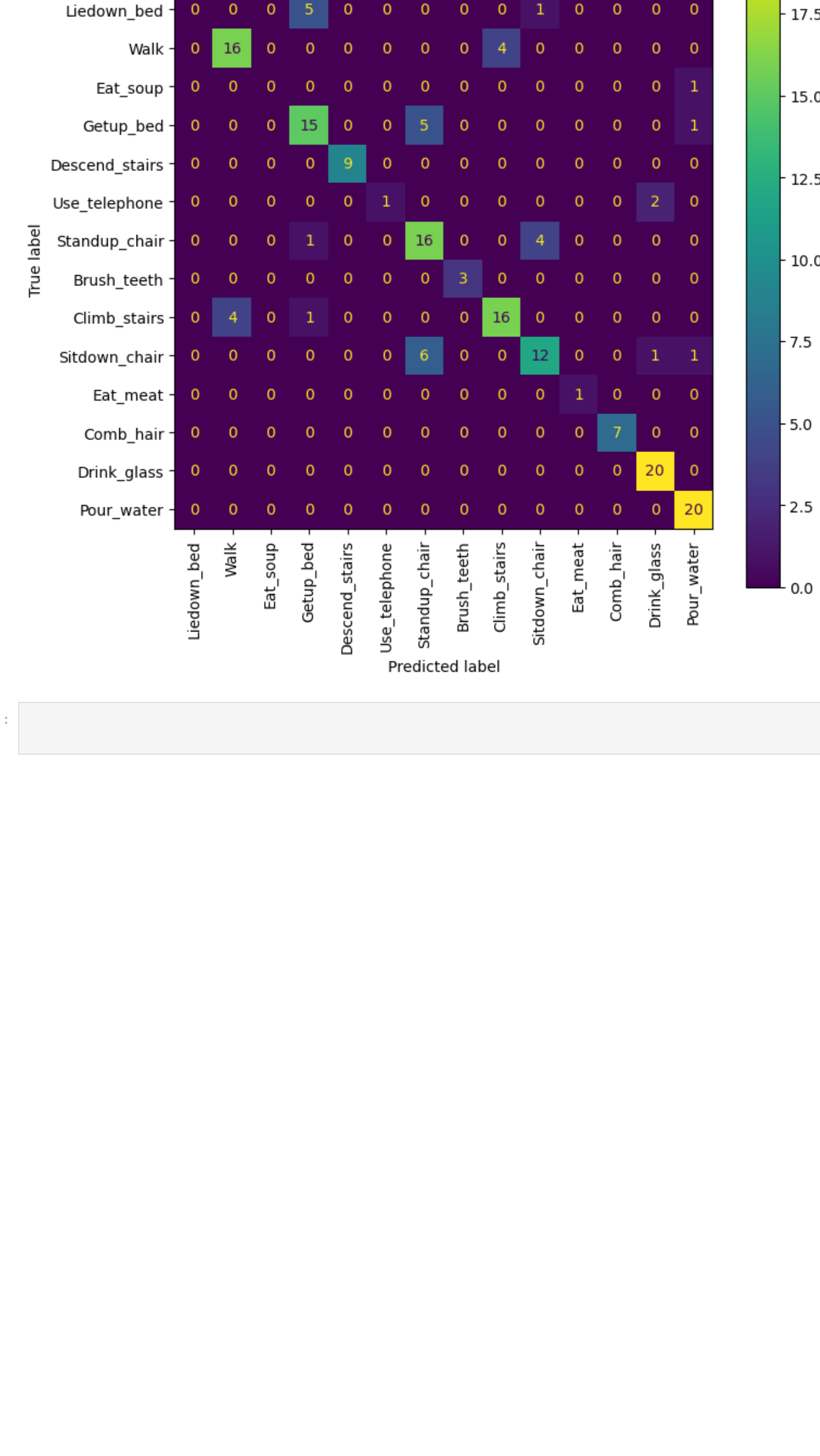



```
[55]: if perform_computation:
    (best_k, best_d), best_cv_acc = max(kd acc.items(), key=lambda tup: tup[1])
    test_acc = train_and_evaluate(train_val_txt_files, test_txt_files, best_d, best_k)
    print(f'Best Number of Clusters: k={best_k}')
    print(f'Best Quantization Length: d={best_d}')
    print(f'Tuned Test Accuracy: {test_acc}')
```

Best Number of Clusters: k=50
Best Quantization Length: d=8
Tuned Test Accuracy: 0.7861271676300579



In []: