

# 1 Backtest RSI Trend indicator + SPY/QQQ/IWM charts

- run C:\Users\p2p21\projects\wgong\watchetf-dev-2023-11-11\stooq\wg\_run\_backtest\_RSI\_SCORE\_TREND-20250619-2.ipynb to generate charts
- see C:\Users\p2p21\projects\wgong\watchetf-dev-2023-11-11\stooq\research\RSI-Trend\BackTest-20250619\readme.md

```
In [13]: from datetime import datetime
from IPython.core.display import display, HTML
```

```
In [14]: from glob import glob
import os
from pathlib import Path
import shutil
```

## 1.1 collect files

```
In [15]: all_files = glob("images/20*")
```

```
In [16]: files = [dt.split('\\')[-1] for dt in all_files if datetime.fromtimestamp(os.path.getctime(dt)).date() == d]
```

In [17]:

```
files  
['20070617',  
 '20070618',  
 '20070619',  
 '20071217',  
 '20071218',  
 '20071219',  
 '20080617',  
 '20080618',  
 '20080619',  
 '20081217',  
 '20081218',  
 '20081219',  
 '20090617',  
 '20090618',  
 '20090619',  
 '20091217',  
 '20091218',  
 '20091219',  
 '20100617',  
 '20100618',
```

```
In [18]: all_dates = [f for f in files if f.endswith("18")]
all_dates.extend(["20250618"])
all_dates
```

```
Out[18]: ['20050618',
 '20051218',
 '20060618',
 '20061218',
 '20070618',
 '20071218',
 '20080618',
 '20081218',
 '20090618',
 '20091218',
 '20100618',
 '20101218',
 '20110618',
 '20111218',
 '20120618',
 '20121218',
 '20130618',
 '20131218',
 '20140618',
 '20141218']
```

```
In [19]: def _get_img_path(dt, nday=300, ver="v4"):
    #     dt = dt.replace("/", "")
    trend_img = f"images/{dt}/Trend/RSI_Score_Trend-{nday}-{ver}.png"
    spy_img = f"images/{dt}/Trend/SPY-{nday}.png"
    qqq_img = f"images/{dt}/Trend/QQQ-{nday}.png"
    iwm_img = f"images/{dt}/Trend/IWM-{nday}.png"
    return [spy_img, qqq_img, iwm_img, trend_img]

def trow(dt, width=800, height=1000):
    ret_err = []
    ret = ""
    img_list = _get_img_path(dt)
    for img in img_list:

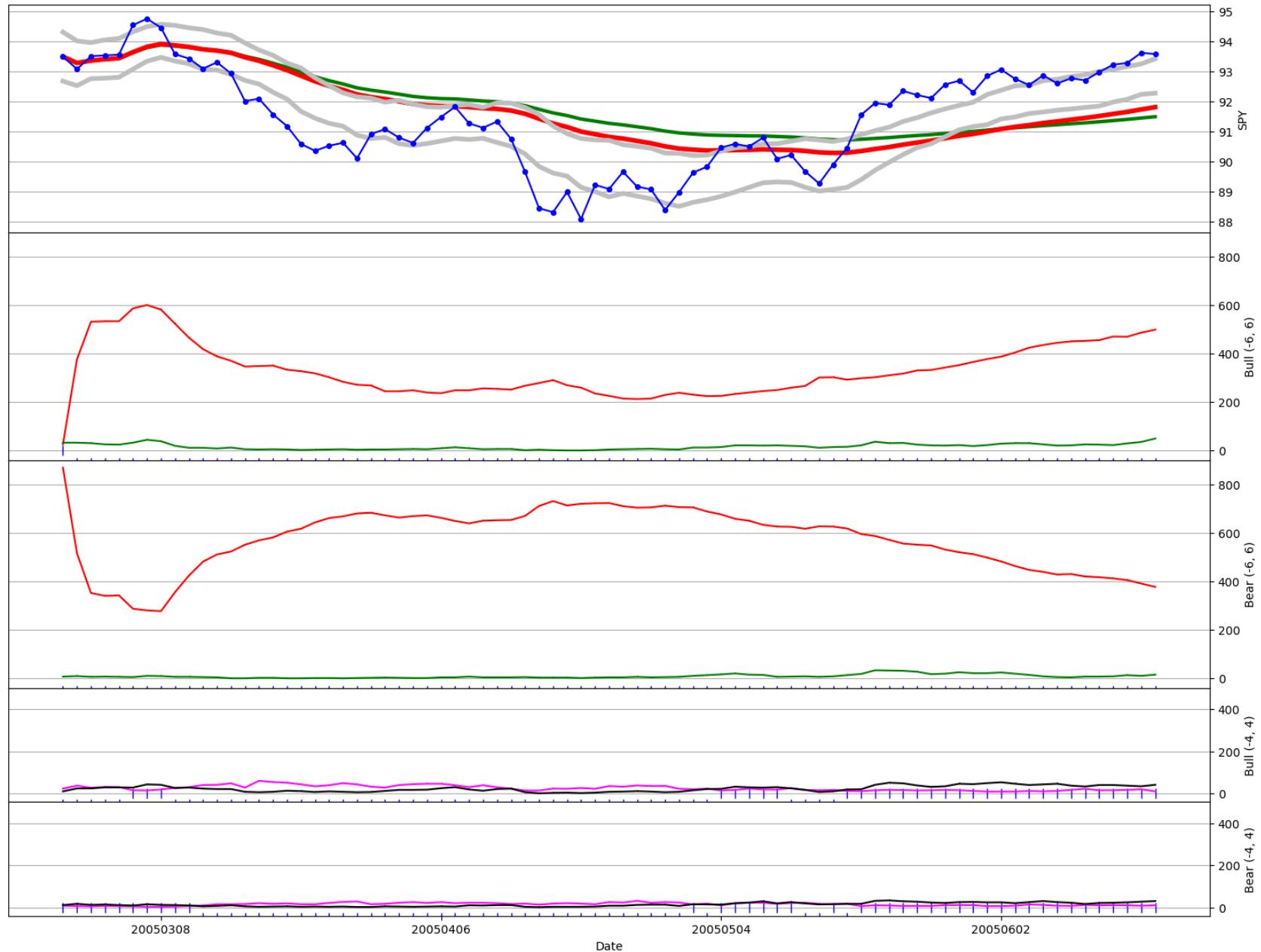
        if Path(img).exists():
            ret += f"""
                <tr>
                    <img src='{img}' width={width} height={height} />
                </tr>"""
        else:
            ret_err.append(img)
            # print(f"{spy_img} not found")

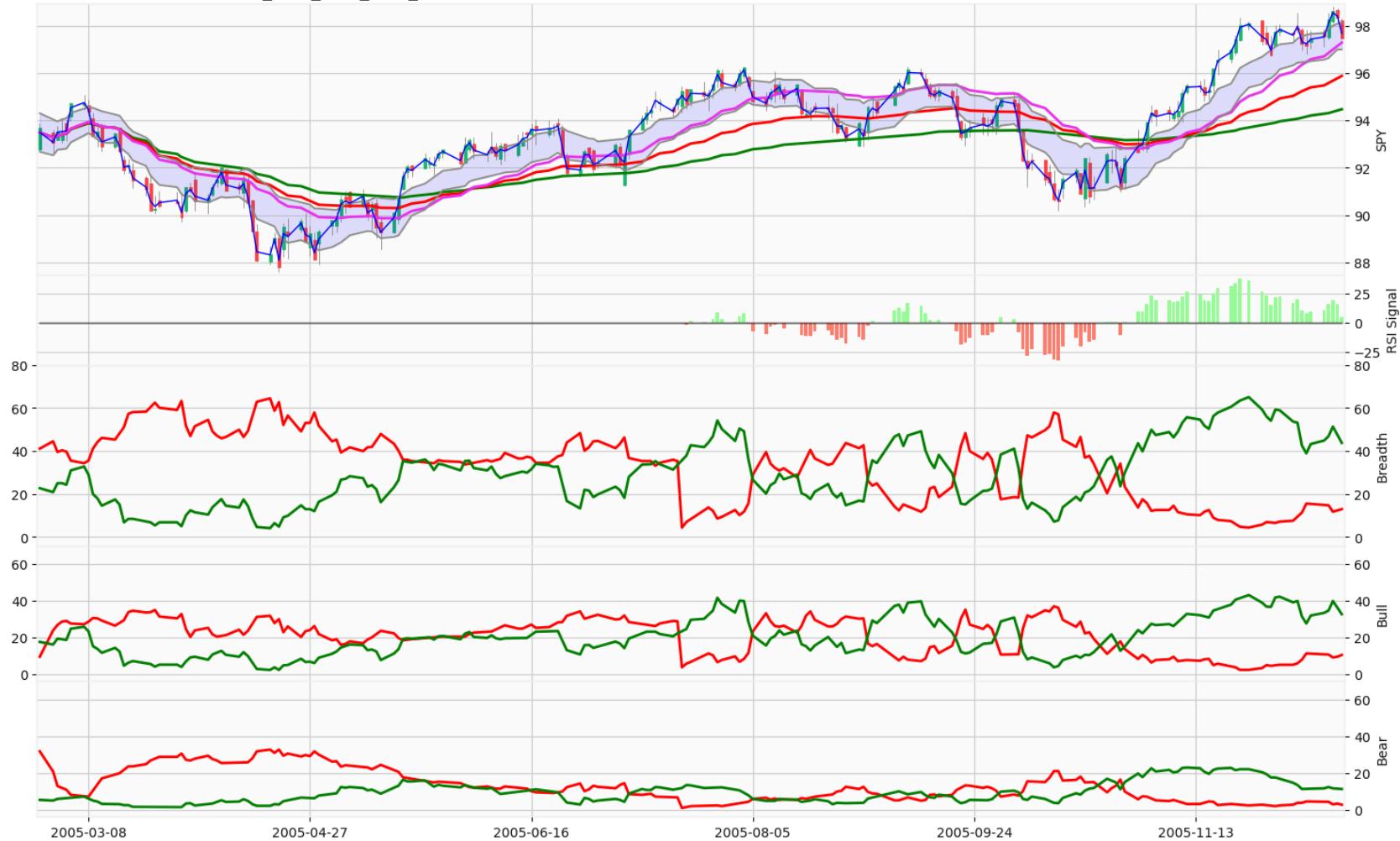
    return ret, ret_err, img_list
```

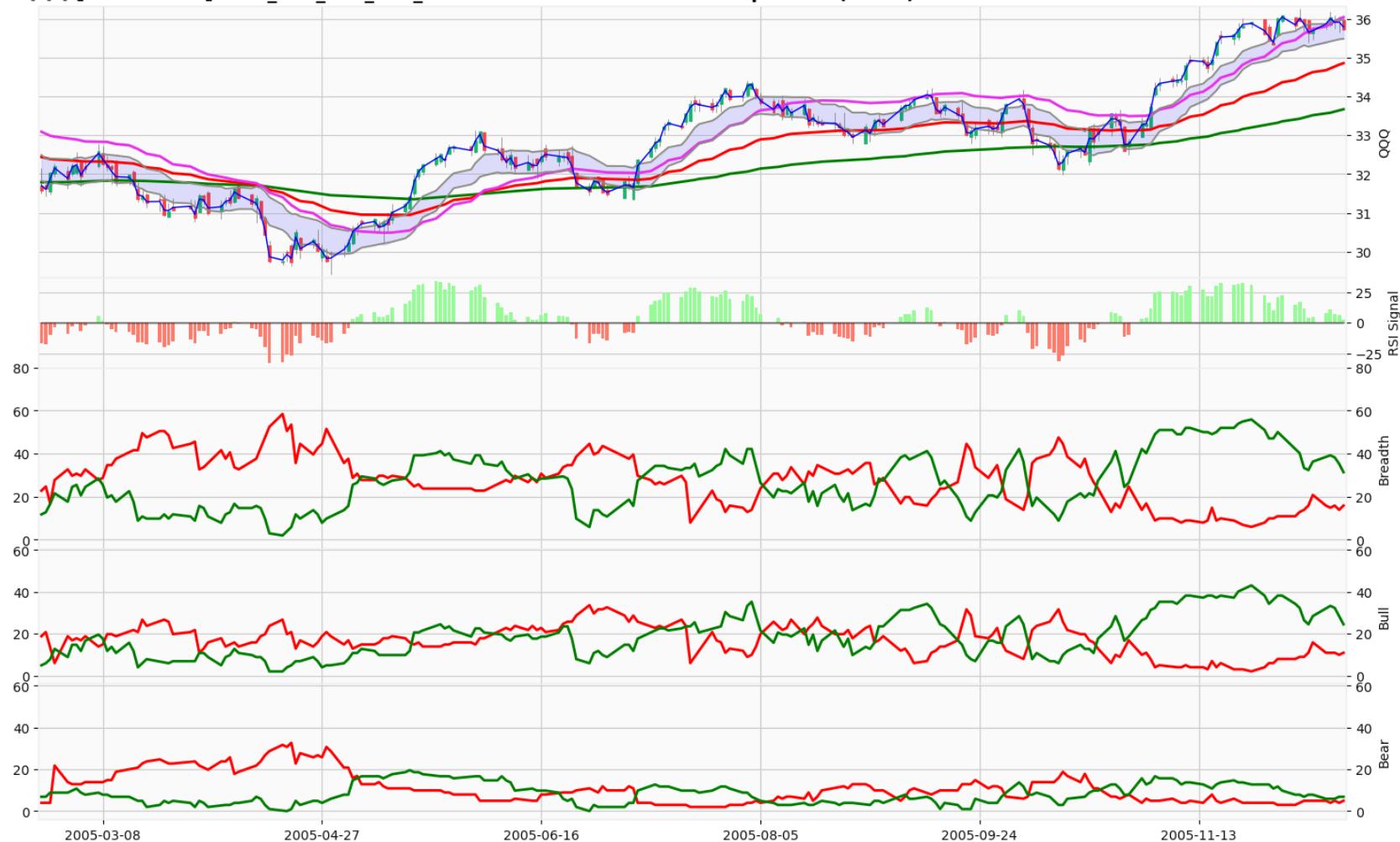
In [35]:

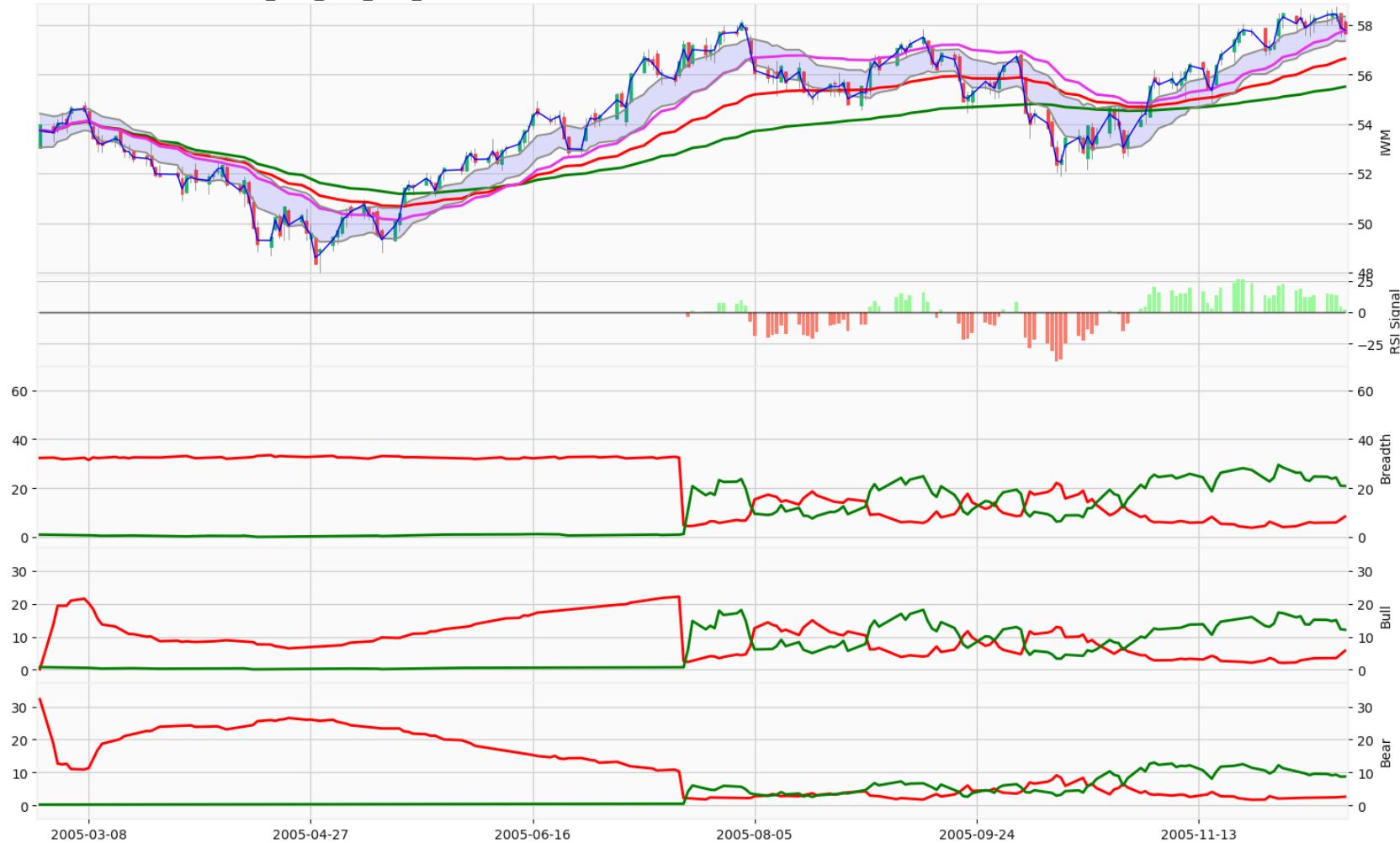
```
errors = []
all_images = []
html = "<table>"
# testing
# for dt in all_dates[-2:]:
for dt in all_dates:
    ret, ret_err, img_list = trow(dt, width=1000, height=1600)
    all_images += img_list
    if ret_err:
        errors += ret_err
    if ret:
        html += ret
html += "</table>"
display(HTML(html))
```

## RSI Score Trend: 20040823-20050618

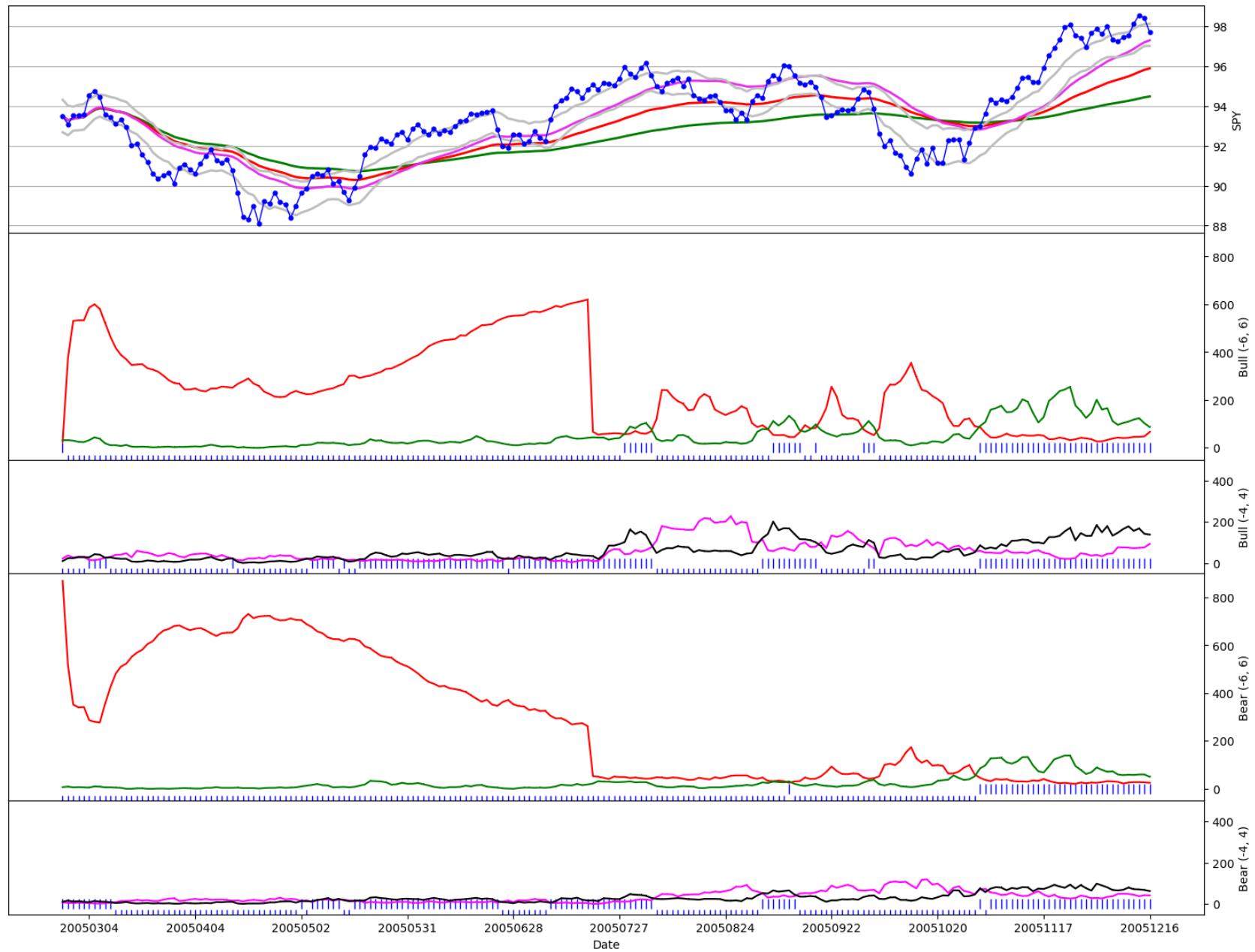


**SPY [2005-12-16] V:59\_930\_982\_000\_000 L:97.47 H:98.31 C:97.47 Wp:97.68 (-0.9%) 1**

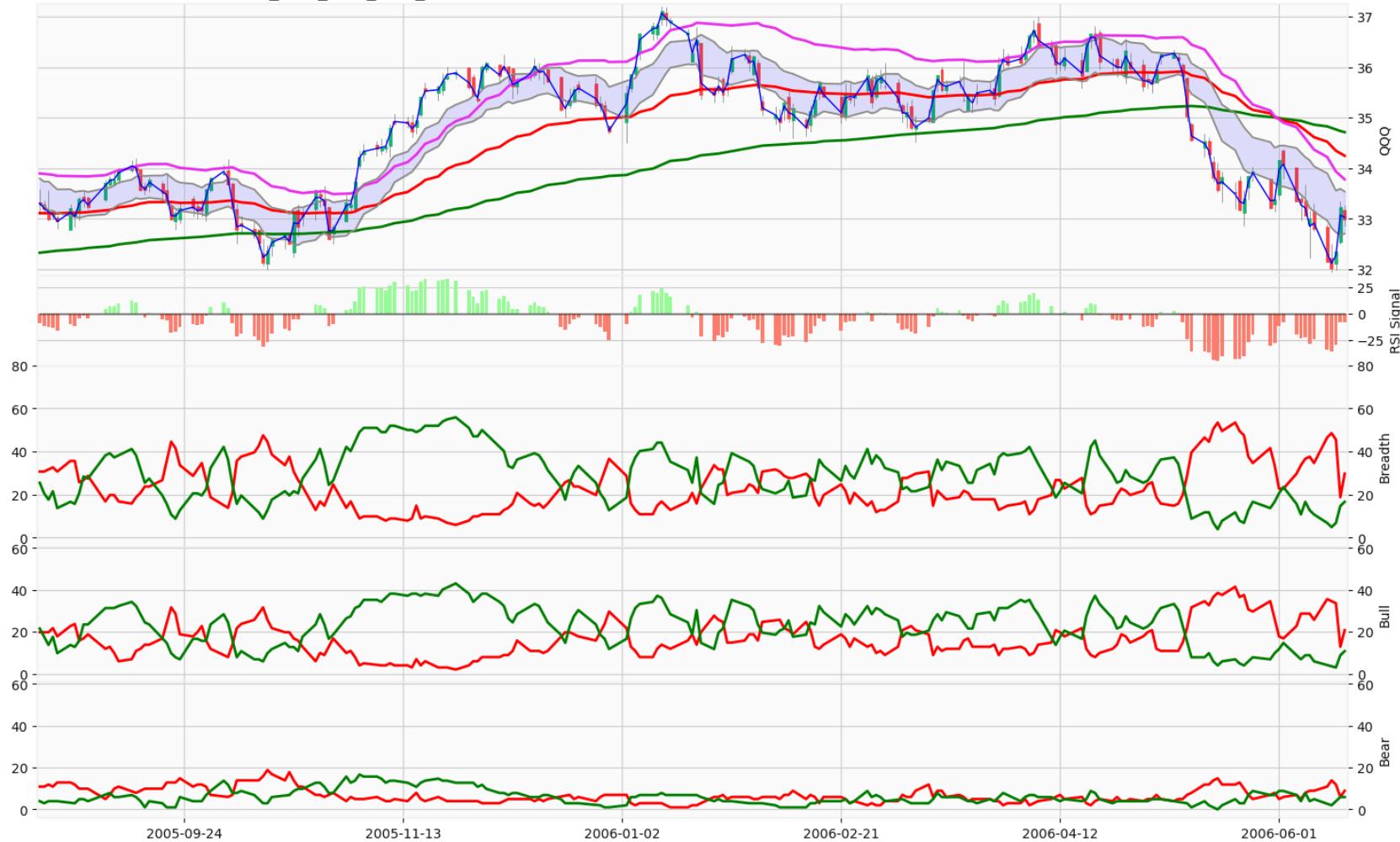
**QQQ [2005-12-16] V:74\_201\_206\_000\_000 L:35.69 H:36.03 C:35.72 Wp:35.79 (-0.7%) 1**

**IWM [2005-12-16] V:25\_279\_111\_465\_757 L:57.62 H:58.25 C:57.64 Wp:57.79 (-0.4%) 0**

RSI Score Trend: 20050222-20051218

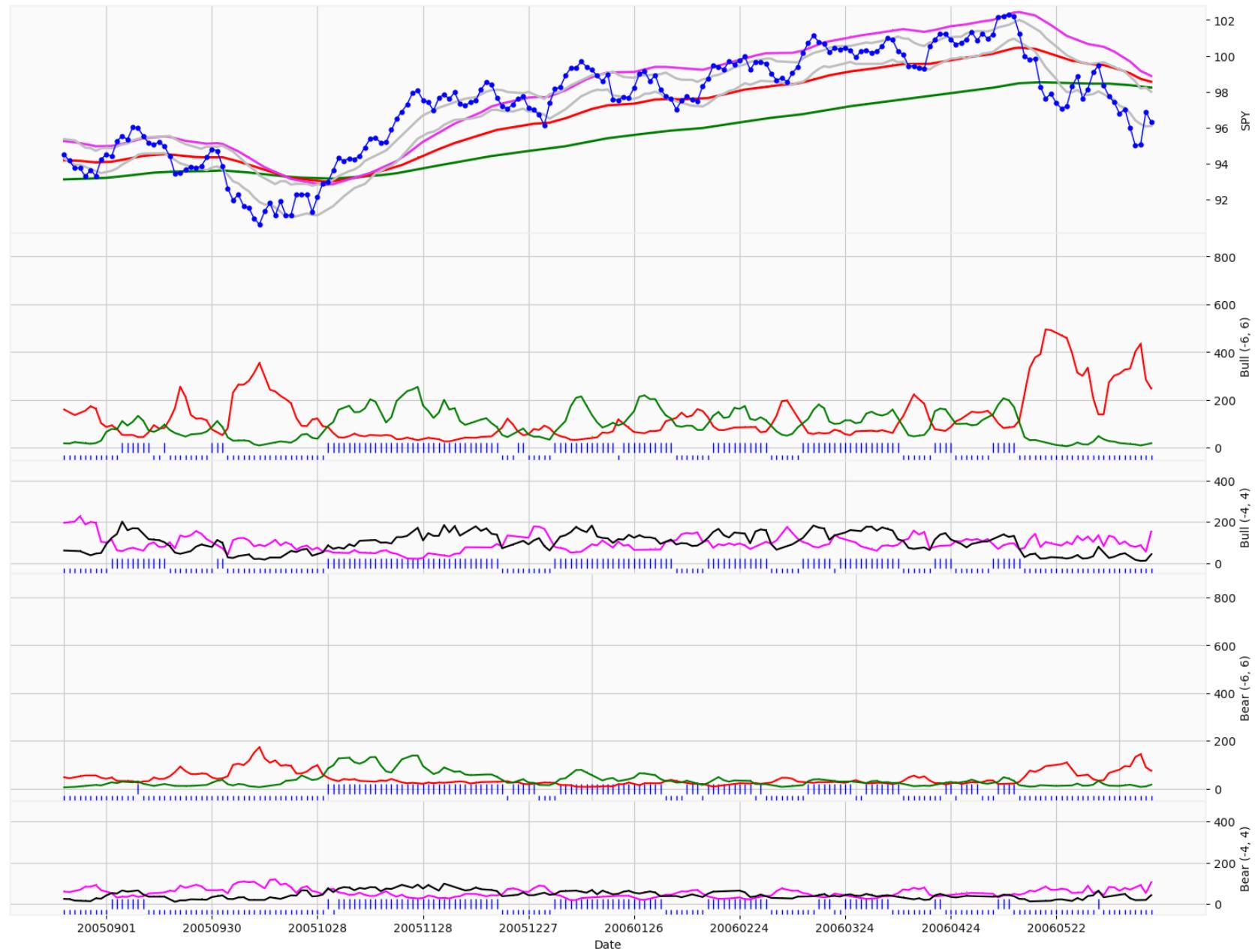


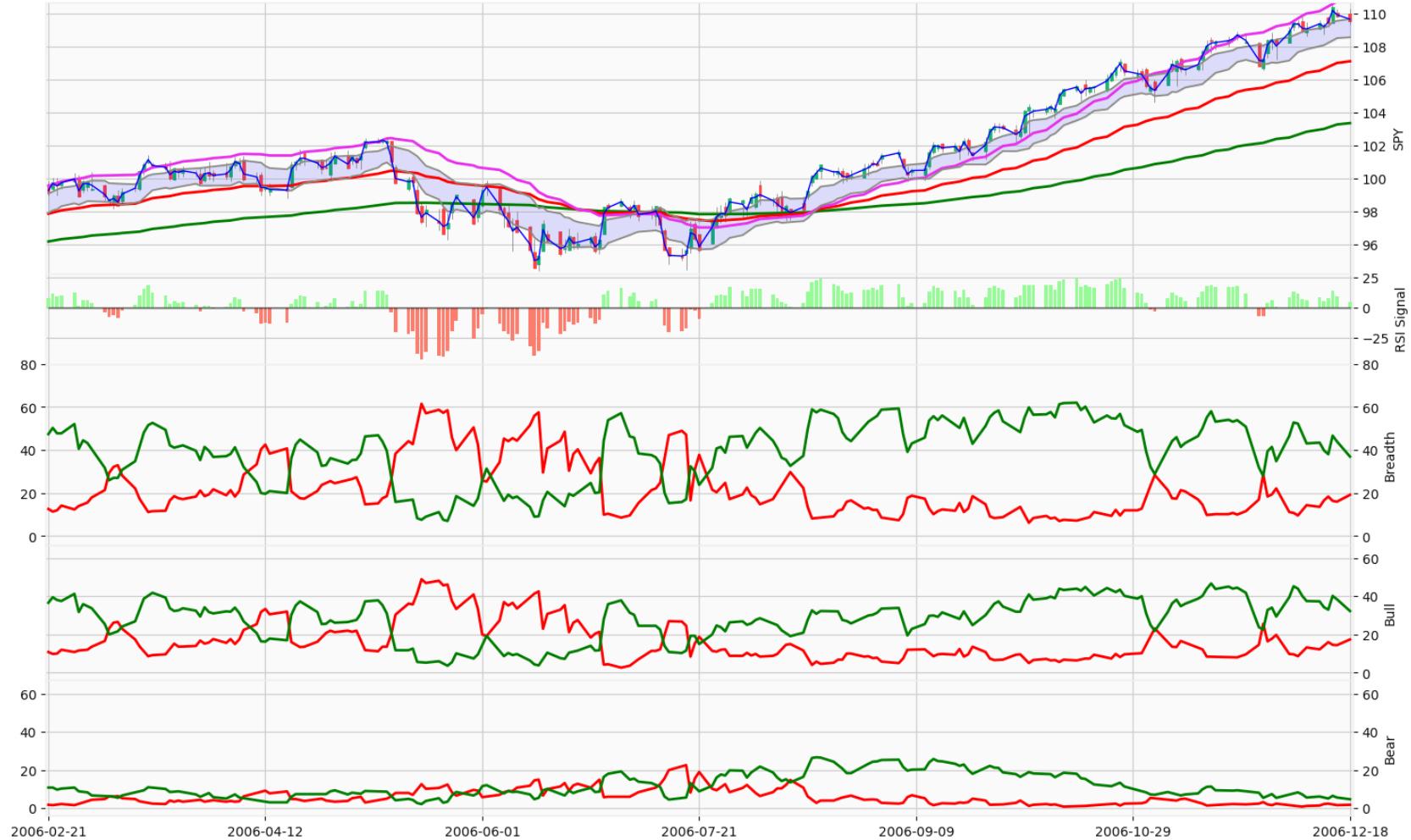
**SPY [2006-06-16] V:122\_180\_841\_000\_000 L:96.04 H:96.86 C:96.19 Wp:96.32 (-1.1%) -5**

**QQQ [2006-06-16] V:139\_483\_079\_000\_000 L:32.87 H:33.28 C:32.99 Wp:33.03 (-0.7%) -4**

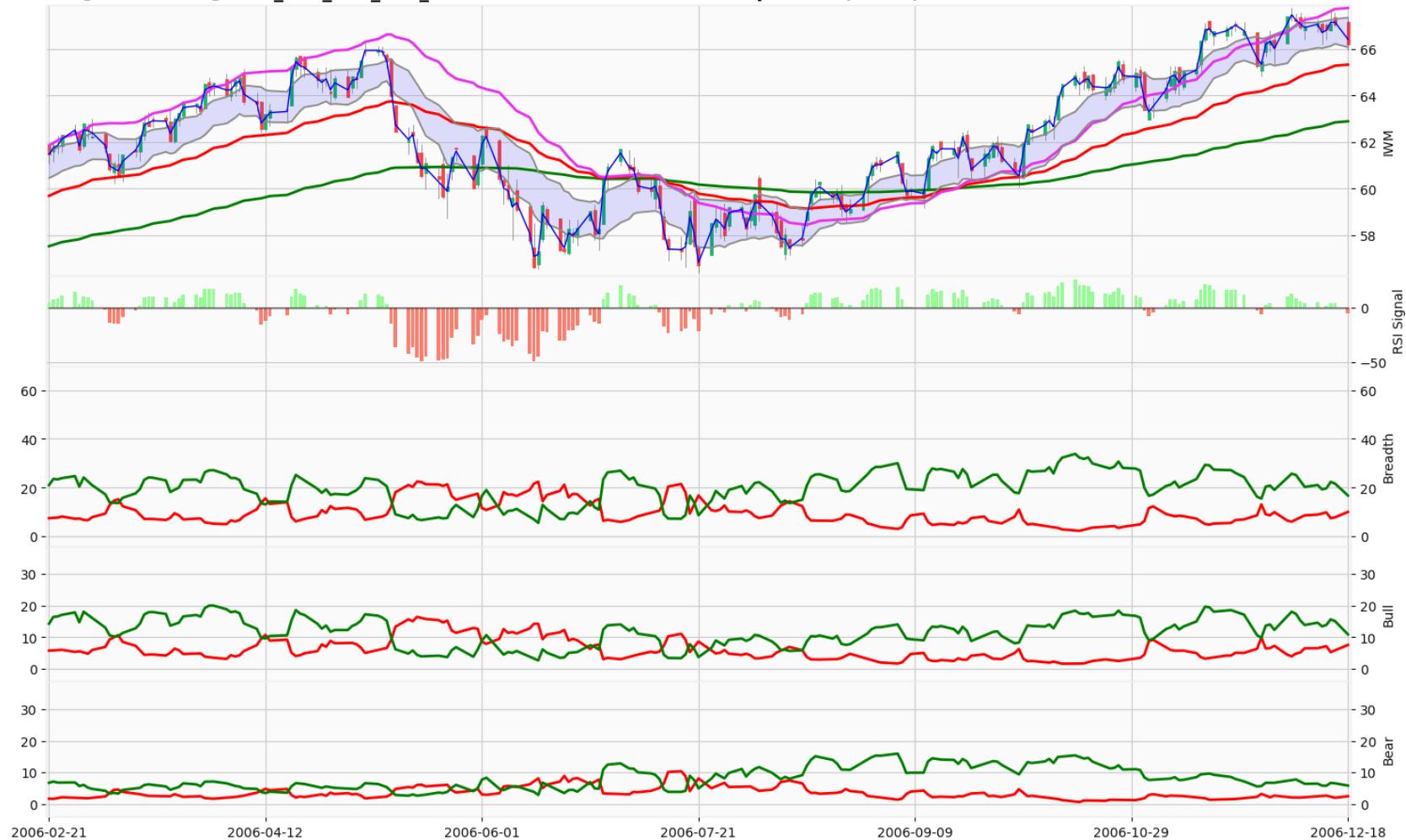
**IWM [2006-06-16] V:78\_676\_767\_100\_023 L:58.26 H:59.23 C:58.50 Wp:58.62 (-1.3%) -6**

RSI Score Trend: 20050822-20060618

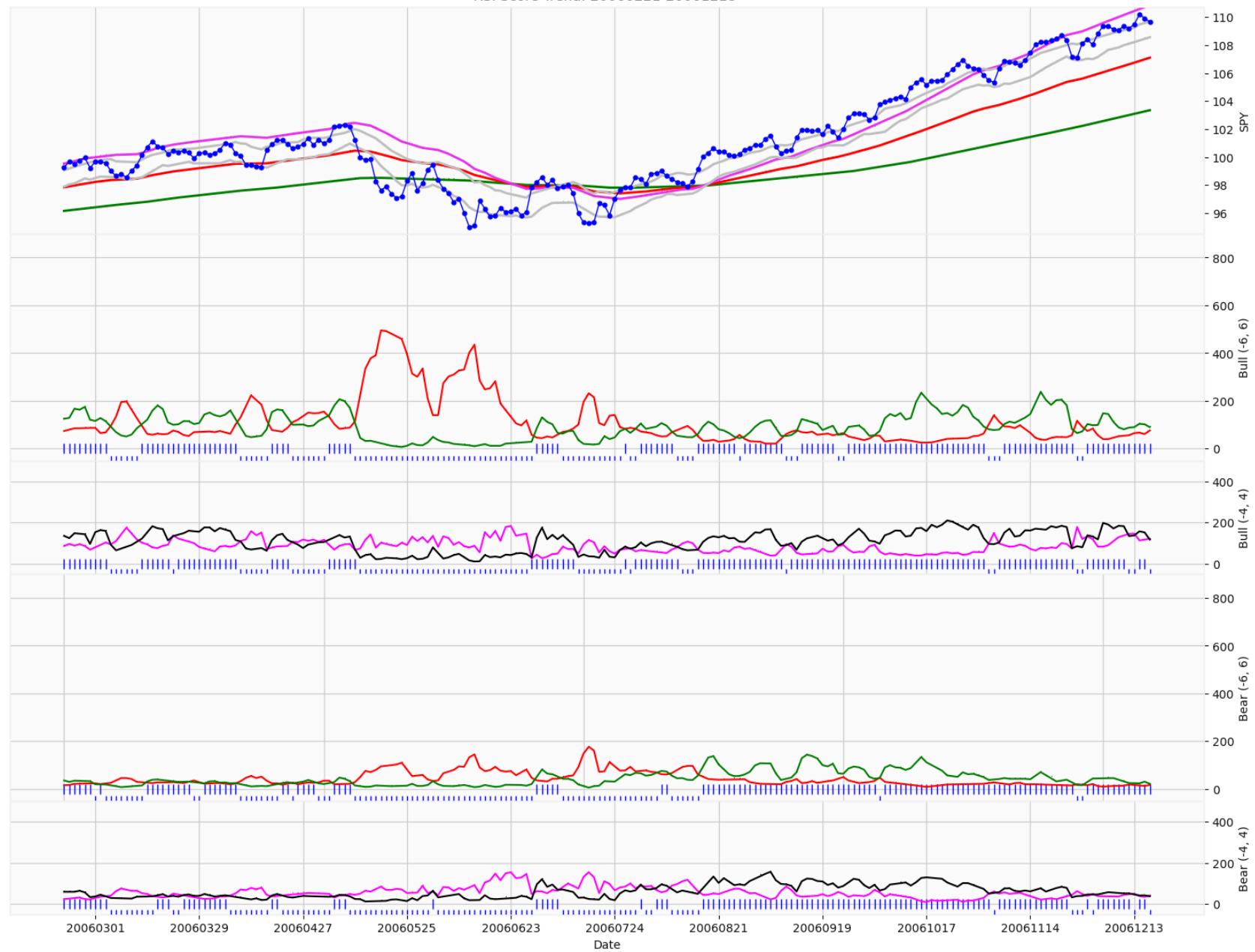


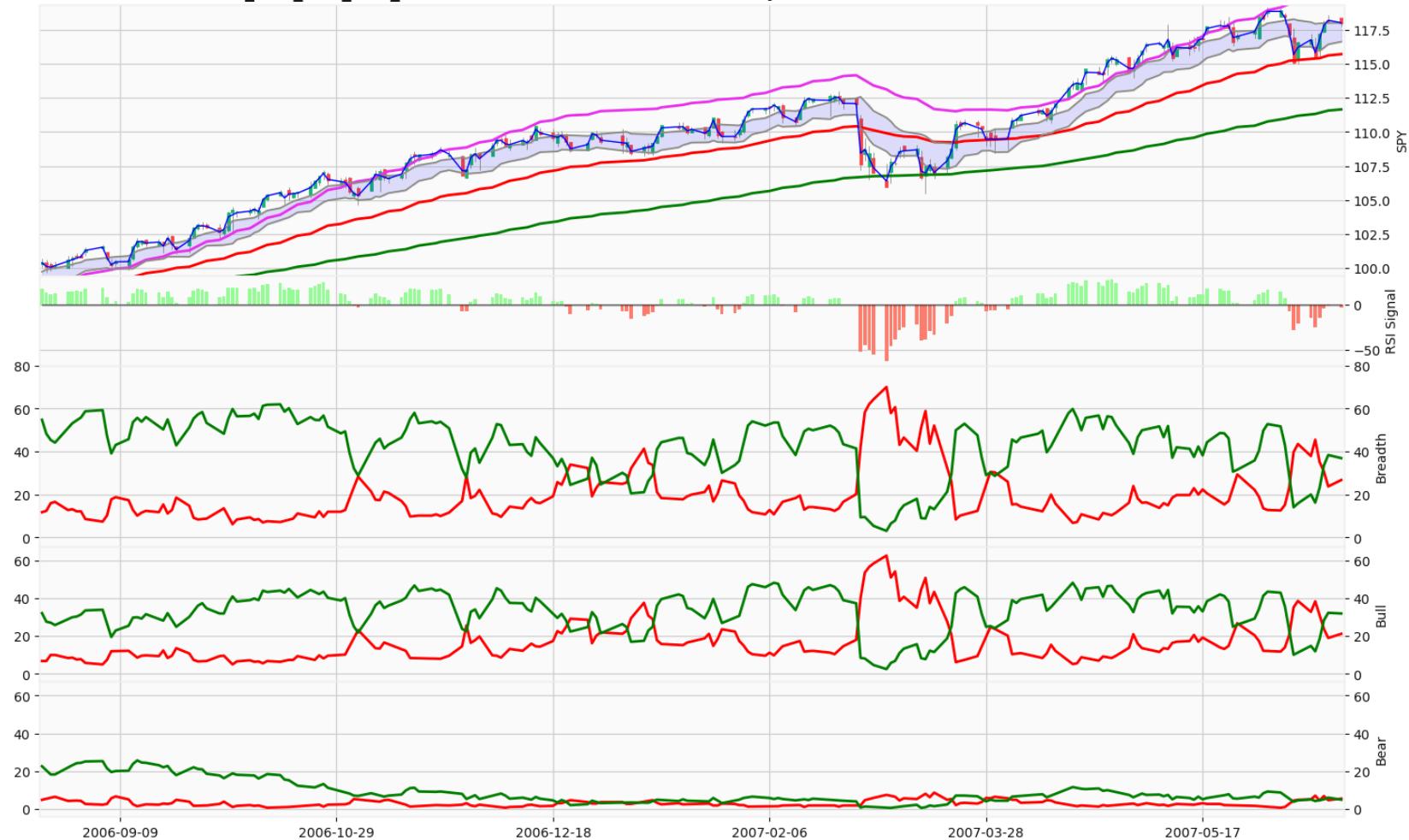
**SPY [2006-12-18] V:63\_454\_719\_000\_000 L:109.34 H:110.26 C:109.52 Wp:109.66 (-0.3%) 1**

**QQQ [2006-12-18] V:141\_063\_571\_000\_000 L:37.75 H:38.57 C:37.92 Wp:38.04 (-1.0%) 1**

**IWM [2006-12-18] V:55\_343\_973\_131\_781 L:65.96 H:67.30 C:66.20 Wp:66.42 (-1.3%) 0**

RSI Score Trend: 20060221-20061218

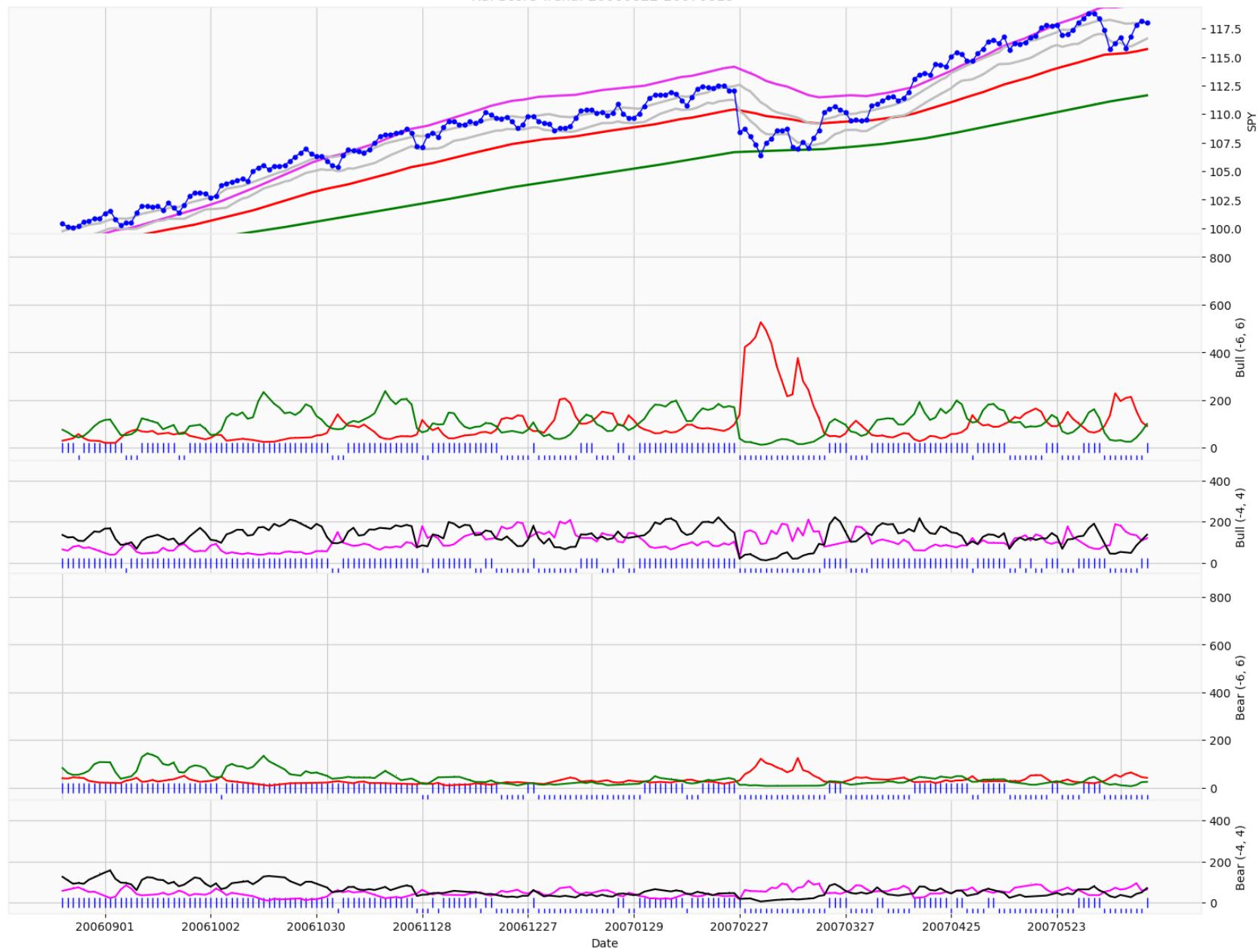


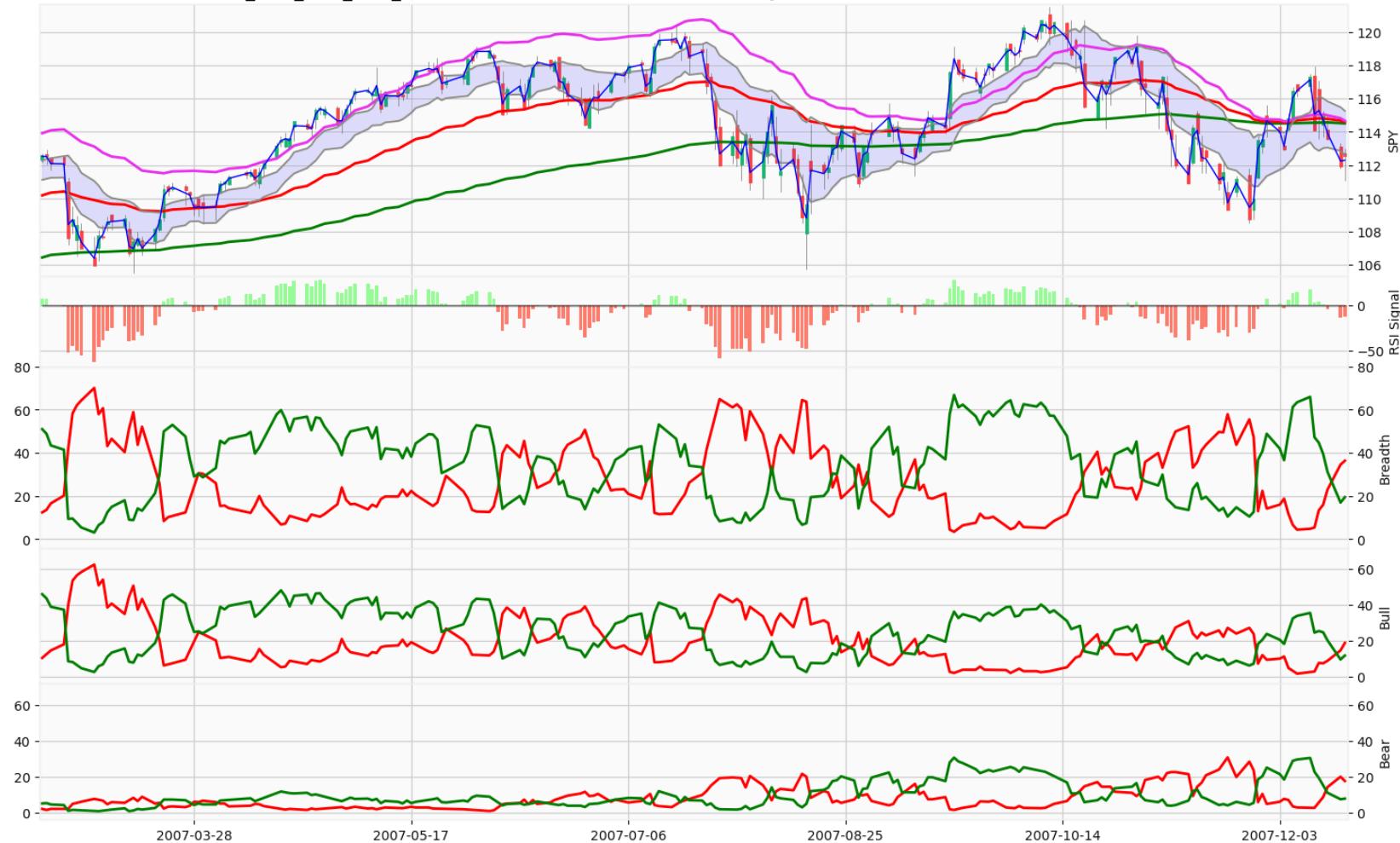
**SPY [2007-06-18] V:114\_883\_576\_000\_000 L:117.77 H:118.36 C:117.94 Wp:118.00 (-0.1%) 0**

**QQQ [2007-06-18] V:87\_721\_577\_000\_000 L:41.14 H:41.32 C:41.23 Wp:41.23 (0.0%) 4**

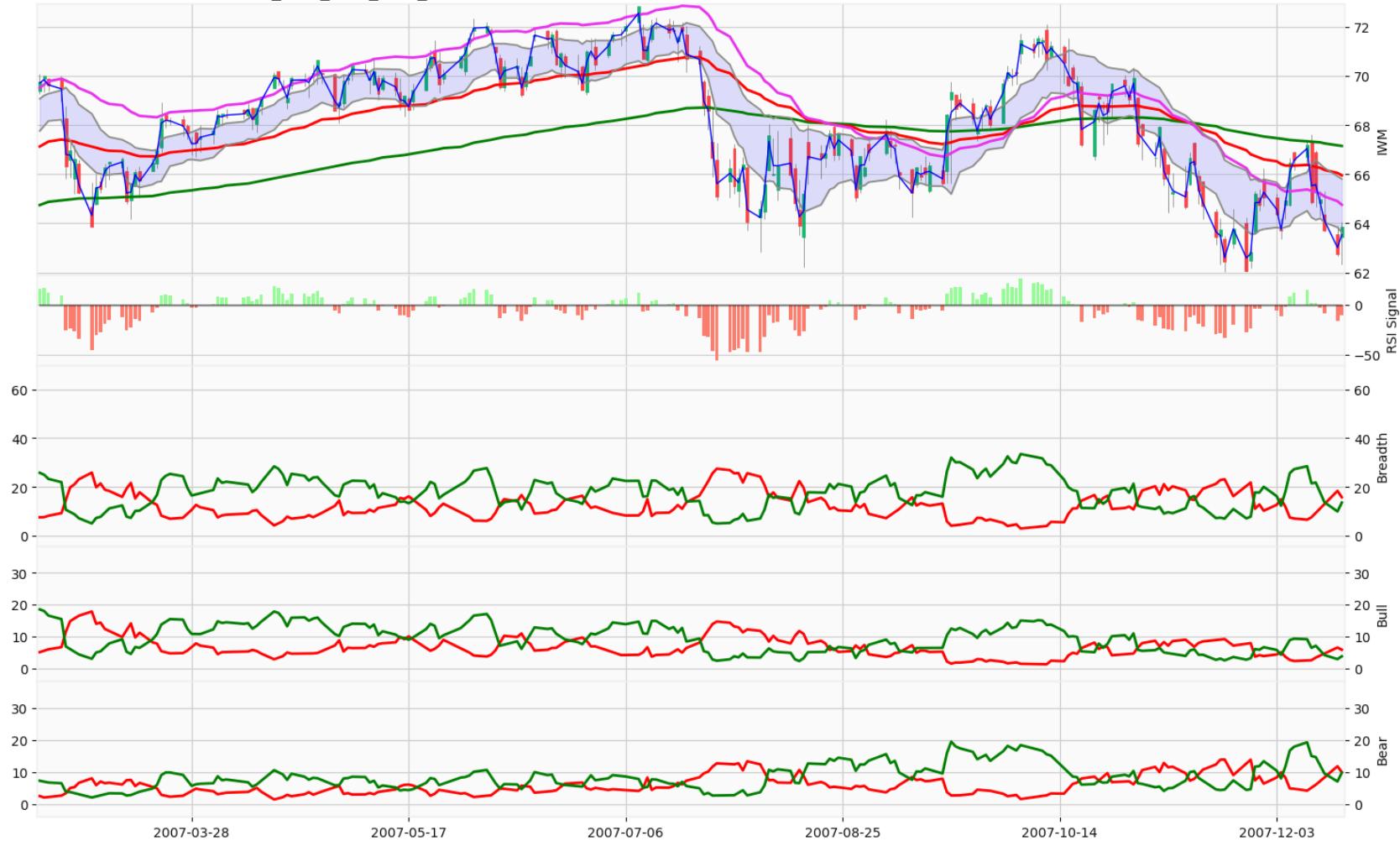
**IWM [2007-06-18] V:70\_777\_765\_528\_725 L:71.12 H:71.90 C:71.52 Wp:71.52 (-0.2%) 1**

