



Supplementary Materials: Deep Neural Networks Training by Stochastic Quasi-Newton Trust-Region Methods

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1. Additional Experiments

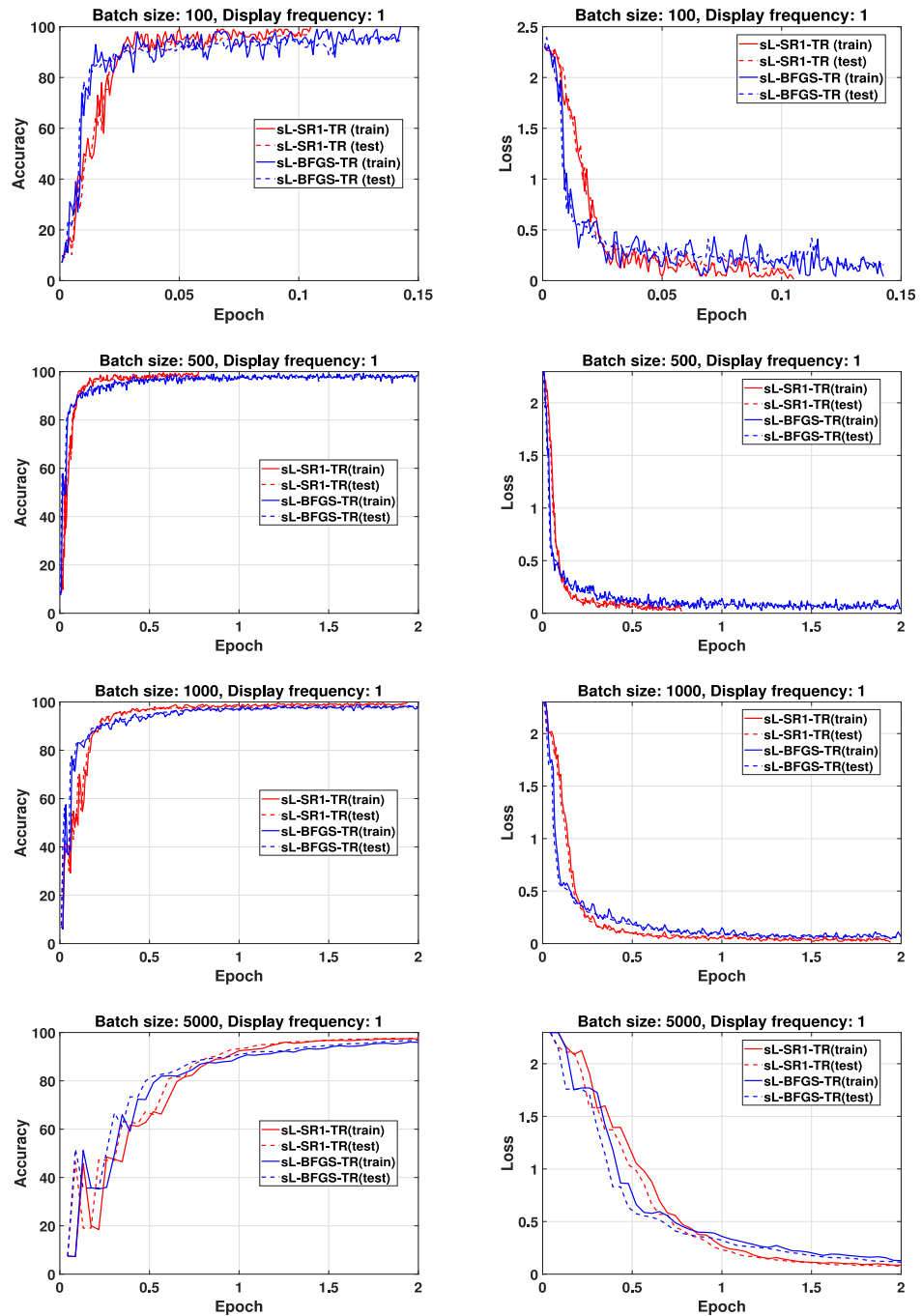


Figure S1. MNIST, LeNet-like: The accuracy and loss evolution vs epoch.

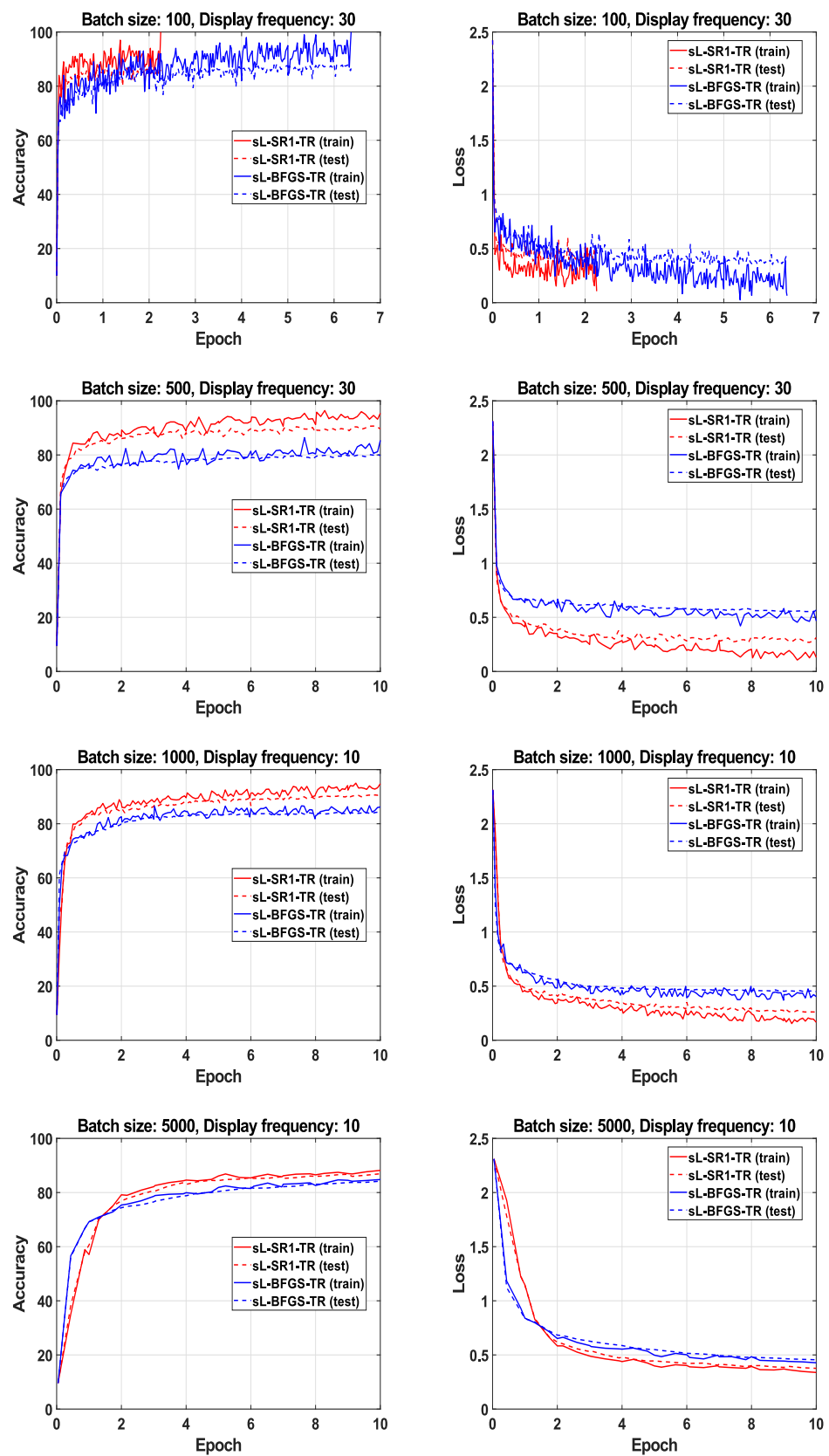


Figure S2. F-MNIST, LeNet-like: The accuracy and loss evolution vs epoch.

