**Temperature & RH Mapping Report**

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| **Stability Chamber** | | |
|  | | |
| **Report No.** | **:** | VVS/131223/1205 |
| **Temperature & Rh Mapping Start Date** | **:** | 13/12/2023 |
| **Temperature & Rh Mapping Next Due Date** | **:** | 12/12/2024 |
| **Document Type** | **:** | Original |
|  | | |
| **Customer** | **:** | **M/s XYZ Ltd.** |
|  | | |
| **Executor** | **:** | **Vision Validation Solutions**  A/01 Deepti Naval| Sant Namdev Path|  Dombivli (East) |Dist – Thane 421201  Maharashtra | India  Tel : +91 9820275242 / +91 9819595893  Email : visionvalidation@rediffmail.com |

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**Introduction:**

Temperature & RH mappingactivity has been performed for Stability Chamber ID. No. GPQ/44 of M/s XYZ Ltd. plant at AAAAA was carried out by M/s Vision Validation Solutions, on the basis of the protocol prepared by M/s XYZ Ltd., as per the mutual contractual agreement between M/s Vision Validation Solutions and M/s XYZ Ltd. The observations and summary of observation was submitted to M/s XYZ Ltd.

**Runs:**

Temperature & RH mapping ({{Number of times its running}} Minutes).

**Purpose:**

To verify the equipment is working as per acceptance criteria defined by the authorities of M/s XYZ Ltd. based on the data sheet as validation document and refer to their protocols for the validation of the said equipment.

Comments / Justifications for the deviation in acceptance criteria defined by M/s XYZ Ltd.

### Revalidation:

As per user.

### Responsibility:

This report has been developed by M/s Vision Validation Solutions.

# A joint responsibility of M/s Vision Validation Solutions and M/s XYZ Ltd.

The validation responsibilities of M/s Vision Validation Solutions include:

* 1. Writing and implementing this study.
  2. Assembling the testing data into final report form for M/s XYZ Ltd.
  3. Coordinating the validation study with the appropriate individuals and department.
  4. Verifying the validation test requirements is completed.

**References:**

Refer to qualification documents / validation protocols of users.

**Meaning of Signature:**

**Prepared by** : The person preparing the documents shall have sufficient technical knowledge regarding the regulatory requirements of the documentation and a sound background of equipment.

**Checked by** : Will have sufficient technical capability to critically assess the content and accuracy of the document. The checker will certify that the document is devoid of any mistakes.

**Definitions and Acronyms:**

**Temperature & Rh Mapping :** Documented evidence that provides a high degree of assurance that a specific process will consistently produce a product meeting its predetermined specifications and quality attributes.

**Acceptance Criteria :** Control System Qualification shall be performed as per the approved protocol and all corresponding data shall comply with the specified requirements. All test equipment used during the qualification shall be calibrated and certified using standards traceable to the national standard or an equivalent standard. Any amendment(s) or deviation(s) shall be adequately resolved and approved by the concerned.

**Temperature & RH Mapping Protocol :** A written plan stating how validation will be conducted, including test parameters, product characteristics, production equipment, and decision points on what constitutes acceptable test results.

**Worst case :** A set of conditions encompassing upper and lower processing limits and circumstances, including those within standard operating procedures, which pose the greatest chance of process or product failure when compared to ideal conditions. Such conditions do not necessarily induce product or process failure.

**Process: Performance Qualification:** The purpose of performance qualification is to provide rigorous testing to demonstrate the effectiveness and reproducibility of the process. In entering the performance qualification phase of validation, it is understood that the process specifications have been established and essentially proven acceptable through laboratory or other trial methods and that the equipment has been judged acceptable on the basis of suitable installation studies.

**Temperature & Rh Mapping Methodology:**

Key process variables should be monitored and documented. Analysis of the data collected from monitoring will establish the variability of process parameters for individual runs and will establish whether or not the equipment and process controls are adequate to assure that product specifications are met.

**Process:** Data will be collected on the data logger and dumped on the PC. To generate the report.

**Source:** 08 data logger (Our technician which will follow the methodology Protocols recommended by you) will execute the Protocols and prepare written reports for each. The final reports shall present the summary and result of testing, raw data, data analysis and graphical representations as applicable.

**Temperature & RH Mapping Report:**

* **Observation for run:** Parameter, acceptance criteria as per protocol observation during hold period, compliance as per protocol, remark/ justification.
* **Acceptance criteria**: Low limit and extreme limit, it had been defined by party based on their product and load.
* **Minimum temperature & RH** : During hold period (from data sheet report).
* **Maximum temperature & RH**: During hold period (from data sheet report).
* **Start time**: Control probe reach set temperature (from data sheet report).
* **End time**: Control probe down below set temperature (from data sheet report) .
* **Set time**: Process time, defined by user depend upon there product.
* **Cycle start & Cycle end**: Heatup to cooling.
* **Results / Conclusion**: Compliance for equipment.
* **Temperature mapping** instrument: Make, model number, accuracy, range, number of channel, input type, and record of calibration certificate and details of all inputs.
* **Equipment details**: Make, model number, equipment tag/ID. Number, control setting, load description.
* **Run details**: Sensor Locations, Graph Time Vs Temperature & RH, Data Sheet, Average Bar Graph, Differential from Average Graph And Differential From Average Sheet.

**Summary Observation For Run No. 01**

**Temperature & RH Mapping**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Channel No.** | **Parameter** | **Acceptance criteria** | **Residence time (mins.)** | **Start**  **date** | **Start time** | **End**  **date** | **End time** | **Temperature & RH** | | **Remark** |
| **Minimum** | **Maximum** |
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| **average observation** | | | | | | | | | | | | | | | | |
| **Channel No.** | **CH-01** | **CH-02** | **CH-03** | **CH-04** | **CH-05** | **CH-06** | **CH-07** | **CH-08** | **CH-09** | **CH-10** | **CH-11** | **CH-12** | **CH-13** | **CH-14** | **CH-15** | **CH-16** |
| **Unit** | °C | % | °C | % | °C | % | °C | % | °C | % | °C | % | °C | % | °C | % |
| **Average Temperature & RH** | 25.1 | 60.3 | 25.2 | 60.4 | 25.0 | 60.6 | 25.0 | 58.8 | 25.0 | 57.6 | 25.0 | 60.8 | 24.9 | 61.2 | 25.0 | 58.2 |

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| ­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­**Data Observation** | | | **Remark/Justification** |
| **Temperature** | **Minimum** | 24.8 ˚C | **(CH-07,09,11,13 & 15)** |
| **Maximum** | 25.5 ˚C | **(CH-03)** |
| **rh** | **Minimum** | 55.4 % | **(CH-08)** |
| **Maximum** | 63.9 % | **(CH-04)** |
| **Average Temperature** | **Minimum** | 24.9 ˚C | **(CH-13)** |
| **Maximum** | 25.2 ˚C | **(CH-03)** |
| **Average Rh** | **Minimum** | 57.6 % | **(CH-10)** |
| **Maximum** | 61.2 % | **(CH-14)** |
| **Cold Spot at Channel No.** | | | **13** |
| **Hot Spot at Channel No.** | | | **03** |
| **Note: Above Conclusion calculated from average observation.** | | | |

# Results / Conclusion:

Based on the above observation, it indicates that the acceptance criteria defined by the M/s XYZ Ltd. for Stability Chamber is complying to all the considerations defined in their protocols.

