

МОСКОВСКИЙ ГОСУДАРСТВЕННЫЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ
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ОТЧЕТ

Лабораторная работа № 3
по дисциплине «Методы машинного обучения»

Тема: «Обработка признаков, часть 2»

ИСПОЛНИТЕЛЬ:

группа ИУ5-25

Алексеев А С
ФИО

подпись

"__" _____ 2024 г.

ПРЕПОДАВАТЕЛЬ:

Гапанюк Ю Е
ФИО

подпись

"__" _____ 2024 г.

Москва - 2024

Задание

1. Выбрать один или несколько наборов данных (датасетов) для решения следующих задач. Каждая задача может быть решена на отдельном датасете, или несколько задач могут быть решены на одном датасете. Просьба не использовать датасет, на котором данная задача решалась в лекции.
2. Для выбранного датасета (датасетов) на основе материалов лекций решить следующие задачи:
 - i. масштабирование признаков (не менее чем тремя способами);
 - ii. обработку выбросов для числовых признаков (по одному способу для удаления выбросов и для замены выбросов);
 - iii. обработку по крайней мере одного нестандартного признака (который не является числовым или категориальным);
 - iv. отбор признаков:
 - один метод из группы методов фильтрации (filter methods);
 - один метод из группы методов обертывания (wrapper methods);
 - один метод из группы методов вложений (embedded methods).

Импорт библиотек

```
In [1]:import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.preprocessing import MinMaxScaler
from sklearn.preprocessing import RobustScaler
from sklearn.preprocessing import MaxAbsScaler
import scipy.stats as stats
from sklearn.svm import SVR
from sklearn.linear_model import LinearRegression
from sklearn.neighbors import KNeighborsRegressor
from sklearn.tree import DecisionTreeRegressor
from sklearn.ensemble import RandomForestRegressor
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.metrics import mean_squared_error
from IPython.display import Image
from sklearn.svm import LinearSVC
from sklearn.feature_selection import SelectFromModel
from sklearn.linear_model import Lasso
from sklearn.linear_model import LogisticRegression
from sklearn.neighbors import KNeighborsClassifier
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import RandomForestClassifier
from sklearn.ensemble import GradientBoostingClassifier
from sklearn.feature_selection import VarianceThreshold
from sklearn.feature_selection import mutual_info_classif, mutual_info_regression
from sklearn.feature_selection import SelectKBest, SelectPercentile
%matplotlib inline
sns.set(style="ticks")
```

Загрузка датасета

```
In [2]:data = pd.read_csv("winequalityN.csv")
data
```

Out[2]:

	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quality
0	white	7.0	0.270	0.36	20.7	0.045	45.0	170.0	1.00100	3.00	0.45	8.8	6
1	white	6.3	0.300	0.34	1.6	0.049	14.0	132.0	0.99400	3.30	0.49	9.5	6
2	white	8.1	0.280	0.40	6.9	0.050	30.0	97.0	0.99510	3.26	0.44	10.1	6
3	white	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
4	white	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
...
6492	red	6.2	0.600	0.08	2.0	0.090	32.0	44.0	0.99490	3.45	0.58	10.5	5
6493	red	5.9	0.550	0.10	2.2	0.062	39.0	51.0	0.99512	3.52	NaN	11.2	6
6494	red	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
6495	red	5.9	0.645	0.12	2.0	0.075	32.0	44.0	0.99547	3.57	0.71	10.2	5
6496	red	6.0	0.310	0.47	3.6	0.067	18.0	42.0	0.99549	3.39	0.66	11.0	6

6497 rows × 13 columns

```
In [3]:Typelist = data['type'].unique().tolist()
for i in data['type']:
    for j in Typelist:
        if i == j:
            k = data[data['type']==i].index[0]
            data['type'][k] = Typelist.index(j)
data
```

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

Out[3]:

	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quality
0	0	7.0	0.270	0.36	20.7	0.045	45.0	170.0	1.00100	3.00	0.45	8.8	6
1	0	6.3	0.300	0.34	1.6	0.049	14.0	132.0	0.99400	3.30	0.49	9.5	6
2	0	8.1	0.280	0.40	6.9	0.050	30.0	97.0	0.99510	3.26	0.44	10.1	6
3	0	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
4	0	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
...
6492	1	6.2	0.600	0.08	2.0	0.090	32.0	44.0	0.99490	3.45	0.58	10.5	5
6493	1	5.9	0.550	0.10	2.2	0.062	39.0	51.0	0.99512	3.52	NaN	11.2	6
6494	1	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
6495	1	5.9	0.645	0.12	2.0	0.075	32.0	44.0	0.99547	3.57	0.71	10.2	5
6496	1	6.0	0.310	0.47	3.6	0.067	18.0	42.0	0.99549	3.39	0.66	11.0	6

6497 rows × 13 columns

In [4]:# Колонки с пропусками

```
hcols_with_na = [c for c in data.columns if data[c].isnull().sum() > 0]
```

```
hcols_with_na
```

```
# Количество пропусков
```

```
[(c, data[c].isnull().sum()) for c in hcols_with_na]
```

Out[4]:[('fixed acidity', 10),

('volatile acidity', 8),

('citric acid', 3),

('residual sugar', 2),

('chlorides', 2),

('pH', 9),

('sulphates', 4)]

In [5]:# Доля (процент) пропусков

```
[(c, data[c].isnull().mean()) for c in hcols_with_na]
```

Out[5]:[('fixed acidity', 0.0015391719255040787),

('volatile acidity', 0.001231337540403263),

('citric acid', 0.00046175157765122367),

('residual sugar', 0.00030783438510081576),

('chlorides', 0.00030783438510081576),

('pH', 0.0013852547329536709),

('sulphates', 0.0006156687702016315)]

In [6]:data = data.dropna(axis=0, how='any')

```
data
```

Out[6]:

	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quality
0	0	7.0	0.270	0.36	20.7	0.045	45.0	170.0	1.00100	3.00	0.45	8.8	6
1	0	6.3	0.300	0.34	1.6	0.049	14.0	132.0	0.99400	3.30	0.49	9.5	6
2	0	8.1	0.280	0.40	6.9	0.050	30.0	97.0	0.99510	3.26	0.44	10.1	6
3	0	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
4	0	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
...
6491	1	6.8	0.620	0.08	1.9	0.068	28.0	38.0	0.99651	3.42	0.82	9.5	6
6492	1	6.2	0.600	0.08	2.0	0.090	32.0	44.0	0.99490	3.45	0.58	10.5	5
6494	1	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
6495	1	5.9	0.645	0.12	2.0	0.075	32.0	44.0	0.99547	3.57	0.71	10.2	5
6496	1	6.0	0.310	0.47	3.6	0.067	18.0	42.0	0.99549	3.39	0.66	11.0	6

6463 rows × 13 columns

```
In [7]:data.reset_index(inplace=True)
# Колонки с пропусками
hcols_with_na = [c for c in data.columns if data[c].isnull().sum() > 0]
hcols_with_na
# Количество пропусков
[(c, data[c].isnull().sum()) for c in hcols_with_na]
# Доля (процент) пропусков
[(c, data[c].isnull().mean()) for c in hcols_with_na]
```

Out[7]:[]
In [8]:data

Out[8]:

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates	alcohol	quality
0	0	0	7.0	0.270	0.36	20.7	0.045	45.0	170.0	1.00100	3.00	0.45	8.8	6
1	1	0	6.3	0.300	0.34	1.6	0.049	14.0	132.0	0.99400	3.30	0.49	9.5	6
2	2	0	8.1	0.280	0.40	6.9	0.050	30.0	97.0	0.99510	3.26	0.44	10.1	6
3	3	0	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
4	4	0	7.2	0.230	0.32	8.5	0.058	47.0	186.0	0.99560	3.19	0.40	9.9	6
...
6458	6491	1	6.8	0.620	0.08	1.9	0.068	28.0	38.0	0.99651	3.42	0.82	9.5	6
6459	6492	1	6.2	0.600	0.08	2.0	0.090	32.0	44.0	0.99490	3.45	0.58	10.5	5
6460	6494	1	6.3	0.510	0.13	2.3	0.076	29.0	40.0	0.99574	3.42	0.75	11.0	6
6461	6495	1	5.9	0.645	0.12	2.0	0.075	32.0	44.0	0.99547	3.57	0.71	10.2	5
6462	6496	1	6.0	0.310	0.47	3.6	0.067	18.0	42.0	0.99549	3.39	0.66	11.0	6

6463 rows × 14 columns

Масштабирование признаков

```
In [9]:# Нужно ли масштабирование
data.describe()
```

Out[9]:

	index	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	
count	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000
mean	3255.125793	7.217755	0.339589	0.318758	5.443958	0.056056	30.516865	115.694492	0.994698	
std	1869.906597	1.297913	0.164639	0.145252	4.756852	0.035076	17.758815	56.526736	0.003001	
min	0.000000	3.800000	0.080000	0.000000	0.600000	0.009000	1.000000	6.000000	0.987110	
25%	1639.500000	6.400000	0.230000	0.250000	1.800000	0.038000	17.000000	77.000000	0.992330	
50%	3257.000000	7.000000	0.290000	0.310000	3.000000	0.047000	29.000000	118.000000	0.994890	
75%	4872.500000	7.700000	0.400000	0.390000	8.100000	0.065000	41.000000	156.000000	0.997000	
max	6496.000000	15.900000	1.580000	1.660000	65.800000	0.611000	289.000000	440.000000	1.038980	

```
In [10]:# DataFrame не содержащий целевой признак
X_ALL = data.drop('quality', axis=1)

In [11]:# Функция для восстановления датафрейма
# на основе масштабированных данных
def arr_to_df(arr_scaled):
    res = pd.DataFrame(arr_scaled, columns=X_ALL.columns)
    return res

In [12]:# Разделим выборку на обучающую и тестовую
X_train, X_test, y_train, y_test = train_test_split(X_ALL, data['quality'],
                                                    test_size=0.2,
                                                    random_state=1)

# Преобразуем массивы в DataFrame
X_train_df = arr_to_df(X_train)
X_test_df = arr_to_df(X_test)

X_train_df.shape, X_test_df.shape
```

Out[12]:((5170, 13), (1293, 13))

Масштабирование данных на основе Z-оценки

```
In [13]:# Обучаем StandardScaler на всей выборке и масштабируем
cs11 = StandardScaler()
data_cs11_scaled_temp = cs11.fit_transform(X_ALL)
# формируем DataFrame на основе массива
data_cs11_scaled = arr_to_df(data_cs11_scaled_temp)
data_cs11_scaled
```

Out[13]:

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates
0	1.740931	0.571931	0.167786	0.422710	0.283959	3.207420	0.315228	0.815609	0.960779	2.099926	1.359160	-0.544987
1	1.740396	0.571931	0.707155	0.240479	0.146257	0.808151	0.201180	0.930138	0.288479	0.232465	0.508399	-0.276354
2	1.739861	0.571931	0.679794	0.361966	0.559363	0.306117	0.172668	0.029107	0.330745	0.134053	0.259391	-0.612146
3	1.739326	0.571931	0.013681	0.665684	0.008554	0.642500	0.055427	0.928238	1.243853	0.300653	0.176373	-0.880779
4	1.738791	0.571931	0.013681	0.665684	0.008554	0.642500	0.055427	0.928238	1.243853	0.300653	0.176373	-0.880779
...
6458	1.730634	1.748464	0.321892	1.703315	1.643871	0.745079	0.340545	0.141736	1.374580	0.603864	1.255423	1.939871
6459	1.731169	1.748464	0.784208	1.581828	1.643871	0.724055	0.967807	0.083522	1.268427	0.067414	1.442179	0.328071
6460	1.732239	1.748464	0.707155	1.035136	1.299616	0.660984	0.568640	0.085421	1.339195	0.347301	1.255423	1.469762
6461	1.732774	1.748464	1.015366	1.855174	1.368467	0.724055	0.540129	0.083522	1.268427	0.257337	2.189203	1.201129
6462	1.733308	1.748464	0.938313	0.179735	1.041320	0.387673	0.312034	0.704880	1.303811	0.264001	1.068667	0.865337

6463 rows x 13 columns

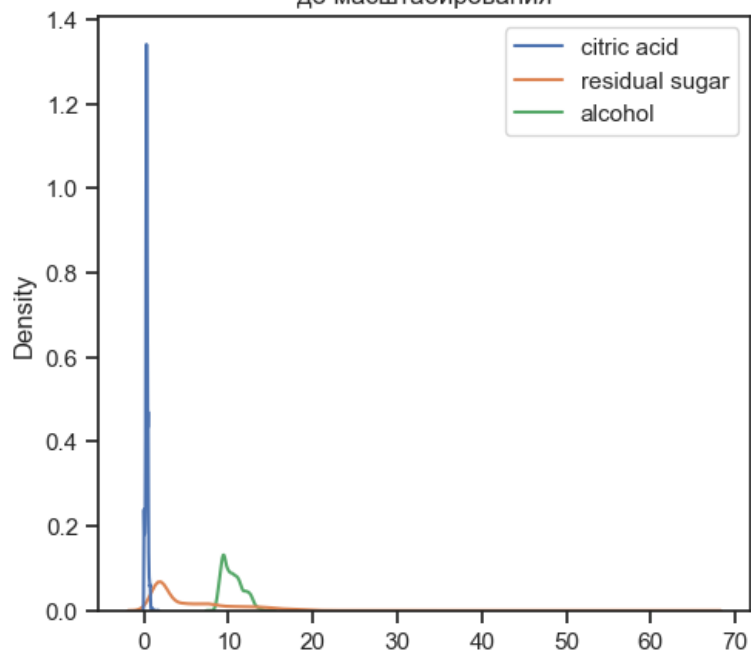
In [14]:data_cs11_scaled.describe()

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density	pH	sulphates
count	6.463000e+03	6.463000e+03	6.463000e+03	6.463000e+03	6.463000e+03	6.463000e+03	6.463000e+03	6.463000e+03	6.463000e+03	6.463		
mean	1.407233e-16	-3.518083e-17	-1.231329e-16	-2.110850e-16	-8.795206e-17	1.934945e-16	-7.036165e-17	-7.036165e-17	1.058			
std	1.000077e+00	1.000077e+00	1.000077e+00	1.000077e+00	1.000077e+00	1.000077e+00	1.000077e+00	1.000077e+00	1.000			
min	1.740931e+00	-5.719307e-01	2.633473e+00	1.576837e+00	2.194680e+00	1.018391e+00	1.341655e+00	1.662225e+00	1.940			
25%	-8.640810e-01	-5.719307e-01	-6.301024e-01	-6.656838e-01	-4.734030e-01	-7.661033e-01	-5.148107e-01	-7.611944e-01	-6.8			
50%	1.002377e-03	-5.719307e-01	-1.677861e-01	-3.012225e-01	-6.029661e-02	-5.138161e-01	-2.582038e-01	-8.542138e-02	4.078			
75%	8.650161e-01	-5.719307e-01	3.715830e-01	3.669567e-01	4.905119e-01	5.584045e-01	2.550099e-01	5.903516e-01	7.130			
max	1.733308e+00	1.748464e+00	6.689906e+00	7.534697e+00	9.234597e+00	1.268921e+01	1.582249e+01	1.455633e+01	5.737			

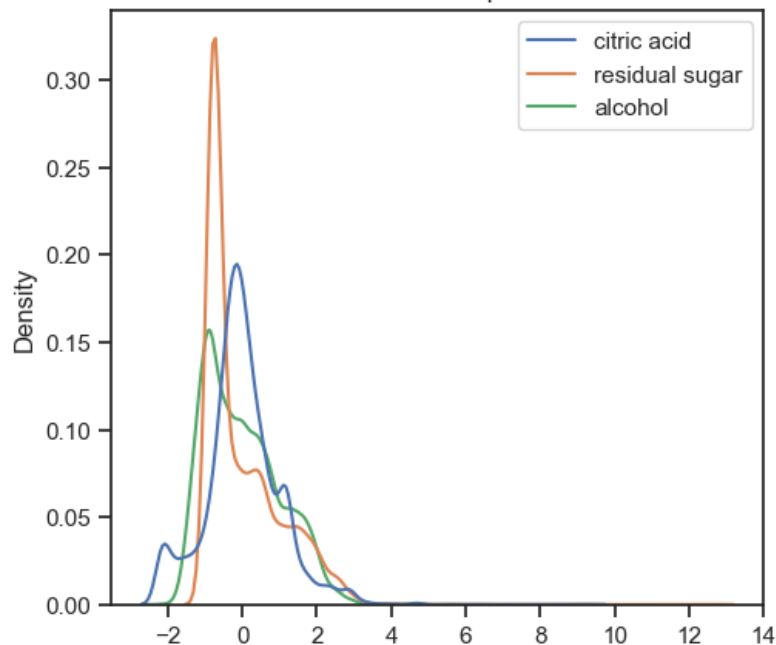
```
In [15]:# Построение плотности распределения
def draw_kde(col_list, df1, df2, label1, label2):
    fig, (ax1, ax2) = plt.subplots(
        ncols=2, figsize=(12, 5))
    # первый график
    ax1.set_title(label1)
    sns.kdeplot(data=df1[col_list], ax=ax1)
    # второй график
    ax2.set_title(label2)
    sns.kdeplot(data=df2[col_list], ax=ax2)
    plt.show()
```

In [16]:draw_kde(['citric acid', 'residual sugar', 'alcohol'], data, data_cs11_scaled, 'до масштабирования', 'после масштабирования')

до масштабирования



после масштабирования



```
In [17]:# Обучаем StandardScaler на обучающей выборке
# и масштабируем обучающую и тестовую выборки
cs12 = StandardScaler()
cs12.fit(X_train)
data_cs12_scaled_train_temp = cs12.transform(X_train)
data_cs12_scaled_test_temp = cs12.transform(X_test)
# формируем DataFrame на основе массива
data_cs12_scaled_train = arr_to_df(data_cs12_scaled_train_temp)
data_cs12_scaled_test = arr_to_df(data_cs12_scaled_test_temp)
```

```
In [18]:data_cs12_scaled_train.describe()
```

```
Out[18]:
```

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide
count	5.170000e+03	5.170000e+03	5.170000e+03	5.170000e+03	5.170000e+03	5.170000e+03	5.170000e+03	5.170000e+03	5.170000e+03
mean	-9.757937e-17	4.260508e-17	4.641892e-16	-3.037330e-16	4.473533e-16	9.345630e-17	-8.108708e-17	1.003281e-16	3.2281e-16
std	1.000097e+00	1.000097e+00	1.000097e+00	1.000097e+00	1.000097e+00	1.000097e+00	1.000097e+00	1.000097e+00	1.000097e+00
min	-1.729700e+00	-5.709475e-01	2.622586e+00	1.577543e+00	2.204527e+00	1.016795e+00	1.322909e+00	1.667163e+00	1.9521e+00
25%	-8.711414e-01	-5.709475e-01	-6.234025e-01	-6.625140e-01	-4.749745e-01	-7.654524e-01	-5.060611e-01	-7.626958e-01	-6.711414e-01
50%	4.990670e-03	-5.709475e-01	-1.620525e-01	-2.965024e-01	-5.988198e-02	-5.141098e-01	-2.525565e-01	-8.434549e-02	3.670670e-03
75%	8.619519e-01	-5.709475e-01	3.761891e-01	3.745188e-01	4.935747e-01	5.540961e-01	2.262853e-01	5.940048e-01	7.116195e-01
max	1.729564e+00	1.751475e+00	6.681305e+00	7.572747e+00	9.279700e+00	1.263948e+01	1.563373e+01	1.461324e+01	5.7551e+00

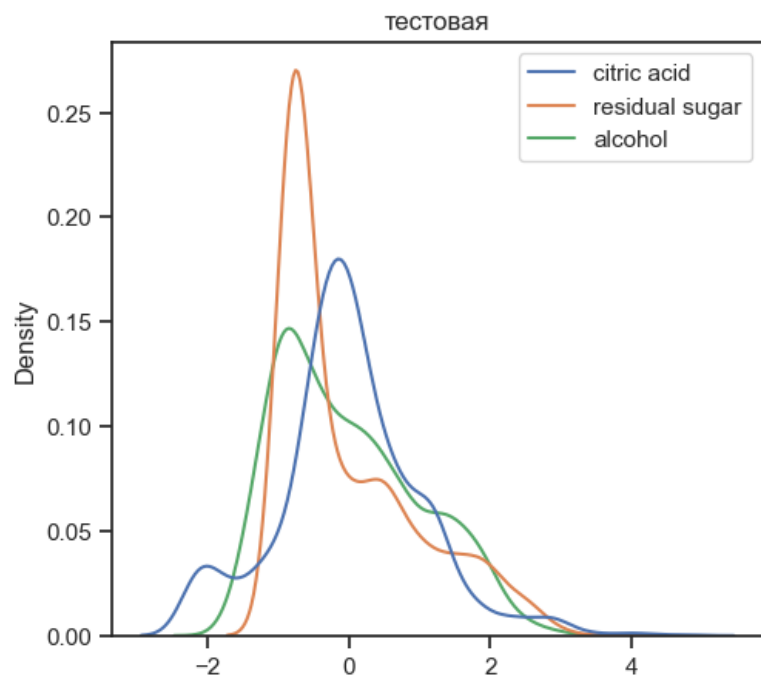
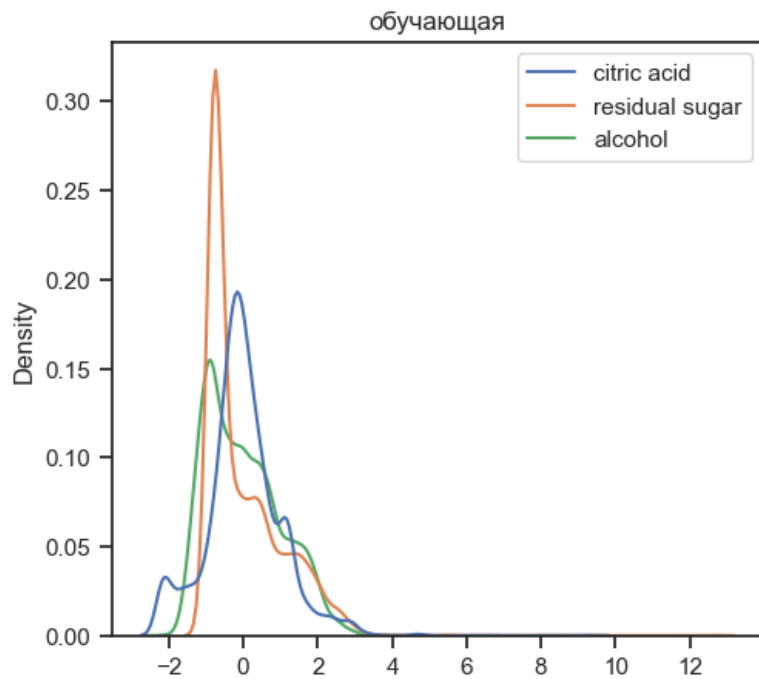
```
In [19]:data_cs12_scaled_test.describe()
```

```
Out[19]:
```

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide
count	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000
mean	0.018626	0.007413	0.026906	0.029997	0.003522	-0.011084	0.012624	0.007006	-0.021096
std	0.978501	1.004727	0.989597	1.021126	1.024198	0.981471	0.938309	1.019295	1.019692
min	-1.727570	-0.570947	-1.930561	-1.577543	-2.204527	-1.016795	-1.182073	-1.610634	-1.952567
25%	-0.794591	-0.570947	-0.623402	-0.662514	-0.474975	-0.765452	-0.506061	-0.762696	-0.709257
50%	0.004192	-0.570947	-0.162053	-0.296502	-0.059882	-0.535055	-0.252557	-0.084345	0.036729
75%	0.872203	-0.570947	0.376189	0.435521	0.562757	0.554096	0.282620	0.594005	0.693907
max	1.721043	1.751475	6.373738	6.047698	4.713682	3.779659	10.310132	6.557834	4.050843

```
In [20]:# распределения для обучающей и тестовой выборки немного отличаются
```


draw_kde(['citric acid', 'residual sugar', 'alcohol'], data_cs12_scaled_train, data_cs12_scaled_test, 'обучающая', 'тестовая')



Масштабирование "Mean Normalisation"

In [21]:**class** MeanNormalisation:

```
def fit(self, param_df):
    self.means = X_train.mean(axis=0)
    maxs = X_train.max(axis=0)
    mins = X_train.min(axis=0)
    self.ranges = maxs - mins

def transform(self, param_df):
    param_df_scaled = (param_df - self.means) / self.ranges
    return param_df_scaled

def fit_transform(self, param_df):
    self.fit(param_df)
    return self.transform(param_df)
```

In [22]:sc21 = MeanNormalisation()
data_cs21_scaled = sc21.fit_transform(X_ALL)
data_cs21_scaled.describe()

Out[22]:

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide
count	6463.00000	6463.000000	6463.000000	6463.00000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000
unique	6463.00000	2.000000	106.000000	187.00000	89.000000	315.000000	214.000000	135.000000	276.000000
top	-0.50002	-0.245841	-0.033947	-0.03907	-0.011238	-0.052984	-0.019878	-0.005181	-0.011364
freq	1.00000	4870.000000	352.000000	285.00000	337.000000	235.000000	203.000000	180.000000	71.000000

