

Kunak Technologies, in collaboration with SEDEMA (Secretaría de Medioambiente de la Ciudad de México) has conducted a study in three phases. The results of these studies are shared and analyzed in this document.

Phase 1: CIENMETROS

A co-location study between a Kunak AIR station and a Governmental Air Quality Reference

Location: MX Cien Metros
Dates: 15th May-20th August 2019



Phase 2: ZOCALO

A co-location study between a Kunak AIR station and a mobile Reference station during CDMX Marathon.

Location: Zócalo Square
Dates: 20th – 25th August 2019



Phase 3: Mexican Olympic Committee

A comparison between two Kunak devices, at Olympic Committee stadium

Location: Mexican Olympic Committee
Dates: 19th September – 2nd Oct. 2019

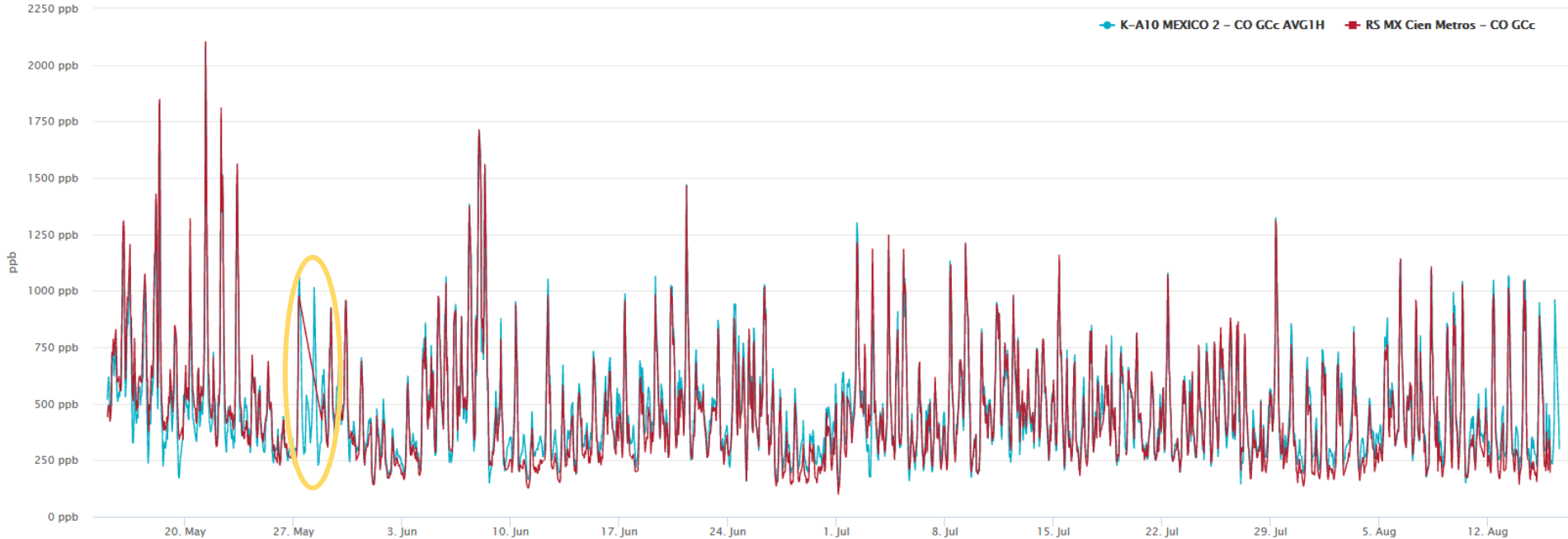


