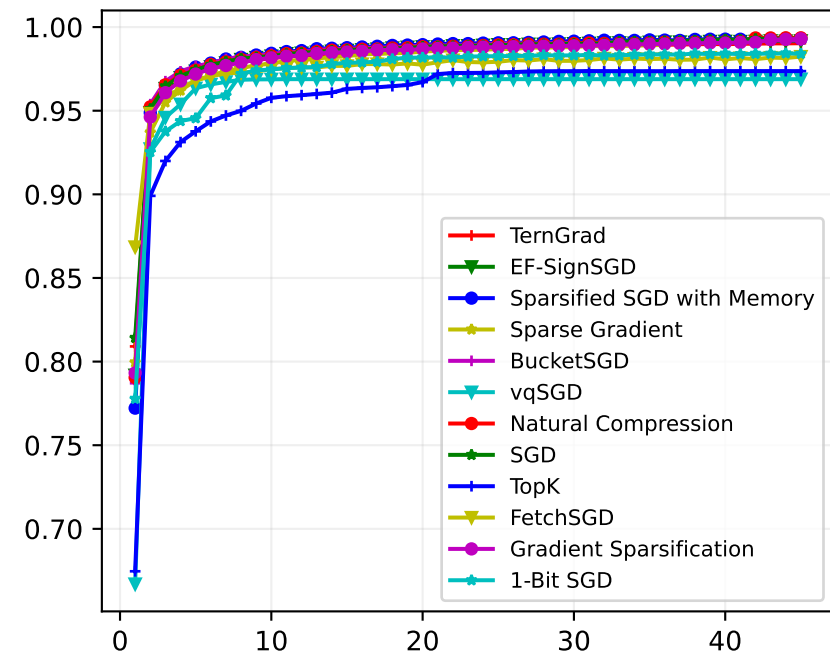
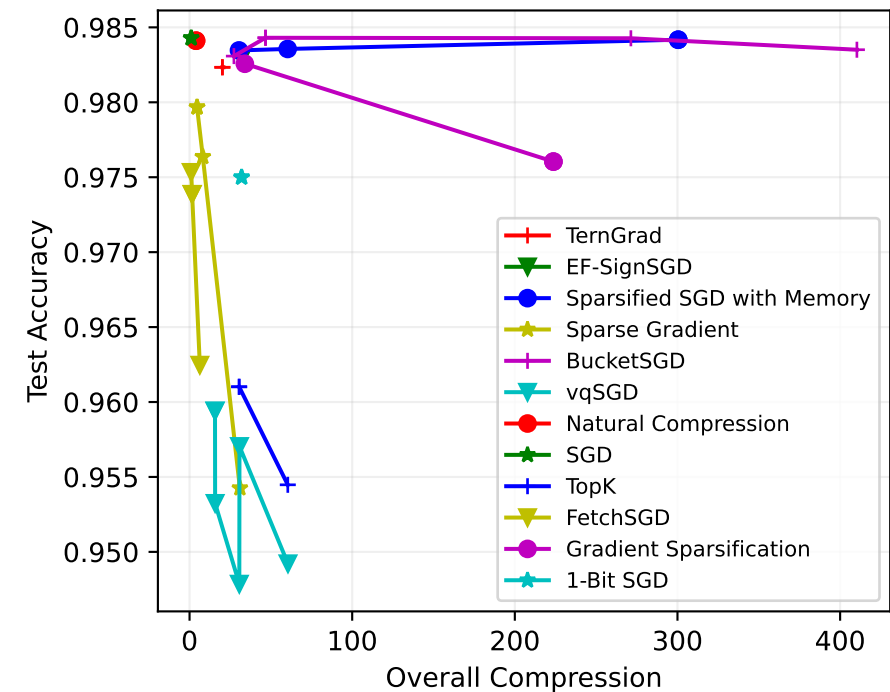
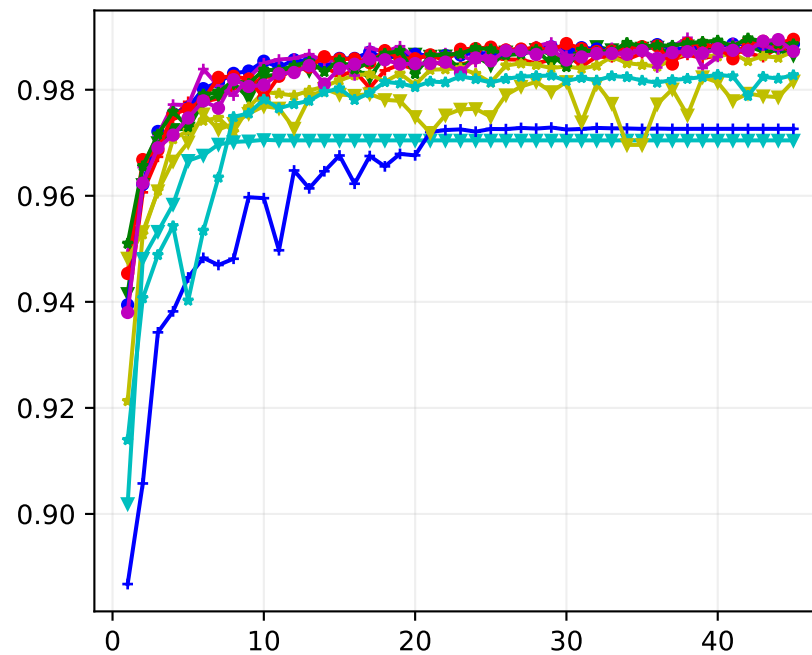


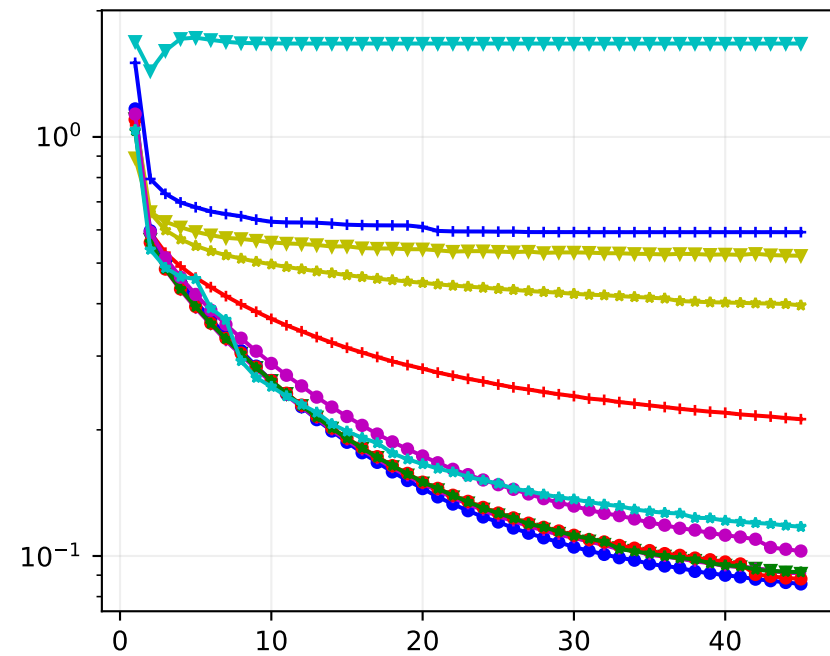
Training Accuracy



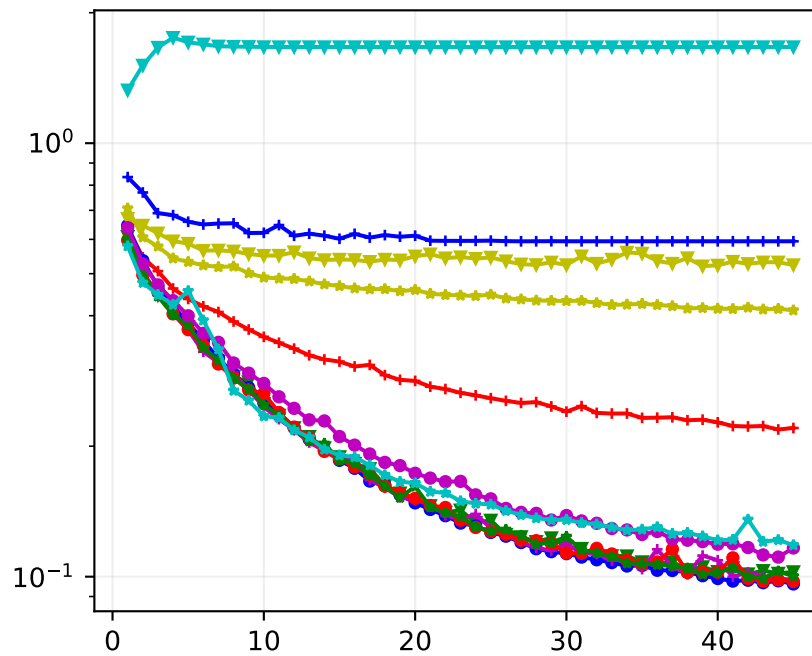
Test Accuracy



Training Loss



Test Loss



Method	Mean Test Acc	Compression Ratio
BucketSGD	98.43	46.72
SGD	98.428	1.0
Sparsified SGD with Memory	98.417	300.47
Natural Compression	98.411	4.0
EF-SignSGD	98.296	32.0
Gradient Sparsification	98.257	33.99
TernGrad	98.234	20.19
Sparse Gradient	97.967	4.61
FetchSGD	97.533	1.02
1-Bit SGD	97.5	32.0
TopK	96.102	30.49
vqSGD	95.94	15.65