In [23]:cs22 = MeanNormalisation()
cs22.fit(X_train)
data_cs22_scaled_train = cs22.transform(X_train)
data_cs22_scaled_test = cs22.transform(X_test)

In [24]:data_cs22_scaled_train.describe()

Out[24]:

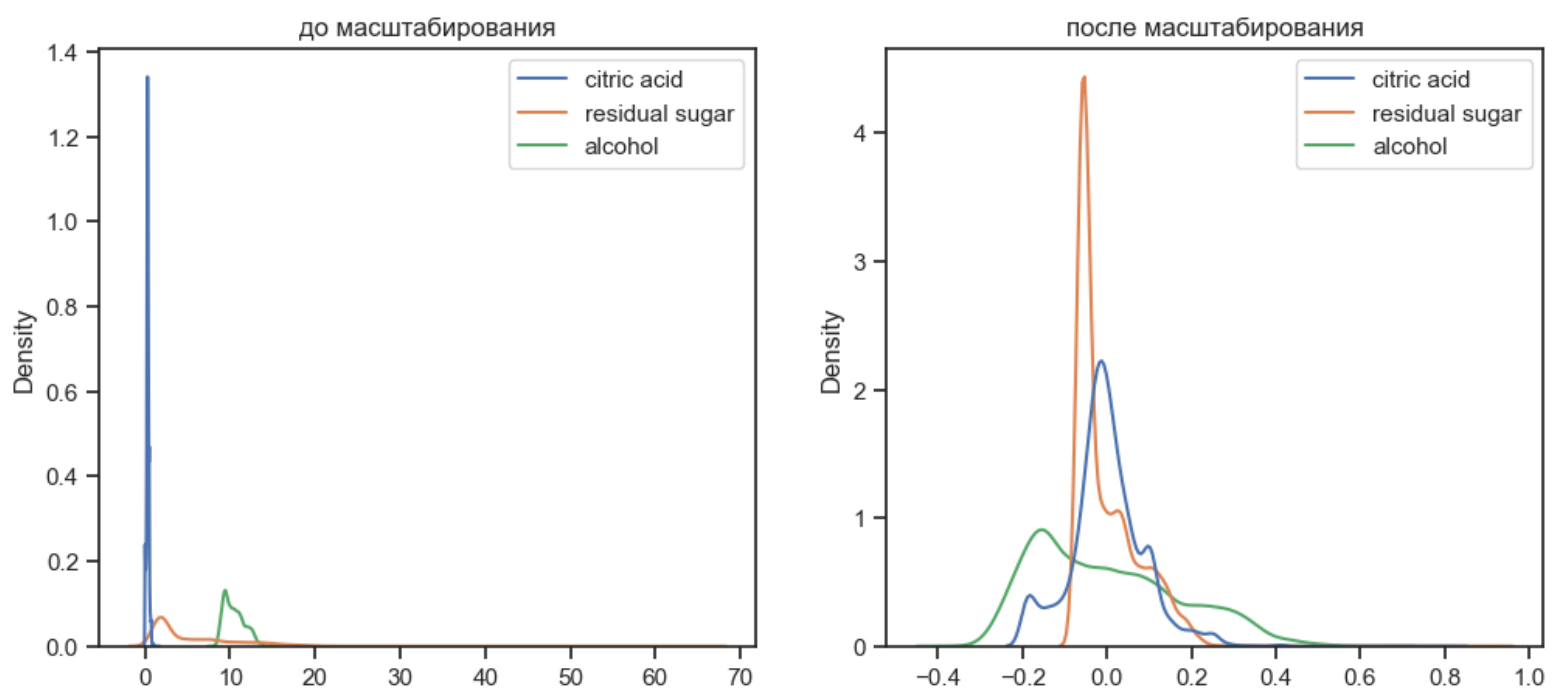
	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide
count	5170.00000	5170.000000	5170.000000	5170.00000	5170.000000	5170.000000	5170.000000	5170.000000	5170.000000
unique	5170.00000	2.000000	105.000000	182.000000	87.000000	301.000000	201.000000	126.000000	269.000000
top	-0.223696	-0.245841	-0.033947	-0.065737	-0.011238	-0.052984	-0.019878	-0.005181	-0.011364
freq	1.00000	3899.000000	293.000000	220.00000	273.000000	190.000000	163.000000	151.000000	55.000000

In [25]:data_cs22_scaled_test.describe()

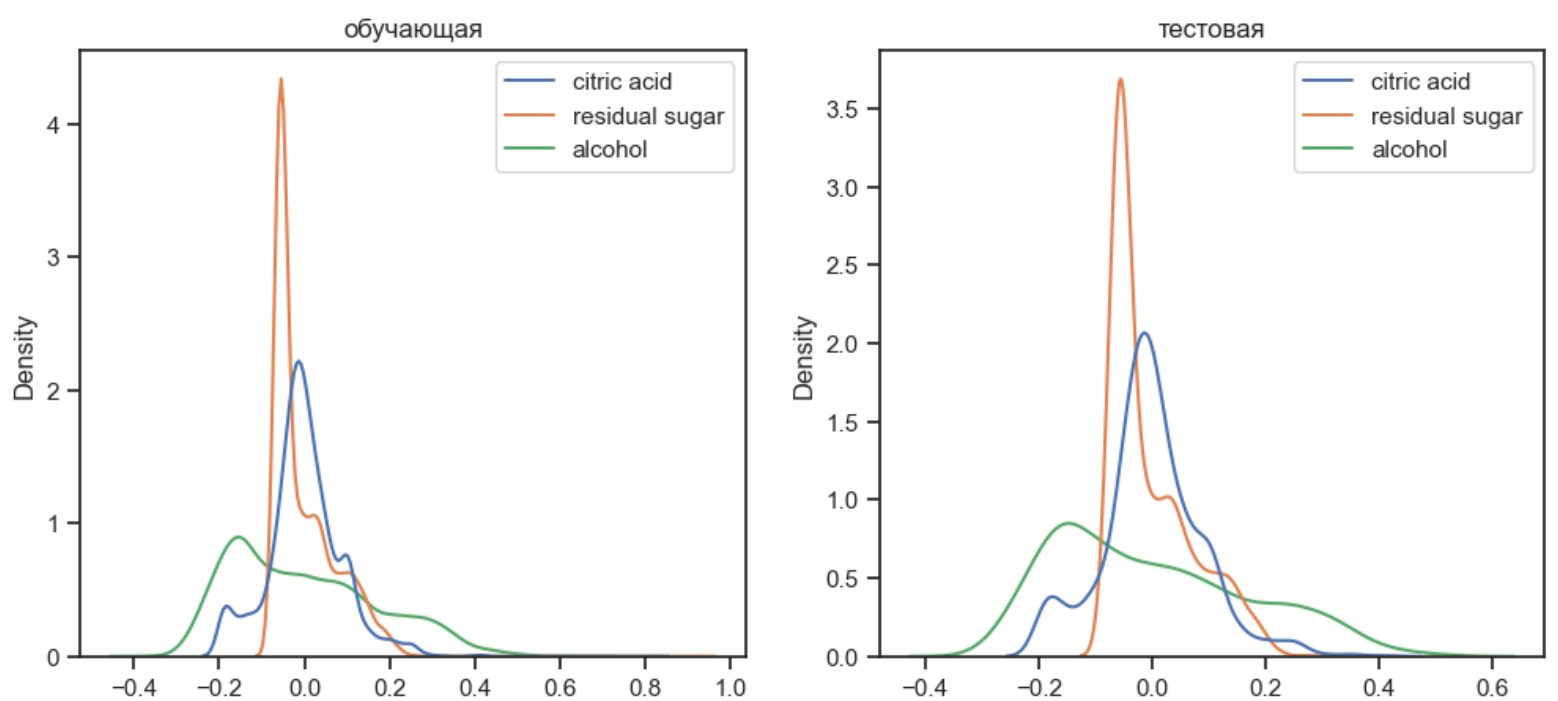
Out[25]:

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	
count	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000	1293.000000
unique	1293.000000	2.000000	80.000000	120.000000	80.000000	218.000000	135.000000	95.000000	240.000000	1293.000000
top	0.076643	-0.245841	-0.050476	-0.03907	0.00081	-0.059119	-0.018217	0.005236	-0.011364	-0.011364
freq	1.000000	971.000000	68.000000	69.000000	66.000000	58.000000	45.000000	37.000000	16.000000	16.000000

```
In [26]: draw_kde(['citric acid', 'residual sugar', 'alcohol'], data, data_cs21_scaled, 'до масштабирования', 'после масштабирования')
```



```
In [27]: draw_kde(['citric acid', 'residual sugar', 'alcohol'], data_cs22_scaled_train, data_cs22_scaled_test, 'обучающая', 'тестовая')
```



```
In [28]: # Обучаем StandardScaler на всей выборке и масштабируем
cs31 = MinMaxScaler()
data_cs31_scaled_temp = cs31.fit_transform(X_ALL)
# формируем DataFrame на основе массива
data_cs31_scaled = arr_to_df(data_cs31_scaled_temp)
data_cs31_scaled.describe()
```

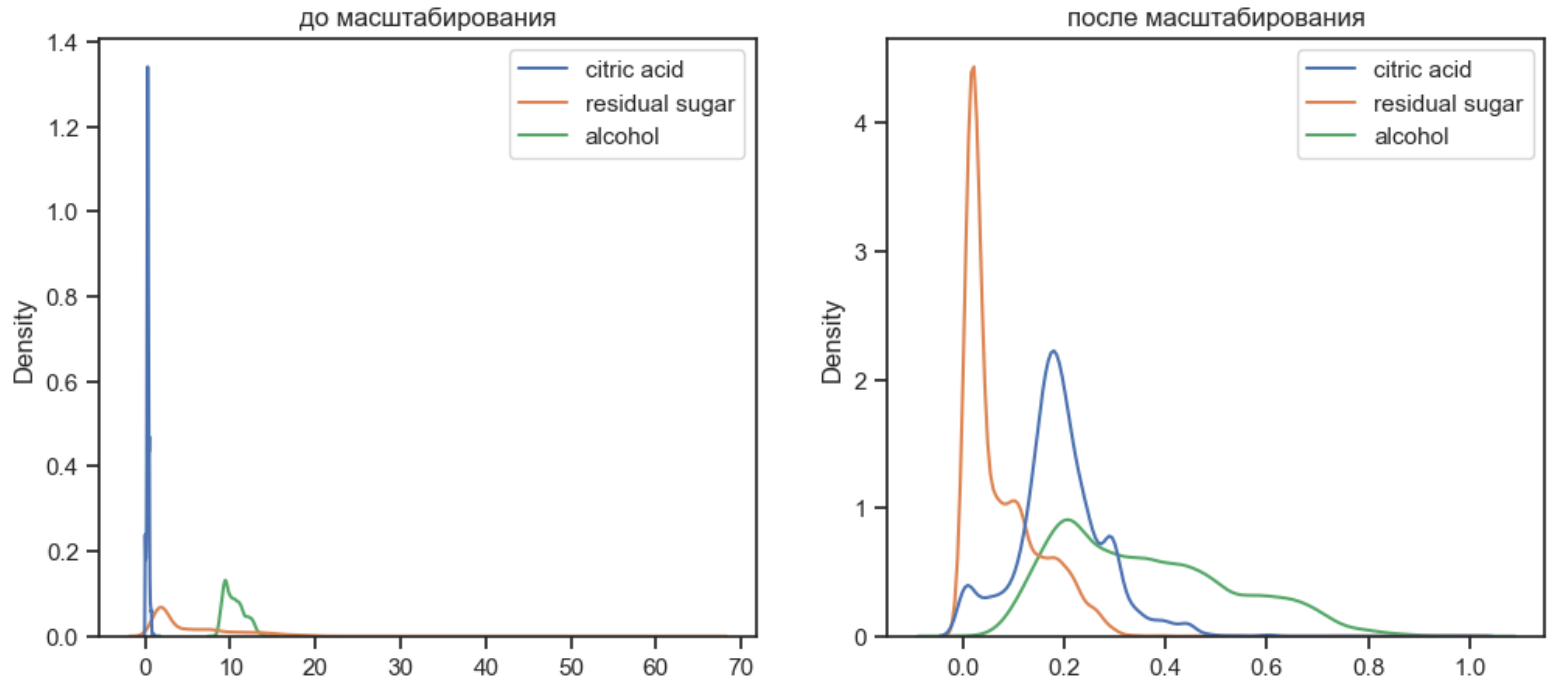
Out[28]:

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide
count	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000
mean	0.501097	0.246480	0.282459	0.173059	0.192023	0.074294	0.078166	0.102489	0.252752
std	0.287855	0.430995	0.107266	0.109759	0.087501	0.072958	0.058265	0.061663	0.130246
min	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
25%	0.252386	0.000000	0.214876	0.100000	0.150602	0.018405	0.048173	0.055556	0.163594
50%	0.501385	0.000000	0.264463	0.140000	0.186747	0.036810	0.063123	0.097222	0.258065
75%	0.750077	0.000000	0.322314	0.213333	0.234940	0.115031	0.093023	0.138889	0.345622
max	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

MinMax-масштабирование

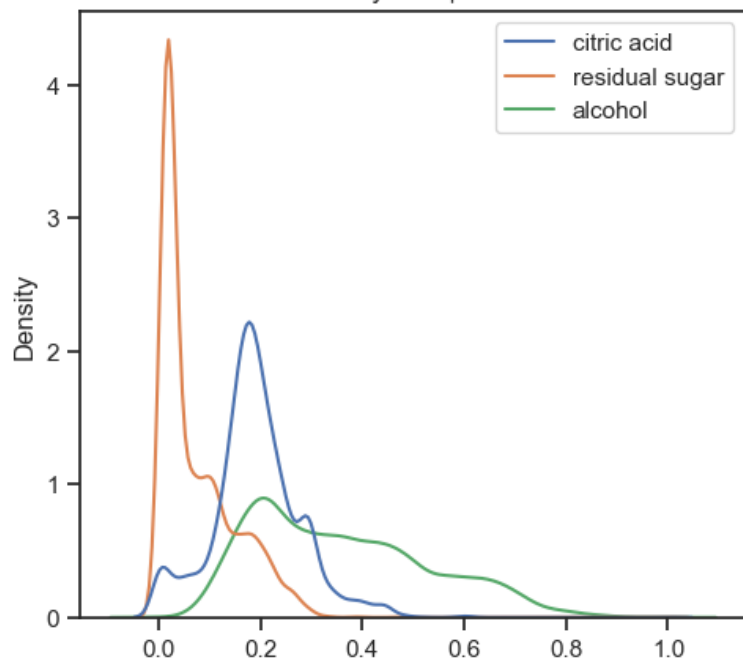
```
In [29]:cs32 = MinMaxScaler()
cs32.fit(X_train)
data_cs32_scaled_train_temp = cs32.transform(X_train)
data_cs32_scaled_test_temp = cs32.transform(X_test)
# формируем DataFrame на основе массива
data_cs32_scaled_train = arr_to_df(data_cs32_scaled_train_temp)
data_cs32_scaled_test = arr_to_df(data_cs32_scaled_test_temp)

In [30]:draw_kde(['citric acid', 'residual sugar', 'alcohol'], data, data_cs31_scaled, 'до масштабирования', 'после масштабирования')
```

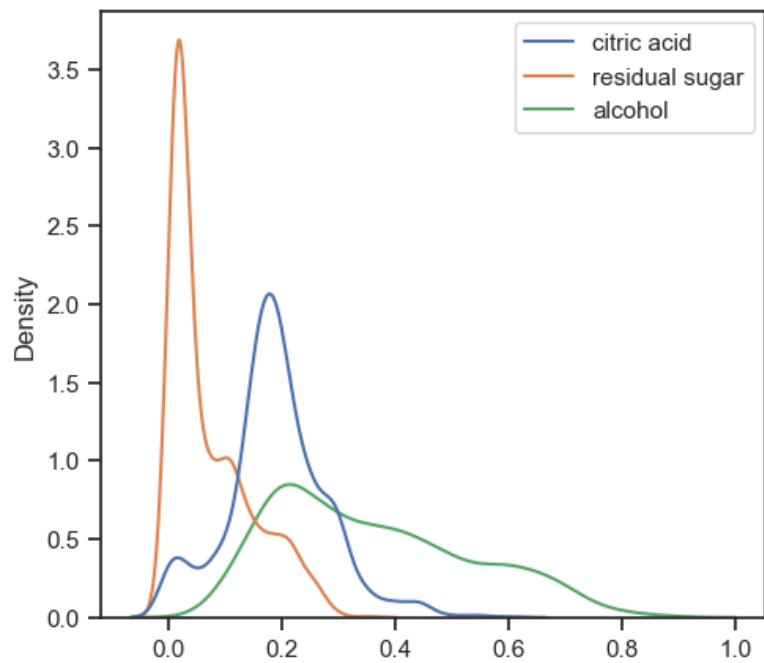


```
In [31]:draw_kde(['citric acid', 'residual sugar', 'alcohol'], data_cs32_scaled_train, data_cs32_scaled_test, 'обучающая', 'тестовая')
```

обучающая



тестовая



Обработка выбросов для числовых признаков

Масштабирование по медиане

```
In [32]:cs41 = RobustScaler()
data_cs41_scaled_temp = cs41.fit_transform(X_ALL)
# формируем DataFrame на основе массива
data_cs41_scaled = arr_to_df(data_cs41_scaled_temp)
data_cs41_scaled.describe()
```

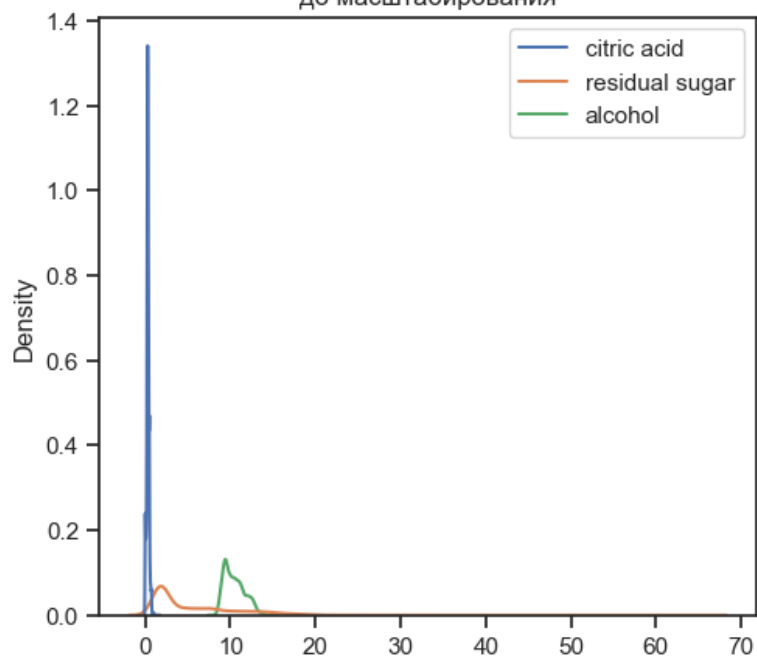
Out[32]:

	index	type	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide
count	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000	6463.000000
mean	-0.000580	0.246480	0.167504	0.291701	0.062554	0.387930	0.335408	0.063203	-0.029184
std	0.578381	0.430995	0.998395	0.968466	1.037516	0.755056	1.299105	0.739951	0.715528
min	-1.007423	0.000000	-2.461538	-1.235294	-2.214286	-0.380952	-1.407407	-1.166667	-1.417722
25%	-0.500309	0.000000	-0.461538	-0.352941	-0.428571	-0.190476	-0.333333	-0.500000	-0.518987
50%	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
75%	0.499691	0.000000	0.538462	0.647059	0.571429	0.809524	0.666667	0.500000	0.481013
max	1.001856	1.000000	6.846154	7.588235	9.642857	9.968254	20.888889	10.833333	4.075949

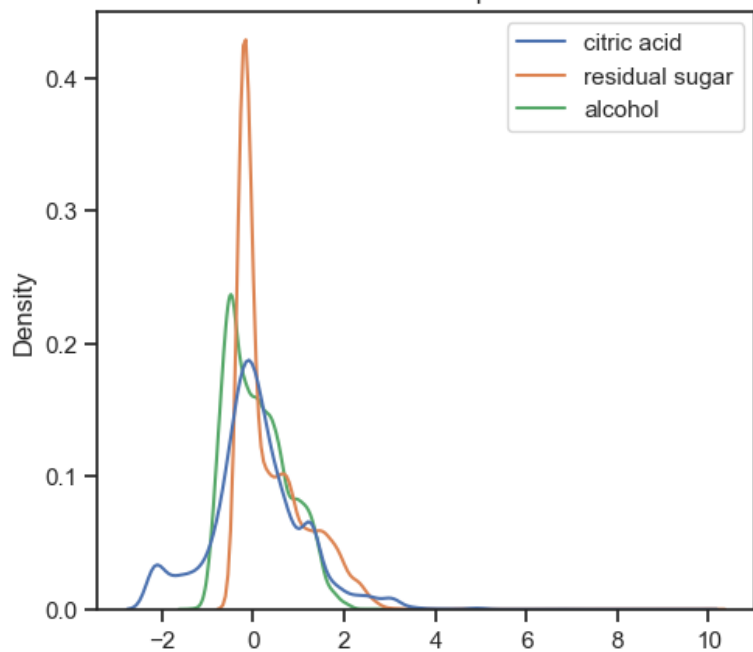
```
In [33]:cs42 = RobustScaler()
cs42.fit(X_train)
data_cs42_scaled_train_temp = cs42.transform(X_train)
data_cs42_scaled_test_temp = cs42.transform(X_test)
# формируем DataFrame на основе массива
data_cs42_scaled_train = arr_to_df(data_cs42_scaled_train_temp)
data_cs42_scaled_test = arr_to_df(data_cs42_scaled_test_temp)

In [34]:draw_kde(['citric acid', 'residual sugar', 'alcohol'], data, data_cs41_scaled, 'до масштабирования', 'после масштабирования')
```

до масштабирования

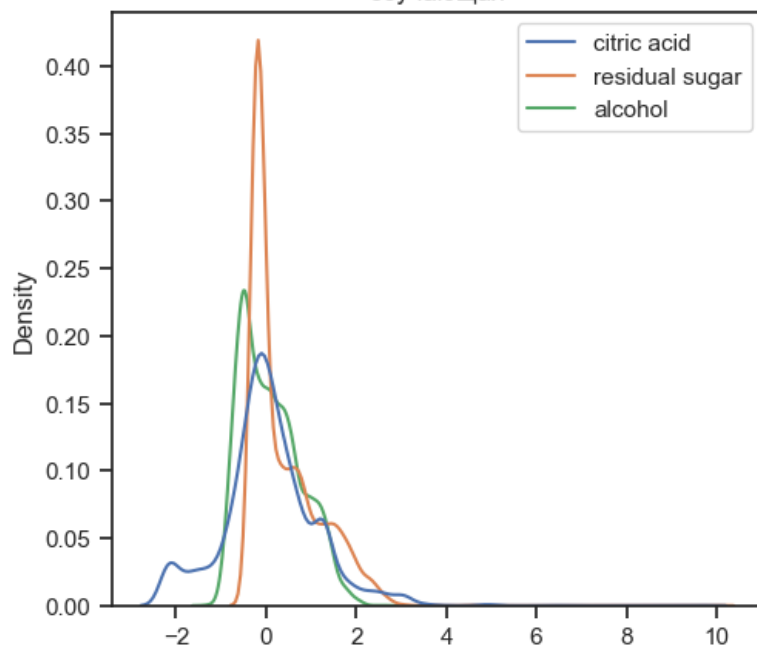


после масштабирования

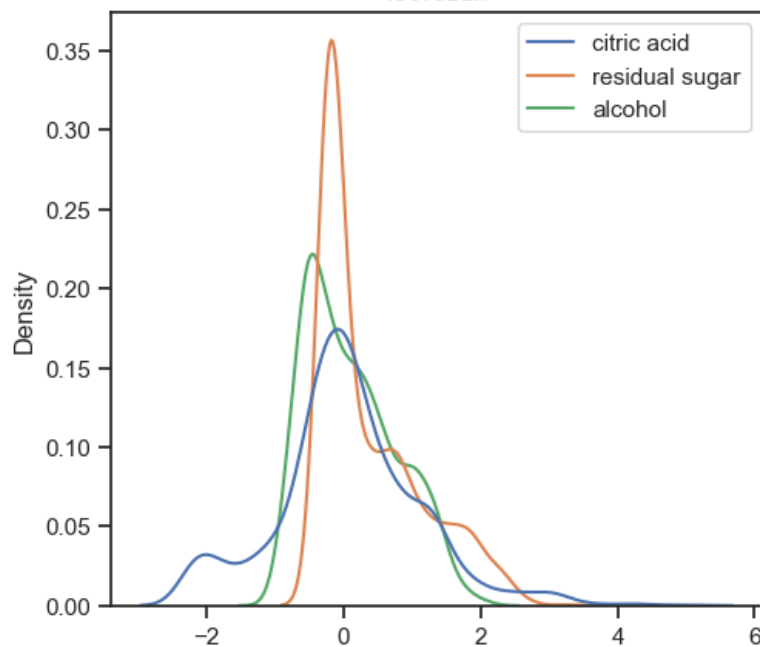


In [35]: draw_kde(['citric acid', 'residual sugar', 'alcohol'], data_cs42_scaled_train, data_cs42_scaled_test, 'обучающая', 'тестовая')

