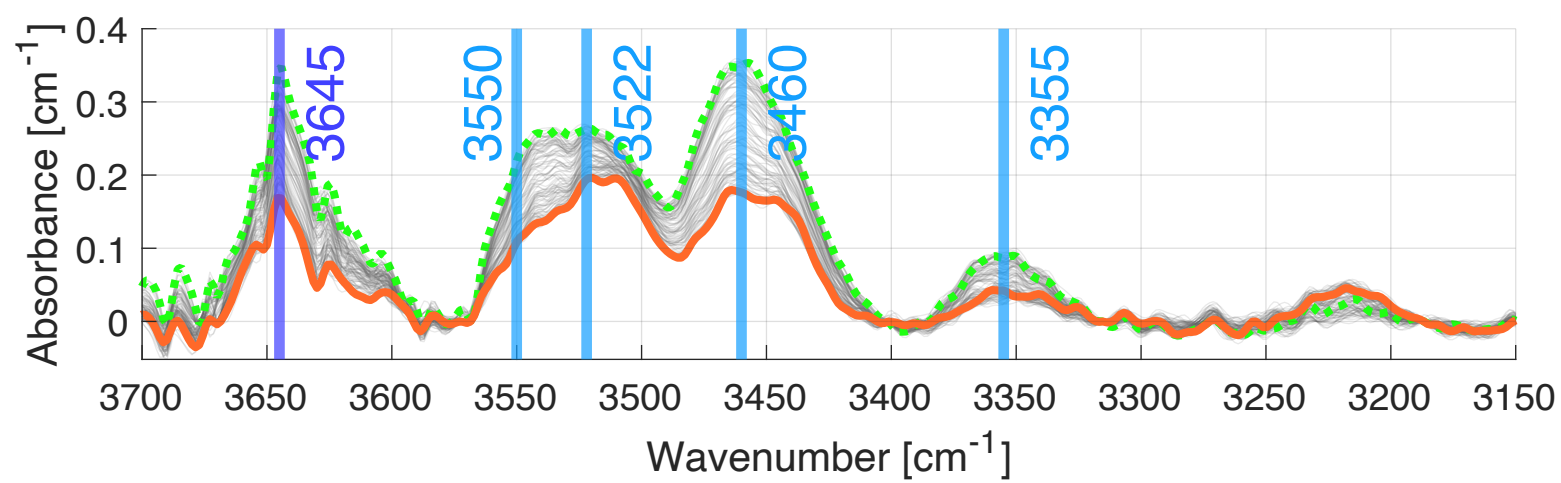
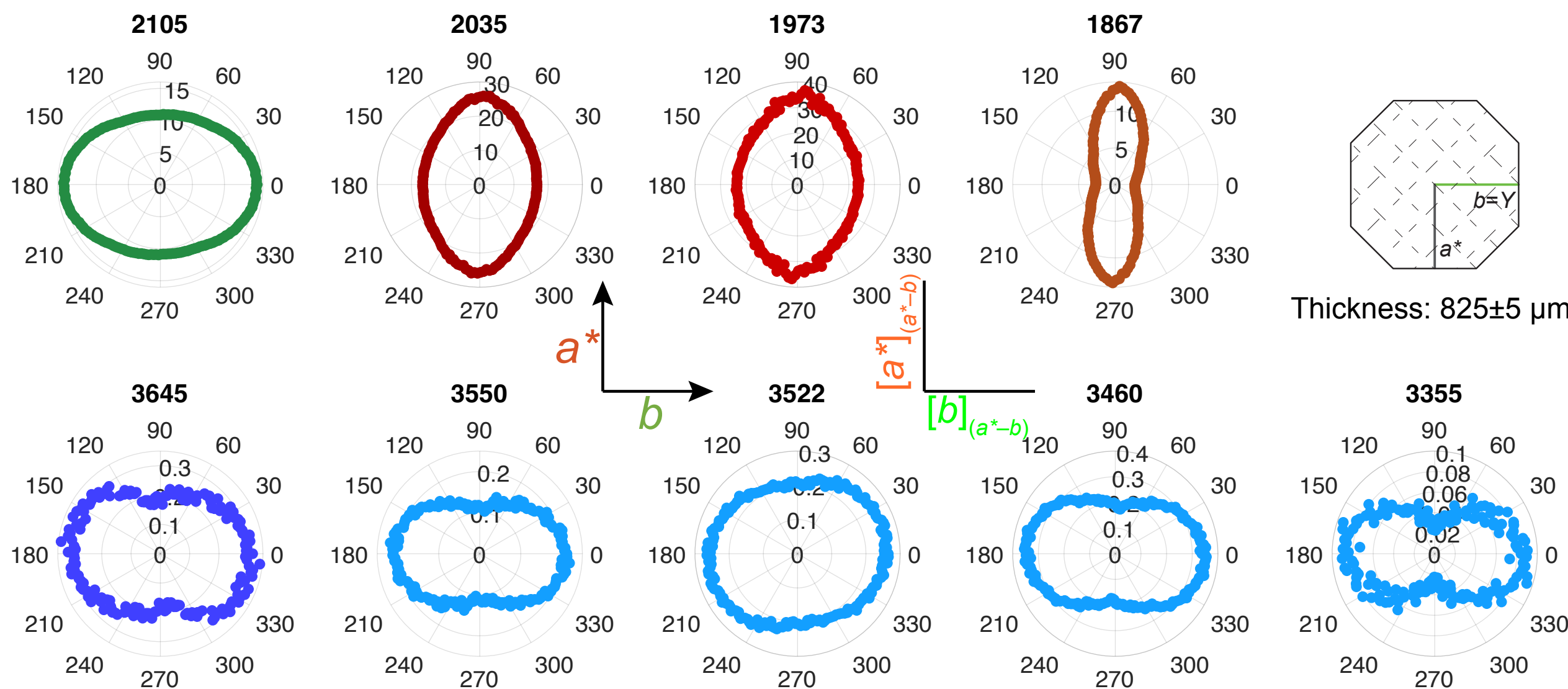
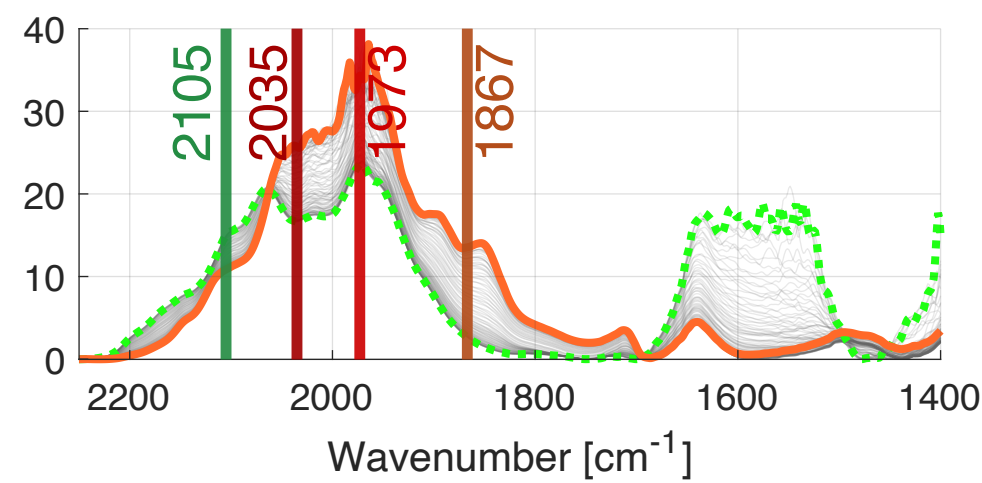


