



VOL-01

PERFORMANCE QUALIFICATION PROTOCOL

Annex-01.02

Turn Over Package

FOR
REFRIGERATOR
(QC-REF-06)
OF
UTOPIA PHARMACEUTICALS
10TH OF RAMADAN CITY

CLIENT:



QUALIFICATION PROVIDER:



Package Content:

VOL-01 Performance Qualification Protocol

Annex-01.01) Results Data Sheets

Annex-01.02) Turn Over Package (Attachments)



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01
ATTACHMENTS

Content:

01.02.01.01	Main Cycle No. (I) Printouts
01.02.01.02	Power Failure Printouts
01.02.01.03	Door Opening Printouts
01.02.01.04	Raw Data (on CD)
01.02.01.05	Inspection Label
01.02.01.06	Reference Equipment Calibration Certificates
01.02.01.07	Inspection Certificate



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

ATTACHMENTS 01.02.01.01

Main Cycle Printouts



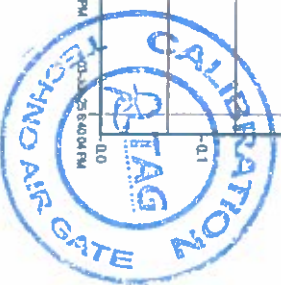
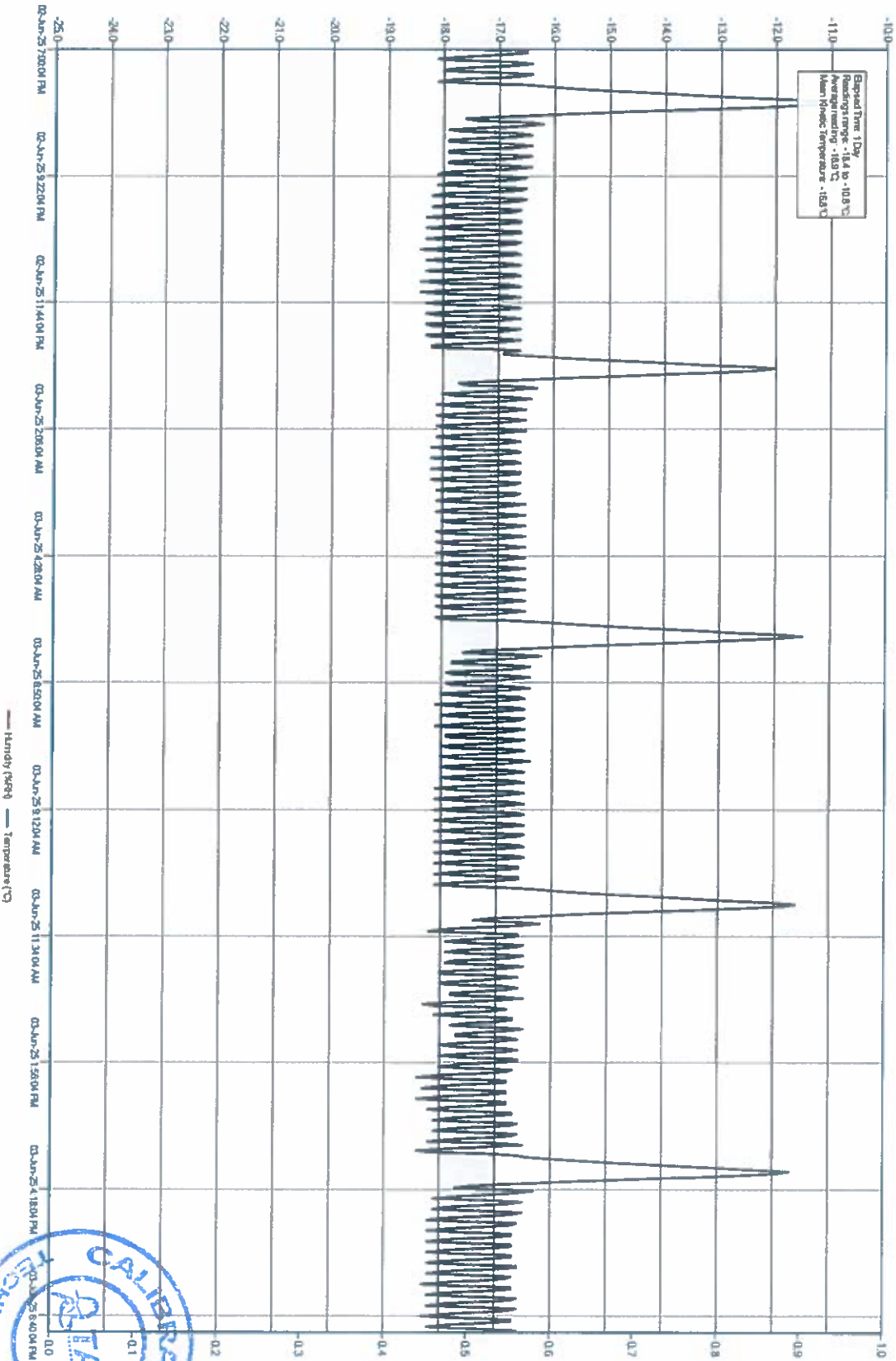
REFRIGERATOR PERFORMANCE QUALIFICATION

LogTag

Temp °C

HAXO-8-1010161113 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

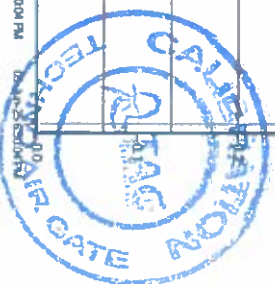
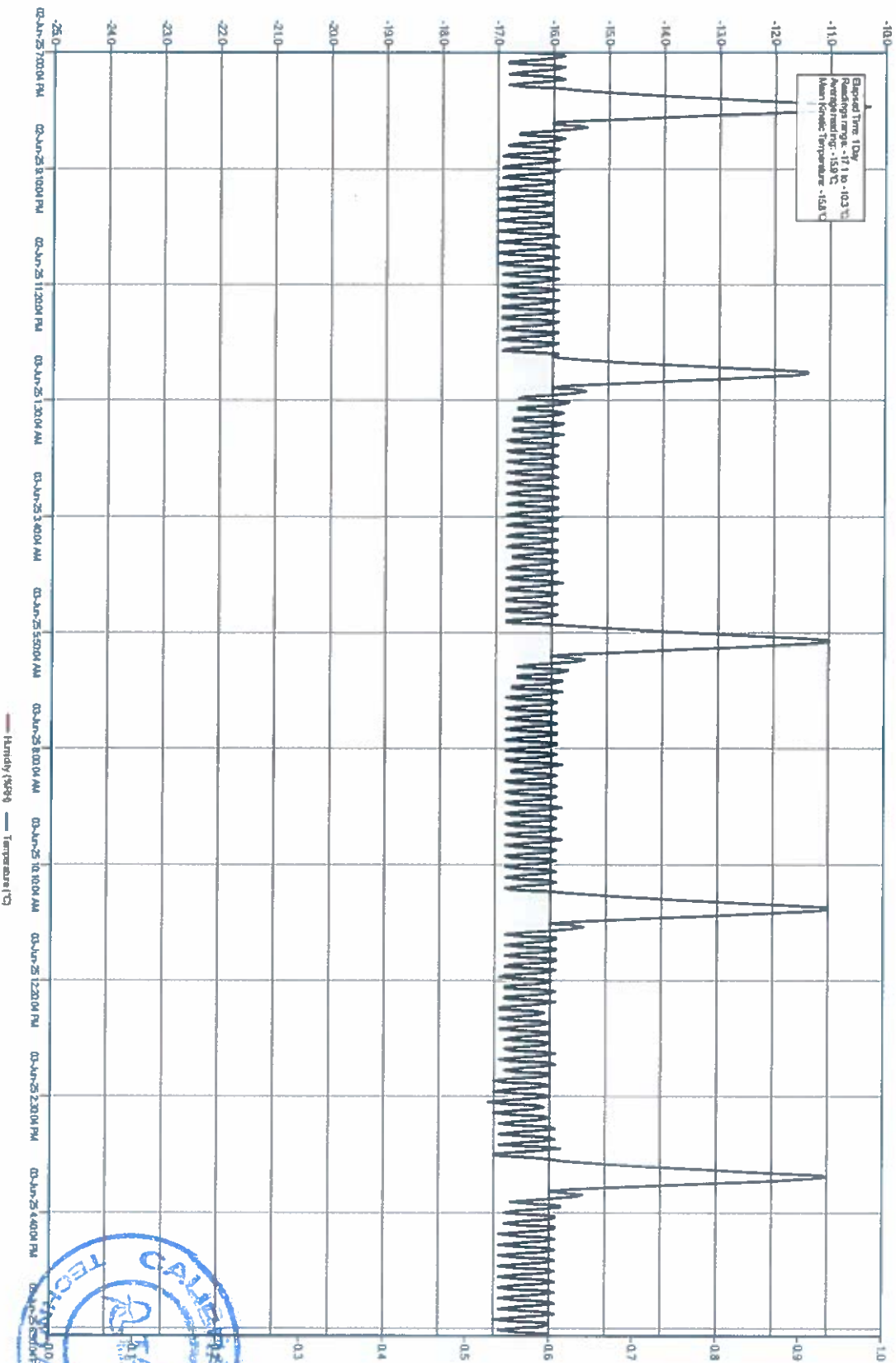


LogTag

Temp °C

HAXO-8-1010161102 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

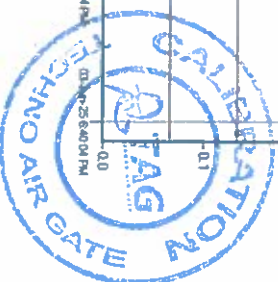
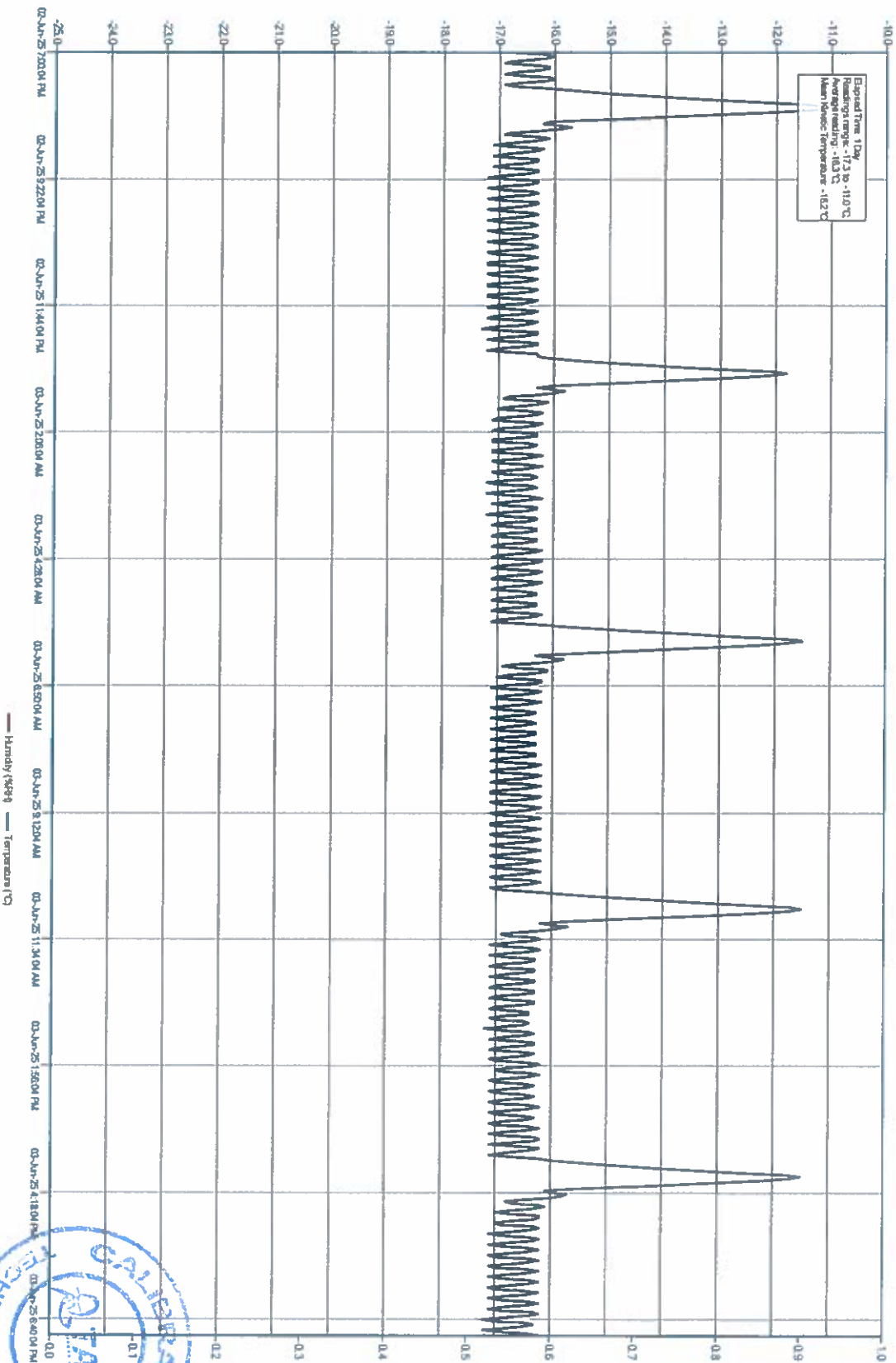


LogTag

Temp °C

HAXO-6: 1010157517 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

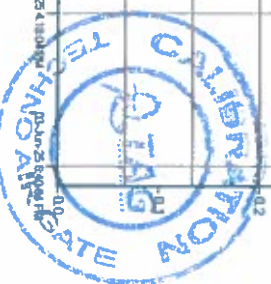
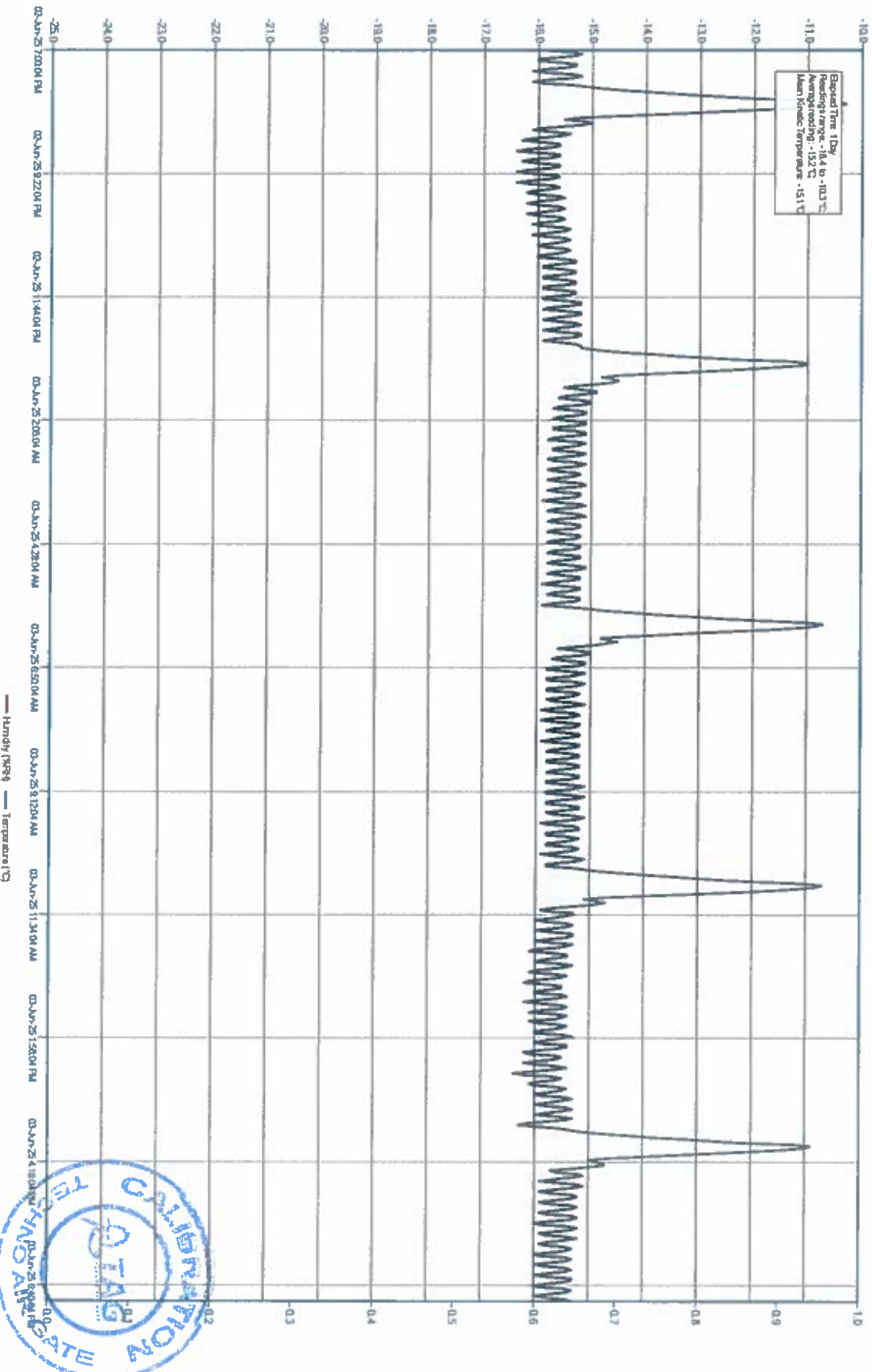


