

Name

Contact Person

Address

**Purpose**

The purpose of this approval page is to replace the single signatures on each document listed below. With signing this document the signatories approve and accept the content of all listed documents, and agree that the testing results meet specified business, quality requirements and any exemptions noted within the report. The detailed meaning of the signature is defined at the fields Tecan Service Technician and Customer.

Note: It may be found in the document bundle Tecan Service Technician signature/ date fields are empty. Depending on the configuration of instrument, sections of documents can be omitted and may not be displayed. Tecan accepts and judge these as - NOTAPPLICABLE – fields related to the scope of the document.

**Statement of disclaimer**

This document is issued electronically and remains the exclusive property of Tecan and may not be manipulated or reproduced in any form, without prior written permission from Tecan.

**List of documents**

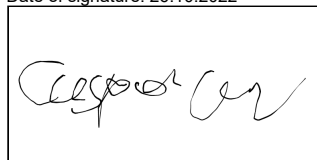
| Date       | Document Name                                    | Description                       |
|------------|--|-----------------------------------|
| 26.10.2022 | ServiceReport_4488041_Københavns Universitet.pdf | Service Report                    |
| 26.10.2022 | PSC_392819_PM-FreedomEVO.pdf                     |                                   |
| 26.10.2022 | Basic_info.pdf                                   | Basic_info.pdf                    |
| 26.10.2022 | Liquid_Tests.pdf                                 | Liquid_Tests.pdf                  |
| 26.10.2022 | LDE_Test.pdf                                     | LDE_Test.pdf                      |
| 26.10.2022 | Tip_adapter_Test.pdf                             | Tip_adapter_Test.pdf              |
| 26.10.2022 | Safety_Test.pdf                                  | Safety_Test.pdf                   |
| 26.10.2022 | PosID_Tests.pdf                                  | PosID_Tests.pdf                   |
| 26.10.2022 | Te-vacs_tests.pdf                                | Te-vacs_tests.pdf                 |
| 26.10.2022 | Te-shake_test.pdf                                | Te-shake_test.pdf                 |
| 26.10.2022 | Gravimetric_Test.pdf                             | Gravimetric_Test.pdf              |
| 26.10.2022 | Balance, C146996518, 20211130.pdf                | Balance, C146996518, 20211130.pdf |
| 26.10.2022 | EVOware_S7_Certificate.pdf                       | EVOware_S7_Certificate.pdf        |
| 26.10.2022 | EVO_Basic_ServiceCertificate.pdf                 | EVO_Basic_ServiceCertificate.pdf  |

**Tecan Service technician:**

Meaning of the signature:

I herewith confirm that I have authored the above listed documents. I have checked the testing results and inspection data, and confirm that they meet Tecan's specified requirements for equipment operation. I approve the data based on the scope of my responsibility and expertise.

Date of signature: 26.10.2022




Tecan service technicians will provide customer with complete service order documentation. Customer signature is required for any servicing or required testing exemptions.

**Customer:**

Customer Meaning of the signature:

I herewith confirm that I have reviewed, accepted and approved the content of the above listed documents. I herewith accept the testing results and inspection data based on the scope of my responsibility and expertise. The content of the documents meets all applicable business and quality requirements and reflects the procedures described.

Date of signature: 26.10.2022



|                      |  |                    |                |
|----------------------|--|--------------------|----------------|
| Service order number | 4488041  | Phone              | +4551900407    |
| Customer's adress    | Københavns Universitet<br>Frederik V's Vej 11<br>DK-2100 København Ø | Contact person     | Ragnar Thomsen |
|                      |  | Date call received | 10.08.2022     |
|                      |  | Date of service    | 26.10.2022     |
|                      |  | PO number          | 32485          |

|                       |                                      |                   |           |
|-----------------------|--------------------------------------|-------------------|-----------|
| Equipment number      | 10528066                             | Serial number     | 910009427 |
| UDI                   |                                      |                   |           |
| Equipment description | INSTRUMENT FREEDOM EVO 200 BASE UNIT |                   |           |
| Symptoms - Group code | 999                                  | Symptoms - Coding | 030       |

|                            |  |
|----------------------------|--|
| Solution/Corrective action | 2022-10-26 4:30 PM CEST CA082001 Casper Olsen:<br>PM Done.<br>Random move test skipped due to obstructed worktable. Roma reference plate test skipped due to modified fingers.<br>Instrument tested and found OK.<br>Tips used:<br>PN 10612553 Lot 5119539 Exp 2025-12 |
|----------------------------|--|

BC (Bill Code):      Z1 = Good will                      Z2 = Warranty                      Z3 = To be invoiced                      Z4 = Warranty on Repair  
                                 Z5 = Contract                      Z6 = Installation

| Component | Description                           | Quantity | Serial # Added | Serial # Removed | BC |
|-----------|---------------------------------------|----------|----------------|------------------|----|
| 30096396  | KIT MAINT. ANUAL V2 DITI 8 EVO 200    | 1        |                |                  | Z5 |
| 30198166  | ADAPTER TIP SLIDER STD. W/O PMP SPARE | 8        |                |                  | Z5 |
| 10619863  | CABLE ILID SET 4 PCE. GENESIS FREEDOM | 2        |                |                  | Z5 |
| 10649031  | SPRING GAS PANEL FRONT FREEDOM EVO    | 2        |                |                  | Z5 |

**Instrument status at time of service report**

- Repaired - Normal Utilization can continue
- Fault/Defect not reproducible - Normal utilization can continue
- Fault/Defect still present
- ✓ Maintenance Done
- Installation Done

| Date       | Work Hours (hh:mm) | BC | Travel Hours (hh:mm) | BC | Distance | BC |
|------------|--------------------|----|----------------------|----|----------|----|
| 26.10.2022 | 8:30               | Z5 | 2:00                 | Z5 |          |    |

**Verification tools used**

\* Serial number or batch ID will be listed if applicable for tool

| Tool Description            | Serial #   | Batch # |
|-----------------------------|------------|---------|
| BALANCE MODULE WXS205SDU/15 | C146996518 | -       |

## PSC\_392819\_PM-FreedomEVO

**Purpose:**

This form serves the TECAN authorized Service Technician as a checklist on the preventative maintenance process. However, this form does not contain the procedure in detail (refer to reference documents and to the SOP Field intervention Doc 10402TMs01). This checklist serves for hardware verification only and does not cover any process validation. Actions flagged N/A must be explained in the notes section of this document if the reason differs from the description text. Skipped or failed actions must always be explained. Printed versions of this checklist must always be bundled with the corresponding associated documents.

**Disclaimer:**

Depending on the configuration of instrument, sections of checklist can be omitted and may not be displayed.

**1. General Information**

|                  |                                    |
|------------------|------------------------------------|
| Document Title   | Preventive Maintenance Freedom EVO |
| Document Number  | 392819                             |
| Document Version | 3.7                                |

**Customer information**

|                 |   |
|-----------------|---|
| Service Order # | 000004488041  |
| Contact person  | Københavns Universitet  |
| Performed By    | Casper Olsen ( <a href="mailto:casper.olsen@tecan.com">casper.olsen@tecan.com</a> ) |

**Instrument information**

|               |  |
|---------------|--|
| Instrument    | INSTRUMENT FREEDOM EVO 200 BASE UNIT; Københavns Universitet |
| Code          | 10528066; 121897-121897                                      |
| Serial Number | 910009427;   |

**2. Configuration**

|              |   |
|--------------|---|
| Safety label | Please update equipment configuration prior to capture of any values. |
|--------------|---|

The chapter is reflecting the equipment characteristics. If the characteristics is wrong the adjustments needs to performed in the equipment object. After the changes please perform a value reset and the new and changed characteristic will be updated.

**2.1. Equipment Type**

|                    |        |
|--------------------|--------|
| Instrument Type    | EVO-2  |
| Instrument Size    | 200    |
| Front Safety Panel | CLOSED |

**2.2. Freedom EVO Arm**

|                 |     |
|-----------------|-----|
| Arm LiHa 1      | YES |
| Arm LiHa 2      | NO  |
| Arm Air LiHa 1  | NO  |
| Arm Air LiHa 2  | NO  |
| Arm MCA384      | NO  |
| Arm MCA96       | NO  |
| Arm PNP         | NO  |
| Arm RoMa Long 1 | NO  |
| Arm RoMa Long 2 | NO  |
| Arm RoMa Std 1  | YES |
| Arm RoMa Std 2  | NO  |

**2.3. Channels LiHa 1**
**LiHa 1 Channel 1**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**LiHa 1 Channel 2**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**LiHa 1 Channel 3**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**LiHa 1 Channel 4**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**LiHa 1 Channel 5**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**LiHa 1 Channel 6**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**LiHa 1 Channel 7**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**LiHa 1 Channel 8**

|              |                 |
|--------------|-----------------|
| Syringe Type | 1000µL          |
| Tubing Type  | STANDARD TUBING |

**2.6. Options**

|                  |     |
|------------------|-----|
| Wash Refill      | NO  |
| Dust Cover       | YES |
| Te-Shake         | YES |
| Te-MagS          | NO  |
| Te-Link          | NO  |
| Te-Stack         | NO  |
| Te-VacS          | YES |
| Te-PoolSafe      | NO  |
| PosID-3          | YES |
| Multisense (PMP) | NO  |
| Te-Fill          | NO  |
| Te-PS            | NO  |

**3. Reference Documents**

|                           |                                      |
|---------------------------|--------------------------------------|
| Document [No. 392887]     | Freedom EVO-1 Service Manual         |
| Document [No. 393828]     | Freedom EVO-2 Service Manual         |
| Document [No. 392886]     | Freedom EVO Operating Manual         |
| Document [No. 392888]     | Instrument Software Manual           |
| Document [No. 10301TMT01] | Out of Box Quality Report (393030)   |
| Document [No. 40205TMT01] | Certificate Of Decontamination (CoD) |

**4. Actions**

**Please proceed to the next chapter**

**4.1. System**

| System                   |           |  |        |
|--------------------------|-----------|--|--------|
| Task                     | Interval  | Further Description                      | Status |
| Air filter in dust cover | Every PM  | Replace as needed                        | N/A    |
| Complete Freedom EVO     | Every PM  | Verify that the system is decontaminated | Done   |
| Complete Freedom EVO     | 12 months | Clean system                             | Done   |
| Frontal arm guide        | 12 months | Clean                                    | Done   |
| Worktable                | 12 months | Visually inspect, check grids            | Done   |
| Worktable                | 12 months | Replace grids if worn out or broken      | N/A    |
| X-rail                   | 12 months | Clean and apply thin layer of grease     | Done   |
| Front safety panel       | 36 months | Replace gas spring                       | Done   |

**4.2. Liquid LiHa**

| Liquid LiHa                  |           |   |        |
|------------------------------|-----------|---|--------|
| Task                         | Interval  | Further description                     | Status |
| Arm                          | 12 months | Visually inspect                        | Done   |
| Support Tubing               | 12 months | Check condition                         | Done   |
| Support Tubing               | 12 months | Replace if necessary                    | N/A    |
| Z-Rod                        | 12 months | Clean and apply thin layer of grease    | Done   |
| Fixed Tips                   | 12 months | Replace                                 | N/A    |
| DiTi Cone and Tube Extension | 12 months | Replace                                 | Done   |
| Waste Tubing                 | 12 months | Check condition                         | Done   |
| Waste Tubing                 | 12 months | Replace if damaged, clogged or dirty    | Done   |
| Diluters                     | 12 months | Replace syringes                        | Done   |
| Diluters                     | 12 months | Replace 3-way valves                    | Done   |
| Liquid System                | 12 months | Replace aspirating tubing               | Done   |
| Liquid System                | 12 months | Replace interconnecting tubing          | Done   |
| Liquid System                | 12 months | Replace pipetting tubing                | Done   |
| Tip Adapter                  | 24 months | Replace Tip Adapter (DiTi systems only) | Done   |
| Liquid Detection             | 24 months | Replace ILID cables                     | Done   |

#### 4.6. RoMa

RoMa

| Task  | Interval  | Further description | Status |
|-------|-----------|---------------------|--------|
| Arm   | 12 months | Visually inspect    | Done   |
| Z-Rod | 12 months | Clean               | Done   |

#### 4.12. System Devices / Move Test

System Devices / Move Test

| Test   | Acceptance Criteria / Further description   | Status |
|--|---|--------|
| Random Move Test                                   | Duration 600 cycles, Re-init 200 cycles   | N/A    |
| Random Move Test 2 in case of obstructed worktable | Run either the Move Test or the Move Test2, Duration 600 cycles, Re-init 200 cycles | N/A    |

Actions flagged N/A must be explained in the notes section of this document if the reason differs from the description text. ☒ YES ☐ NO

Skipped or failed actions must always be explained.

