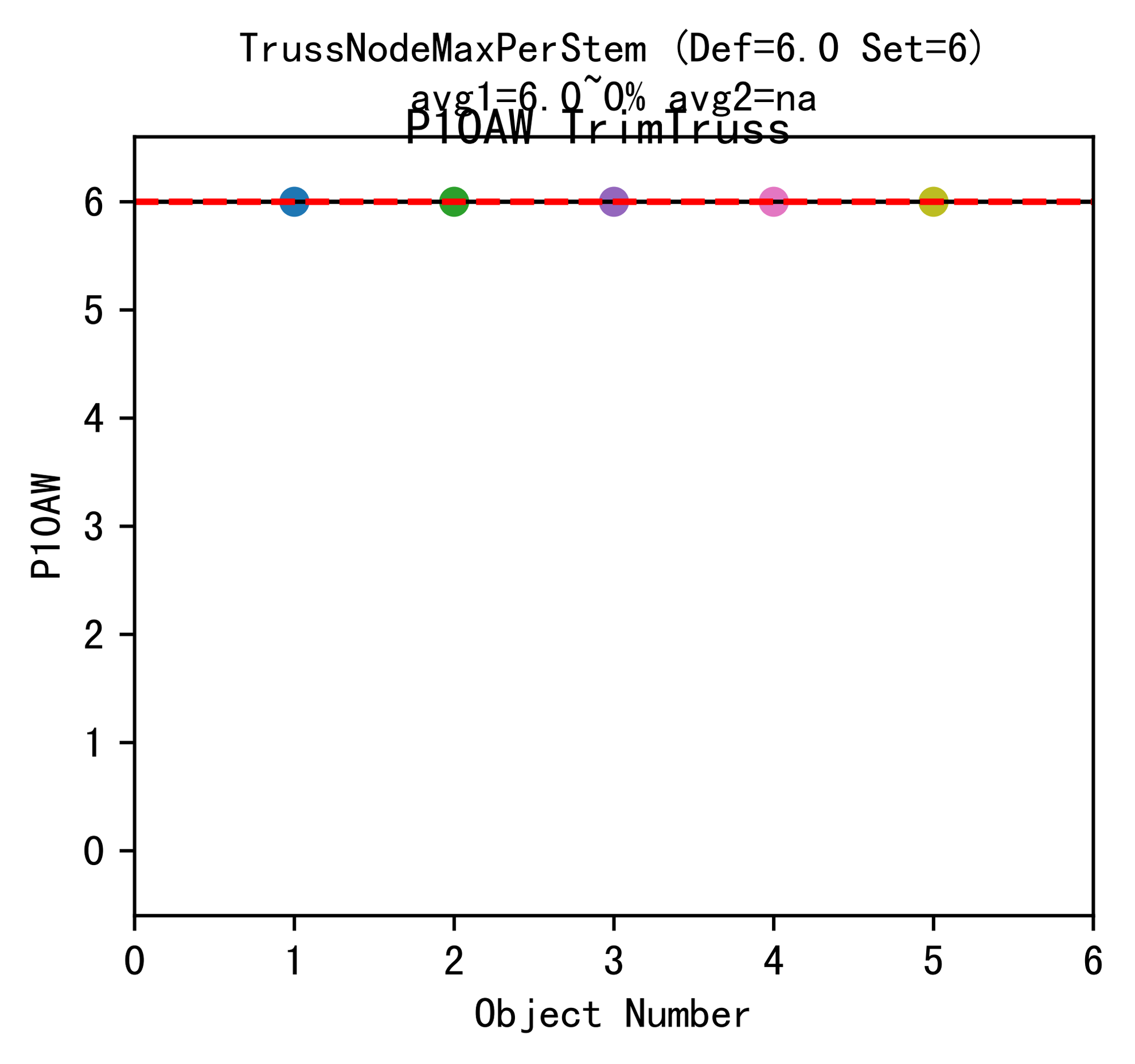
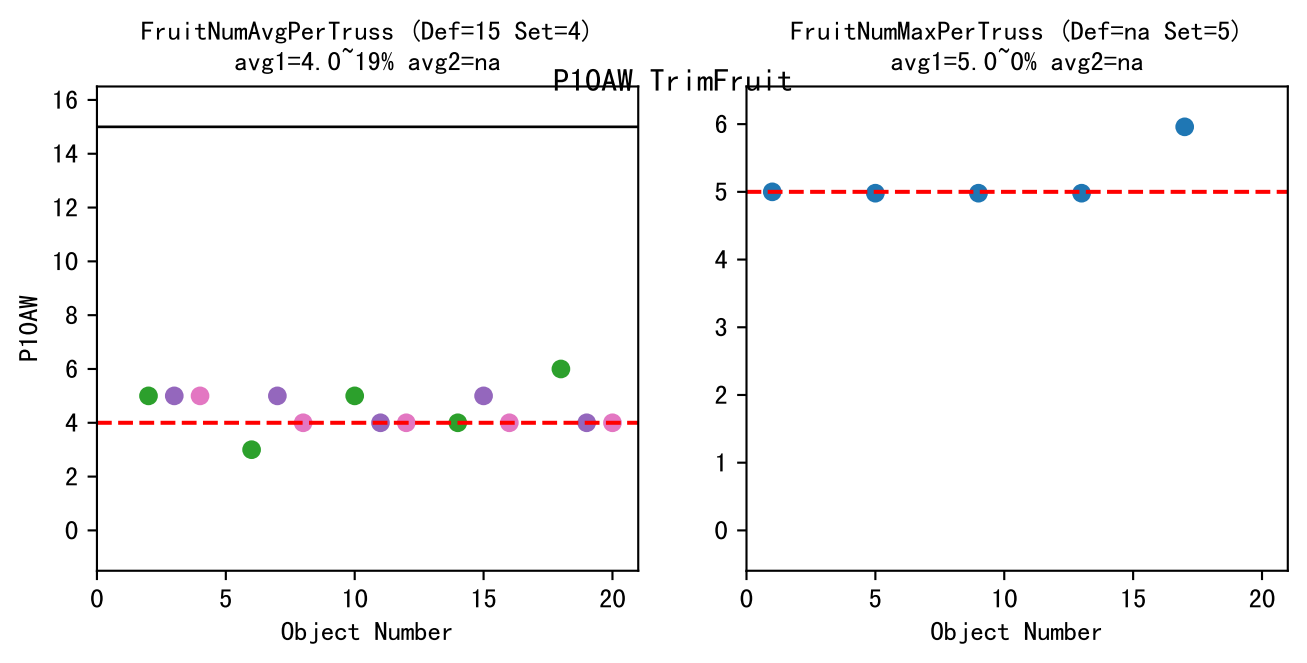
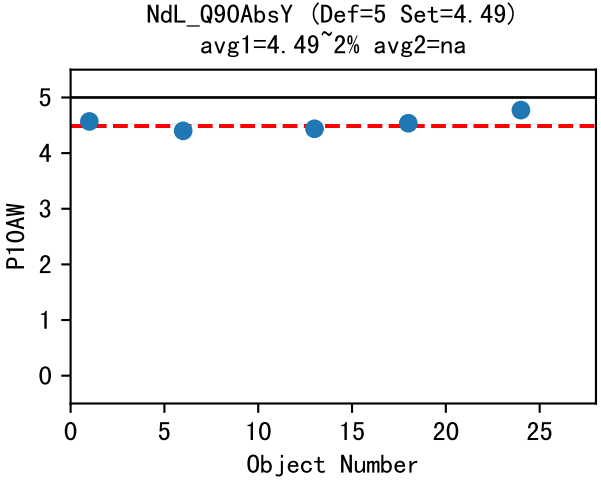
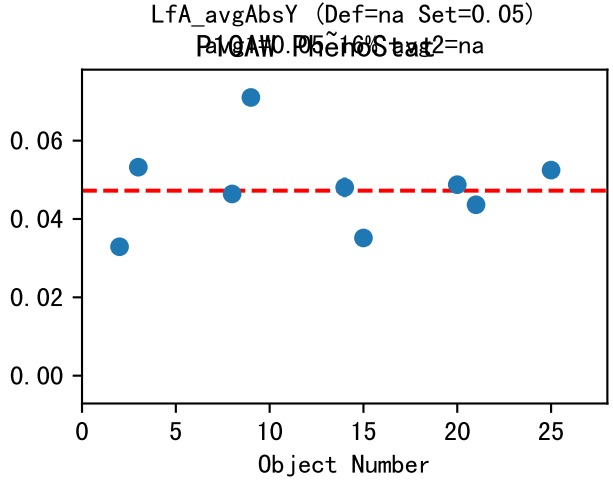
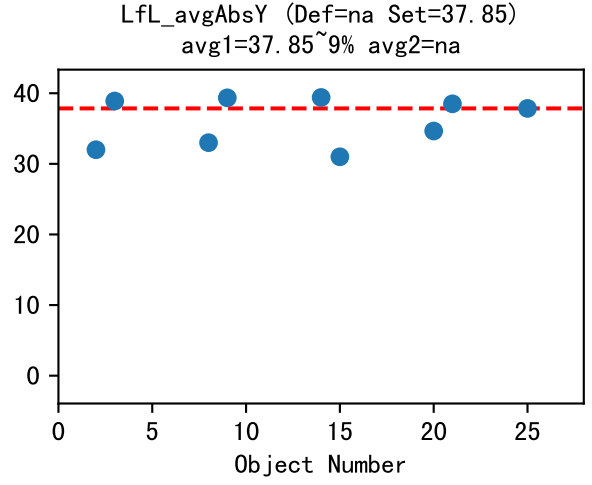
Phenotype Data Analysis Plots
PhenoData day range = 10 - 52
Analysis cutoff day = 52
NC11 P10
2025-05-23 (Day 53)

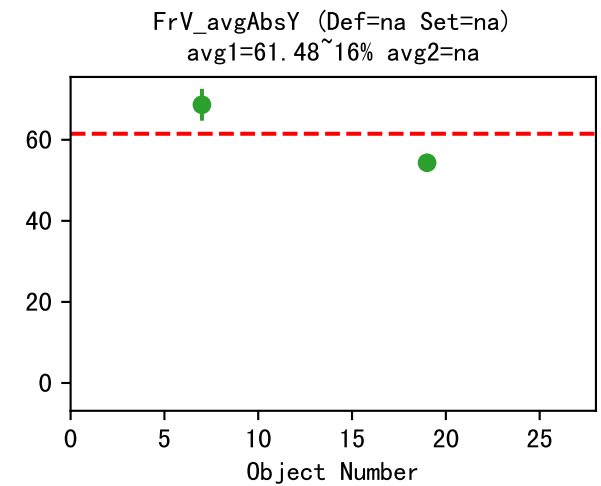

TrussNodeMaxPerStem (Def=6.0 Set=6)
avg1=6.0~0% avg2=na
P10AW TrimTruss
P10AW
Object Number
0
1
2
3
4
5
6

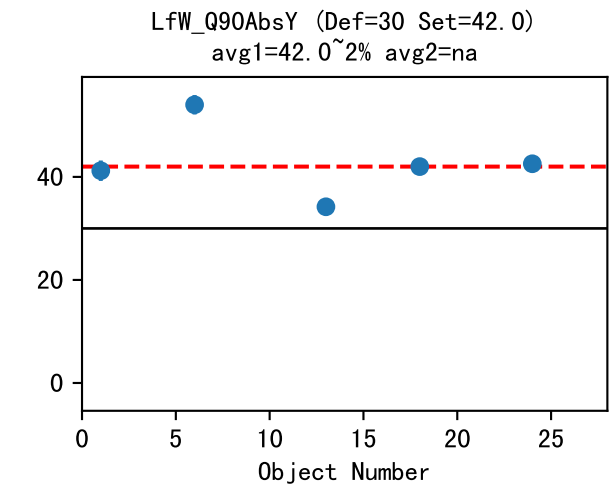

P10AW TrimFruit
FruitNumAvgPerTruss (Def=15 Set=4)
avg1=4.0~19% avg2=na
FruitNumMaxPerTruss (Def=na Set=5)
avg1=5.0~0% avg2=na
P10AW
Object Number
Object Number

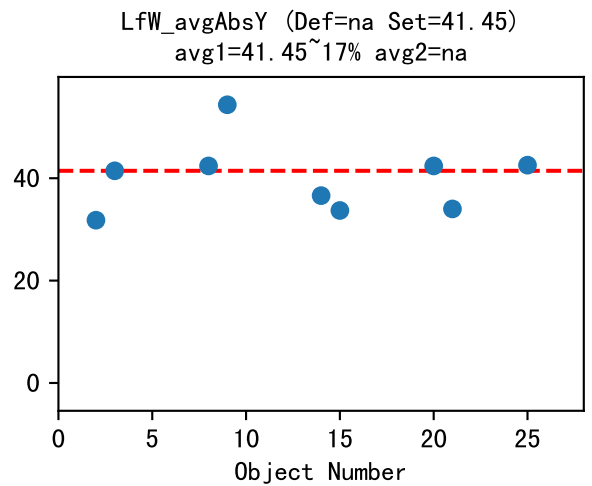

NdL_Q90AbsY (Def=5 Set=4.49)
avg1=4.49~2% avg2=na
P10AW
Object Number

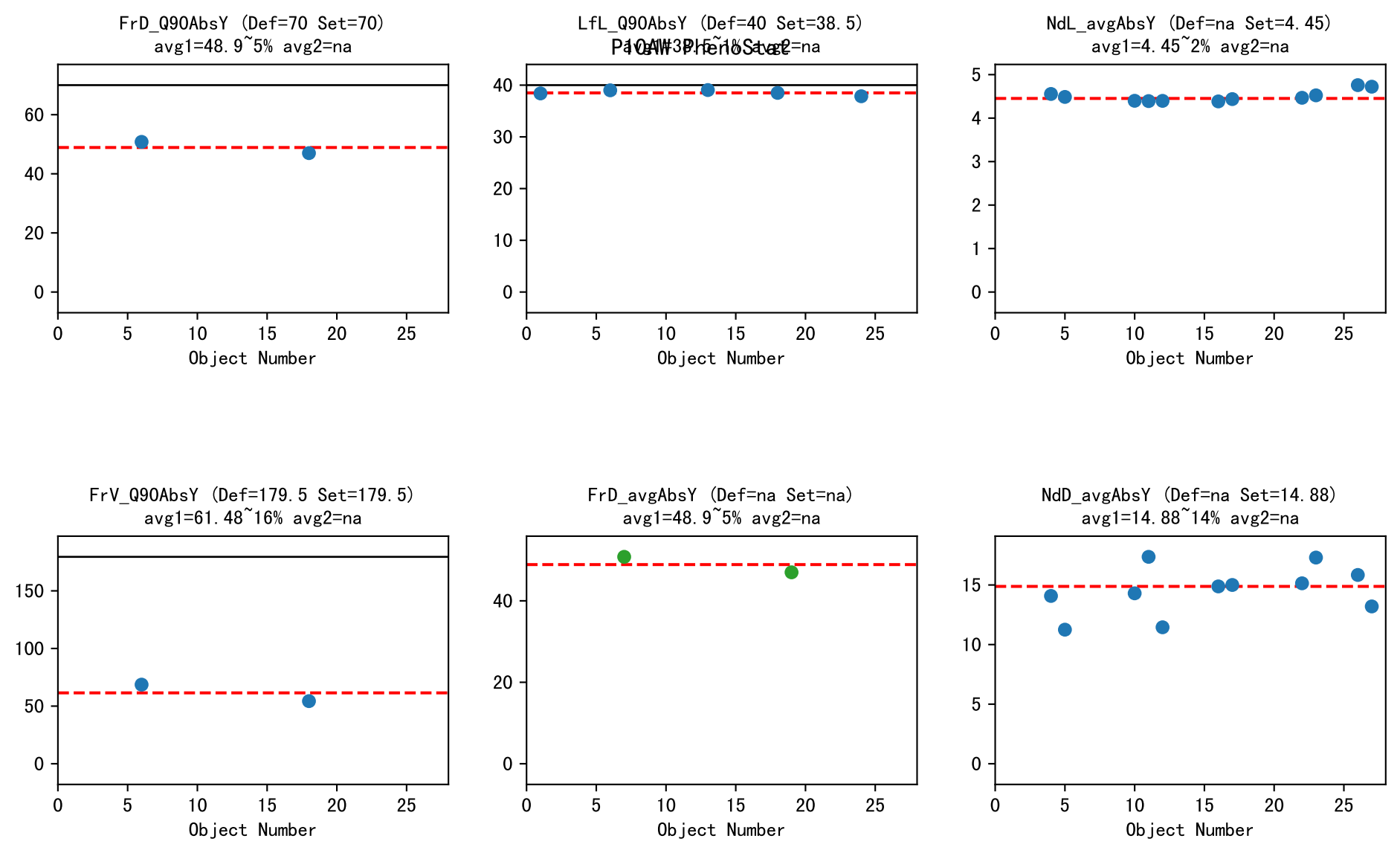

LfA_avgAbsY (Def=na Set=0.05)
Object Number

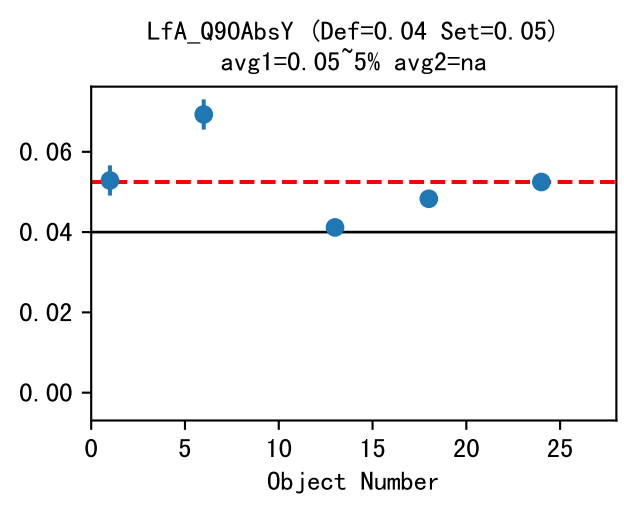

LfL_avgAbsY (Def=na Set=37.85)
avg1=37.85~9% avg2=na
Object Number

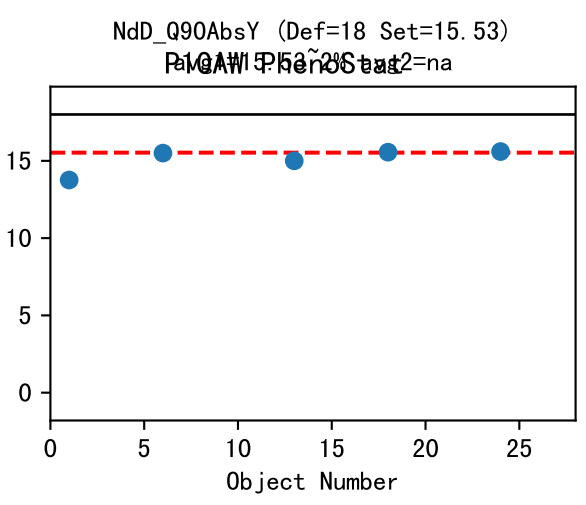

FrV_avgAbsY (Def=na Set=na)
avg1=61.48~16% avg2=na
Object Number

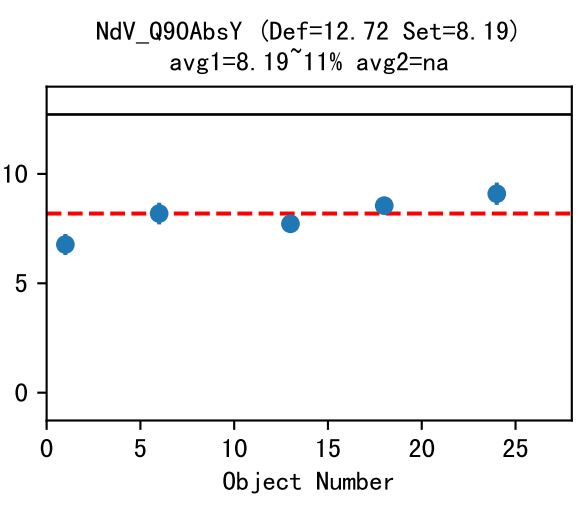

LfW_Q90AbsY (Def=30 Set=42.0)
avg1=42.0~2% avg2=na
Object Number

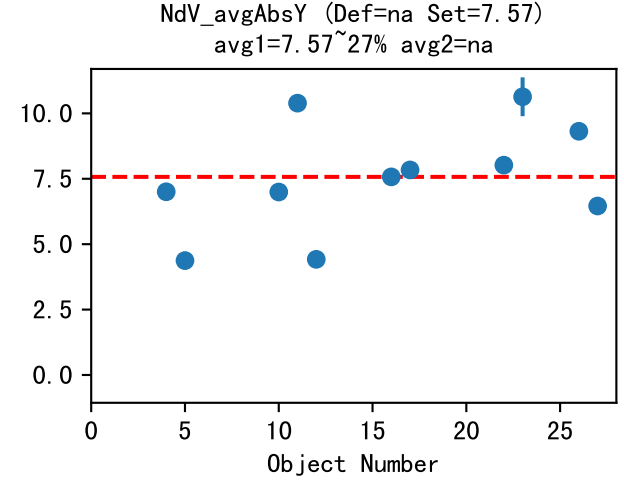

LfW_avgAbsY (Def=na Set=41.45)
avg1=41.45~17% avg2=na
Object Number

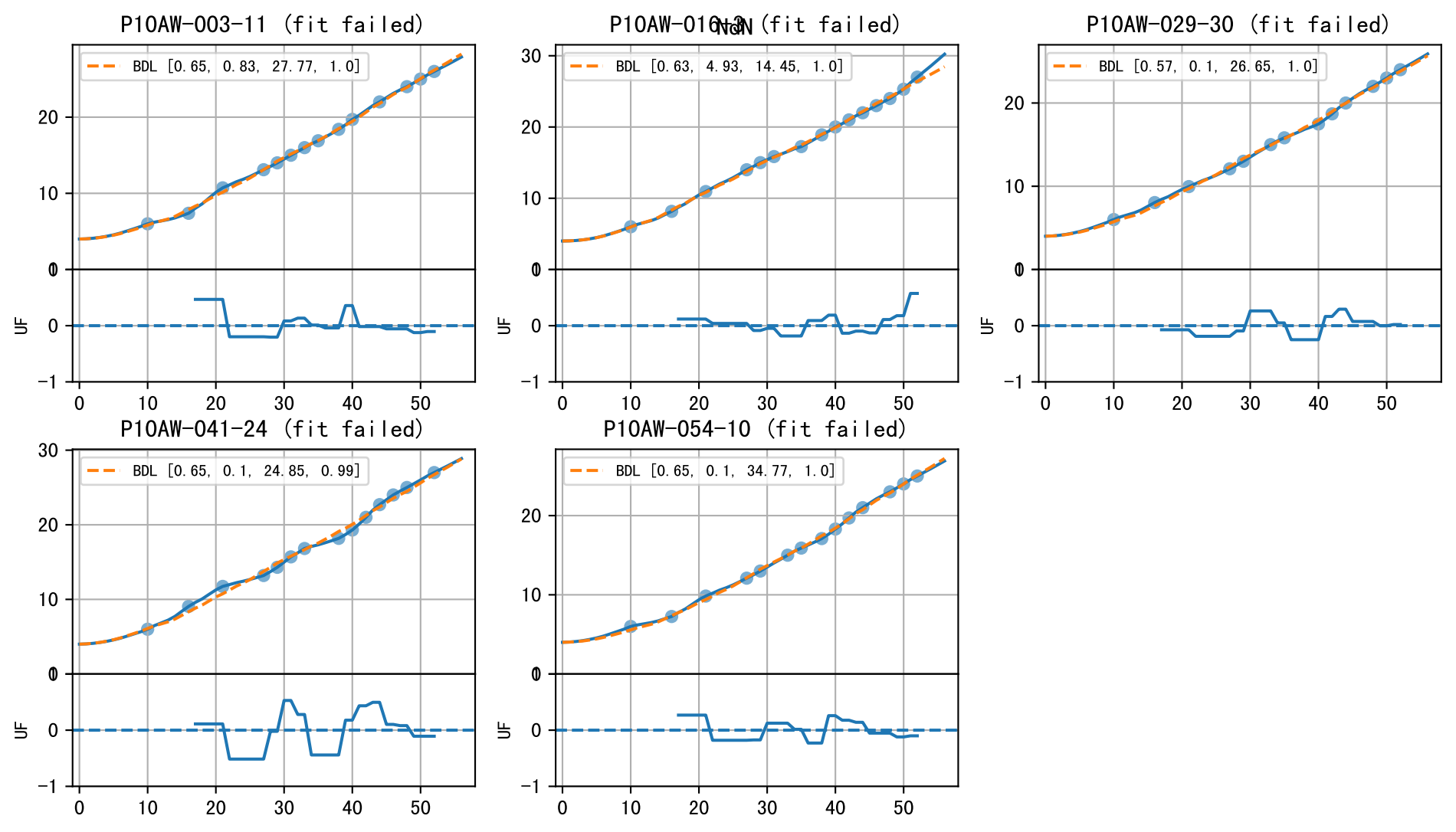

FrD_Q90AbsY (Def=70 Set=70)
avg1=48.9~5% avg2=na
Object Number
LfL_Q90AbsY (Def=40 Set=38.5)
Object Number
NdL_avgAbsY (Def=na Set=4.45)
avg1=4.45~2% avg2=na
Object Number
FrV_Q90AbsY (Def=179.5 Set=179.5)
avg1=61.48~16% avg2=na
Object Number
FrD_avgAbsY (Def=na Set=na)
avg1=48.9~5% avg2=na
Object Number
NdD_avgAbsY (Def=na Set=14.88)
avg1=14.88~14% avg2=na
Object Number

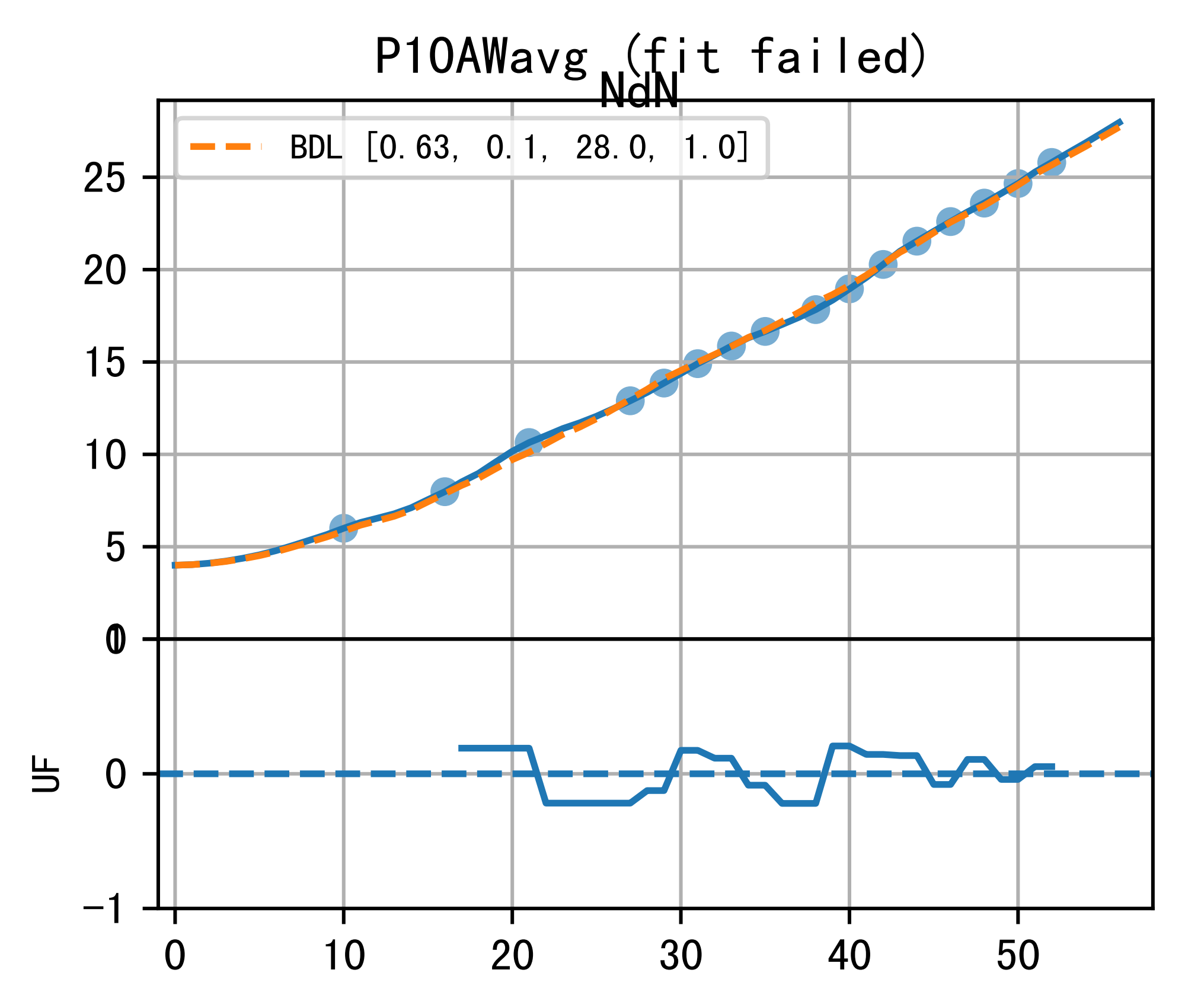

LfA_Q90AbsY (Def=0.04 Set=0.05)
avg1=0.05~5% avg2=na
0.06
0.04
0.02
0.00
0
5
10
15
20
25
Object Number