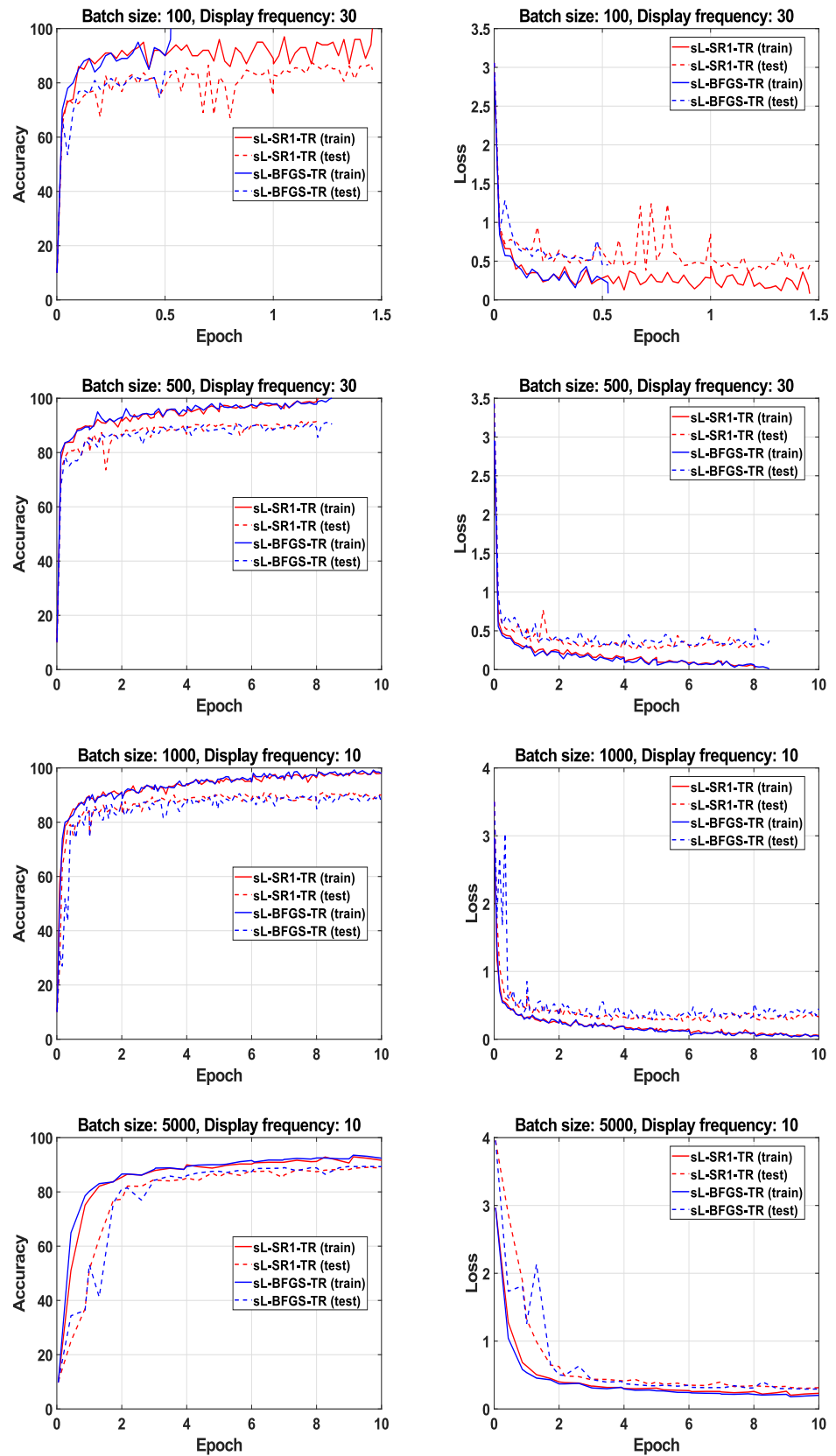


Figure S3. F-MNIST, ResNet-20: The accuracy and loss evolution vs epoch.

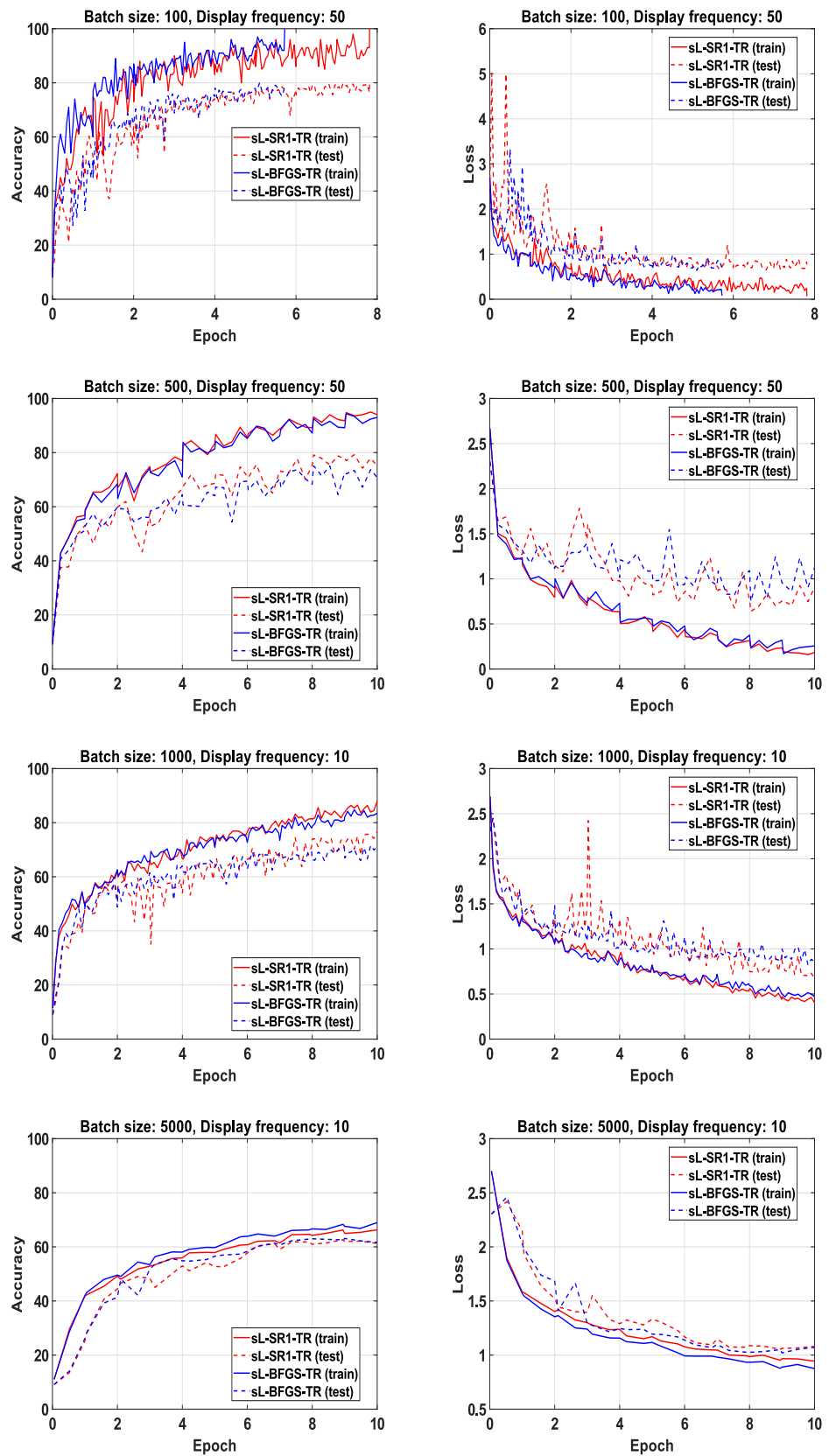


Figure S4. CIFAR10, ResNet-20: The accuracy and loss evolution vs epoch.

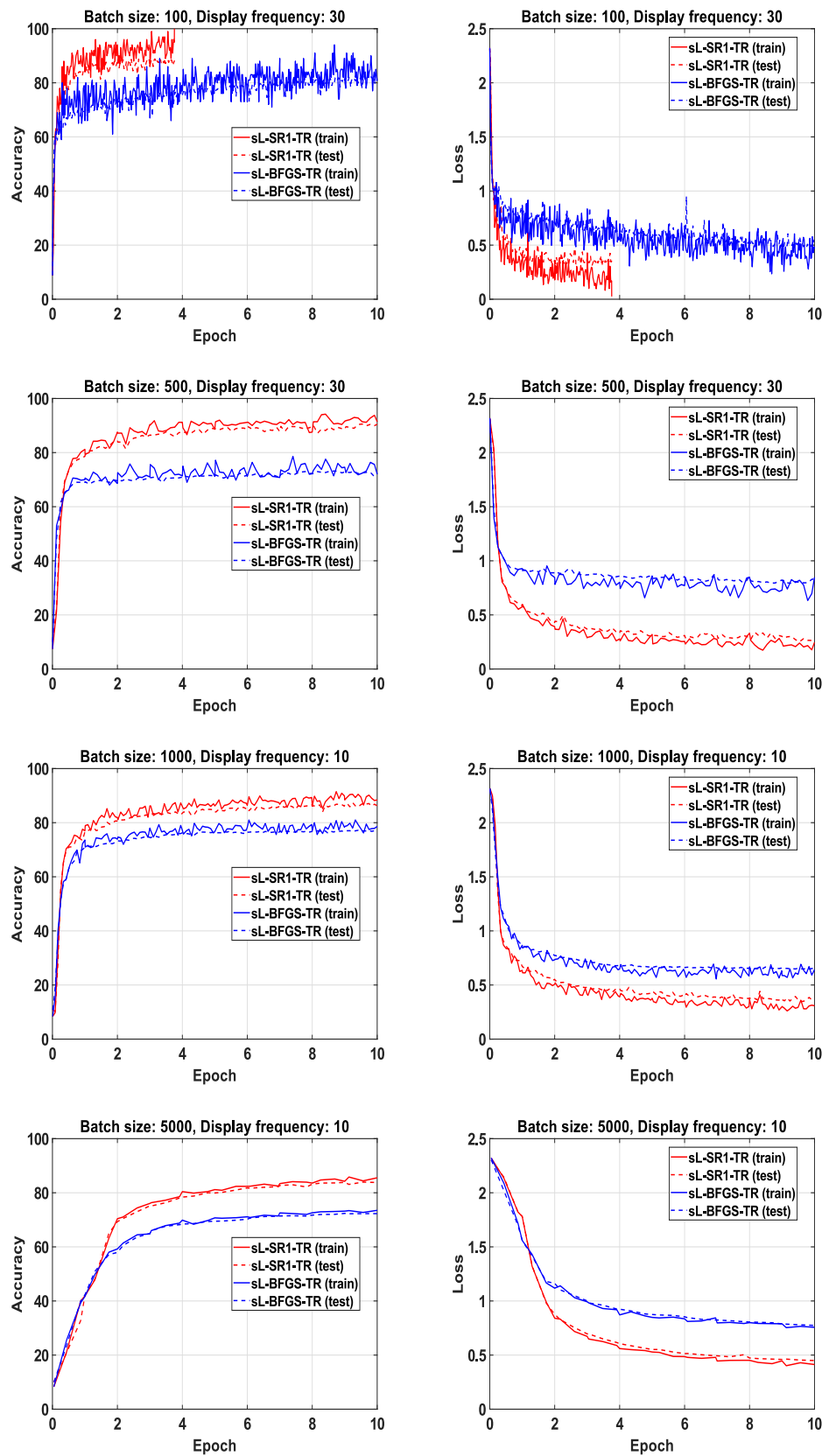


Figure S5. F-MNIST, ResNet-20 (No BN): The accuracy and loss evolution vs epoch.