обучающая



тестовая



```
In [36]: x_col_list = ['citric acid', 'residual sugar', 'alcohol', 'quality']
x_col_lost = ['type', 'fixed acidity', 'volatile acidity', 'chlorides', 'free sulfur dioxide', 'total sulfur dioxide', 'density',
              'pH', 'sulphates']
x_col_all = ['type', 'fixed acidity', 'volatile acidity', 'citric acid', 'residual sugar', 'chlorides', 'free sulfur dioxide',
            'total sulfur dioxide', 'density', 'pH', 'sulphates', 'alcohol', 'quality']
data2 = data.drop(x_col_lost, axis = 1)
data2
```

Out[36]:

	index	citric acid	residual sugar	alcohol	quality	
	0	0	0.36	20.7	8.8	6
	1	1	0.34	1.6	9.5	6
	2	2	0.40	6.9	10.1	6
	3	3	0.32	8.5	9.9	6
	4	4	0.32	8.5	9.9	6

	6458	6491	0.08	1.9	9.5	6
	6459	6492	0.08	2.0	10.5	5
	6460	6494	0.13	2.3	11.0	6
	6461	6495	0.12	2.0	10.2	5
	6462	6496	0.47	3.6	11.0	6

6463 rows × 5 columns

```
In [37]:# Колонки с пропусками
hcols_with_na = [c for c in data2.columns if data2[c].isnull().sum() > 0]
hcols_with_na
# Количество пропусков
[(c, data2[c].isnull().sum()) for c in hcols_with_na]

Out[37]:[]

In [38]:# Доля (процент) пропусков
[(c, data2[c].isnull().mean()) for c in hcols_with_na]
```

```
Out[38]:[]

In [39]:data2 = data2.dropna(axis=0, how='any')
data2
```

Out[39]:

	index	citric acid	residual sugar	alcohol	quality	
	0	0	0.36	20.7	8.8	6
	1	1	0.34	1.6	9.5	6
	2	2	0.40	6.9	10.1	6
	3	3	0.32	8.5	9.9	6
	4	4	0.32	8.5	9.9	6

	6458	6491	0.08	1.9	9.5	6
	6459	6492	0.08	2.0	10.5	5
	6460	6494	0.13	2.3	11.0	6
	6461	6495	0.12	2.0	10.2	5
	6462	6496	0.47	3.6	11.0	6

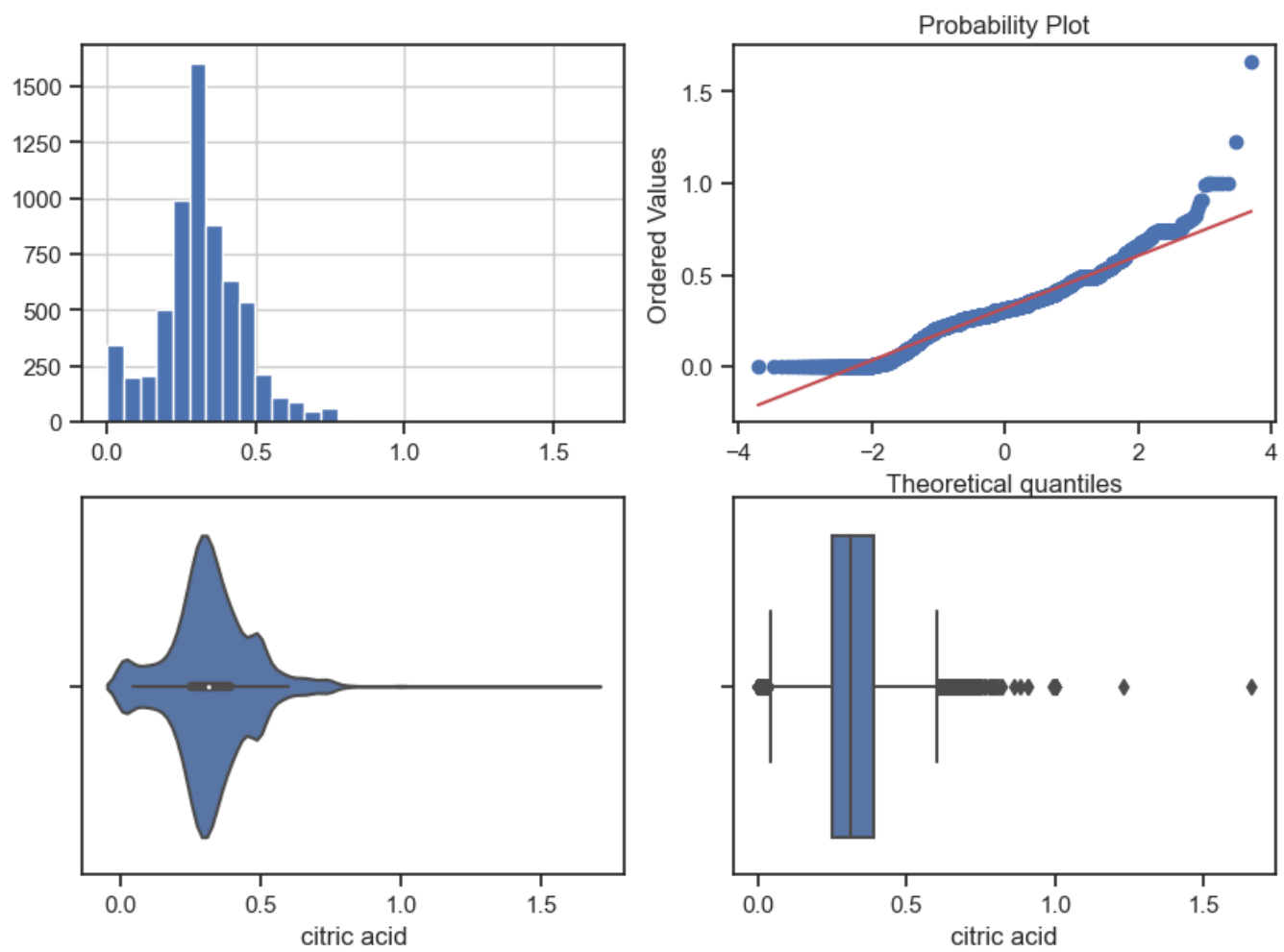
6463 rows × 5 columns

```
In [40]:data2.shape
Out[40]:(6463, 5)

In [41]:def diagnostic_plots(df, variable, title):
    fig, ax = plt.subplots(figsize=(10,7))
    # гистограмма
    plt.subplot(2, 2, 1)
    df[variable].hist(bins=30)
    ## Q-Q plot
    plt.subplot(2, 2, 2)
    stats.probplot(df[variable], dist="norm", plot=plt)
    # ящик с усами
    plt.subplot(2, 2, 3)
    sns.violinplot(x=df[variable])
    # ящик с усами
    plt.subplot(2, 2, 4)
    sns.boxplot(x=df[variable])
    fig.suptitle(title)
    plt.show()

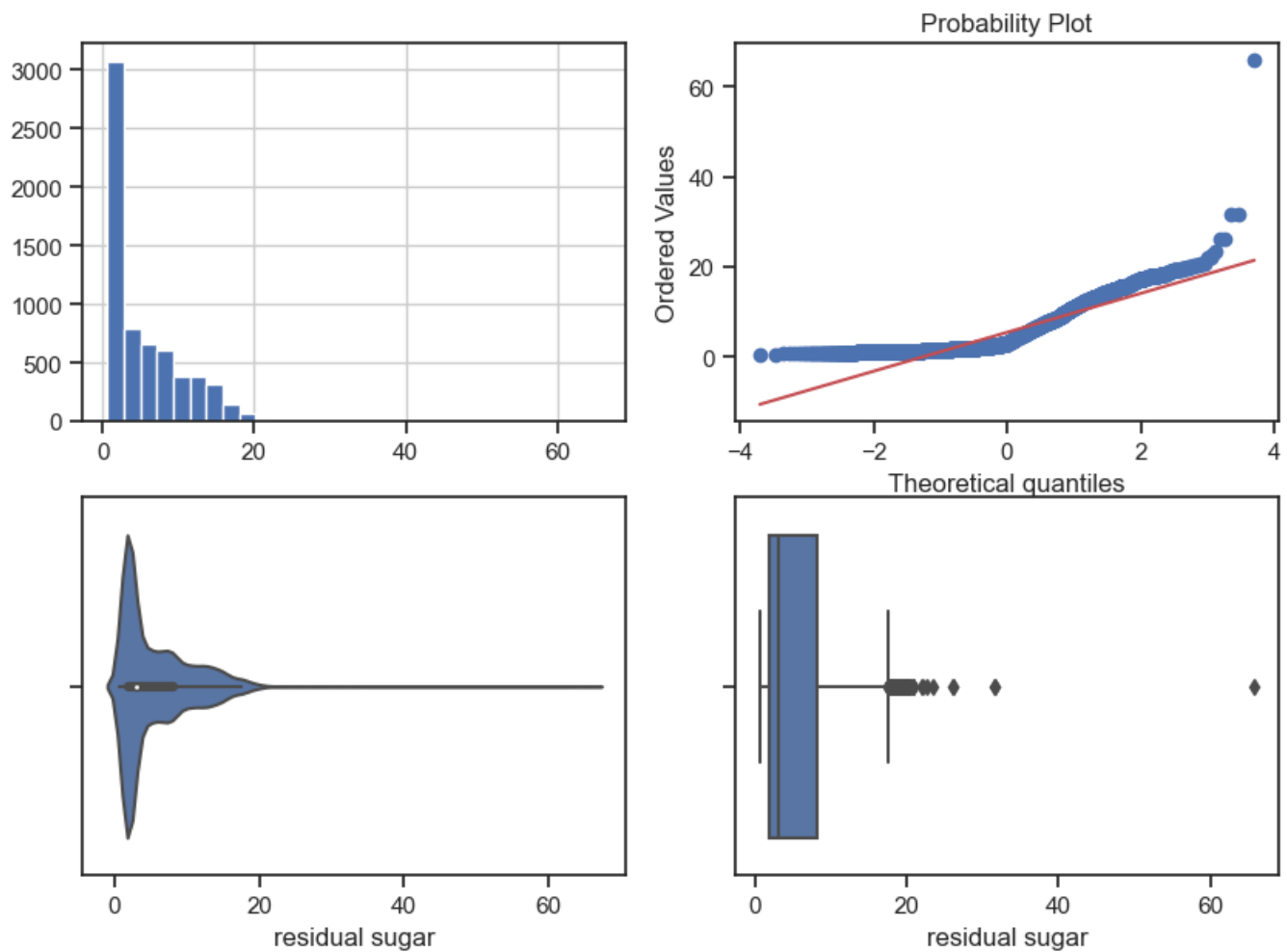
In [42]:diagnostic_plots(data2, 'citric acid', 'citric acid - original')
```

citric acid - original



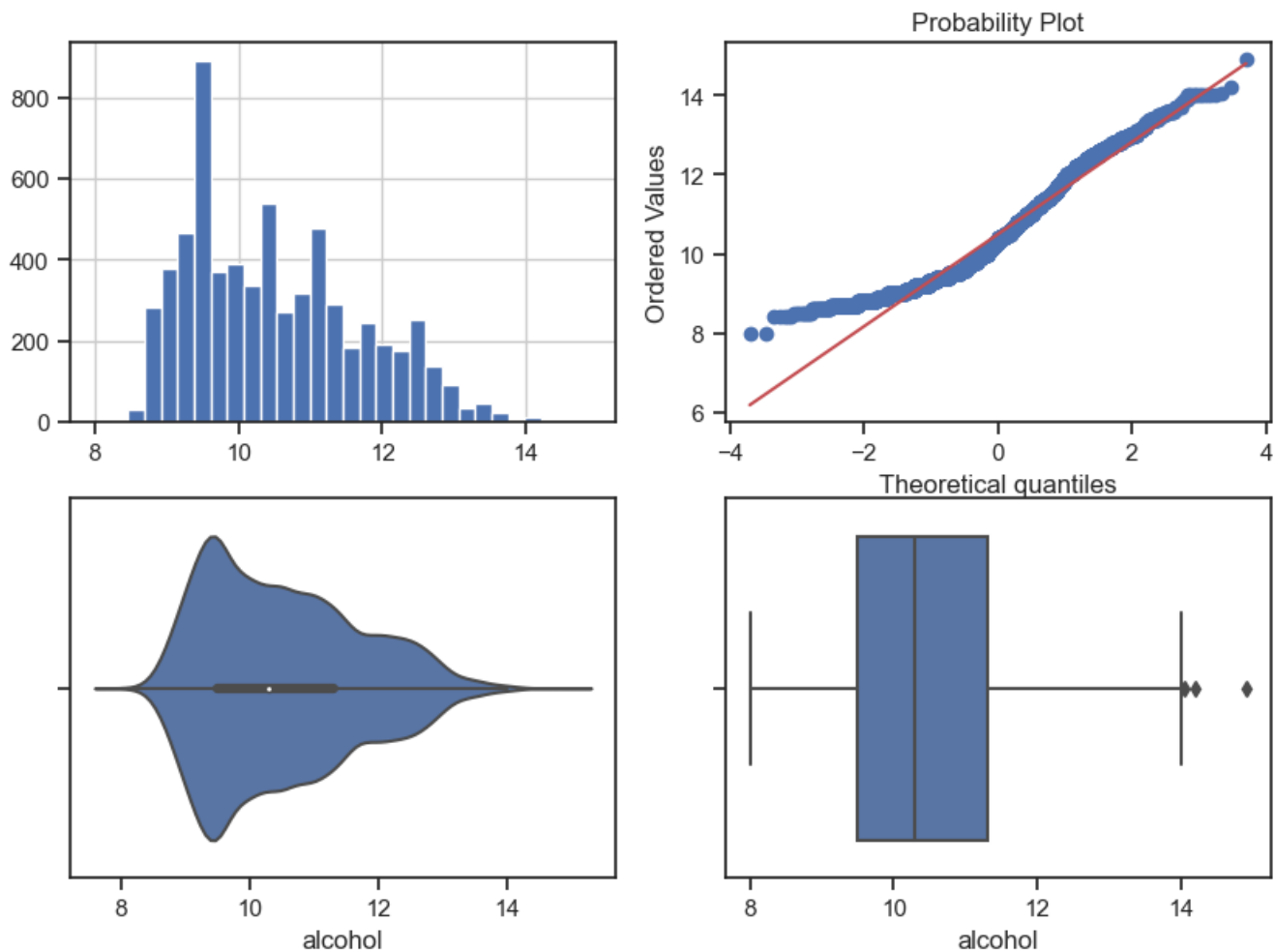
In [43]:diagnostic_plots(data2, 'residual sugar', 'residual sugar - original')

residual sugar - original



In [44]:diagnostic_plots(data, 'alcohol', 'alcohol - original')

alcohol - original



In [45]:# Тип вычисления верхней и нижней границы выбросов

```
from enum import Enum
class OutlierBoundaryType(Enum):
    SIGMA = 1
    QUANTILE = 2
    IRQ = 3
```

In [46]:# Функция вычисления верхней и нижней границы выбросов

```
def get_outlier_boundaries(df, col, outlier_boundary_type: OutlierBoundaryType):
    if outlier_boundary_type == OutlierBoundaryType.SIGMA:
        K1 = 3
        lower_boundary = df[col].mean() - (K1 * df[col].std())
        upper_boundary = df[col].mean() + (K1 * df[col].std())

    elif outlier_boundary_type == OutlierBoundaryType.QUANTILE:
        lower_boundary = df[col].quantile(0.05)
        upper_boundary = df[col].quantile(0.95)

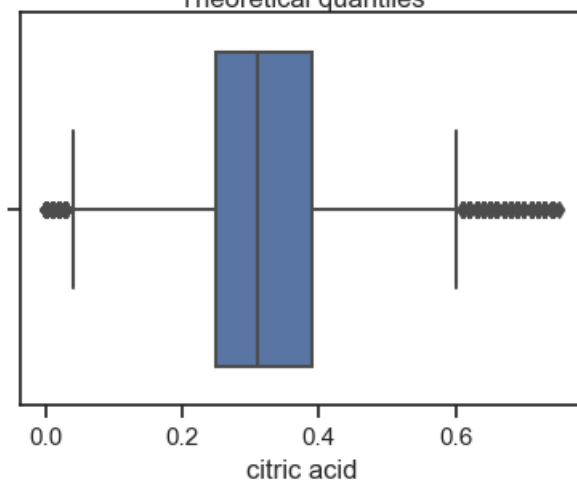
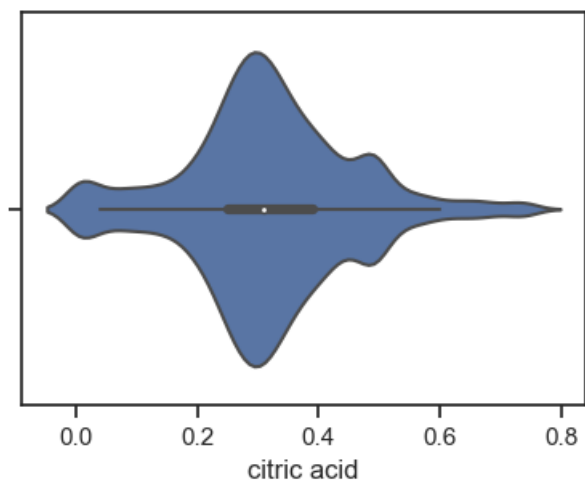
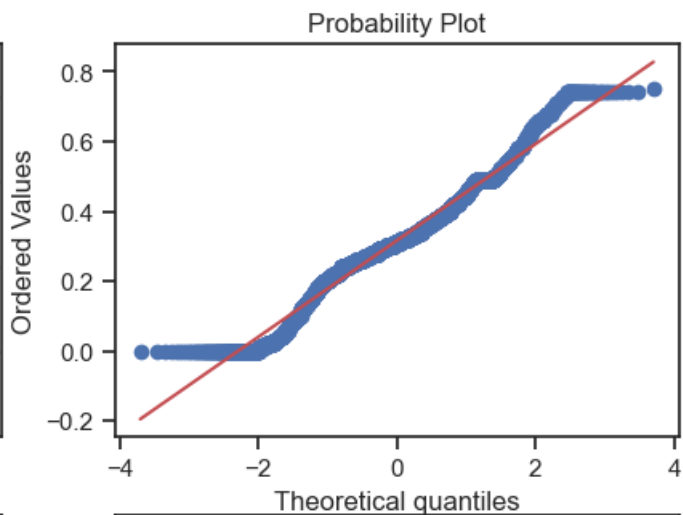
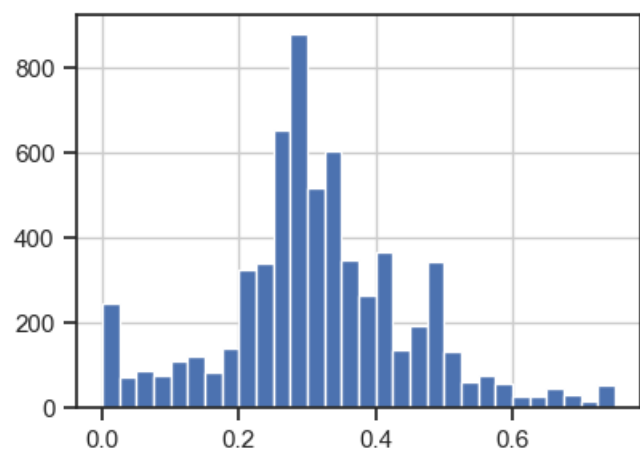
    elif outlier_boundary_type == OutlierBoundaryType.IRQ:
        K2 = 1.5
        IQR = df[col].quantile(0.75) - df[col].quantile(0.25)
        lower_boundary = df[col].quantile(0.25) - (K2 * IQR)
        upper_boundary = df[col].quantile(0.75) + (K2 * IQR)

    else:
        raise NameError('Unknown Outlier Boundary Type')

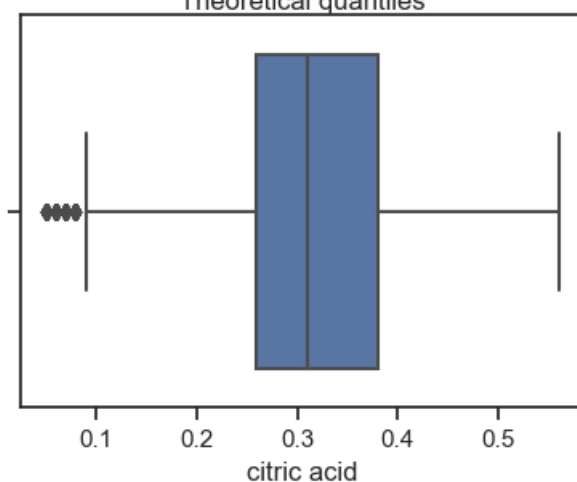
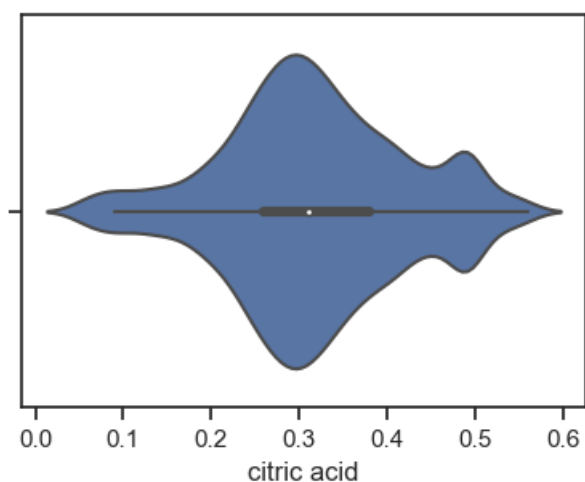
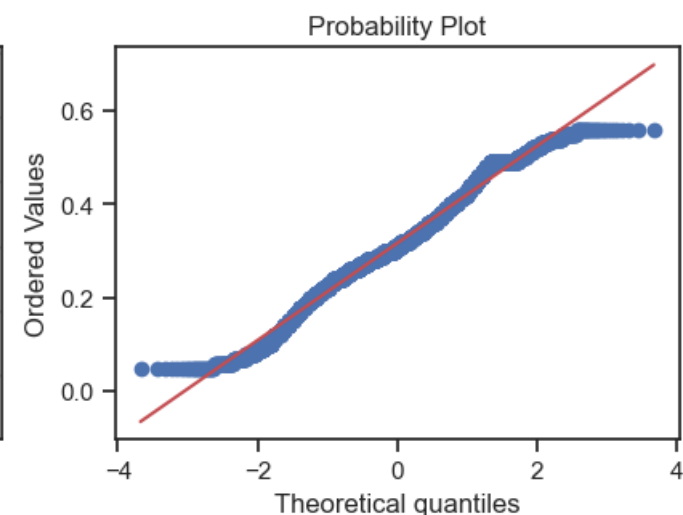
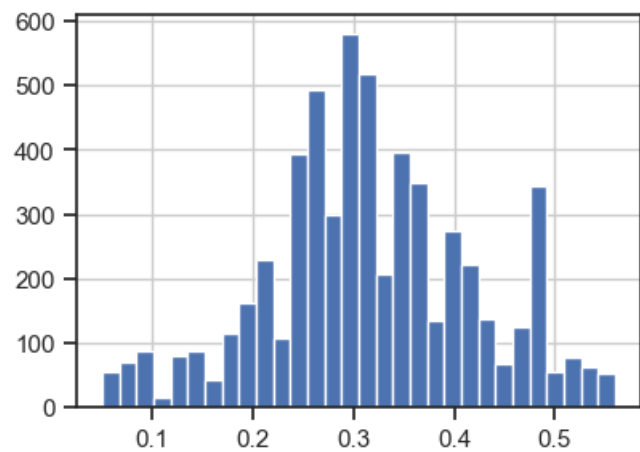
    return lower_boundary, upper_boundary
```

In [47]:for col in x_col_list:

