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Your Company Name

Sample® Home Inspection Company

100 Stanley Ave
Toronto, ON L6X 4M9
647-448-4125

Your Company Address and Phone Number

PROPERTY NAME

Customers Property Name

123 Main St, Atlanta, GA, 30301

Customers Property Description

DigitalEnvironment

Powered by Digital Environment

Property Summary report for: PROPERTY NAME

123 Main St, Atlanta, GA, 30301

Home Inspector performing the Air Quality Survey

Owner: John2 Sander[illegible] (danielshimko+demo@digienv.com)

Manager of the Home Inspector
*Possibly the same as the Home Inspector

Creator: Daniel Shimko (danielshimko86@gmail.com)

Sensors: Audio via Android/iOS, GPS via Android/iOS, Images via Android/iOS, Notes via Android/iOS, Pocket Particle AQI 2.0, BLE

Pocket Particle 2.0 Summary of all the Property Rooms Air Quality Readings

Room	# of Meas. collected	PM2.5 Min (µg/m³)	PM2.5 Average (µg/m³)	PM2.5 Max (µg/m³)	PM10 Min (µg/m³)	PM10 Average (µg/m³)	PM10 Max (µg/m³)
Exterior	23	5.2	8.2	14.0	4.0	5.3	6.0
Family Room	23	7.4	9.5	12.0	4.0	5.0	6.0
Washroom Recent Shower	23	8.0	192.6	999.0	5.0	50.9	305.2
Basement Mold Detected	23	7.4	79.2	357.4	6.0	67.2	293.6
Kitchen	25	5.0	16.0	43.0	4.0	5.3	7.0

Room	# of Meas. collected	VOC Min (ppb)	VOC Average (ppb)	VOC Max (ppb)	eCO2 Min (ppm)	eCO2 Average (ppm)	eCO2 Max (ppm)
Exterior	23	0.0	0.4	1.8	400.0	403.5	415.4
Family Room Improper Ventilation	1027.2	2165.2	7897.4	2150.0	2680.0	5364.2	
Washroom	23	10.0	23.5	33.6	466.0	557.8	621.2
Basement	23	0.0	14.7	74.4	400.0	499.2	891.0
Kitchen	25	5.8	455.5	2070.2	440.8	1363.1	2632.8

Recent Cleaning or Cooking

This page is used to and explain the results of the Air Quality and Mold Detection Survey to the customer

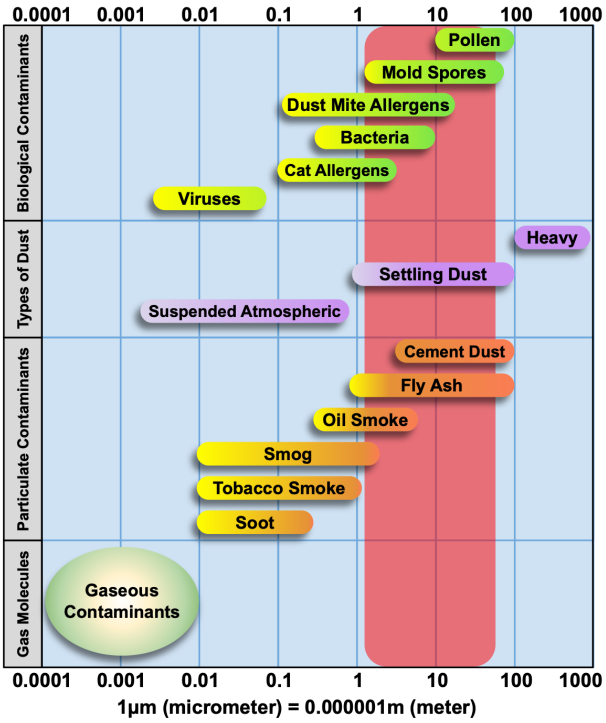
WHAT DOES THE AIR QUALITY SURVEY DATA MEAN?

PM2.5 & PM10 - Particulate Matter:

Reductions in airborne particulate matter have been shown to have a wide range of positive effects[1]. The toxicity of particulate matter depends on the type of particulate matter, but elevated particulate levels of all types have been associated with adverse health effects.

PM2.5/10 (µg/m³)	LEVEL [2]	MEANING
0 - 49.9	Good	Air quality is considered satisfactory air pollution poses little or no risk
50 - 99.9	Moderate	Air quality is acceptable
100 - 149.9	Unhealthy for Sensitive Groups	Members of sensitive groups may experience health effects
150 - 199.9	Unhealthy	Everyone may begin to experience health effects
200 - 299.9	Very Unhealthy	Health Alert: Everyone may experience more serious health effects
> 300	HAZARDOUS	Health Warning: Emergency conditions

Particulate Matter (PM) Sizes - micrometers (µm) [6]



1µm (micrometer) = 0.000001m (meter)

eTVOC - Equivalent Total Volatile Organic Compound:

Total VOC concentration represents all VOCs in the air. Some types of VOCs like formaldehyde are very dangerous and should be monitored at lower levels. Below is guidance published by the German Federal Environmental Agency that allows for direct comparison to the assessment data readings.

eTVOC (ppb)	LEVEL	EXPOSURE LIMIT	RECOMMENDATIONS [3]
0 - 64.9	Background	No Limit	No action required
65 - 219.9	Normal	No Limit	Ventilation recommended
220 - 659.9	Elevated	< 12 Months	Ventilation recommended, look for sources
660 - 2,199.9	High	< 1 Month	Intensified ventilation, look for sources
> 2,200	Dangerous	Hours	Should be avoided, intense ventilation

eCO2 - Carbon Dioxide Equivalent:

Elevated levels of carbon dioxide can cause headache and fatigue, while very high concentrations can cause dizziness, nausea, and vomiting. Extremely high levels can cause loss of consciousness and even death.

eCO2 (ppm)	LEVEL	HEALTH EFFECTS [4–5]
400.0	Background	Minimum atmospheric level for outdoor air
400.1 - 999.9	Normal	Typical normal concentrations found in indoor air
1,000 - 1,999.9	Elevated	Symptoms will begin to develop, starting with drowsiness
2,000 - 4,999.9	High	Headaches, sleepiness, poor concentration, increased heart rate & slight nausea
> 5,000	Dangerous	Dizziness, fatigue, nausea, vomiting, loss of consciousness and death

[1] Fisk, W.J. (2013). Health benefits of particle filtration. Indoor Air,23(5), 357-368. doi:10.1111/ina. 12036
[2] https://www.airnow.gov/index.cfm?action=aqibasics.aqi#good
[3] http://www.innenraumanalytik.at/pdfs/handreichung.pdf
[4] https://www.dhs.wisconsin.gov/chemical/carbondioxide.htm
[5] https://ohsonline.com/articles/2016/04/01/carbon-dioxide-detection-and-indoor-air-quality-control.aspx?m=1
[6] https://www.medical-reference.net/2014/01/what-are-particulate-matter-25.html
https://www.dcceew.gov.au/environment/protection/npi/substances/fact-sheets/particulate-matter-pm10-and-pm25
https://www.safeworkaustralia.gov.au/doc/workplace-exposure-standards-airborne-contaminants-2022

