Liquid Crystal-Based Sensors for Environmental Monitoring

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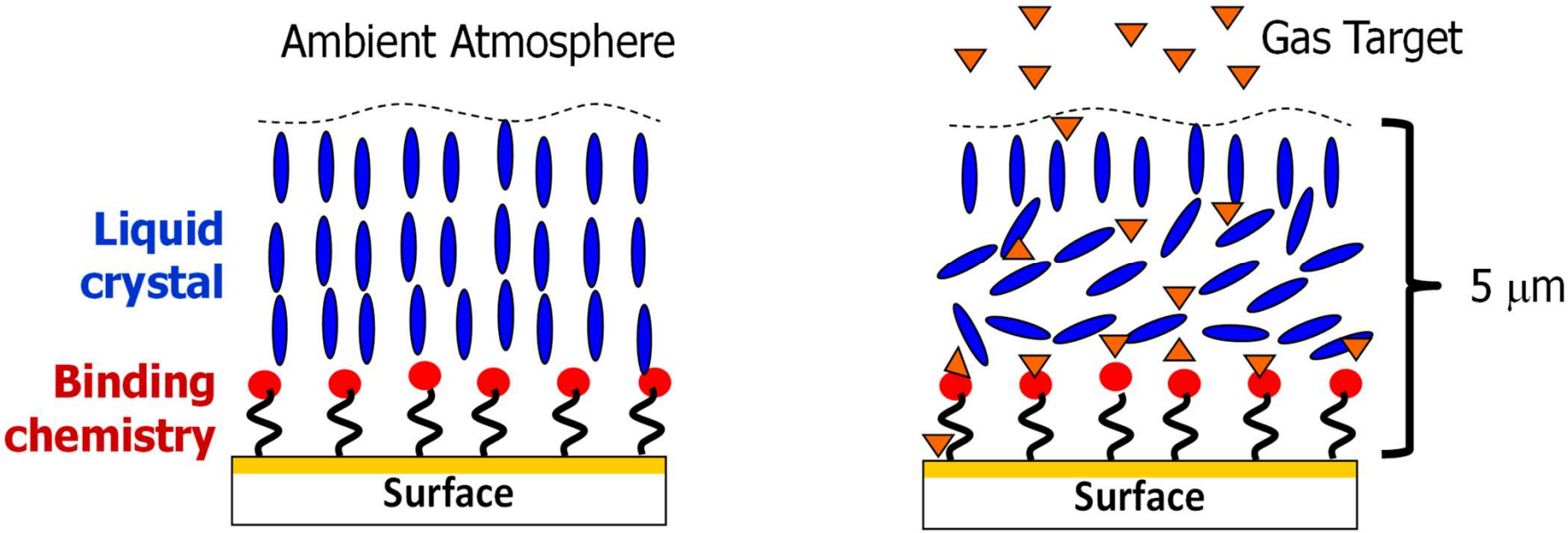
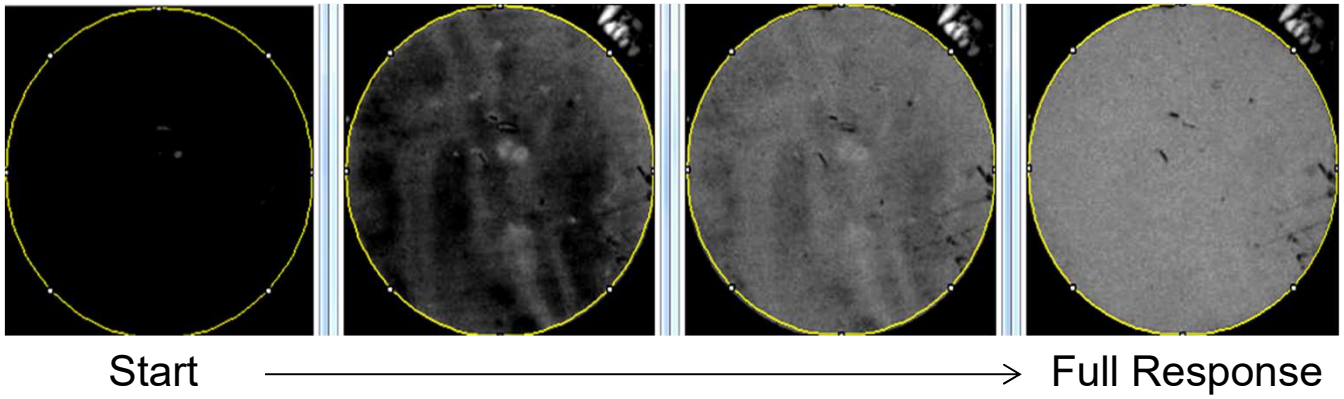
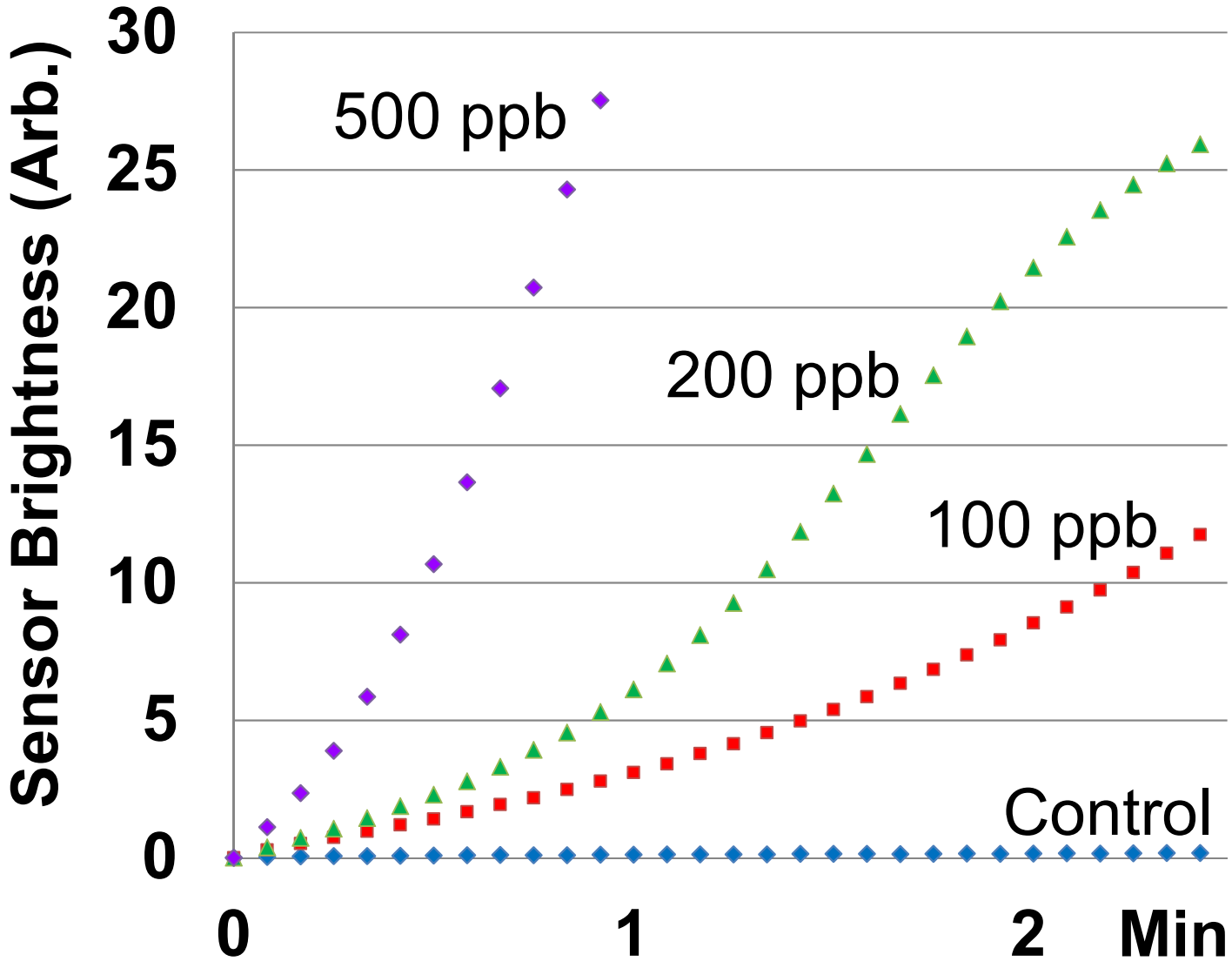
Liquid Crystal Sensing