(a)

O–H Region

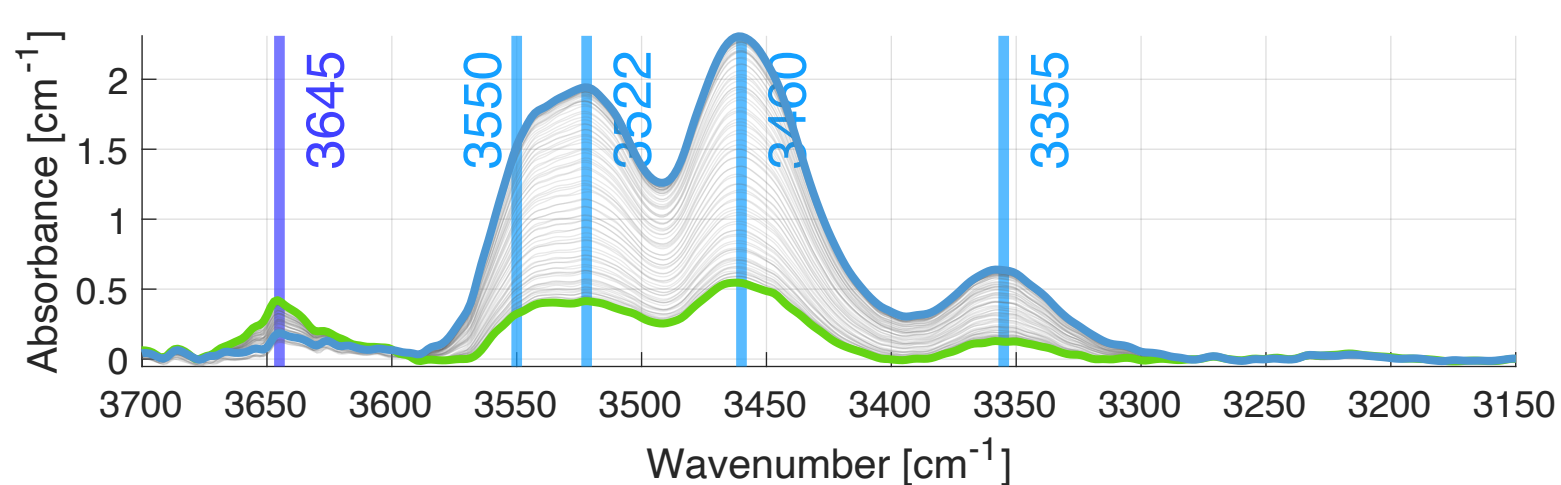


Si–O Overtone Region