DigitalEnvironment

Elevated Indoor Air Quality Readings? Possible Sources and Potential Solutions

$PM_{2.5}$ & PM_{10} - Particulate Matter

Sources	Solutions
Pollen, heavy dust, bacteria, pet allergens, fly ash, cement dust, oil smoke	Install an indoor air purification system
Recent cooking, showering or using an brand new oven	Increase air ventilation when cooking and showering
Burning of candles, fireplaces, wood, fuels, tobacco	Eliminate indoor smoking and burning of materials
Recent construction, drywall, sanding, flooring, etc.	Follow up with indoor air quality lab testing
Visible or hidden dry / dead mold will cause airborne mold spores	Locate and remediate any visible sources of mold

eTVOC - Equivalent Total Volatile Organic Compounds

Sources	Solutions
New items in the property such as, carpets, drapes, furniture, flooring, drywall, etc.	Increase air circulation and ventilation when new sources of VOCs are brought into the property
Burning of fuels such as gas, wood and kerosene and tobacco products	Identify and eliminate items that constantly off gas VOC
Perfumes, hair spray, cleaning agents, dry cleaning fluid, paints and paint thinner, lacquers, varnishes, hobby supplies, alcohols, vinegars, gas leaks	Follow manufacturers labels when using household chemicals and cleaning solutions
Formaldehyde, one of the most common VOC, It is common in many building materials such as plywood, particleboard and glues	Install an indoor air purification system and / or UV light air cleaning system
Mold can off gas a number of different VOCs	Follow up with indoor air quality lab testing

eCO_2 - Carbon Dioxide Equivalent

Sources	Solutions
The earth's atmosphere contains 400 ppm CO_2	Increase air circulation and ventilation
Byproduct of normal human functions (exhaling)	Examine the HVAC system is operating efficiently
Excessive number of people in a property	Open the property windows
Improper ventilation or an unbalanced HVAC system	Turn on exhaust fans
Burning fossil fuels or decaying vegetation	Increase the number of times the HVAC fan runs per day

DISCLAIMER

The information given by the Service is for general guidance on matters of interest only. Even if the Company takes every precaution to ensure that the content of the Service is both current and accurate, errors can occur. Plus, given the changing nature of laws, rules and regulations, there may be delays, omissions or inaccuracies in the information contained on the Service. The Company is not responsible for any errors or omissions, or for the results obtained from the use of this information. The Company is not responsible for any inaccurate or challenged air quality survey results obtained by using the Pocket Particle AQI 2.0 Sensor and Digital Environment Air Quality Survey System.