Phase 1. Colocation of Kunak vs. Fixed Reference

At location Cienmetros, from 15th May to 20th August 2019

Kunak KA-10 V2 #2 vs. Cien Metros Reference Station

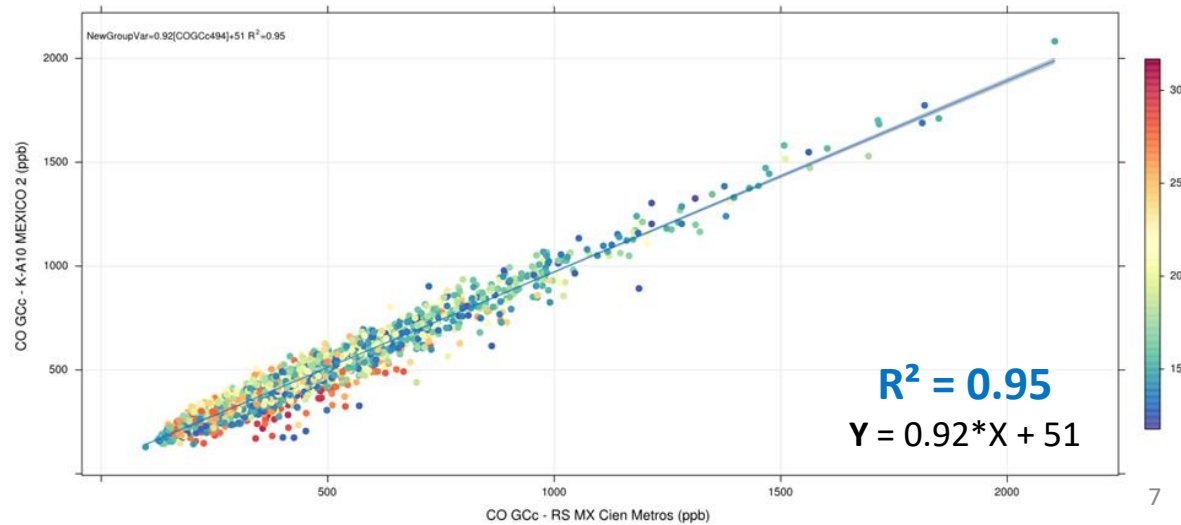
CARBON MONOXIDE (CO), MEXICO CITY (Mexico), MAY-AUG'19



CO GCc - RS MX Cien Metros vs. CO GCc - K-A10 MEXICO 2 by level of Temp ext - K-A10 MEXICO 2

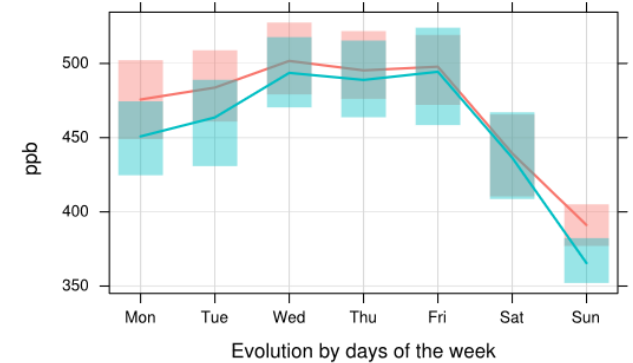
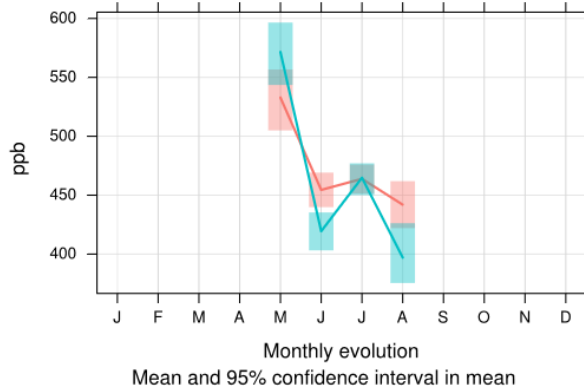
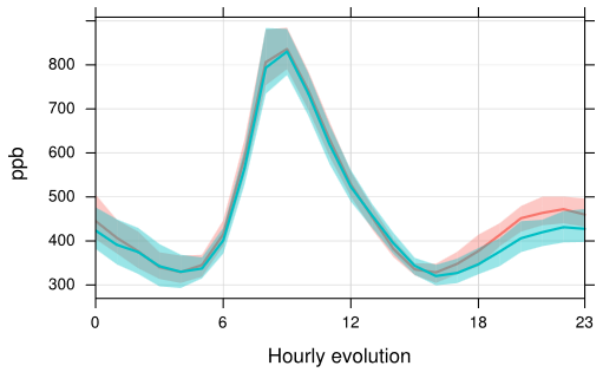
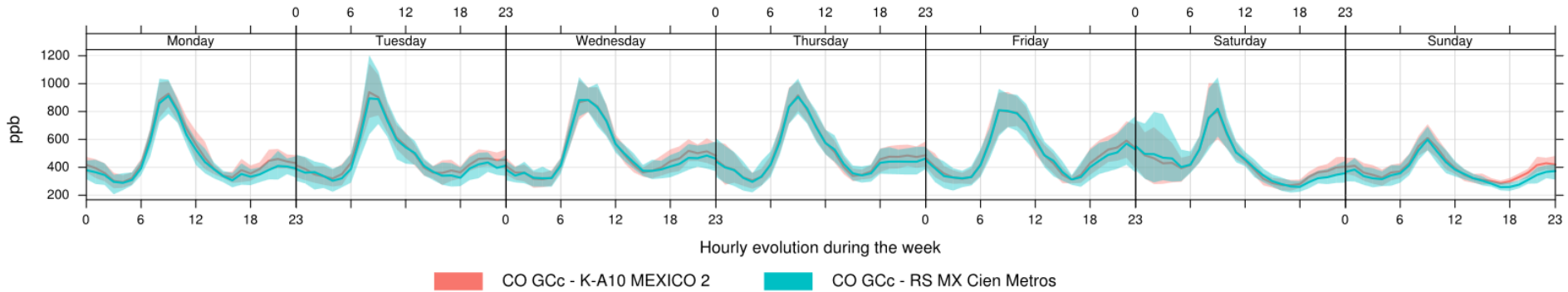
Comments: An excellent correlation between the KUNAK AIR K-A10 (blue) and reference instrument (red), is achieved. Daily, weekly and monthly trends are perfectly tracked, and similar average concentration were detected over the whole test period.