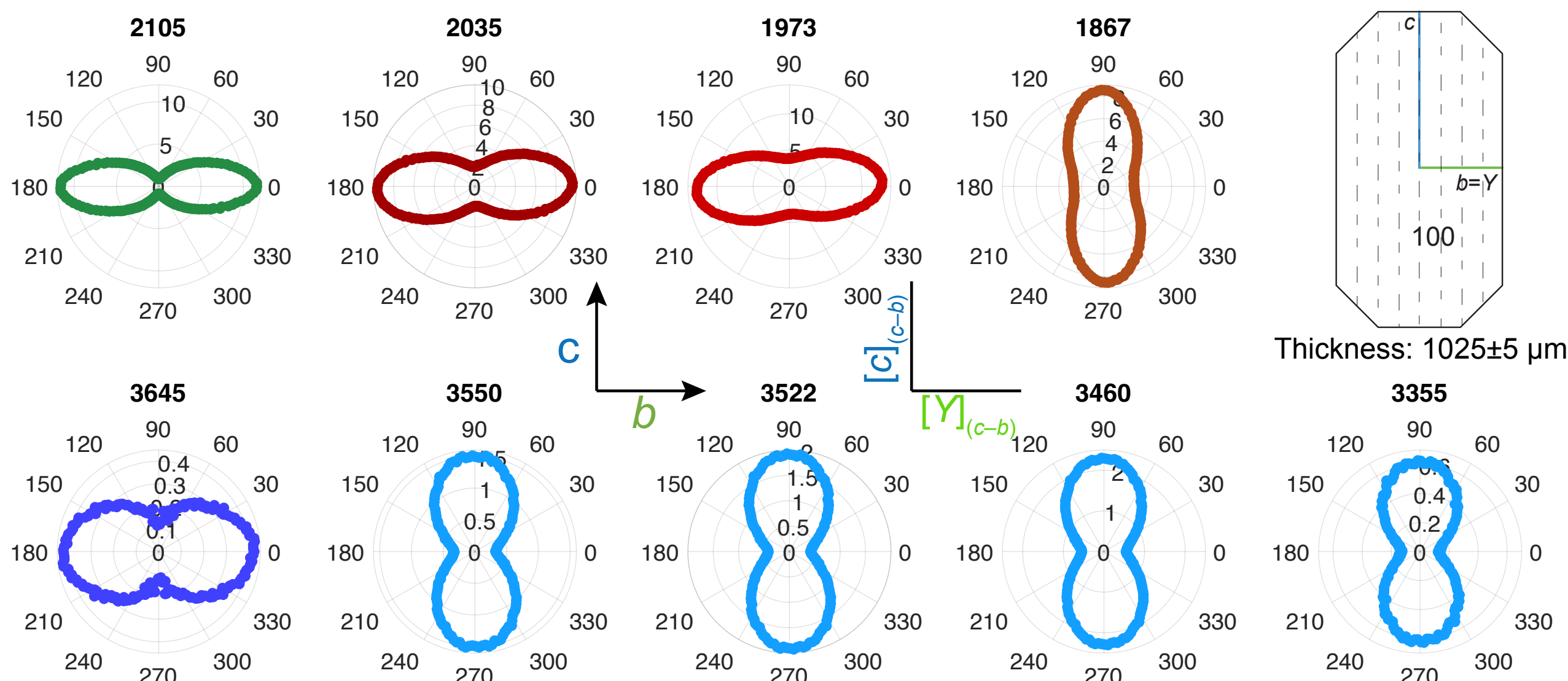
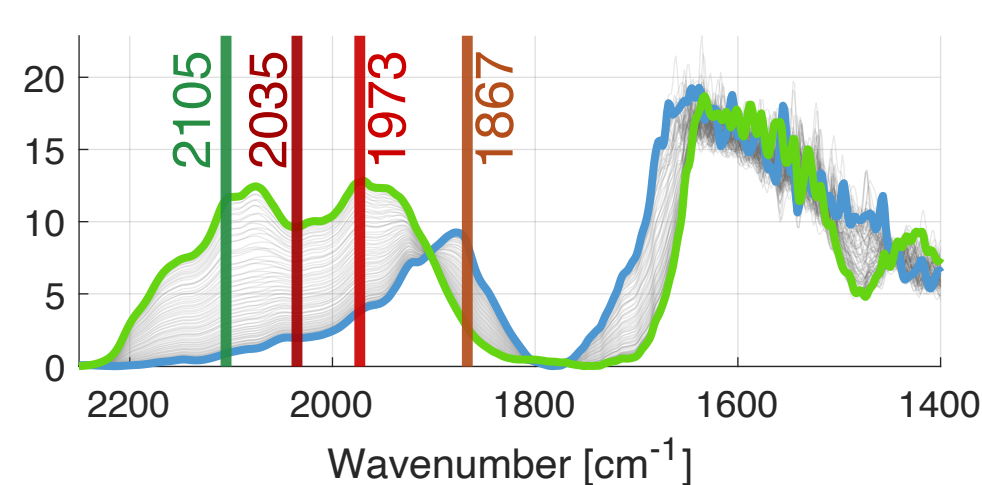


