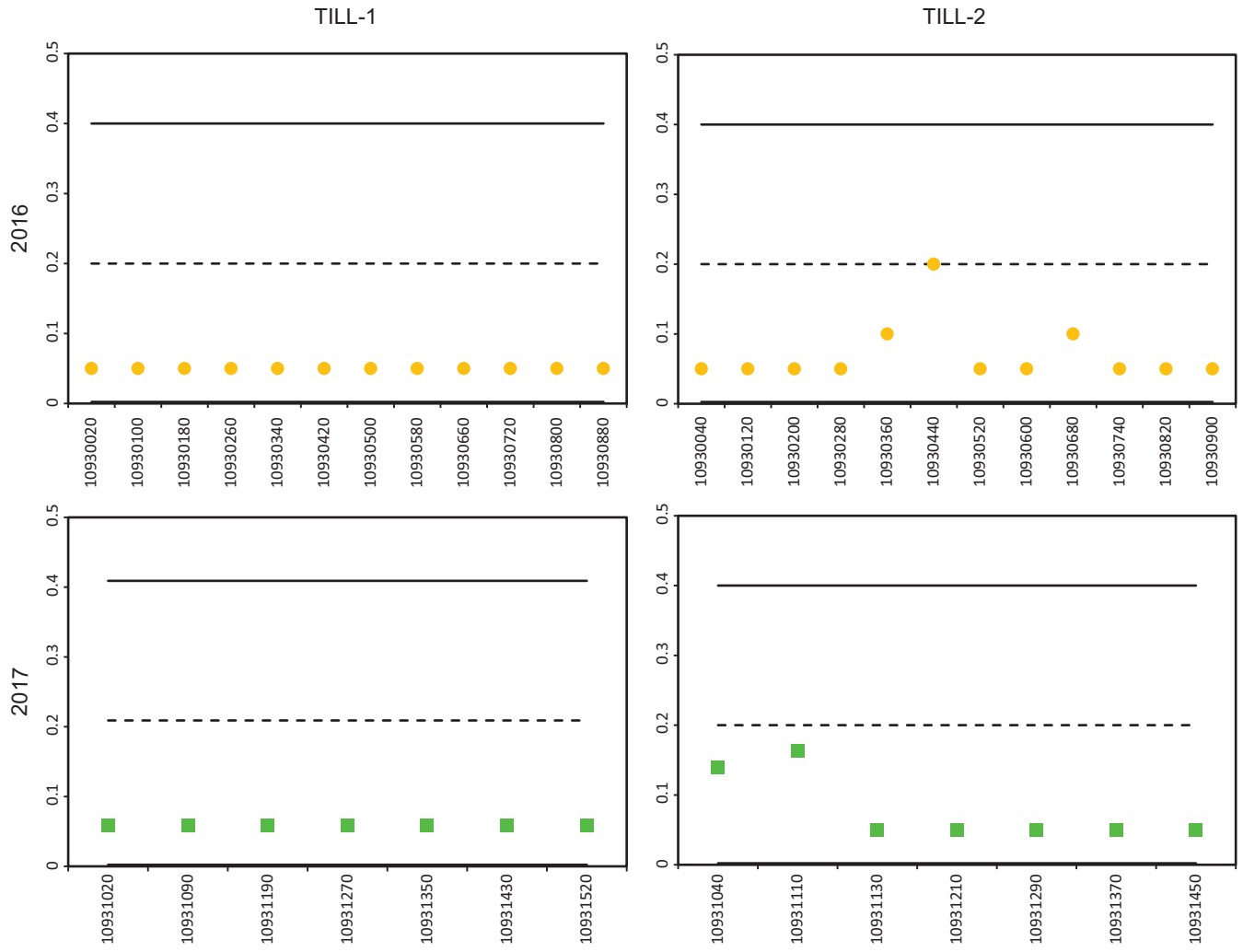


APPENDIX Q

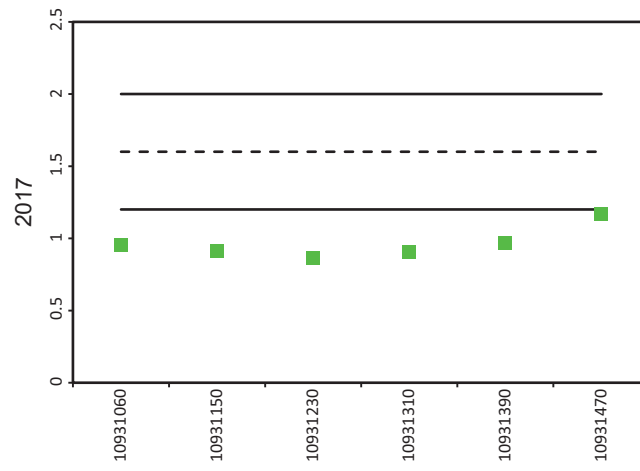
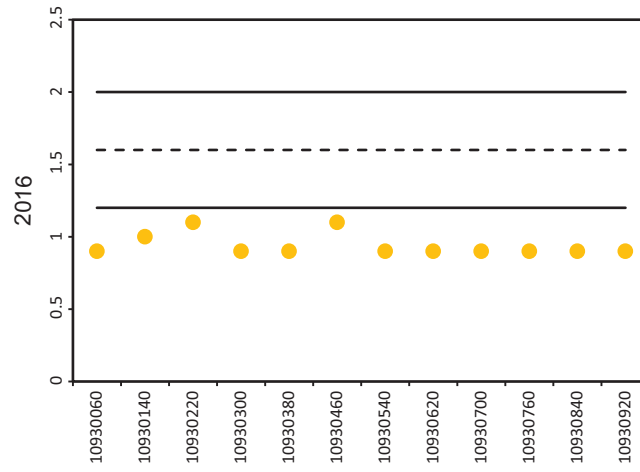
Control Charts of Analyses of CRM Till Standards TILL-1, TILL-2, TILL-3 and TILL-4 from 1987–88, 2016 and 2017, for all Elements Listed in Appendix A

Ag (Aqua Regia ICP-OES)

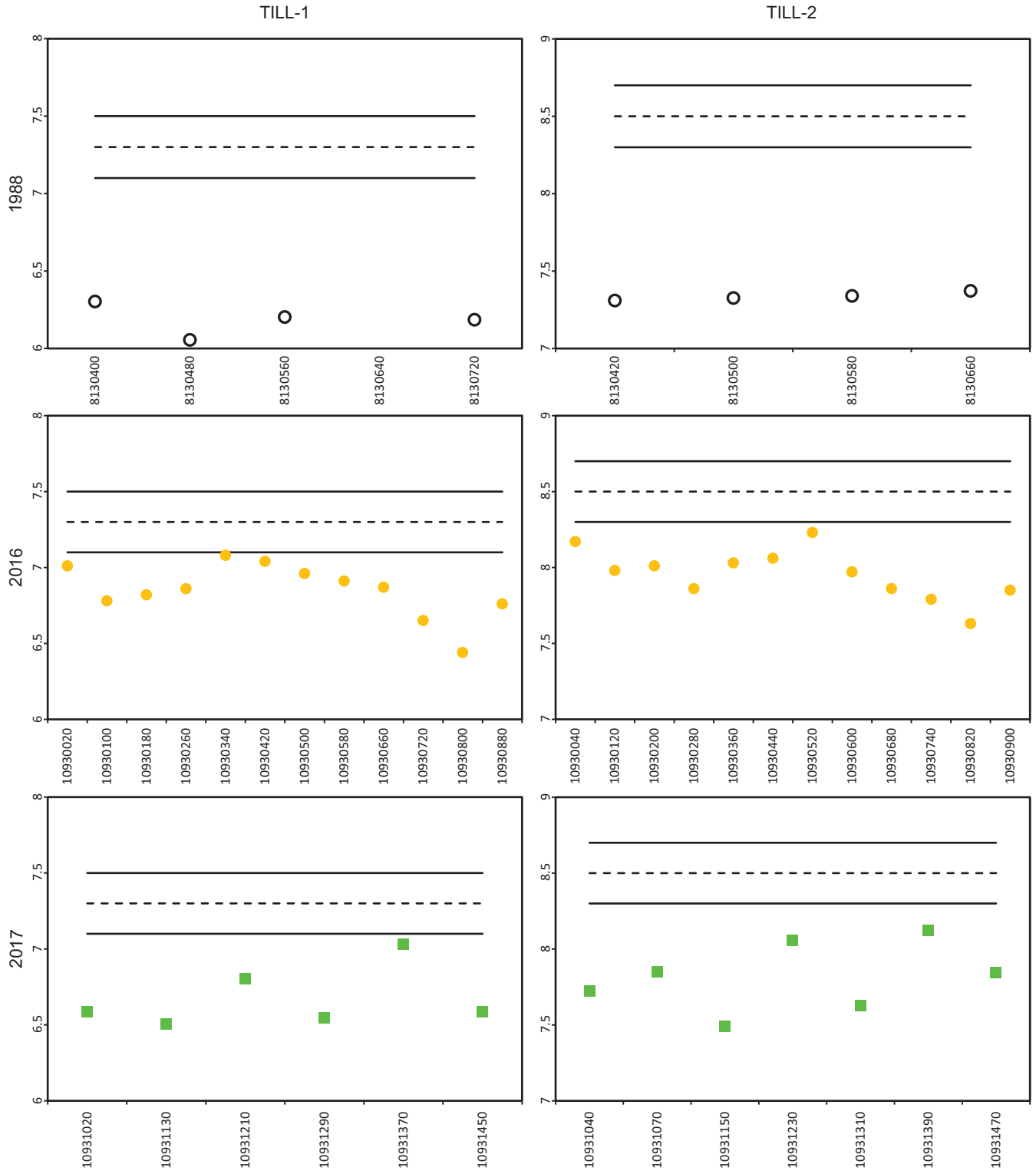


Ag (Aqua Regia ICP-OES)

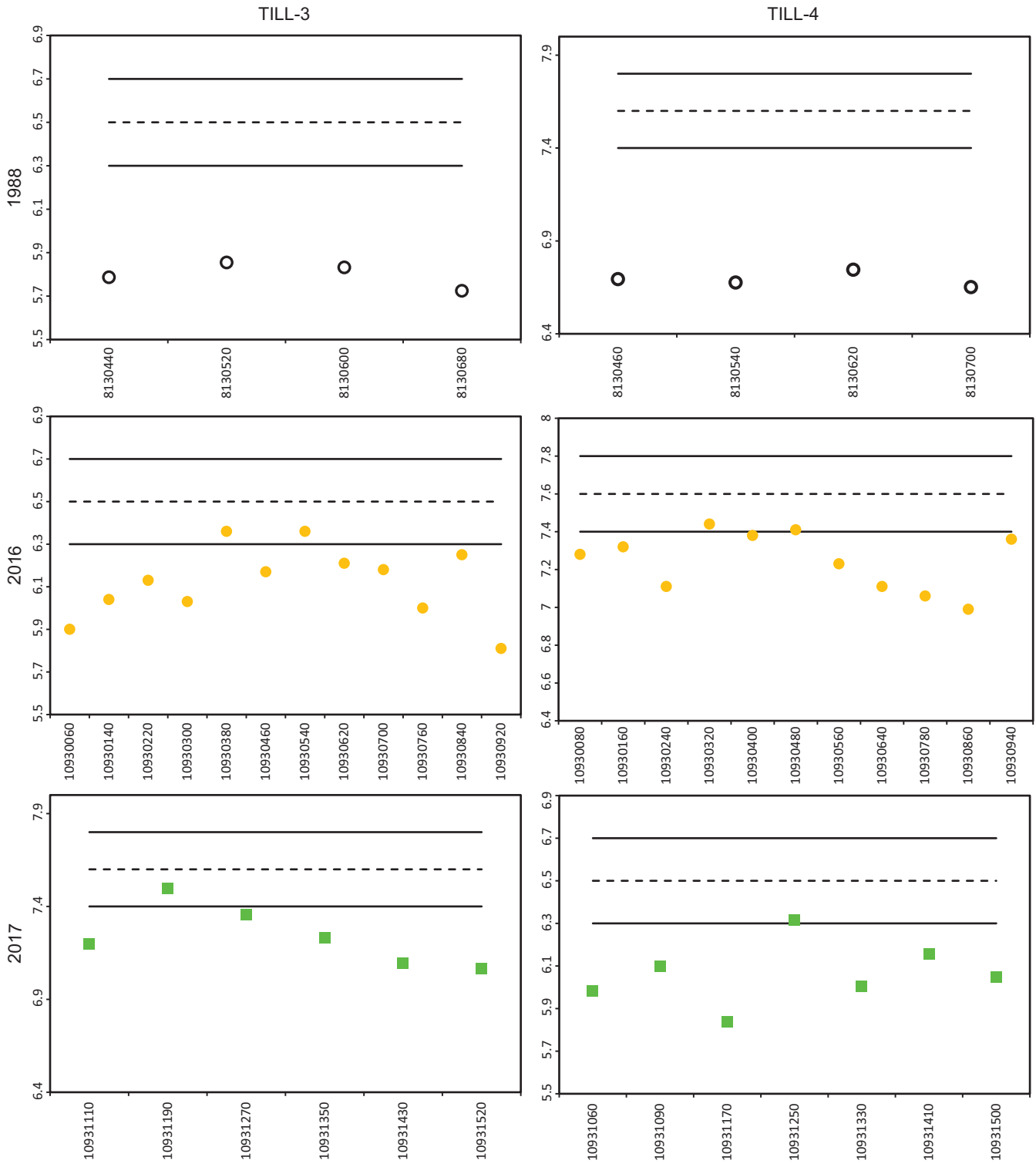
TILL-3



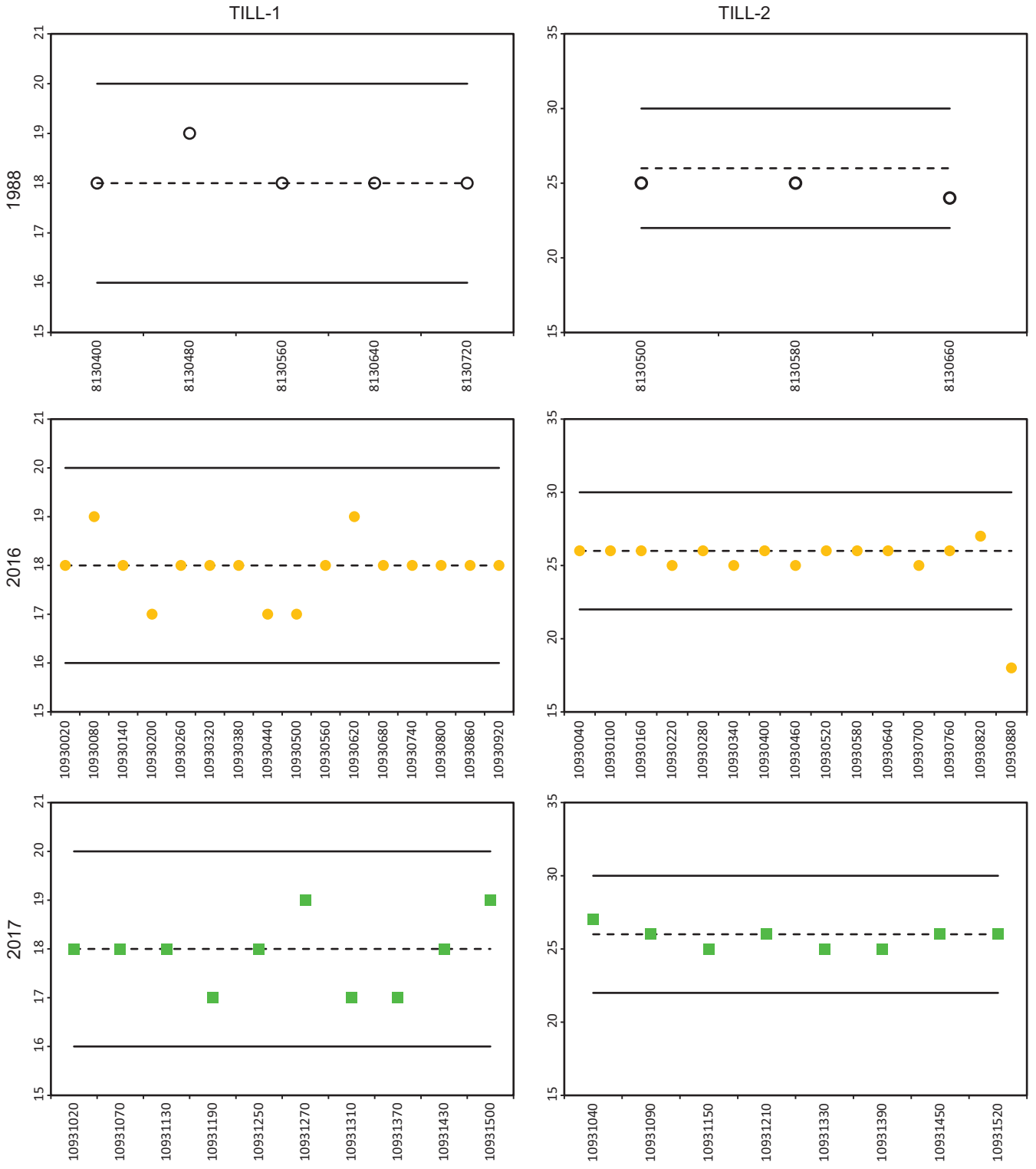
AI (Multiacid ICP-OES)



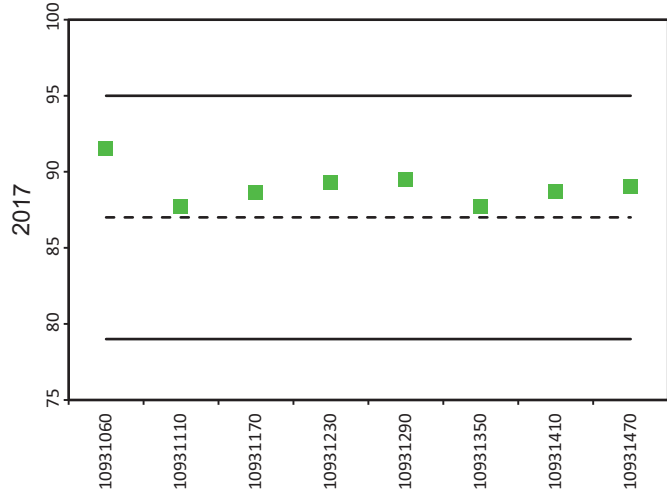
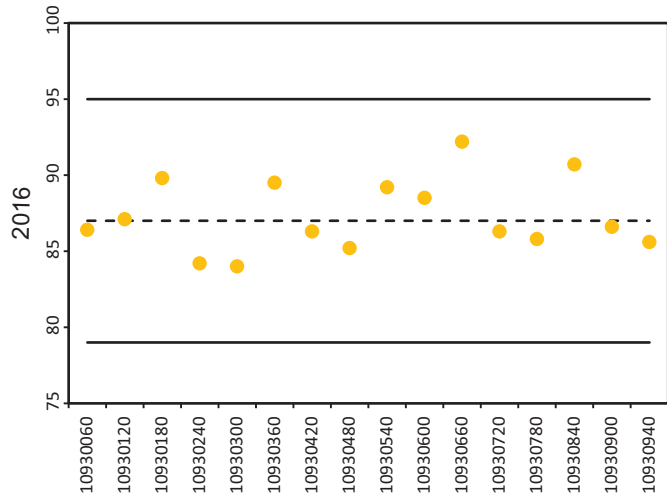
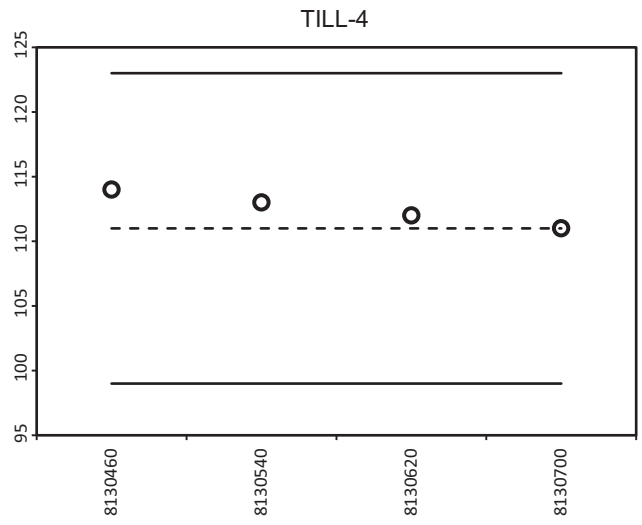
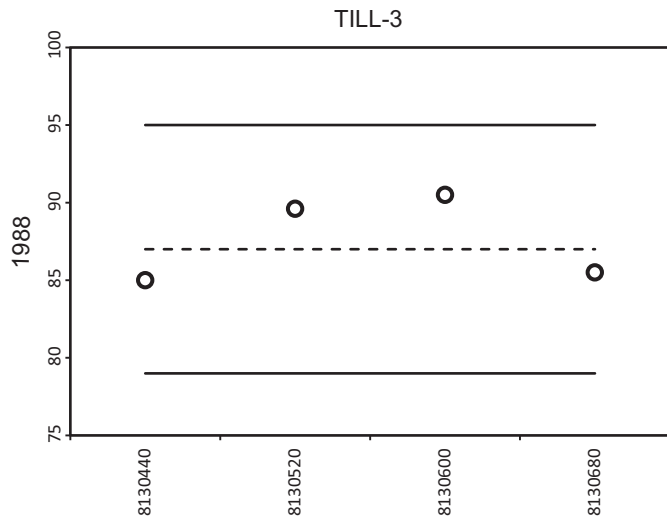
Al (Multiacid ICP-OES)



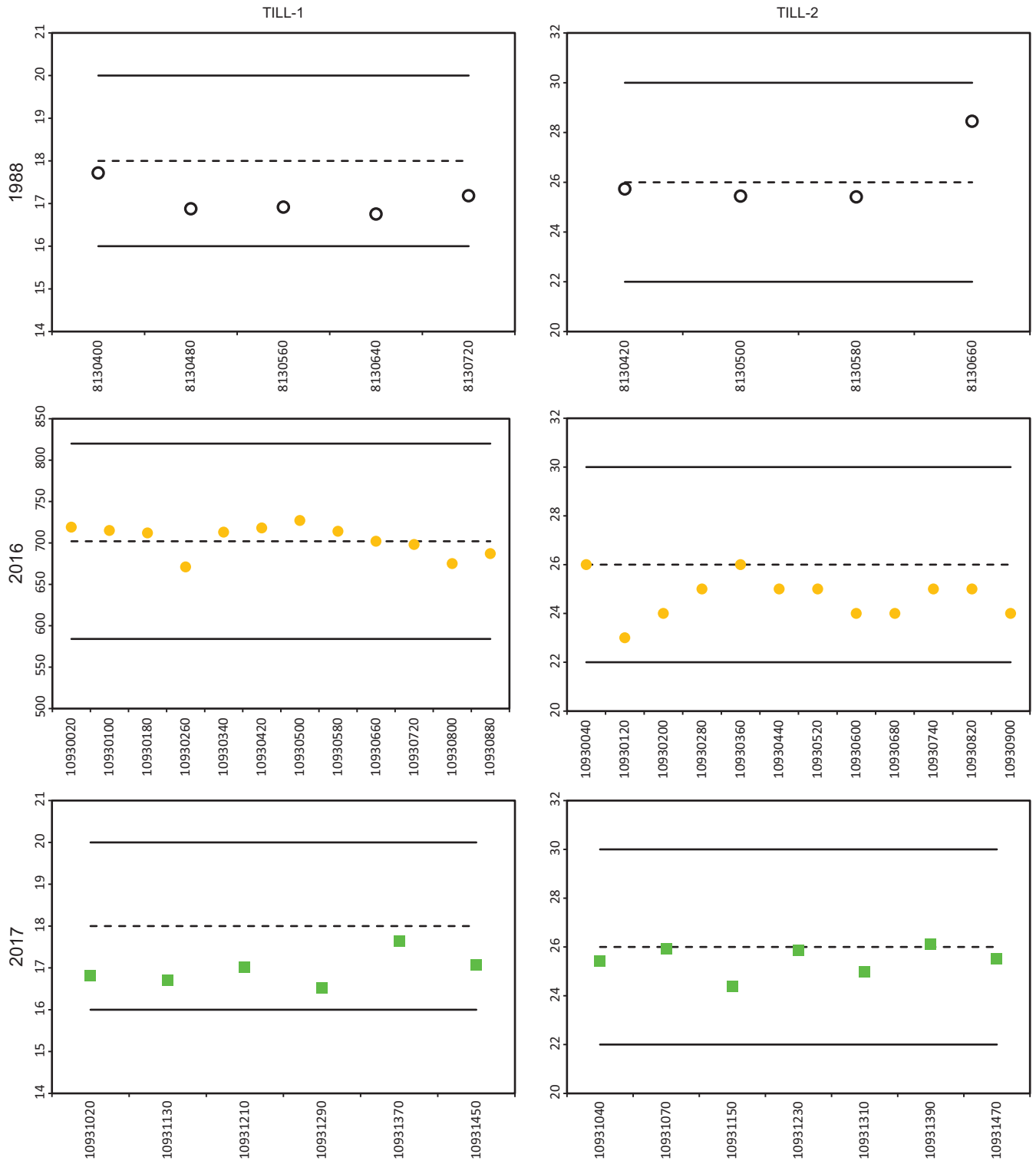
As (INAA)



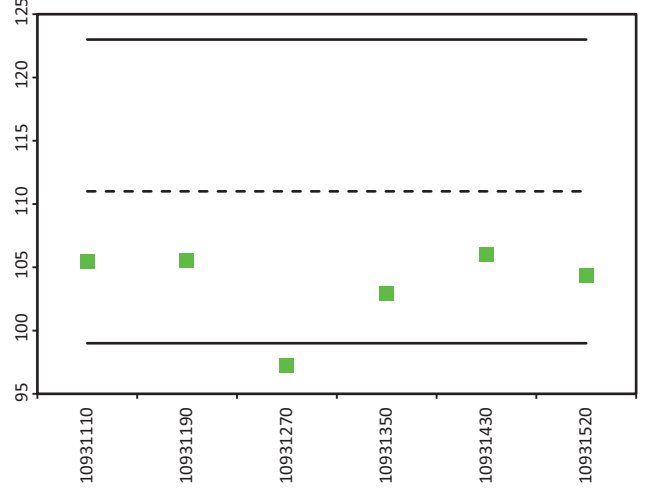
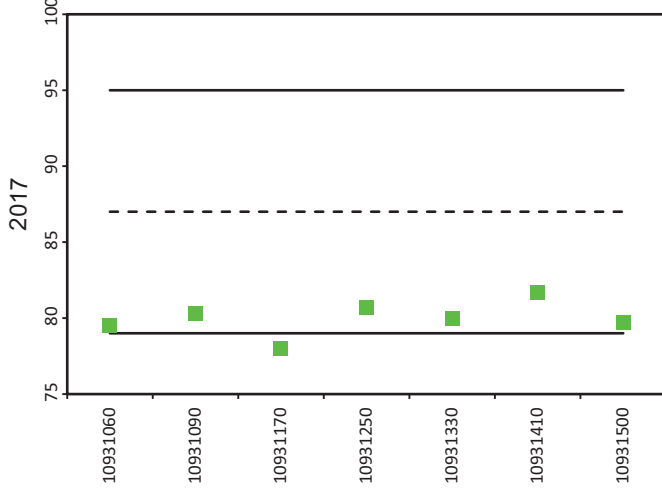
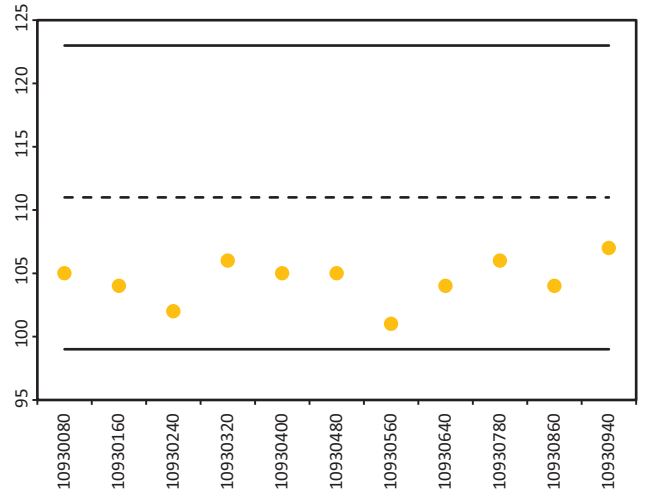
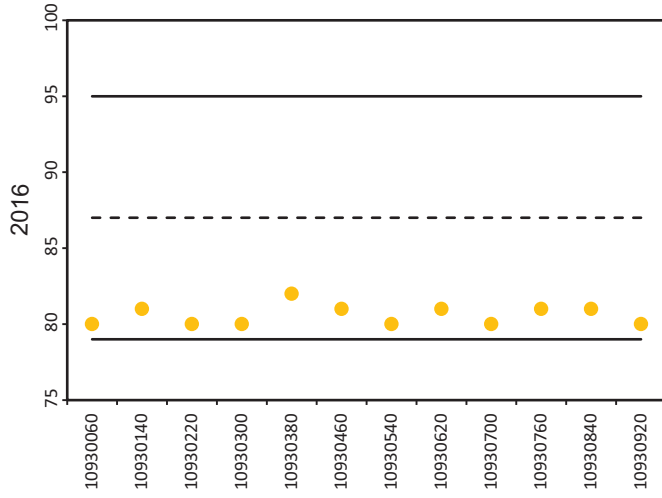
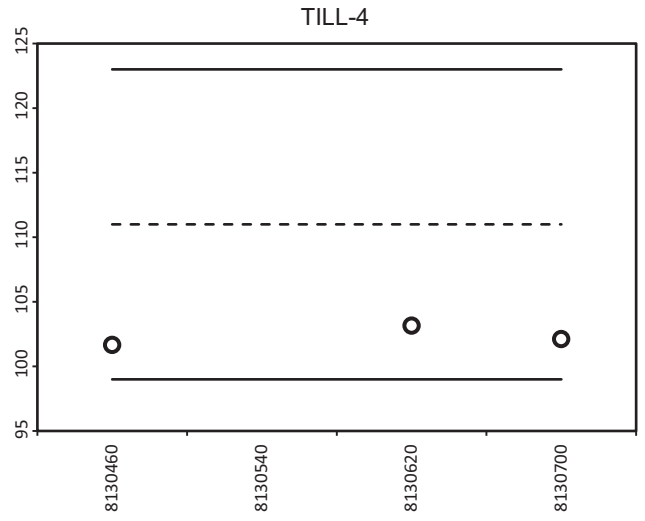
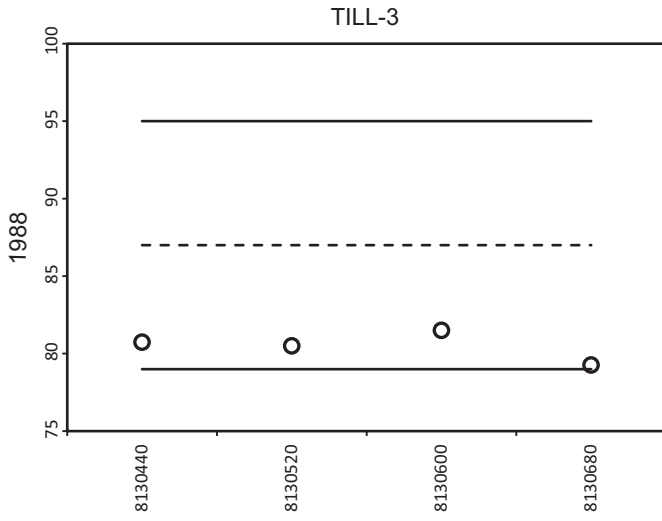
As (INAA)



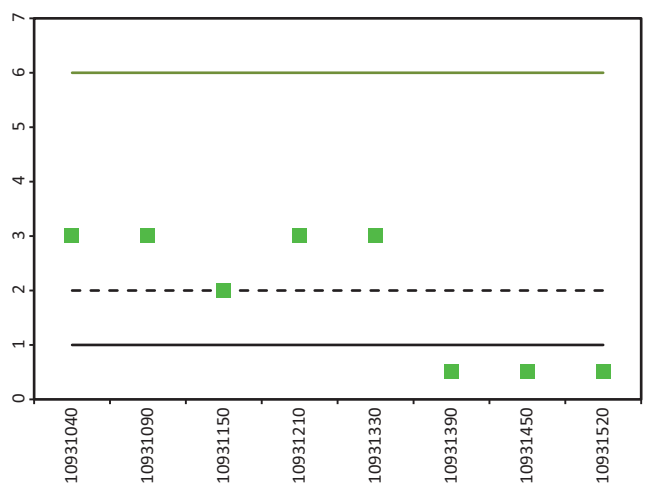
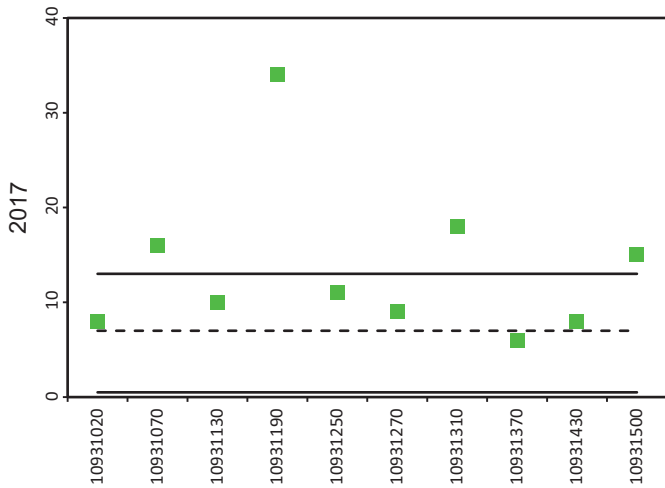
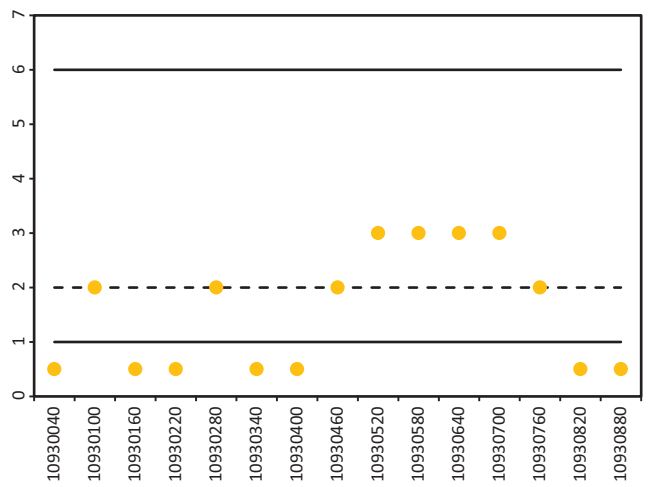
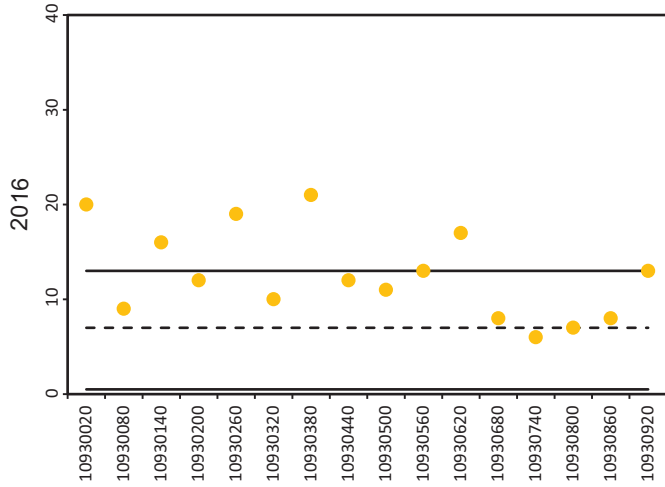
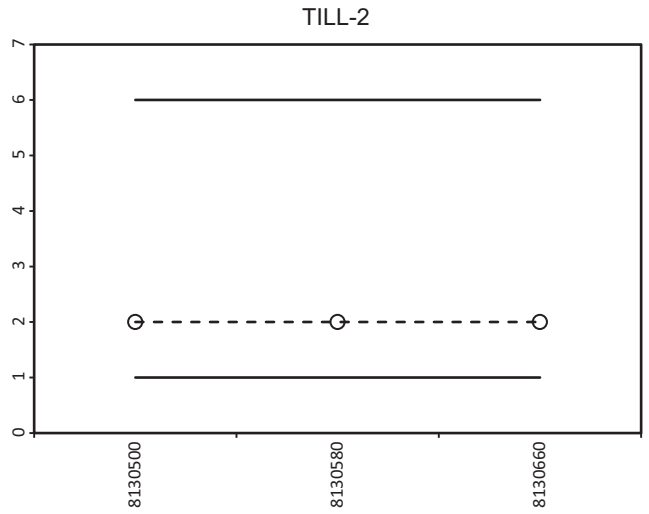
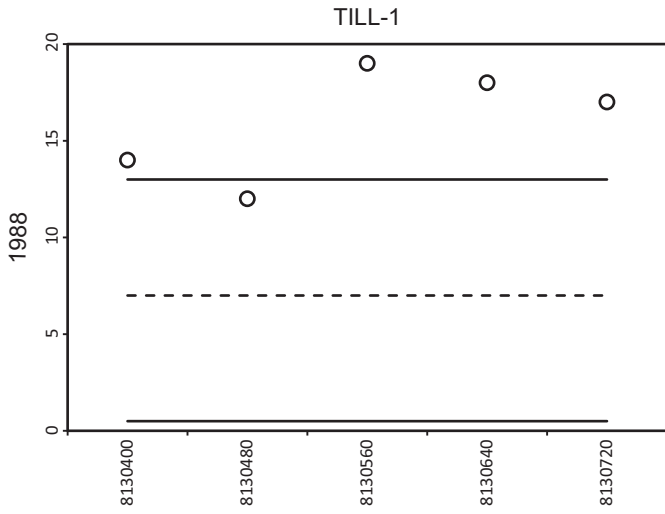
As (Multiacid ICP-OES)



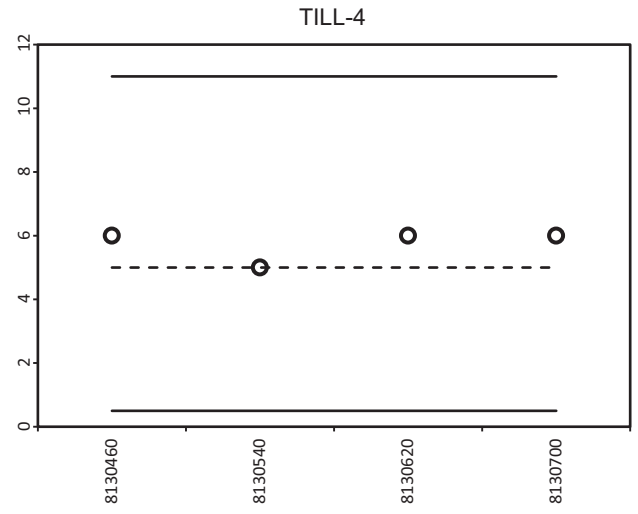
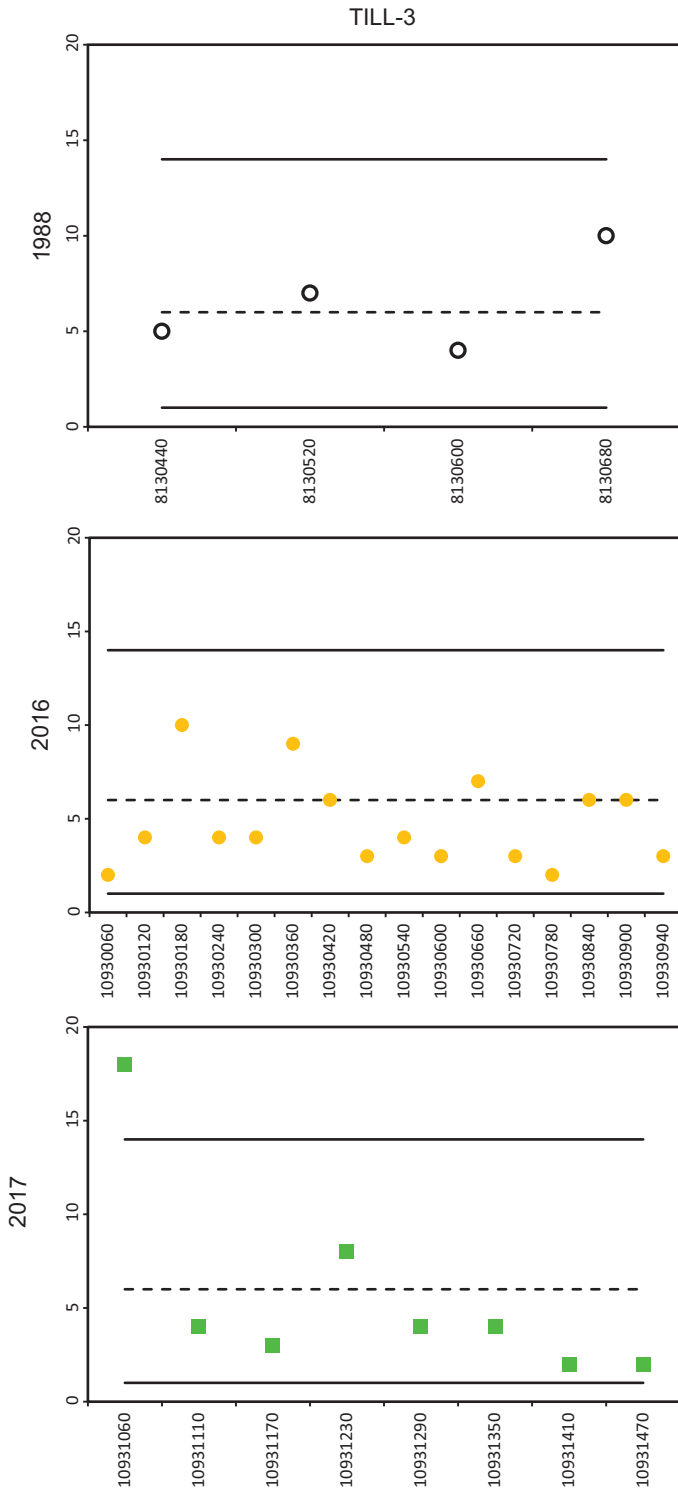
As (Multiacid ICP-OES)



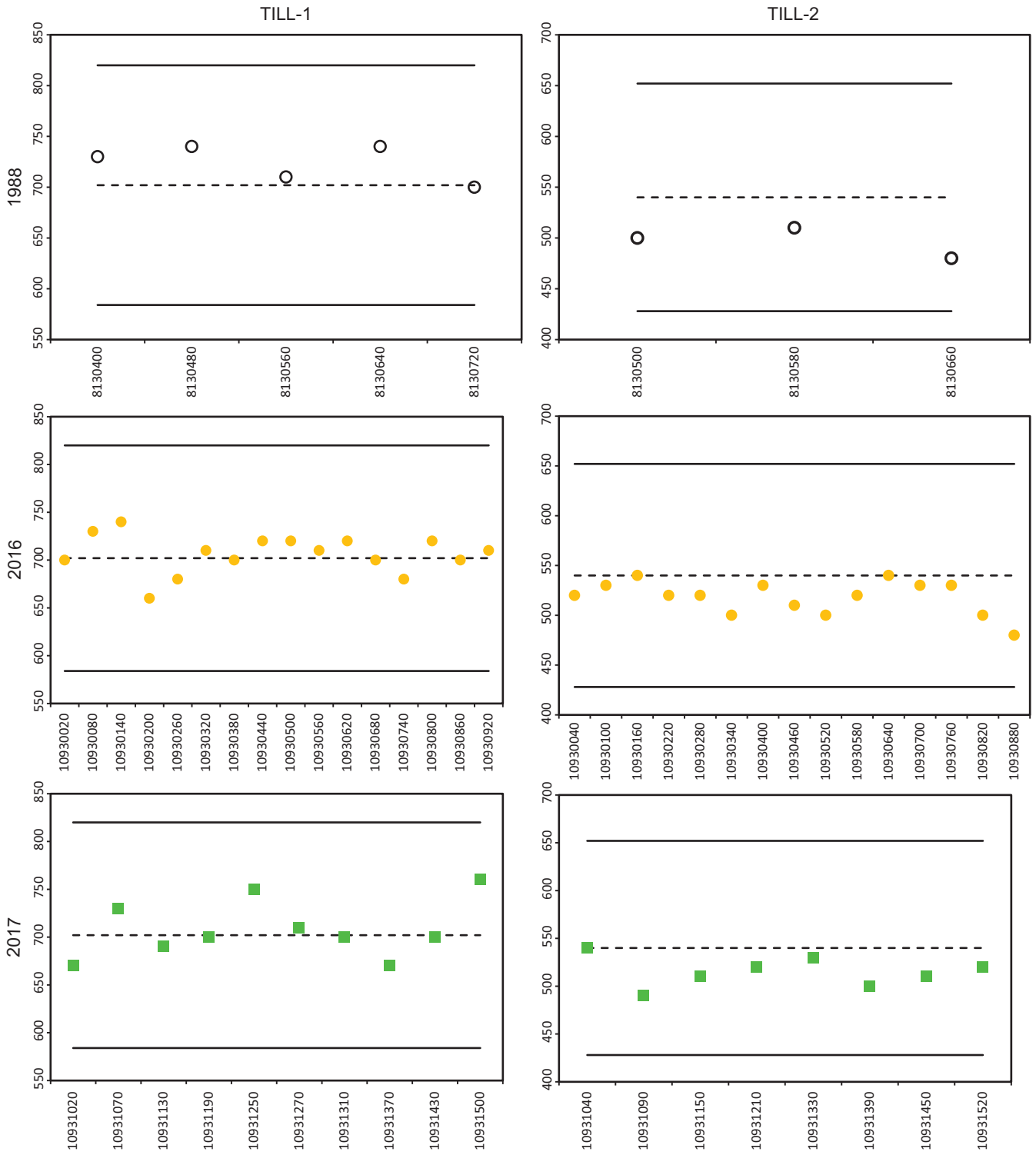
Au (INAA)



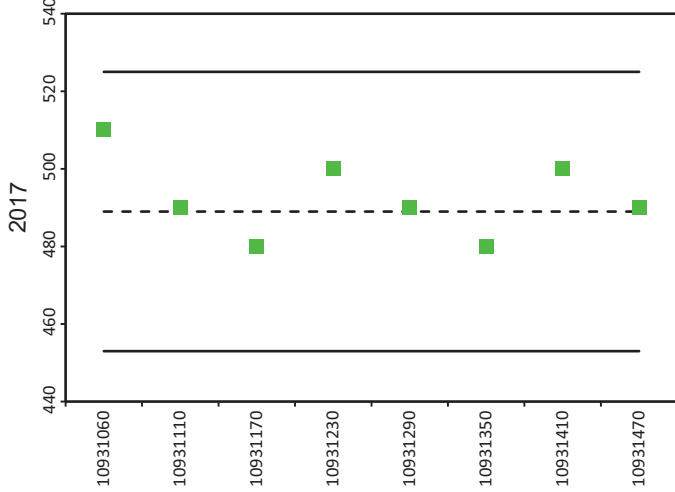
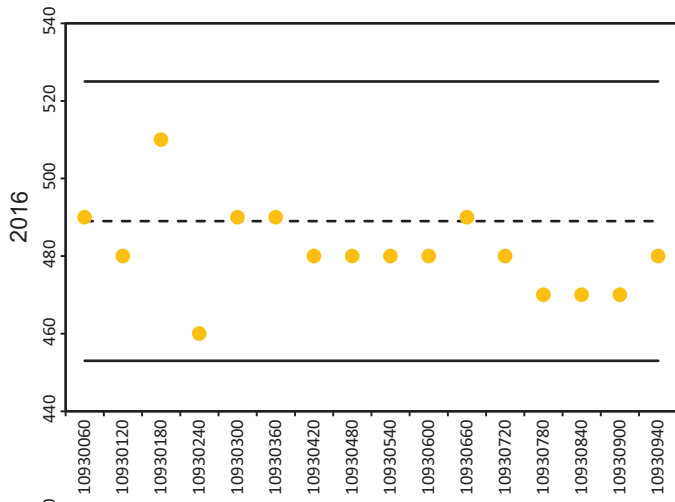
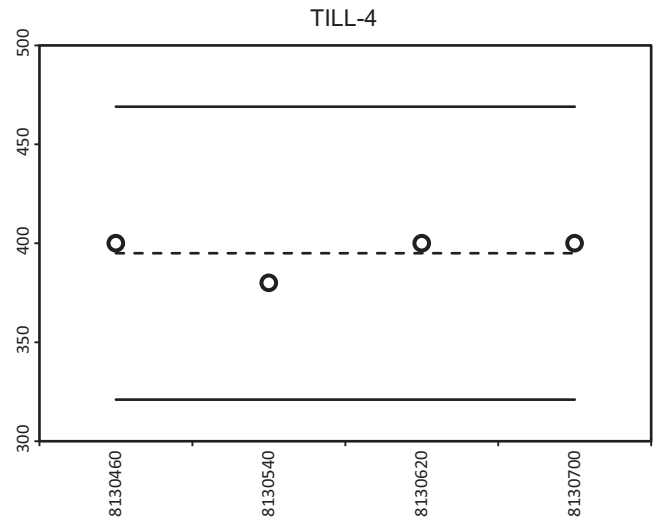
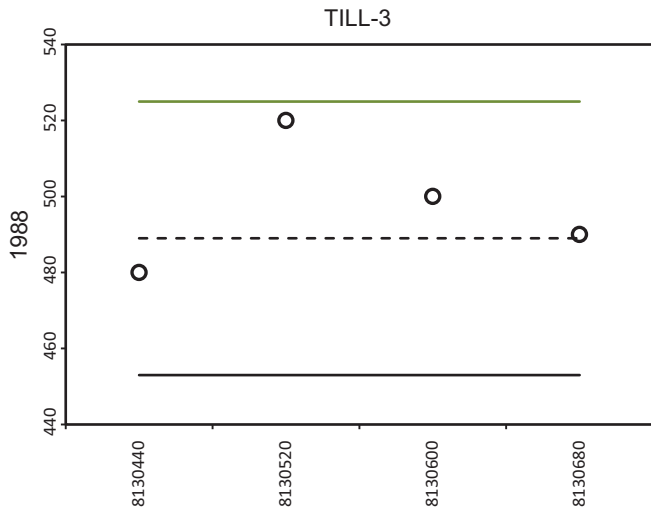
Au (INAA)



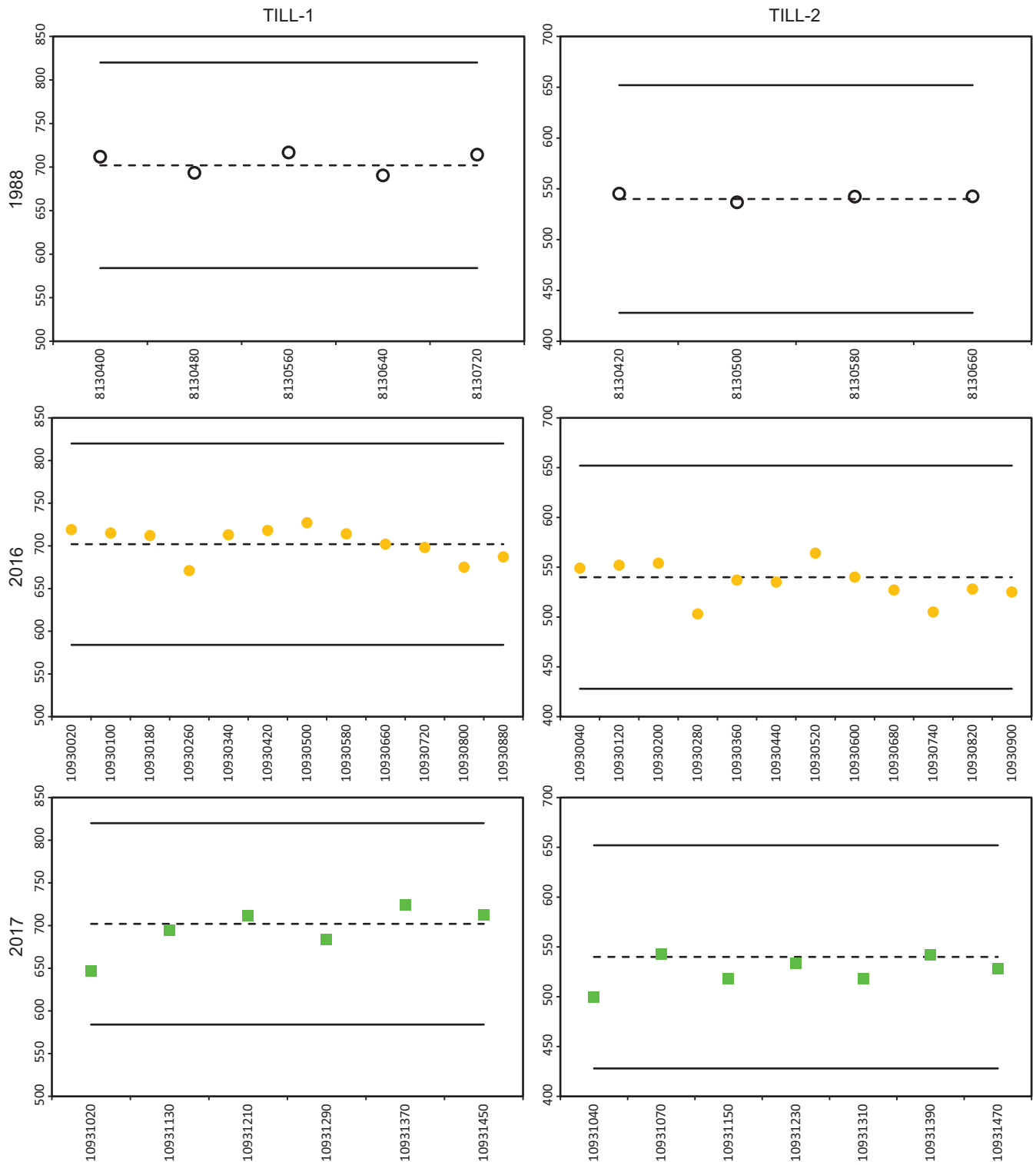
Ba (INAA)



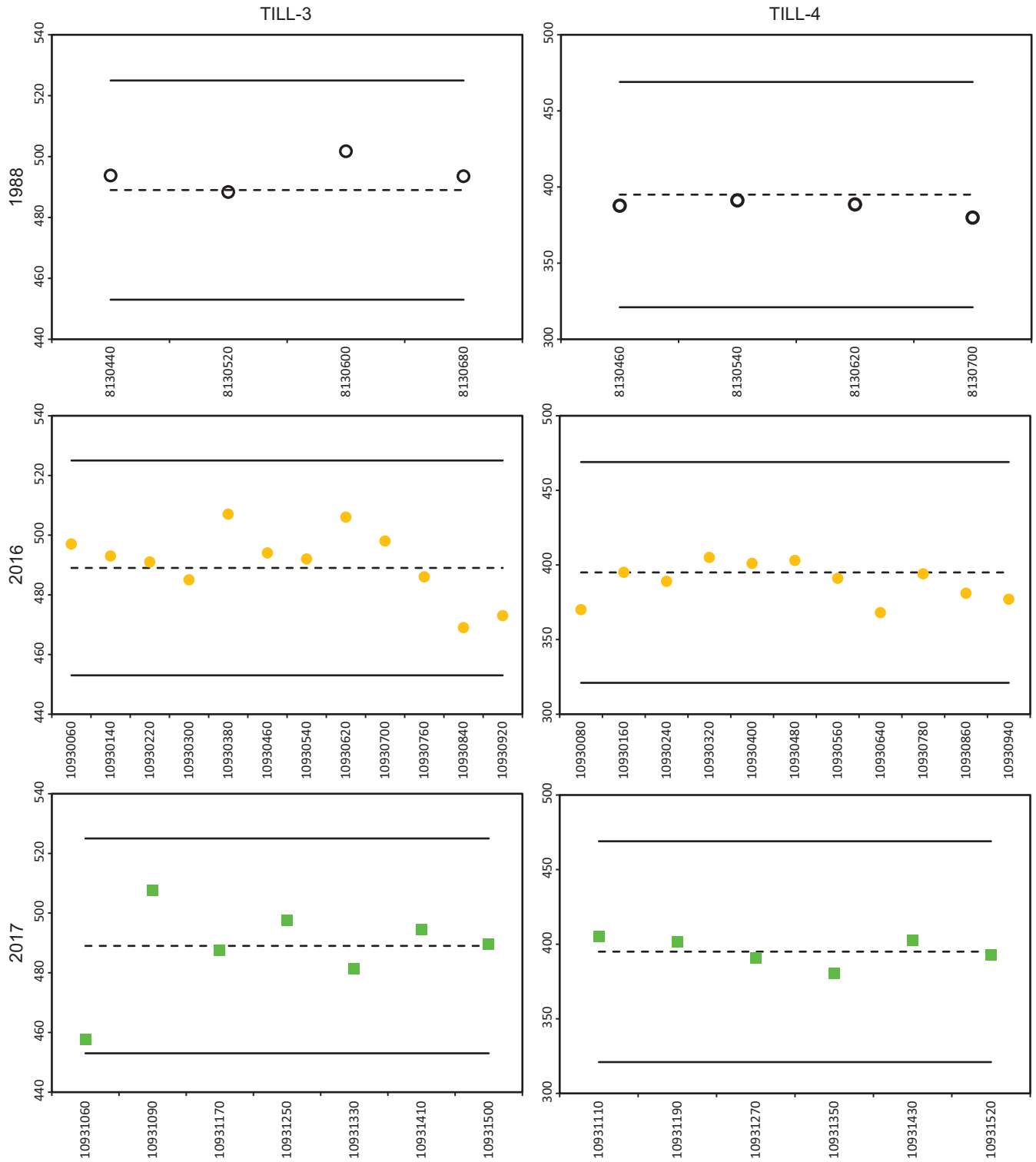
Ba (INAA)



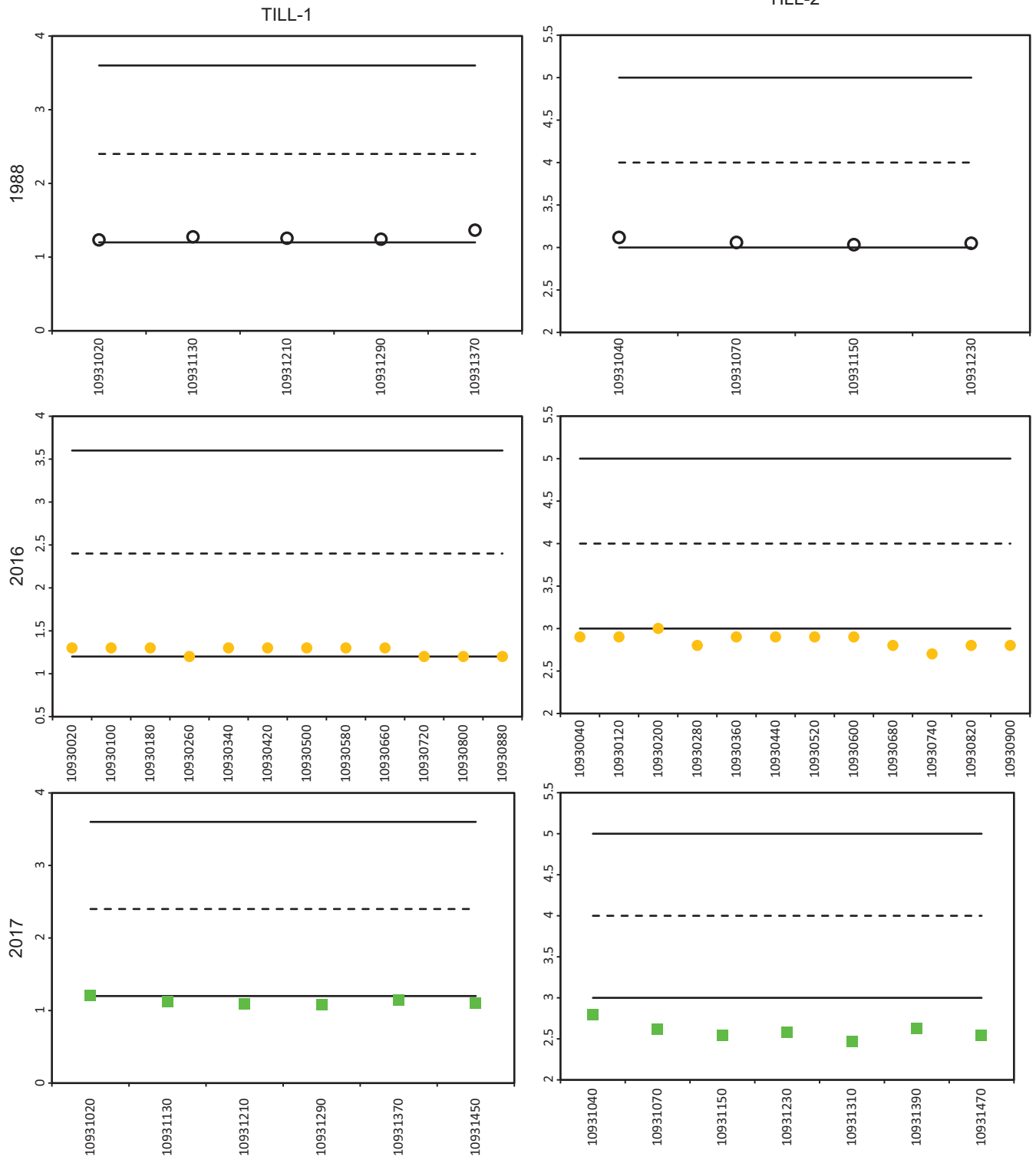
Ba (Multiacid ICP-OES)



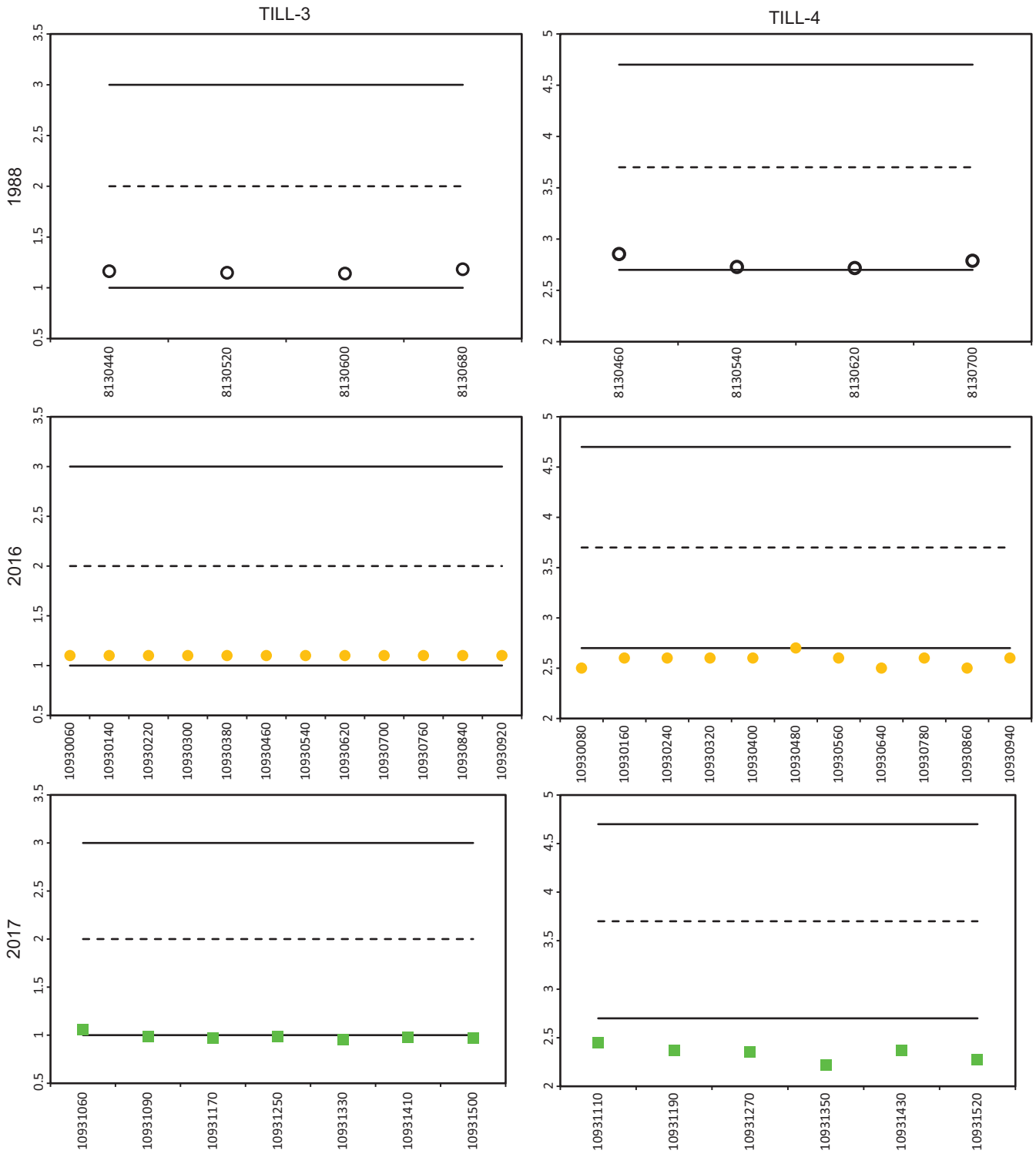
Ba (Multiacid ICP-OES)