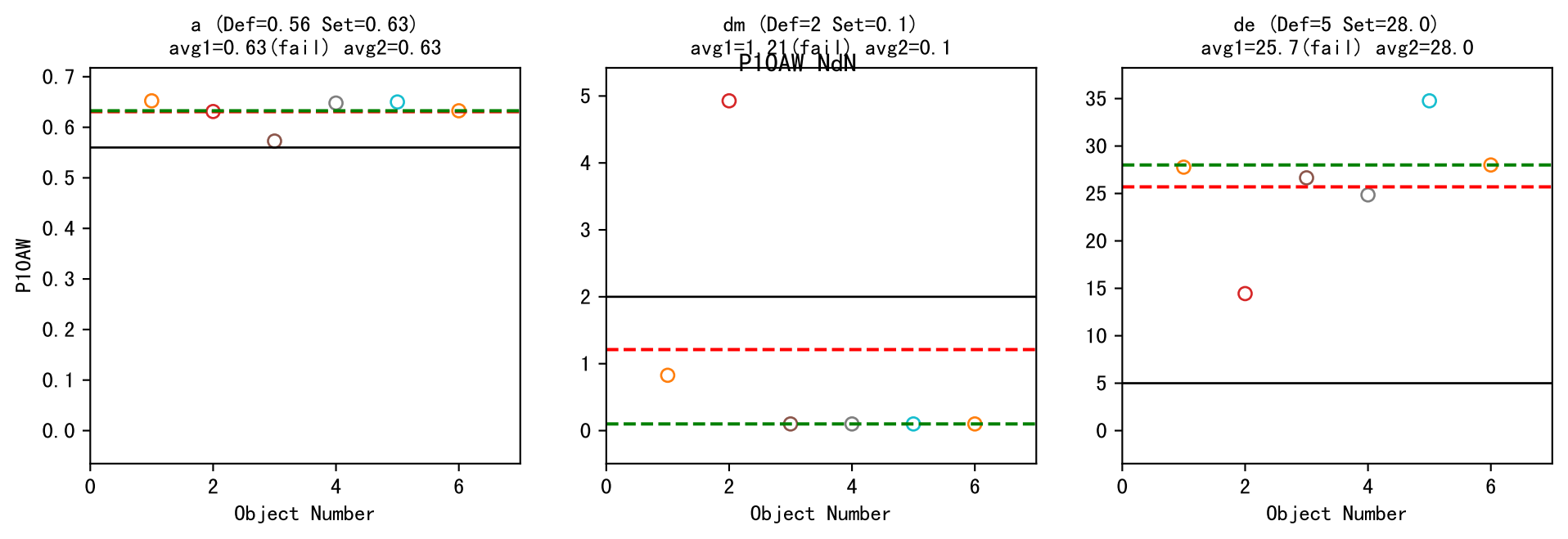

NdD_Q90AbsY (Def=18 Set=15.53)
avg1=15.53~2% avg2=na
15
10
5
0
0
5
10
15
20
25
Object Number

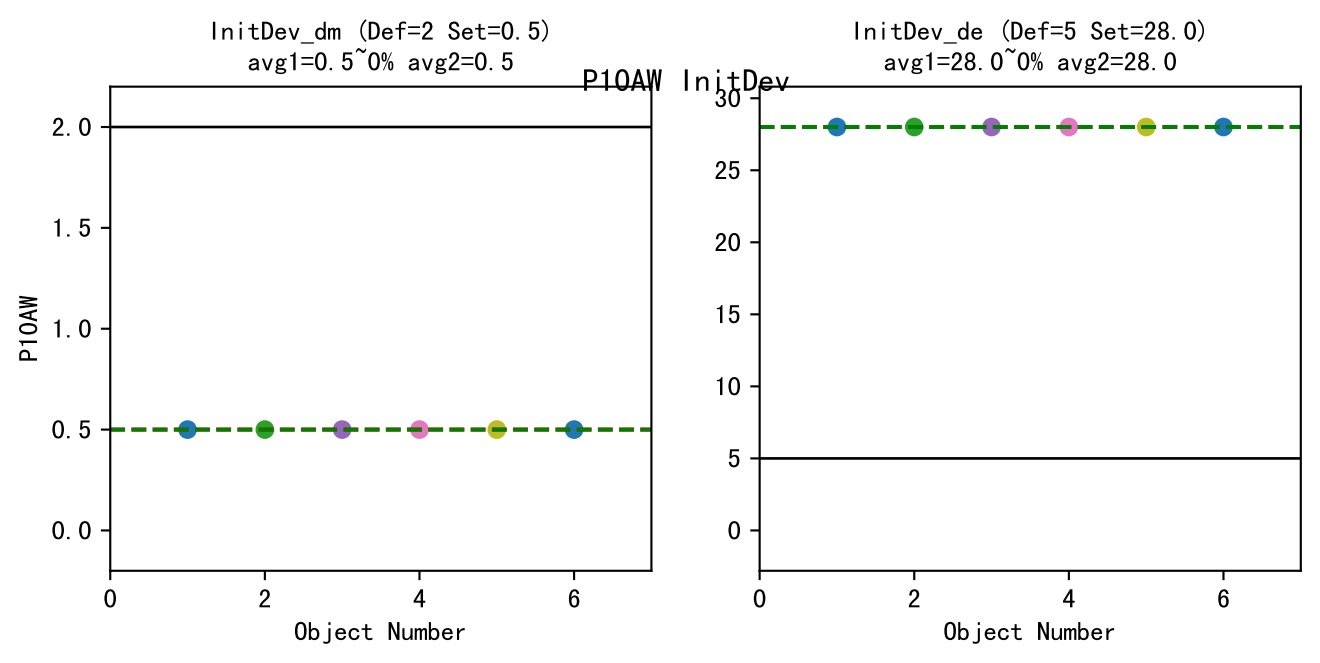

NdV_Q90AbsY (Def=12.72 Set=8.19)
avg1=8.19~11% avg2=na
10
5
0
0
5
10
15
20
25
Object Number

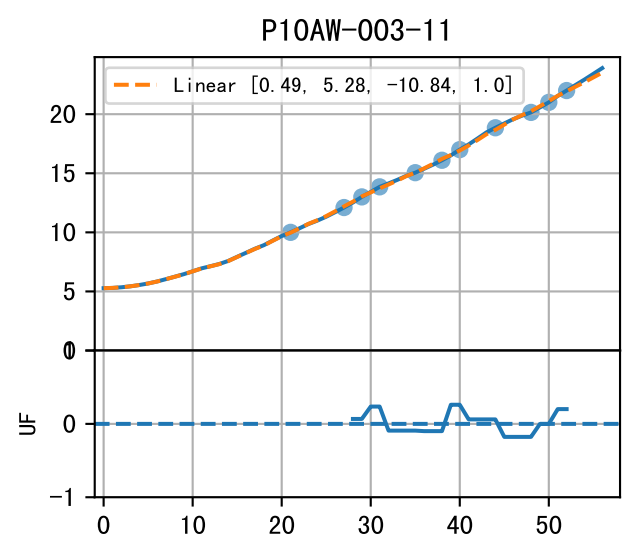

NdV_avgAbsY (Def=na Set=7.57)
avg1=7.57~27% avg2=na
10.0
7.5
5.0
2.5
0.0
0
5
10
15
20
25
Object Number

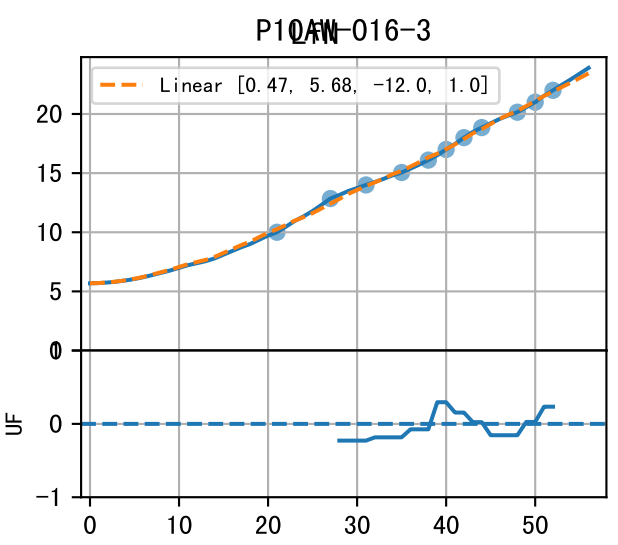

P10AW-003-11 (fit failed)
BDL [0.65, 0.83, 27.77, 1.0]
P10AW-016-3 (fit failed)
BDL [0.63, 4.93, 14.45, 1.0]
P10AW-029-30 (fit failed)
BDL [0.57, 0.1, 26.65, 1.0]
P10AW-041-24 (fit failed)
BDL [0.65, 0.1, 24.85, 0.99]
P10AW-054-10 (fit failed)
BDL [0.65, 0.1, 34.77, 1.0]
UF

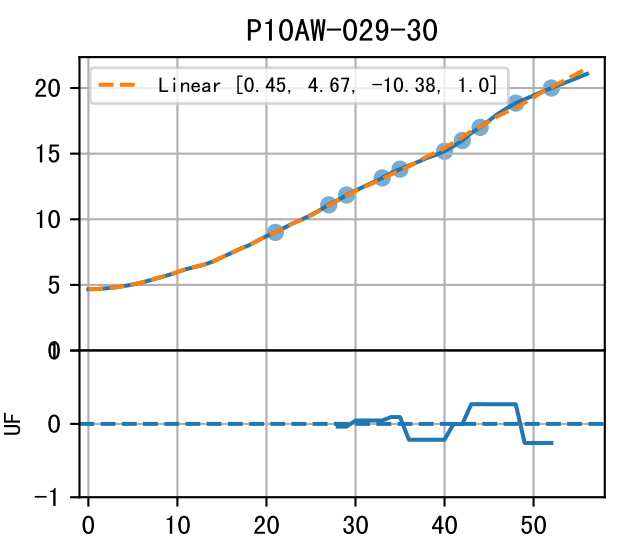

P10AWavg (fit failed)
NdN
BDL [0.63, 0.1, 28.0, 1.0]
25
20
15
10
5
0
0
UF
0
−1
0
10
20
30
40
50

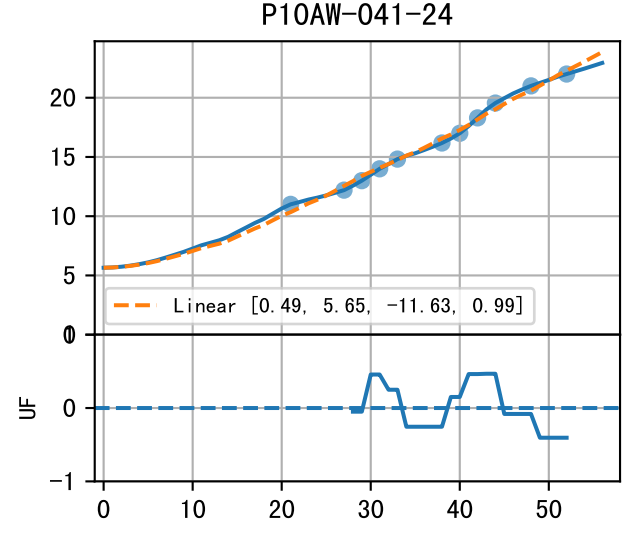

a (Def=0.56 Set=0.63)
avg1=0.63(fail) avg2=0.63
P10AW
Object Number
dm (Def=2 Set=0.1)
avg1=1.21(fail) avg2=0.1
P10AW NdN
Object Number
de (Def=5 Set=28.0)
avg1=25.7(fail) avg2=28.0
Object Number

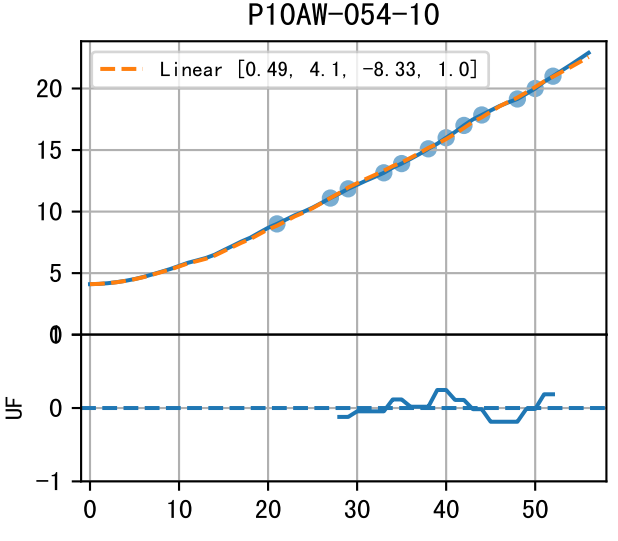

P10AW InitDev
InitDev_dm (Def=2 Set=0.5)
avg1=0.5~0% avg2=0.5
InitDev_de (Def=5 Set=28.0)
avg1=28.0~0% avg2=28.0
P10AW
Object Number
Object Number
0.0
0.5
1.0
1.5
2.0
0
5
10
15
20
25
30
0
2
4
6

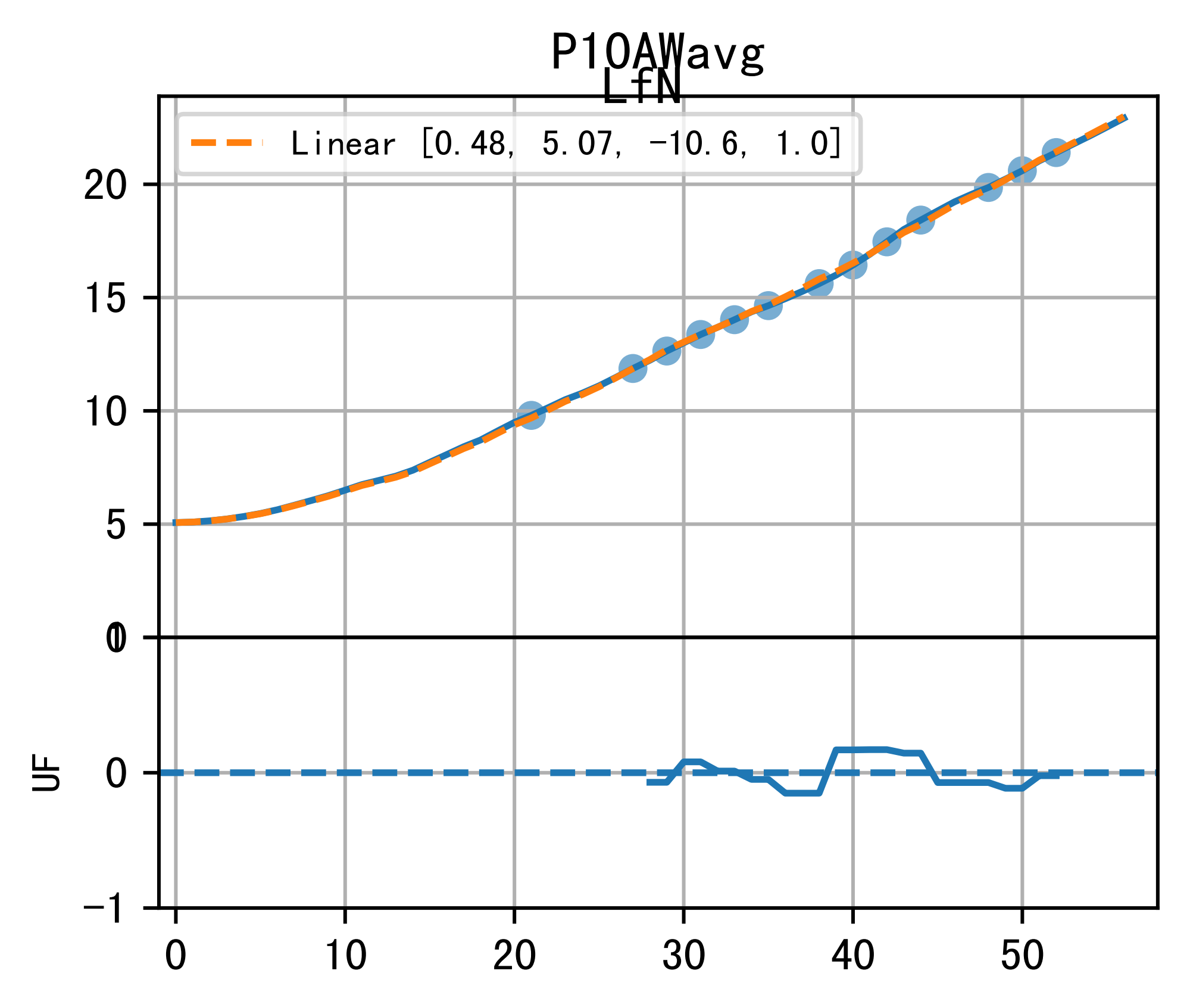

P10AW-003-11
Linear [0.49, 5.28, -10.84, 1.0]
UF

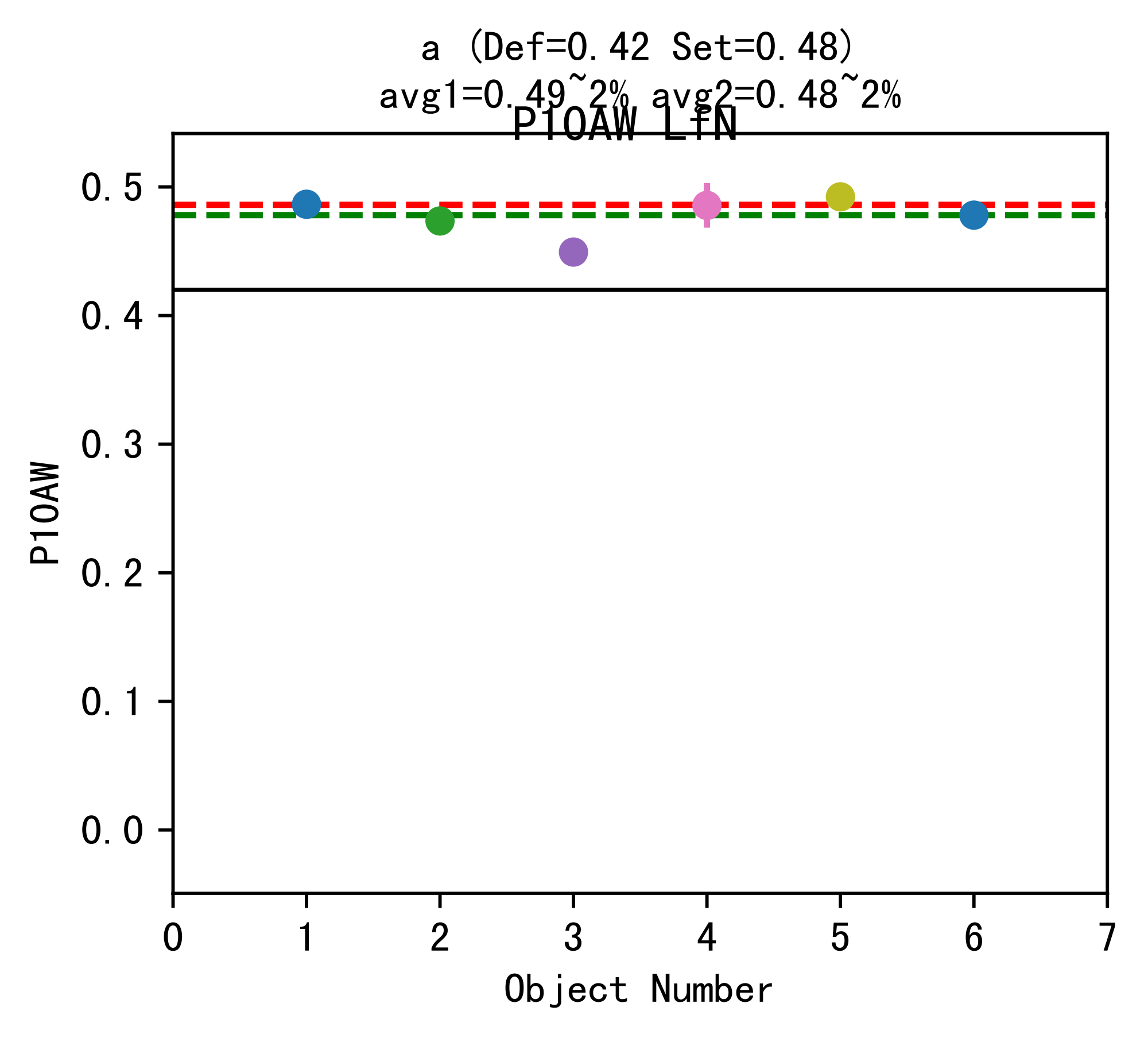

P10AW-016-3
Linear [0.47, 5.68, -12.0, 1.0]
UF

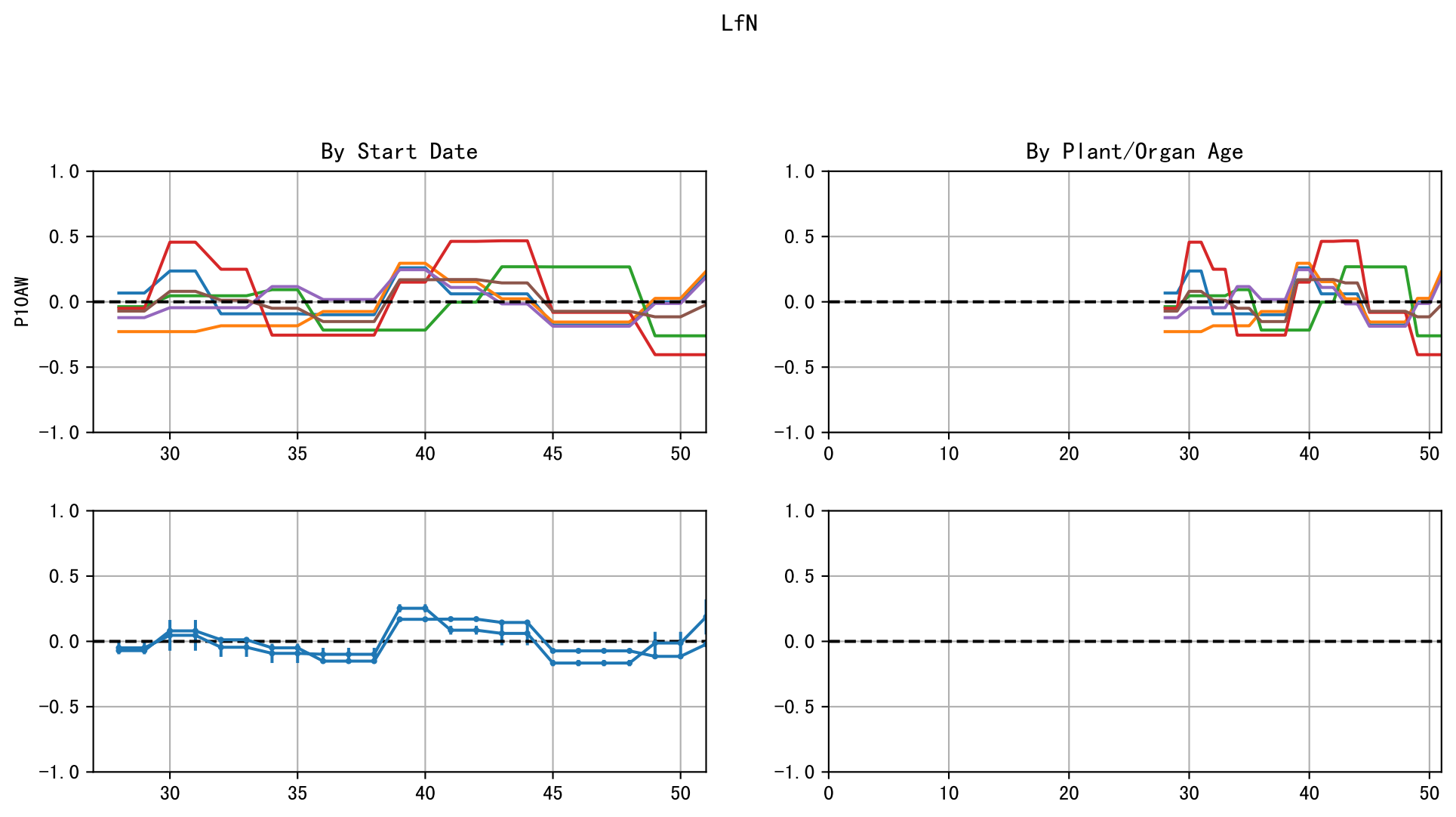

P10AW-029-30
Linear [0.45, 4.67, -10.38, 1.0]
UF

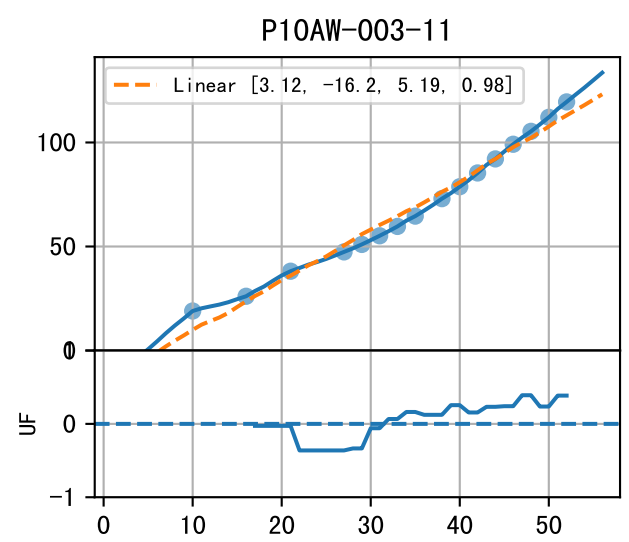

P10AW-041-24
Linear [0.49, 5.65, -11.63, 0.99]
UF

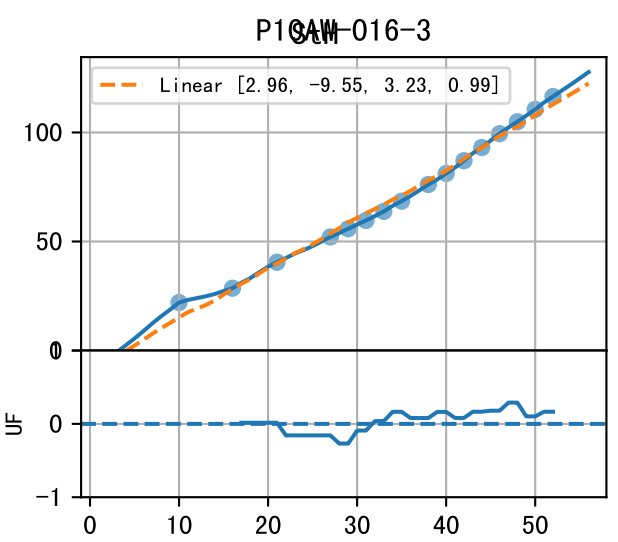

P10AW-054-10
Linear [0.49, 4.1, -8.33, 1.0]
UF

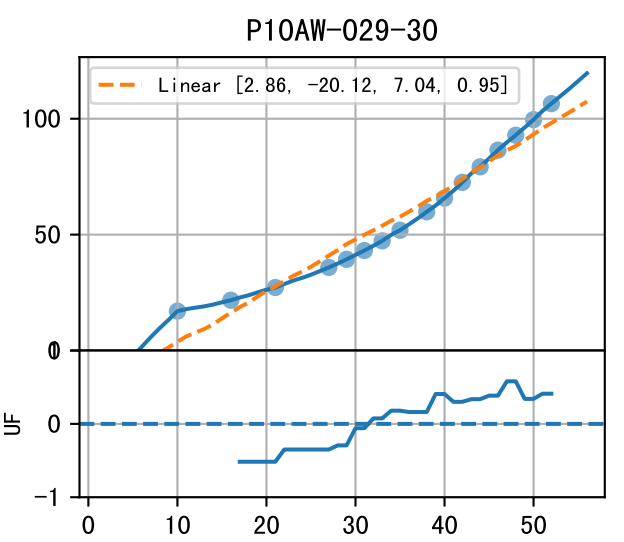

P10AWavg
LfN
Linear [0.48, 5.07, -10.6, 1.0]
20
15
10
5
0
0
UF
0
-1
0
10
20
30
40
50

