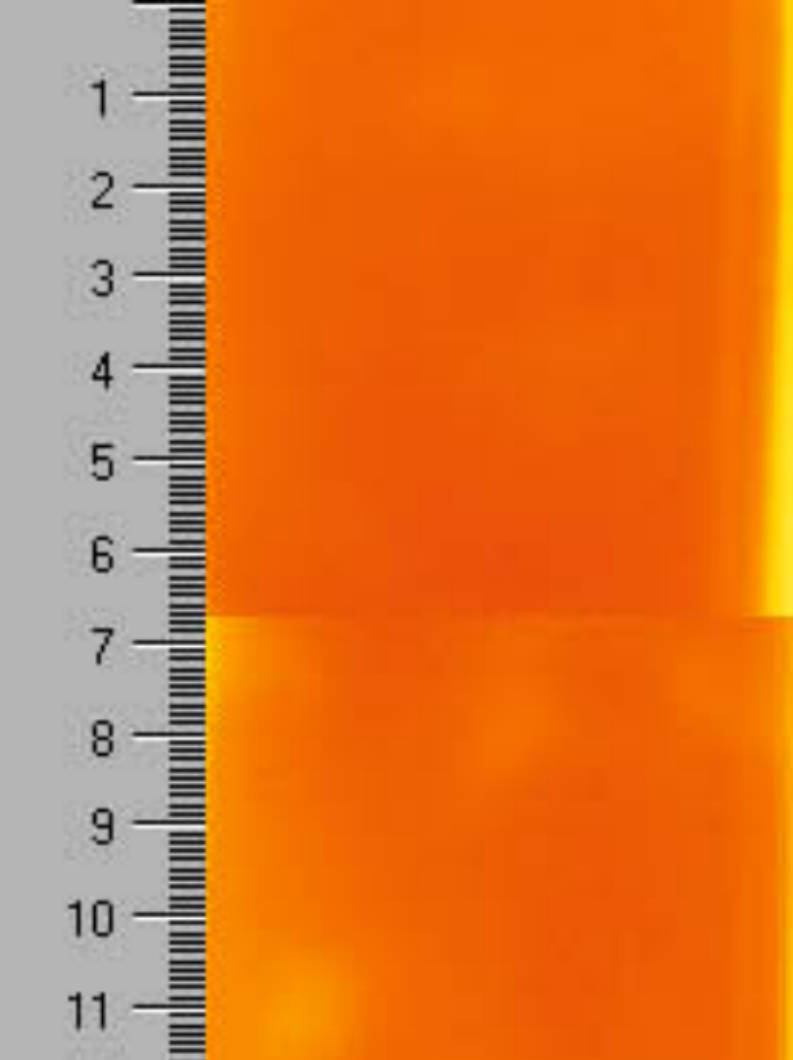
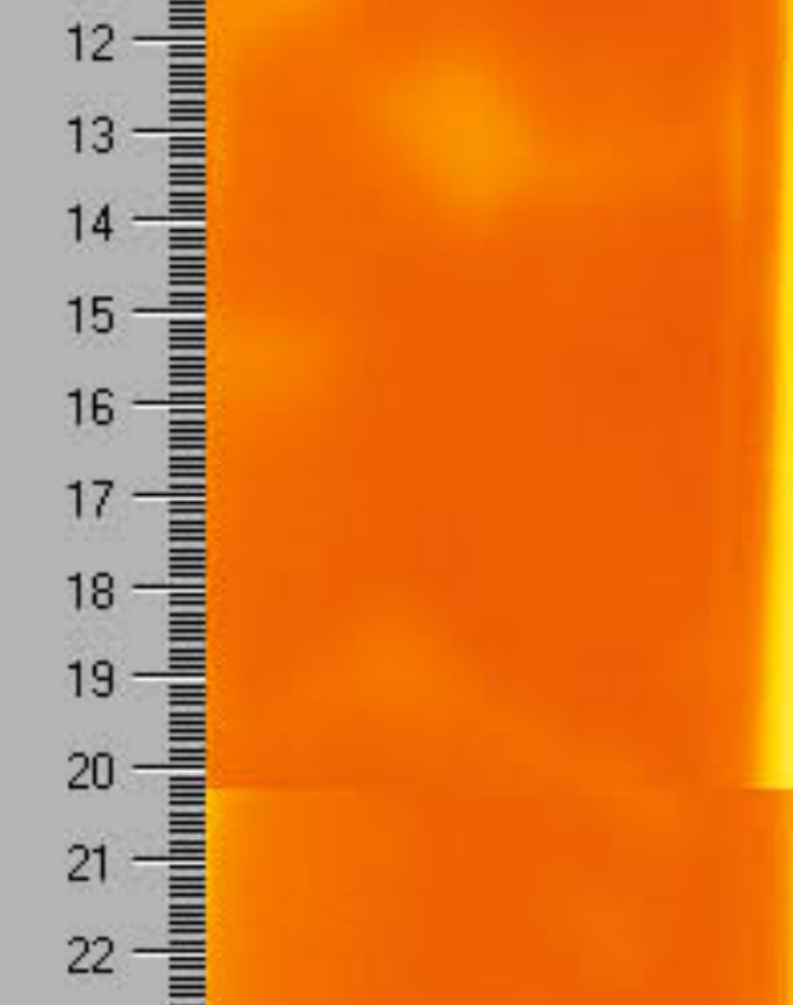
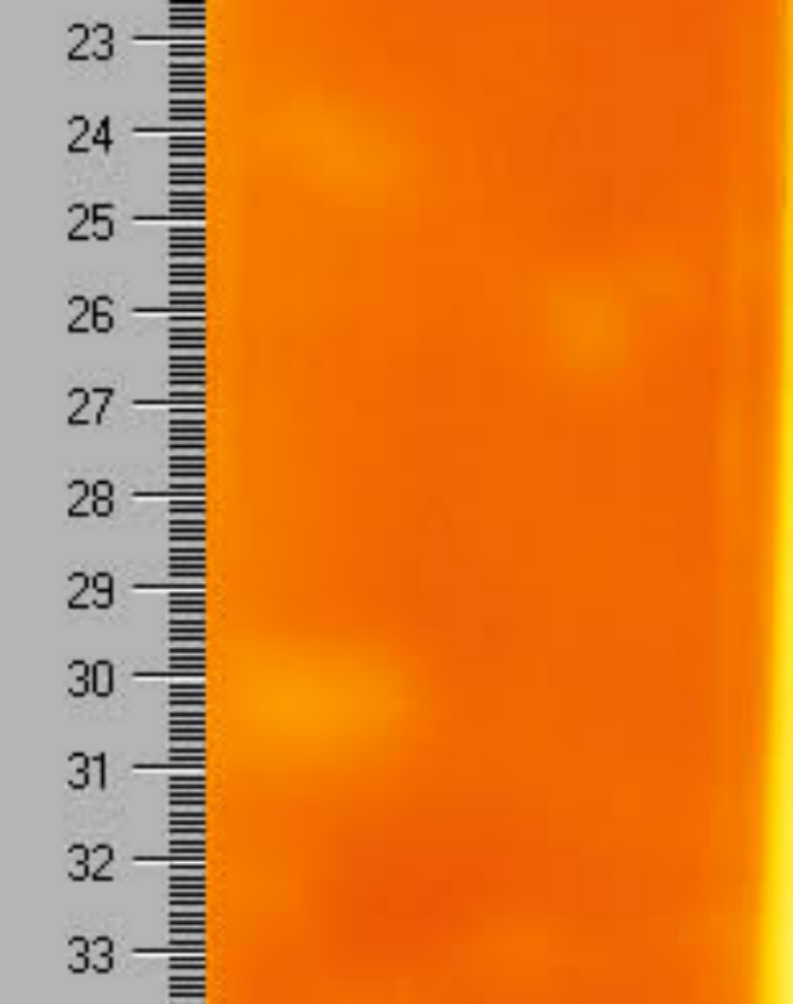
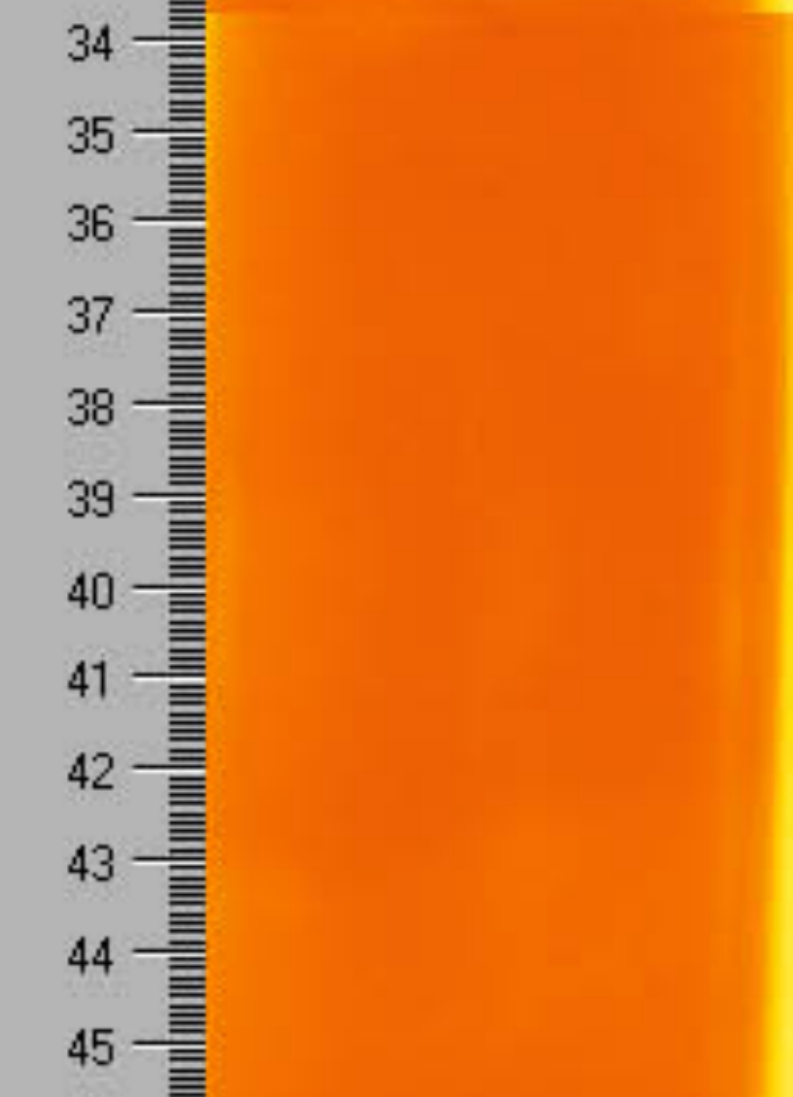
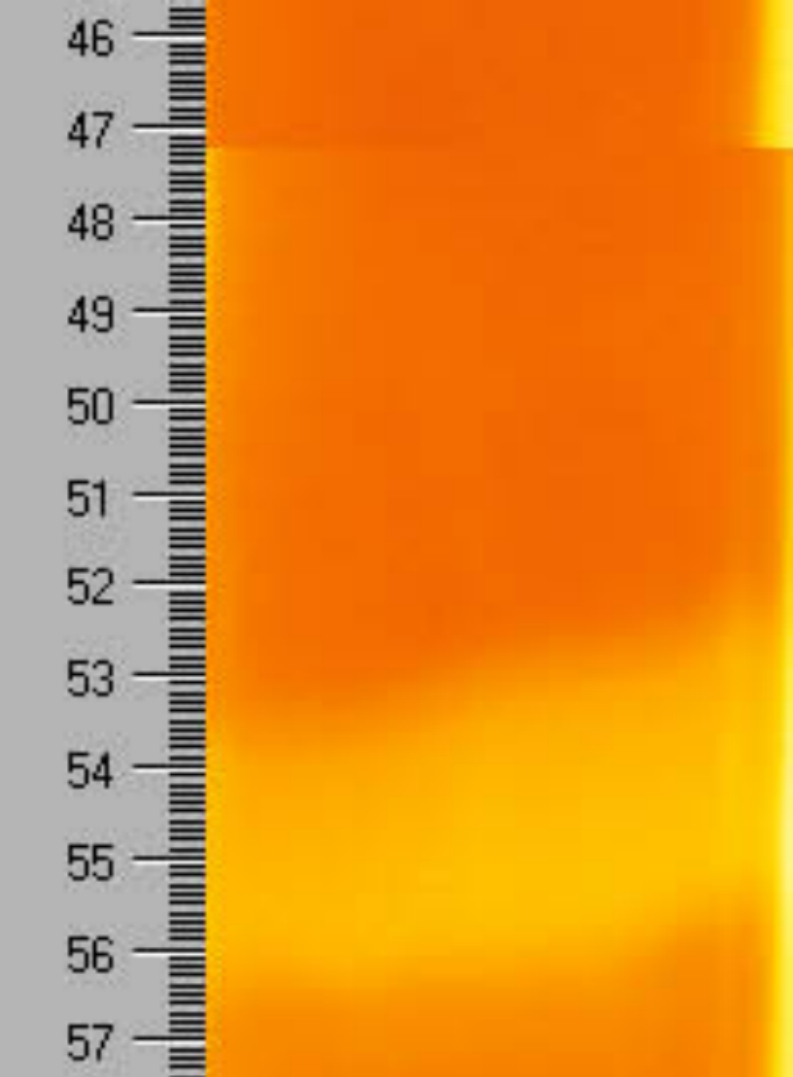
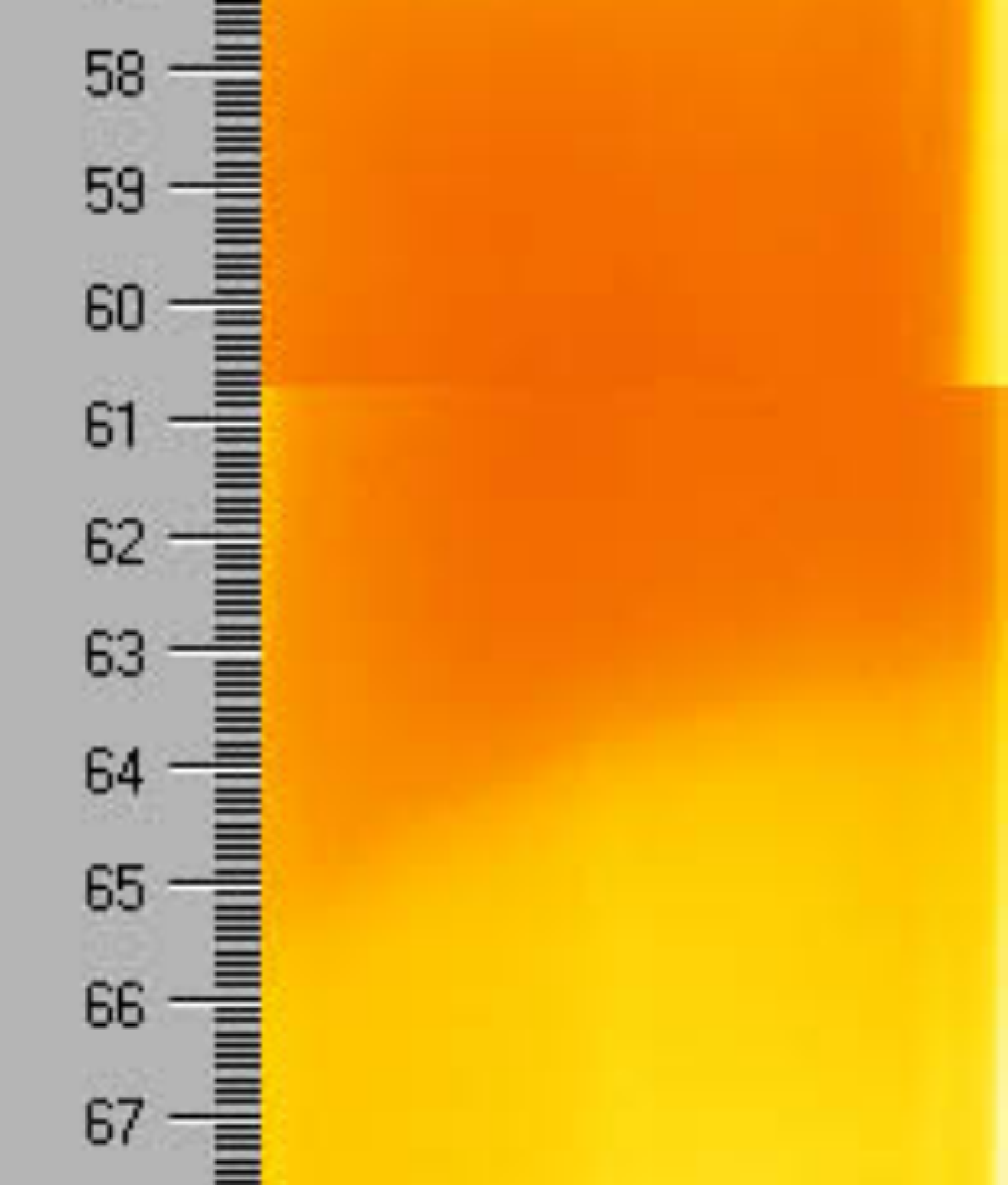

