

報告

108062313黃允暘

使用資料

- 台指期
- 日盤
- 樣本內： 2022-05-22 ~ 2022-01-22(8個月)
- 樣本外： 2023-01-22 ~ 2023-05-22(4個月)
- 手續費：百萬分之33(原百萬分之2加20元)

使用指標

- 威廉指標(Williams %R)

$$\text{Williams \%R} = \frac{\text{Highest High} - \text{Close}}{\text{Highest High} - \text{Lowest Low}}$$

- 簡單移動平均線(SMA)

WL = 65
OB = -15
stop_pct = 5 #表示0.5%
OS = -70

期中策略(5分K)

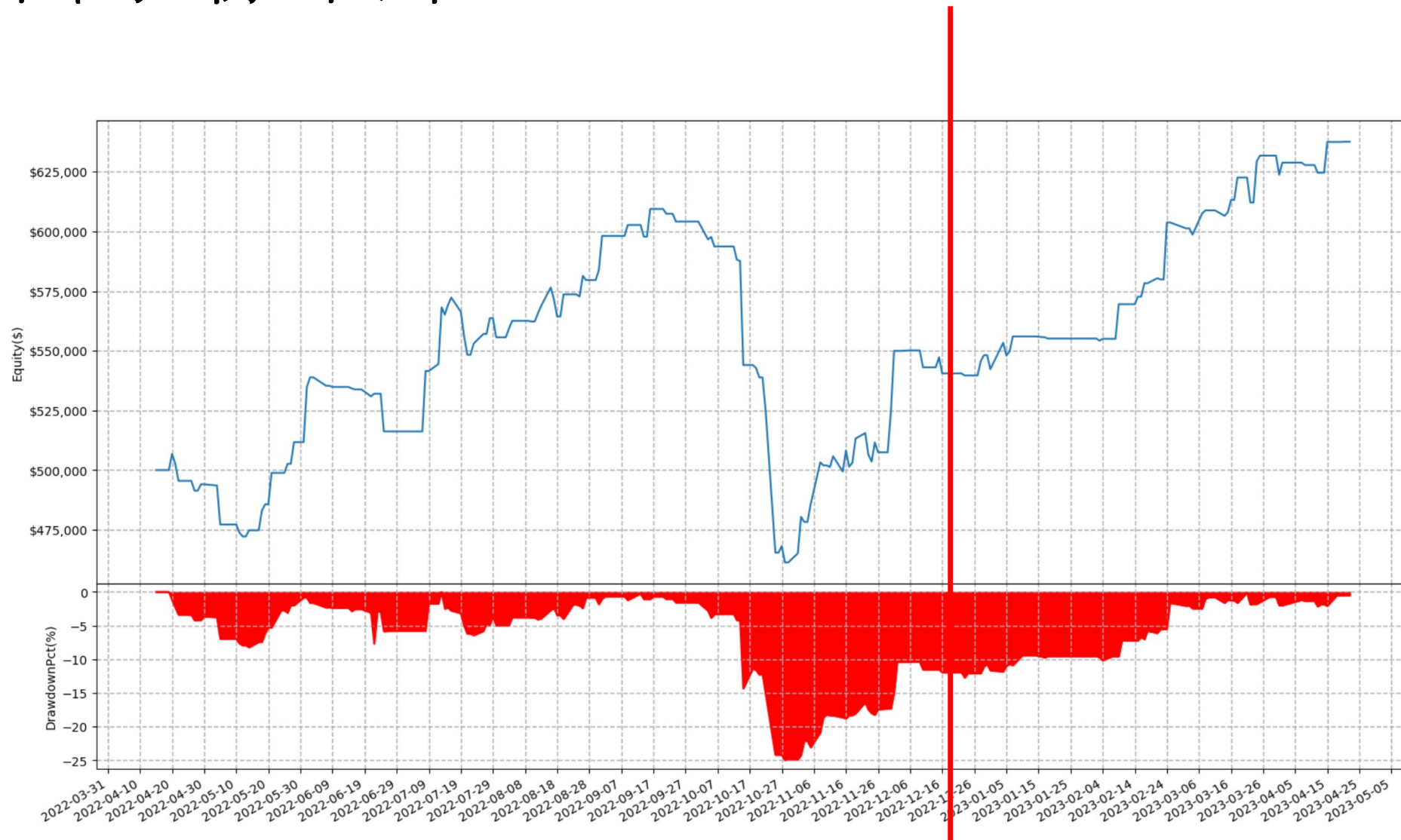
多單策略：

- 進場：
 - WR向上超越超買區
 - 開盤15分鐘後進場
- 出場：
 - 百分比停損 0.5%
 - 跌破3根低點
 - WR跌出超買區
 - 13.30平倉

