

Field Evaluation AQMesh v5.1 - Gas



Background

- From 02/15/2021 to 04/15/2021, three **AQMesh v5.1** (hereinafter **AQMesh**) multi-sensor pods were deployed at the South Coast AQMD stationary ambient monitoring site in Rubidoux and were run side-by-side with Federal Equivalent Method (FEM) and Federal Reference Method (FRM) instruments measuring the same pollutants
- AQMesh (3 units tested):
 - Sensors: CO – Electrochemical (**Alphasense, non-FEM**)
 - O₃ – Electrochemical (**Alphasense, non-FEM**)
 - NO – Electrochemical (**Alphasense, non-FEM**)
 - NO₂ – Electrochemical (**Alphasense, non-FEM**)
 - SO₂ – Electrochemical (**Alphasense, non-FEM**)
 - PM Sensor – Optical Particle Counter (**AQMesh OPC v3.0, non-FEM**) ([evaluated in 2020](#))
 - Each unit measures: **CO (ppb), O₃ (ppb), NO, NO₂ and NO_x (ppb), SO₂ (ppb), PM_{1.0}, PM_{2.5} and PM₁₀ (μg/m³), T (°C), RH (%)**
 - **Unit cost: ~\$7,800 as tested (includes 5 gas pods + PM sensor, equipped with a heated inlet), price includes daily data downloads**
 - Time resolution: 5-min
 - Units IDs: 0381, 0383, 0385
- South Coast AQMD Reference instruments:
 - CO instrument (**FRM**); **cost: ~\$10,000**
 - Time resolution; 1-min
 - O₃ instrument (**FEM**); **cost: ~\$7,000**
 - Time resolution; 1-min
 - NO_x instrument (**FRM NO₂**); **cost: ~\$11,000**
 - Time resolution: 1-min
 - Met station (T, RH, P, WS, WD); **cost: ~\$5,000**
 - Time resolution: 1-min



AQMesh: Rebasing & Data Scaling

Rebasing

- Prior to this AQ-SPEC field evaluation, the AQMesh pods were required by the manufacturer to go through a stabilization process called “rebasing”. It is configured to rebase when it comes from the factory to allow the sensors to evaluate the environmental conditions they are operating and adjust accordingly
- AQMesh needs to be notified to trigger the rebasing process, which takes 48 to 72 hours to complete. Gas data were not available during the rebasing period but will be backfilled to the time when rebasing initiated

Data Scaling

- AQMesh provides pre-scaled and scaled values for all gas pollutants. Scaled values were calculated using AQMesh’s proprietary algorithms
- AQMesh’s scaled data were used in AQ-SPEC’s data analysis for all gas pollutants

AQMesh: Limit of Confidence (LOC)

- All gas measurement data collected during this field evaluation that were below AQMesh's limit of confidence (LOC) values (see AQMesh table below) were removed and not included in this analysis

Technical specification | Gas algorithm V5.1, PM algorithm V3.0h*

Gases

Sensor	Type	Units	Range ^{#1}	LOD	LOC ^{#2}	Precision ^{#3}	Accuracy ^{#4}
NO	Electrochemical	ppb or $\mu\text{g}/\text{m}^3$	0-20,000 ppb	<1 ppb	<5 ppb	>0.9	1 ppb
NO2	Electrochemical	ppb or $\mu\text{g}/\text{m}^3$	0-20,000 ppb	<1 ppb	<5 ppb	>0.85	4 ppb
NOx	Electrochemical	ppb or $\mu\text{g}/\text{m}^3$	0-40,000 ppb	<2 ppb	<10 ppb	>0.9	4 ppb
O3	Electrochemical	ppb or $\mu\text{g}/\text{m}^3$	0-20,000 ppb	<1 ppb	<5 ppb	>0.9	5 ppb
CO	Electrochemical	ppb or $\mu\text{g}/\text{m}^3$	0-1,000,000 ppb	<50 ppb	<50 ppb	>0.8	20 ppb
SO2	Electrochemical	ppb or $\mu\text{g}/\text{m}^3$	0-100,000 ppb	<5 ppb	<10 ppb	>0.7	20 ppb
H2S	Electrochemical	ppb or $\mu\text{g}/\text{m}^3$	0-100,000 ppb	<1 ppb	<5 ppb	>0.7	1 ppb
CO2	NDIR	ppm or mg/m^3	0-5,000 ppm	<1 ppm	<1 ppm	>0.9	30 ppm

#1 From sensor manufacturer's specification. This data was derived from independent lab tests. Standard test conditions are 20°C and 80% RH and in the absence of interfering gases. Tested range is -30°C to +30°C.

#2 Readings provided below this level, however due to interferences the level of uncertainty is greater than at higher levels of the target pollutant.

#3 Correlation co-efficient derived from extensive global co-location comparison testing against certified reference.

#4 Best "out of the box" accuracy without any local scaling/calibration against reference.

Source: <https://www.aqmesh.com/product/technical-specification/>

Carbon Monoxide (CO) in AQMesh

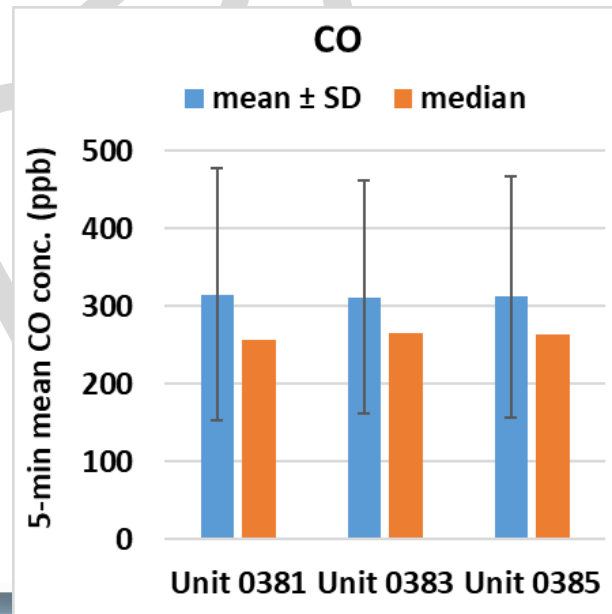
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Data validation & recovery

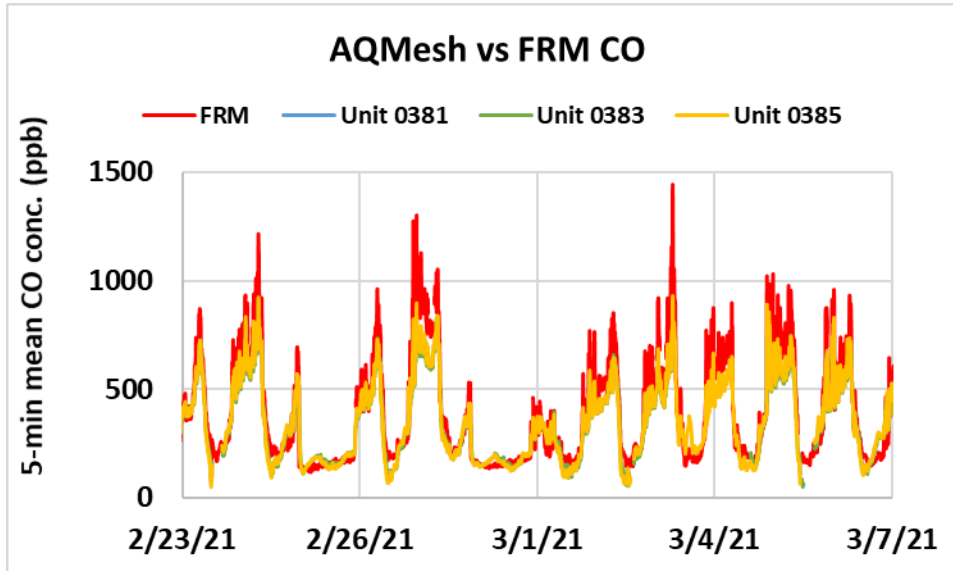
- Basic QA/QC procedures were used to validate the collected data (i.e., obvious outliers, negative values and invalid data-points were eliminated from the data-set)
- Data recovery for CO from Unit 0381, Unit 0383 and Unit 0385 was ~ 94%, 94% and 96%, respectively

AQMesh; Intra-model variability

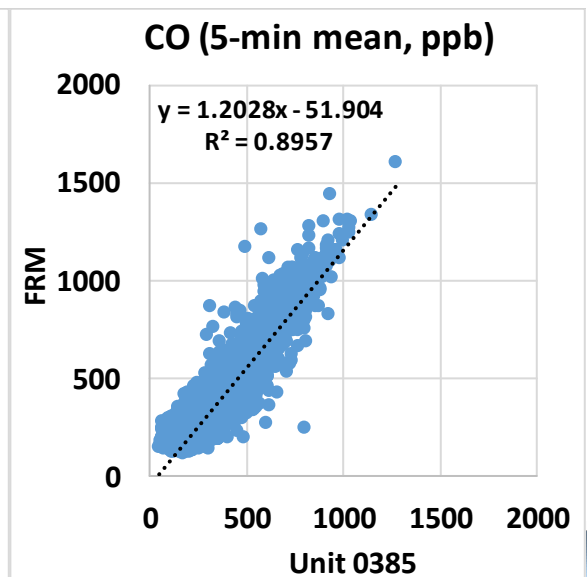
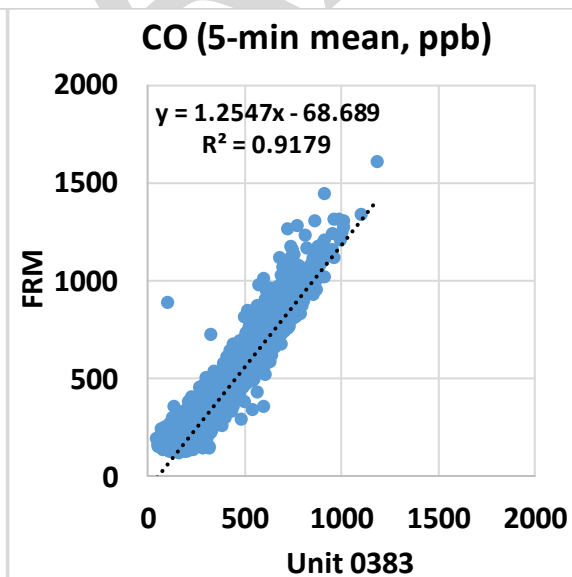
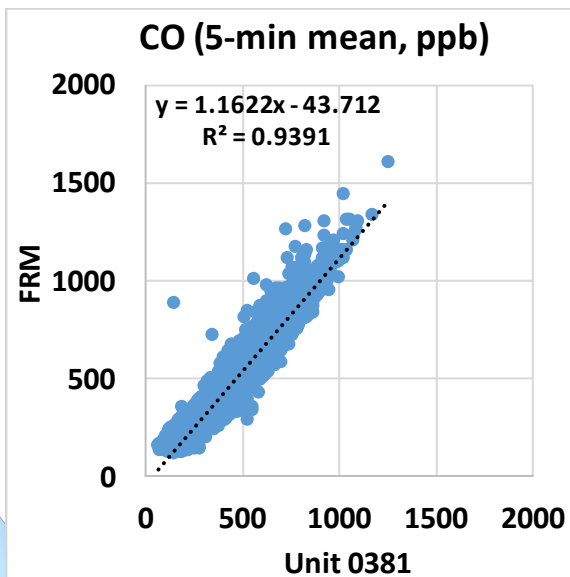
- Absolute intra-model variability was ~ 1.9 ppb for the CO measurements (calculated as the standard deviation of the three sensor means)
- Relative intra-model variability was ~ 0.6% for the CO measurements (calculated as the absolute intra-model variability relative to the mean of the three sensor means)



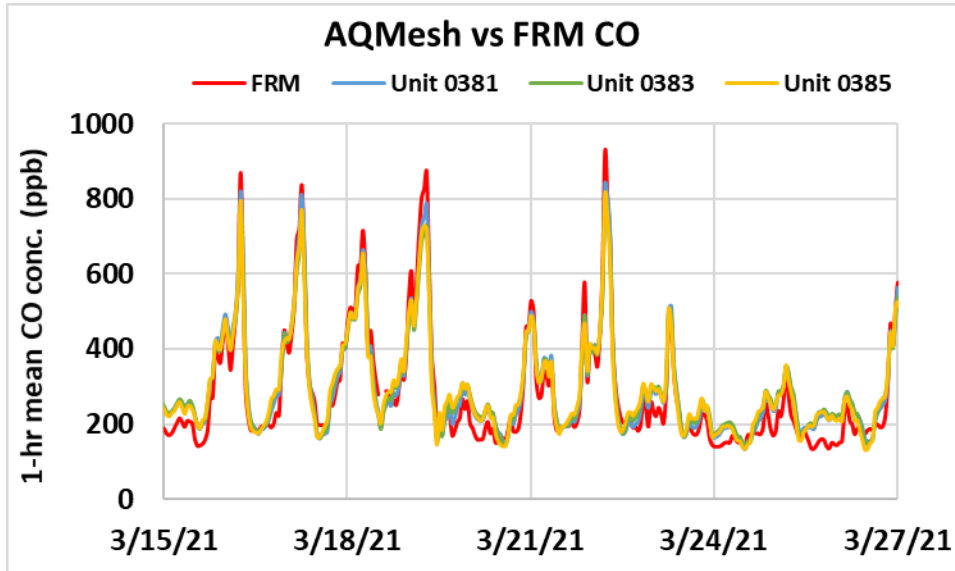
AQMesh vs FRM (CO; 5-min mean)