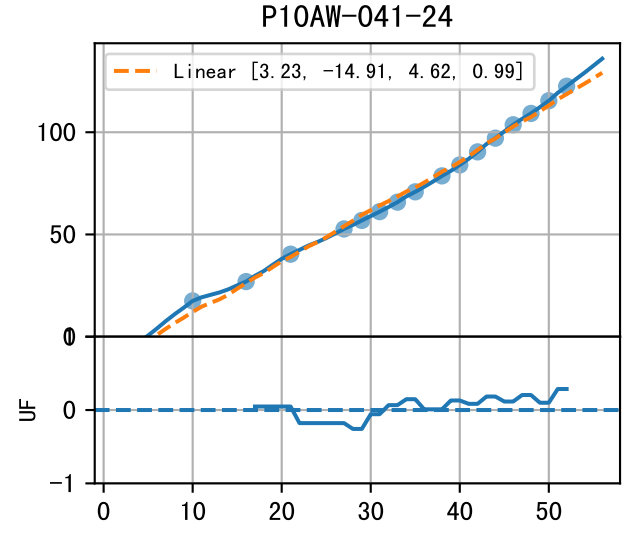

a (Def=0.42 Set=0.48)
avg1=0.49~2% avg2=0.48~2%
P10AW LfN
0.5
0.4
0.3
0.2
0.1
0.0
P10AW
0
1
2
3
4
5
6
7
Object Number

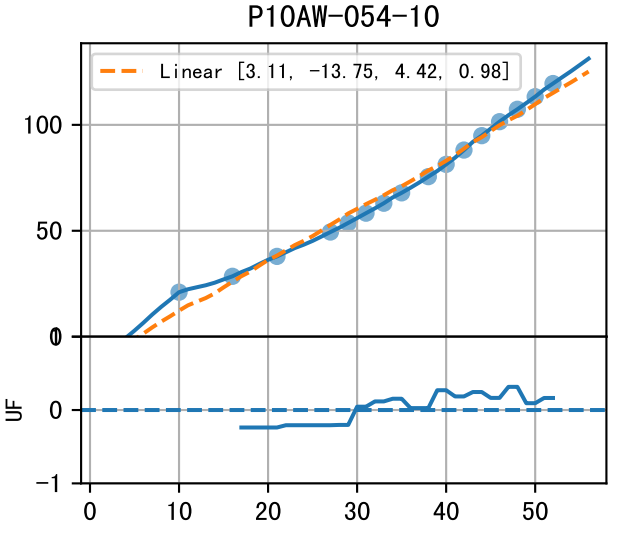

LfN
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
−0.5
−1.0
30
35
40
45
50
0
10
20
30
40
50

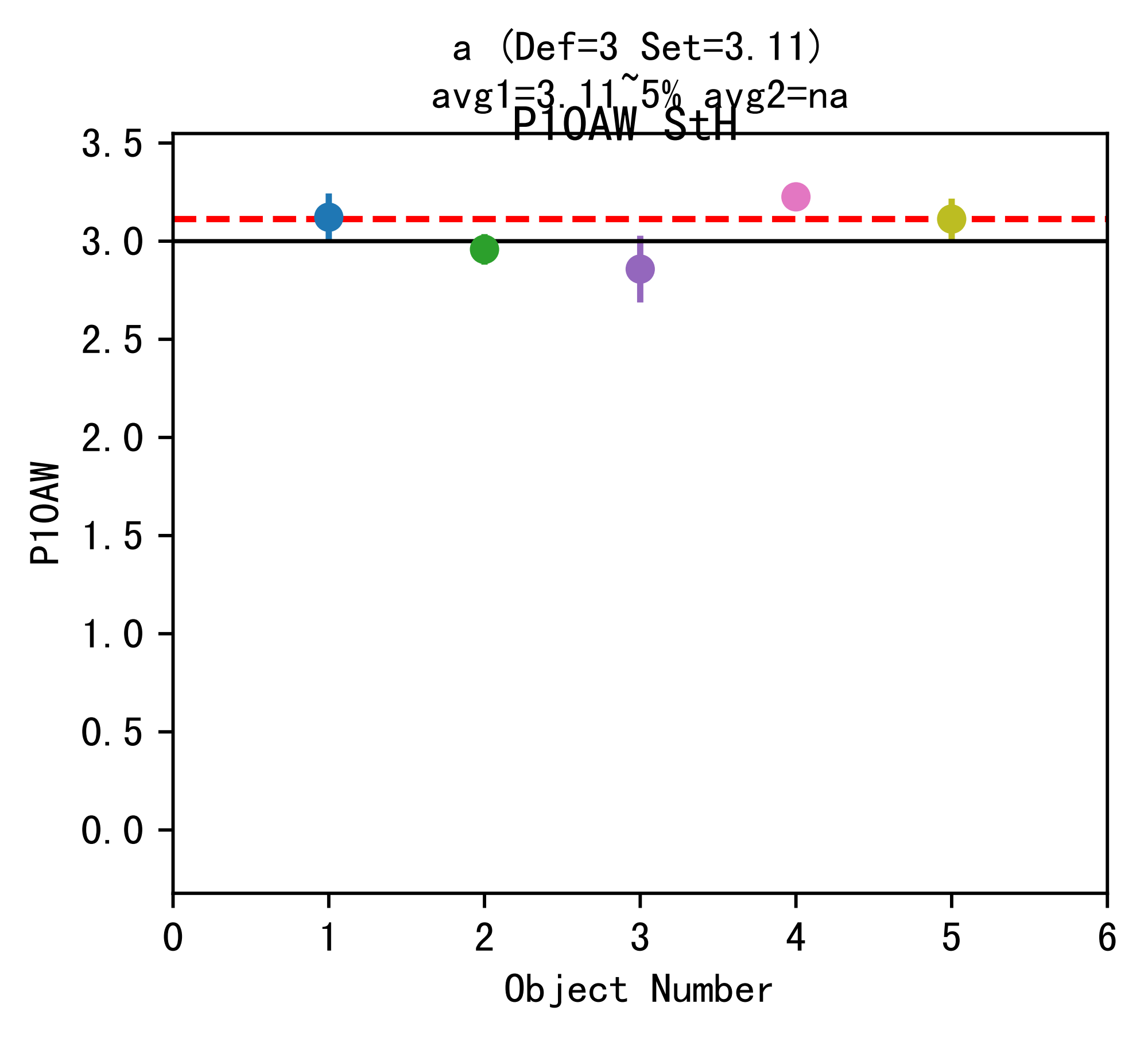

P10AW-003-11
Linear [3.12, -16.2, 5.19, 0.98]
UF

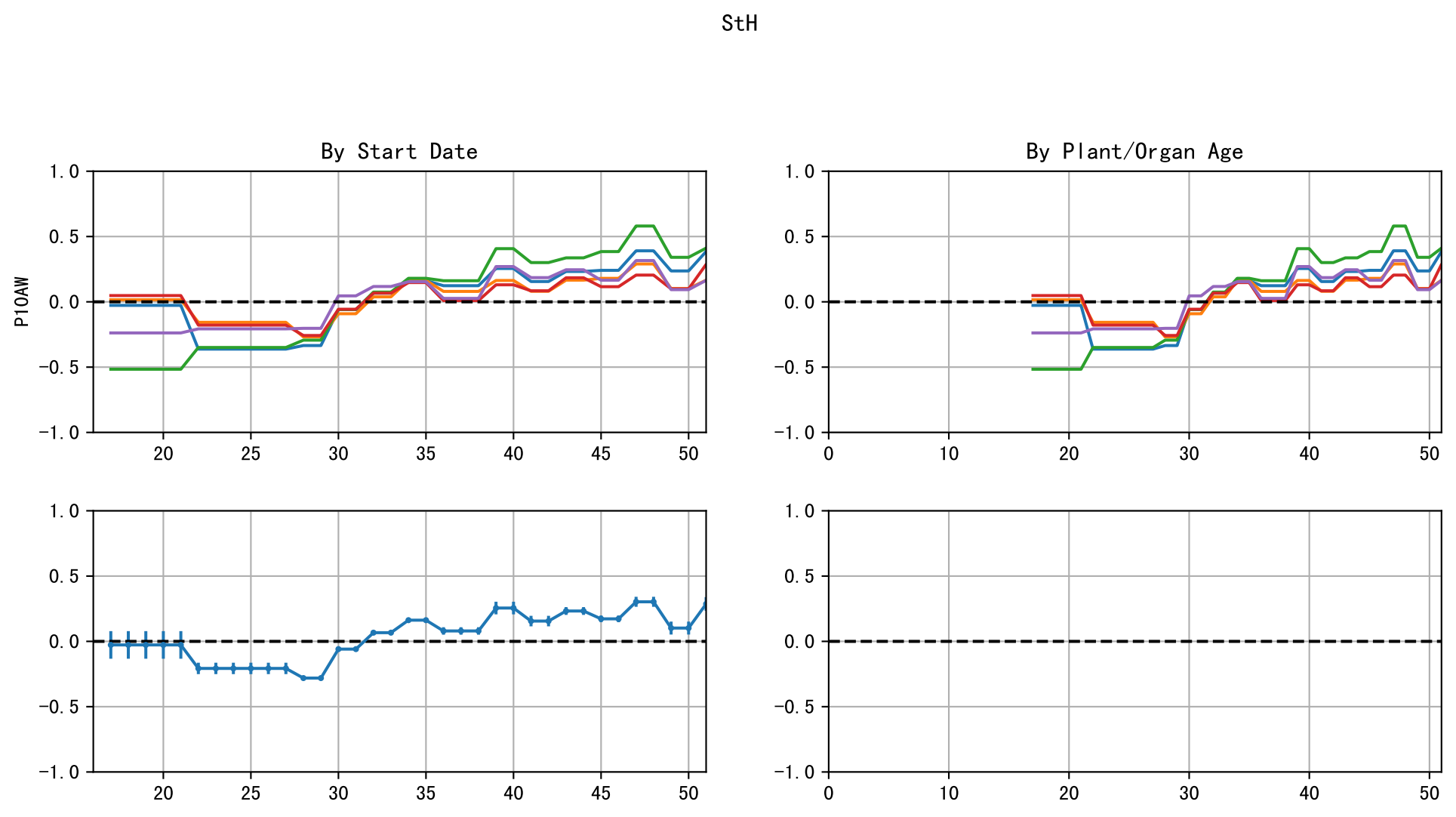

P10AW-016-3
Linear [2.96, -9.55, 3.23, 0.99]
UF

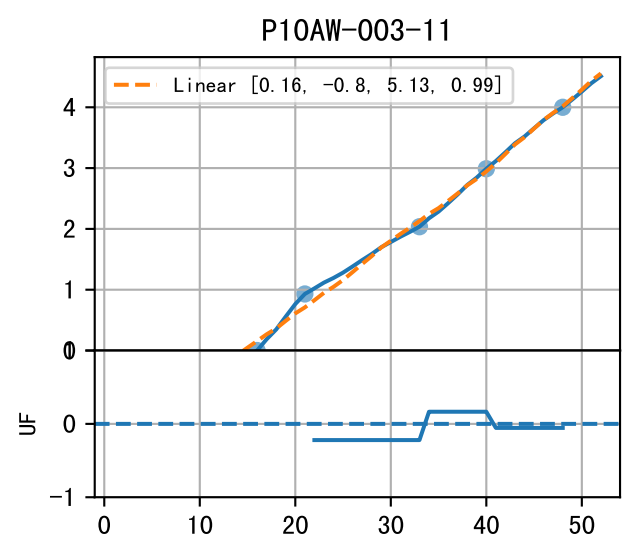

P10AW-029-30
Linear [2.86, -20.12, 7.04, 0.95]
UF

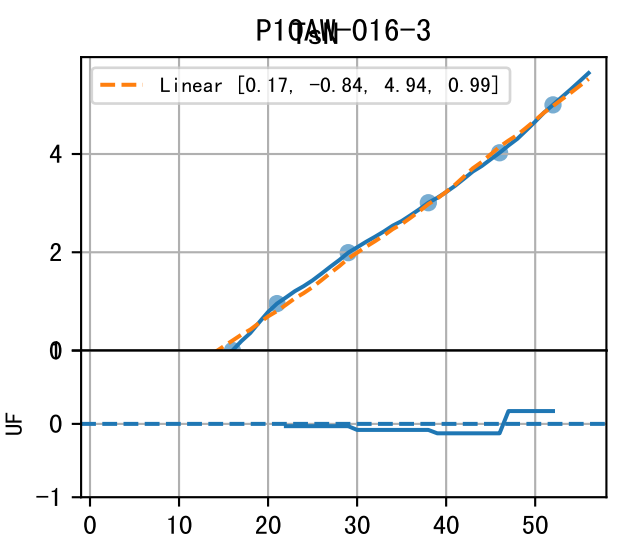

P10AW-041-24
Linear [3.23, -14.91, 4.62, 0.99]
UF

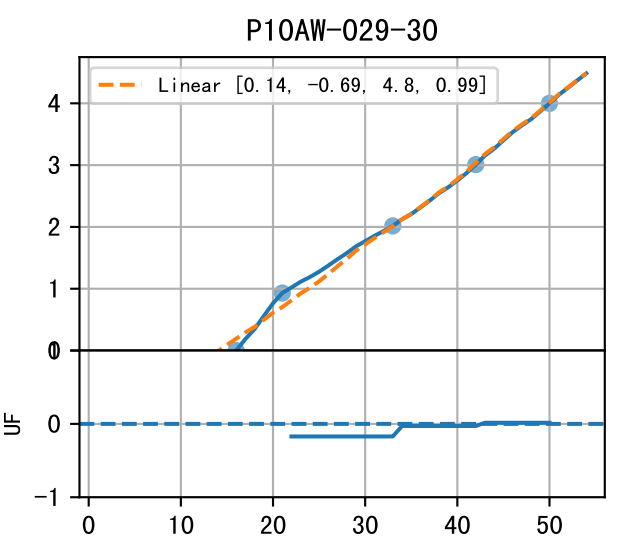

P10AW-054-10
Linear [3.11, -13.75, 4.42, 0.98]
UF

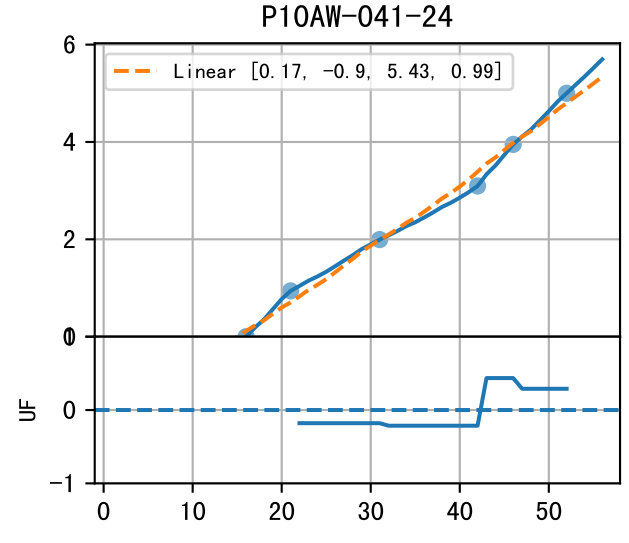

a (Def=3 Set=3.11)
avg1=3.11~5% avg2=na
P10AW StH
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
P10AW
0
1
2
3
4
5
6
Object Number

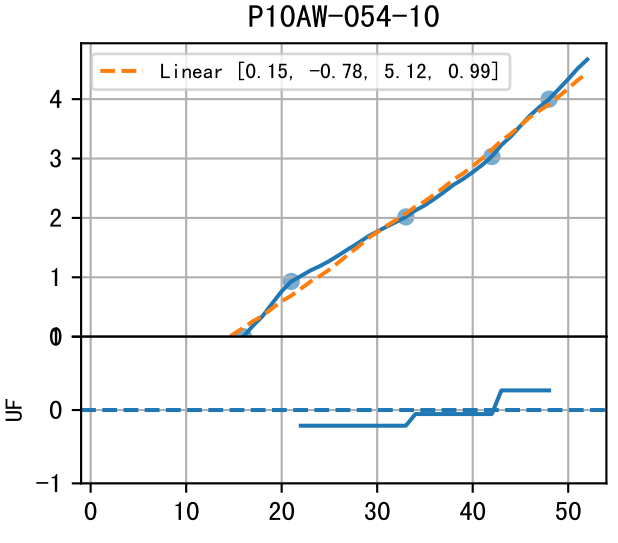

StH
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
−0.5
−1.0
20
25
30
35
40
45
50
0
10