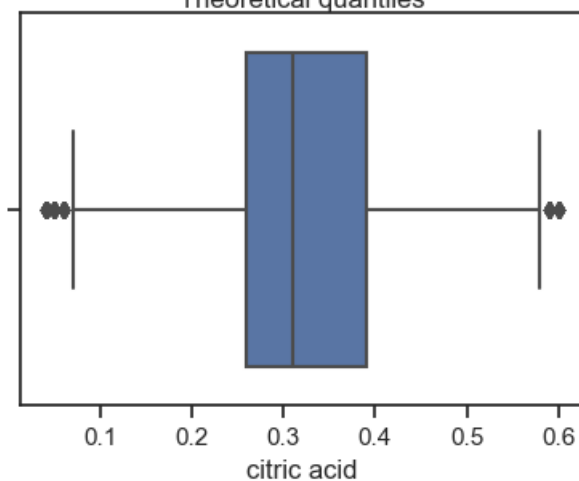
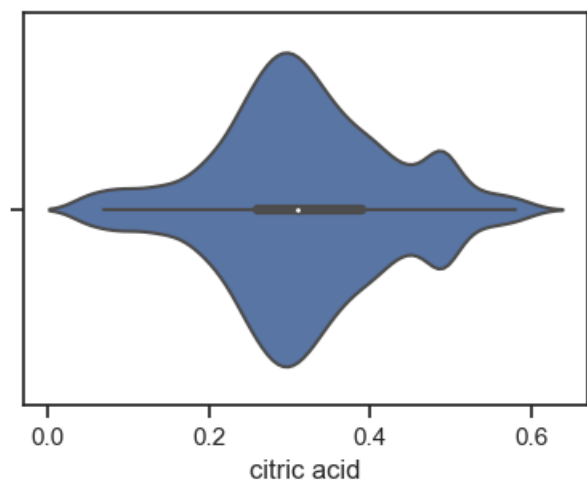
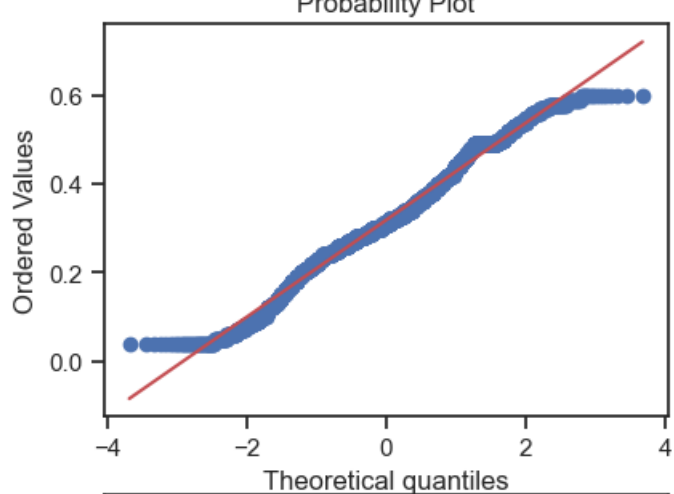
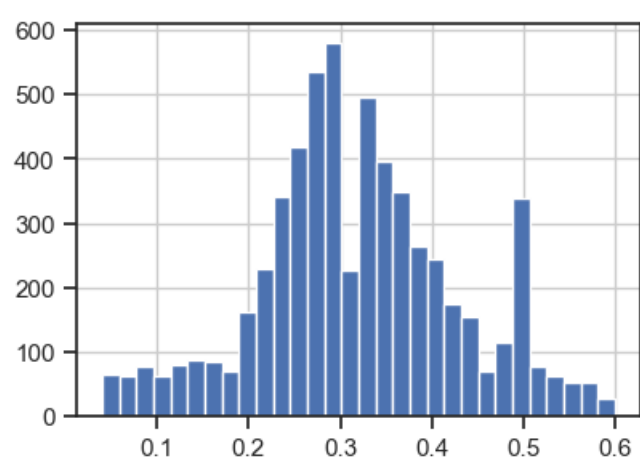
```
for obt in OutlierBoundaryType:
    # Вычисление верхней и нижней границы
    lower_boundary, upper_boundary = get_outlier_boundaries(data2, col, obt)
    # Флаги для удаления выбросов
    outliers_temp = np.where(data2[col] > upper_boundary, True,
                             np.where(data2[col] < lower_boundary, True, False))
    # Удаление данных на основе флага
    data_trimmed = data2.loc[~(outliers_temp), ]
    title = 'Поле-{col}, метод-{obt}, строк-{data_trimmed.shape[0]}'
    diagnostic_plots(data_trimmed, col, title)
```

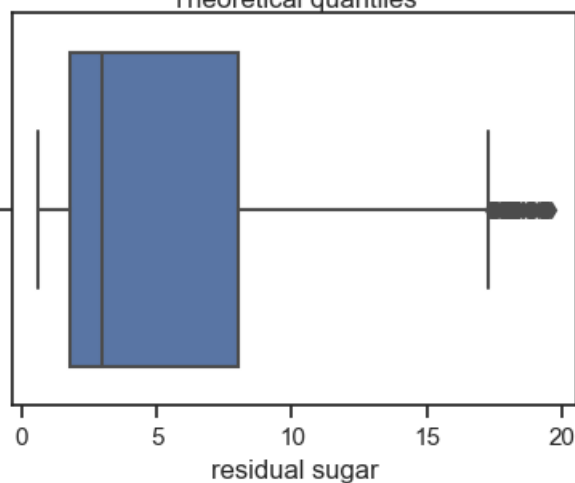
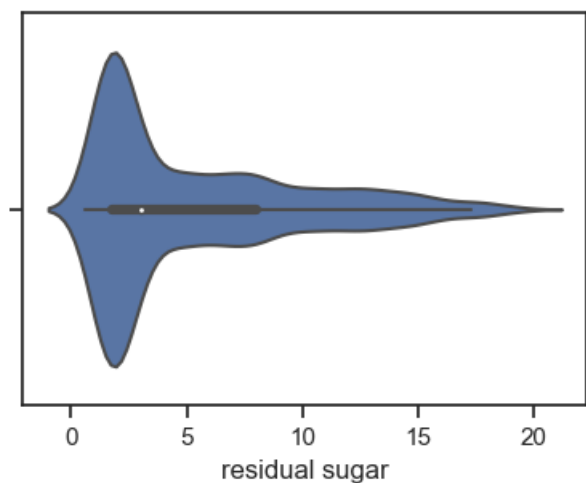
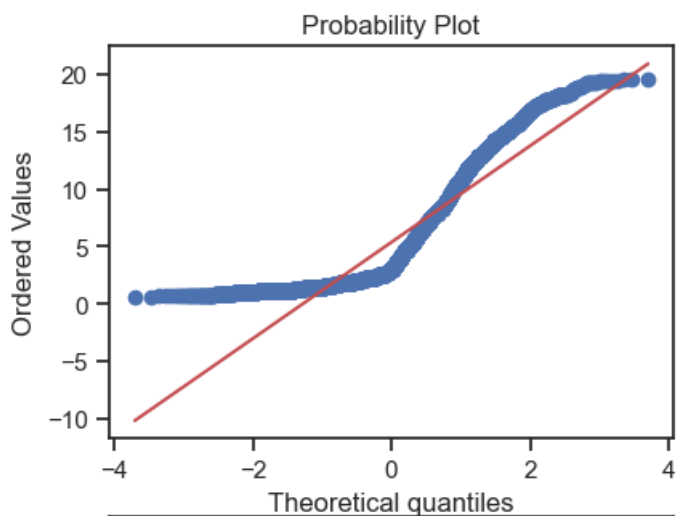
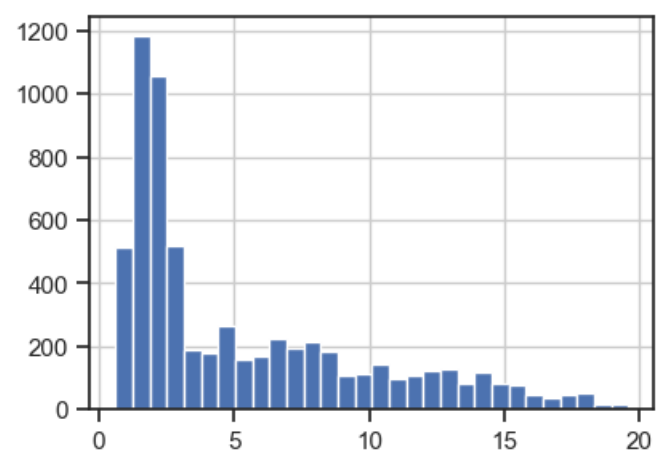
Поле-citric acid, метод-OutlierBoundaryType.QUANTILE, строк-5835



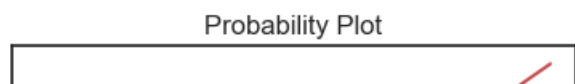
Поле-citric acid, метод-OutlierBoundaryType.IRQ, строк-5956

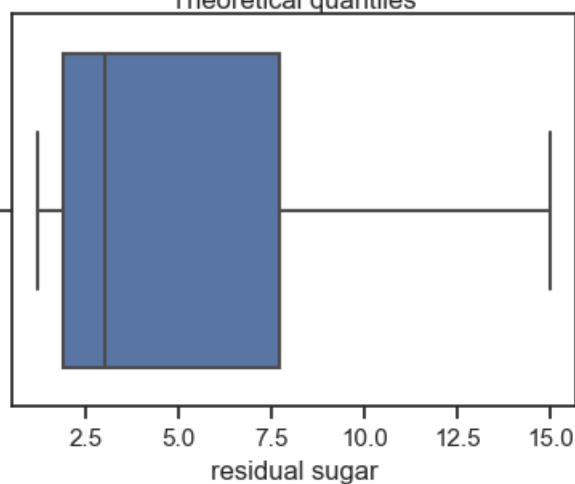
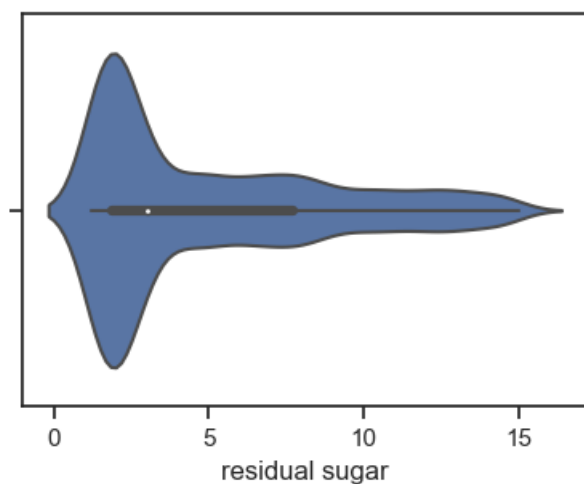
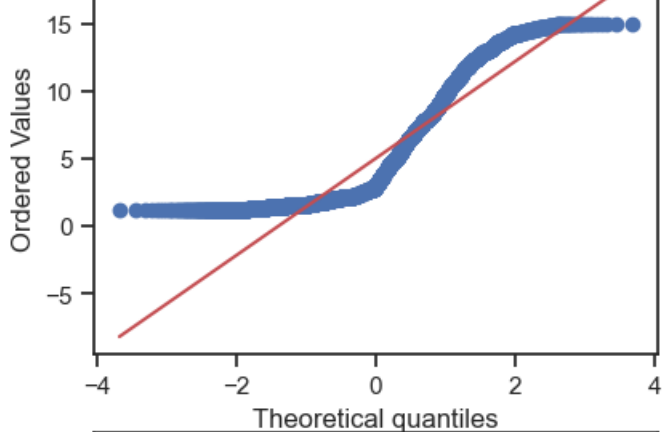
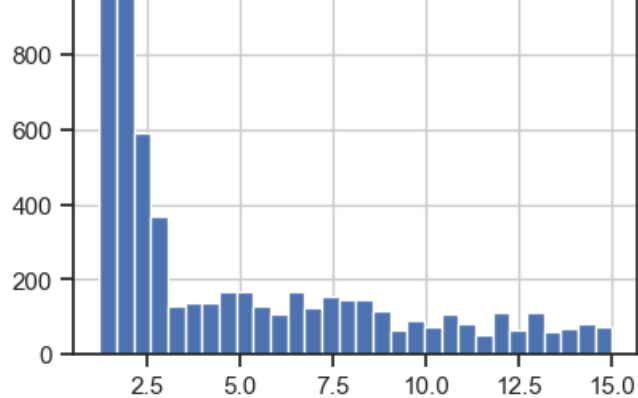


Поле-residual sugar, метод-OutlierBoundaryType.SIGMA, строк-6437

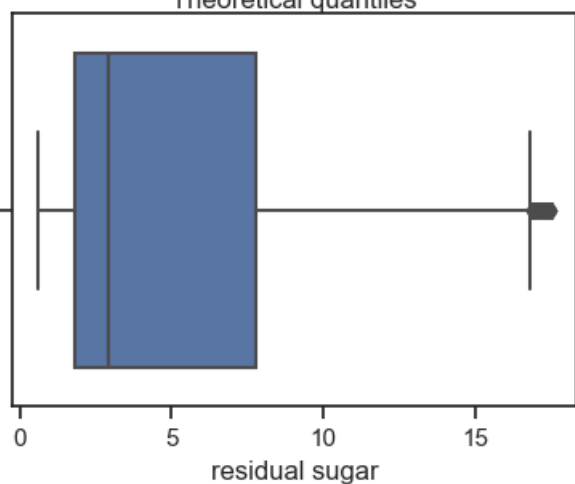
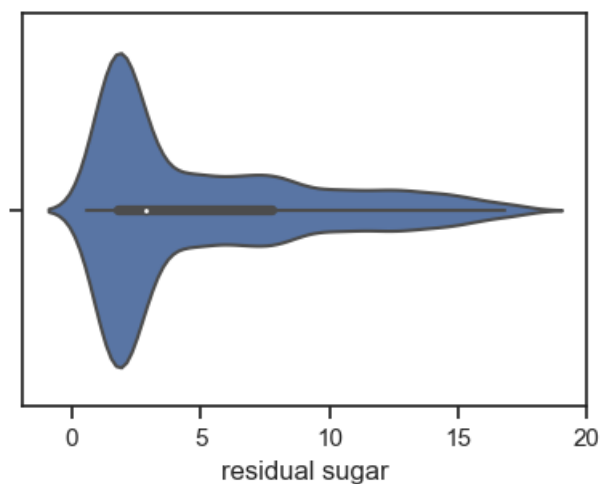
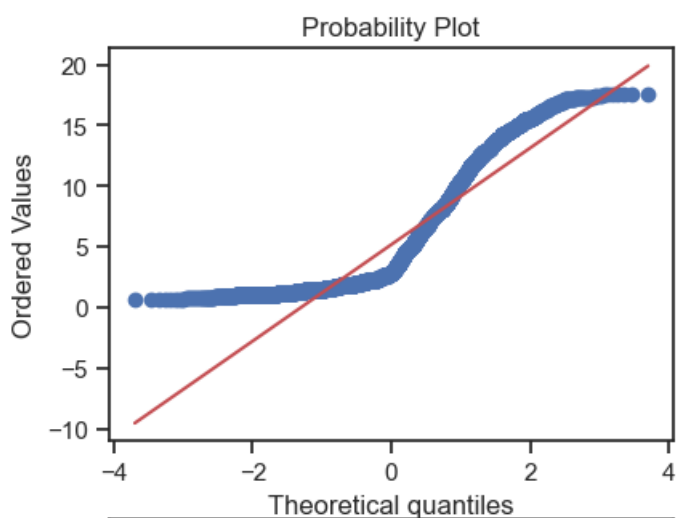
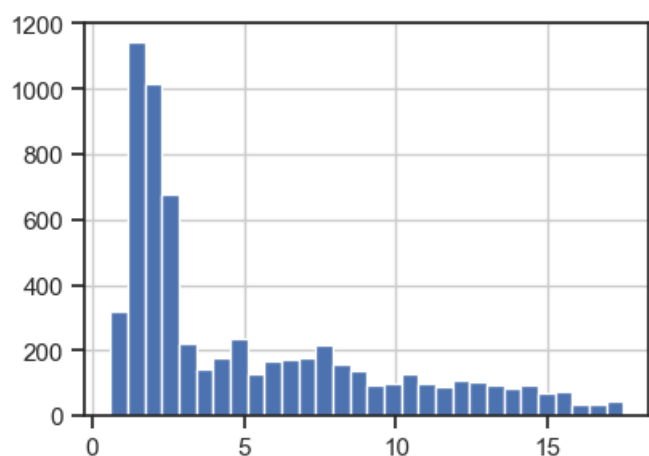


Поле-residual sugar, метод-OutlierBoundaryType.QUANTILE, строк-5821

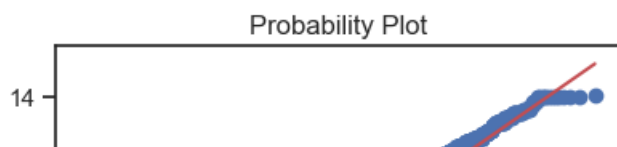
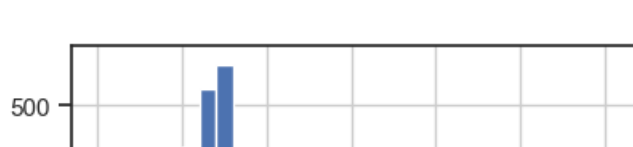


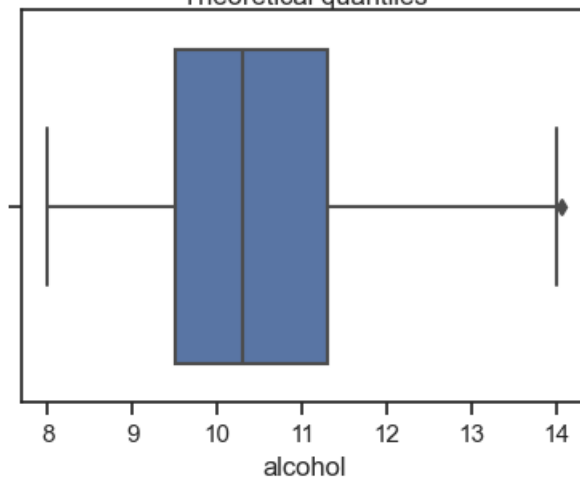
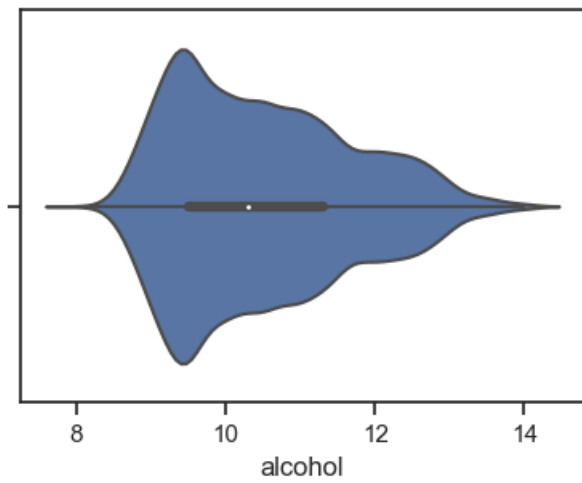
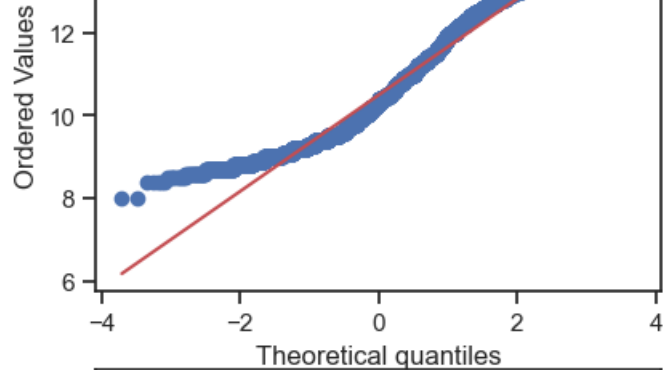
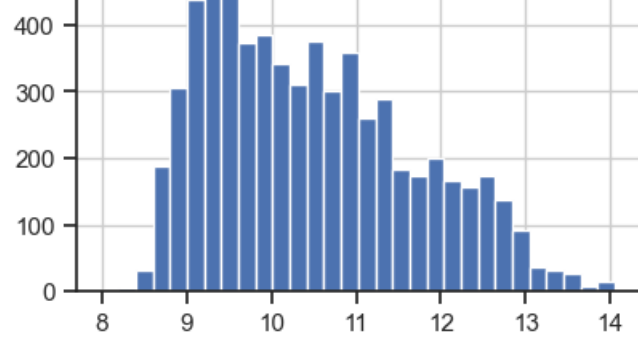


Поле-residual sugar, метод-OutlierBoundaryType.IRQ, строк-6346

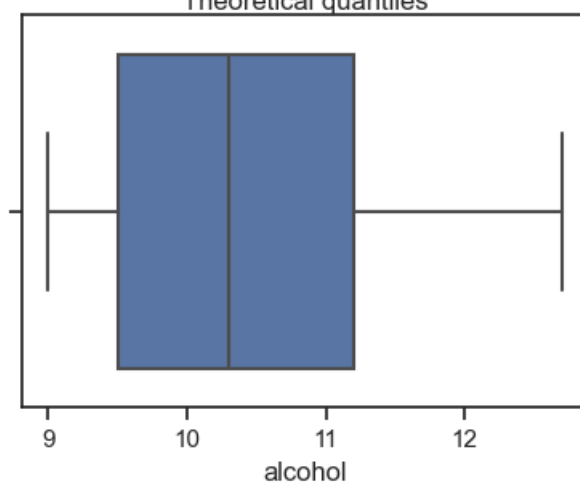
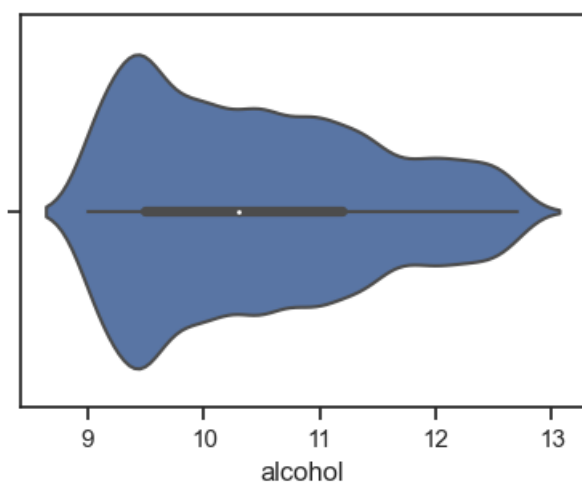
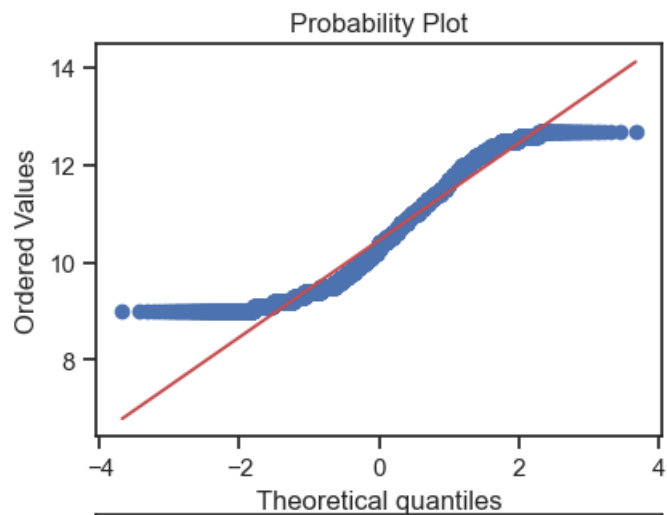
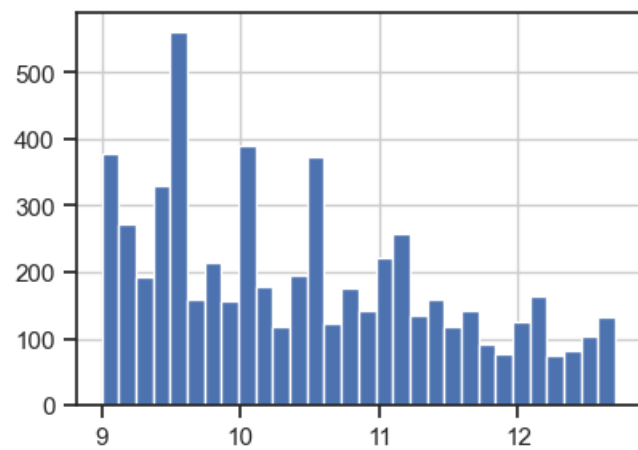


Поле-alcohol, метод-OutlierBoundaryType.SIGMA, строк-6461

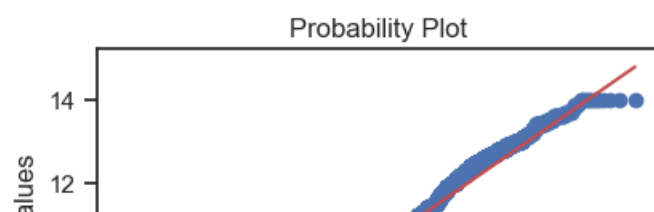
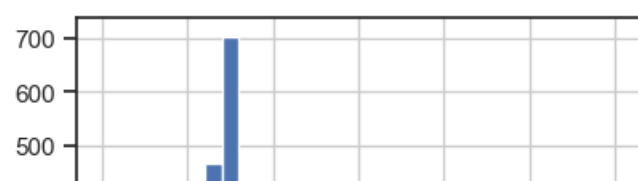