RSI Score Trend: 20060822-20070618

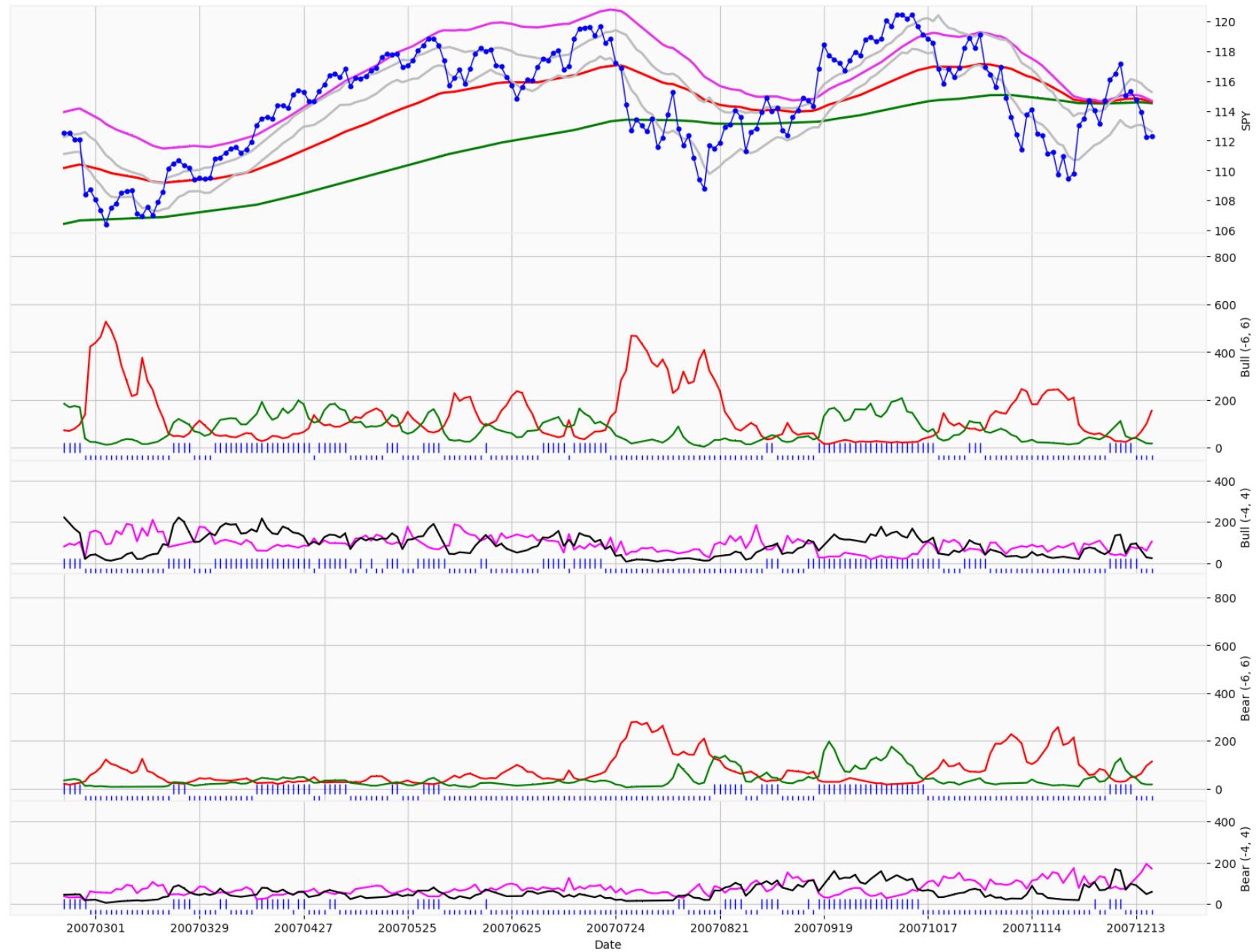


**SPY [2007-12-18] V:318\_284\_233\_000\_000 L:111.08 H:113.00 C:112.55 Wp:112.29 (0.5%) -4**

**QQQ [2007-12-18] V:178\_637\_076\_000\_000 L:42.46 H:43.41 C:43.08 Wp:43.01 (0.3%) -6**

**IWM [2007-12-18] V:134\_755\_271\_978\_810 L:62.33 H:64.07 C:63.87 Wp:63.54 (1.8%) -4**

RSI Score Trend: 20070221-20071218

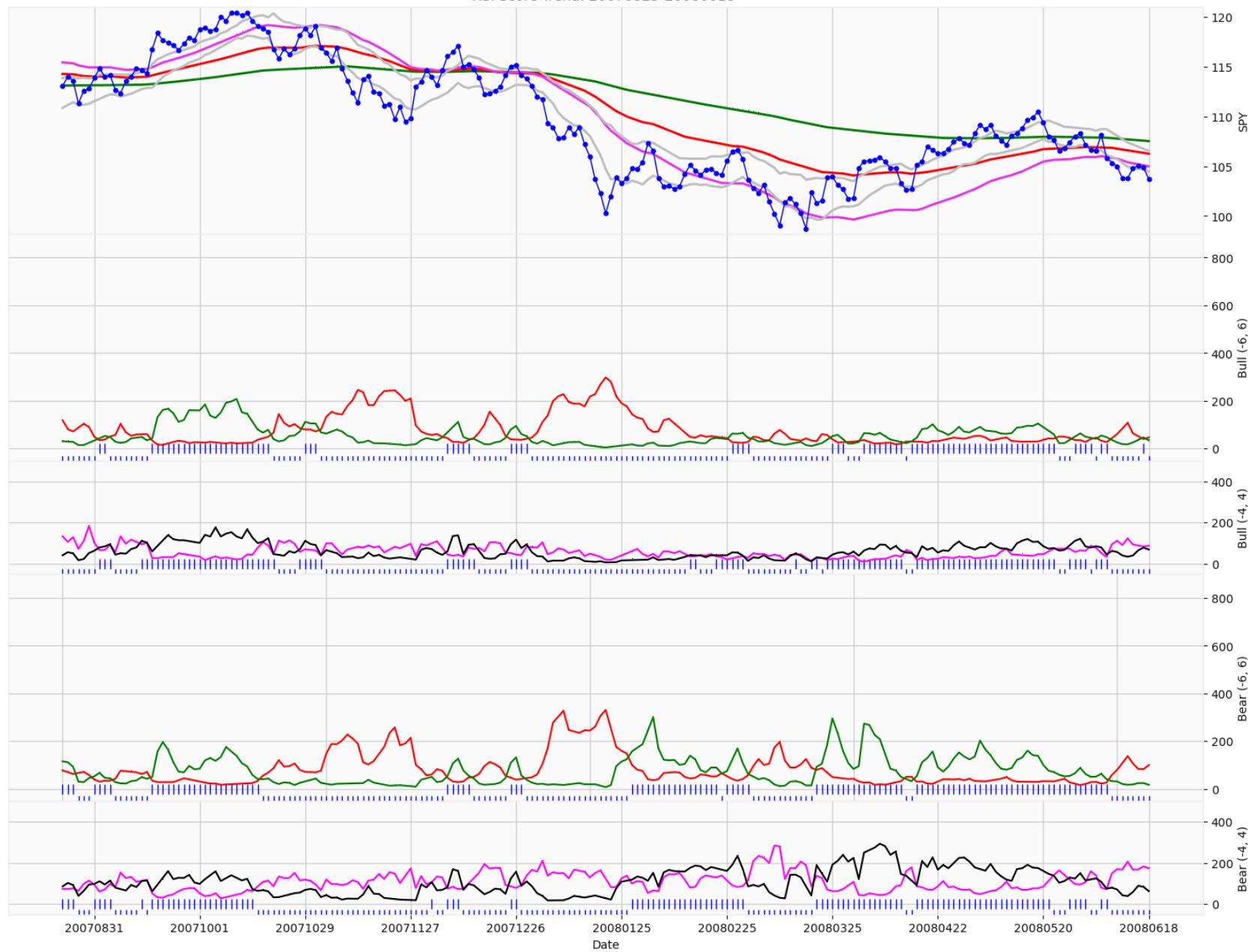


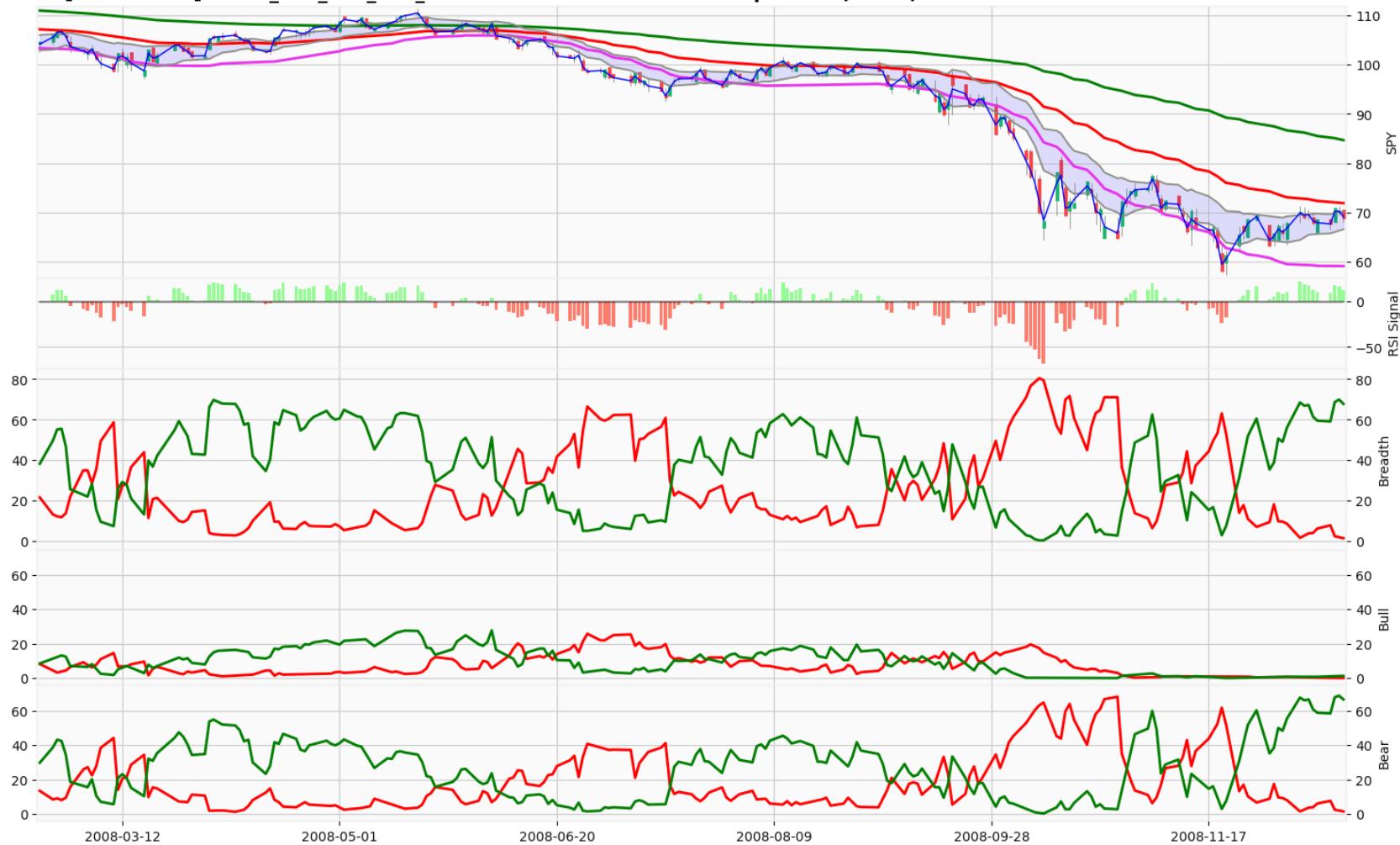
**SPY [2008-06-18] V:346\_022\_625\_000\_000 L:103.13 H:104.58 C:103.59 Wp:103.72 (-1.0%) -4**

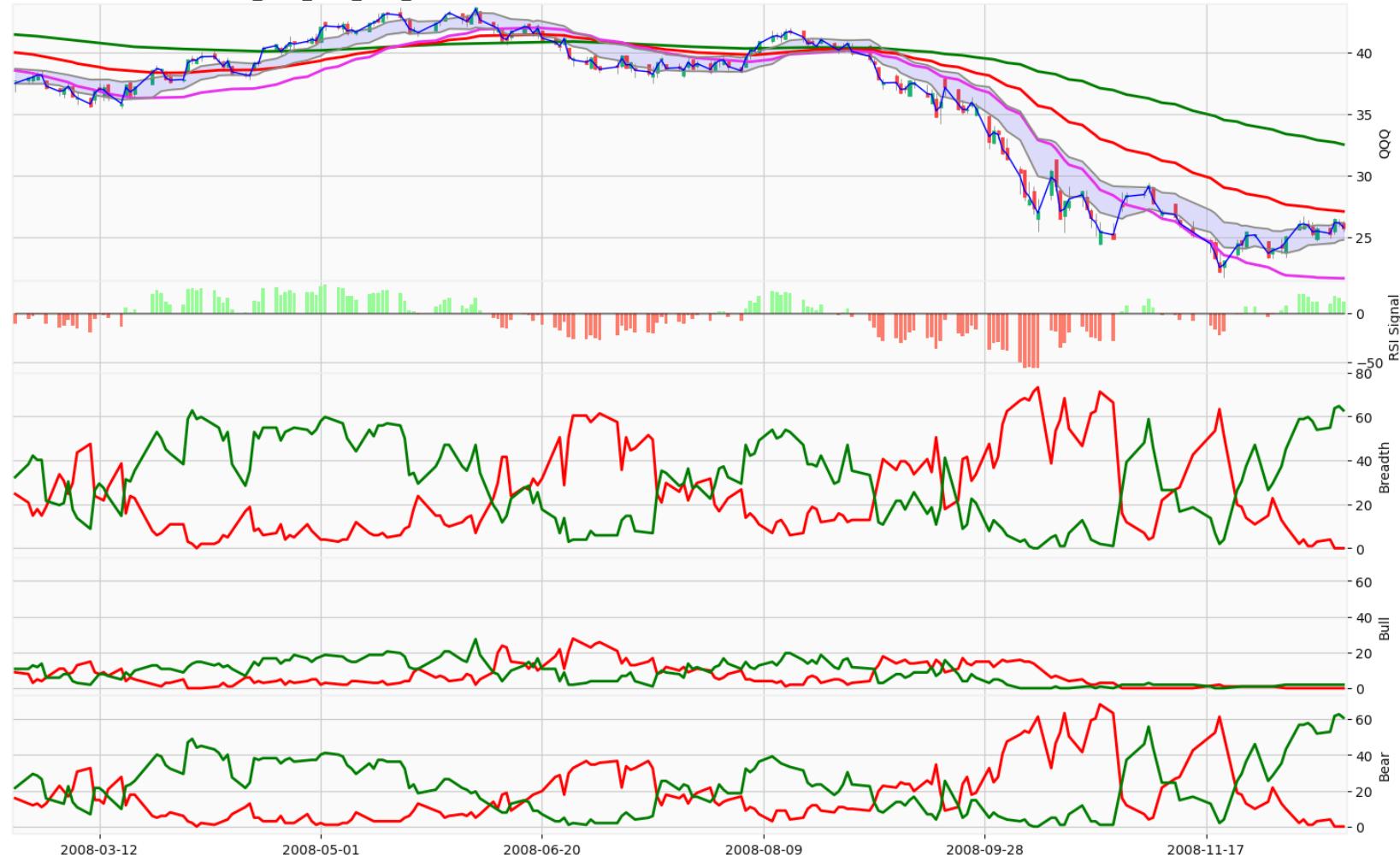
**QQQ [2008-06-18] V:195\_738\_336\_000\_000 L:41.38 H:41.92 C:41.54 Wp:41.60 (-1.1%) -3**

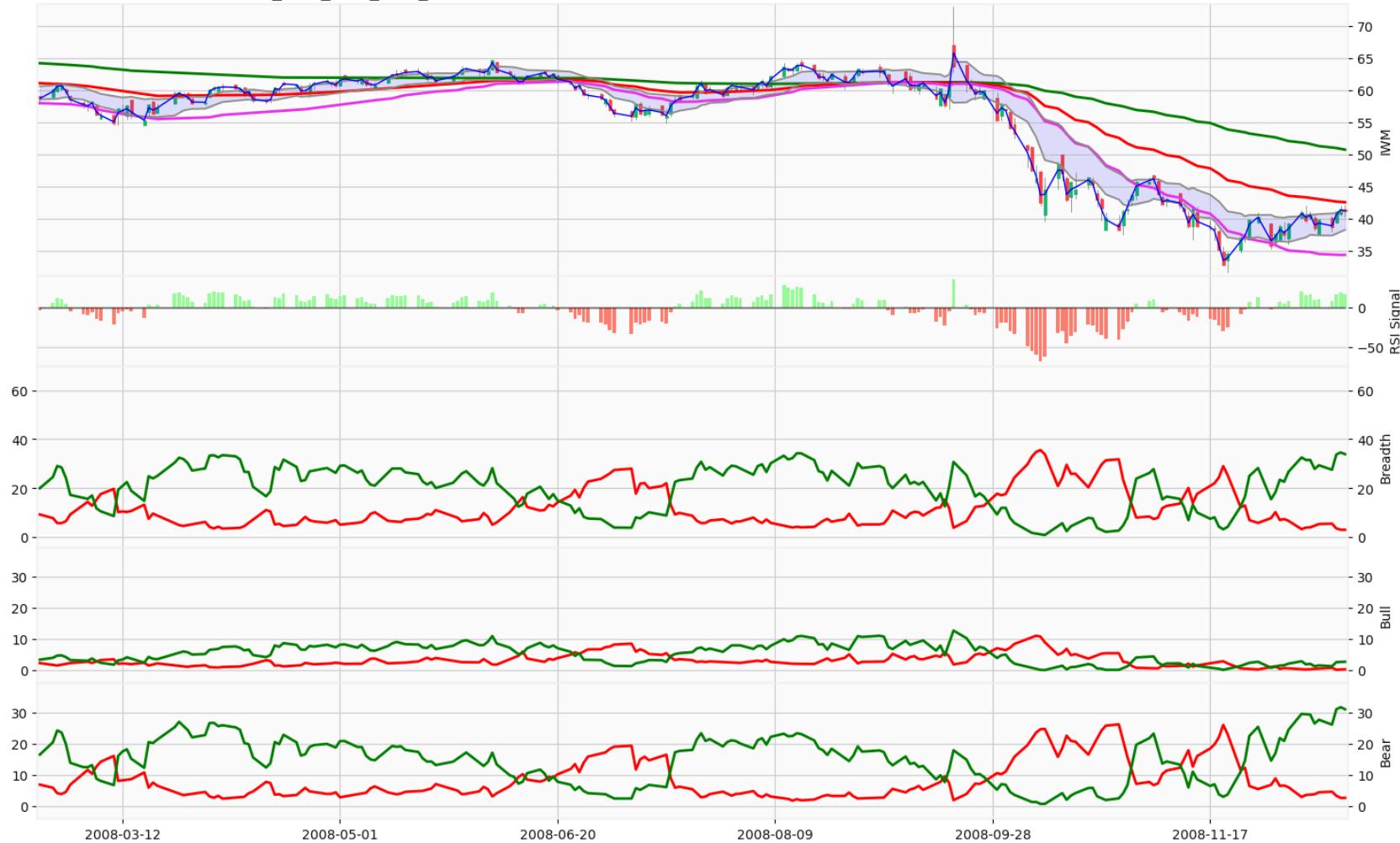
**IWM [2008-06-18] V:103\_673\_262\_862\_690 L:61.59 H:62.44 C:62.14 Wp:62.08 (-0.8%) 0**

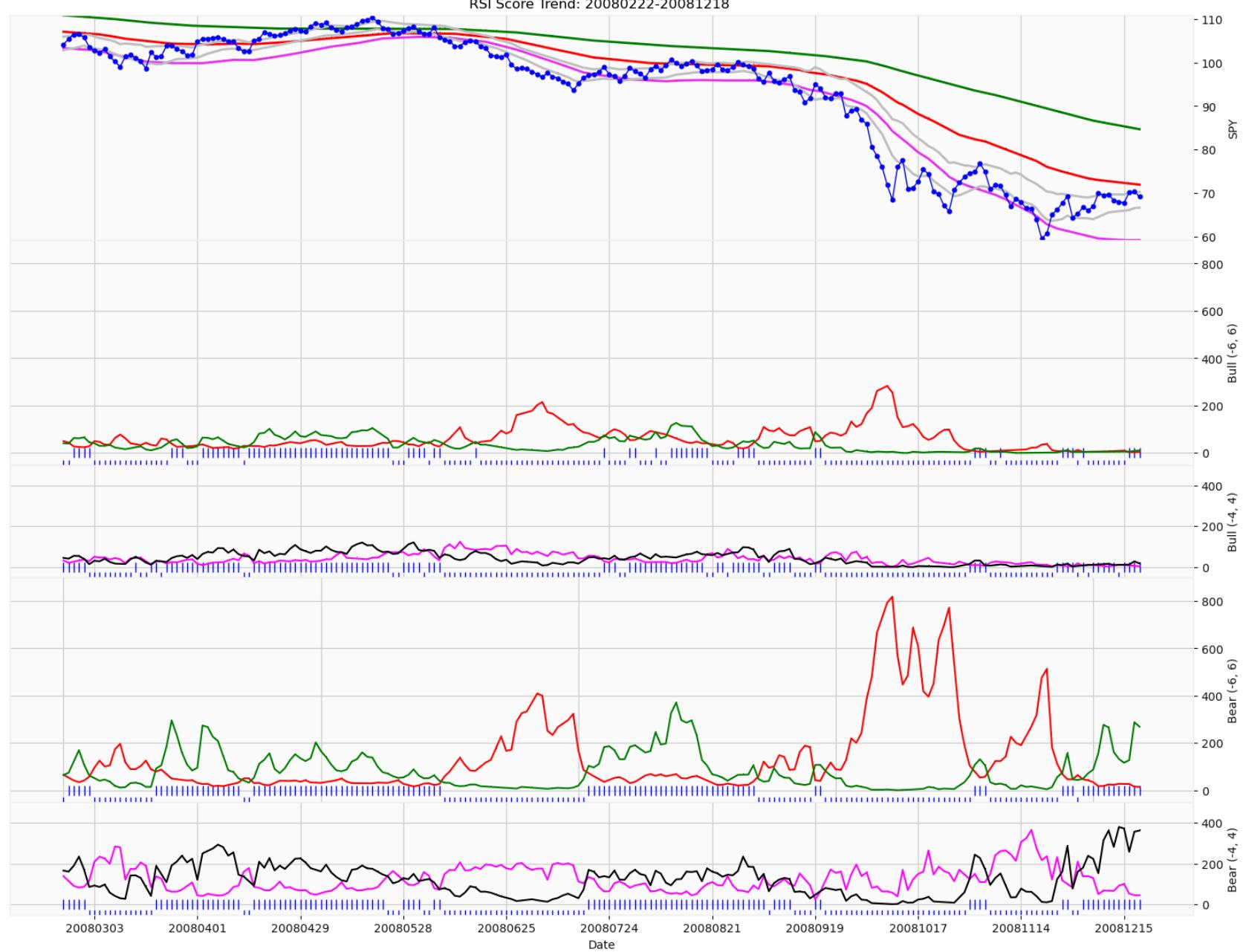
RSI Score Trend: 20070823-20080618



**SPY [2008-12-18] V:485\_819\_295\_000\_000 L:68.05 H:70.73 C:68.89 Wp:69.14 (-1.9%) 2**

**QQQ [2008-12-18] V:164\_652\_352\_000\_000 L:25.44 H:26.34 C:25.70 Wp:25.79 (-1.7%) 4**

**IWM [2008-12-18] V:103\_435\_309\_571\_300 L:40.21 H:42.20 C:41.18 Wp:41.19 (-0.6%) 2**



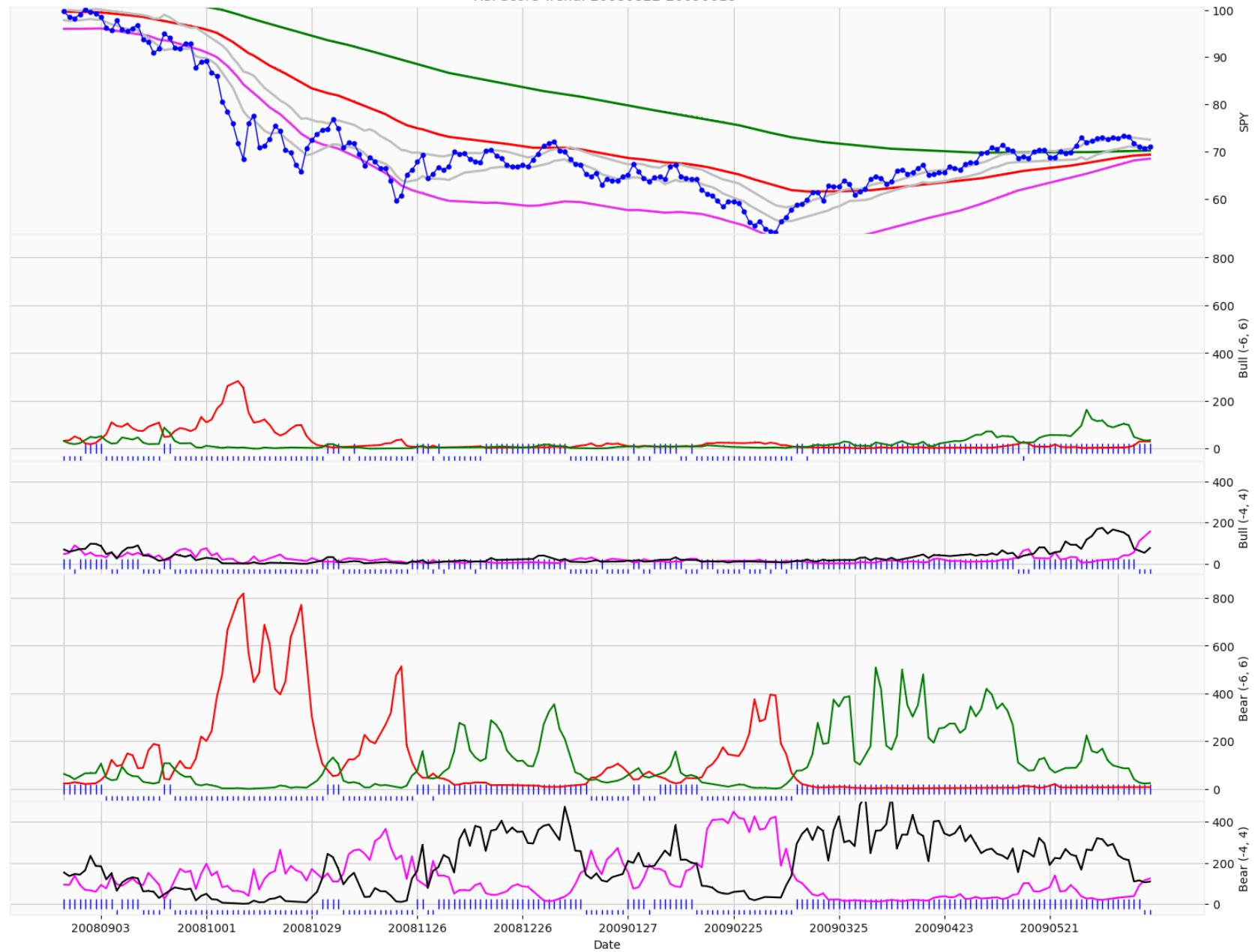
**SPY [2009-06-18] V:274\_418\_497\_000\_000 L:70.40 H:71.50 C:71.15 Wp:71.05 (0.7%) O**

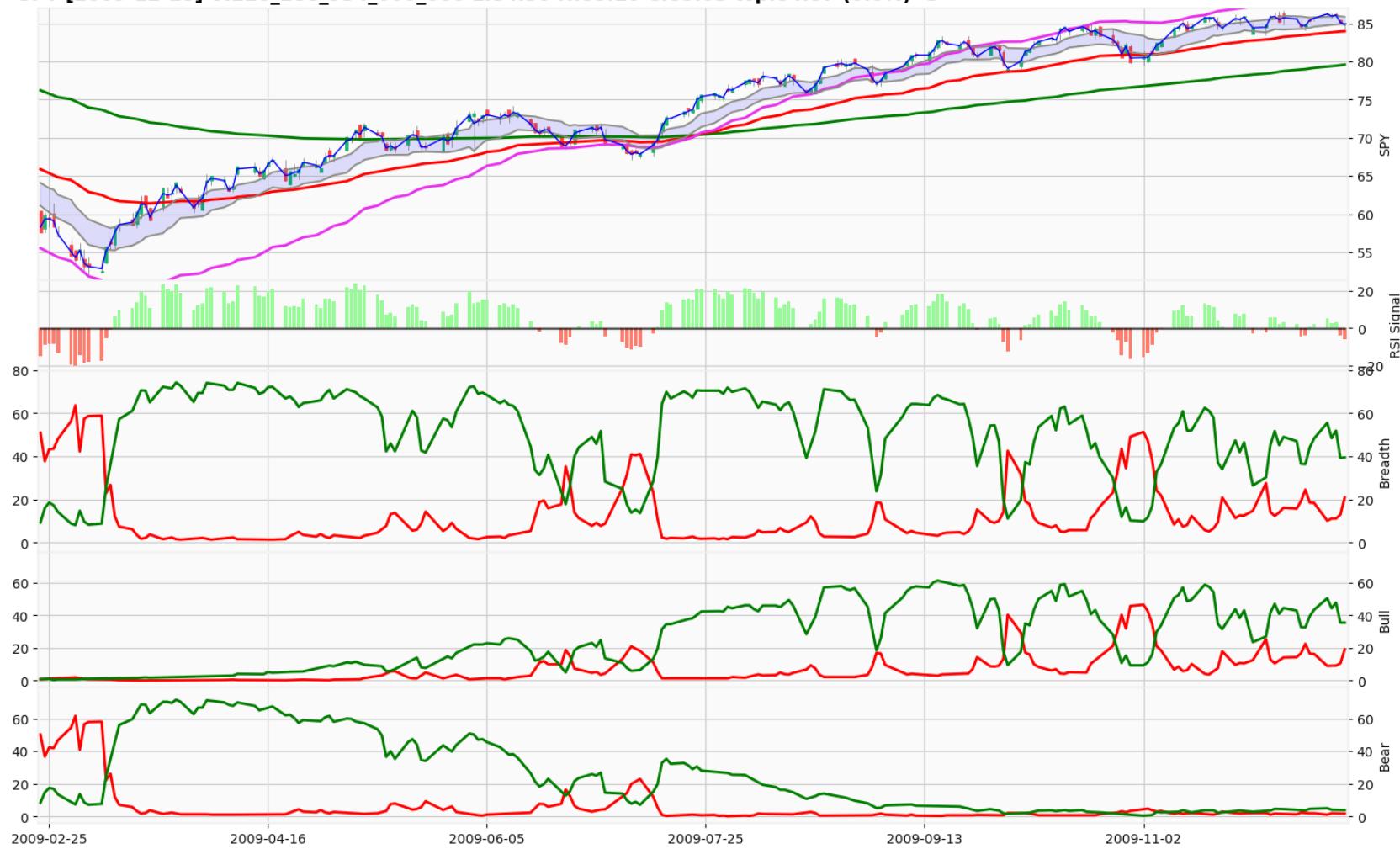
QQQ [2009-06-18] V:145\_297\_128\_000\_000 L:30.91 H:31.34 C:31.13 Wp:31.13 (-0.2%) 0

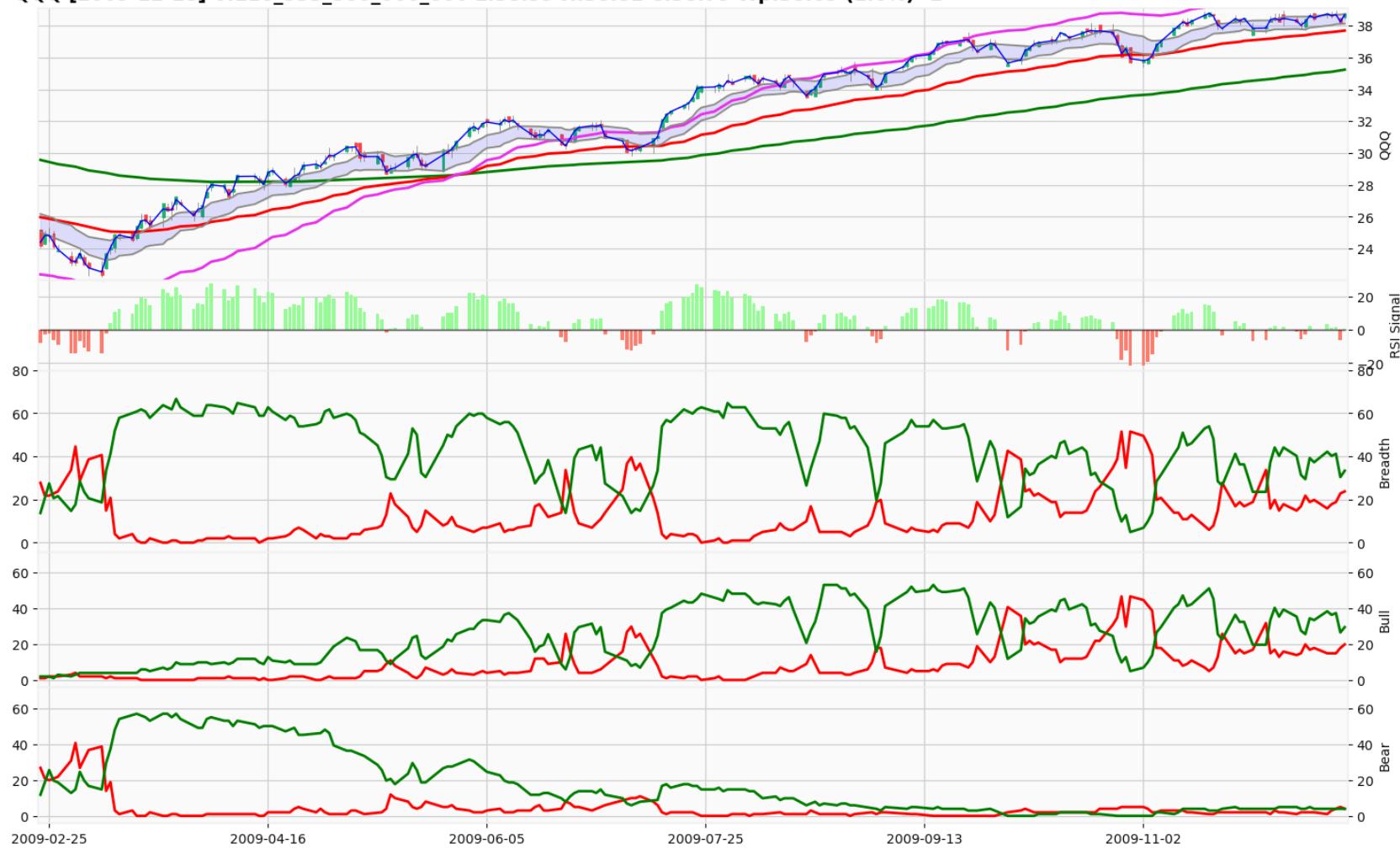


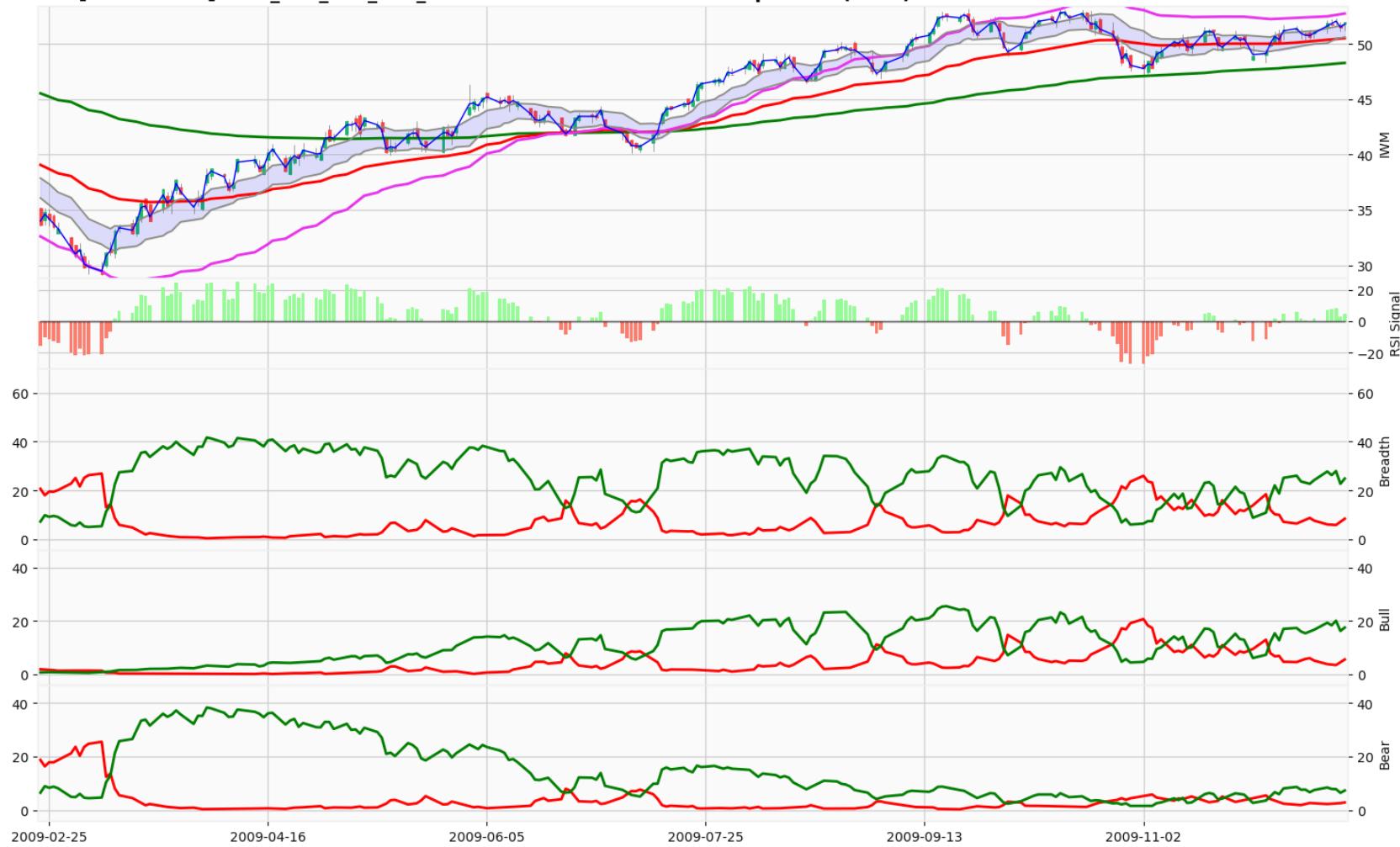
**IWM [2009-06-18] V:40\_388\_568\_506\_718 L:42.74 H:43.61 C:43.34 Wp:43.26 (0.5%) 0**

RSI Score Trend: 20080822-20090618

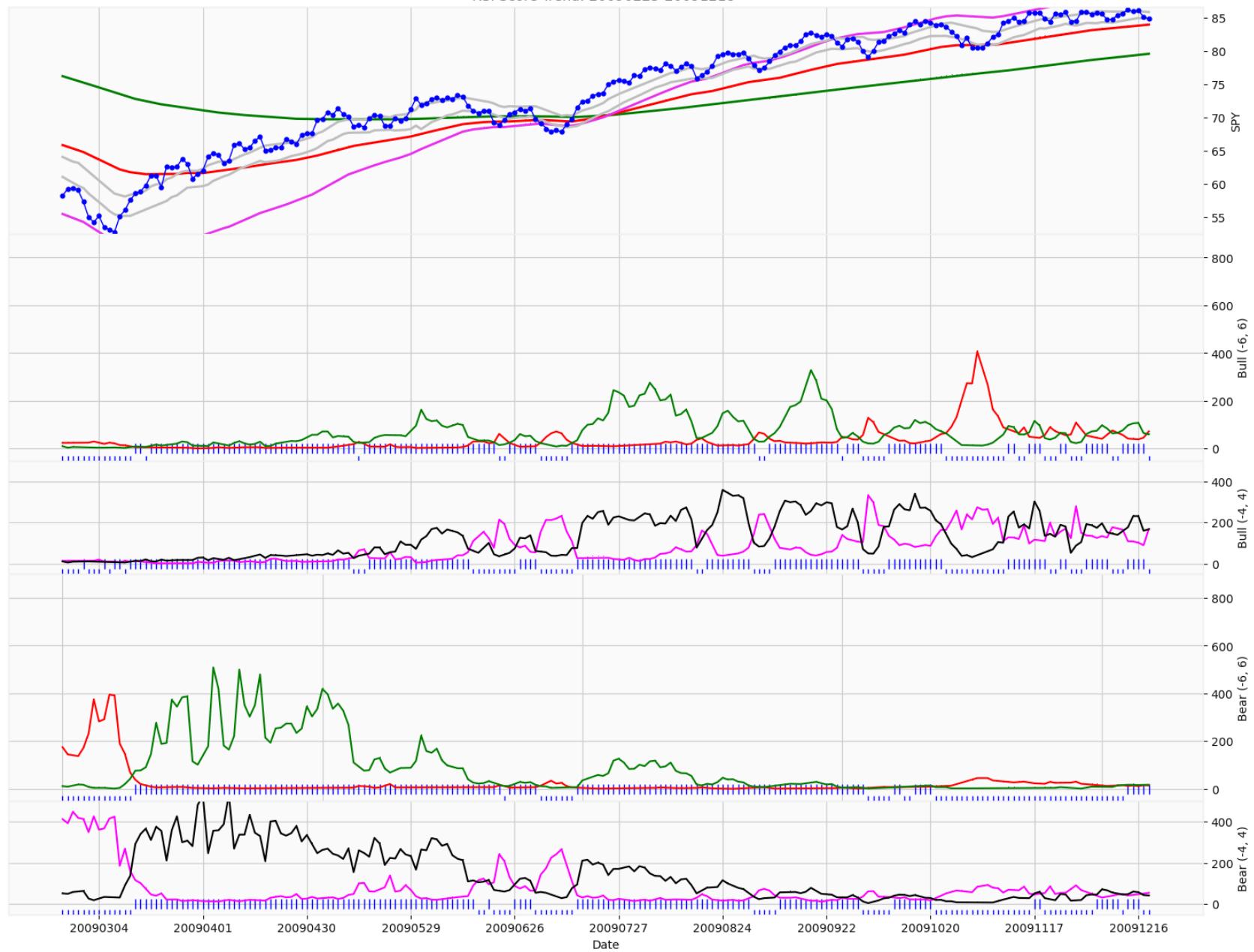


**SPY [2009-12-18] V:226\_288\_934\_000\_000 L:84.30 H:85.10 C:85.03 Wp:84.87 (0.0%) -3**

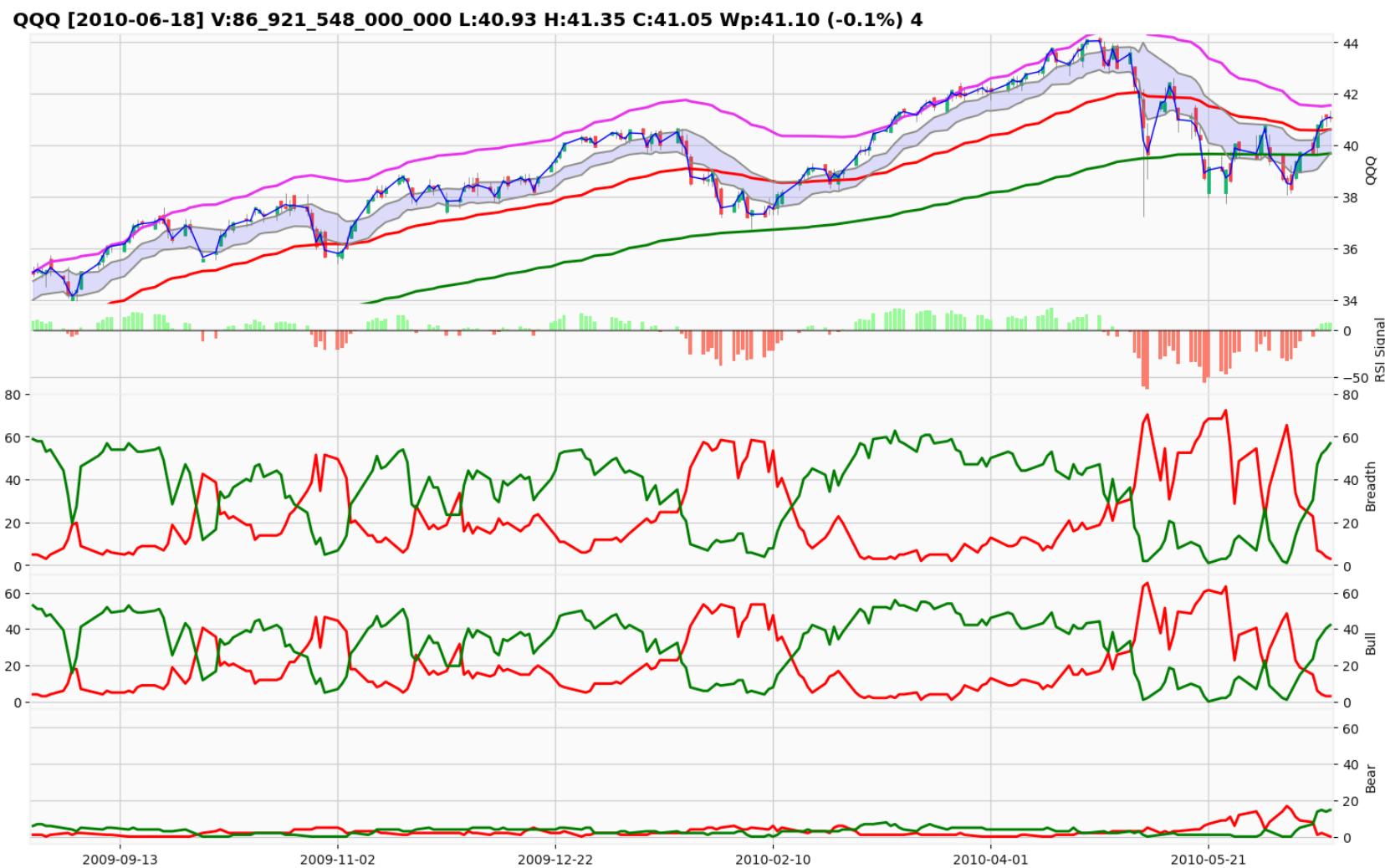
**QQQ [2009-12-18] V:110\_533\_500\_000\_000 L:38.39 H:38.81 C:38.79 Wp:38.69 (1.6%) -1**

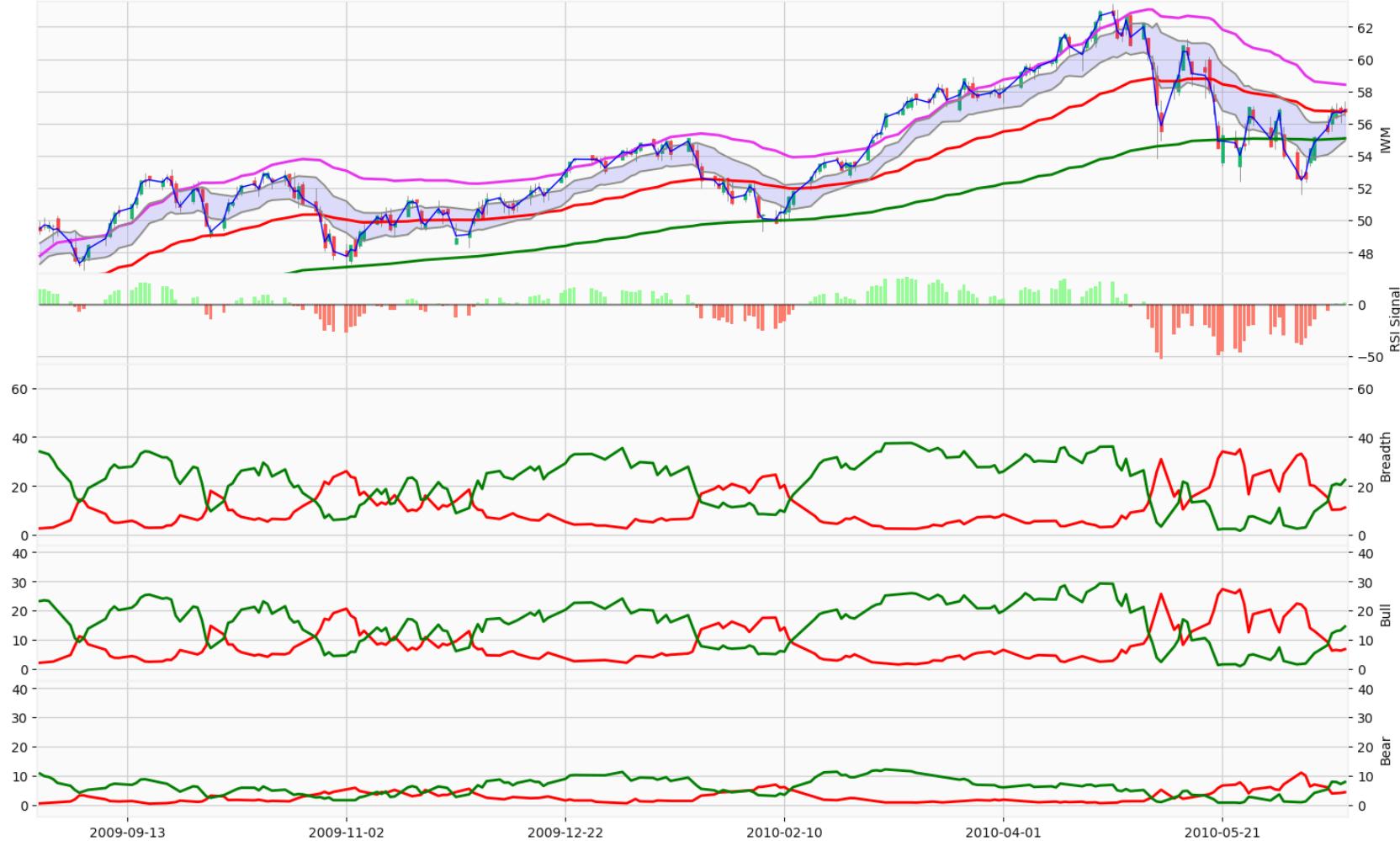
**IWM [2009-12-18] V:75\_174\_023\_460\_226 L:51.26 H:51.99 C:51.99 Wp:51.81 (0.9%) 0**

RSI Score Trend: 20090223-20091218

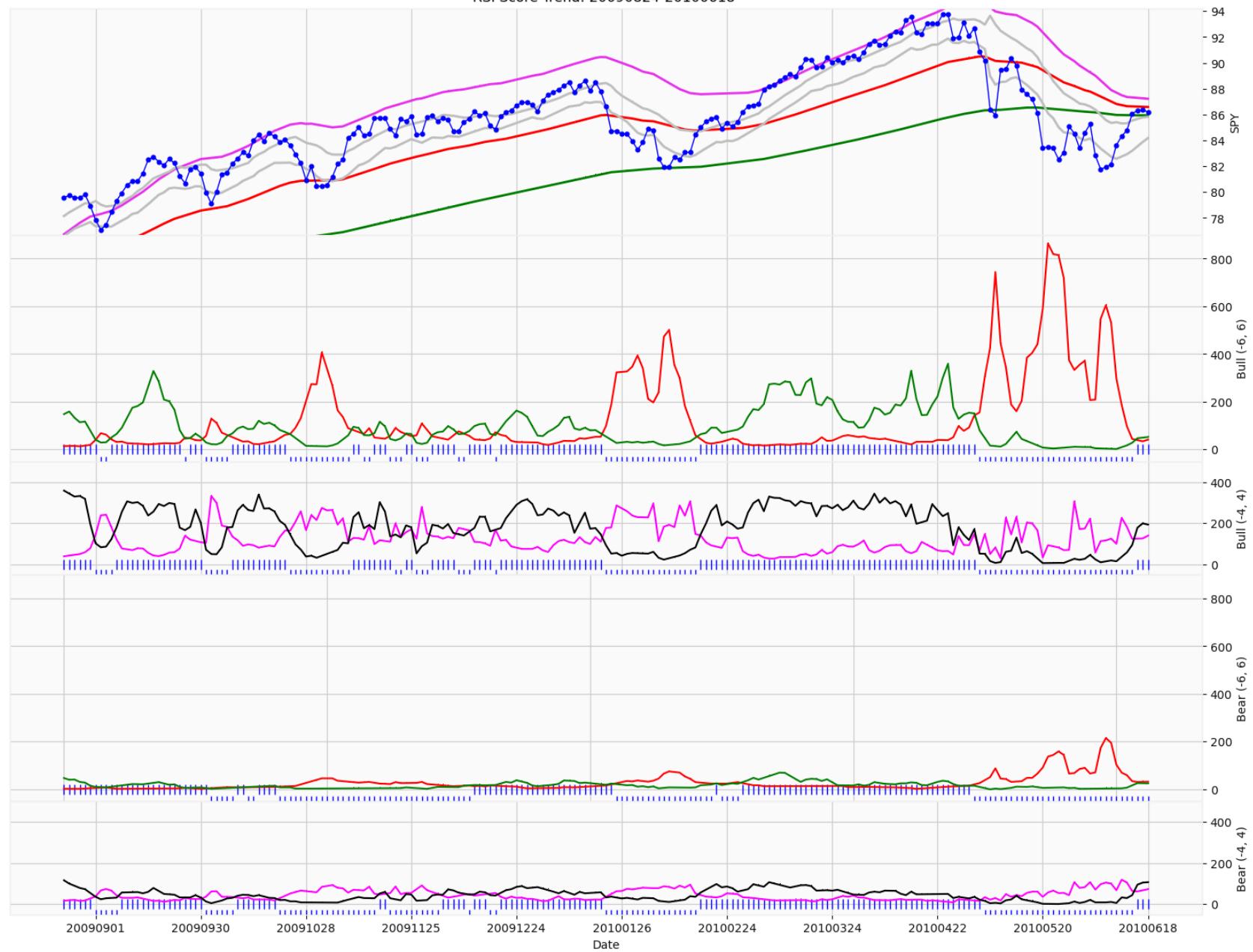


**SPY [2010-06-18] V:225\_531\_238\_000\_000 L:85.92 H:86.51 C:86.19 Wp:86.20 (-0.4%) 1**

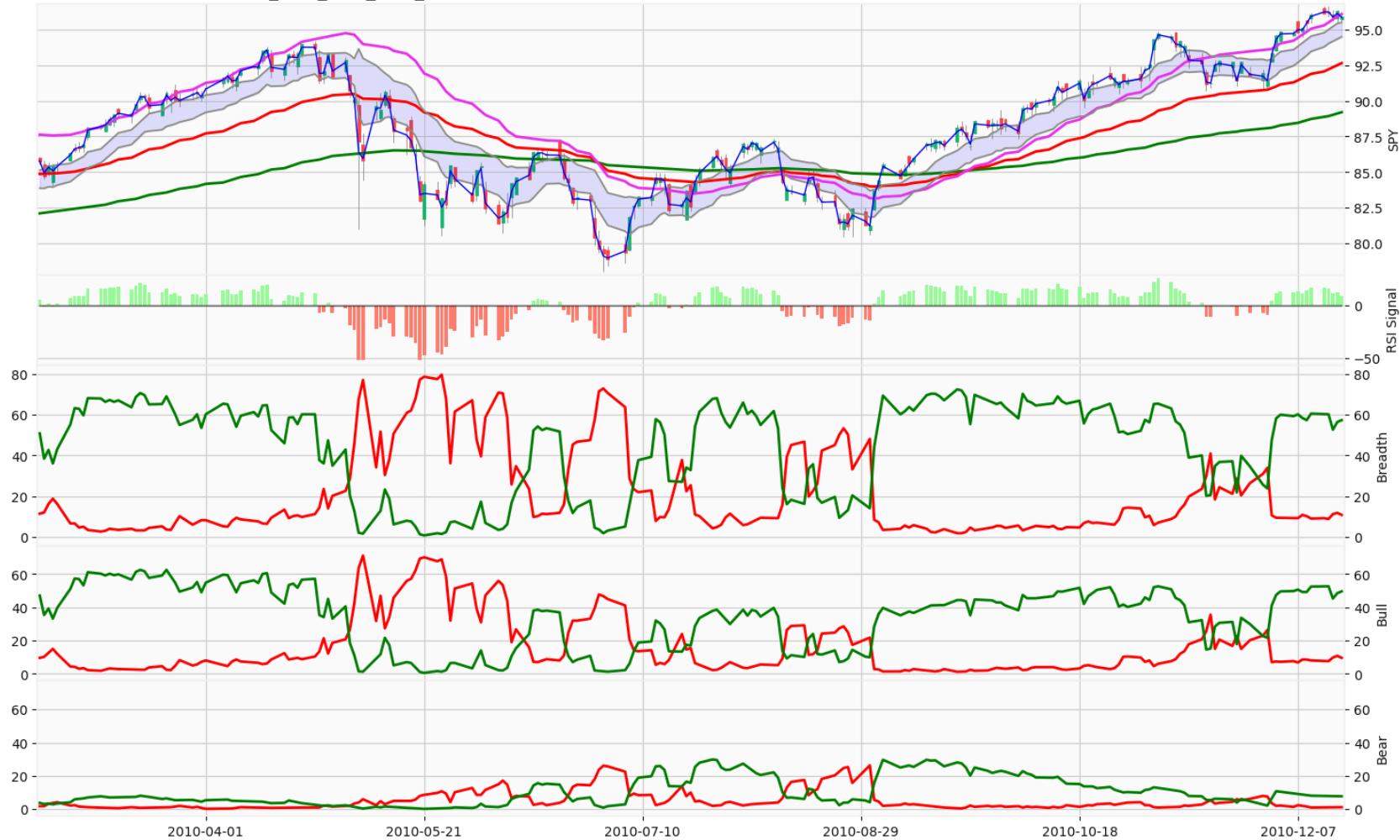


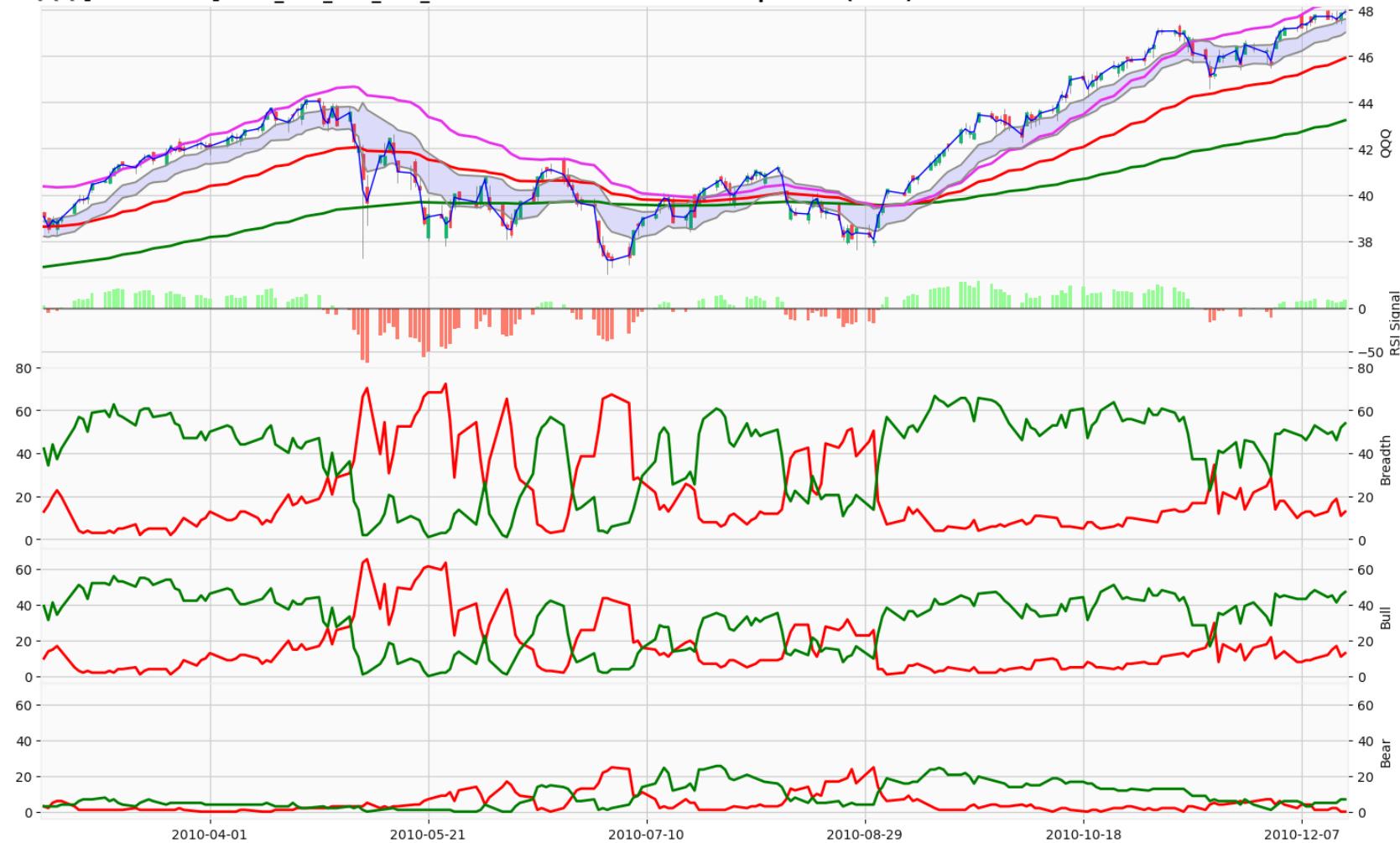
**IWM [2010-06-18] V:62\_098\_194\_159\_756 L:56.46 H:57.38 C:56.76 Wp:56.84 (0.1%) 0**

