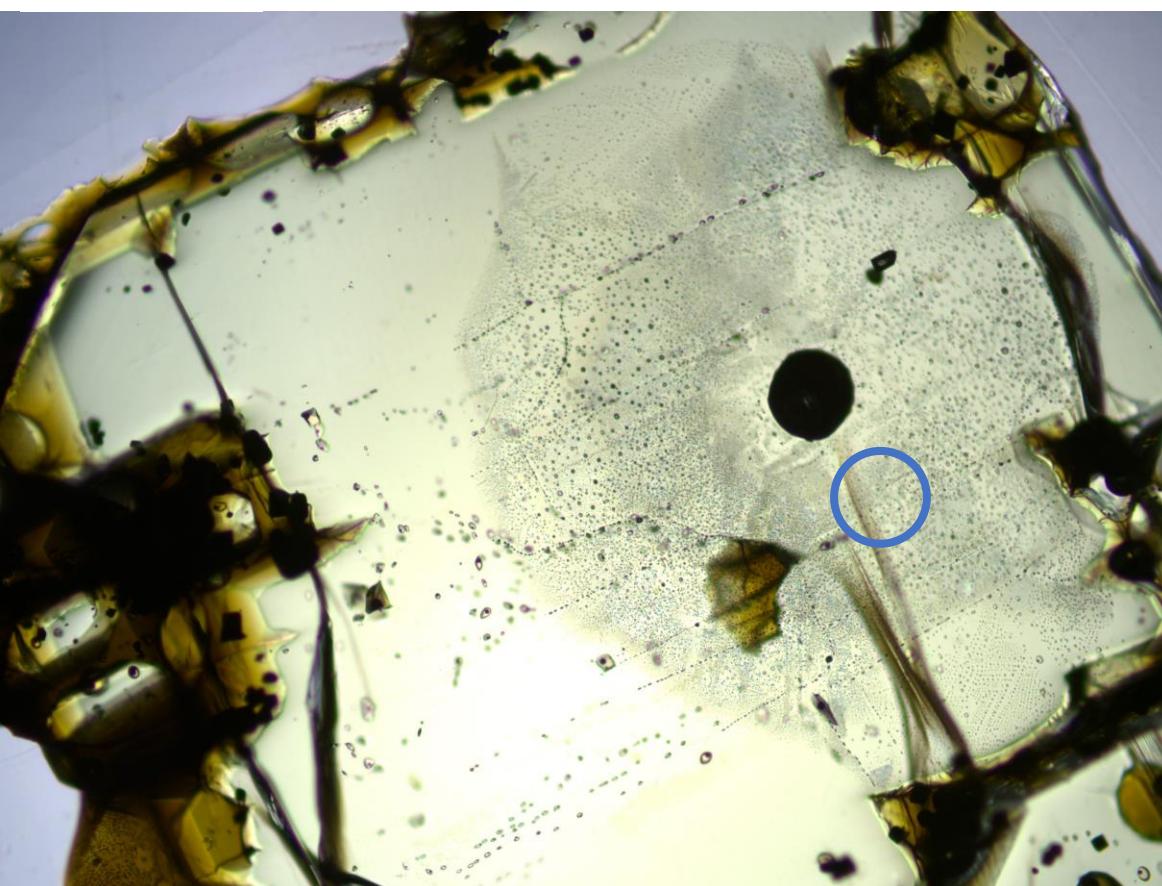
FI#2

LL4-FI5, 1



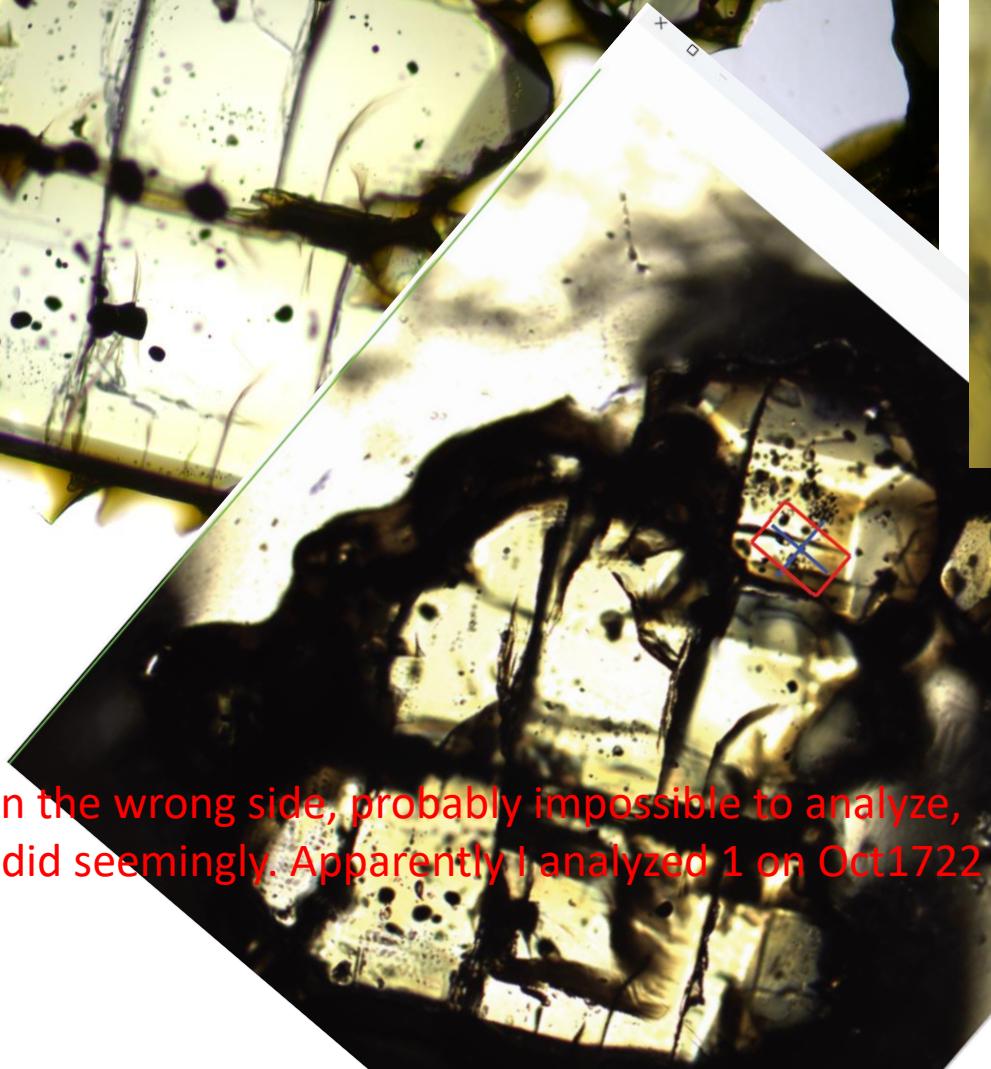
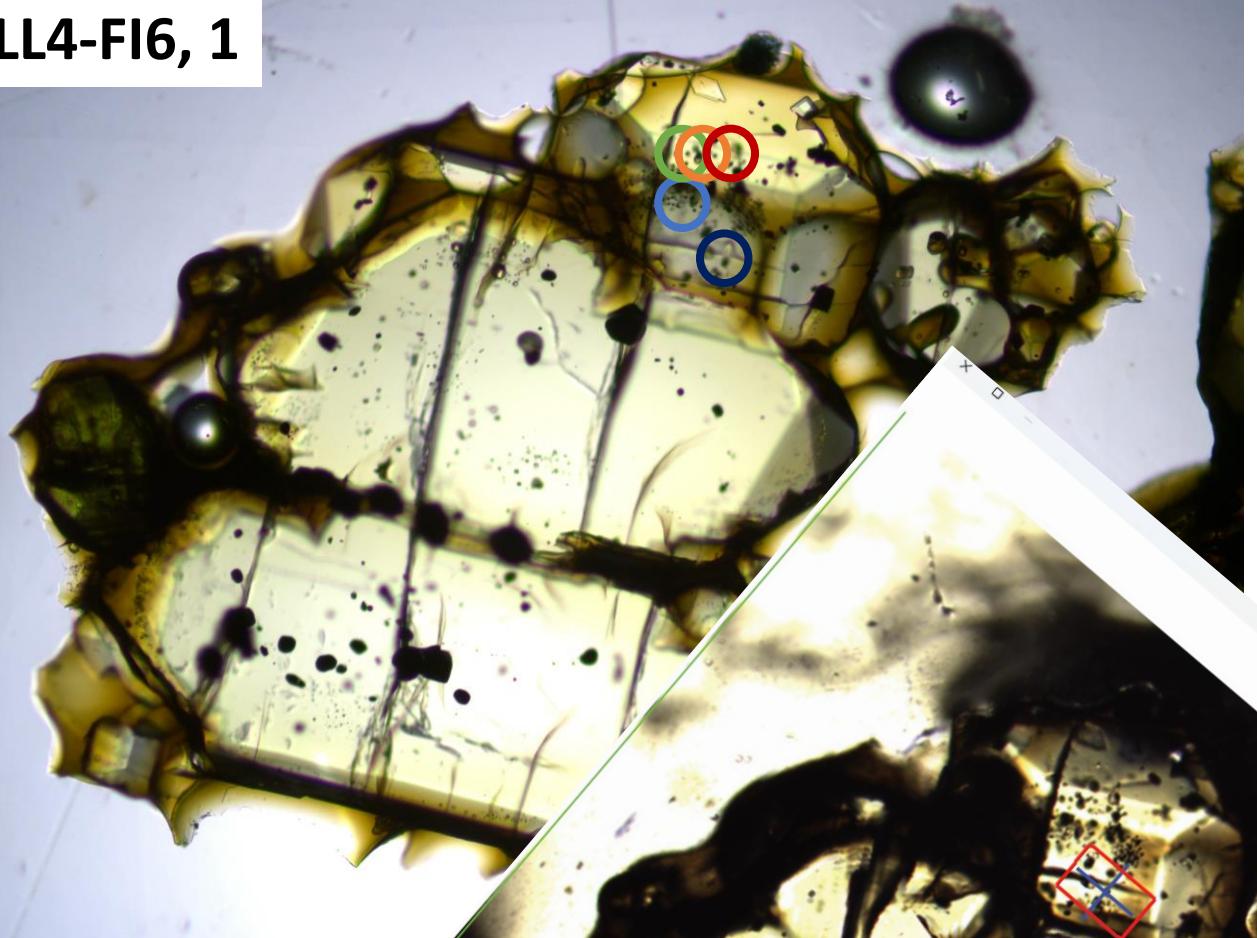
FI#1, has some melt? Weird shape,
Probably some decrepit or stretching

LL4-6, 1

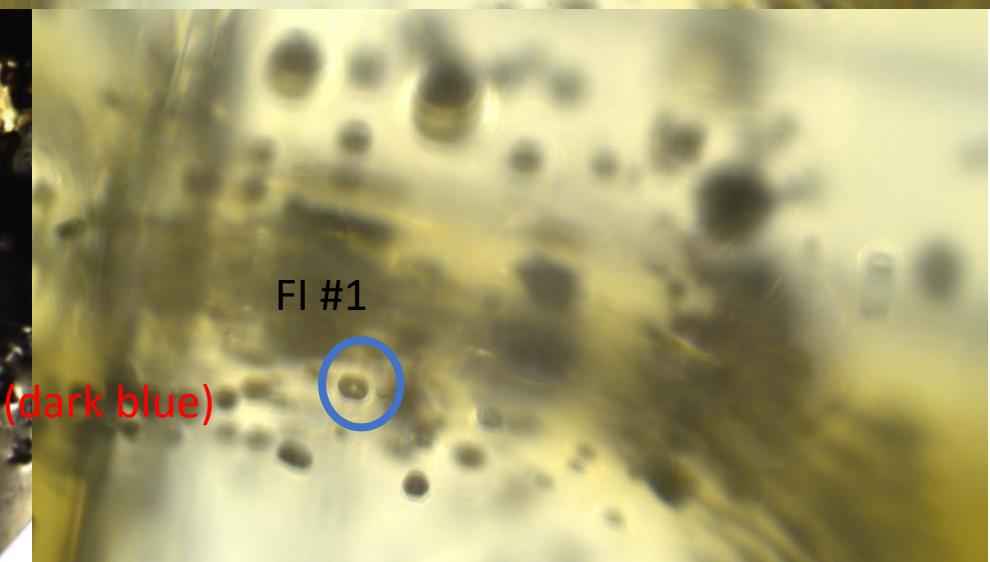
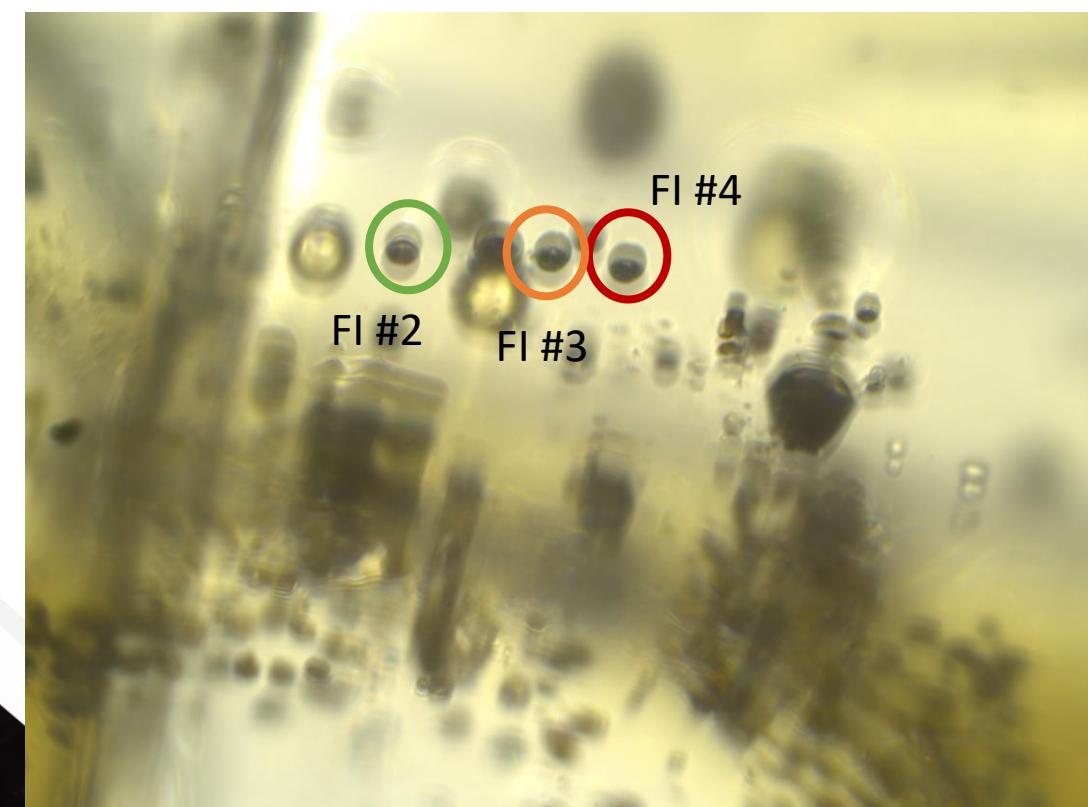


FI#1, They are probably result of decrepitation of the big one.
Cloud of FI around the big decrepit one. Cross cut by many
Secondary planes.

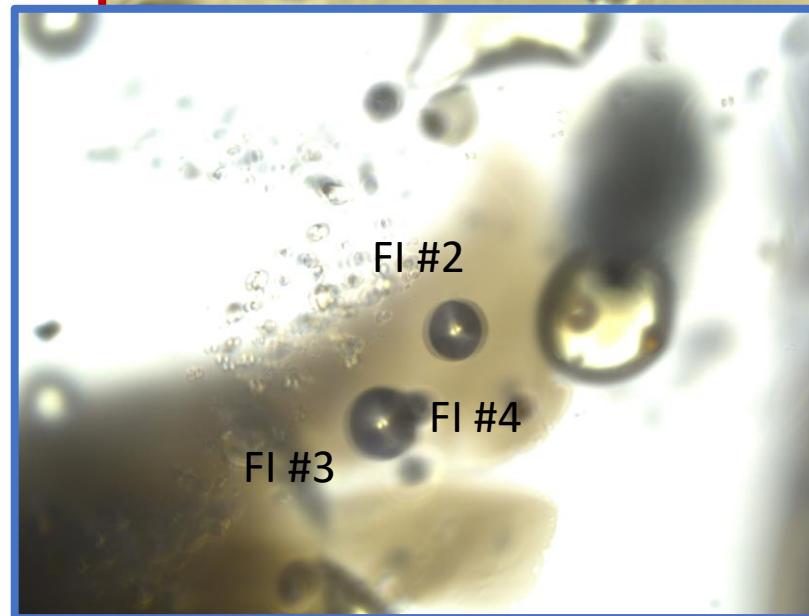
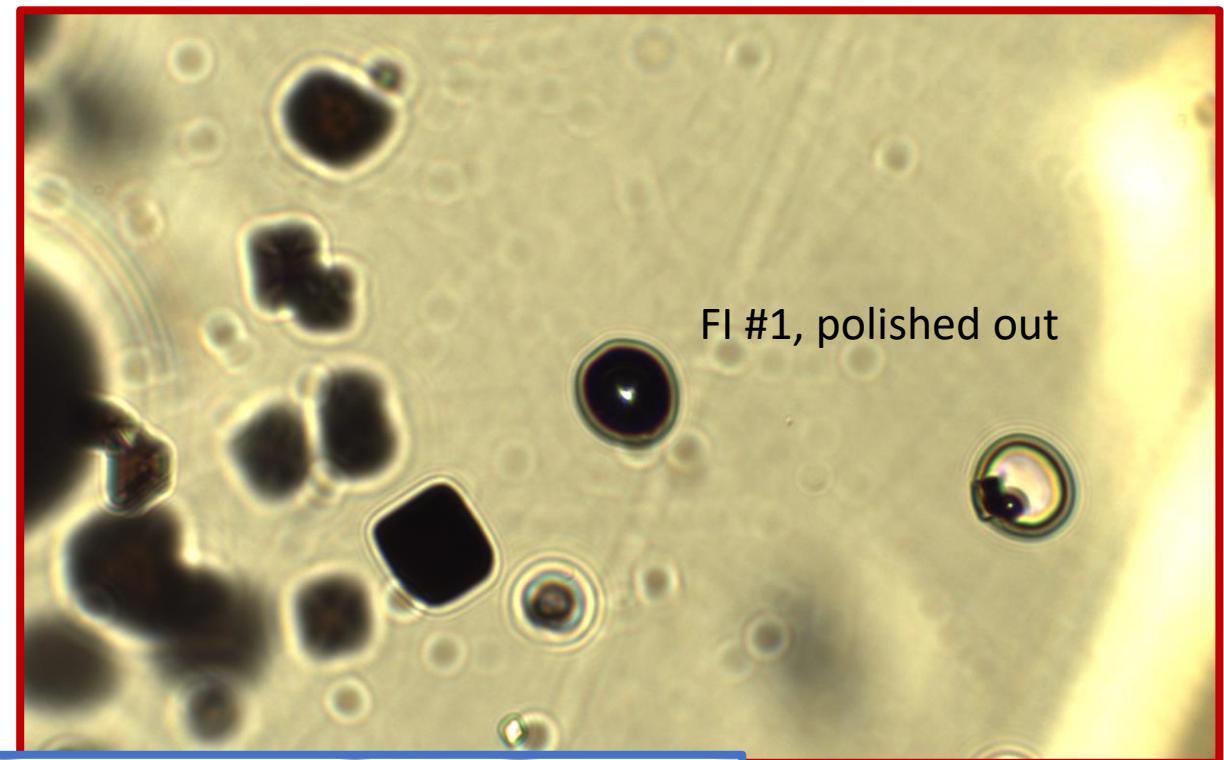
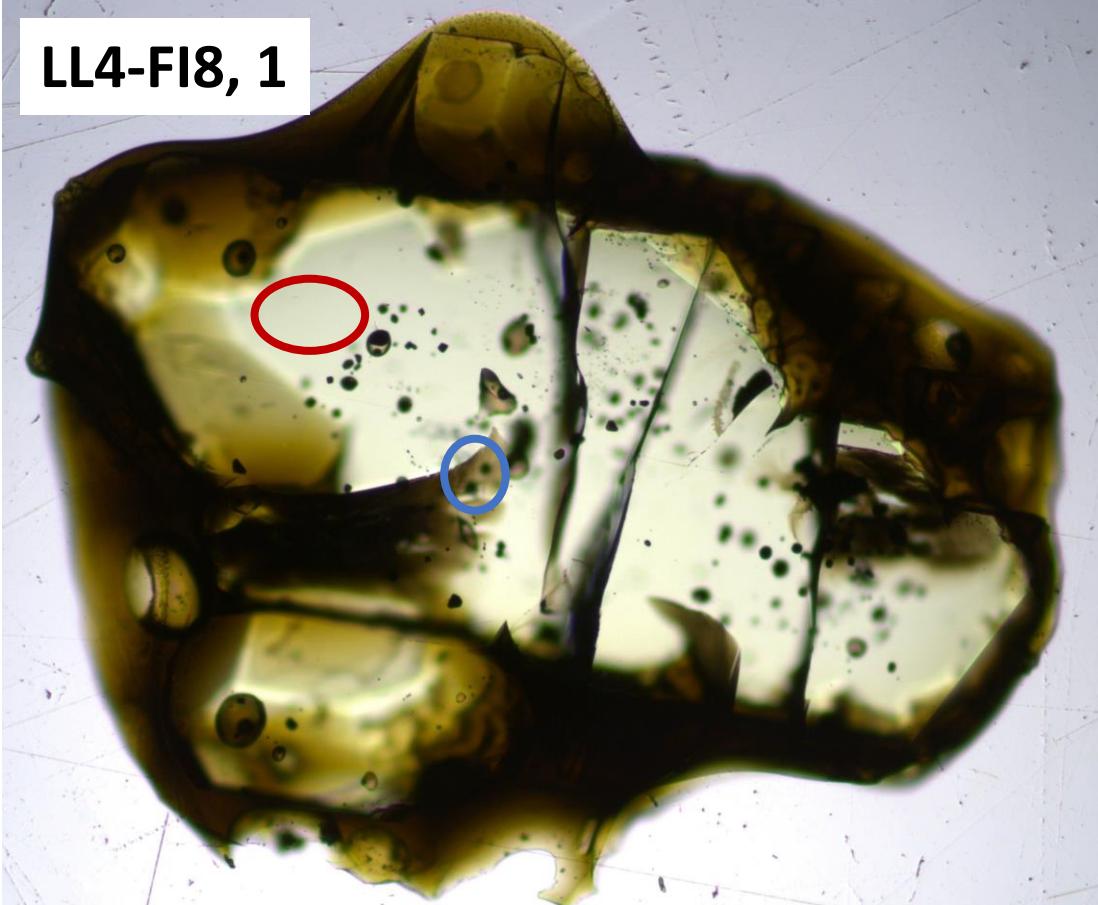
LL4-FI6, 1



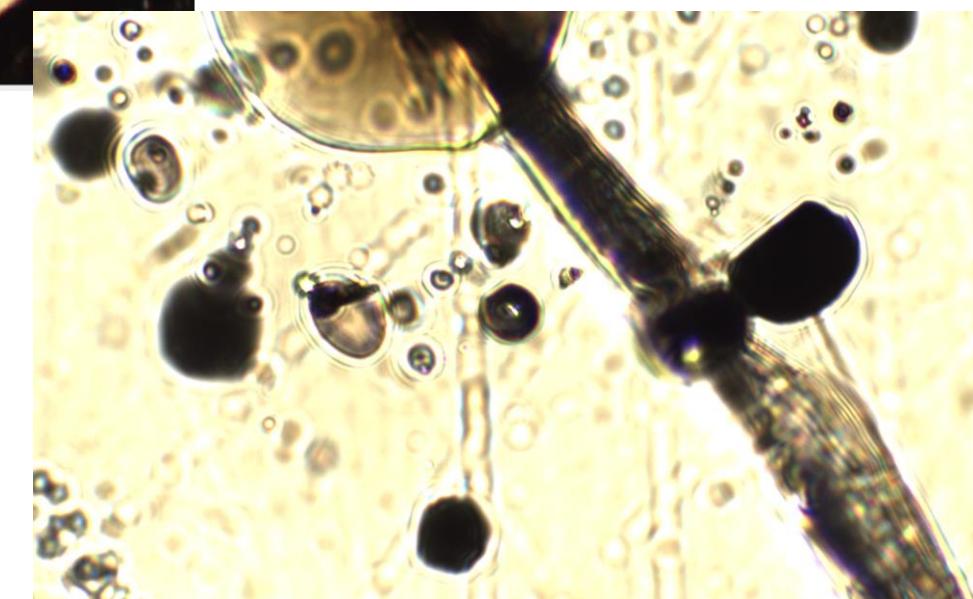
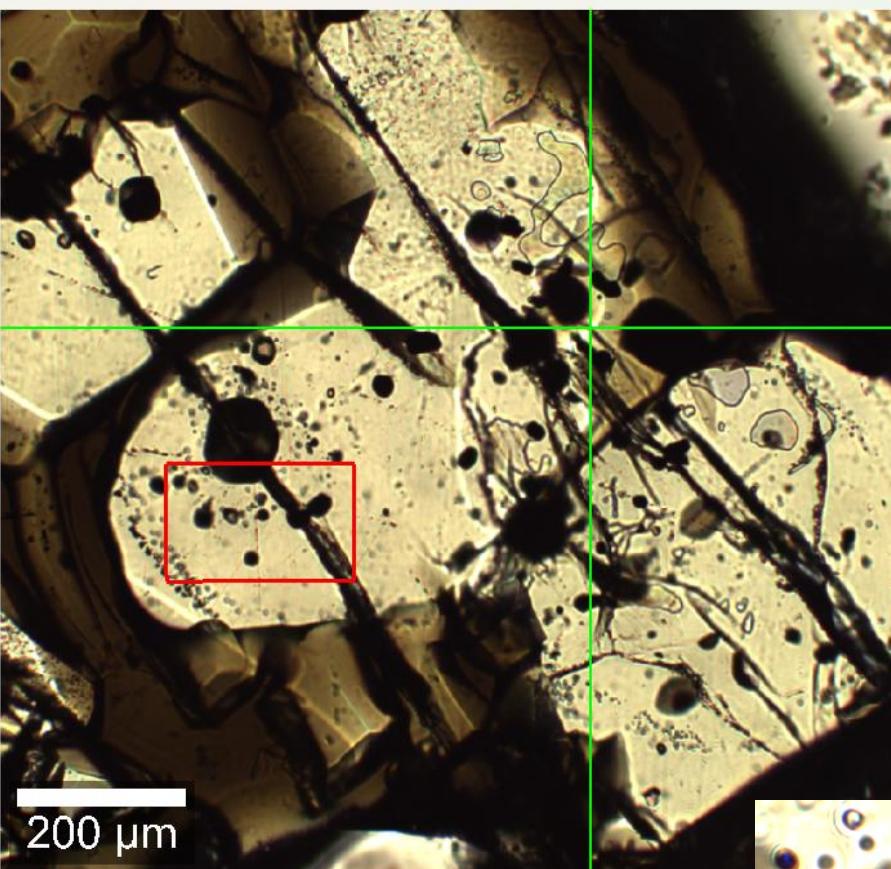
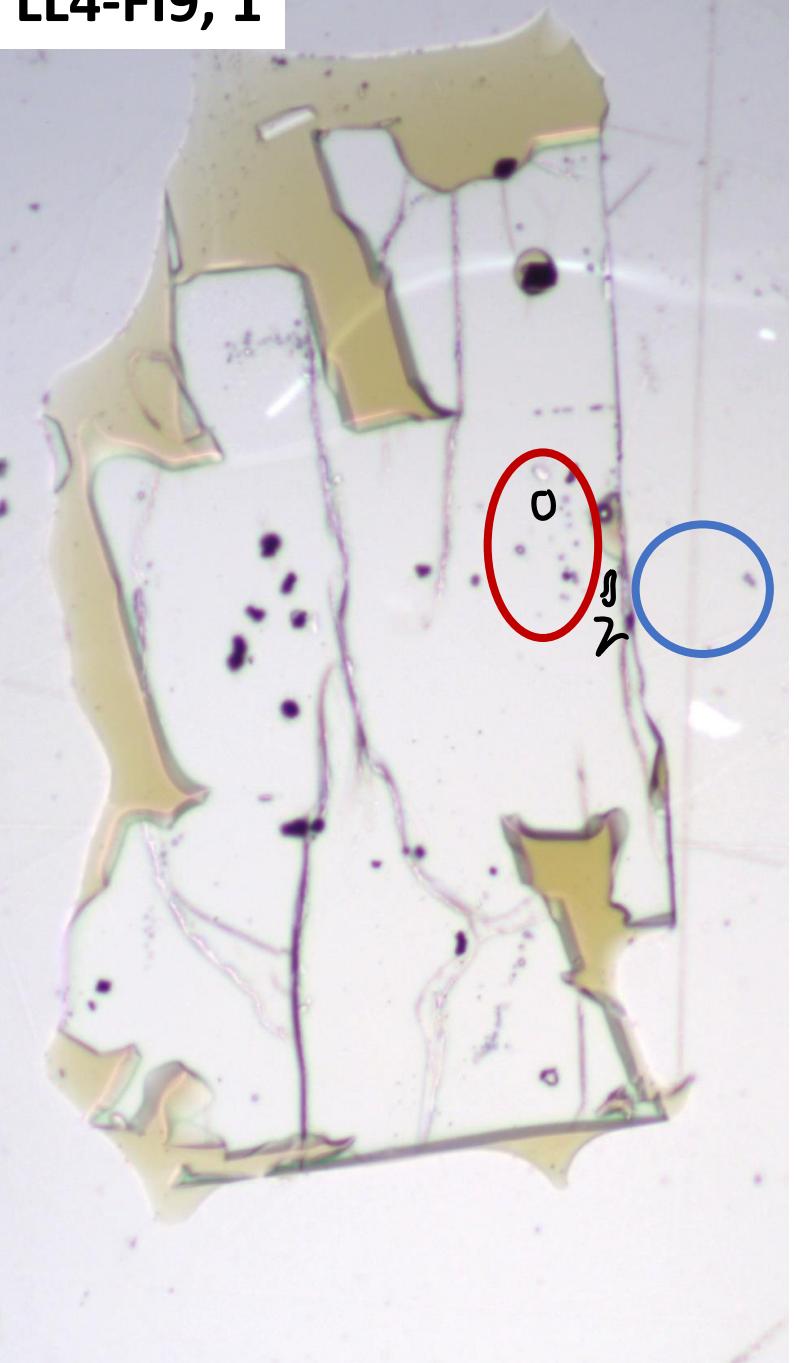
FI are on the wrong side, probably impossible to analyze,
I never did seemingly. Apparently I analyzed 1 on Oct1722 (dark blue)