Version: KUNAK AIR V2.



CARBON MONOXIDE (CO), MEXICO CITY (Mexico), MAY-AUG'19

Time variation RS MX Cien Metros and K-A10 MEXICO 2: CO GCc



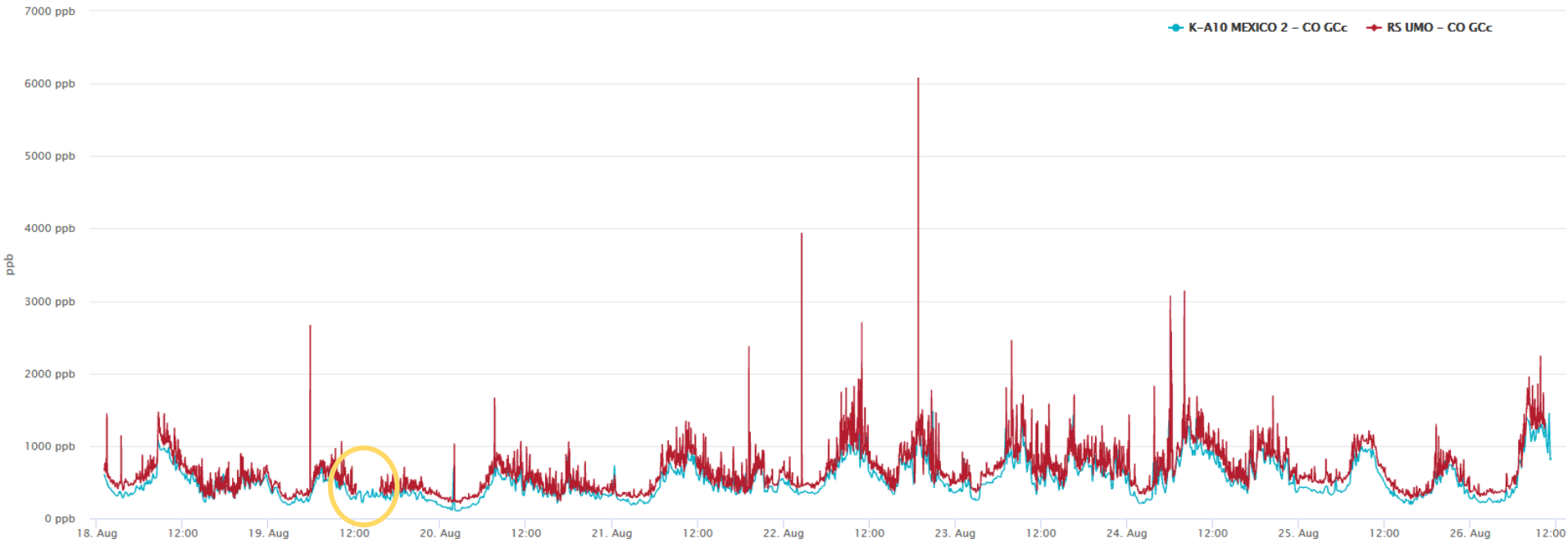
R ²	ACCY (ppb)	90% CONF. (ppb)	AVG. T (°C)	AVG. RH (%)	AVG. GC. REF (ppb)	AVG. GC. DUT (ppb)	AV REF/DUT
0.95	45.18	90.20	19.5	58.7	456.78	470.19	99.4%/100%

