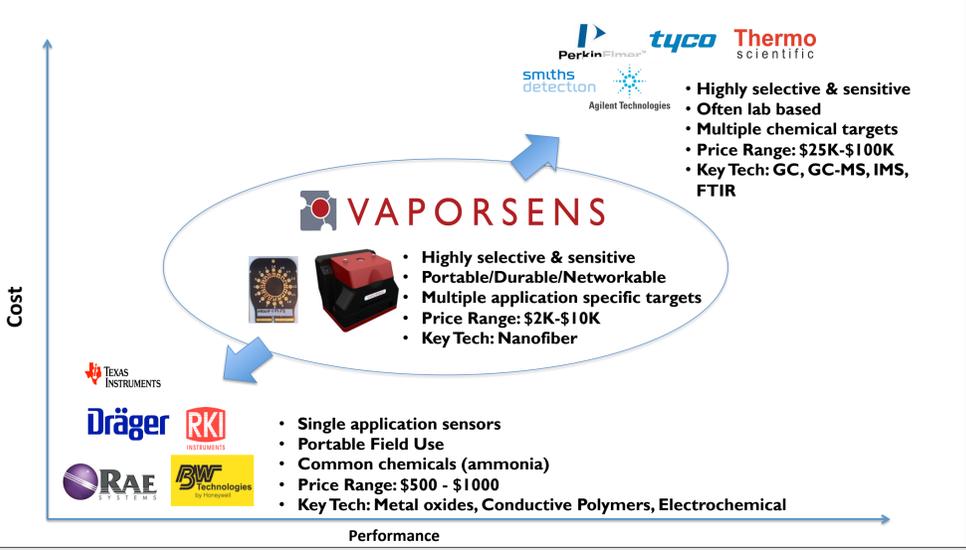


VAPORSENS NANOFIBER CHEMICAL SENSORS

VAPORSENS

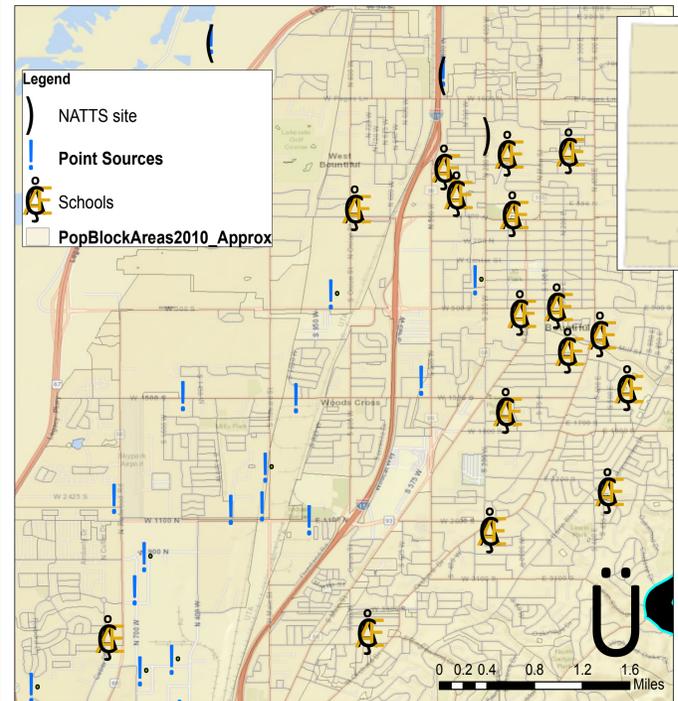
NANOFIBER CHEMICAL SENSORS

www.vaporsens.com
 Angela Mitcham
 Director of Business Development
Angela.Mitcham@vaporsens.com
 435-963-0200



- VALUE PROPOSITIONS**
- Real time measurement
 - High sensitivity (ppb & ppt)
 - Good selectivity
 - Multi-target
 - Portable
 - Small and light
 - Durable
 - Field replaceable
 - Calibration free
 - Remote monitoring