LL4-FI8, 1

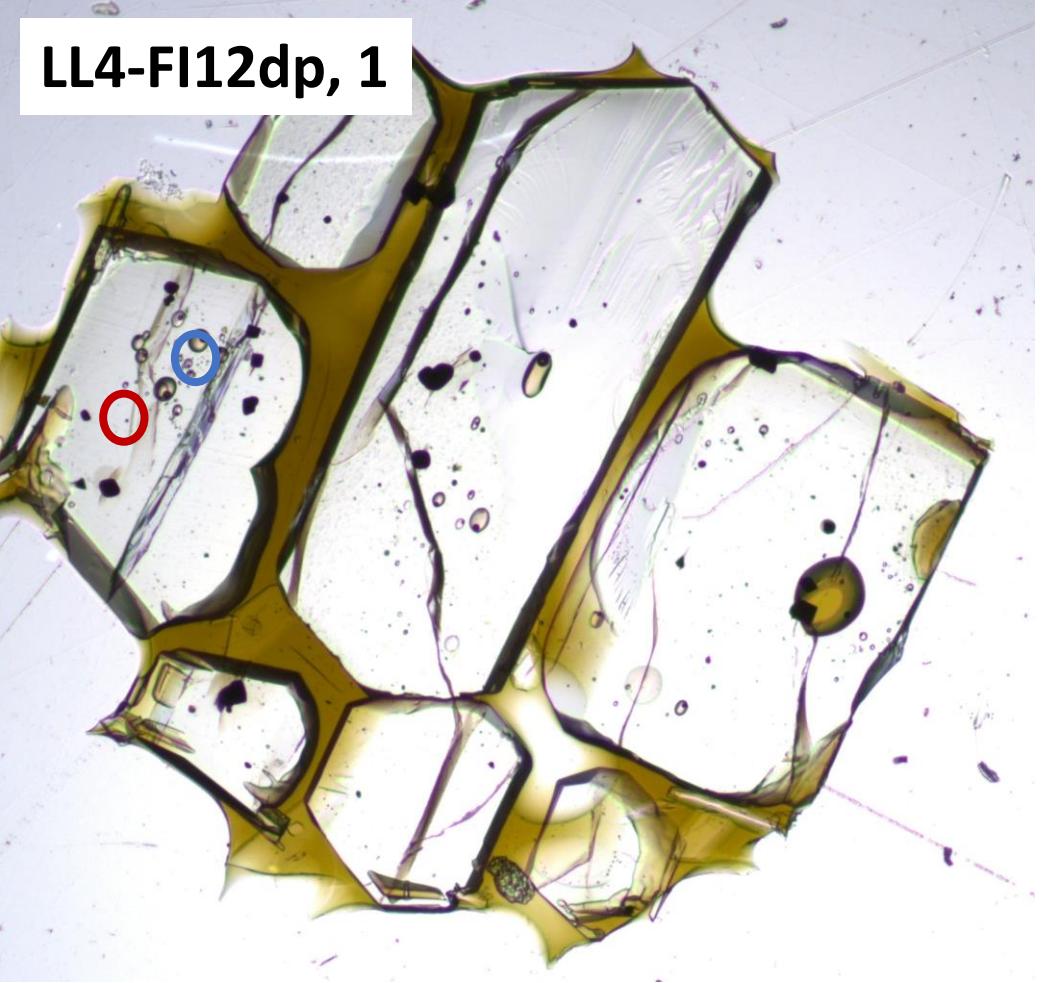


LL4-FI9, 1

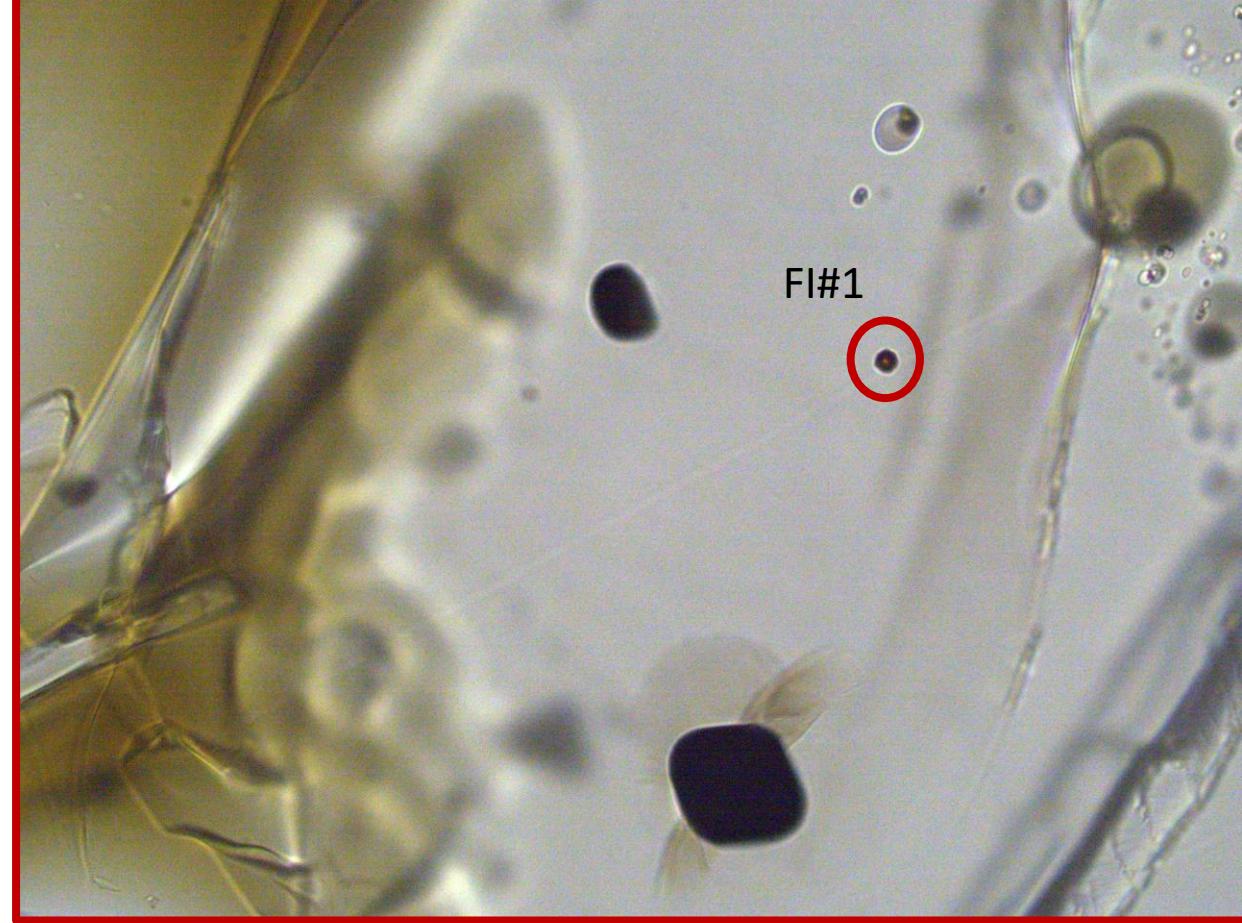


FI #1,broken off, would have been
Near the blue, but if I analyse
In the red area it should be good.

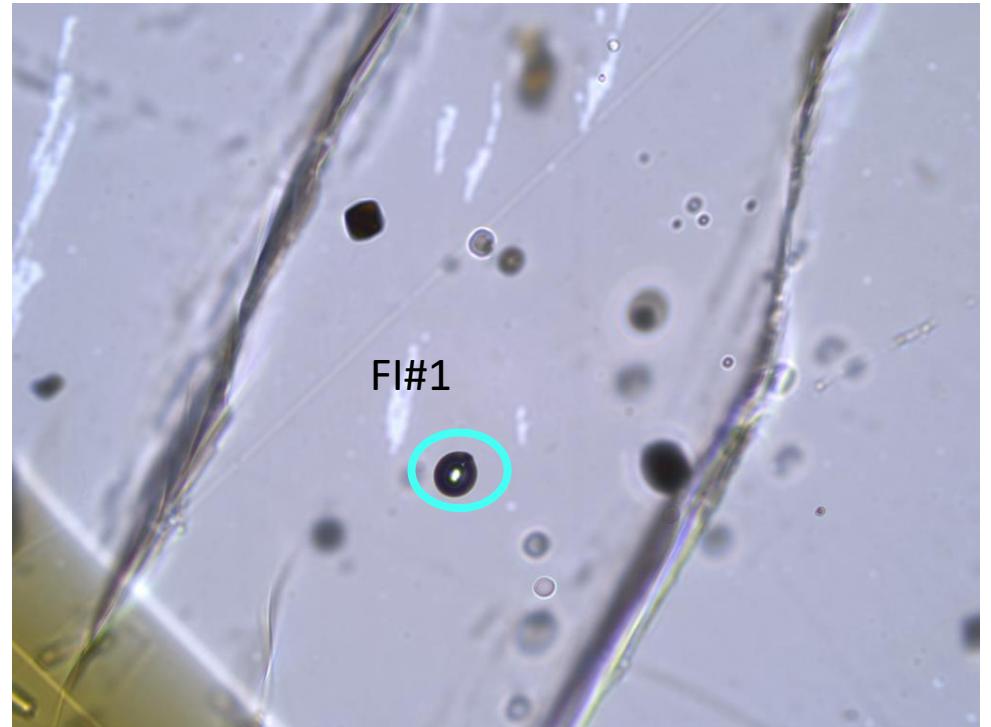
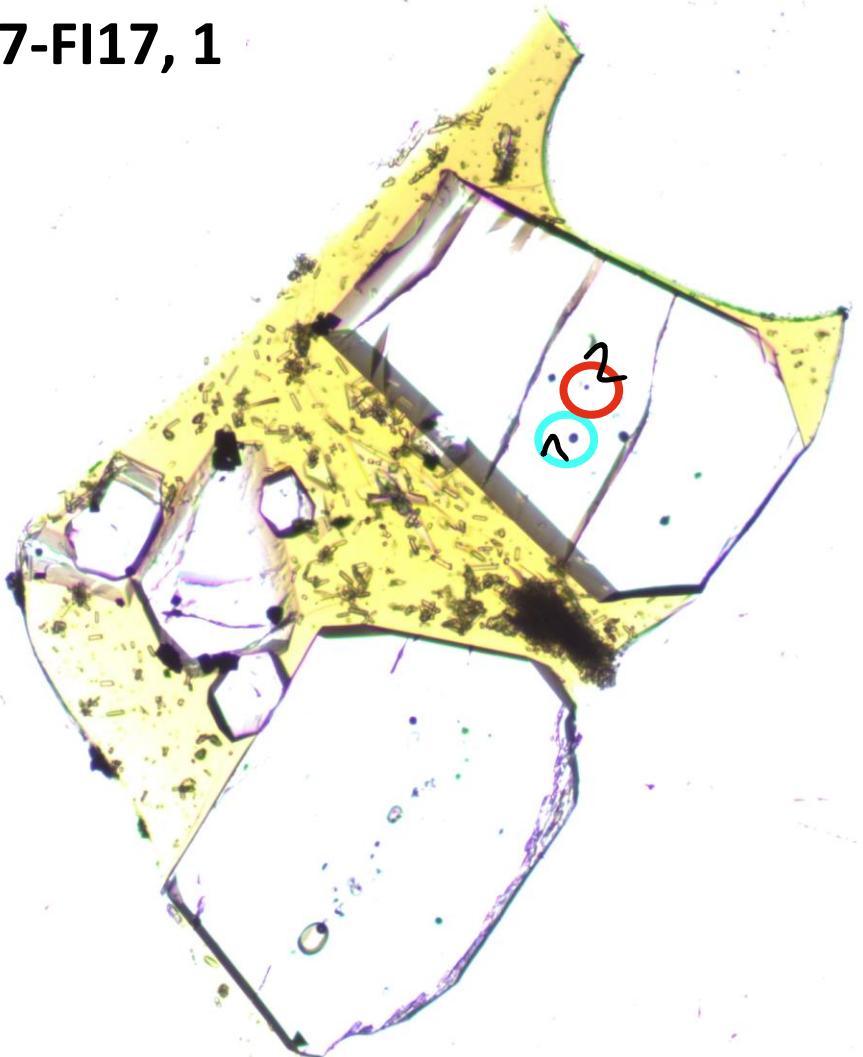
LL4-FI12dp, 1



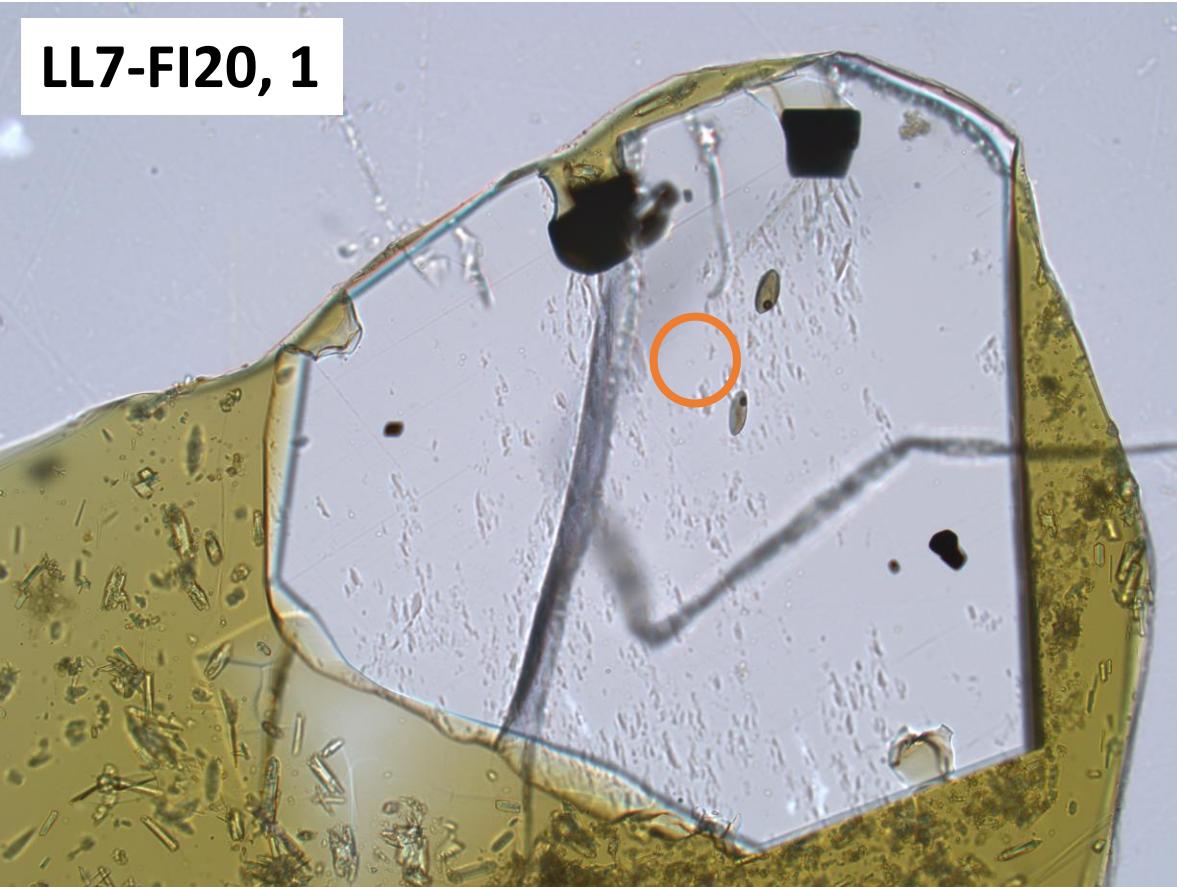
I never analyzed this



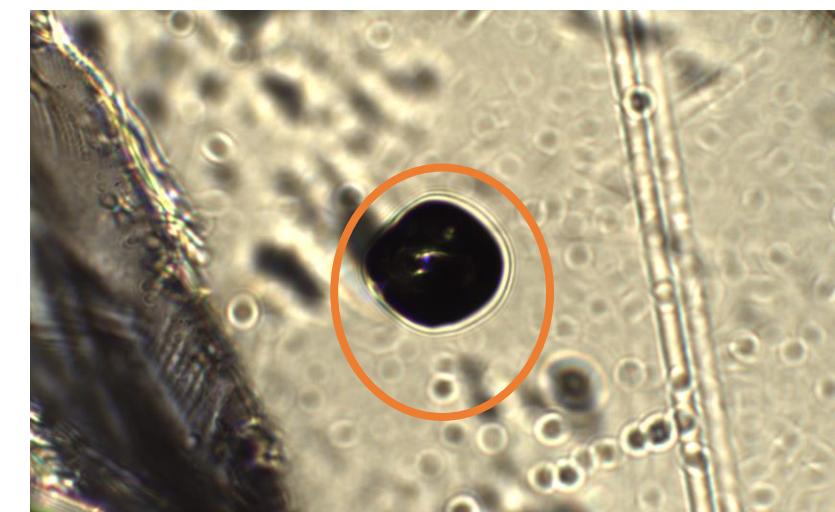
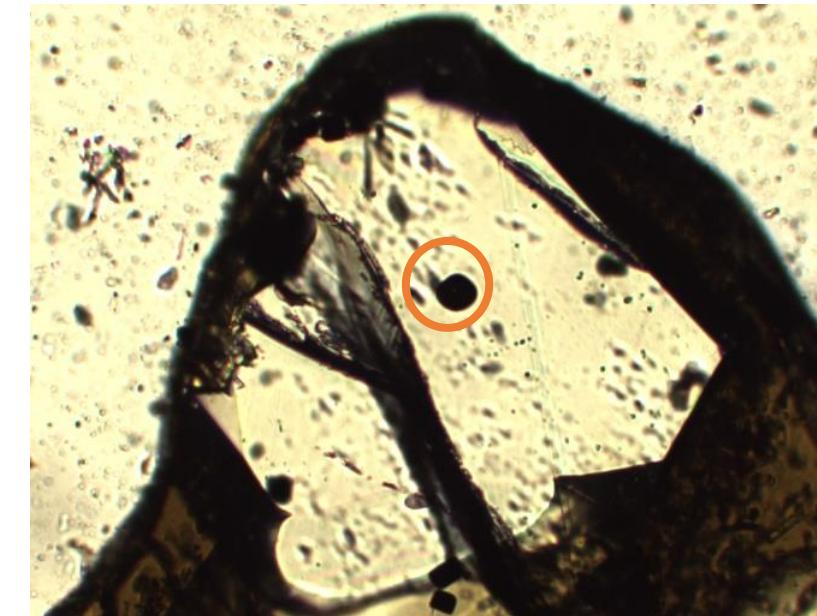
LL7-FI17, 1



