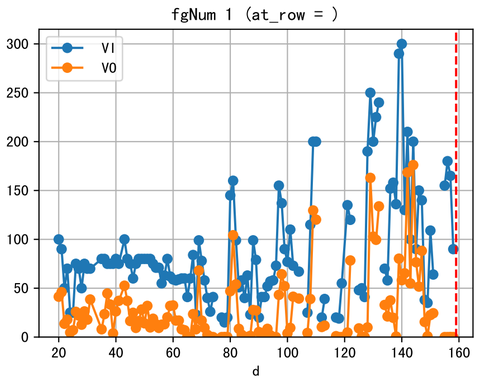
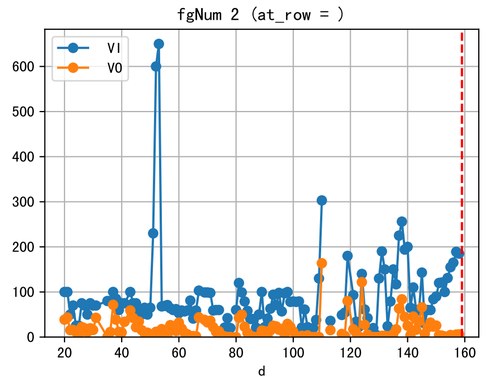
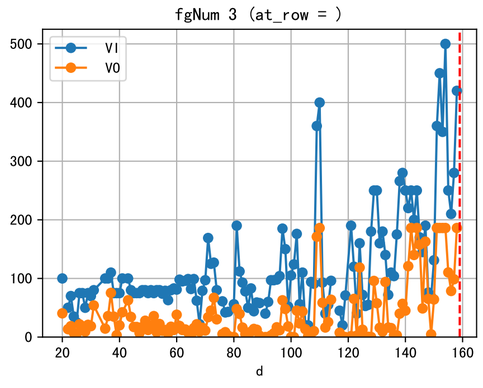
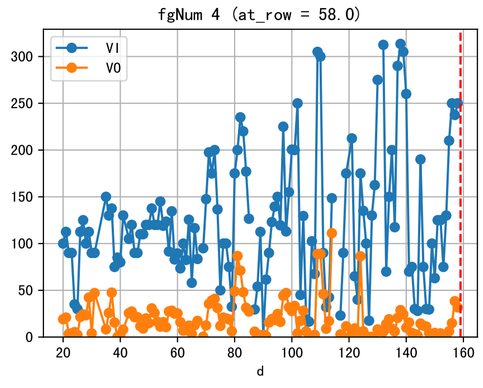
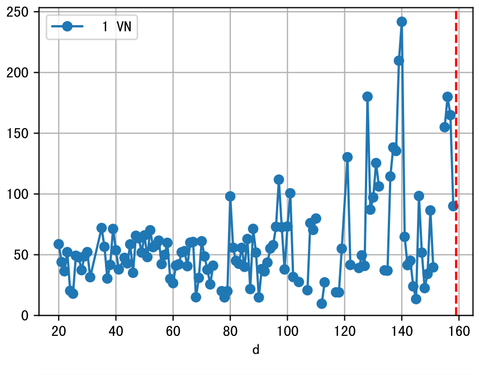
FgArea: ['4']
NJ15 L1
2026-03-14 (Day 159)