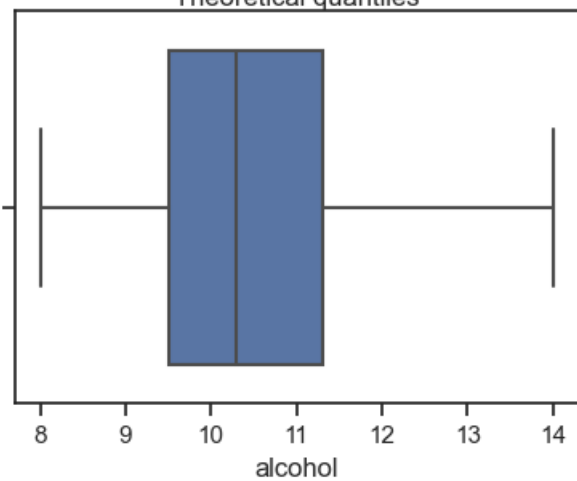
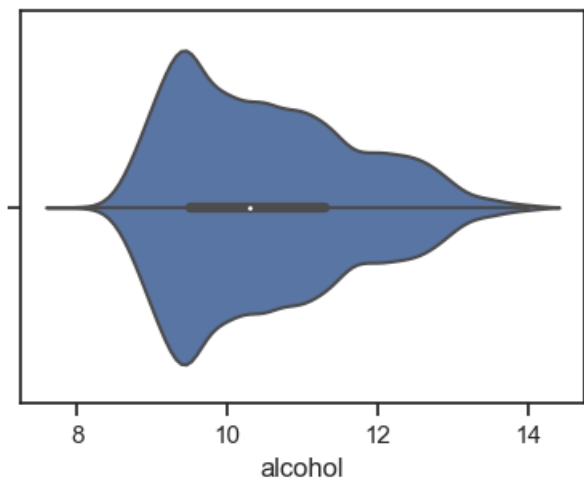
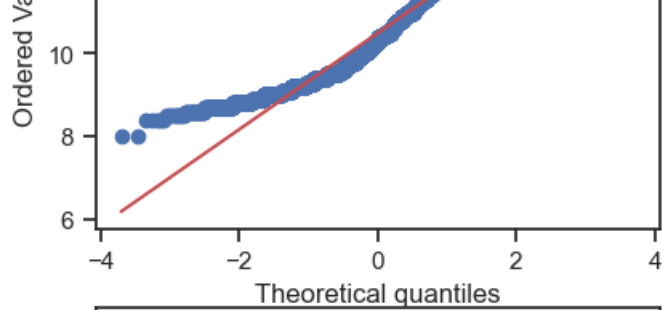
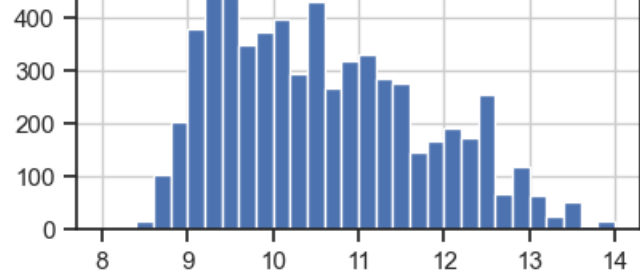


Поле-alcohol, метод-OutlierBoundaryType.QUANTILE, строк-5852

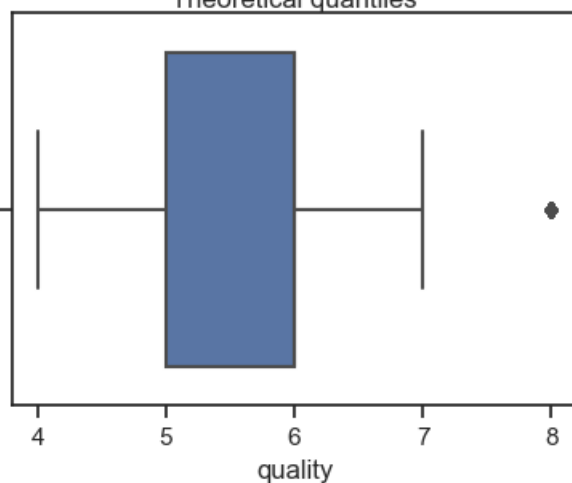
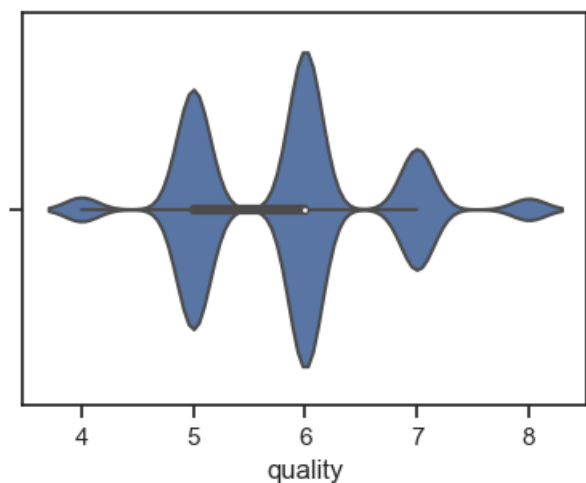
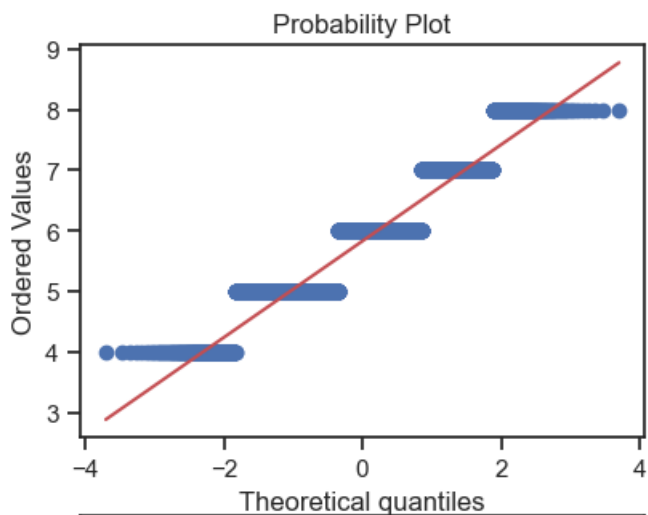
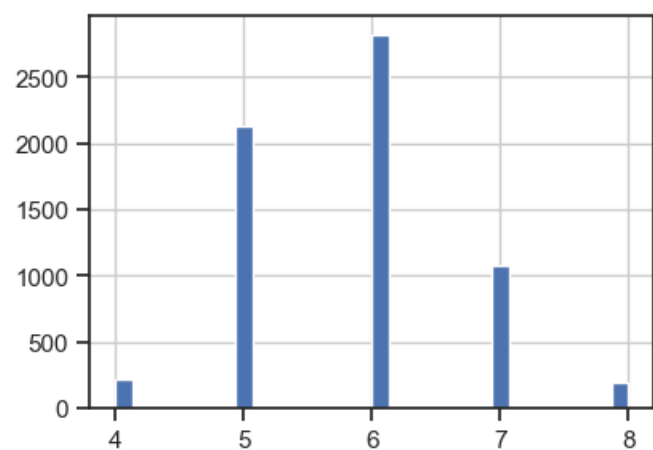


Поле-alcohol, метод-OutlierBoundaryType.IRQ, строк-6460

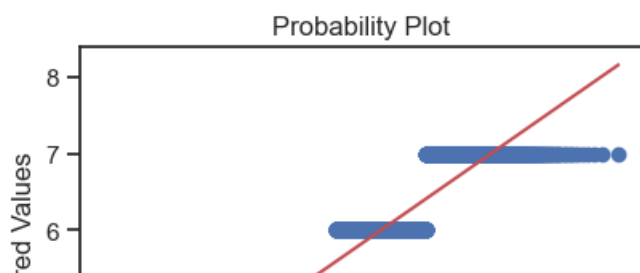


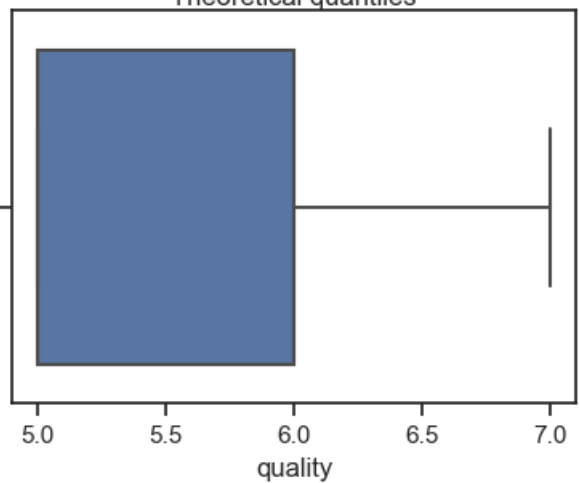
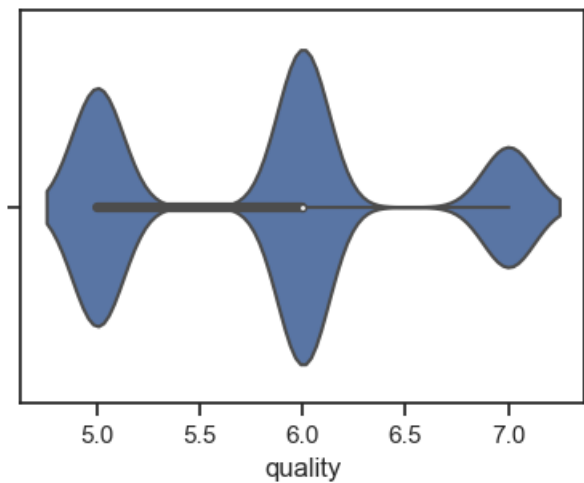
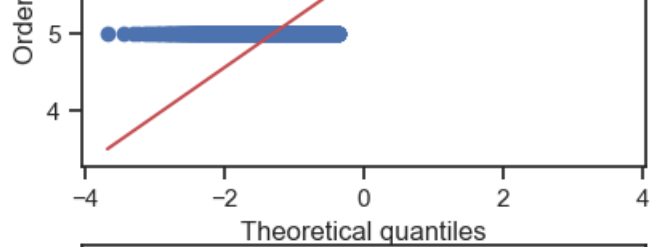
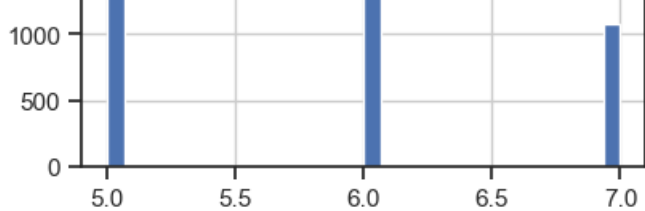


Поле-quality, метод-OutlierBoundaryType.SIGMA, строк-6428

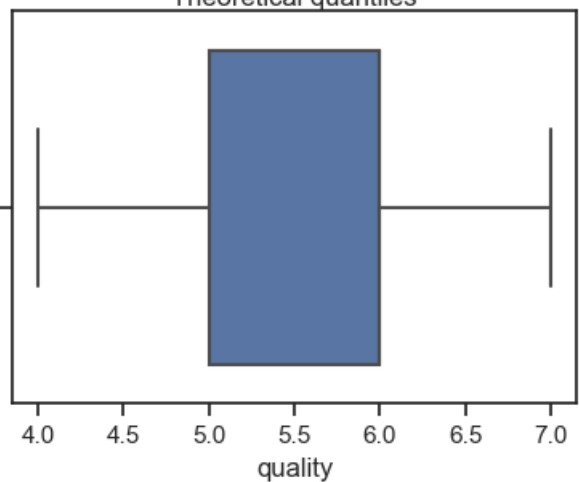
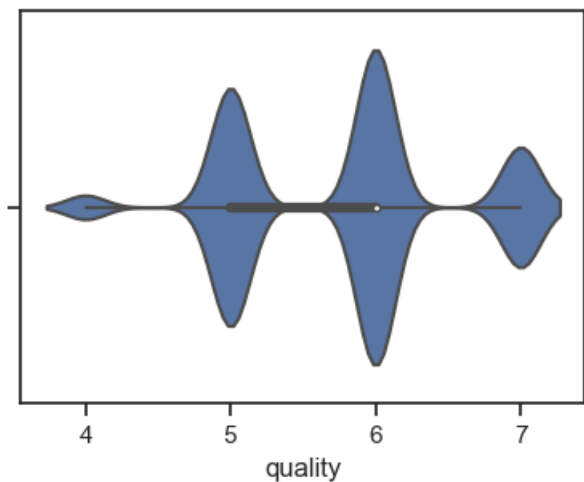
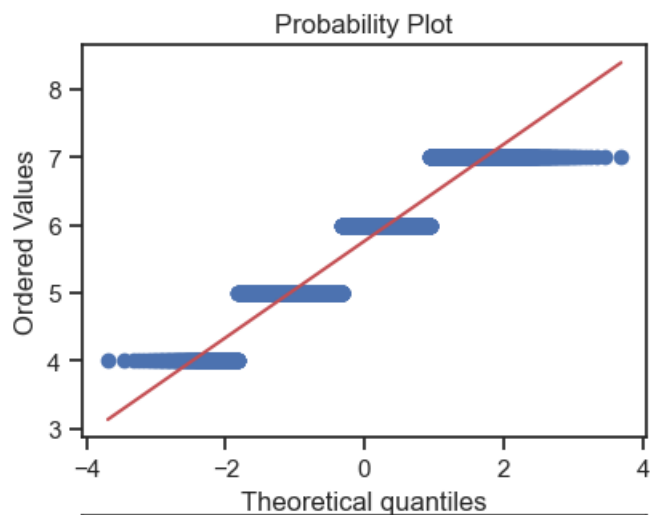
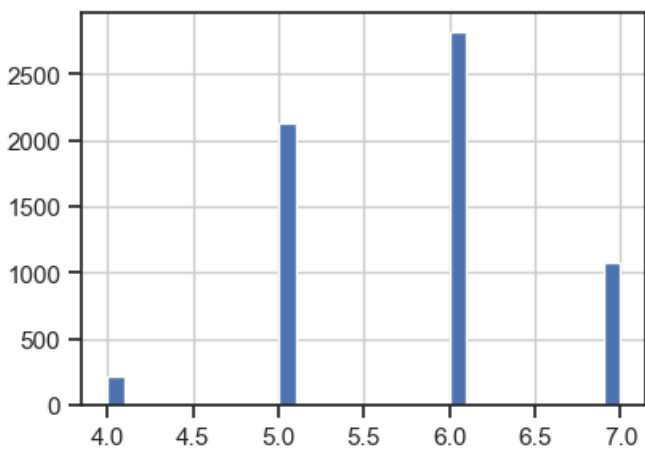


Поле-quality, метод-OutlierBoundaryType.QUANTILE, строк-6022





Поле-quality, метод-OutlierBoundaryType.IRQ, строк-6236



Поле-citric acid, метод-OutlierBoundaryType.SIGMA

Probability Plot

In [48]:for col in x_col_list:

for obt in OutlierBoundaryType:

Вычисление верхней и нижней границы

lower_boundary, upper_boundary = get_outlier_boundaries(data2, col, obt)

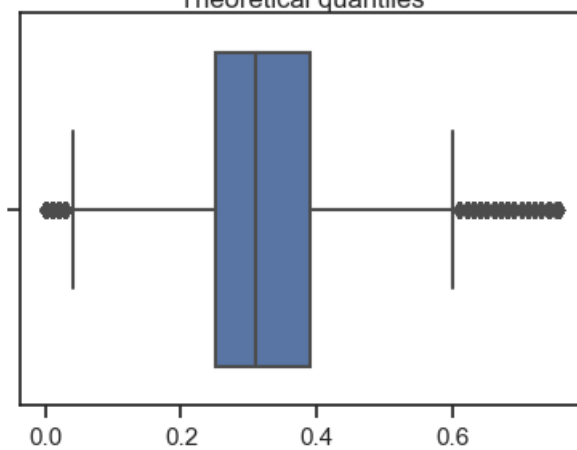
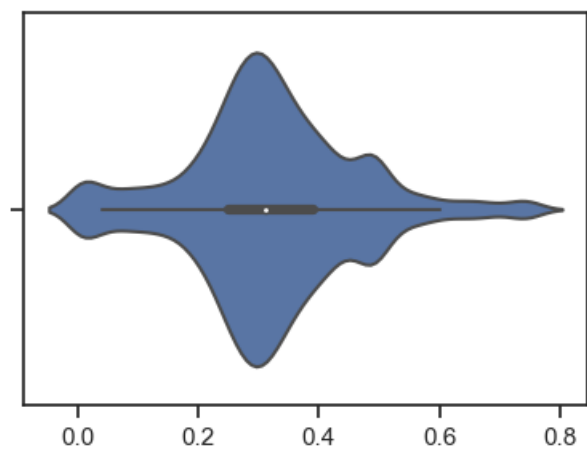
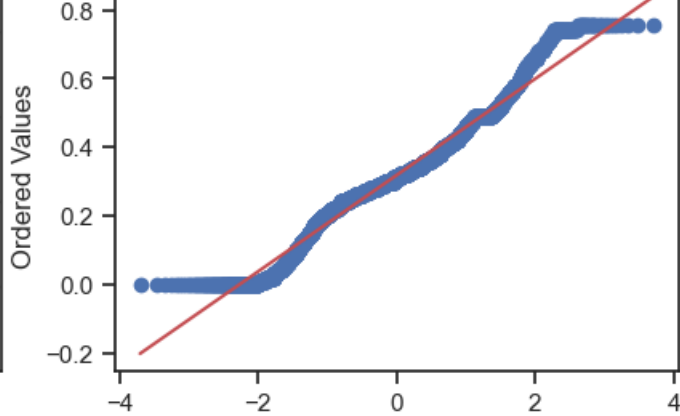
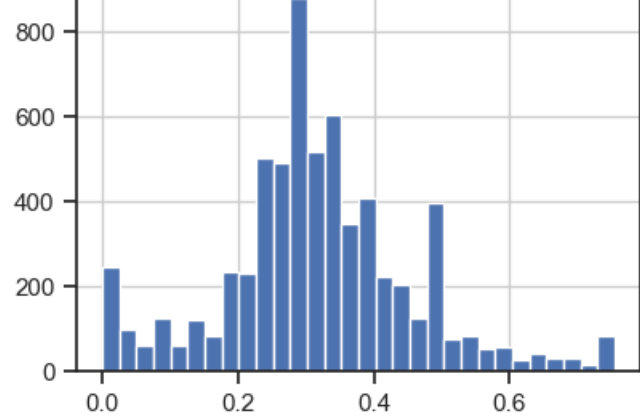
Изменение данных

data2[col] = np.where(data2[col] > upper_boundary, upper_boundary,

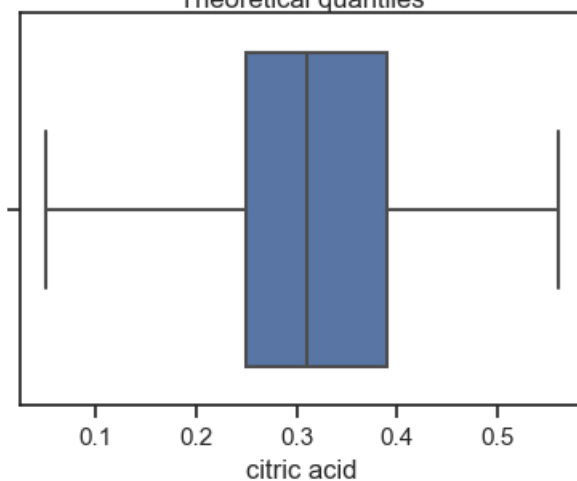
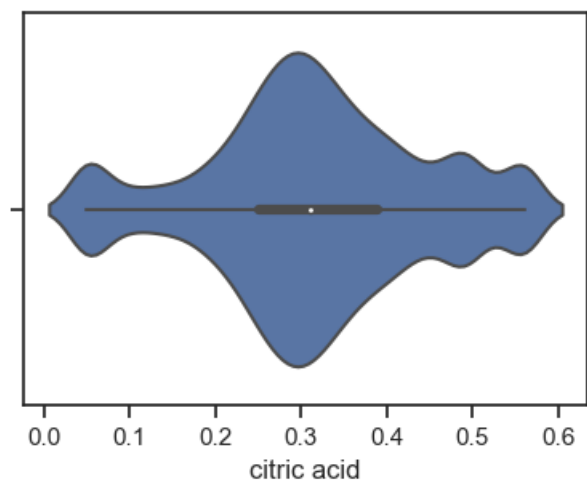
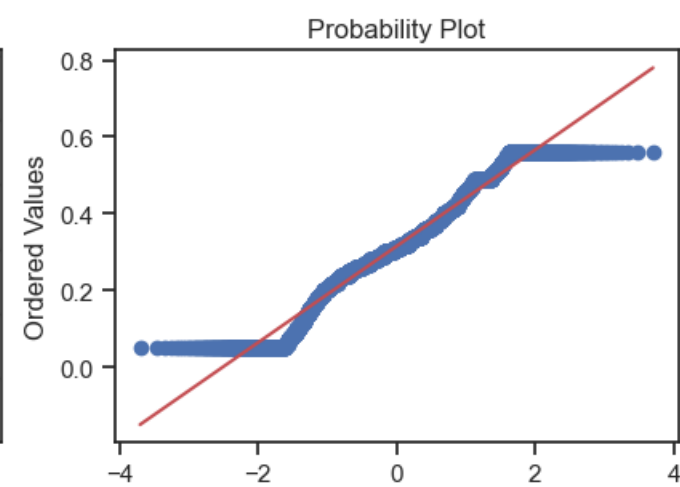
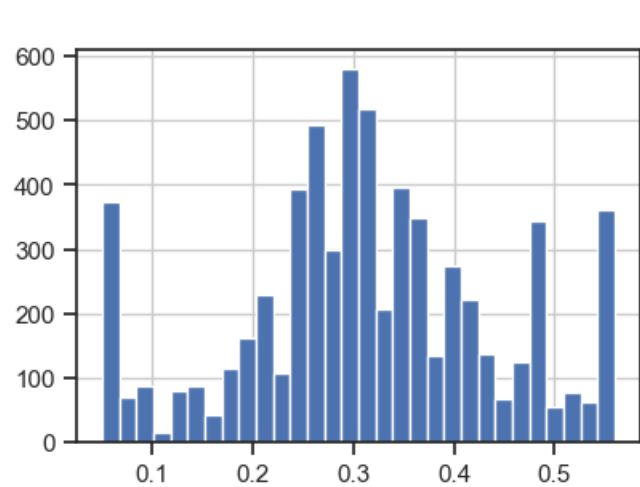
np.where(data2[col] < lower_boundary, lower_boundary, data2[col]))

title = 'Поле-{}, метод-{}'.format(col, obt)

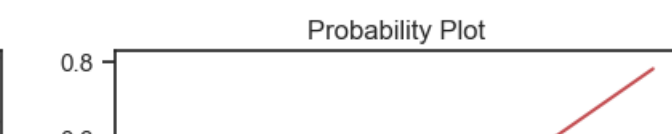
diagnostic_plots(data2, col, title)

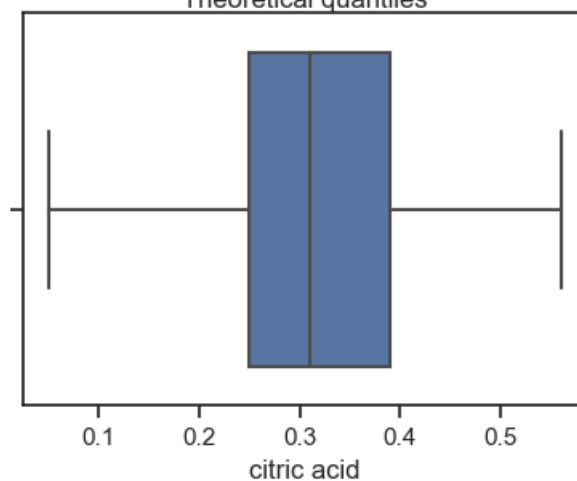
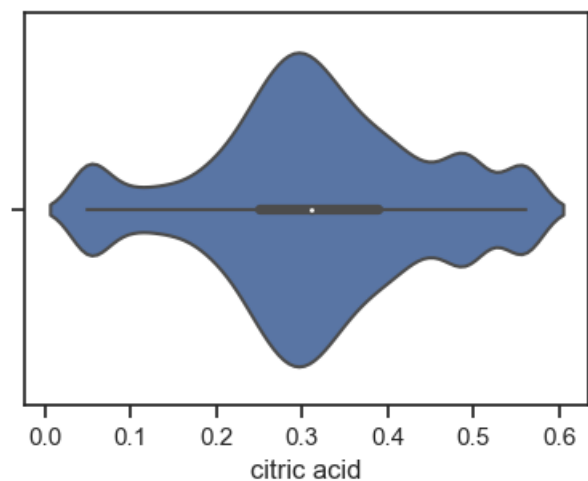
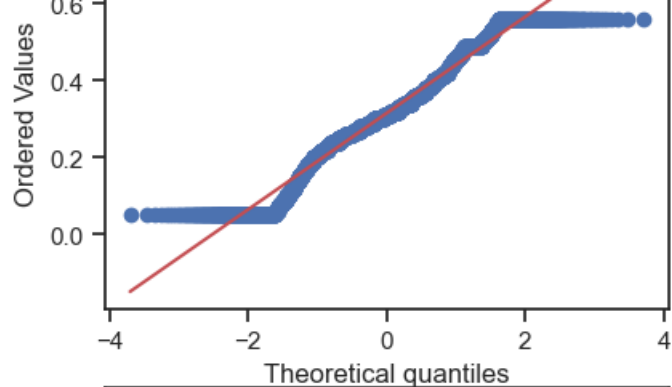
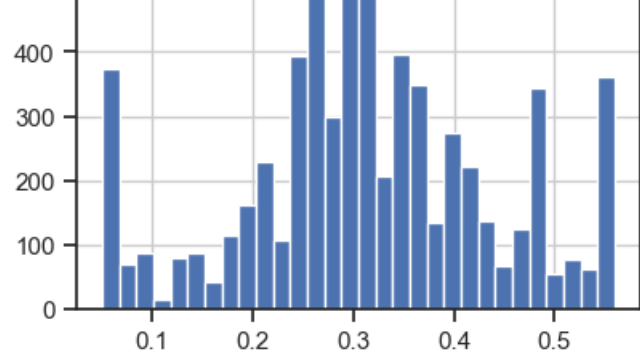


