

# Analysis For Eureka

## v3-3 part 2

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## 1 100 cases - part 2

Table 1: The One Hundred Cases to 20171108

No	Inst	Cline	Reached	Reverse	Dir	Why
	OI	1	2543224	2543300		
	FG	1	2690768	2690850		
	CF	1	2796907	2796950		
	m9	1	2576577	2576649		
	CF	-1	3031496	3031550		
	bu	1	3070242	3070350		
	ag	-1	2378412	2378450		
	zn	-1	2827431	2827490		
	v9	-1	3111591	3111672		
	SR	1	2878389	2878498		
	l9	-1	2866246	2866337		
	al	1	2923570	2923640		
	zn	1	2305906	2306002		
	i9	-1	2962956	2963027		
	bu	1	2900555	2900664		
	l9	-1	2718252	2718364		
	i9	1	3135752	3135837		
	OI	-1	2850725	2850762		
	SR	-1	2522536	2522607		
	OI	1	3105616	3105707		

## 2 Detail - part 2

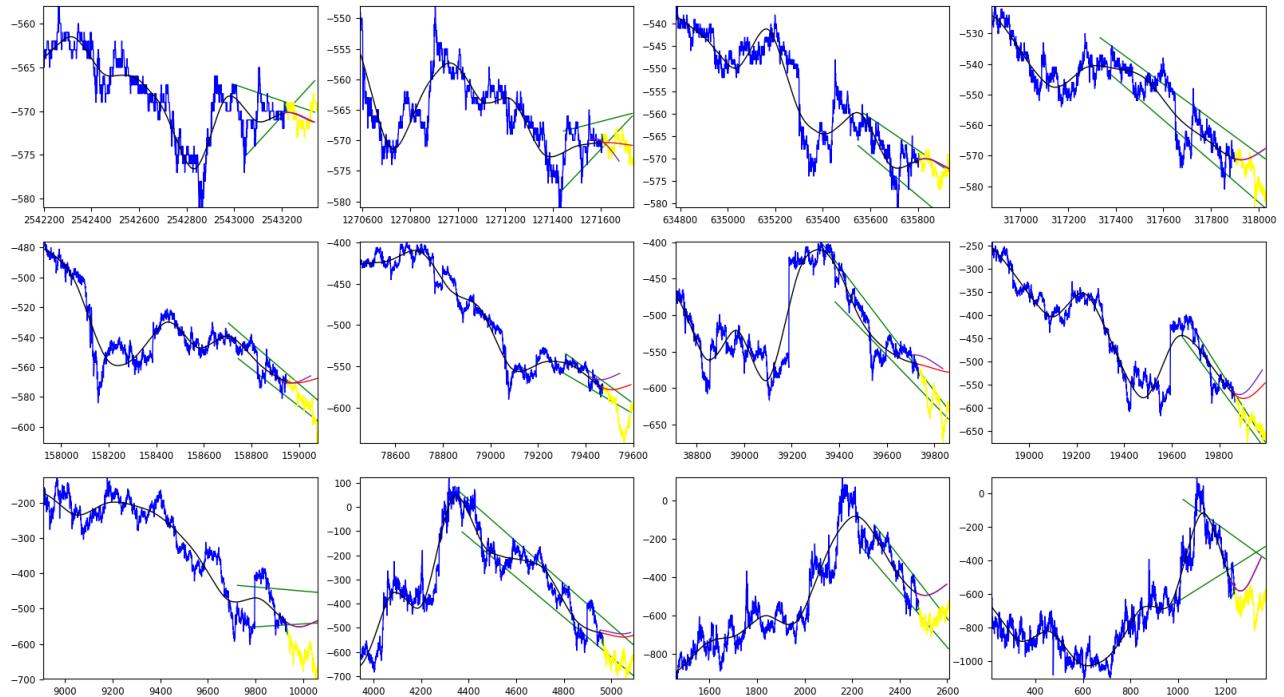
### 2.1 OI 2543224 2543300

2543224: ptype: 4[0] 3[1] 4[2] 5[3,4,5] 3[6] 7[7] 5[8,9,10] 7[11]

dir: 1[0] -1[1] 1[2] -1[3,4,5,6,7,8,9,10,11]

otp: 1[0] 0[1,2,3,4,5] 1[6,7] -1[8] 0[9,10] -1[11]

cshape: 3[0,1] 1[2,3,4,5,6,7] 3[8] 1[9,10] 3[11]

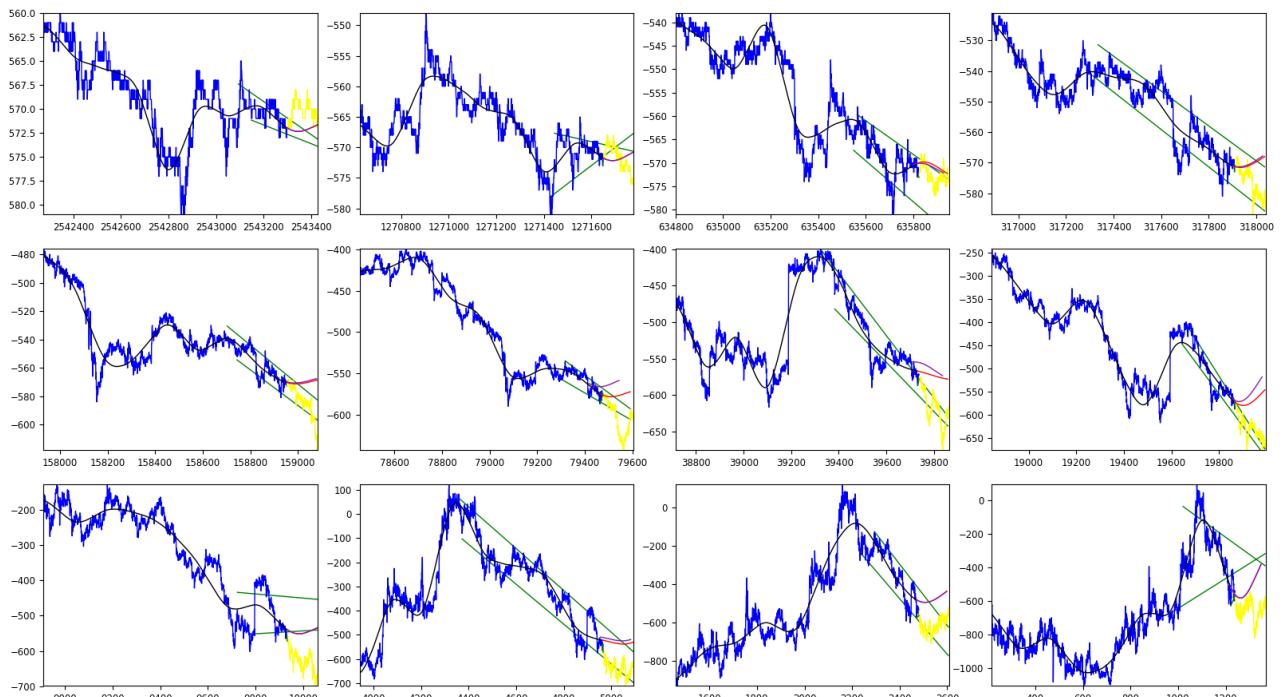


2543300: ptype: 5[0,1] 4[2] 5[3,4,5] 3[6] 7[7] 5[8,9,10] 7[11]

dir: -1[0,1] 1[2] -1[3,4,5,6,7,8,9,10,11]

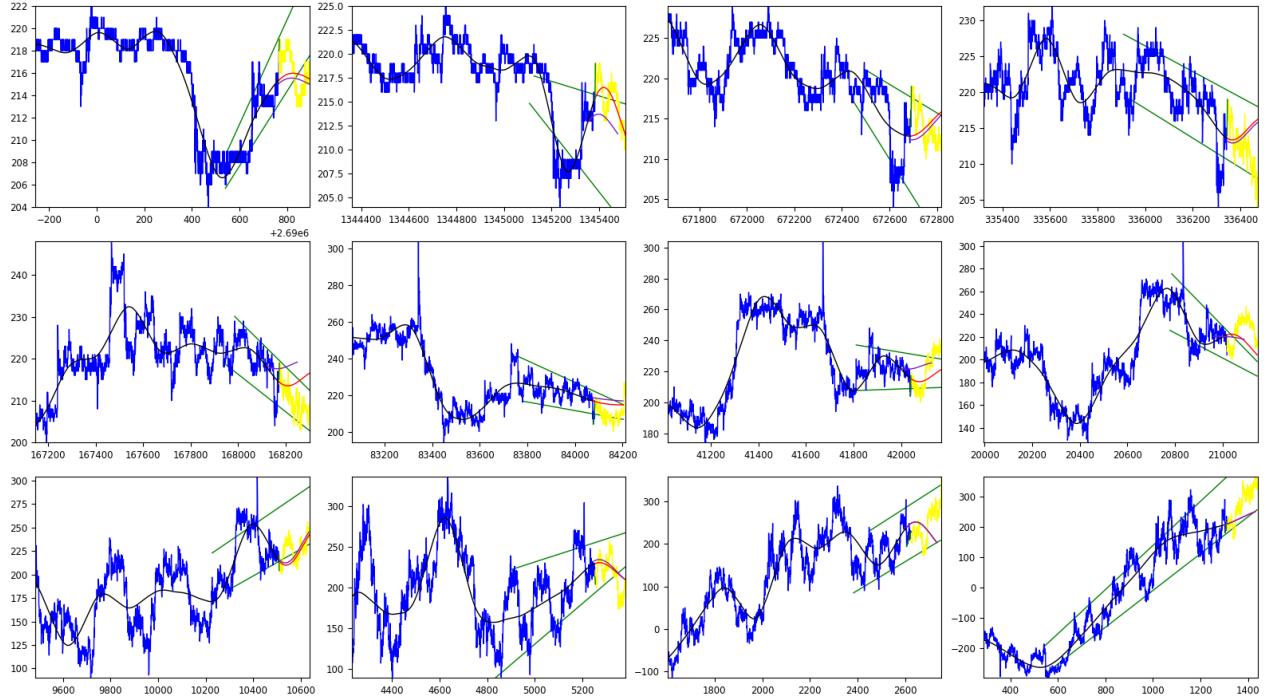
otp: 0[0] -1[1] 0[2,3,4,5] 1[6,7] -1[8] 0[9,10] -1[11]

cshape: 3[0,1] 1[2,3,4,5,6,7] 3[8] 1[9,10] 3[11]

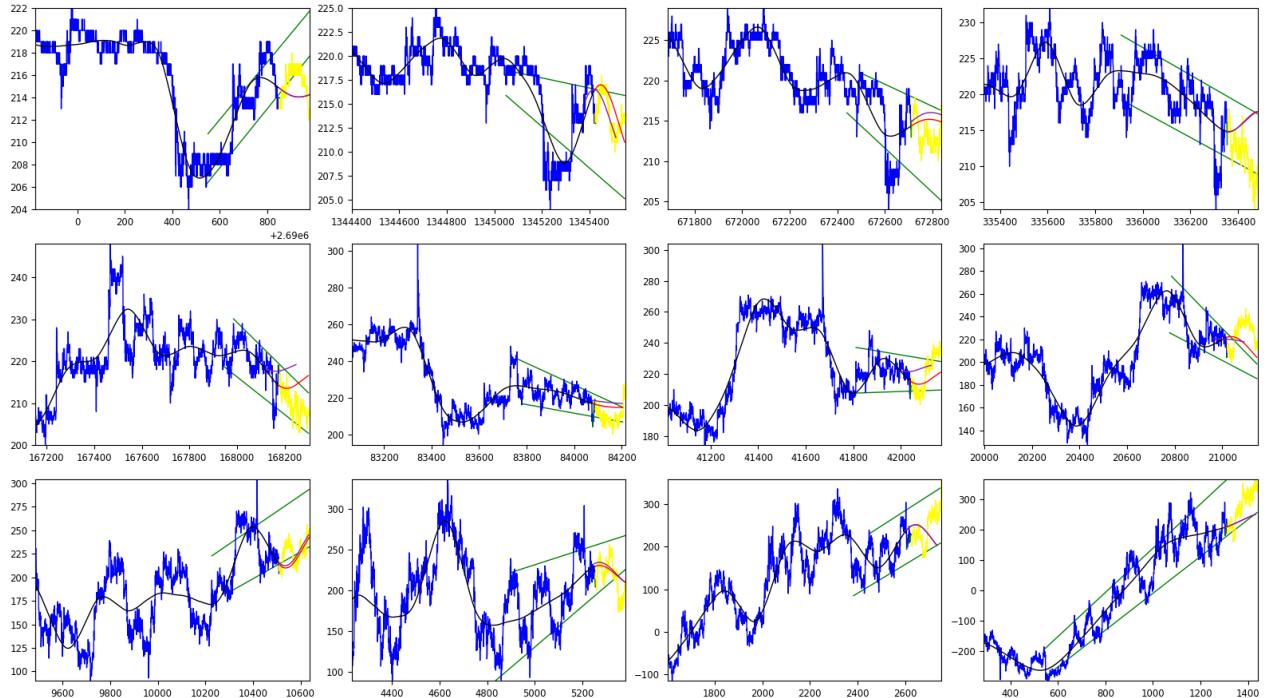


## 2.2 FG 2690768 2690850

2690768: ptype: 4[0] 6[1] 2[2] 5[3] 7[4] 3[5] 7[6] 4[7] 7[8] 4[9] 6[10] 2[11]  
 dir: 1[0,1,2] -1[3,4,5,6] 1[7] -1[8] 1[9,10,11]  
 otp: 0[0] 1[1,2] 0[3,4,5,6,7,8,9,10,11]  
 cshape: 1[0] 3[1,2] 1[3,4] 3[5,6,7] 1[8] 3[9] 1[10,11]



2690850: ptype: 5[0] 6[1] 4[2] 2[3] 7[4] 3[5] 7[6] 4[7] 7[8] 4[9] 6[10] 2[11]  
 dir: -1[0] 1[1,2,3] -1[4,5,6] 1[7] -1[8] 1[9,10,11]  
 otp: -1[0] 0[1,2,3,4,5,6,7] -1[8] 0[9,10,11]  
 cshape: 1[0] 3[1,2] 1[3,4] 3[5,6,7] 1[8] 3[9] 1[10,11]



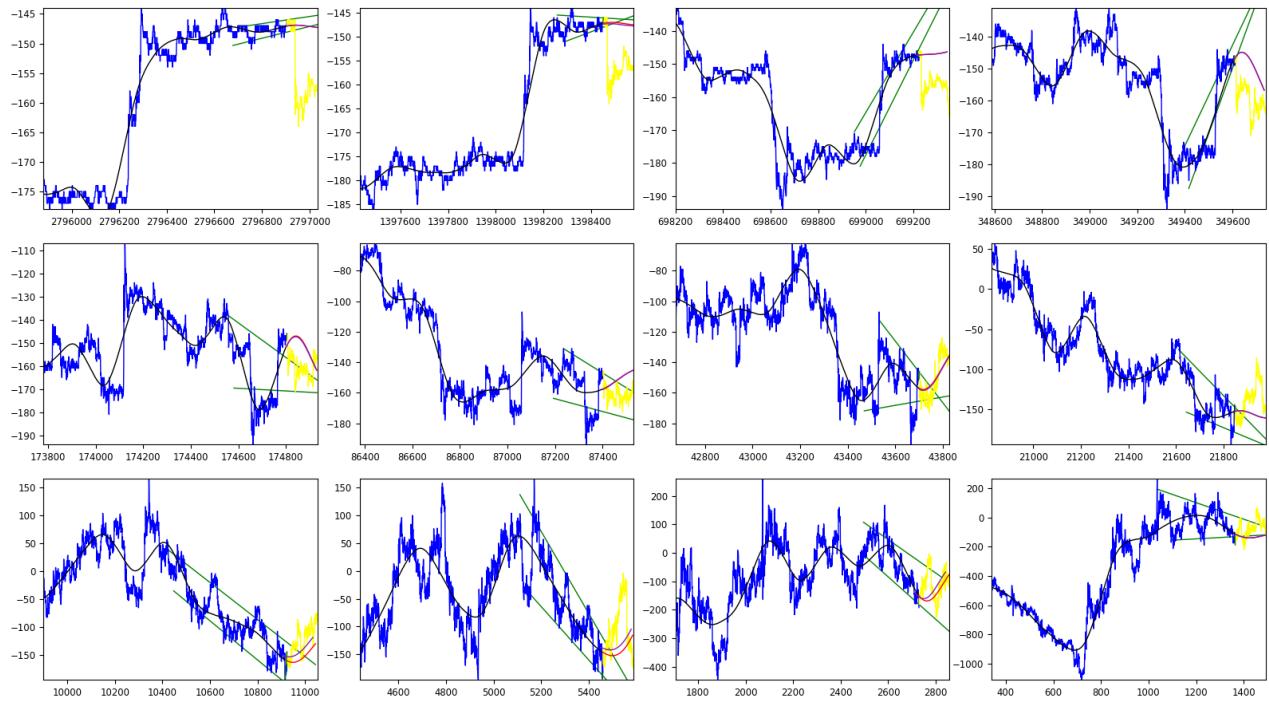
## 2.3 CF 2796907 2796950

2796907: ptype: 4[0,1] 2[2] 6[3,4] 2[5] 5[6] 4[7] 7[8,9,10] 5[11]

dir: 1[0,1,2,3,4,5] -1[6] 1[7] -1[8,9,10,11]

otp: 1[0,1] -1[2] 0[3] 1[4,5] 0[6] 1[7] 0[8,9,10] -1[11]

cshape: 3[0,1] 1[2,3] 3[4,5] 2[6] 3[7] 1[8] 5[9,10] 3[11]