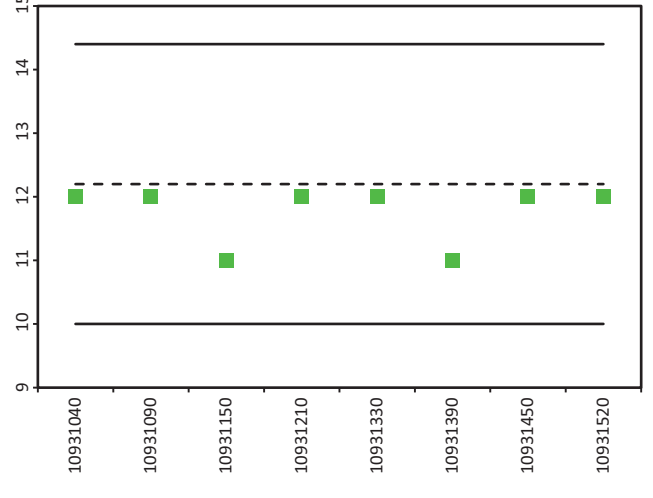
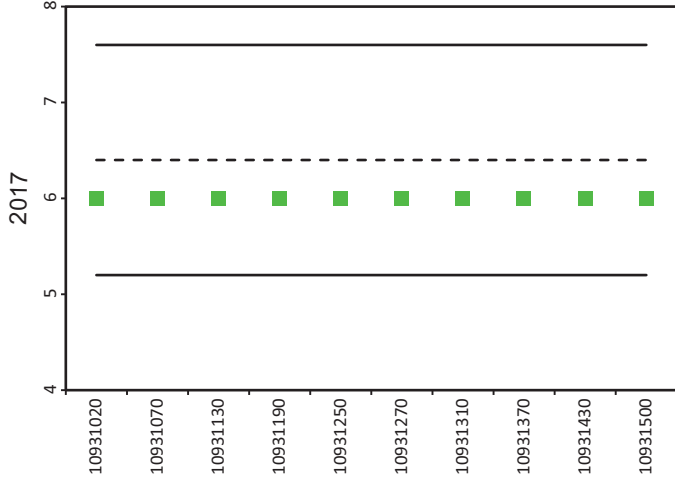
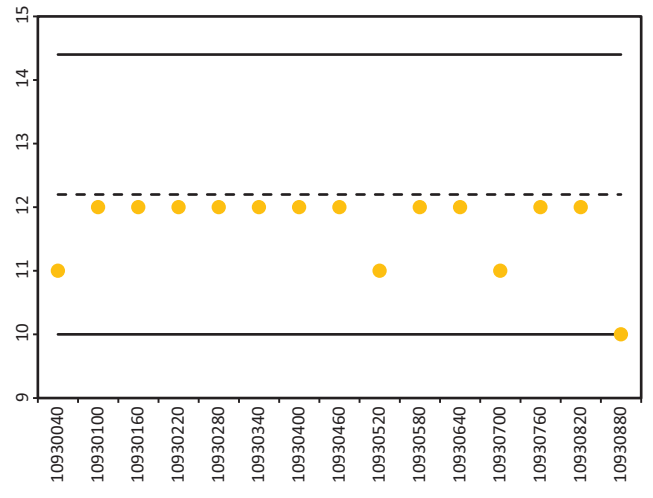
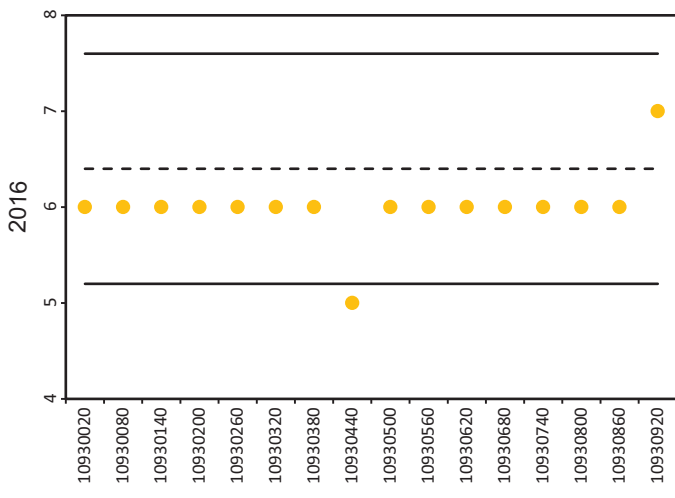
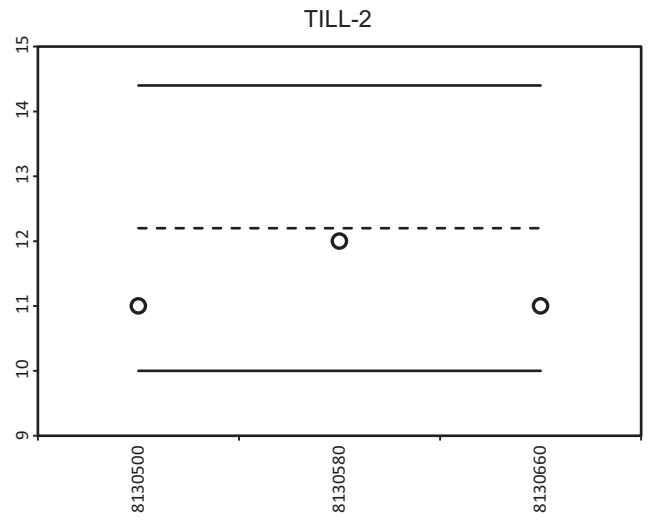
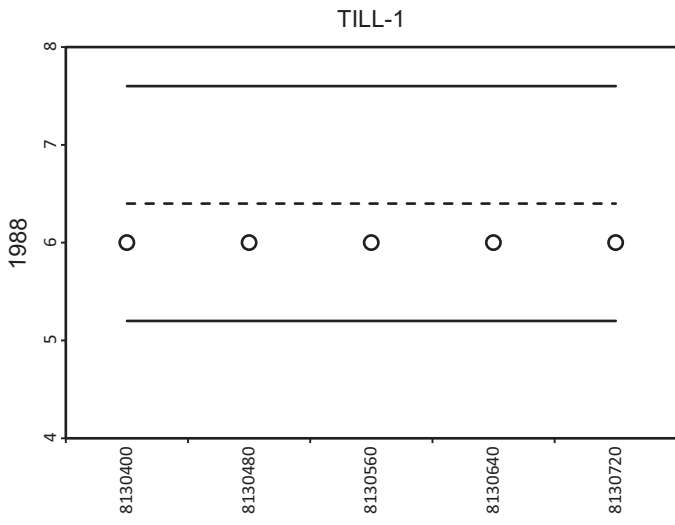
Be (Multiacid ICP-OES)



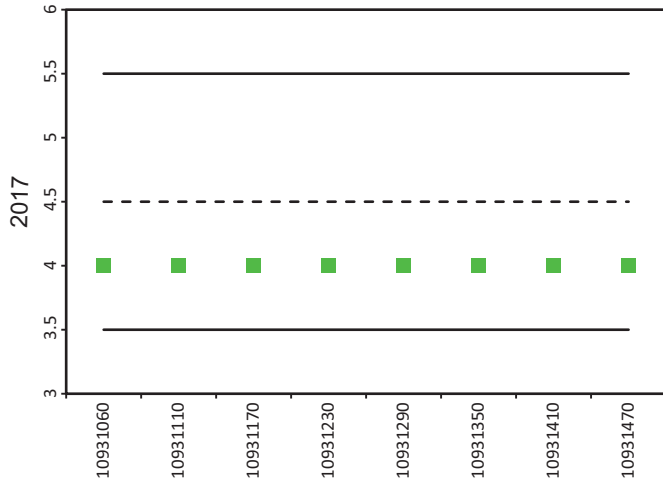
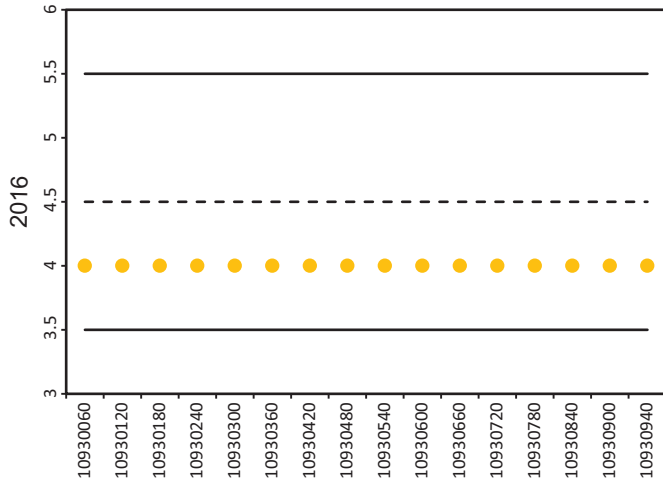
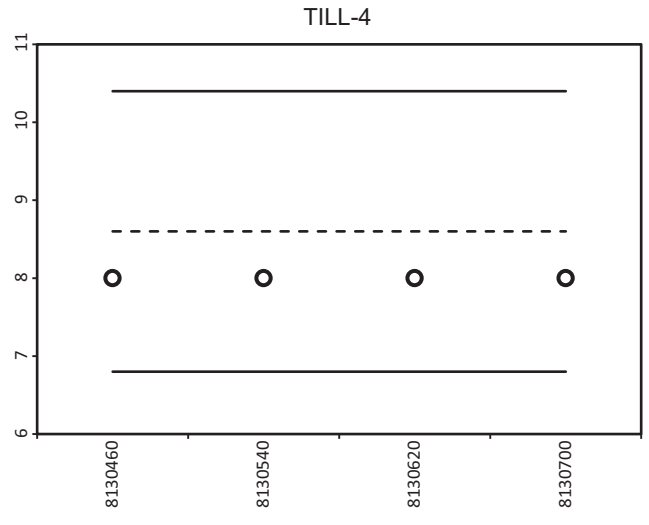
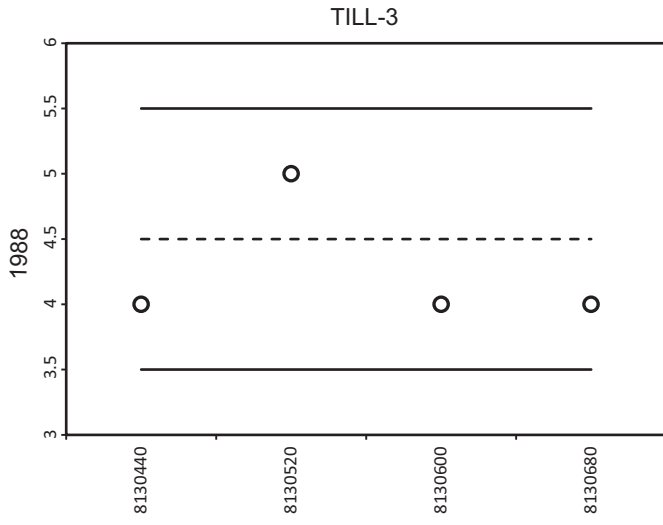
Be (Multiacid ICP-OES)



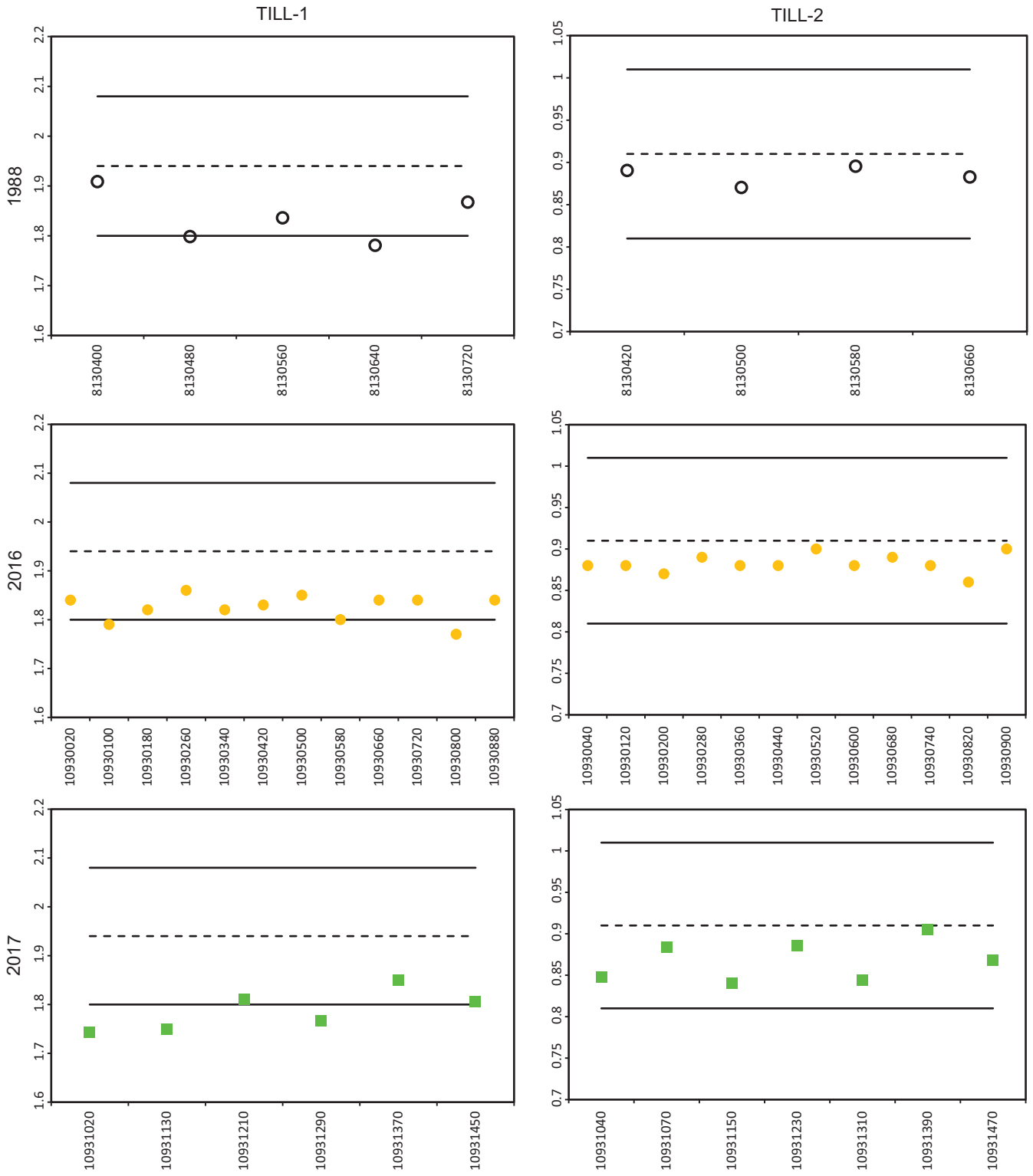
Br (INAA)



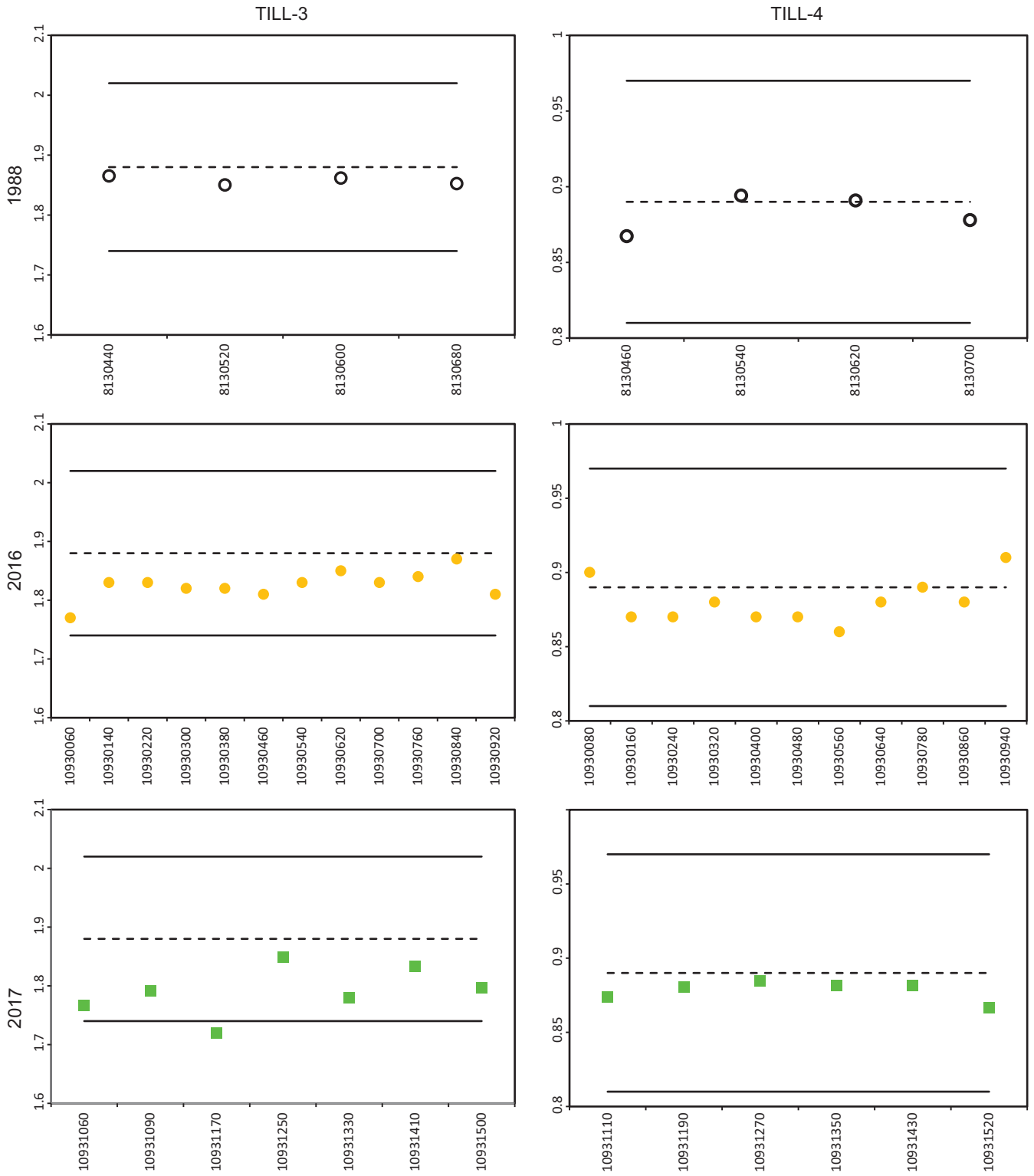
Br (INAA)



Ca (Multiacid ICP-OES)

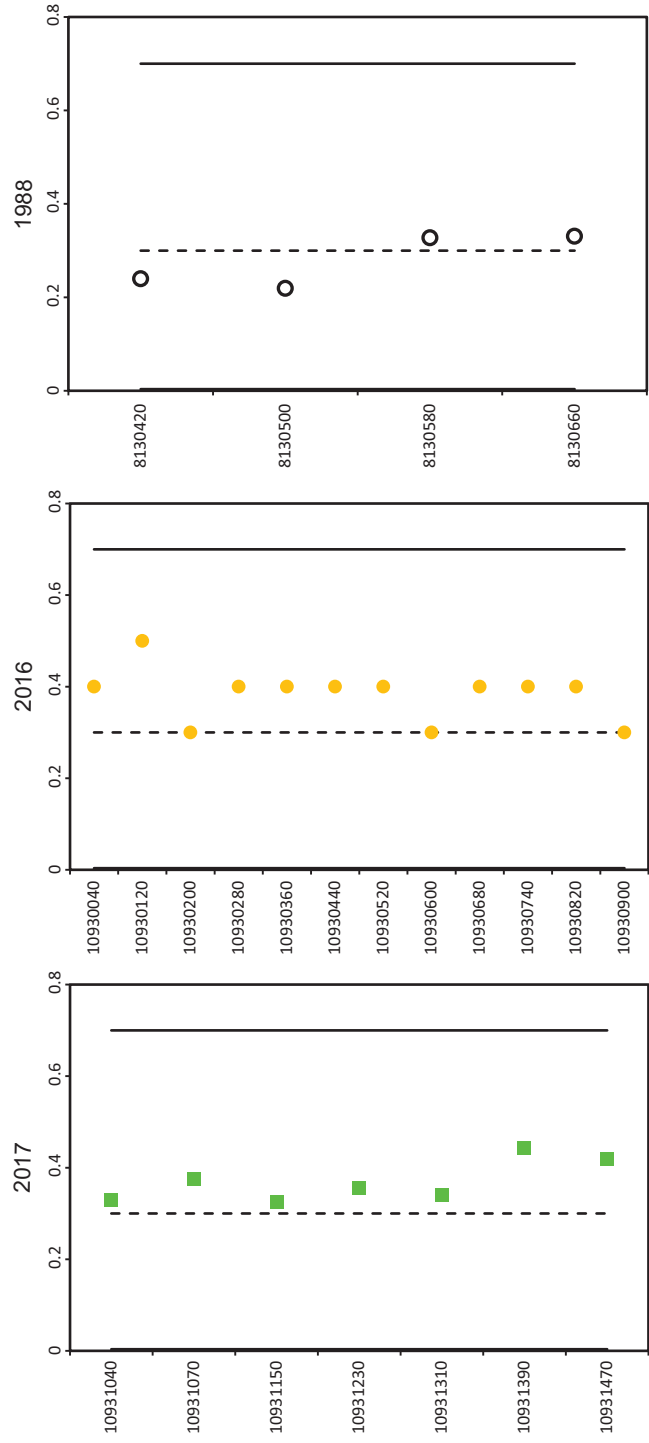


Ca (Multiacid ICP-OES)

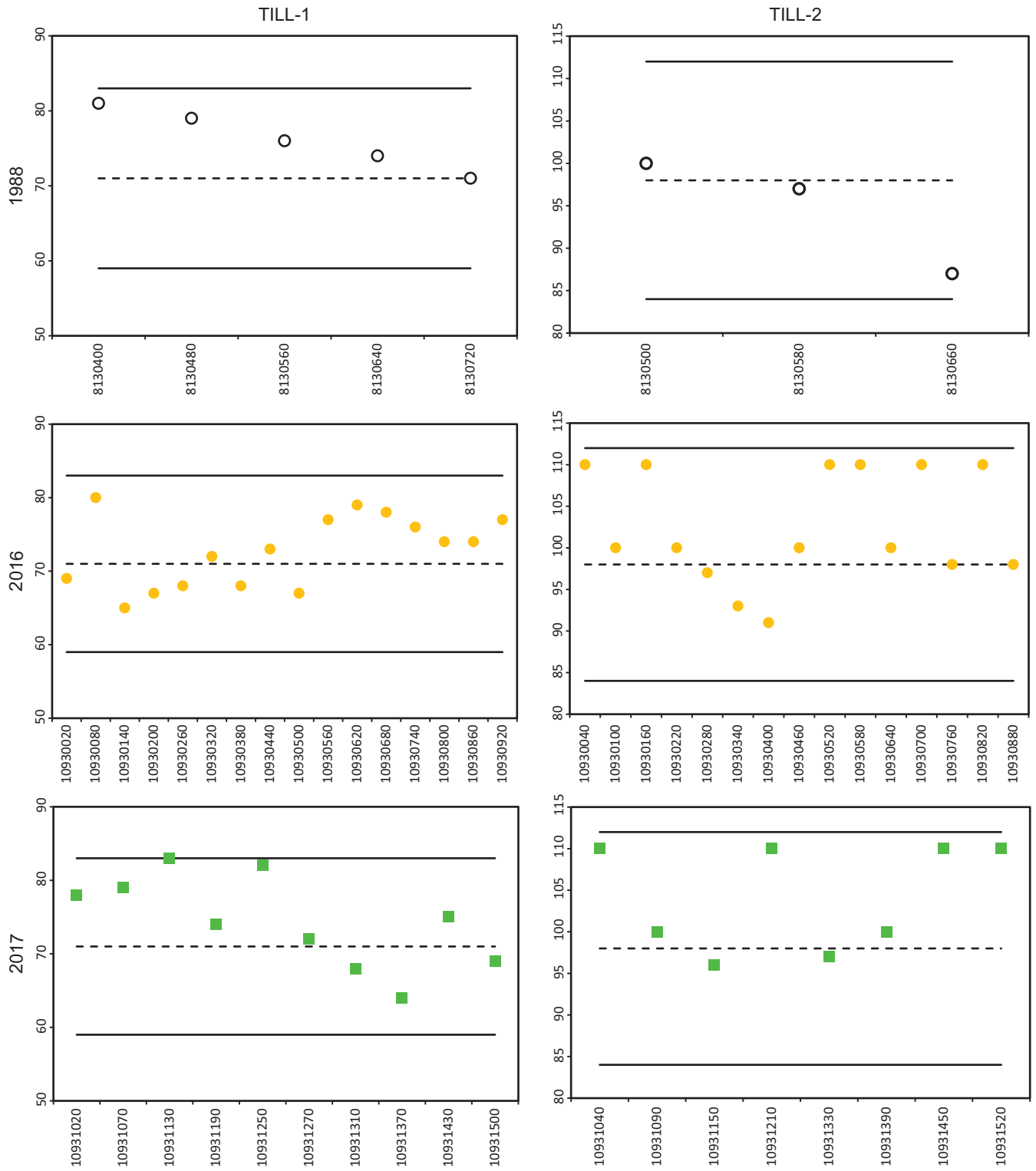


Cd (Multiacid ICP-OES)

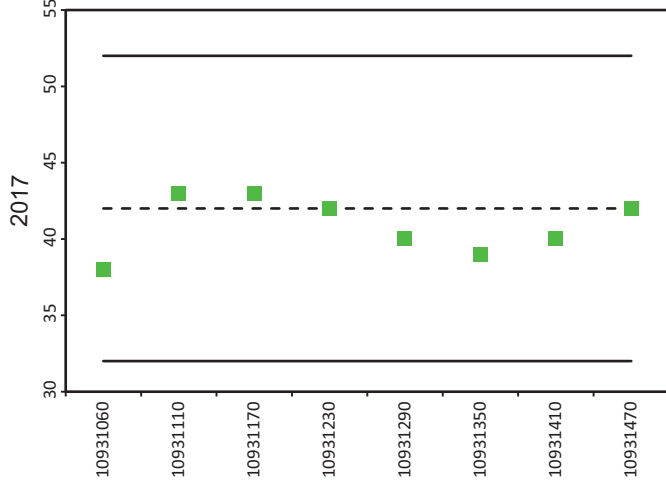
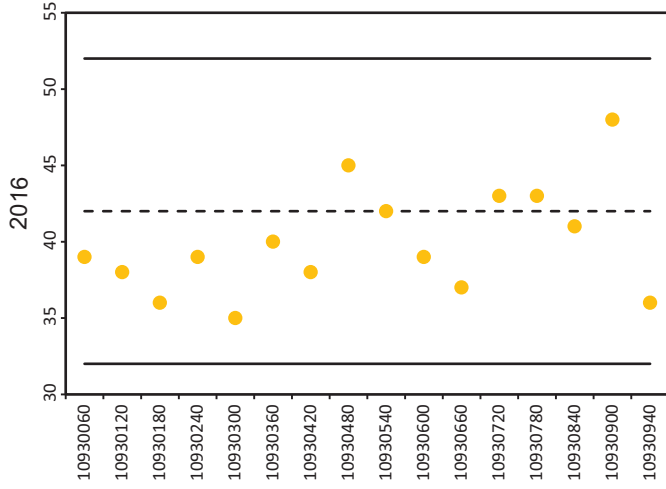
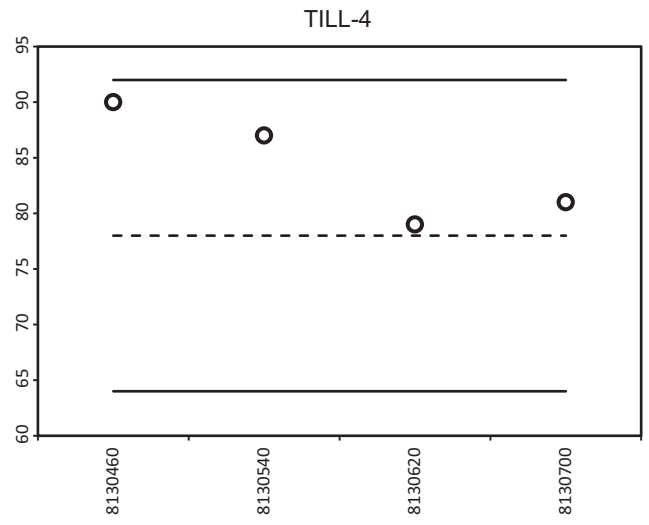
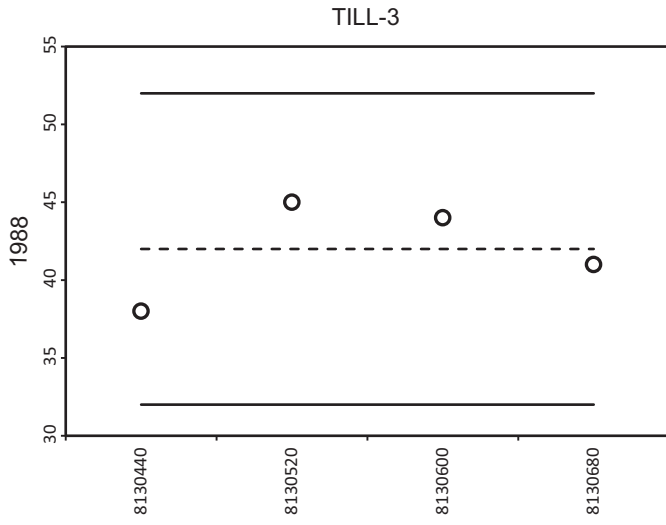
TILL-2



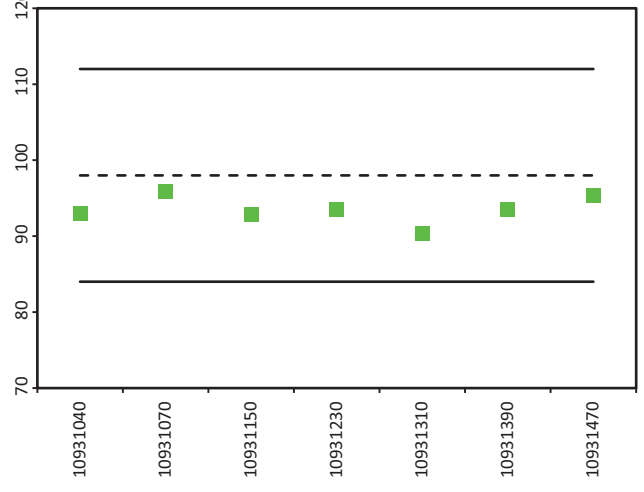
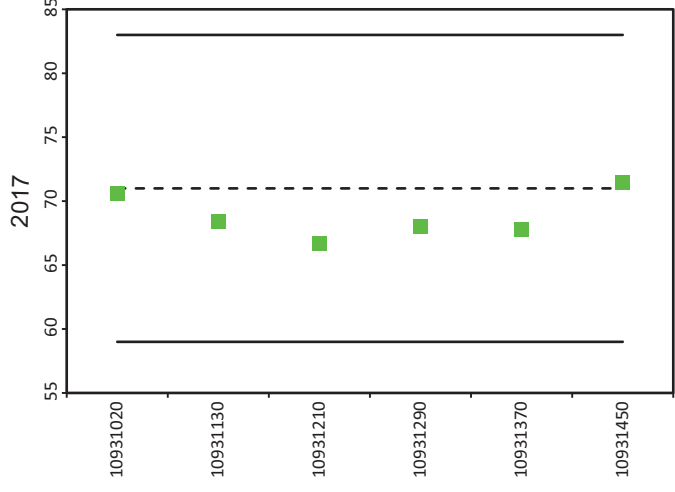
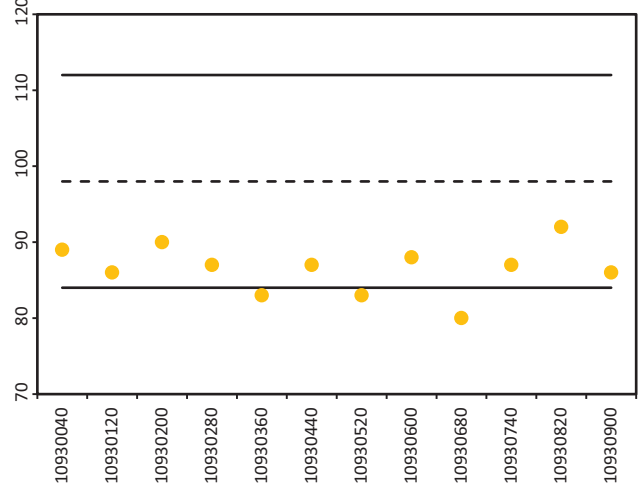
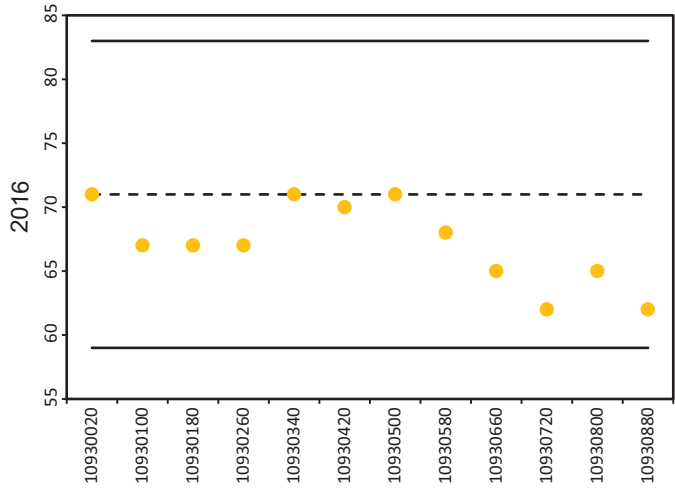
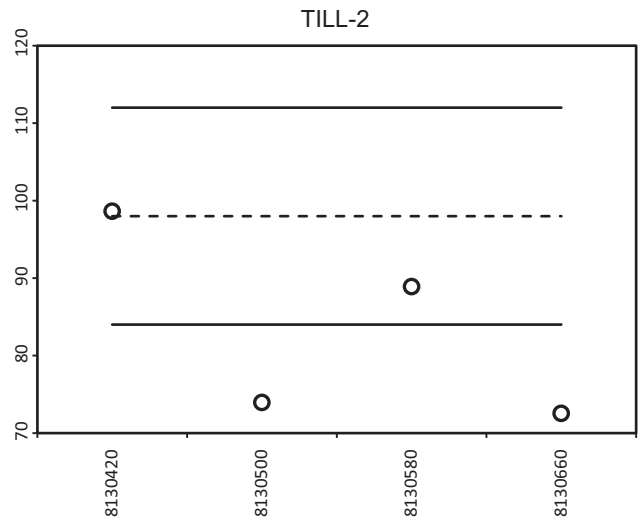
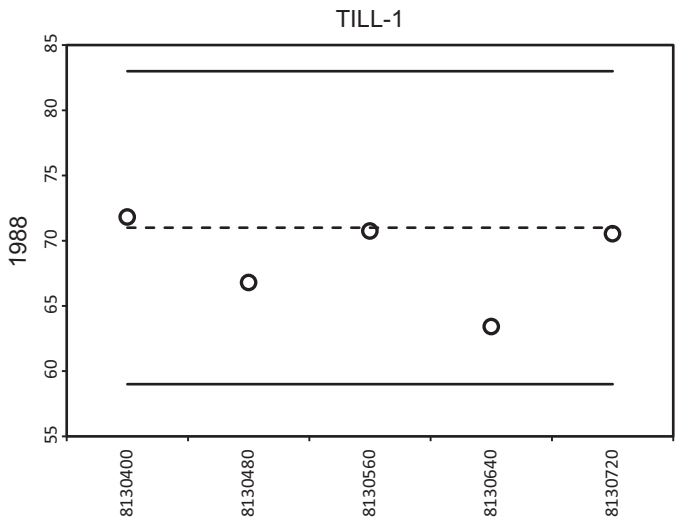
Ce (INAA)



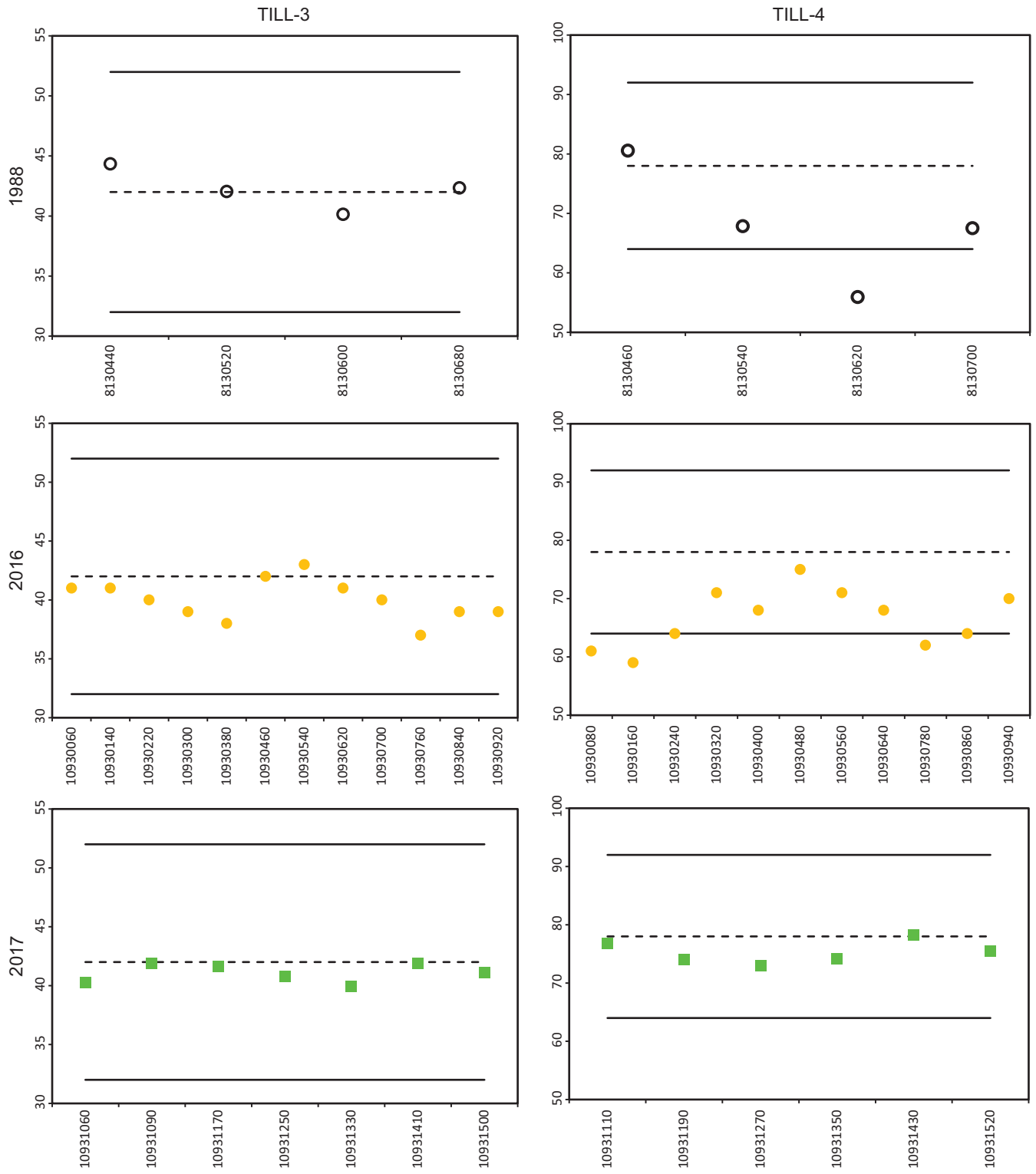
Ce (INAA)



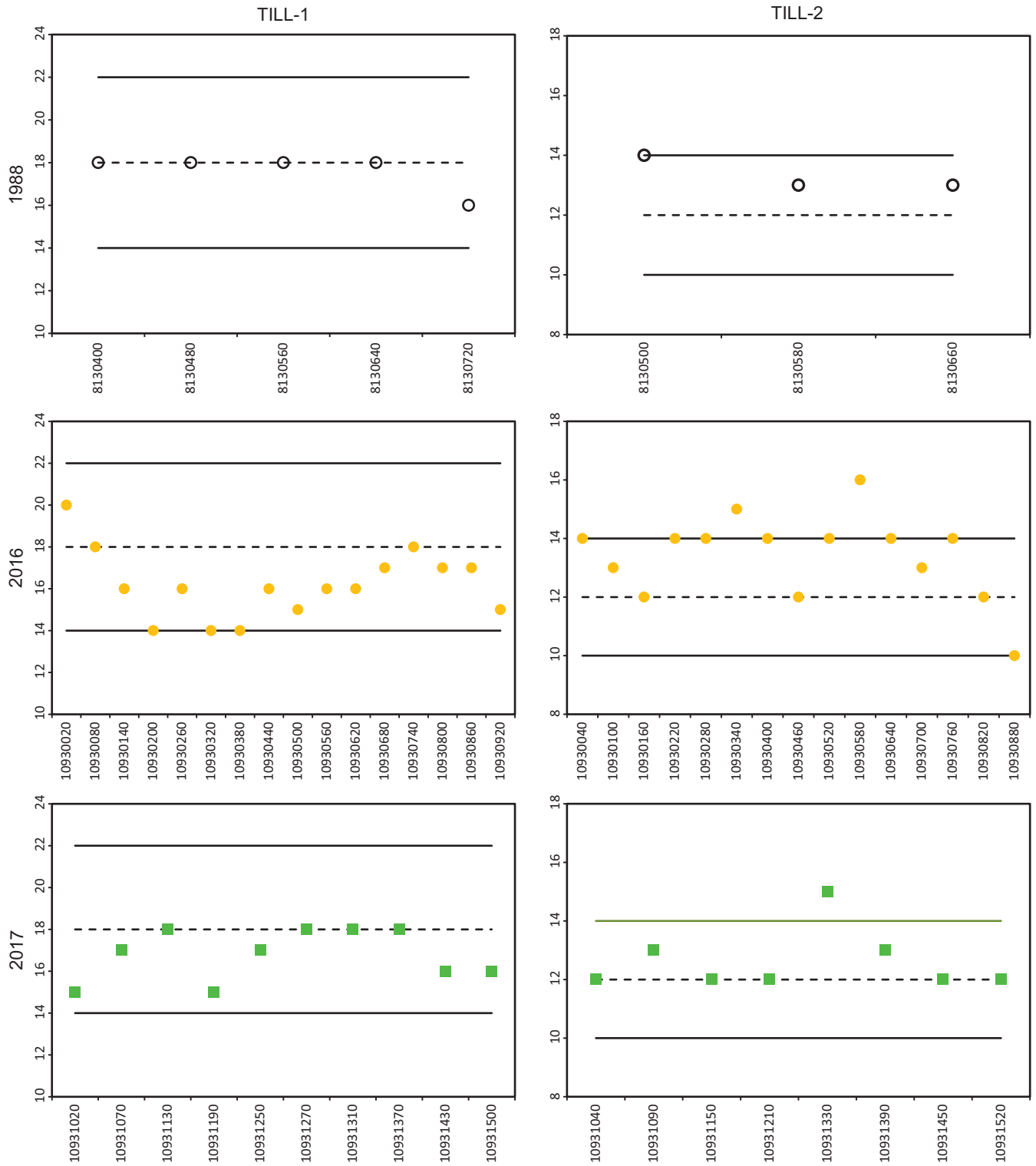
Ce (Multiacid ICP-OES)



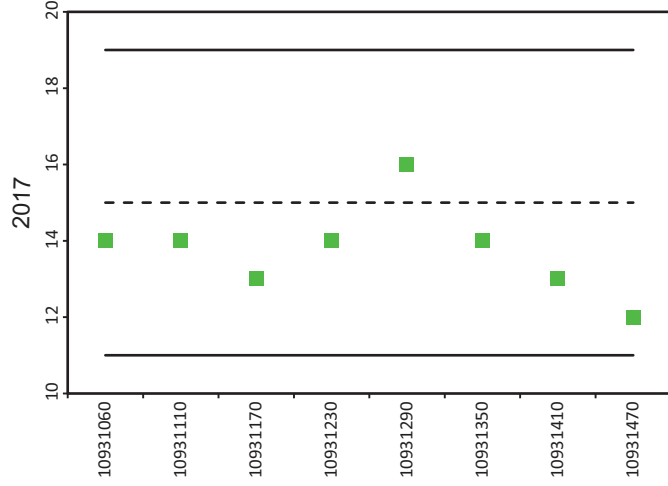
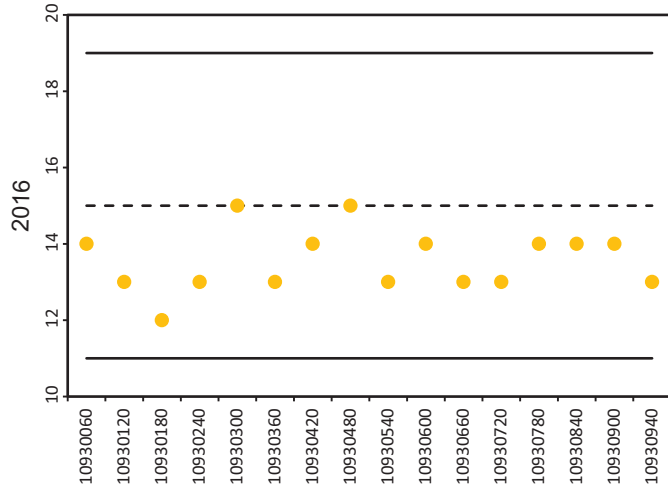
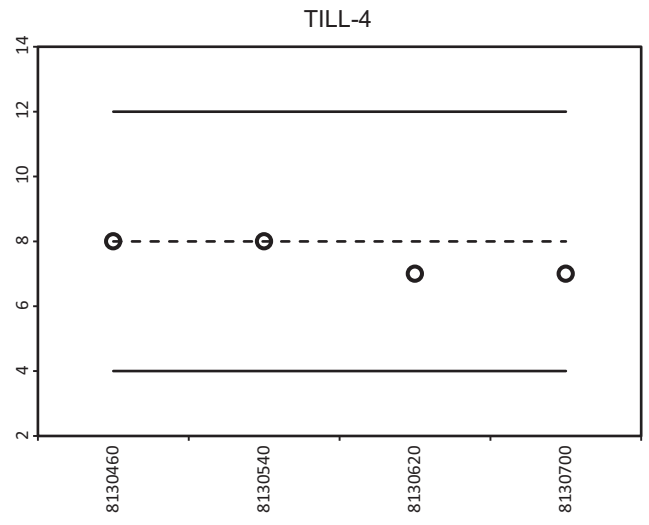
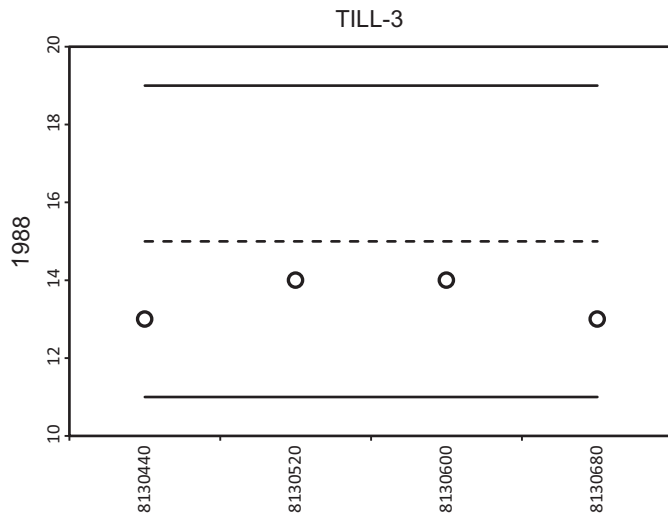
Ce (Multiacid ICP-OES)



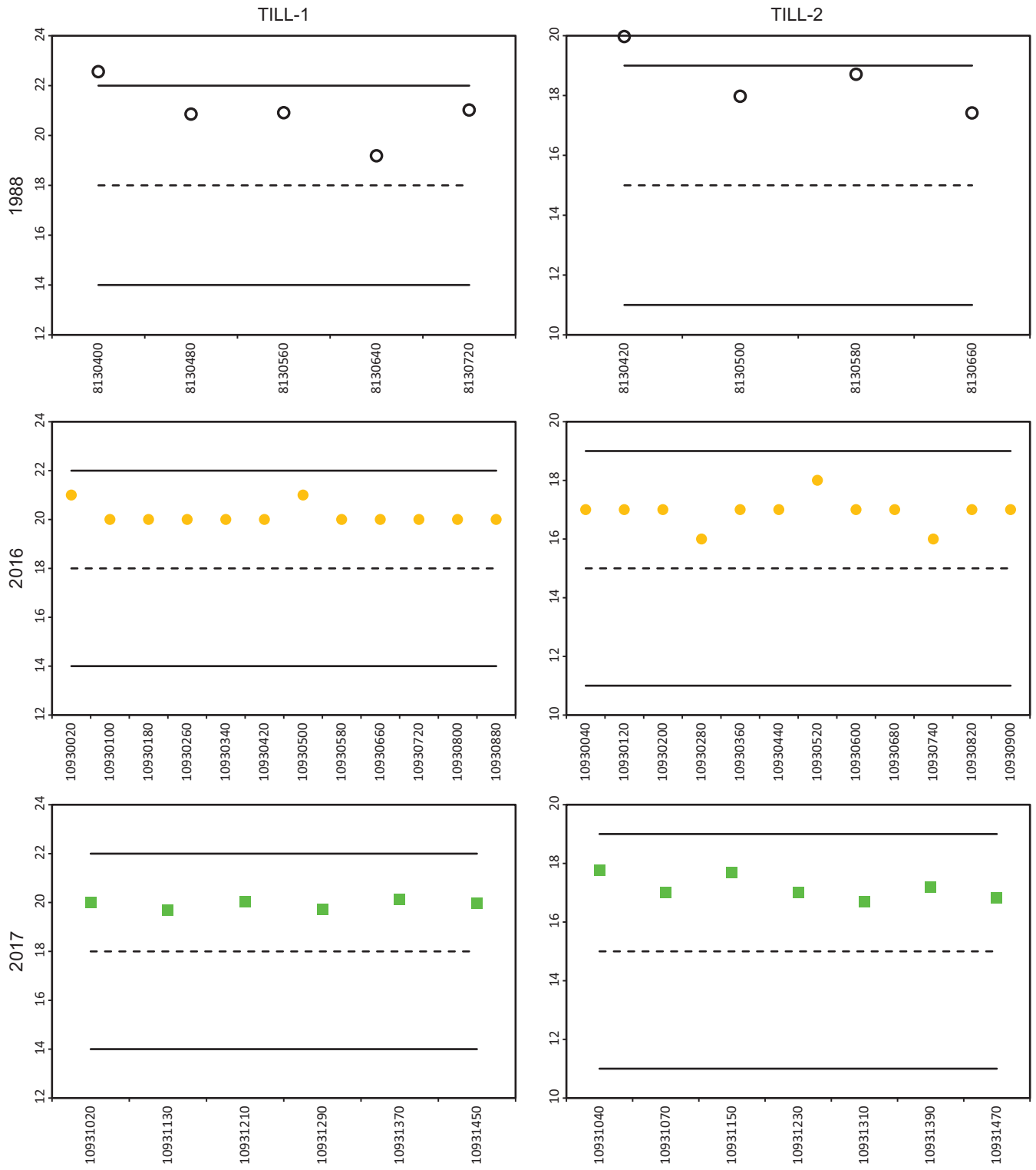
Co (INAA)



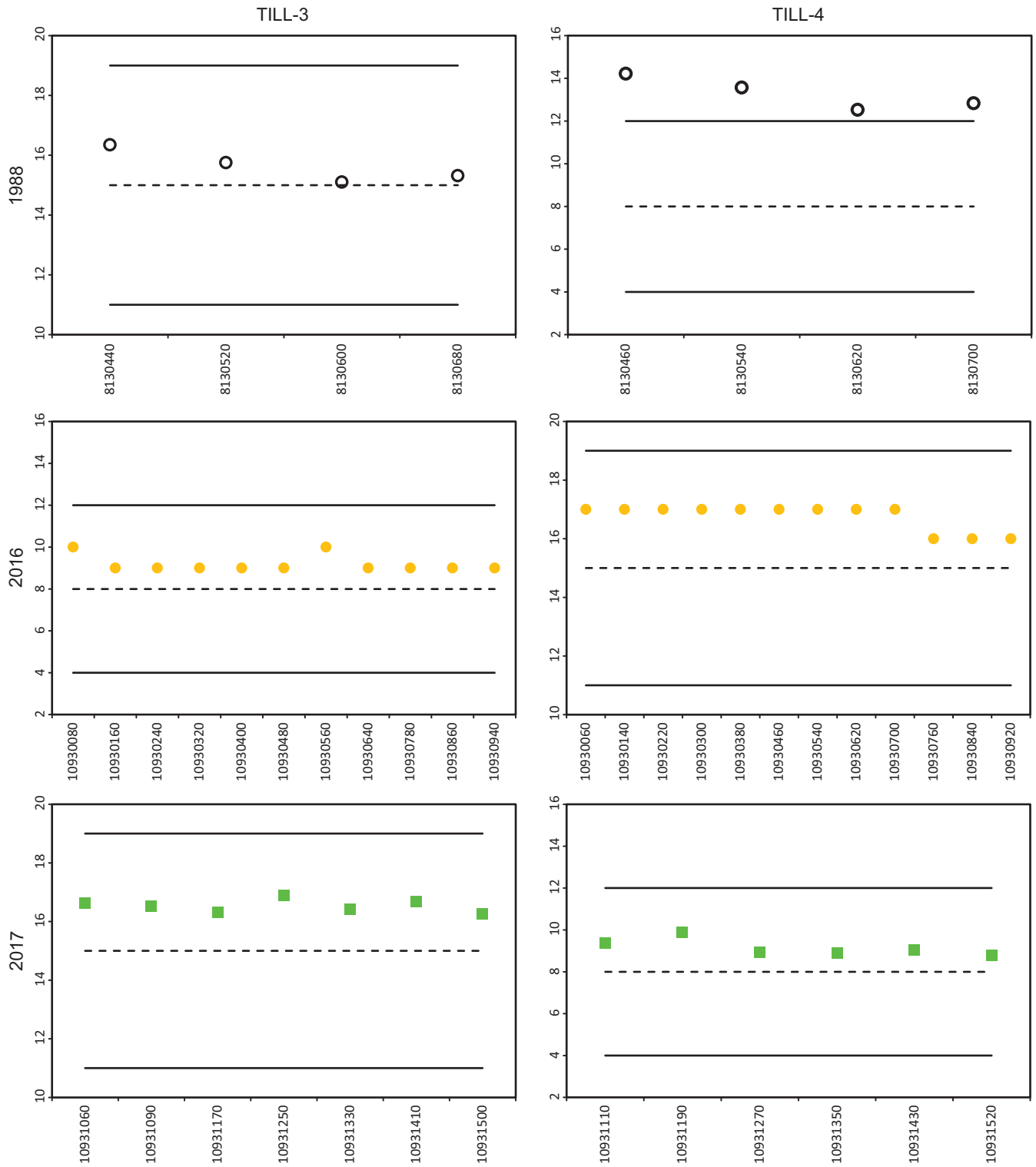
Co (INAA)



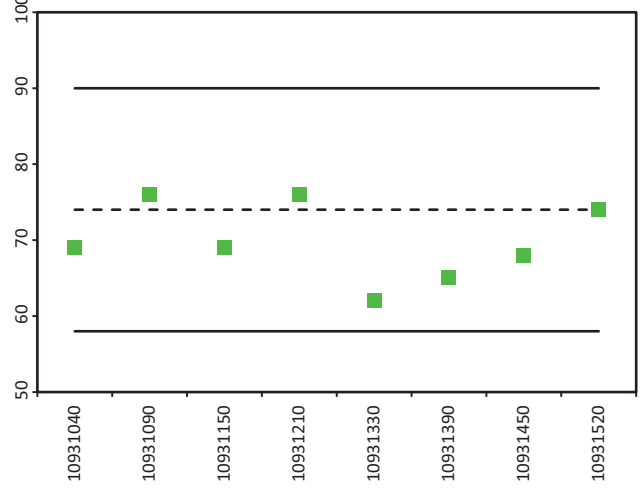
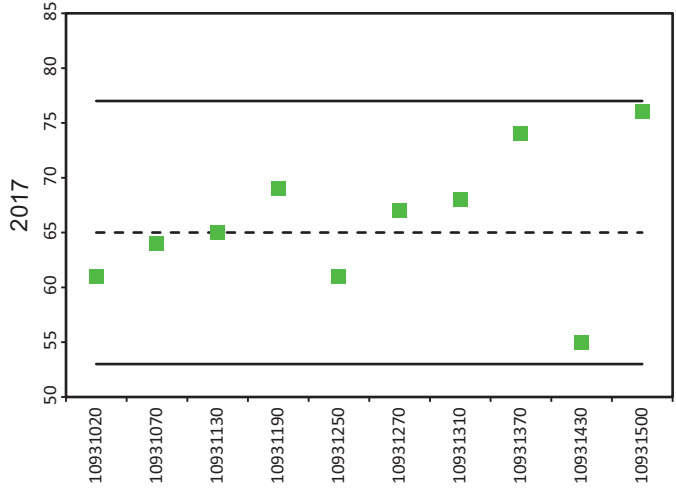
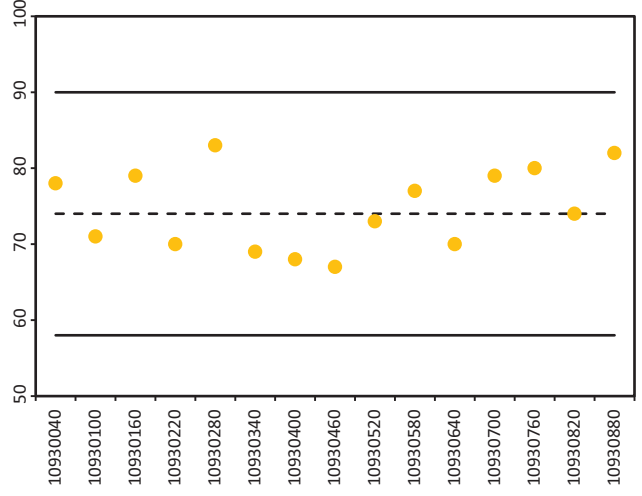
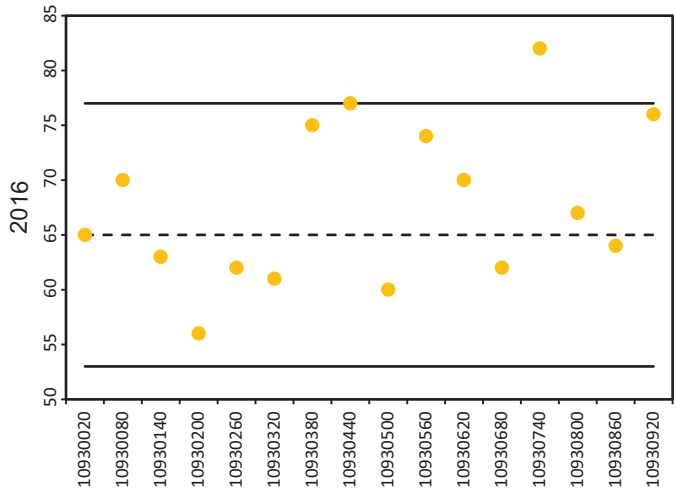
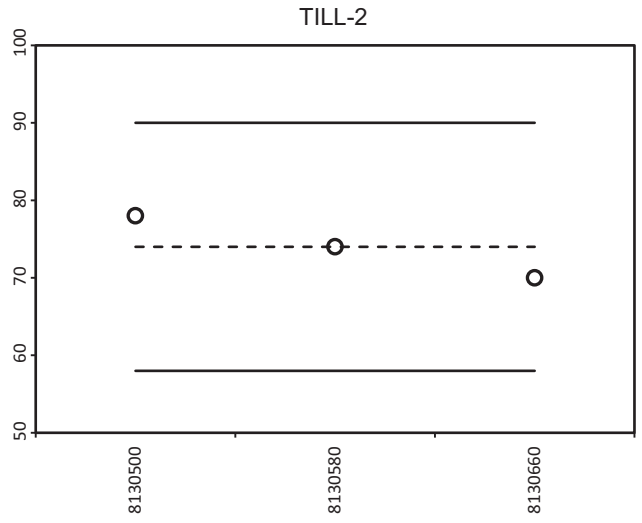
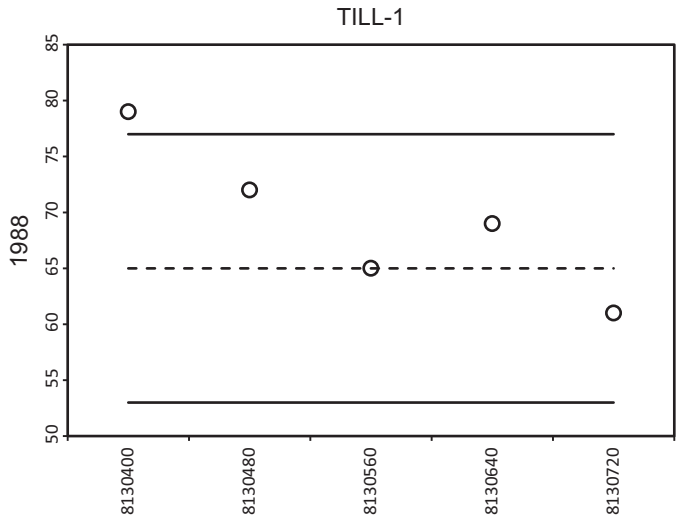
Co (Multiacid ICP-OES)



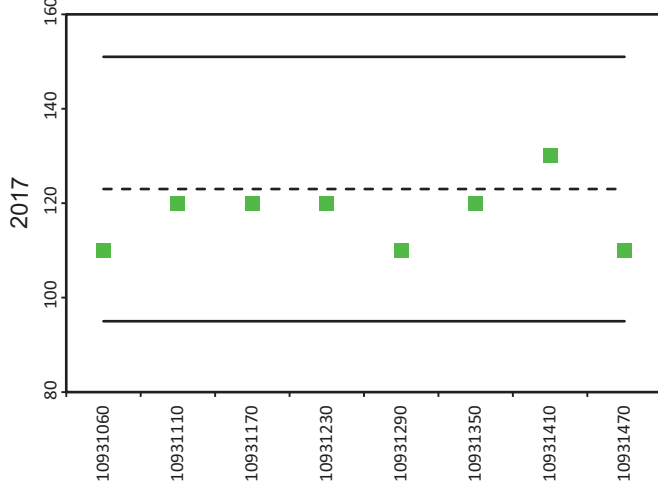
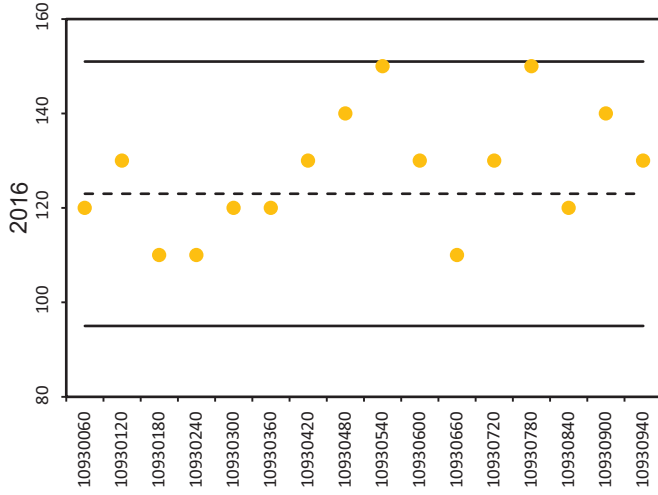
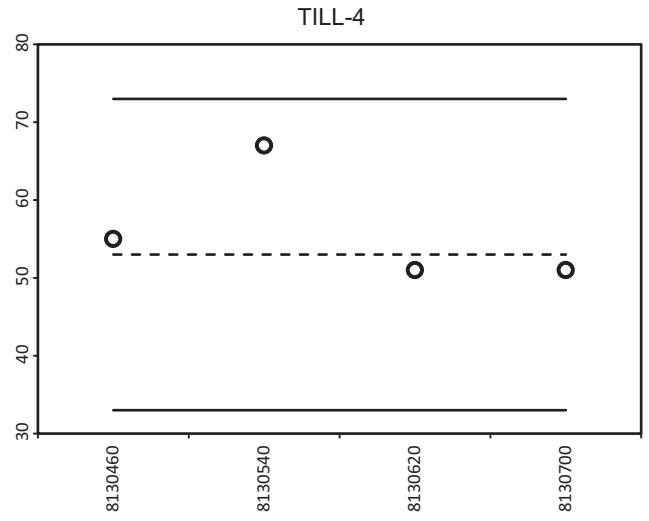
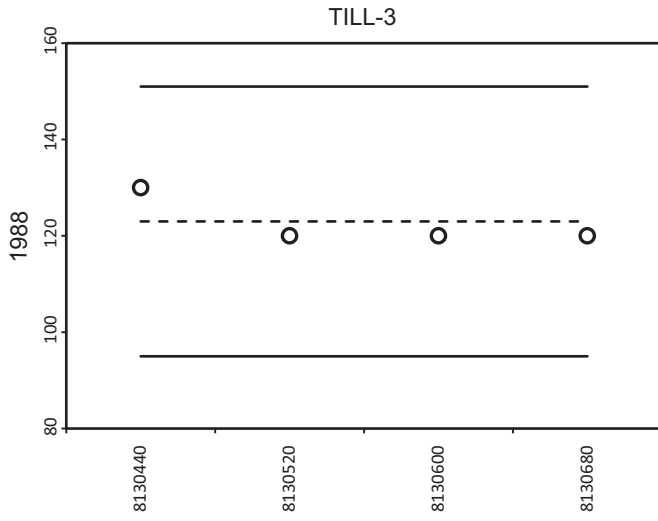
Co (Multiacid ICP-OES)



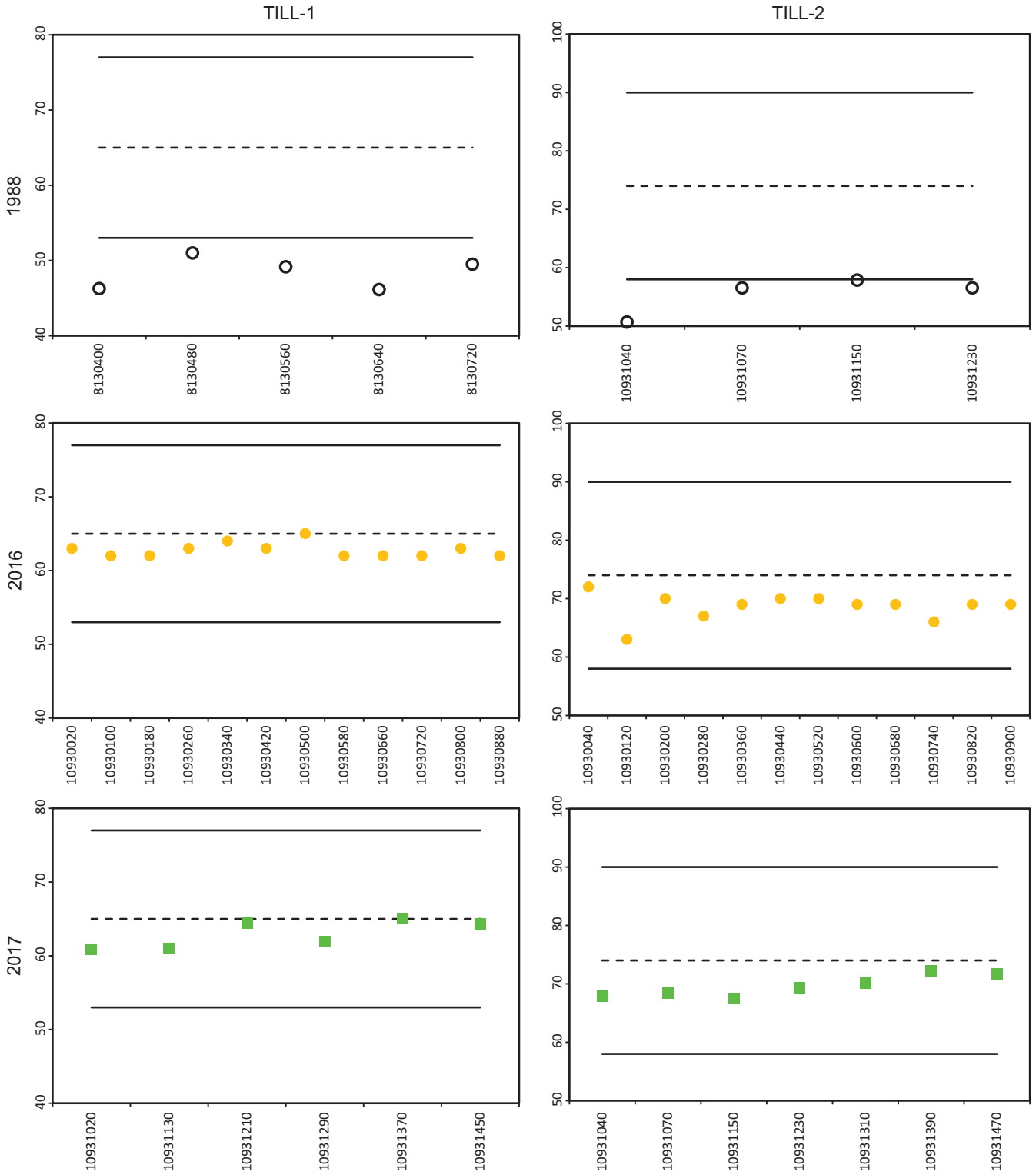
Cr (INAA)