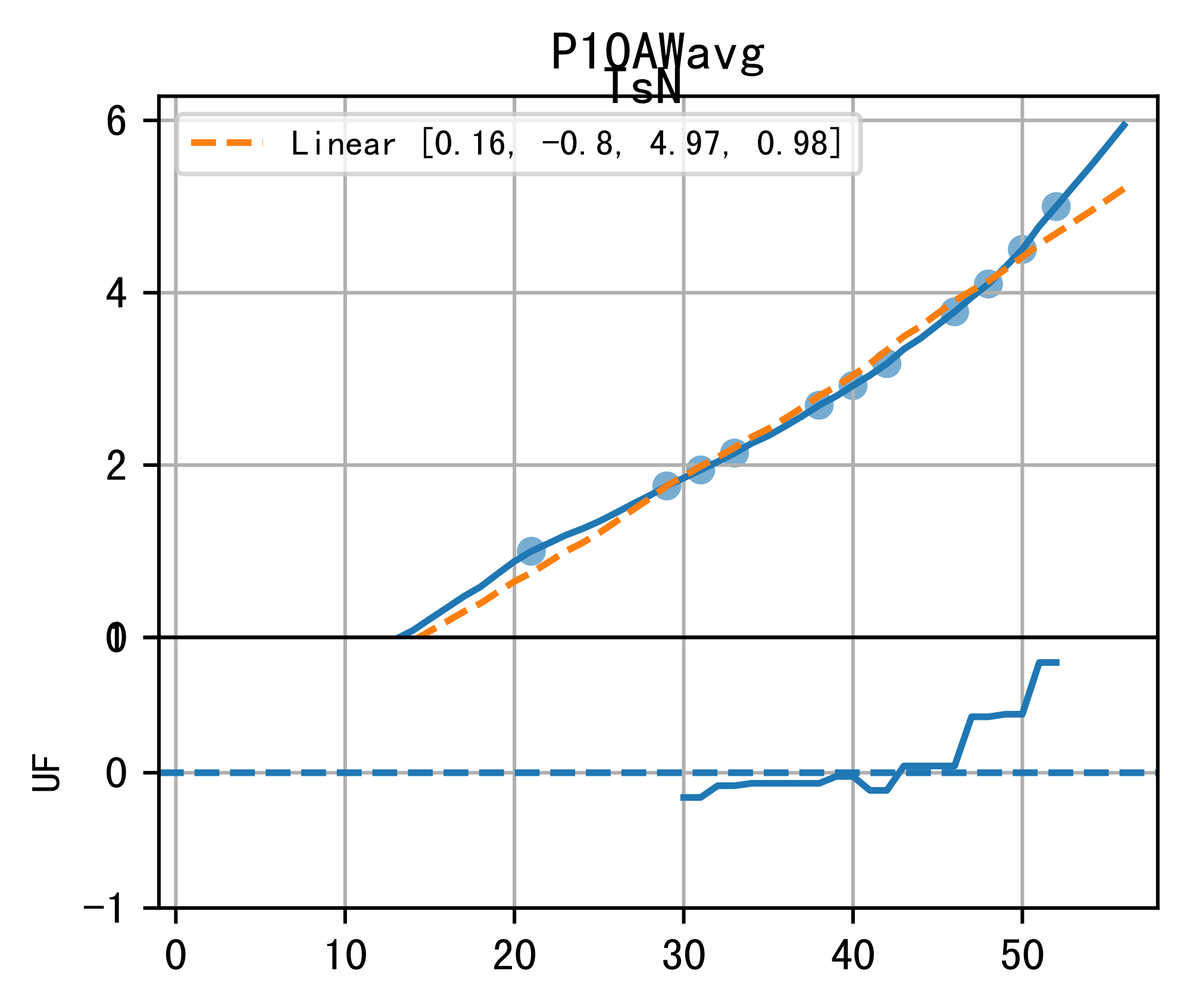

P10AW-003-11
Linear [0.16, -0.8, 5.13, 0.99]
UF
TSN

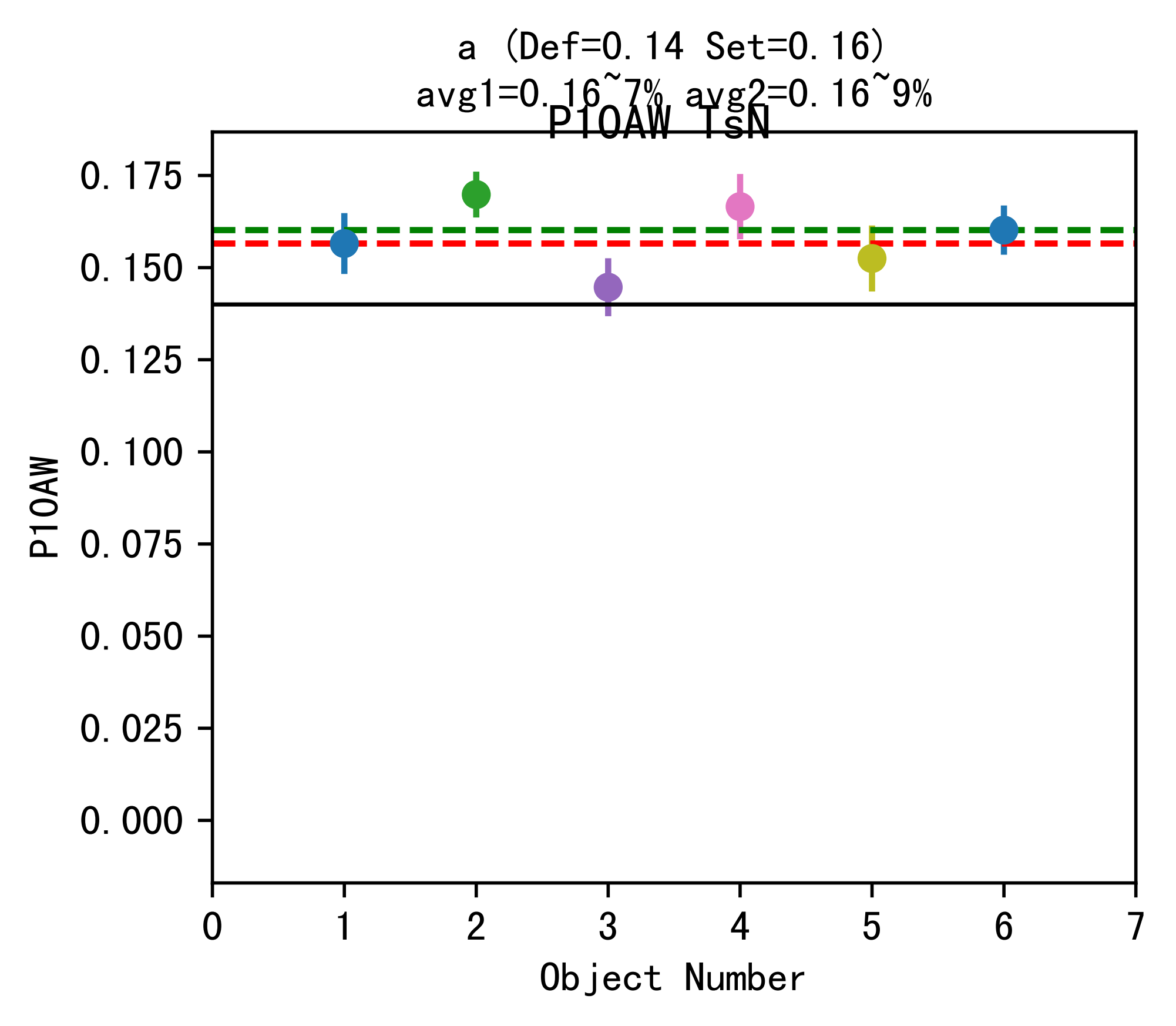

P10AW-016-3
Linear [0.17, -0.84, 4.94, 0.99]
UF
TSN

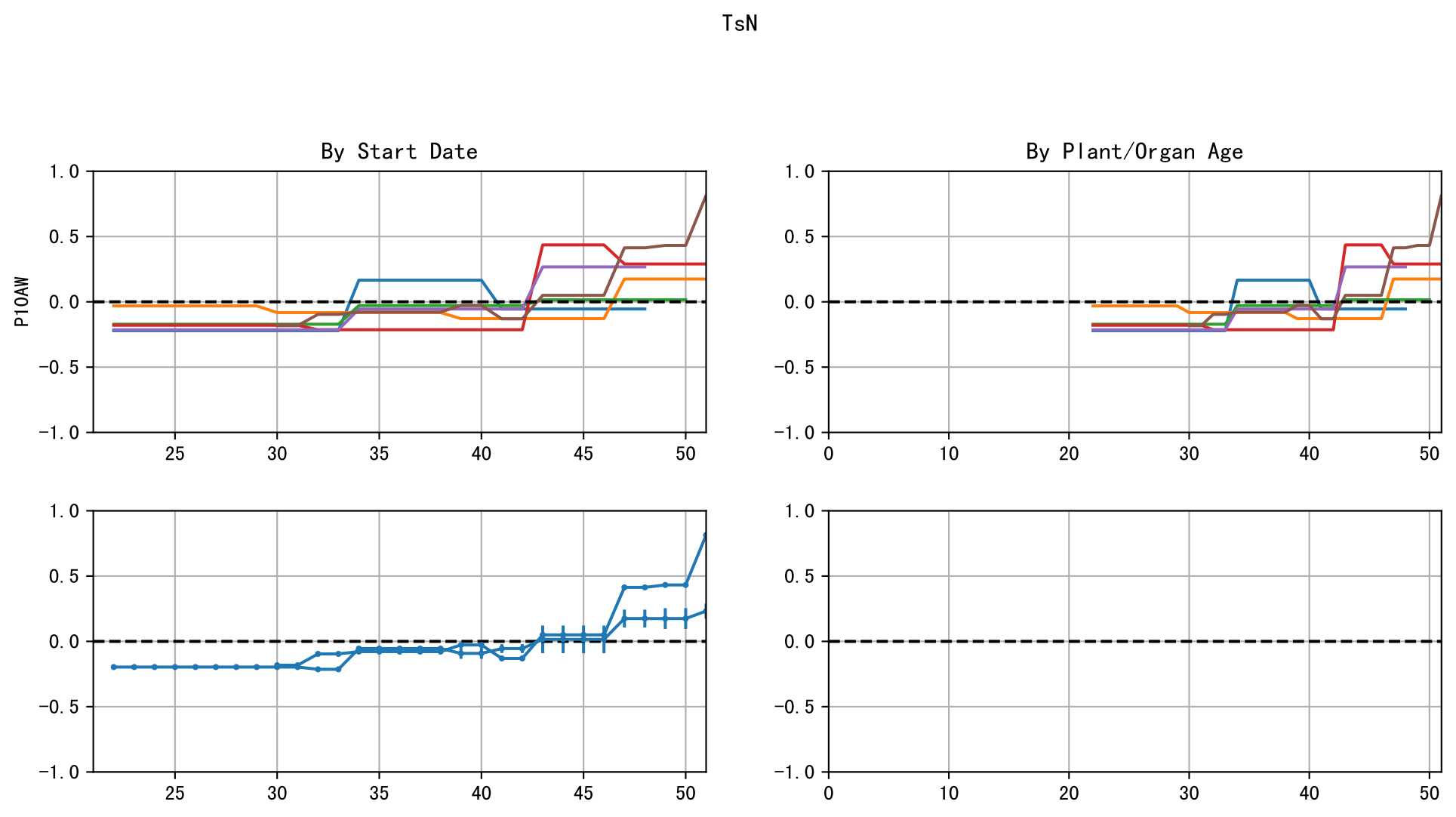

P10AW-029-30
Linear [0.14, -0.69, 4.8, 0.99]
UF
TSN

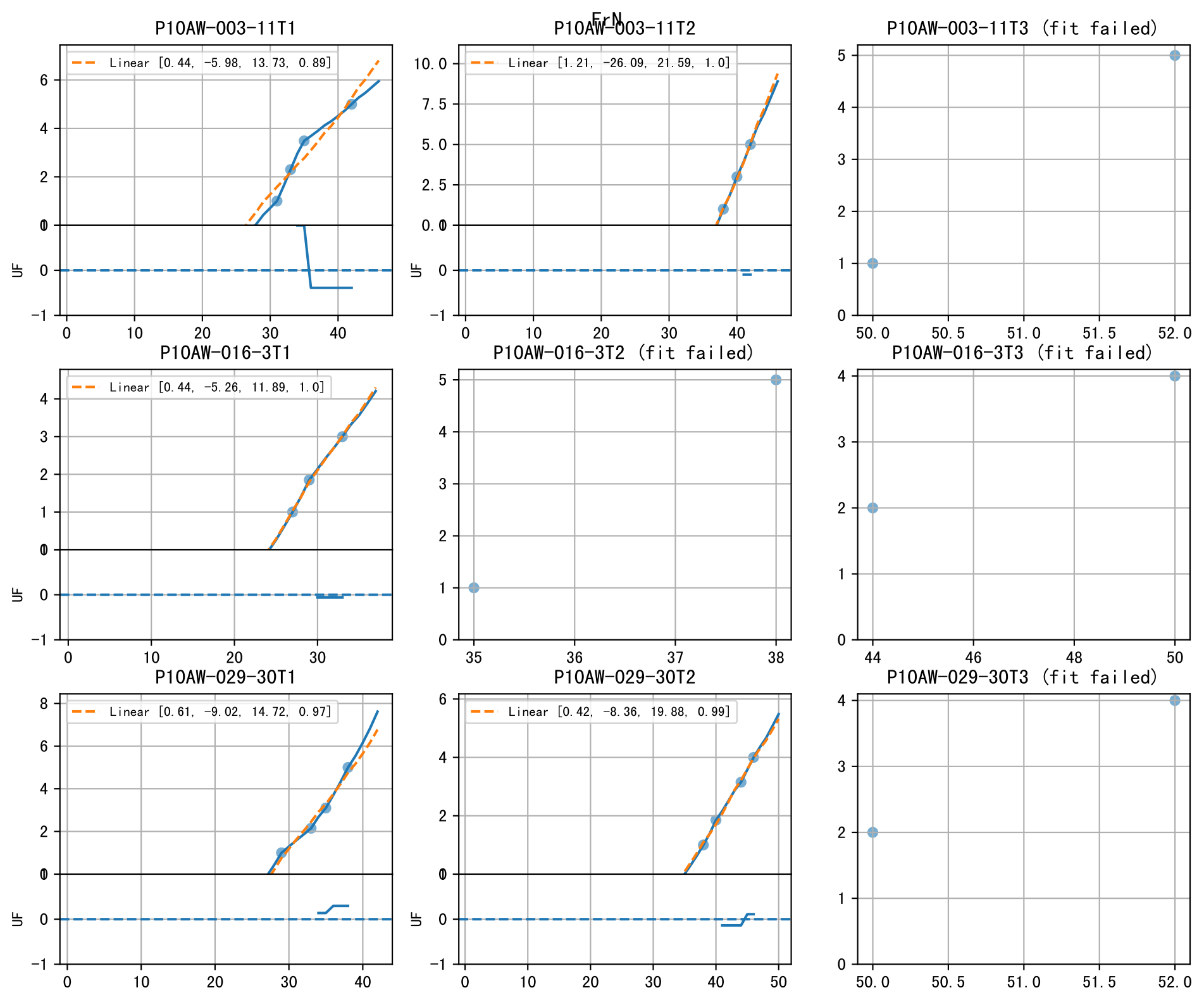

P10AW-041-24
Linear [0.17, -0.9, 5.43, 0.99]
UF
TSN

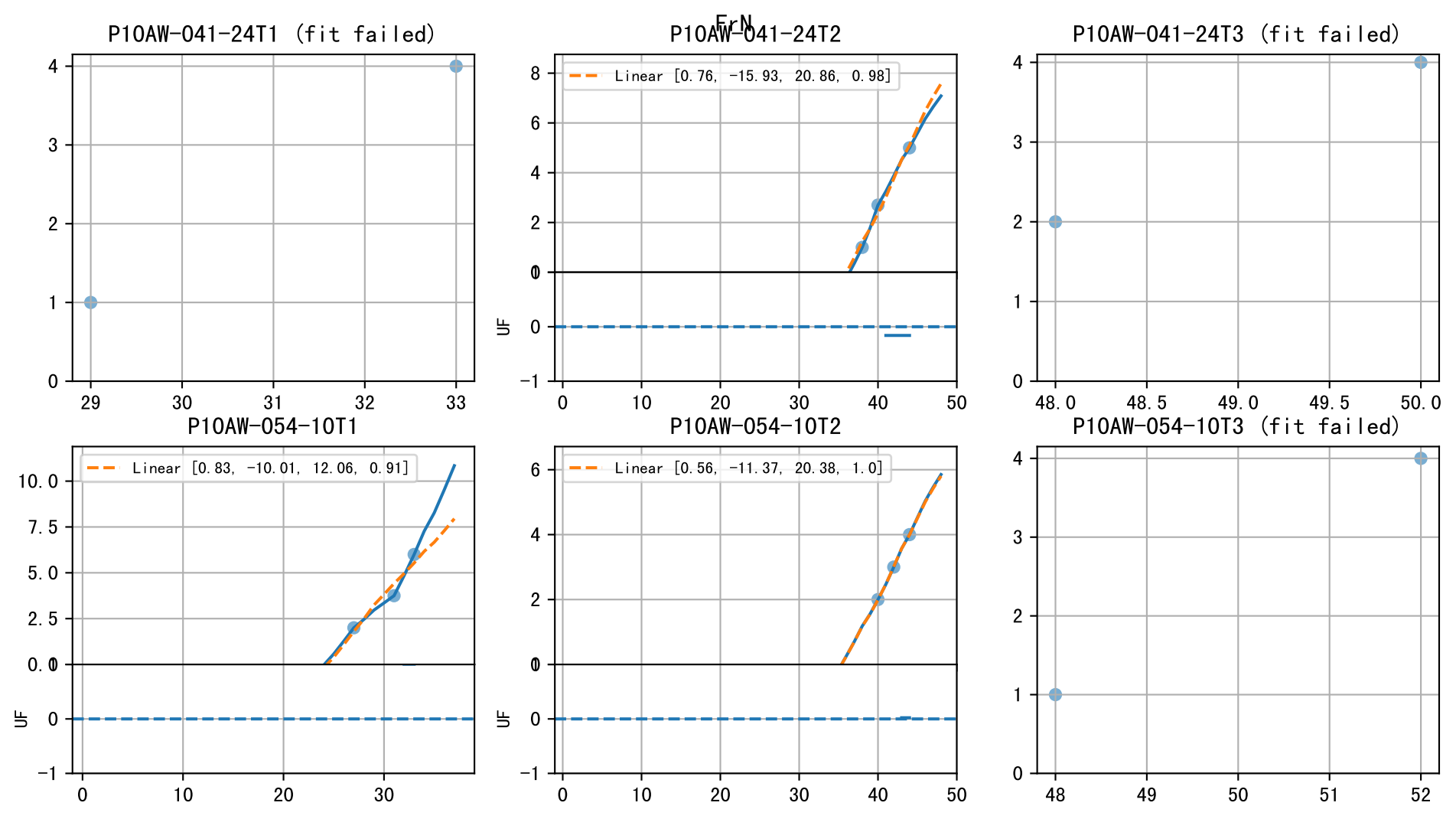

P10AW-054-10
Linear [0.15, -0.78, 5.12, 0.99]
UF
TSN

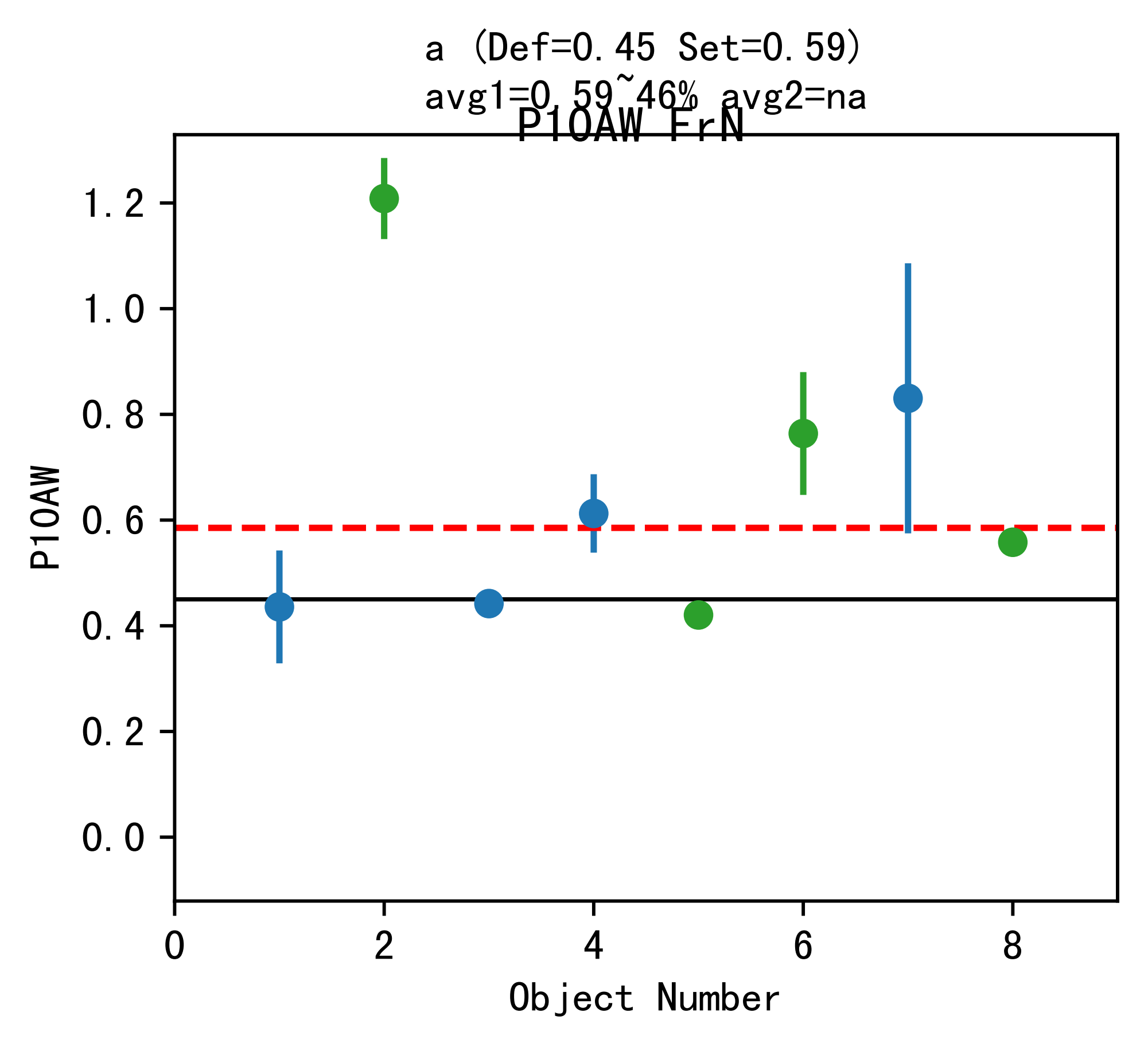

P1QAWavg
TsN
Linear [0.16, -0.8, 4.97, 0.98]
6
4
2
0
0
-1
UF
0
10
20
30
40
50

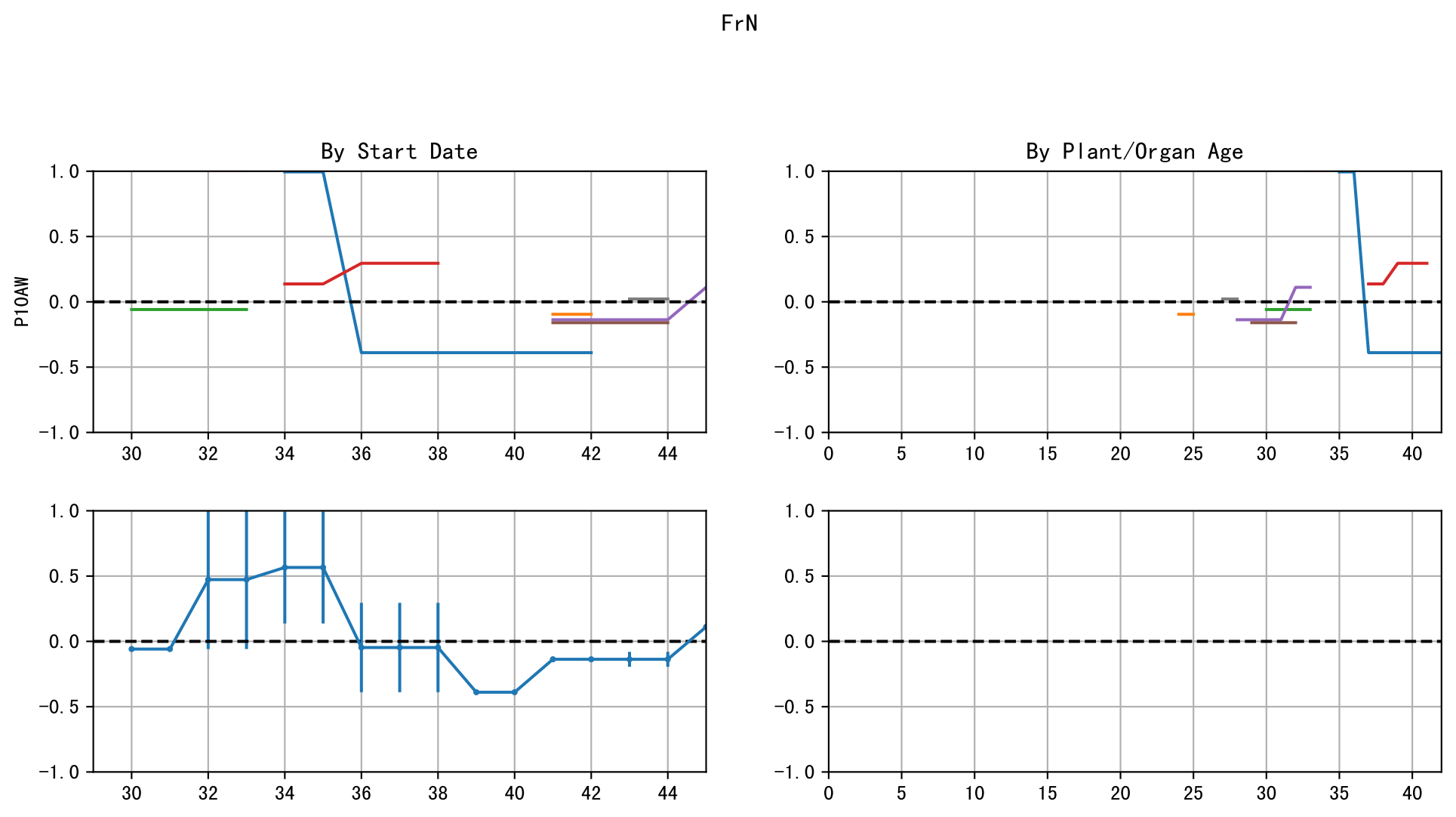

a (Def=0.14 Set=0.16)
avg1=0.16~7% avg2=0.16~9%
P10AW TsN
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
P10AW
0
1
2
3
4
5
6
7
Object Number

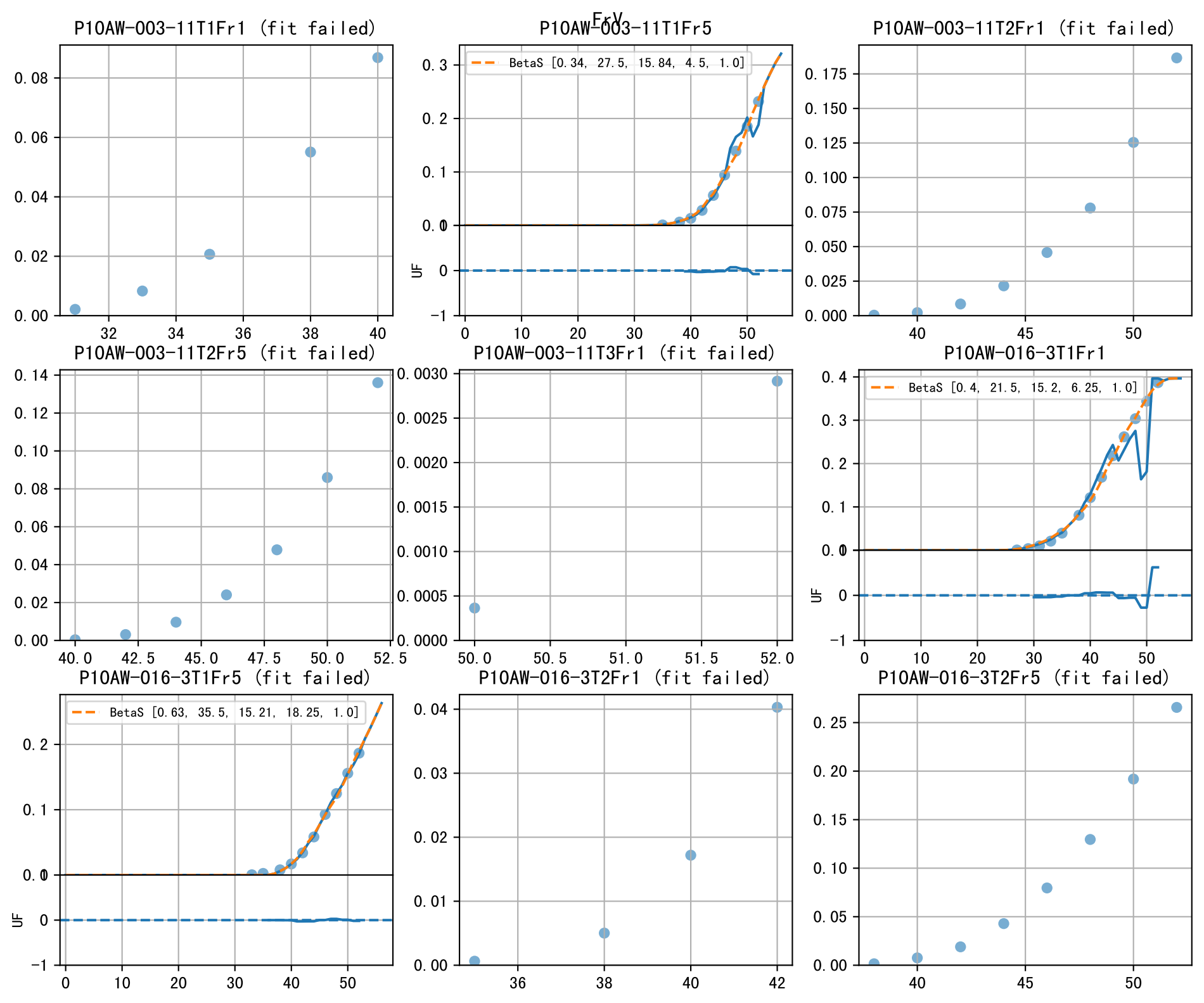

TsN
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
−0.5
−1.0
25
30
35
40
45
50
0
10
20
30
40
50

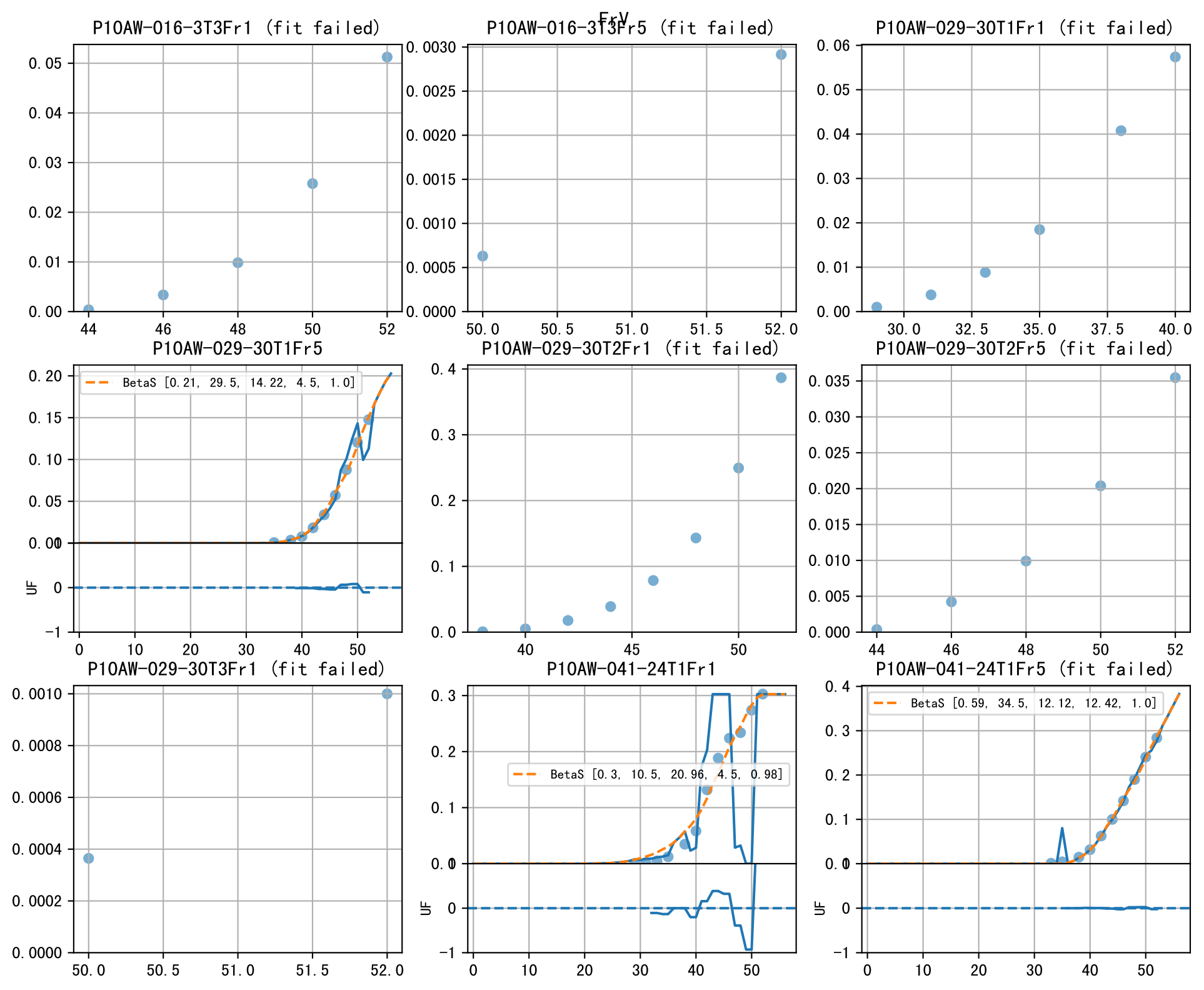

Fr N
P10AW-003-11T1
Linear [0.44, -5.98, 13.73, 0.89]
P10AW-003-11T2
Linear [1.21, -26.09, 21.59, 1.0]
P10AW-003-11T3 (fit failed)
P10AW-016-3T1
Linear [0.44, -5.26, 11.89, 1.0]
P10AW-016-3T2 (fit failed)
P10AW-016-3T3 (fit failed)
P10AW-029-30T1
Linear [0.61, -9.02, 14.72, 0.97]
P10AW-029-30T2
Linear [0.42, -8.36, 19.88, 0.99]
P10AW-029-30T3 (fit failed)
UF

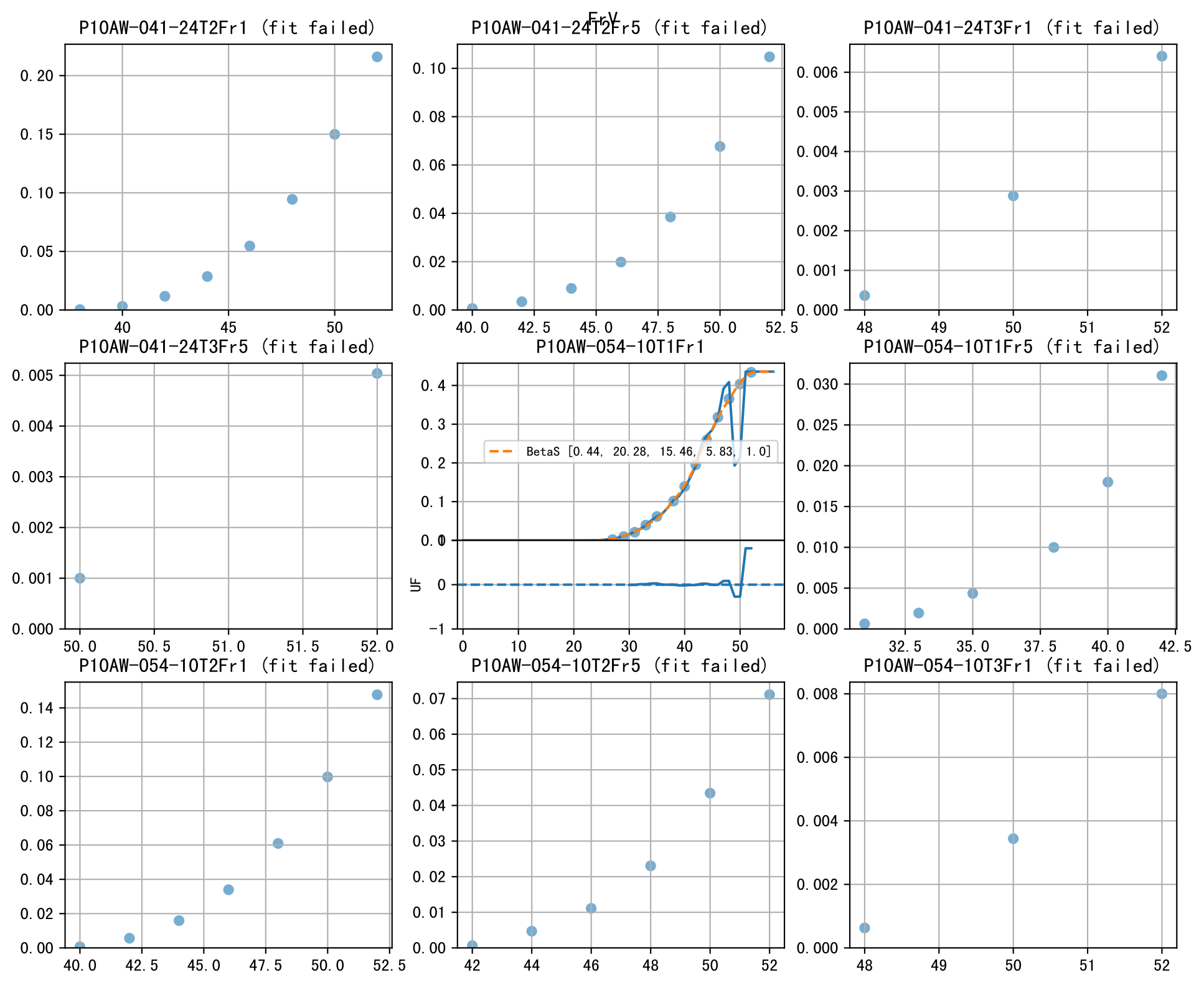

Fr-N
P10AW-041-24T1 (fit failed)
P10AW-041-24T2
Linear [0.76, -15.93, 20.86, 0.98]
P10AW-041-24T3 (fit failed)
P10AW-054-10T1
Linear [0.83, -10.01, 12.06, 0.91]
P10AW-054-10T2
Linear [0.56, -11.37, 20.38, 1.0]
P10AW-054-10T3 (fit failed)
UF

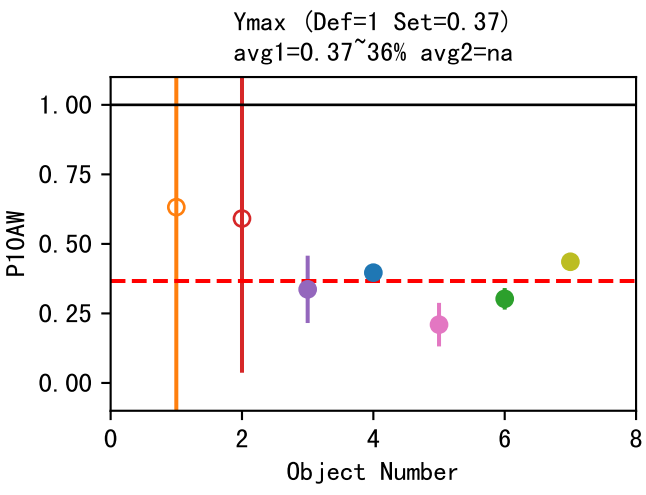

a (Def=0.45 Set=0.59)
avg1=0.59~46% avg2=na
P10AW FrN
P10AW
Object Number
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8

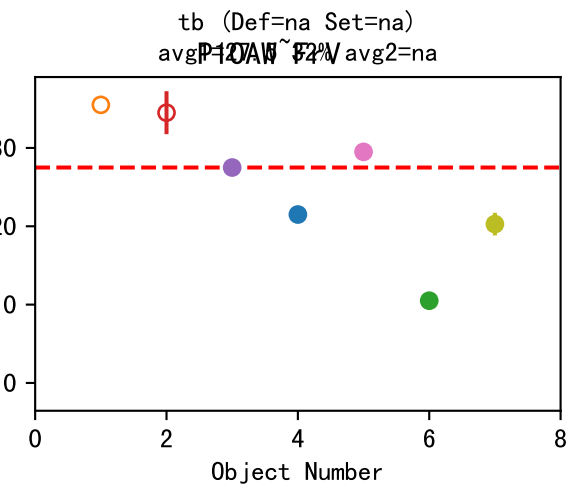

FrN
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
−0.5
−1.0
30
32
34
36
38
40
42
44
0
5
10
15
20
25
30
35
40