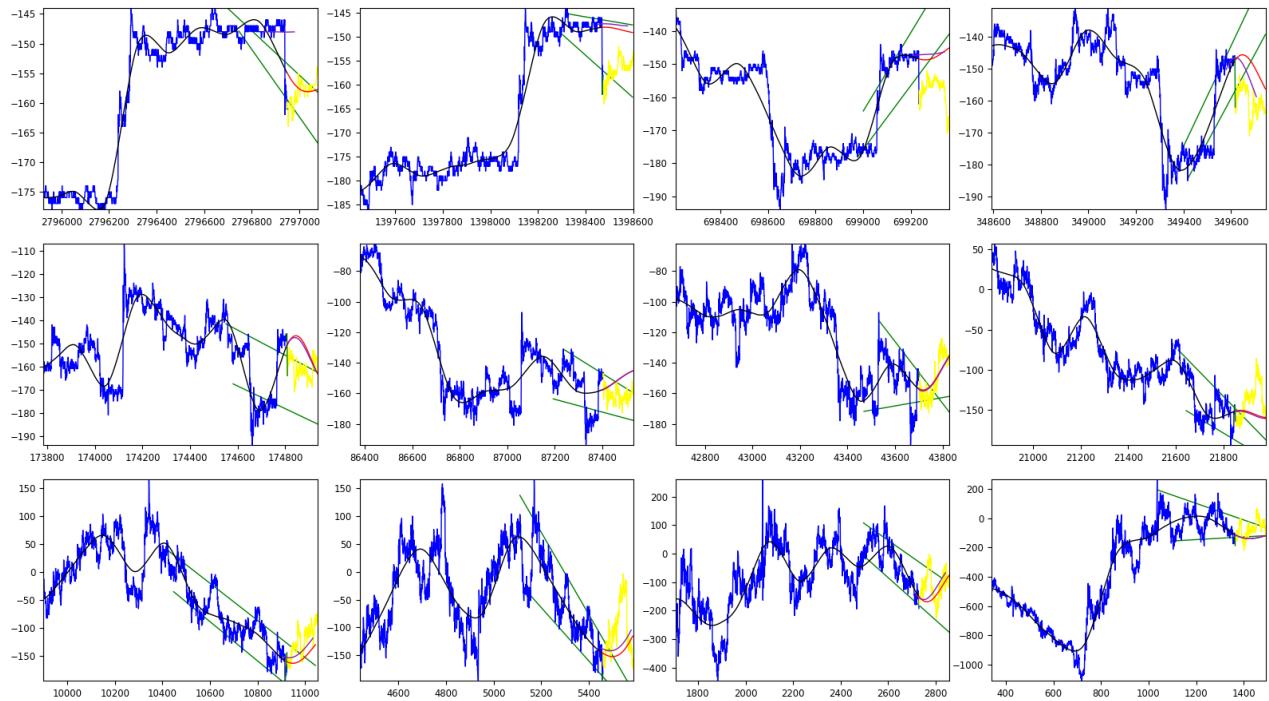


2796950: ptype: 5[0] 3[1] 5[2] 6[3,4] 2[5] 5[6] 4[7] 7[8,9,10] 5[11]

dir: -1[0,1,2] 1[3,4,5] -1[6] 1[7] -1[8,9,10,11]

otp: -1[0,1,2,3] 0[4,5,6,7,8,9,10] -1[11]

cshape: 5[0] 3[1] 1[2,3,4] 3[5] 2[6] 3[7] 1[8] 5[9,10] 3[11]



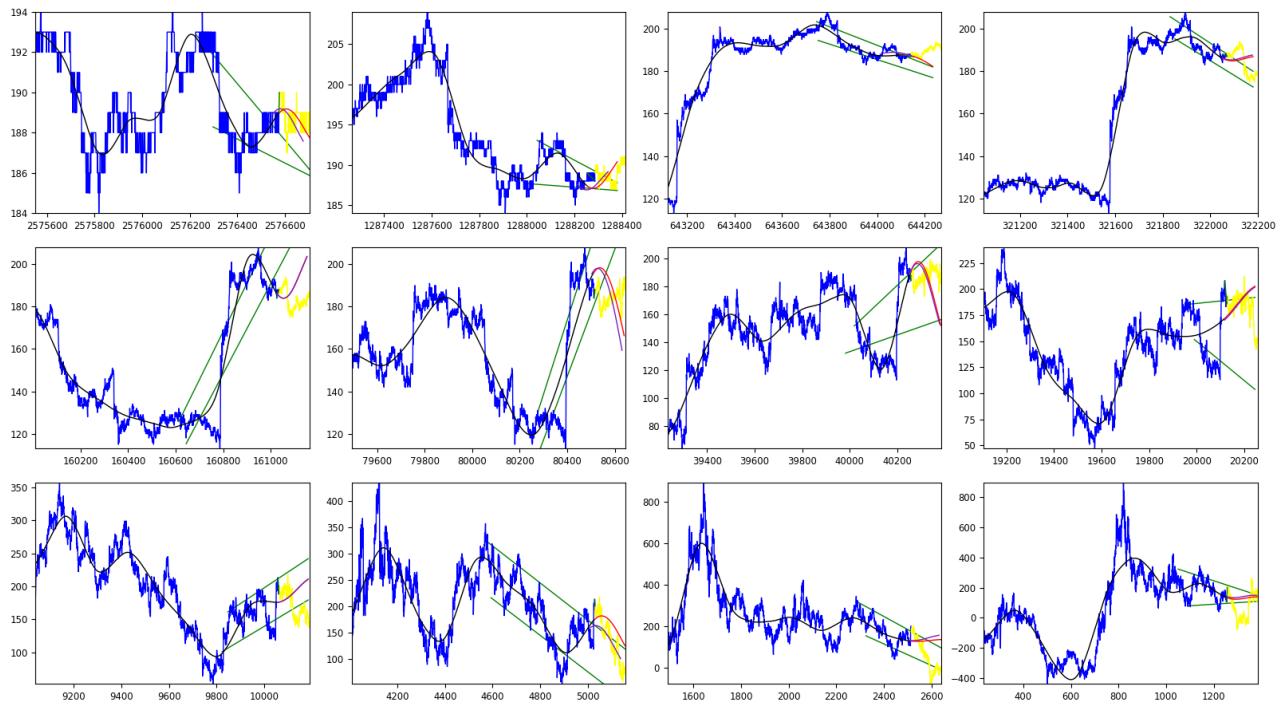
## 2.4 m9 2576577 2576649

2576577: ptype: 6[0] 7[1] 3[2] 5[3] 7[4] 6[5,6] 2[7,8] 6[9] 5[10] 1[11]

dir: 1[0] -1[1,2,3,4] 1[5,6,7,8,9] -1[10] 0[11]

otp: 1[0,1,2,3] -1[4] 0[5,6] 1[7] 0[8] 1[9,10] 0[11]

cshape: 3[0,1] 1[2,3,4,5] 3[6,7] 1[8,9,10] 3[11]

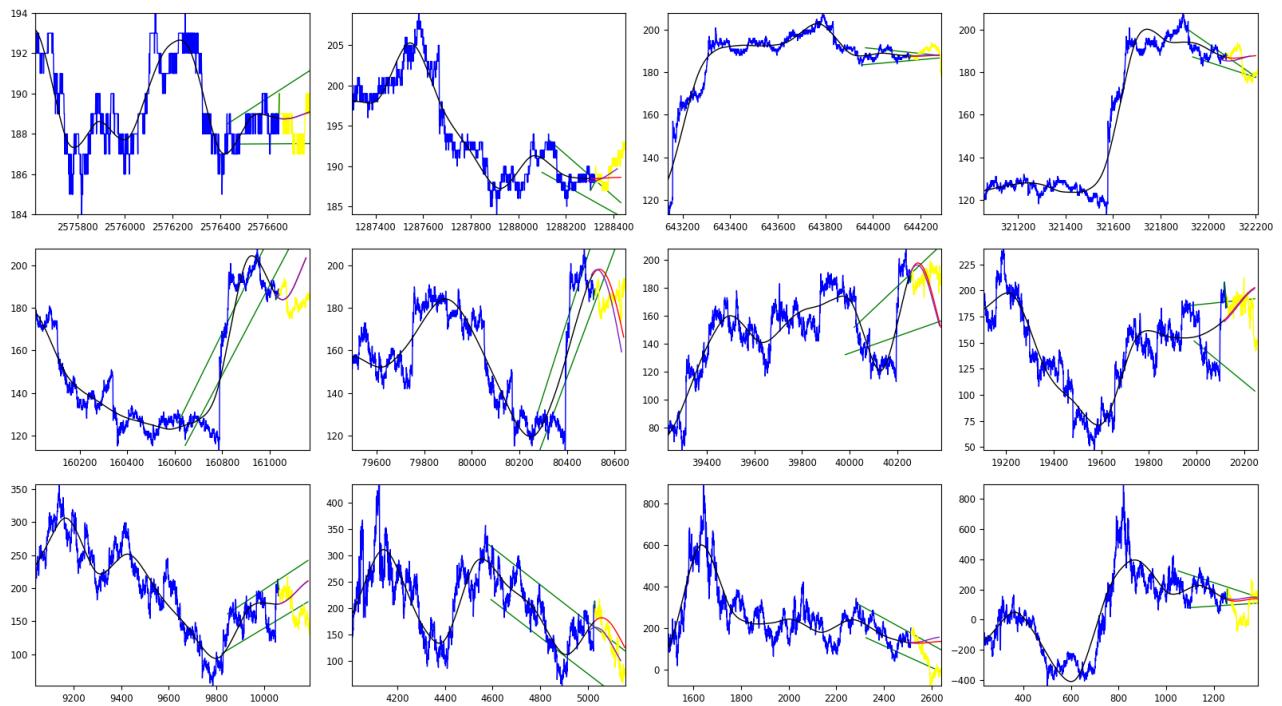


2576649: ptype: 5[0] 1[1,2] 5[3] 7[4] 6[5,6] 2[7,8] 6[9] 5[10] 1[11]

dir: -1[0] 0[1,2] -1[3,4] 1[5,6,7,8,9] -1[10] 0[11]

otp: 0[0] 1[1,2,3] -1[4] 0[5,6] 1[7] 0[8] 1[9,10] 0[11]

cshape: 3[0,1,2,3] 1[4,5] 3[6,7] 1[8,9,10] 3[11]



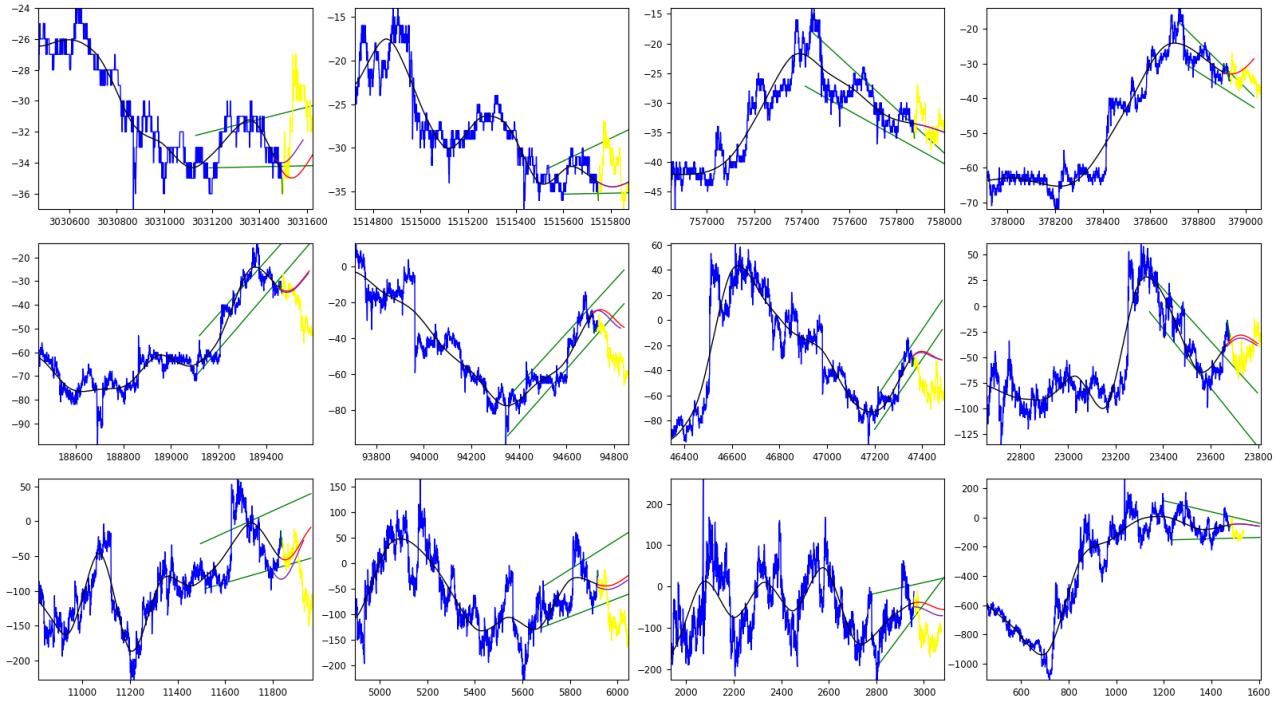
## 2.5 CF 3031496 3031550

3031496: ptype: 7[0] 5[1] 3[2] 5[3] 7[4] 6[5] 4[6] 6[7] 7[8] 5[9] 4[10,11]

dir: -1[0,1,2,3,4] 1[5,6,7] -1[8,9] 1[10,11]

otp: -1[0,1] 0[2,3] -1[4] 0[5,6] 1[7] 0[8,9,10,11]

cshape: 1[0] 3[1,2,3] 1[4,5,6,7] 5[8] 3[9,10,11]

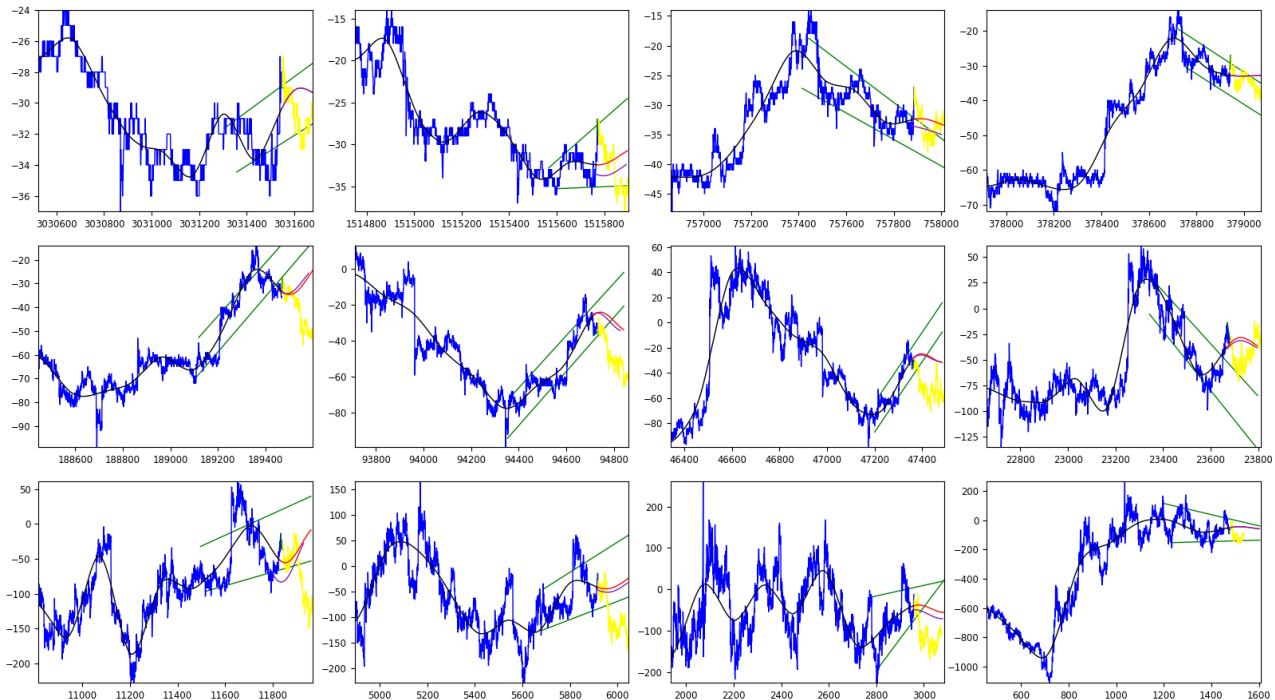


3031550: ptype: 4[0] 2[1] 4[2] 3[3] 7[4] 6[5] 4[6] 6[7] 7[8] 5[9] 4[10,11]

dir: 1[0,1,2] -1[3,4] 1[5,6,7] -1[8,9] 1[10,11]

otp: 0[0,1] 1[2,3] -1[4] 0[5,6] 1[7] 0[8,9,10,11]

cshape: 1[0] 3[1] 5[2] 1[3,4,5,6,7] 5[8] 3[9,10,11]