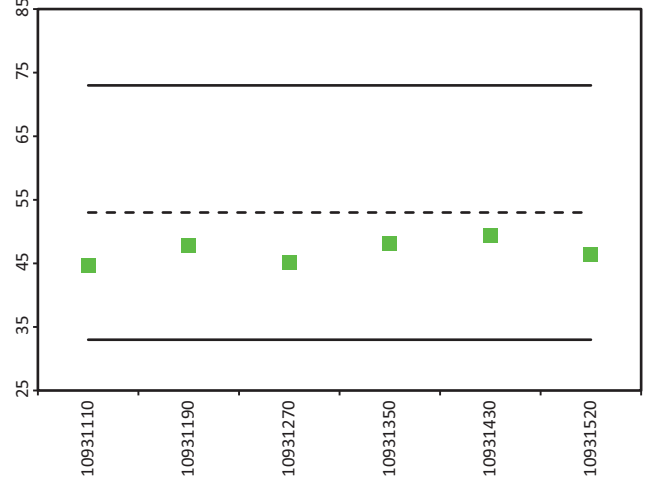
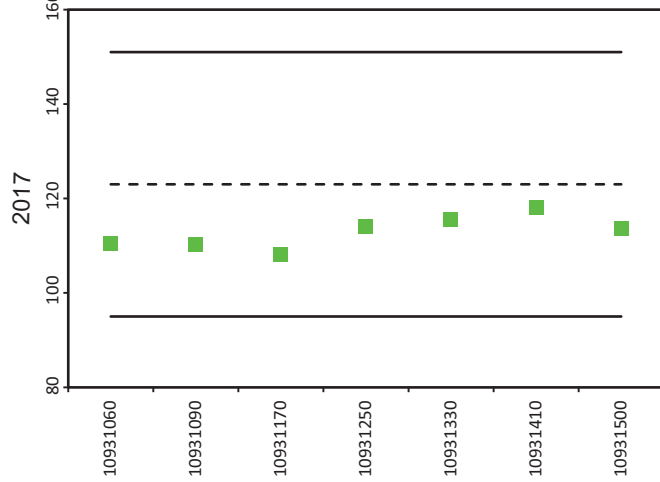
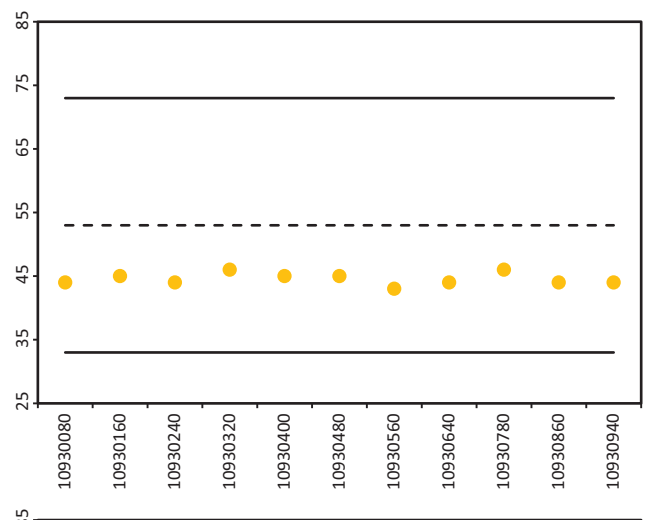
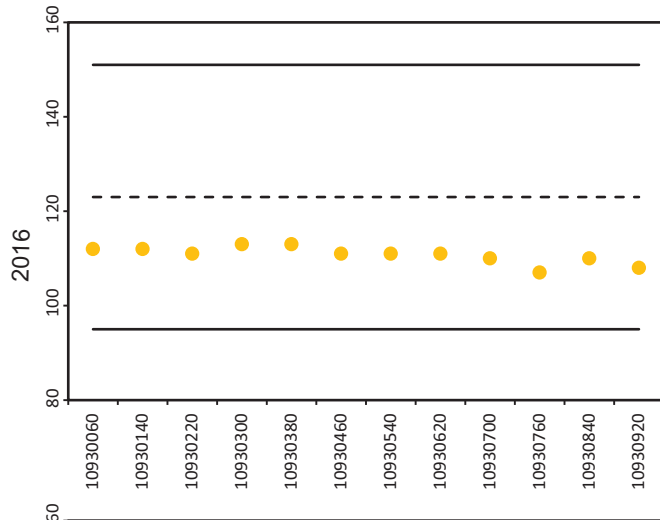
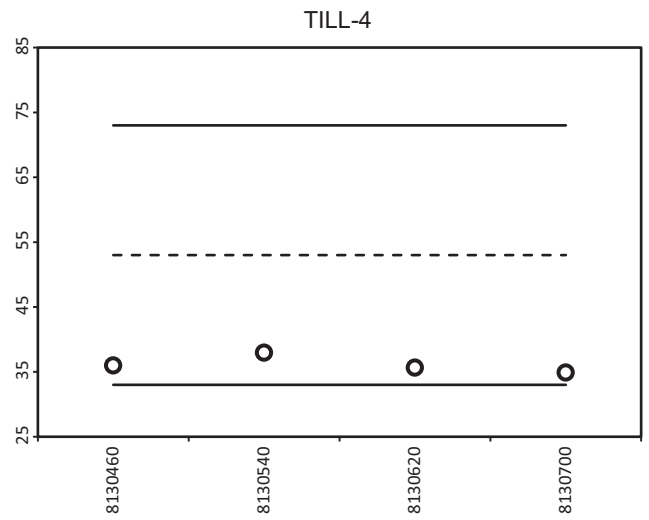
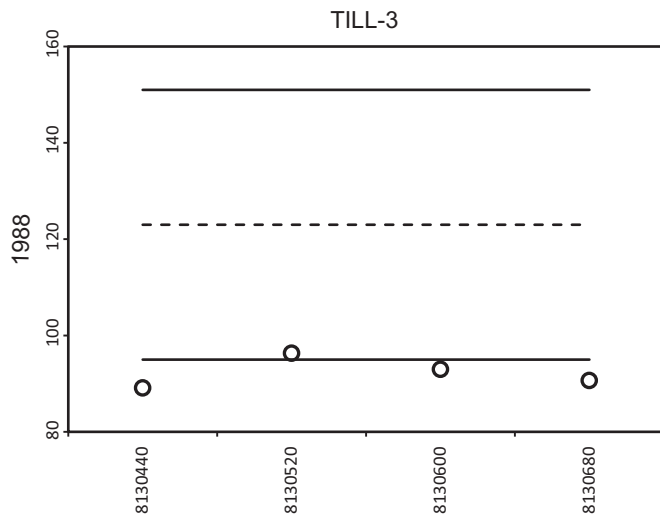
Cr (INAA)



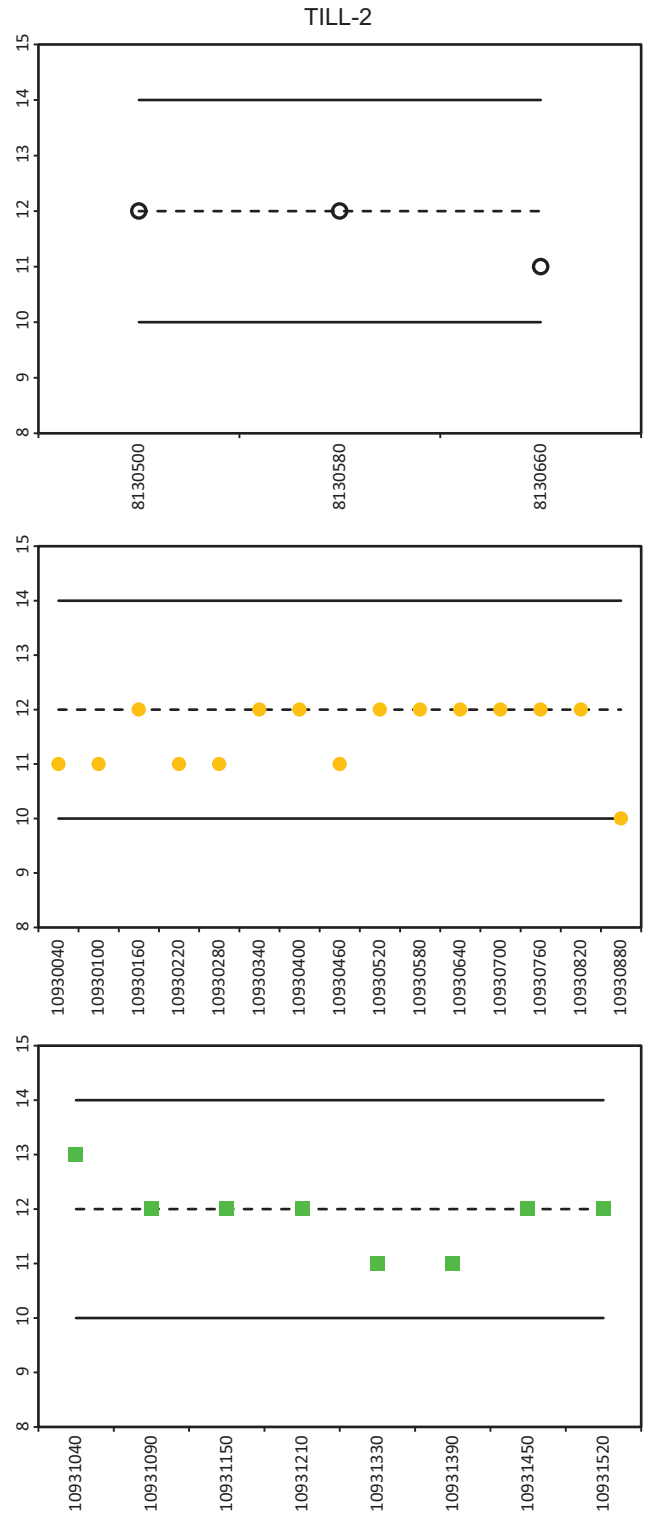
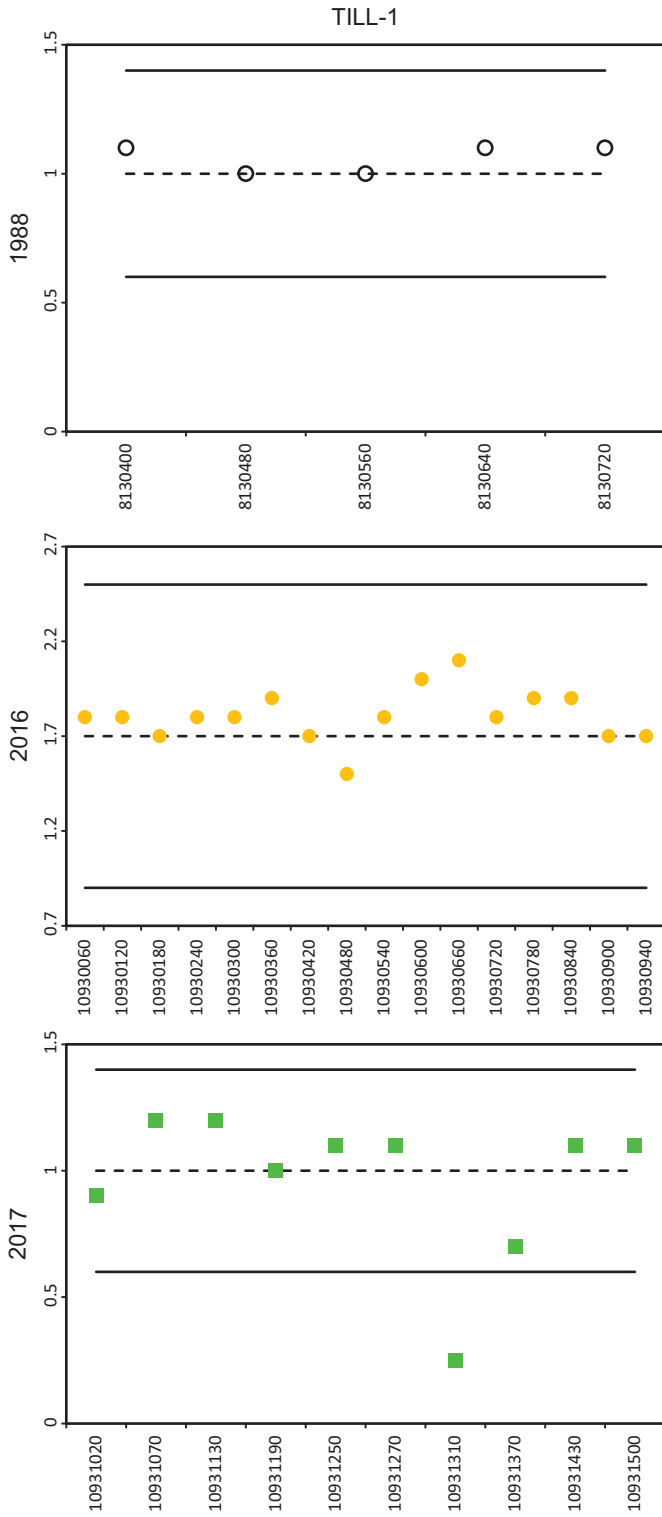
Cr (Multiacid ICP-OES)



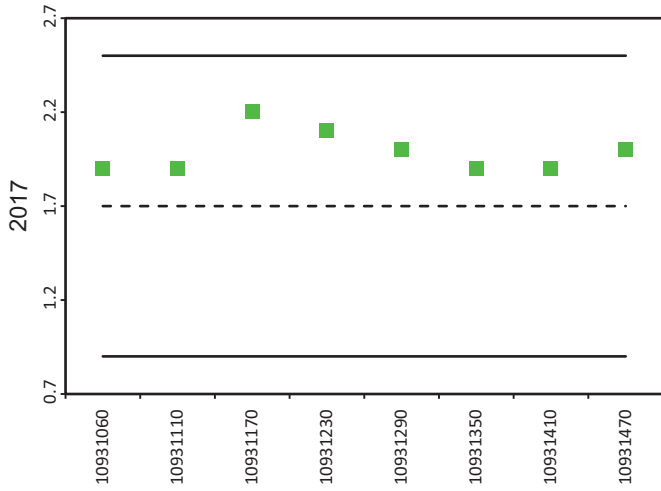
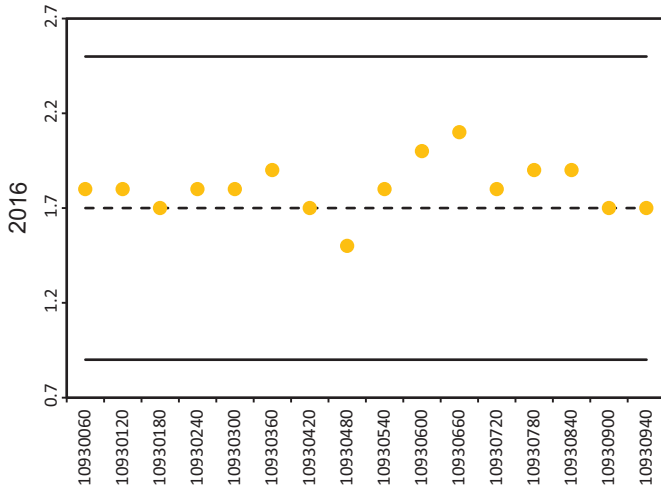
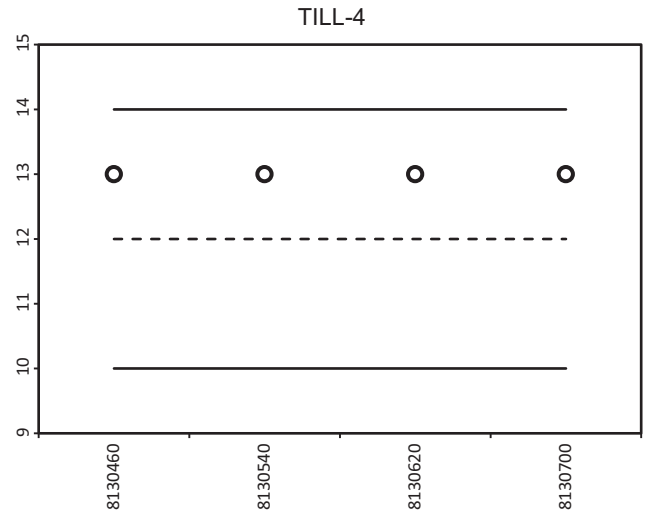
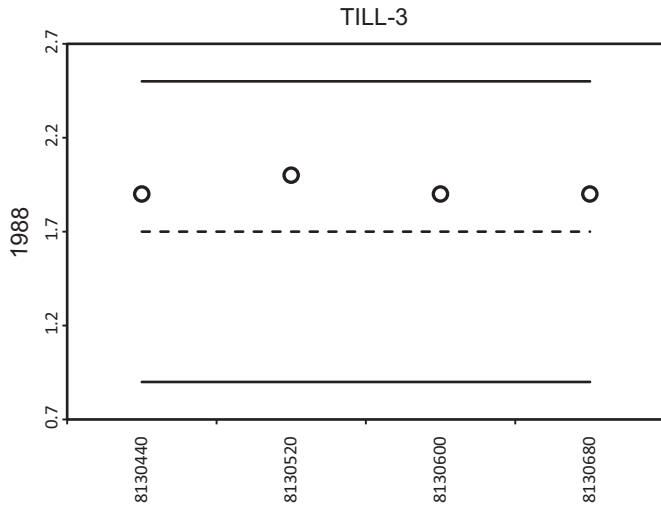
Cr (Multiacid ICP-OES)



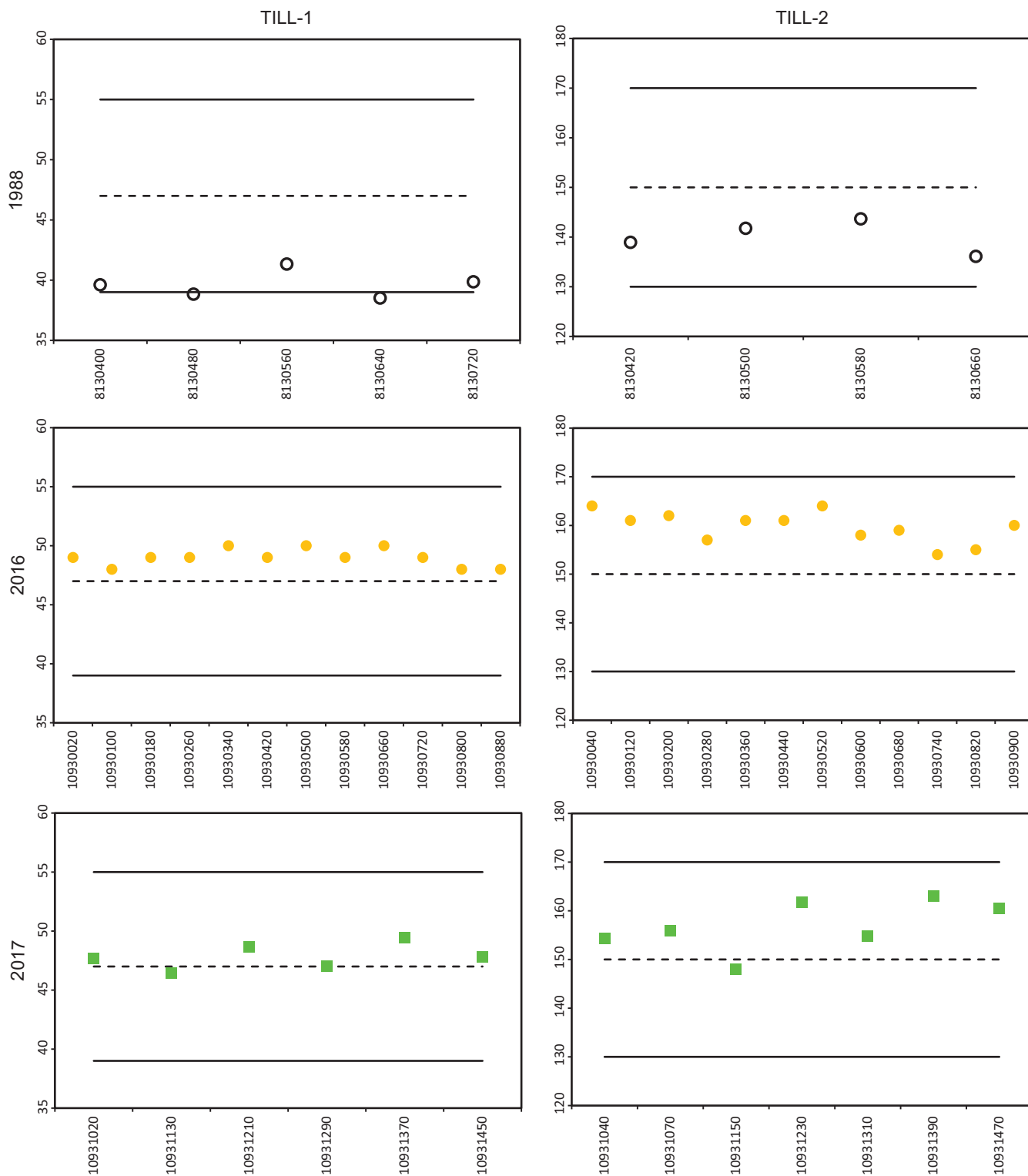
Cs (INAA)



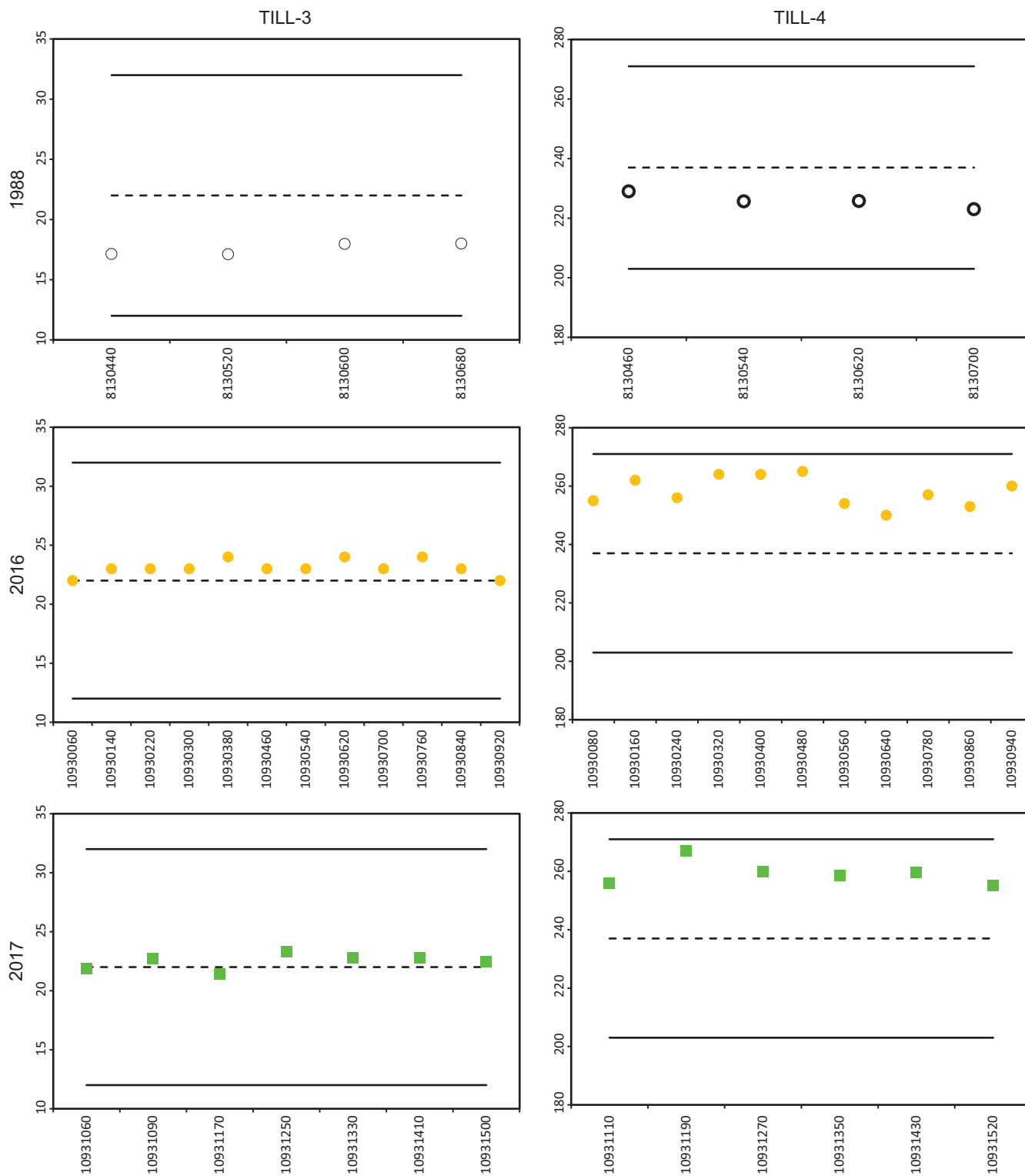
Cs (INAA)



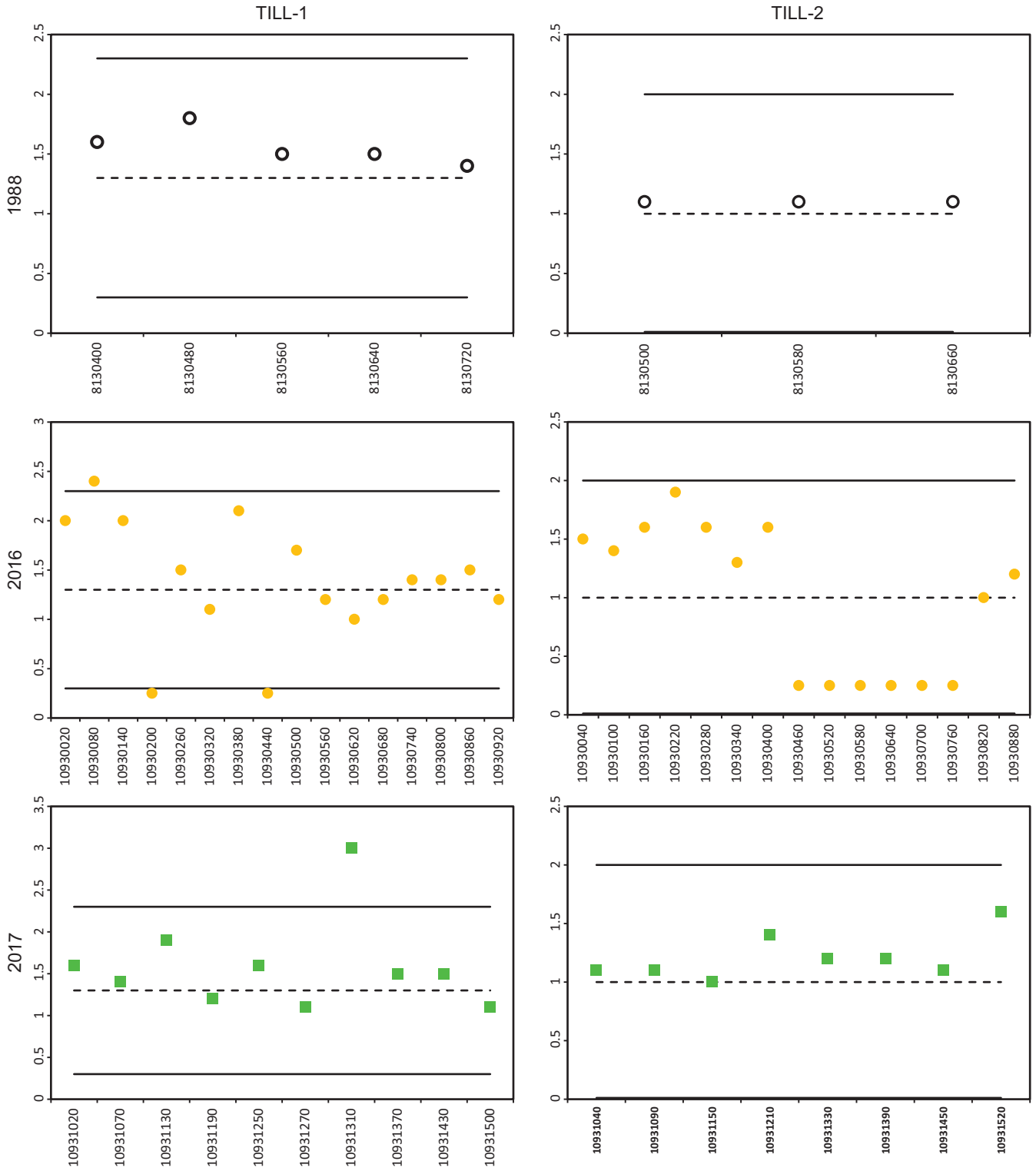
Cu (Multiacid ICP-OES)



Cu (Multiacid ICP-OES)

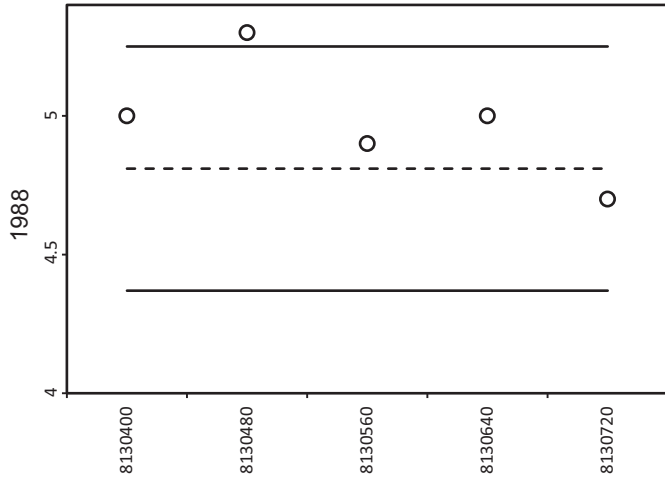


Eu (INAA)

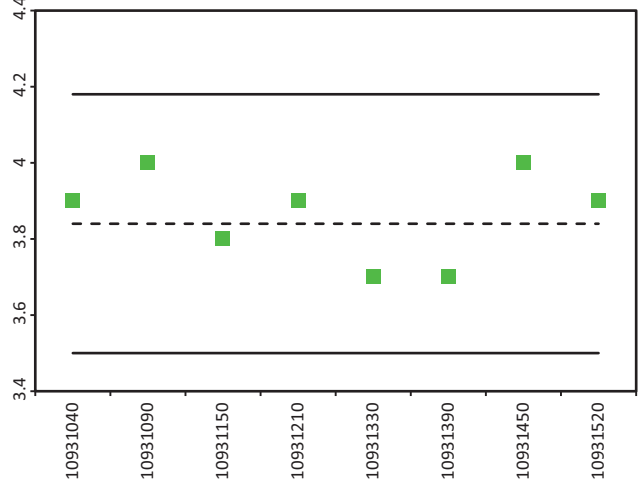
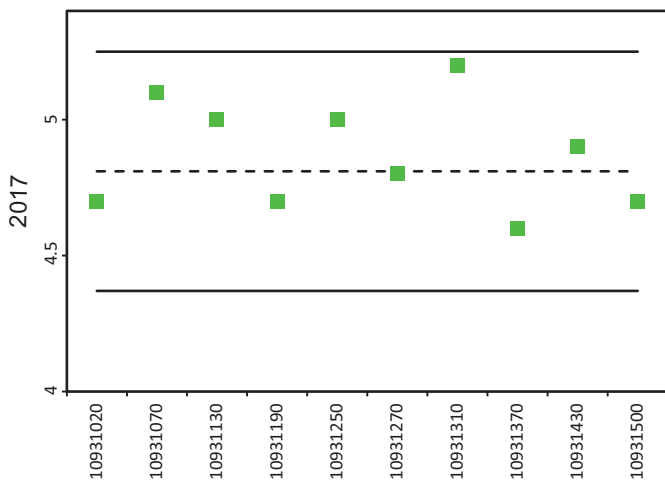
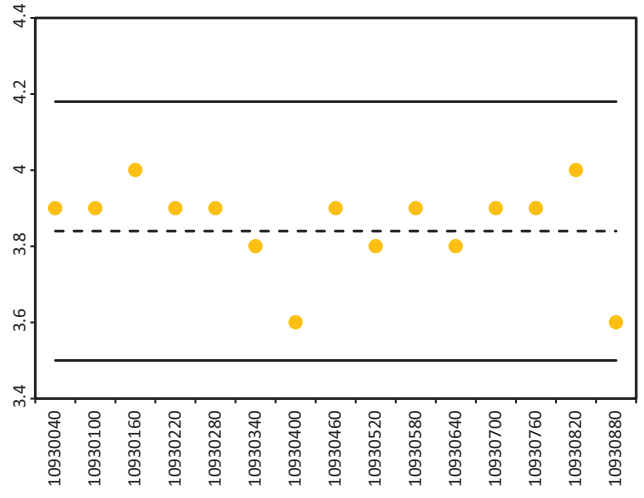
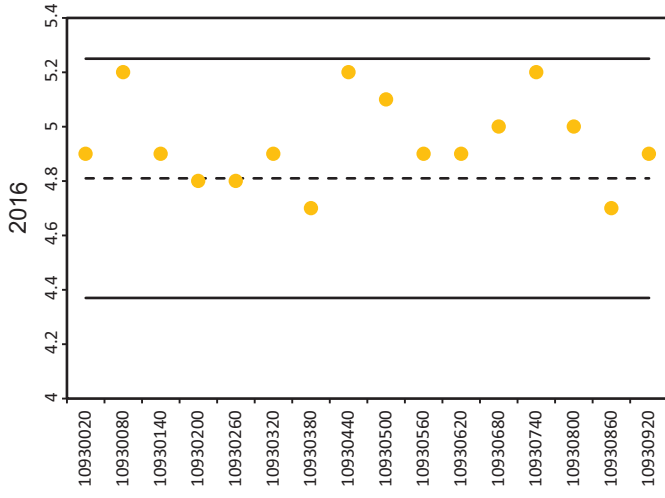
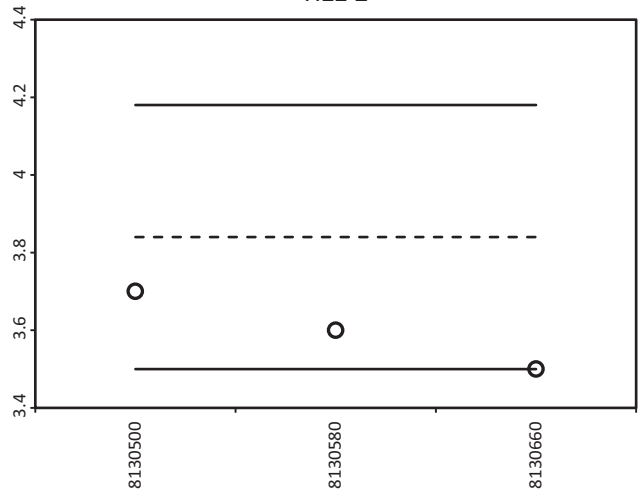


Fe (INAA)

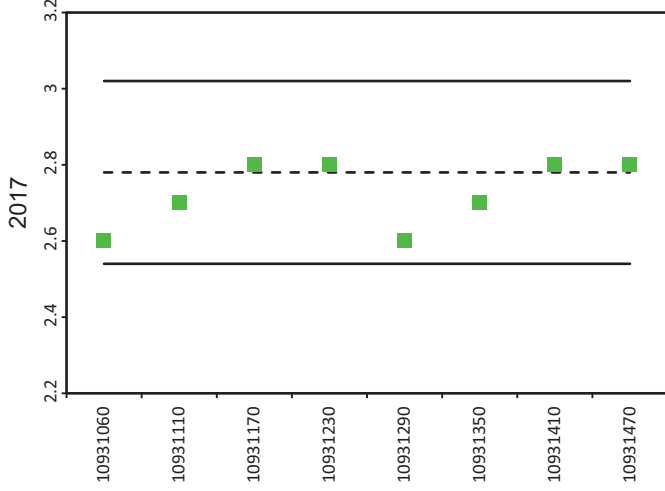
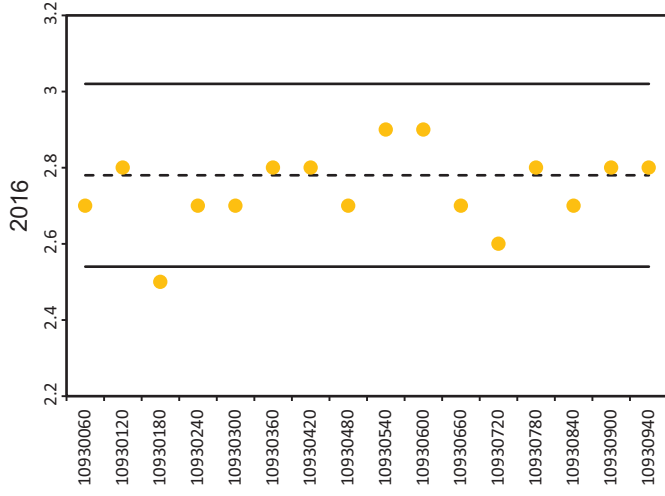
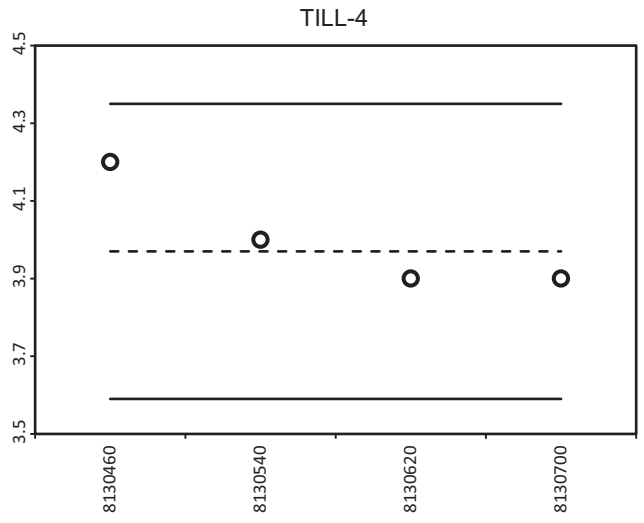
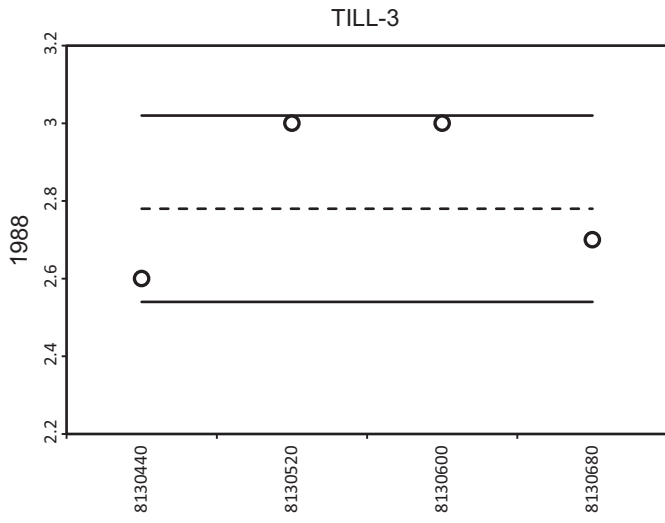
TILL-1



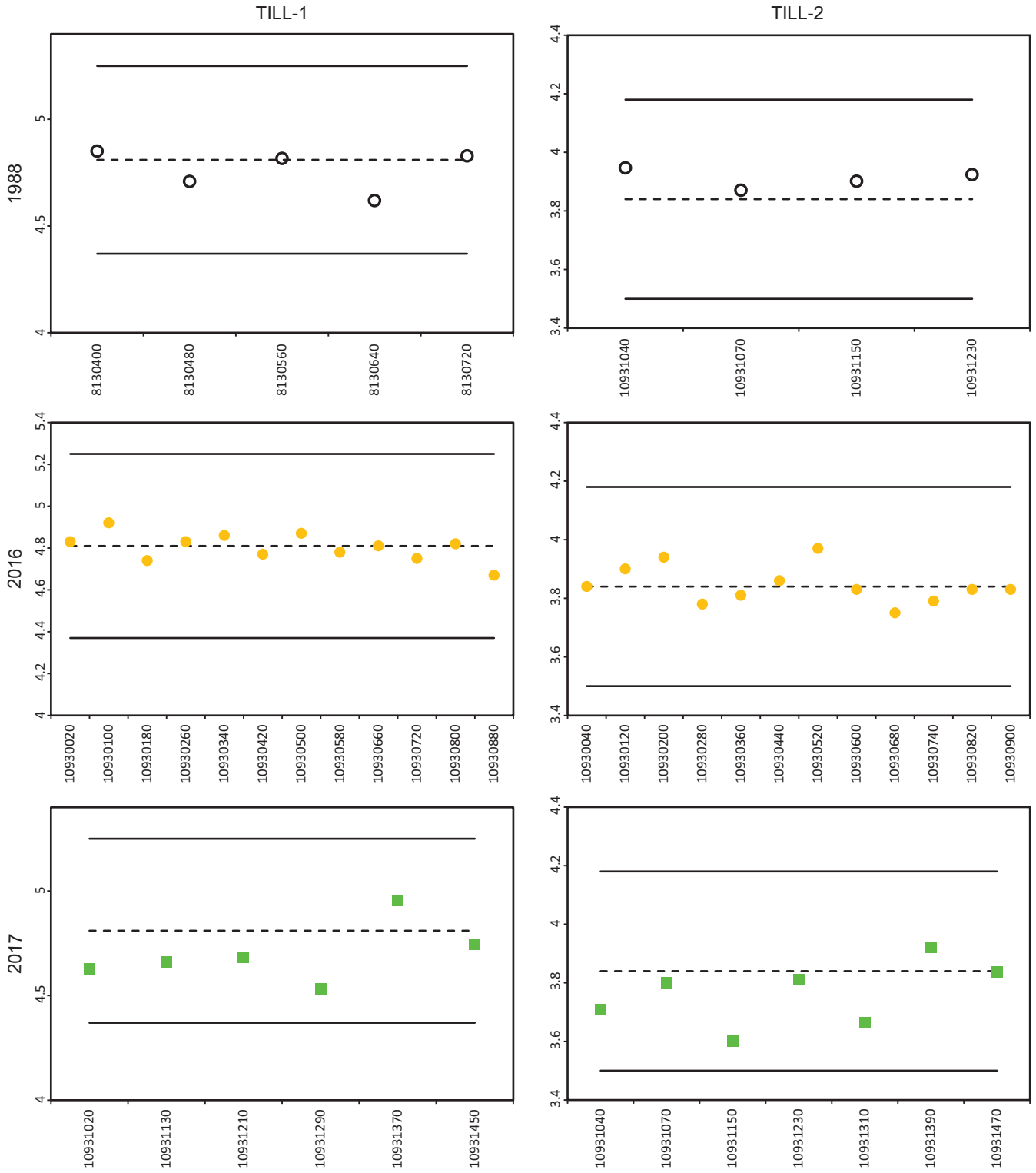
TILL-2



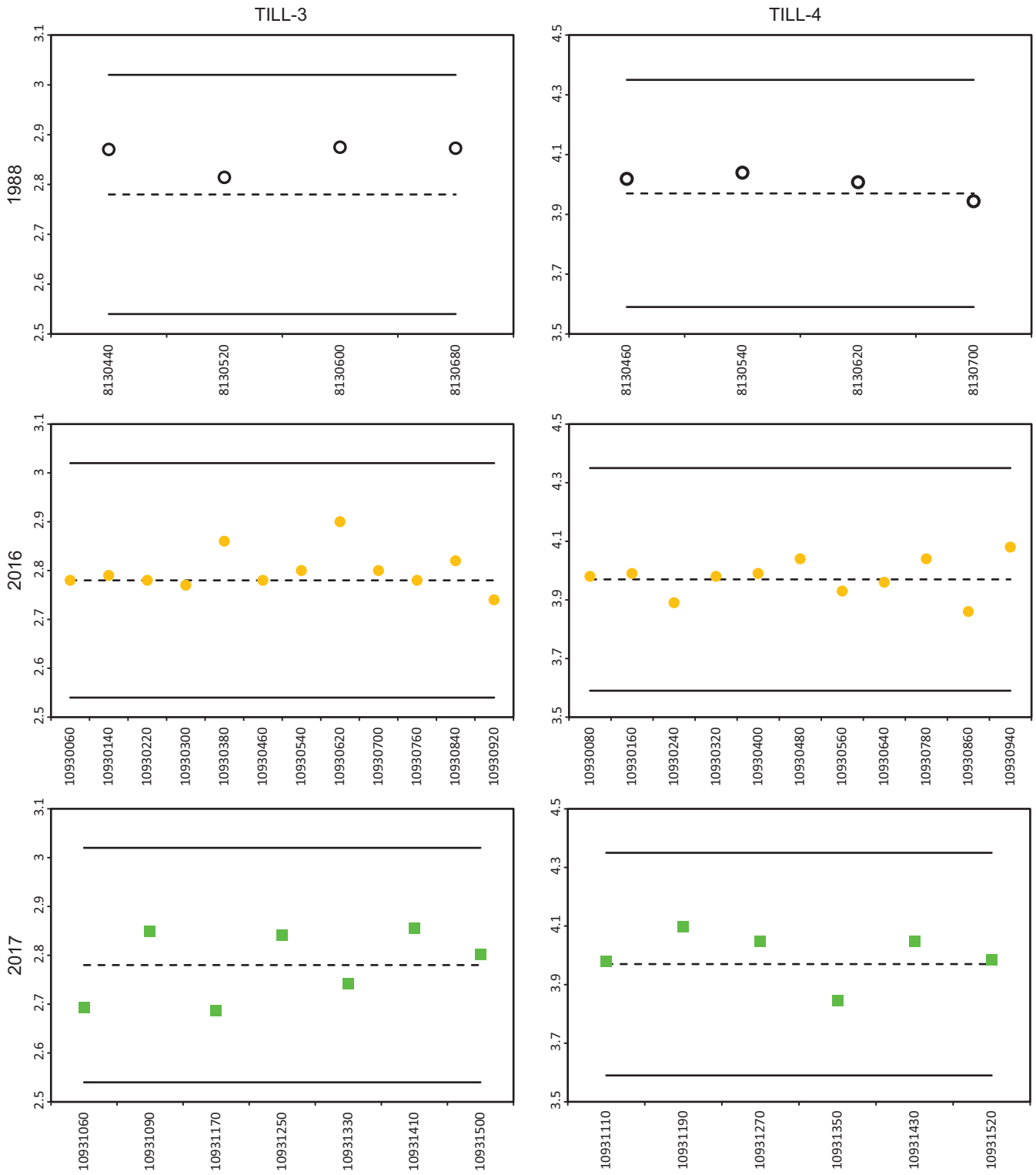
Fe (INAA)



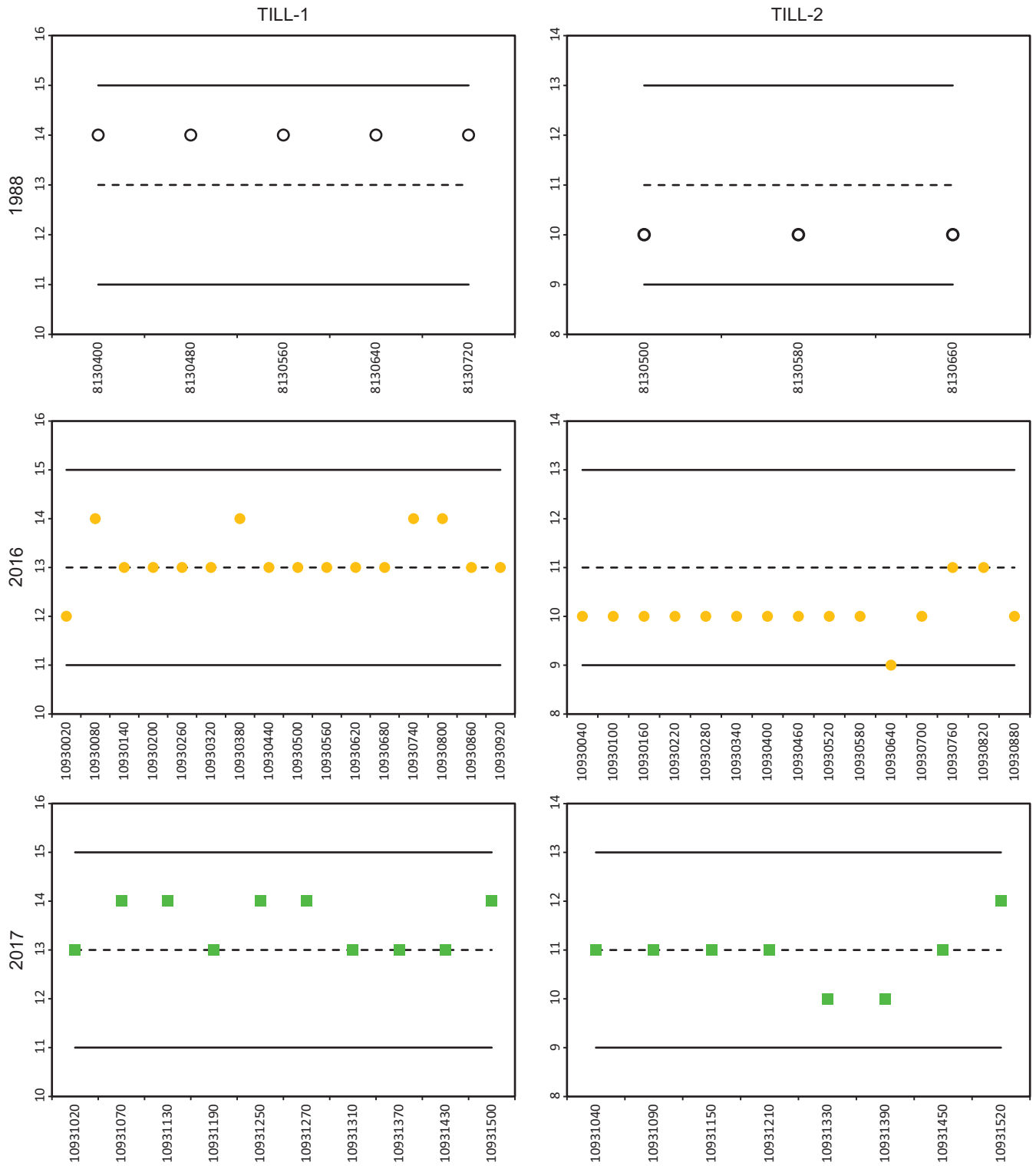
Fe (Multiacid ICP-OES)



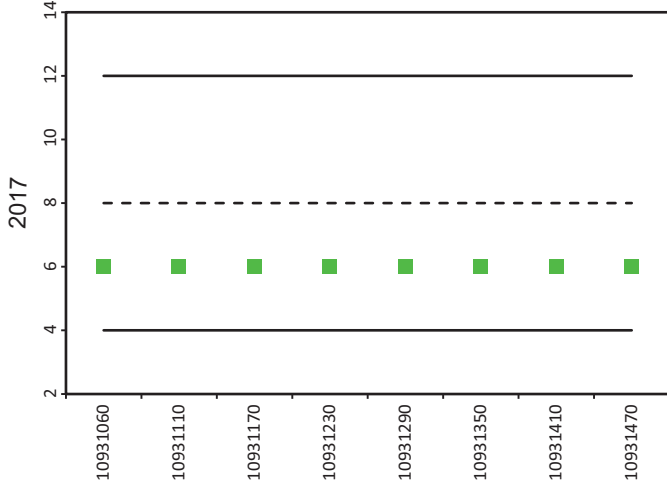
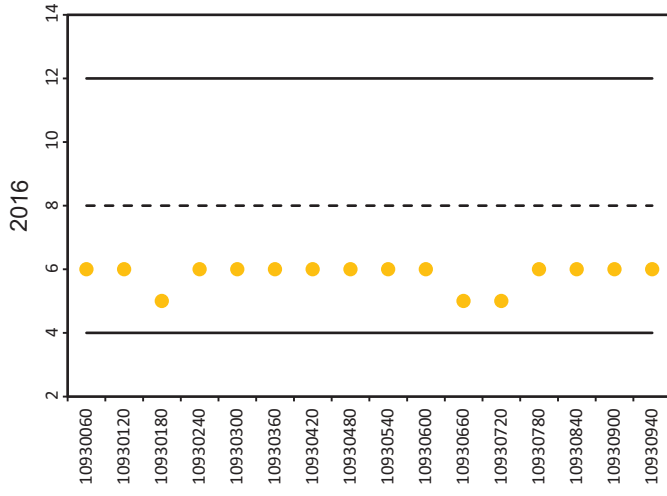
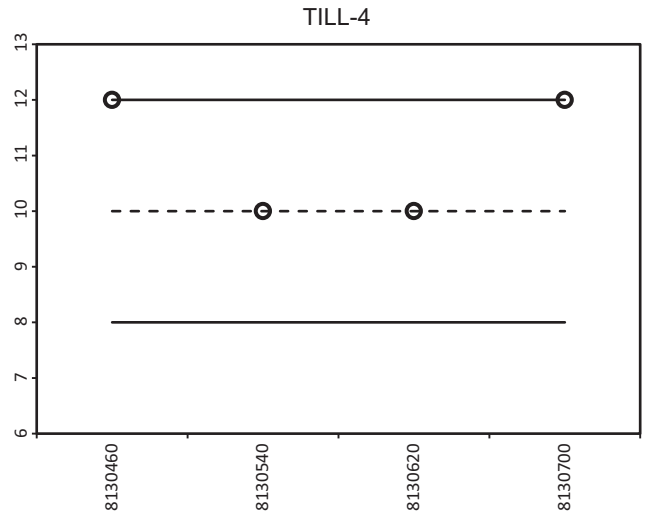
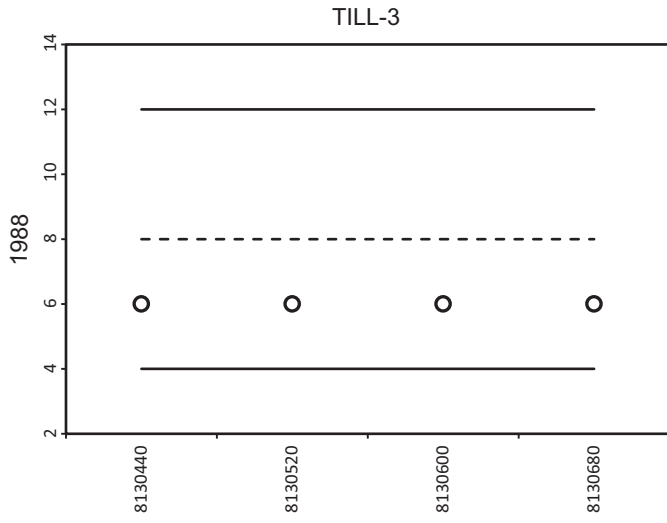
Fe (Multiacid ICP-OES)



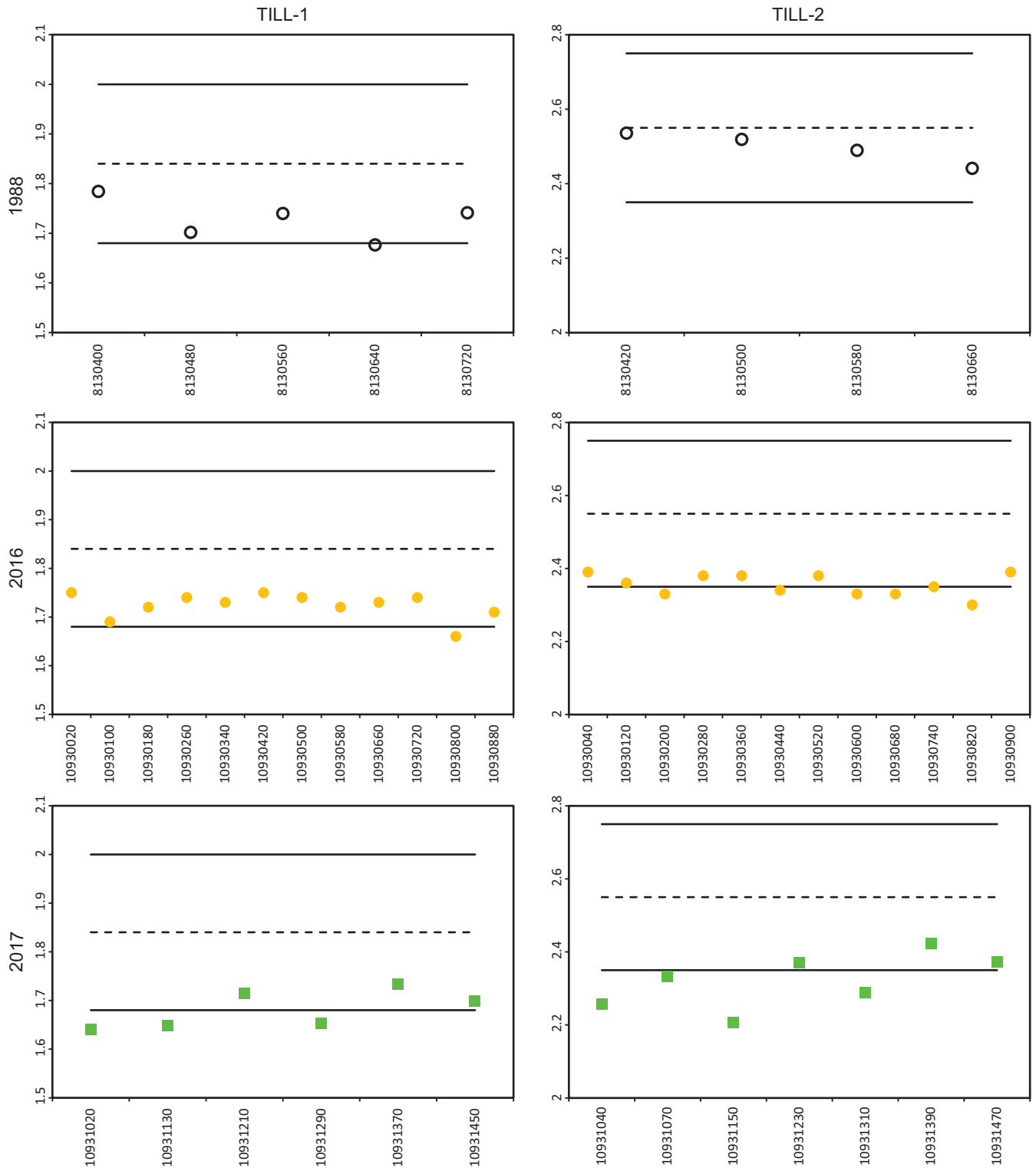
Hf (INAA)



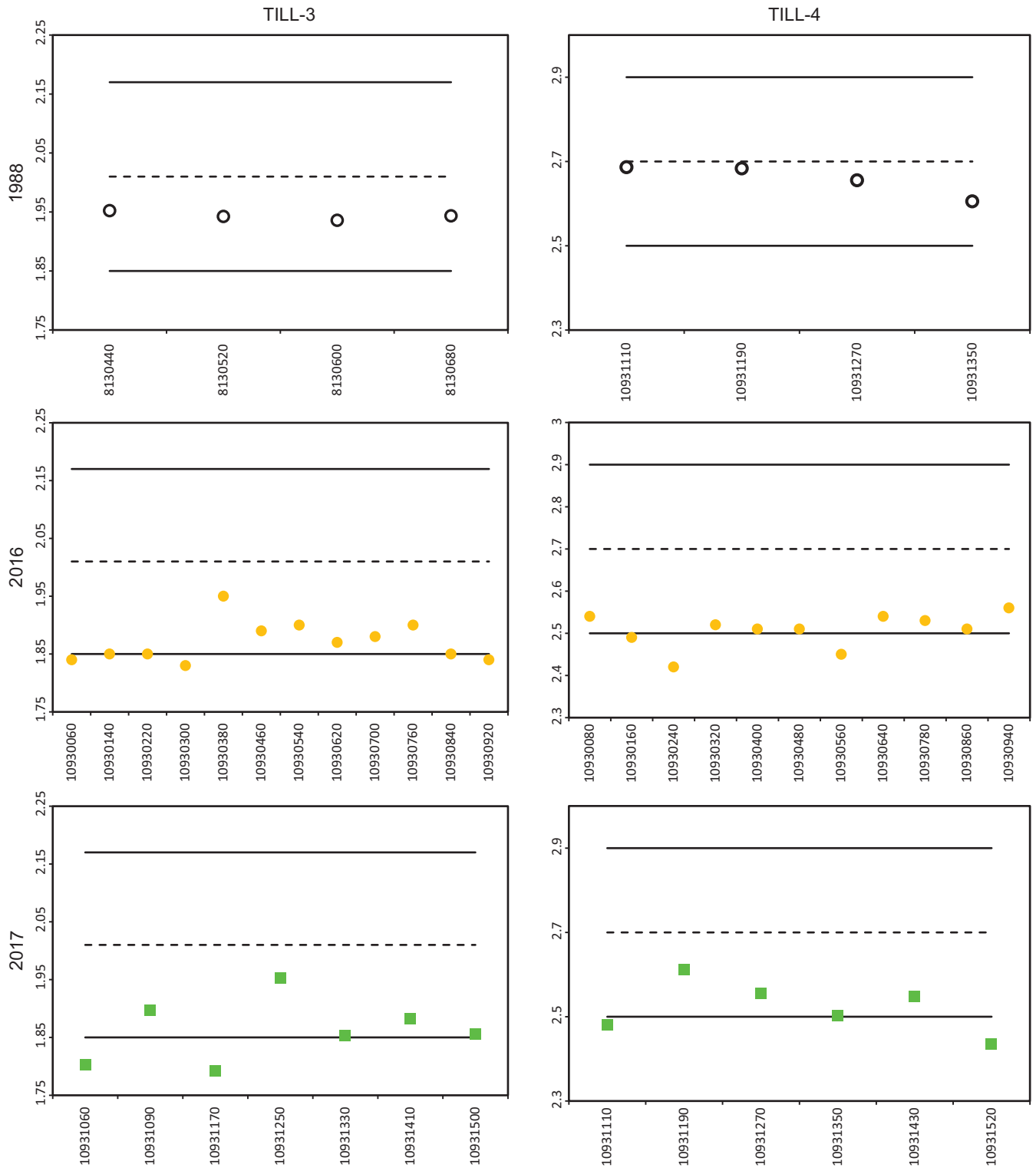
Hf (INAA)



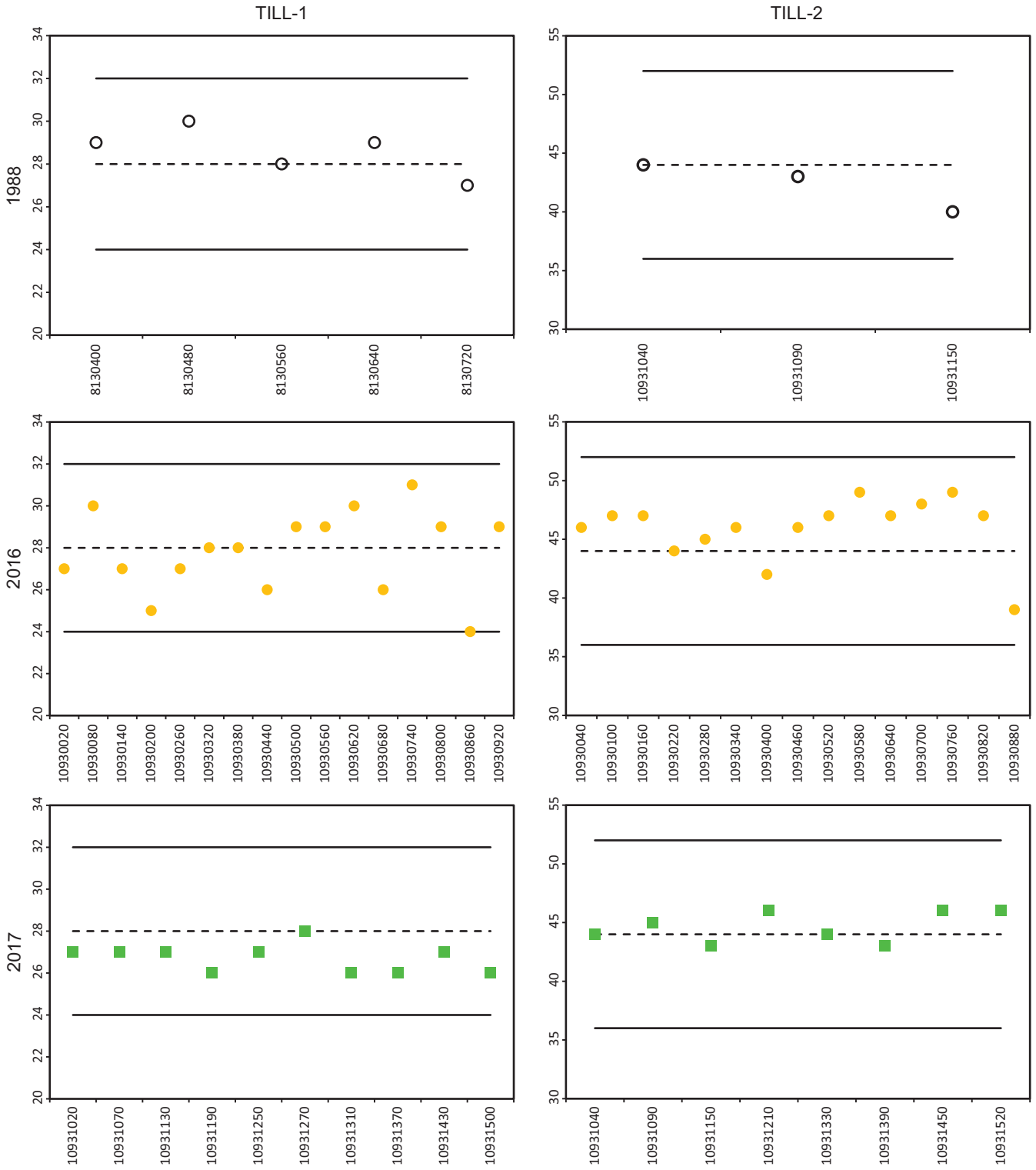
K (Multiacid ICP-OES)



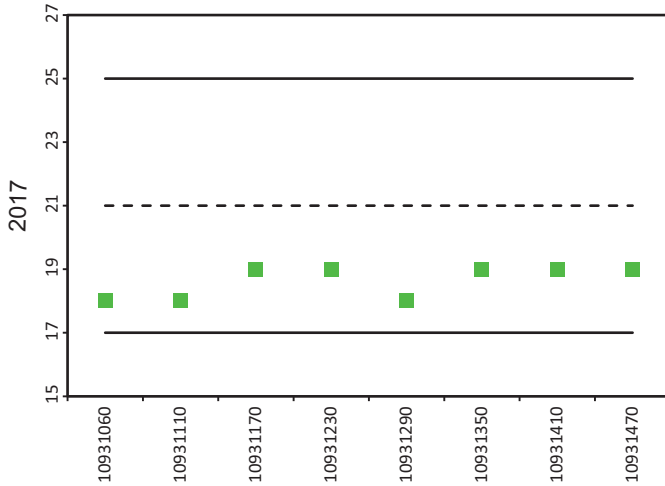
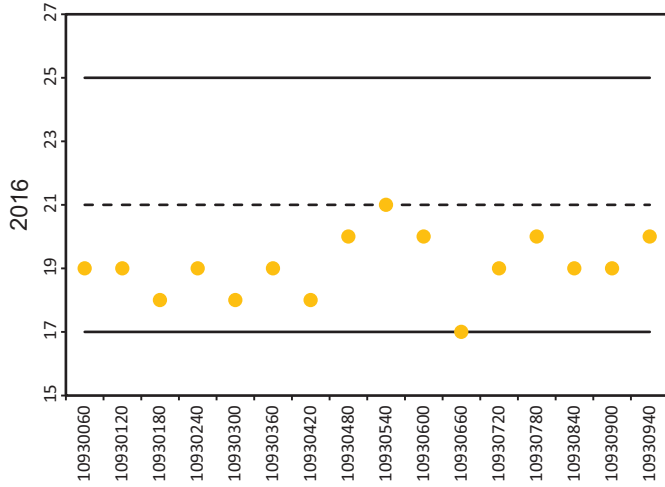
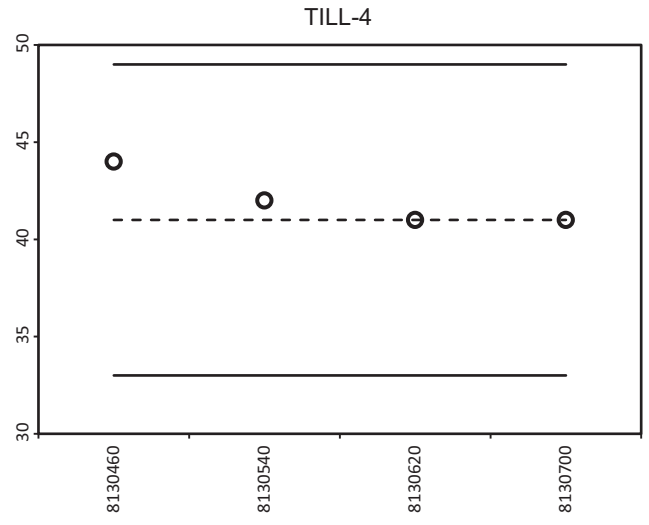
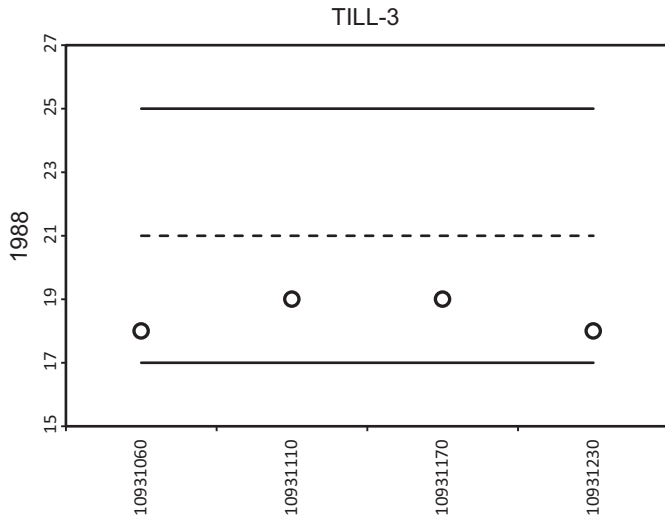
K (Multiacid ICP-OES)