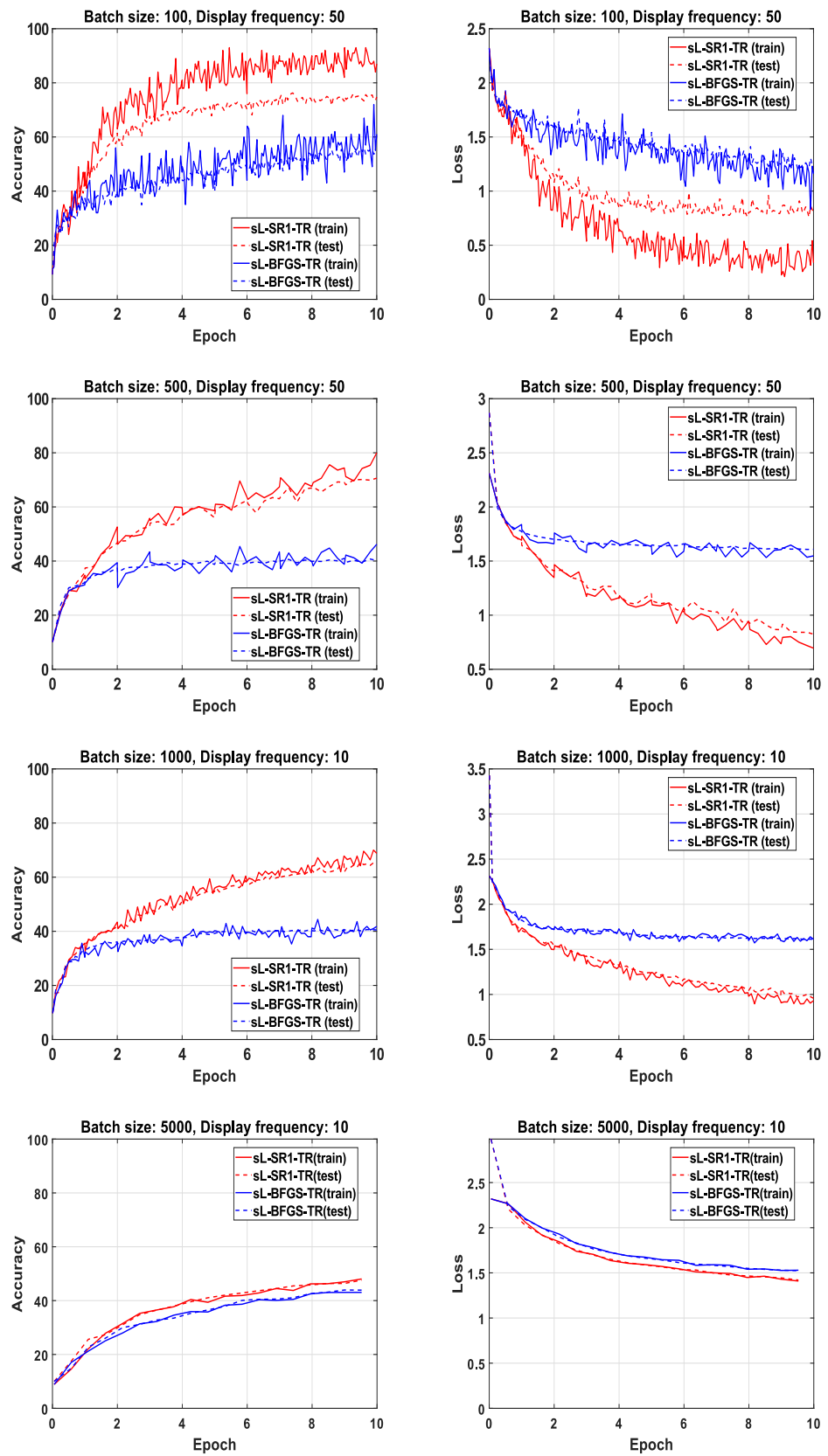


Figure S6. CIFAR10, ResNet-20 (No BN): The accuracy and loss evolution vs epoch.

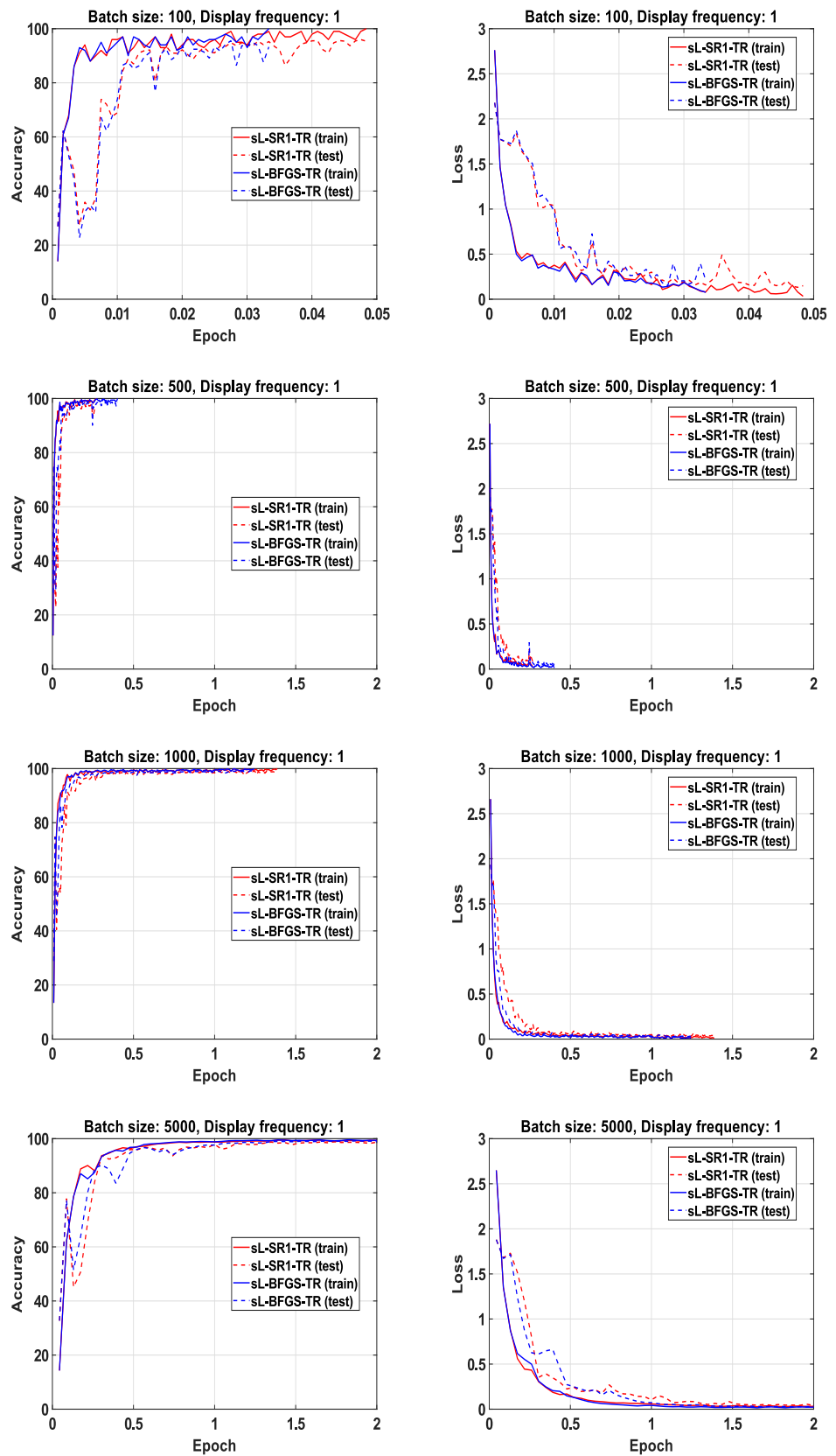


Figure S7. MNIST, ConvNet3FC2: The accuracy and loss evolution vs epoch.

