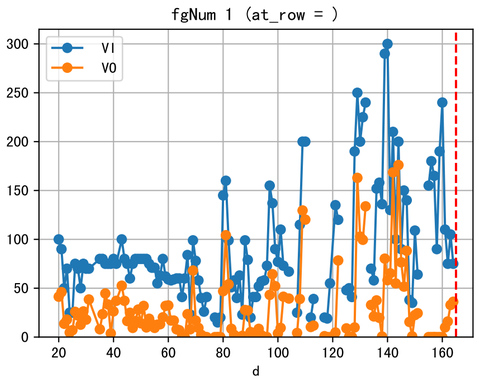
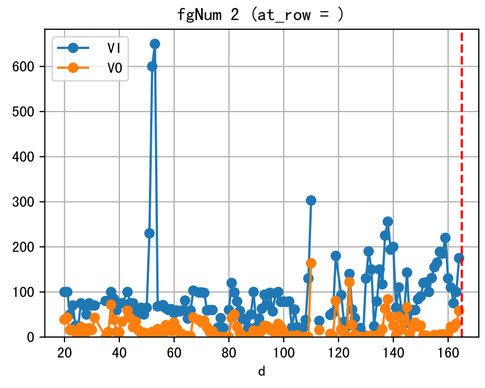
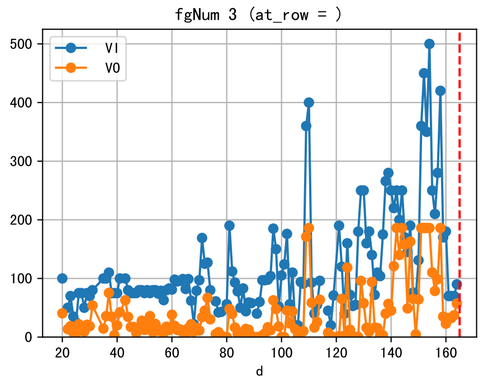
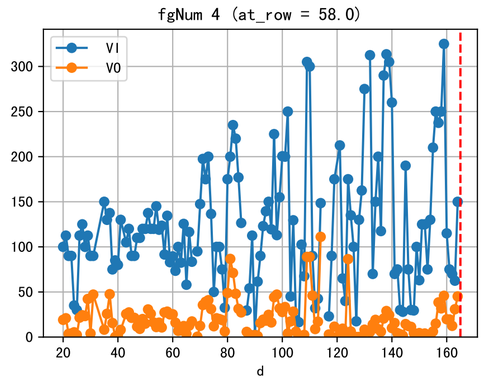
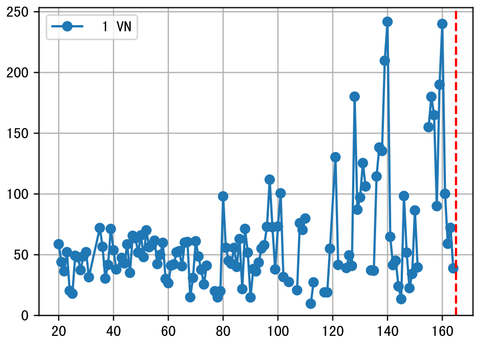
FgArea: ['4']
NJ15 L1
2026-03-20 (Day 165)

