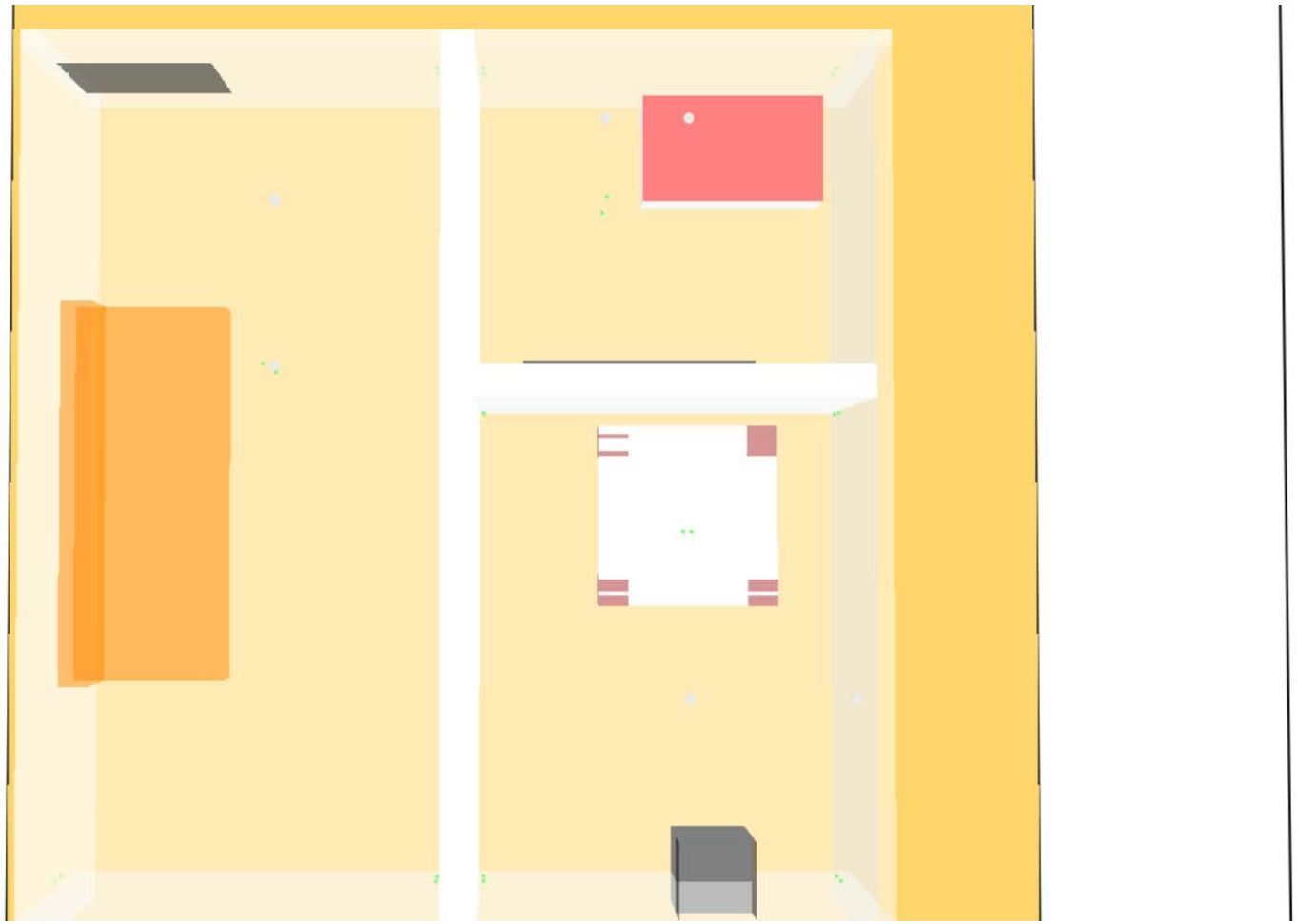
專題報告

黃文薏 盧坤耀
指導教授:張慧蓓 老師
職安2A 108B11632
職安2A 108B11696

房間的規格

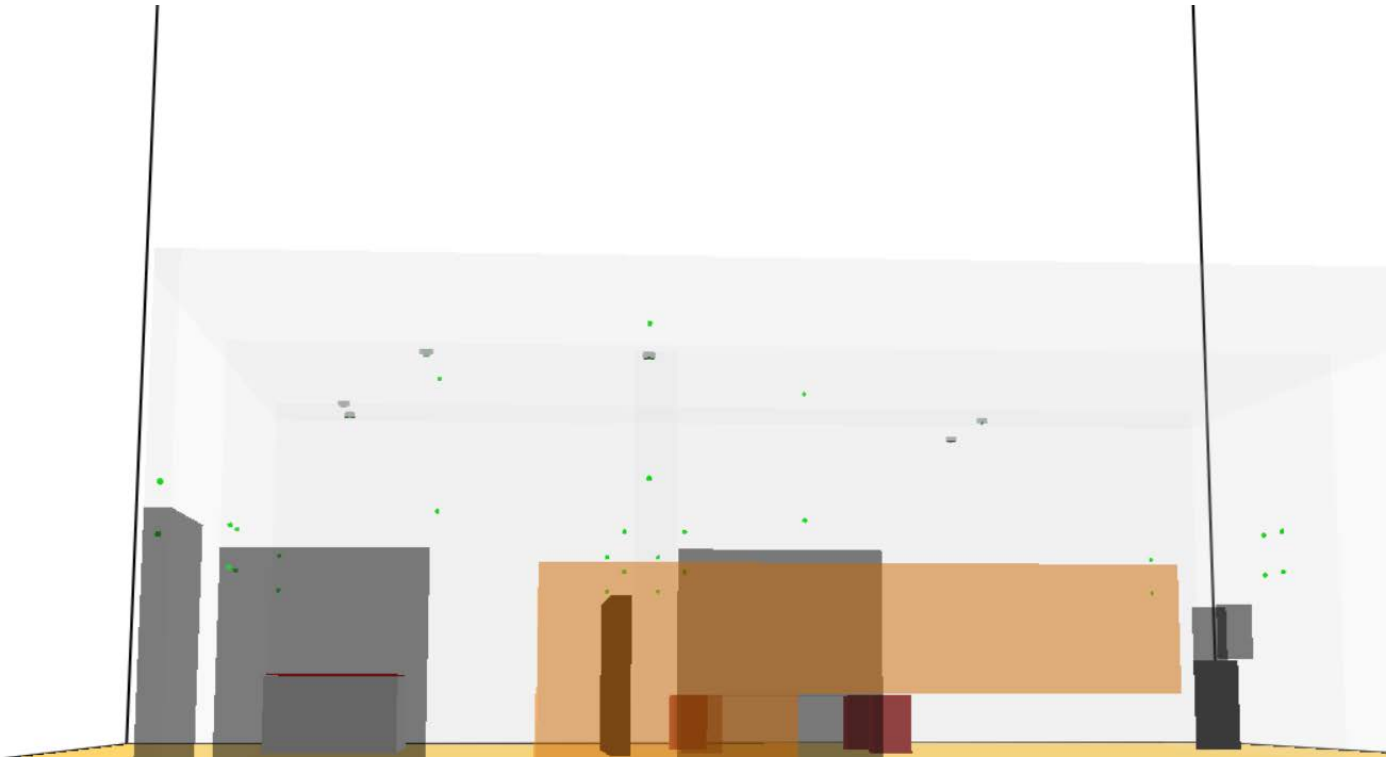
- MESH=0,14,0,14,0,10 M
- 房間=寬7M長7M高5M
- 20cm一格

房間擺設



測點

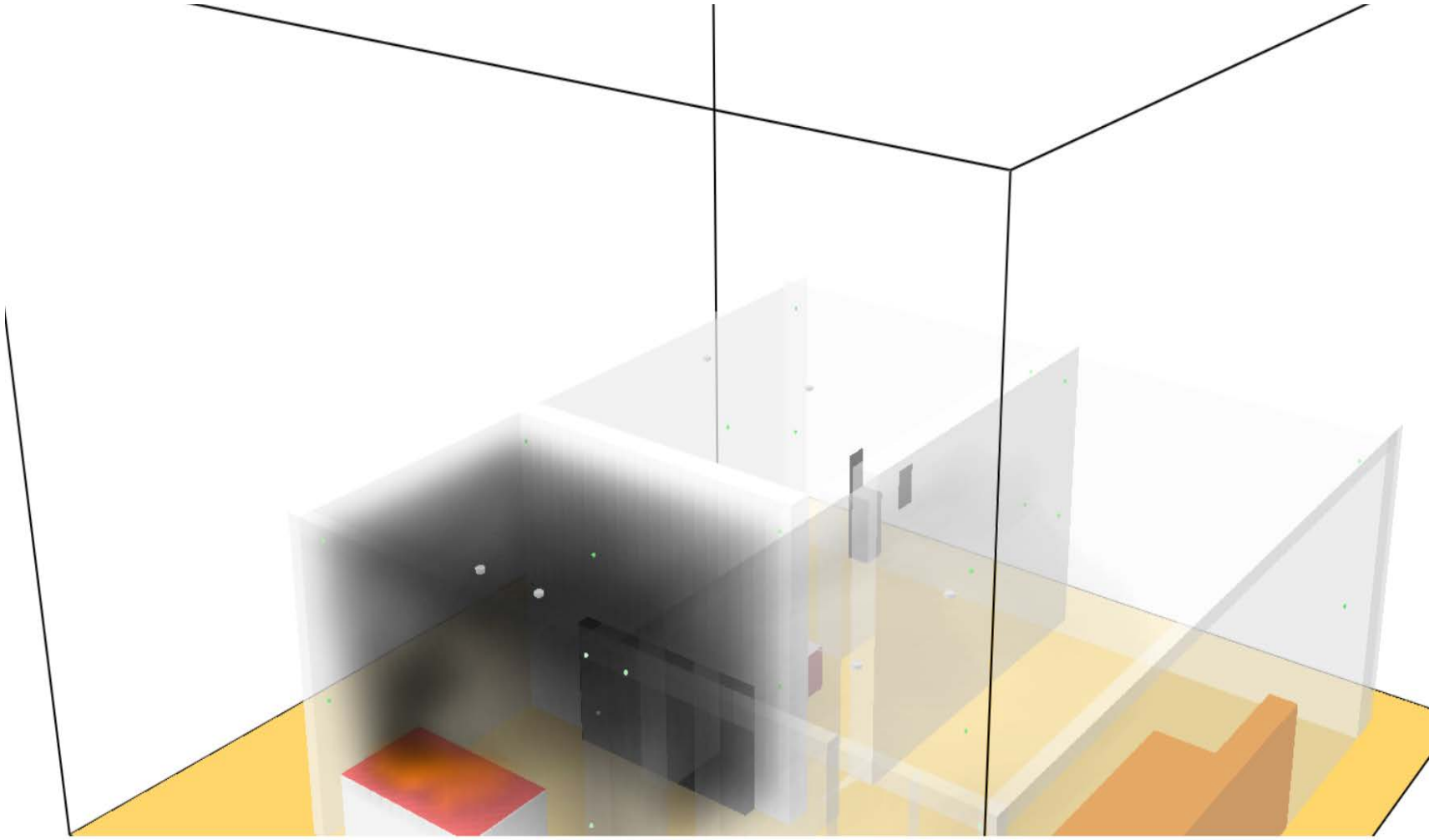
- 測點在房間天花板下0.1M
- 測點在房間四個角落
- 中央離地1.8m
- 每個房間都有