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| Certifying Authority |  | Approving Authority | |
|  |  | |
| For M/s Vision Validation Solutions | M/s XYZ Ltd. | |
| Name: | Name: | |
| Date: | Designation: | |
|  | Date: | |
| **Temperature & RH Mapping Instrument Details** | | |

|  |  |
| --- | --- |
| **Nomenclature** | Datalogger |
| **Instrument Make** | Tzone |
| **Model No.** | TempU 03 |
| **Range** | -30.0 to 60.0 °C |
| 0.0 to 100.0 % RH |
| **Calibrated Range** | -20.0 °C to 50.0 °C |
| 15.0 % to 95.0 % |
| **Accuracy** | ± 0.5 °C, ± 3 % RH |
| **Number of Data logger Used** | 08 Nos. |
|  | |

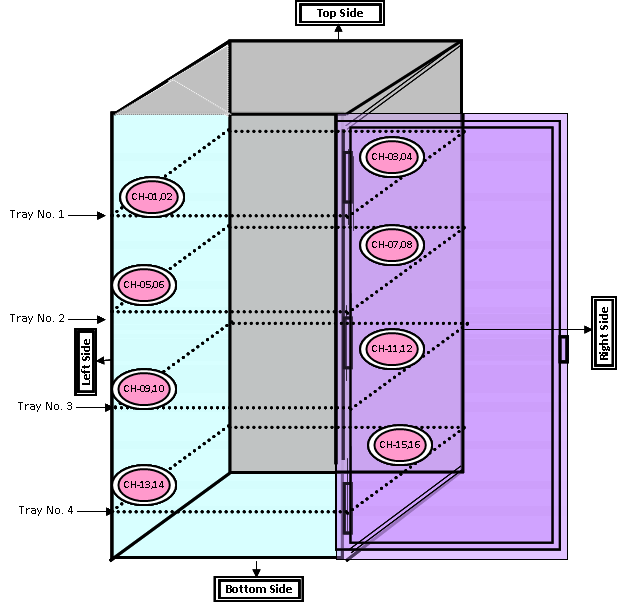
| **Channel No.** | **Data Logger Id. No.** | **Calibration Certificate No.** | **Calibration Date** | **Next Calibration Date** |
| --- | --- | --- | --- | --- |
| **CH-01** | VVS/DL/TR0065 | MCS/23000001657 | 12/09/2023 | 11/09/2024 |
| **CH-02** |
| **CH-03** | VVS/DL/TR0066 | MCS/23000001658 |
| **CH-04** |
| **CH-05** | VVS/DL/TR0067 | MCS/23000001659 |
| **CH-06** |
| **CH-07** | VVS/DL/TR0068 | MCS/23000001660 |
| **CH-08** |
| **CH-09** | VVS/DL/TR0069 | MCS/23000001661 |
| **CH-10** |
| **CH-11** | VVS/DL/TR0070 | MCS/23000001662 |
| **CH-12** |
| **CH-13** | VVS/DL/TR0072 | MCS/23000001663 |
| **CH-14** |
| **CH-15** | VVS/DL/TR0073 | MCS/23000001664 |
| **CH-16** |

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| **Equipment Details** |

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| **Manufacturer** | Sankalp Technical Services And Lab | |
| **Model No.** | N/Av. | |
| **Serial No.** | N/Av. | |
| **Id. No.** | GPQ/44 | |
| **Location** | Stability Room | |
| **Department** | QC | |
| **Control Setting** | Set | Temperature : 25.0 °C (23.0 °C TO 27.0 °C ) |
| RH : 60.0 % (55.0 % TO 65.0 %) |
| **Runs Description** | Temperature & RH Mapping | |

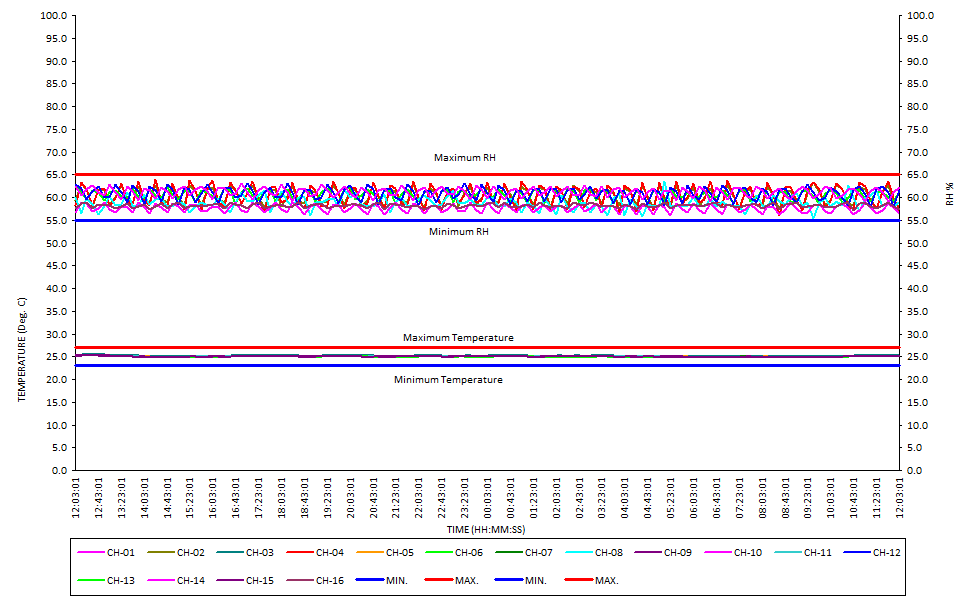
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| **Sr. No.** | **Runs Description** | **Load Description** | **Run No.** |
|  | Temperature & RH Mapping | Loaded Chamber | 01 |

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| **Run No.: 01** | **Sensor Locations** | **Temperature & Rh Mapping** |

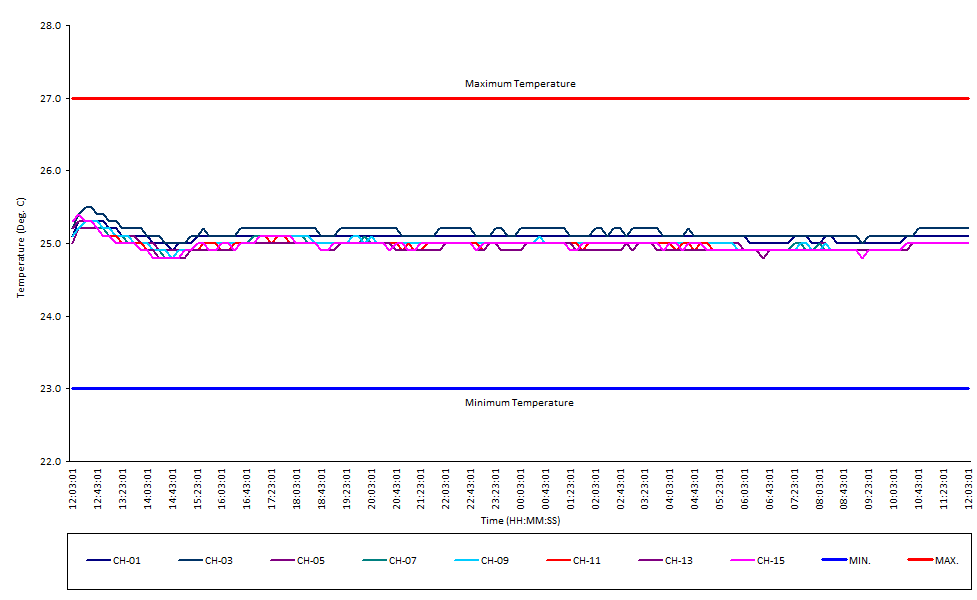


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| **Cold Spot at Channel No.** | **:** | **13** |
| **Hot Spot at Channel No.** | **:** | **03** |