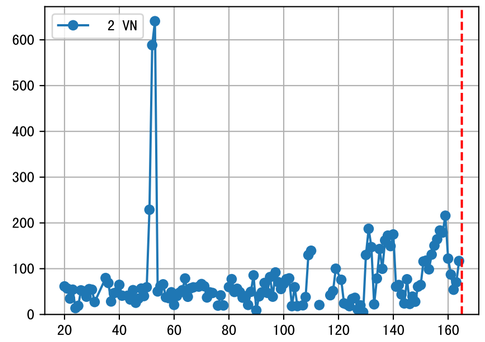

fgNum 1 (at_row =)
VI
VO
d

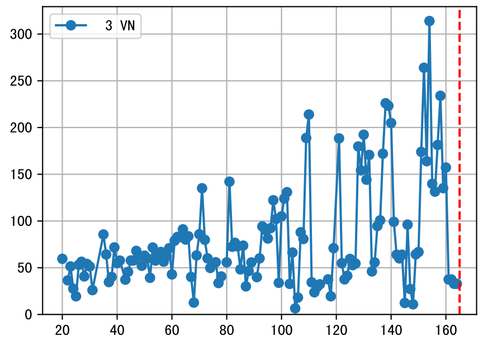

fgNum 2 (at_row =)
VI
VO
d

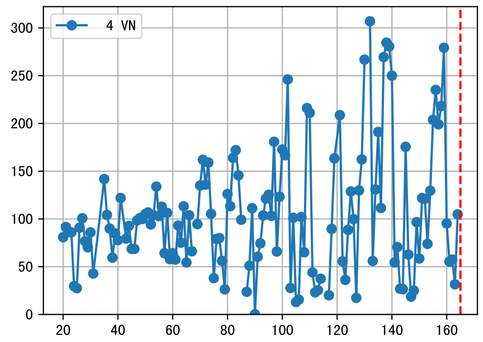

fgNum 3 (at_row =)
VI
VO
d

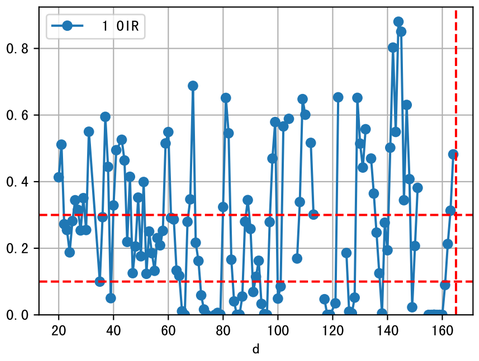

fgNum 4 (at_row = 58.0)
VI
VO
d

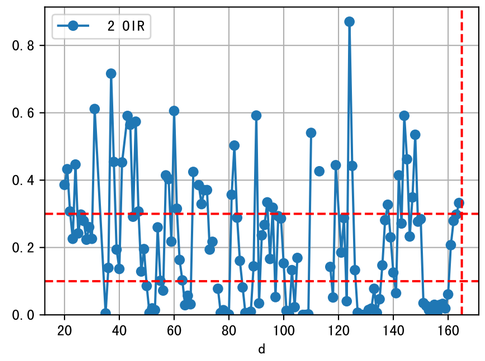

1 VN
d

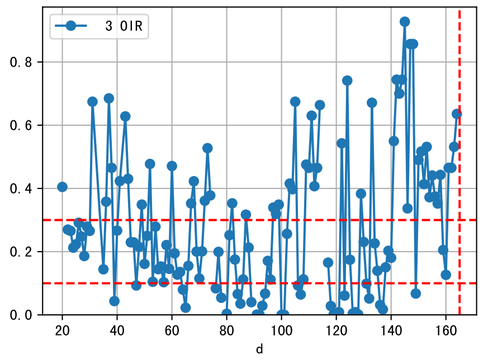

2 VN
d

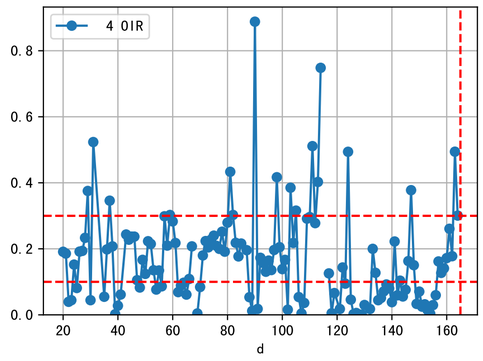

3 VN
d

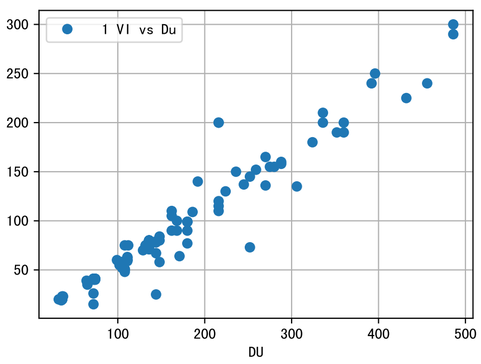

4 VN
d

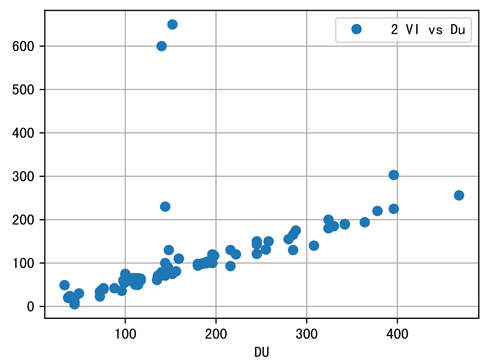

1 OIR
d

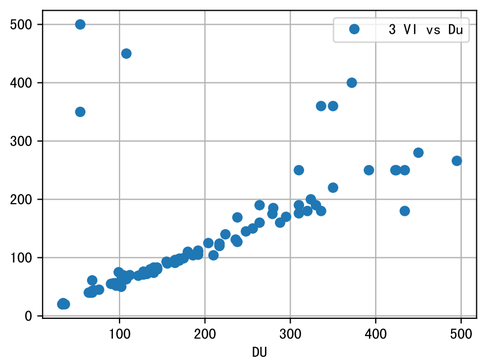

2 OIR
d

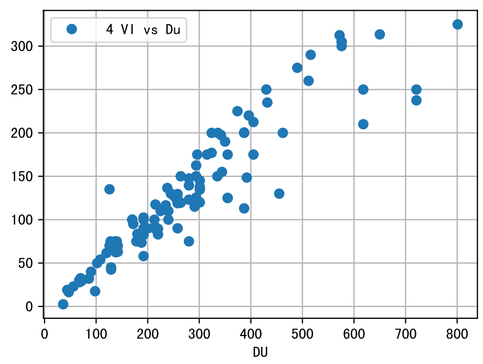

3 OIR
d

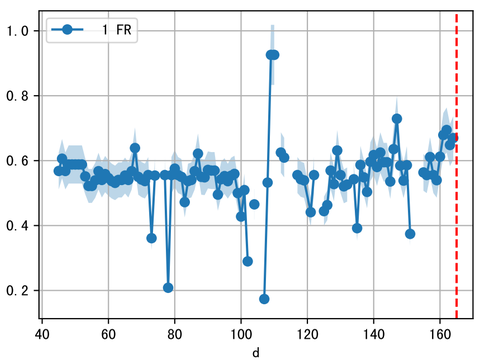

4 OIR
d

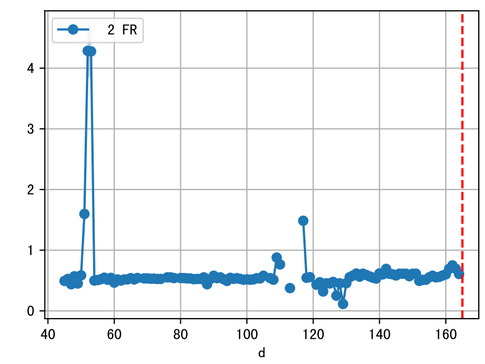

1 VI vs Du
DU

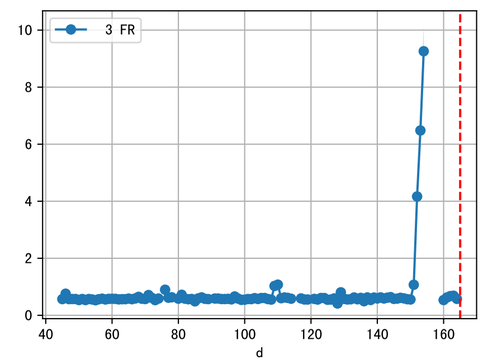

2 VI vs Du
DU

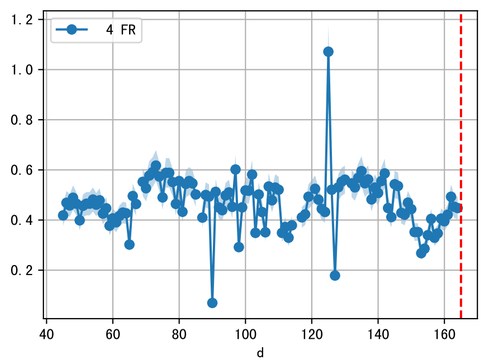

3 VI vs Du
DU

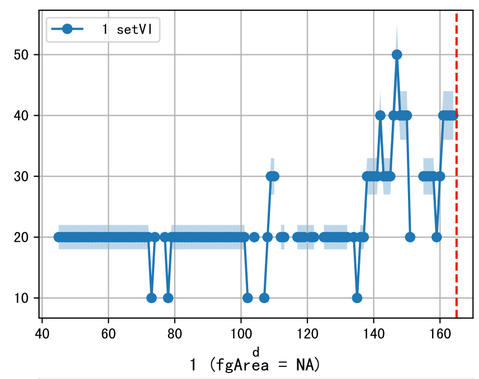

4 VI vs Du
DU

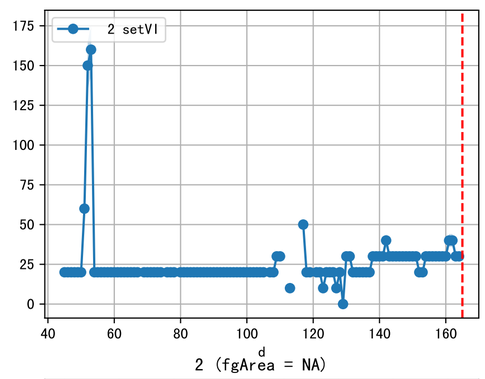

1 FR
d

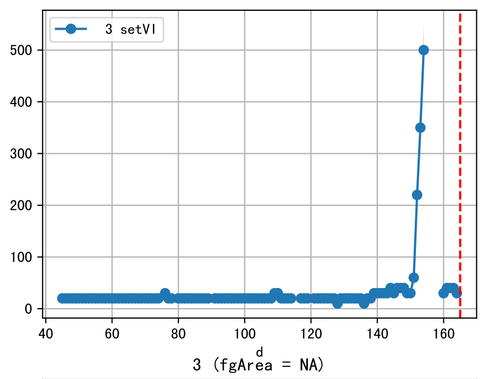

2 FR
d

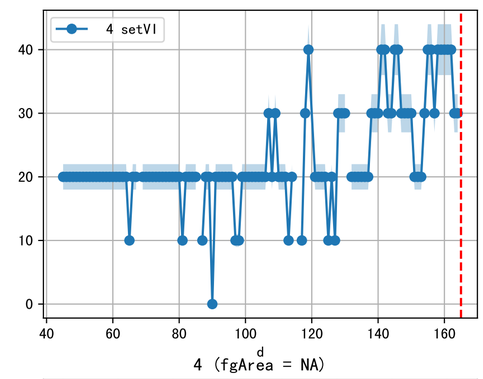

3 FR
d

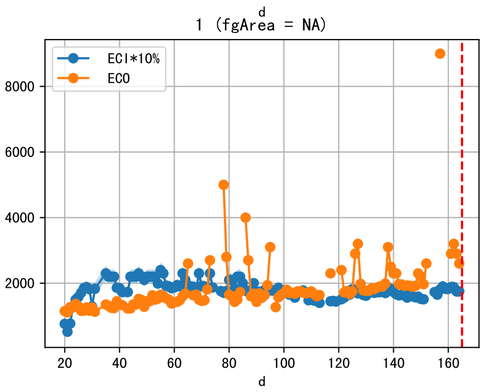

4 FR
d

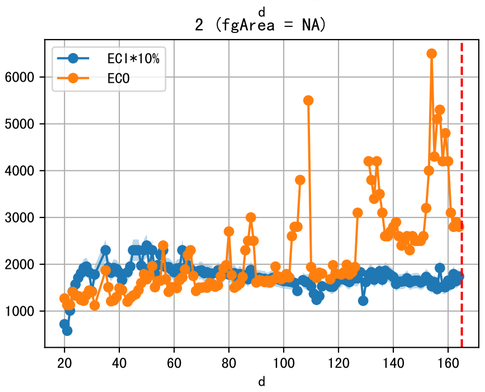

1 setVI
d

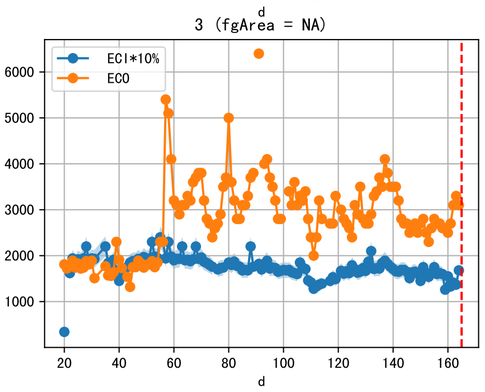

2 setVI
d

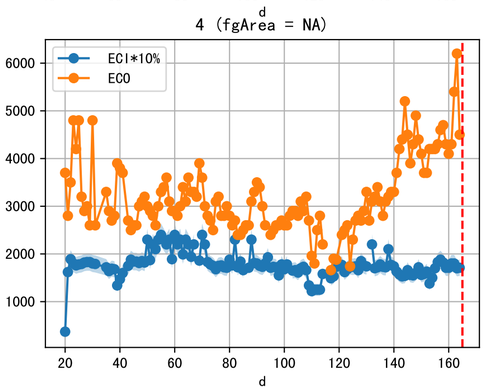

3 setVI
d

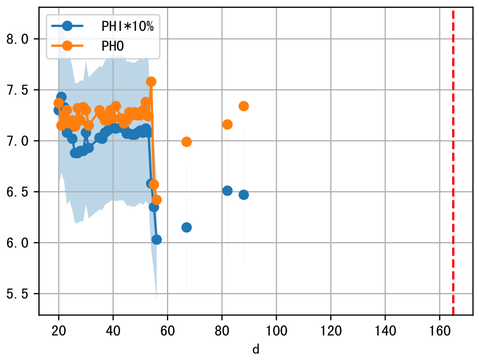

4 setVI
d

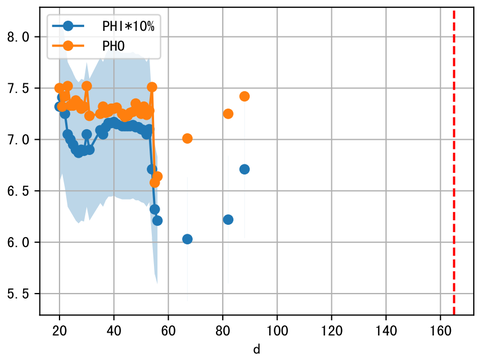

1 (fgArea = NA)
ECI*10%
ECO
d

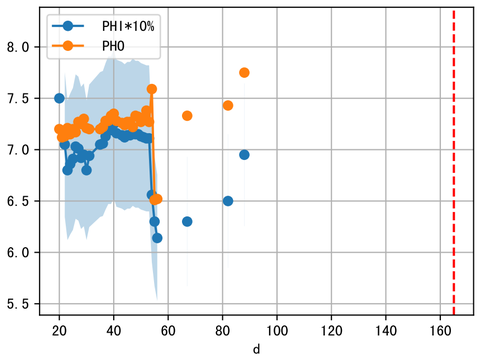

2 (fgArea = NA)
ECI*10%
ECO
d

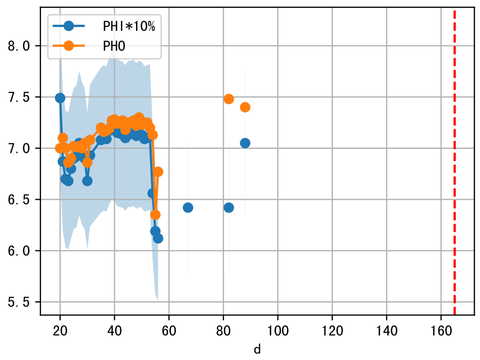

3 (fgArea = NA)
ECI*10%
ECO
d

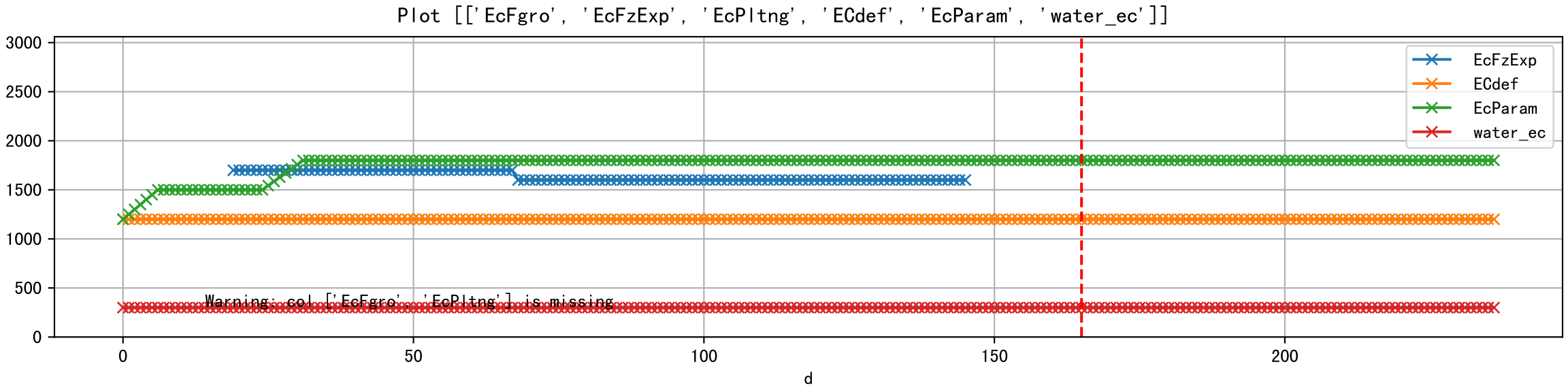

4 (fgArea = NA)
ECI*10%
ECO
d

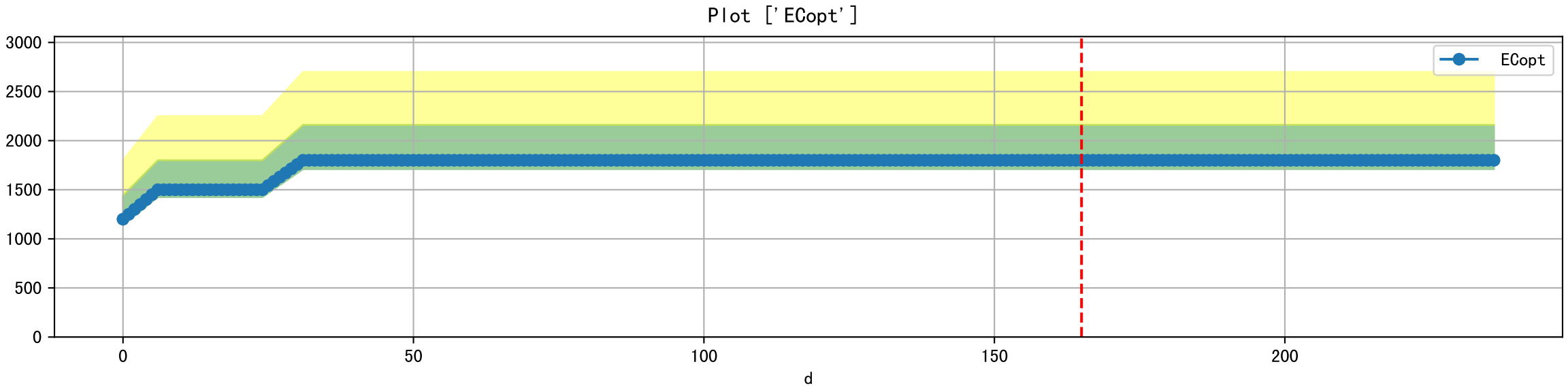

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

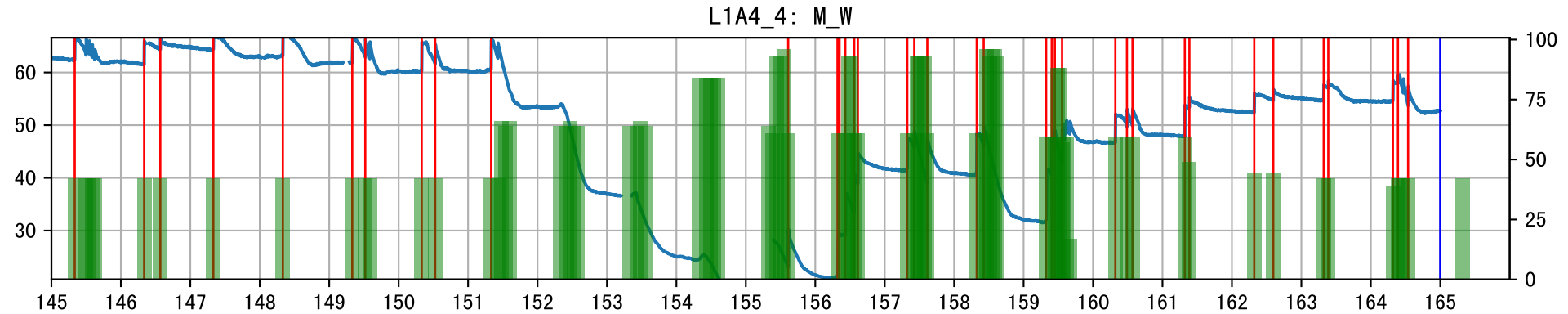

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d


PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

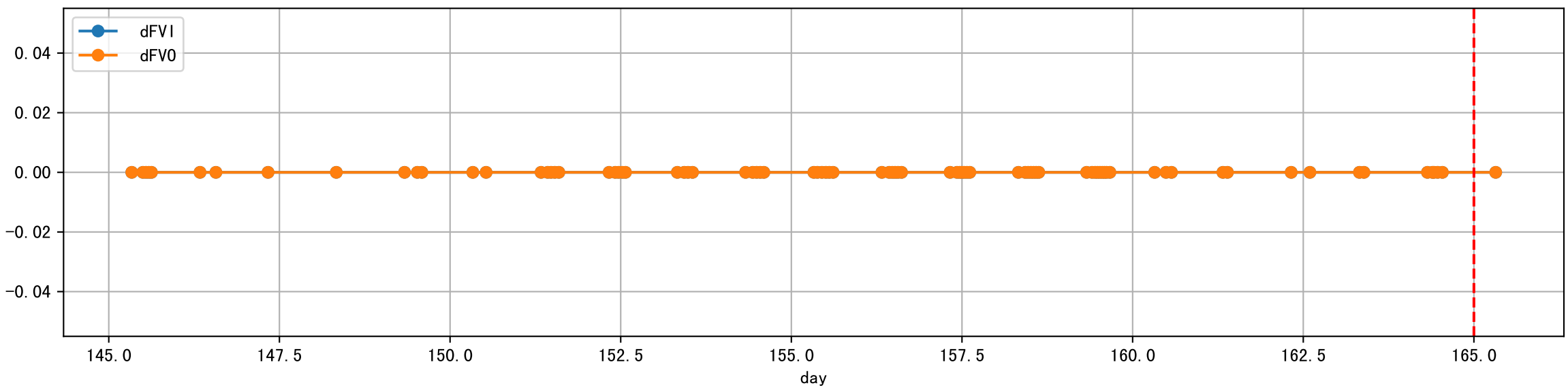

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

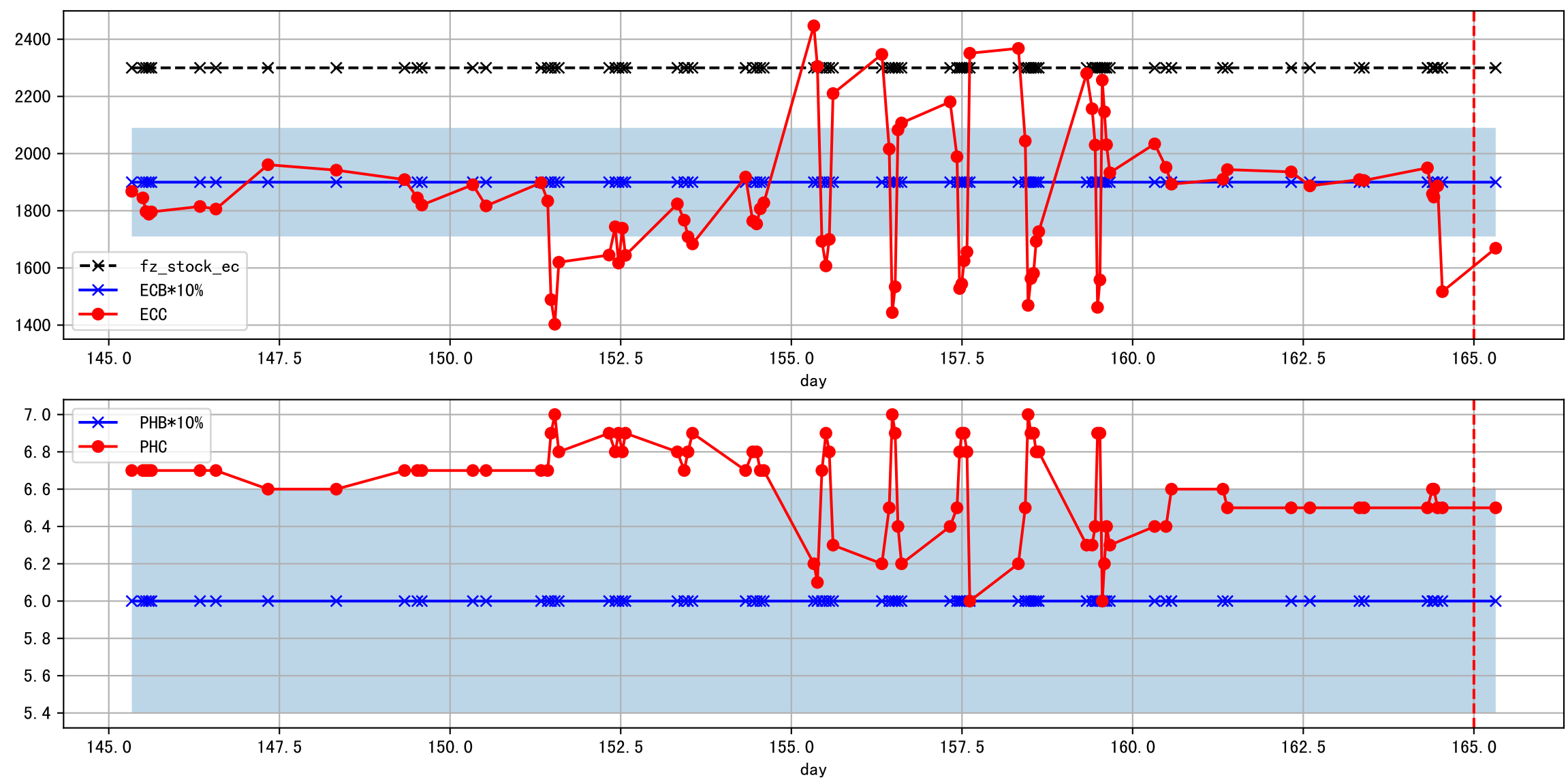

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
EcFzExp
ECdef
EcParam
water_ec
Warning: col ['EcFgro', 'EcPltng'] is missing
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

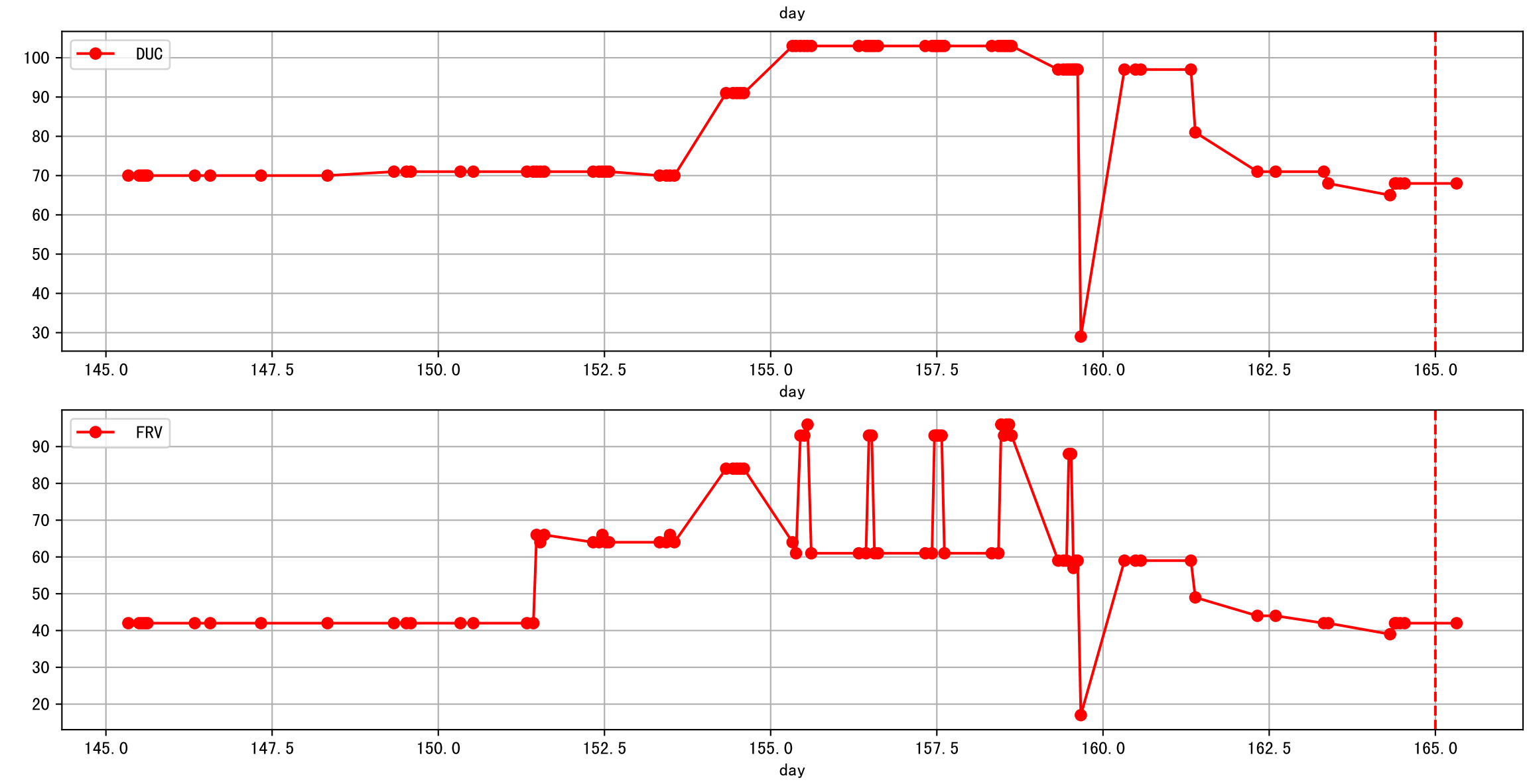

Plot ['ECopt']
ECopt
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

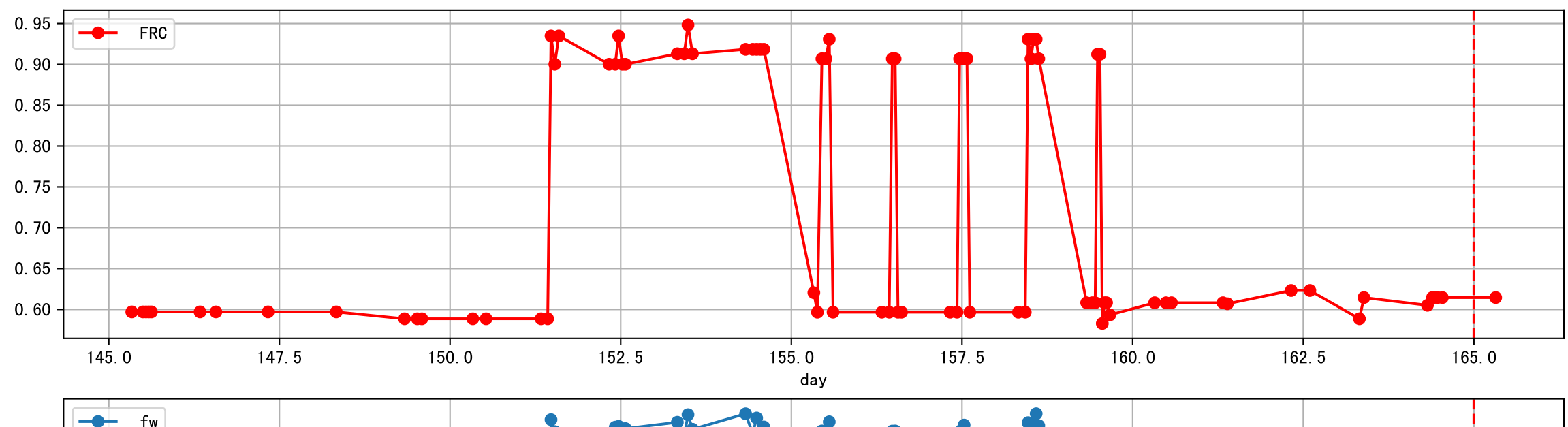

L1A4_4: M_W
60
50
40
30
100
75
50
25
0
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165