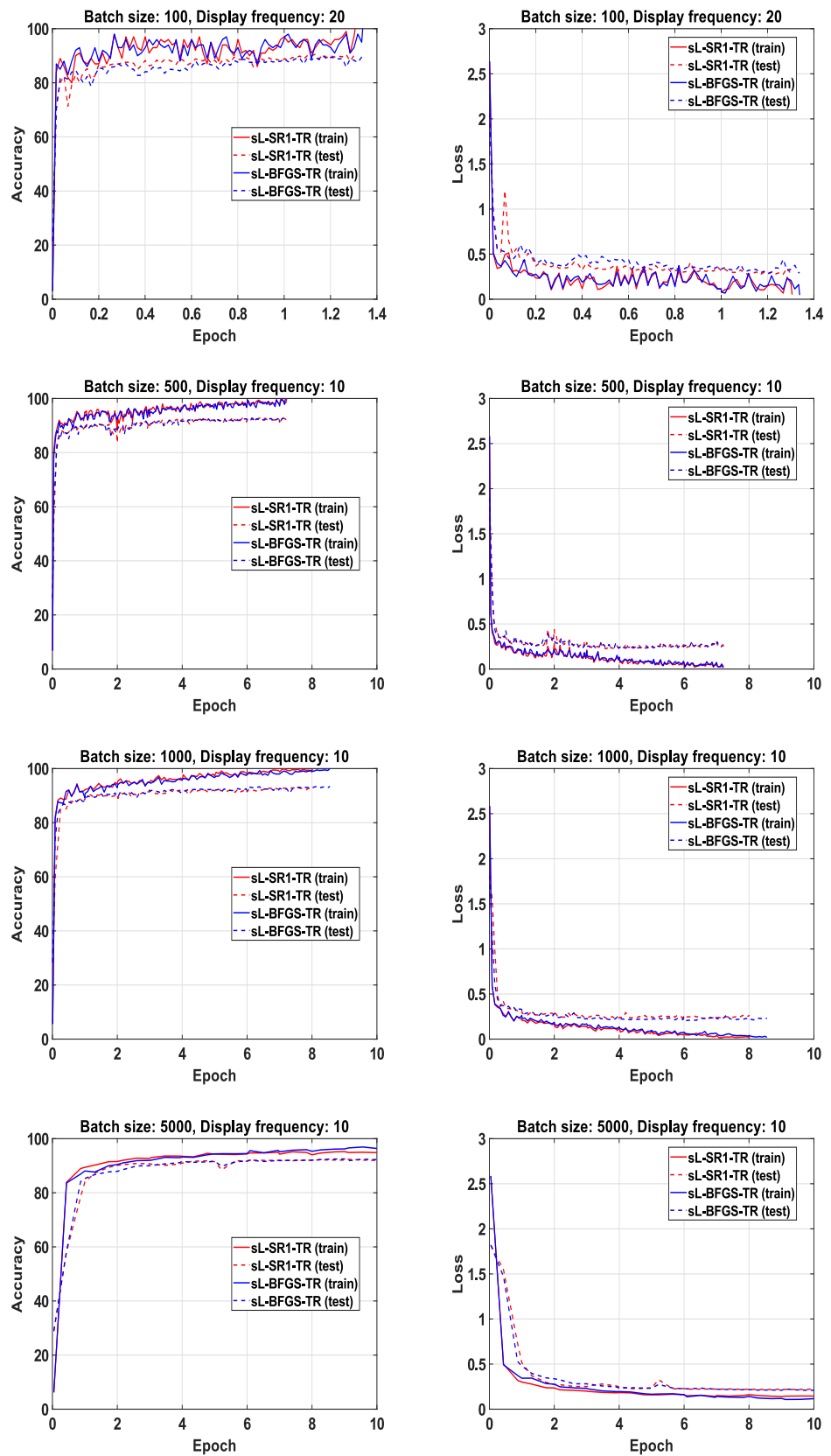


Figure S8. F-MNIST, ConvNet3FC2: The accuracy and loss evolution vs epoch.

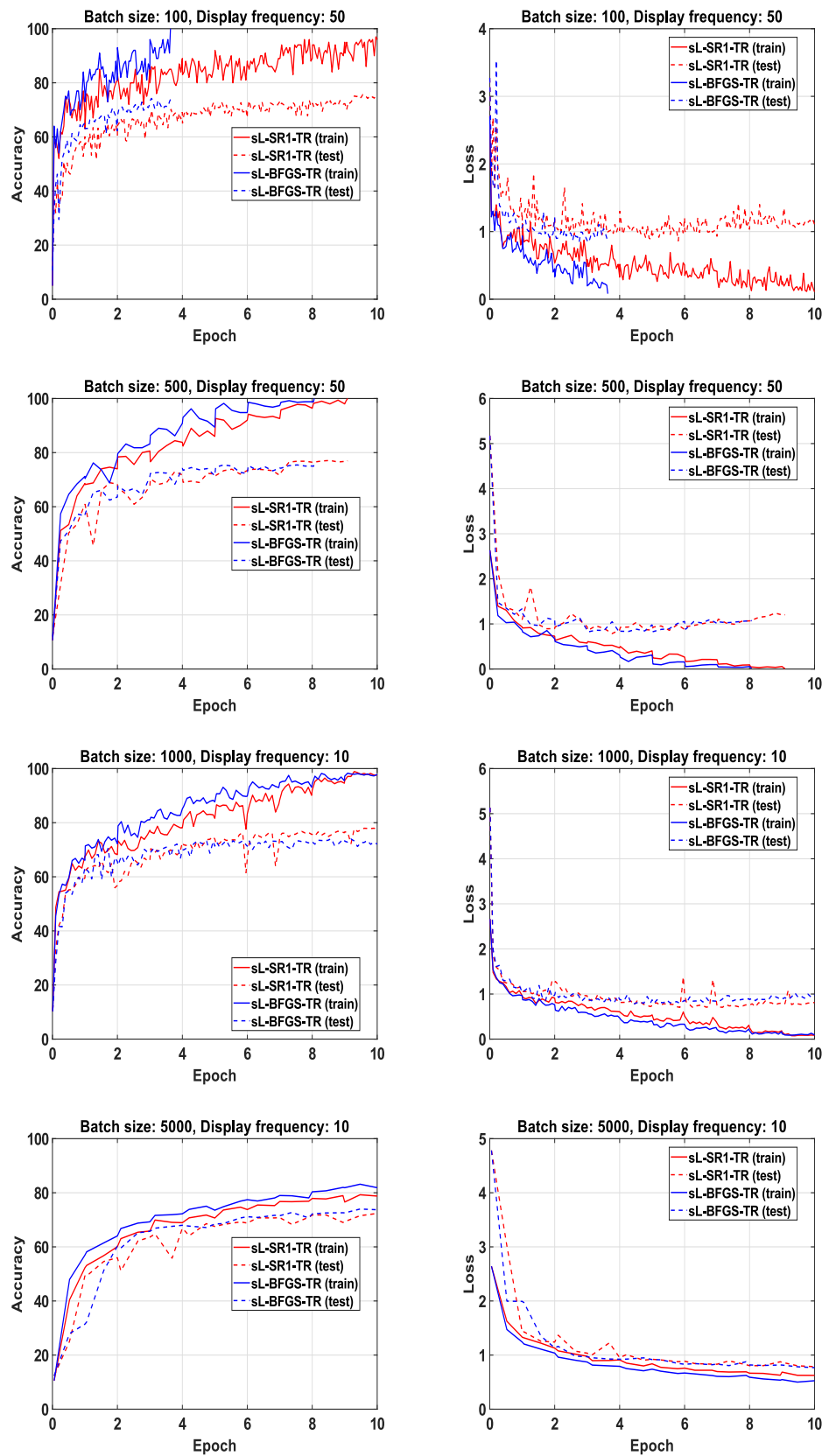


Figure S9. CIFAR10, ConvNet3FC2: The accuracy and loss evolution vs epoch.

