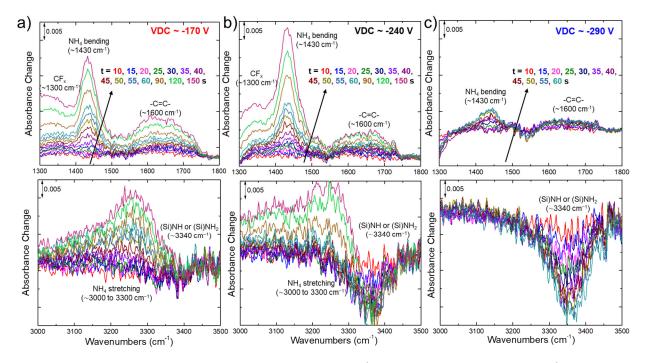


**Fig. 1.** Change in integrated absorbance in the 650–1300 cm<sup>-1</sup> region (includes the Si-N-Si stretching mode at ~860 cm<sup>-1</sup> and Si-NH-Si bending mode at ~1180 cm<sup>-1</sup>) during RIE of plasma-deposited SiN<sub>x</sub> at different bias voltages. The reference spectrum corresponds to the film before RIE.



**Fig. 2.** Change in infrared absorbance in the 1300–1800 cm<sup>-1</sup> region and the 3000–3500 cm<sup>-1</sup> region over RIE of SiN<sub>x</sub> at a bias voltage of (a) ~ -170 V, (b) ~ -240 V, and (c) ~ -290V with the reference spectrum recorded after 5 s RIE.

## **Supplemental Information**