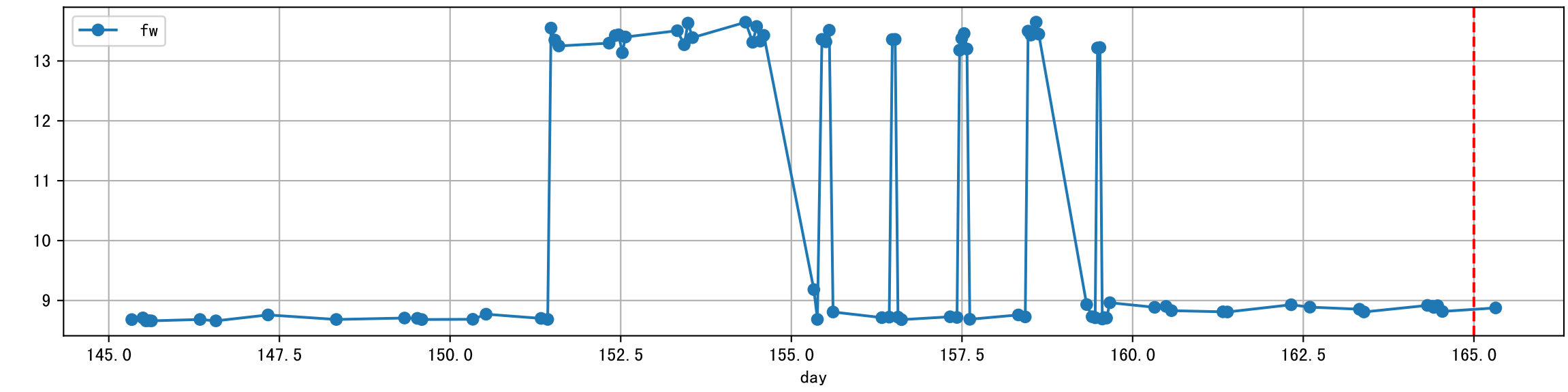
Plot Sensor and FgRec Data

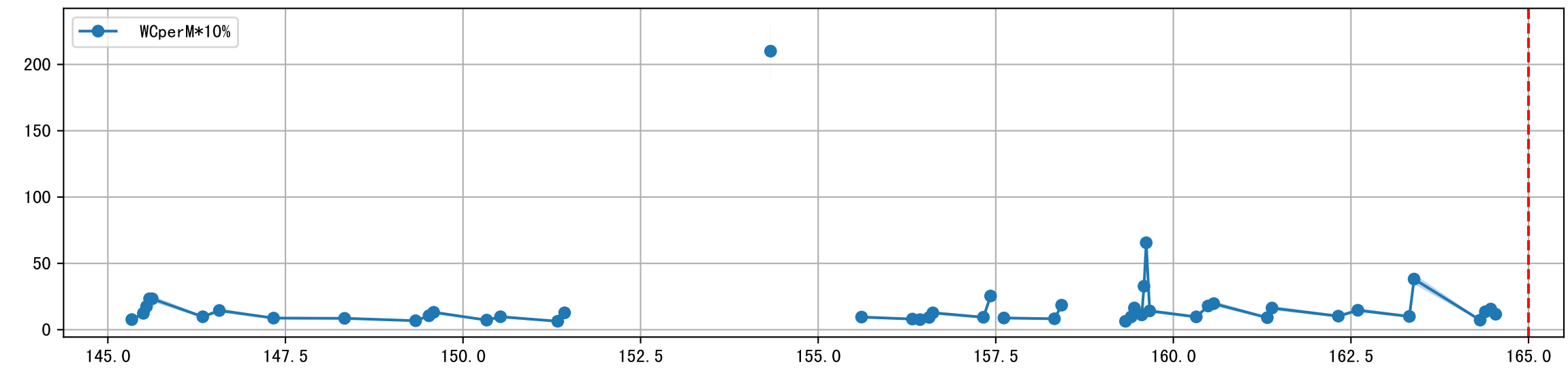


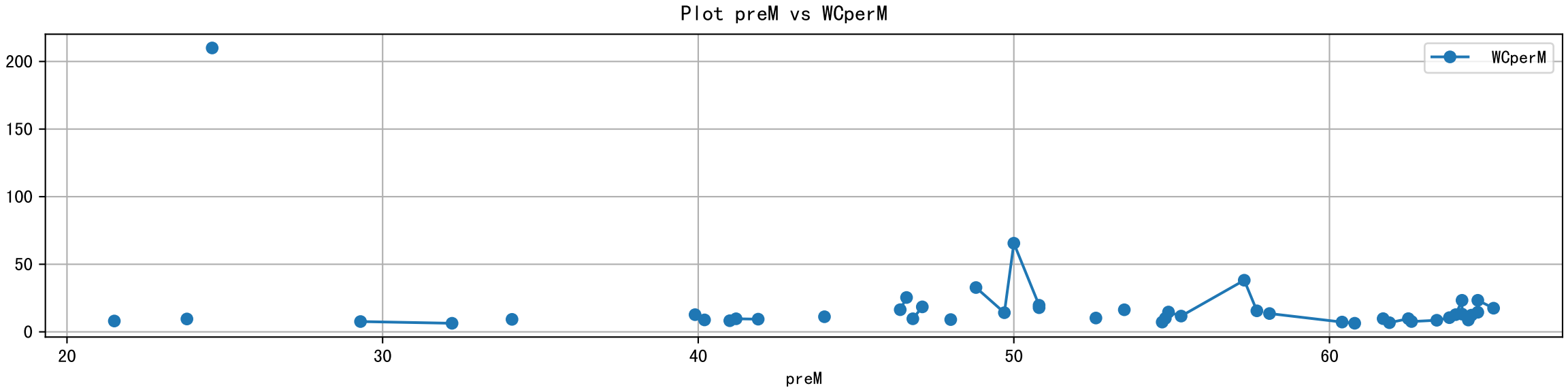


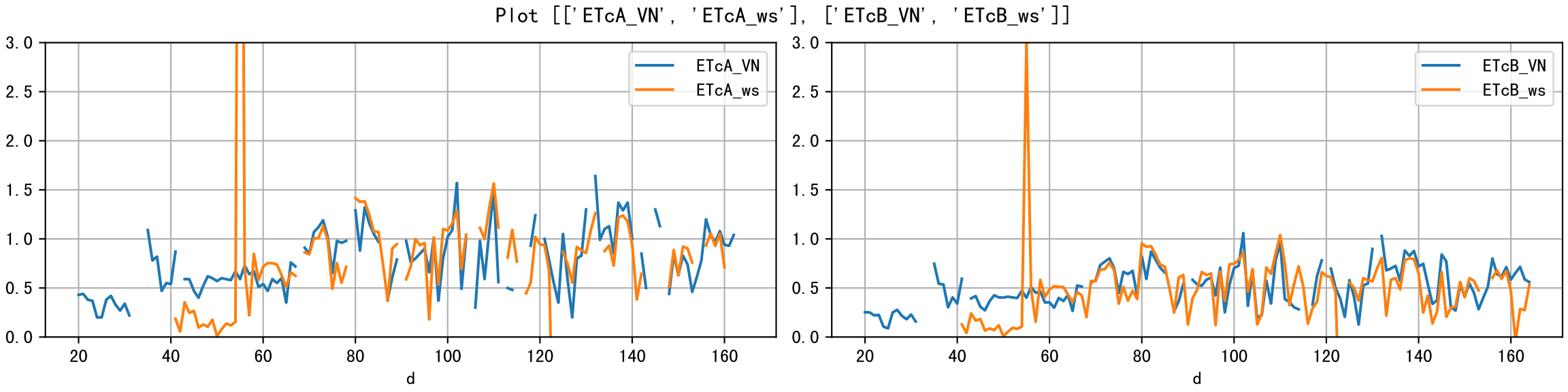


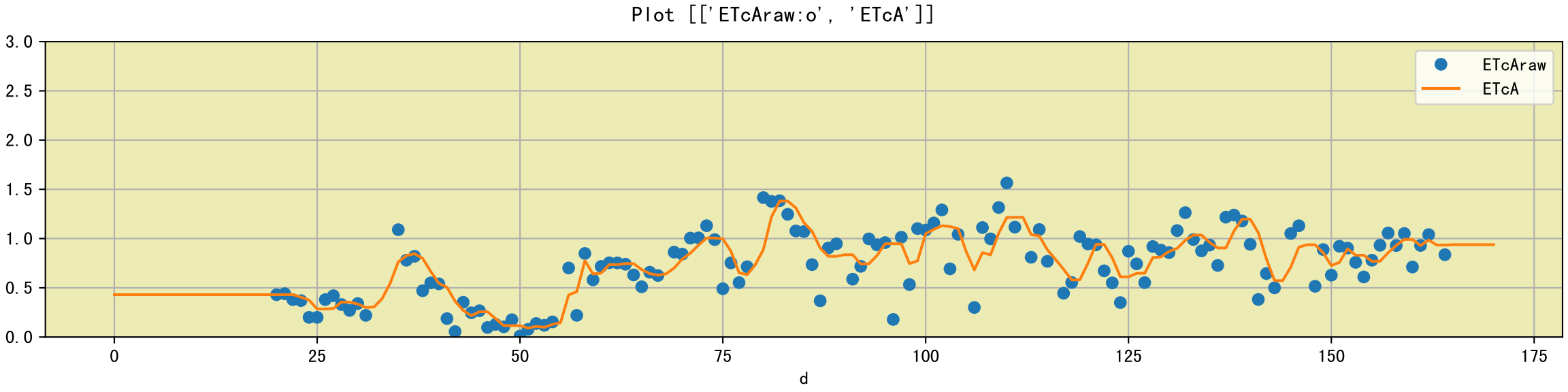


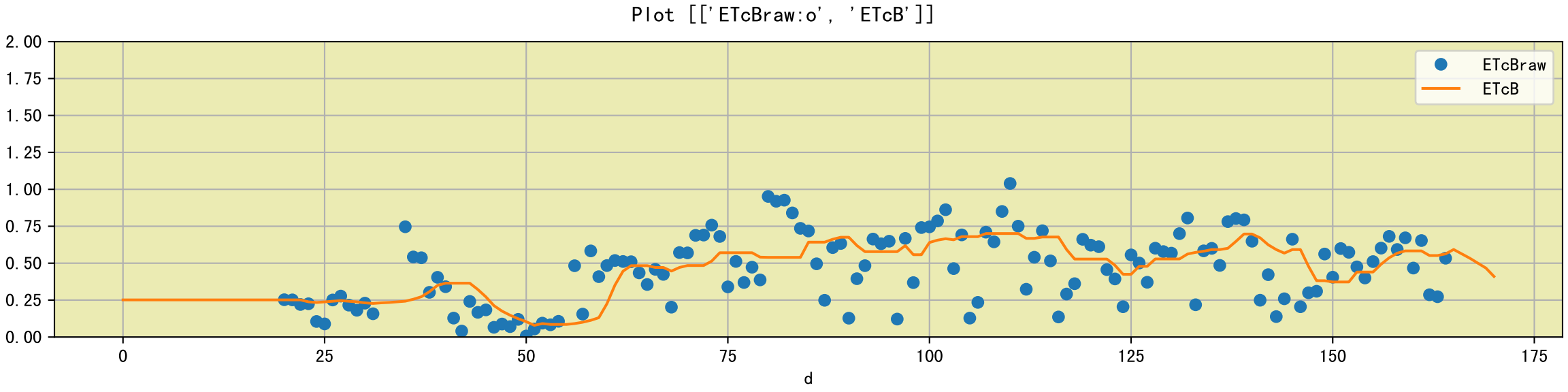




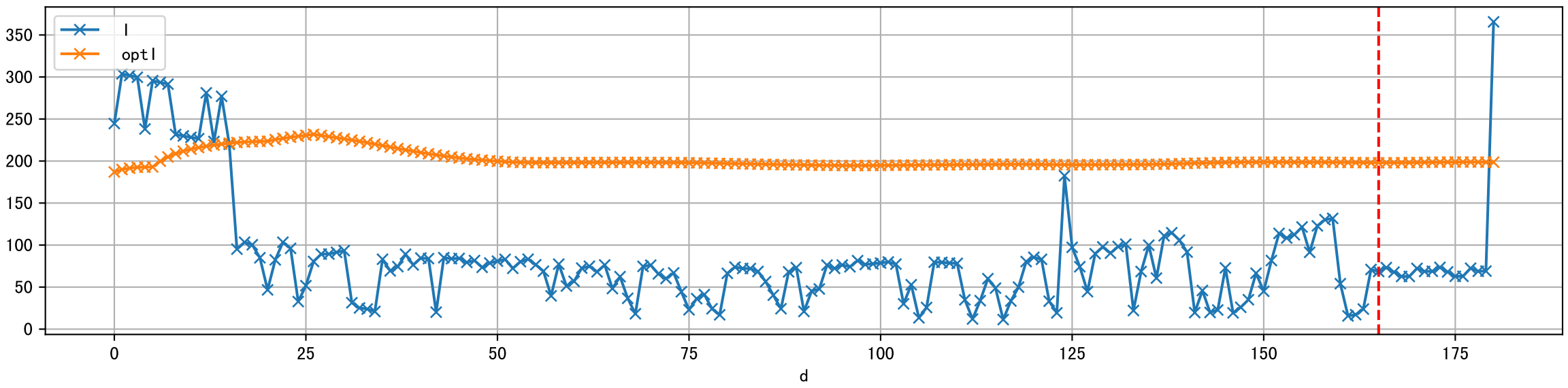

Plot preM vs WCperM
WCperM
200
150
100
50
0
20
30
40
50
60
preM

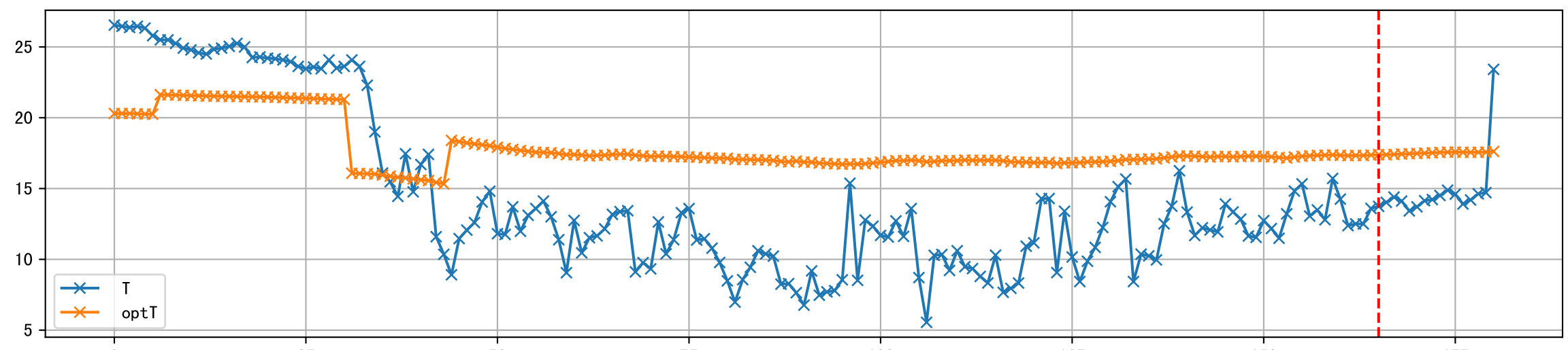

Plot [['ETcA_VN', 'ETcA_ws'], ['ETcB_VN', 'ETcB_ws']]
ETcA_VN
ETcA_ws
ETcB_VN
ETcB_ws
d
d
3.0
2.5
2.0
1.5
1.0
0.5
0.0
20
40
60
80
100
120
140
160

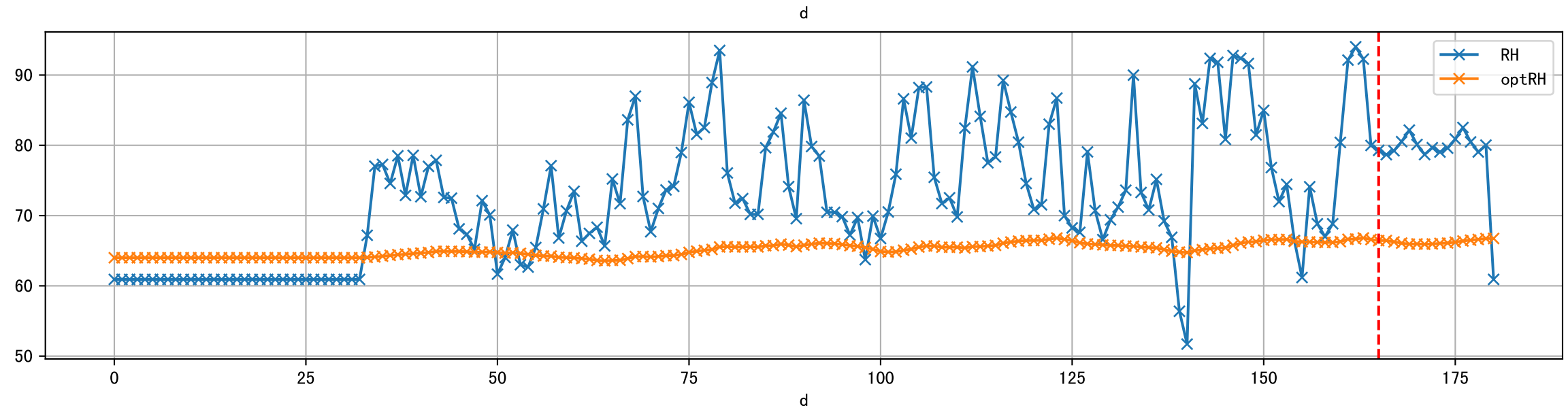

Plot [['ETcAraw:o', 'ETcA']]
ETcAraw
ETcA
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
25
50
75
100
125
150
175
d

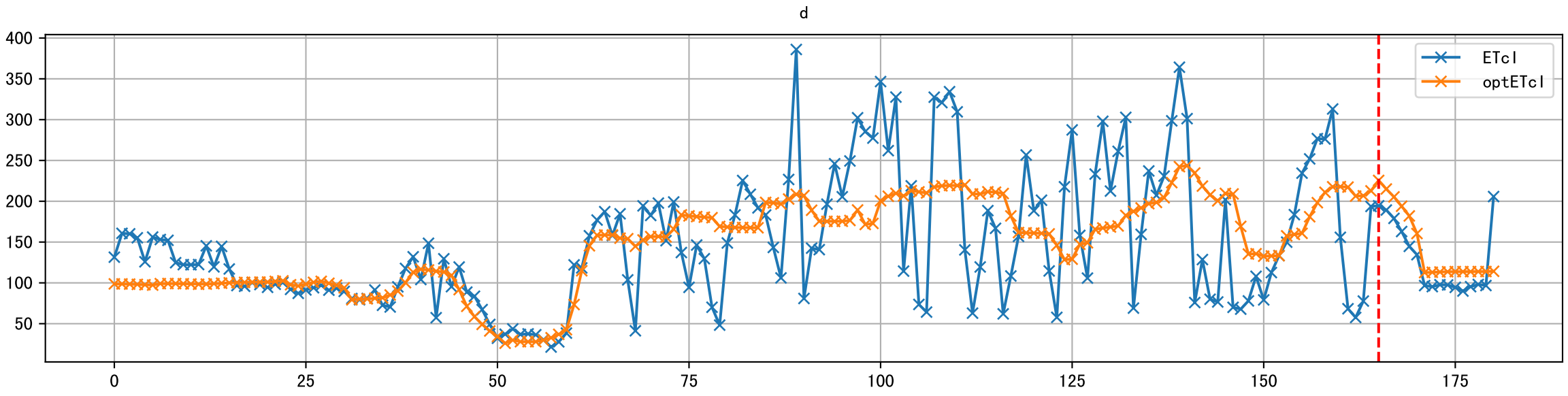

Plot [['ETcBraw:o', 'ETcB']]
ETcBraw
ETcB
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
0
25
50
75
100
125
150
175
d

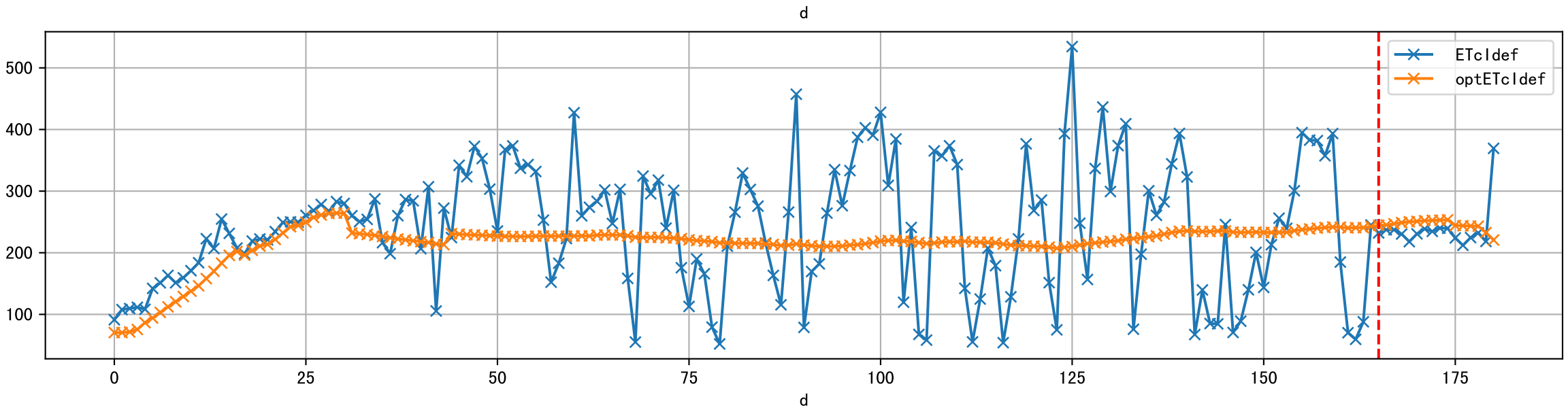
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['ETo', 'optETo'], 'LAI', ['optEtRate', 'optEtRateDef', '

