

features extracted
training set and test set ready
training set: (2380, 406)
test set: (1047, 406)

classifier result

activity 1.0
sensitivity: 99.89539748953975
specificity: 100.0
auc: 1.0

activity 2.0
sensitivity: 100.0
specificity: 98.91304347826087
auc: 1.0

activity 3.0
sensitivity: 100.0
specificity: 100.0
auc: 1.0

activity 4.0
sensitivity: 99.68553459119497
specificity: 100.0
auc: 1.0

activity 5.0
sensitivity: 100.0
specificity: 96.73913043478261
auc: 1.0

activity 6.0
sensitivity: 99.58115183246073
specificity: 100.0
auc: 0.9998804916913271

activity 7.0
sensitivity: 100.0
specificity: 100.0
auc: 0.9999999999999999

activity 8.0
sensitivity: 100.0
specificity: 93.47826086956522
auc: 0.9997609833826543

activity 9.0
sensitivity: 99.79057591623037
specificity: 100.0
auc: 0.9999772365126338

activity 10.0
sensitivity: 95.39267015706807
specificity: 100.0
auc: 0.9952765763715001

activity 11.0
sensitivity: 100.0
specificity: 51.08695652173913

auc: 0.9966594582290007

activity 12.0
sensitivity: 99.9015748031496
specificity: 100.0
auc: 0.9998729997459994

f1_score 94.45277056453352
accuracy 94.7468958930277
micro-average ROC AUC: 0.9986302794448869
macro-average ROC AUC: 0.9993028305674463

/usr/lib/python3.7/site-packages/matplotlib/cbook/__init__.py:424: MatplotlibDeprecationWarning:
Passing one of 'on', 'true', 'off', 'false' as a boolean is deprecated; use an actual boolean (True/False) instead.
warn_deprecated("2.2", "Passing one of 'on', 'true', 'off', 'false' as a "

Out[3]:

<matplotlib.axes._subplots.AxesSubplot at 0x7f6c54569828>