(b)

O–H Region

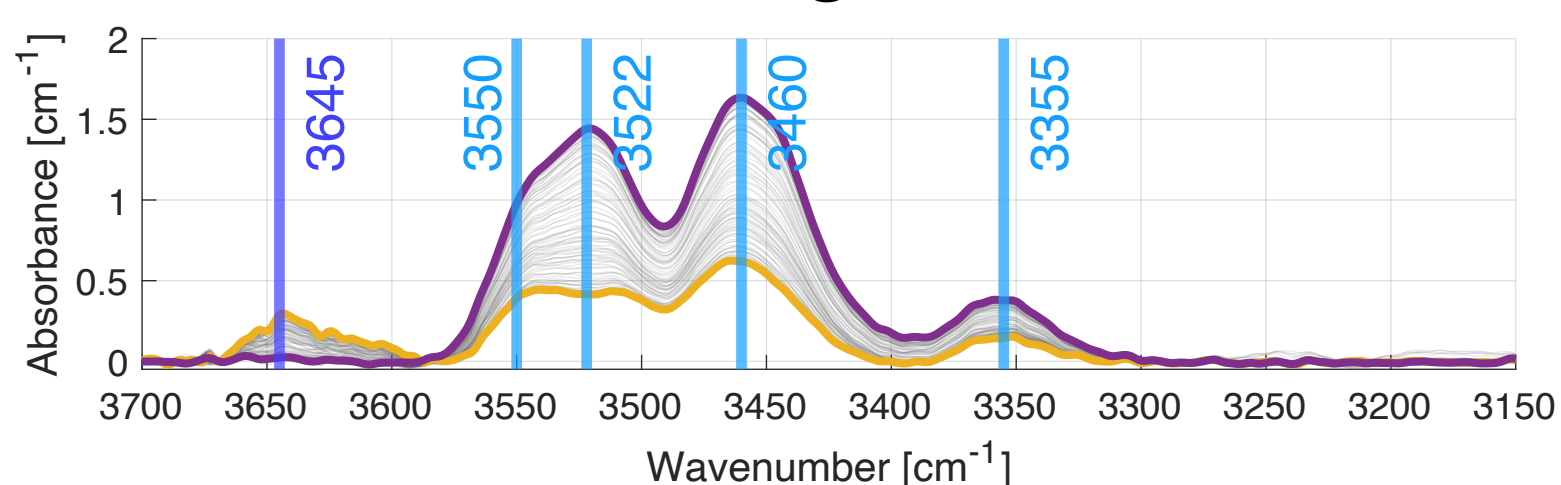


Si–O Overtone Region



(c)

O–H Region



Si–O Overtone Region