1
2
3
4
5
6
7
8
9
10
11

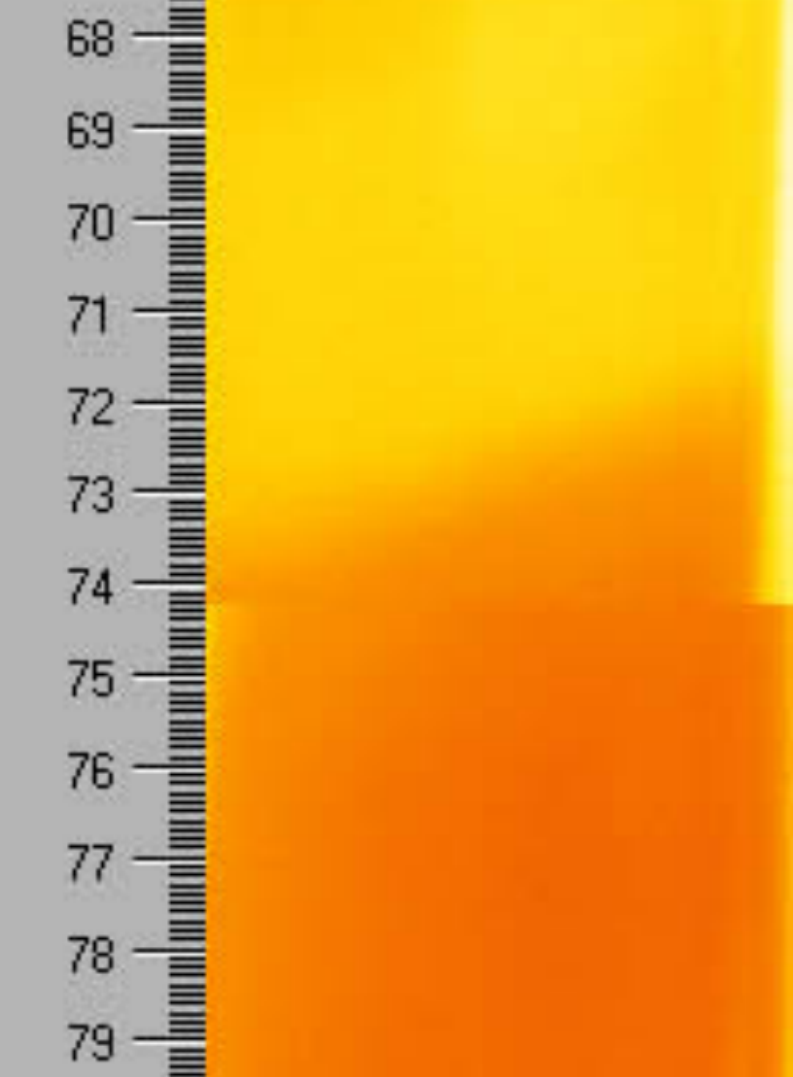

12
13
14
15
16
17
18
19
20
21
22

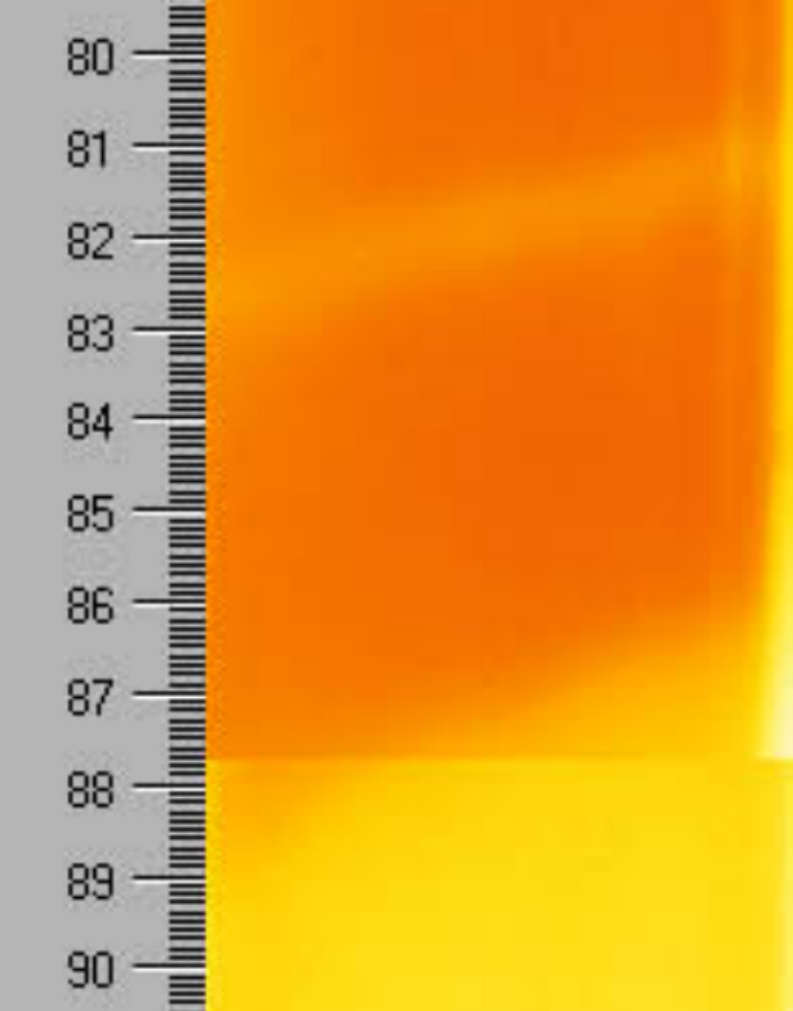

23
24
25
26
27
28
29
30
31
32
33

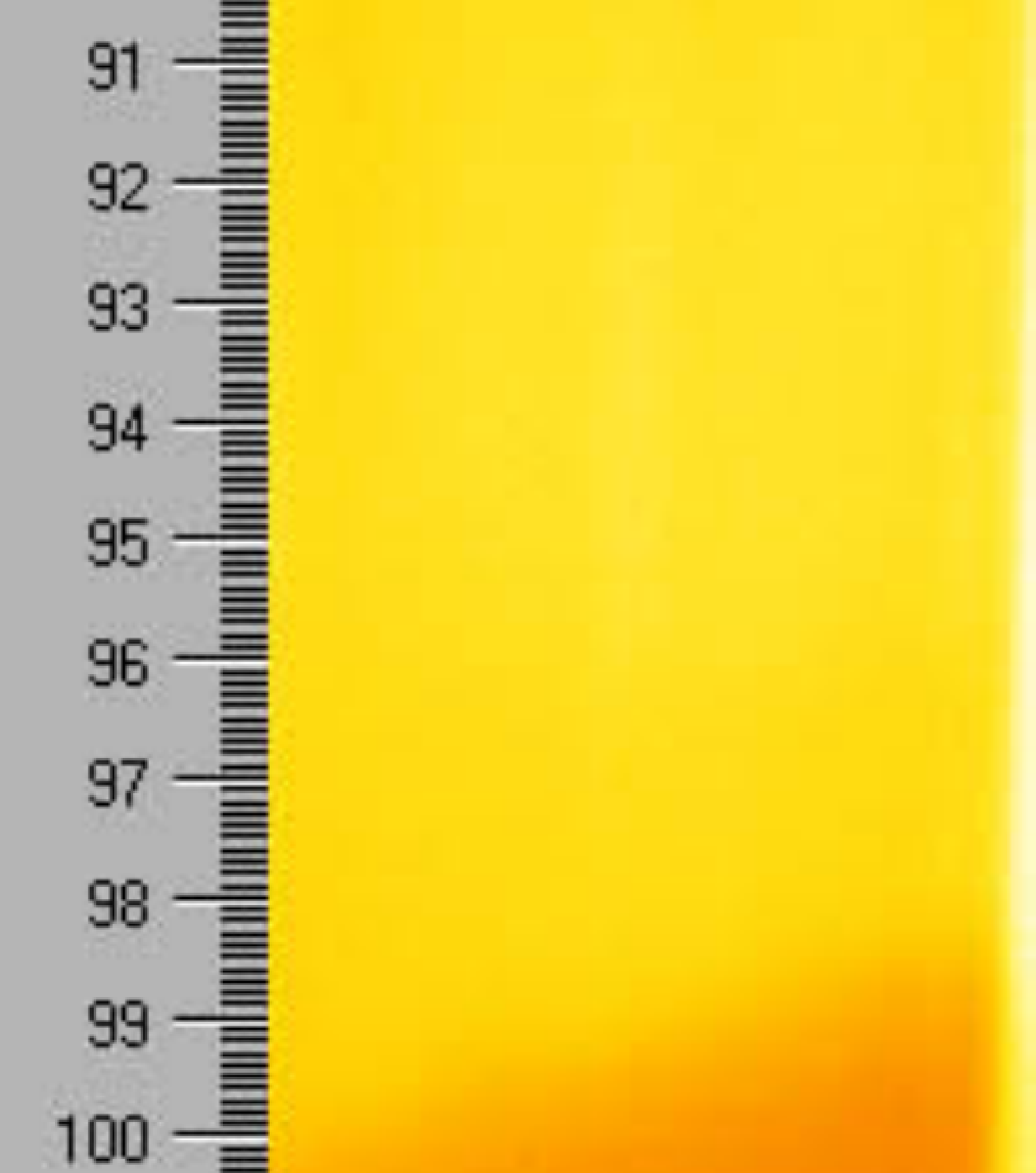

34
35
36
37
38
39
40
41
42
43
44
45

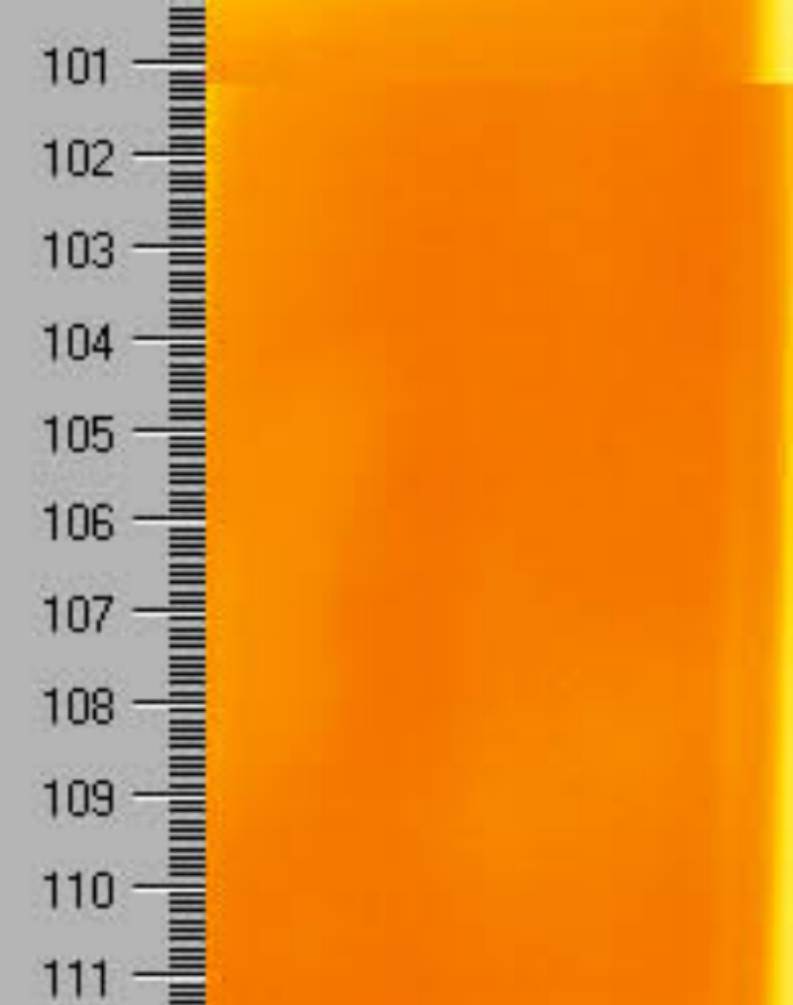

46
47
48
49
50
51
52
53
54
55
56
57

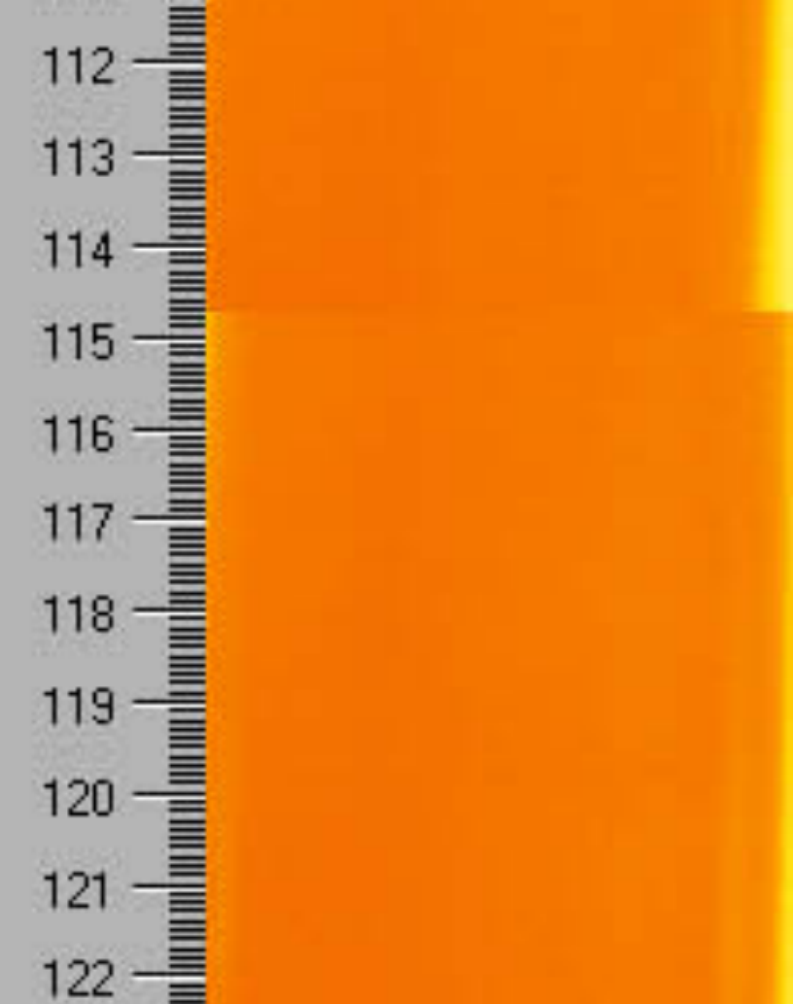

58
59
60
61
62
63
64
65
66
67

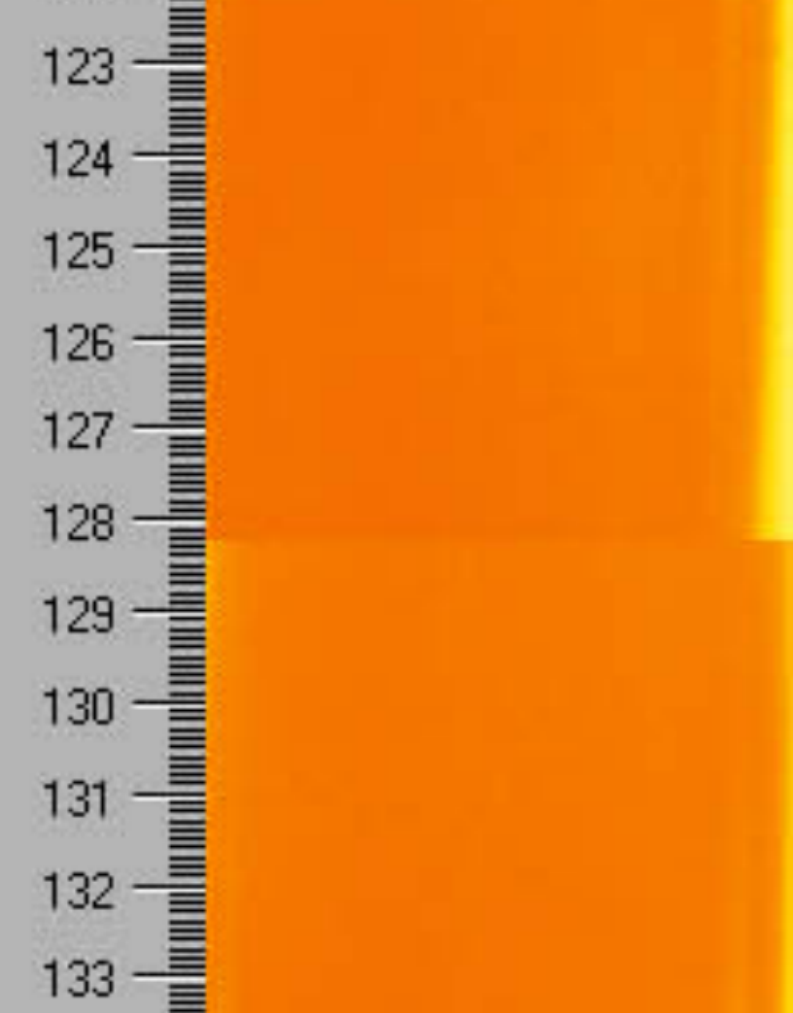

68
69
70
71
72
73
74
75
76
77
78
79

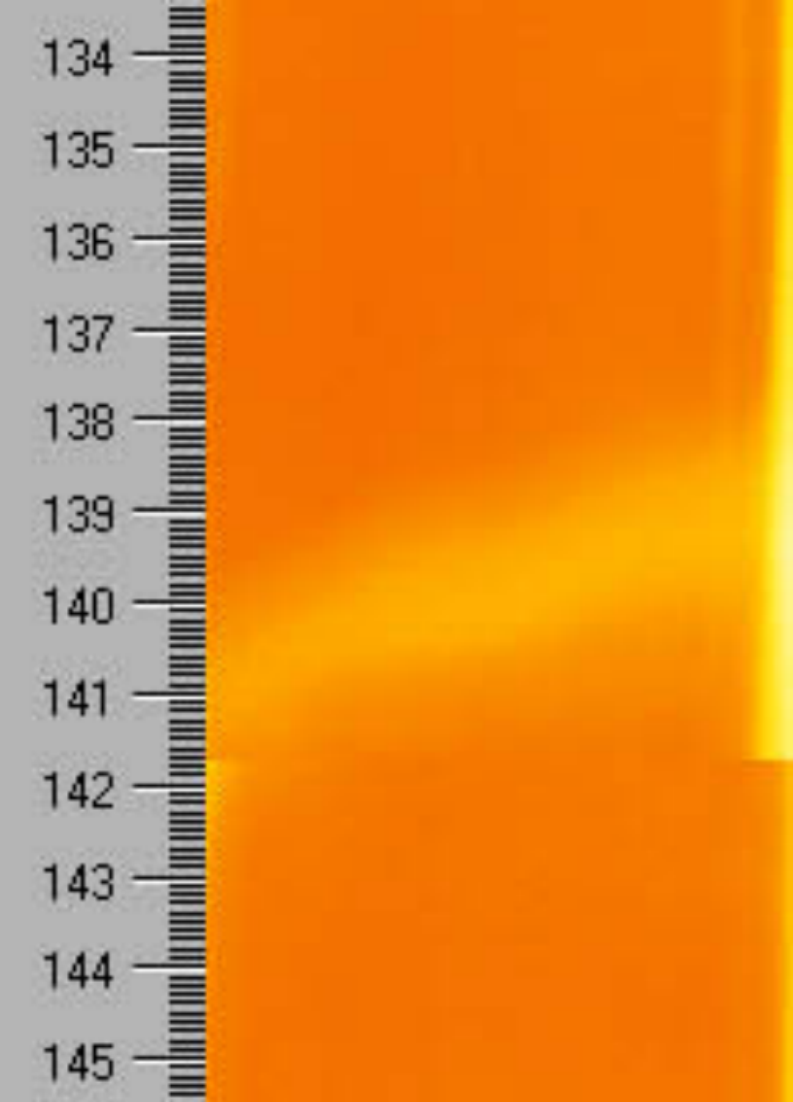

80
81
82
83
84
85
86
87
88
89
90

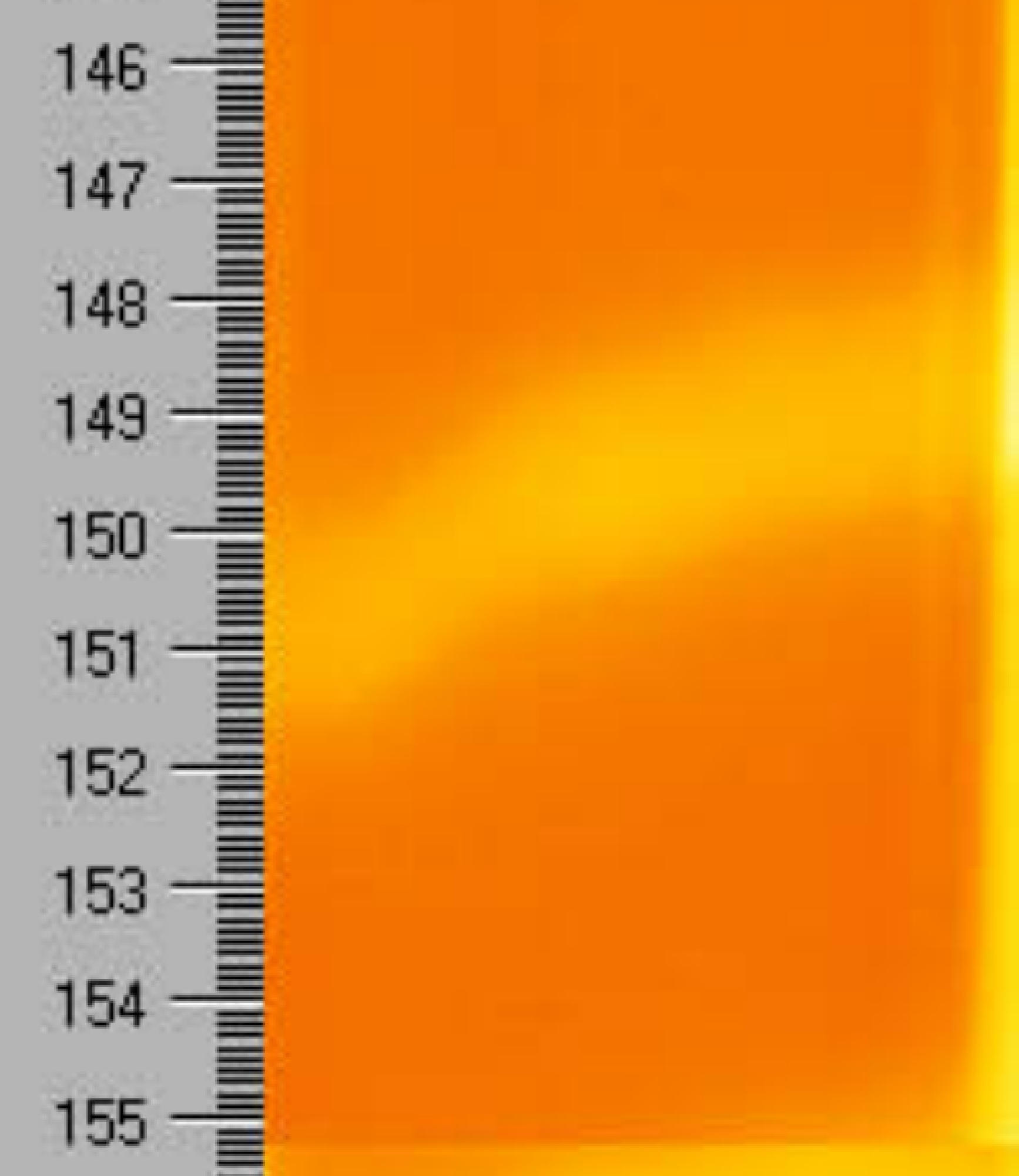

91
92
93
94
95
96
97
98
99
100

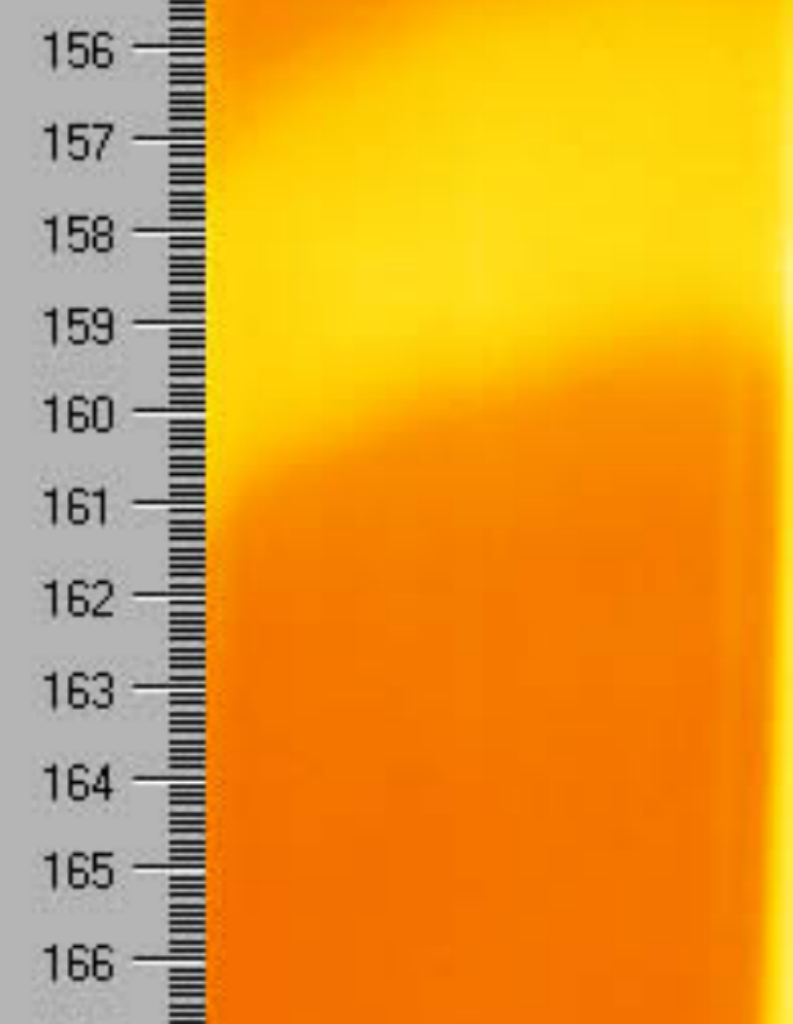

101
102
103
104
105
106
107
108
109
110
111

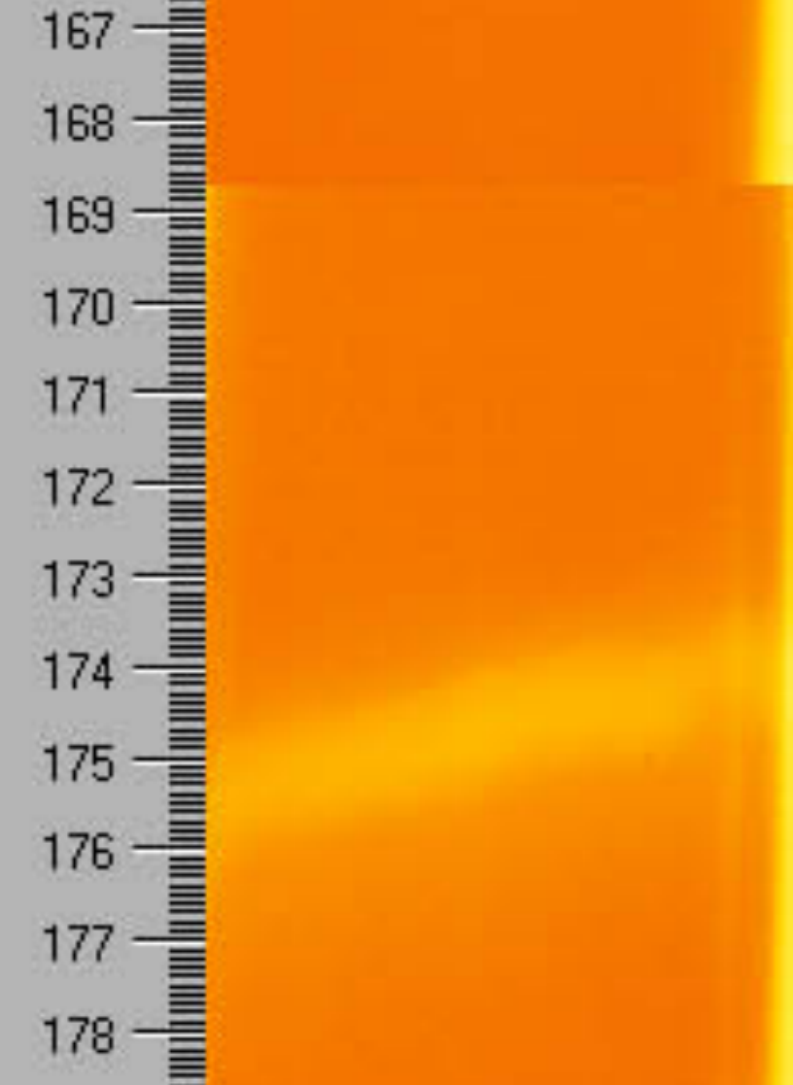

112
113
114
115
116
117
118
119
120
121
122

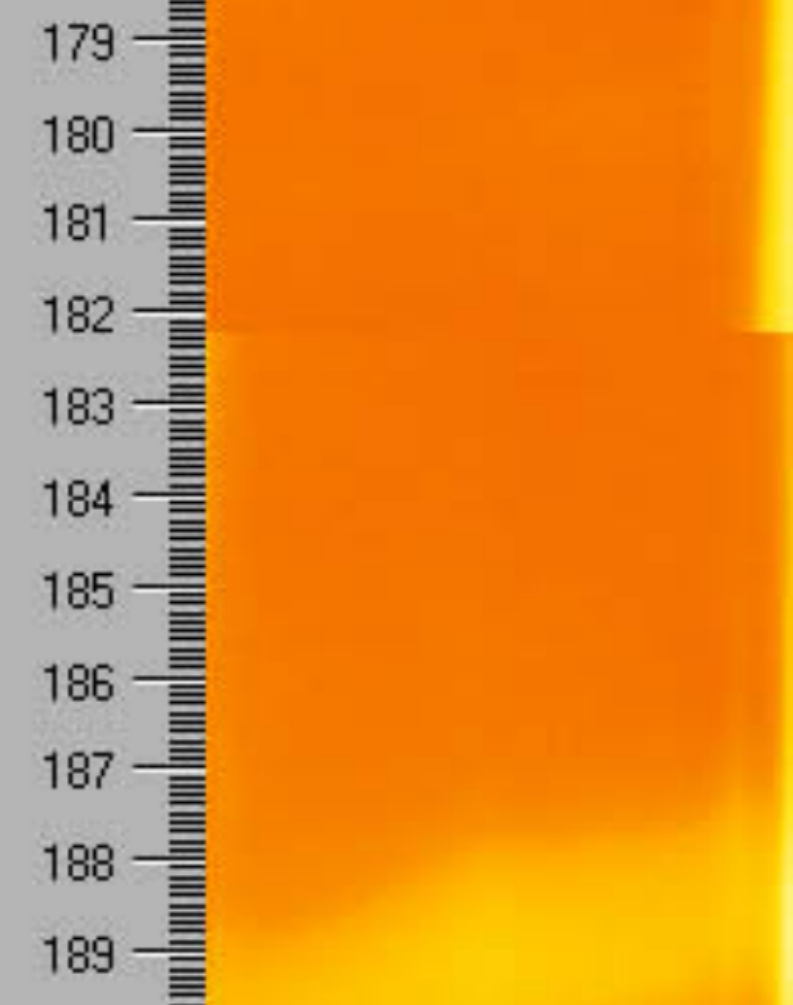

123
124
125
126
127
128
129
130
