Message

From: Hamilton, Scott [hamilton.scott@epa.gov]
Sent: 9/20/2018 6:52:54 PM
To: Fuoco, Marta [fuoco.marta@epa.gov]; Coughlin, Justin [coughlin.justin@epa.gov]
Subject: RE: OH report language

Special Note on Data Collected with DUVAS Technologies DV3000
The DUVAS Technologies DV3000 spectrometer uses a proprietary software program and algorithm to deconvolute raw spectral data and determine pollutant concentrations. Raw spectral data are generated from the spectrometer photodiode array. Raw spectral data are processed through the software under user defined conditions to determine pollutant concentrations. The DV3000 instrument also saves the raw spectral data at a rate of approximately 1 per second for future reprocessing using the DUVAS software.

During the field monitoring on 5/7-9/2018 and 5/23-25/2018 the DV3000 measurements were made using the software default settings for the upper and lower absorbance limits of 200-340 nm. These limits set the lowest and highest wavelength that the solver processes for. The range of 200-340 nm will allow for the software to solve for as many gas absorptions as possible. However, this can also introduce interferences in the pollutant concentrations. After an initial review of the data using the default settings of 200-340 nm it was determined that the benzene concentrations included interferences. After consulting with DUVAS Technologies the raw spectral data were reprocessed using a wavelength range of 240-280 nm.

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From: Fuoco, Marta
Sent: Thursday, September 20, 2018 12:09 PM
To: Hamilton, Scott <hamilton.scott@epa.gov>; Coughlin, Justin <coughlin.justin@epa.gov>
Subject: OH report language

Michael would like me to have the OH GMAP report out the door before he leaves Monday afternoon for the TSA. Can you send me language to include in the QA memo and the report on the data reprocessing?
Thanks

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