



Note for file

Date and time	12 May 2021
Type of event (e.g. meeting/ telephone conversation)	Activity
Topic	Acceptance Check - Post NATA Calibration of ATI 100Xs ALICAT Flow Meter
Participants	s22

References:

VIPAC NATA Calibration Report 47593396-0 dated 03 may 2021 [\[D21-2602345\]](#)

Excel Spreadsheet plot of test results [\[D21-2631173\]](#)

Background

ALICAT MCR-250SLPM-D/5M was extracted from the PFE tester ATI 100Xs and sent to VIPAC Gas Technology Services for NATA calibration.

A 15VDC @ 1.2A power supply accompanied the flowmeter to power it up at the cal lab.



The flow meter was photographed prior to extraction so that it could be re-connected upon return. Before shipment it wrapped in plastic to safeguard against contamination and wrapped in bubble-wrap before placing in a box with sufficient cushioning to prevent damage by couriers during transport.

Upon return from NATA calibration the instrument was inspected for damage and the calibration label checked to ensure all details were correct.

The calibration certificate was also checked to ensure customer and instrument details were correct.

The report data was checked to ensure test results confirmed the DUT was within manufacturer's specifications. The report was also compared to the previous OEM calibration report to establish that there was no significant drift since last calibration.

Test results were plotted in Excel to visualise flow linearity and to discern the difference between indicated flow rate and accepted true value taking into account the calibration laboratories' UoM.

The purpose of the NATA calibration was to confirm the DUT was and still is within the manufacturer's specifications.

At the time of return (11/5/21), the DUT was not able to be powered up to confirm operability because the AT1100Xs was off line due to photometer being away for calibration.

Upon photometer return the instrument will undergo full performance checking prior to testing masks. *Update 25/5/21- Instrument powered up and tested a range of high efficiency masks as well as verifying performance using 4,3,2 sheets of greenline media. Instrument performed as expected.*