131
132
133

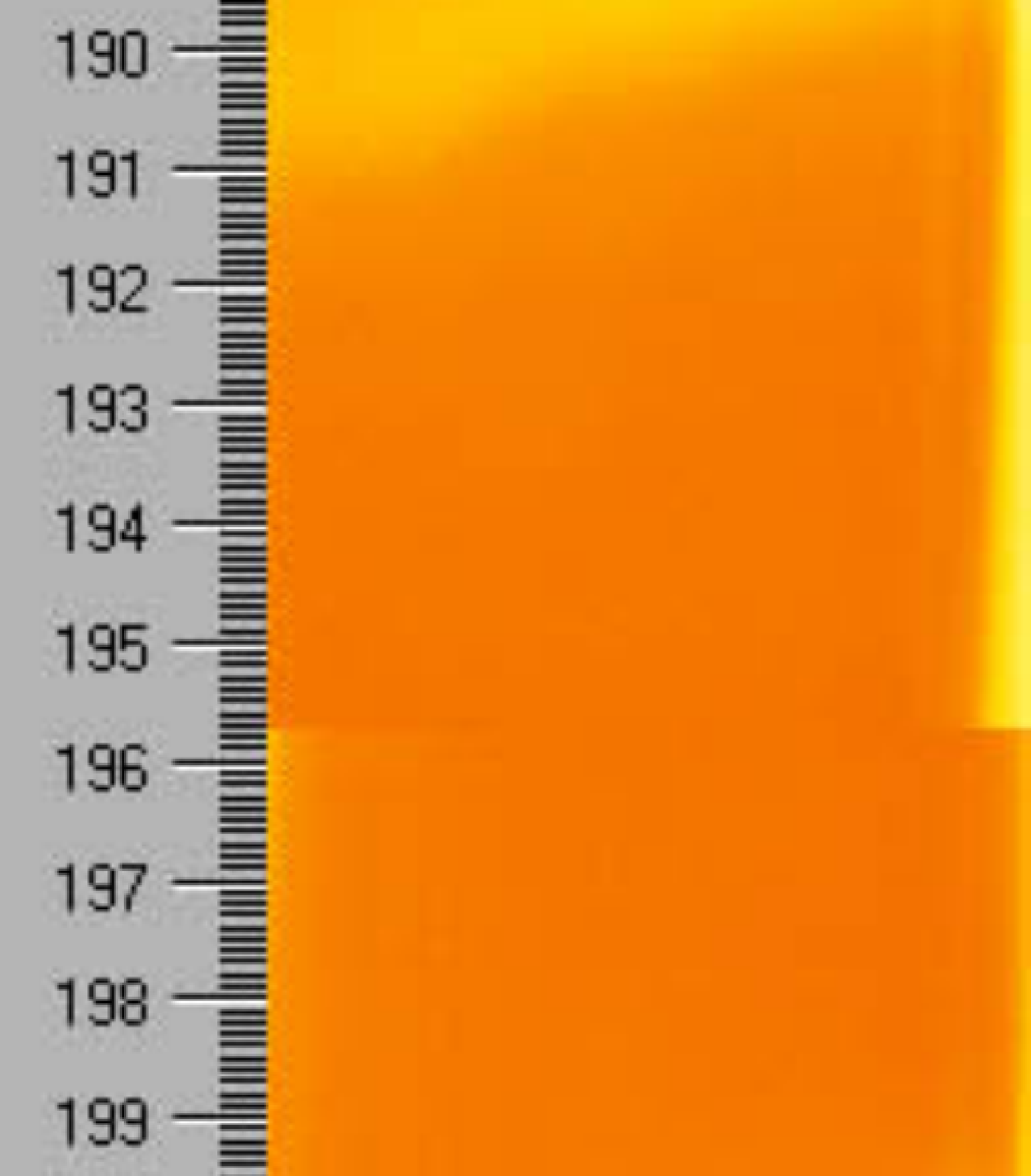

134
135
136
137
138
139
140
141
142
143
144
145

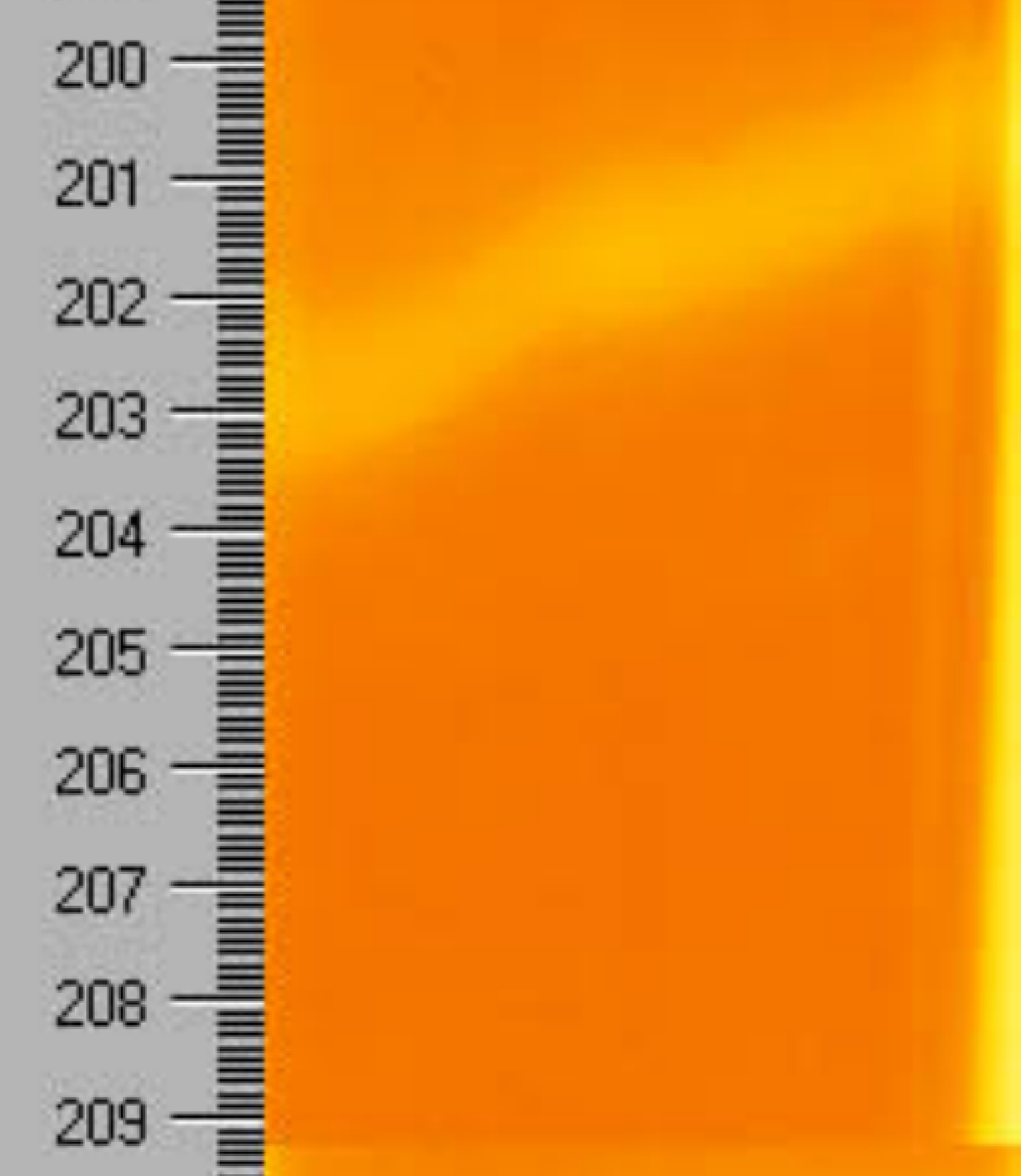

146
147
148
149
150
151
152
153
154
155

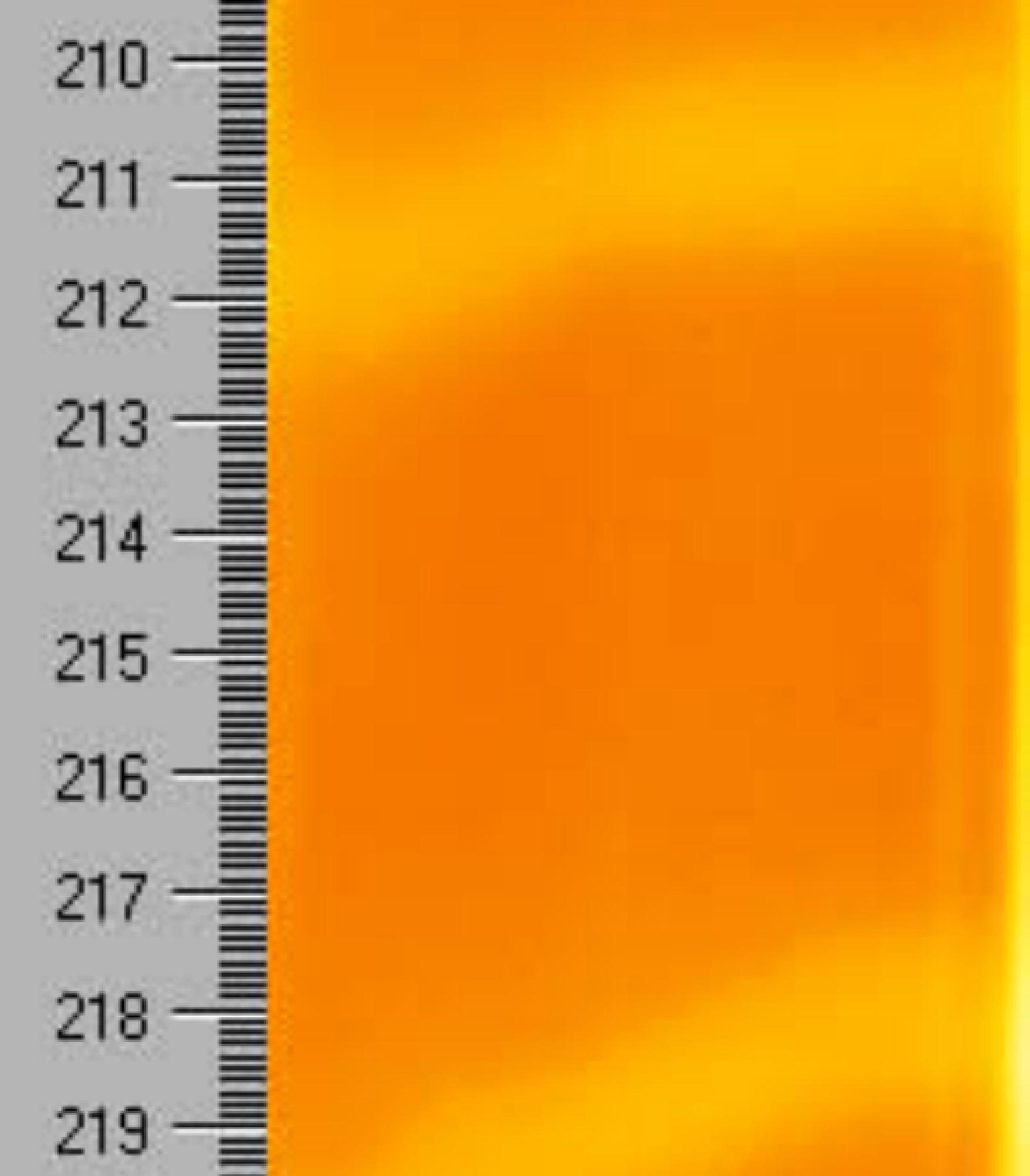

156
157
158
159
160
161
162
163
164
165
166

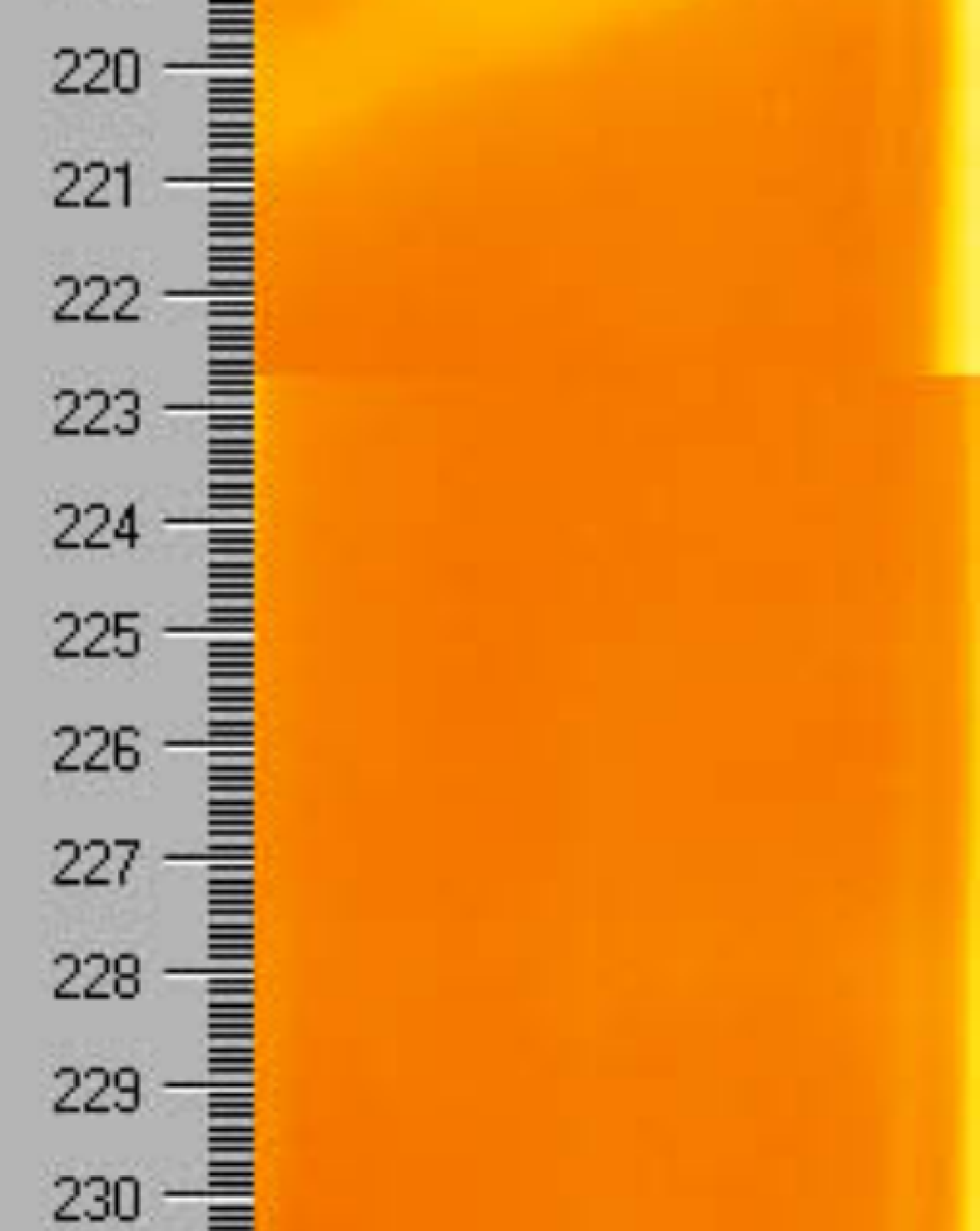

167
168
169
170
171
172
173
174
175
176
177
178

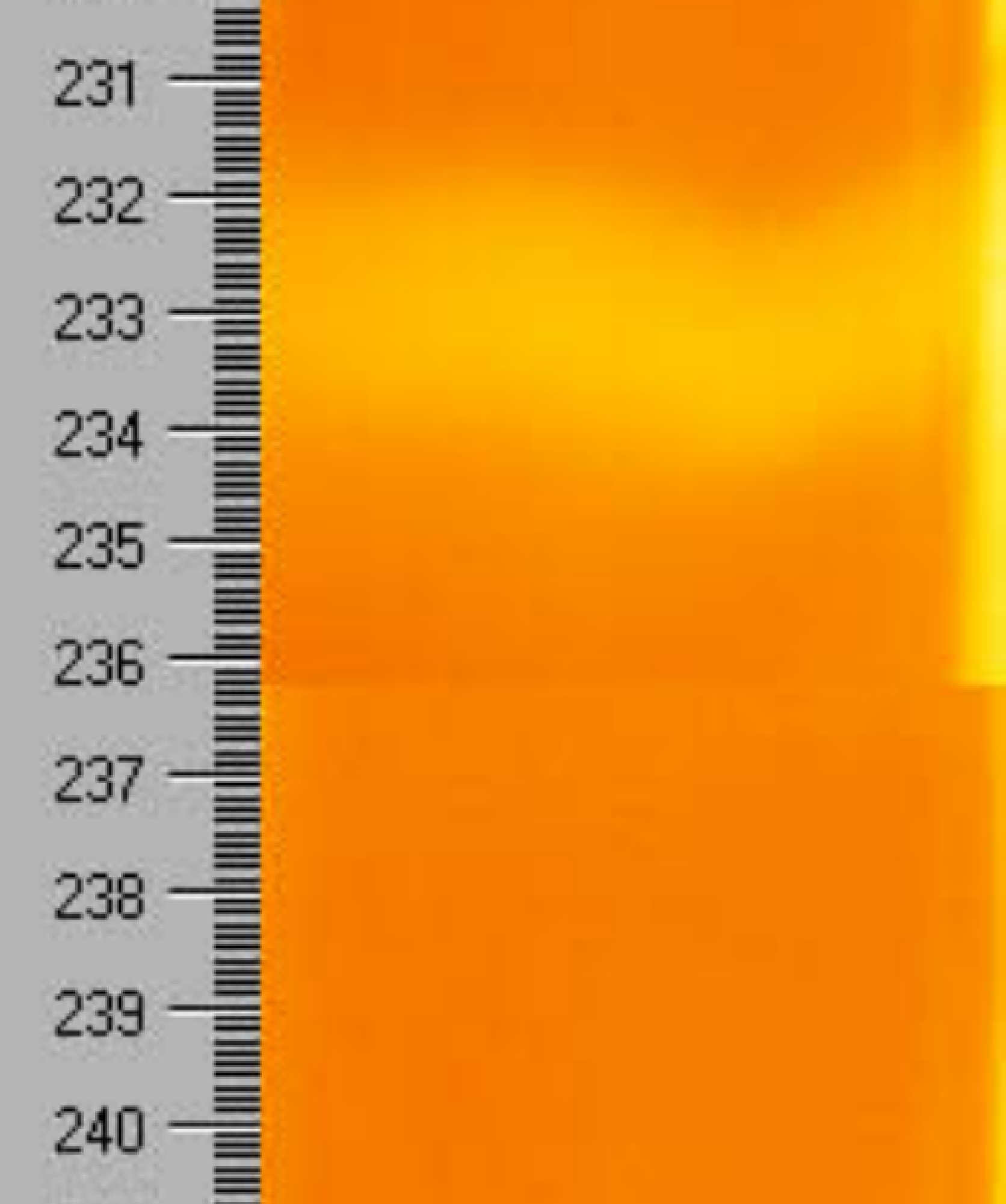

179
180
181
182
183
184
185
186
187
188
189

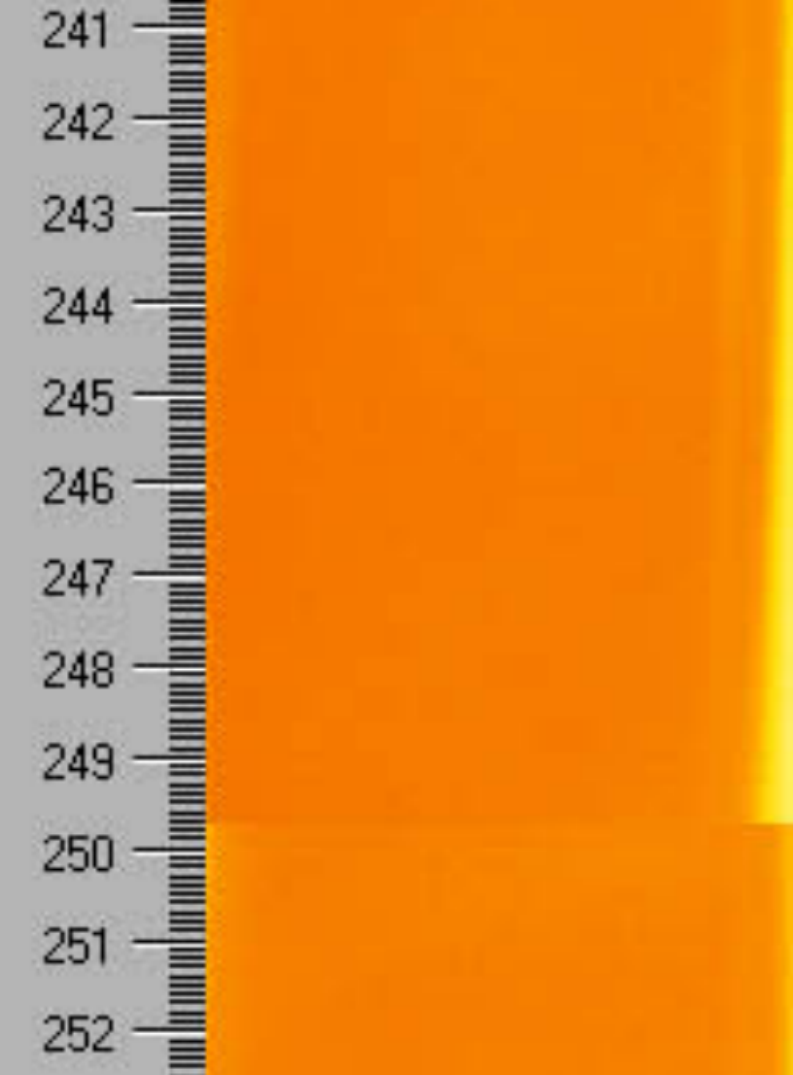

190
191
192
193
194
195
196
197
198
199

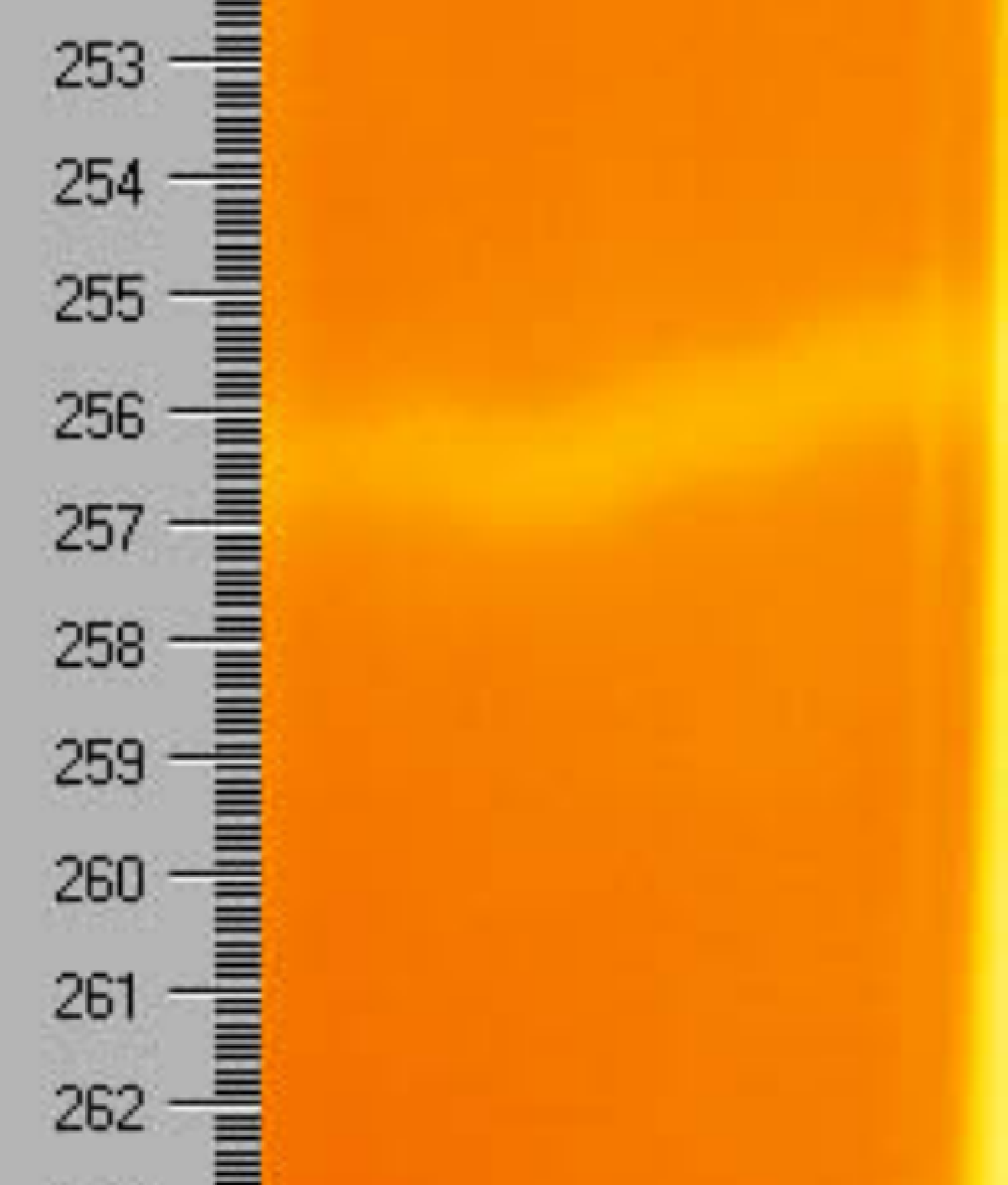

200
201
202
203
204
205
206
207
208
209

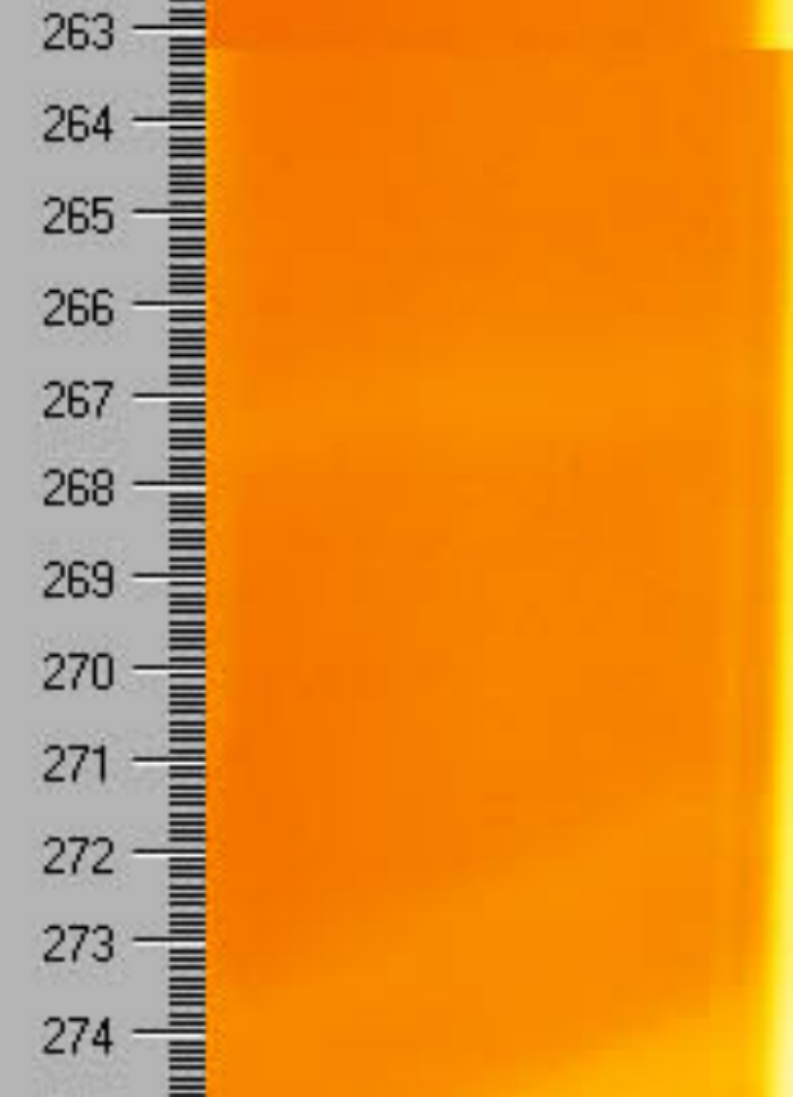

210
211
212
213
214
215
216
217
218
219

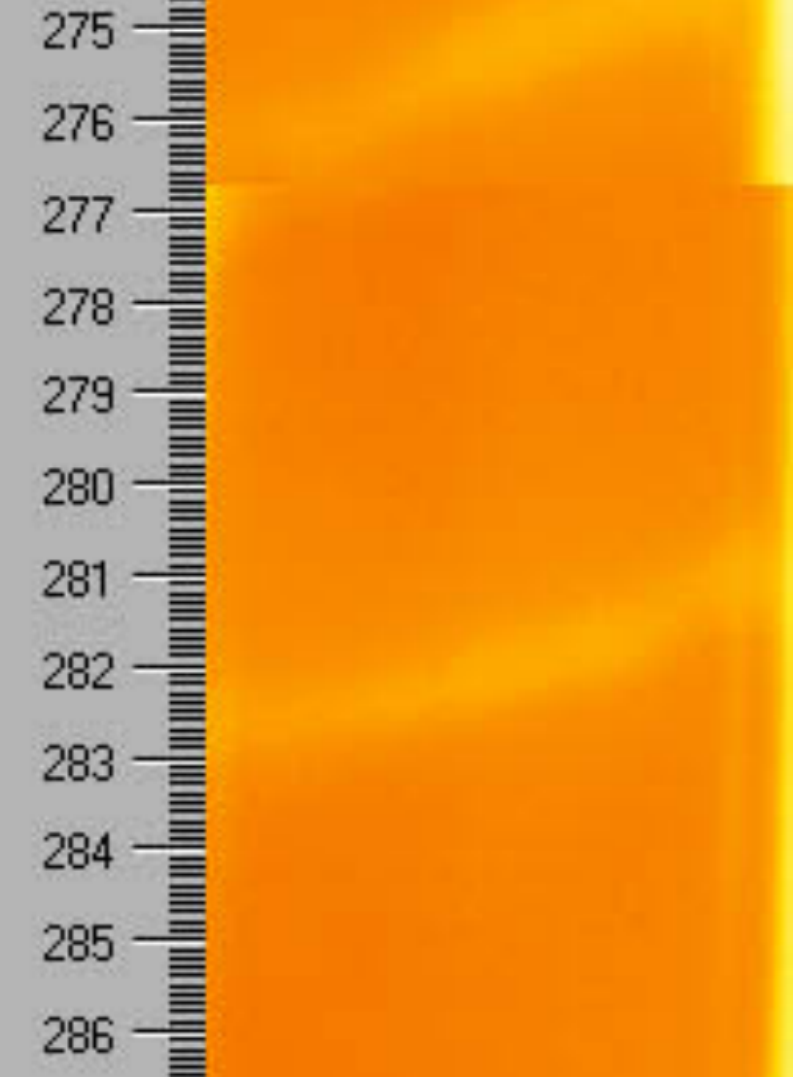

220
221
222
223
224
225
226
227
228
229
230

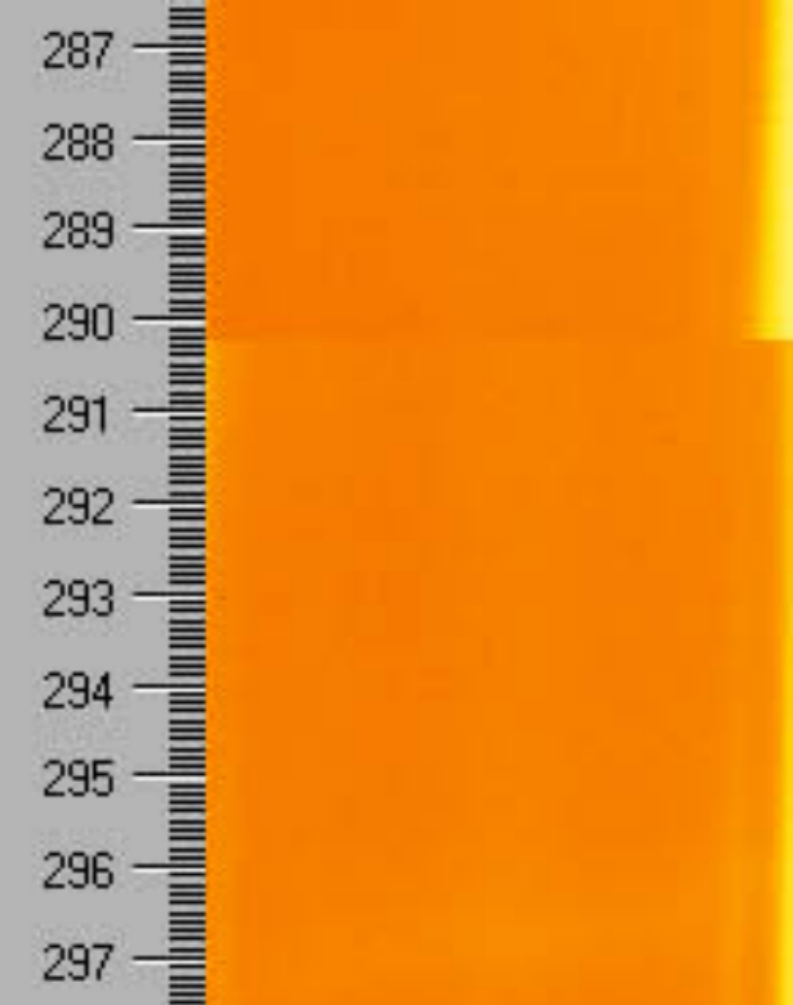

231
232
233
234
235
236
237
238
239
240

