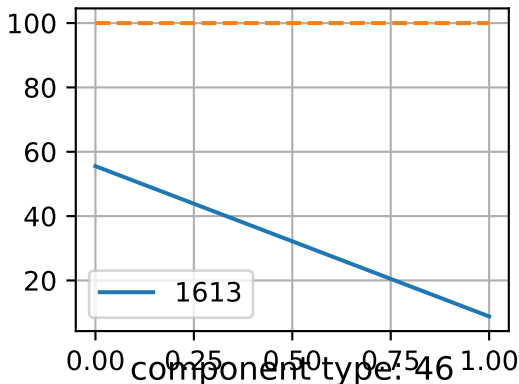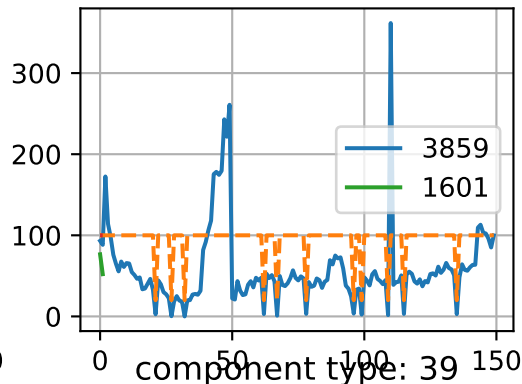machine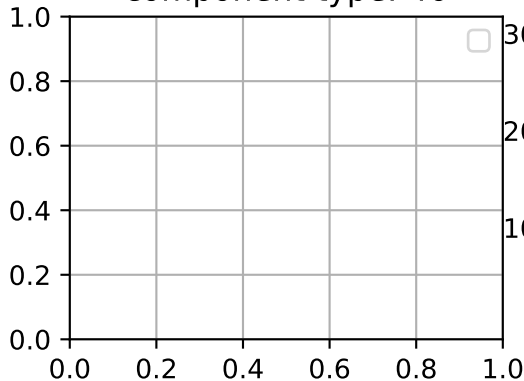 type: 8