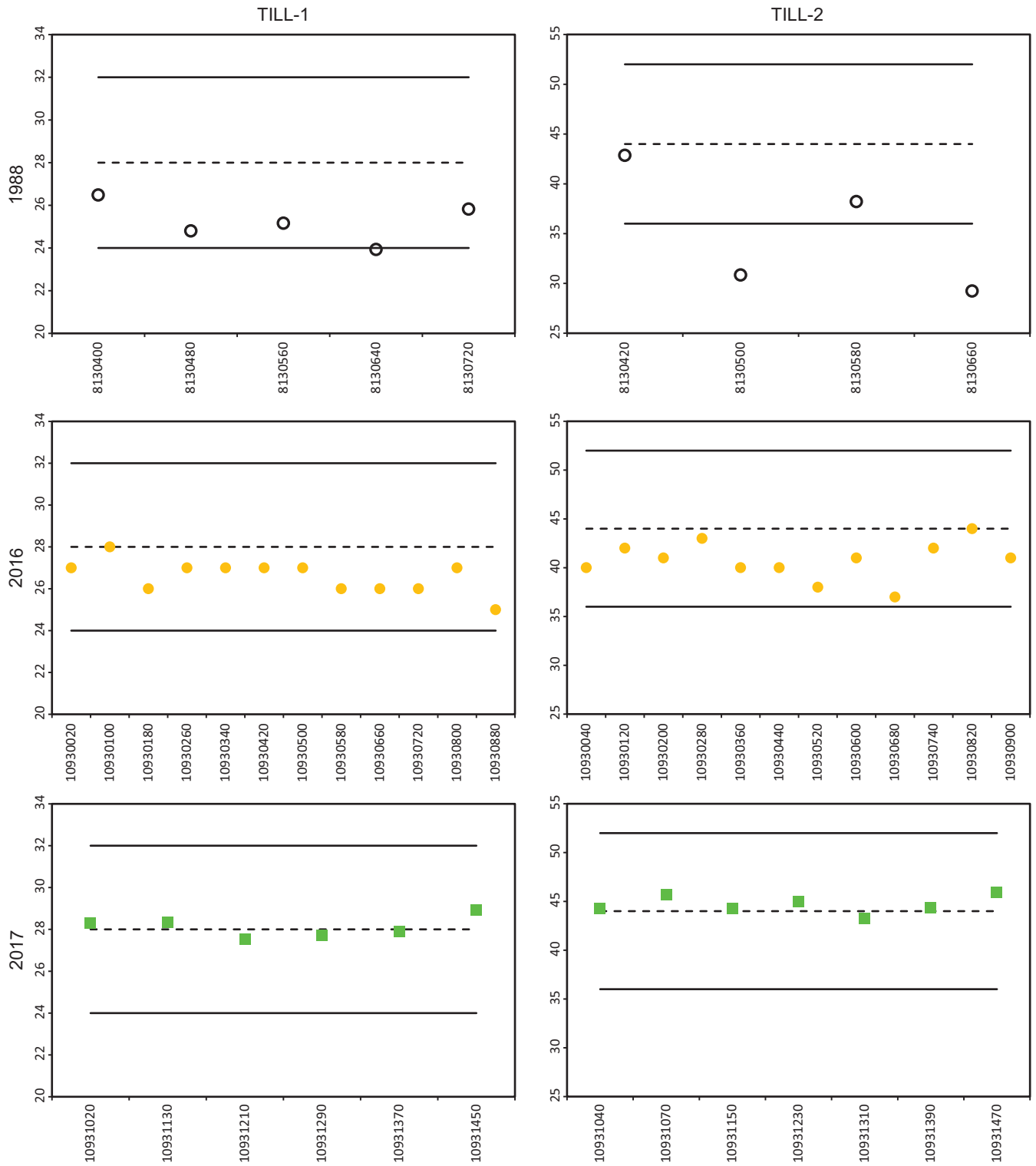
La (INAA)



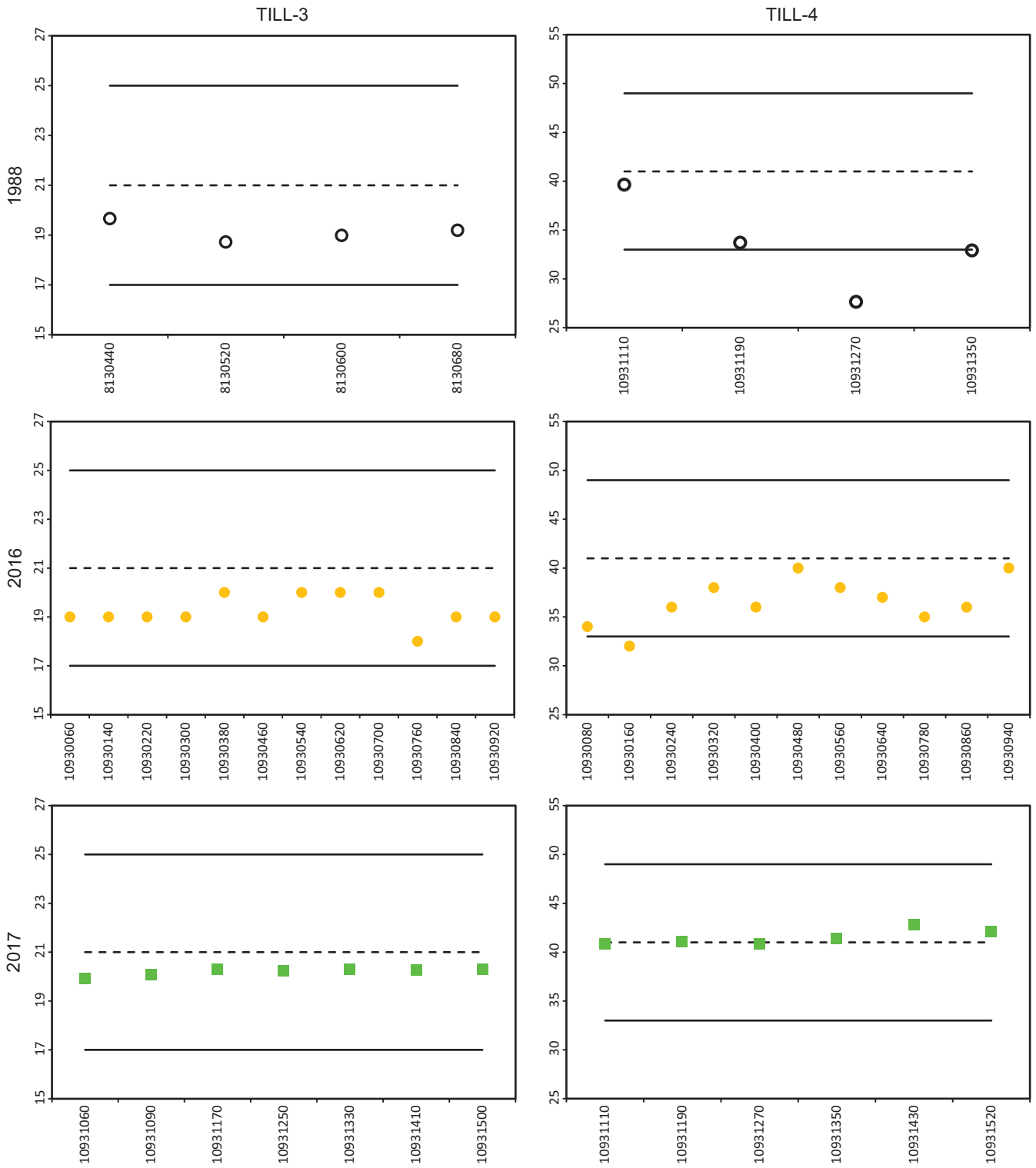
La (INAA)



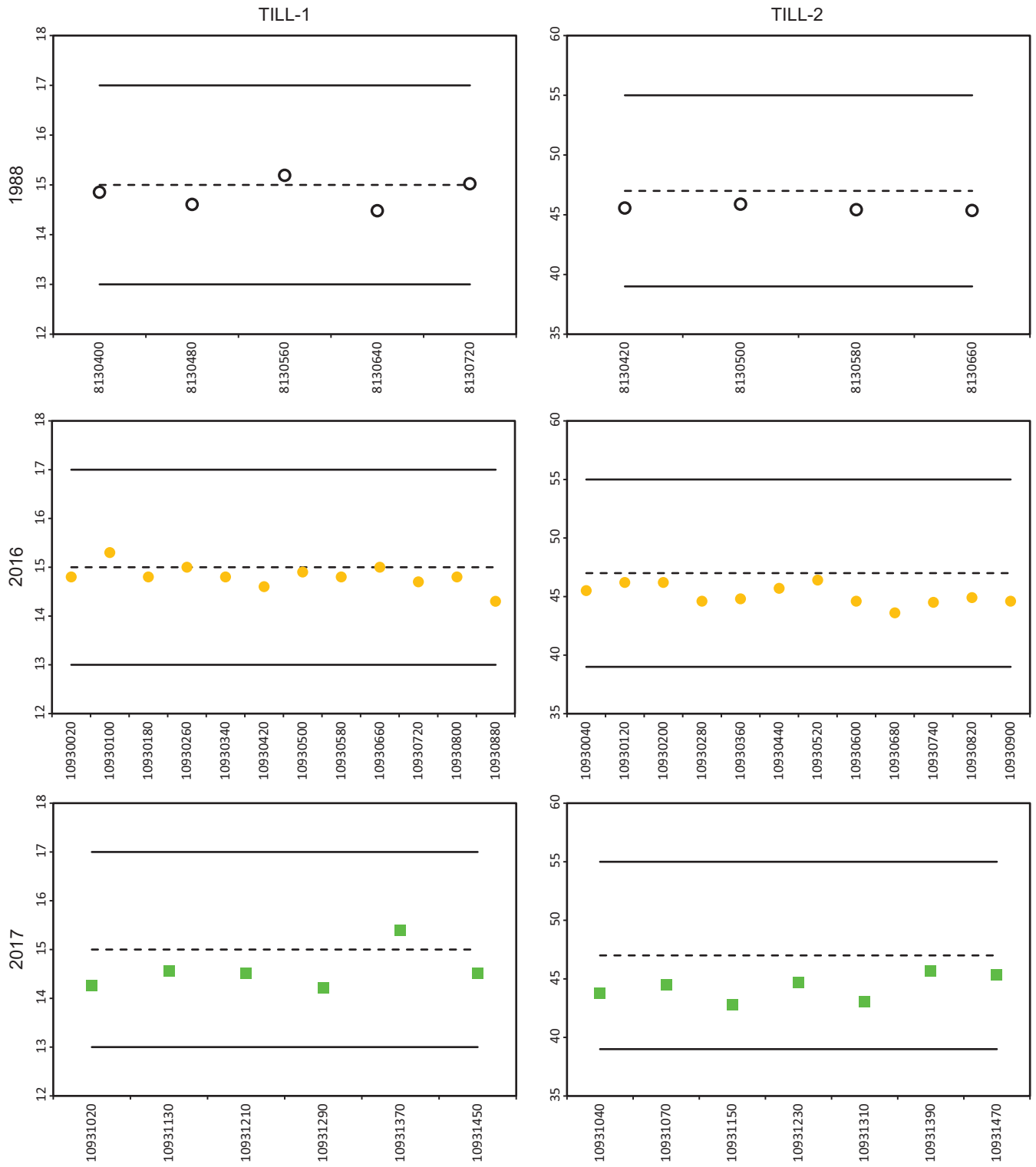
La (Multiacid ICP-OES)



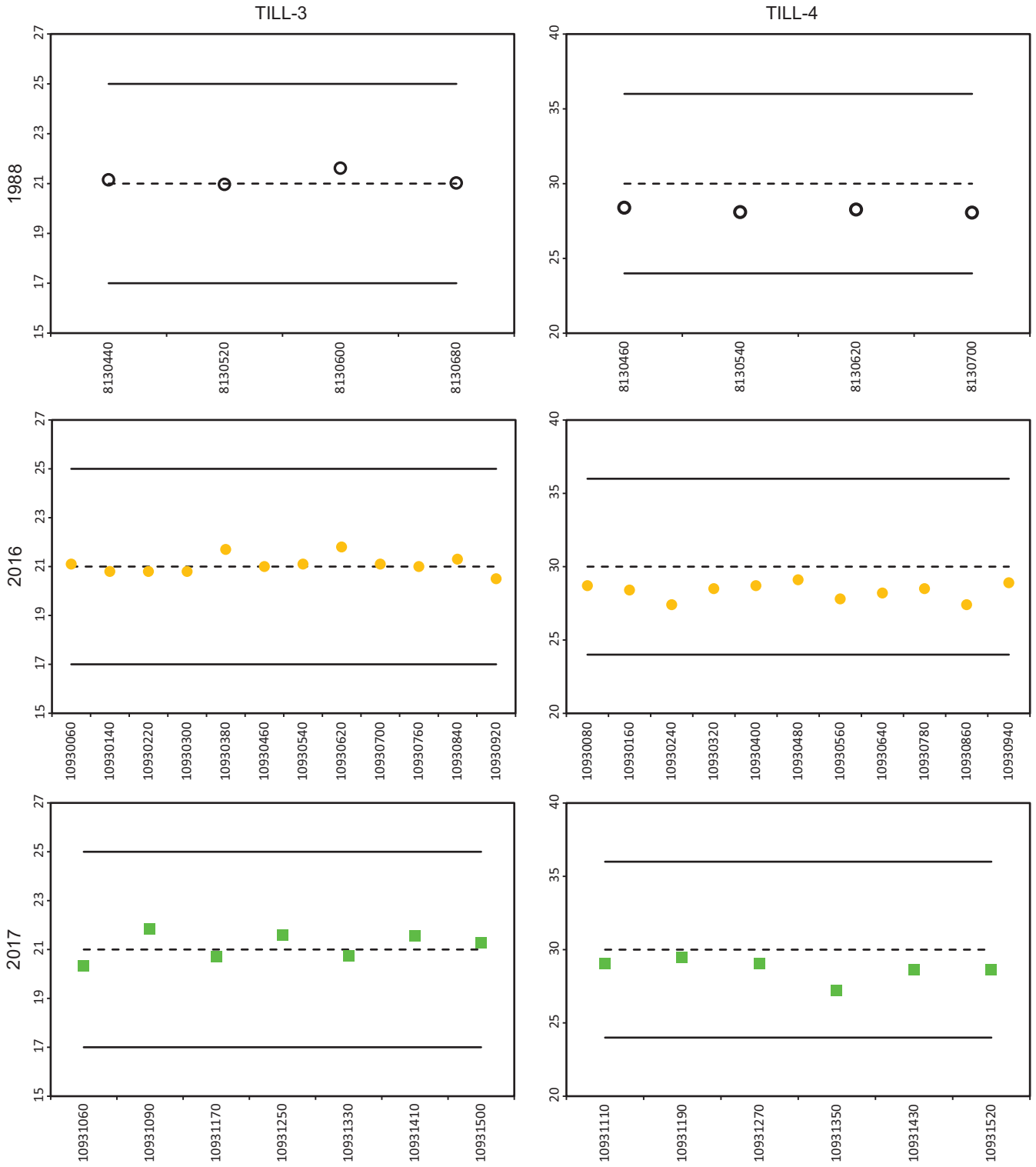
La (Multiacid ICP-OES)



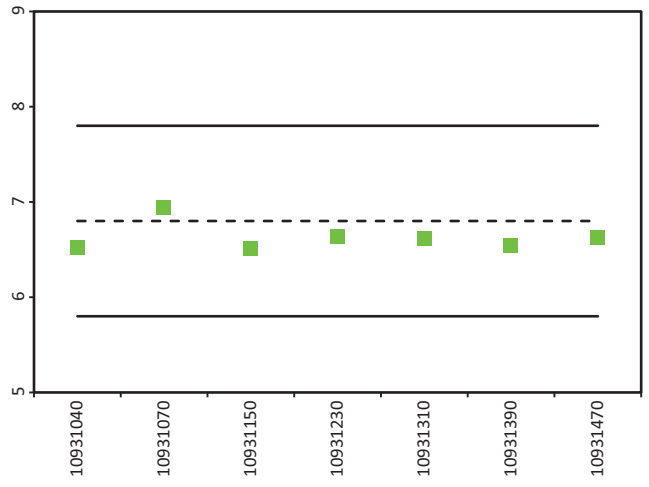
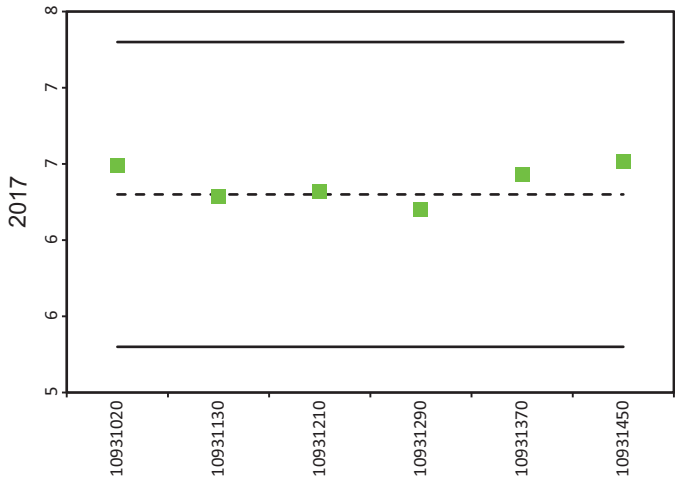
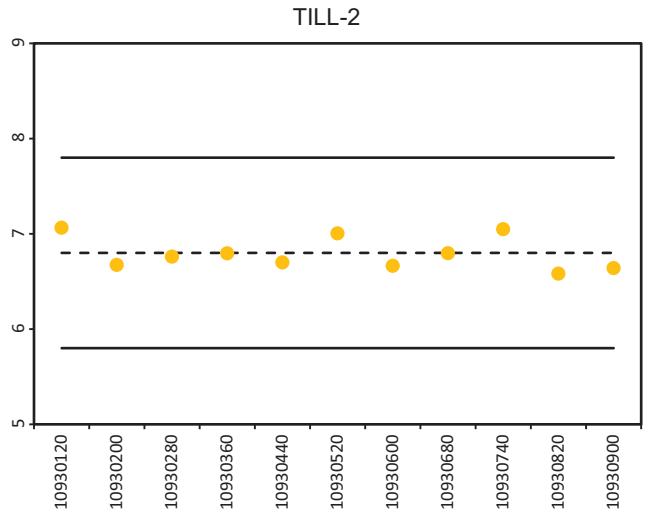
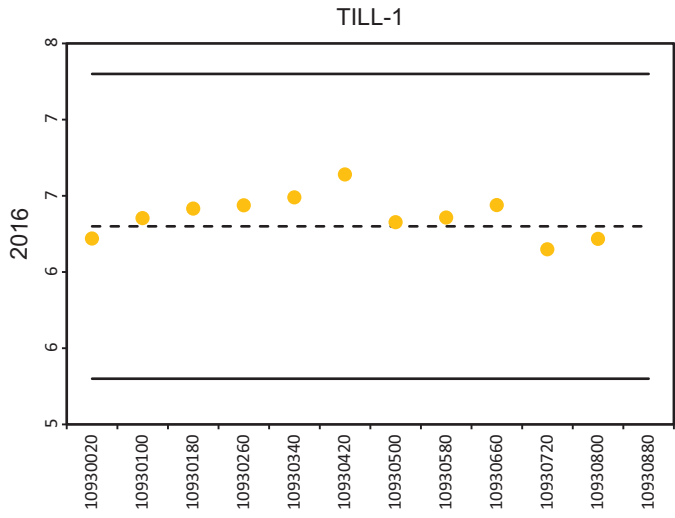
Li (Multiacid ICP-OES)



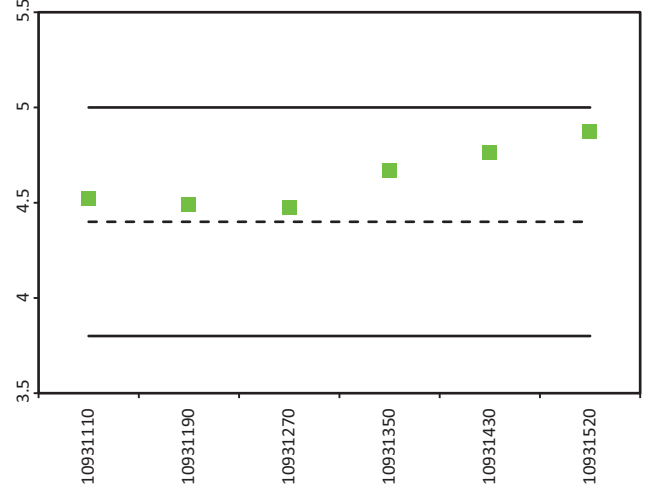
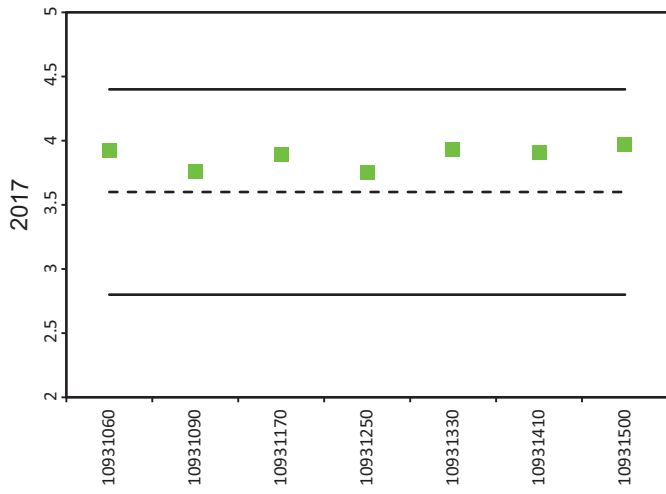
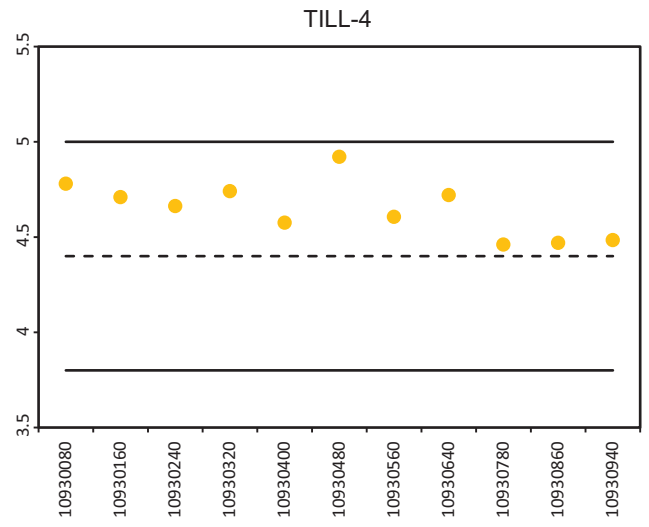
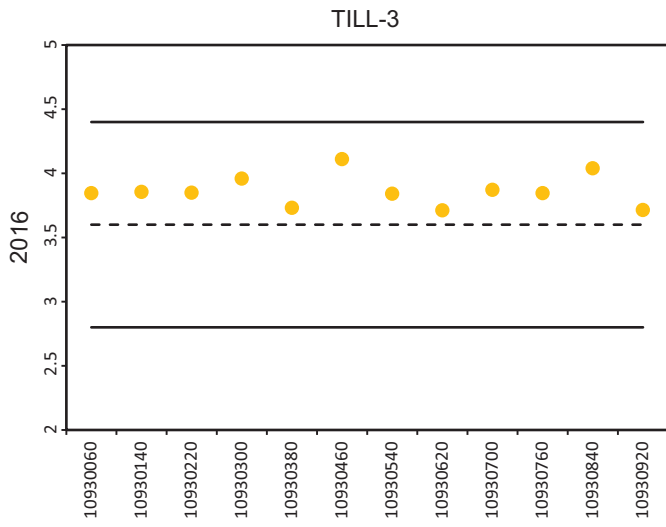
Li (Multiacid ICP-OES)



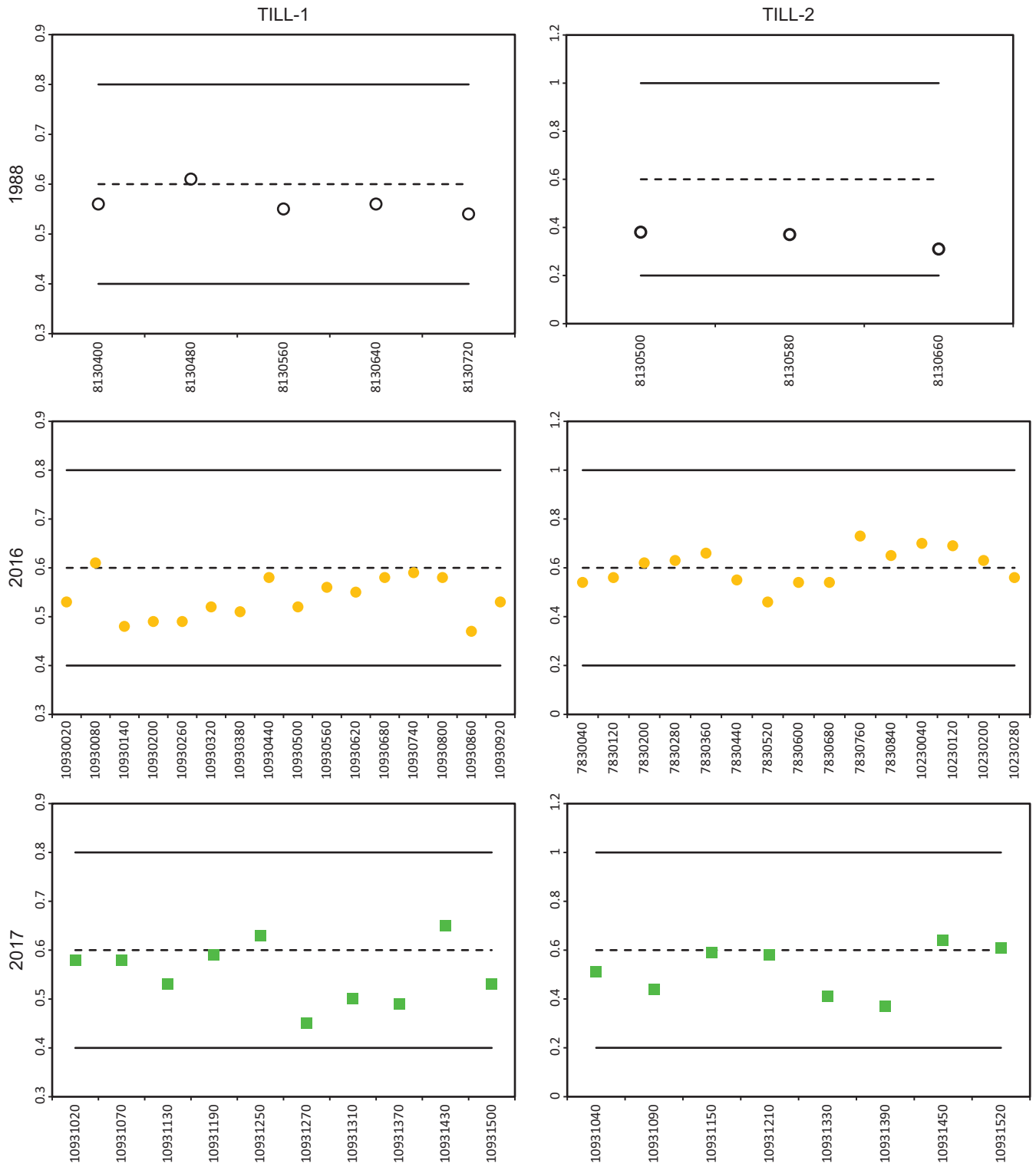
LOI (Gravimetric)



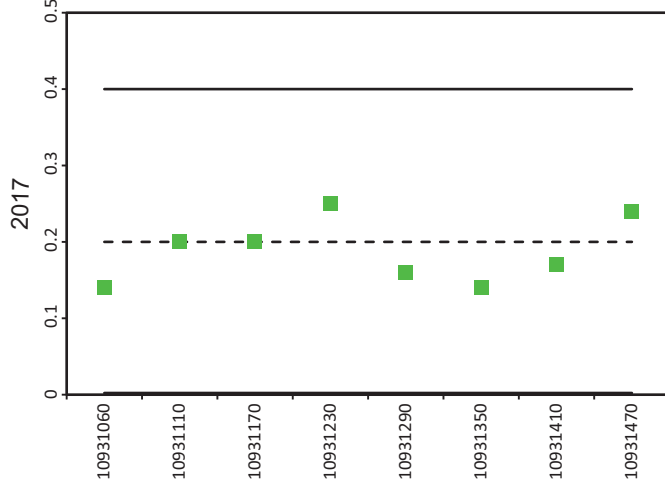
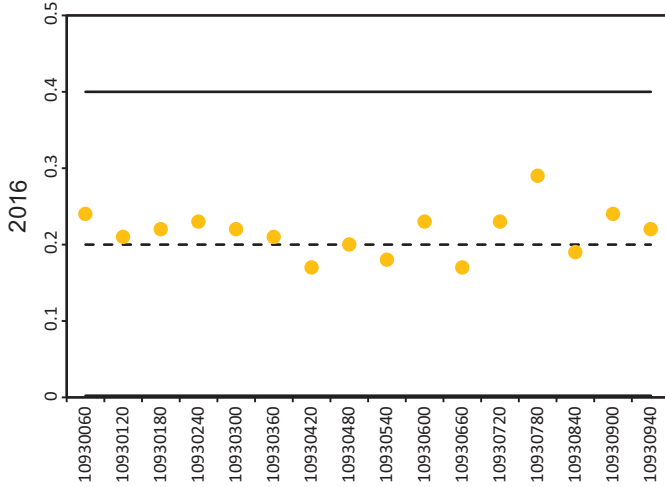
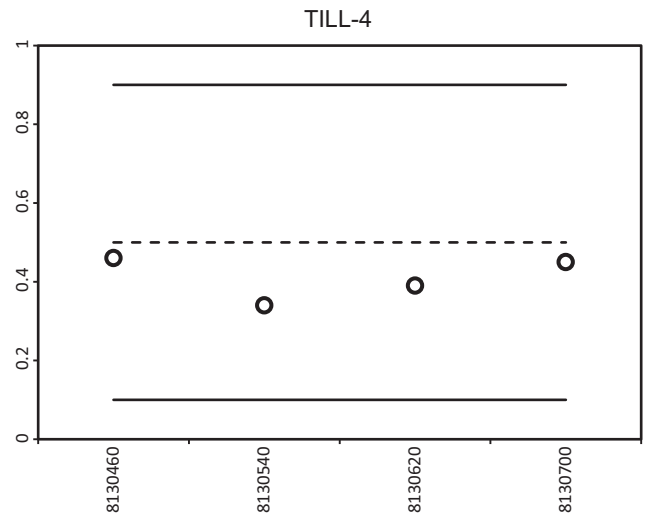
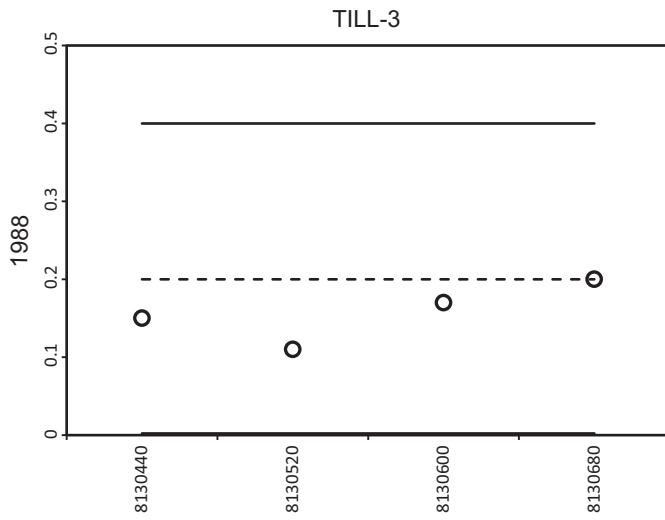
LOI (Gravimetric)



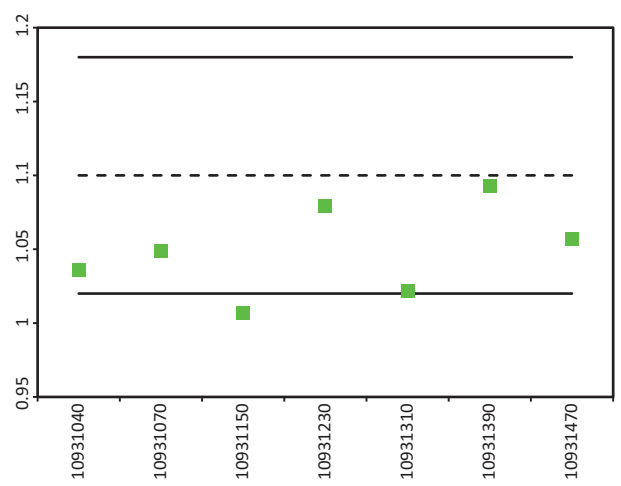
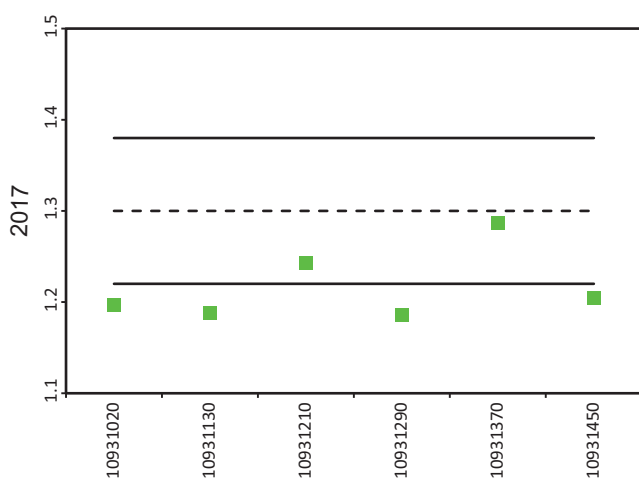
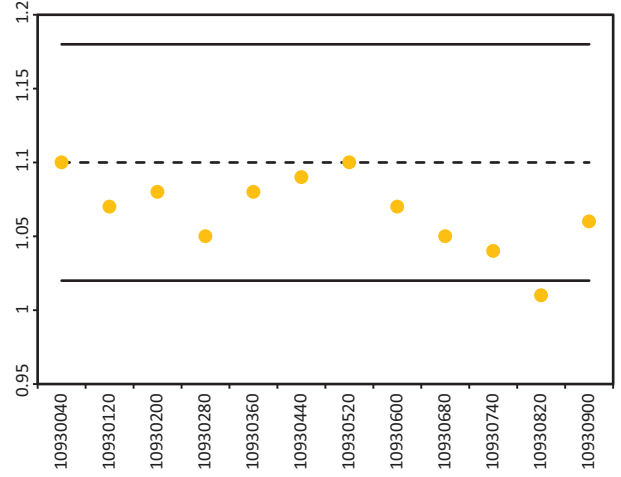
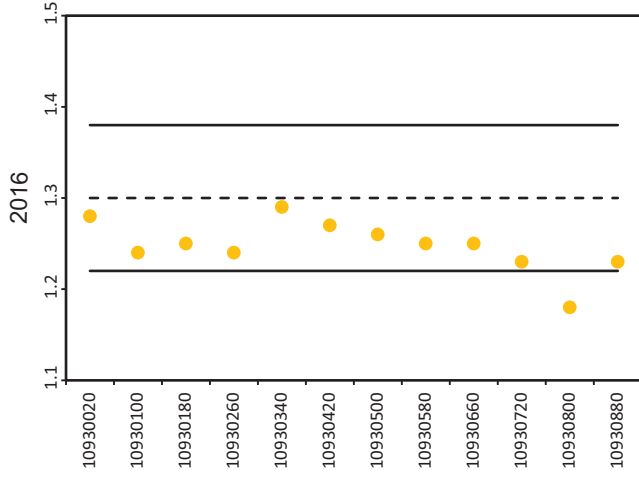
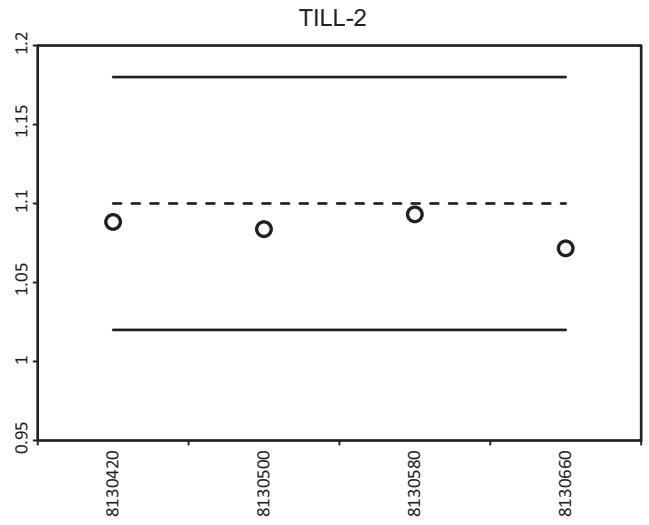
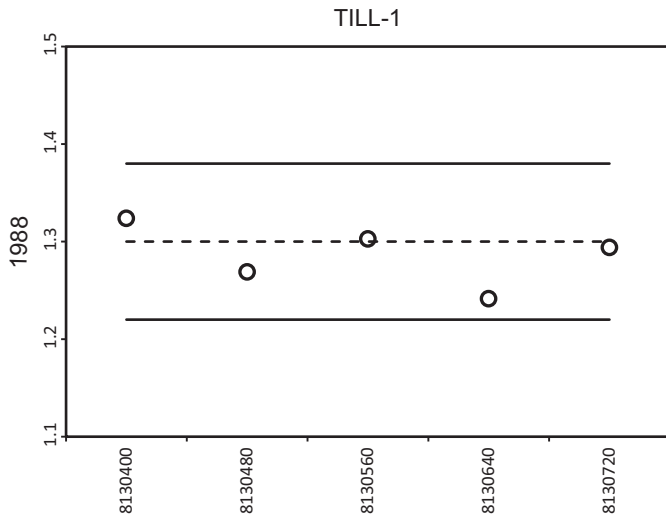
Lu (INAA)



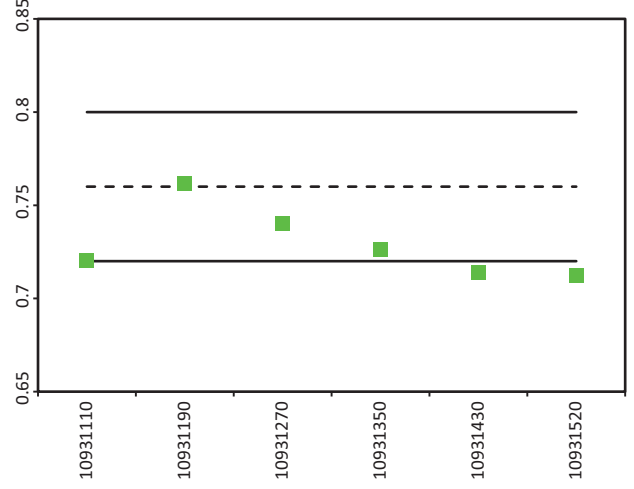
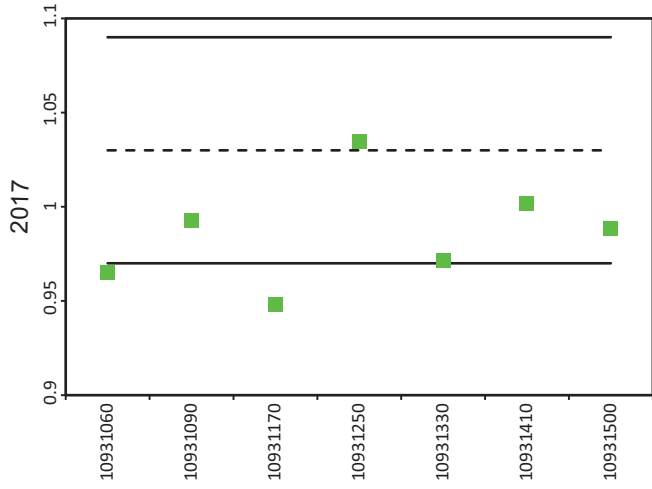
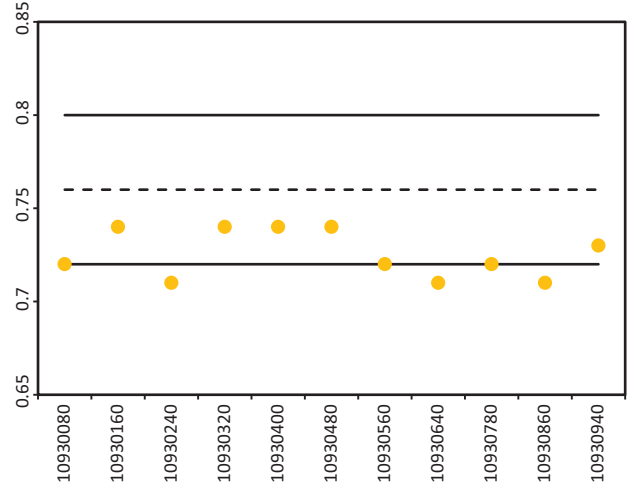
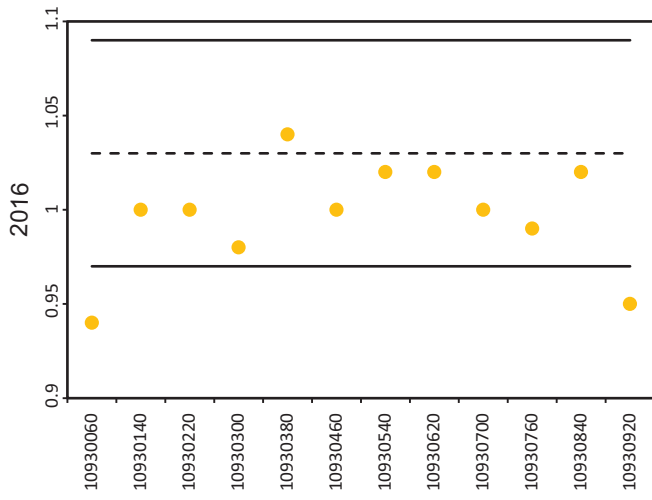
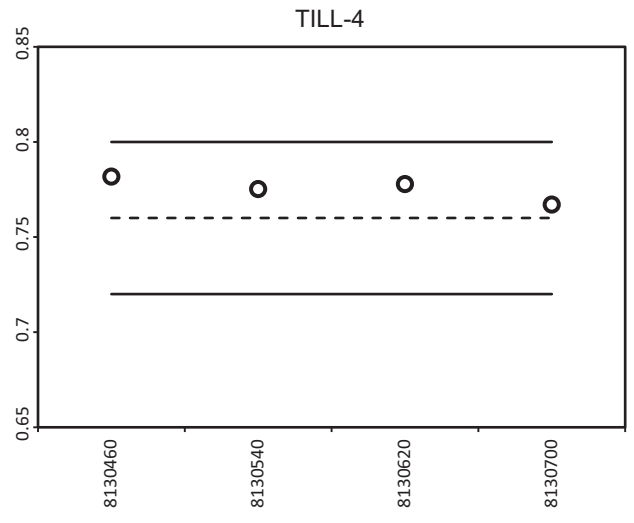
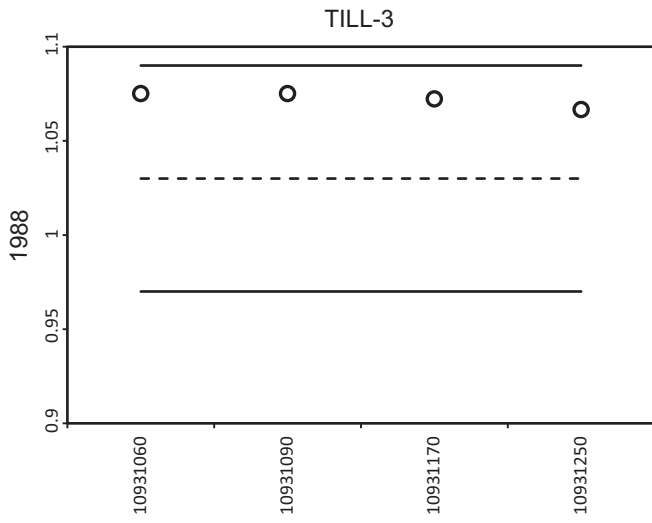
Lu (INAA)



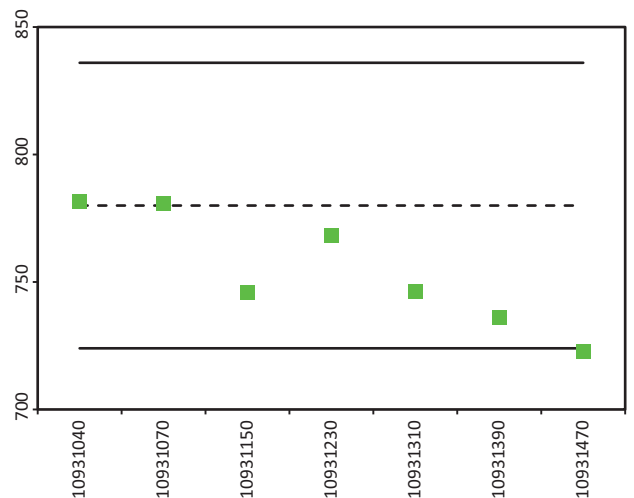
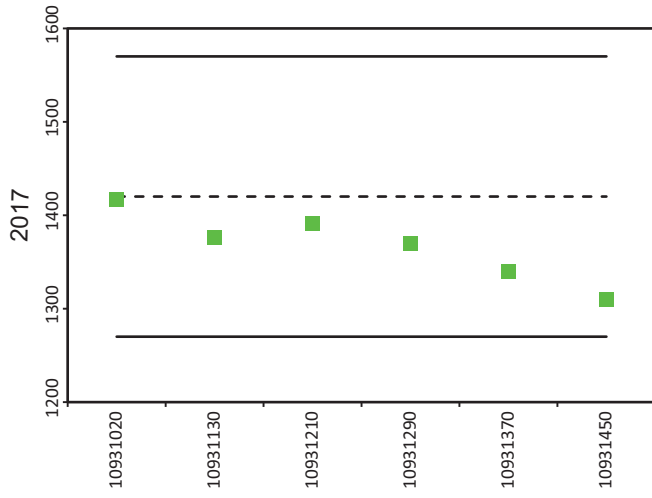
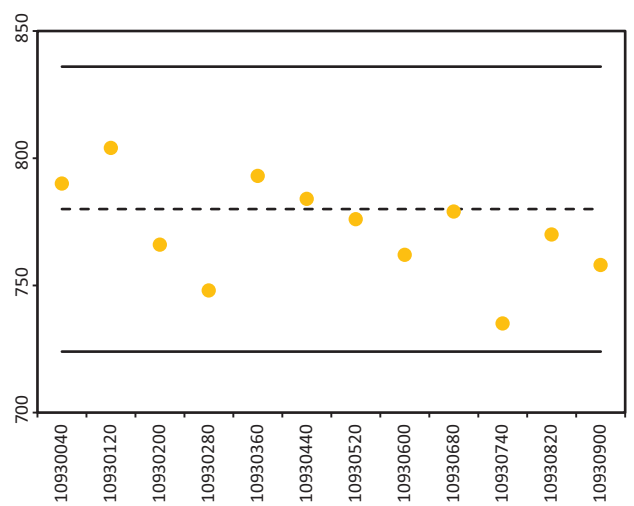
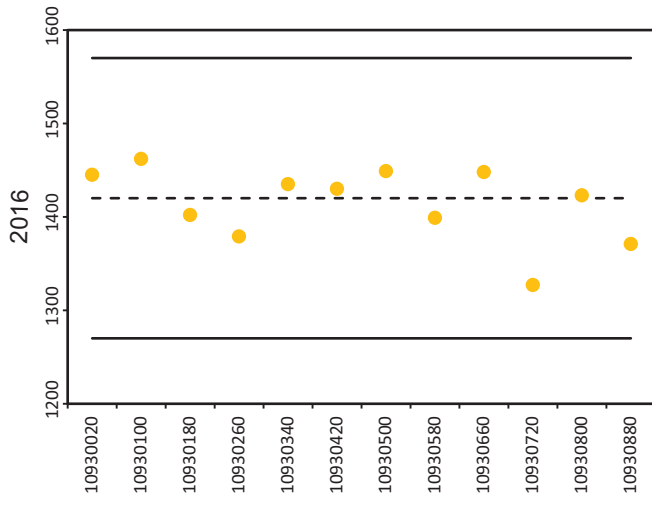
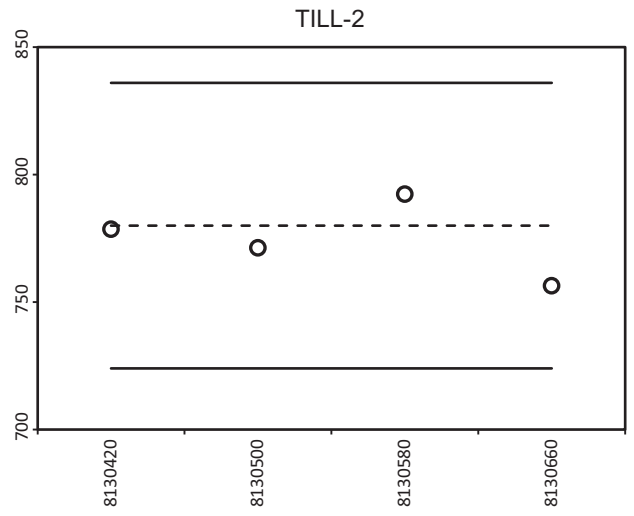
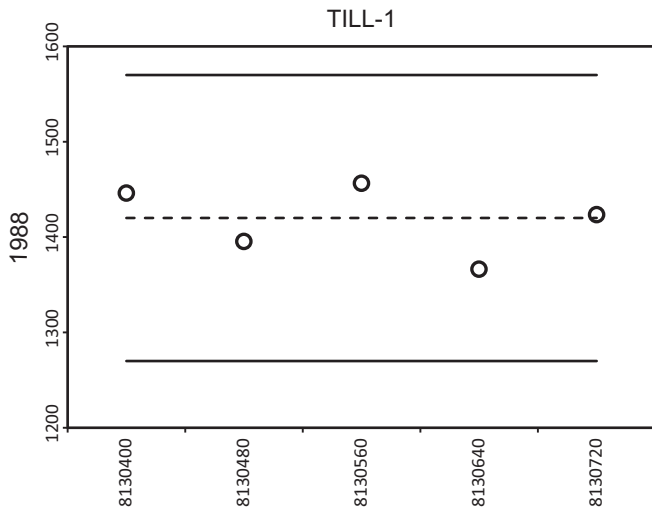
Mg (Multiacid ICP-OES)



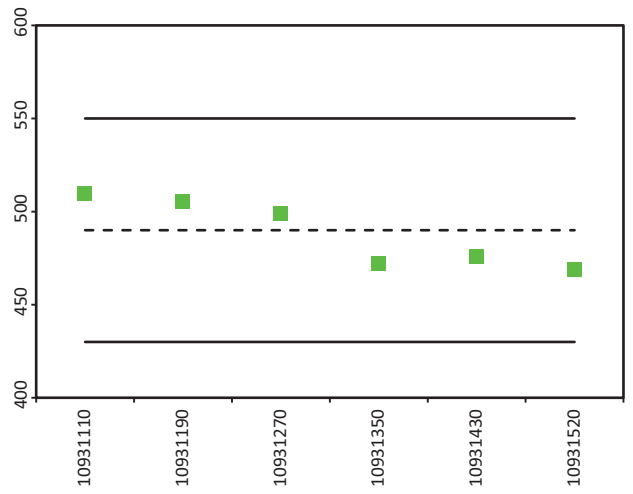
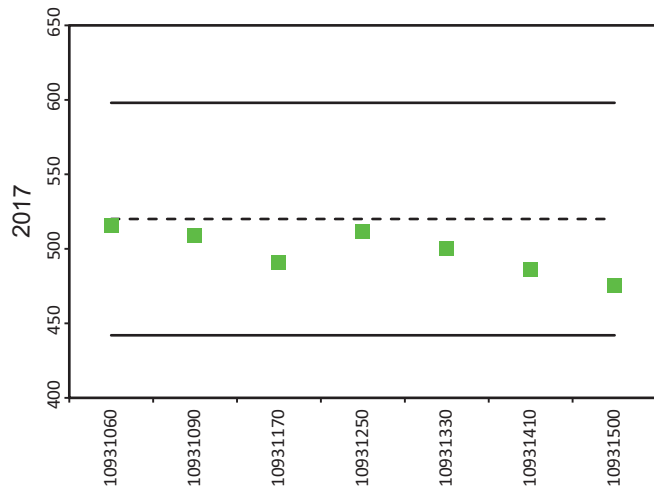
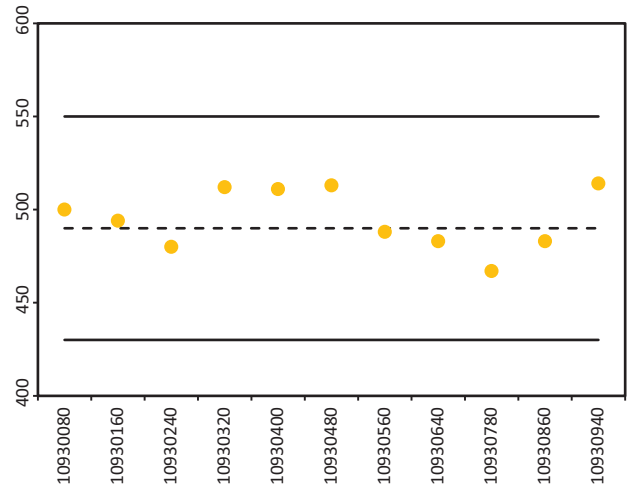
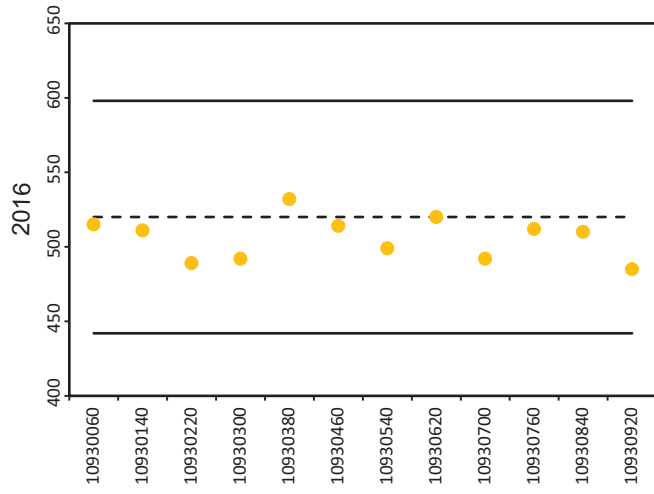
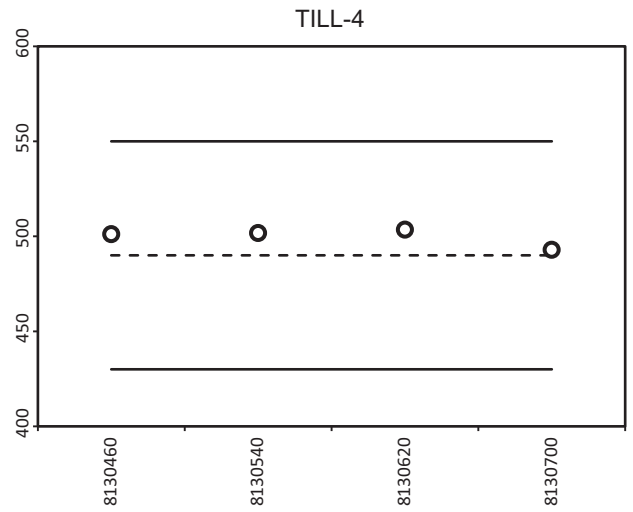
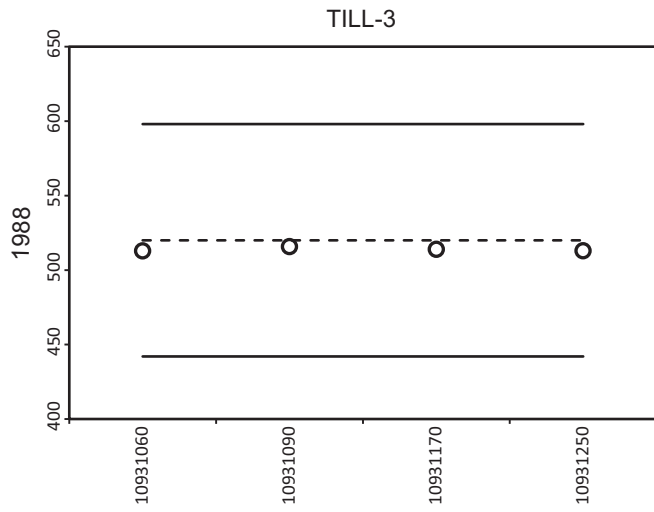
Mg (Multiacid ICP-OES)



Mn (Multiacid ICP-OES)

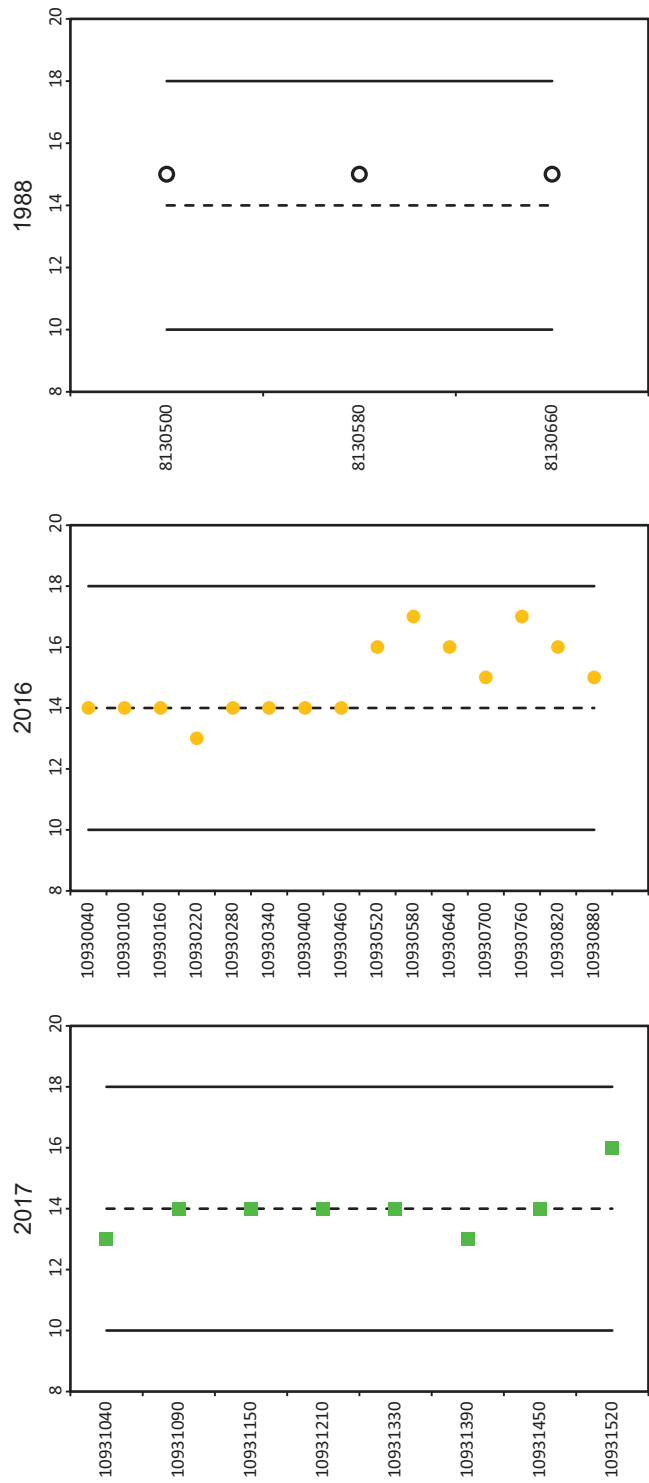


Mn (Multiacid ICP-OES)



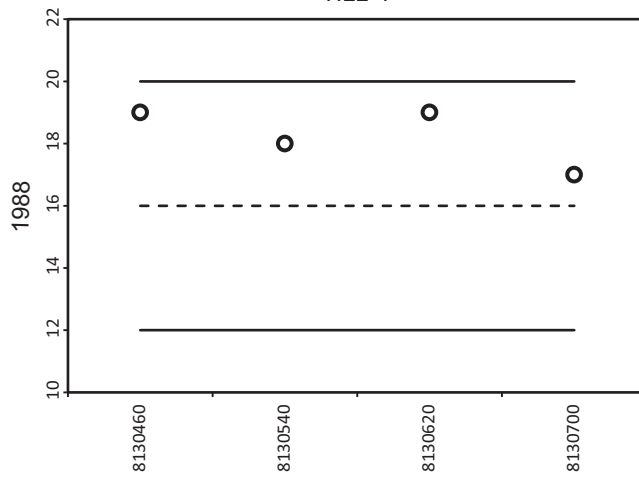
Mo (INAA)

TILL-2



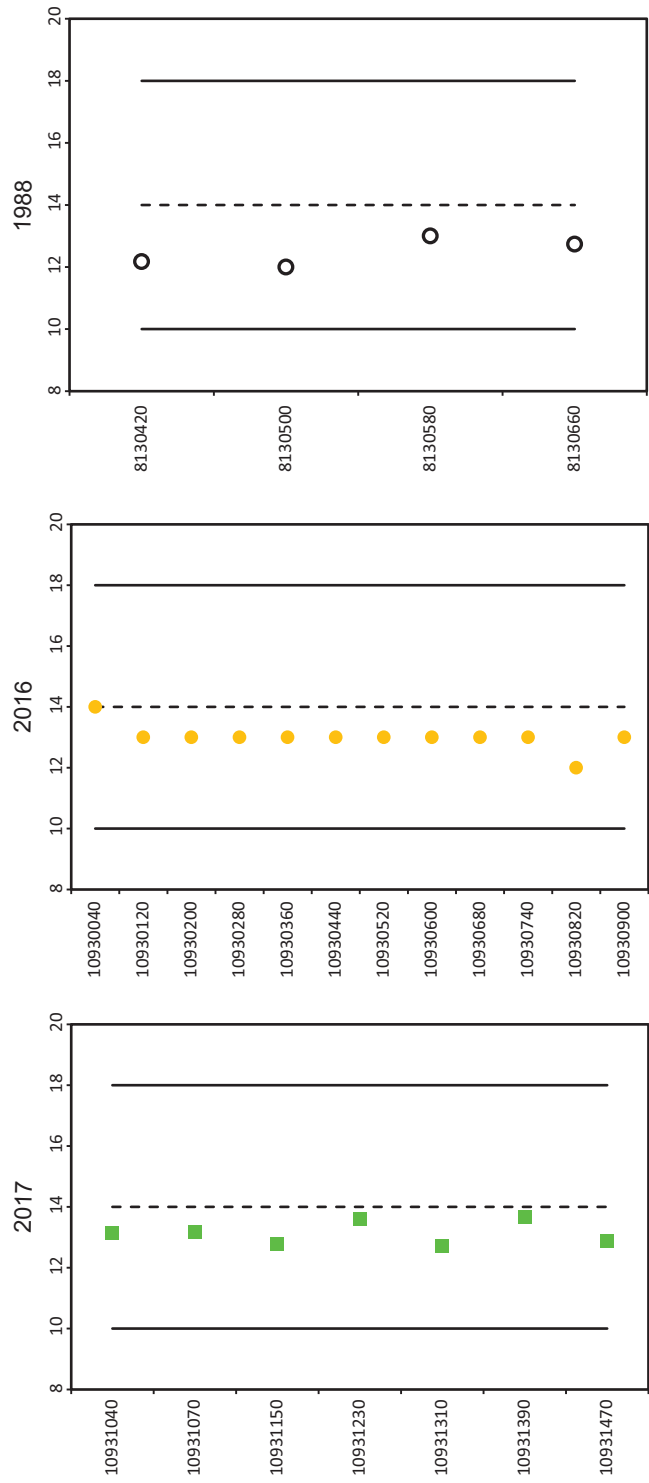
Mo (INAA)

TILL-4



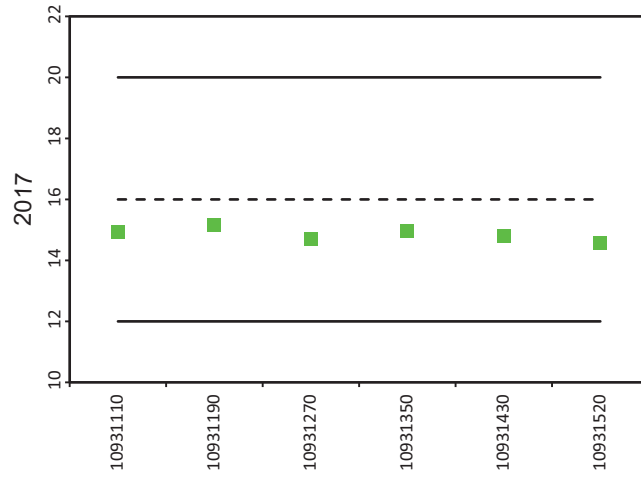
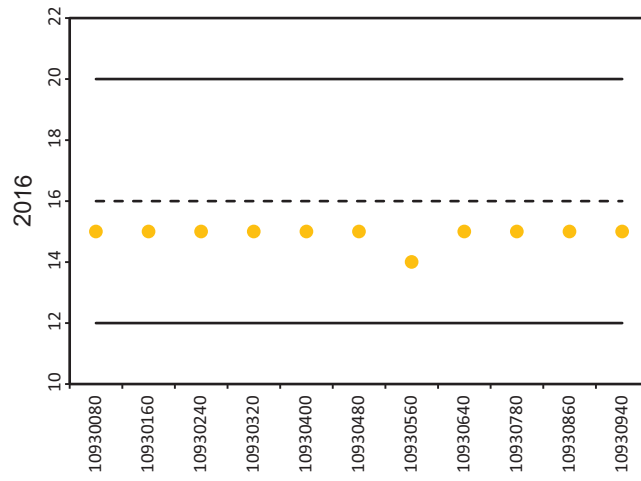
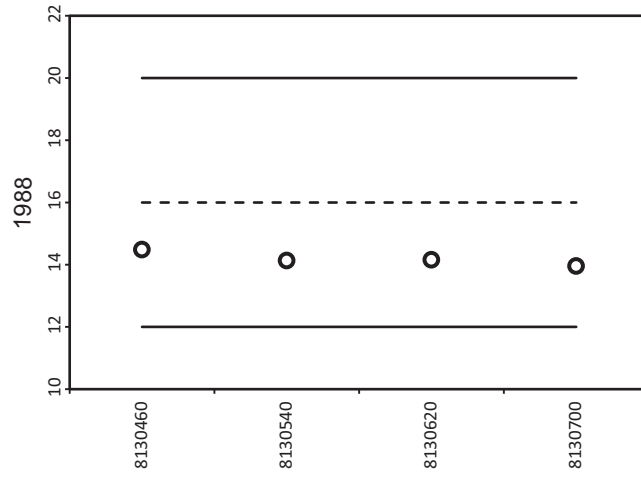
Mo (Multiacid ICP-OES)