LogTag

Temp °C

HAXO-8-1010150019 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

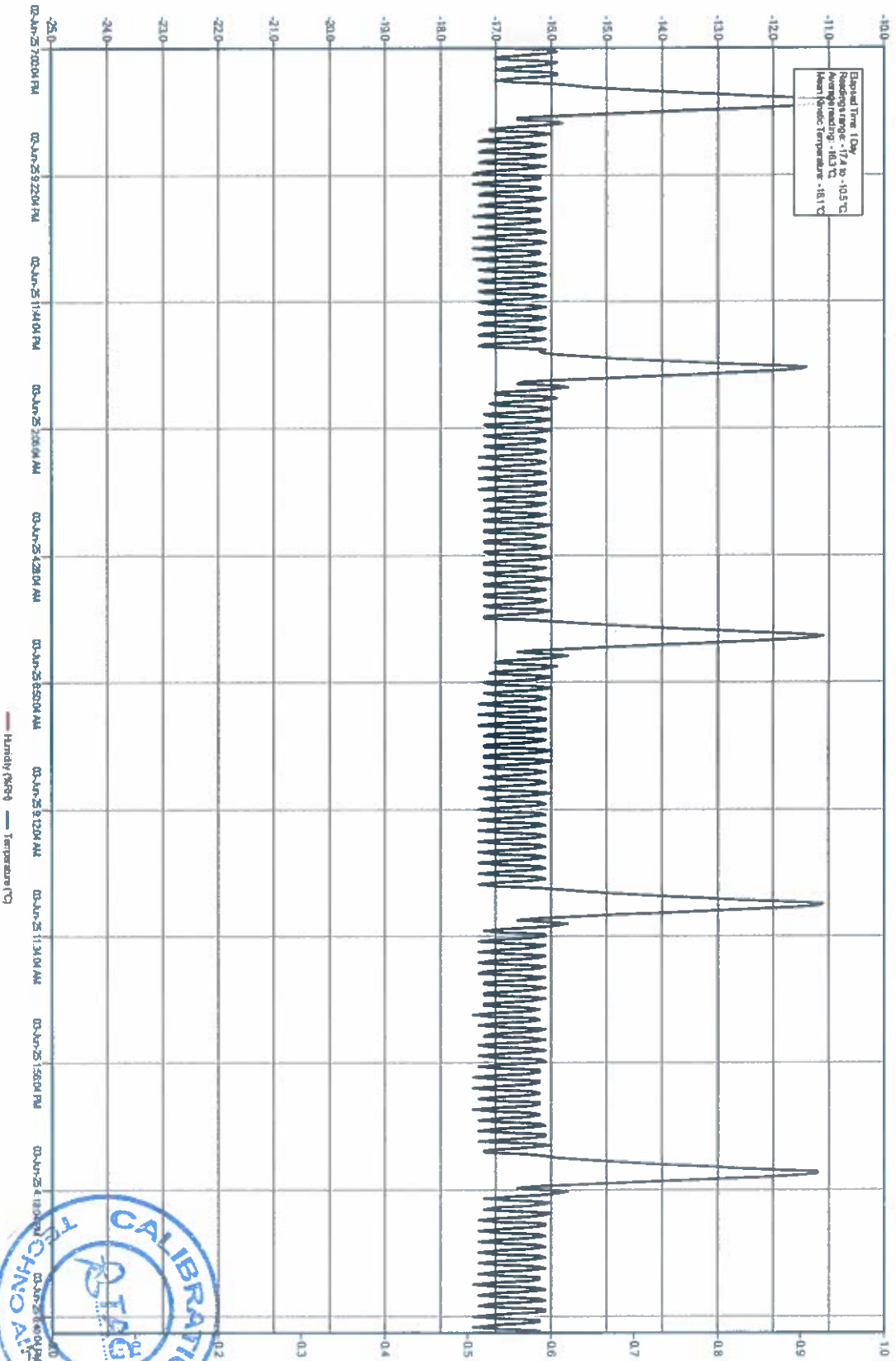


Log Tag

Temp °C

HAXO-B-1010150017 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

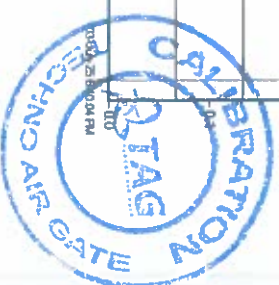
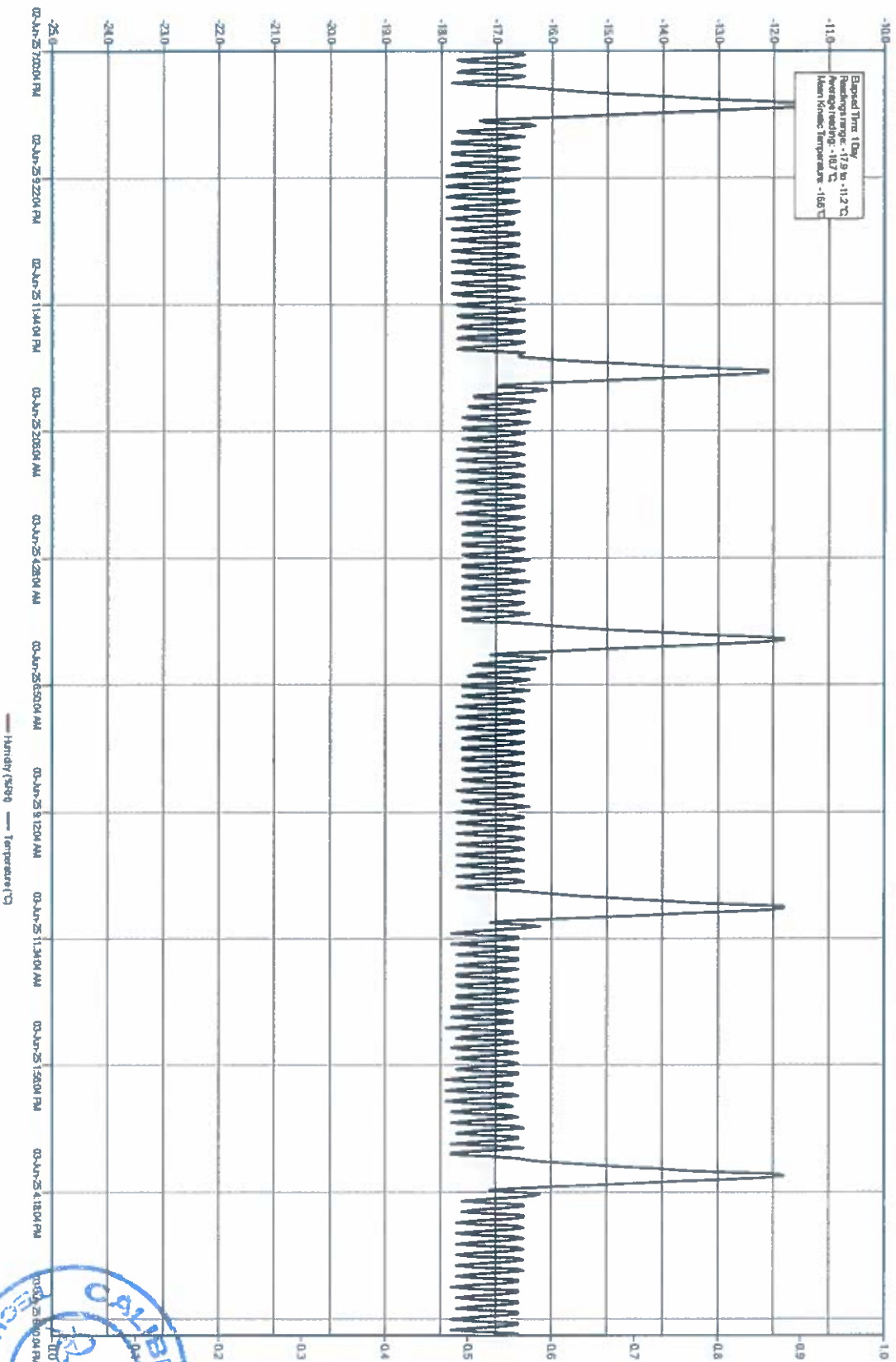


LogTag

Temp °C

HAXO-8-1010150000 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

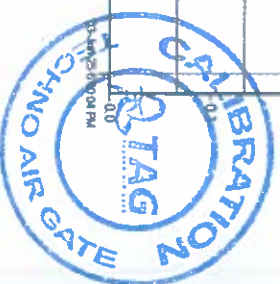
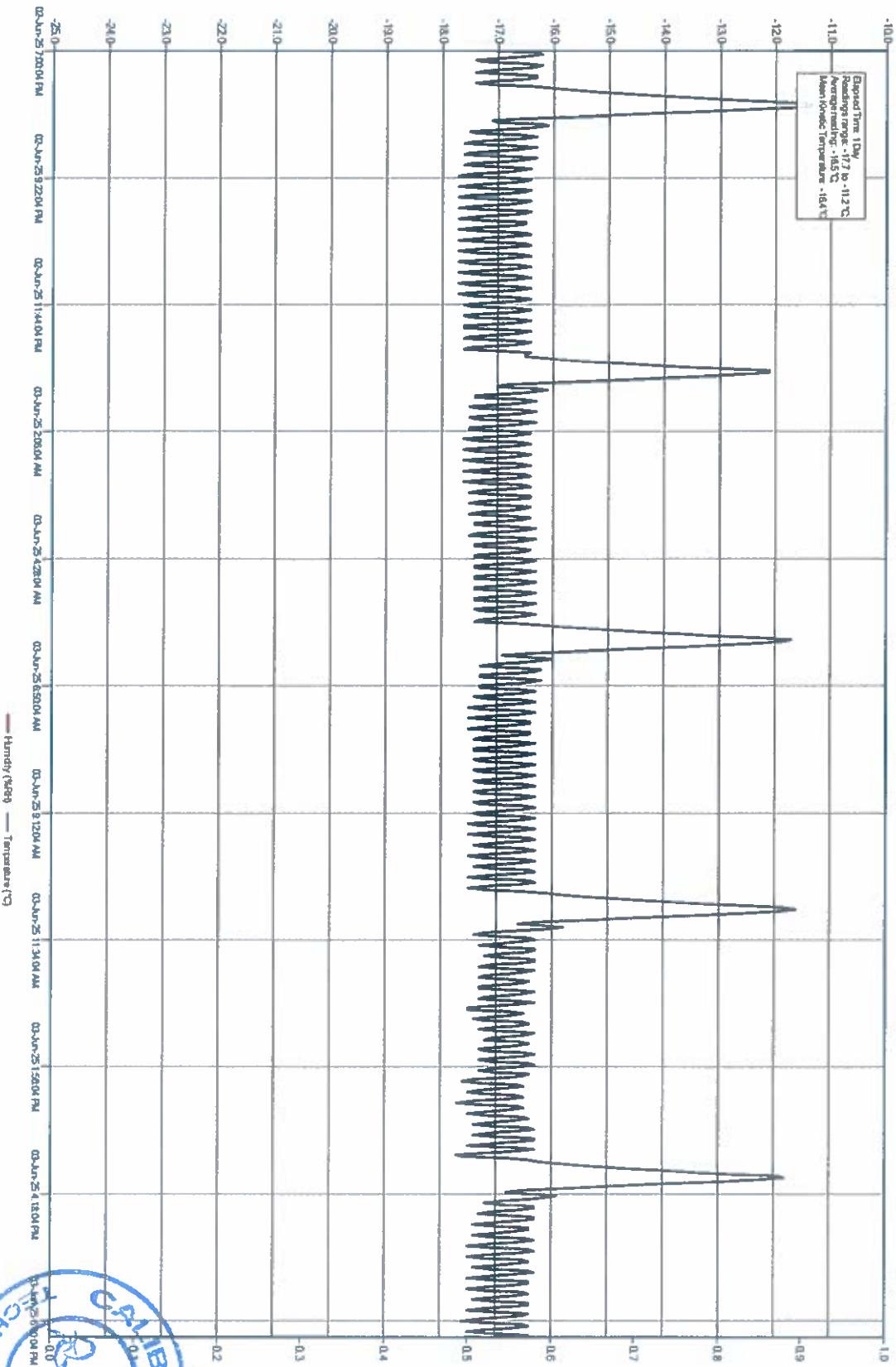


LogTag

Temp °C

HAXO-B-1010149999 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH



Hunt %RH

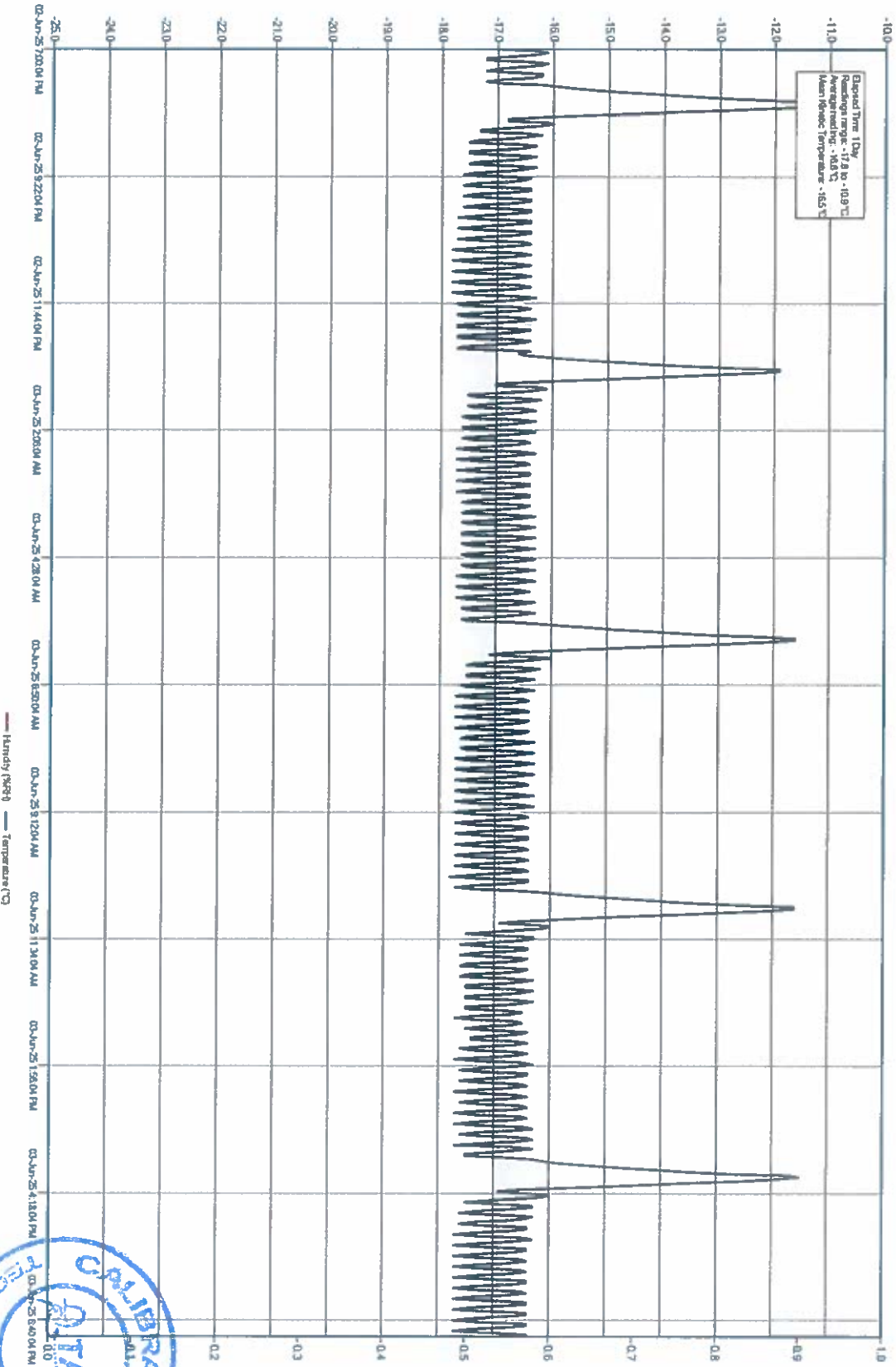


LogTag

Temp °C

HAXO-B-1010148434 Started 02-Jun-25, Finished 04-Jun-25

Humidity %RH

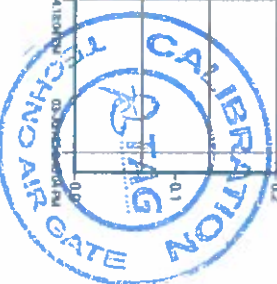
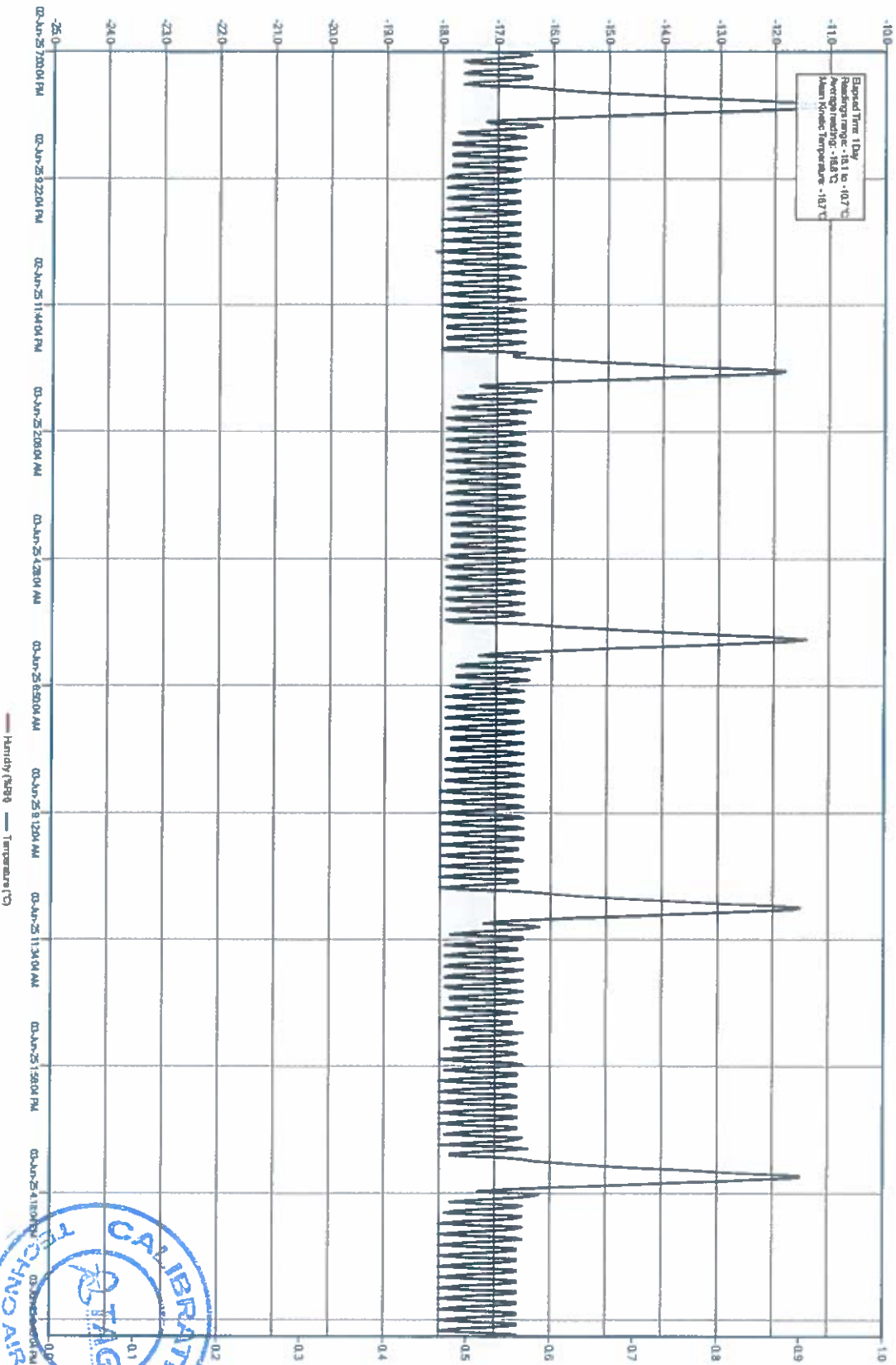