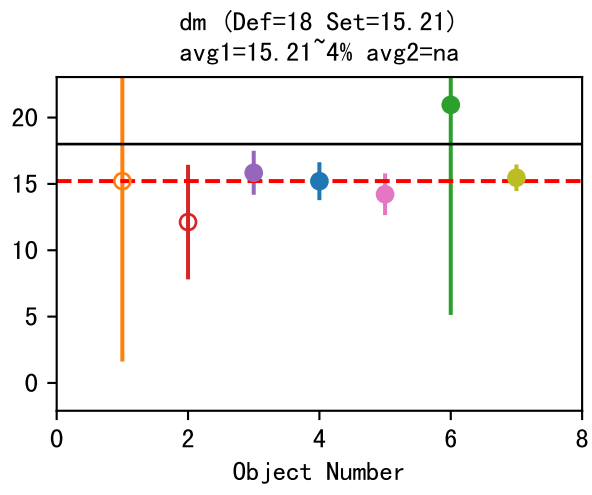

FrV
P10AW-003-11T1Fr1 (fit failed)
P10AW-003-11T1Fr5
BetaS [0.34, 27.5, 15.84, 4.5, 1.0]
UF
P10AW-003-11T2Fr1 (fit failed)
P10AW-003-11T2Fr5 (fit failed)
P10AW-003-11T3Fr1 (fit failed)
P10AW-016-3T1Fr1
BetaS [0.4, 21.5, 15.2, 6.25, 1.0]
P10AW-016-3T1Fr5 (fit failed)
BetaS [0.63, 35.5, 15.21, 18.25, 1.0]
P10AW-016-3T2Fr1 (fit failed)
P10AW-016-3T2Fr5 (fit failed)

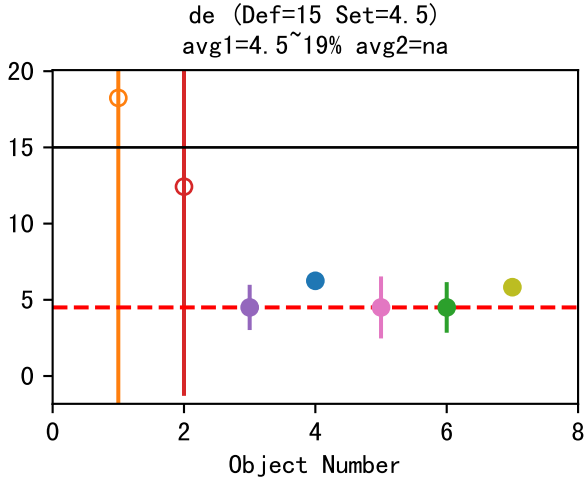

FrV
P10AW-016-3T3Fr1 (fit failed)
P10AW-016-3T3Fr5 (fit failed)
P10AW-029-30T1Fr1 (fit failed)
P10AW-029-30T1Fr5
BetaS [0.21, 29.5, 14.22, 4.5, 1.0]
UF
P10AW-029-30T2Fr1 (fit failed)
P10AW-029-30T2Fr5 (fit failed)
P10AW-029-30T3Fr1 (fit failed)
P10AW-041-24T1Fr1
BetaS [0.3, 10.5, 20.96, 4.5, 0.98]
UF
P10AW-041-24T1Fr5 (fit failed)
BetaS [0.59, 34.5, 12.12, 12.42, 1.0]
UF


FrV
P10AW-041-24T2Fr1 (fit failed)
P10AW-041-24T2Fr5 (fit failed)
P10AW-041-24T3Fr1 (fit failed)
P10AW-041-24T3Fr5 (fit failed)
P10AW-054-10T1Fr1
BetaS [0.44, 20.28, 15.46, 5.83, 1.0]
UF
P10AW-054-10T1Fr5 (fit failed)
P10AW-054-10T2Fr1 (fit failed)
P10AW-054-10T2Fr5 (fit failed)
P10AW-054-10T3Fr1 (fit failed)

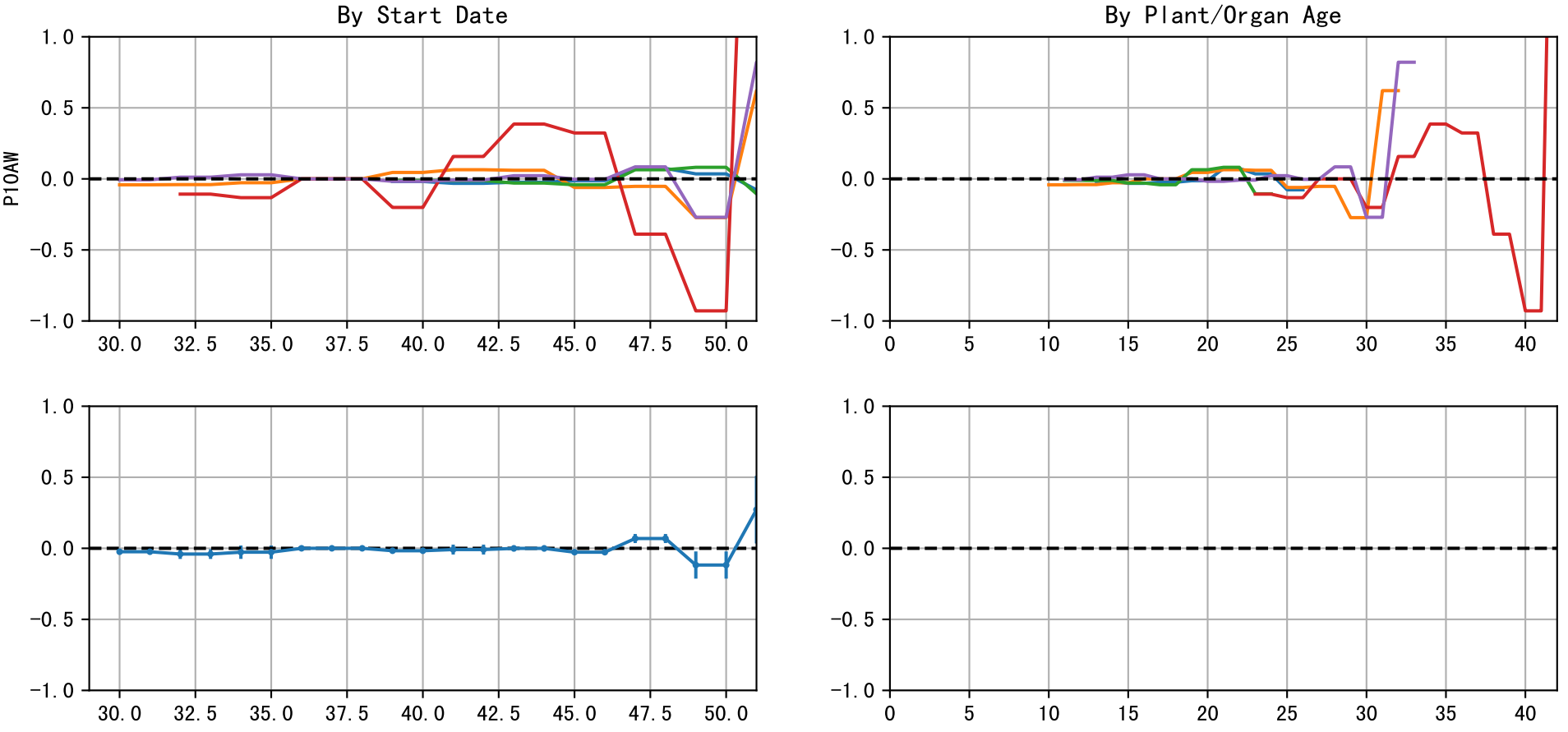

Ymax (Def=1 Set=0.37)
avg1=0.37~36% avg2=na
P10AW
1.00
0.75
0.50
0.25
0.00
0
2
4
6
8
Object Number

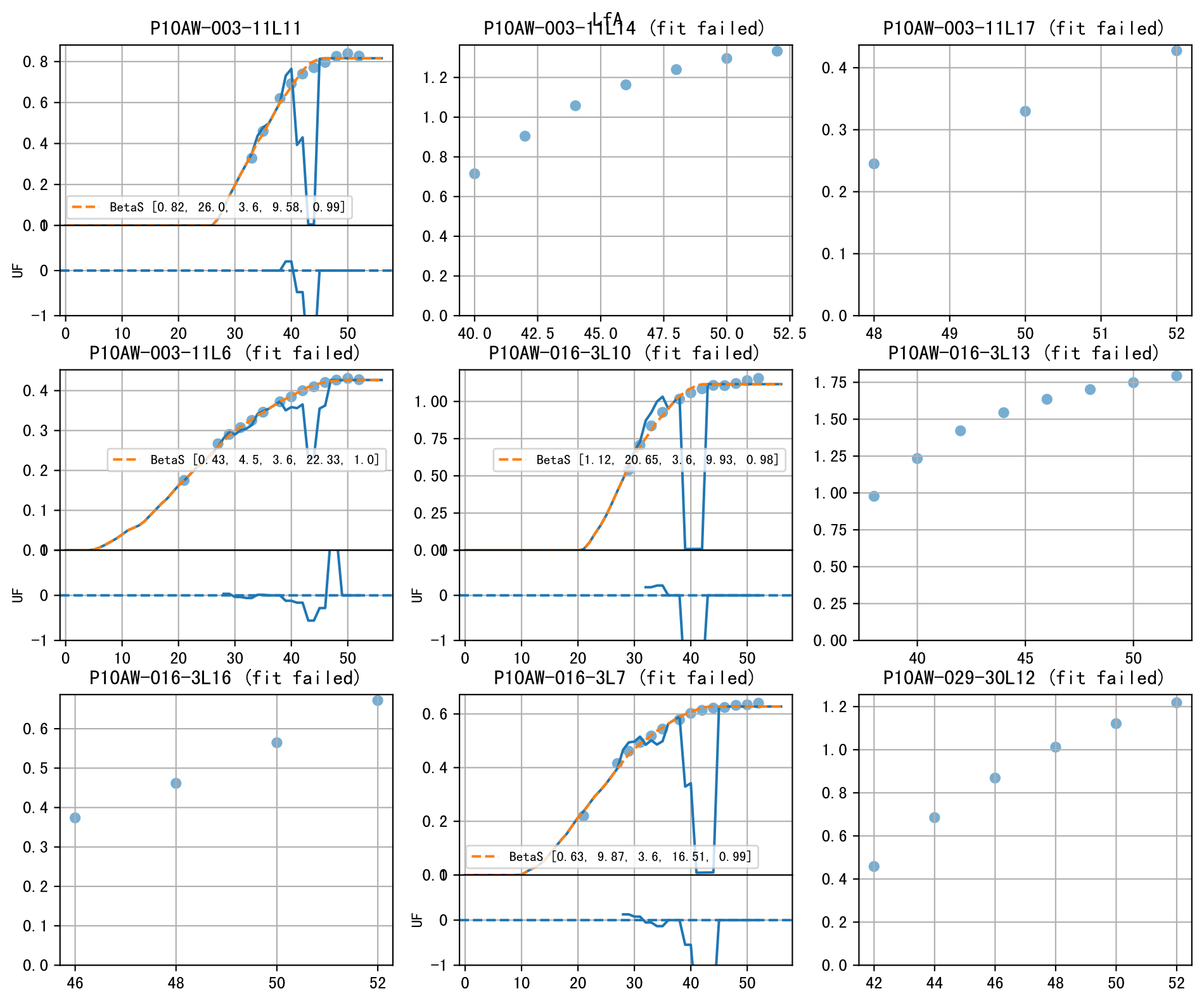

tb (Def=na Set=na)
avg1=27.6~52% avg2=na
30
20
10
0
0
2
4
6
8
Object Number

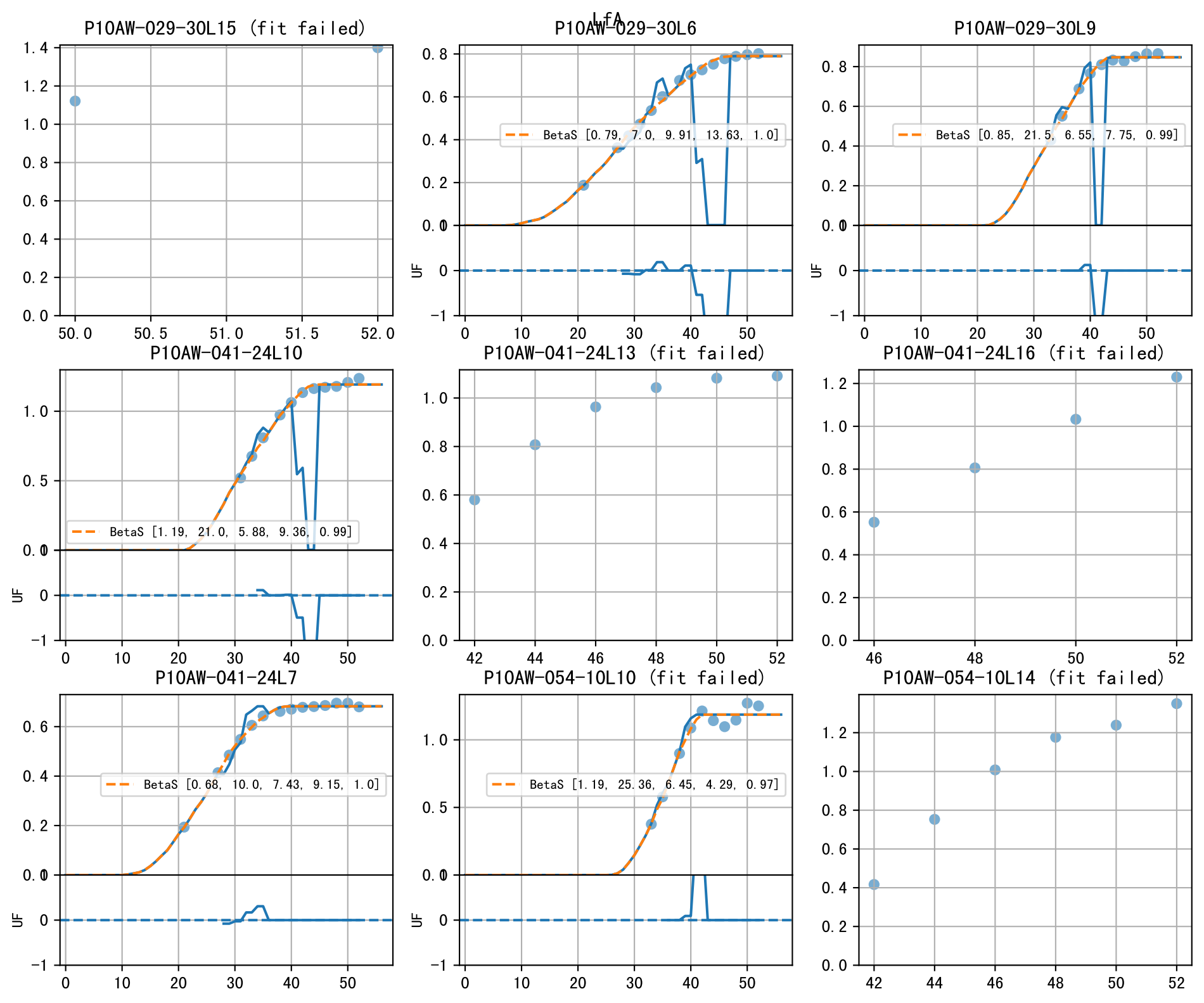

dm (Def=18 Set=15.21)
avg1=15.21~4% avg2=na
20
15
10
5
0
0
2
4
6
8
Object Number

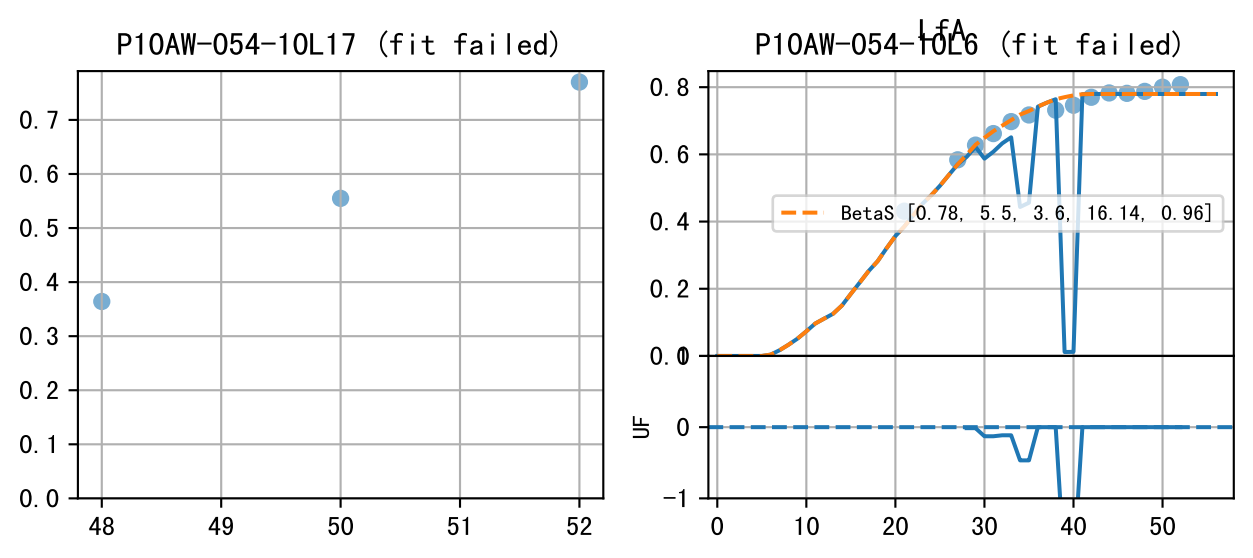

de (Def=15 Set=4.5)
avg1=4.5~19% avg2=na
20
15
10
5
0
0
2
4
6
8
Object Number

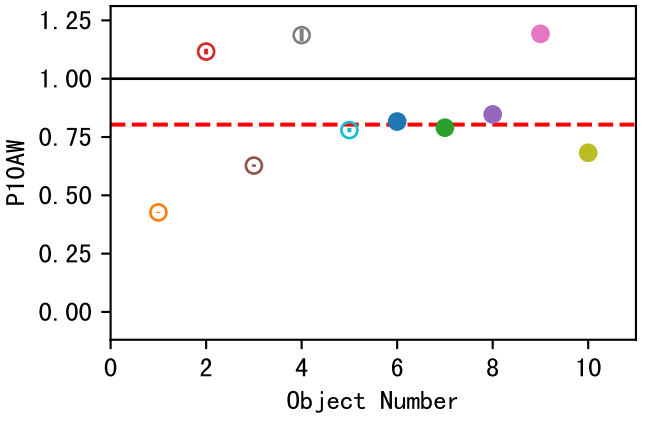
FrV

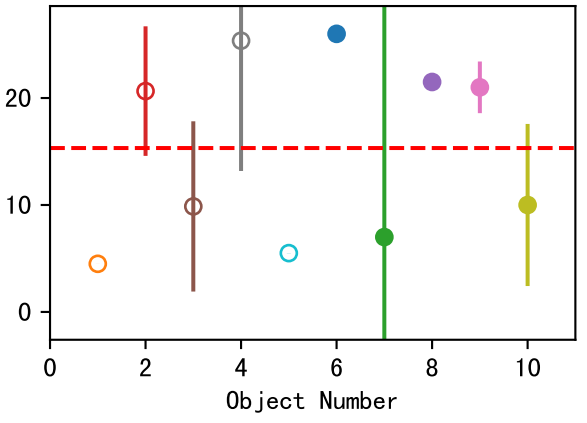

By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
−0.5
−1.0
30.0
32.5
35.0
37.5
40.0
42.5
45.0
47.5
50.0
0
5
10
15
20
25
30
35
40

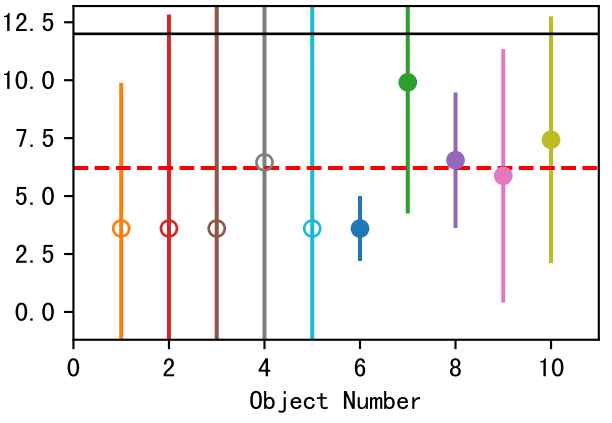

LfA
P10AW-003-11L11
BetaS [0.82, 26.0, 3.6, 9.58, 0.99]
UF
P10AW-003-11L14 (fit failed)
P10AW-003-11L17 (fit failed)
P10AW-003-11L6 (fit failed)
BetaS [0.43, 4.5, 3.6, 22.33, 1.0]
P10AW-016-3L10 (fit failed)
BetaS [1.12, 20.65, 3.6, 9.93, 0.98]
P10AW-016-3L13 (fit failed)
P10AW-016-3L16 (fit failed)
P10AW-016-3L7 (fit failed)
BetaS [0.63, 9.87, 3.6, 16.51, 0.99]
P10AW-029-30L12 (fit failed)

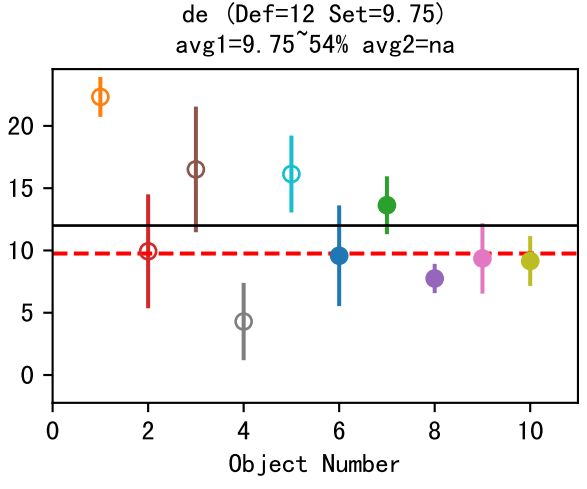

LfA
P10AW-029-30L15 (fit failed)
P10AW-029-30L6
BetaS [0.79, 7.0, 9.91, 13.63, 1.0]
P10AW-029-30L9
BetaS [0.85, 21.5, 6.55, 7.75, 0.99]
P10AW-041-24L10
BetaS [1.19, 21.0, 5.88, 9.36, 0.99]
P10AW-041-24L13 (fit failed)
P10AW-041-24L16 (fit failed)
P10AW-041-24L7
BetaS [0.68, 10.0, 7.43, 9.15, 1.0]
P10AW-054-10L10 (fit failed)
BetaS [1.19, 25.36, 6.45, 4.29, 0.97]
P10AW-054-10L14 (fit failed)
UF

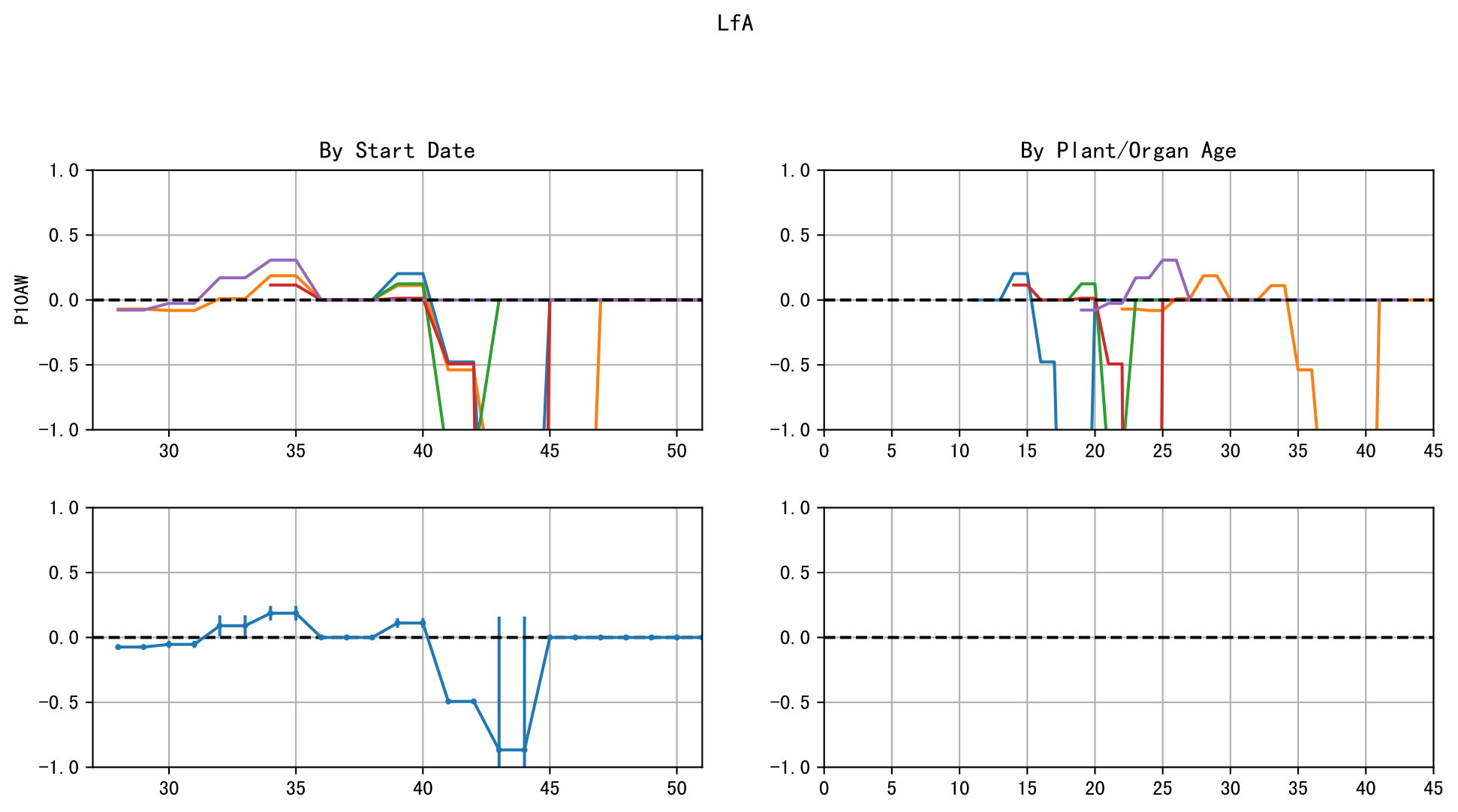

P10AW-054-10L17 (fit failed)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
48
49
50
51
52
LfA
P10AW-054-10L6 (fit failed)
0.8
0.6
0.4
0.2
0.0
BetaS [0.78, 5.5, 3.6, 16.14, 0.96]
UF
0
−1
0
10
20
30
40
50

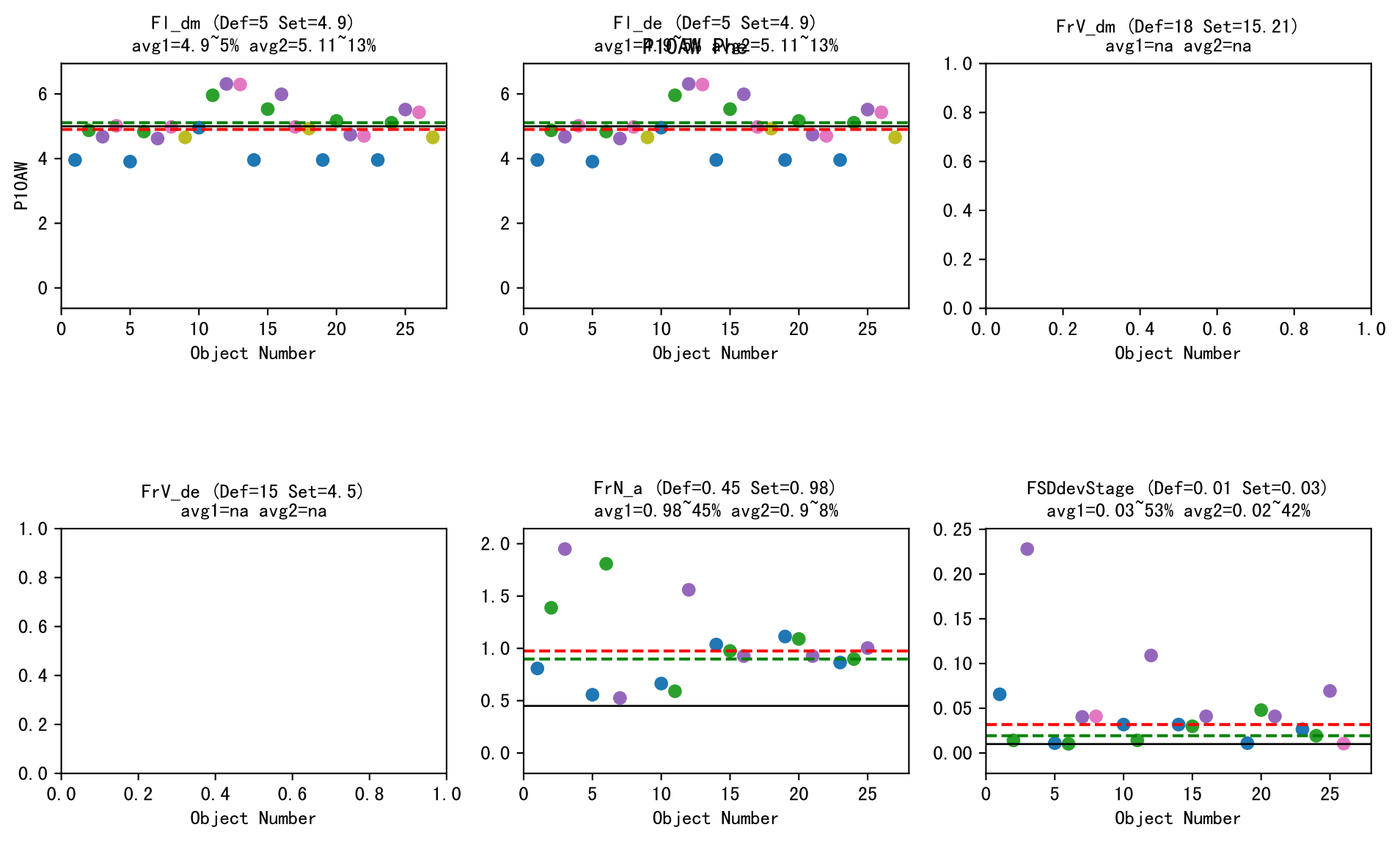

Ymax (Def=1 Set=0.8)
avg1=0.8~31% avg2=na
P10AW
1.25
1.00
0.75
0.50
0.25
0.00
0
2
4
6
8
10
Object Number