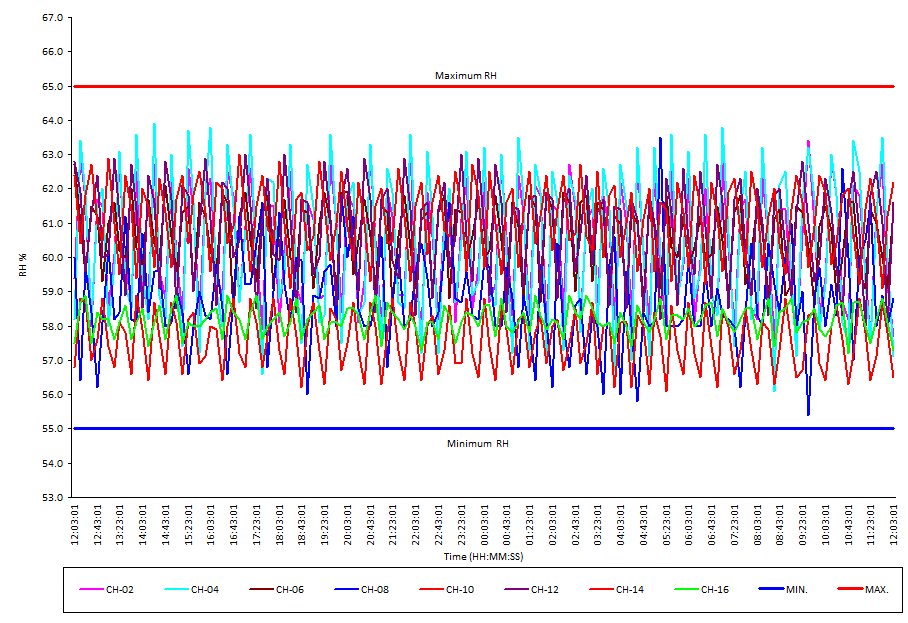
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| **Run No.: 01** | **Graph Time Vs Temperature & RH** | **Temperature & Rh Mapping** |



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| **Run No.: 01** | **Graph Time Vs Temperature - I** | **Temperature & Rh Mapping** |



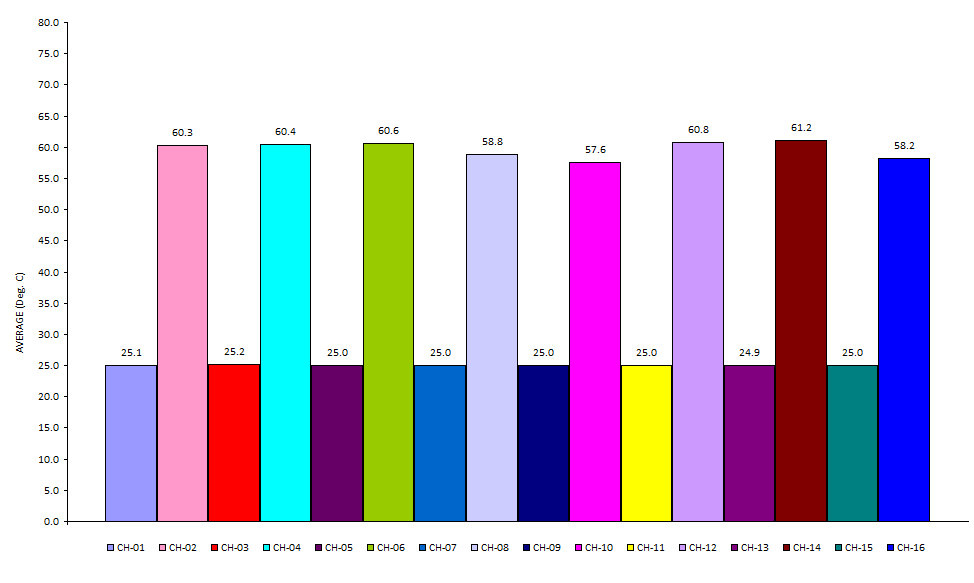
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| **Run No.: 01** | **Graph Time Vs Rh-II** | **Temperature & Rh Mapping** |



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| --- | --- | --- |
| **Run No.: 01** | **Data Sheet for Temperature & RH** | **Temperature & Rh Mapping** |

