

Cathie Allen

From: Cathie Allen
Sent: Monday, 23 November 2015 9:16 AM
To: Luke Ryan
Subject: RE: Quantifiler Trio Issue

Great summary Luke!

Cathie Allen BSc MSc (For Sci)

Managing Scientist - Police Services Stream (Forensic Chemistry & Forensic DNA Analysis)

Forensic & Scientific Services | Health Support Queensland

Department of Health | Queensland Government



HealthSupport
Queensland

From: Luke Ryan
Sent: Friday, 20 November 2015 3:53 PM
To: Allan McNevin; Amanda Reeves; Cathie Allen; Justin Howes; Kirsten Scott; Kylie Rika; Megan Mathieson; Sharon Johnstone
Subject: Quantifiler Trio Issue

Afternoon All

Analytical have been experiencing some issues with bubbles in Quantifiler Trio plates, which is due to the SDS present in the Quantifiler Trio reagents. The bubbles cause issues with signal detection in the 7500. To try and reduce the bubbles, on Thursday last week the MPII program for Quant Trio was slightly modified and tested on a couple of test batches. Following this modification in the MPII Quant Trio protocol Pre-PCR operators noticed there were droplets on the end of the disposable tips after the sample was being added to the well. After reviewing the quant batches from last Friday it appears these droplets were potentially the 2uL of sample which should have been added to the wells. It appears some samples have not had the sample added to the quant plate and have resulted in undetermined quant values. Also it was noted on a couple of the reference quant batches that a large majority of the samples were undetermined which is unusual for reference samples.

Based on this all quant batches processed from Friday 13th to/including Wednesday 18th November (i.e. all of those prepped with the updated MPII Quant Trio protocol) have all been reviewed, and all samples with undetermined quant values have been re-quant. All affected quant batches will have batch audit entries and specimen notes will be only added to the samples requiring re-quant. Samples which were No DNA Detected on the first Quant, but give a second Quant result above the No DNA Detected threshold will be amplified and processed as normal.

We have reverted to the previous version of the MPII Quant Trio protocol, and further troubleshooting to reduce the bubbles is ongoing.

Attached is a spreadsheet of all the batches affected and the samples with undetermined quant values. Any EXTN, ENVM and M'CON samples were not re-quant. Some results are still to be uploaded to Auslab.

I have added this to the Adverse Events Log.
If you have any questions please come and see me.
Thanks
Luke

Luke Ryan

A/Team Leader - Evidence Recovery & Quality

Forensic DNA Analysis

Police Services Stream | Forensic and Scientific Services | Health Support Queensland

Department of Health/Hospital and Health Service | Queensland Government