1st Room of the Property - Exterior Area Control Survey

Room Summary report for: Exterior

Control Air Quality readings from outside the property

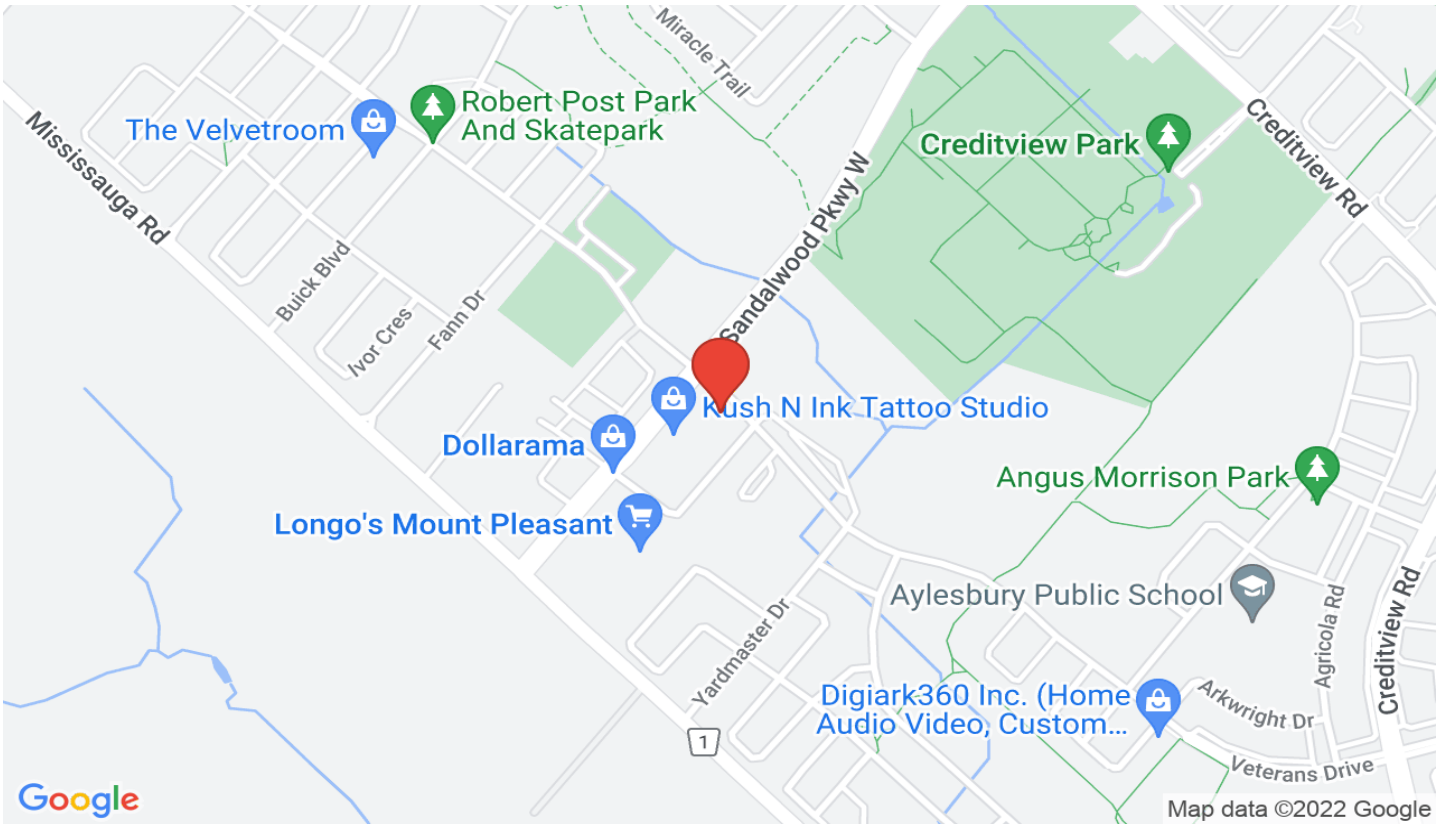
Room Description

Participants: John2 Sanders2

Sensors: Pocket Particle 2.0, Images

Last Updated: 12/12/2022 10:53 am EST

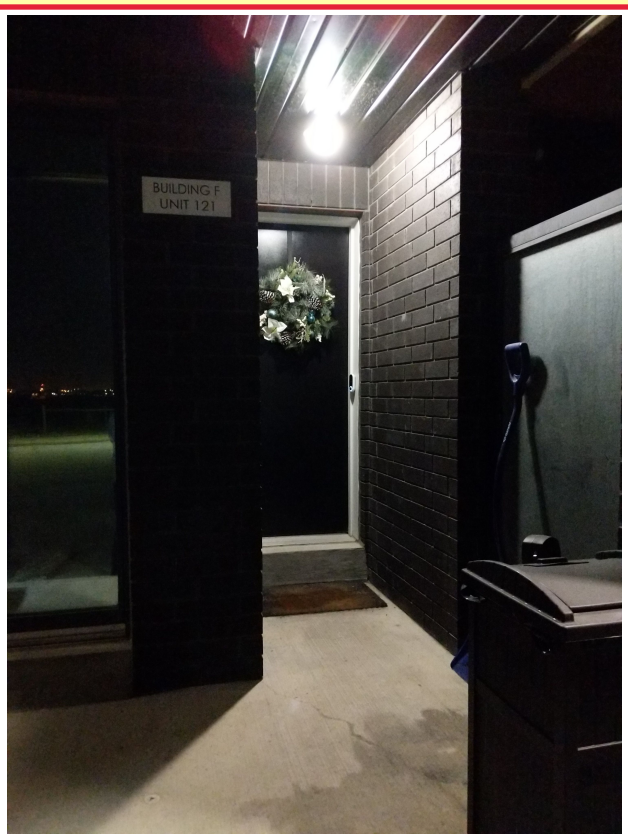
Location: 43.68119878, -79.84188322

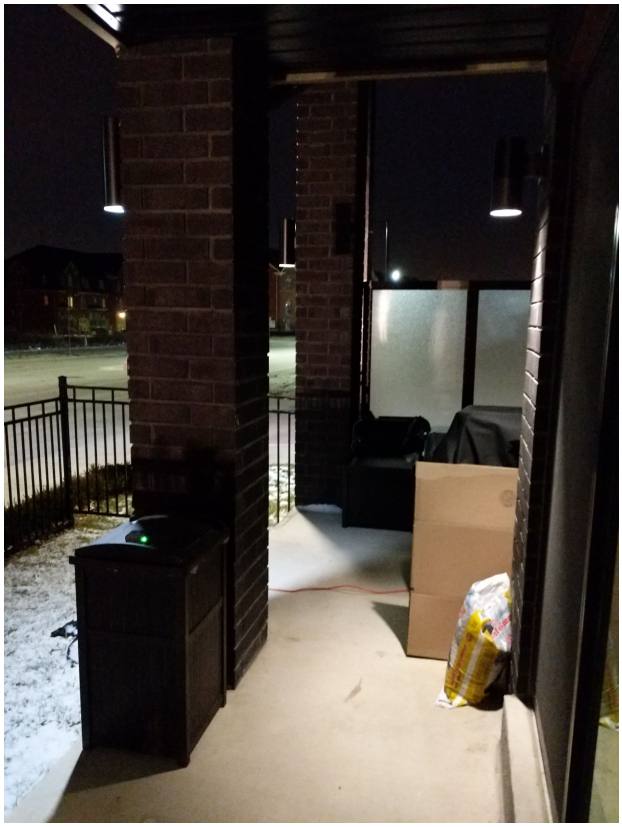


GPS Map location of the room being surveyed

Images

Pictures of the Room / Area that are taken within the mobile app can be included in the report (Up to 4 total)