空單策略：

- 進場：
 - WR向下超越超賣區
 - 開盤15分鐘後進場
- 出場：
 - 百分比停損 0.5%
 - 超出3根高點
 - WR向上超出超賣區
 - 13.30平倉

樣本內+樣本外



Start	2022-04-14 08:50:00
End	2023-04-21 13:45:00
Duration	372 days 04:55:00
Exposure Time [%]	14.103079
Equity Final [\$]	637621.2214
Equity Peak [\$]	640830.8308
Return [%]	27.524244
Buy & Hold Return [%]	-9.875332
Return (Ann.) [%]	27.898356
Volatility (Ann.) [%]	28.47416
Sharpe Ratio	0.979778
Sortino Ratio	1.752039
Calmar Ratio	1.117214
Max. Drawdown [%]	-24.971365
Avg. Drawdown [%]	-2.031925
Max. Drawdown Duration	180 days 21:55:00
Avg. Drawdown Duration	9 days 20:55:00
# Trades	291
Win Rate [%]	37.113402
Best Trade [%]	0.968368
Worst Trade [%]	-2.202798
Avg. Trade [%]	0.013383
Max. Trade Duration	2 days 19:05:00
Avg. Trade Duration	0 days 01:09:00
Profit Factor	1.206688
Expectancy [%]	0.013764
SQN	1.051569
_strategy	WL
_equity_curve	...
_trades	Size Entry...
dtype: object	

期末策略 (5分K)

