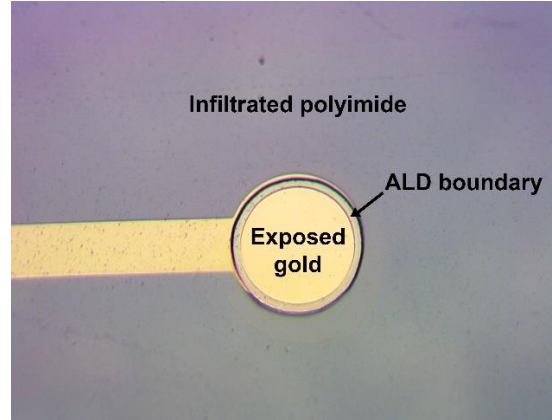
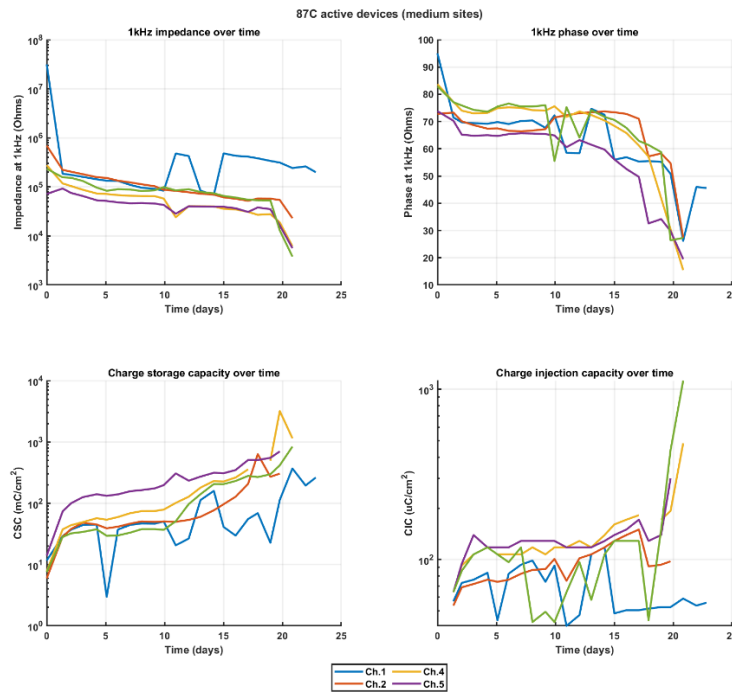


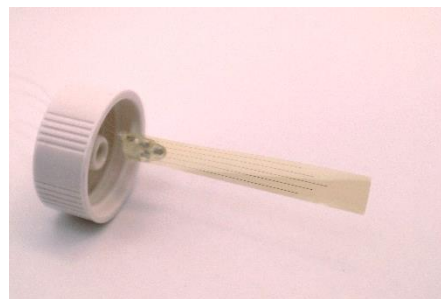
**Fig. 1:** Water vapor transmission rate of metal oxide barrier on polyimide. The final rate (0.9 mg/m<sup>2</sup>-day) can be obtained by subtracting the individual zero (last datapoint) from the last datapoint of the main test (around 310 hours)



**Fig. 2:** Detail of exposed gold electrode after ALD coating and ultrasonic liftoff of metal oxide barrier.



**Fig. 3:** Accelerated lifetime testing of a preliminary active microelectrode device showing functionality until ~20 days at 87C (~640 days at 37C)



**Fig. 4:** An ALD-infiltrated device after ALD via opening.