LogTag

Temp °C

HAXO-B-1010144277 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

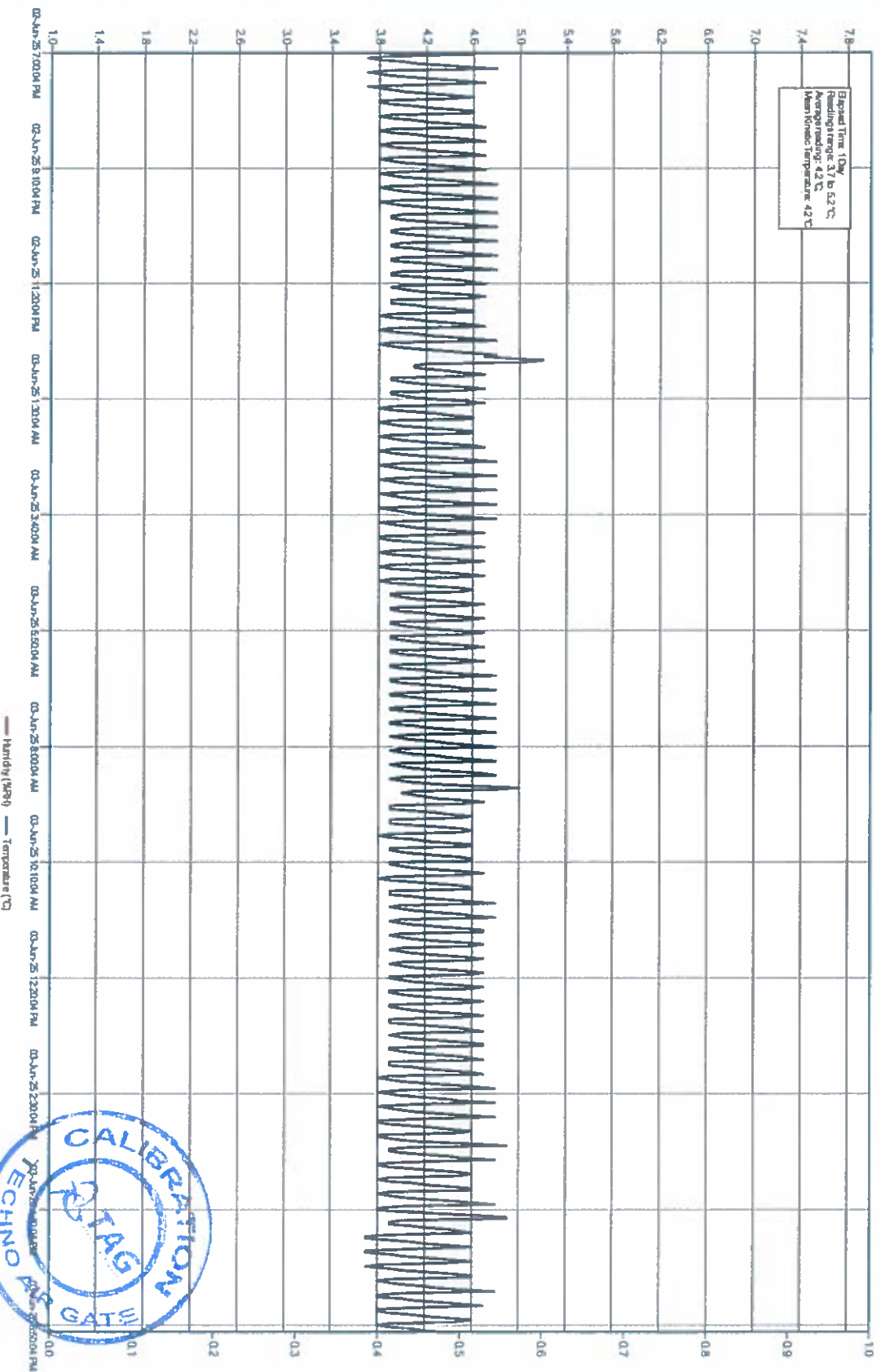


LogTag

Temp °C

HAYO-B-1010161122 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

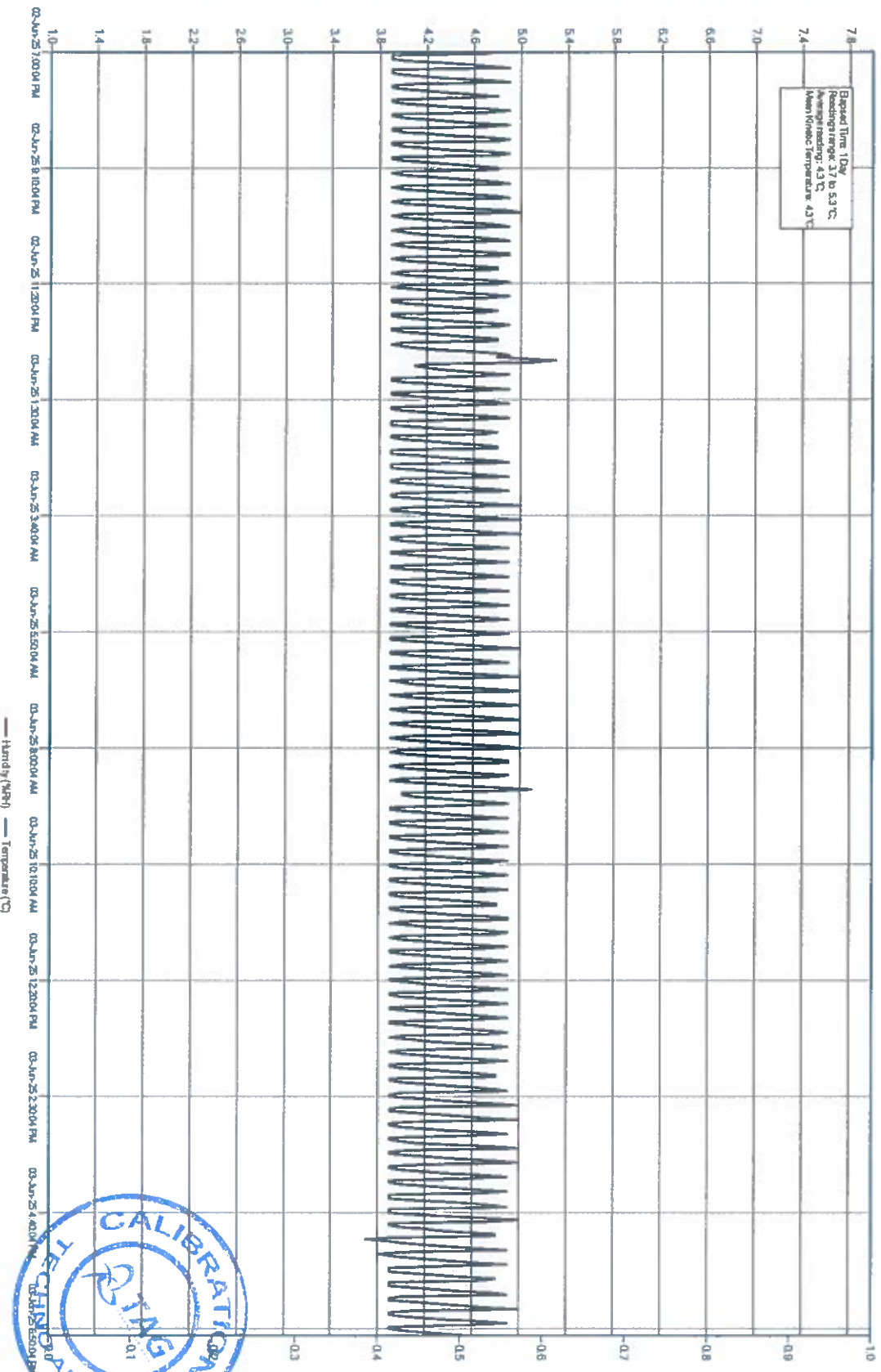


LogTag

Temp °C

HAXO-E 1010161121 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

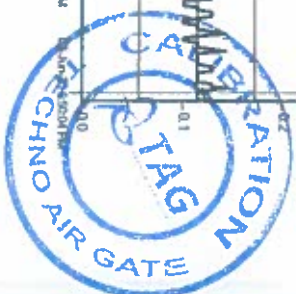
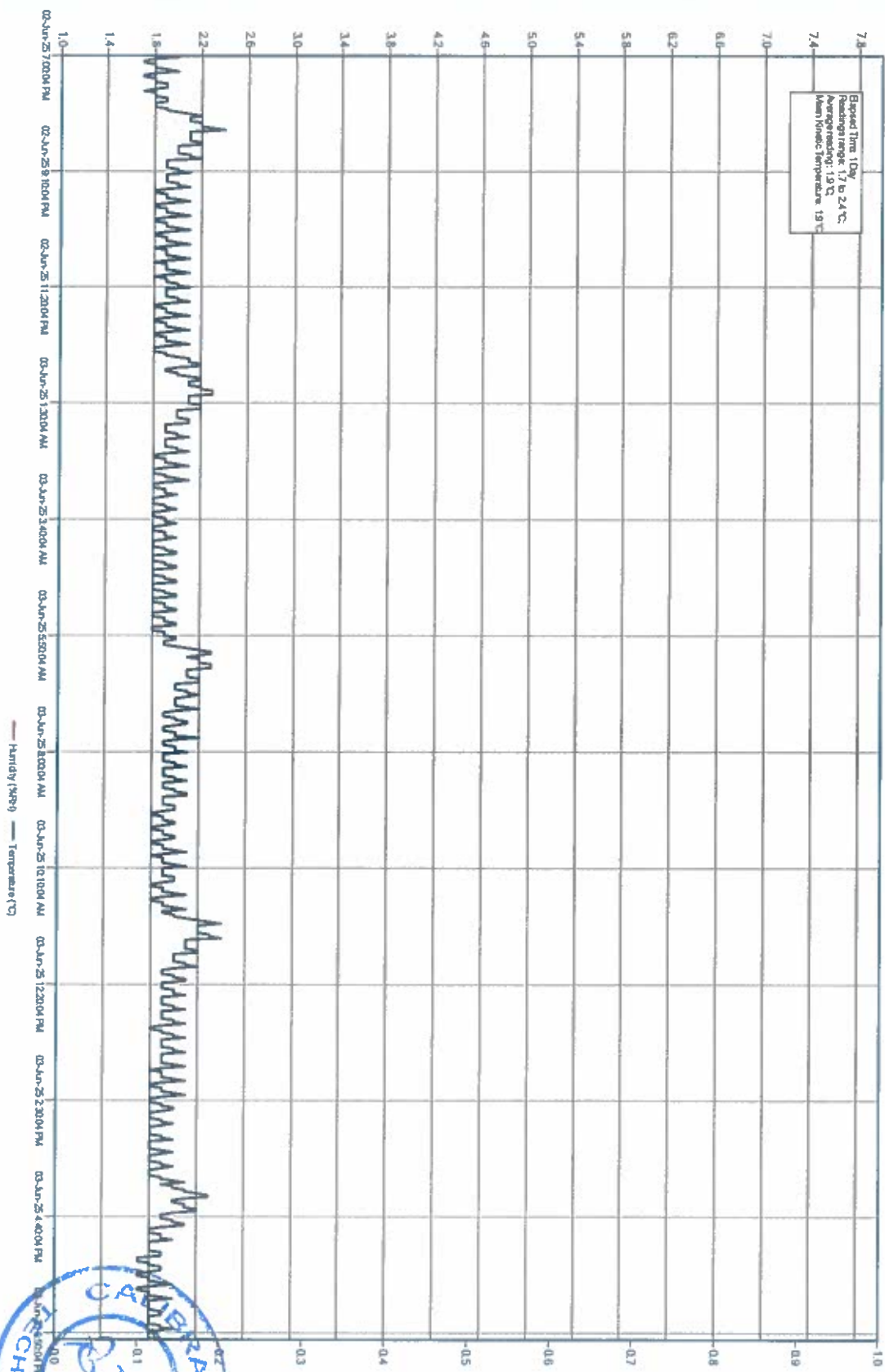