Comments / Description

Test skipped due to obstructed worktable

#### 4.13. System Devices / LiHa

System Devices / LiHa

| Test                         | Acceptance Criteria / Further description    | Status |
|------------------------------|--|--------|
| Verify Reference Positions   | Reference positions accurately               | Passed |
| Tip Adapter Test             | Test passed with all available DiTi channels | Passed |
| Flush tips once sequentially | Order of pipetting tubing is correct         | Passed |

#### 4.14. Liquid System / DiTi Test (LiHa)

Liquid System / DiTi Test (LiHa)

| Test                    | Acceptance Criteria / Further description    | Status |
|-------------------------|--|--------|
| (Lower) DiTi Eject Test | Test passed with all available DiTi channels | Passed |

#### 4.20. Liquid System / Liquid System (LiHa)

Disclaimer

It's required to perform this test by using conductive tips only!

Liquid System / Liquid System (LiHa)

| Test (A minimum of 2 tests need to be performed) | Acceptance Criteria / Further description | Status |
|--|---|--------|
| Liquid Level Detection Test                      | Test passed with trough rack              | Passed |
| Liquid Level Detection Test                      | Test passed with micro plate              | N/A    |
| Liquid Level Detection Test                      | Test passed with strip rack               | Passed |

#### 4.22. Liquid System / Liquid System

Disclaimer

It's required to perform this test by using conductive tips only!

Liquid System / Liquid System

| Test (A minimum of 2 tests need to be performed) | Acceptance Criteria / Further description | Status |
|--|---|--------|
| FaWa Test  | Test passed with all available channels   | Passed |

#### 4.23. Liquid LiHa Precision Test

Precision Test Method

Gravimetric

##### Tip Type

DiTi 200µl

☒ YES ☐ NO

##### Non-standard Configuration

##### 4.23.1. Liquid LiHa Gravimetric Precision Test

Disclaimer

It's required to perform the tests at all indicated volumes of the appropriate tip configuration by using conductive tips only!

##### Tip Types

##### DiTi 200µl

Liquid System Configuration

Syringe 1000µl, 250µl or 500µl

Acceptance Criteria / Further Description

Test passed at 10µl with CV ≤ 3.5% and at 100µl with CV ≤ 0.75%

Status

Passed

#### 4.26. System Devices / RoMa

System Devices / RoMa

| Test                 | Acceptance Criteria / Further description | Status |
|----------------------|---|--------|
| Reference Plate Test | Passed with 10 cycles                     | N/A    |

Actions flagged N/A must be explained in the notes section of this document if the reason differs from the description text. ☒ YES ☐ NO

Skipped or failed actions must always be explained.

Comments / Description

Test skipped due to modified roma fingers

#### 4.33. System Devices / PosID

System Devices / PosID

| Test                       | Acceptance Criteria / Further description | Status |
|----------------------------|---|--------|
| Reading Position (PosID-3) | Test passed                               | Passed |
| No Tube Sensor             | Test passed                               | Passed |
| Barcode Reading            | Test passed with 5 cycles                 | Passed |

#### 4.34. Options / Access Status Options

Options / Access Status Options

| Test  | Acceptance Criteria / Further description | Status |
|---|---|--------|
| I/O Module Tests                                      | Test passed                               | N/A    |
| Loading Interface Tests                               | Test passed                               | N/A    |
| RSS Tests   | Test passed                               | N/A    |
| SPO/MPO Sensor Tests                                  | Test passed                               | N/A    |
| Safety Tests (refer to Safety Tests Disclaimer below) | Test passed                               | Passed |

Safety Tests Disclaimer

If door locks are bypassed on standard instruments, please re-activate the door locks, perform all safety tests and use the comment section to document this occurrence. Also inform the customer that bypassing the door locks is strictly forbidden and if they'll bypass the door locks, the result is that the instrument is not used as intended and in case of an accident the customer will be made liable! In any case, if safety tests have not been accomplished, please specify it in the comment section of this document!

#### 4.38. Options / Te-Shake

Options / Te-Shake

| Test     | Acceptance Criteria / Further description | Status |
|----------|---|--------|
| Te-Shake | Test passed                               | Passed |

#### 4.39. Options / Te-VacS

Options / Te-VacS

| Test    | Acceptance Criteria / Further description | Status |
|---------|---|--------|
| Te-VacS | Test passed                               | Passed |

#### 4.42. Options / 3rd Party Devices

Disclaimer

Please check N/A if there are no 3rd Party Devices installed.

Devices

| Device Type / Brand | Acceptance Criteria / Further Description | Status |
|---------------------|---|--------|
| Ultravap            | Operation verified, functional for use    | N/A    |
| VSpin               | Operation verified, functional for use    | N/A    |
| Balance             | Operation verified, functional for use    | N/A    |

Actions flagged N/A must be explained in the notes section of ☒ YES ☐ NO  
this document if the reason differs from the description text.

Skipped or failed actions must always be explained.

Comments / Description

No testing of device done during PM

#### 4.44. Additional Tests

Disclaimer

Check N/A in case no additional tests are required.

N/A

☒ YES

☐ NO

#### 4.45. Setup and Service Software Module

Setup and Service Software Module

| Task                                   | Further Description                                 | Status |
|--|---|--------|
| Create EEPROM backup files             | Using the Instrument / Basic Setup panel within S&S | Done   |
| Make a print out of system information | Using the Instrument / Information panel within S&S | Done   |

#### 4.46. Remote Access

Disclaimer

Internet access for the EVO PC is strongly recommended to allow remote diagnosis and support through remote access. If task checked N/A, please state the reason in the Comment section.

Remote Access

| Task  | Acceptance Criteria / Further Description                    | Status |
|---|--|--------|
| Connect EVO PC to the internet and prepare it for remote access | EVO PC connected to the internet and ready for remote access | N/A    |

Actions flagged N/A must be explained in the notes section of ☒ YES ☐ NO  
this document if the reason differs from the description text.

Skipped or failed actions must always be explained.

Comment

Customer does not allow instrument PC to be connected to the Internet

#### 4.47. IoT Client

IoT already installed

☒ YES

☐ NO

**4.48. Tecan Mobile Tool**

Disclaimer

The Tecan Mobile Tool / SAP FSM (Field Service Management) is a tool to update the equipments / instruments history or configuration into the Tecan database.

Tecan Mobile Tool

| Task                                    | Further Description          | Status |
|---|------------------------------|--------|
| Maintain equipment characteristics data | In SAP/FSM (e.g. SW version) | Done   |

**4.49. Tecan Maintenance Sticker**
**Tasks**

Fill in the due date for the next maintenance and place the sticker on the instrument

Further Description

Please place the sticker preferably on the top left side of the front safety panel or top cover (the sticker must be visible)

Status

Done

**6. Signatures**

Confirmation

The service technician confirms with signature that the intervention was performed in accordance to this checklist and the published Tecan procedures that apply to the instrument listed on this form.

Maintenance Date

26.10.2022

Checklist specific signature is NOT required

☒ YES ☐ NO

Service Bundle

☒ YES ☐ NO

| Doc. No. | Title                              | Version | Effective Date | Author        |
|----------|------------------------------------|---------|----------------|---------------|
| 392819   | Preventive Maintenance Freedom EVO | 3.7     | 2020-05-11     | Denis Delalic |



Basic\_info.pdf



## QC Report

### Instrument Information

Information.dll Version: 1.25.1.0  
Panel.dll Version: 1.27.1.0  
Genesis.dll Version: 1.27.1.0  
GUIExtensions.dll Version: 1.26.1.0  
OSpp.dll Version: 1.25.1.0  
Setup and Service Version: 8.0.1.0  
Computer Name: NBSEST007991.tecan.net

Instrument Type: EVO  
Instrument Serial Number: 910009427  
Tools [Type, SN]: None specified  
Date: 26/Oct/2022 12:21:42

Operator: Date: Signature:

### Instrument Information

#### Instrument Properties

Type: freedom evo

Size: 200

Arm order

| Arm | Addr    | Movable Range [mm] | Deviation [mm] | Deviation Limit [mm] |
|-----|---------|--------------------|----------------|----------------------|
| 1   | LiHa C5 | 1602.0             | -130.0         | na                   |

#### Diagnostics Data

Power Ups: 3651

On Time [h]: 20535.72

Downloads: 1

Page erases: 450

#### Device Information

| Device | Firmware | Bootware                    | Serial Number |
|--------|----------|-----------------------------|---------------|
| C6T00  | DCSERVO2 | V1.21-04/2007 V1.00-05/2003 | -             |

Instrument Information Instrument Serial Number: 910009427 Date: 26/Oct/2022 12:21:42 Page 1/6

|       | Device   | Firmware      | Bootware                  | Serial Number |
|-------|----------|---------------|---------------------------|---------------|
| C6T02 | DCSERVO2 | V1.21-04/2007 | V1.00-05/2003             | -             |
| C6T04 | DCSERVO2 | V1.21-04/2007 | V1.00-05/2003             | -             |
| C6T06 | DCSERVO2 | V1.21-04/2007 | V1.00-05/2003             | -             |
| C6T08 | DCSERVO2 | V1.21-04/2007 | V1.00-05/2003             | -             |
| C6T0A | DCSERVO2 | V1.21-04/2007 | V1.00-05/2003             | -             |
| P2T00 | DCSERVO2 | V1.21-04/2007 | V1.00-05/2003             | -             |
| P2T02 | DCSERVO2 | V1.21-04/2007 | V1.00-05/2003             | -             |
| C6T20 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 1109004100    |
| C6T21 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 909005133     |
| C6T22 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 909005134     |
| C6T23 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 909005135     |
| C6T24 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 909005136     |
| C6T25 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 909005137     |
| C6T26 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 909005138     |
| C6T27 | XP2000   | V1.10-03/2006 | V1.02-04/2002             | 910005135     |
| P2T04 | DS1100   | V1.040        | DS1100-Boot-V1.00-01/2005 | -             |
| C5    | LIHACU   | V1.72-07/2015 | V1.10-04/2007             | 910009433     |
| C6T30 | MPO      | V3.20-04/2007 | V1.00-08/2003             | 0             |
| O7    | ORBI     | V1.10-07/2001 | V1.20-09/99               | 7946          |
| P1    | POSID3   | V1.21-08/2007 | V1.10-04/2007             | 910009438     |
| O1    | SAFY     | V1.30-04/2008 | V1.10-12/99               | 9390023       |
| O5    | SPE      | V2.10-12/01   | V1.00-11/99               | 7019          |
| M1    | TECU     | V1.40-12/2007 | V1.10-07/2005             | 910009427     |

#### LiHa Arm

Address: C5  
 Serial Number: 910009433  
 Firmware Version: V1.72-07/2015  
 Bootware Version: V1.10-04/2007  
 Tips: 8  
 Spacing: 9.0 - 38.0 mm variable  
 Lower DiTi Eject: available  
 LLD Type: Standard ilid

#### Axes Parameters

|    | Offset | Displ | Range  | Scale  | Accel | Speed  | Move Speed |
|----|--------|-------|--------|--------|-------|--------|------------|
| X  | 1.0    | -16.0 | 1586.0 | 0.9996 | 160.0 | 1000.0 | 100.0      |
| Y  | 1.0    | -86.9 | 286.6  | 0.9985 | 240.0 | 350.0  | 35.0       |
| Ys | 1.0    | 9.0   | 38.0   | 0.9996 | 240.0 | 350.0  | 35.0       |
| Z1 | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z2 | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z3 | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z4 | 7.6    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z5 | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |

Instrument Information Instrument Serial Number: 910009427 Date: 26/Oct/2022 12:21:42 Page 2/6

|    | Offset | Displ | Range | Scale  | Accel | Speed | Move Speed |
|----|--------|-------|-------|--------|-------|-------|------------|
| Z6 | 7.7    | -50.0 | 260.0 | 1.0000 | 200.0 | 400.0 | 40.0       |
| Z7 | 7.7    | -50.0 | 260.0 | 1.0000 | 200.0 | 400.0 | 40.0       |
| Z8 | 7.7    | -50.0 | 260.0 | 1.0000 | 200.0 | 400.0 | 40.0       |

## Diagnostics Data

|    | Moves   | Moves (cl) | Distance | No-Loads | Fetches DIT/s | Piercings | Status |
|----|---------|------------|----------|----------|---------------|-----------|--------|
| X  | 1811484 | 1811484    | 530685   | 15       | -             | -         | ready  |
| Y  | 1801653 | 1801653    | 162537   | 50       | -             | -         | ready  |
| Ys | 1804336 | 1804336    | 163999   | 46       | -             | -         | ready  |
| Z1 | 5968707 | 5968707    | 386332   | 110      | 203899        | 0         | ready  |
| Z2 | 4598169 | 4598169    | 329393   | 81       | 143148        | 0         | ready  |
| Z3 | 4512625 | 4512625    | 324511   | 61       | 136416        | 0         | ready  |
| Z4 | 4478996 | 4478996    | 321680   | 41       | 134839        | 0         | ready  |
| Z5 | 4429285 | 4429285    | 318068   | 51       | 130941        | 0         | ready  |
| Z6 | 4416471 | 4416471    | 317287   | 46       | 129879        | 0         | ready  |
| Z7 | 4371969 | 4371969    | 313589   | 61       | 123062        | 0         | ready  |
| Z8 | 4349286 | 4349286    | 311841   | 64       | 121225        | 0         | ready  |

Te-Fill: NA

## PosID3

Address: P1  
Serial Number: 910009438  
Firmware Version: V1.21-09/2007  
Bootware Version: V1.10-04/2007  
Scanner Serial Number: C08N00237  
Scanner Firmware Version: CAP000 rel. 1.04.0  
Scanner Bootware Version: DS1100-Boot-V1.00-01/2005

## Axes Parameters

|   | Offset | Displ  | Range  | Scale  | Accel | Speed |
|---|--------|--------|--------|--------|-------|-------|
| X | 1.0    | -84.2  | 1663.9 | 1.0001 | 90.0  | 500.0 |
| Y | 1.0    | -318.8 | 5.1    | 1.0000 | 140.0 | 360.0 |
| B | 10.0   | -94.9  | 101.8  | 1.0000 | 140.0 | 200.0 |

## Diagnostics Data

Power ups: 3624  
Minute meter: 1165134  
FW downloads: 0  
FW page erased: 193

## Axes

|   | Moves  | Moves (cl) | Distance | No-Loads | Status |
|---|--------|------------|----------|----------|--------|
| X | 228437 | 228437     | 13144    | 36       | ready  |
| Y | 187274 | 187274     | 24738    | 7        | ready  |

Instrument Information Instrument Serial Number: 910009427 Date: 26/Oct/2022 12:21:42 Page 3/6

|   | Moves | Moves (cl) | Distance | No-Loads | Status |
|---|-------|------------|----------|----------|--------|
| B | 78403 | 78403      | 7304     | 2        | ready  |

### Version Information

#### System Modules

|                       | Version    | Description  | Copyright  | Original Filename     | Product Name                          |
|-----------------------|------------|--|--|-----------------------|---------------------------------------|
| SnSFrame.exe          | 8.0.1.0    | Instrument Setup and Service Application   | Copyright © 2017 by Tecan Trading AG                               | SnSFrame.exe          | Setup and Service                     |
| Genesis.dll           | 1.27.1.0   | Device library for GENESIS Instruments   | Copyright © 2017 by Tecan Trading AG                               | Genesis.dll           | Setup and Service                     |
| Panel.dll             | 1.27.1.0   | Base classes for concrete Panel Modules  | Copyright © 2017 by Tecan Trading AG                               | Panel.DLL             | Setup and Service                     |
| OSpp.dll              | 1.25.1.0   | C++ wrapper for WinApp functions   | Copyright © 2017 by Tecan Trading AG                               | OSpp.dll              | Setup and Service                     |
| GUIExtensions.dll     | 1.26.1.0   | GUI Extensions based on MFC controls. Used by Panel base classes and concrete panels | Copyright © 2017 by Tecan Trading AG                               | GUIExtensions.dll     | Setup and Service                     |
| TCSDriver.dll         | 1.12.1.0   | TCSDriver Tecan Communication Server   | Copyright © 2017 by Tecan Trading AG                               | TCSDriver.dll         | Setup and Service                     |
| TLSDriver.dll         | 1.15.1.0   | TLSDriver - Tecan Login Server   | Copyright © 2017 by Tecan Trading AG                               | TLSDriver.dll         | Setup and Service                     |
| ZLIB.dll              | 1.1.3.1    | zlib data compression library  | (C) 1995-1998 Jean-loup Gailly & Mark Adler                        | zlib.dll              | ZLib.DLL                              |
| VPES3270.dll          | 7.0.2.7779 | Virtual Print Engine Standard Edition  | Copyright © 1995 - 2014 IDEAL Software® GmbH. All rights reserved. | -                     | Virtual Print Engine Standard Edition |
| ZaapMotionAdapter.dll | 1.1.0.1    | ZaapMotionAdapter  | Copyright © Tecan Schweiz AG 2013                                  | ZaapMotionAdapter.dll | ZaapMotionAdapter                     |
| ZaapMotionDriver.dll  | 1.1.0.1    | ZaapMotionDriver Release   | Copyright © Tecan Schweiz AG 2013                                  | ZaapMotionDriver.dll  | ZaapMotionDriver                      |

#### Panels

|                          | Version  | Description   | Copyright                            | Original Filename        | Product Name      | Product Version |
|--------------------------|----------|---|--------------------------------------|--------------------------|-------------------|-----------------|
| AirLiHa.dll              | 1.8.1.0  | Setup and QC Test module for AirLiHa                      | Copyright © 2017 by Tecan Trading AG | AirLiHa.dll              | Setup and Service | 8.0             |
| Autoloader.dll           | 1.24.1.0 | Setup and QC Test module for Autoloader                   | Copyright © 2017 by Tecan Trading AG | Autoloader.DLL           | Setup and Service | 8.0             |
| BasicSetup.dll           | 1.27.1.0 | Setup module for basic setups                             | Copyright © 2017 by Tecan Trading AG | BasicSetup.dll           | Setup and Service | 8.0             |
| CGM.dll                  | 1.12.1.0 | Setup and QC Test module for CGM                          | Copyright © 2017 by Tecan Trading AG | CGM.DLL                  | Setup and Service | 8.0             |
| CheckCarrierPosition.dll | 1.18.1.0 | Tool to check carrier positions according to worktable DB | Copyright © 2017 by Tecan Trading AG | CheckCarrierPosition.DLL | Setup and Service | 8.0             |
| CommandTool.dll          | 1.25.1.0 | Tool module for FW Commands                               | Copyright © 2017 by Tecan Trading AG | CommandTool.dll          | Setup and Service | 8.0             |

Instrument Information    Instrument Serial Number: 910009427    Date: 26/Oct/2022 12:21:42    Page 4/6

|                      | Version  | Description   | Copyright                            | Original Filename    | Product Name      | Product Version |
|----------------------|----------|---|--------------------------------------|----------------------|-------------------|-----------------|
| DiTiTest.dll         | 1.20.1.0 | Setup and QC Test module for DiTiTest                 | Copyright © 2017 by Tecan Trading AG | DiTiTest.DLL         | Setup and Service | 8.0             |
| Incubator.dll        | 2.13.1.0 | Setup and QC Test module for Incubator                | Copyright © 2017 by Tecan Trading AG | Incubator.DLL        | Setup and Service | 8.0             |
| Information.dll      | 1.25.1.0 | Tool module for Information                           | Copyright © 2017 by Tecan Trading AG | Information.dll      | Setup and Service | 8.0             |
| IOModule.dll         | 1.23.1.0 | Setup and QC Test module for I/O-Option               | Copyright © 2017 by Tecan Trading AG | iomodule.DLL         | Setup and Service | 8.0             |
| LiHa.dll             | 1.27.1.0 | Setup and QC Test module for LiHa                     | Copyright © 2017 by Tecan Trading AG | LiHa.dll             | Setup and Service | 8.0             |
| LiquidSystem.dll     | 1.20.1.0 | Setup and QC Test module for Liquid System            | Copyright © 2017 by Tecan Trading AG | Liquid System.DLL    | Setup and Service | 8.0             |
| LoadingInterface.dll | 1.23.1.0 | Setup and QC Test module for Loading Interface of EVO | Copyright © 2017 by Tecan Trading AG | LoadingInterface.DLL | Setup and Service | 8.0             |
| MCA.dll              | 1.18.1.0 | Setup and QC Test module for MCA                      | Copyright © 2017 by Tecan Trading AG | MCA.DLL              | Setup and Service | 8.0             |
| MCA384.dll           | 1.12.1.0 | Setup and QC Test module for MCA384                   | Copyright © 2017 by Tecan Trading AG | MCA384.DLL           | Setup and Service | 8.0             |
| MCAWash.dll          | 1.11.1.0 | Setup and QC Test module for MCAWash                  | Copyright © 2017 by Tecan Trading AG | MCAWash.DLL          | Setup and Service | 8.0             |
| MoveTest.dll         | 1.27.1.0 | QC Test Module for RoMa, LiHa and PosID Move Tests    | Copyright © 2017 by Tecan Trading AG | MoveTest.dll         | Setup and Service | 8.0             |
| PMP.dll              | 1.20.1.0 | Setup and QC Test module for PMP                      | Copyright © 2017 by Tecan Trading AG | PMP.DLL              | Setup and Service | 8.0             |
| PnP.dll              | 1.27.1.0 | Setup and QC Test module for PnP                      | Copyright © 2017 by Tecan Trading AG | PnPModule.DLL        | Setup and Service | 8.0             |
| PosID2.dll           | 1.24.1.0 | Setup and QC Test module for PosID2                   | Copyright © 2017 by Tecan Trading AG | PosID2.DLL           | Setup and Service | 8.0             |
| PosID3.dll           | 1.20.1.0 | Setup and QC Test module for PosID3                   | Copyright © 2017 by Tecan Trading AG | PosID3.DLL           | Setup and Service | 8.0             |
| Repositioner.dll     | 1.24.1.0 | Setup and QC Test module for Repositioner             | Copyright © 2017 by Tecan Trading AG | Repositioner.DLL     | Setup and Service | 8.0             |
| Results.dll          | 1.23.1.0 | Setup and QC Test module for Results                  | Copyright © 2017 by Tecan Trading AG | Results.DLL          | Setup and Service | 8.0             |
| RoboticDevices.dll   | 1.20.1.0 | Tool module for robotic devices                       | Copyright © 2017 by Tecan Trading AG | RoboticDevices.DLL   | Setup and Service | 8.0             |
| RoMa.dll             | 1.27.1.0 | Setup and QC Test module for RoMa                     | Copyright © 2017 by Tecan Trading AG | RomaModule.DLL       | Setup and Service | 8.0             |
| Safety.dll           | 1.23.1.0 | Setup and QC Test module for Safety                   | Copyright © 2017 by Tecan Trading AG | Safety.DLL           | Setup and Service | 8.0             |
| SlideInBCR.dll       | 1.7.1.0  | Setup and QC Test module for Slide In Barcode Scanner | Copyright © 2017 by Tecan Trading AG | SlideInBCR.dll       | Setup and Service | 8.0             |