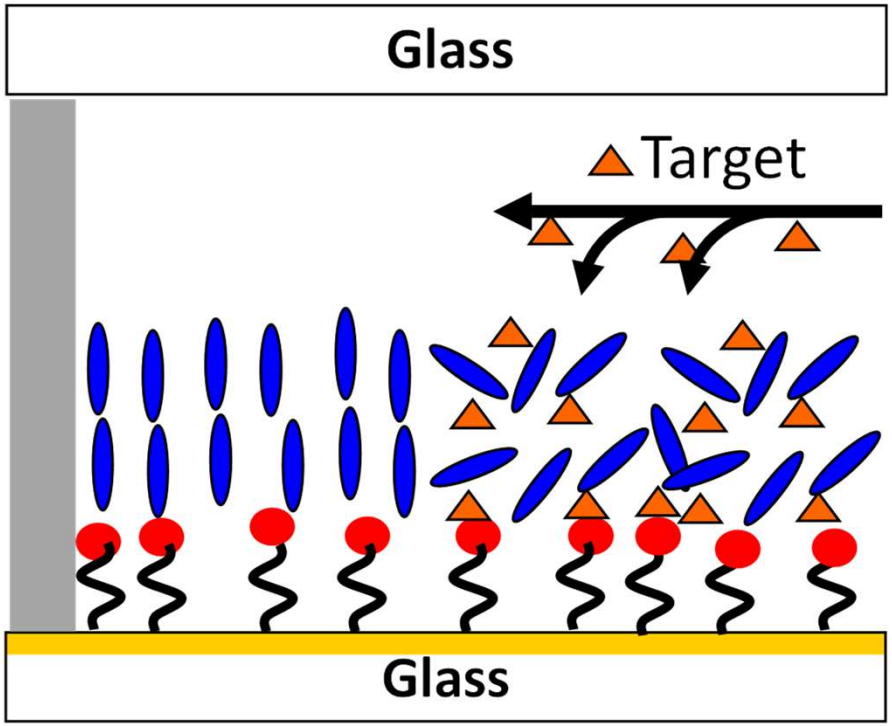




High Sensitivity H_2S

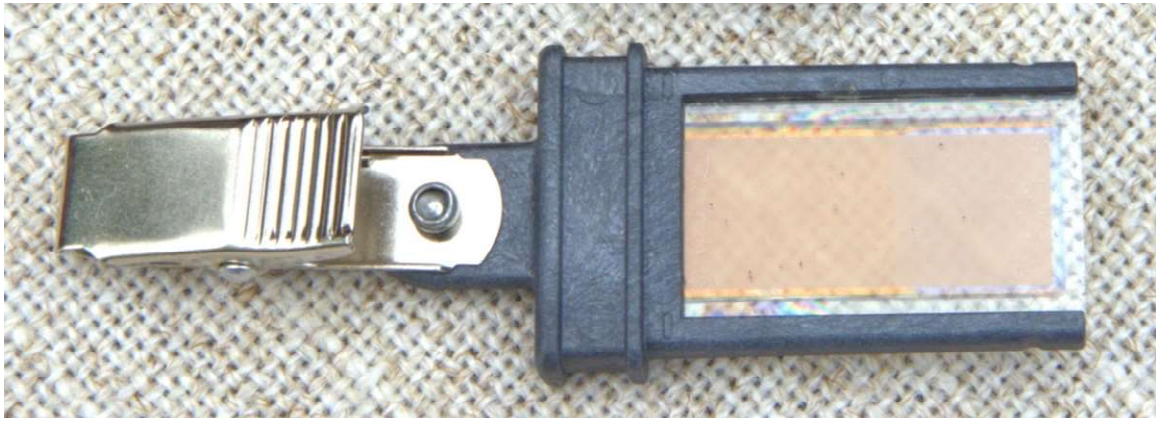


Dosimeter Format



Target (▲) Present

Dosimeter Response



T= 0
0 ppm·hr

T = 3 min
1 ppm·hr

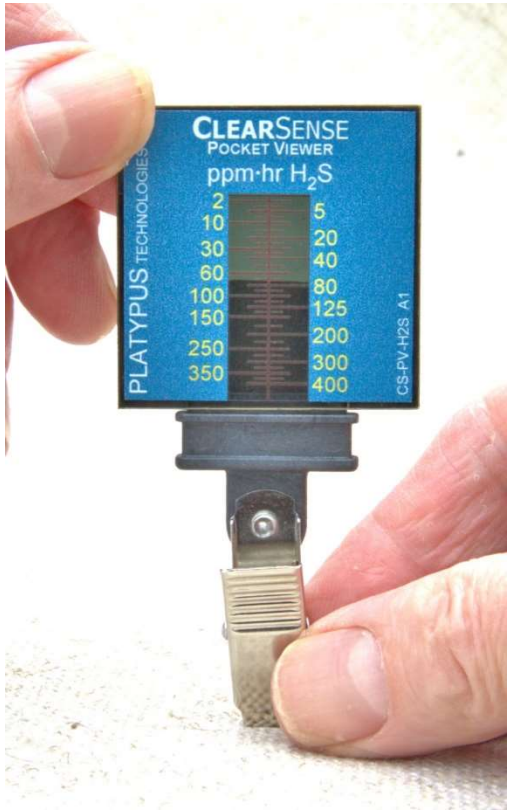