Phase 2. Colocation of Kunak vs. Mobile Reference

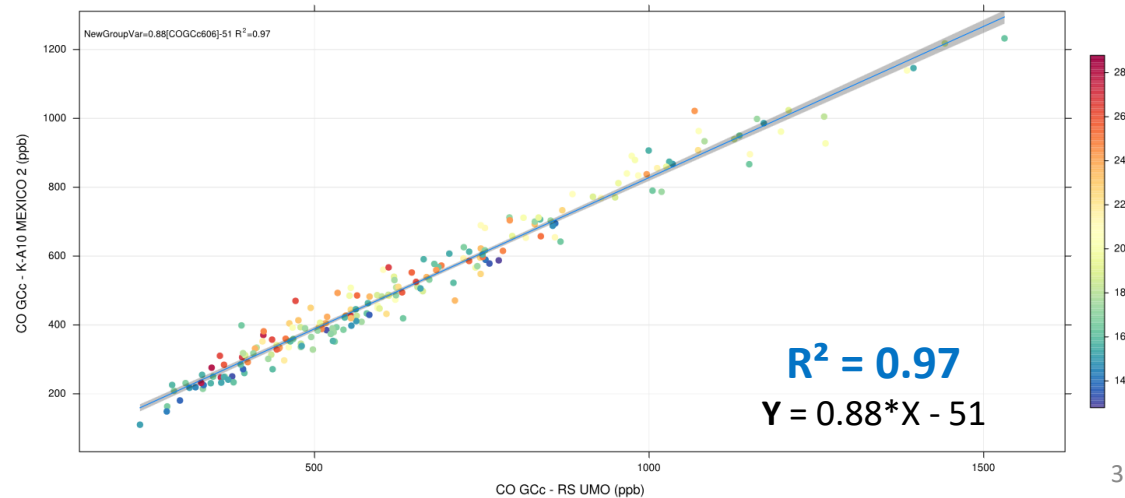
At location Zócalo, from 20th to 25th August 2019

Kunak KA-10 V2 #2 vs. UMO Reference Station

CARBON MONOXIDE (CO), MARATHON MEXICO CITY (Mexico), AUG'19



CO GCc - RS UMO vs. CO GCc - K-A10 MEXICO 2 by level of Temp ext - K-A10 MEXICO 2