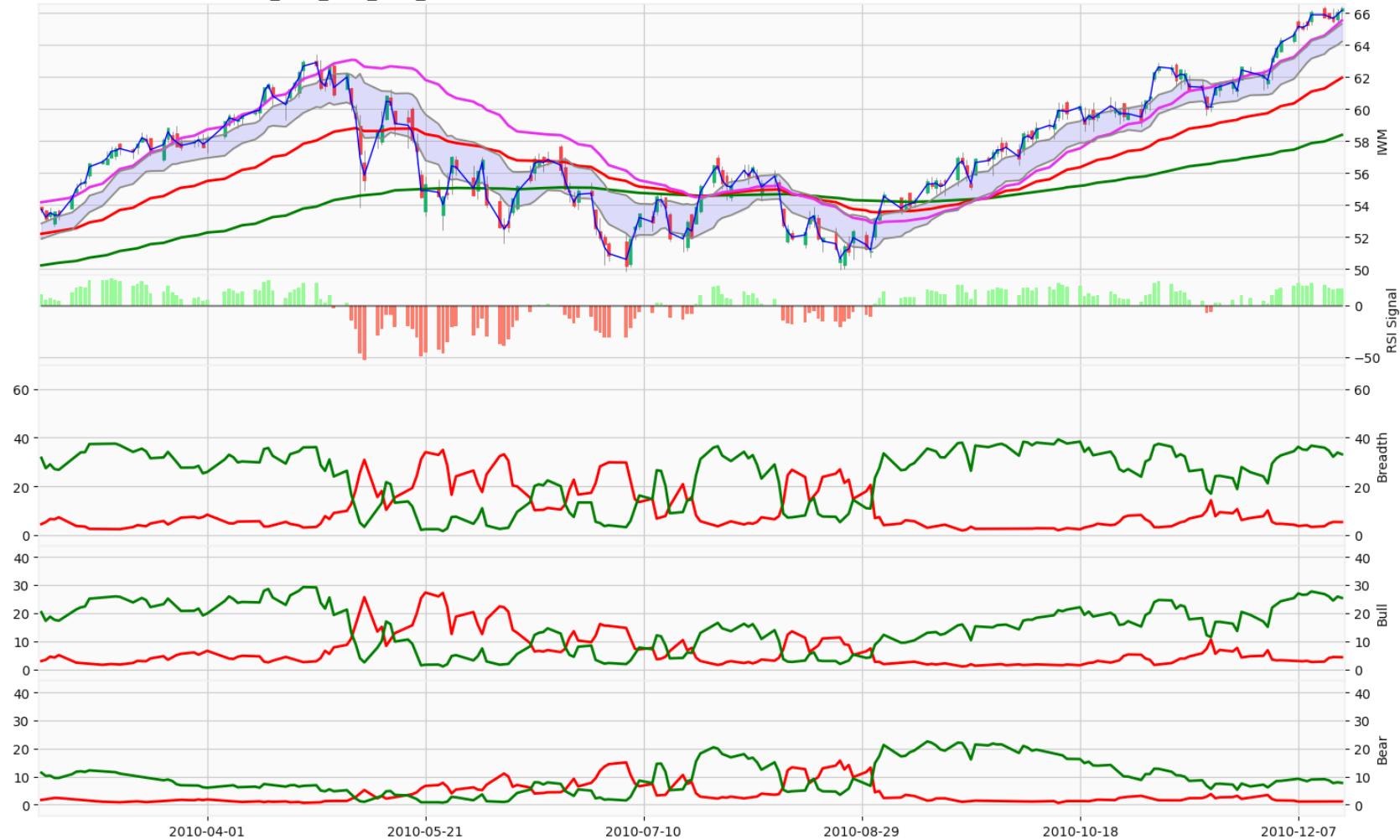
RSI Score Trend: 20090824-20100618



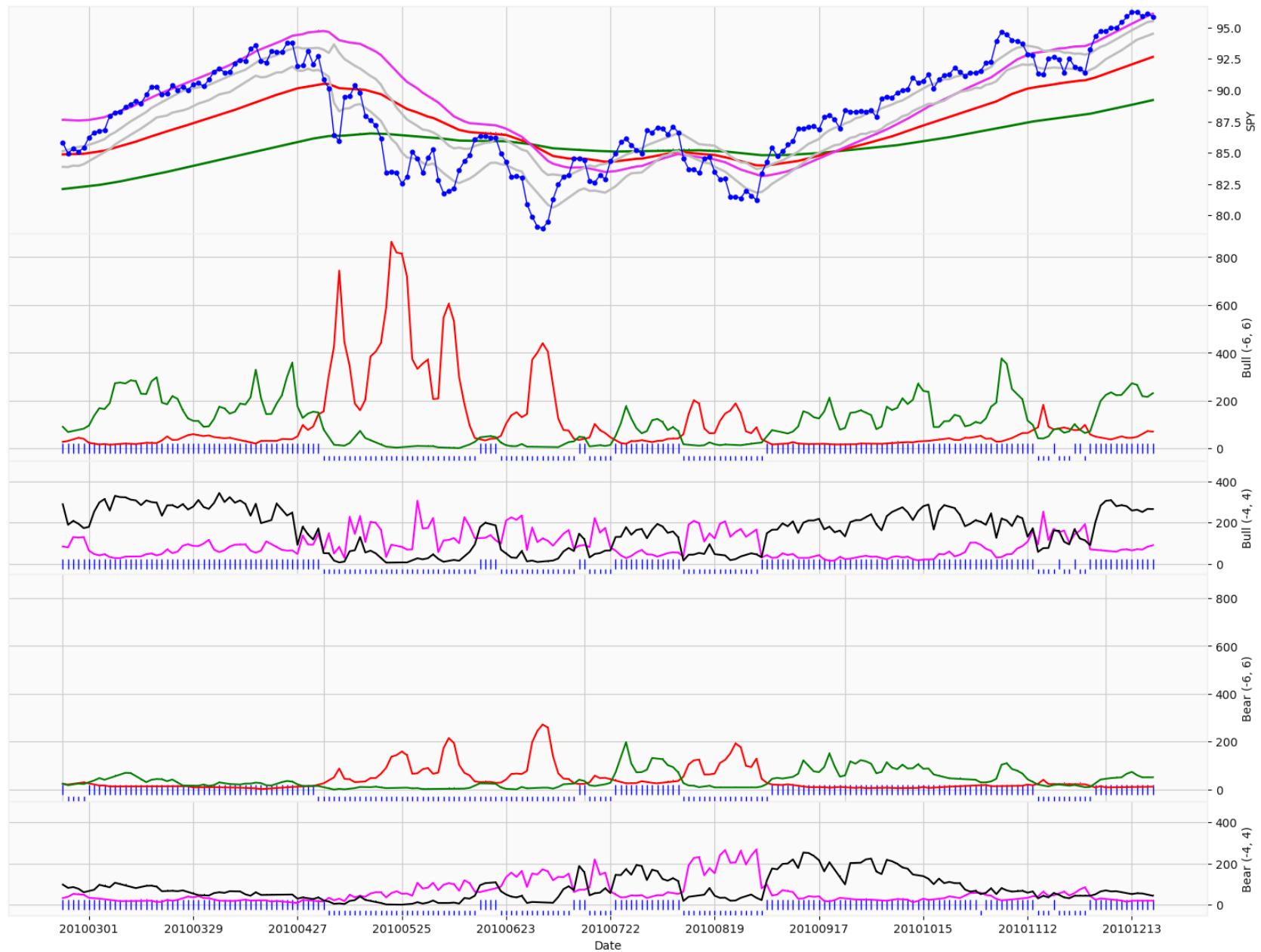
SPY [2010-12-17] V:115\_479\_390\_000\_000 L:95.54 H:96.04 C:95.91 Wp:95.85 (-0.4%) 4



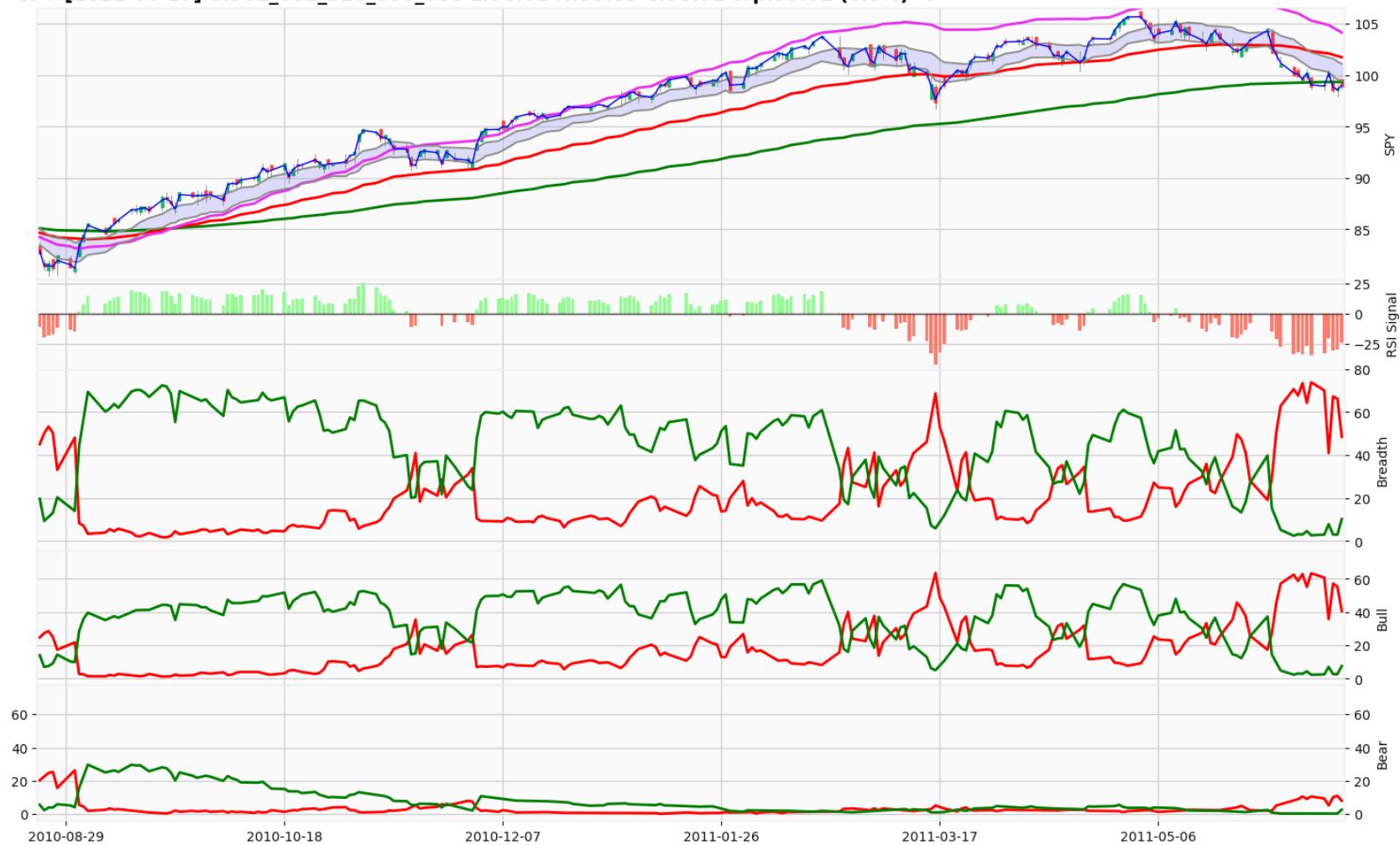
**QQQ [2010-12-17] V:41\_918\_011\_000\_000 L:47.82 H:48.06 C:47.92 Wp:47.93 (0.1%) 4**

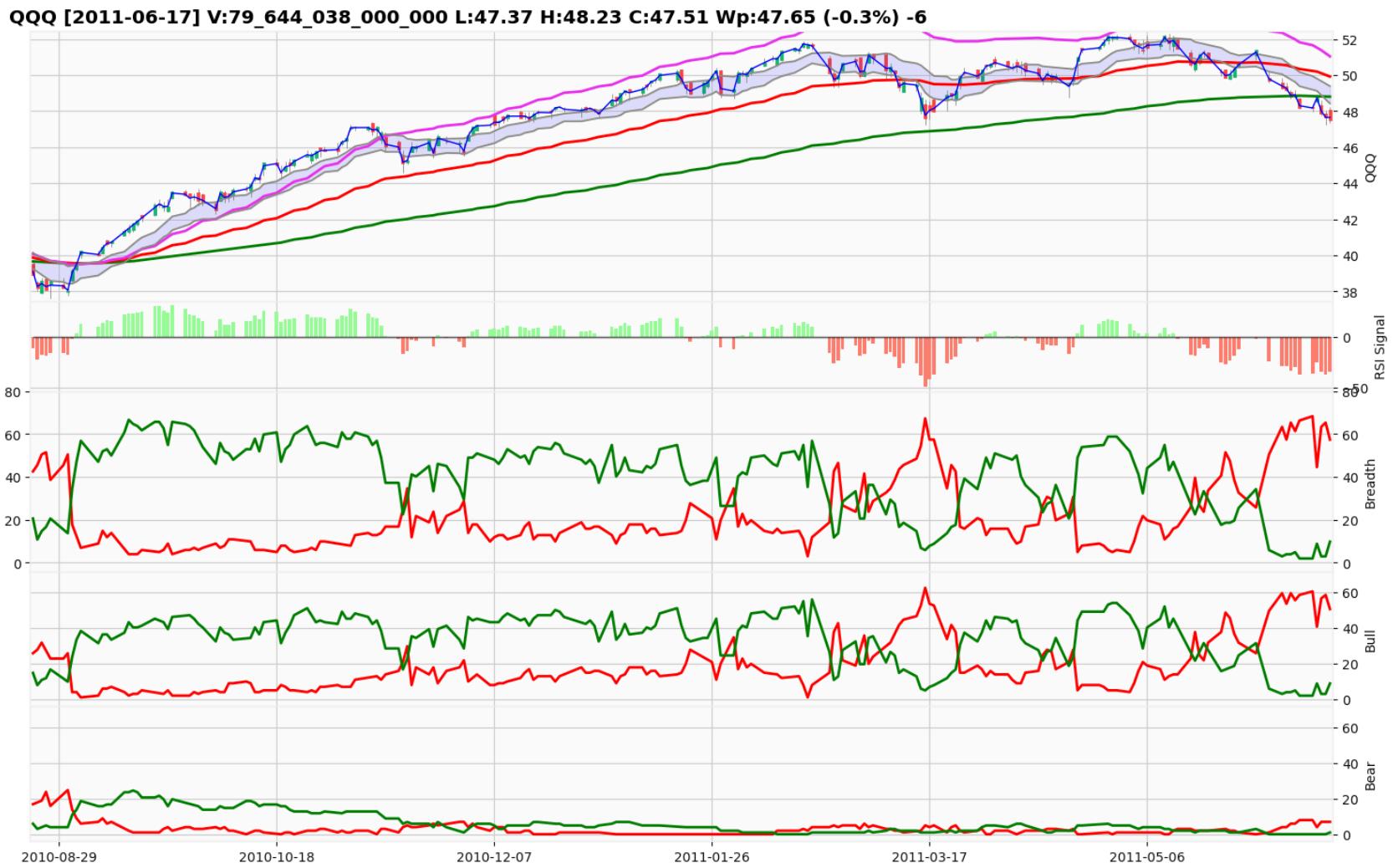
**IWM [2010-12-17] V:39\_499\_372\_612\_788 L:65.67 H:66.42 C:66.29 Wp:66.17 (0.3%) 4**

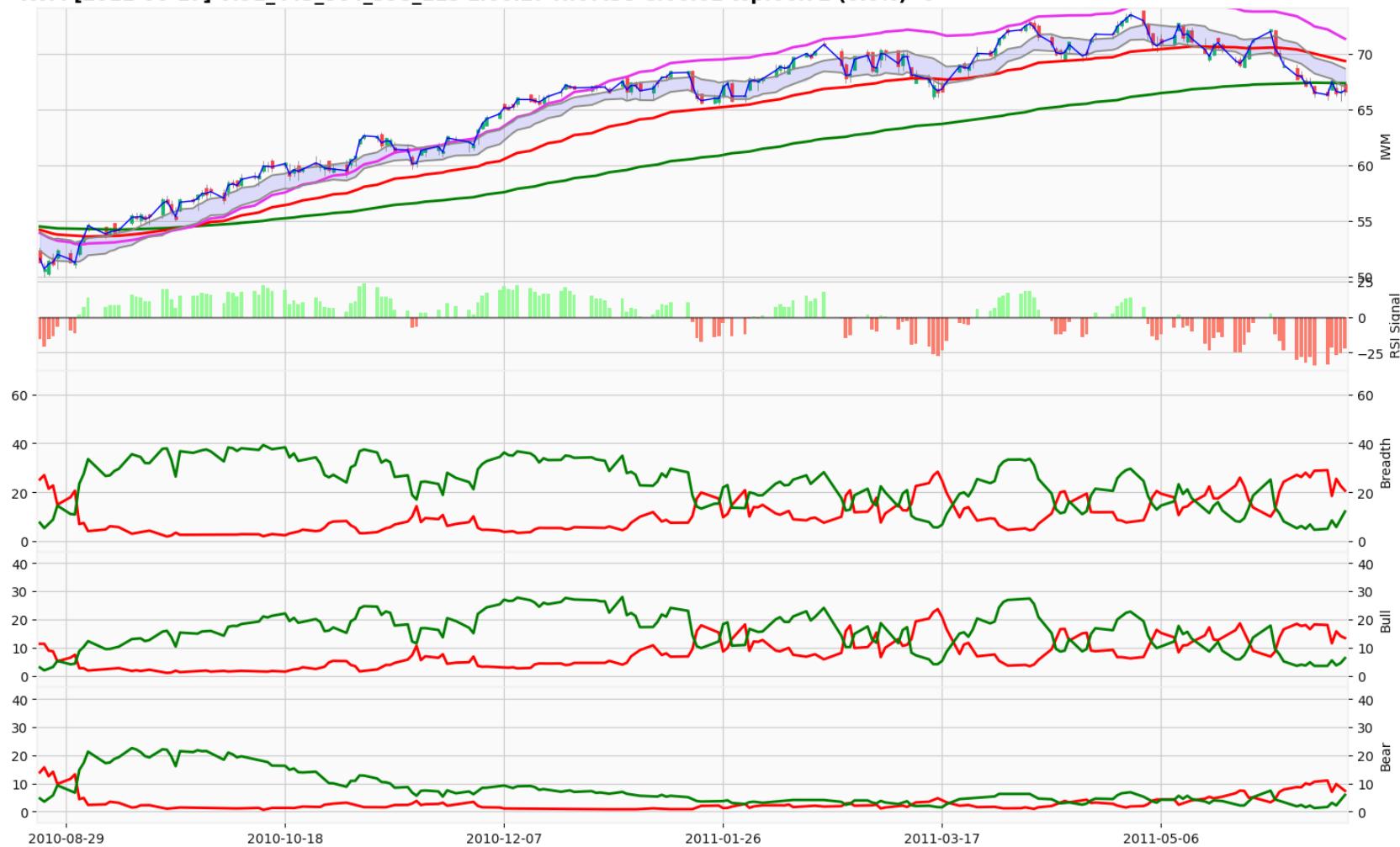
RSI Score Trend: 20100222-20101218



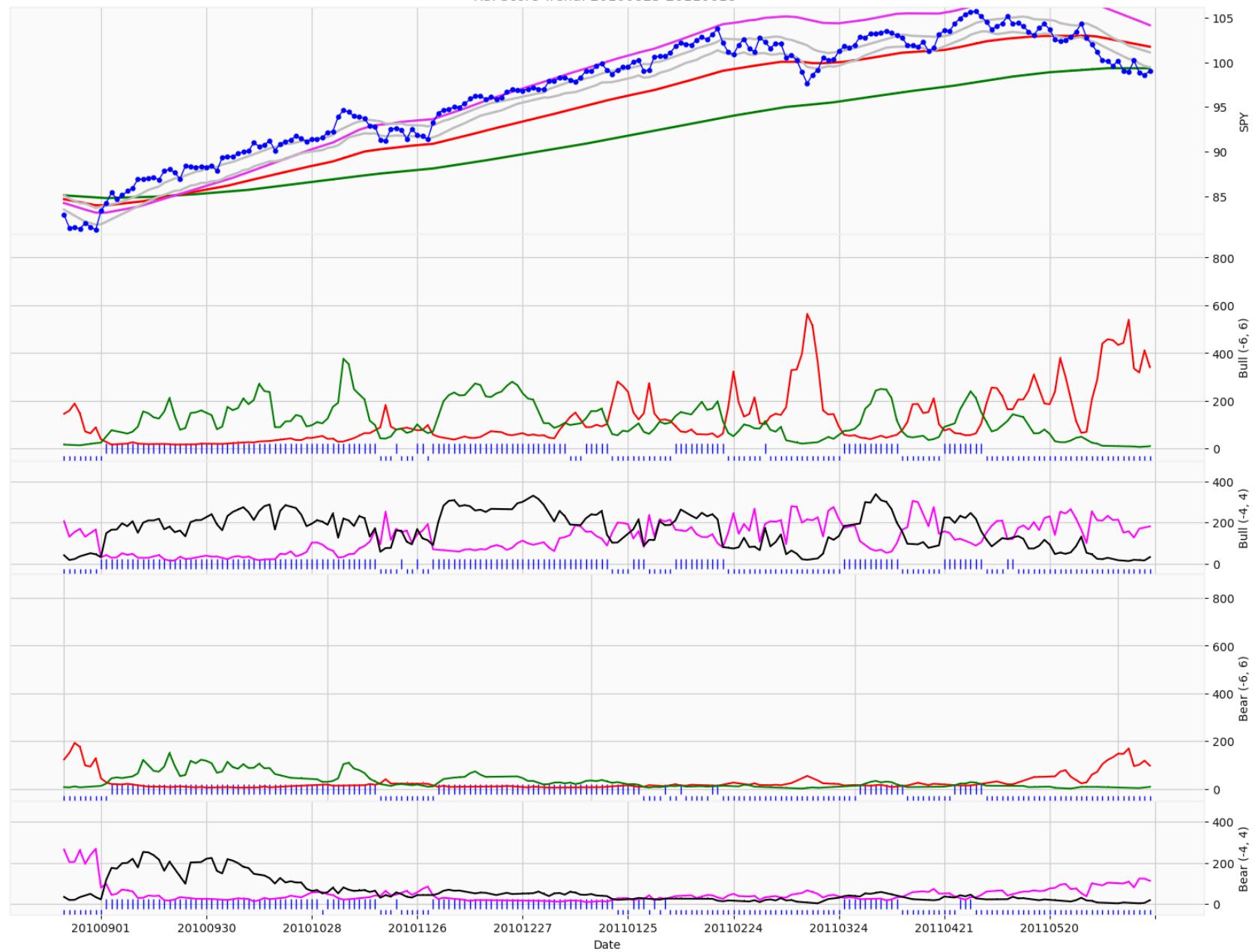
SPY [2011-06-17] V:301\_601\_326\_000\_000 L:98.61 H:99.63 C:98.92 Wp:99.02 (0.3%) -6



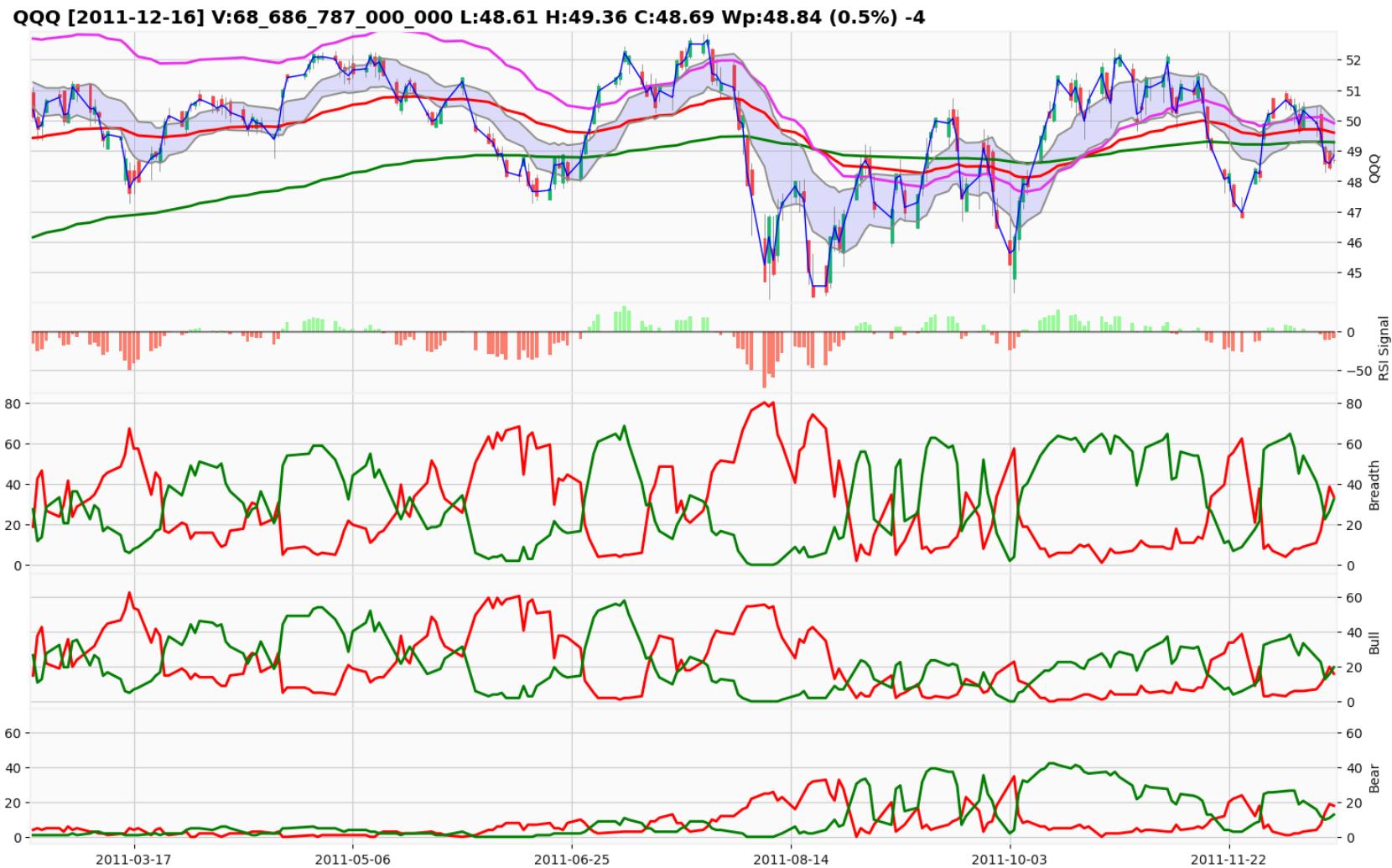


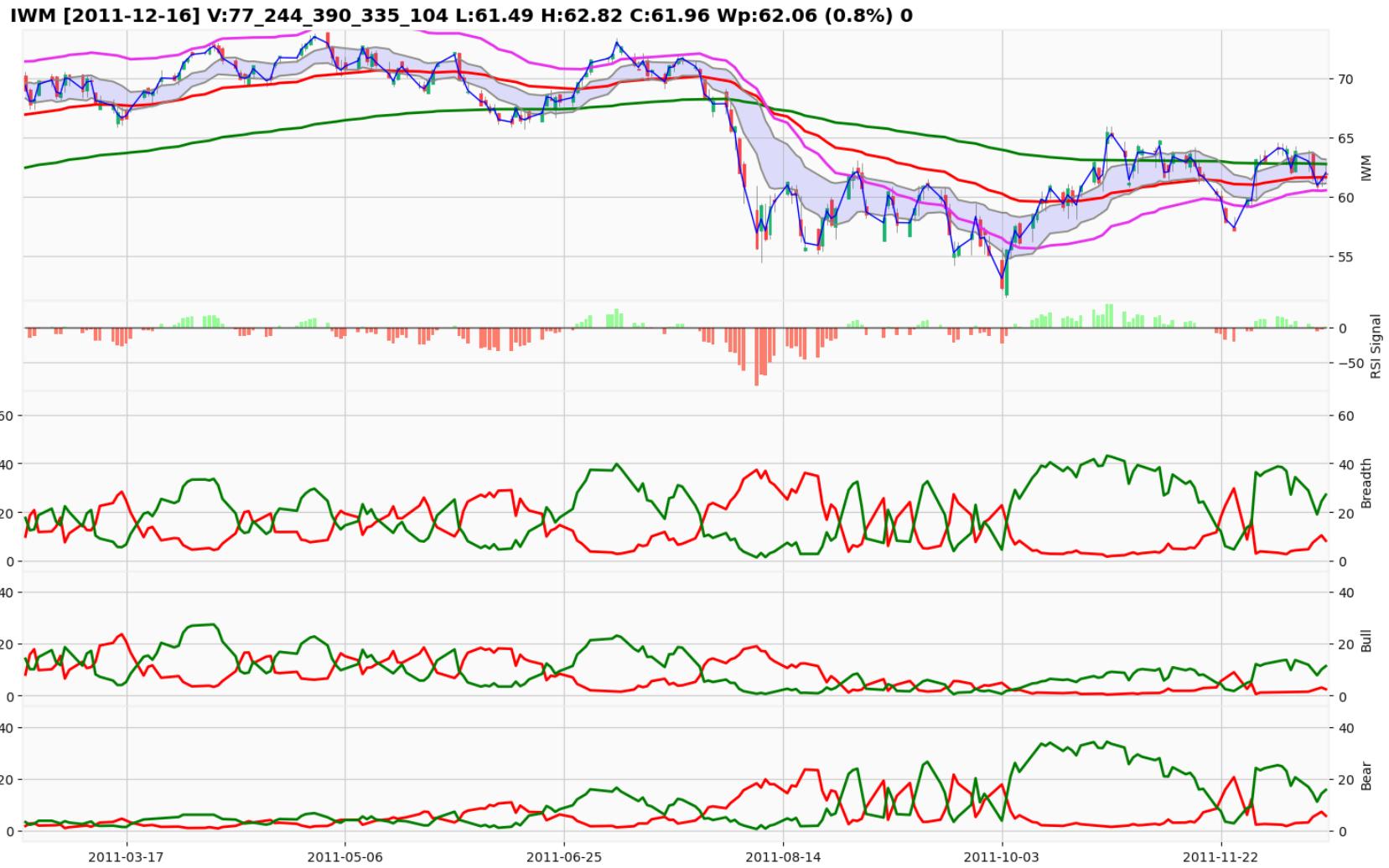
**IWM [2011-06-17] V:91\_443\_564\_398\_115 L:66.27 H:67.38 C:66.61 Wp:66.72 (0.0%) -6**

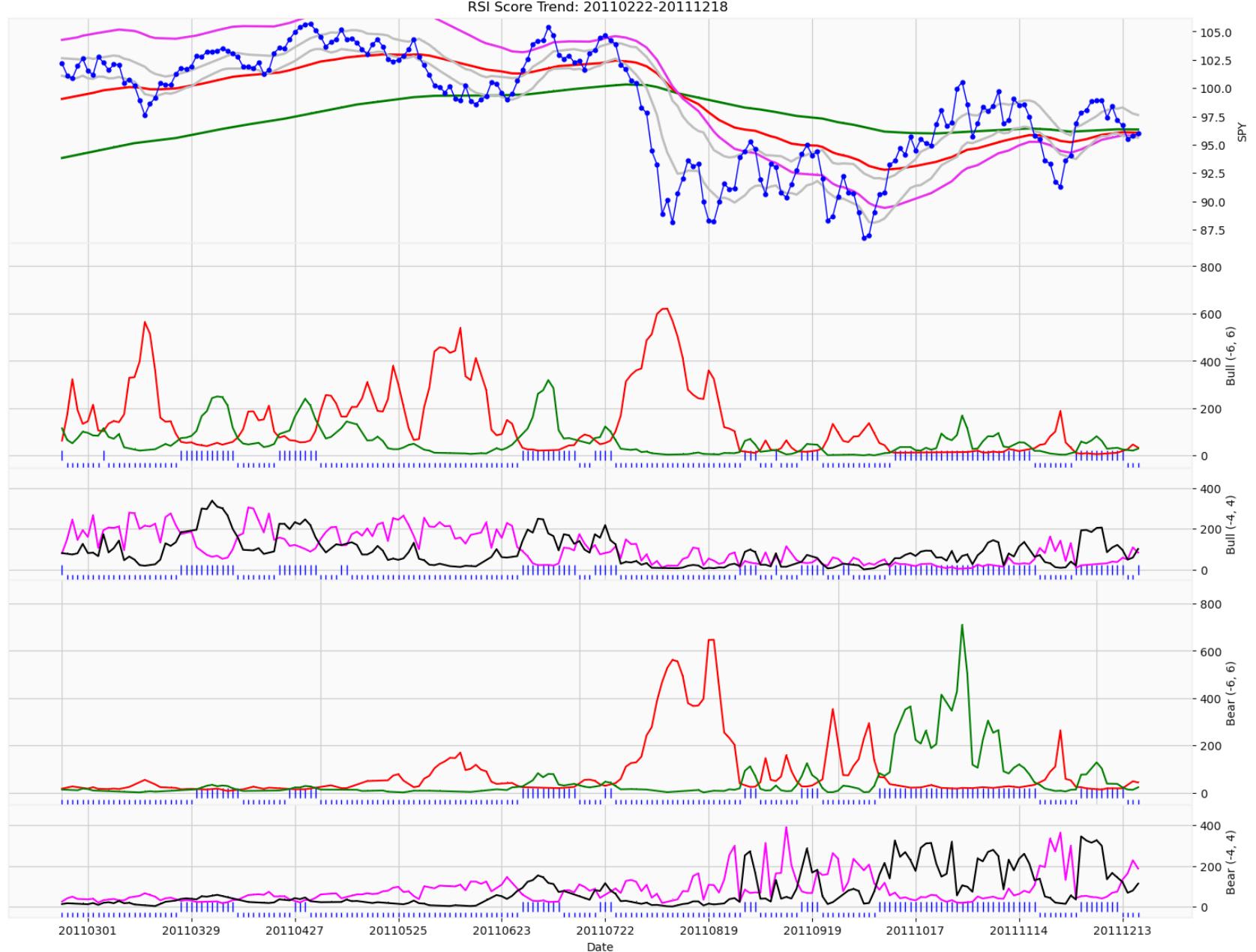
RSI Score Trend: 20100823-20110618



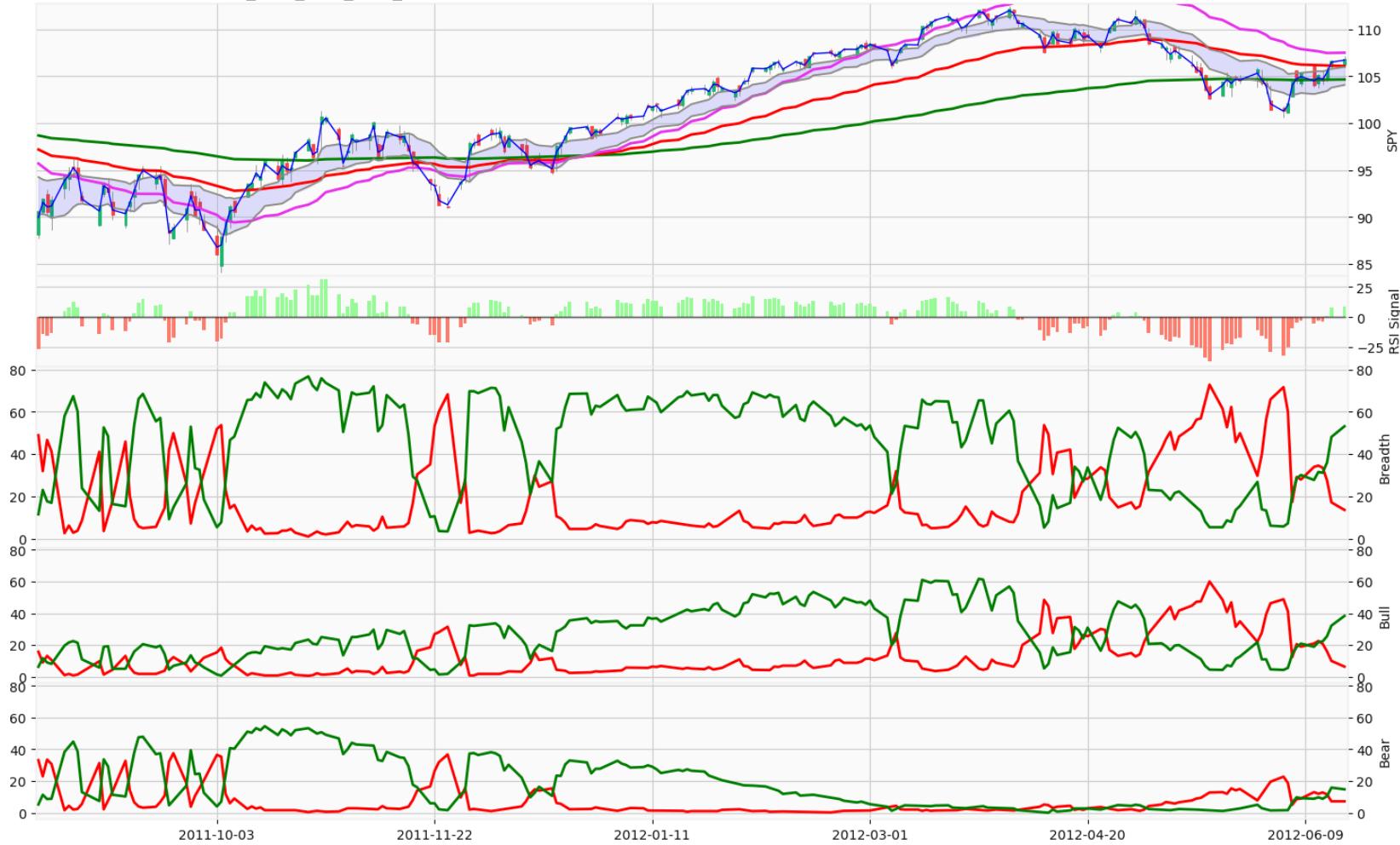
**SPY [2011-12-16] V:279\_857\_151\_000\_000 L:95.56 H:96.83 C:95.78 Wp:95.99 (0.2%) 0**

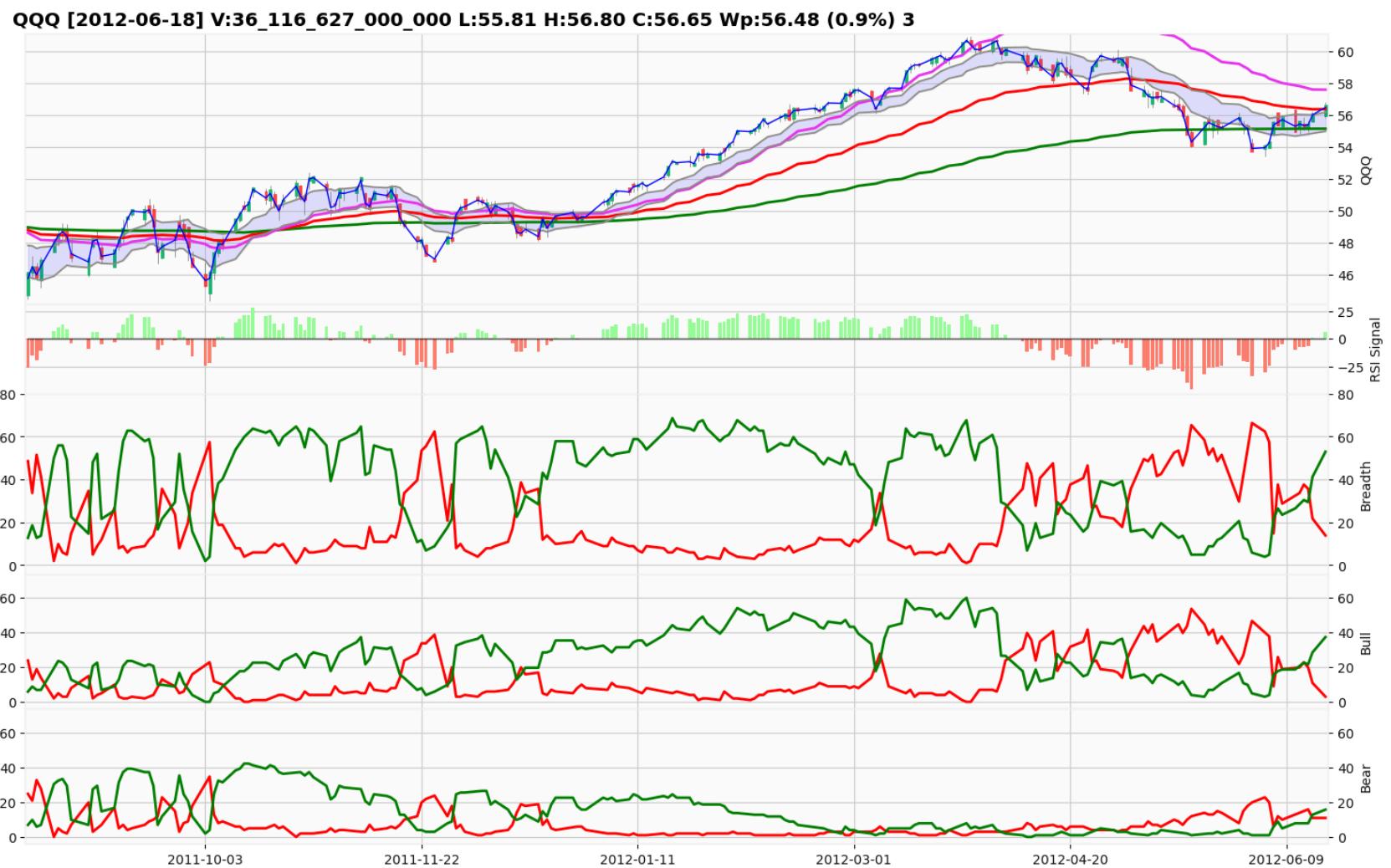


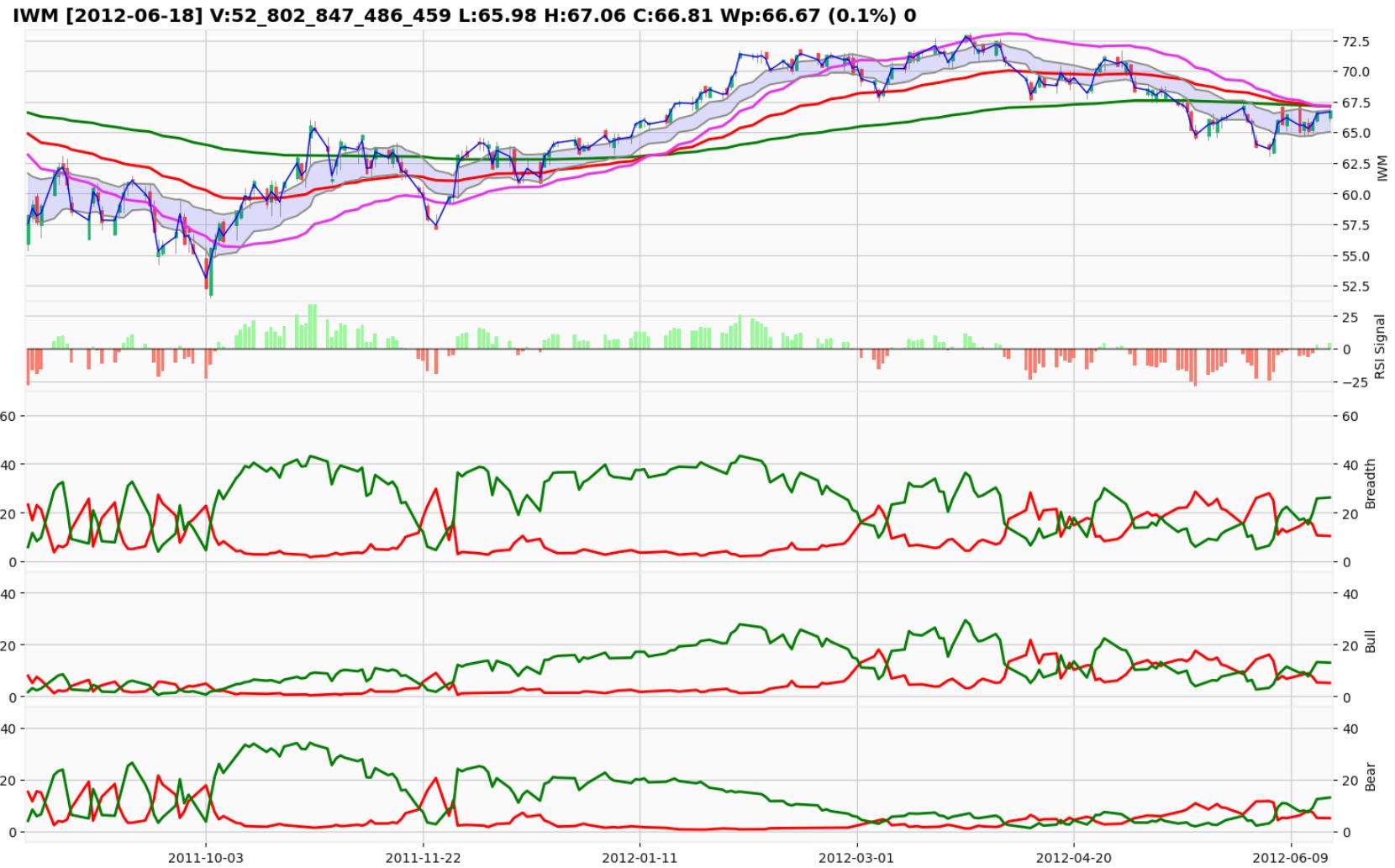




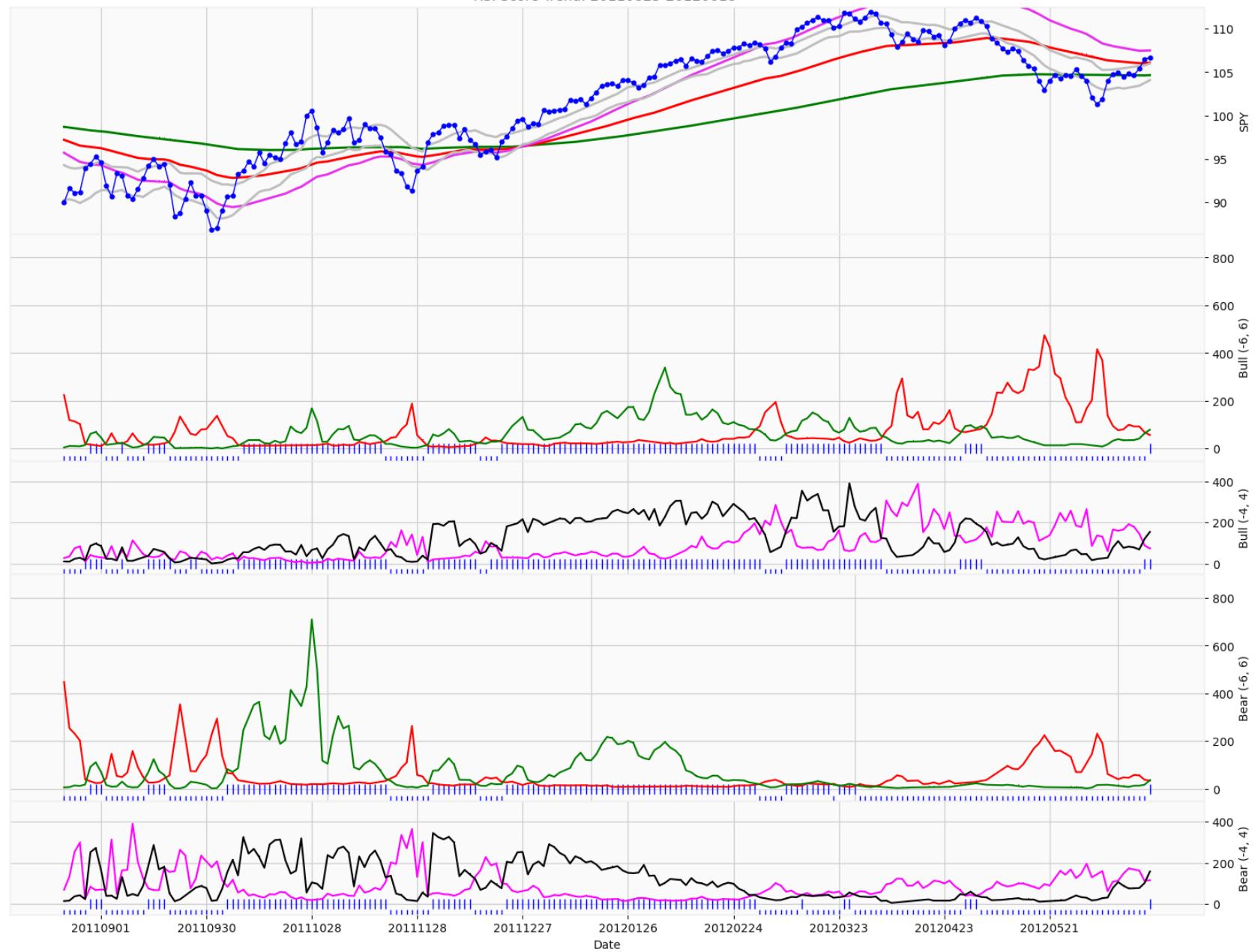
SPY [2012-06-18] V:165\_049\_710\_000\_000 L:105.98 H:107.13 C:106.86 Wp:106.71 (0.2%) 4







RSI Score Trend: 20110823-20120618

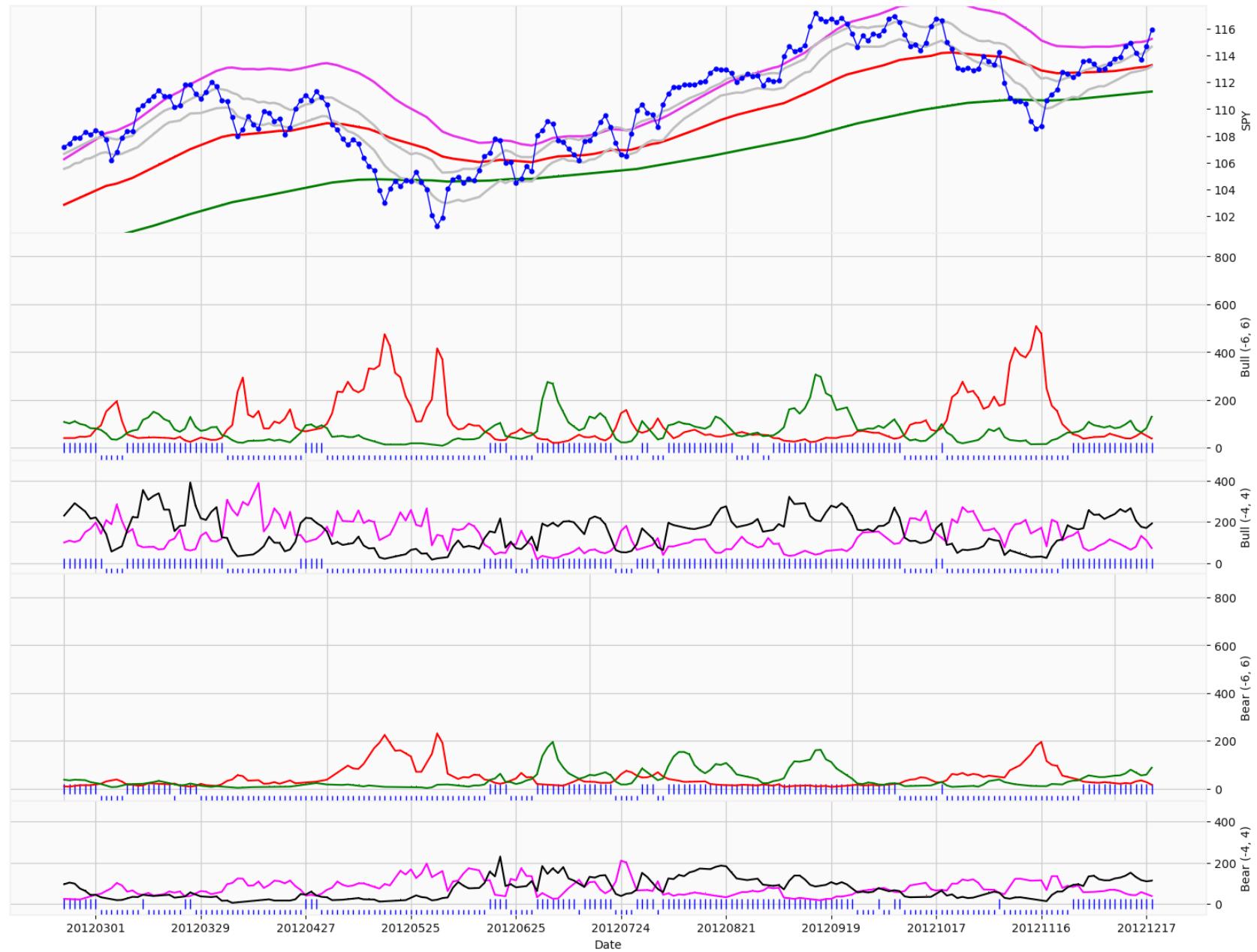


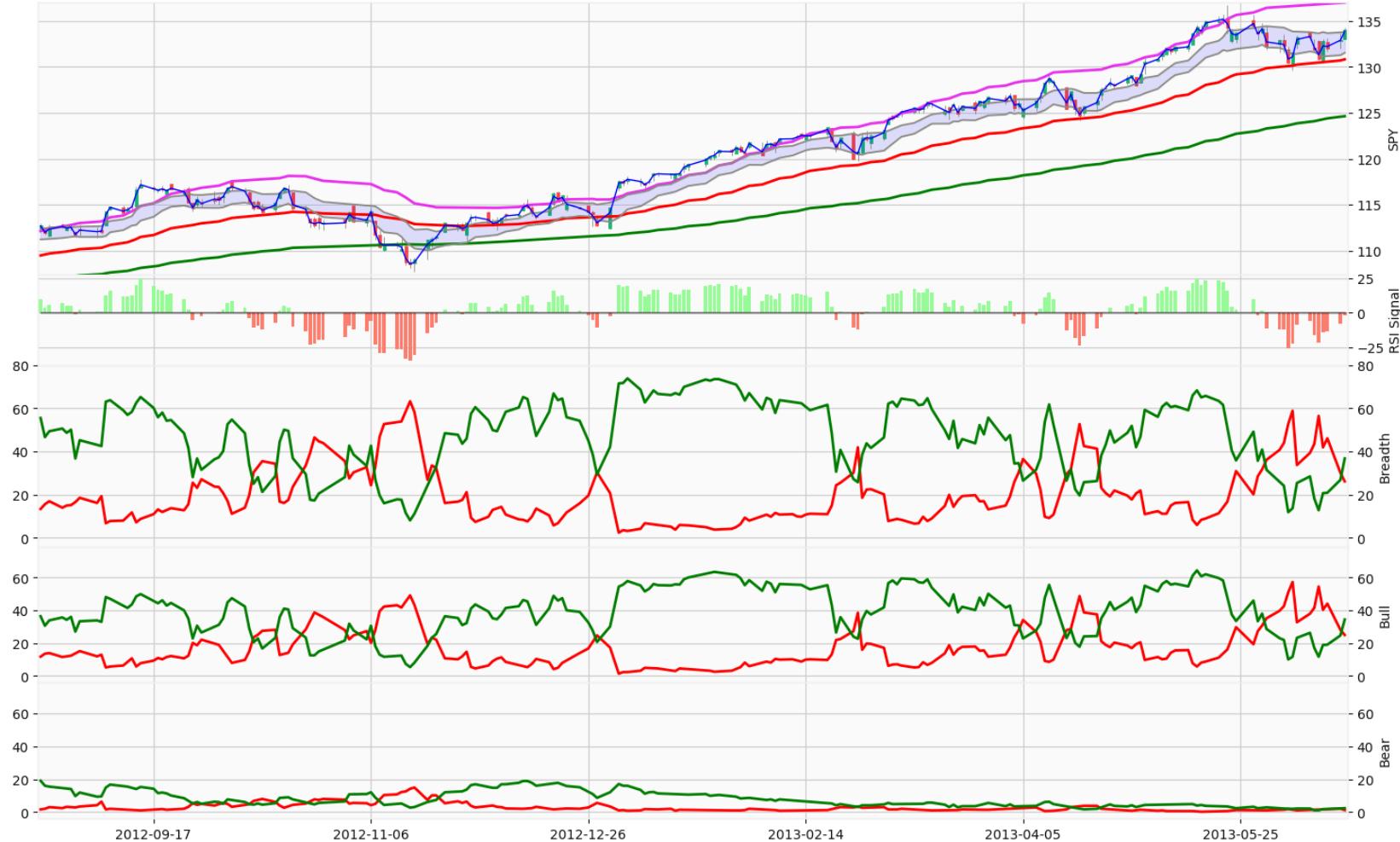
**SPY [2012-12-18] V:222\_310\_454\_000\_000 L:114.95 H:116.33 C:116.21 Wp:115.92 (1.1%) 4**

