

Phenotype Data Analysis Plots

PhenoData day range = 10 – 52

Analysis cutoff day = 52

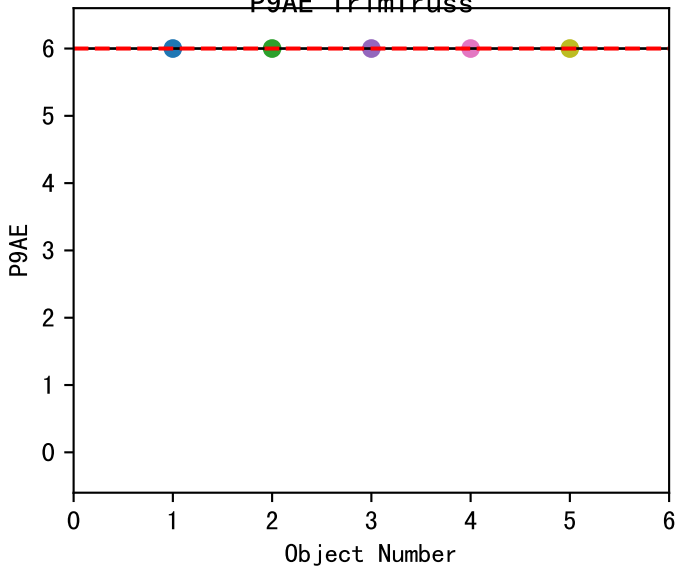
NC11 P9

2025-05-23 (Day 53)

TrussNodeMaxPerStem (Def=6.0 Set=6)

avg1=6.0~0% avg2=na

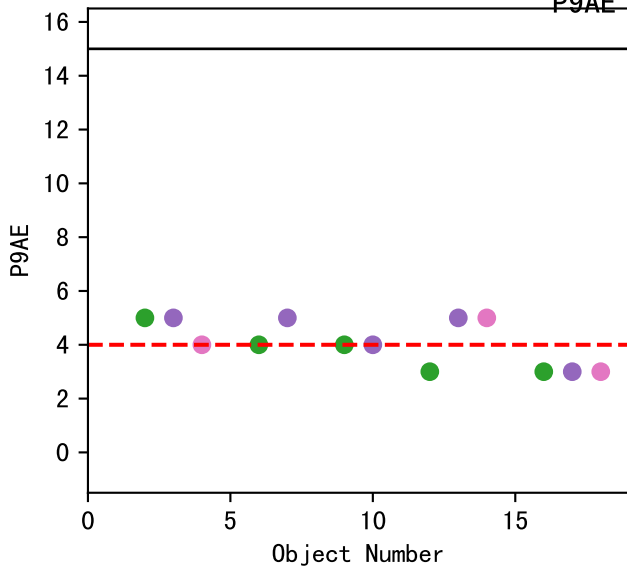
P9AE TrimTruss



FruitNumAvgPerTruss (Def=15 Set=4)

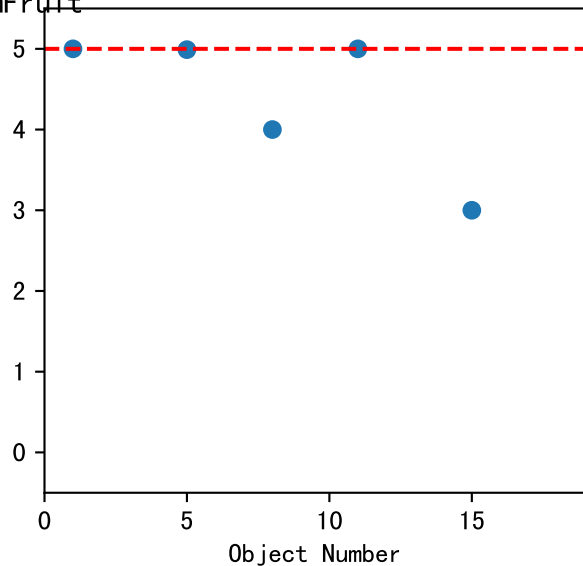
avg1=4.0~22% avg2=na

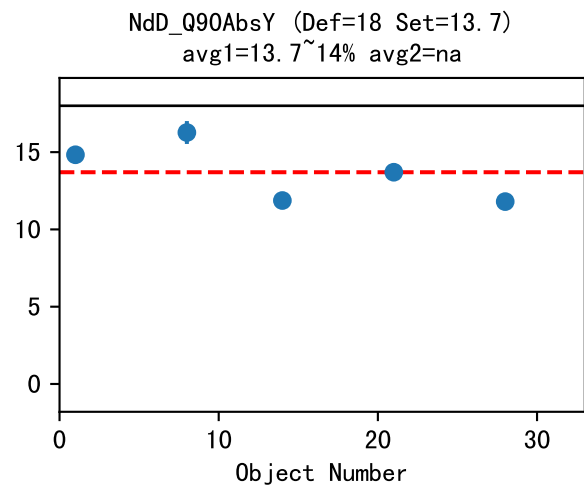
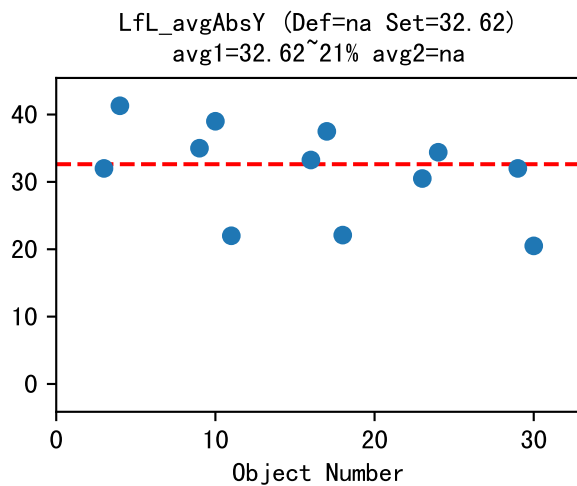
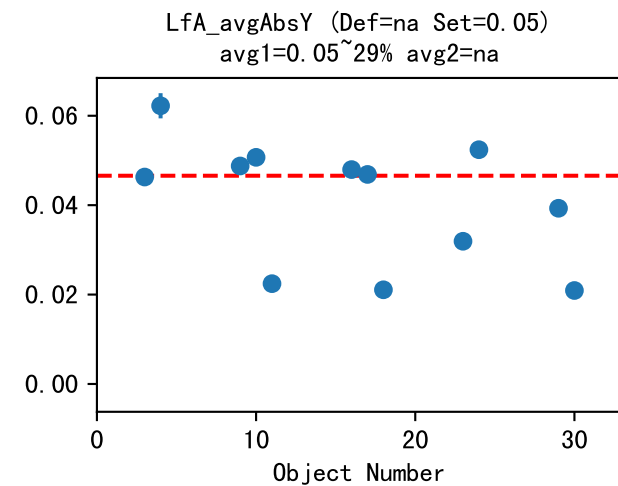
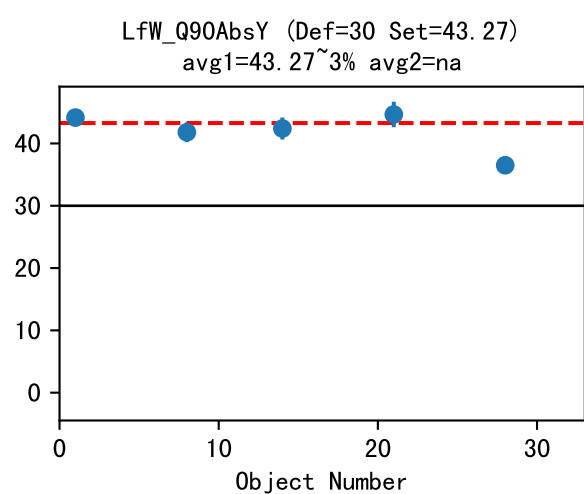
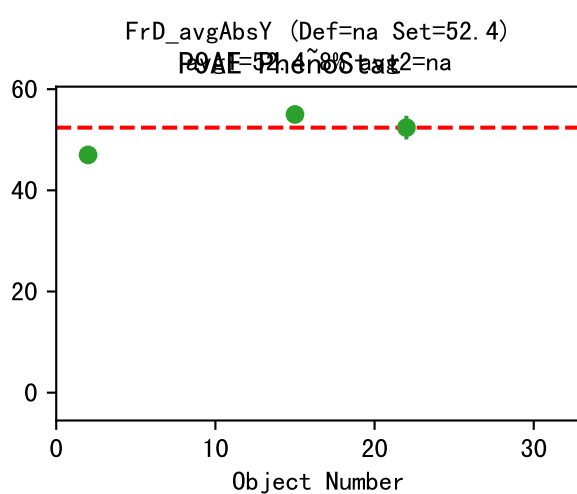
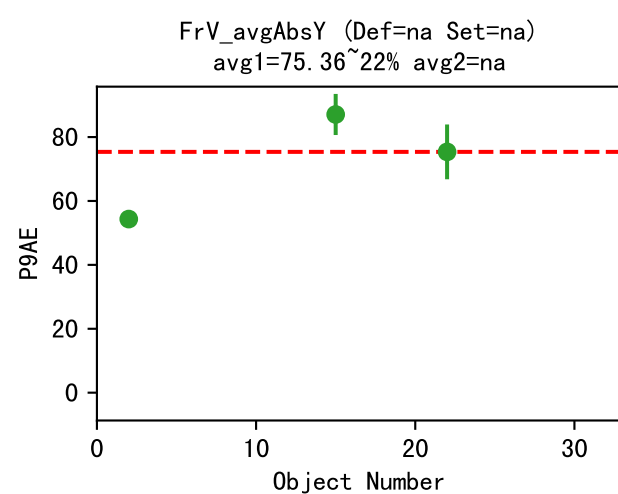
P9AE TrimFruit



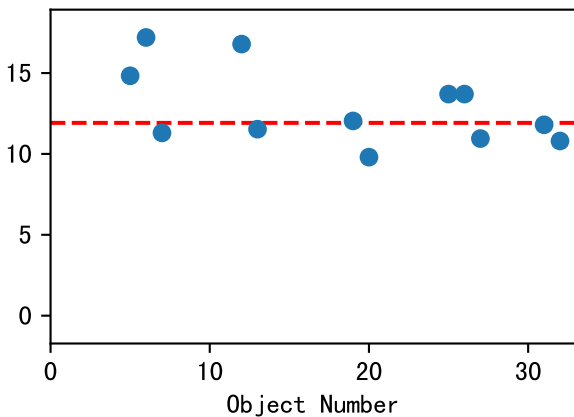
FruitNumMaxPerTruss (Def=na Set=5)

avg1=5.0~18% avg2=na

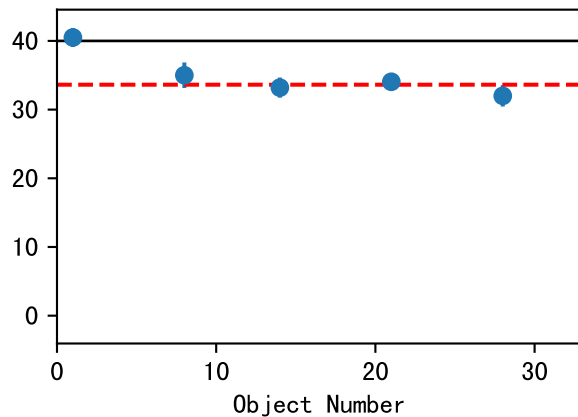




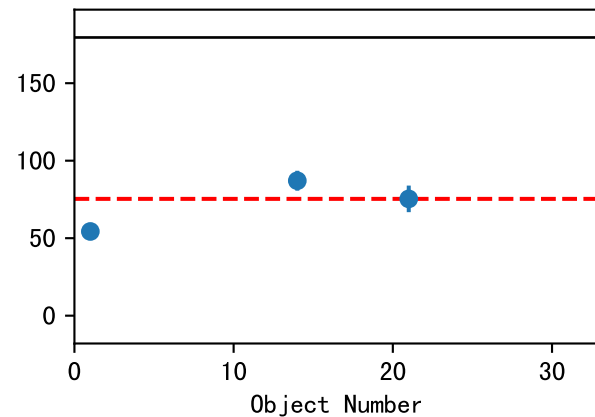
NdD\_avgAbsY (Def=na Set=11.92)  
avg1=11.92~20% avg2=na



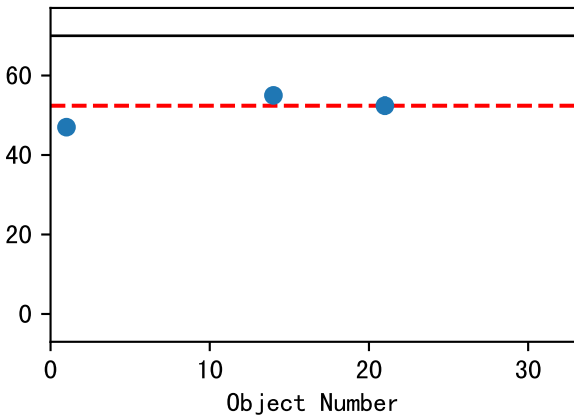
LfL\_Q90AbsY (Def=40 Set=33.62)  
avg1=33.62~45% avg2=na



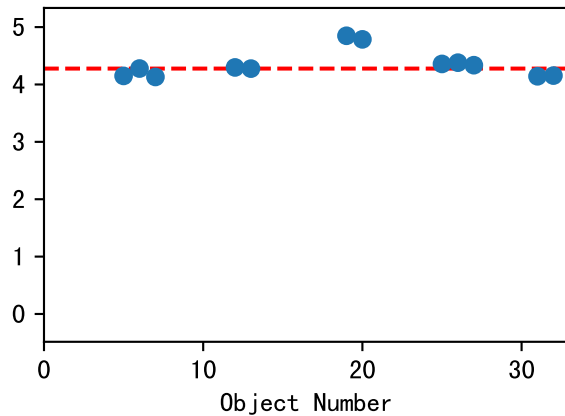
FrV\_Q90AbsY (Def=179.5 Set=179.5)  
avg1=75.36~22% avg2=na



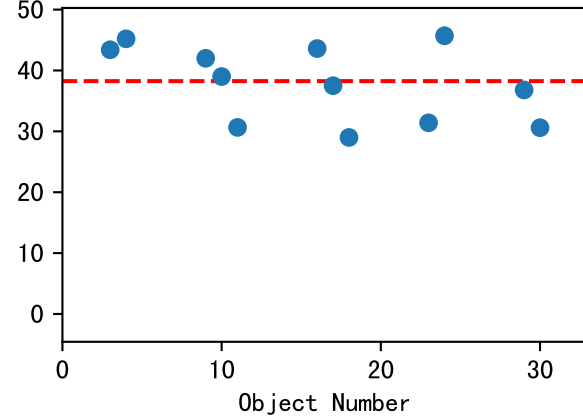
FrD\_Q90AbsY (Def=70 Set=52.4)  
avg1=52.4~8% avg2=na



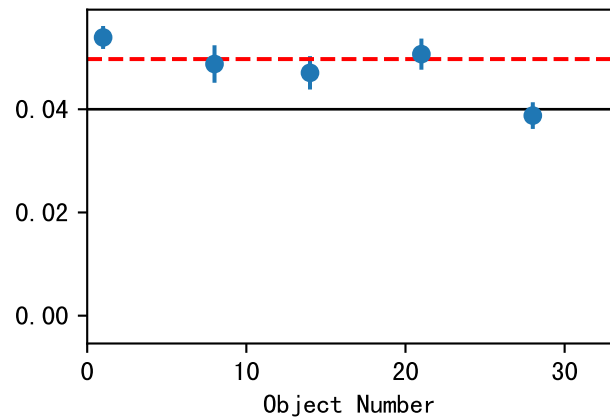
NdL\_avgAbsY (Def=na Set=4.28)  
avg1=4.28~2% avg2=na



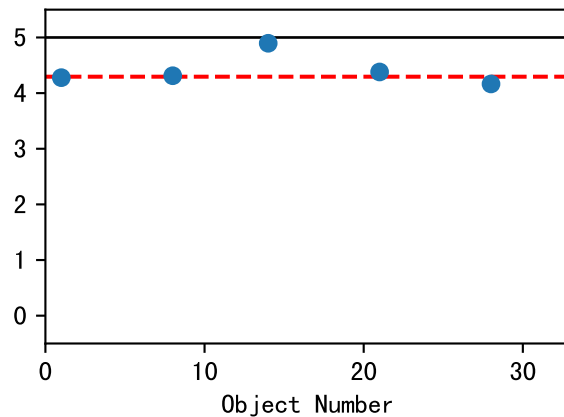
LfW\_avgAbsY (Def=na Set=38.25)  
avg1=38.25~16% avg2=na



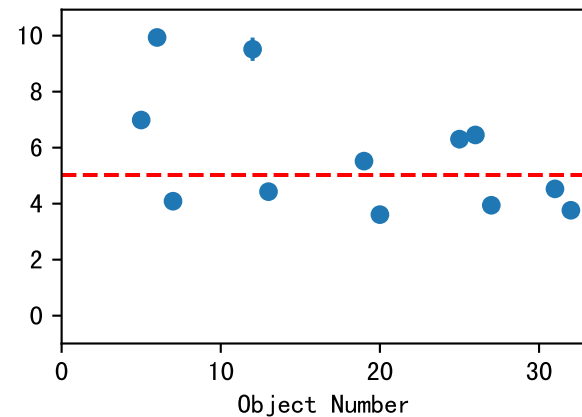
LfA\_Q90AbsY (Def=0.04 Set=0.05)  
avg1=0.05~6% avg2=na



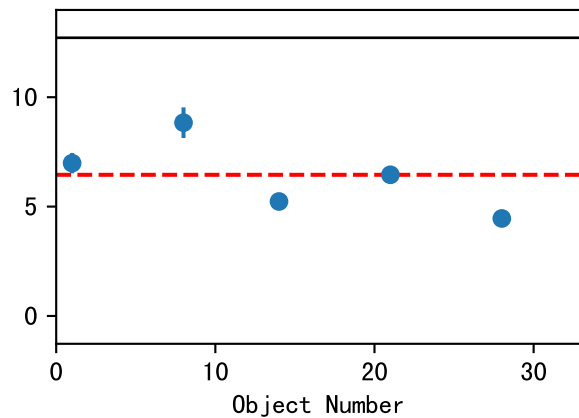
NdL\_Q90AbsY (Def=5 Set=4.3)  
avg1=7.13~28% avg2=na



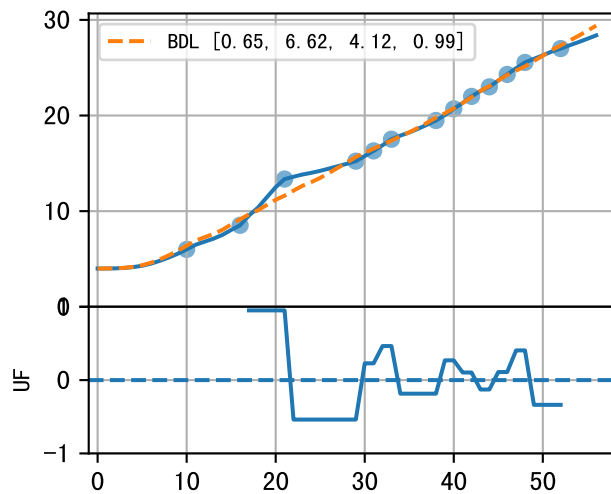
NdV\_avgAbsY (Def=na Set=5.02)  
avg1=5.02~43% avg2=na



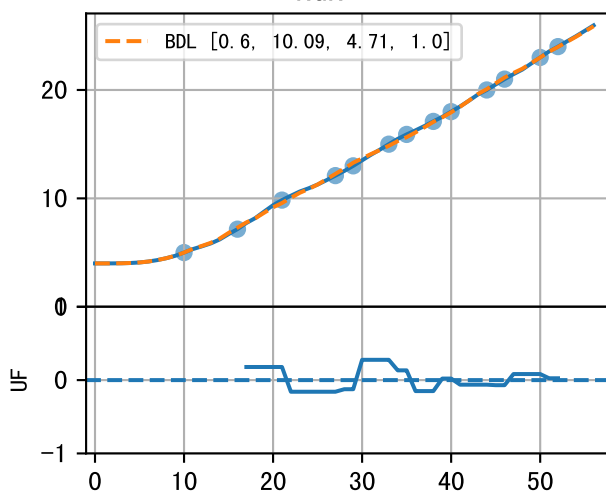
NdV\_Q90AbsY (Def=12.72 Set=6.45)  
avg1=6.45~26% avg2=na



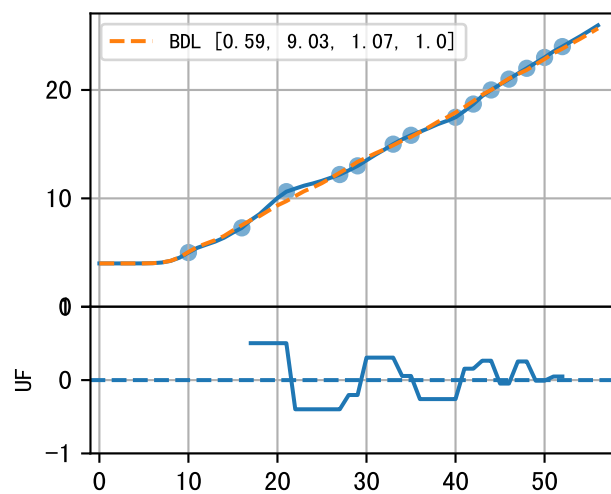
P9AE-065-3 (fit failed)



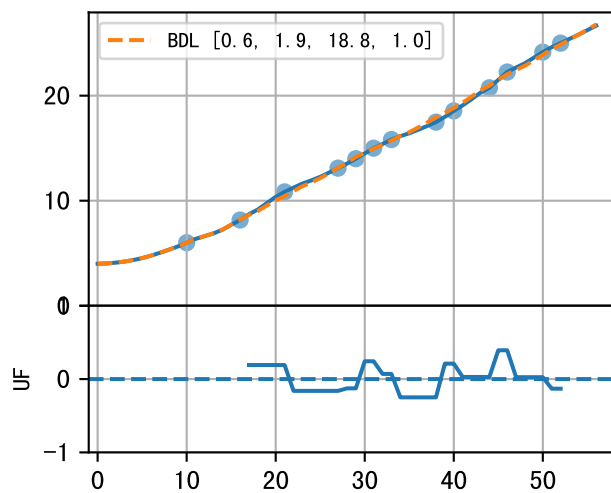
P9AE-077-12 (fit failed)



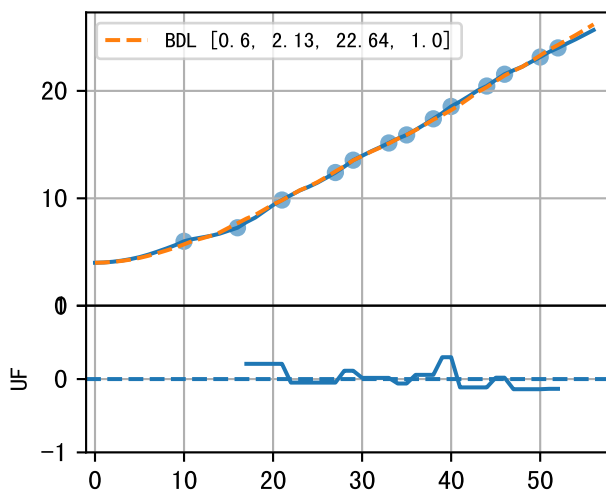
P9AE-089-25 (fit failed)



P9AE-100-19 (fit failed)

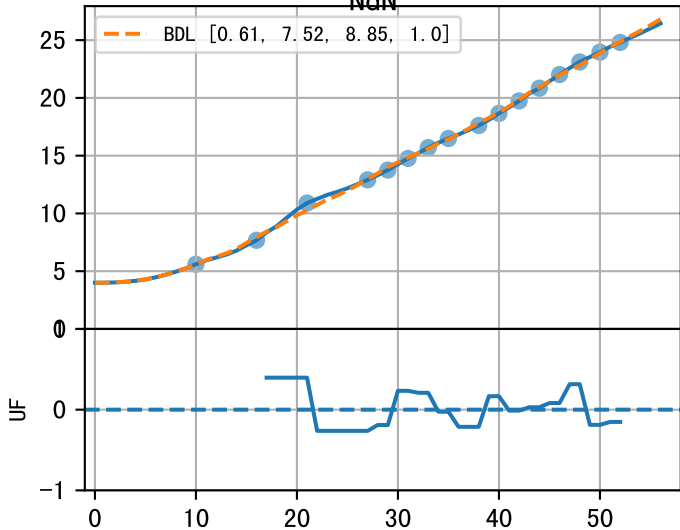


P9AE-111-7 (fit failed)



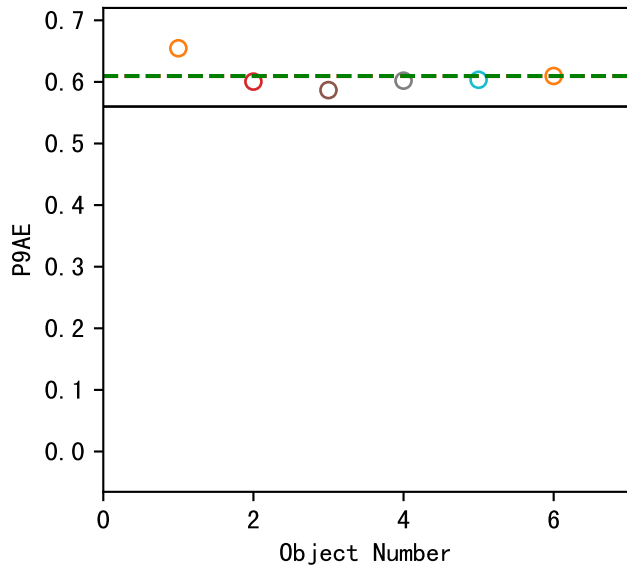
P9AEavg (fit failed)

NdN

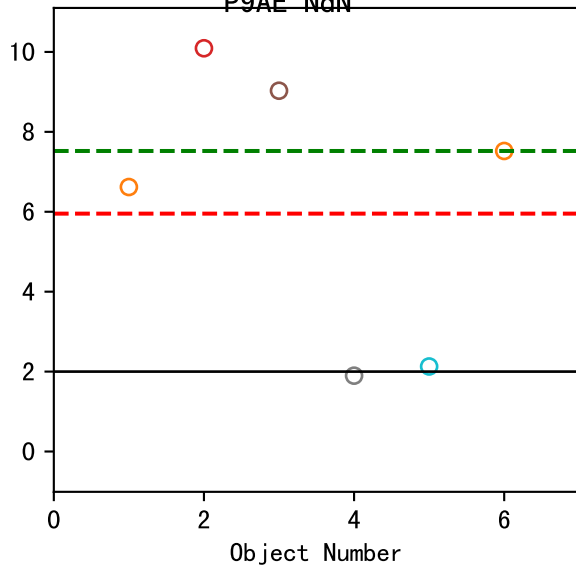




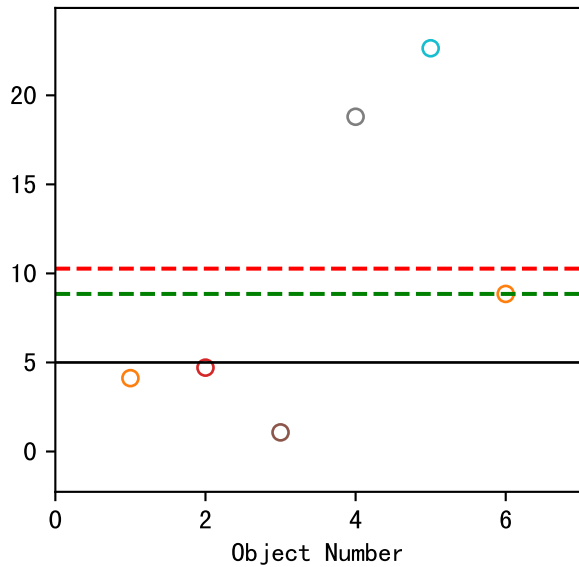
a (Def=0.56 Set=0.61)  
avg1=0.61(fail) avg2=0.61



dm (Def=2 Set=7.52)  
avg1=5.95(fail) avg2=7.52

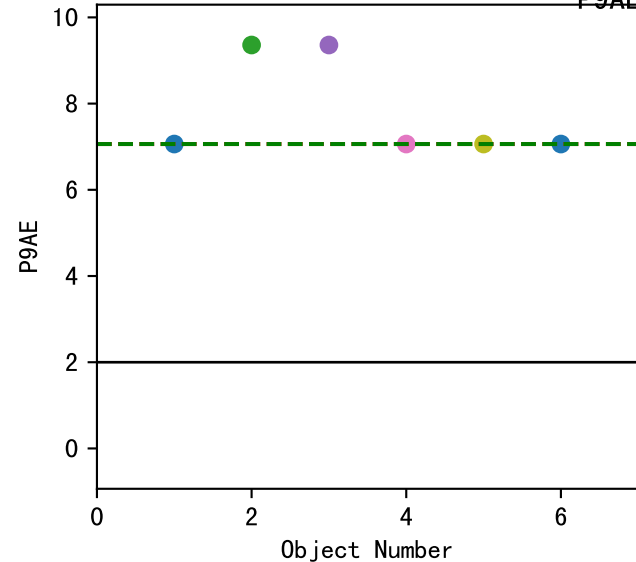


de (Def=5 Set=8.85)  
avg1=10.27(fail) avg2=8.85



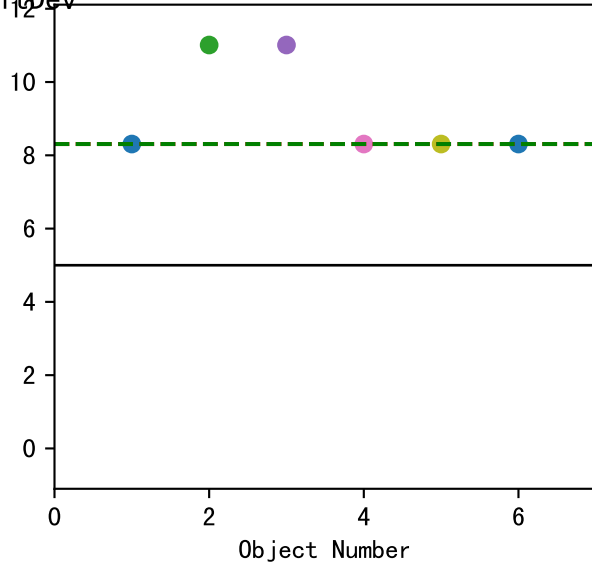
InitDev\_dm (Def=2 Set=7.06)  
avg1=7.06~18% avg2=7.06

P9AE

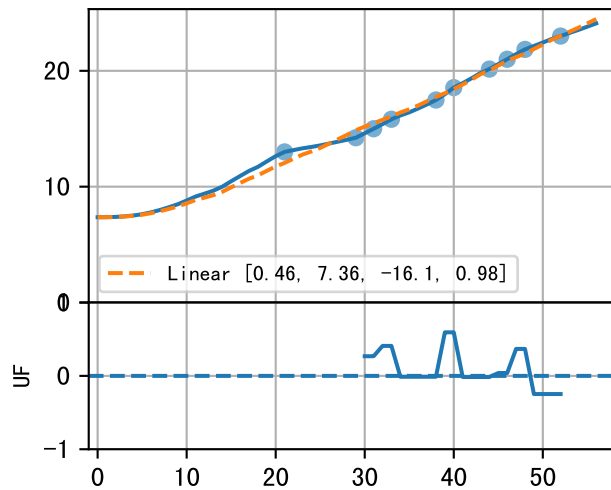


InitDev\_de (Def=5 Set=8.31)  
avg1=8.31~18% avg2=8.31

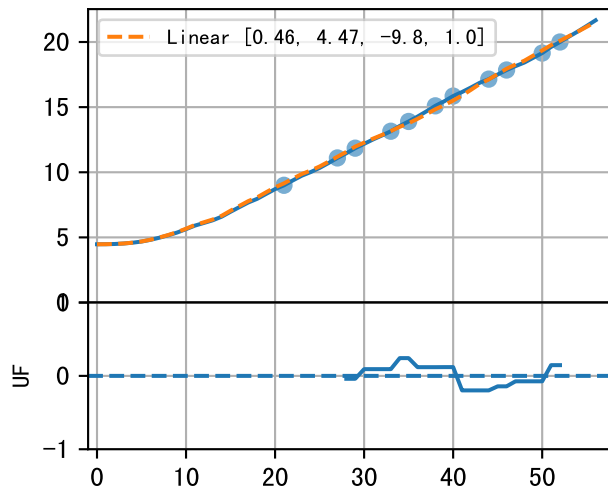
InitDev



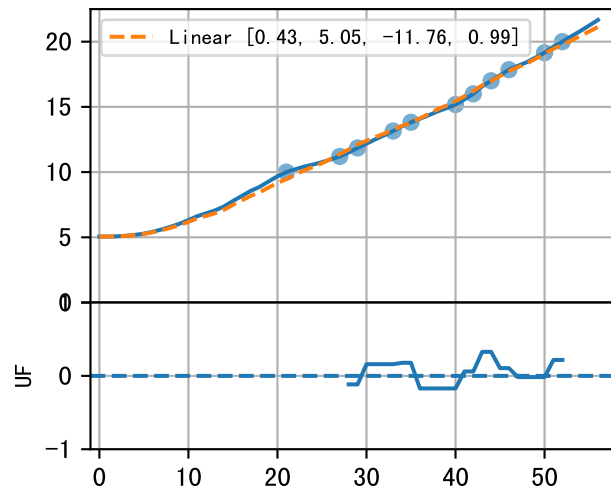
P9AE-065-3



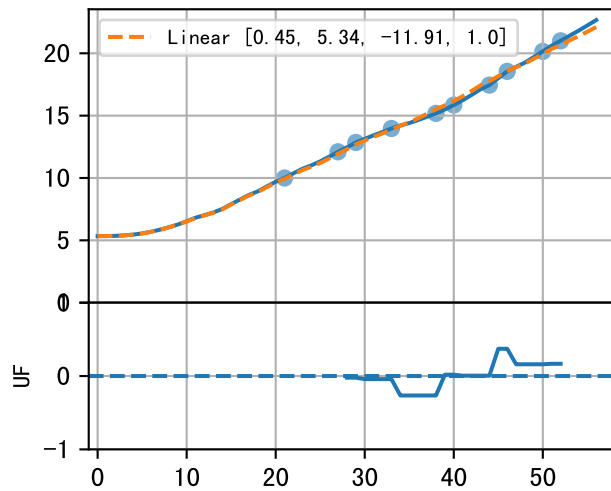
P9AE-077-32



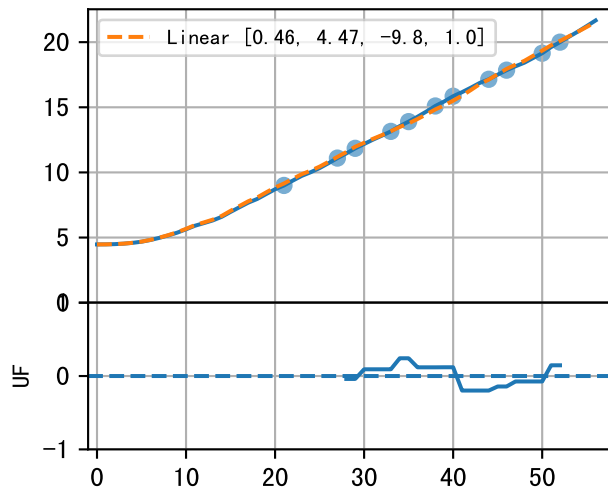
P9AE-089-25



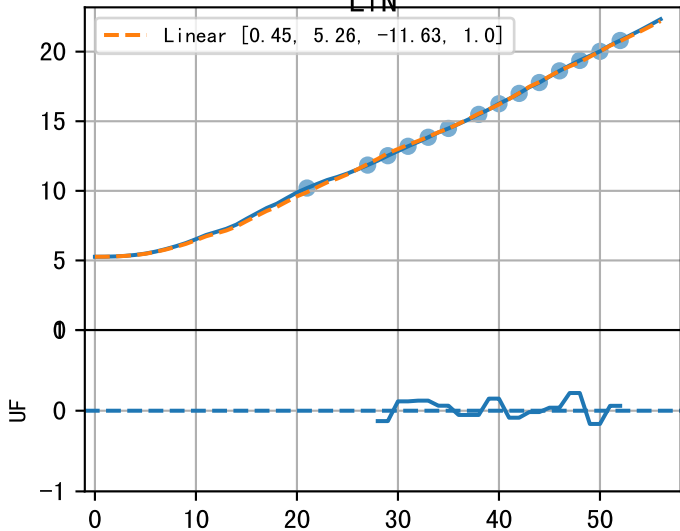
P9AE-100-19

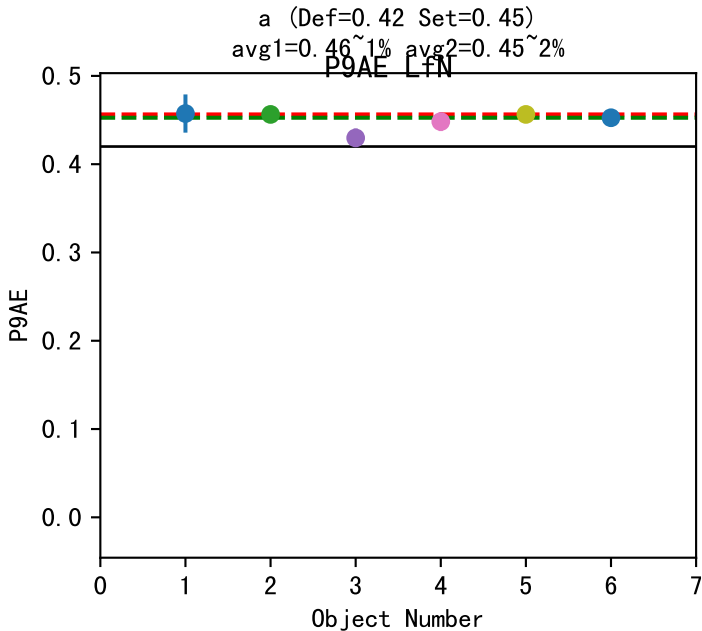


P9AE-111-7

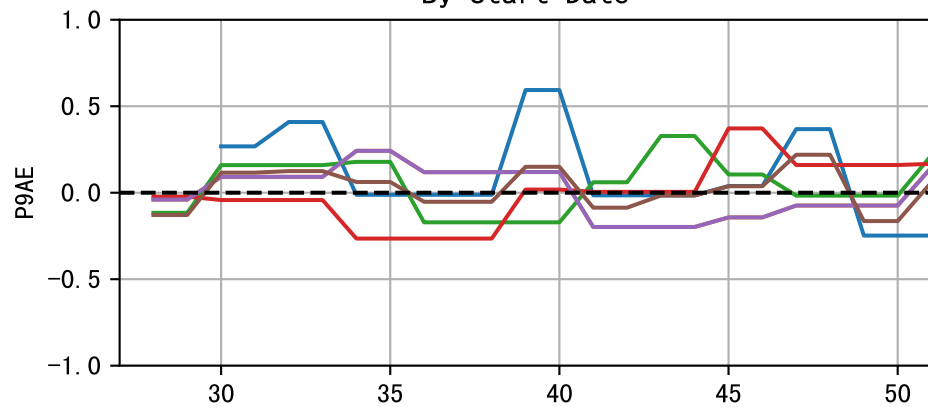


P9AEavg  
LfN

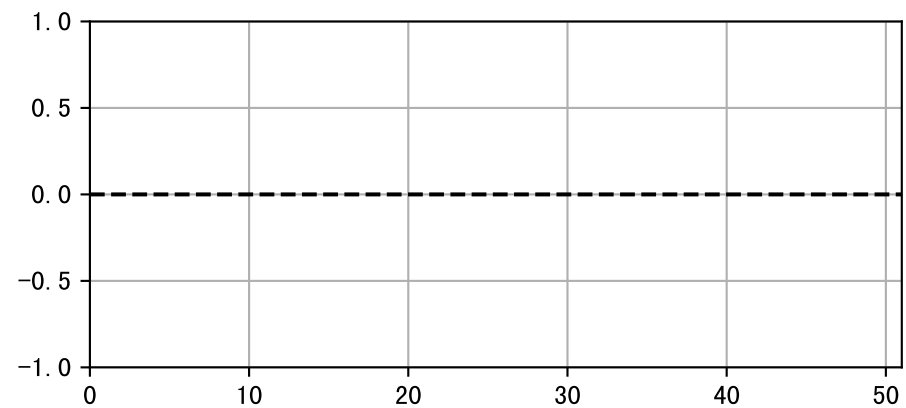
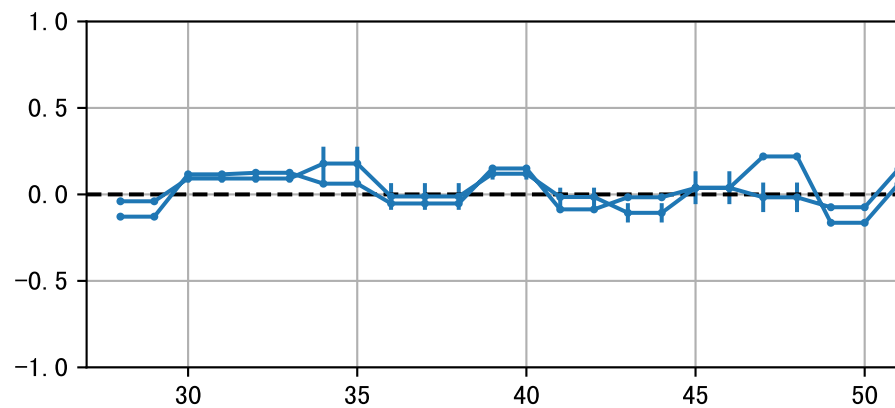
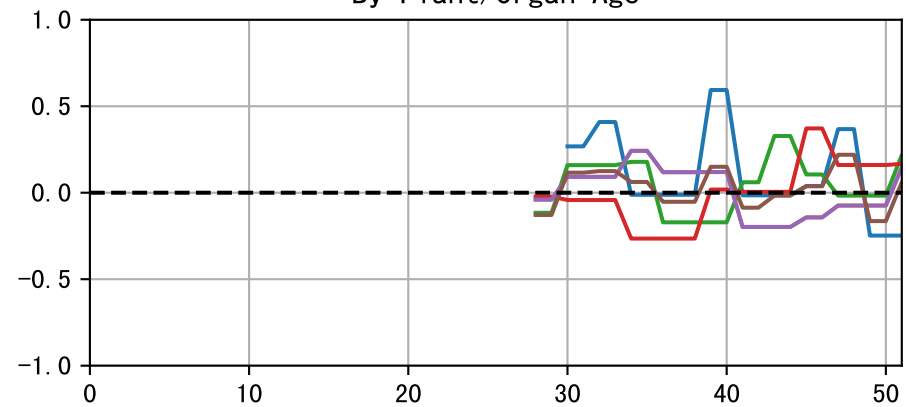




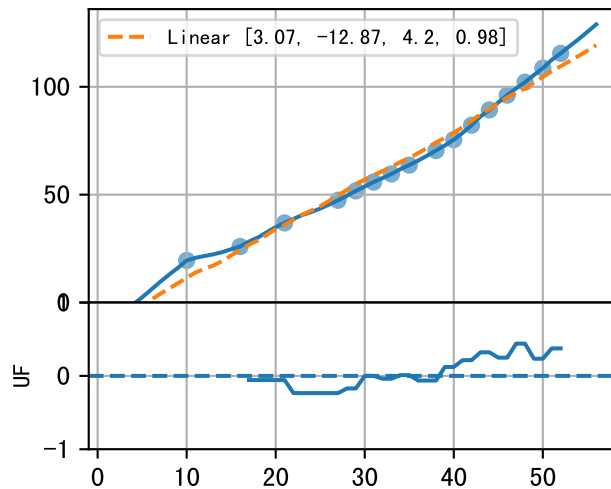
By Start Date



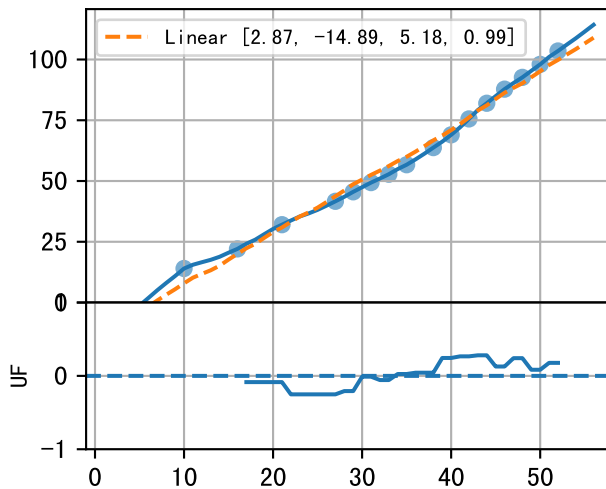
By Plant/Organ Age



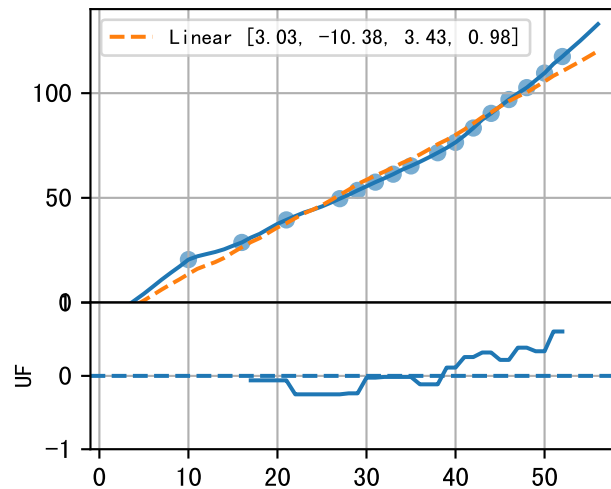
P9AE-065-3



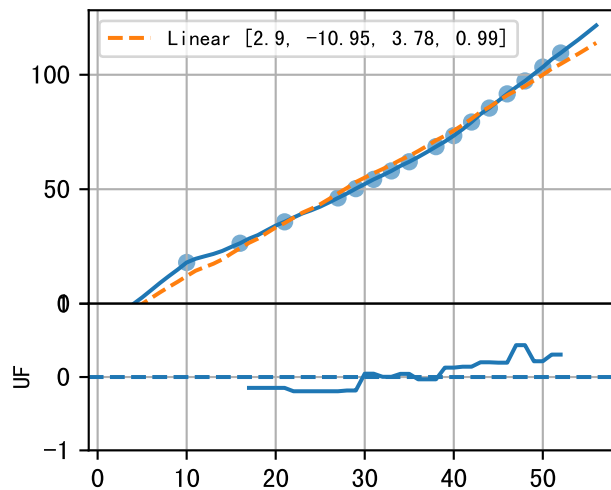
P9AE-077-32



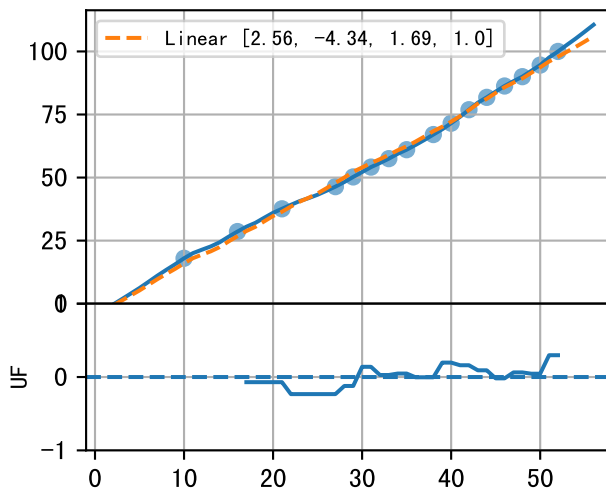
P9AE-089-25



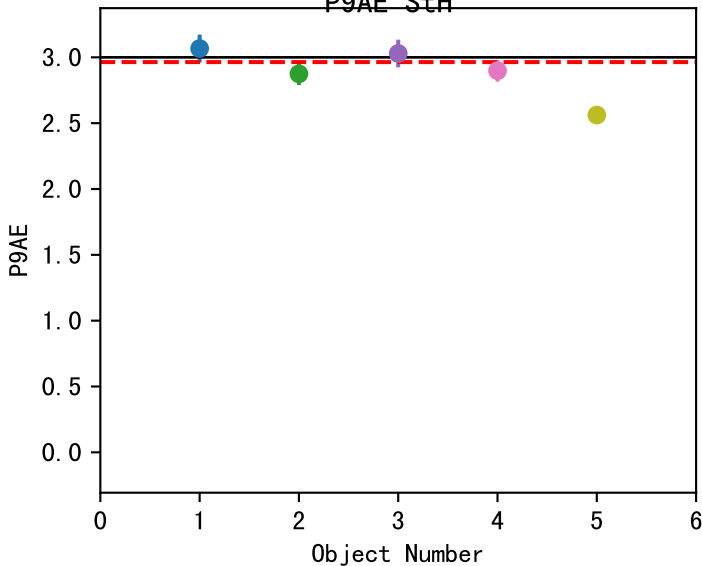
P9AE-100-19



P9AE-111-7



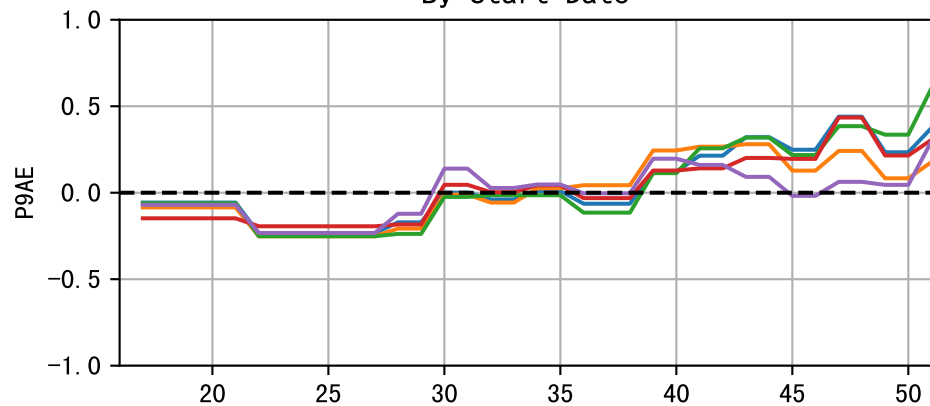
a (Def=3 Set=2.96)  
avg1=2.96~3% avg2=na



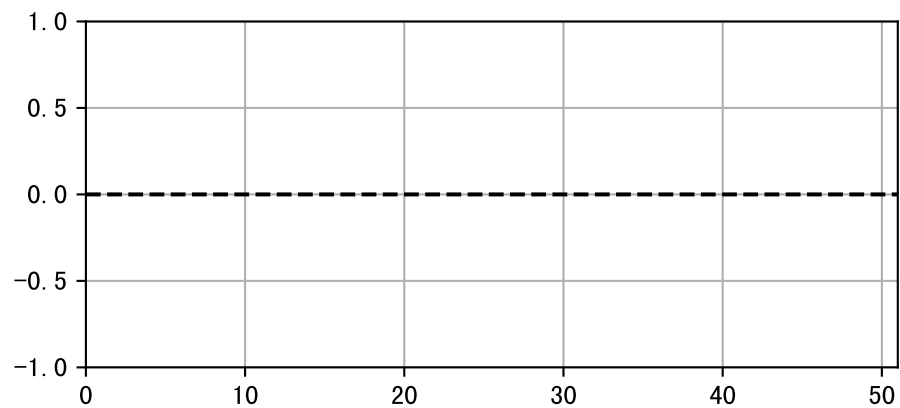
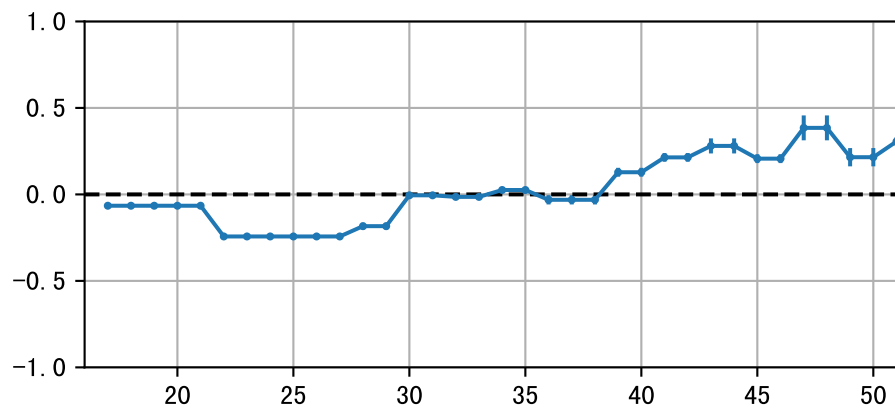
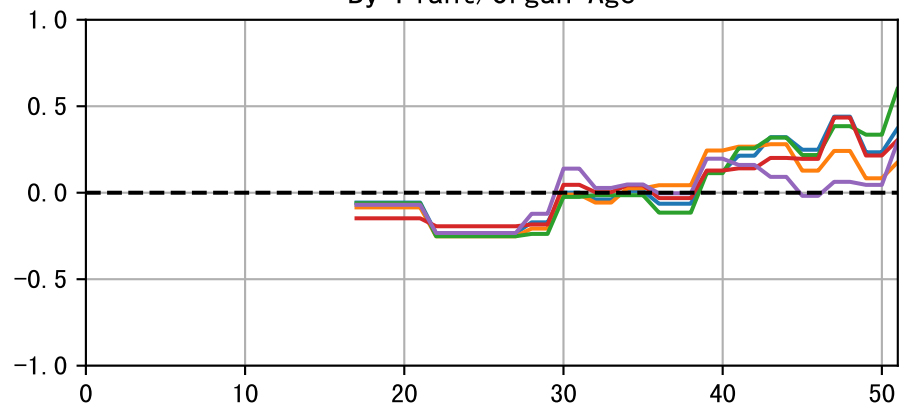


StH

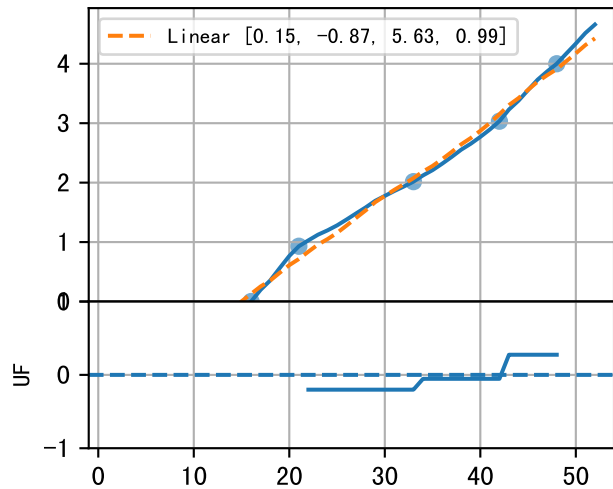
By Start Date



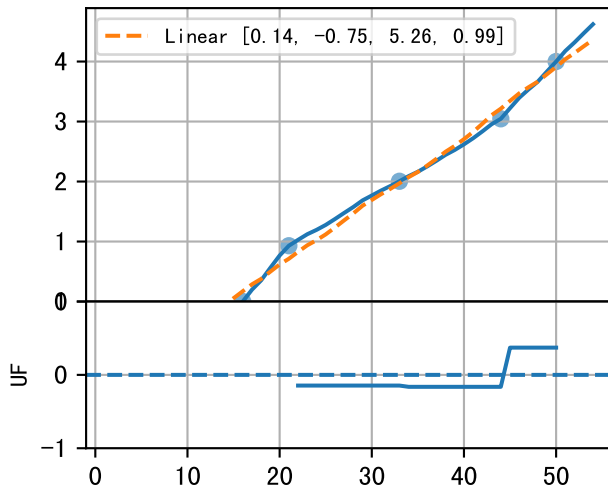
By Plant/Organ Age



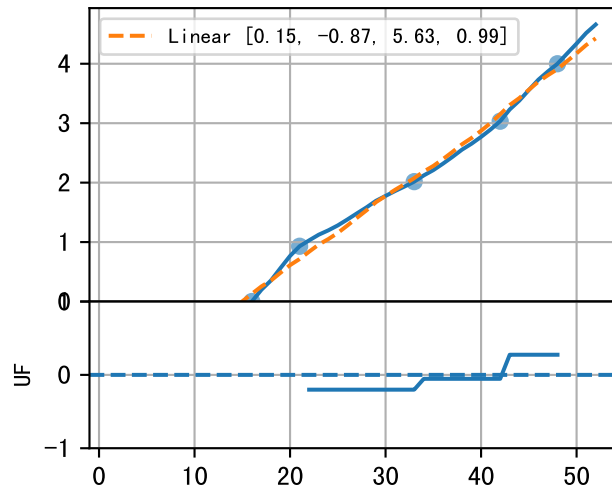
P9AE-065-3



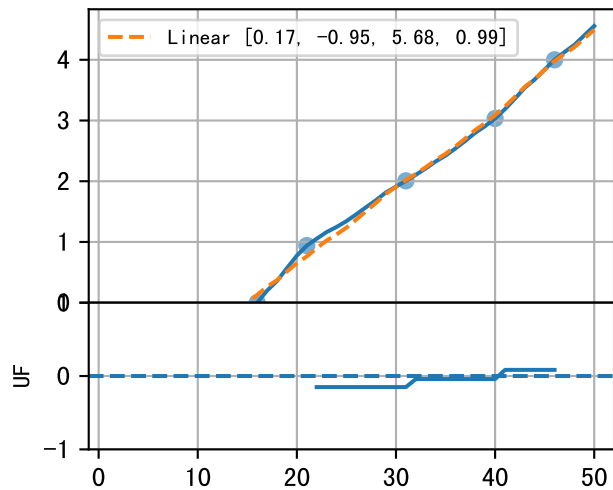
P9AE-077-32



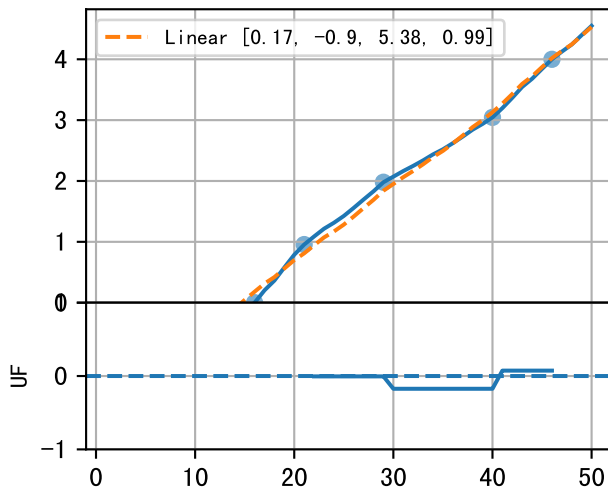
P9AE-089-25



P9AE-100-19



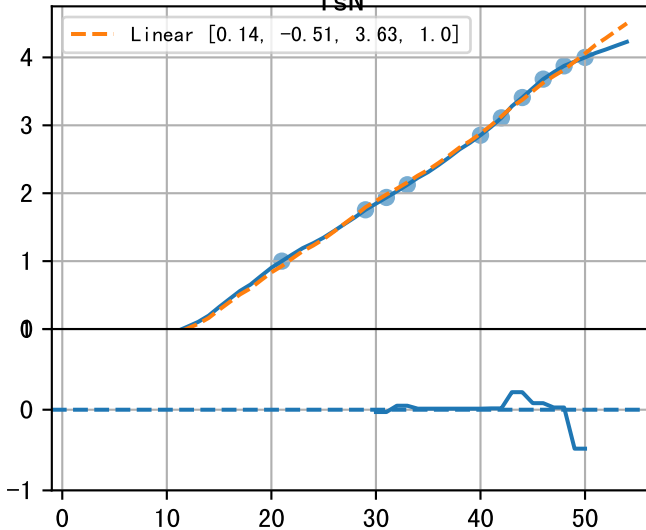
P9AE-111-7



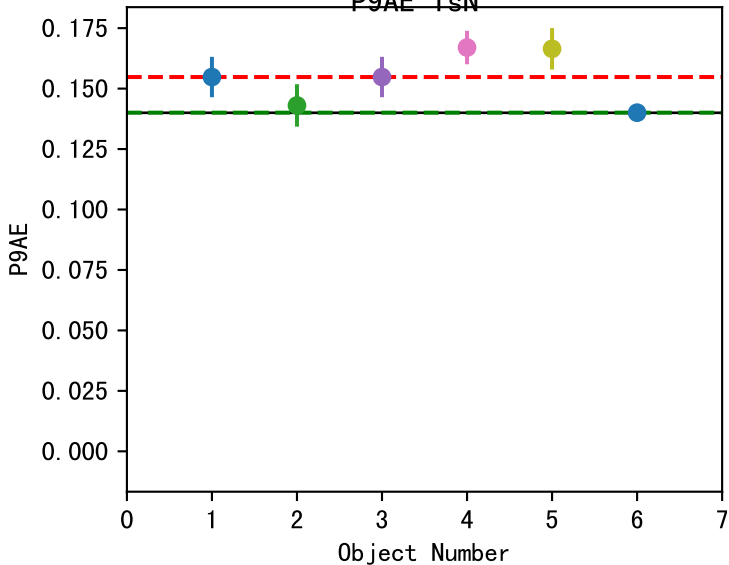
P9AEavg  
T<sub>SN</sub>

Linear [0.14, -0.51, 3.63, 1.0]

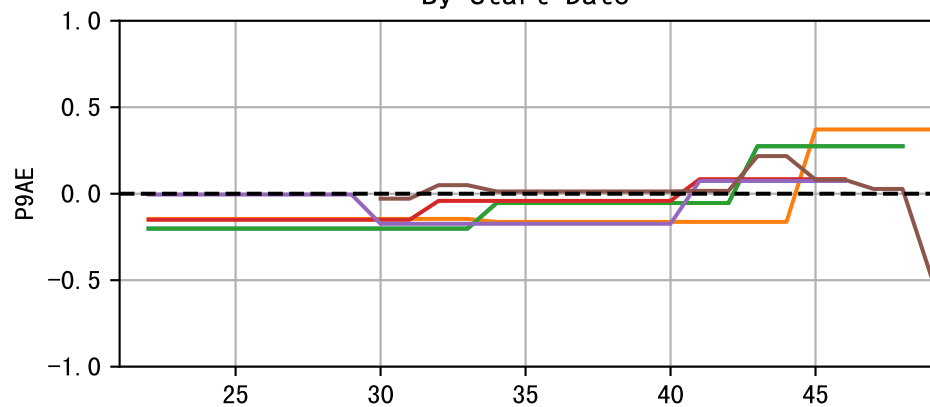
UF



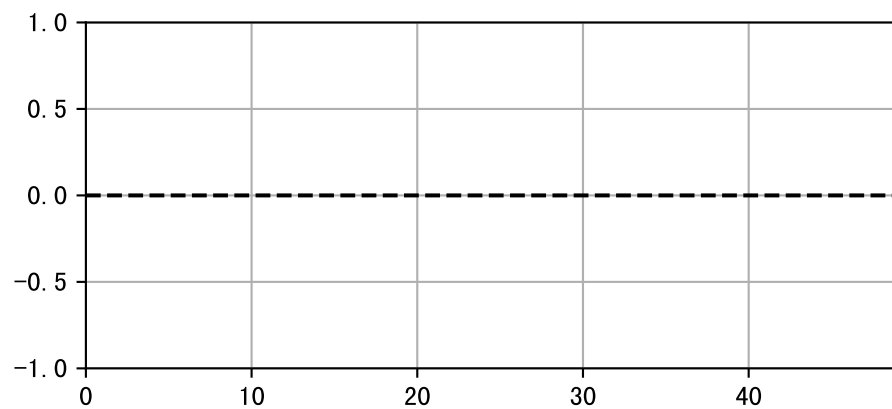
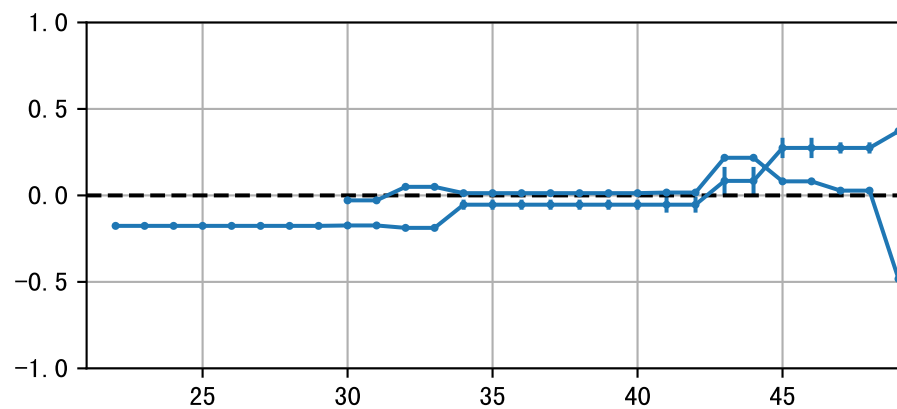
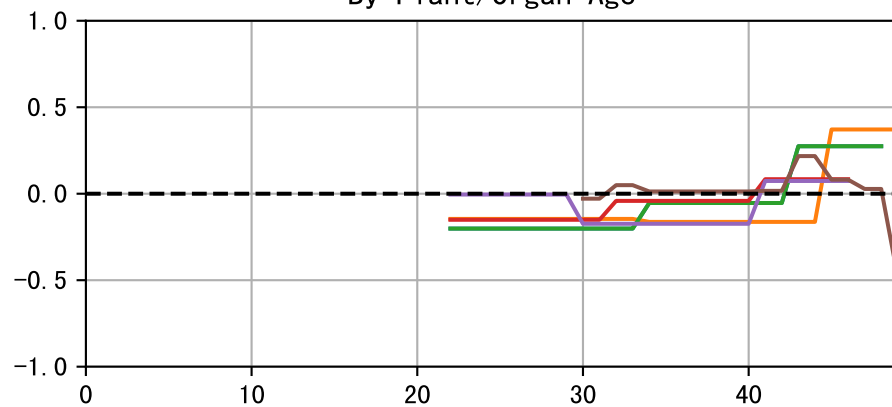
a (Def=0.14 Set=0.14)  
avg1=0.15 $\sim$ 6% avg2=0.14 $\sim$ 3%  
P9AE TsN