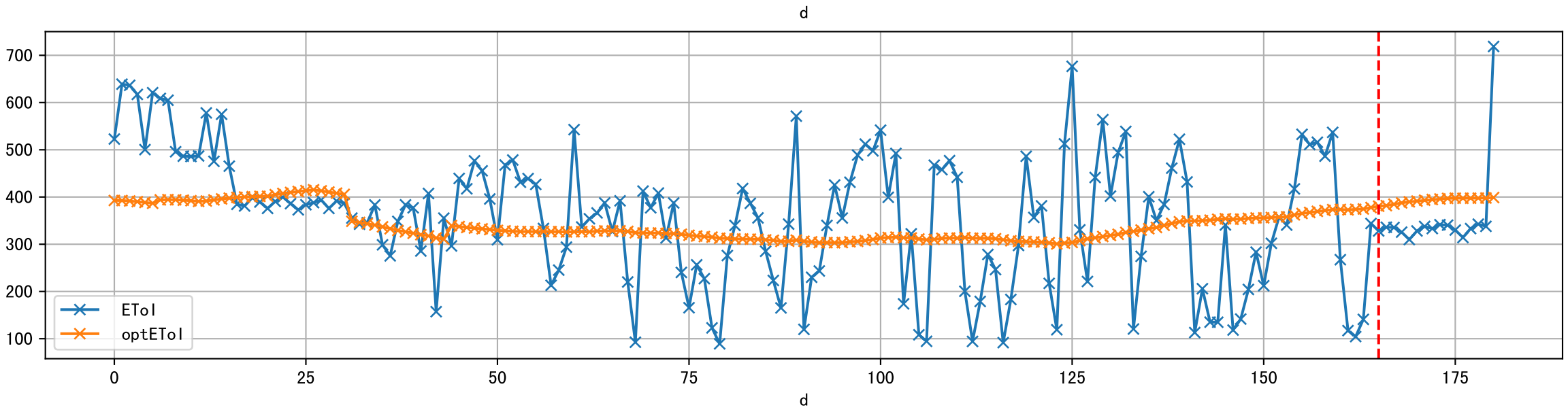


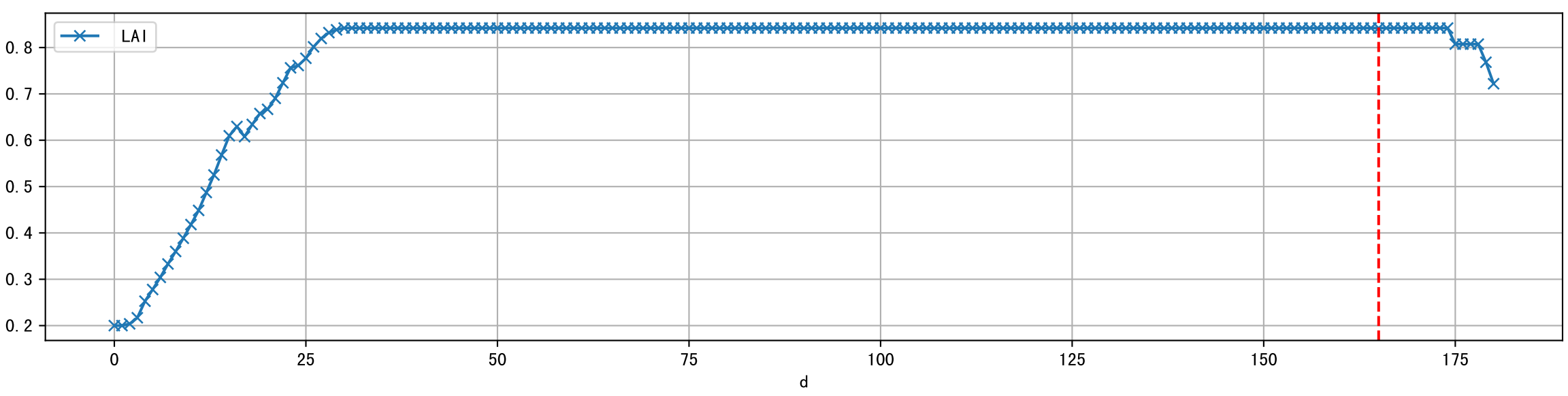


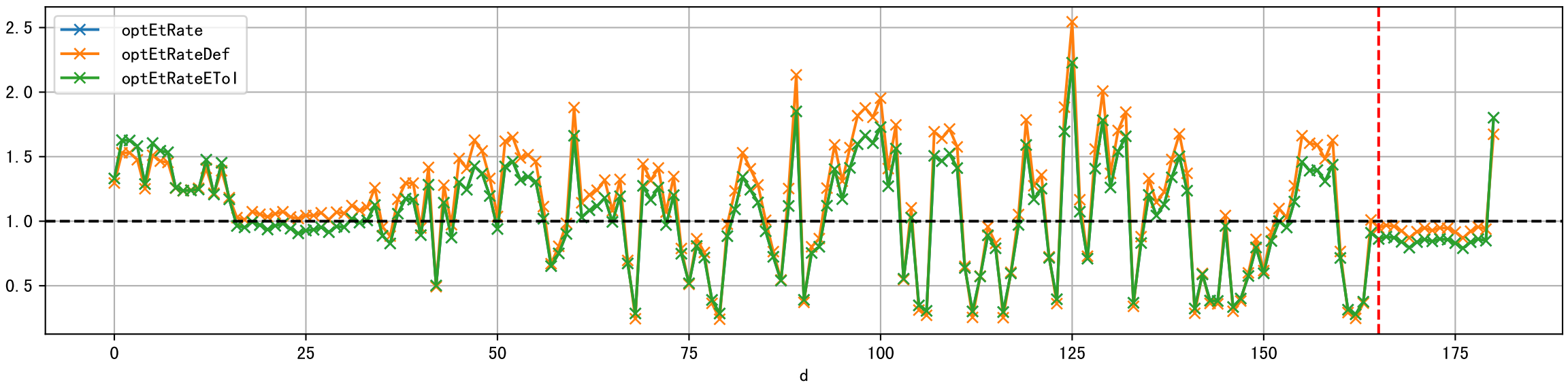


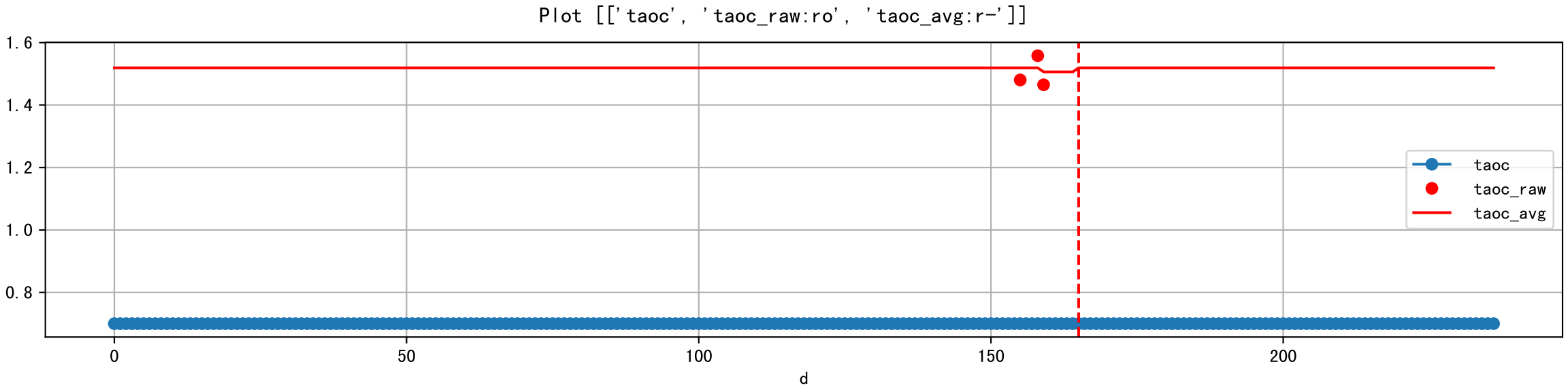


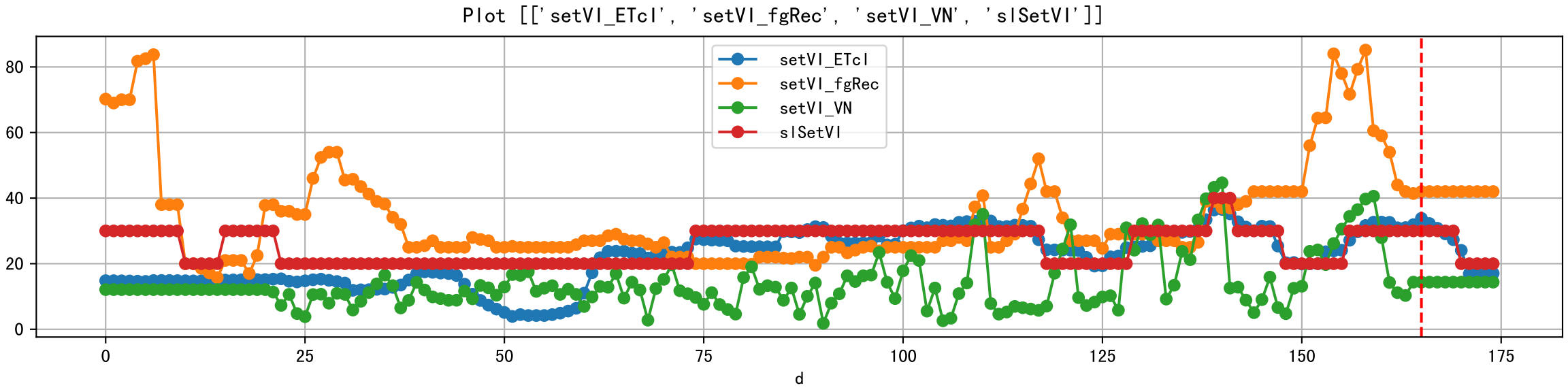


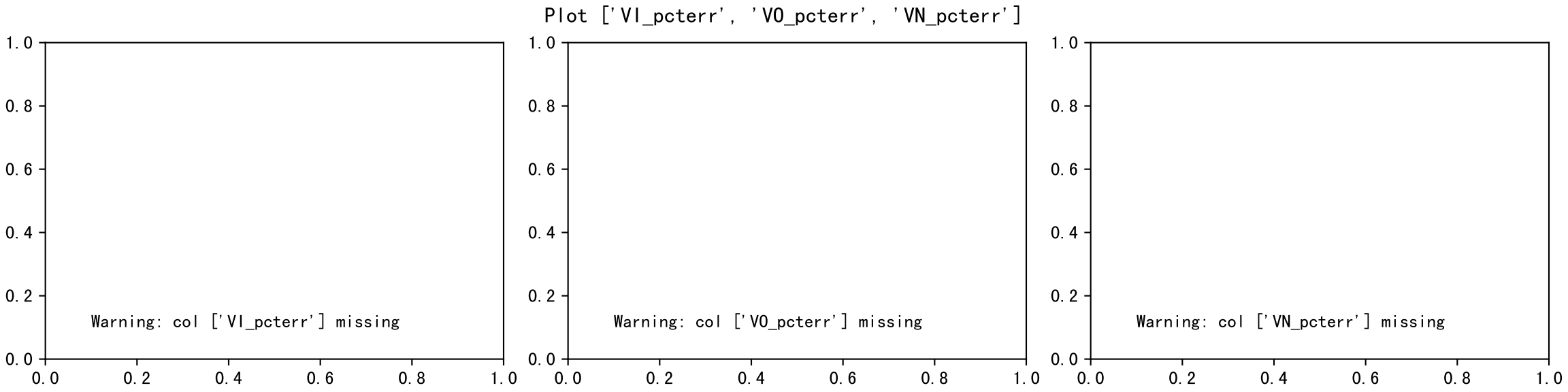


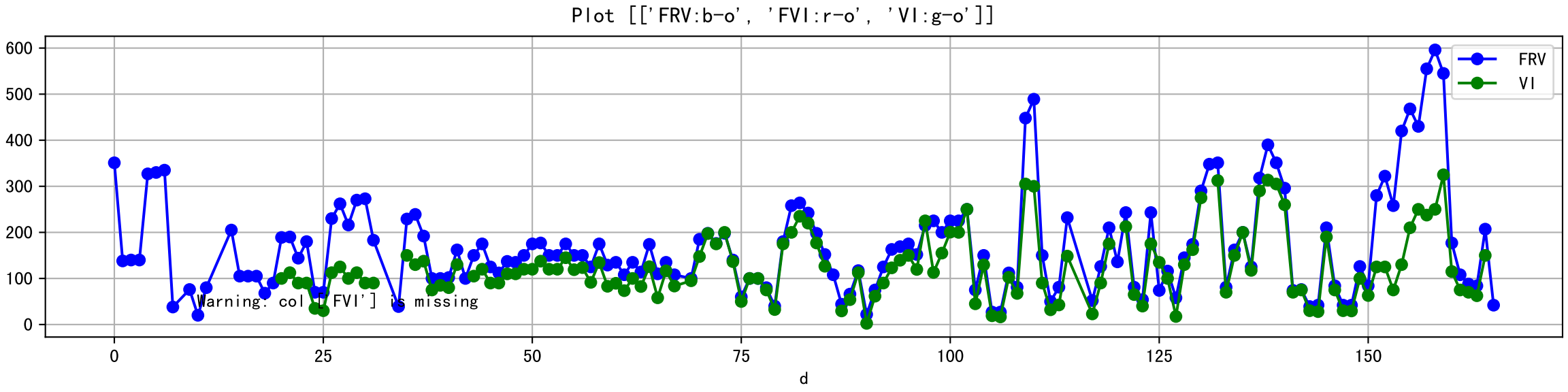


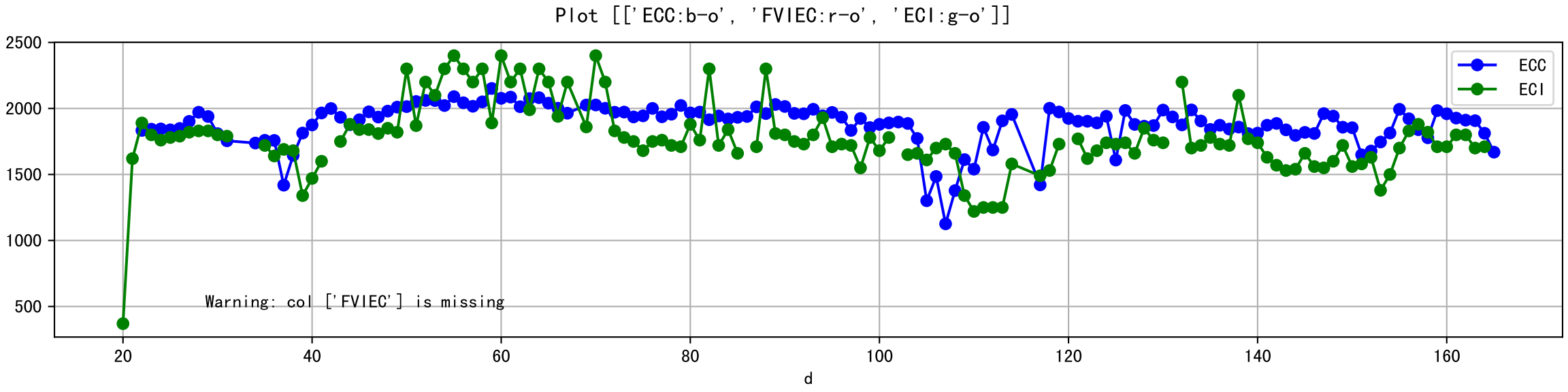


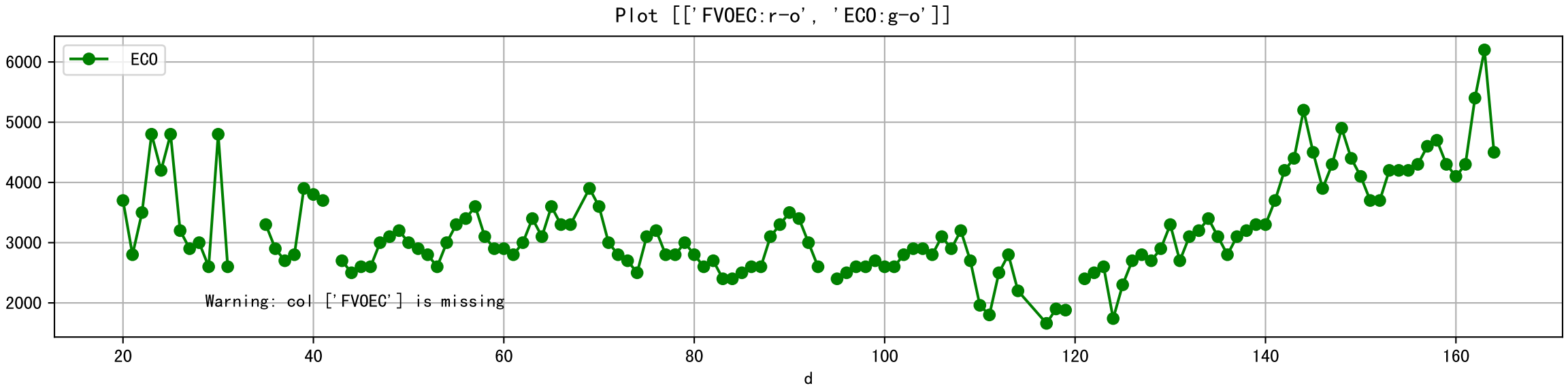

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
1.6
1.4
1.2
1.0
0.8
0
50
100
150
200
d
taoc
taoc_raw
taoc_avg

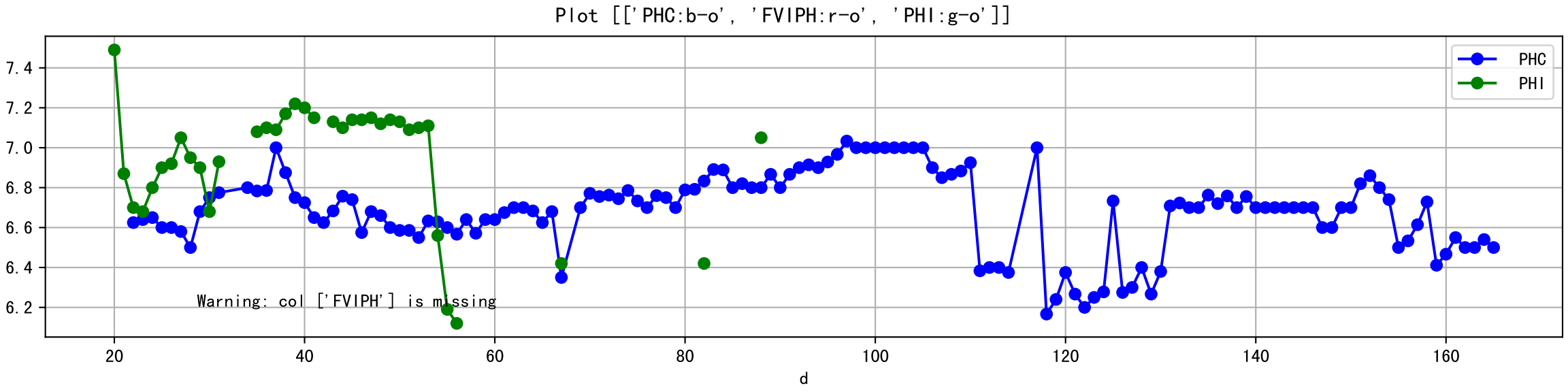

Plot [['setVI_ETcl', 'setVI_fgRec', 'setVI_VN', 'slSetVI']]
setVI_ETcl
setVI_fgRec
setVI_VN
slSetVI
0
20
40
60
80
0
25
50
75
100
125
150
175
d

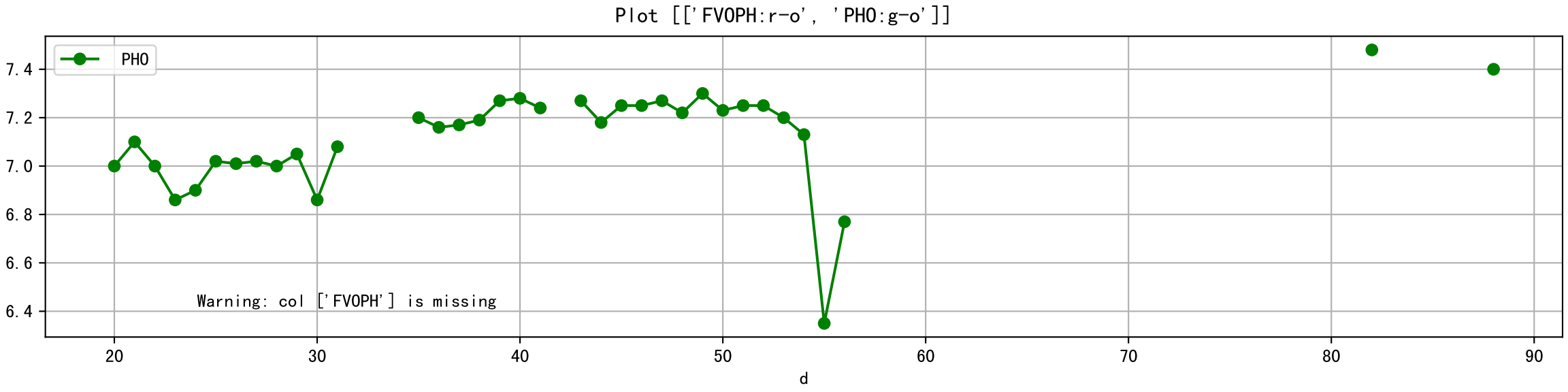

Plot ['VI_pcterr', 'VO_pcterr', 'VN_pcterr']
Warning: col ['VI_pcterr'] missing
Warning: col ['VO_pcterr'] missing
Warning: col ['VN_pcterr'] missing
0.0
0.2
0.4
0.6
0.8
1.0

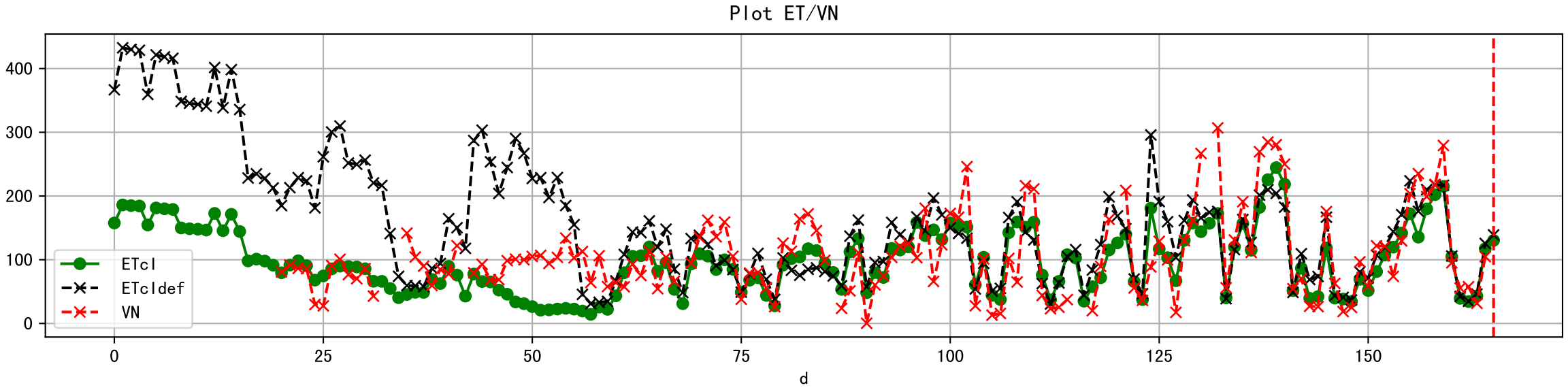

Plot [['FRV:b-o', 'FVI:r-o', 'VI:g-o']]
Warning: col ['FVI'] is missing
FRV
VI
d
0
25
50
75
100
125
150
0
100
200
300
400
500
600


Plot [['ECC:b-o', 'FVIEC:r-o', 'ECI:g-o']]
2500
2000
1500
1000
500
20
40
60
80
100
120
140
160
d
ECC
ECI
Warning: col ['FVIEC'] is missing

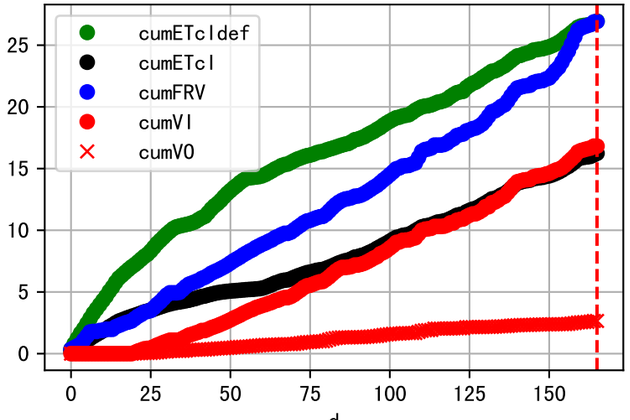

Plot [['FVOEC:r-o', 'ECO:g-o']]
ECO
Warning: col ['FVOEC'] is missing
6000
5000
4000
3000
2000
20
40
60
80
100
120
140
160
d

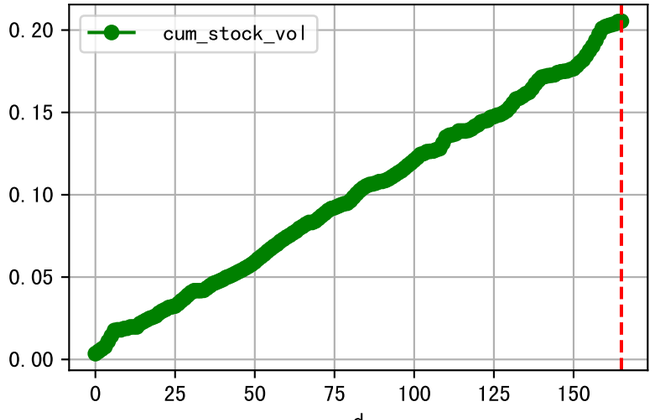

Plot [['PHC:b-o', 'FVIPH:r-o', 'PHI:g-o']]
PHC
PHI
Warning: col ['FVIPH'] is missing
7.4
7.2
7.0
6.8
6.6
6.4
6.2
20
40
60
80
100
120
140
160
d

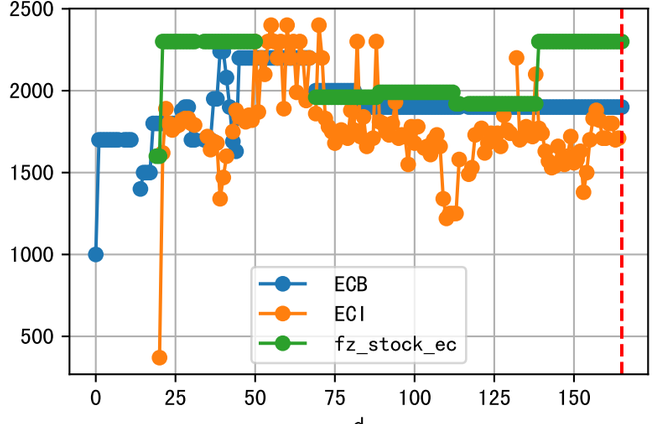

Plot [['FVOPH:r-o', 'PHO:g-o']]
PHO
7.4
7.2
7.0
6.8
6.6
6.4
Warning: col ['FVOPH'] is missing
20
30
40
50
60
70
80
90
d