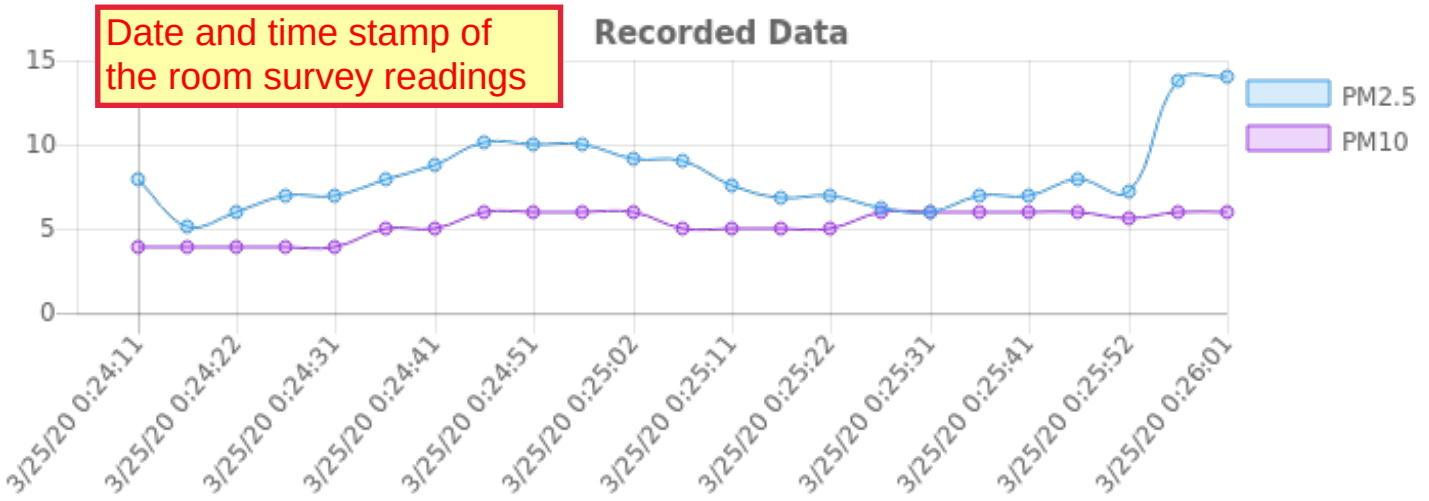
Pocket Particle 2.0

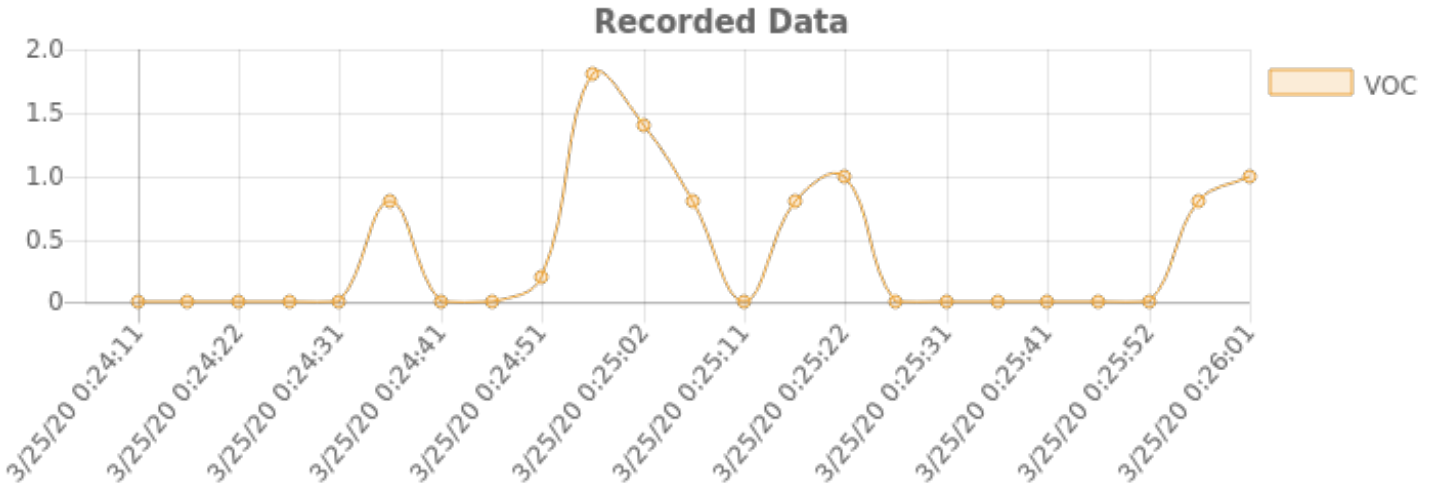
Summary of the room survey readings

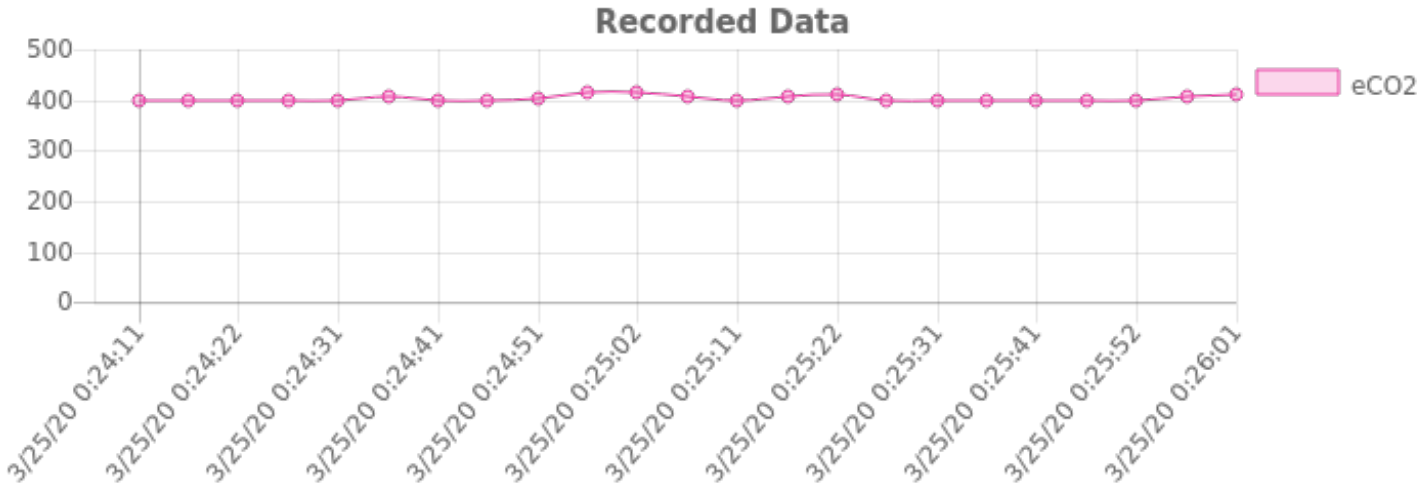
PM2.5 Average	PM10 Average	VOC Average	eCO2 Average
8.2 (µg/m³)	5.3 (µg/m³)	0.4 (ppb)	403.5 (ppm)

PM2.5 Min	PM2.5 Max	PM10 Min	PM10 Max	VOC Min	VOC Max	eCO2 Min	eCO2 Max
5.2 (µg/m³)	14.0 (µg/m³)	4.0 (µg/m³)	6.0 (µg/m³)	0.0 (ppb)	1.8 (ppb)	400.0 (ppm)	415.4 (ppm)

Date and time stamp of the room survey readings



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3/25/20 0:25:31
3/25/20 0:25:41
3/25/20 0:25:52
3/25/20 0:26:01