Instrument Information    Instrument Serial Number: 910009427    Date: 26/Oct/2022 12:21:42    Page 5/6

|                  | Version  | Description                                  | Copyright                            | Original Filename | Product Name      | Product Version |
|------------------|----------|--|--------------------------------------|-------------------|-------------------|-----------------|
| SpoMpo.dll       | 1.23.1.0 | Setup and QC Test module for SPO-MPO         | Copyright © 2017 by Tecan Trading AG | SpoMpo.DLL        | Setup and Service | 8.0             |
| Supervisor2.dll  | 1.23.1.0 | Setup and QC Test module for Supervisor2     | Copyright © 2017 by Tecan Trading AG | Supervisor2.DLL   | Setup and Service | 8.0             |
| TeFill.dll       | 1.16.1.0 | Setup and QC Test module for Te-Fill         | Copyright © 2017 by Tecan Trading AG | TeFill.DLL        | Setup and Service | 8.0             |
| TeLink.dll       | 1.24.1.0 | Setup and QC Test module for Shuttle         | Copyright © 2017 by Tecan Trading AG | Shuttle.DLL       | Setup and Service | 8.0             |
| TeMags.dll       | 1.27.1.0 | Setup and QC Test module for Te-MagS         | Copyright © 2017 by Tecan Trading AG | TeMags.dll        | Setup and Service | 8.0             |
| TeMO.dll         | 1.25.1.0 | Setup and QC Test module for Te-MO Base      | Copyright © 2017 by Tecan Trading AG | TeMO.DLL          | Setup and Service | 8.0             |
| TeMOREfill.dll   | 1.25.1.0 | Setup and QC Test module for Te-MO Refill    | Copyright © 2017 by Tecan Trading AG | TeMOREfill.DLL    | Setup and Service | 8.0             |
| TeMoWashUnit.dll | 1.25.1.0 | Setup and QC Test module for Te-MO Wash Unit | Copyright © 2017 by Tecan Trading AG | TeMoWashUnit.DLL  | Setup and Service | 8.0             |
| TeShake.dll      | 1.27.1.0 | Setup and QC Test module for Te-Shake        | Copyright © 2017 by Tecan Trading AG | TeShake.DLL       | Setup and Service | 8.0             |
| TeStack.dll      | 2.17.1.0 | Setup and QC Test module for TeStack         | Copyright © 2017 by Tecan Trading AG | TeStack.DLL       | Setup and Service | 8.0             |
| TeVacs.dll       | 1.25.1.0 | Setup and QC Test module for Te-VacS         | Copyright © 2017 by Tecan Trading AG | TeVacs.dll        | Setup and Service | 8.0             |

Instrument Information    Instrument Serial Number: 910009427    Date: 26/Oct/2022 12:21:42    Page 6/6



## QC Report

### Liquid Handling System

LiquidSystem.dll Version: 1.20.1.0  
 Panel.dll Version: 1.27.1.0  
 Genesis.dll Version: 1.27.1.0  
 GUIExtensions.dll Version: 1.26.1.0  
 OSpp.dll Version: 1.25.1.0  
 Setup and Service Version: 8.0.1.0  
 Computer Name: NBSEST007991.tecan.net

Instrument Type: EVO  
 Instrument Serial Number: 910009427  
 Tools [Type, SN]: None specified  
 Date: 26/Oct/2022 12:40:41

**Test Result:** Passed  
**Tests done:** Not All  
**Test Configuration:** Default

**Operator:** **Date:** **Signature:**

#### Devices

##### LiHa Arm

Serial Number: 910009433  
 Address: C5  
 Firmware Version: V1.72-07/2015  
 Bootware Version: V1.10-04/2007

#### Liquid Channel Configuration

|       | Tip Type               | Pipetting Tubing | Syringe Volume [ul] |
|-------|------------------------|------------------|---------------------|
| Tip 1 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 2 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 3 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 4 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 5 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 6 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 7 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 8 | Disposable Tip Adapter | Standard         | 1000                |

#### Aspiration Tubing Configuration

Tubing type: Standard

##### FaWa

Serial Number: 0  
 Address: C6T30  
 Firmware Version: V3.20-04/2007  
 Bootware Version: V1.00-08/2003

**Worktable:** worktable template EVO

#### FaWa Test: Passed

##### Test Configuration Details

Pump duration before opening the valves[ms]: 1000  
 Duration with open valves[ms]: 3000  
 Pump duration after closing the valves[ms]: 200  
 Tube inner diameter [mm]: 13.0

Liquid Handling System Instrument Serial Number: 910009427 Date: 26/Oct/2022 12:40:41 Page 1/3

# Pass / Fail Criteria

Minimum expected throughput: see detailed results

## Detailed Results

| Tips             | Throughput | Min throughput | Within limit |
|------------------|------------|----------------|--------------|
| Tip 1, 200 EDiti | 2517 ul/s  | 1600 ul/s      | Yes          |
| Tip 2, 200 EDiti | 2535 ul/s  | 1600 ul/s      | Yes          |
| Tip 3, 200 EDiti | 2521 ul/s  | 1600 ul/s      | Yes          |
| Tip 4, 200 EDiti | 2517 ul/s  | 1600 ul/s      | Yes          |
| Tip 5, 200 EDiti | 2380 ul/s  | 1600 ul/s      | Yes          |
| Tip 6, 200 EDiti | 2548 ul/s  | 1600 ul/s      | Yes          |
| Tip 7, 200 EDiti | 2517 ul/s  | 1600 ul/s      | Yes          |
| Tip 8, 200 EDiti | 2521 ul/s  | 1600 ul/s      | Yes          |

## Liquid Level Detection Test: Passed

### Test Configuration Details

|     |  |
|-----|--|
| LLD | Common   |
|     | DiTi Type: 200 EDiti   |
|     | Cycles: 15   |
|     | Clot Error Limit [mm]: 4.0                                   |
|     | Error Limit [mm]: 1.5  |
|     | Tip Deviation Limit [mm]: 2.5                                |
|     | Air Gap [ul]: 30   |
|     | LLD Speed [mm/sec]: 60.0                                     |
|     | Clot LLD Speed [mm/sec]: 40.0                                |
|     | Source Liquid Conductivity: Bad                              |
|     | Prefill LLD Mode: Trough mode                                |
|     | Prefill Aspiration Acceleration [ul/sec <sup>2</sup> ]: 7000 |
|     | Prefill Aspiration Deceleration [ul/sec <sup>2</sup> ]: 7000 |
|     | Prefill Aspiration Speed [ul/sec]: 100                       |
|     | Prefill Dispense Acceleration [ul/sec <sup>2</sup> ]: 15000  |
|     | Prefill Dispense Deceleration [ul/sec <sup>2</sup> ]: 30000  |
|     | Prefill Dispense Speed [ul/sec]: 300                         |
|     | Prefill Submerge [mm]: 2.0                                   |
|     | Retract Speed [mm/sec]: 20.0                                 |
|     | User prompt on error: enabled                                |

### LLD Source Racks

|                        | Name        | FirstWell | WellCount |
|------------------------|-------------|-----------|-----------|
| Trough (Prefill > 5ml) | QCTROUGH.RF | 1         | 1         |
| Strip Rack             | QCTROUGH.RF | 1         | 1         |

### LLD Dest Racks

|                        | Name        | FirstWell | WellCount | Interleaved Wells |
|------------------------|-------------|-----------|-----------|-------------------|
| Trough (Prefill > 5ml) | QCTROUGH.RM | 1         | 1         | 0                 |
| Strip Rack             | QCTUBE1.R1  | 1         | 8         | 0                 |

### LLD Prefill Volume

|                        | Tip1 [ul] | Tip2 [ul] | Tip3 [ul] | Tip4 [ul] | Tip5 [ul] | Tip6 [ul] | Tip7 [ul] | Tip8 [ul] |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Trough (Prefill > 5ml) | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |
| Strip Rack             | 600       | 600       | 600       | 600       | 600       | 600       | 600       | 600       |

### LLD Liquid

|                        | Submerge [mm] | Liquid Conductivity | LLD Mode              |
|------------------------|---------------|---------------------|-----------------------|
| Trough (Prefill > 5ml) | 2.0           | Good                | Trough mode           |
| Strip Rack             | 2.0           | Good                | Odd / even tips twice |

# Pass / Fail Criteria

'z-in-dev' smaller or equal 'Error Limit [mm]': 1.5

'Liquid det err' equals 0

'Clot error' equals 0

How these results are achieved:

For tips that are expected to find liquid (prefill volume > 0 or destination is a trough):

1) 'Liquid det err' is incremented if no liquid is detected.



- 2) 'z-in-dev': max difference of the found levels measured over 'Cycles'.  
3) 'Clot error' is incremented if no exit signal occurs within 'Clot Error Limit'.

For tips that are not expected to find liquid (no prefill and destination is not a trough):

- 1) 'Liquid det err' is incremented if liquid is detected.  
2) 'Clot error' is incremented if an exit signal occurs within 'Clot Error Limit'.

#### Detailed Results

##### Summary

|                | Tip 1 | Tip 2 | Tip 3 | Tip 4 | Tip 5 | Tip 6 | Tip 7 | Tip 8 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| z-in-dev       | 0.2   | 0.2   | 0.4   | 0.1   | 0.1   | 0.3   | 0.5   | 0.2   |
| Liquid det err | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Clot error     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Passed         | yes   | yes   | yes   | yes   | yes   | yes   | yes   | yes   |

##### Trough (Prefill > 5ml)

|                | Tip 1 | Tip 2 | Tip 3 | Tip 4 | Tip 5 | Tip 6 | Tip 7 | Tip 8 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| z-in-min       | 73.1  | 72.9  | 72.9  | 72.9  | 73.0  | 73.0  | 72.9  | 73.2  |
| z-in-max       | 73.3  | 73.1  | 73.0  | 73.0  | 73.1  | 73.3  | 73.4  | 73.4  |
| z-in-dev       | 0.2   | 0.2   | 0.1   | 0.1   | 0.1   | 0.3   | 0.5   | 0.2   |
| z-out-min      | na    | na    | na    | na    | na    | na    | na    | na    |
| z-out-max      | na    | na    | na    | na    | na    | na    | na    | na    |
| z-out-dev      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Liquid det err | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Clot error     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Passed         | yes   | yes   | yes   | yes   | yes   | yes   | yes   | yes   |

##### Strip Rack

|                | Tip 1 | Tip 2 | Tip 3 | Tip 4 | Tip 5 | Tip 6 | Tip 7 | Tip 8 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| z-in-min       | 73.4  | 74.1  | 73.7  | 73.7  | 70.7  | 74.2  | 73.3  | 73.9  |
| z-in-max       | 73.5  | 74.1  | 74.1  | 73.8  | 70.7  | 74.4  | 73.6  | 73.9  |
| z-in-dev       | 0.1   | 0.0   | 0.4   | 0.1   | 0.0   | 0.2   | 0.3   | 0.0   |
| z-out-min      | na    | na    | na    | na    | na    | na    | na    | na    |
| z-out-max      | na    | na    | na    | na    | na    | na    | na    | na    |
| z-out-dev      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Liquid det err | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Clot error     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Passed         | yes   | yes   | yes   | yes   | yes   | yes   | yes   | yes   |

#### Gravimetric Pipetting Precision Test: Not Done

##### Test Configuration Details

##### Pass / Fail Criteria

##### History

##### Detailed Results

#### Colorimetric Pipetting Precision Test: Not Applicable

##### Test Configuration Details

##### Pass / Fail Criteria

##### Detailed Results



## QC Report

### DiTi Test Device Test

DiTiTest.dll Version: 1.20.1.0  
 Panel.dll Version: 1.27.1.0  
 Genesis.dll Version: 1.27.1.0  
 GUIExtensions.dll Version: 1.26.1.0  
 OSpp.dll Version: 1.25.1.0  
 Setup and Service Version: 8.0.1.0  
 Computer Name: NBSEST007991.tecan.net

DiTi Test Serial Number: 910009433  
 Instrument Type: EVO  
 Instrument Serial Number: 910009427  
 Tools [Type, SN]: None specified  
 Date: 26/Oct/2022 12:32:22

**Test Result:** Passed  
**Tests done:** All  
**Test Configuration:** Default  
**Device Default Settings:** na

**Operator:** **Date:** **Signature:**

#### Device

##### Configuration

Firmware Version: V1.72-07/2015  
 Bootware Version: V1.10-04/2007  
 Tip Configuration

|      | Type                   |
|------|------------------------|
| Tip1 | Disposable Tip Adapter |
| Tip2 | Disposable Tip Adapter |
| Tip3 | Disposable Tip Adapter |
| Tip4 | Disposable Tip Adapter |
| Tip5 | Disposable Tip Adapter |
| Tip6 | Disposable Tip Adapter |
| Tip7 | Disposable Tip Adapter |
| Tip8 | Disposable Tip Adapter |

#### Lower DiTi Eject Test: Passed

##### Test Configuration Details

Cycles: 12  
 Tip selection: 1, 2, 3, 4, 5, 6, 7, 8  
 DiTi Type: 200 EDiti

##### Pass / Fail Criteria

Each fetching and dropping of DiTis is visually verified.  
 Number of DiTis not fetched: 0  
 Number of DiTis not mounted: 0  
 Number of DiTis not dropped: 0

##### Detailed Results

Cycles done: 12  
 Number of errors DiTis not fetched: 0  
 Number of errors DiTis not mounted: 0  
 Number of errors DiTis not dropped: 0  
 Operator confirmed that all DiTis have been fetched and dropped correctly.

