```
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:      99.79057591623037
specificity:      100.0
auc:      0.9998748008194855
------------------------------------------------------
activity  7.0
sensitivity:      100.0
specificity:      100.0
auc:      1.0
------------------------------------------------------
activity  8.0
sensitivity:      100.0
specificity:      95.65217391304348
auc:      0.9998065103573868
------------------------------------------------------
activity  9.0
sensitivity:      99.79057591623037
specificity:      100.0
auc:      0.9999772365126337
------------------------------------------------------
activity  10.0
sensitivity:      95.28795811518324
specificity:      100.0
auc:      0.9938538584111086
------------------------------------------------------
activity  11.0
sensitivity:      100.0
specificity:      51.08695652173913
auc:      0.995874179148646
------------------------------------------------------
activity  12.0
sensitivity:      99.9015748031496
specificity:      96.7741935483871
```

```
auc:       0.9998729997459994
--------------------------------------------------
f1_score  94.5666889489301
accuracy  94.84240687679083
micro-average ROC AUC:   0.9985595812477366
macro-average ROC AUC:   0.9991209295128393

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

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f769cf23ef0>
```


Confusion Matrix

ROC Curves