WL = 65
OB = -15
stop_pct = 1 #表示0.x%
OS = -80
L = 2

n1 = 15
n2 = 55

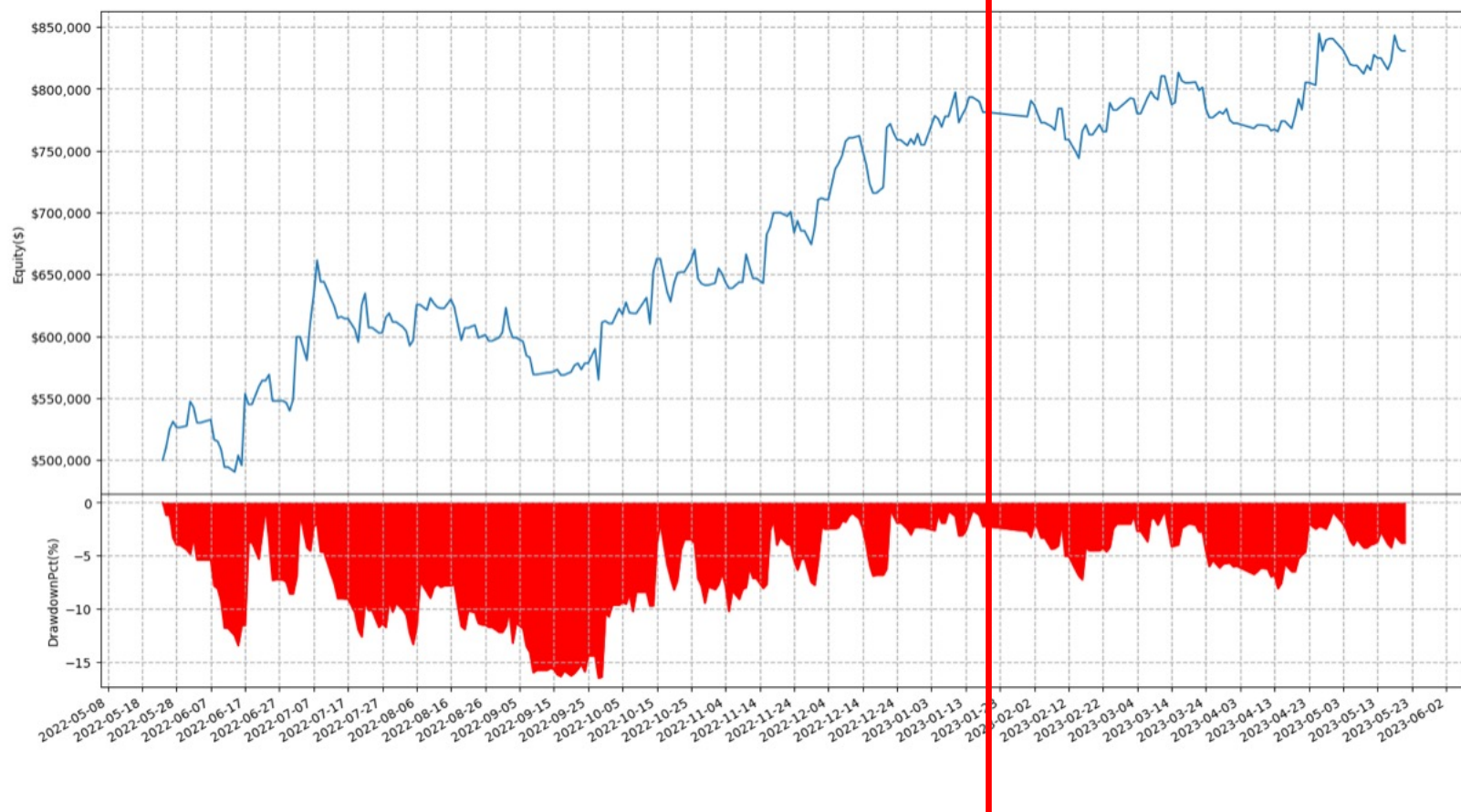
多單策略：

- 進場：
 - WR向上超越超買區
 - SMA黃金交叉
 - 開盤15分鐘後進場
- 出場：
 - 百分比停損 0.5%
 - 跌破3根低點停利停損
 - WR跌出超買區
 - SMA死亡交叉
 - 13.30平倉

空單策略：

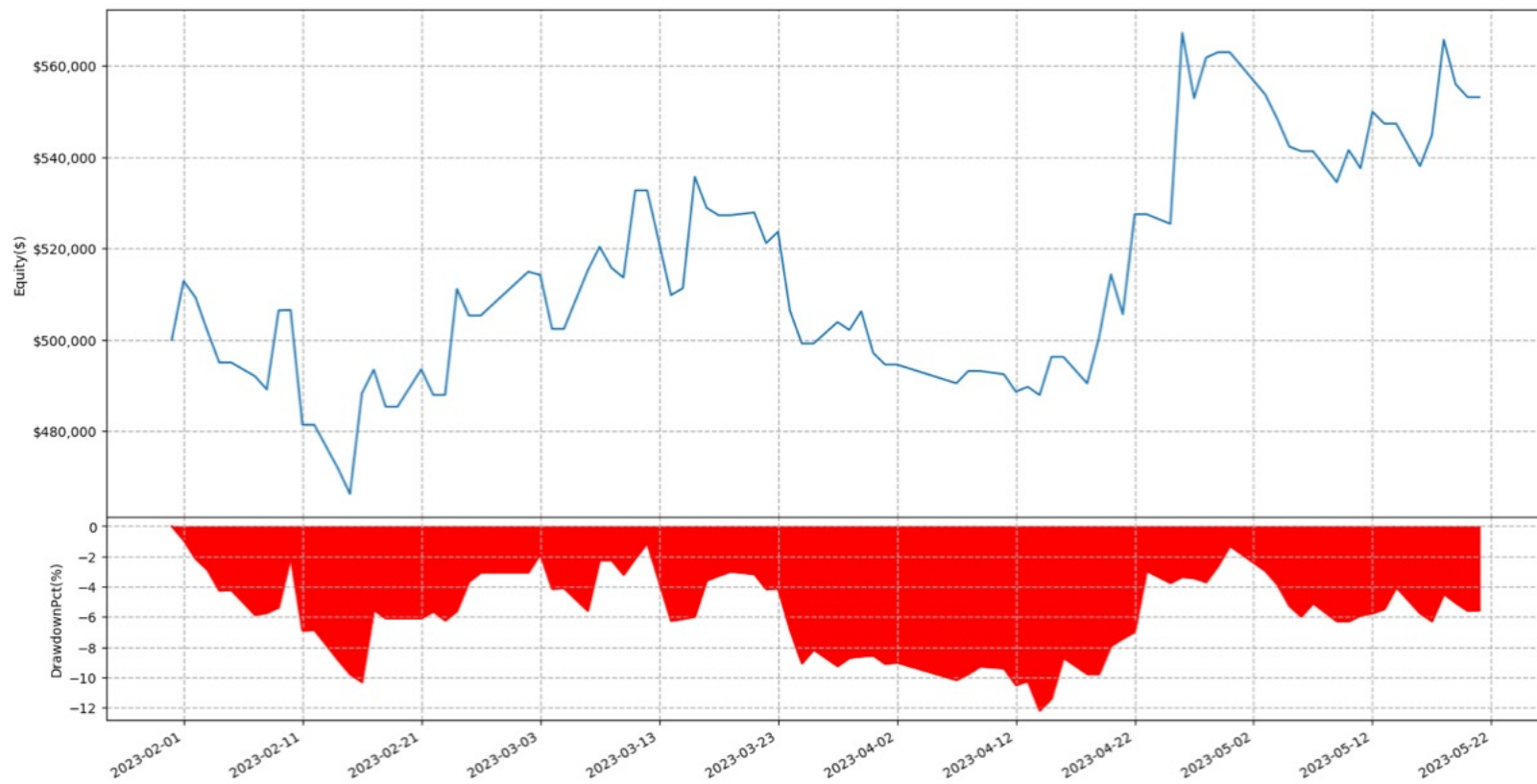
- 進場：
 - WR向下超越超賣區
 - SMA死亡交叉
 - 開盤15分鐘後進場
- 出場：
 - 百分比停損 0.5%
 - 超出3根高點停利停損
 - WR向上超出超賣區
 - SMA黃金交叉
 - 13.30平倉