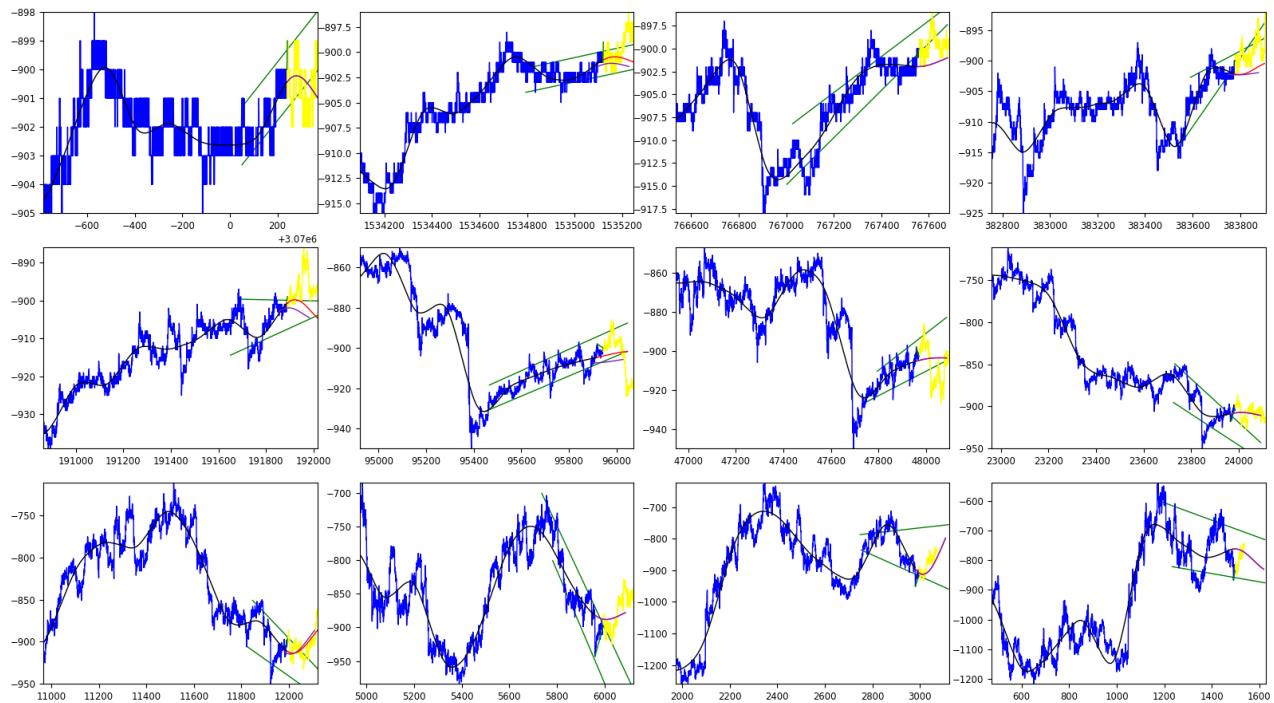
## 2.6 bu 3070242 3070350

3070242: ptype: 6[0] 4[1] 2[2] 5[3] 6[4] 2[5,6] 4[7] 7[8] 5[9] 7[10] 3[11]

dir: 1[0,1,2] -1[3] 1[4,5,6,7] -1[8,9,10,11]

otp: 1[0,1] 0[2,3] 1[4] 0[5,6] 1[7] 0[8,9,10] -1[11]

cshape: 1[0,1,2] 2[3] 3[4] 1[5] 5[6,7,8] 1[9] 3[10,11]

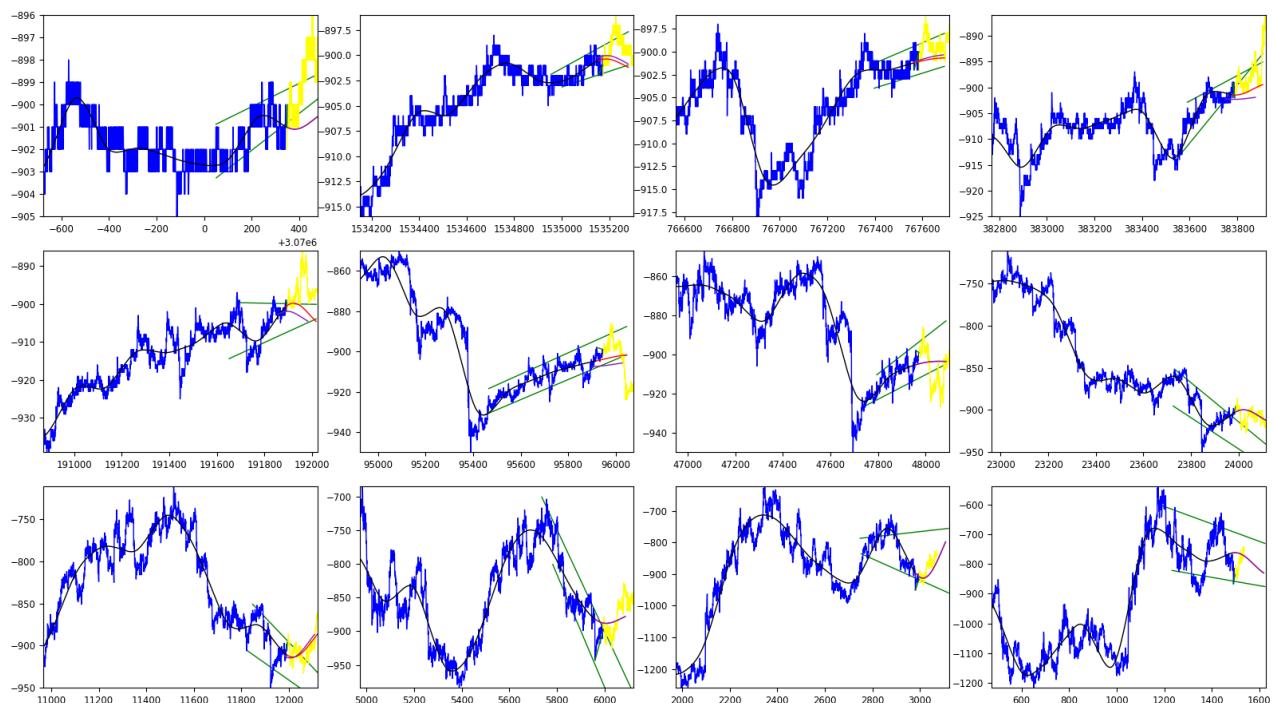


3070350: ptype: 7[0] 4[1] 2[2,3] 6[4] 2[5,6] 4[7] 7[8] 5[9] 7[10] 3[11]

dir: -1[0] 1[1,2,3,4,5,6,7] -1[8,9,10,11]

otp: 0[0,1,2,3,4,5,6] 1[7] 0[8,9,10] -1[11]

cshape: 1[0] 3[1] 5[2] 2[3] 3[4] 1[5] 5[6,7,8] 1[9] 3[10,11]



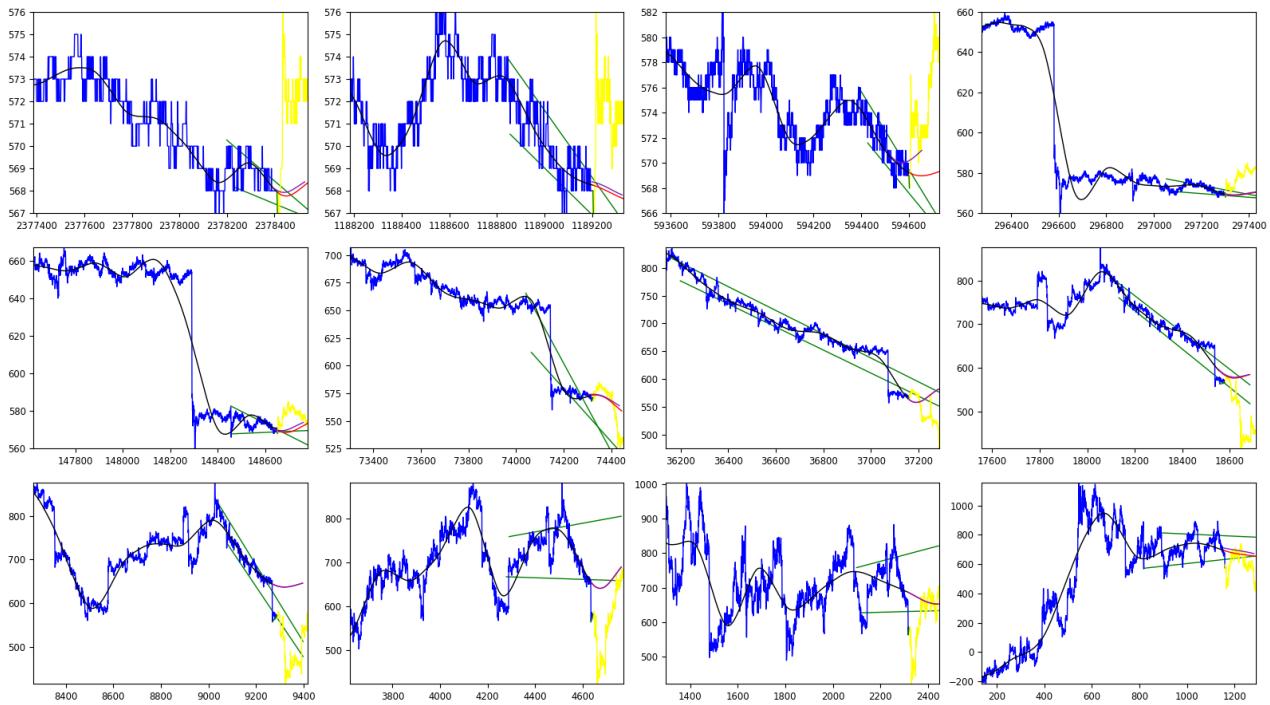
## 2.7 ag 2378412 2378450

2378412: ptype: 7[0] 3[1] 5[2,3,4] 4[5] 7[6] 5[7,8] 7[9] 3[10,11]

dir: -1[0,1,2,3,4] 1[5] -1[6,7,8,9,10,11]

otp: -1[0] 0[1] -1[2,3,4] 1[5] -1[6] 0[7,8] -1[9,10,11]

cshape: 1[0] 5[1] 1[2] 2[3] 3[4] 5[5] 1[6,7,8] 3[9,10,11]

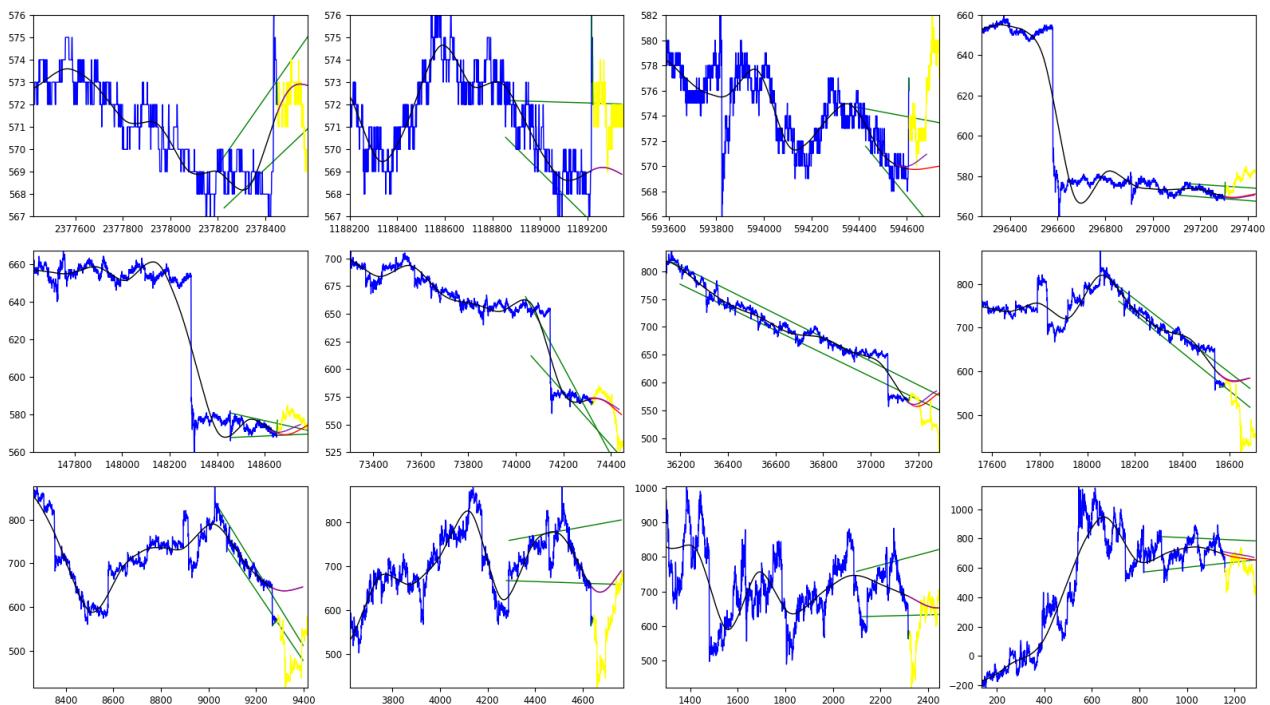


2378450: ptype: 4[0,1] 5[2,3,4] 4[5] 7[6] 5[7,8] 7[9] 3[10,11]

dir: 1[0,1] -1[2,3,4] 1[5] -1[6,7,8,9,10,11]

otp: 0[0,1,2,3,4] 1[5] -1[6] 0[7,8] -1[9,10,11]

cshape: 1[0] 3[1,2] 1[3] 3[4] 5[5] 1[6,7,8] 3[9,10,11]