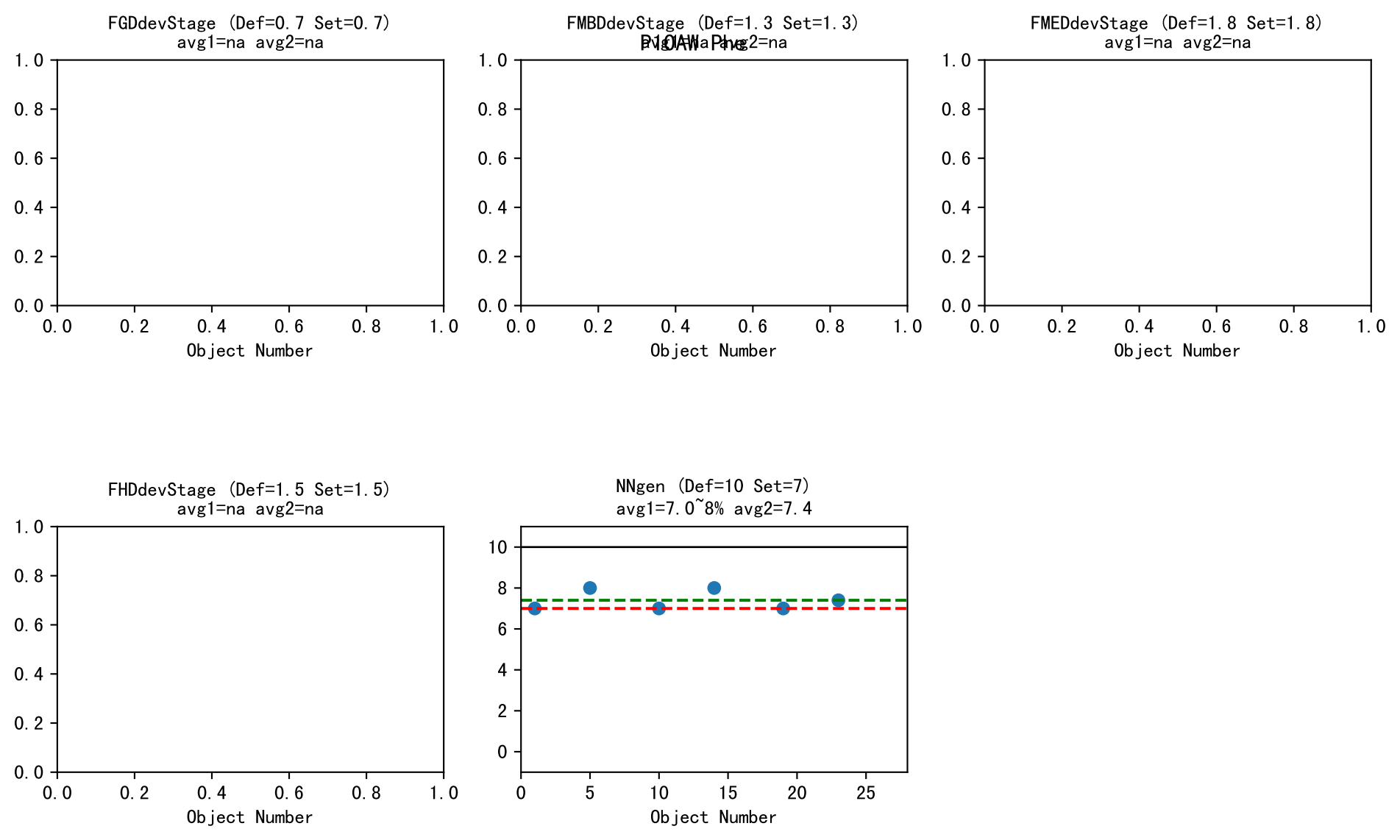

tb (Def=na Set=na)
avg1=16.32~56% avg2=na
20
10
0
0
2
4
6
8
10
Object Number

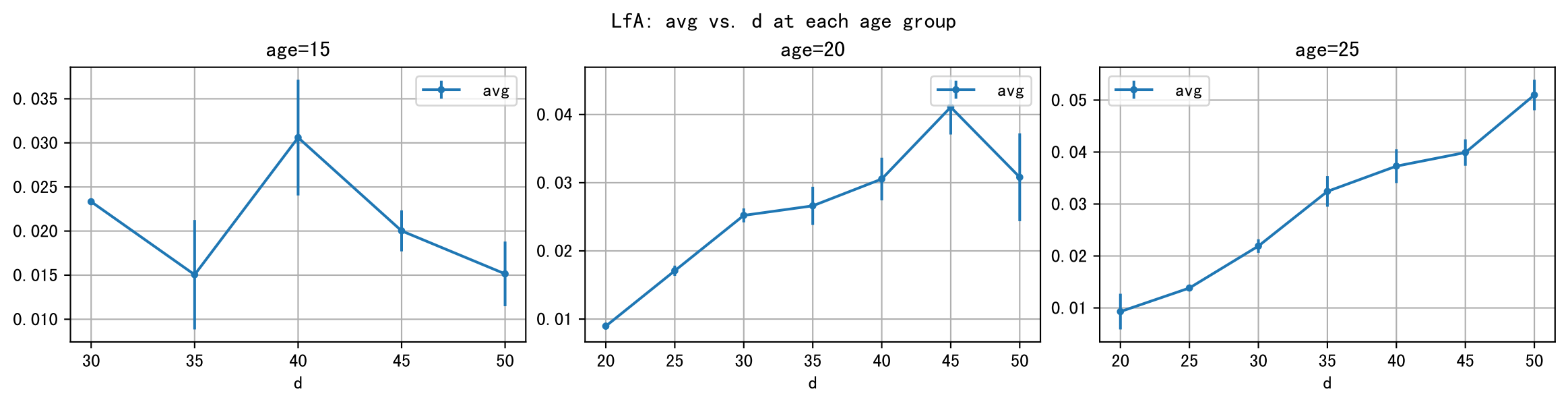

dm (Def=12 Set=8.28)
avg1=6.21~26% avg2=na
12.5
10.0
7.5
5.0
2.5
0.0
0
2
4
6
8
10
Object Number

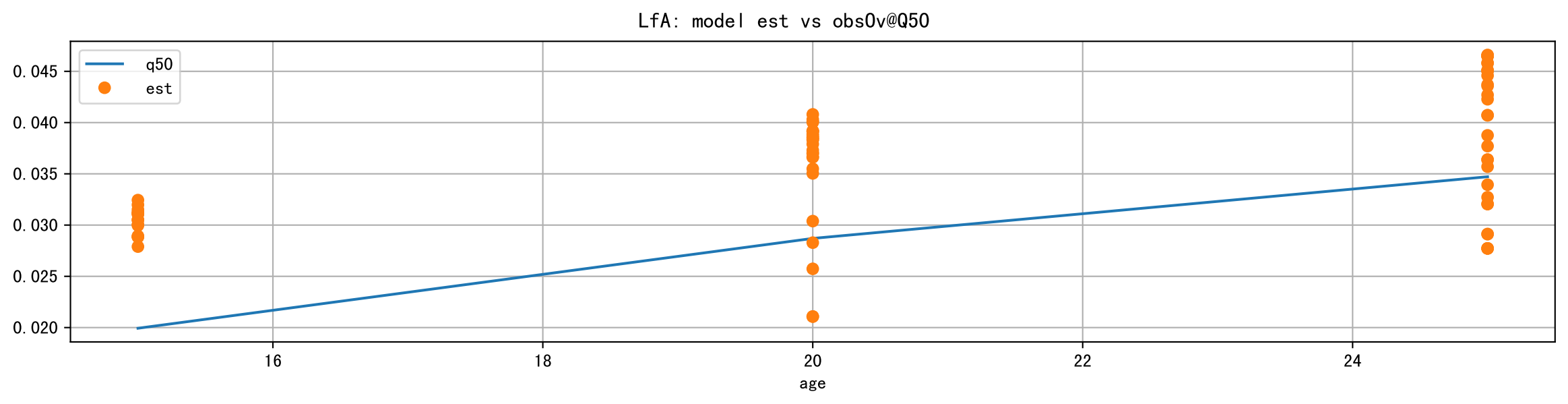

de (Def=12 Set=9.75)
avg1=9.75~54% avg2=na
20
15
10
5
0
0
2
4
6
8
10
Object Number

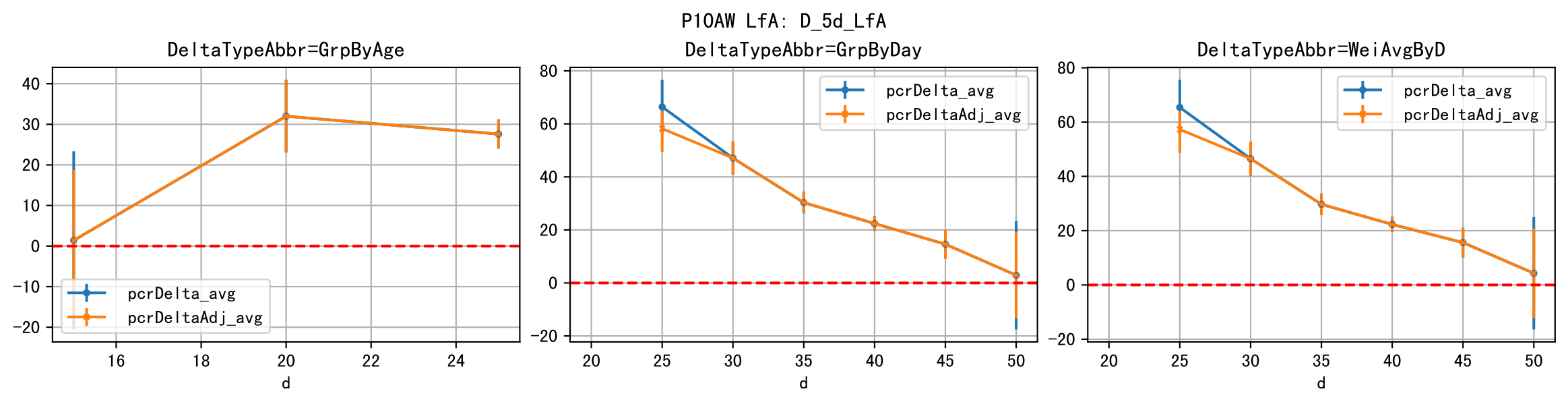

LfA
By Start Date
By Plant/Organ Age
P10AW
1.0
0.5
0.0
−0.5
−1.0
30
35
40
45
50
0
5
10
15
20
25
30
35
40
45

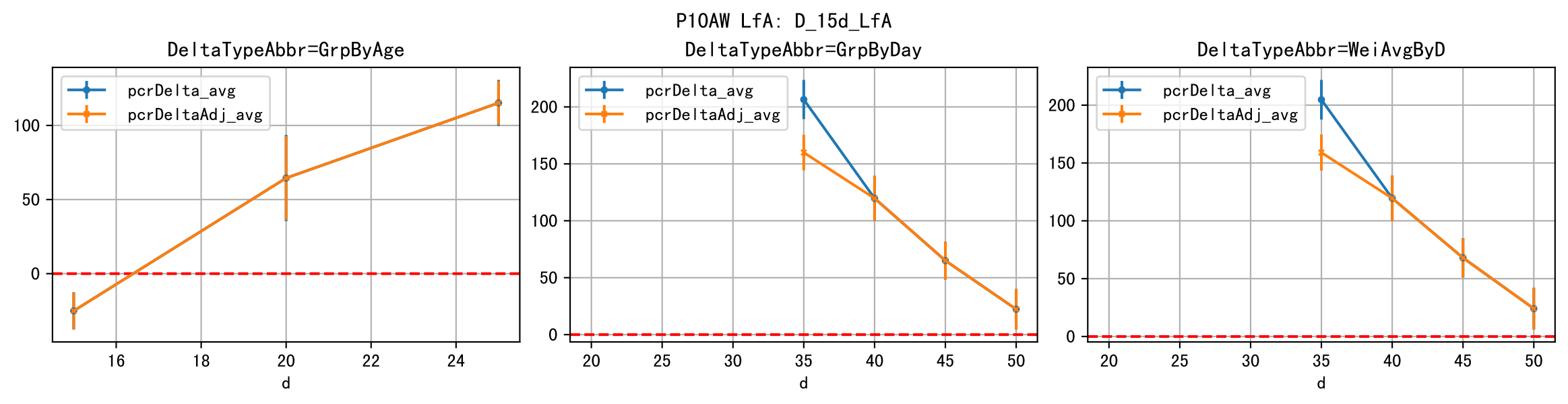

Fl_dm (Def=5 Set=4.9)
avg1=4.9~5% avg2=5.11~13%
P10AW
Object Number
Fl_de (Def=5 Set=4.9)
avg1=4.9~5% avg2=5.11~13%
Object Number
FrV_dm (Def=18 Set=15.21)
avg1=na avg2=na
Object Number
FrV_de (Def=15 Set=4.5)
avg1=na avg2=na
Object Number
FrN_a (Def=0.45 Set=0.98)
avg1=0.98~45% avg2=0.9~8%
Object Number
FSDdevStage (Def=0.01 Set=0.03)
avg1=0.03~53% avg2=0.02~42%
Object Number

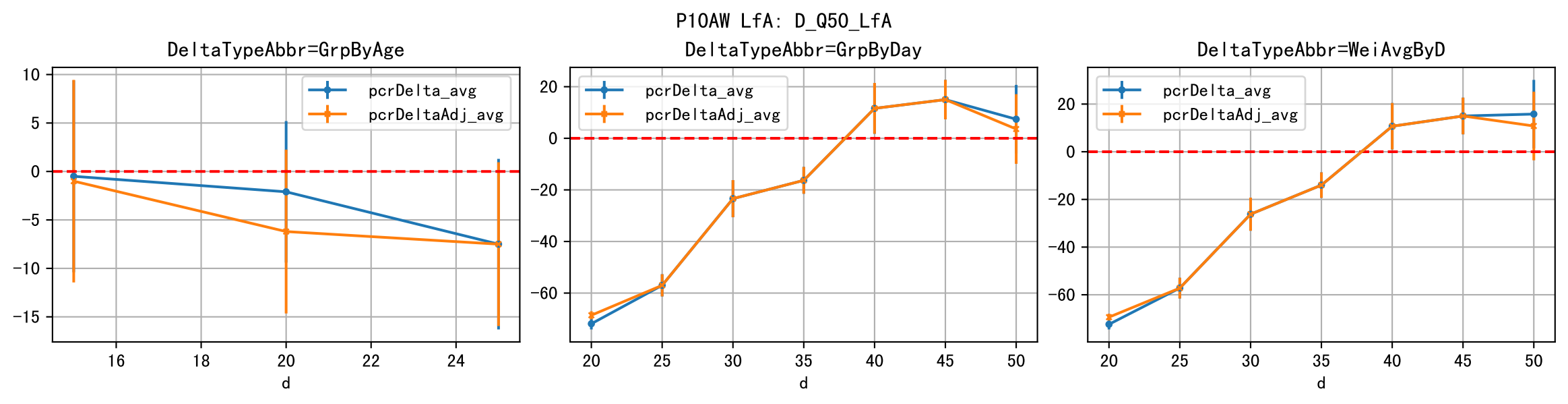

FGDdevStage (Def=0.7 Set=0.7)
avg1=na avg2=na
FMBDdevStage (Def=1.3 Set=1.3)
avg1=na avg2=na
FMEDdevStage (Def=1.8 Set=1.8)
avg1=na avg2=na
FHDdevStage (Def=1.5 Set=1.5)
avg1=na avg2=na
NNgen (Def=10 Set=7)
avg1=7.0~8% avg2=7.4
Object Number

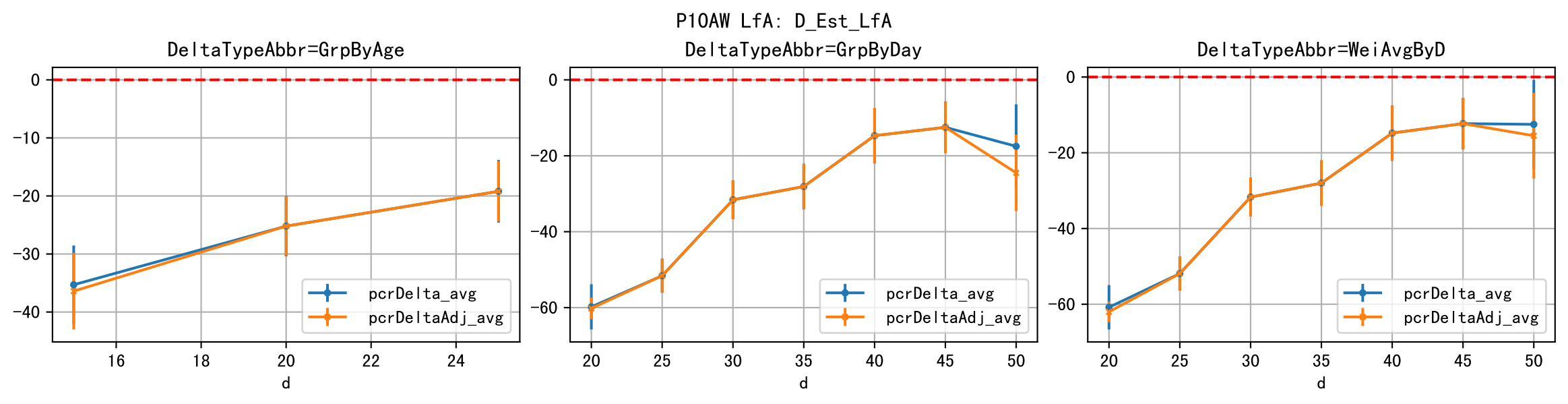

LfA: avg vs. d at each age group
age=15
age=20
age=25
avg
d
0.035
0.030
0.025
0.020
0.015
0.010
0.04
0.03
0.02
0.01
0.05
30
35
40
45
50
20
25

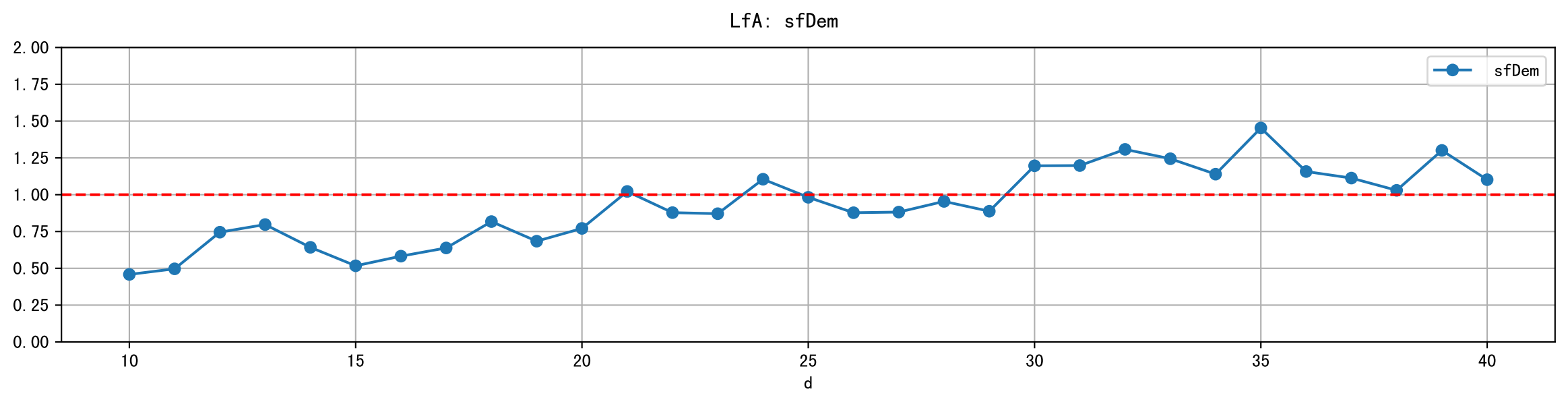

LfA: model est vs obs0v@Q50
q50
est
0.045
0.040
0.035
0.030
0.025
0.020
16
18
20
22
24
age