火源 床上

C3H8甲浣
PROPANE

HRR=3.5kw/m2
TAU_Q=-150.0



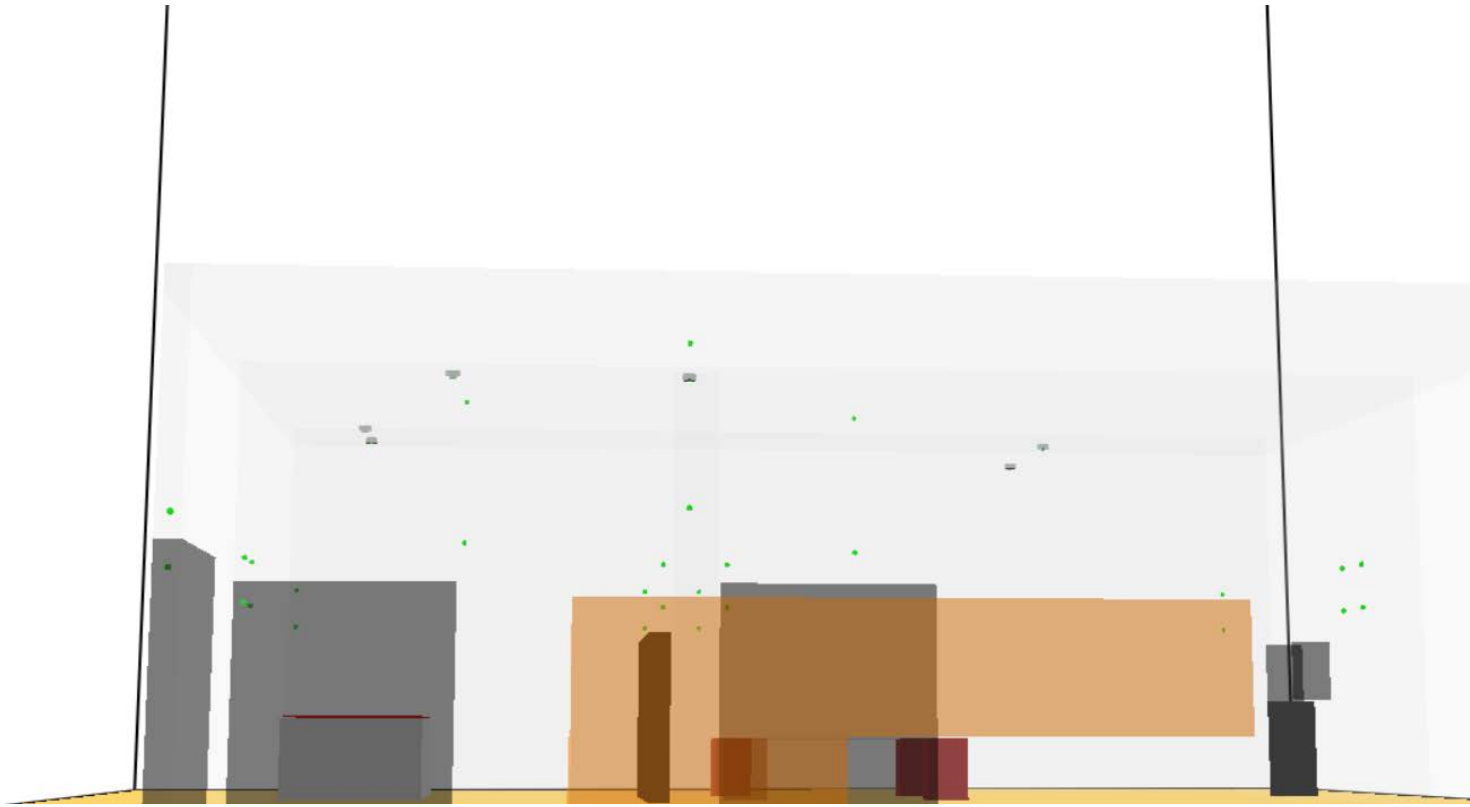
偵溫偵煙

離子形偵測器Cleary Ionization I2

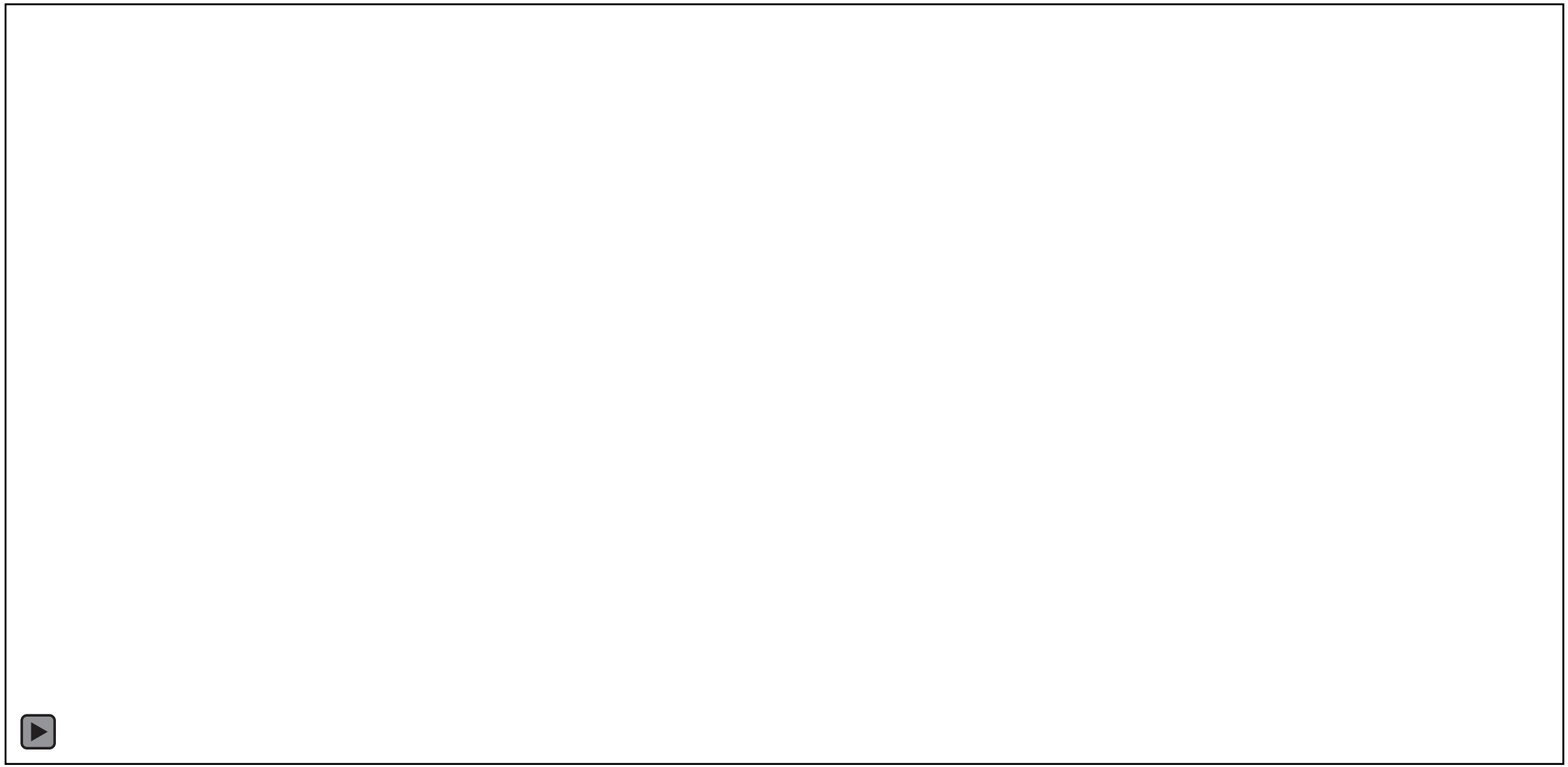
ALPHA_E=1.8,
BETA_E=-1.1,
ALPHA_C=1.0,
BETA_C=-0.8,
位於高3.6m