LogTag

Temp. °C

HAYO-B-1010157751 Started 02-Jun-25, Finished 04-Jun-25

Humidity

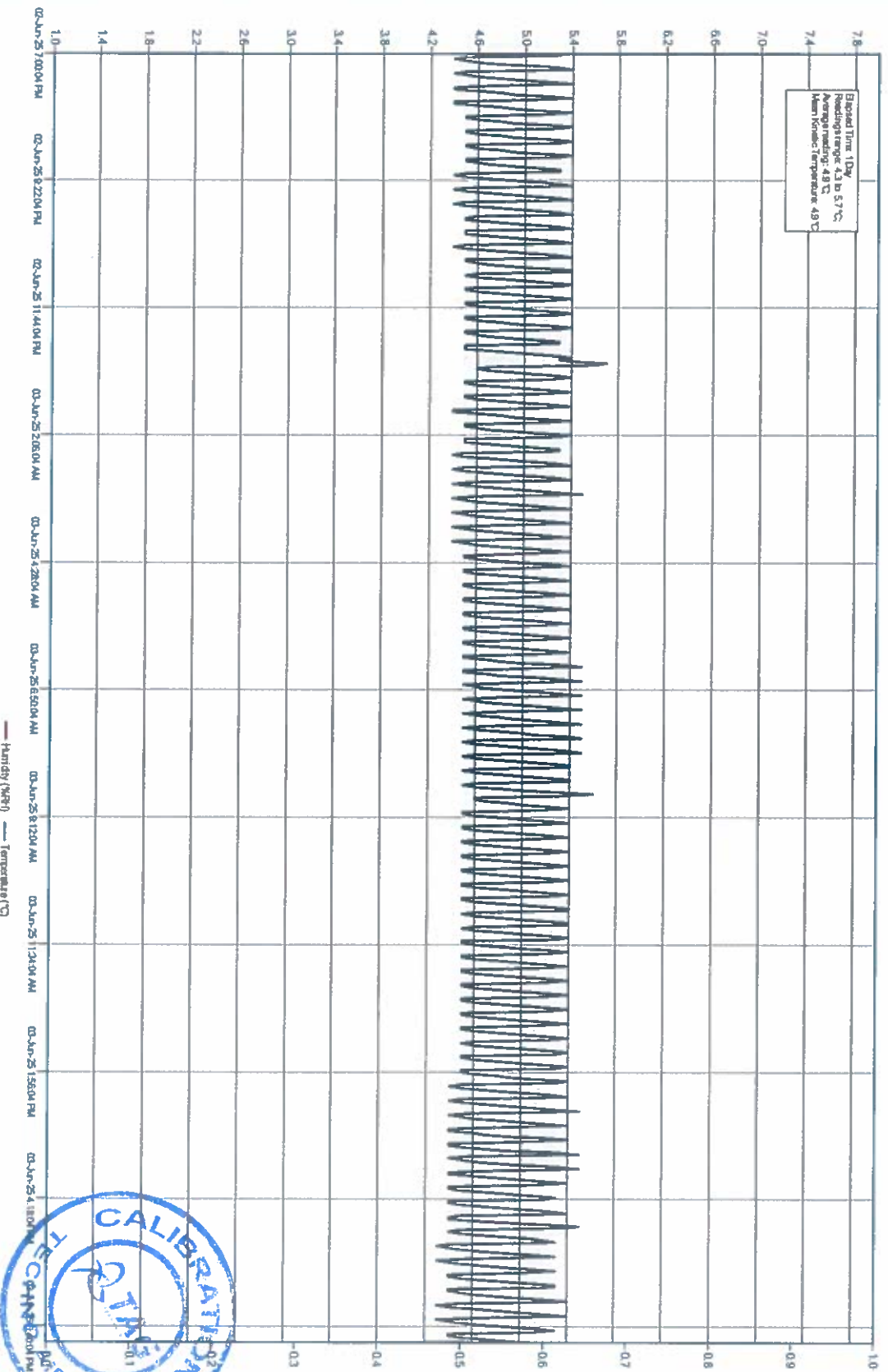


LogTag

Temp °C

HAXO-R 1010157523 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

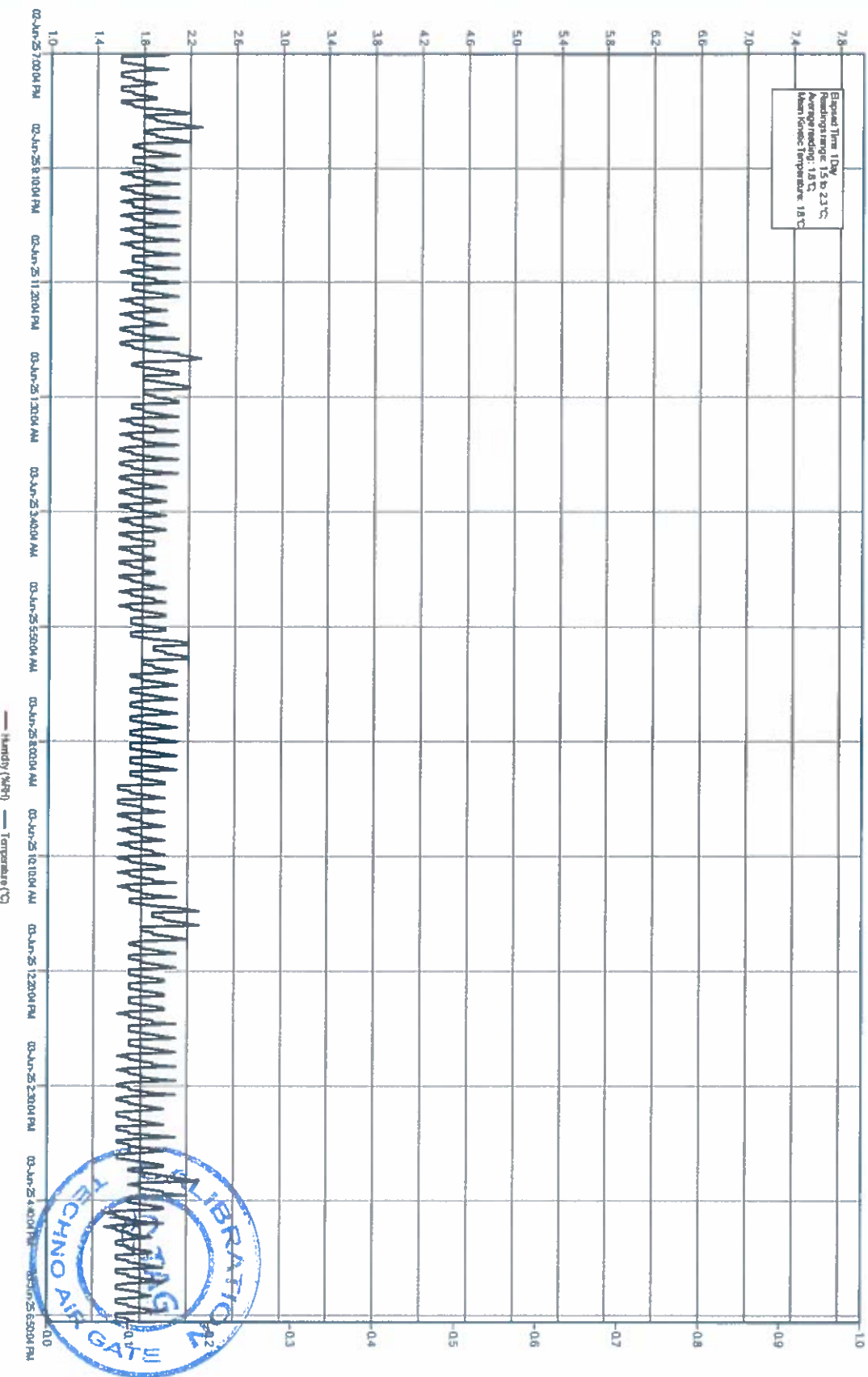


LogTag

Temp °C

HAXO-B-1010157521 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH



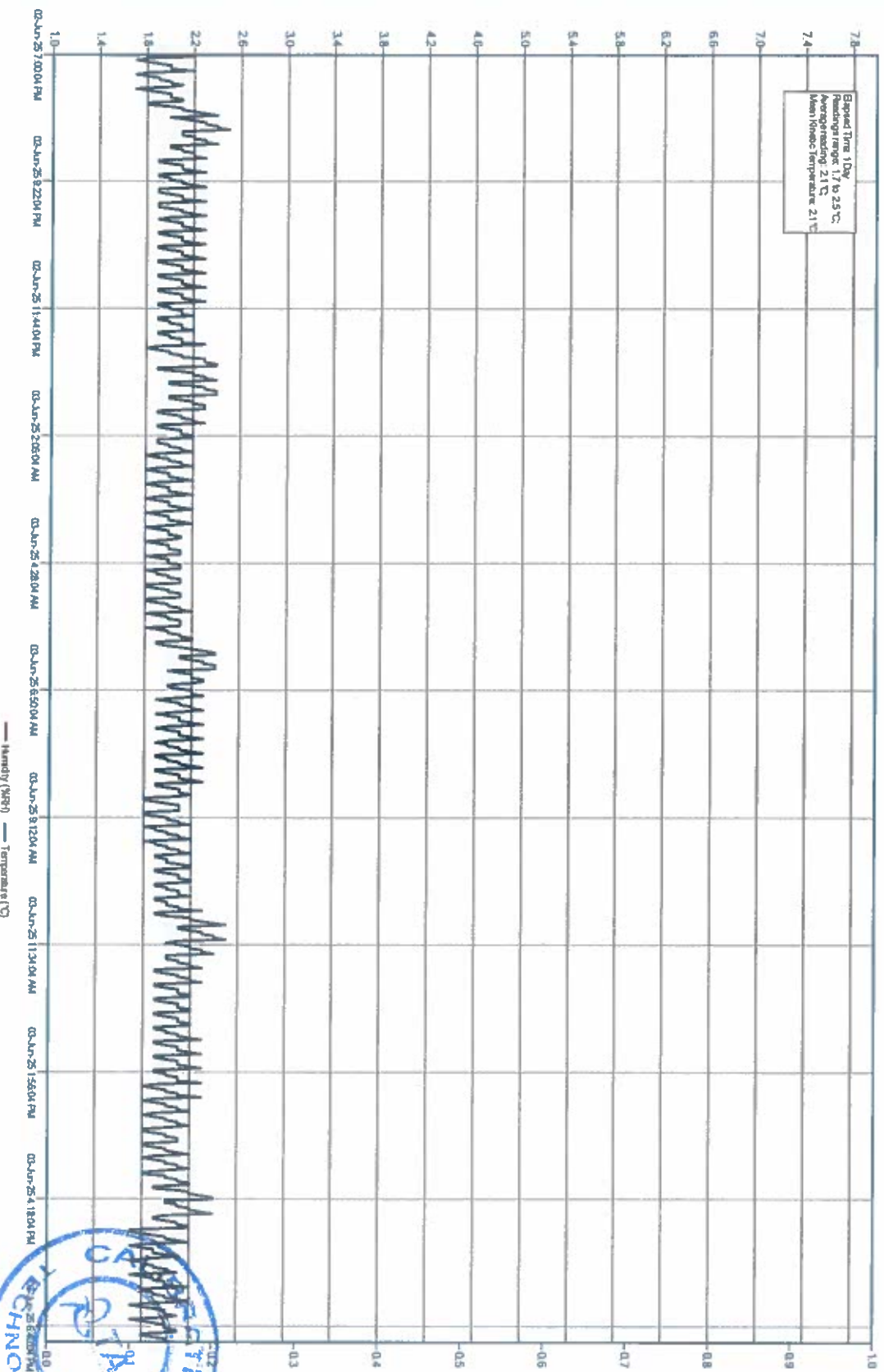
LogTag

Temp °C

HAYO-8-1010157516 Started 02-Jun-25, Finished 04-Jun-25

Humid %RH

Elapsed Time 1 Day
 Period from 02-Jun-25 7:00 to 25-Jun-25 7:00
 Averaging time 2.11°C
 Mean Office temperature 21.1°C