TILL-2

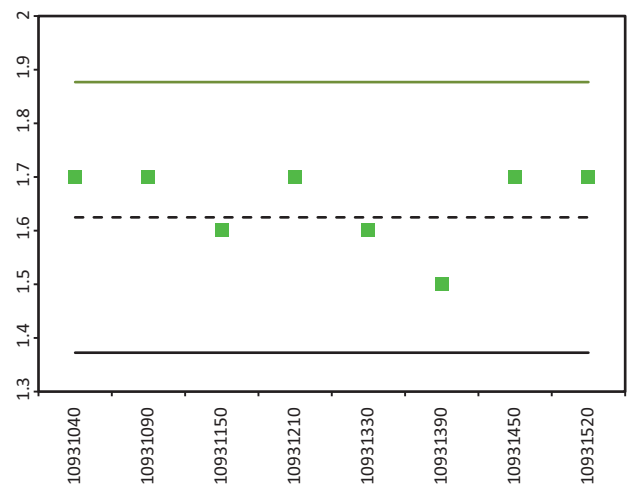
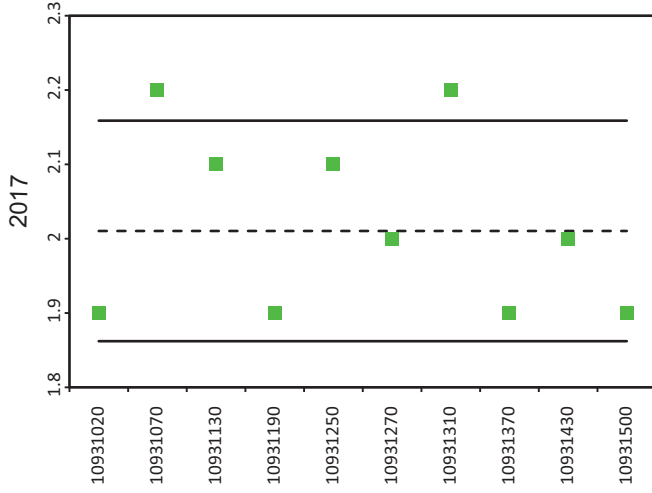
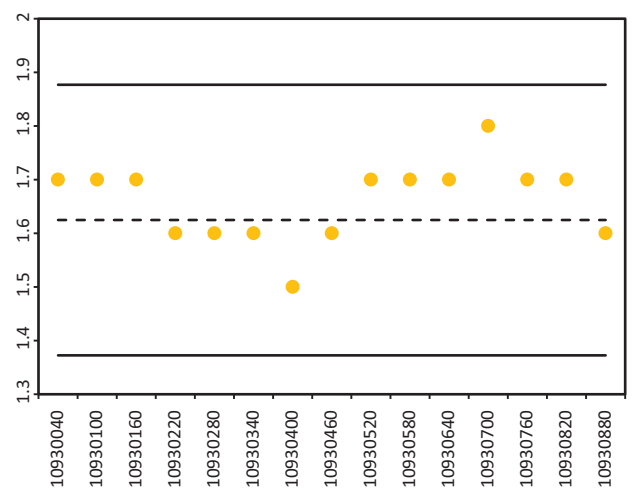
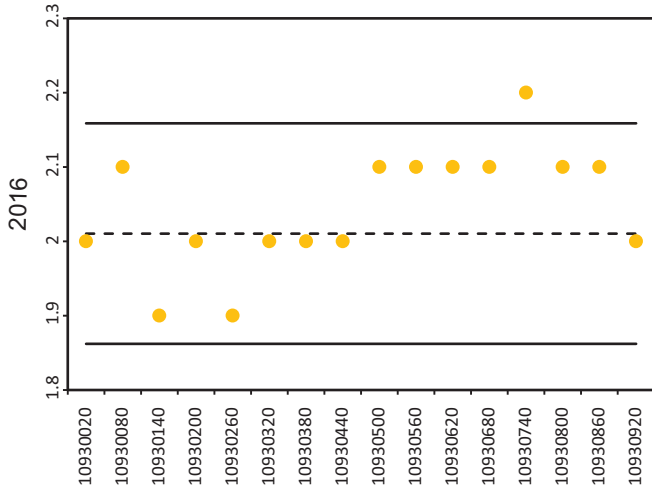
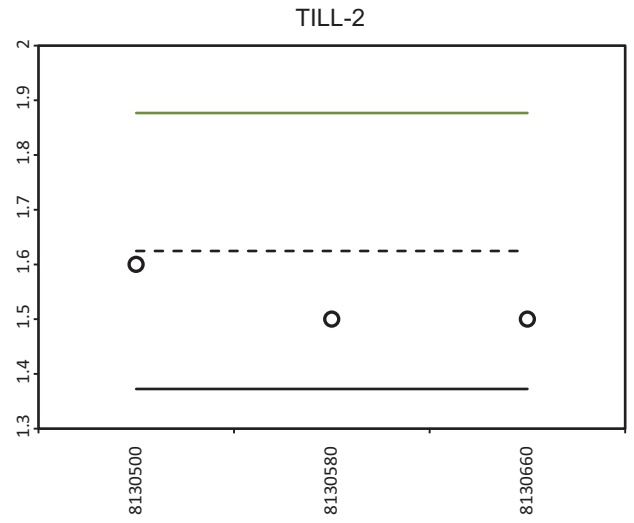
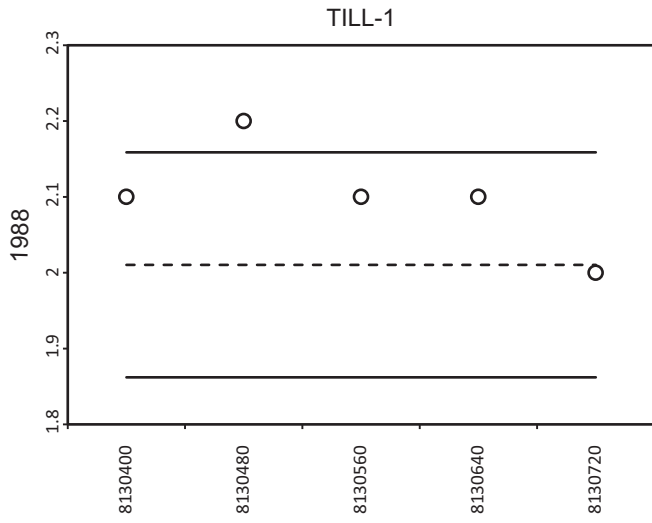


Mo (Multiacid ICP-OES)

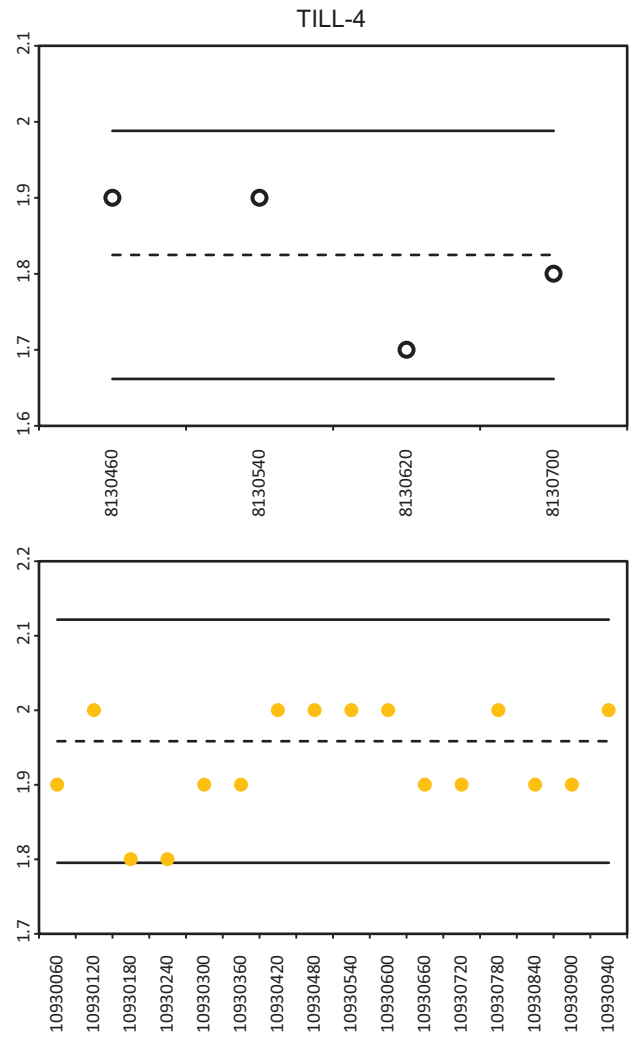
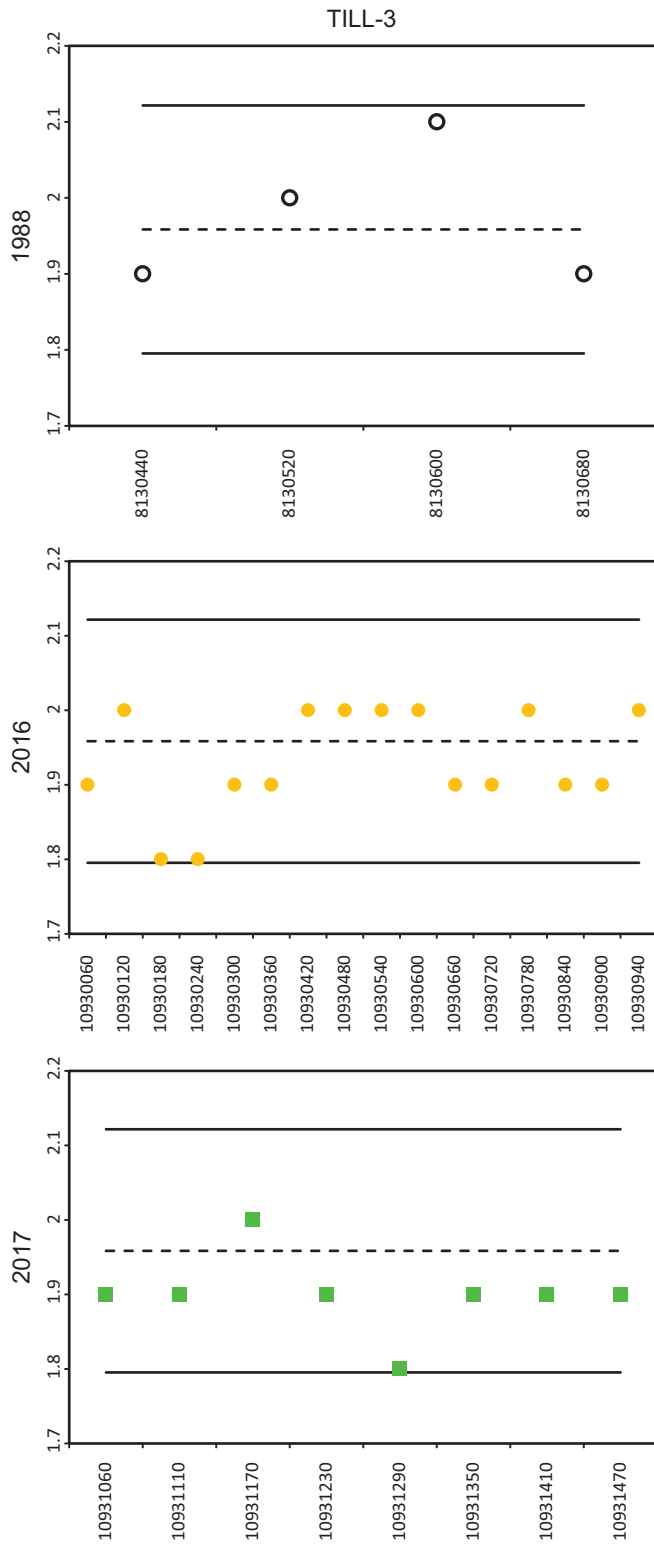
TILL-4



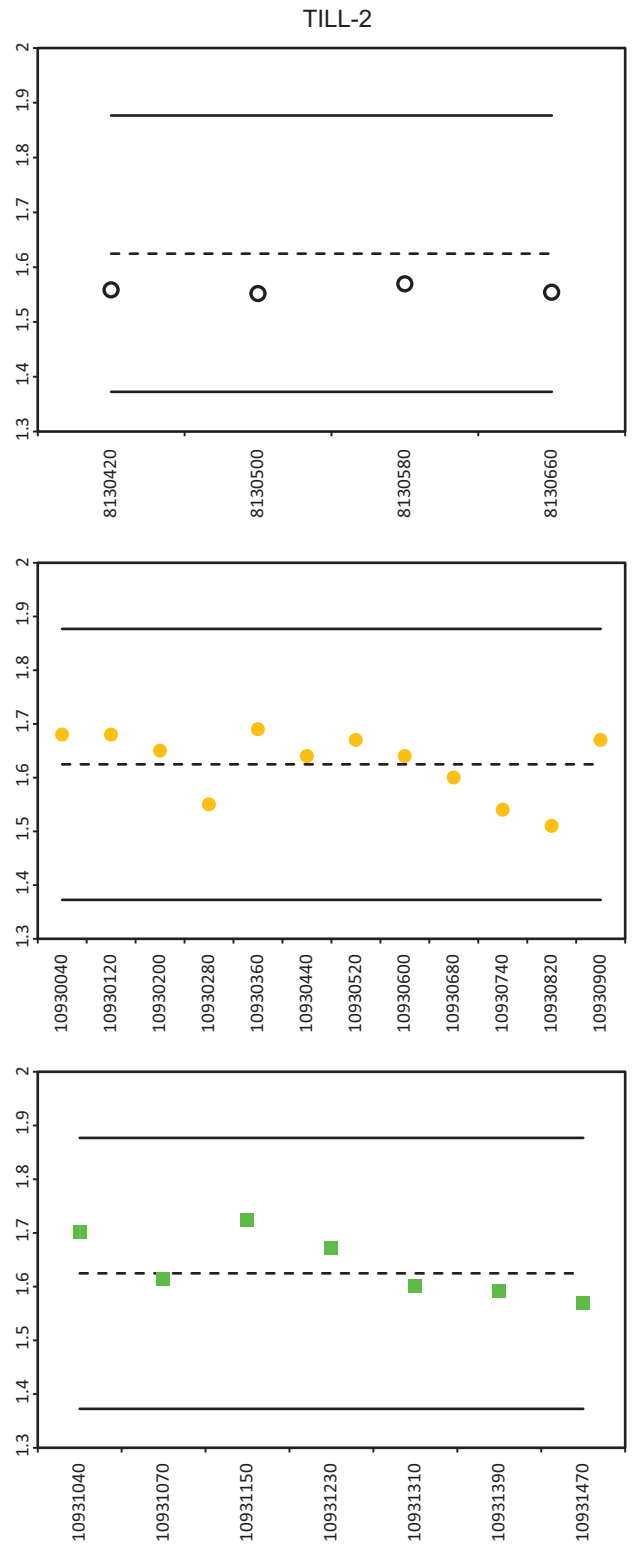
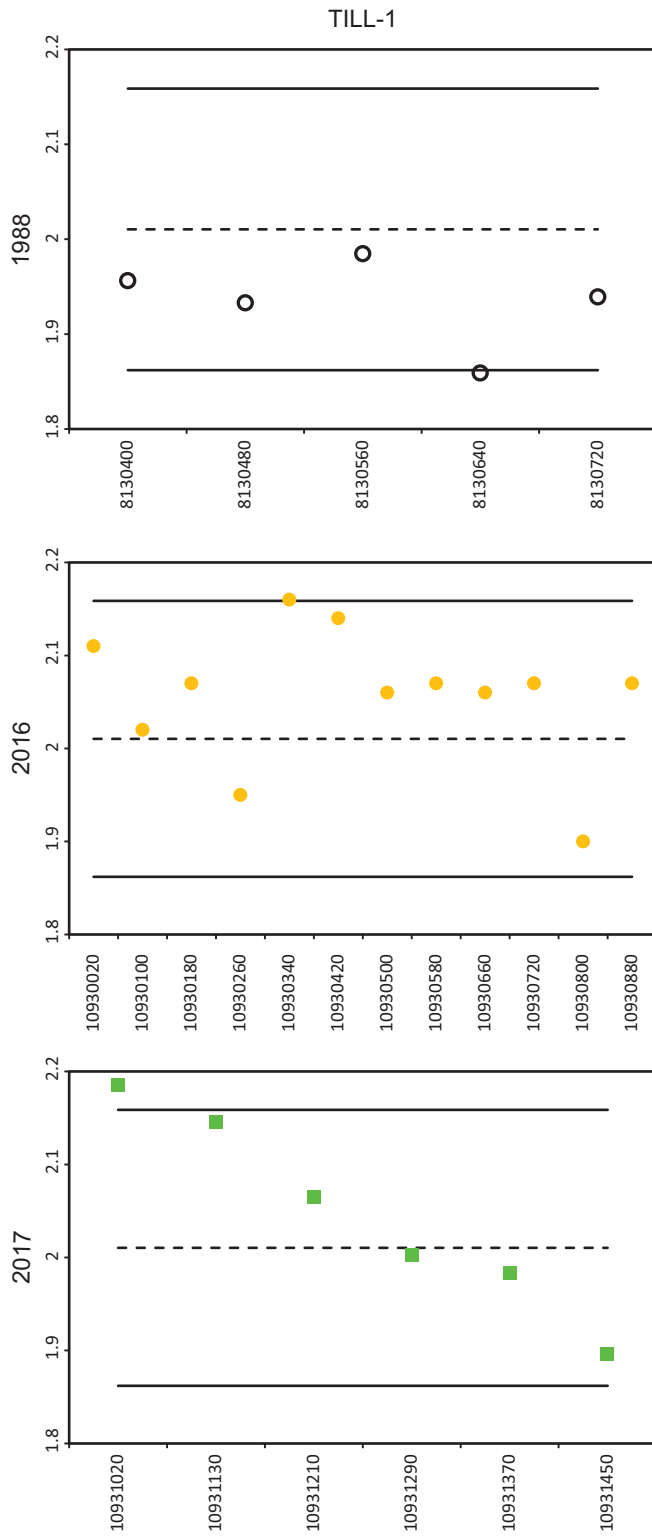
Na (INAA)



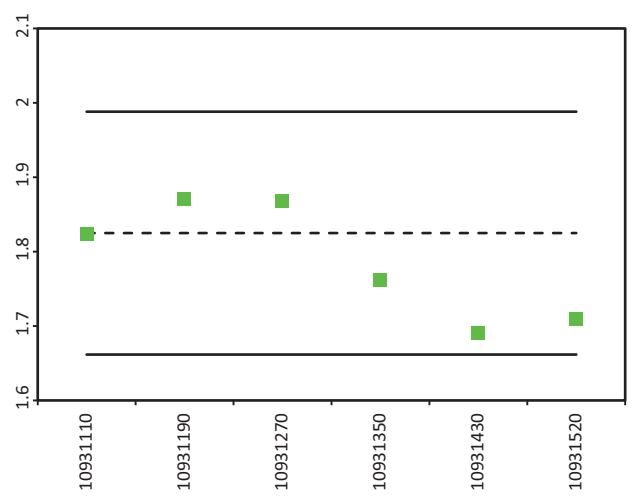
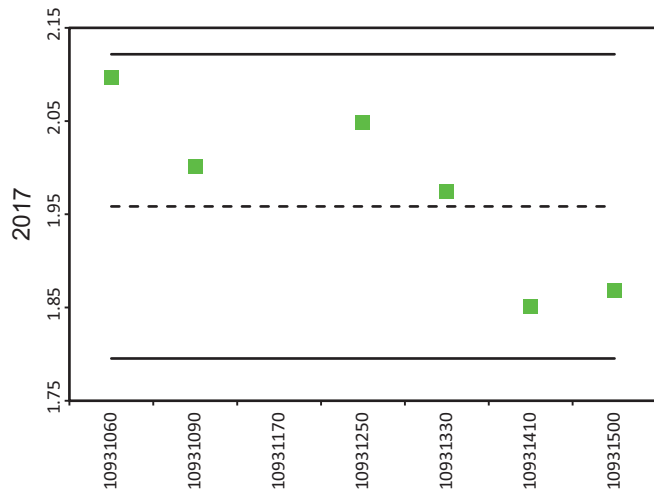
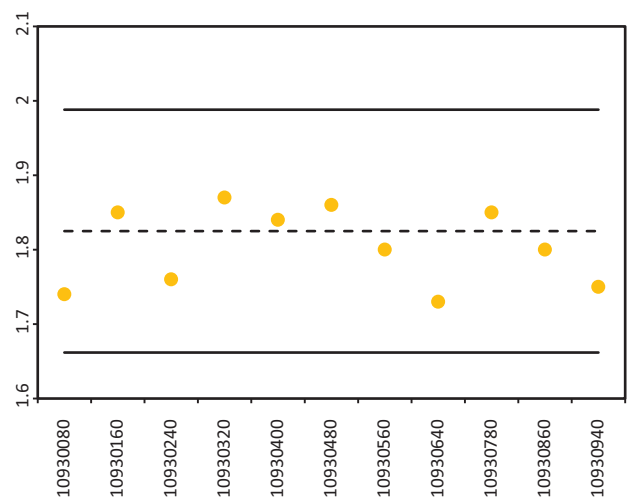
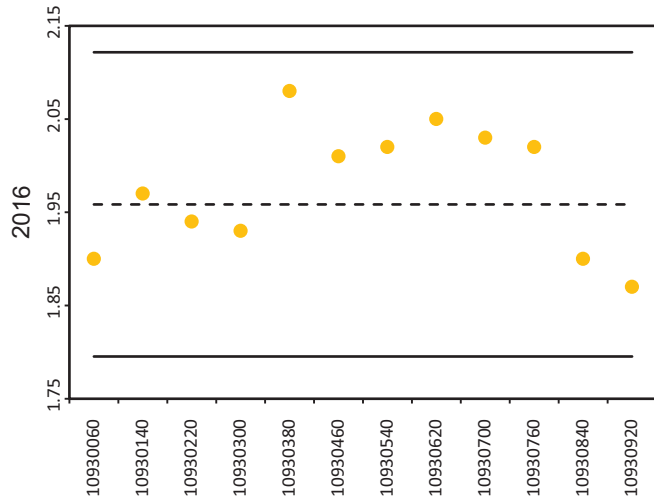
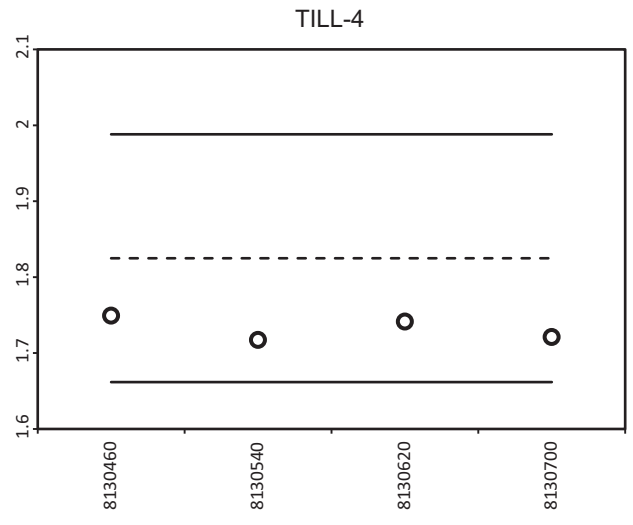
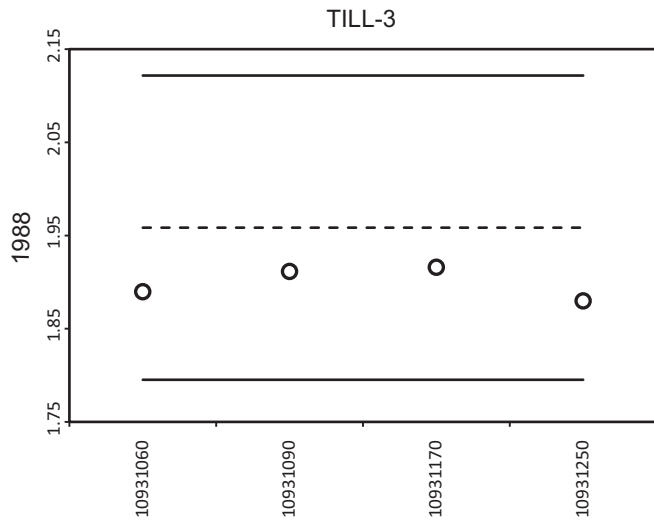
Na (INAA)



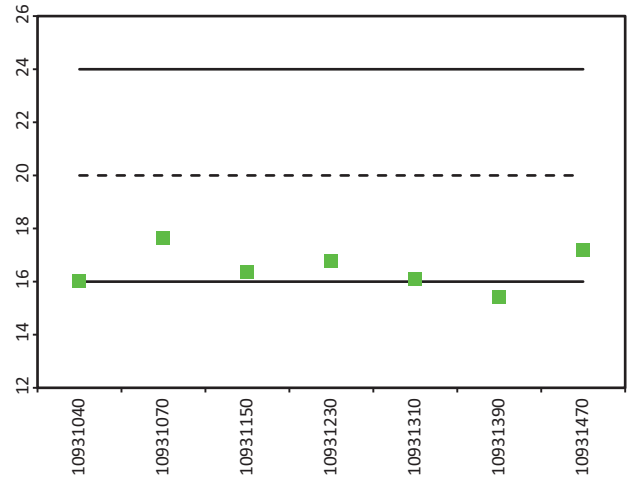
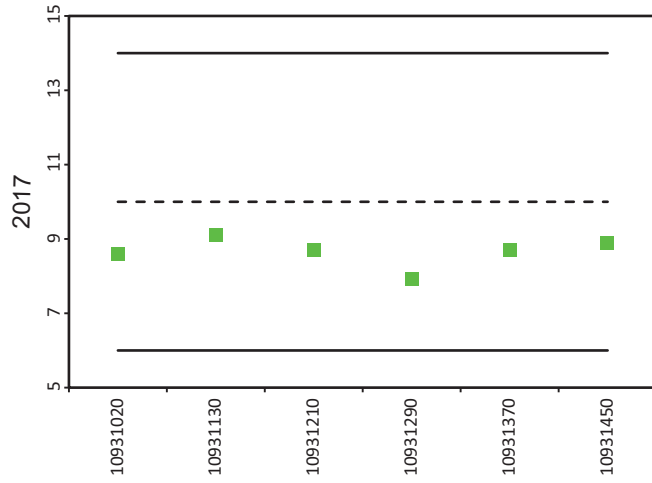
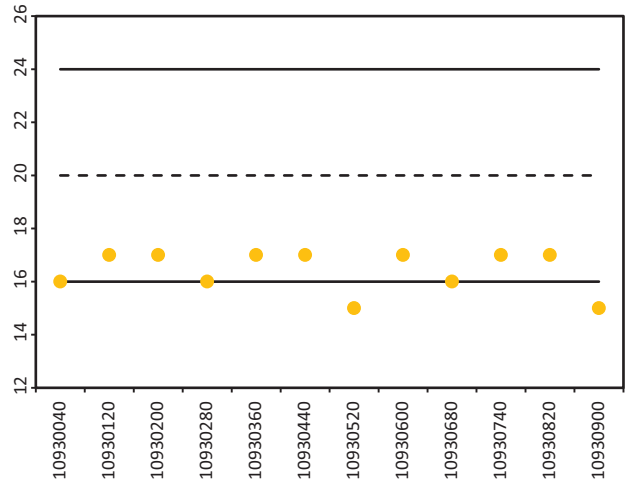
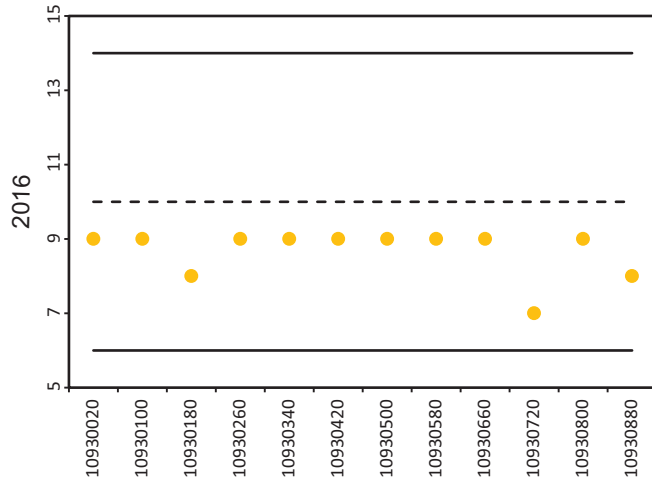
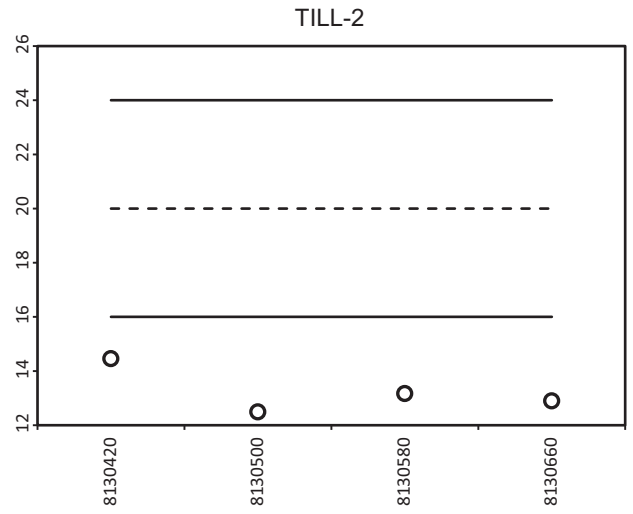
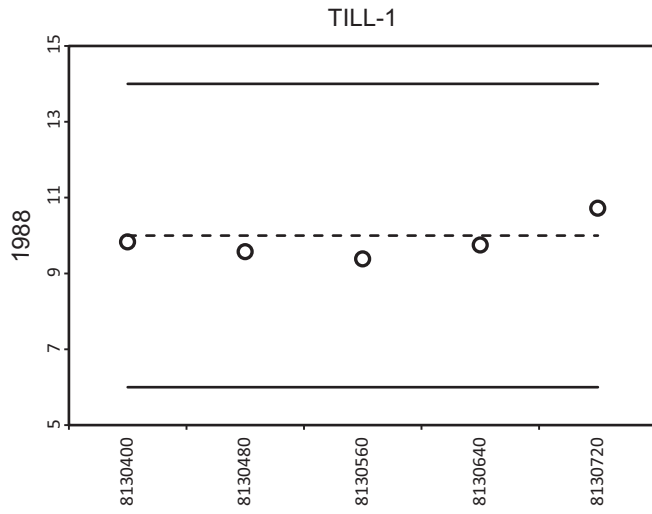
Na (Multiacid ICP-OES)



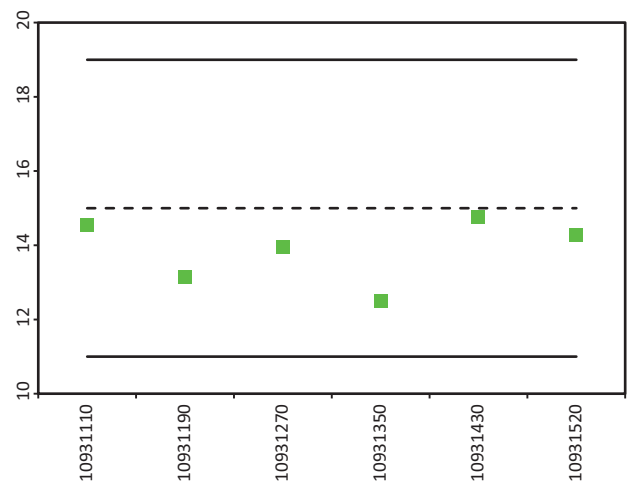
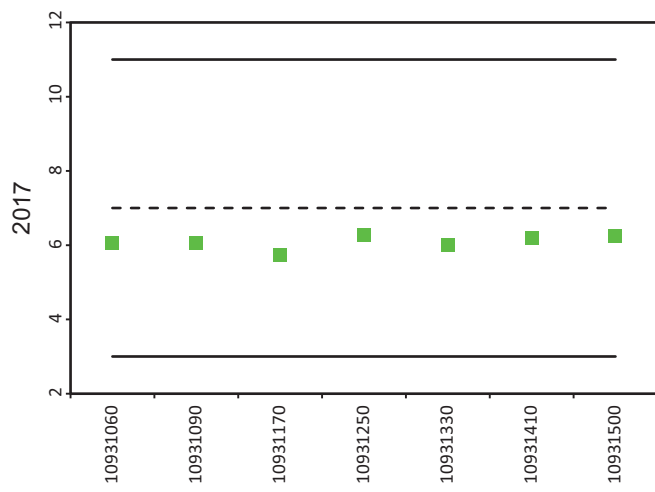
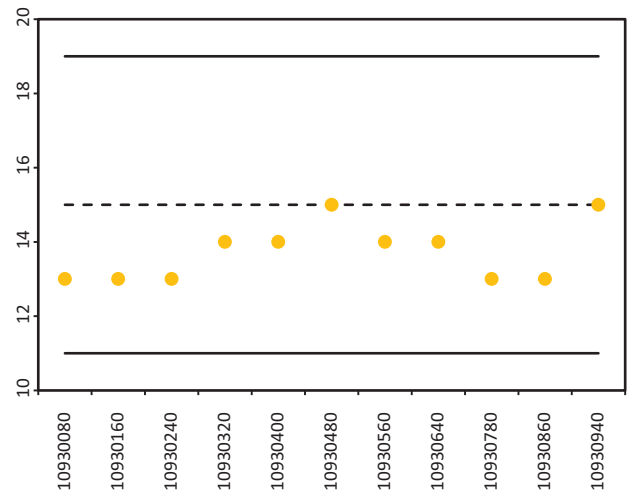
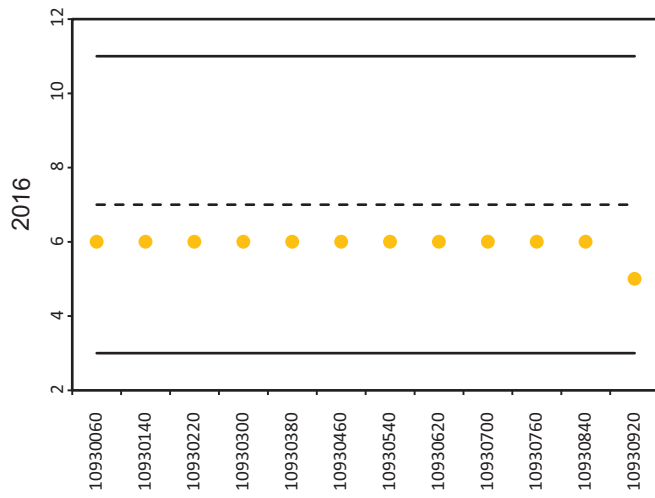
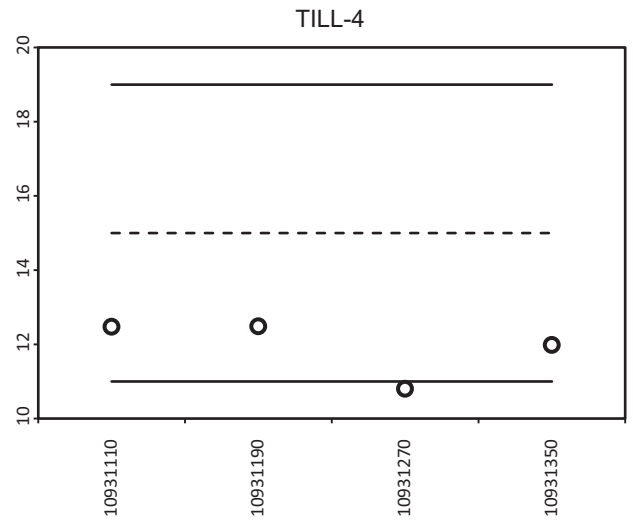
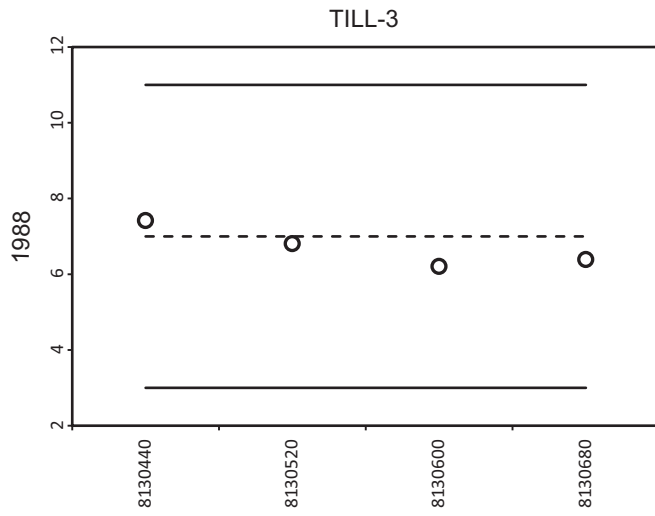
Na (Multiacid ICP-OES)



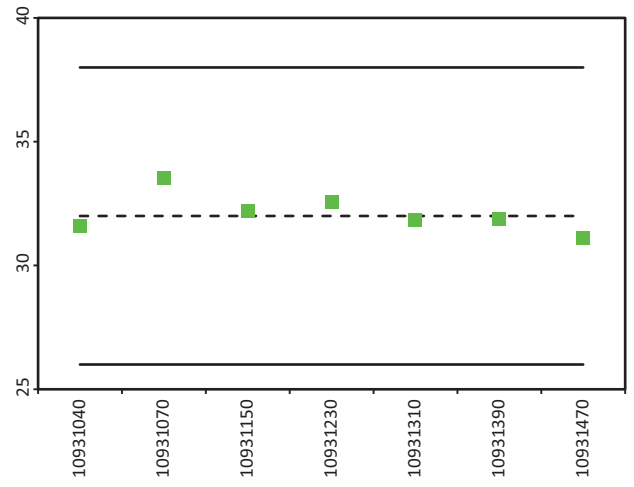
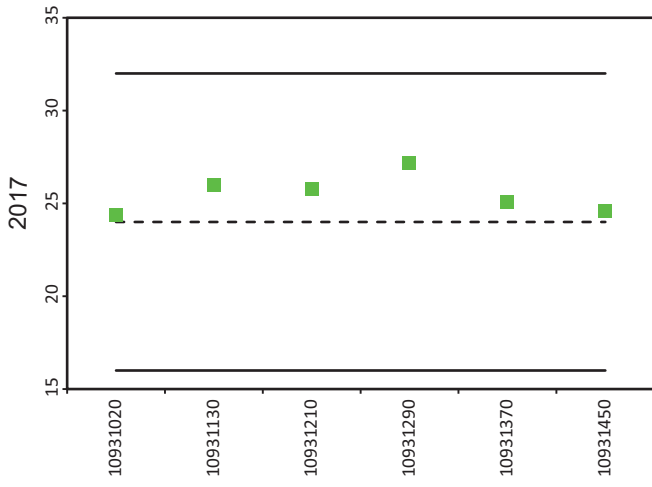
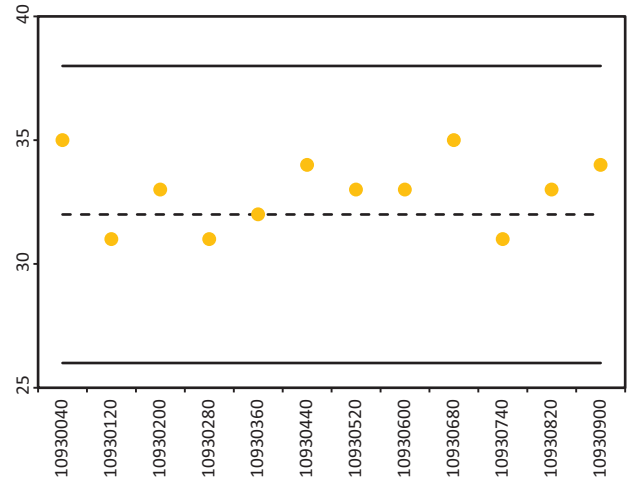
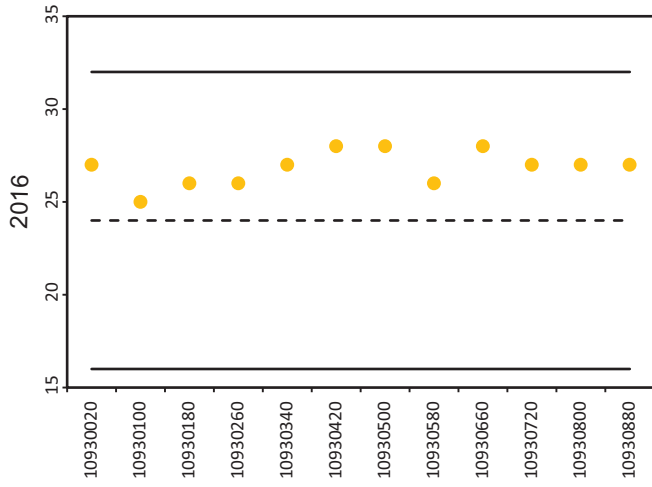
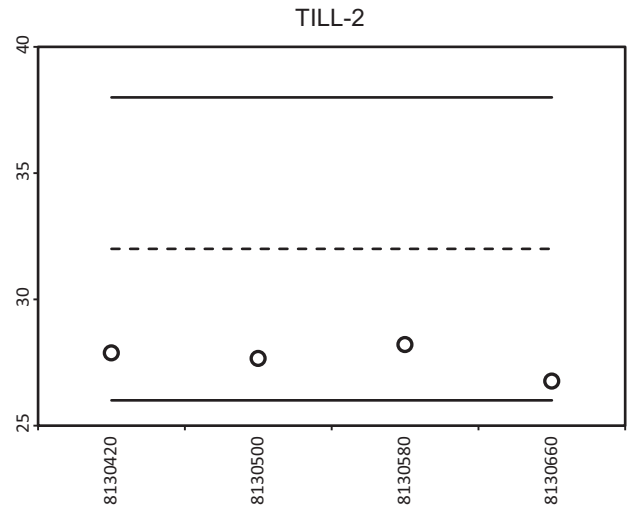
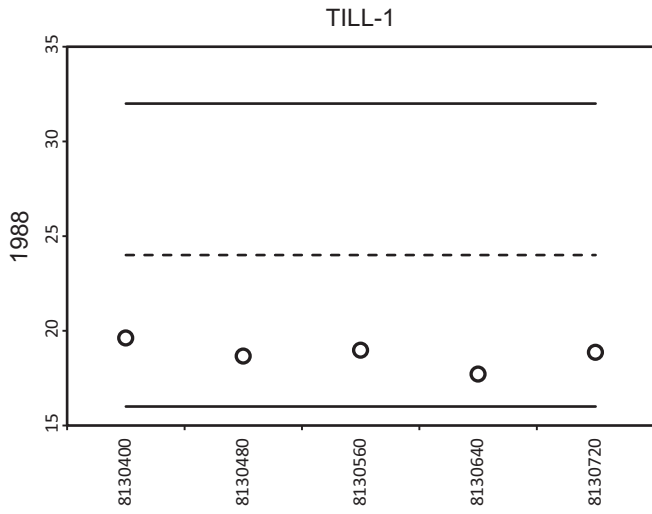
Nb (Multiacid ICP-OES)



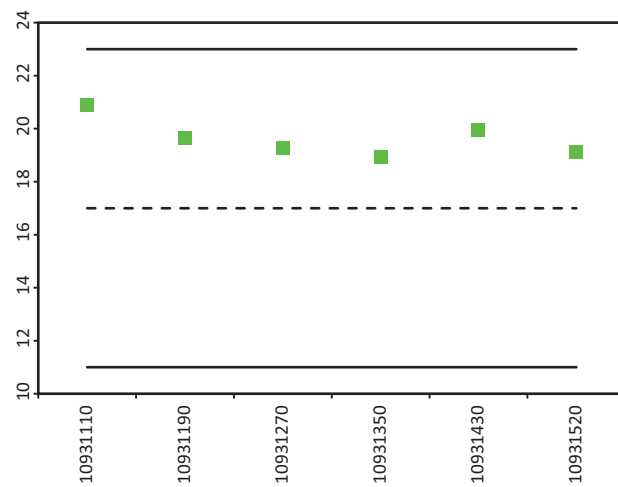
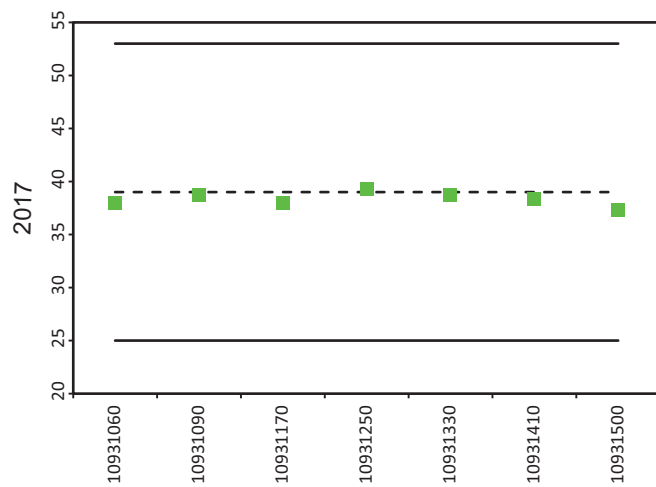
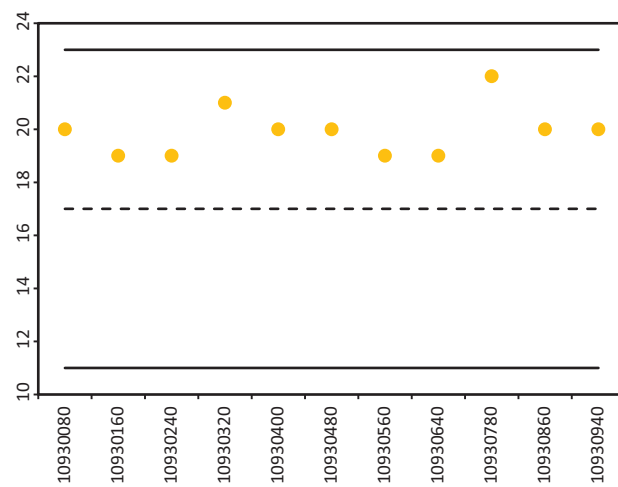
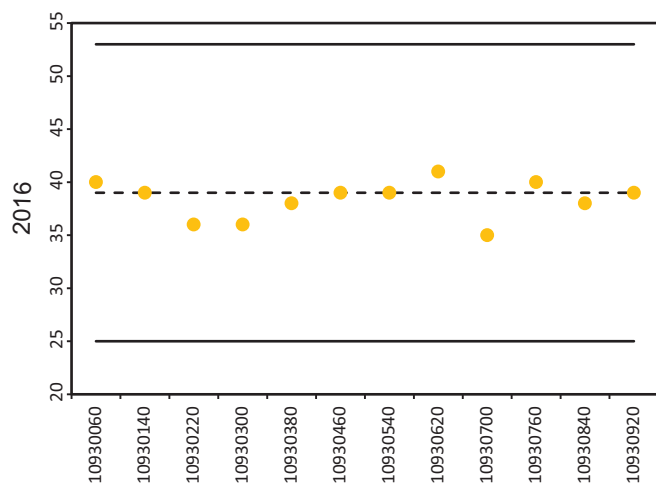
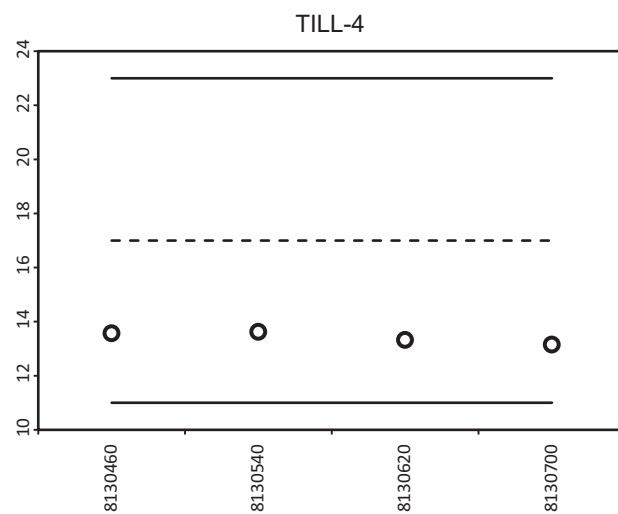
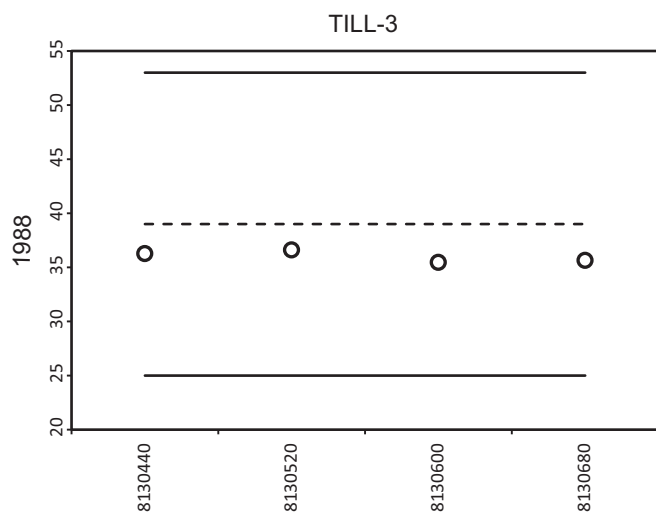
Nb (Multiacid ICP-OES)



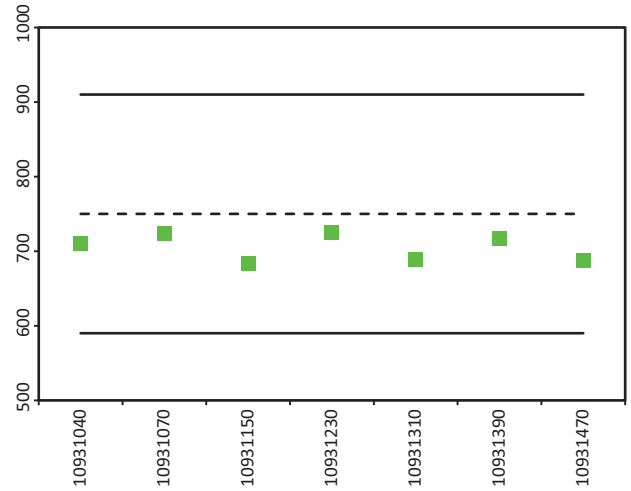
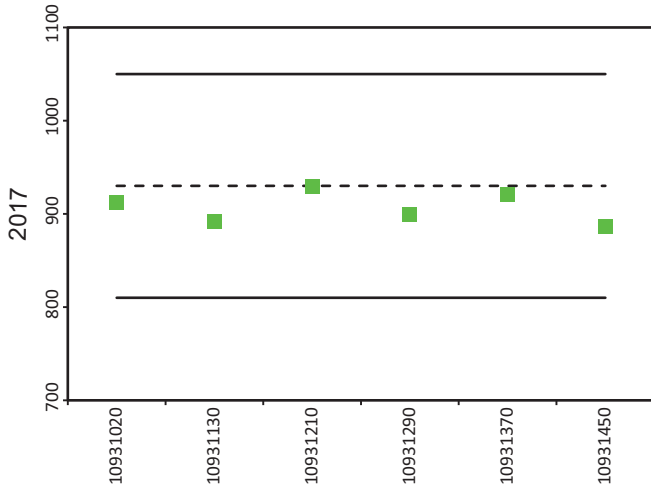
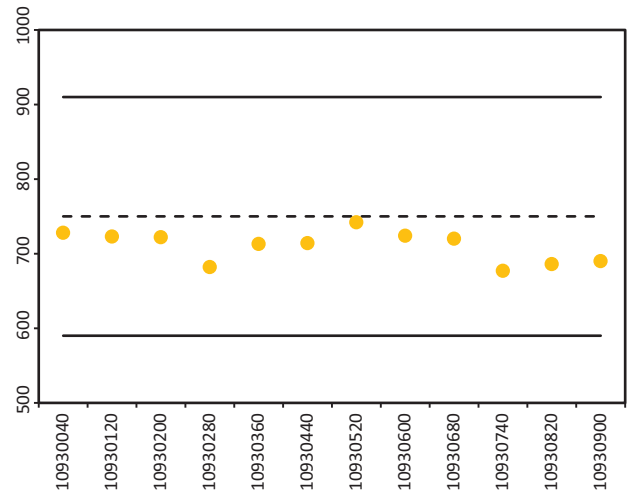
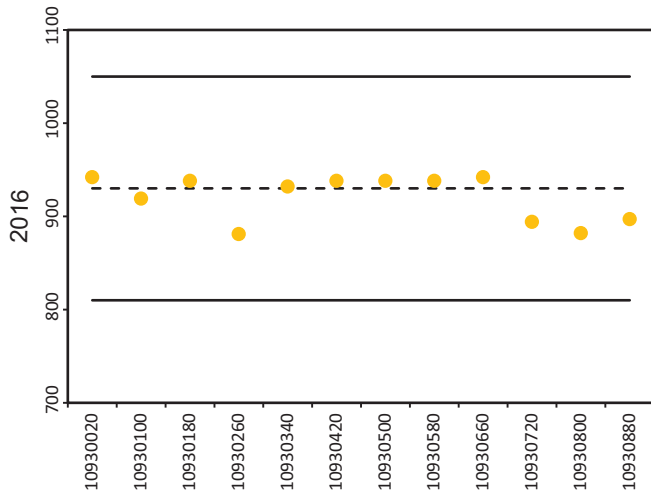
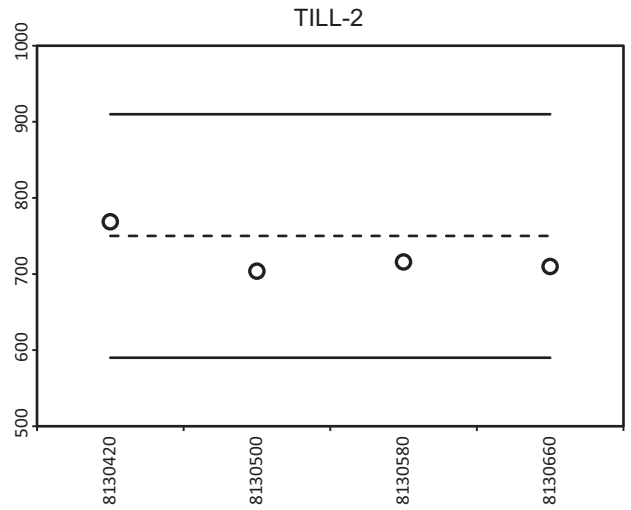
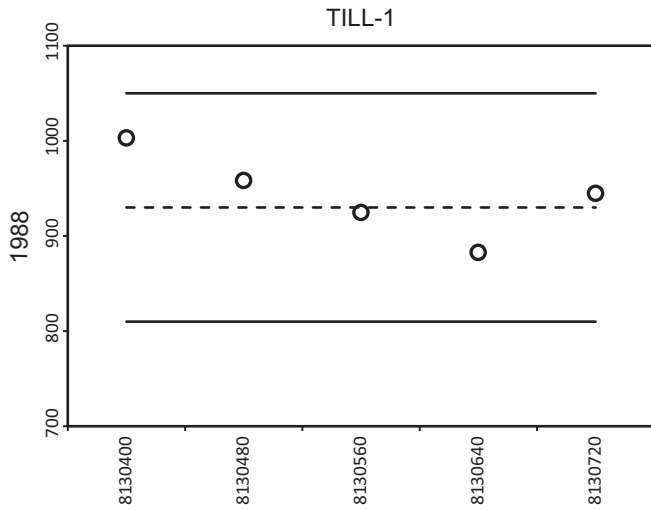
Ni (Multiacid ICP-OES)



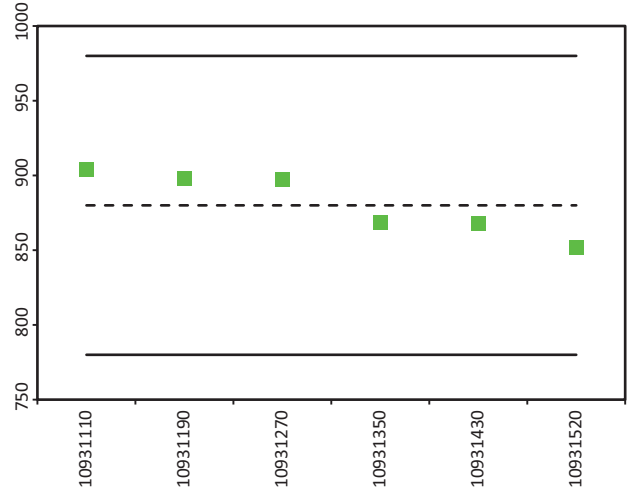
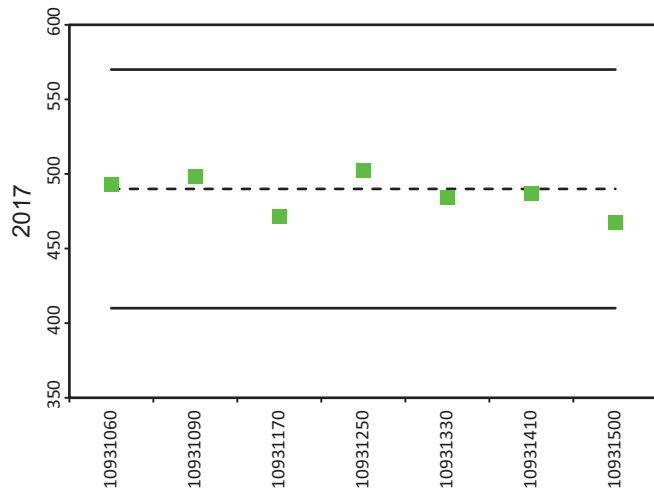
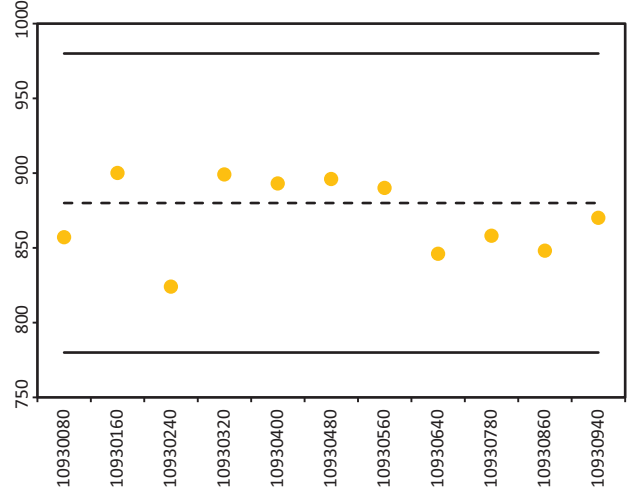
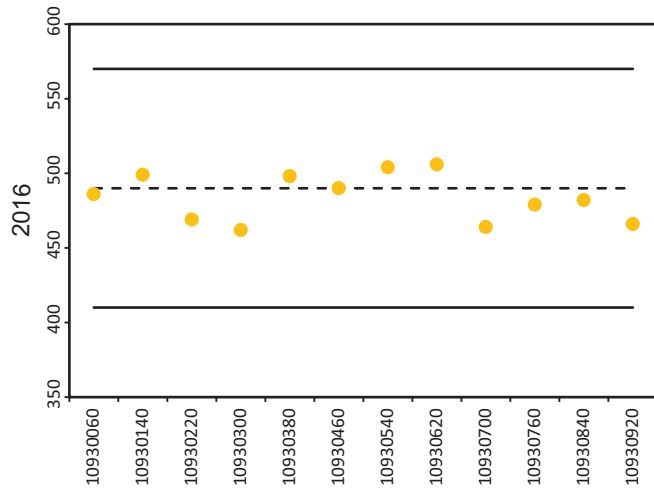
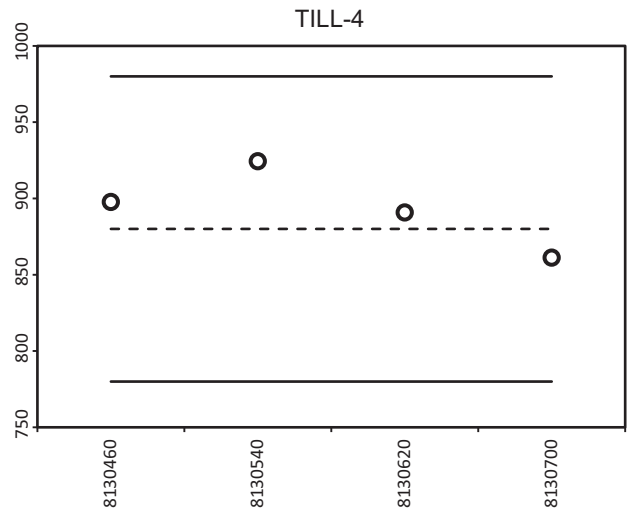
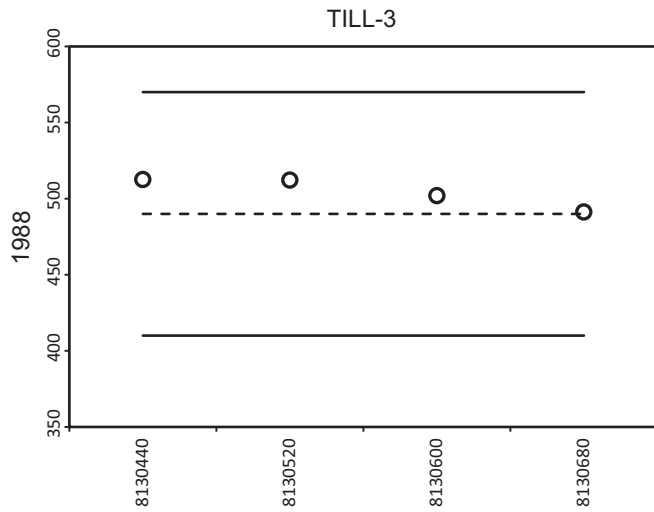
Ni (Multiacid ICP-OES)



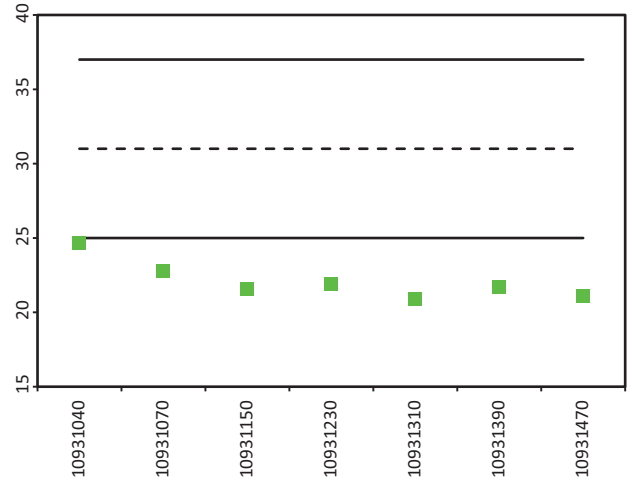
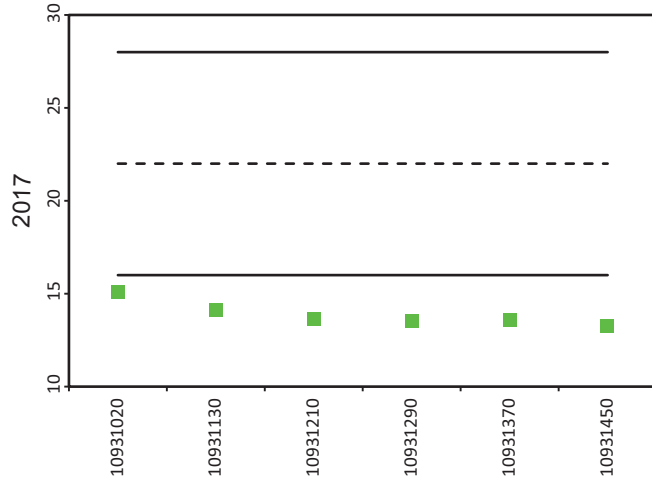
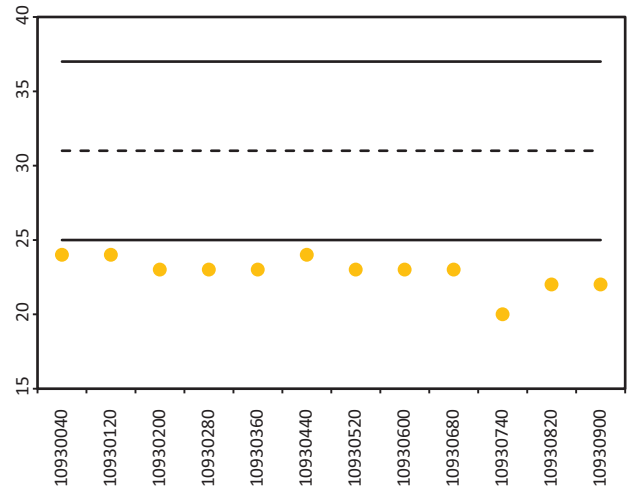
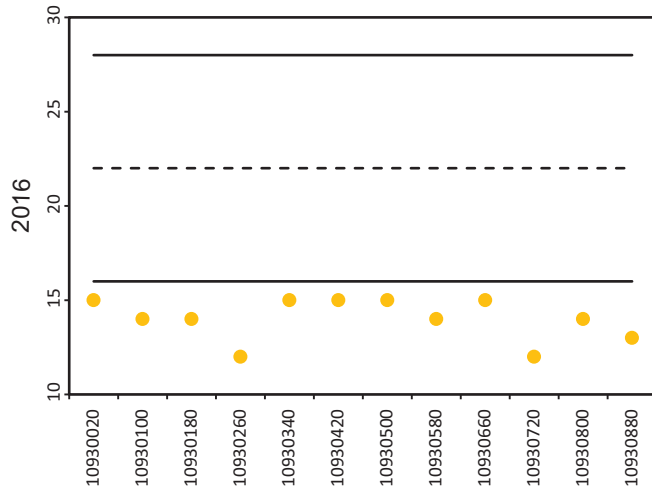
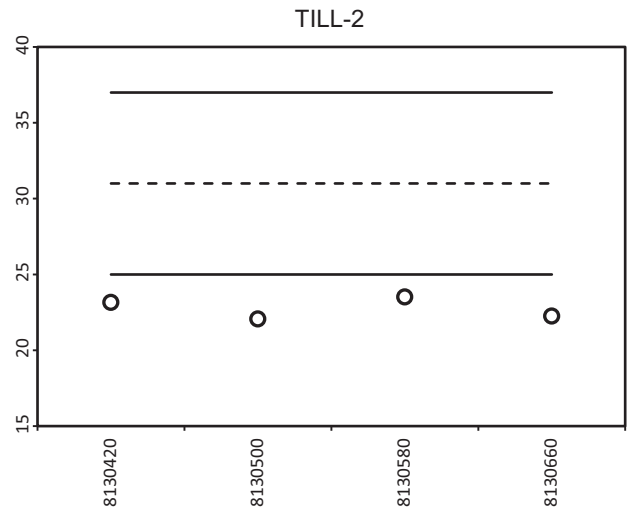
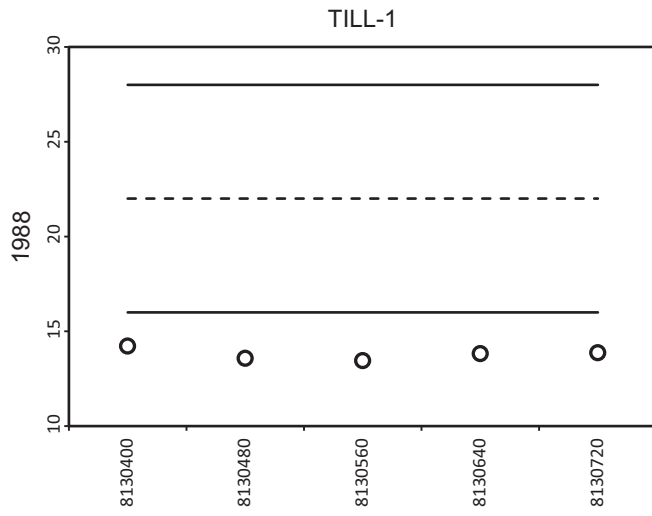
P (Multiacid ICP-OES)