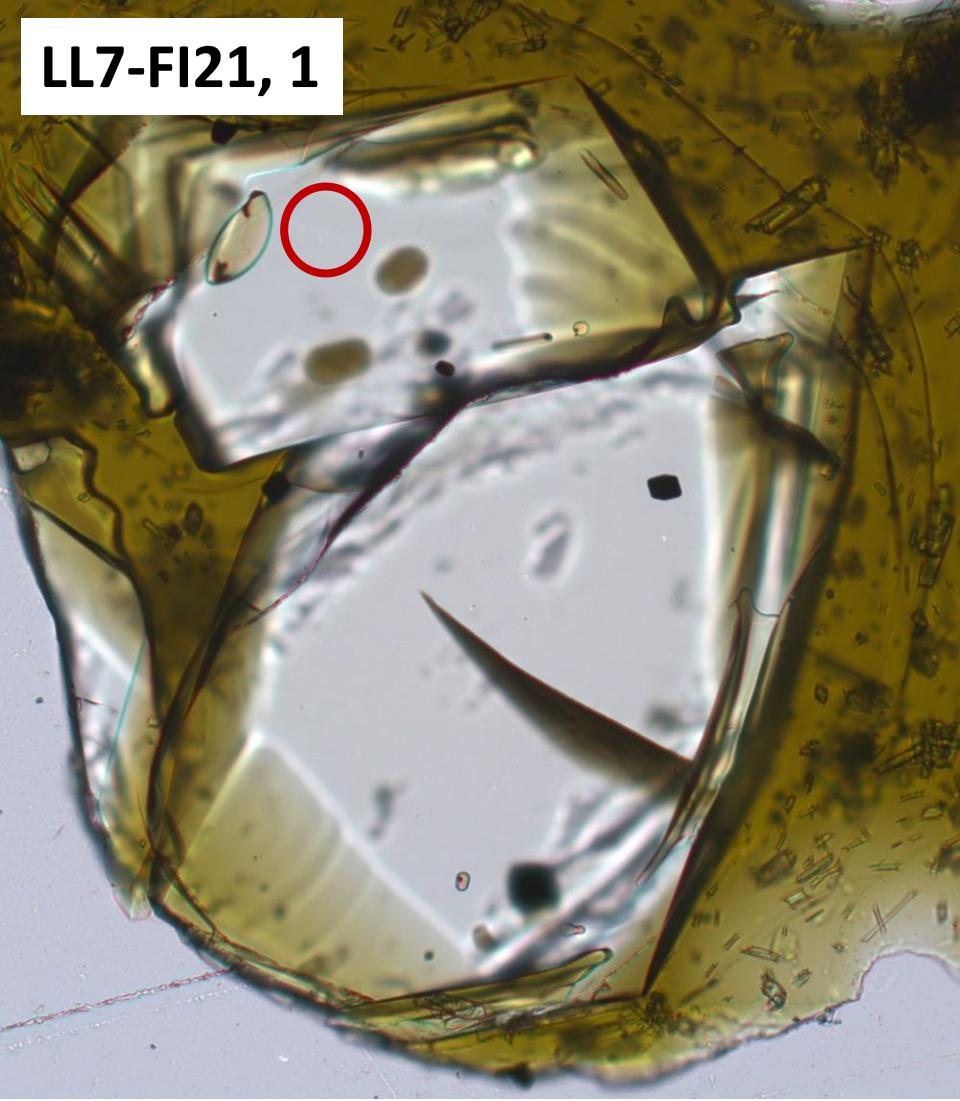
LL7-FI20, 1



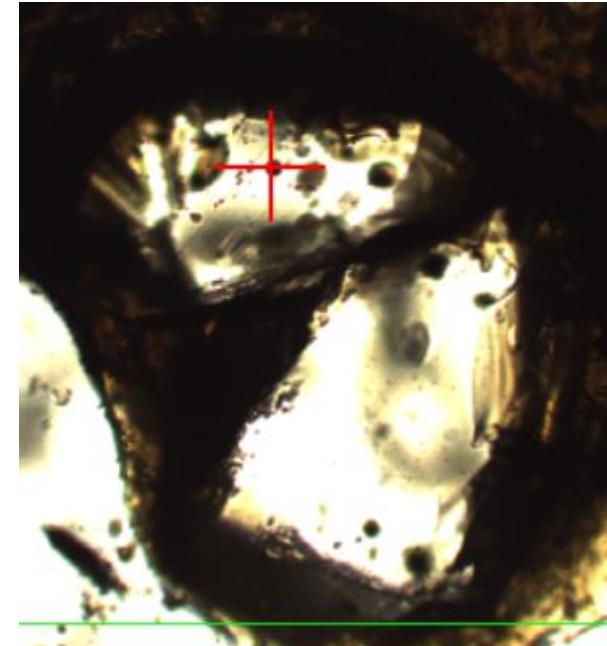
FI#1 gone



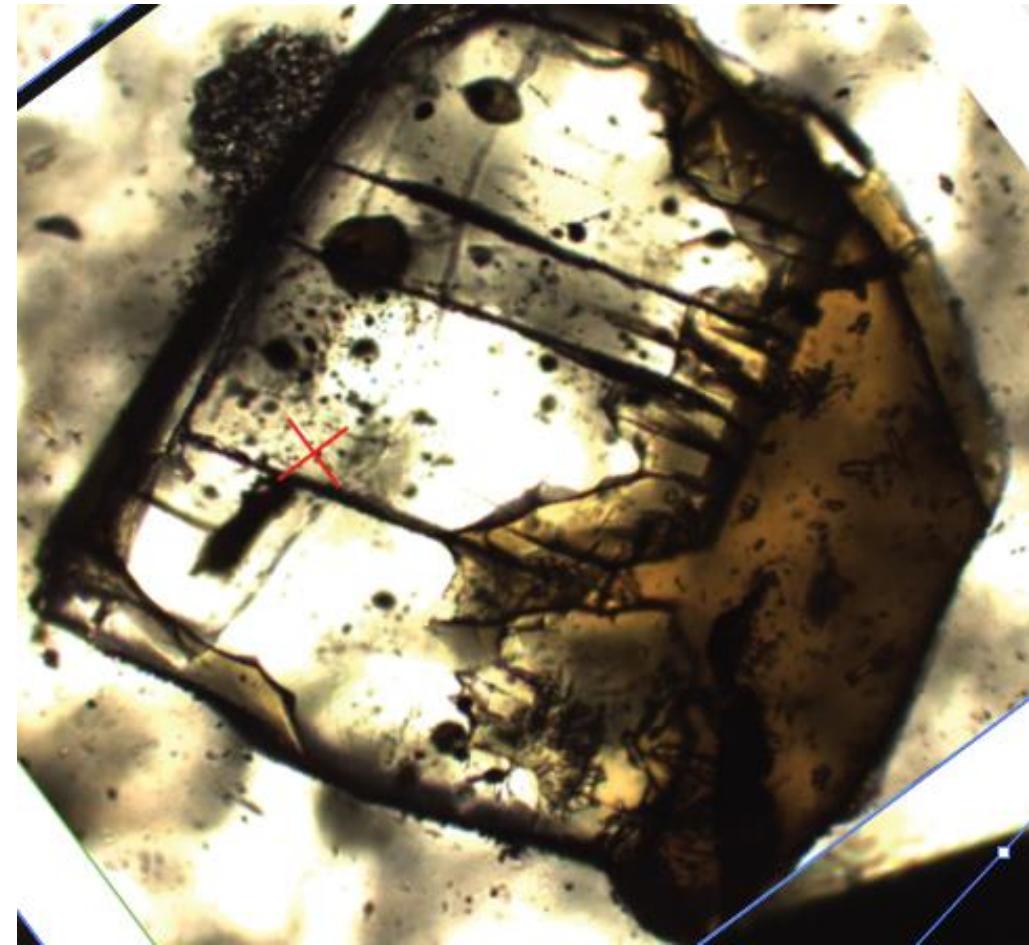
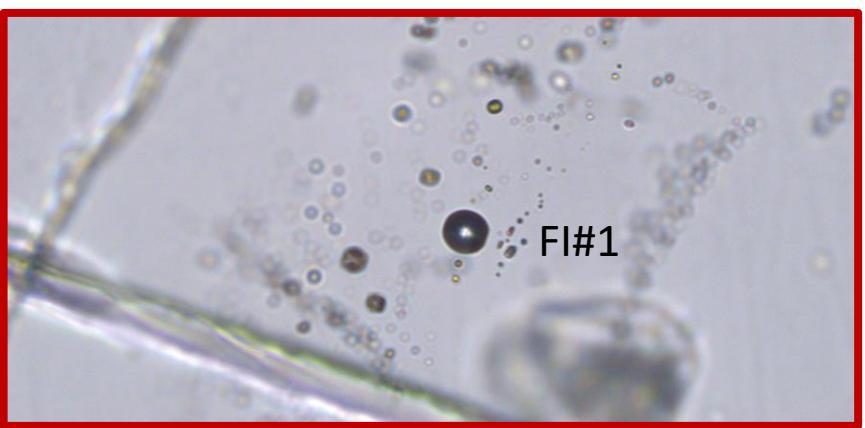
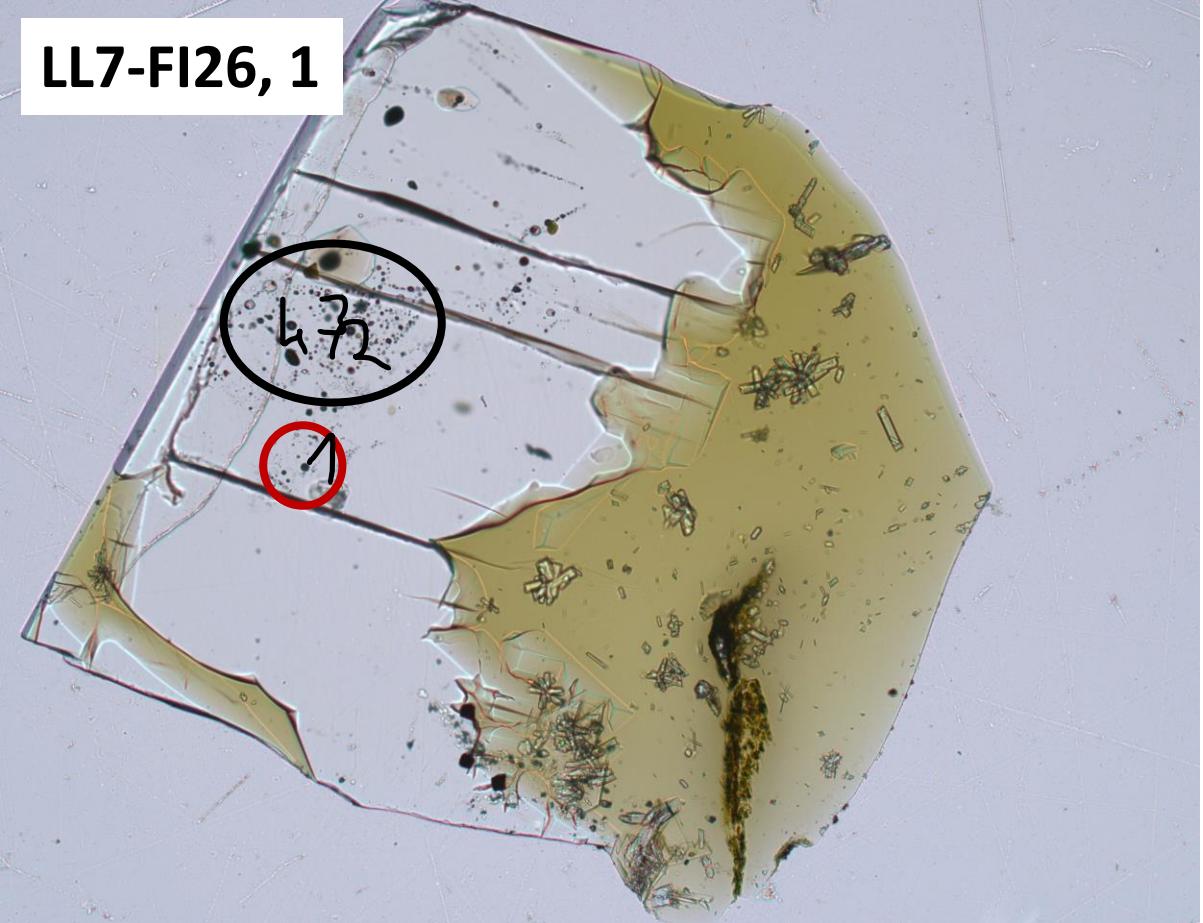
LL7-FI21, 1



FI#1 gone

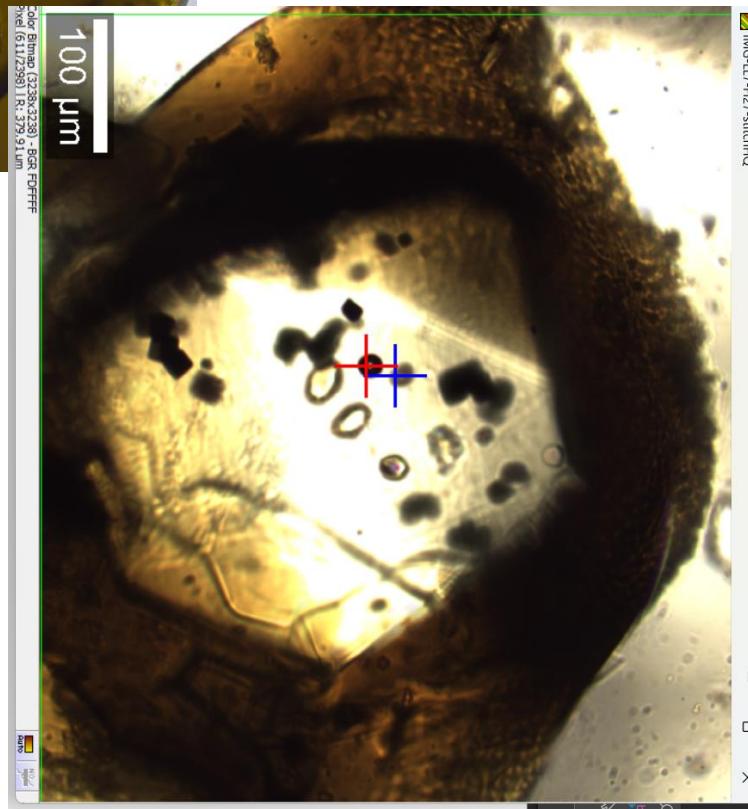
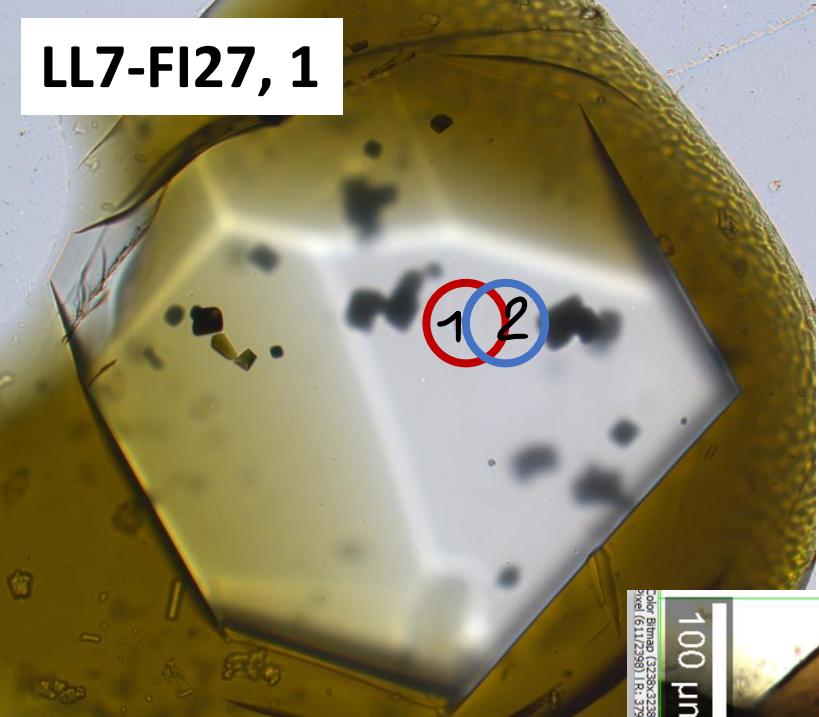


LL7-FI26, 1



This crystal has a whole cluster with various amounts of melt

LL7-FI27, 1



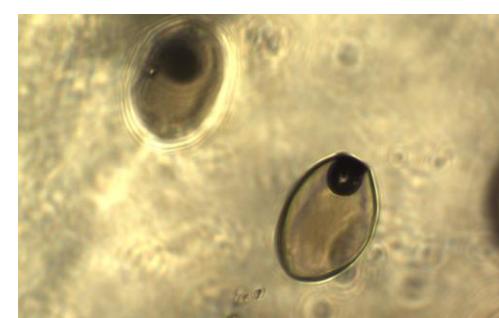
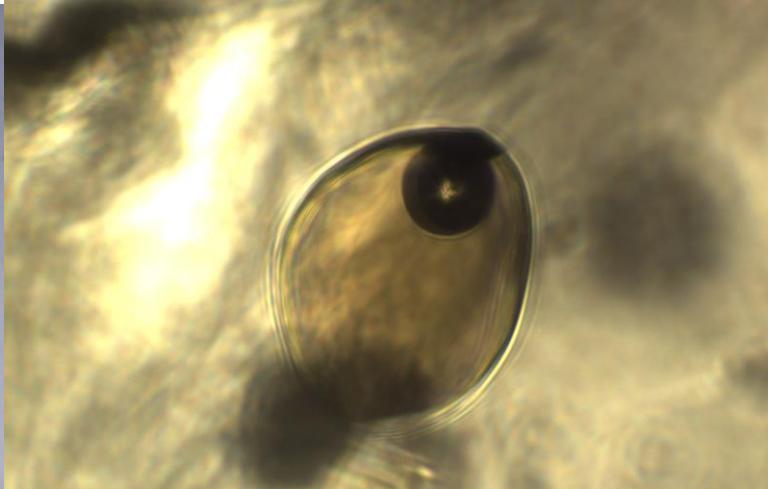
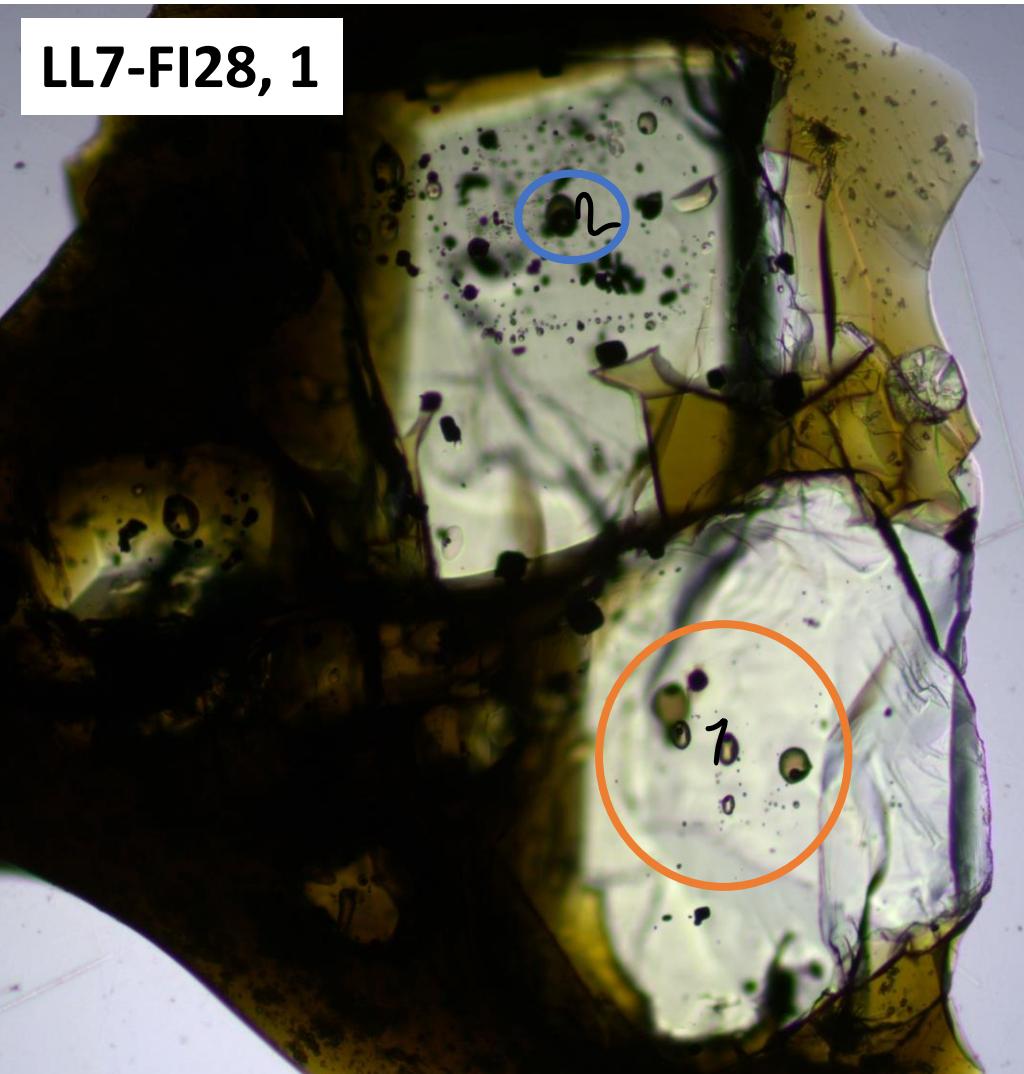
FI#1, popped now



FI#2, gone

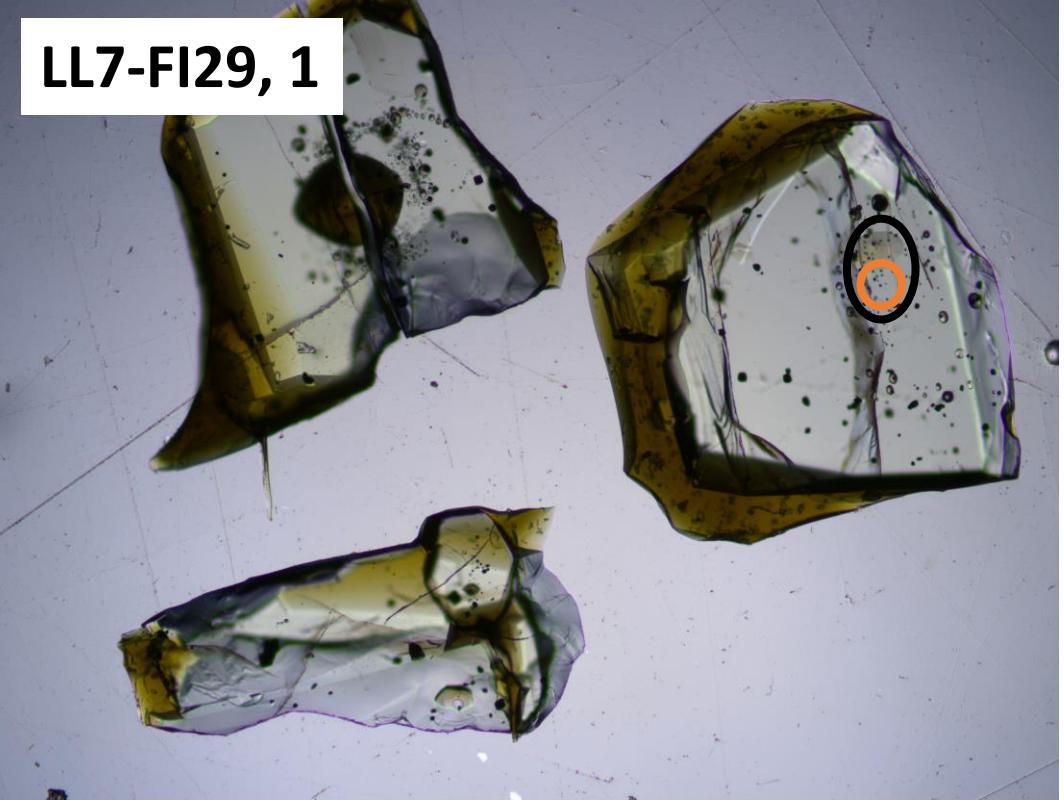


LL7-FI28, 1

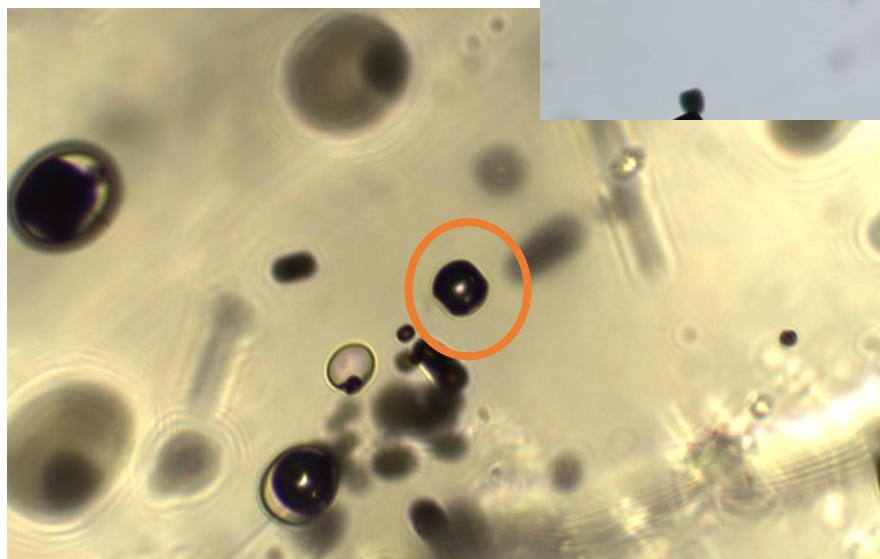
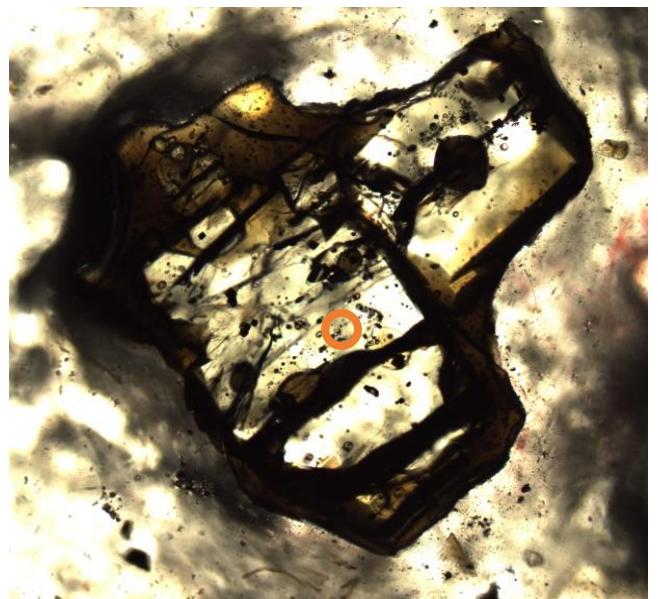
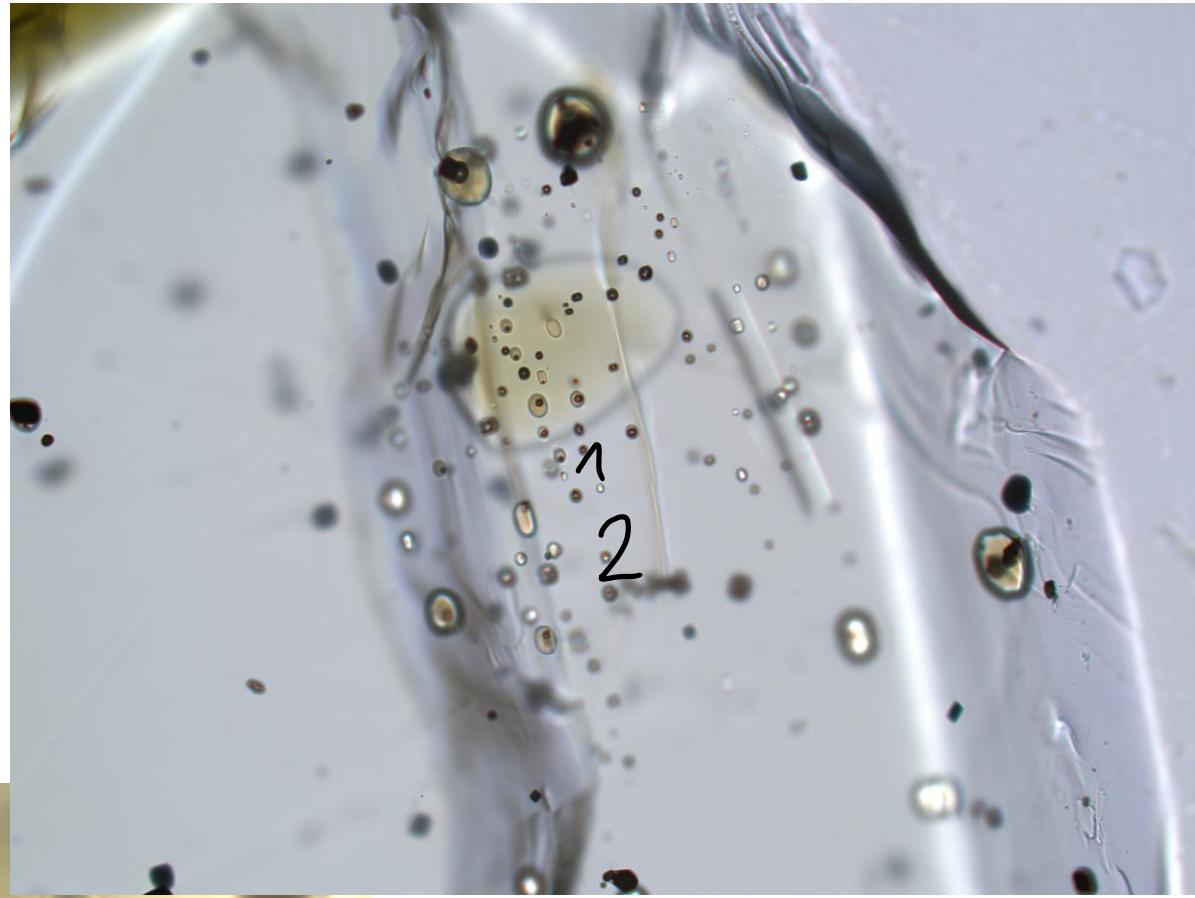