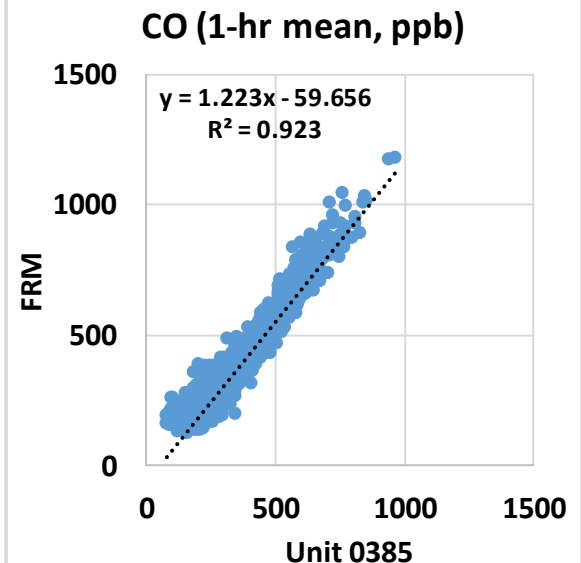
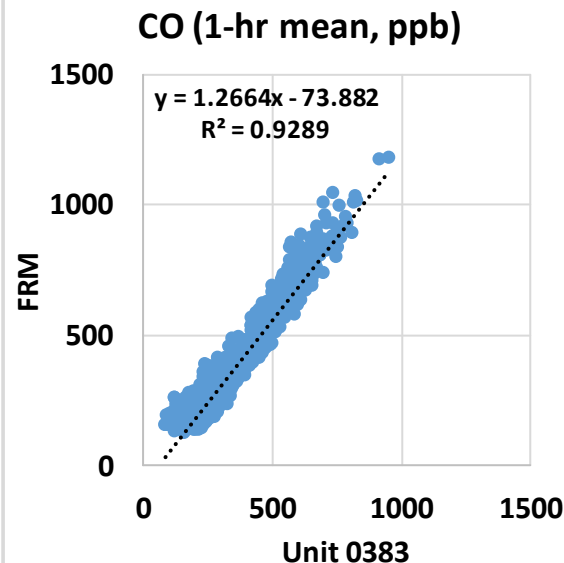
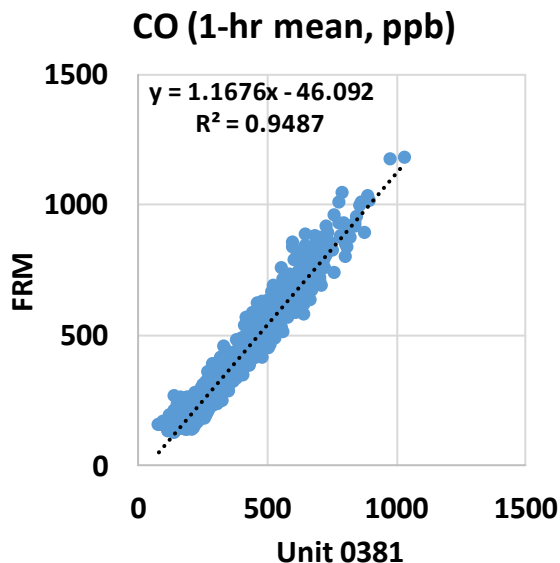
- The AQMesh sensors showed strong to very strong correlations with the corresponding FRM CO data ($0.89 < R^2 < 0.94$)
- Overall, the AQMesh sensors underestimated the CO concentrations as measured by the FRM CO instrument
- The AQMesh sensors seemed to track the diurnal CO variations as recorded by the FRM CO instrument



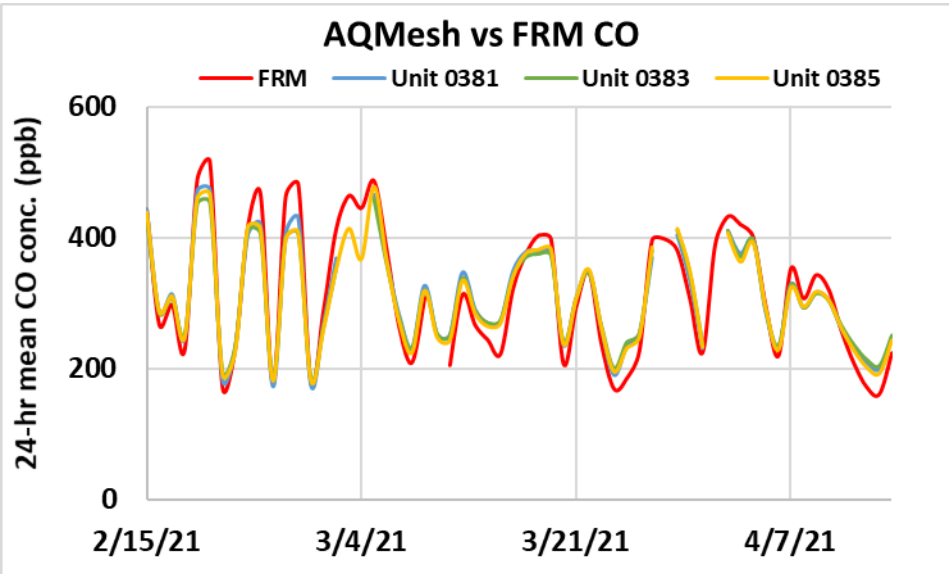
AQMesh vs FRM (CO; 1-hr mean)



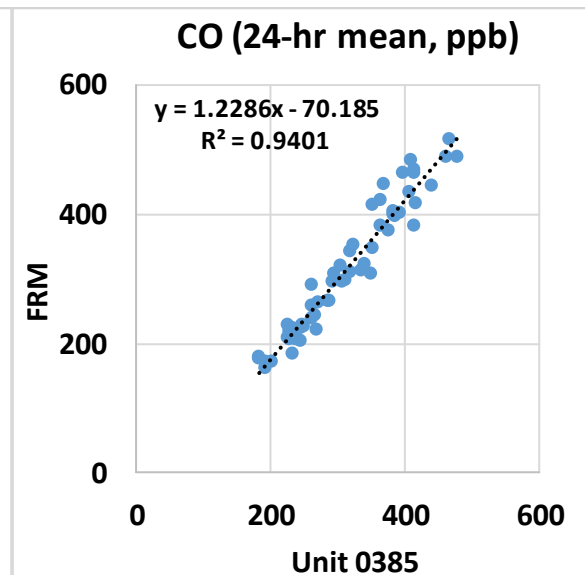
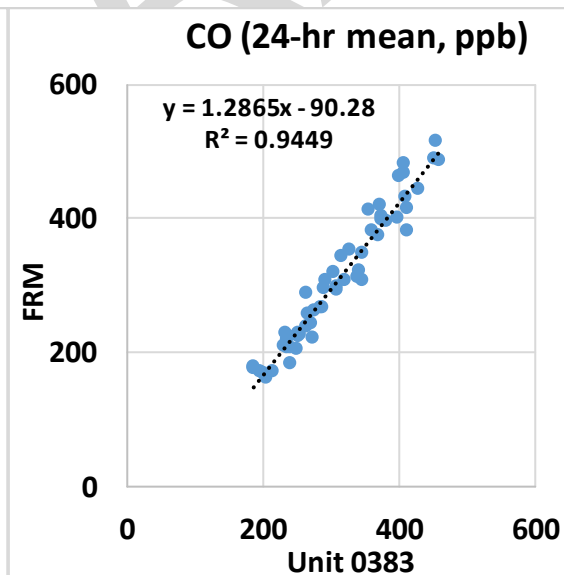
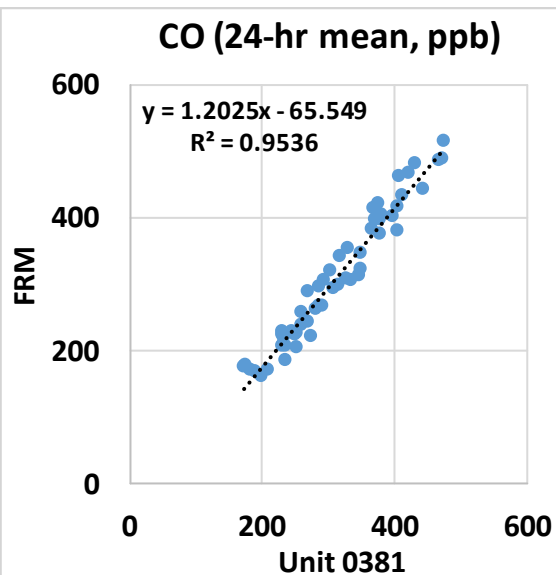
- The AQMesh sensors showed very strong correlations with the corresponding FRM CO data ($0.92 < R^2 < 0.95$)
- Overall, the AQMesh sensors underestimated the CO concentrations as measured by the FRM CO instrument
- The AQMesh sensors seemed to track the diurnal CO variations as recorded by the FRM CO instrument



AQMesh vs FRM (CO; 24-hr mean)



- The AQMesh sensors showed very strong correlations with the corresponding FRM CO data ($0.94 < R^2 < 0.96$)
- Overall, the AQMesh sensors underestimated the CO concentrations as measured by the FRM CO instrument
- The AQMesh sensors seemed to track the diurnal CO variations as recorded by the FRM CO instrument



Summary: CO

	Average of 3 Sensors, CO		AQMesh vs FRM CO						FRM CO (ppb)		
	Average (ppb)	SD (ppb)	R ²	Slope	Intercept	MBE ¹ (ppb)	MAE ² (ppb)	RMSE ³ (ppb)	FRM Average	FRM SD	Range during the field evaluation
5-min	312.8	155.4	0.90 to 0.94	1.16 to 1.25	-68.7 to -43.7	-10.7 to -6.7	40.0 to 52.3	55.2 to 71.2	314.4	193.1	119 to 1607
1-hr	313.2	152.3	0.92 to 0.95	1.17 to 1.27	-73.9 to -46.1	-10.5 to -6.9	38.2 to 48.4	51.5 to 65.2	320.3	190.2	123 to 1180
24-hr	310.7	79.2	0.94 to 0.95	1.20 to 1.29	-90.3 to -65.5	-1.4 to 2.4	23.1 to 26.6	27.1 to 31.8	317.1	101.7	161 to 516

¹ Mean Bias Error (MBE): the difference between the sensors and the reference instruments. MBE indicates the tendency of the sensors to underestimate (negative MBE values) or overestimate (positive MBE values).

² Mean Absolute Error (MAE): the absolute difference between the sensors and the reference instruments. The larger MAE values, the higher measurement errors as compared to the reference instruments.

³ Root Mean Square Error (RMSE): another metric to calculate measurement errors.