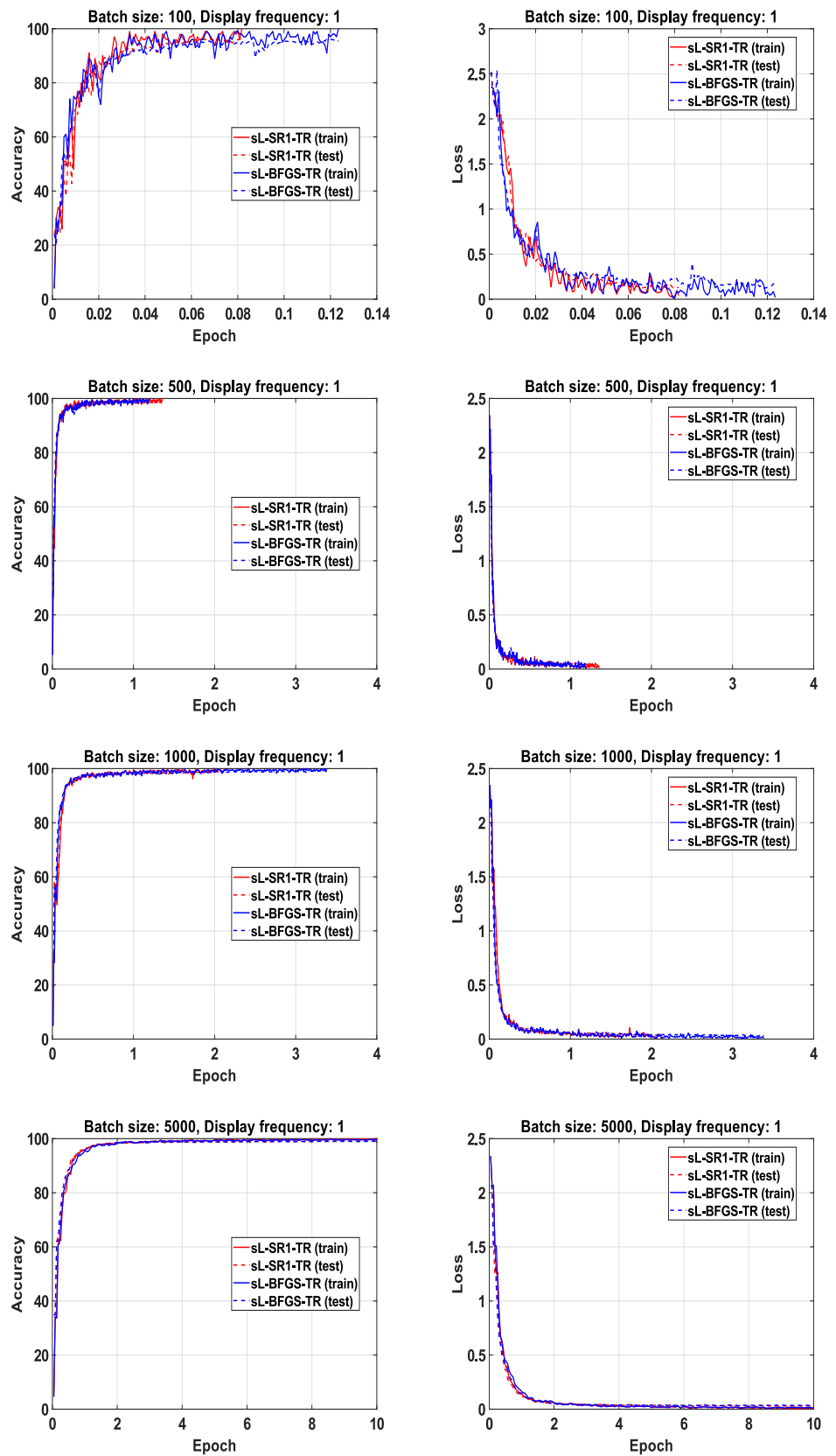


Figure S10. MNIST, ConvNet3FC2 (No BN): The accuracy and loss evolution vs epoch.

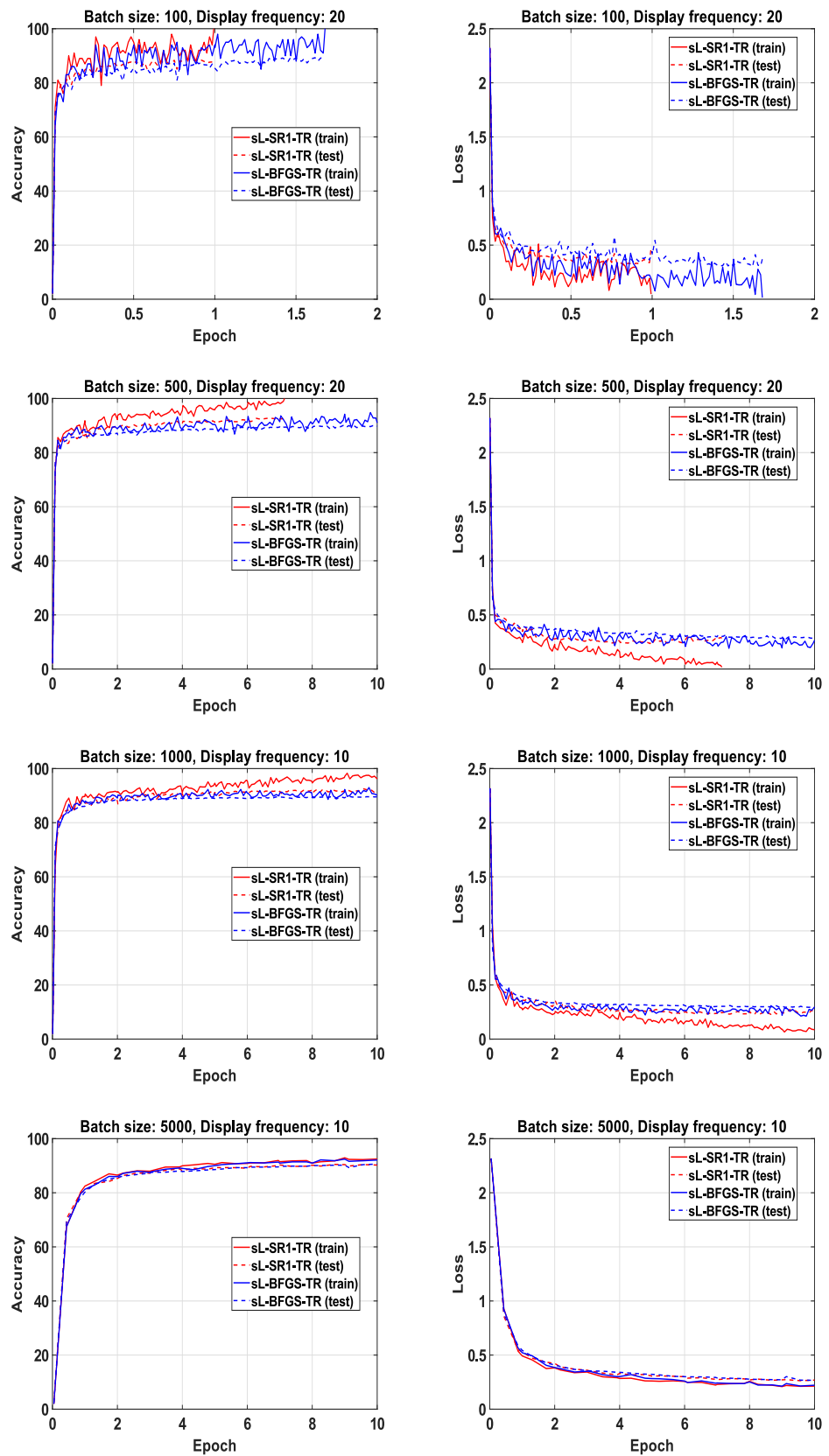


Figure S11. F-MNIST, ConvNet3FC2 (No BN): The accuracy and loss evolution vs epoch.

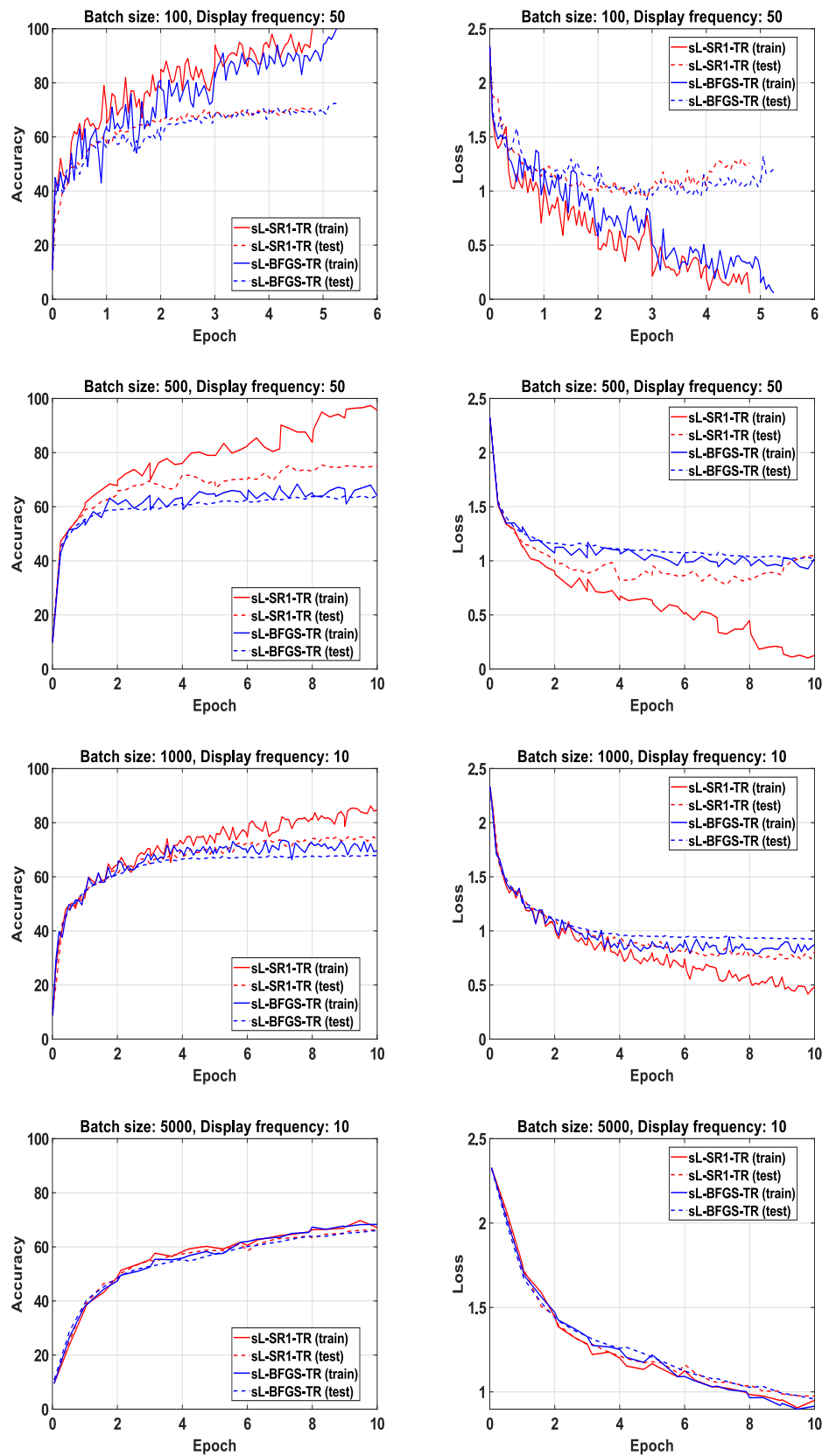


Figure S12. CIFAR10, ConvNet3FC2 (No BN): The accuracy and loss evolution vs epoch.