LENGTH=1.8,
ACTIVATION_OBSCURATION=3.24

RTI=132,
ACTIVATION_**TEMPERATURE=79**



切面

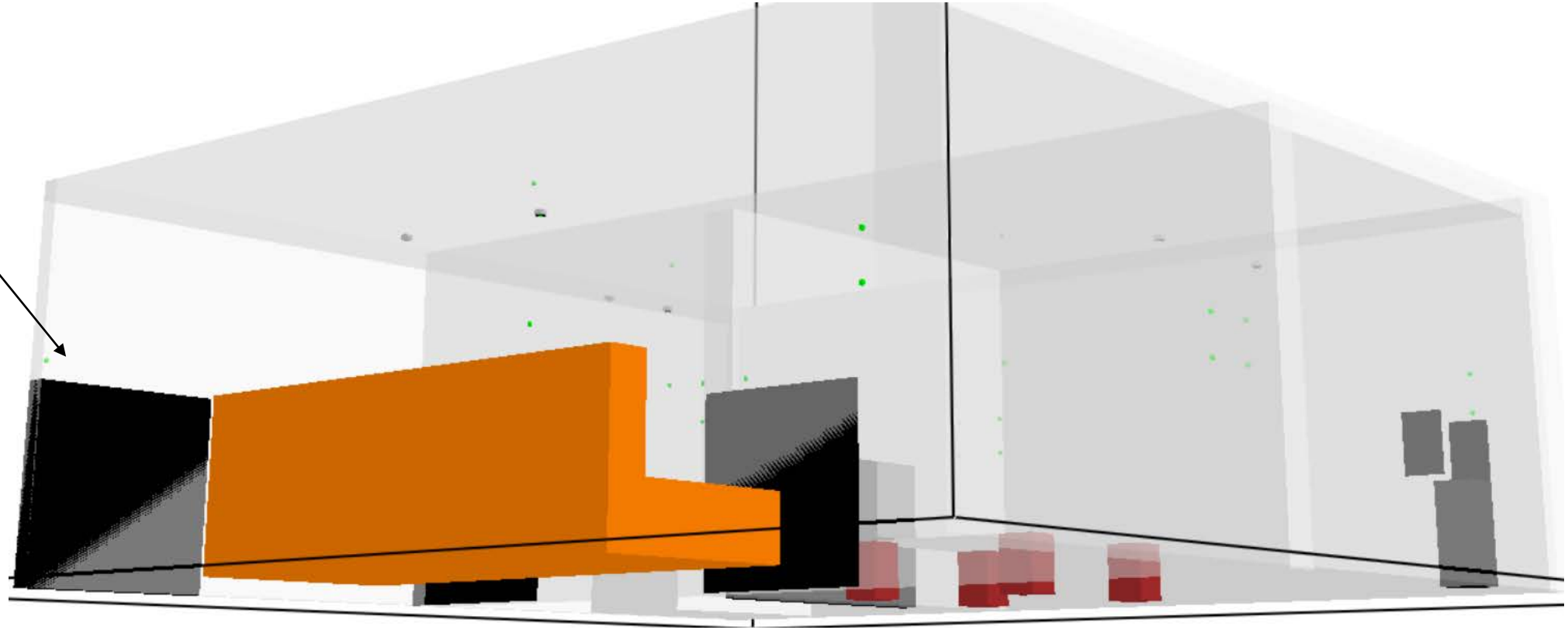


客廳

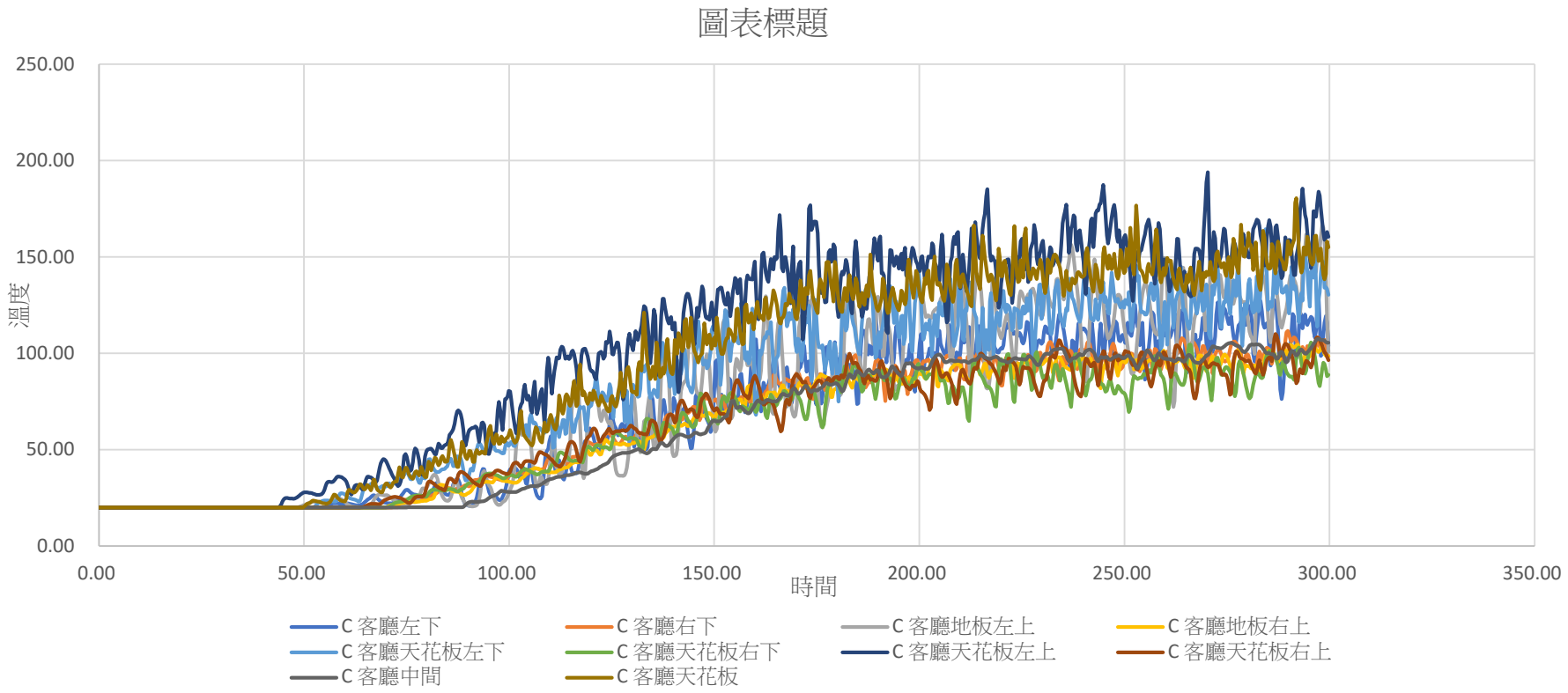
客廳大門:長2公尺

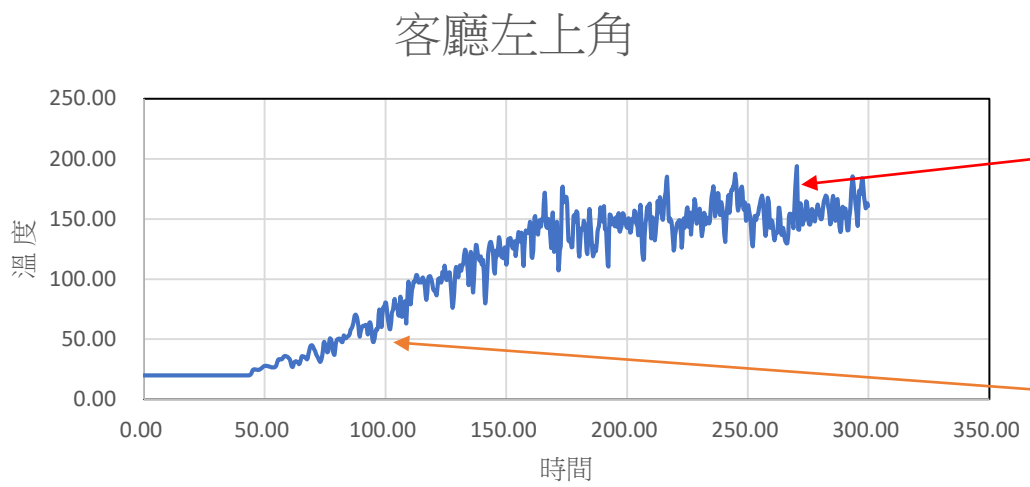
寬0.1公尺

高2公尺



沙發整體:長0.3公尺
寬2公尺
高1公尺

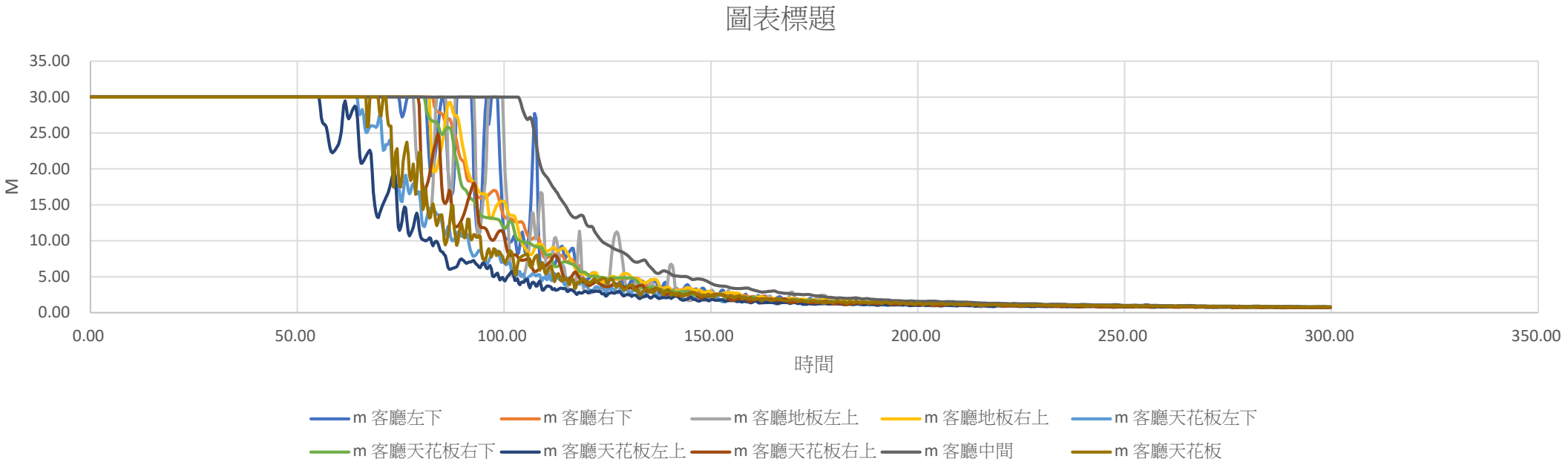


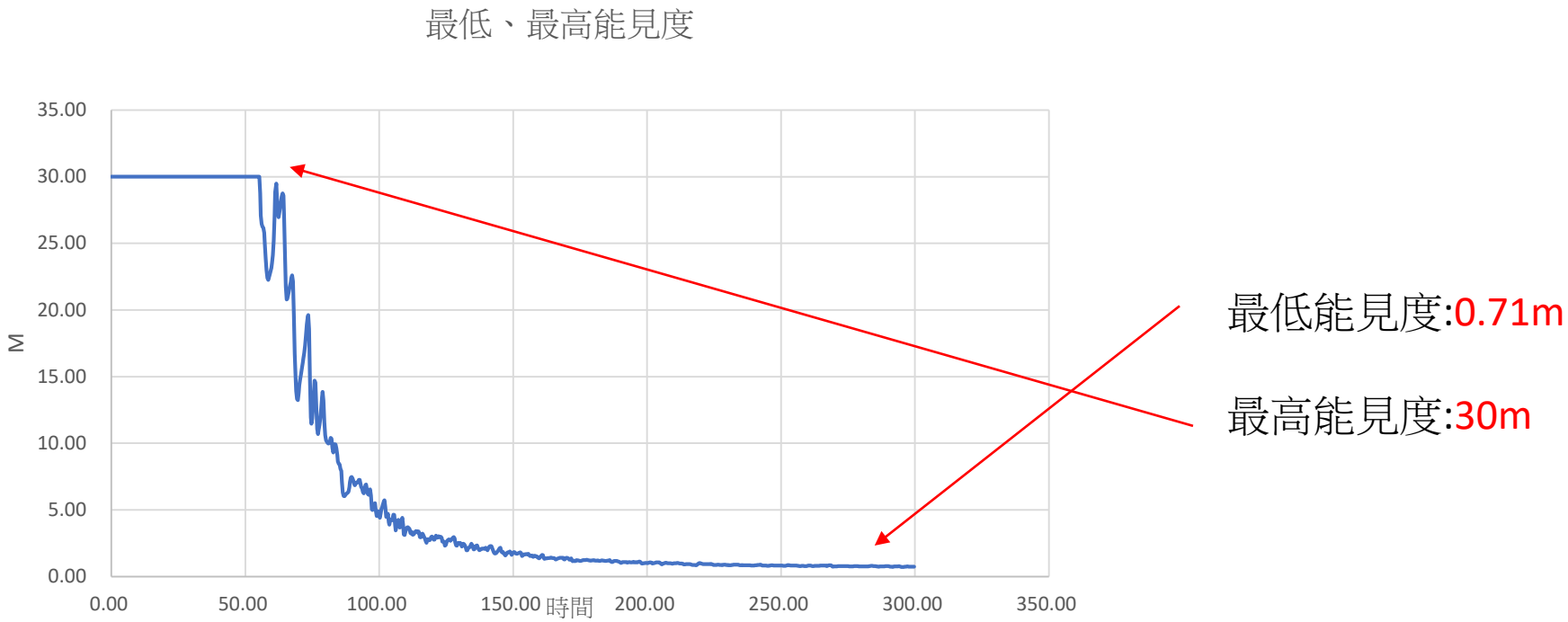


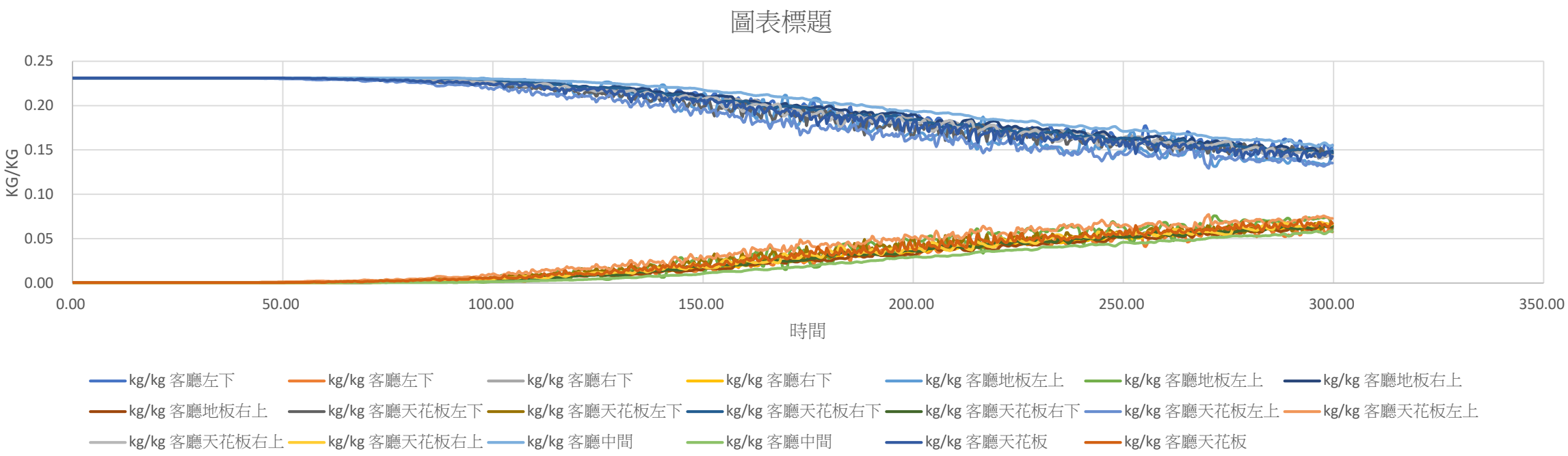
客廳左上角