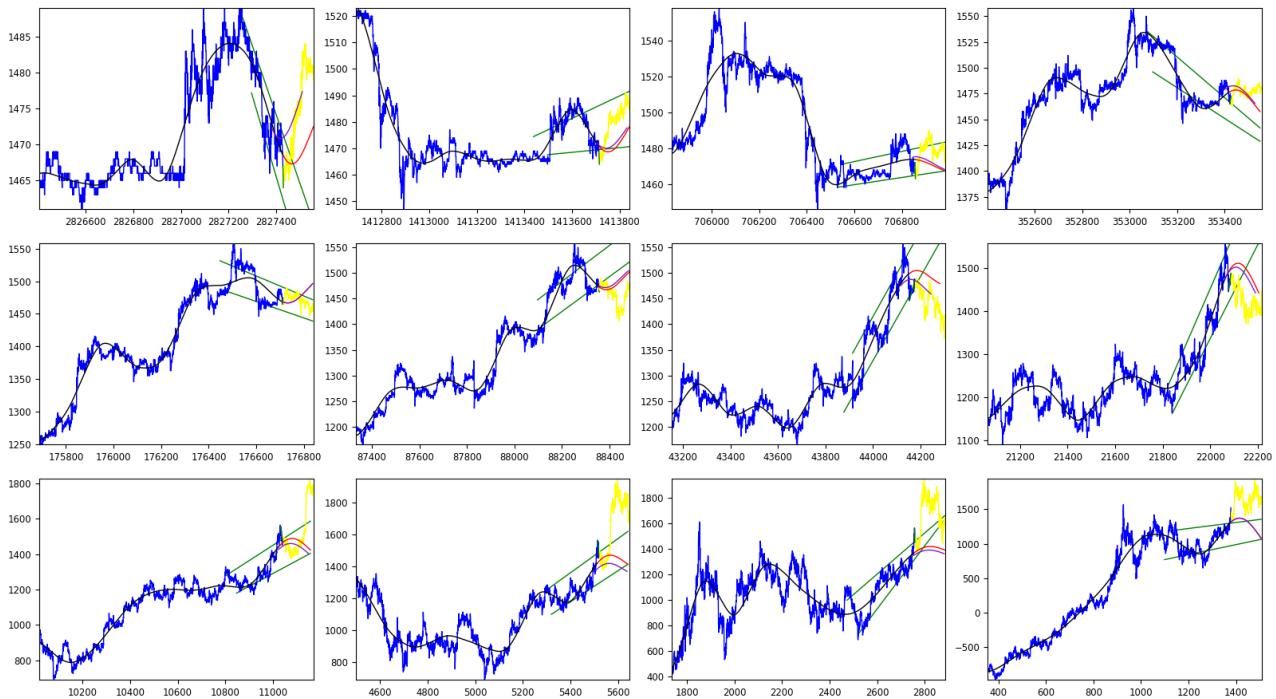
## 2.8 zn 2827431 2827490

2827431: ptype: 7[0,1] 3[2] 4[3] 5[4] 7[5] 6[6,7,8,9] 4[10] 6[11]

dir: -1[0,1,2] 1[3] -1[4,5] 1[6,7,8,9,10,11]

otp: 0[0] -1[1,2] 0[3,4] -1[5,6] 0[7,8,9] 1[10,11]

cshape: 1[0] 3[1] 5[2,3] 1[4,5,6,7,8,9] 5[10] 3[11]

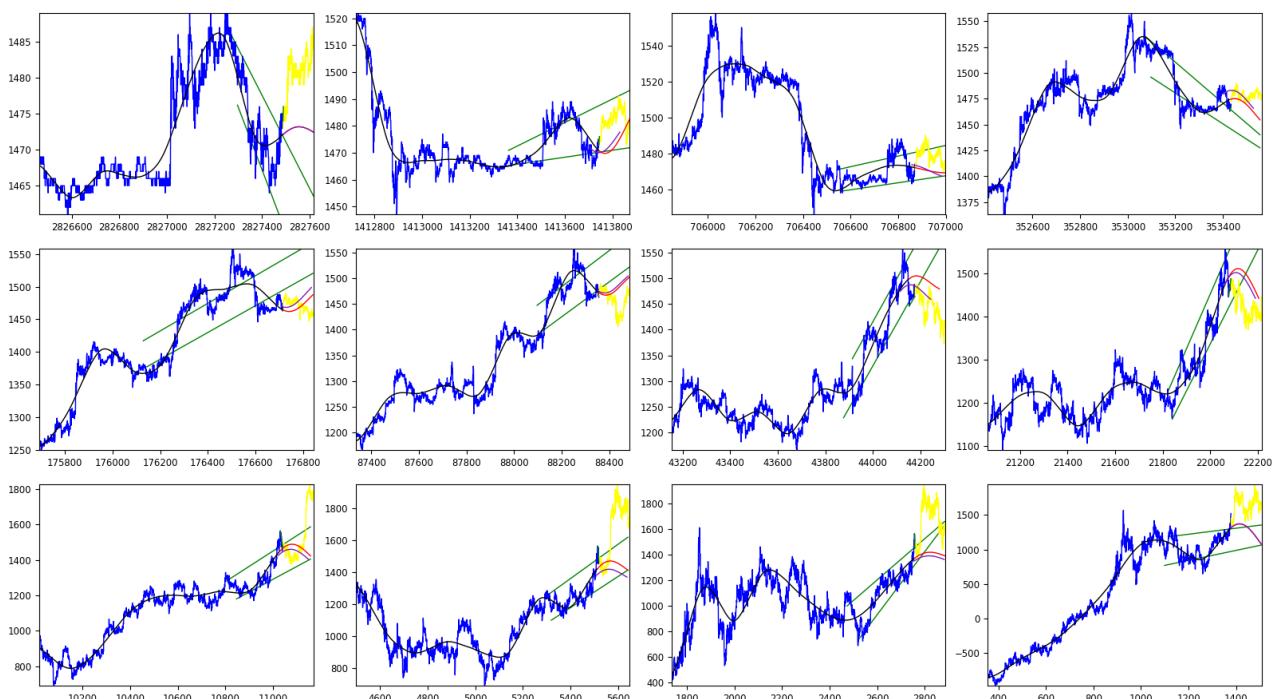


2827490: ptype: 4[0] 7[1] 3[2] 4[3] 5[4] 7[5] 6[6,7,8,9] 4[10] 6[11]

dir: 1[0] -1[1,2] 1[3] -1[4,5] 1[6,7,8,9,10,11]

otp: 1[0] 0[1,2] 1[3] -1[4,5,6] 0[7,8,9] 1[10,11]

cshape: 1[0,1] 5[2,3] 1[4,5,6,7,8,9] 5[10] 3[11]



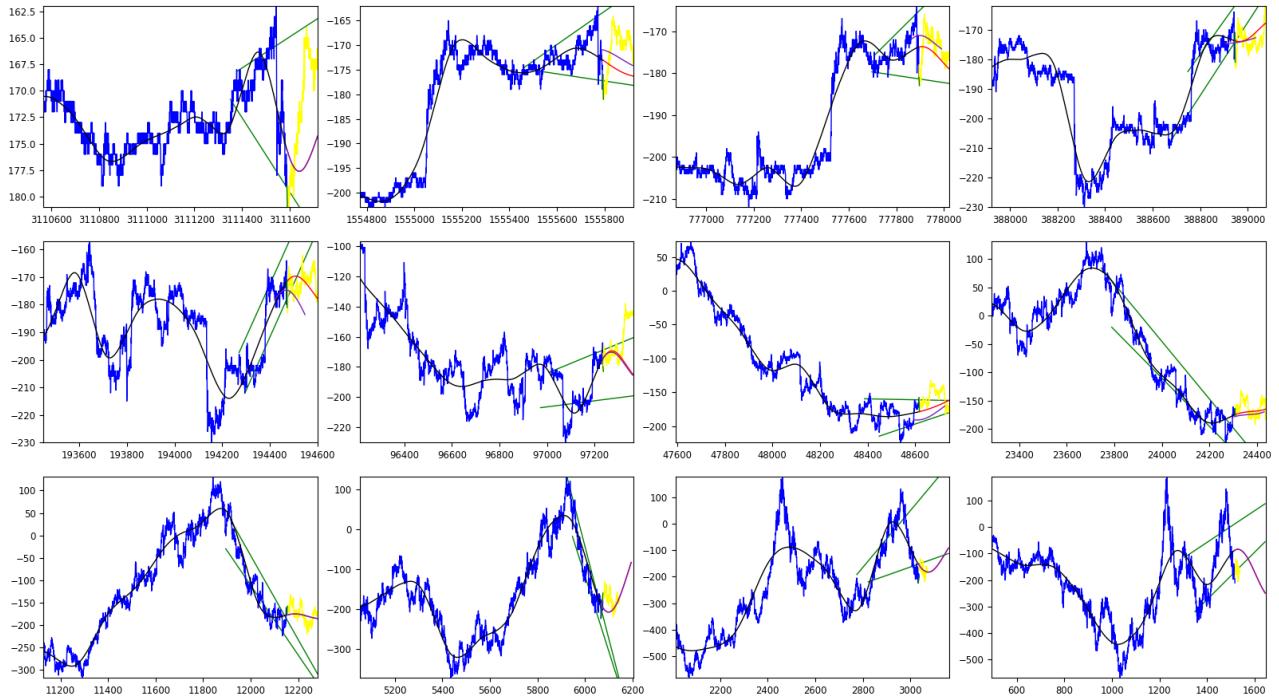
## 2.9 v9 3111591 3111672

3111591: ptype: 7[0] 3[1,2] 5[3] 6[4,5] 2[6,7] 4[8] 7[9,10] 3[11]

dir: -1[0,1,2,3] 1[4,5,6,7,8] -1[9,10,11]

otp: -1[0,1] 0[2] -1[3,4] 0[5,6] 1[7,8,9] -1[10,11]

cshape: 3[0,1,2] 1[3,4] 3[5,6] 1[7,8,9] 3[10] 5[11]

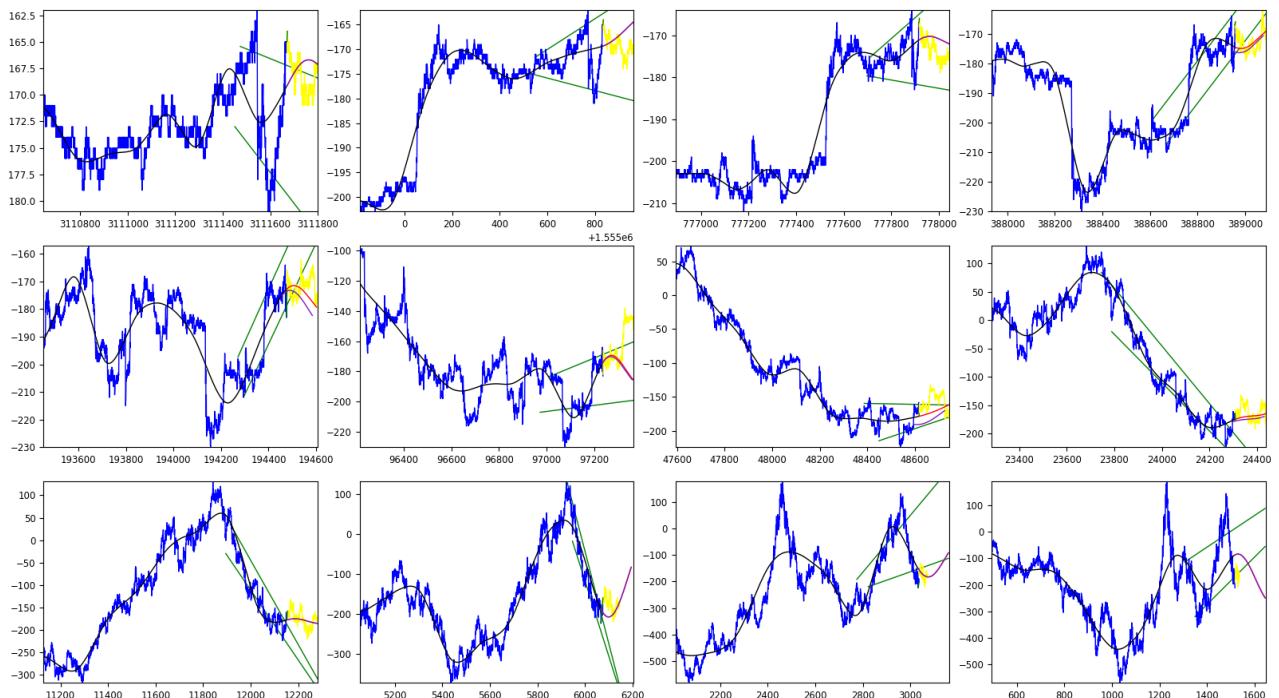


3111672: ptype: 6[0] 2[1] 4[2] 5[3] 6[4,5] 2[6,7] 4[8] 7[9,10] 3[11]

dir: 1[0,1,2] -1[3] 1[4,5,6,7,8] -1[9,10,11]

otp: 1[0] 0[1] 1[2] 0[3,4] 1[5] 0[6] 1[7,8,9] -1[10] 0[11]

cshape: 3[0,1,2] 1[3,4] 3[5,6] 1[7,8,9] 3[10] 5[11]



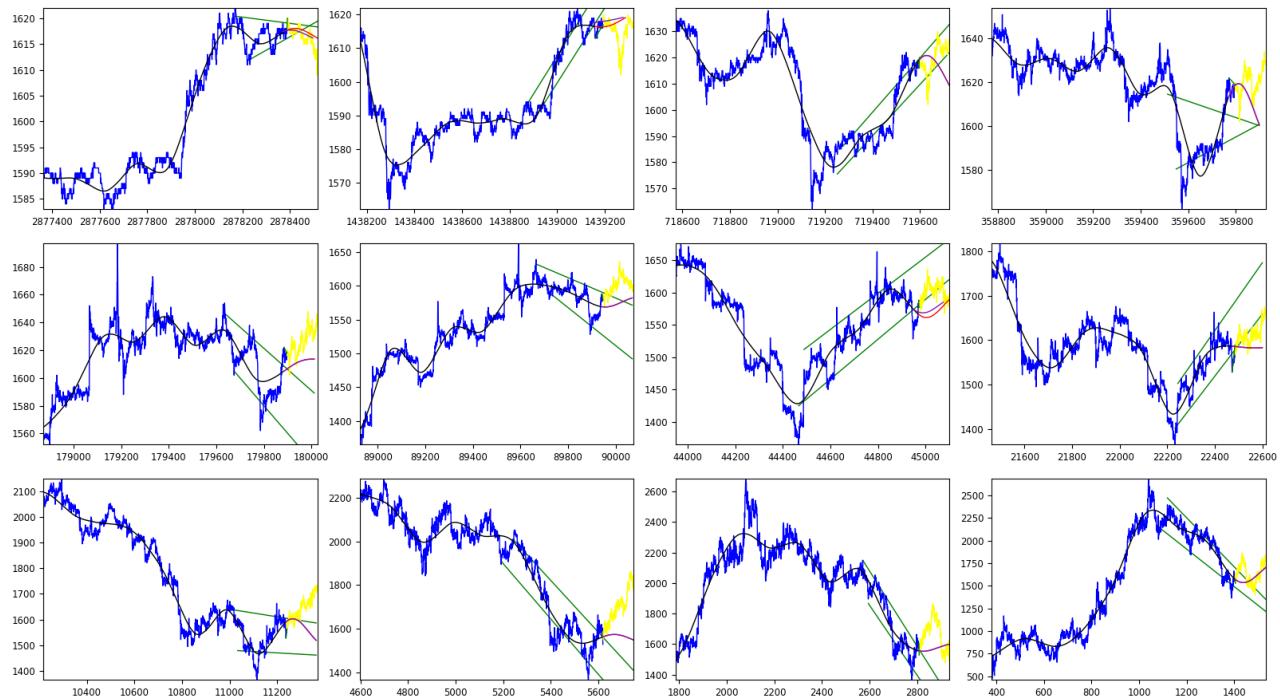
## 2.10 SR 2878389 2878498

2878389: ptype: 4[0] 5[1] 6[2,3] 2[4,5] 7[6] 3[7] 6[8] 4[9] 5[10] 7[11]

dir: 1[0] -1[1] 1[2,3,4,5] -1[6,7] 1[8,9] -1[10,11]

otp: 1[0] -1[1] 1[2,3,4,5] 0[6,7] 1[8,9,10] 0[11]

cshape: 3[0] 1[1,2] 3[3] 5[4] 3[5] 1[6,7] 3[8] 1[9,10] 5[11]