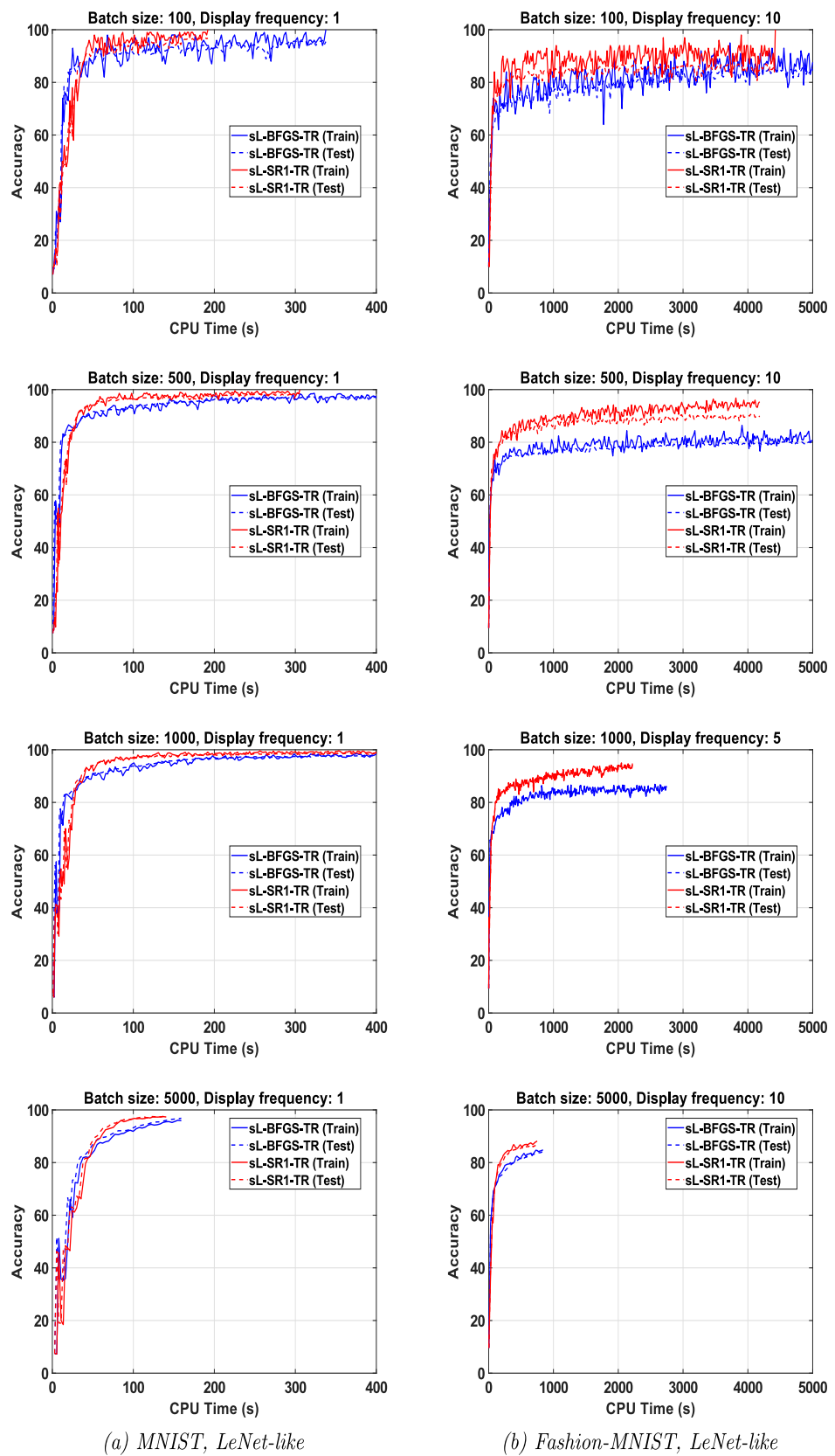


Figure S13. MNIST and F-MNIST: The accuracy evolution vs CPU time.