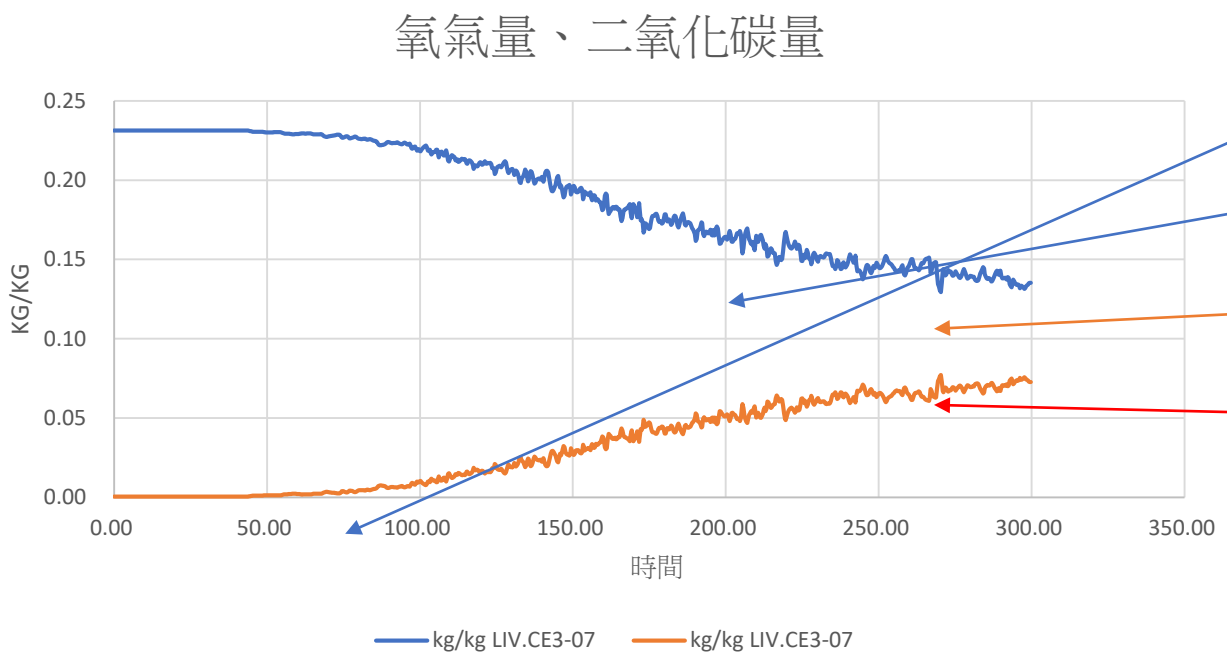
- 0s~300s:183°c

溫度66℃時灼傷


圖表標題
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
M
0.00
50.00
100.00
150.00
200.00
250.00
300.00
350.00
時間
m 客廳左下
m 客廳右下
m 客廳地板左上
m 客廳地板右上
m 客廳天花板左下
m 客廳天花板右下
m 客廳天花板左上
m 客廳天花板右上
m 客廳中間
m 客廳天花板


最低、最高能見度
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
M
0.00
50.00
100.00
150.00
時間
200.00
250.00
300.00
350.00
最低能見度:0.71m
最高能見度:30m