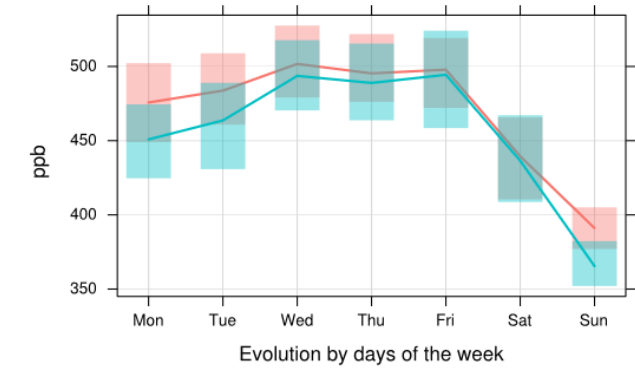
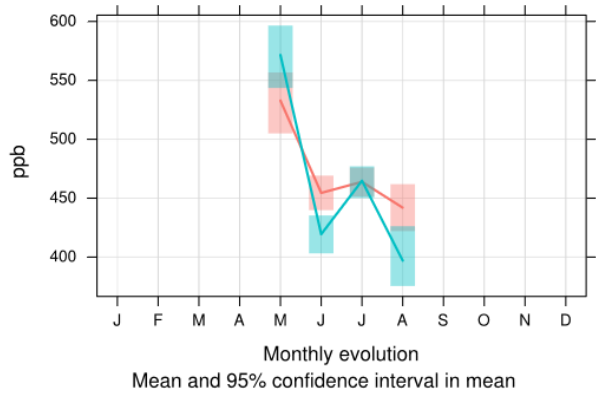
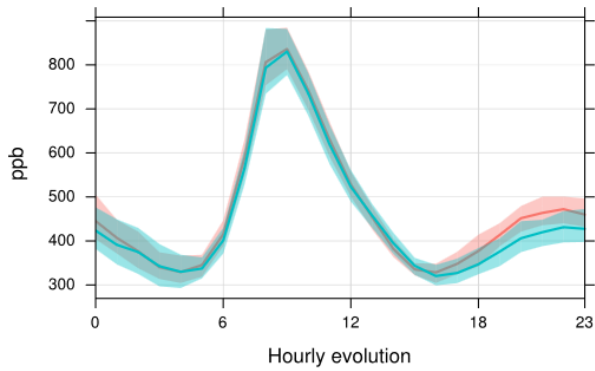
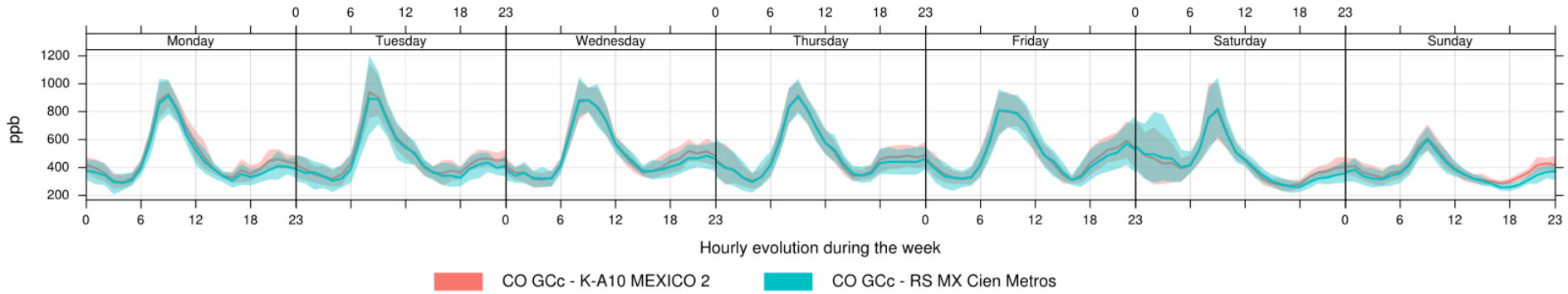


Comments: An excellent correlation between the KUNAK AIR K-A10 (blue) and reference instrument (red), is achieved. In addition, daily, weekly and monthly trends are perfectly tracked and similar average concentration were detected over the whole test period.

Version: KUNAK AIR V2.