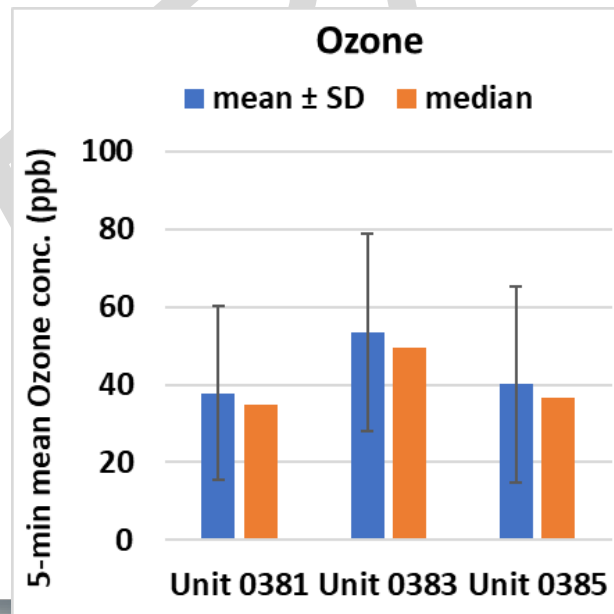
Ozone (O_3) in AQMesh

Data validation & recovery

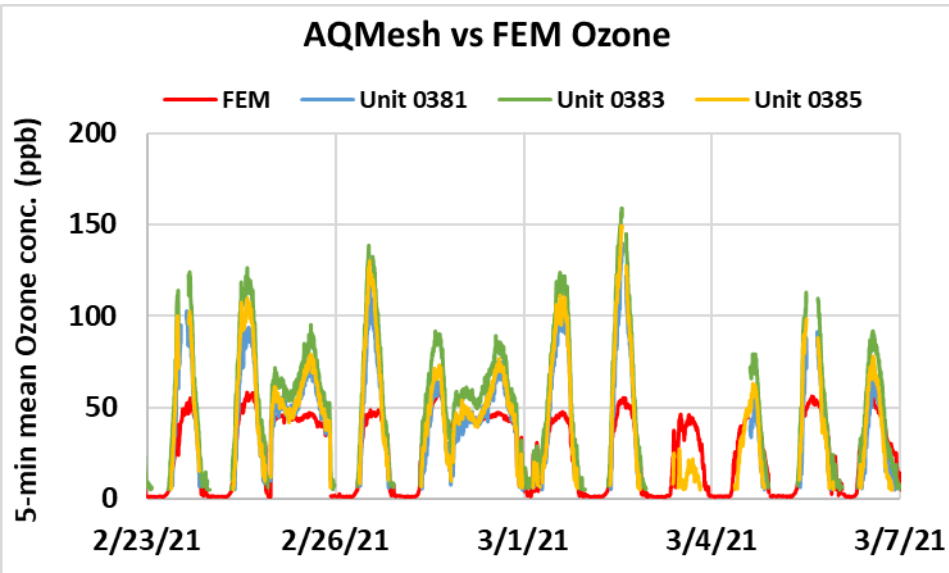
- Basic QA/QC procedures were used to validate the collected data (i.e., obvious outliers, negative values and invalid data-points were eliminated from the data-set)
- Data recovery for ozone from Unit 0381, Unit 0383 and Unit 0385 was ~ 71%, 86% and 72%, respectively

AQMesh; Intra-model variability

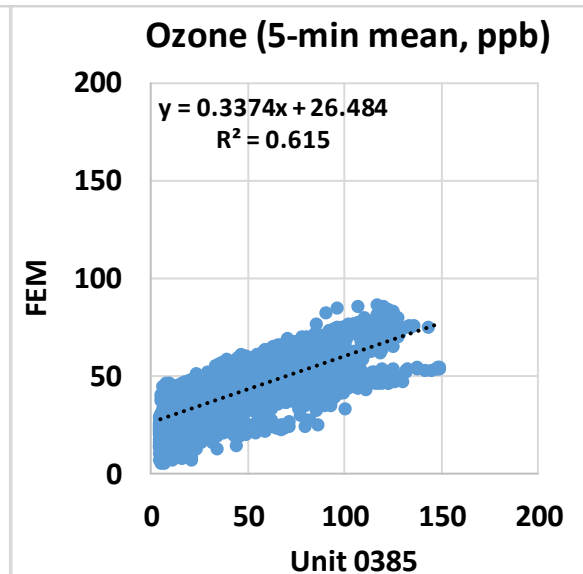
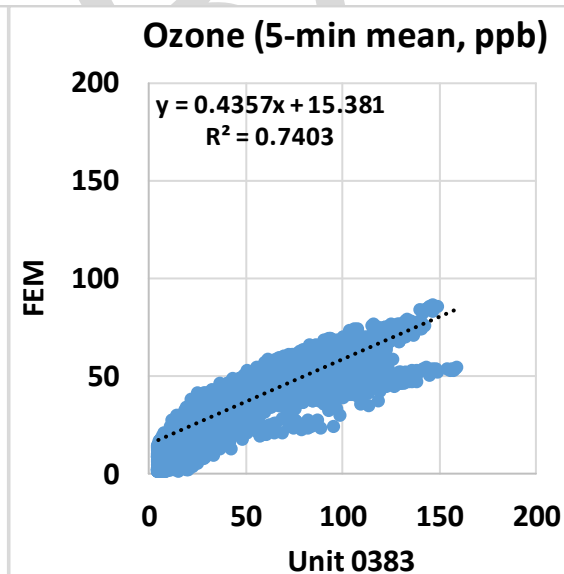
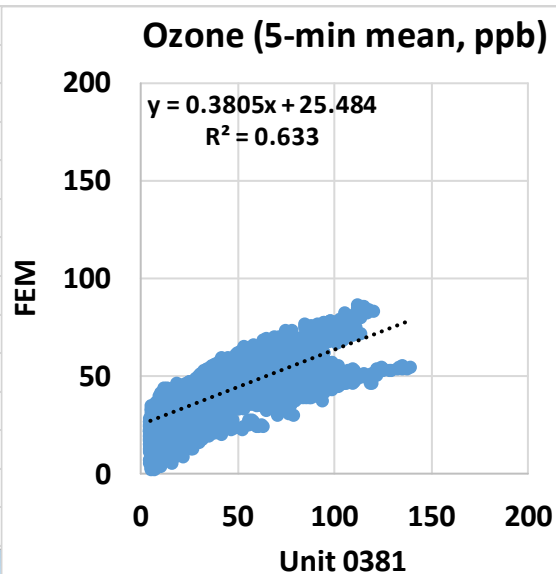
- Absolute intra-model variability was ~ 8.5 ppb for the ozone measurements (calculated as the standard deviation of the three sensor means)
- Relative intra-model variability was ~ 19.3% for the ozone measurements (calculated as the absolute intra-model variability relative to the mean of the three sensor means)



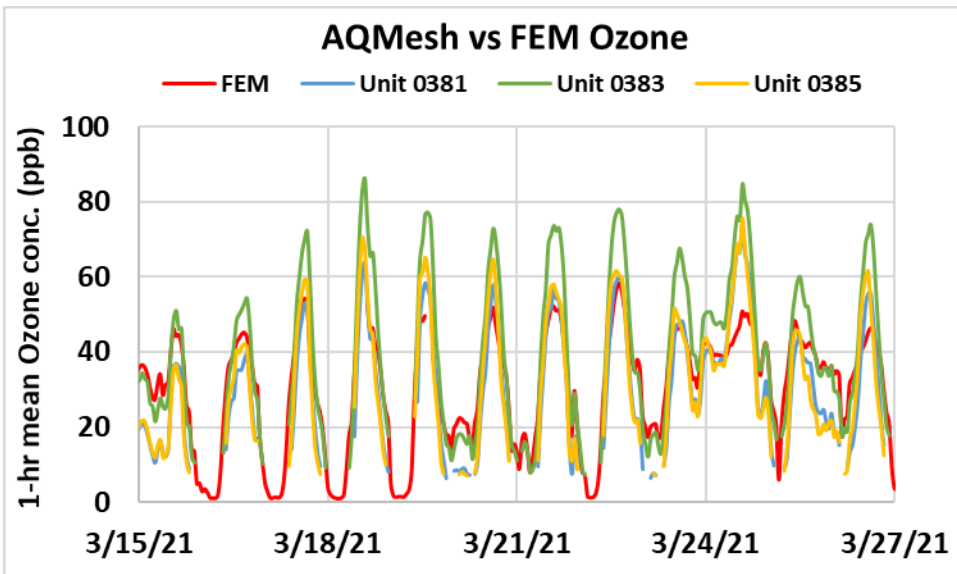
AQMesh vs FEM (Ozone; 5-min mean)



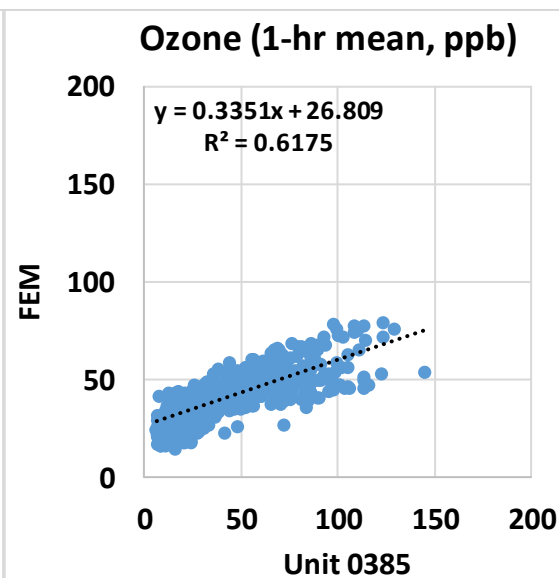
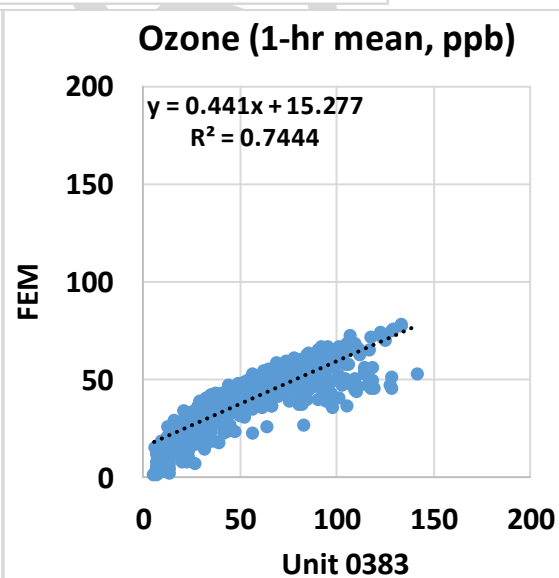
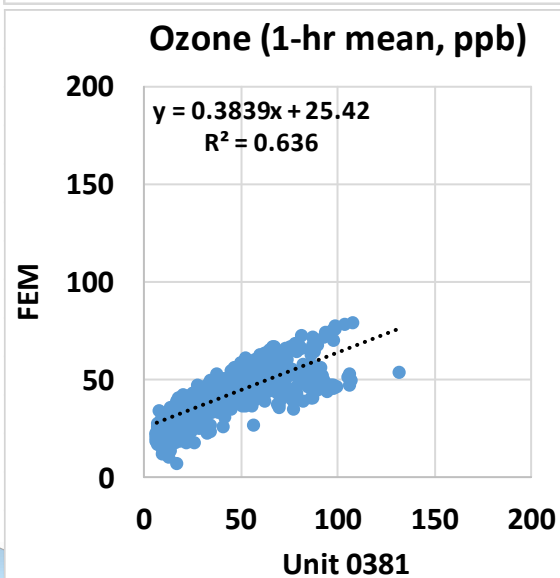
- The AQMesh sensors showed moderate to strong correlations with the corresponding FEM ozone data ($0.61 < R^2 < 0.75$)
- Overall, the AQMesh sensors overestimated the ozone concentrations as measured by the FEM ozone instrument
- The AQMesh sensors seemed to track the diurnal ozone variations as recorded by the FEM ozone instrument



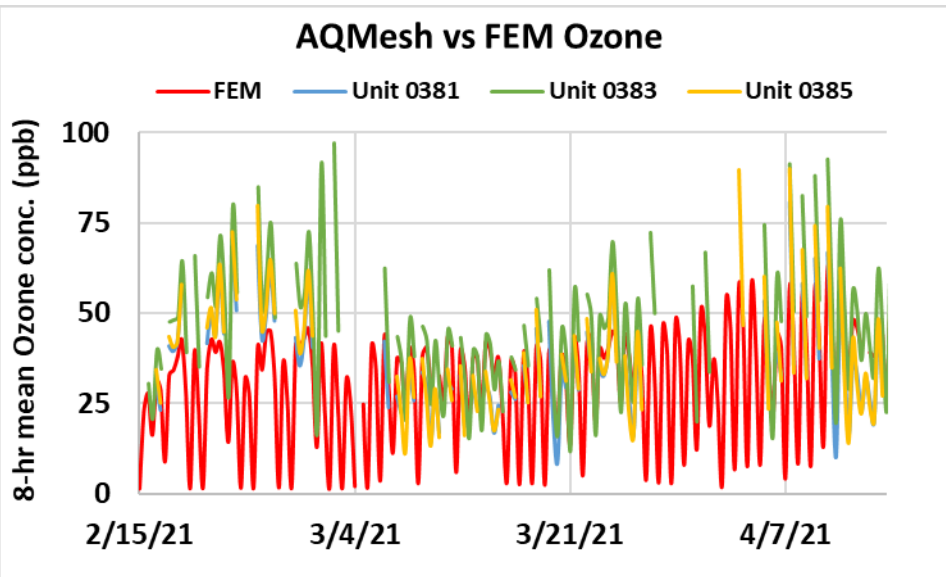
AQMesh vs FEM (Ozone; 1-hr mean)