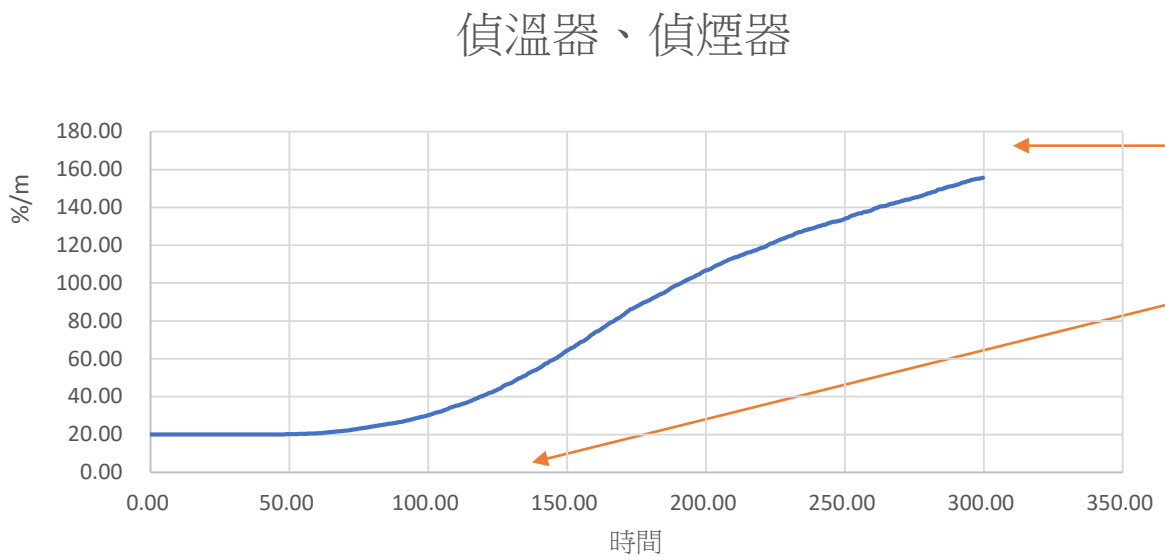
客廳天花板左上

二氧化碳在0.02kg/kg會呼吸困難

氧氣0.14kg/kg濃度以下會缺氧

氧氣量:0.13Kg/kg

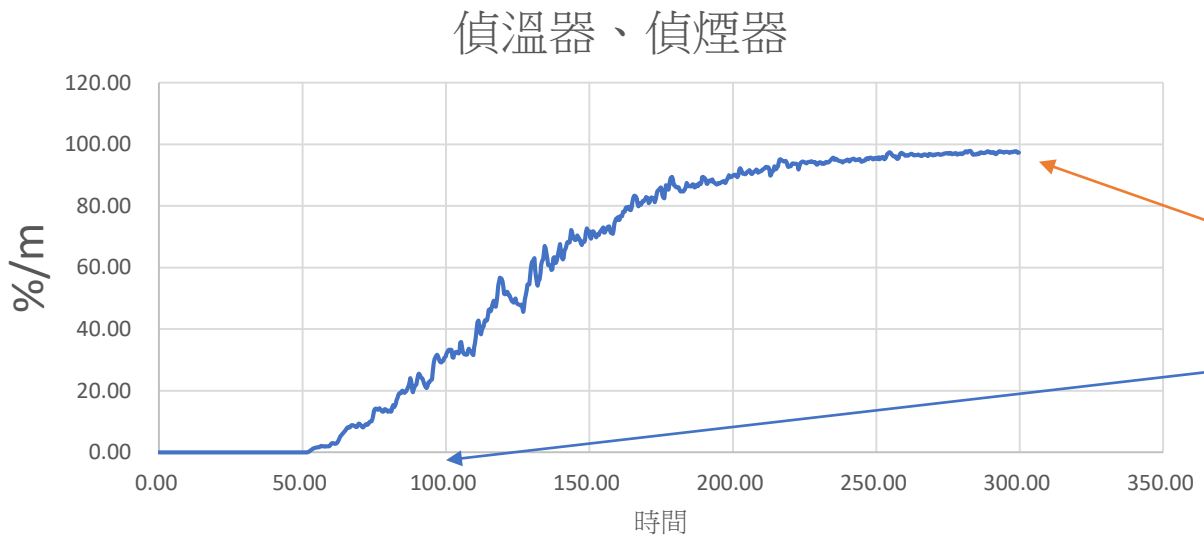
最高二氧化碳量:0.075kg/kg



偵溫器

偵測最高溫度達155˚c

在162s時作動

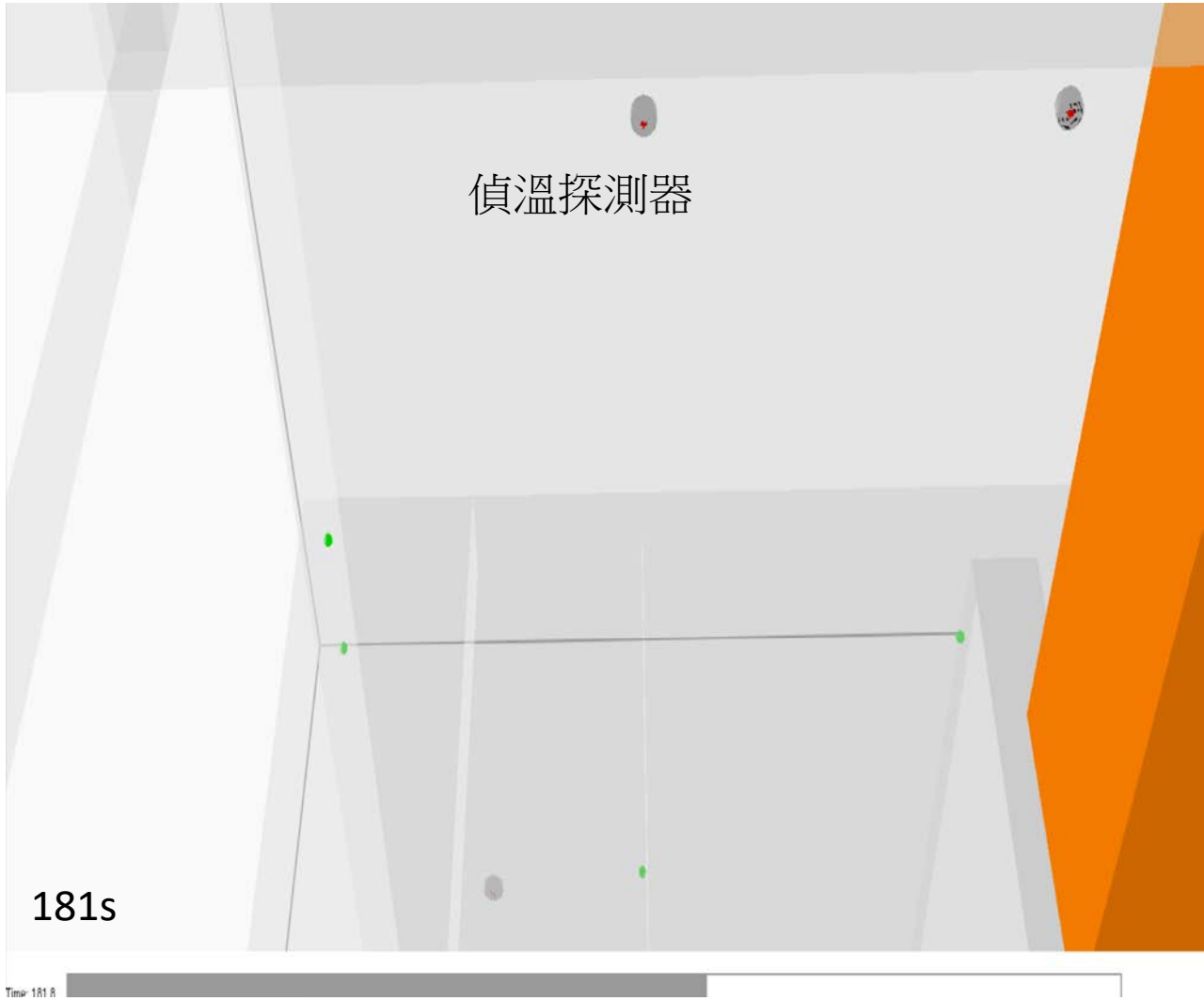


偵煙器

偵測最高97%/m

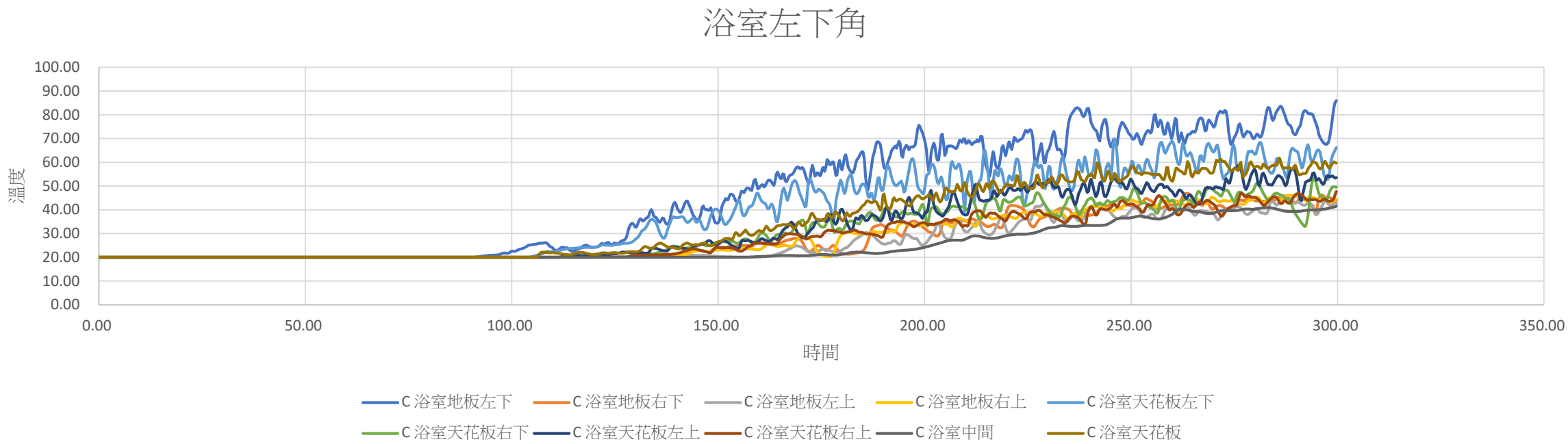
在62s時作動

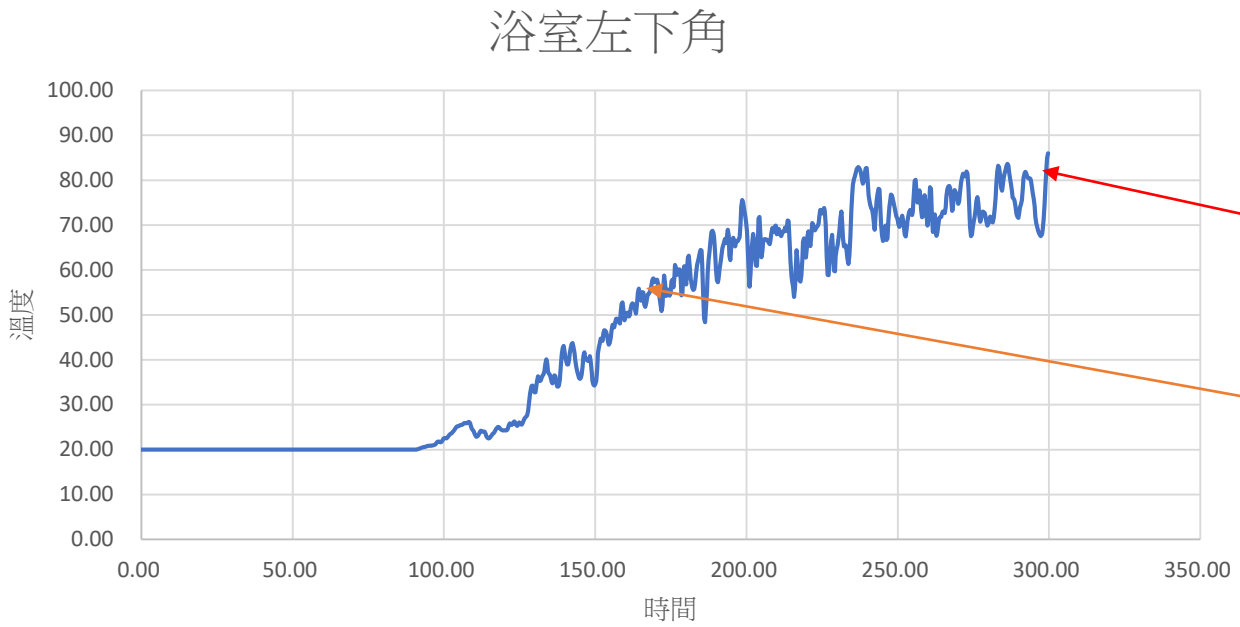
客廳偵煙探測器
82.5s
Time: 82.5


偵溫探測器
181s

浴室

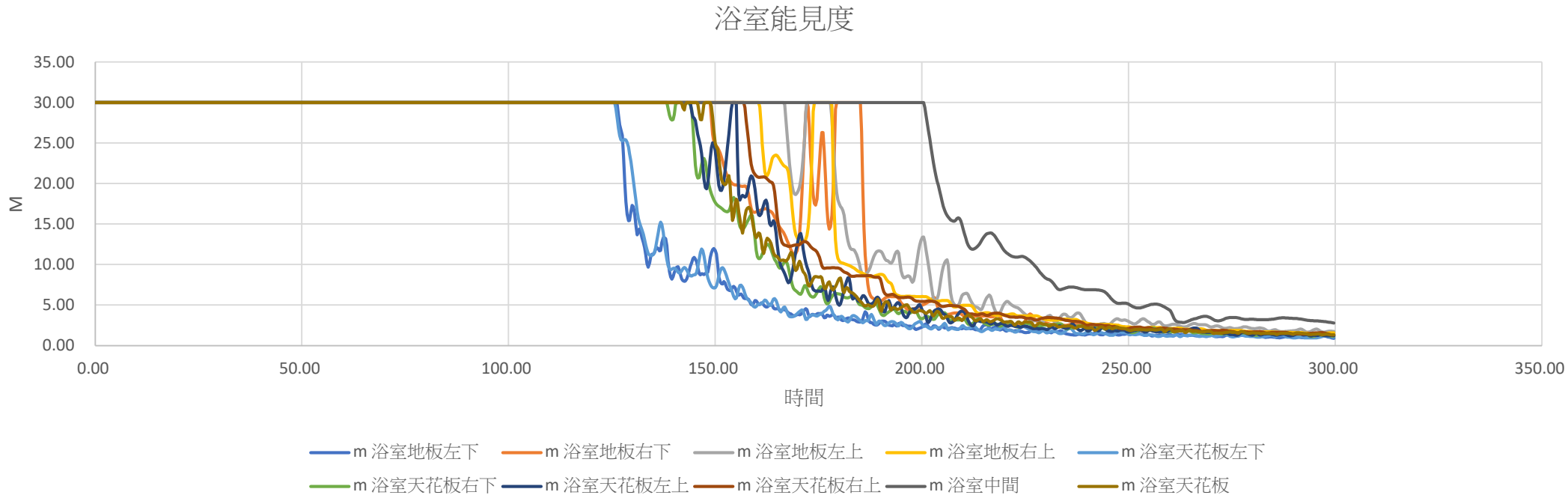
- 洗手台:長0.5m寬0.5m高1.5m
- 浴缸:長2.3m寬2.5m高0.5m