By Start Date

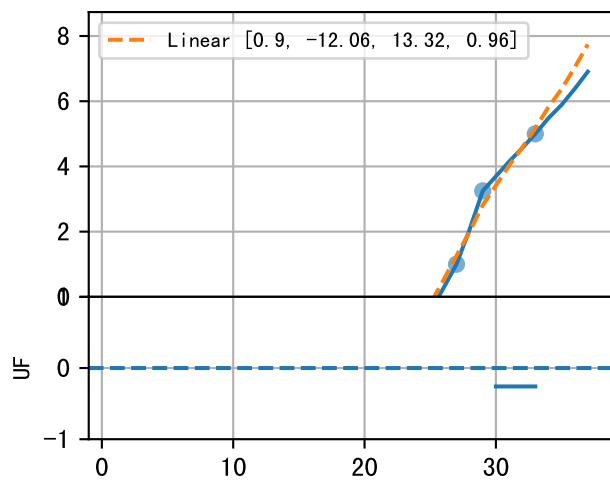


By Plant/Organ Age

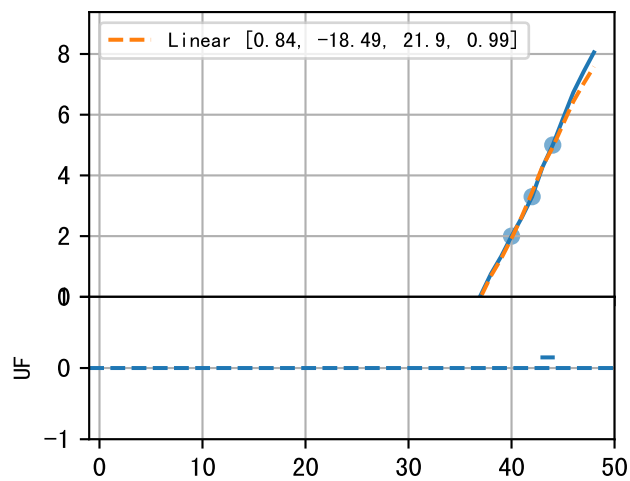


ErN

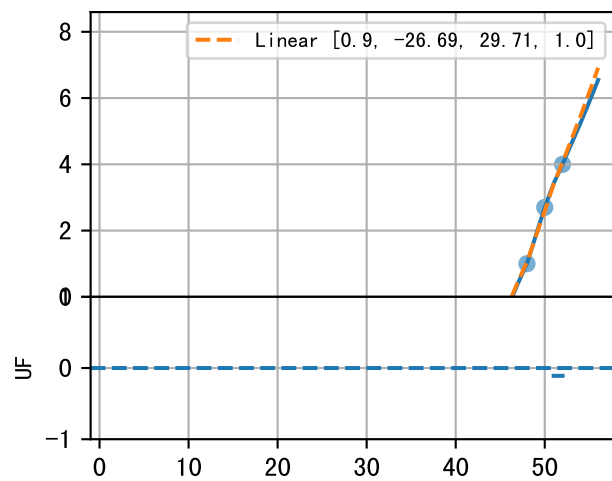
P9AE-065-3T1



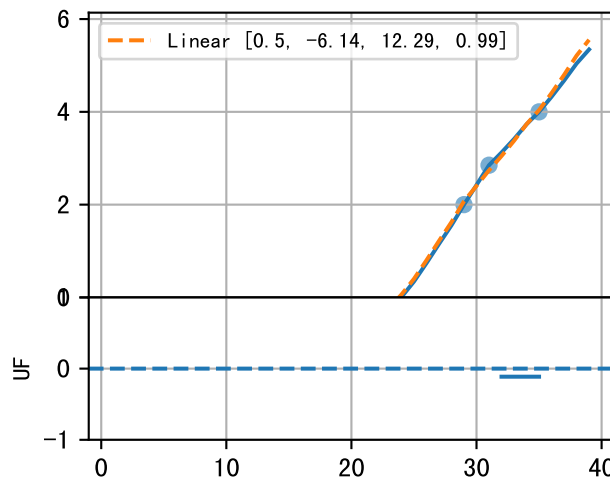
P9AE-065-3T2



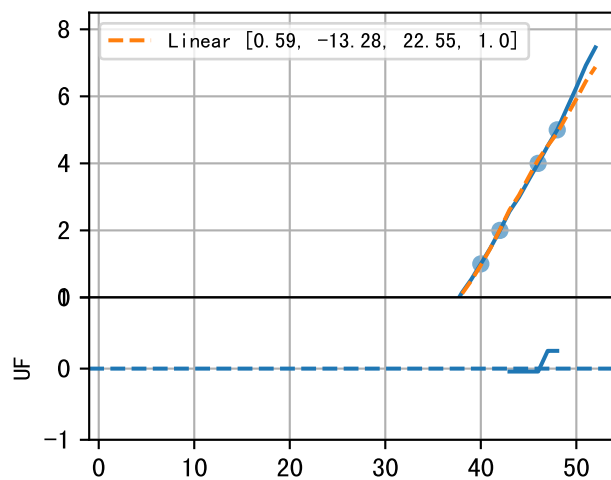
P9AE-065-3T3



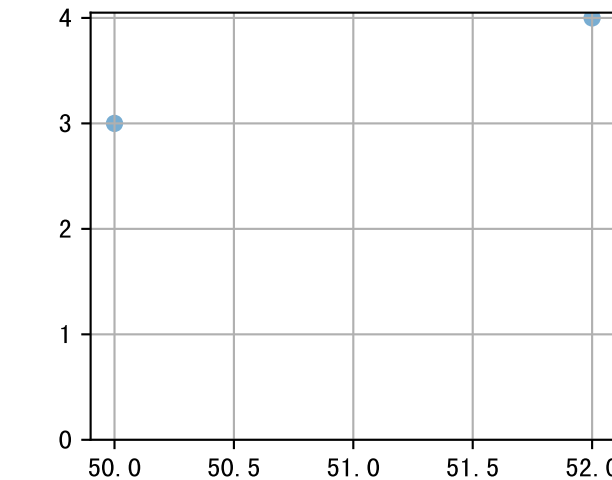
P9AE-077-32T1



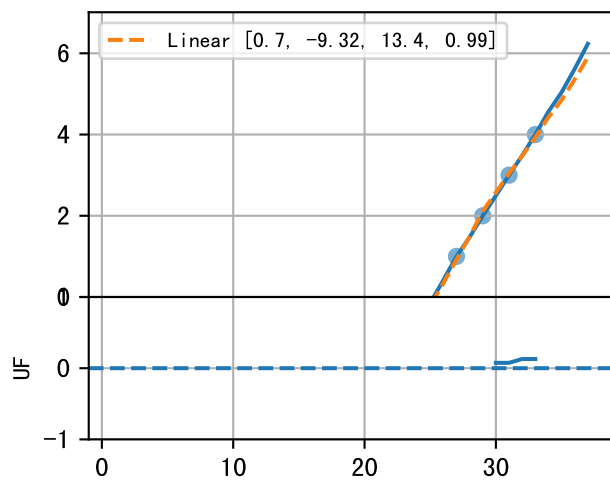
P9AE-077-32T2



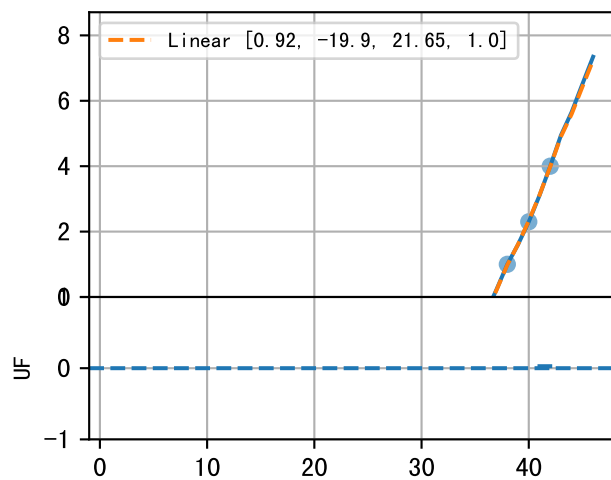
P9AE-077-32T3 (fit failed)



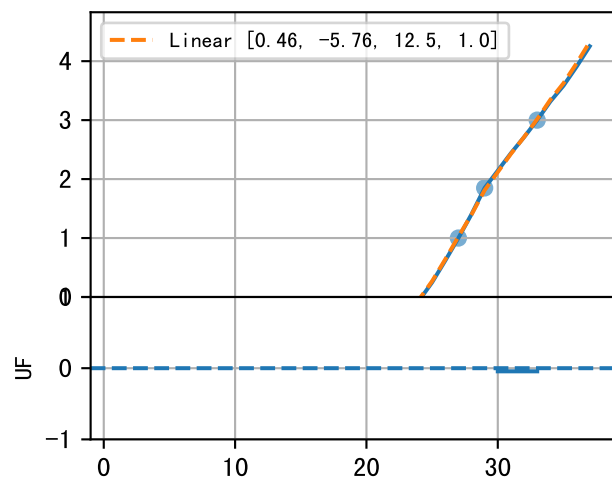
P9AE-089-25T1



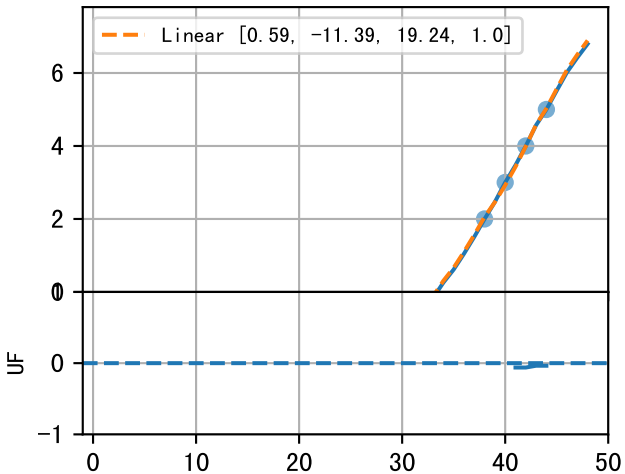
P9AE-089-25T2



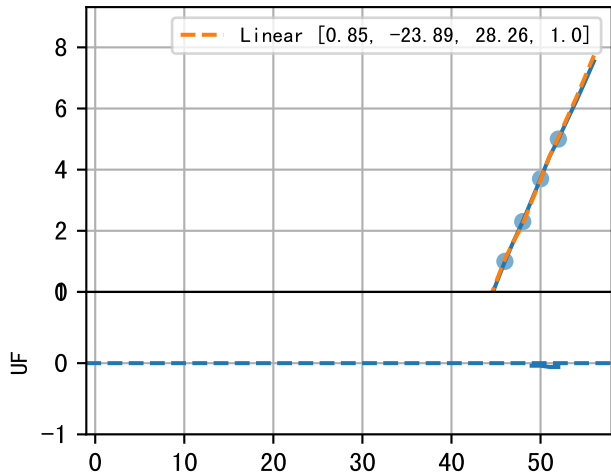
P9AE-100-19T1



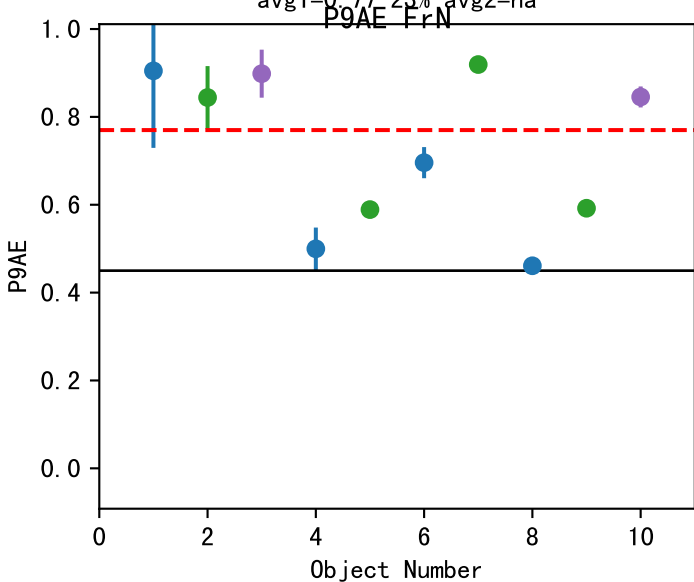
P9AE-100-19T2



P9AE<sup>ErN</sup>-100-19T3



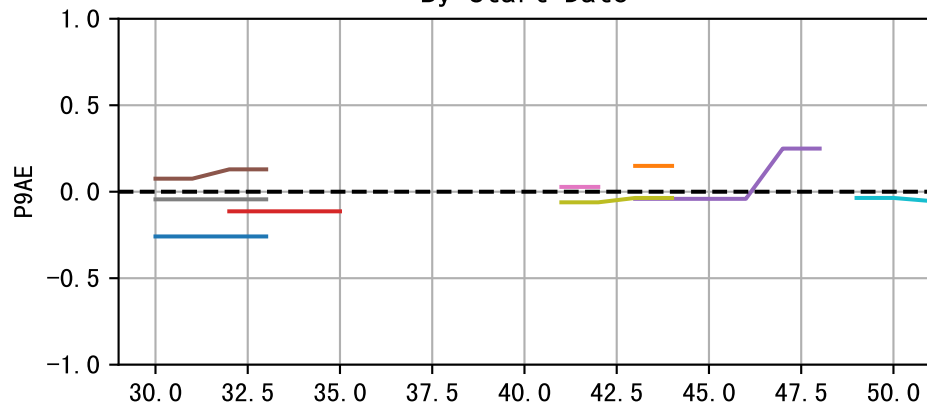
a (Def=0.45 Set=0.77)  
avg1=0.77~23% avg2=na



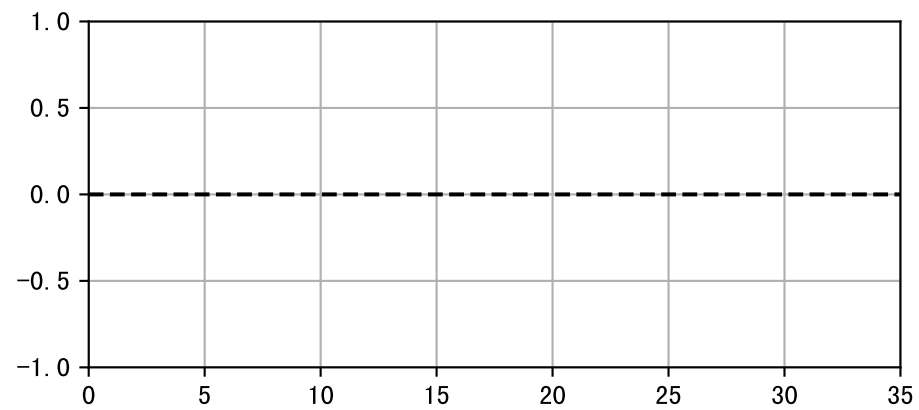
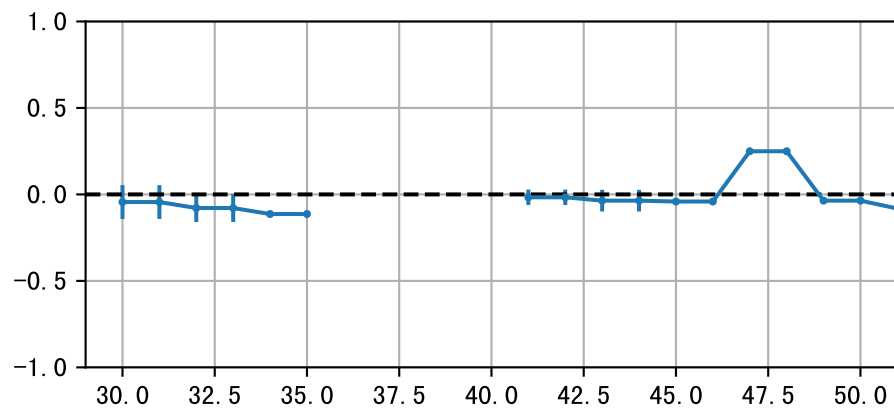
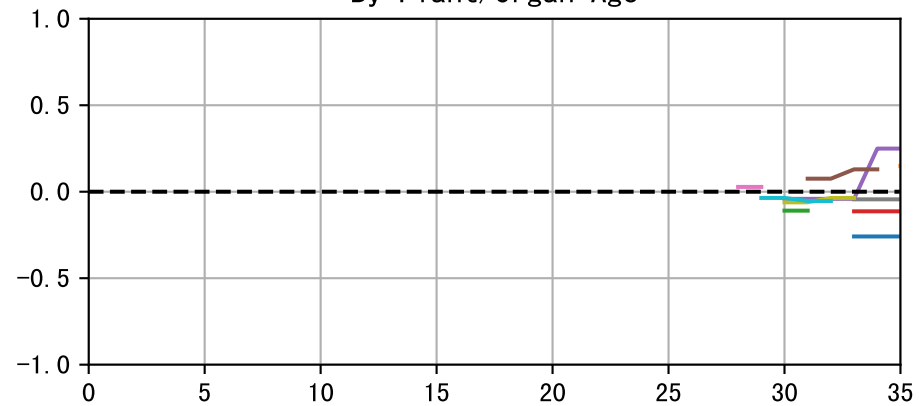


FrN

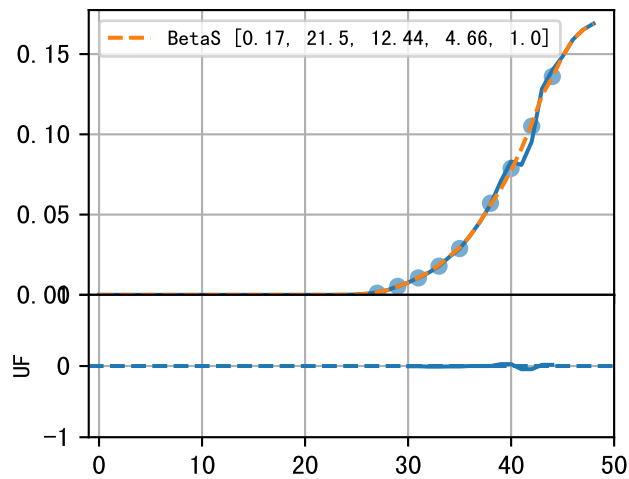
By Start Date



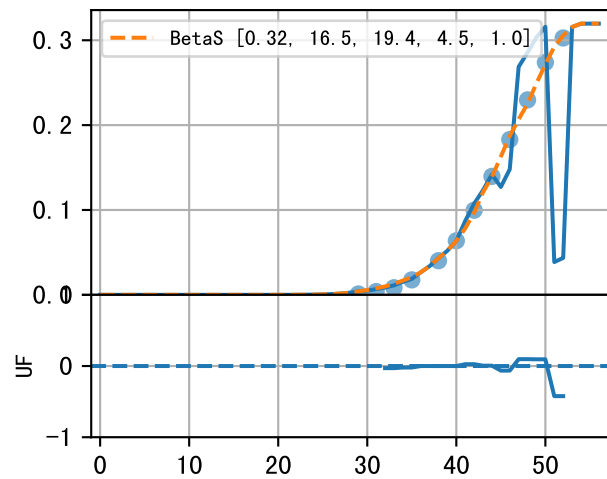
By Plant/Organ Age



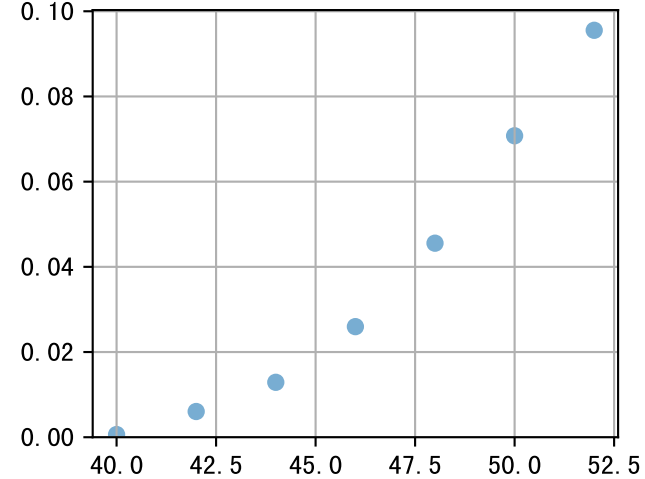
P9AE-065-3T1Fr1



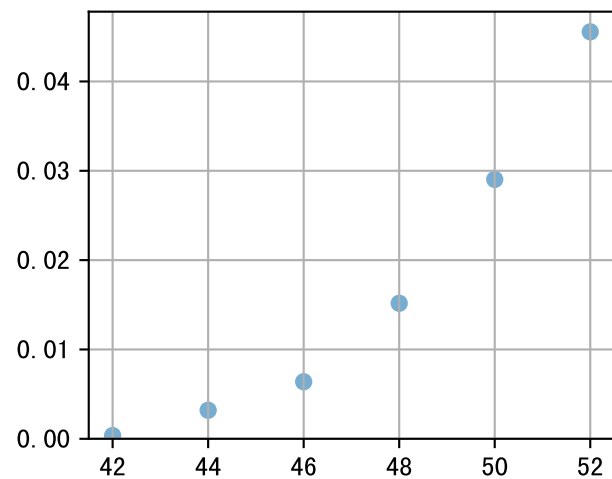
P9AE-065-3T1Fr5



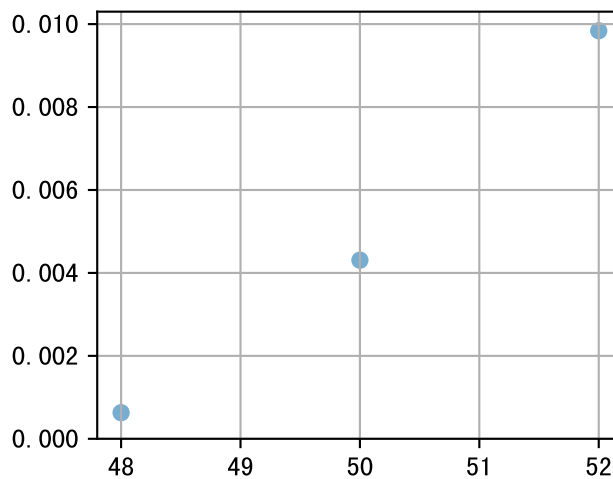
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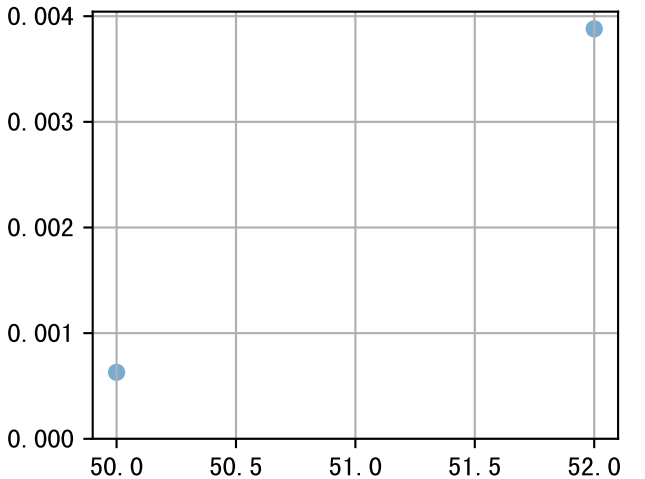
P9AE-065-3T2Fr5 (fit failed)



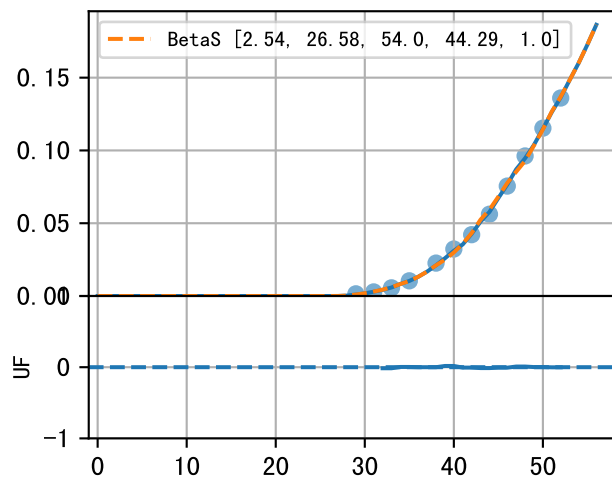
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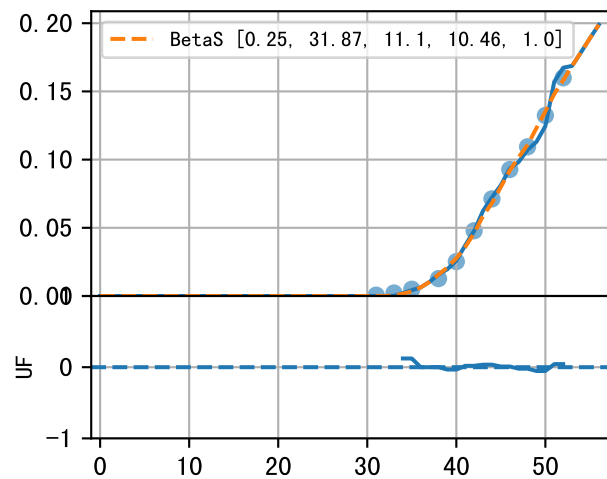
P9AE-065-3T3Fr5 (fit failed)



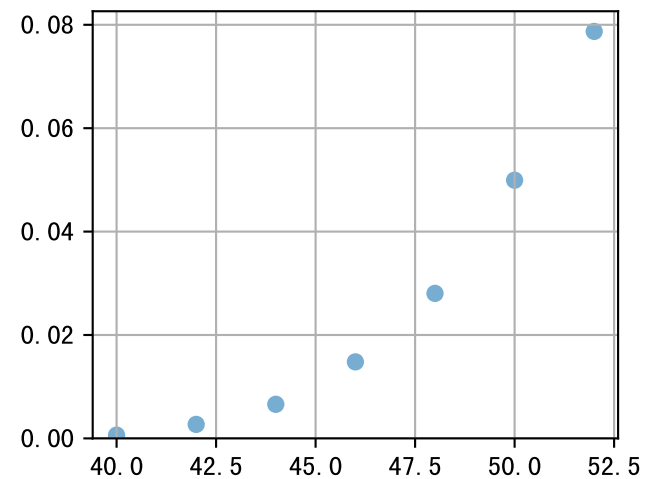
P9AE-077-32T1Fr1 (fit failed)



P9AE-077-32T1Fr5



P9AE-077-32T2Fr1 (fit failed)

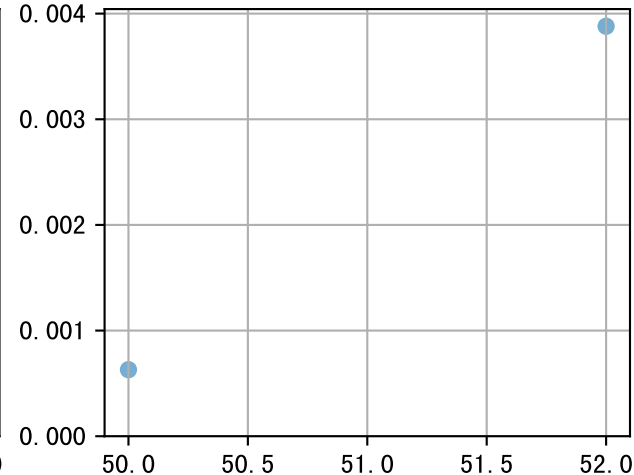
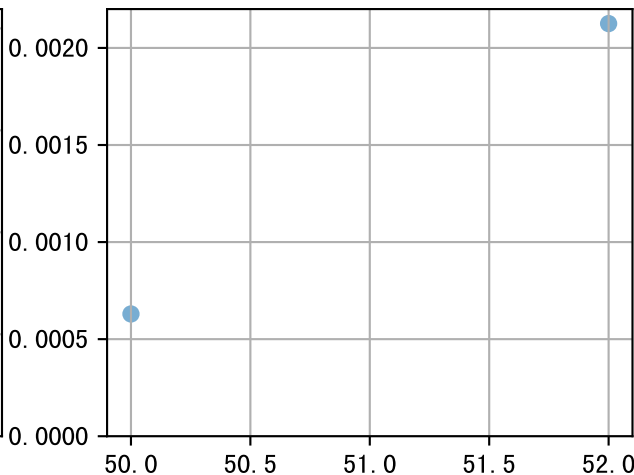
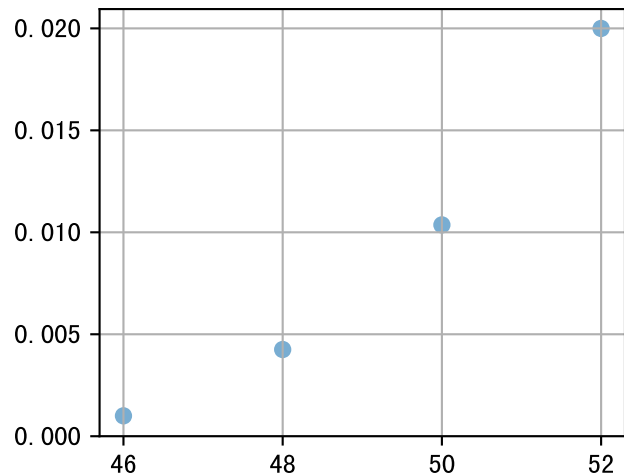


FrV

P9AE-077-32T2Fr5 (fit failed)

P9AE-077-32T3Fr1 (fit failed)

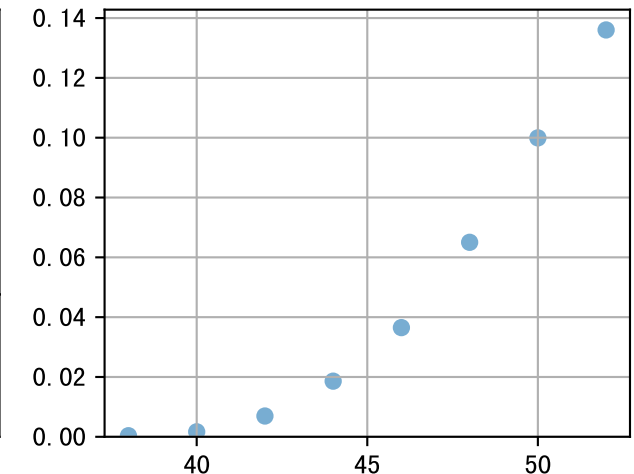
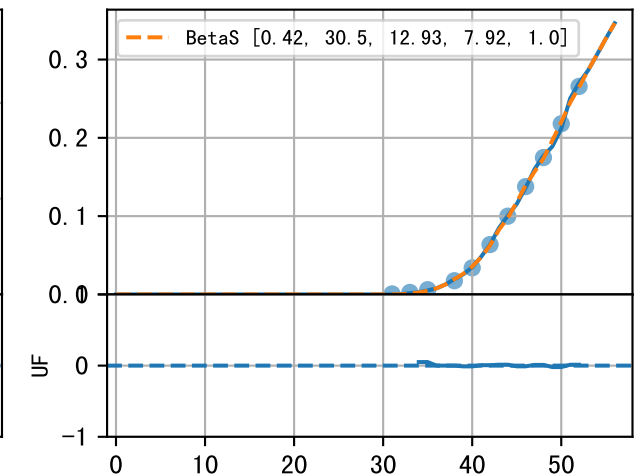
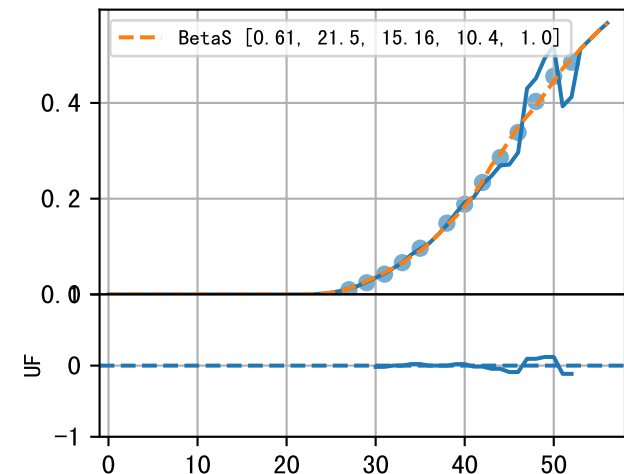
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P9AE-089-25T1Fr1