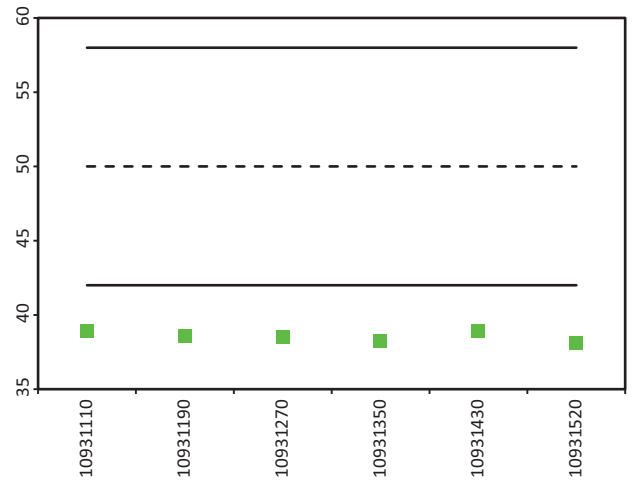
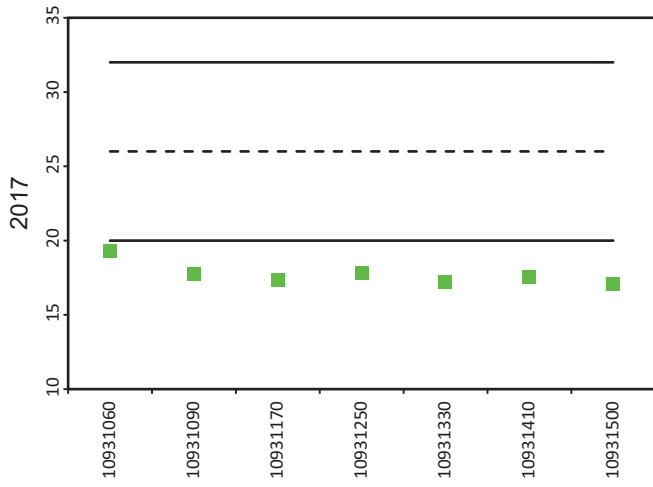
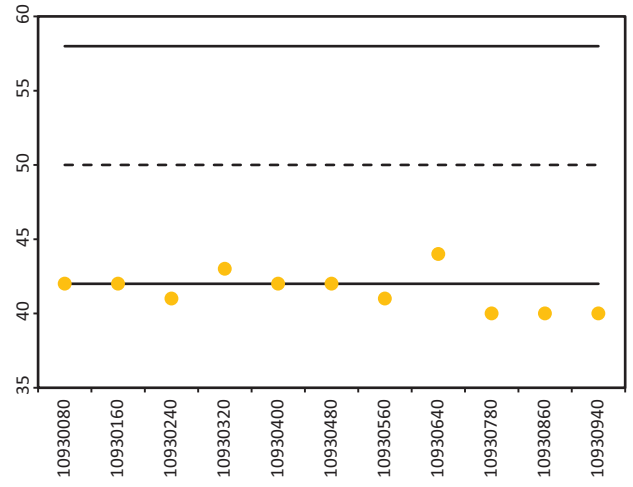
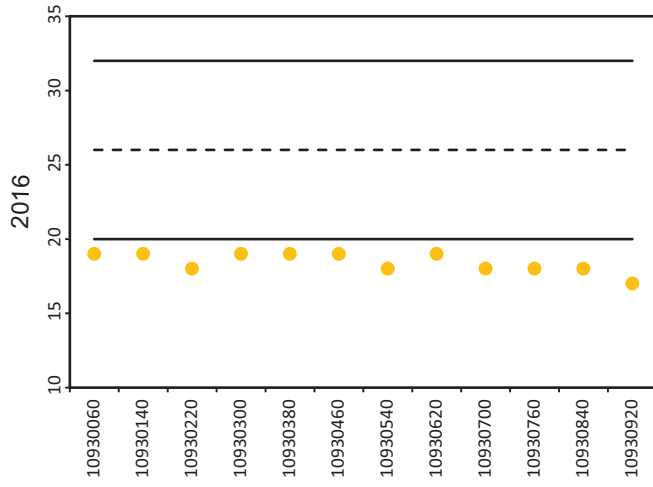
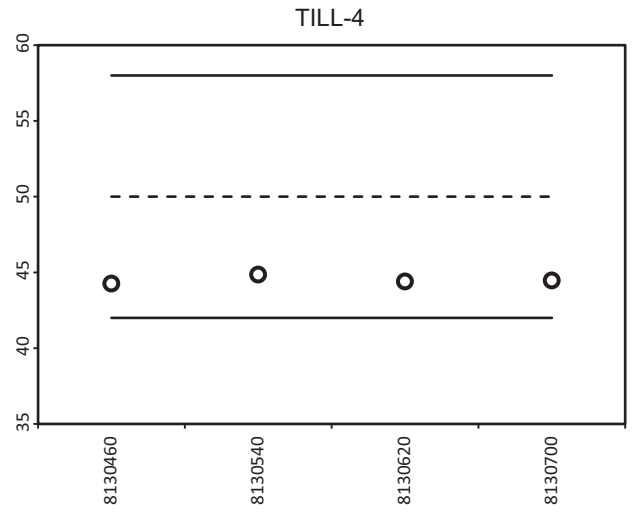
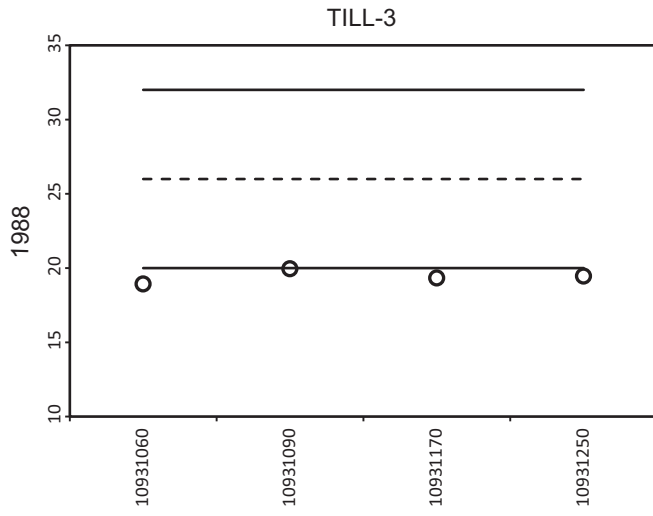
P (Multiacid ICP-OES)



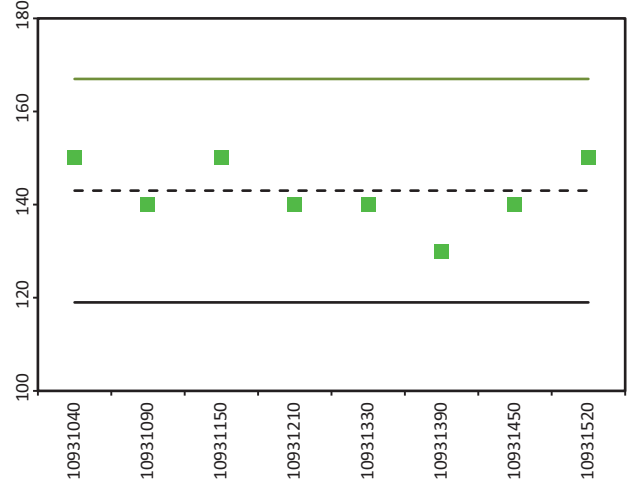
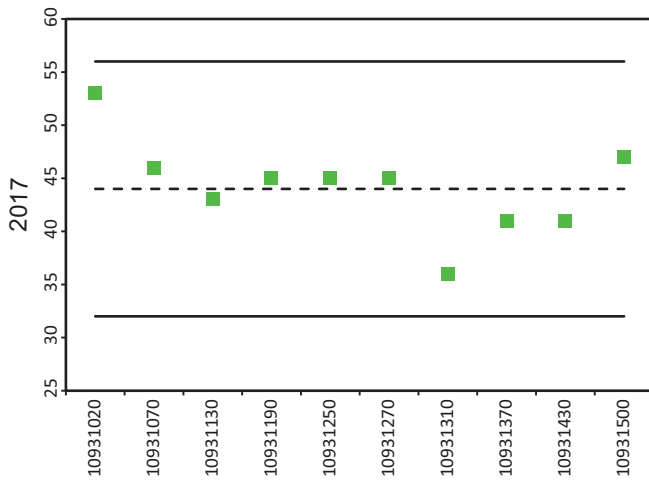
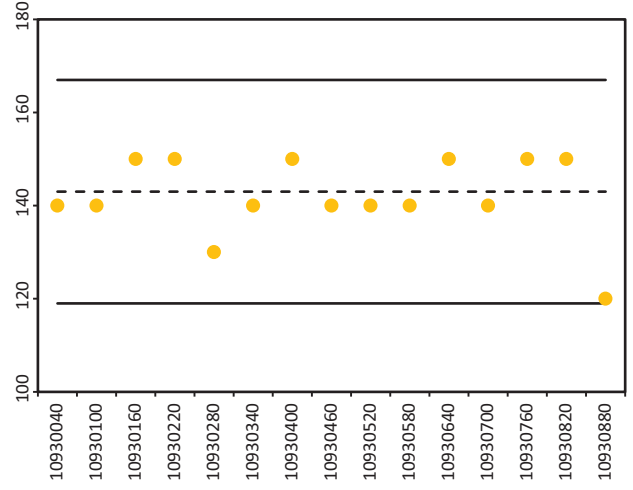
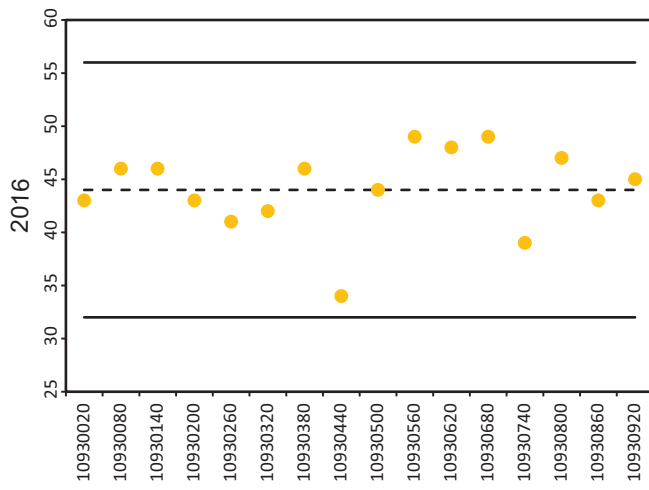
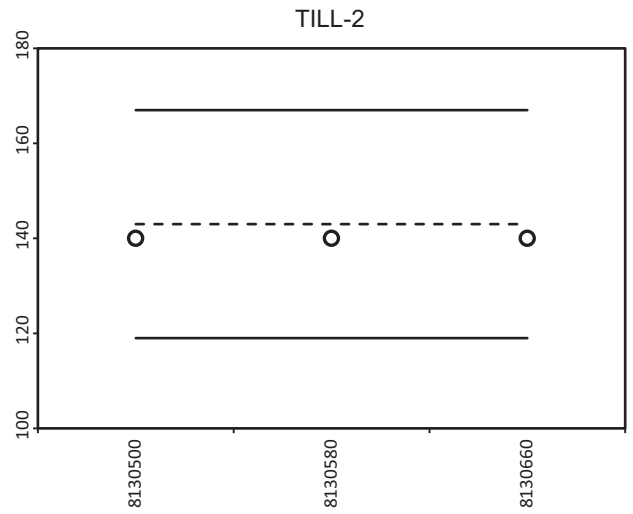
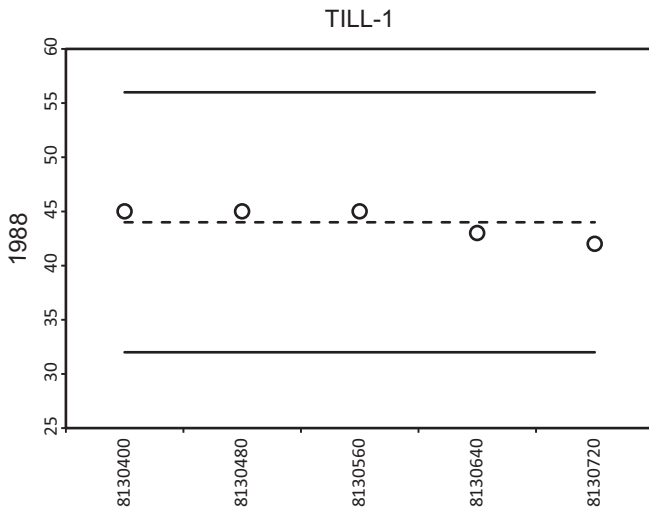
Pb (Multiacid ICP-OES)



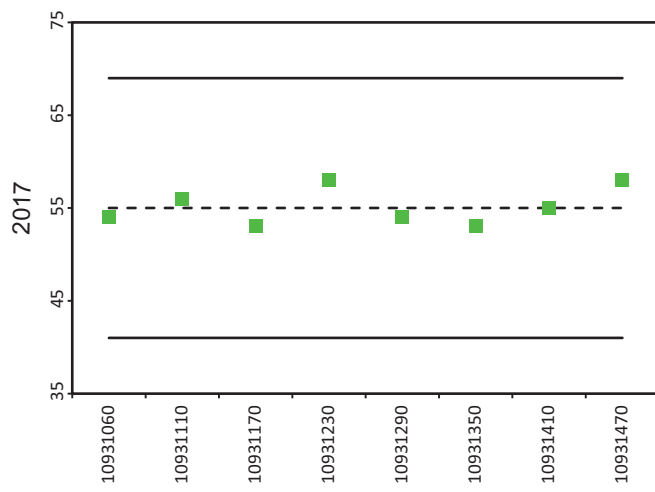
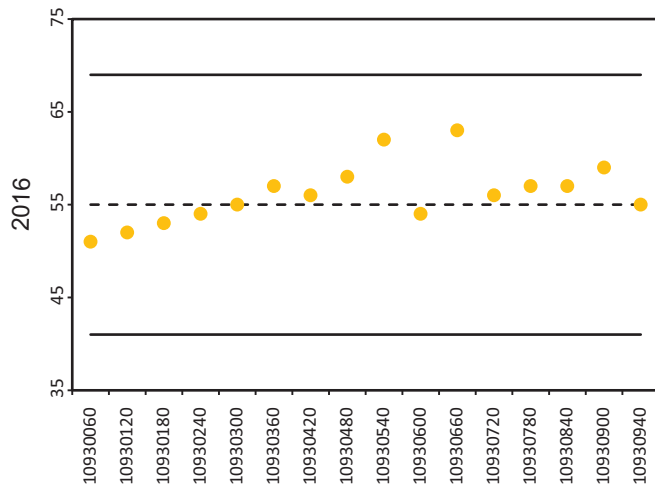
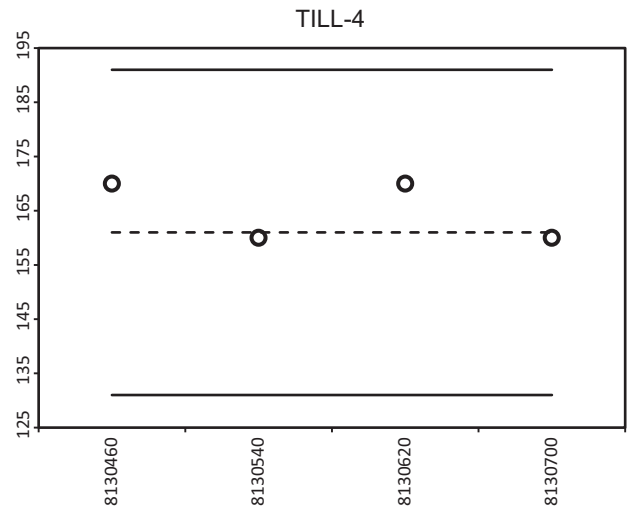
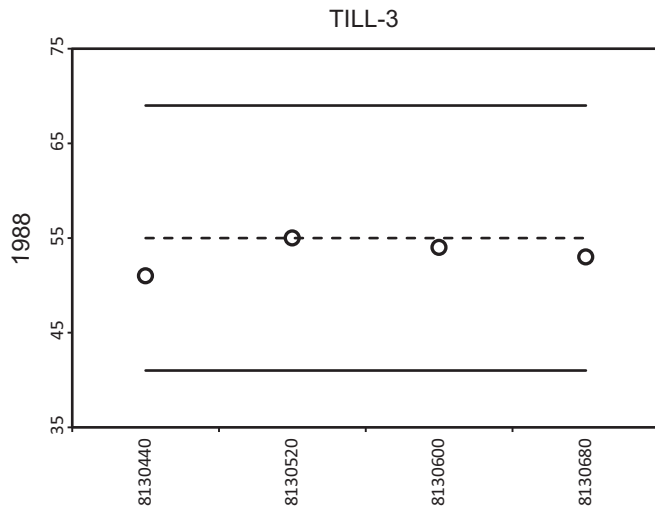
Pb (Multiacid ICP-OES)



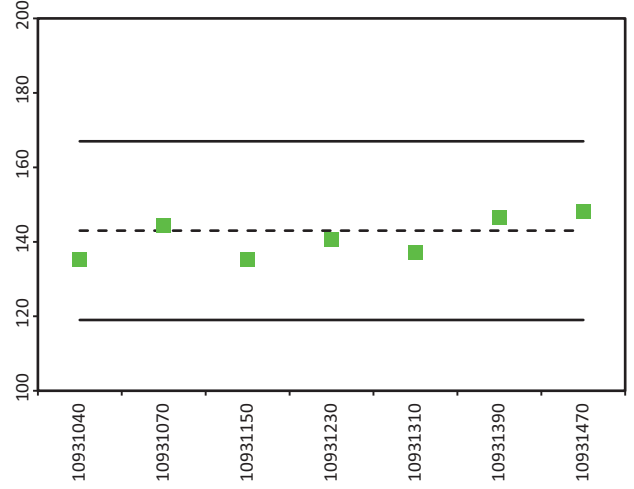
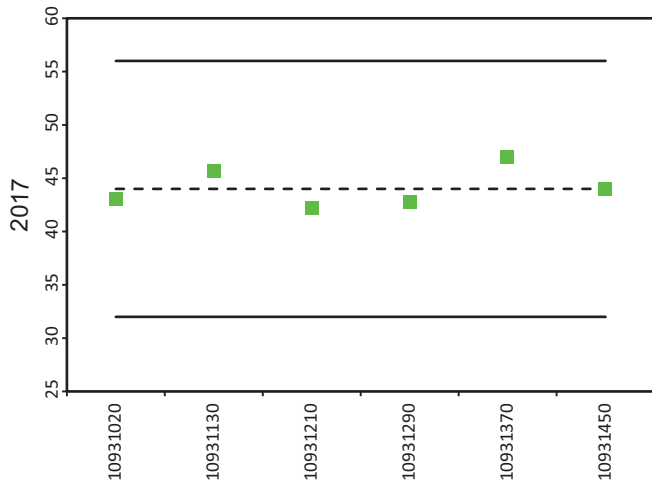
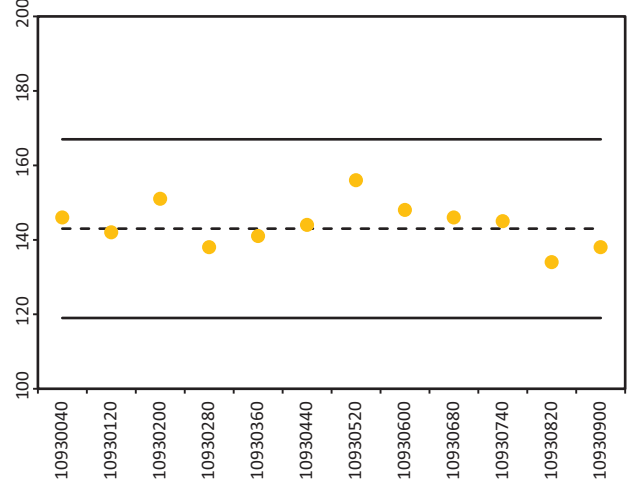
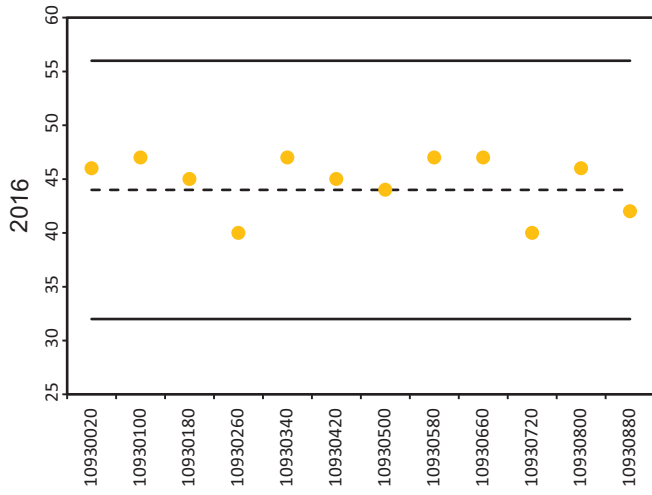
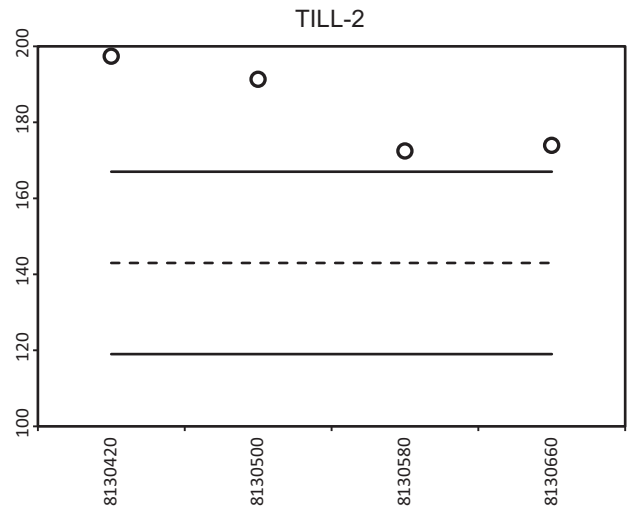
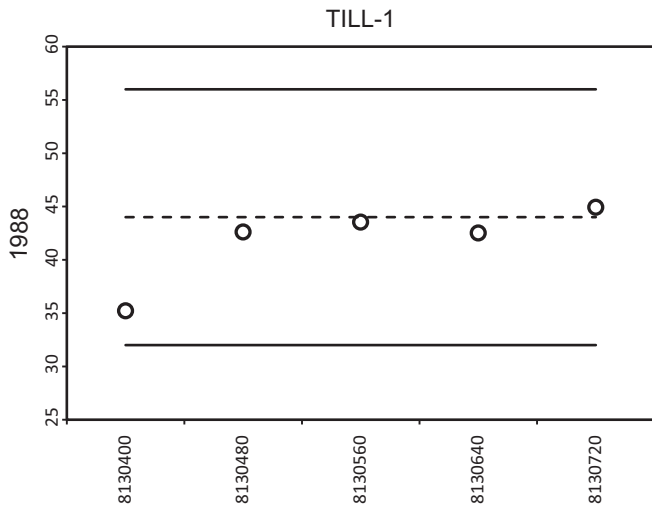
Rb (INAA)



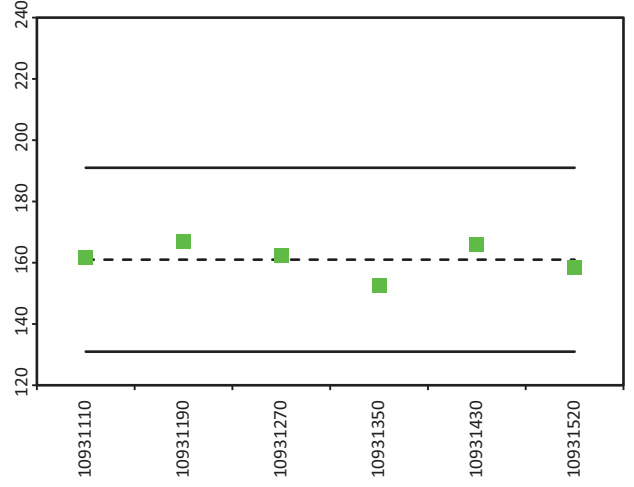
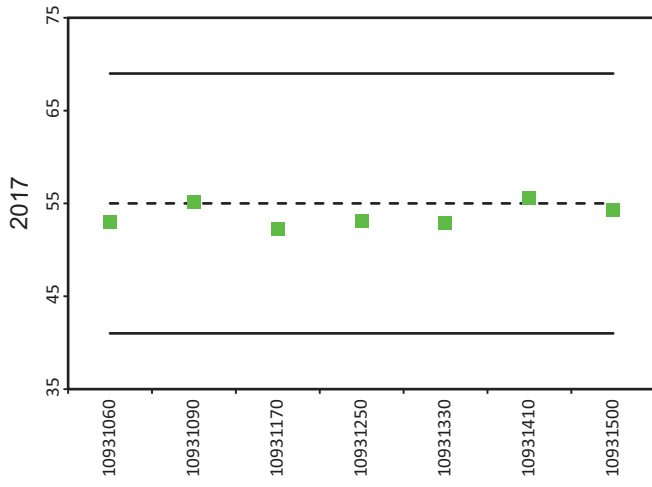
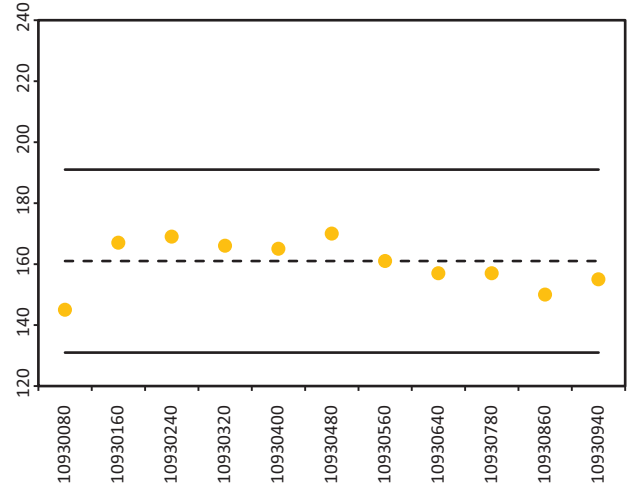
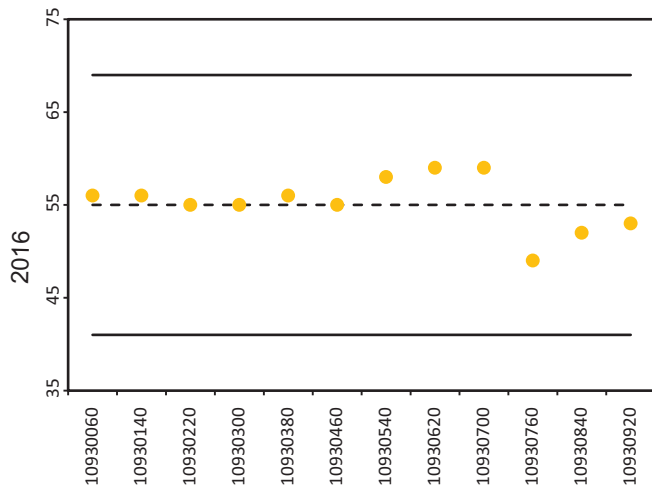
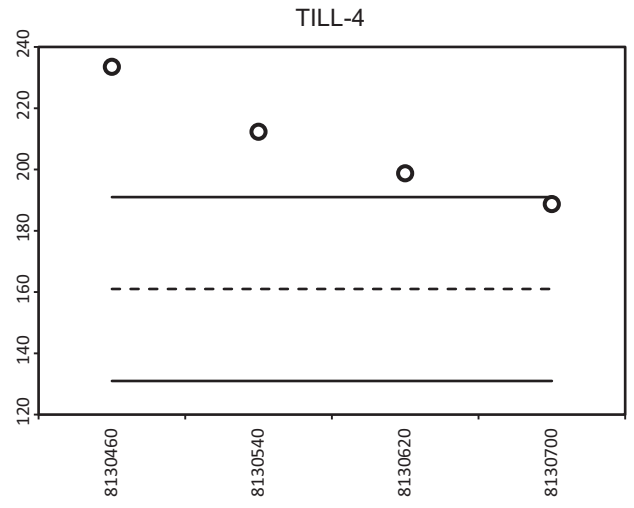
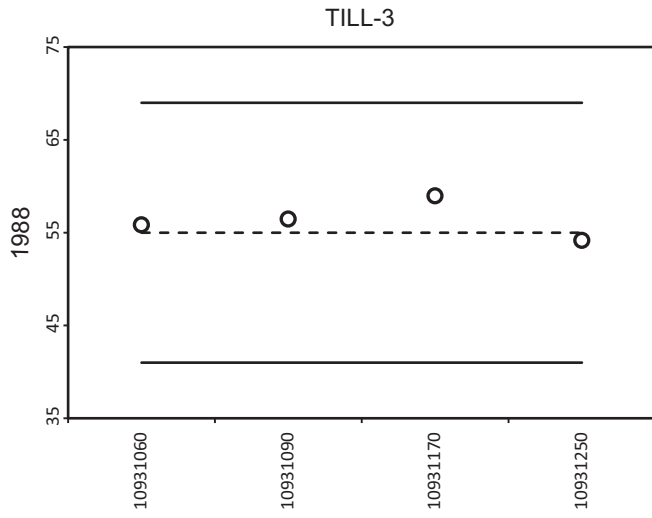
Rb (INAA)



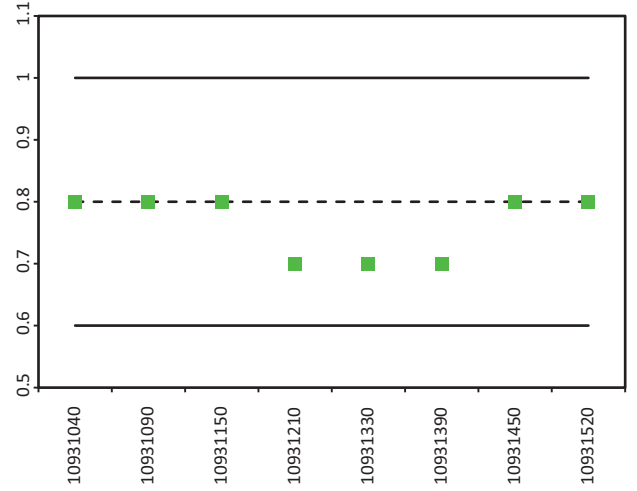
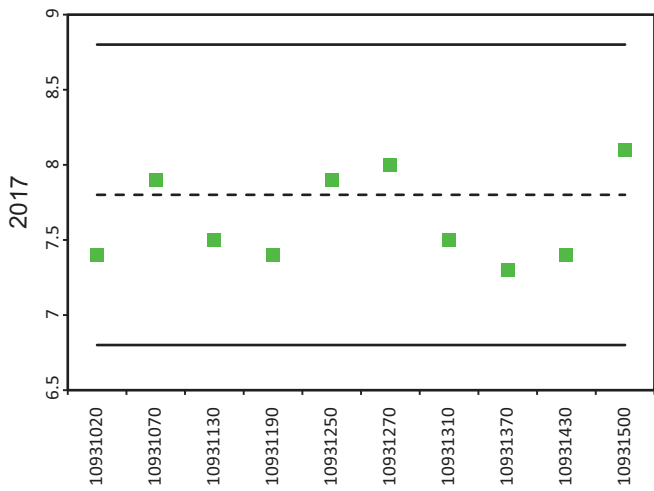
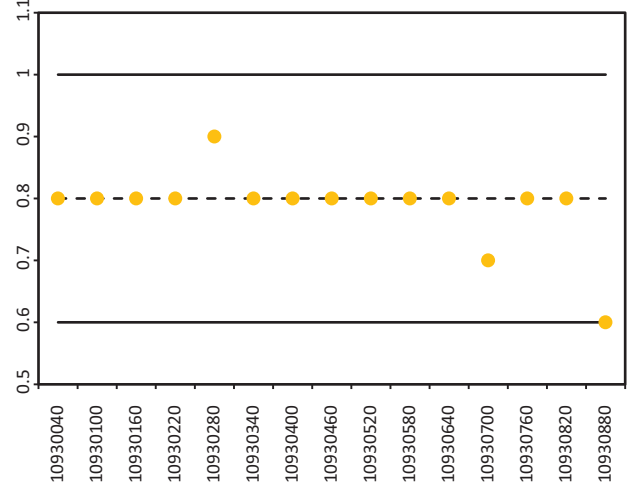
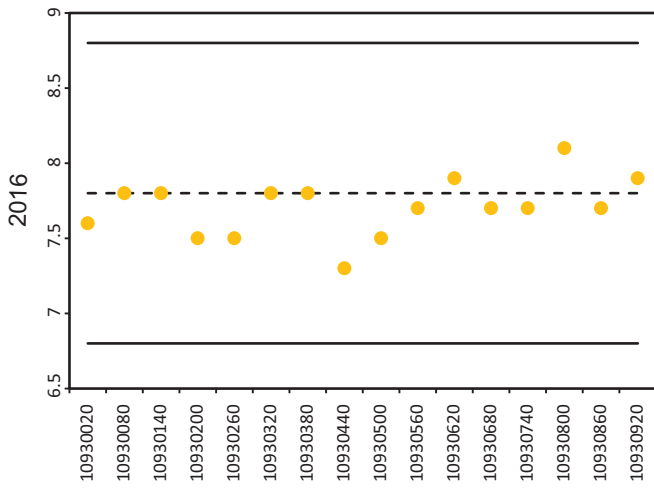
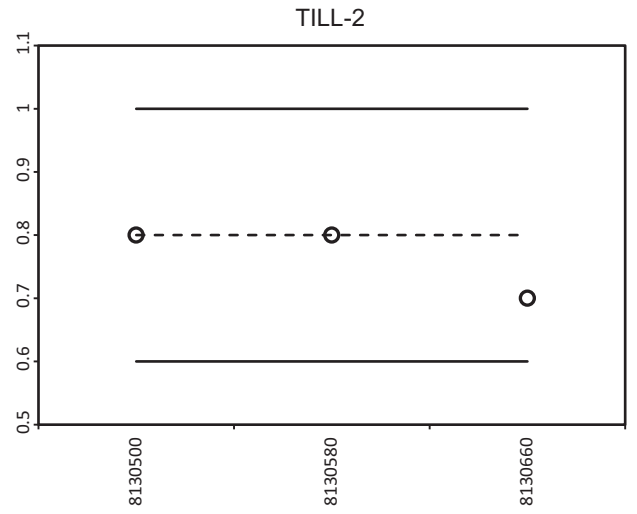
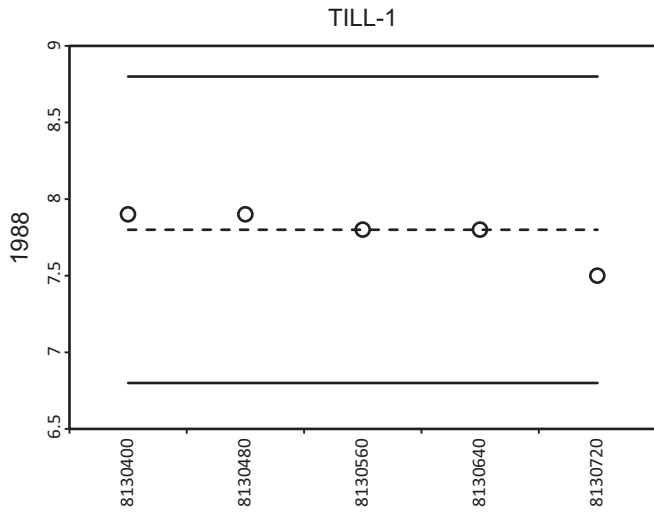
Rb (Multiacid ICP-OES)



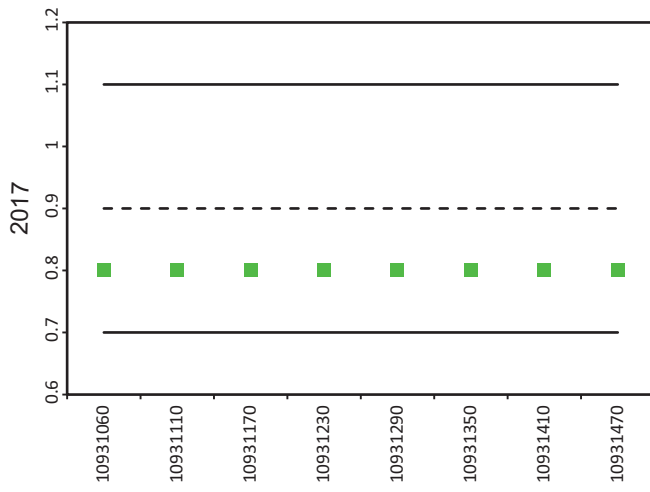
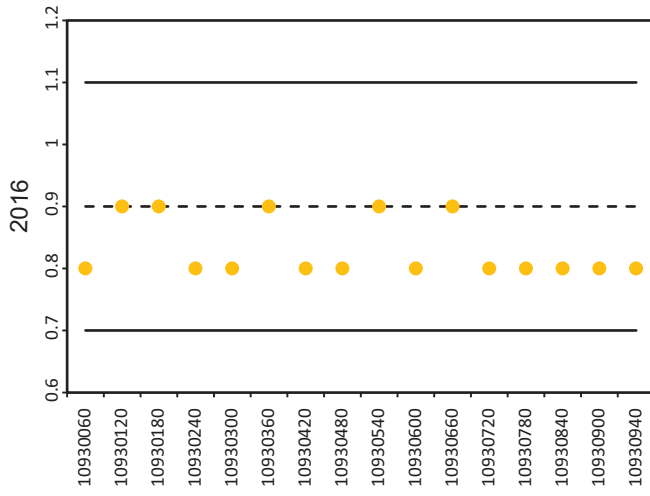
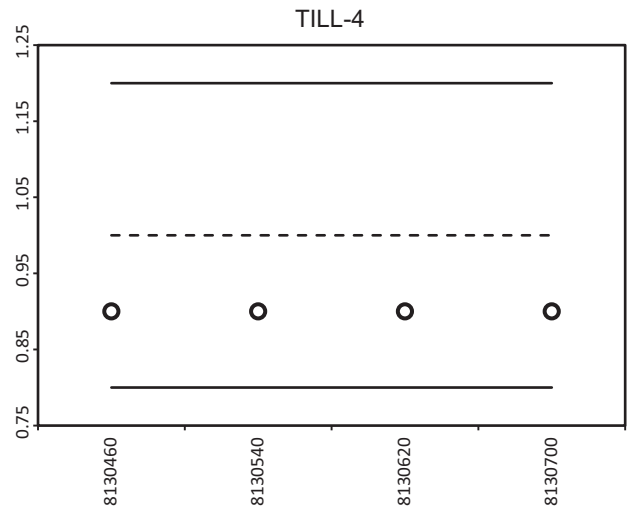
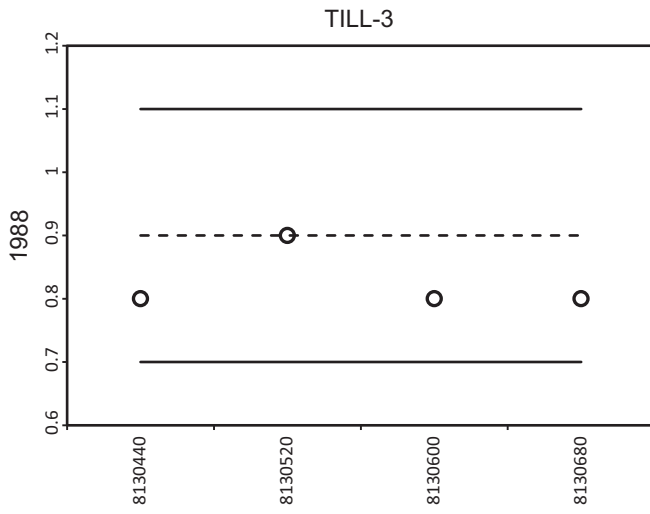
Rb (Multiacid ICP-OES)



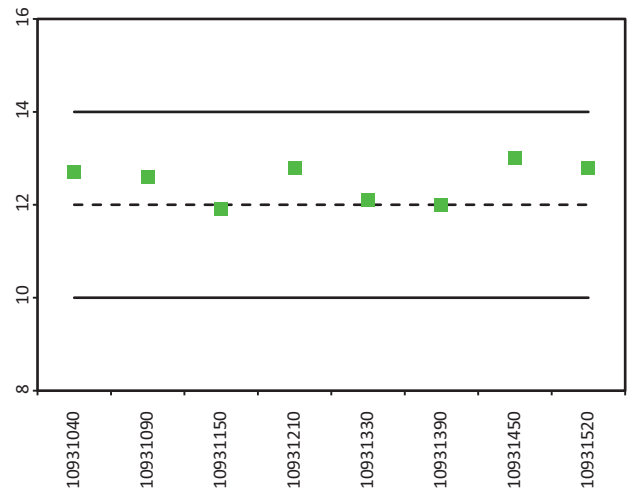
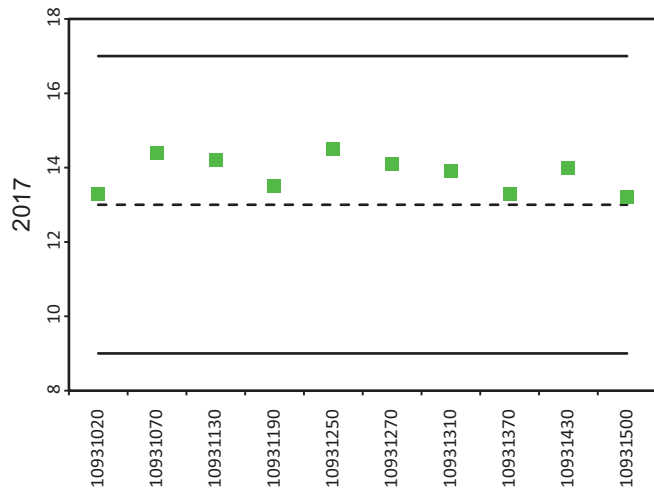
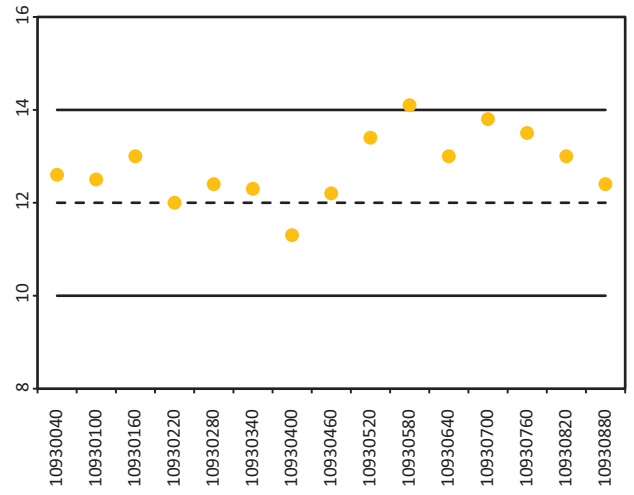
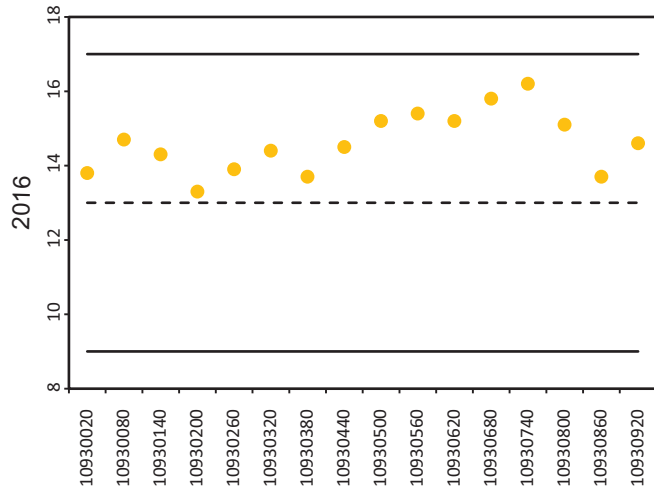
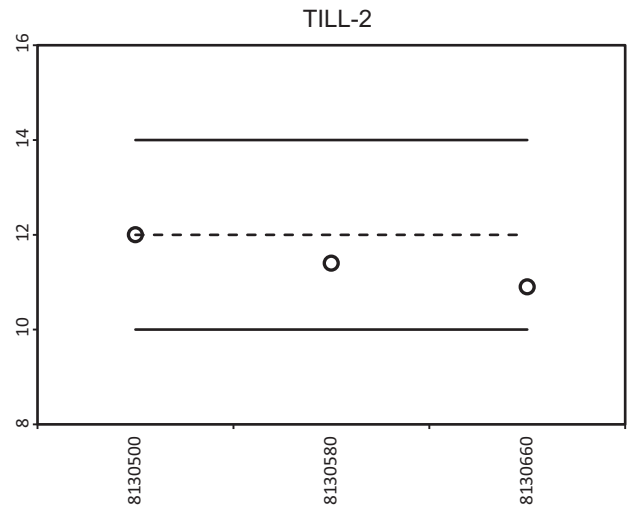
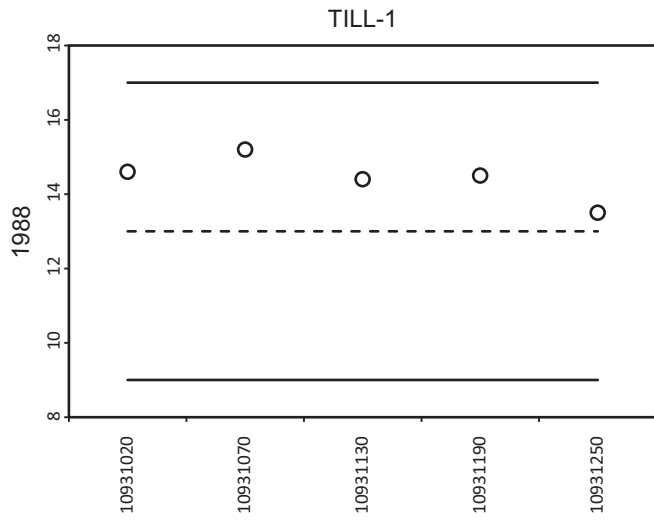
Sb (INAA)



Sb (INAA)

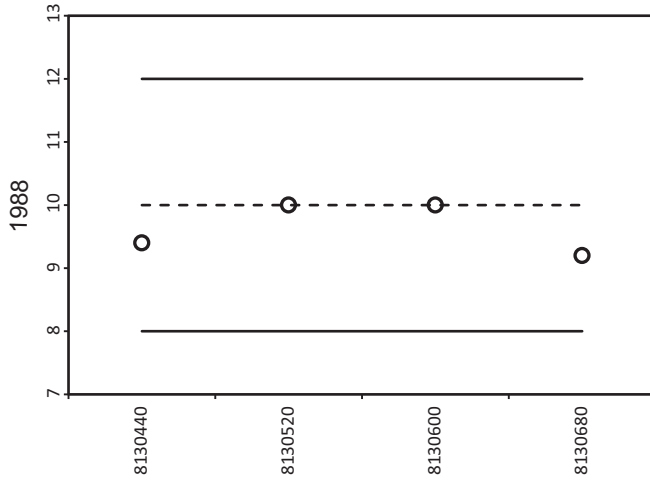


Sc (INAA)

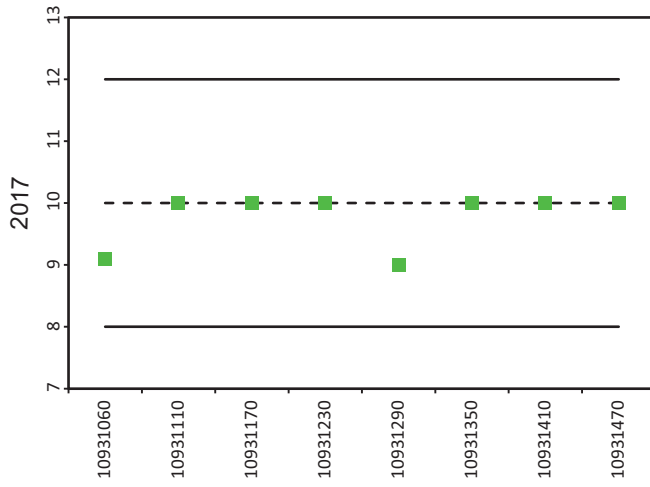
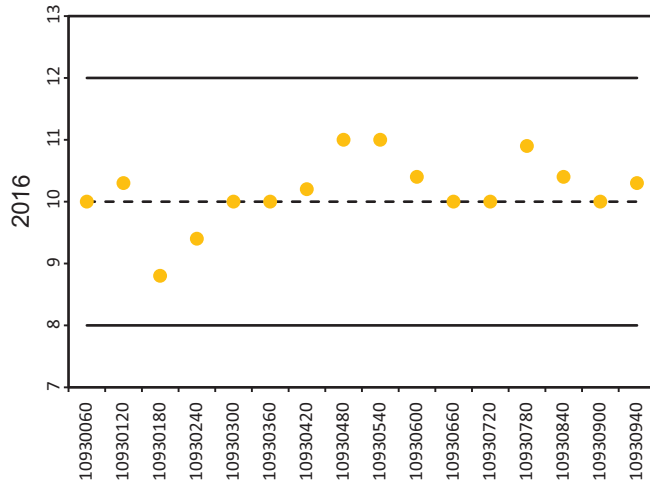
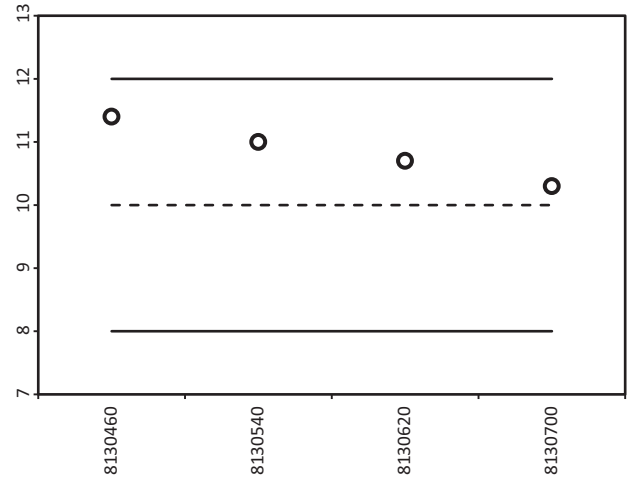


Sc (INAA)

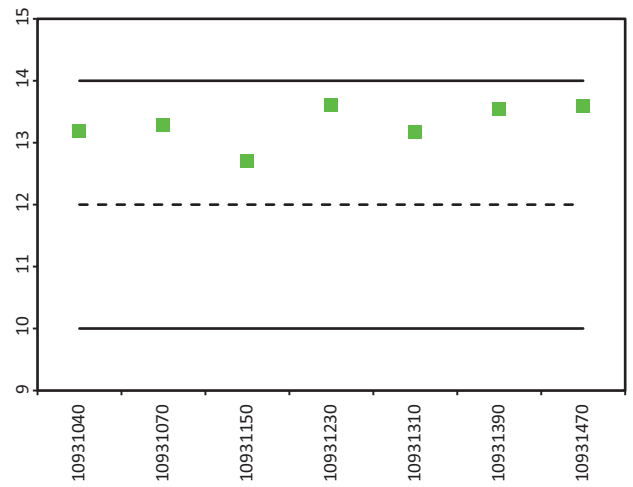
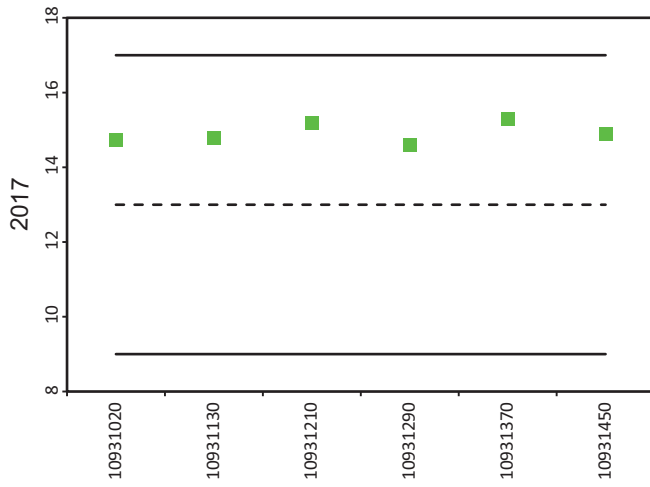
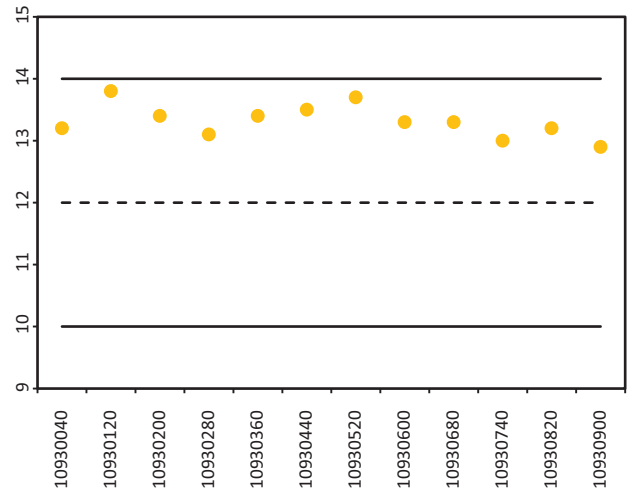
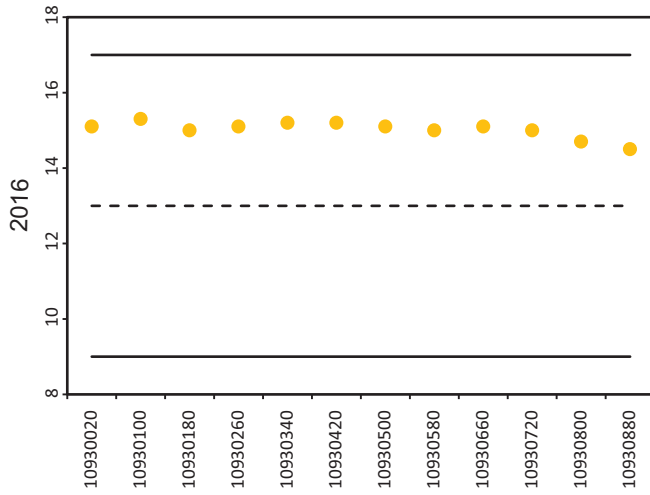
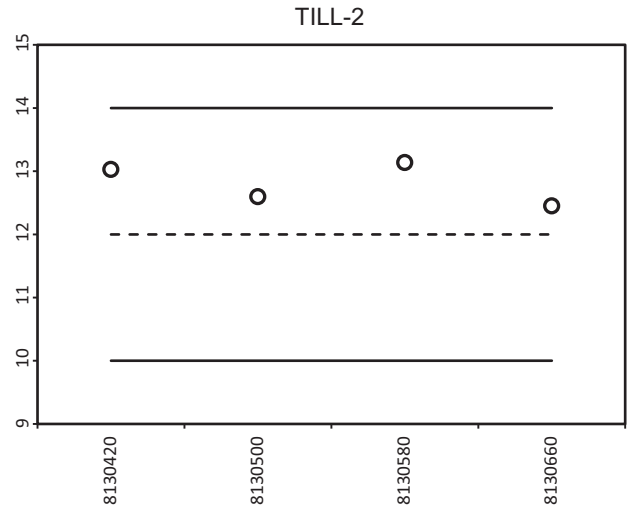
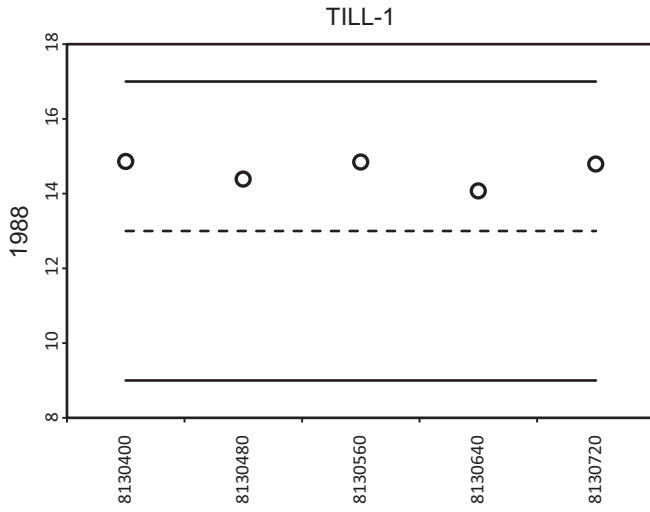
TILL-3



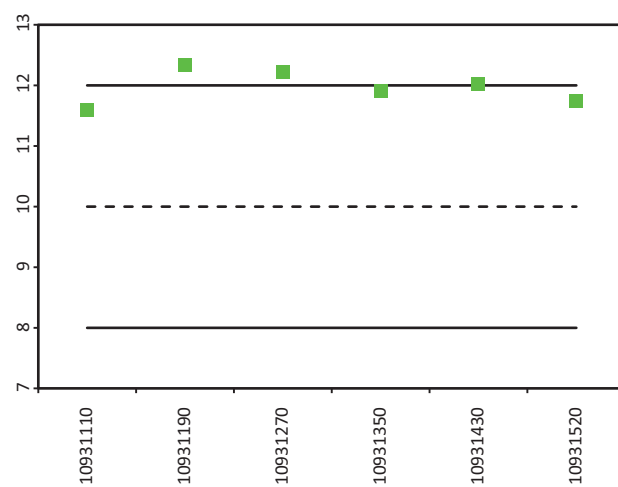
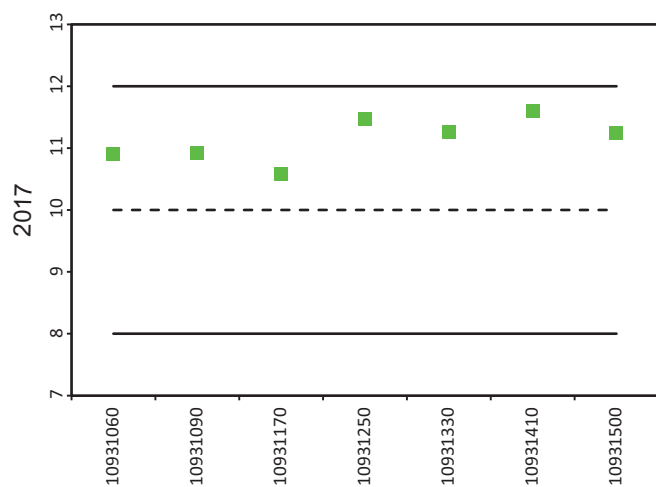
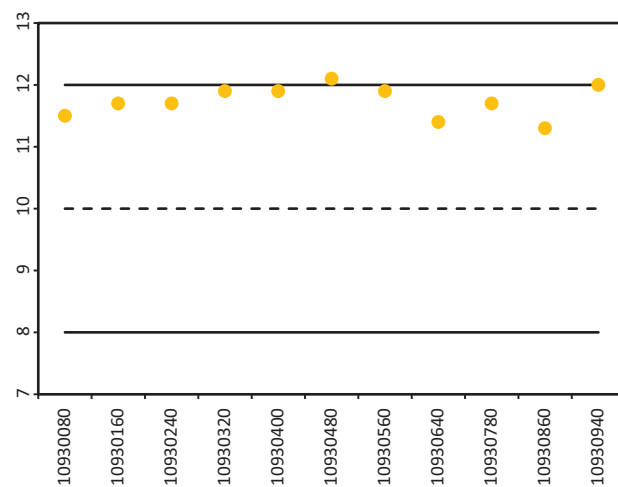
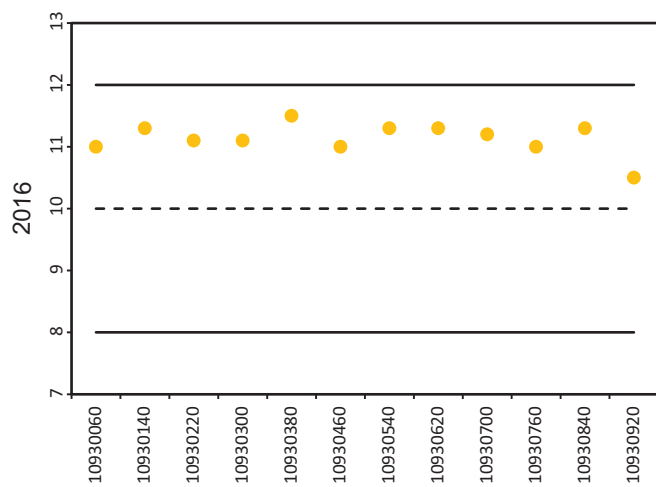
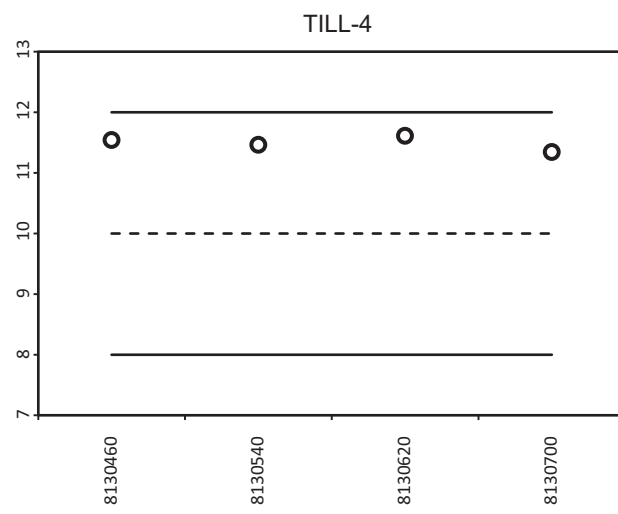
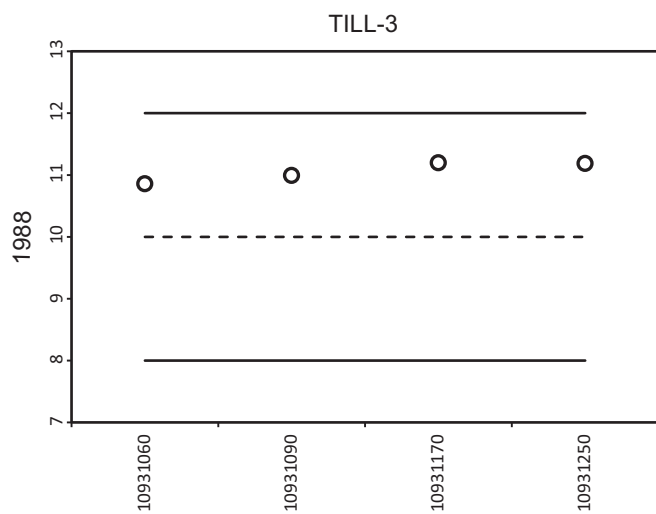
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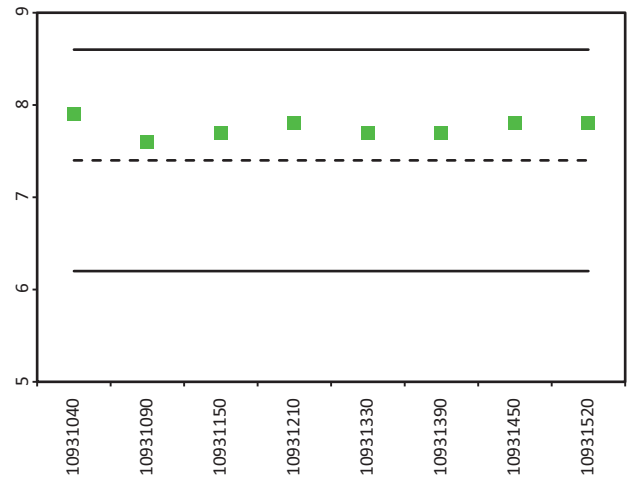
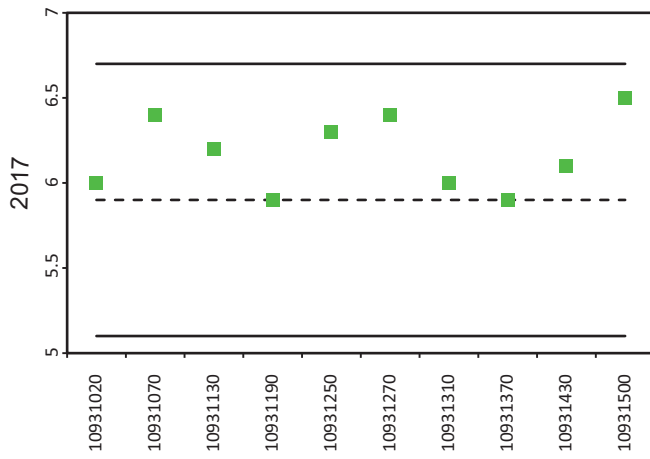
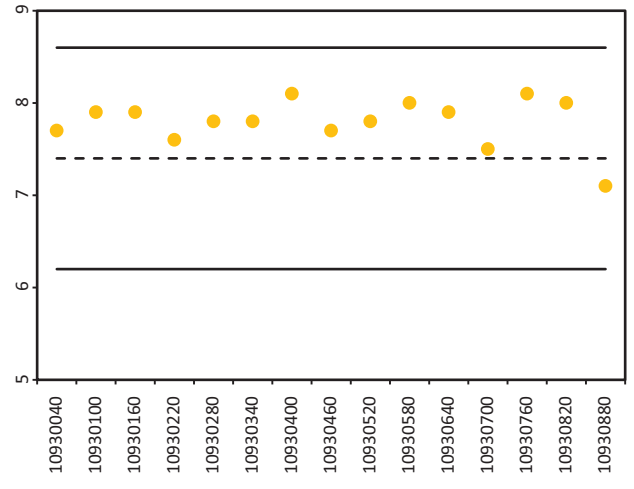
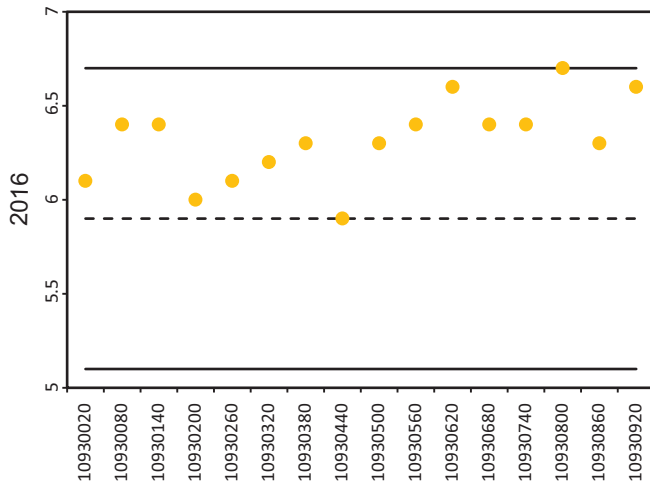
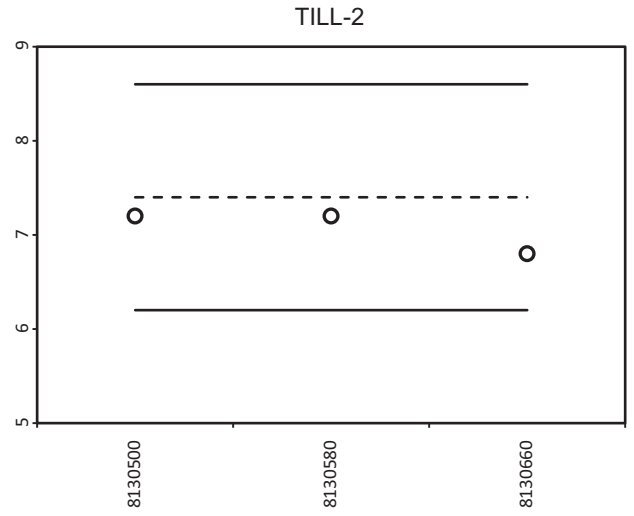
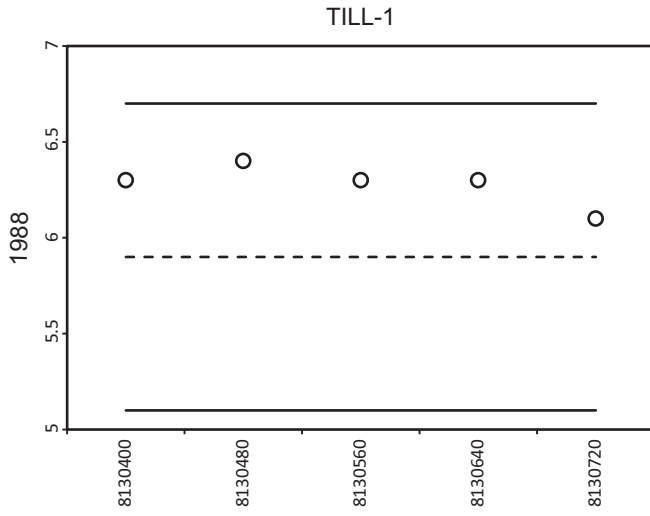
Sc (Multiacid ICP-OES)