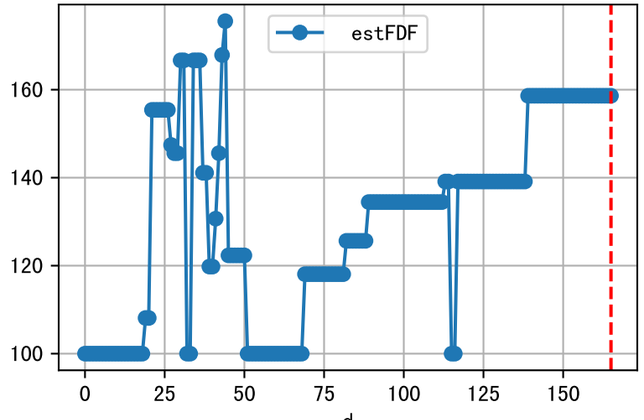

Plot ET/VN
ETcl
ETcldef
VN
400
300
200
100
0
0
25
50
75
100
125
150
d

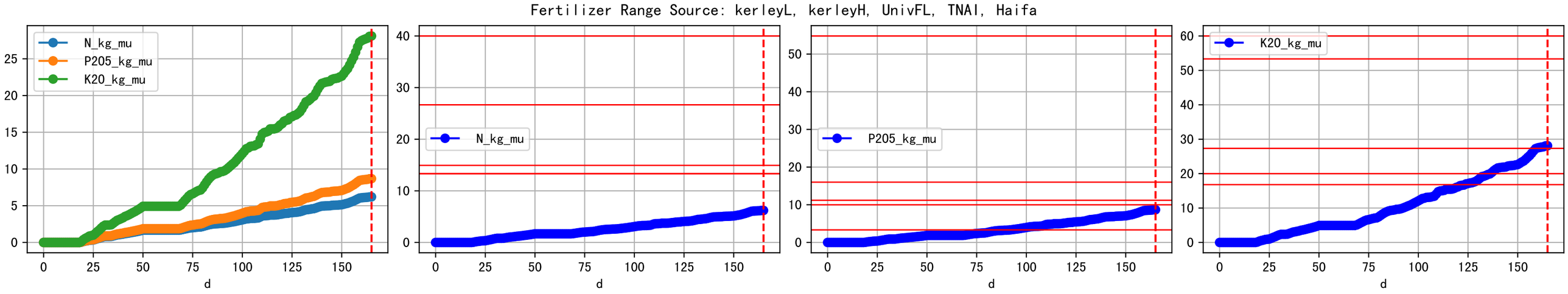
Plot Fv and fertilizer usage

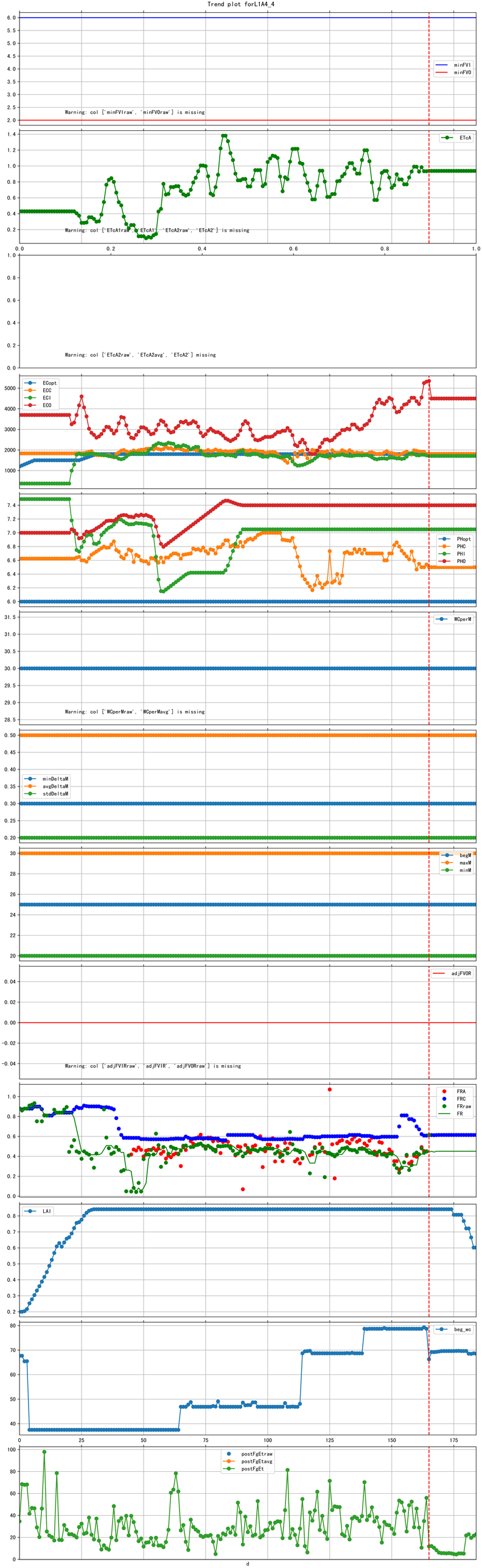


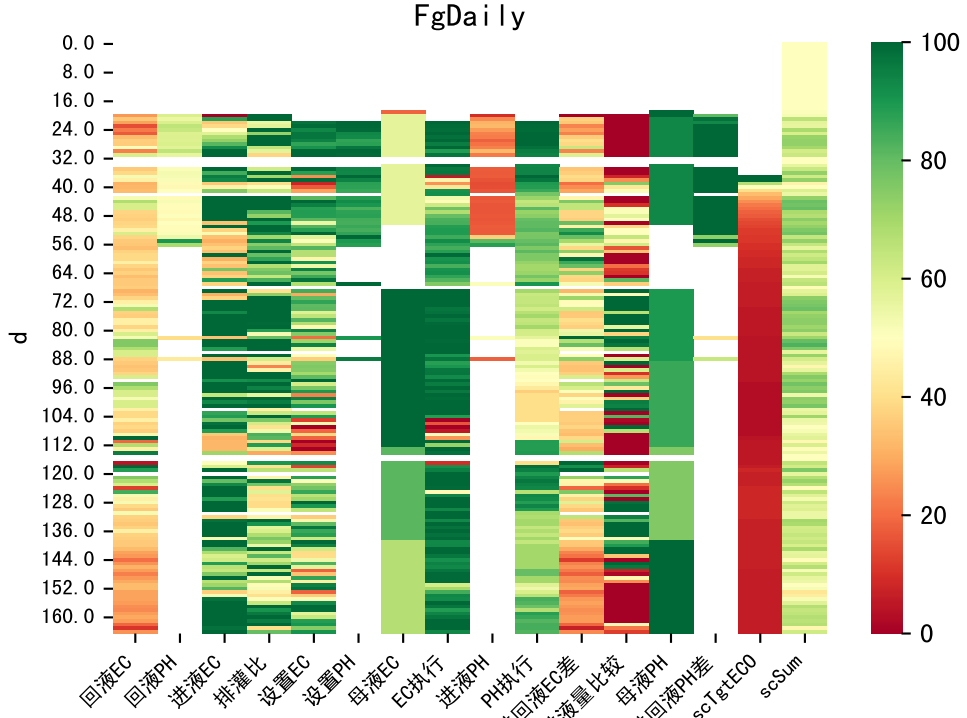




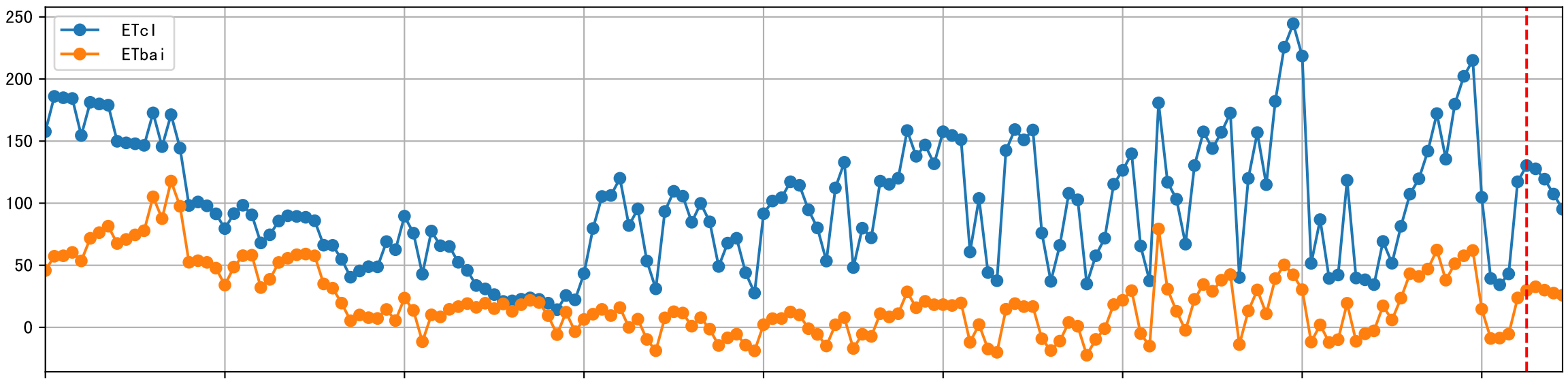


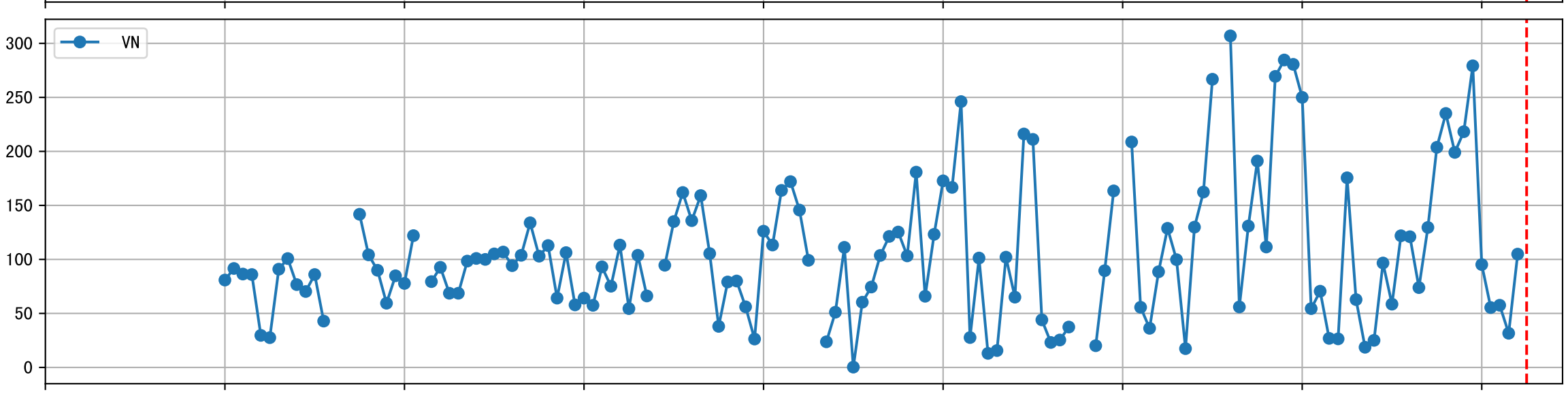

Fertilizer Range Source: kerleyL, kerleyH, UnivFL, TNAI, Haifa
N_kg_mu
P205_kg_mu
K20_kg_mu
d

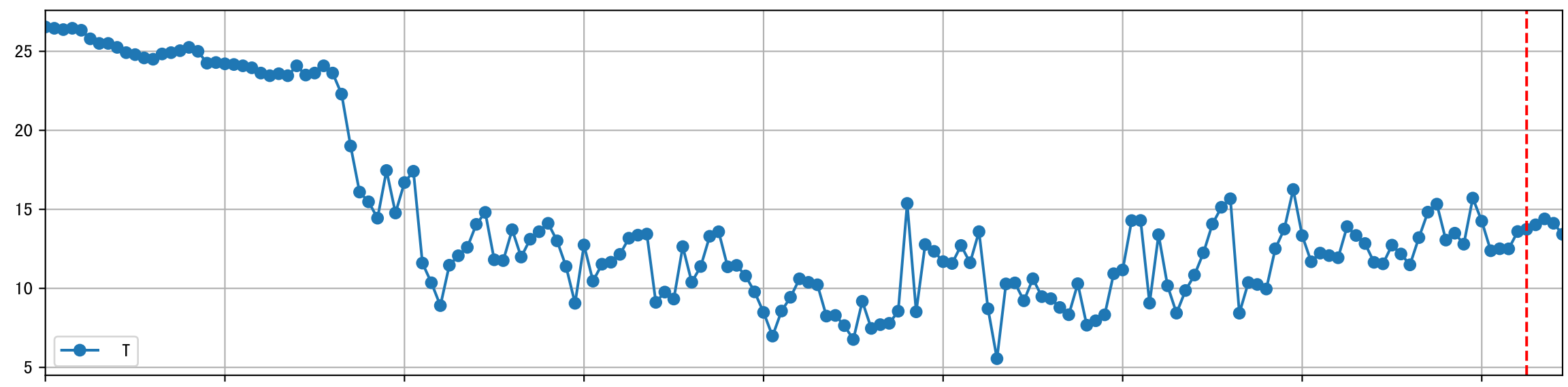

Trend plot forL1A4_4
minFVI
minFVO
Warning: col ['minFVIraw', 'minFVOraw'] is missing
ETcA
Warning: col ['ETcA1raw', 'ETcA1', 'ETcA2raw', 'ETcA2'] is missing
Warning: col ['ETcA2raw', 'ETcA2avg', 'ETcA2'] is missing
ECopt
ECC
ECI
ECD
PHopt
PHC
PHI
PHD
WCperM
Warning: col ['WCperMraw', 'WCperMavg'] is missing
minDeltaM
avgDeltaM
stdDeltaM
begM
maxM
minM
adjFVOR
Warning: col ['adjFVIRraw', 'adjFVIR', 'adjFVORraw'] is missing
FRA
FRC
FRraw
FR
LAI
beg_wc
postFgEtraw
postFgEtavg
postFgEt
d

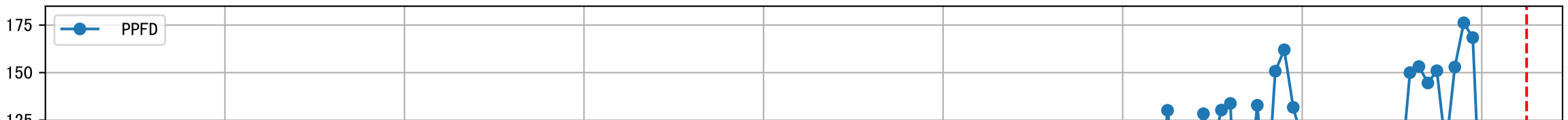

FgDaily
d
0.0
8.0
16.0
24.0
32.0
40.0
48.0
56.0
64.0
72.0
80.0
88.0
96.0
104.0
112.0
120.0
128.0
136.0
144.0
152.0
160.0
100
80
60
40
20
0
回液EC
回液PH
进液EC
排灌比
设置EC
设置PH
母液EC
EC执行
进液PH
PH执行
回液EC差
液量比较
母液PH
回液PH差
scTgtEC0
scSum