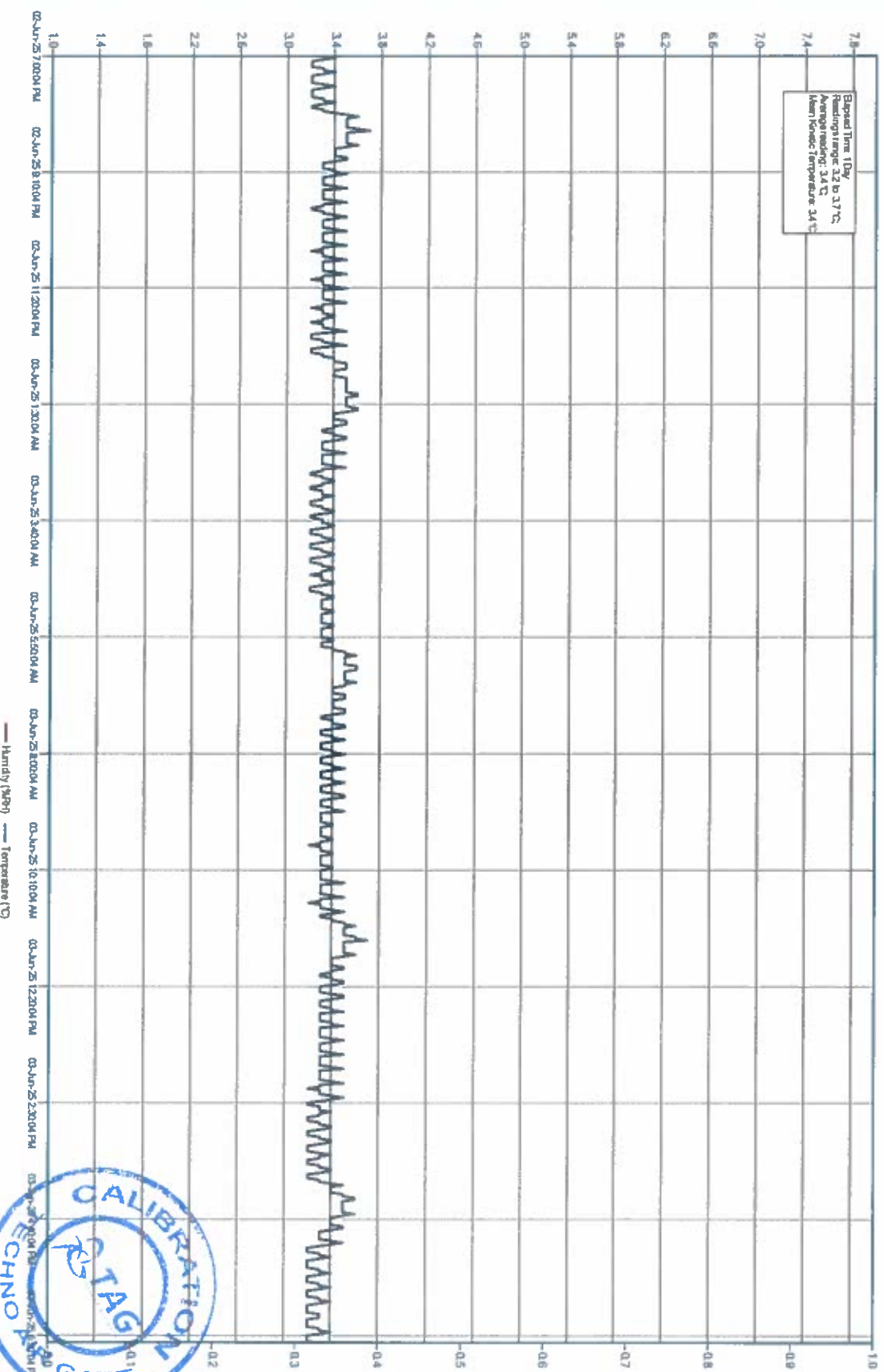


LogTag

Temp °C

HAYO-E-1010157511 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

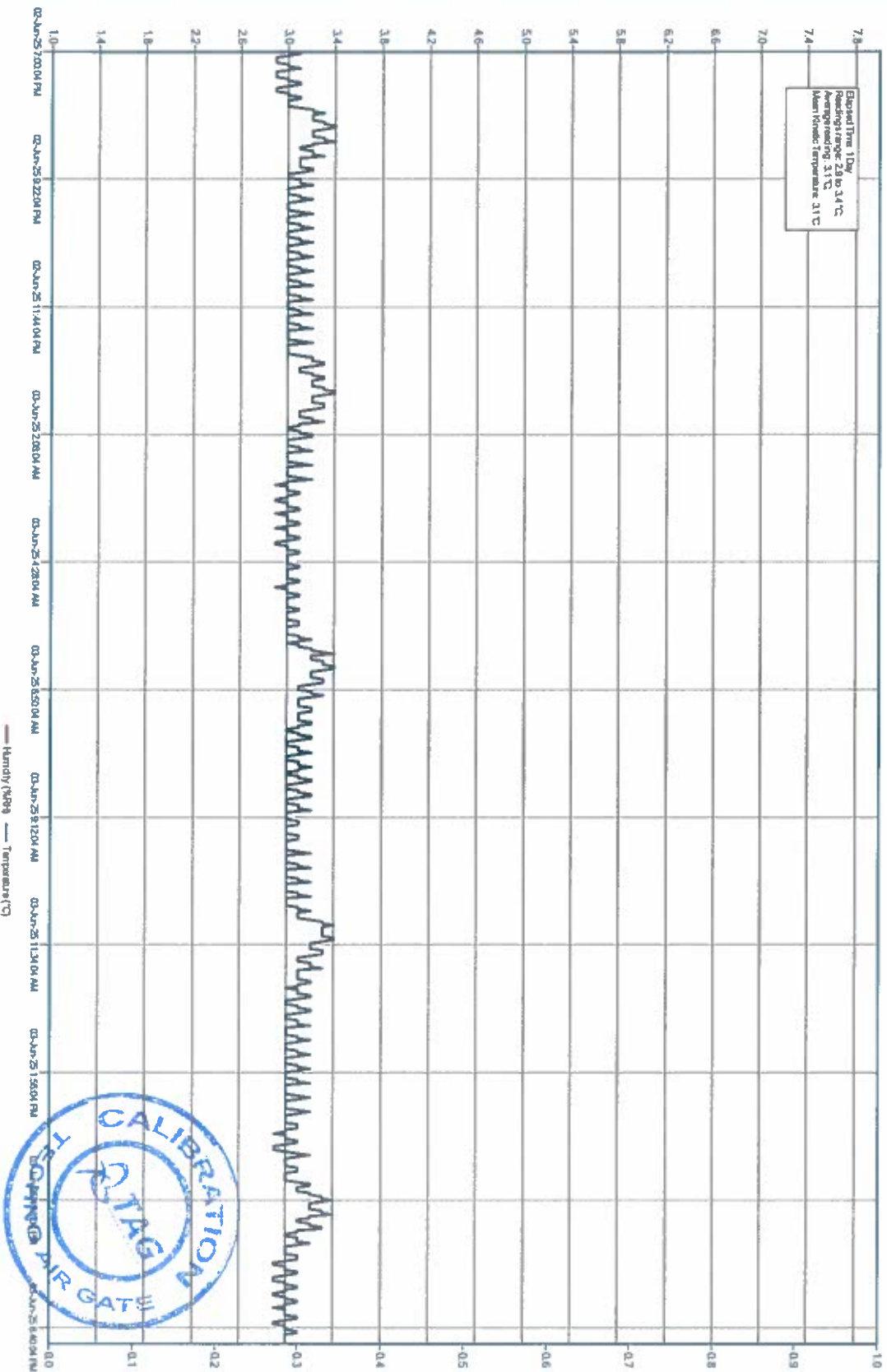


LogTag

Temp °C

HAXO-B-1010150014 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

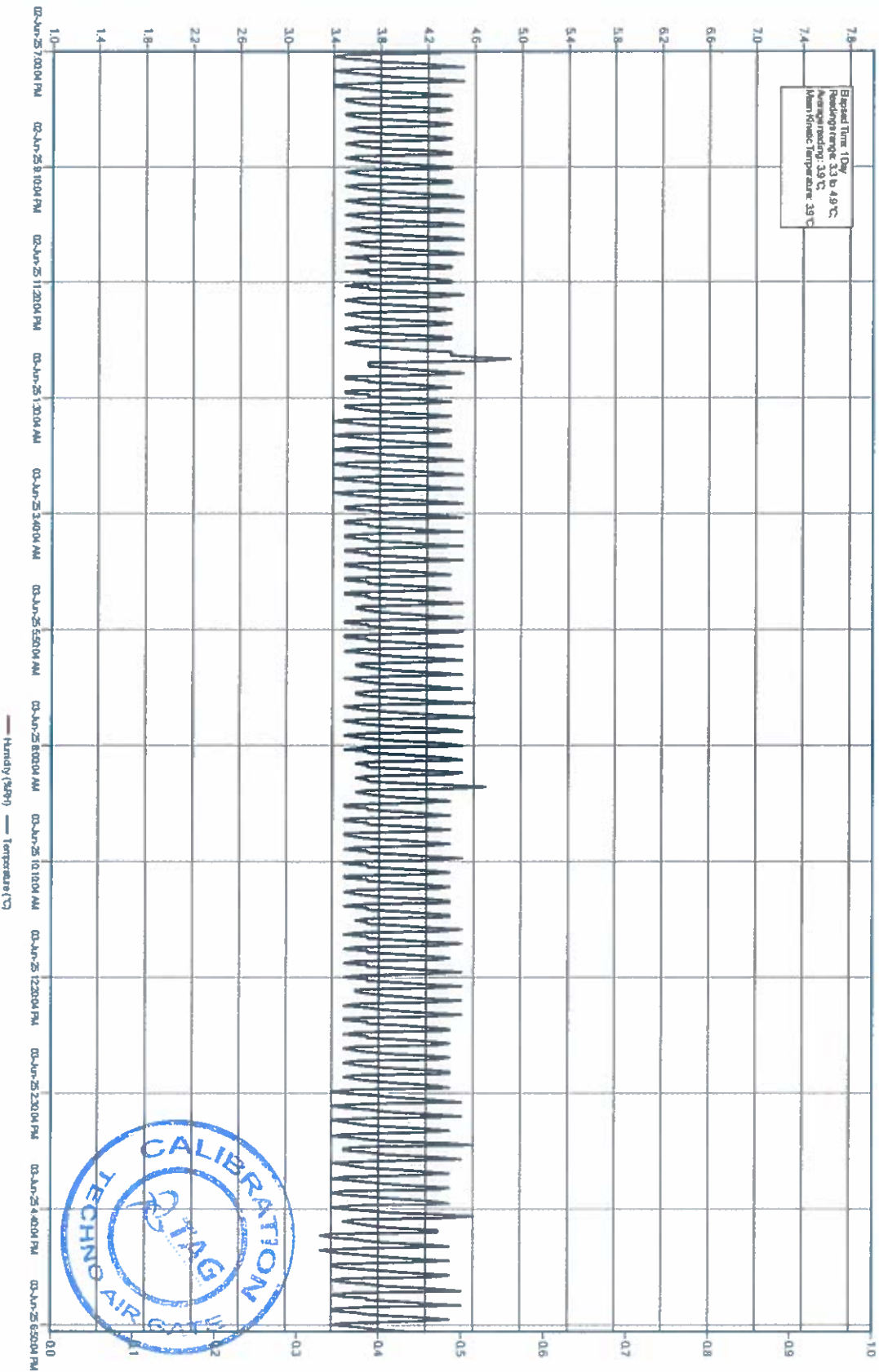


LogTag

Temp °C

HAYO-B: 1010149815 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

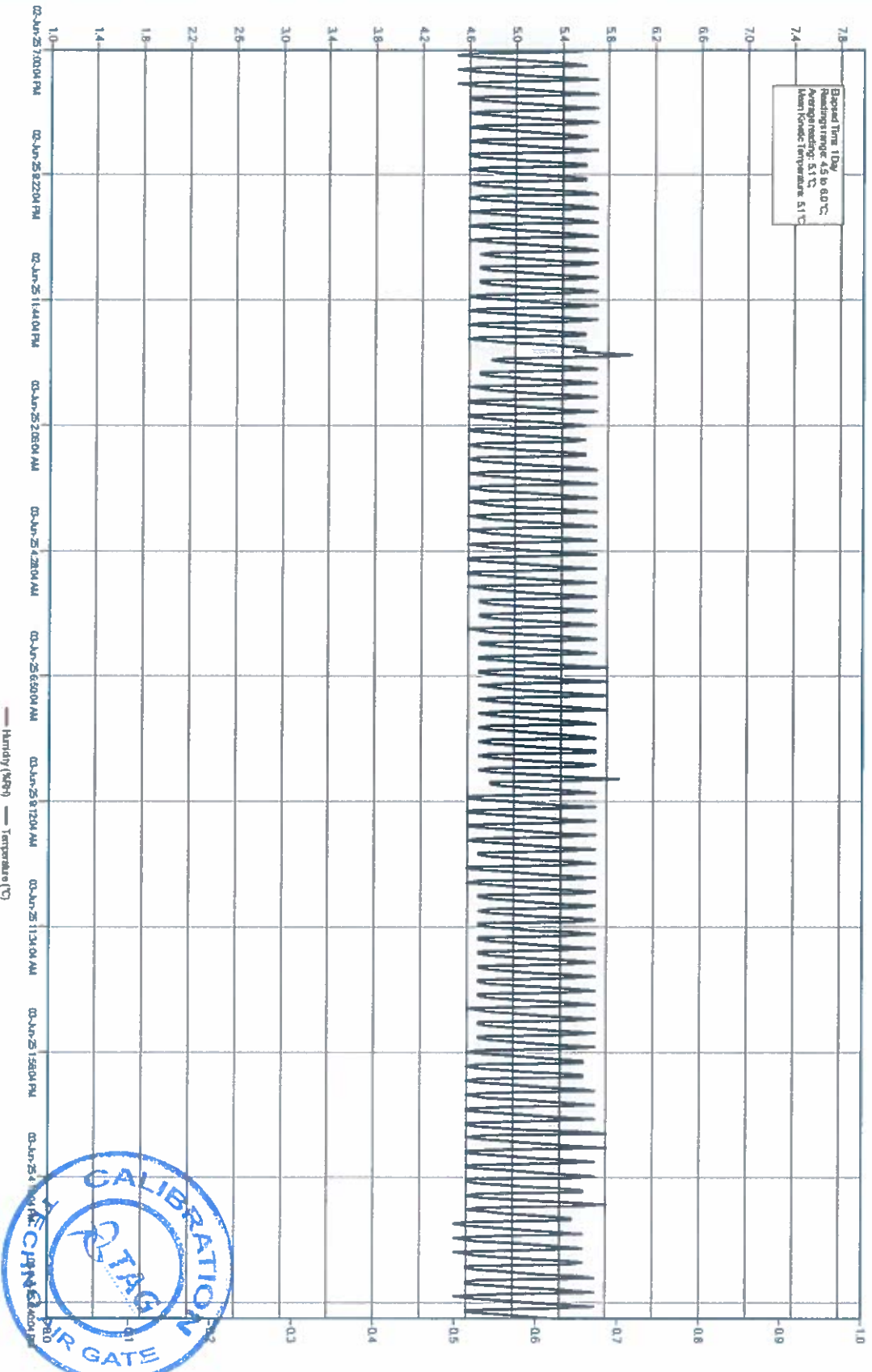


LogTag

Temp °C

HAYO-E-1010148394 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

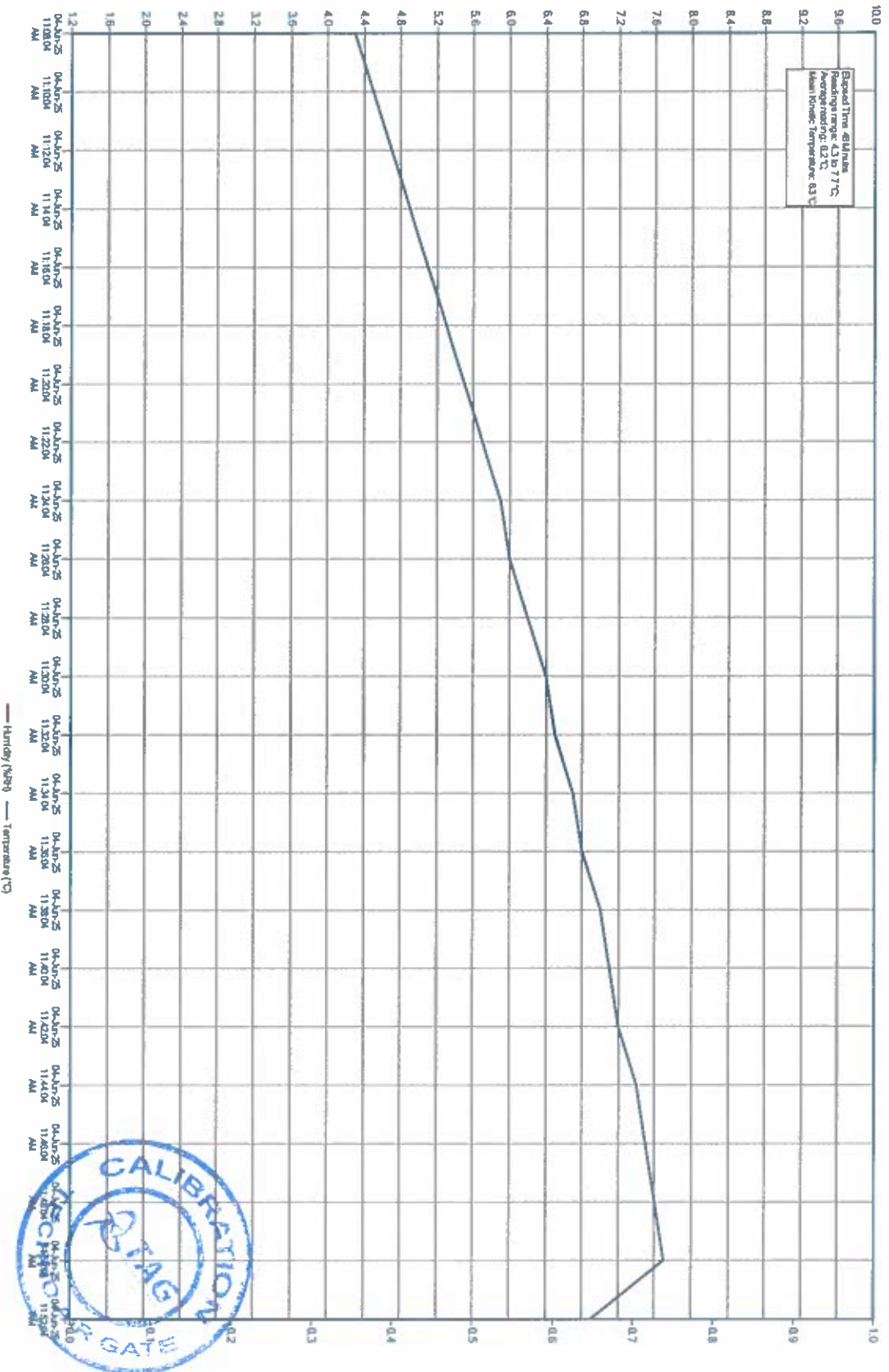
ATTACHMENTS

ATTACHMENTS 01.02.01.02

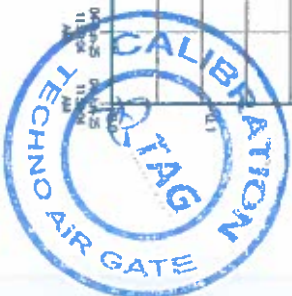
Power Failure Printouts



Hum 9504



Helm %RHs

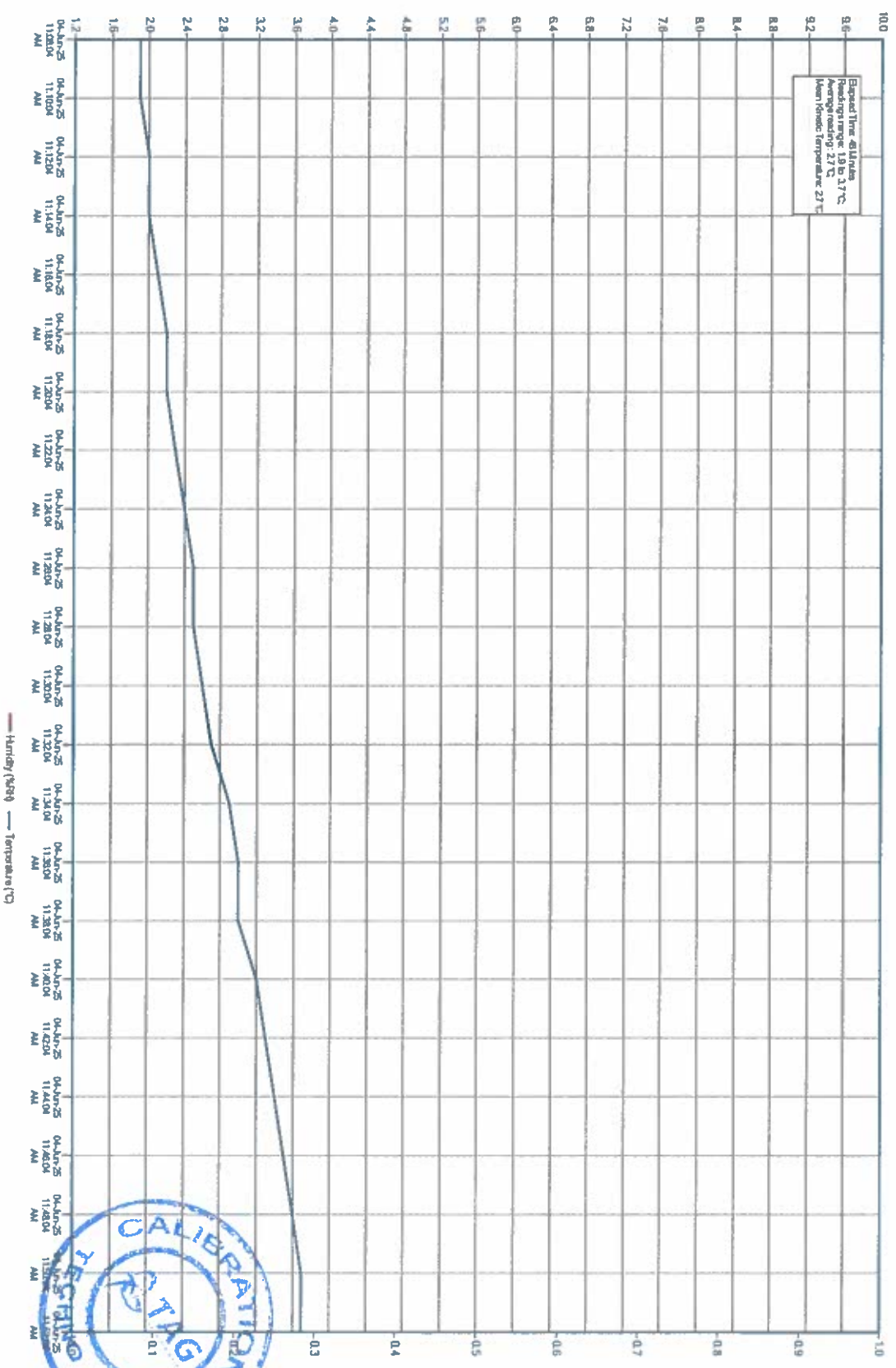


LogTag

Temp °C

HAXO-E 101015751 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

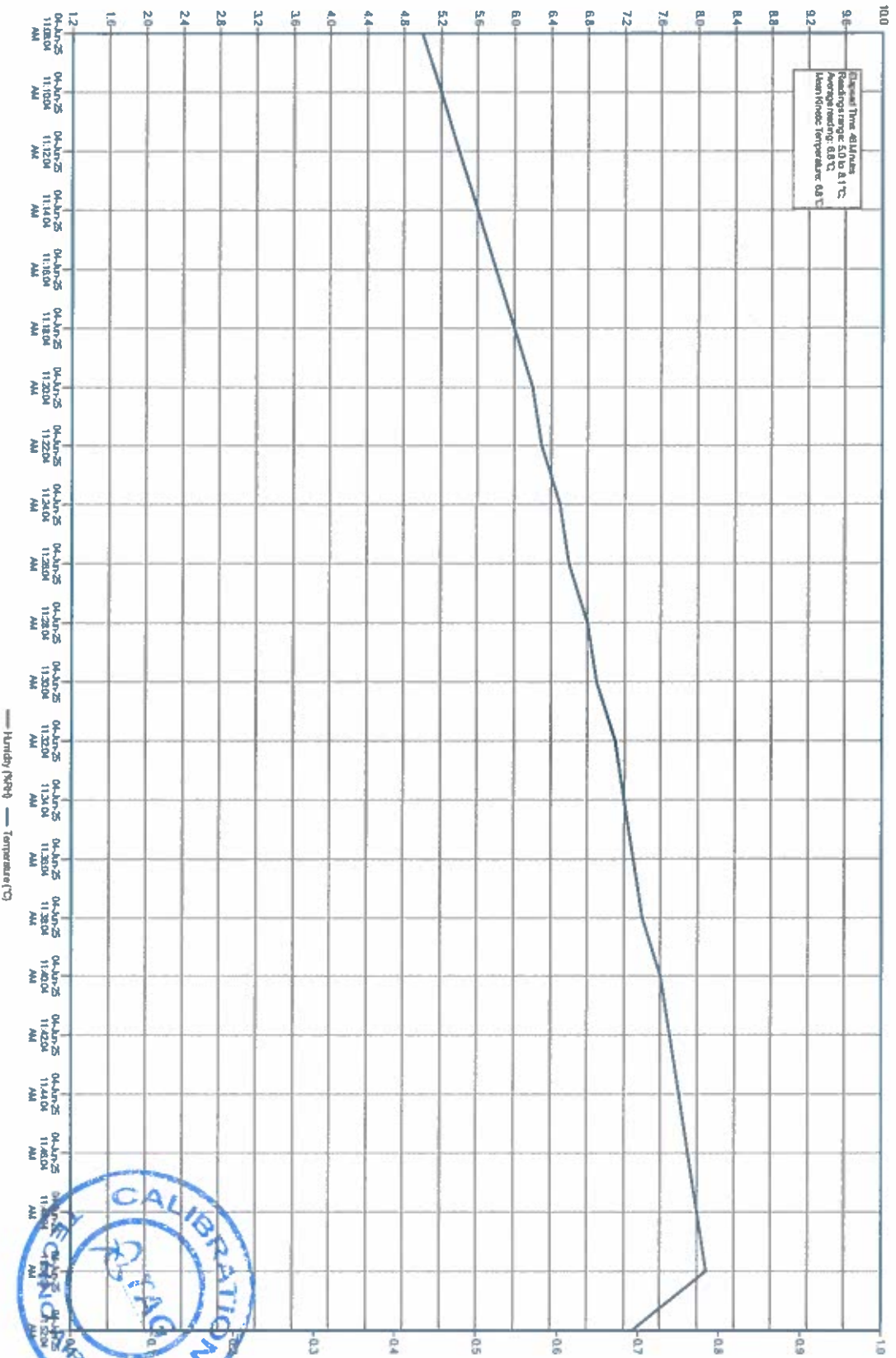


LogTag

Temp °C

HAXO-B-1010157523 Started 02-Jun-25, Finished 04-Jun-25

Humidity %RH

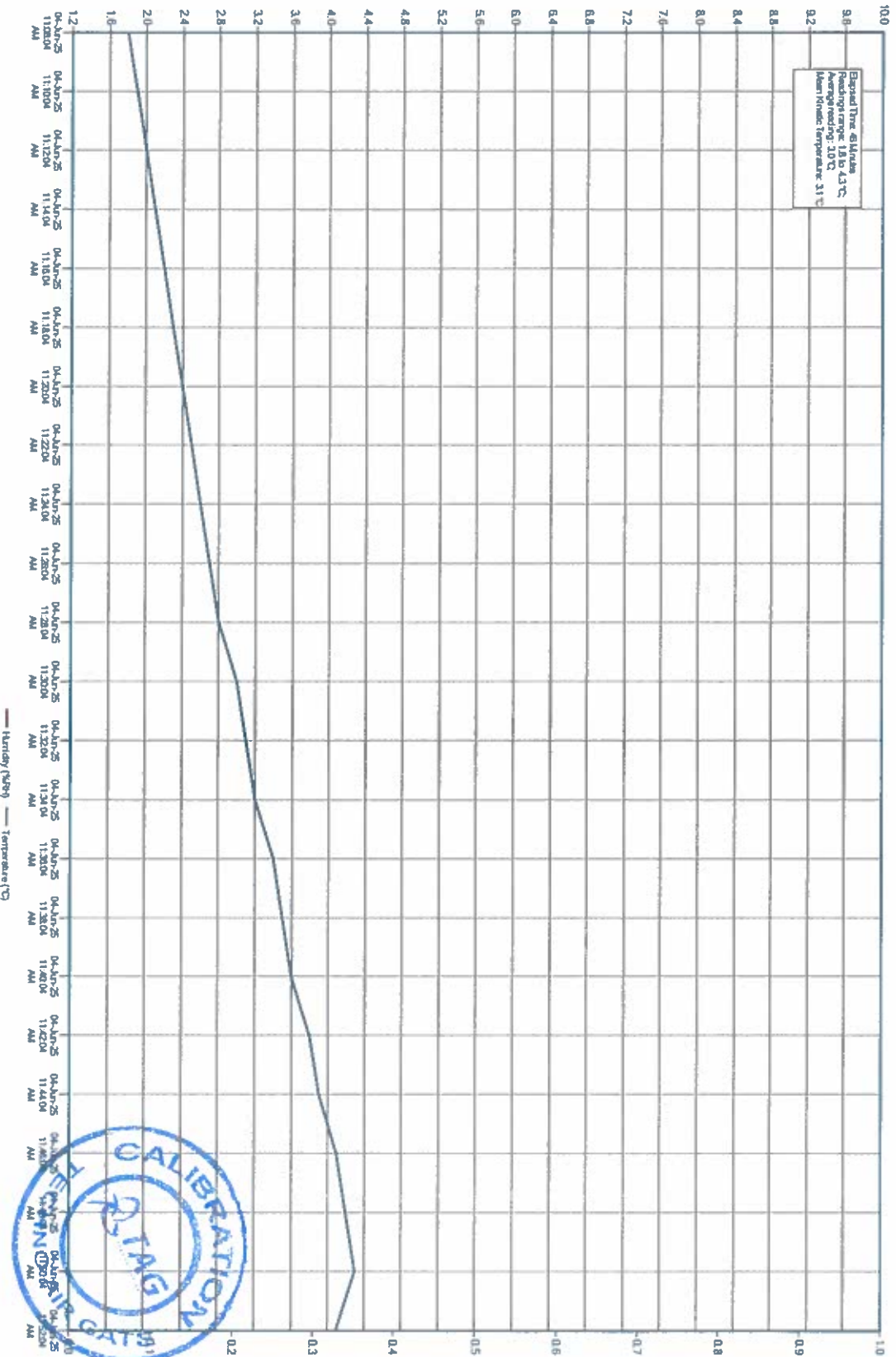


LogTag

Temp °C

HAYO-E-1010157521 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH



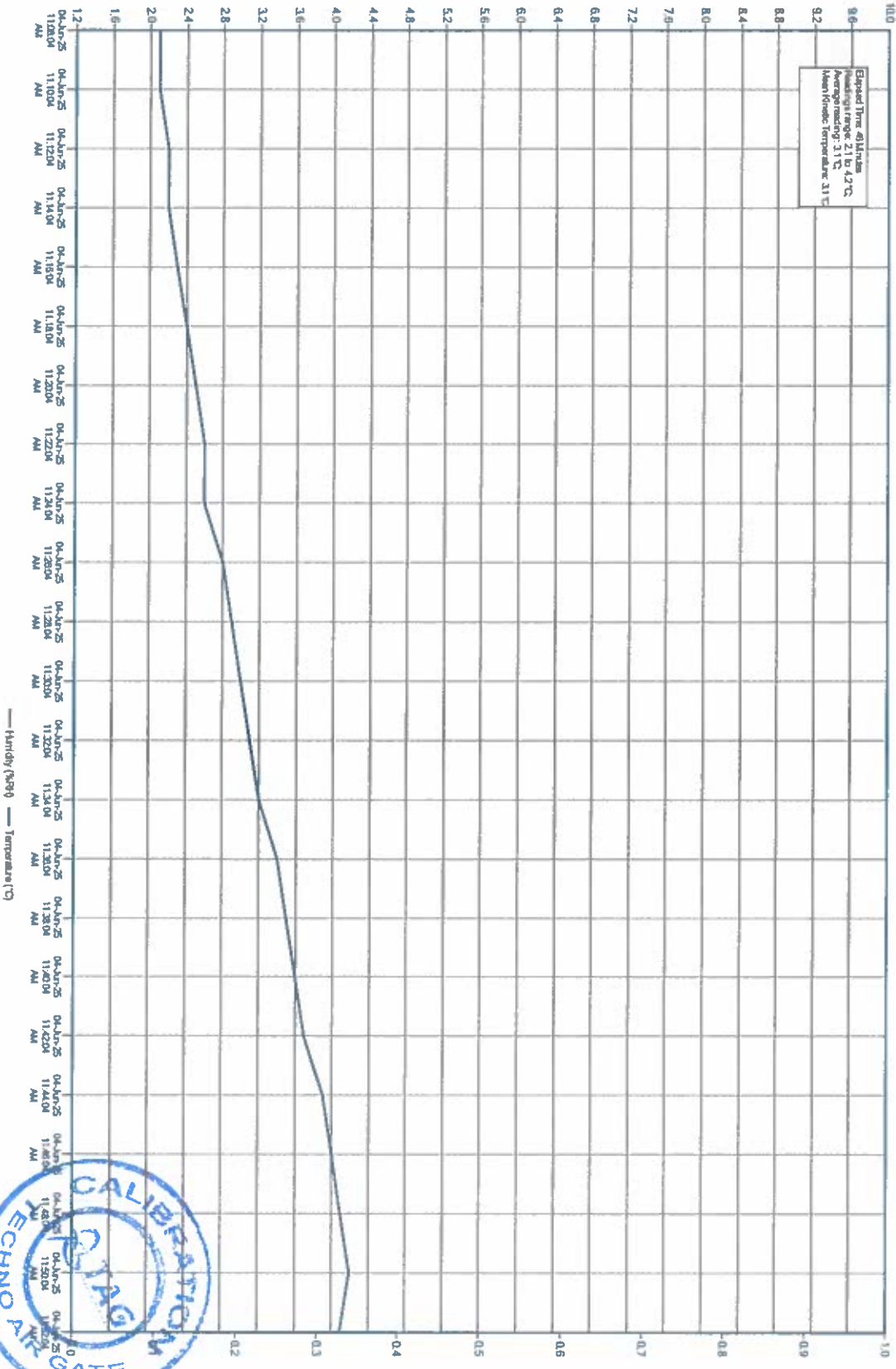
LogTag

Temp °C

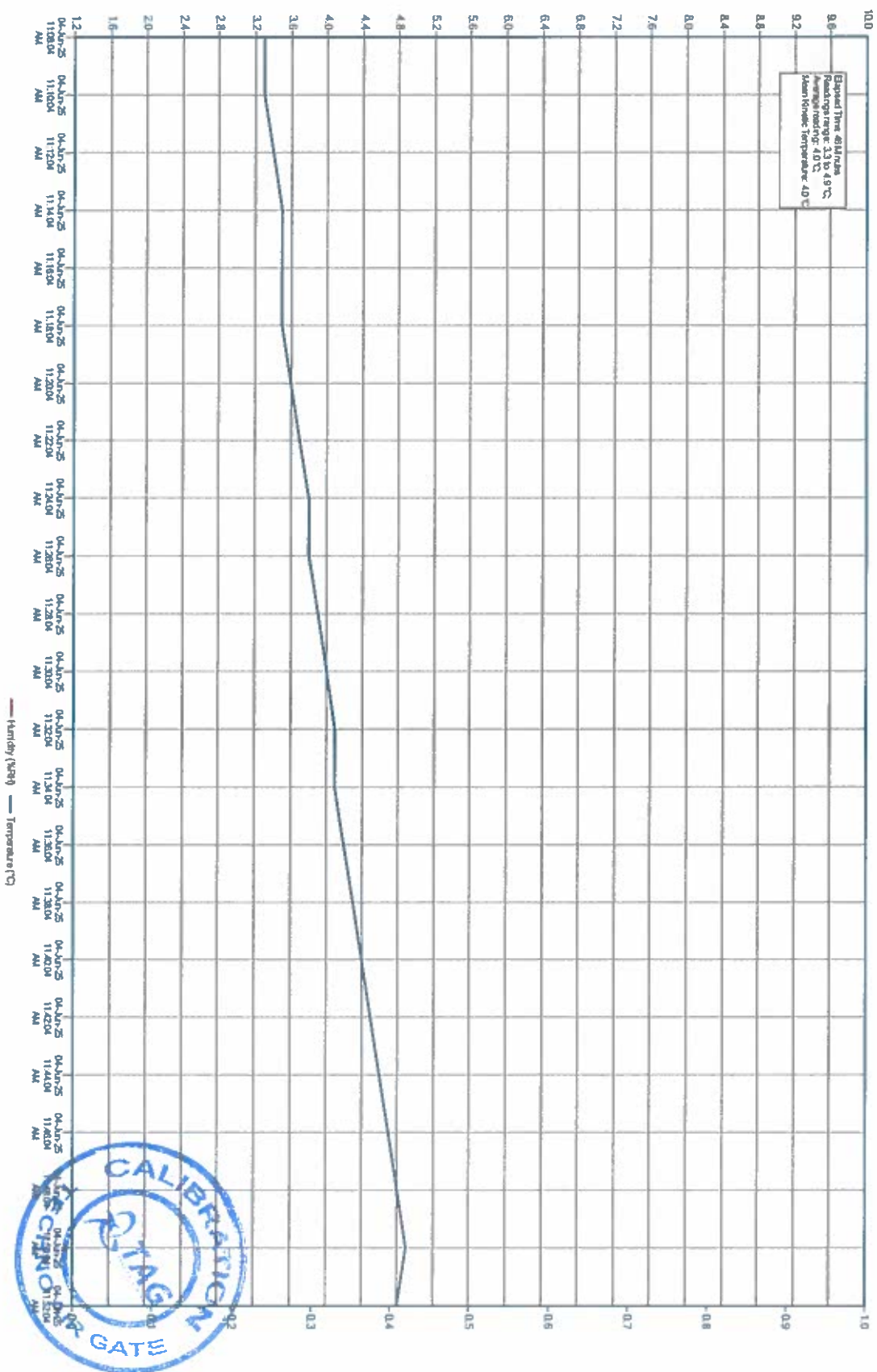
HAXO-E 1010157516 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

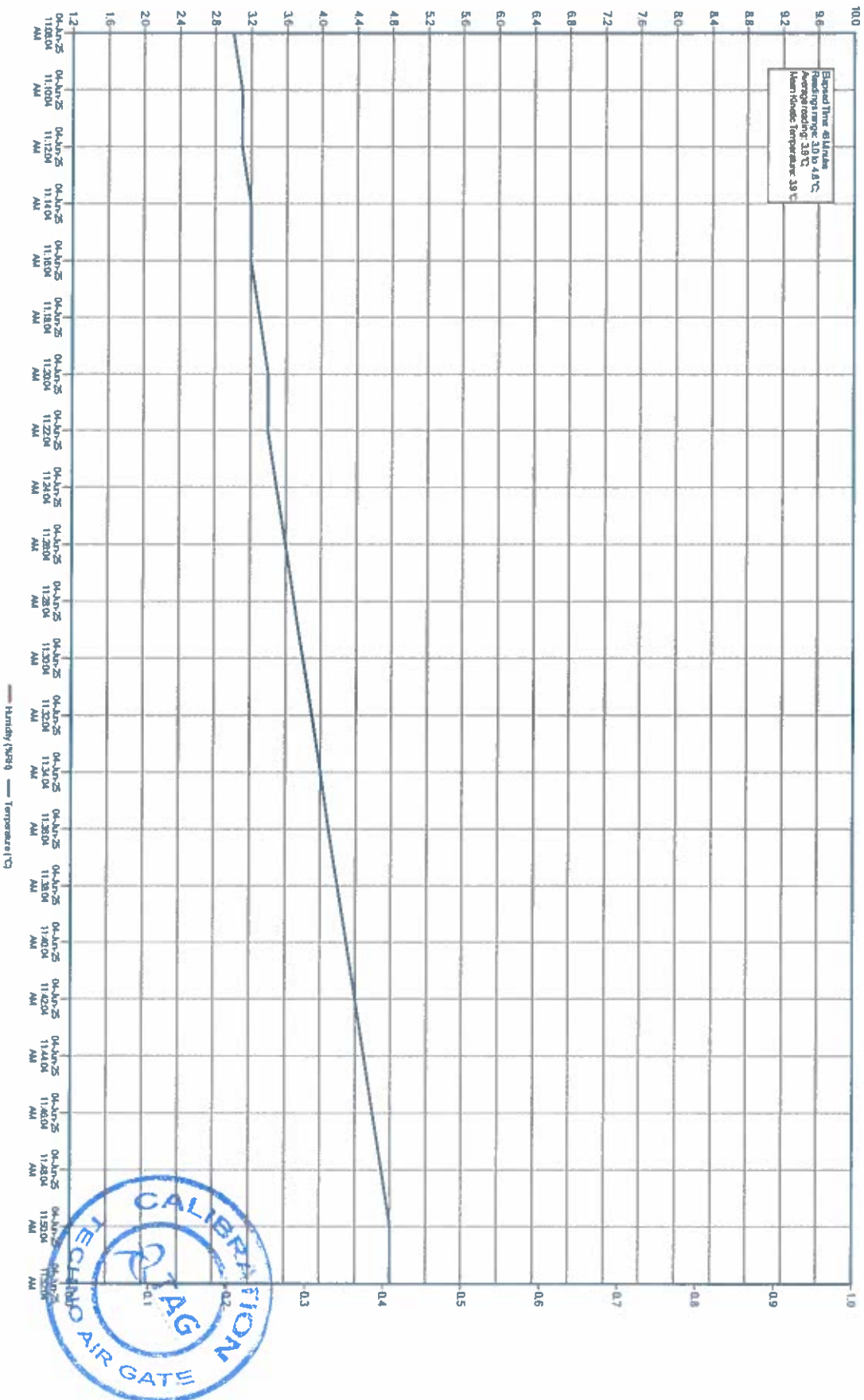
Elapsed Time 61 Minutes
Average Temp: 2.1 to 4.2 °C
Average Hum: 3.1 %
Max Min Temp: 4.2 to 2.1 °C
Max Min Hum: 3.1 to 3.1 %



Humidity



Hum %RH

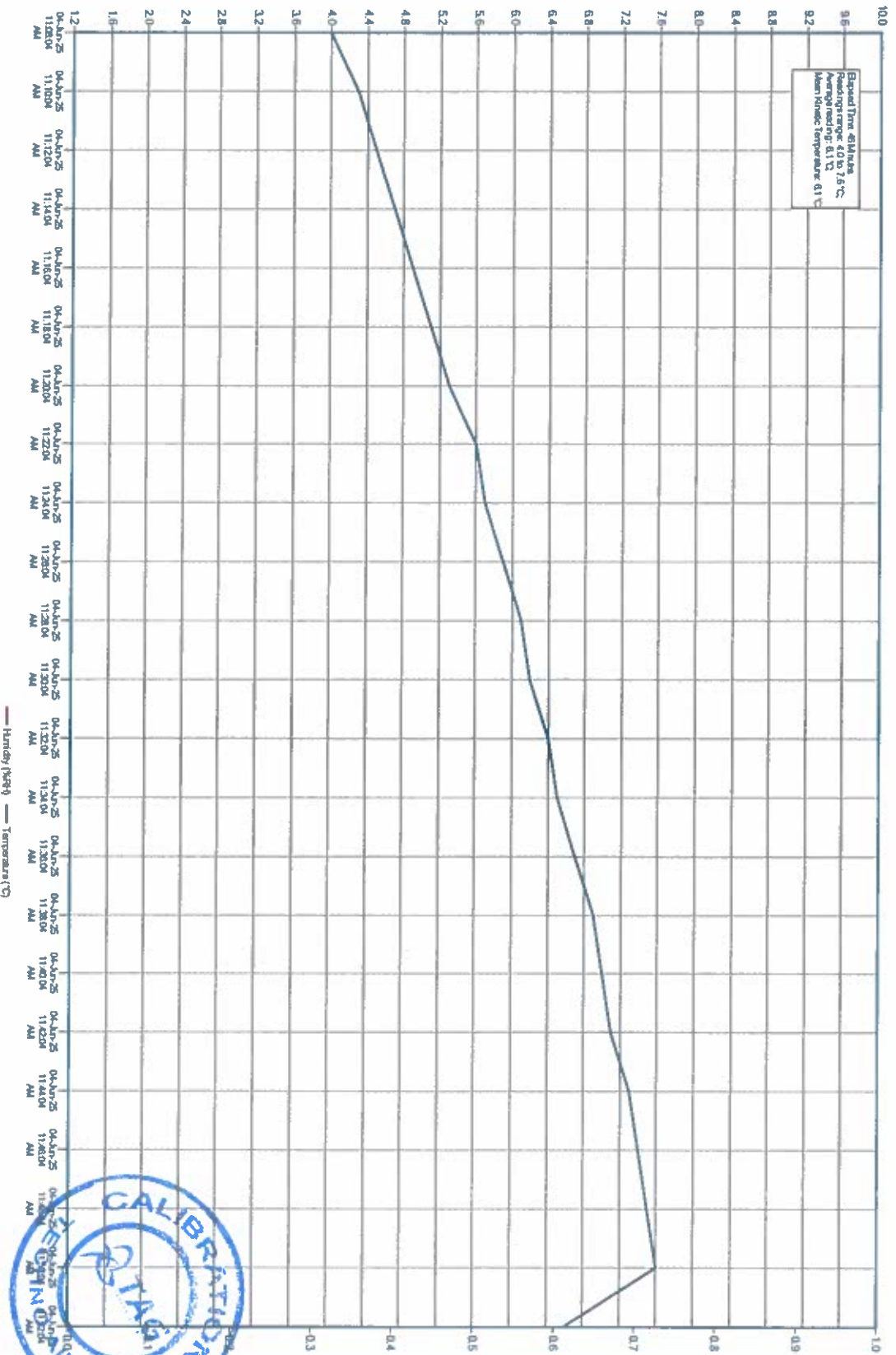


LogTag

Temp °C

HAXO-E-1010149815 Started 02-Jun-25, Finished 04-Jun-25

Humidity %RH

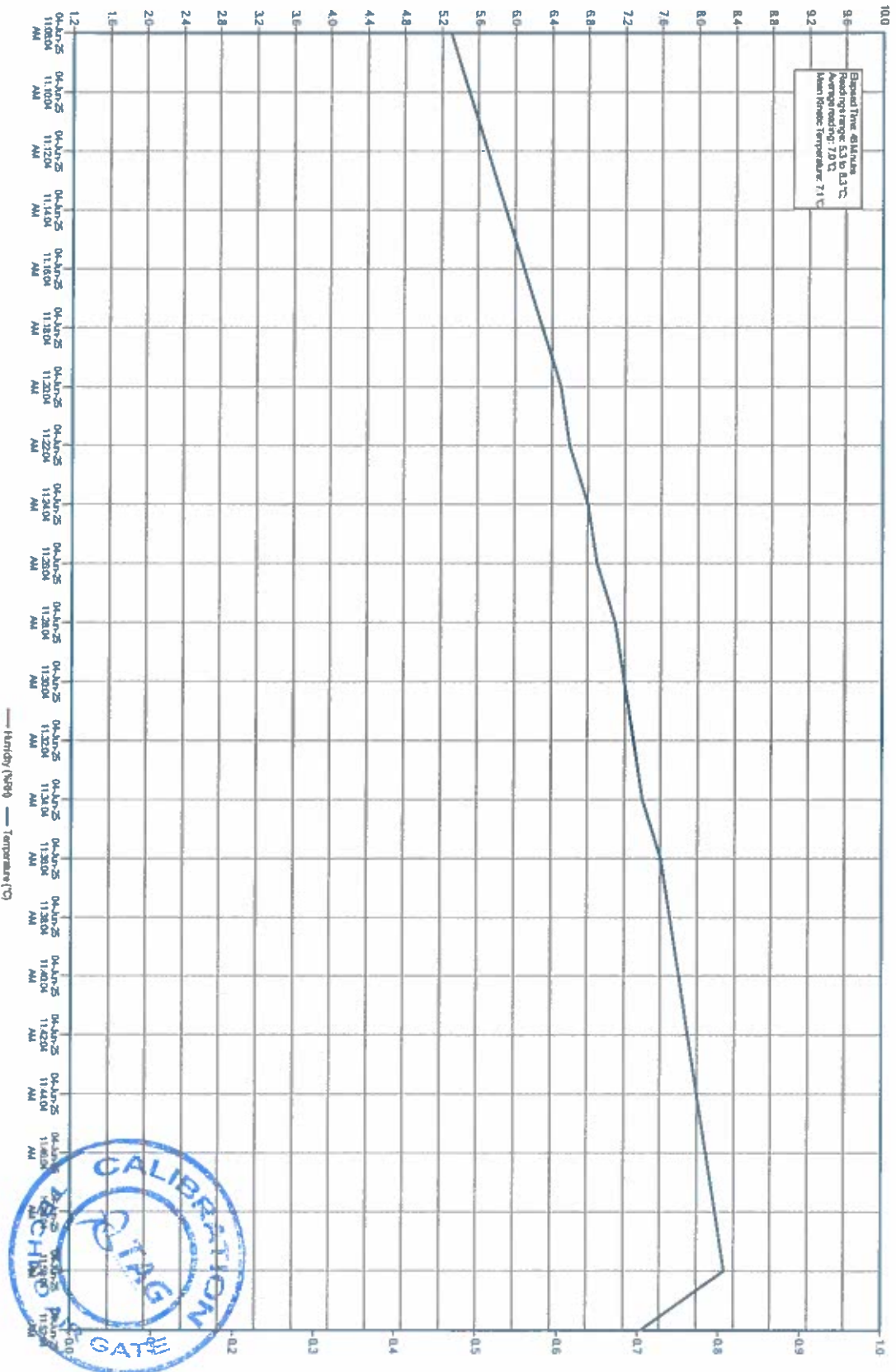


LogTag

Temp °C

HAYO-B-1010148394 Started 02-Jun-25, Finished 04-Jun-25

Humid %RH

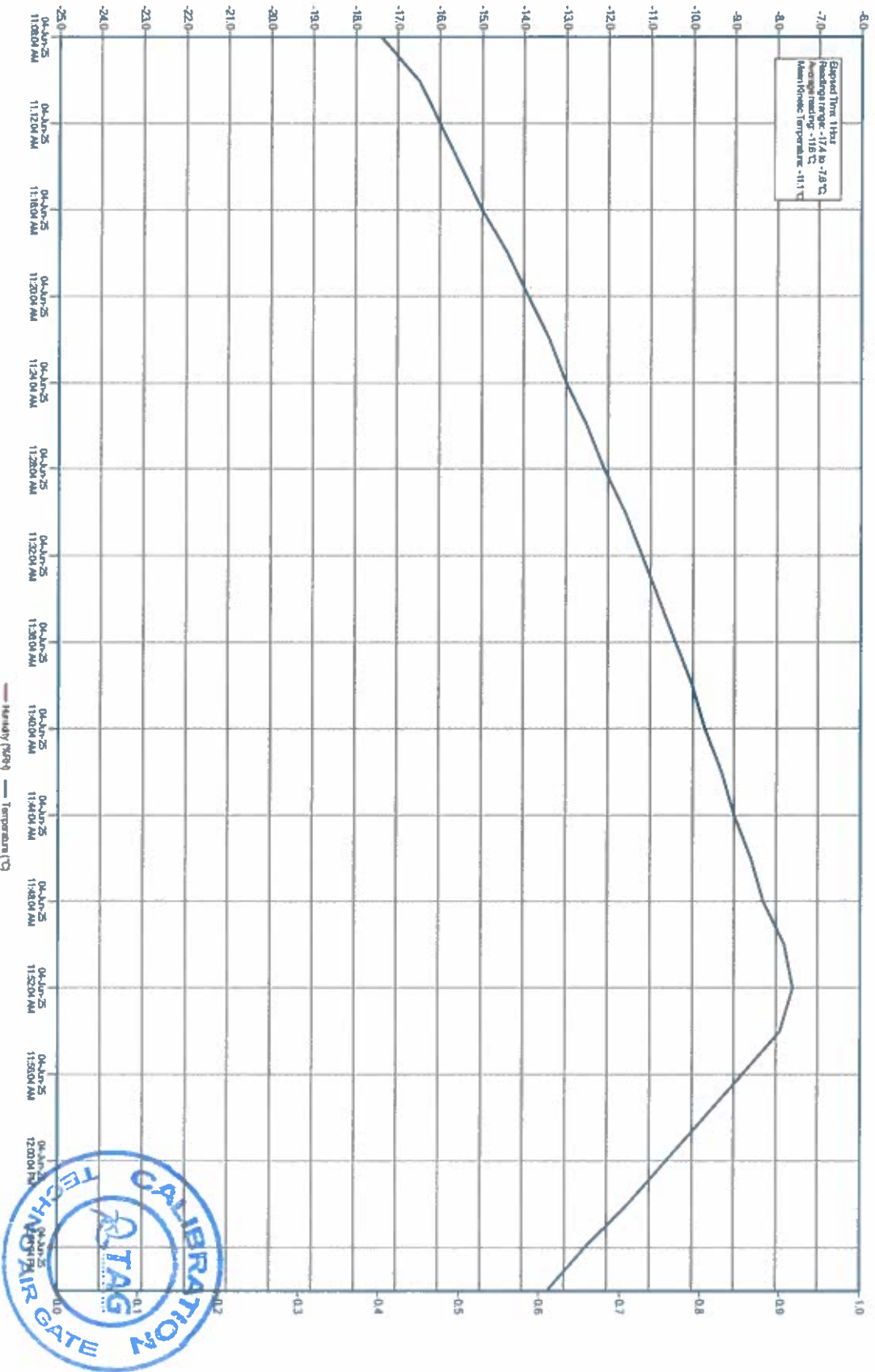


LogTag

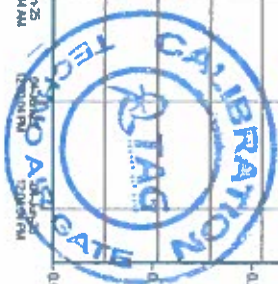
Temp °C

HAXO-B-1010161113 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH



Human %BPH

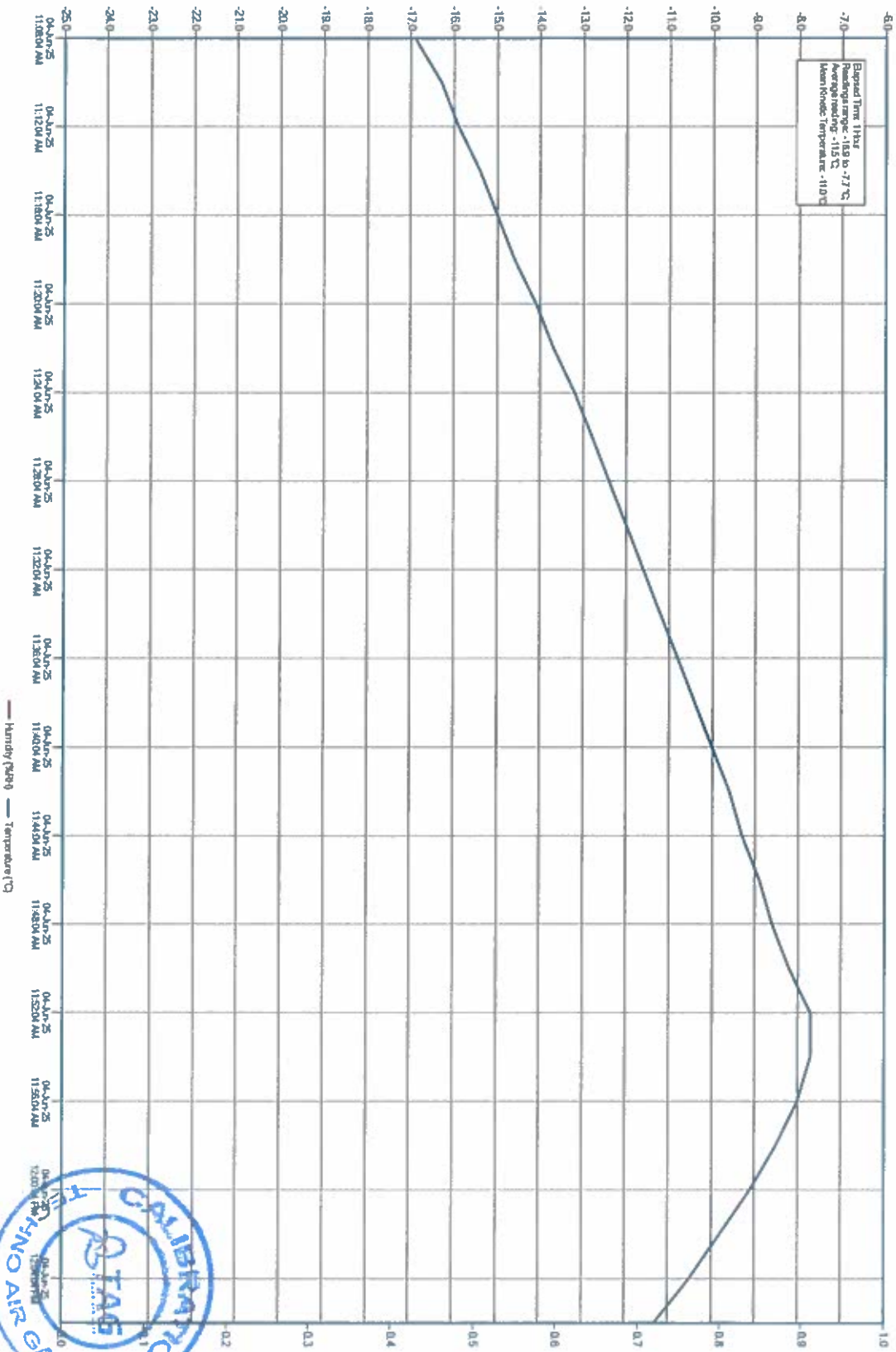


LogTag

Temp °C

HAXO-B: 1010157517 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

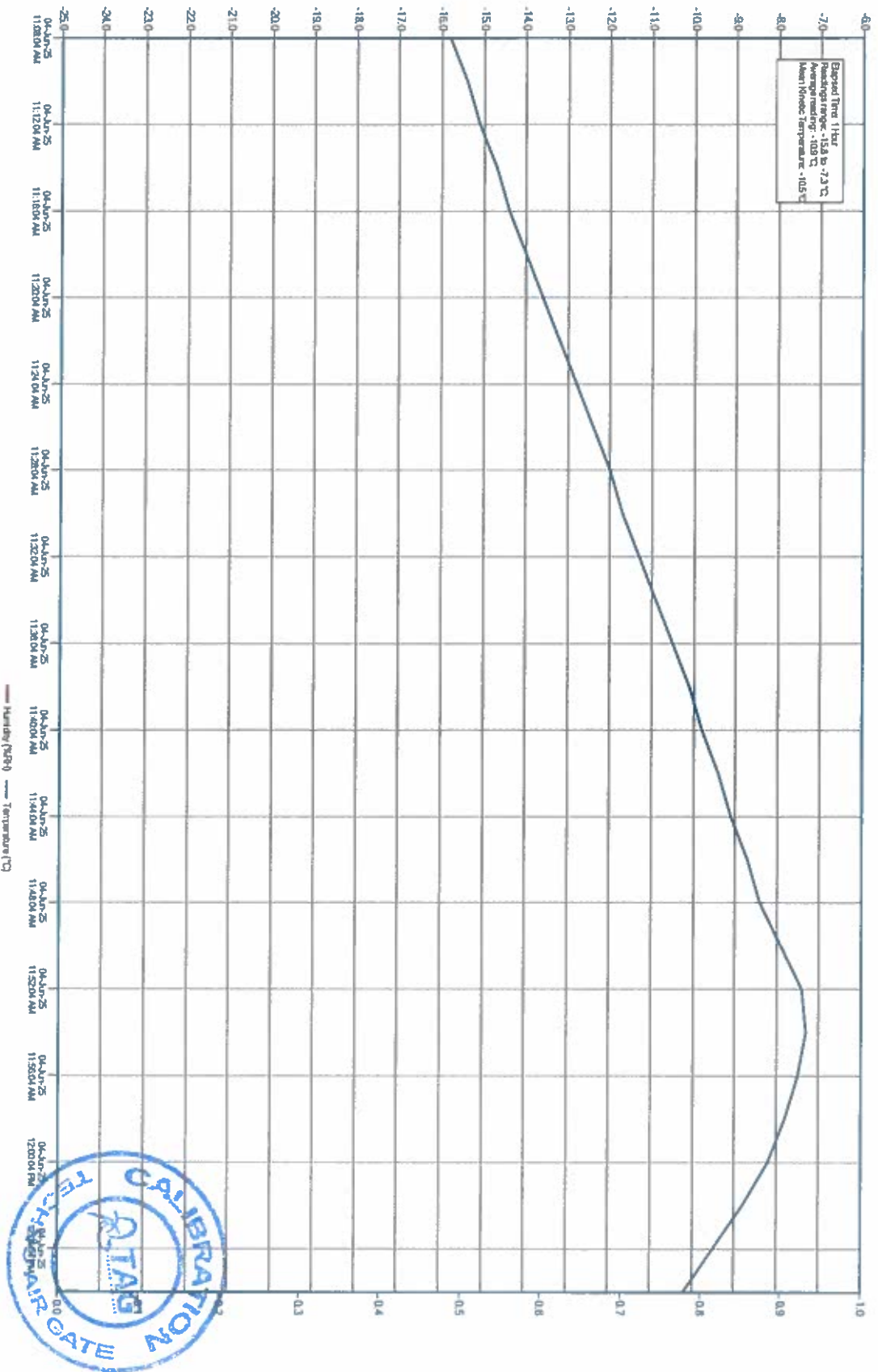


LogTag

Temp °C