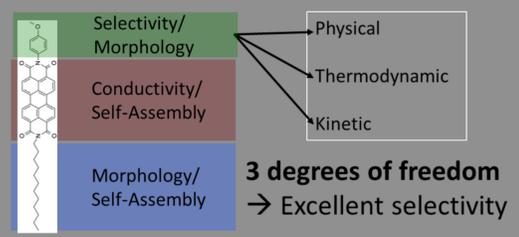
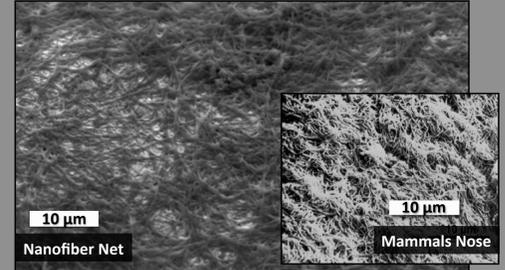
CASE STUDY: Formaldehyde



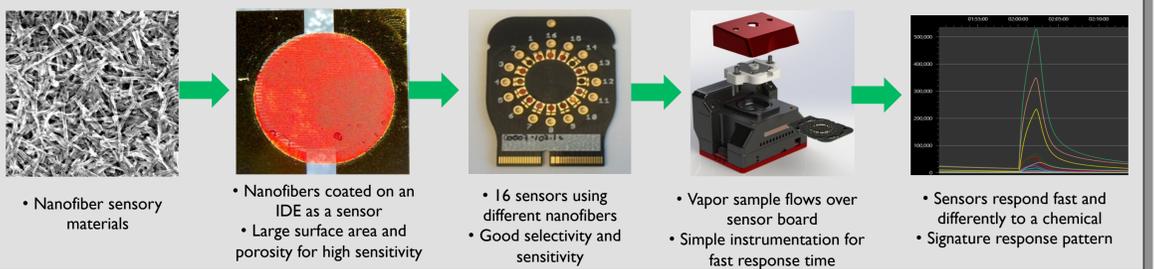
Beta Test: Utah Division of Air Quality
Location: Bountiful, UT
Application: Formaldehyde
Solution: Temporal Resolution; Real Time Remote Monitoring

ROI (1 unit, 1 year)	Adsorbent Cartridge (EPA Method TO-11A)	Vaporsens Pilot
Average Price per Sample	\$105	\$0.29 (estimate)
Time Resolution	24 hour average	5 minute average
Frequency	Five times per month	Once per hour (or more)
Access to data	3+ months, written reporting	Real time, cloud based
Core Technology	Liquid Chromatography	Nanofiber Sensors