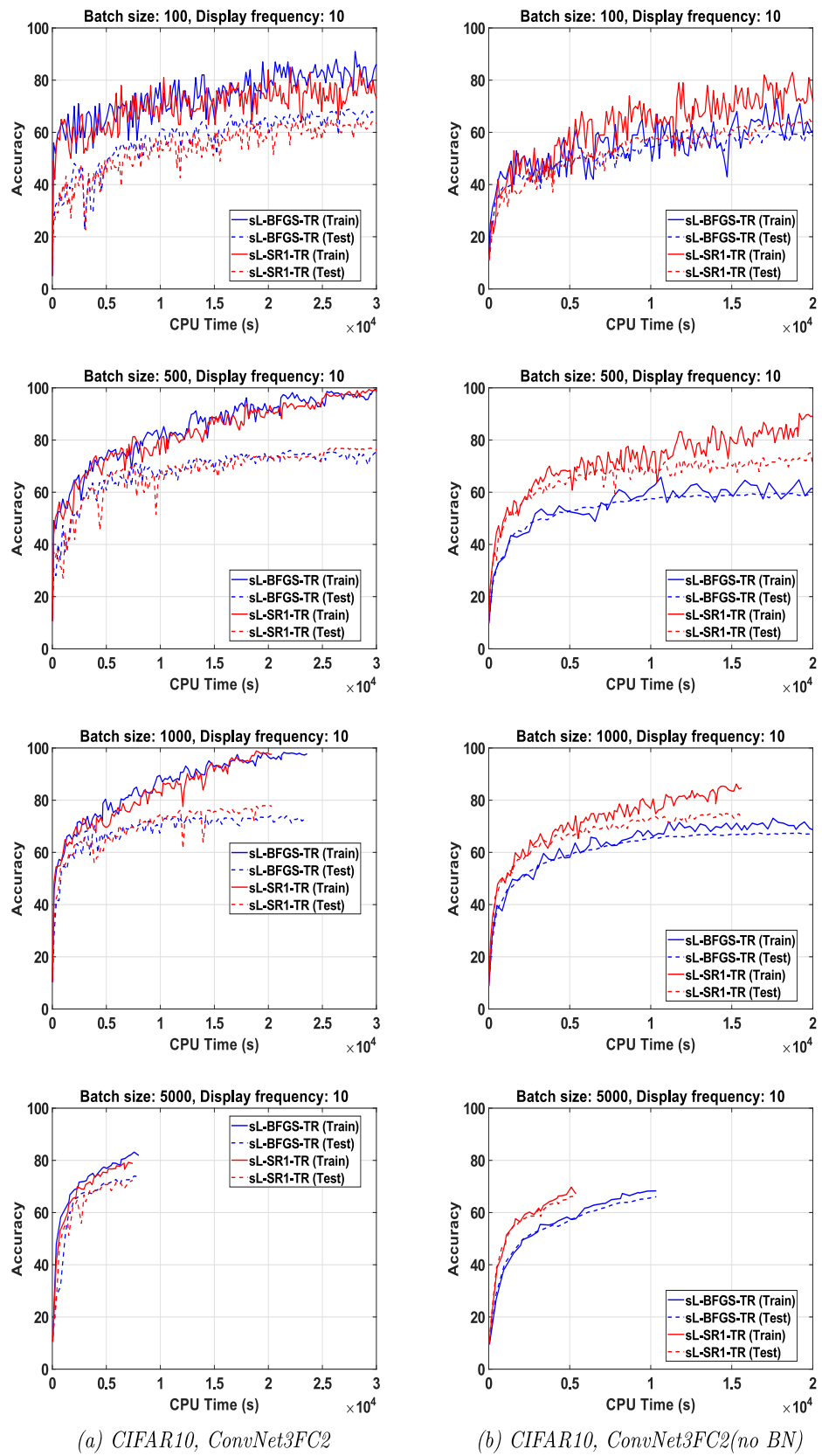
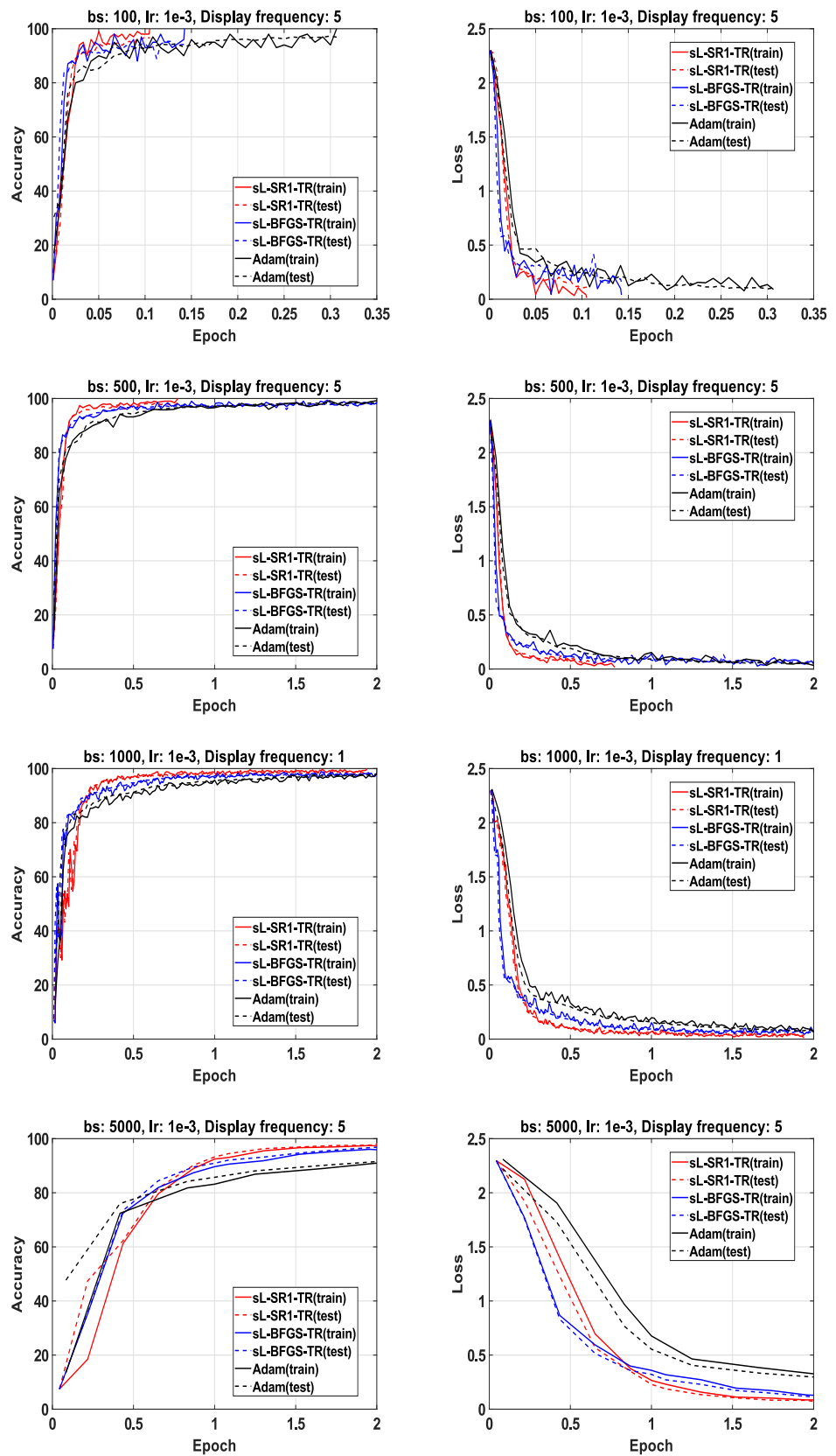
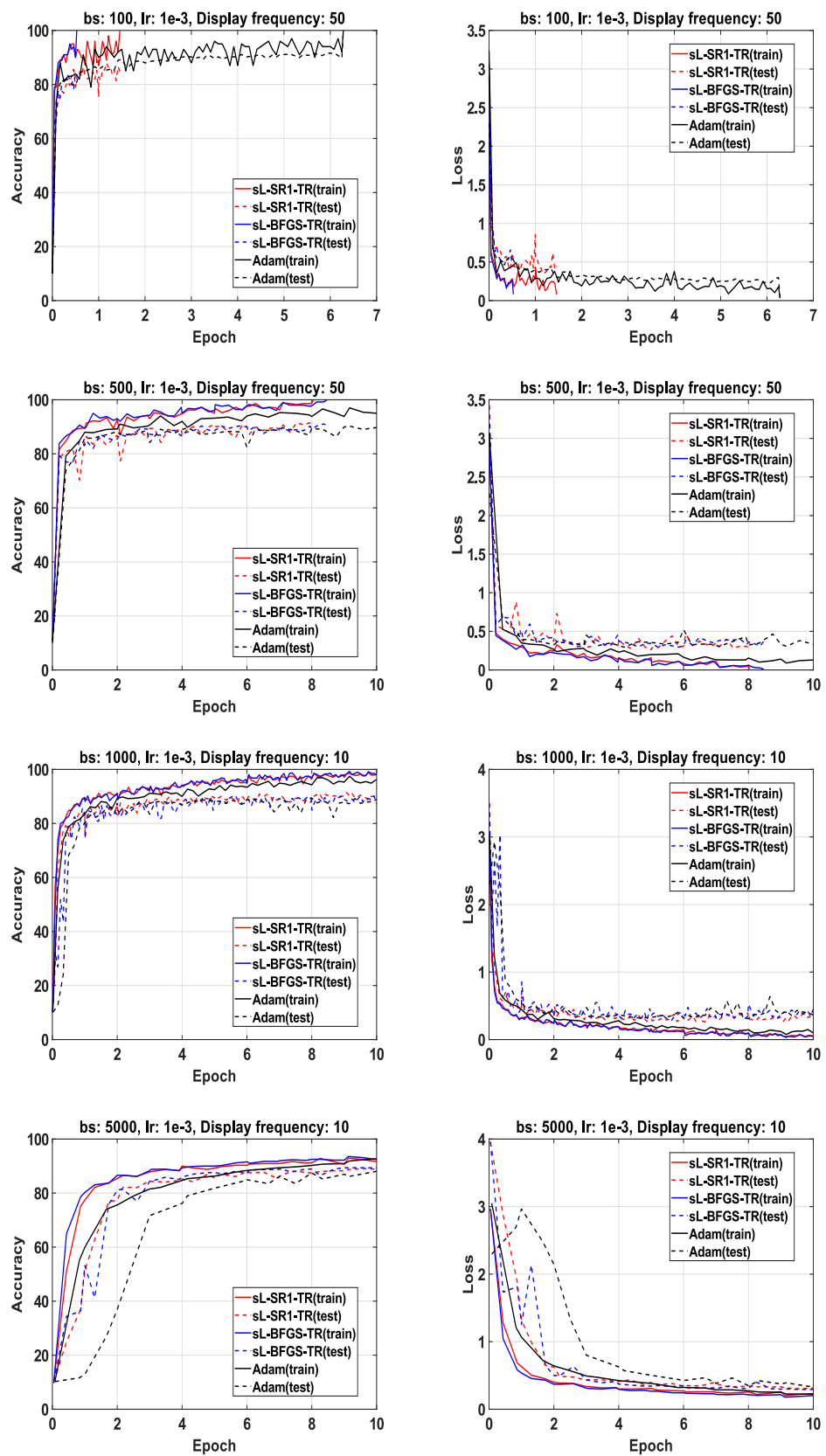
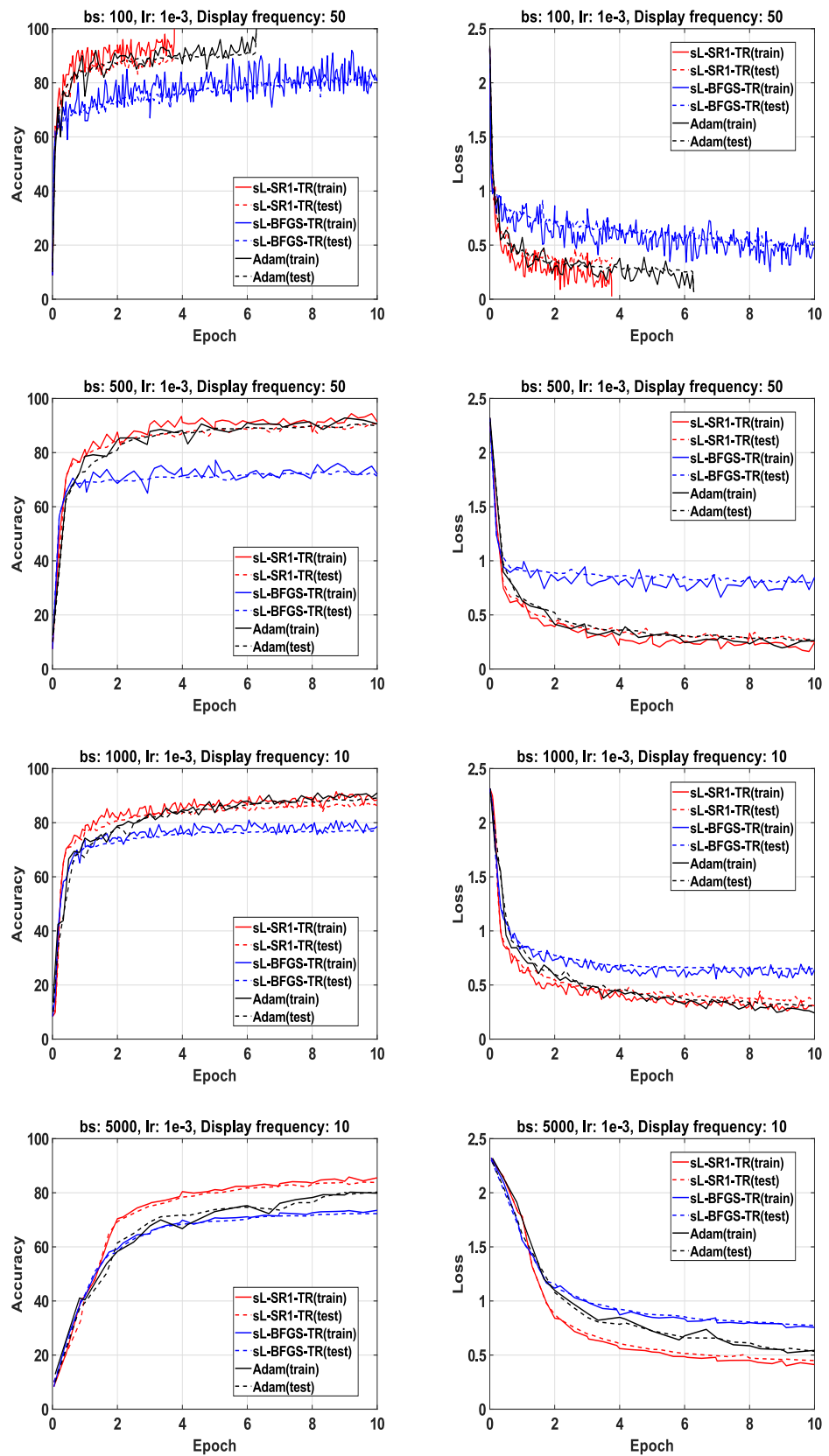
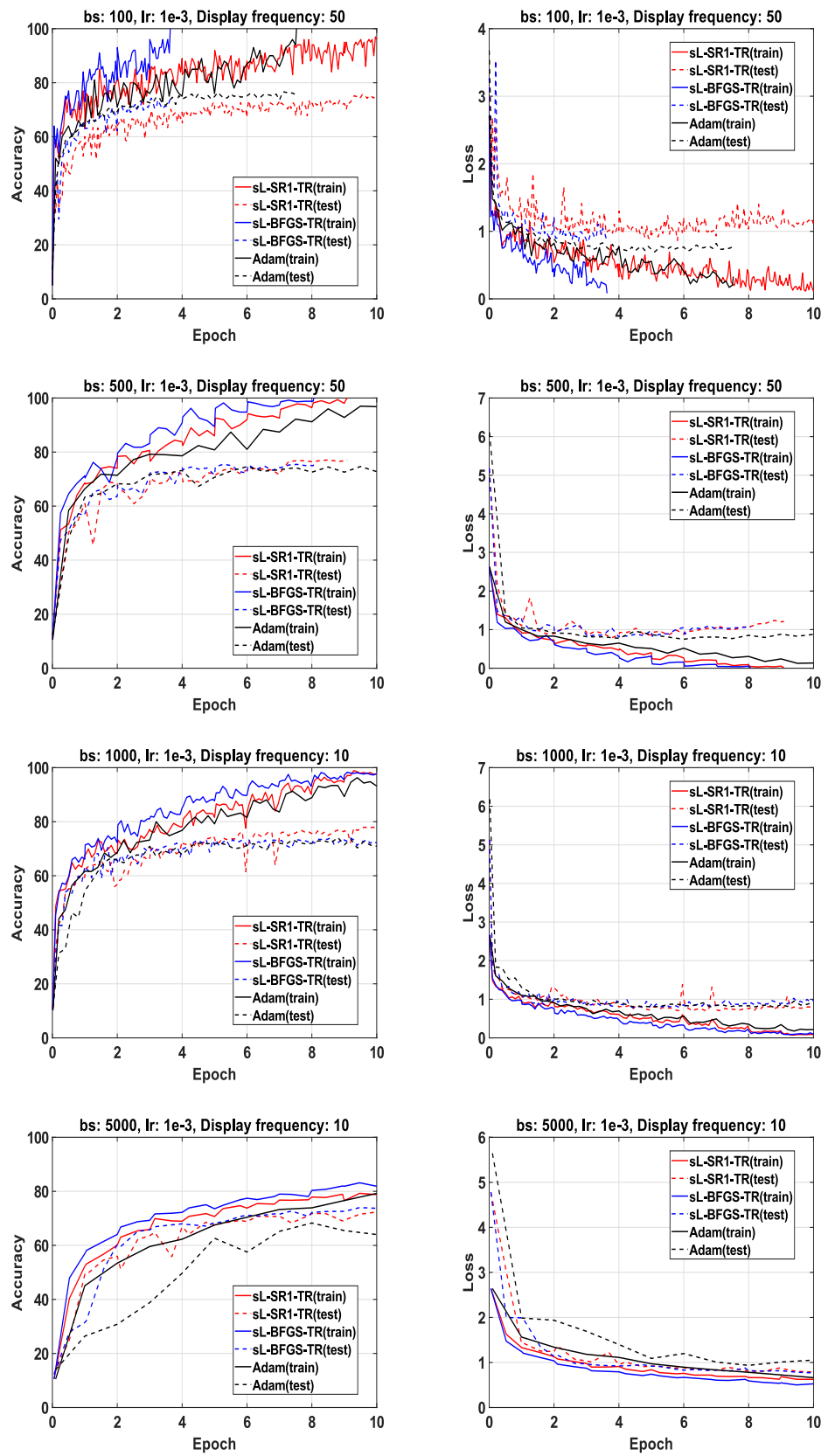