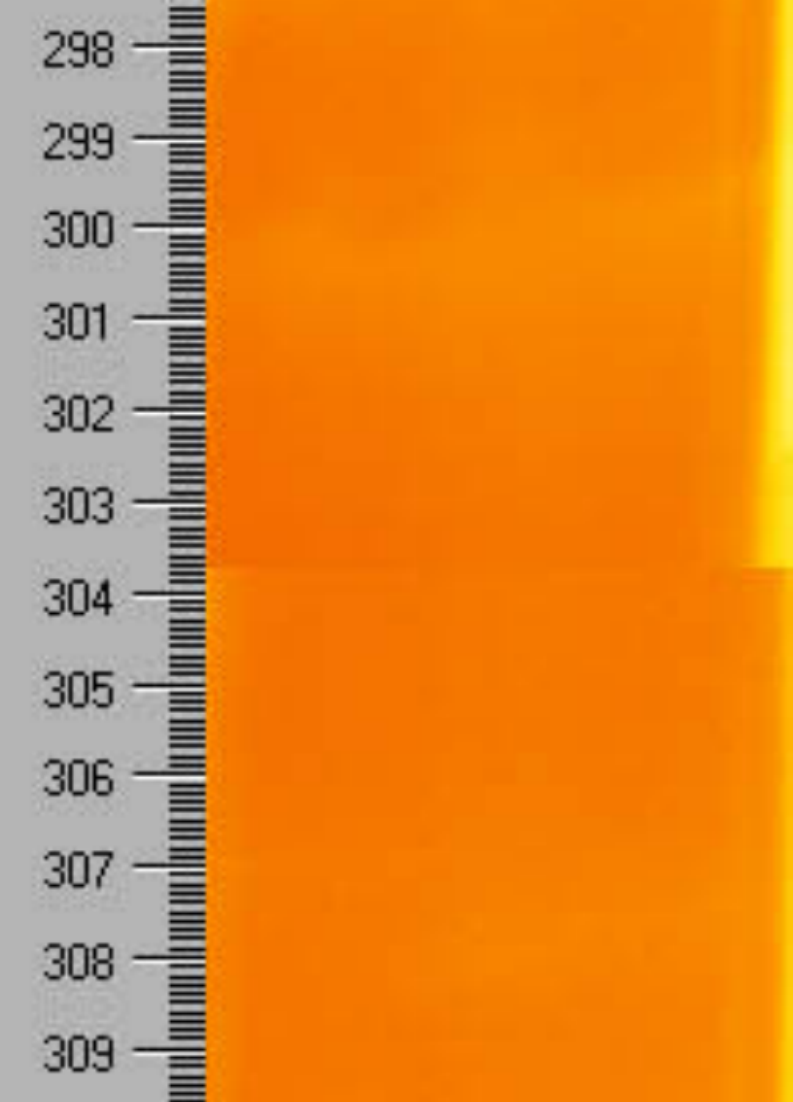

241
242
243
244
245
246
247
248
249
250
251
252


253
254
255
256
257
258
259
260
261
262

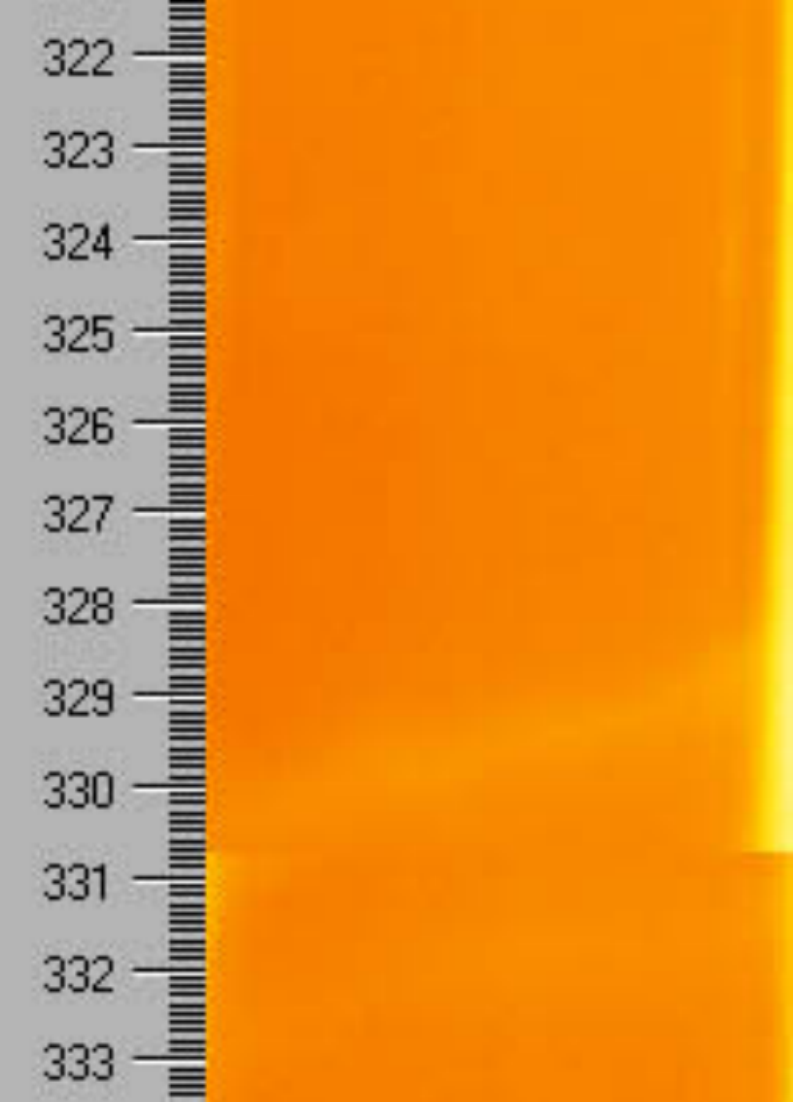

263
264
265
266
267
268
269
270
271
272
273
274

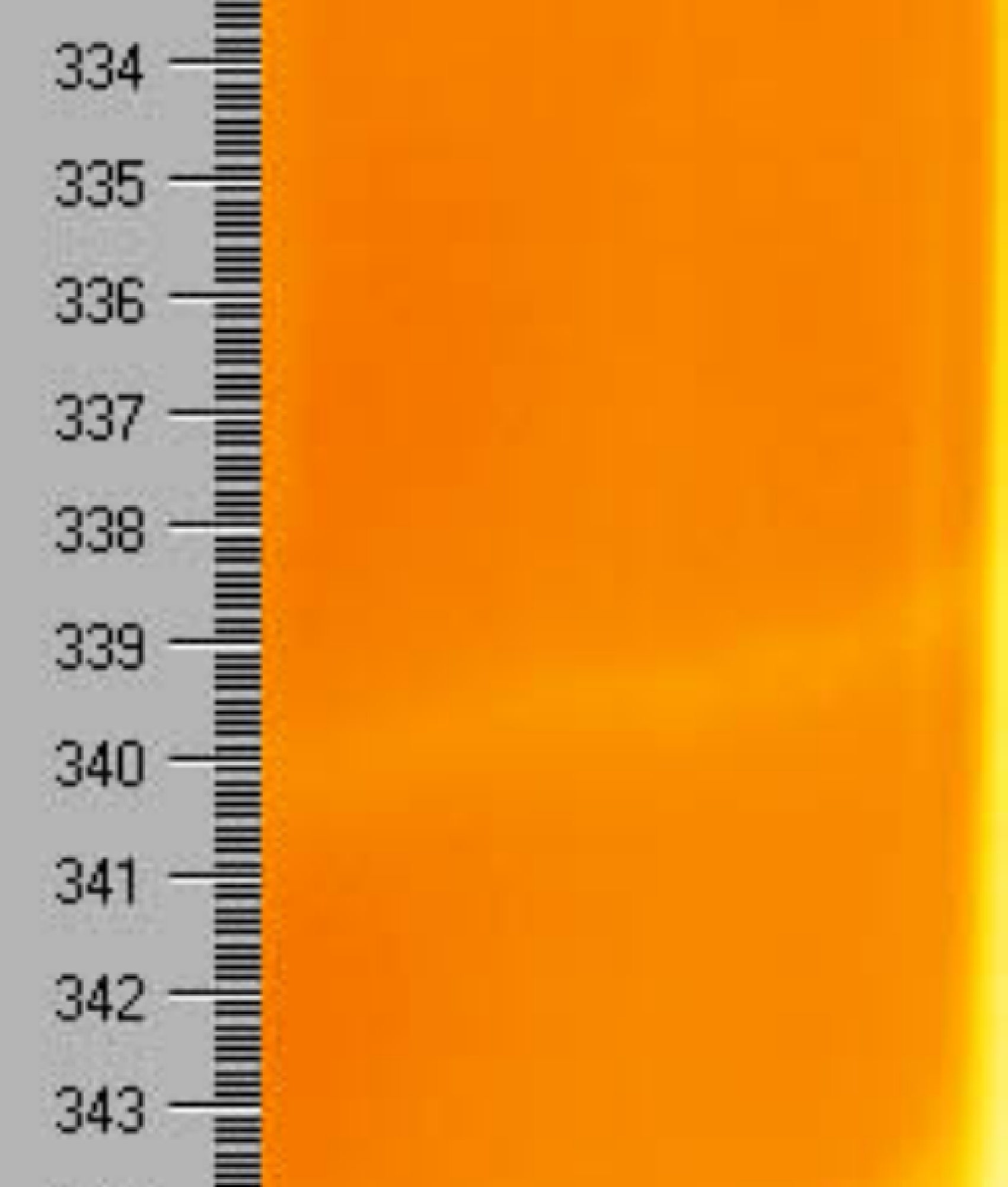

275
276
277
278
279
280
281
282
283
284
285
286

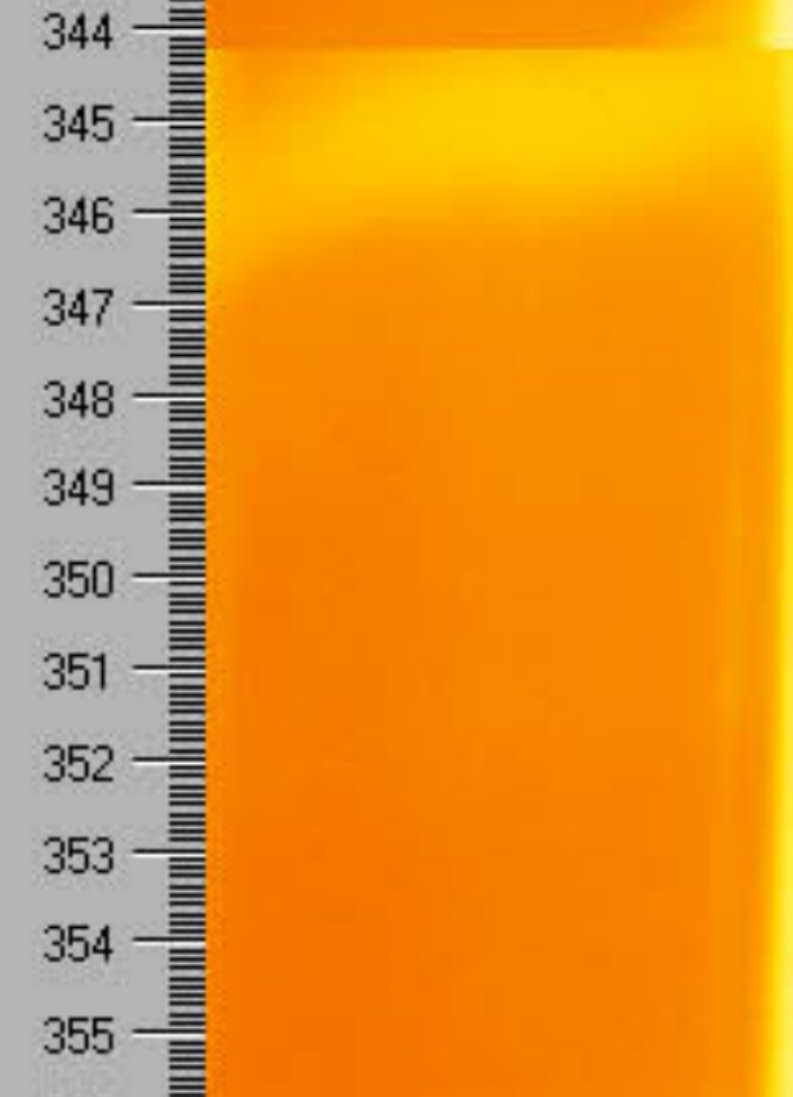

287
288
289
290
291
292
293
294
295
296
297


298
299
300
301
302
303
304
305
306
307
308
309

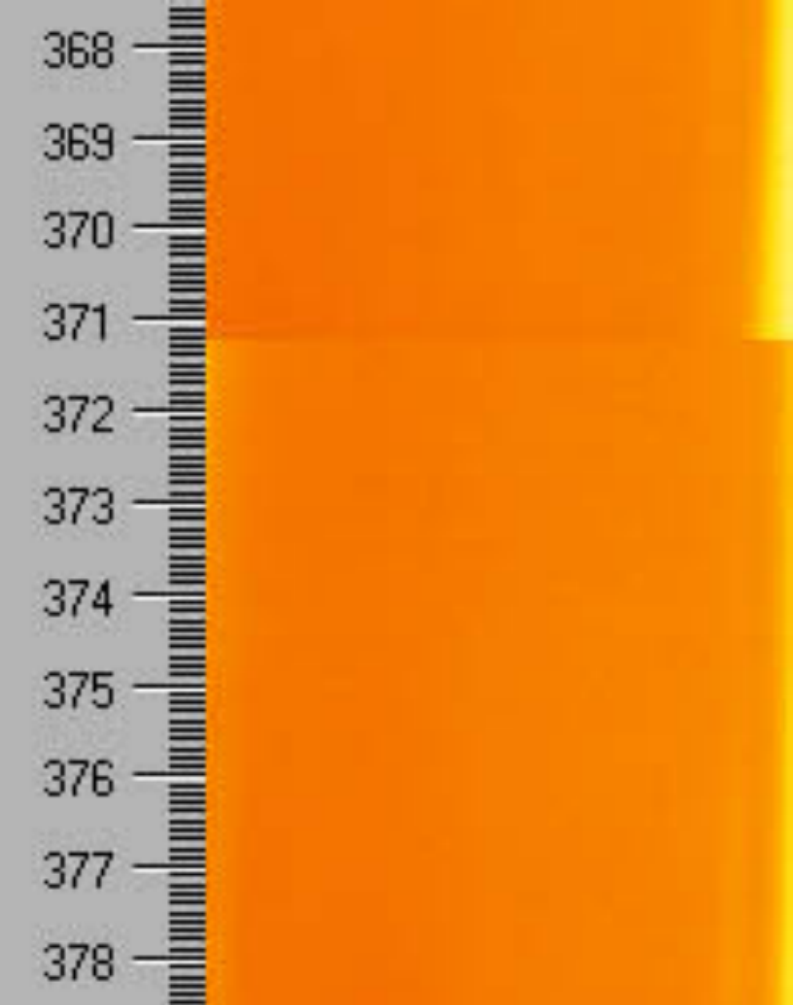
310
311
312
313
314
315
316
317
318
319
320
321

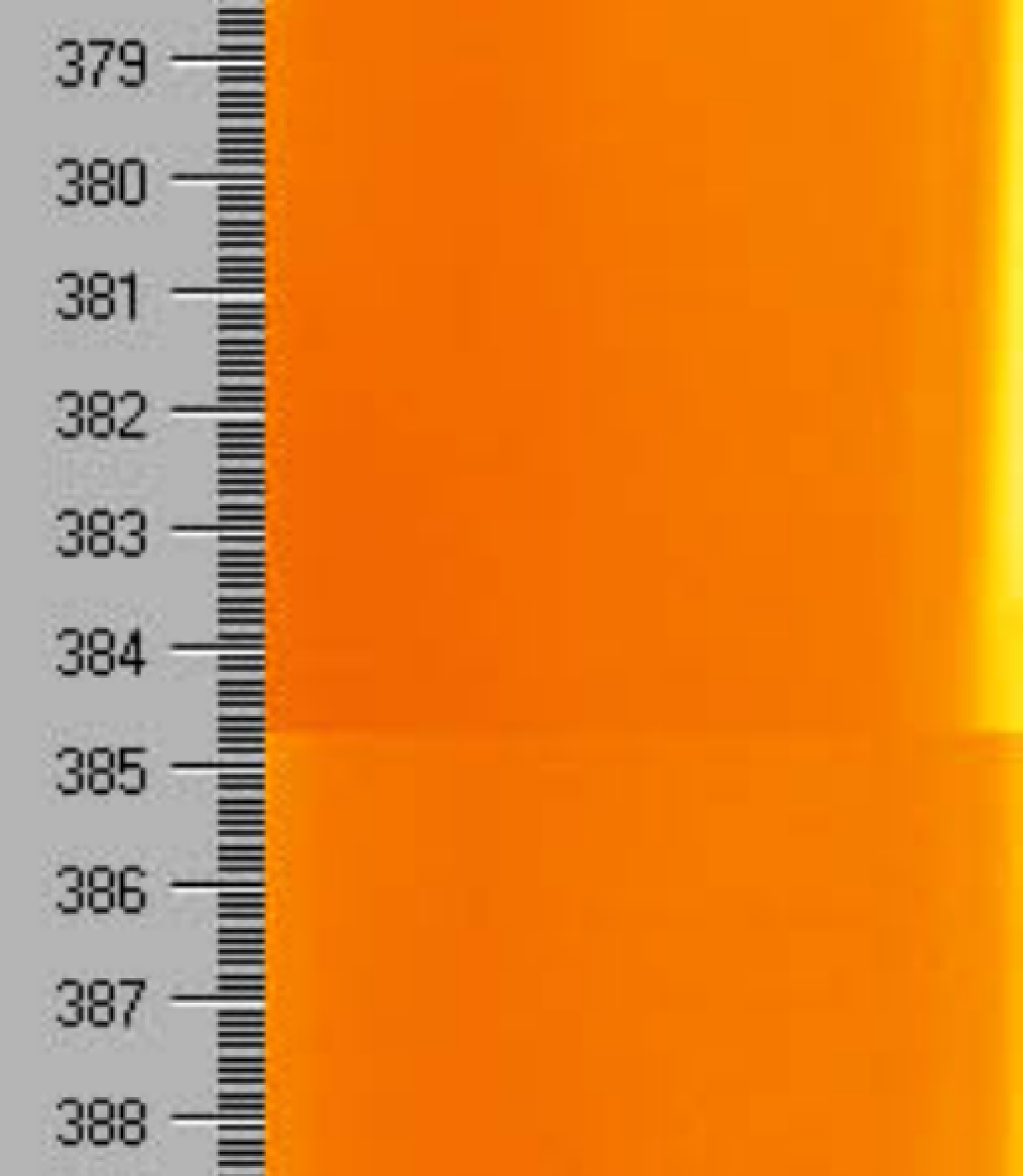

322
323
324
325
326
327
328
329
330
331
332
333

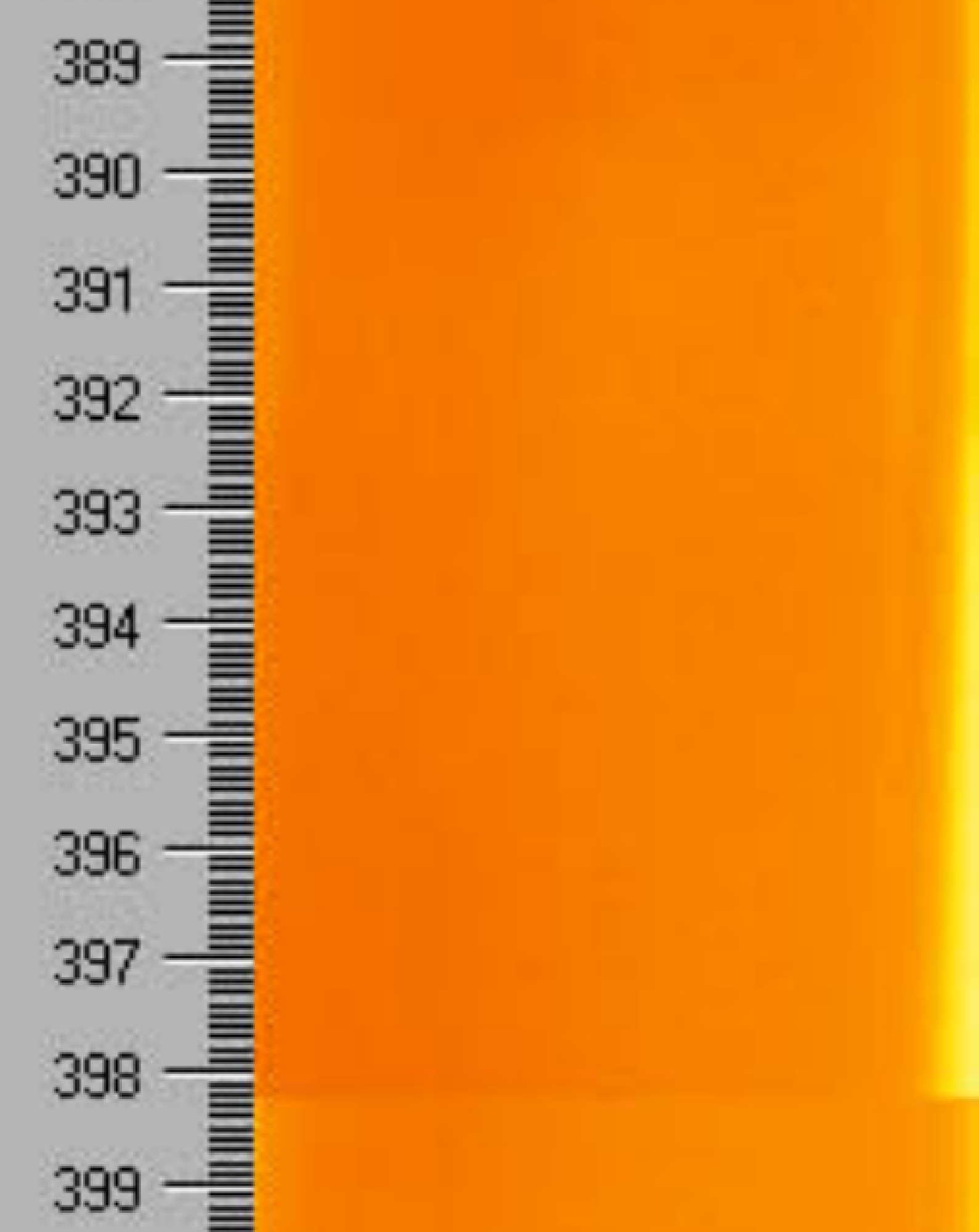

334
335
336
337
338
339
340
341
342
343

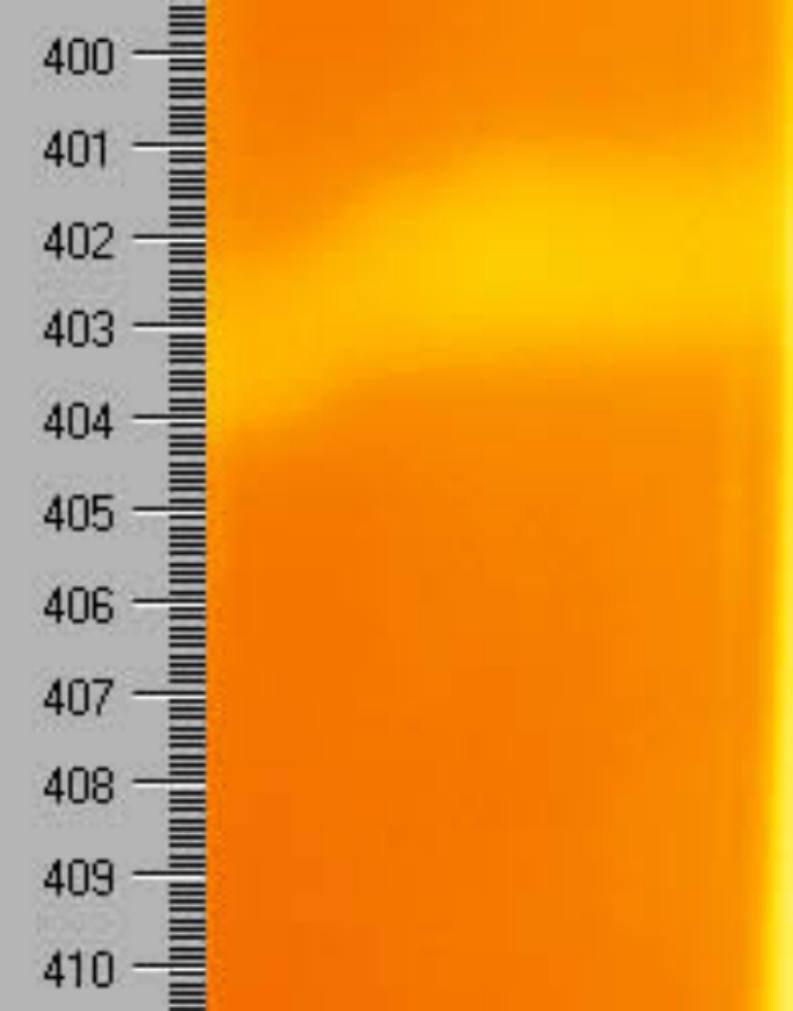

344
345
346
347
348
349
350
351
352
353
354
355

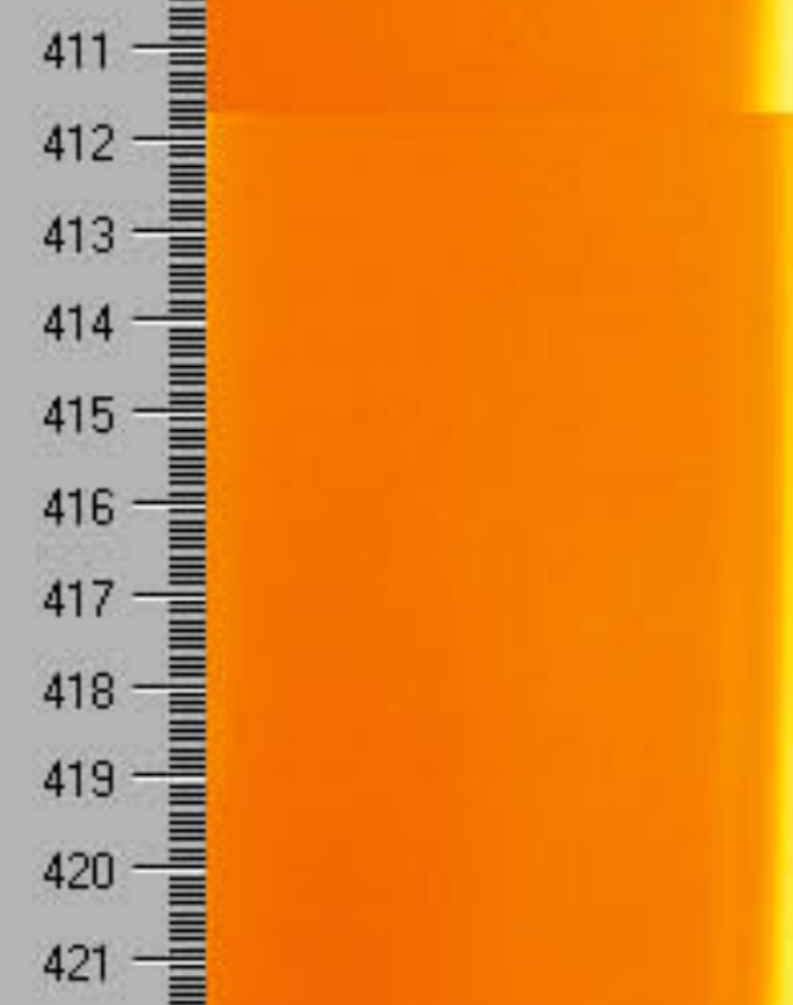
356
357
358
359
360
361
362
363
364
365
366
367