P9AE-089-25T1Fr5

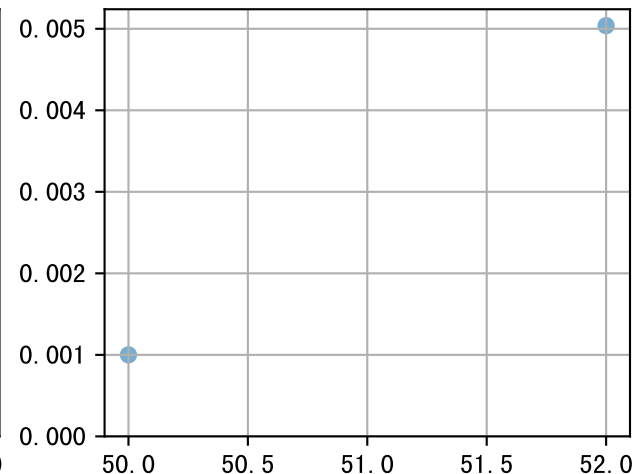
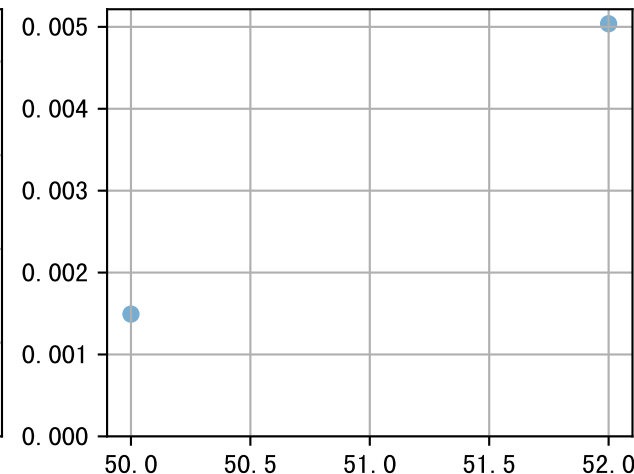
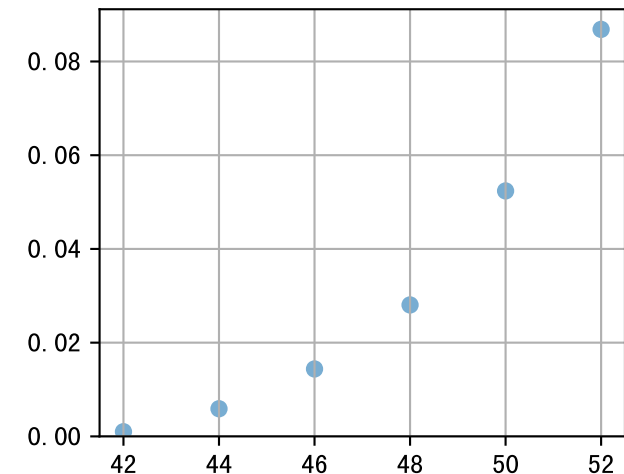
P9AE-089-25T2Fr1 (fit failed)



P9AE-089-25T2Fr5 (fit failed)

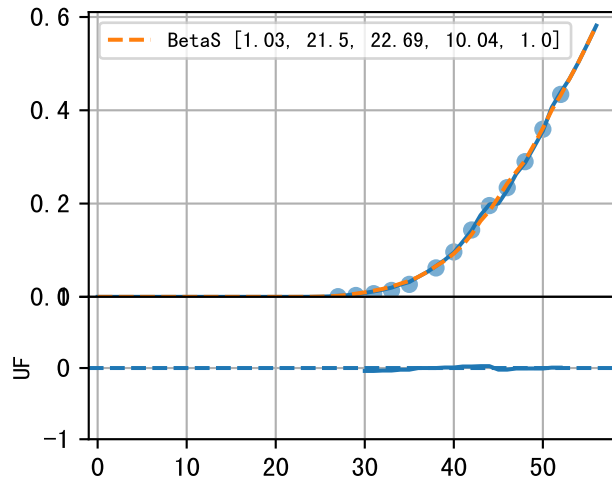
P9AE-089-25T3Fr1 (fit failed)

P9AE-089-25T3Fr5 (fit failed)

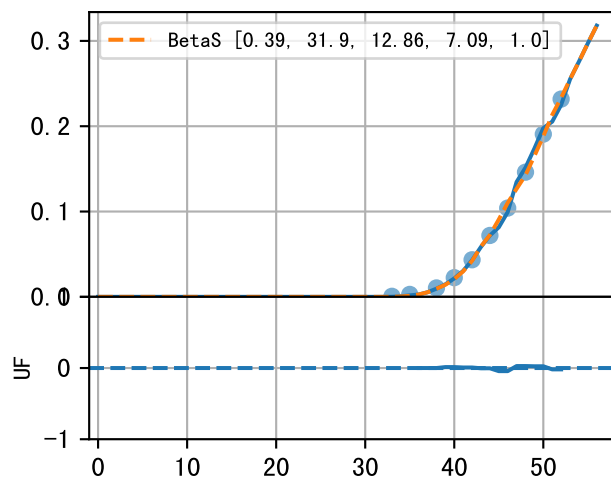


FrV

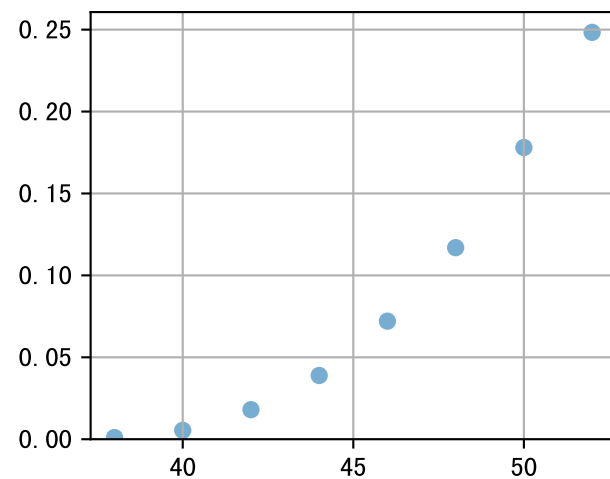
P9AE-100-19T1Fr1



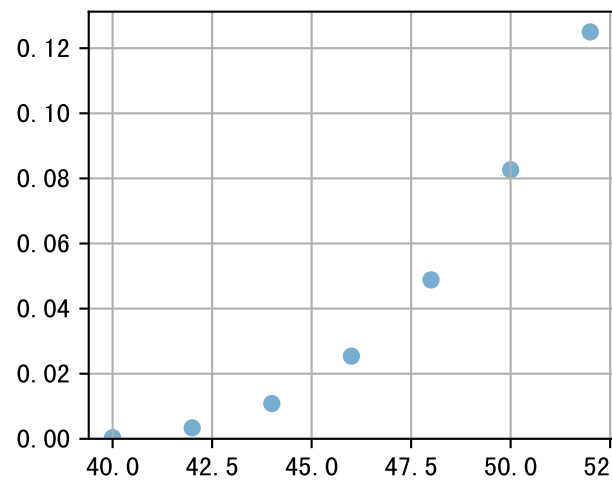
P9AE-100-19T1Fr5



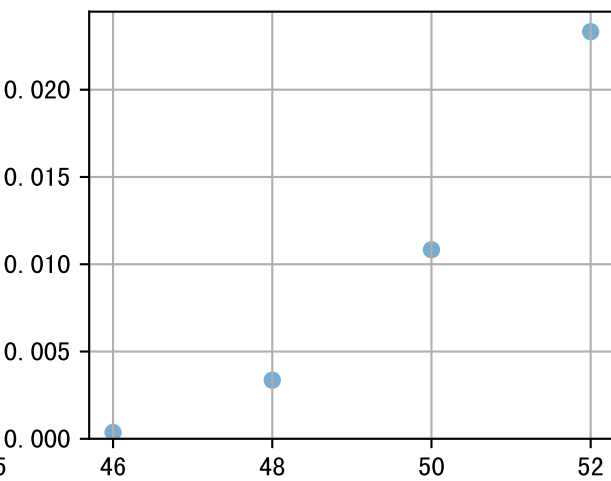
P9AE-100-19T2Fr1 (fit failed)



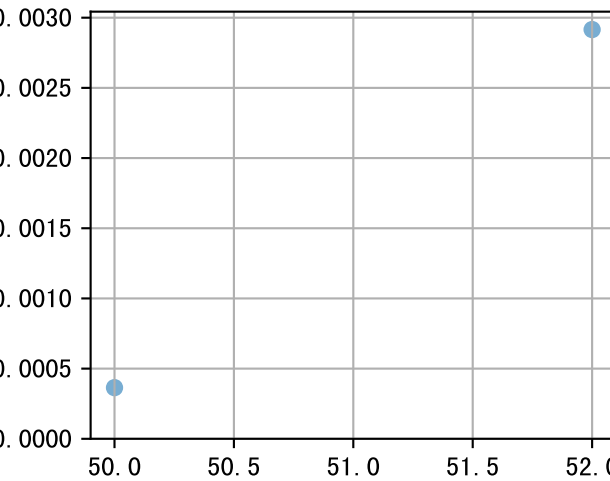
P9AE-100-19T2Fr5 (fit failed)



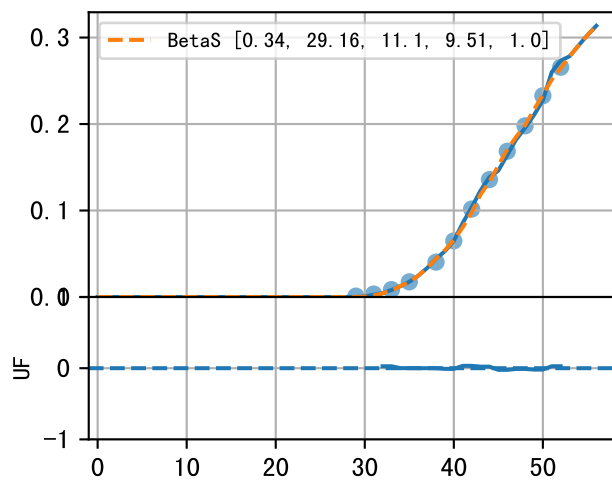
P9AE-100-19T3Fr1 (fit failed)



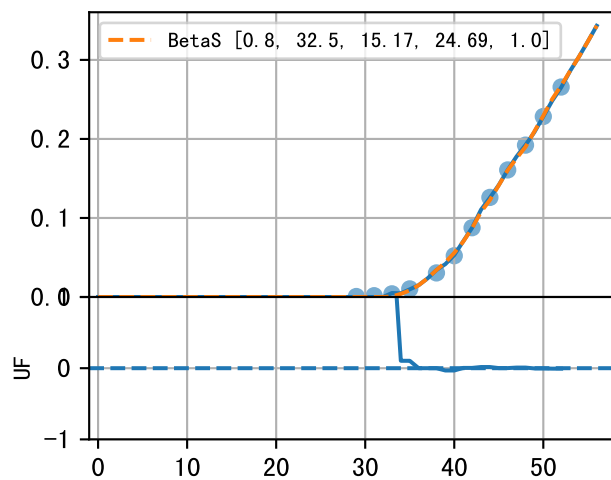
P9AE-100-19T3Fr5 (fit failed)



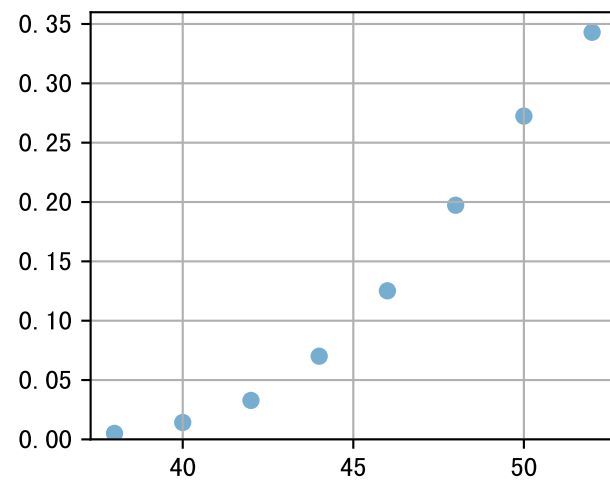
P9AE-111-7T1Fr1



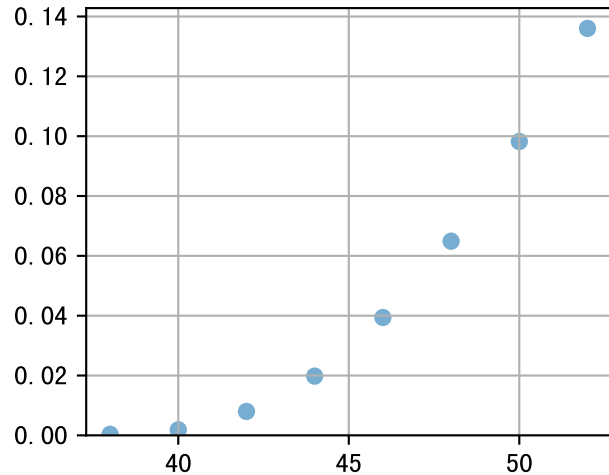
P9AE-111-7T1Fr5 (fit failed)



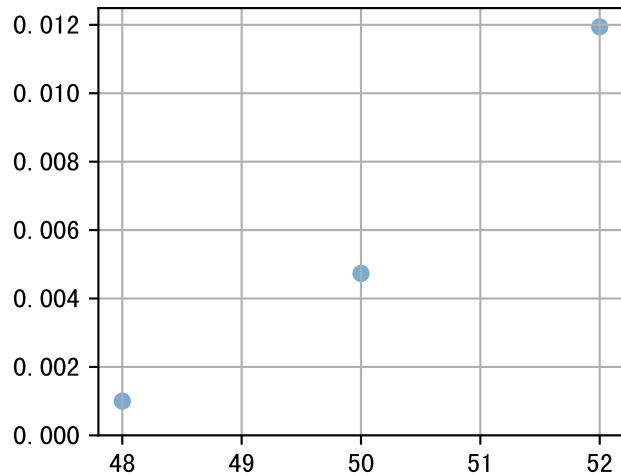
P9AE-111-7T2Fr1 (fit failed)



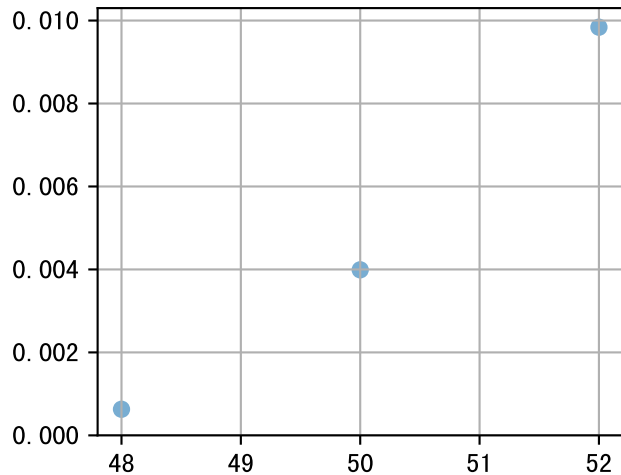
P9AE-111-7T2Fr5 (fit failed)

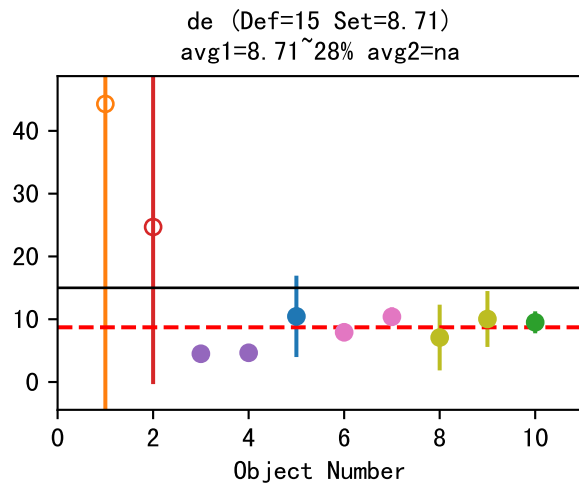
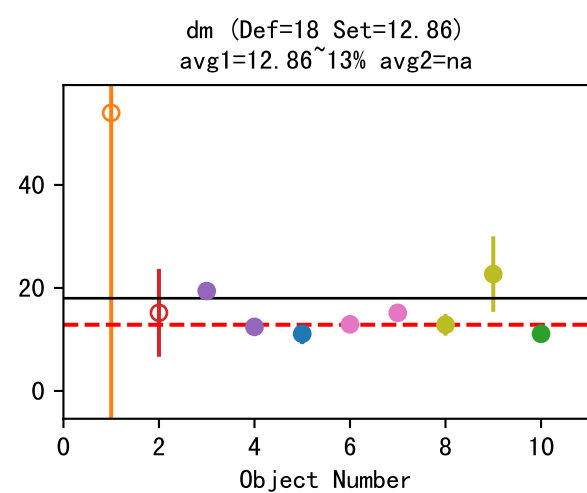
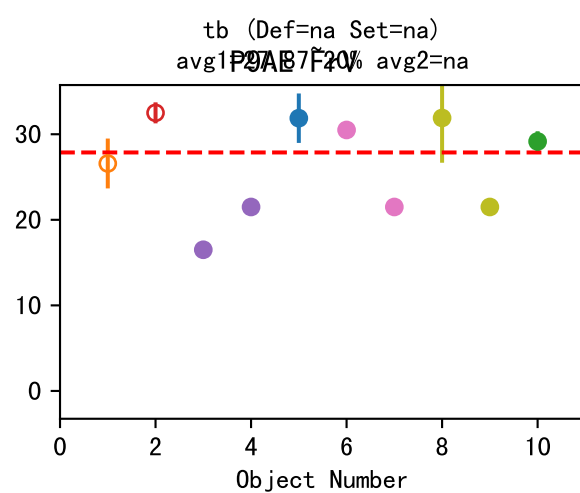
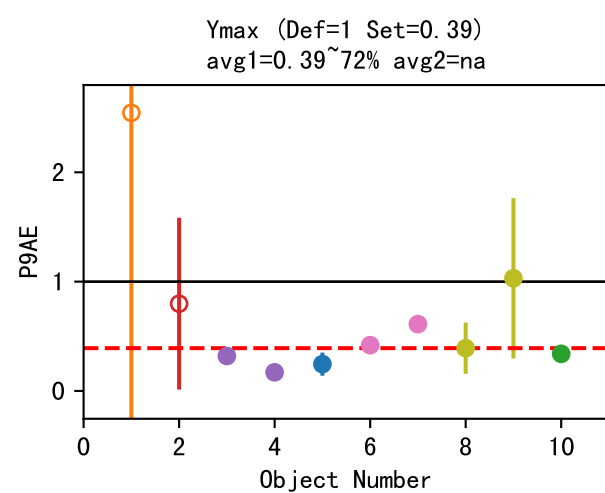


P9AE-111-7T3Fr1 (fit failed)



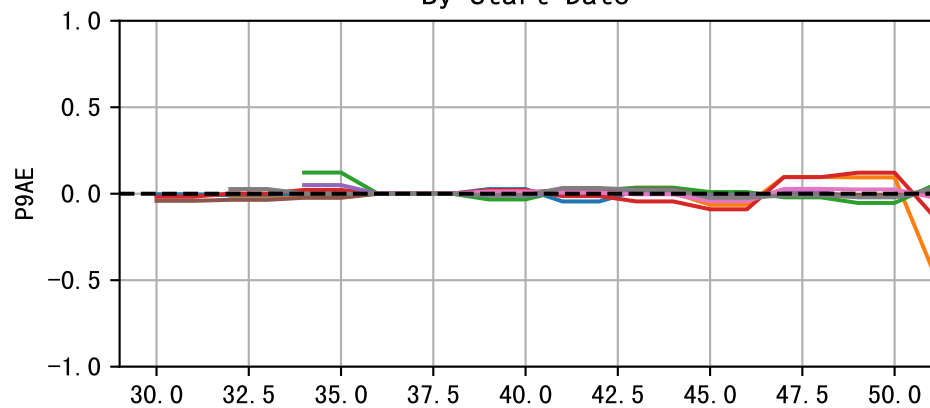
P9AE-111-7T3Fr5 (fit failed)



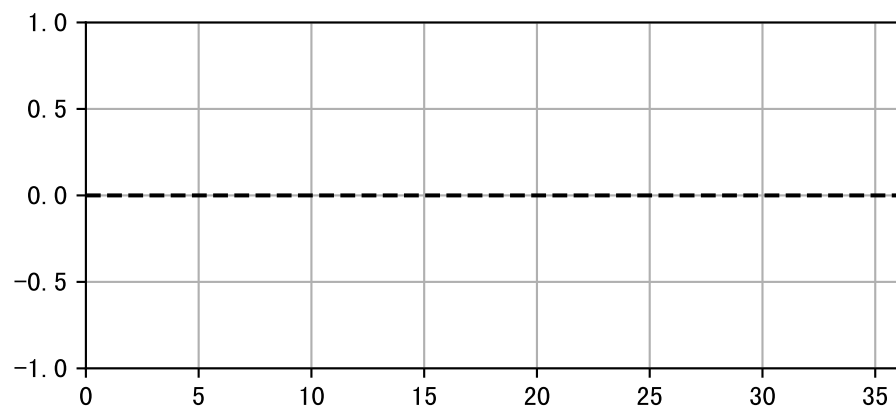
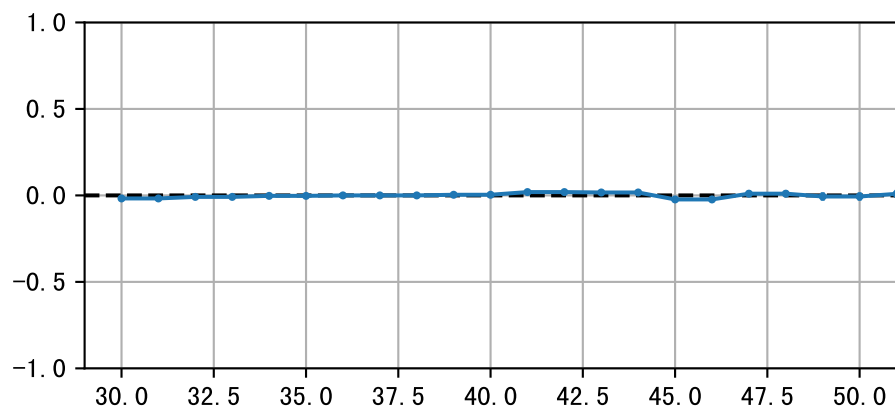
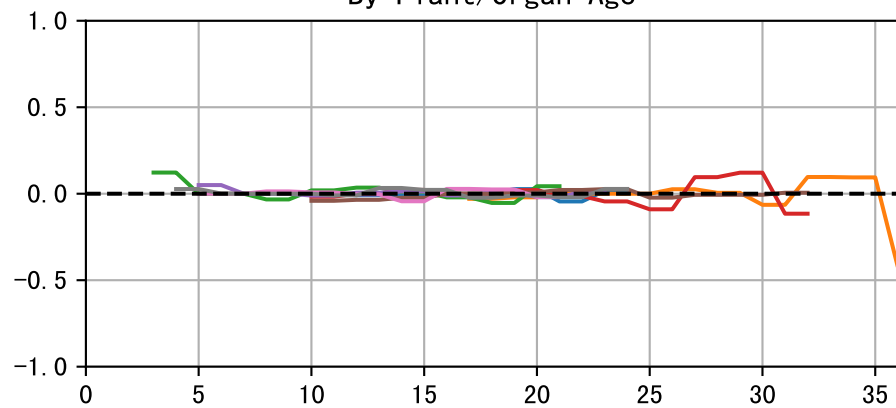


FrV

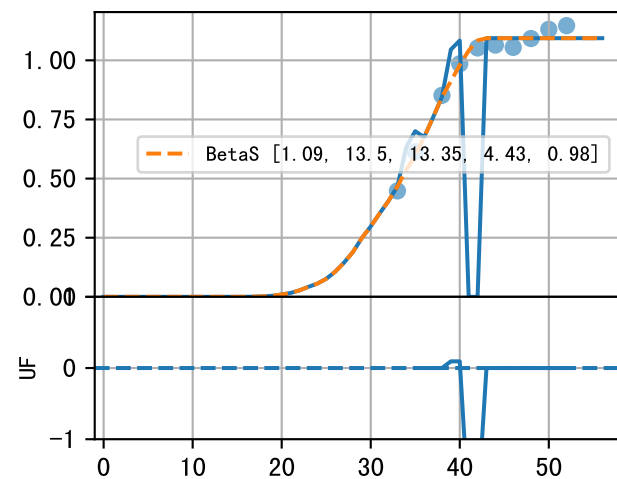
By Start Date



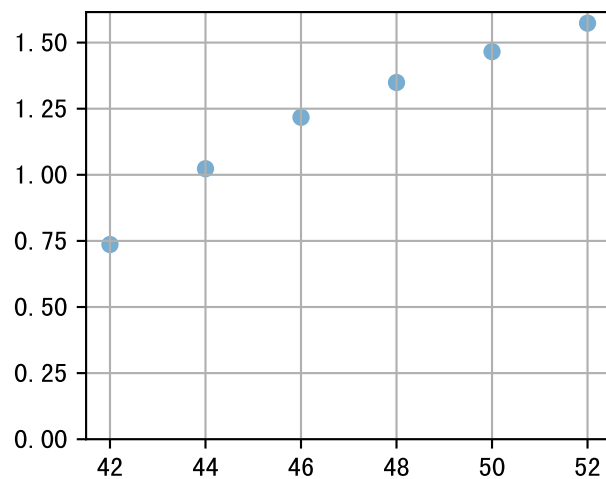
By Plant/Organ Age



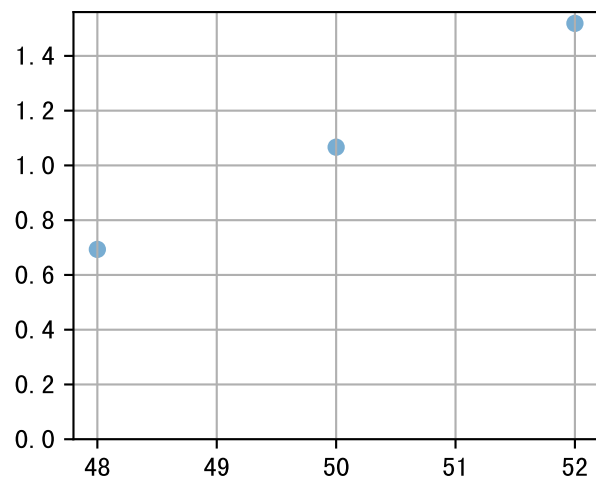
P9AE-065-3L10



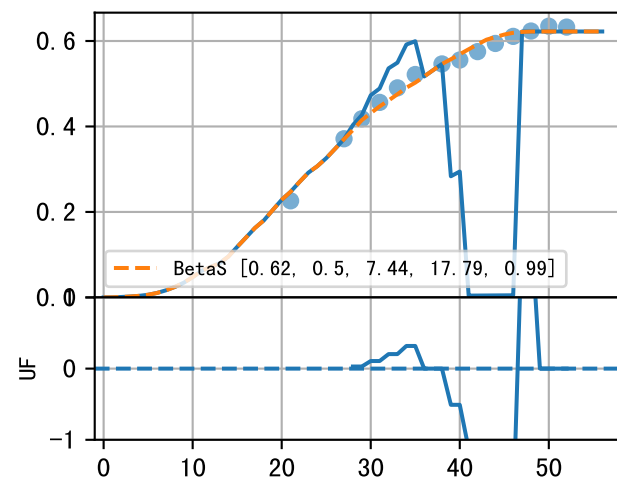
P9AE-065-3L14 (fit failed)



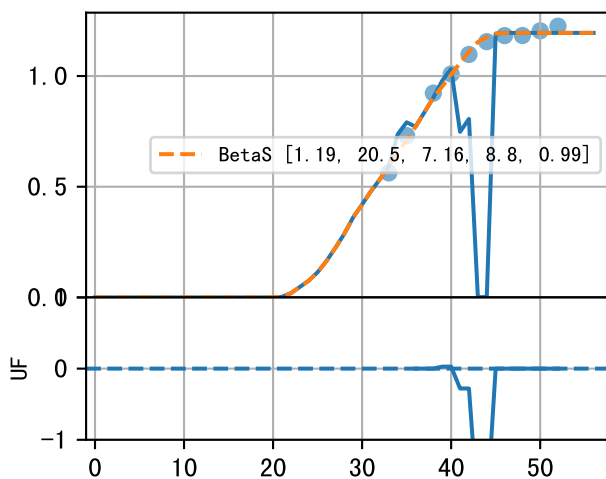
P9AE-065-3L17 (fit failed)



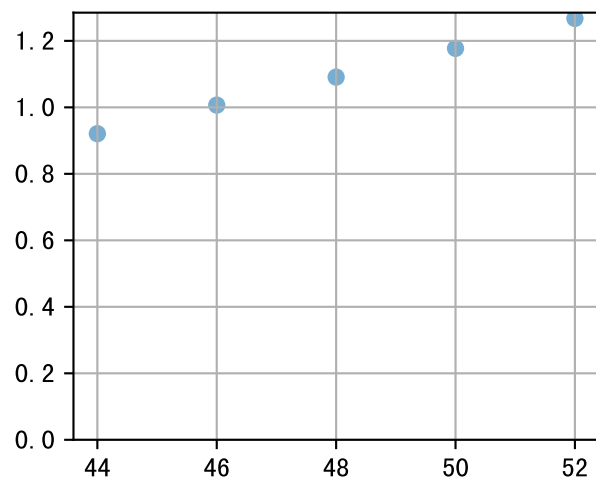
P9AE-065-3L7 (fit failed)



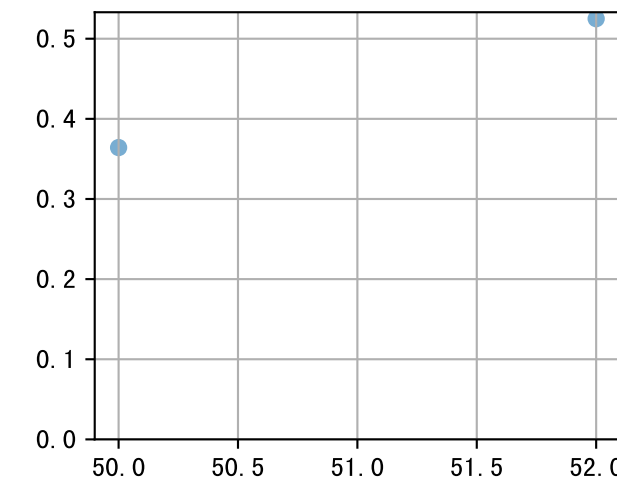
P9AE-077-32L10



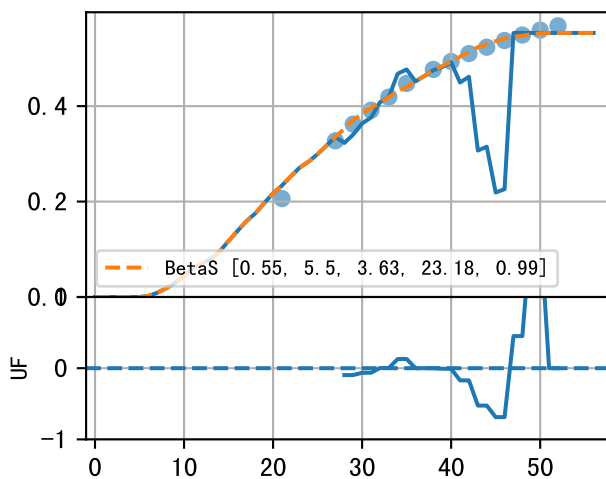
P9AE-077-32L13 (fit failed)



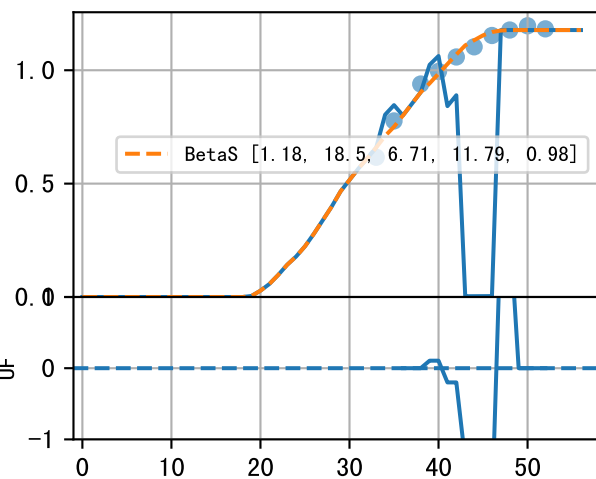
P9AE-077-32L16 (fit failed)



P9AE-077-32L7 (fit failed)



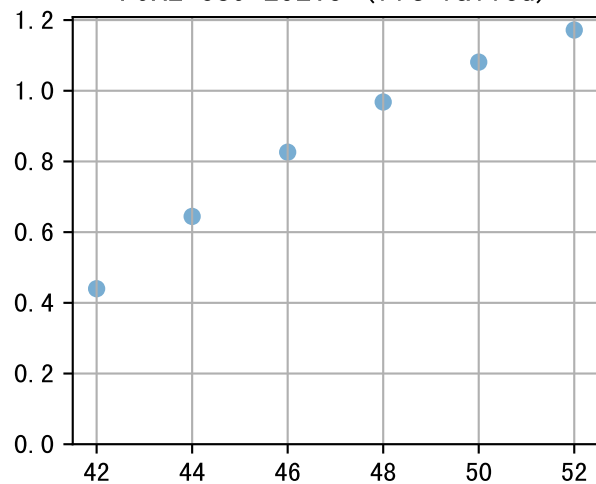
P9AE-089-25L10



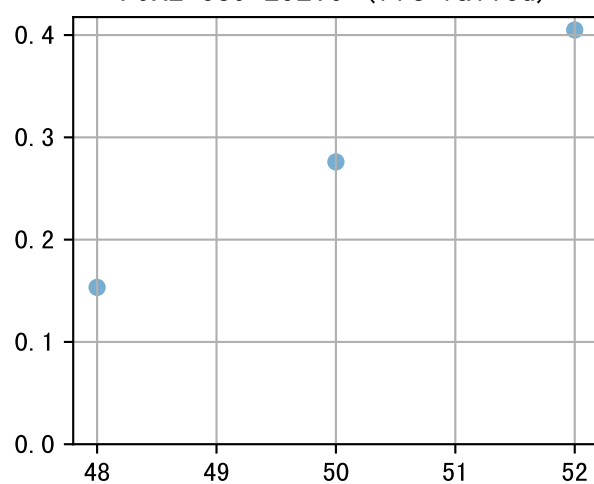


1-fA

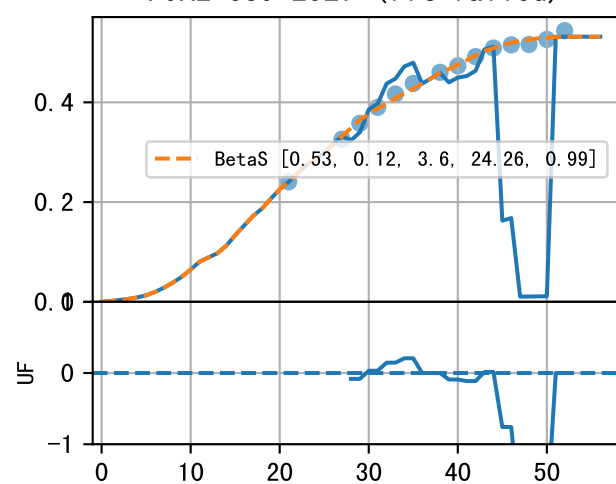
P9AE-089-25L13 (fit failed)