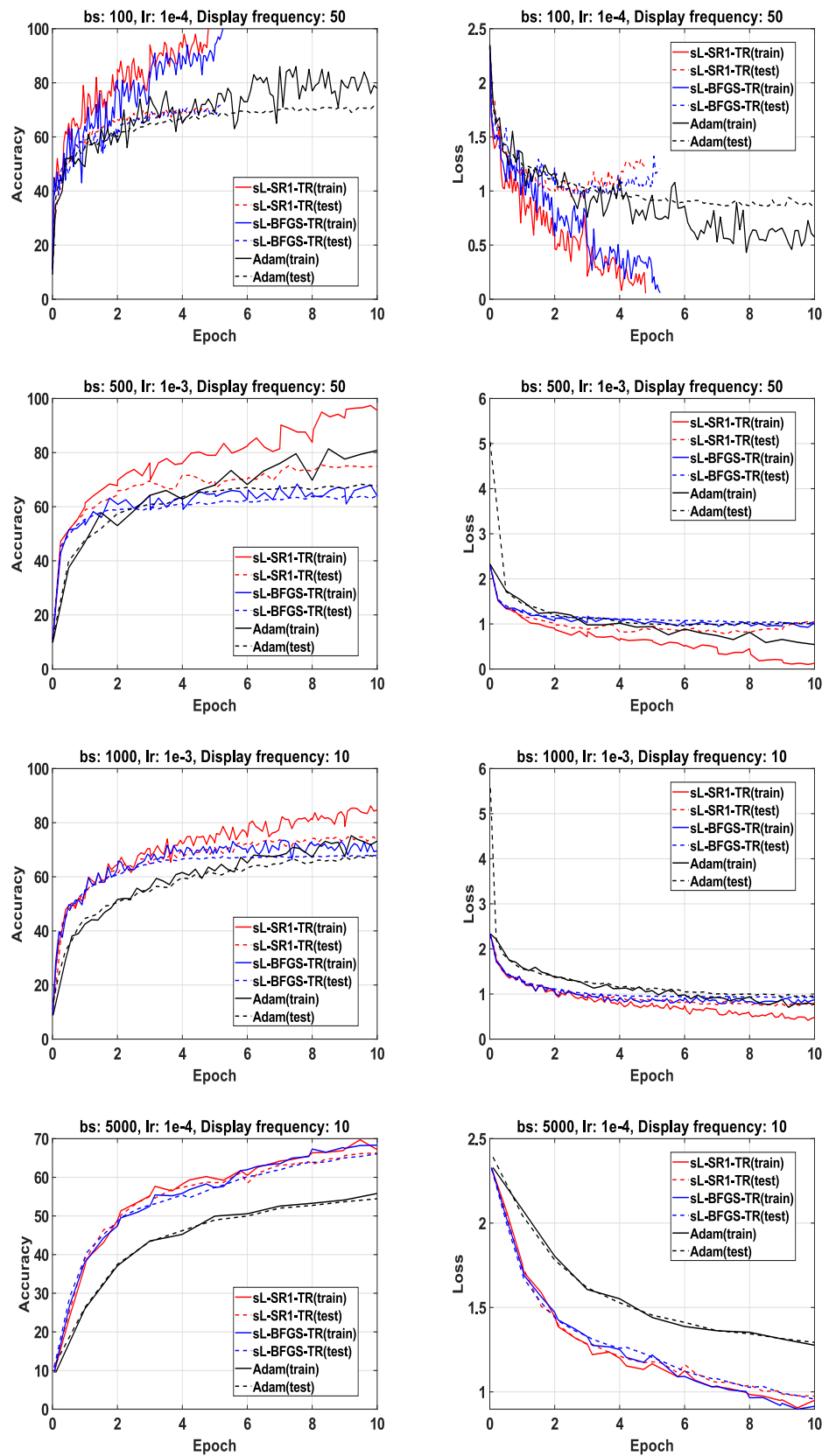
Figure S14. CIFAR10: The accuracy evolution vs CPU time.

Figure S15. MNIST, LeNet-like: Comparison with *tuned* Adam.

Figure S16. F-MNIST, ResNet-20: Comparison with *tuned* Adam.

Figure S17. F-MNIST, ResNet-20 (No BN): ResNet-20: Comparison with *tuned* Adam.

Figure S18. CIFAR10, ConvNet3FC2: Comparison with *tuned* Adam.

Figure S19. CIFAR10, ConvNet3FC2 (No BN): Comparison with *tuned* Adam.