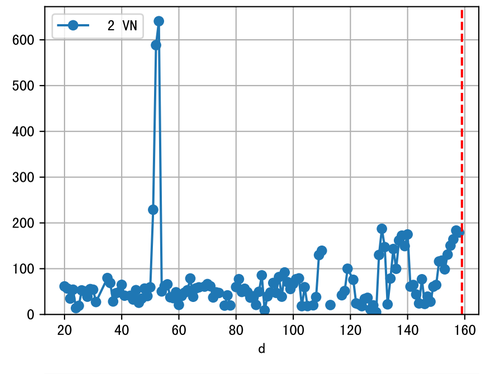

fgNum 1 (at_row =)
VI
VO
d

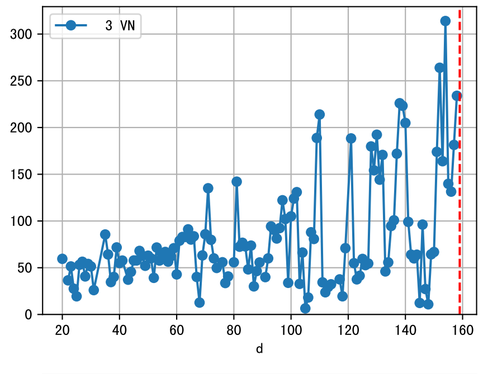

fgNum 2 (at_row =)
VI
VO
d

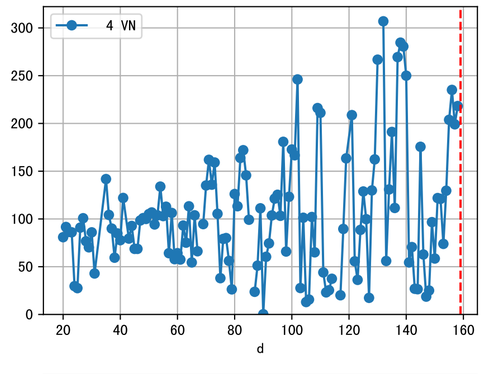

fgNum 3 (at_row =)
VI
VO
d

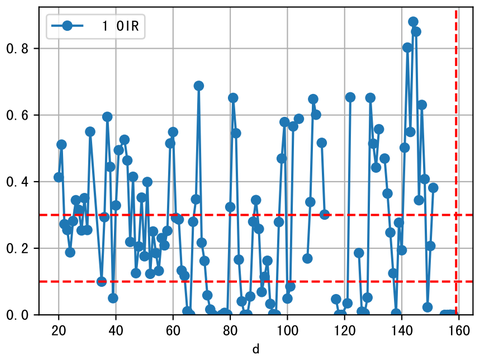

fgNum 4 (at_row = 58.0)
VI
VO
d

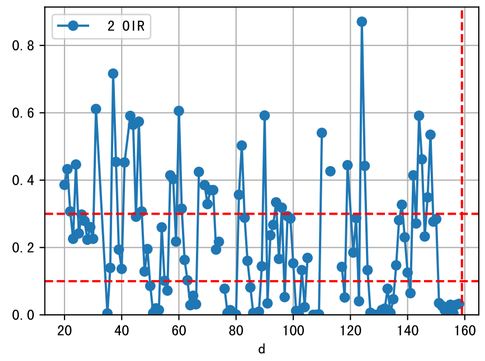

1 VN
d

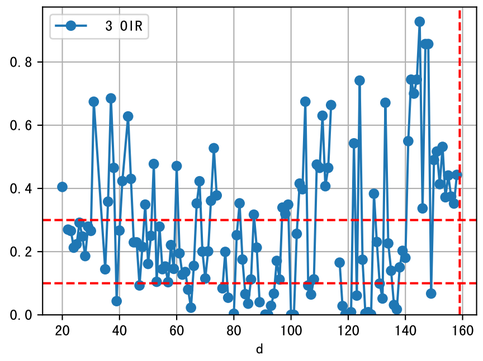

2 VN
d

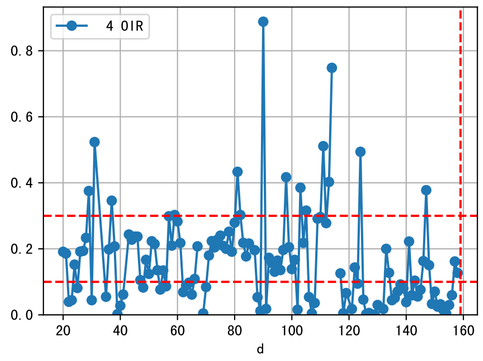

3 VN
d

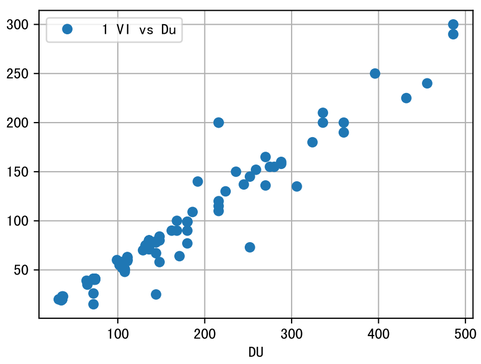

4 VN
d

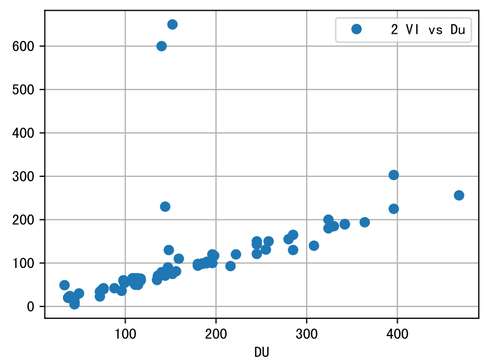

1 OIR
d

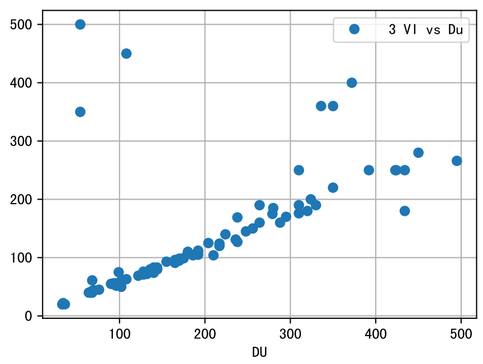

2 OIR
d

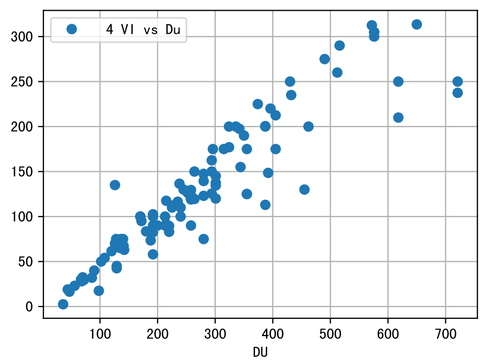

3 OIR
d

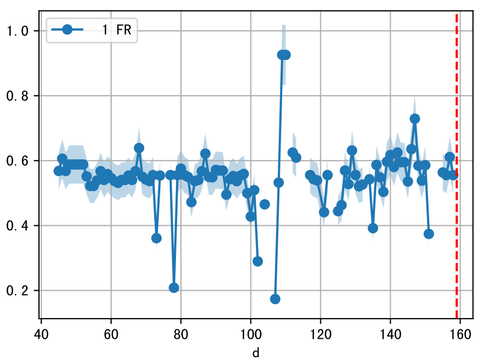

4 OIR
d

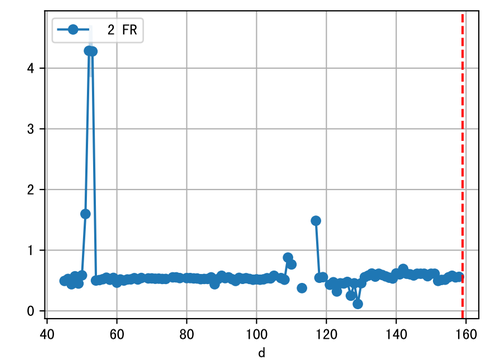

1 VI vs Du
DU

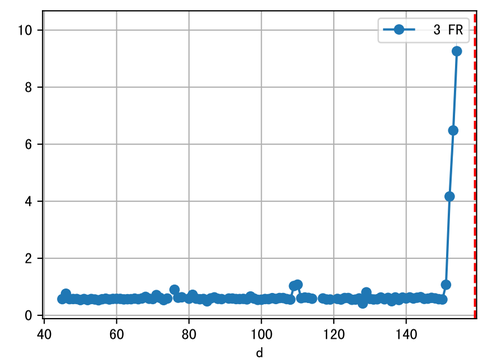

2 VI vs Du
DU

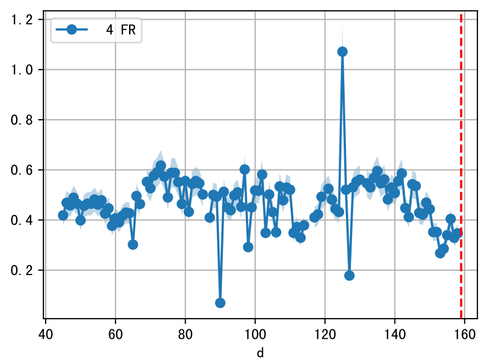

3 VI vs Du
DU

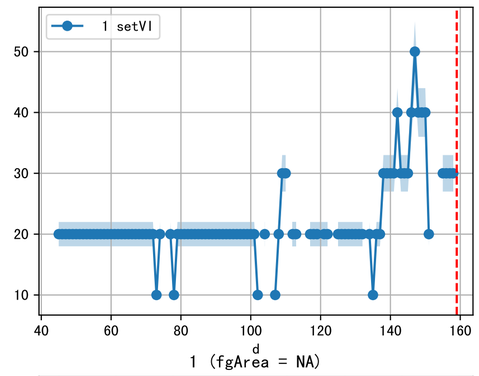

4 VI vs Du
DU

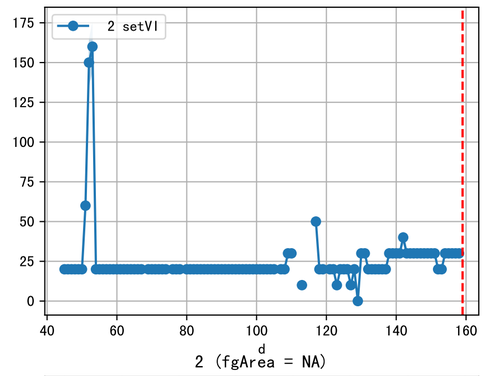

1 FR
d

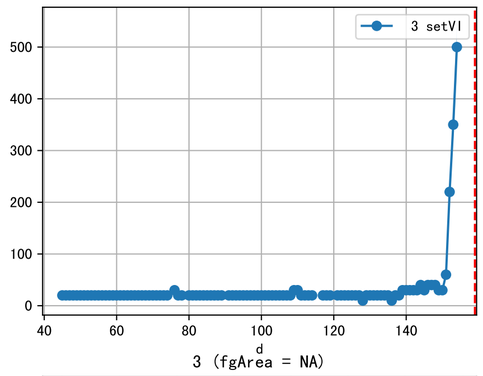

2 FR
d

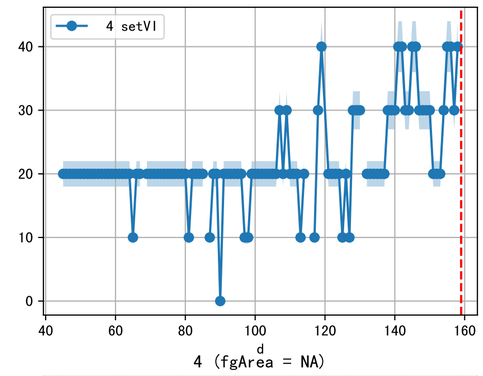

3 FR
d

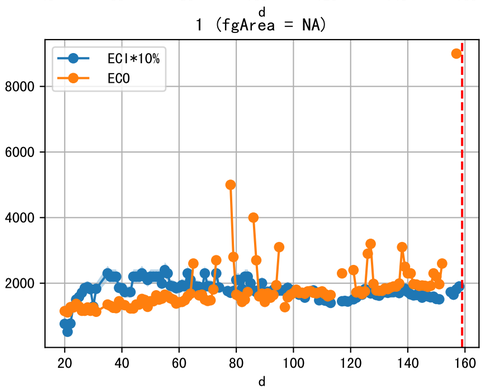

4 FR
d

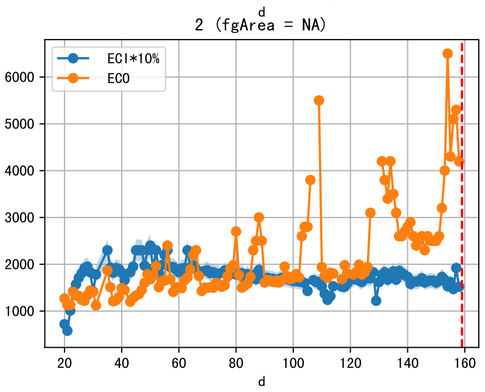

1 setVI
d

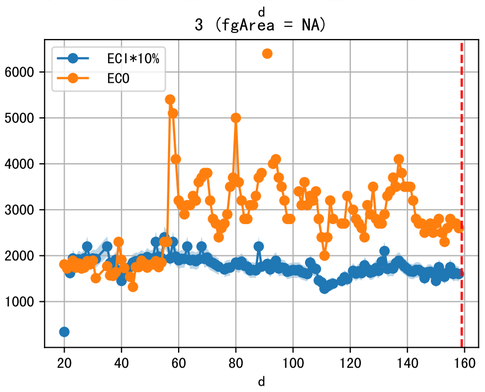

2 setVI
d

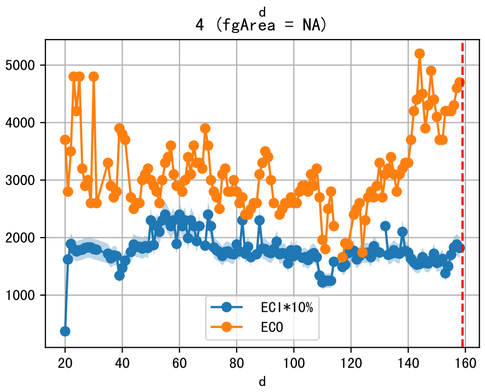

3 setVI
d

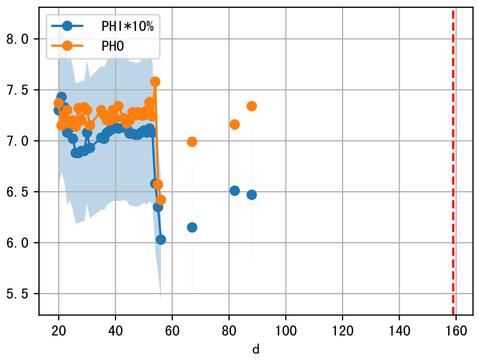

4 setVI
d

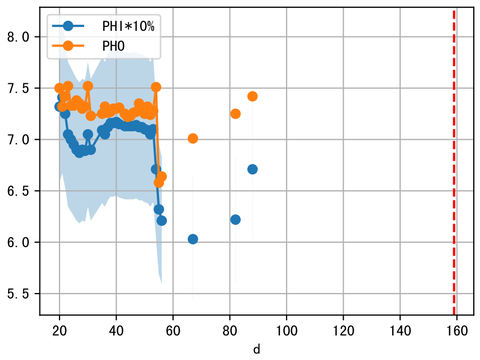

1 (fgArea = NA)
ECI*10%
ECO
d

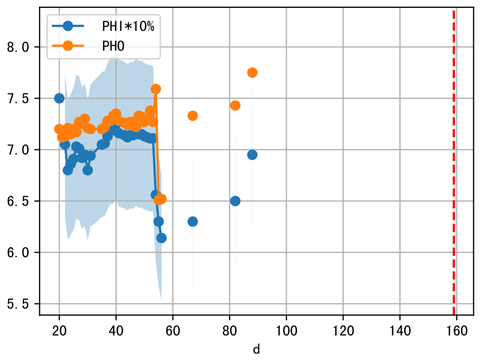

2 (fgArea = NA)
ECI*10%
ECO
d

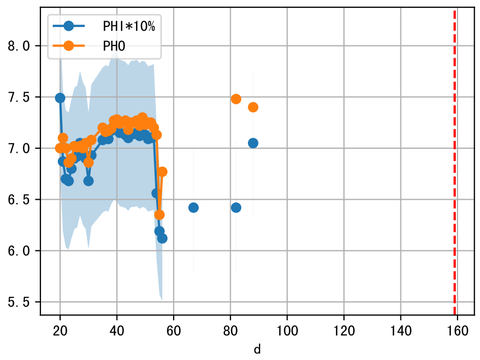

3 (fgArea = NA)
ECI*10%
ECO
d

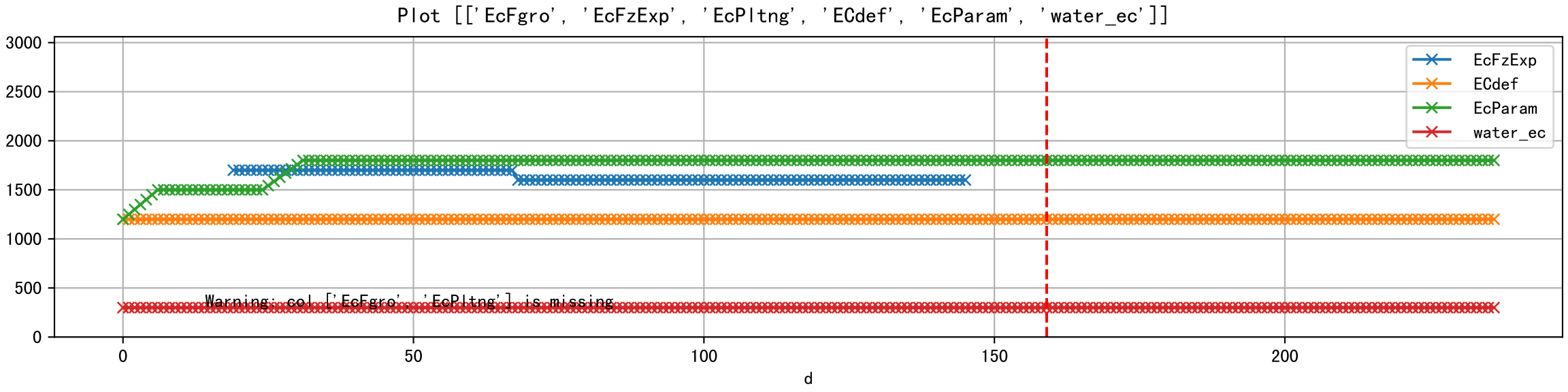

4 (fgArea = NA)
ECI*10%
ECO
d

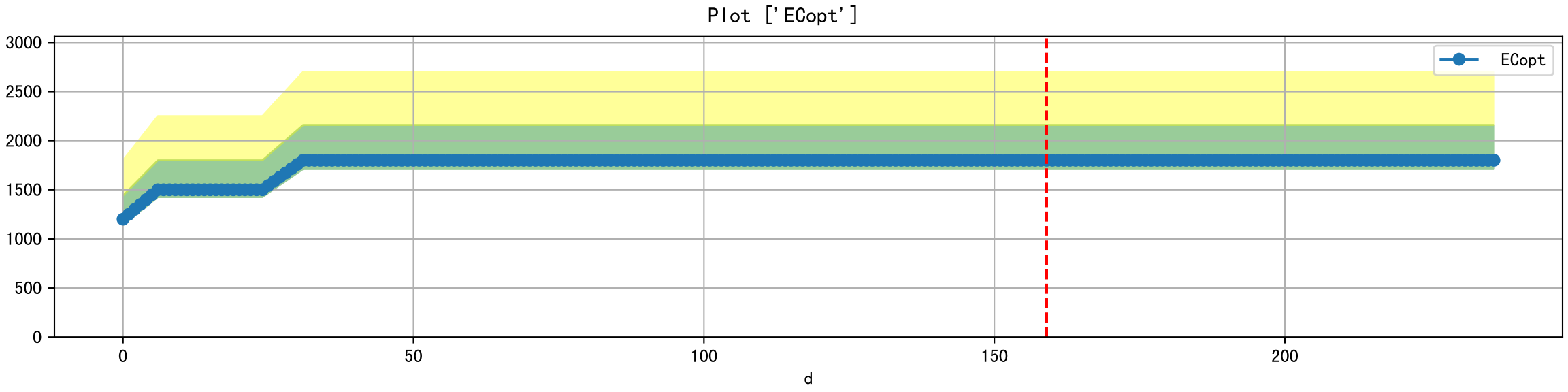

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

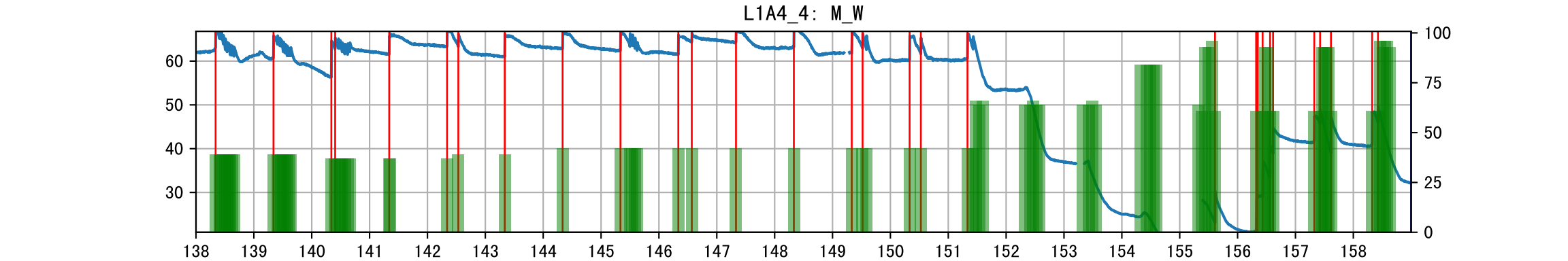

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d


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

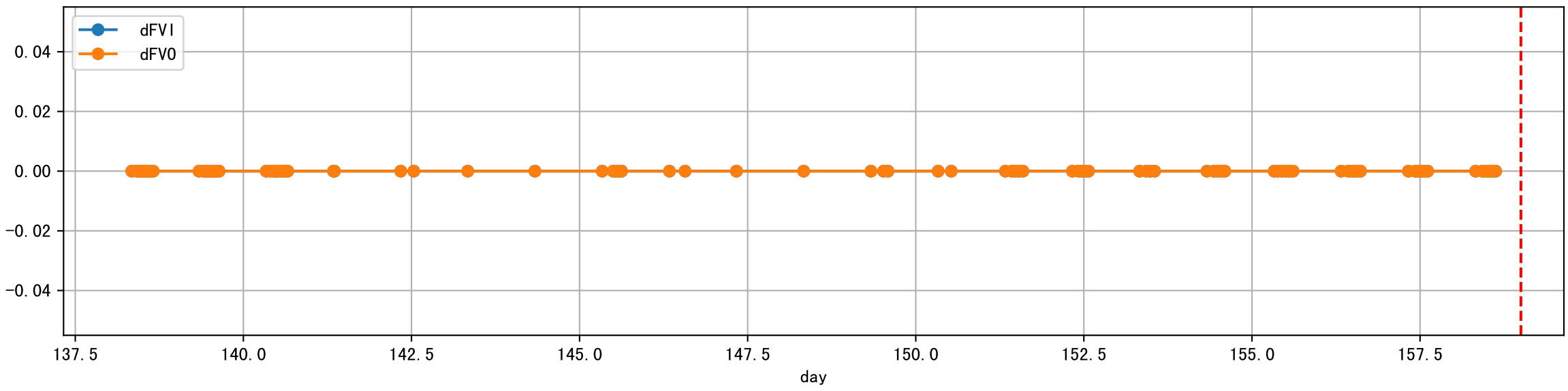

PHI*10%
PHO
8.0
7.5
7.0
6.5
6.0
5.5
20
40
60
80
100
120
140
160
d

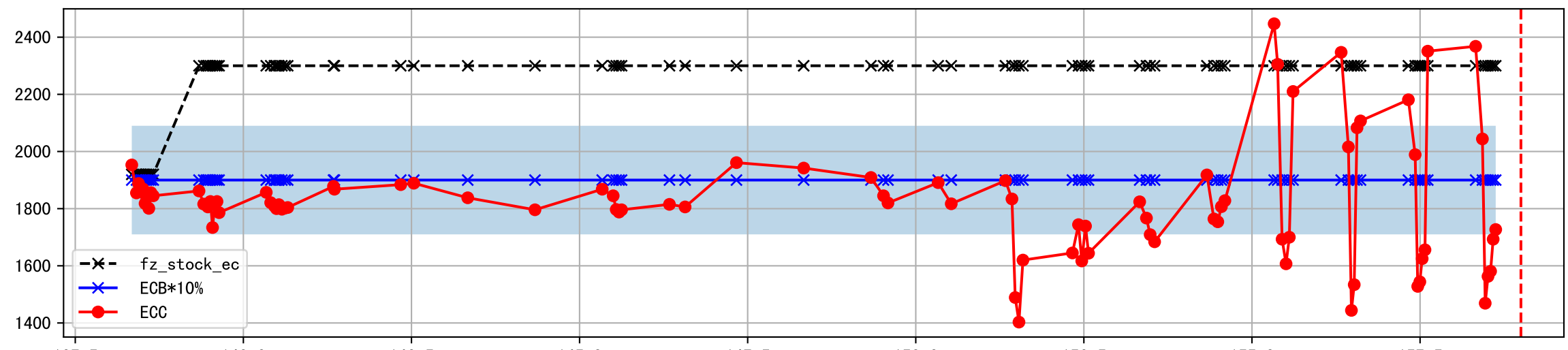

Plot [['EcFgro', 'EcFzExp', 'EcPltng', 'ECdef', 'EcParam', 'water_ec']]
Warning: col ['EcFgro', 'EcPltng'] is missing
EcFzExp
ECdef
EcParam
water_ec
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

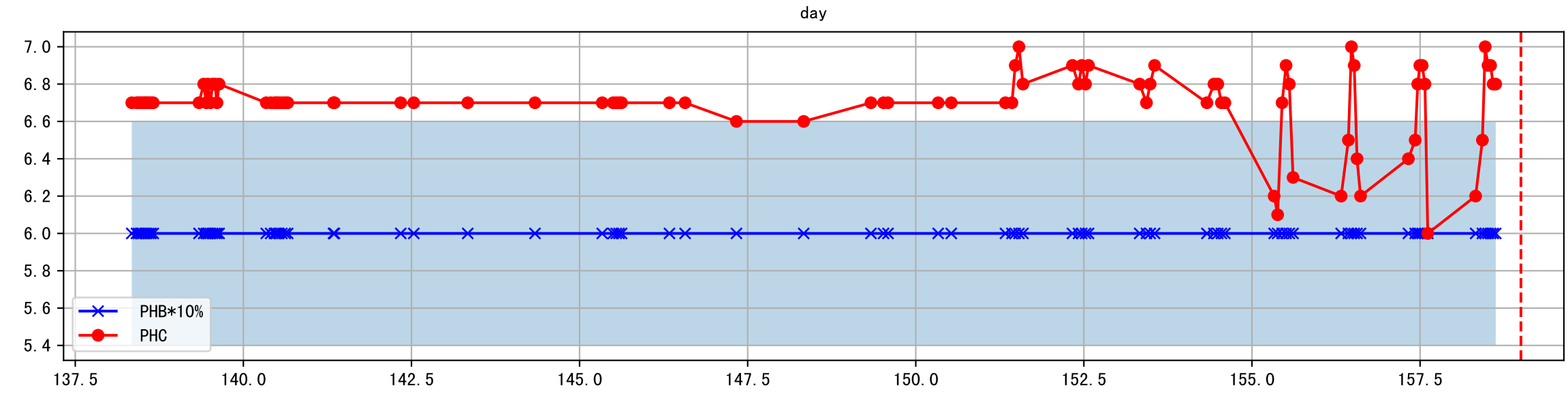

Plot ['ECopt']
ECopt
3000
2500
2000
1500
1000
500
0
0
50
100
150
200
d

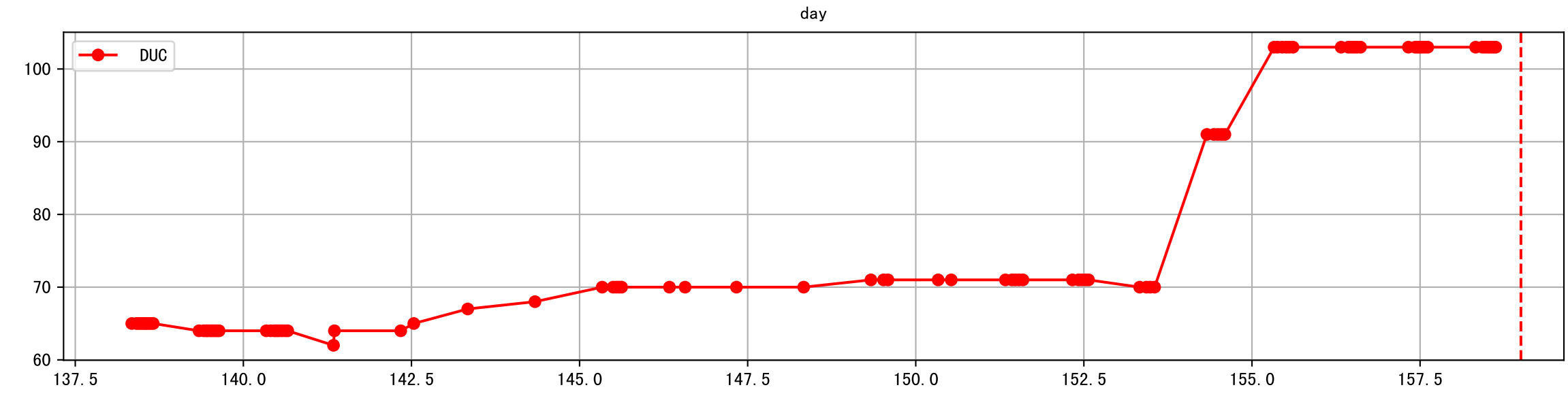

L1A4_4: M_W
60
50
40
30
100
75
50
25
0
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158

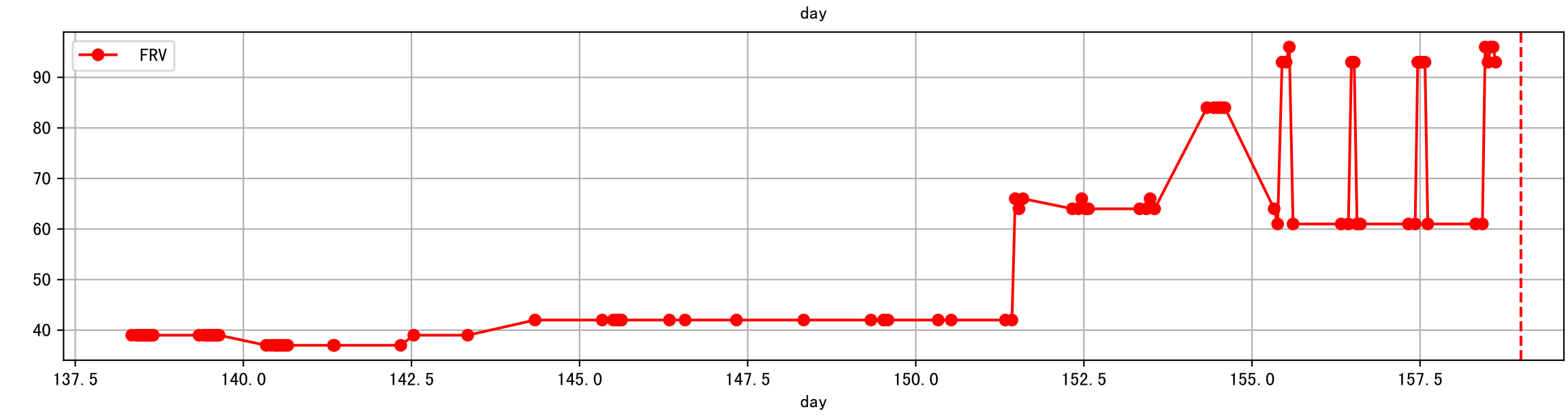
Plot Sensor and FgRec Data

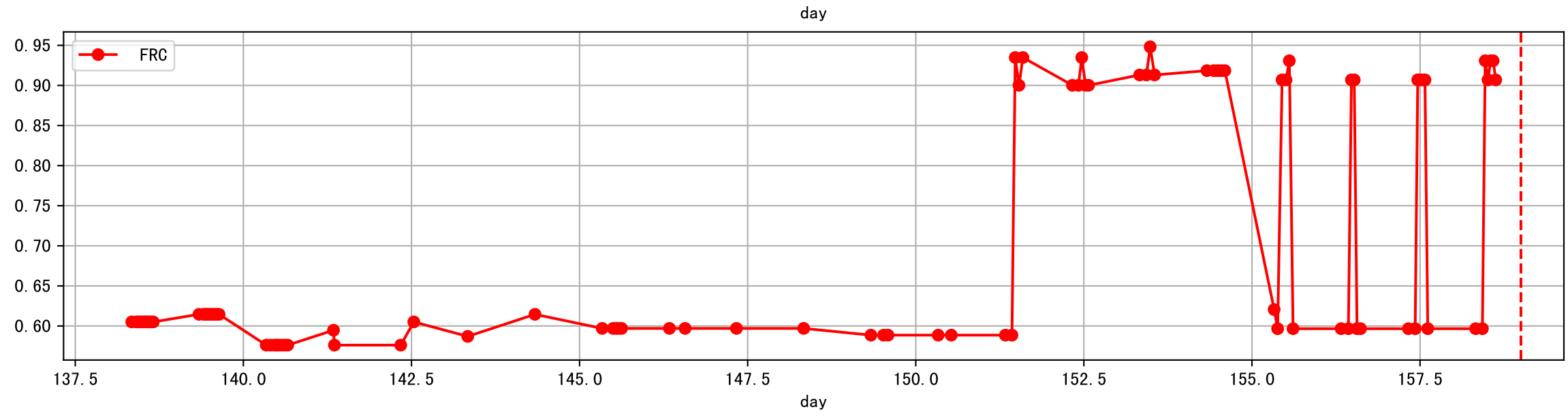


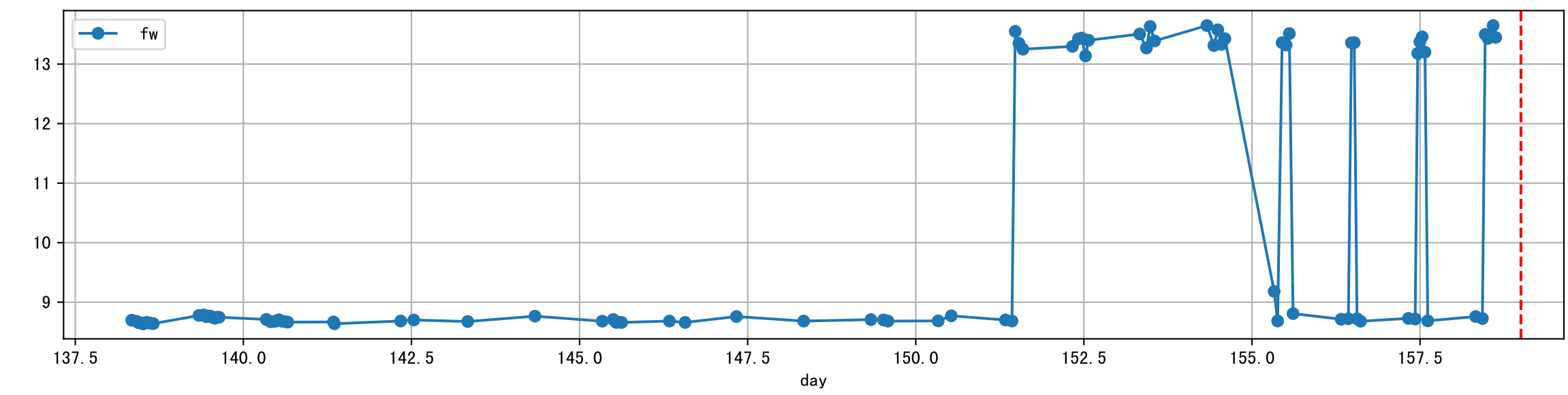


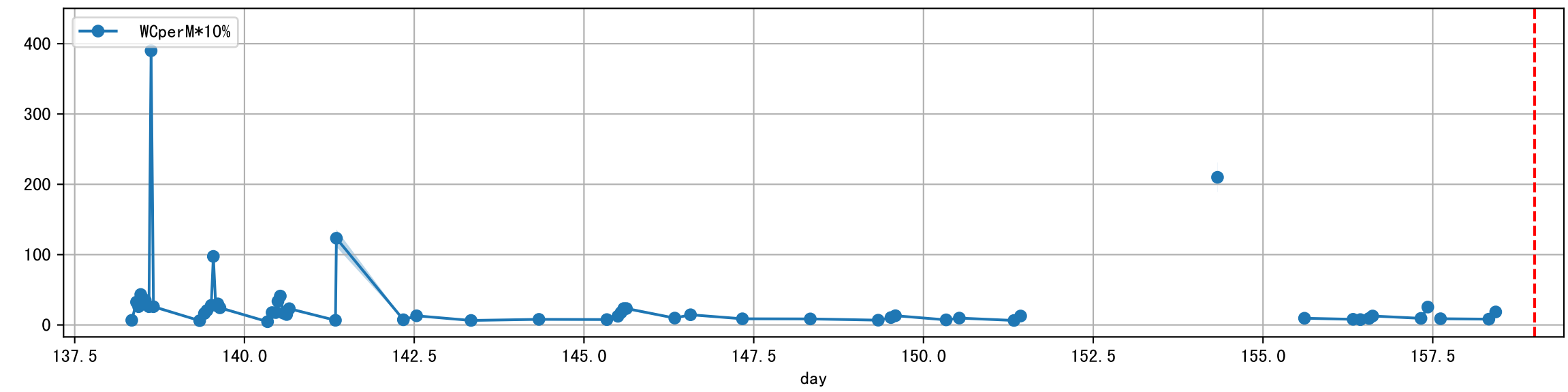


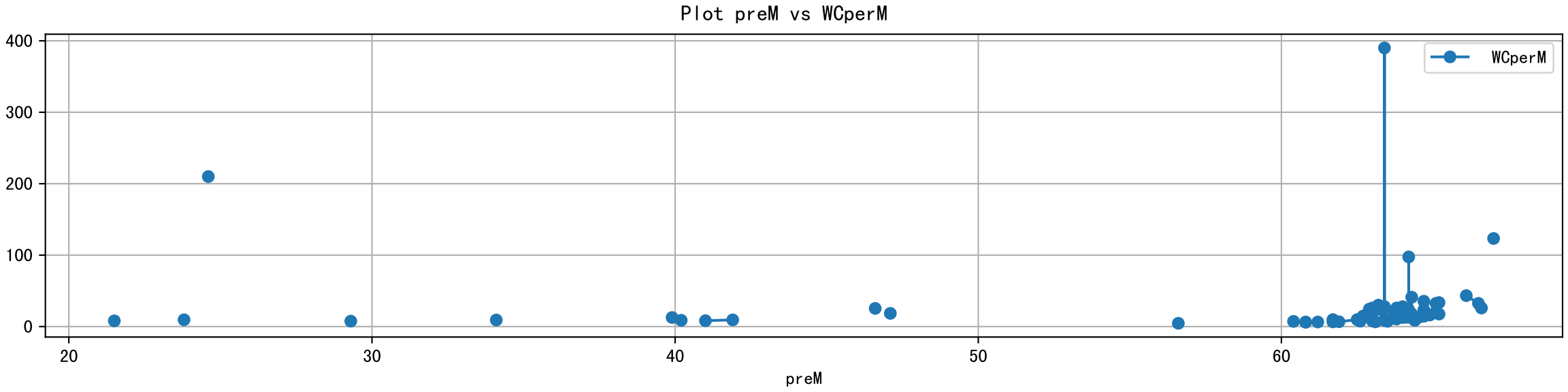




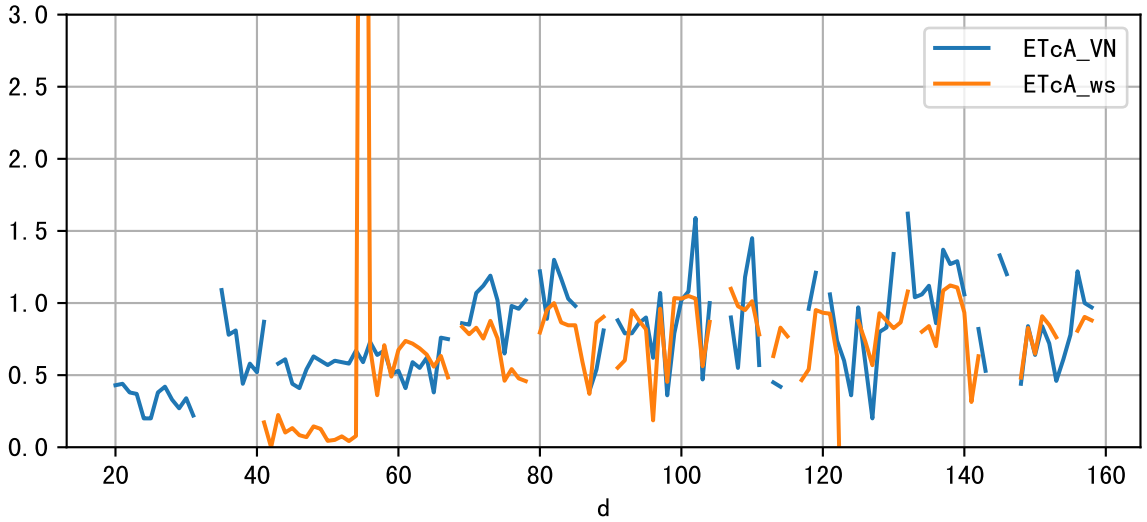


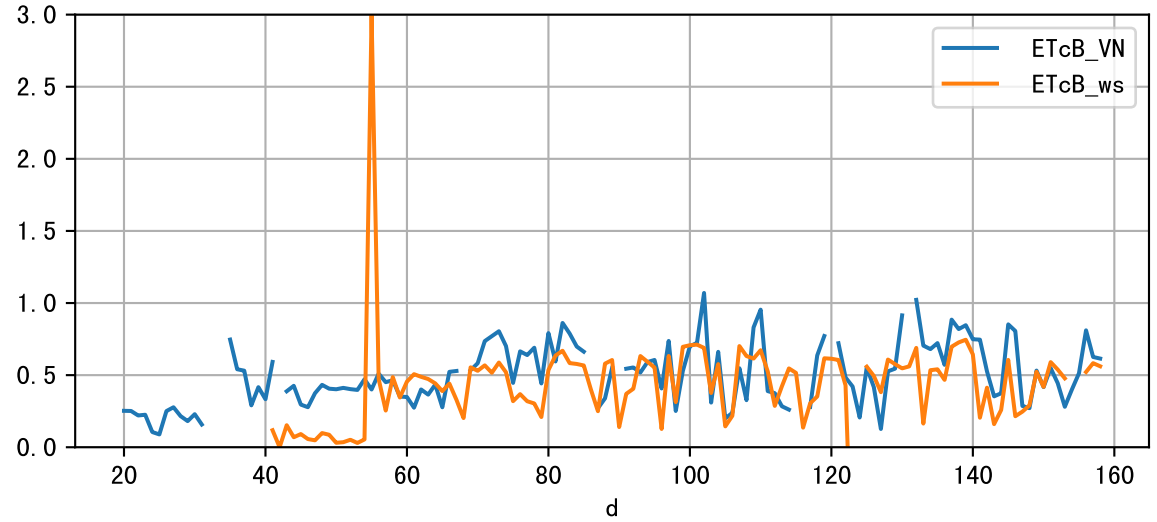


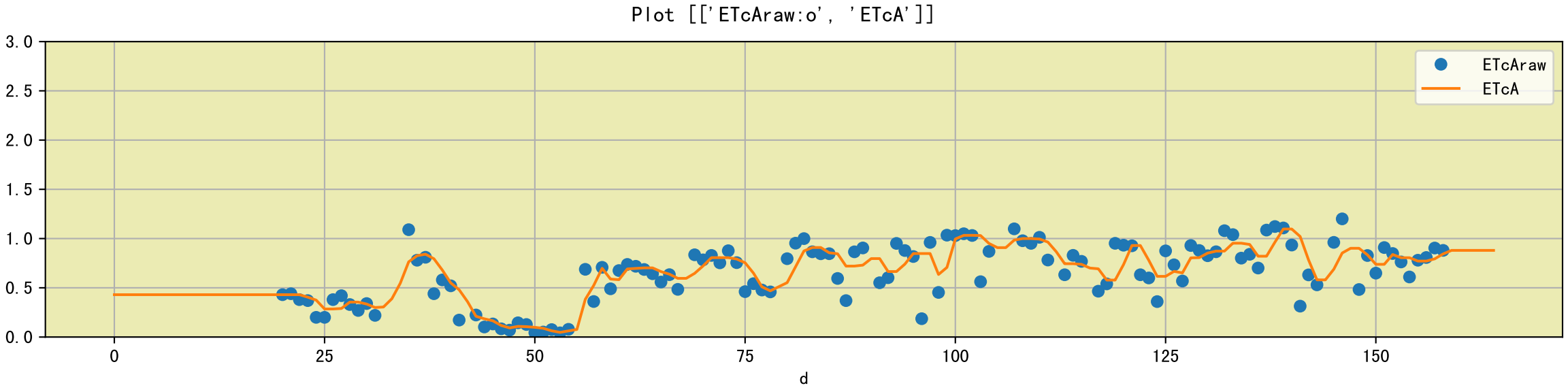


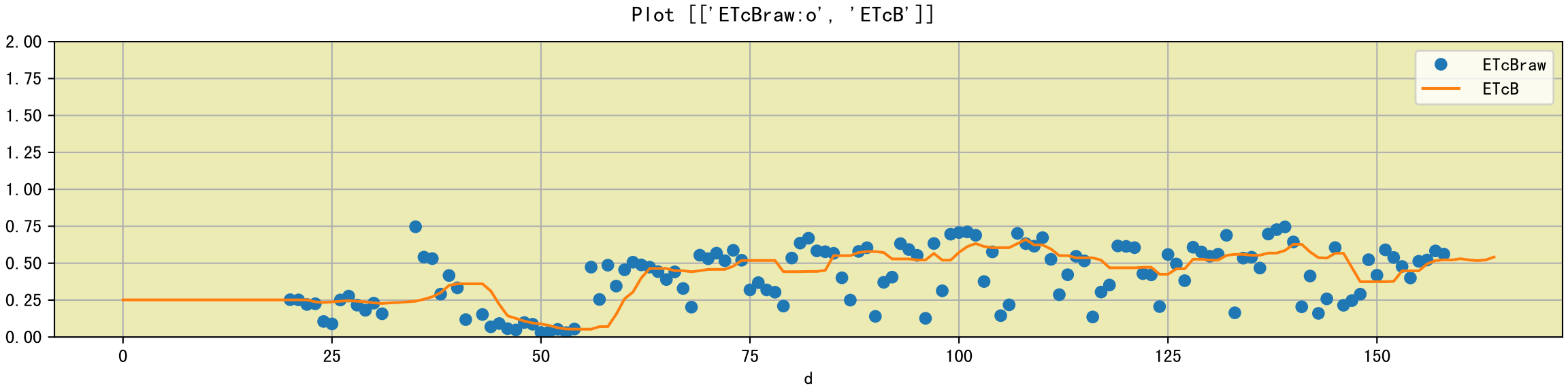

Plot preM vs WCperM
WCperM
400
300
200
100
0
20
30
40
50
60
preM

Plot [['ETcA_VN', 'ETcA_ws'], ['ETcB_VN', 'ETcB_ws']]