樣本內+樣本外



Start	2022-05-23 08:50:00
End	2023-05-20 05:00:00
Duration	361 days 20:10:00
Exposure Time [%]	12.211831
Equity Final [\$]	830725.6964
Equity Peak [\$]	863292.2002
Return [%]	66.145139
Buy & Hold Return [%]	-0.86191
Return (Ann.) [%]	54.751341
Volatility (Ann.) [%]	48.43744
Sharpe Ratio	1.130352
Sortino Ratio	3.474203
Calmar Ratio	3.323024
Max. Drawdown [%]	-16.476358
Avg. Drawdown [%]	-2.029129
Max. Drawdown Duration	109 days 22:50:00
Avg. Drawdown Duration	4 days 07:47:00
# Trades	1071
Win Rate [%]	33.893557
Best Trade [%]	1.845072
Worst Trade [%]	-0.634784
Avg. Trade [%]	0.010407
Max. Trade Duration	0 days 04:25:00
Avg. Trade Duration	0 days 00:27:00
Profit Factor	1.170264
Expectancy [%]	0.010664
SQN	1.522052
_strategy	WL
_equity_curve	...
_trades	Size Entr...
dtype:	object

樣本外(5分K)



Start	2023-01-30 08:50:00
End	2023-05-20 05:00:00
Duration	109 days 20:10:00
Exposure Time [%]	11.516121
Equity Final [\$]	553120.6004
Equity Peak [\$]	585687.1042
Return [%]	10.62412
Buy & Hold Return [%]	4.078335
Return (Ann.) [%]	32.672075
Volatility (Ann.) [%]	42.996419
Sharpe Ratio	0.759879
Sortino Ratio	1.846661
Calmar Ratio	2.679897
Max. Drawdown [%]	-12.191541
Avg. Drawdown [%]	-2.447188
Max. Drawdown Duration	40 days 00:50:00
Avg. Drawdown Duration	4 days 08:23:00
# Trades	305
Win Rate [%]	39.016393
Best Trade [%]	1.336316
Worst Trade [%]	-0.371101
Avg. Trade [%]	0.005405
Max. Trade Duration	0 days 03:50:00
Avg. Trade Duration	0 days 00:28:00
Profit Factor	1.108052
Expectancy [%]	0.005558
SQN	0.556385
_strategy	WL
_equity_curve	...
_trades	Size Entry...
dtype:	object