Mis only, maybe has some tiny FI in top crystal but not analyzed

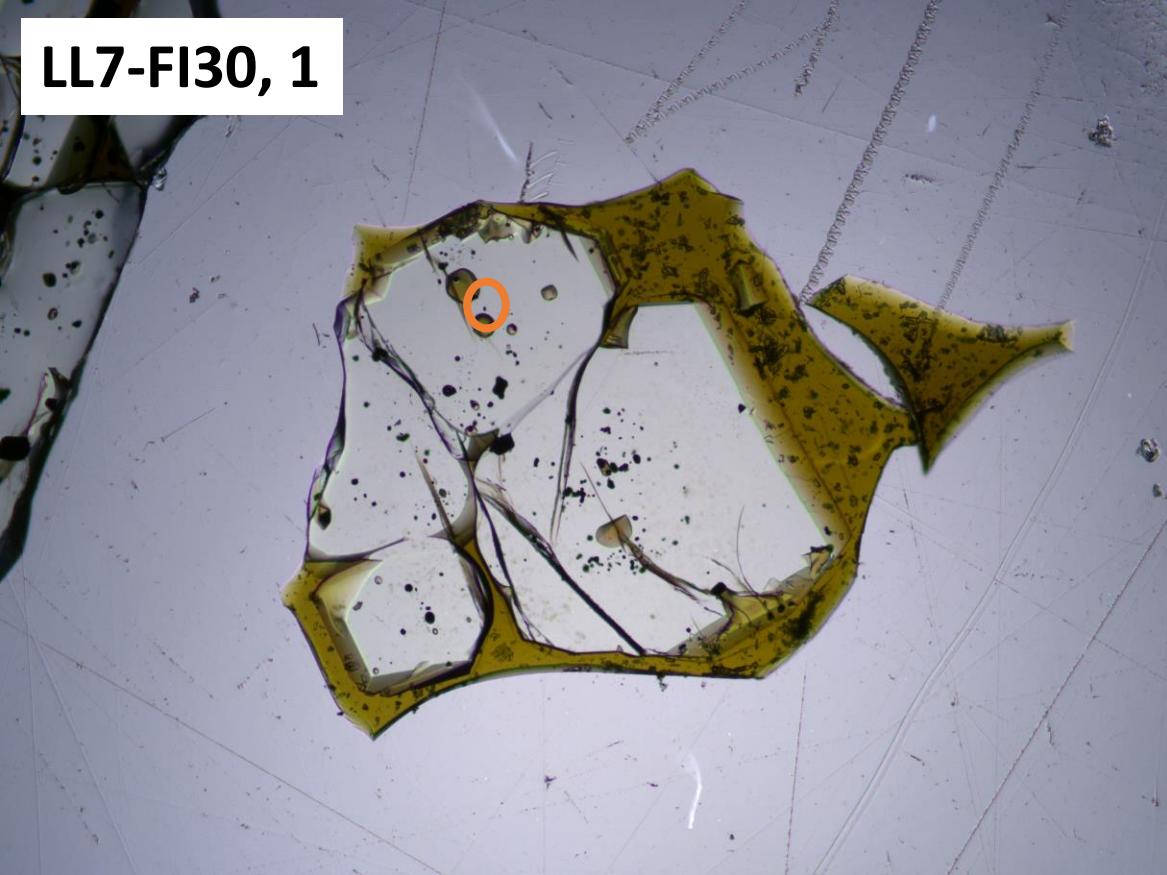
LL7-FI29, 1



FI# 1 gone. But there is a cluster visible with lots of FI

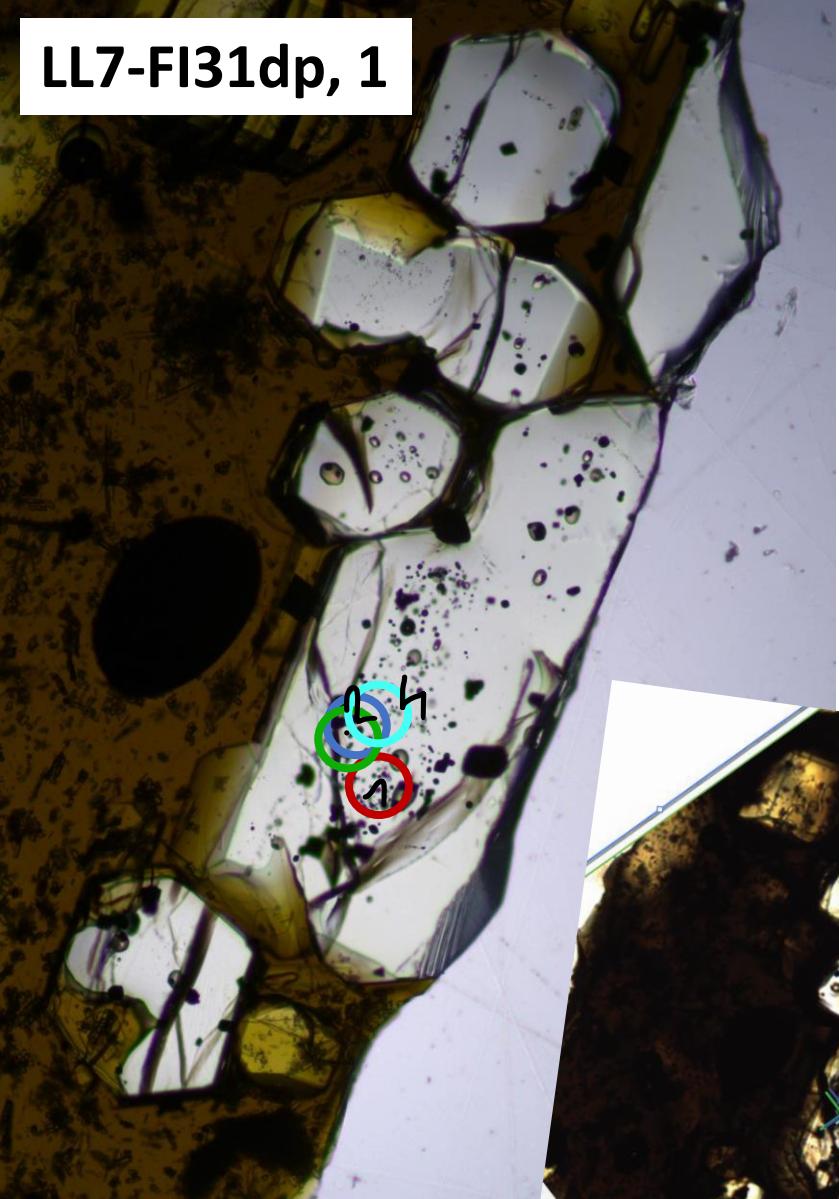


LL7-FI30, 1

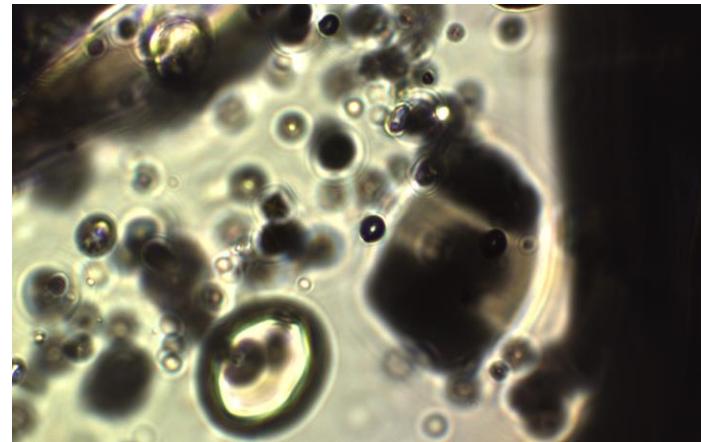


FI#1 never analyzed, attached to spinel

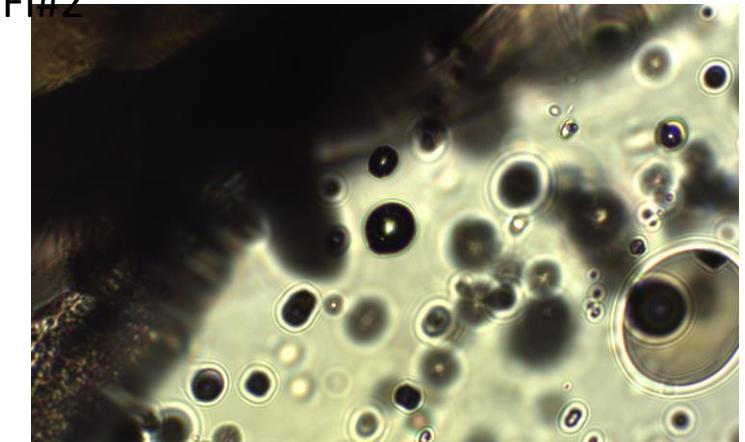
LL7-FI31dp, 1



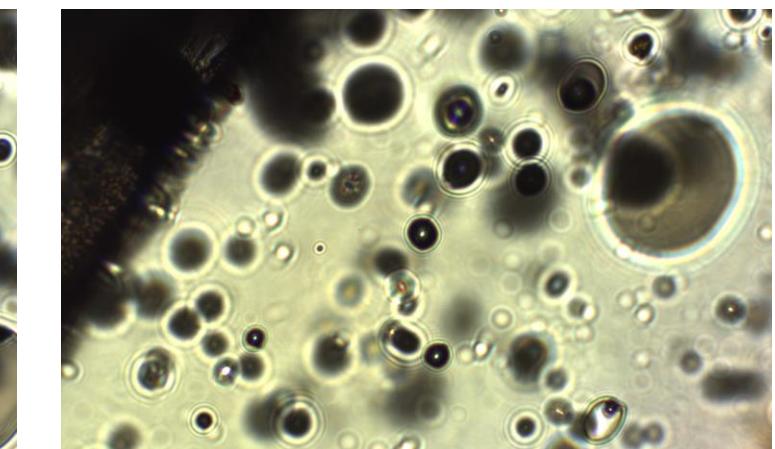
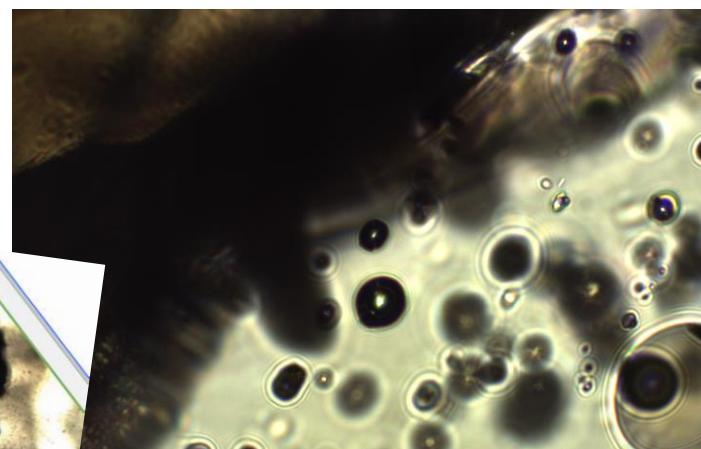
FI#1



FI#2

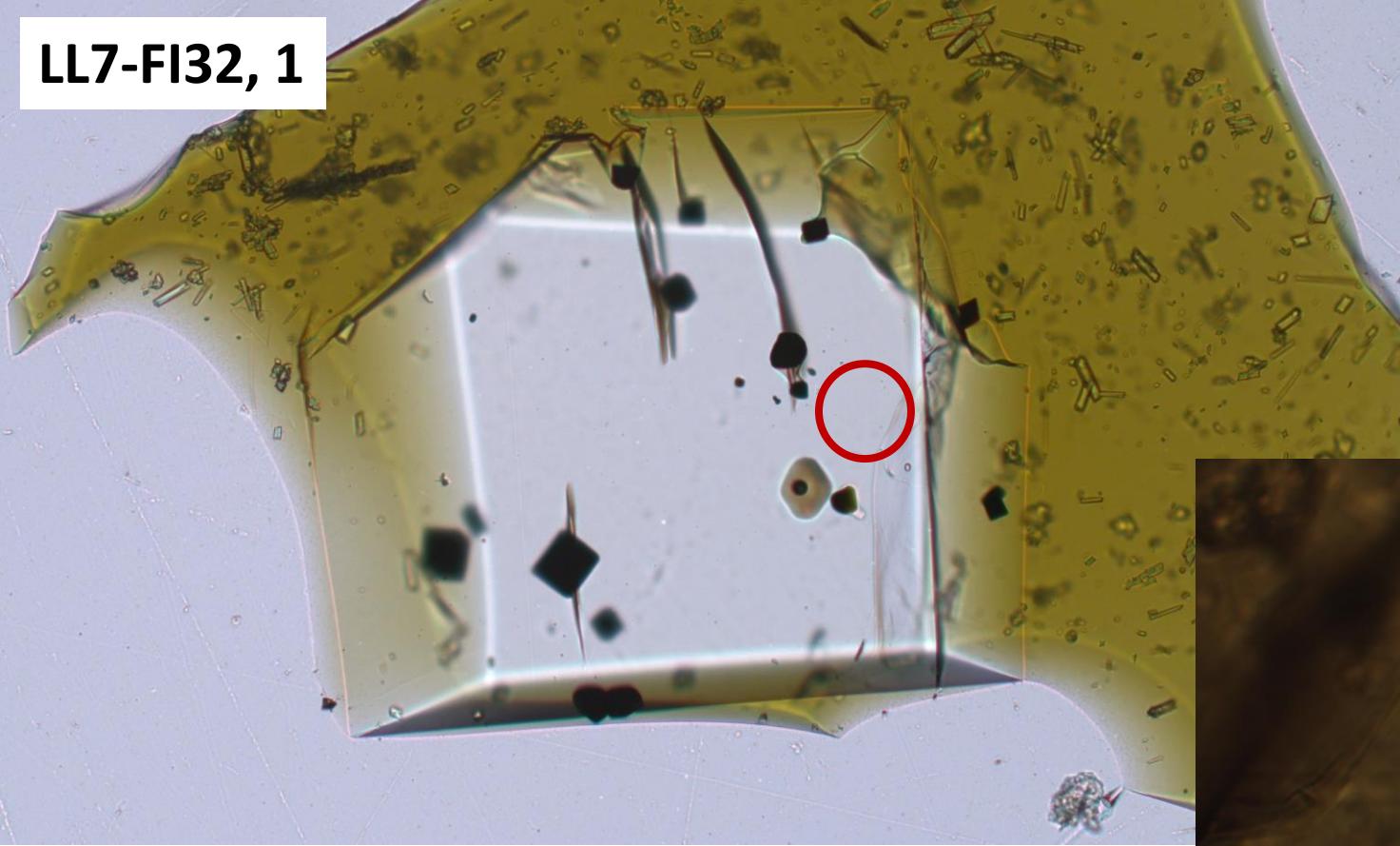


FI#3

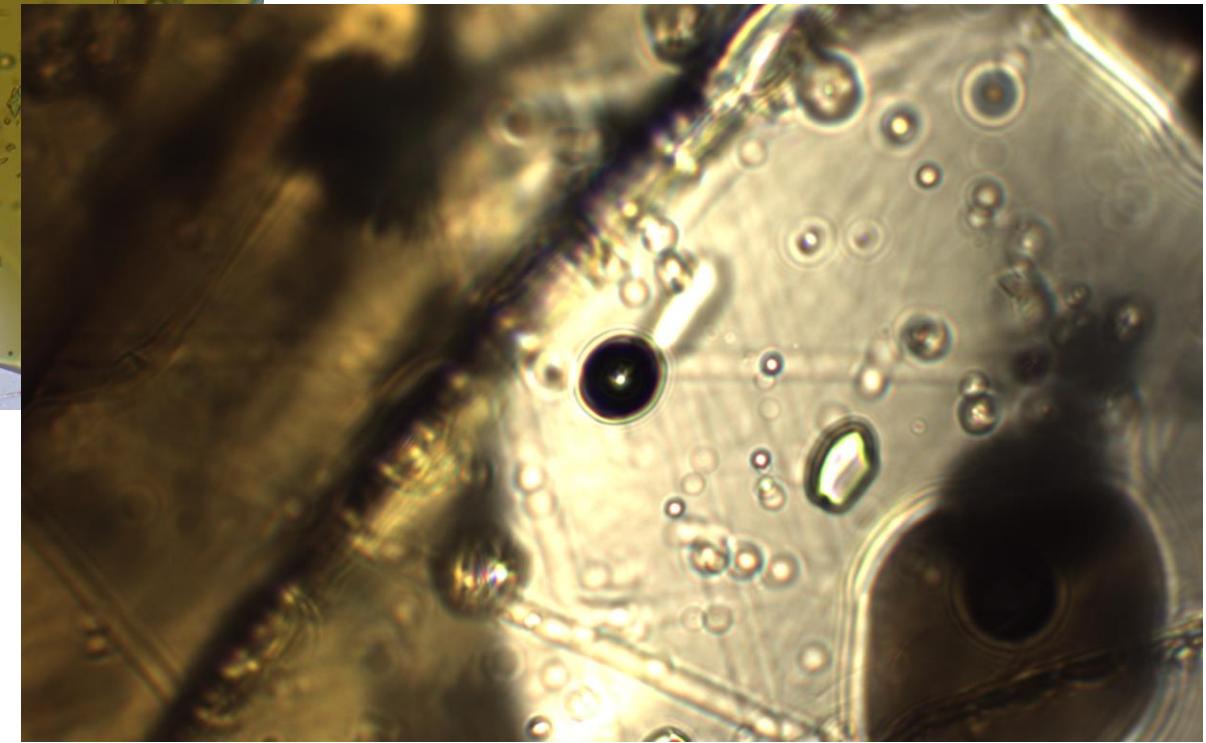


Cluster, looks like it's following growth zones

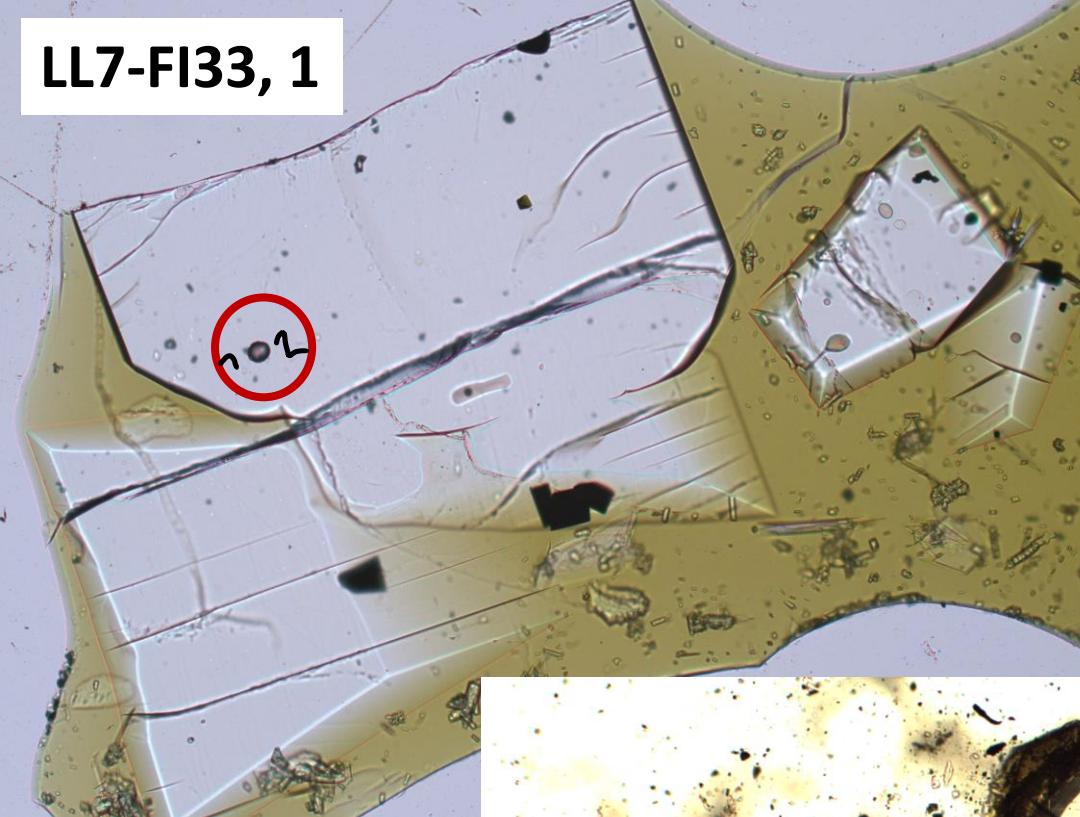
LL7-FI32, 1



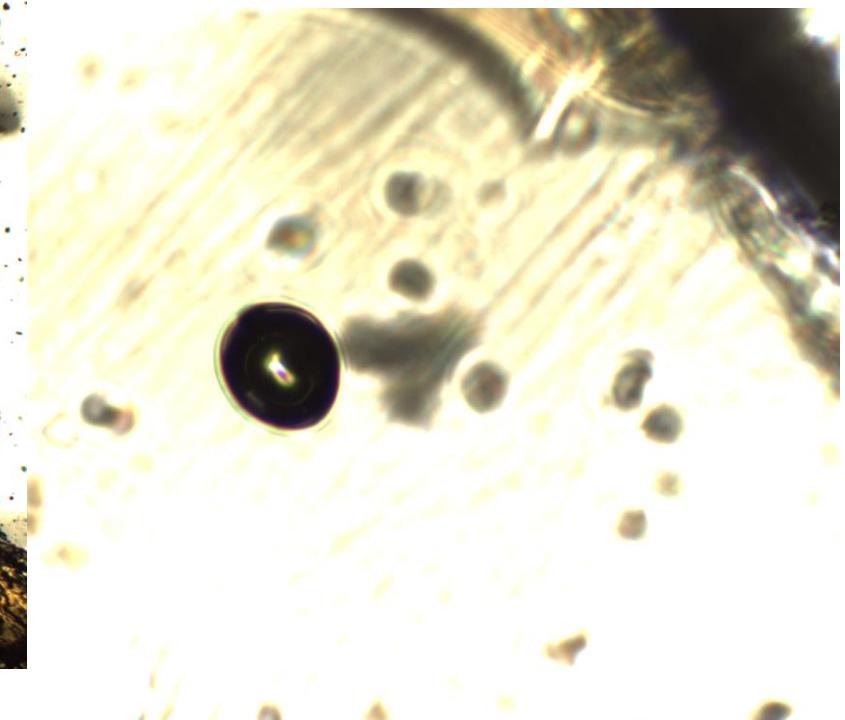
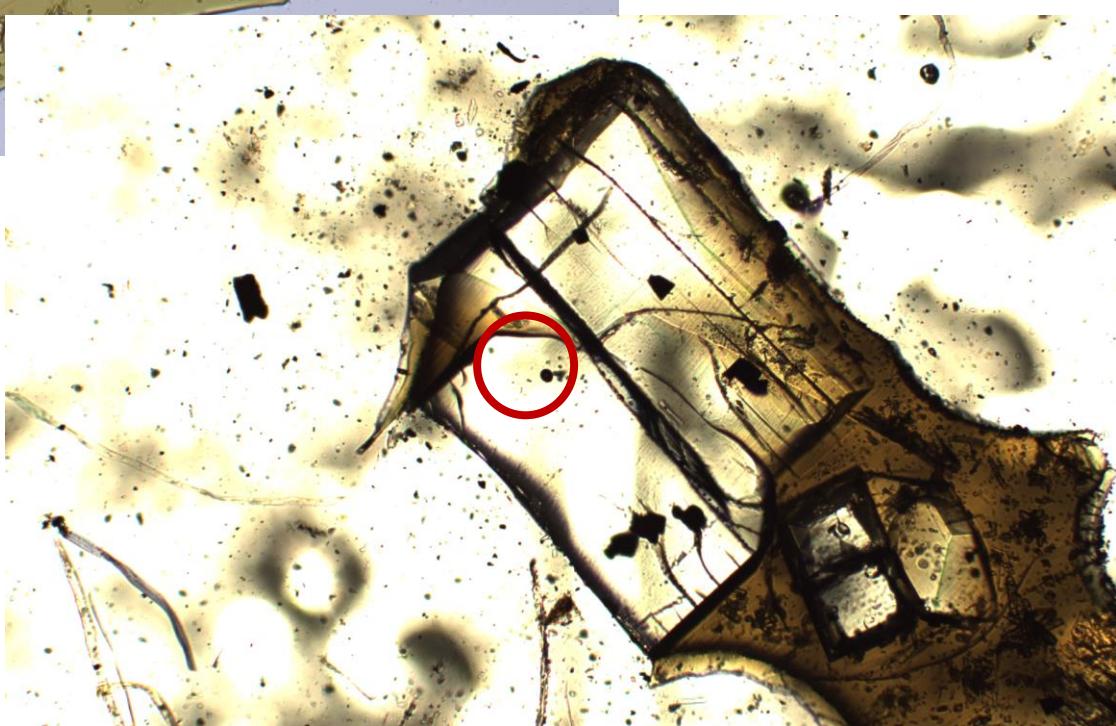
FI#1 gone