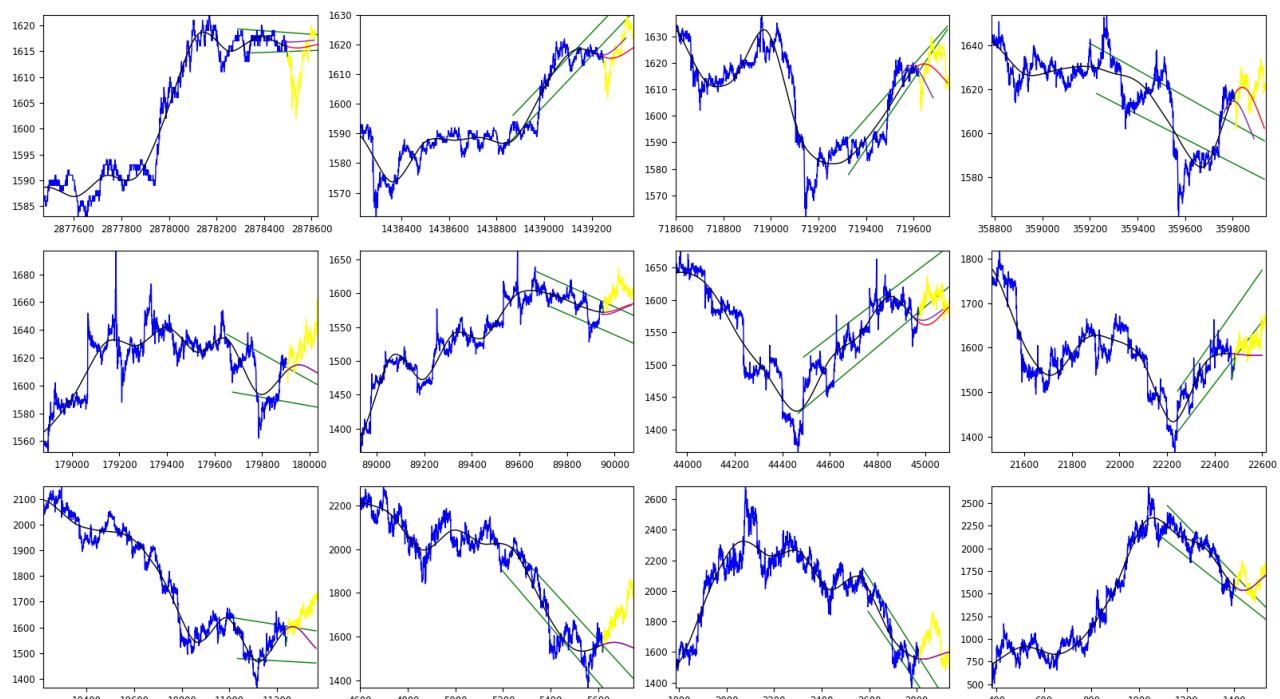


2878498: ptype: 5[0,1] 6[2,3,4] 2[5] 7[6] 3[7] 6[8] 4[9] 5[10] 7[11]

dir: -1[0,1] 1[2,3,4,5] -1[6,7] 1[8,9] -1[10,11]

otp: -1[0,1,2] 1[3,4,5] 0[6,7] 1[8,9,10] 0[11]

cshape: 3[0] 1[1,2,3] 3[4] 1[5,6,7] 3[8] 1[9,10] 5[11]



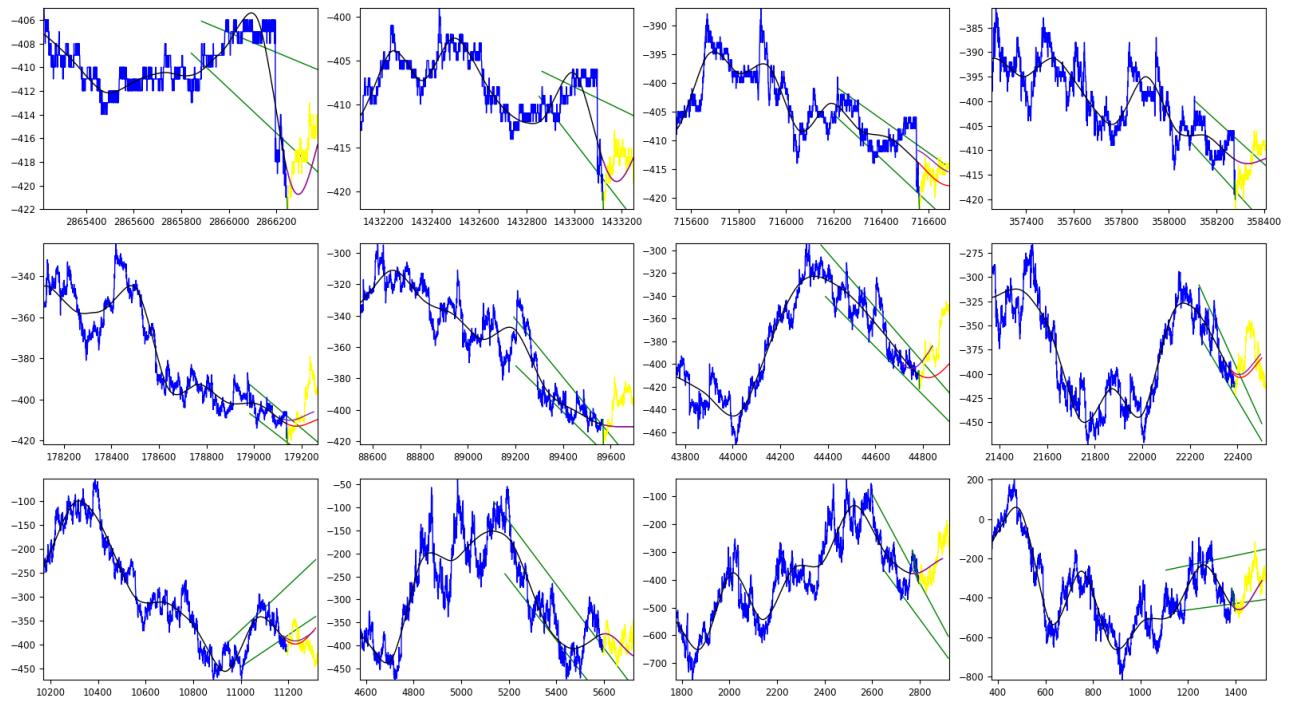
## 2.11 19 2866246 2866337

2866246: ptype: 7[0,1] 3[2] 5[3,4] 3[5] 7[6,7,8] 3[9] 2[10] 7[11]

dir: -1[0,1,2,3,4,5,6,7,8,9] 1[10] -1[11]

otp: -1[0,1,2,3,4] 0[5,6,7] -1[8] 0[9,10,11]

cshape: 3[0,1] 5[2] 1[3,4,5,6,7] 5[8] 1[9,10] 3[11]

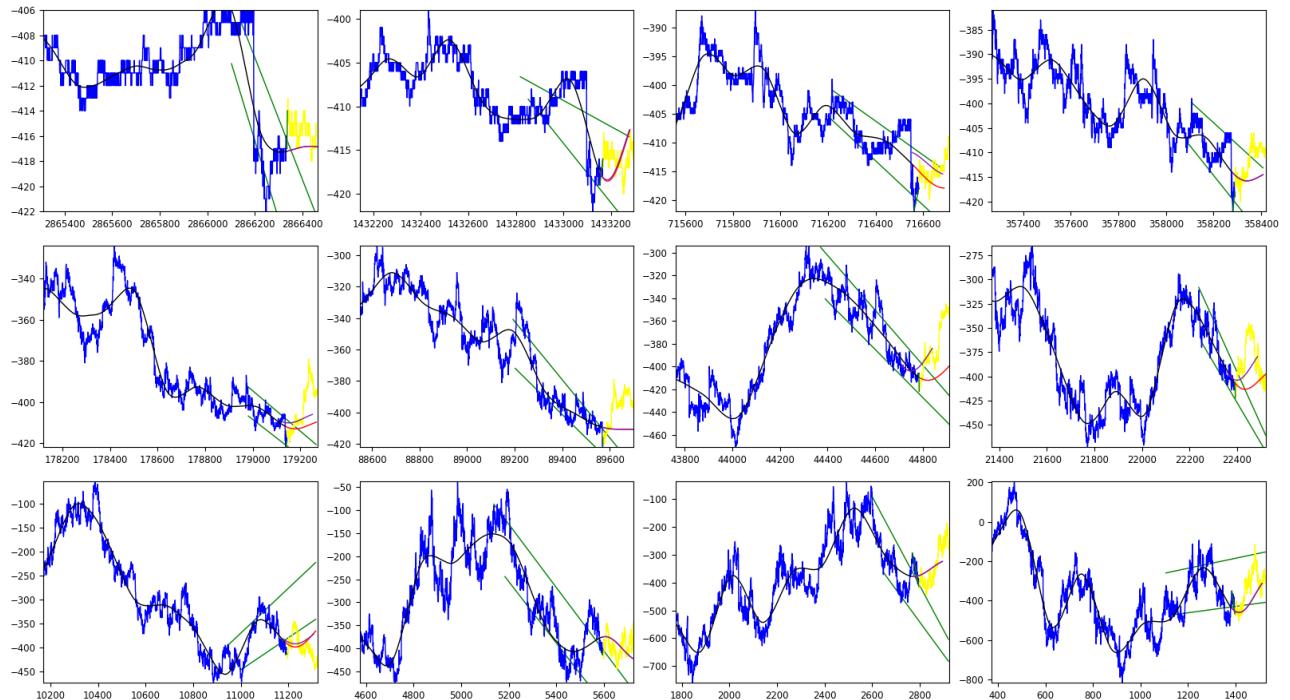


2866337: ptype: 4[0] 7[1] 3[2] 5[3,4] 3[5] 7[6,7,8] 3[9] 2[10] 7[11]

dir: 1[0] -1[1,2,3,4,5,6,7,8,9] 1[10] -1[11]

otp: 1[0] 0[1,2,3,4,5,6,7] -1[8] 0[9,10,11]

cshape: 1[0] 3[1] 5[2,3] 1[4,5,6,7] 5[8] 1[9,10] 3[11]



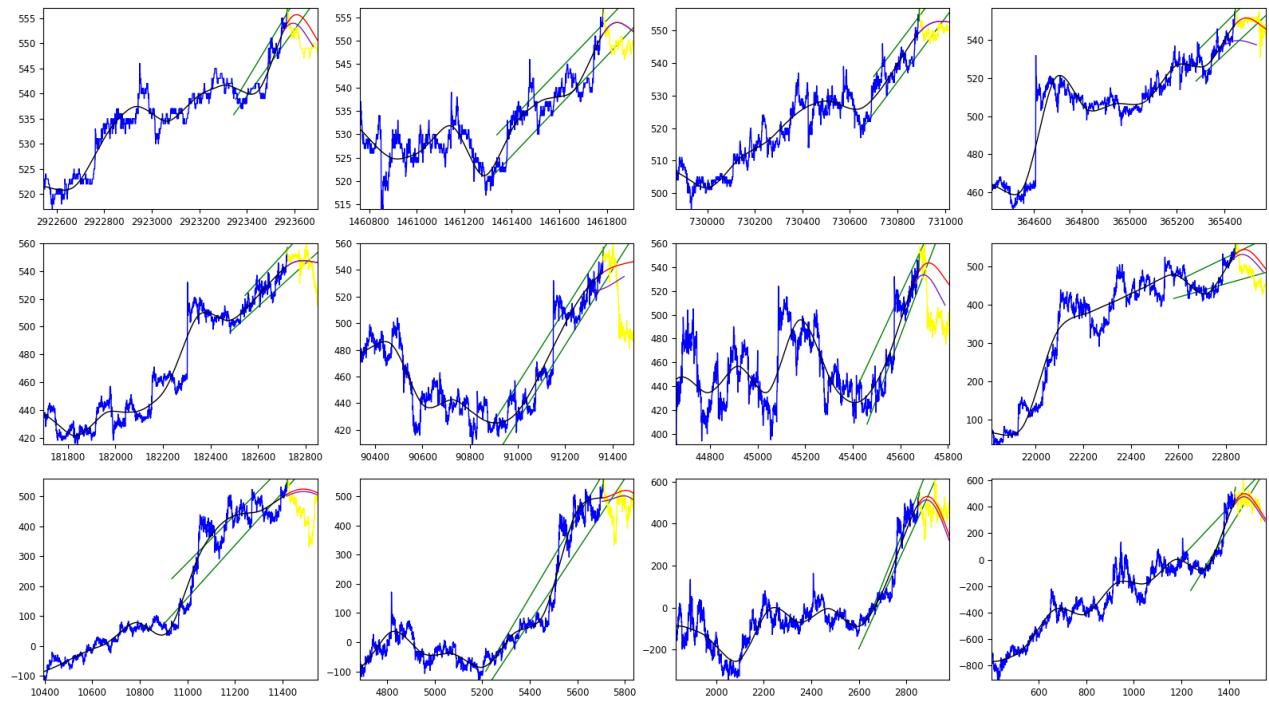
## 2.12 al 2923570 2923640

2923570: ptype: 6[0,1] 4[2] 6[3] 4[4] 2[5] 6[6,7] 4[8,9] 6[10,11]

dir: 1[0,1,2,3,4,5,6,7,8,9,10,11]

otp: 1[0,1,2,3,4,5,6,7] 0[8,9,10] 1[11]

cshape: 1[0,1,2,3,4,5,6] 2[7] 1[8,9,10] 5[11]

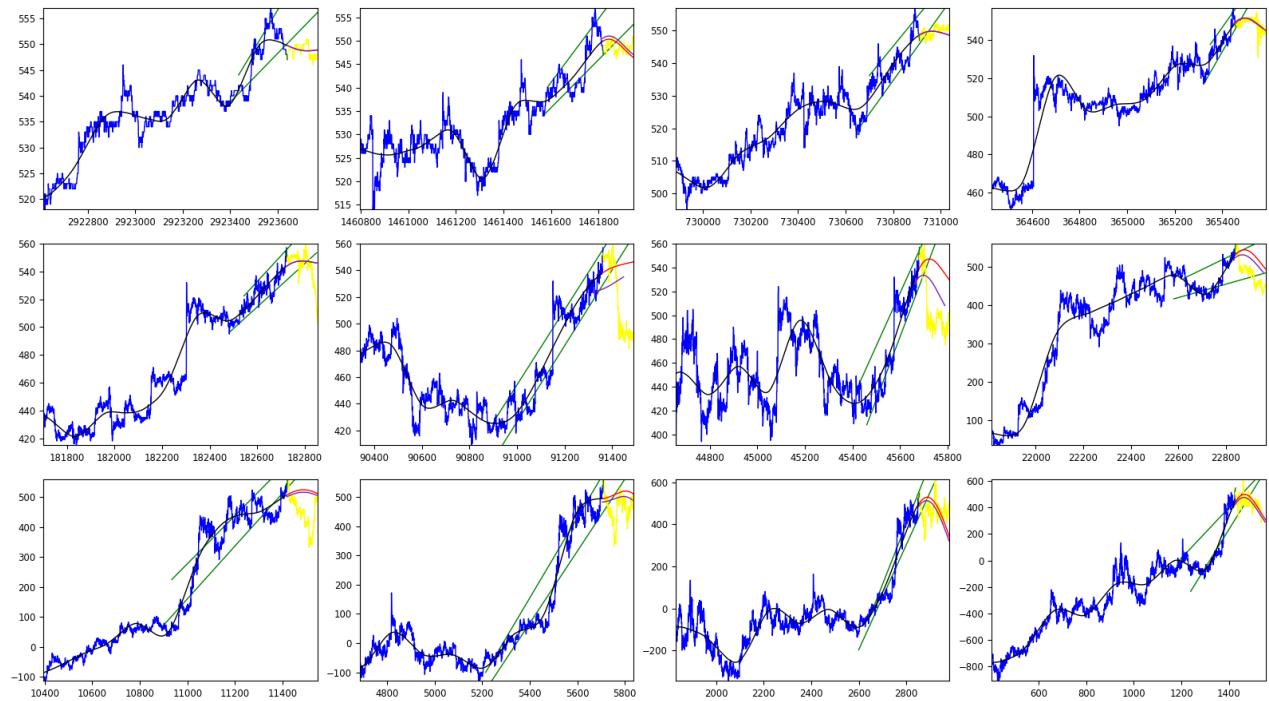


2923640: ptype: 5[0] 6[1] 4[2] 6[3] 4[4] 2[5] 6[6,7] 4[8,9] 6[10,11]

dir: -1[0] 1[1,2,3,4,5,6,7,8,9,10,11]

otp: -1[0,1] 0[2,3,4,5,6] 1[7] 0[8,9,10] 1[11]

cshape: 5[0] 1[1,2,3,4,5,6] 2[7] 1[8,9,10] 5[11]