CARBON MONOXIDE (CO), MARATHON MEXICO CITY (Mexico), AUG'19

Time variation RS MX Cien Metros and K-A10 MEXICO 2: CO GCc



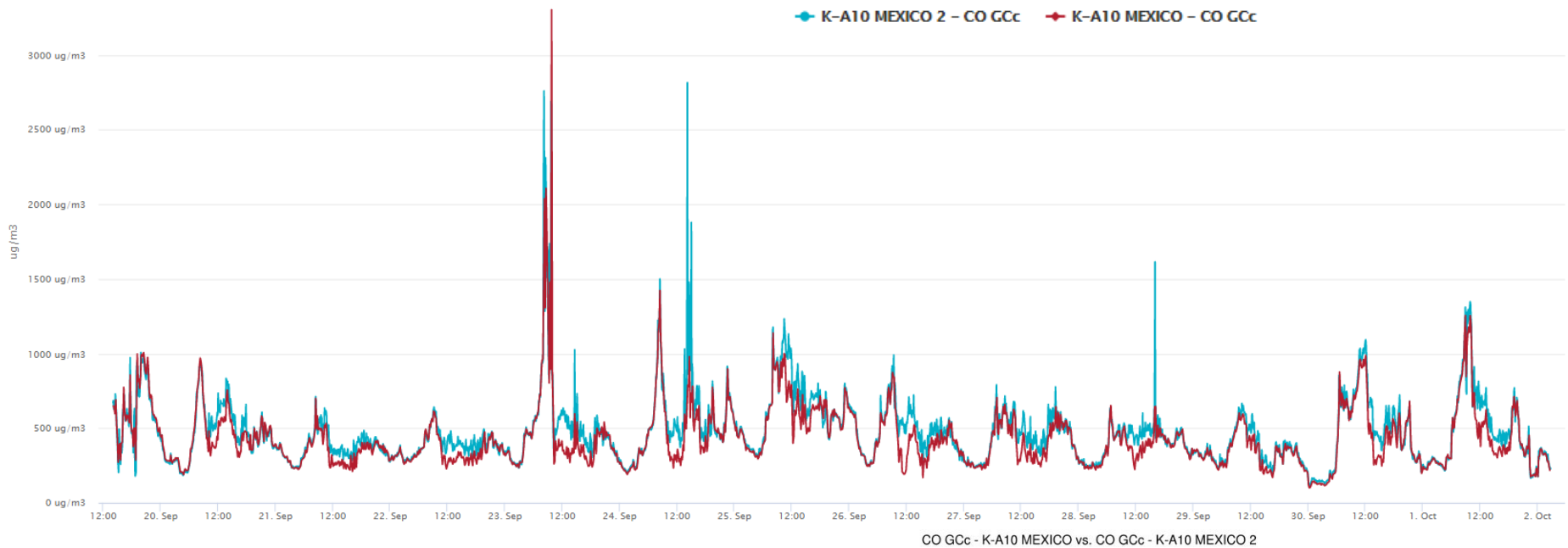
R ²	ACCY (ppb)	90% CONF. (ppb)	AVG. T (°C)	AVG. RH (%)	AVG. GC. REF (ppb)	AVG. GC. DUT (ppb)	AV REF/DUT
0.97	129.9	184.04	19.7	57.7	643.34	521.25	98.7%/100%