DiTi Test Device Test Device Serial Number: 910009433 Date: 26/Oct/2022 12:32:22 Page 1/1



## QC Report

### LiHa Device Test

LiHa.dll Version: 1.27.1.0  
Panel.dll Version: 1.27.1.0  
Genesis.dll Version: 1.27.1.0  
GUIExtensions.dll Version: 1.26.1.0  
OSpp.dll Version: 1.25.1.0  
Setup and Service Version: 8.0.1.0  
Computer Name: NBSEST007991.tecan.net

LiHa Serial Number: 910009433  
Instrument Type: EVO  
Instrument Serial Number: 910009427  
Tools [Type, SN]: None specified  
Date: 26/Oct/2022 12:14:43

**Test Result:** Passed  
**Tests done:** All  
**Test Configuration:** Default  
**Device Default Settings:** Default

**Operator:** **Date:** **Signature:**

#### Device

##### Configuration

Address: C5  
Firmware Version: V1.72-07/2015  
Bootware Version: V1.10-04/2007  
Number of Tips: 8  
Spacing: 9.0 - 38.0 mm variable  
LLD Type: Standard ilid

##### Parameters

| Axis | Offset | Displ | Range  | Scale  | Accel | Speed  | Move Speed |
|------|--------|-------|--------|--------|-------|--------|------------|
| X    | 1.0    | -16.0 | 1586.0 | 0.9996 | 160.0 | 1000.0 | 100.0      |
| Y    | 1.0    | -86.9 | 286.6  | 0.9985 | 240.0 | 350.0  | 35.0       |
| Ys   | 1.0    | 9.0   | 38.0   | 0.9996 | 240.0 | 350.0  | 35.0       |
| Z1   | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z2   | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z3   | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z4   | 7.6    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z5   | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z6   | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z7   | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |
| Z8   | 7.7    | -50.0 | 260.0  | 1.0000 | 200.0 | 400.0  | 40.0       |

##### Diagnostics

| Axis | Moves   | Moves (cl) | Distance | No-Loads | Fetches DiTi's | Piercings | Status |
|------|---------|------------|----------|----------|----------------|-----------|--------|
| X    | 1811484 | 1811484    | 530685   | 15       | -              | -         | ready  |
| Y    | 1801653 | 1801653    | 162537   | 50       | -              | -         | ready  |
| Ys   | 1804336 | 1804336    | 163999   | 46       | -              | -         | ready  |
| Z1   | 5968707 | 5968707    | 386332   | 110      | 203899         | 0         | ready  |
| Z2   | 4588169 | 4588169    | 329393   | 81       | 143148         | 0         | ready  |
| Z3   | 4512625 | 4512625    | 324511   | 61       | 136416         | 0         | ready  |
| Z4   | 4478996 | 4478996    | 321680   | 41       | 134839         | 0         | ready  |
| Z5   | 4429285 | 4429285    | 318068   | 51       | 130941         | 0         | ready  |

LiHa Device Test Device Serial Number: 910009433 Date: 26/Oct/2022 12:14:43 Page 1/2

|    | Moves   | Moves (cl) | Distance | No-Loads | Fetches DiT's | Piercings | Status |
|----|---------|------------|----------|----------|---------------|-----------|--------|
| Z6 | 4416471 | 4416471    | 317287   | 46       | 129879        | 0         | ready  |
| Z7 | 4371969 | 4371969    | 313589   | 61       | 123062        | 0         | ready  |
| Z8 | 4349286 | 4349286    | 311841   | 64       | 121225        | 0         | ready  |

#### Te-PS Carriers

Grid

#### Setup Results

**Arm Position Accuracy: Not Applicable**

Test Configuration Details

Pass / Fail Criteria

Detailed Results

Tips and Test

**Te-PS Compliance Test: Not Applicable**

Test Configuration Details

Pass / Fail Criteria

Detailed Results

**Carrier Alignment Test: Not Applicable**

Test Configuration Details

Pass / Fail Criteria

Detailed Results

**Tip Adapter: Passed**

Test Configuration Details

Available Adapters: 8

Participating Adapters: 8

Pass / Fail Criteria

All adapters must report 'open' and 'closed' correctly

Detailed Results

Adapter 1: Passed

Adapter 2: Passed

Adapter 3: Passed

Adapter 4: Passed

Adapter 5: Passed

Adapter 6: Passed

Adapter 7: Passed

Adapter 8: Passed

Test Configuration: Default

**Tip Verify: Not Applicable**

Test Configuration Details

Detailed Results

**Individual-Z Verify: Not Applicable**

Test Configuration Details

Detailed Results



## QC Report

### Safety Device Test

Safety.dll Version: 1.23.1.0  
 Panel.dll Version: 1.27.1.0  
 Genesis.dll Version: 1.27.1.0  
 GUIExtensions.dll Version: 1.26.1.0  
 OSpp.dll Version: 1.25.1.0  
 Setup and Service Version: 8.0.1.0  
 Computer Name: NBSEST007991.tecan.net

Safety Serial Number: 9390023  
 Instrument Type: EVO  
 Instrument Serial Number: 910009427  
 Tools [Type, SN]: None specified  
 Date: 26/Oct/2022 14:53:13

**Test Result:** Passed  
**Tests done:** All  
**Test Configuration:** Default  
**Device Default Settings:** na

---

|           |       |            |
|-----------|-------|------------|
| Operator: | Date: | Signature: |
|-----------|-------|------------|

---

#### Device

##### Configuration

Firmware Version: V1.30-04/2008  
 Bootware Version: V1.10-12/99

##### Available Options

Door Lock 1 (left)  
 Door Lock 2 (right)  
 Alarm Device: standard  
 Pause / Resume Button

#### Door Lock Test: Passed

##### Test Configuration Details

The door lock test is performed once

##### Pass / Fail Criteria

All questions about the door locks are confirmed with OK  
 The sensors recognize the open/locked status correctly

##### Detailed Results

Door Lock 1 (left): Passed  
 Door Lock 2 (right): Passed

#### Pause / Resume Button Test: Passed

##### Test Configuration Details

The Pause / Resume button test is performed once

##### Pass / Fail Criteria

Pause Button interrupts received correctly

##### Detailed Results

Pause / Resume Button: Passed

Safety Device Test    Device Serial Number: 9390023    Date: 26/Oct/2022 14:53:13    Page 1/2

**Alarm Device Test: Passed****Test Configuration Details**

The alarm device test is performed once

**Pass / Fail Criteria**

All questions about the alarm device are confirmed with OK

**Detailed Results**

Alarm Green: Passed

Alarm Red / Acoustic: Passed



## QC Report

### PosID-3 Device Test

PosID3.dll Version: 1.20.1.0  
 Panel.dll Version: 1.27.1.0  
 Genesis.dll Version: 1.27.1.0  
 GUIExtensions.dll Version: 1.26.1.0  
 OSpp.dll Version: 1.25.1.0  
 Setup and Service Version: 8.0.1.0  
 Computer Name: NBSEST007991.tecan.net

PosID-3 Serial Number: 910009438  
 Instrument Type: EVO  
 Instrument Serial Number: 910009427  
 Tools [Type, SN]: None specified  
 Date: 26/Oct/2022 14:52:11

**Test Result:** Passed  
**Tests done:** All  
**Test Configuration:** User Defined  
**Device Default Settings:** Default

**Operator:** **Date:** **Signature:**

#### Device

##### Parameters

|   | Offset | Displ  | Range  | Scale  | Accel | Speed |
|---|--------|--------|--------|--------|-------|-------|
| X | 1.0    | -84.2  | 1663.9 | 1.0001 | 90.0  | 500.0 |
| Y | 1.0    | -318.8 | 5.1    | 1.0000 | 140.0 | 360.0 |
| B | 10.0   | -94.9  | 101.8  | 1.0000 | 140.0 | 200.0 |

##### Diagnostics

Power ups: 3623  
 Minute meter: 1165107  
 FW downloads: 0  
 FW page erased: 193

##### Axes

|   | Moves  | Moves (cl) | Distance | No-Loads | Status |
|---|--------|------------|----------|----------|--------|
| X | 228446 | 228446     | 13145    | 36       | ready  |
| Y | 187290 | 187290     | 24739    | 7        | ready  |
| B | 78412  | 78412      | 7305     | 2        | ready  |

##### Configuration

Firmware Version: V1.21-08/2007  
 Bootware Version: V1.10-04/2007  
 Scanner Serial Number: C08N00237  
 Scanner Firmware Version: CAP000 rel. 1.04.0  
 Scanner Bootware Version: DS1100-Boot-V1.00-01/2005

### Reading Positions Test: Passed

#### Test Configuration Details

Cycles: Read all barcodes on gripper and service rack one time

#### Pass / Fail Criteria

Criteria: All barcodes must be read as expected

#### Detailed Results

Reference Barcode

PosID-3 Device Test Device Serial Number: 910009438 Date: 26/Oct/2022 14:52:11 Page 1/3

|  | expected         | read             | results |
|--|------------------|------------------|---------|
| Gripper, vertical barcode                        | V                | V                | passed  |
| Gripper, horizontal barcode                      | H                | H                | passed  |
| Service Rack, CarrierID1                         | 999/000000       | 999/000000       | passed  |
| Service Rack, CarrierID2                         | 999/000000       | 999/000000       | passed  |
| Connect carrier with y/b alignment vertical      | no error         | -                | passed  |
| Service Rack, vertical barcode                   | 1111111111111119 | 1111111111111119 | passed  |
| Service Rack, horizontal barcode, rear position  | 55               | 55               | passed  |
| Service Rack, horizontal barcode, front position | 55               | 55               | passed  |
| Disconnect carrier with y/b alignment horizontal | no error         | -                | passed  |

### **No Tube Sensor Test: Passed**

#### **Test Configuration Details**

Grid position: 24  
Cycles: Detects each of the three opening of the service rack one time

#### **Pass / Fail Criteria**

Lower opening: 'Tube' expected.  
Upper opening: 'Tube' expected.  
Heigh opening: no 'Tube' expected.