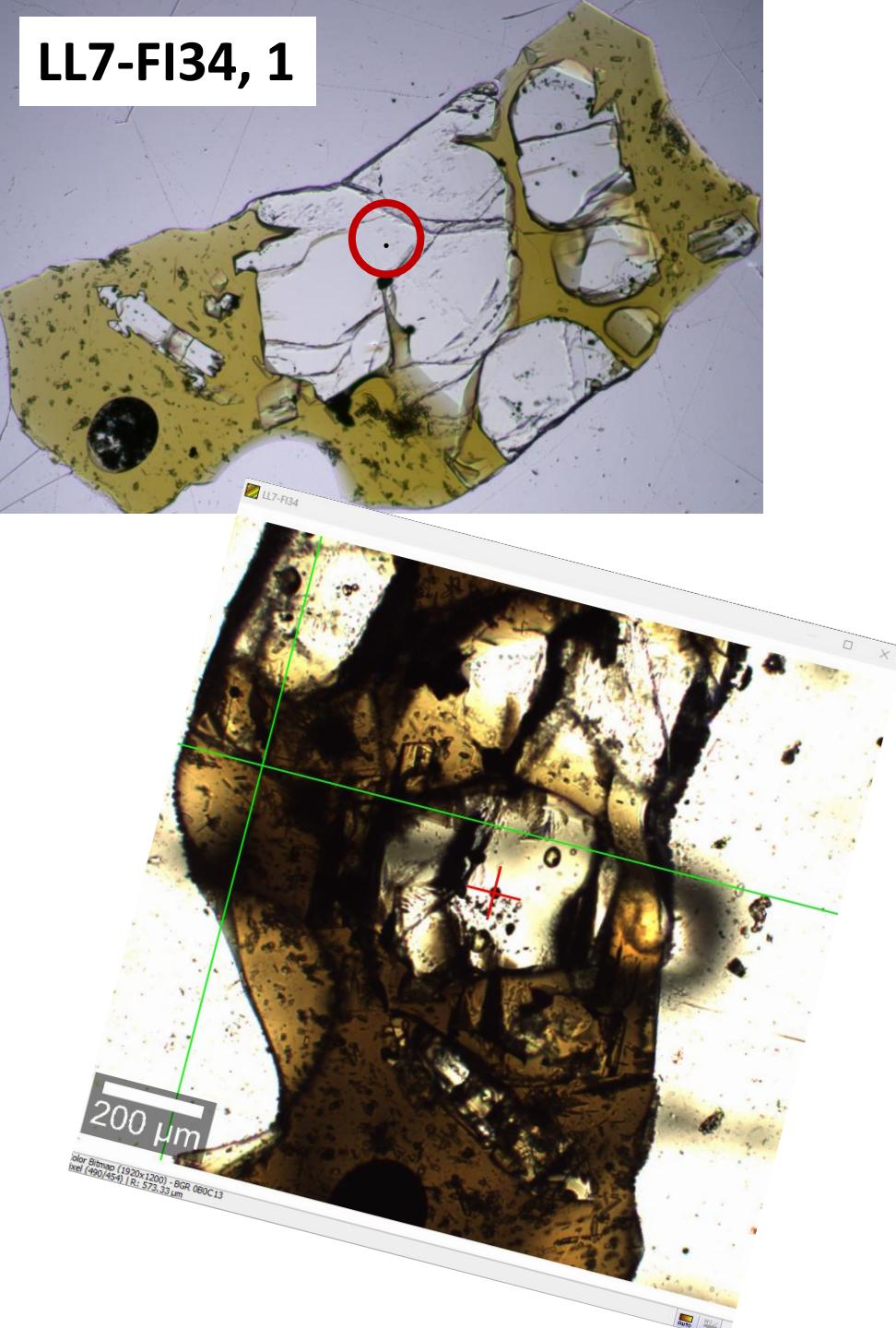
LL7-FI33, 1



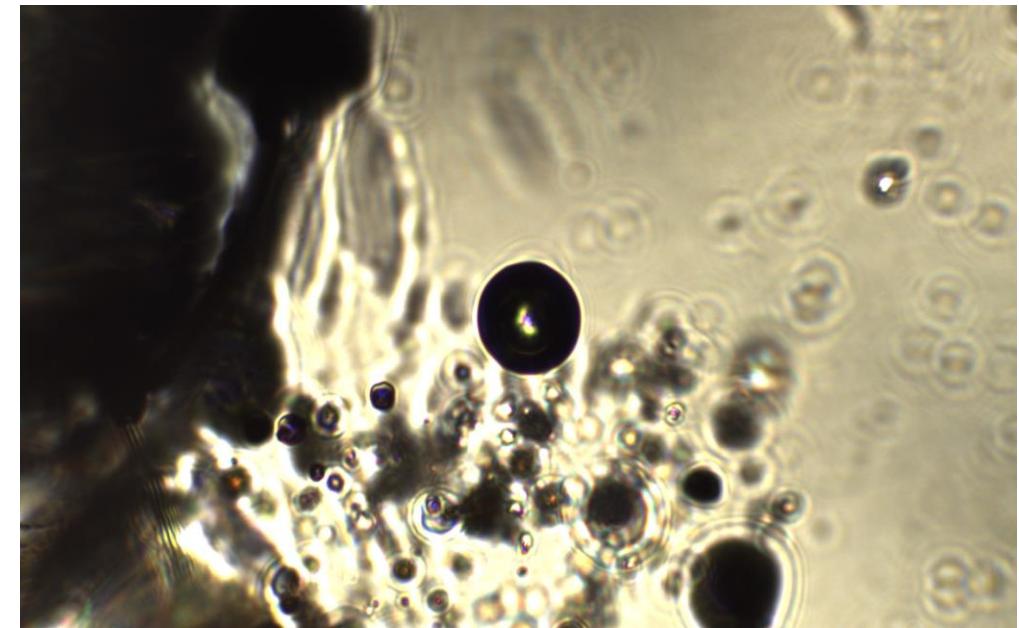
FI#1 popped



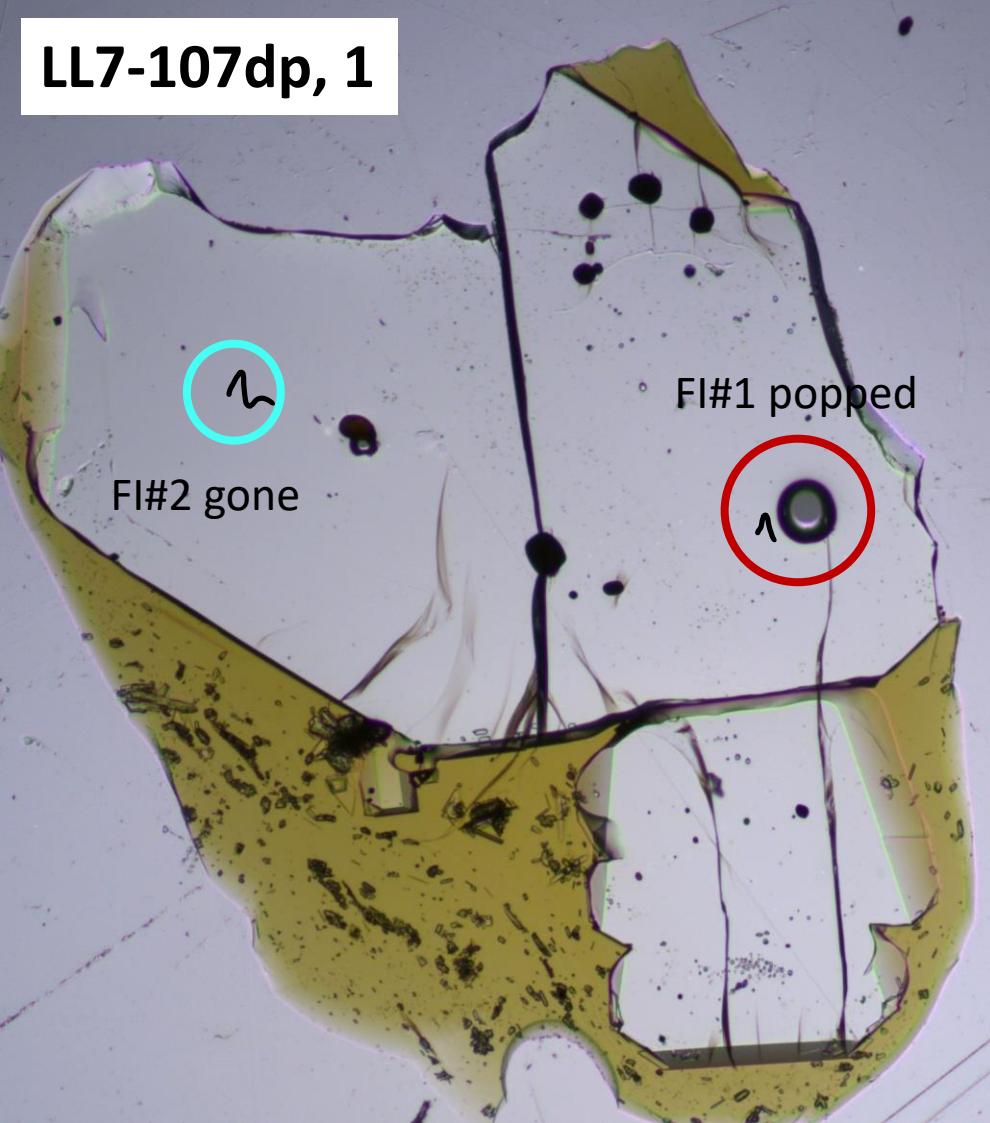
LL7-FI34, 1



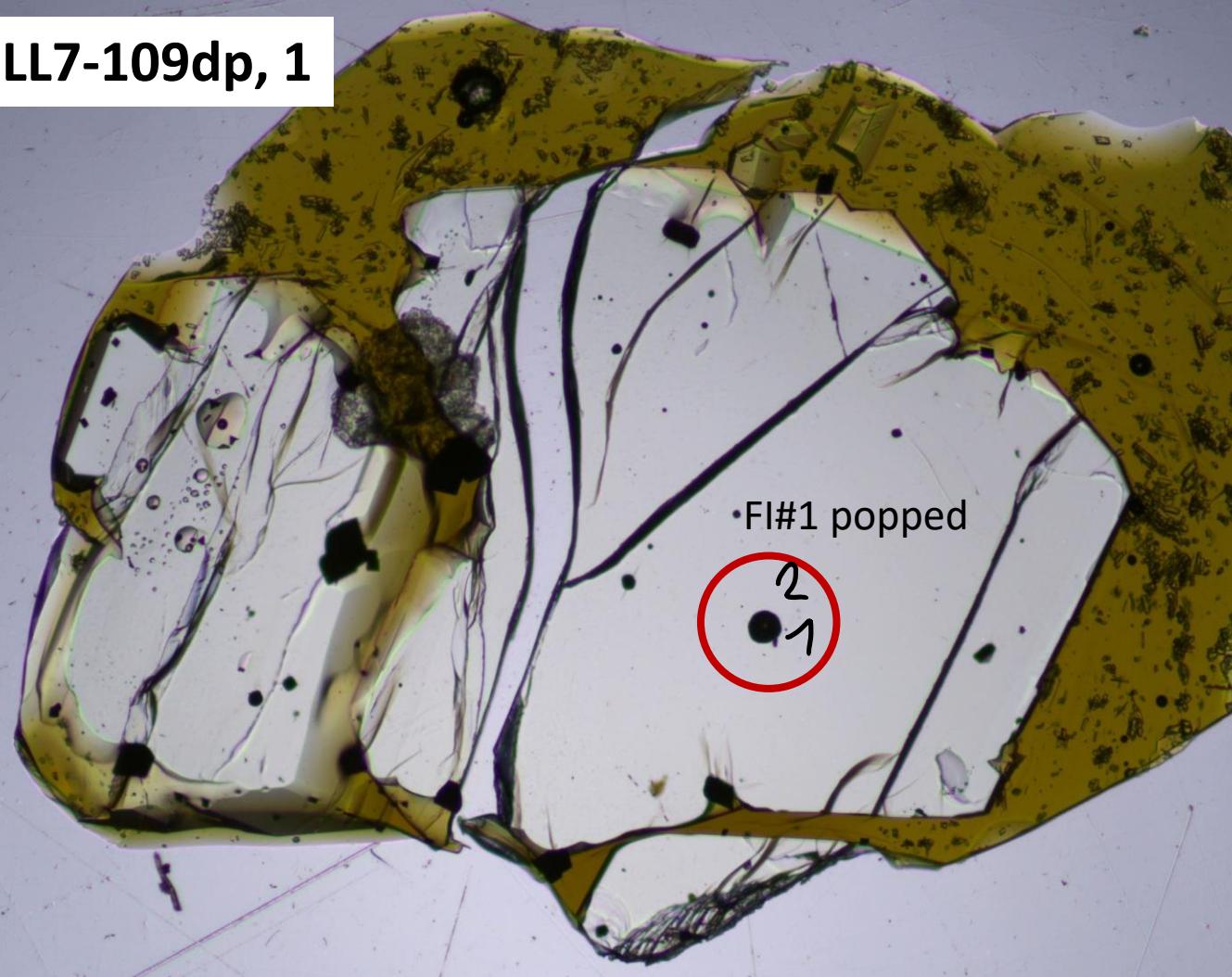
FI#1 gone



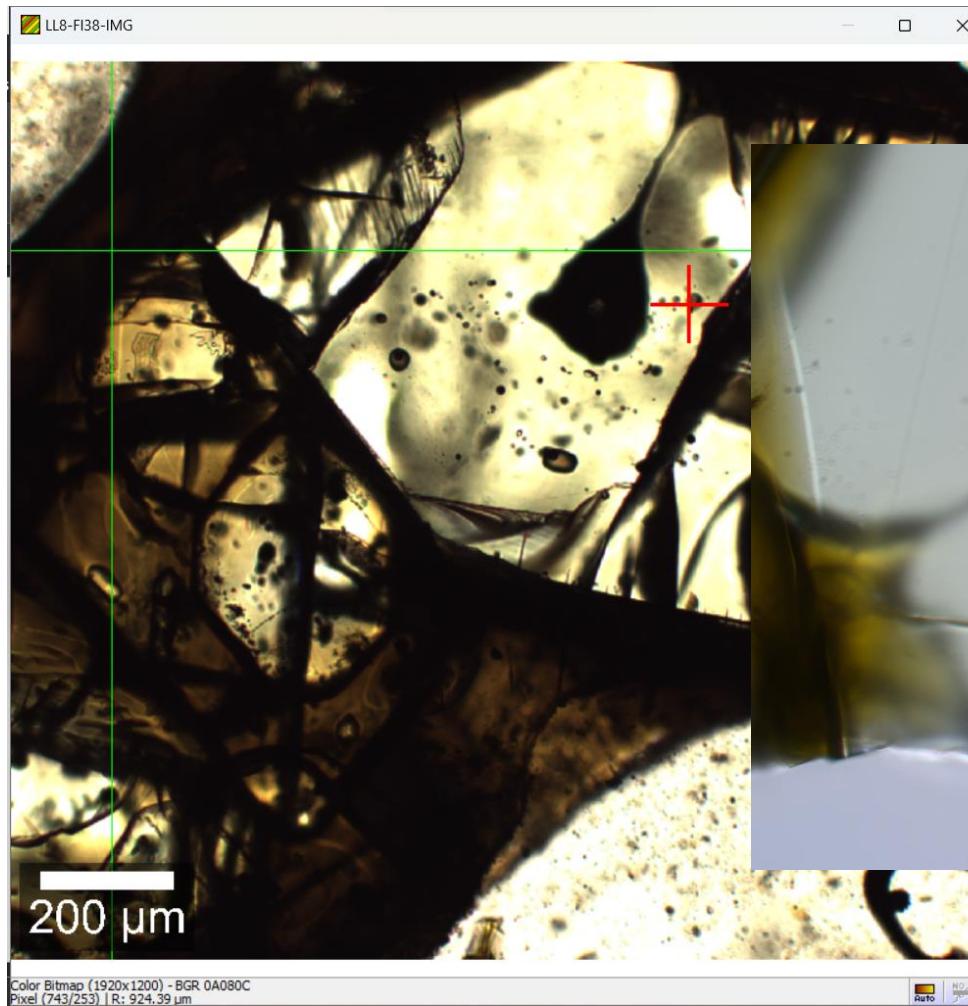
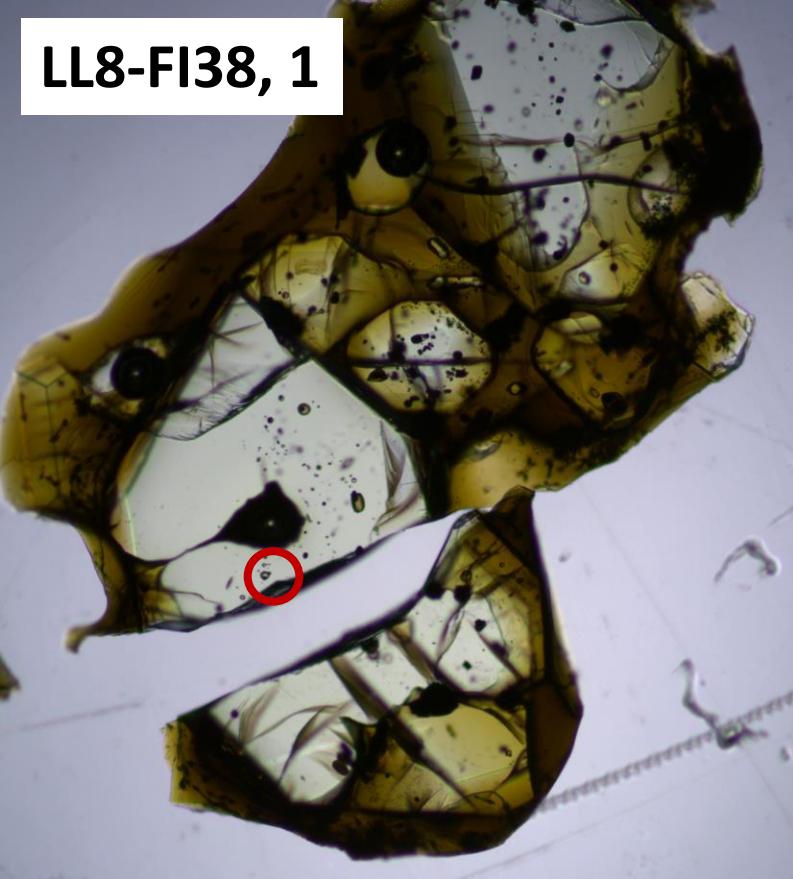
LL7-107dp, 1



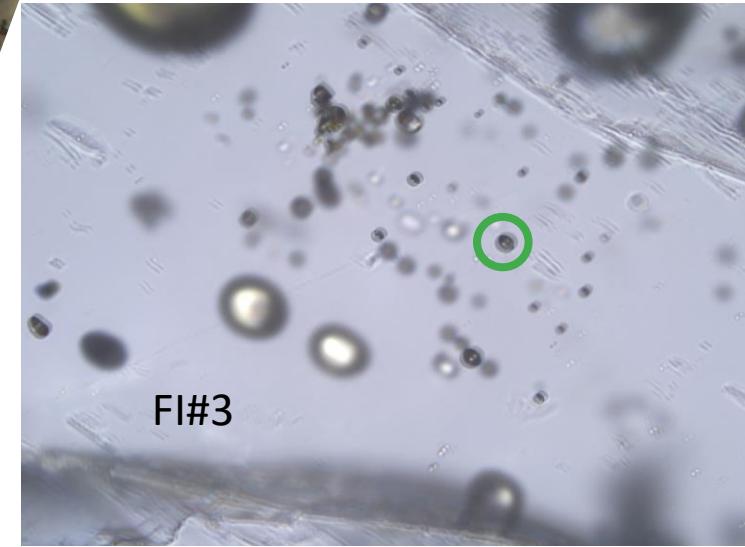
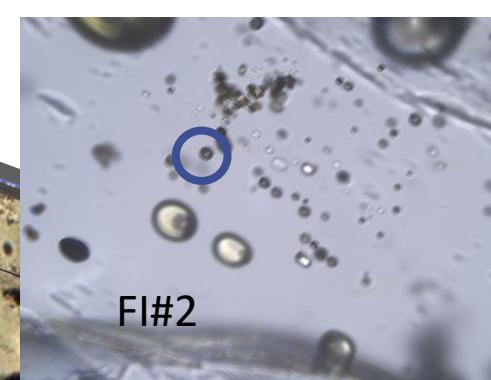
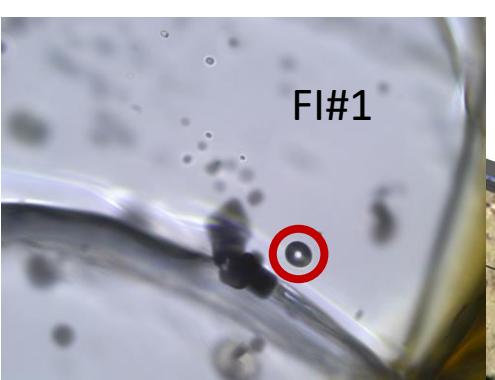
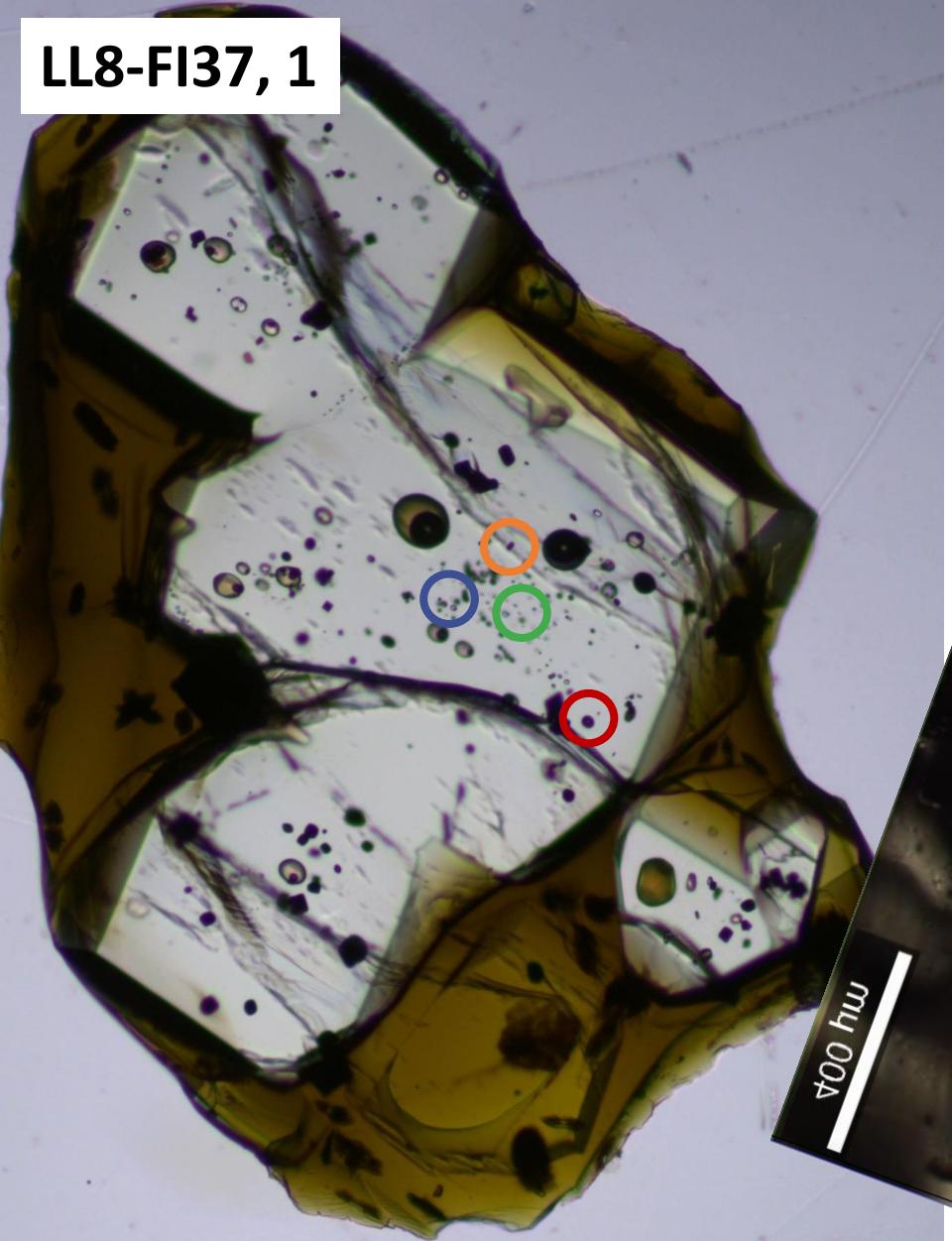
LL7-109dp, 1



LL8-FI38, 1

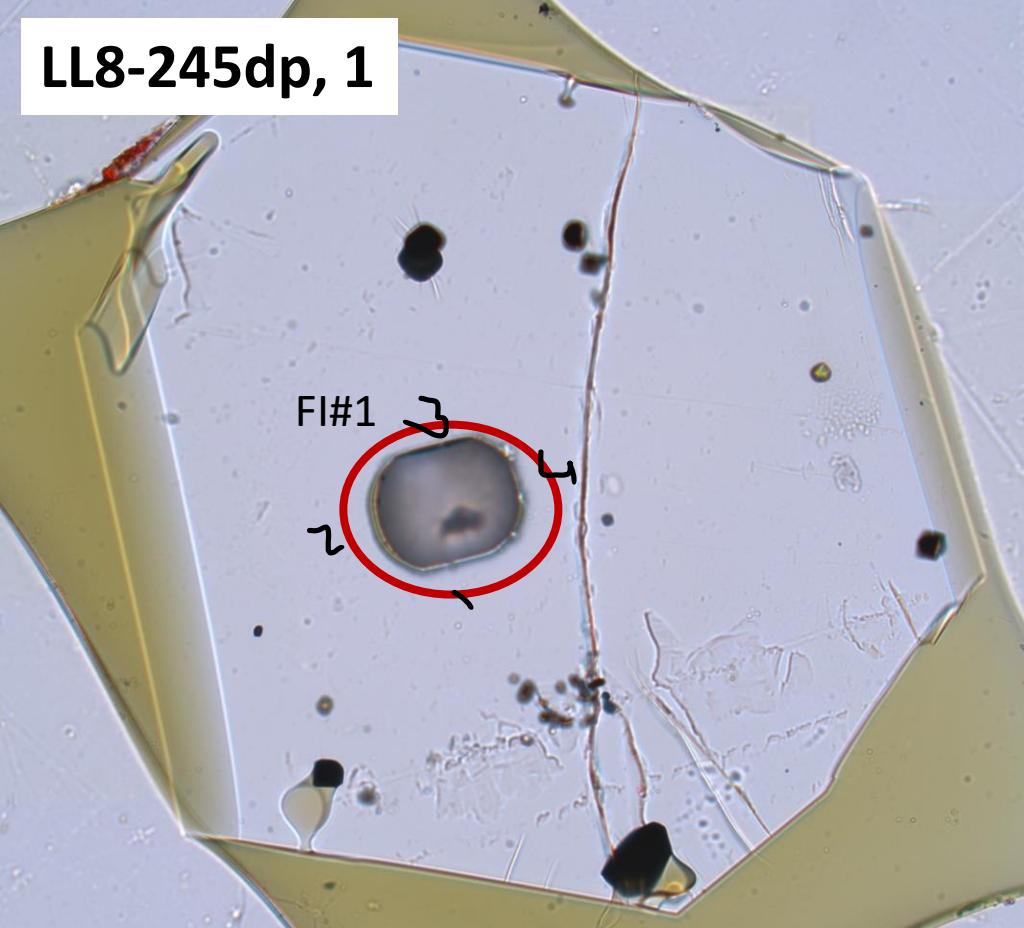


LL8-FI37, 1



Plenty more as well. FI#4 never analyzed. This area seems like an early GZ maybe

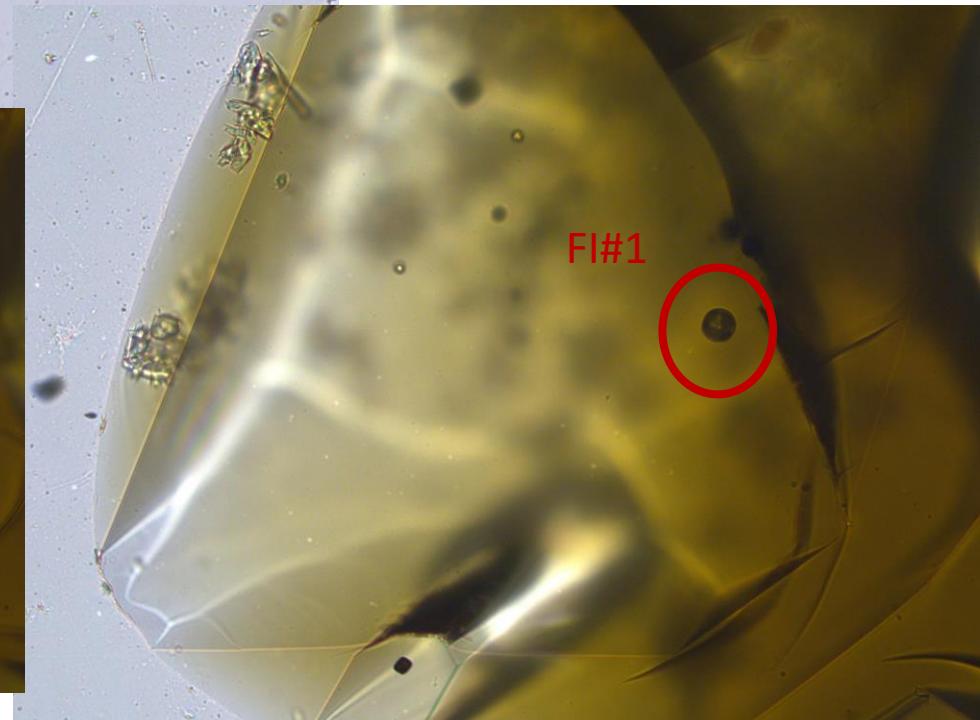
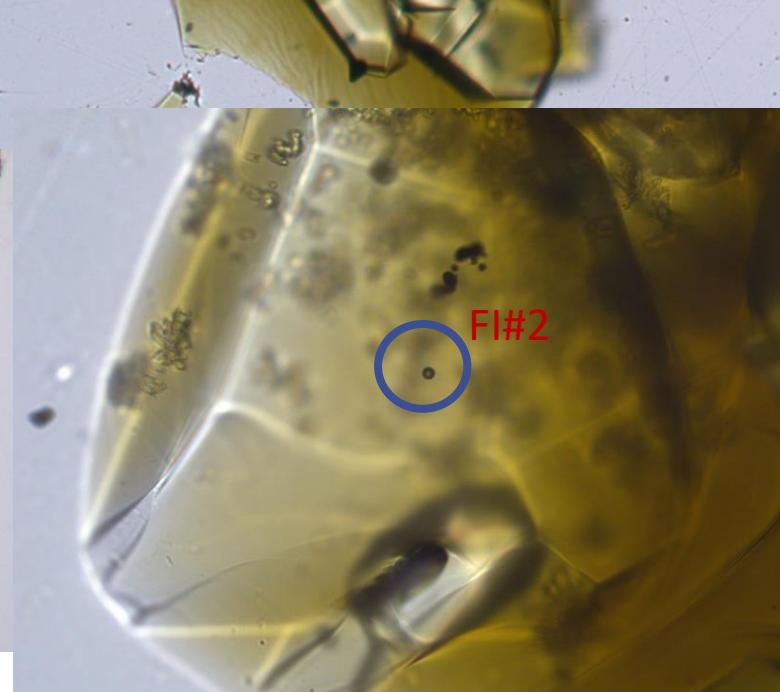
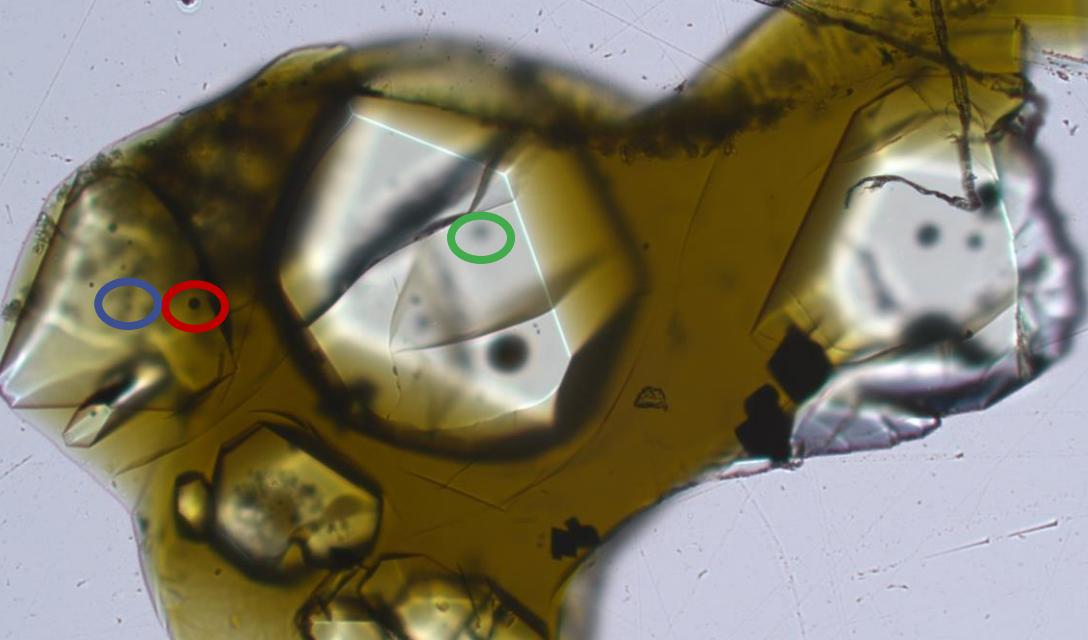
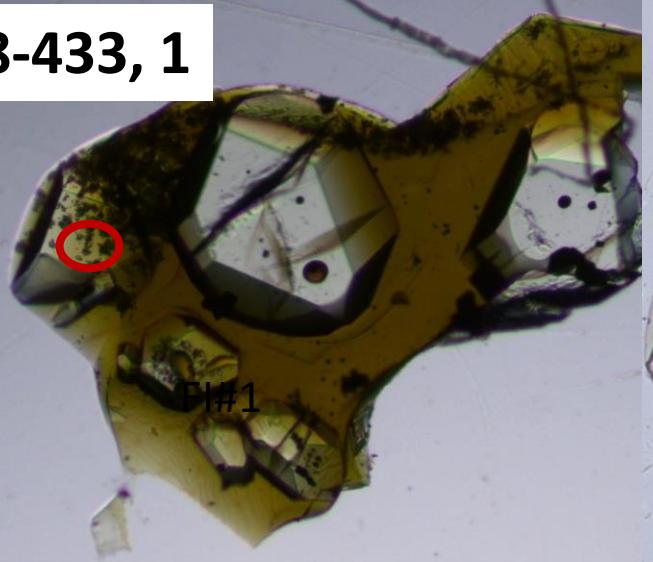
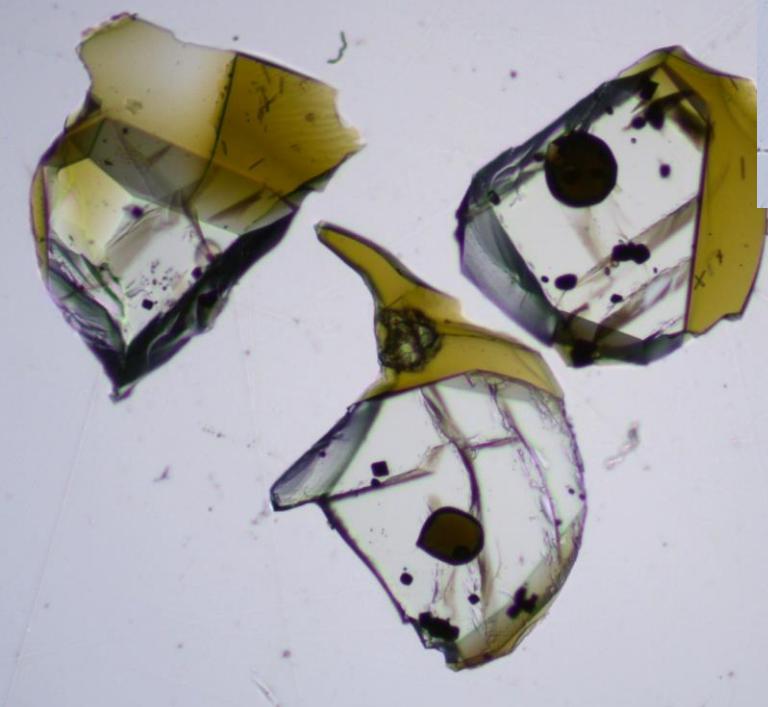
LL8-245dp, 1