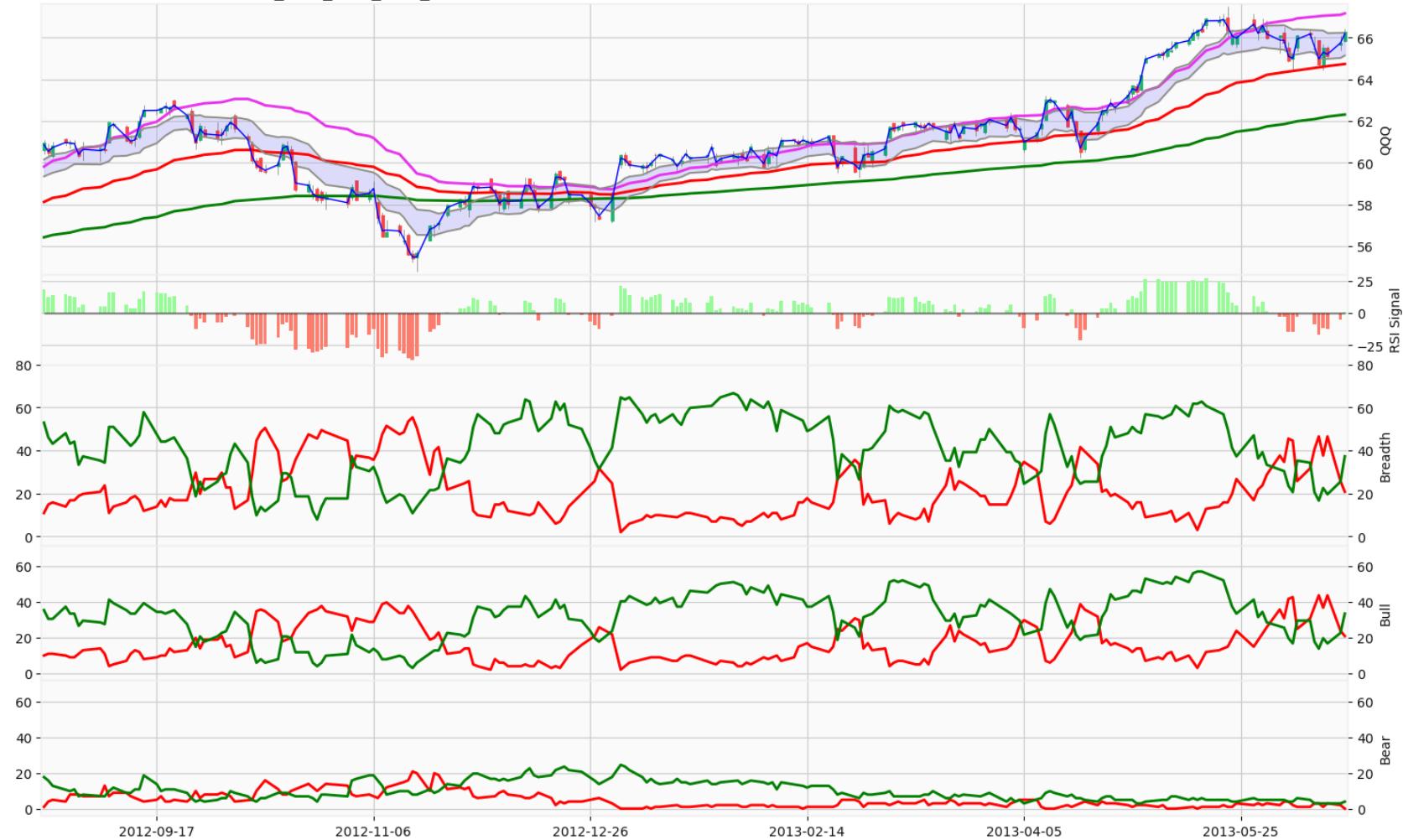


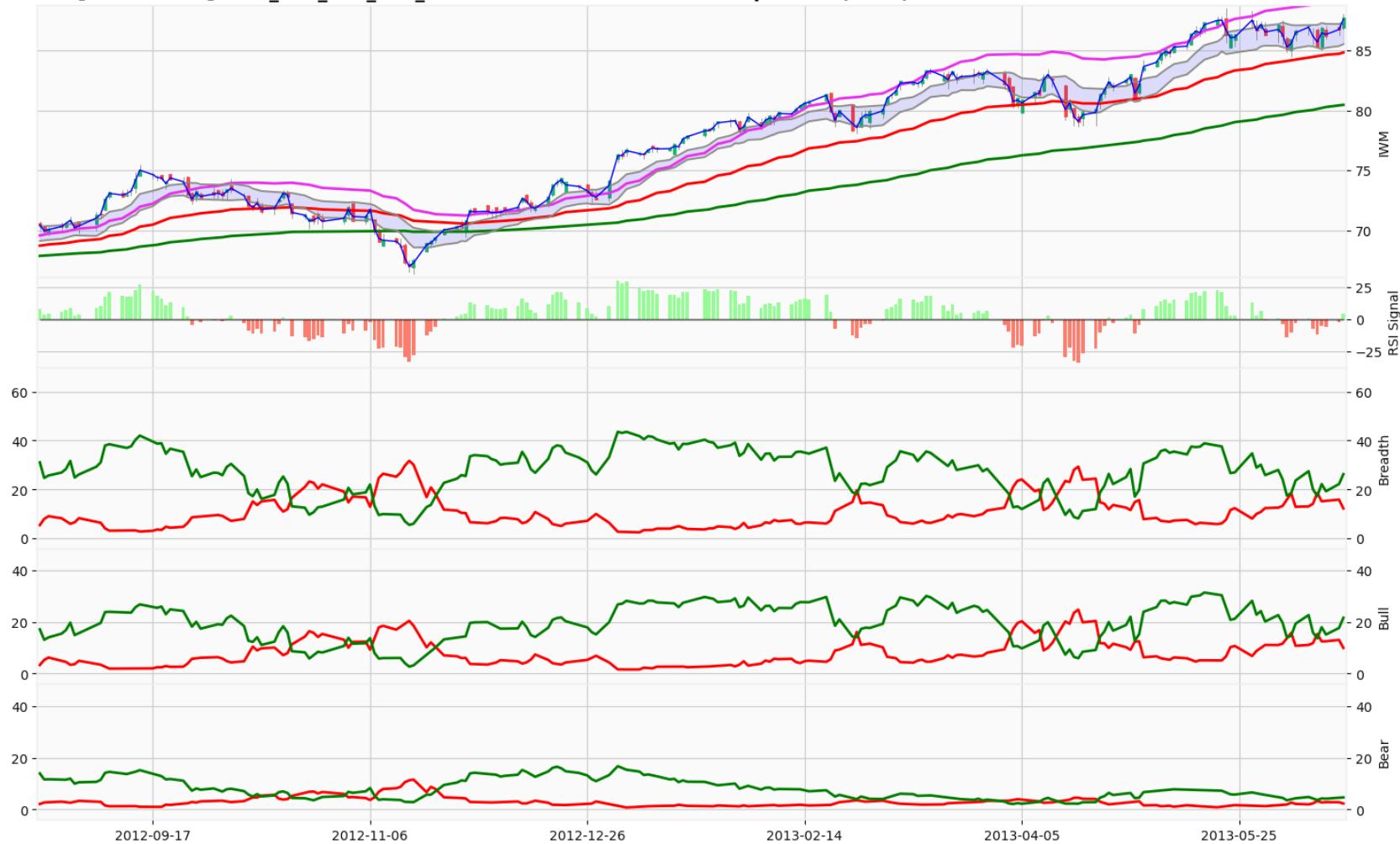
**IWM [2012-12-18] V:61\_364\_381\_977\_746 L:72.79 H:73.91 C:73.81 Wp:73.58 (1.4%) 5**

RSI Score Trend: 20120222-20121218

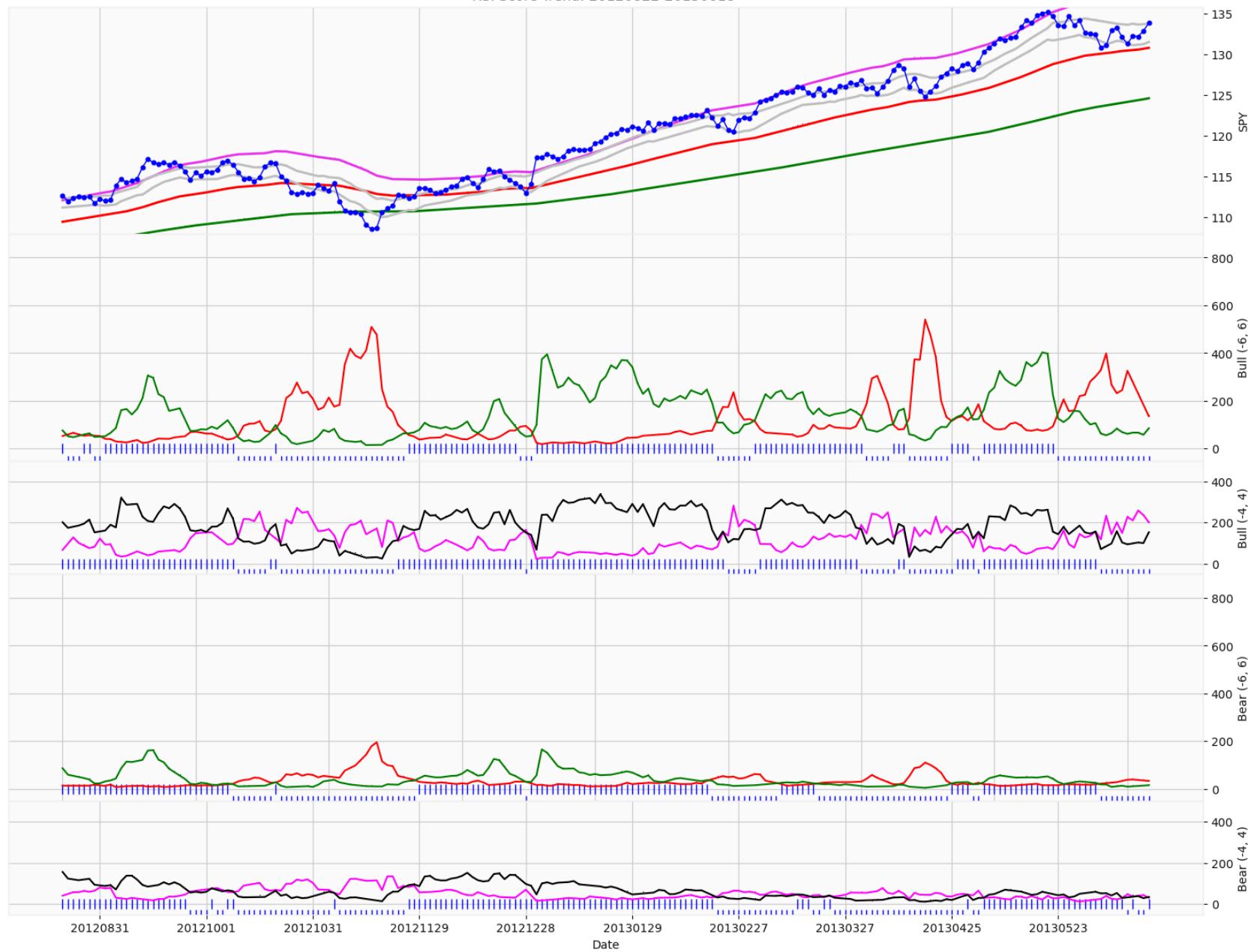


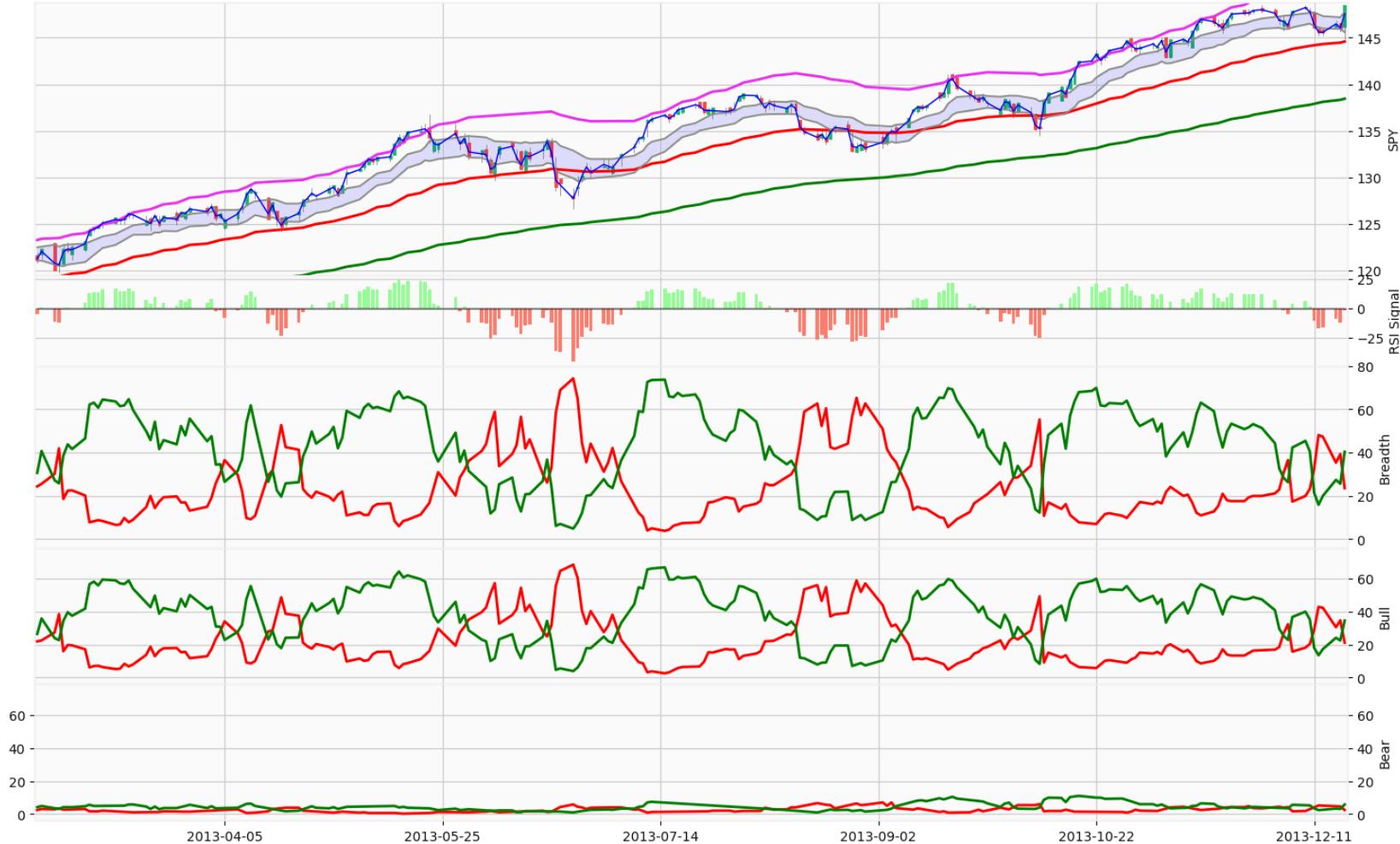
**SPY [2013-06-18] V:141\_742\_400\_000\_000 L:133.06 H:134.28 C:134.08 Wp:133.87 (0.8%) -1**

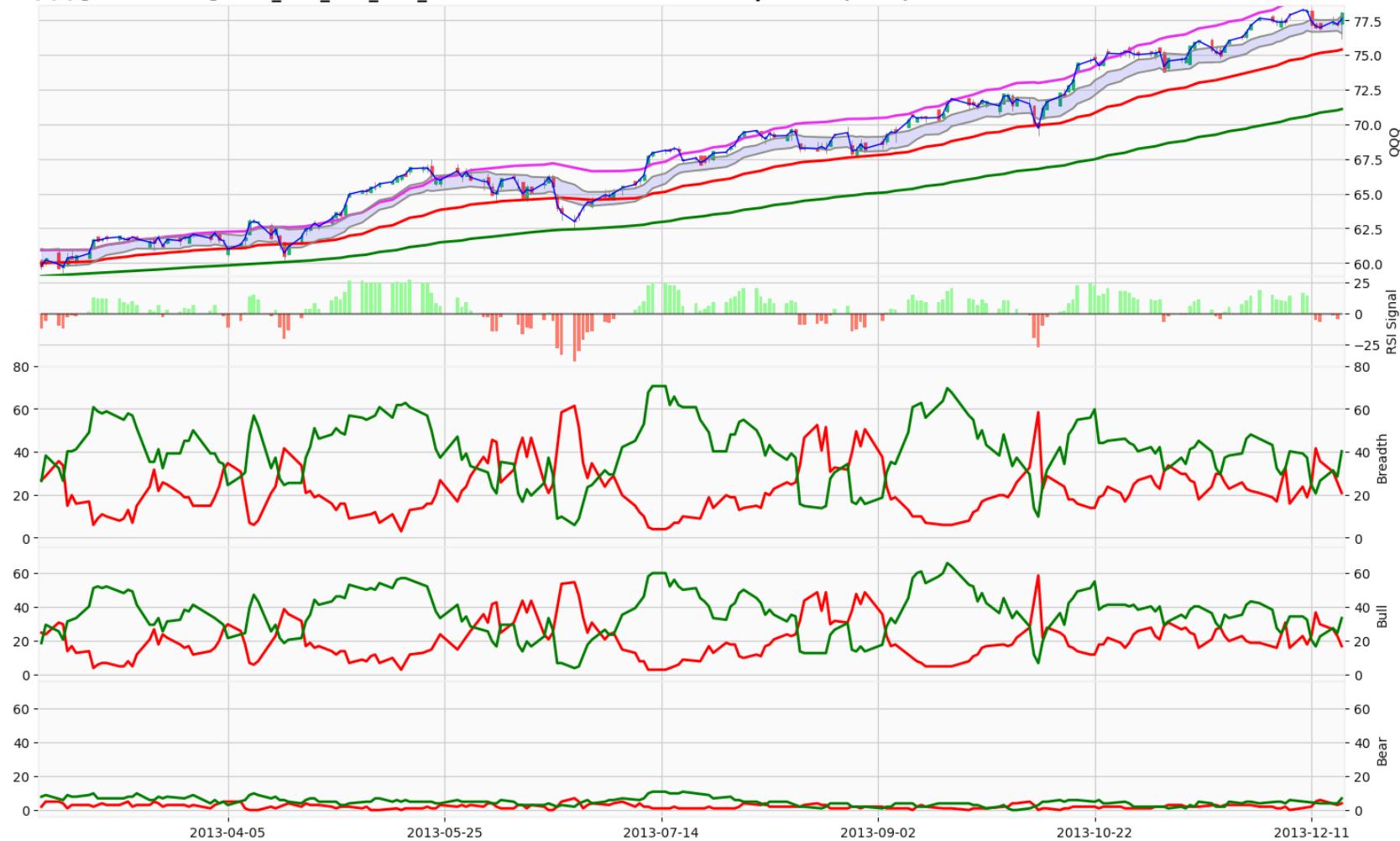
**QQQ [2013-06-18] V:27\_594\_070\_000\_000 L:65.81 H:66.40 C:66.28 Wp:66.19 (0.8%) 0**

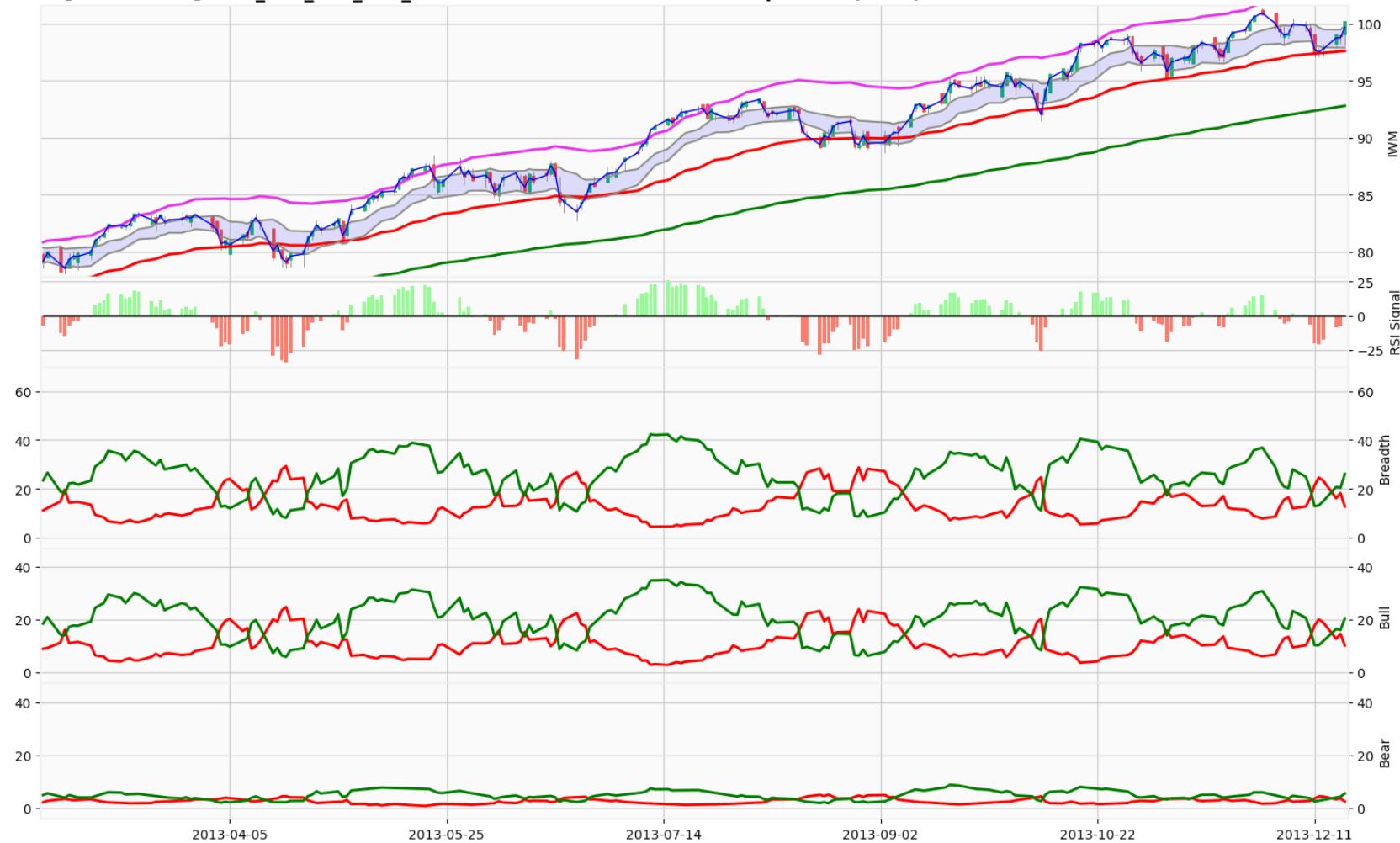
**IWM [2013-06-18] V:45\_943\_382\_519\_271 L:86.72 H:88.02 C:87.77 Wp:87.57 (1.2%) 0**

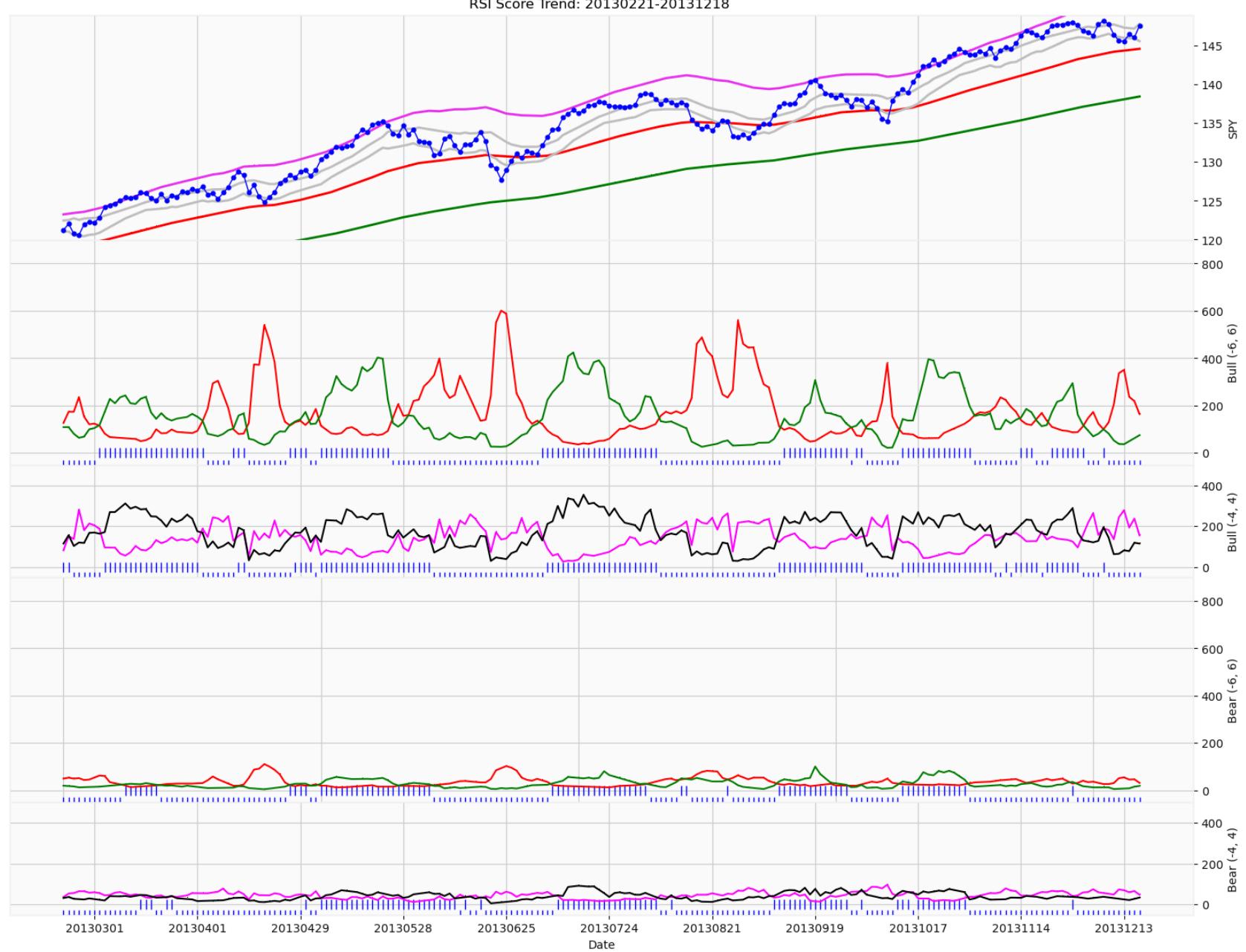
RSI Score Trend: 20120822-20130618

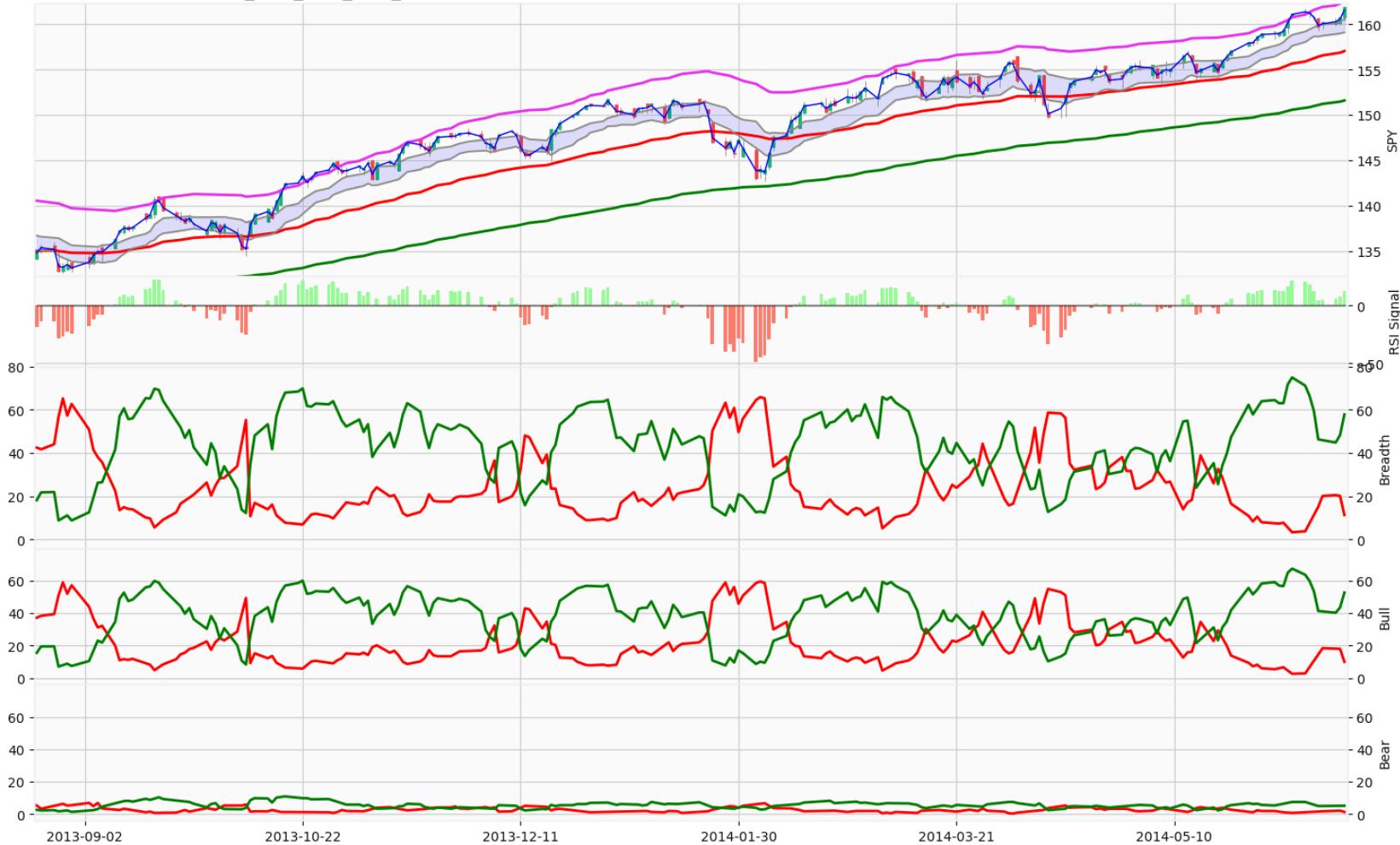


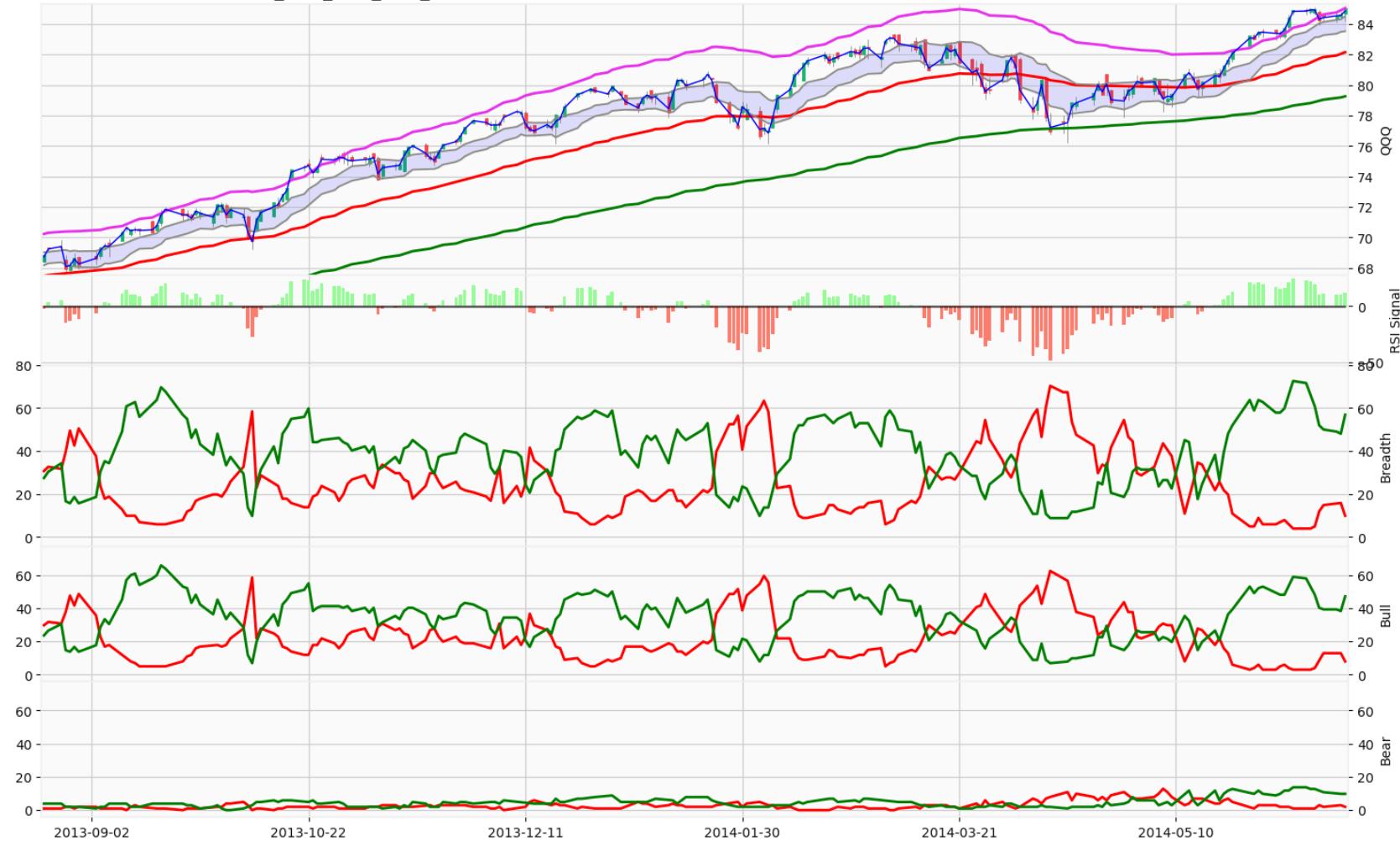
**SPY [2013-12-18] V:287\_326\_088\_000\_000 L:144.88 H:148.50 C:148.48 Wp:147.59 (1.7%) -1**

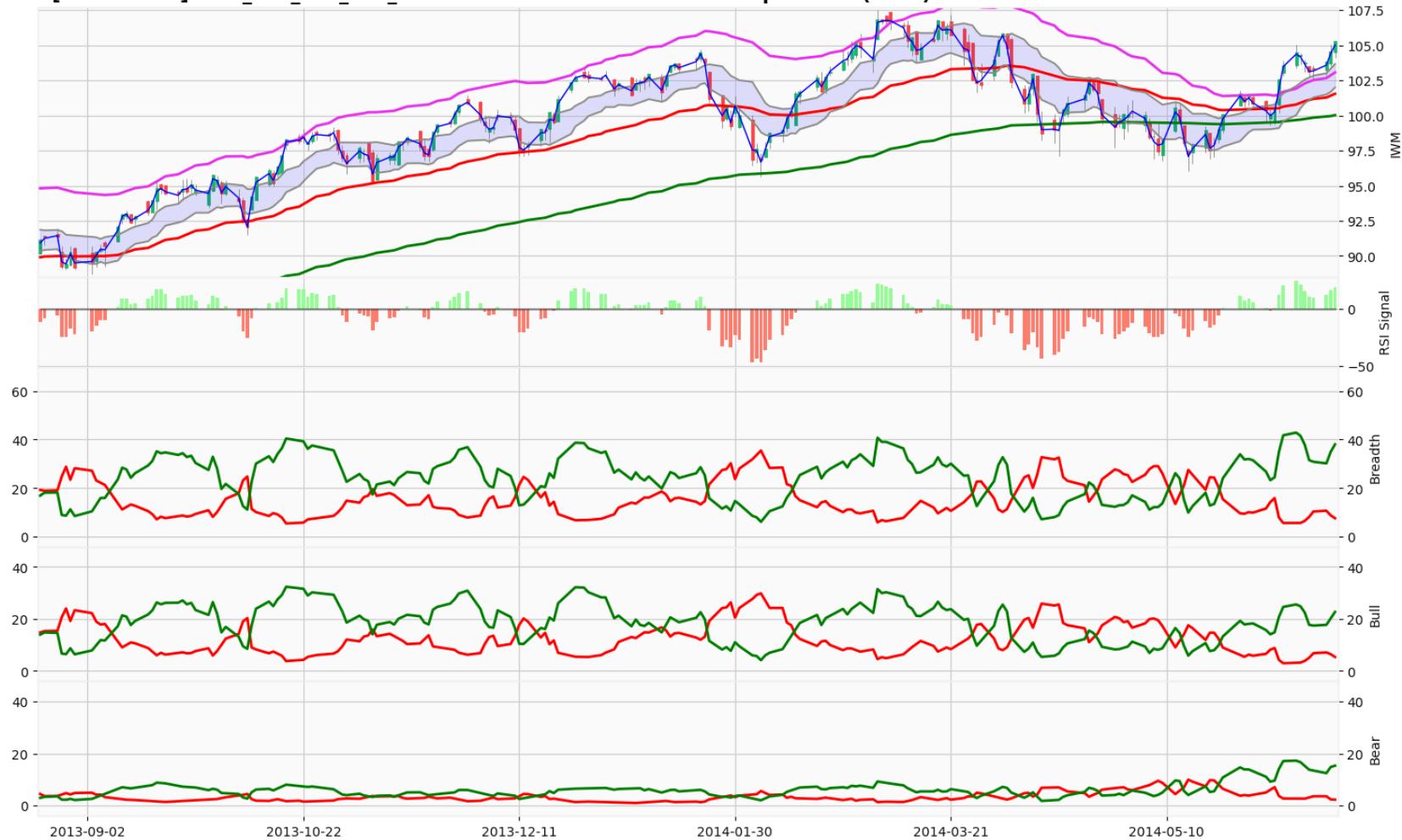
**QQQ [2013-12-18] V:75\_371\_990\_000\_000 L:76.18 H:78.14 C:78.07 Wp:77.61 (1.2%) 0**

**IWM [2013-12-18] V:59\_642\_696\_749\_032 L:98.06 H:100.28 C:100.26 Wp:99.71 (1.4%) -1**

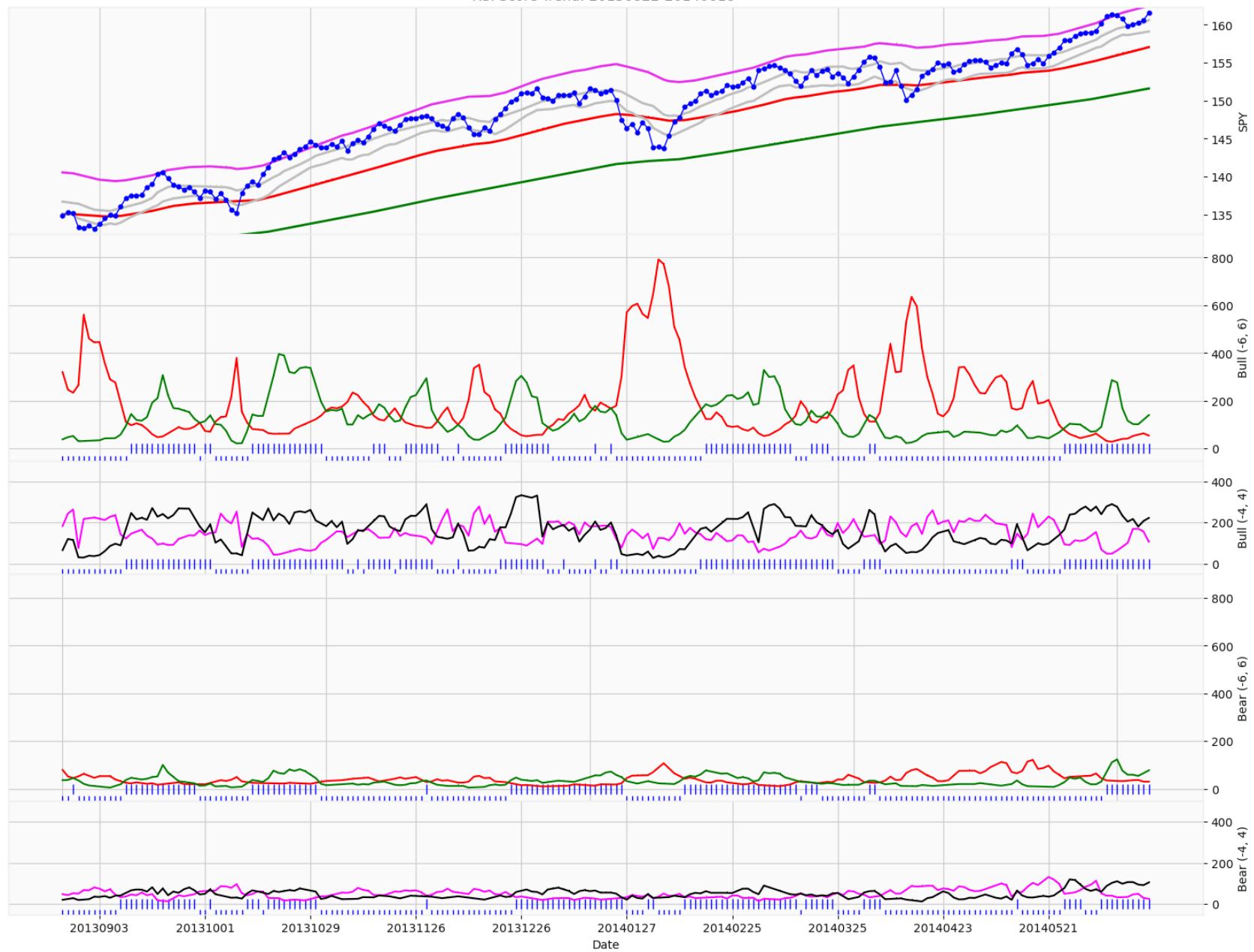


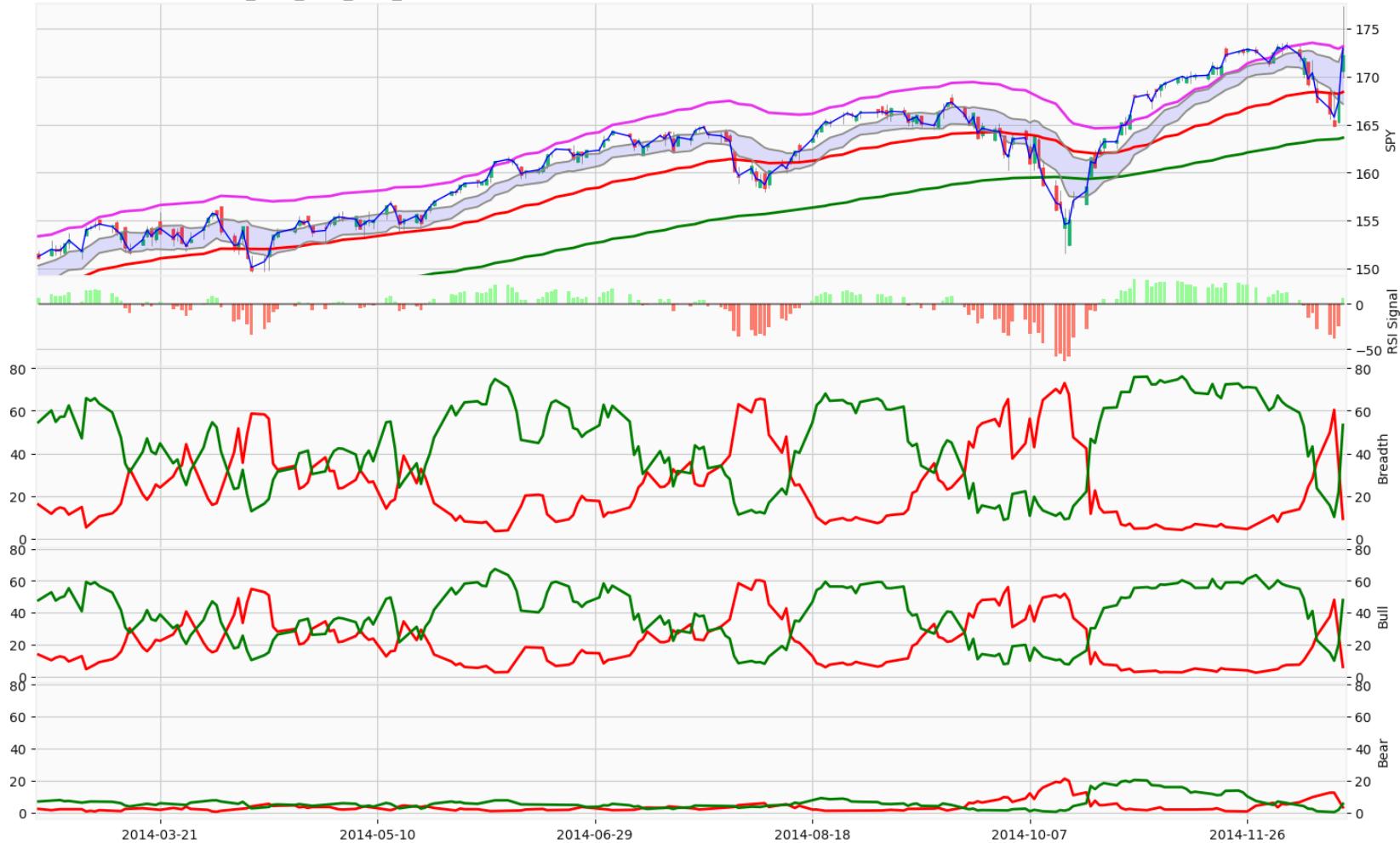
**SPY [2014-06-18] V:127\_482\_205\_000\_000 L:160.40 H:162.04 C:161.93 Wp:161.58 (0.7%) 4**

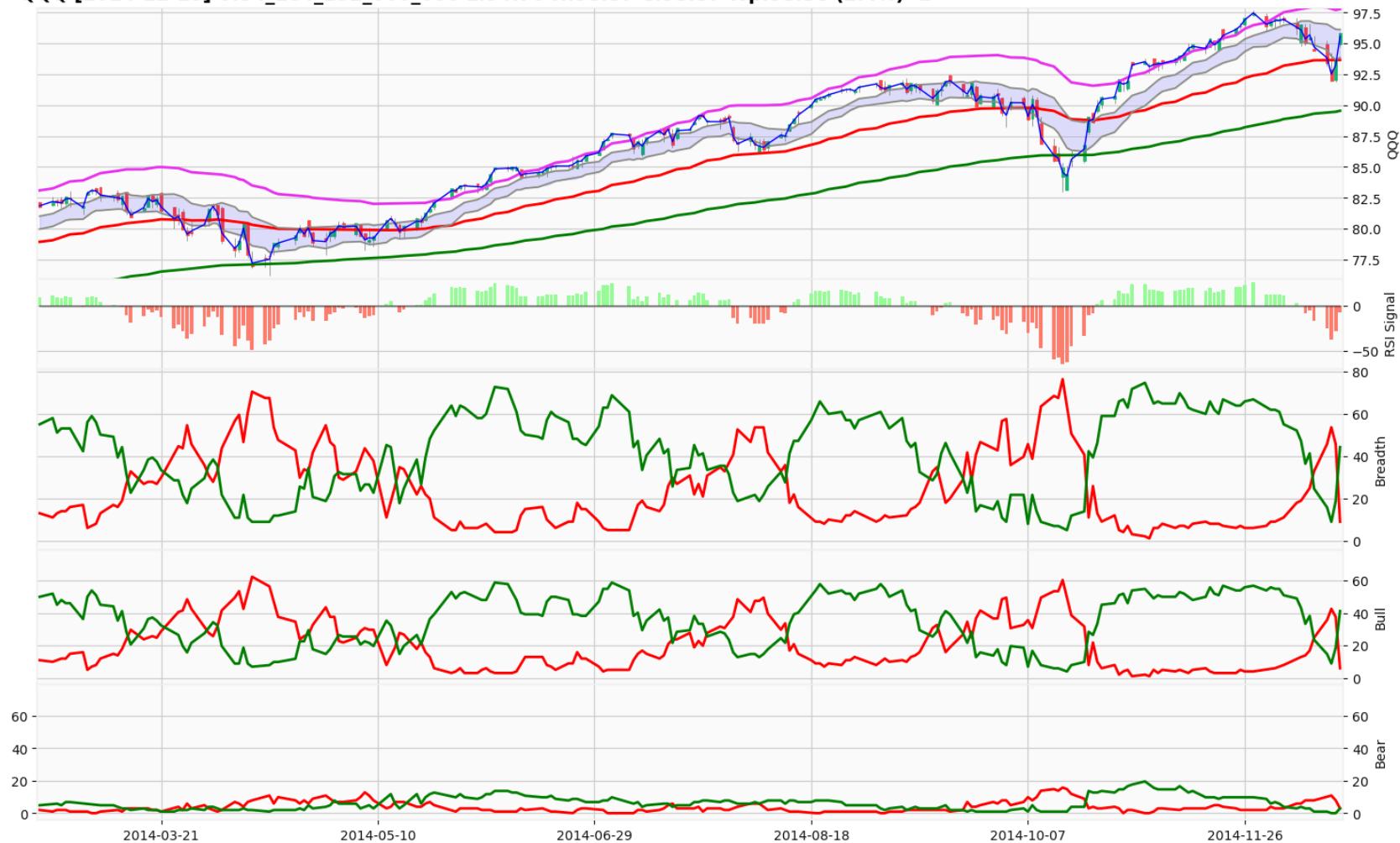
**QQQ [2014-06-18] V:37\_705\_188\_000\_000 L:84.16 H:85.19 C:85.07 Wp:84.87 (0.6%) 4**

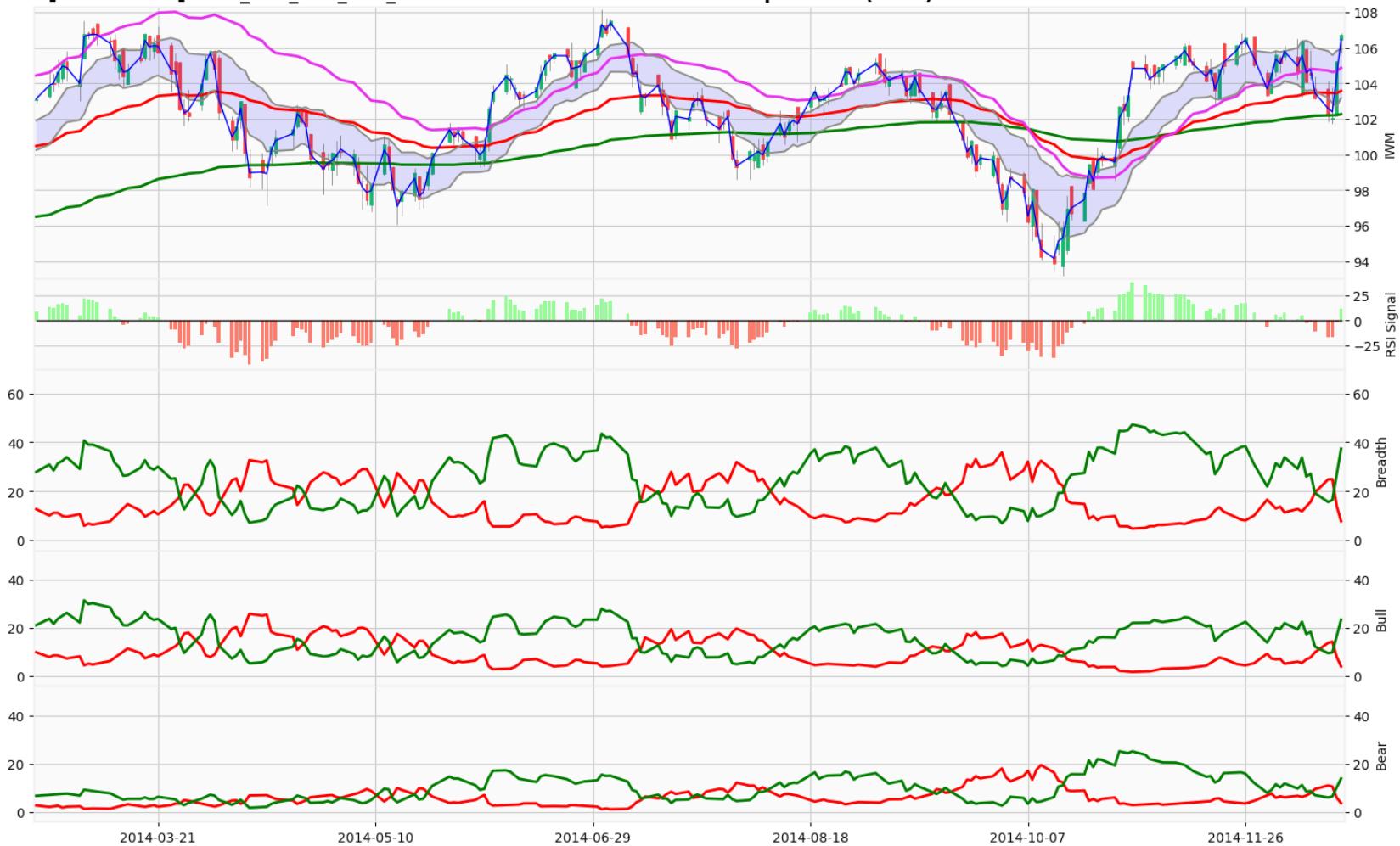
**IWM [2014-06-18] V:41\_879\_519\_273\_275 L:104.13 H:105.33 C:105.30 Wp:105.01 (0.7%) 5**