#### **Detailed Results**

Lower opening: passed  
Upper opening: passed  
Heigh opening: passed

**Test Configuration: Default**

### **Barcode Reading Test: Passed**

#### **Test Configuration Details**

Cycles: 5  
Number of carriers: 2  
From grid: 23  
To grid: 28  
Do reference read: yes  
Barcode settings: Default

#### **Pass / Fail Criteria**

Maximum number of barcode mismatch on carrier flag: 0, test will be aborted  
Maximum number of carrier flags not read(0.10%): 0  
Maximum number of barcodes read wrong: 0  
Maximum number of barcodes on racks not read(0.20%): 1  
Maximum number of No Tube sensor errors(0.02%): 0  
Maximum number of y/b alignment failed: 0, cycle will be aborted

#### **Detailed Results**

Cycles done: 5  
Number of carrier flags read in first cycle: 2  
Number of carrier flags not read: 0  
Number of barcodes read wrong: 0  
Number of barcodes not read: 0  
Number of No Tube sensor errors: 0  
Number of y/b alignment failed: 0  
Total number of errors: 0  
ErrorList

#### **ReferenceRead**

##### **Carrier1**

|              |            |
|--------------|------------|
| Grid: 24     |            |
| Barcodes     |            |
|              | Barcode    |
| Carrier flag | 999/000000 |

##### **Carrier2**

Grid: 27

PosID-3 Device Test    Device Serial Number: 910009438    Date: 26/Oct/2022 14:52:11    Page 2/3



| Barcodes     |            |
|--------------|------------|
|              | Barcode    |
| Carrier flag | 033/033532 |
| Rack1        | ***        |
| Rack2        | ***        |
| Rack3        | ***        |

Test Configuration: User Defined



## QC Report

### Te-VacS Device Test

TeVacS.dll Version: 1.25.1.0  
 Panel.dll Version: 1.27.1.0  
 Genesis.dll Version: 1.27.1.0  
 GUIExtensions.dll Version: 1.26.1.0  
 OSpp.dll Version: 1.25.1.0  
 Setup and Service Version: 8.0.1.0  
 Computer Name: NBSEST007991.tecan.net

Te-VacS Serial Number: 7019  
 Instrument Type: EVO  
 Instrument Serial Number: 910009427  
 Tools [Type, SN]: None specified  
 Date: 26/Oct/2022 15:00:54

**Test Result:** Passed  
**Tests done:** All  
**Test Configuration:** Built in  
**Device Default Settings:** na

Operator: Date: Signature:

**Liquid Level Sensor Test:** Passed  
**Pressure Sensor Calibration Test:** Passed  
**Extraction Valve Function Test:** Passed  
**Pump Performance Test:** Passed  
**Ventilation Valve Function Test:** Passed  
**Leakage Test:** Passed

#### Device Settings

Type: Chemical resistant

#### Duty Cycle timing

On Time [ms]: 6  
 Off Time [ms]: 16

#### Duty Cycle usage

Control Valve: off  
 Extraction Valve 1: off  
 Ventilation Valve 1: off  
 Extraction Valve 2: off  
 Ventilation Valve 2: off

#### Test Configuration

External gauge used: yes

Vacuum blocks used: 1

Ambient pressure equalisation timeout [s]: 15

#### Pressure and Timeout

|                          | Pressure [kPa] | Timeout [s] |
|--------------------------|----------------|-------------|
| Maximum pump performance | 70             | 50          |
| Extraction valve         | 45             | 3           |
| Leakage test initial     | 60             | 40          |
| Maximum leakage          | 3              | 60          |
| Ventilation valve        | 12             | 3           |

#### Detailed Results

Te-VacS Device Test Device Serial Number: 7019 Date: 26/Oct/2022 15:00:54 Page 1/2

Ambient Pressure Equalisation Time [s]: 4.313

**Extraction Valve**

|         | Maximum Pump Performance Time [s] | Flowrate Pressure [kPa] |
|---------|-----------------------------------|-------------------------|
| Valve 1 | 10.906                            | 67                      |
| Valve 2 | 10.422                            | 65                      |

**Ventilation Valve**

|         | Leakage Test Initial Time [s] | Leakage Pressure [kPa] | Flowrate Pressure [kPa] |
|---------|-------------------------------|------------------------|-------------------------|
| Valve 1 | 9.688                         | 2                      | 34                      |
| Valve 2 | 9.594                         | 4                      | 32                      |



## QC Report

### Te-Shake Device Test

TeShake.dll Version: 1.27.1.0  
 Panel.dll Version: 1.27.1.0  
 Genesis.dll Version: 1.27.1.0  
 GUIExtensions.dll Version: 1.26.1.0  
 OSpp.dll Version: 1.25.1.0  
 Setup and Service Version: 8.0.1.0  
 Computer Name: NBSEST007991.tecan.net

Te-Shake Serial Number: 7946  
 Instrument Type: EVO  
 Instrument Serial Number: 910009427  
 Tools [Type, SN]: None specified  
 Date: 26/Oct/2022 12:18:27

**Test Result:** Passed  
**Tests done:** Not All  
**Test Configuration:** Default  
**Device Default Settings:** Default

Operator: Date: Signature:

#### Device

##### Configuration

Shaker Type: 1 Microplate  
 Firmware Version: V1.10-07/2001  
 Bootware Version: V1.20-09/99

##### Diagnostics

Power up Counter: 3748  
 Operating Time [minutes]: 1170050  
 Initialization Counter: 12245  
 Movement Counter: 72987  
 Overload Counter: 22

#### Mechanical Burn-In / Validation: Passed

##### Test Configuration Details

Shake Time [sec]: 60  
 Minimum Speed [rpm]: 1200  
 Maximum Speed [rpm]: 1200  
 Interval Time [sec]: 30  
 Interval Step [rpm]: 100

##### Pass / Fail Criteria

Maximum Number of Initialization Errors: 0  
 Maximum Move errors: 0

##### Detailed Results

Move Errors: 0  
 Initialization Errors: 0

Test Configuration: Default

#### Heating Burn-In: Not Done

##### Test Configuration Details

##### Pass / Fail Criteria

Te-Shake Device Test Device Serial Number: 7946 Date: 26/Oct/2022 12:18:27 Page 1/2

## Detailed Results

**Heating Validation with TEMPO110: Not Done**

Optional test to validate the heating plate surface temperature on request of customer (on site)

Test Configuration Details

Pass / Fail Criteria

Detailed Results



## QC Report

### Liquid Handling System

LiquidSystem.dll Version: 1.20.1.0  
 Panel.dll Version: 1.27.1.0  
 Genesis.dll Version: 1.27.1.0  
 GUIExtensions.dll Version: 1.26.1.0  
 OSpp.dll Version: 1.25.1.0  
 Setup and Service Version: 8.0.1.0  
 Computer Name: NBSEST007991.tecan.net

Instrument Type: EVO  
 Instrument Serial Number: 910009427  
 Tools [Type, SN]: None specified  
 Date: 26/Oct/2022 14:48:11

**Test Result:** Passed  
**Tests done:** Not All  
**Test Configuration:** Default

Operator: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_

#### Devices

##### LiHa Arm

Serial Number: 910009433  
 Address: C5  
 Firmware Version: V1.72-07/2015  
 Bootware Version: V1.10-04/2007

#### Liquid Channel Configuration

|       | Tip Type               | Pipetting Tubing | Syringe Volume [ul] |
|-------|------------------------|------------------|---------------------|
| Tip 1 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 2 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 3 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 4 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 5 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 6 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 7 | Disposable Tip Adapter | Standard         | 1000                |
| Tip 8 | Disposable Tip Adapter | Standard         | 1000                |

#### Aspiration Tubing Configuration

Tubing type: Standard

#### FaWa

Serial Number: 0  
 Address: C6T30  
 Firmware Version: V3.20-04/2007  
 Bootware Version: V1.00-08/2003

#### Worktable: worktable template EVO

##### Balance

Balance type: WXSS205DU  
 Serial number: C035930358  
 Calibration date: 2022-11-30  
 Samples [count]: 5  
 Tolerance [mg]: 0.10  
 Weigh Delay [sec]: 0.5

Liquid Handling System Instrument Serial Number: 910009427 Date: 26/Oct/2022 14:48:11 Page 1/4

### FaWa Test: Not Done

Test Configuration Details

Pass / Fail Criteria

Detailed Results

### Liquid Level Detection Test: Not Done

Test Configuration Details

Pass / Fail Criteria

Detailed Results

### Gravimetric Pipetting Precision Test: Passed

Test Configuration Details

Common

|                                 |             |
|---------------------------------|-------------|
| DiTi Type:                      | 200 EDiti   |
| Use next tip for each dispense: | enabled     |
| Liquid type:                    | Tap water   |
| Density [mg/ul]:                | 1.000       |
| Liquid Conductivity:            | Bad         |
| LLD Mode:                       | Trough mode |

Disposable Tip

200 EDiti

10 ul

Test

|             |       |
|-------------|-------|
| Cycles:     | 12    |
| Max CV [%]: | 3.500 |

Aspiration

|                                    |          |
|------------------------------------|----------|
| Aliquotes:                         | 1        |
| Aspiration Delay [msec]:           | 200      |
| Aspiration Retract Speed [mm/sec]: | 20.0     |
| Aspiration Speed [ul/sec]:         | 30       |
| Aspiration Submerge [mm]:          | 1.0      |
| Aspiration Volume [ul]:            | 10.000   |
| Calibration Volume [ul]:           | 1.000    |
| Detect Speed [mm/sec]:             | 60       |
| Low-Volume by Aspiration:          | disabled |

Dispense

|                             |          |
|-----------------------------|----------|
| Break Off Speed [ul/sec]:   | 400      |
| Delay Before Pinch [msec]:  | 500      |
| Dispense Delay [sec]:       | 0.0      |
| Dispense Speed [ul/sec]:    | 600      |
| Dispense Volume [ul]:       | 10.000   |
| Dispense by Dilutor:        | enabled  |
| Dispense on LL:             | disabled |
| Dispense on LL Offset [mm]: | 0.0      |
| Low-Volume Active:          | disabled |

Liquid Structure

|                                    |        |
|------------------------------------|--------|
| Air Gap Aspiration Speed [ul/sec]: | 70     |
| Conditioning Volume [ul]:          | 0.000  |
| Conditioning Volumes count:        | 0      |
| Delay After Conditioning [msec]:   | 0      |
| Excess Volume [ul]:                | 0.000  |
| Leading Air Gap [ul]:              | 10.000 |
| Partition Leading Air Gap [ul]:    | 0.000  |
| Partition Trailing Air Gap [ul]:   | 0.000  |
| Partition Volume [ul]:             | 0.000  |
| System Trailing Air Gap [ul]:      | 20.000 |
| Trailing Air Gap [ul]:             | 5.000  |

Wash

|                      |          |
|----------------------|----------|
| Low-Volume by Wash:  | disabled |
| Wash Speed [ul/sec]: | 1000     |

Wash Volume [ul]: 1000

100 ul

Test

Cycles: 12

Max CV [%]: 0.750

Aspiration

Aliquots: 1

Aspiration Delay [msec]: 200

Aspiration Retract Speed [mm/sec]: 20.0

Aspiration Speed [ul/sec]: 150

Aspiration Submerge [mm]: 2.0

Aspiration Volume [ul]: 100.000

Calibration Volume [ul]: 4.000

Detect Speed [mm/sec]: 60

Low-Volume by Aspiration: disabled

Dispense

Break Off Speed [ul/sec]: 400

Delay Before Pinch [msec]: 500

Dispense Delay [sec]: 0.0

Dispense Speed [ul/sec]: 600

Dispense Volume [ul]: 100.000

Dispense by Dilutor: enabled

Dispense on LL: disabled

Dispense on LL Offset [mm]: 0.0

Low-Volume Active: disabled

Liquid Structure

Air Gap Aspiration Speed [ul/sec]: 70

Conditioning Volume [ul]: 0.000

Conditioning Volumes count: 0

Delay After Conditioning [msec]: 0

Excess Volume [ul]: 0.000

Leading Air Gap [ul]: 5.000

Partition Leading Air Gap [ul]: 0.000

Partition Trailing Air Gap [ul]: 0.000

Partition Volume [ul]: 0.000

System Trailing Air Gap [ul]: 20.000

Trailing Air Gap [ul]: 10.000

Wash

Low-Volume by Wash: disabled

Wash Speed [ul/sec]: 1000

Wash Volume [ul]: 1000

#### Pass / Fail Criteria

CV of each channel and over all CV: less or equal 'Max CV [%]'.  
No '0' dispenses are allowed. Limit for '0' dispenses: 10% of nominal volume.