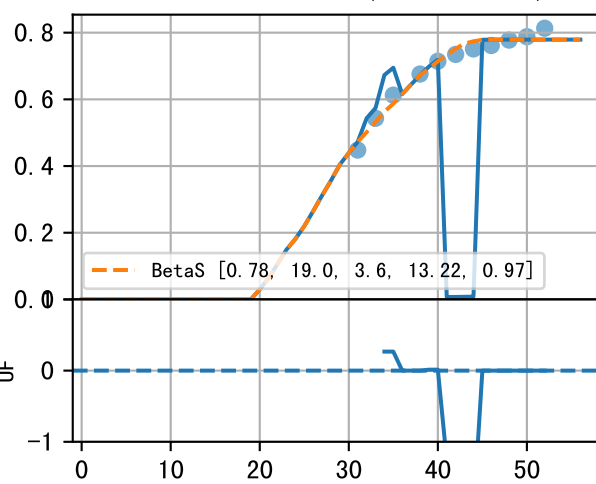
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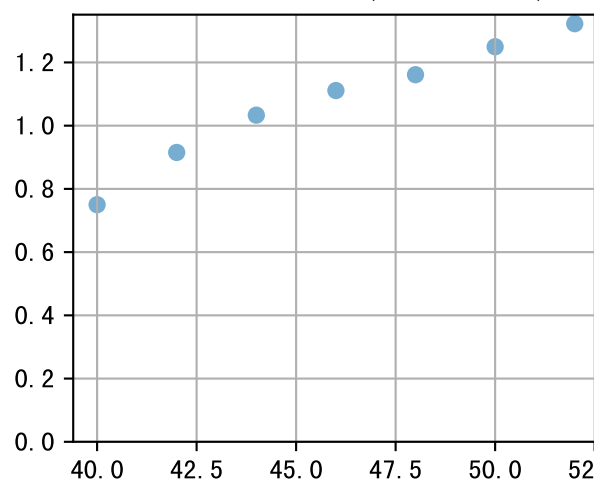
P9AE-089-25L7 (fit failed)



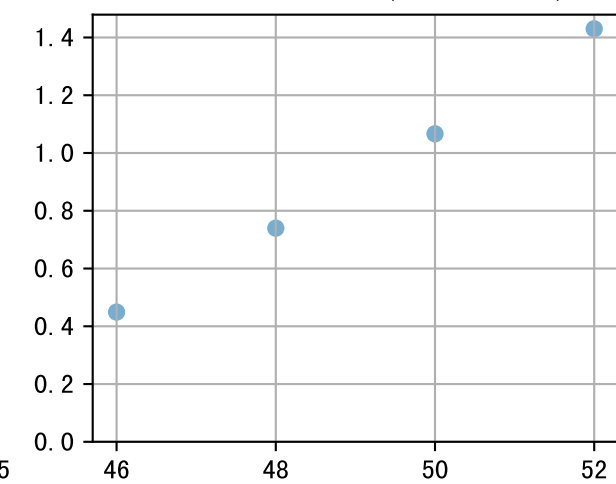
P9AE-100-19L10 (fit failed)



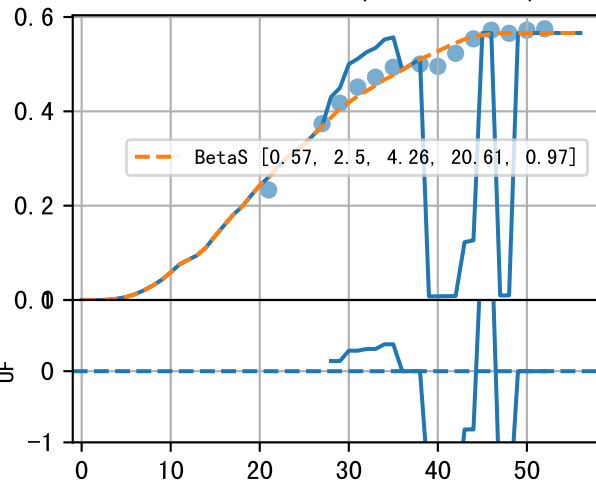
P9AE-100-19L13 (fit failed)



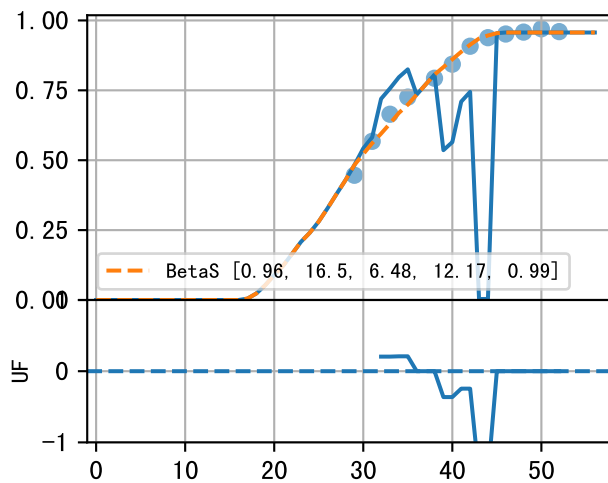
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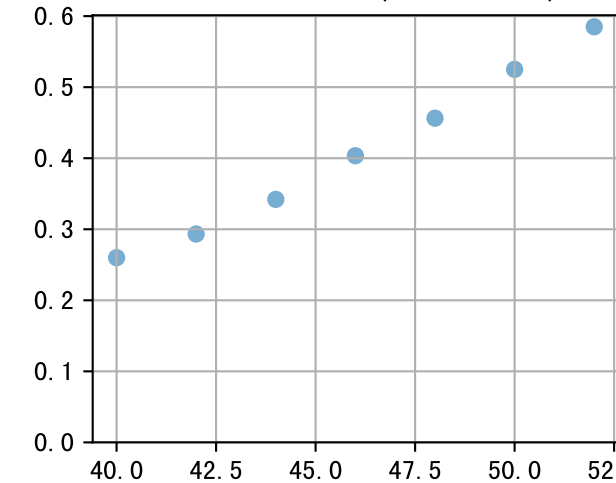
P9AE-100-19L7 (fit failed)



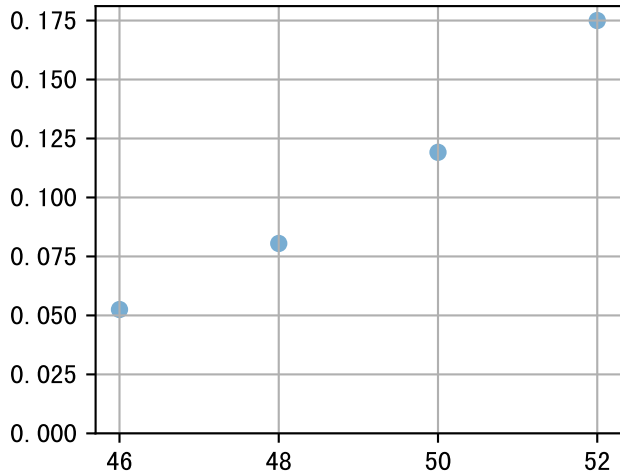
P9AE-111-7L10



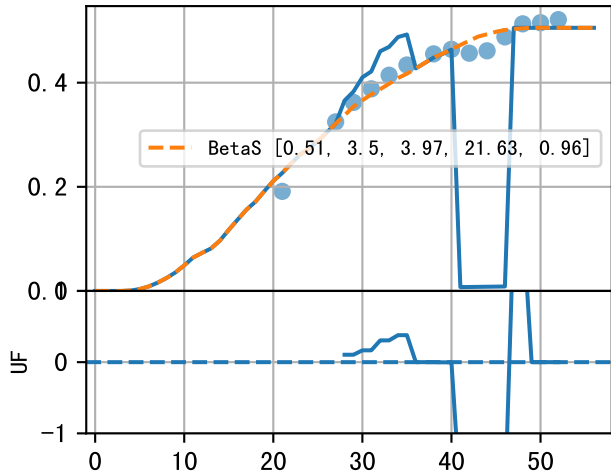
P9AE-111-7L14 (fit failed)

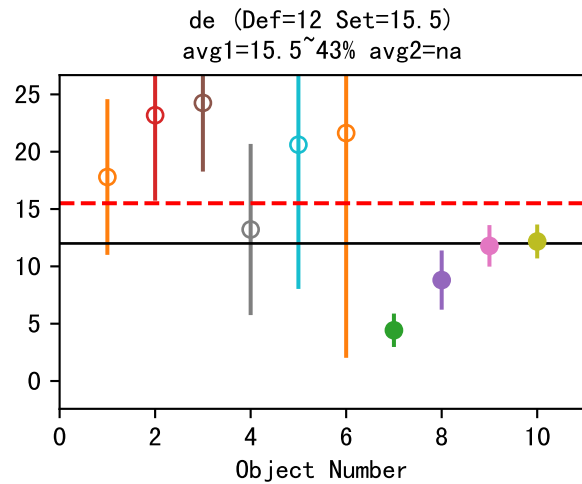
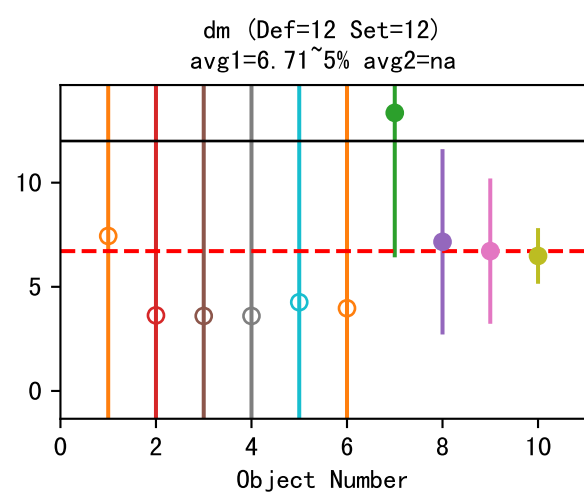
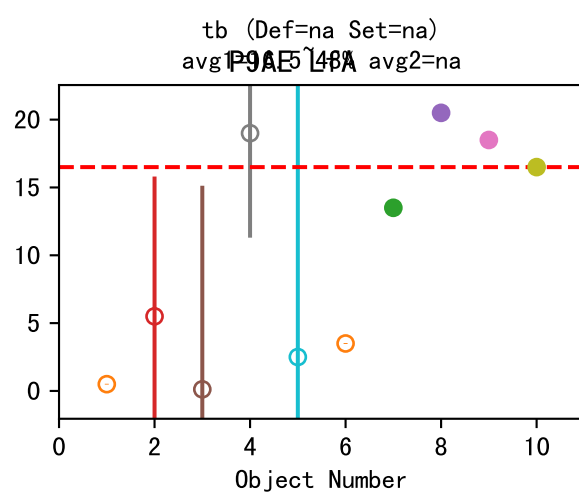
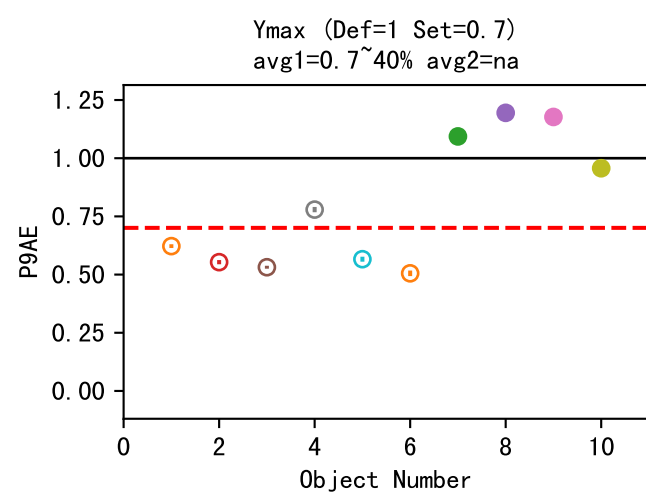


P9AE-111-7L17 (fit failed)

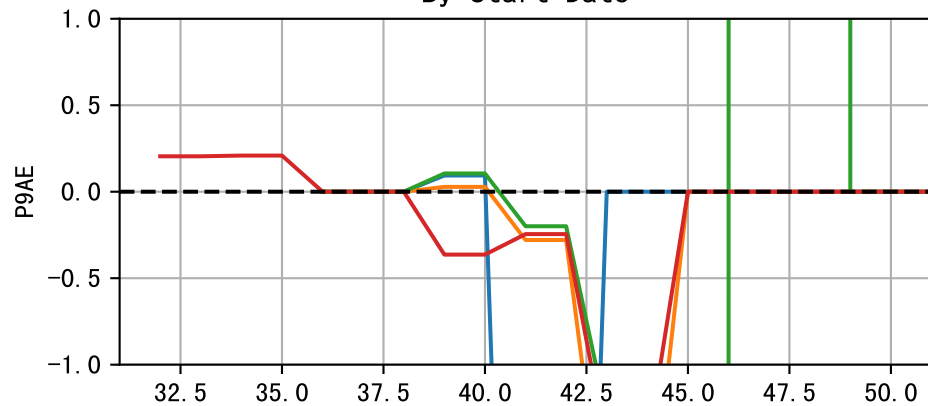


P9AE-111-7L17<sup>lfA</sup> (fit failed)

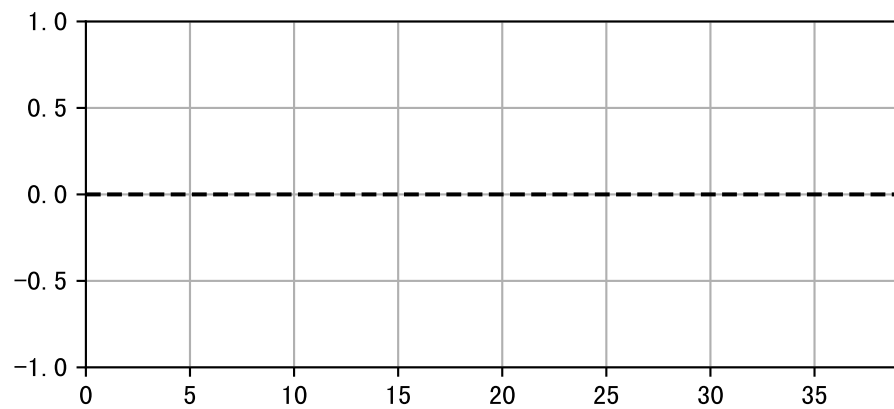
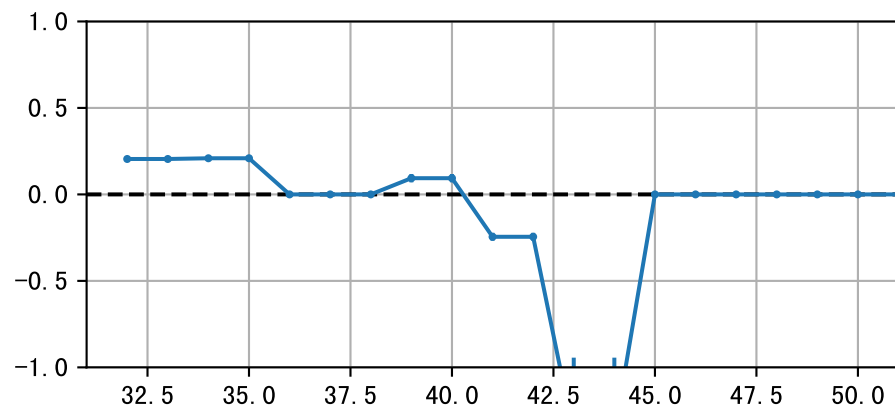
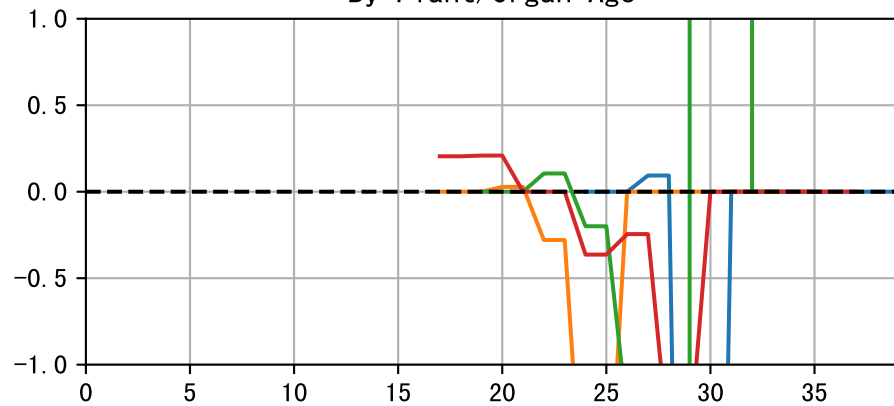


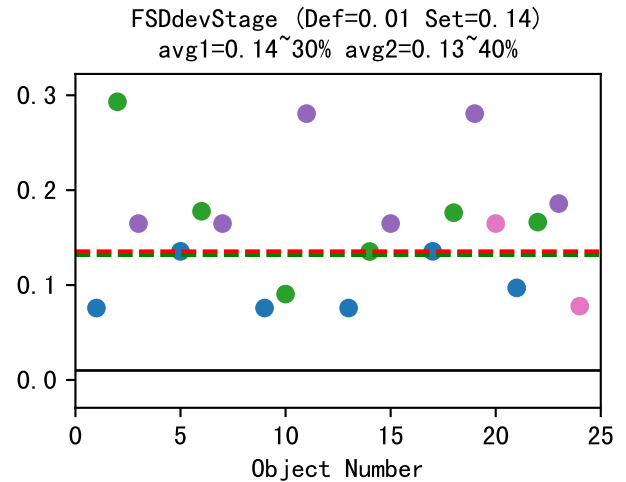
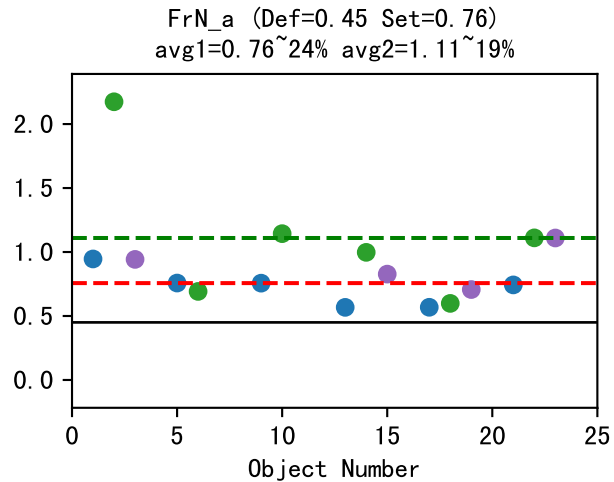
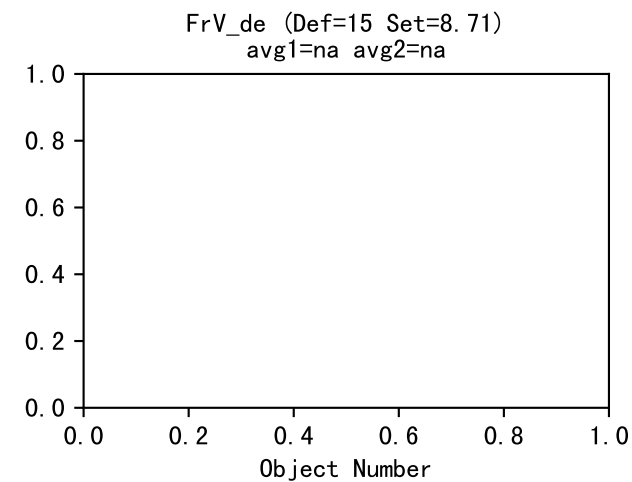
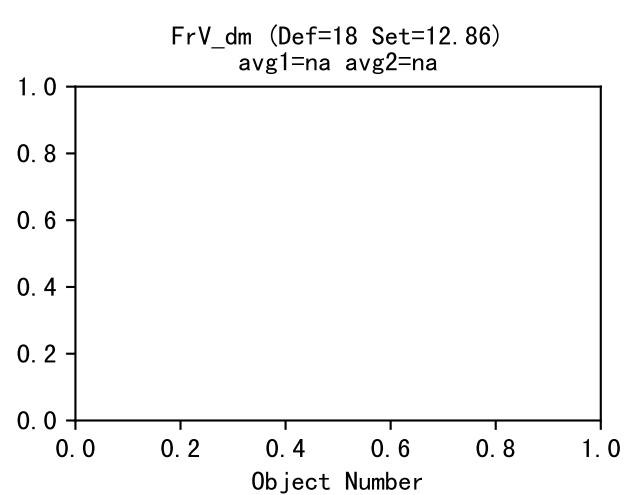
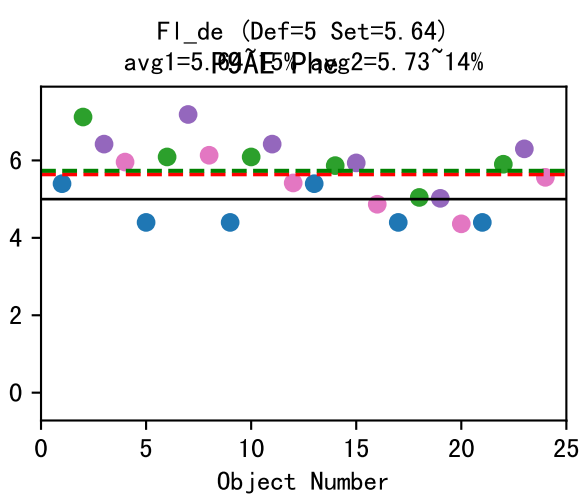
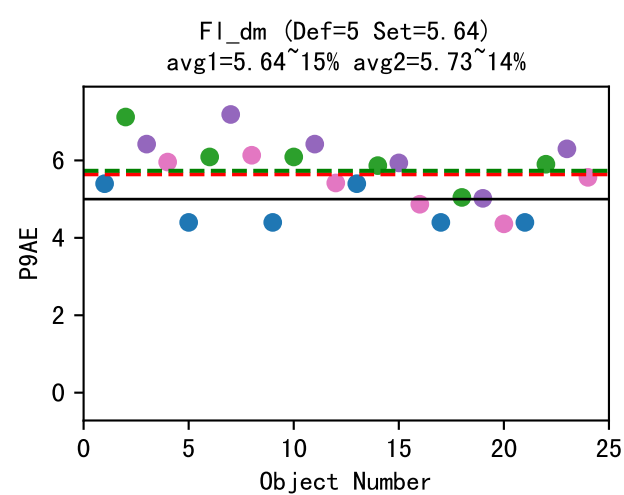


By Start Date

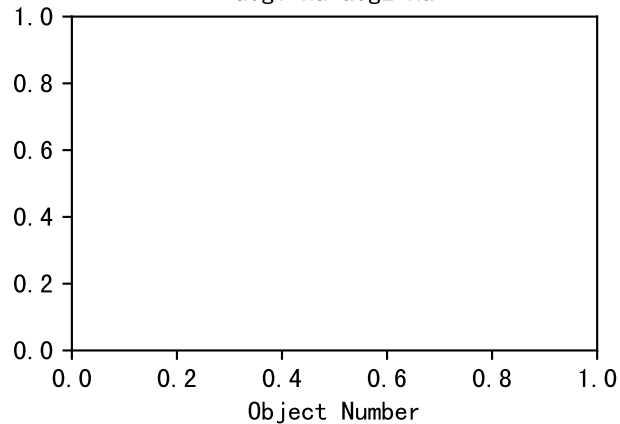


By Plant/Organ Age

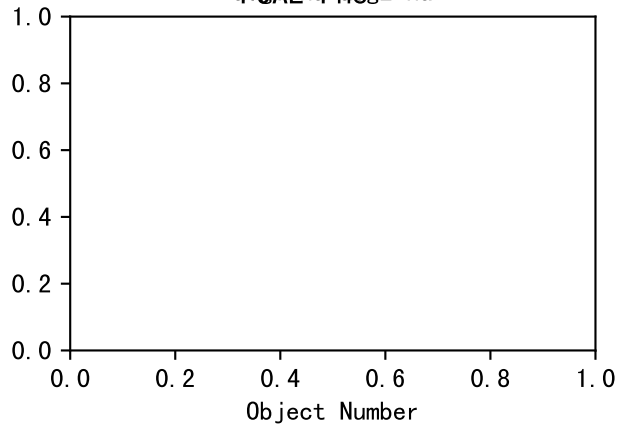




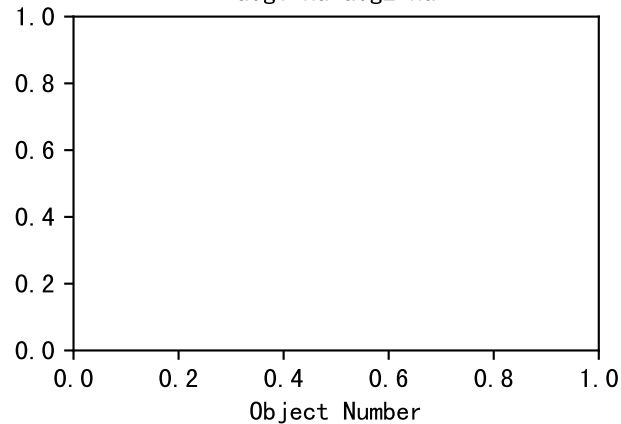
FGDdevStage (Def=0.7 Set=0.7)  
avg1=na avg2=na



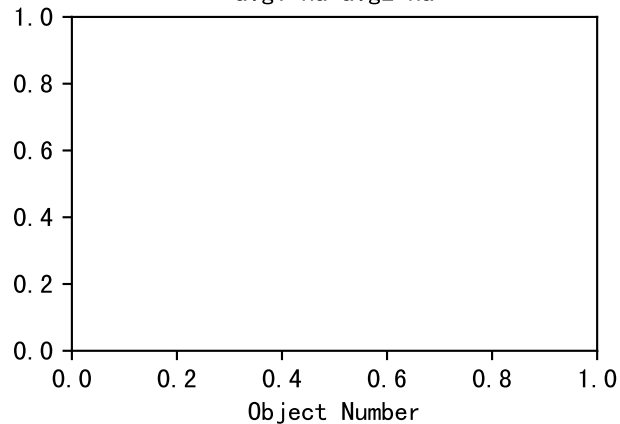
FMBDdevStage (Def=1.3 Set=1.3)  
avg1=na avg2=na



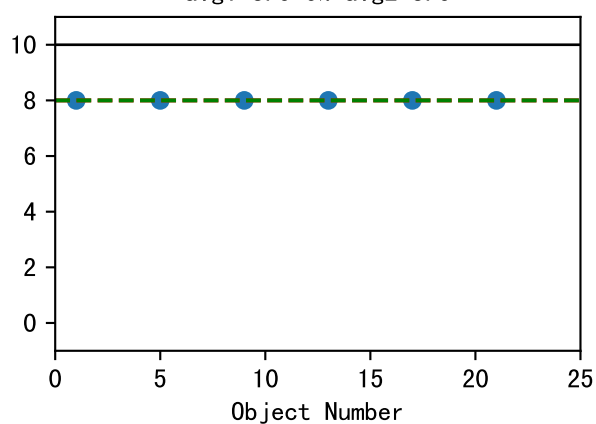
FMEDdevStage (Def=1.8 Set=1.8)  
avg1=na avg2=na



FHDdevStage (Def=1.5 Set=1.5)  
avg1=na avg2=na

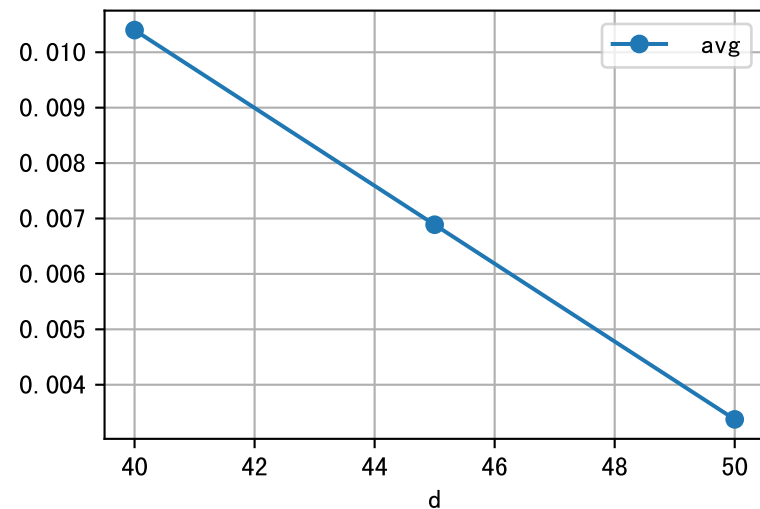


NNgen (Def=10 Set=8)  
avg1=8.0~0% avg2=8.0

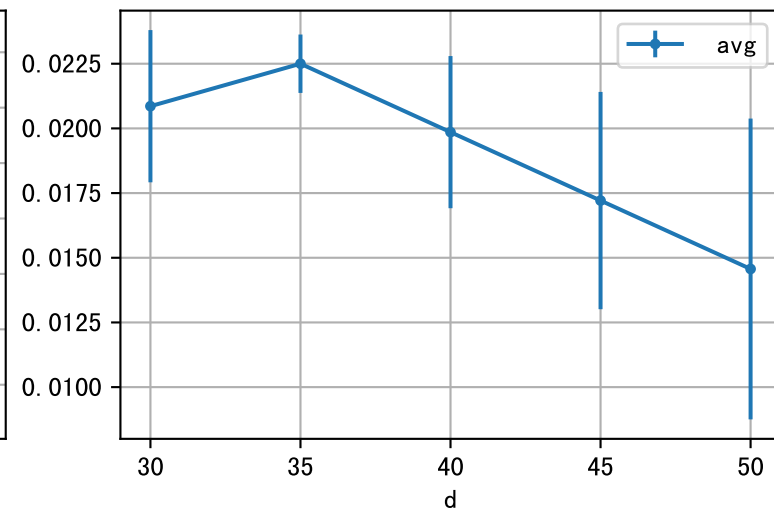


LfA: avg vs. d at each age group

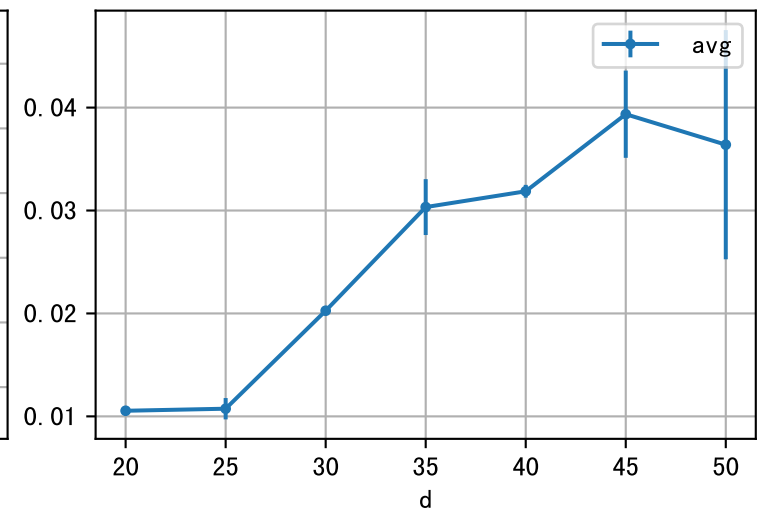
age=15



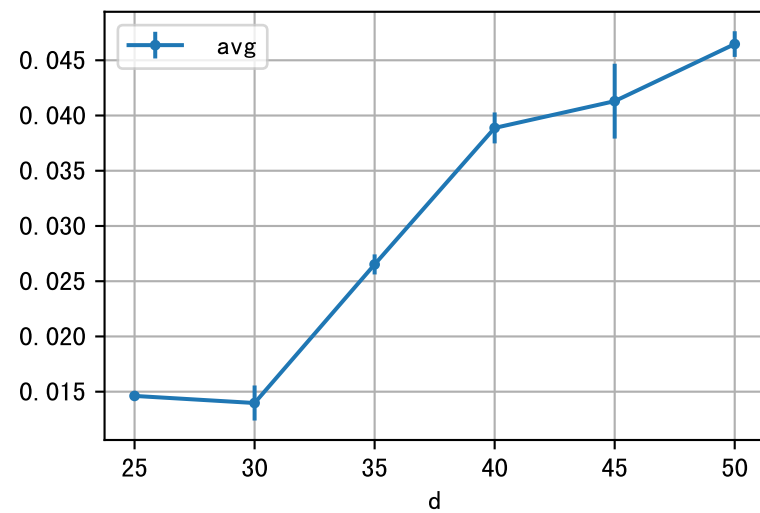
age=20



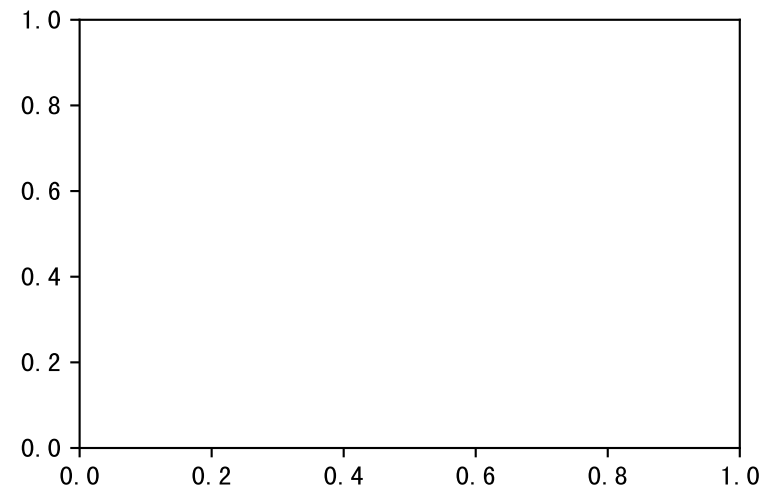
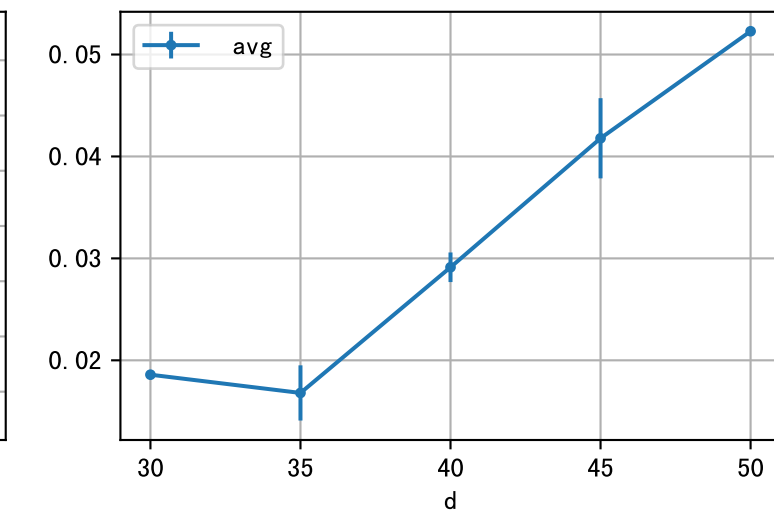
age=25