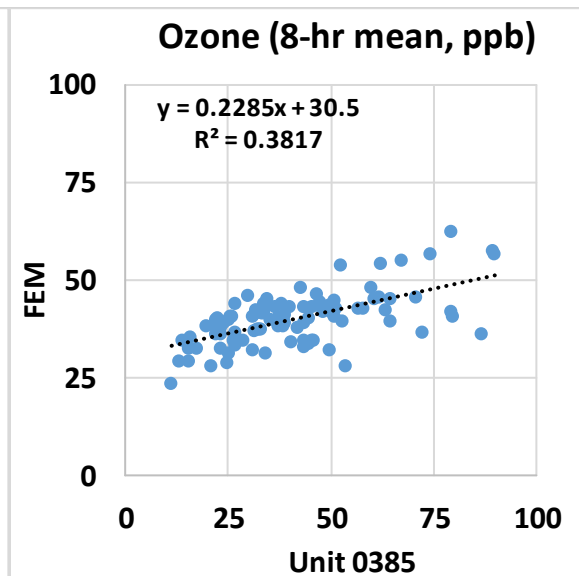
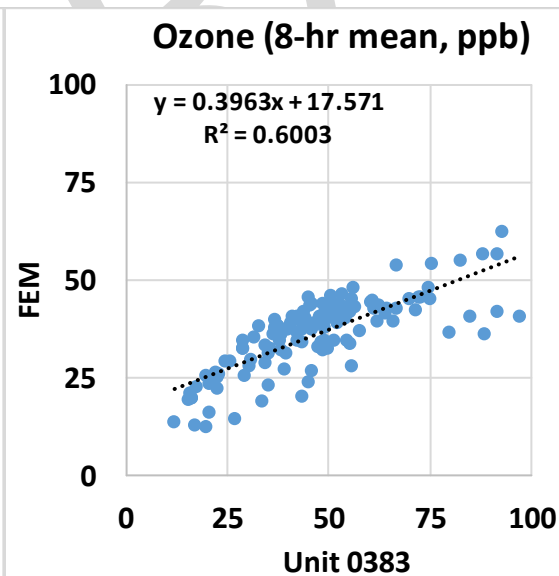
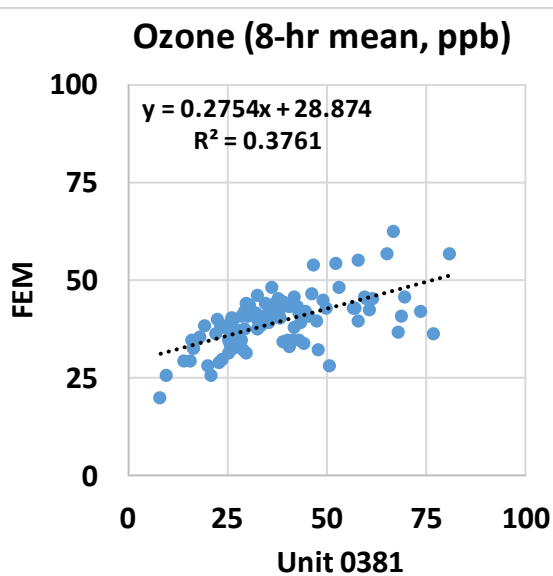
- The AQMesh sensors showed moderate to strong correlations with the corresponding FEM ozone data ($0.61 < R^2 < 0.75$)
- Overall, the AQMesh sensors overestimated the ozone concentrations as measured by the FEM ozone instrument
- The AQMesh sensors seemed to track the diurnal ozone variations as recorded by the FEM ozone instrument



AQMesh vs FEM (Ozone; 8-hr mean)



- The AQMesh sensors showed weak to moderate correlations with the corresponding FEM ozone data ($0.37 < R^2 < 0.61$)
- Overall, the AQMesh sensors overestimated the ozone concentrations as measured by the FEM ozone instrument
- The AQMesh sensors seemed to track the diurnal ozone variations as recorded by the FEM ozone instrument



Summary: Ozone

	Average of 3 Sensors, Ozone		AQMesh vs FEM Ozone						FEM Ozone (ppb)		
	Average (ppb)	SD (ppb)	R ²	Slope	Intercept	MBE ¹ (ppb)	MAE ² (ppb)	RMSE ³ (ppb)	FEM Average	FEM SD	Range during the field evaluation
5-min	41.0	25.7	0.62 to 0.74	0.34 to 0.44	15.4 to 26.5	-1.9 to 11.3	12.9 to 14.4	16.2 to 20.8	31.4	18.5	0.8 to 86.2
1-hr	41.7	24.8	0.62 to 0.74	0.34 to 0.44	15.3 to 26.8	-2.0 to 10.6	12.4 to 14.0	15.6 to 19.5	30.4	18.4	1.0 to 79.0
8-hr	42.1	17.1	0.38 to 0.60	0.23 to 0.40	17.6 to 30.5	-1.3 to 10.9	10.0 to 12.1	12.3 to 16.6	30.5	15.4	1.4 to 62.1

¹ Mean Bias Error (MBE): the difference between the sensors and the reference instruments. MBE indicates the tendency of the sensors to underestimate (negative MBE values) or overestimate (positive MBE values).

² Mean Absolute Error (MAE): the absolute difference between the sensors and the reference instruments. The larger MAE values, the higher measurement errors as compared to the reference instruments.

³ Root Mean Square Error (RMSE): another metric to calculate measurement errors.

Nitric Oxide (NO) in AQMesh

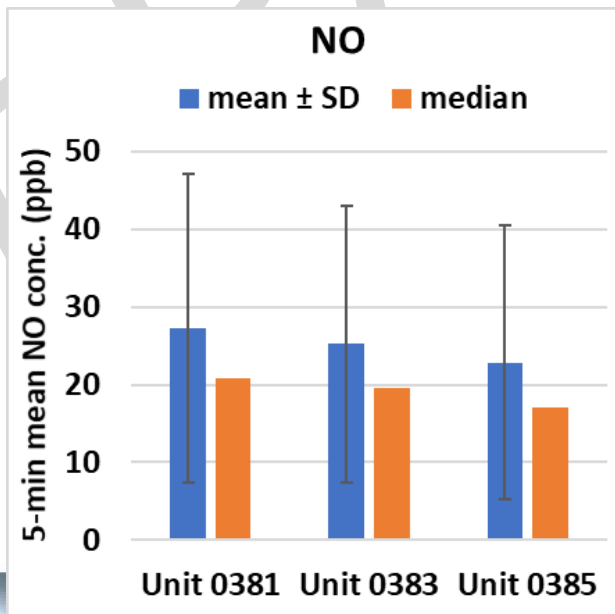
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Data validation & recovery

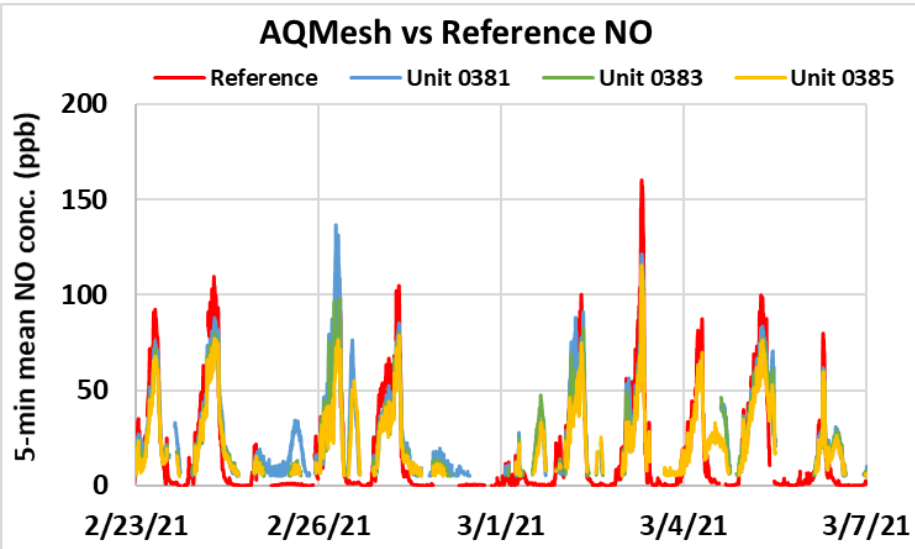
- Basic QA/QC procedures were used to validate the collected data (i.e., obvious outliers, negative values and invalid data-points were eliminated from the data-set)
- Data recovery for NO from Unit 0381, Unit 0383 and Unit 0385 was ~ 67%, 69% and 62%, respectively

AQMesh; Intra-model variability

- Absolute intra-model variability was ~ 2.2 ppb for the NO measurements (calculated as the standard deviation of the three sensor means)
- Relative intra-model variability was ~ 8.8% for the NO measurements (calculated as the absolute intra-model variability relative to the mean of the three sensor means)

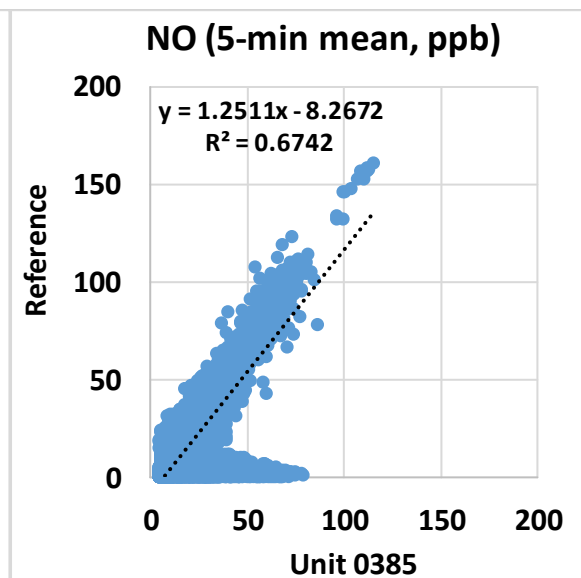
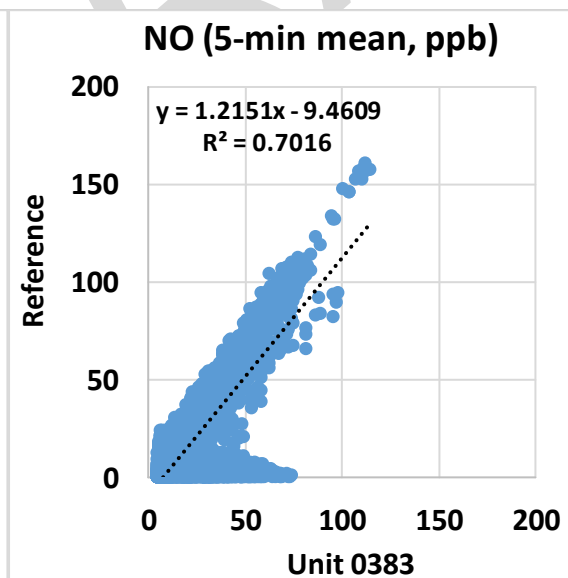
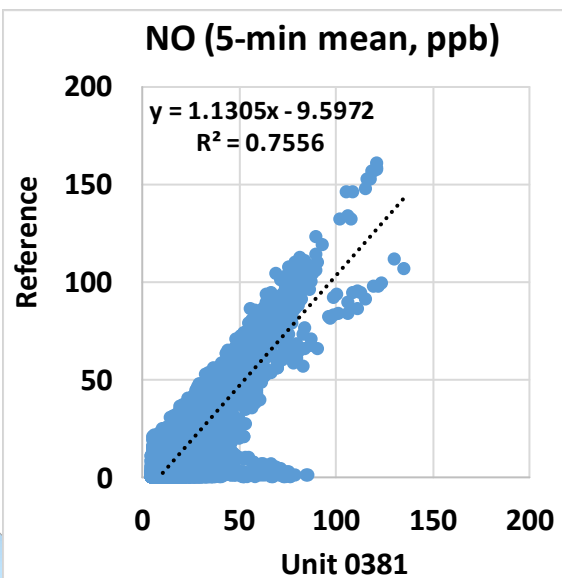


AQMesh vs Reference (NO; 5-min mean)

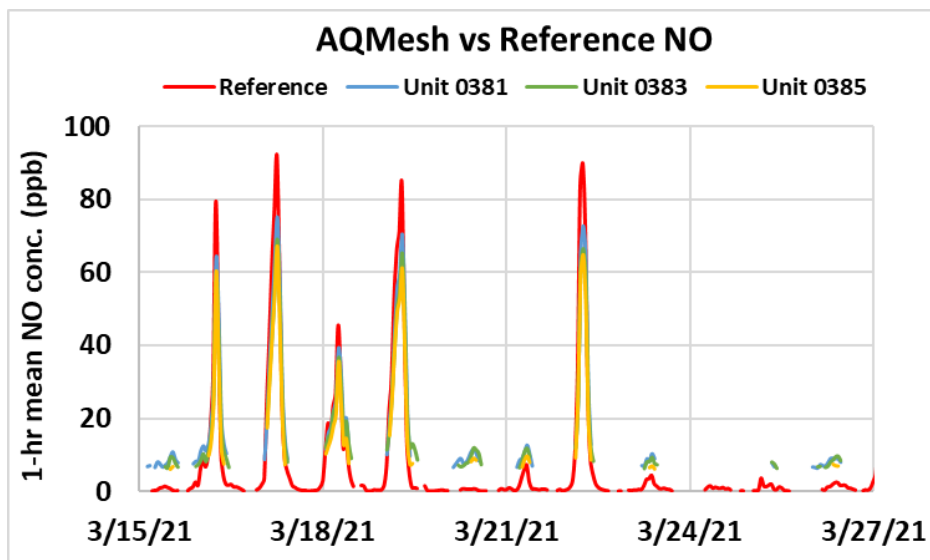


- The AQMesh sensors showed moderate to strong correlations with the corresponding reference NO data ($0.67 < R^2 < 0.76$)
- Overall, the AQMesh sensors overestimated the NO concentrations as measured by the reference NO instrument
- The AQMesh sensors seemed to track the diurnal NO variations as recorded by the reference NO instrument

Note: 24-hr data were not shown due to the lack of data from the sensors.