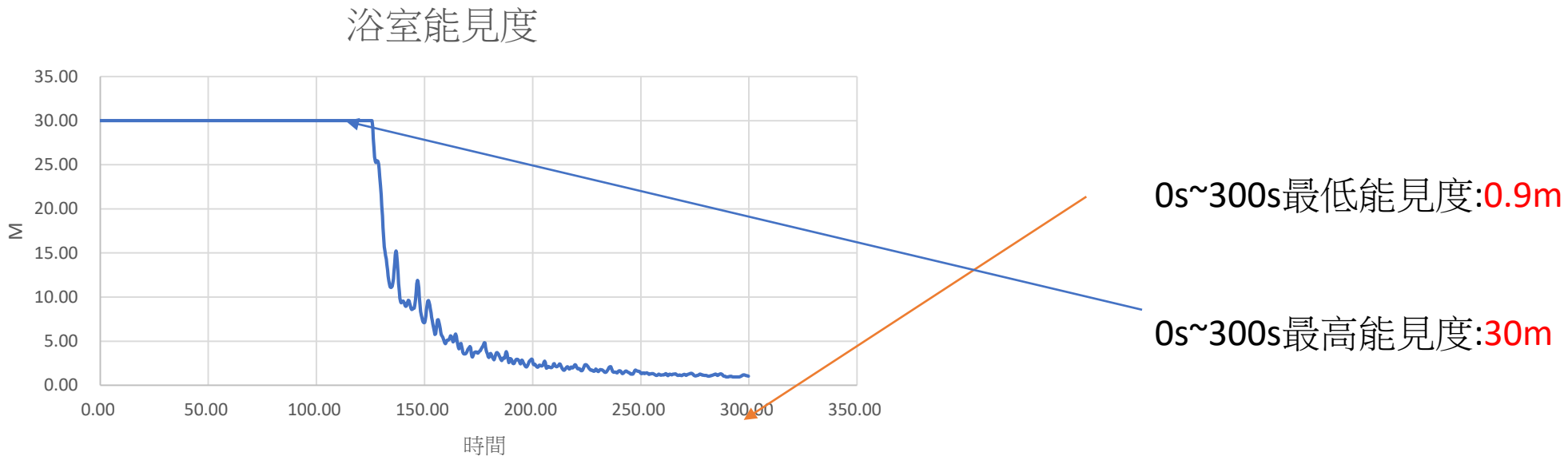


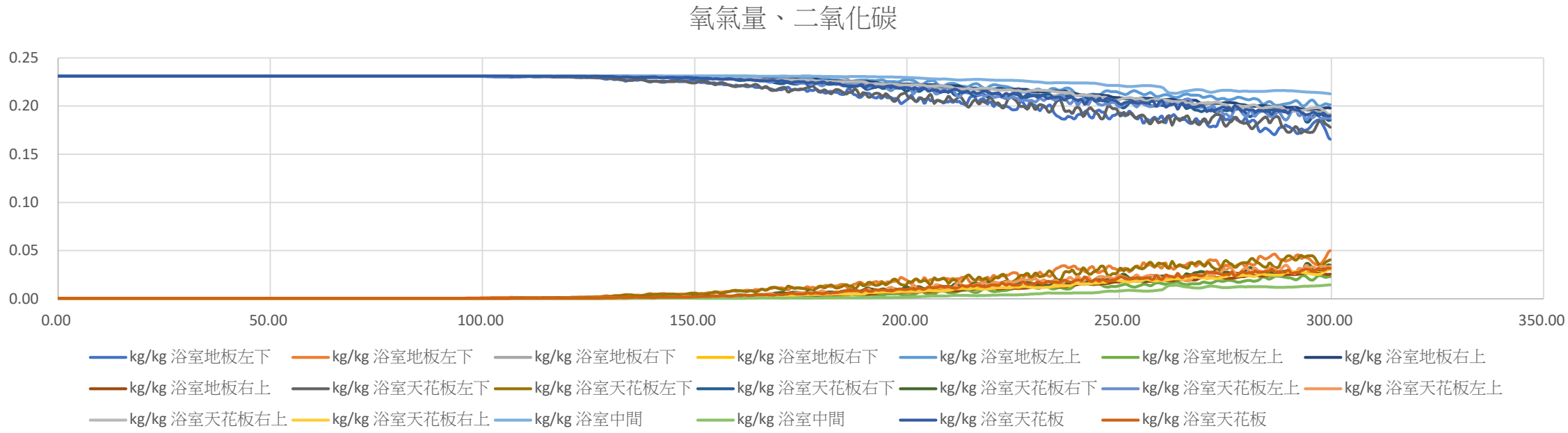


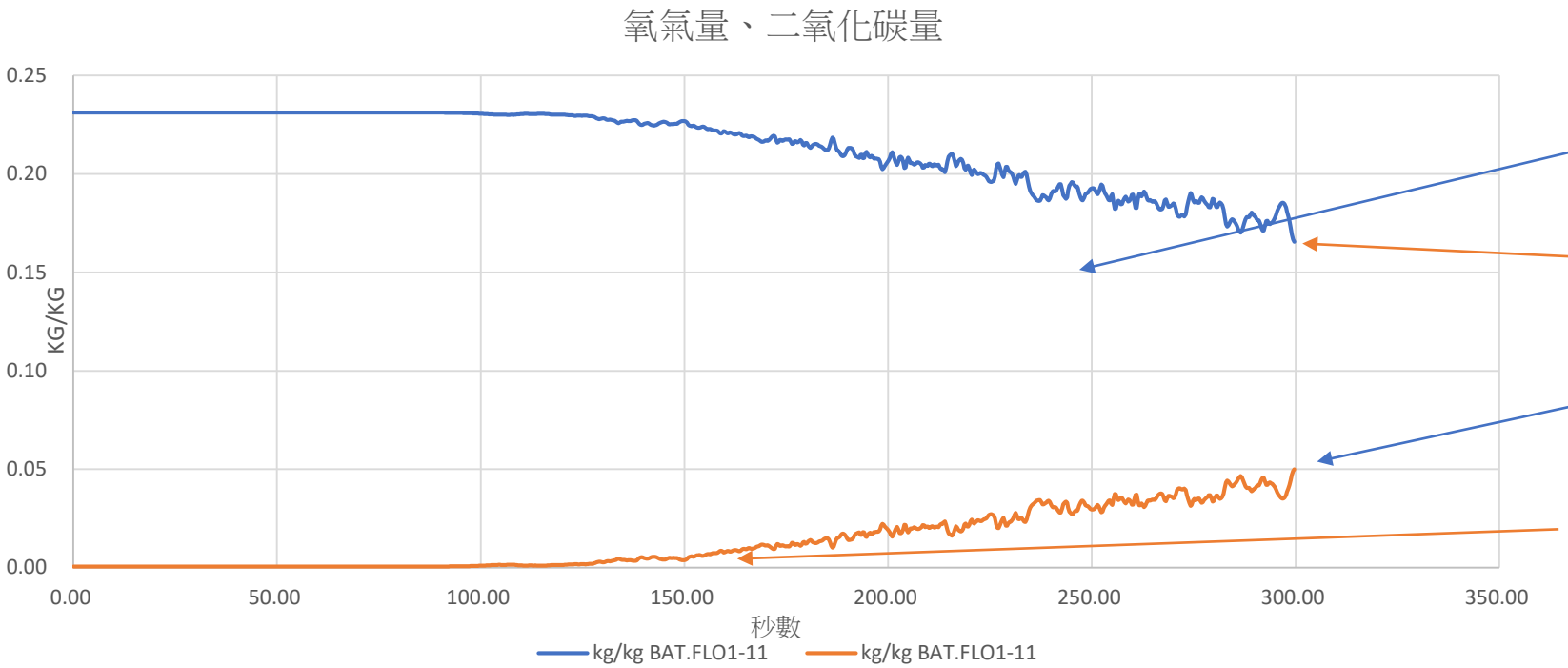
浴室左下角
0s~300s:85°c左右

溫度66℃時灼傷


浴室能見度
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
M
0.00
50.00
100.00
150.00
200.00
250.00
300.00
350.00
時間
m 浴室地板左下
m 浴室地板右下
m 浴室地板左上
m 浴室地板右上
m 浴室天花板左下
m 浴室天花板右下
m 浴室天花板左上
m 浴室天花板右上
m 浴室中間
m 浴室天花板


浴室能見度
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
M
0.00
50.00
100.00
150.00
200.00
250.00
300.00
350.00
時間
0s~300s最低能見度:0.9m
0s~300s最高能見度:30m