T = 60 min
20 ppm·hr

T = 3 hr
60 ppm·hr

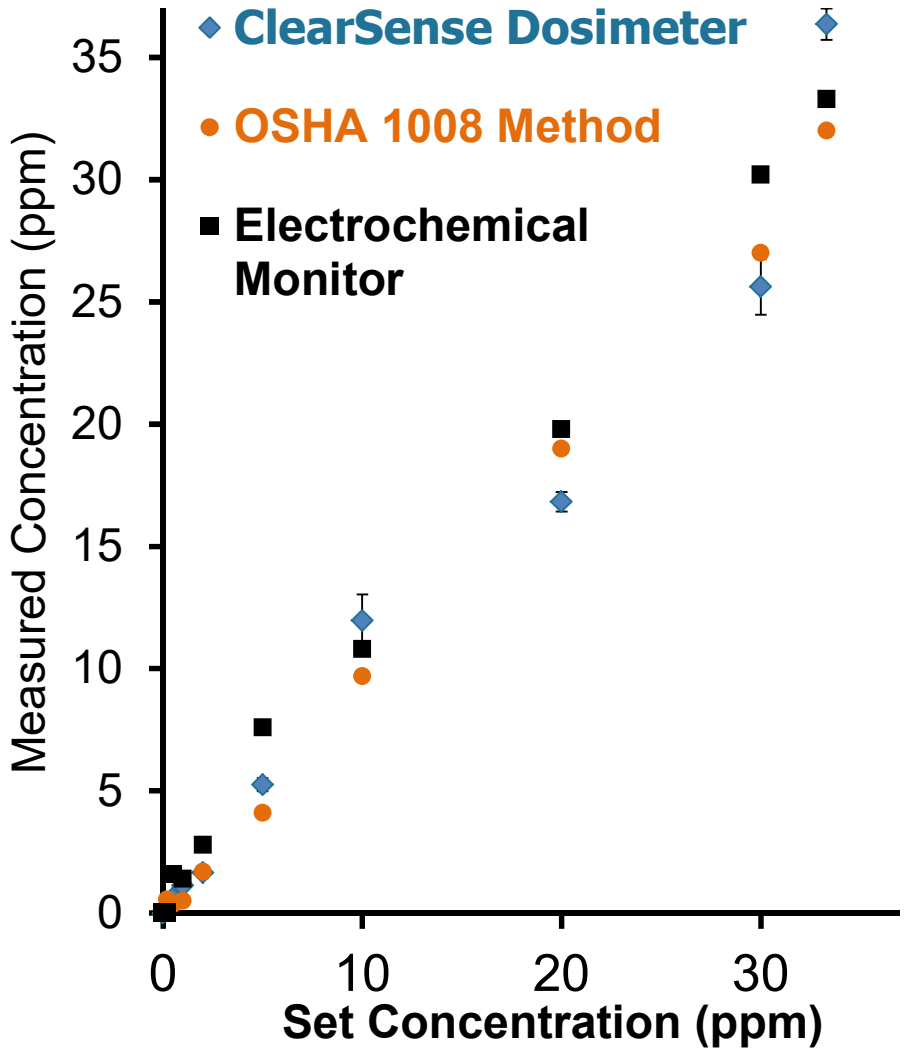
T = 8 hr
160 ppm·hr

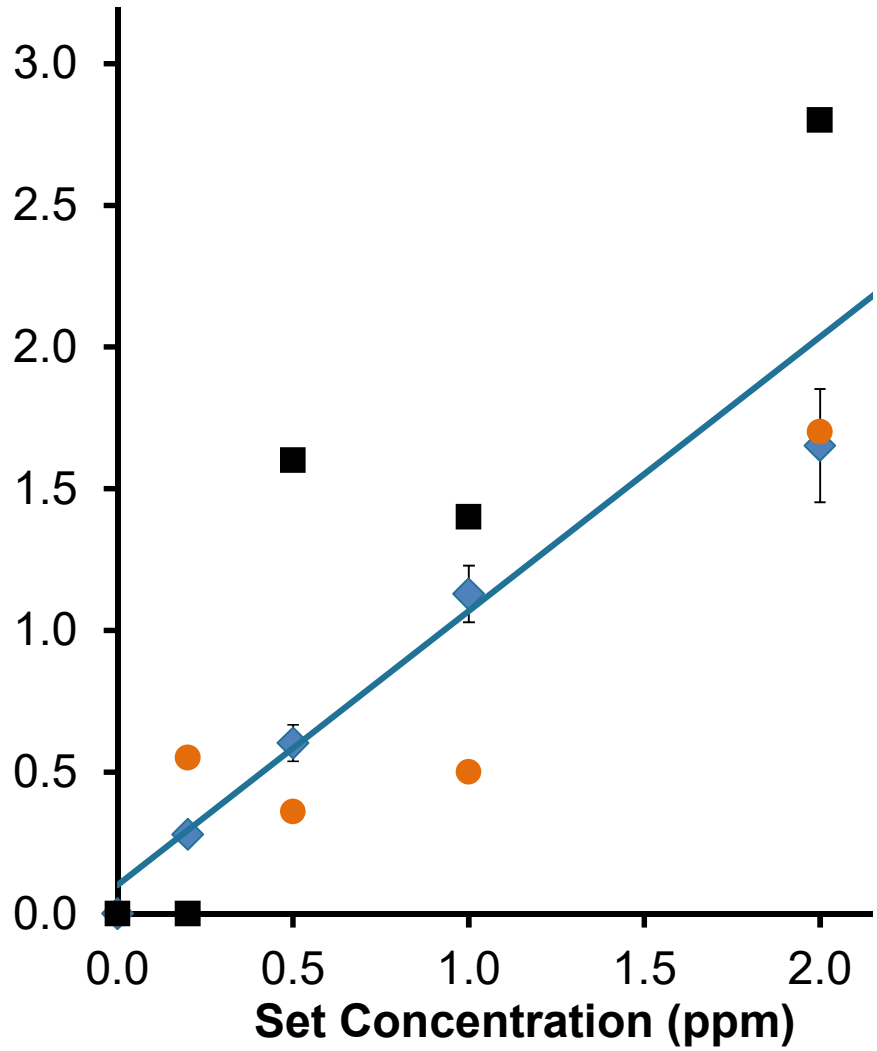
T = 12 hr
240 ppm·hr

ClearSense™ H_2S Dosimeter

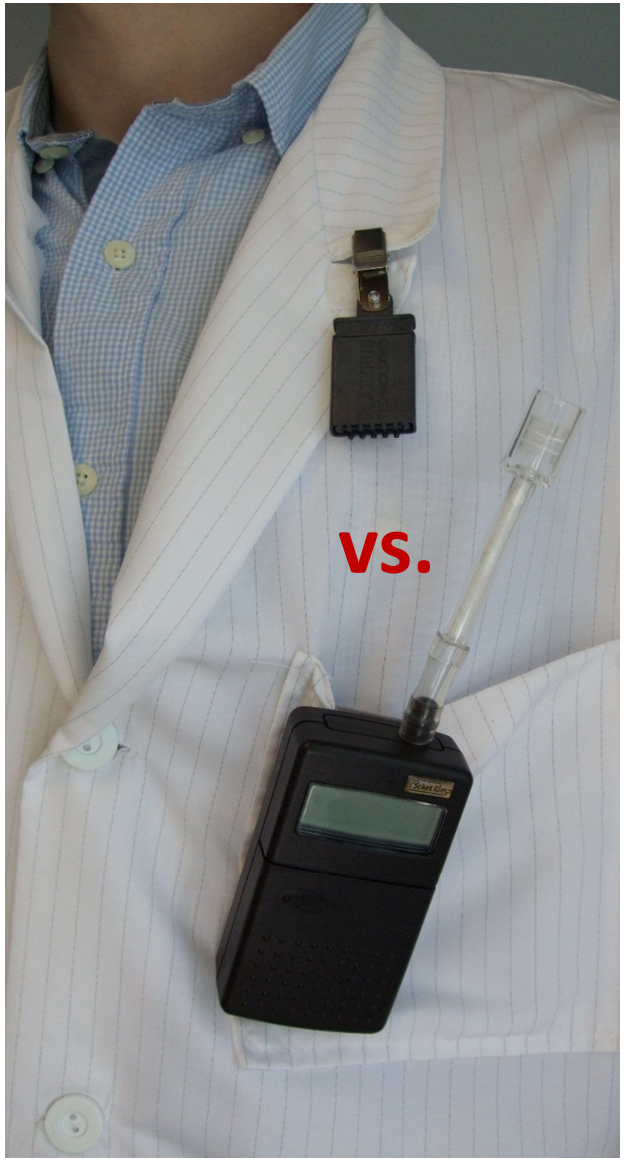