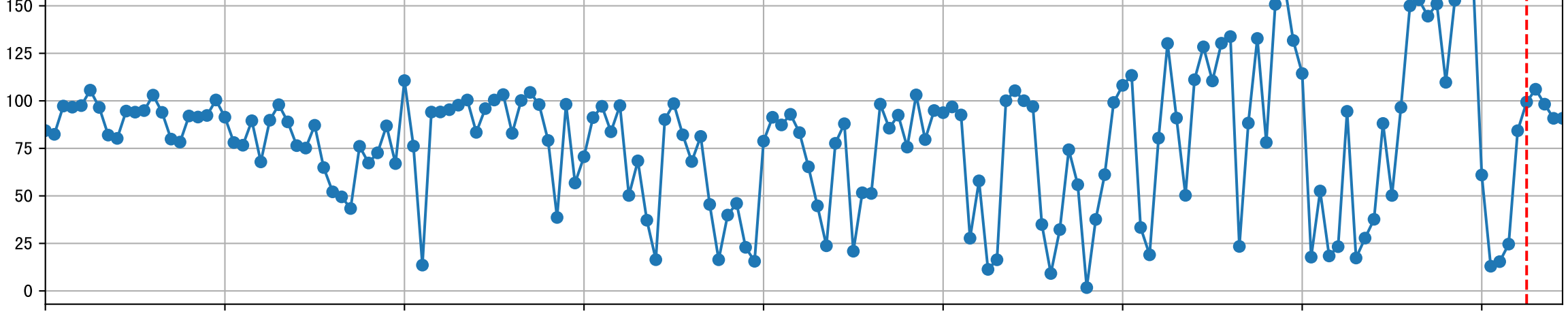
L1A4_4

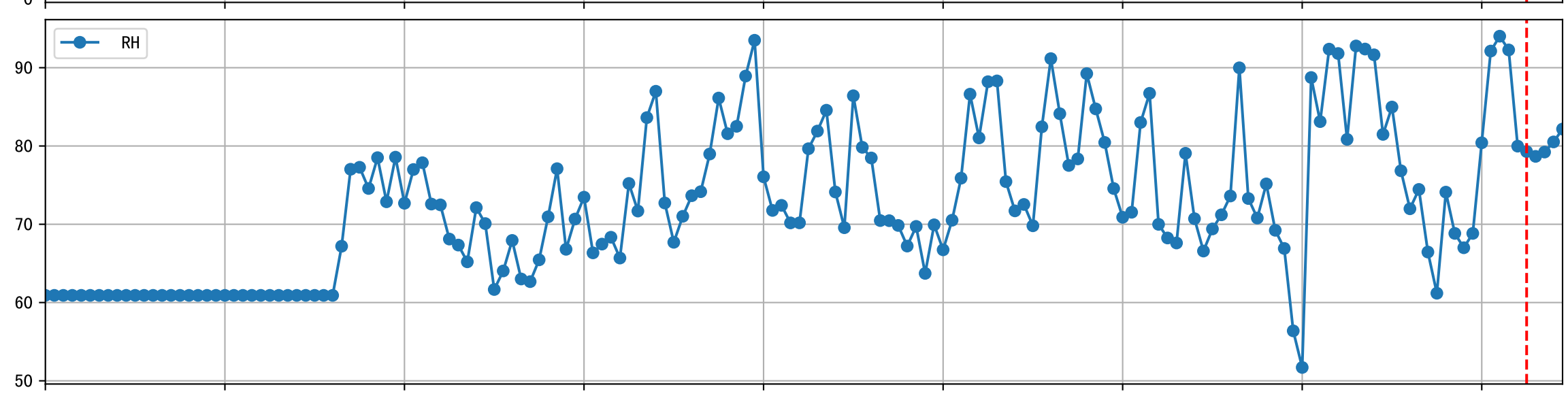


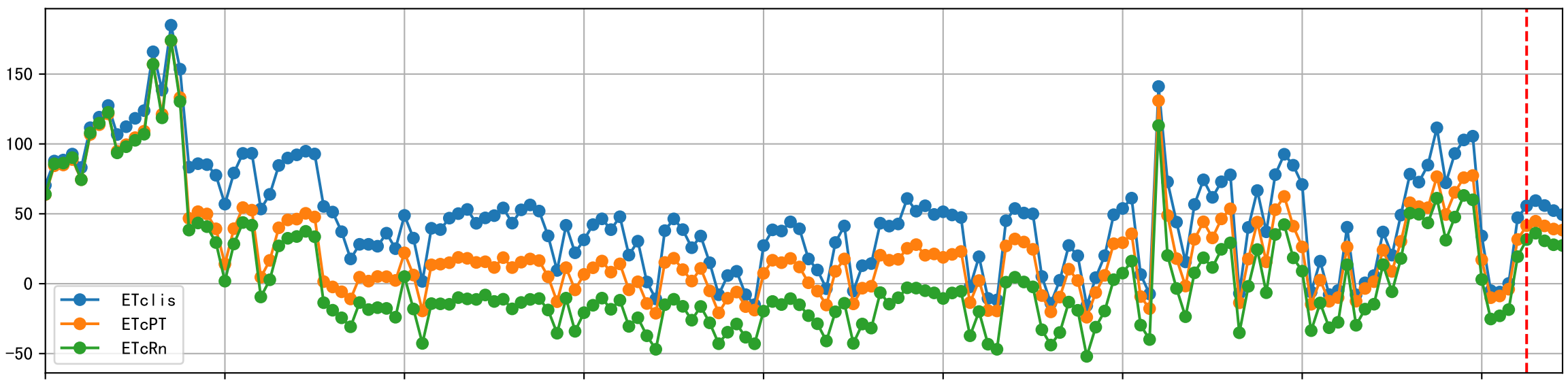




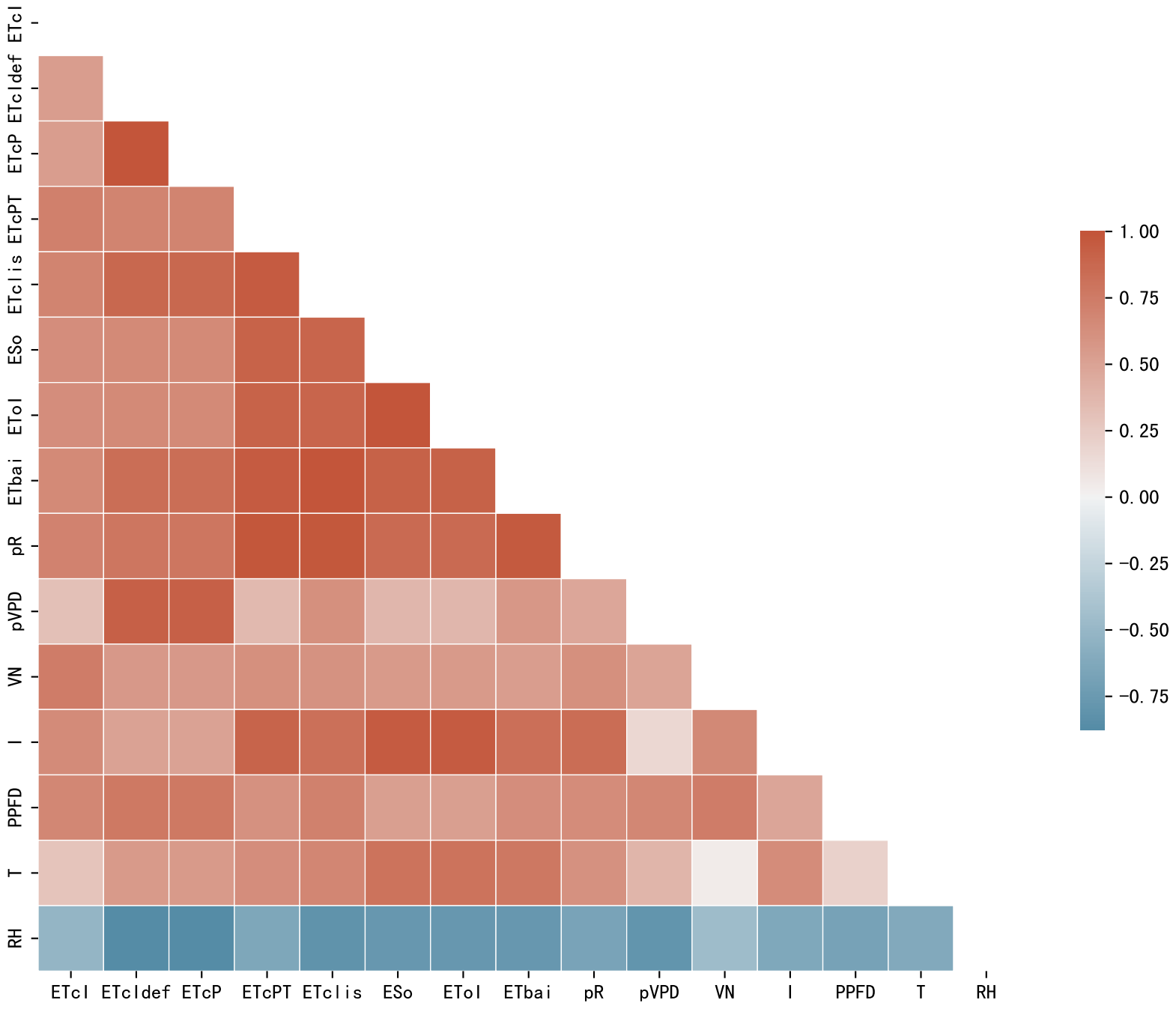


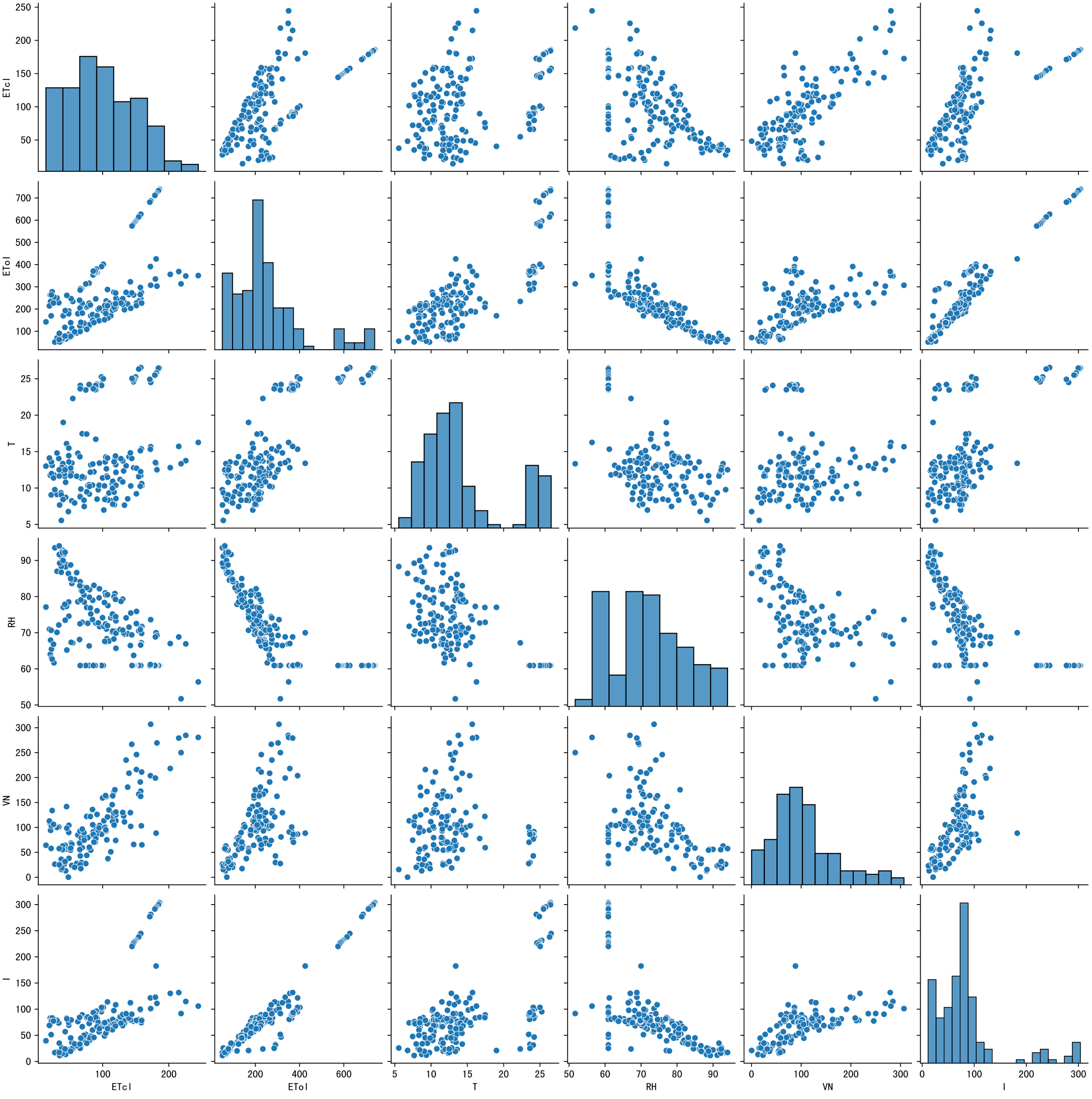


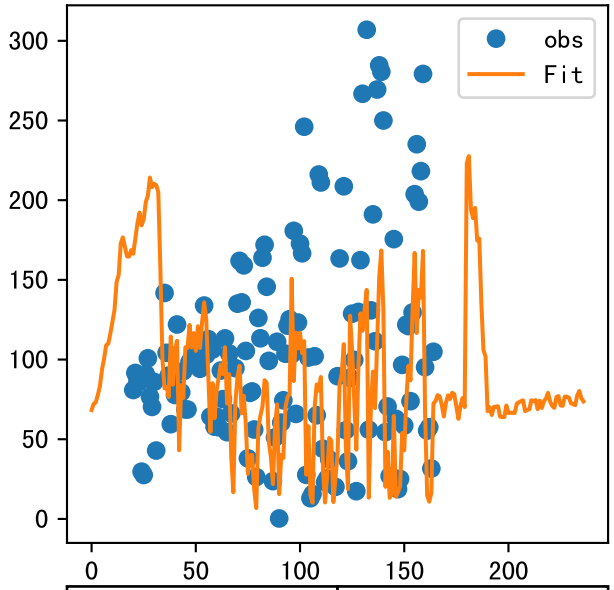


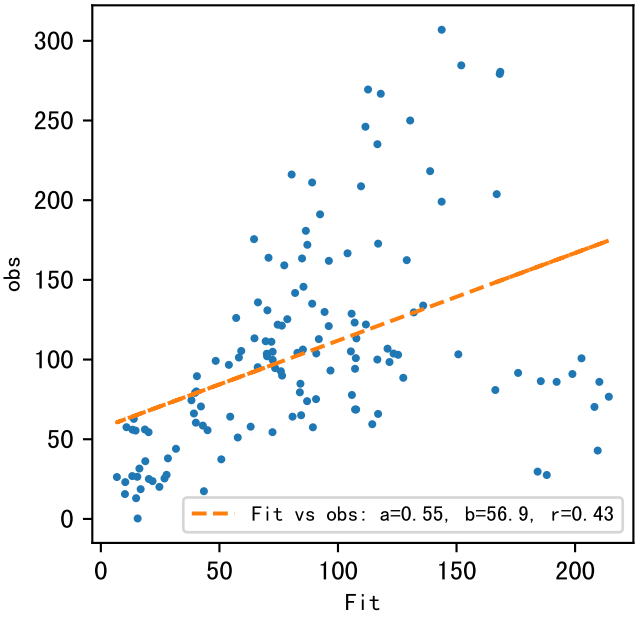


d

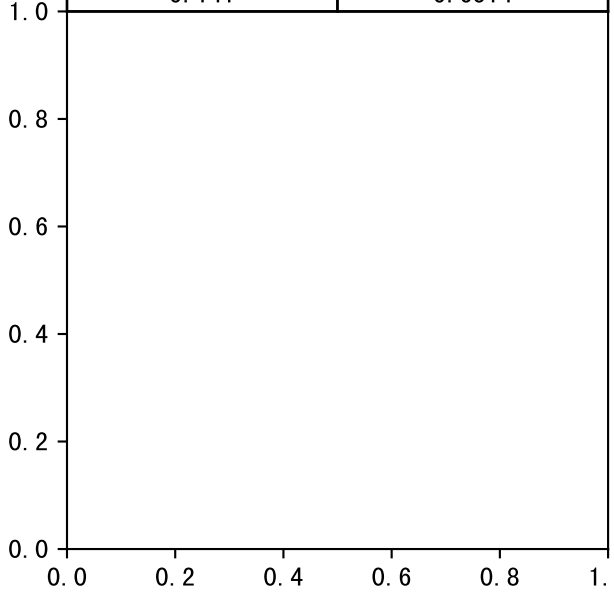

ETcl
ETcldef
ETcP
ETcPT
ETclis
ESo
ETol
ETbai
pR
pVPD
VN
I
PPFD
T
RH
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75

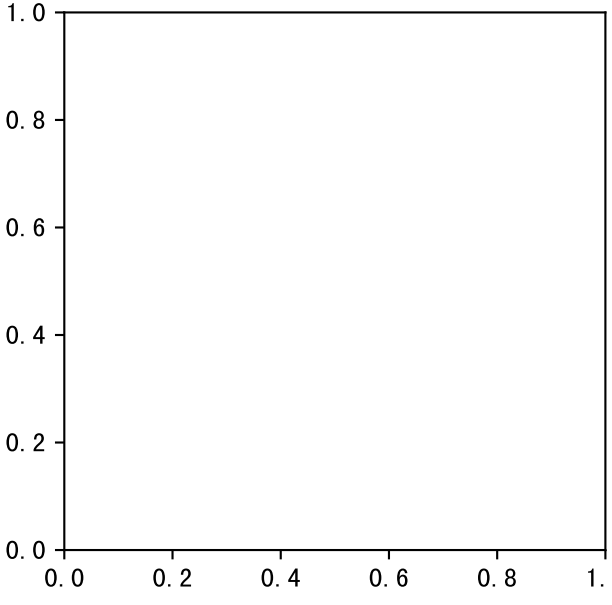

ETcl
ETol
T
RH
VN
I
ETcl
ETol
T
RH
VN
I

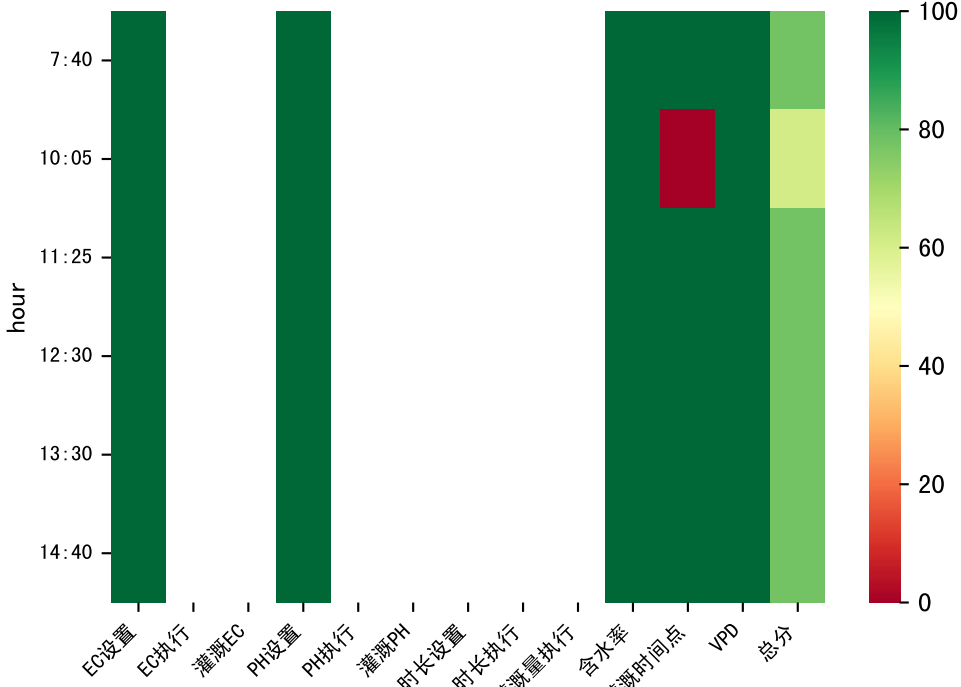




baiA	baiB
0.141	0.0514



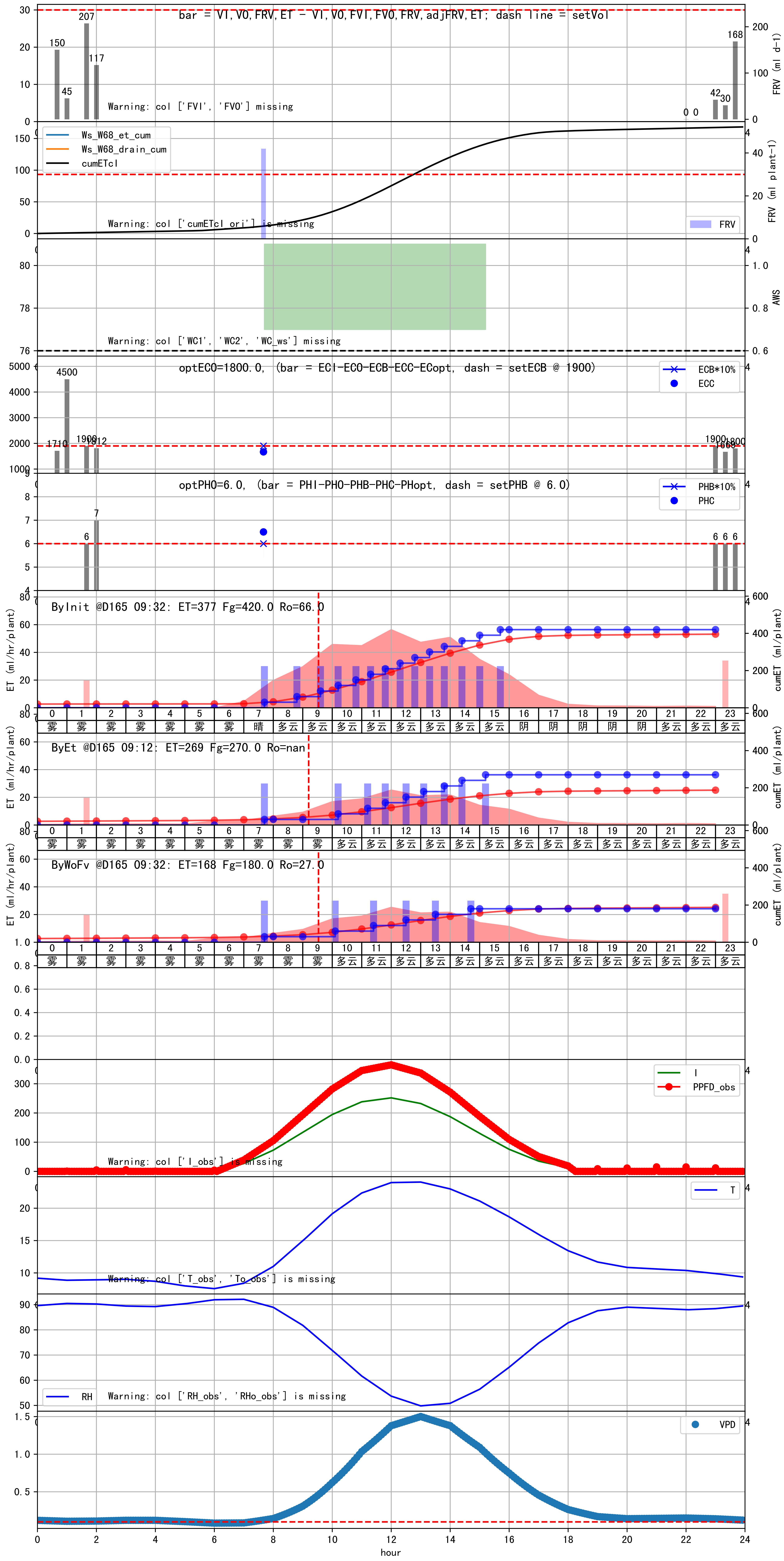


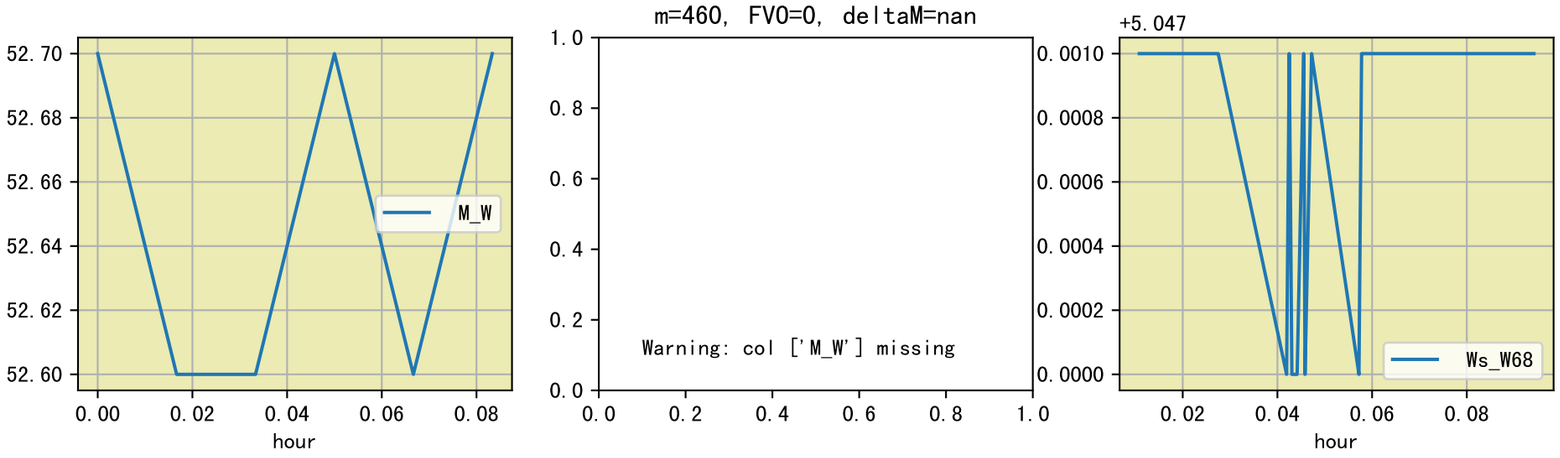

hour
7:40
10:05
11:25
12:30
13:30
14:40
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

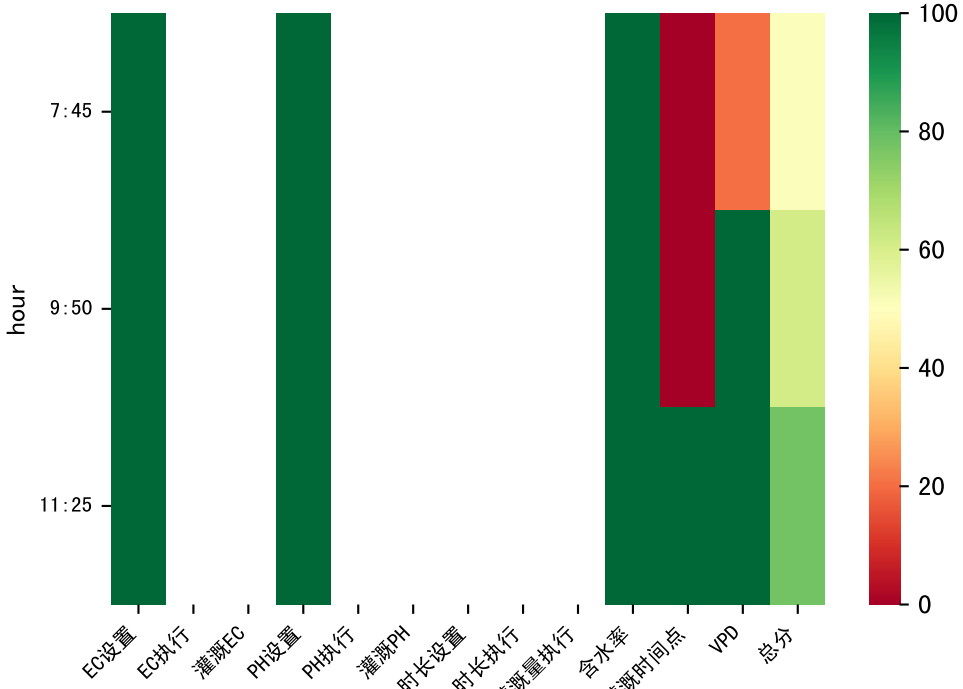
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:40	68	30.0	0.122	雾	假设@07:40 自动（未用传感器）
10:05	68	30.0	0.122	多云	预期@10:05 自动（未用传感器）
11:25	68	30.0	0.122	多云	预期@11:25 自动（未用传感器）
12:30	68	30.0	0.122	多云	预期@12:30 自动（未用传感器）
13:30	68	30.0	0.122	多云	预期@13:30 自动（未用传感器）
14:40	68	30.0	0.122	多云	预期@14:40 自动（未用传感器）
总计	408.0 (6次)	180.0			建议进液EC：1900， PH：6.0

施肥机灌溉量与预期值不符 (42.0 : 30.0)，可能水表需要校准
默认实际灌溉30.0 ml.