#### History

|               | Channels               | Start time           | Operator comment |
|---------------|------------------------|----------------------|------------------|
| 1. Validation | 1, 2, 3, 4, 5, 6, 7, 8 | 26/Oct/2022 12:47:51 | First run        |

#### Detailed Results

Disposable Tip / 200 EDiti / 10 ul

|        | Tip 1 | Tip 2 | Tip 3 | Tip 4 | Tip 5 | Tip 6 | Tip 7 | Tip 8 | All |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| Meas 1 | 9.708 | 9.470 | 9.754 | 9.226 | 9.244 | 9.414 | 9.474 | 9.740 | -   |
| Meas 2 | 9.766 | 9.446 | 9.608 | 9.208 | 9.296 | 9.446 | 9.554 | 9.588 | -   |
| Meas 3 | 9.600 | 9.428 | 9.682 | 9.236 | 9.298 | 9.546 | 9.362 | 9.516 | -   |
| Meas 4 | 9.604 | 9.506 | 9.580 | 9.140 | 9.170 | 9.436 | 9.452 | 9.598 | -   |
| Meas 5 | 9.666 | 9.436 | 9.426 | 9.378 | 9.254 | 9.400 | 9.446 | 9.518 | -   |
| Meas 6 | 9.584 | 9.430 | 9.552 | 9.382 | 9.080 | 9.436 | 9.564 | 9.410 | -   |
| Meas 7 | 9.486 | 9.314 | 9.438 | 9.364 | 9.256 | 9.418 | 9.714 | 9.480 | -   |
| Meas 8 | 9.352 | 9.424 | 9.460 | 9.436 | 9.124 | 9.546 | 9.364 | 9.420 | -   |

Liquid Handling System Instrument Serial Number: 910009427 Date: 26/Oct/2022 14:48:11 Page 3/4



|            | Tip 1  | Tip 2  | Tip 3  | Tip 4  | Tip 5  | Tip 6  | Tip 7  | Tip 8  | All    |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Meas 9     | 9.460  | 9.280  | 9.380  | 9.342  | 9.284  | 9.478  | 8.926  | 9.442  | -      |
| Meas 10    | 9.352  | 9.164  | 9.382  | 9.276  | 9.420  | 9.348  | 9.170  | 9.286  | -      |
| Meas 11    | 9.296  | 9.286  | 9.488  | 9.296  | 9.356  | 9.208  | 9.204  | 9.364  | -      |
| Meas 12    | 9.448  | 9.304  | 9.678  | 9.284  | 9.234  | 9.482  | 8.944  | 9.350  | -      |
| Mean [mg]  | 9.527  | 9.374  | 9.536  | 9.297  | 9.251  | 9.430  | 9.348  | 9.476  | 9.405  |
| Mean [ul]  | 9.527  | 9.374  | 9.536  | 9.297  | 9.251  | 9.430  | 9.348  | 9.476  | 9.405  |
| Acc [%]    | -4.732 | -6.260 | -4.643 | -7.027 | -7.487 | -5.702 | -6.522 | -5.240 | -5.951 |
| CV [%]     | 1.585  | 1.083  | 1.320  | 0.926  | 1.016  | 0.957  | 2.607  | 1.326  | 1.745  |
| Max CV [%] | 3.500  | 3.500  | 3.500  | 3.500  | 3.500  | 3.500  | 3.500  | 3.500  | 3.500  |
| Status     | passed | passed | passed | passed | passed | passed | passed | passed | passed |

Disposable Tip / 200 EDiti / 100 ul

|            | Tip 1  | Tip 2  | Tip 3  | Tip 4  | Tip 5  | Tip 6  | Tip 7  | Tip 8  | All    |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Meas 1     | 98.392 | 97.744 | 97.488 | 97.460 | 97.698 | 97.650 | 97.810 | 97.944 | -      |
| Meas 2     | 97.952 | 97.382 | 97.538 | 97.272 | 97.688 | 97.668 | 98.052 | 98.108 | -      |
| Meas 3     | 97.764 | 97.488 | 97.252 | 97.474 | 97.604 | 97.238 | 98.052 | 97.748 | -      |
| Meas 4     | 97.818 | 97.378 | 97.254 | 97.326 | 97.696 | 97.642 | 98.032 | 97.796 | -      |
| Meas 5     | 97.934 | 97.392 | 97.456 | 97.456 | 97.574 | 97.648 | 97.922 | 97.836 | -      |
| Meas 6     | 98.048 | 97.272 | 97.254 | 97.418 | 97.468 | 97.614 | 97.648 | 97.776 | -      |
| Meas 7     | 98.086 | 97.808 | 97.490 | 97.508 | 97.530 | 97.654 | 97.736 | 97.952 | -      |
| Meas 8     | 97.966 | 97.342 | 97.166 | 97.546 | 97.410 | 97.556 | 97.068 | 98.334 | -      |
| Meas 9     | 97.778 | 97.558 | 97.606 | 97.494 | 97.530 | 97.362 | 97.756 | 97.692 | -      |
| Meas 10    | 97.754 | 97.656 | 97.762 | 97.346 | 97.730 | 97.460 | 97.814 | 98.026 | -      |
| Meas 11    | 97.772 | 97.576 | 97.460 | 97.418 | 97.674 | 97.352 | 97.674 | 97.996 | -      |
| Meas 12    | 97.486 | 97.418 | 97.158 | 97.526 | 97.456 | 97.608 | 97.816 | 97.764 | -      |
| Mean [mg]  | 97.896 | 97.501 | 97.407 | 97.437 | 97.588 | 97.538 | 97.782 | 97.914 | 97.633 |
| Mean [ul]  | 97.896 | 97.501 | 97.407 | 97.437 | 97.588 | 97.538 | 97.782 | 97.914 | 97.633 |
| Acc [%]    | -2.104 | -2.499 | -2.593 | -2.563 | -2.412 | -2.462 | -2.218 | -2.086 | -2.367 |
| CV [%]     | 0.230  | 0.173  | 0.194  | 0.087  | 0.112  | 0.151  | 0.271  | 0.188  | 0.264  |
| Max CV [%] | 0.750  | 0.750  | 0.750  | 0.750  | 0.750  | 0.750  | 0.750  | 0.750  | 0.750  |
| Status     | passed | passed | passed | passed | passed | passed | passed | passed | passed |

### Colorimetric Pipetting Precision Test: Not Applicable

Test Configuration Details

Pass / Fail Criteria

Detailed Results

Balance, C146996518, 20211130.pdf

Kalibreringscertifikat ID  
dk0032-060-113021-ACC

**METTLER TOLEDO**

Mettler Toledo A/S

Mettler-Toledo A/S

Naverland 8

DK-2600 Glostrup

Service.dk@mt.com

## ACC Kalibreringscertifikat

Accuracy Calibration Certificate

### Kunde

|             |                 |                |              |
|-------------|-----------------|----------------|--------------|
| Firma:      | Tecan Nordic AB |                |              |
| Adresse:    | Himmelevvej 29  |                |              |
| By:         | Roskilde        | Kontaktperson: | Casper Olsen |
| Postnummer: | 4000            | Ordrenummer:   | N/A          |

### Vejeudstyr

|              |                |                       |            |
|--------------|----------------|-----------------------|------------|
| Fabrikat:    | Mettler Toledo | Udstyrstype:          | Vægt       |
| Model:       | WXS205SDU      | ID nummer:            | N/A        |
| Serienummer: | C146996518     | Terminal model:       | SWT        |
| Bygning:     | N/A            | Terminal serienummer: | C035930358 |
| Etage:       | N/A            | Terminal TAG No.:     | N/A        |
| Rum :        | N/A            | Aftale nr.:           | 81720      |

| Område | Max. kapacitet | Deling (d) |
|--------|----------------|------------|
| 1      | 111 g          | 0,00001 g  |
| 2      | 220 g          | 0,0001 g   |

### Procedure

Retningslinier for kalibrering: EURAMET cg-18 v. 4.0 (11/2015)  
METTLER TOLEDO arbejdsinstruktion: 30260953

Dette kalibreringscertifikat indeholder målinger fra kalibrering efter service.

Vægtens følsomhed blev justeret før kalibreringen med et eksternt lod. As Left 21315

I overensstemmelse med EURAMET cg-18 (11/2015) blev målepunkterne udvalgt for at afspejle den specifikke brug af vægten eller for at imødekomme specifikke kalibreringsbetingelser.

|                                     |            |                  |   |
|-------------------------------------|------------|------------------|---|
| Dato for kalibrering før service:   | N/A        | Servicetekniker: |  |
| Dato for kalibrering efter service: | 30-11-2021 |                  |   |
| Udstedelsesdato:                    | 30-11-2021 |                  | Casper Hansen   |
| Næste kalibreringsdato:             | N/A        |                  |   |

Softwareversion: 1.23.0.229

Rapportversion: 2.16.5

Formular nummer: ACC

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Page 1 af 4

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**METTLER TOLEDO** Service

## Måleresultater

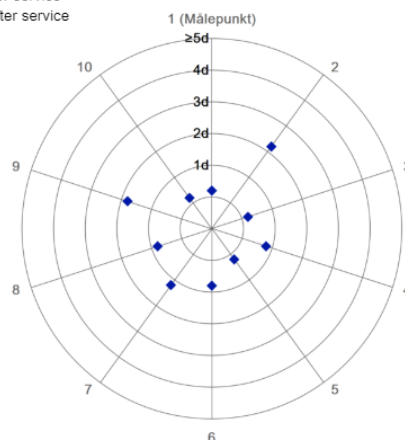
### Repeterbarhed

Anvendt lod: 10 g

|    | Før service | Efter service |
|----|-------------|---------------|
| 1  | N/A         | 9,99993 g     |
| 2  | N/A         | 9,99991 g     |
| 3  | N/A         | 9,99993 g     |
| 4  | N/A         | 9,99994 g     |
| 5  | N/A         | 9,99993 g     |
| 6  | N/A         | 9,99994 g     |
| 7  | N/A         | 9,99992 g     |
| 8  | N/A         | 9,99994 g     |
| 9  | N/A         | 9,99995 g     |
| 10 | N/A         | 9,99993 g     |

|                   |     |            |
|-------------------|-----|------------|
| Standardafvigelse | N/A | 0,000011 g |
|-------------------|-----|------------|

○ Før service  
◆ Efter service



"d" i grafen repræsenterer læsbarheden af det område/interval, hvor testen blev udført.

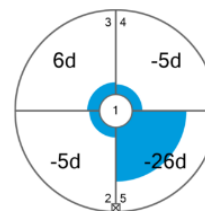
Resultaterne af denne graf er baseret på de absolutte værdier af forskellene fra middelværdien.

### Excentricitet

Anvendt lod: 100 g

| Position | Før service | Efter service |
|----------|-------------|---------------|
| 1        | N/A         | 100,00009 g   |
| 2        | N/A         | 100,00004 g   |
| 3        | N/A         | 100,00015 g   |
| 4        | N/A         | 100,00004 g   |
| 5        | N/A         | 99,99983 g    |

|                |     |           |
|----------------|-----|-----------|
| Max. Afvigelse | N/A | 0,00026 g |
|----------------|-----|-----------|



Efter service

"d" i grafen repræsenterer læsbarheden af det område/interval, hvor testen blev udført.

### Fejlvisning

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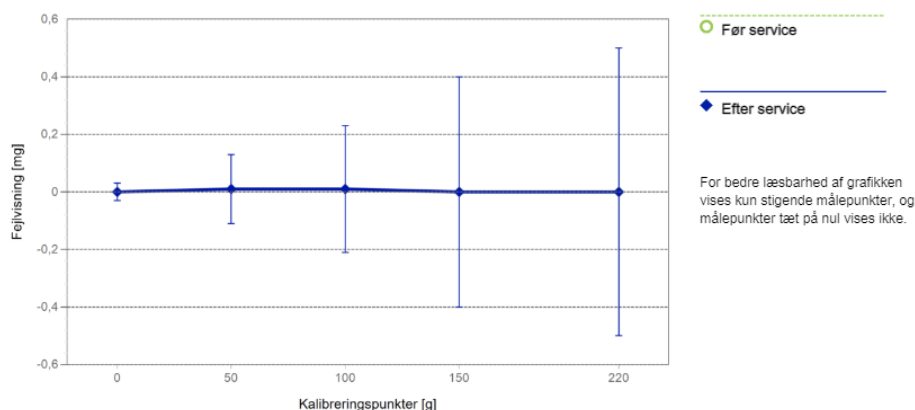
Page 2 af 4

Kalibreringscertifikat ID  
dk0032-060-113021-ACC

**METTLER TOLEDO** Service

Efter service

|   | Referenceværdi | Visning     | Fejlvinsning | Expanderet usikkerhed | k |
|---|----------------|-------------|--------------|-----------------------|---|
| 1 | 0,00000 g      | 0,00000 g   | 0,00000 g    | 0,03 mg               | 2 |
| 2 | 0,01000 g      | 0,00999 g   | -0,00001 g   | 0,03 mg               | 2 |
| 3 | 0,10001 g      | 0,10000 g   | -0,00001 g   | 0,03 mg               | 2 |
| 4 | 1,00000 g      | 1,00000 g   | 0,00000 g    | 0,04 mg               | 2 |
| 5 | 9,99997 g      | 9,99996 g   | -0,00002 g   | 0,07 mg               | 2 |
| 6 | 50,00000 g     | 50,00001 g  | 0,00001 g    | 0,12 mg               | 2 |
| 7 | 99,99999 g     | 100,00000 g | 0,00001 g    | 0,22 mg               | 2 |
| 8 | 150,0000 g     | 150,0000 g  | 0,0000 g     | 0,4 mg                | 2 |
| 9 | 220,0001 g     | 220,0001 g  | 0,0000 g     | 0,5 mg                | 2 |



Usikkerheden er angivet som den ekspanderede usikkerhed ved kalibrering og fremkommer ved at multiplicere den kombinerede standardusikkerhed med dækningsfaktoren  $k$  - som kan være større end 2 ifølge EURAMET og-18. Værdien af det målte ligger indenfor det tildelte område af værdier med en sandsynlighed på 95%. Brugeren er ansvarlig for at opretholde miljøforholdene og indstillingerne for vejinstrumentet som da det blev kalibreret.

### Vægtens måleusikkerhed i brug

Angives den expanderede usikkerhed med  $k = 2$  i brug. Formlen skal bruges til estimering af usikkerheder under hensyntagen til fejlvinsningen. Værdien  $R$  repræsenterer nettobelastningen i den af udstyret anvendte måleenhed.

Den anvendte temperaturkoefficient i forbindelse med udregning af måleusikkerheden:  $1,5 \cdot 10^{-6} / K$

Det anvendte temperaturområde i forbindelse med udregning af måleusikkerheden:  $4 K$

#### Linearisering af usikkerhedsberegningen

|   | Område    |       | Før service | Efter service   |
|---|-----------|-------|-------------|---|
|   | d         | Max   |             |   |
| 1 | 0,00001 g | 111 g | N/A         | $U_1 = 0,024 \text{ mg} + 0,00568 \text{ mg/g} \cdot R$ |
| 2 | 0,0001 g  | 220 g | N/A         | $U_2 = 0,06 \text{ mg} + 0,00562 \text{ mg/g} \cdot R$  |

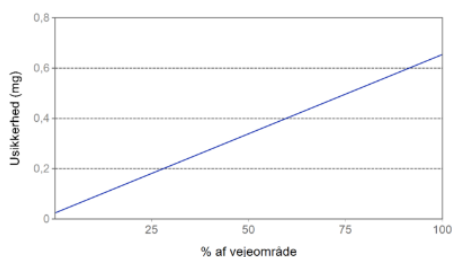
For at optimere stabiliteten af lineariseringen tages der foruden beregningen af den lineære ligning ud over nulbelastningen kun stigende målepunkter med en testbelastning på 5% af måleområdet eller større.

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dk0032-060-113021-ACC

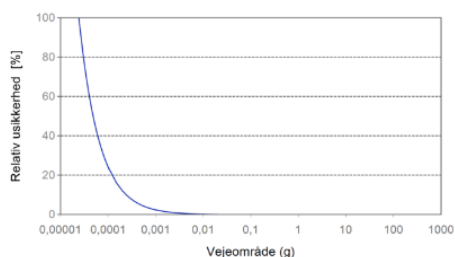
**METTLER TOLEDO** Service

Absolut og relativ måling Usikkerhed ved brug for forskellige netindikationer (Eksempler)

| Nettovisning | Før service |     | Efter service |          |
|--------------|-------------|-----|---------------|----------|
| 0,00220 g    | N/A         | N/A | 0,024 mg      | 1,1%     |
| 0,02200 g    | N/A         | N/A | 0,024 mg      | 0,11%    |
| 0,22000 g    | N/A         | N/A | 0,025 mg      | 0,011%   |
| 2,20000 g    | N/A         | N/A | 0,036 mg      | 0,0017%  |
| 220,0000 g   | N/A         | N/A | 1,3 mg        | 0,00059% |



Før service



Efter service

Vejeområdet som er udtrykt i måleusikkerhedsgrafen refererer til det første interval/område på vægten.

## Testudstyr

Lodder anvendt til metrologiske test er sporbare til nationale og internationale standarder. Lodderne er kalibrerede af et akkrediteret laboratorium.

Lodsæt 1: OIML E2

Lodsæt nummer: 21315 Udstedelsesdato: 02-06-2021  
Certifikatnummer: 173225 Kalibrerings forfaldsdato: 02-06-2022

## Bemærkninger

Dette er en indkalibrering fordi vejeenheden er skiftet.

Kalibreringen er udført med vejehus på vejesten.

Dette dokument er udstedt med henblik på at registrere færdiggørelsen af det arbejde, som METTLER TOLEDO har udført på den aktuelle enhed i overensstemmelse med aftalte standarder. Det garanterer ikke den pågældende enheds fortsatte ydeevne. Alle registrerede målinger er baseret på den pågældende enheds ydeevne på et givent tidspunkt som konstateret af METTLER TOLEDO ved test af enheden, og med mindre andet udtrykkeligt er angivet, er målingerne ikke udtryk for en vurdering af egnetheden af eventuelle procedurer udviklet af kunden til afprøvning af enheden. Dette dokument er ikke udtryk for en garanti, hverken underforstået eller udtrykkelig. METTLER TOLEDO fraskriver sig udtrykkeligt ethvert ansvar som følge af brugen af oplysningerne i dette dokument til noget andet formål end som angivet heri.

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Page 4 af 4

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# GWP® Certifikat



Før service

N/A

Efter service



Vægten overholder procestolerancerne.

Test udført: ☐ Før service ☒ Efter service

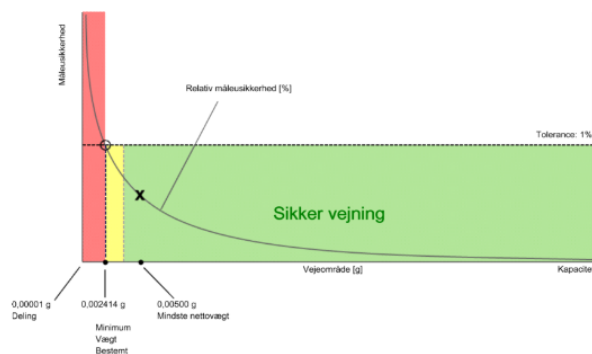
## Proceskrav

Tolerance: 1 %

Mindste nettovægt: 0,00500 g

Sikkerhedsfaktor: 2

Det sikre vejnområde



Eftersom værdierne i grafen repræsenterer de aktuelle kalibreringsresultater, er målesikkerhedskurverne blot en visuel præsentation. Denne graf viser test efter service med mindre der kun blev udført test før service.

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Page 1 af 4

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**METTLER TOLEDO** Service

## Minimumsvægt

Efter service/As Left minimumsvægtstabel

Område 1

| Minimumsvægt for forskellige vejtolerancer og sikkerhedsfaktorer |                  |            |            |            |            |
|--|------------------|------------|------------|------------|------------|
| Tolerance  | Sikkerhedsfaktor |            |            |            |            |
|  | 1                | 2          | 3          | 5          | 10         |
| 0,1%   | 0,024267 g       | 0,048813 g | 0,073642 g | 0,124172 g | 0,255821 g |
| 0,2%   | 0,012099 g       | 0,024267 g | 0,036505 g | 0,061192 g | 0,124172 g |
| 0,5%   | 0,004831 g       | 0,009674 g | 0,014527 g | 0,024267 g | 0,048813 g |
| 1%   | 0,002414 g       | 0,004831 g | 0,007251 g | 0,012099 g | 0,024267 g |
| 2%   | 0,001207 g       | 0,002414 g | 0,003622 g | 0,006041 g | 0,012099 g |
| 5%   | 0,000483 g       | 0,000965 g | 0,001448 g | 0,002414 g | 0,004831 g |

Tabellen over minimumsvægt gælder det lave område på vægten.



OK: Den fundne minimumsvægt opfylder kravene til mindste nettovægt.

På disse netto minimumsvægtværdier er usikkerheden på målingen lig med eller mindre end 1/1 (ingen sikkerhedsfaktor), 1/2, 1/3, 1/5 eller 1/10 af den krævede tolerance. Værdierne er beregnet med  $k = 2$  og er baseret på den lineære formel for usikkerheden på målingen af vægten i brug.

Sikkerhedsfaktoren for As Found er altid 1. Dette indebærer ingen sikkerhedsfaktor. Som Fundet test ser man instrumentets opførsel fra fortiden, indtil testen opstod. For fortiden er det nødvendigt at vide, at tolerancen var opfyldt, men ikke sikkerhedsfaktoren. Sikkerhedsfaktoren er et proaktivt mål at anvende til fremtidige målinger.

Noter om mindste vægtværdier i ovenstående tabel:

1. Hvis "N/A" vises ovenfor, kan ingen passende værdi beregnes.
2. METTLER TOLEDO er ikke ansvarlig for definitionen af proceskravene.

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## Måleresultater

### Opsummering af resultat

|               | Repeterbarhed | Excentricitet | Fejlvisning |
|---------------|---------------|---------------|-------------|
| Efter service | ✓             | ✓             | ✓           |

✓ = OK

✗ = Ikke ok

⚠ = Sikkerhedsfaktor ikke opfyldt

### Repeterbarhed

Anvendt lod: 10 g

| Tolerance | Kontrolgrænse | Før service   |          | Efter service |          |
|-----------|---------------|---------------|----------|---------------|----------|
|           |               | Std.afvigelse | Resultat | Std.afvigelse | Resultat |
| 0,1%      | N/A           | N/A           | N/A      | 0,000011 g*   | N/A      |
| 0,2%      | 0,000005 g    |               | N/A      |               | ✗        |
| 0,5%      | 0,000013 g    |               | N/A      |               | ⚠        |
| 1%        | 0,000025 g    |               | N/A      |               | ✓        |
| 2%        | 0,000050 g    |               | N/A      |               | ✓        |
| 5%        | 0,000125 g    |               | N/A      |               | ✓        |

\*Den udregnede standardafvigelse er lavere end afrundingsfejlen på vægten. Derfor bruges 0,41\*d reglen i forbindelse med repeterbarhedstesten.

Tolerancerne er opfyldt hvis standardafvigelsen er mindre end eller lig med den tilsvarende kontrolgrænse.

### Excentricitet

Anvendt lod: 100 g

| Tolerance | Kontrolgrænse | Før service |          | Efter service |          |
|-----------|---------------|-------------|----------|---------------|----------|
|           |               | Afvigelse   | Resultat | Afvigelse     | Resultat |
| 0,1%      | 0,05000 g     | N/A         | N/A      | 0,00026 g     | ✓        |
| 0,2%      | 0,10000 g     |             | N/A      |               | ✓        |
| 0,5%      | 0,25000 g     |             | N/A      |               | ✓        |
| 1%        | 0,50000 g     |             | N/A      |               | ✓        |
| 2%        | 1,00000 g     |             | N/A      |               | ✓        |
| 5%        | 2,50000 g     |             | N/A      |               | ✓        |

Tolerancen er opfyldt hvis afvigelsen er mindre end eller lig med den tilsvarende kontrolgrænse.

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Page 3 af 4



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## Fejlvissning

Efter service

| Referenceværdi | Fejl      | Kontrolgrænser for forskellige tolerancer |           |           |           |           |           |
|----------------|-----------|---|-----------|-----------|-----------|-----------|-----------|
|                |           | 0,1%                                      | 0,2%      | 0,5%      | 1%        | 2%        | 5%        |
| 0,00000 g      | 0,00000 g | N/A                                       | N/A       | N/A       | N/A       | N/A       | N/A       |
| 50,00000 g     | 0,00001 g | 0,02500 g                                 | 0,05000 g | 0,12500 g | 0,25000 g | 0,50000 g | 1,25000 g |
| 99,99999 g     | 0,00001 g | 0,05000 g                                 | 0,10000 g | 0,25000 g | 0,50000 g | 1,00000 g | 2,50000 g |
| 150,0000 g     | 0,0000 g  | 0,0750 g                                  | 0,1500 g  | 0,3750 g  | 0,7500 g  | 1,5000 g  | 3,7500 g  |
| 220,0001 g     | 0,0000 g  | 0,1100 g                                  | 0,2200 g  | 0,5500 g  | 1,1000 g  | 2,2000 g  | 5,5000 g  |
| Resultat       |           | ✓   | ✓         | ✓         | ✓         | ✓         | ✓         |

Tolerancen er opfyldt hvis fejlen (visningsfejlen) for hvert målepunkt er mindre end eller lig med den tilhørende kontrolgrænse for denne specifikke tolerance. Resultater på eller tæt på 0 kan ikke vurderes.

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Page 4 af 4



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