Phase 3. Comparison between Kunak vs. Kunak

At location Mexican Olympic Committee

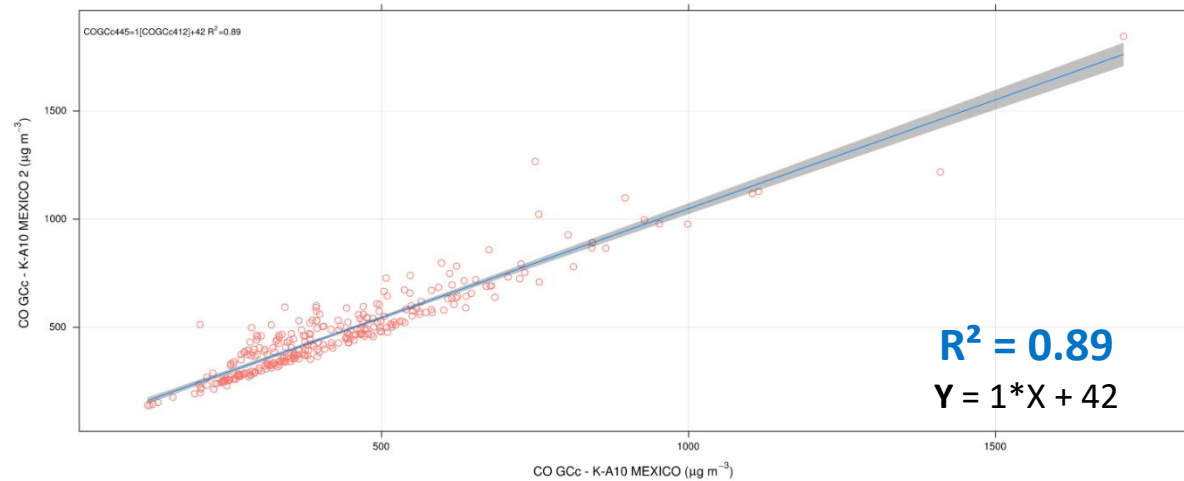
Kunak KA-10 #2 vs. Kunak KA-10 #1

CARBON MONOXIDE (CO), OLYMPIC STADIUM MEXICO CITY (Mexico), AUG'19

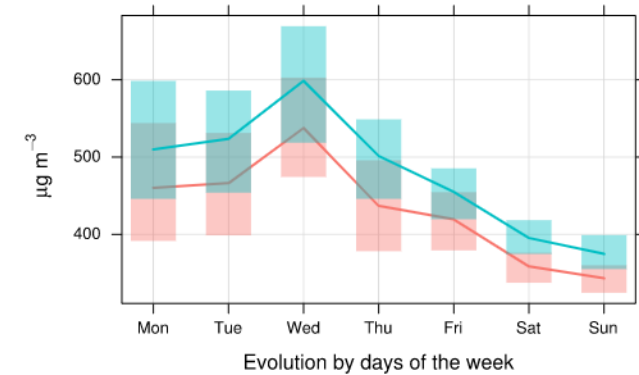
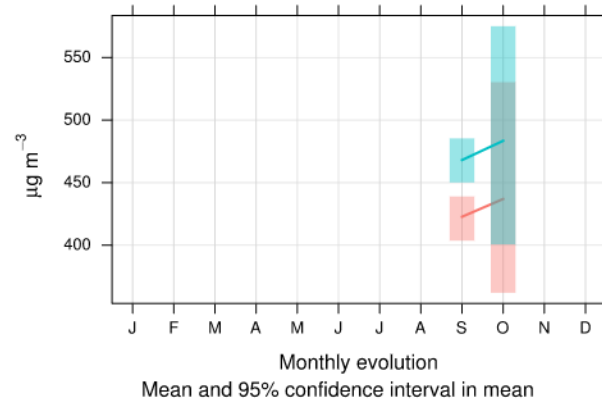
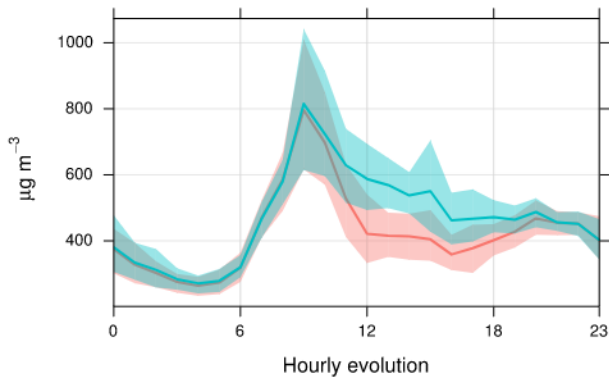
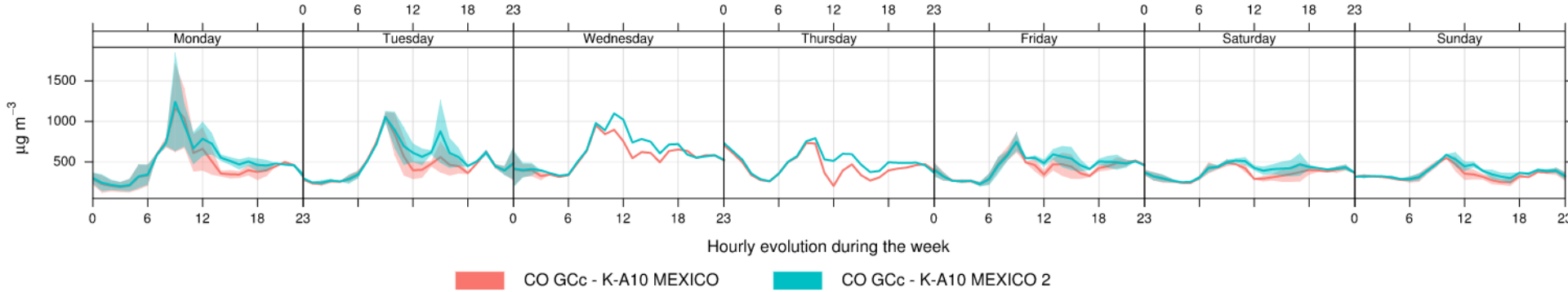


Comments: A very good correlation between the KUNAK AIR K-A10 MEXICO 2 (blue) and KUNAK AIR K-A10 MEXICO (red), is achieved. In addition, daily, weekly and monthly trends are perfectly tracked and similar average concentration were detected over the whole test period.

Version: KUNAK AIR V2.



Time variation K-A10 MEXICO 2 and K-A10 MEXICO: CO GCc



K-A10 MEXICO 2 - CO GCc (ug/m3)

Statistic
 Max: 2816.01
 Min: 117.77
 Mean: 472.72
 SD: 221.76

K-A10 MEXICO - CO GCc (ug/m3)

Statistic
 Max: 3303.97
 Min: 101.65
 Mean: 430.65
 SD: 208.97