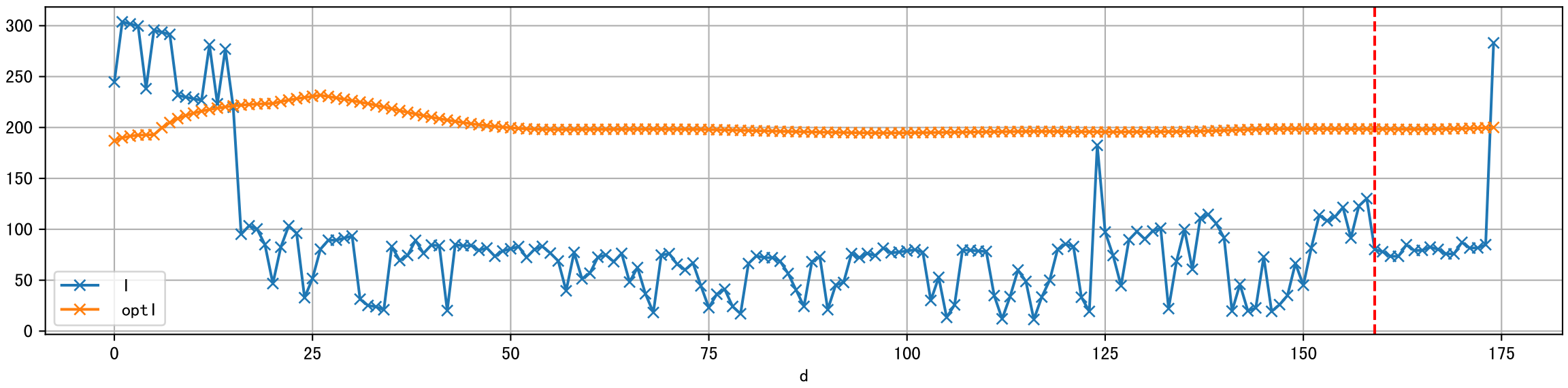


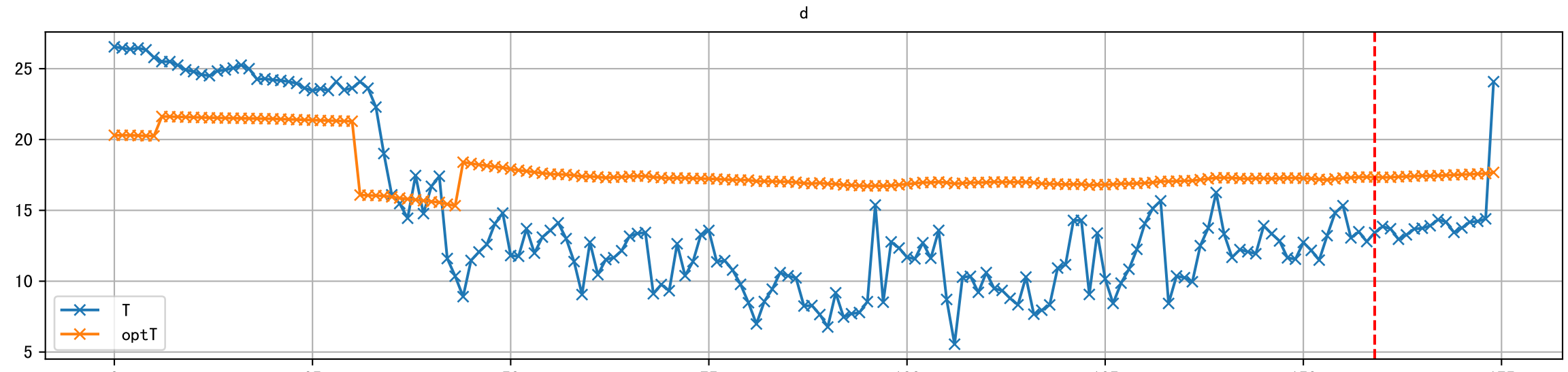


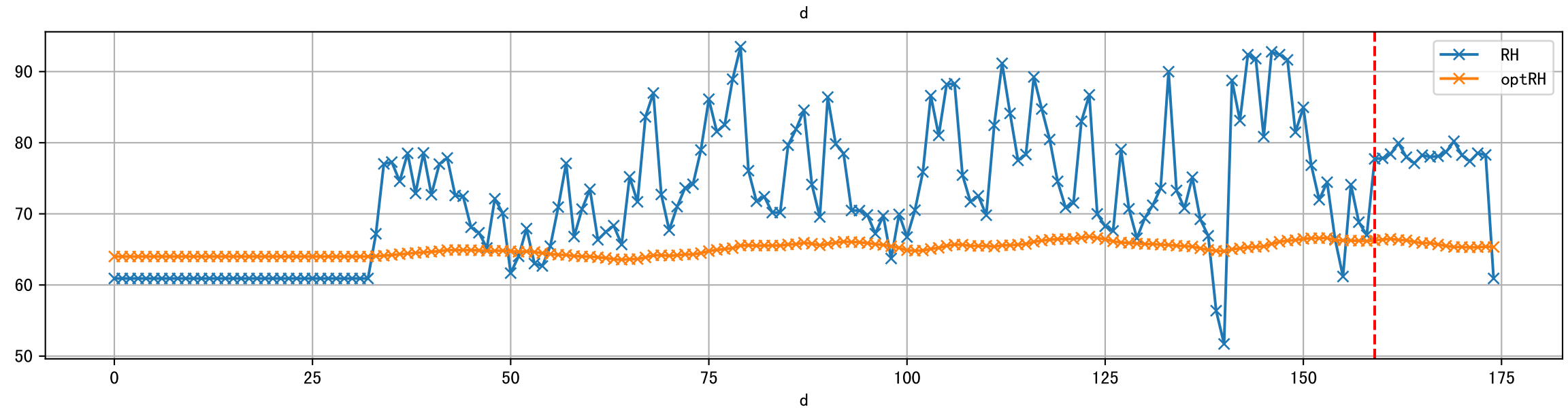

Plot [['ETcAraw:o', 'ETcA']]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
25
50
75
100
125
150
d
ETcAraw
ETcA

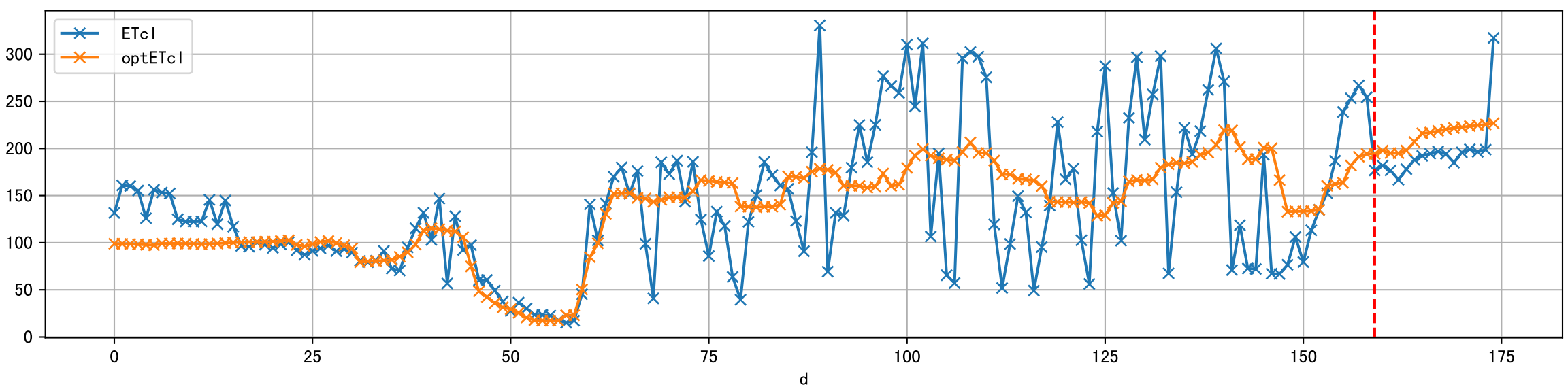

Plot [['ETcBraw:o', 'ETcB']]
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
0
25
50
75
100
125
150
d
ETcBraw
ETcB

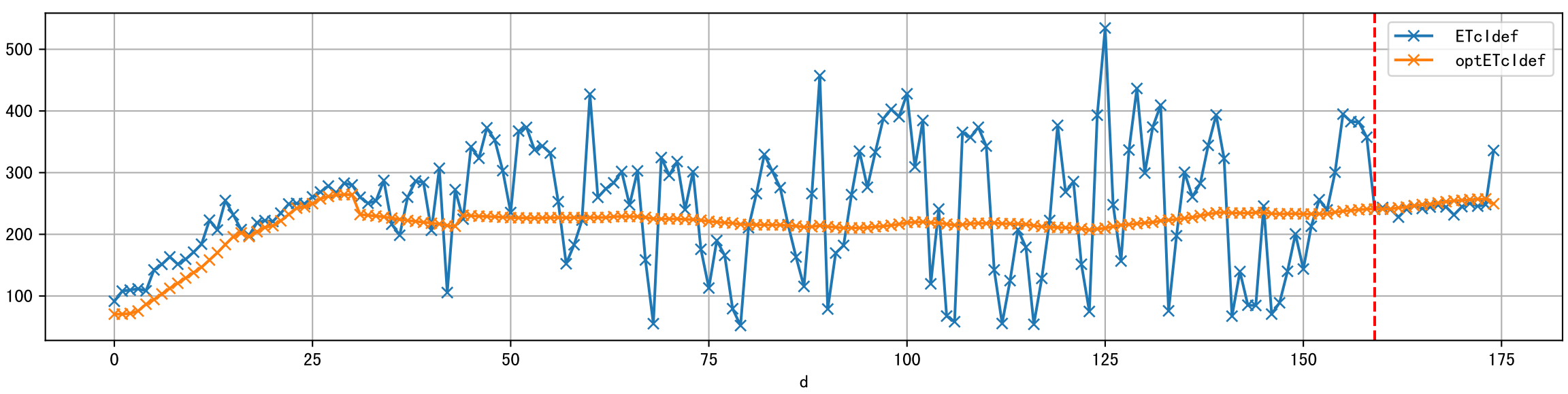
I'], ['T', 'optT'], ['RH', 'optRH'], ['ETcI', 'optETcI'], ['ETcIdef', 'optETcIdef'], ['ETo1', 'optETo1'], 'LAI', ['optEtRate', 'optEtRateDef', '