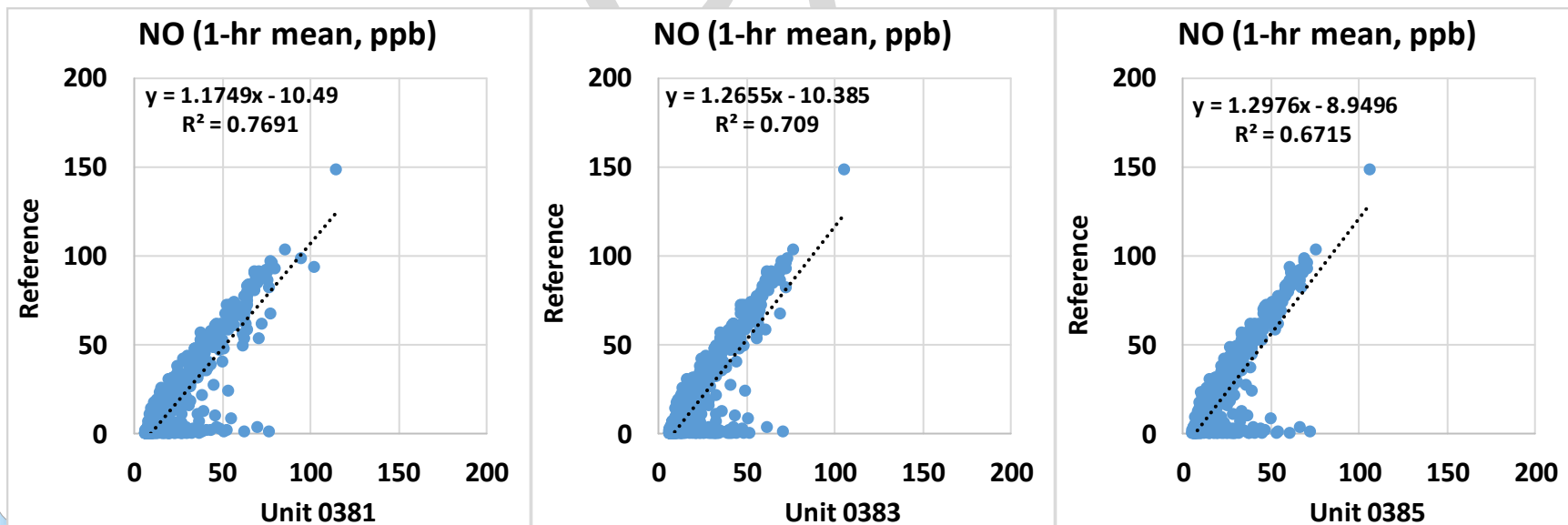


AQMesh vs Reference (NO; 1-hr mean)



- The AQMesh sensors showed moderate to strong correlations with the corresponding reference NO data ($0.67 < R^2 < 0.77$)
- Overall, the AQMesh sensors overestimated the NO concentrations as measured by the reference NO instrument
- The AQMesh sensors seemed to track the diurnal NO variations as recorded by the reference NO instrument

Note: 24-hr data were not shown due to the lack of data from the sensors.



Summary: NO

	Average of 3 Sensors, NO		AQMesh vs Reference NO						Reference NO (ppb)		
	Average (ppb)	SD (ppb)	R ²	Slope	Intercept	MBE ¹ (ppb)	MAE ² (ppb)	RMSE ³ (ppb)	Reference Average	Ref. SD	Range during the field evaluation
5-min	21.5	17.9	0.67 to 0.76	1.13 to 1.25	-9.6 to -8.3	2.5 to 6.6	10.9 to 12.3	14.5 to 16.4	9.5	20.4	0 to 160.2
1-hr	23.3	17.5	0.67 to 0.77	1.17 to 1.30	-10.5 to -8.9	1.6 to 6.2	11.1 to 12.6	14.4 to 16.5	10.1	20.2	0.1 to 148.6

Note: 24-hr data were not shown due to the lack of data from the sensors.

¹ Mean Bias Error (MBE): the difference between the sensors and the reference instruments. MBE indicates the tendency of the sensors to underestimate (negative MBE values) or overestimate (positive MBE values).

² Mean Absolute Error (MAE): the absolute difference between the sensors and the reference instruments. The larger MAE values, the higher measurement errors as compared to the reference instruments.

³ Root Mean Square Error (RMSE): another metric to calculate measurement errors.

Nitrogen Dioxide (NO₂) in AQMesh

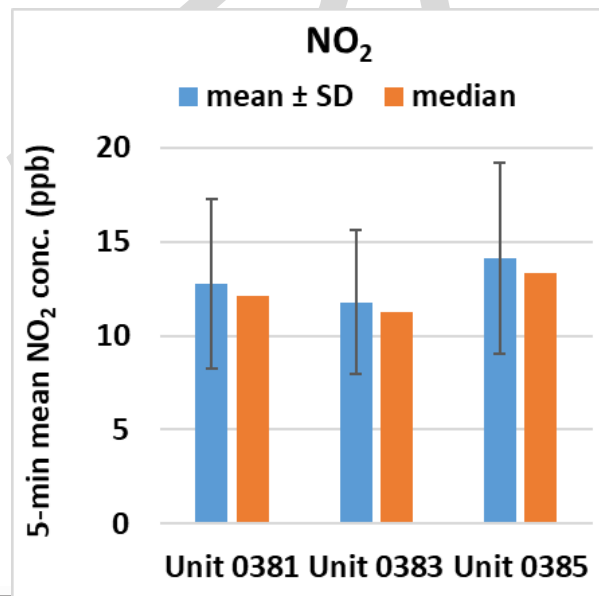
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Data validation & recovery

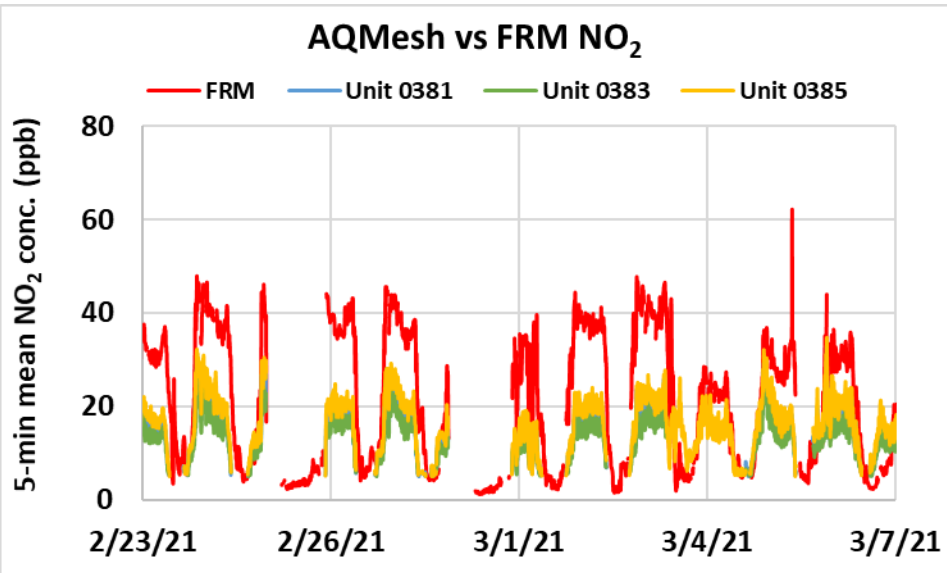
- Basic QA/QC procedures were used to validate the collected data (i.e., obvious outliers, negative values and invalid data-points were eliminated from the data-set)
- Data recovery for NO₂ from Unit 0381, Unit 0383 and Unit 0385 was ~ 90%, 90% and 92%, respectively

AQMesh; Intra-model variability

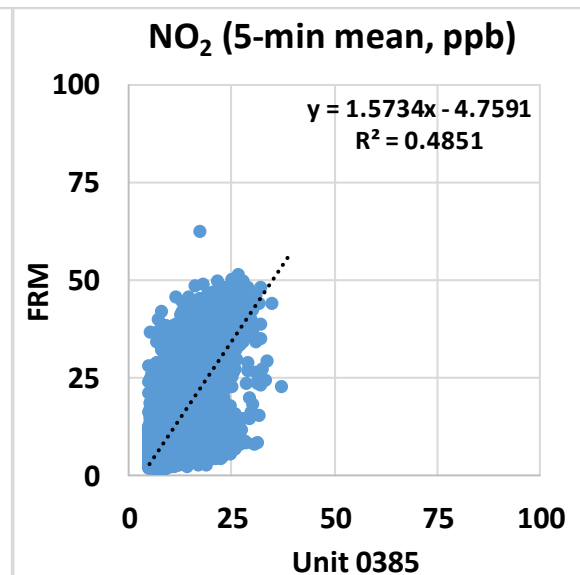
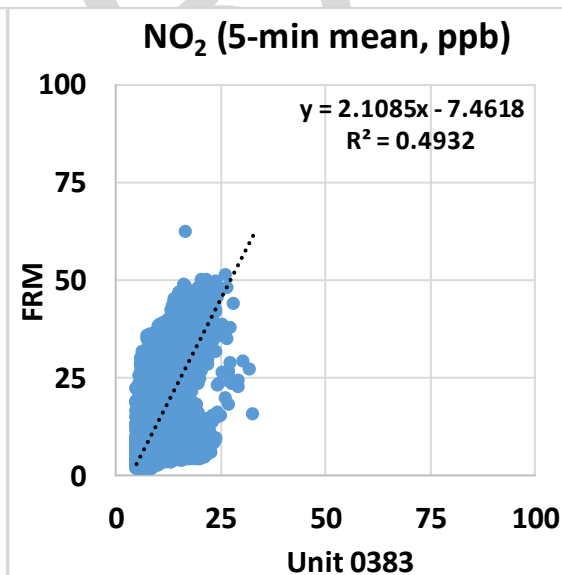
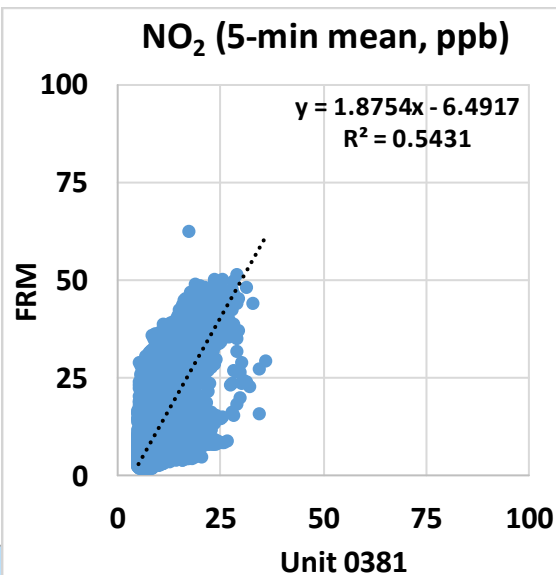
- Absolute intra-model variability was ~ 1.2 ppb for the NO₂ measurements (calculated as the standard deviation of the three sensor means)
- Relative intra-model variability was ~ 9.2% for the NO₂ measurements (calculated as the absolute intra-model variability relative to the mean of the three sensor means)



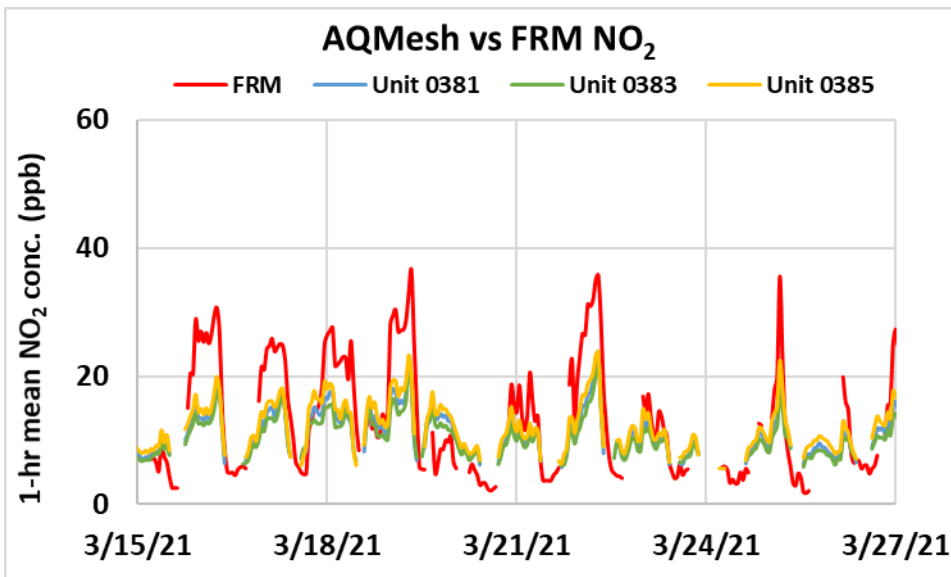
AQMesh vs FRM (NO₂; 5-min mean)