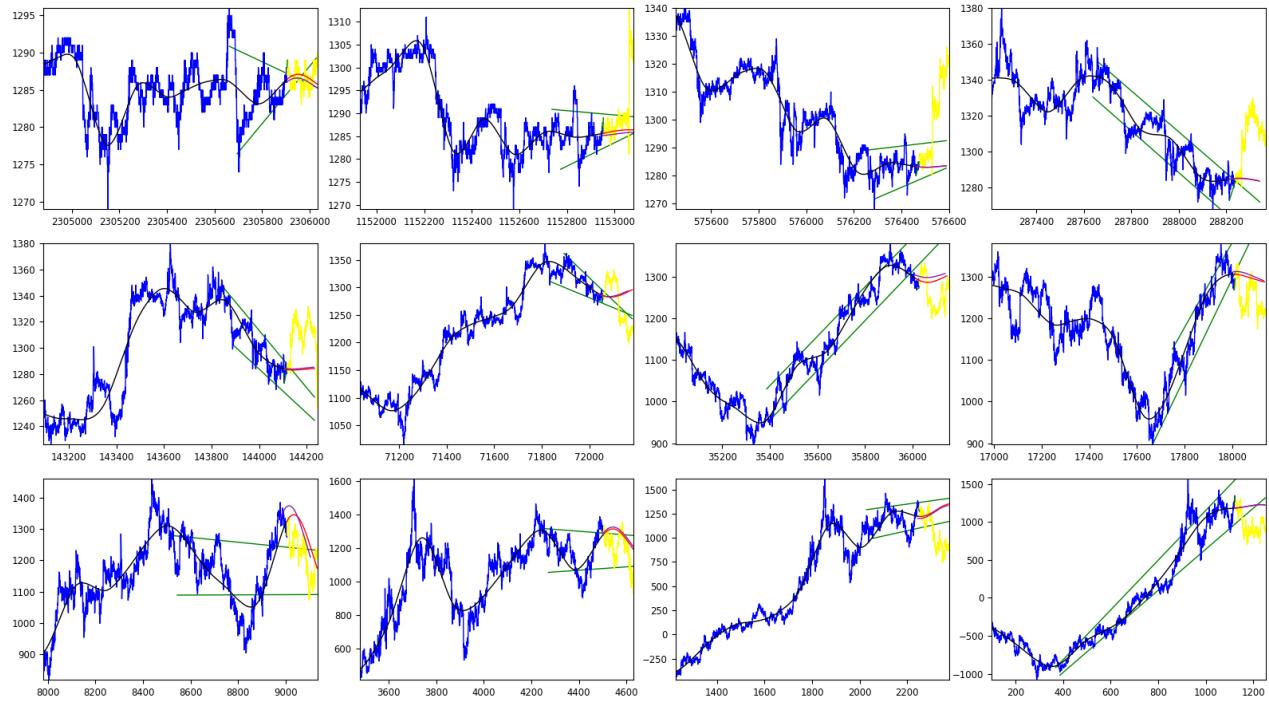
## 2.13 zn 2305906 2306002

2305906: ptype: 6[0] 2[1] 5[2] 4[3] 5[4,5,6] 3[7] 6[8,9] 2[10] 4[11]

dir: 1[0,1] -1[2] 1[3] -1[4,5,6,7] 1[8,9,10,11]

otp: 1[0] 0[1,2] 1[3,4] 0[5] -1[6,7] 1[8,9] 0[10,11]

cshape: 3[0,1,2] 1[3,4] 3[5] 1[6,7] 3[8] 2[9,10] 1[11]

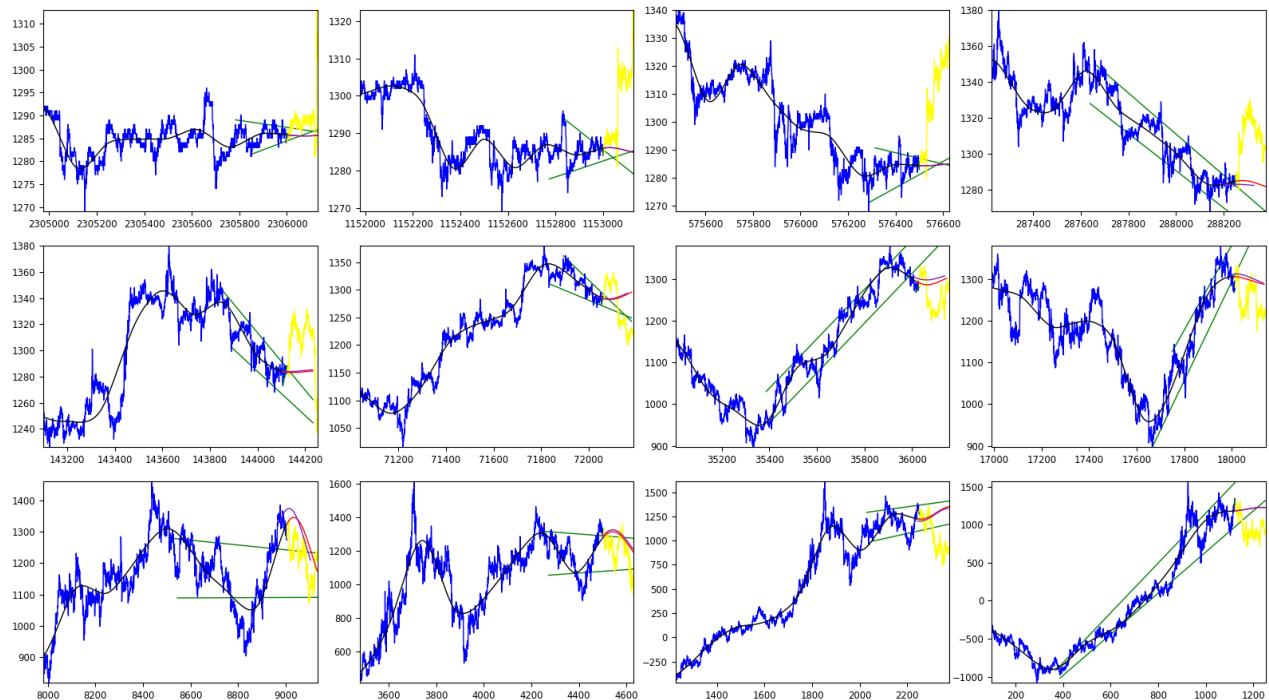


2306002: ptype: 5[0] 4[1] 2[2] 4[3] 5[4,5,6] 3[7] 6[8,9] 2[10] 4[11]

dir: -1[0] 1[1,2,3] -1[4,5,6,7] 1[8,9,10,11]

otp: 0[0] 1[1] 0[2] 1[3,4] 0[5] -1[6,7] 1[8] 0[9,10,11]

cshape: 3[0] 2[1] 3[2] 1[3,4] 3[5] 1[6,7] 3[8] 2[9,10] 1[11]



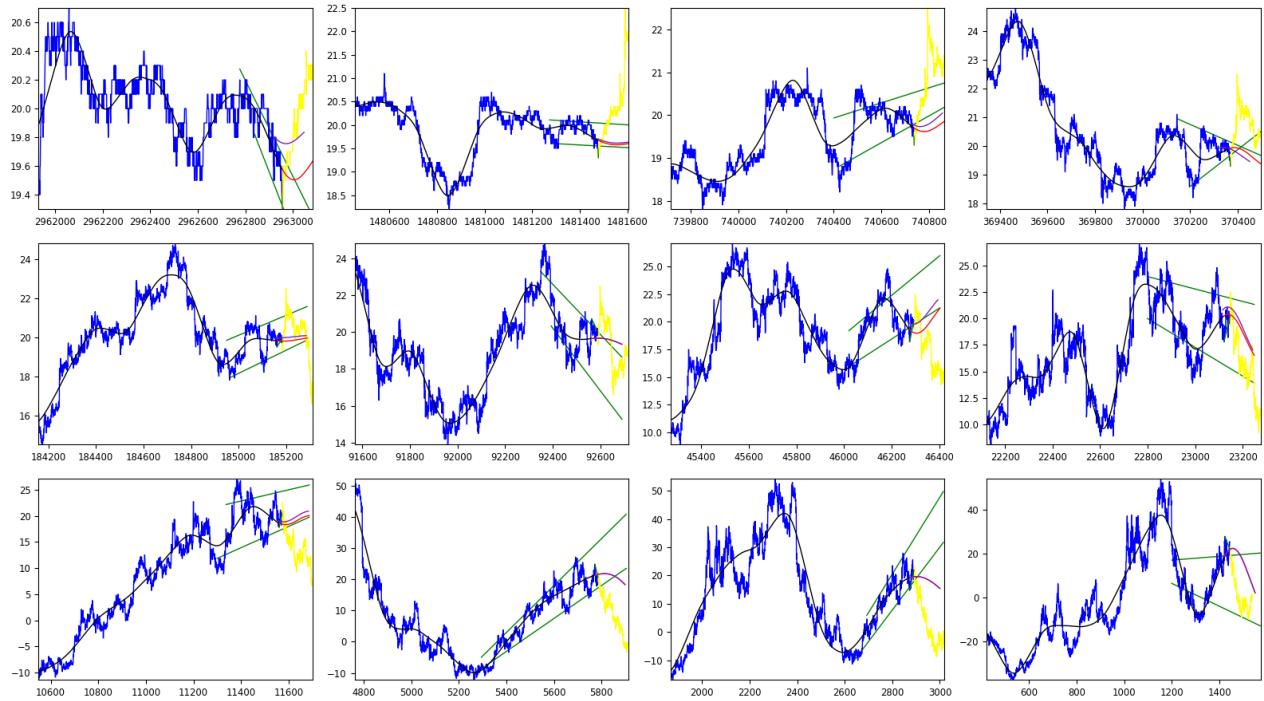
## 2.14 i9 2962956 2963027

2962956: ptype: 7[0] 5[1] 7[2] 4[3] 2[4] 3[5] 7[6] 6[7] 5[8] 4[9,10] 6[11]

dir: -1[0,1,2] 1[3,4] -1[5,6] 1[7] -1[8] 1[9,10,11]

otp: -1[0,1,2,3] 0[4,5] -1[6] 0[7,8,9,10] 1[11]

cshape: 1[0,1] 2[2] 3[3] 1[4,5,6] 3[7,8] 5[9] 1[10] 3[11]

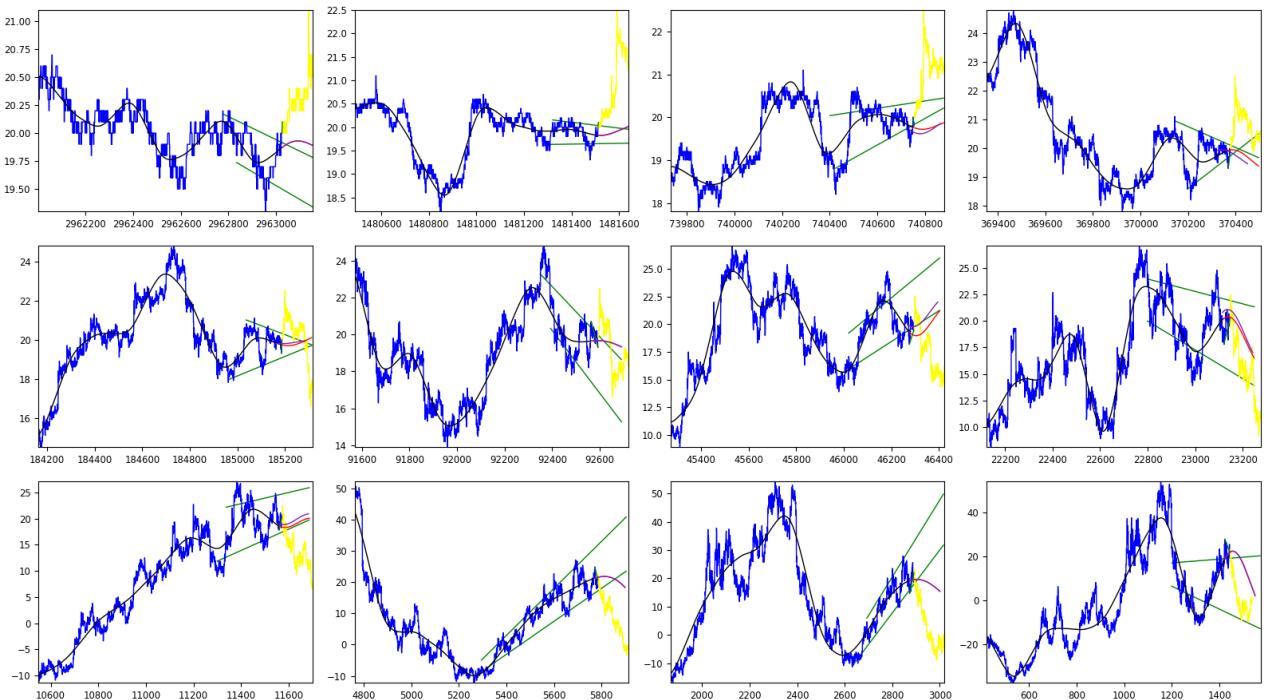


2963027: ptype: 4[0] 2[1] 5[2] 4[3] 5[4] 3[5] 7[6] 6[7] 5[8] 4[9,10] 6[11]

dir: 1[0,1] -1[2] 1[3] -1[4,5,6] 1[7] -1[8] 1[9,10,11]

otp: 1[0,1] 0[2,3,4] 1[5] 0[6,7,8,9,10] 1[11]

cshape: 1[0] 2[1,2] 3[3] 2[4] 1[5,6] 3[7,8] 5[9] 1[10] 3[11]



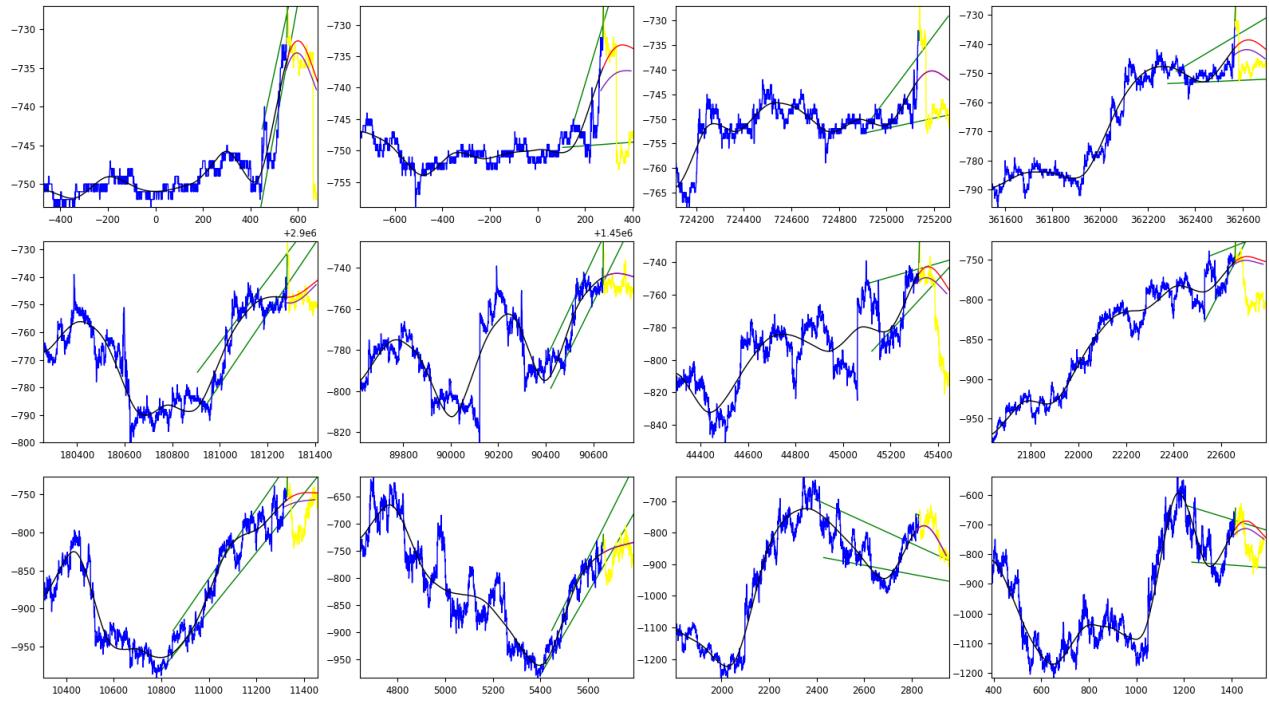
## 2.15 bu 2900555 2900664

2900555: ptype: 6[0] 4[1] 6[2,3] 2[4] 4[5] 6[6] 4[7] 2[8,9] 6[10,11]

dir: 1[0,1,2,3,4,5,6,7,8,9,10,11]

otp: 1[0,1,2,3,4] 0[5] 1[6,7] 0[8,9] 1[10] 0[11]

cshape: 1[0] 3[1,2,3] 1[4,5] 3[6,7] 1[8,9] 3[10,11]