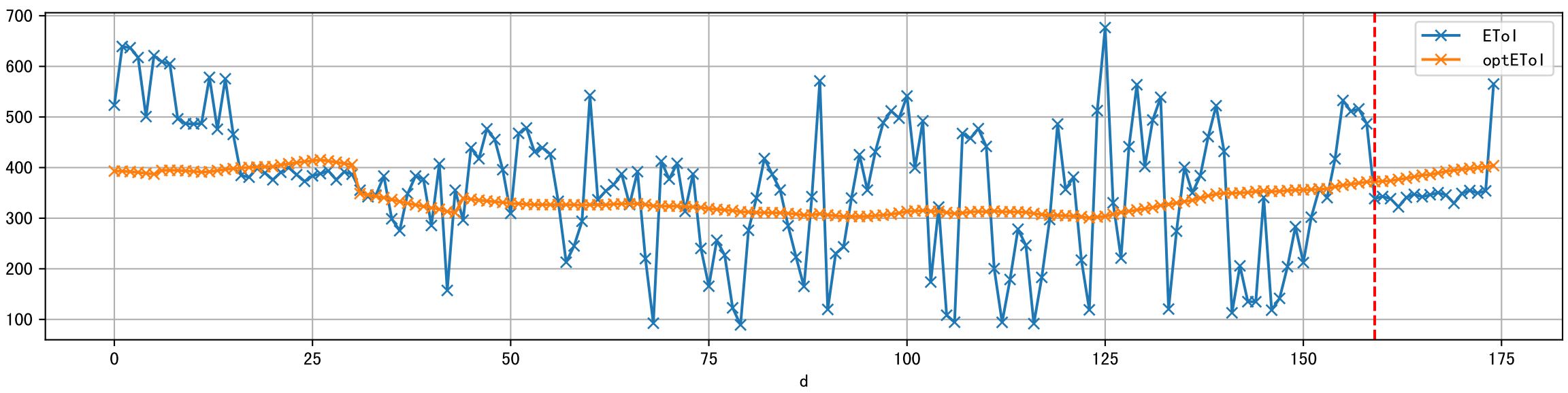


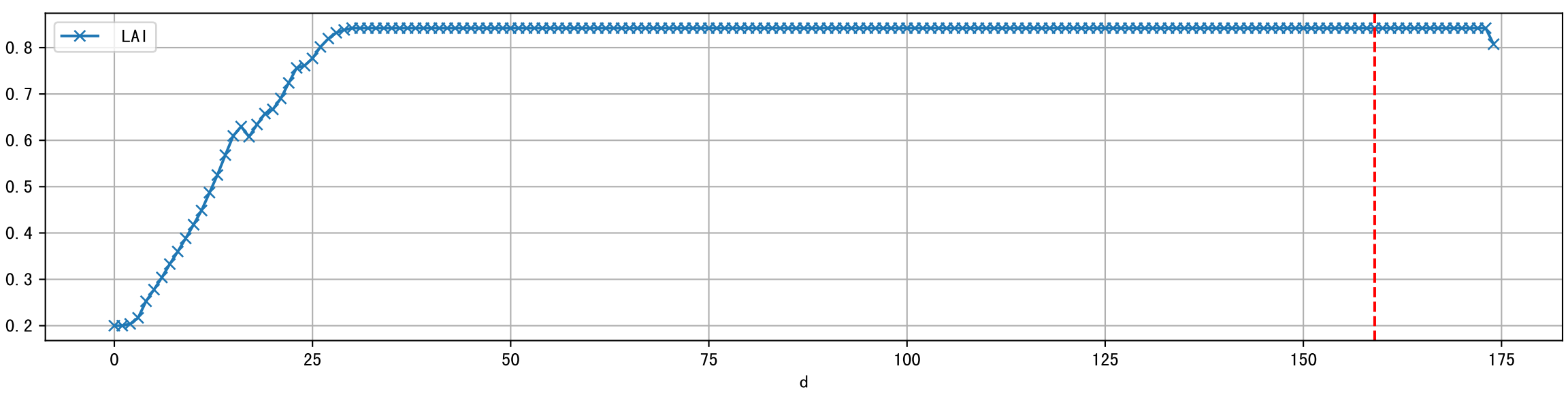


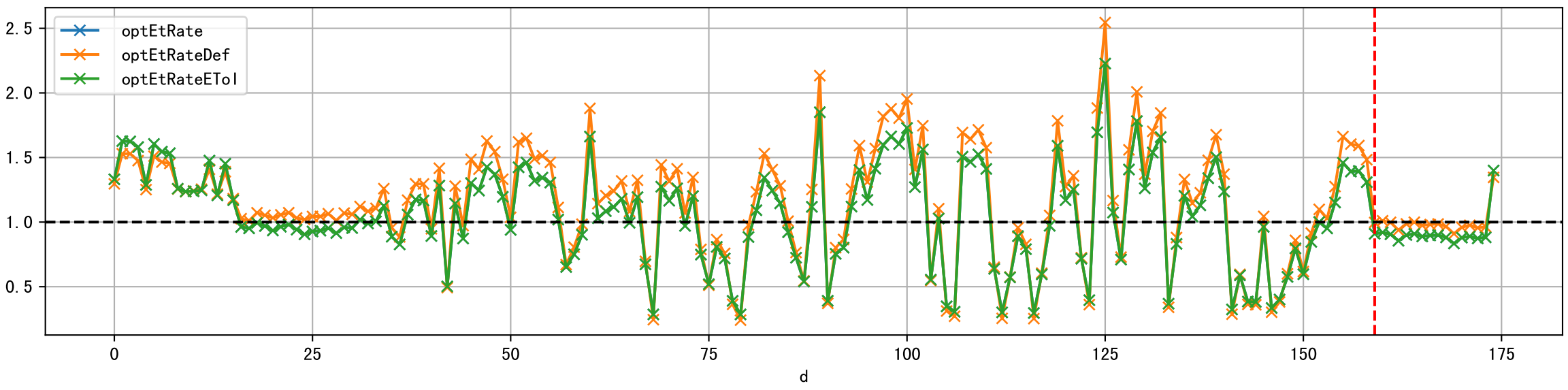


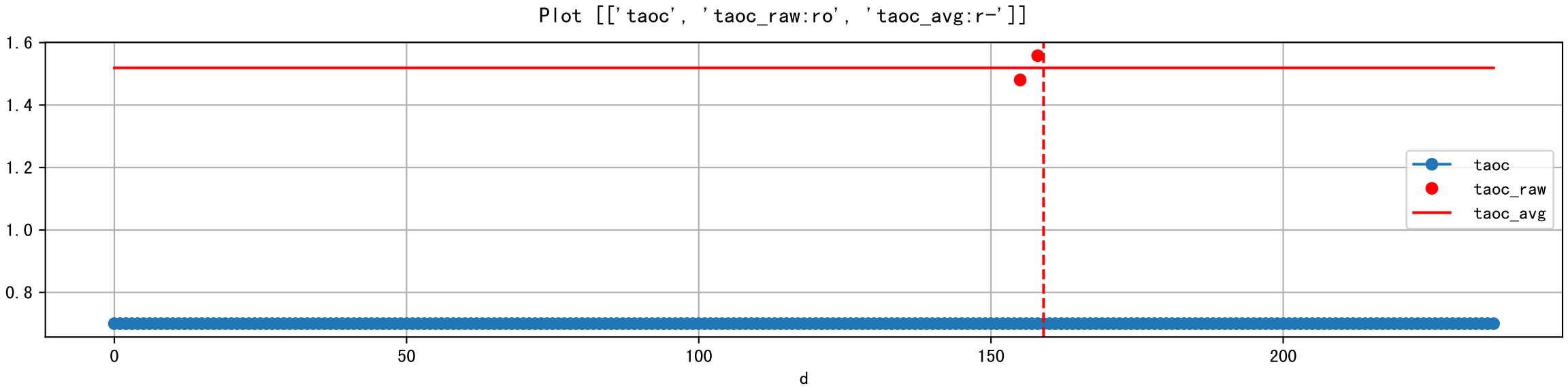


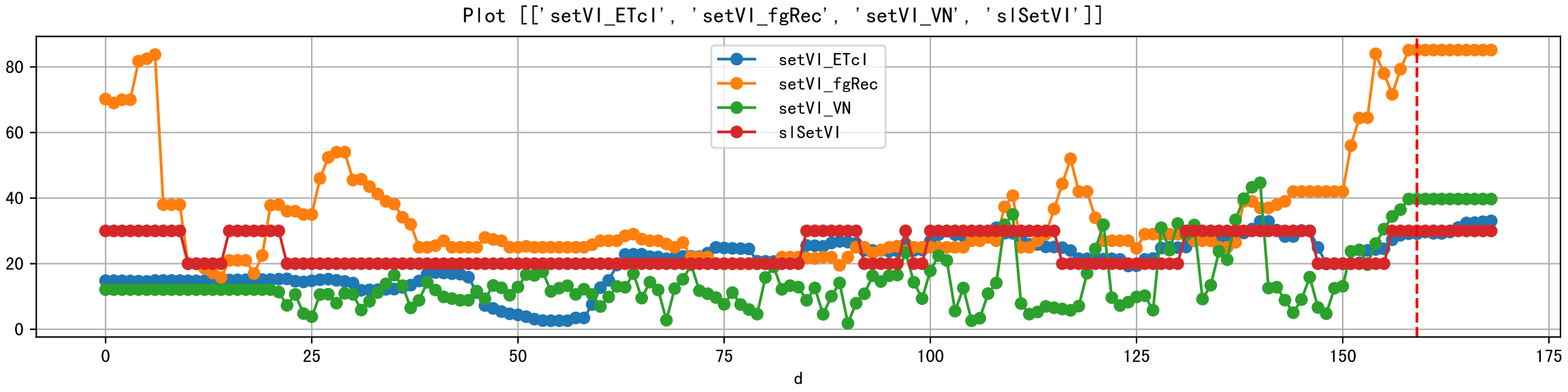


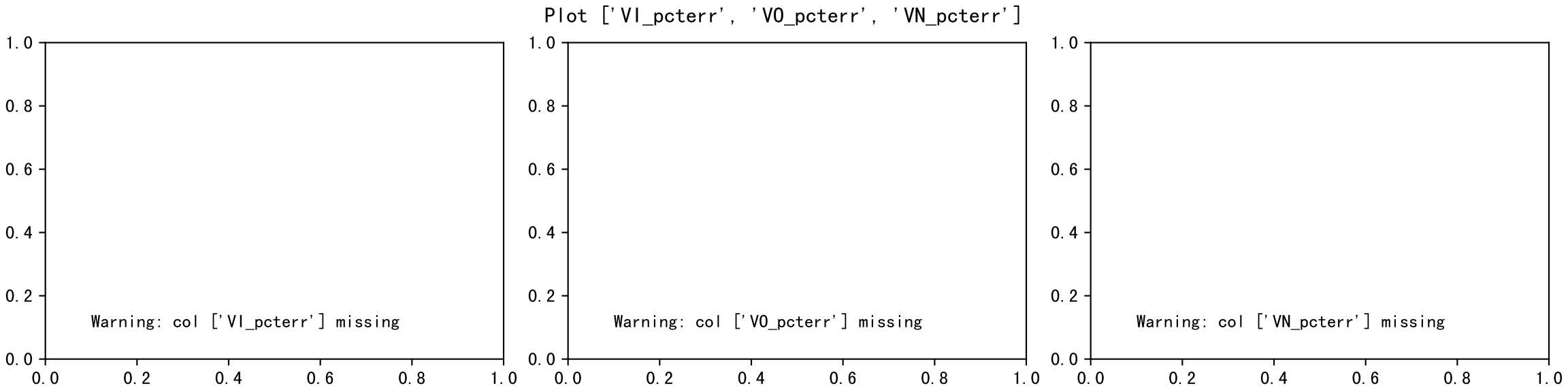


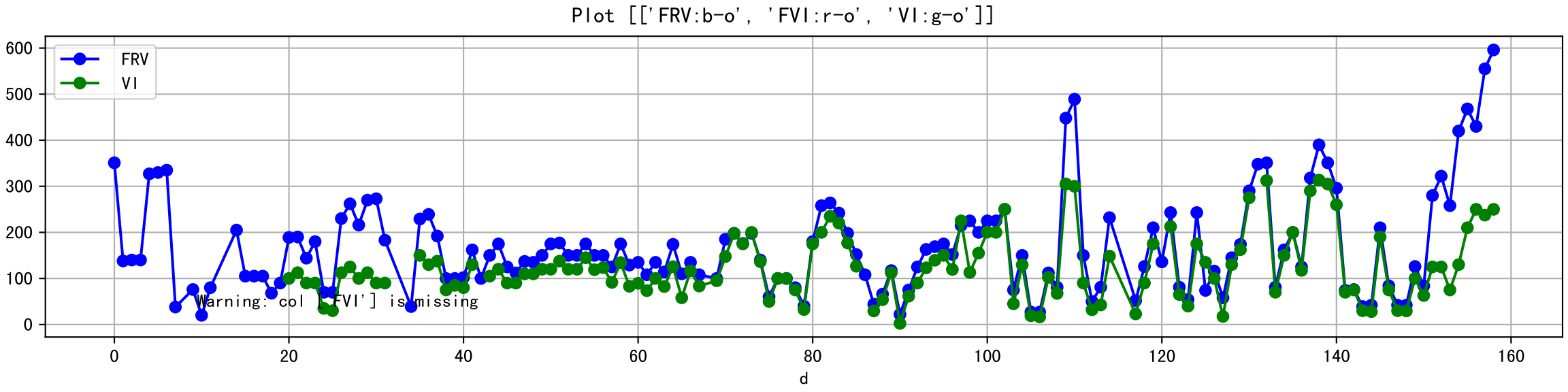


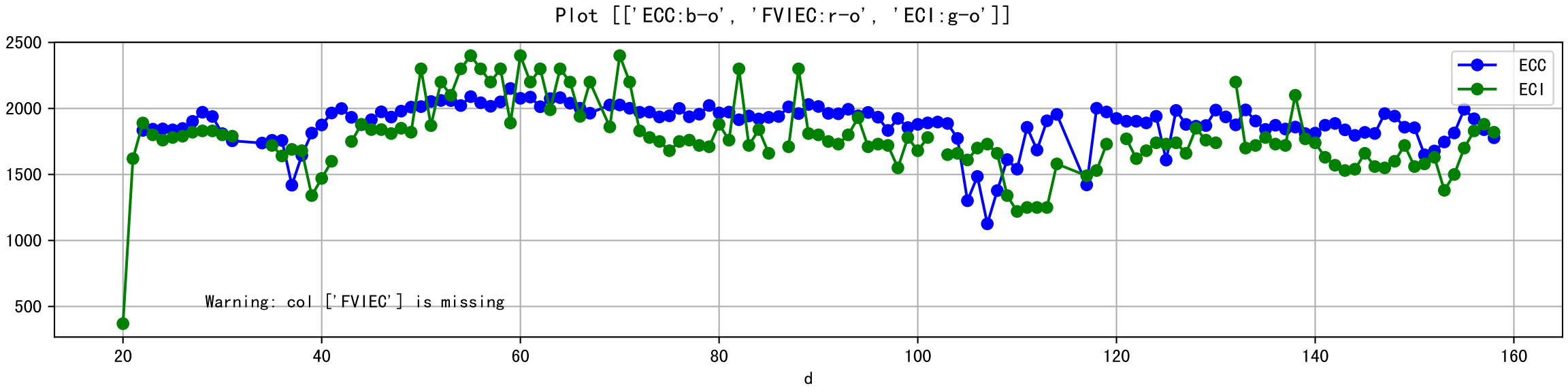


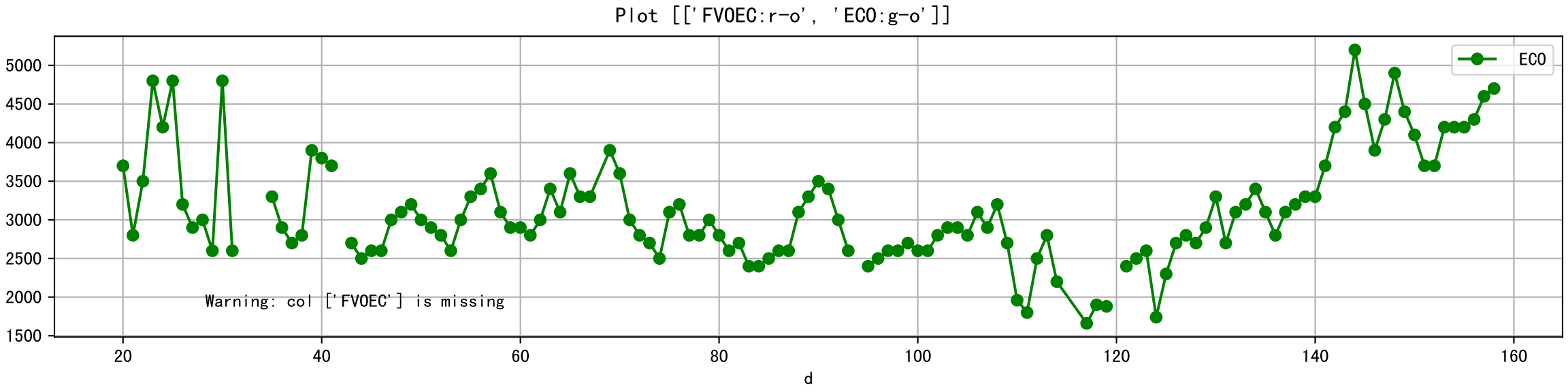

Plot [['taoc', 'taoc_raw:ro', 'taoc_avg:r-']]
1.6
1.4
1.2
1.0
0.8
0
50
100
150
200
d
taoc
taoc_raw
taoc_avg

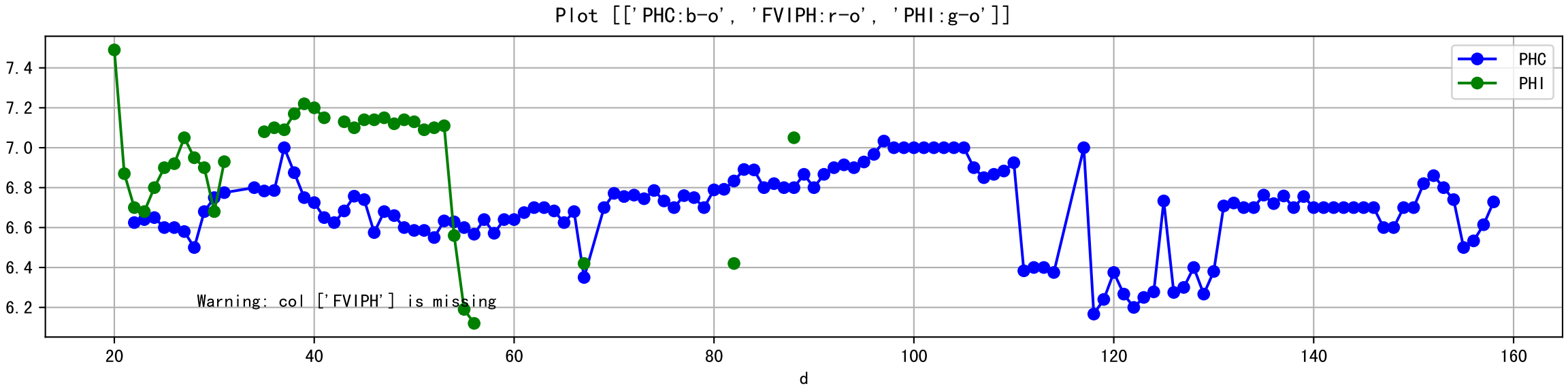

Plot [['setVI_ETcl', 'setVI_fgRec', 'setVI_VN', 'slSetVI']]
setVI_ETcl
setVI_fgRec
setVI_VN
slSetVI
0
20
40
60
80
0
25
50
75
100
125
150
175
d

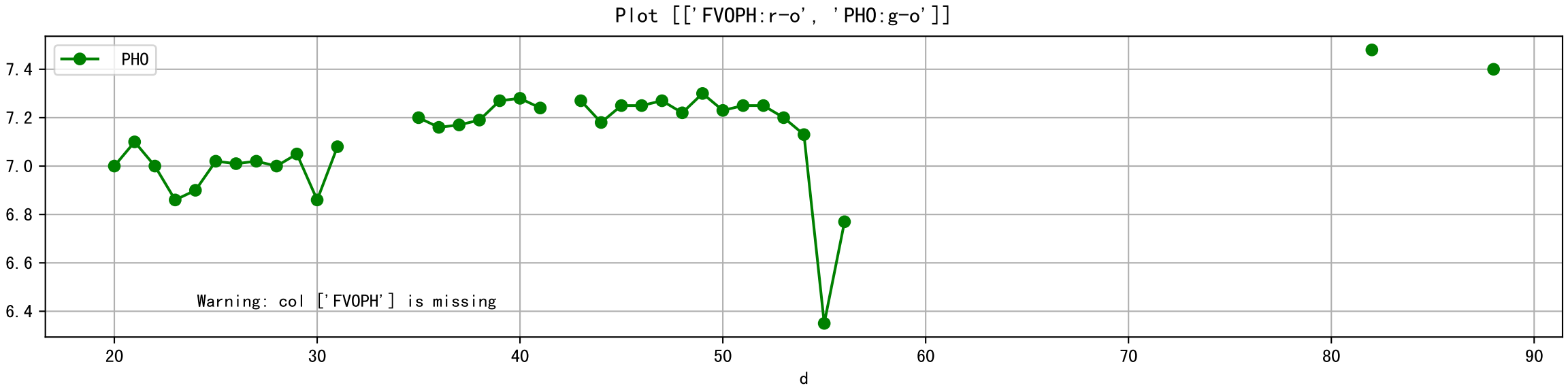

Plot ['VI_pcterr', 'VO_pcterr', 'VN_pcterr']
Warning: col ['VI_pcterr'] missing
Warning: col ['VO_pcterr'] missing
Warning: col ['VN_pcterr'] missing
0.0
0.2
0.4
0.6
0.8
1.0

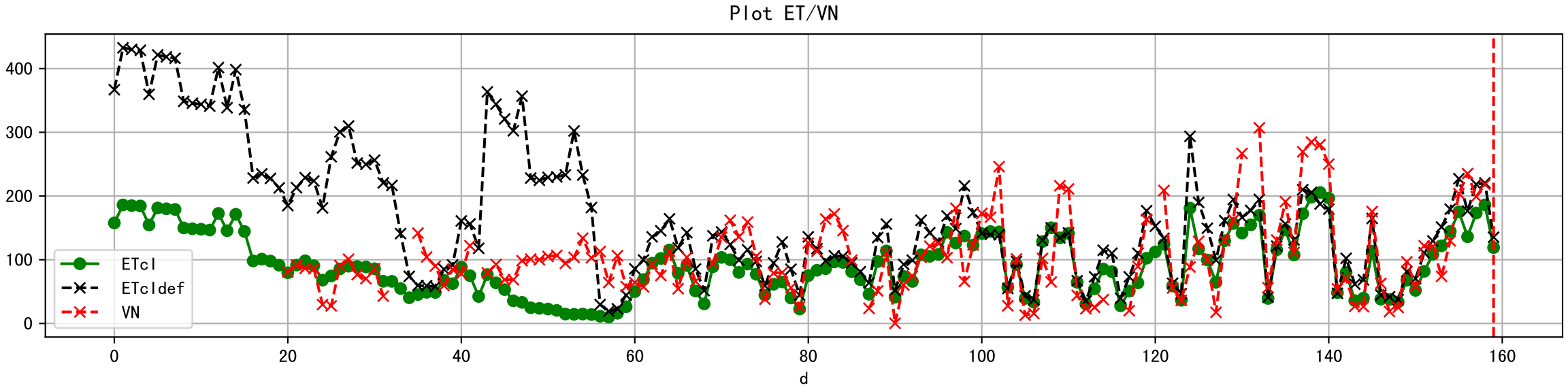

Plot [['FRV:b-o', 'FVI:r-o', 'VI:g-o']]
FRV
VI
Warning: col ['FVI'] is missing
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
d


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

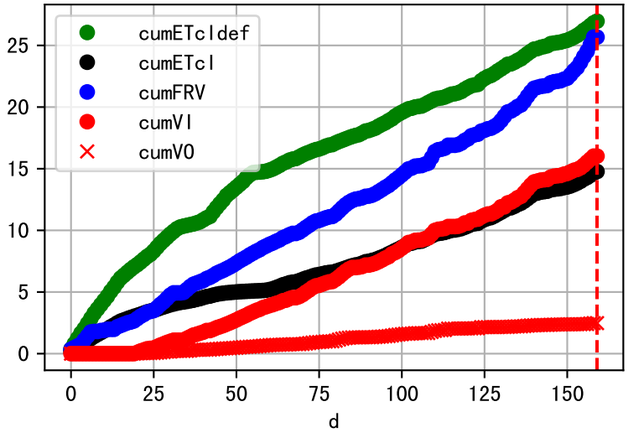

Plot [['FVOEC:r-o', 'ECO:g-o']]
ECO
Warning: col ['FVOEC'] is missing
5000
4500
4000
3500
3000
2500
2000
1500
20
40
60
80
100
120
140
160
d

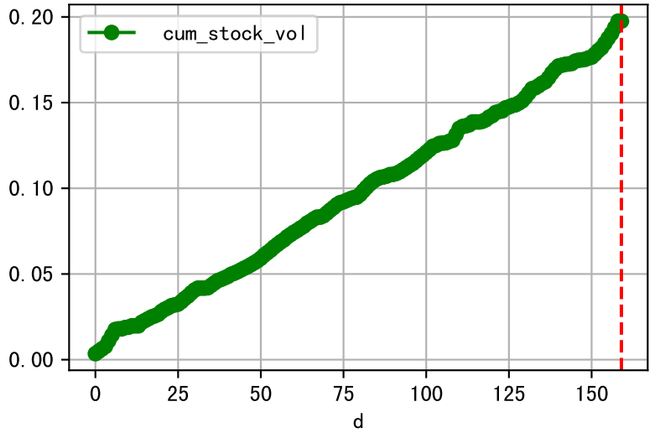

Plot [['PHC:b-o', 'FVIPH:r-o', 'PHI:g-o']]
PHC
PHI
Warning: col ['FVIPH'] is missing
7.4
7.2
7.0
6.8
6.6
6.4
6.2
20
40
60
80
100
120
140
160
d

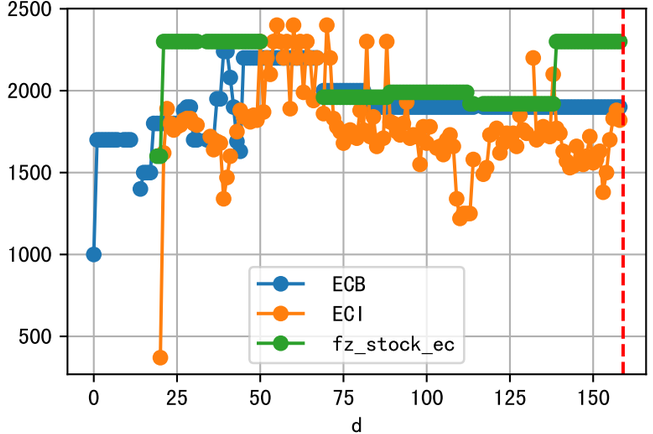

Plot [['FVOPH:r-o', 'PHO:g-o']]
PHO
7.4
7.2
7.0
6.8
6.6
6.4
Warning: col ['FVOPH'] is missing
20
30
40
50
60
70
80
90
d

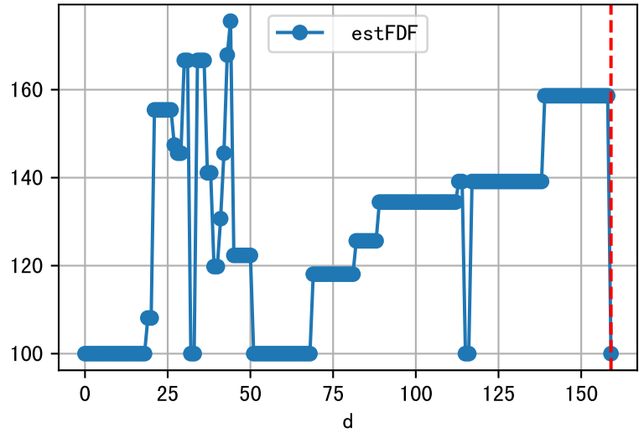

Plot ET/VN
ETcl
ETcldef
VN
d
0
20
40
60
80
100
120
140
160
0
100
200
300
400

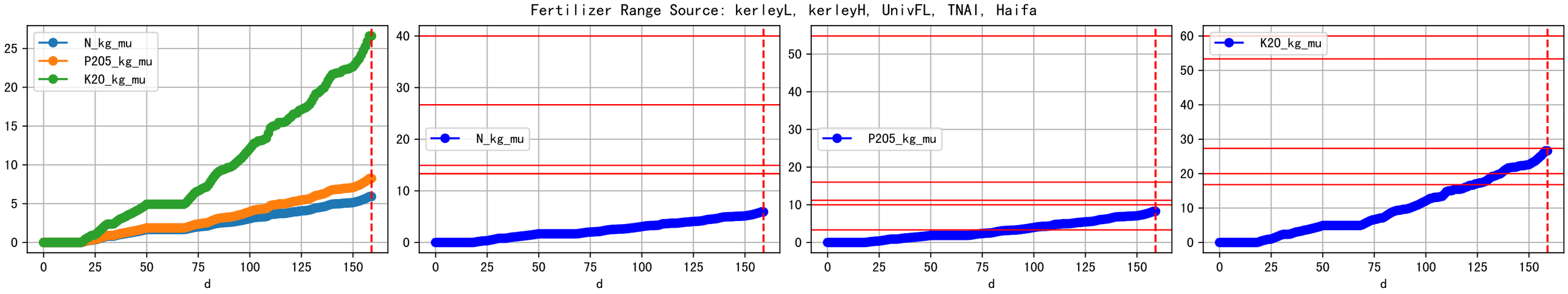
Plot Fv and fertilizer usage

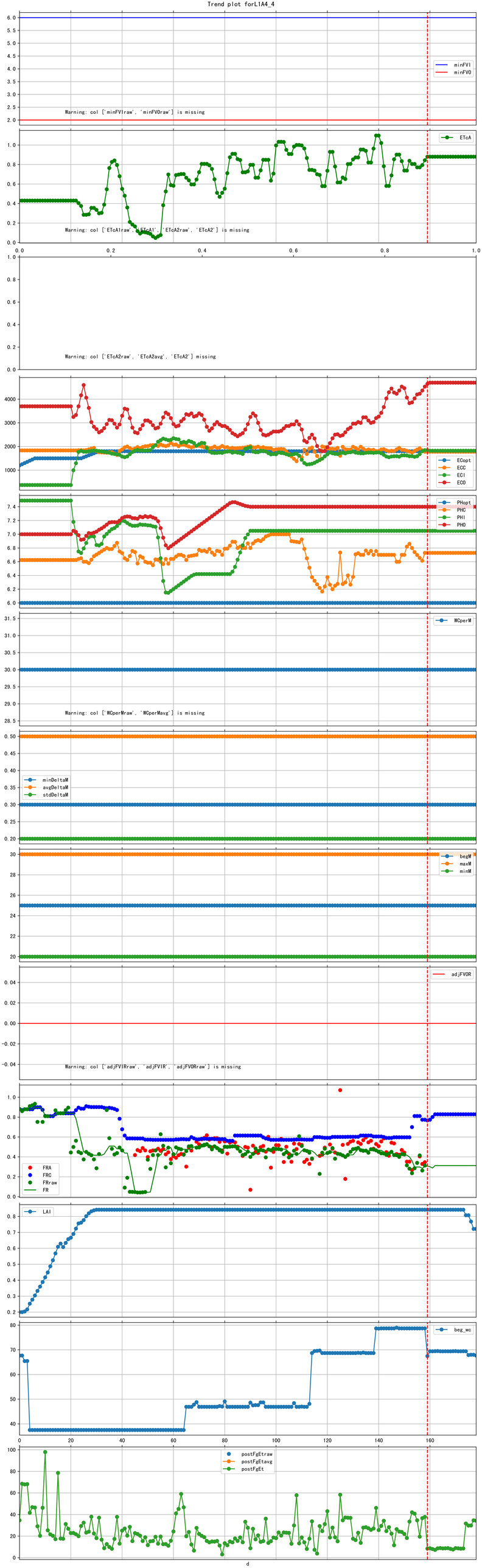


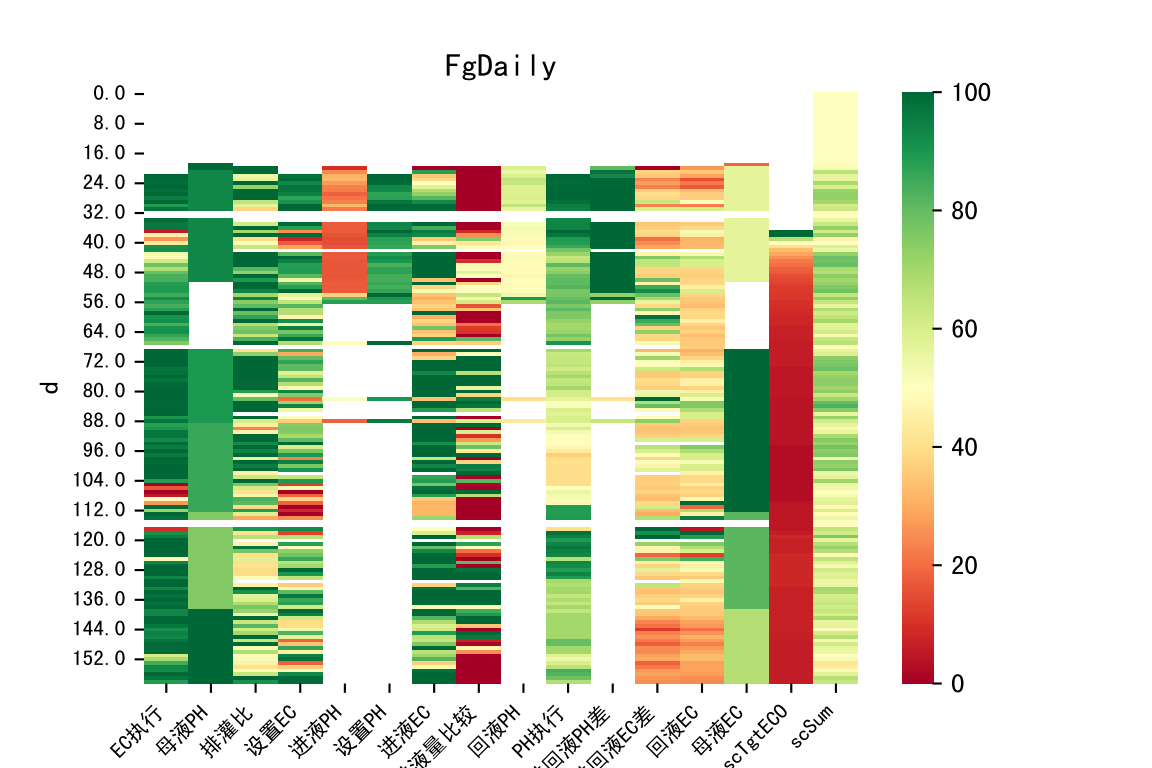




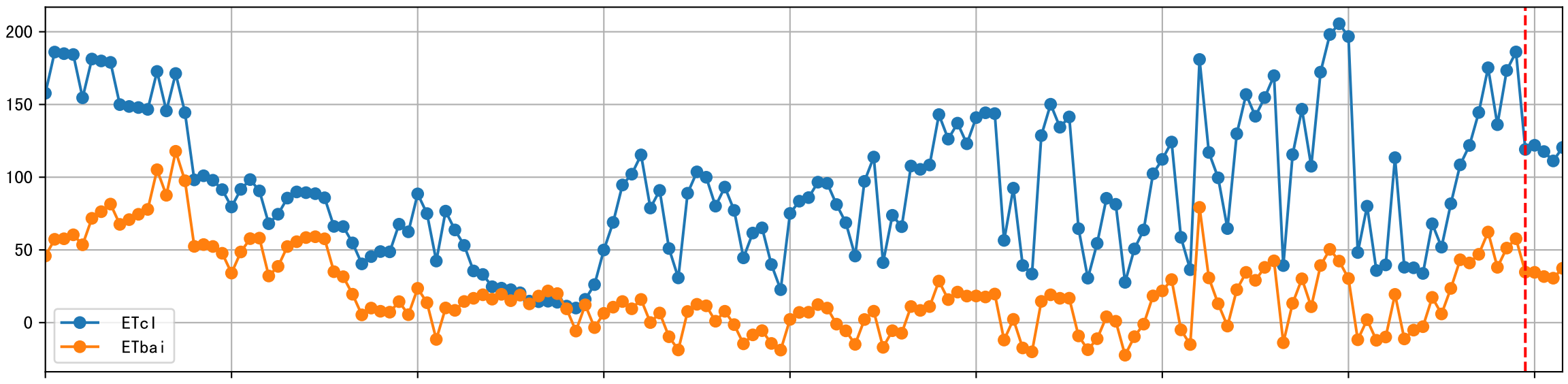


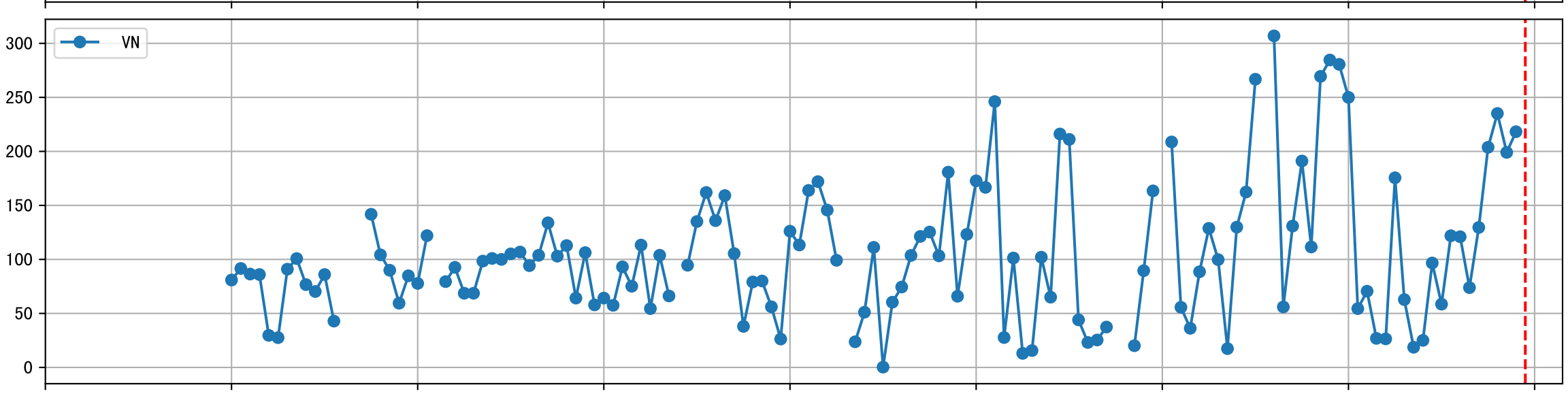

Fertilizer Range Source: kerleyL, kerleyH, UnivFL, TNAI, Haifa
N_kg_mu
P2O5_kg_mu
K2O_kg_mu
d