2nd Room of the Property - Survey Report Details

Room Summary report for: Family Room

Main Floor - 300 square feet

Participants: John2 Sanders2

Sensors: Pocket Particle 2.0, Images

Last Updated: 12/12/2022 10:54 am EST

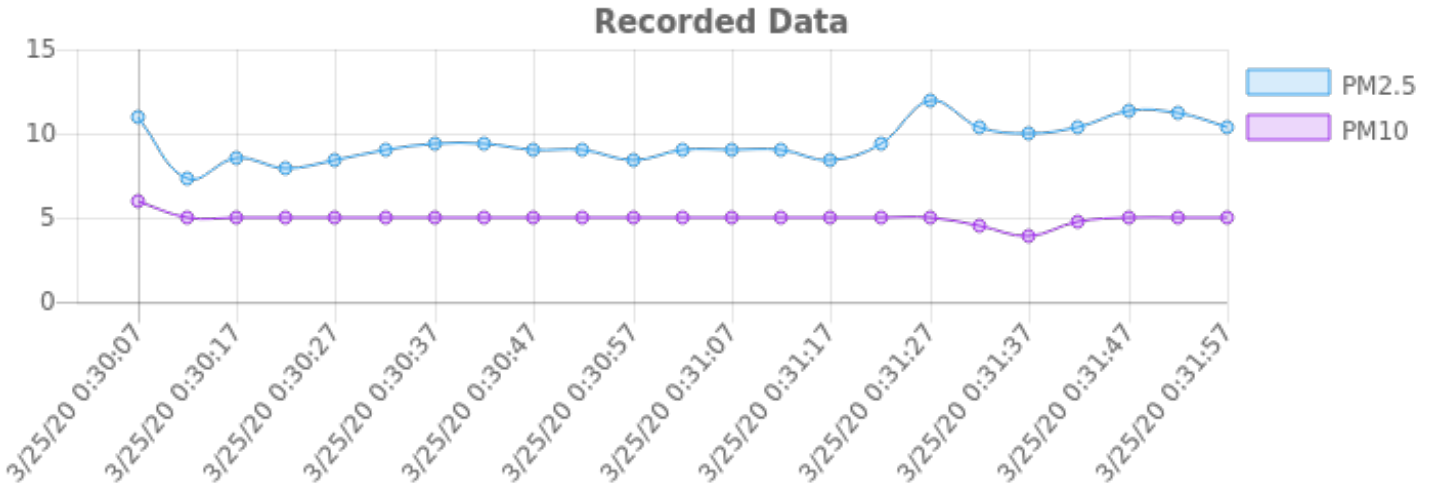
Location: 43.68093023, -79.84188324

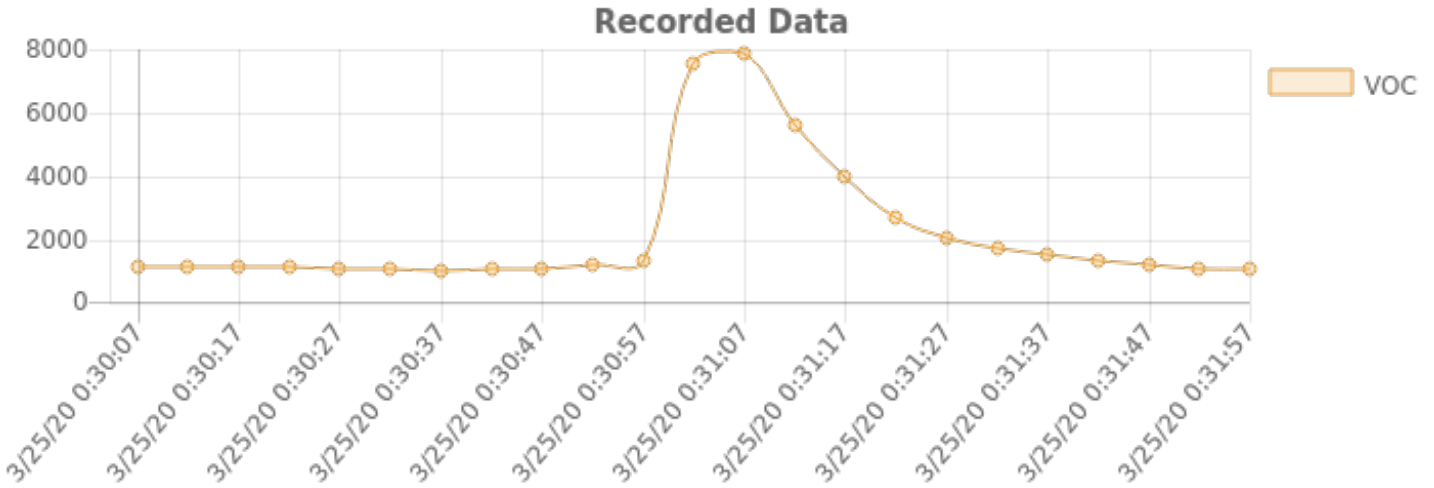
Images

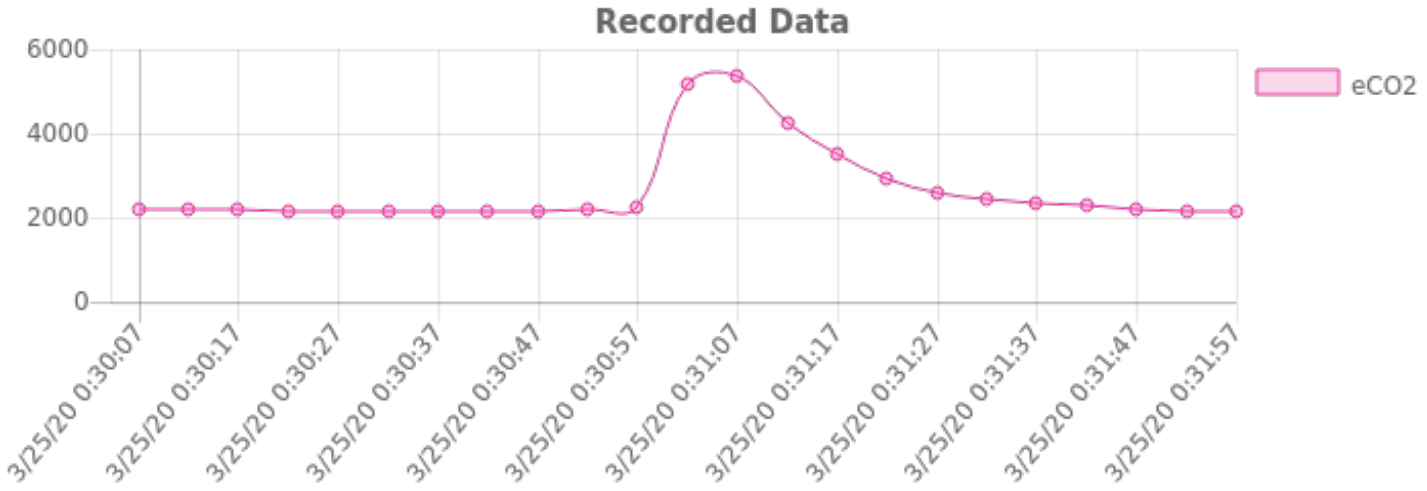
Pocket Particle 2.0

PM2.5 Average	PM10 Average	VOC Average	eCO2 Average
9.5 (µg/m³)	5.0 (µg/m³)	2165.2 (ppb)	2680.0 (ppm)

PM2.5 Min	PM2.5 Max	PM10 Min	PM10 Max	VOC Min	VOC Max	eCO2 Min	eCO2 Max
7.4 (µg/m³)	12.0 (µg/m³)	4.0 (µg/m³)	6.0 (µg/m³)	1027.2 (ppb)	7897.4 (ppb)	2150.0 (ppm)	5364.2 (ppm)



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3/25/20 0:31:27
3/25/20 0:31:37
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Room Summary report for: Washroom

