

Selective detection of elemental mercury vapor using a surface acoustic wave (SAW) sensor

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Supplementary Information

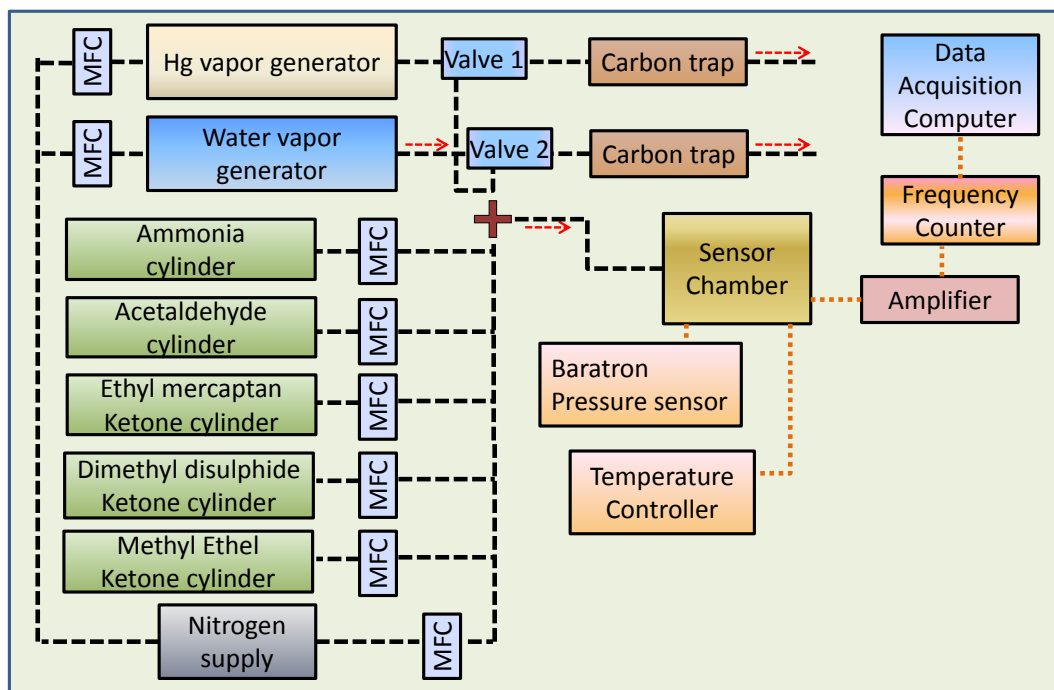


Figure S1. Block diagram of the experimental setup used for mercury vapor detection testing