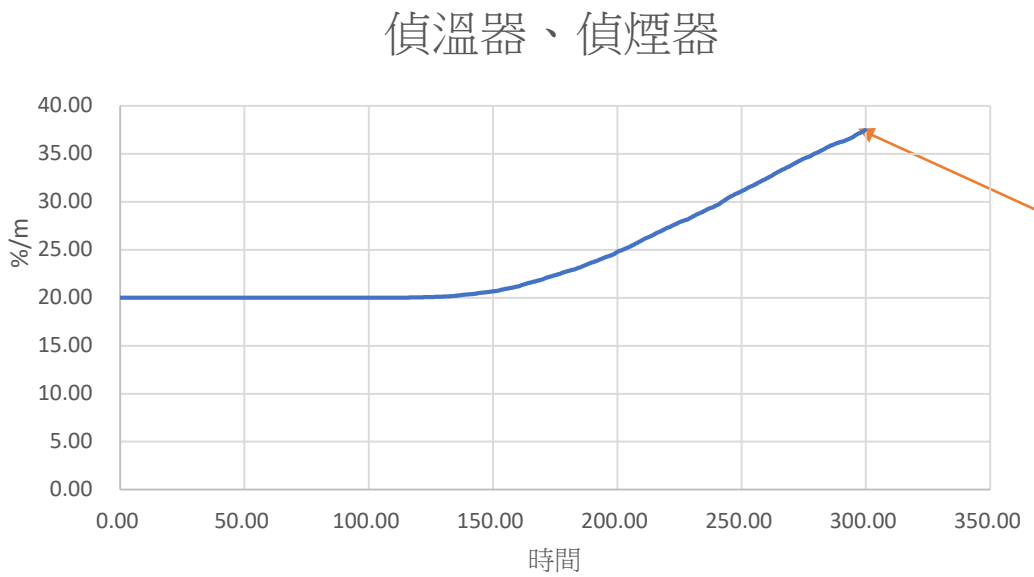
浴室地板左下

氧氣0.16kg/kg濃度以下會缺氧

氧氣量:0.13Kg/kg

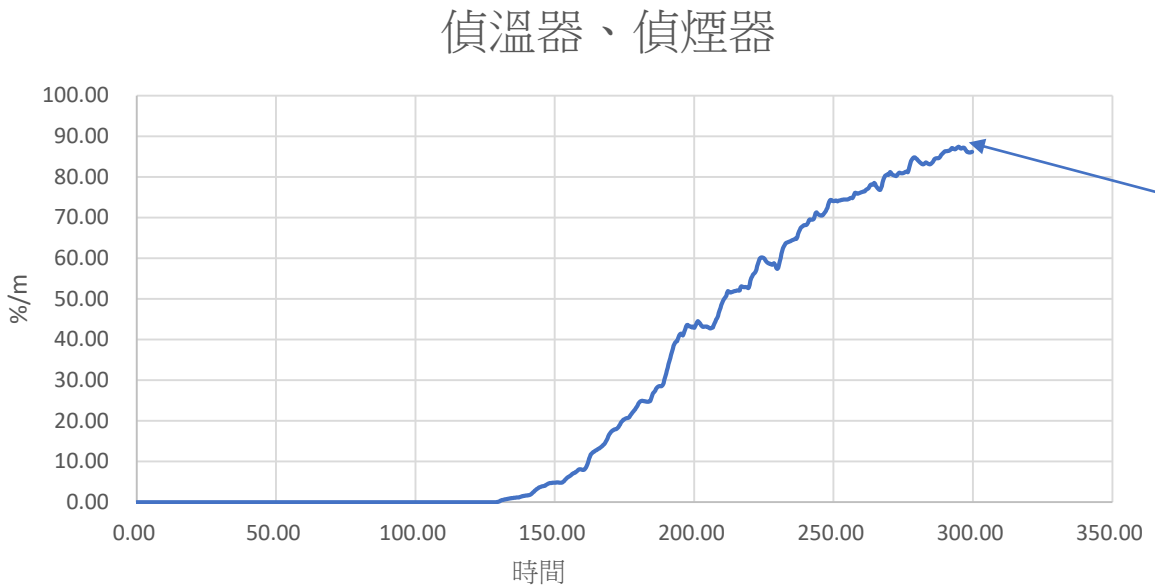
最高二氧化碳量:0.075kg/kg

二氧化碳在0.02kg/kg會呼吸困難



偵溫器

偵測最高溫度達37°c



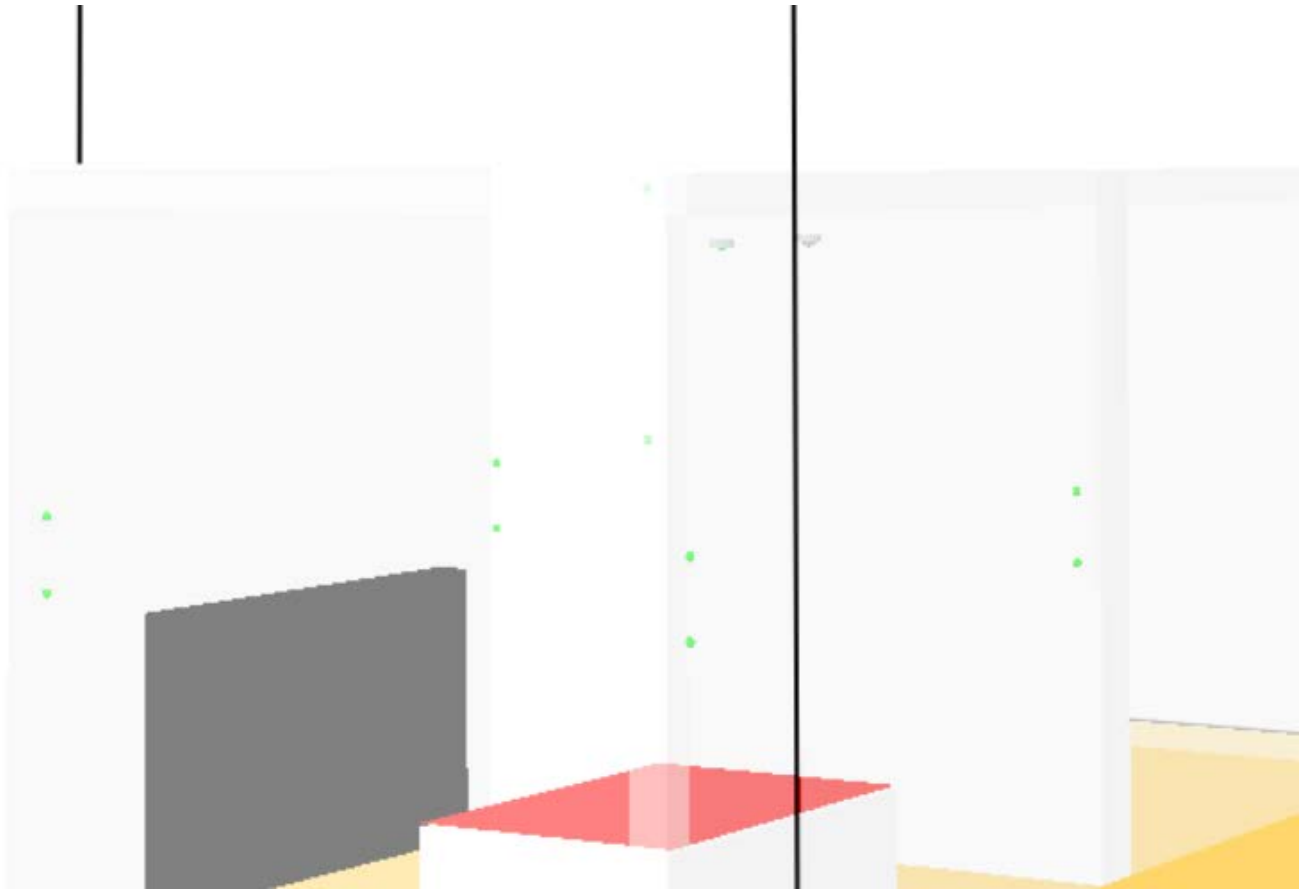
偵煙器

偵測最高濃度達87%/m

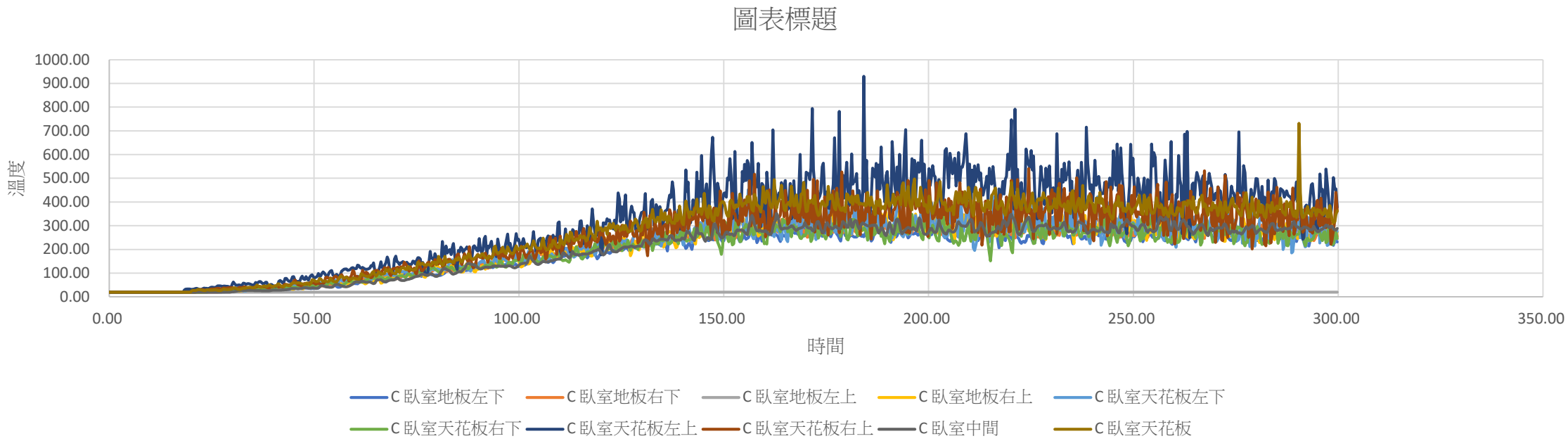
浴室偵煙器
浴室偵溫器
沒有作動
180
Time: 180.0

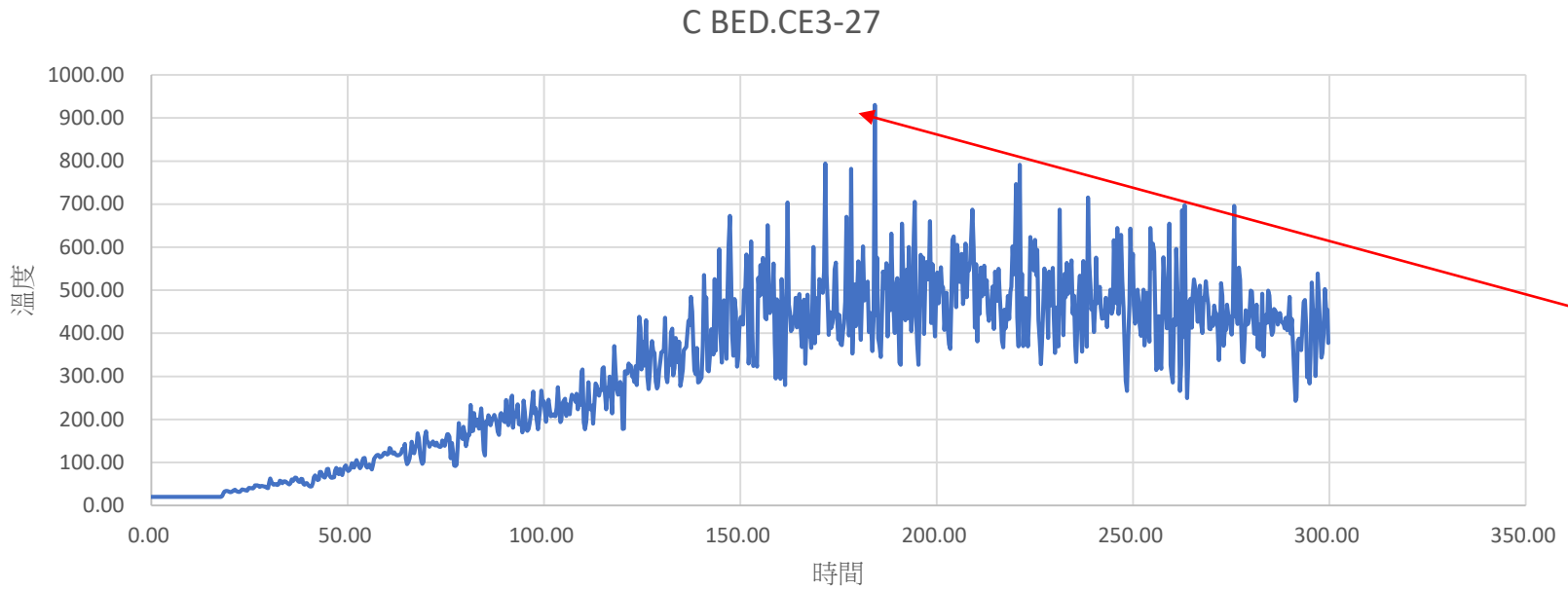
臥室

電視:長3m寬0.1m 高1.5m



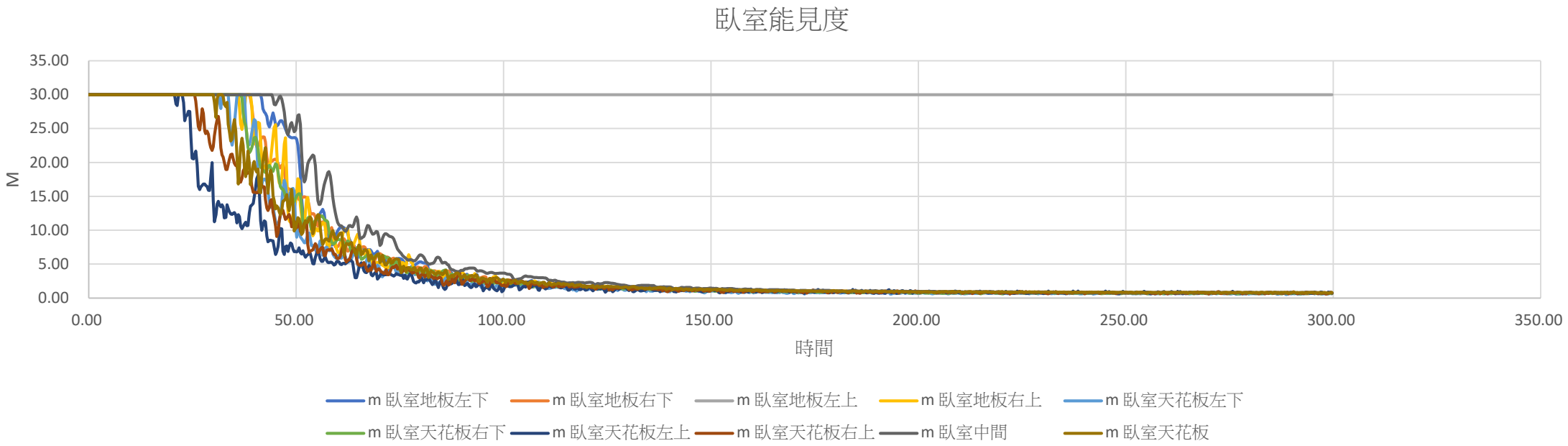
床:長2.5m寬1.4m高0.8m

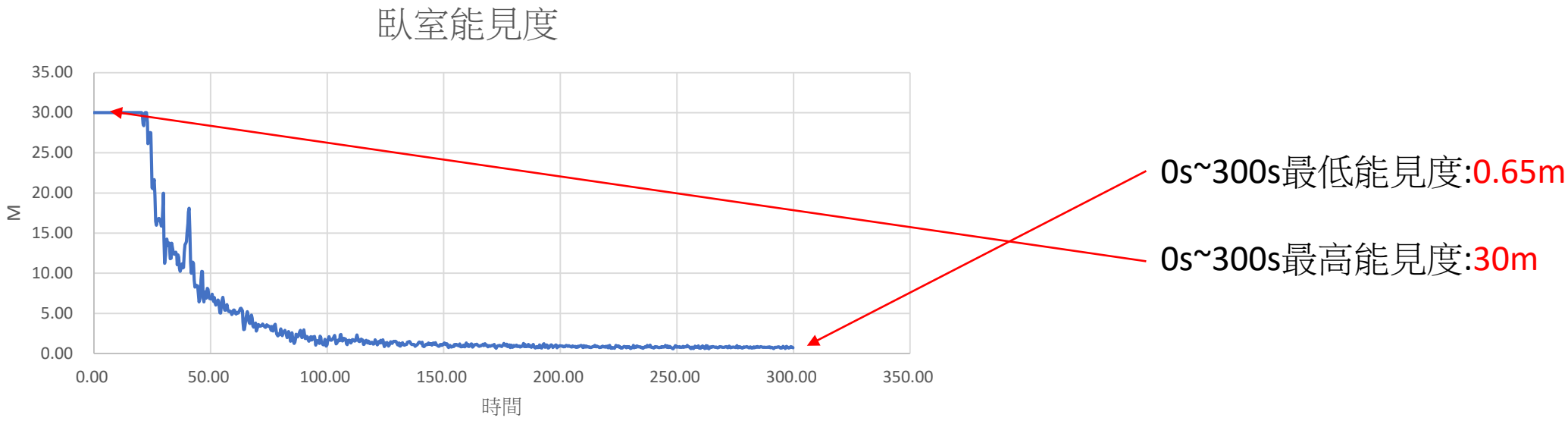


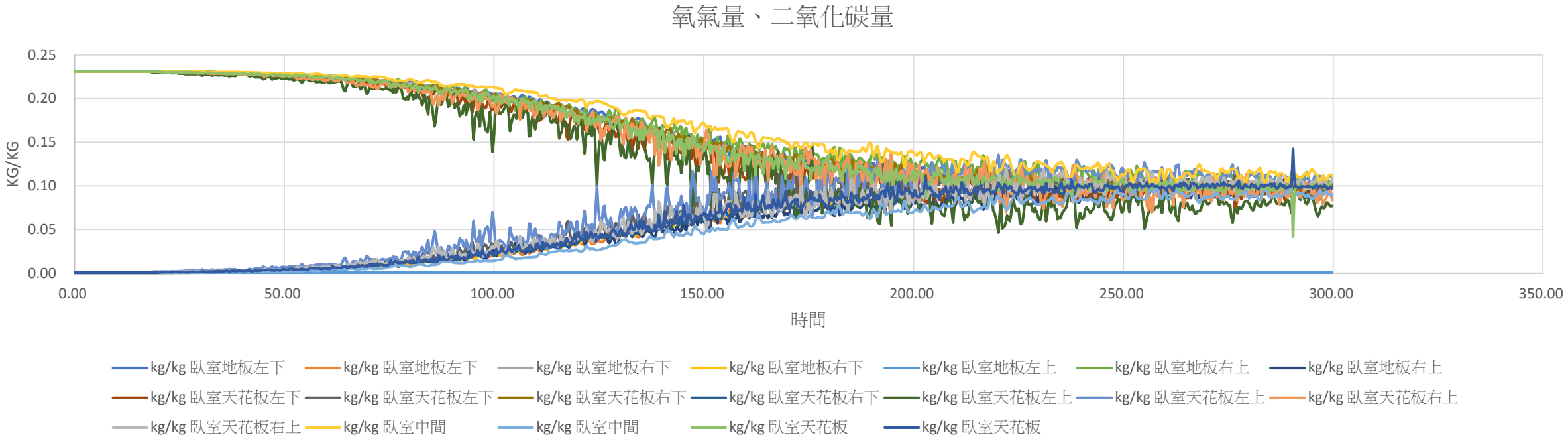


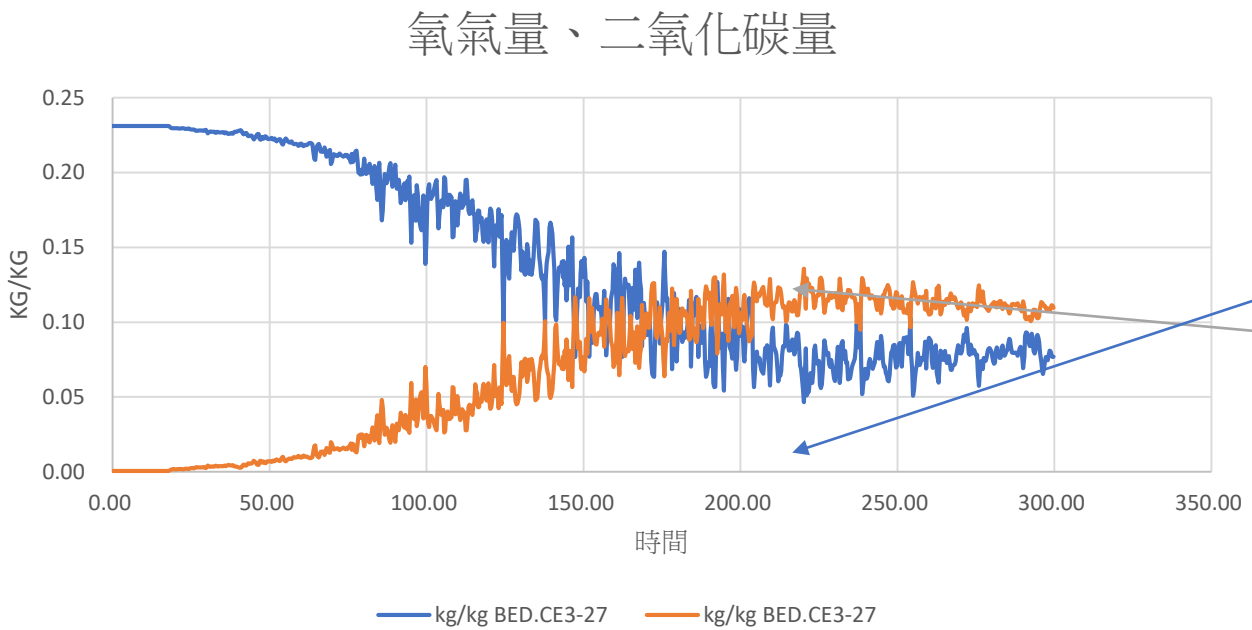
臥室左上角
0s~300s:930°c左右