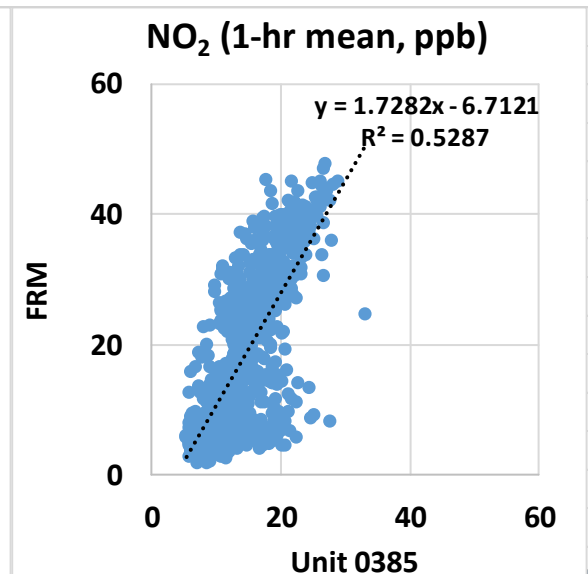
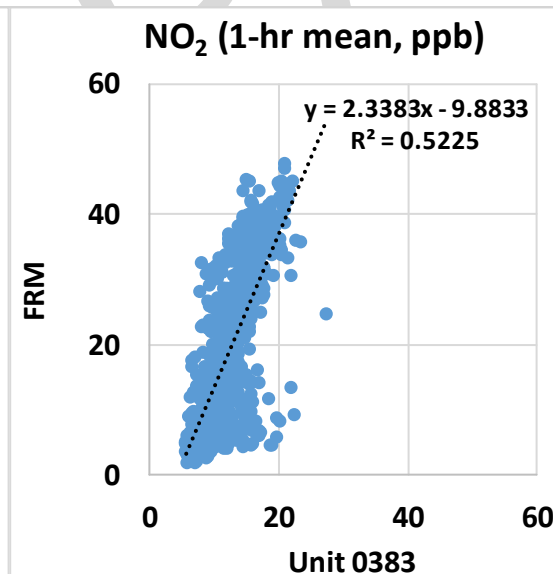
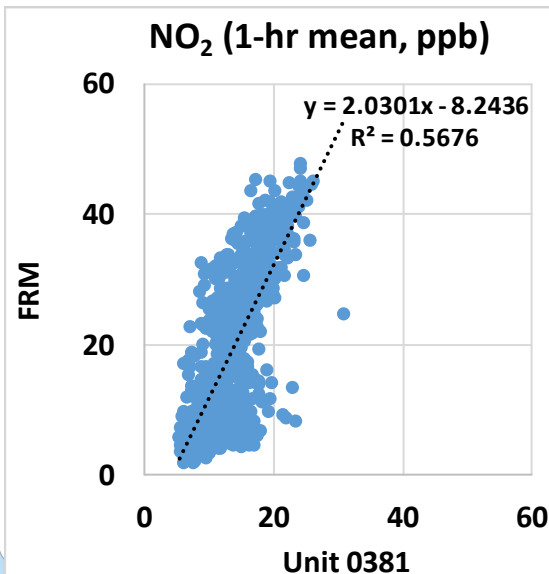
- The AQMesh sensors showed weak to moderate correlations with the corresponding FRM NO₂ data ($0.48 < R^2 < 0.55$)
- Overall, the AQMesh sensors underestimated the NO₂ concentrations as measured by the FRM NO₂ instrument
- The AQMesh sensors seemed to track the diurnal NO₂ variations as recorded by the FRM NO₂ instrument



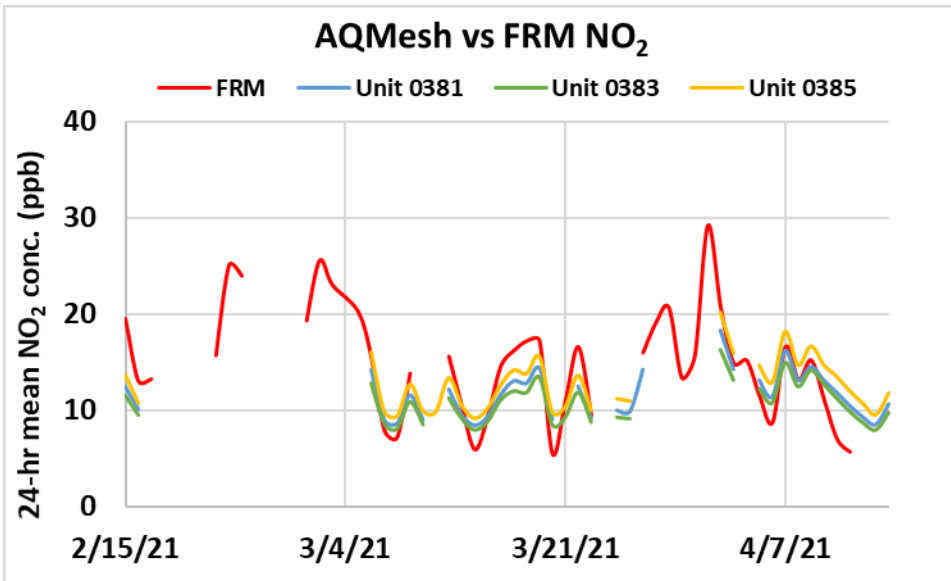
AQMesh vs FRM (NO₂; 1-hr mean)



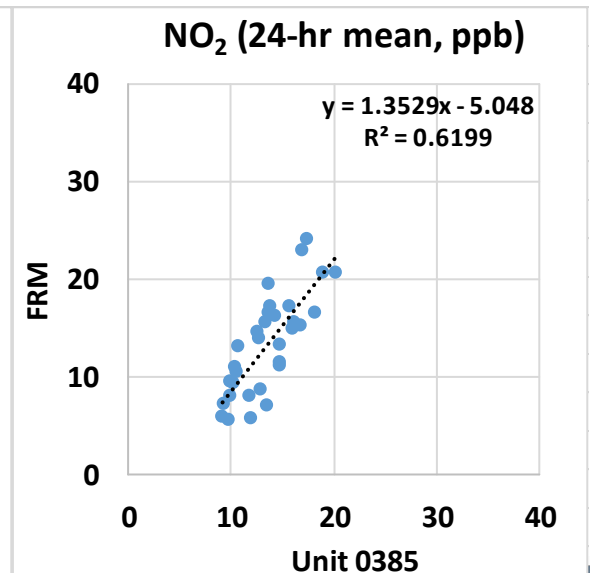
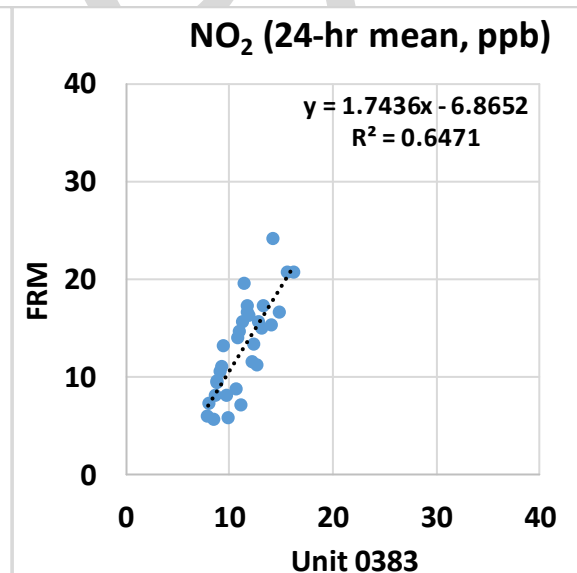
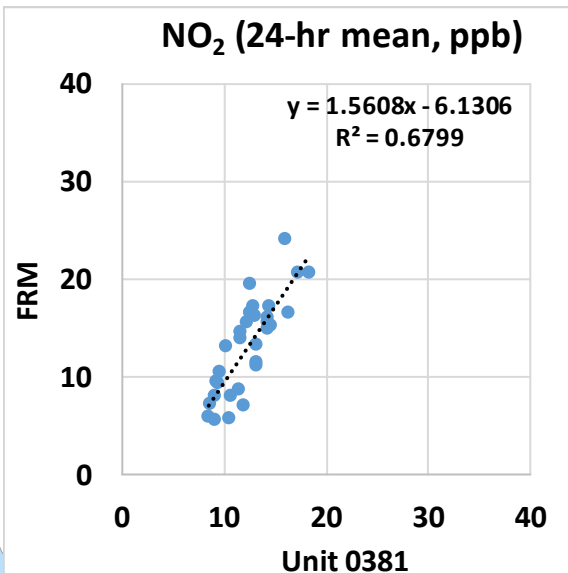
- The AQMesh sensors showed moderate correlations with the corresponding FRM NO₂ data ($0.52 < R^2 < 0.57$)
- Overall, the AQMesh sensors underestimated the NO₂ concentrations as measured by the FRM NO₂ instrument
- The AQMesh sensors seemed to track the diurnal NO₂ variations as recorded by the FRM NO₂ instrument



AQMesh vs FRM (NO₂; 24-hr mean)



- The AQMesh sensors showed moderate correlations with the corresponding FRM NO₂ data ($0.61 < R^2 < 0.68$)
- Overall, the AQMesh sensors underestimated the NO₂ concentrations as measured by the FRM NO₂ instrument
- The AQMesh sensors seemed to track the diurnal NO₂ variations as recorded by the FRM NO₂ instrument



Summary: NO₂

	Average of 3 Sensors, NO ₂		AQMesh vs FRM NO ₂						FRM NO ₂ (ppb)		
	Average (ppb)	SD (ppb)	R ²	Slope	Intercept	MBE ¹ (ppb)	MAE ² (ppb)	RMSE ³ (ppb)	FRM Average	FRM SD	Range during the field evaluation
5-min	12.7	4.6	0.49 to 0.54	1.57 to 2.11	-7.5 to -4.8	-5.7 to -3.3	7.6 to 8.4	9.6 to 11.1	14.7	11.7	1.2 to 62.3
1-hr	12.9	4.3	0.53 to 0.57	1.73 to 2.34	-9.9 to -6.7	-6.7 to -4.0	7.8 to 9.0	9.6 to 11.5	15.7	11.7	1.4 to 47.6
24-hr	12.1	2.6	0.62 to 0.68	1.35 to 1.74	-6.9 to -5.0	-1.6 to -0.2	2.6 to 3.0	3.3 to 3.7	15.5	5.8	5.5 to 29.2

¹ Mean Bias Error (MBE): the difference between the sensors and the reference instruments. MBE indicates the tendency of the sensors to underestimate (negative MBE values) or overestimate (positive MBE values).

² Mean Absolute Error (MAE): the absolute difference between the sensors and the reference instruments. The larger MAE values, the higher measurement errors as compared to the reference instruments.

³ Root Mean Square Error (RMSE): another metric to calculate measurement errors.