Equivalent to Lab Analysis of Sample Tubes





Dosimeter vs. Sample Tube

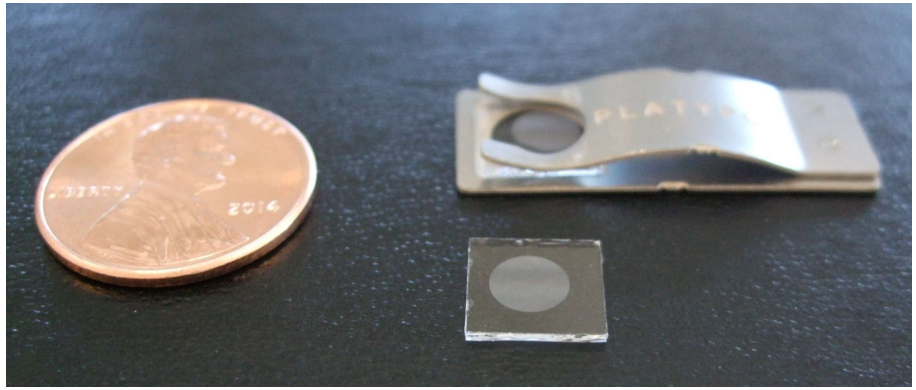


Dosimeter Benefits

- Simply Expose and Read
- High Quality Results
- Measure For Up To 2 Weeks
- Measure ppb Levels
- Environmentally Robust
- Low Cost
- App

Monitor

> Standing-by <
Analyte: DMMP
Temp: 23.3C 51.1%RH
SELECT
ENTER
PLATYPUS
TECHNOLOGIES


2014

Development Targets

Gases:

Nitrogen Dioxide (NO_2)

Ammonia (NH_3)

Hydrogen Sulfide (H_2S)

Formaldehyde (HCHO)

BTEX / Benzene