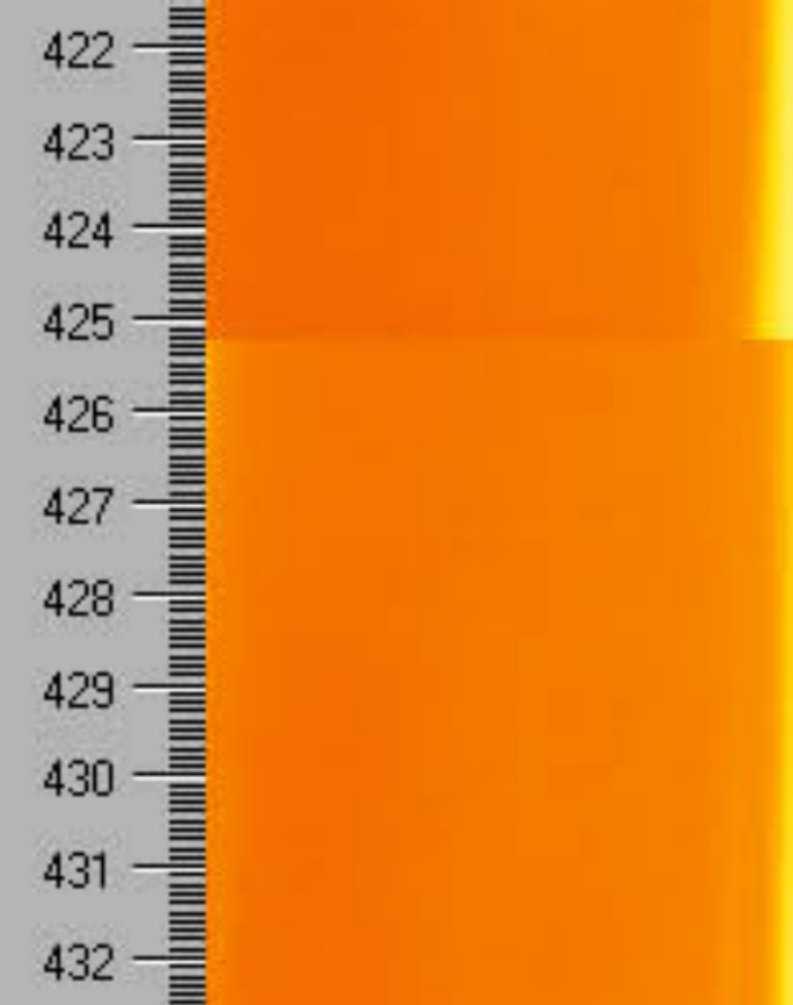

368
369
370
371
372
373
374
375
376
377
378

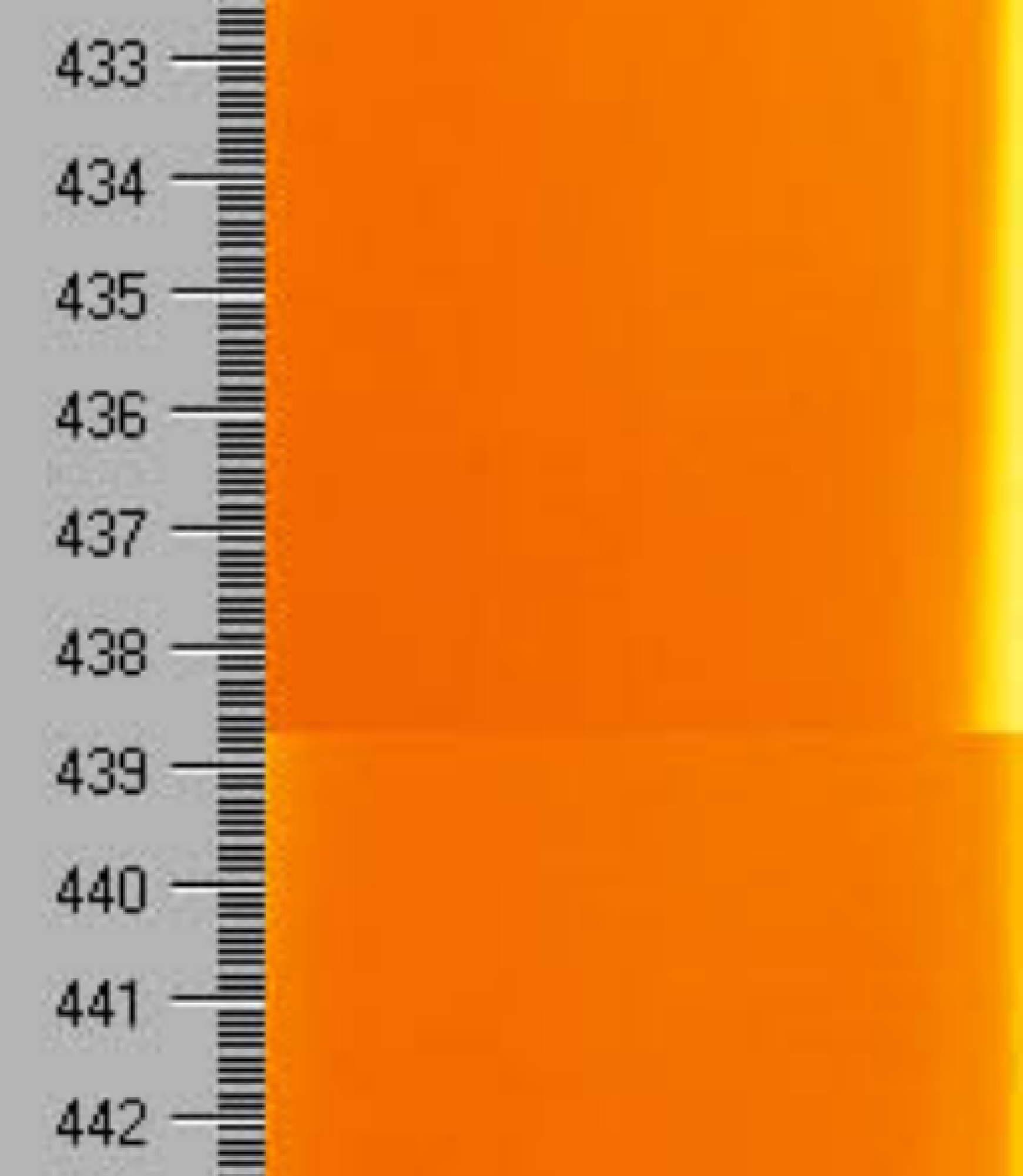

379
380
381
382
383
384
385
386
387
388

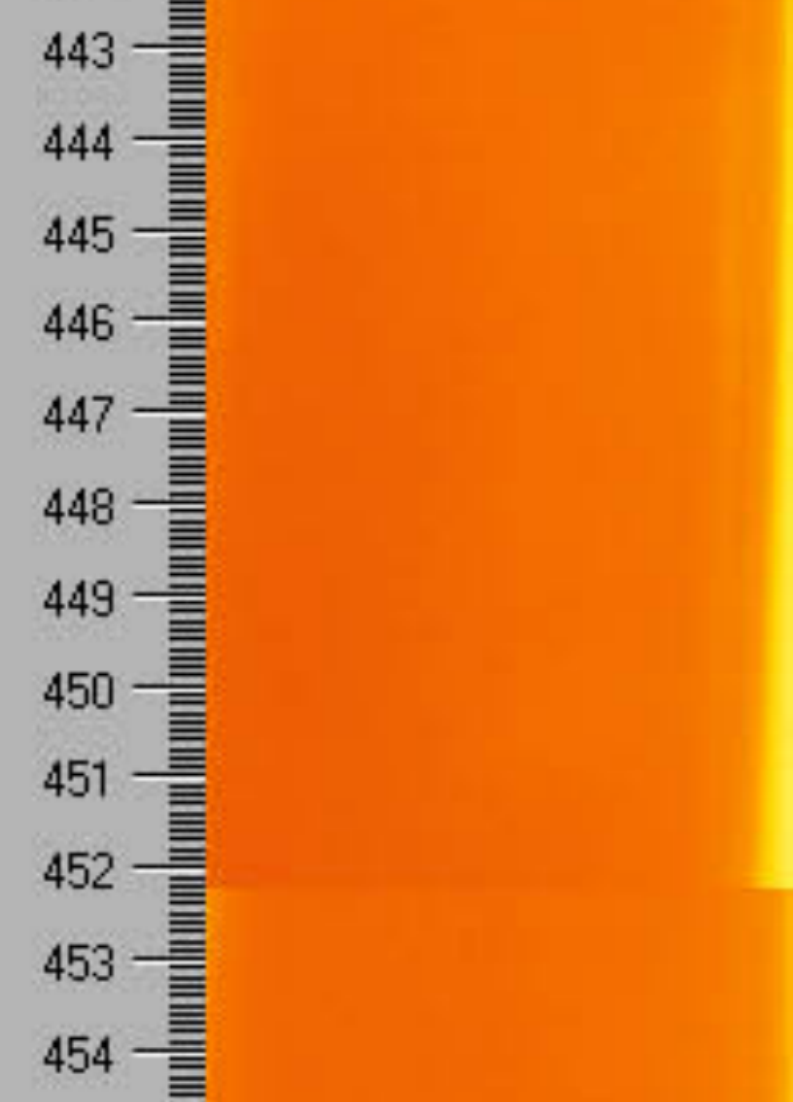

389
390
391
392
393
394
395
396
397
398
399

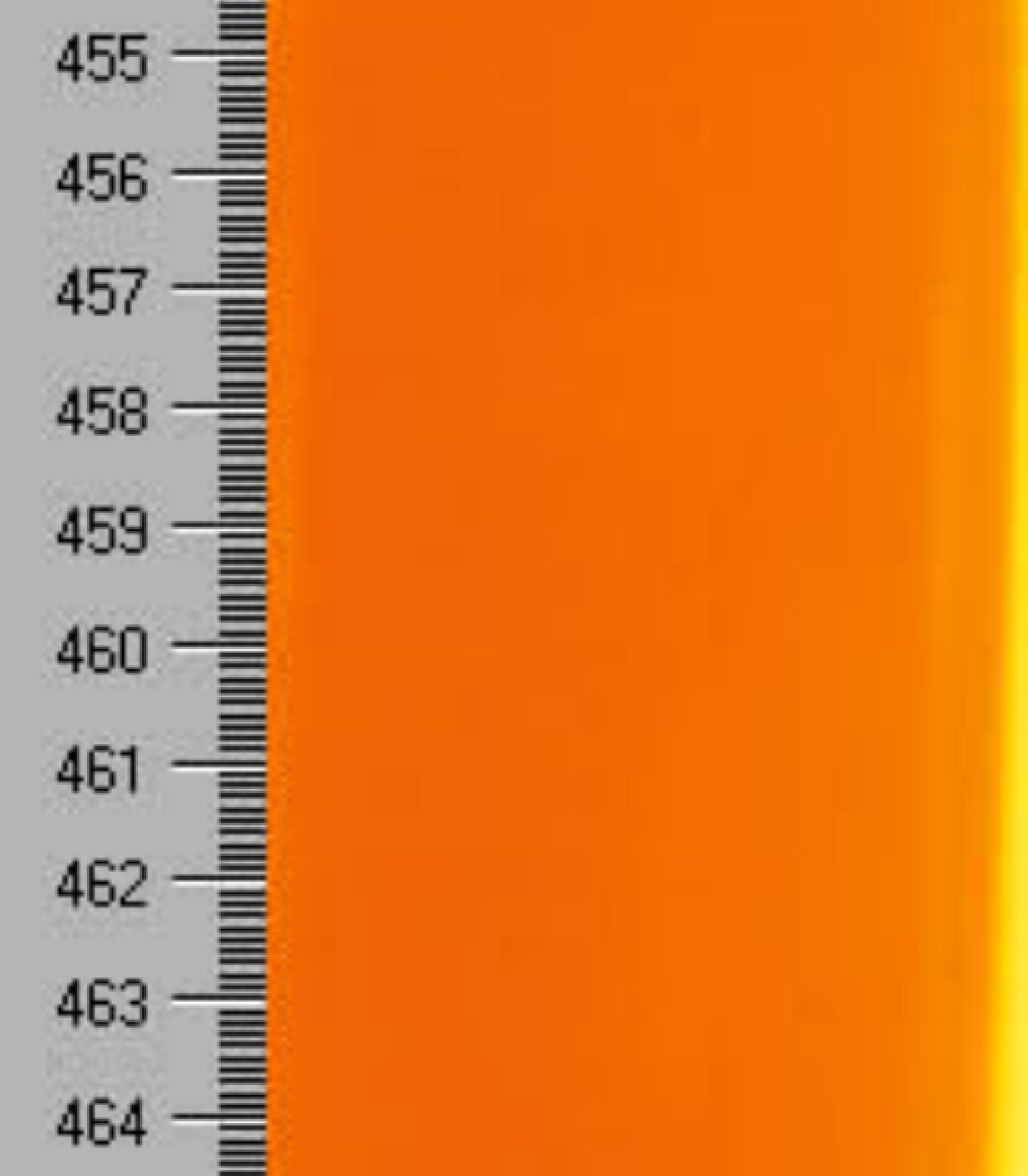

400
401
402
403
404
405
406
407
408
409
410

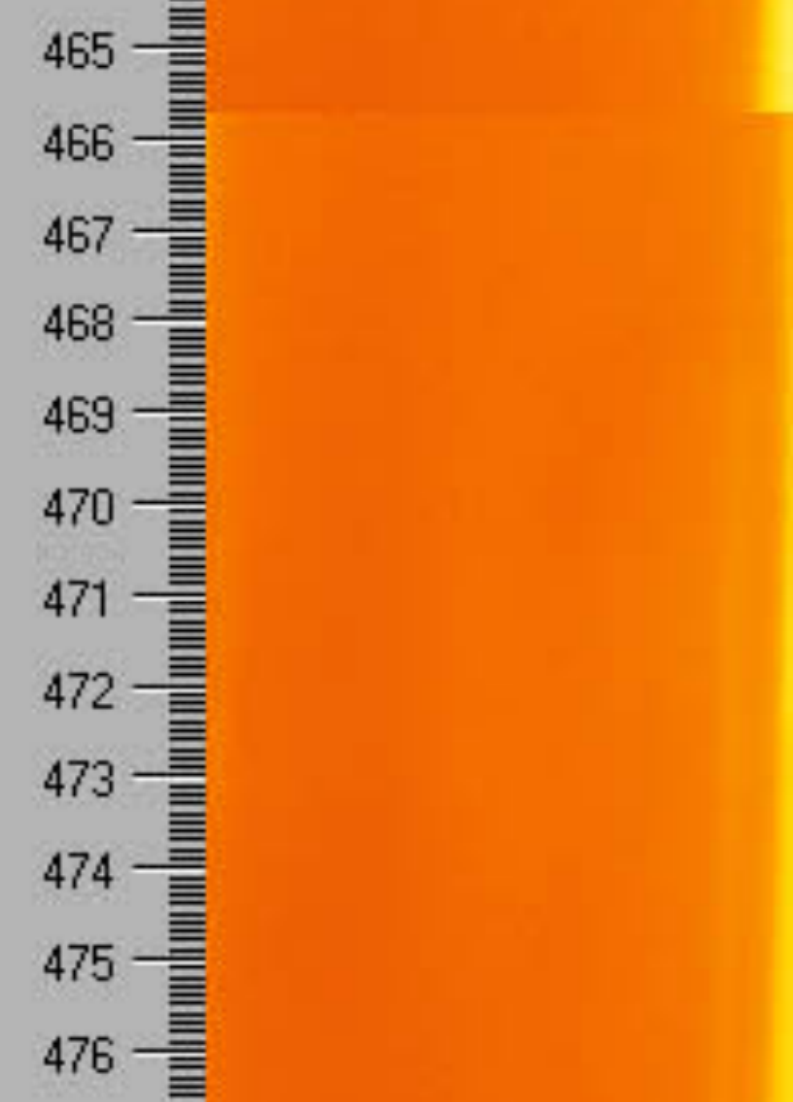

411
412
413
414
415
416
417
418
419
420
421

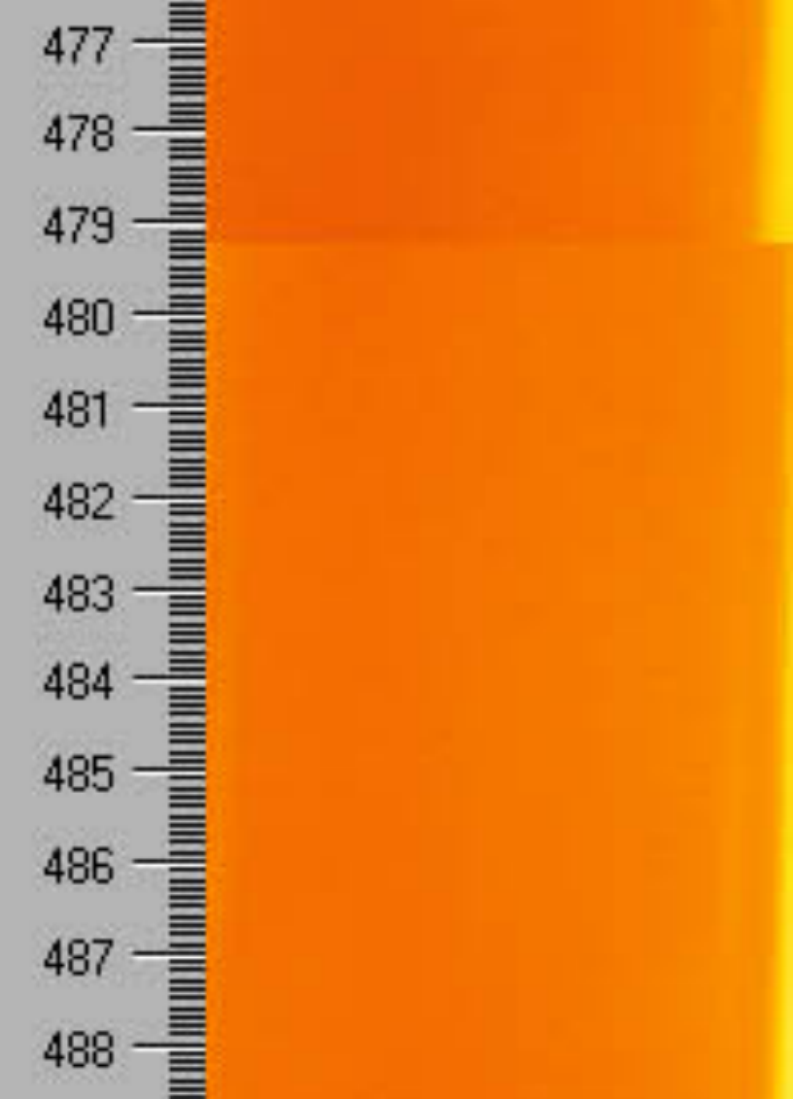

422
423
424
425
426
427
428
429
430
431
432

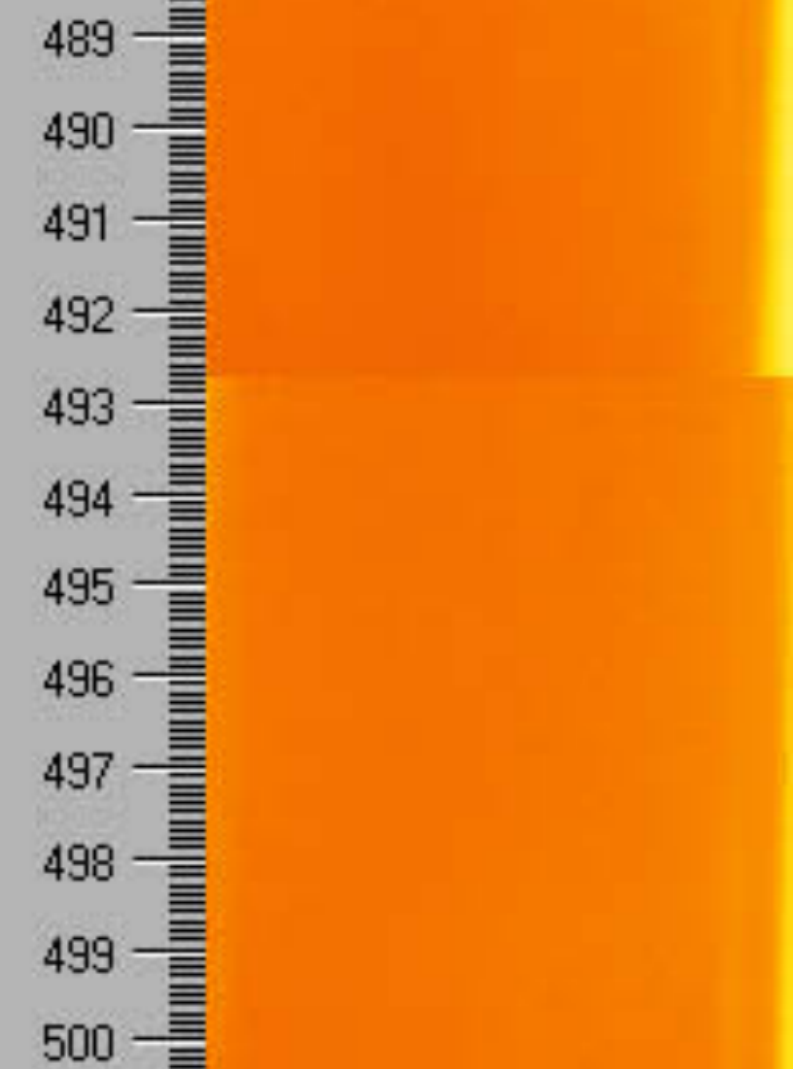

433
434
435
436
437
438
439
440
441
442

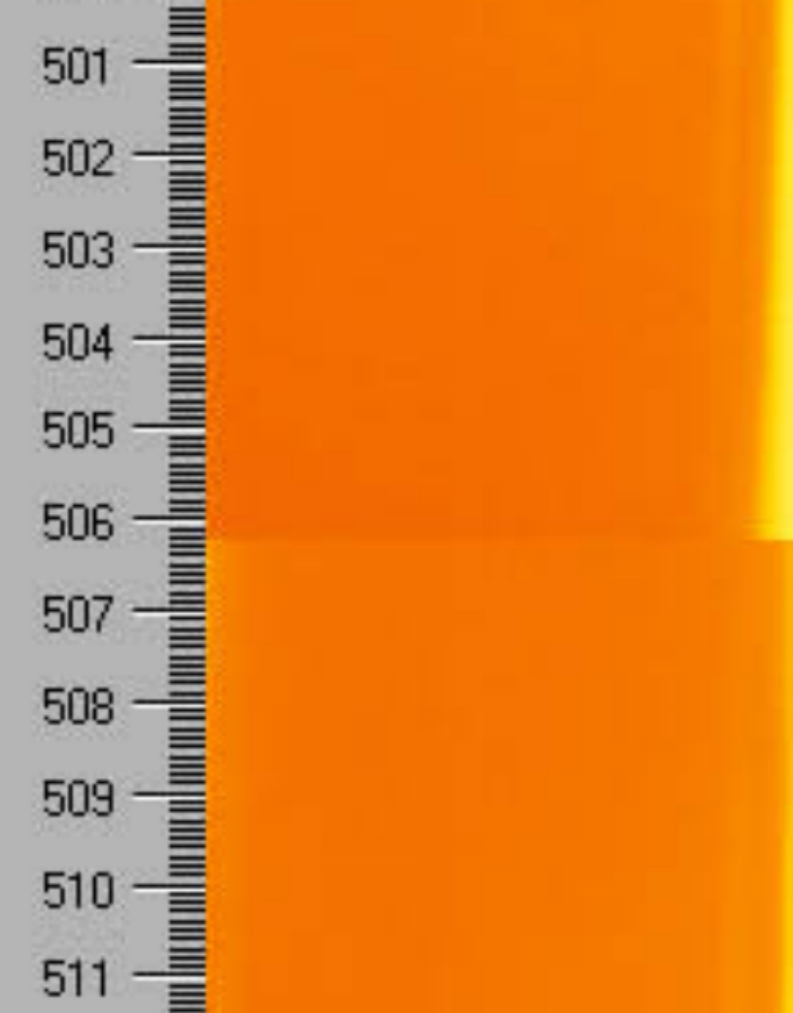

443
444
445
446
447
448
449
450
451
452
453
454

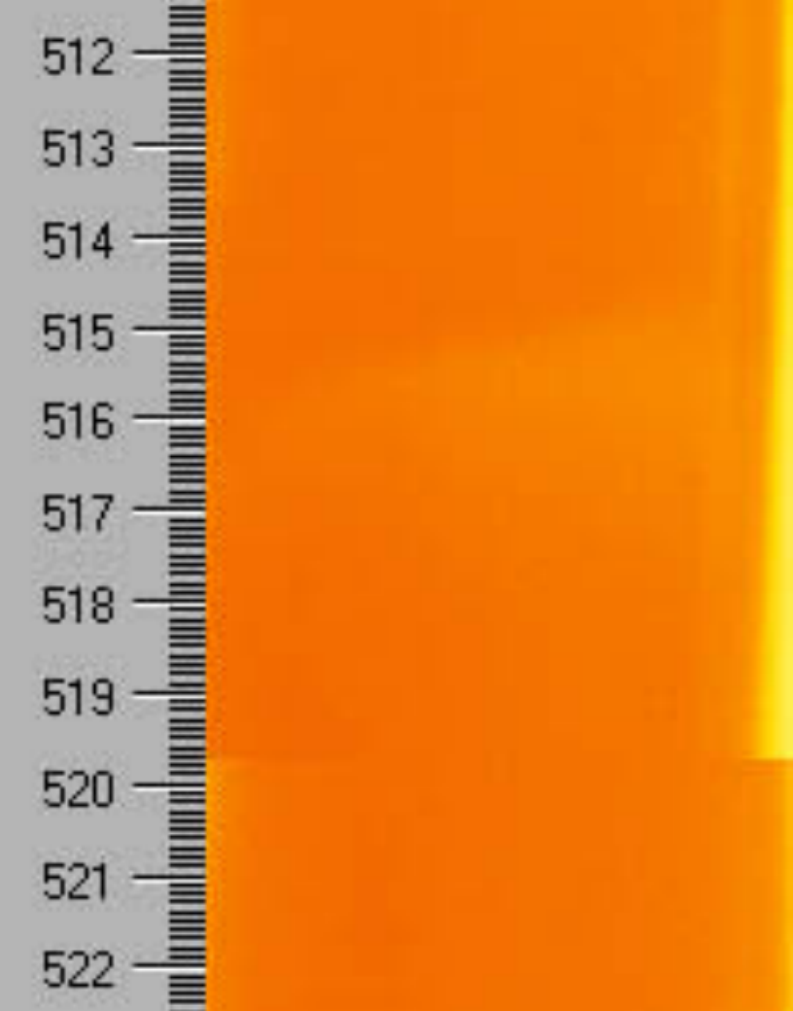

455
456
457
458
459
460