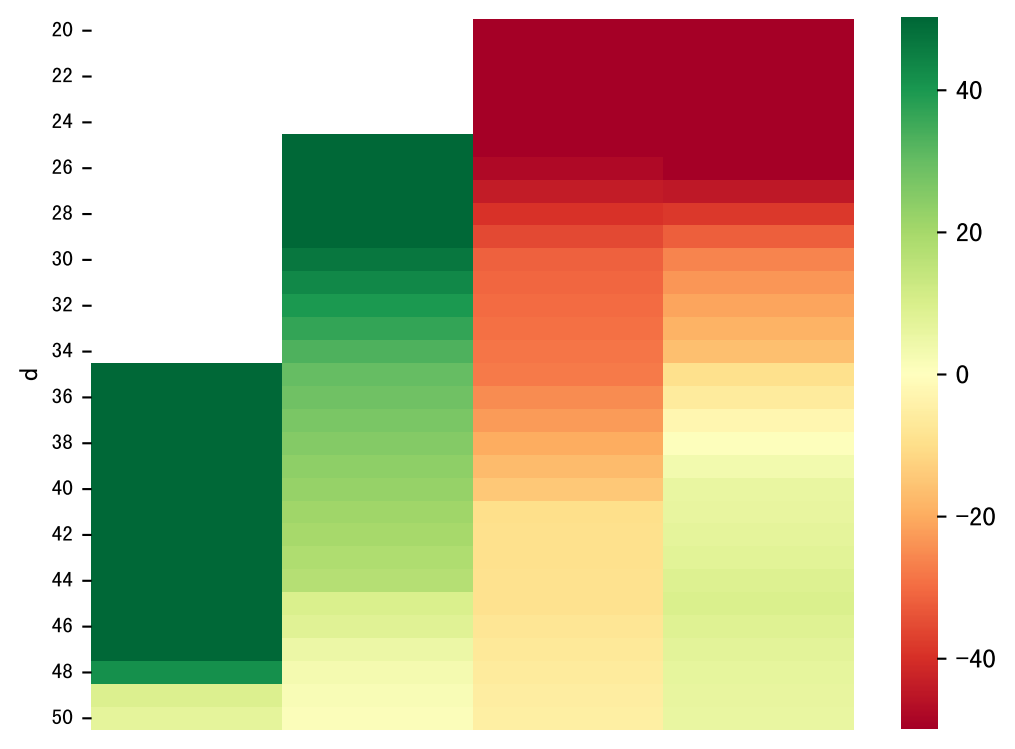

P1OAW LfA: D_5d_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

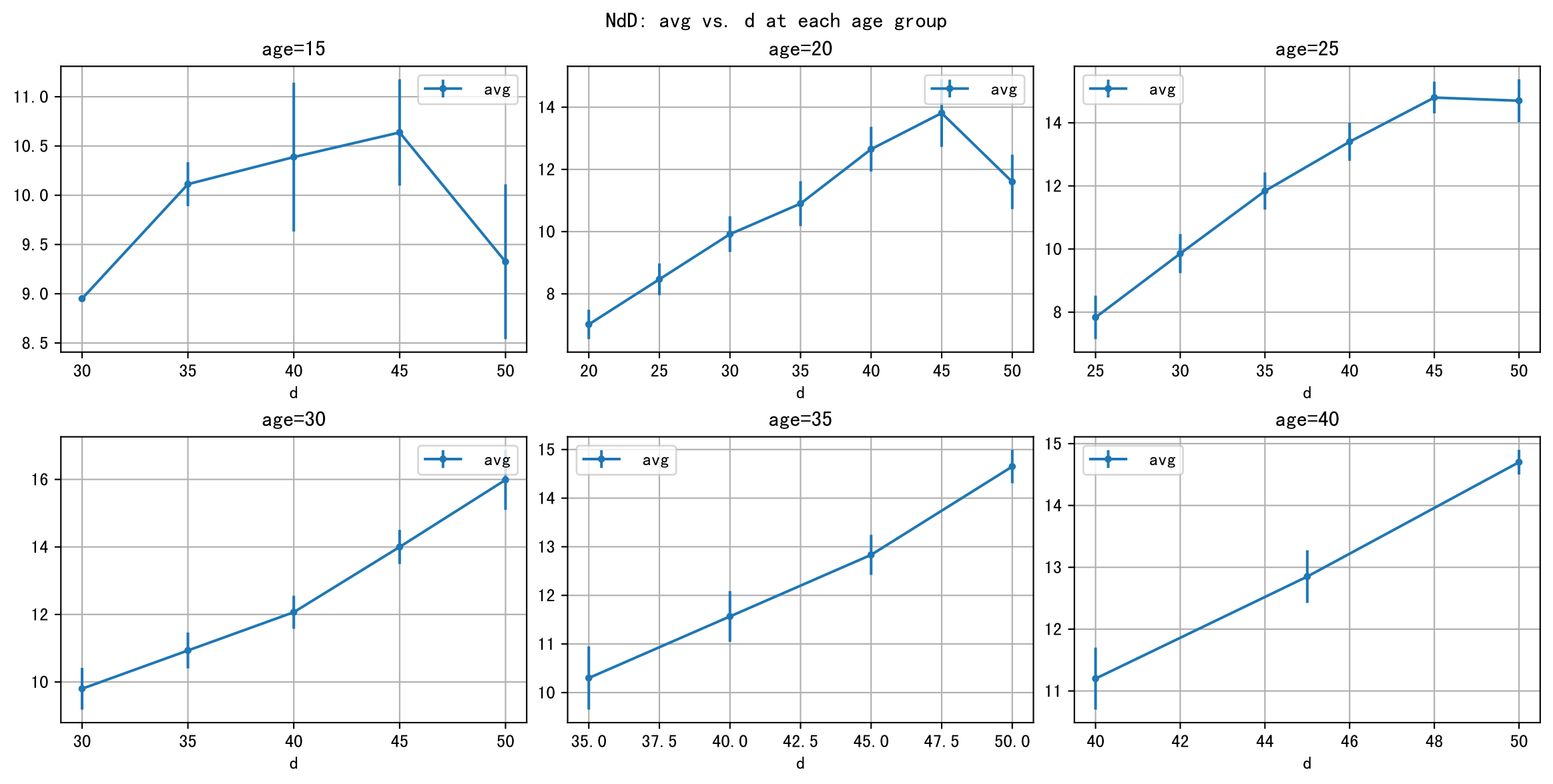

P10AW LfA: D_15d_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

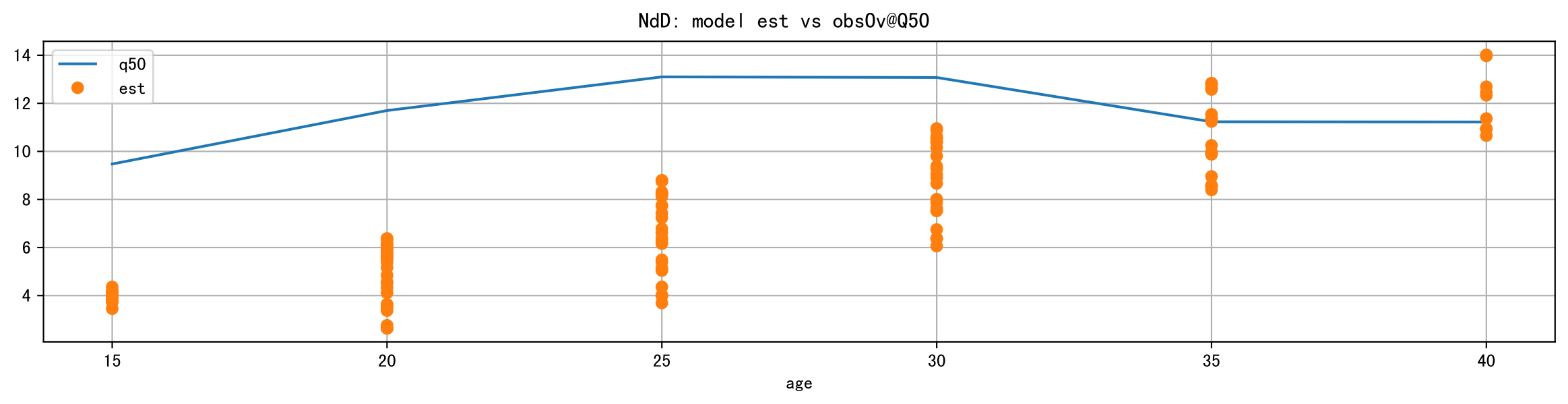

P10AW LfA: D_Q50_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

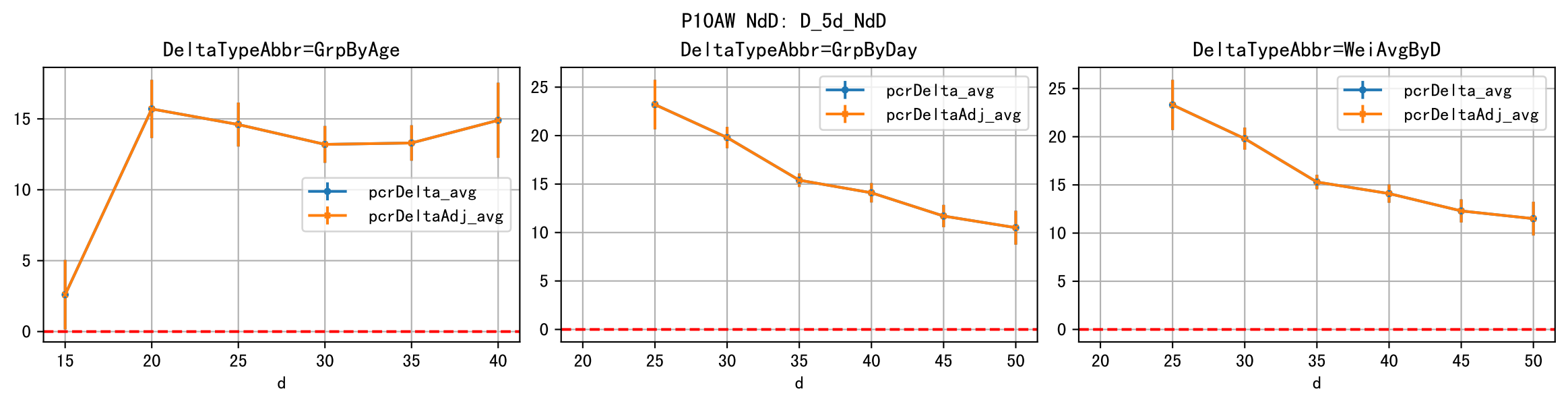

P1OAW LfA: D_Est_LfA
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

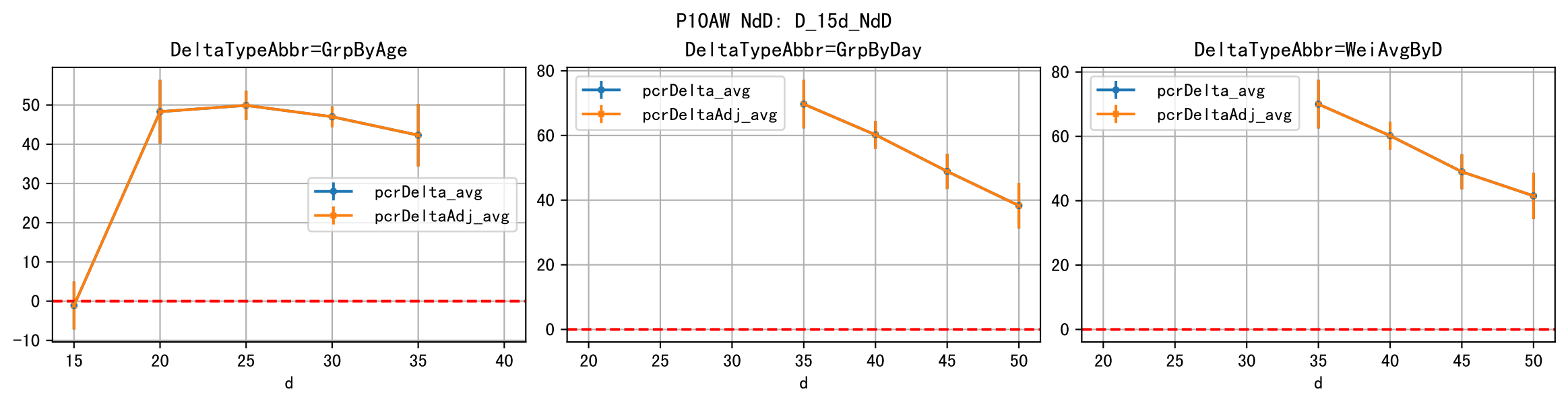

LfA: sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
15
20
25
30
35
40
d
sfDem

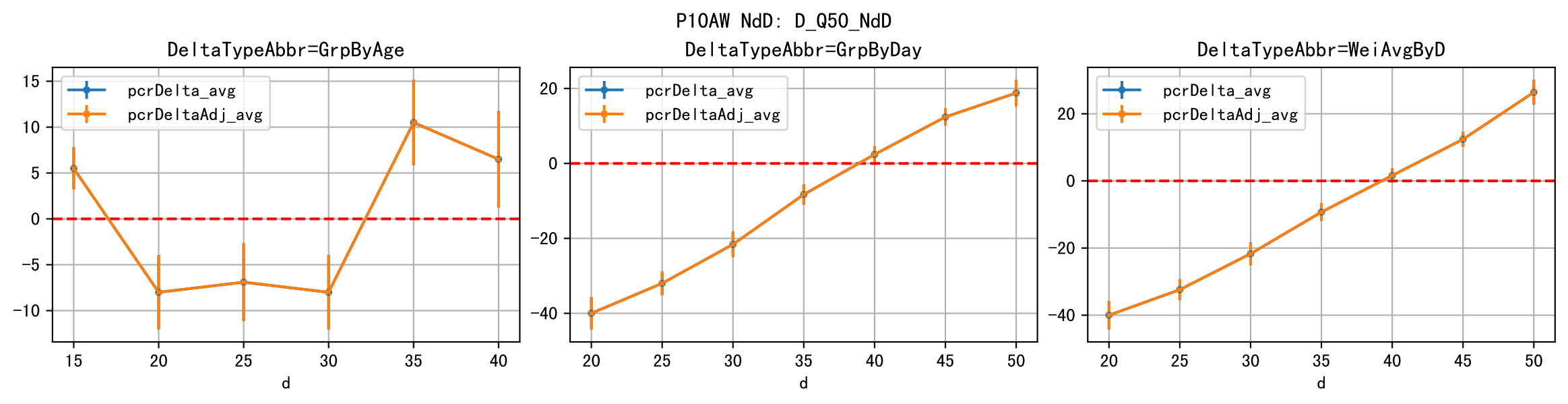

d
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
40
20
0
−20
−40

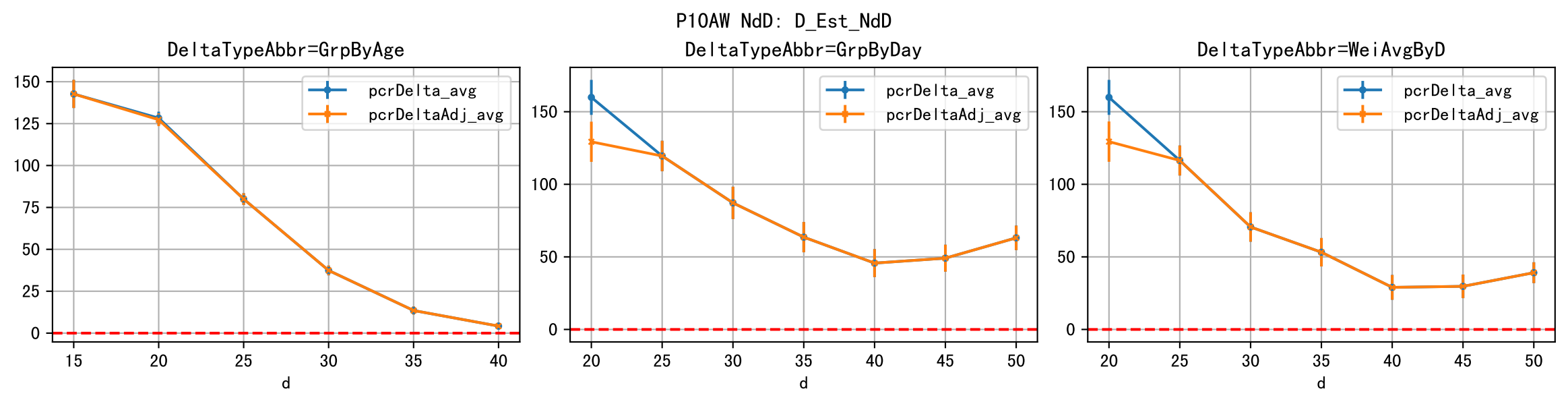

NdD: avg vs. d at each age group
age=15
age=20
age=25
age=30
age=35
age=40
avg
d

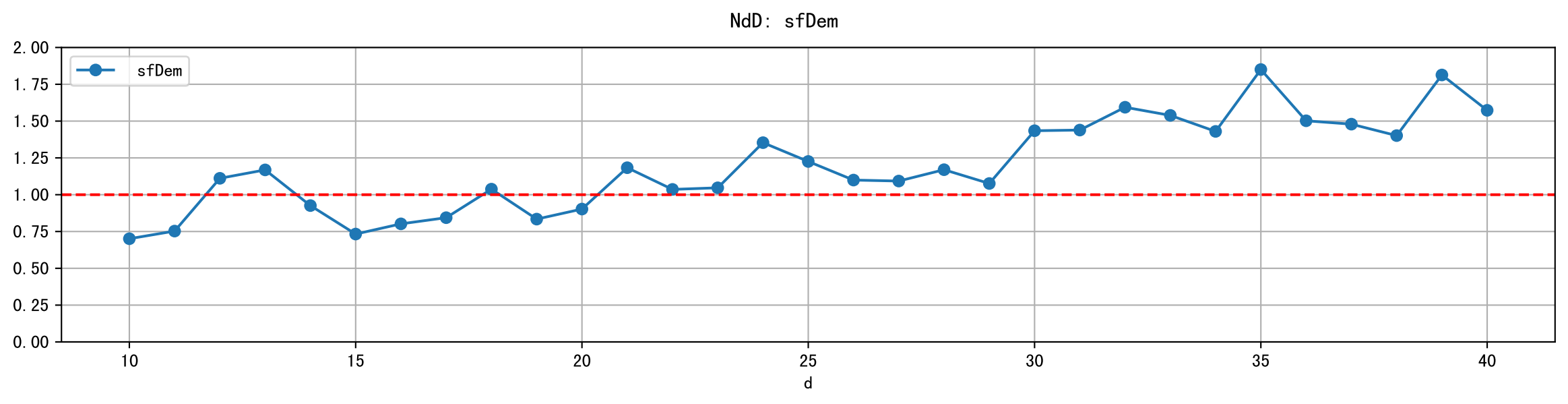

NdD: model est vs obsOv@Q50
q50
est
14
12
10
8
6
4
15
20
25
30
35
40
age

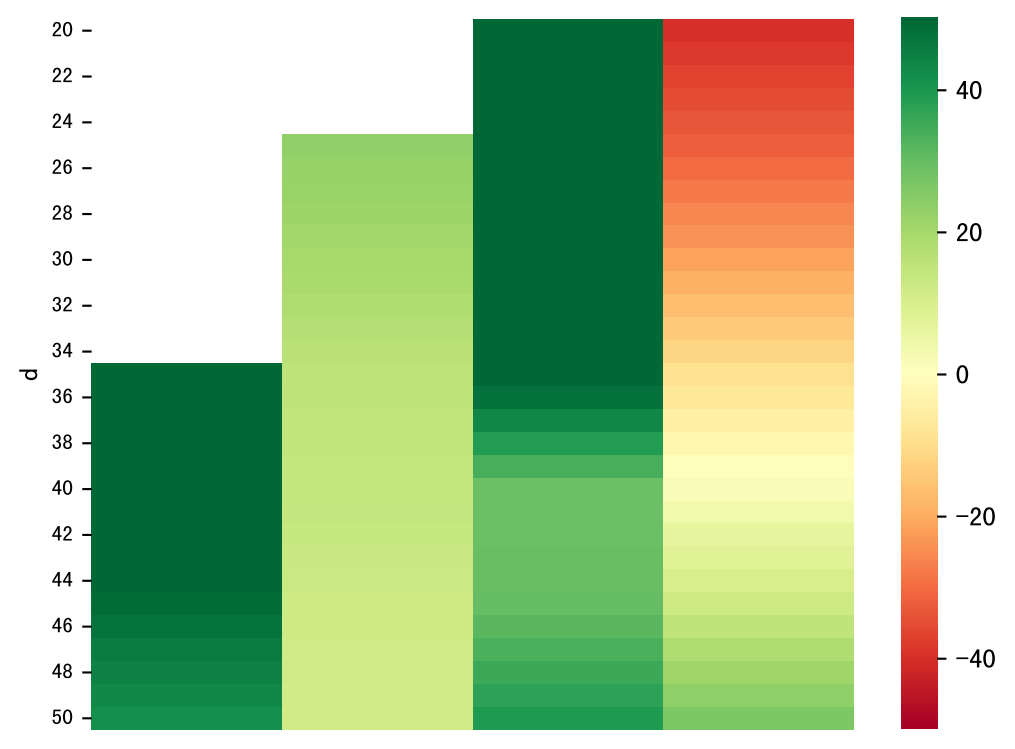

P10AW NdD: D_5d_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

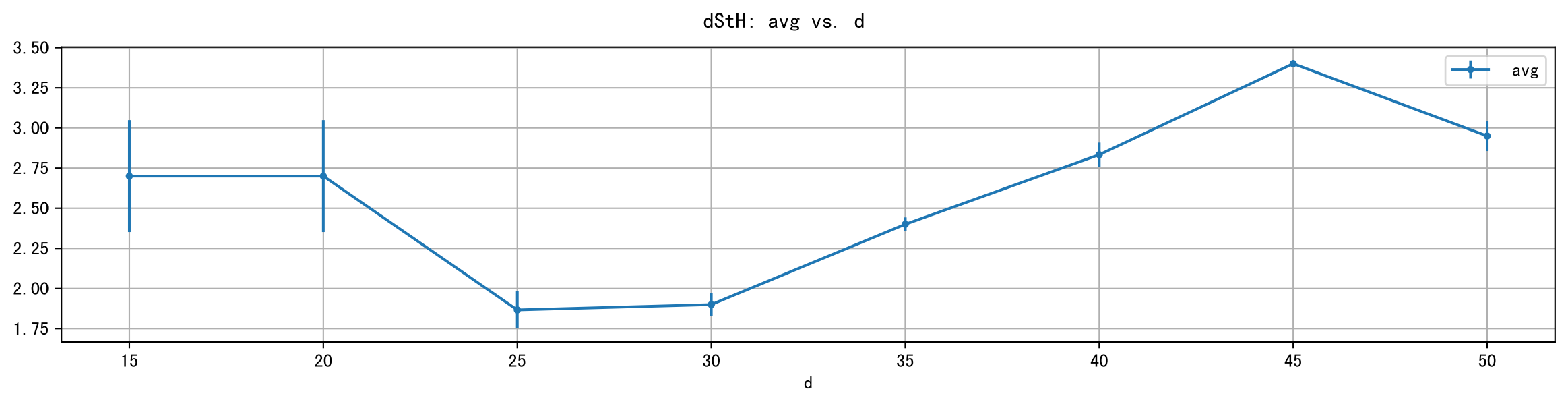

P10AW NdD: D_15d_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

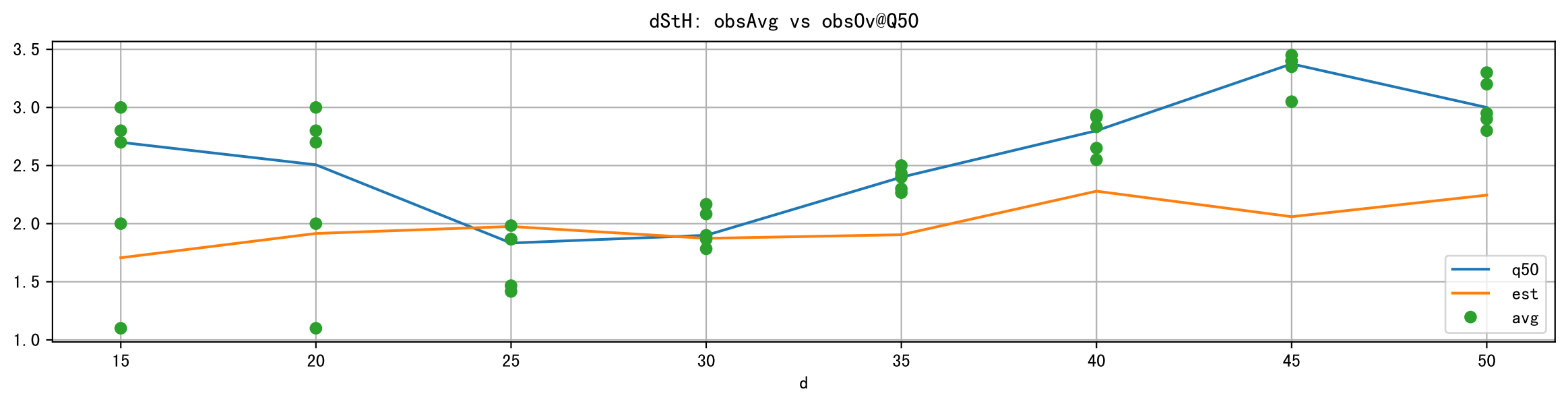

P10AW NdD: D_Q50_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

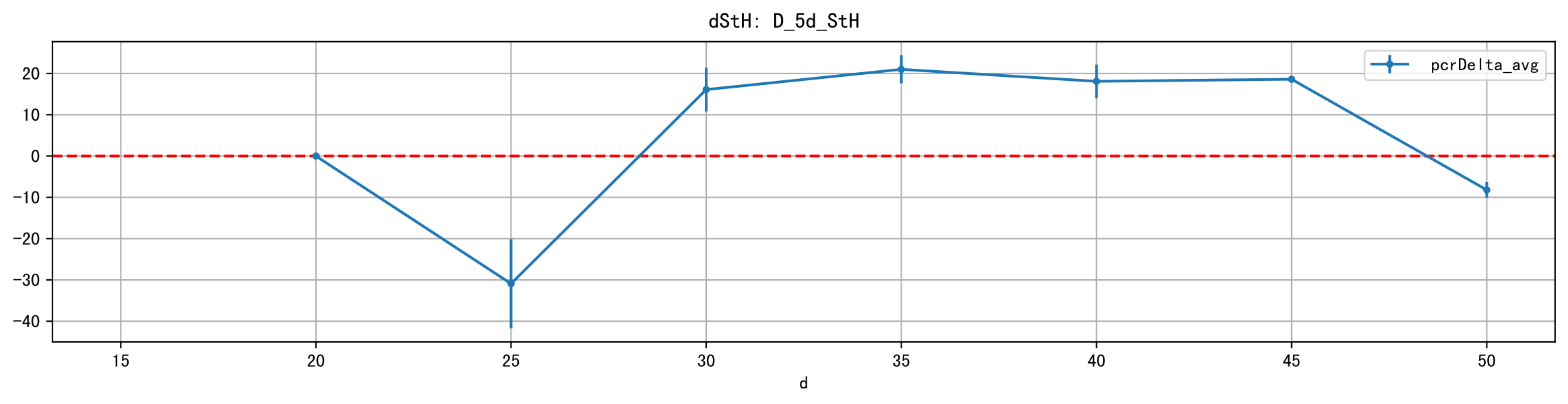

P1OAW NdD: D_Est_NdD
DeltaTypeAbbr=GrpByAge
DeltaTypeAbbr=GrpByDay
DeltaTypeAbbr=WeiAvgByD
pcrDelta_avg
pcrDeltaAdj_avg
d

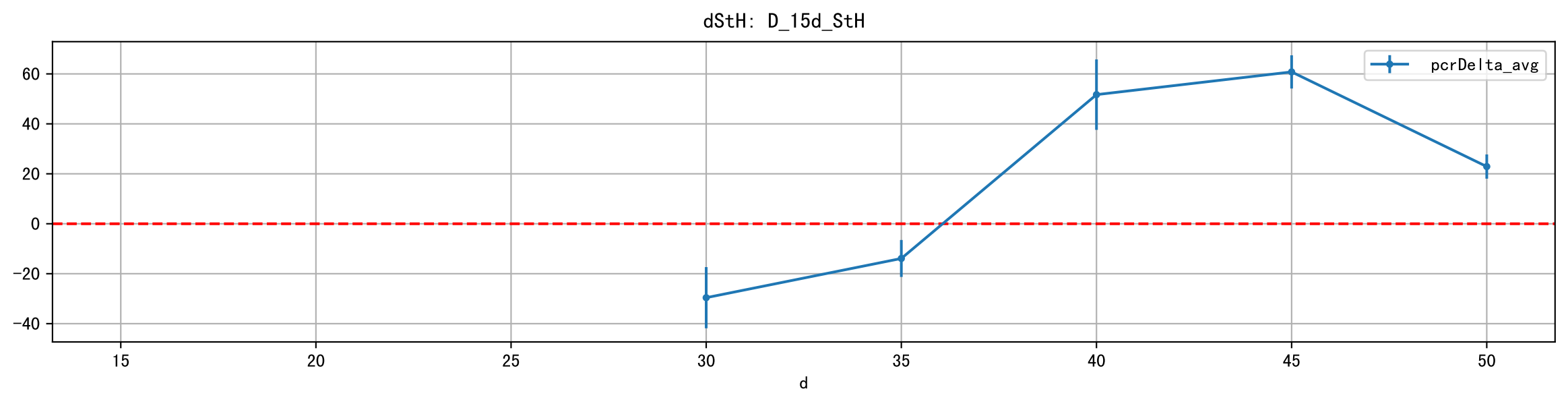

NdD: sfDem
sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
15
20
25
30
35
40
d

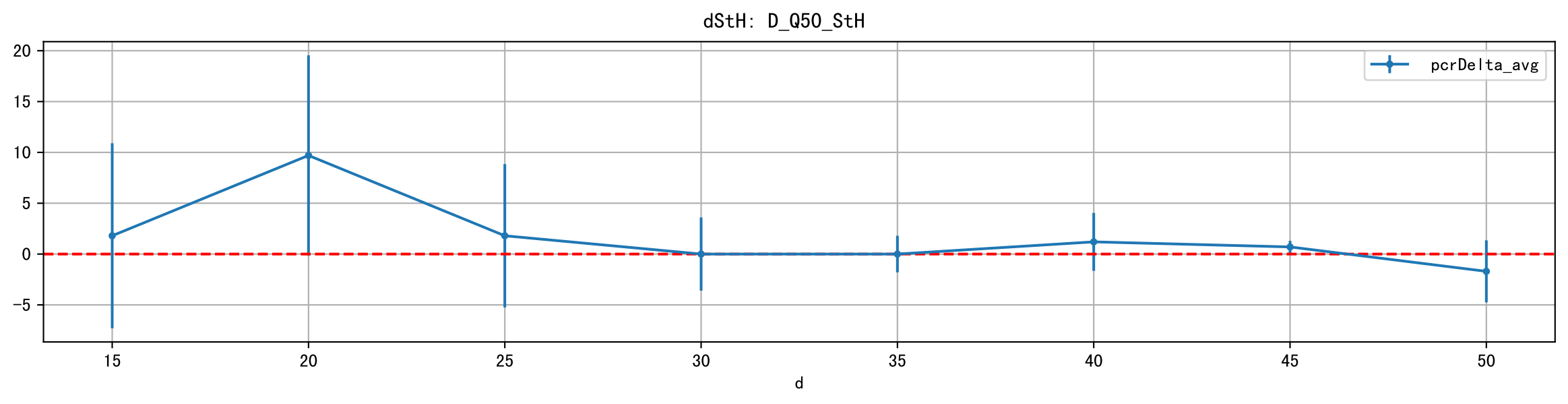

d
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
40
20
0
−20
−40

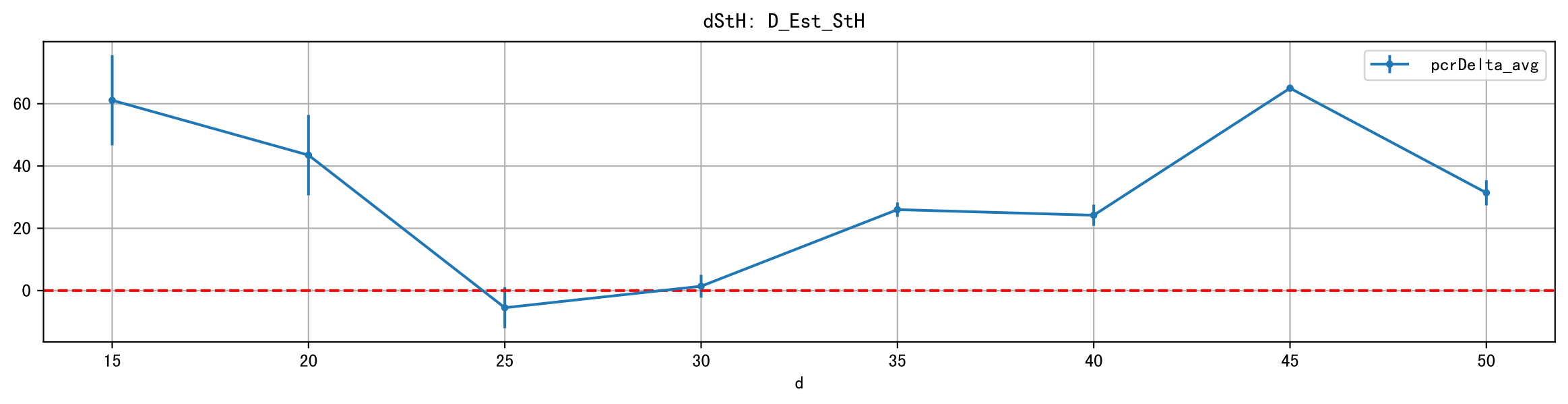

dStH: avg vs. d
3.50
3.25
3.00
2.75
2.50
2.25
2.00
1.75
15
20
25
30
35
40
45
50
d
avg

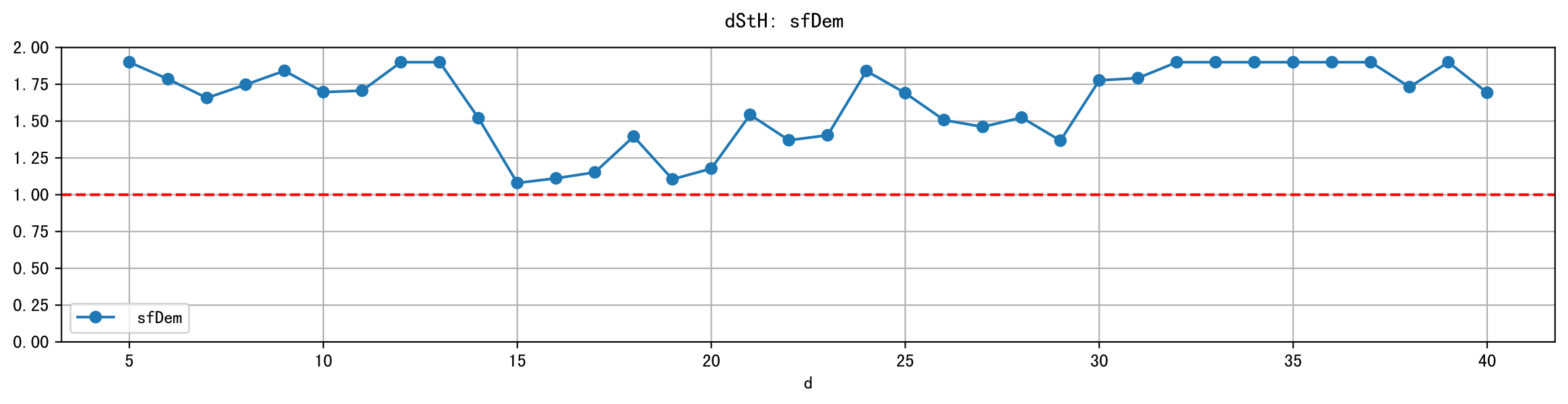

dStH: obsAvg vs obsOv@Q50
3.5
3.0
2.5
2.0
1.5
1.0
15
20
25
30
35
40
45
50
d
q50
est
avg