L1A4_4, Day=165.0 (2026-03-20)



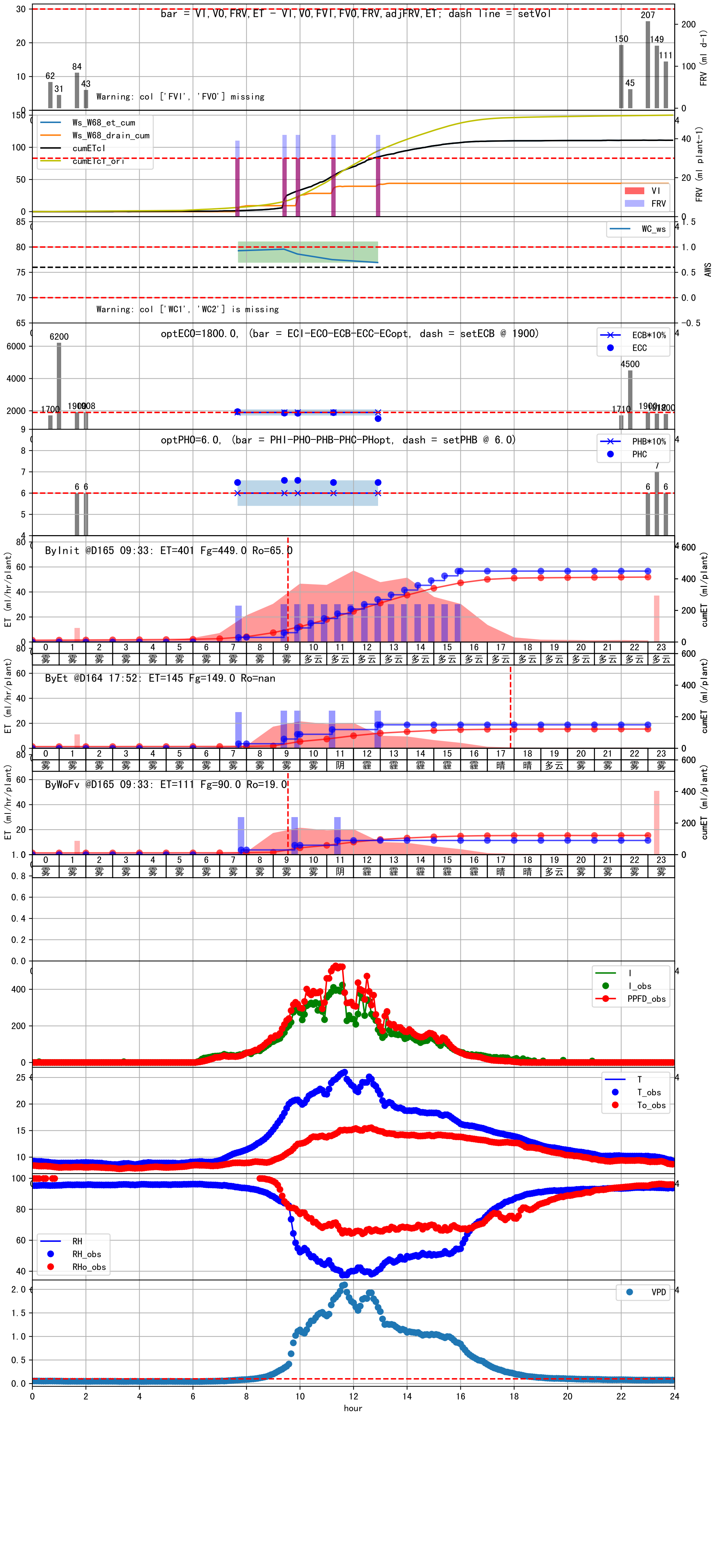

m=460, FV0=0, deltaM=nan
M_W
Warning: col ['M_W'] missing
+5.047
Ws_W68
hour
hour

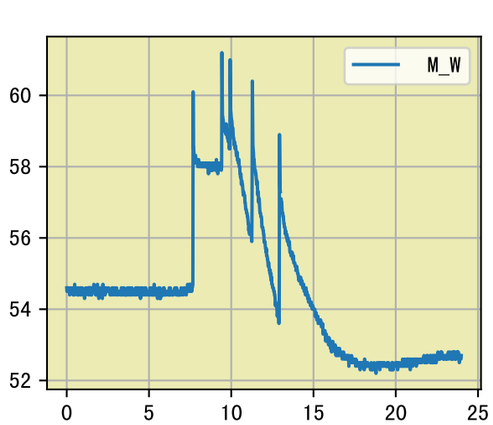

hour
7:45
9:50
11:25
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

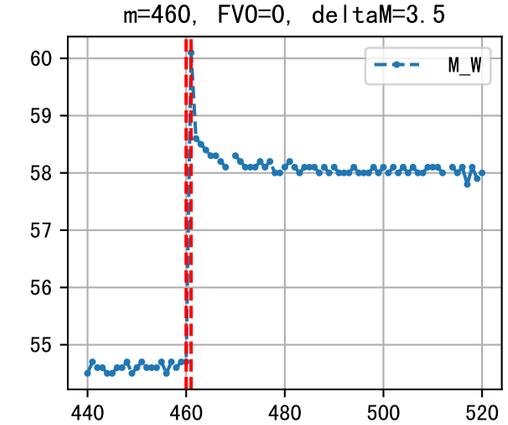
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:45	65	30.0	0.122	雾	假设@07:45 自动（未用传感器）
09:50	65	30.0	0.122	雾	假设@09:50 自动（未用传感器）
11:25	65	30.0	0.122	阴	假设@11:25 自动（未用传感器）
总计	195.0 (3次)	90.0			建议进液EC：1900， PH：6.0

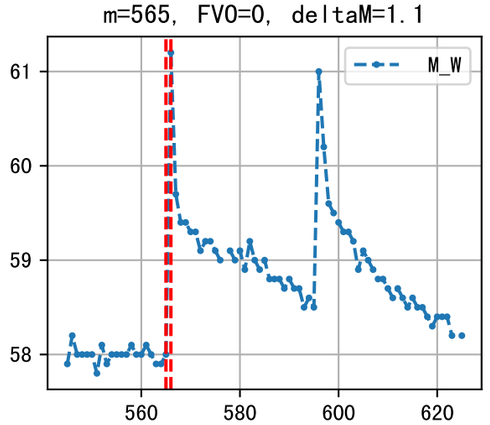
施肥机灌溉量与预期值不符 (42.0 : 30.0)，可能水表需要校准
默认实际灌溉30.0 ml.

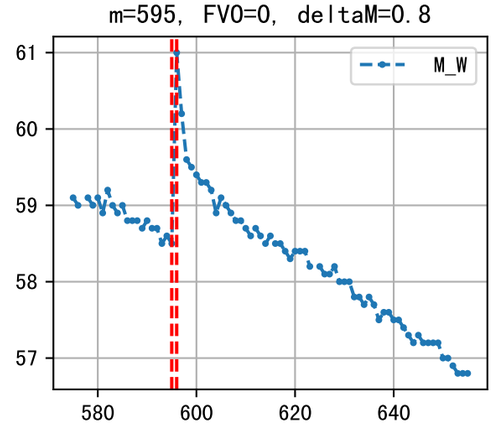
L1A4_4, Day=164.0 (2026-03-19)

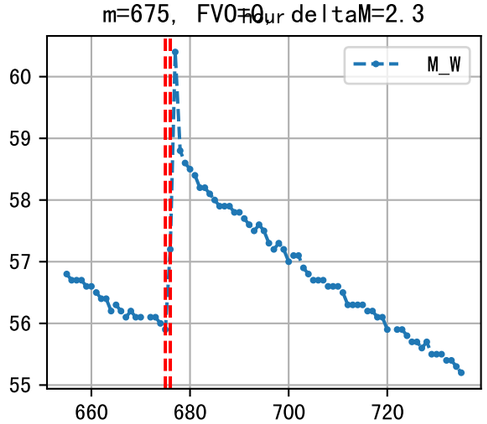


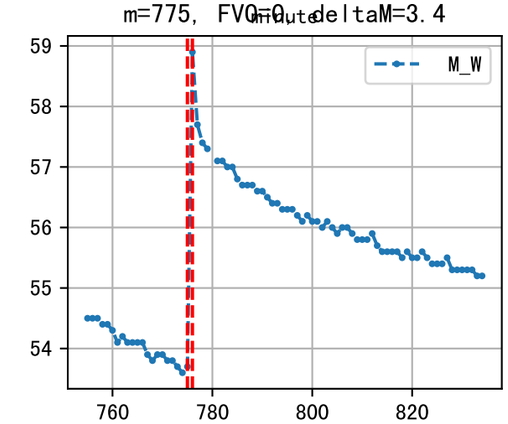

M_W

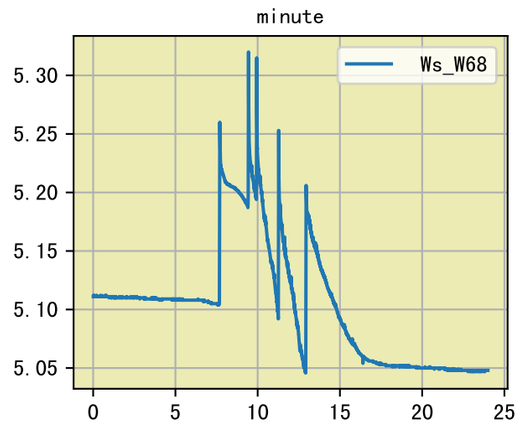

m=460, FVO=0, deltaM=3.5
M_W

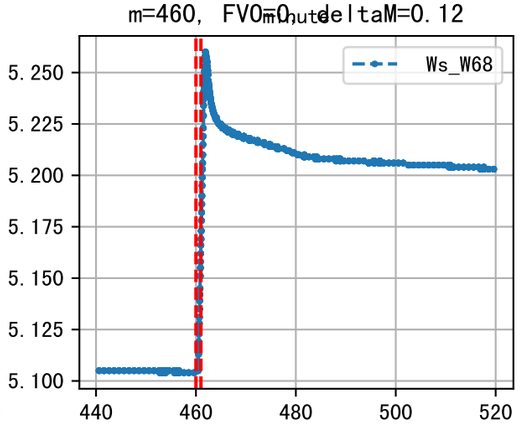

m=565, FVO=0, deltaM=1.1
M_W
minute

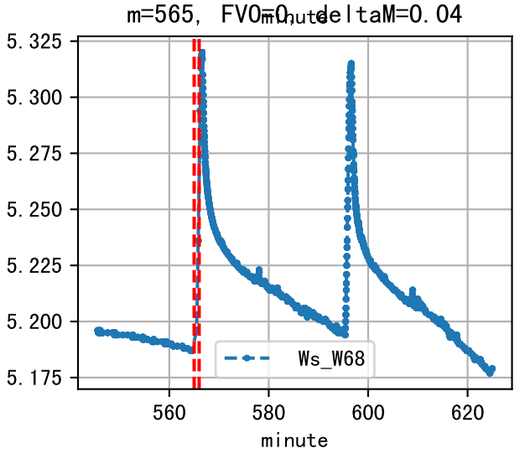

m=595, FVO=0, deltaM=0.8
M_W

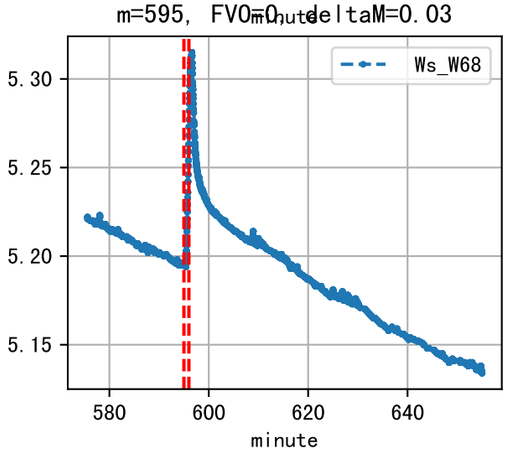

m=675, FVO=0, deltaM=2.3
M_W

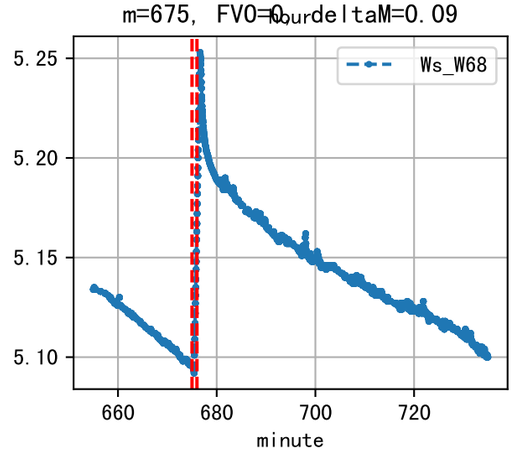

m=775, FVO=0, deltaM=3.4
M_W

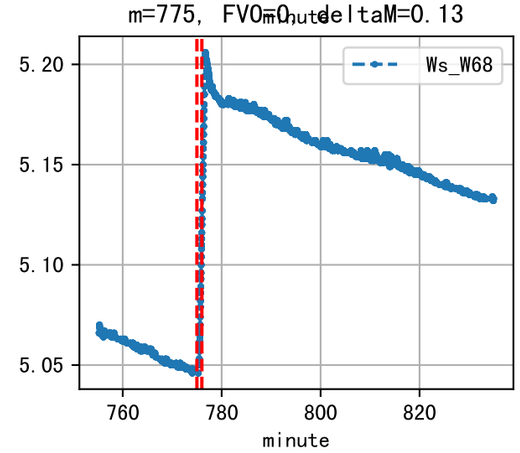

Ws_W68

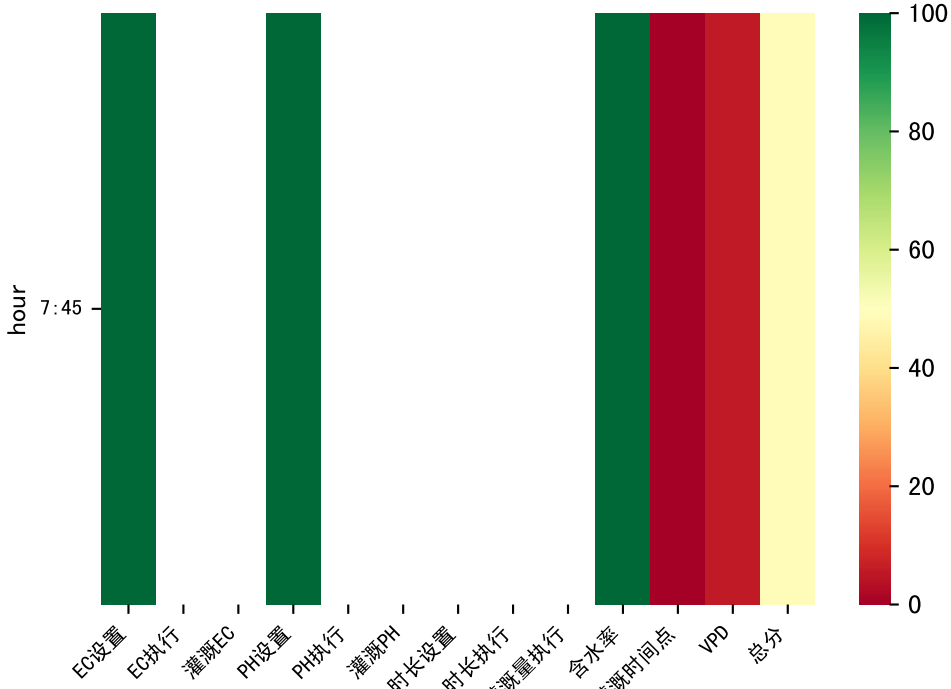

m=460, FVO=0, deltaM=0.12
Ws_W68


m=565, FVO=0, deltaM=0.04
Ws_W68
minute


m=595, FVO=0, deltaM=0.03
Ws_W68
minute


m=675, FVO=0, deltaM=0.09
Ws_W68
minute

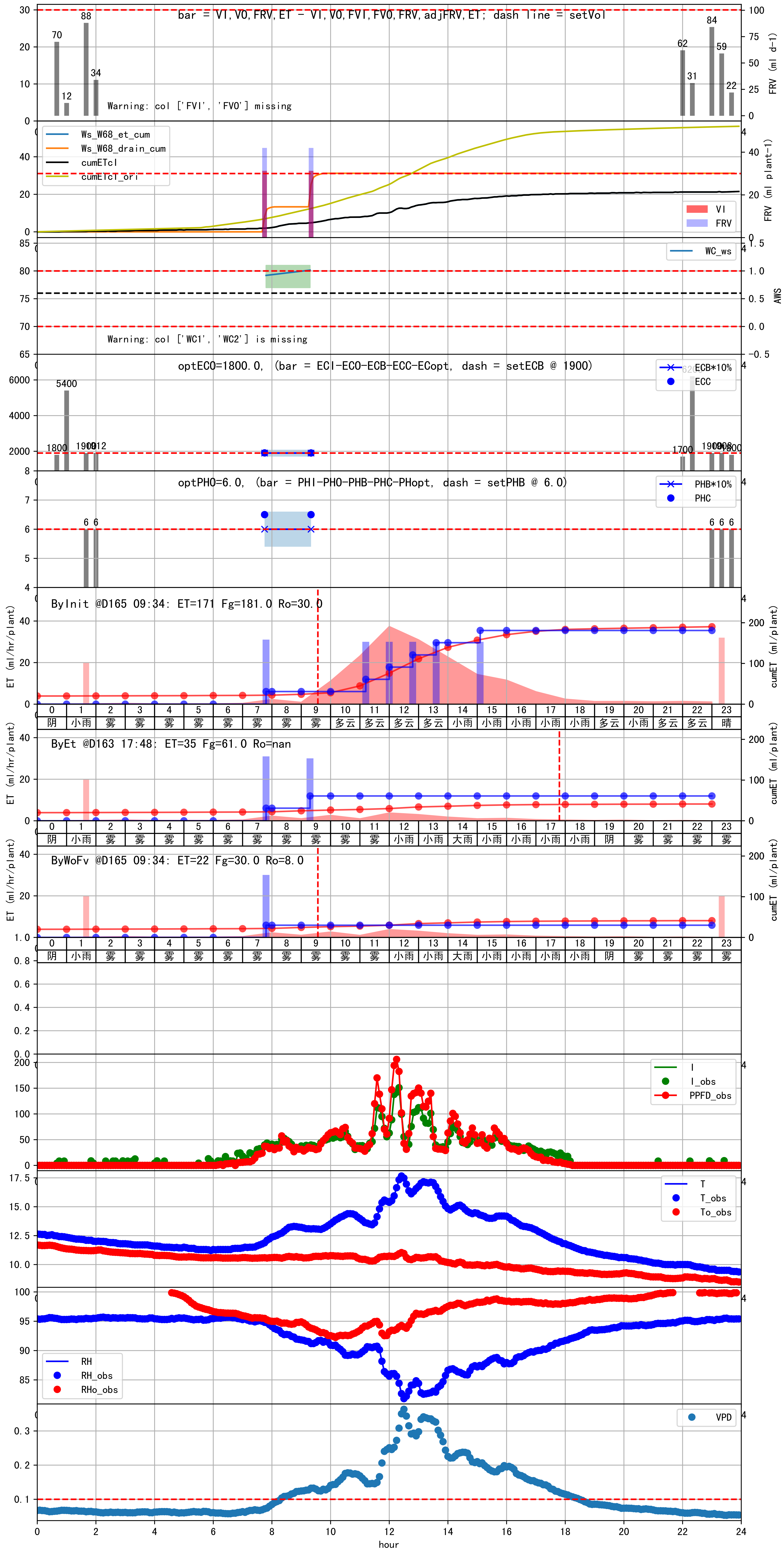

m=775, FVO=0, deltaM=0.13
Ws_W68
minute

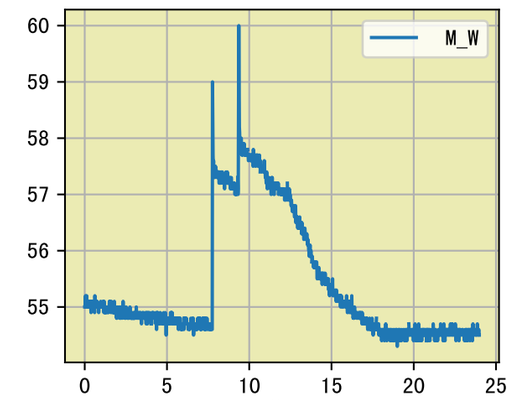

hour
7:45
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

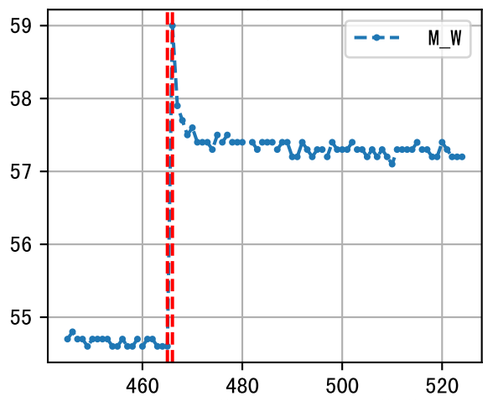
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:45	71	30.0	0.122	雾	假设@07:45 自动（未用传感器）
总计	71.0 (1次)	30.0			建议进液EC：1900， PH：6.0

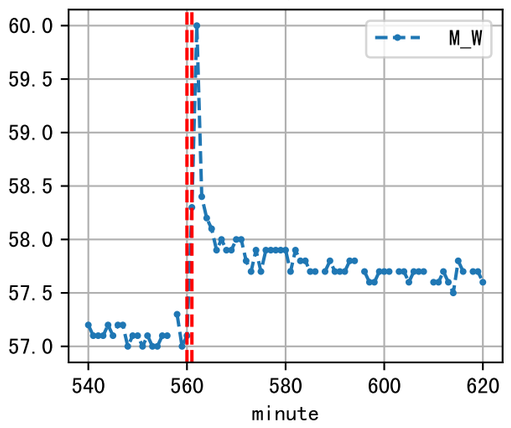
施肥机灌溉量与预期值不符 (42.0 : 29.0)，可能水表需要校准
默认实际灌溉29.0 ml.