Пале-citric acid, метод-OutlierBoundaryType.QUANTILE

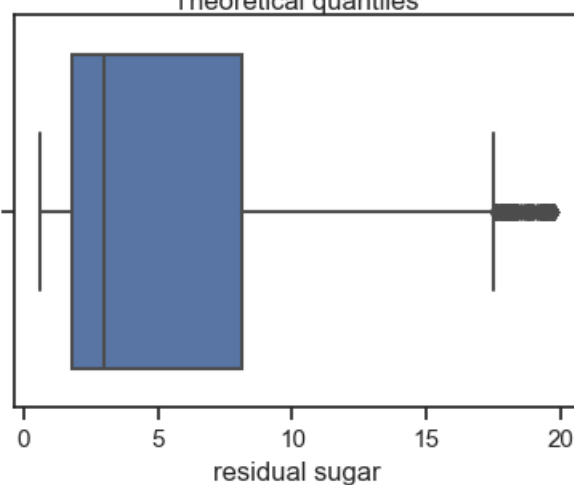
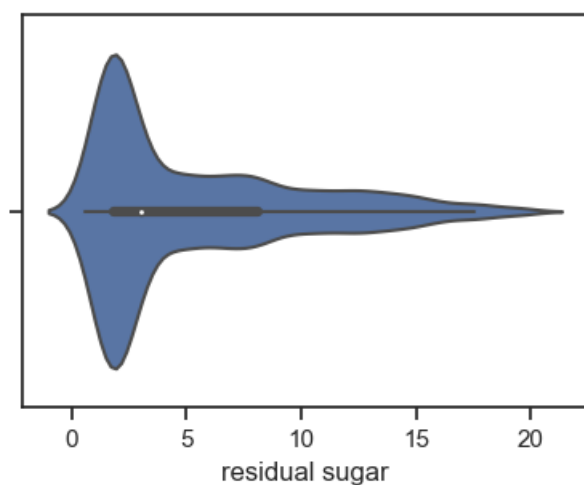
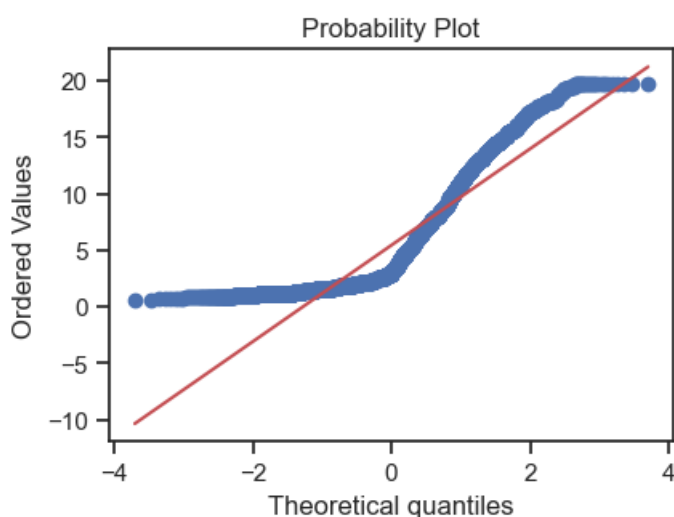
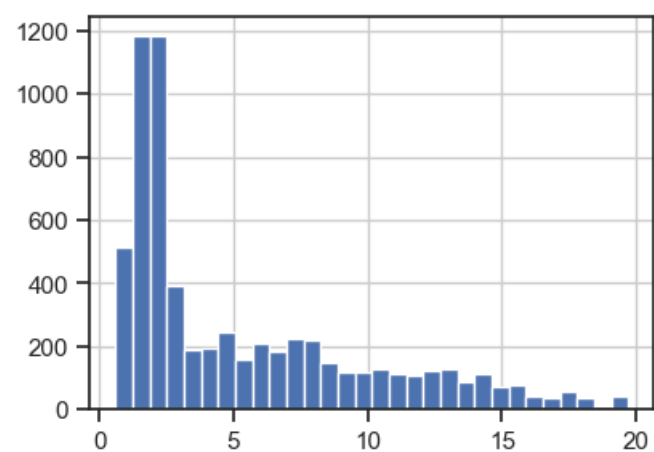


Пале-citric acid, метод-OutlierBoundaryType.IRQ

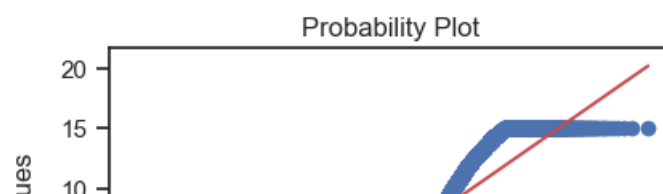


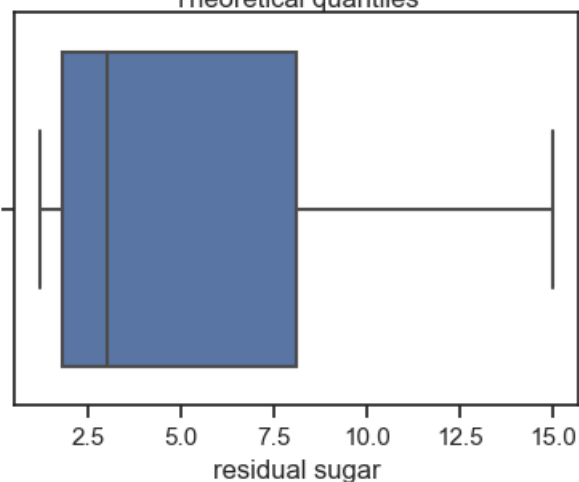
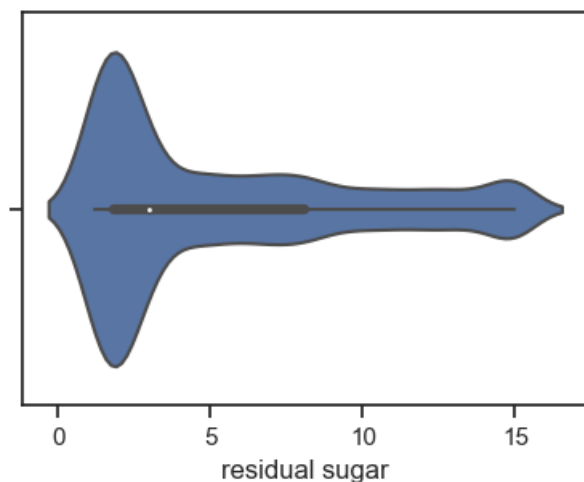
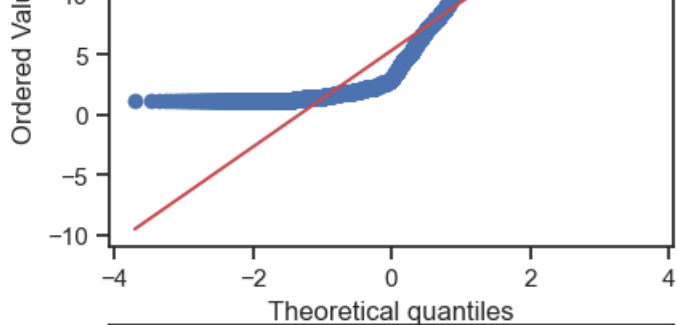
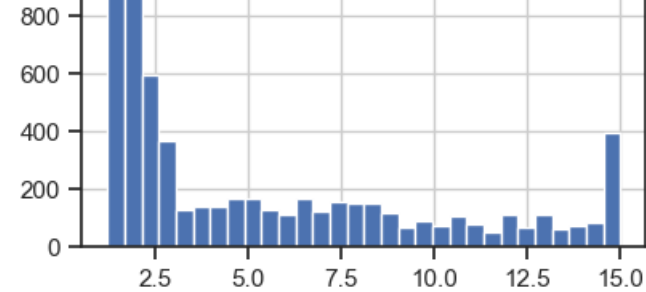


Поле-residual sugar, метод-OutlierBoundaryType.SIGMA

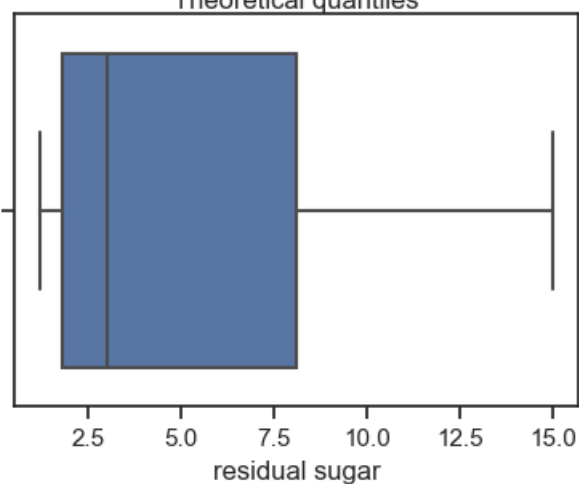
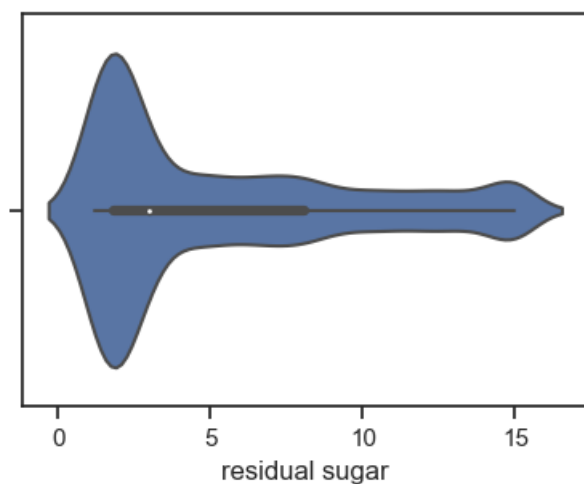
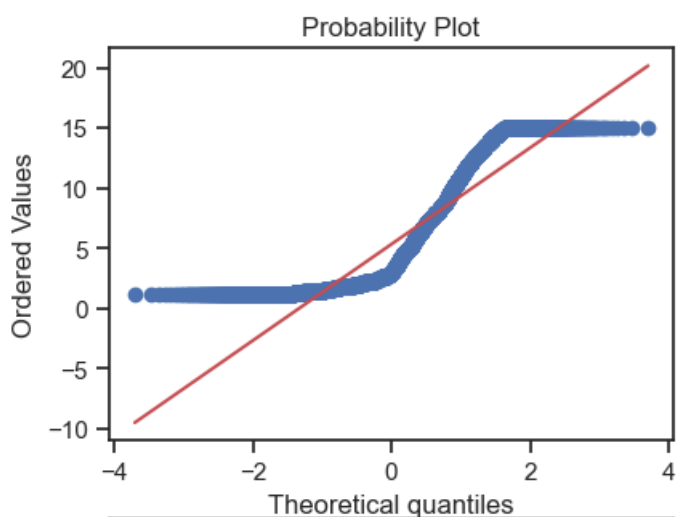
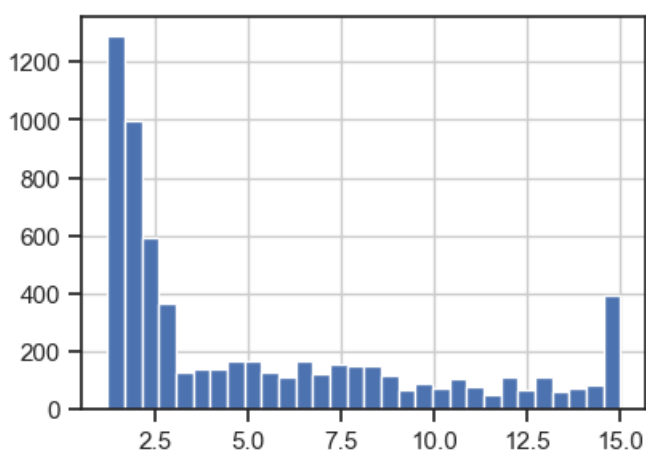


Поле-residual sugar, метод-OutlierBoundaryType.QUANTILE

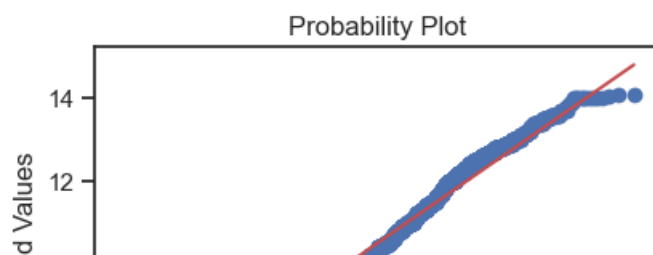
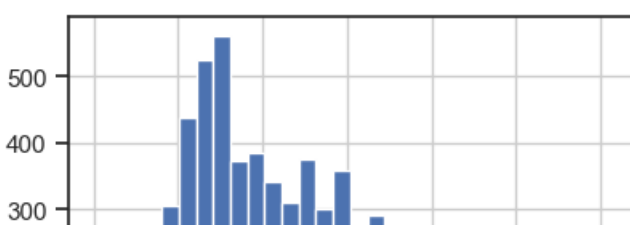


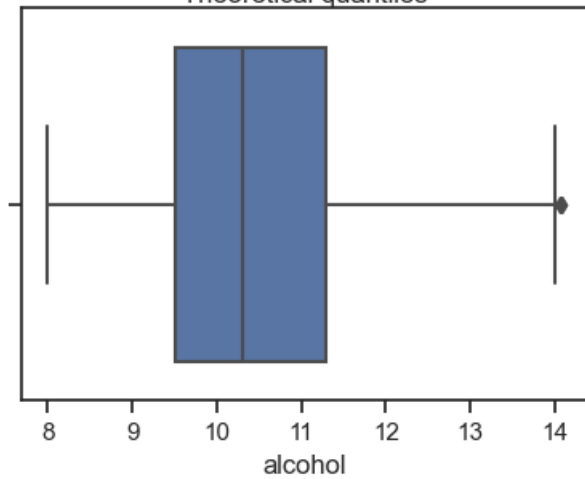
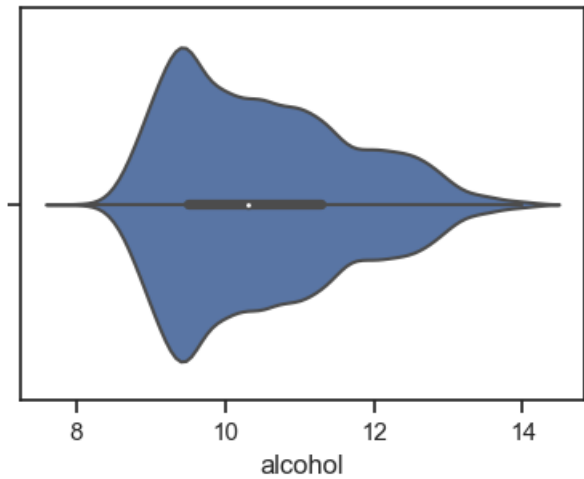
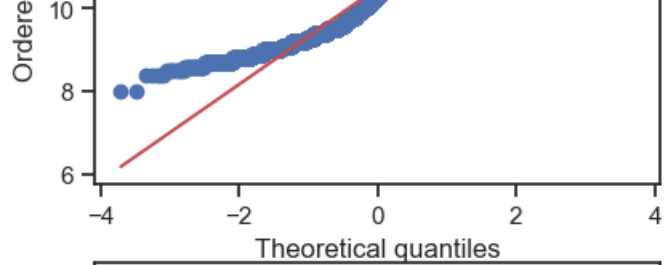
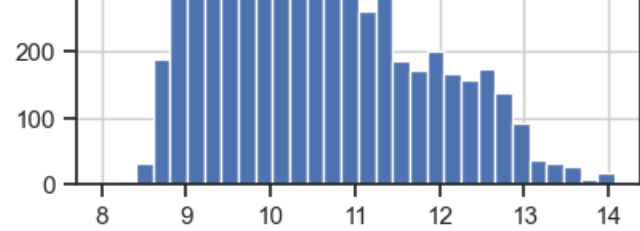


Поле-residual sugar, метод-OutlierBoundaryType.IRQ

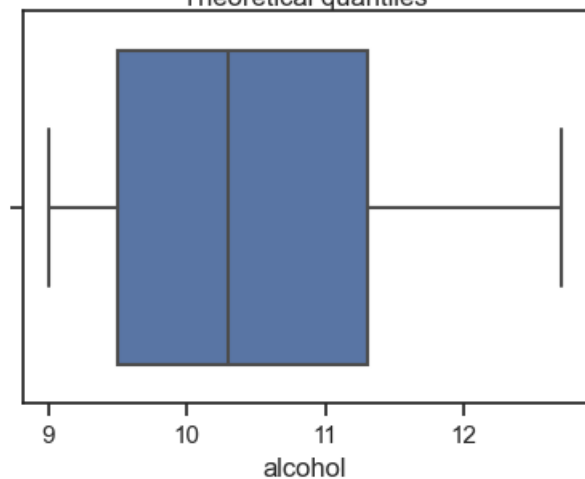
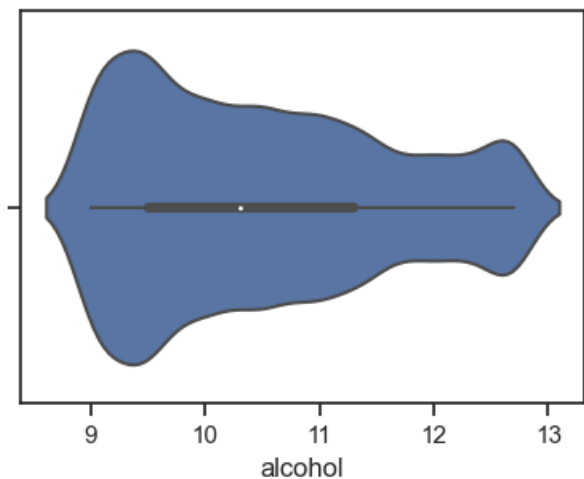
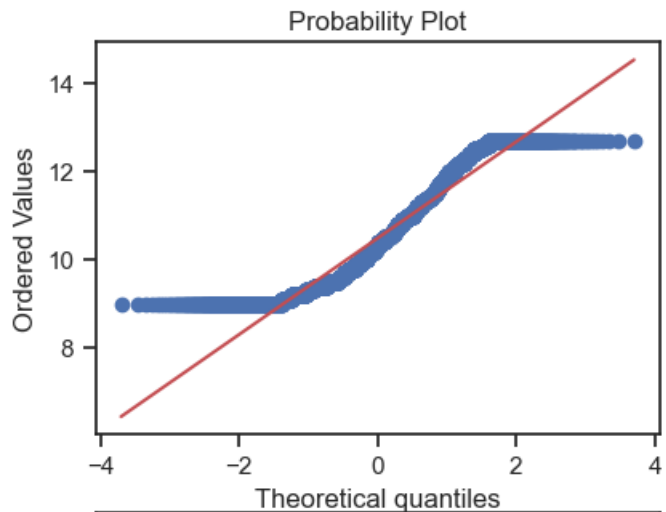
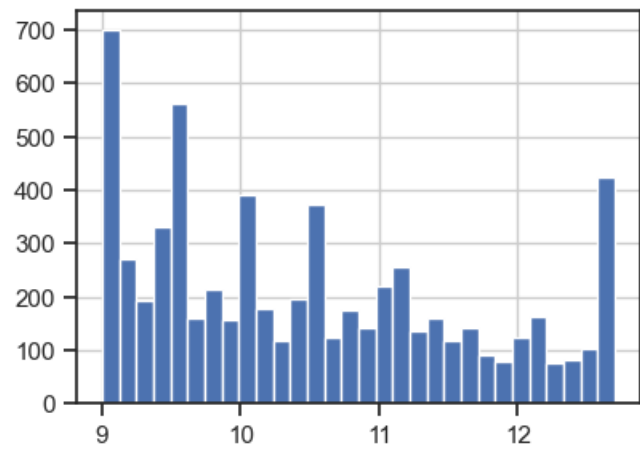


Поле-alcohol, метод-OutlierBoundaryType.SIGMA

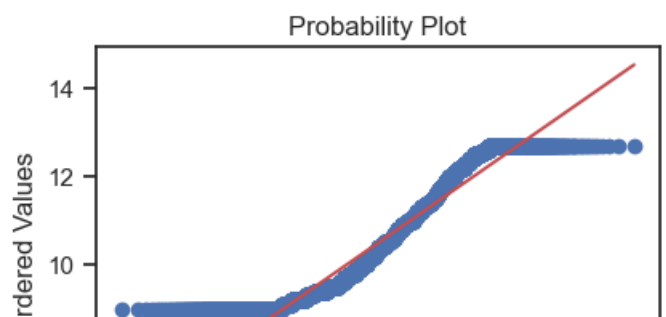
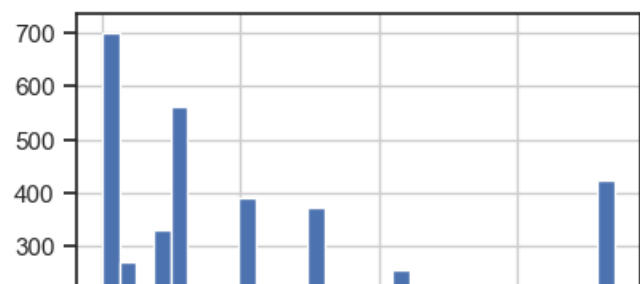


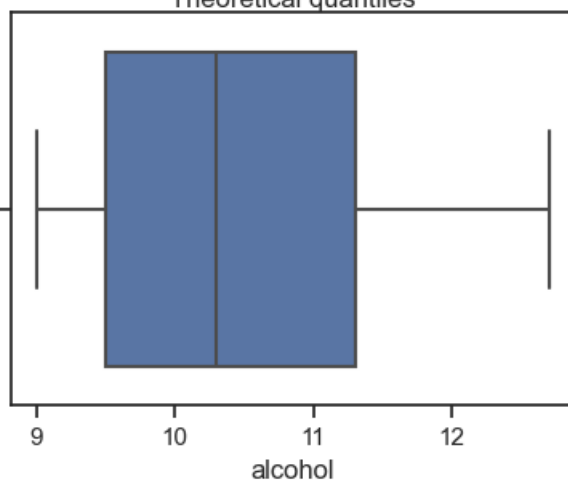
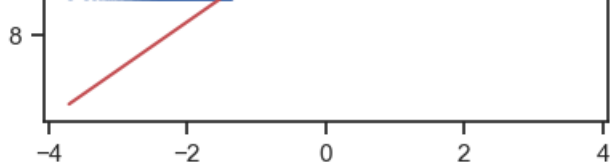
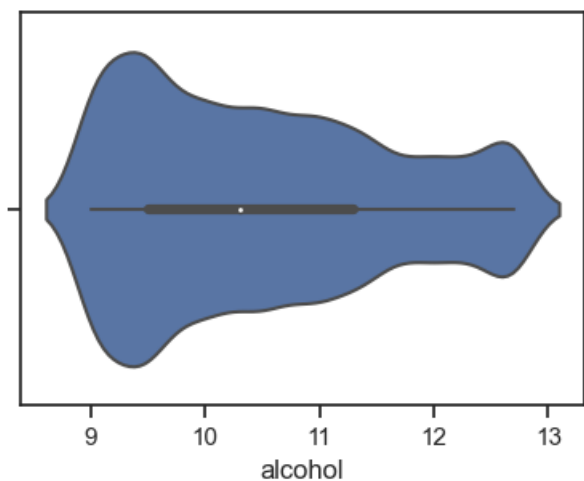
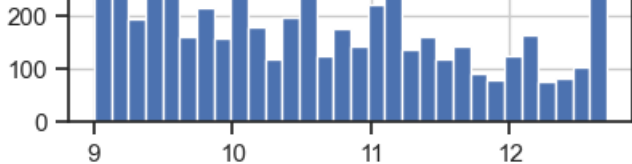