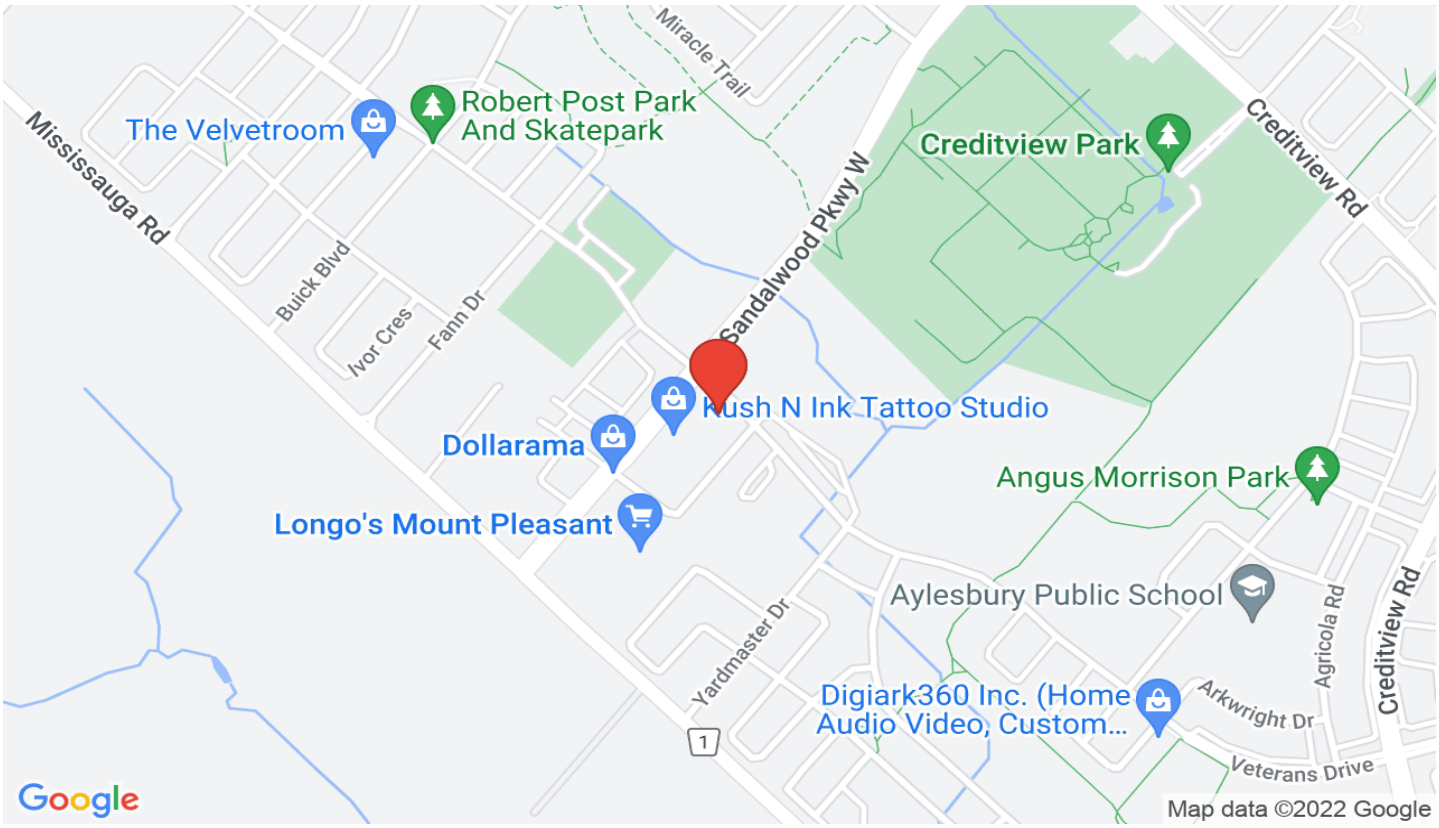
Main Floor - 80 square feet

Participants: John2 Sanders2

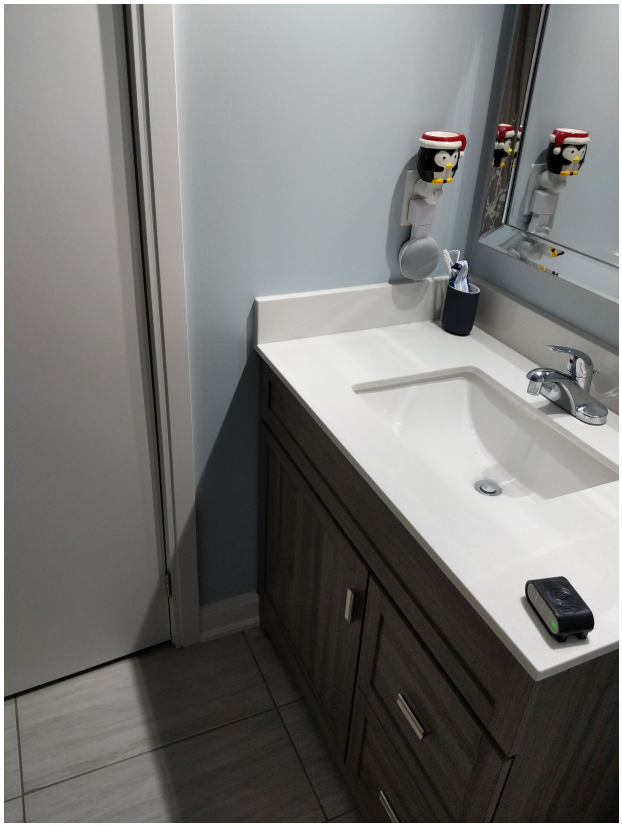
Sensors: Pocket Particle 2.0, Images

Last Updated: 3/25/2020 12:58 am EDT

Location: 43.681186, -79.84190625



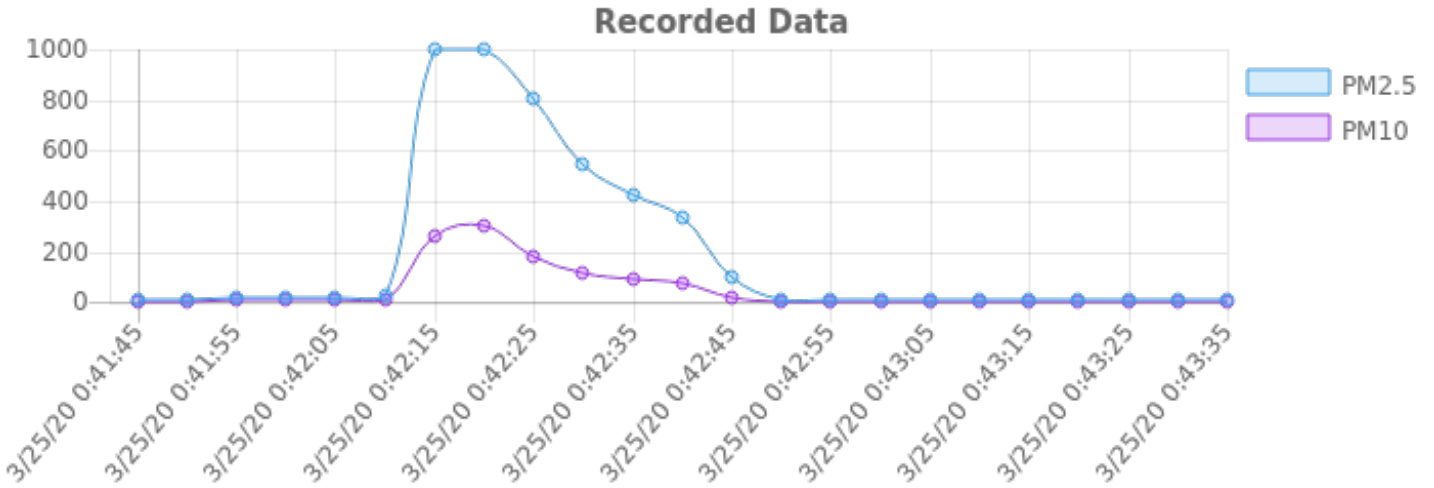
Images

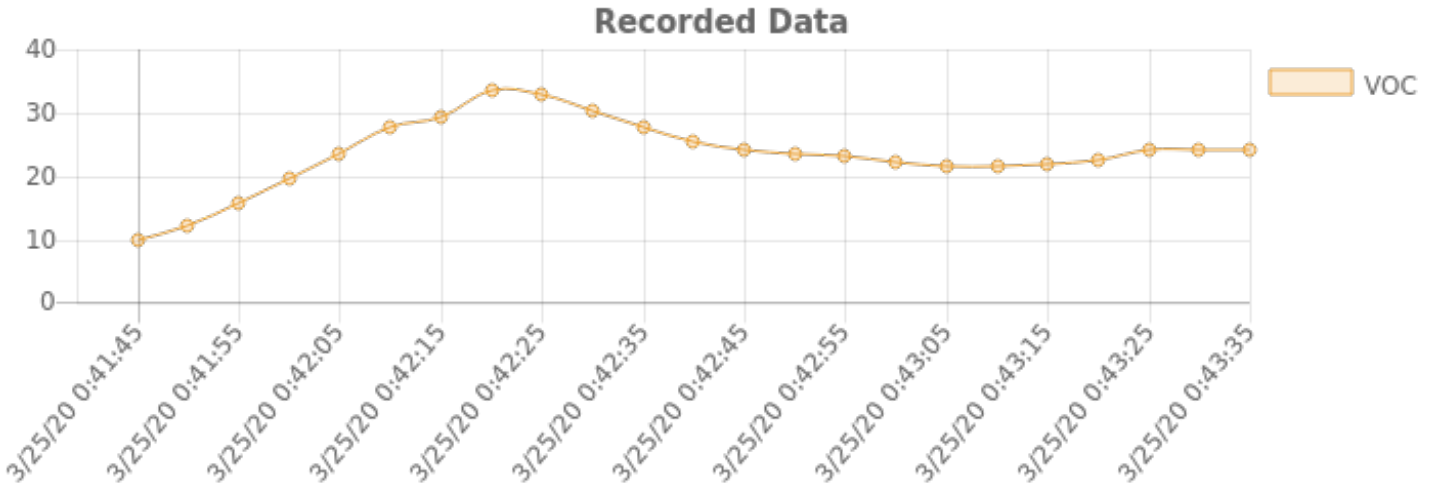


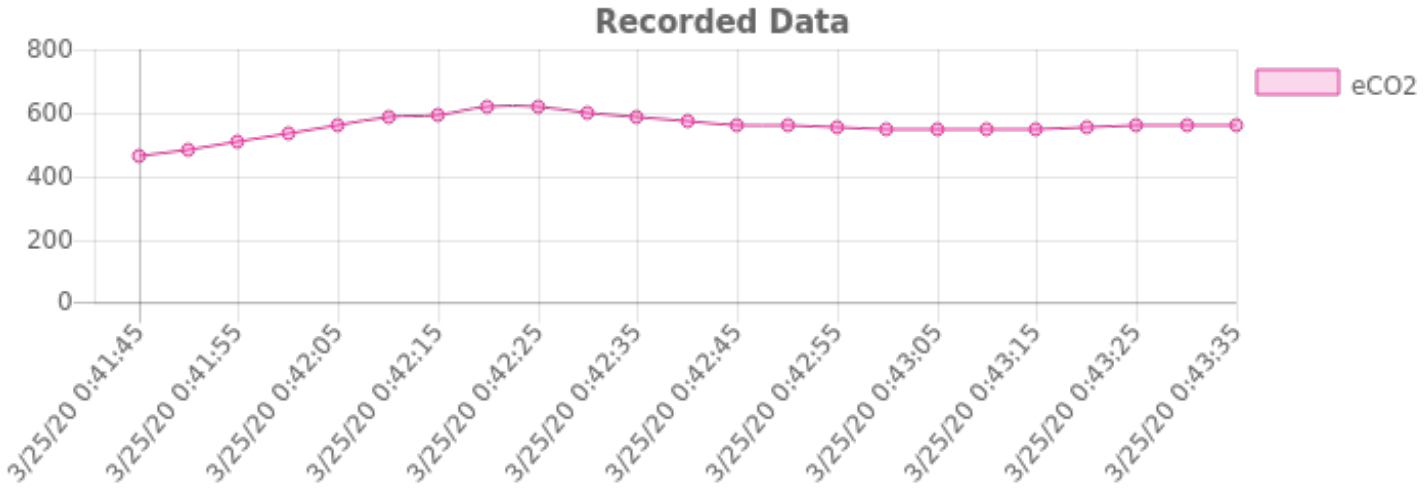
Pocket Particle 2.0

PM2.5 Average	PM10 Average	VOC Average	eCO2 Average
192.6 (µg/m³)	50.9 (µg/m³)	23.5 (ppb)	557.8 (ppm)

Min	Max	Min	Max	Min	Max	Min	Max
8.0 (µg/m³)	999.0 (µg/m³)	5.0 (µg/m³)	305.2 (µg/m³)	10.0 (ppb)	33.6 (ppb)	466.0 (ppm)	621.2 (ppm)