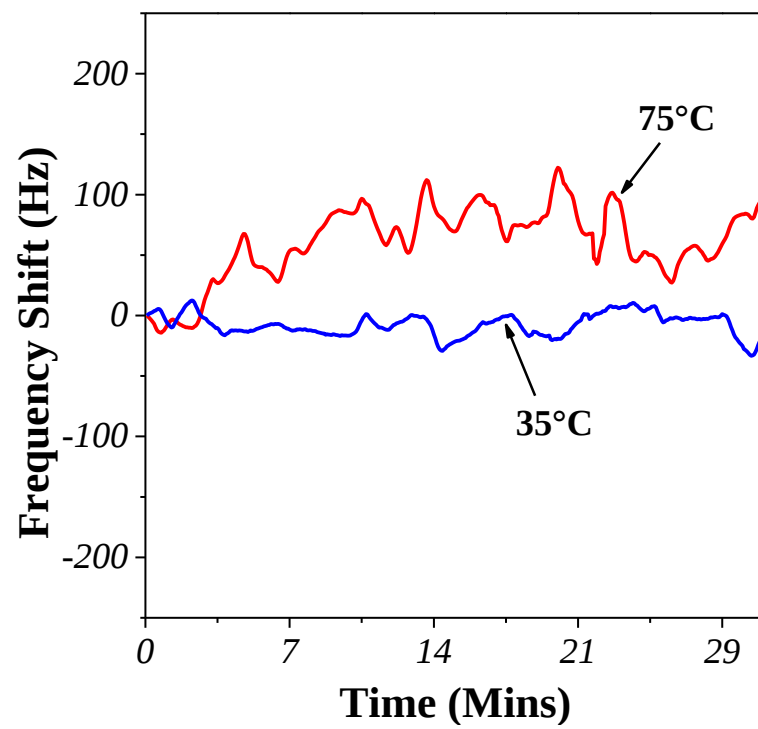


Figure S2. Noise profiles of the sensor while operating at 35 and 75°C

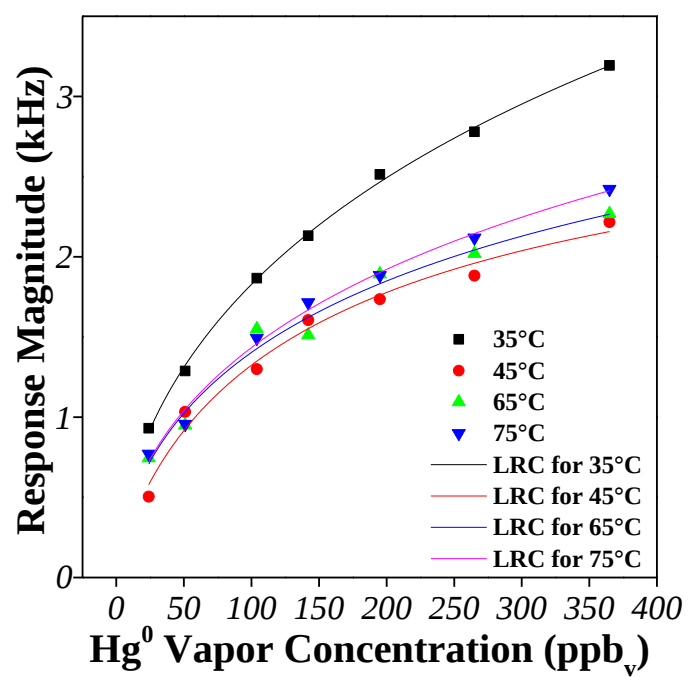


Figure S3. Langmuir Isotherm Fit for 35, 45, 65 and 75°C

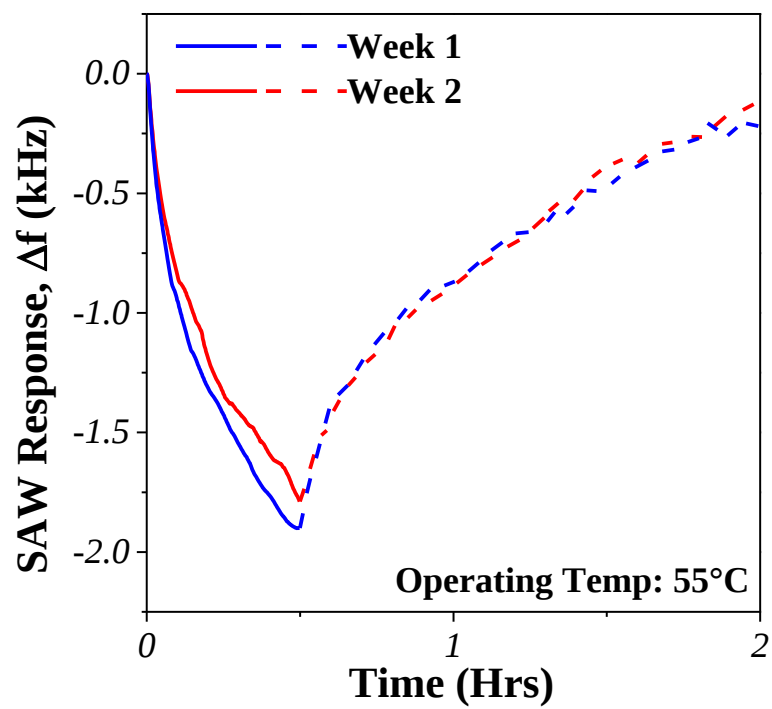


Figure S4. Sensor's response towards Hg^0 vapor pulses of 195 ppb_v in two different weeks.

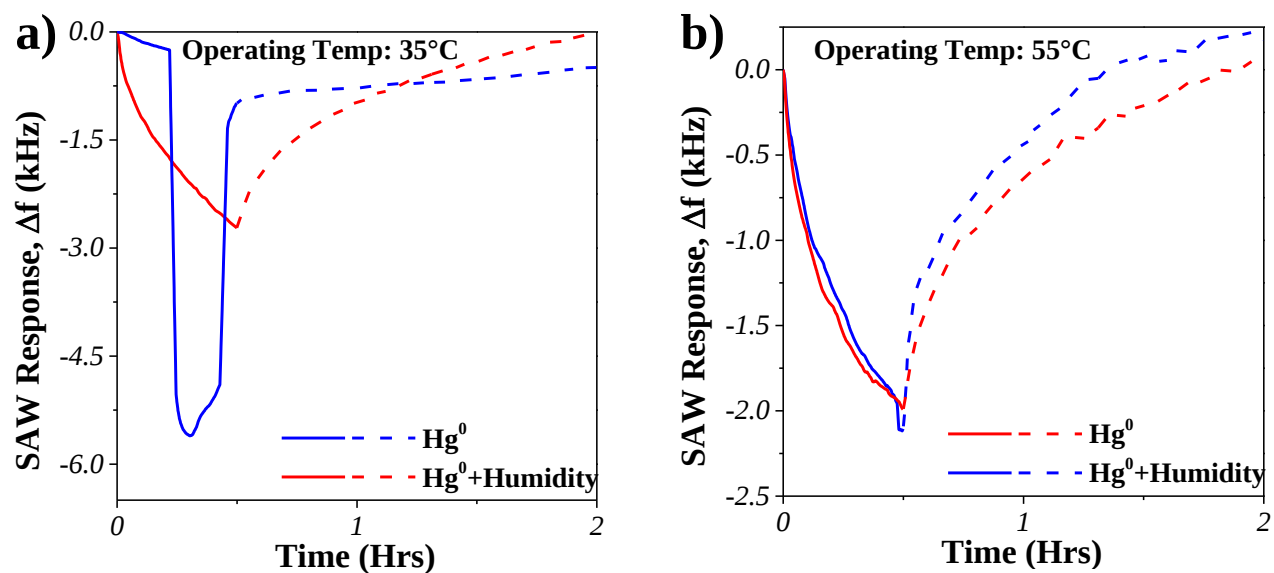


Figure S5. Comparison of sensor's response towards 365 ppb_v of Hg^0 vapor with and without humidity when operating at a) 35°C and b) 55°C. It can be observed that the sensor is responsive towards humidity at 35°C while being very selective toward Hg^0 vapor alone when operated at 55°C.