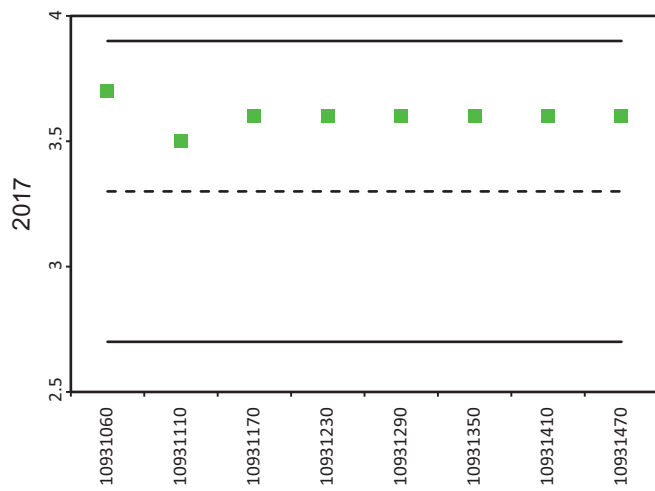
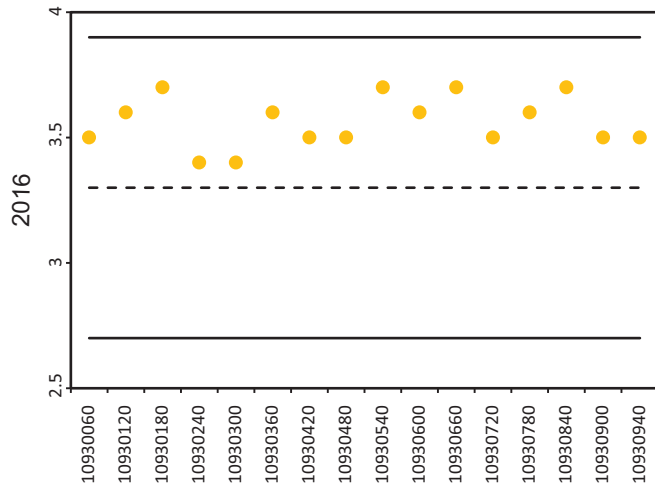
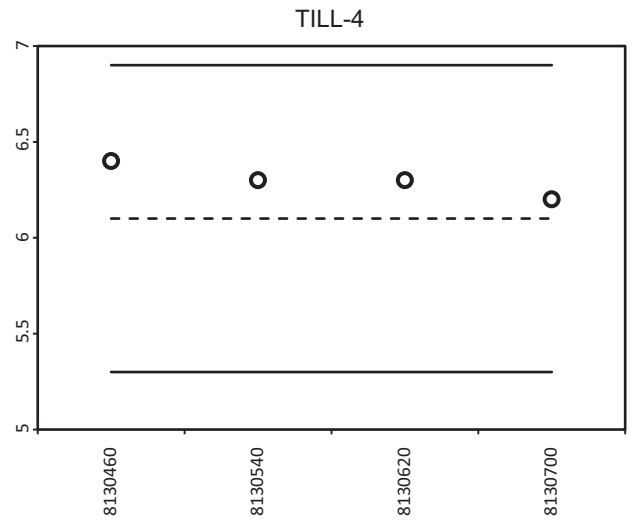
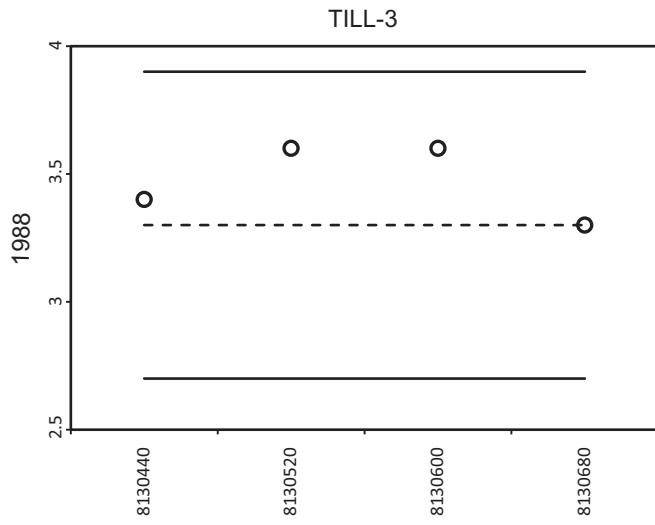
Sc (Multiacid ICP-OES)



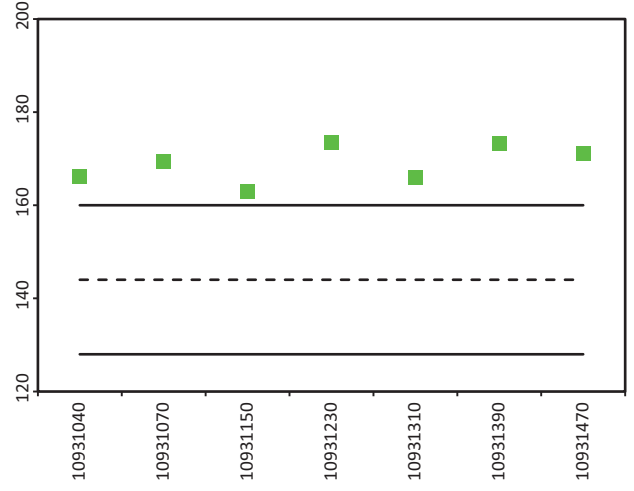
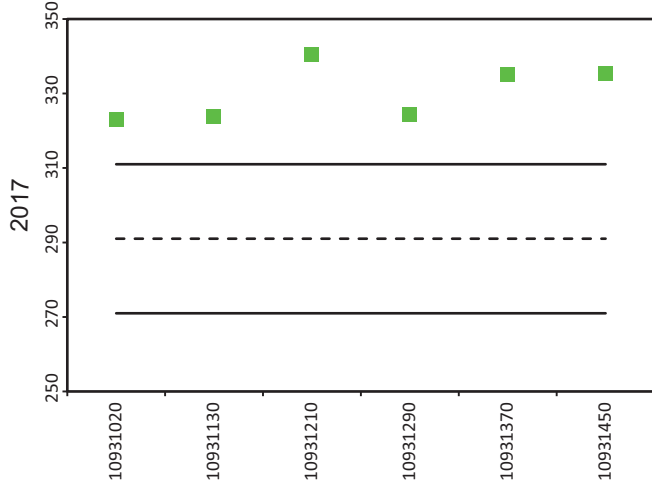
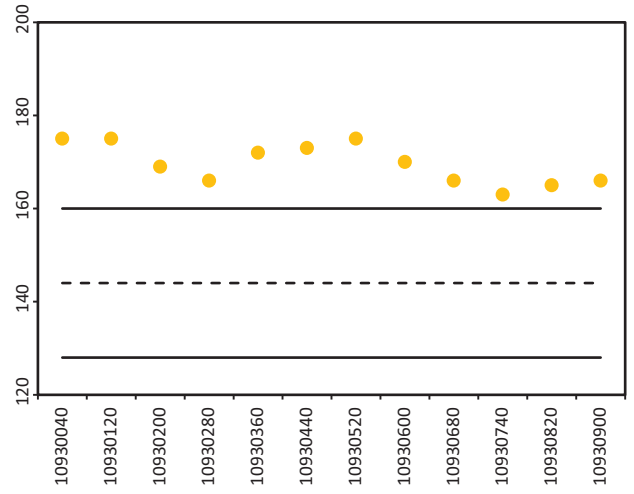
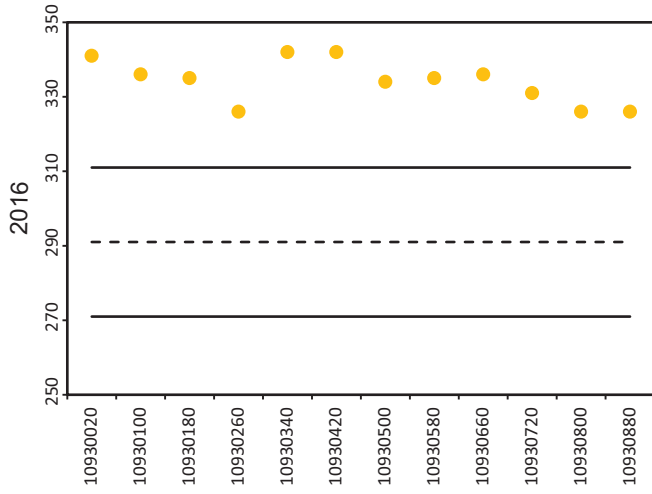
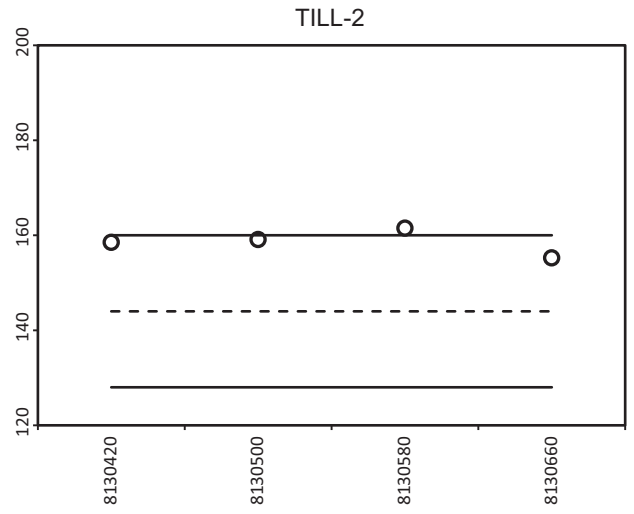
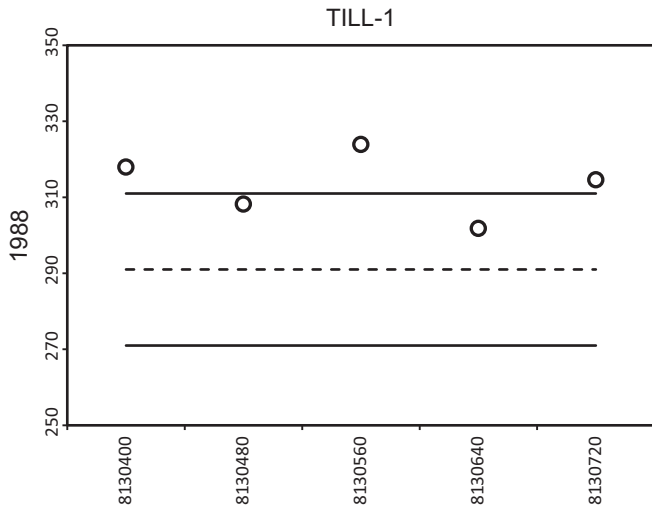
Sm (INAA)



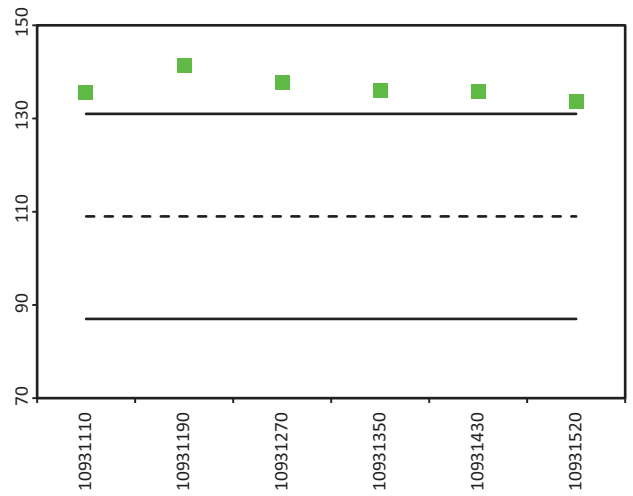
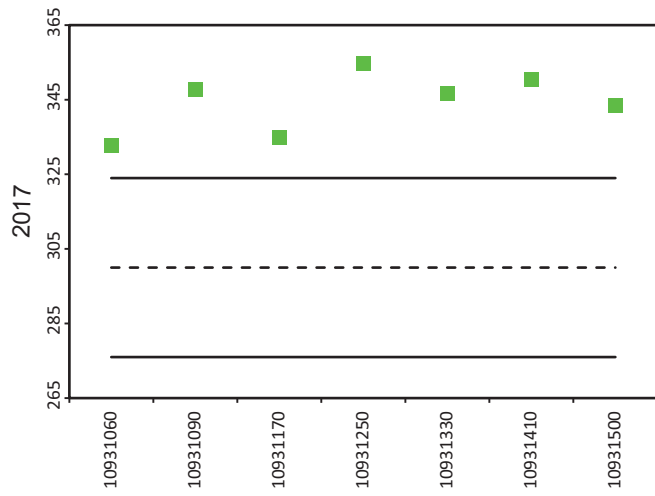
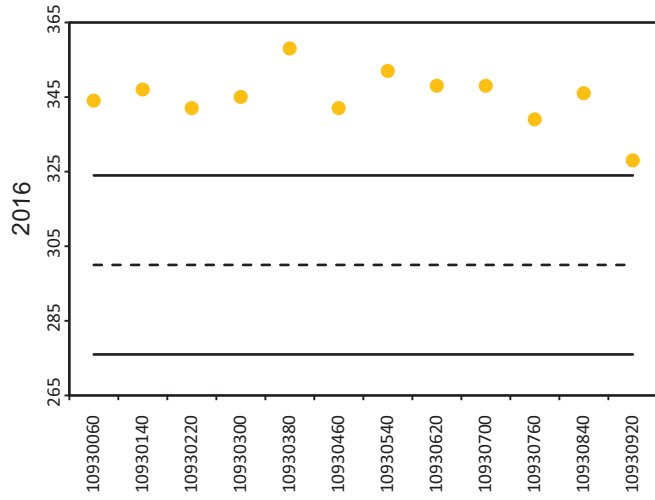
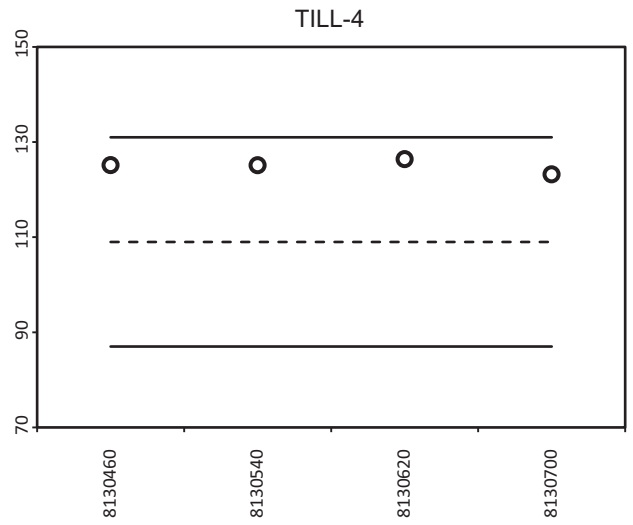
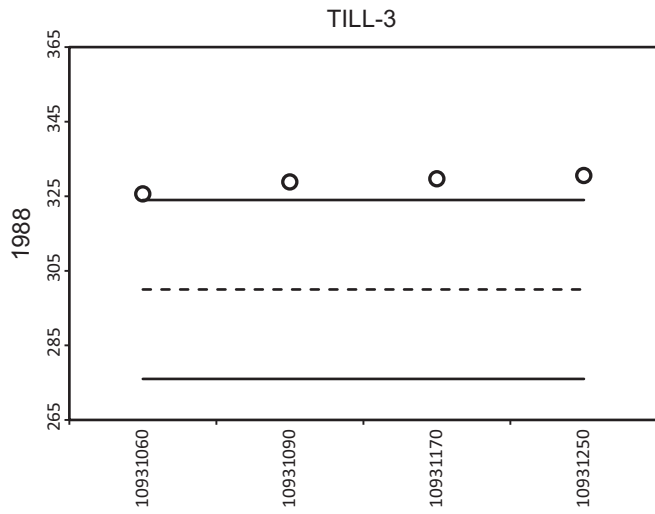
Sm (INAA)



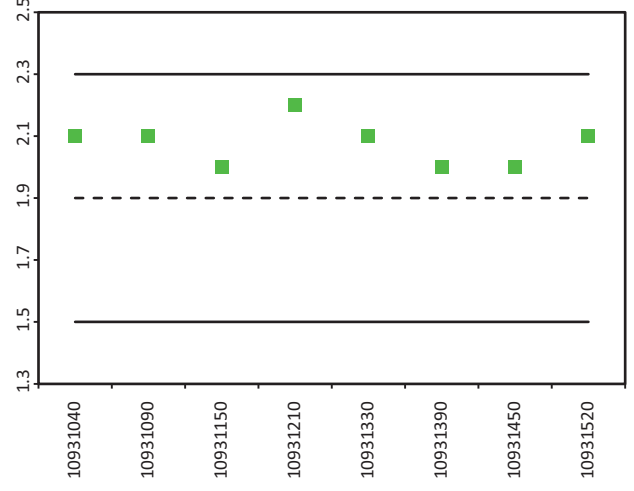
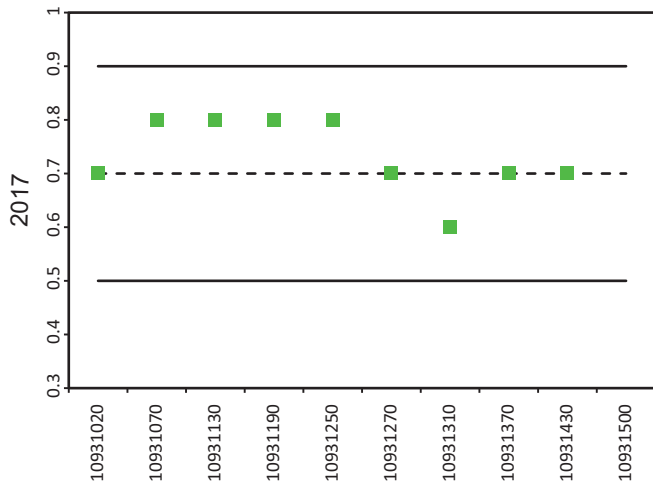
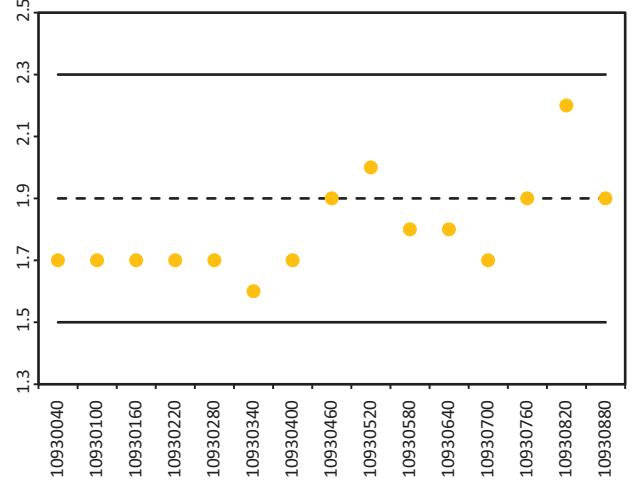
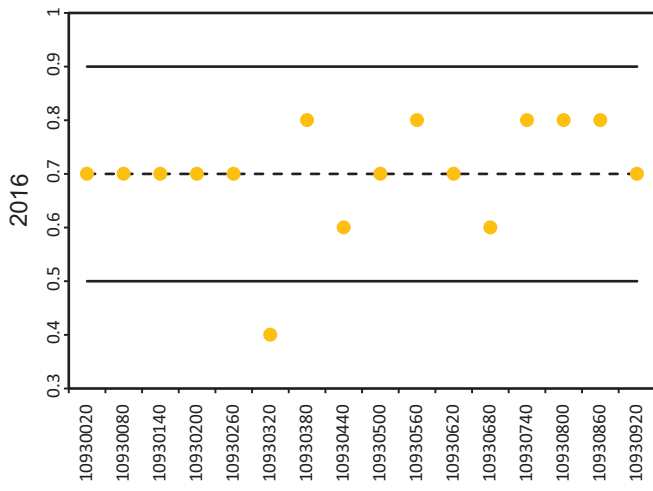
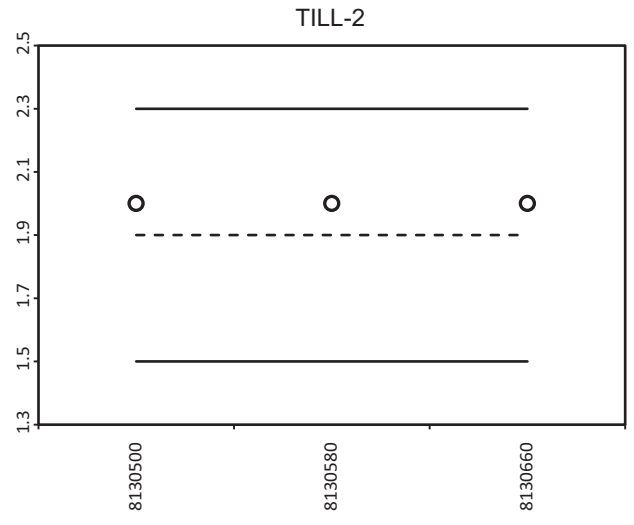
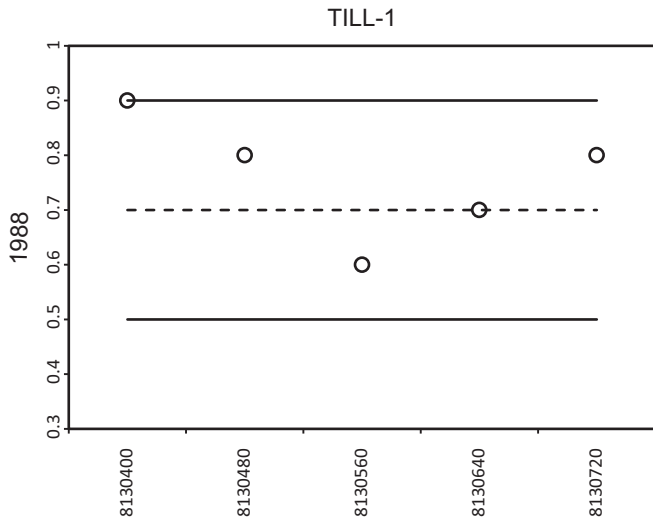
Sr (Multiacid ICP-OES)



Sr (Multiacid ICP-OES)

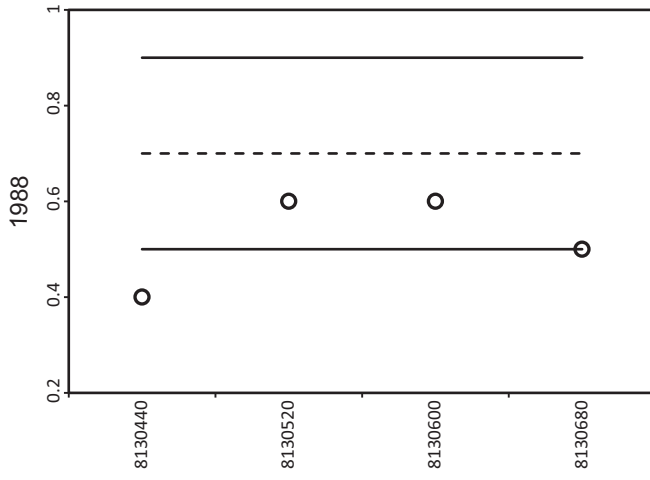


Ta (INAA)

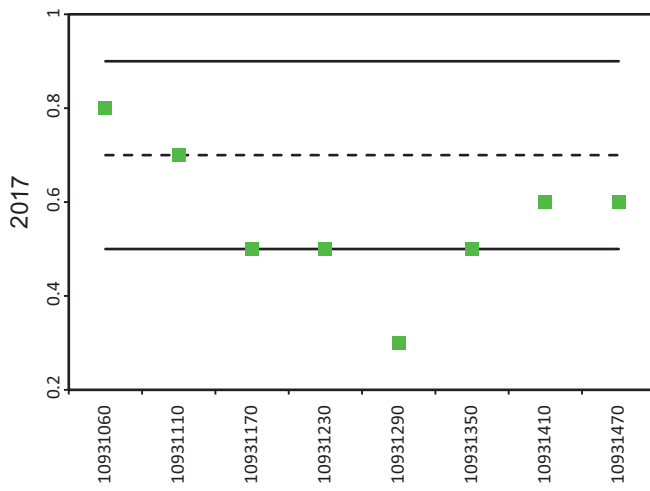
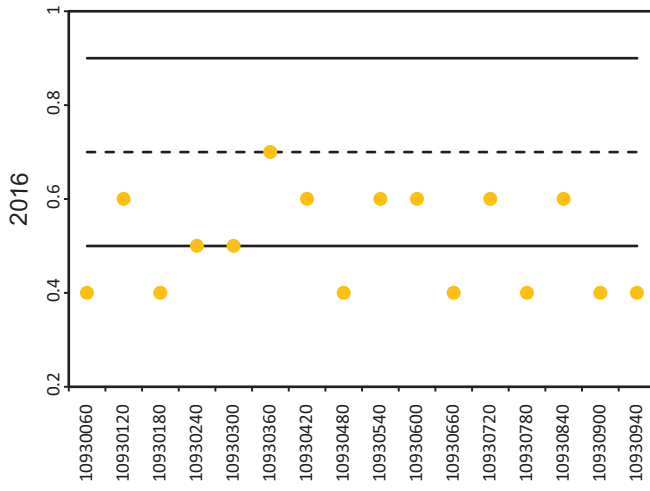
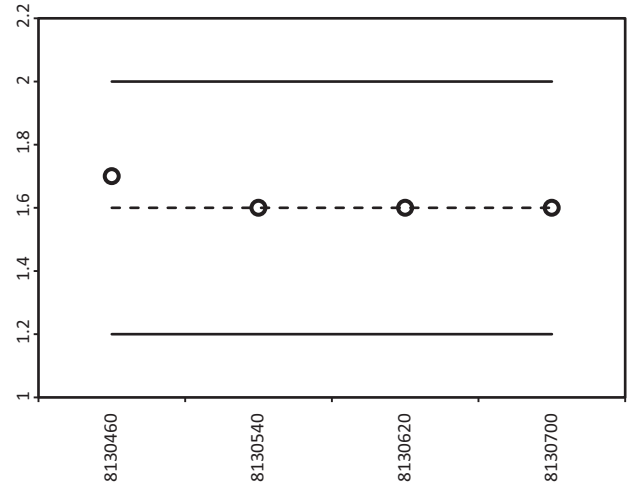


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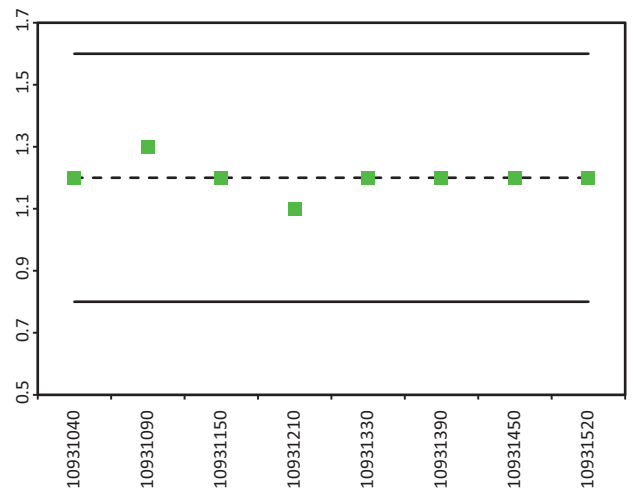
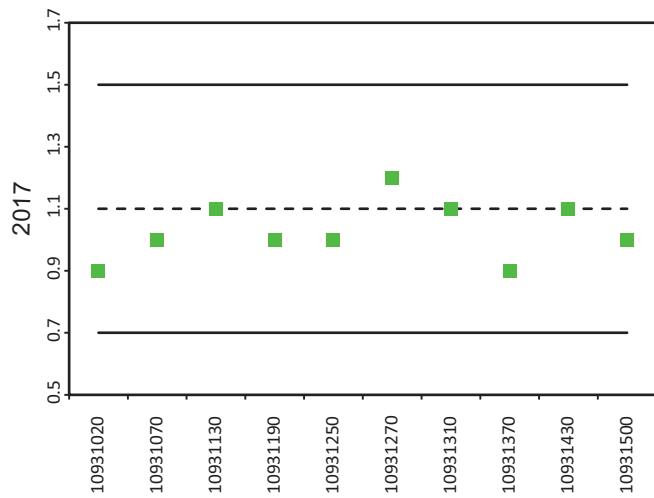
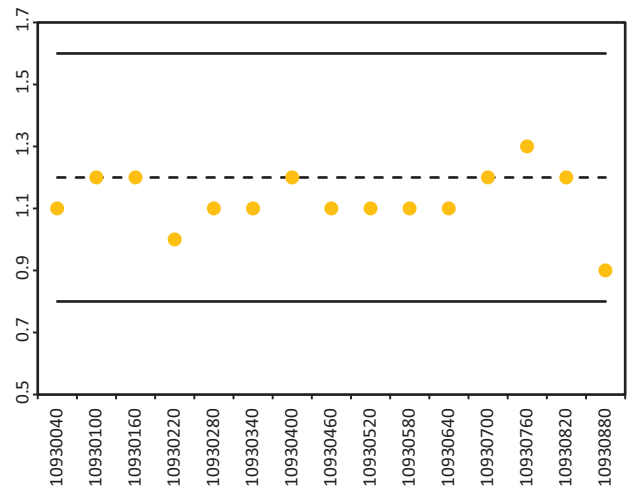
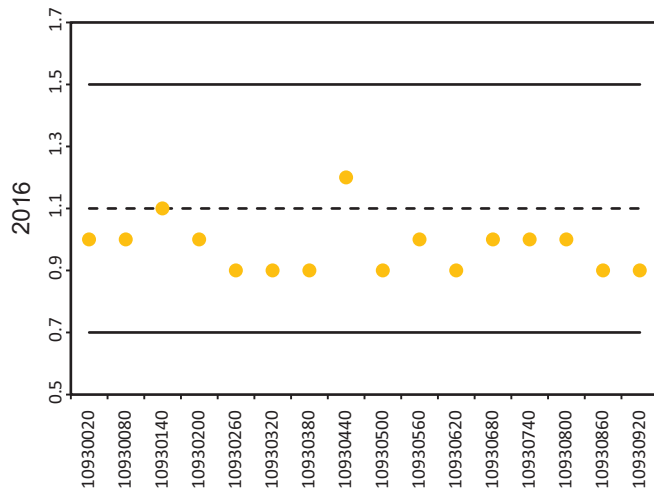
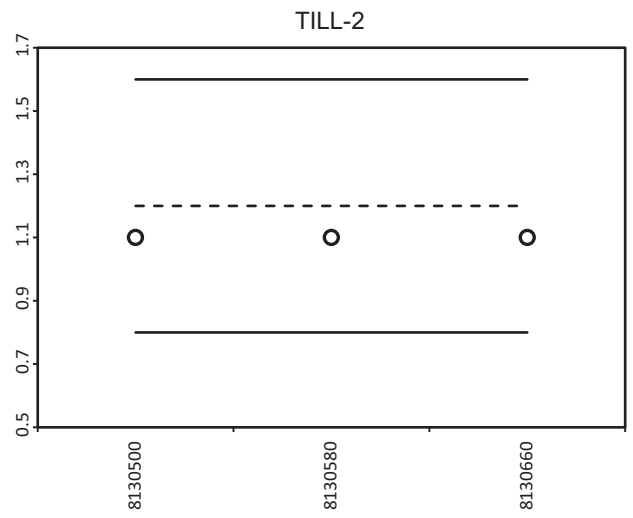
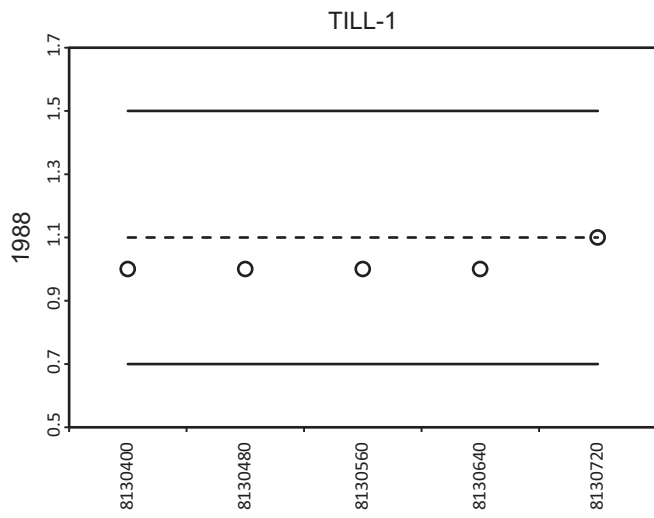
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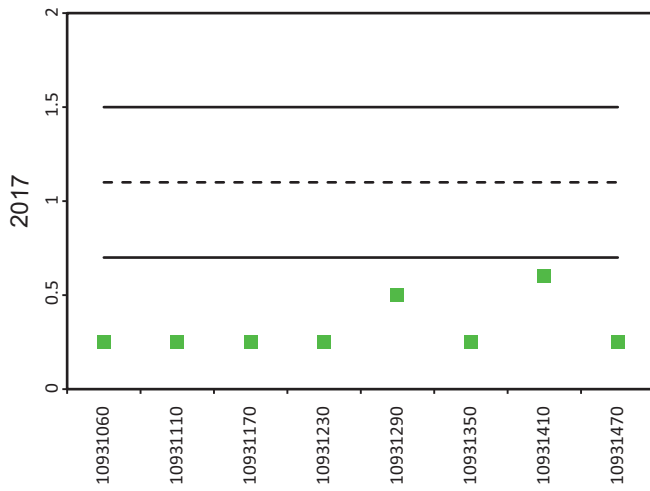
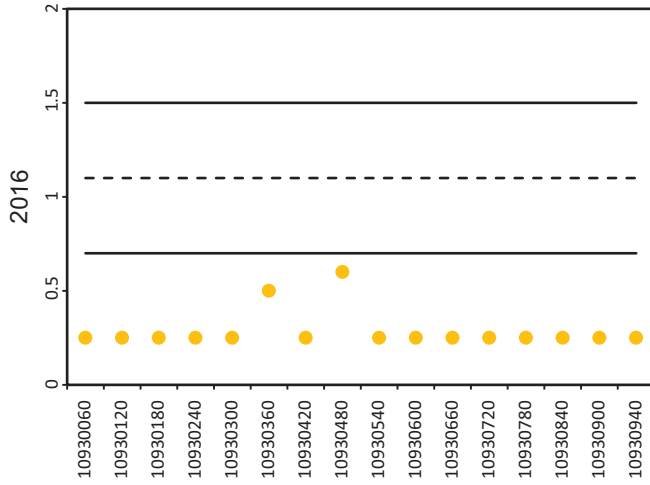
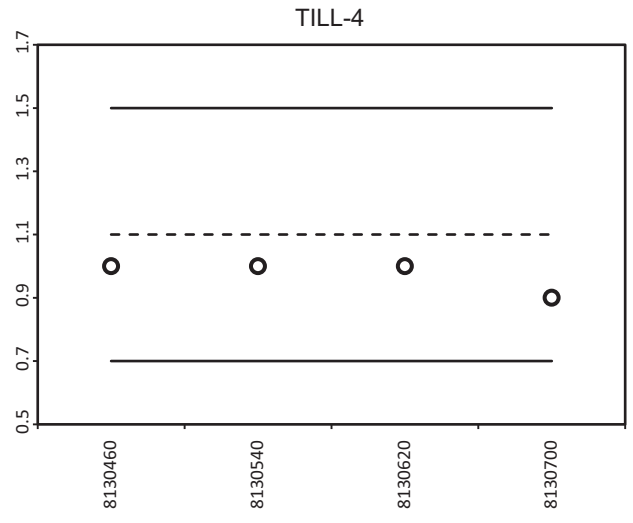
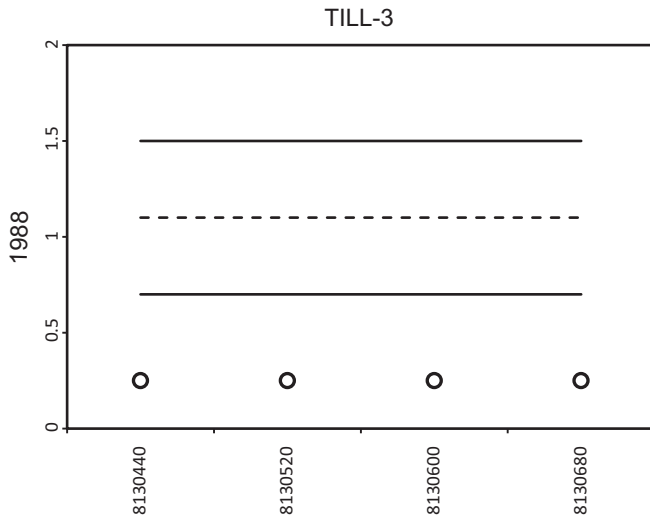
TILL-4



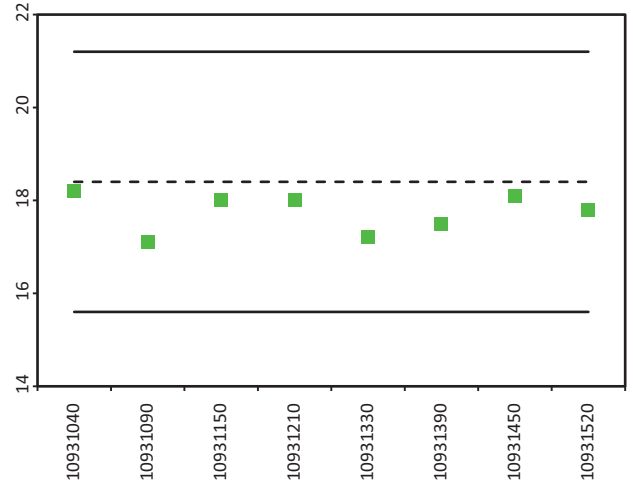
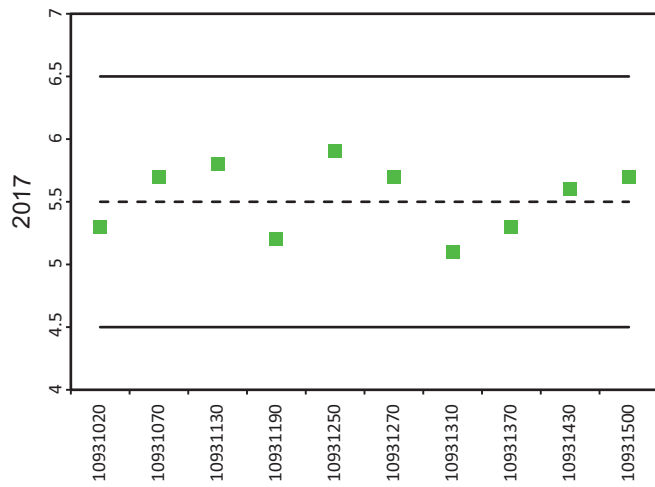
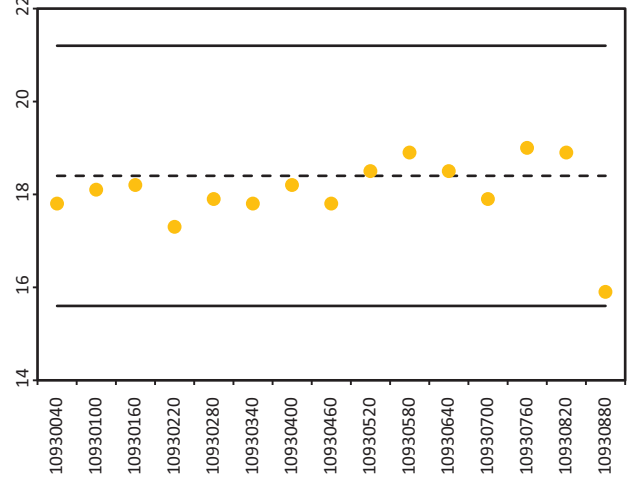
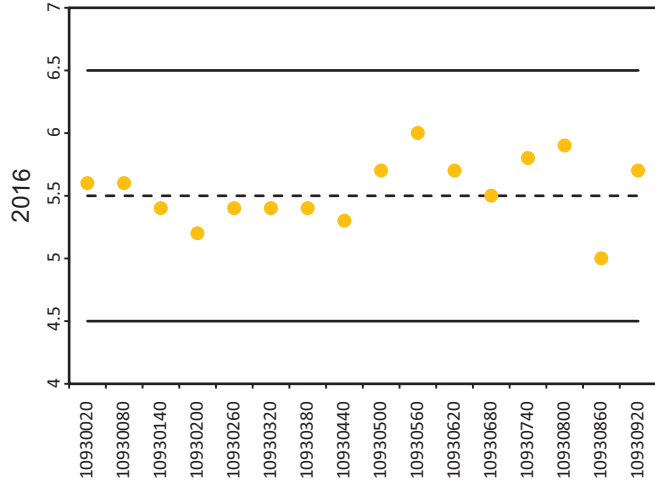
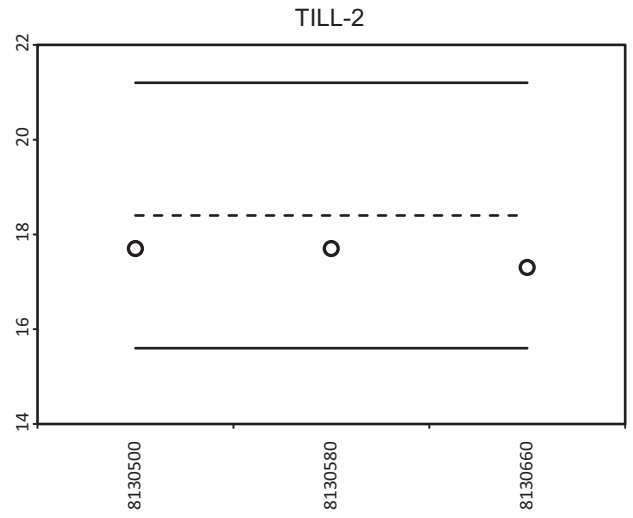
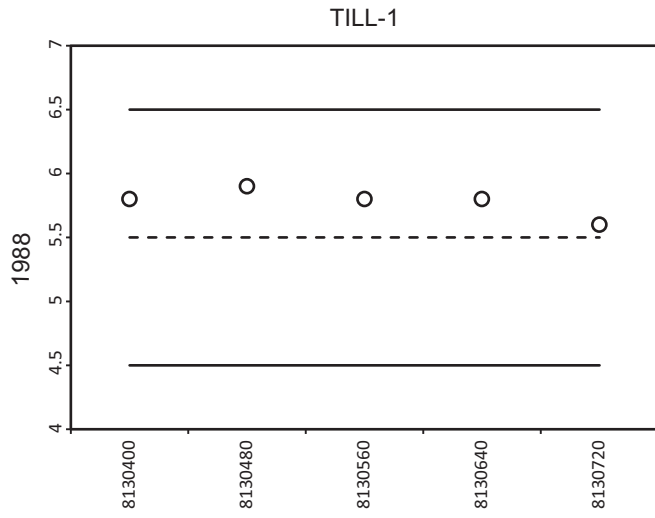
Tb (INAA)



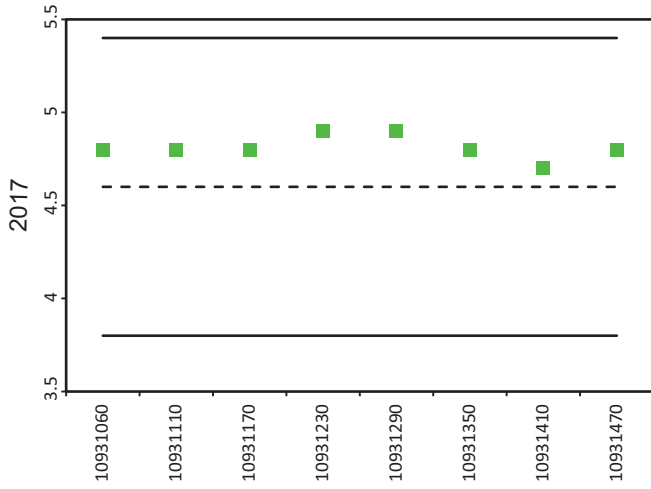
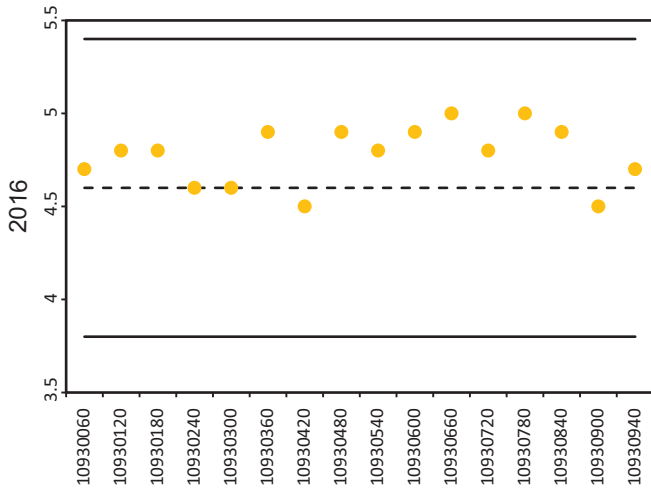
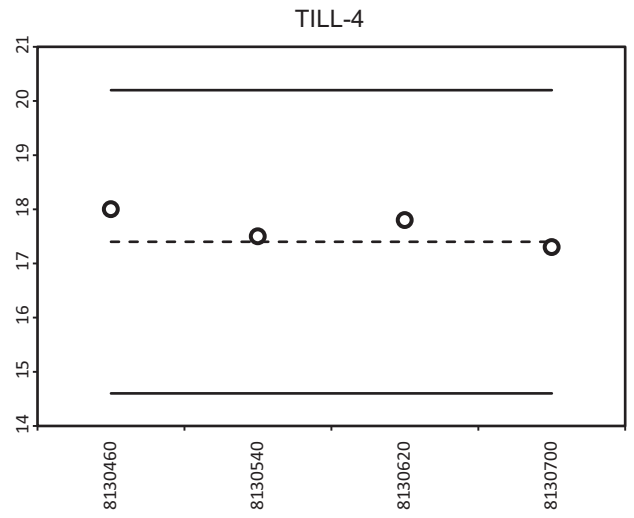
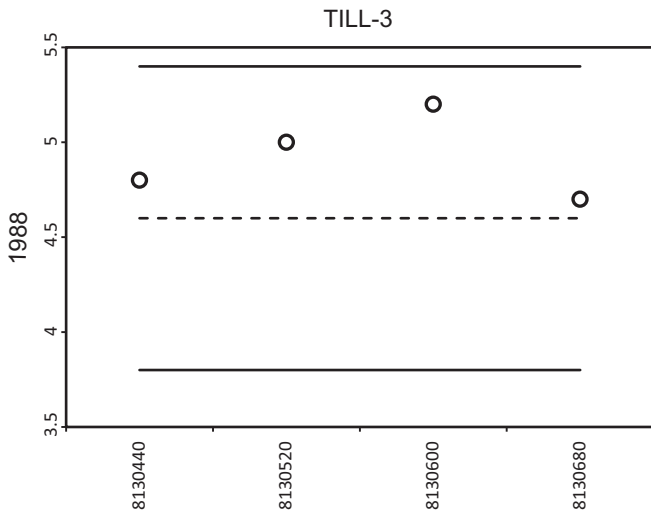
Tb (INAA)



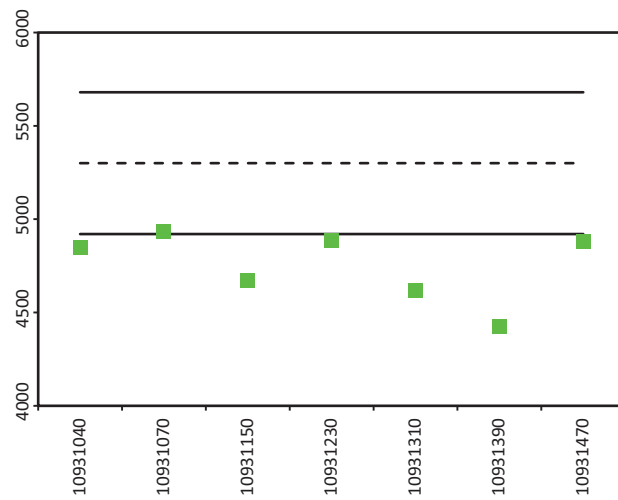
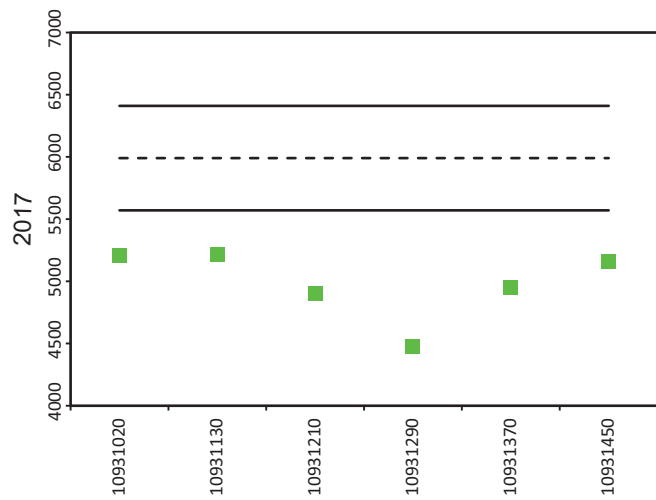
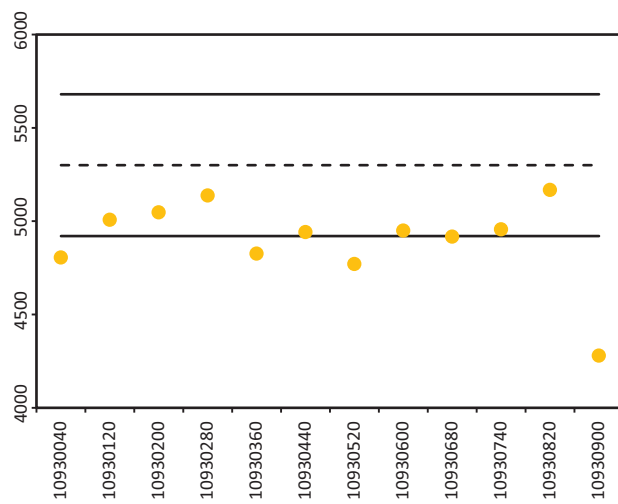
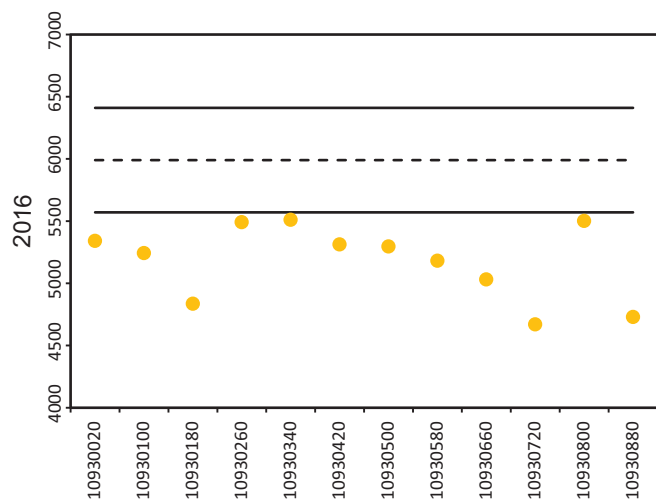
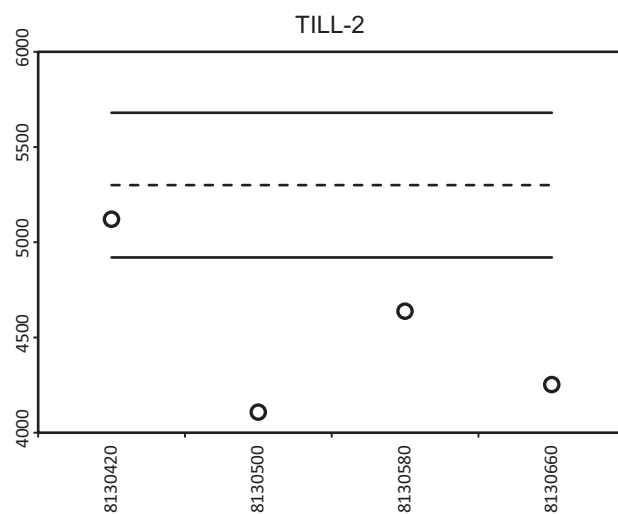
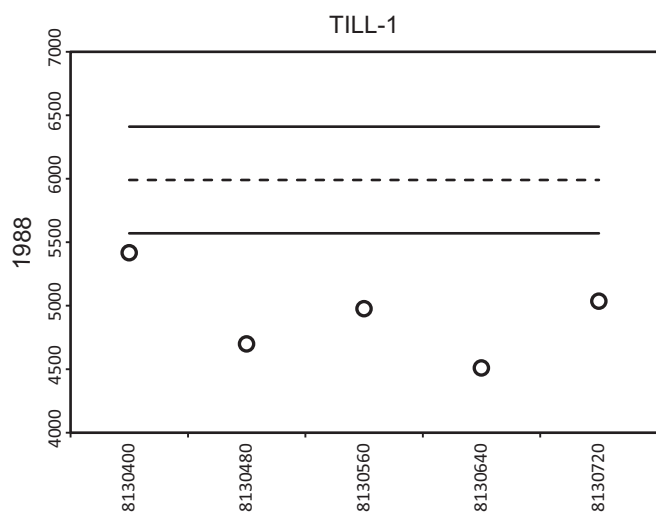
Th (INAA)



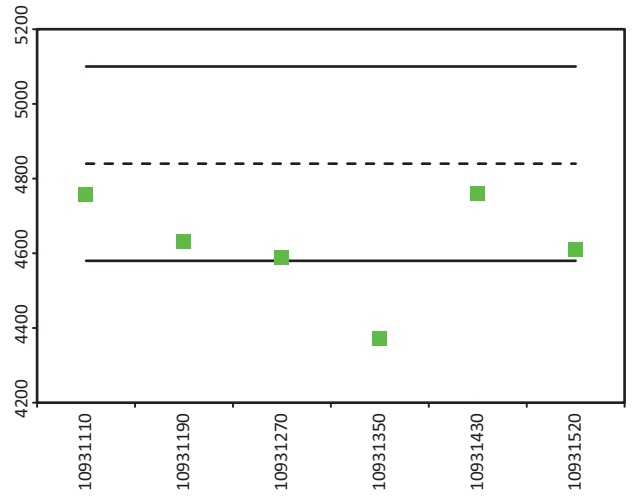
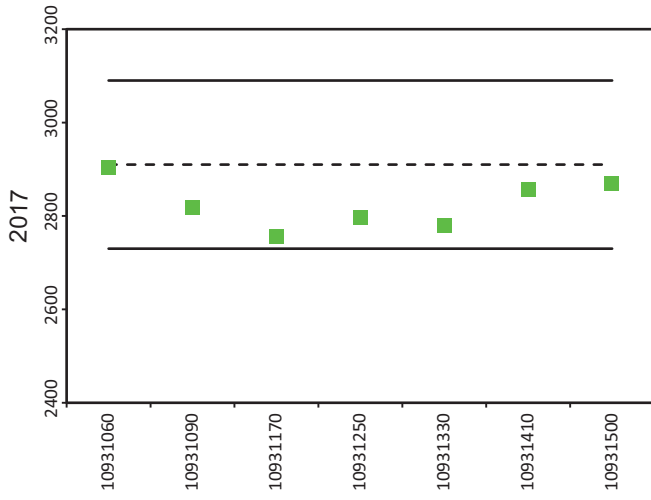
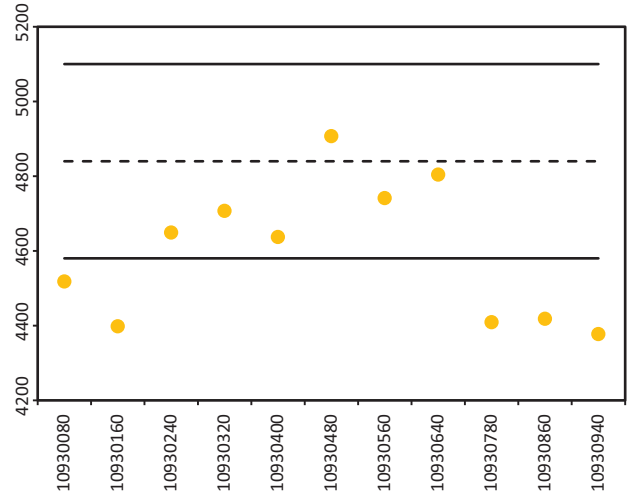
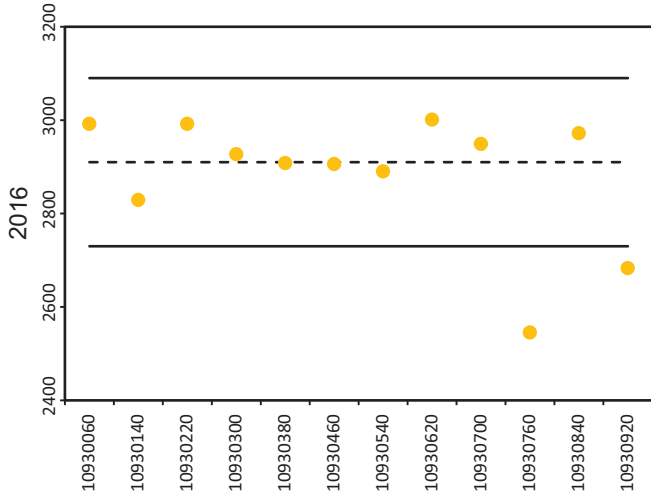
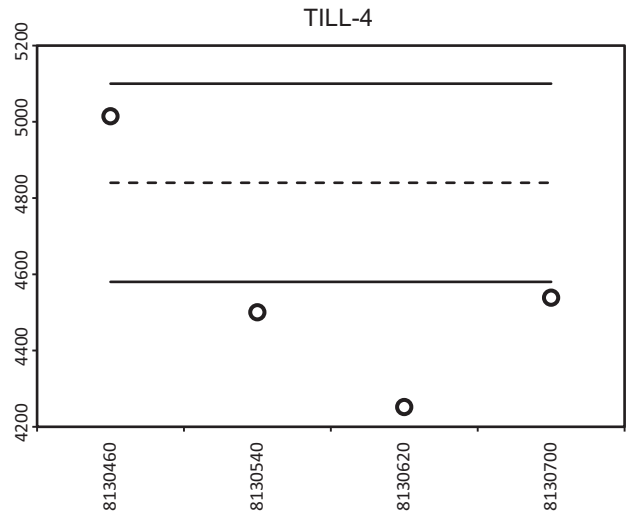
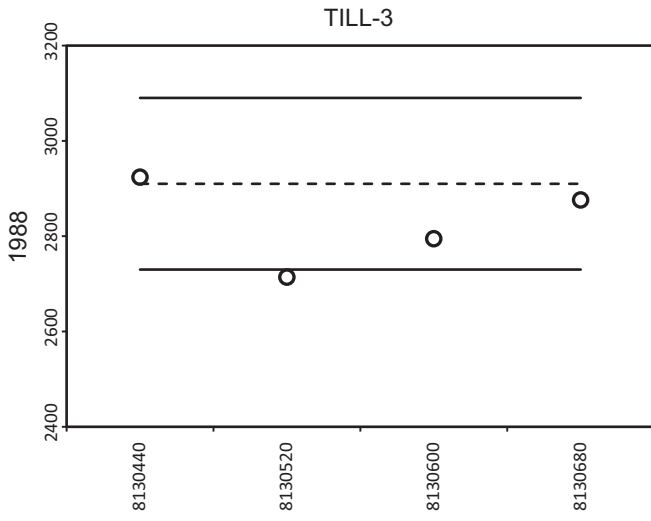
Th (INAA)



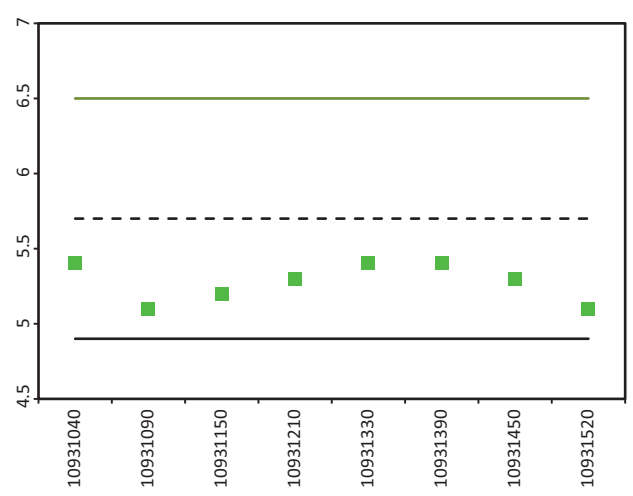
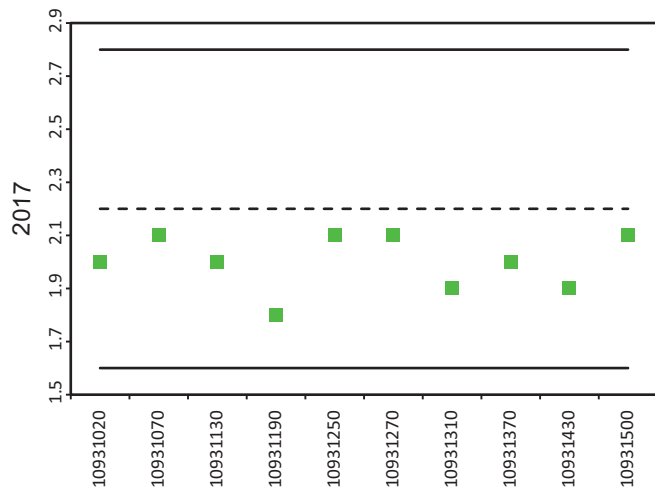
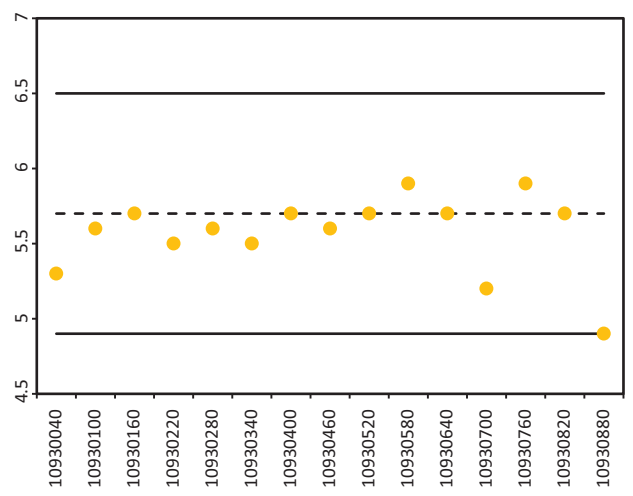
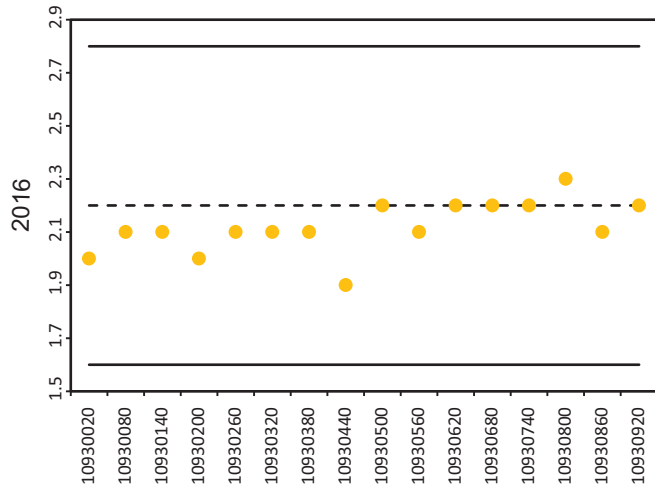
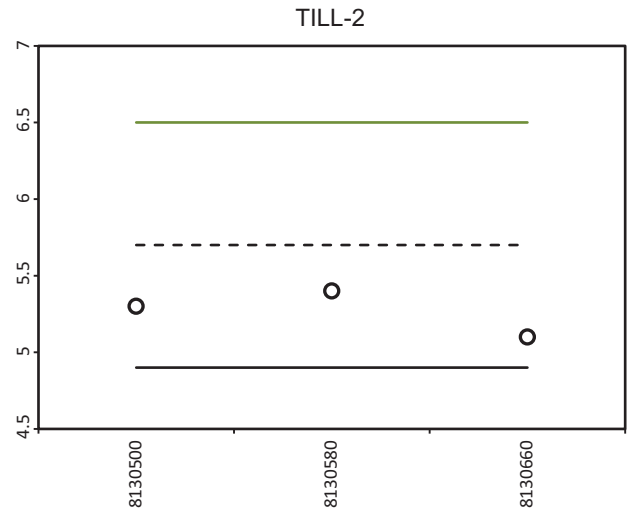
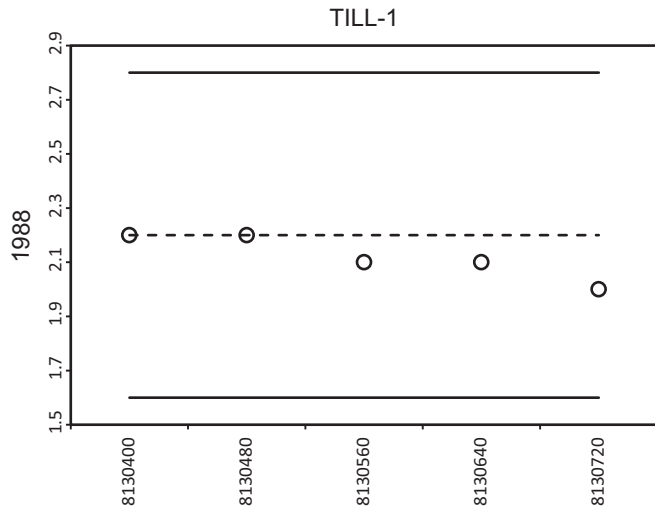
Ti (Multiacid ICP-OES)



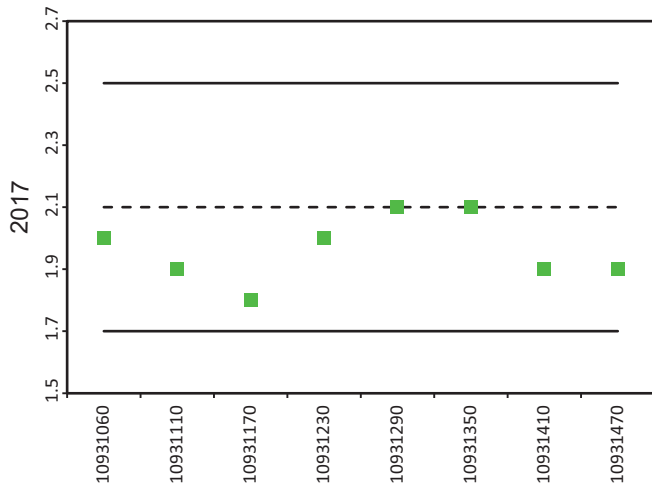
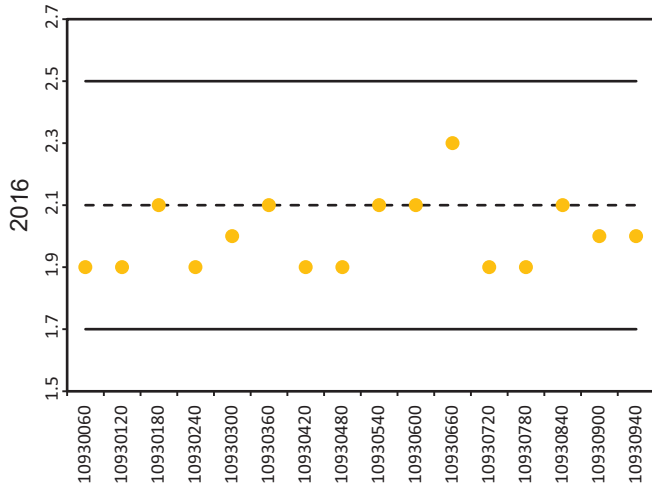
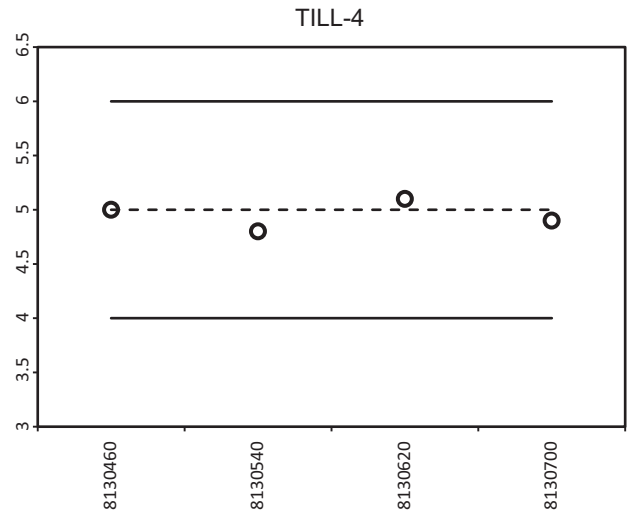
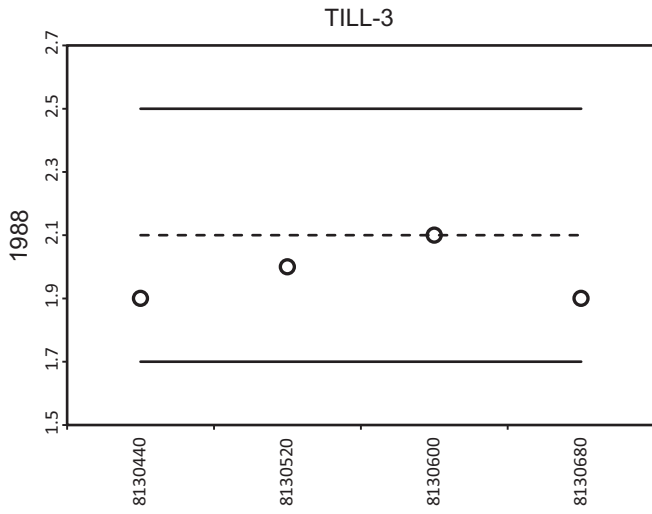
Ti (Multiacid ICP-OES)