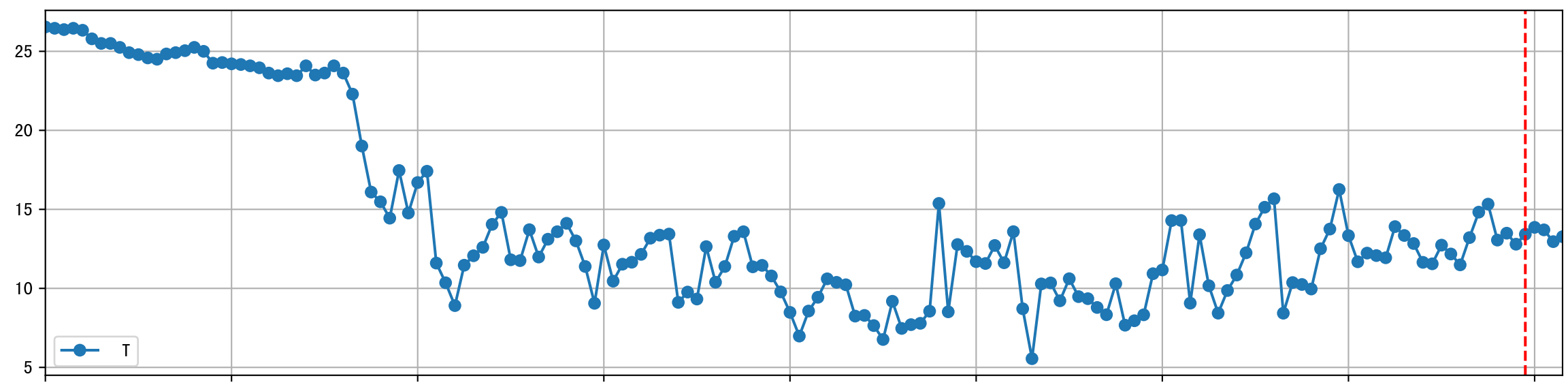

Trend plot forL1A4_4
minFVI
minFVO
Warning: col ['minFVIraw', 'minFVOraw'] is missing
ETcA
Warning: col ['ETcA1raw', 'ETcA1', 'ETcA2raw', 'ETcA2'] is missing
Warning: col ['ETcA2raw', 'ETcA2avg', 'ETcA2'] missing
ECopt
ECC
ECI
ECO
PHopt
PHC
PHI
PHO
WCperM
Warning: col ['WCperMraw', 'WCperMavg'] is missing
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

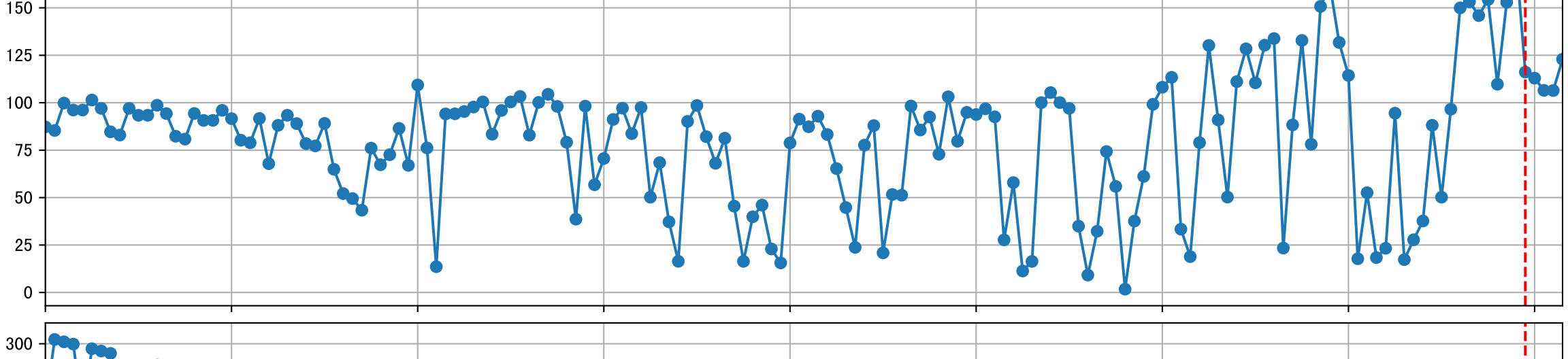

FgDaily
d
0.0
8.0
16.0
24.0
32.0
40.0
48.0
56.0
64.0
72.0
80.0
88.0
96.0
104.0
112.0
120.0
128.0
136.0
144.0
152.0
100
80
60
40
20
0
EC执行
母液PH
排灌比
设置EC
进液PH
设置PH
进液EC
进液量比较
回液PH
PH执行
回液PH差
回液EC差
回液EC
母液EC
scTgtEC0
scSum

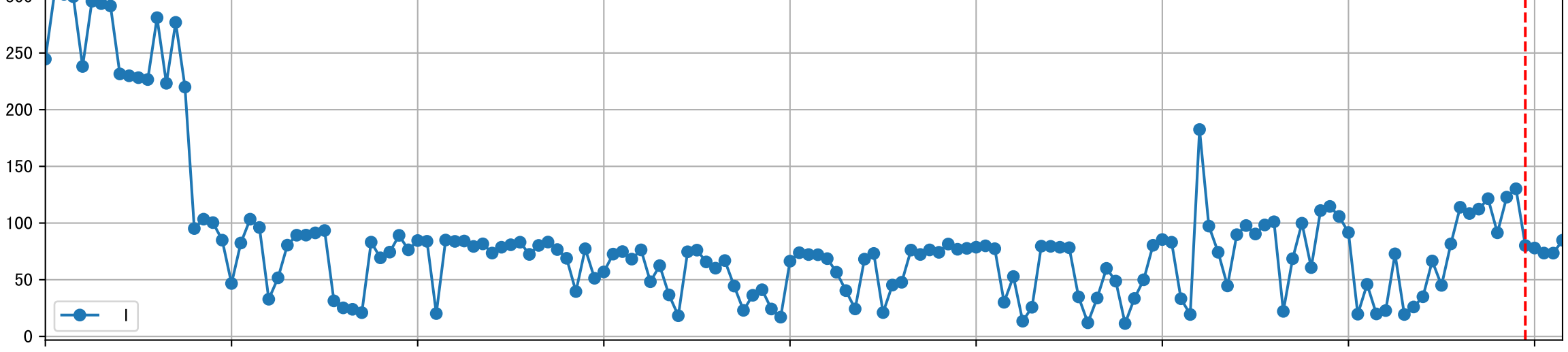
L1A4_4



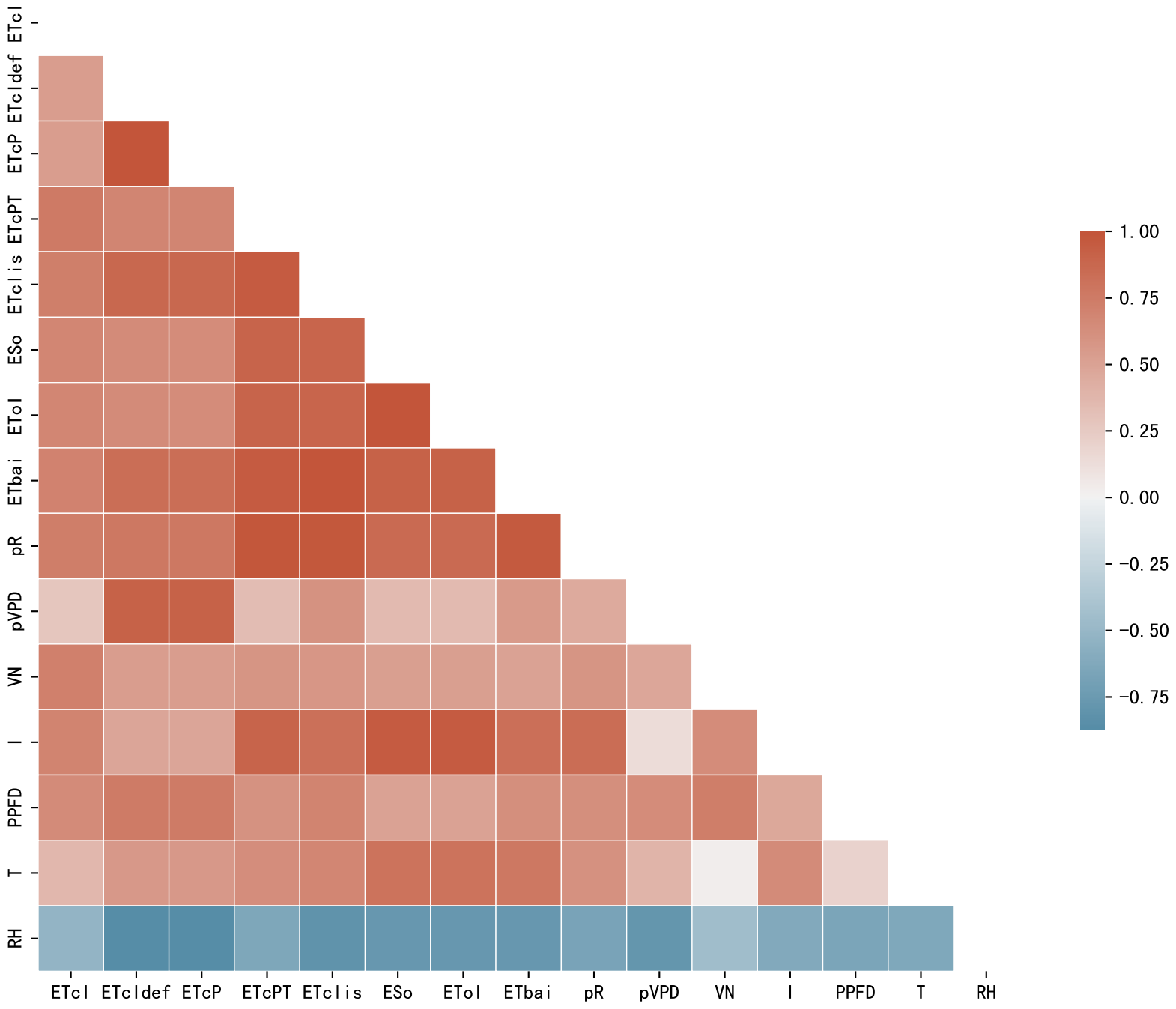


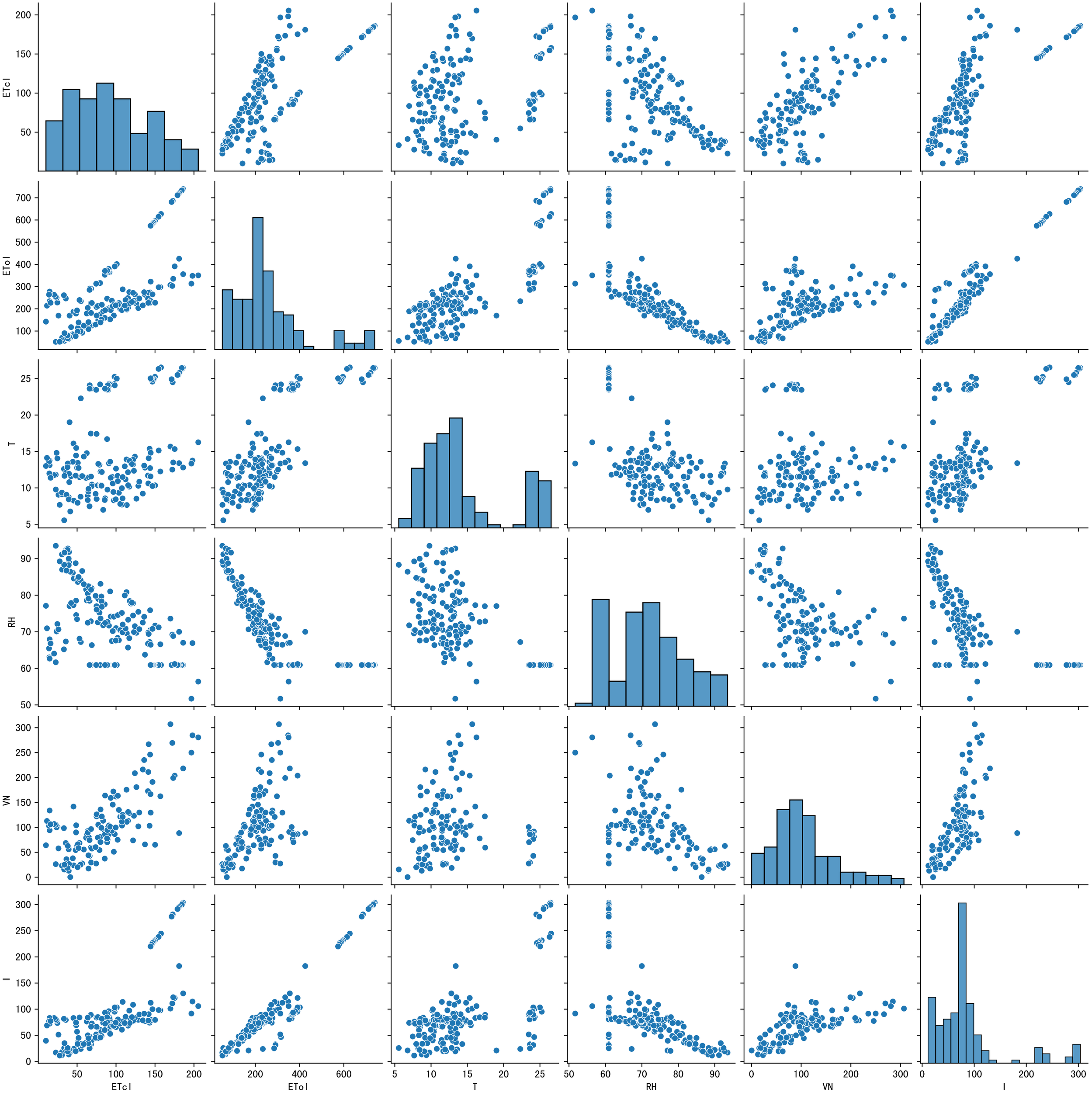


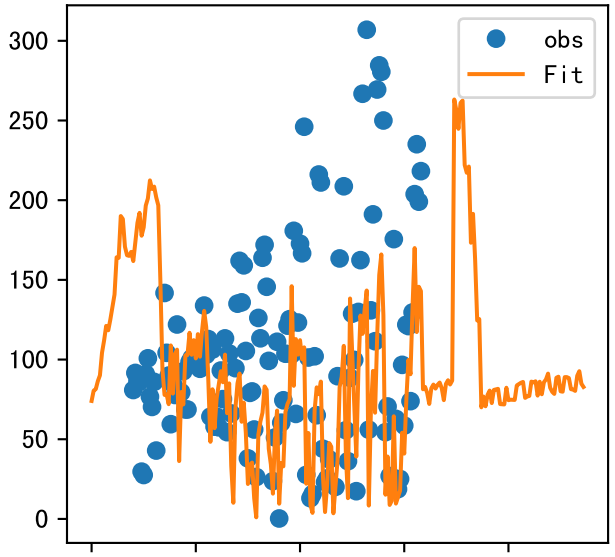


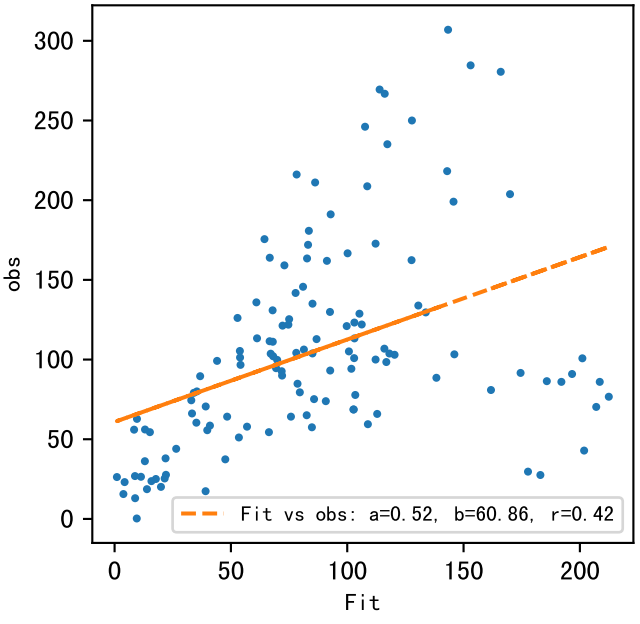


d

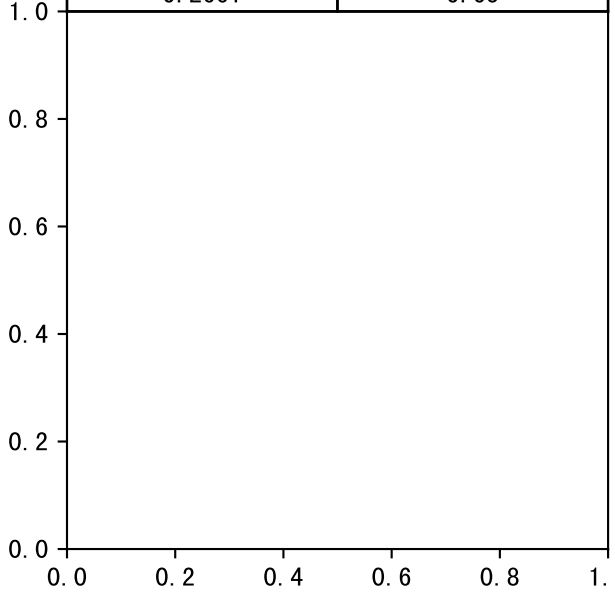

ETcl
ETcldef
ETcP
ETcPT
ETclis
ESo
ETol
ETbai
pR
pVPD
VN
I
PPFD
T
RH
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75