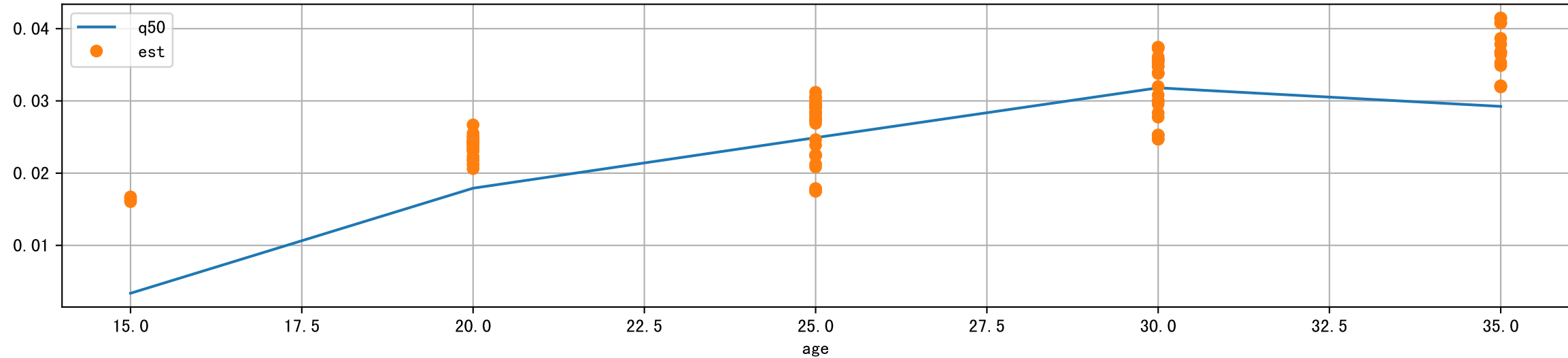
age=30



age=35

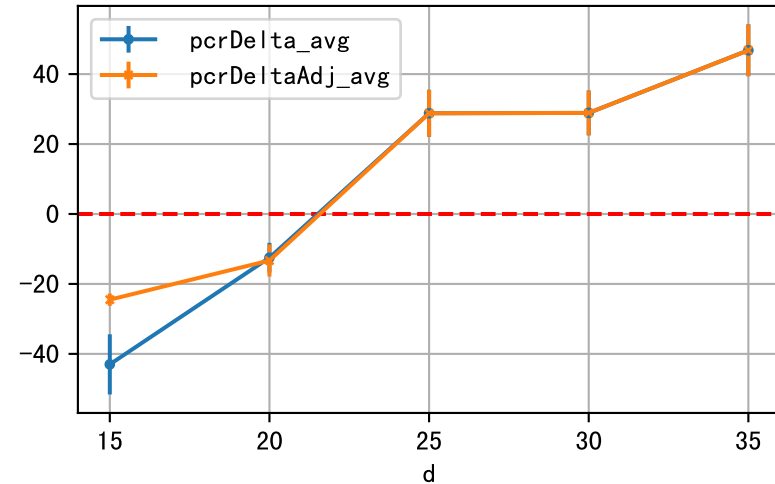


LfA: model est vs obs0v@Q50



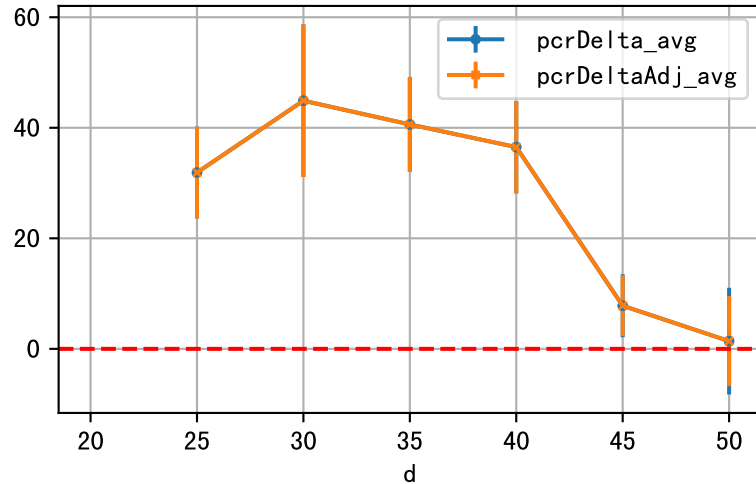


DeltaTypeAbbr=GrpByAge

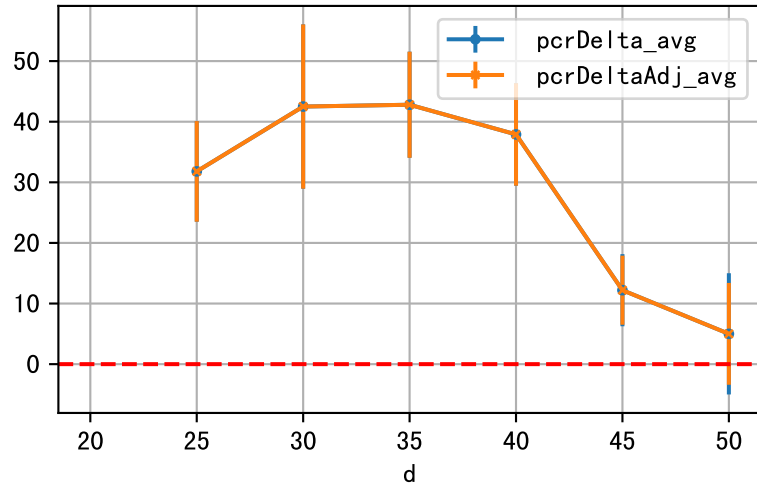


P9AE LfA: D\_5d\_LfA

DeltaTypeAbbr=GrpByDay

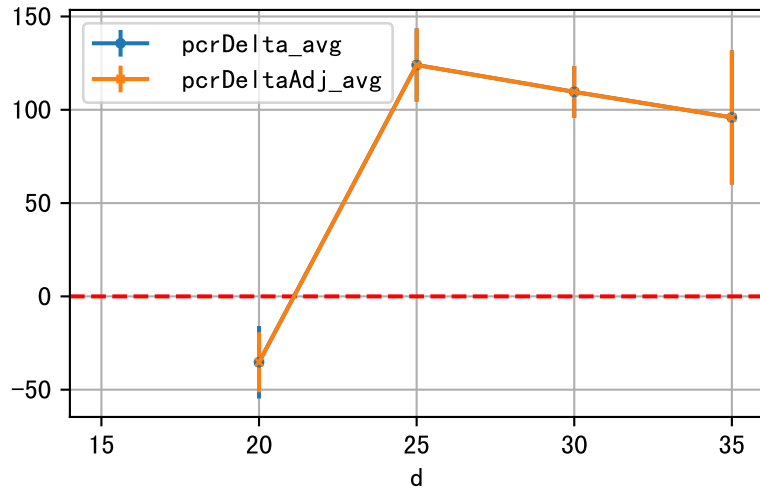


DeltaTypeAbbr=Wei AvgByD

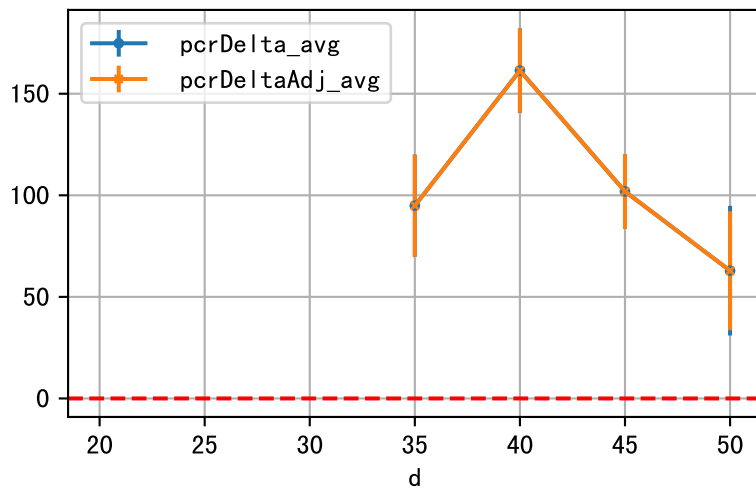


# P9AE LfA: D\_15d\_LfA

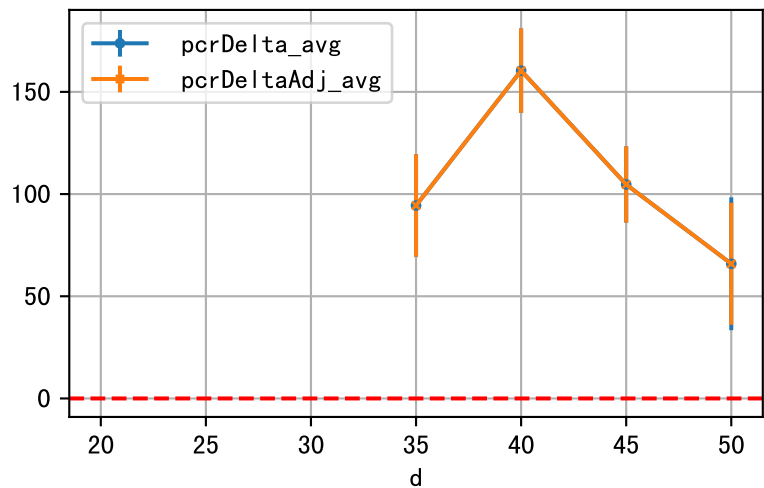
## DeltaTypeAbbr=GrpByAge



## DeltaTypeAbbr=GrpByDay

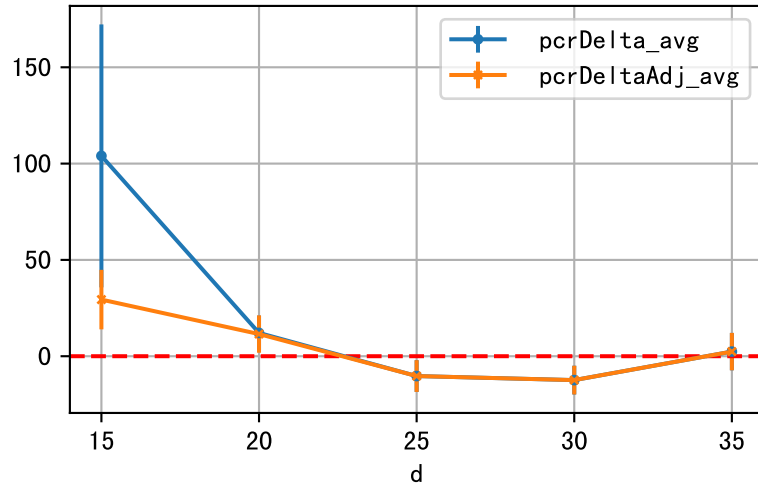


## DeltaTypeAbbr=Wei AvgByD

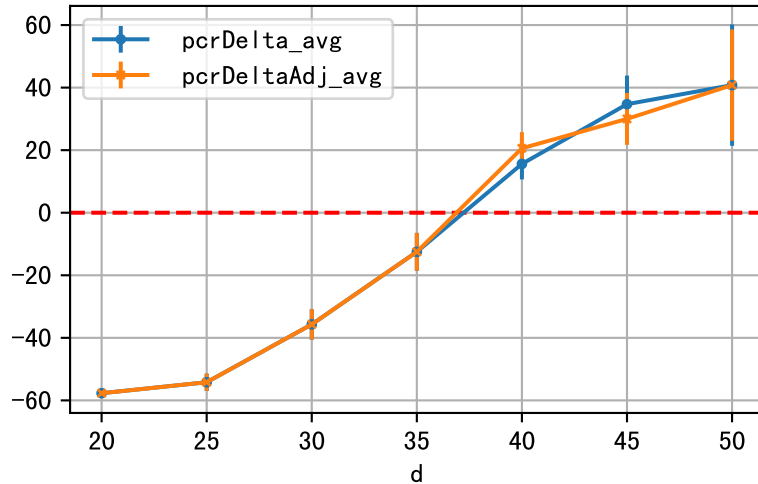


## P9AE LfA: D\_Q50\_LfA

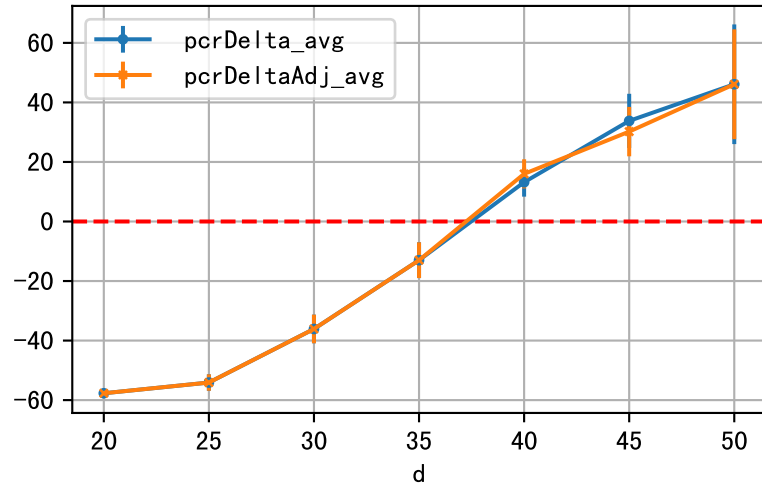
DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=GrpByDay

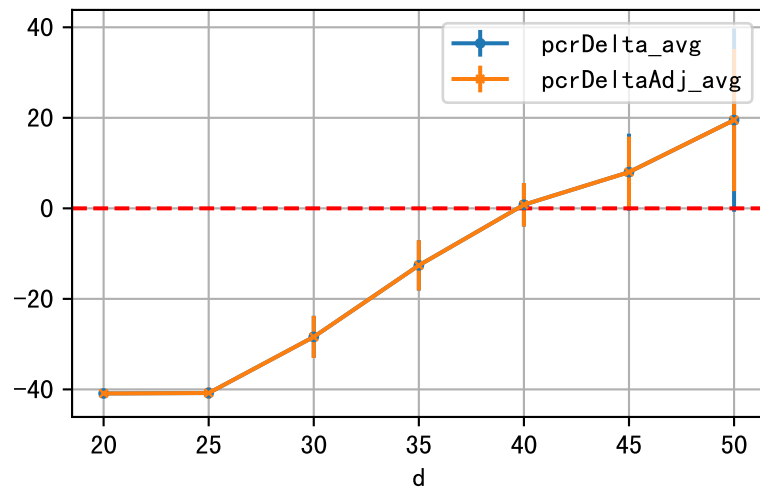
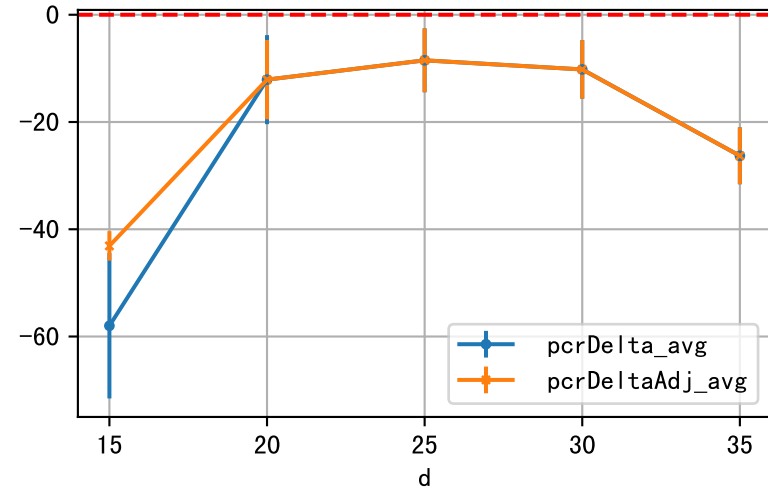


DeltaTypeAbbr=Wei AvgByD

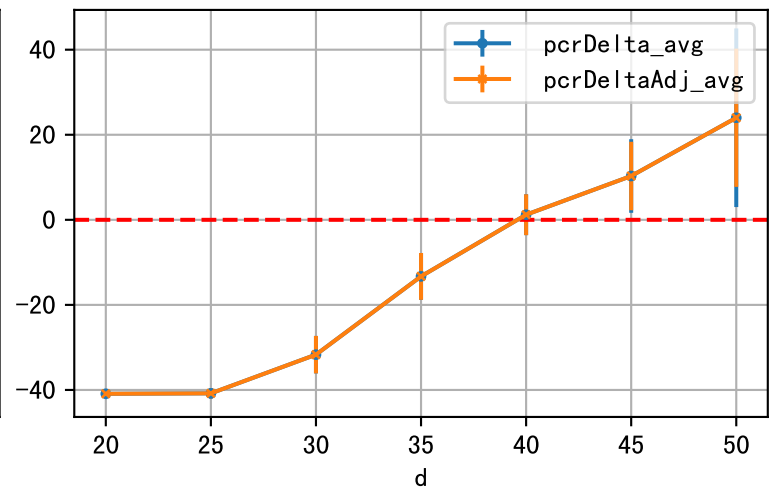


P9AE LfA: D\_Est\_LfA

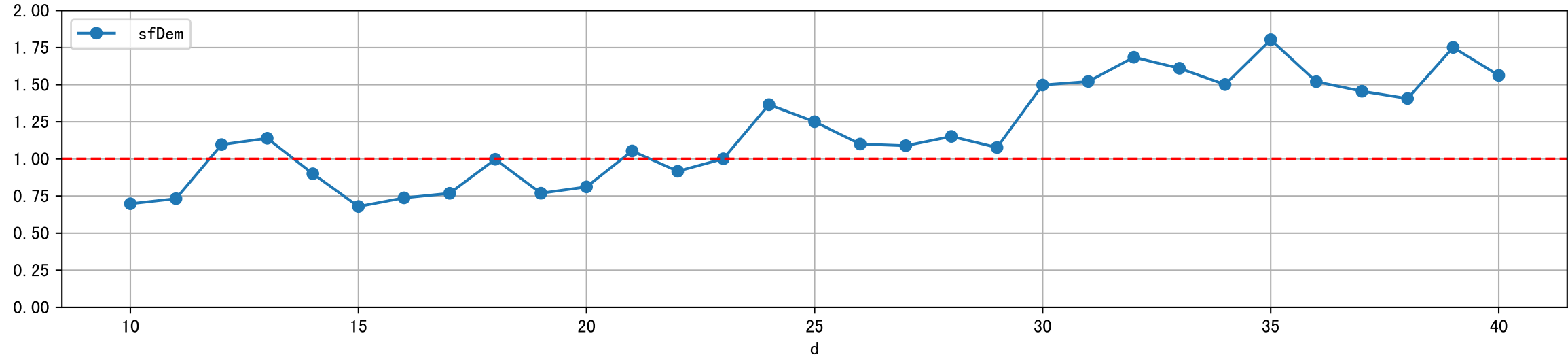
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=Wei AvgByD