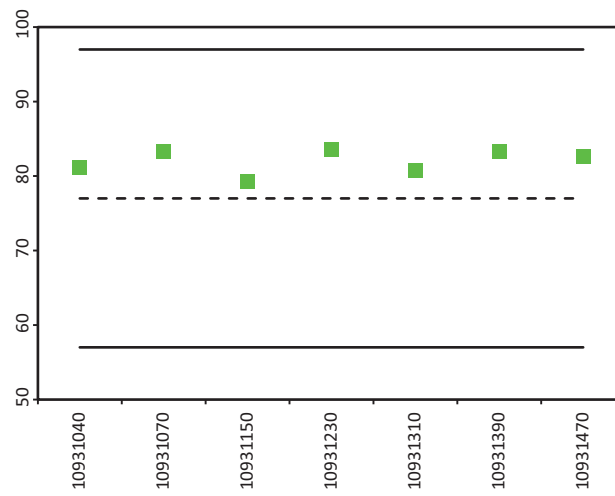
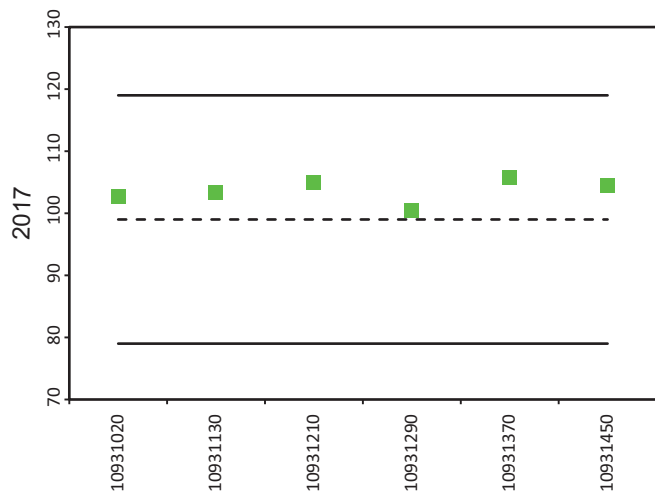
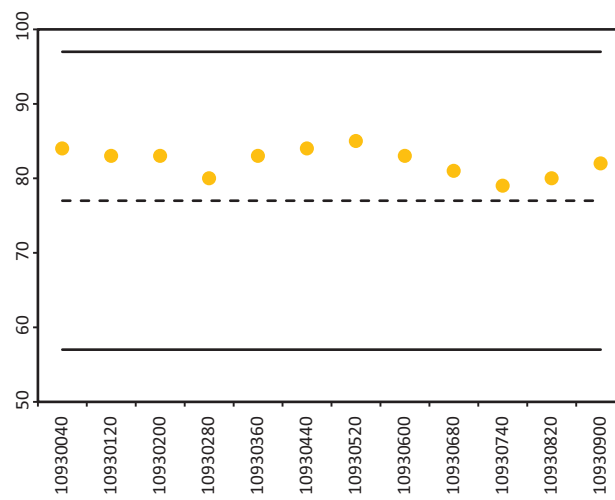
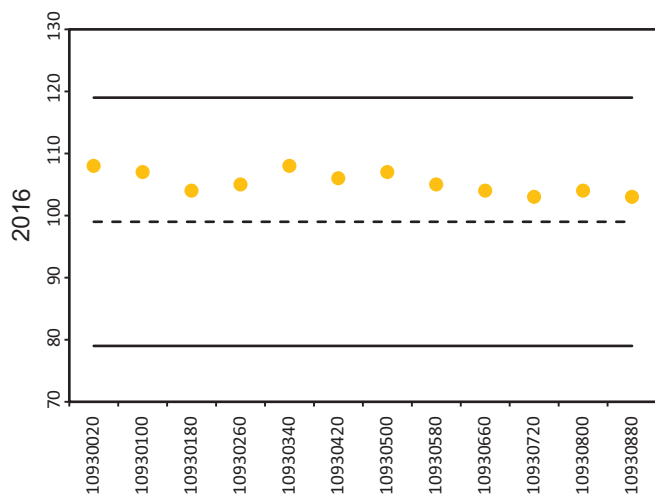
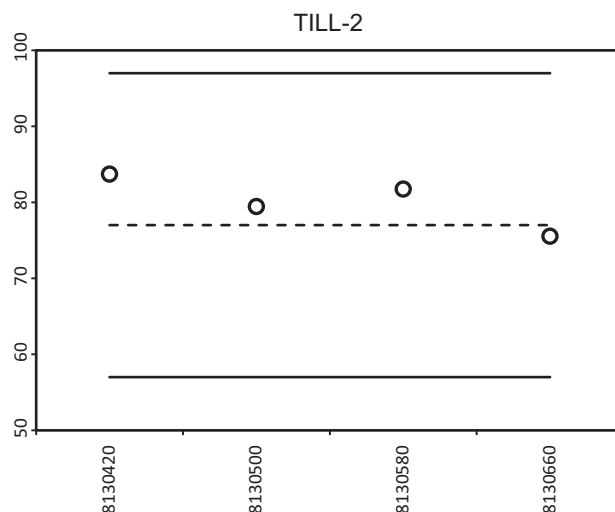
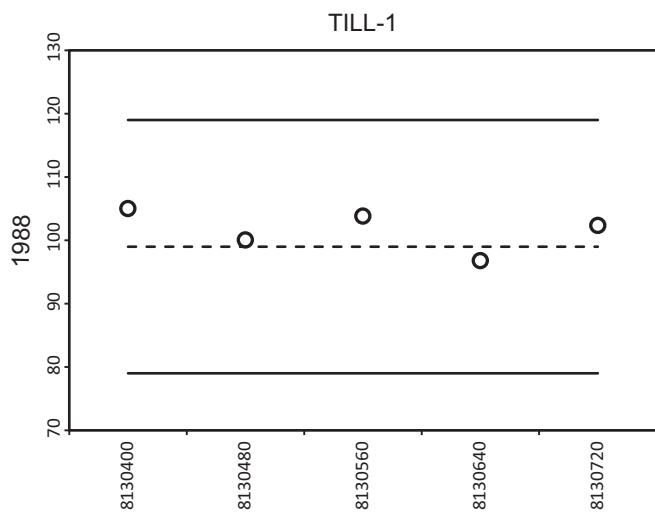
U (INAA)



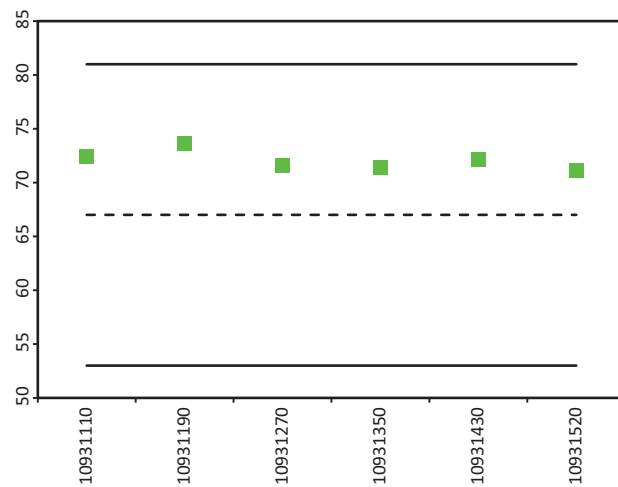
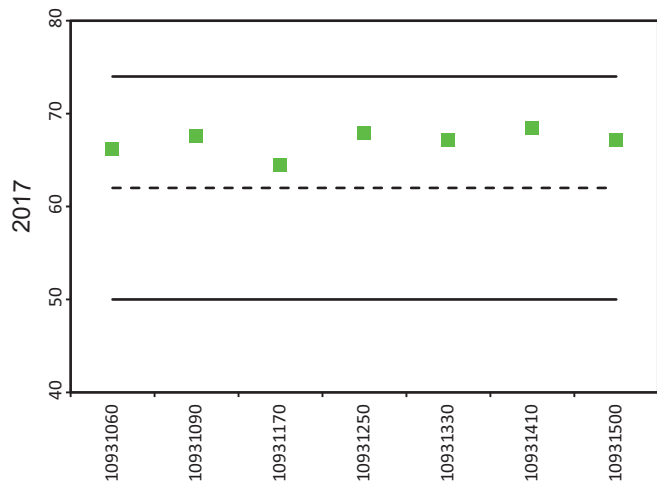
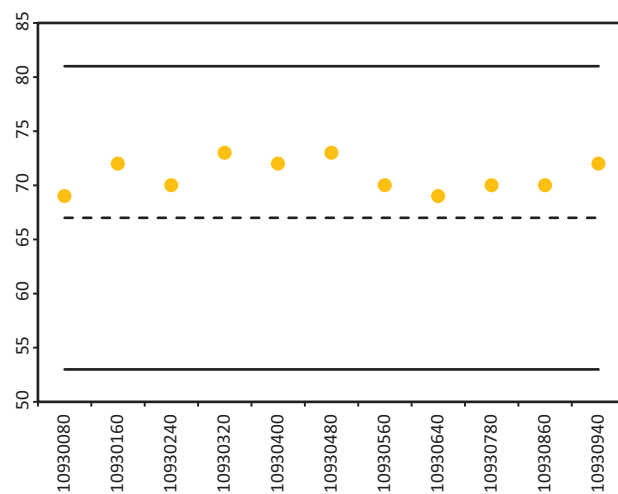
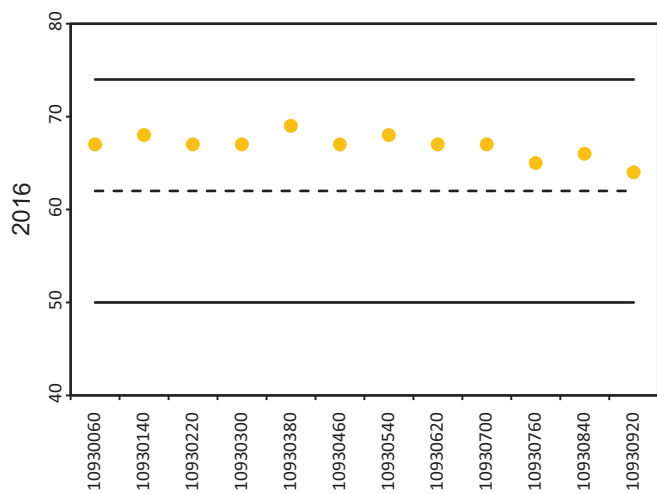
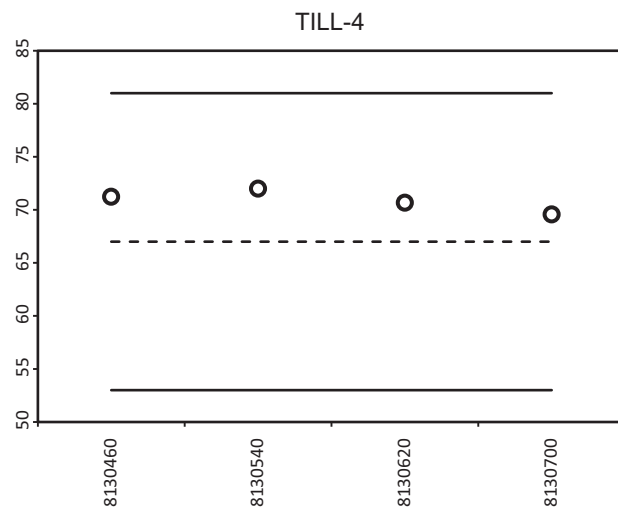
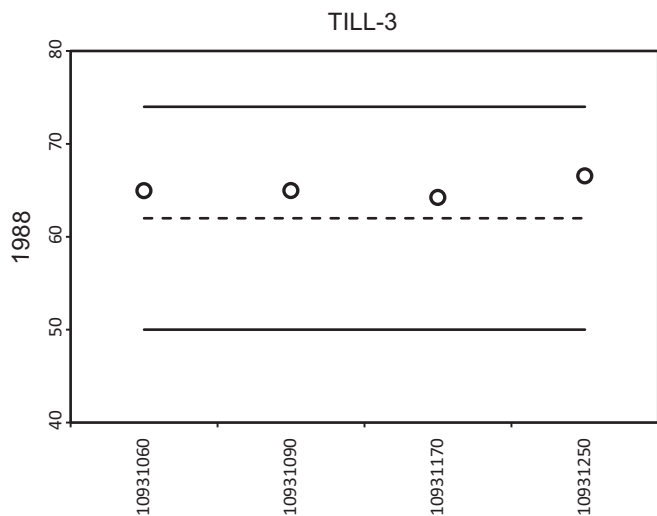
U (INAA)



V (Multiacid ICP-OES)

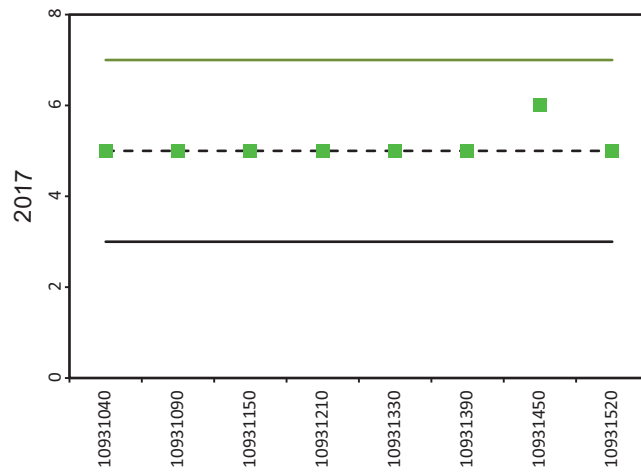
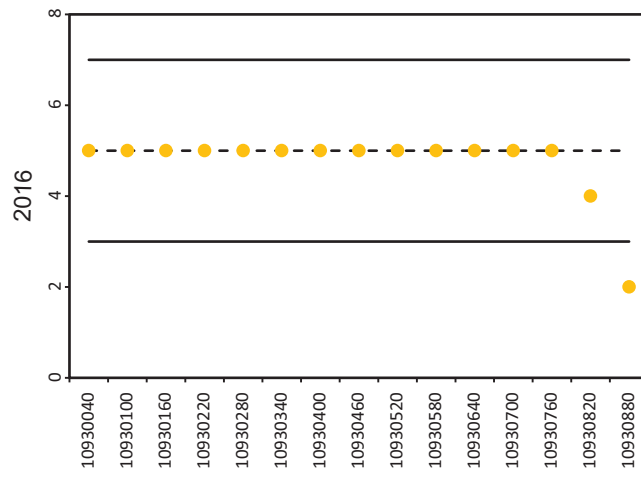
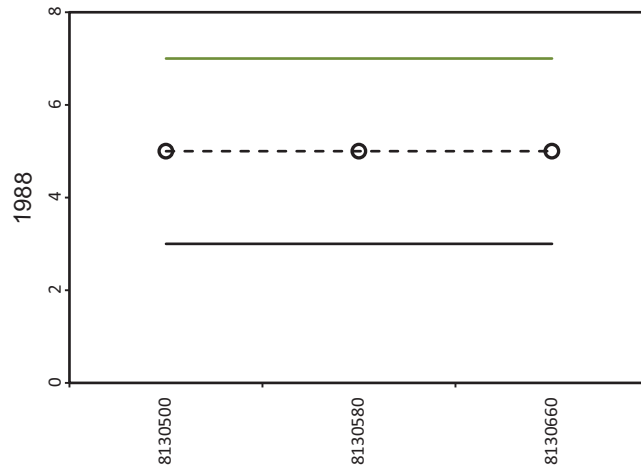


V (Multiacid ICP-OES)

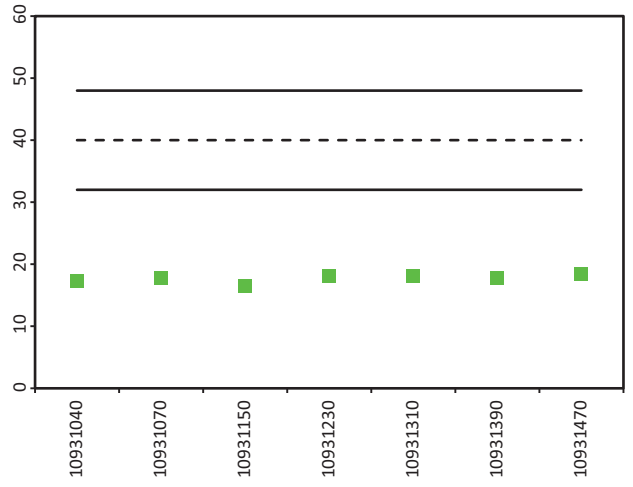
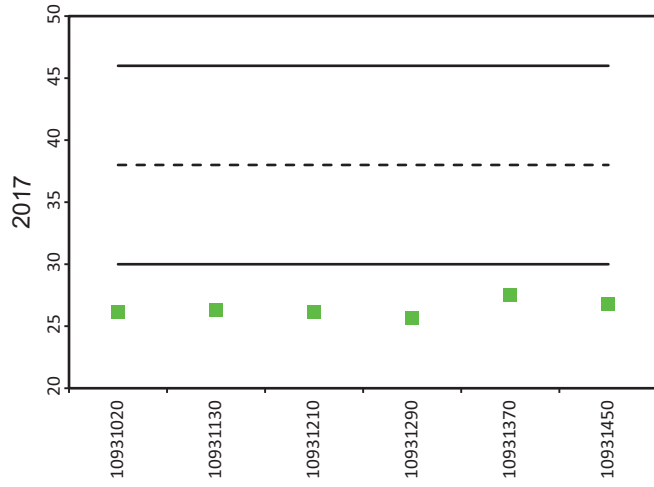
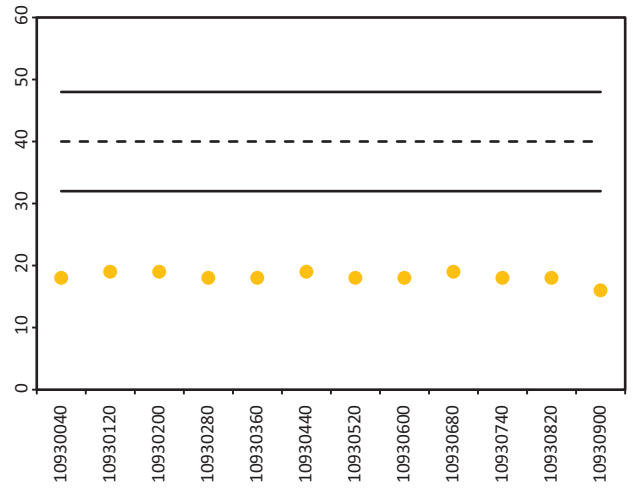
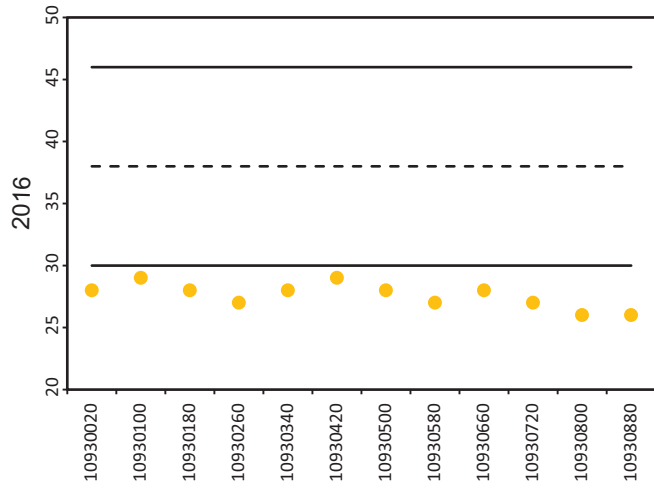
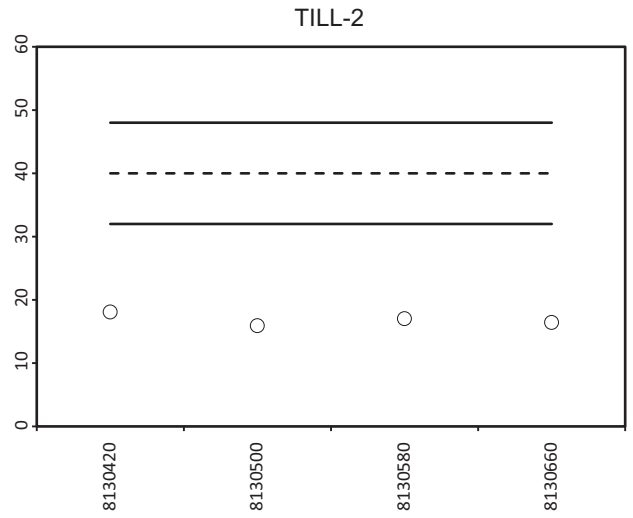
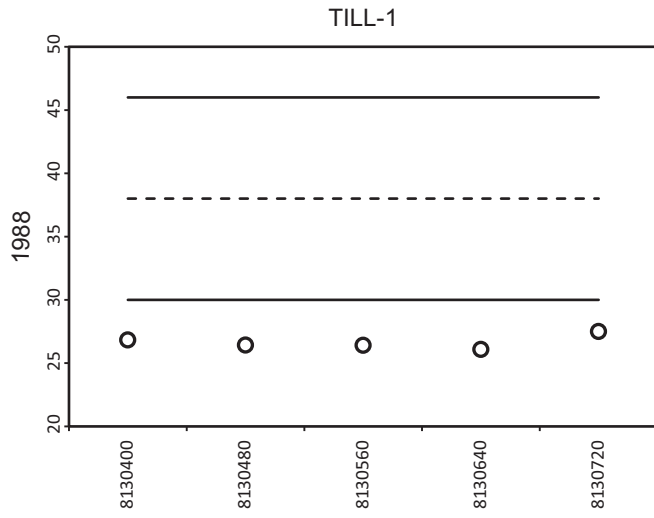


W (INAA)

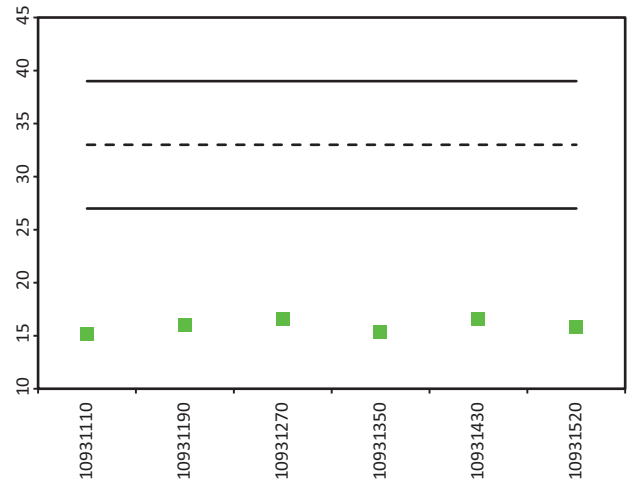
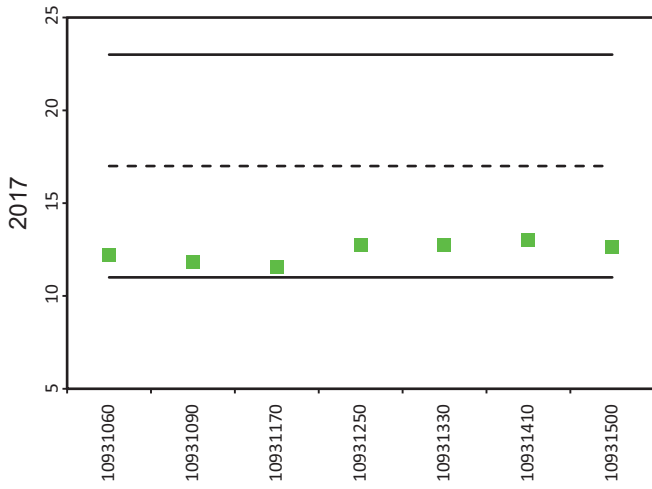
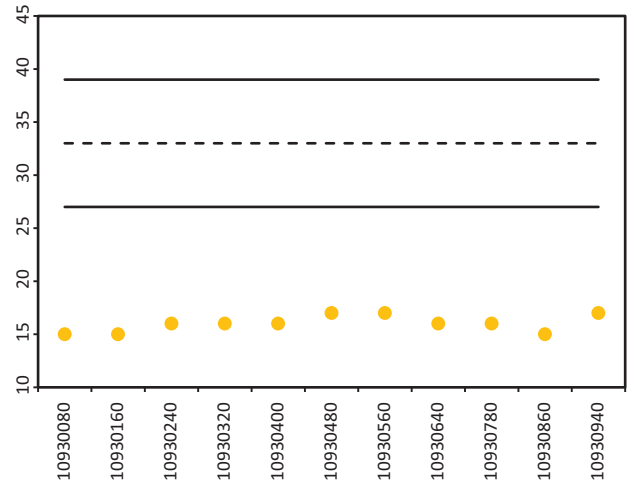
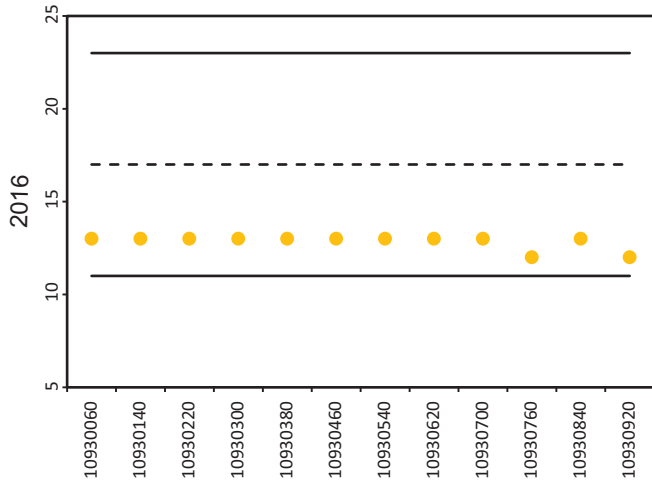
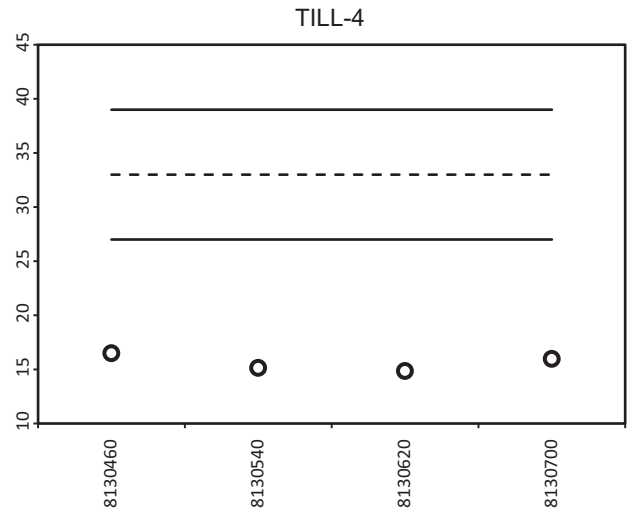
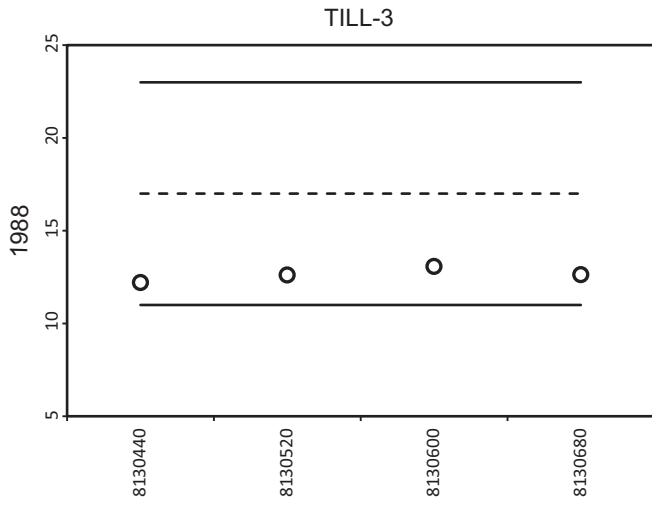
TILL-2



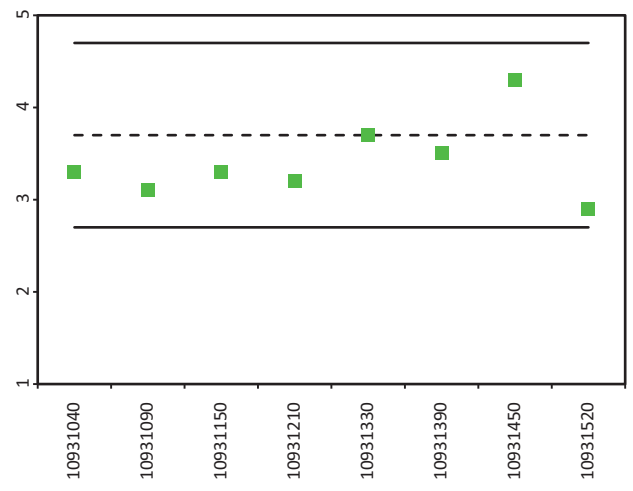
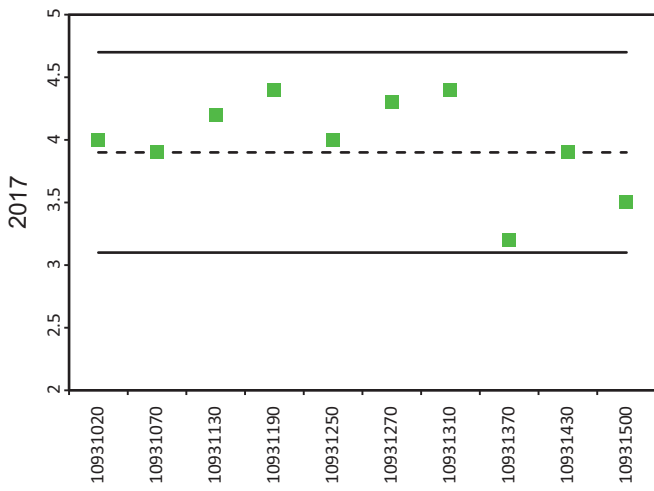
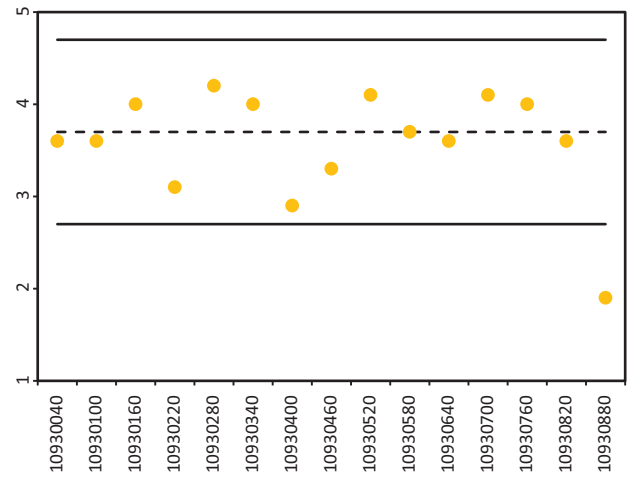
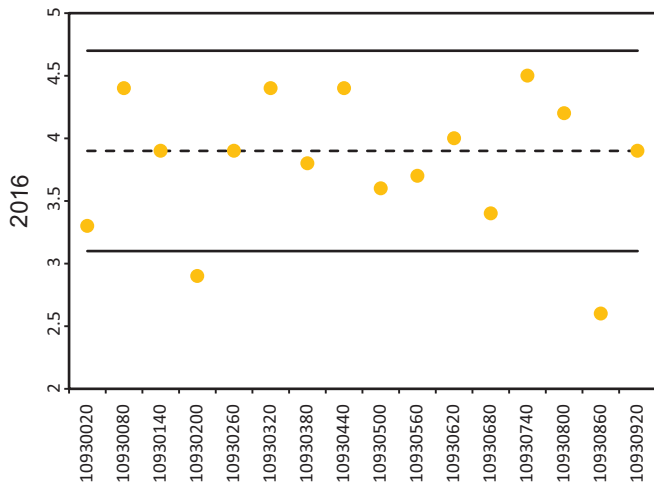
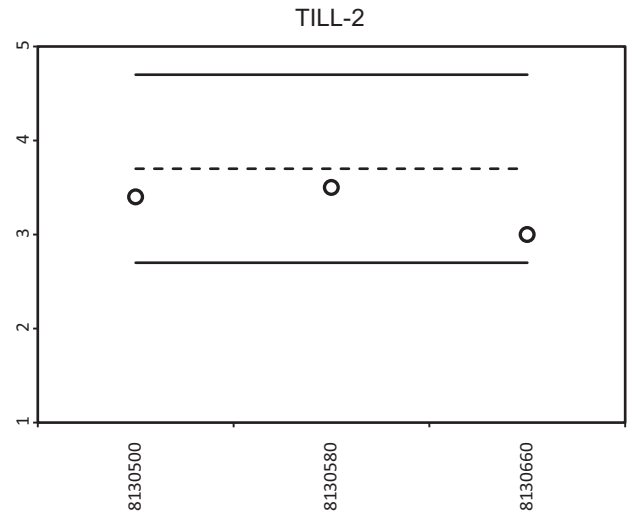
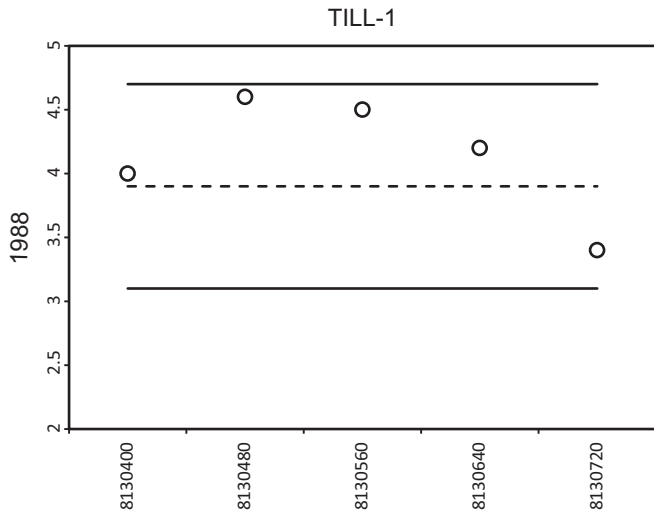
Y (Multiacid ICP-OES)



Y (Multiacid ICP-OES)

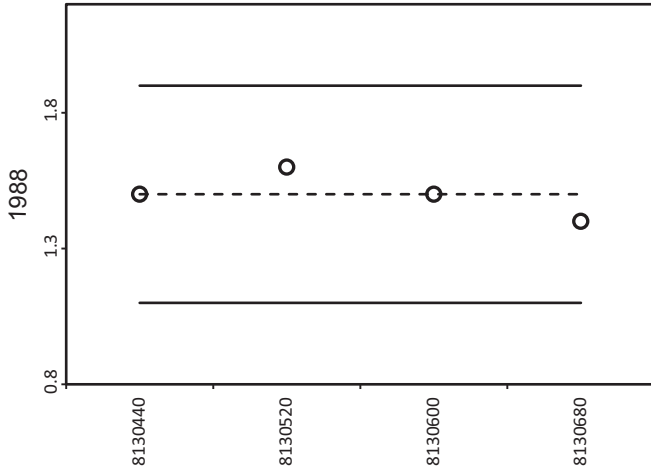


Yb (INAA)

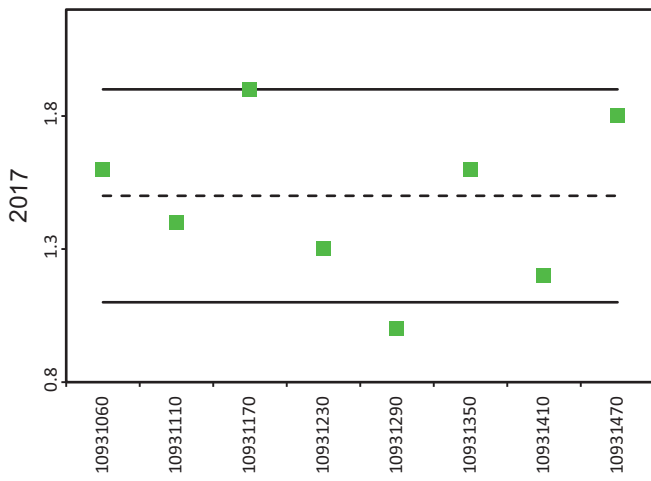
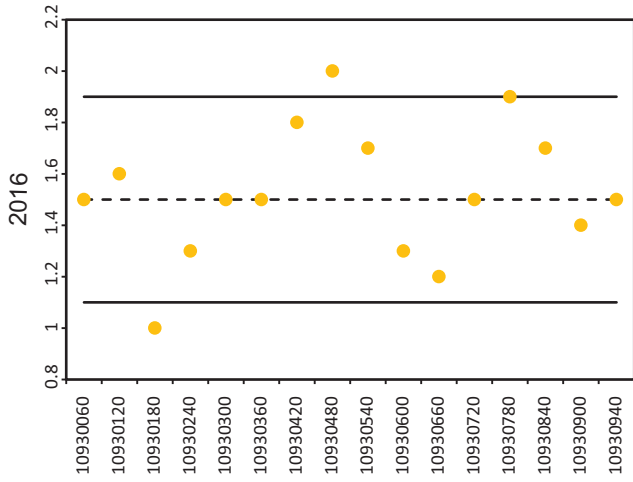
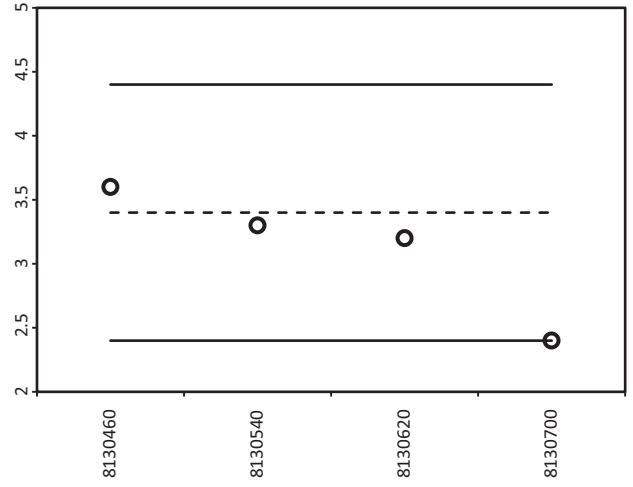


Yb (INAA)

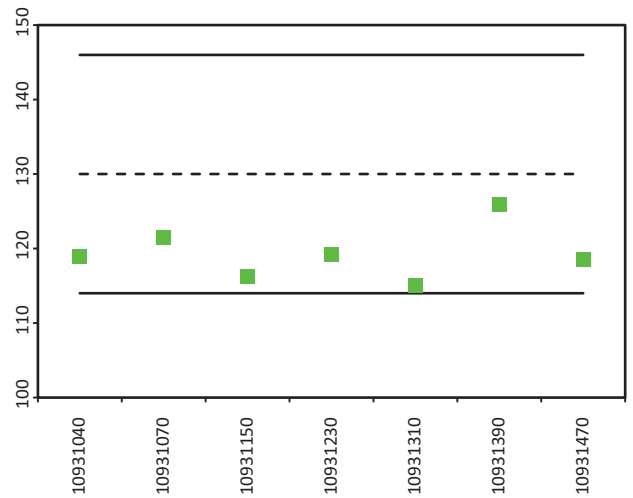
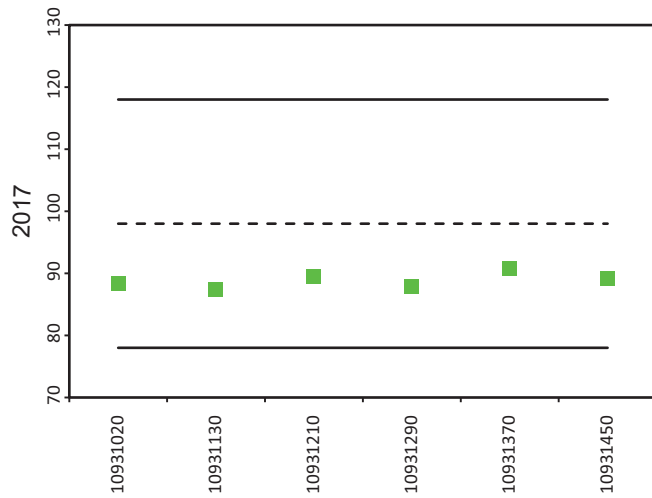
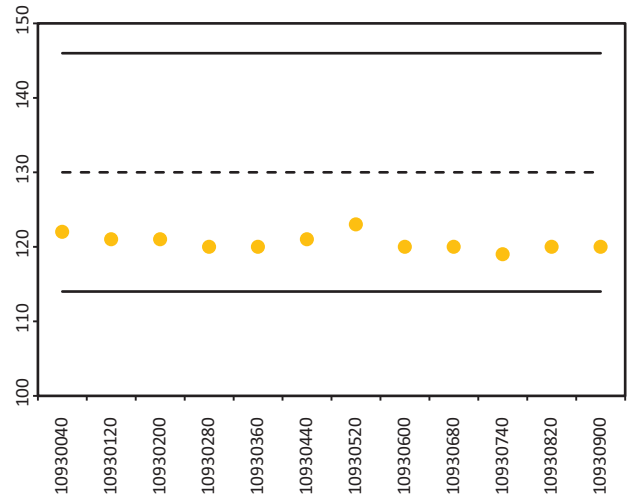
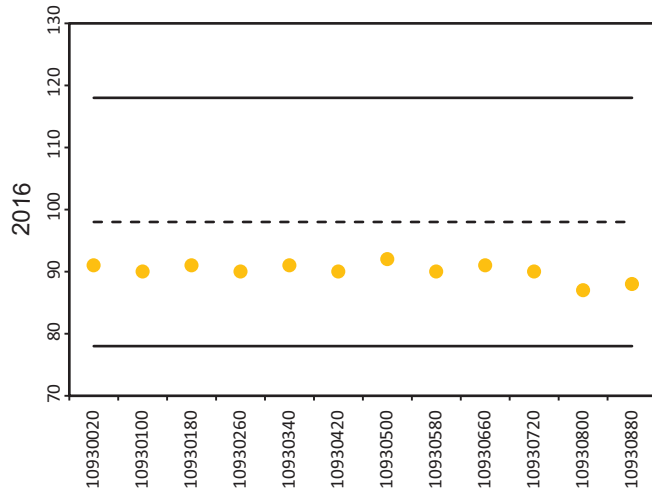
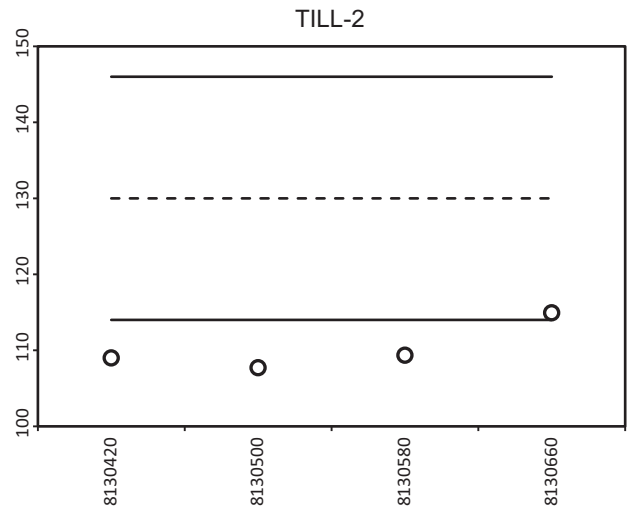
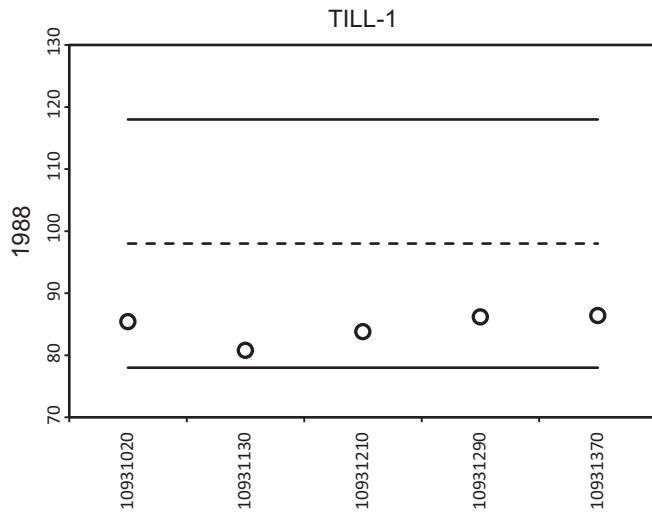
TILL-3



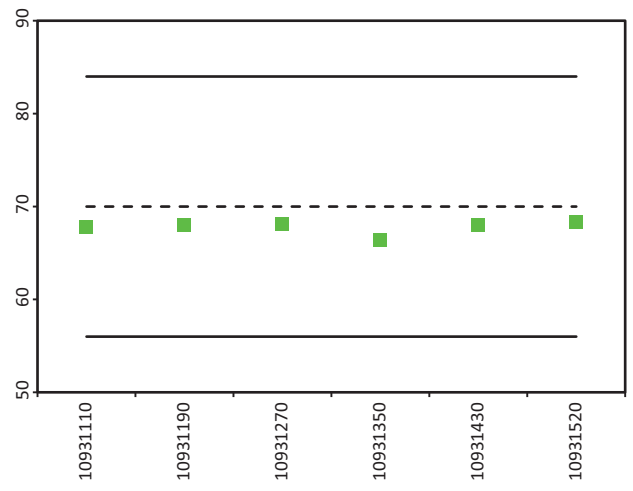
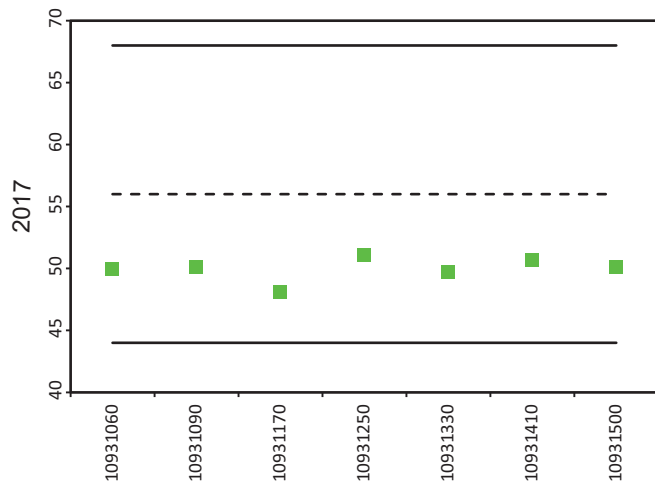
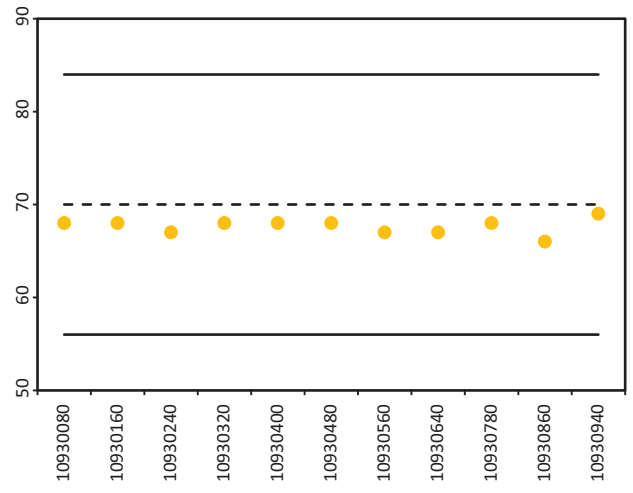
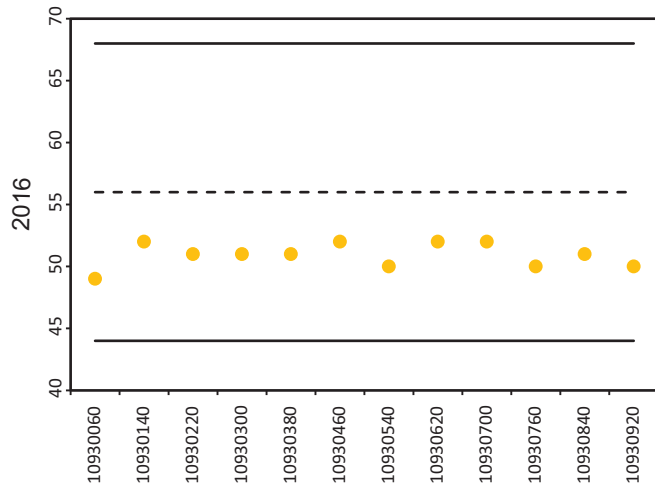
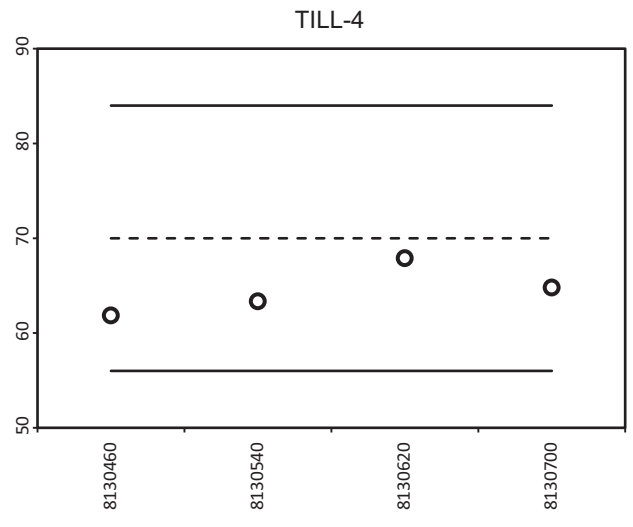
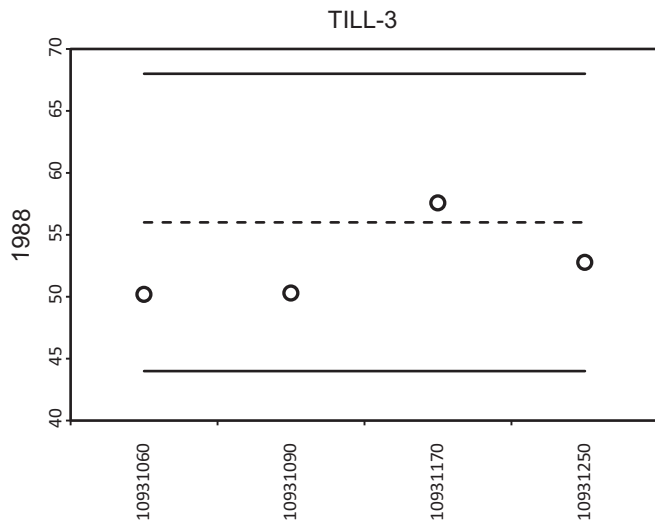
TILL-4



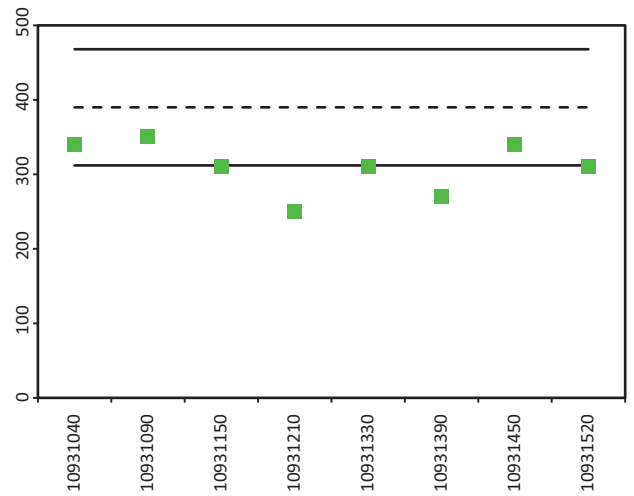
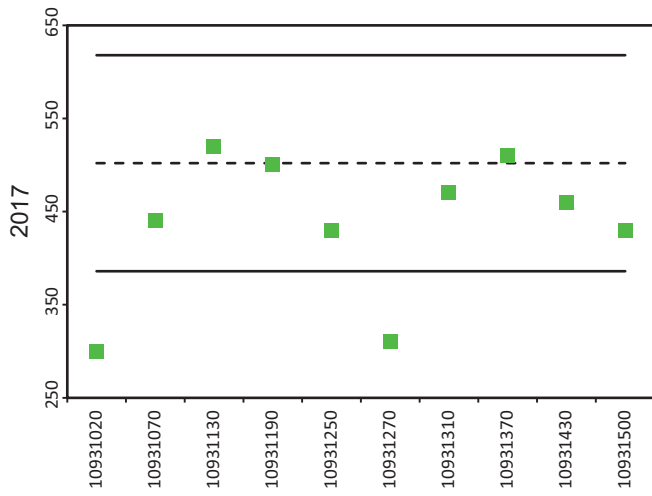
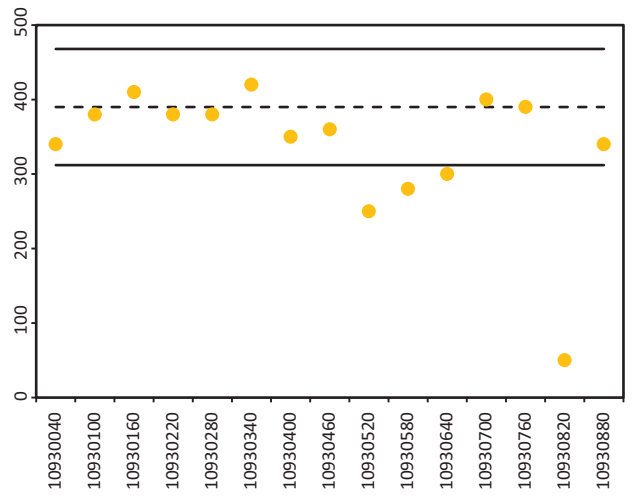
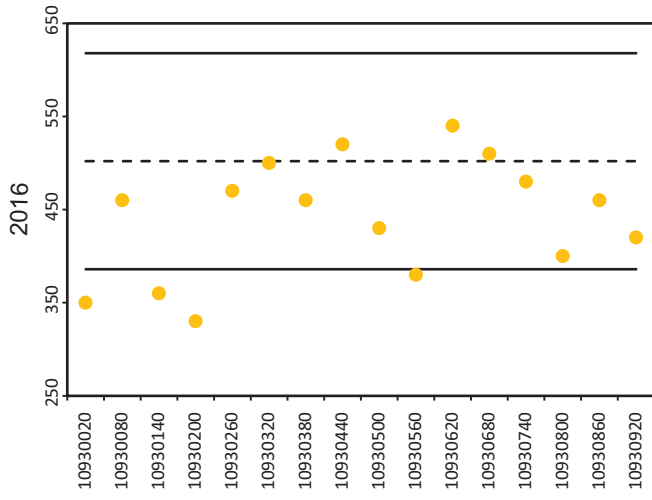
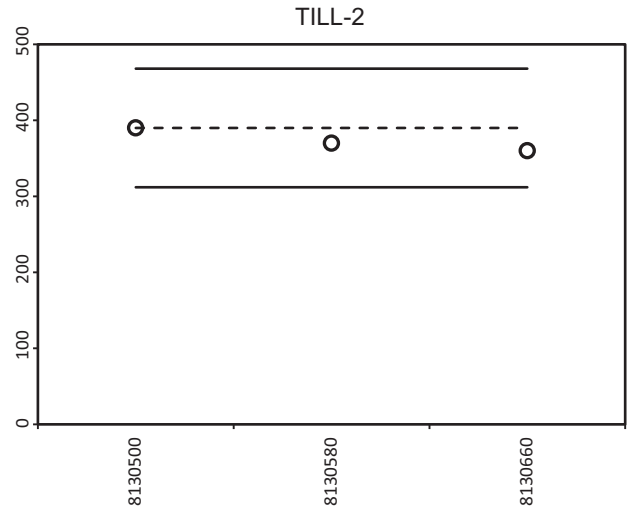
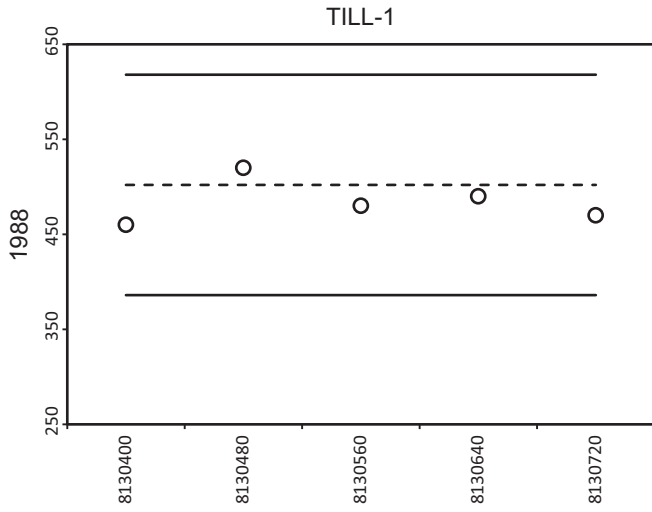
Zn (Multiacid ICP-OES)



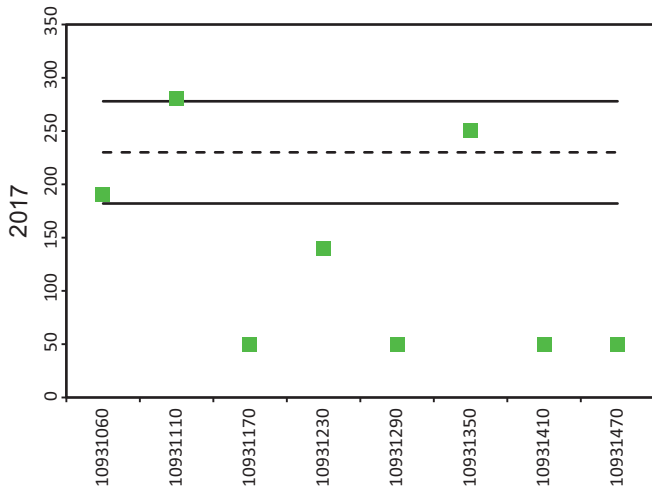
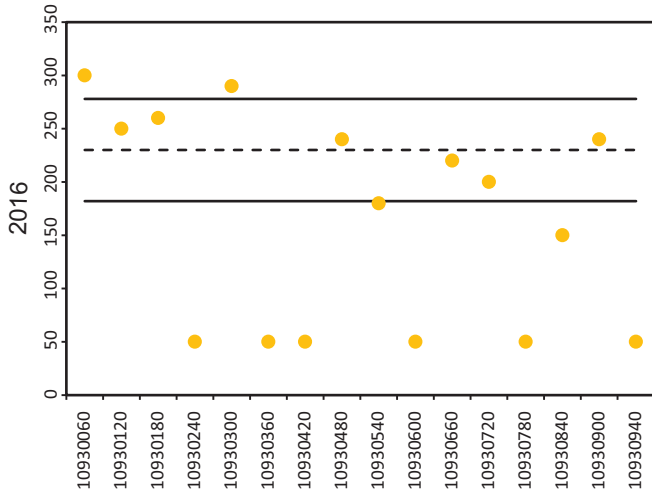
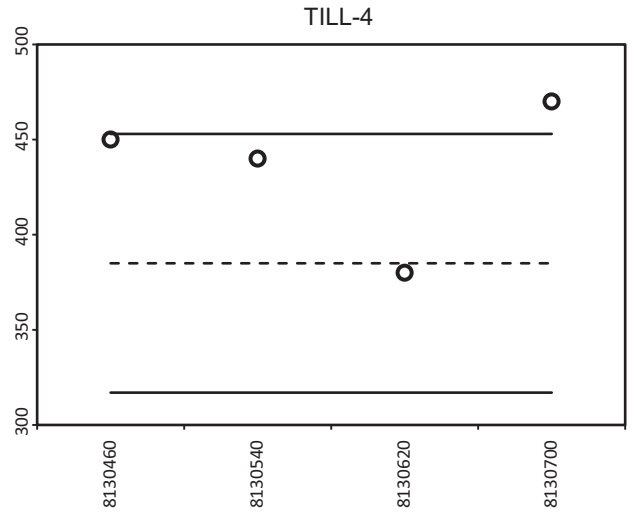
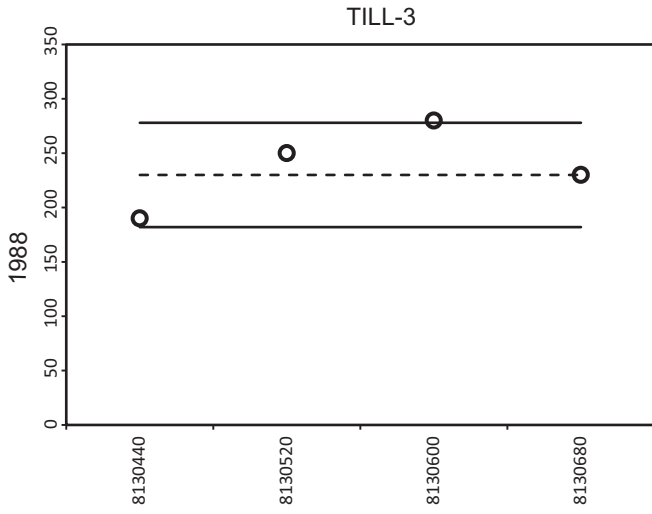
Zn (Multiacid ICP-OES)



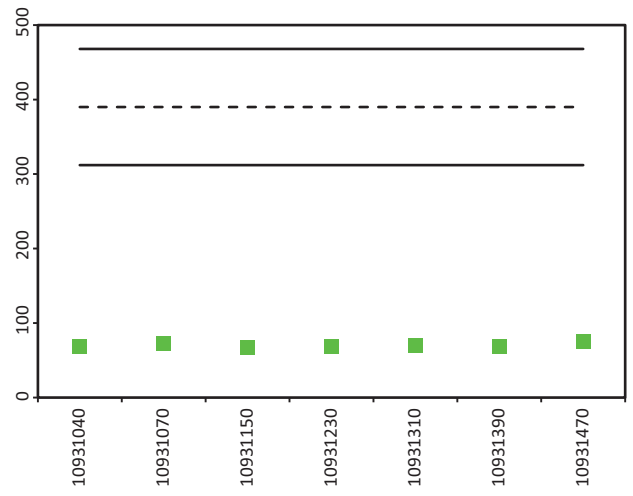
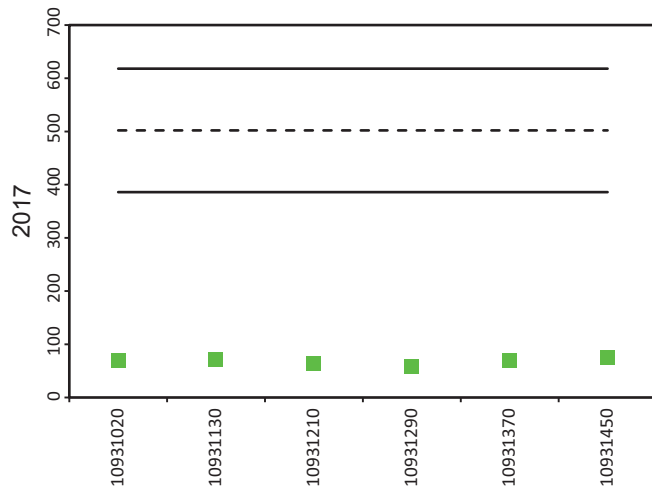
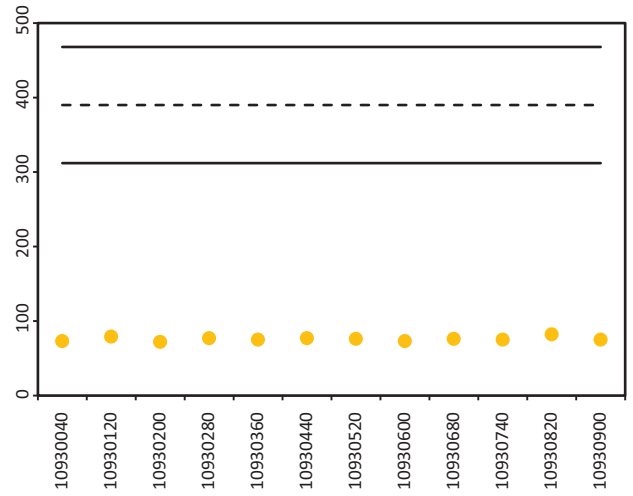
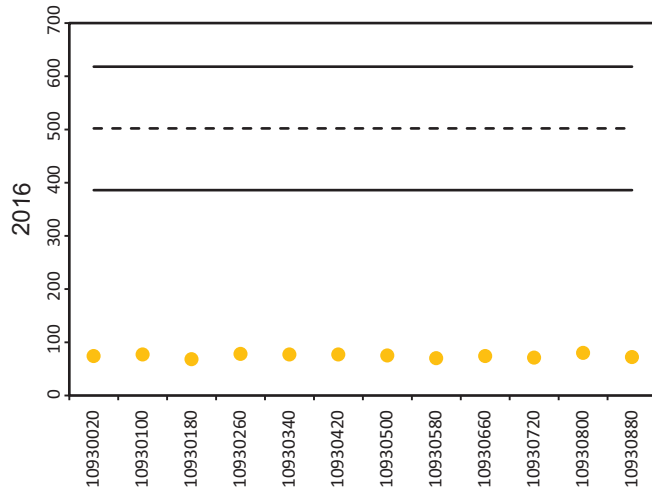
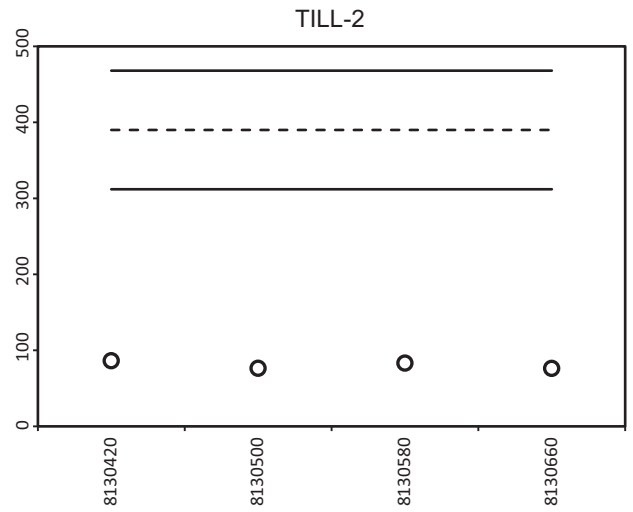
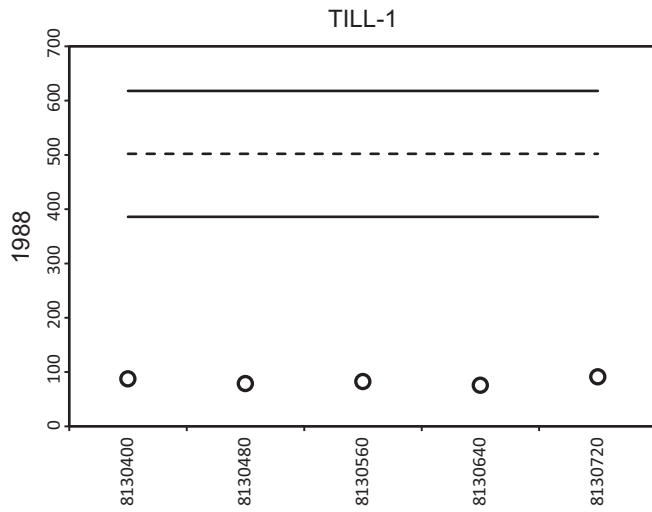
Zr (INAA)



Zr (INAA)



Zr (Multiacid ICP-OES)



Zr (Multiacid ICP-OES)