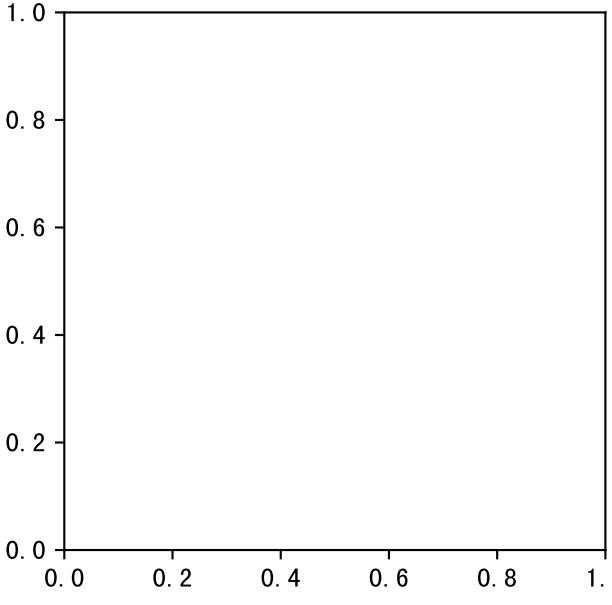

ETcl
ETol
T
RH
VN
I
ETcl
ETol
T
RH
VN
I

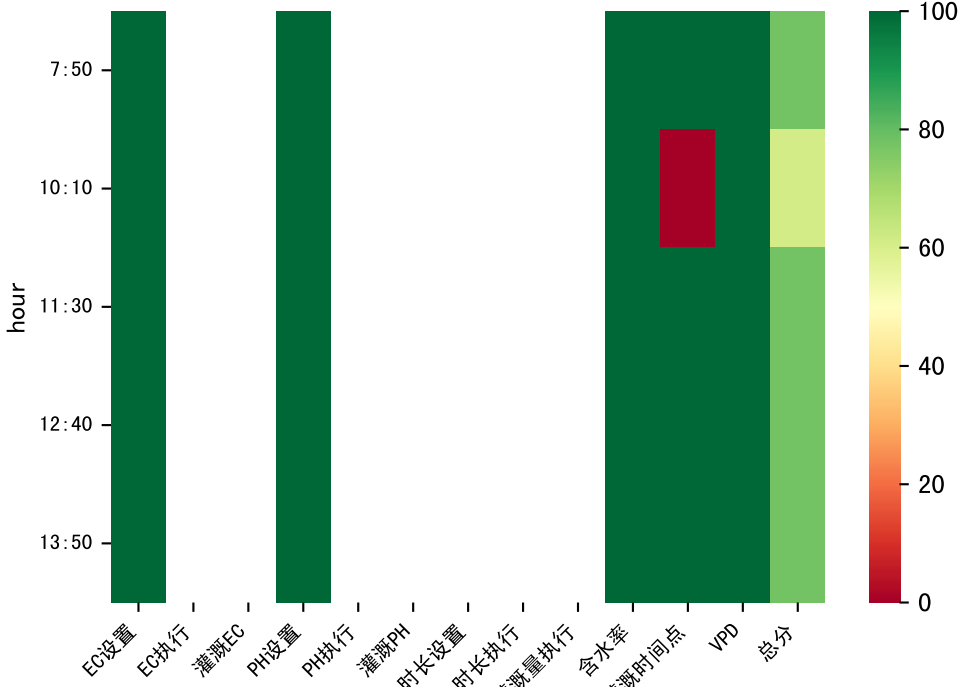




baiA	baiB
0.2661	0.05

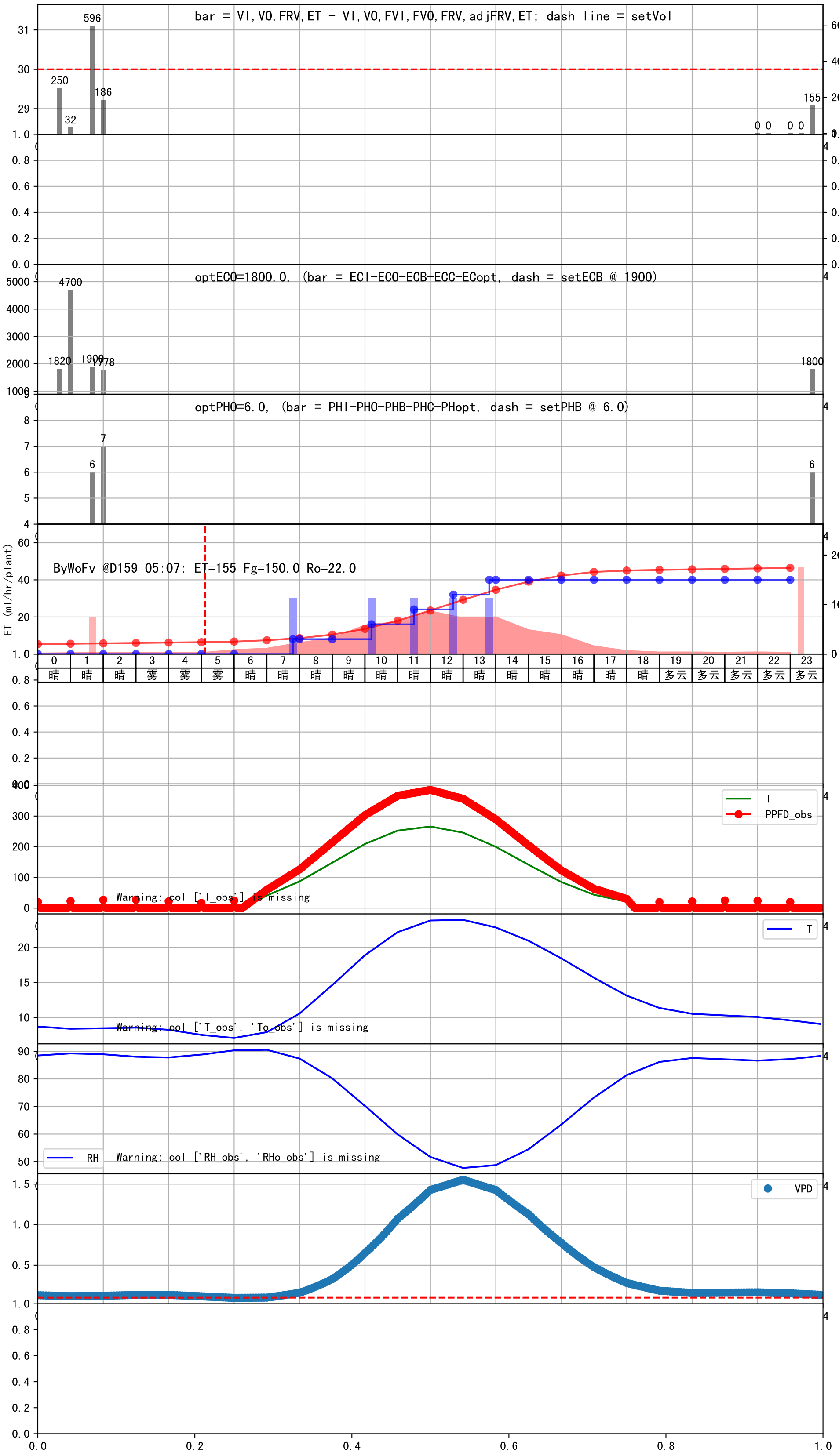


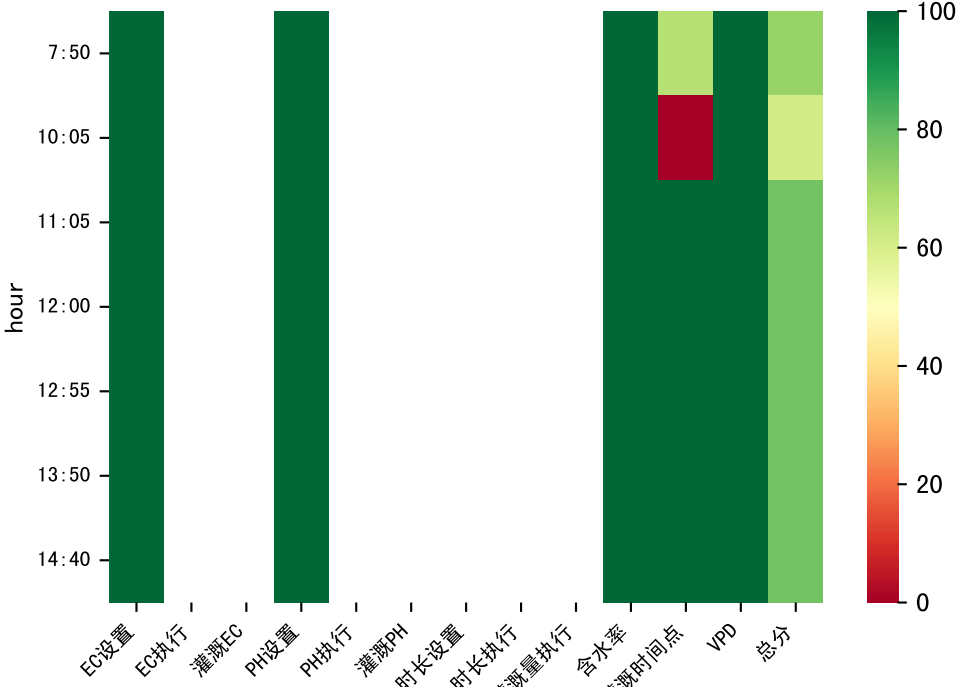



hour
7:50
10:10
11:30
12:40
13:50
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:50	97	30.0	0.122	晴	待执行@07:50 自主（未用传感器）
10:10	97	30.0	0.122	晴	预期@10:10 自主（未用传感器）
11:30	97	30.0	0.122	晴	预期@11:30 自主（未用传感器）
12:40	97	30.0	0.122	晴	预期@12:40 自主（未用传感器）
13:50	97	30.0	0.122	晴	预期@13:50 自主（未用传感器）
总计	485.0 (5次)	150.0			建议进液EC：1900， PH：6.0

L1A4_4, Day=159 (2026-03-14)

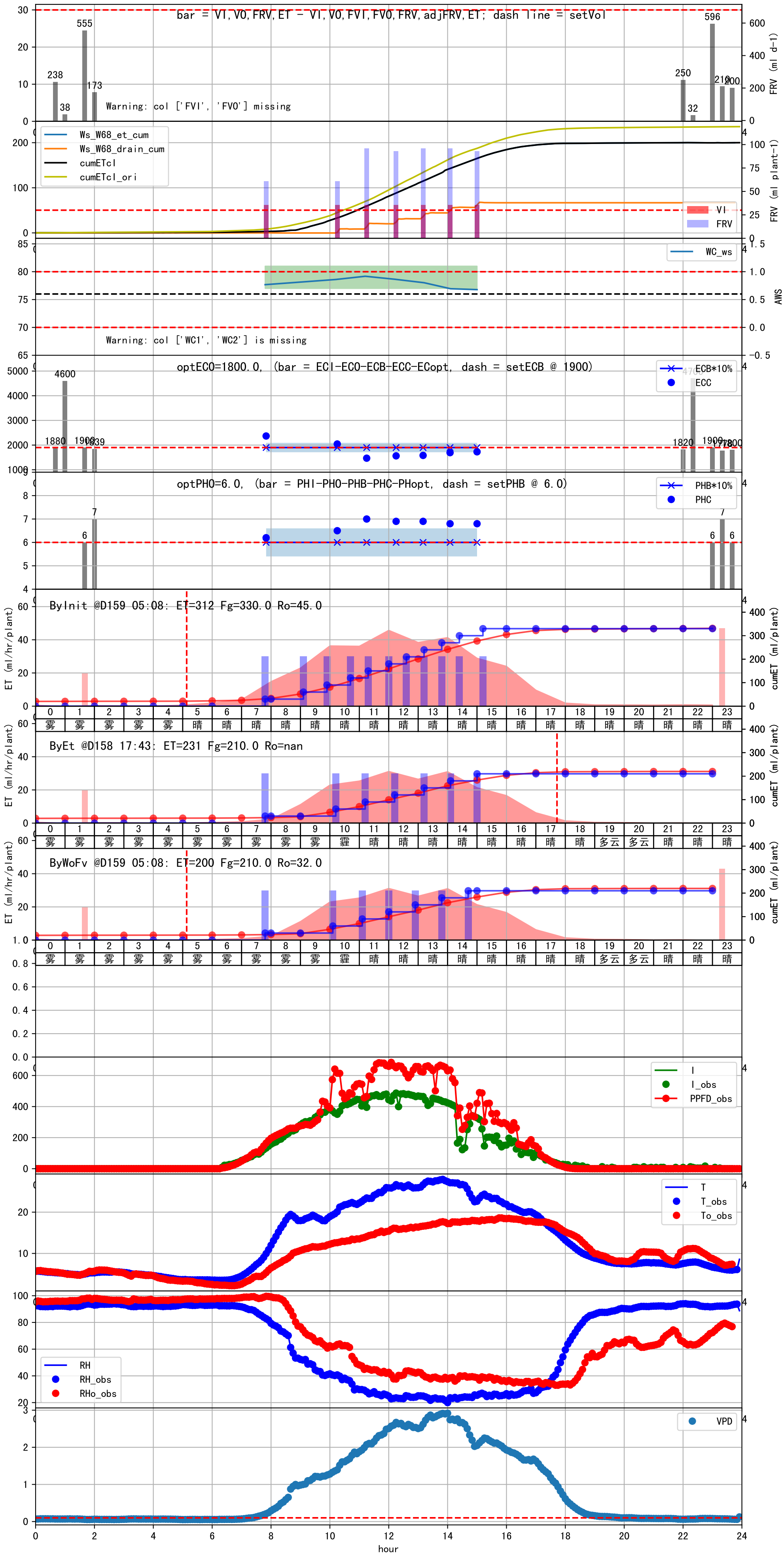


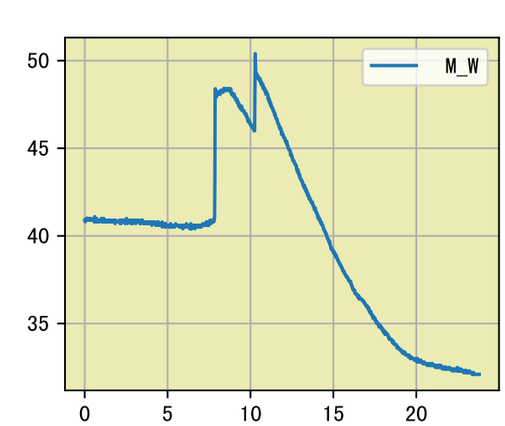

hour
7:50
10:05
11:05
12:00
12:55
13:50
14:40
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
含水率
VPD
总分
100
80
60
40
20
0

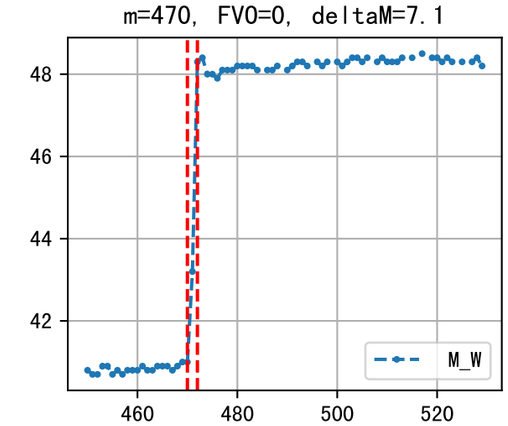
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:50	103	30.0	0.122	雾	假设@07:50 自动（未用传感器）
10:05	103	30.0	0.122	霾	假设@10:05 自动（未用传感器）
11:05	103	30.0	0.122	晴	假设@11:05 自动（未用传感器）
12:00	103	30.0	0.122	晴	假设@12:00 自动（未用传感器）
12:55	103	30.0	0.122	晴	假设@12:55 自动（未用传感器）
13:50	103	30.0	0.122	晴	假设@13:50 自动（未用传感器）
14:40	103	30.0	0.122	晴	假设@14:40 自动（未用传感器）
总计	721.0 (7次)	210.0			建议进液EC：1900， PH：6.0

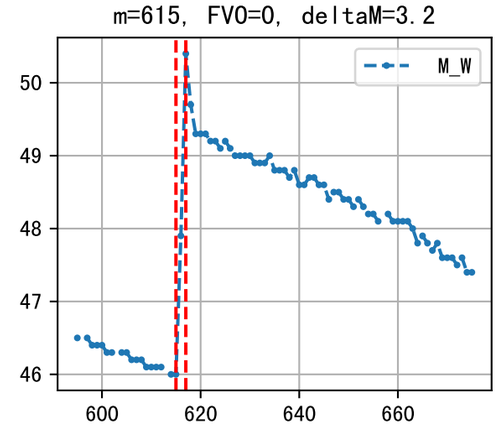
滴头平均流速偏大（0.77 vs def 0.5），请检查
上次灌溉流速比过去5天平均大 (0.91 vs 0.77)，可能管道压力异常或有管道漏水
施肥机灌溉量与预期值不符 (93.0 : 30.0)，可能水表需要校准
默认实际灌溉30.0 ml.

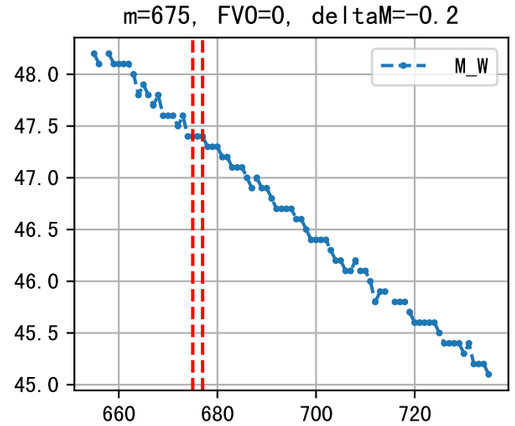
L1A4_4, Day=158.0 (2026-03-13)