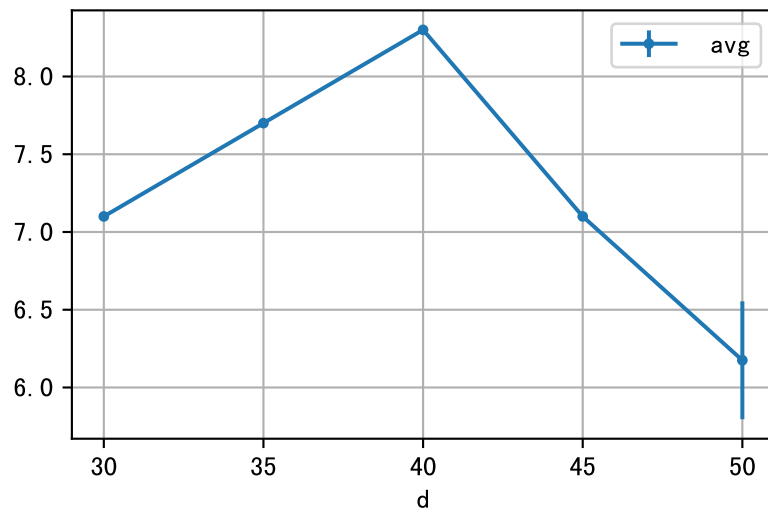
LfA: sfDem



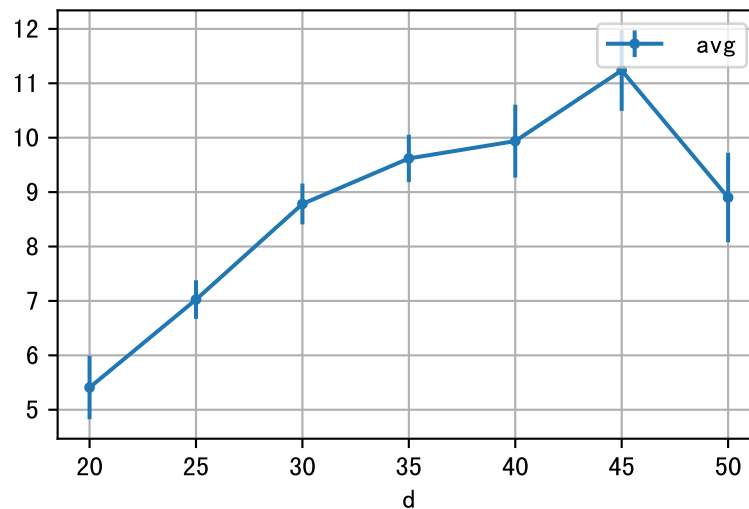


NdD: avg vs. d at each age group

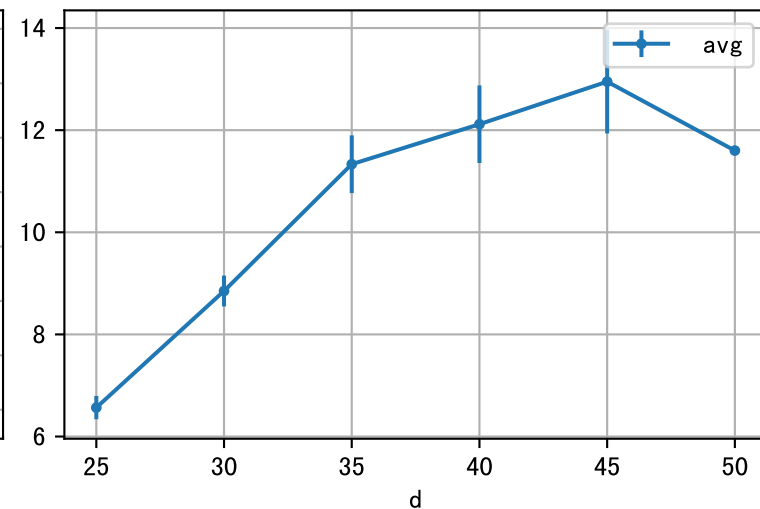
age=15



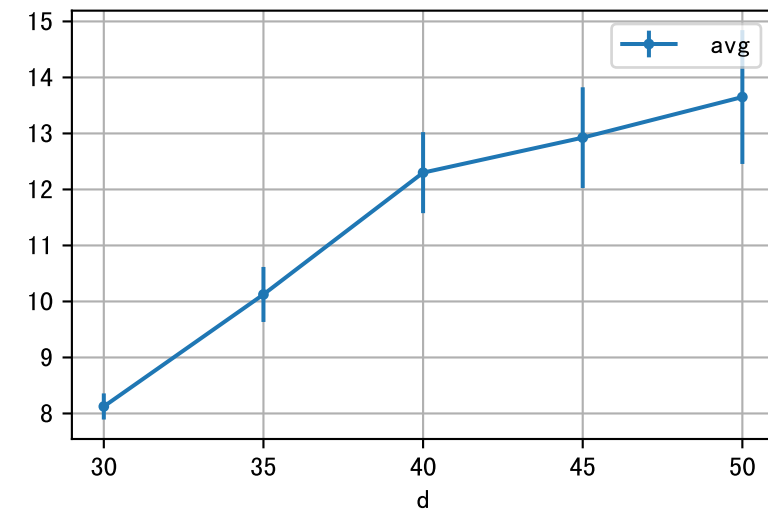
age=20



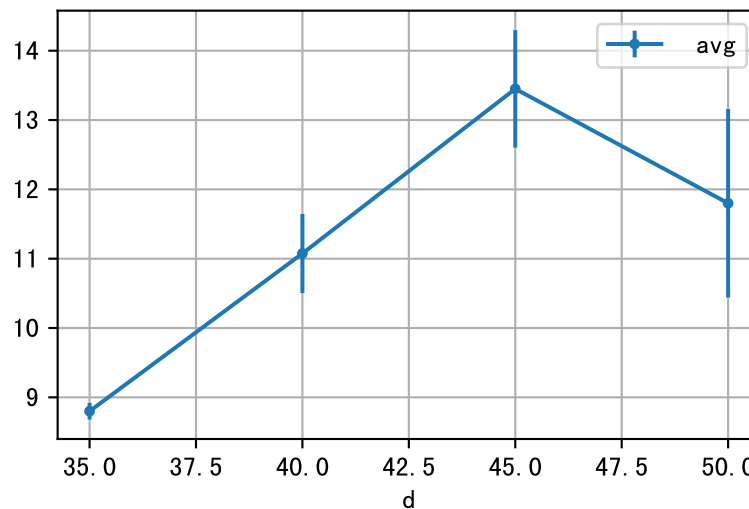
age=25



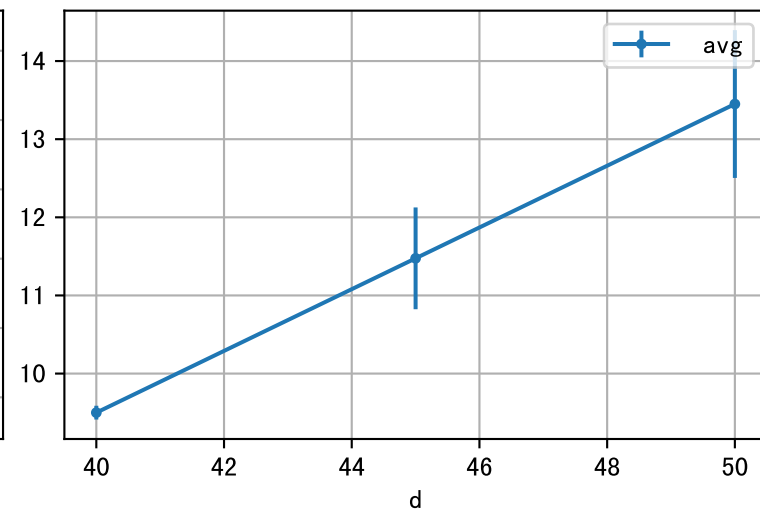
age=30



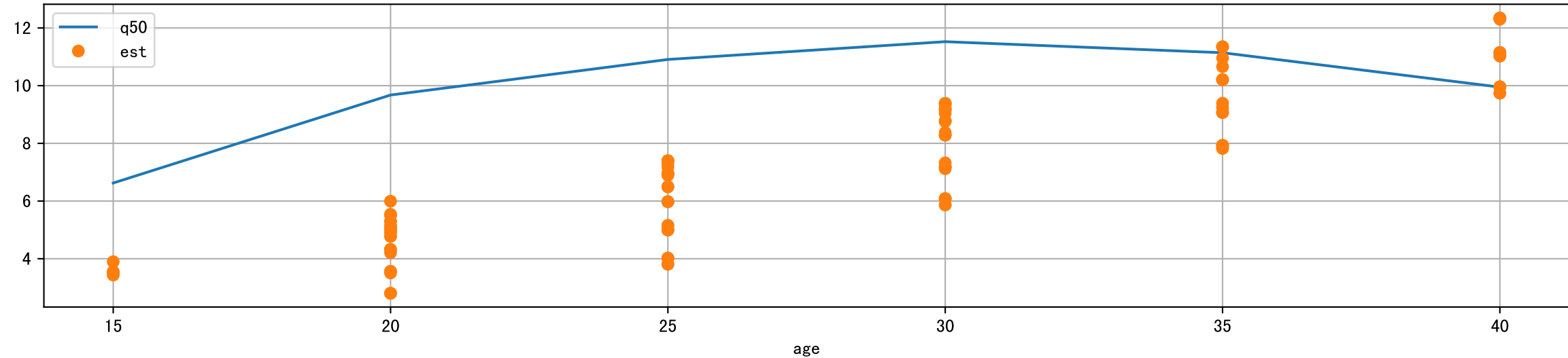
age=35



age=40



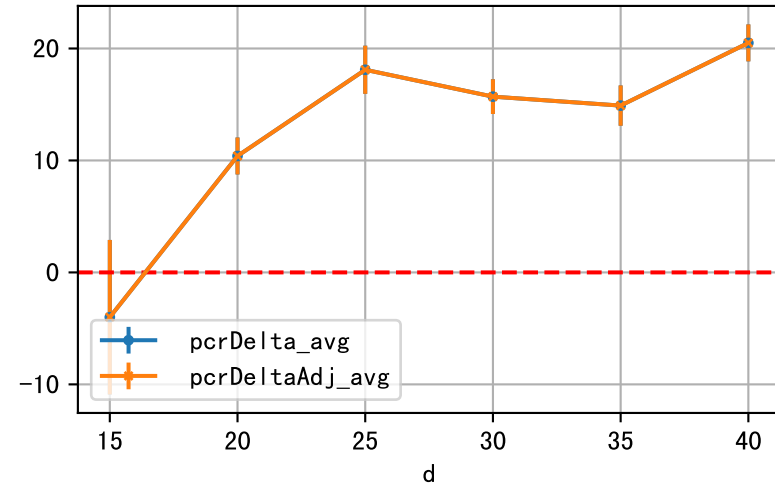
NdD: model est vs obs0v@Q50



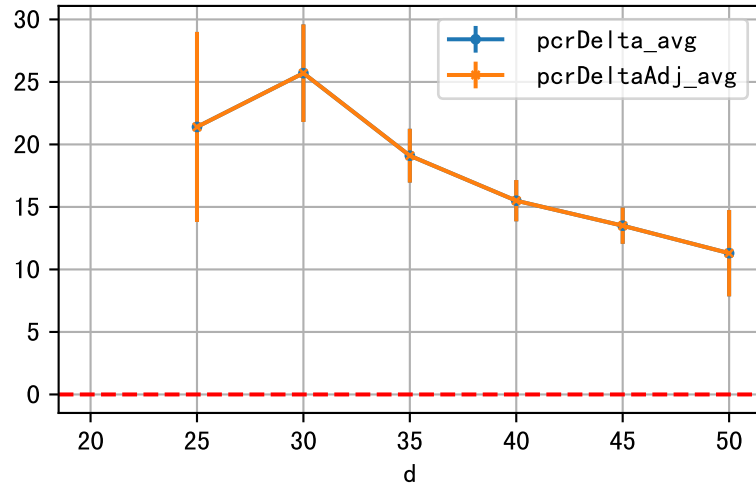


# P9AE NdD: D\_5d\_NdD

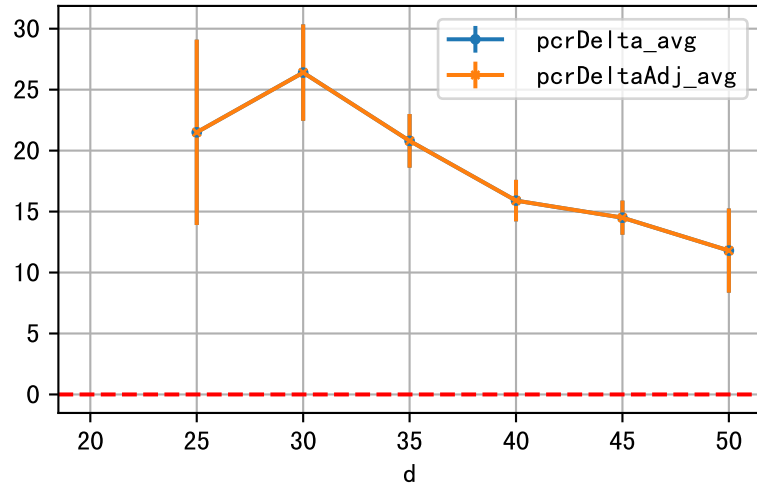
DeltaTypeAbbr=GrpByAge



DeltaTypeAbbr=GrpByDay

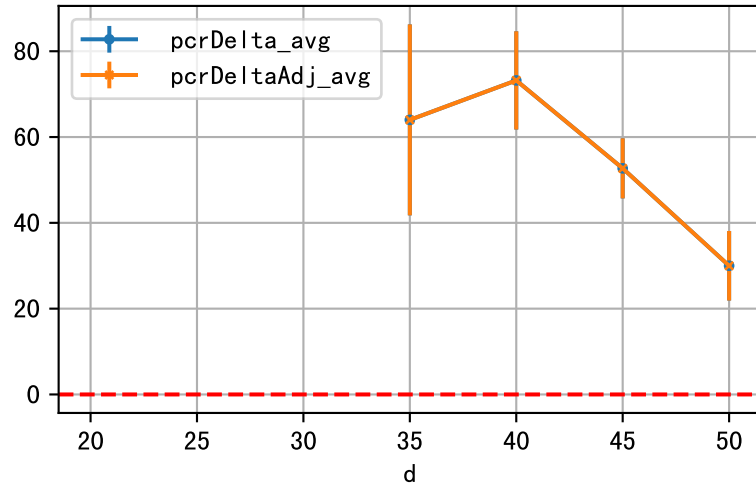


DeltaTypeAbbr=Wei AvgByD

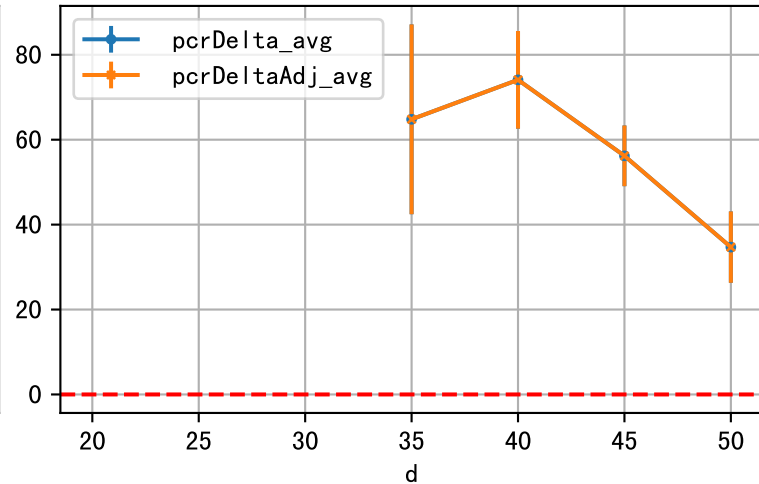


P9AE NdD: D\_15d\_NdD

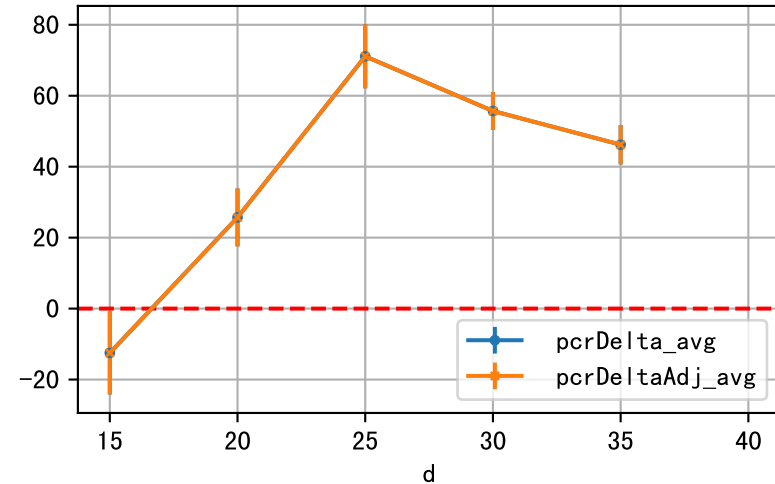
DeltaTypeAbbr=GrpByDay



DeltaTypeAbbr=Wei AvgByD



DeltaTypeAbbr=GrpByAge

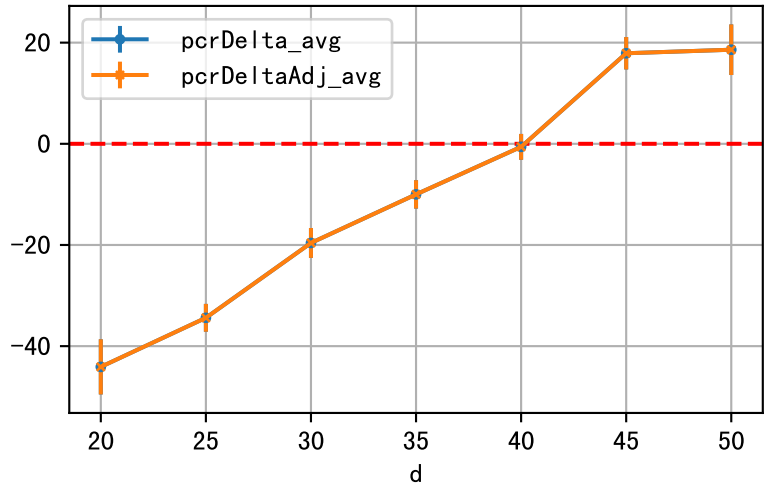
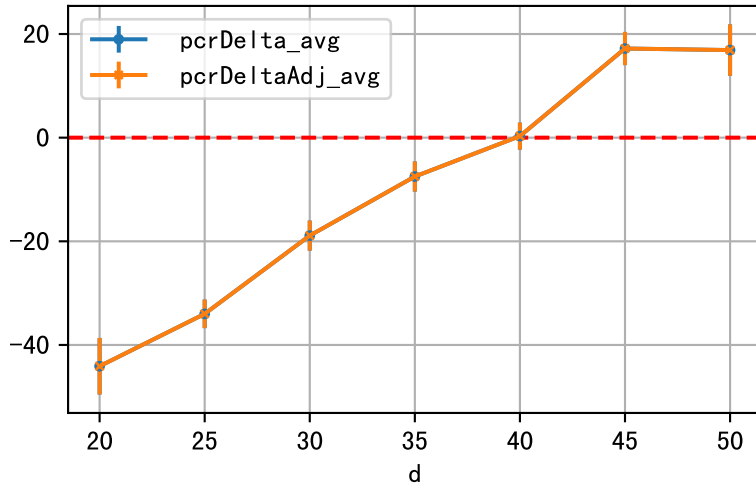
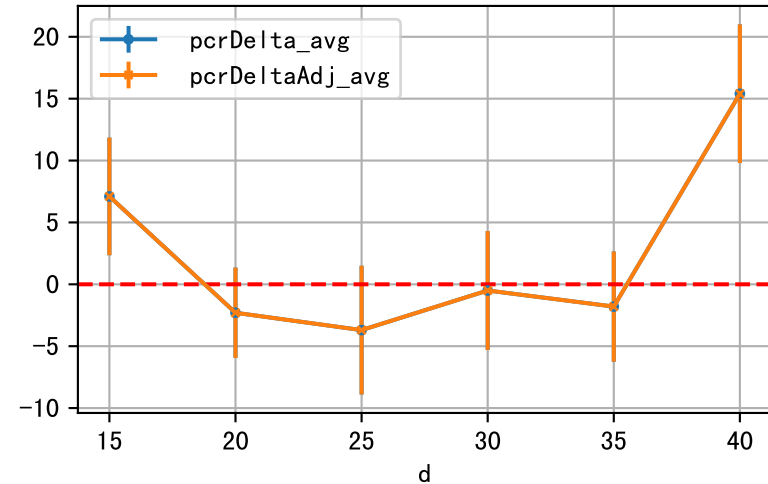


## P9AE NdD: D\_Q50\_NdD

DeltaTypeAbbr=GrpByAge

DeltaTypeAbbr=GrpByDay

DeltaTypeAbbr=WeiAvgByD

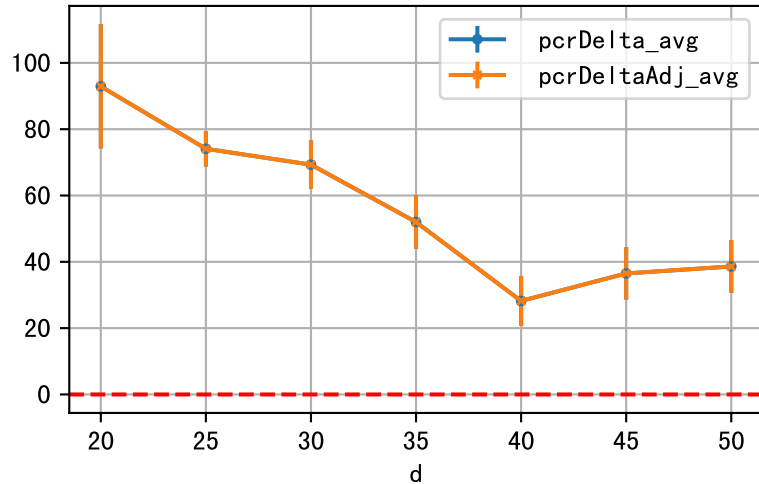
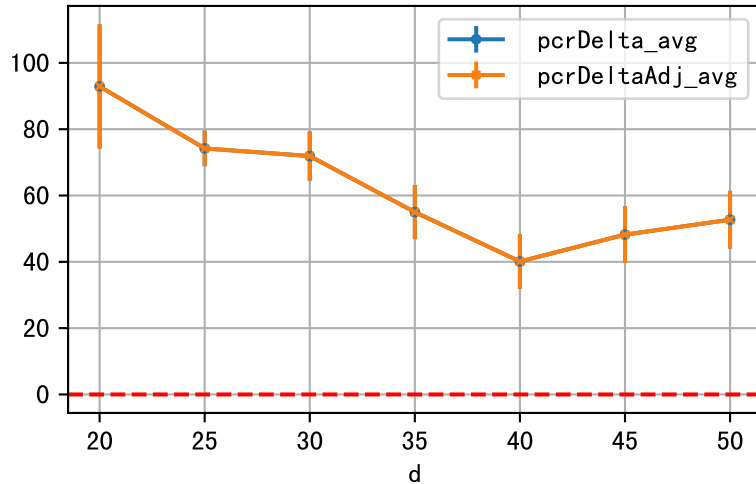
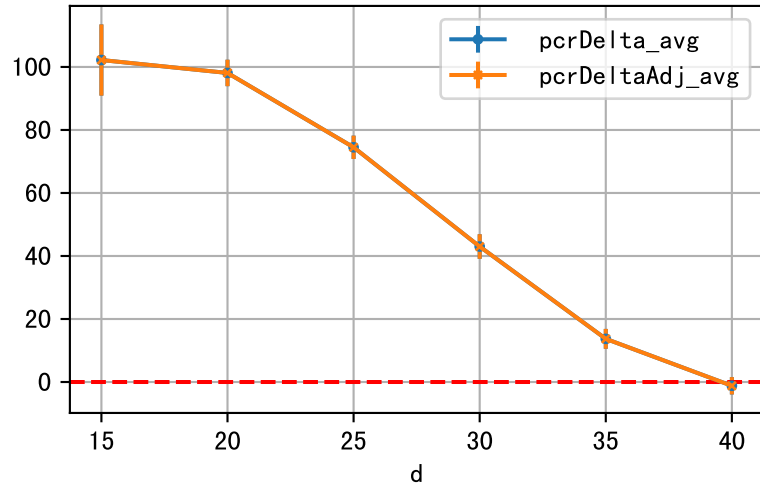


# P9AE NdD: D\_Est\_NdD

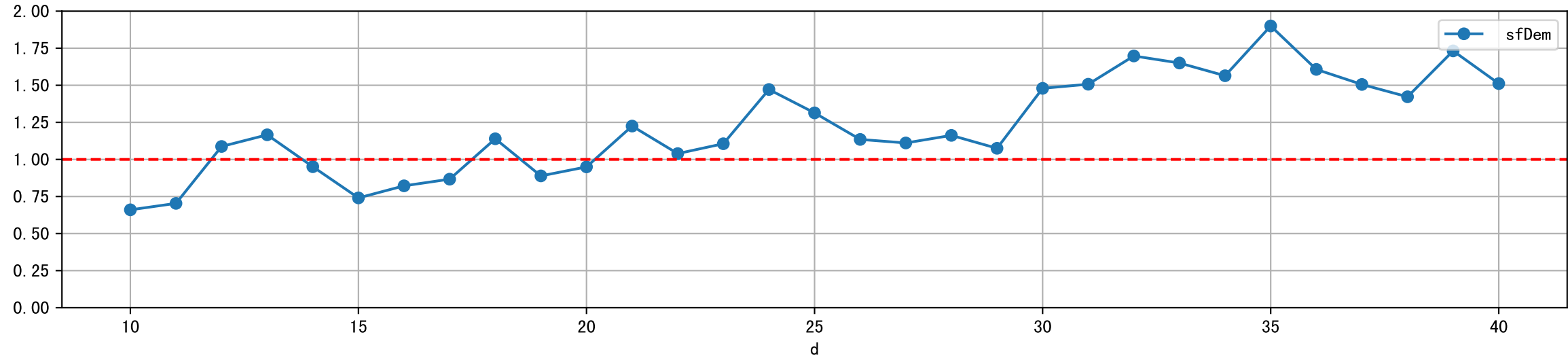
DeltaTypeAbbr=GrpByAge

DeltaTypeAbbr=GrpByDay

DeltaTypeAbbr=WeiAvgByD

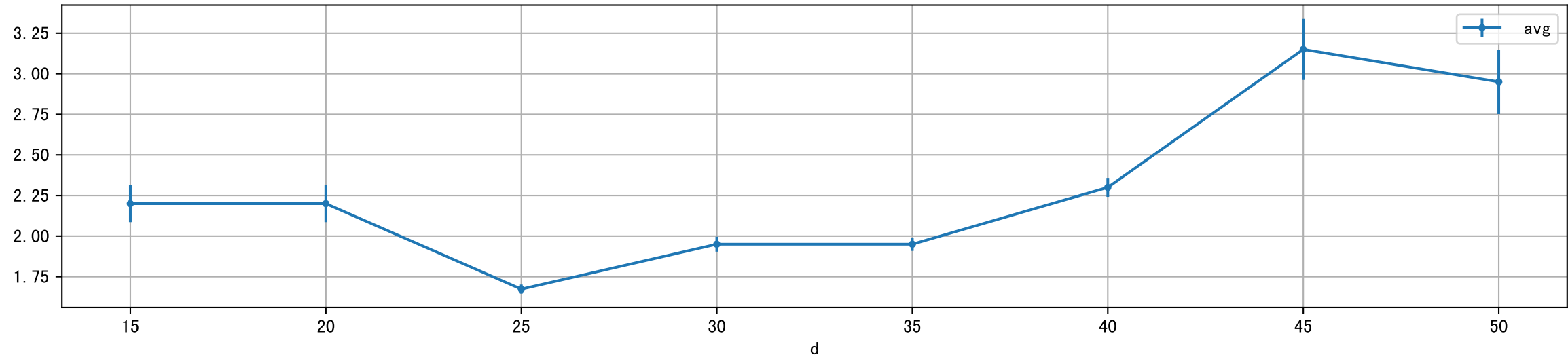


NdD: sfDem

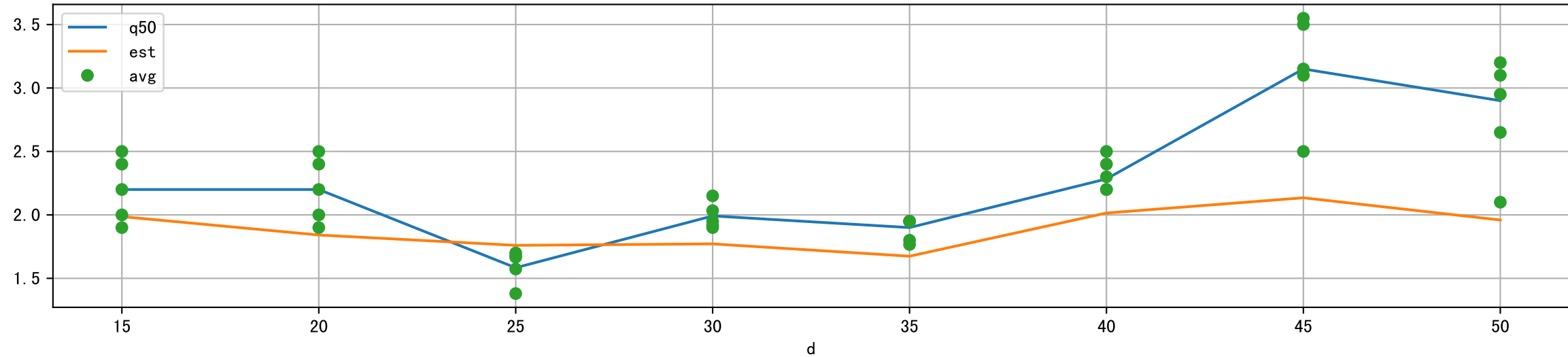




dStH: avg vs. d

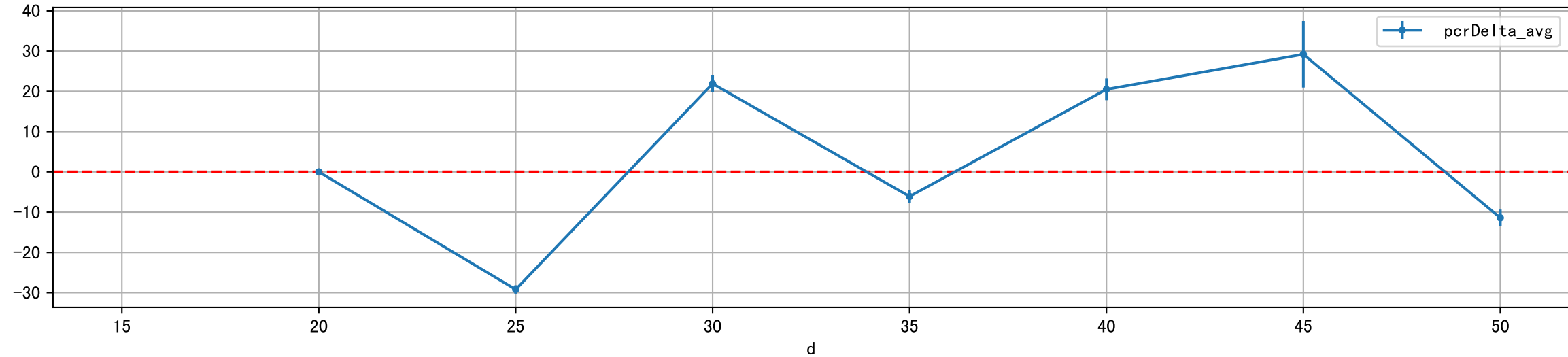


dStH: obsAvg vs obs0v@Q50

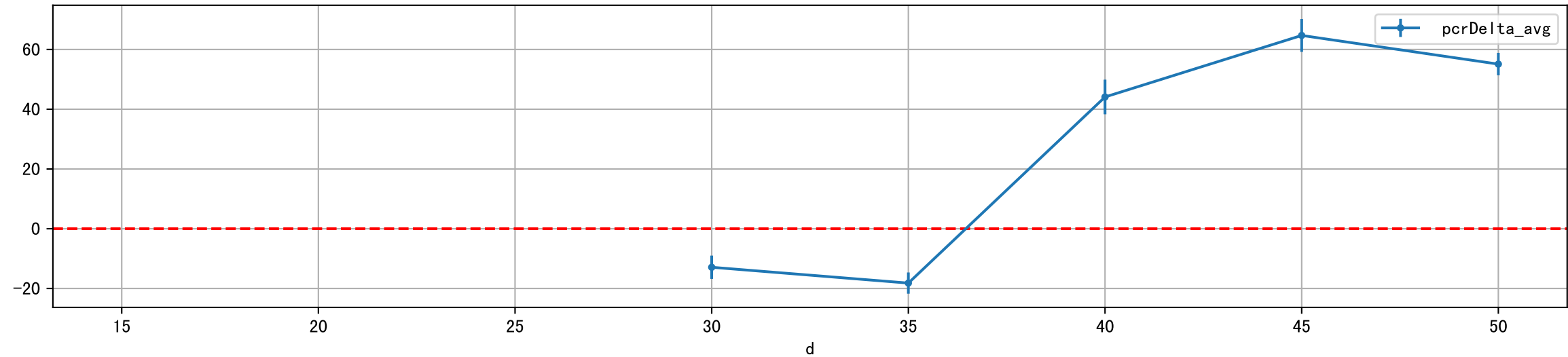




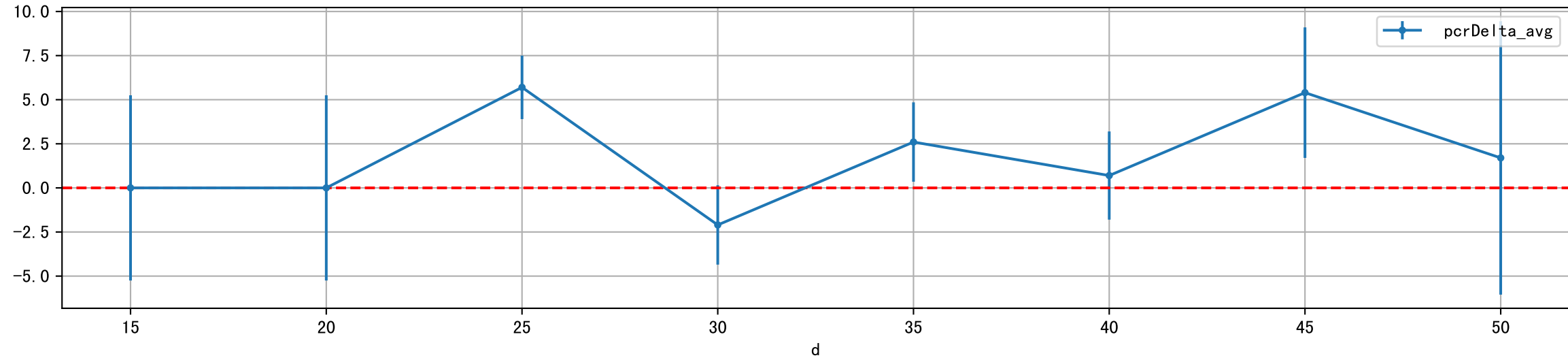
dStH: D\_5d\_StH



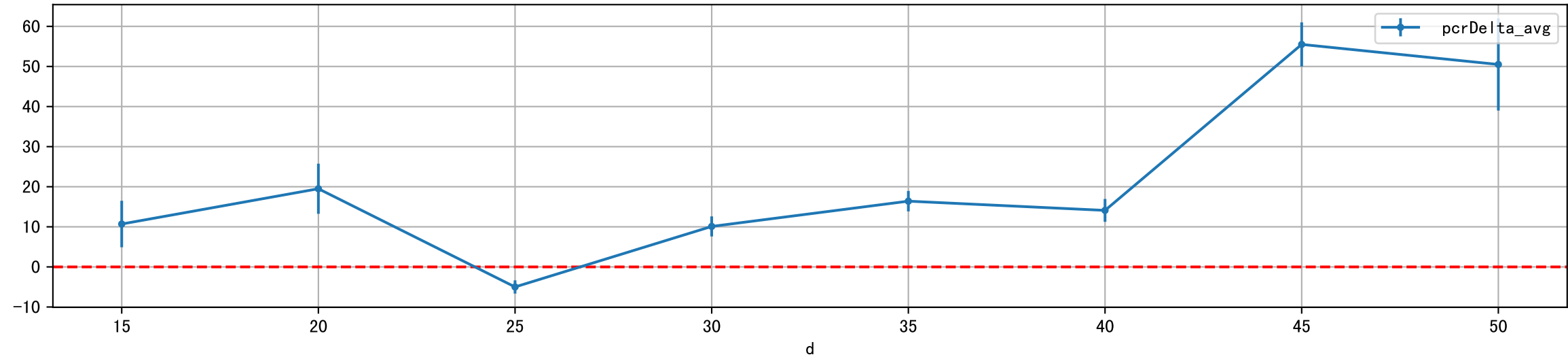
dStH: D\_15d\_StH



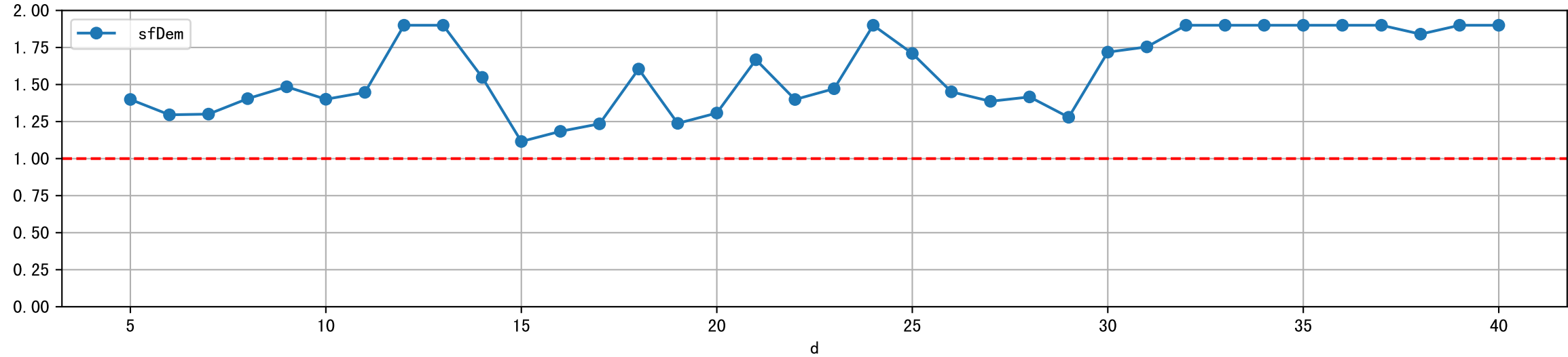
dStH: D\_Q50\_StH

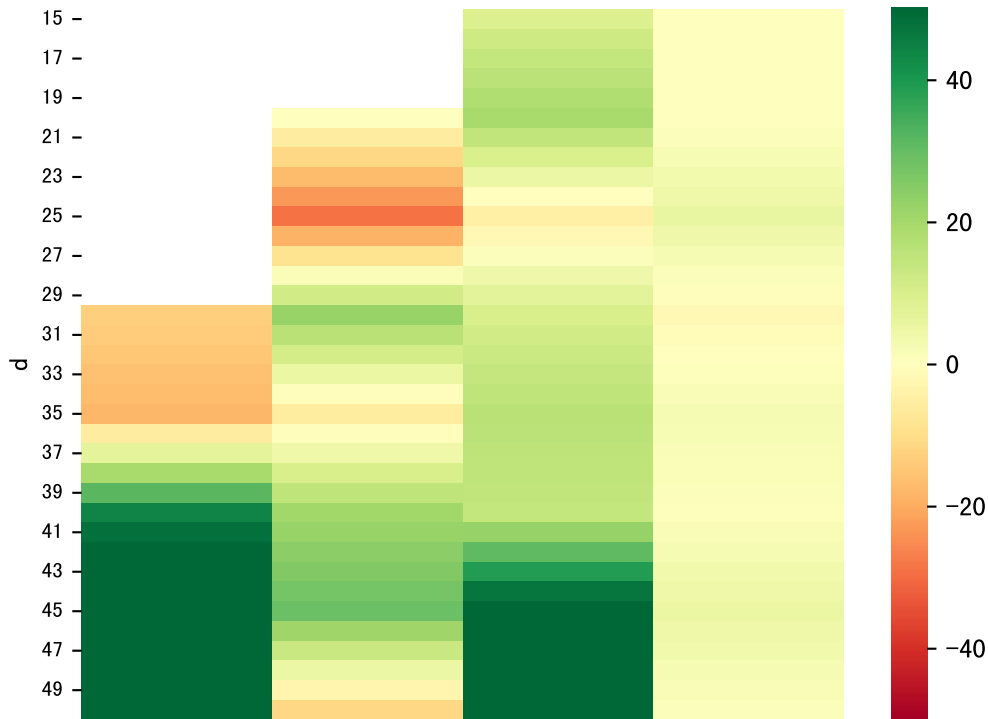


dStH: D\_Est\_StH

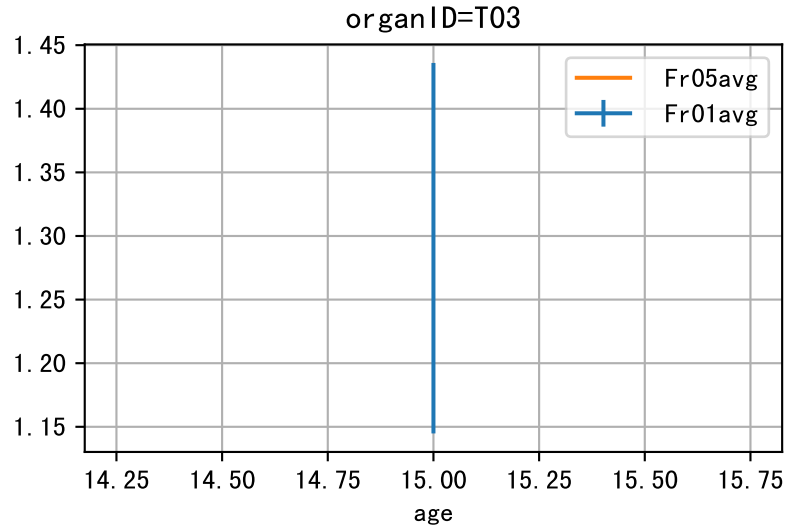
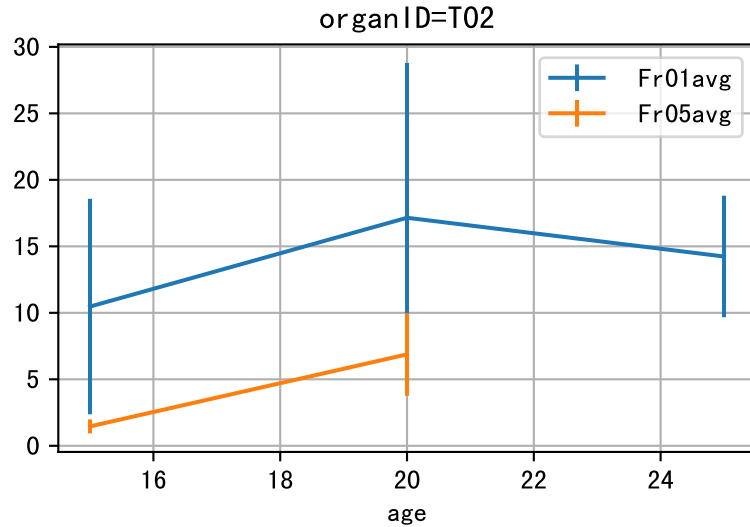
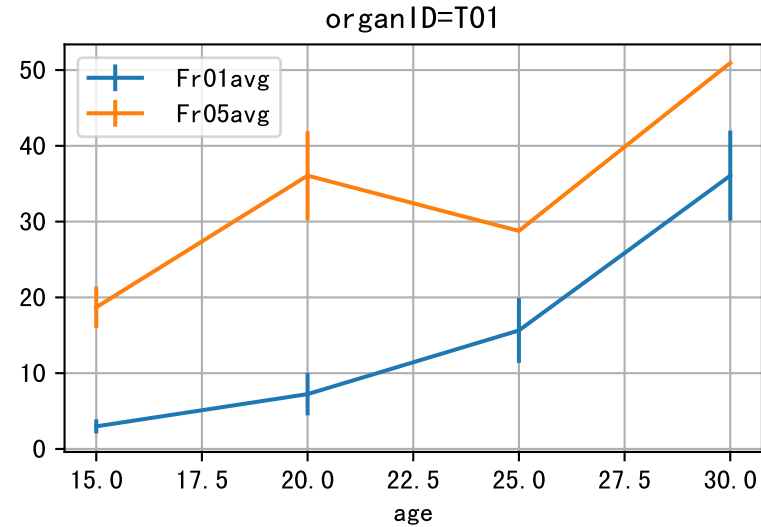