RSI Score Trend: 20130822-20140618

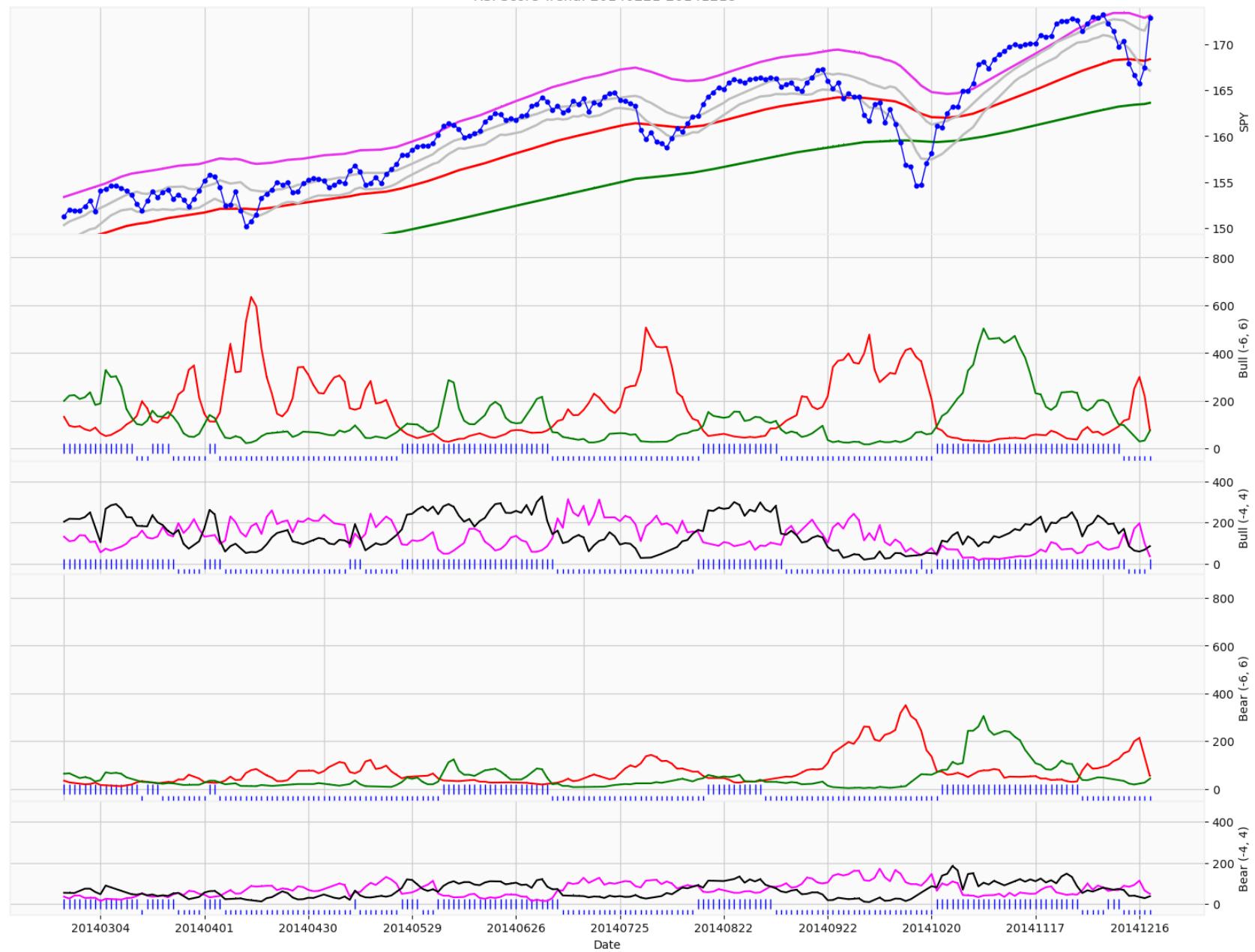


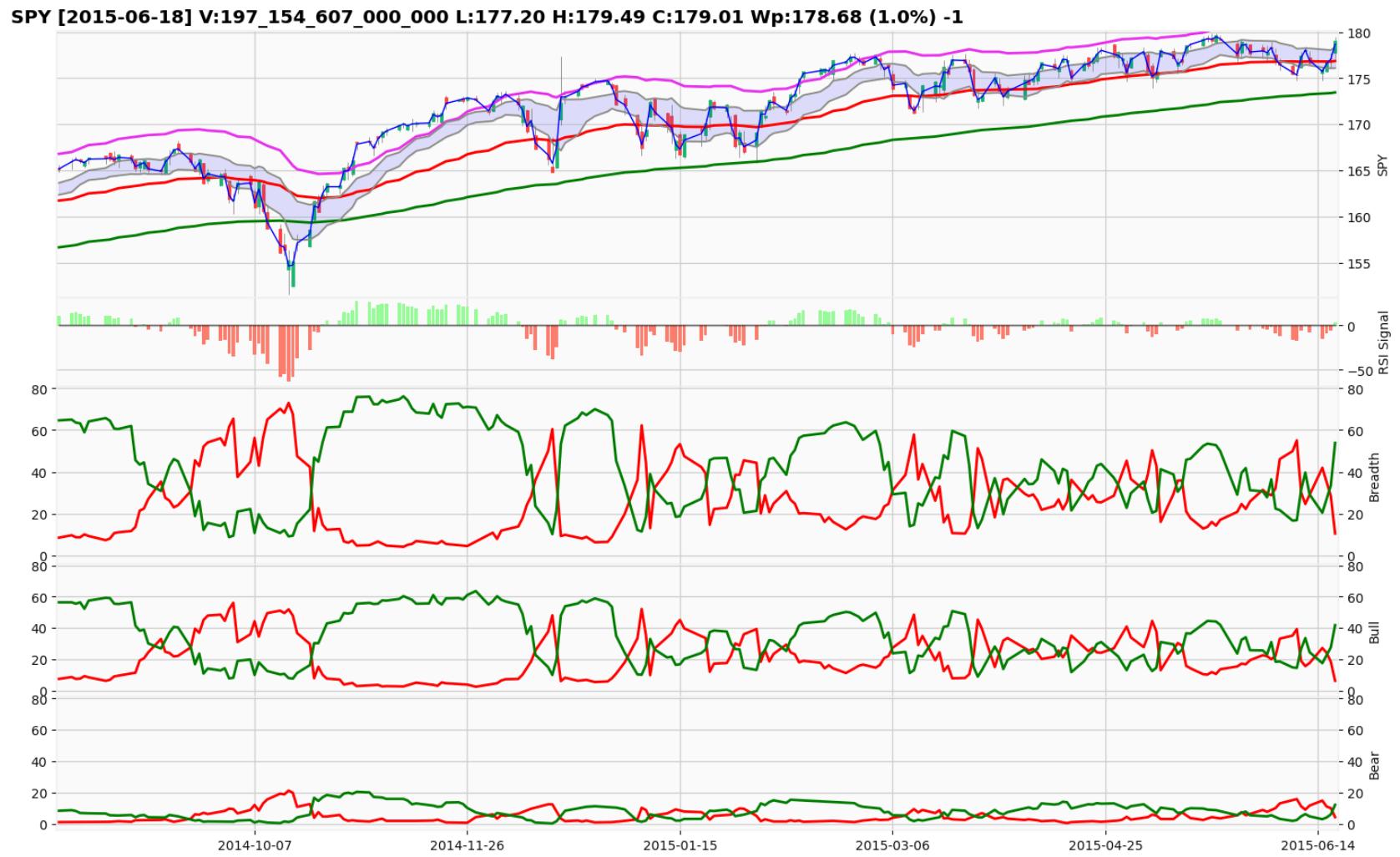
**SPY [2014-12-18] V:308\_911\_541\_000\_000 L:169.87 H:177.38 C:172.28 Wp:172.95 (2.5%) 3**

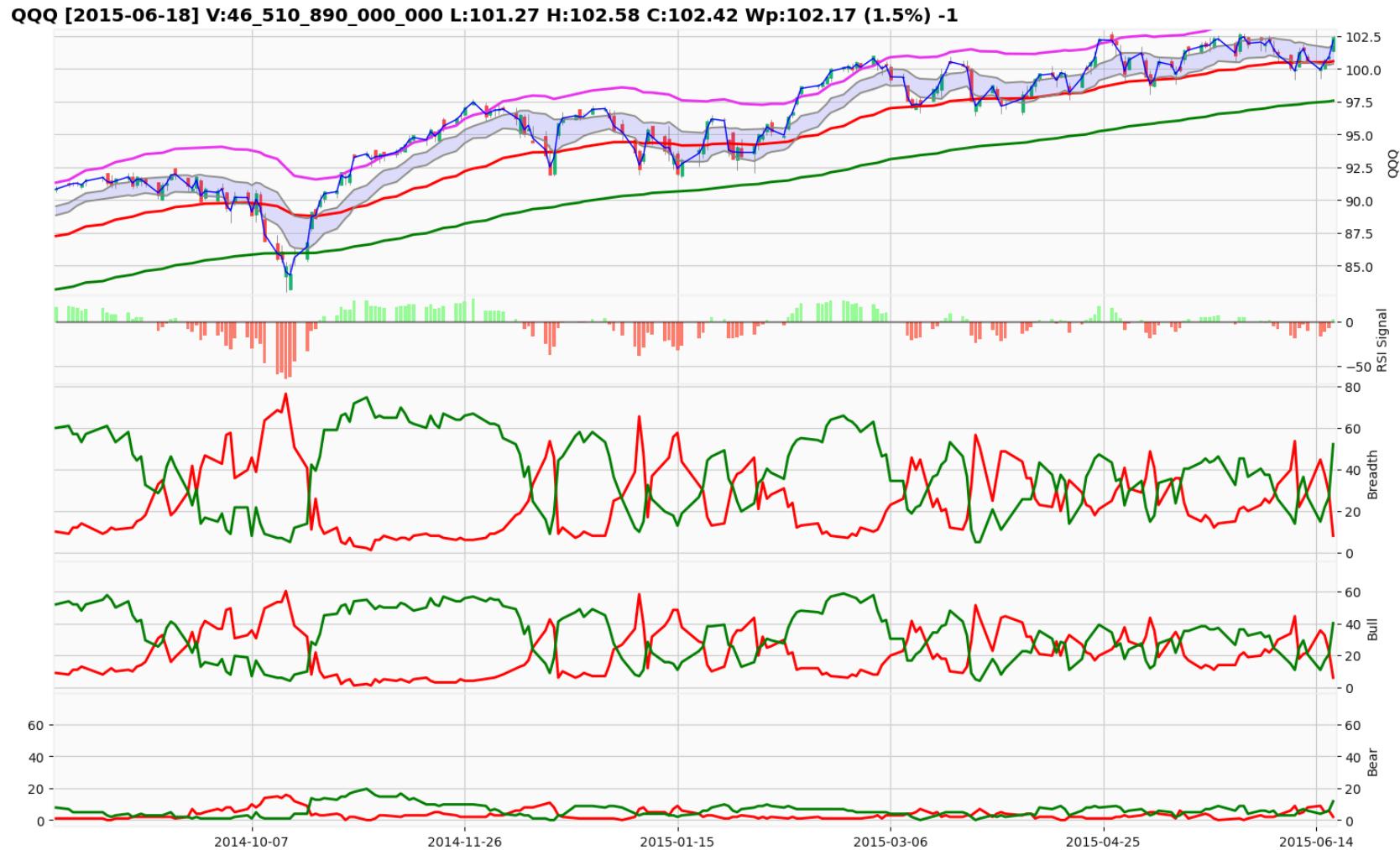
**QQQ [2014-12-18] V:54\_184\_292\_000\_000 L:94.70 H:95.87 C:95.87 Wp:95.58 (2.4%) -2**

**IWM [2014-12-18] V:60\_355\_006\_635\_849 L:105.70 H:106.82 C:106.71 Wp:106.48 (1.4%) 3**

RSI Score Trend: 20140221-20141218

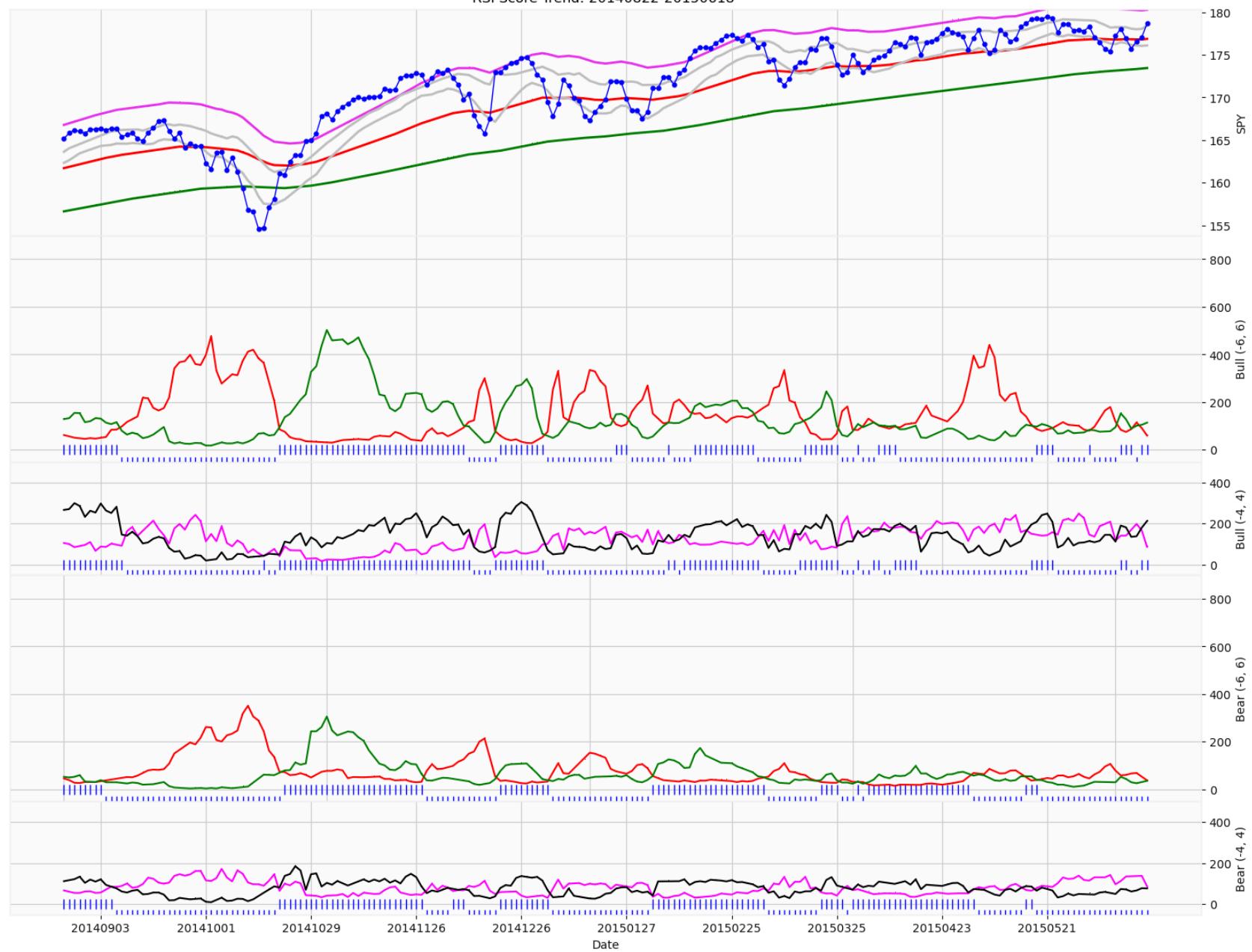


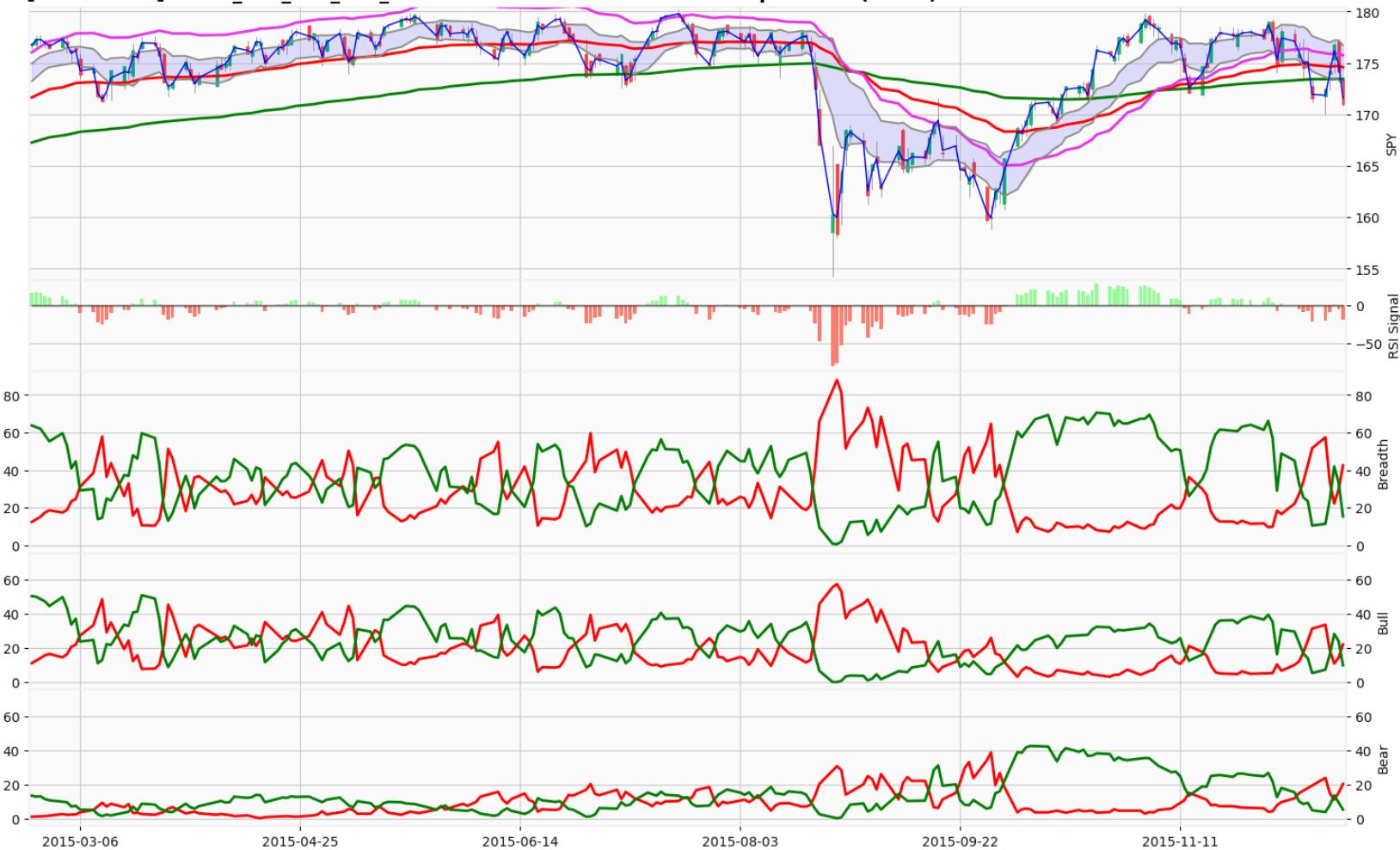


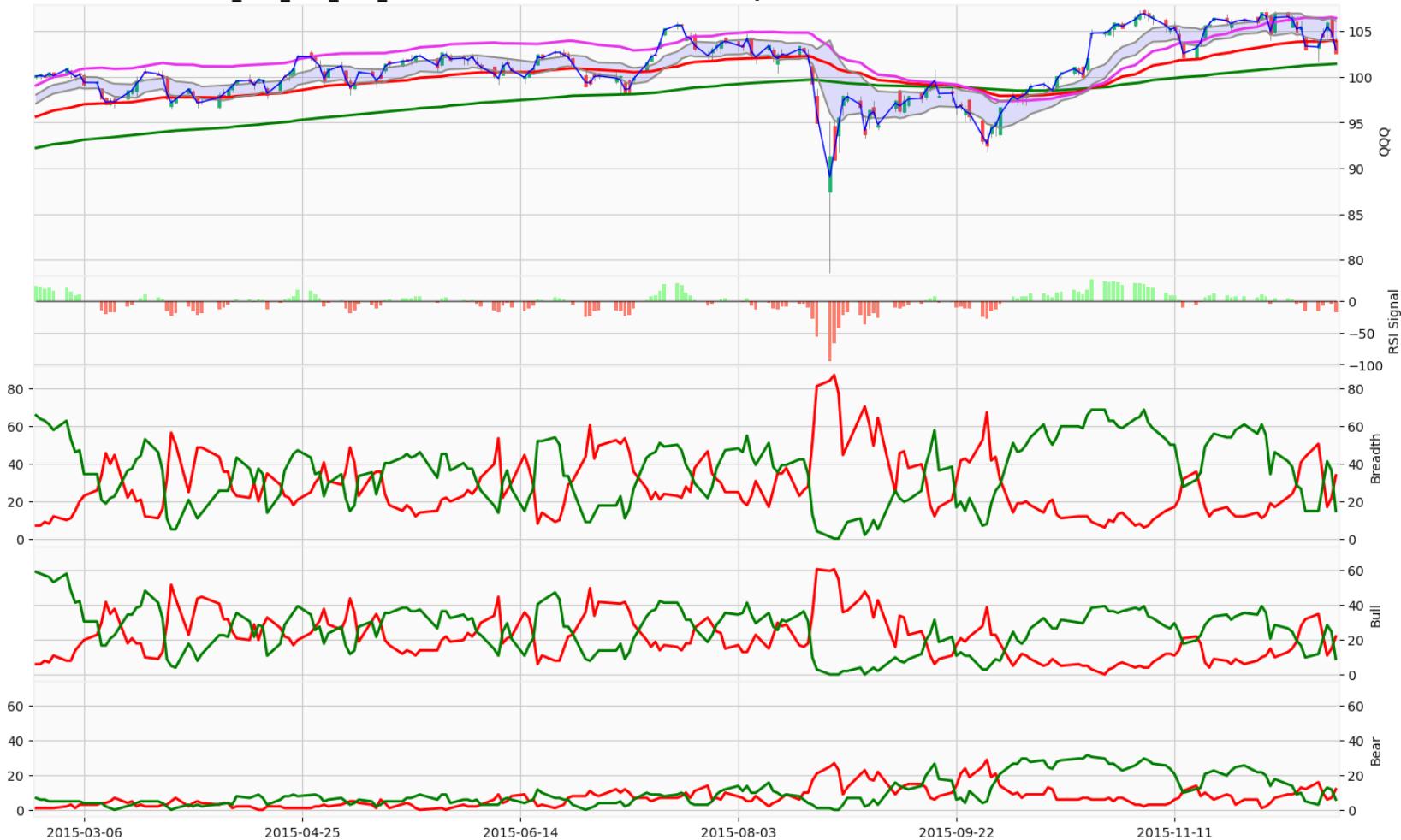


**IWM [2015-06-18] V:43\_758\_439\_531\_695 L:114.83 H:116.17 C:115.89 Wp:115.69 (1.3%) 4**

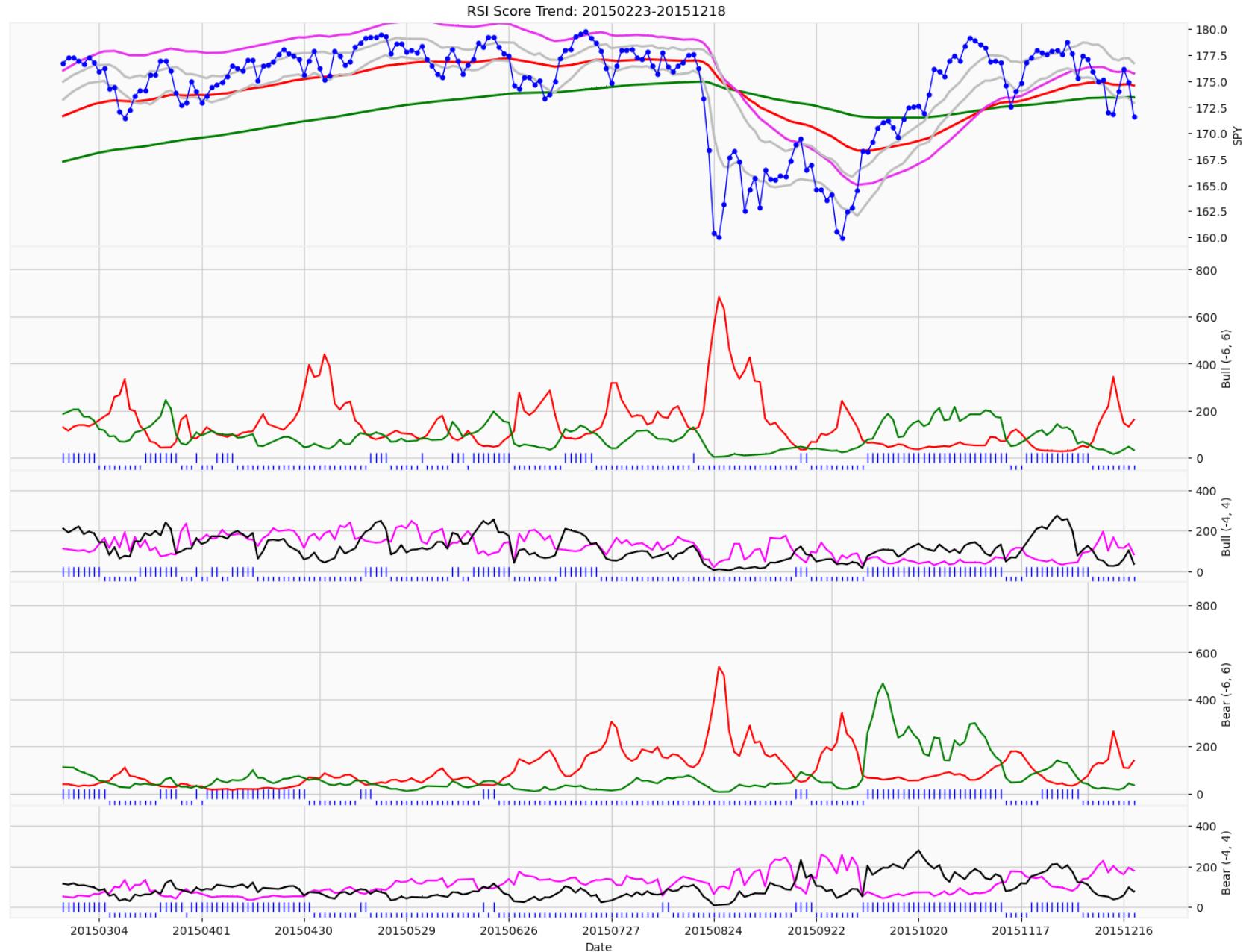
RSI Score Trend: 20140822-20150618

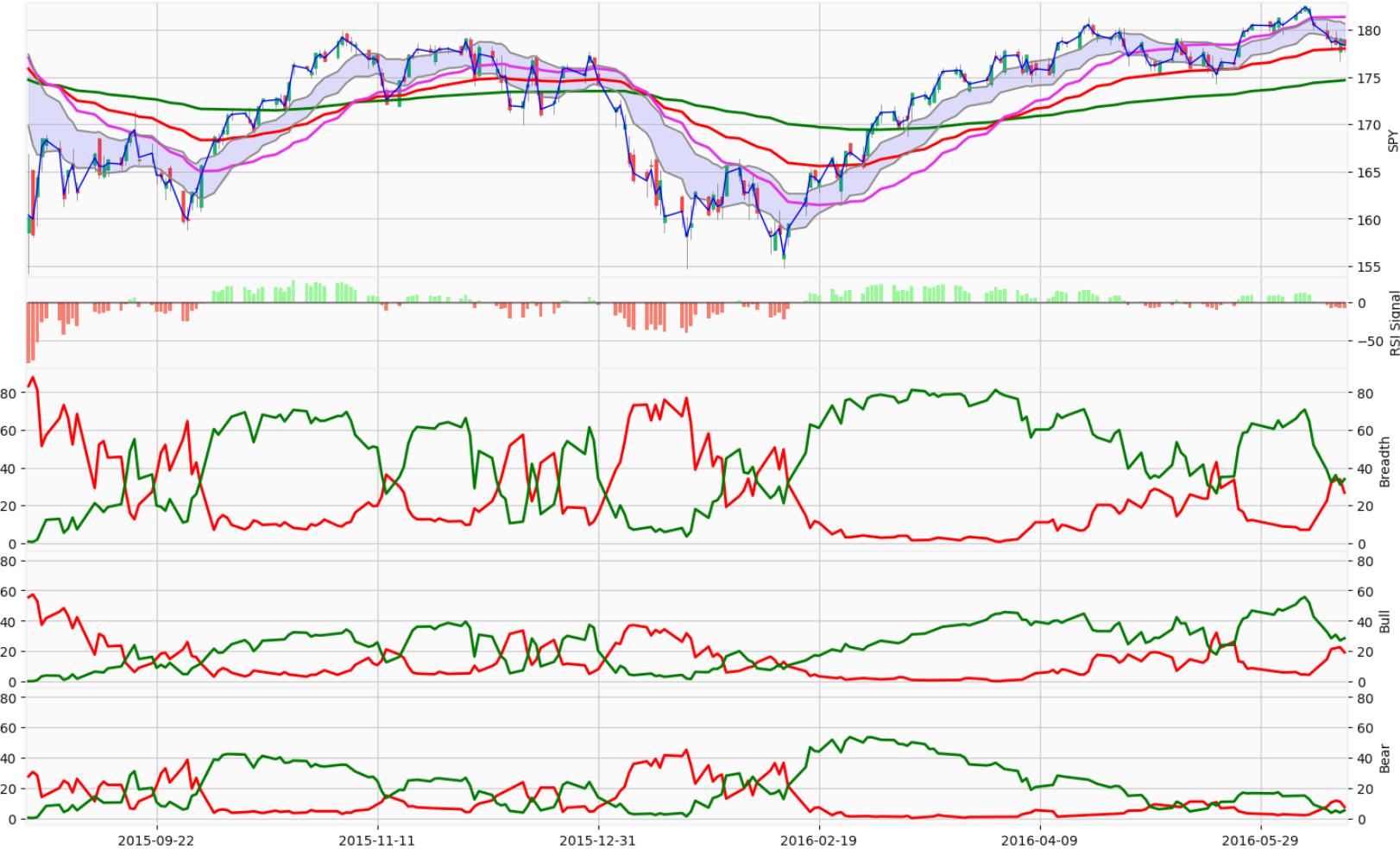


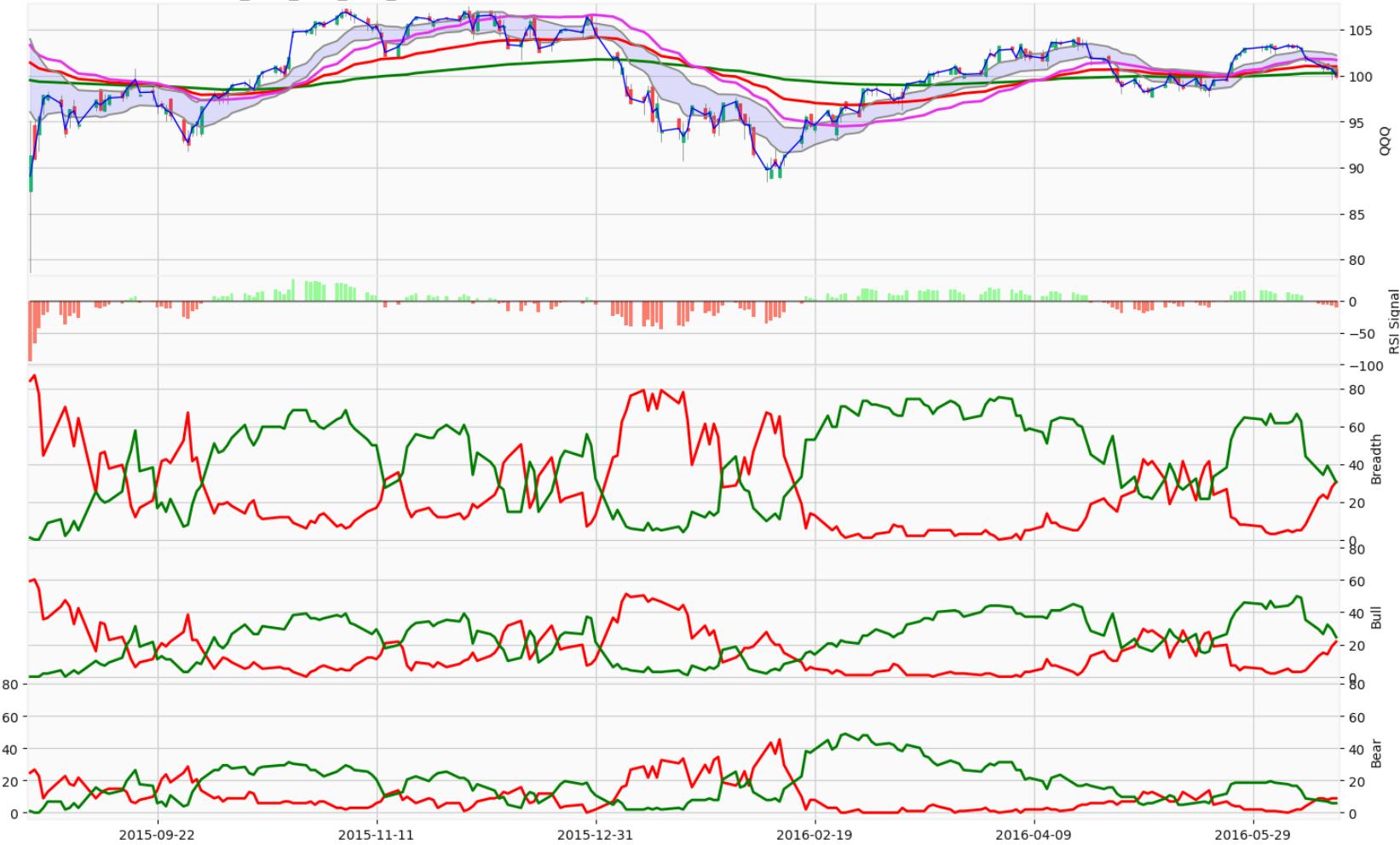
**SPY [2015-12-18] V:205\_322\_141\_000\_000 L:170.83 H:173.47 C:170.99 Wp:171.57 (-1.8%) -5**

**QQQ [2015-12-18] V:43\_969\_381\_000\_000 L:102.50 H:104.31 C:102.50 Wp:102.95 (-1.8%) -5**

**IWM [2015-12-18] V:54\_666\_176\_162\_157 L:101.70 H:102.97 C:101.73 Wp:102.03 (-1.5%) -5**

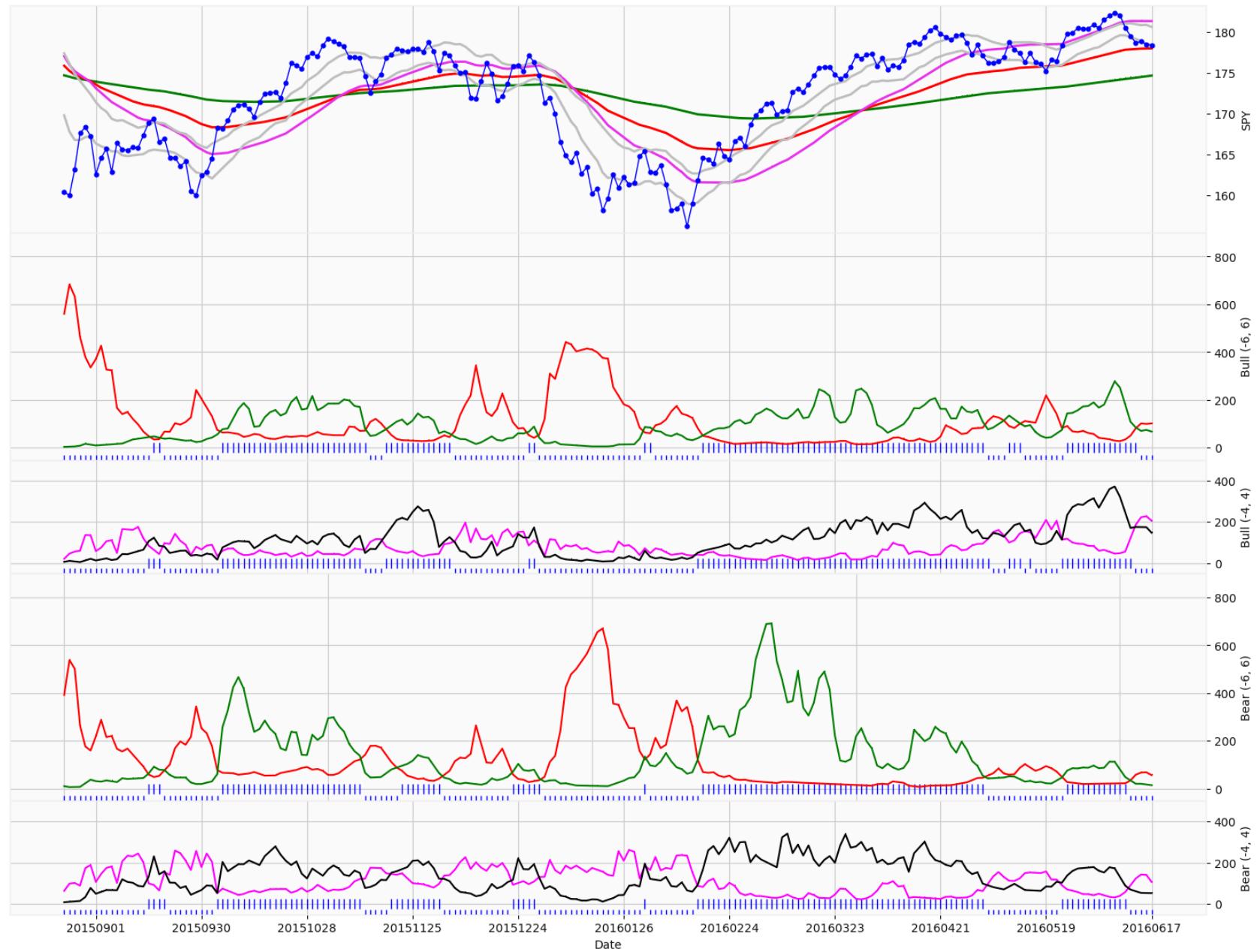


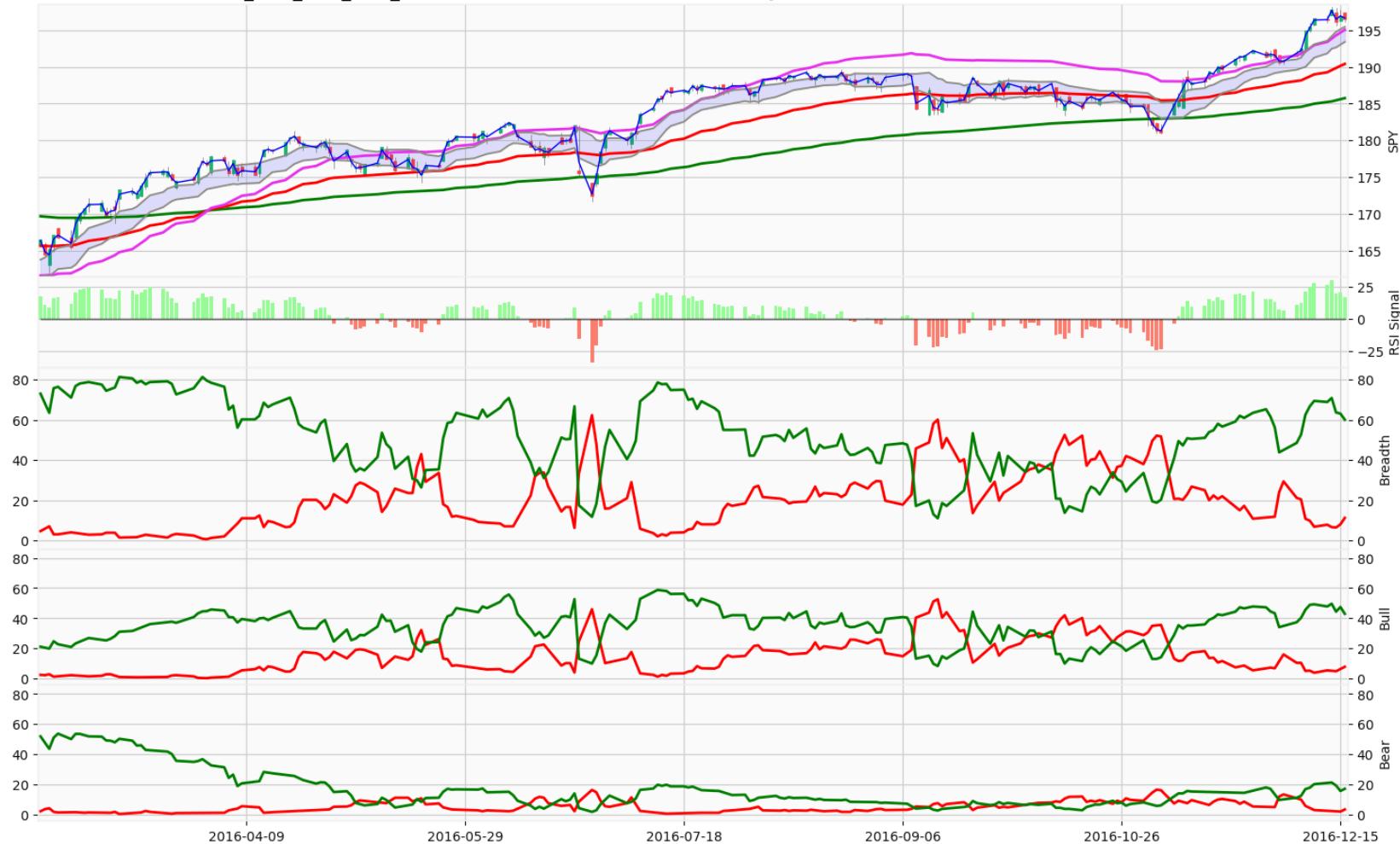
**SPY [2016-06-17] V:135\_006\_066\_000\_000 L:177.71 H:178.96 C:178.38 Wp:178.36 (-0.4%) -4**

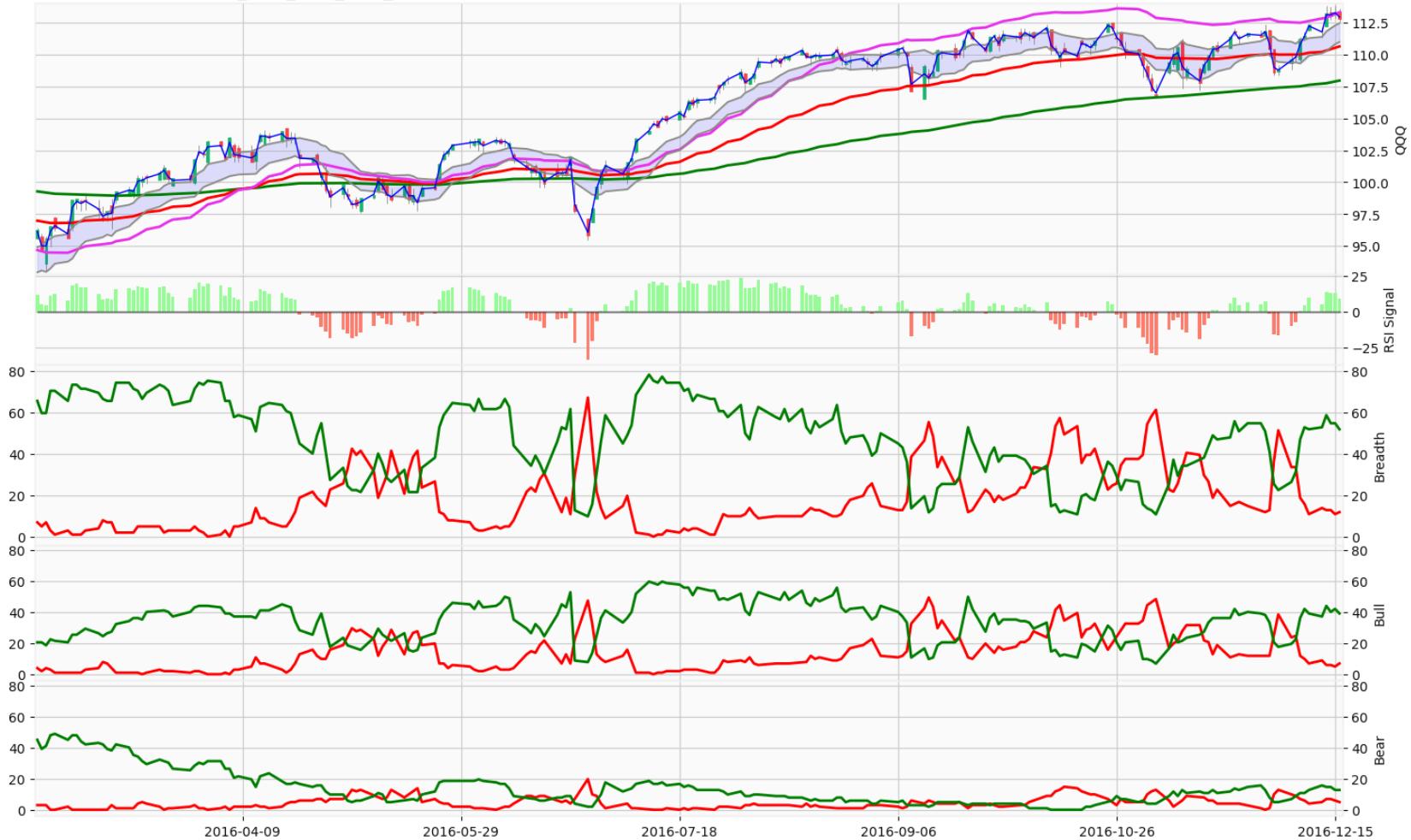
**QQQ [2016-06-17] V:28\_129\_076\_000\_000 L:99.62 H:100.86 C:99.85 Wp:100.05 (-1.2%) -4**

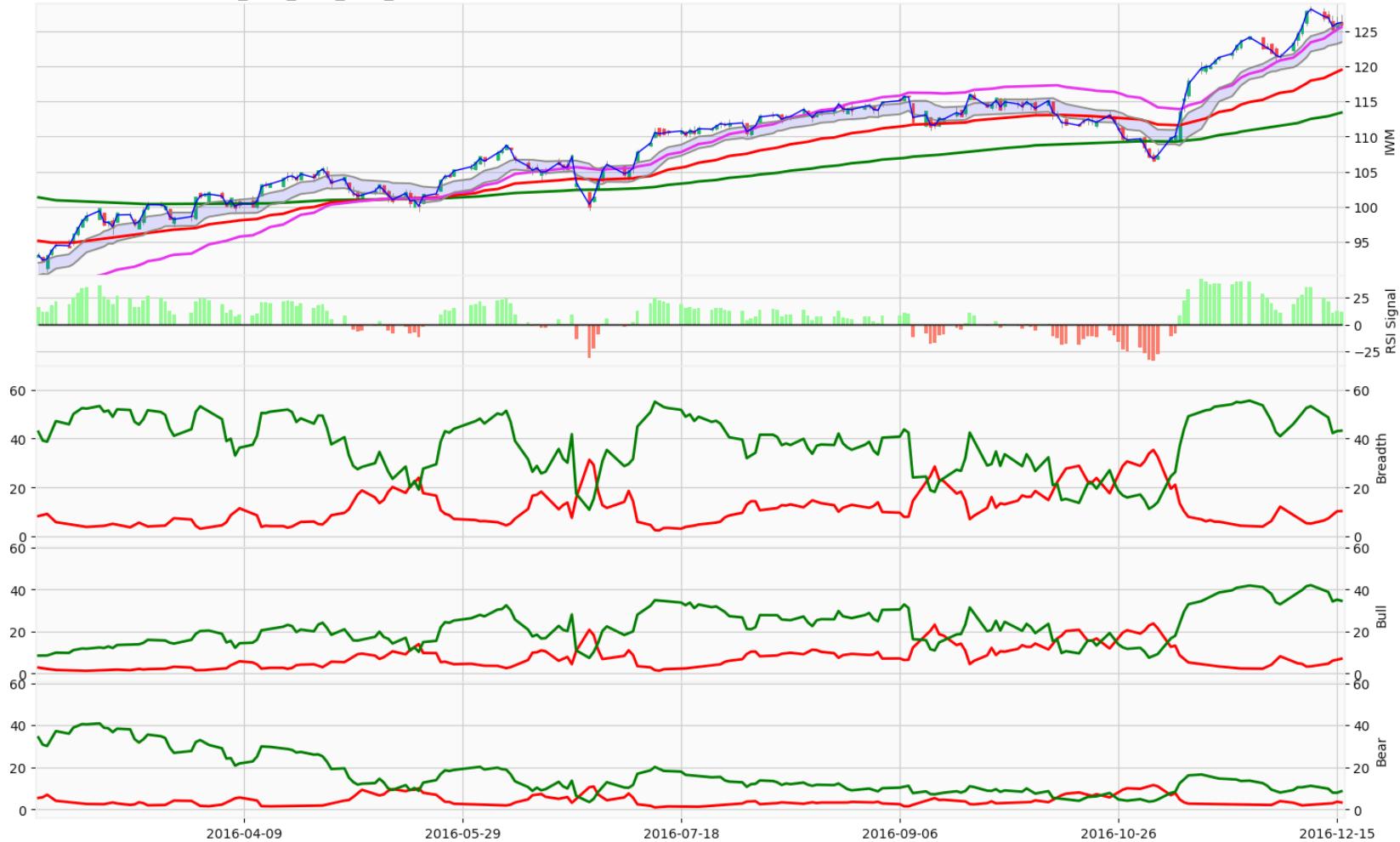
**IWM [2016-06-17] V:32\_743\_604\_620\_851 L:104.50 H:105.62 C:104.89 Wp:104.97 (-0.4%) 0**

RSI Score Trend: 20150824-20160618

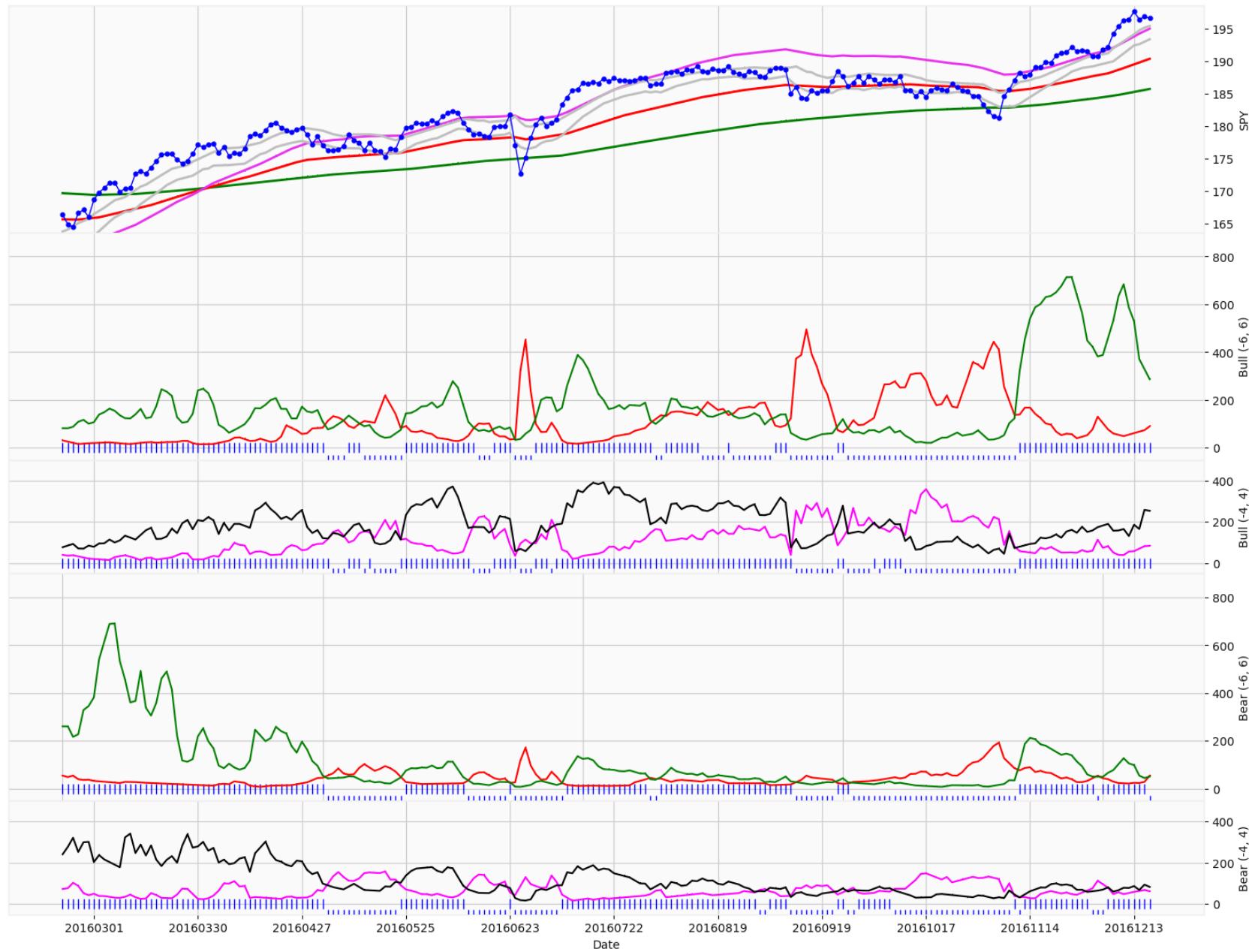


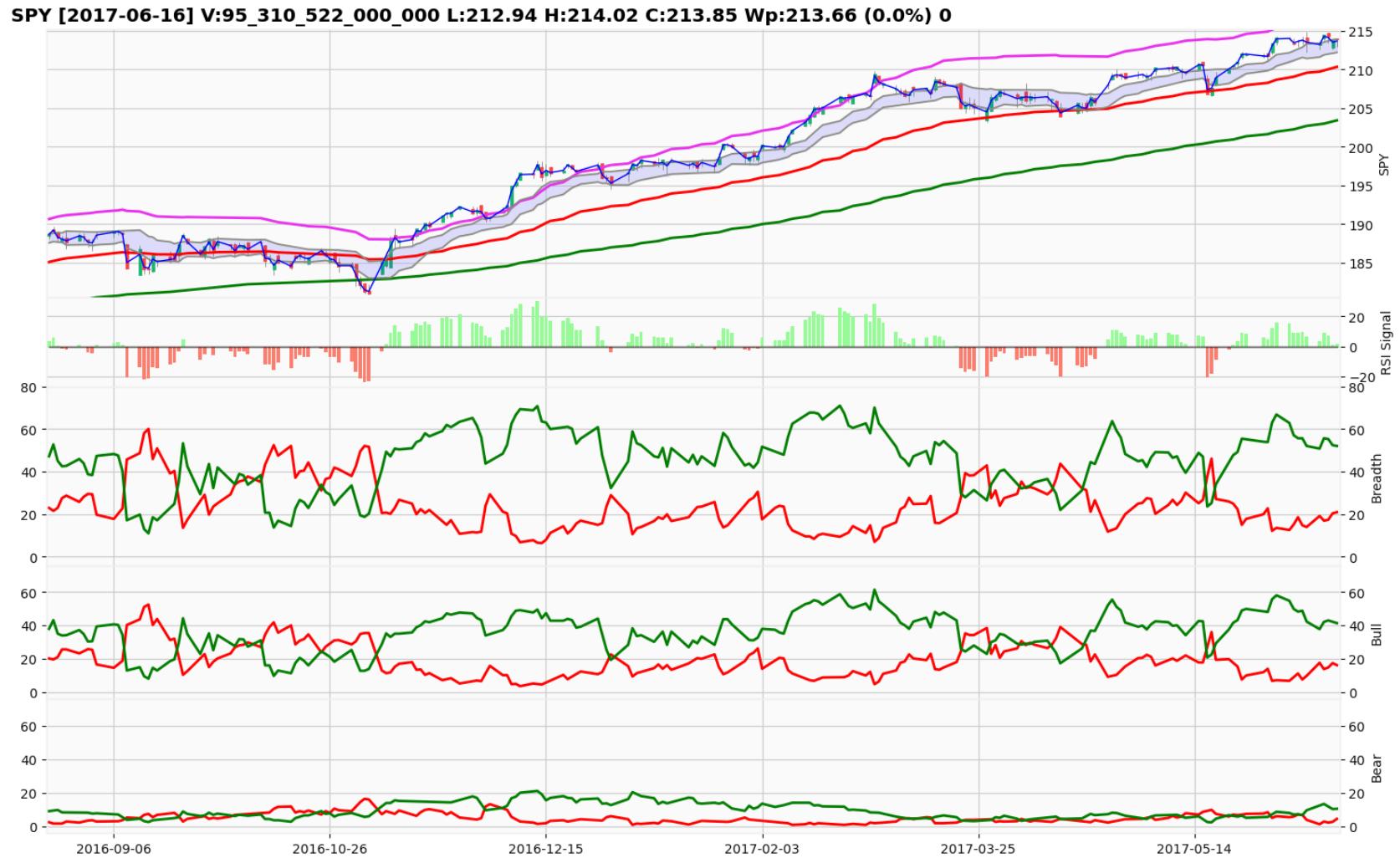
**SPY [2016-12-16] V:176\_527\_269\_000\_000 L:196.19 H:197.42 C:196.50 Wp:196.66 (-0.2%) 6**

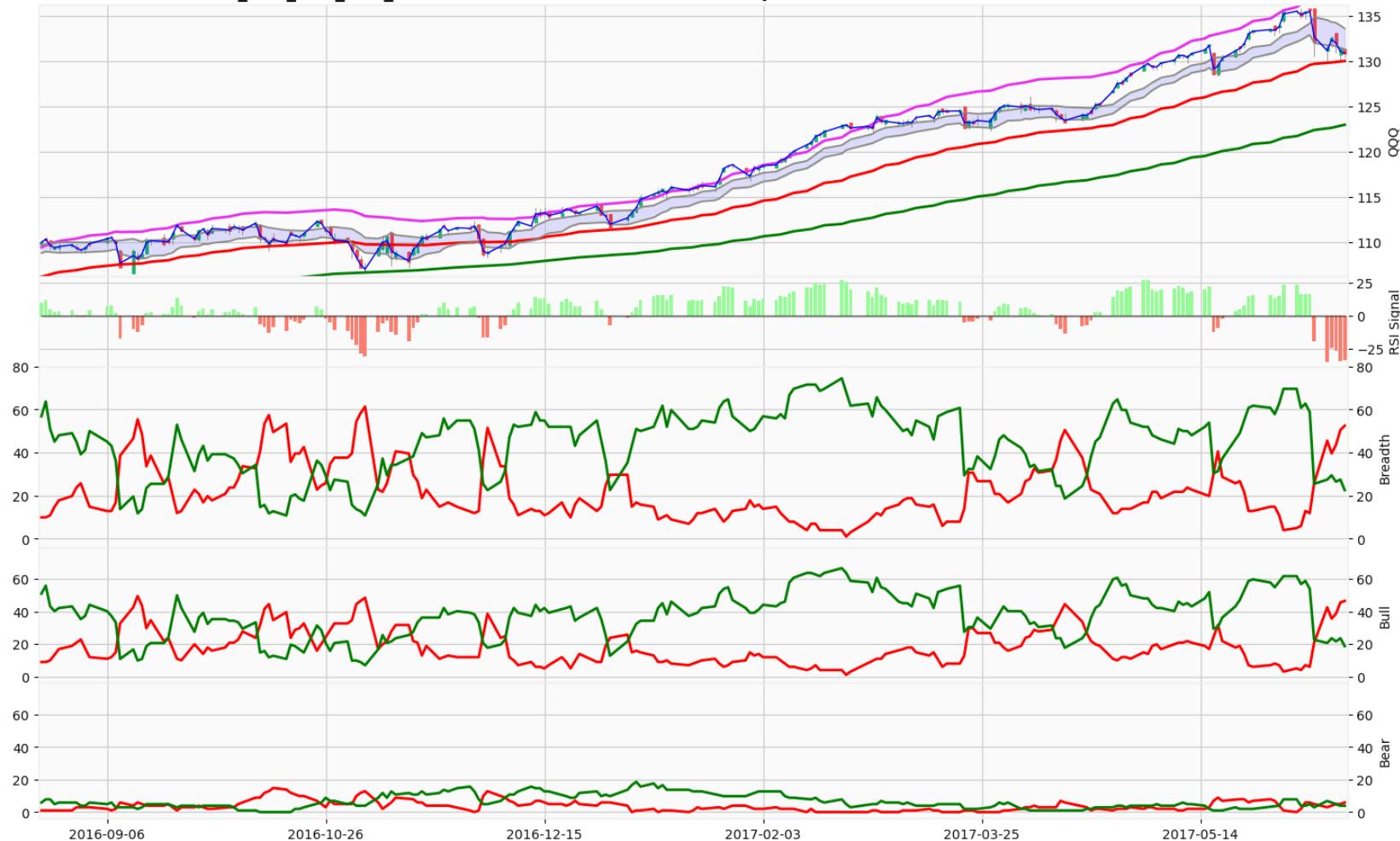
**QQQ [2016-12-16] V:22\_890\_709\_000\_000 L:112.56 H:113.63 C:112.78 Wp:112.94 (-0.4%) 4**