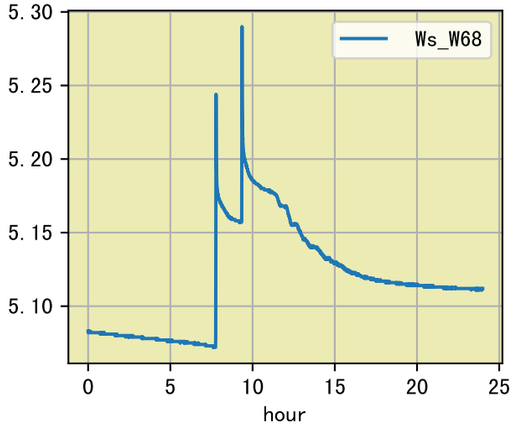
L1A4_4, Day=163.0 (2026-03-18)

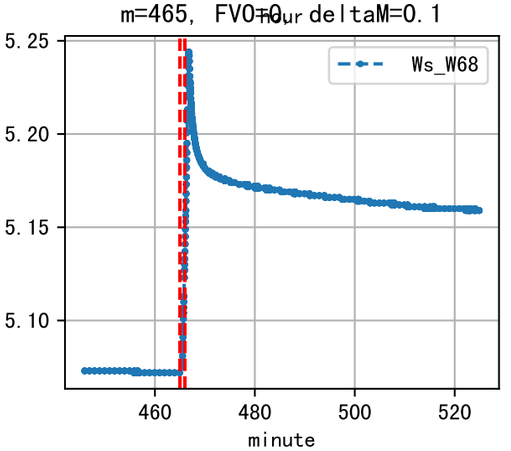


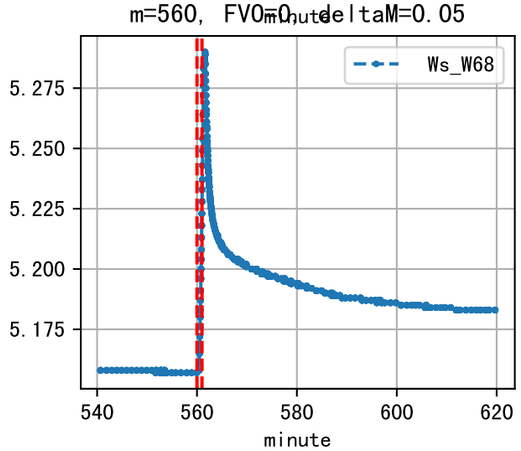

M_W

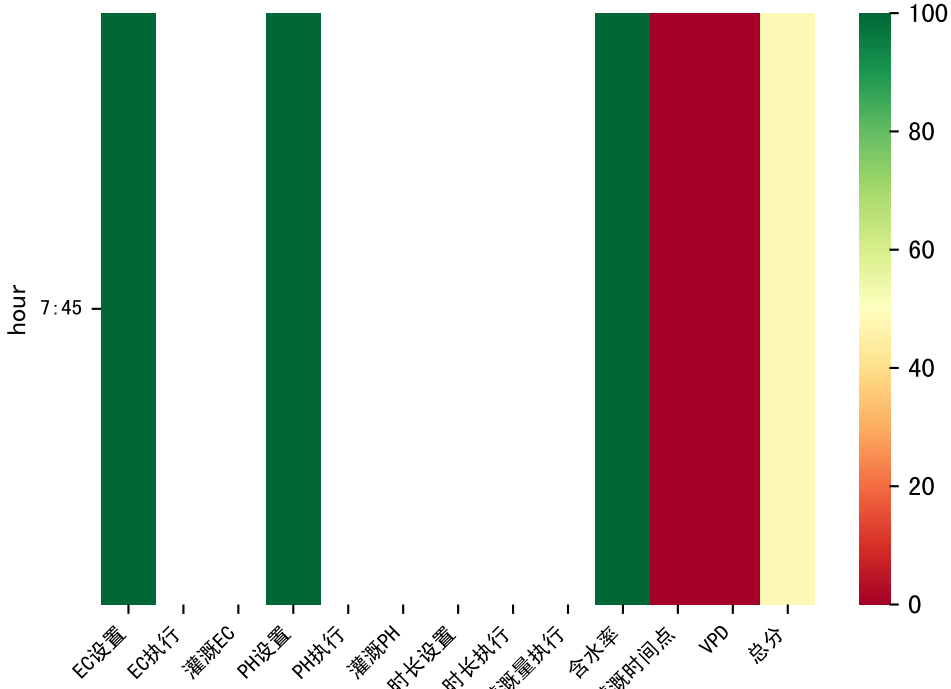

m=465, FV0=0, deltaM=2.8
M_W


m=560, FV0=0, deltaM=0.9
M_W
minute


Ws_W68
hour


m=465, FV0=0, deltaM=0.1
Ws_W68
minute

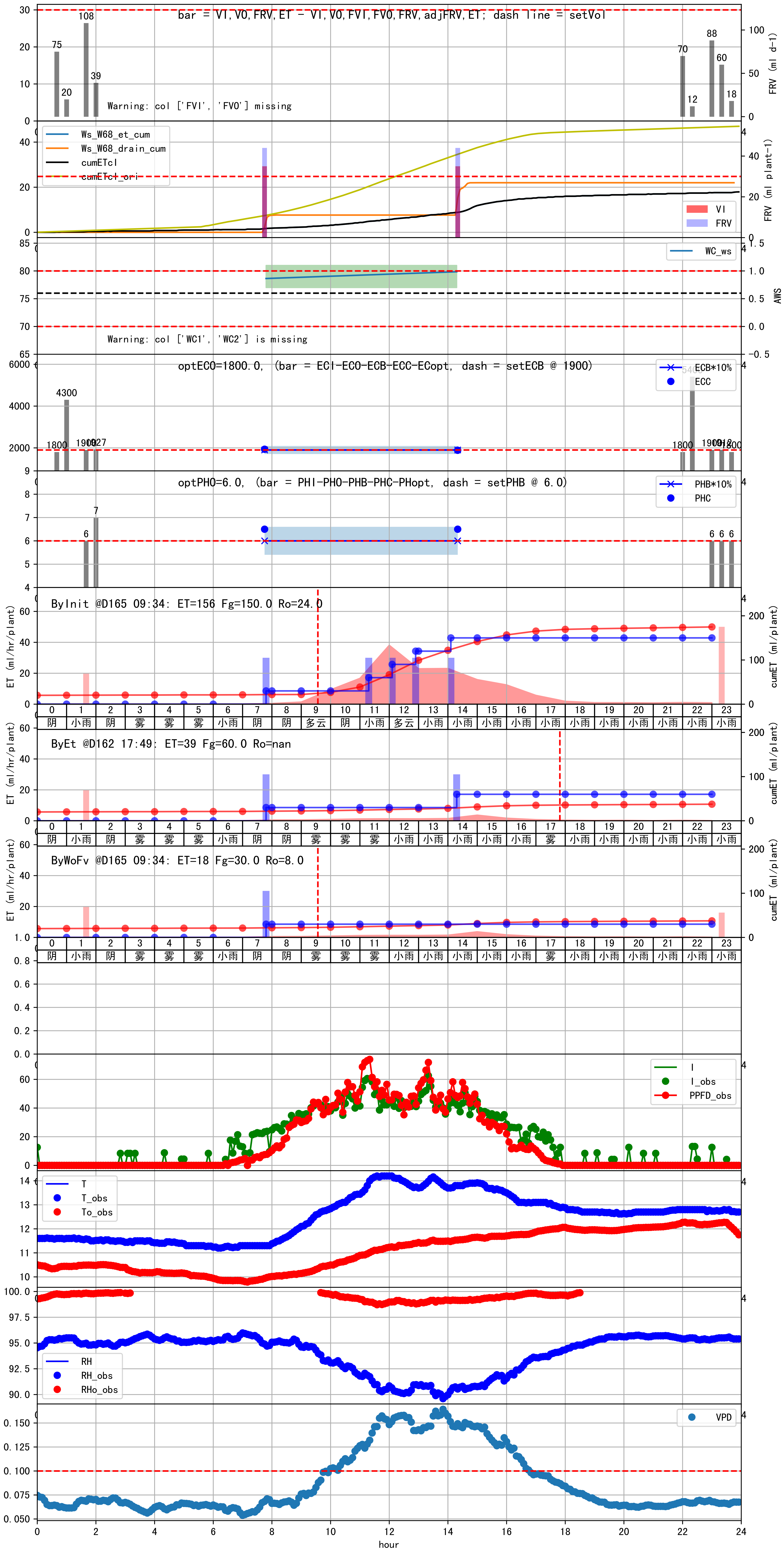

m=560, FV0=0, deltaM=0.05
Ws_W68
minute

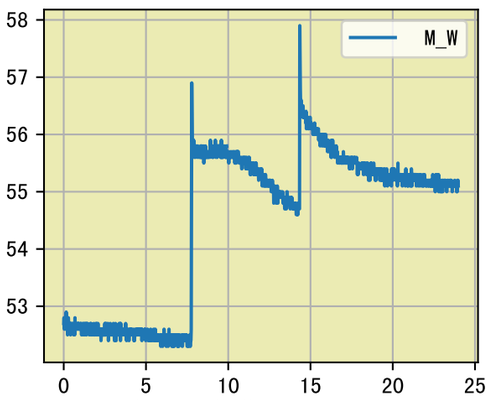

hour
7:45
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

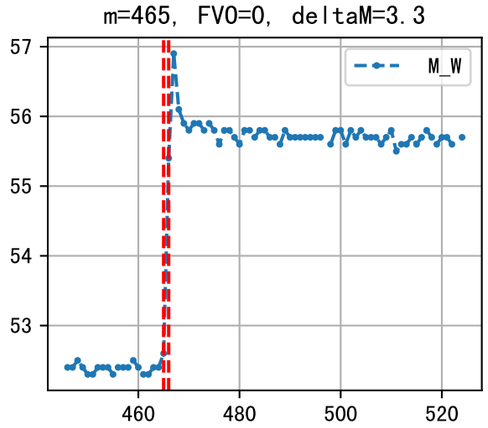
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:45	71	30.0	0.122	阴	假设@07:45 自动（未用传感器）
总计	71.0 (1次)	30.0			建议进液EC：1900， PH：6.0

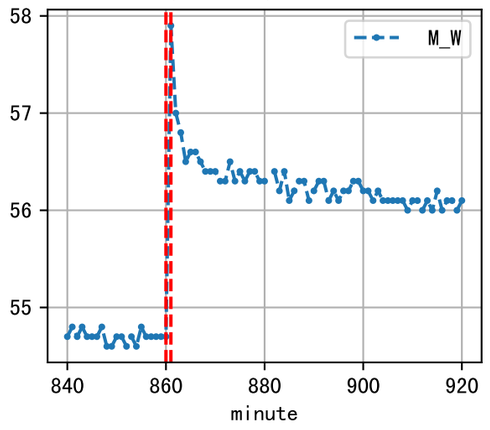
施肥机灌溉量与预期值不符 (44.0 : 30.0)，可能水表需要校准
默认实际灌溉30.0 ml.

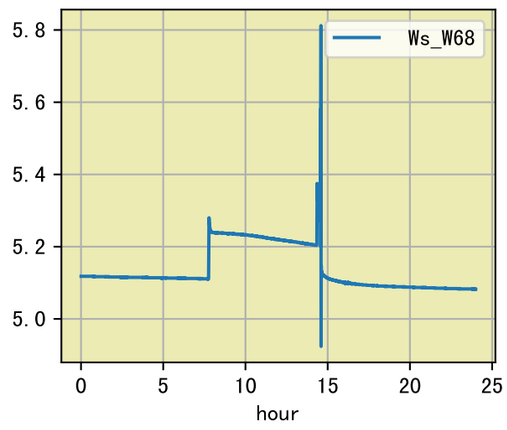
L1A4_4, Day=162.0 (2026-03-17)

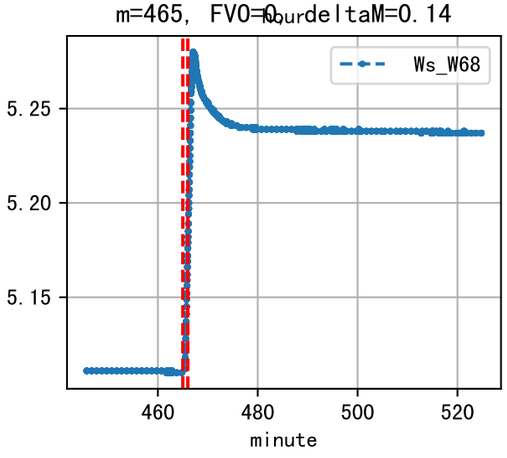


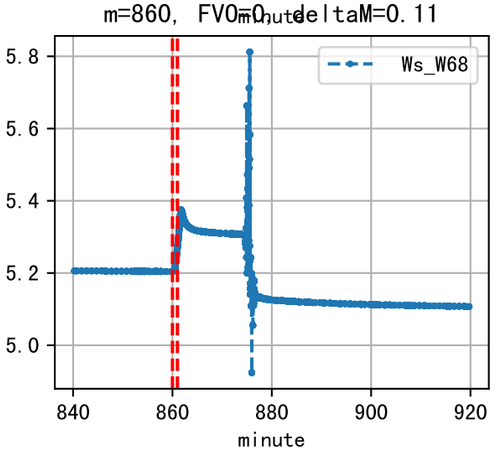

M_W

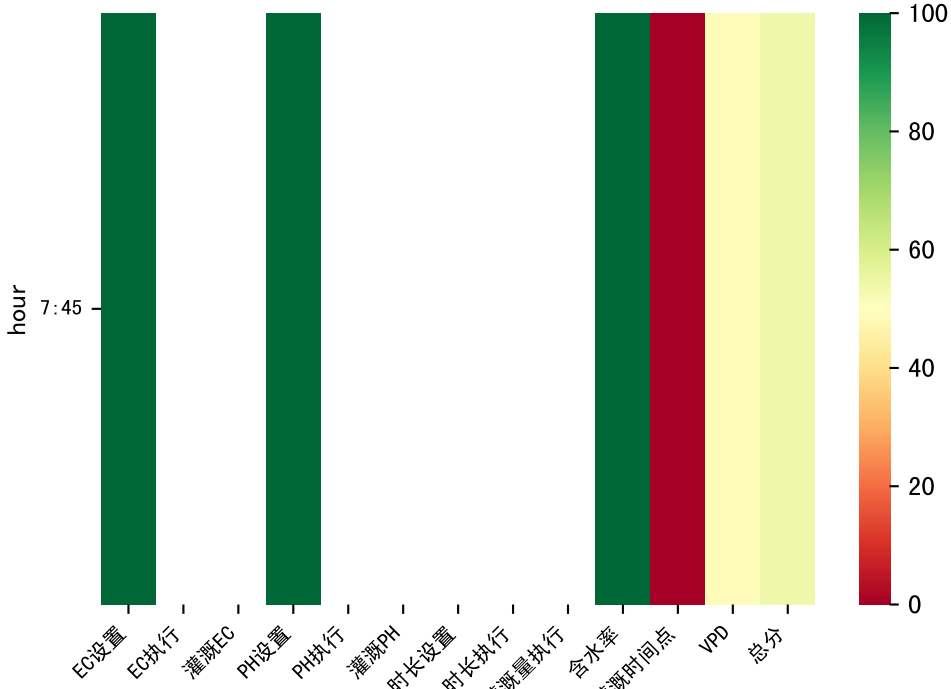

m=465, FV0=0, deltaM=3.3
M_W


m=860, FV0=0, deltaM=1.8
M_W
minute


Ws_W68
hour


m=465, FV0=0, deltaM=0.14
Ws_W68
minute

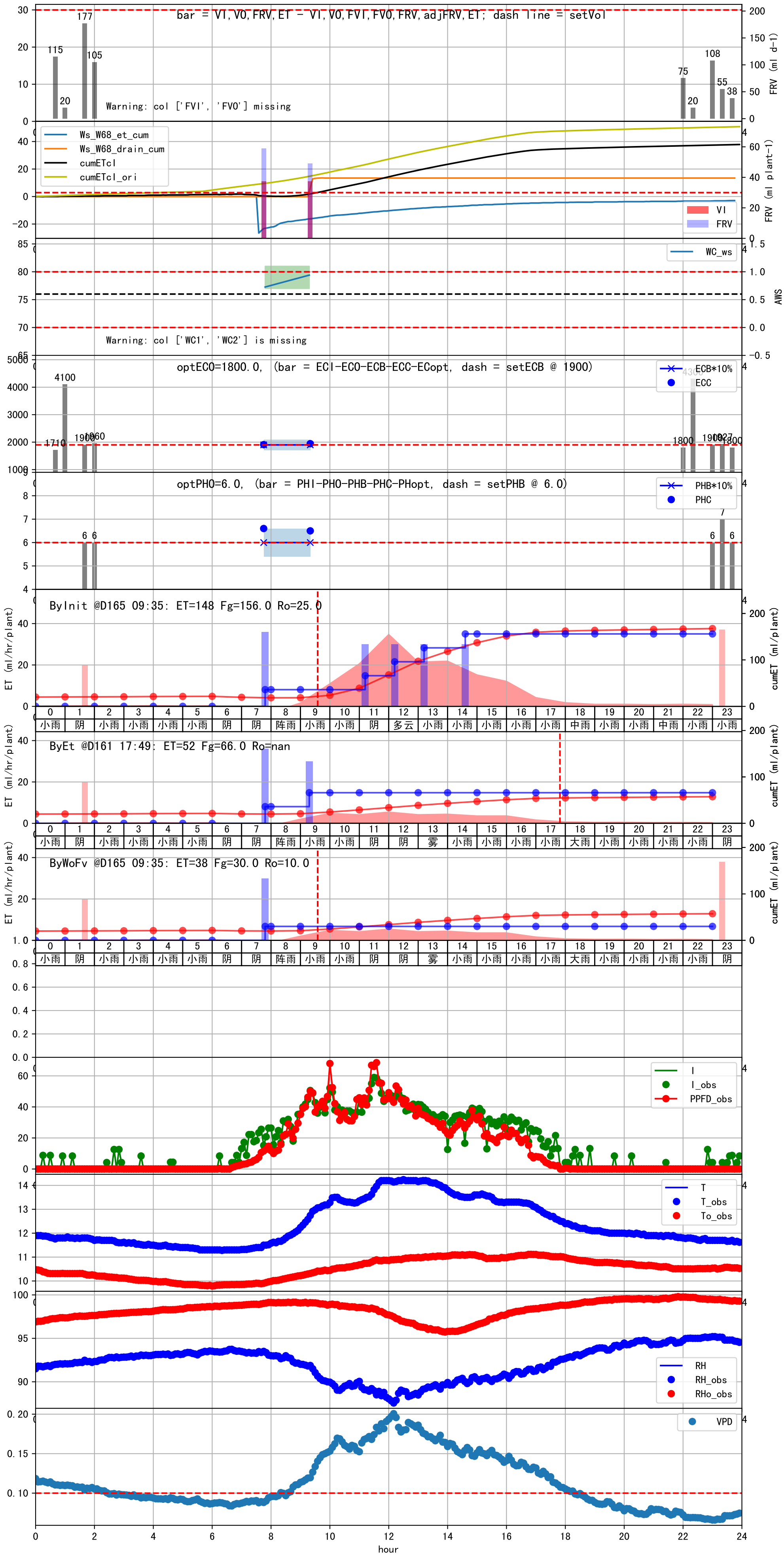

m=860, FV0=0, deltaM=0.11
Ws_W68
minute

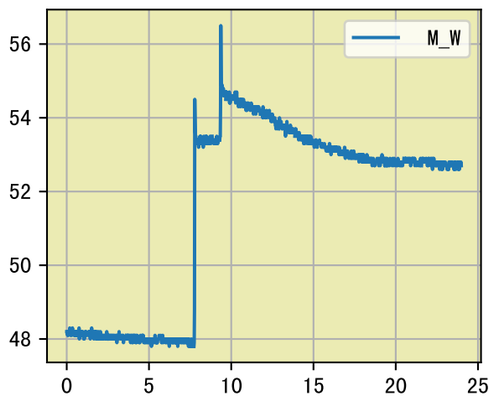

hour
7:45
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

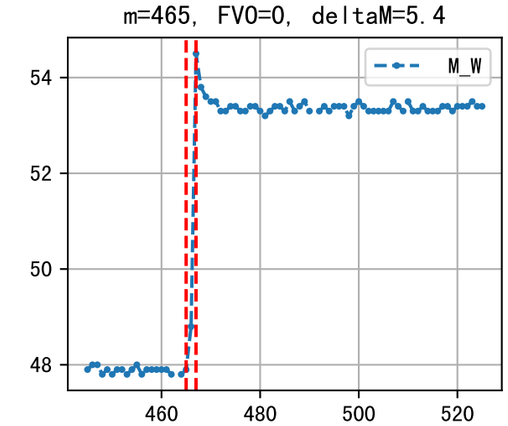
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:45	97	30.0	0.122	阴	假设@07:45 自动（未用传感器）
总计	97.0 (1次)	30.0			建议进液EC：1900， PH：6.0

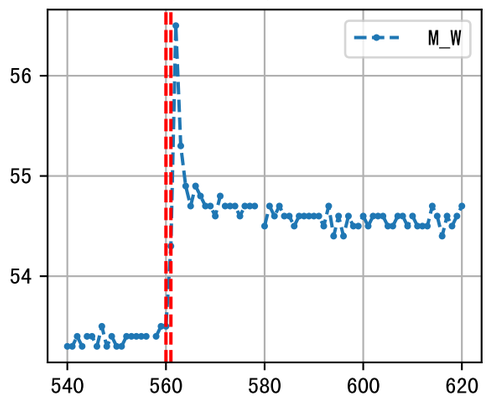
上次灌溉流速比过去5天平均小 (0.61 vs 0.7)，可能管道压力异常或有管道堵塞
施肥机灌溉量与预期值不符 (49.0 : 25.0)，可能水表需要校准
上次灌溉时长未按模型建议(81 vs 97.0))
默认实际灌溉25.0 ml.

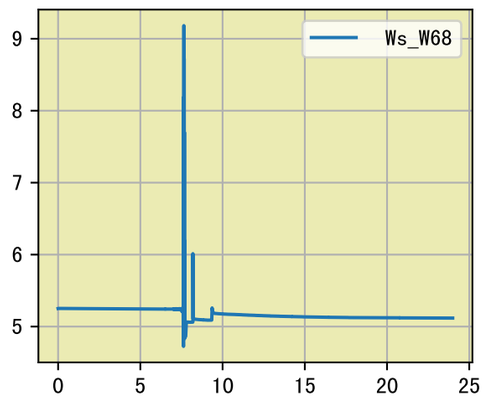
L1A4_4, Day=161.0 (2026-03-16)

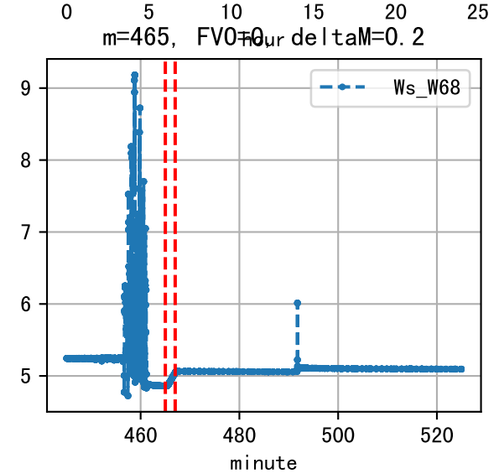


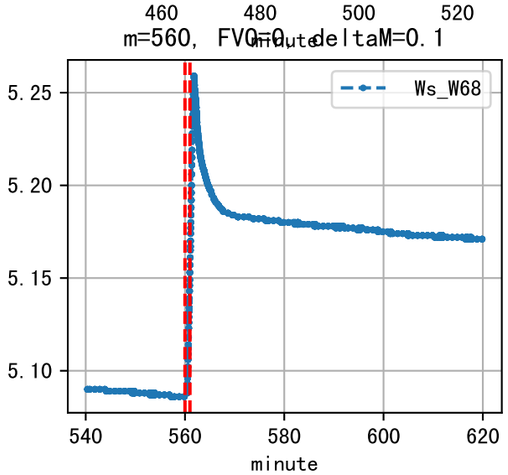

M_W
56
54
52
50
48
0
5
10
15
20
25


m=465, FVO=0, deltaM=5.4
M_W
54
52
50
48
460
480
500
520


m=560, FVO=0, deltaM=1.3
M_W
56
55
54
540
560
580
600
620
minute


Ws_W68
9
8
7
6
5
0
5
10
15
20
25
hour


m=465, FVO=0, deltaM=0.2
Ws_W68
9
8
7
6
5
460
480
500
520
minute


m=560, FVO=0, deltaM=0.1
Ws_W68
5.25
5.20
5.15
5.10
540
560
580
600
620
minute