Поле-alcohol, метод-OutlierBoundaryType.QUANTILE

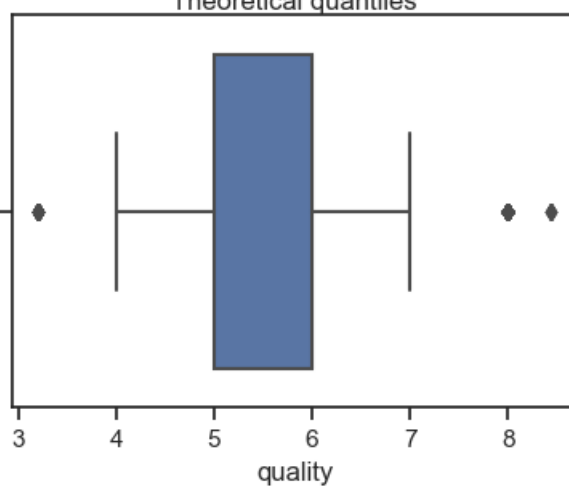
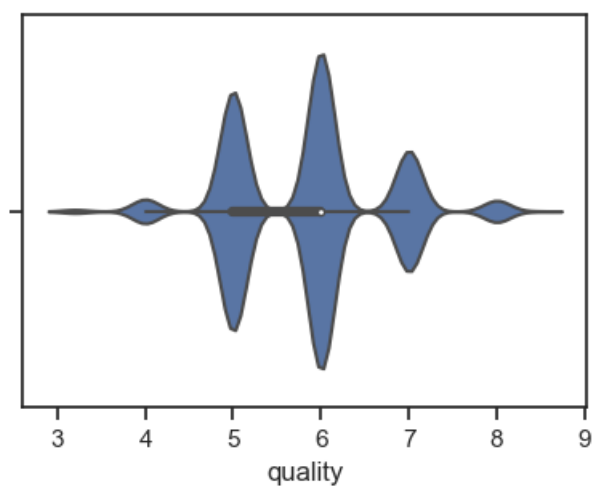
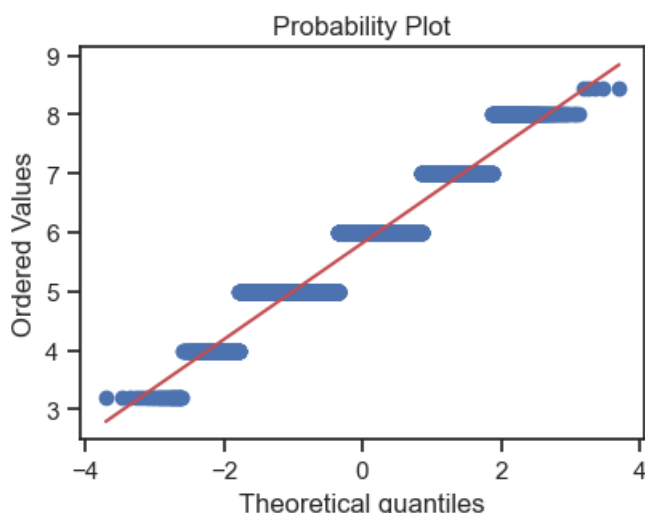
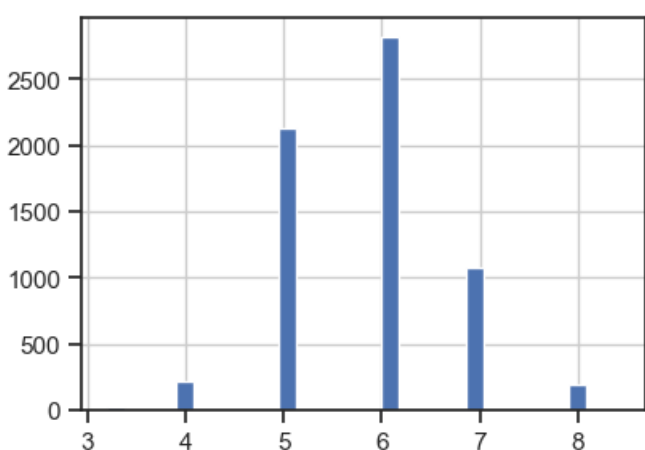


Поле-alcohol, метод-OutlierBoundaryType.IRQ

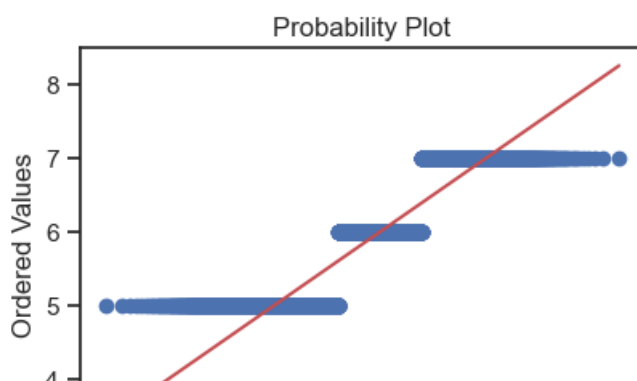
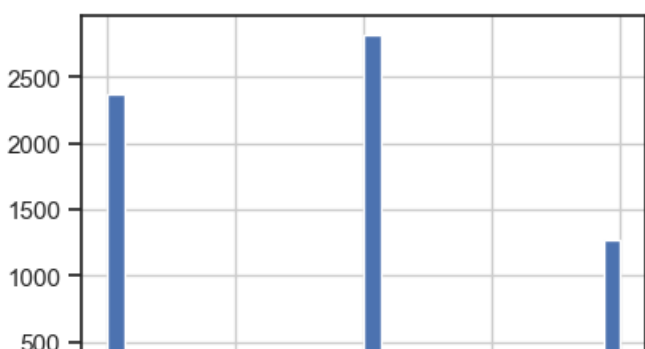


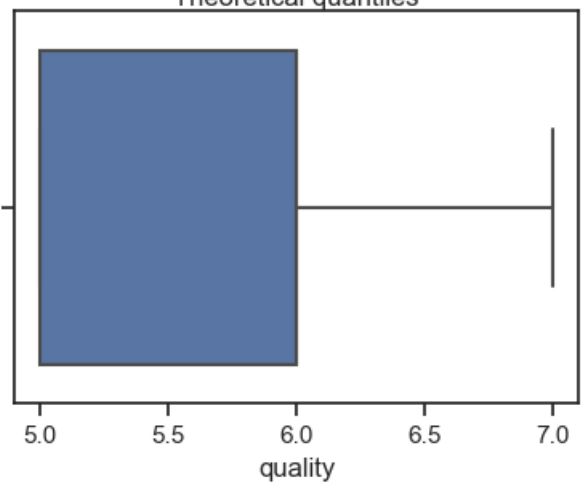
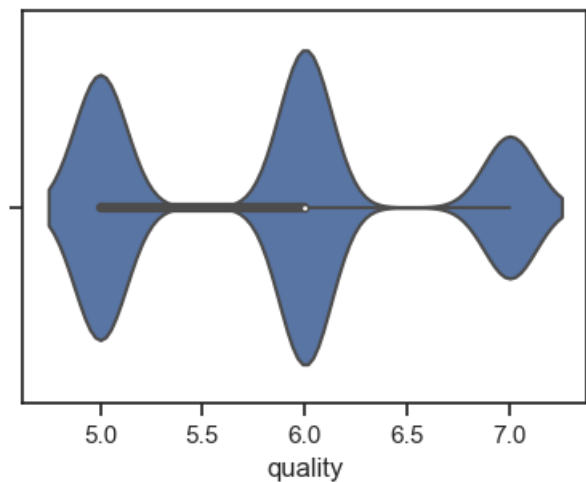
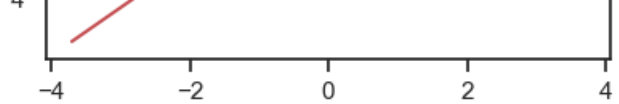
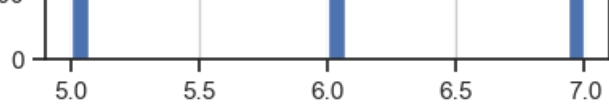


Поле-quality, метод-OutlierBoundaryType.SIGMA

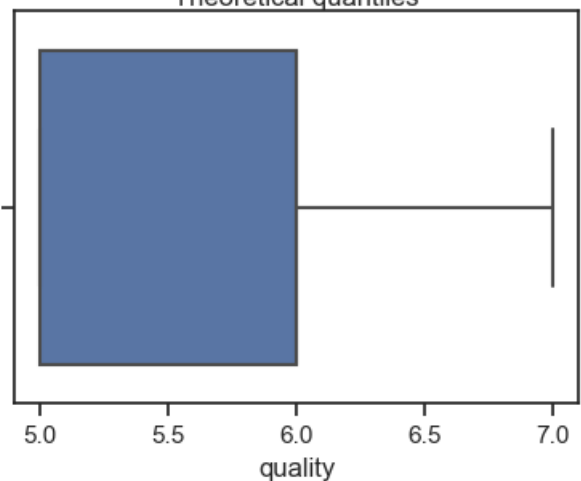
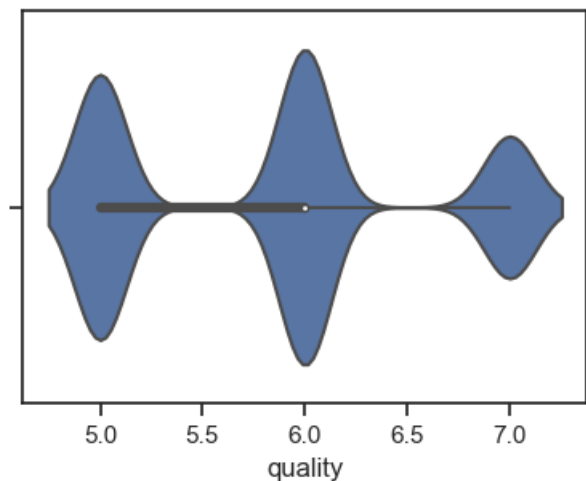
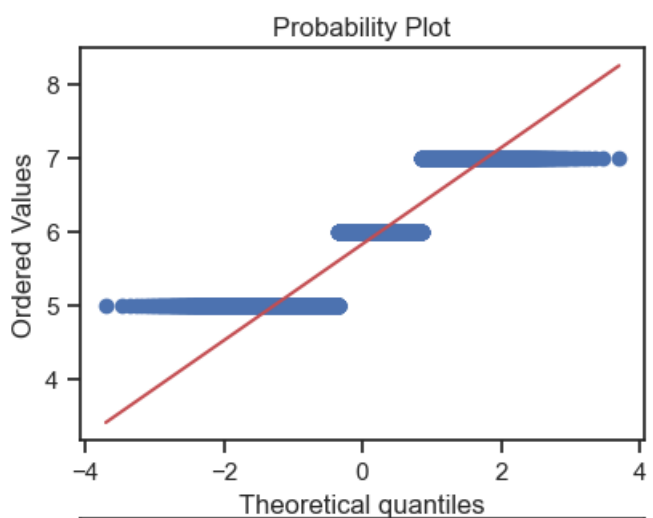
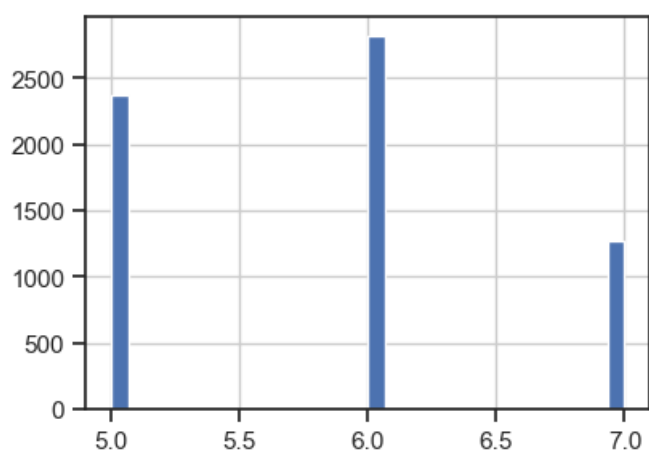


Поле-quality, метод-OutlierBoundaryType.QUANTILE





Поле-quality, метод-OutlierBoundaryType.IRQ



Обработка по крайней мере одного нестандартного признака

```
In [49]:from datetime import date
import matplotlib.dates as mpl_dates
timedata = pd.read_csv("DailyDelhiClimateTest.csv")
timedata
```

Out[49]:

	date	meantemp	humidity	wind_speed	meanpressure
0	2017-01-01	15.913043	85.869565	2.743478	59.000000
1	2017-01-02	18.500000	77.222222	2.894444	1018.277778
2	2017-01-03	17.111111	81.888889	4.016667	1018.333333
3	2017-01-04	18.700000	70.050000	4.545000	1015.700000
4	2017-01-05	18.388889	74.944444	3.300000	1014.333333
...
109	2017-04-20	34.500000	27.500000	5.562500	998.625000
110	2017-04-21	34.250000	39.375000	6.962500	999.875000
111	2017-04-22	32.900000	40.900000	8.890000	1001.600000
112	2017-04-23	32.875000	27.500000	9.962500	1002.125000
113	2017-04-24	32.000000	27.142857	12.157143	1004.142857

114 rows × 5 columns

```
In [50]:hdata = timedata
list(zip(hdata.columns, [i for i in hdata.dtypes]))

Out[50]:[('date', dtype('O')),
('meantemp', dtype('float64')),
('humidity', dtype('float64')),
('wind_speed', dtype('float64')),
('meanpressure', dtype('float64'))]

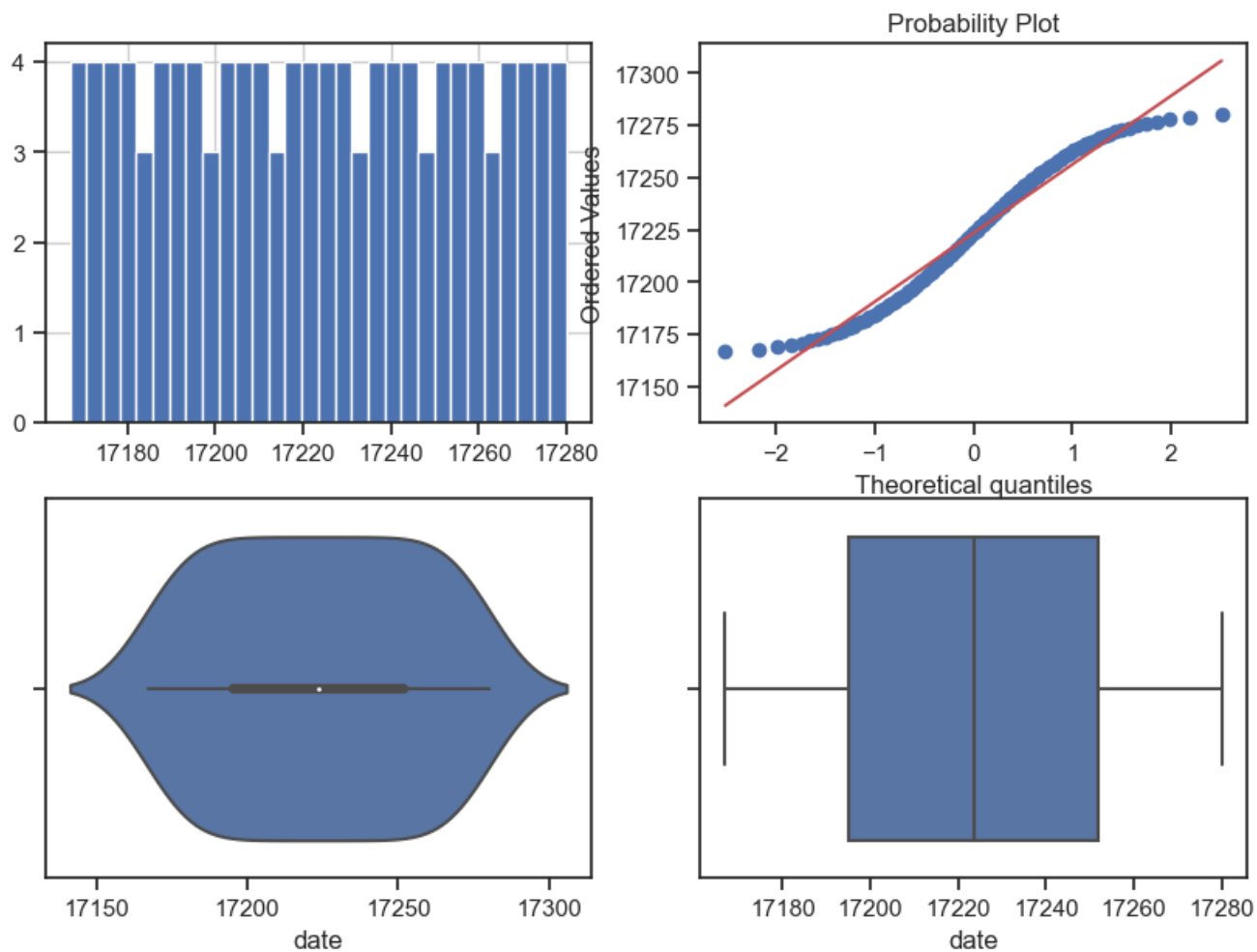
In [51]:# Колонки с пропусками
hcols_with_na = [c for c in hdata.columns if hdata[c].isnull().sum() > 0]
hcols_with_na
# Количество пропусков
[(c, hdata[c].isnull().sum()) for c in hcols_with_na]

Out[51]:[]

In [52]:timedata['date'] = pd.to_datetime(timedata['date'])
In [53]:type(timedata['date'])[0]

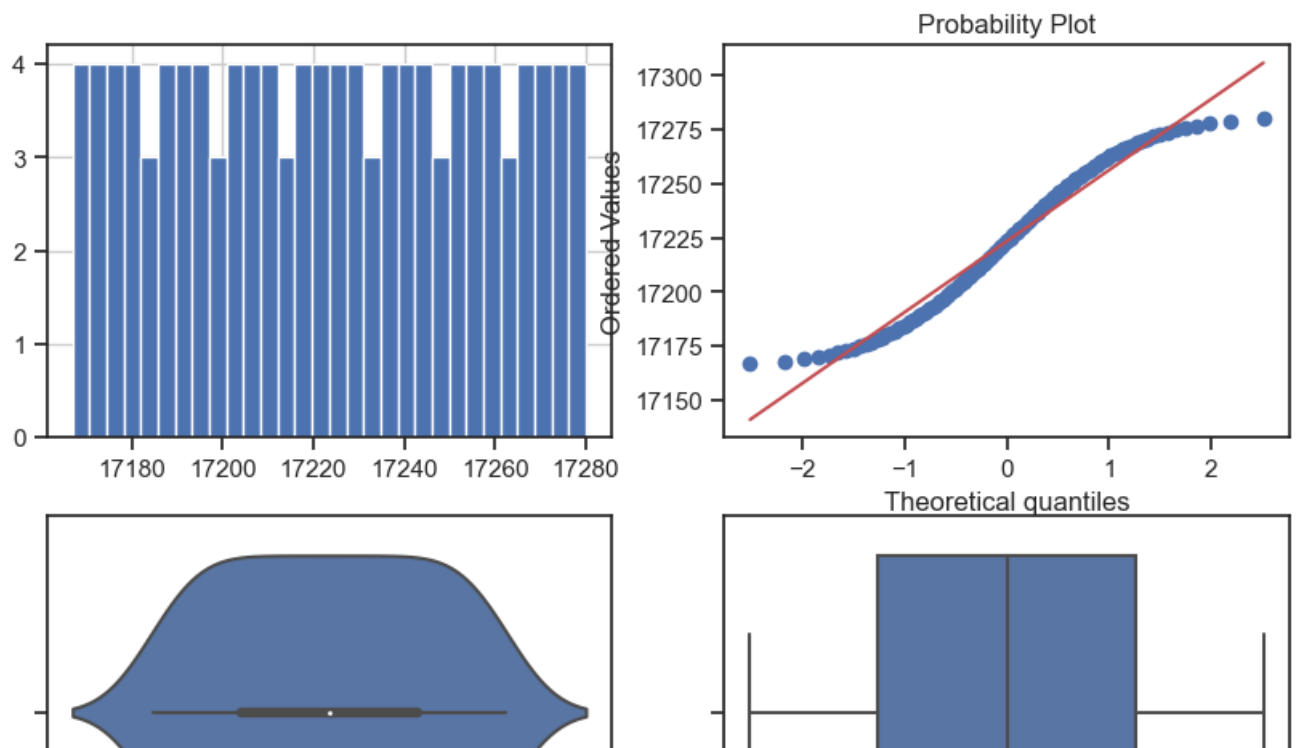
Out[53]:pandas._libs.tslibs.timestamps.Timestamp
In [54]:x_col_list_n = ['date']
In [55]:timedata.reset_index(inplace=True)
timedata['date']=timedata['date'].apply(mpl_dates.date2num)
timedata = timedata.astype(float)
In [56]:diagnostic_plots(timedata, 'date', 'date - original')
```

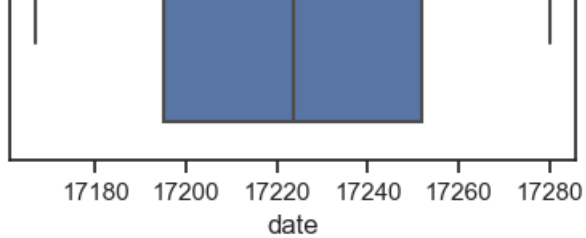
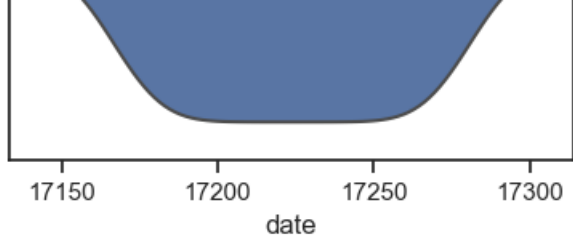
date - original



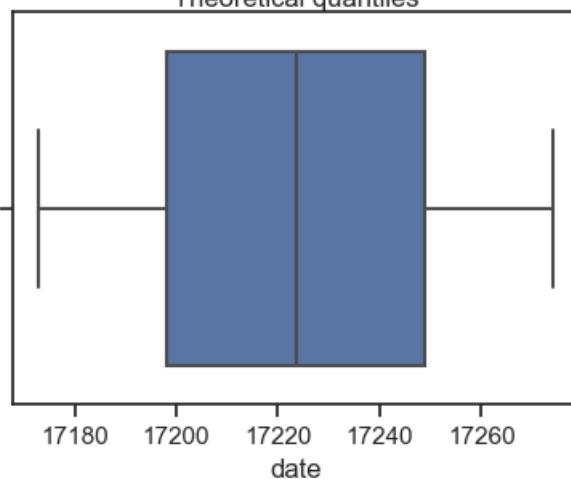
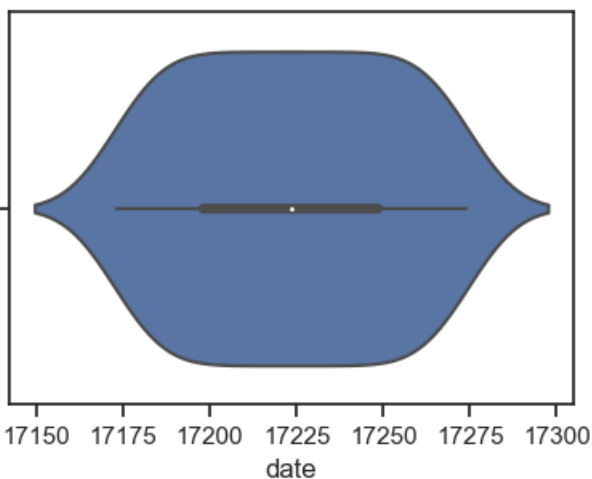
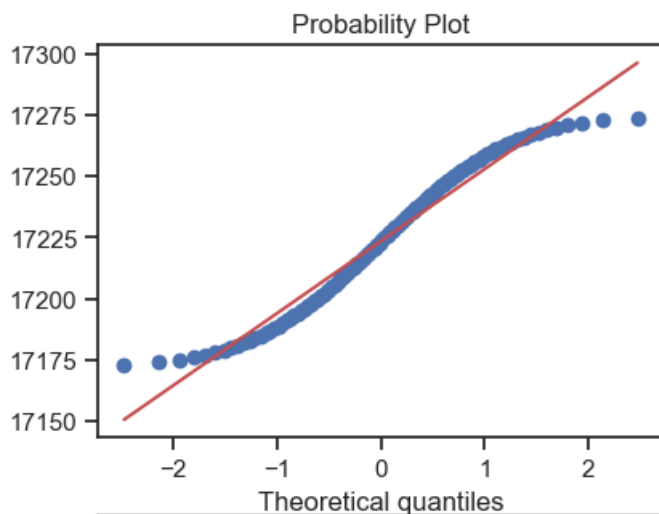
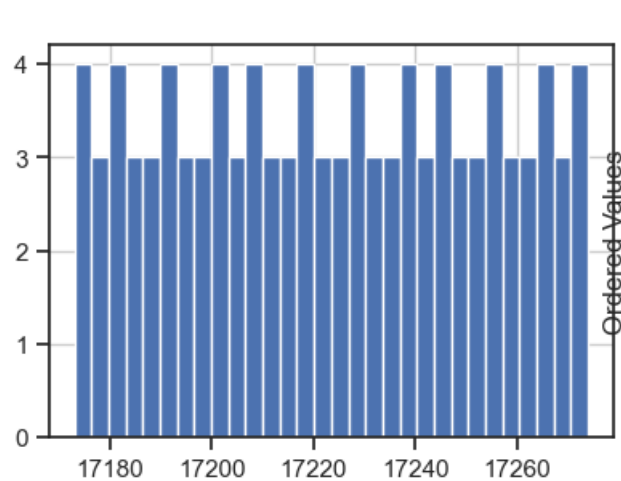
```
In [57]: for col in x_col_list_n:
         for obt in OutlierBoundaryType:
             # Вычисление верхней и нижней границы
             lower_boundary, upper_boundary = get_outlier_boundaries(timedata, col, obt)
             # Флаги для удаления выбросов
             outliers_temp = np.where(timedata[col] > upper_boundary, True,
                                     np.where(timedata[col] < lower_boundary, True, False))
             # Удаление данных на основе флага
             data_trimmed = timedata.loc[~(outliers_temp), ]
             title = 'Поле-{}, метод-{}, строк-{}'.format(col, obt, data_trimmed.shape[0])
             diagnostic_plots(data_trimmed, col, title)
```