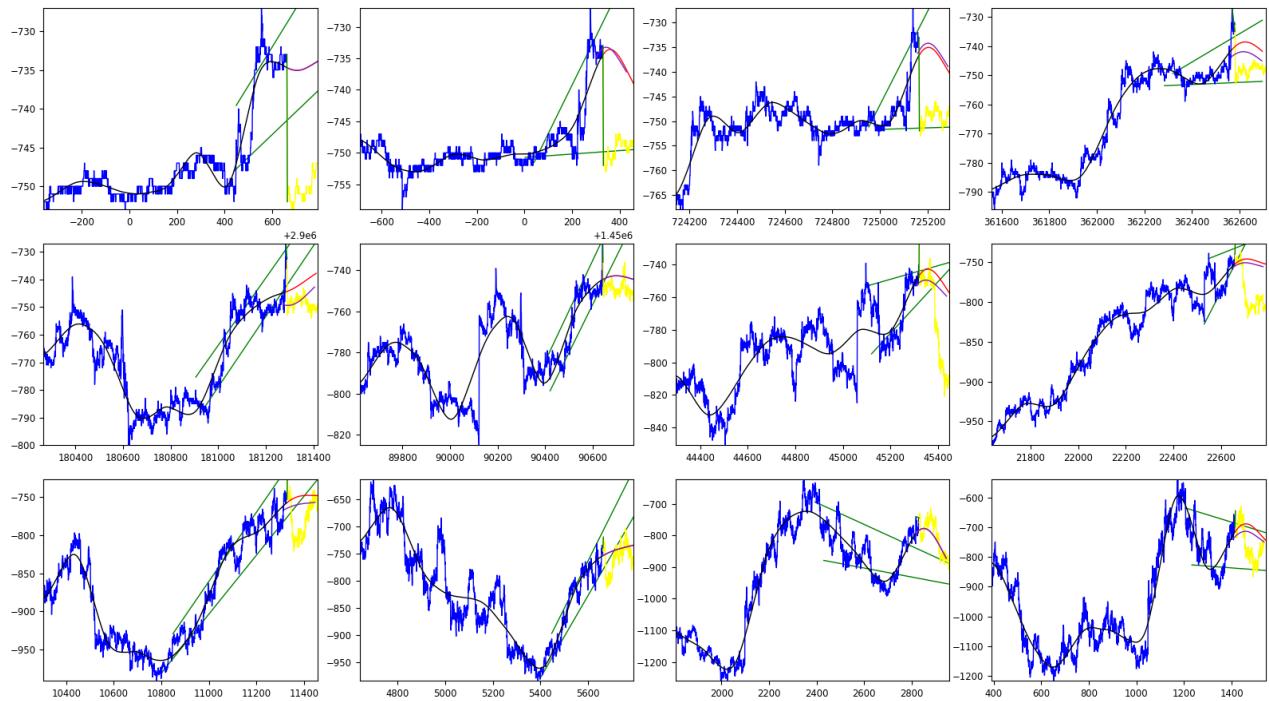


2900664: ptype: 5[0] 6[1,2,3] 2[4] 4[5] 6[6] 4[7] 2[8,9] 6[10,11]

dir: -1[0] 1[1,2,3,4,5,6,7,8,9,10,11]

otp: -1[0,1,2] 0[3] -1[4,5] 0[6] -1[7] 0[8,9] 1[10] 0[11]

cshape: 5[0] 3[1,2,3] 1[4,5] 3[6,7] 1[8,9] 3[10,11]



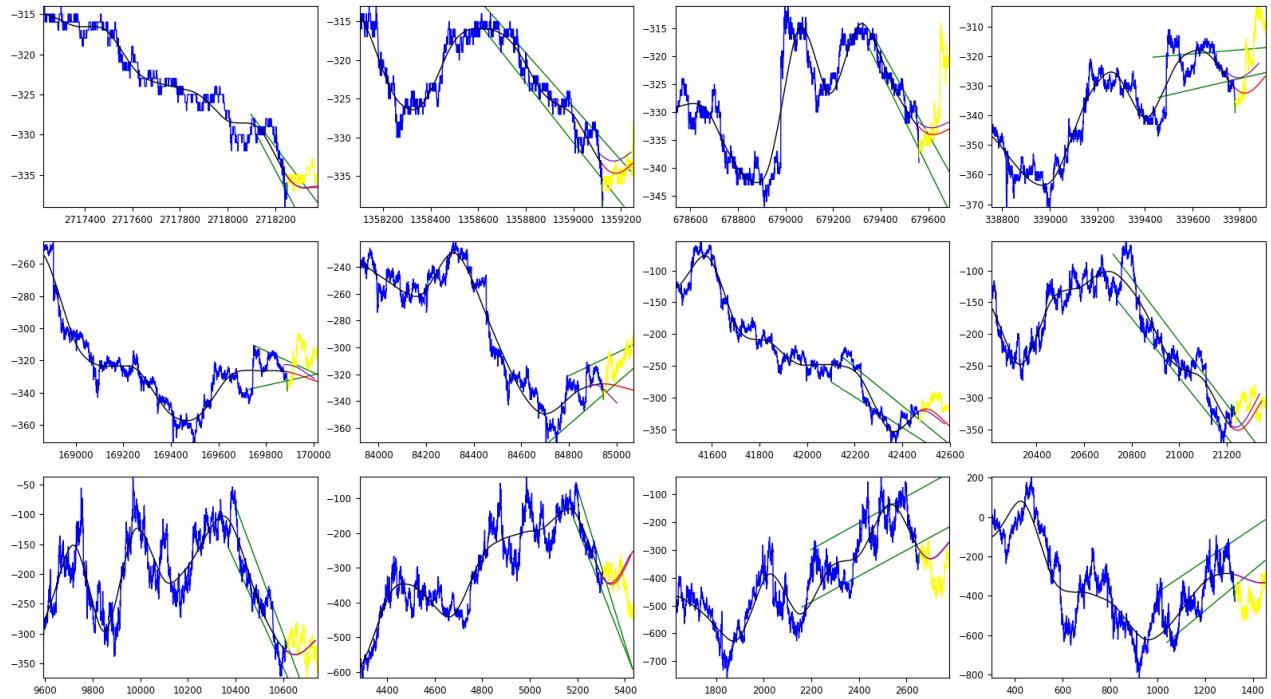
## 2.16 19 2718252 2718364

2718252: ptype: 5[0] 7[1] 5[2] 7[3] 3[4,5] 6[6] 7[7,8,9,10] 3[11]

dir: -1[0,1,2,3,4,5] 1[6] -1[7,8,9,10,11]

otp: 0[0] -1[1,2,3,4,5] 0[6,7,8,9] -1[10] 0[11]

cshape: 5[0] 1[1,2] 3[3,4] 2[5] 5[6] 1[7,8,9,10,11]

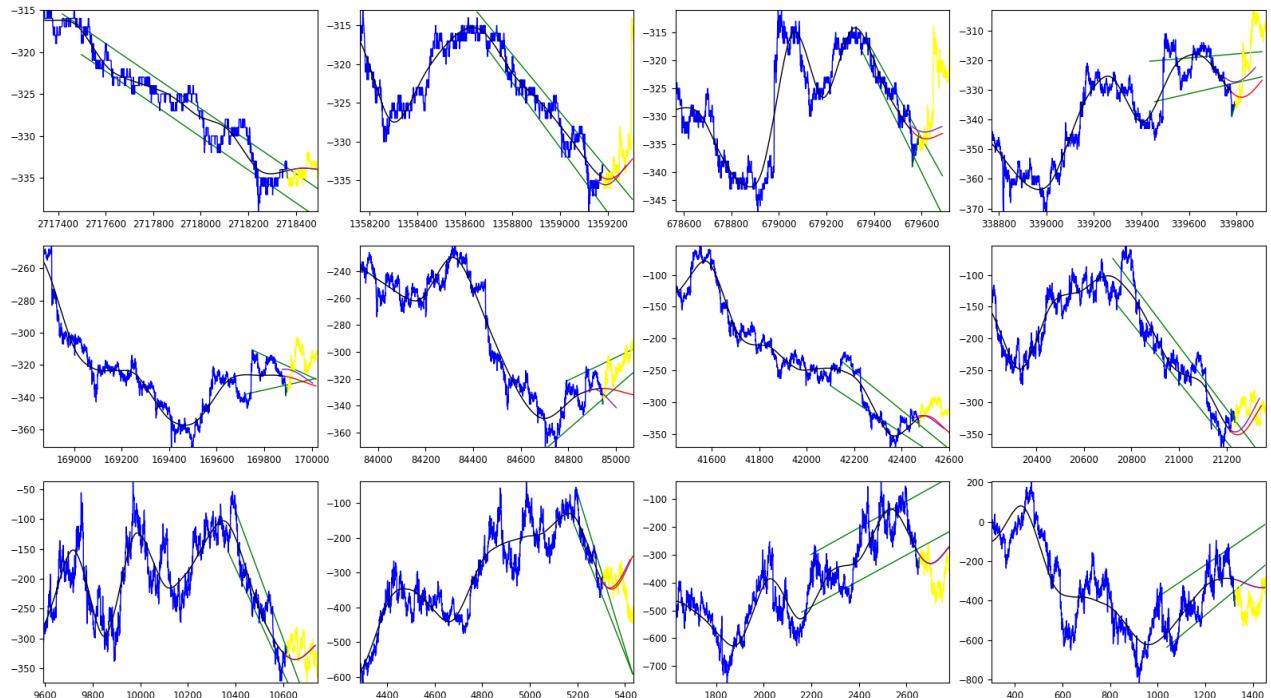


2718364: ptype: 4[0] 5[1,2] 7[3] 3[4,5] 6[6] 7[7,8,9,10] 3[11]

dir: 1[0] -1[1,2,3,4,5] 1[6] -1[7,8,9,10,11]

otp: 0[0,1,2] -1[3,4,5] 1[6] 0[7,8,9] -1[10] 0[11]

cshape: 1[0,1,2] 3[3,4] 2[5] 1[6,7,8,9,10,11]



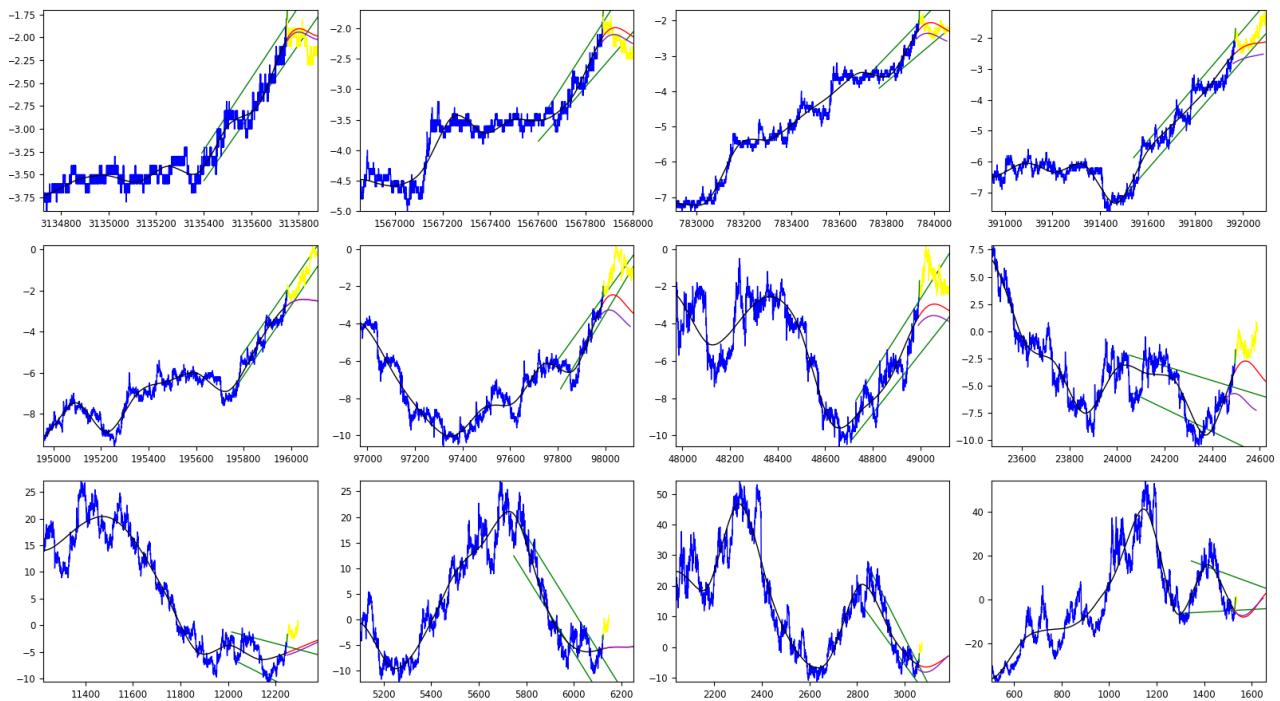
## 2.17 i9 3135752 3135837

3135752: ptype: 4[0] 6[1,2] 2[3] 4[4] 6[5,6,7] 2[8,9] 5[10] 7[11]

dir: 1[0,1,2,3,4,5,6,7,8,9] -1[10,11]

otp: 1[0,1,2,3,4,5,6,7,8,9,10] 0[11]

cshape: 1[0,1,2,3,4,5,6] 3[7,8] 1[9,10] 3[11]

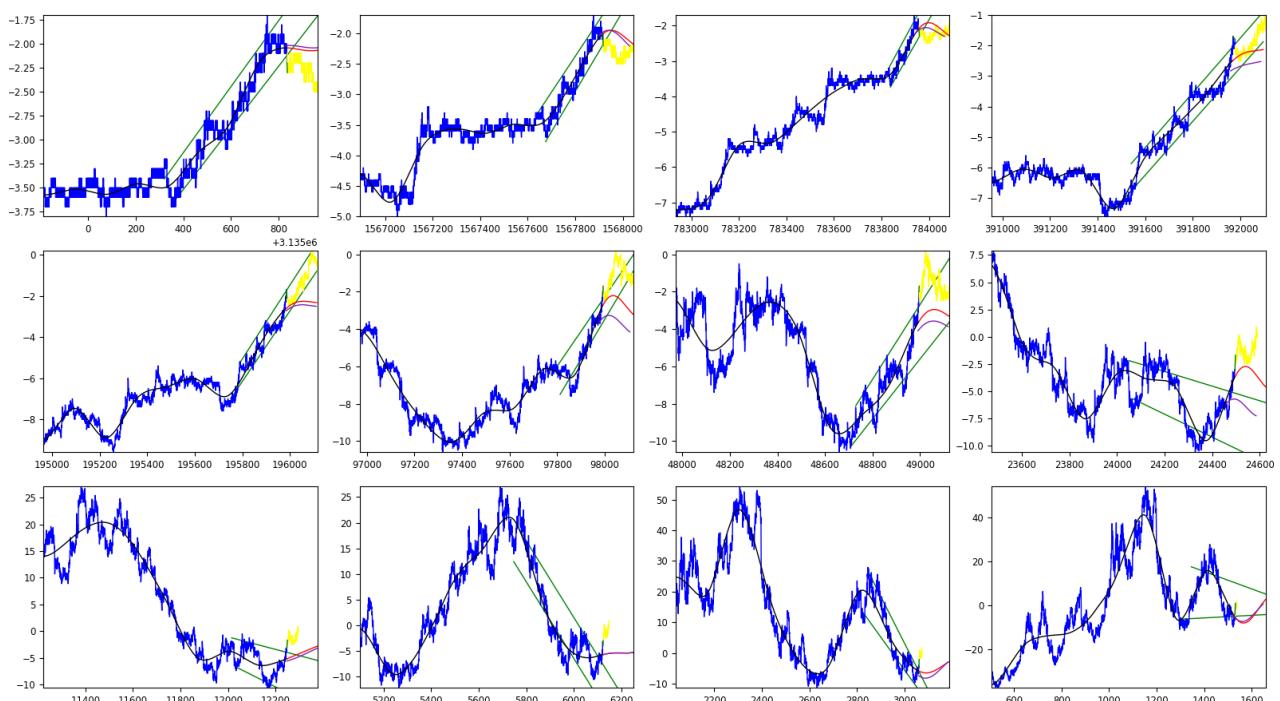


3135837: ptype: 5[0] 6[1,2] 2[3] 4[4] 6[5,6,7] 2[8,9] 5[10] 7[11]

dir: -1[0] 1[1,2,3,4,5,6,7,8,9] -1[10,11]

otp: -1[0,1] 0[2,3,4] 1[5,6,7,8,9,10] 0[11]

cshape: 1[0,1,2,3,4,5,6] 3[7,8] 1[9,10] 3[11]