This one was empty anyways

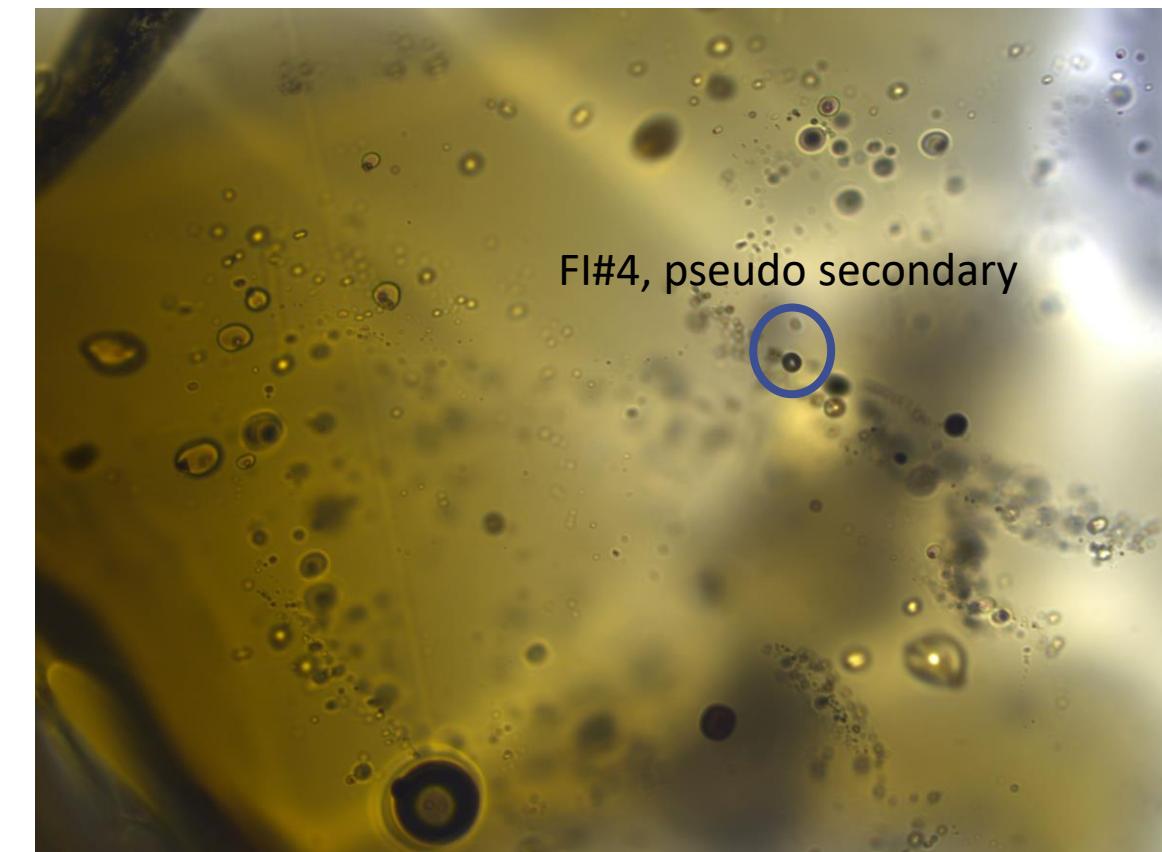
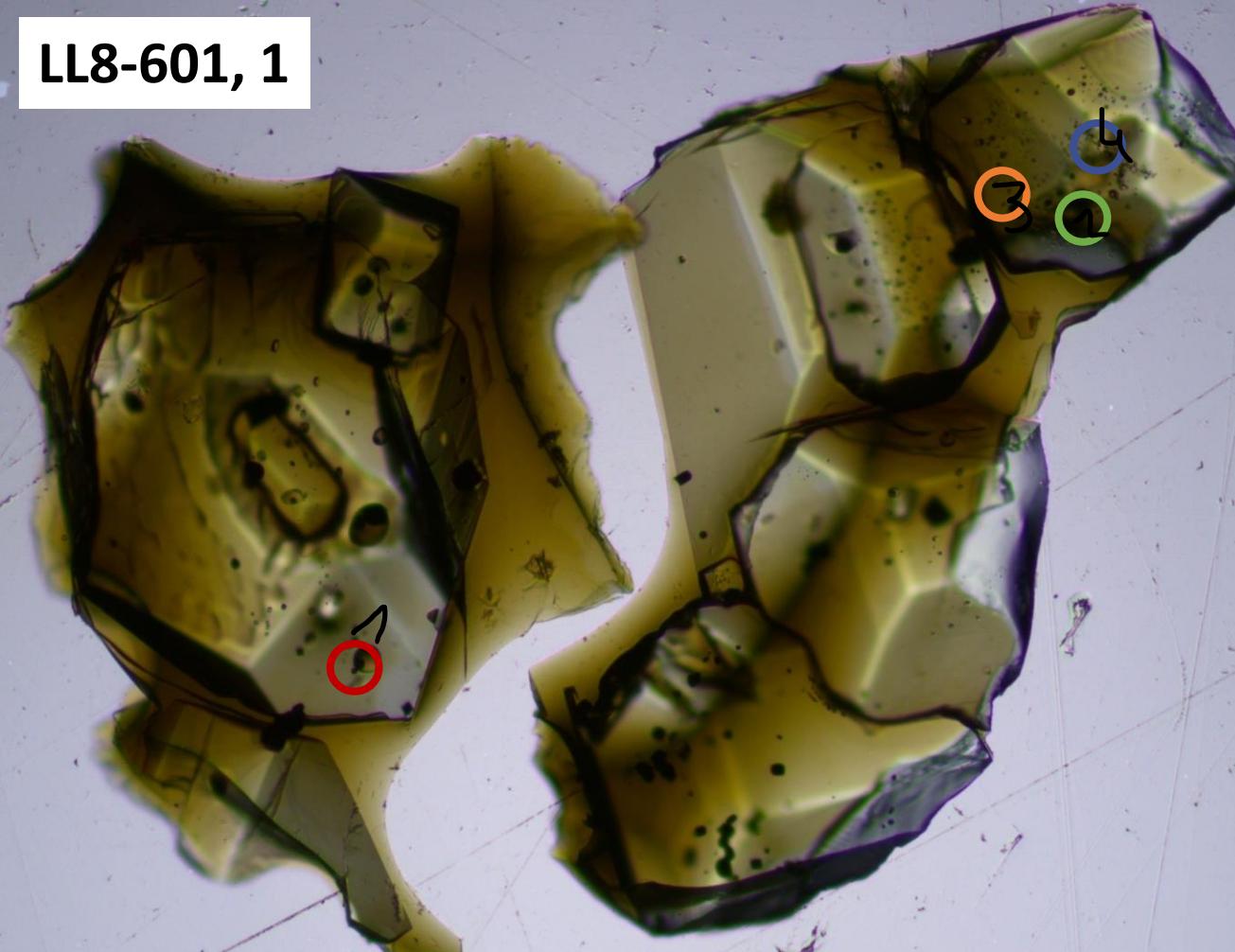
LL8-FI36 was mislabeled in the raman as LL8-3b but is also gone from the epoxy mount. Polished out completely probably

LL8-433, 1

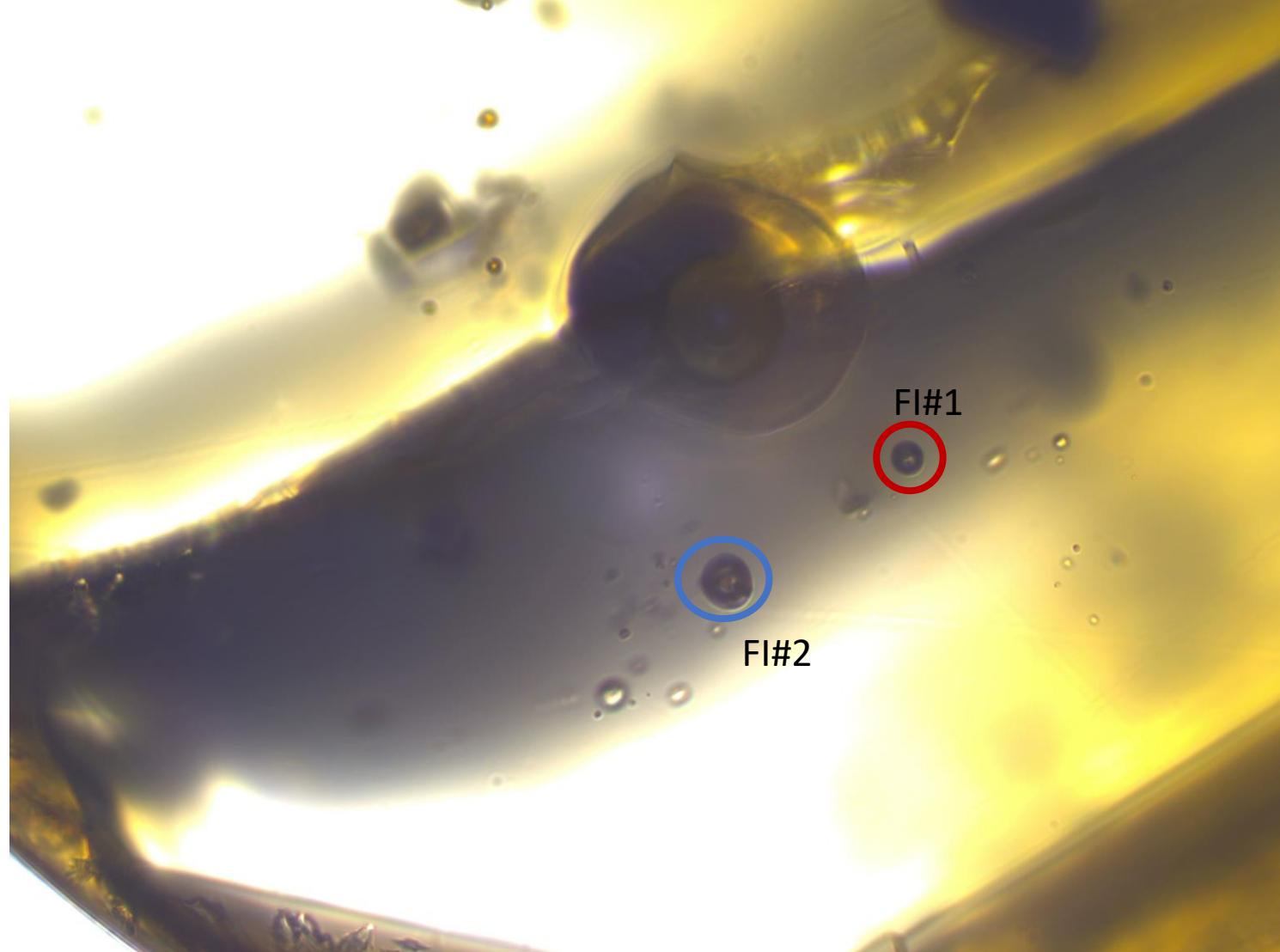
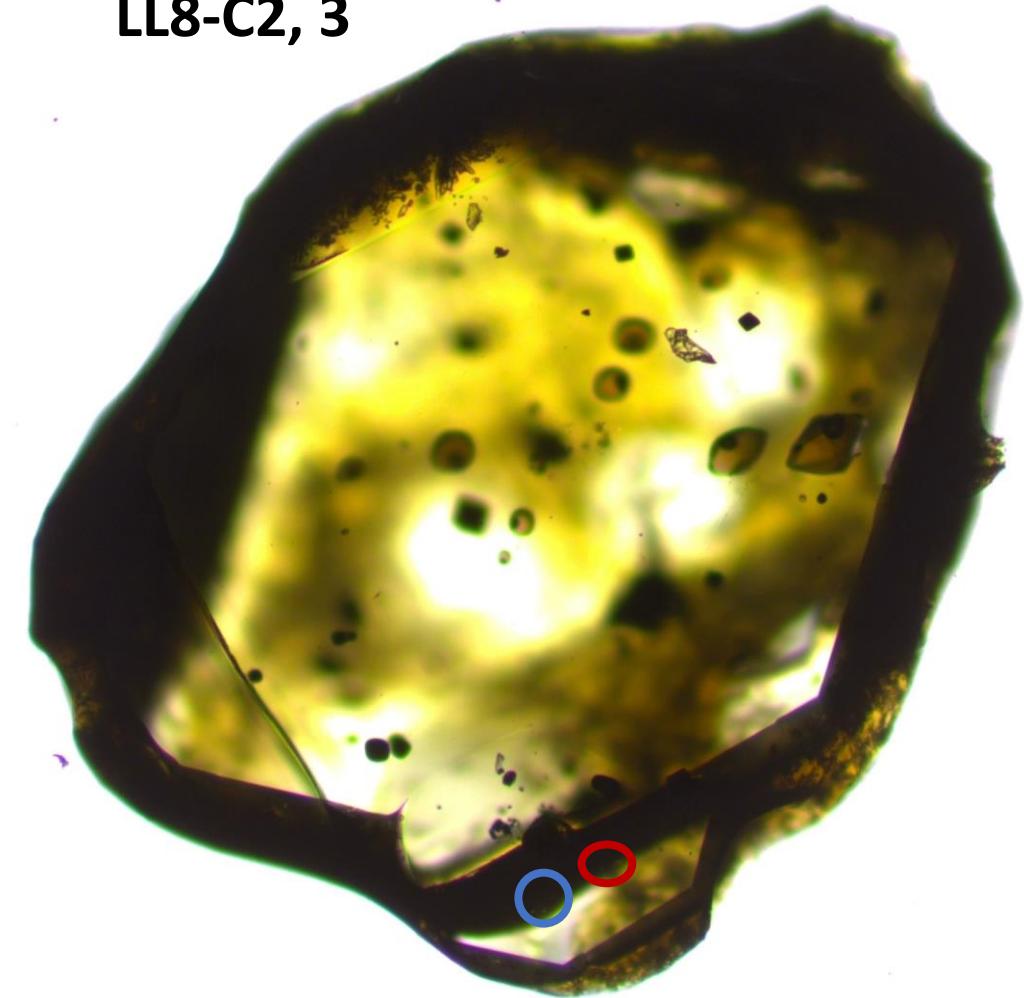


Really tough, broken, polished moved. PROBABLY RERAMAN

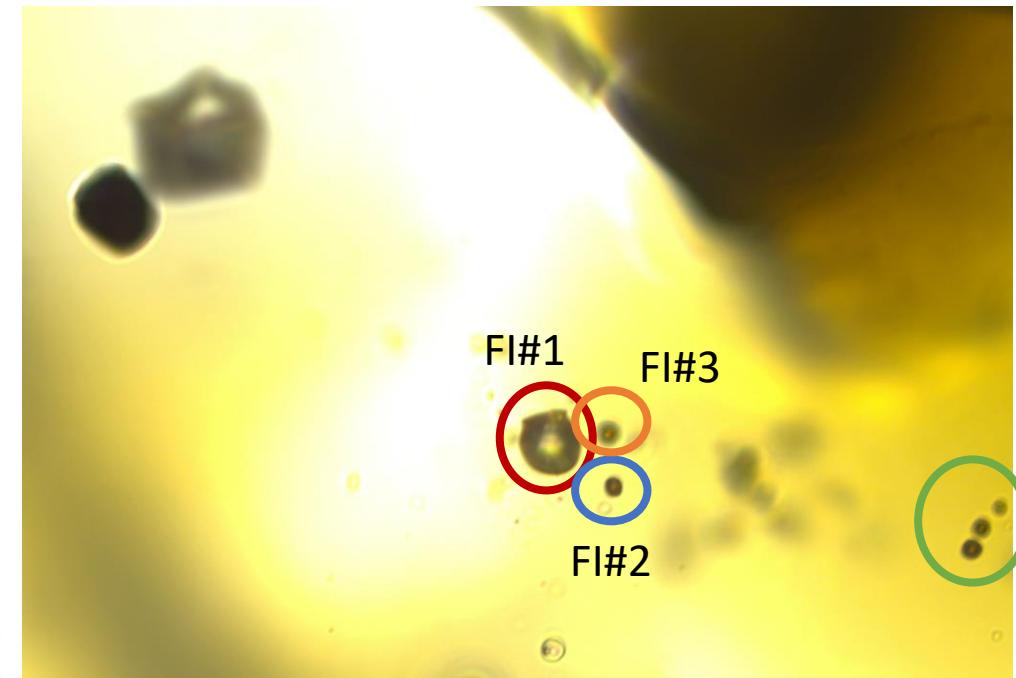
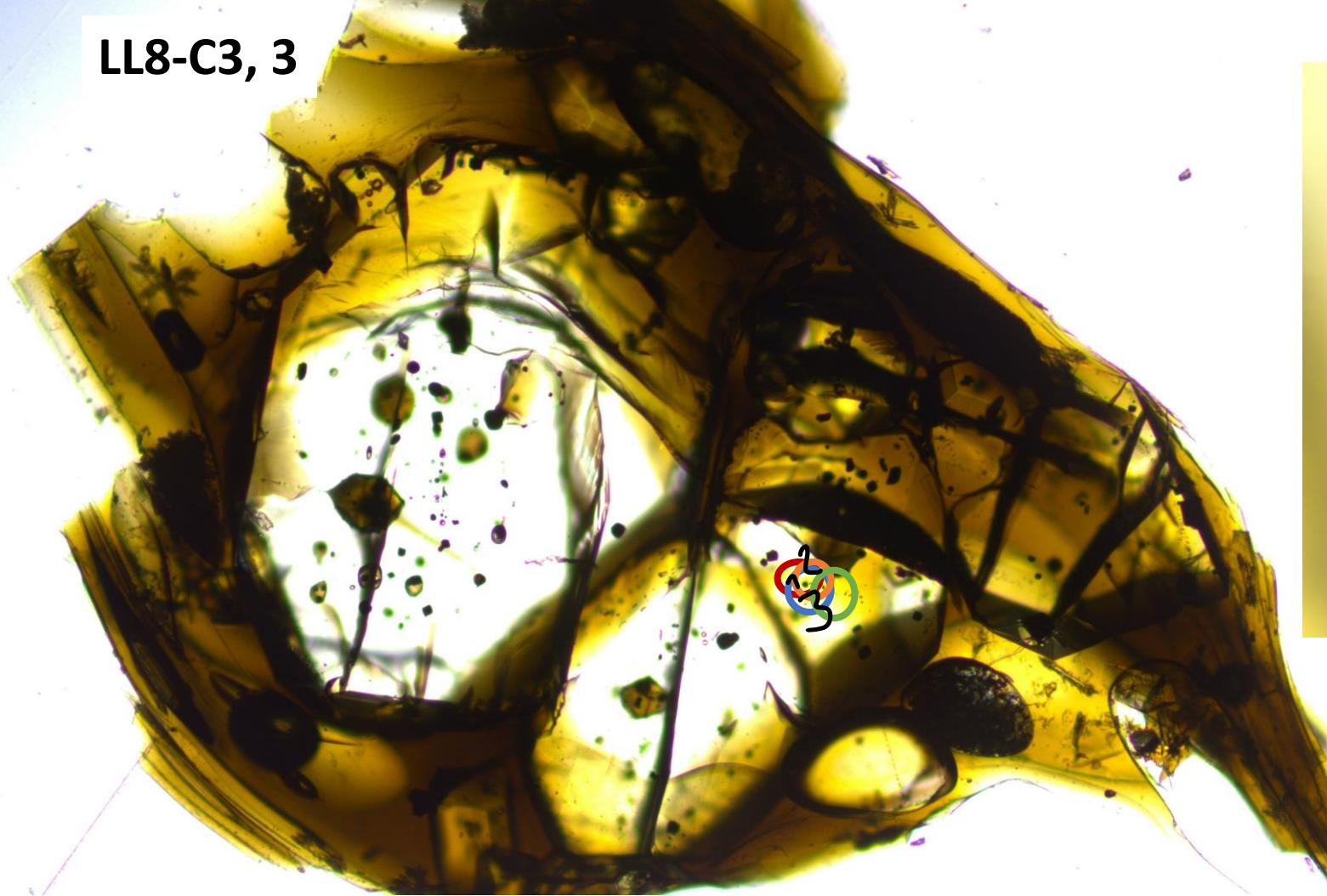
LL8-601, 1



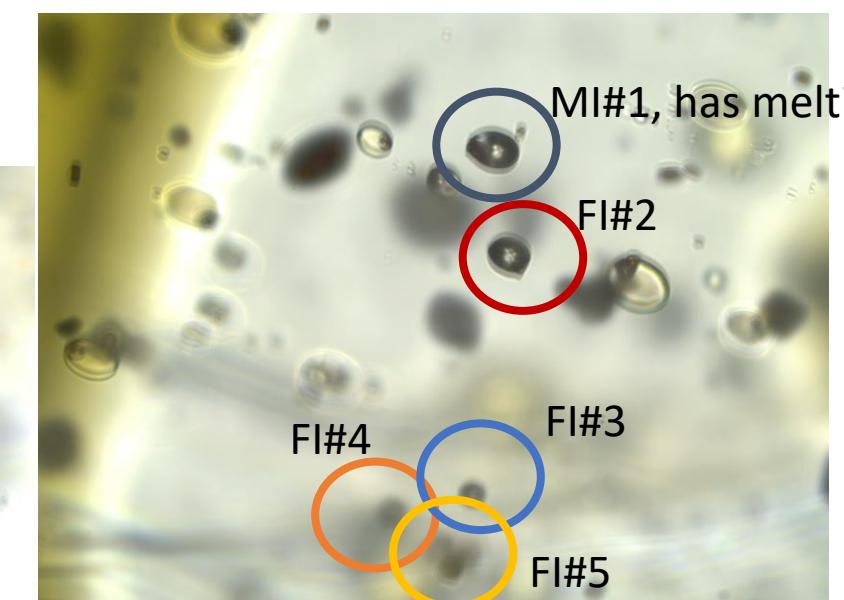
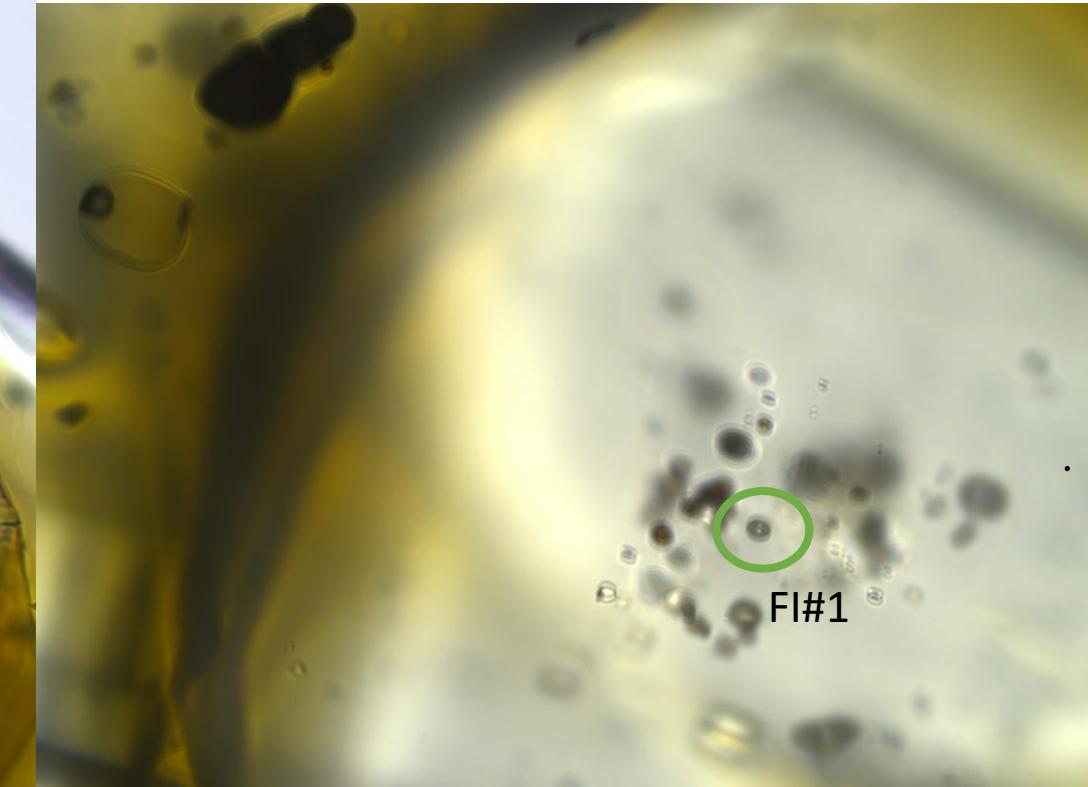
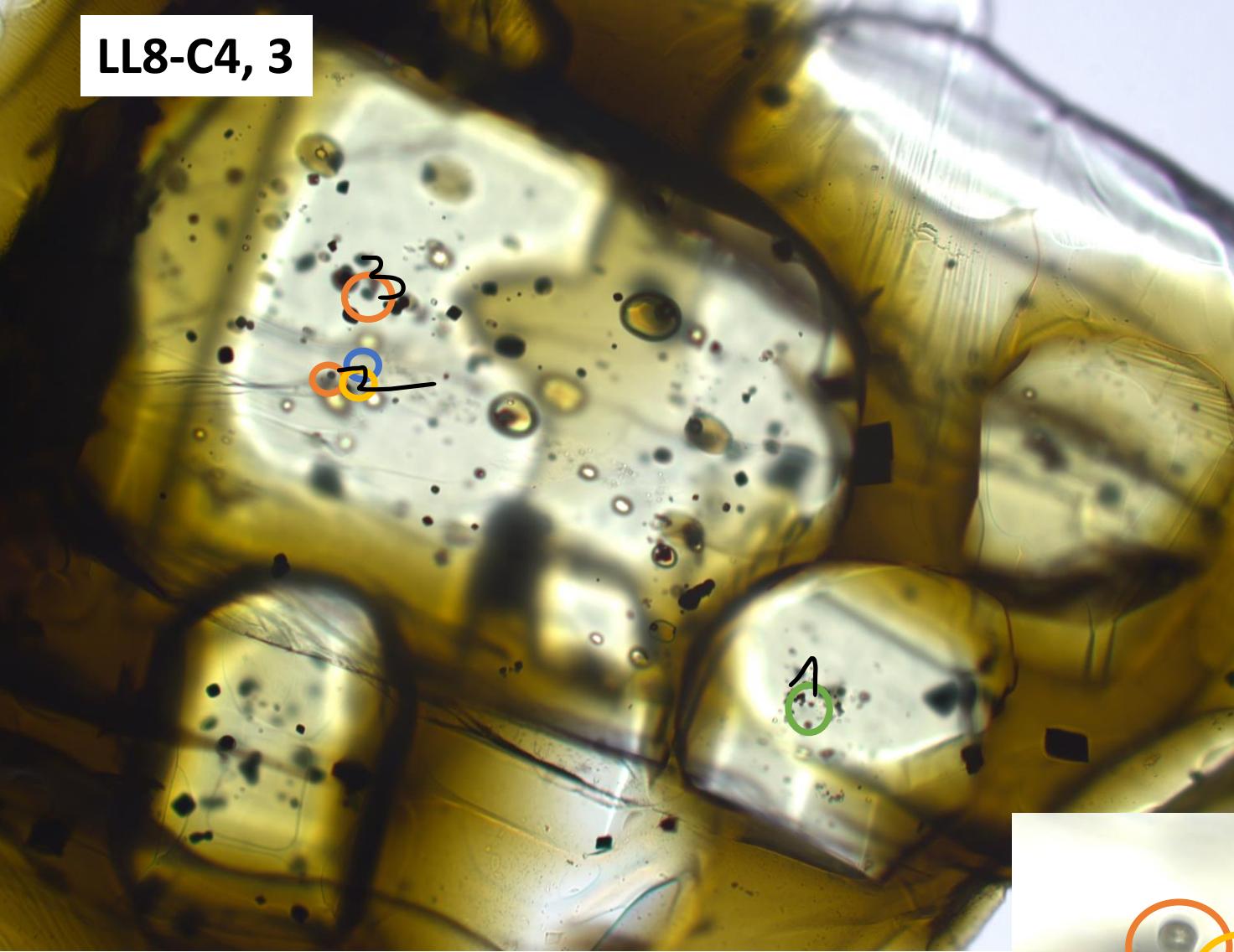
LL8-C2, 3