| **DATE** | **TIME** | **CH-01** | **CH-02** | **CH-03** | **CH-04** | **CH-05** | **CH-06** | **CH-07** | **CH-08** | **CH-09** | **CH-10** | **CH-11** | **CH-12** | **CH-13** | **CH-14** | **CH-15** | **CH-16** |
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| **UNIT** | | **˚C** | **%** | **˚C** | **%** | **˚C** | **%** | **˚C** | **%** | **˚C** | **%** | **˚C** | **%** | **˚C** | **%** | **˚C** | **%** |
| 13/12/2023 | 12:03:01 | 25.1 | 59.4 | 25.2 | 58.2 | 25.0 | 62.7 | 25.2 | 60.0 | 25.1 | 56.8 | 25.2 | 62.8 | 25.2 | 62.4 | 25.3 | 57.5 |
| 13/12/2023 | 12:13:01 | 25.3 | 63.0 | 25.4 | 63.4 | 25.2 | 61.0 | 25.3 | 56.4 | 25.2 | 58.8 | 25.3 | 61.9 | 25.3 | 60.4 | 25.4 | 58.7 |
| 13/12/2023 | 12:23:01 | 25.3 | 61.7 | 25.5 | 61.8 | 25.2 | 59.5 | 25.3 | 59.7 | 25.3 | 58.7 | 25.3 | 59.6 | 25.3 | 61.8 | 25.3 | 58.9 |
| 13/12/2023 | 12:33:01 | 25.3 | 58.0 | 25.5 | 58.2 | 25.2 | 61.5 | 25.3 | 58.4 | 25.3 | 57.0 | 25.3 | 61.3 | 25.3 | 62.7 | 25.3 | 57.5 |
| 13/12/2023 | 12:43:01 | 25.3 | 61.7 | 25.4 | 61.5 | 25.2 | 61.2 | 25.2 | 56.2 | 25.3 | 57.6 | 25.2 | 62.4 | 25.2 | 61.0 | 25.2 | 58.4 |
| 13/12/2023 | 12:53:01 | 25.3 | 61.5 | 25.4 | 62.0 | 25.2 | 59.3 | 25.2 | 58.1 | 25.2 | 58.8 | 25.1 | 60.0 | 25.1 | 60.5 | 25.1 | 58.2 |
| 13/12/2023 | 13:03:01 | 25.2 | 58.5 | 25.3 | 58.0 | 25.2 | 61.0 | 25.1 | 60.2 | 25.2 | 57.4 | 25.1 | 60.1 | 25.1 | 62.9 | 25.1 | 58.2 |
| 13/12/2023 | 13:13:01 | 25.2 | 60.1 | 25.3 | 59.8 | 25.1 | 61.6 | 25.1 | 58.2 | 25.1 | 56.8 | 25.1 | 62.9 | 25.0 | 61.0 | 25.0 | 57.6 |
| 13/12/2023 | 13:23:01 | 25.1 | 62.7 | 25.2 | 63.1 | 25.1 | 60.2 | 25.1 | 58.4 | 25.1 | 58.1 | 25.0 | 61.2 | 25.0 | 59.5 | 25.0 | 58.1 |
| 13/12/2023 | 13:33:01 | 25.1 | 59.8 | 25.2 | 59.2 | 25.1 | 60.0 | 25.0 | 61.2 | 25.1 | 57.8 | 25.0 | 58.9 | 25.0 | 62.4 | 25.0 | 58.6 |
| 13/12/2023 | 13:43:01 | 25.1 | 58.7 | 25.2 | 58.5 | 25.1 | 62.0 | 25.0 | 58.2 | 25.0 | 56.6 | 25.0 | 62.7 | 25.0 | 61.4 | 25.0 | 57.6 |
| 13/12/2023 | 13:53:01 | 25.1 | 62.5 | 25.2 | 63.6 | 25.0 | 60.3 | 25.0 | 58.1 | 25.0 | 58.9 | 25.0 | 61.4 | 24.9 | 59.4 | 24.9 | 58.1 |
| 13/12/2023 | 14:03:01 | 25.1 | 58.8 | 25.1 | 59.5 | 25.0 | 59.8 | 25.0 | 60.7 | 25.0 | 57.9 | 24.9 | 58.5 | 24.9 | 62.0 | 24.9 | 58.5 |
| 13/12/2023 | 14:13:01 | 25.0 | 58.9 | 25.1 | 58.2 | 25.0 | 61.7 | 24.9 | 58.4 | 24.9 | 56.4 | 24.9 | 62.4 | 24.9 | 61.5 | 24.8 | 57.4 |
| 13/12/2023 | 14:23:01 | 25.0 | 62.7 | 25.1 | 63.9 | 24.9 | 60.4 | 24.9 | 59.6 | 24.9 | 58.7 | 24.8 | 61.6 | 24.8 | 59.7 | 24.8 | 58.1 |
| 13/12/2023 | 14:33:01 | 25.0 | 59.6 | 25.0 | 58.9 | 24.9 | 59.9 | 24.8 | 59.6 | 24.9 | 57.7 | 24.8 | 59.1 | 24.8 | 62.3 | 24.8 | 58.6 |
| 13/12/2023 | 14:43:01 | 24.9 | 58.8 | 25.0 | 58.2 | 24.9 | 62.1 | 24.8 | 58.0 | 24.8 | 56.6 | 24.8 | 62.8 | 24.8 | 61.3 | 24.8 | 57.6 |
| 13/12/2023 | 14:53:01 | 25.0 | 62.5 | 25.0 | 63.0 | 24.9 | 60.6 | 24.9 | 58.1 | 24.9 | 58.7 | 24.8 | 61.7 | 24.8 | 59.7 | 24.8 | 58.5 |
| 13/12/2023 | 15:03:01 | 25.0 | 60.0 | 25.0 | 59.7 | 24.9 | 59.6 | 24.9 | 59.1 | 24.9 | 58.1 | 24.8 | 58.5 | 24.8 | 61.7 | 24.9 | 58.9 |
| 13/12/2023 | 15:13:01 | 25.0 | 58.3 | 25.1 | 57.4 | 24.9 | 61.3 | 24.9 | 58.4 | 24.9 | 56.6 | 24.9 | 62.1 | 24.9 | 62.4 | 24.9 | 57.5 |
| 13/12/2023 | 15:23:01 | 25.1 | 62.6 | 25.1 | 63.7 | 24.9 | 61.5 | 25.0 | 56.6 | 24.9 | 58.2 | 24.9 | 61.8 | 24.9 | 60.4 | 25.0 | 58.1 |
| 13/12/2023 | 15:33:01 | 25.1 | 61.3 | 25.2 | 61.6 | 25.0 | 59.0 | 25.0 | 58.0 | 25.0 | 58.4 | 25.0 | 59.0 | 24.9 | 61.8 | 25.0 | 58.0 |
| 13/12/2023 | 15:43:01 | 25.1 | 58.3 | 25.1 | 57.2 | 25.0 | 61.6 | 25.0 | 59.0 | 25.0 | 56.9 | 25.0 | 60.9 | 24.9 | 62.5 | 24.9 | 58.0 |
| 13/12/2023 | 15:53:01 | 25.1 | 61.8 | 25.1 | 61.9 | 25.0 | 61.2 | 25.0 | 58.3 | 25.0 | 57.1 | 25.0 | 62.9 | 24.9 | 61.3 | 24.9 | 58.2 |
| 13/12/2023 | 16:03:01 | 25.1 | 62.3 | 25.1 | 63.8 | 25.0 | 60.2 | 25.0 | 58.2 | 25.0 | 58.0 | 24.9 | 61.1 | 24.9 | 59.6 | 25.0 | 58.4 |
| 13/12/2023 | 16:13:01 | 25.1 | 59.5 | 25.1 | 59.0 | 25.0 | 59.6 | 25.0 | 59.8 | 25.0 | 57.9 | 24.9 | 58.6 | 24.9 | 62.2 | 25.0 | 58.5 |
| 13/12/2023 | 16:23:01 | 25.1 | 58.9 | 25.1 | 58.0 | 25.0 | 61.9 | 25.0 | 58.5 | 25.0 | 56.4 | 25.0 | 62.2 | 24.9 | 62.0 | 24.9 | 57.6 |
| 13/12/2023 | 16:33:01 | 25.1 | 62.5 | 25.2 | 63.3 | 25.0 | 61.6 | 25.0 | 56.6 | 25.0 | 58.0 | 25.0 | 62.0 | 25.0 | 60.4 | 25.0 | 58.9 |
| 13/12/2023 | 16:43:01 | 25.1 | 61.8 | 25.2 | 61.5 | 25.0 | 58.4 | 25.0 | 58.9 | 25.0 | 58.8 | 25.0 | 60.0 | 25.0 | 60.9 | 25.0 | 58.4 |
| 13/12/2023 | 16:53:01 | 25.1 | 58.7 | 25.2 | 58.7 | 25.0 | 61.2 | 25.1 | 61.2 | 25.0 | 57.2 | 25.0 | 60.5 | 25.0 | 63.0 | 25.0 | 58.2 |
| 13/12/2023 | 17:03:01 | 25.1 | 60.9 | 25.2 | 60.8 | 25.1 | 61.9 | 25.1 | 59.2 | 25.1 | 56.8 | 25.1 | 63.0 | 25.0 | 61.1 | 25.1 | 57.6 |
| 13/12/2023 | 17:13:01 | 25.1 | 62.6 | 25.2 | 63.6 | 25.1 | 60.5 | 25.1 | 59.2 | 25.1 | 58.8 | 25.1 | 61.5 | 25.0 | 59.6 | 25.1 | 58.4 |
| 13/12/2023 | 17:23:01 | 25.1 | 60.1 | 25.2 | 59.8 | 25.1 | 59.3 | 25.1 | 60.4 | 25.1 | 58.1 | 25.0 | 58.5 | 25.0 | 61.5 | 25.1 | 58.9 |
| 13/12/2023 | 17:33:01 | 25.1 | 57.9 | 25.2 | 56.6 | 25.1 | 61.4 | 25.1 | 61.6 | 25.1 | 56.8 | 25.1 | 61.1 | 25.0 | 62.4 | 25.1 | 57.6 |
| 13/12/2023 | 17:43:01 | 25.1 | 61.5 | 25.2 | 62.3 | 25.1 | 61.8 | 25.1 | 56.8 | 25.1 | 57.7 | 25.1 | 62.3 | 25.0 | 60.9 | 25.1 | 58.0 |
| 13/12/2023 | 17:53:01 | 25.1 | 61.5 | 25.2 | 62.2 | 25.1 | 59.1 | 25.1 | 59.0 | 25.1 | 58.8 | 25.0 | 60.1 | 25.0 | 60.4 | 25.1 | 58.2 |
| 13/12/2023 | 18:03:01 | 25.1 | 58.1 | 25.2 | 58.8 | 25.1 | 60.9 | 25.1 | 61.3 | 25.1 | 57.3 | 25.0 | 59.9 | 25.0 | 62.8 | 25.0 | 58.4 |
| 13/12/2023 | 18:13:01 | 25.1 | 60.2 | 25.2 | 59.5 | 25.1 | 61.7 | 25.1 | 59.2 | 25.1 | 56.6 | 25.0 | 63.0 | 25.0 | 61.0 | 25.0 | 57.7 |
| 13/12/2023 | 18:23:01 | 25.1 | 62.5 | 25.2 | 63.3 | 25.1 | 60.0 | 25.0 | 58.1 | 25.1 | 58.8 | 25.0 | 61.1 | 25.0 | 59.1 | 25.0 | 58.1 |
| 13/12/2023 | 18:33:01 | 25.1 | 59.1 | 25.2 | 59.2 | 25.0 | 59.6 | 25.0 | 60.0 | 25.0 | 57.7 | 25.0 | 58.4 | 25.0 | 61.7 | 25.0 | 58.8 |
| 13/12/2023 | 18:43:01 | 25.1 | 58.7 | 25.1 | 57.5 | 25.0 | 61.4 | 25.0 | 59.9 | 25.0 | 56.2 | 24.9 | 61.7 | 24.9 | 61.9 | 24.9 | 57.6 |
| 13/12/2023 | 18:53:01 | 25.1 | 61.6 | 25.1 | 62.7 | 25.0 | 61.3 | 25.0 | 56.0 | 25.0 | 58.0 | 24.9 | 61.6 | 24.9 | 60.2 | 24.9 | 58.2 |
| 13/12/2023 | 19:03:01 | 25.1 | 61.1 | 25.1 | 61.5 | 25.0 | 59.1 | 25.0 | 58.9 | 25.0 | 58.7 | 25.0 | 59.5 | 24.9 | 60.6 | 25.0 | 58.4 |
| 13/12/2023 | 19:13:01 | 25.1 | 58.8 | 25.2 | 58.1 | 25.0 | 61.0 | 25.0 | 58.8 | 25.0 | 57.3 | 25.0 | 60.0 | 25.0 | 62.8 | 25.0 | 58.6 |
| 13/12/2023 | 19:23:01 | 25.1 | 58.9 | 25.2 | 58.3 | 25.0 | 61.9 | 25.0 | 59.6 | 25.0 | 56.3 | 25.0 | 62.8 | 25.0 | 61.5 | 25.0 | 57.6 |
| 13/12/2023 | 19:33:01 | 25.1 | 62.7 | 25.2 | 63.6 | 25.0 | 61.0 | 25.0 | 59.8 | 25.1 | 58.5 | 25.0 | 61.1 | 25.0 | 59.9 | 25.0 | 58.1 |
| 13/12/2023 | 19:43:01 | 25.1 | 61.0 | 25.2 | 60.9 | 25.0 | 58.9 | 25.0 | 58.0 | 25.1 | 58.2 | 25.0 | 58.6 | 25.0 | 61.0 | 25.0 | 58.1 |
| 13/12/2023 | 19:53:01 | 25.1 | 58.4 | 25.2 | 57.5 | 25.0 | 61.9 | 25.1 | 61.8 | 25.0 | 56.7 | 25.0 | 61.7 | 25.0 | 62.5 | 25.0 | 58.0 |
| 13/12/2023 | 20:03:01 | 25.1 | 61.8 | 25.2 | 61.7 | 25.1 | 61.9 | 25.0 | 60.0 | 25.1 | 57.5 | 25.0 | 62.6 | 25.0 | 60.9 | 25.0 | 58.5 |
| 13/12/2023 | 20:13:01 | 25.1 | 61.5 | 25.2 | 62.2 | 25.0 | 59.5 | 25.0 | 61.2 | 25.0 | 58.7 | 25.0 | 60.2 | 25.0 | 59.9 | 25.0 | 58.5 |
| 13/12/2023 | 20:23:01 | 25.1 | 58.1 | 25.2 | 58.3 | 25.0 | 60.5 | 25.0 | 58.5 | 25.0 | 57.3 | 25.0 | 59.0 | 25.0 | 62.2 | 25.0 | 58.3 |
| 13/12/2023 | 20:33:01 | 25.1 | 59.3 | 25.2 | 58.7 | 25.0 | 61.7 | 25.0 | 58.0 | 25.0 | 56.3 | 25.0 | 62.9 | 25.0 | 61.0 | 24.9 | 57.6 |
| 13/12/2023 | 20:43:01 | 25.1 | 63.0 | 25.2 | 63.3 | 25.0 | 60.6 | 25.0 | 58.0 | 25.0 | 58.7 | 25.0 | 61.7 | 24.9 | 59.3 | 25.0 | 58.4 |
| 13/12/2023 | 20:53:01 | 25.1 | 60.5 | 25.1 | 60.3 | 25.0 | 59.1 | 25.0 | 58.8 | 25.0 | 58.0 | 24.9 | 58.4 | 24.9 | 61.5 | 25.0 | 58.9 |
| 13/12/2023 | 21:03:01 | 25.1 | 57.9 | 25.1 | 57.4 | 25.0 | 61.5 | 25.0 | 60.6 | 25.0 | 56.3 | 25.0 | 61.7 | 24.9 | 62.0 | 24.9 | 57.4 |
| 13/12/2023 | 21:13:01 | 25.1 | 61.9 | 25.1 | 62.6 | 25.0 | 61.3 | 25.0 | 56.8 | 25.0 | 57.8 | 24.9 | 62.0 | 24.9 | 60.4 | 24.9 | 58.7 |
| 13/12/2023 | 21:23:01 | 25.1 | 61.2 | 25.1 | 61.9 | 25.0 | 58.6 | 25.0 | 58.8 | 25.0 | 58.8 | 24.9 | 59.9 | 24.9 | 60.5 | 25.0 | 58.4 |
| 13/12/2023 | 21:33:01 | 25.1 | 58.9 | 25.1 | 58.7 | 25.0 | 60.6 | 25.0 | 60.1 | 25.0 | 57.3 | 25.0 | 59.4 | 24.9 | 62.6 | 25.0 | 58.2 |
| 13/12/2023 | 21:43:01 | 25.1 | 58.9 | 25.1 | 58.5 | 25.0 | 61.8 | 25.0 | 58.0 | 25.0 | 56.4 | 25.0 | 62.9 | 24.9 | 61.2 | 25.0 | 57.9 |
| 13/12/2023 | 21:53:01 | 25.1 | 63.1 | 25.2 | 63.6 | 25.0 | 60.3 | 25.0 | 58.2 | 25.0 | 58.7 | 25.0 | 61.4 | 24.9 | 59.3 | 25.0 | 58.3 |
| 13/12/2023 | 22:03:01 | 25.1 | 59.5 | 25.2 | 60.3 | 25.0 | 59.1 | 25.0 | 59.6 | 25.0 | 58.0 | 25.0 | 58.3 | 25.0 | 61.5 | 25.0 | 58.0 |
| 13/12/2023 | 22:13:01 | 25.1 | 57.9 | 25.2 | 57.2 | 25.0 | 61.1 | 25.0 | 60.4 | 25.0 | 56.4 | 25.0 | 61.4 | 25.0 | 62.2 | 25.0 | 57.3 |
| 13/12/2023 | 22:23:01 | 25.1 | 61.9 | 25.2 | 63.1 | 25.0 | 61.3 | 25.0 | 59.4 | 25.0 | 58.0 | 25.0 | 61.6 | 25.0 | 60.1 | 25.0 | 58.1 |
| 13/12/2023 | 22:33:01 | 25.1 | 60.6 | 25.2 | 61.2 | 25.0 | 58.8 | 25.0 | 58.0 | 25.0 | 58.3 | 25.0 | 58.8 | 25.0 | 61.6 | 25.0 | 58.1 |
| 13/12/2023 | 22:43:01 | 25.1 | 58.2 | 25.2 | 57.2 | 25.0 | 61.3 | 25.0 | 58.4 | 25.0 | 56.6 | 25.0 | 61.4 | 25.0 | 62.4 | 25.0 | 57.6 |
| 13/12/2023 | 22:53:01 | 25.1 | 61.1 | 25.1 | 61.1 | 25.0 | 61.8 | 25.0 | 60.2 | 25.0 | 57.3 | 25.0 | 62.2 | 24.9 | 60.8 | 24.9 | 58.6 |
| 13/12/2023 | 23:03:01 | 25.1 | 61.5 | 25.1 | 62.0 | 25.0 | 58.8 | 25.0 | 61.6 | 25.0 | 58.6 | 24.9 | 59.7 | 24.9 | 60.6 | 25.0 | 58.3 |
| 13/12/2023 | 23:13:01 | 25.1 | 58.1 | 25.1 | 58.7 | 25.0 | 61.4 | 25.0 | 58.8 | 25.0 | 56.9 | 25.0 | 60.6 | 25.0 | 62.5 | 25.0 | 57.5 |
| 13/12/2023 | 23:23:01 | 25.1 | 61.1 | 25.2 | 60.5 | 25.0 | 61.3 | 25.0 | 58.7 | 25.0 | 56.9 | 25.0 | 63.0 | 25.0 | 61.4 | 25.0 | 58.1 |
| 13/12/2023 | 23:33:01 | 25.1 | 62.3 | 25.2 | 63.1 | 25.0 | 59.9 | 25.0 | 59.6 | 25.0 | 58.8 | 25.0 | 60.6 | 24.9 | 59.6 | 25.0 | 58.4 |
| 13/12/2023 | 23:43:01 | 25.1 | 58.5 | 25.1 | 58.9 | 25.0 | 60.6 | 25.0 | 58.3 | 25.0 | 57.2 | 25.0 | 59.3 | 24.9 | 62.7 | 25.0 | 58.3 |