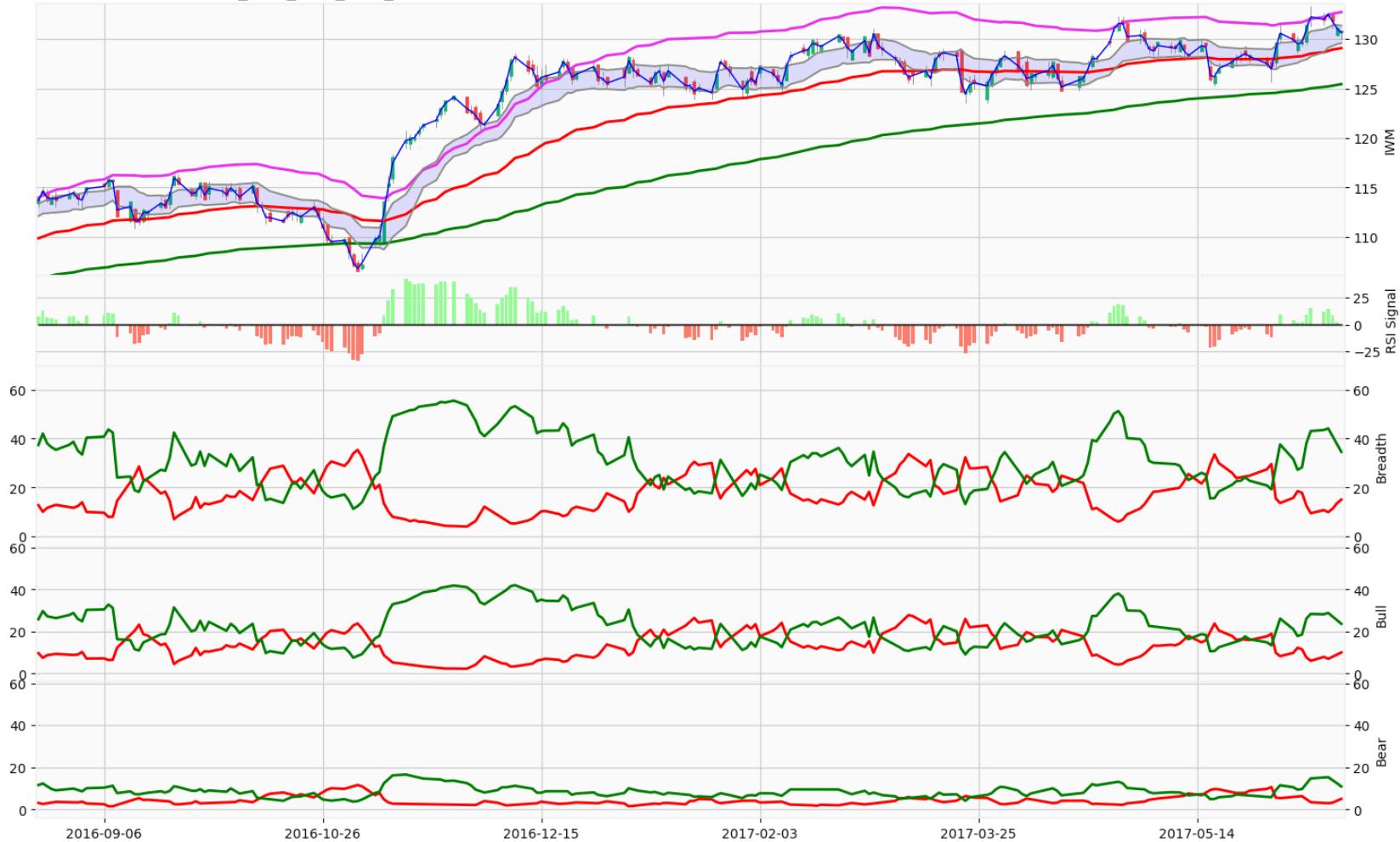
**IWM [2016-12-16] V:40\_565\_766\_930\_007 L:125.67 H:127.45 C:125.94 Wp:126.25 (-0.2%) 4**

RSI Score Trend: 20160222-20161218

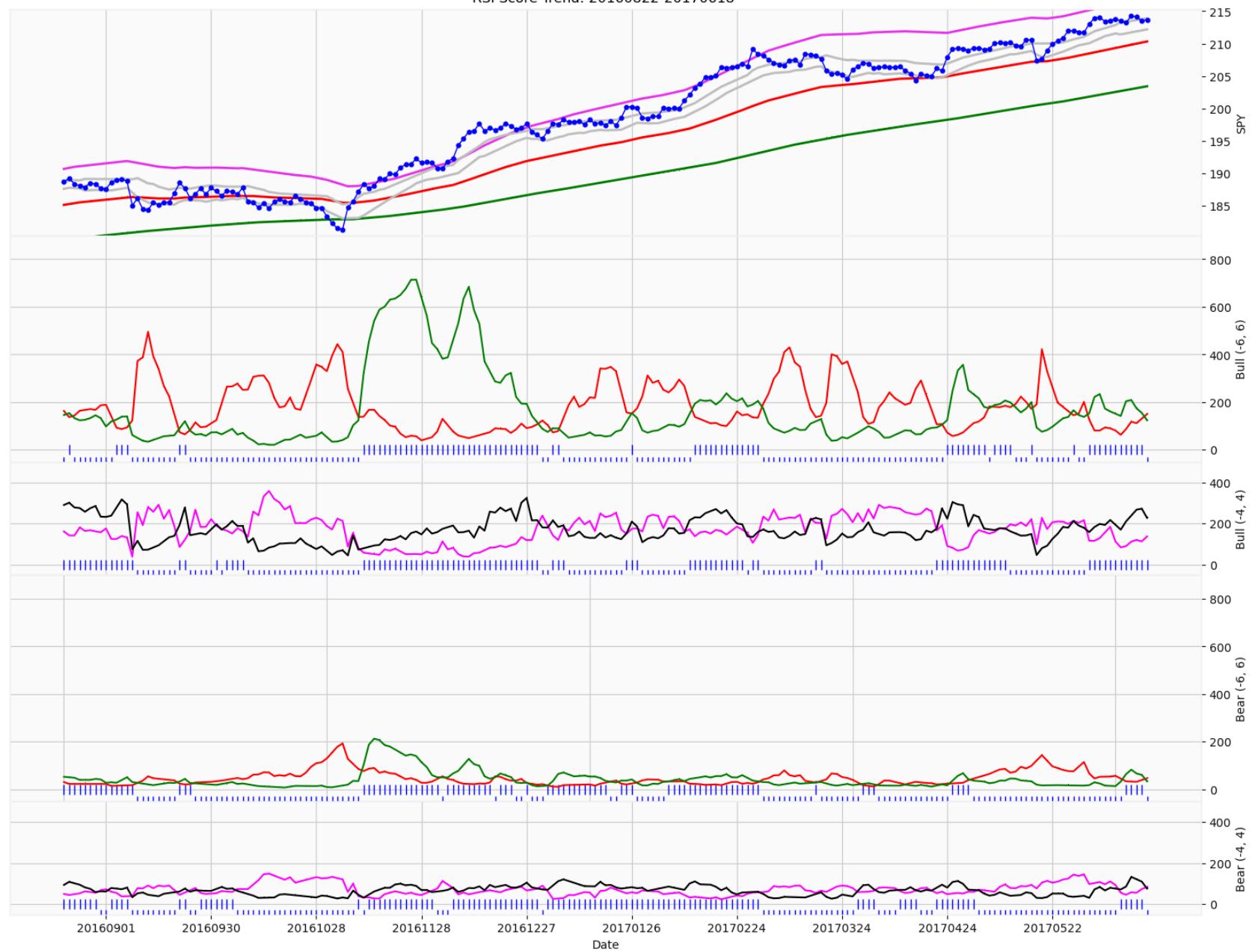


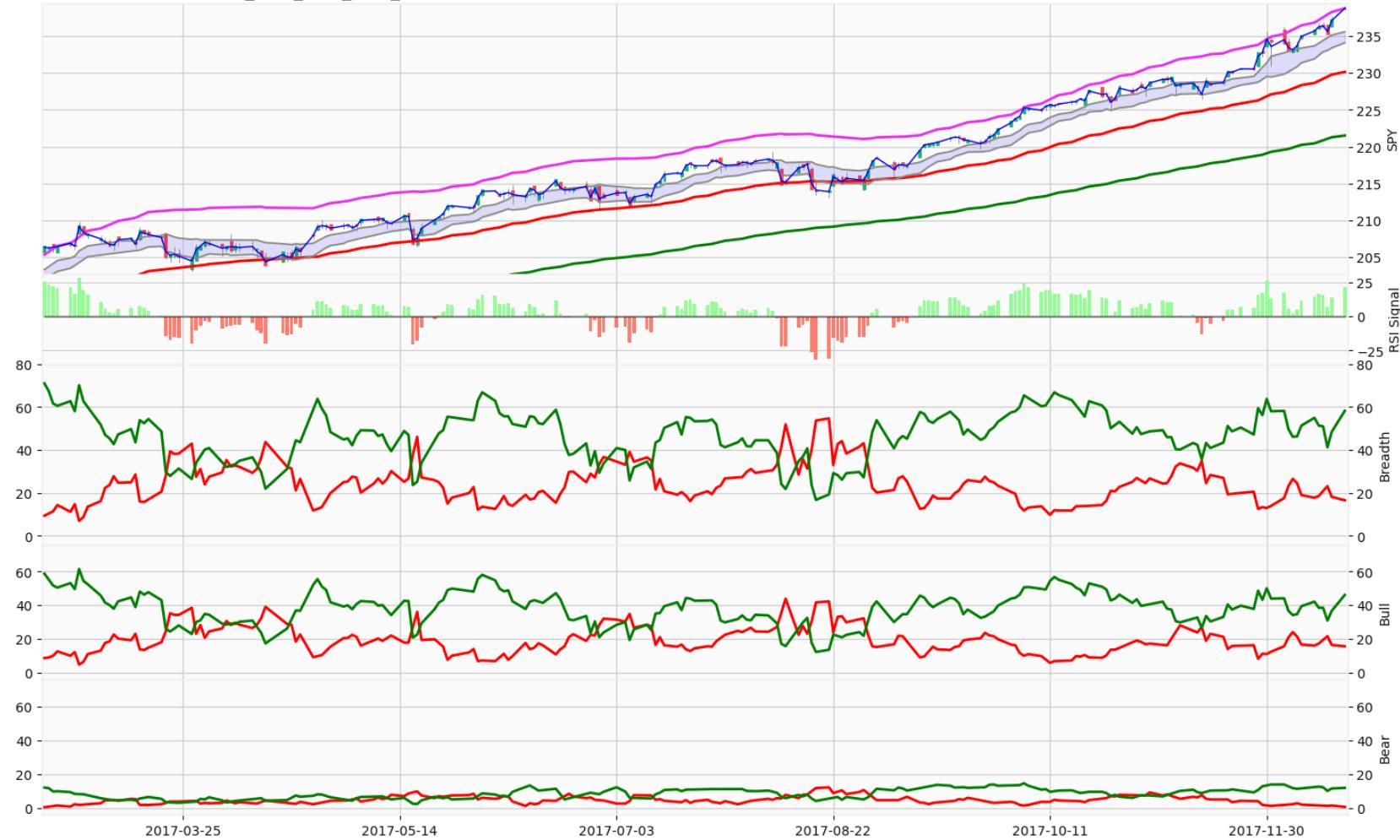


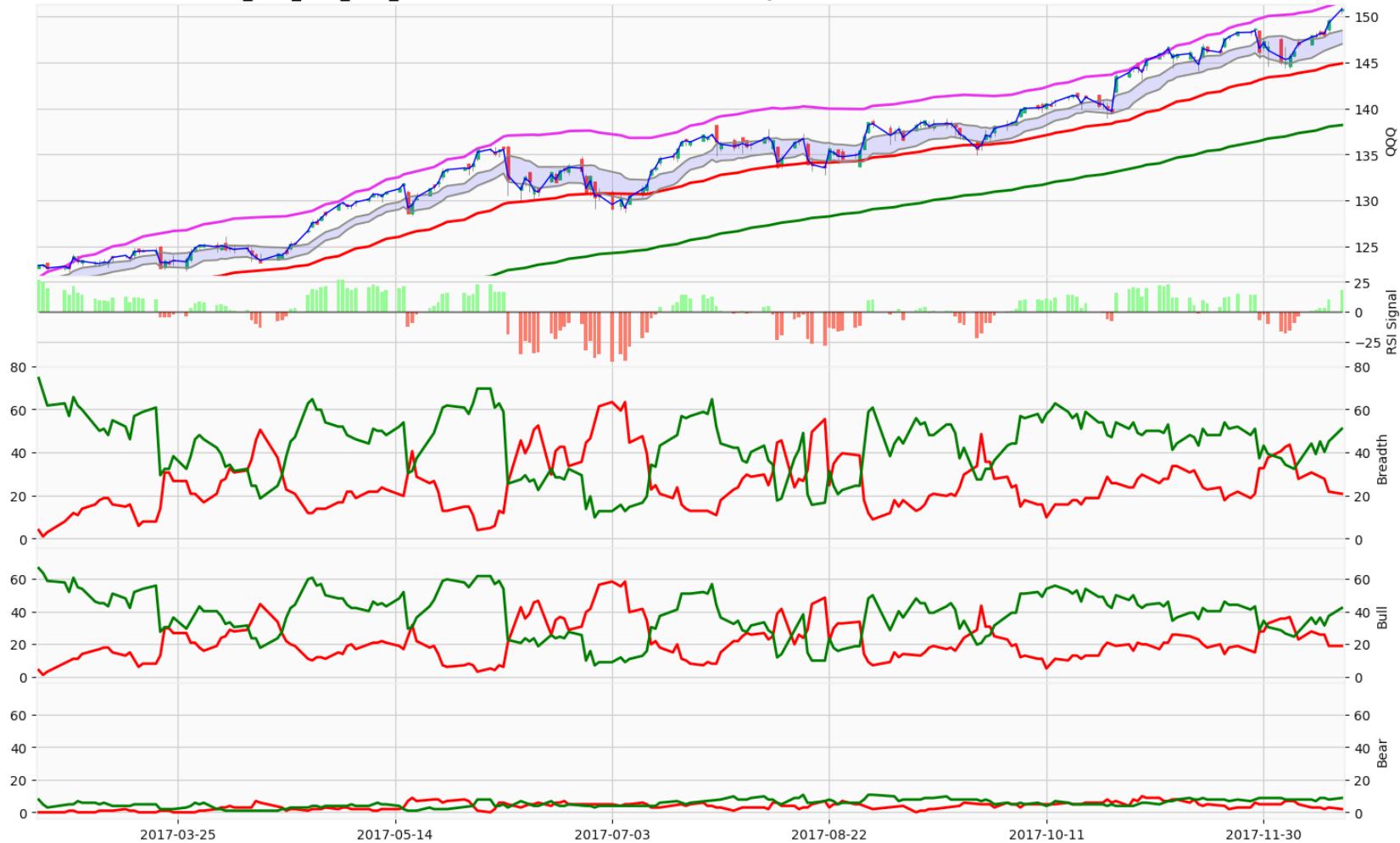
**QQQ [2017-06-16] V:50\_752\_494\_000\_000 L:130.40 H:131.45 C:130.88 Wp:130.90 (-0.4%) -6**

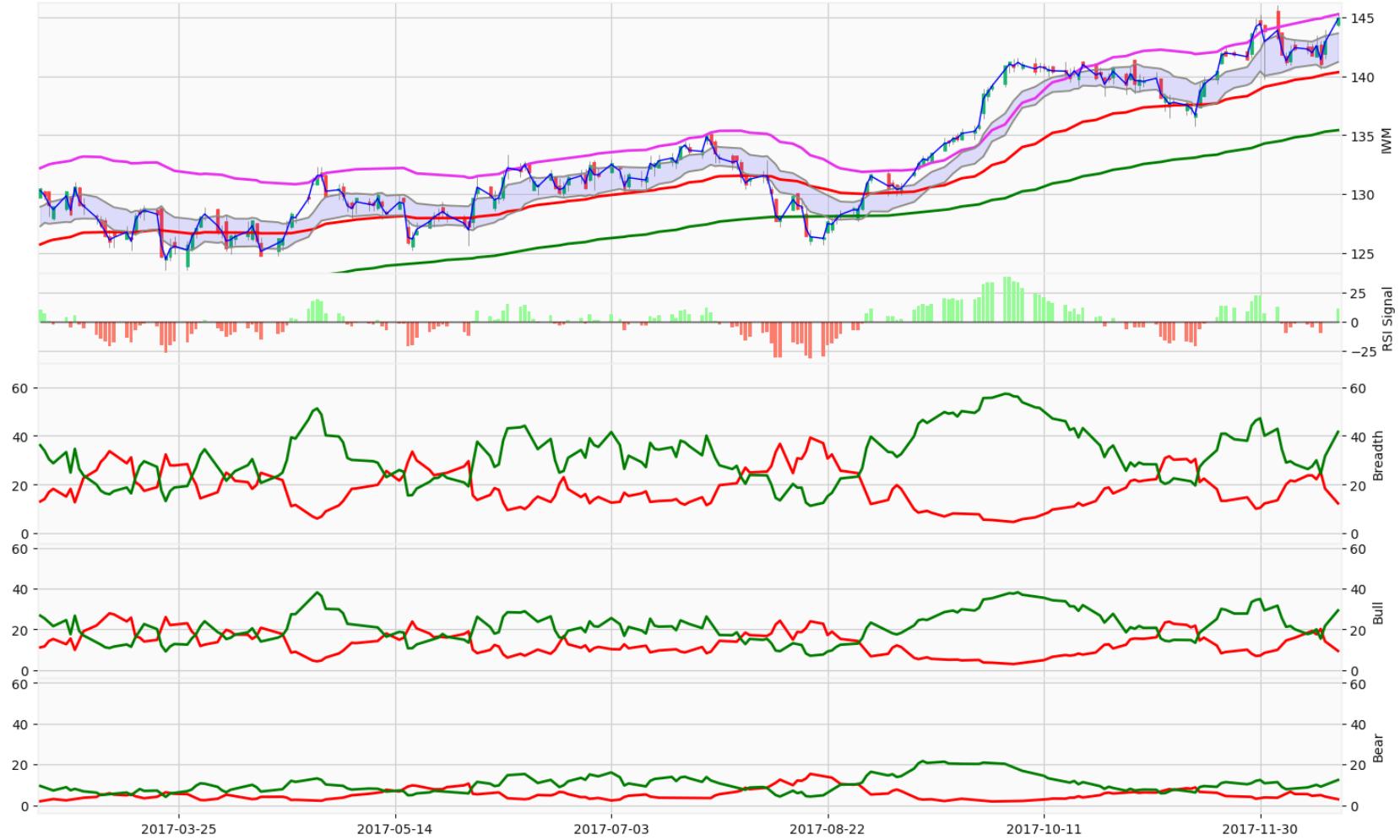
**IWM [2017-06-16] V:36\_809\_431\_049\_779 L:129.98 H:130.86 C:130.85 Wp:130.63 (-0.2%) 0**

RSI Score Trend: 20160822-20170618

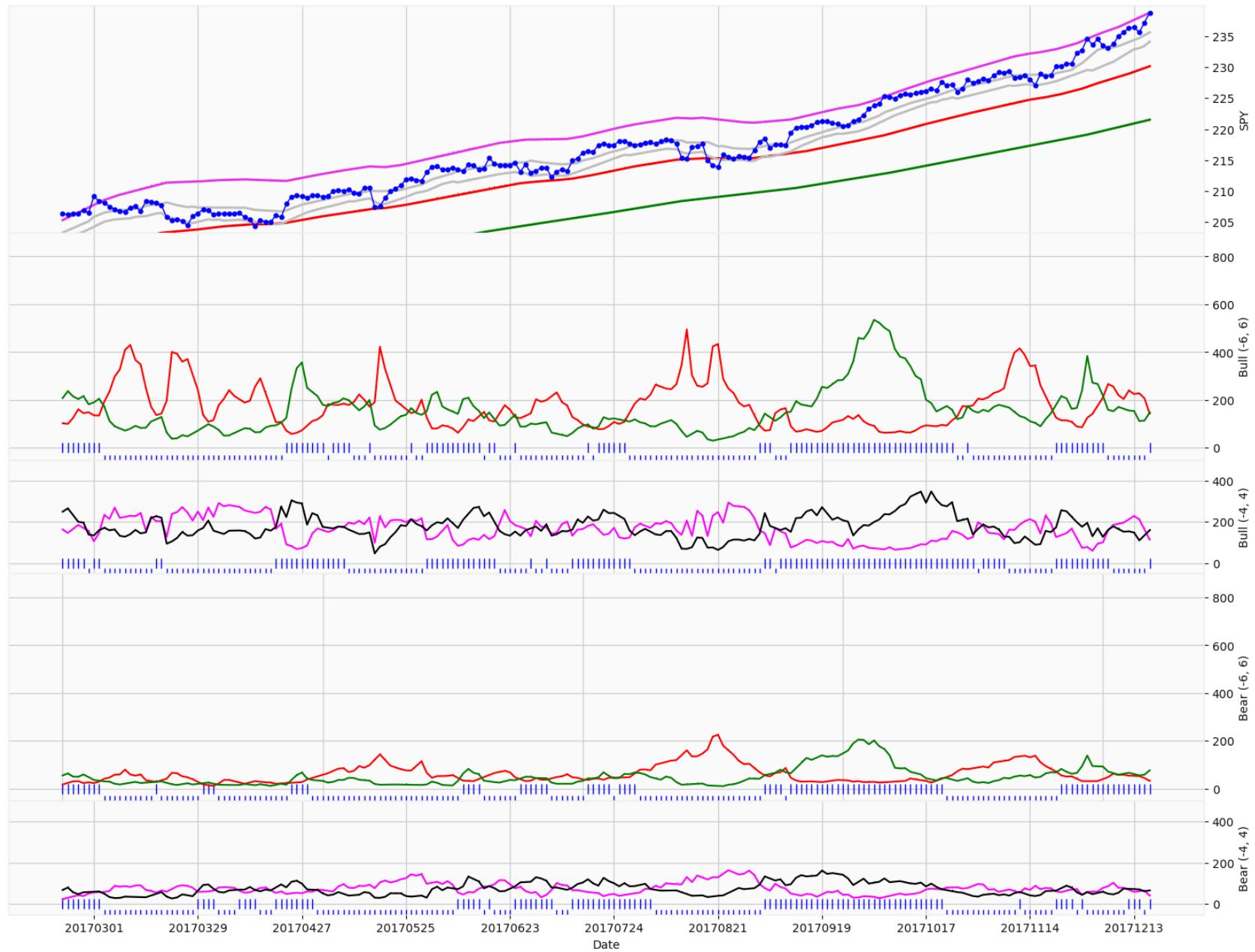


**SPY [2017-12-18] V:93\_651\_910\_000\_000 L:238.55 H:239.10 C:238.73 Wp:238.78 (0.6%) 5**

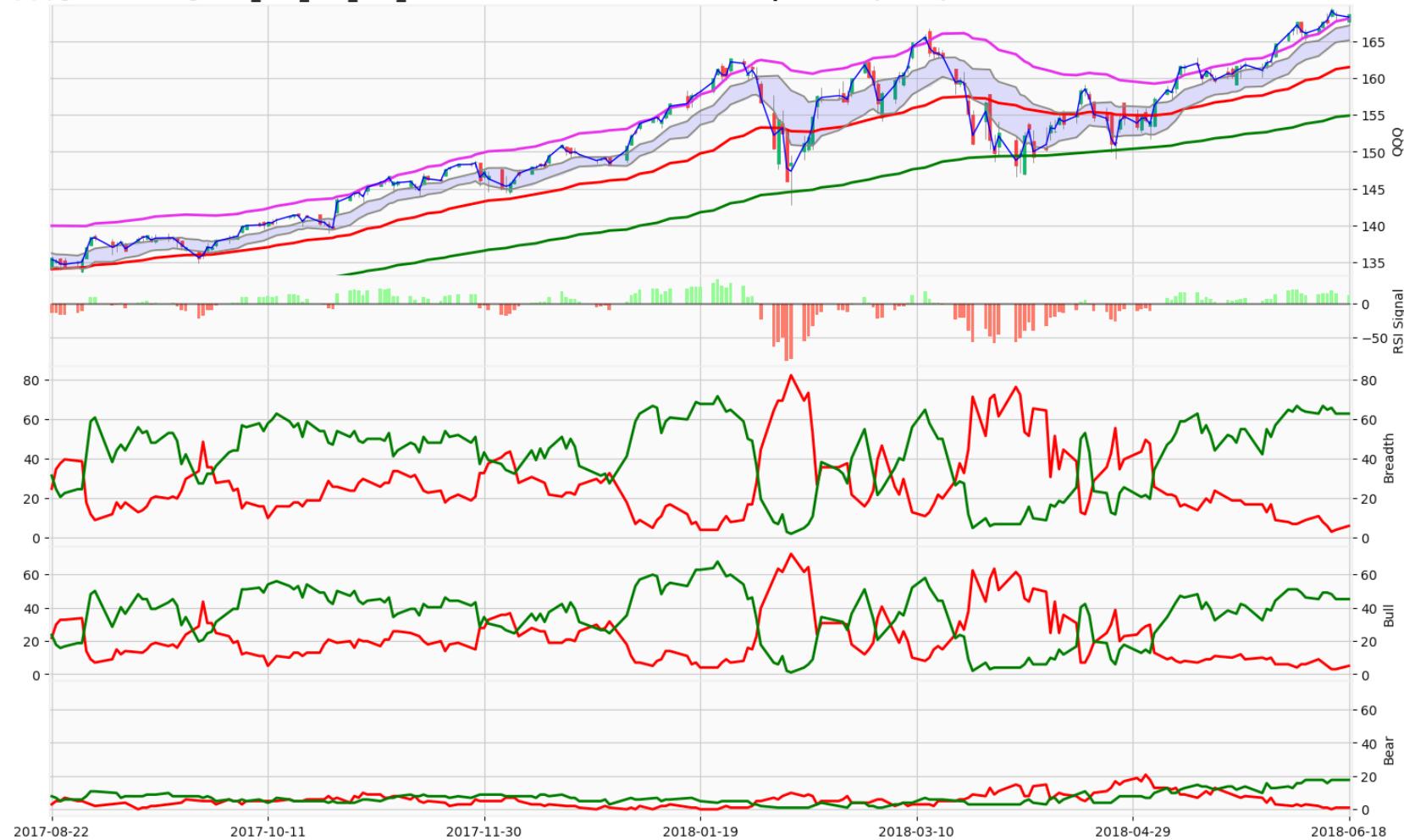
**QQQ [2017-12-18] V:27\_068\_254\_000\_000 L:150.38 H:151.07 C:150.89 Wp:150.81 (0.9%) 5**

**IWM [2017-12-18] V:24\_164\_536\_527\_587 L:144.18 H:145.36 C:144.97 Wp:144.87 (1.4%) 3**

RSI Score Trend: 20170221-20171218

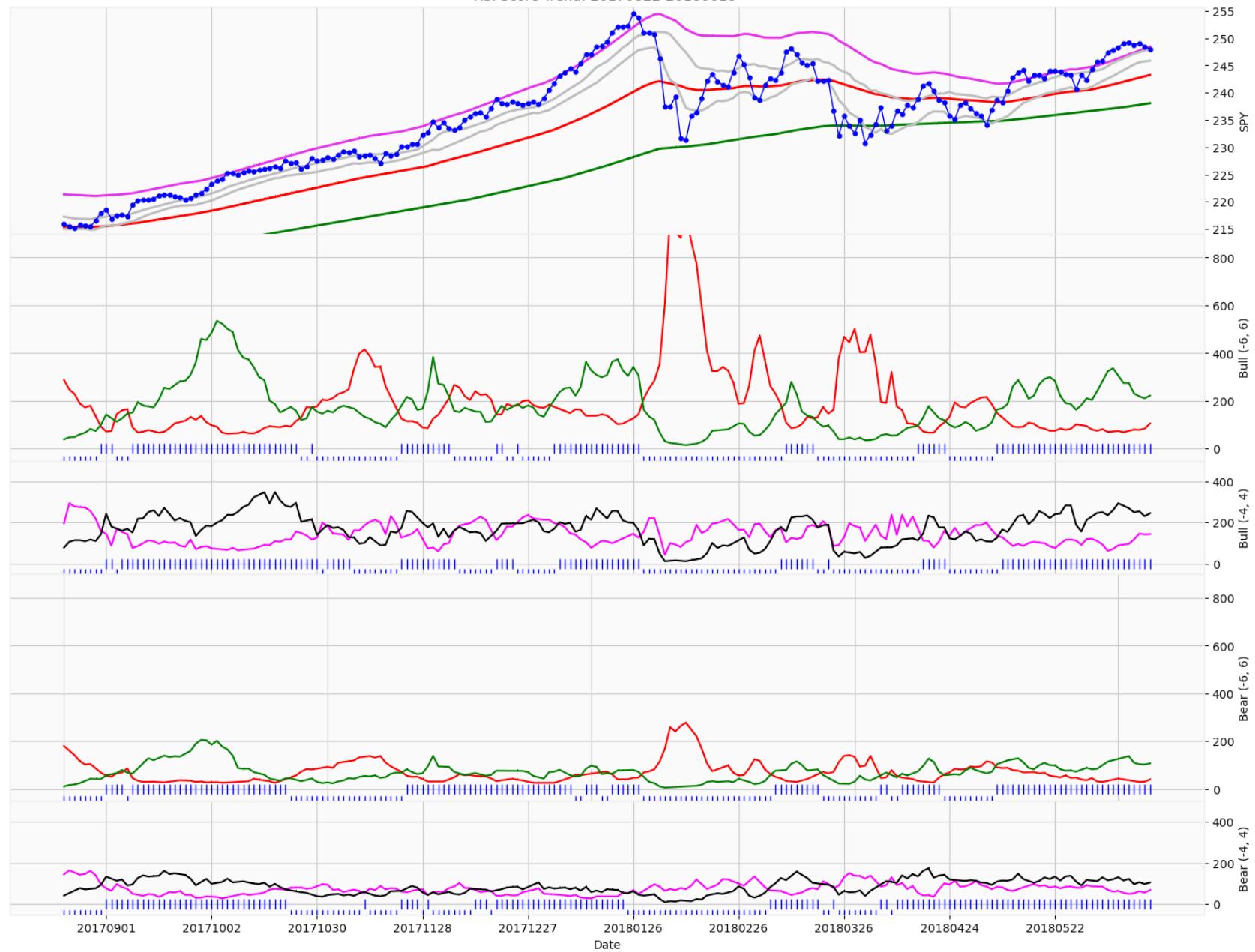


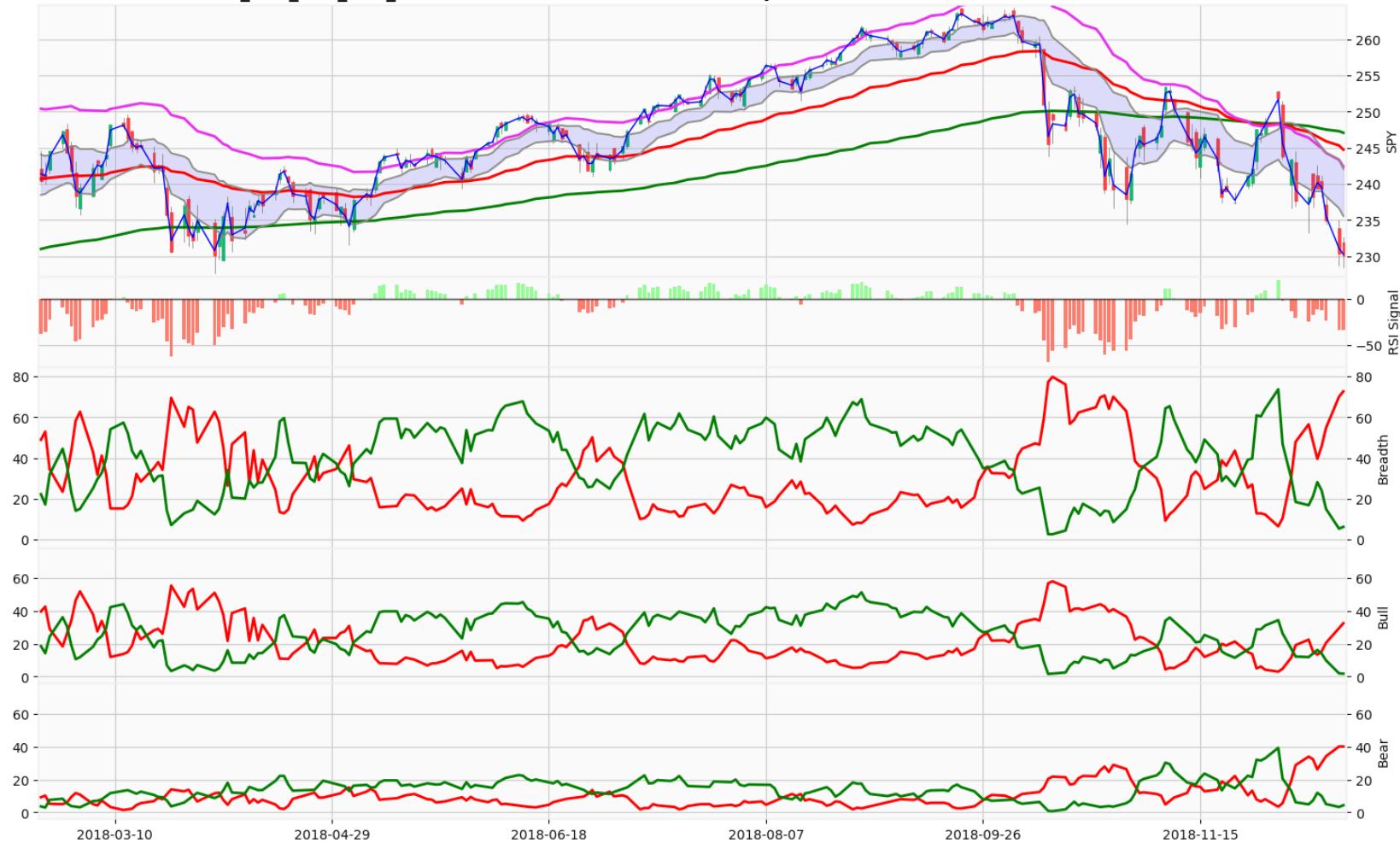
**SPY [2018-06-18] V:58\_943\_464\_000\_000 L:246.85 H:248.43 C:248.30 Wp:247.97 (-0.2%) 4**

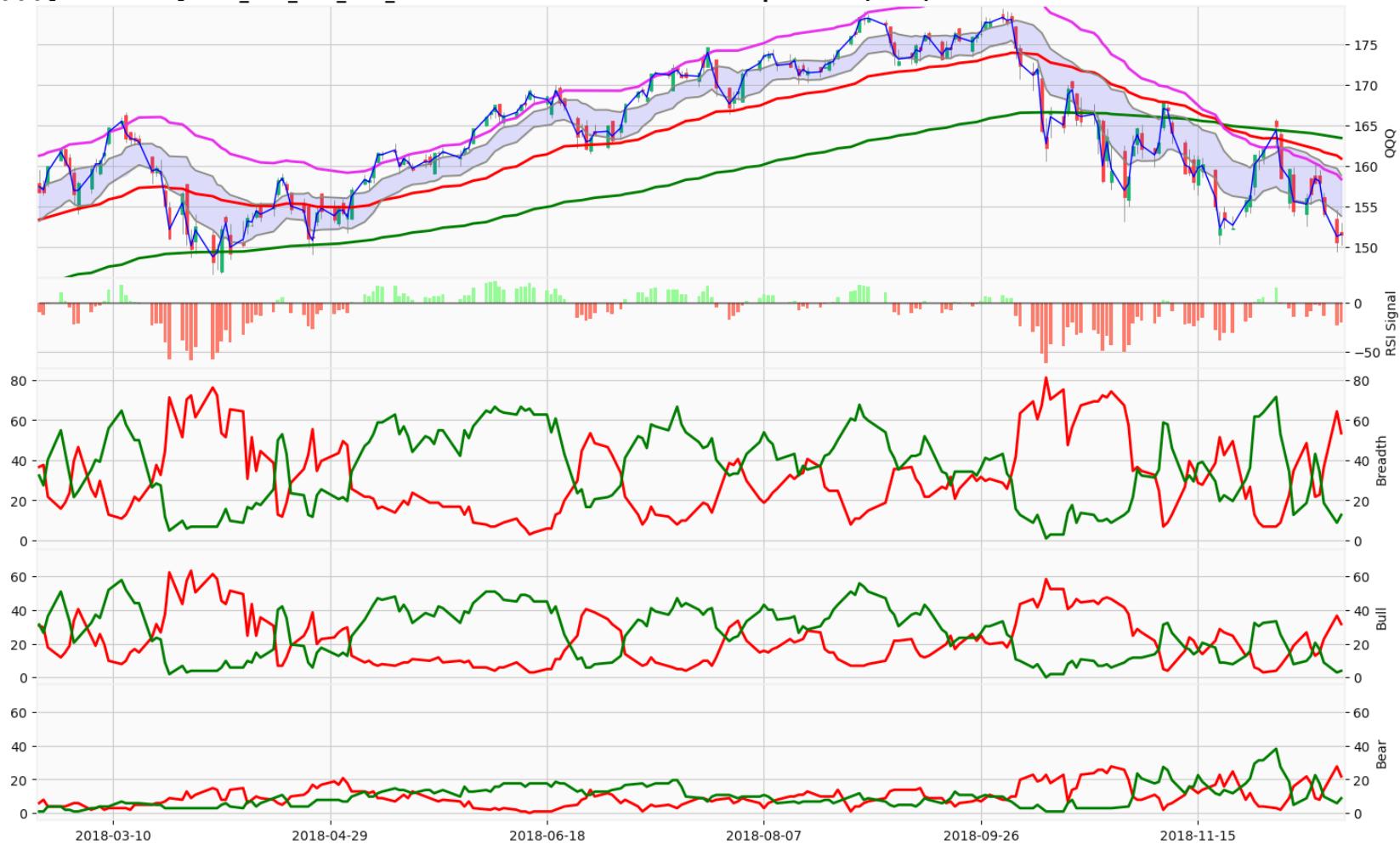
**QQQ [2018-06-18] V:33\_122\_446\_000 L:167.06 H:168.71 C:168.57 Wp:168.23 (-0.1%) 4**

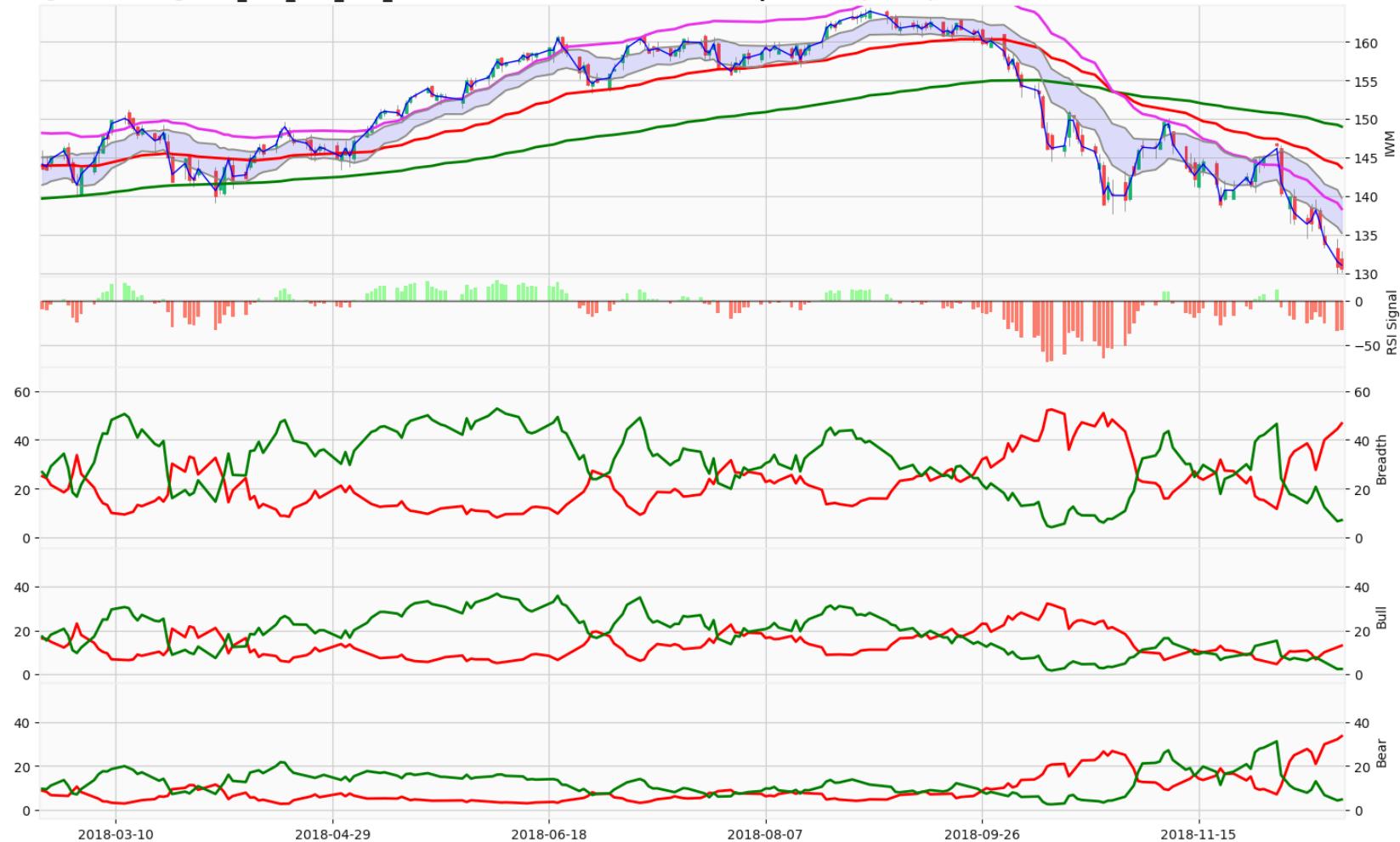
**IWM [2018-06-18] V:19\_695\_035\_143\_341 L:157.59 H:159.38 C:159.37 Wp:158.93 (0.5%) 4**

RSI Score Trend: 20170822-20180618

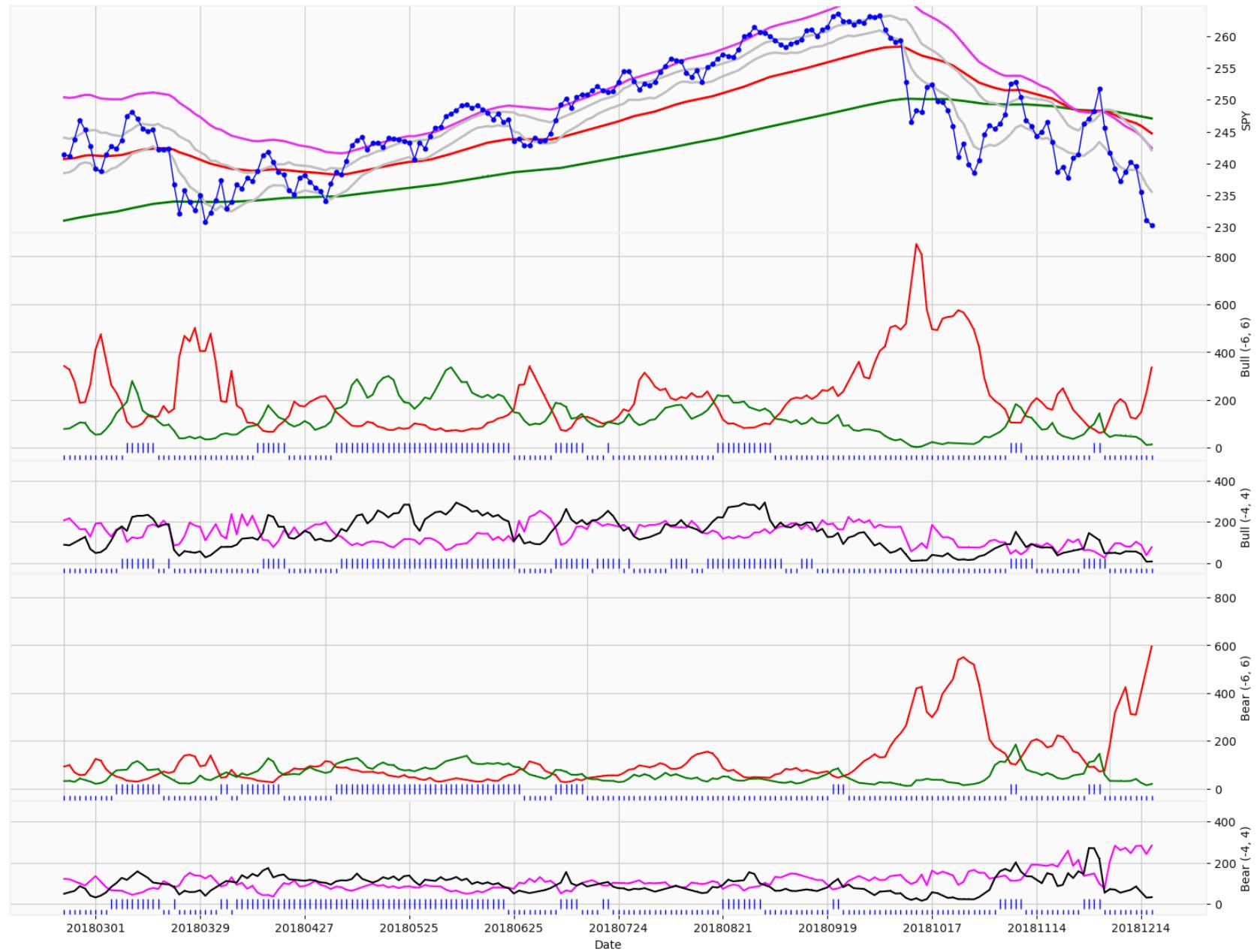


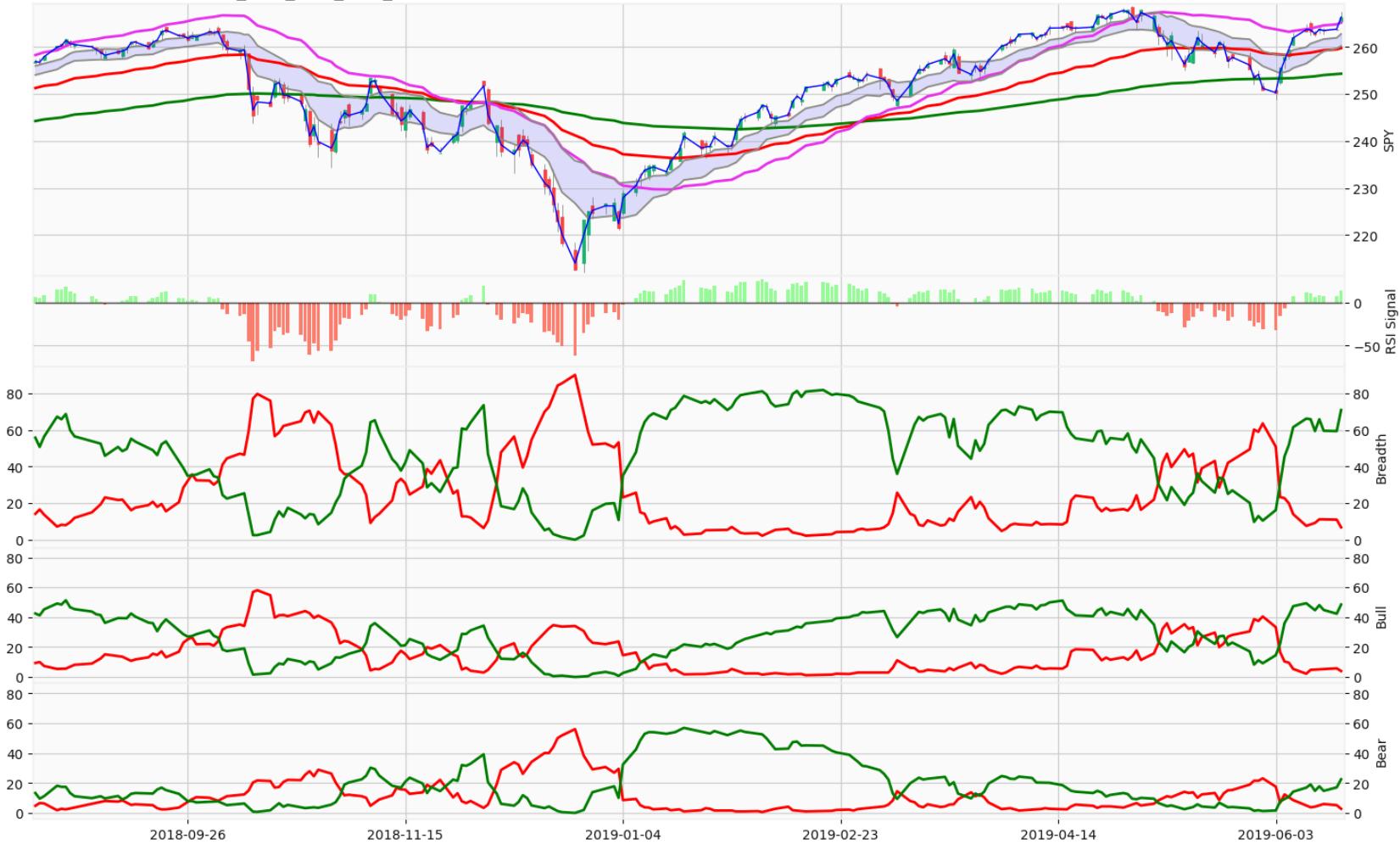
**SPY [2018-12-18] V:149\_159\_056\_000\_000 L:228.42 H:232.63 C:230.03 Wp:230.28 (-0.1%) -6**

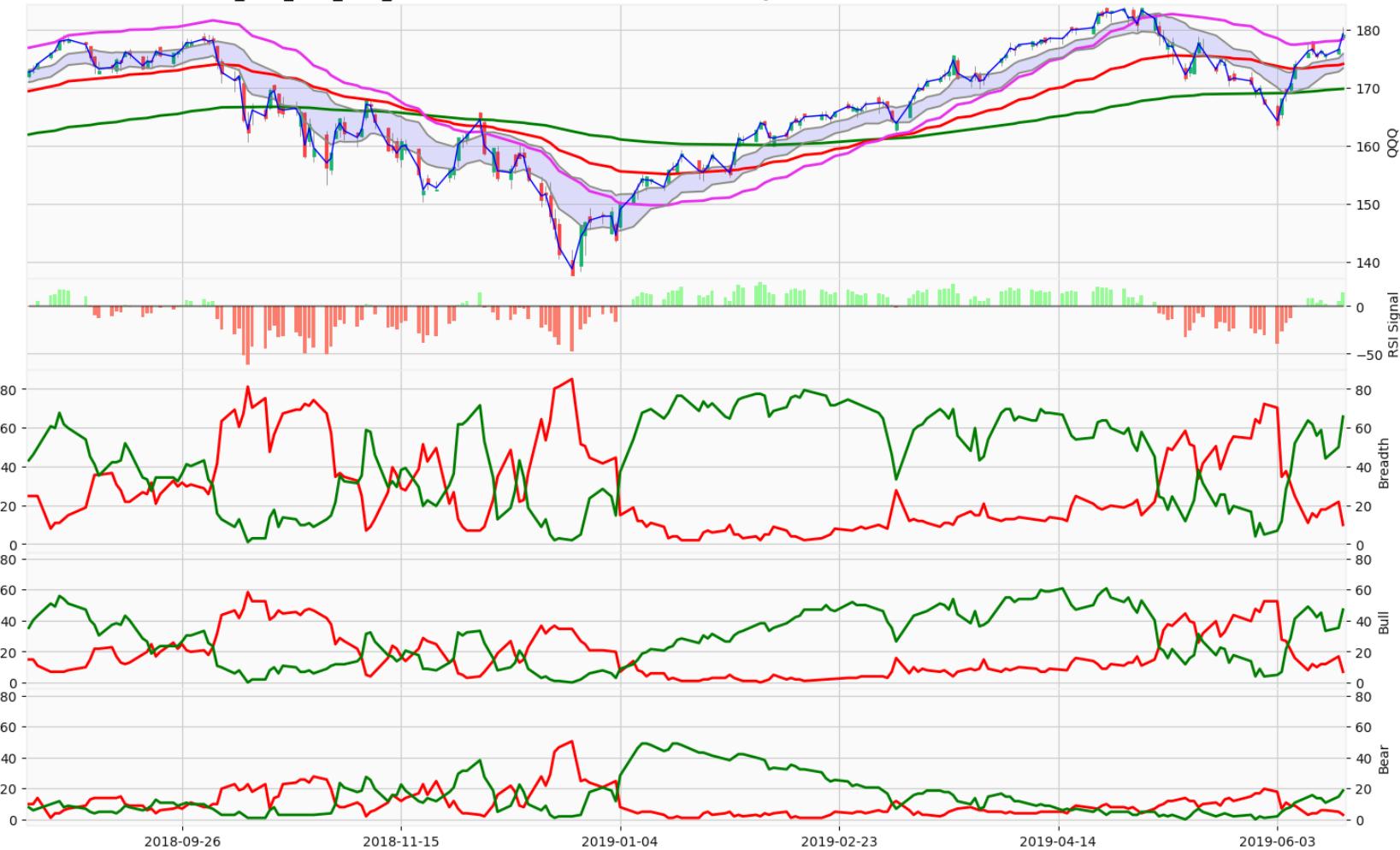
**QQQ [2018-12-18] V:66\_518\_614\_000\_000 L:150.23 H:153.04 C:151.59 Wp:151.61 (0.6%) -6**

**IWM [2018-12-18] V:44\_297\_332\_238\_734 L:130.09 H:132.84 C:130.62 Wp:131.04 (-0.1%) -6**

RSI Score Trend: 20180221-20181218

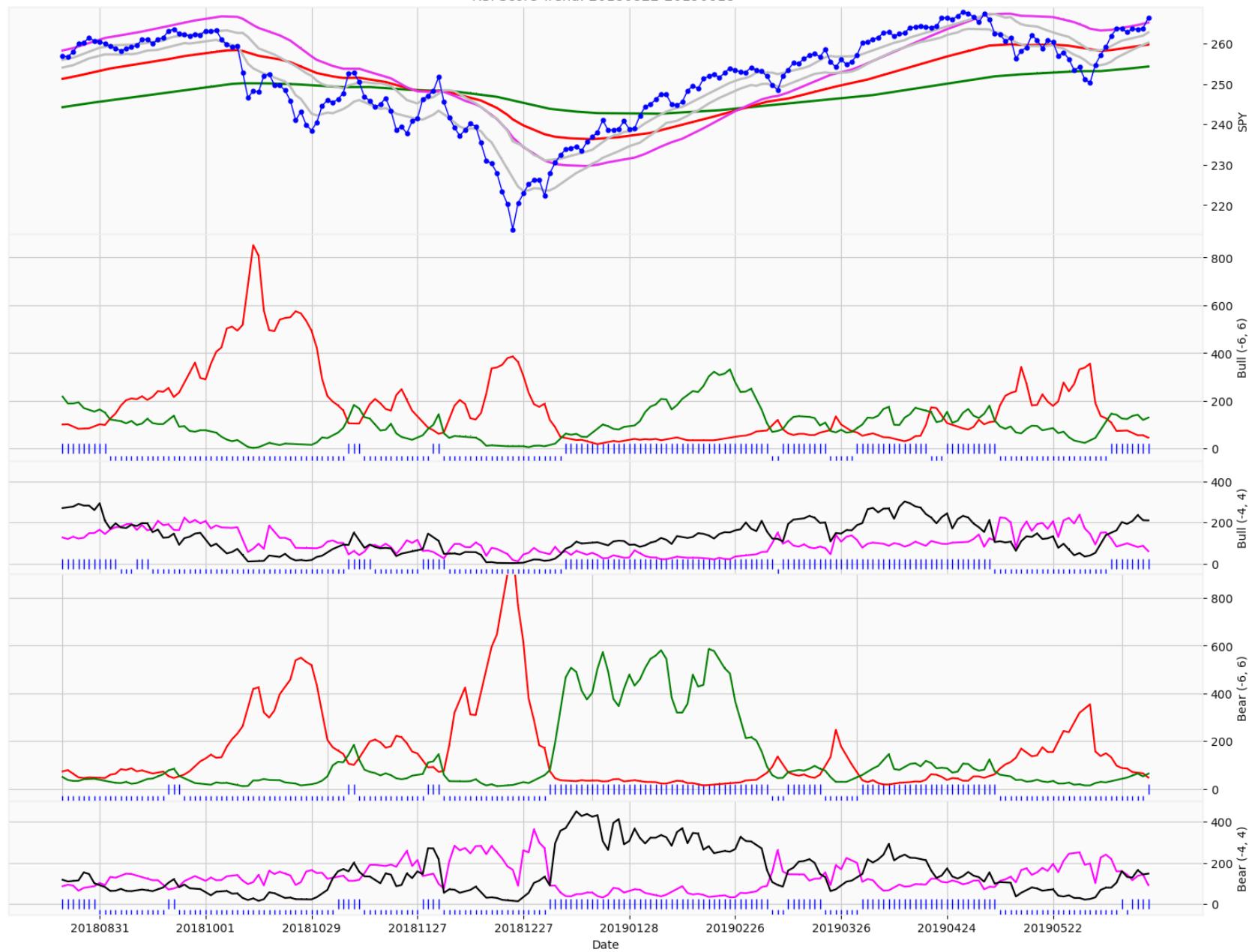


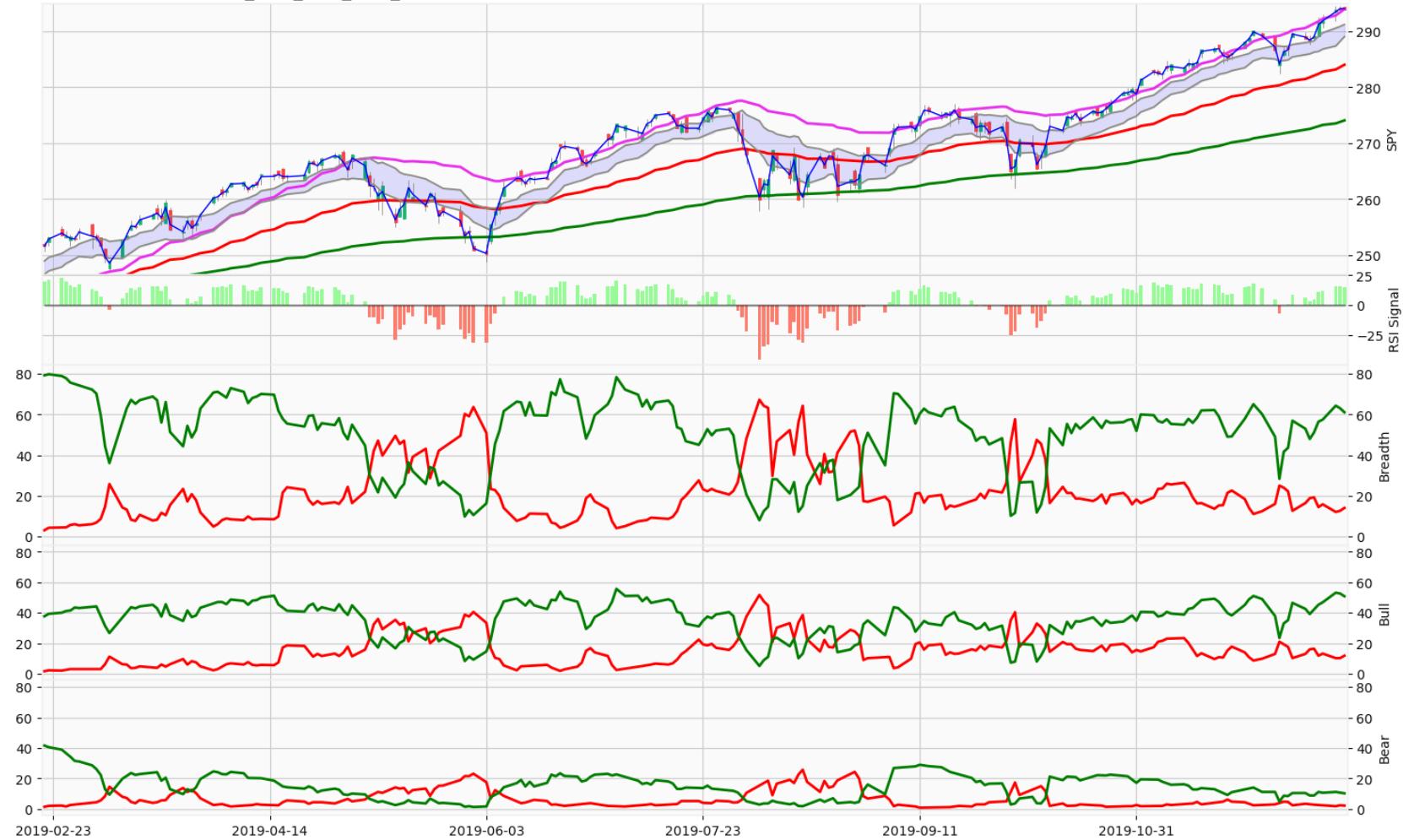
**SPY [2019-06-18] V:93\_771\_716\_000\_000 L:265.13 H:267.47 C:266.39 Wp:266.35 (1.0%) 4**