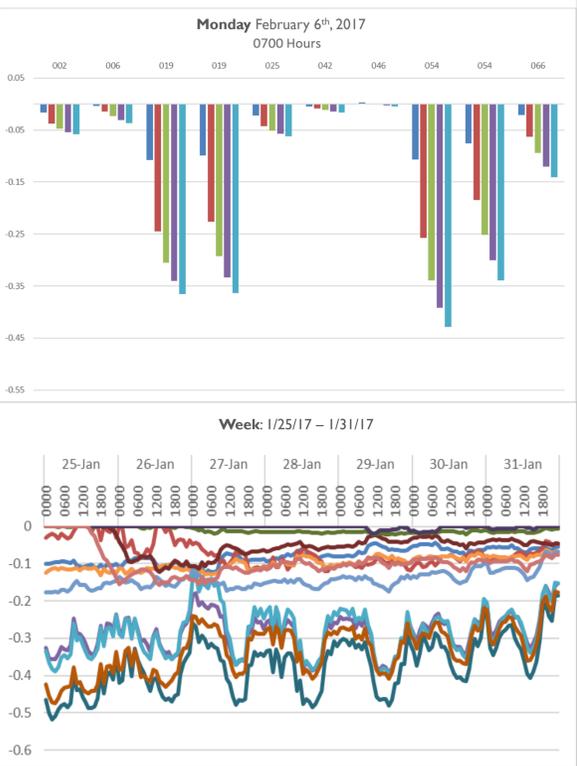
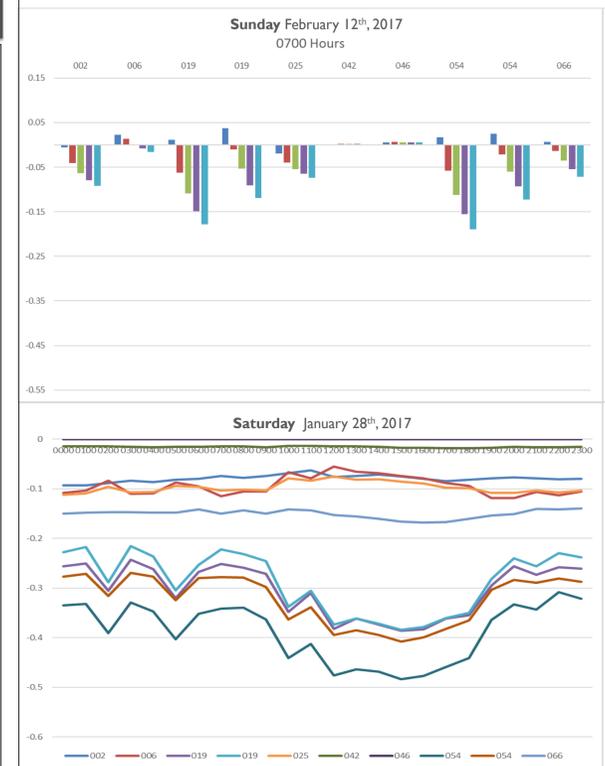
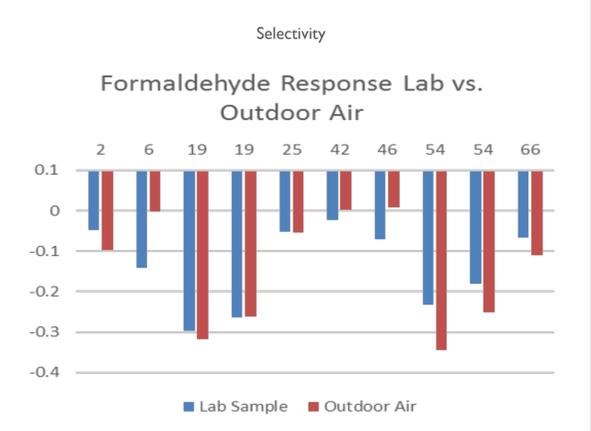
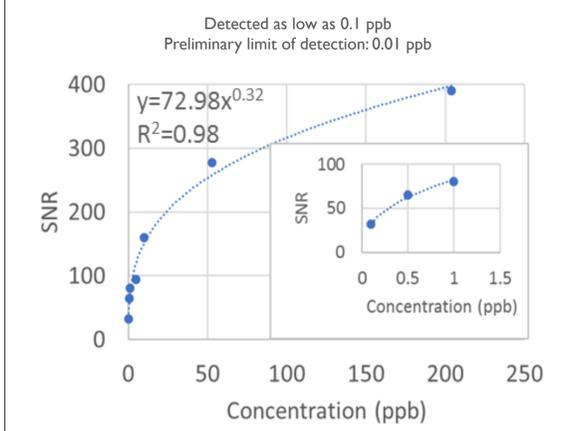
TECHNOLOGY OVERVIEW



Nanofibers are self-assembled from building block molecules (*Acc. Chem. Res.*, 41, 1596 (2008)). These building block molecules are functionalized to interact specifically with certain chemicals or classes of chemicals. The use of organic molecular structures provides virtually limitless possibilities in functionality. Once assembled, the nanofibers are placed onto an electrode pair to create a chemiresistive sensor. A 16 sensor array allows for increased sensitivity and selectivity.



DATA



LEADERSHIP

 CSO Ling Zang Professor, Nanomaterial Sensors	 President & CEO Doug Later 25+Y in detection equipment, >\$15M R&D	 Product Engineering Ross Riches 30+Y engr. mgmt., MBA, Six Sigma	 R&D Coordinator Ben Bunes 11Y nanotech R&D, PhD from Zang Lab	 Business Development Angela Mitcham MBA, customer discovery, go-to-market strategy
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