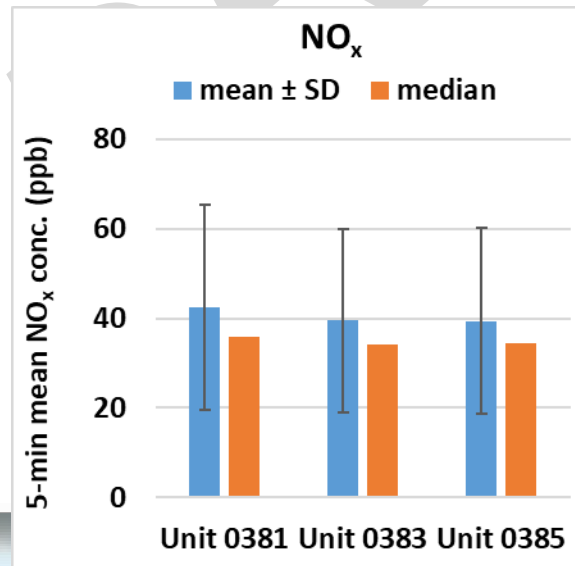
Nitrogen Oxides (NO_x) in AQMesh

Data validation & recovery

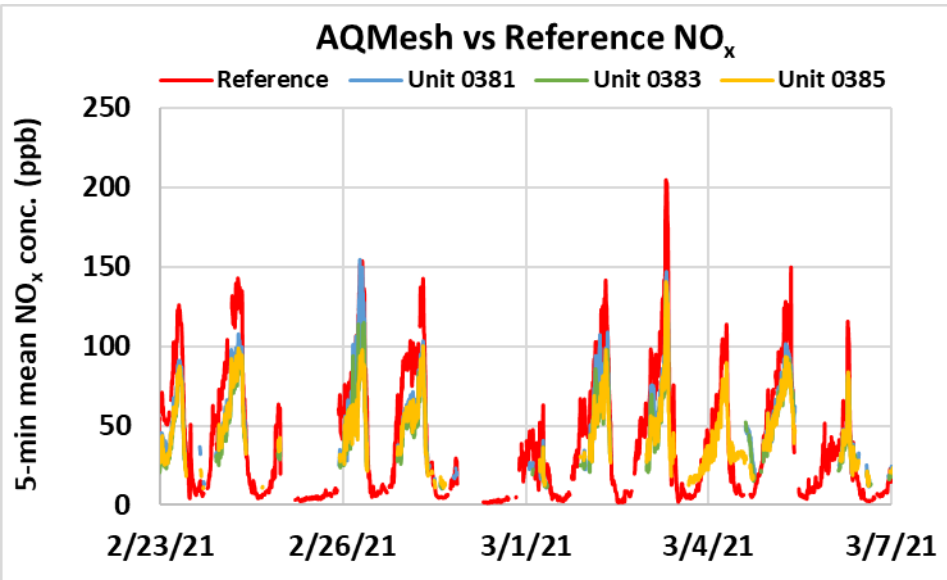
- Basic QA/QC procedures were used to validate the collected data (i.e., obvious outliers, negative values, and invalid data-points were eliminated from the data-set)
- Data recovery for NO_x from Unit 0381, Unit 0383 and Unit 0385 was ~ 89%, 88% and 87%, respectively
- AQMesh NO_x is calculated as the sum of NO and NO₂. NO_x measurements were considered for this data analysis if 1) the NO_x values were higher than AQMesh's LOC and 2) the corresponding NO and NO₂ were both above AQMesh's LOC

AQMesh; Intra-model variability

- Absolute intra-model variability was ~ 1.8 ppb for the NO_x measurements (calculated as the standard deviation of the three sensor means)
- Relative intra-model variability was ~ 4.4% for the NO_x measurements (calculated as the absolute intra-model variability relative to the mean of the three sensor means)

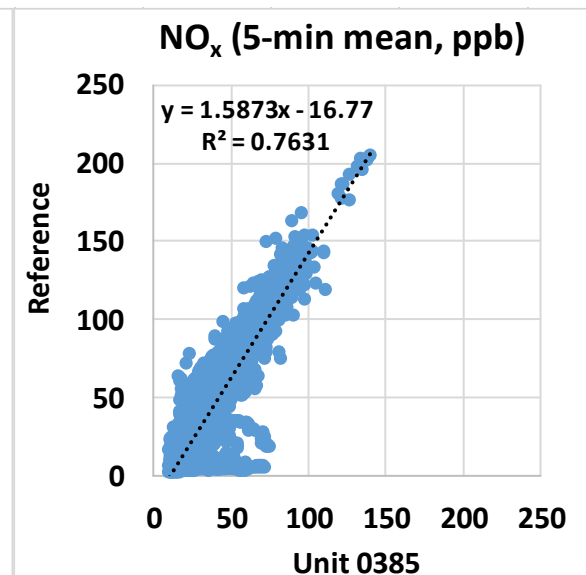
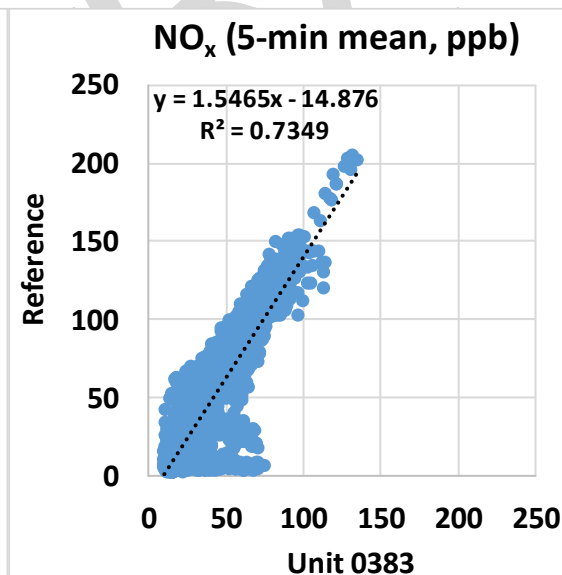
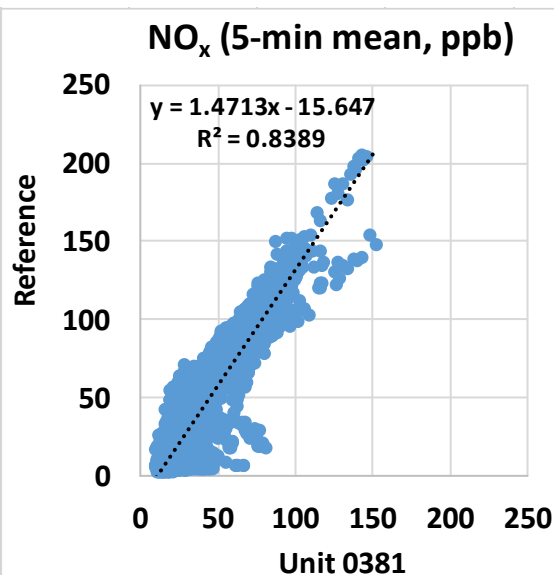


AQMesh vs Reference (NO_x; 5-min mean)

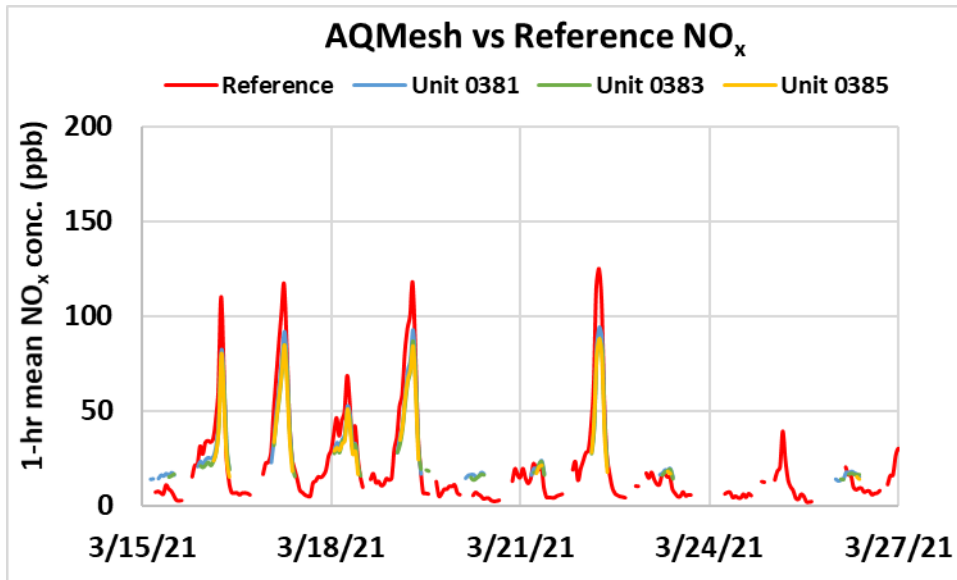


- The AQMesh showed strong correlations with the corresponding reference NO_x data ($0.73 < R^2 < 0.84$)
- Overall, the AQMesh sensors underestimated the NO_x concentrations as measured by the reference NO_x instrument
- The AQMesh sensors seemed to track the diurnal NO_x variations as recorded by the reference NO_x instrument

Note: 24-hr data were not shown due to the lack of data from the sensors.

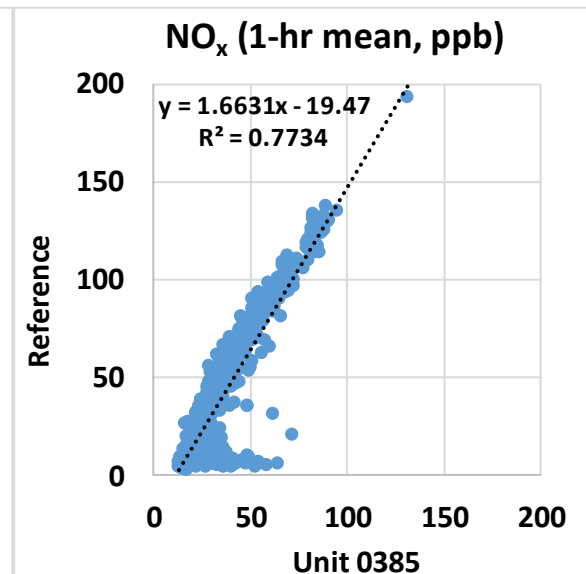
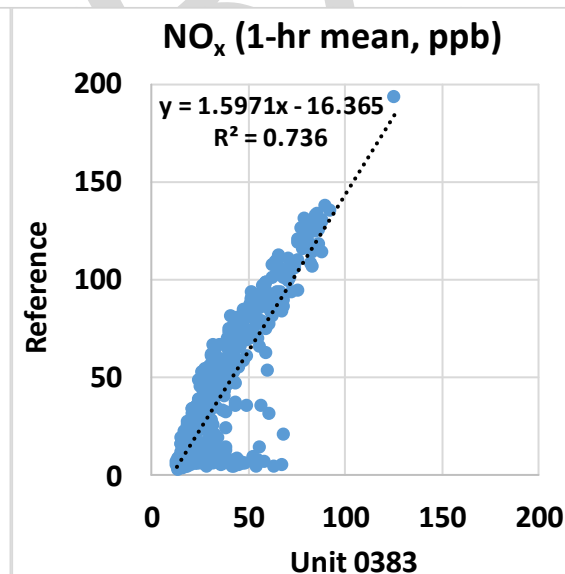
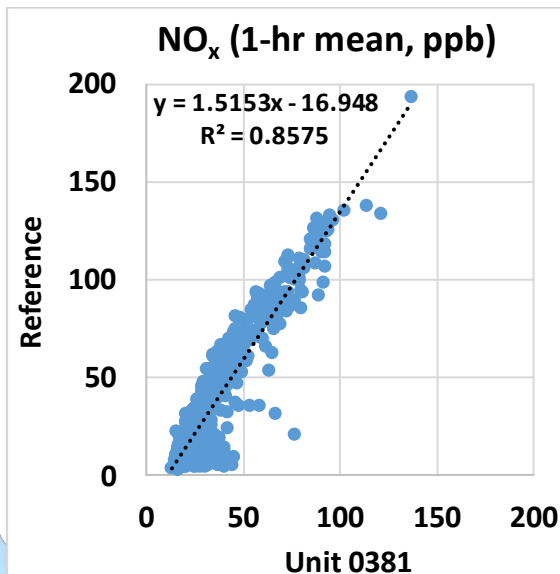


AQMesh vs Reference (NO_x; 1-hr mean)



- The AQMesh showed strong correlations with the corresponding reference NO_x data ($0.73 < R^2 < 0.86$)
- Overall, the AQMesh sensors underestimated the NO_x concentrations as measured by the reference NO_x instrument
- The AQMesh sensors seemed to track the diurnal NO_x variations as recorded by the reference NO_x instrument

Note: 24-hr data were not shown due to the lack of data from the sensors.