**QQQ [2019-06-18] V:50\_121\_411\_000\_000 L:178.24 H:180.44 C:179.19 Wp:179.26 (1.5%) 4**

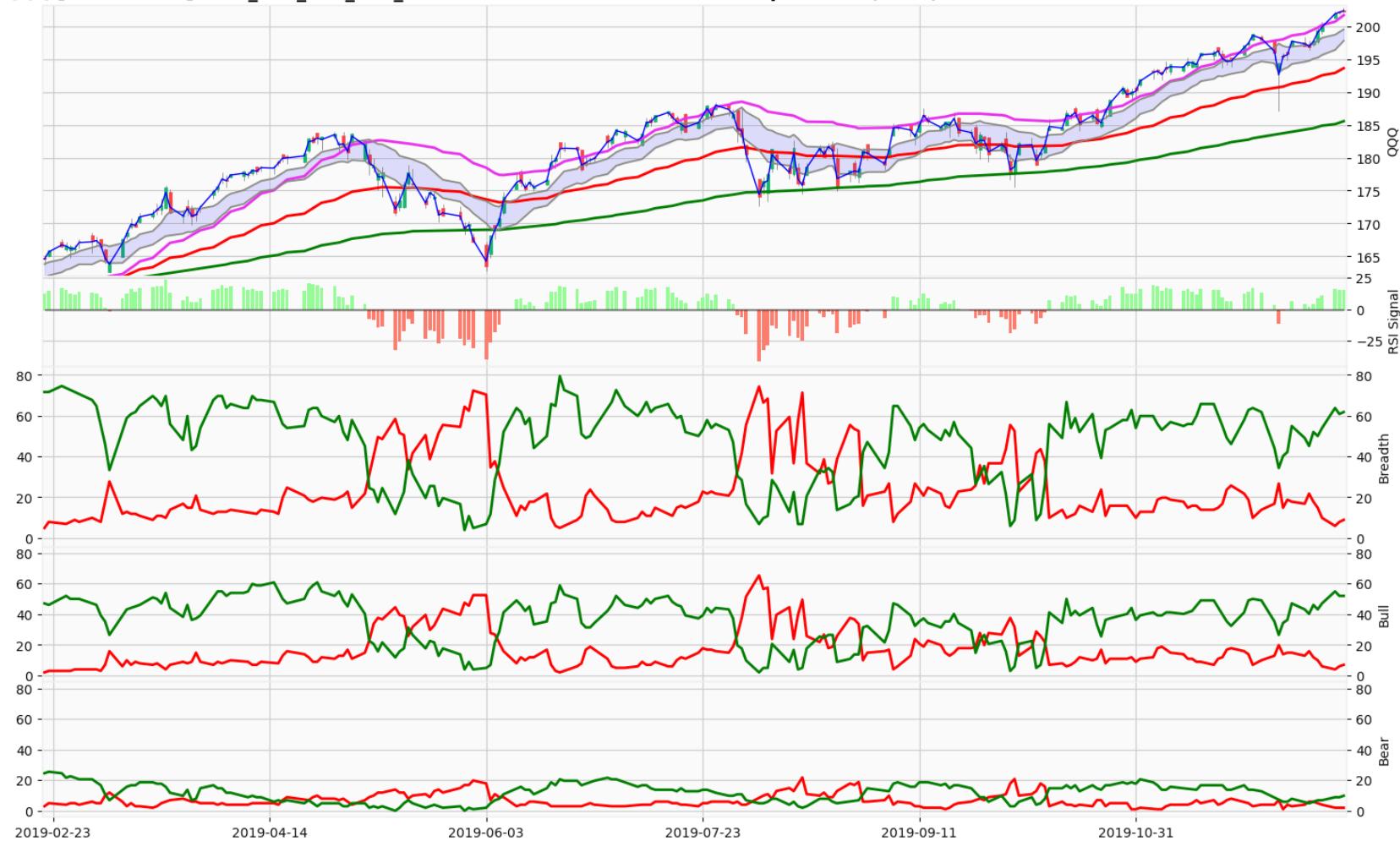
**IWM [2019-06-18] V:23\_014\_839\_964\_581 L:146.22 H:148.98 C:147.90 Wp:147.75 (1.2%) 3**

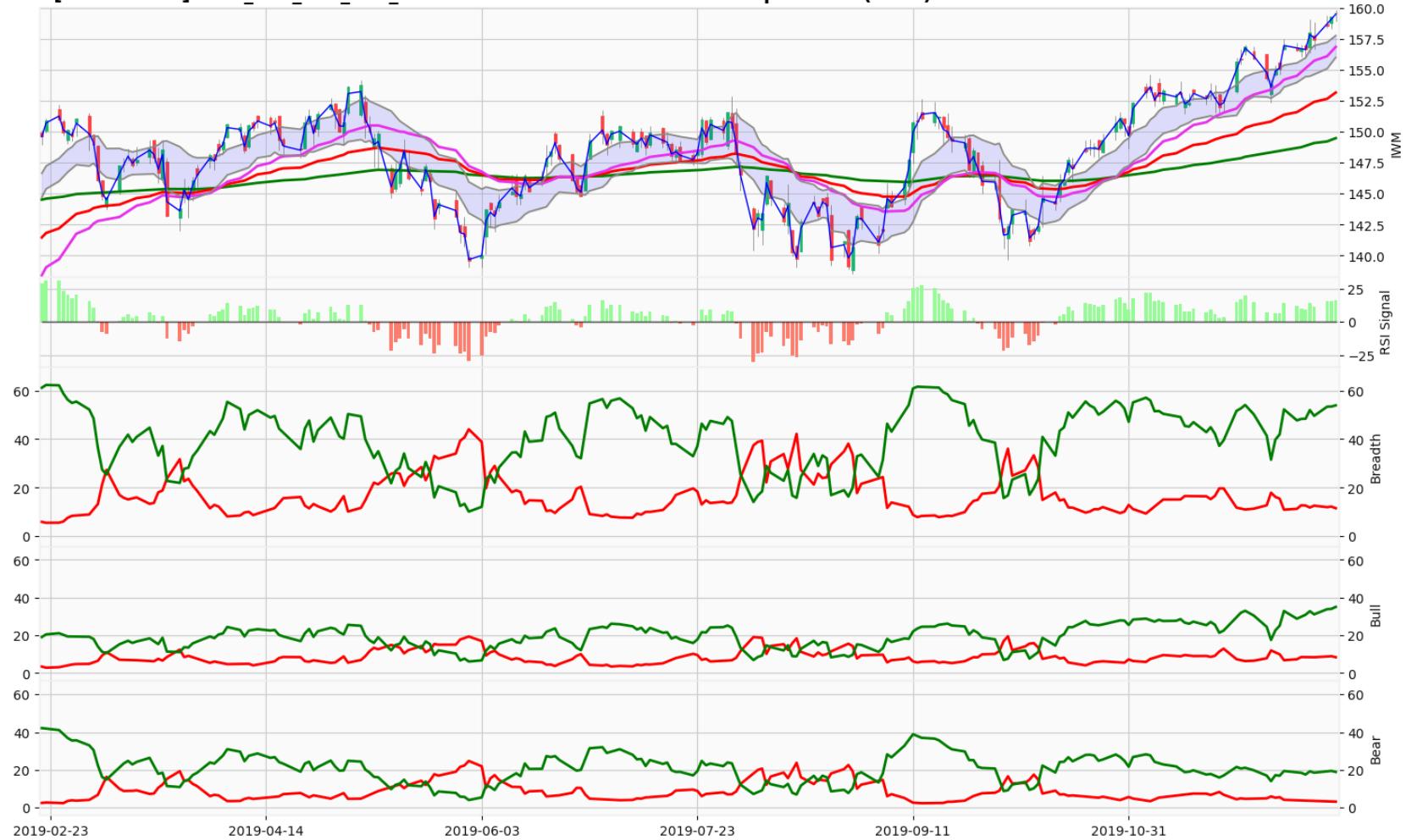
RSI Score Trend: 20180822-20190618



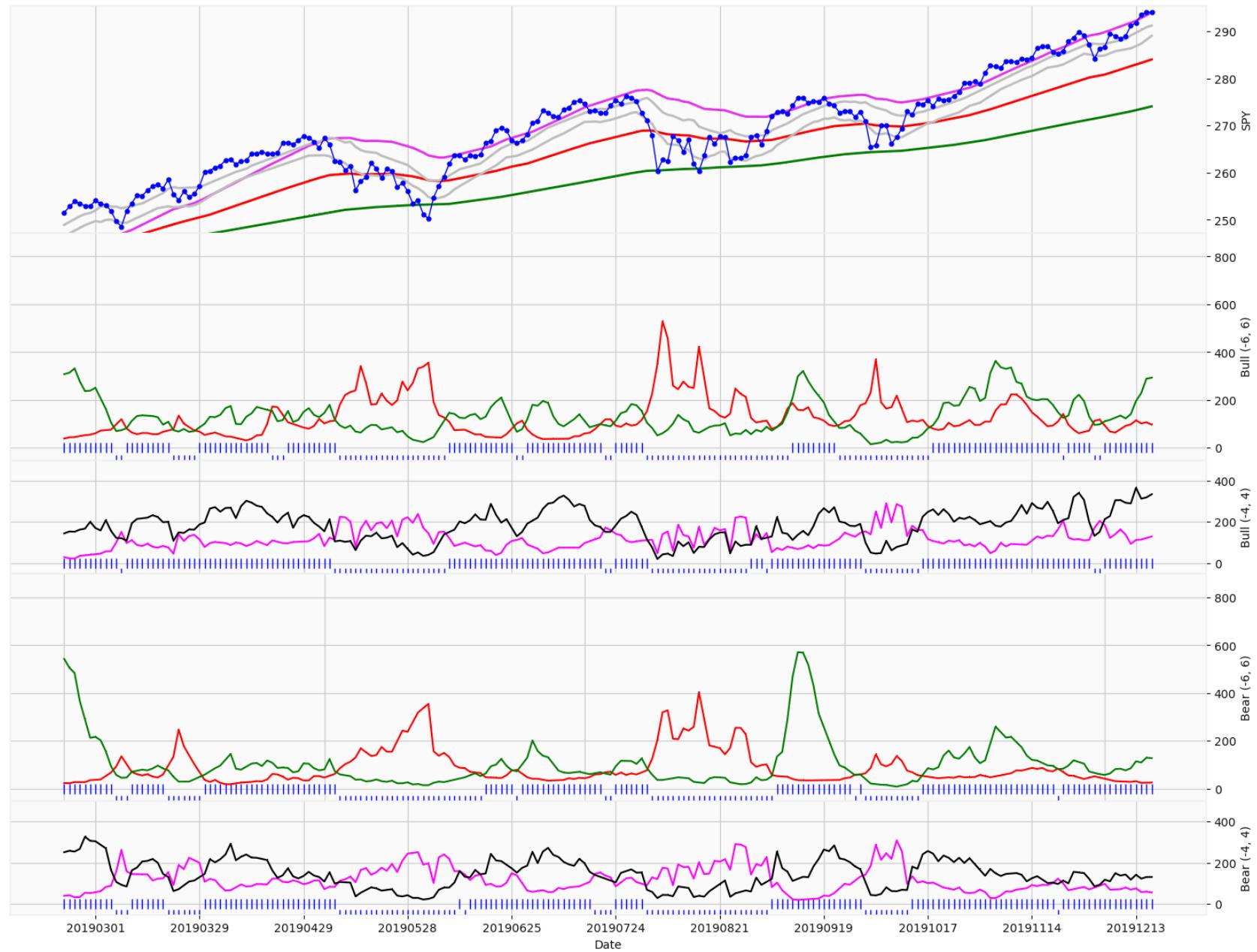
**SPY [2019-12-18] V:52\_406\_386\_000\_000 L:293.88 H:294.55 C:293.94 Wp:294.07 (0.0%) 4**

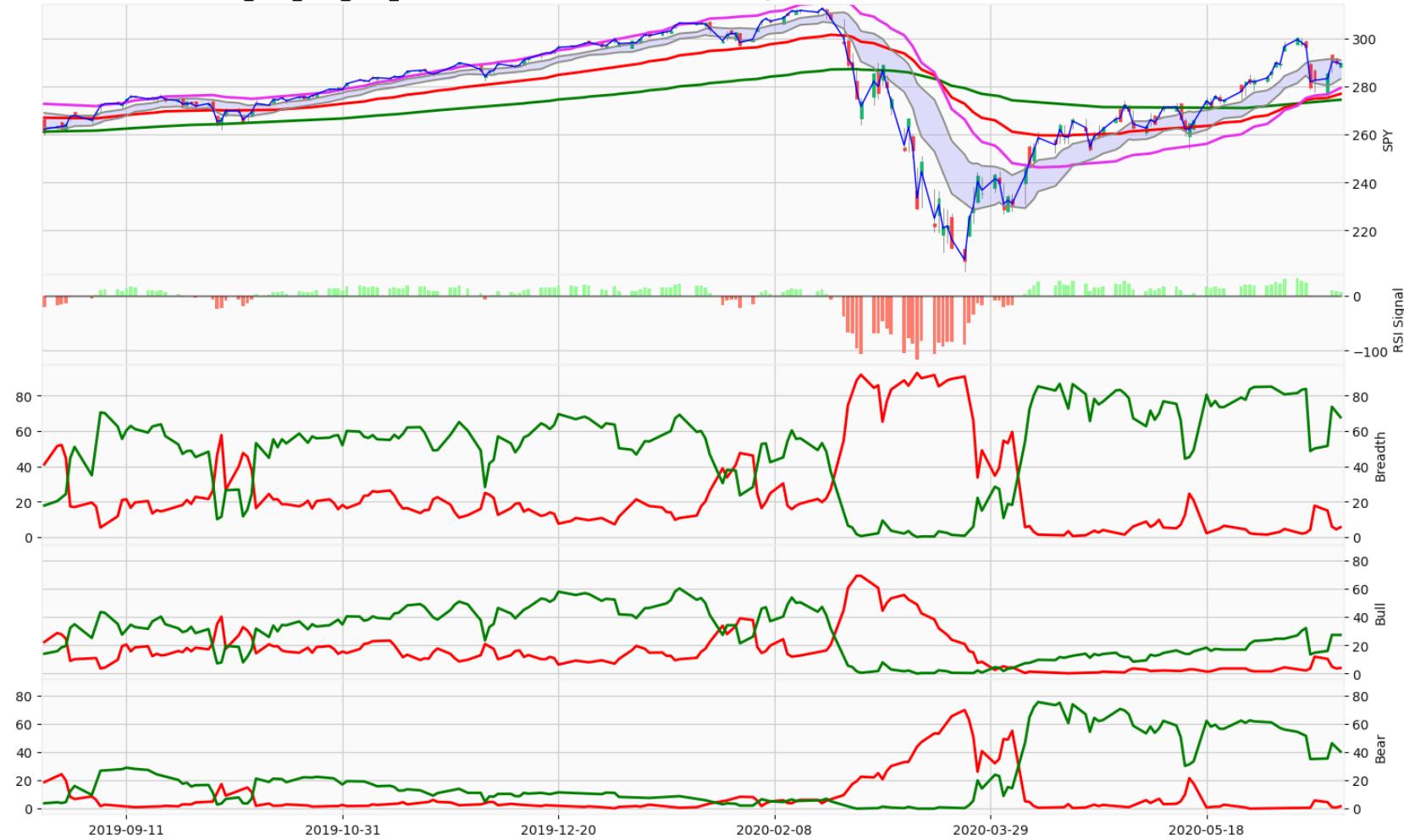
QQQ [2019-12-18] V:16\_048\_014\_000\_000 L:202.07 H:202.84 C:202.28 Wp:202.37 (0.1%) 4

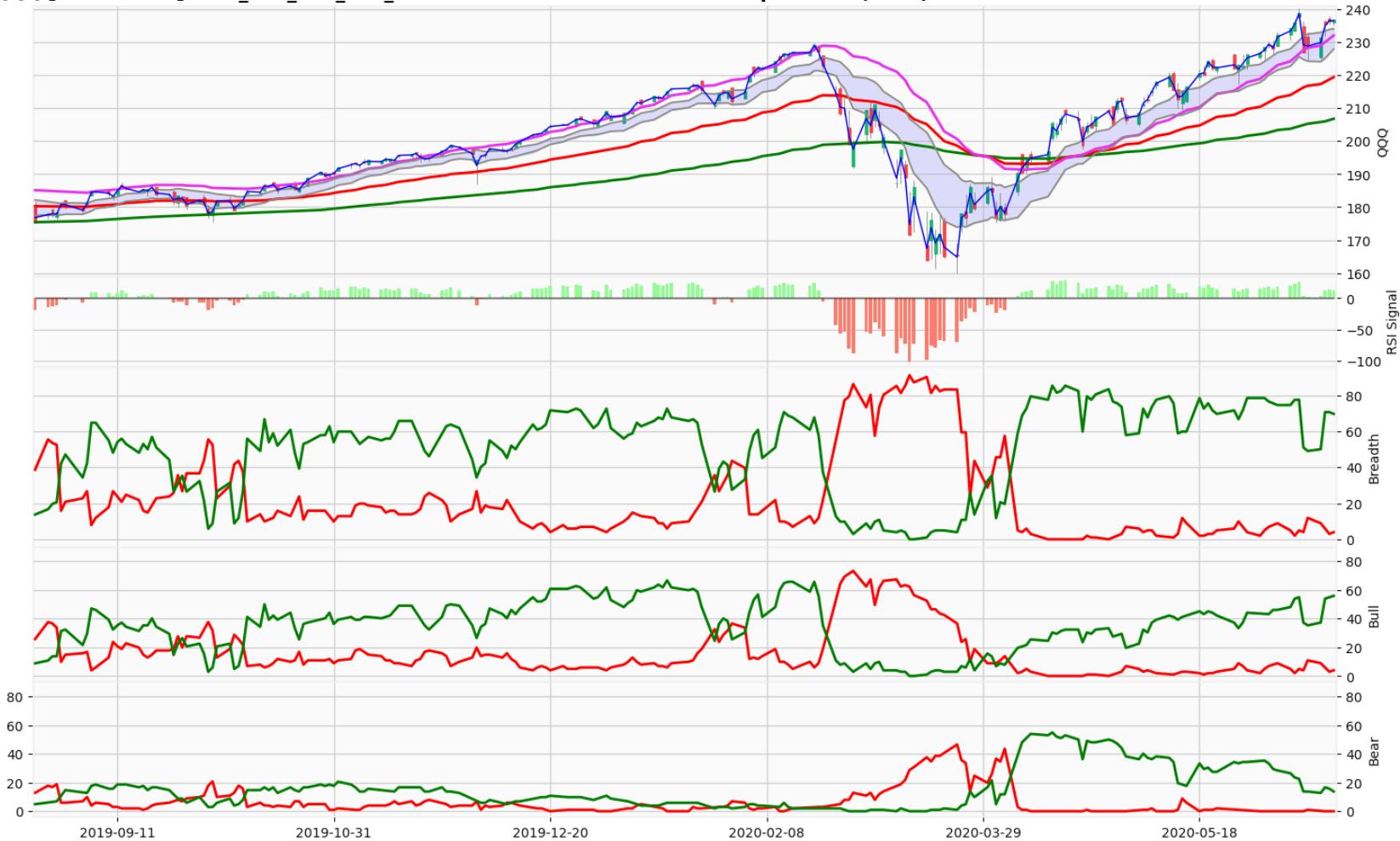


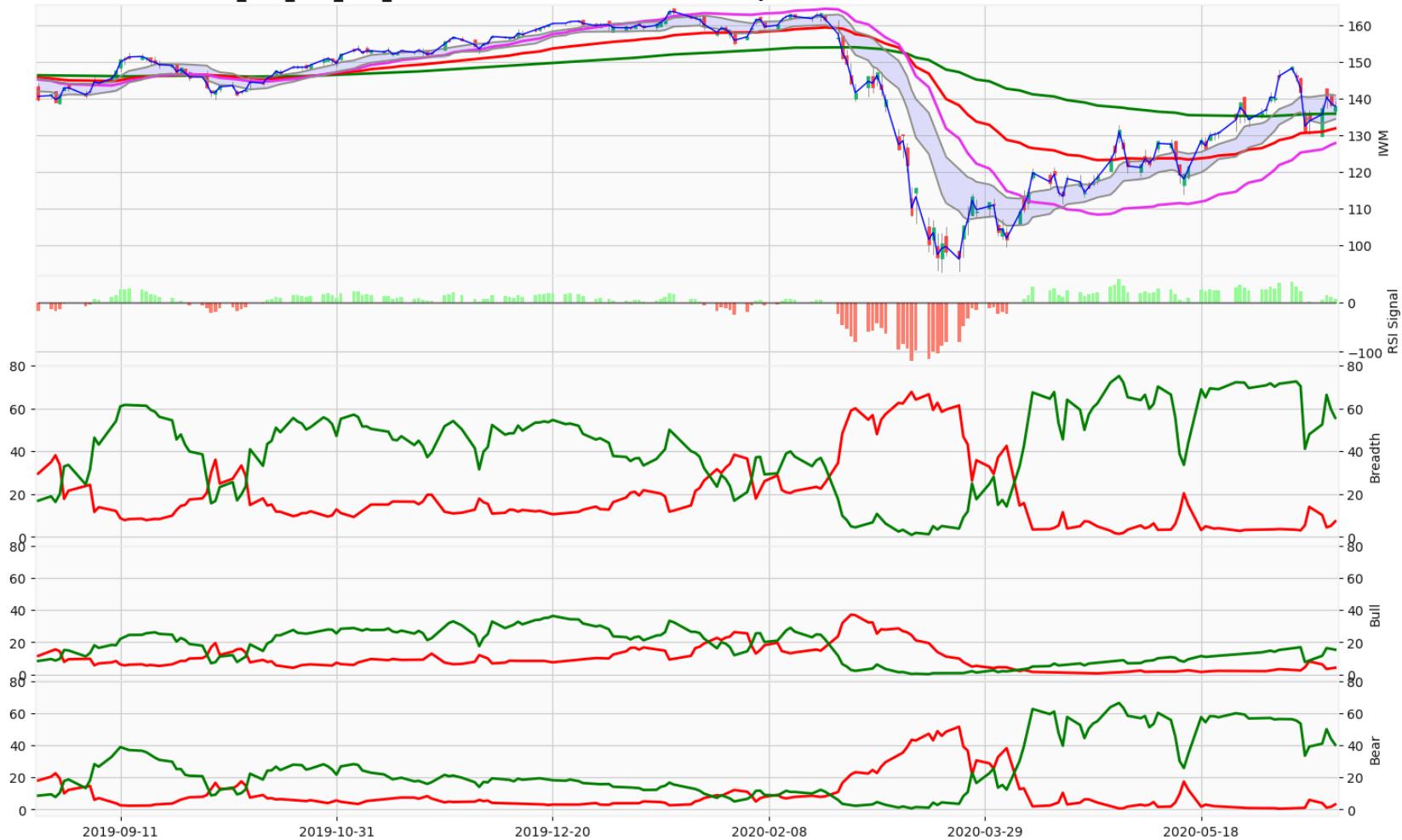
**IWM [2019-12-18] V:15\_984\_476\_295\_104 L:158.94 H:159.84 C:159.59 Wp:159.49 (0.2%) 4**

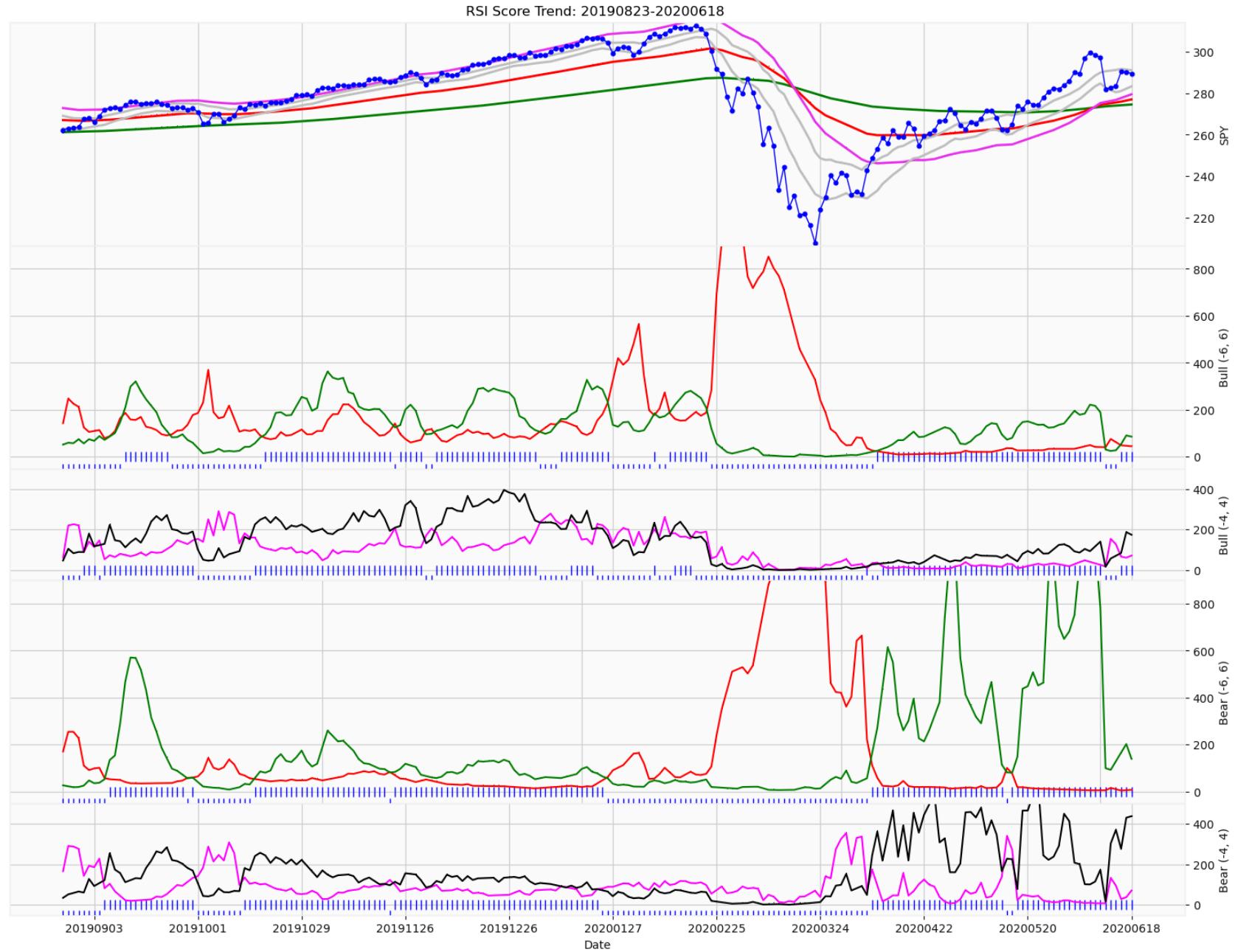
RSI Score Trend: 20190221-20191218

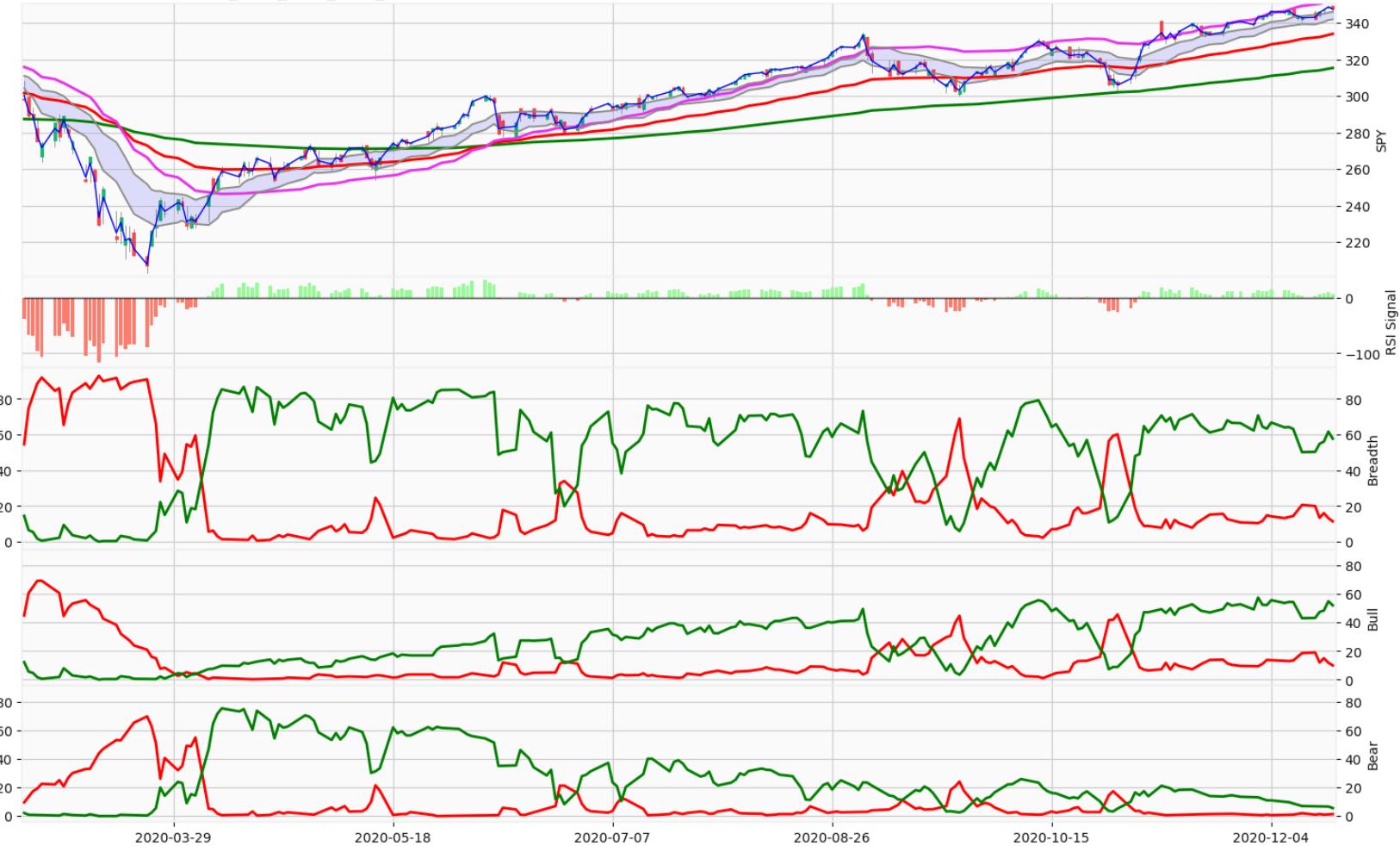


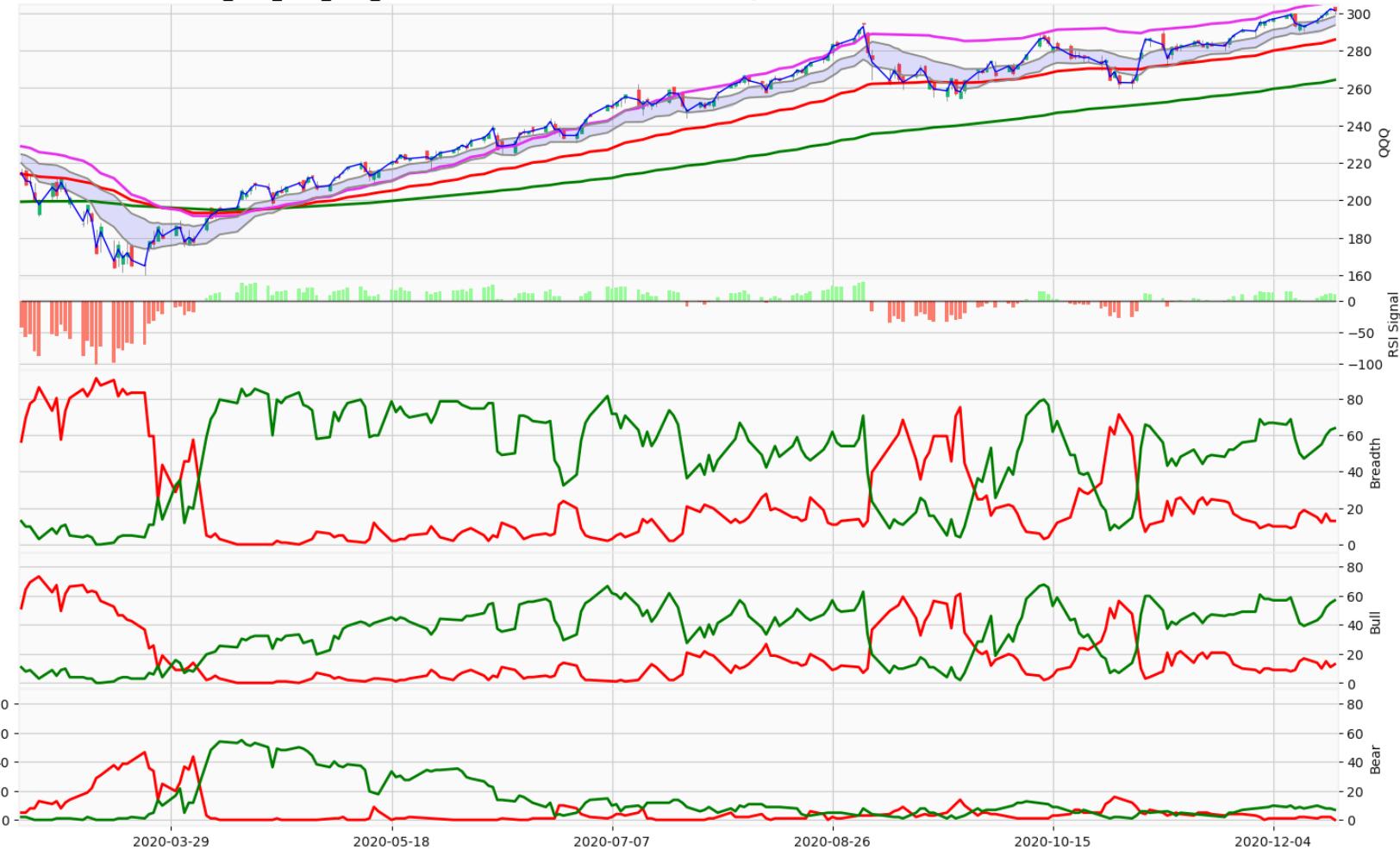
**SPY [2020-06-18] V:86\_939\_952\_000\_000 L:287.75 H:290.35 C:289.87 Wp:289.46 (0.0%) 4**

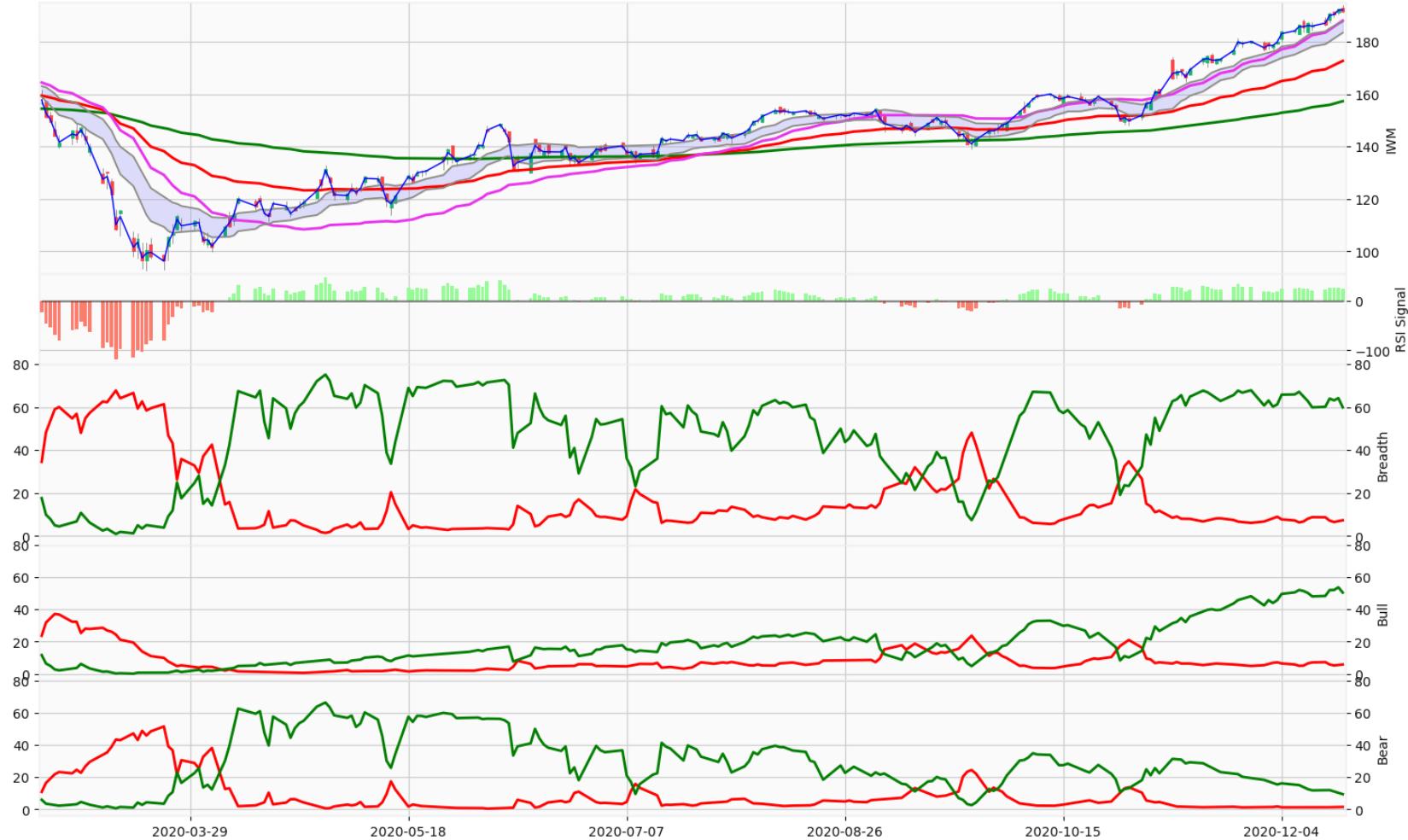
**QQQ [2020-06-18] V:31\_538\_398\_000\_000 L:235.12 H:237.09 C:236.84 Wp:236.47 (0.3%) 4**

**IWM [2020-06-18] V:27\_688\_653\_464\_931 L:136.21 H:139.61 C:138.06 Wp:137.99 (-0.0%) 4**

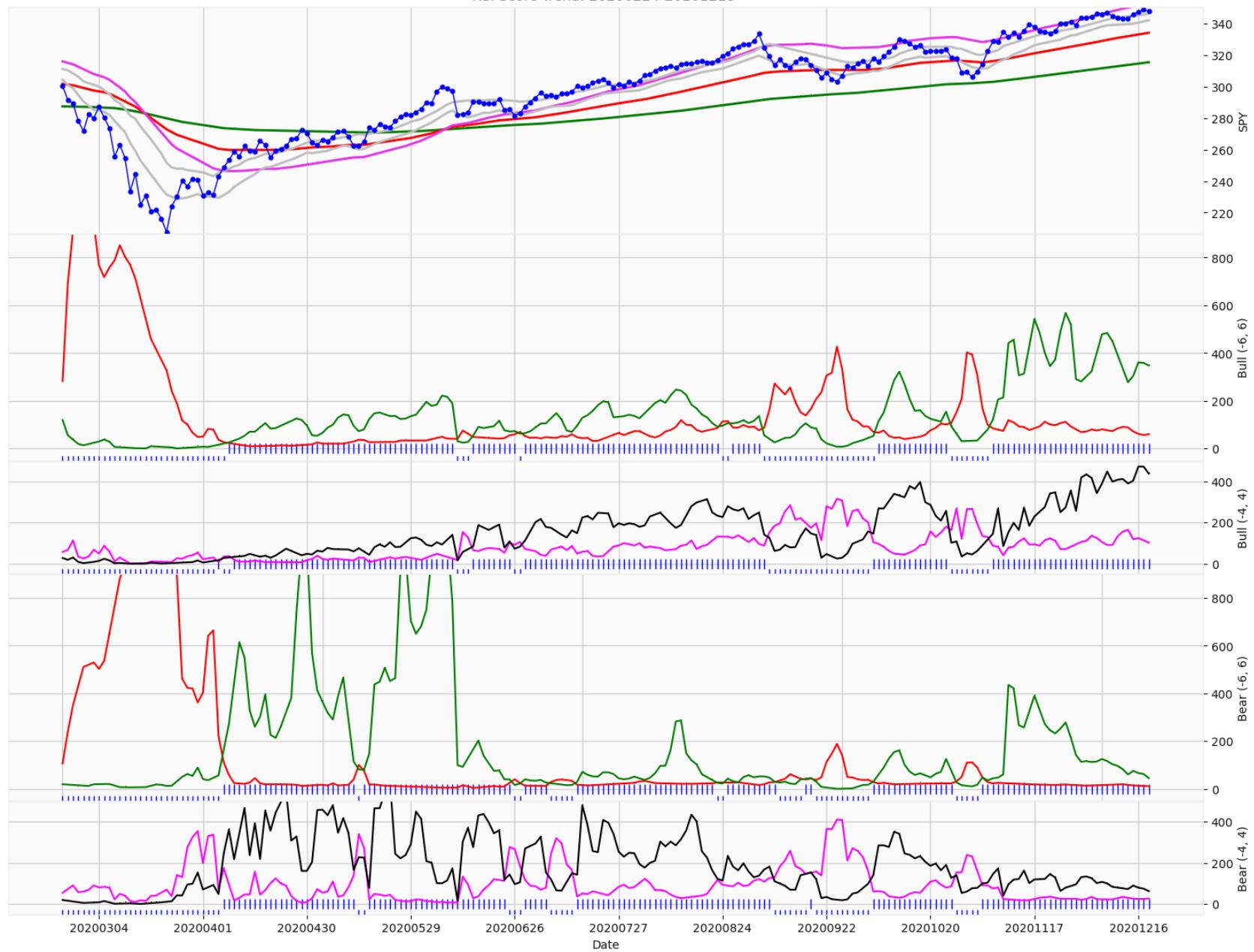


**SPY [2020-12-18] V:145\_019\_083\_000\_000 L:345.56 H:349.46 C:347.60 Wp:347.56 (-0.4%) 4**

**QQQ [2020-12-18] V:42\_329\_949\_000\_000 L:299.20 H:303.45 C:301.58 Wp:301.46 (-0.3%) 4**

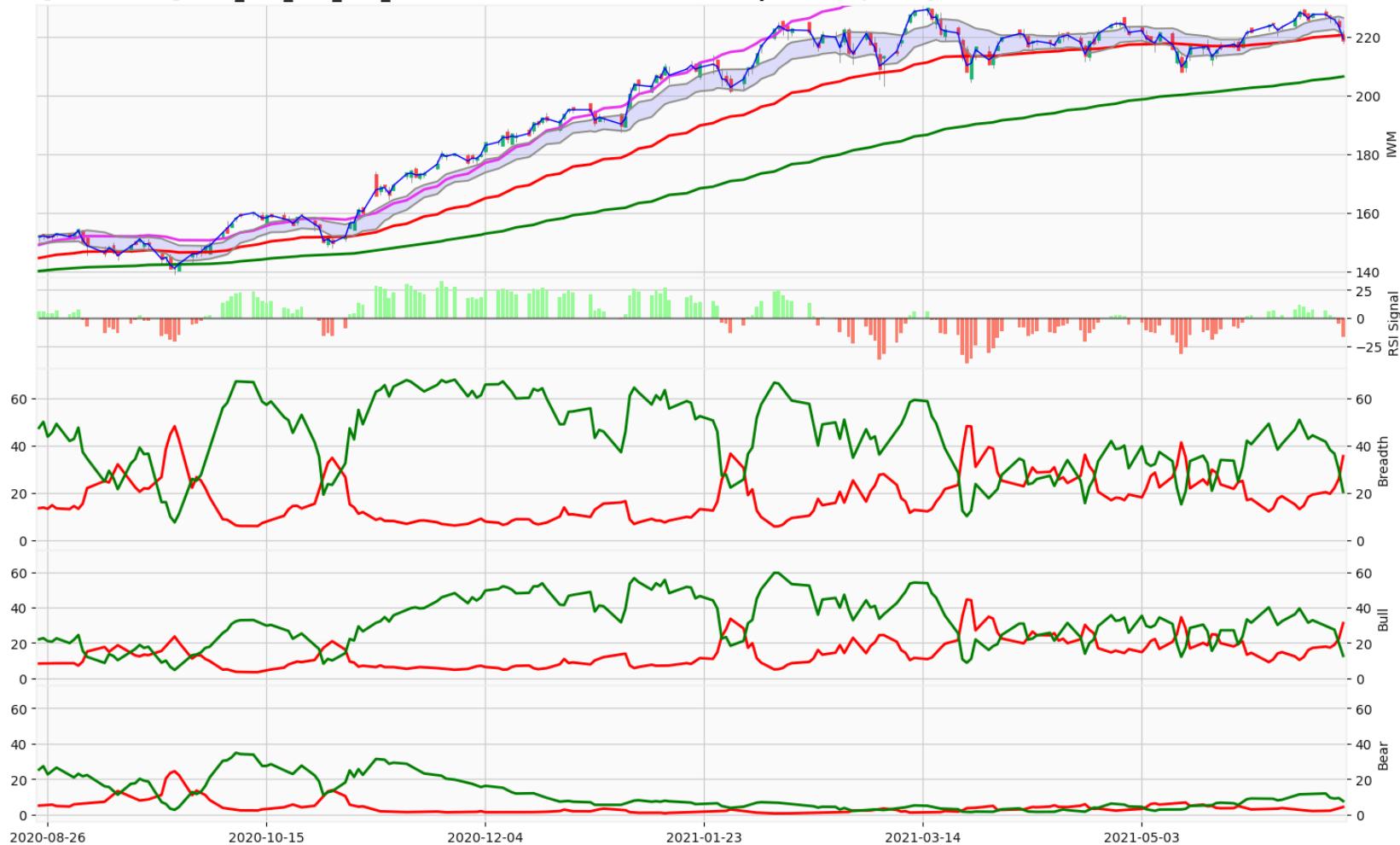
**IWM [2020-12-18] V:37\_751\_684\_280\_373 L:191.09 H:194.07 C:191.63 Wp:192.10 (-0.5%) 6**

RSI Score Trend: 20200224-20201218

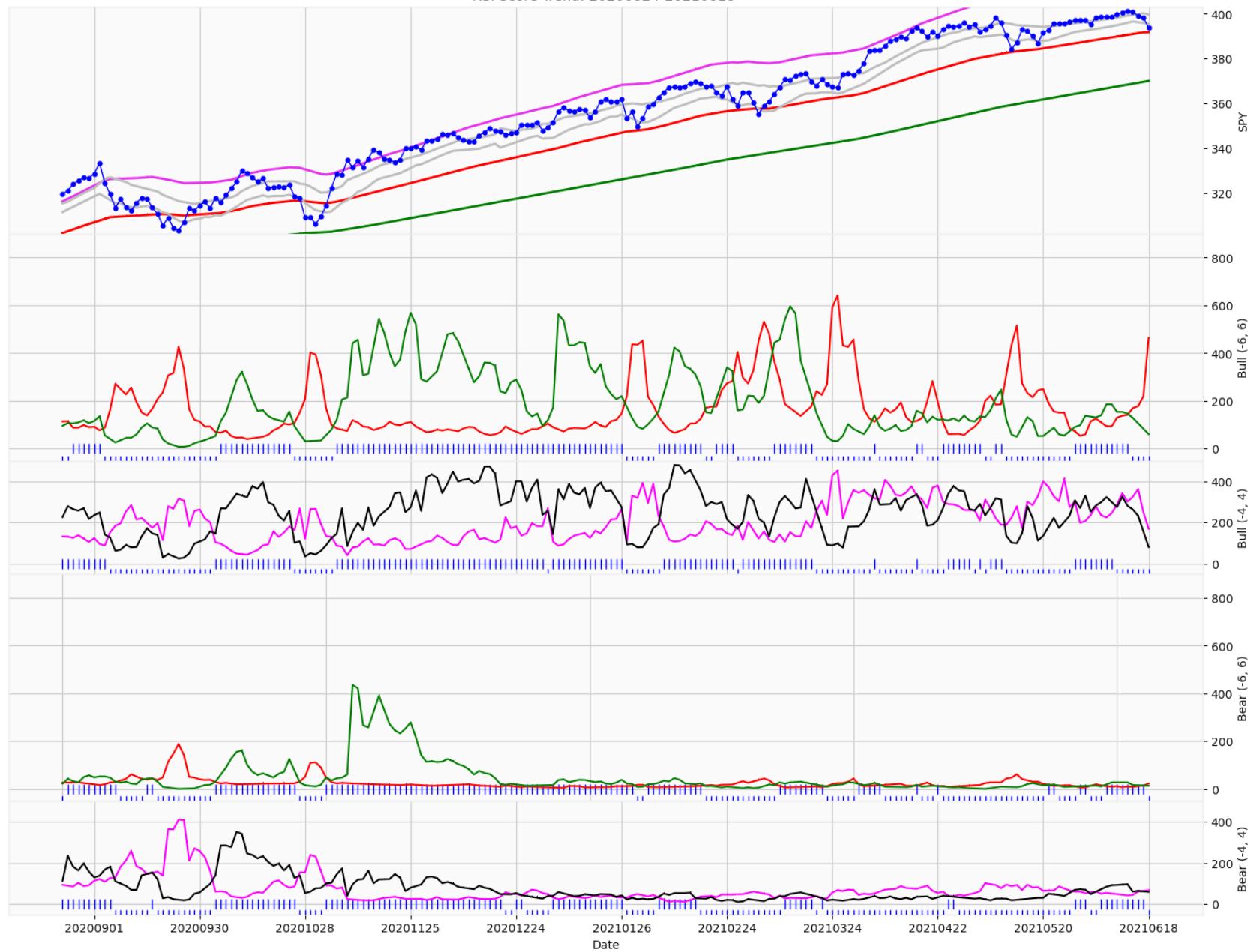


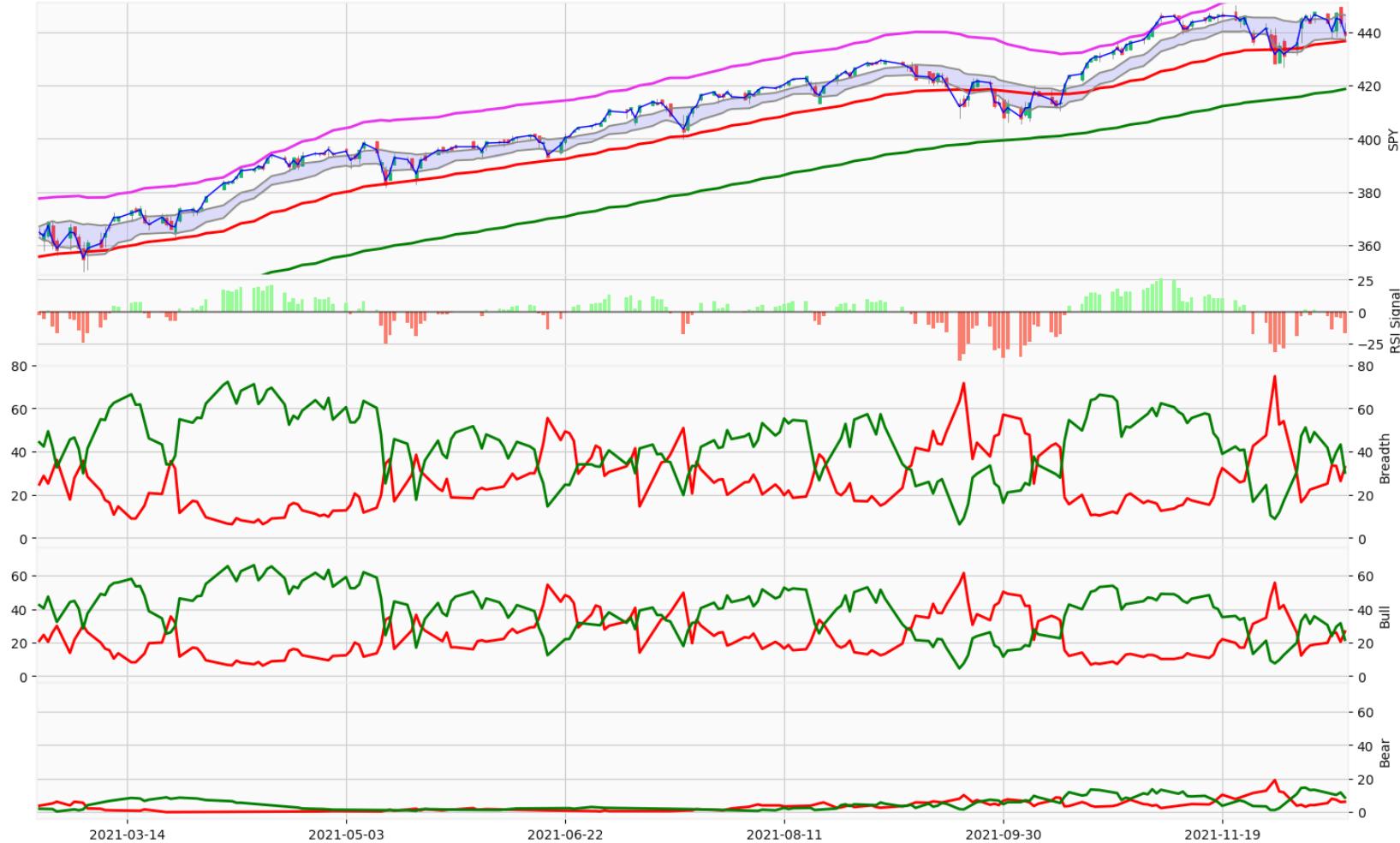
**SPY [2021-06-18] V:125\_220\_926\_000\_000 L:393.02 H:395.99 C:393.23 Wp:393.87 (-1.3%) -3**

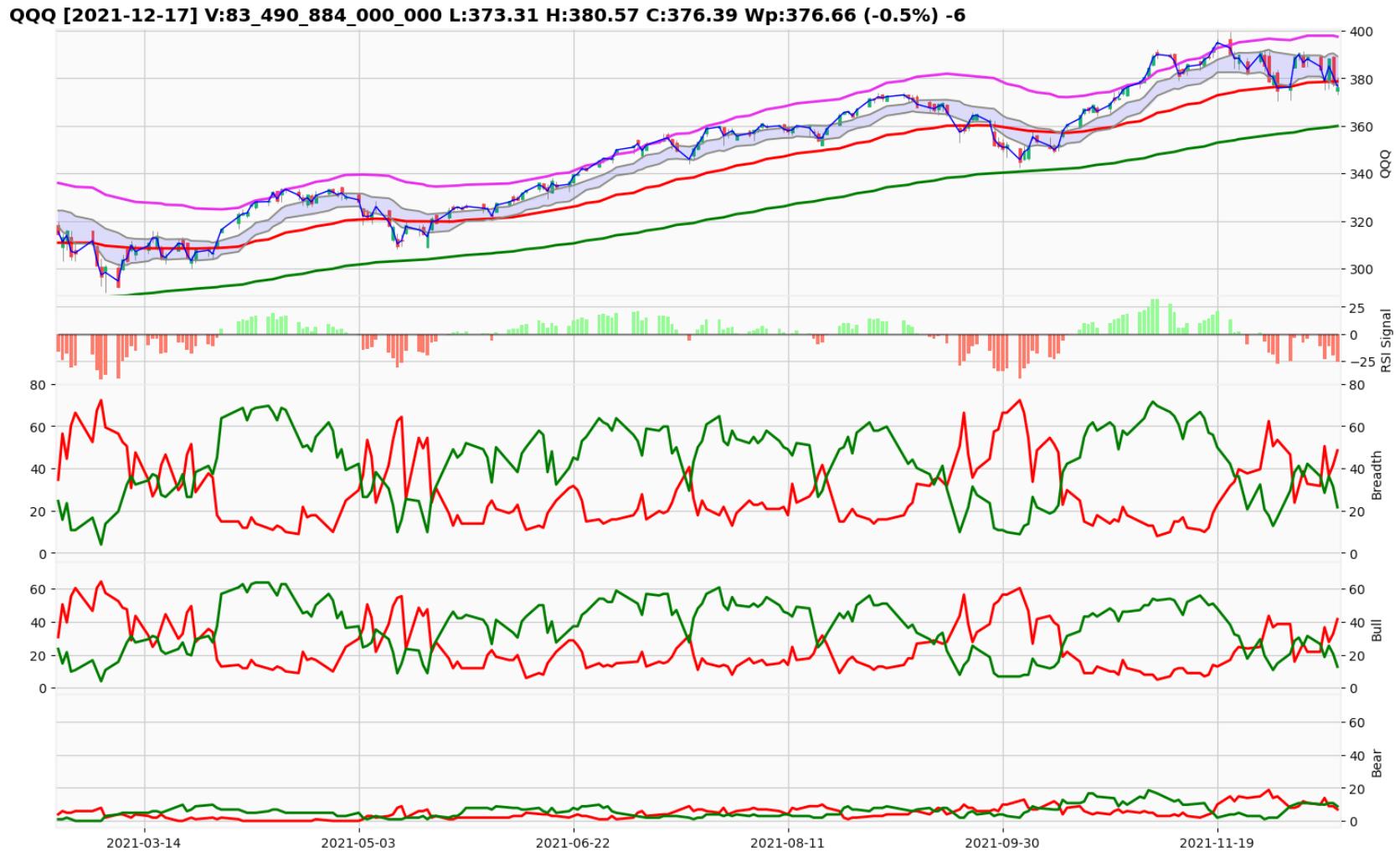
**QQQ [2021-06-18] V:56\_797\_739\_000\_000 L:333.54 H:336.42 C:334.28 Wp:334.63 (-0.8%) 4**