461
462
463
464

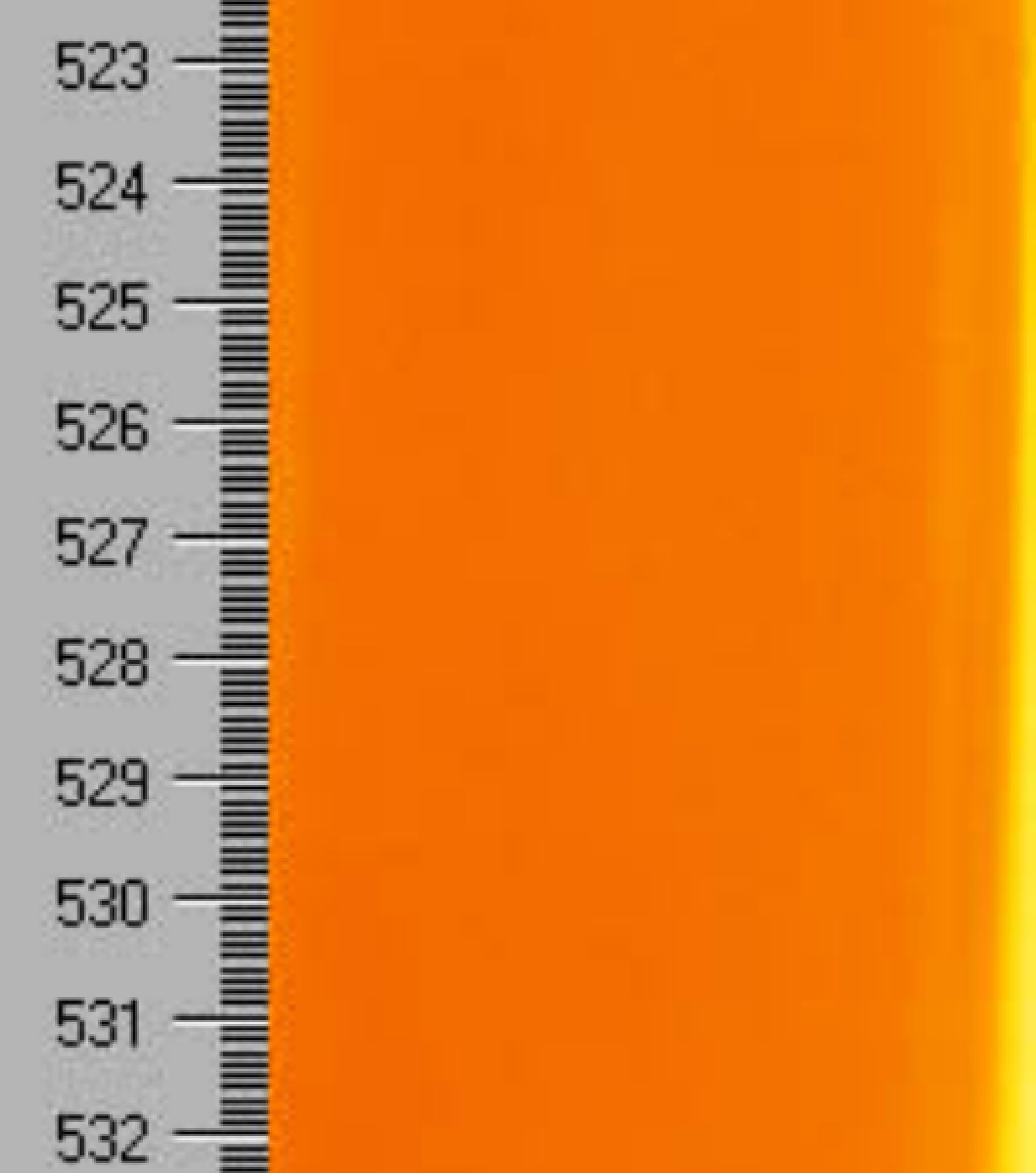

465
466
467
468
469
470
471
472
473
474
475
476

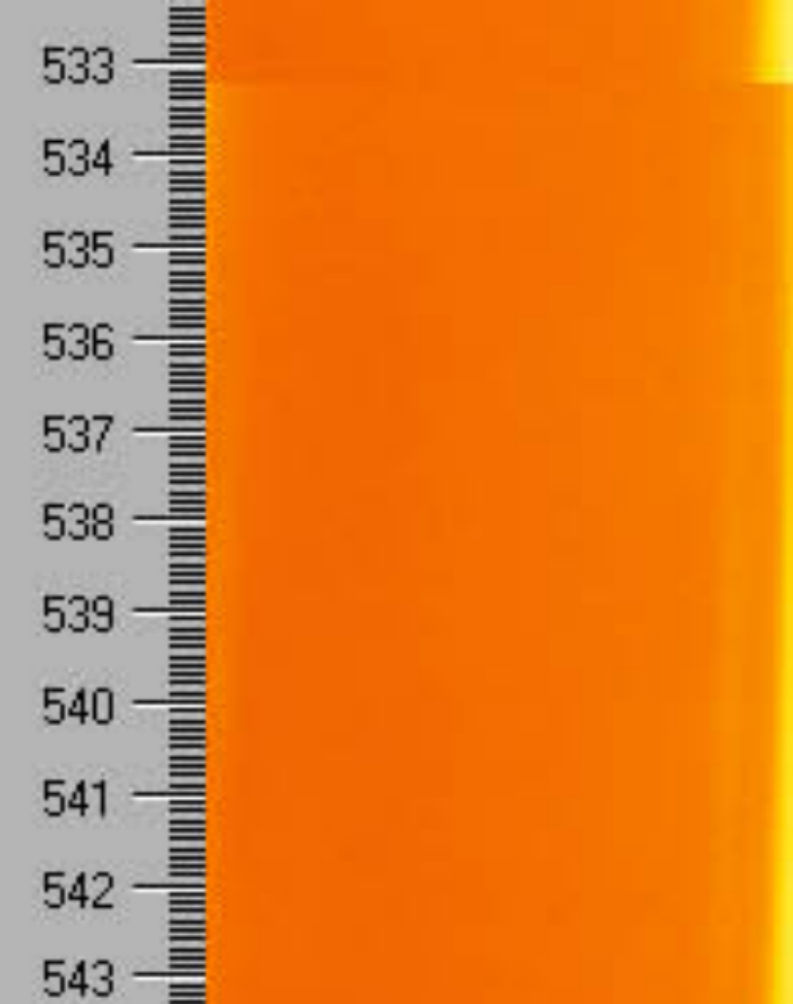

477
478
479
480
481
482
483
484
485
486
487
488

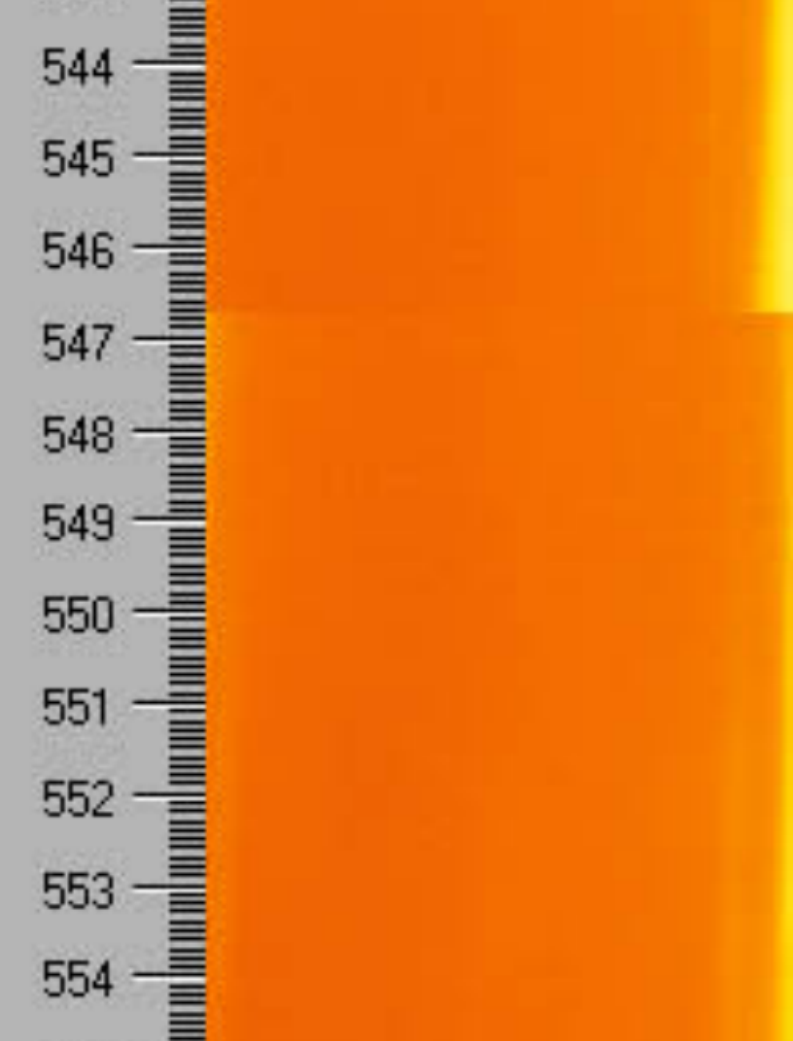

489
490
491
492
493
494
495
496
497
498
499
500

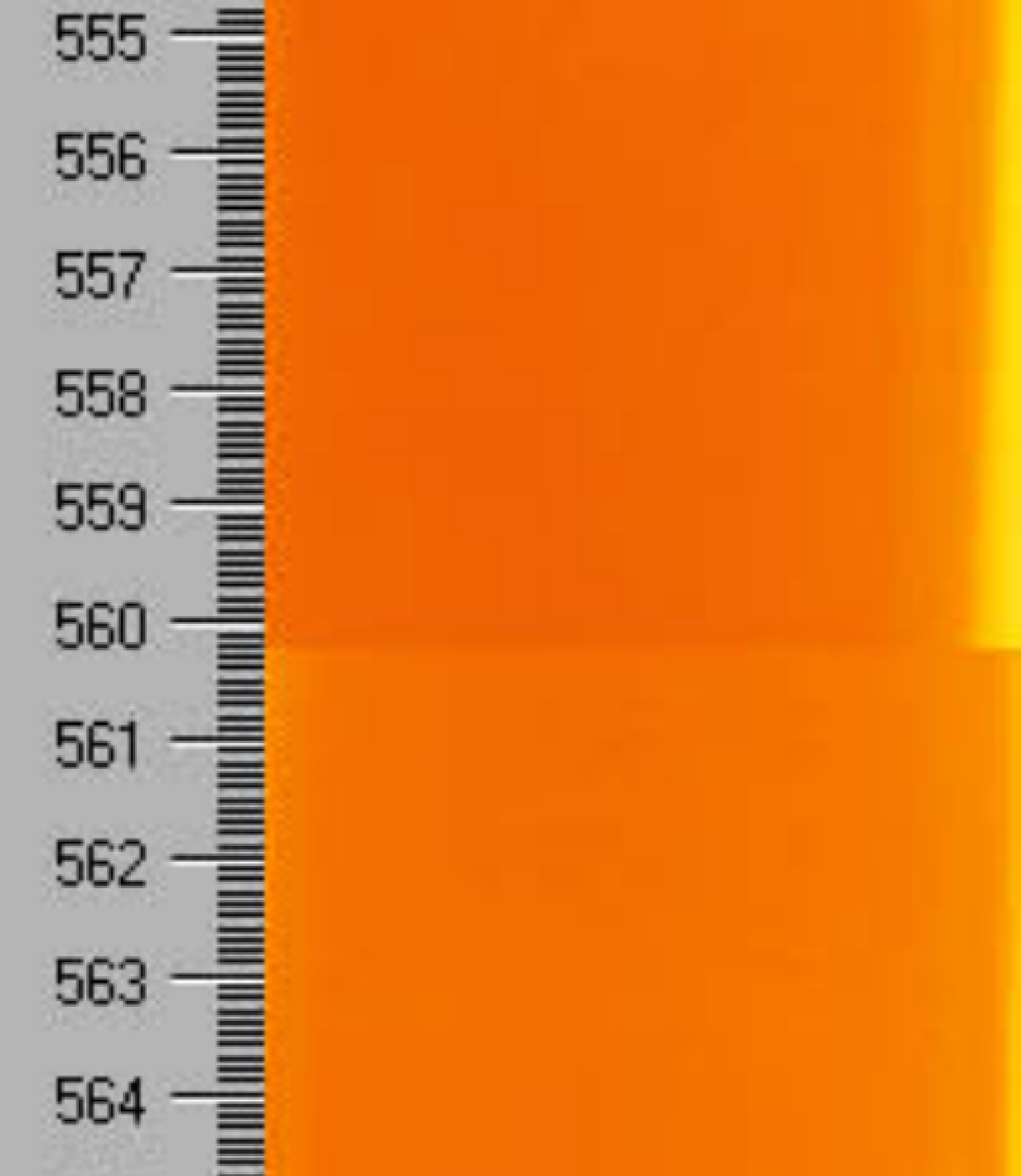

501
502
503
504
505
506
507
508
509
510
511

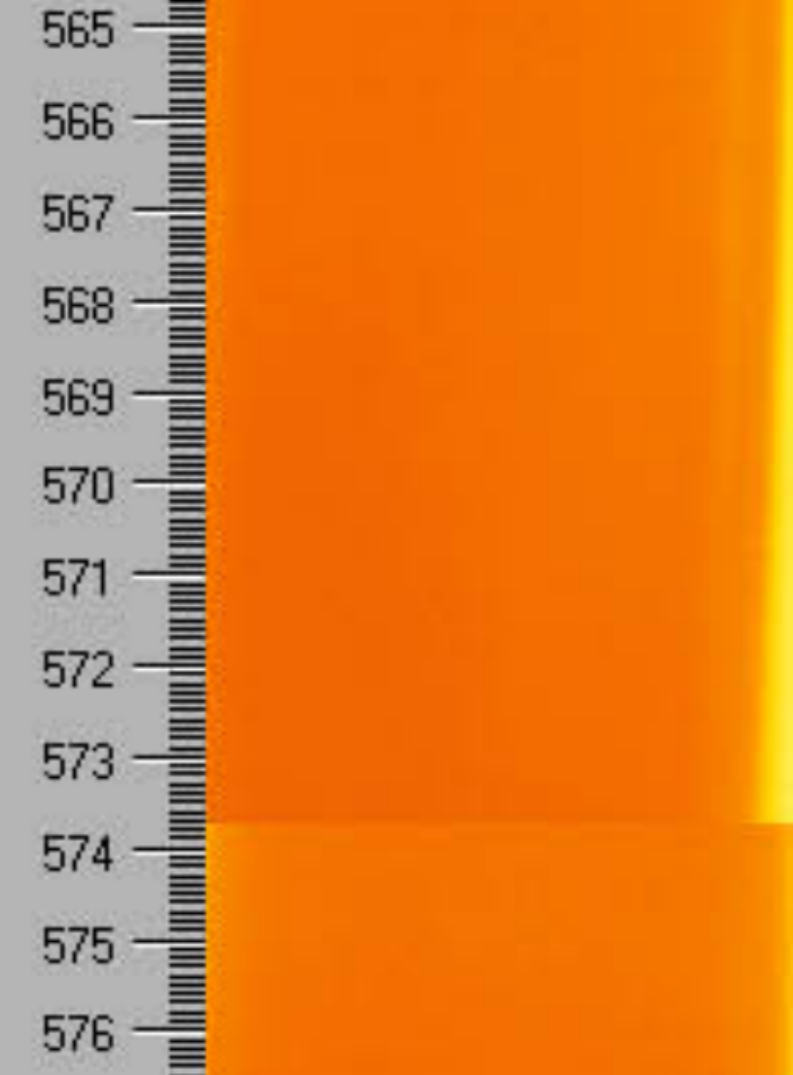

512
513
514
515
516
517
518
519
520
521
522

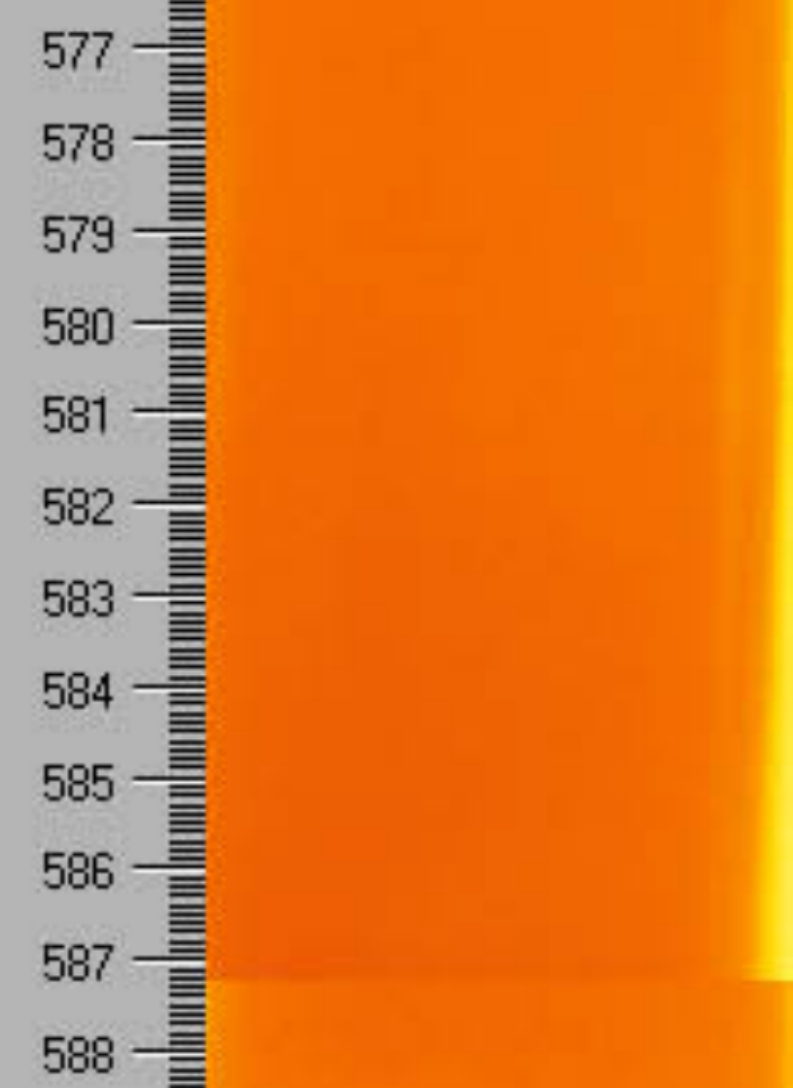

523
524
525
526
527
528
529
530
531
532

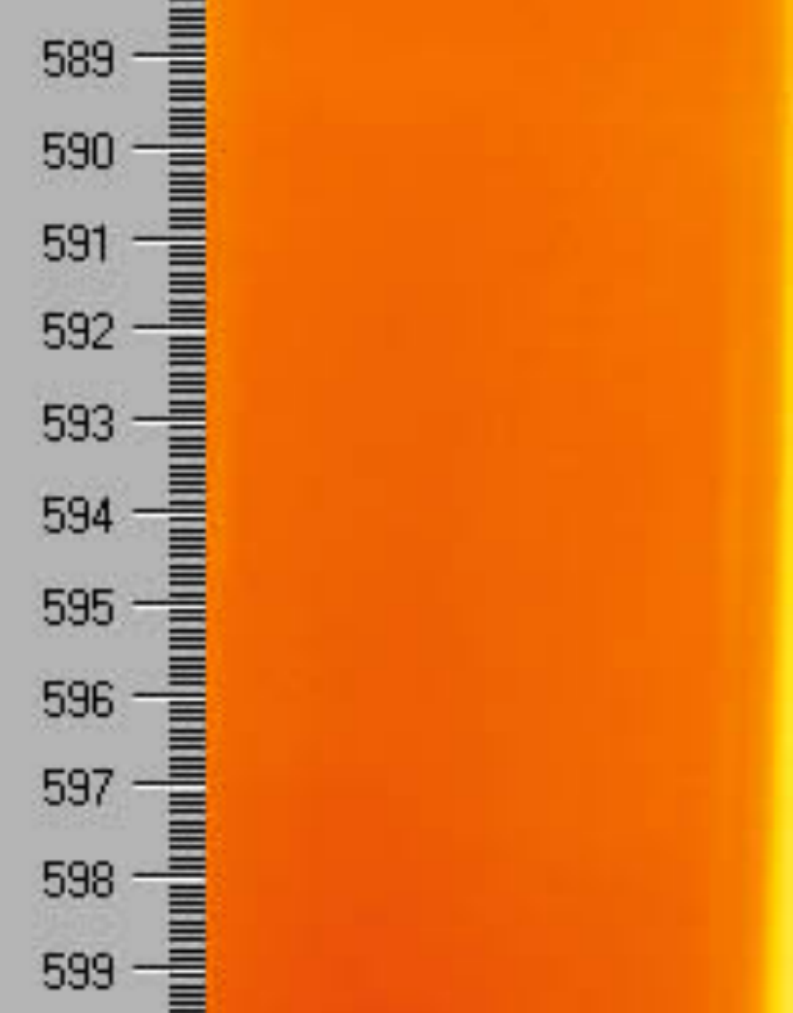

533
534
535
536
537
538
539
540
541
542
543


544
545
546
547
548
549
550
551
552
553
554

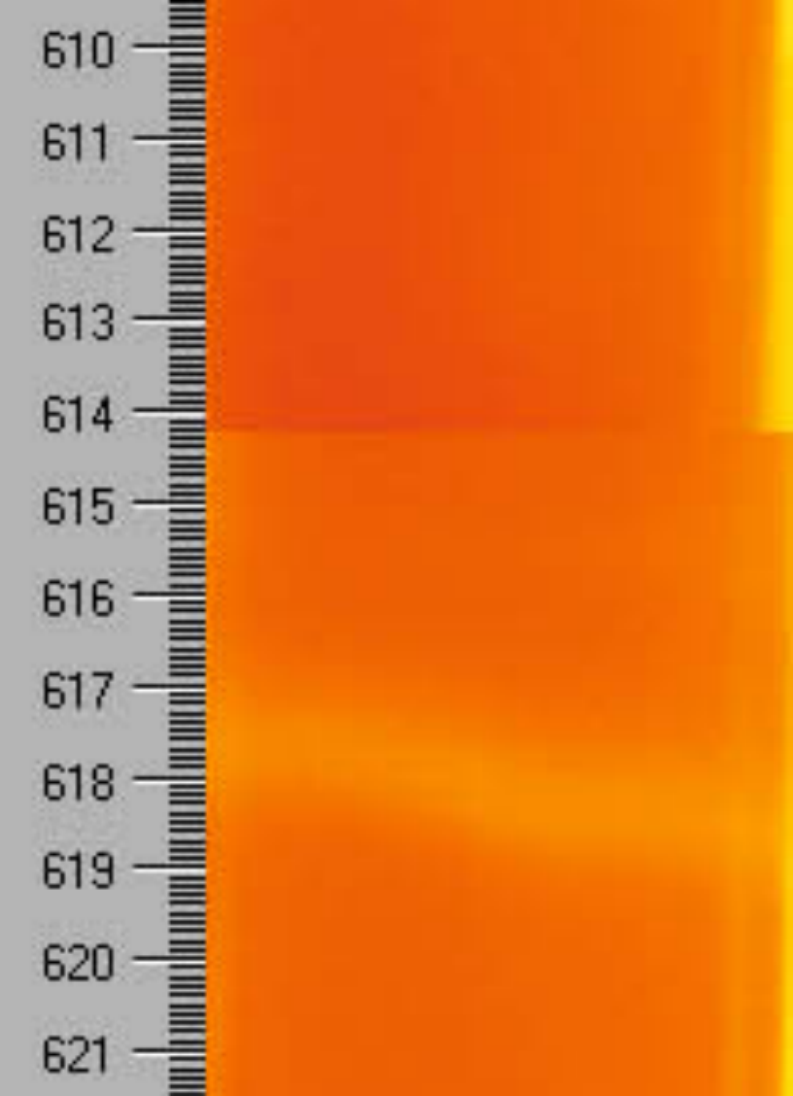

555
556
557
558
559
560
561
562