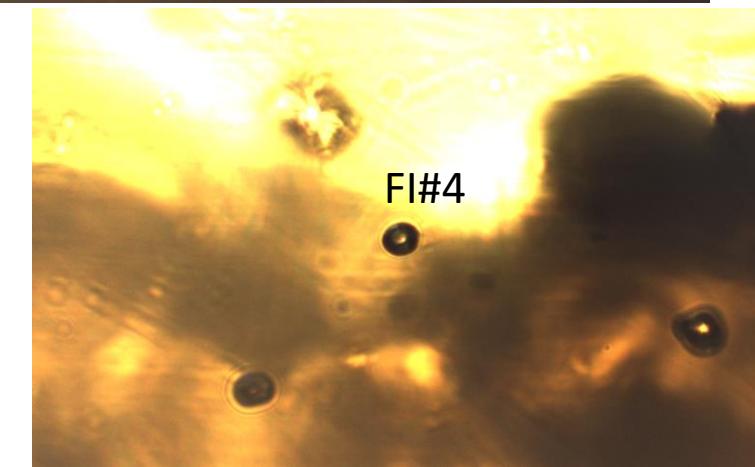
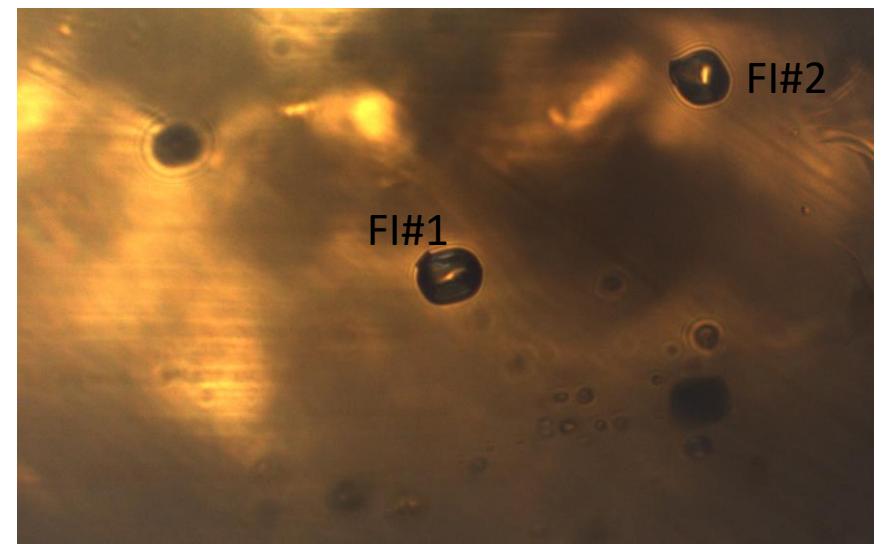
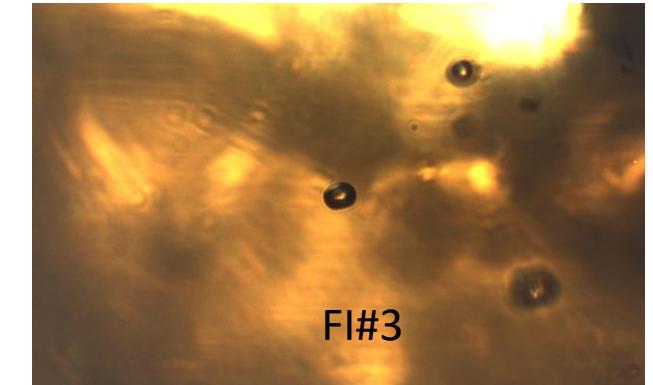
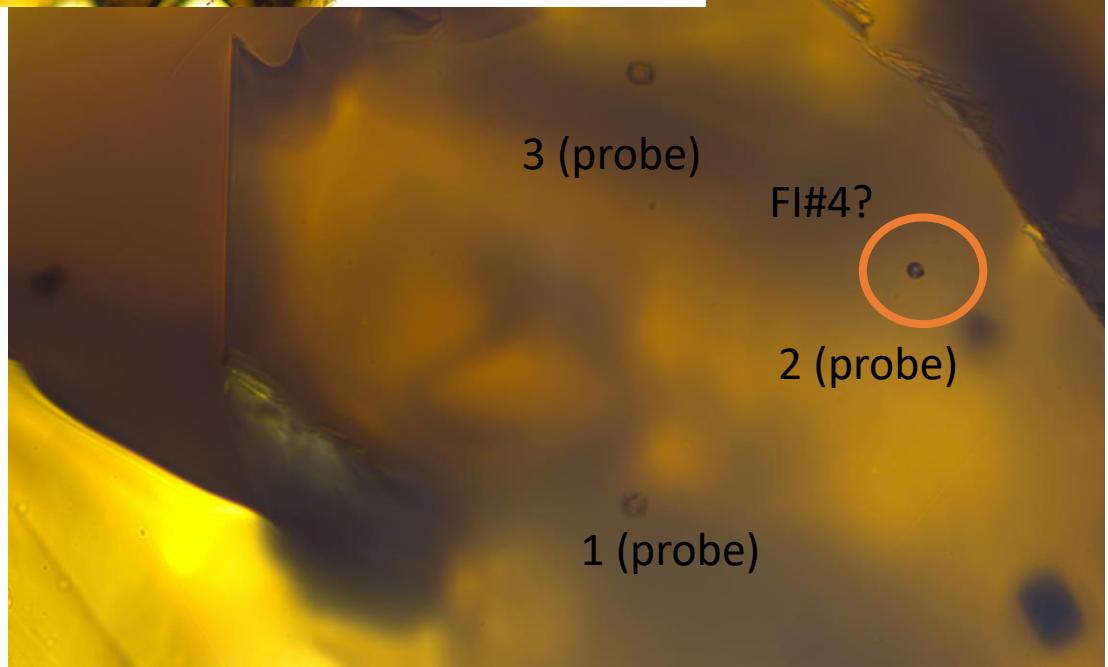
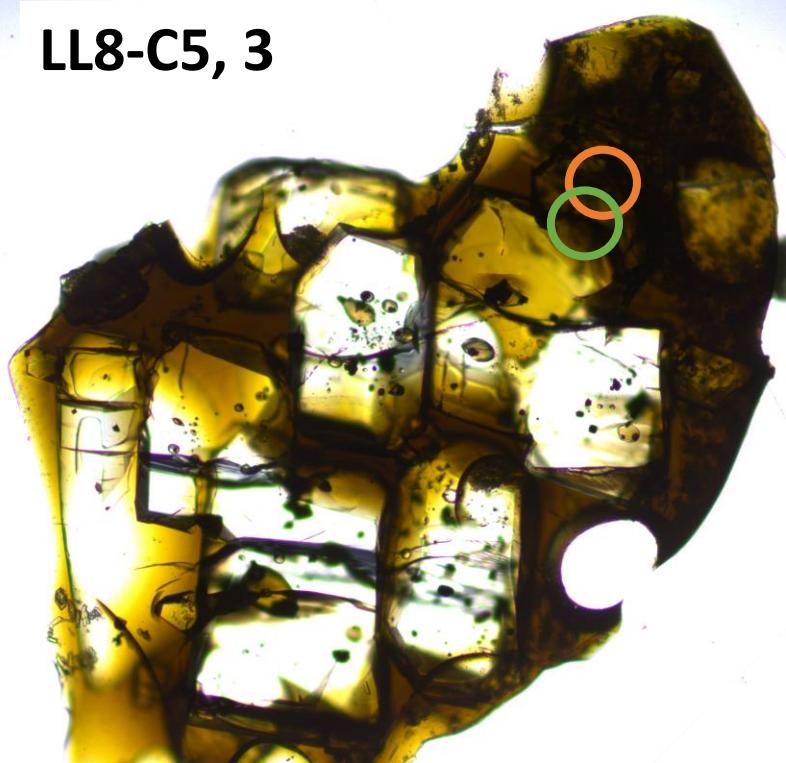
LL8-C3, 3



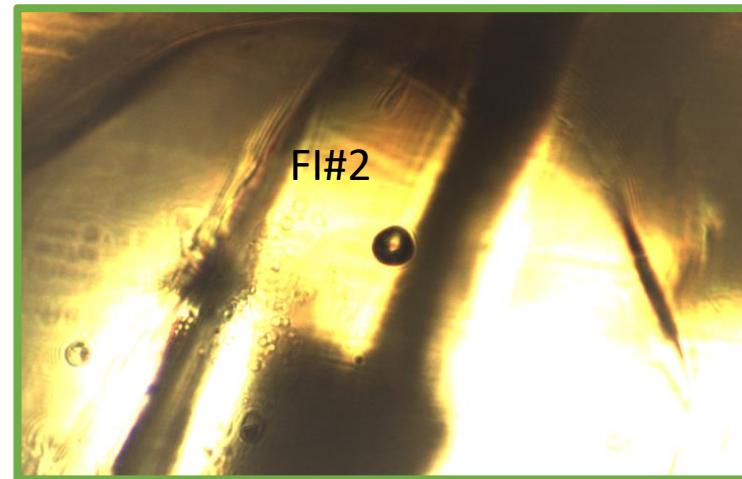
LL8-C4, 3



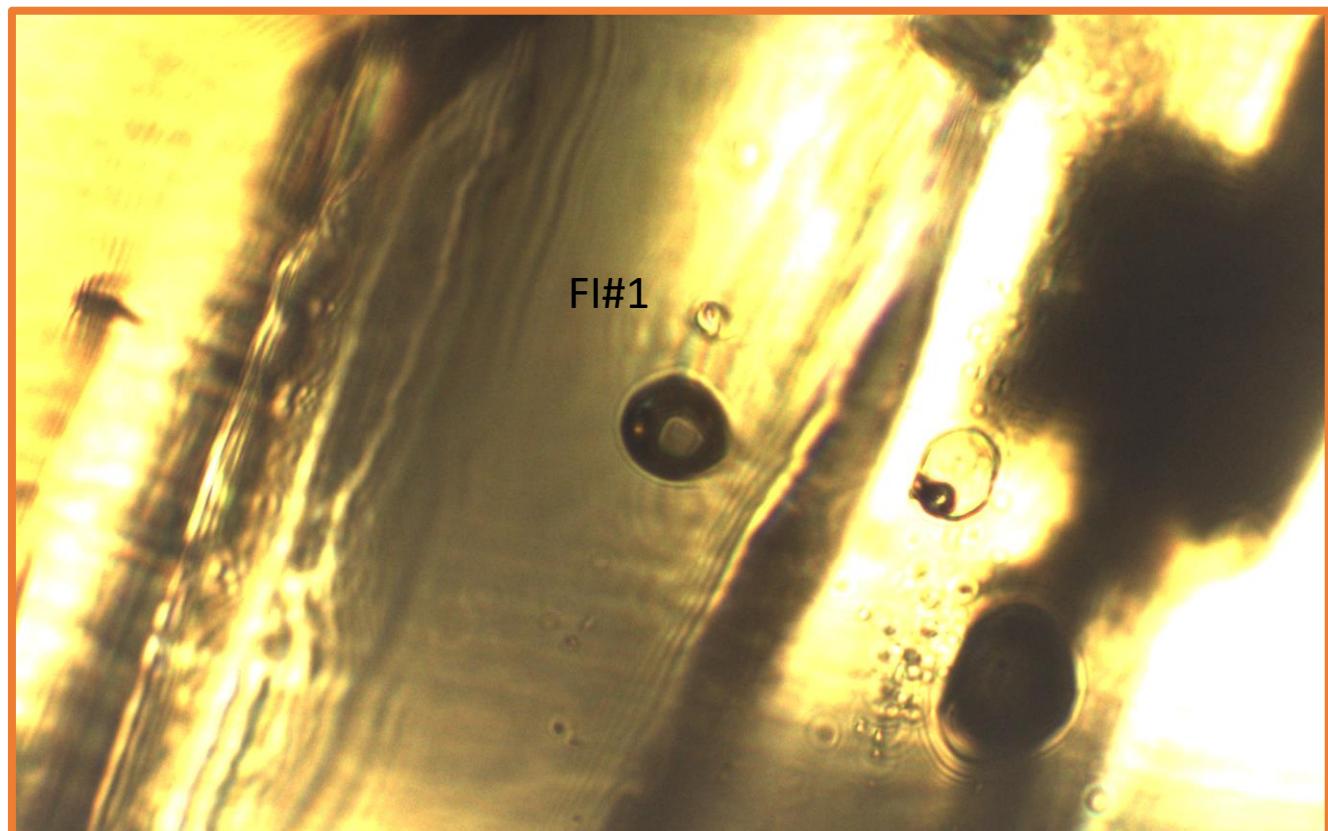
LL8-C5, 3



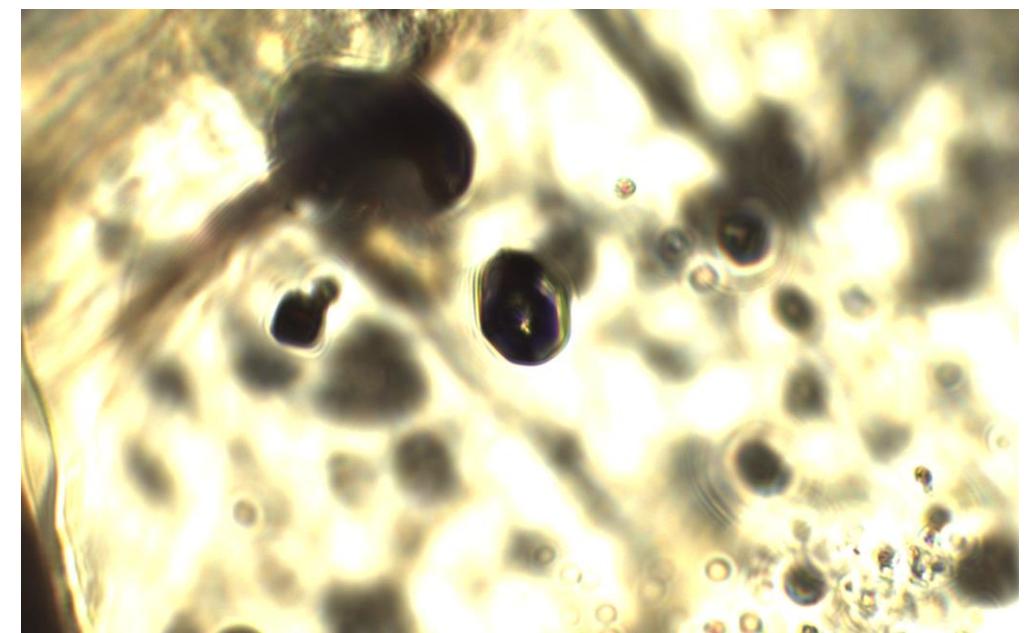
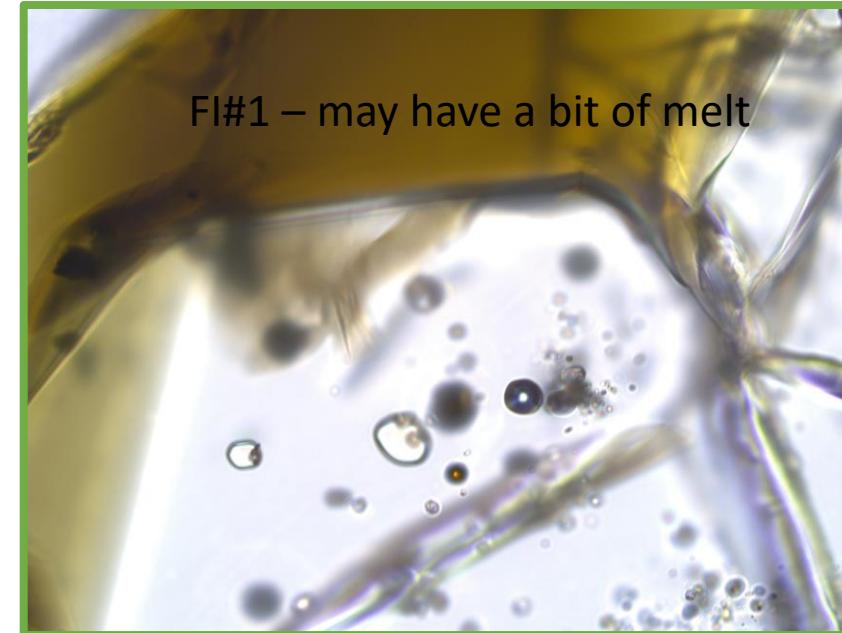
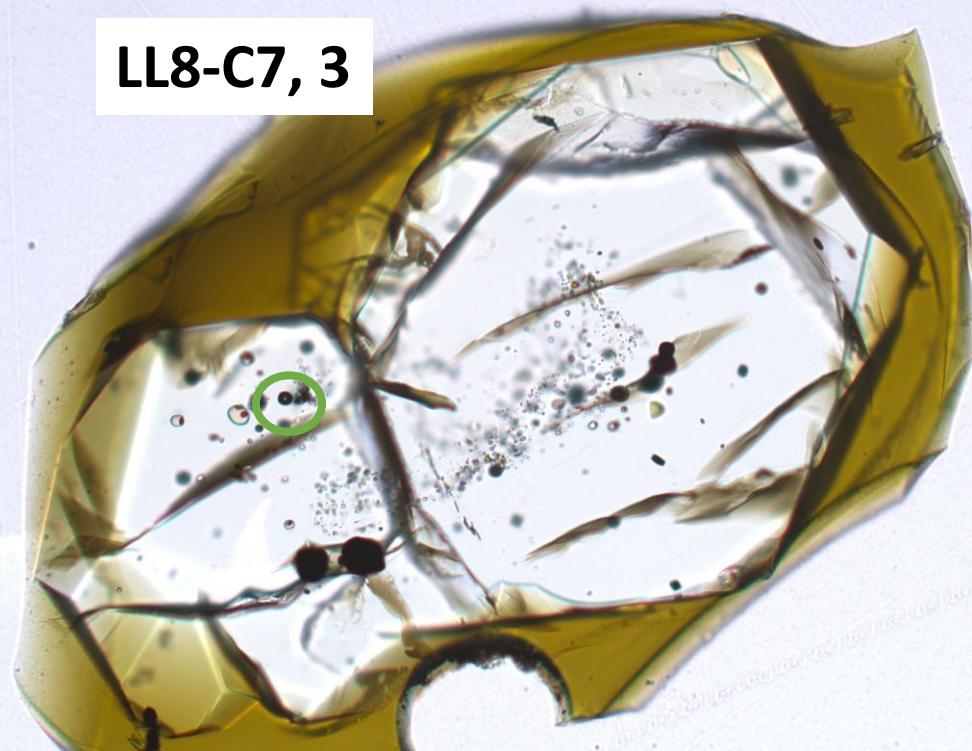
LL8-C6, 3



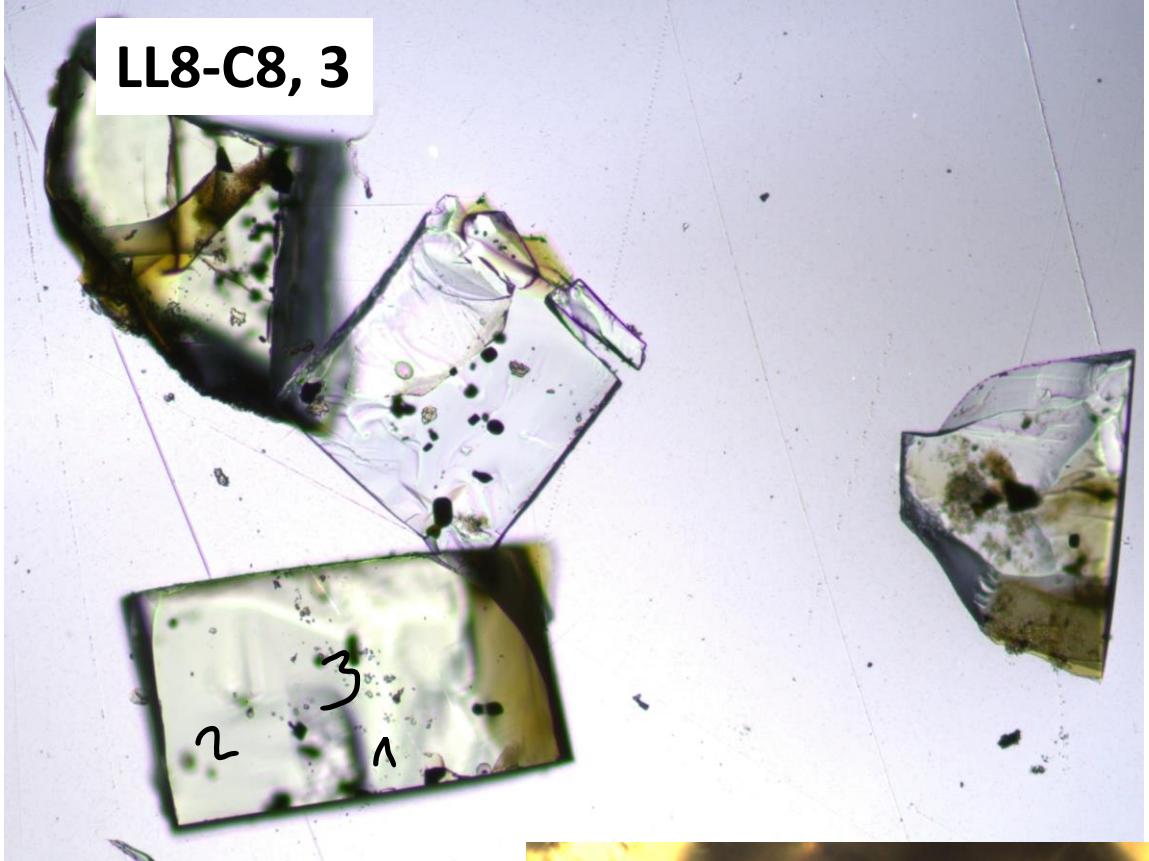
Small xtal in between



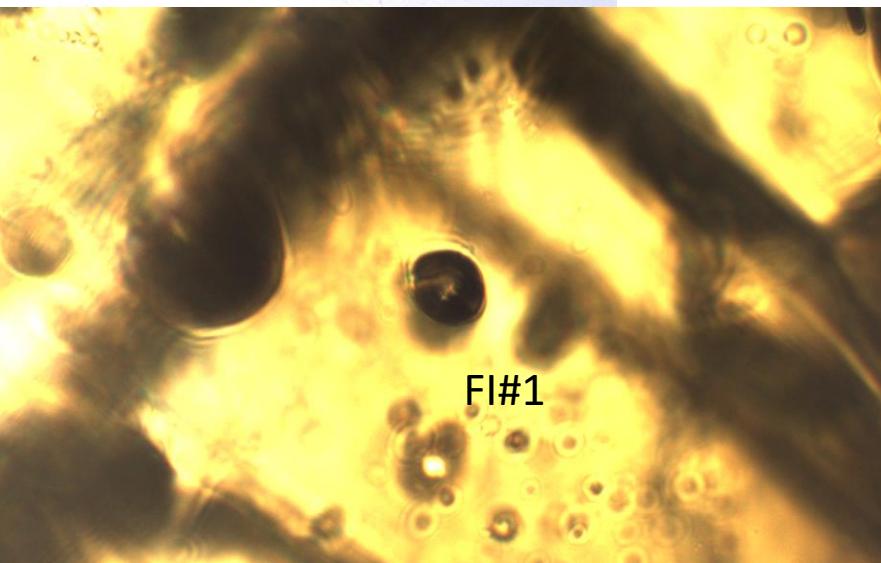
LL8-C7, 3



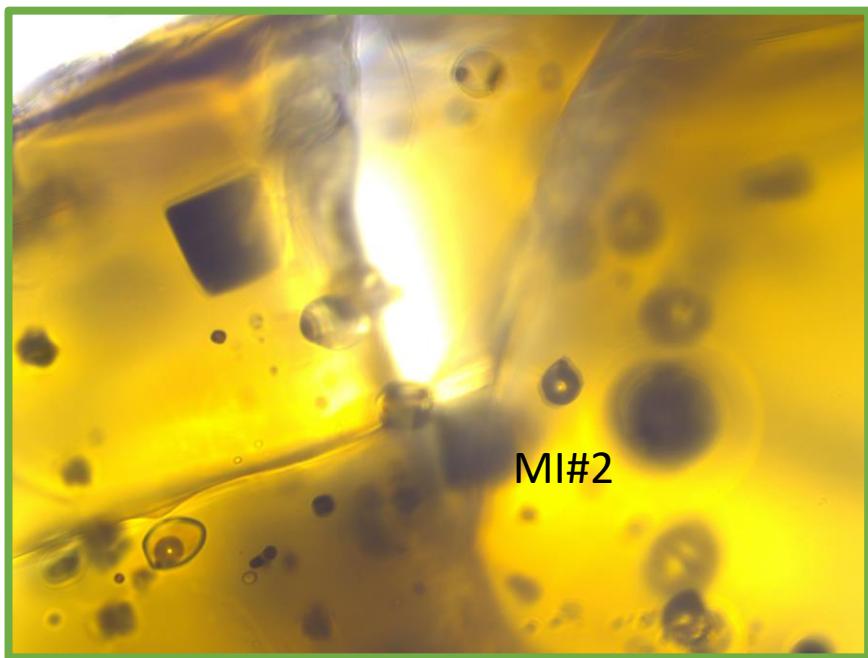
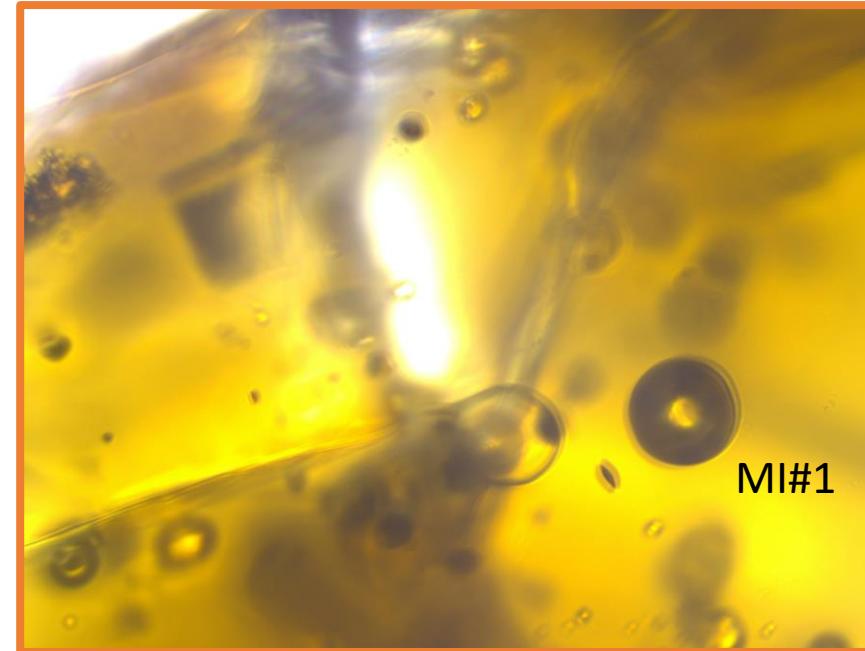
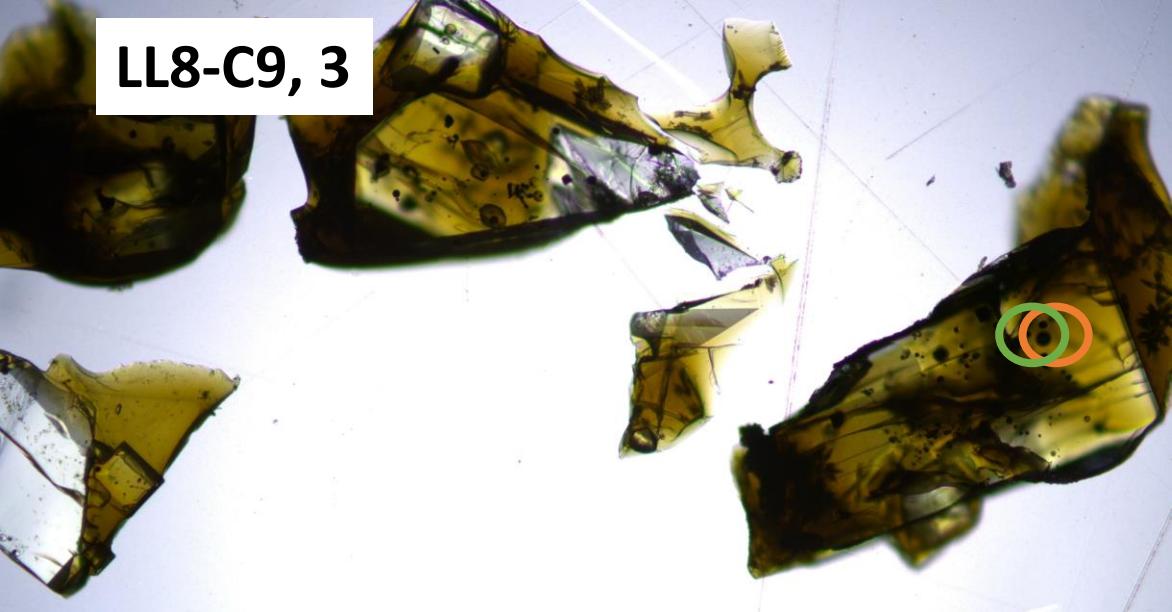
LL8-C8, 3



