
ProTech Sensors
Innovative VOC sensor technology

Our primary focus…

To dramatically expand the capabilities of **VOC detectors** by improving…

selectivity,

speed, and

ease of use

About Us

ProTech Sensors is developing a novel VOC sensor technology that can be targeted to detect numerous compounds for industrial, residential, medical and military applications.

Platform Technology

Petrochemical

Benzene
Toluene
Ethylbenzene
Xylene

Oil & Gas

Benzene
Toluene
Ethylbenzene
Xylene

Home

Benzene
Formaldehyde
Methylene chloride
Tetrachloroethylene
Ethylene glycol
Toluene
Xylene
1,3-butadiene

Medical

Isoprene,
Acetone,
…

Military

Pentanal
4-butyrolactone
2-pentanone
2-hexanone
2-cyclopenten-1-one
3-methylheptane and
2-heptanone, Isoprene
Naphthalene

Initial Customer Focus – BTEX

Gas detector manufacturers are actively searching for a sensor technology that can identify multiple VOCs

Honeywell

MSA The Safety Company

mocon

Petroleum Refinery Applications

Handheld

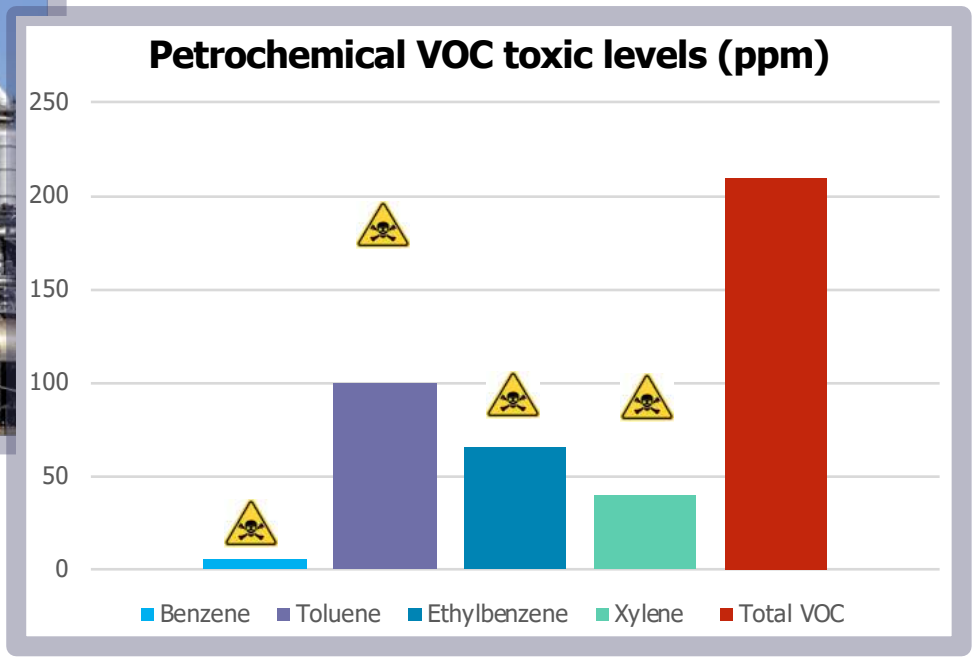
Fixed

Wearable

Problem – Selectivity / Sensitivity

No low cost sensors available that provide selectivity and sensitivity

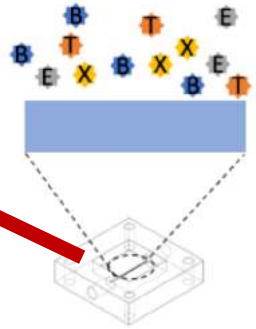
Petroleum Refinery
BTEX



Solution

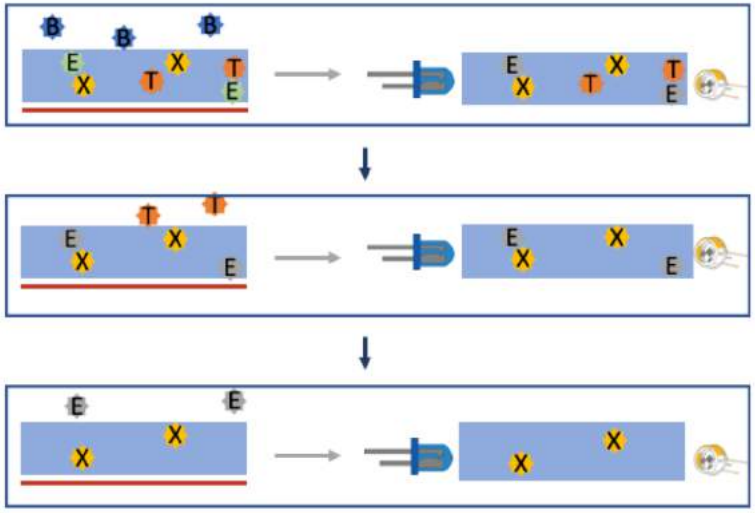
Polymer waveguide combined with thermal desorption enable sensor to detect multiple compounds.

Step 1: Pre-concentration



Step 2: Separation

Step 3: Quantification



Timeline

Fall 2020

Optimized Prototype / Business Plan

Winter 2021

Production Prototype

Fall 2022

Commercial Version – MEMS Hybrid

Sales

Competitive Landscape