Поле-date, метод-OutlierBoundaryType.SIGMA, строк-114

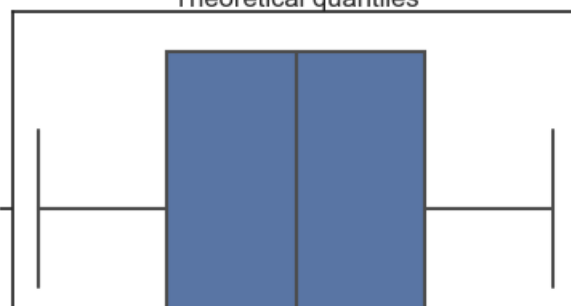
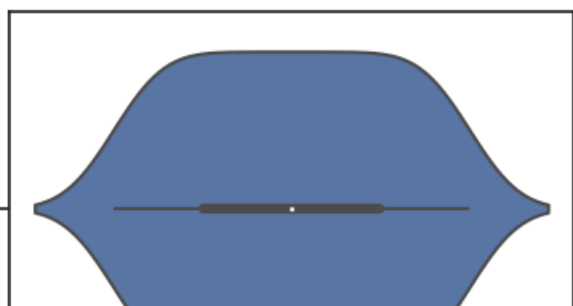
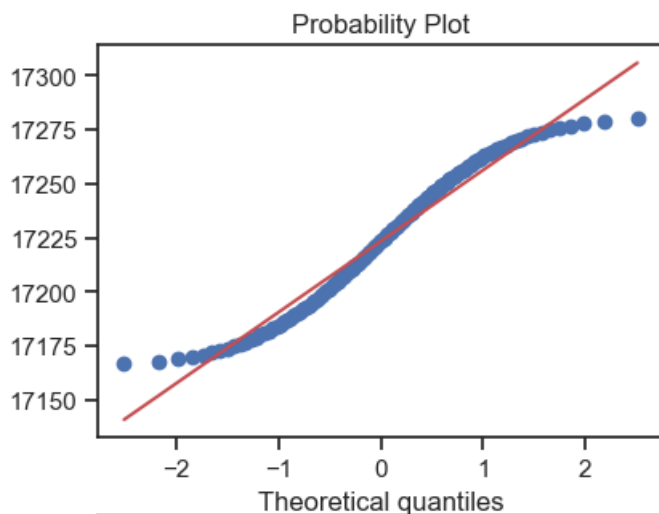
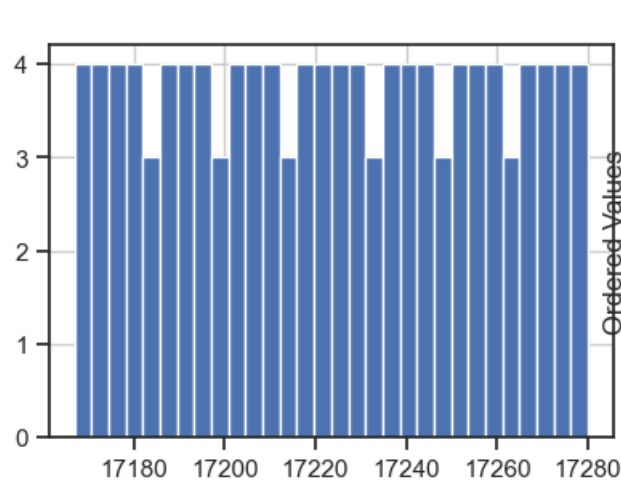


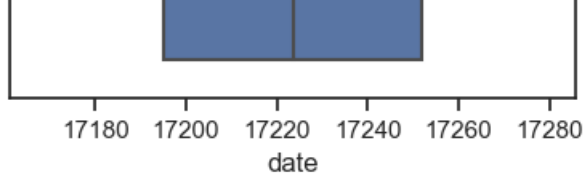
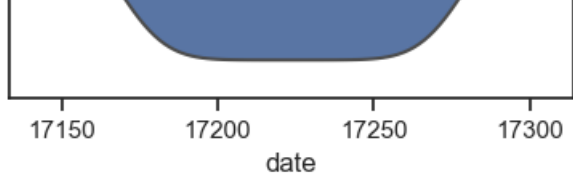


Поле-date, метод-OutlierBoundaryType.QUANTILE, строк-102



Поле-date, метод-OutlierBoundaryType.IRQ, строк-114





Отбор признаков

Методы фильтрации (filter methods)

```
In [58]:selector_1211 = VarianceThreshold(threshold=0.15)
selector_1211.fit(data)
# Значения дисперсий для каждого признака
selector_1211.variances_

Out[58]:array([3.49600967e+06, 1.85727591e-01, 1.68431767e+00, 2.71018852e-02,
                2.10949595e-02, 2.26241369e+01, 1.23012312e-03, 3.15326731e+02,
                3.19477751e+03, 9.00726891e-06, 2.58043973e-02, 2.21717714e-02,
                1.42333473e+00, 7.62510717e-01])

In [59]:# Константный и псевдоконстантный признаки удалены
selector_1211.transform(data)

Out[59]:array([[0, 0, 7.0, ..., 170.0, 8.8, 6],
               [1, 0, 6.3, ..., 132.0, 9.5, 6],
               [2, 0, 8.1, ..., 97.0, 10.1, 6],
               ...,
               [6494, 1, 6.3, ..., 40.0, 11.0, 6],
               [6495, 1, 5.9, ..., 44.0, 10.2, 5],
               [6496, 1, 6.0, ..., 42.0, 11.0, 6]], dtype=object)
```

```
In [60]:def get_duplicates(X):
        """
        Поиск дубликатов в колонках
        X - DataFrame
        """

        pairs = {}
        dups = []

        # Перебор всех колонок (внешний)
        for i in range(X.shape[1]):

            # текущая колонка
            feat_outer = X.columns[i]

            # если текущая колонка не является дублем
            if feat_outer not in dups:

                # создаем запись в словаре, колонка является ключом
                pairs[feat_outer] = []

                # Перебор оставшихся колонок (внутренний)
                for feat_inner in X.columns[i + 1:]:

                    # Если колонки идентичны
                    if X[feat_outer].equals(X[feat_inner]):

                        # добавление в словарь и список дубликатов
                        pairs[feat_outer].append(feat_inner)
                        dups.append(feat_inner)

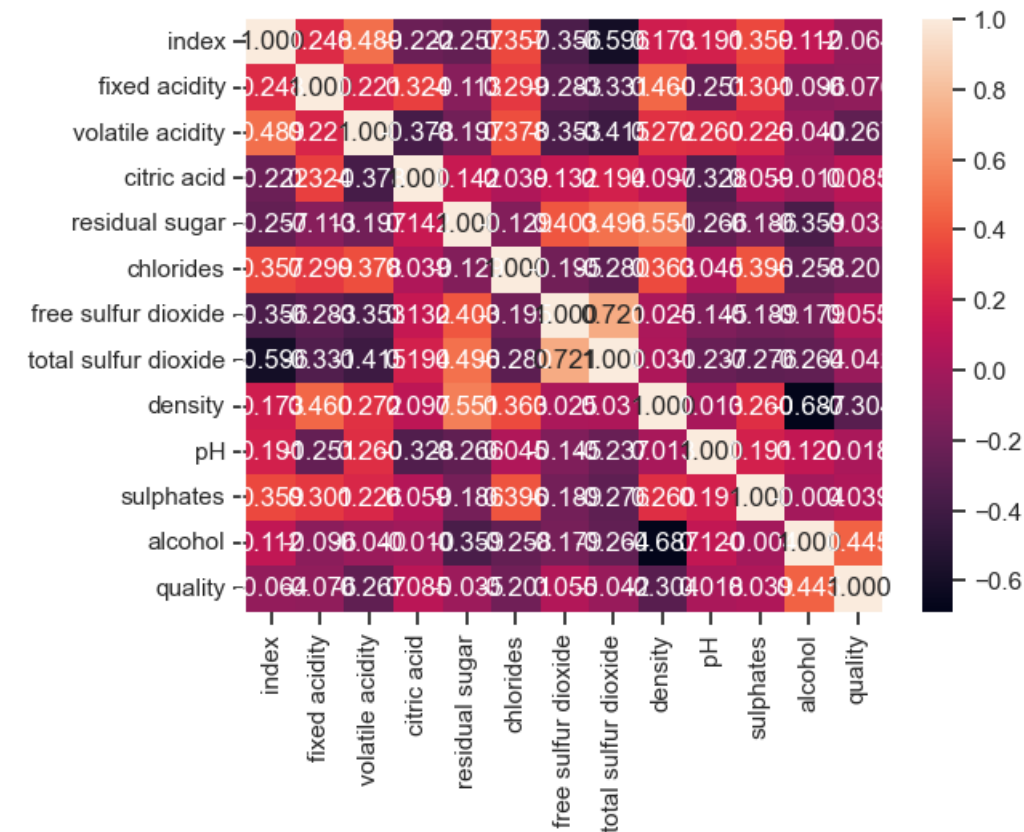
        return pairs
```

```
In [61]:get_duplicates(data)

Out[61]:{'index': [],
         'type': [],
         'fixed acidity': [],
         'volatile acidity': [],
         'citric acid': [],
         'residual sugar': [],
         'chlorides': [],
         'free sulfur dioxide': [],
         'total sulfur dioxide': [],
         'density': [],
         'pH': [],
         'sulphates': [],
         'alcohol': [],
         'quality': []}
```

```
In [62]:sns.heatmap(data.corr(), annot=True, fmt='.3f')
```


Out[62]:<AxesSubplot:>



In [63]:# Формирование DataFrame с сильными корреляциями

```
def make_corr_df(df, x):  
    cr = data.corr()  
    cr = cr.abs().unstack()  
    cr = cr.sort_values(ascending=False)  
    cr = cr[cr >= x]  
    cr = cr[cr < 1]  
    cr = pd.DataFrame(cr).reset_index()  
    cr.columns = ['f1', 'f2', 'corr']  
    return cr
```

In [64]:make_corr_df(data, 0.8)

Out[64]:

	f1	f2	corr
--	----	----	------

Корреляций 0.8 и выше нет

In [65]:make_corr_df(data, 0.5)

Out[65]:

	f1	f2	corr
0	total sulfur dioxide	free sulfur dioxide	0.721476
1	free sulfur dioxide	total sulfur dioxide	0.721476
2	alcohol	density	0.687432
3	density	alcohol	0.687432
4	total sulfur dioxide	index	0.596102
5	index	total sulfur dioxide	0.596102
6	density	residual sugar	0.551494
7	residual sugar	density	0.551494

In [66]:# Обнаружение групп коррелирующих признаков

```
def corr_groups(cr):  
    grouped_feature_list = []  
    correlated_groups = []  
  
    for feature in cr['f1'].unique():  
        if feature not in grouped_feature_list:  
            # находим коррелирующие признаки  
            correlated_block = cr[cr['f1'] == feature]  
            cur_dups = list(correlated_block['f2'].unique()) + [feature]  
            grouped_feature_list = grouped_feature_list + cur_dups  
            correlated_groups.append(cur_dups)  
    return correlated_groups
```

In [67]:# Группы коррелирующих признаков

```
corr_groups(make_corr_df(data, 0.5))
```

```
Out[67]:[['free sulfur dioxide', 'index', 'total sulfur dioxide'],  
         ['density', 'alcohol'],  
         ['density', 'residual sugar']]
```

Методы обертывания (wrapper methods)

```
In [68]:from mlxtend.feature_selection import ExhaustiveFeatureSelector as EFS
```

```
    knn = KNeighborsClassifier(n_neighbors=3)
```

```
In [69]:efs1 = EFS(knn,  
                  min_features=2,  
                  max_features=4,  
                  scoring='accuracy',  
                  print_progress=True,  
                  cv=5)
```

```
    x_col_all_not = ['type', 'fixed acidity', 'volatile acidity', 'citric acid', 'residual sugar', 'chlorides', 'free sulfur dioxide',  
                    'total sulfur dioxide', 'density', 'pH', 'sulphates', 'alcohol', 'quality']
```

```
    efs1 = efs1.fit(X_test, y_test, custom_feature_names=x_col_all)
```

```
    print('Best accuracy score: %.2f' % efs1.best_score_)  
    print('Best subset (indices):', efs1.best_idx_)  
    print('Best subset (corresponding names):', efs1.best_feature_names_)
```

c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\sklearn\model_selection_split.py:680: UserWarning: The least populated class in y has only 1 members, which is less than n_splits=5.

UserWarning,

c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\sklearn\model_selection_validation.py:372: FitFailedWarning: 5 fits failed out of a total of 5.

The score on these train-test partitions for these parameters will be set to nan.

If these failures are not expected, you can try to debug them by setting error_score='raise'.

Below are more details about the failures:

5 fits failed with the following error:

Traceback (most recent call last):

```
File "c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\sklearn\model_selection\_validation.py", line 680, in _fit_and_score  
    estimator.fit(X_train, y_train, **fit_params)
```

TypeError: fit() got an unexpected keyword argument 'custom_feature_names'

```
warnings.warn(some_fits_failed_message, FitFailedWarning)
```

c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\sklearn\model_selection_split.py:680: UserWarning: The least populated class in y has only 1 members, which is less than n_splits=5.

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```
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Features: 1079/1079
-----
UnboundLocalError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_12412\2828930625.py in <module>
     9     'total sulfur dioxide','density','pH','sulphates','alcohol','quality']
    10
--> 11 efs1 = efs1.fit(X_test, y_test, custom_feature_names=x_col_all)
    12
    13 print('Best accuracy score: %.2f' % efs1.best_score_)

c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\mlxtend\feature_selection\exhaustive_feature_selector.py in fit(self, X, y,
groups, **fit_params)
    480     else:
    481         self.fitted = True # the completion of sequential selection process.
--> 482         self.finalize_fit()
    483
    484     return self

c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\mlxtend\feature_selection\exhaustive_feature_selector.py in finalize_fit(s
elf)
    491         max_score = self.subsets_[c]["avg_score"]
    492
--> 493         self.best_idx_ = self.subsets_[best_subset]["feature_idx"]
    494         self.best_score_ = max_score
    495         self.subsets_, self.best_feature_names_ = _get_featurenames(

UnboundLocalError: local variable 'best_subset' referenced before assignment
In [70]: efs2 = EFS(knn,

```

```
min_features=1,  
max_features=2,  
scoring='accuracy',  
print_progress=True,  
cv=5)
```

```
efs2 = efs2.fit(X_test, y_test, custom_feature_names=x_col_all)
```

```
print('Best accuracy score: %.2f' % efs2.best_score_)  
print('Best subset (indices):', efs2.best_idx_)  
print('Best subset (corresponding names):', efs2.best_feature_names_)
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c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\sklearn\model_selection\_split.py:680: UserWarning: The least populated class in y
has only 1 members, which is less than n_splits=5.
  UserWarning,
c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\sklearn\model_selection\_validation.py:372: FitFailedWarning:
5 fits failed out of a total of 5.
The score on these train-test partitions for these parameters will be set to nan.
If these failures are not expected, you can try to debug them by setting error_score='raise'.
```

Below are more details about the failures:

```
-----
5 fits failed with the following error:
Traceback (most recent call last):
  File "c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\sklearn\model_selection\_validation.py", line 680, in _fit_and_score
    estimator.fit(X_train, y_train, **fit_params)
TypeError: fit() got an unexpected keyword argument 'custom_feature_names'

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Features: 91/91
```

Traceback (most recent call last):

UnboundLocalError

Traceback (most recent call last)

~\AppData\Local\Temp\ipykernel_12412\4055755428.py in <module>

```
6     cv=5)
7
----> 8 efs2 = efs2.fit(X_test, y_test, custom_feature_names=x_col_all)
9
10 print('Best accuracy score: %.2f' % efs2.best_score_)
```

c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\mlxtend\feature_selection\exhaustive_feature_selector.py in fit(self, X, y, groups, **fit_params)

```
480     else:
481         self.fitted = True # the completion of sequential selection process.
--> 482         self.finalize_fit()
483
484     return self
```

c:\users\aleka\appdata\local\programs\python\python37\lib\site-packages\mlxtend\feature_selection\exhaustive_feature_selector.py in finalize_fit(self)

```
491         max_score = self.subsets_[c][["avg_score"]]
492
--> 493         self.best_idx_ = self.subsets_[best_subset][["feature_idx"]]
494         self.best_score_ = max_score
495         self.subsets_, self.best_feature_names_ = _get_featurenames(
```

UnboundLocalError: local variable 'best_subset' referenced before assignment

Методы вложений (embedded methods)

In [71]:# Используем L1-регуляризацию

```
e_lr1 = LogisticRegression(C=1000, solver='liblinear', penalty='l1', max_iter=500, random_state=1)
e_lr1.fit(X_test, y_test)
# Коэффициенты регрессии
e_lr1.coef_
```

Out[71]:array([[2.32506550e-03, -8.16523994e+00, -1.22362024e+00,
 4.14141439e+01, -1.84825018e+01, 2.77013478e-01,
 3.30999166e+01, 2.47032003e-01, -1.10879716e-02,
 4.12086540e+01, -4.01440992e+01, 8.41668480e+00,
 3.35241750e-01],
 [-1.94788921e-04, -2.45217410e+00, 2.27830056e-01,
 4.92054233e+00, -9.39619069e-02, -6.23138397e-02,
 3.86990033e+00, -4.17410761e-02, -7.85615650e-04,
 -2.11508808e-02, 3.97256026e-01, -2.53229535e+00,
 -4.35807218e-01],
 [4.20451681e-05, 2.45643850e-01, 5.31119468e-02,
 1.98084911e+00, -1.77822918e-01, -9.90438590e-02,
 1.30190982e+00, -2.05898698e-02, 9.55411903e-03,
 3.52360119e+00, 5.72109899e-01, -2.34145833e+00,
 -9.23481211e-01],
 [1.61341703e-04, 1.64867713e-02, -6.90542484e-02,
 -2.24771504e+00, 6.18034718e-01, 4.00985358e-02,
 -1.21999827e+00, 9.75380252e-03, -2.75372125e-03,
 -5.61698865e-01, 4.83456991e-02, 6.50684669e-01,
 5.85780976e-02],
 [-1.80470524e-04, 9.38279663e-01, 5.66913608e-02,
 -3.69185927e+00, -1.09456117e+00, 6.54295708e-02,
 -8.19584792e+00, 8.21485821e-03, -4.87806663e-03,
 -5.33828040e+00, -2.48075851e-02, 1.42339141e+00,
 9.10637419e-01],
 [-3.76957977e-04, 1.91611173e-01, 7.09744374e-02,
 -2.23730750e+00, -8.37846239e-01, 1.52289027e-01,
 -8.83428656e+00, 2.19154629e-02, -8.67295961e-03,
 -5.69435498e+00, -7.33551787e-01, 2.26140081e+00,
 8.71639726e-01],
 [-5.18217665e-03, -3.55747350e+00, -1.79505549e-01,
 2.95049111e+01, -1.29430514e+01, -7.61783569e+00,
 -3.38786355e+02, 1.53884331e-01, -1.60429179e-01,
 -6.28836501e+00, 4.97530326e+00, 2.26890677e+01,
 1.11461413e+00]])

In [72]:# Все 12 признаков являются "хорошими"

```
sel_e_lr1 = SelectFromModel(e_lr1)
sel_e_lr1.fit(X_test, y_test)
sel_e_lr1.get_support()
```

Out[72]:array([True, True, True, True, True, True, True, True, True,
 True, True, True, True])

In [73]:e_lr2 = LinearSVC(C=0.01, penalty='l1', max_iter=2000, dual=False)

```
e_lr2.fit(X_test, y_test)
# Коэффициенты регрессии
```

```
e_lr2.coef_
```

```
Out[73]:array([[ -4.24324348e-05,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00,  5.22808095e-03, -2.72431956e-03,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                -7.70458986e-02],
               [ -4.81356228e-05,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00,  0.00000000e+00, -1.78172162e-03,
                0.00000000e+00, -5.81917784e-03, -2.64946957e-04,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                -5.47697472e-02],
               [ 6.87551018e-05,  0.00000000e+00,  6.32054212e-02,
                0.00000000e+00,  0.00000000e+00, -2.23033673e-02,
                0.00000000e+00, -9.12884497e-03,  4.74464713e-03,
                0.00000000e+00,  2.33277624e-01,  0.00000000e+00,
                -1.84073776e-01],
               [ 2.28183039e-05,  0.00000000e+00, -3.83749832e-02,
                0.00000000e+00,  0.00000000e+00,  1.41777268e-02,
                0.00000000e+00,  6.36028268e-03, -1.76754887e-03,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00],
               [-7.45029775e-05,  0.00000000e+00, -6.42674920e-02,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00,  3.66932305e-03, -3.87180315e-03,
                0.00000000e+00, -1.79723609e-01,  0.00000000e+00,
                9.21380817e-02],
               [-6.33167685e-05,  0.00000000e+00, -5.70912777e-02,
                0.00000000e+00,  0.00000000e+00,  3.45448361e-03,
                0.00000000e+00,  2.42005834e-03, -2.71045253e-03,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                -1.06371893e-02],
               [-3.01048234e-04,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00,  0.00000000e+00, -9.36946307e-03,
                0.00000000e+00,  0.00000000e+00,  0.00000000e+00,
                0.00000000e+00]])
```

```
In [74]:# Признаки 1,3,4,6,9,11 исключены
```

```
sel_e_lr2 = SelectFromModel(e_lr2)
sel_e_lr2.fit(X_test, y_test)
sel_e_lr2.get_support()
```

```
Out[74]:array([ True, False,  True, False, False,  True, False,  True,  True,
                False,  True, False,  True])
```

```
In [75]:# Используем L1-регуляризацию
```

```
e_ls1 = Lasso(random_state=1)
e_ls1.fit(X_test, y_test)
# Коэффициенты регрессии
list(zip(x_col_all, e_ls1.coef_))
```

```
Out[75]:[('type', -4.05281522319424e-05),
          ('fixed acidity', -0.0),
          ('volatile acidity', -0.0),
          ('citric acid', -0.0),
          ('residual sugar', 0.0),
          ('chlorides', 0.0),
          ('free sulfur dioxide', -0.0),
          ('total sulfur dioxide', 0.002751714205935953),
          ('density', -0.0017997923625971046),
          ('pH', -0.0),
          ('sulphates', -0.0),
          ('alcohol', 0.0),
          ('quality', 0.0)]
```

```
In [76]:sel_e_ls1 = SelectFromModel(e_ls1)
```

```
sel_e_ls1.fit(X_test, y_test)
list(zip(x_col_all, sel_e_ls1.get_support()))
```

```
Out[76]:[('type', True),
          ('fixed acidity', False),
          ('volatile acidity', False),
          ('citric acid', False),
          ('residual sugar', False),
          ('chlorides', False),
          ('free sulfur dioxide', False),
          ('total sulfur dioxide', True),
          ('density', True),
          ('pH', False),
          ('sulphates', False),
          ('alcohol', False),
          ('quality', False)]
```