563
564

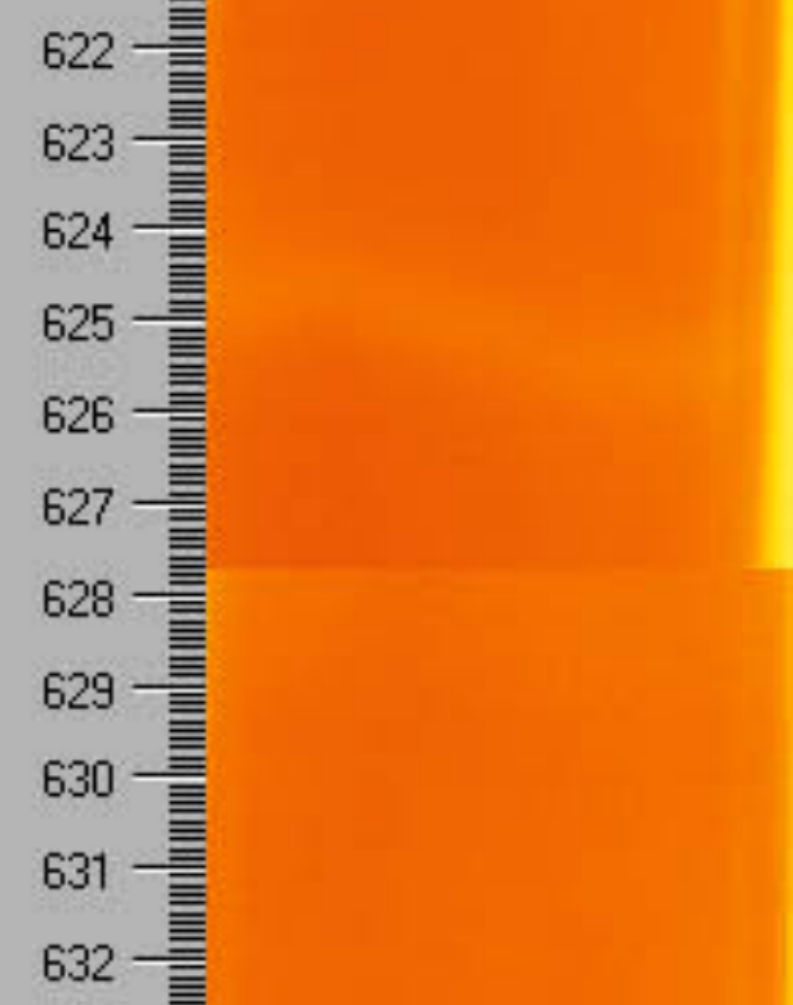

565
566
567
568
569
570
571
572
573
574
575
576

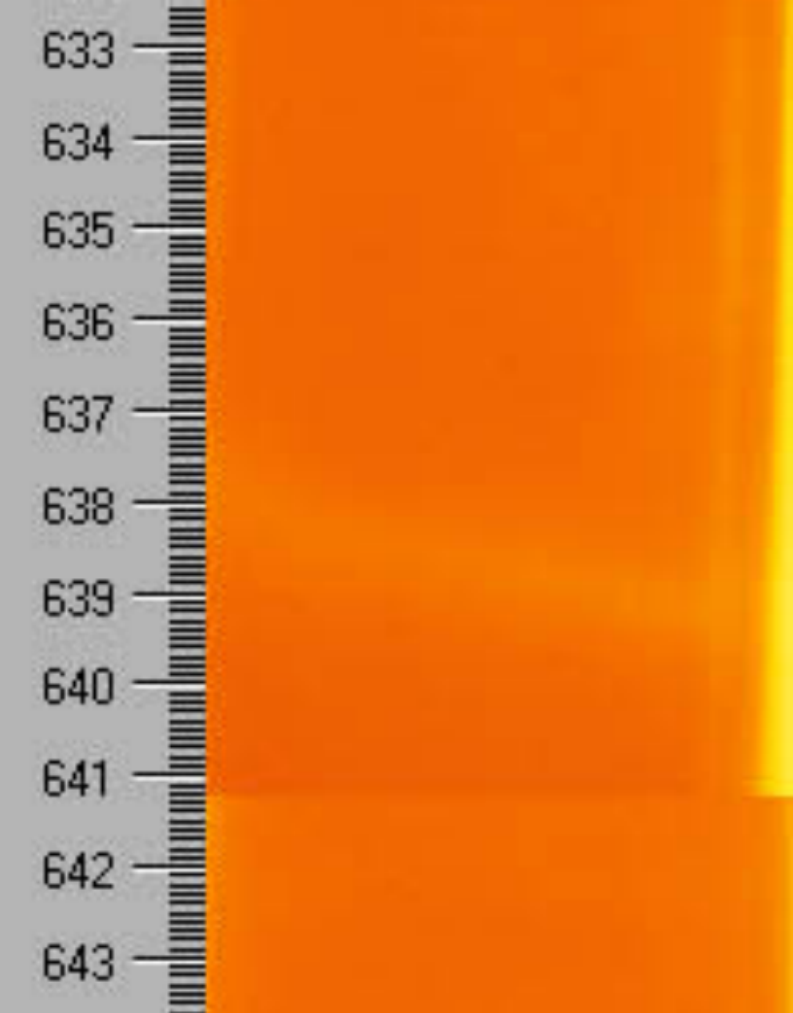

577
578
579
580
581
582
583
584
585
586
587
588

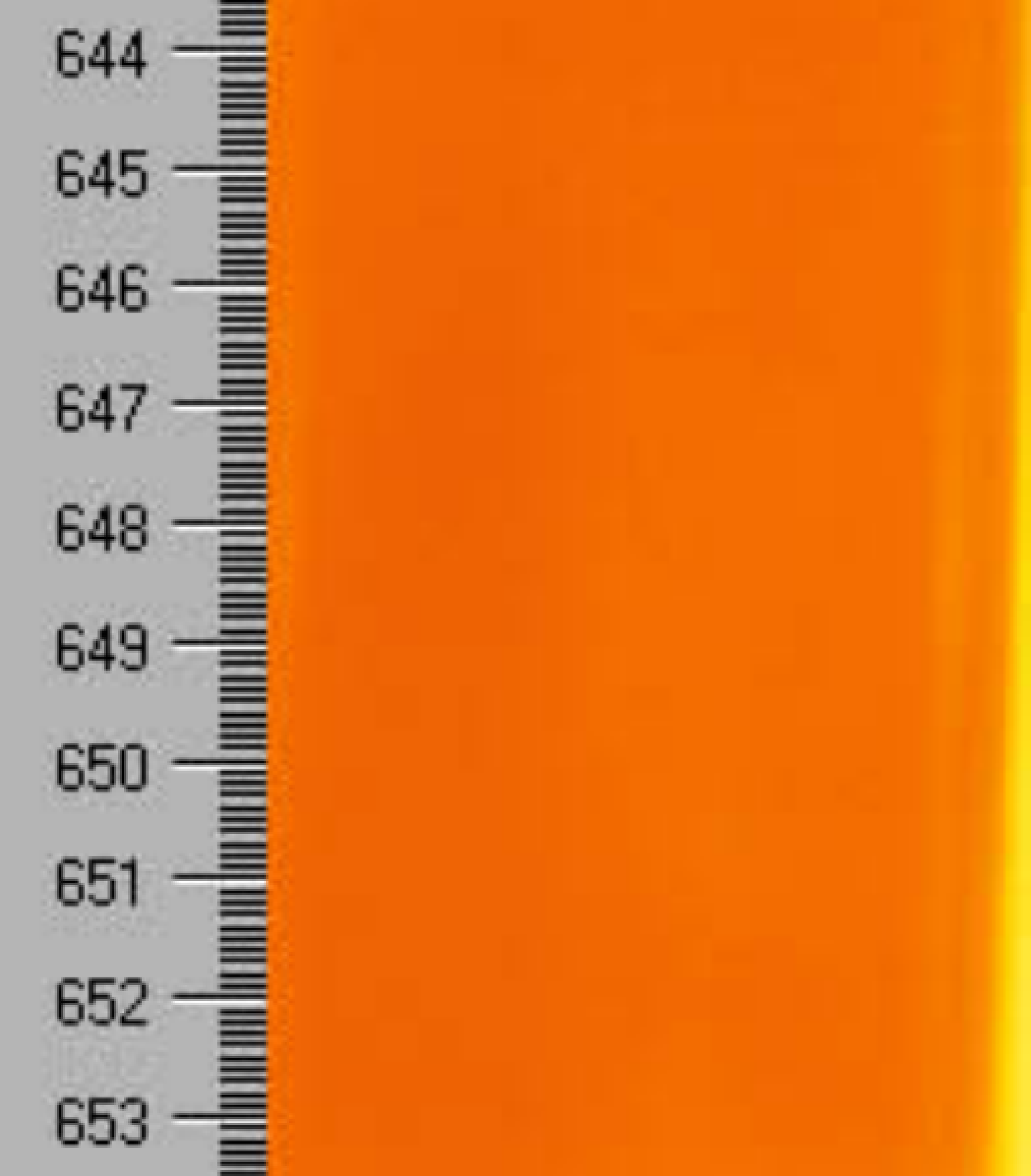

589
590
591
592
593
594
595
596
597
598
599

600
601
602
603
604
605
606
607
608
609

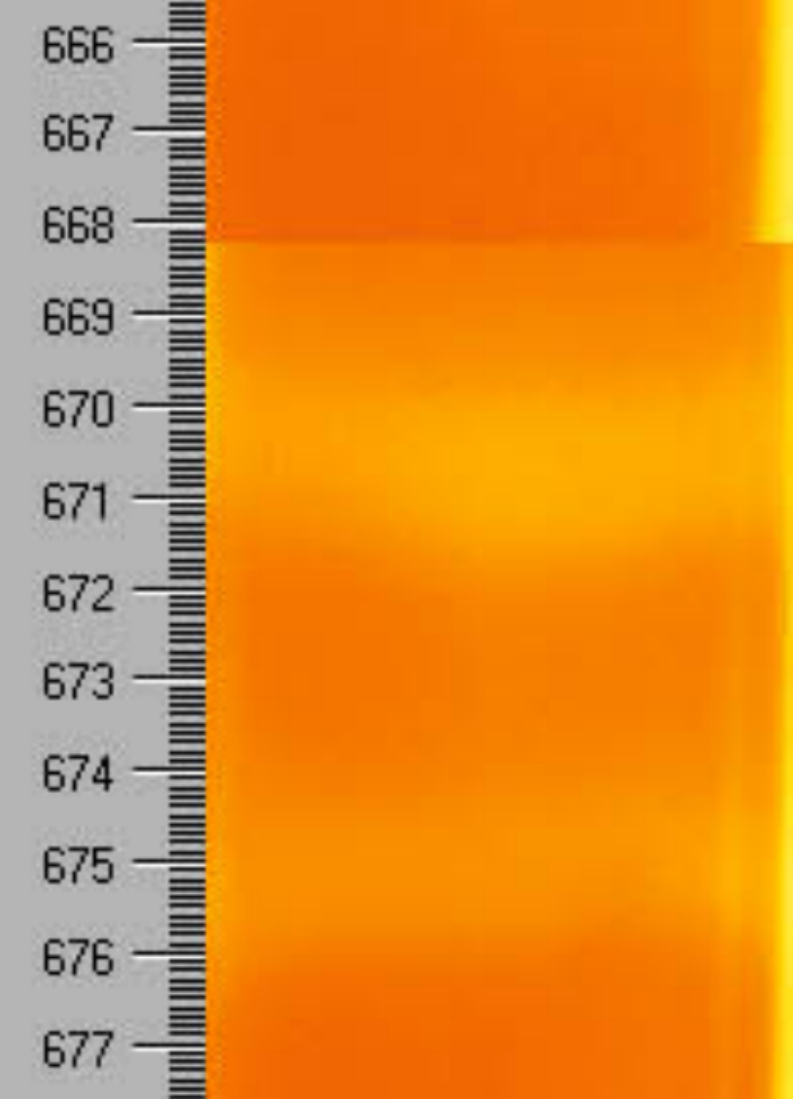

610
611
612
613
614
615
616
617
618
619
620
621

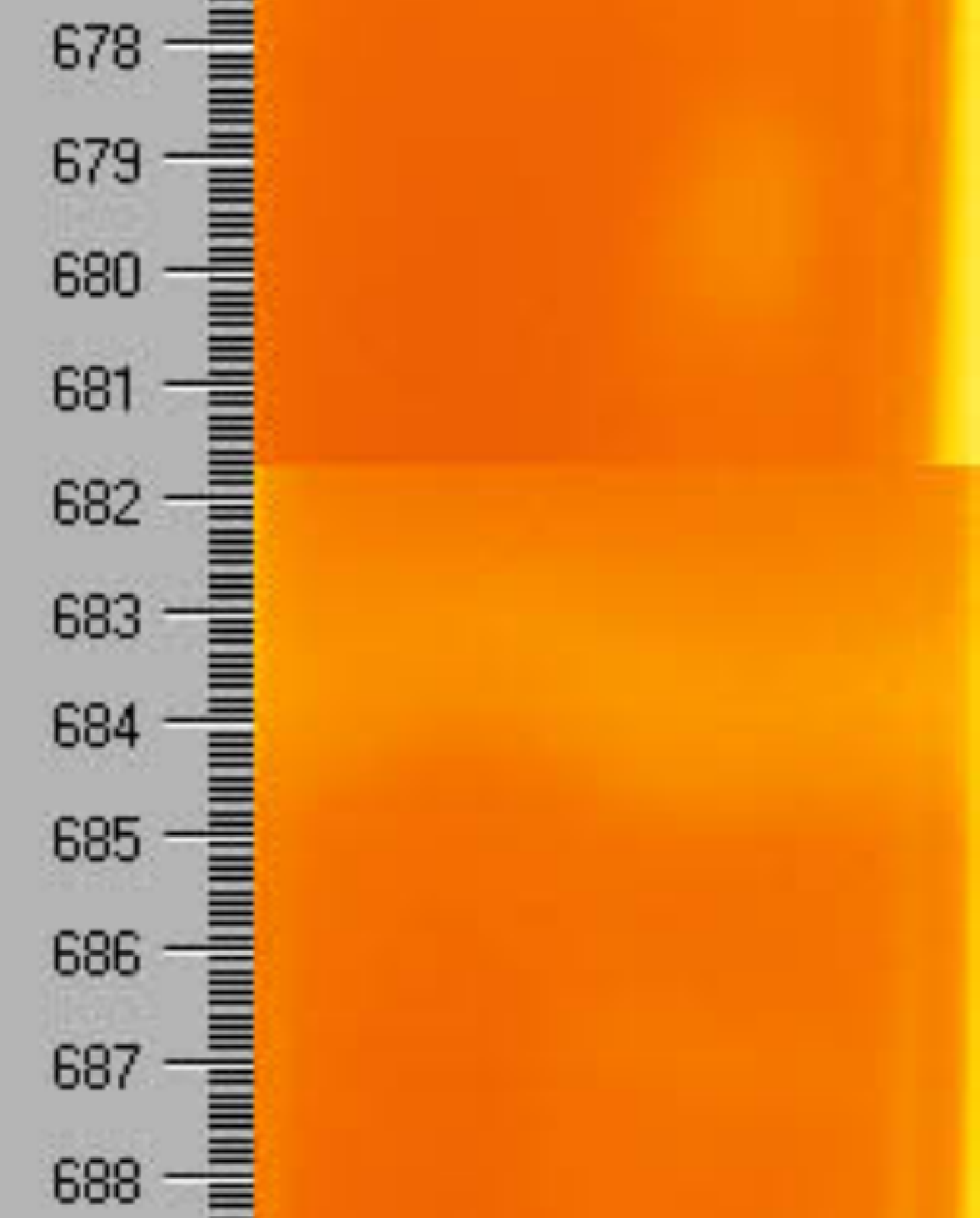

622
623
624
625
626
627
628
629
630
631
632

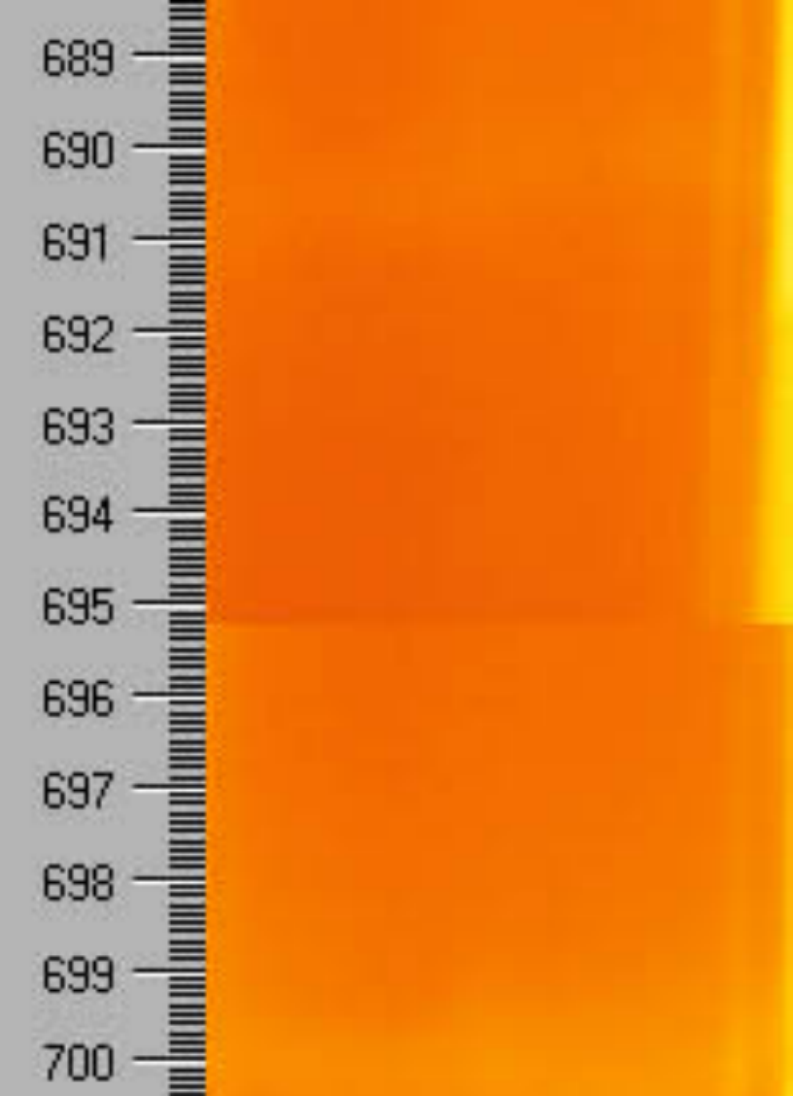

633
634
635
636
637
638
639
640
641
642
643

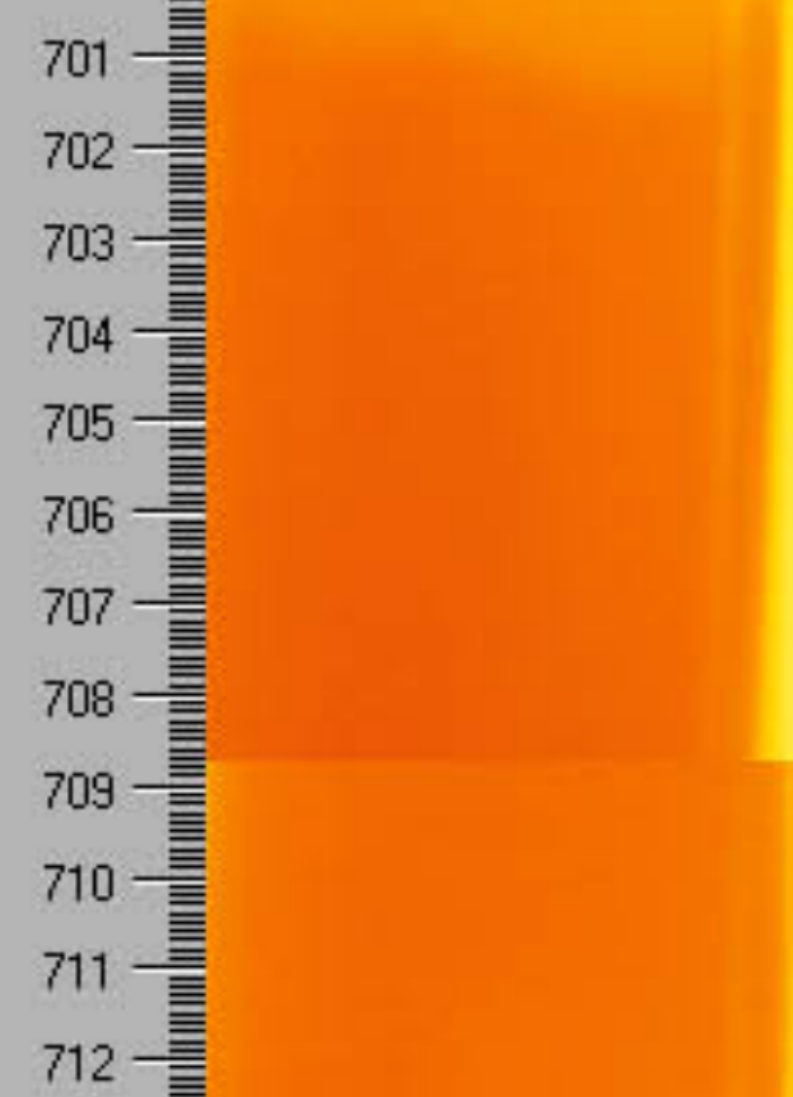

644
645
646
647
648
649
650
651
652
653

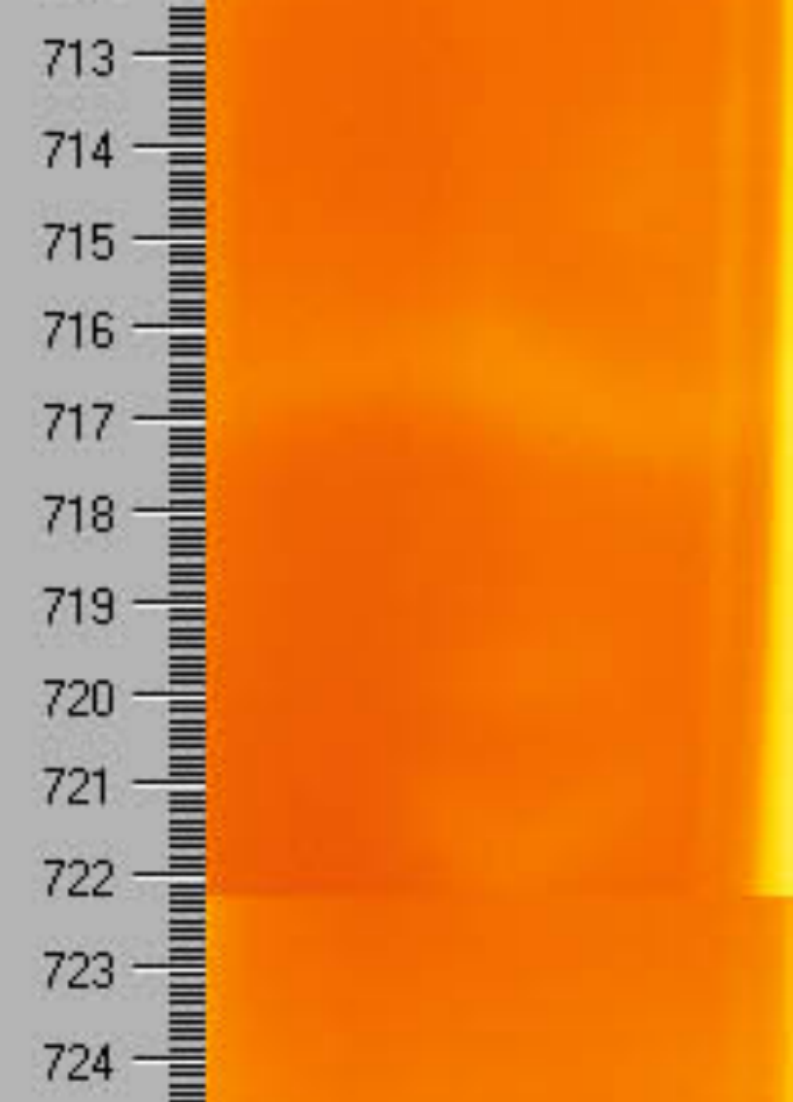
654
655
656
657
658
659
660
661
662
663
664
665