Summary: NO_x

	Average of 3 Sensors, NO _x		AQMesh vs Reference, NO _x						Reference, NO _x (ppb)		
	Average (ppb)	SD (ppb)	R ²	Slope	Intercept	MBE ¹ (ppb)	MAE ² (ppb)	RMSE ³ (ppb)	Reference Average	Ref. SD	Range during the field evaluation
5-min	35.9	21.0	0.73 to 0.84	1.47 to 1.59	-16.8 to -14.9	-6.1 to -2.0	15.0 to 18.9	18.4 to 23.0	24.2	29.4	1.3 to 204.6
1-hr	38.4	20.5	0.74 to 0.86	1.52 to 1.66	-19.5 to -16.4	-7.9 to -3.5	15.0 to 19.6	18.1 to 23.3	25.8	29.2	1.6 to 193.3

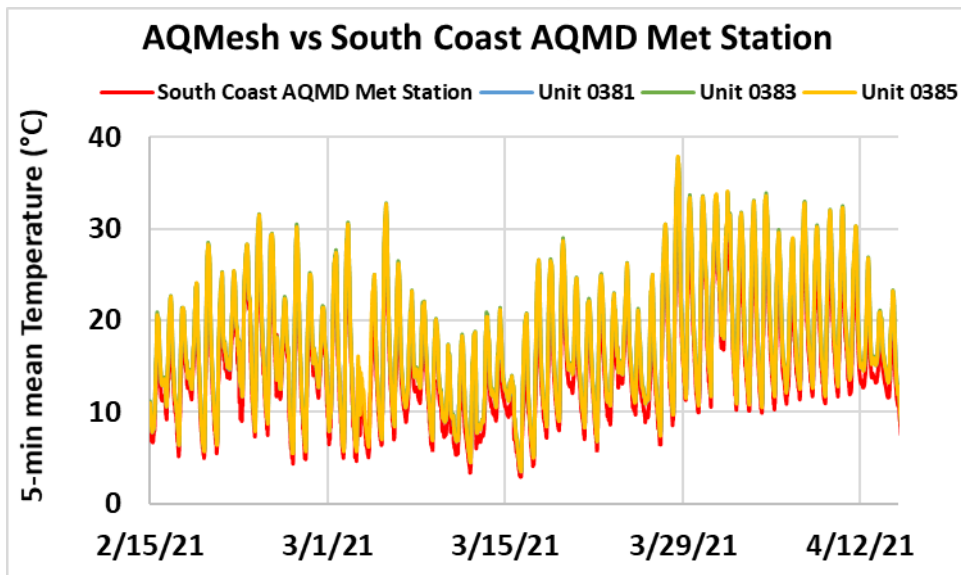
Note: 24-hr data were not shown due to the lack of data from the sensors.

¹ Mean Bias Error (MBE): the difference between the sensors and the reference instruments. MBE indicates the tendency of the sensors to underestimate (negative MBE values) or overestimate (positive MBE values).

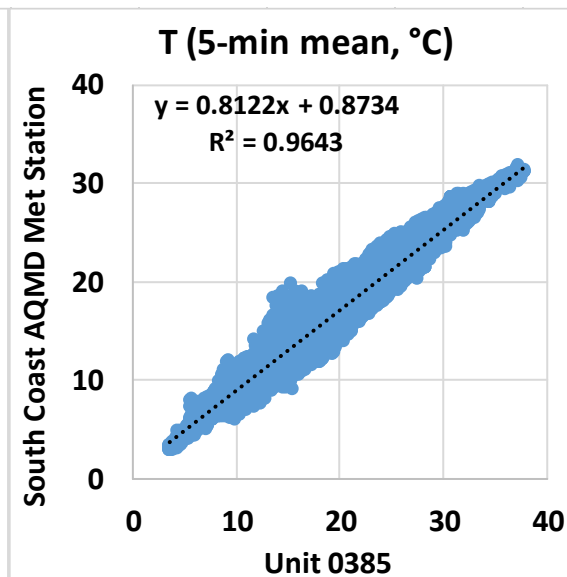
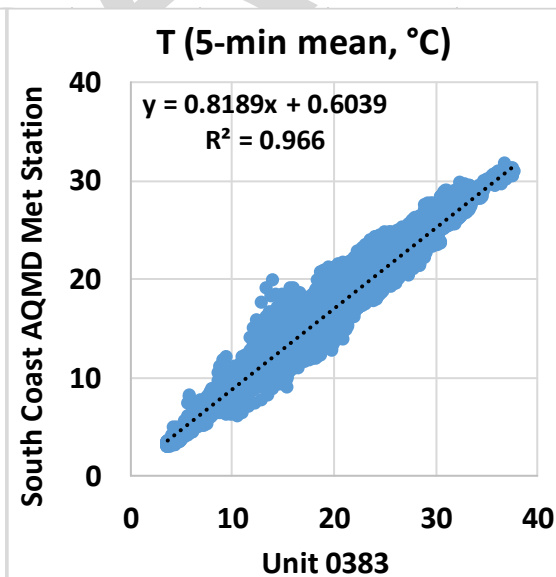
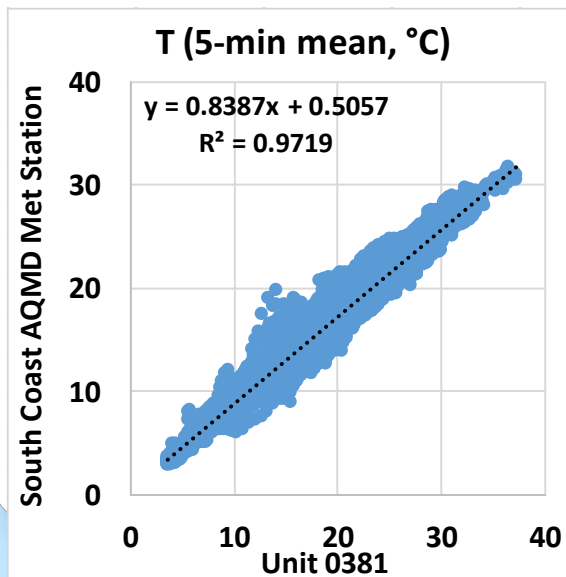
² Mean Absolute Error (MAE): the absolute difference between the sensors and the reference instruments. The larger MAE values, the higher measurement errors as compared to the reference instruments.

³ Root Mean Square Error (RMSE): another metric to calculate measurement errors.

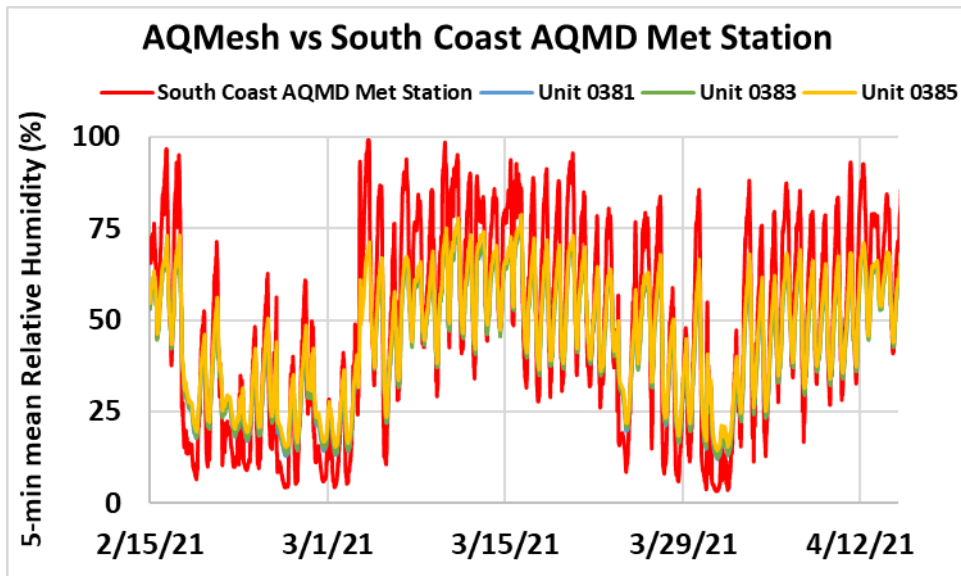
AQMesh vs South Coast AQMD Met Station (Temp; 5-min mean)



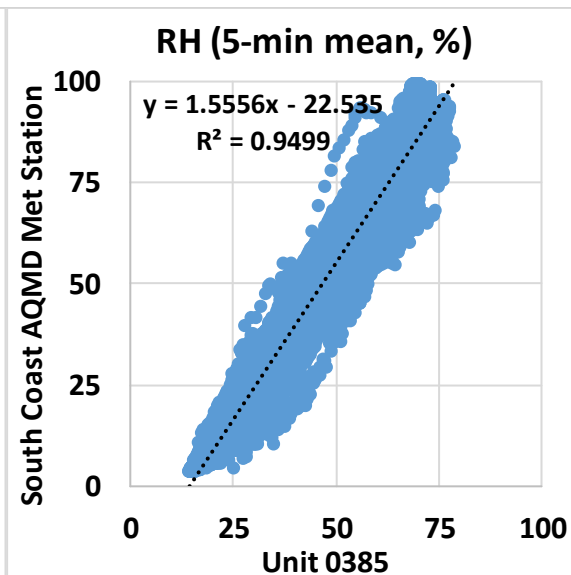
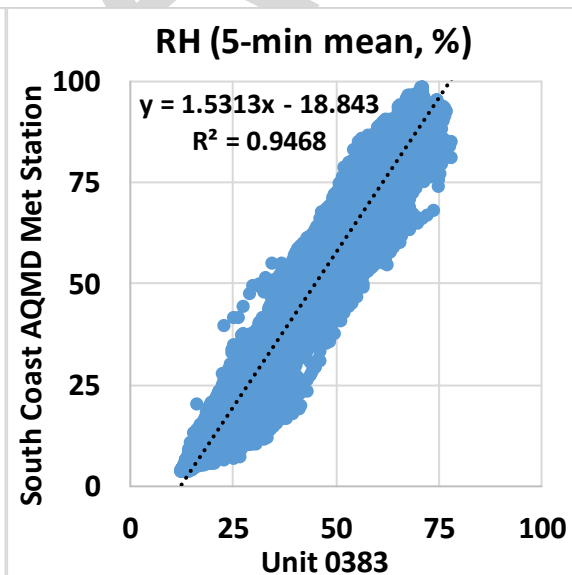
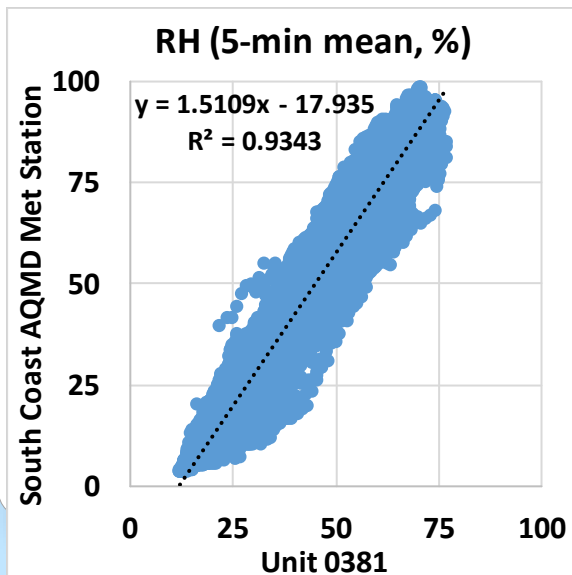
- The AQMesh sensors showed very strong correlations with the corresponding South Coast AQMD Met Station data ($0.96 < R^2 < 0.98$)
- Overall, the AQMesh sensors overestimated the temperature measurement as recorded by South Coast AQMD Met Station
- The AQMesh sensors seemed to track the diurnal temperature variations as recorded by South Coast AQMD Met Station



AQMesh vs South Coast AQMD Met Station (RH; 5-min mean)



- The AQMesh sensors showed very strong correlations with the corresponding South Coast AQMD Met Station data ($0.93 < R^2 < 0.95$)
- Overall, the AQMesh sensors underestimated the RH measurement as recorded by South Coast AQMD Met Station
- The AQMesh sensors seemed to track the diurnal RH variations as recorded by South Coast AQMD Met Station



Discussion

- The average data recovery of three **AQMesh** sensors for CO, ozone, NO, NO₂ and NO_x was 95%, 76%, 66%, 91% and 88%, respectively.
- The absolute intra-model variability for CO, ozone, NO, NO₂ and NO_x was ~ 1.9, 8.5, 2.2, 1.2 and 1.8 ppb, respectively.
- During the entire field deployment testing period:
 - CO sensors showed strong to very strong correlations with the FRM instrument ($0.89 < R^2 < 0.94$, 5-min mean) and underestimated the corresponding FRM data
 - Ozone sensors showed moderate to strong correlations with the FEM instrument ($0.61 < R^2 < 0.75$, 5-min mean) and overestimated the corresponding FEM data
 - Nitric Oxide (NO) sensors showed moderate to strong correlations with the reference instrument ($0.67 < R^2 < 0.76$, 5-min mean) and overestimated the corresponding reference data
 - NO₂ sensors showed weak to moderate correlations with the FRM instrument ($0.48 < R^2 < 0.55$, 5-min mean) and underestimated the corresponding FRM data
 - NO_x sensors showed strong correlations with the reference instrument ($0.73 < R^2 < 0.84$, 5-min mean) and underestimated the corresponding reference data
 - **SO₂ evaluation was not included in this report since the majority of the AQMesh SO₂ values were below AQMesh's limit of confidence (LOC) of 10 ppb as specified in the technical specification from AQMesh**
 - Temperature and relative humidity sensors showed very strong correlations with the South Coast AQMD Met Station data (T: $R^2 \sim 0.97$ and RH: $R^2 \sim 0.94$) and overestimated the T data and underestimated the RH data as recorded by the South Coast AQMD Met Station
- No sensor calibration was performed by AQ-SPEC prior to the beginning of this field testing.
- Laboratory chamber testing is necessary to fully evaluate the performance of these sensors under controlled T and RH conditions, and known target and interferent pollutants concentrations.
- These results are still preliminary