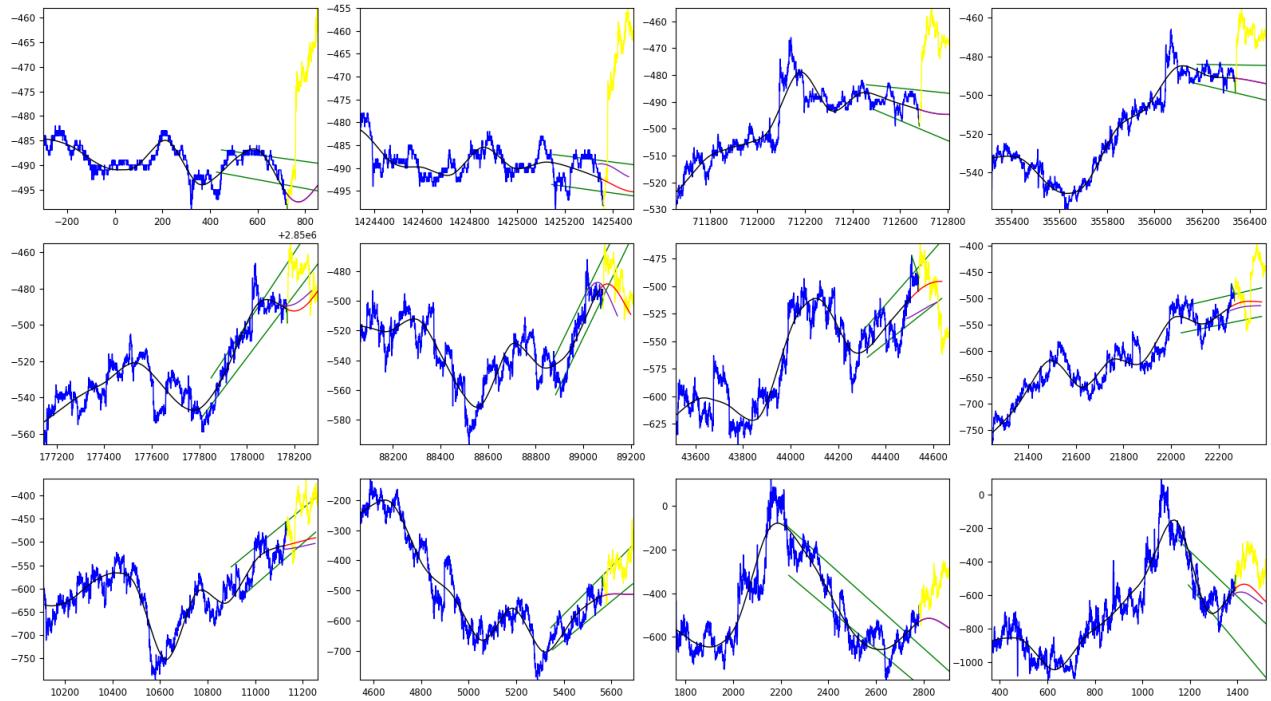
## 2.18 OI 2850725 2850762

2850725: ptype: 7[0] 3[1,2,3] 5[4] 6[5] 2[6] 4[7] 2[8,9] 6[10,11]

dir: -1[0,1,2,3,4] 1[5,6,7,8,9,10,11]

otp: -1[0,1] 0[2] -1[3,4,5] 0[6,7,8,9] 1[10,11]

cshape: 5[0] 1[1] 3[2,3] 1[4,5] 5[6] 1[7,8,9,10,11]

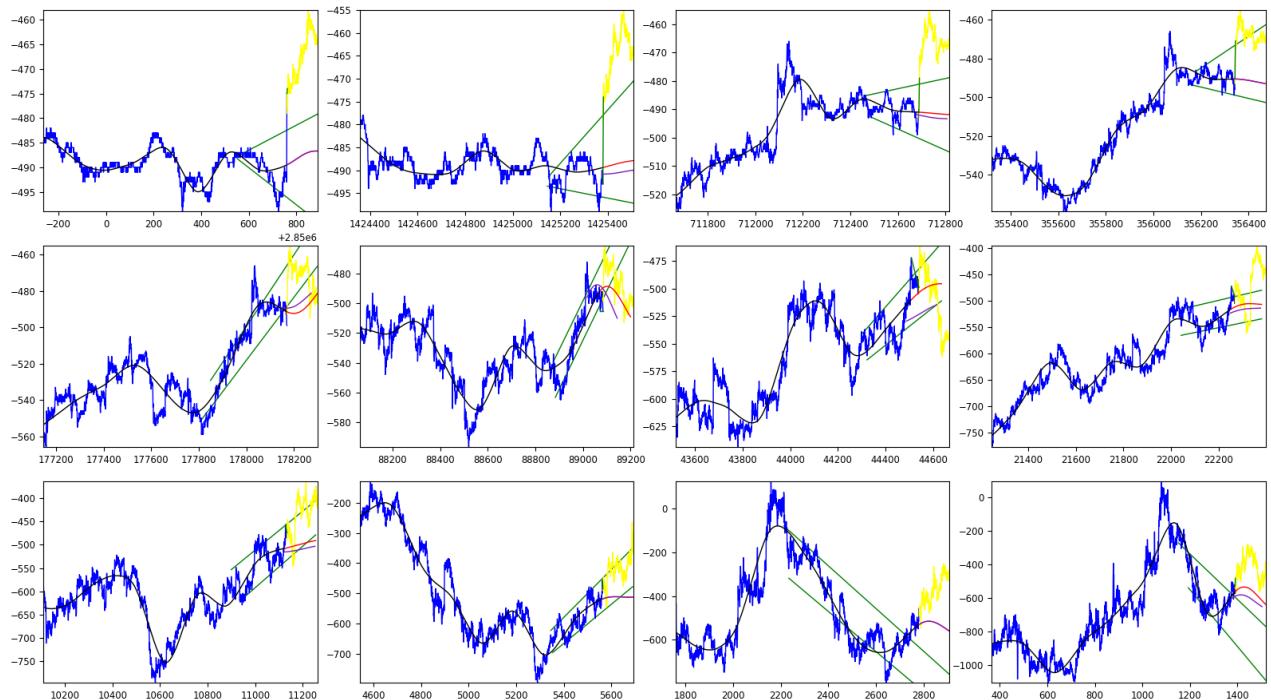


2850762: ptype: 4[0] 2[1] 3[2,3] 5[4] 6[5] 2[6] 4[7] 2[8,9] 6[10,11]

dir: 1[0,1] -1[2,3,4] 1[5,6,7,8,9,10,11]

otp: 1[0,1,2] 0[3,4,5] 1[6,7] 0[8,9] 1[10,11]

cshape: 3[0,1,2,3] 1[4,5] 5[6] 1[7,8,9,10,11]



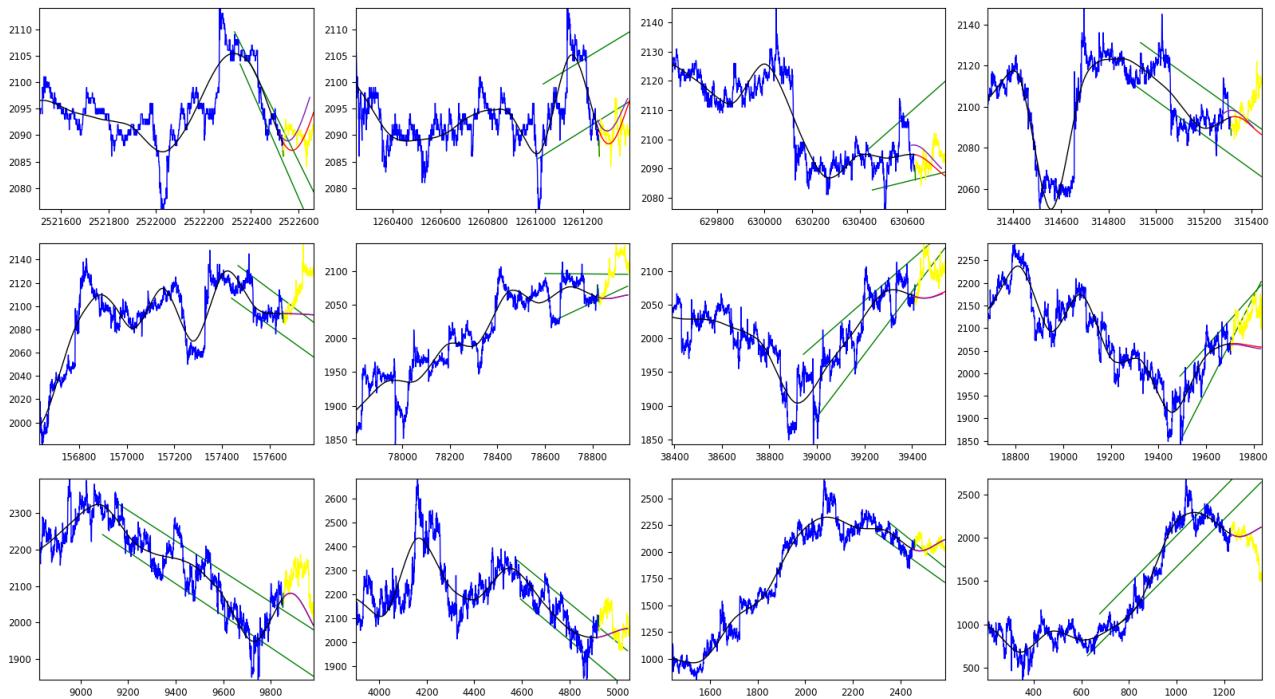
## 2.19 SR 2522536 2522607

2522536: ptype: 7[0,1] 3[2] 4[3] 1[4] 5[5,6] 3[7] 6[8] 2[9] 5[10,11]

dir: -1[0,1,2] 1[3] 0[4] -1[5,6,7] 1[8,9] -1[10,11]

otp: 0[0] -1[1,2] 0[3,4,5,6,7] 1[8,9,10] -1[11]

cshape: 1[0,1] 3[2] 1[3,4] 3[5] 5[6] 4[7] 1[8,9,10,11]

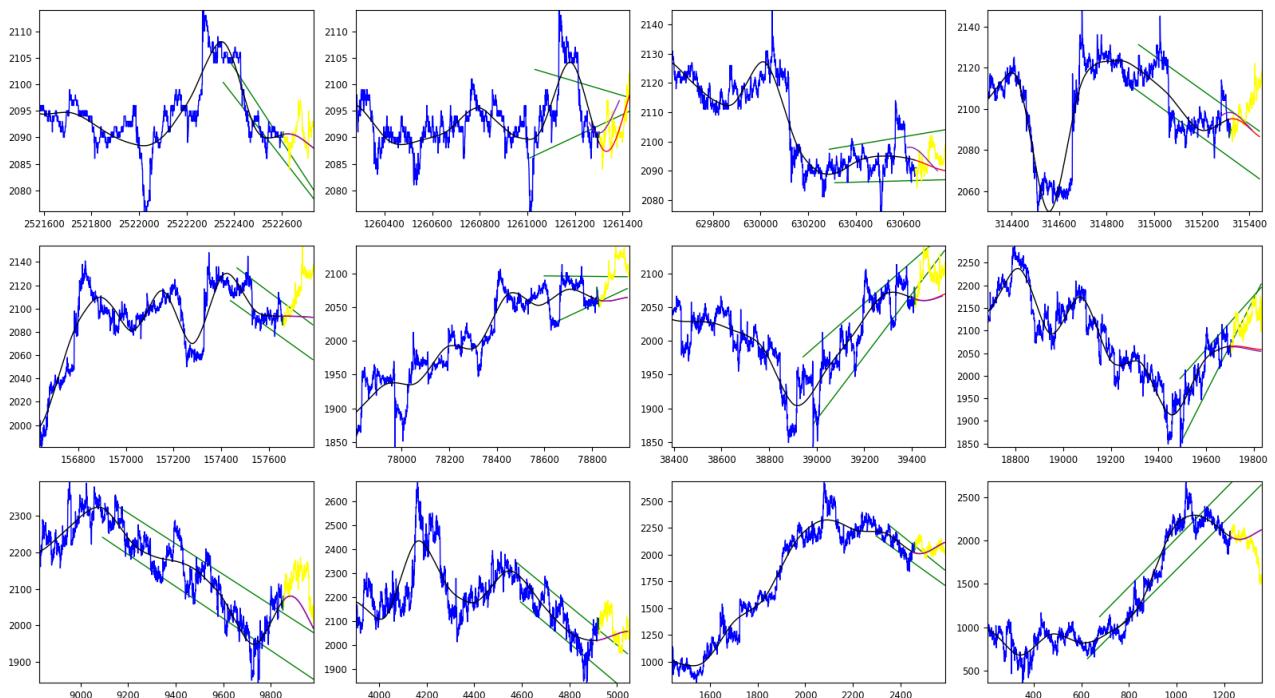


2522607: ptype: 4[0] 7[1] 3[2] 4[3] 1[4] 5[5,6] 3[7] 6[8] 2[9] 5[10,11]

dir: 1[0] -1[1,2] 1[3] 0[4] -1[5,6,7] 1[8,9] -1[10,11]

otp: 1[0] -1[1] 0[2,3,4,5,6,7] 1[8,9,10] -1[11]

cshape: 1[0] 3[1,2] 1[3,4] 3[5] 5[6] 4[7] 1[8,9,10,11]



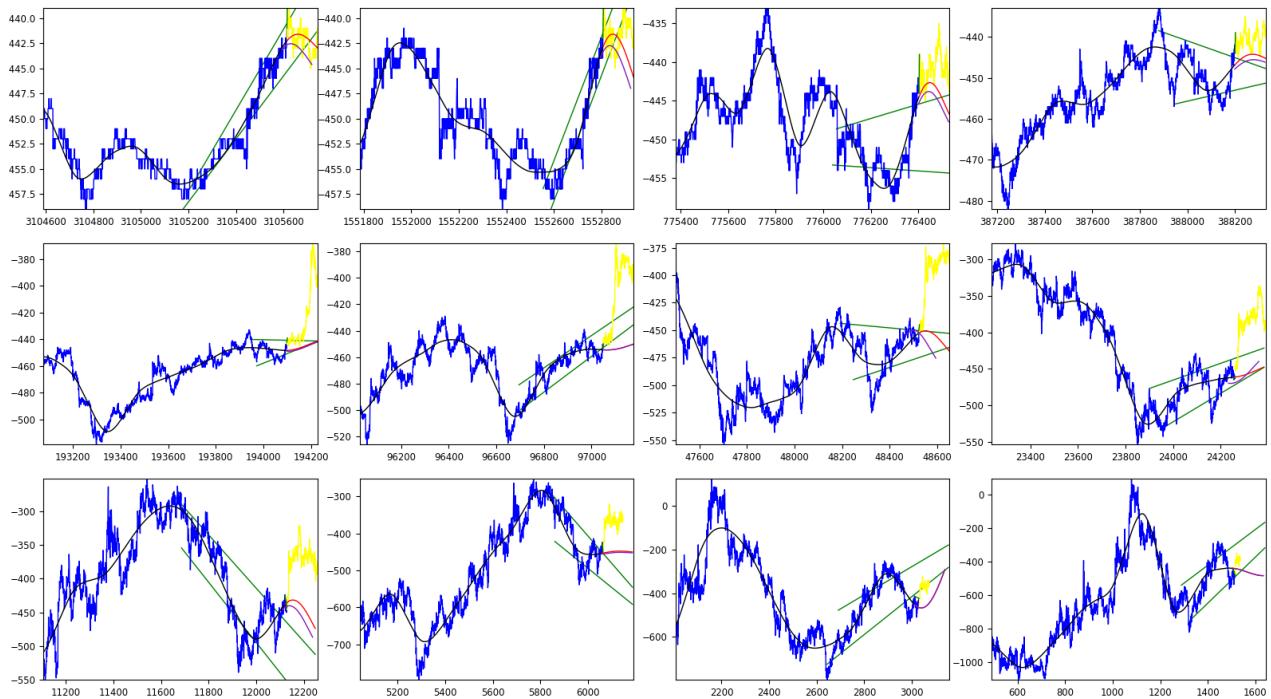
## 2.20 OI 3105616 3105707

3105616: ptype: 6[0,1,2] 4[3] 2[4,5] 6[6] 2[7] 6[8] 4[9] 7[10] 3[11]

dir: 1[0,1,2,3,4,5,6,7,8,9] -1[10,11]

otp: 1[0,1,2,3,4] 0[5] 1[6] 0[7] 1[8,9] -1[10] 0[11]

cshape: 1[0,1] 3[2,3] 2[4] 1[5] 3[6,7] 1[8] 4[9] 5[10] 1[11]



3105707: ptype: 5[0] 6[1,2] 4[3] 2[4,5] 6[6] 2[7] 6[8] 4[9] 7[10] 3[11]

dir: -1[0] 1[1,2,3,4,5,6,7,8,9] -1[10,11]

otp: -1[0,1] 1[2,3] 0[4,5] 1[6] 0[7] 1[8,9] -1[10] 0[11]

cshape: 1[0,1] 3[2,3] 2[4] 1[5] 3[6,7] 1[8] 4[9] 5[10] 1[11]