溫度66℃時灼傷


臥室能見度
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
M
0.00
50.00
100.00
150.00
200.00
250.00
300.00
350.00
時間
m 臥室地板左下
m 臥室地板右下
m 臥室地板左上
m 臥室地板右上
m 臥室天花板左下
m 臥室天花板右下
m 臥室天花板左上
m 臥室天花板右上
m 臥室中間
m 臥室天花板


臥室能見度
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
M
0.00
50.00
100.00
150.00
200.00
250.00
300.00
350.00
時間
0s~300s最低能見度:0.65m
0s~300s最高能見度:30m



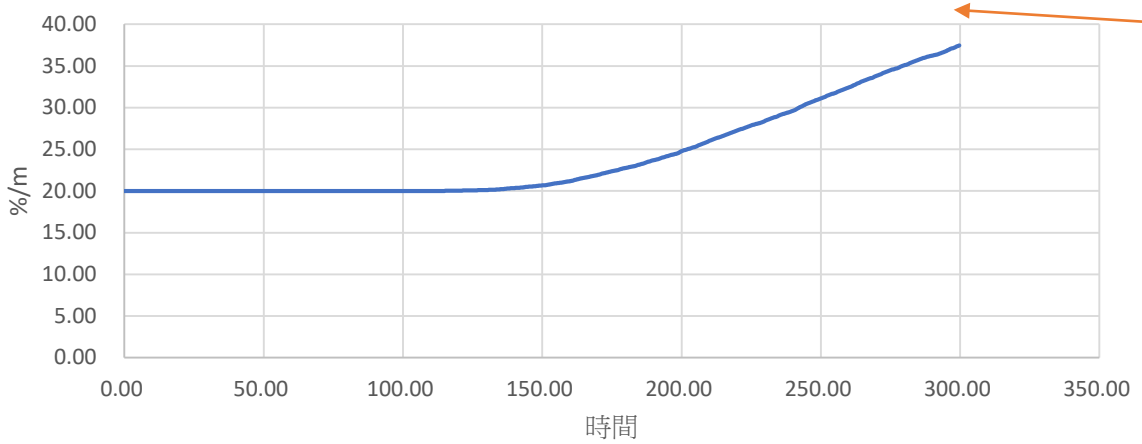


臥室天花板左上

氧氣量:0.046Kg/kg

最高二氧化碳量:0.14kg/kg

偵溫器、偵煙器



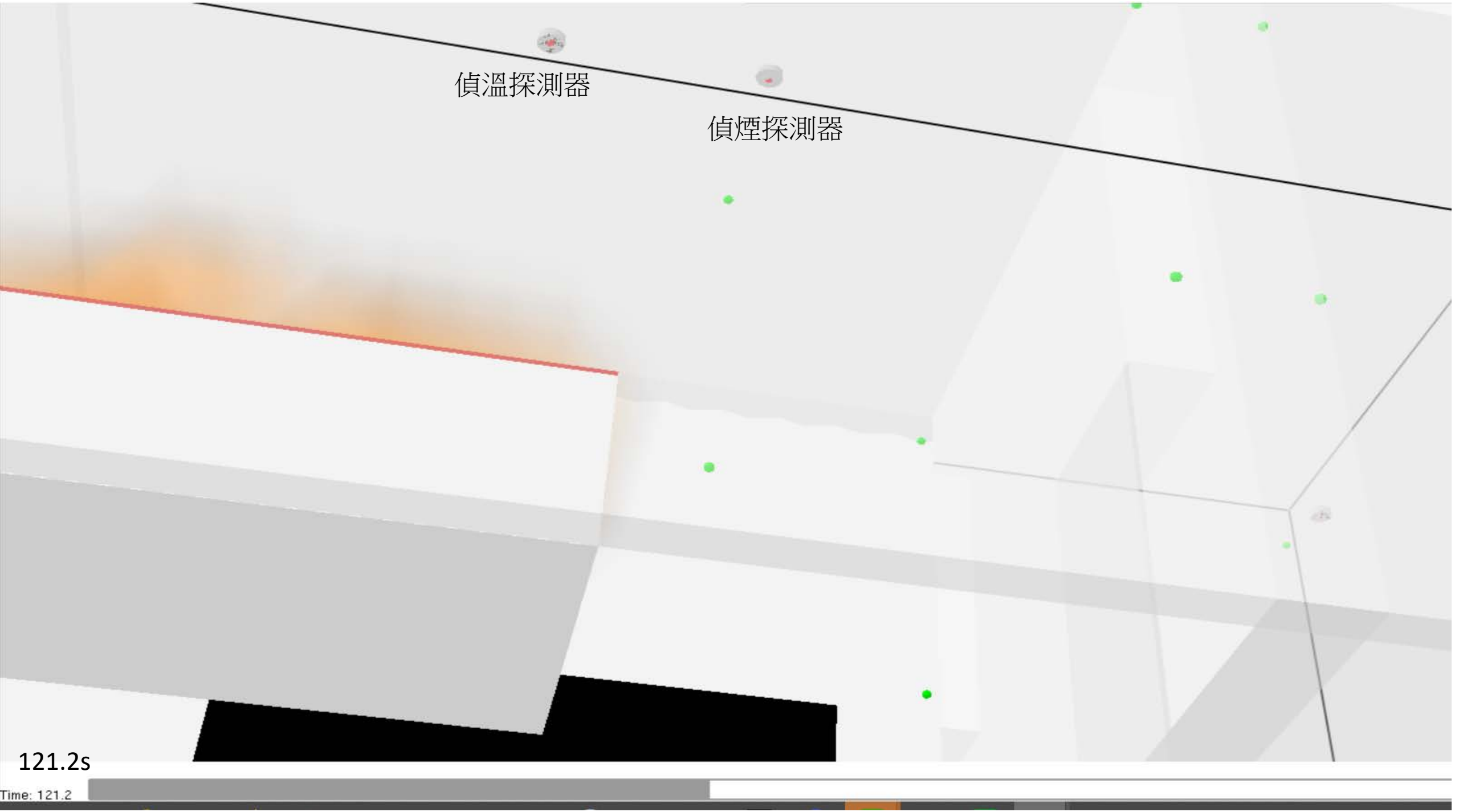
偵溫器

偵測最高溫度達362°c

偵溫器、偵煙器

偵煙器

偵測最高濃度達98%/m


偵温探測器
偵煙探測器
121.2s
Time: 121.2