**IWM [2021-06-18] V:54\_884\_538\_943\_783 L:217.66 H:222.19 C:218.66 Wp:219.29 (-2.3%) -3**

RSI Score Trend: 20200824-20210618

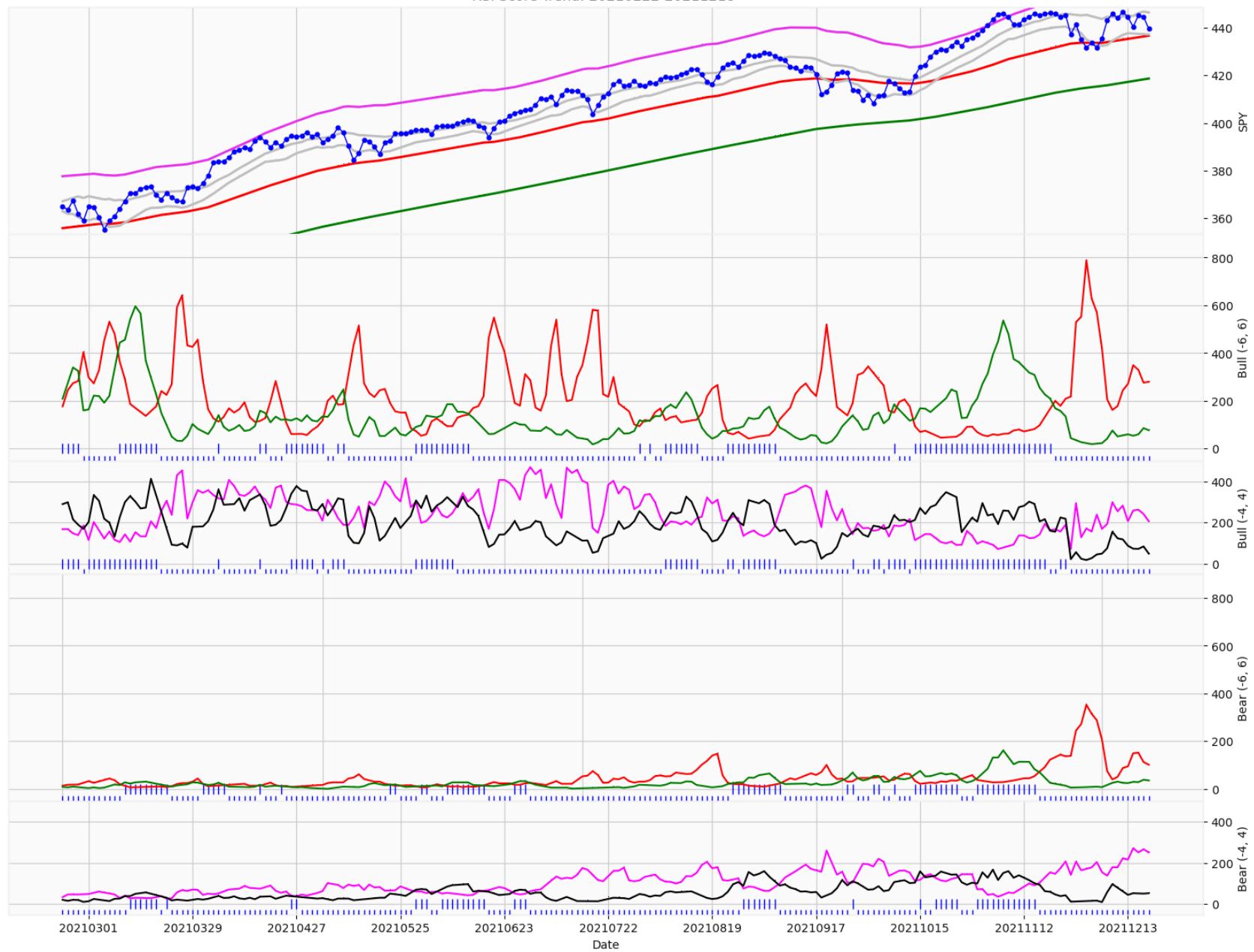


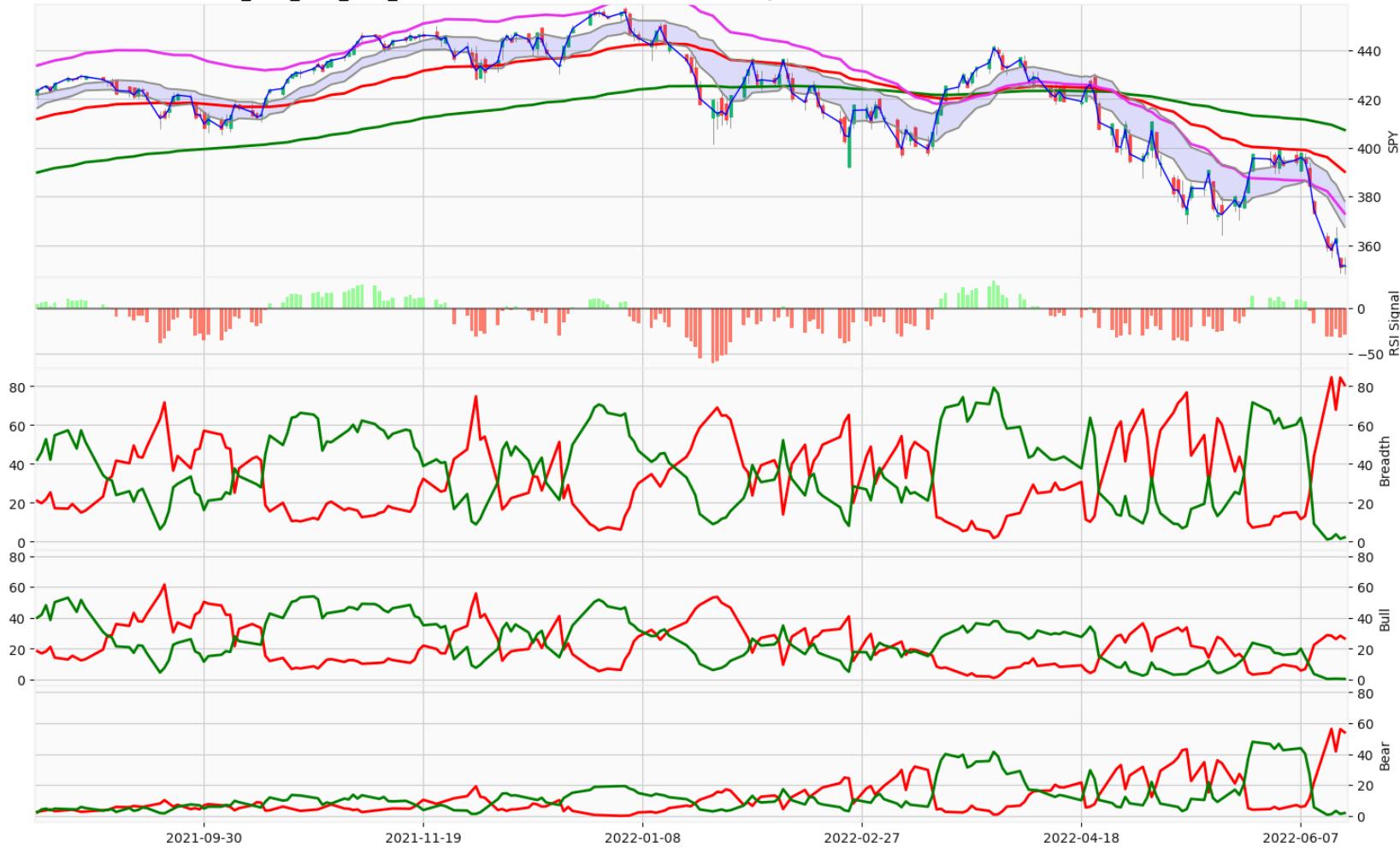
**SPY [2021-12-17] V:142\_157\_189\_000\_000 L:437.05 H:443.43 C:438.77 Wp:439.51 (-1.1%) -5**

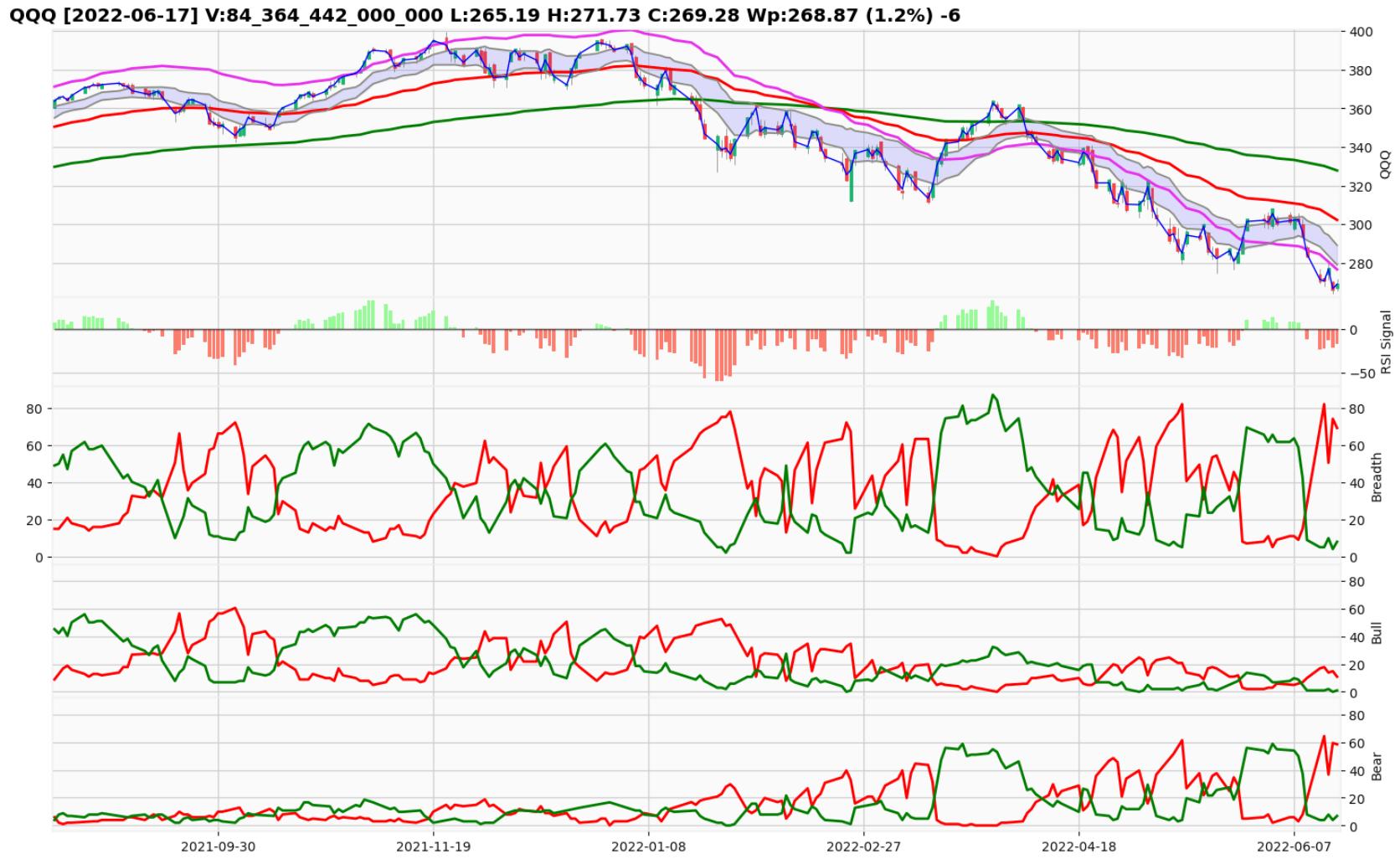


**IWM [2021-12-17] V:63\_731\_731\_668\_587 L:208.27 H:215.24 C:213.06 Wp:212.41 (0.9%) -6**

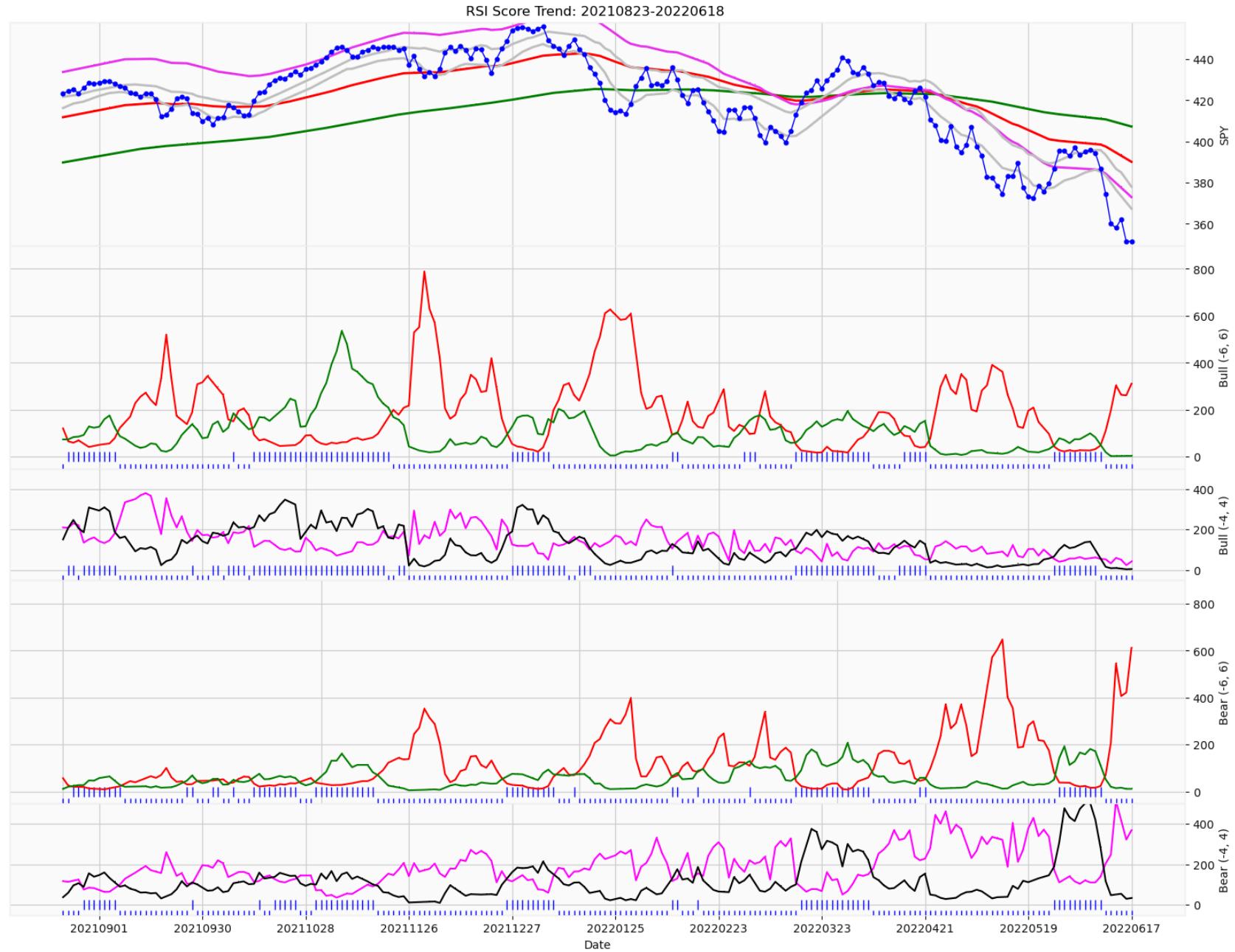
RSI Score Trend: 20210222-20211218



**SPY [2022-06-17] V:115\_593\_664\_000\_000 L:348.13 H:355.07 C:351.68 Wp:351.64 (0.2%) -6**



**IWM [2022-06-17] V:40\_535\_630\_584\_541 L:162.86 H:166.66 C:164.33 Wp:164.54 (0.8%) -6**

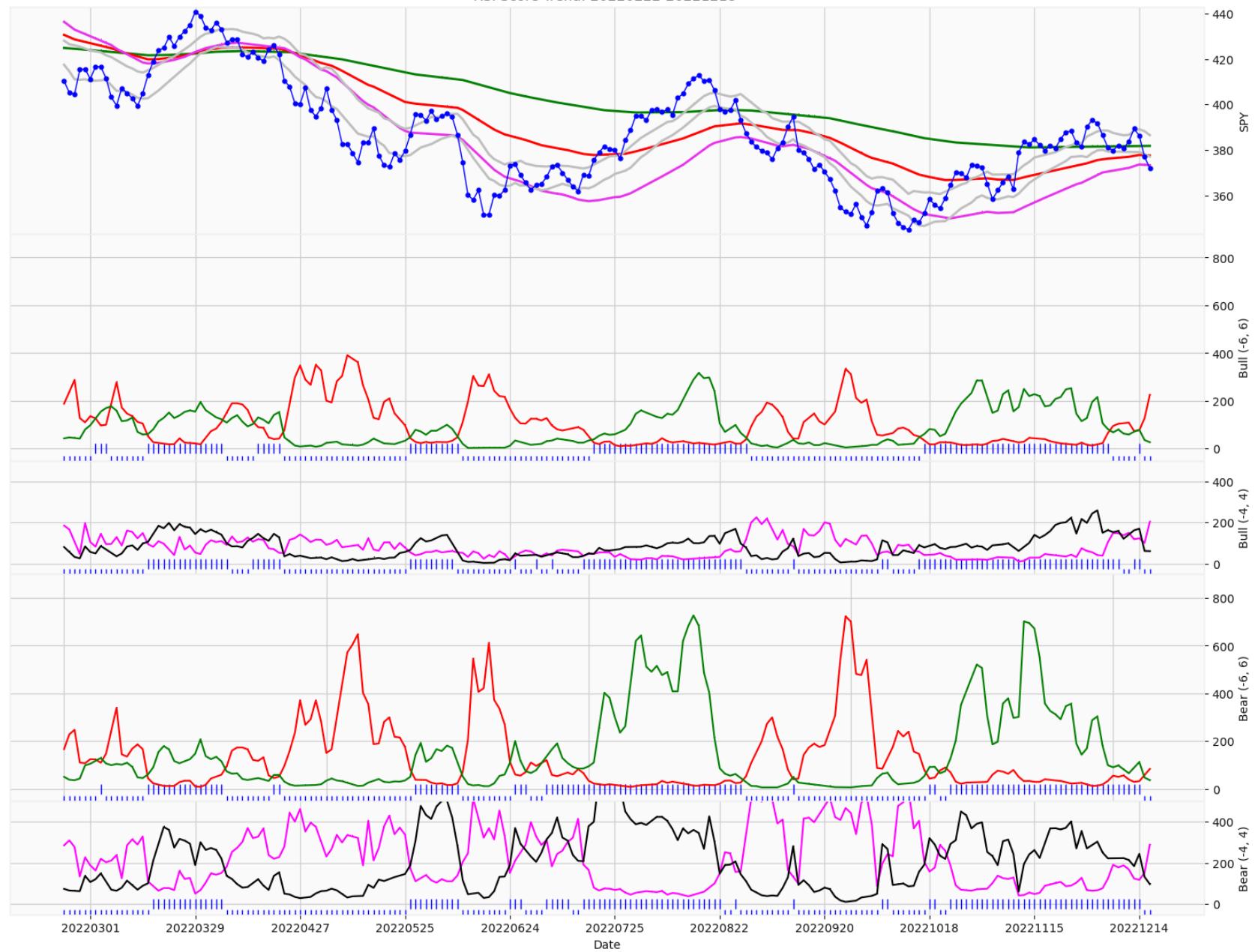


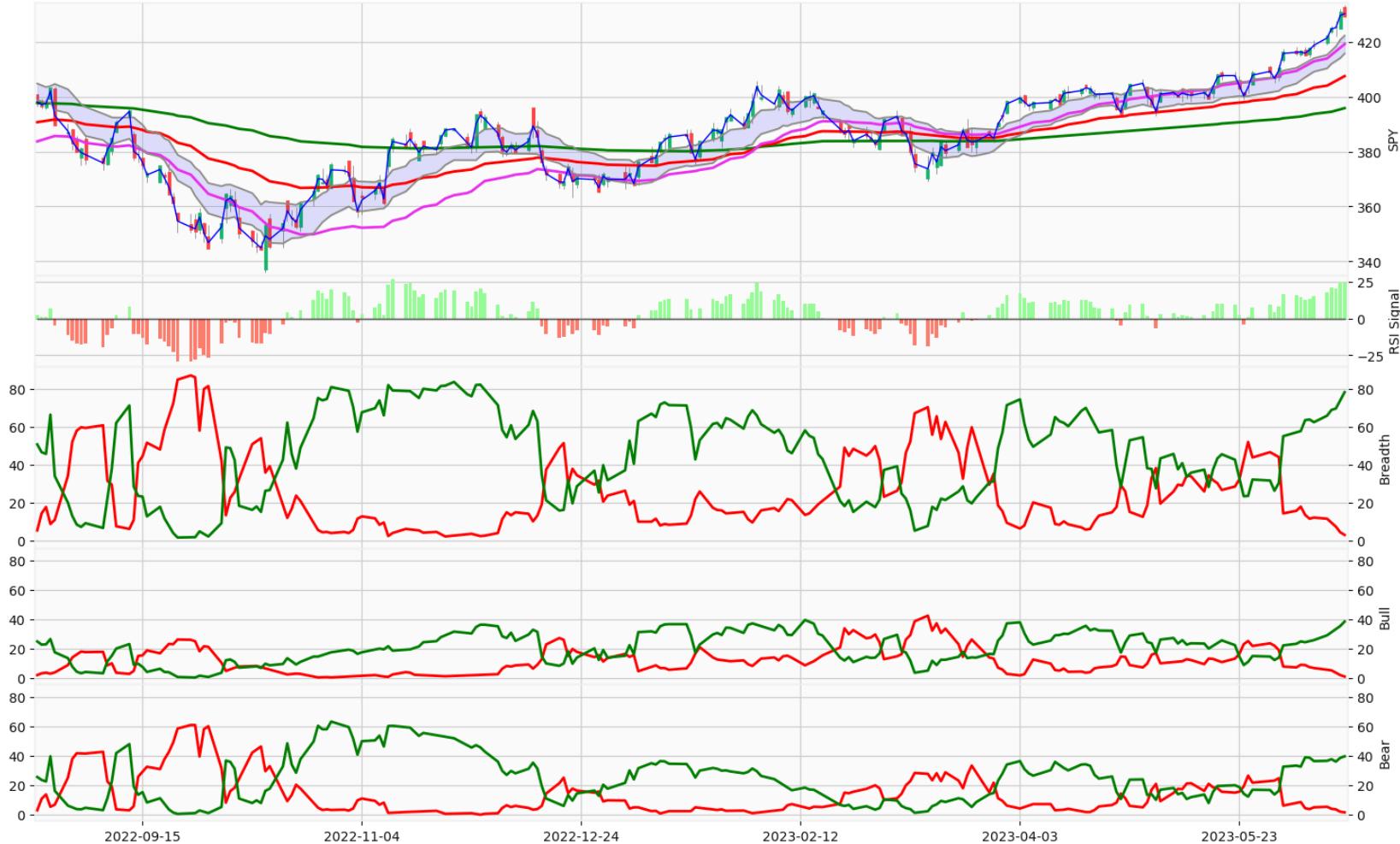
**SPY [2022-12-16] V:123\_611\_103\_000\_000 L:369.47 H:374.84 C:371.63 Wp:371.89 (-1.2%) -3**

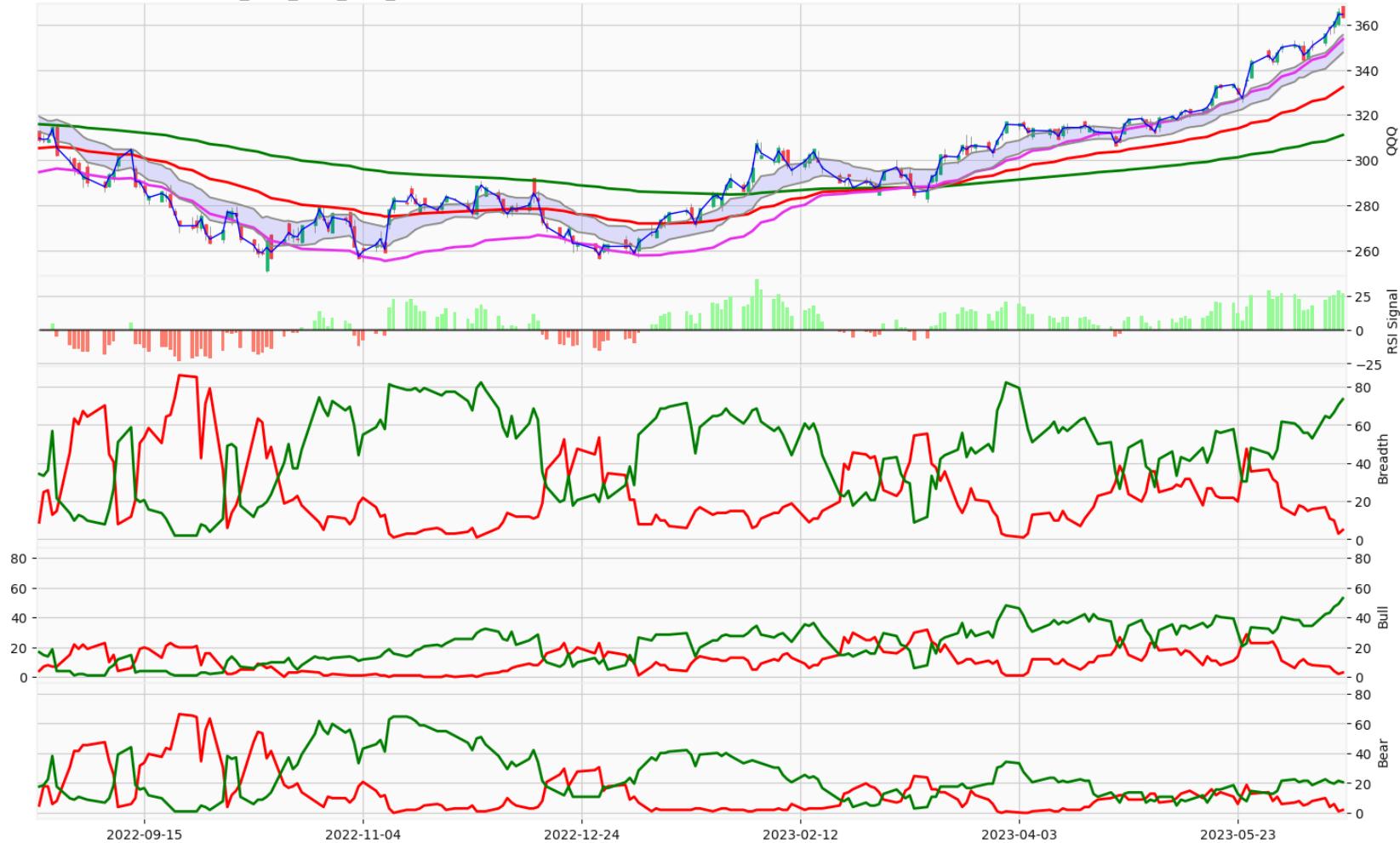
**QQQ [2022-12-16] V:69\_413\_465\_000\_000 L:268.24 H:273.32 C:269.85 Wp:270.31 (-1.0%) -3**

**IWM [2022-12-16] V:38\_502\_417\_000\_000 L:172.67 H:175.11 C:174.37 Wp:174.13 (-0.7%) -4**

RSI Score Trend: 20220222-20221218

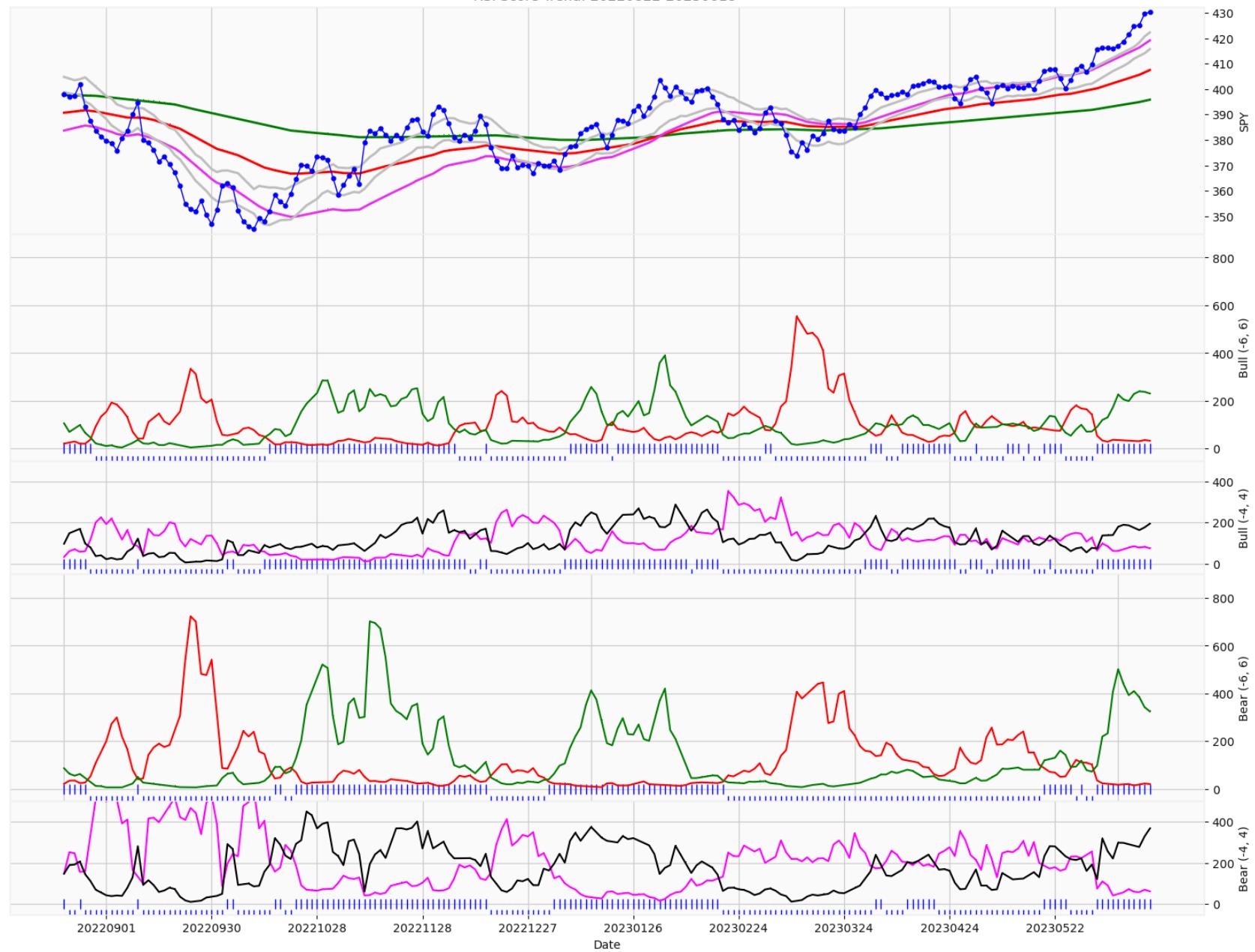


**SPY [2023-06-16] V:116\_858\_871\_000\_000 L:428.86 H:433.38 C:429.33 Wp:430.23 (-0.3%) 6**

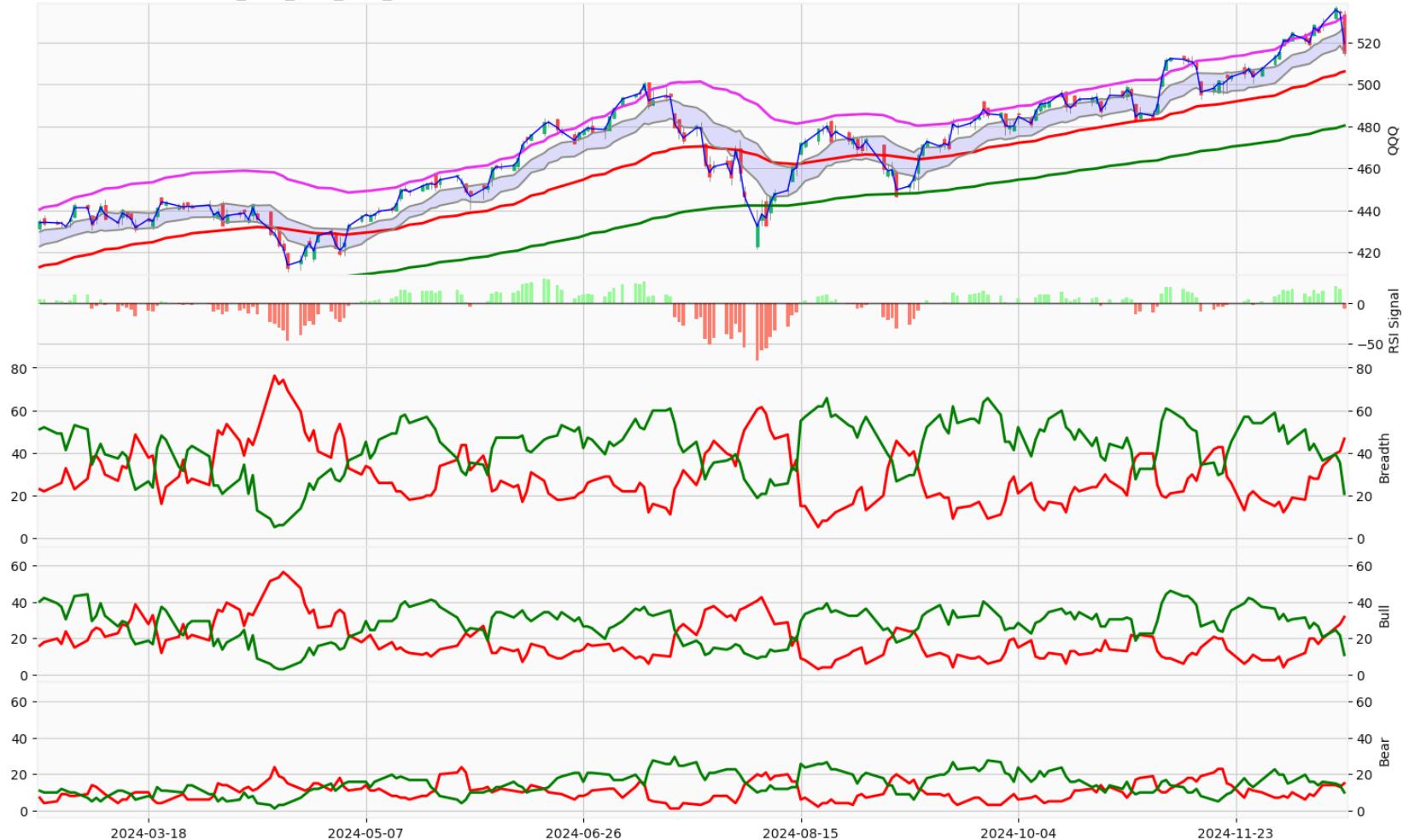
**QQQ [2023-06-16] V:81\_927\_487\_000\_000 L:363.01 H:368.32 C:363.46 Wp:364.56 (-0.6%) 6**

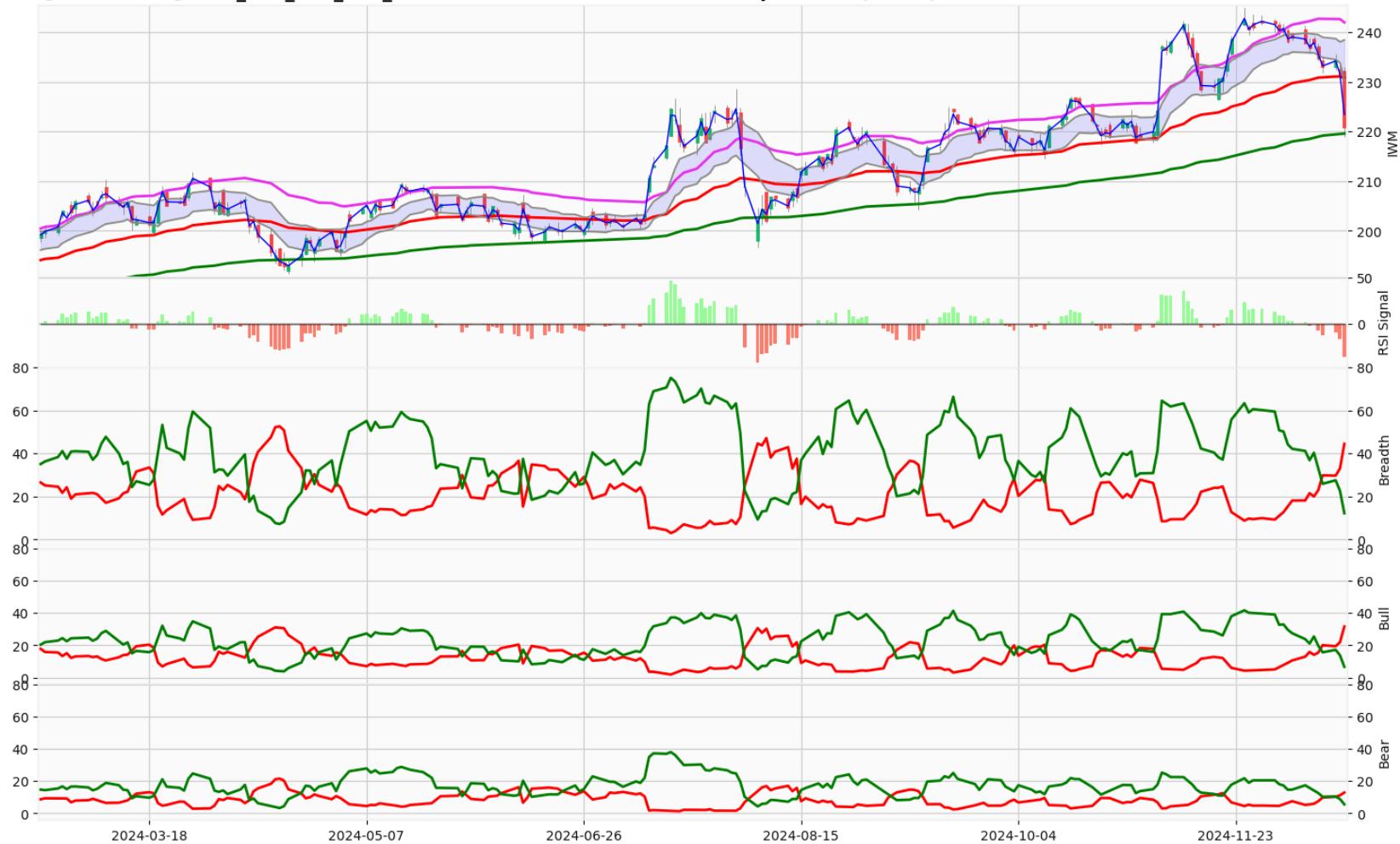
**IWM [2023-06-16] V:50\_684\_496\_000\_000 L:185.09 H:188.55 C:185.94 Wp:186.38 (-0.8%) 2**

RSI Score Trend: 20220822-20230618

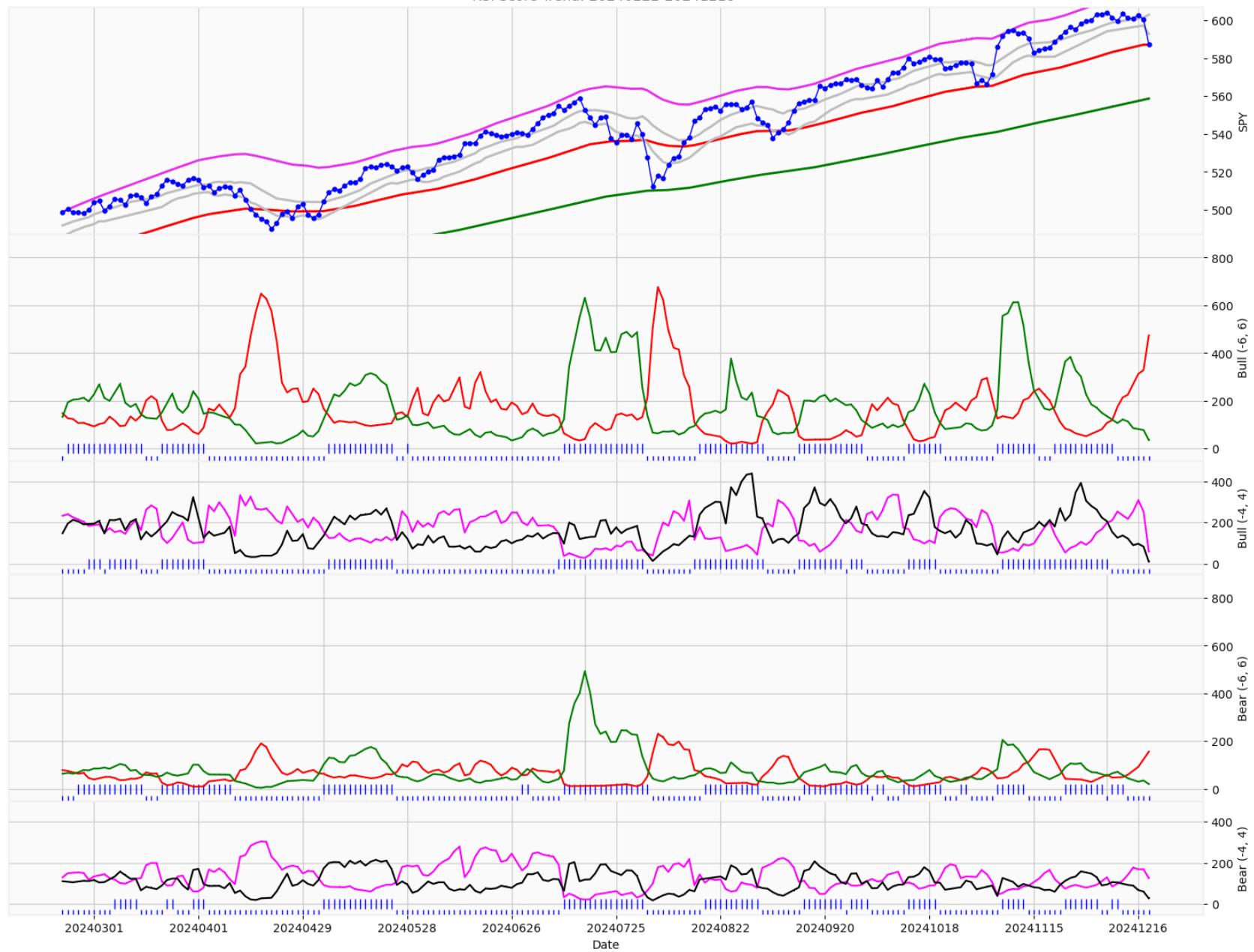


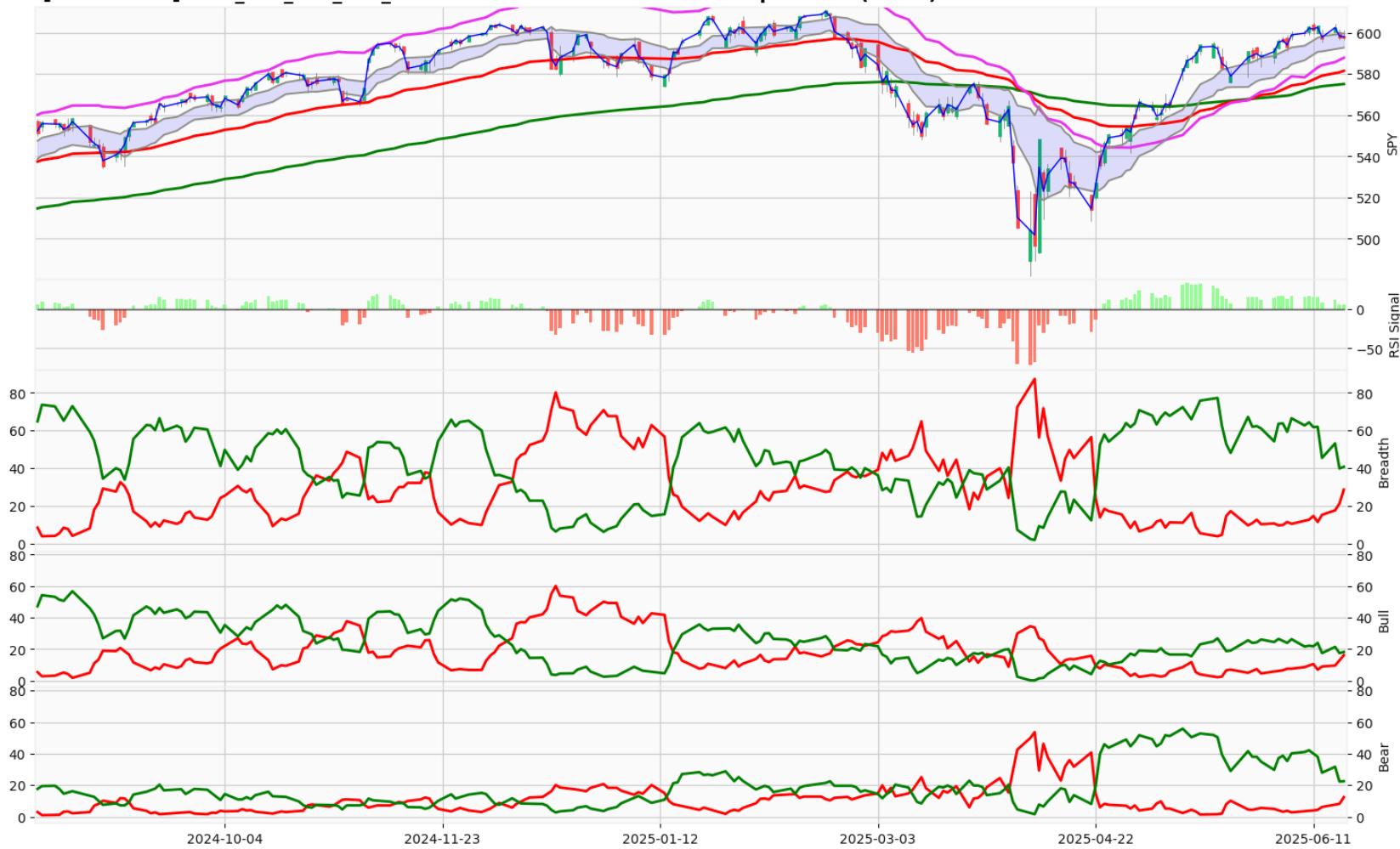
**SPY [2024-12-18] V:108\_939\_612\_000\_000 L:582.17 H:602.56 C:582.56 Wp:587.46 (-3.0%) -5**

**QQQ [2024-12-18] V:54\_873\_004\_000 L:513.42 H:535.22 C:514.87 Wp:519.59 (-3.6%) -3**

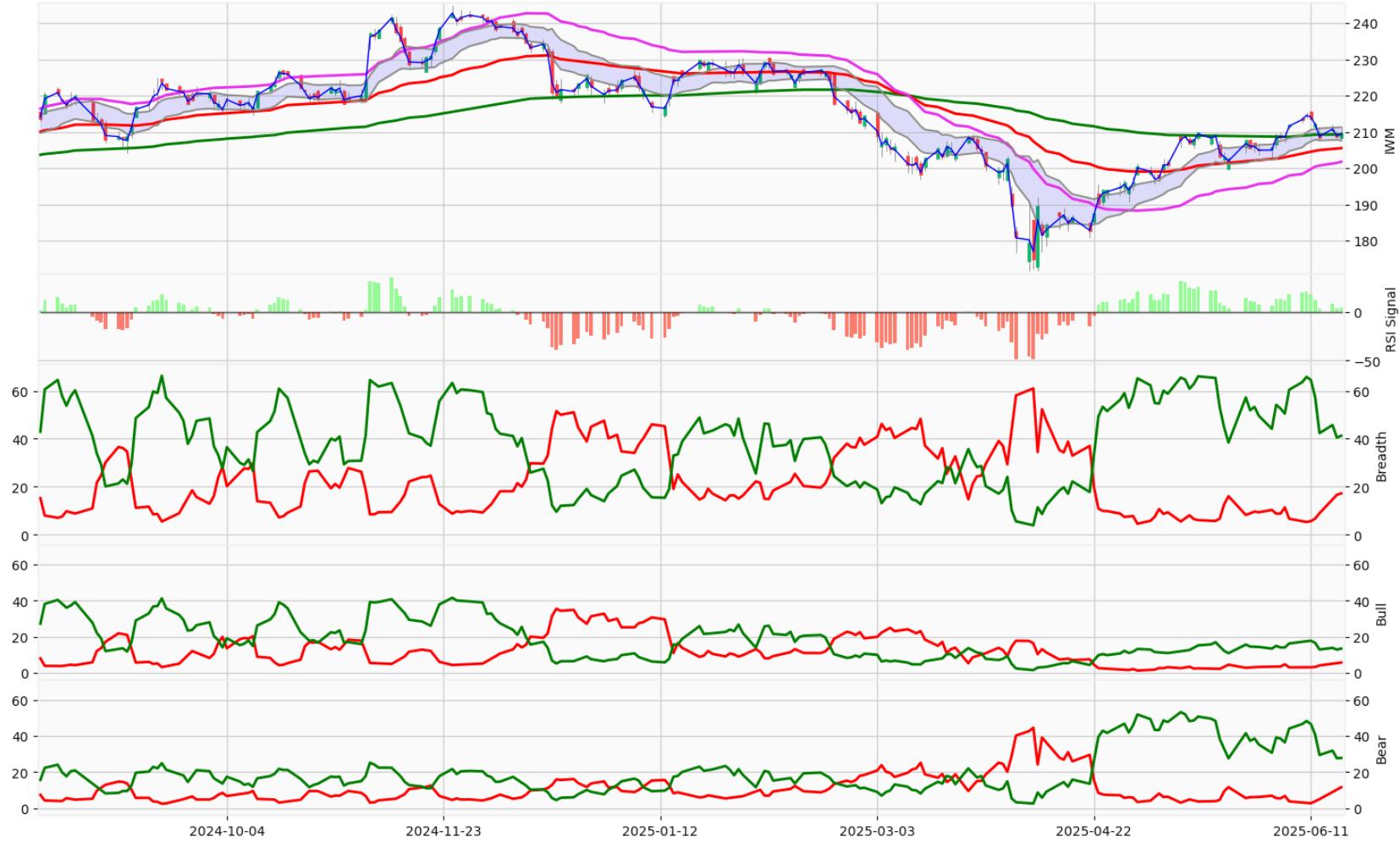
**IWM [2024-12-18] V:52\_267\_523\_000\_000 L:218.92 H:233.08 C:220.84 Wp:223.42 (-4.4%) -5**

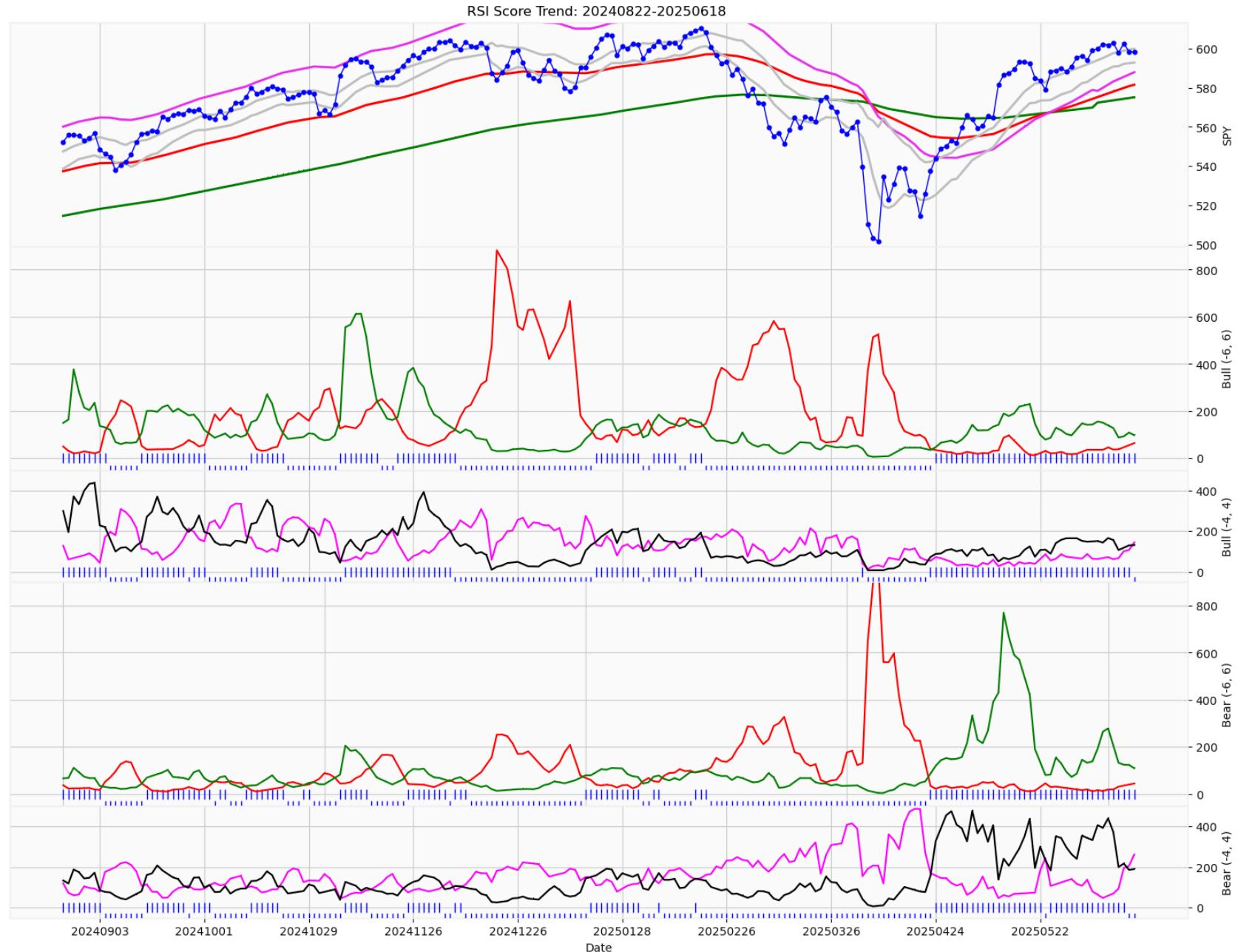
RSI Score Trend: 20240222-20241218



**SPY [2025-06-18] V:75\_940\_686\_000\_000 L:596.48 H:601.22 C:597.44 Wp:598.14 (-0.0%) 4**



**IWM [2025-06-18] V:42\_619\_191\_000\_000 L:207.78 H:211.38 C:209.65 Wp:209.62 (0.5%) 0**



```
In [31]: print(errors)
```

```
[]
```

```
In [32]: all_images
```

```
Out[32]: ['images/20241218/Trend/SPY-300.png',
 'images/20241218/Trend/QQQ-300.png',
 'images/20241218/Trend/IWM-300.png',
 'images/20241218/Trend/RSI_Score_Trend-300-v4.png',
 'images/20250618/Trend/SPY-300.png',
 'images/20250618/Trend/QQQ-300.png',
 'images/20250618/Trend/IWM-300.png',
 'images/20250618/Trend/RSI_Score_Trend-300-v4.png']
```

```
In [33]: len(all_images), all_images[:4], all_images[-4:]
```

```
Out[33]: (8,
 ['images/20241218/Trend/SPY-300.png',
 'images/20241218/Trend/QQQ-300.png',
 'images/20241218/Trend/IWM-300.png',
 'images/20241218/Trend/RSI_Score_Trend-300-v4.png'],
 ['images/20250618/Trend/SPY-300.png',
 'images/20250618/Trend/QQQ-300.png',
 'images/20250618/Trend/IWM-300.png',
 'images/20250618/Trend/RSI_Score_Trend-300-v4.png'])
```

## 20 years of chart history

```
In [23]: !cd
```

```
C:\Users\p2p21\projects\wgong\watchtf-dev-2023-11-11\stooq
```

## 1.2 copy files

```
In [24]: target_file_path = Path("./research/RSI-Trend/BackTest-20250619/test-2")
```

In [25]:

```
def mk_path(f):
    dt, fname = f.split("/")[1], f.split("/")[-1]
    return f'{fname.split(".")[0]}-{dt}.png'
```

In [27]:

```
err_path = []
for source_file in all_images:
    if not Path(source_file).exists():
        err_path.append(source_file)
        continue
    tgt_file = mk_path(source_file)
    shutil.copy(Path(source_file), target_file_path / tgt_file)
```

In [28]:

```
err_path
```

Out[28]:

```
['images/20050618/Trend/SPY-300.png',
 'images/20050618/Trend/QQQ-300.png',
 'images/20050618/Trend/IWM-300.png']
```

In [ ]: