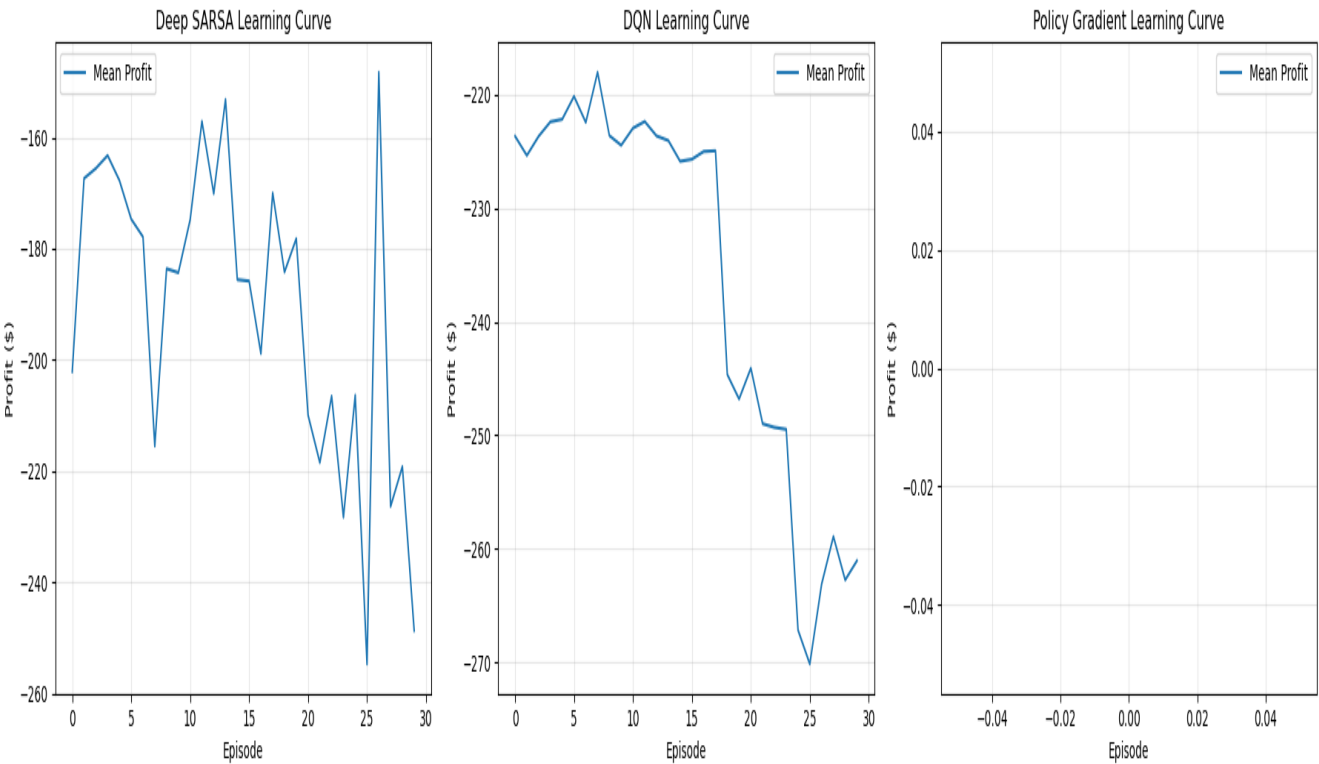# Training Results for MSN Bad Period

Hyperparameters:

Episodes: 30 Gamma: 0.6 Alpha: 0.7 Epsilon Start: 0.8 Epsilon Min: 0.2 Epsilon Decay: 0.9 NN
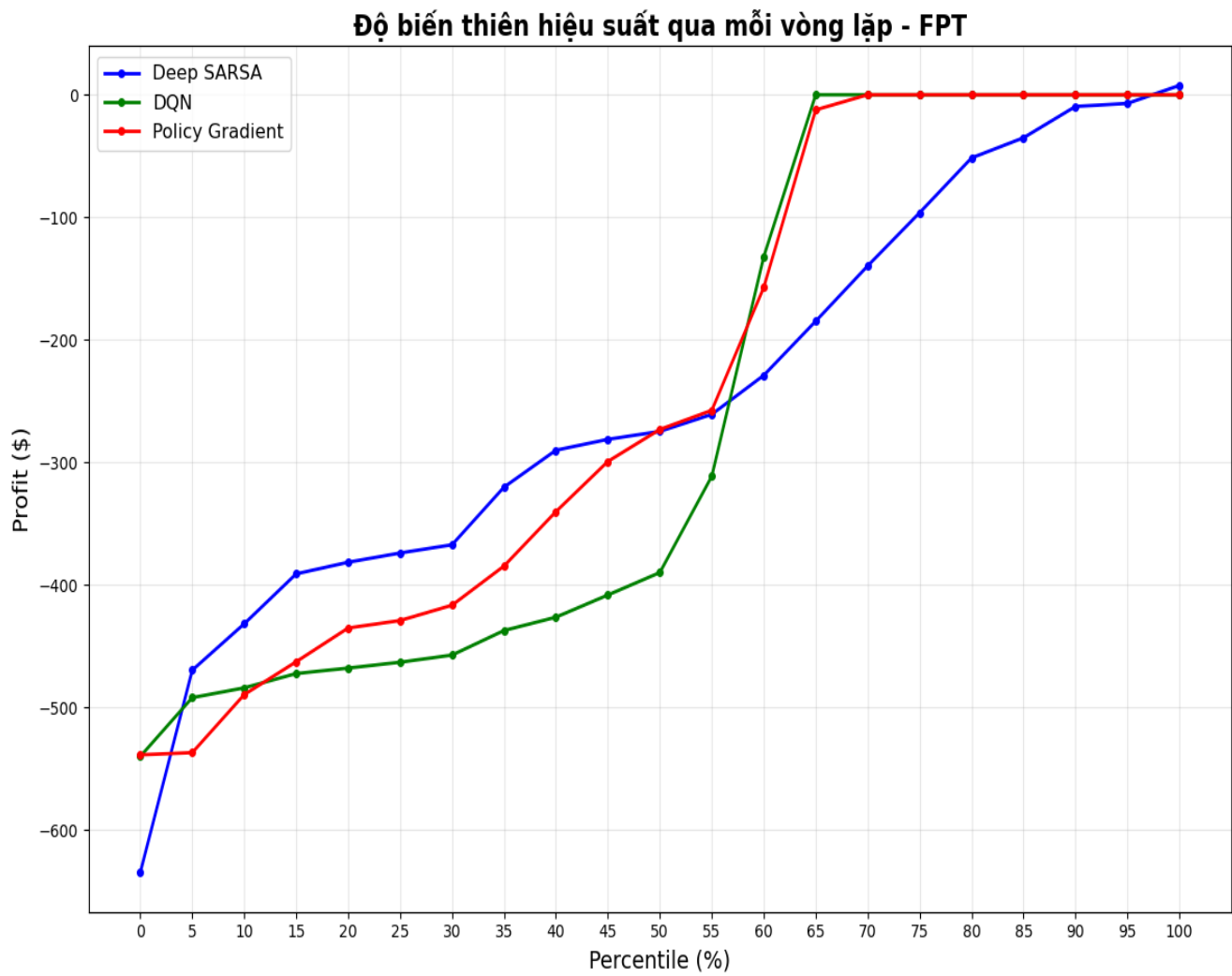Epochs: 10 NN LR: 1e-05 Enabled Agents: [1, 1, 1]

Training Results:

Agent	Average Final Profit	Best Profit	Worst Profit	Peak Training Profit	ROI	Annual Return Rate	Total Re
SARSA	$-248.70 ± $171.59	$7.60	$-634.75	$-148.26	-24.87%	-13.43%	-24
DQN	$-261.06 ± $221.22	$0.00	$-539.98	$-218.02	-26.11%	-14.15%	-26
Gradient	$-239.69 ± $207.82	$0.00	$-538.71	N/A	-23.97%	-12.91%	-23
Policy Baseline	$-239.69 ± $207.82	N/A	N/A	N/A	-23.97%	-12.91%	-23

Learning Curves:

Profit Percentiles:

Độ biến thiên hiệu suất qua mỗi vòng lặp - FPT

Portfolio Value Over Time:

Portfolio Value Over Time - MSN Bad Period