| 13/12/2023 | 23:53:01 | 25.1 | 59.7 | 25.1 | 59.3 | 25.0 | 61.7 | 25.0 | 58.2 | 25.0 | 56.5 | 25.0 | 62.9 | 24.9 | 61.8 | 25.0 | 58.0 |
| 14/12/2023 | 00:03:01 | 25.1 | 62.2 | 25.2 | 63.2 | 25.0 | 60.0 | 25.0 | 59.9 | 25.0 | 58.8 | 25.0 | 60.8 | 24.9 | 59.7 | 25.0 | 58.6 |
| 14/12/2023 | 00:13:01 | 25.1 | 58.7 | 25.2 | 58.9 | 25.0 | 60.2 | 25.0 | 59.7 | 25.0 | 57.4 | 25.0 | 58.9 | 25.0 | 62.5 | 25.0 | 58.6 |
| 14/12/2023 | 00:23:01 | 25.1 | 59.2 | 25.2 | 58.6 | 25.0 | 61.8 | 25.0 | 58.0 | 25.0 | 56.4 | 25.0 | 62.7 | 25.0 | 61.0 | 25.0 | 57.7 |
| 14/12/2023 | 00:33:01 | 25.1 | 62.7 | 25.2 | 63.0 | 25.0 | 60.5 | 25.0 | 58.0 | 25.1 | 58.6 | 25.0 | 61.6 | 25.0 | 59.5 | 25.0 | 58.8 |
| 14/12/2023 | 00:43:01 | 25.1 | 60.6 | 25.2 | 60.1 | 25.0 | 59.0 | 25.0 | 59.7 | 25.0 | 57.9 | 25.0 | 58.4 | 25.0 | 61.6 | 25.0 | 58.0 |
| 14/12/2023 | 00:53:01 | 25.1 | 58.3 | 25.2 | 57.2 | 25.0 | 61.6 | 25.0 | 58.8 | 25.0 | 56.6 | 25.0 | 61.5 | 25.0 | 62.0 | 25.0 | 57.8 |
| 14/12/2023 | 01:03:01 | 25.1 | 62.4 | 25.2 | 63.5 | 25.0 | 60.9 | 25.0 | 56.8 | 25.0 | 58.2 | 25.0 | 61.4 | 25.0 | 59.7 | 25.0 | 58.1 |
| 14/12/2023 | 01:13:01 | 25.1 | 61.3 | 25.2 | 61.7 | 25.0 | 58.7 | 25.0 | 58.9 | 25.0 | 58.3 | 25.0 | 59.1 | 25.0 | 61.3 | 25.0 | 58.4 |
| 14/12/2023 | 01:23:01 | 25.1 | 58.3 | 25.1 | 57.3 | 25.0 | 61.8 | 25.0 | 58.0 | 25.0 | 56.8 | 25.0 | 61.7 | 25.0 | 62.5 | 24.9 | 57.8 |
| 14/12/2023 | 01:33:01 | 25.1 | 62.1 | 25.1 | 62.7 | 25.0 | 61.5 | 25.0 | 56.4 | 25.0 | 57.8 | 25.0 | 61.8 | 24.9 | 60.4 | 24.9 | 58.9 |
| 14/12/2023 | 01:43:01 | 25.1 | 61.8 | 25.1 | 61.9 | 25.0 | 58.7 | 25.0 | 59.8 | 25.0 | 58.3 | 24.9 | 59.1 | 24.9 | 61.2 | 25.0 | 58.3 |
| 14/12/2023 | 01:53:01 | 25.1 | 58.1 | 25.1 | 56.9 | 25.0 | 61.9 | 25.0 | 58.1 | 25.0 | 56.9 | 25.0 | 61.9 | 24.9 | 62.4 | 25.0 | 57.9 |
| 14/12/2023 | 02:03:01 | 25.1 | 61.5 | 25.2 | 62.5 | 25.0 | 61.4 | 25.0 | 56.2 | 25.0 | 58.0 | 25.0 | 61.7 | 24.9 | 60.2 | 25.0 | 58.2 |
| 14/12/2023 | 02:13:01 | 25.1 | 61.4 | 25.2 | 61.6 | 25.0 | 58.8 | 25.0 | 60.4 | 25.0 | 58.2 | 25.0 | 58.8 | 24.9 | 61.4 | 25.0 | 58.1 |
| 14/12/2023 | 02:23:01 | 25.1 | 58.4 | 25.1 | 57.3 | 25.0 | 61.9 | 25.0 | 58.0 | 25.0 | 56.7 | 25.0 | 61.6 | 24.9 | 62.4 | 25.0 | 57.6 |
| 14/12/2023 | 02:33:01 | 25.1 | 62.7 | 25.2 | 62.4 | 25.0 | 61.6 | 25.0 | 56.8 | 25.0 | 57.5 | 25.0 | 62.0 | 24.9 | 60.5 | 25.0 | 58.9 |
| 14/12/2023 | 02:43:01 | 25.1 | 61.4 | 25.2 | 61.7 | 25.0 | 59.0 | 25.0 | 58.6 | 25.0 | 58.5 | 25.0 | 59.6 | 24.9 | 60.7 | 25.0 | 58.4 |
| 14/12/2023 | 02:53:01 | 25.1 | 58.1 | 25.1 | 57.8 | 25.0 | 61.6 | 25.0 | 58.8 | 25.0 | 56.9 | 25.0 | 60.7 | 25.0 | 62.7 | 25.0 | 58.2 |
| 14/12/2023 | 03:03:01 | 25.1 | 61.1 | 25.2 | 61.3 | 25.0 | 61.8 | 25.0 | 56.6 | 25.0 | 57.5 | 25.0 | 62.4 | 24.9 | 60.6 | 25.0 | 58.9 |
| 14/12/2023 | 03:13:01 | 25.1 | 61.4 | 25.2 | 62.0 | 25.0 | 59.3 | 25.0 | 58.4 | 25.0 | 58.7 | 25.0 | 59.8 | 25.0 | 60.2 | 25.0 | 58.5 |
| 14/12/2023 | 03:23:01 | 25.1 | 58.7 | 25.2 | 57.8 | 25.0 | 61.6 | 25.0 | 58.0 | 25.0 | 56.6 | 25.0 | 61.3 | 25.0 | 62.5 | 25.0 | 58.1 |
| 14/12/2023 | 03:33:01 | 25.1 | 61.8 | 25.2 | 62.6 | 25.0 | 61.4 | 25.0 | 56.0 | 25.0 | 58.0 | 25.0 | 61.7 | 25.0 | 60.0 | 25.0 | 58.0 |
| 14/12/2023 | 03:43:01 | 25.1 | 60.8 | 25.2 | 61.4 | 25.0 | 58.6 | 25.0 | 59.8 | 25.0 | 58.1 | 25.0 | 58.6 | 24.9 | 61.8 | 25.0 | 58.1 |
| 14/12/2023 | 03:53:01 | 25.1 | 58.2 | 25.1 | 56.7 | 25.0 | 61.2 | 25.0 | 60.6 | 25.0 | 56.2 | 25.0 | 61.5 | 24.9 | 62.1 | 24.9 | 57.5 |
| 14/12/2023 | 04:03:01 | 25.1 | 62.2 | 25.1 | 62.7 | 25.0 | 61.0 | 25.0 | 56.0 | 25.0 | 58.1 | 25.0 | 61.4 | 24.9 | 60.0 | 25.0 | 58.4 |
| 14/12/2023 | 04:13:01 | 25.1 | 61.0 | 25.1 | 61.5 | 25.0 | 58.7 | 25.0 | 59.6 | 25.0 | 58.1 | 24.9 | 58.5 | 24.9 | 61.0 | 25.0 | 58.0 |
| 14/12/2023 | 04:23:01 | 25.1 | 58.3 | 25.1 | 57.0 | 25.0 | 61.3 | 25.0 | 58.0 | 25.0 | 56.2 | 25.0 | 61.7 | 24.9 | 61.9 | 24.9 | 57.4 |
| 14/12/2023 | 04:33:01 | 25.1 | 62.7 | 25.2 | 63.2 | 25.0 | 61.0 | 25.0 | 55.8 | 25.0 | 58.3 | 25.0 | 61.1 | 24.9 | 59.6 | 25.0 | 58.6 |
| 14/12/2023 | 04:43:01 | 25.1 | 60.2 | 25.1 | 60.1 | 25.0 | 58.7 | 25.0 | 58.4 | 25.0 | 58.0 | 24.9 | 58.4 | 24.9 | 61.1 | 25.0 | 58.1 |
| 14/12/2023 | 04:53:01 | 25.1 | 57.9 | 25.1 | 57.1 | 25.0 | 61.6 | 25.0 | 58.0 | 25.0 | 56.3 | 25.0 | 61.8 | 24.9 | 62.0 | 25.0 | 57.8 |
| 14/12/2023 | 05:03:01 | 25.1 | 62.7 | 25.1 | 63.2 | 25.0 | 60.9 | 25.0 | 58.1 | 25.0 | 58.4 | 25.0 | 61.0 | 24.9 | 59.6 | 24.9 | 58.2 |
| 14/12/2023 | 05:13:01 | 25.1 | 59.5 | 25.1 | 60.1 | 25.0 | 59.1 | 25.0 | 63.5 | 25.0 | 57.7 | 24.9 | 58.2 | 24.9 | 61.6 | 24.9 | 58.8 |
| 14/12/2023 | 05:23:01 | 25.1 | 58.0 | 25.1 | 58.3 | 25.0 | 61.8 | 25.0 | 58.0 | 25.0 | 56.1 | 24.9 | 62.3 | 24.9 | 61.4 | 24.9 | 57.6 |
| 14/12/2023 | 05:33:01 | 25.1 | 62.6 | 25.1 | 63.6 | 25.0 | 60.3 | 25.0 | 58.0 | 25.0 | 58.6 | 24.9 | 61.3 | 24.9 | 59.3 | 24.9 | 58.3 |
| 14/12/2023 | 05:43:01 | 25.1 | 58.8 | 25.1 | 58.7 | 25.0 | 60.0 | 25.0 | 58.0 | 25.0 | 57.3 | 24.9 | 58.6 | 24.9 | 62.2 | 24.9 | 58.3 |
| 14/12/2023 | 05:53:01 | 25.1 | 59.8 | 25.1 | 60.0 | 25.0 | 61.2 | 24.9 | 58.2 | 24.9 | 56.6 | 24.9 | 62.6 | 24.9 | 61.3 | 24.9 | 58.2 |
| 14/12/2023 | 06:03:01 | 25.1 | 62.3 | 25.1 | 63.1 | 24.9 | 59.7 | 24.9 | 59.9 | 24.9 | 58.7 | 24.9 | 60.4 | 24.9 | 59.7 | 24.9 | 58.5 |
| 14/12/2023 | 06:13:01 | 25.0 | 58.1 | 25.1 | 58.8 | 24.9 | 60.3 | 24.9 | 58.0 | 24.9 | 57.2 | 24.9 | 59.5 | 24.9 | 62.4 | 24.9 | 58.0 |
| 14/12/2023 | 06:23:01 | 25.0 | 59.9 | 25.1 | 59.6 | 24.9 | 61.2 | 24.9 | 58.0 | 24.9 | 56.5 | 24.9 | 62.5 | 24.9 | 61.5 | 24.9 | 58.2 |
| 14/12/2023 | 06:33:01 | 25.0 | 62.0 | 25.1 | 63.6 | 24.9 | 59.9 | 24.9 | 59.6 | 24.9 | 58.7 | 24.9 | 60.9 | 24.8 | 59.2 | 24.9 | 58.6 |
| 14/12/2023 | 06:43:01 | 25.0 | 58.9 | 25.1 | 59.0 | 24.9 | 60.1 | 24.9 | 58.0 | 24.9 | 57.4 | 24.9 | 58.8 | 24.9 | 62.2 | 24.9 | 58.7 |
| 14/12/2023 | 06:53:01 | 25.0 | 58.4 | 25.1 | 58.3 | 24.9 | 61.5 | 24.9 | 59.1 | 24.9 | 56.2 | 24.9 | 62.7 | 24.9 | 61.2 | 24.9 | 57.7 |
| 14/12/2023 | 07:03:01 | 25.0 | 62.8 | 25.1 | 63.8 | 24.9 | 60.5 | 24.9 | 58.3 | 24.9 | 58.5 | 24.9 | 61.6 | 24.9 | 59.6 | 24.9 | 58.5 |
| 14/12/2023 | 07:13:01 | 25.0 | 60.3 | 25.1 | 60.7 | 24.9 | 58.8 | 24.9 | 58.2 | 24.9 | 58.0 | 24.9 | 58.5 | 24.9 | 61.9 | 24.9 | 58.1 |
| 14/12/2023 | 07:23:01 | 25.1 | 57.9 | 25.1 | 57.4 | 25.0 | 61.3 | 25.0 | 58.0 | 24.9 | 56.6 | 24.9 | 61.7 | 24.9 | 62.3 | 24.9 | 57.8 |
| 14/12/2023 | 07:33:01 | 25.1 | 61.4 | 25.1 | 61.4 | 25.0 | 61.8 | 25.0 | 56.2 | 25.0 | 57.3 | 24.9 | 62.3 | 24.9 | 60.7 | 24.9 | 58.2 |
| 14/12/2023 | 07:43:01 | 25.1 | 61.7 | 25.1 | 62.5 | 25.0 | 59.2 | 24.9 | 58.4 | 25.0 | 58.5 | 24.9 | 60.1 | 24.9 | 59.8 | 24.9 | 58.5 |
| 14/12/2023 | 07:53:01 | 25.0 | 58.5 | 25.1 | 58.2 | 24.9 | 60.1 | 24.9 | 60.4 | 24.9 | 57.3 | 24.9 | 58.9 | 24.9 | 62.5 | 24.9 | 58.5 |
| 14/12/2023 | 08:03:01 | 25.0 | 58.2 | 25.1 | 58.7 | 25.0 | 61.6 | 25.0 | 58.3 | 24.9 | 56.3 | 24.9 | 62.0 | 24.9 | 61.5 | 24.9 | 57.6 |
| 14/12/2023 | 08:13:01 | 25.1 | 62.4 | 25.1 | 63.2 | 25.0 | 60.8 | 24.9 | 58.0 | 25.0 | 58.1 | 24.9 | 61.0 | 24.9 | 59.7 | 24.9 | 58.2 |
| 14/12/2023 | 08:23:01 | 25.1 | 60.5 | 25.1 | 60.5 | 24.9 | 58.8 | 24.9 | 60.4 | 24.9 | 57.9 | 24.9 | 58.3 | 24.9 | 61.2 | 24.9 | 58.8 |
| 14/12/2023 | 08:33:01 | 25.0 | 57.4 | 25.1 | 56.1 | 24.9 | 61.1 | 24.9 | 59.2 | 24.9 | 56.3 | 24.9 | 61.8 | 24.9 | 62.0 | 24.9 | 57.4 |
| 14/12/2023 | 08:43:01 | 25.0 | 61.4 | 25.1 | 62.1 | 24.9 | 61.4 | 24.9 | 58.4 | 24.9 | 57.3 | 24.9 | 62.0 | 24.9 | 60.4 | 24.9 | 58.4 |
| 14/12/2023 | 08:53:01 | 25.0 | 61.4 | 25.1 | 62.5 | 24.9 | 58.9 | 24.9 | 60.0 | 24.9 | 58.8 | 24.9 | 60.2 | 24.9 | 59.5 | 24.9 | 58.5 |
| 14/12/2023 | 09:03:01 | 25.0 | 58.9 | 25.1 | 59.4 | 24.9 | 59.2 | 24.9 | 61.0 | 24.9 | 57.5 | 24.9 | 58.9 | 24.9 | 61.4 | 24.9 | 58.8 |
| 14/12/2023 | 09:13:01 | 25.0 | 57.6 | 25.0 | 57.1 | 24.9 | 61.5 | 24.9 | 58.0 | 24.9 | 56.5 | 24.9 | 61.3 | 24.9 | 62.4 | 24.8 | 57.8 |
| 14/12/2023 | 09:23:01 | 25.0 | 60.7 | 25.1 | 61.7 | 24.9 | 61.3 | 24.9 | 59.0 | 24.9 | 56.7 | 24.9 | 62.8 | 24.9 | 61.6 | 24.9 | 58.1 |
| 14/12/2023 | 09:33:01 | 25.0 | 63.4 | 25.1 | 63.2 | 24.9 | 60.3 | 24.9 | 55.4 | 24.9 | 58.3 | 24.9 | 61.0 | 24.9 | 59.7 | 24.9 | 58.2 |
| 14/12/2023 | 09:43:01 | 25.0 | 61.0 | 25.1 | 61.7 | 24.9 | 58.6 | 24.9 | 58.8 | 24.9 | 58.4 | 24.9 | 59.3 | 24.9 | 60.9 | 24.9 | 58.5 |
| 14/12/2023 | 09:53:01 | 25.0 | 58.3 | 25.1 | 57.9 | 24.9 | 60.9 | 24.9 | 59.7 | 24.9 | 56.9 | 24.9 | 59.9 | 24.9 | 62.4 | 24.9 | 57.9 |
| 14/12/2023 | 10:03:01 | 25.0 | 59.4 | 25.1 | 59.2 | 24.9 | 61.5 | 24.9 | 58.0 | 24.9 | 56.4 | 24.9 | 62.3 | 24.9 | 61.9 | 24.9 | 57.7 |
| 14/12/2023 | 10:13:01 | 25.0 | 62.9 | 25.1 | 63.0 | 24.9 | 60.8 | 24.9 | 59.2 | 24.9 | 58.0 | 24.9 | 61.3 | 24.9 | 59.8 | 24.9 | 58.0 |
| 14/12/2023 | 10:23:01 | 25.1 | 61.8 | 25.1 | 61.8 | 24.9 | 58.9 | 25.0 | 58.3 | 25.0 | 58.6 | 24.9 | 59.7 | 24.9 | 60.4 | 25.0 | 58.6 |
| 14/12/2023 | 10:33:01 | 25.1 | 58.7 | 25.1 | 58.1 | 25.0 | 60.0 | 25.0 | 62.6 | 25.0 | 57.6 | 25.0 | 58.3 | 25.0 | 61.8 | 25.0 | 58.7 |
| 14/12/2023 | 10:43:01 | 25.1 | 58.2 | 25.2 | 57.5 | 25.0 | 61.6 | 25.0 | 60.0 | 25.0 | 56.3 | 25.0 | 61.7 | 25.0 | 62.0 | 25.0 | 57.2 |
| 14/12/2023 | 10:53:01 | 25.1 | 62.1 | 25.2 | 63.4 | 25.0 | 61.6 | 25.0 | 57.0 | 25.0 | 57.2 | 25.0 | 62.5 | 25.0 | 60.7 | 25.0 | 58.7 |
| 14/12/2023 | 11:03:01 | 25.1 | 61.8 | 25.2 | 62.5 | 25.0 | 59.6 | 25.0 | 60.0 | 25.0 | 58.8 | 25.0 | 60.7 | 25.0 | 59.2 | 25.0 | 58.7 |
| 14/12/2023 | 11:13:01 | 25.1 | 59.6 | 25.2 | 59.3 | 25.0 | 59.1 | 25.0 | 60.5 | 25.0 | 57.8 | 25.0 | 58.0 | 25.0 | 61.4 | 25.0 | 58.0 |
| 14/12/2023 | 11:23:01 | 25.1 | 57.5 | 25.2 | 57.5 | 25.0 | 61.4 | 25.0 | 61.6 | 25.0 | 56.4 | 25.0 | 61.8 | 25.0 | 62.3 | 25.0 | 57.5 |
| 14/12/2023 | 11:33:01 | 25.1 | 61.4 | 25.2 | 61.2 | 25.0 | 61.0 | 25.0 | 58.0 | 25.0 | 57.1 | 25.0 | 62.5 | 25.0 | 61.1 | 25.0 | 58.2 |
| 14/12/2023 | 11:43:01 | 25.1 | 62.7 | 25.2 | 63.5 | 25.0 | 60.0 | 25.0 | 58.9 | 25.0 | 58.7 | 25.0 | 61.0 | 25.0 | 59.1 | 25.0 | 58.8 |
| 14/12/2023 | 11:53:01 | 25.1 | 59.2 | 25.2 | 60.0 | 25.0 | 59.1 | 25.0 | 58.0 | 25.0 | 57.8 | 25.0 | 58.0 | 25.0 | 61.2 | 25.0 | 58.1 |
| 14/12/2023 | 12:03:01 | 25.1 | 57.7 | 25.2 | 57.1 | 25.0 | 61.4 | 25.0 | 58.8 | 25.0 | 56.5 | 25.0 | 61.6 | 25.0 | 62.2 | 25.0 | 57.3 |

|  |  |  |
| --- | --- | --- |
| **Run No.: 01** | **Average Bar Graph** | **Temperature & Rh Mapping** |



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| --- |
| **Abbreviation** |

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| **Abbreviation** | **Expanded Form** |
| VVS | Vision Validation Solutions |
| RH | Relative Humidity |
| ID. No. | Identification Number |
| MIN. | Minimum |
| MAX. | Maximum |
| Temp. | Temperature |
| Mins | Minutes |
| Secs | Seconds |
| Run No. | Run Number |
| CH | Channel |
| HH:MM:SS | Hours:Minutes:Seconds |
| °C | Degree Celsius |
| DD/MM/YYYY | Day/Month/Year |
| N/Ap. | Not Applicable |
| N/Av. | Not Available |

|  |
| --- |
| **Report Authorization** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Vision Validation Solutions** | | | |
|  | **Name** | **Signature** | **Date** |
| **Prepared By** |  |  |  |
| **Checked By** |  |  |  |

**Reviewed By:**

|  |  |  |  |
| --- | --- | --- | --- |
| **XYZ Ltd.** | | | |
| **Department** | **Name** | **Signature** | **Date** |
| **QC** |  |  |  |

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| --- |
| **Job Completion Certificate** |

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| --- | --- |
| **Report No.** | 1205 |
| **Purchase Order No.** | GPEPL/SO/23-24/DEC/012 |
| **Ammendment** | N/Ap. |
| **System Owner** | M/s XYZ Ltd. |
|  | |
| **Site Location** |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Equipment Name** | **Make** | **Model No.** | **Serial No.** | **Remark** | | |
| 1. | Stability Chamber | Sankalp Technical Services And Lab | N/Av. | N/Av. | **Set** | **Temperature** | 25.0 °C (23.0 °C TO 27.0 °C) |
| **RH** | 60.0 % (55.0 % TO 65.0 % ) |
| **Set Time** | | 1440 Mins. |
| **No. Of Channel Used** | | 08 Temperature & 08 RH |
| **Total Cycle/Run** | | 01 Run |
| **Total Number Of Shift/Day** | | 02 Days |

This document is to certify that, the above job has achieved practical completion to the satisfaction of Vision Validation Solutions and M/s XYZ Ltd.

Job completion is accepted by M/s XYZ Ltd. as indicated by signatures below.

**Following relevant documents are hand over:**

* Temperature & RH mapping report for Stability Chamber (VVS/131223/1205)
* Traceability for Datalogger & Sensor. (attached)

|  |  |  |
| --- | --- | --- |
| Certifying Authority |  | Approving Authority |
|  |  |
| For M/s Vision Validation Solutions | M/s XYZ Ltd. |
| Name: | Name: |
| Date: | Designation: |
|  | Date: |

|  |  |  |
| --- | --- | --- |
| **□ Copy for Vision** | **□ Copy for Account** | **□ Copy for User** |