dStH: sfDem



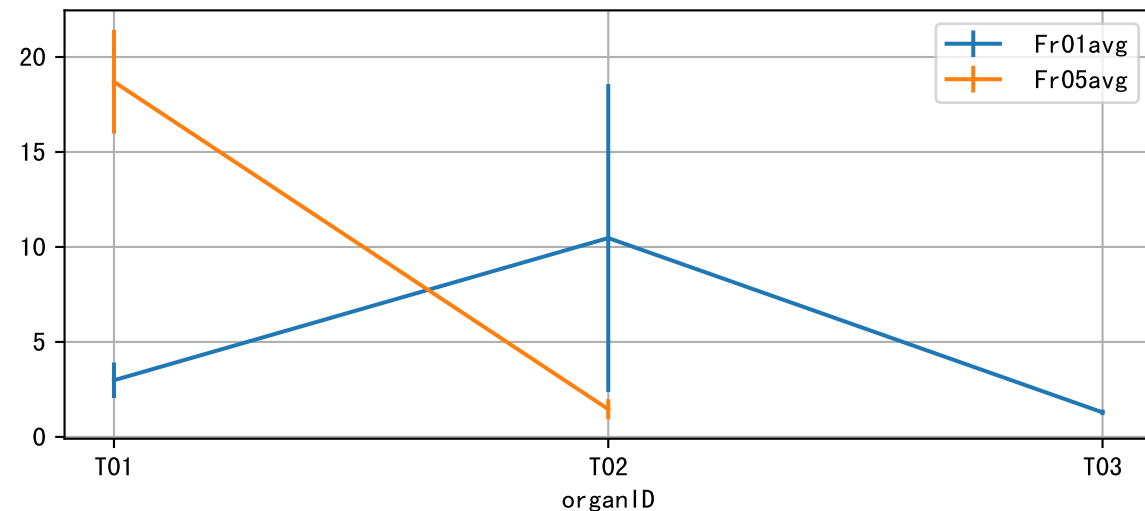


## FrV: Fr01 vs Fr05 at each truss

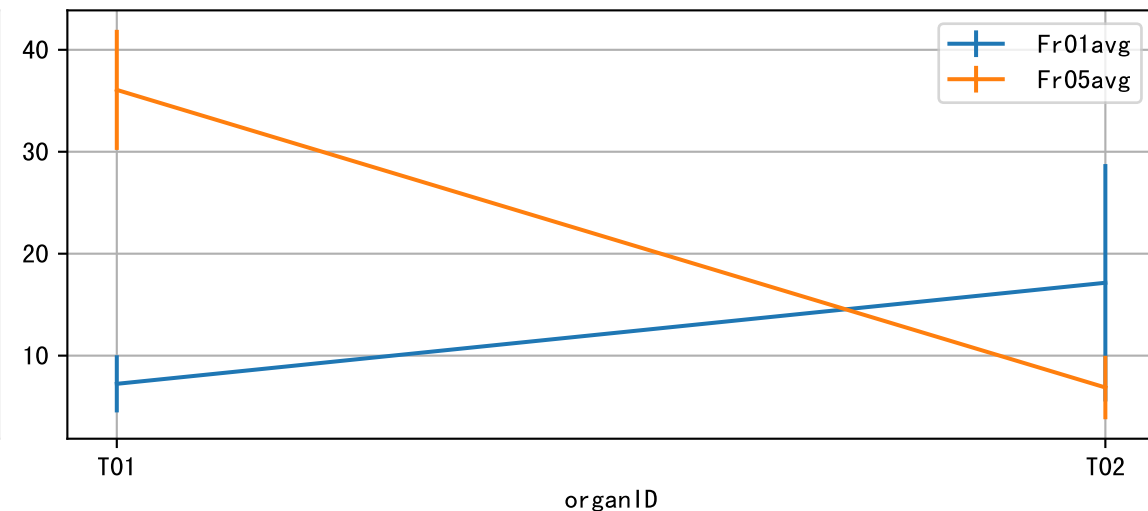


# FrV trend at each age

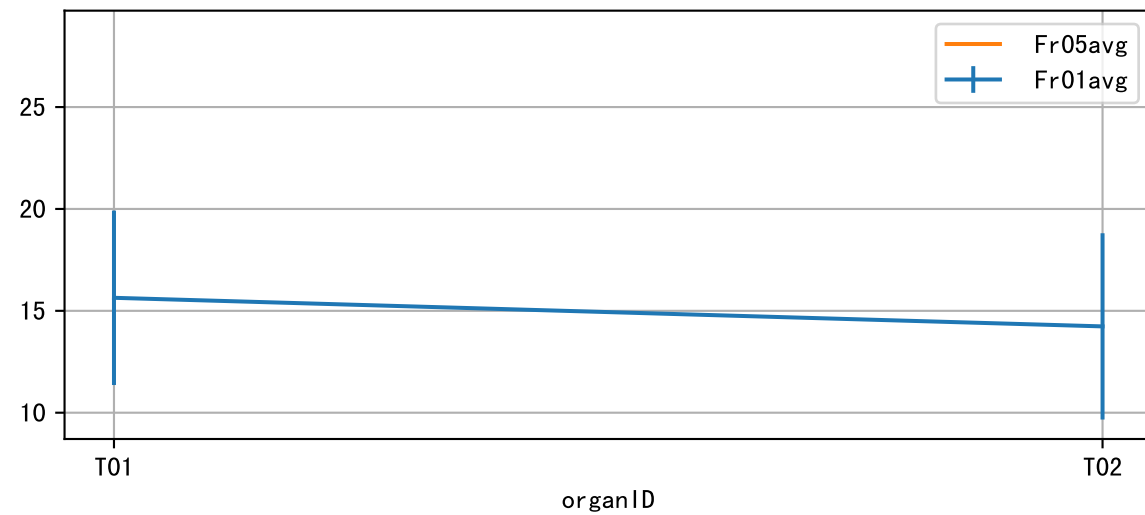
age=15



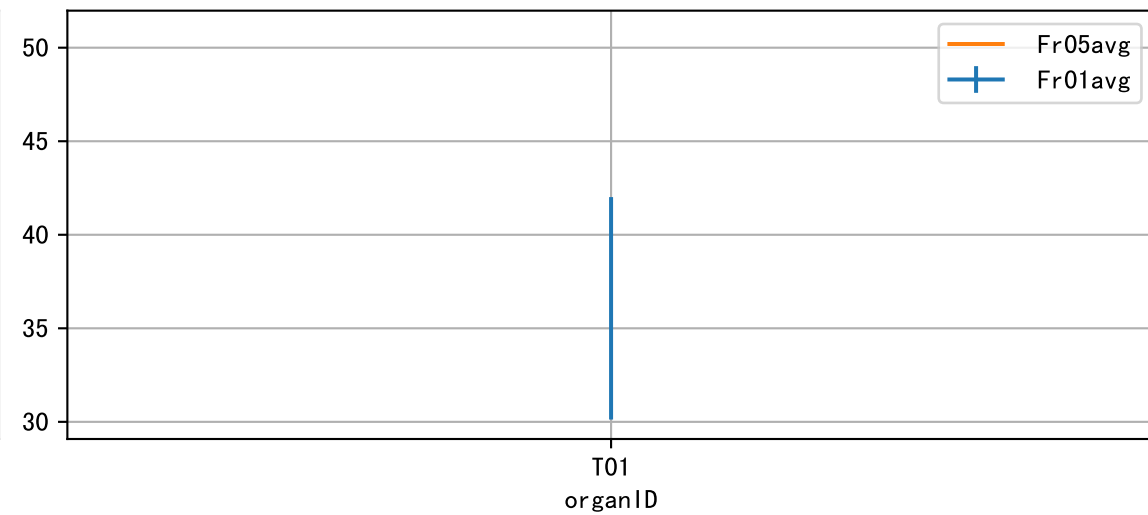
age=20



age=25

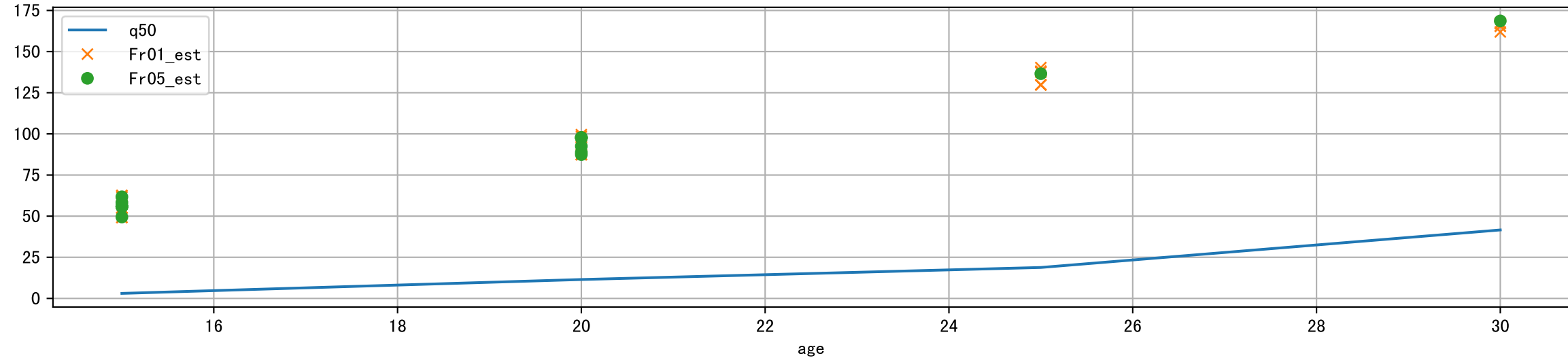


age=30

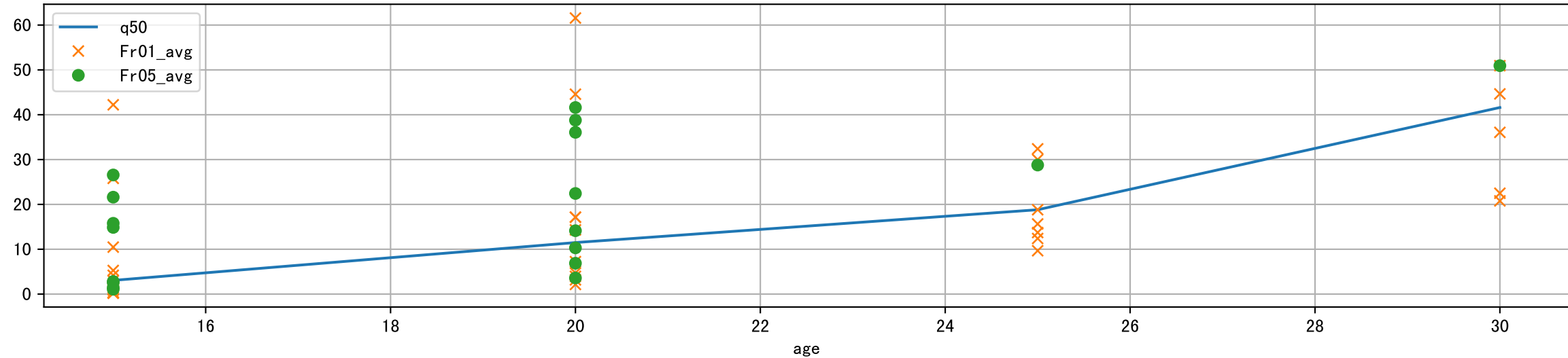




FrV: model Est vs obsFrV at Q90

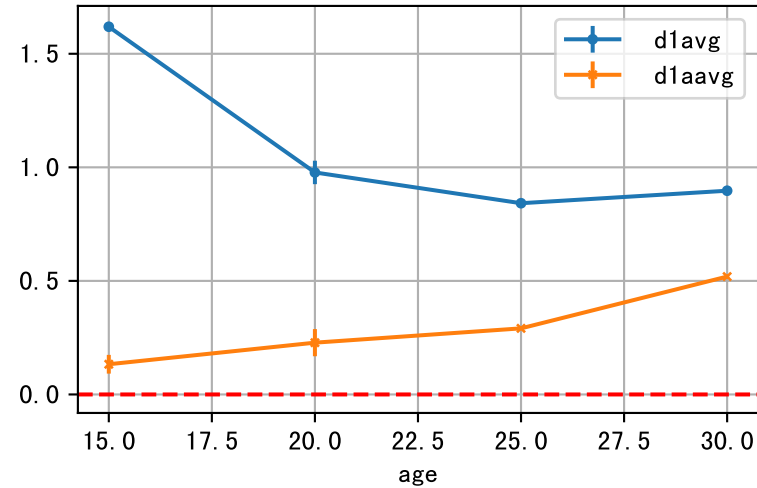


FrV: obsFrV vs obsFrV@Q90

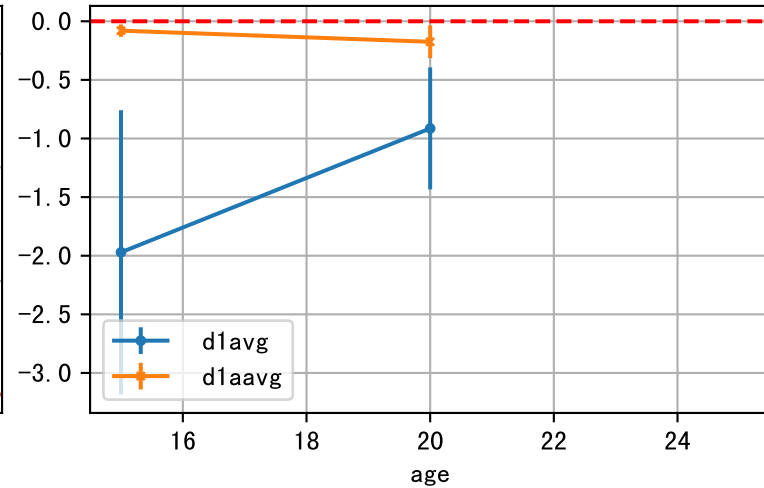


## FrV: D\_Fr1\_FrV

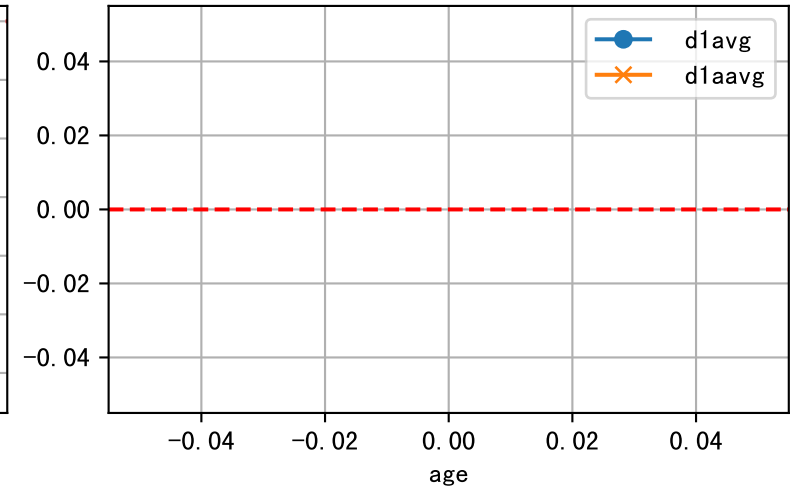
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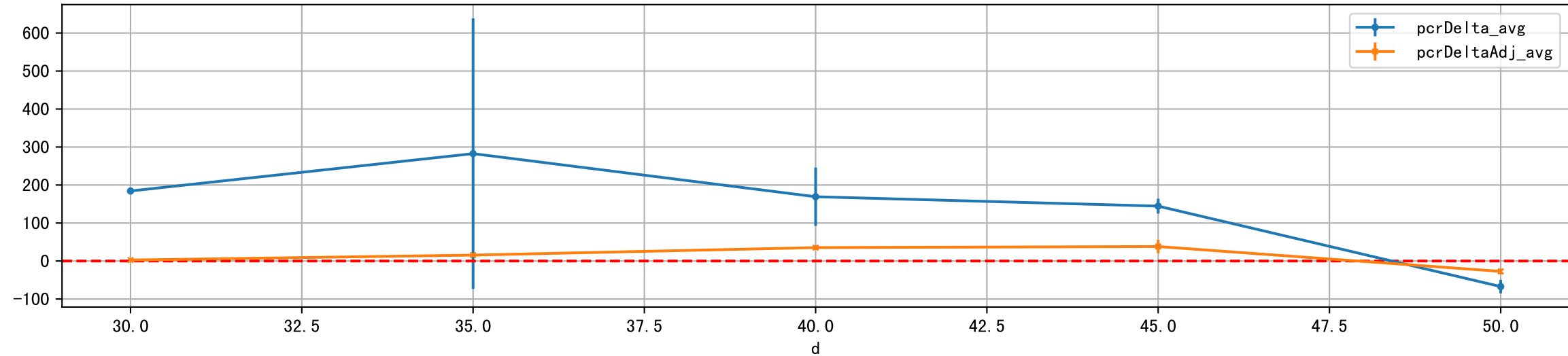
organID=2



organID=3

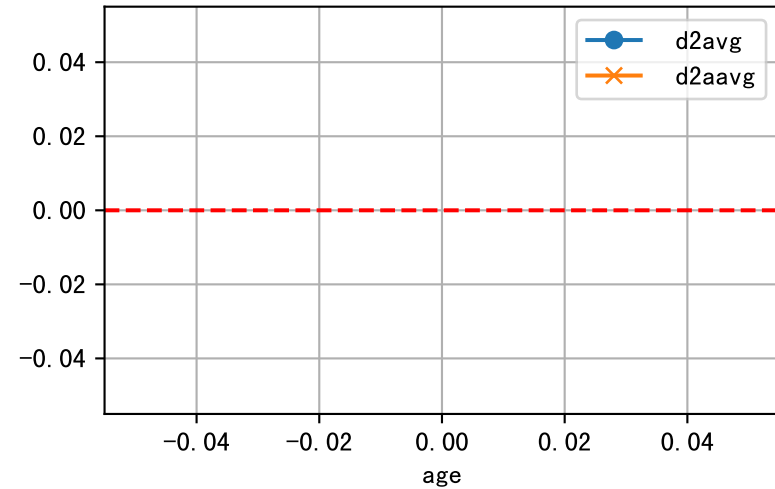


P9AE FrV: D\_Fr1\_FrV

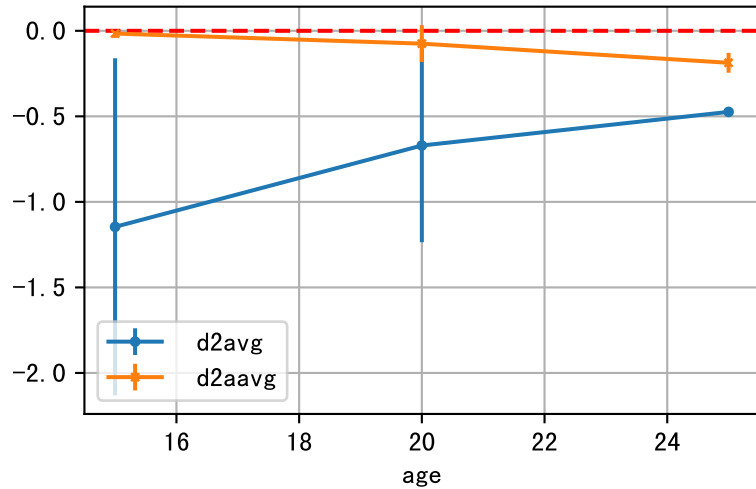


FrV: D\_Ts\_FrV

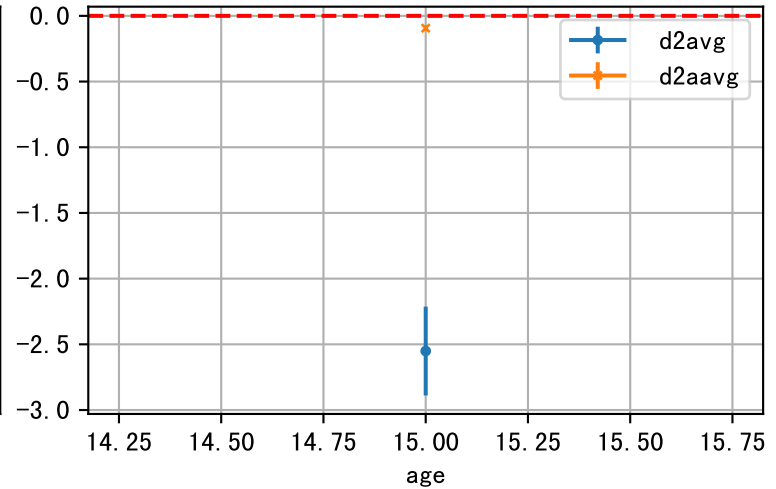
organID=1



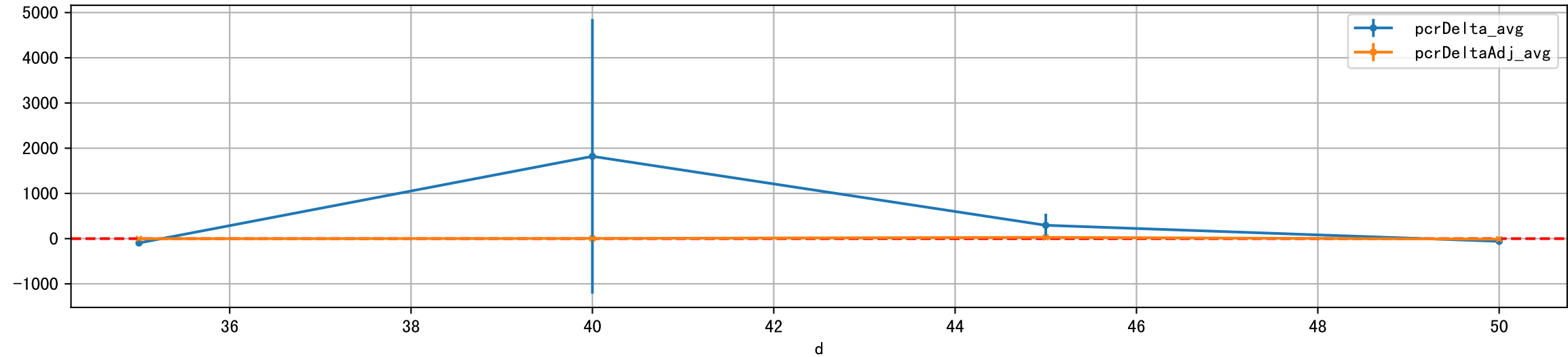
organID=2



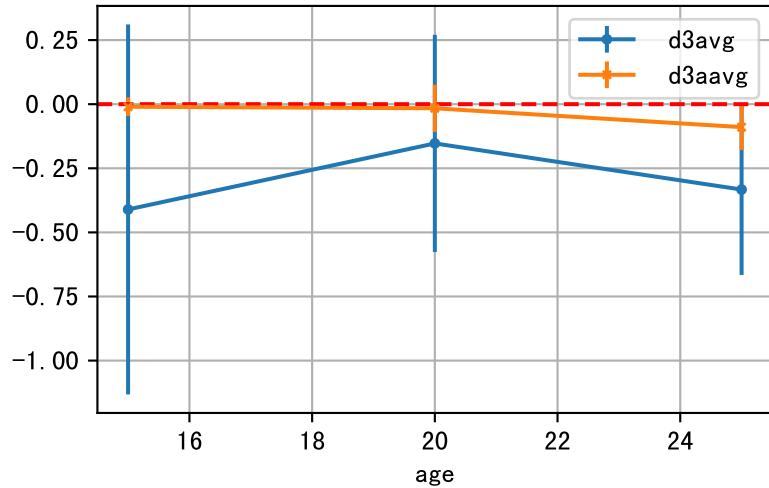
organID=3



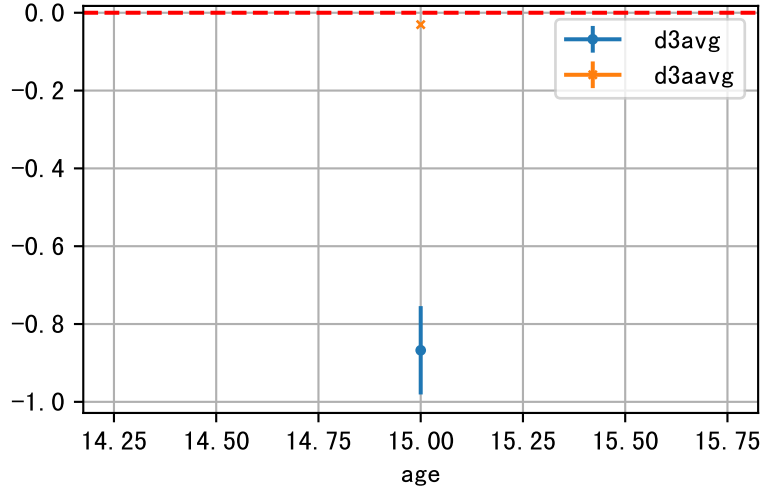
P9AE FrV: D\_Ts\_FrV



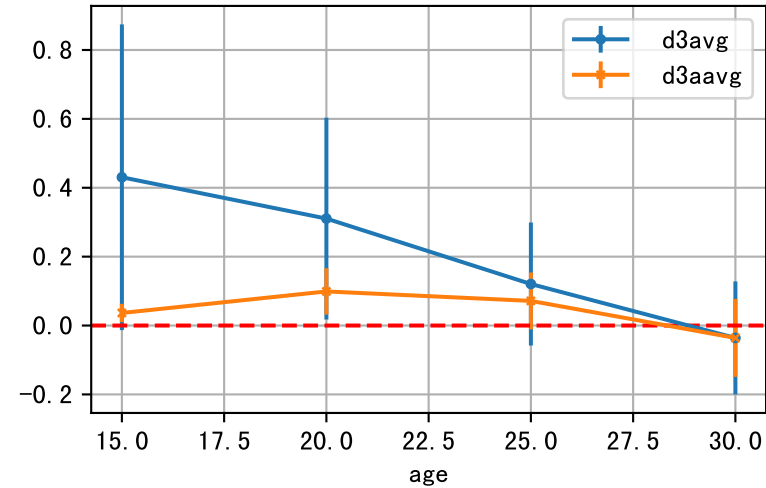
FrV: D\_Q50\_FrV  
organID=2



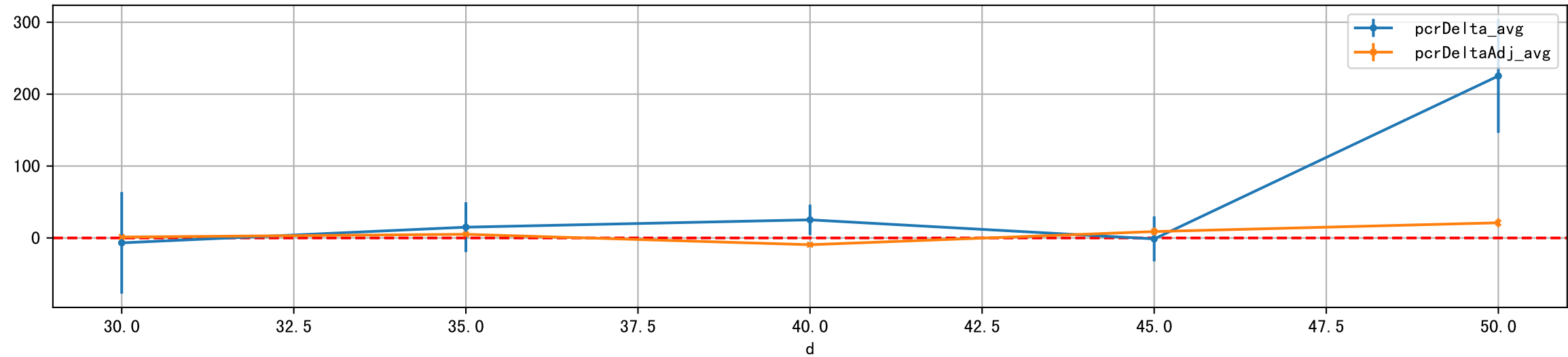
organID=3



organID=1

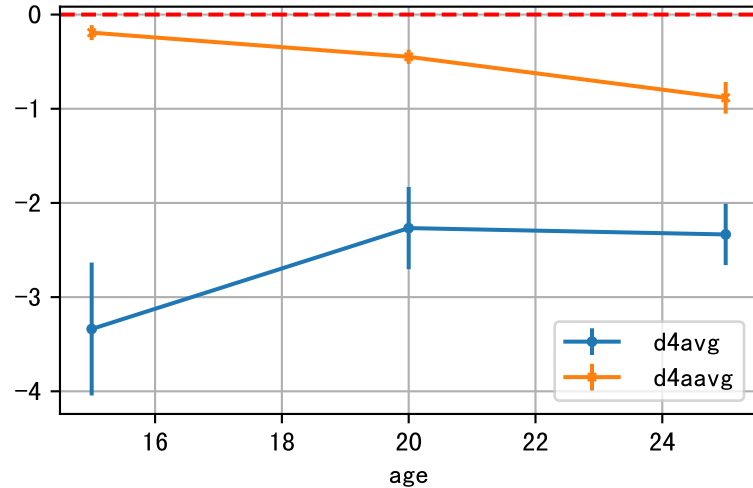


P9AE FrV: D\_Q50\_FrV

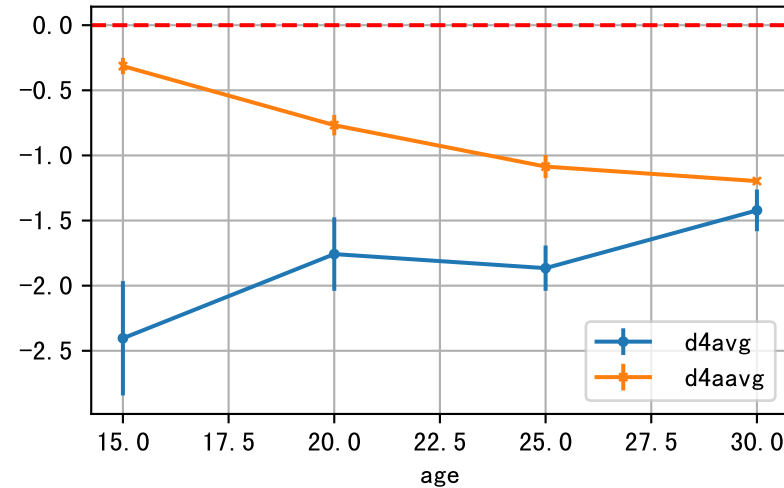




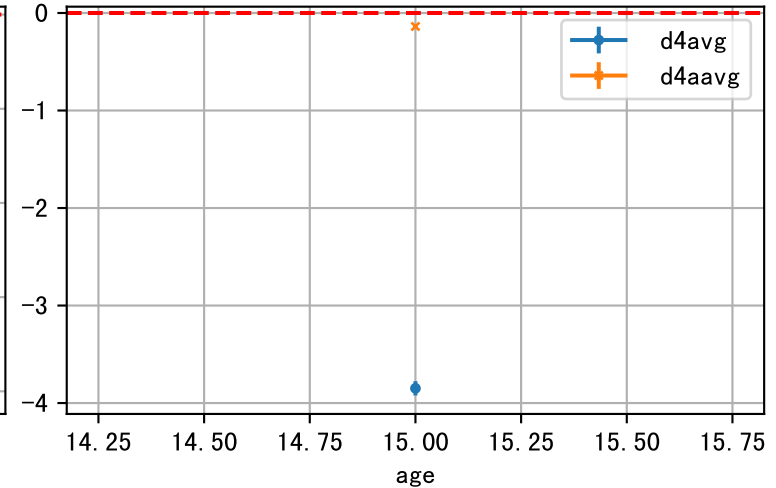
FrV: D\_Est\_FrV  
organID=2



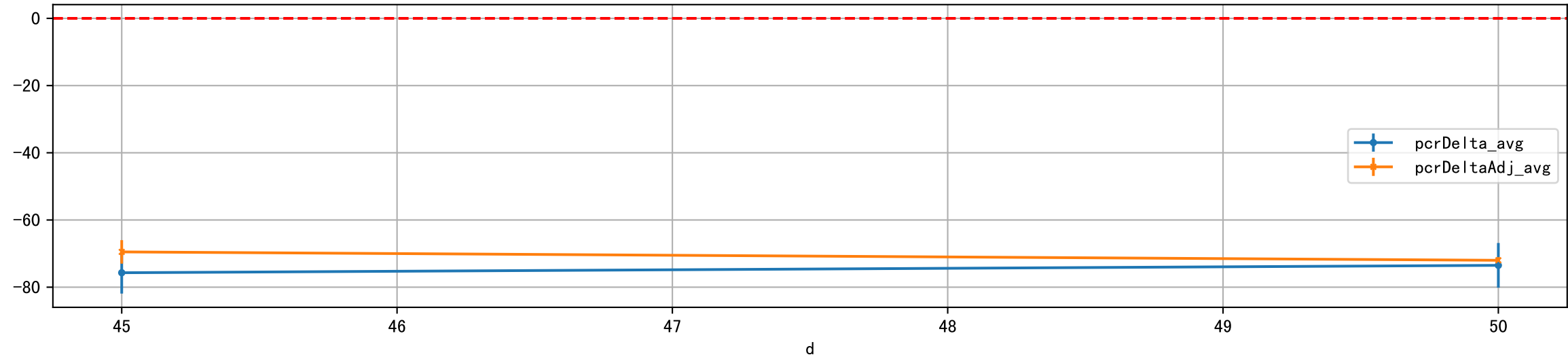
organID=1



organID=3



P9AE FrV: D\_Est\_FrV



P9AE FrV: sfDem