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eCO2

Room Summary report for: Basement

Basement - 500 square feet

Participants: John2 Sanders2

Sensors: Pocket Particle 2.0, Images

Last Updated: 12/12/2022 10:54 am EST

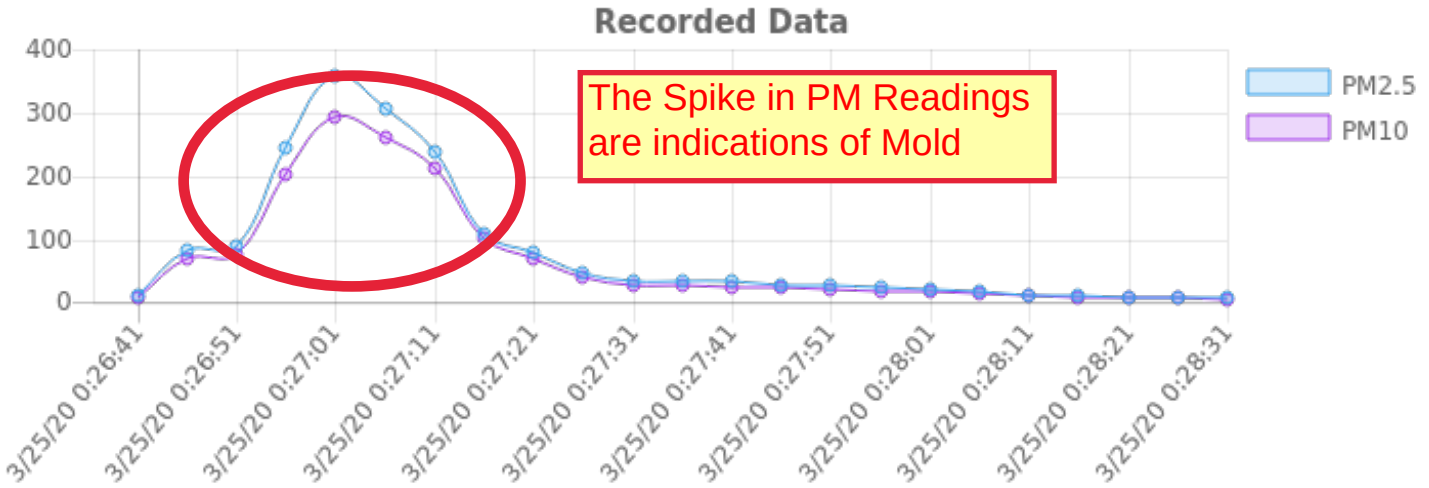
Location: 43.68135394, -79.84168778

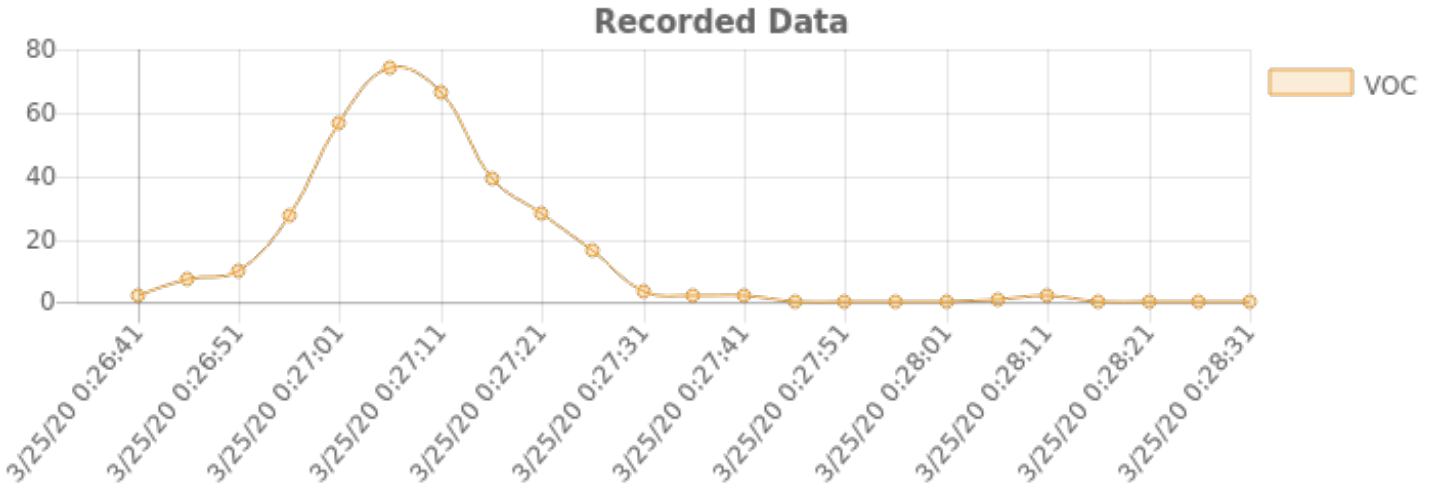
Images

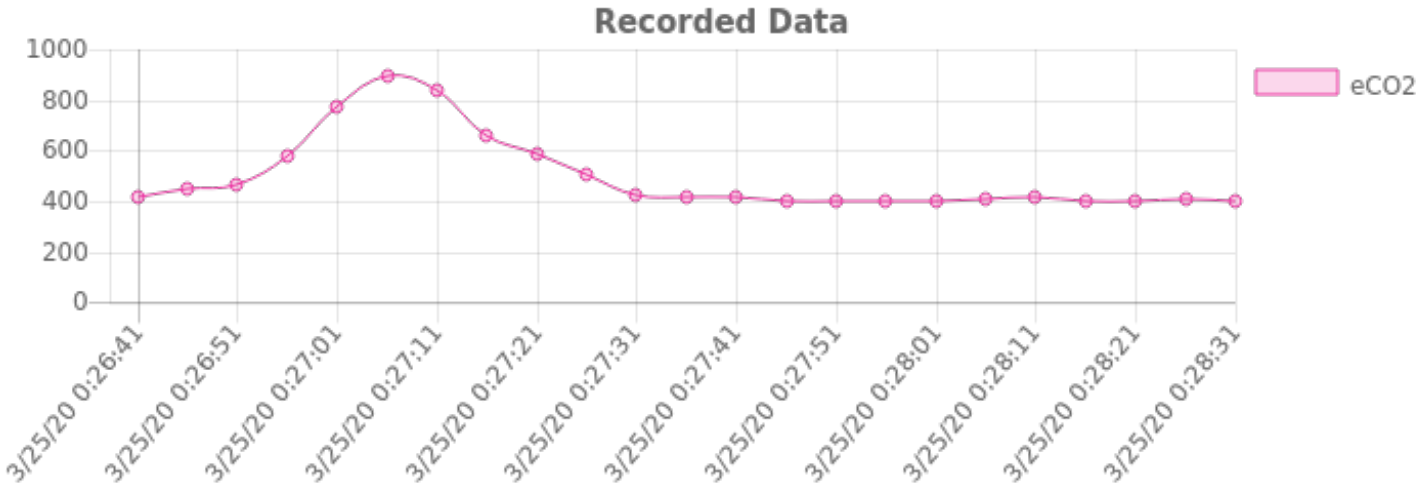
Pocket Particle 2.0

PM2.5 Average	PM10 Average	VOC Average	eCO2 Average
79.2 (µg/m³)	67.2 (µg/m³)	14.7 (ppb)	499.2 (ppm)

Min	Max	Min	Max	Min	Max	Min	Max
7.4 (µg/m³)	357.4 (µg/m³)	6.0 (µg/m³)	293.6 (µg/m³)	0.0 (ppb)	74.4 (ppb)	400.0 (ppm)	891.0 (ppm)



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Room Summary report for: Kitchen