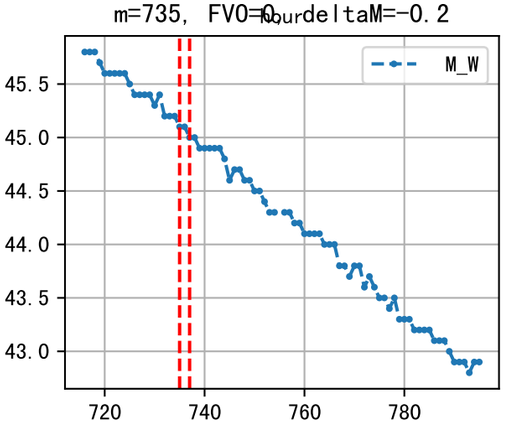


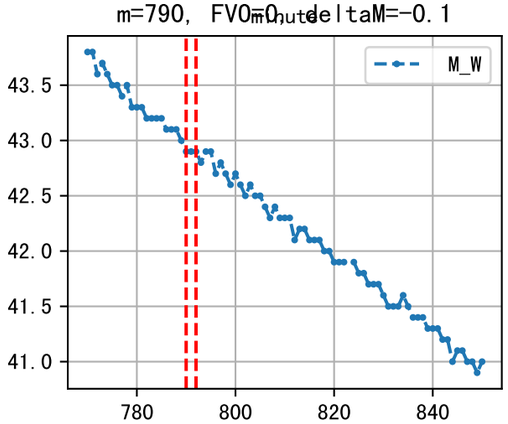

M_W

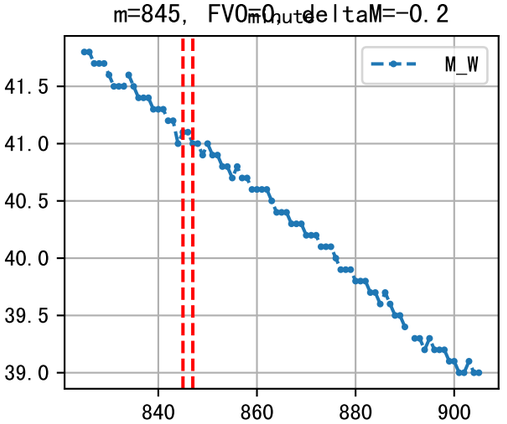

m=470, FV0=0, deltaM=7.1
M_W

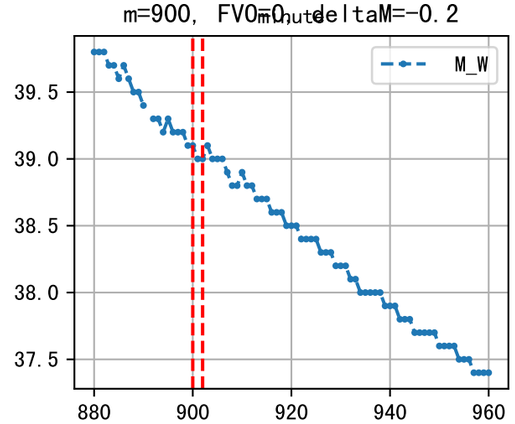

m=615, FV0=0, deltaM=3.2
M_W

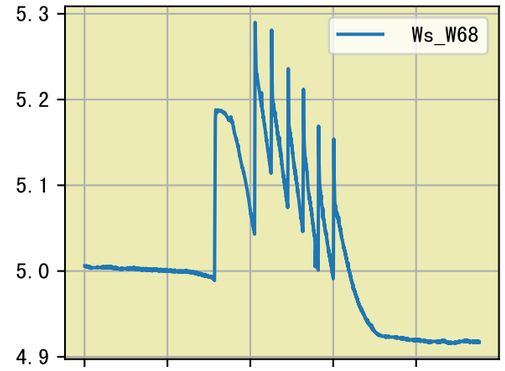

m=675, FV0=0, deltaM=-0.2
M_W

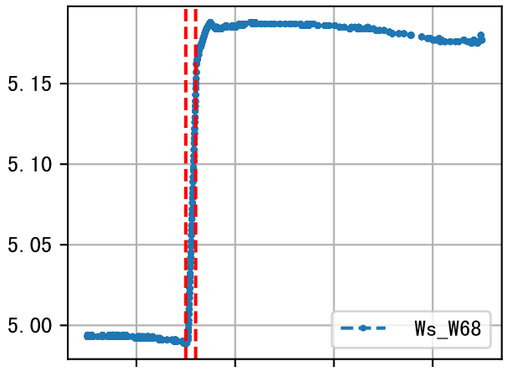

m=735, FV0=0, deltaM=-0.2
M_W
minute

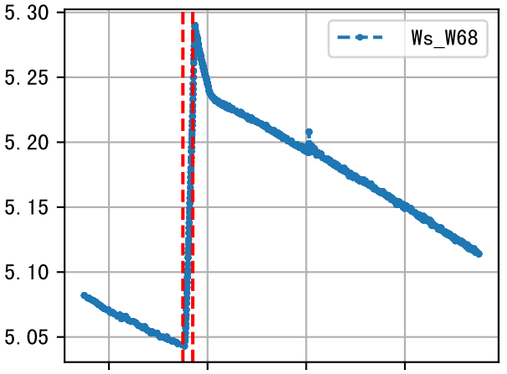

m=790, FV0=0, deltaM=-0.1
M_W

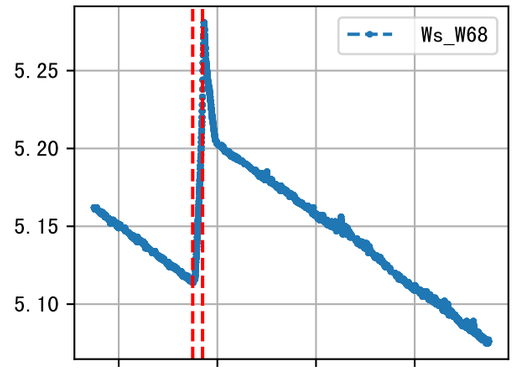

m=845, FV0=0, deltaM=-0.2
M_W

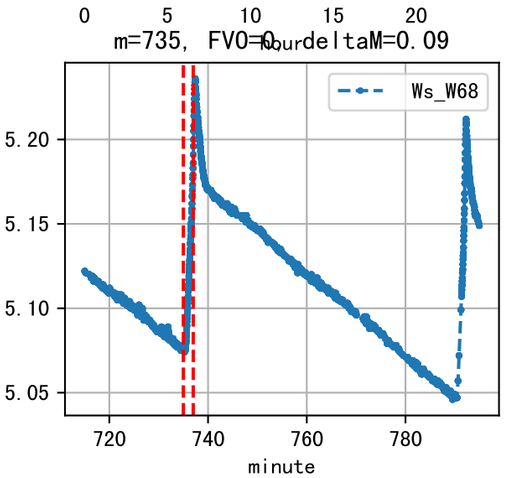

m=900, FV0=0, deltaM=-0.2
M_W

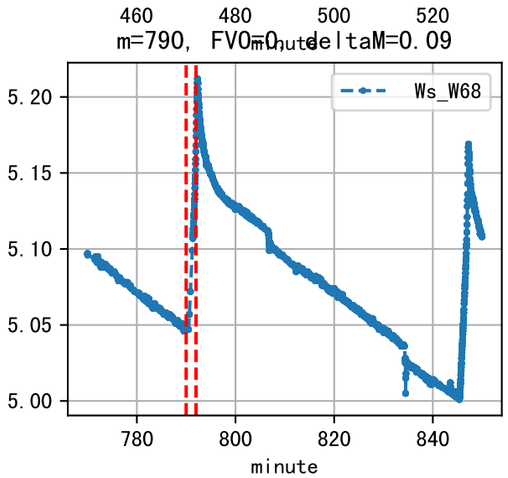

Ws_W68

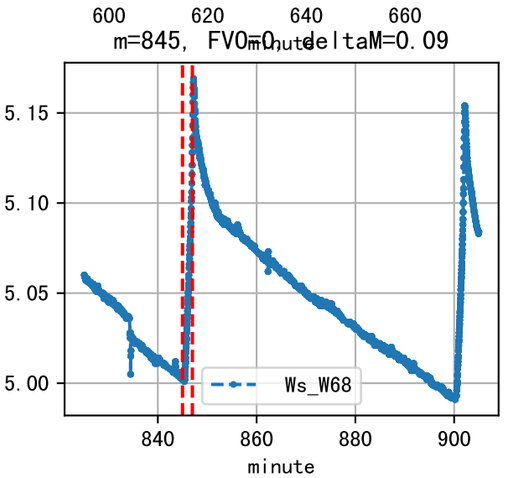

m=470, FV0=0, deltaM=0.09
Ws_W68

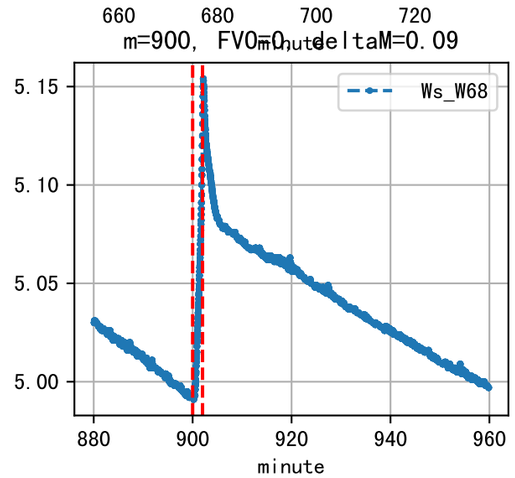

m=615, FV0=0, deltaM=0.19
Ws_W68

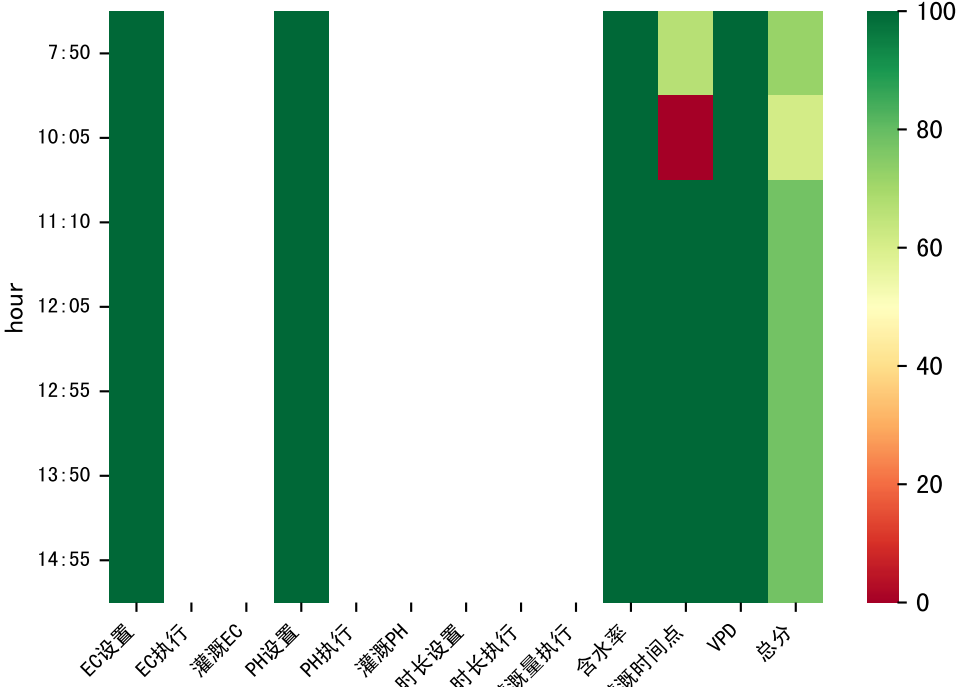

m=675, FV0=0, deltaM=0.08
Ws_W68


m=735, FV0=0, deltaM=0.09
Ws_W68
minute


m=790, FV0=0, deltaM=0.09
Ws_W68
minute


m=845, FV0=0, deltaM=0.09
Ws_W68
minute

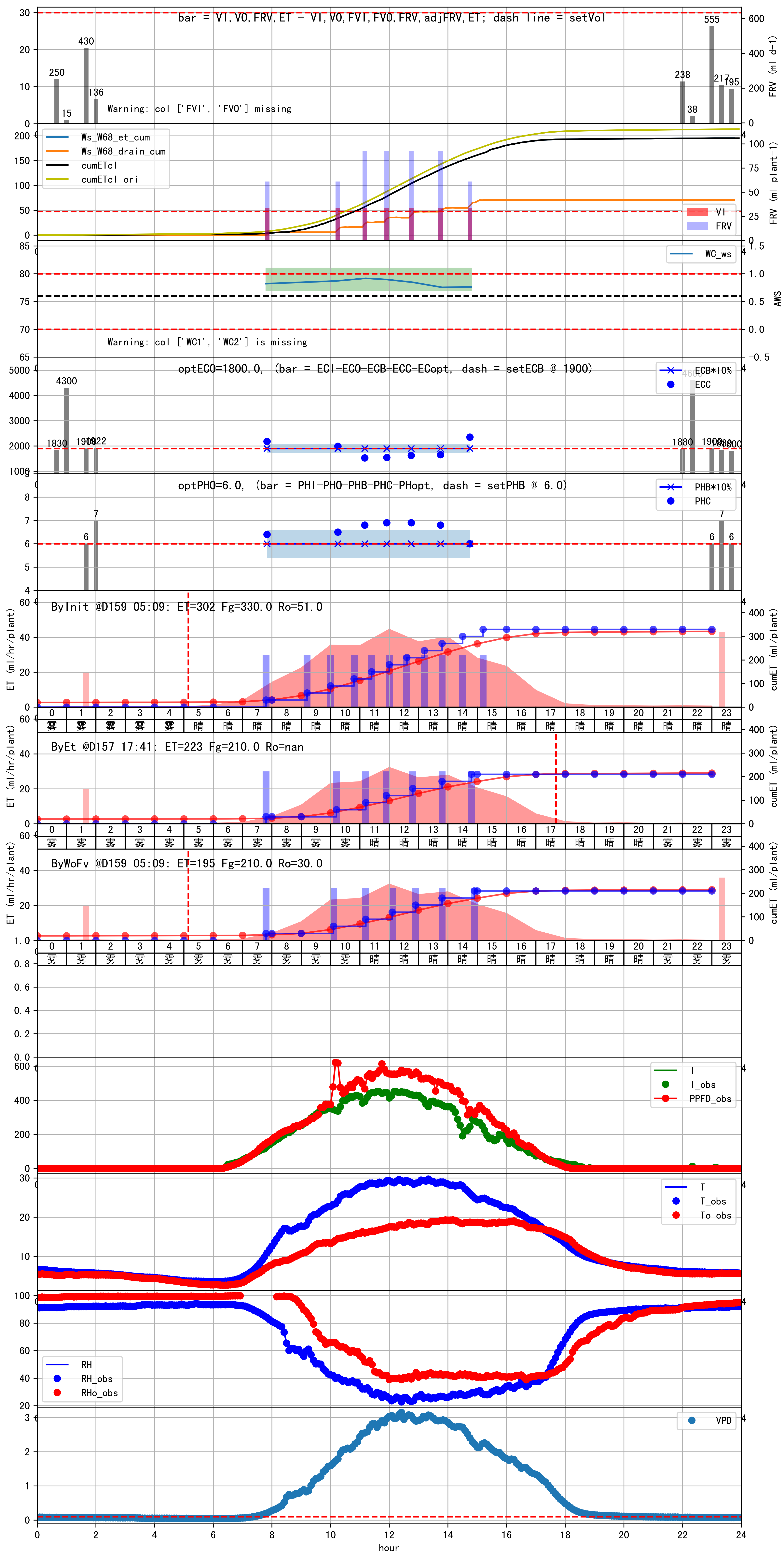

m=900, FV0=0, deltaM=0.09
Ws_W68
minute

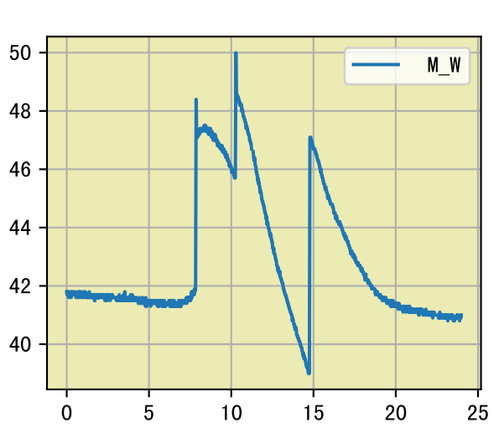

hour
7:50
10:05
11:10
12:05
12:55
13:50
14:55
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
含水率
VPD
总分
100
80
60
40
20
0

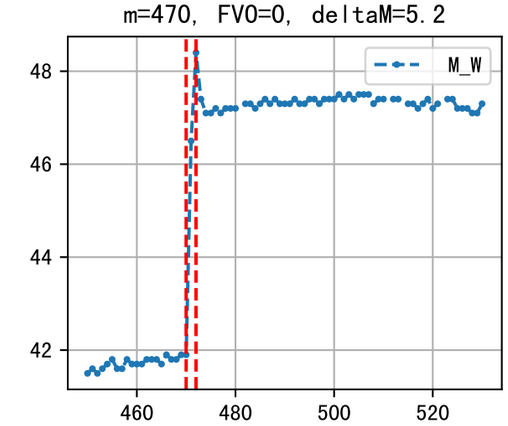
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:50	103	30.0	0.122	雾	假设@07:50 自动（未用传感器）
10:05	103	30.0	0.122	雾	假设@10:05 自动（未用传感器）
11:10	103	30.0	0.122	晴	假设@11:10 自动（未用传感器）
12:05	103	30.0	0.122	晴	假设@12:05 自动（未用传感器）
12:55	103	30.0	0.122	晴	假设@12:55 自动（未用传感器）
13:50	103	30.0	0.122	晴	假设@13:50 自动（未用传感器）
14:55	103	30.0	0.122	晴	假设@14:55 自动（未用传感器）
总计	721.0 (7次)	210.0			建议进液EC：1900， PH：6.0

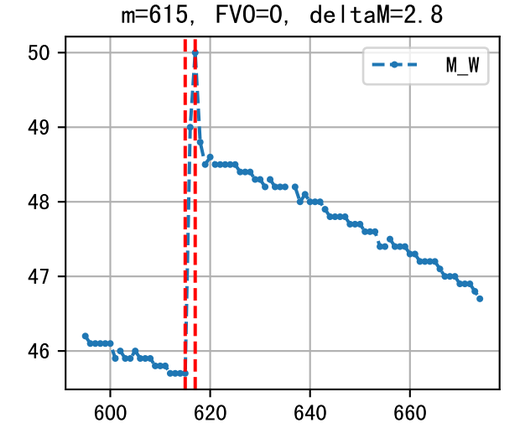
滴头平均流速偏大（0.81 vs def 0.5），请检查
上次灌溉流速比过去5天平均小 (0.6 vs 0.81)，可能管道压力异常或有管道堵塞
施肥机灌溉量与预期值不符 (61.0 : 31.0)，可能水表需要校准
默认实际灌溉31.0 ml.

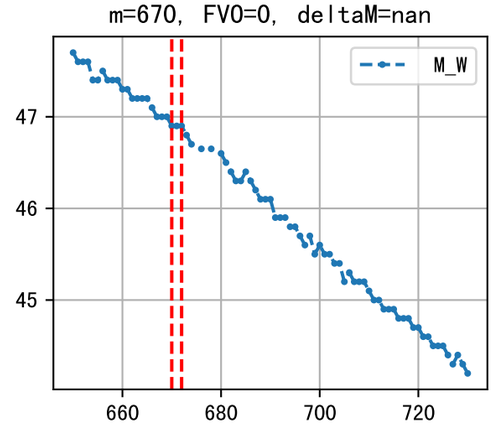
L1A4_4, Day=157.0 (2026-03-12)

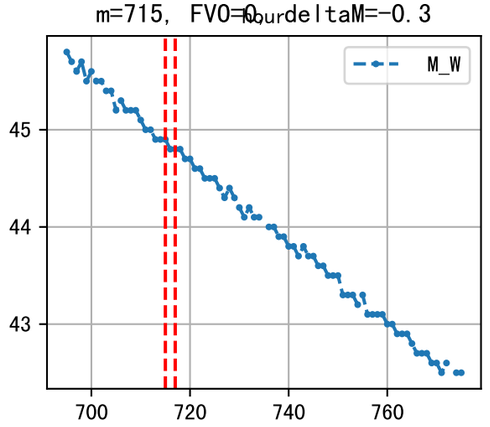


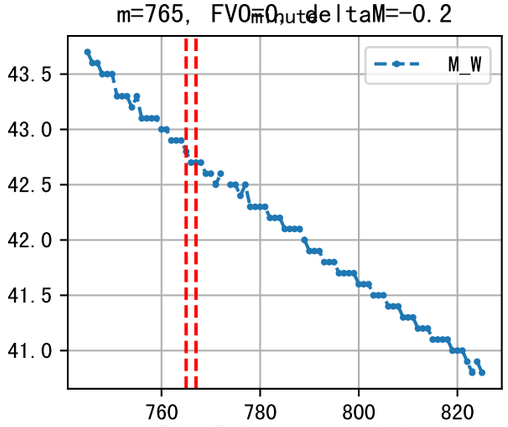

M_W

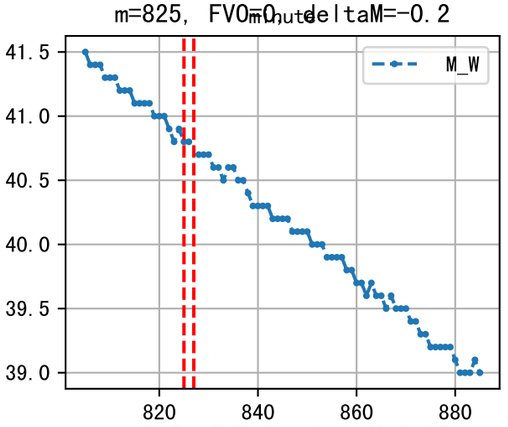

m=470, FV0=0, deltaM=5.2
M_W

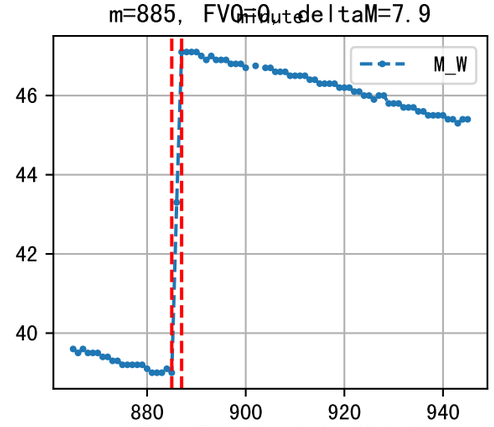

m=615, FV0=0, deltaM=2.8
M_W

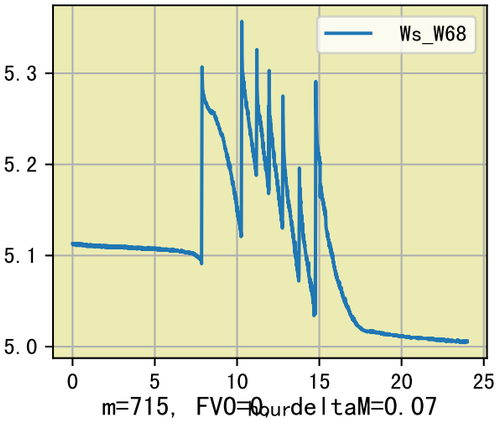

m=670, FV0=0, deltaM=nan
M_W

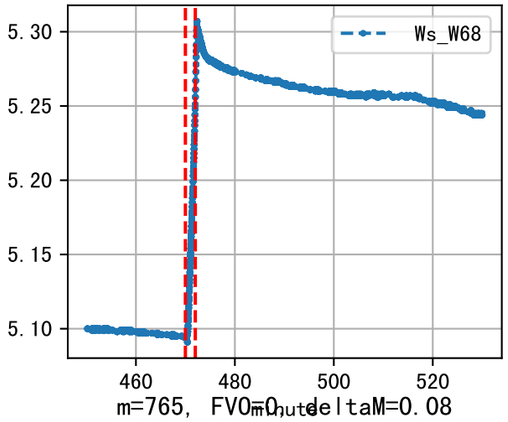

m=715, FV0=0, deltaM=-0.3
M_W
minute

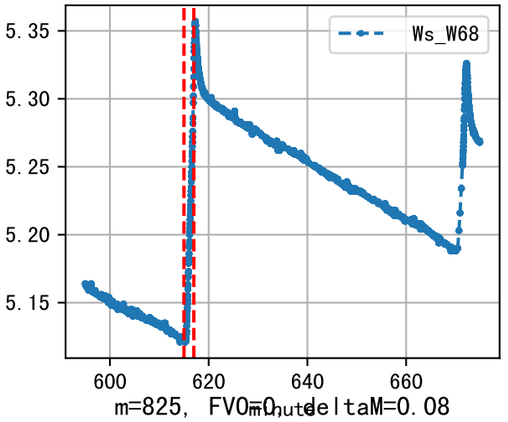

m=765, FV0=0, deltaM=-0.2
M_W

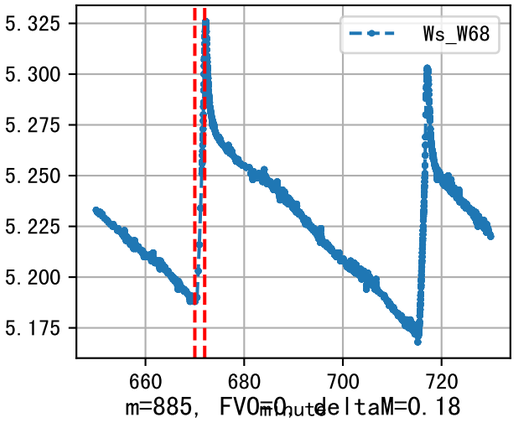

m=825, FV0=0, deltaM=-0.2
M_W

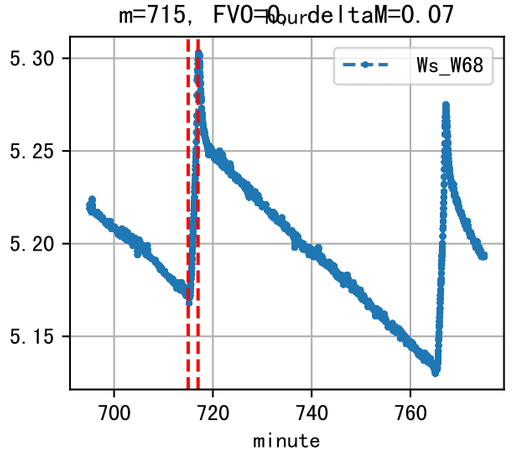

m=885, FV0=0, deltaM=7.9
M_W

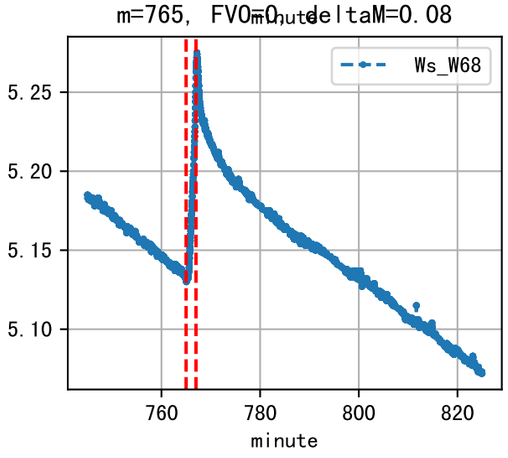

Ws_W68

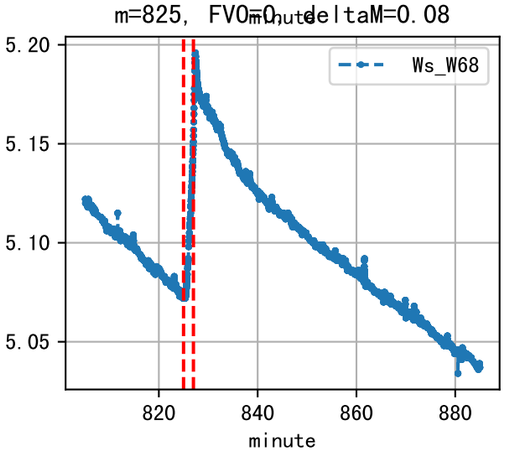

m=470, FV0=0, deltaM=0.18
Ws_W68

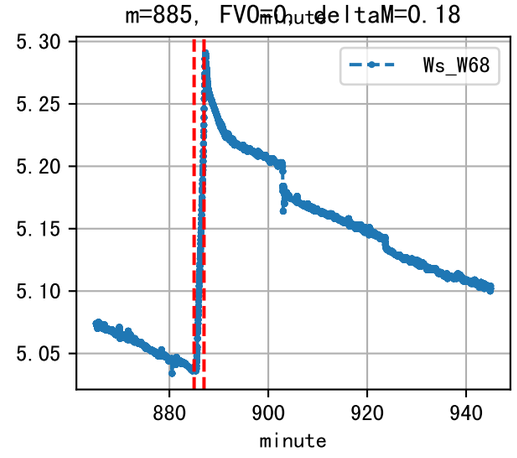

m=615, FV0=0, deltaM=0.17
Ws_W68

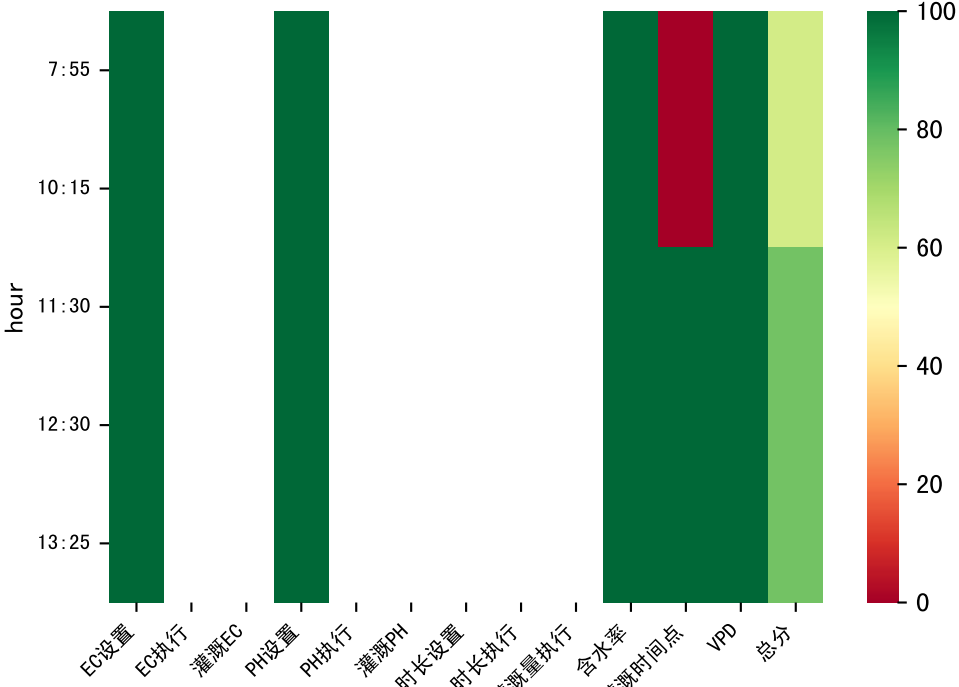

m=670, FV0=0, deltaM=0.08
Ws_W68


m=715, FV0=0, deltaM=0.07
Ws_W68
minute


m=765, FV0=0, deltaM=0.08
Ws_W68
minute


m=825, FV0=0, deltaM=0.08
Ws_W68
minute

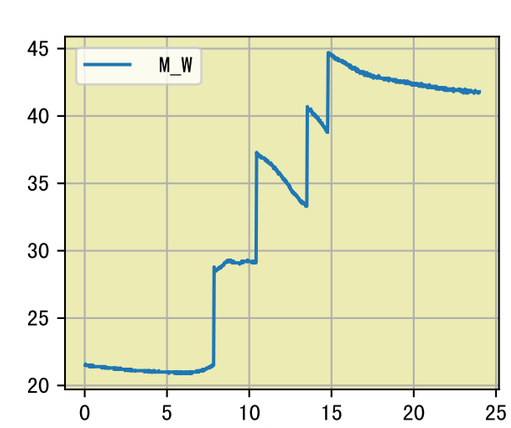

m=885, FV0=0, deltaM=0.18
Ws_W68
minute

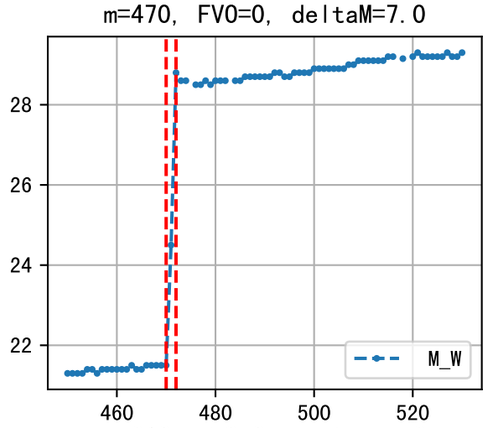

hour
7:55
10:15
11:30
12:30
13:25
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌溉量执行
含水率
灌溉时间点
VPD
总分
100
80
60
40
20
0

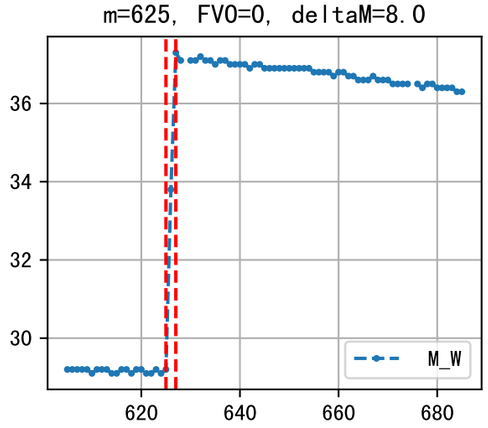
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:55	103	30.0	0.122	雾	假设@07:55 自动（未用传感器）
10:15	103	30.0	0.122	晴	假设@10:15 自动（未用传感器）
11:30	103	30.0	0.122	晴	假设@11:30 自动（未用传感器）
12:30	103	30.0	0.122	多云	假设@12:30 自动（未用传感器）
13:25	103	30.0	0.122	多云	假设@13:25 自动（未用传感器）
总计	515.0 (5次)	150.0			建议进液EC：1900， PH：6.0

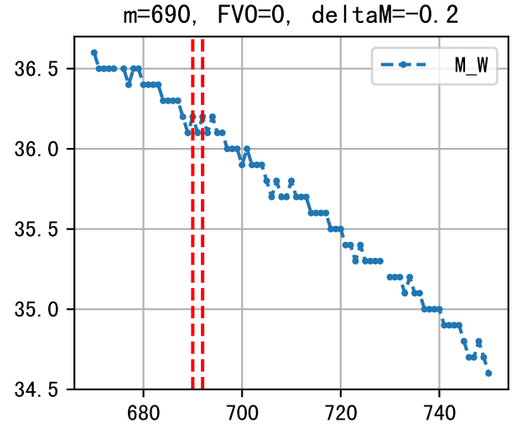
滴头平均流速偏大（0.81 vs def 0.5），请检查
上次灌溉流速比过去5天平均小 (0.6 vs 0.81)，可能管道压力异常或有管道堵塞
施肥机灌溉量与预期值不符 (61.0 : 31.0)，可能水表需要校准
默认实际灌溉31.0 ml.