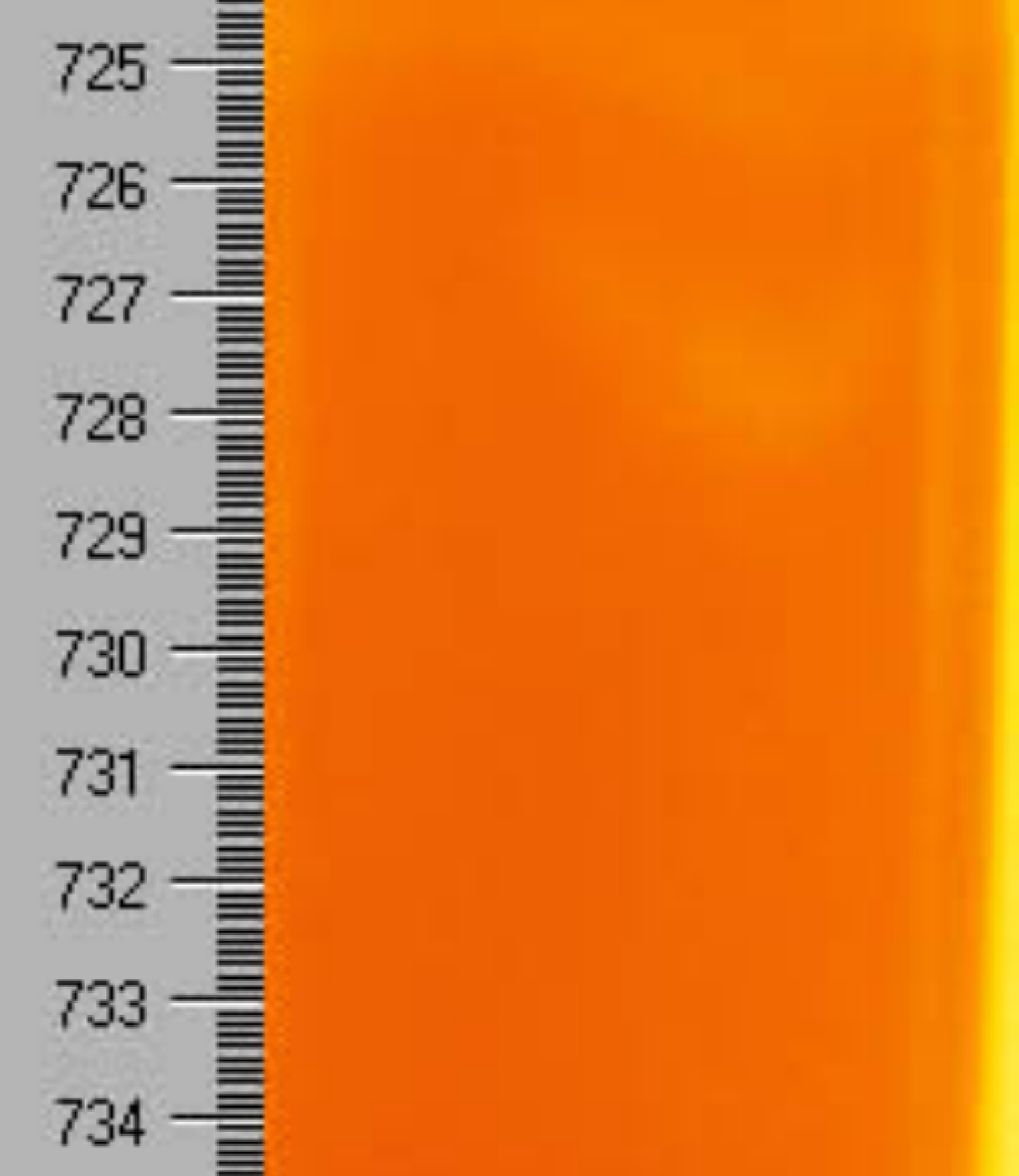

666
667
668
669
670
671
672
673
674
675
676
677


678
679
680
681
682
683
684
685
686
687
688

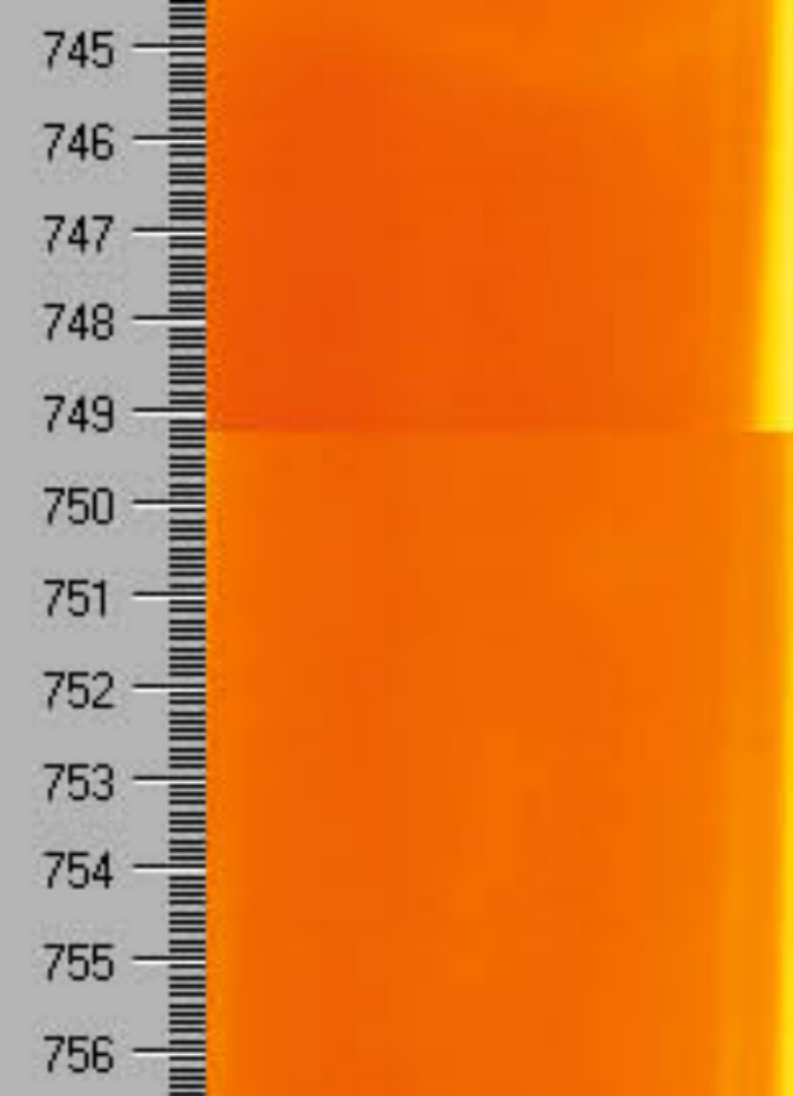

689
690
691
692
693
694
695
696
697
698
699
700

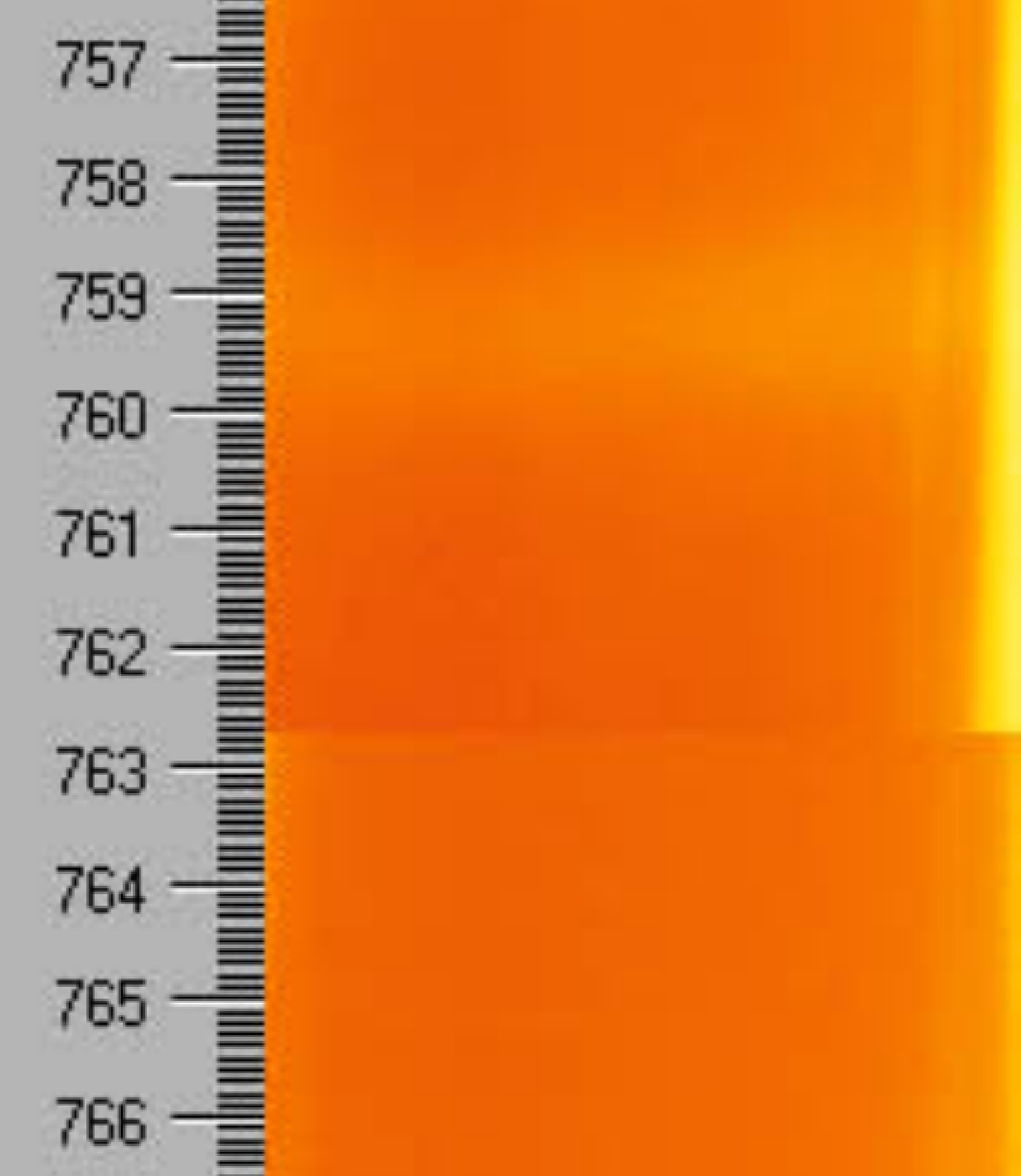

701
702
703
704
705
706
707
708
709
710
711
712

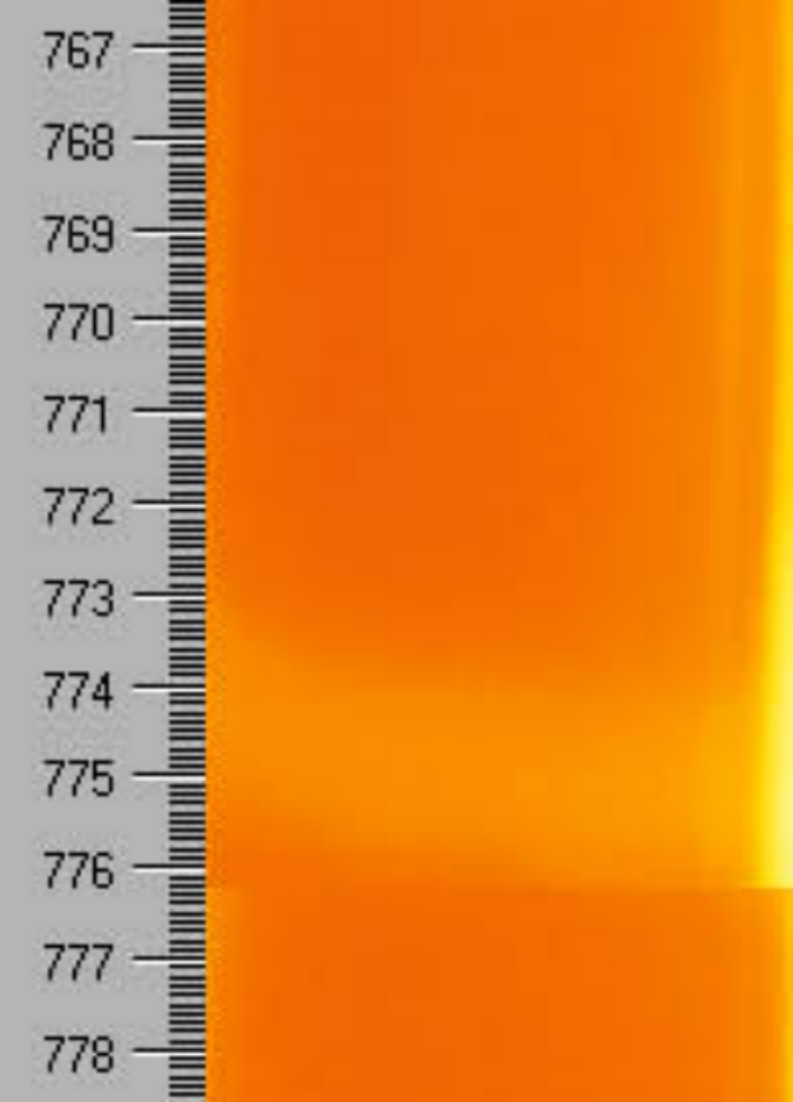

713
714
715
716
717
718
719
720
721
722
723
724

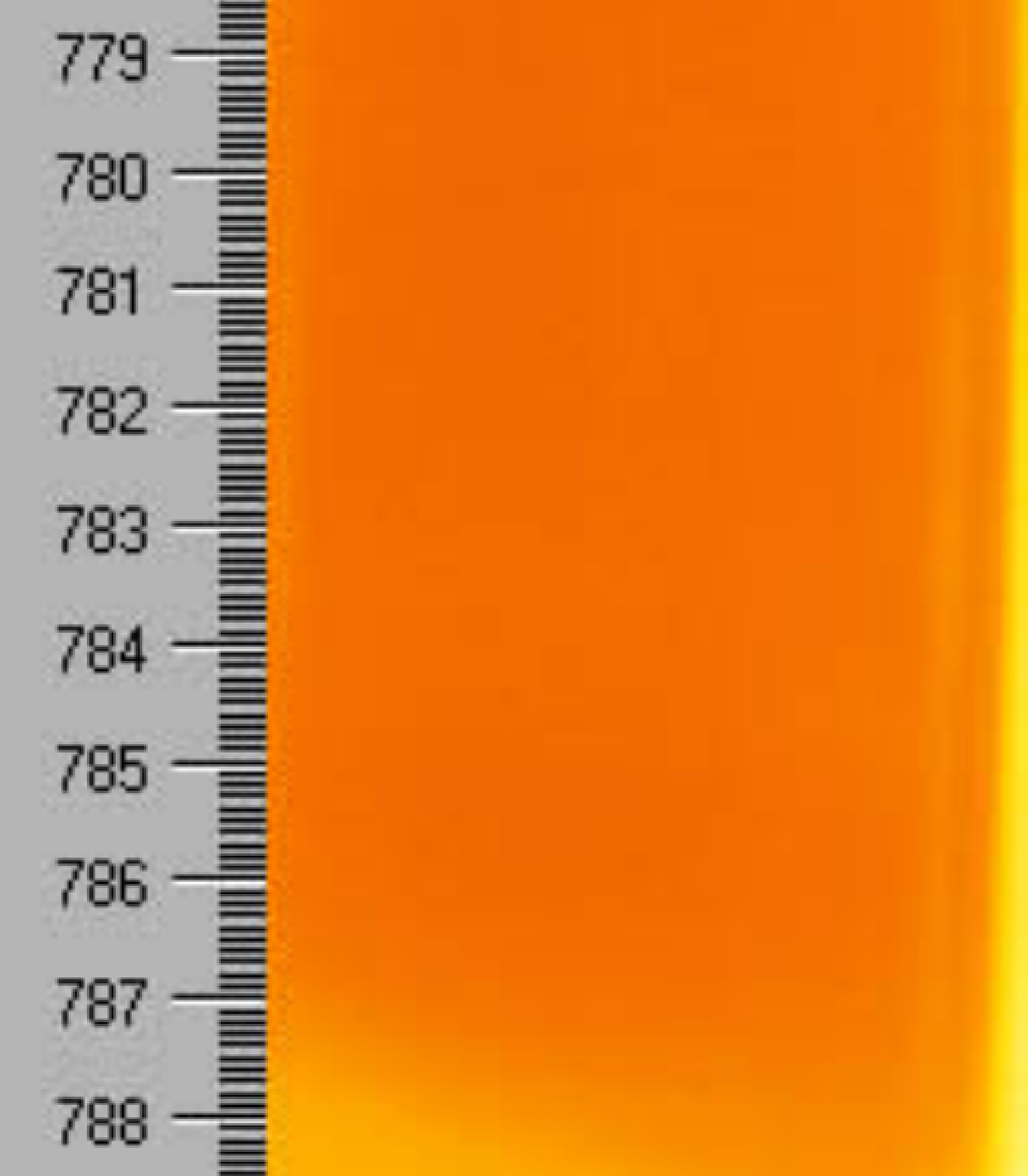

725
726
727
728
729
730
731
732
733
734

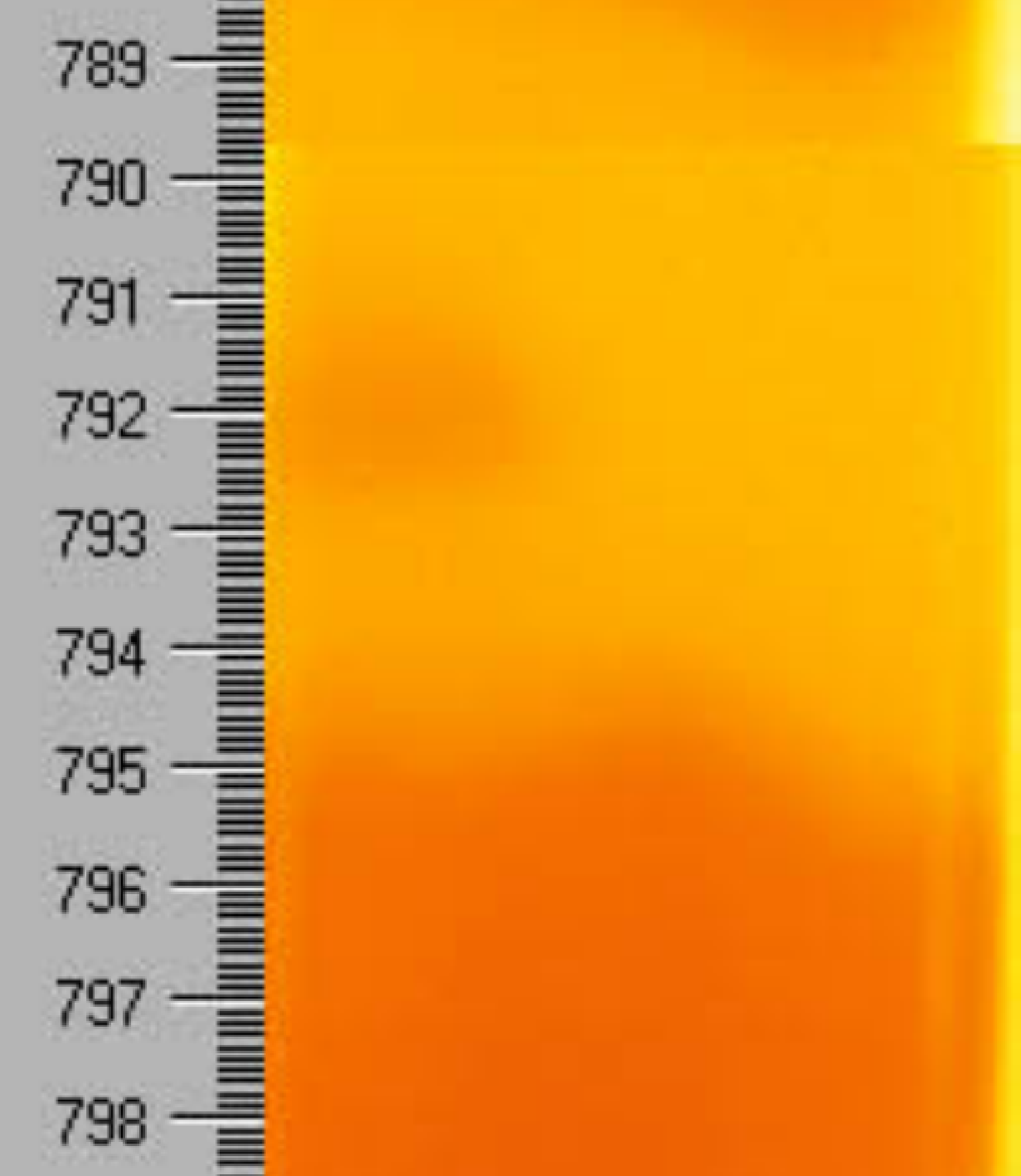
735
736
737
738
739
740
741
742
743
744

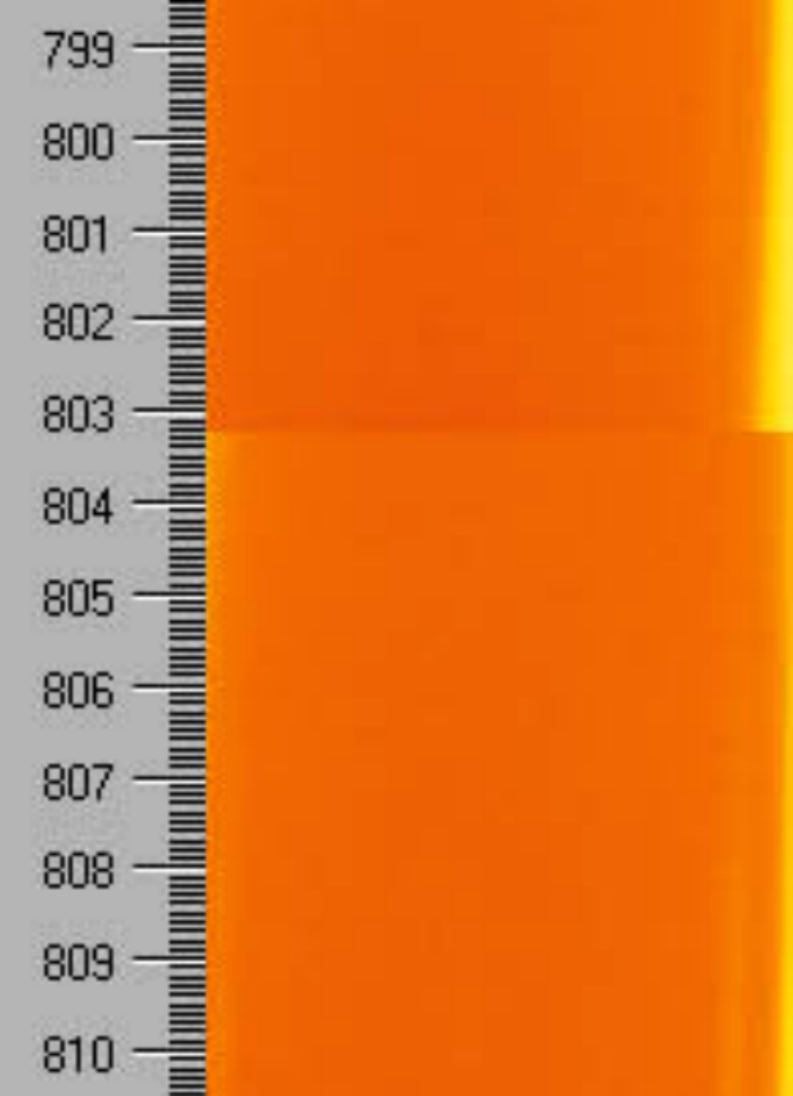

745
746
747
748
749
750
751
752
753
754
755
756

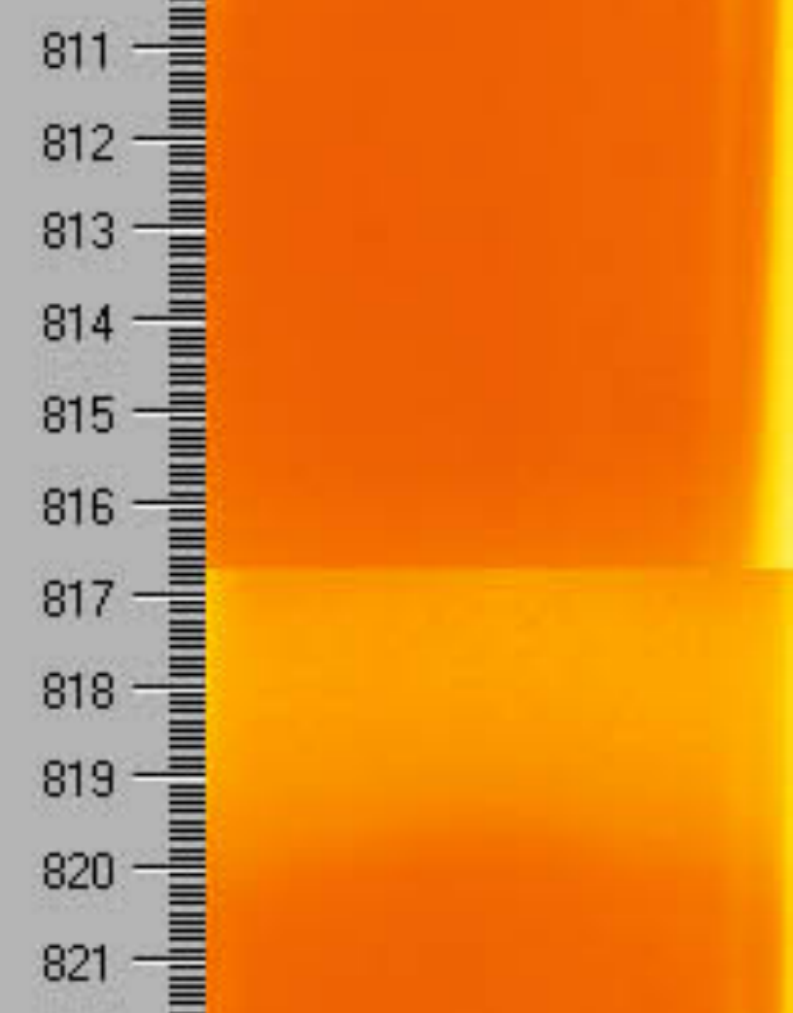

757
758
759
760
761
762
763
764
765
766


767
768
769
770
771
772
773
774
775
776
777
778

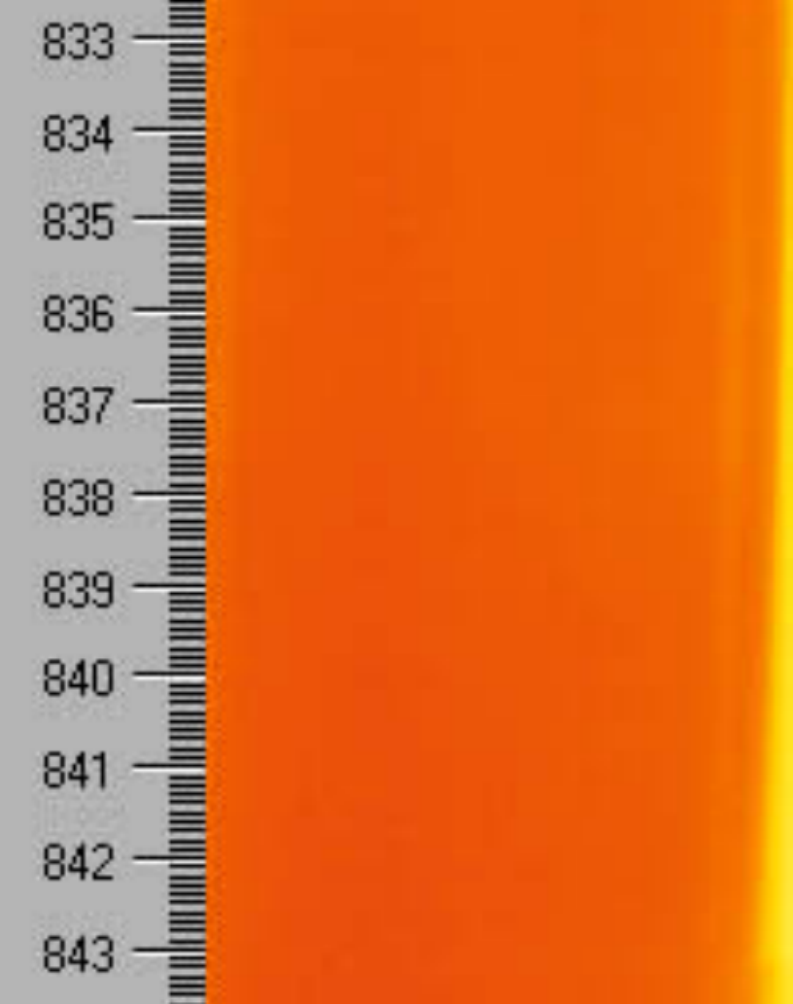

779
780
781
782
783
784
785
786
787
788


789
790
791
792
793
794
795
796
797
798


799
800
801
802
803
804
805
806
807
808
809
810

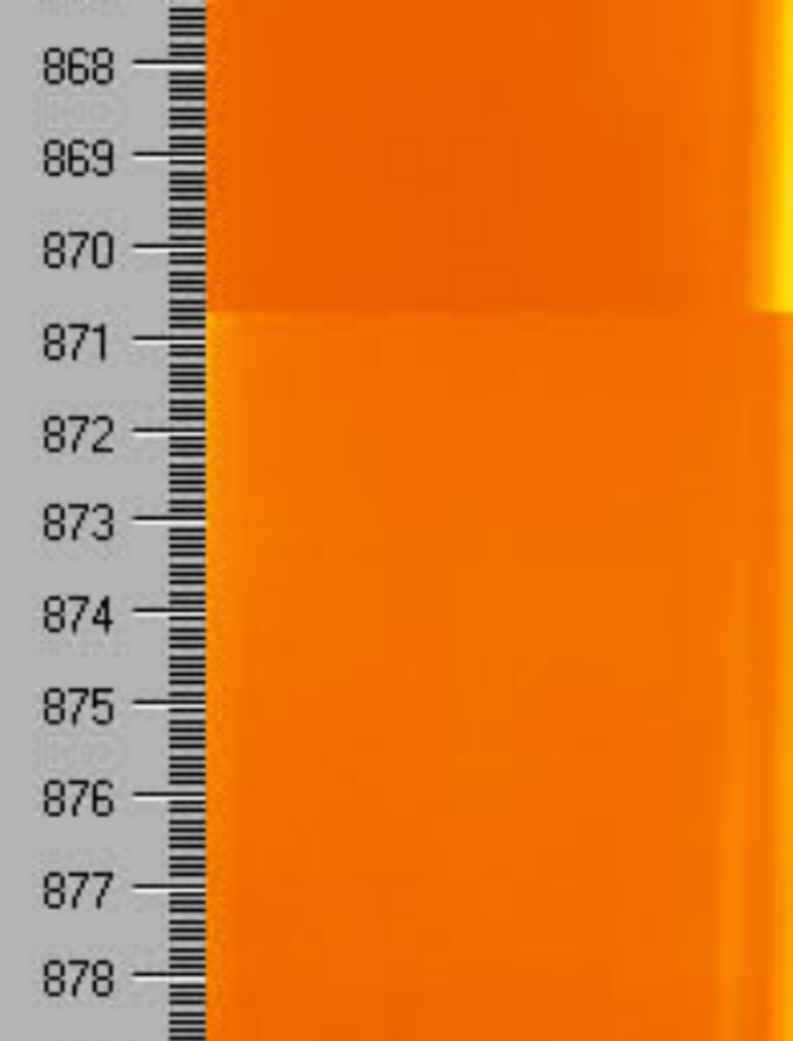

811
812
813
814
815
816
817
818
819
820
821

822
823
824
825
826
827
828
829
830
831
832

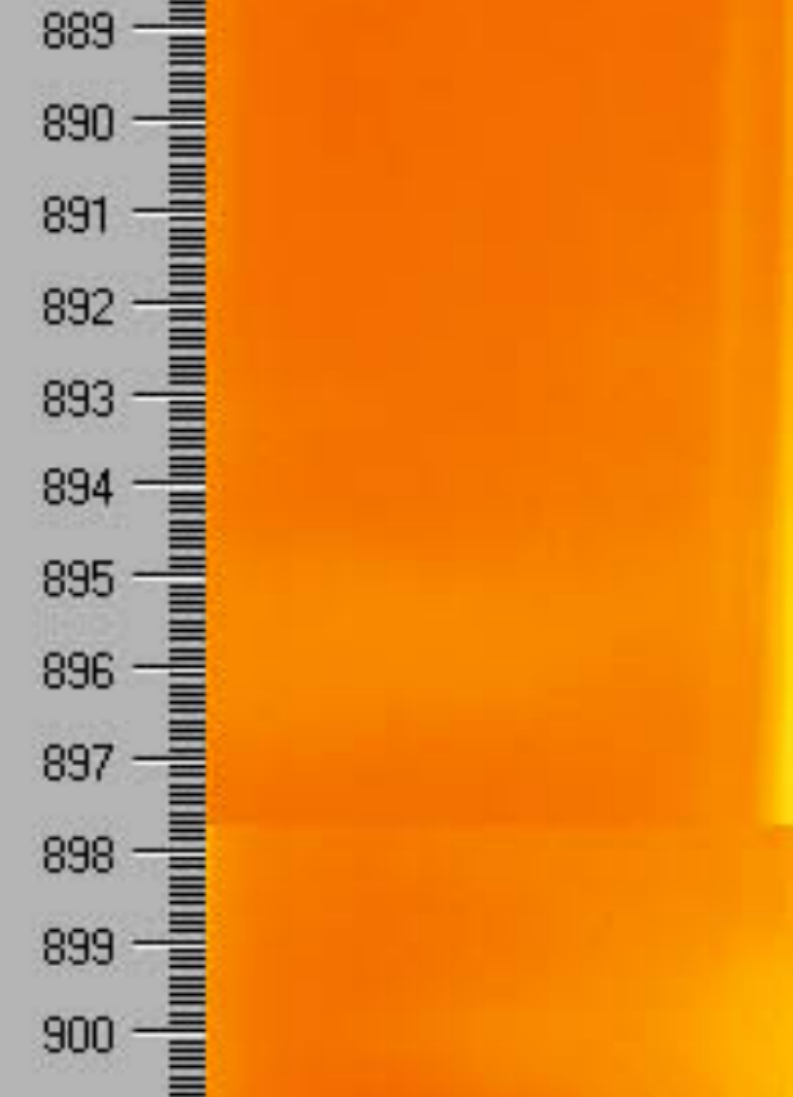

833
834
835
836
837
838
839
840
841
842
843

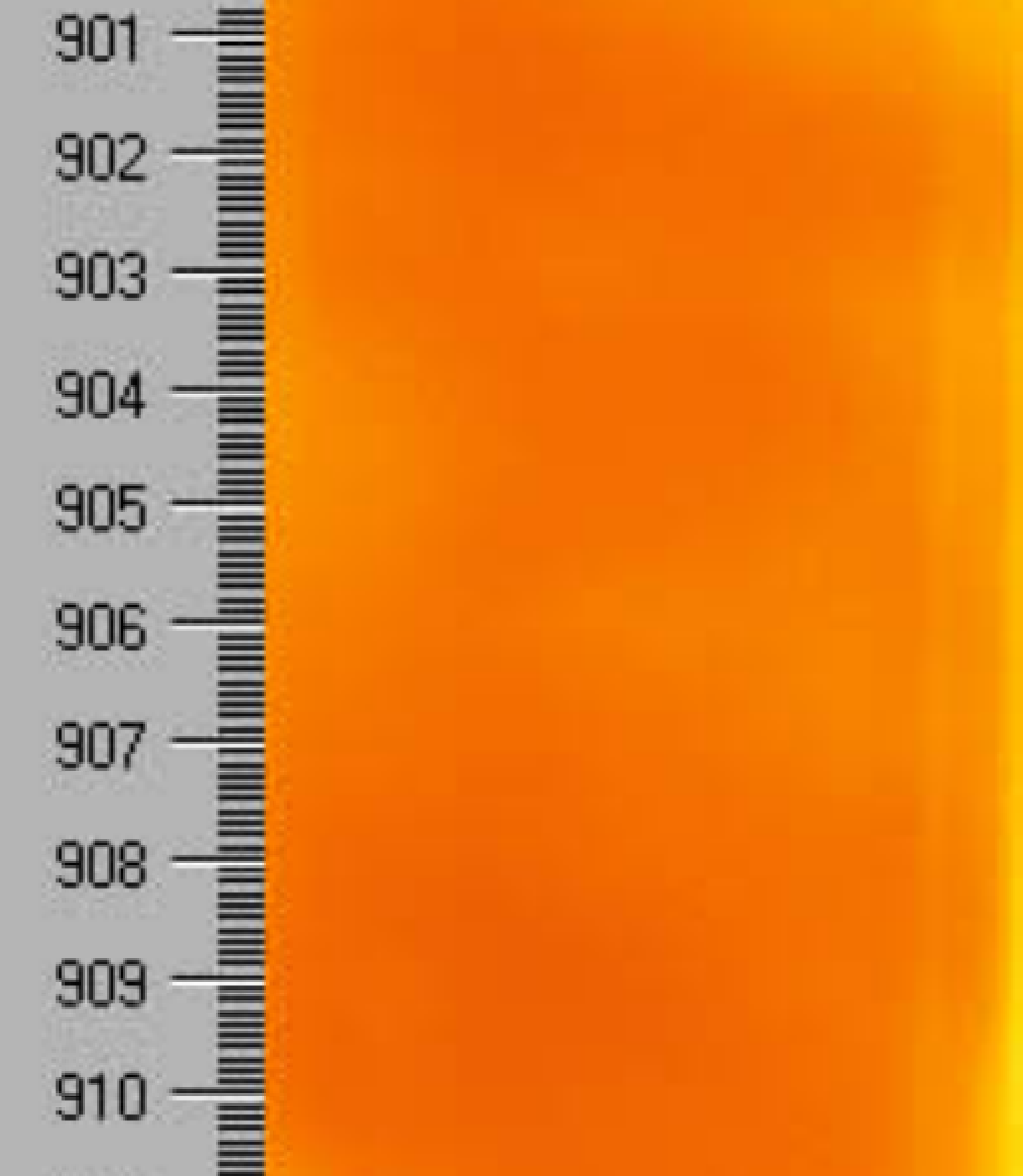
844
845
846
847
848
849
850
851
852
853
854
855

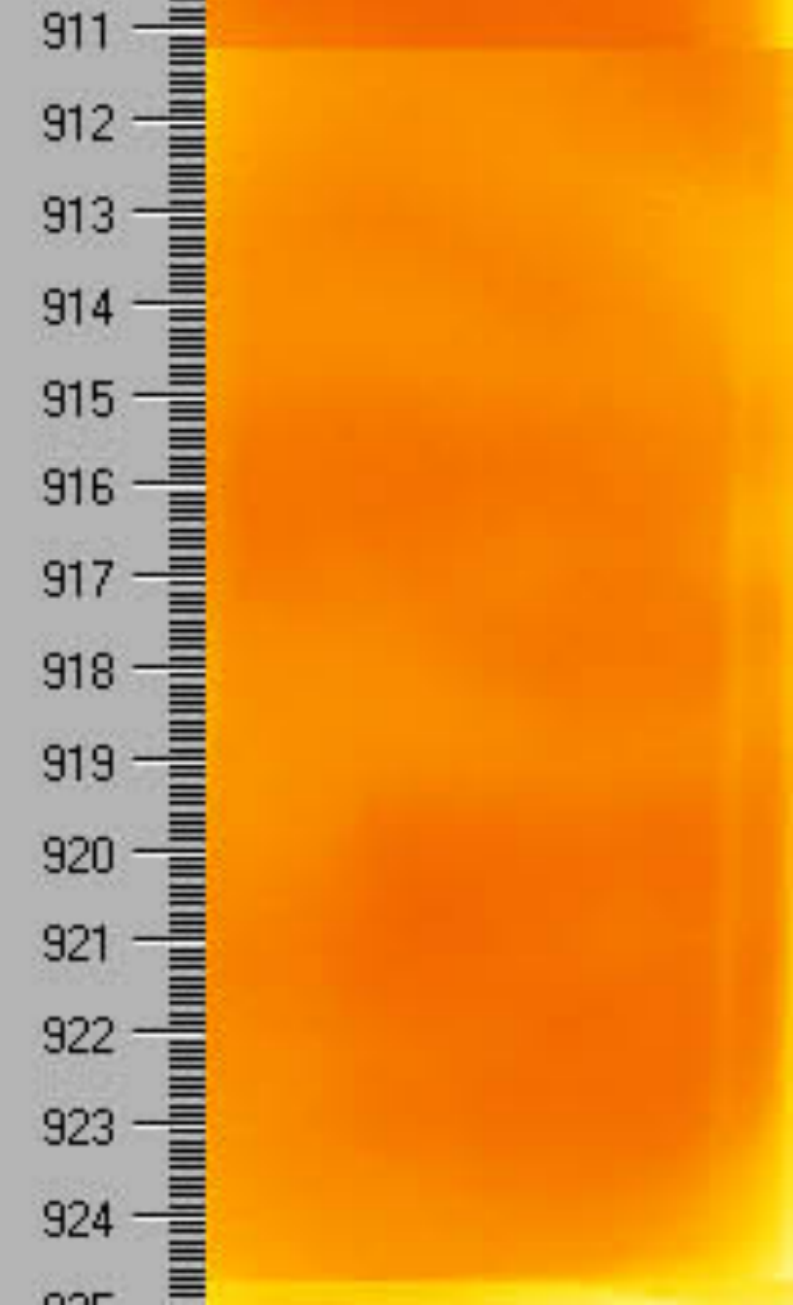
856
857
858
859
860
861
862
863
864
865
866
867


868
869
870
871
872
873
874
875
876
877
878

879
880
881
882
883
884
885
886
887
888


889
890
891
892
893
894
895
896
897
898
899
900


901
902
903
904
905
906
907
908
909
910


911
912
913
914
915
916
917
918
919
920
921
922
923
924