Main Floor - 200 square feet

Participants: John2 Sanders2

Sensors: Pocket Particle 2.0, Images

Last Updated: 3/25/2020 12:57 am EDT

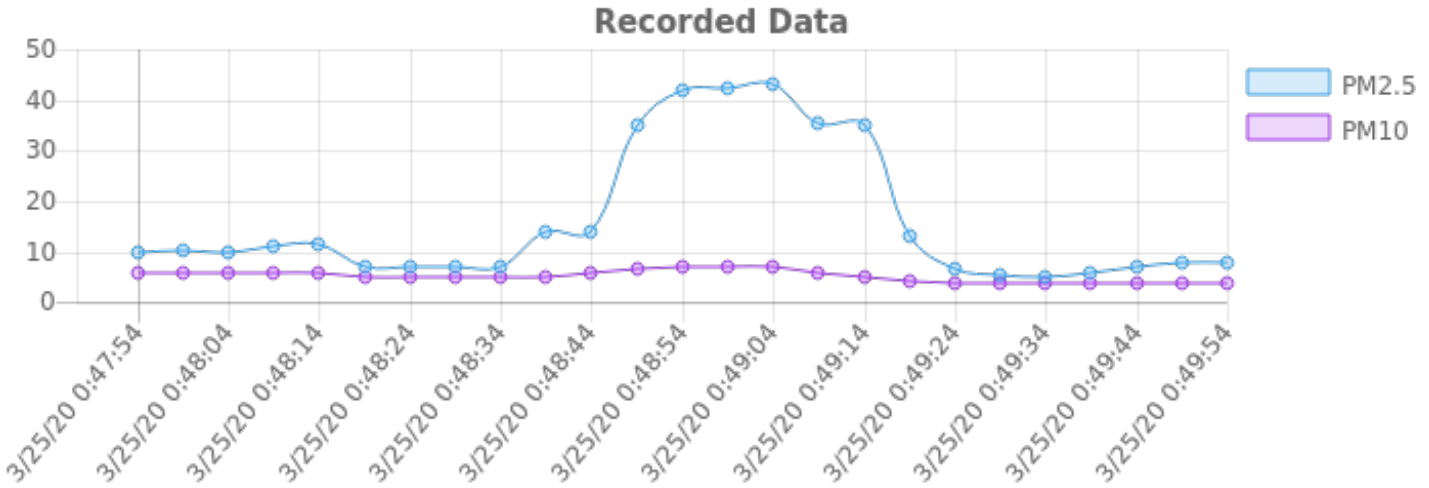
Location: 43.68132044, -79.84239984

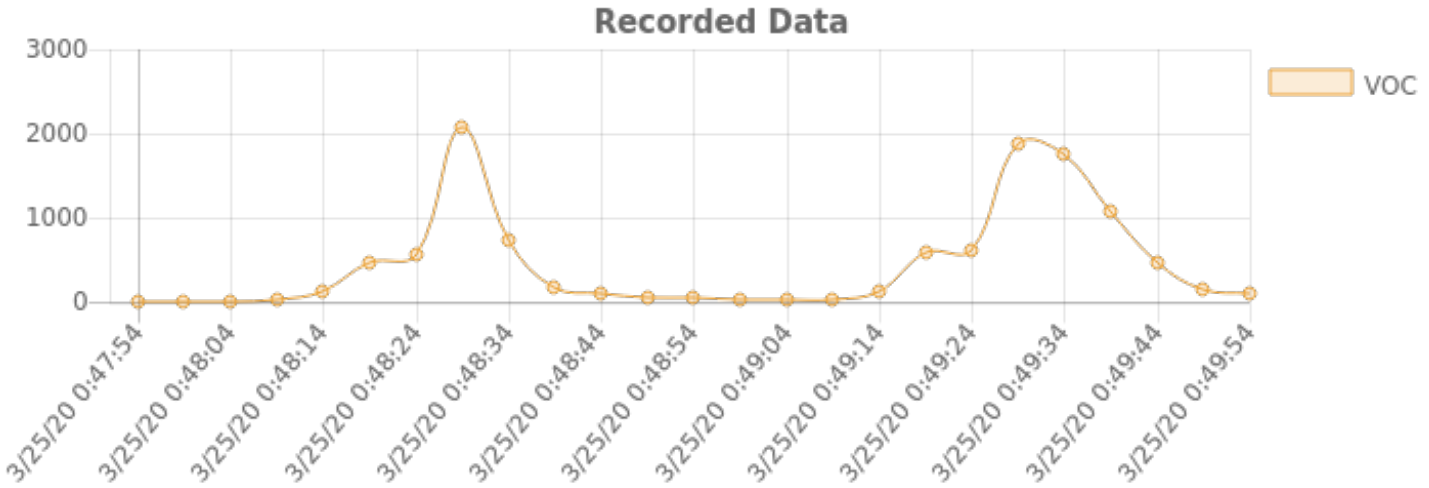
Images

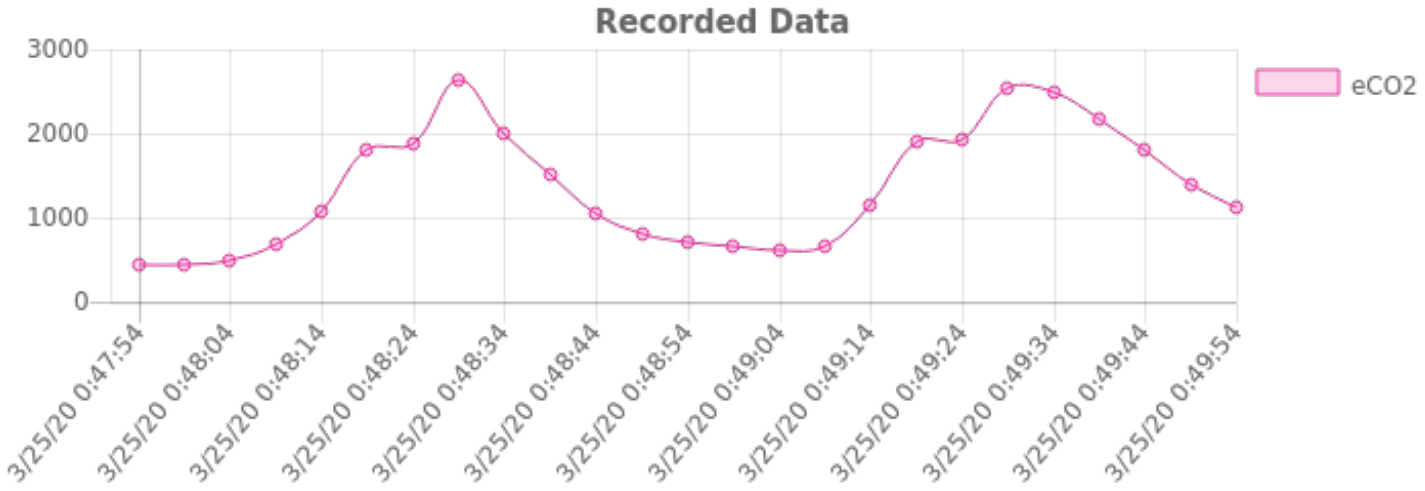
Pocket Particle 2.0

PM2.5 Average	PM10 Average	VOC Average	eCO2 Average
16.0 (µg/m³)	5.3 (µg/m³)	455.5 (ppb)	1363.1 (ppm)

PM2.5 Min (µg/m³)	PM2.5 Max (µg/m³)	PM10 Min (µg/m³)	PM10 Max (µg/m³)	VOC Min (ppb)	VOC Max (ppb)	eCO2 Min (ppm)	eCO2 Max (ppm)
5.0	43.0	4.0	7.0	5.8	2070.2	440.8	2632.8



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