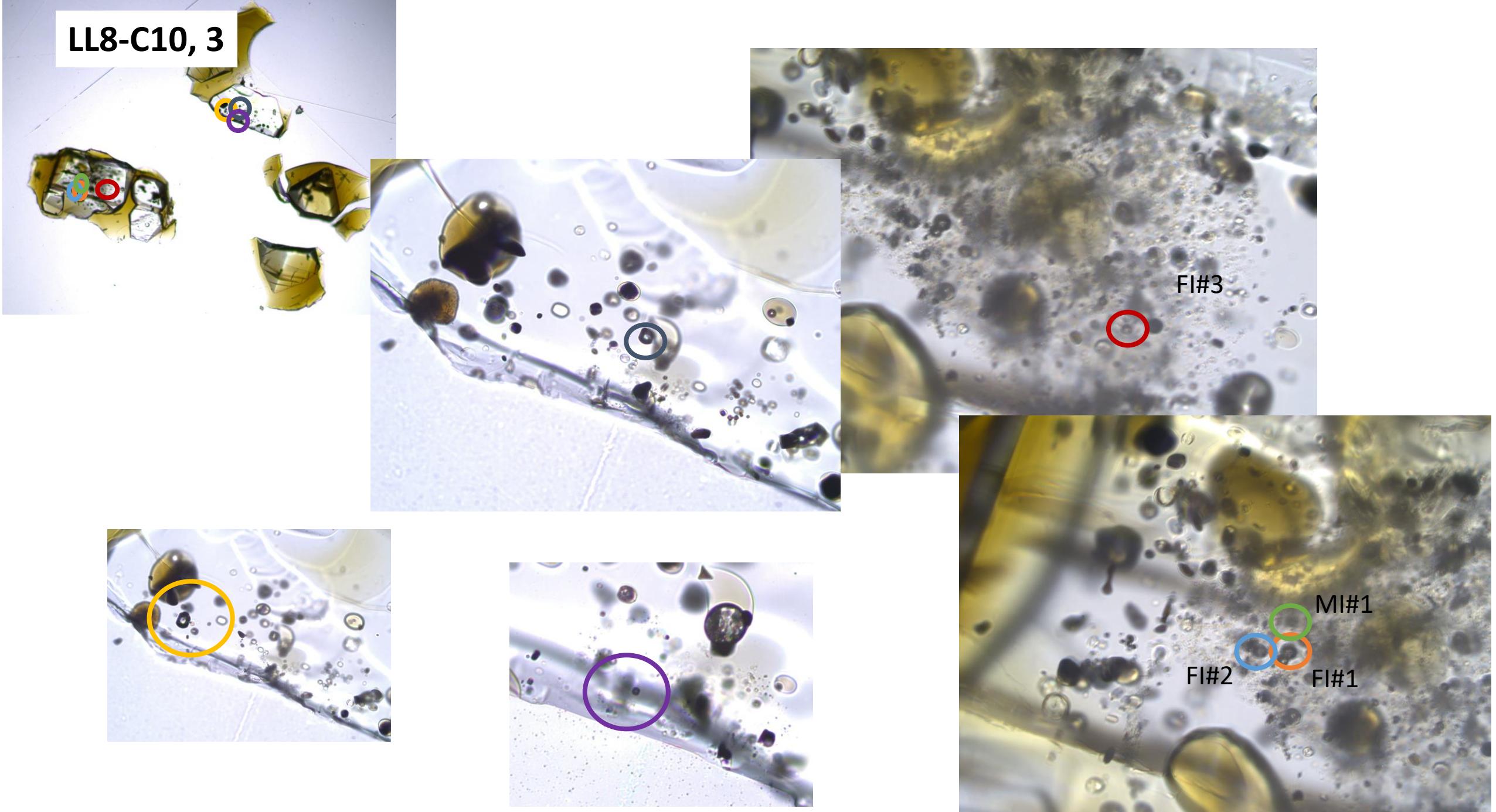
Got split into pieces and polished out



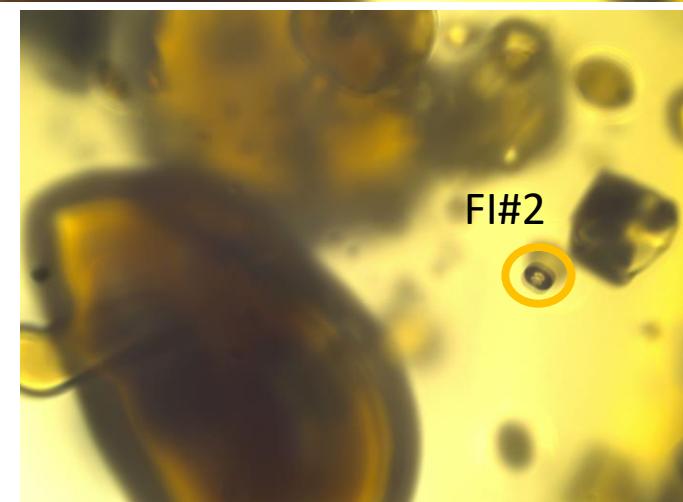
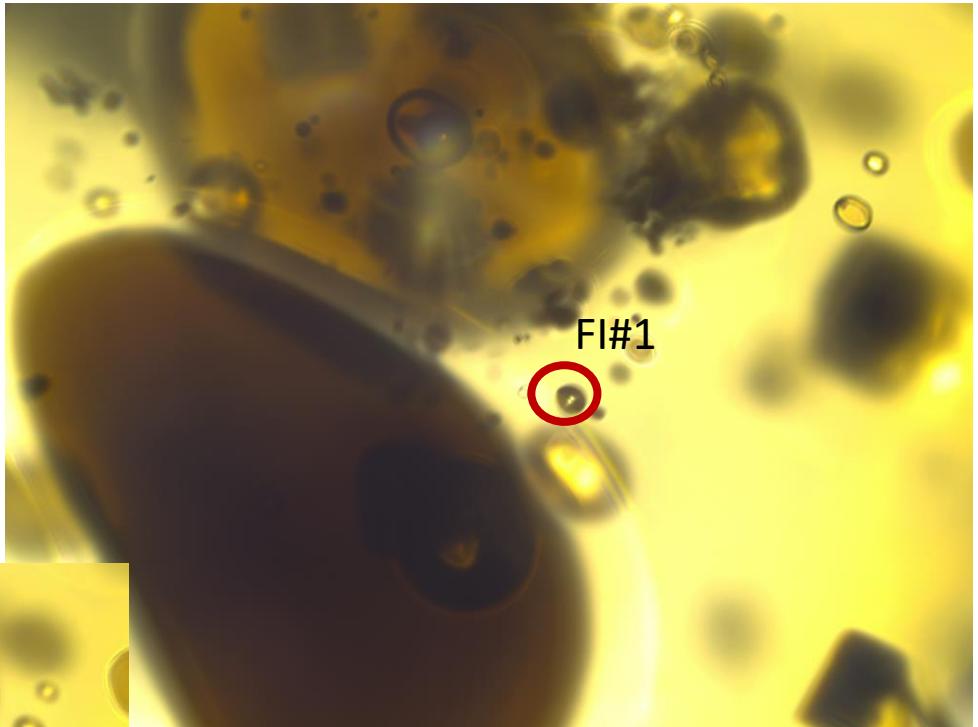
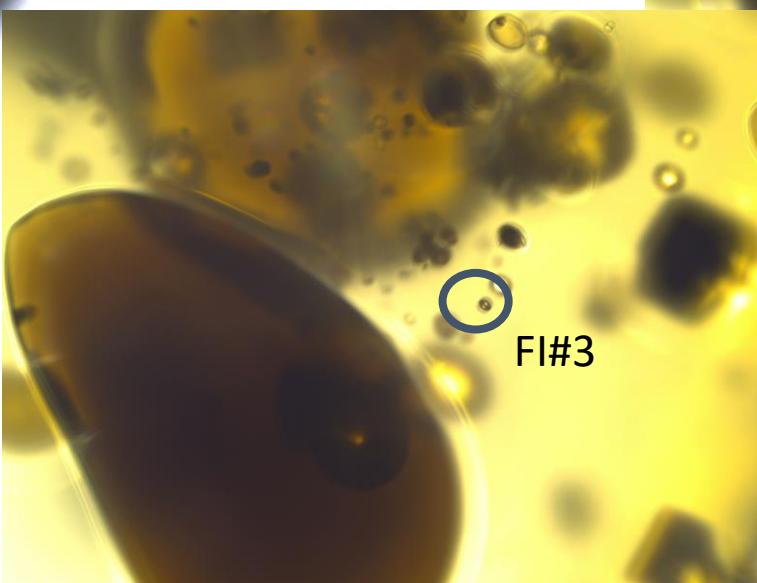
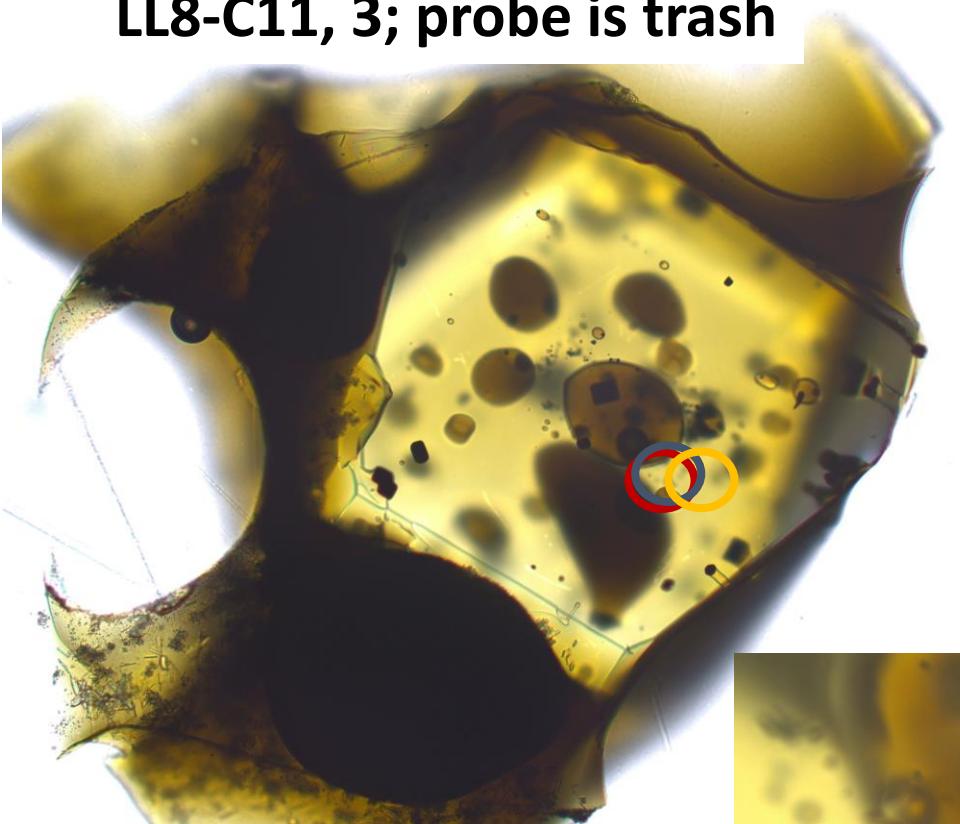
LL8-C9, 3



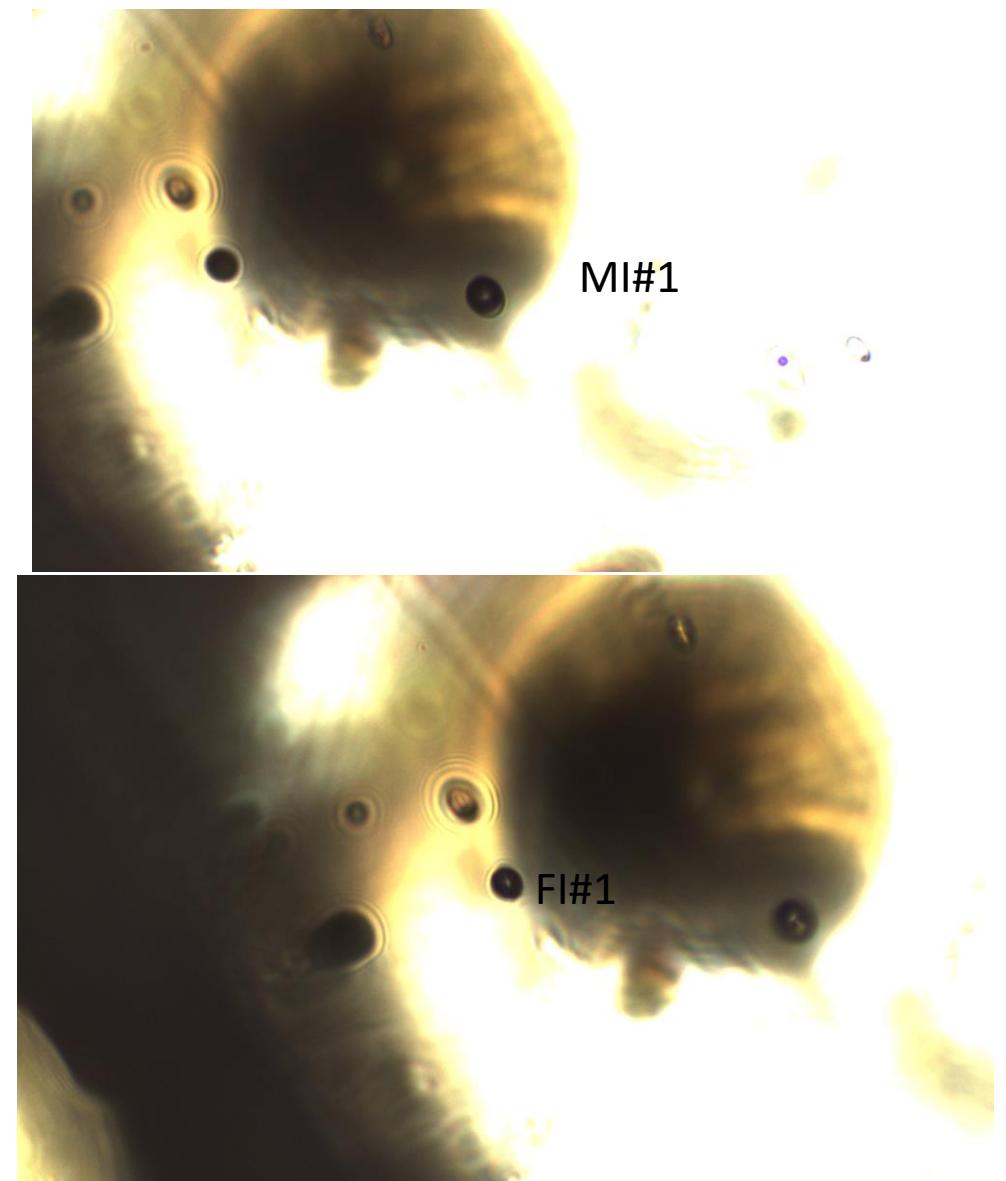
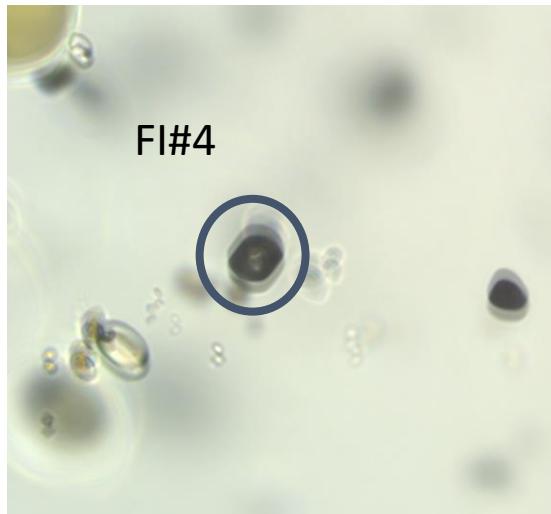
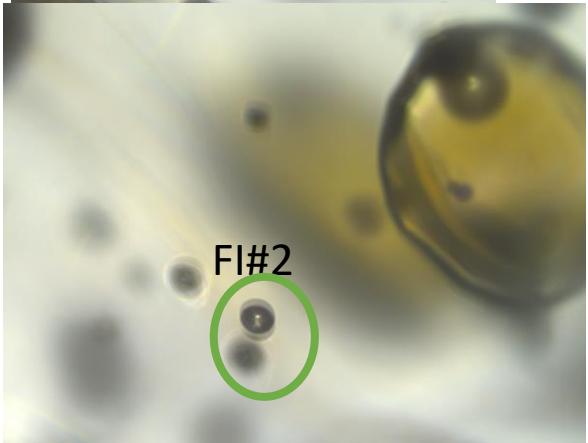
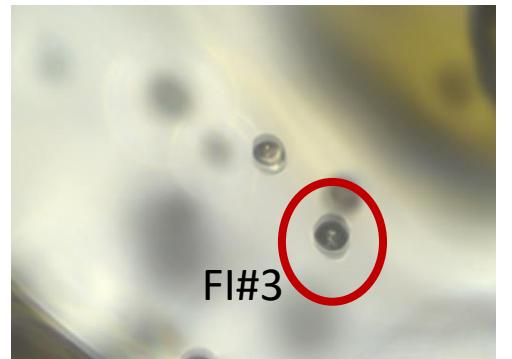
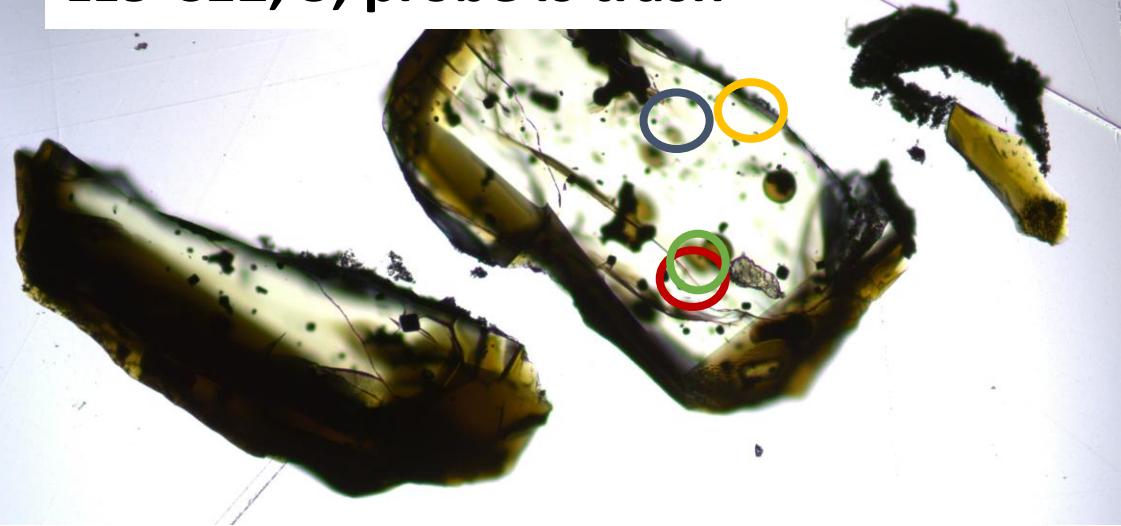
LL8-C10, 3



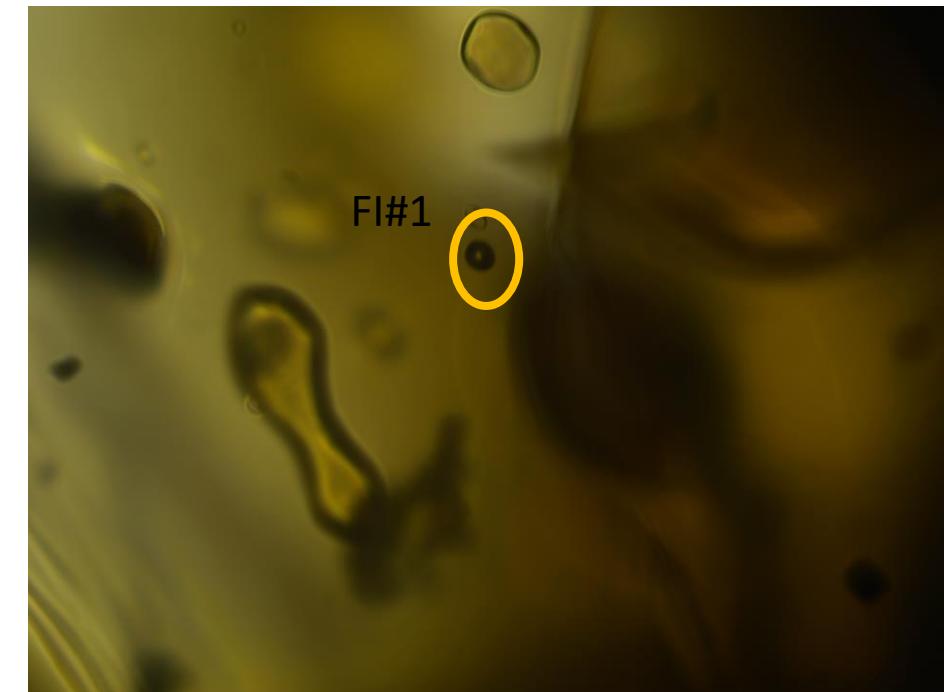
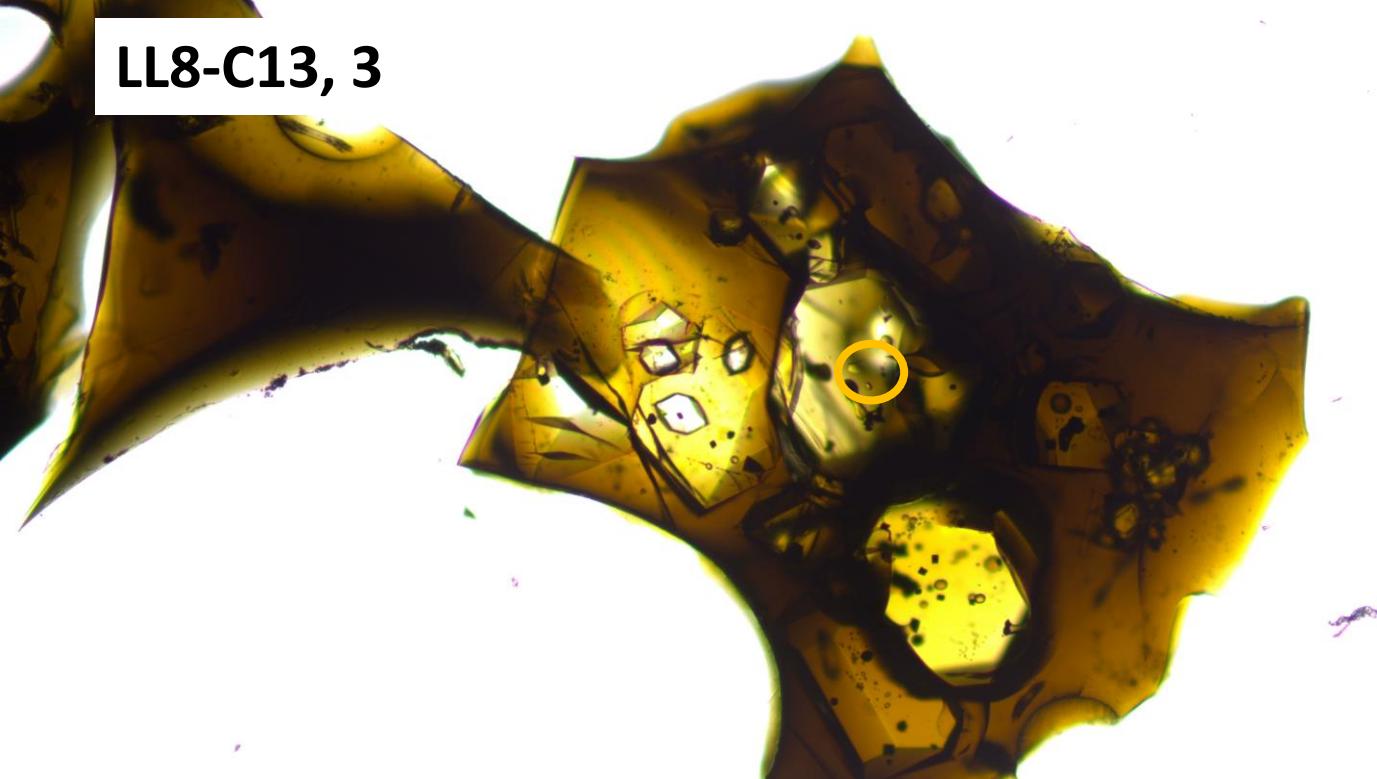
LL8-C11, 3; probe is trash



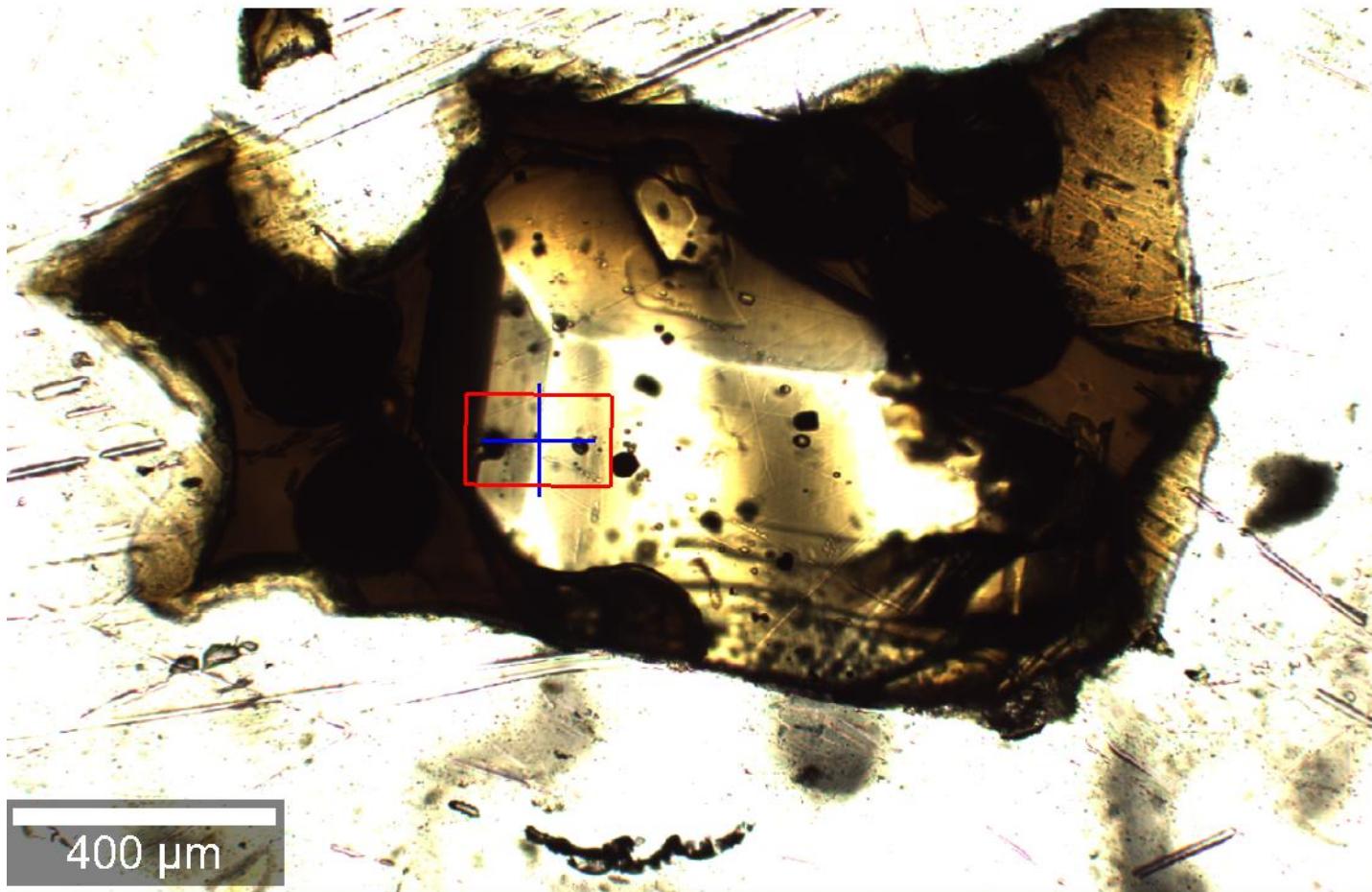
LL8-C12, 3, probe is trash



LL8-C13, 3



LL8-C18, 3



FI#1