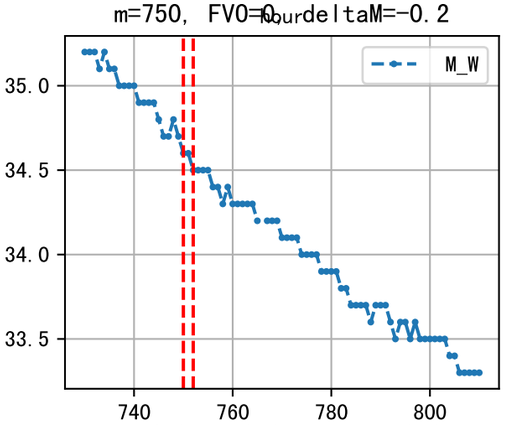
L1A4_4, Day=156.0 (2026-03-11)

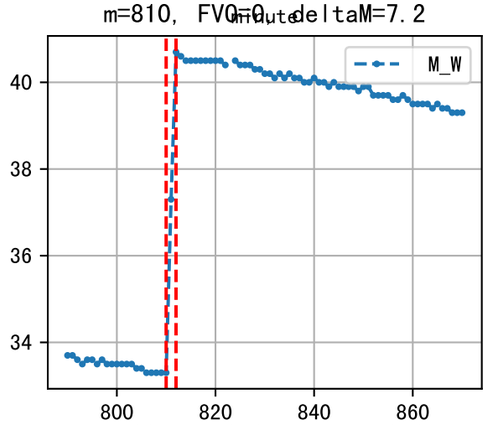

M_W

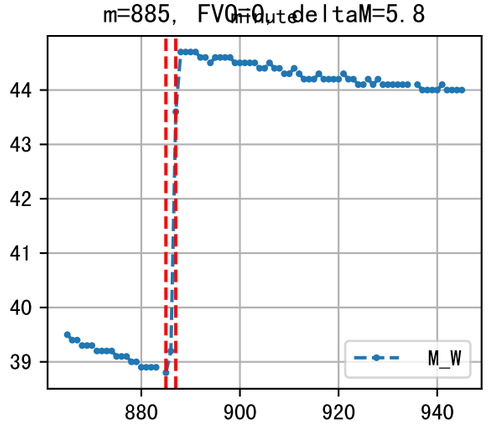

m=470, FV0=0, deltaM=7.0
M_W

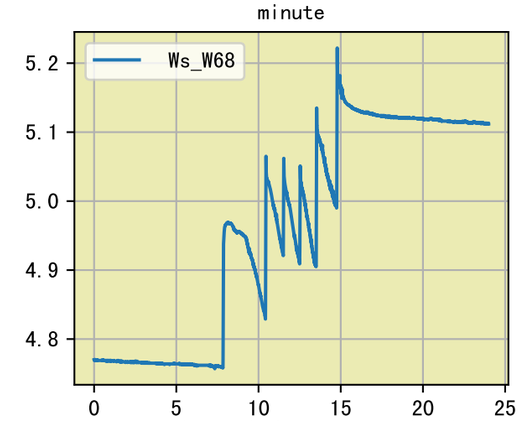

m=625, FV0=0, deltaM=8.0
M_W

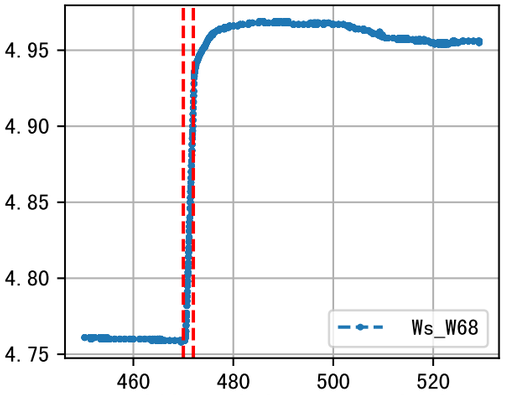

m=690, FV0=0, deltaM=-0.2
M_W
minute

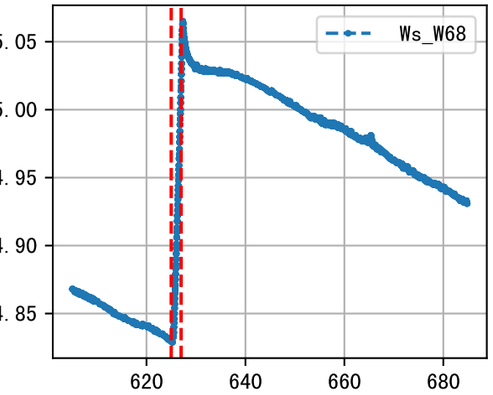

m=750, FV0=0, deltaM=-0.2
M_W
minute

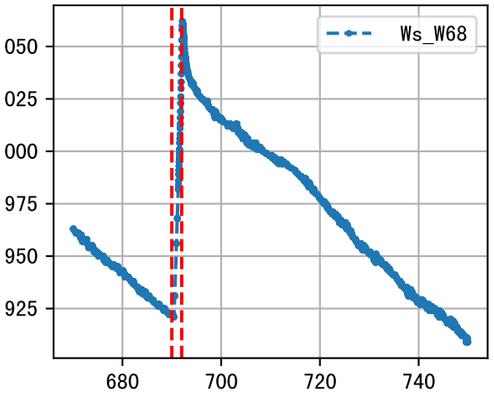

m=810, FV0=0, deltaM=7.2
M_W
minute

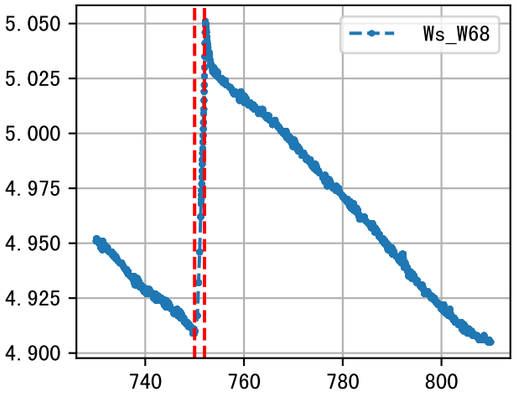

m=885, FV0=0, deltaM=5.8
M_W
minute

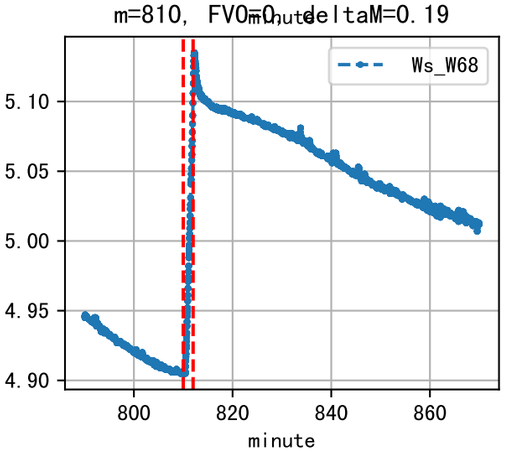

Ws_W68

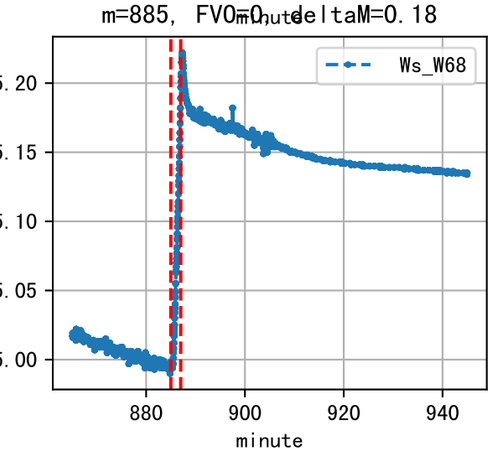

m=470, FV0=0, deltaM=0.2
Ws_W68
minute

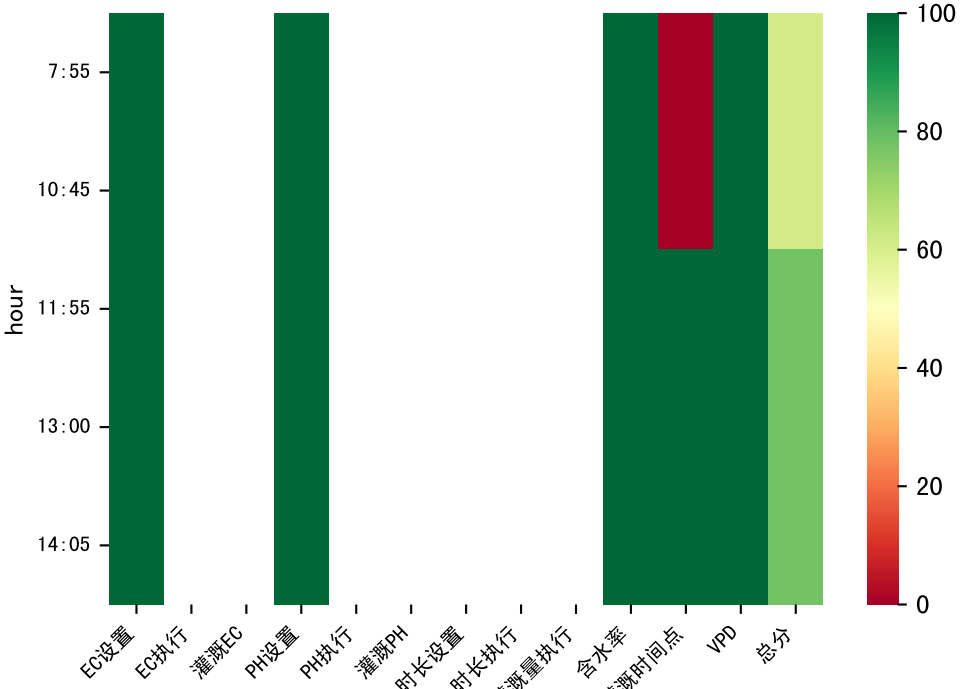

m=625, FV0=0, deltaM=0.2
Ws_W68
minute


m=690, FV0=0, deltaM=0.1
Ws_W68
minute


m=750, FV0=0, deltaM=0.11
Ws_W68
minute


m=810, FV0=0, deltaM=0.19
Ws_W68
minute

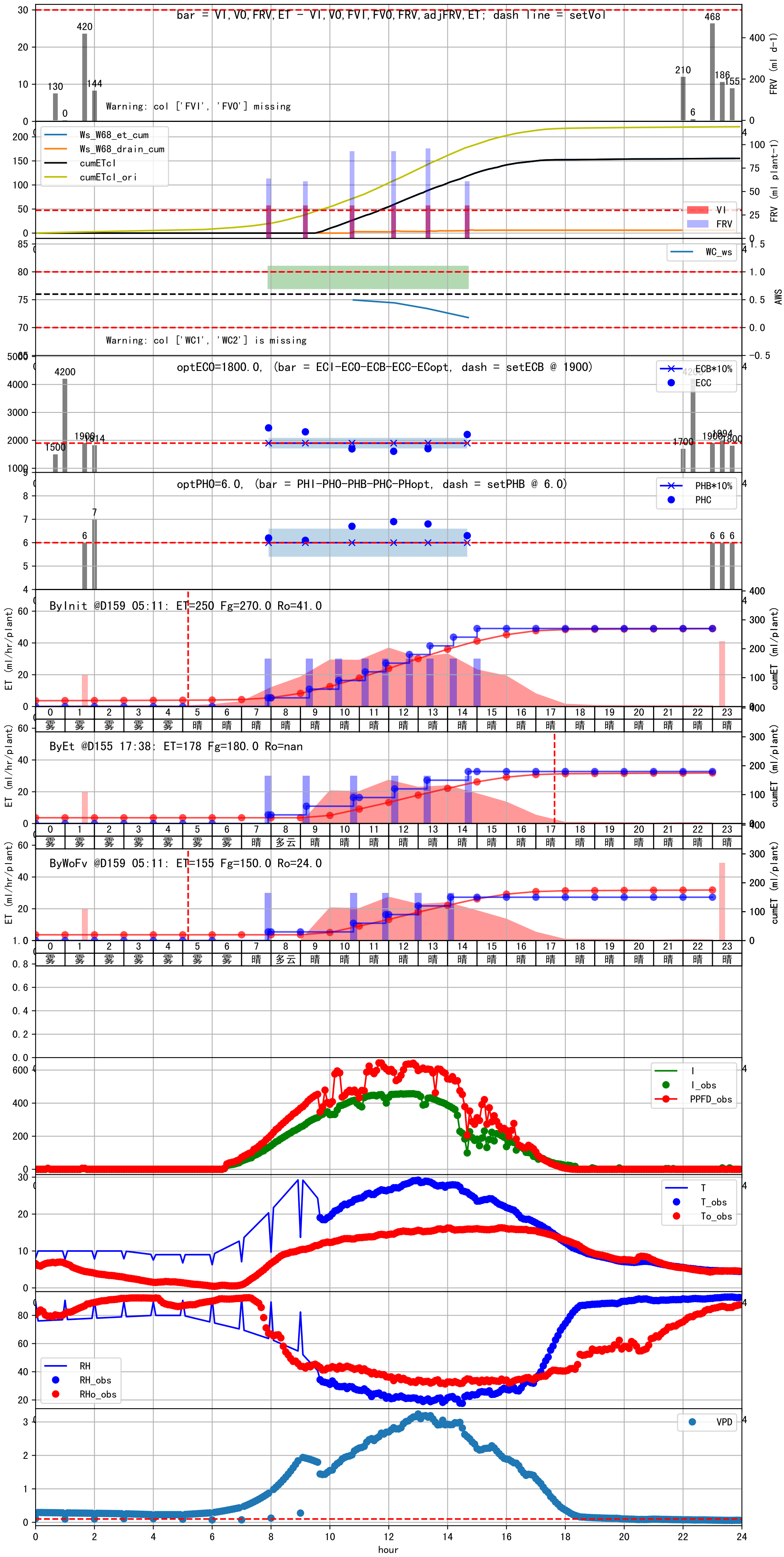

m=885, FV0=0, deltaM=0.18
Ws_W68
minute

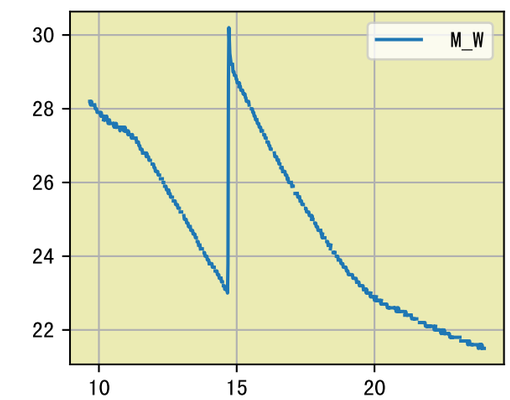

hour
7:55
10:45
11:55
13:00
14:05
EC设置
EC执行
灌溉EC
PH设置
PH执行
灌溉PH
时长设置
时长执行
灌量执行
含水率
灌时间点
VPD
总分
100
80
60
40
20
0

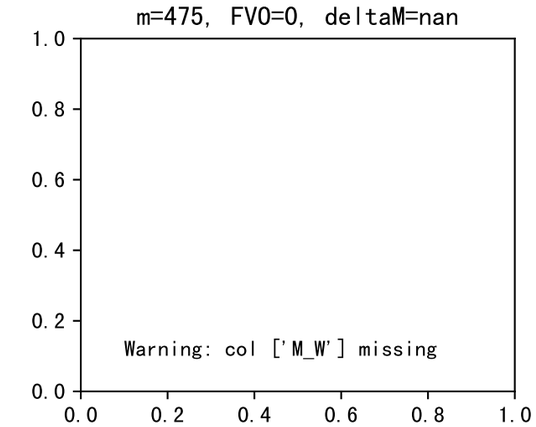
时间	灌溉时长(秒)	灌溉量(毫升/株)	灌溉总量(方/次)	天气	注释
07:55	103	30.0	0.122	晴	假设@07:55 自动（未用传感器）
10:45	103	30.0	0.122	晴	假设@10:45 自动（未用传感器）
11:55	103	30.0	0.122	晴	假设@11:55 自动（未用传感器）
13:00	103	30.0	0.122	晴	假设@13:00 自动（未用传感器）
14:05	103	30.0	0.122	晴	假设@14:05 自动（未用传感器）
总计	515.0 (5次)	150.0			建议进液EC：1900， PH：6.0

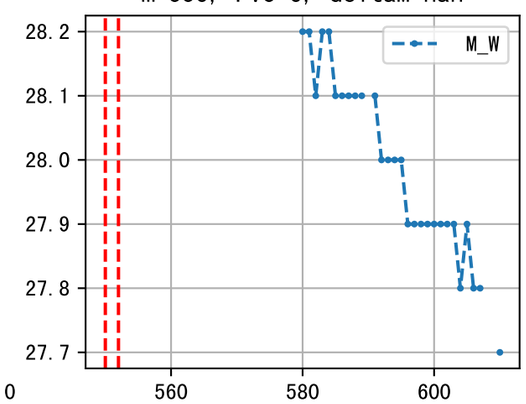
滴头平均流速偏大（0.81 vs def 0.5），请检查
上次灌溉流速比过去5天平均小 (0.6 vs 0.81)，可能管道压力异常或有管道堵塞
施肥机灌溉量与预期值不符 (61.0 : 31.0)，可能水表需要校准
默认实际灌溉31.0 ml.

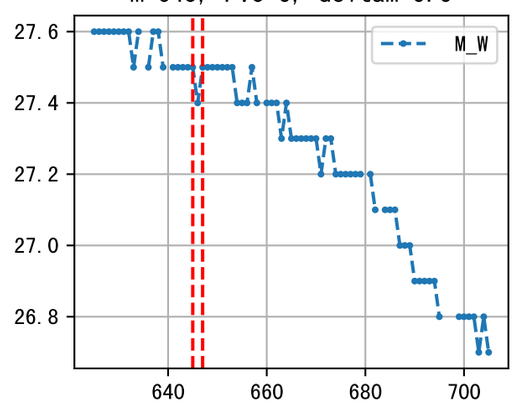
L1A4_4, Day=155.0 (2026-03-10)

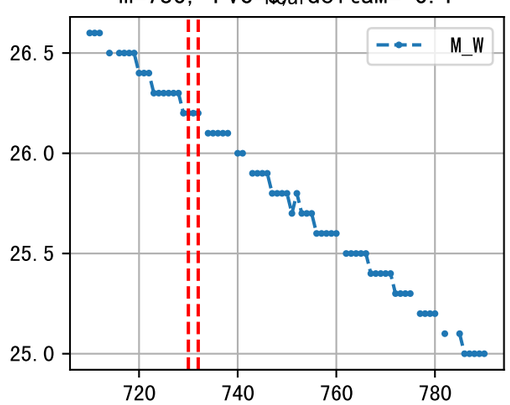


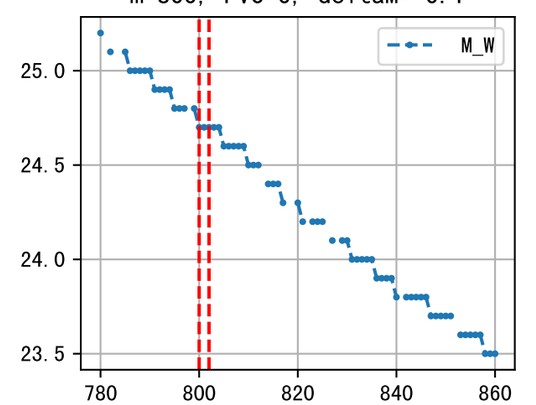

M_W


m=475, FV0=0, deltaM=nan
Warning: col ['M_W'] missing


m=550, FV0=0, deltaM=nan
M_W


m=645, FV0=0, deltaM=0.0
M_W
minute


m=730, FV0=0, deltaM=-0.1
M_W
minute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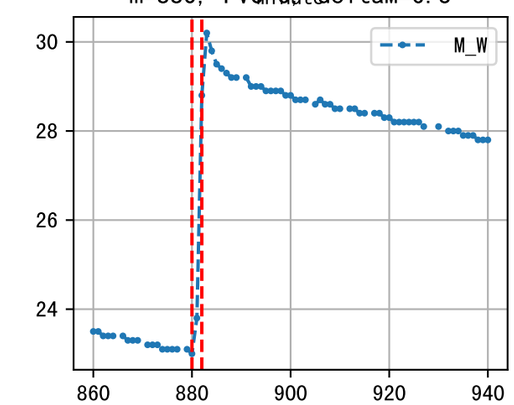
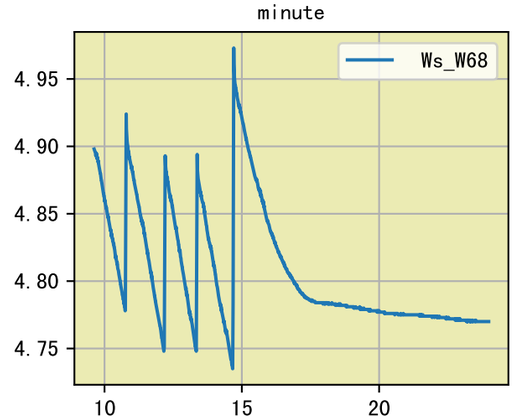
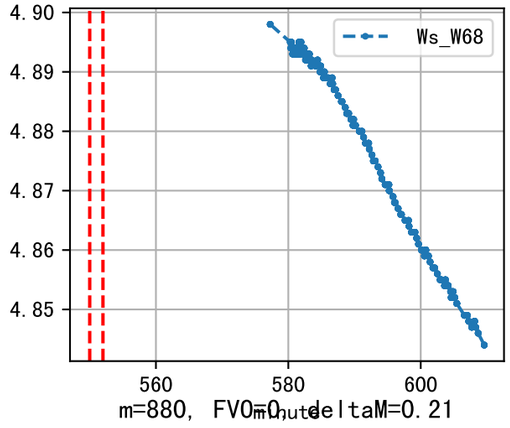
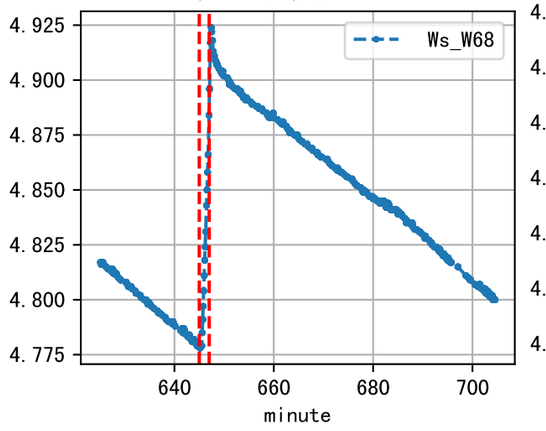
M_W
minute


m=880, FV0=0, deltaM=6.3
M_W
minute


Ws_W68
minute


m=550, FV0=0, deltaM=nan
Ws_W68
minute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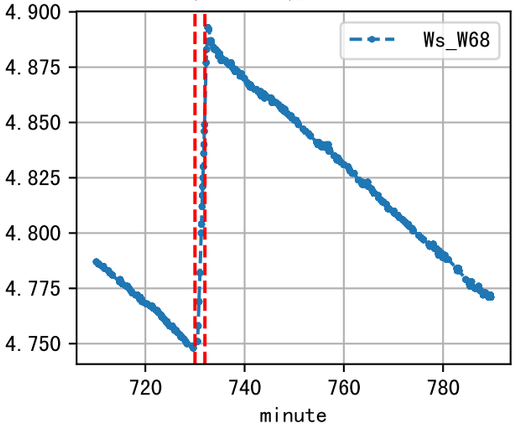
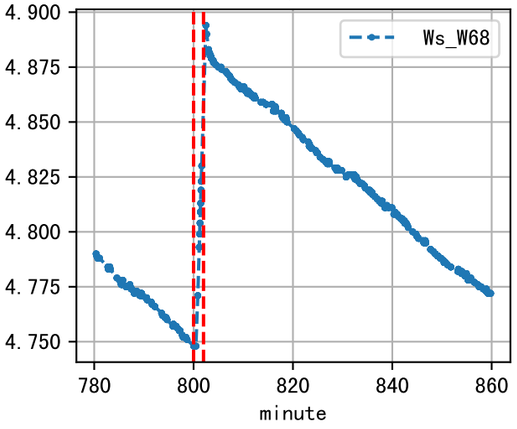
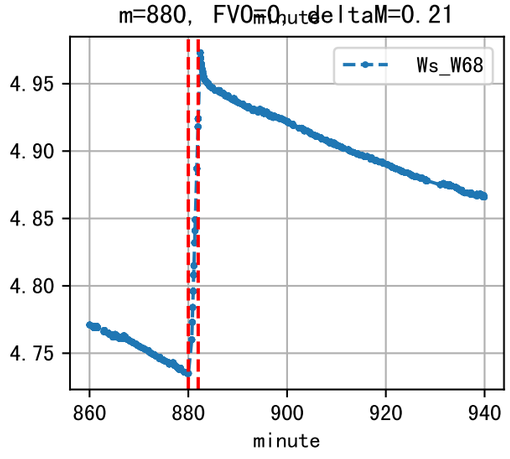
Ws_W68
minute


m=730, FV0=0, deltaM=0.12
Ws_W68
minute


m=800, FV0=0, deltaM=0.12
Ws_W68
minute


m=880, FV0=0, deltaM=0.21
Ws_W68
minute