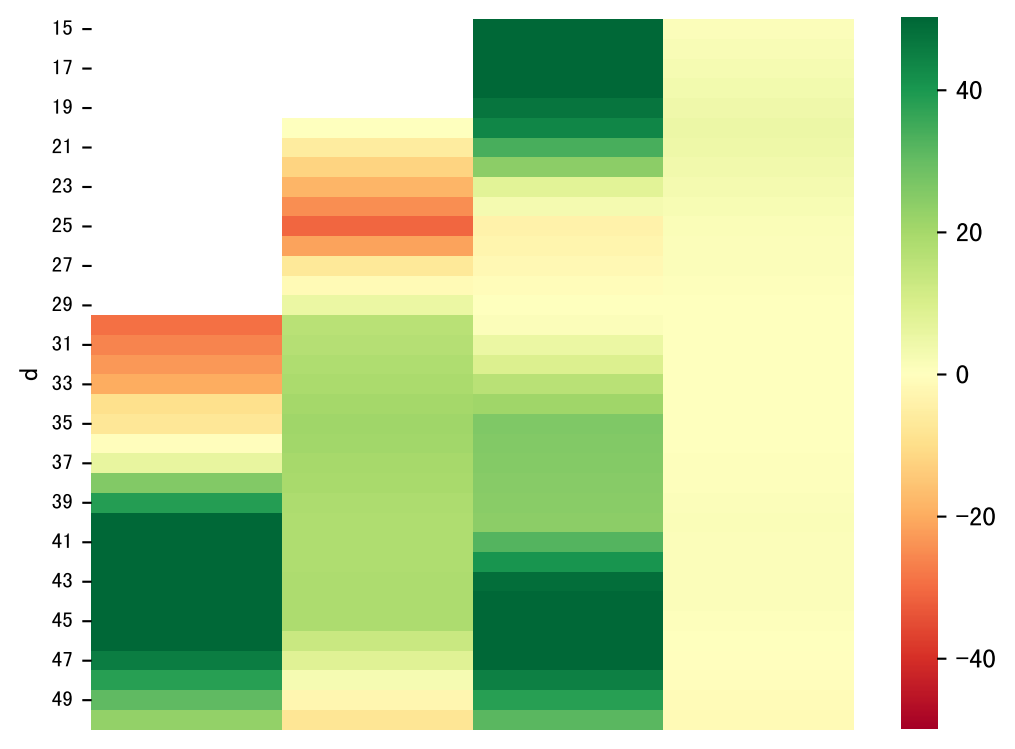

dStH: D_5d_StH
pcrDelta_avg
20
10
0
−10
−20
−30
−40
15
20
25
30
35
40
45
50
d

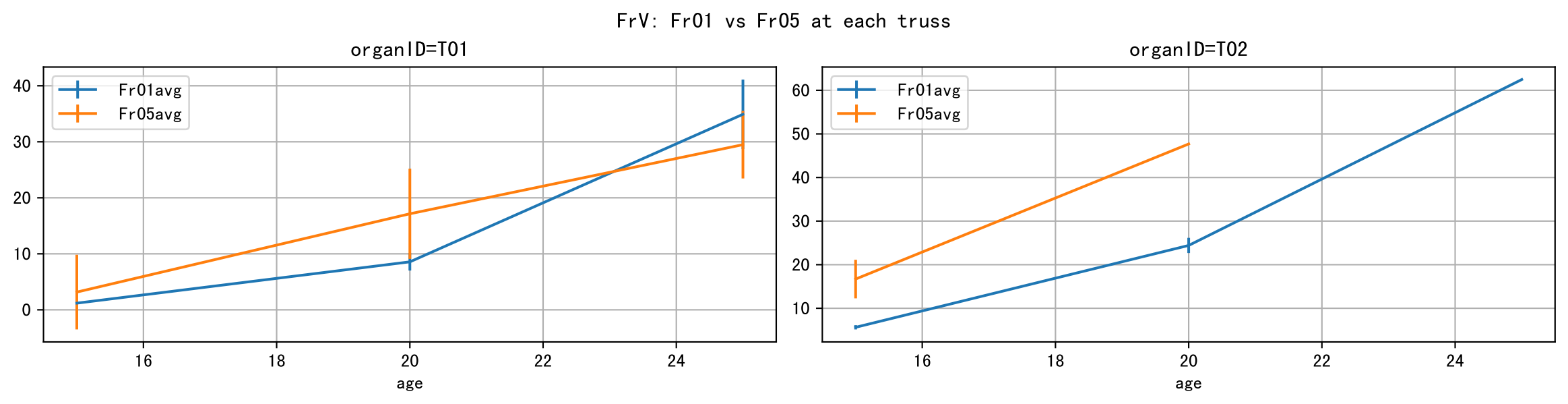

dStH: D_15d_StH
pcrDelta_avg
60
40
20
0
−20
−40
15
20
25
30
35
40
45
50
d

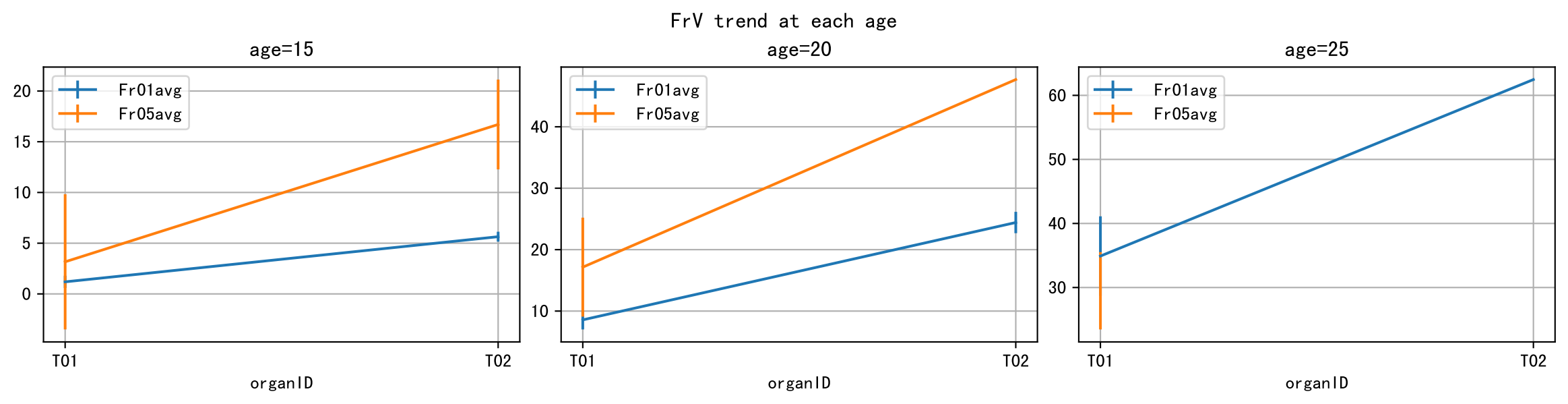

dStH: D_Q50_StH
pcrDelta_avg
20
15
10
5
0
−5
15
20
25
30
35
40
45
50
d

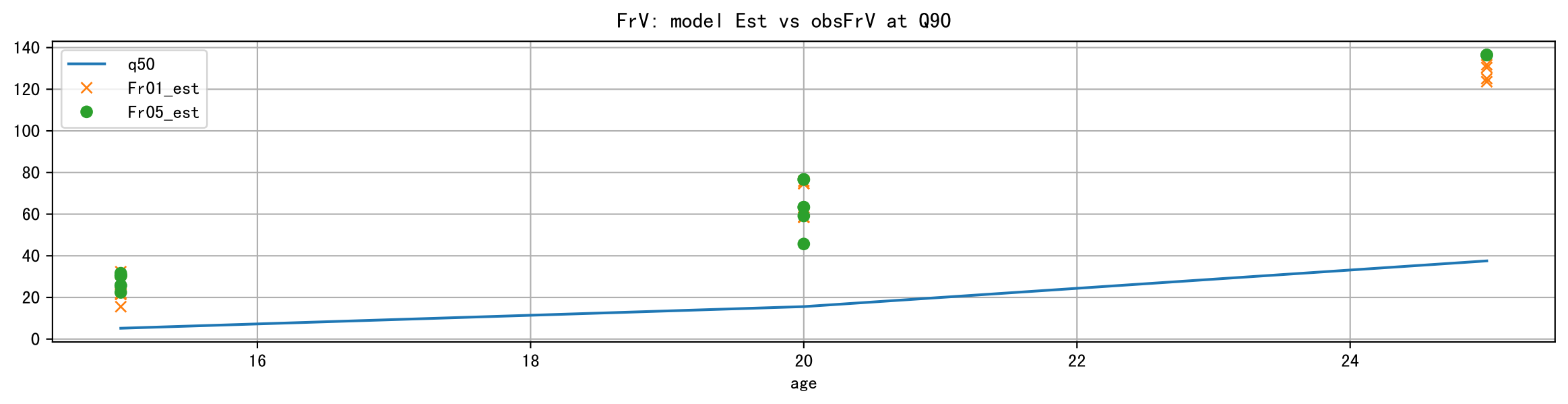

dStH: D_Est_StH
pcrDelta_avg
60
40
20
0
15
20
25
30
35
40
45
50
d

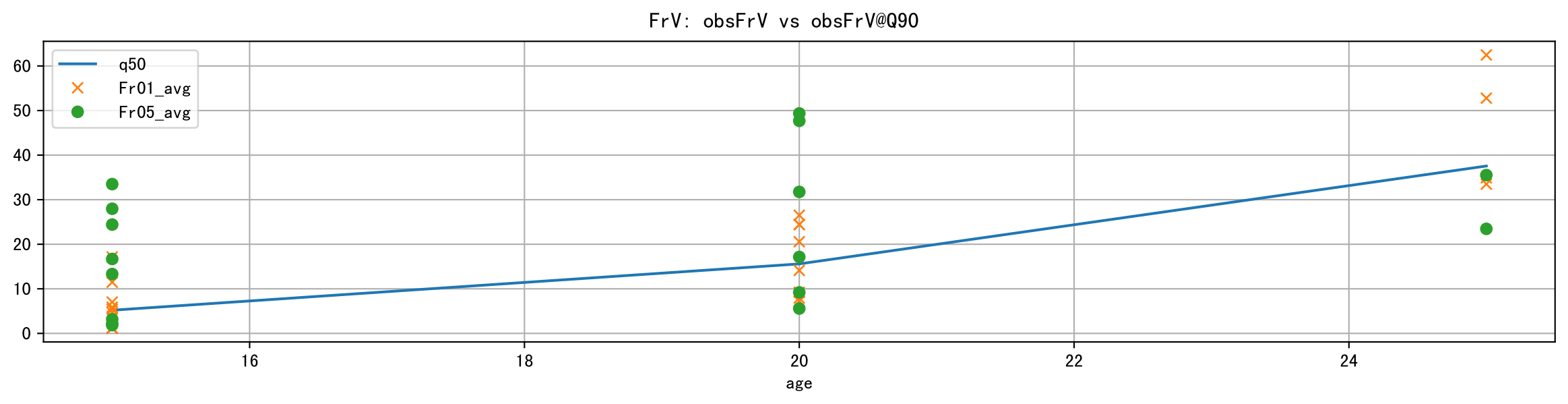

dStH: sfDem
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
sfDem
5
10
15
20
25
30
35
40
d

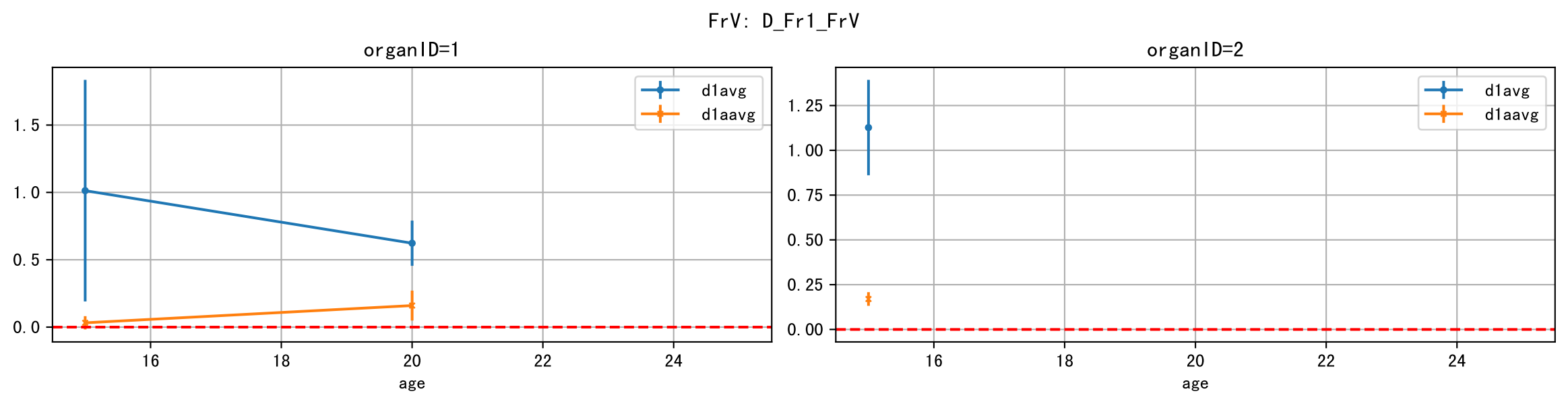

d
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
40
20
0
−20
−40

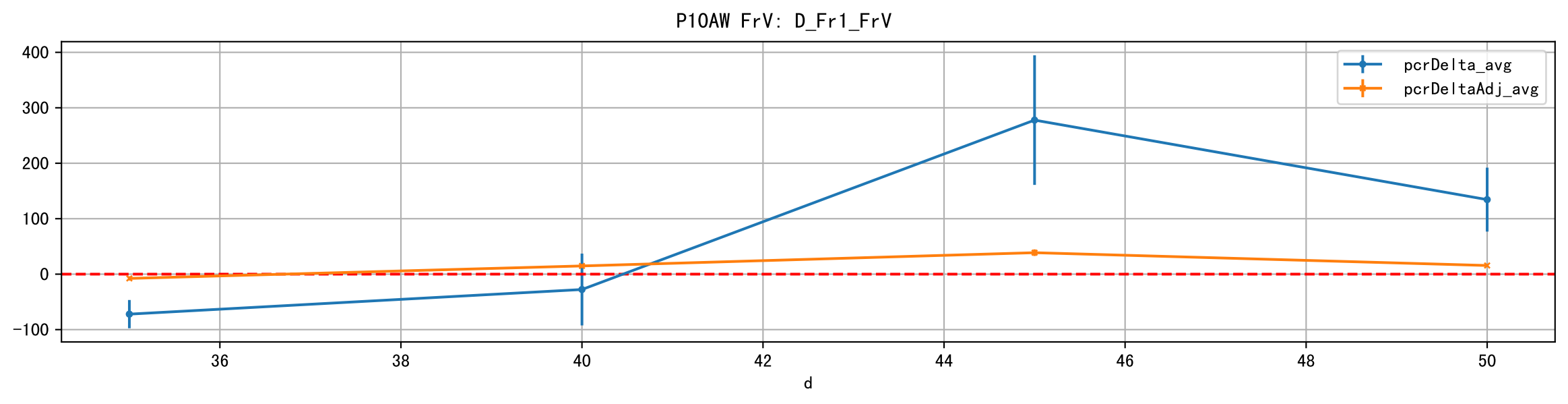

FrV: Fr01 vs Fr05 at each truss
organID=T01
organID=T02
Fr01avg
Fr05avg
Fr01avg
Fr05avg
40
30
20
10
0
60
50
40
30
20
10
16
18
20
22
24
16
18
20
22
24
age
age

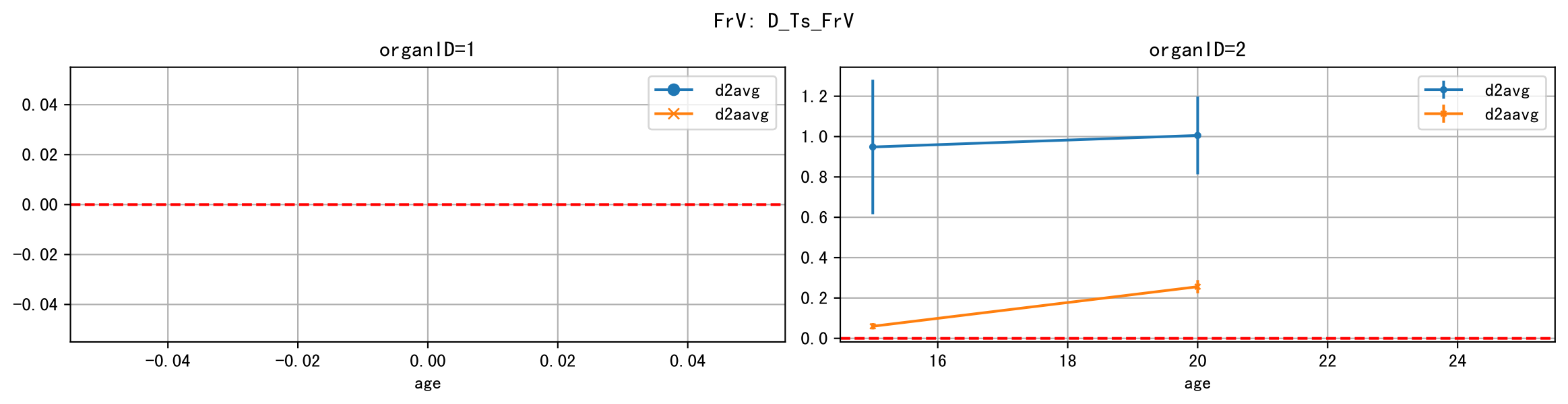

FrV trend at each age
age=15
age=20
age=25
Fr01avg
Fr05avg
T01
T02
organID

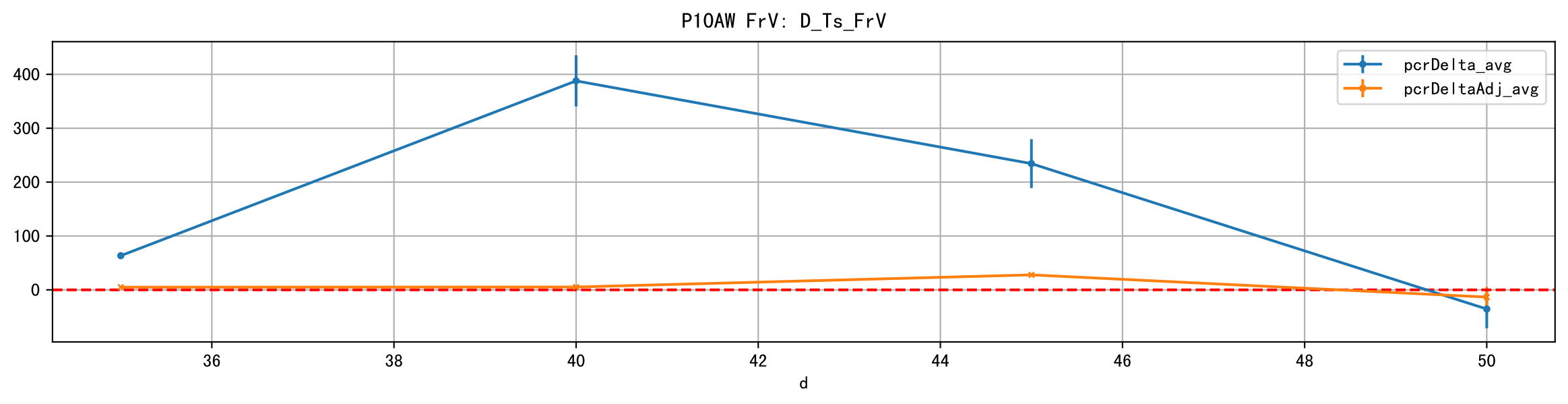

FrV: model Est vs obsFrV at Q90
q50
Fr01_est
Fr05_est
140
120
100
80
60
40
20
0
16
18
20
22
24
age

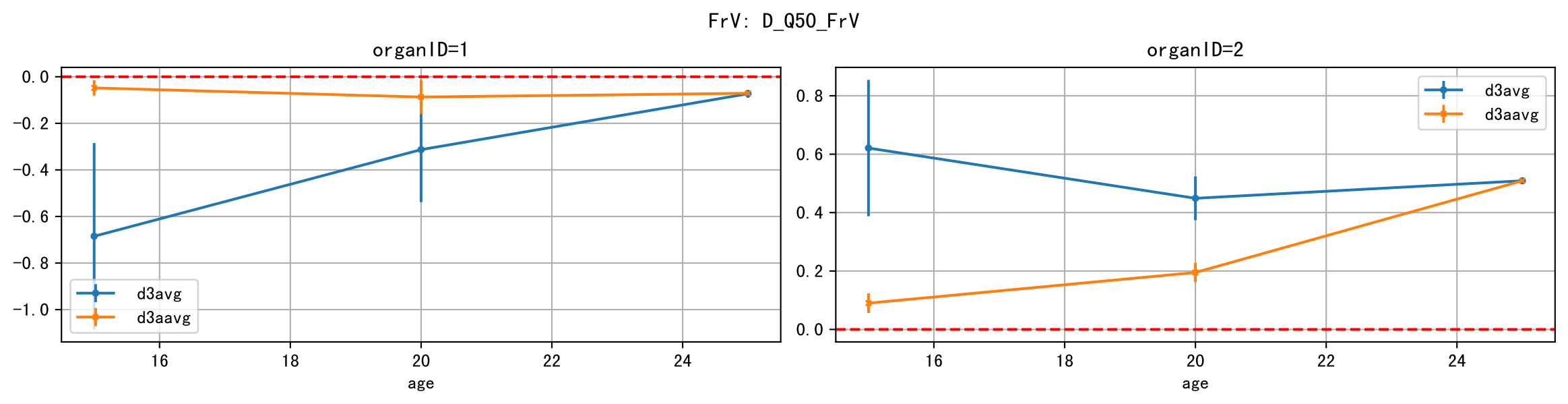

FrV: obsFrV vs obsFrV@Q90
q50
Fr01_avg
Fr05_avg
60
50
40
30
20
10
0
16
18
20
22
24
age

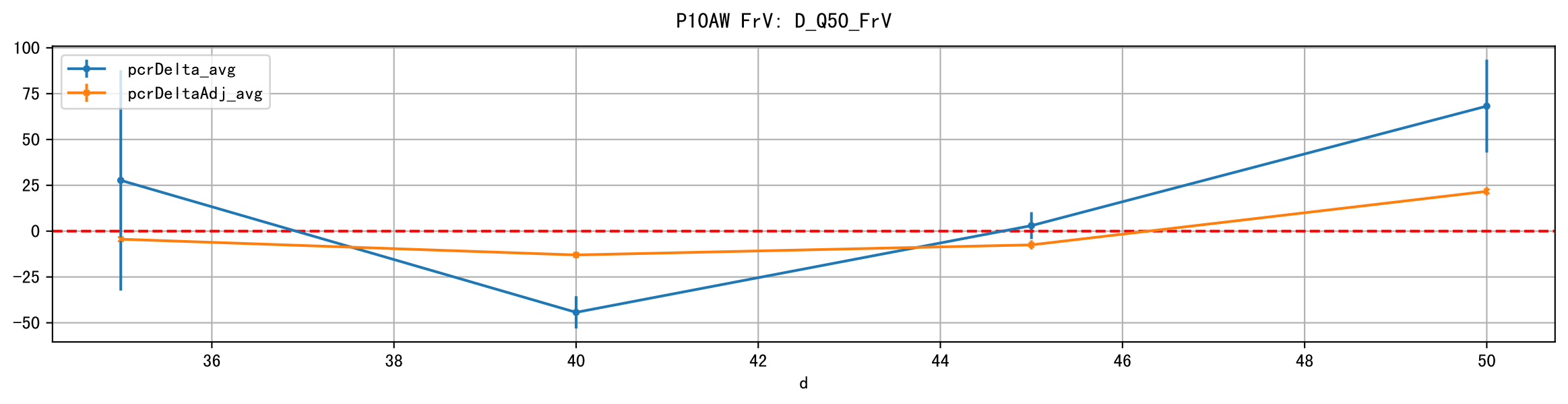

FrV: D_Fr1_FrV
organID=1
organID=2
d1avg
d1aavg
1.5
1.0
0.5
0.0
1.25
1.00
0.75
0.50
0.25
0.00
16
18
20
22
24
age

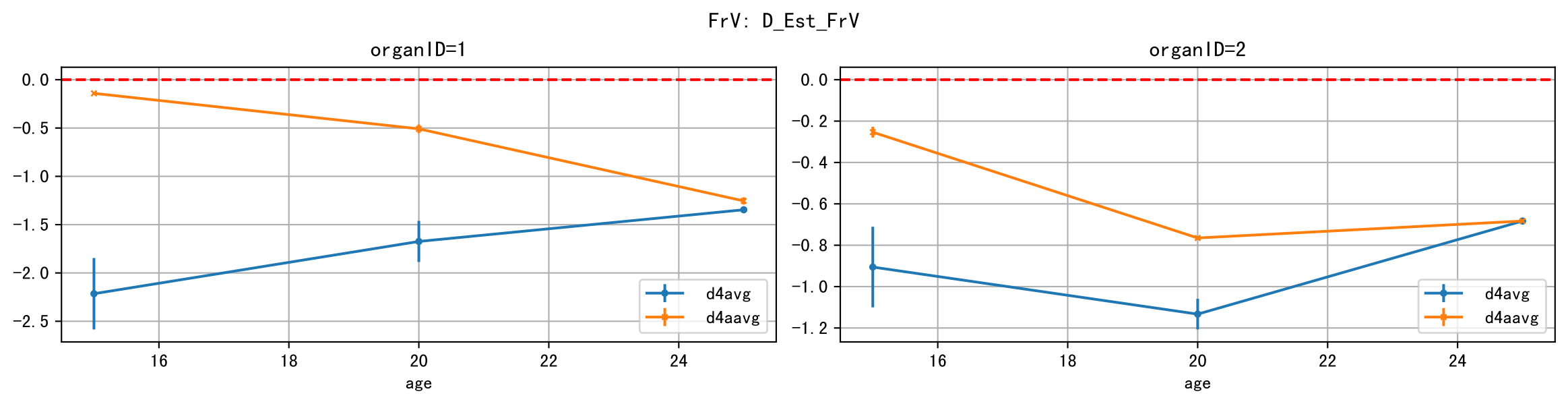

P10AW FrV: D_Fr1_FrV
pcrDelta_avg
pcrDeltaAdj_avg
400
300
200
100
0
−100
36
38
40
42
44
46
48
50
d


FrV: D_Ts_FrV
organID=1
organID=2
d2avg
d2aavg
0.04
0.02
0.00
−0.02
−0.04
1.2
1.0
0.8
0.6
0.4
0.2
0.0
16
18
20
22
24
age
age

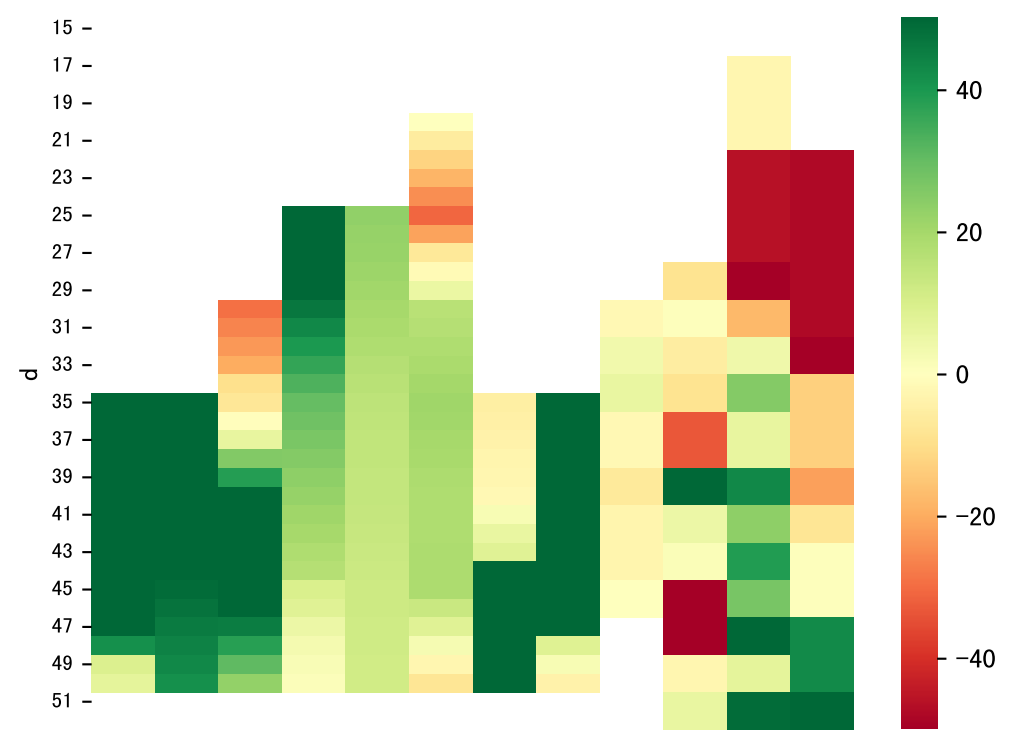

P10AW FrV: D_Ts_FrV
pcrDelta_avg
pcrDeltaAdj_avg
400
300
200
100
0
36
38
40
42
44
46
48
50
d


FrV: D_Q50_FrV
organID=1
organID=2
d3avg
d3aavg
age
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
0.8
0.6
0.4
0.2
16
18
20
22
24


P10AW FrV: D_Q50_FrV
pcrDelta_avg
pcrDeltaAdj_avg
100
75
50
25
0
−25
−50
36
38
40
42
44
46
48
50
d


FrV: D_Est_FrV
organID=1
organID=2
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−0.2
−0.4
−0.6
−0.8
−1.2
16
18
20
22
24
age
d4avg
d4aavg


d
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
40
20
0
−20
−40


d
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
40
20
0
−20
−40