HAXO-8: 1010150019 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

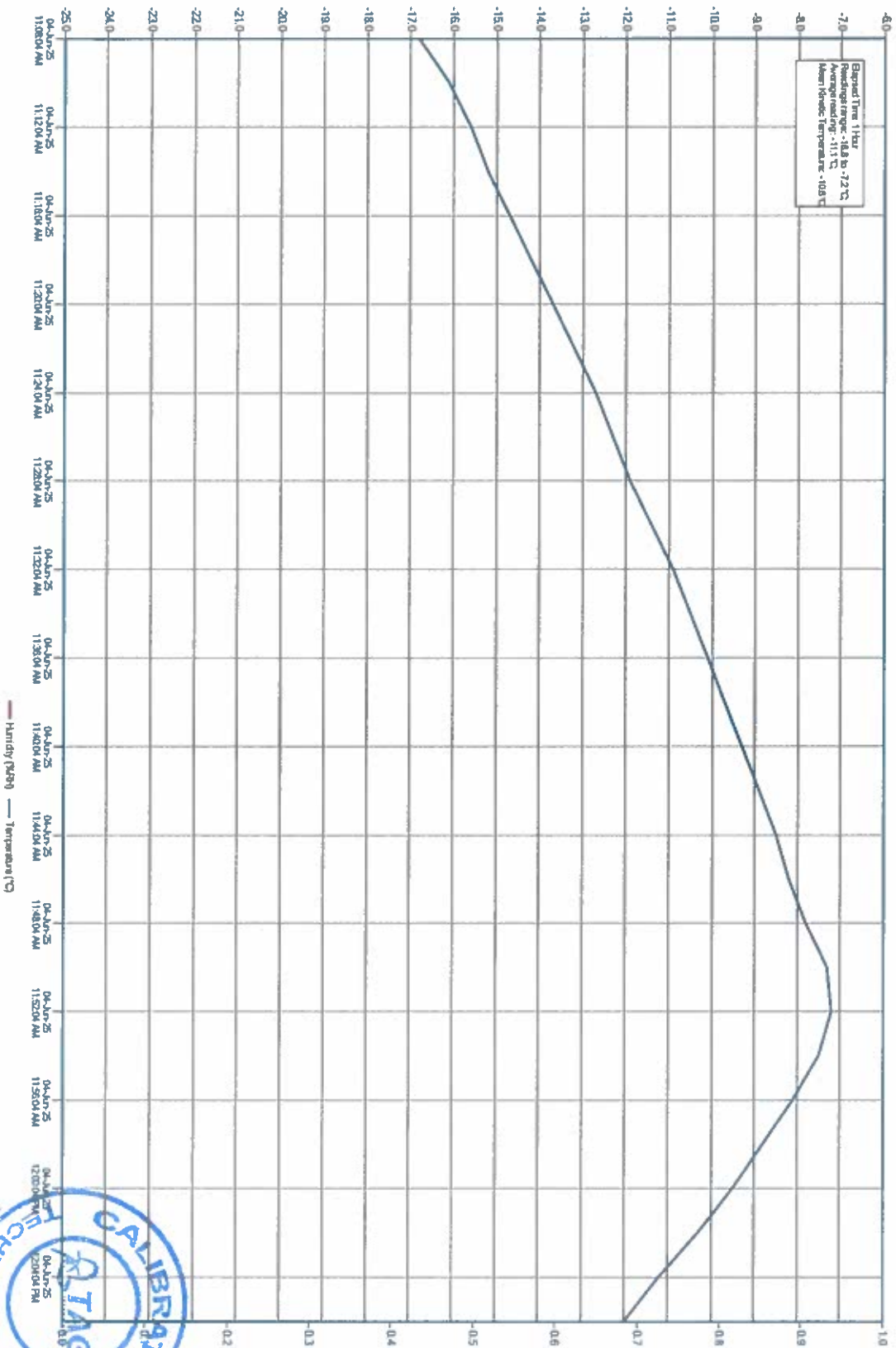


LogTag

Temp °C

HAXO-B-1010150017 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

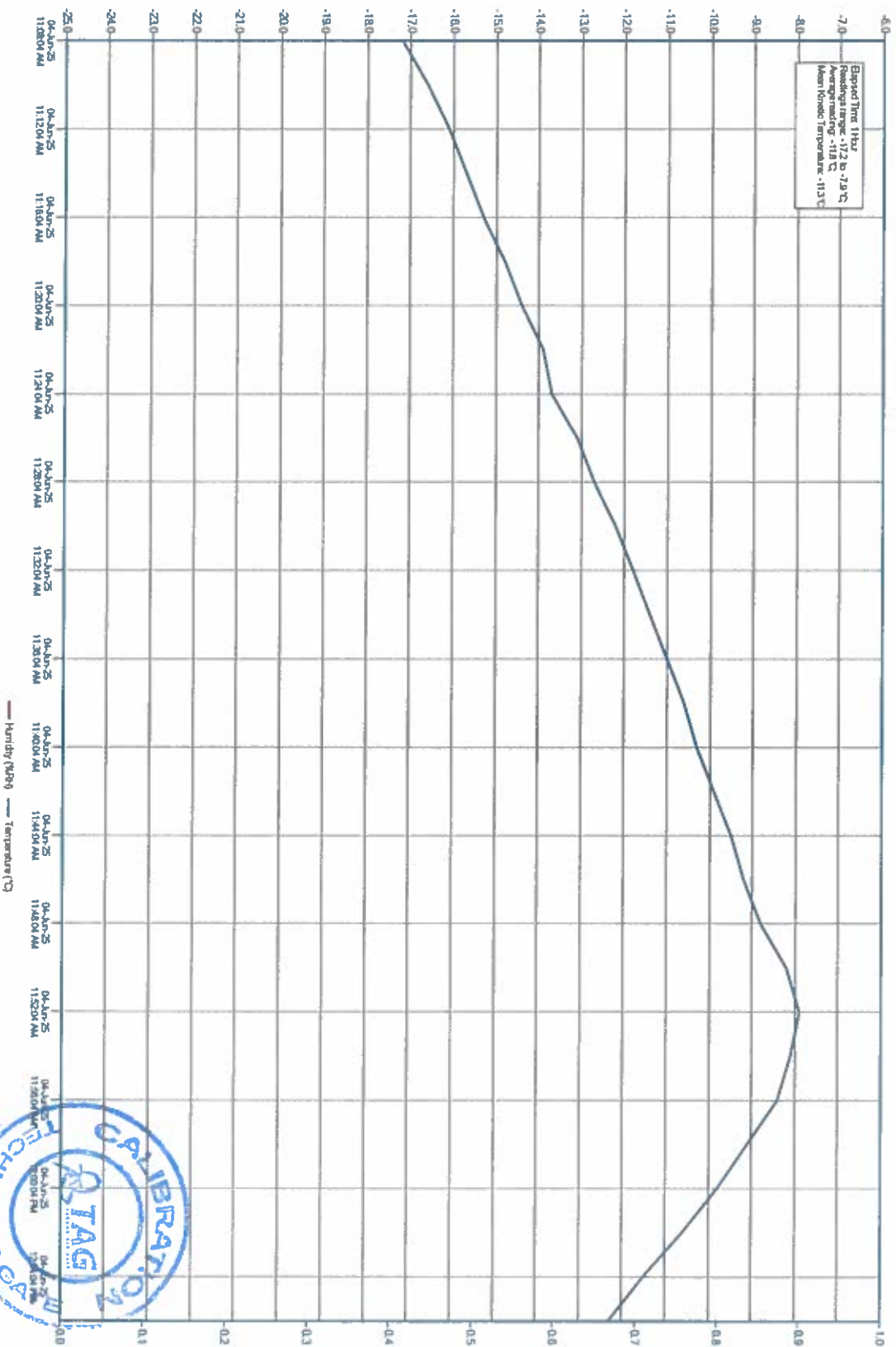


LogTag

Temp °C

HAXO-B-1010150000 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

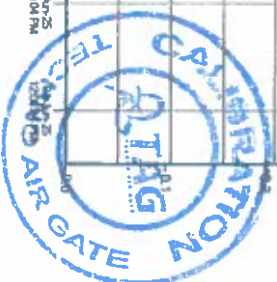
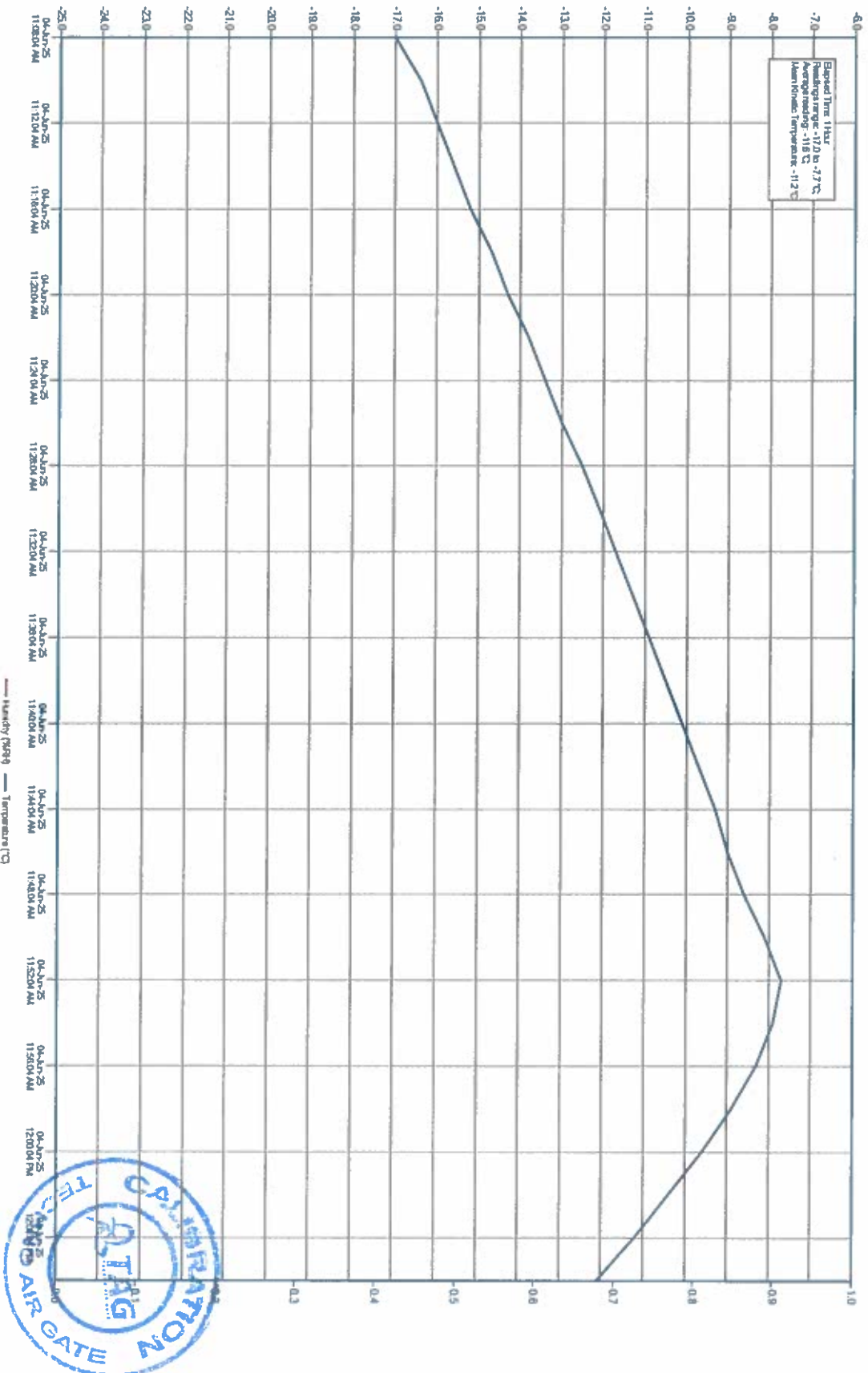


LogTag

Temp °C

HAYO-B: 1010149999 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

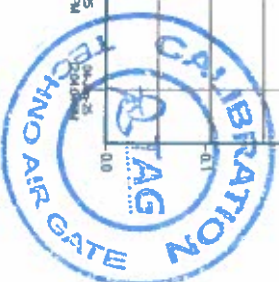
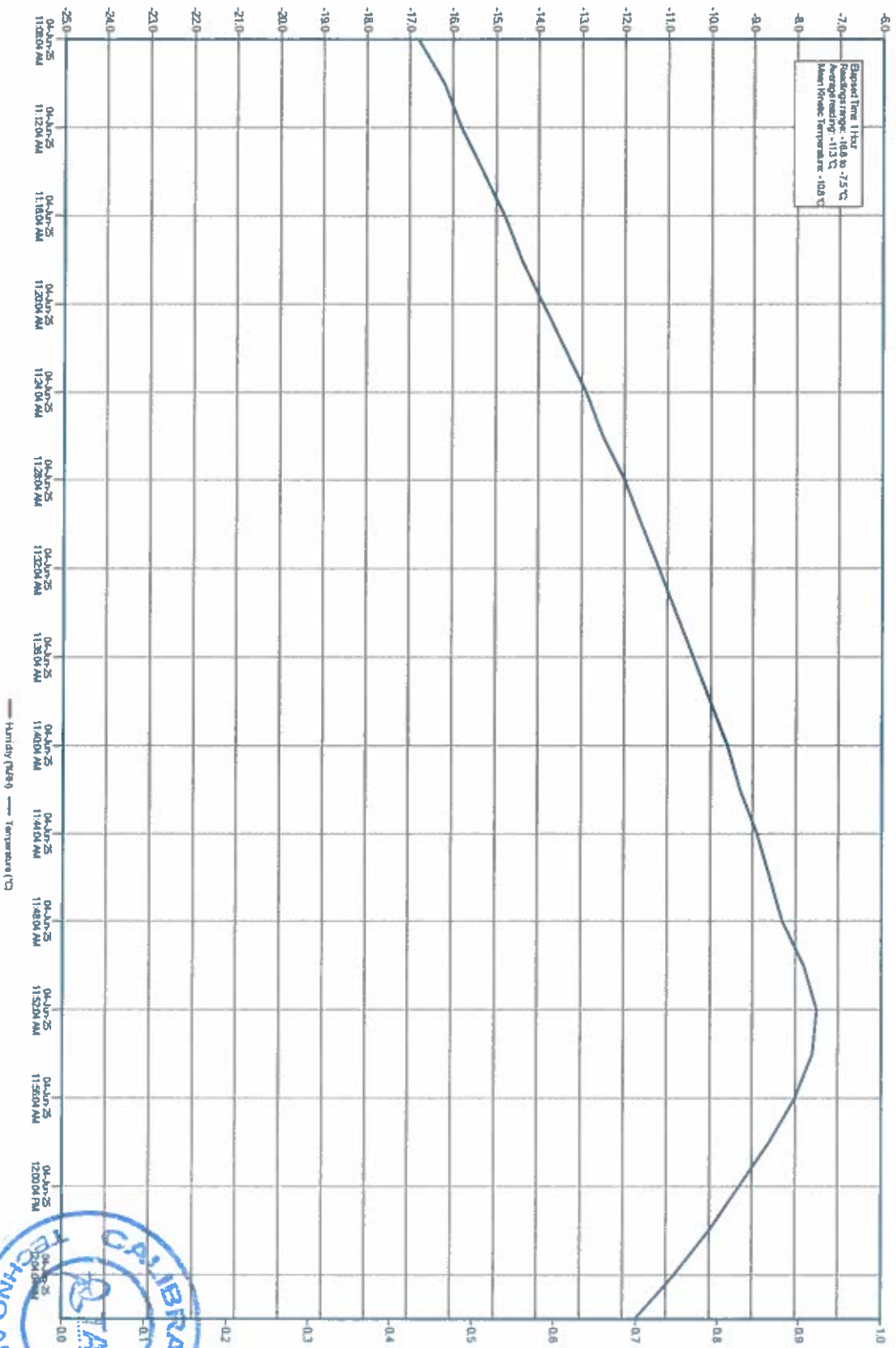


LogTag

Temp °C

HAXC-B-1010149991 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

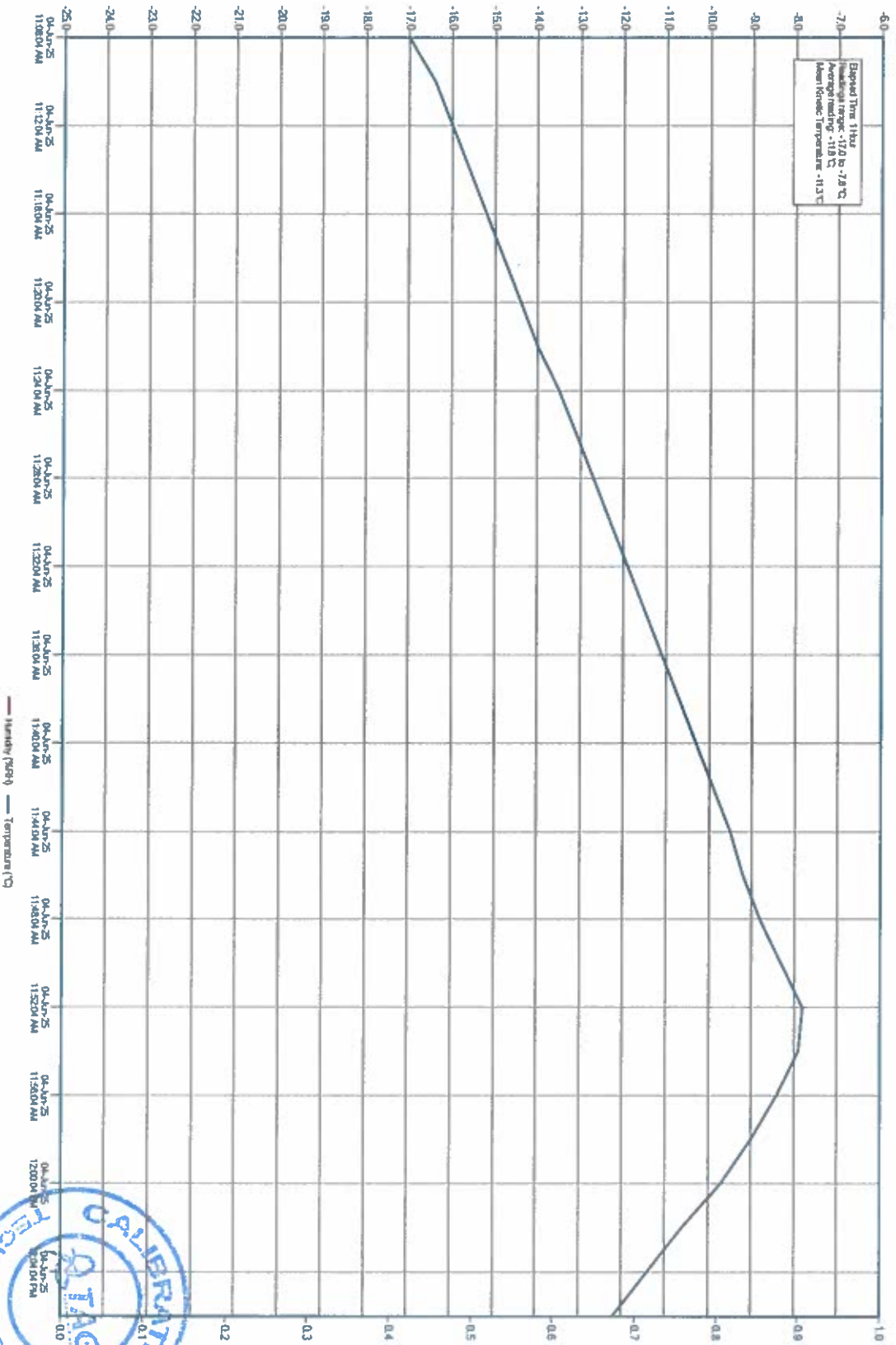


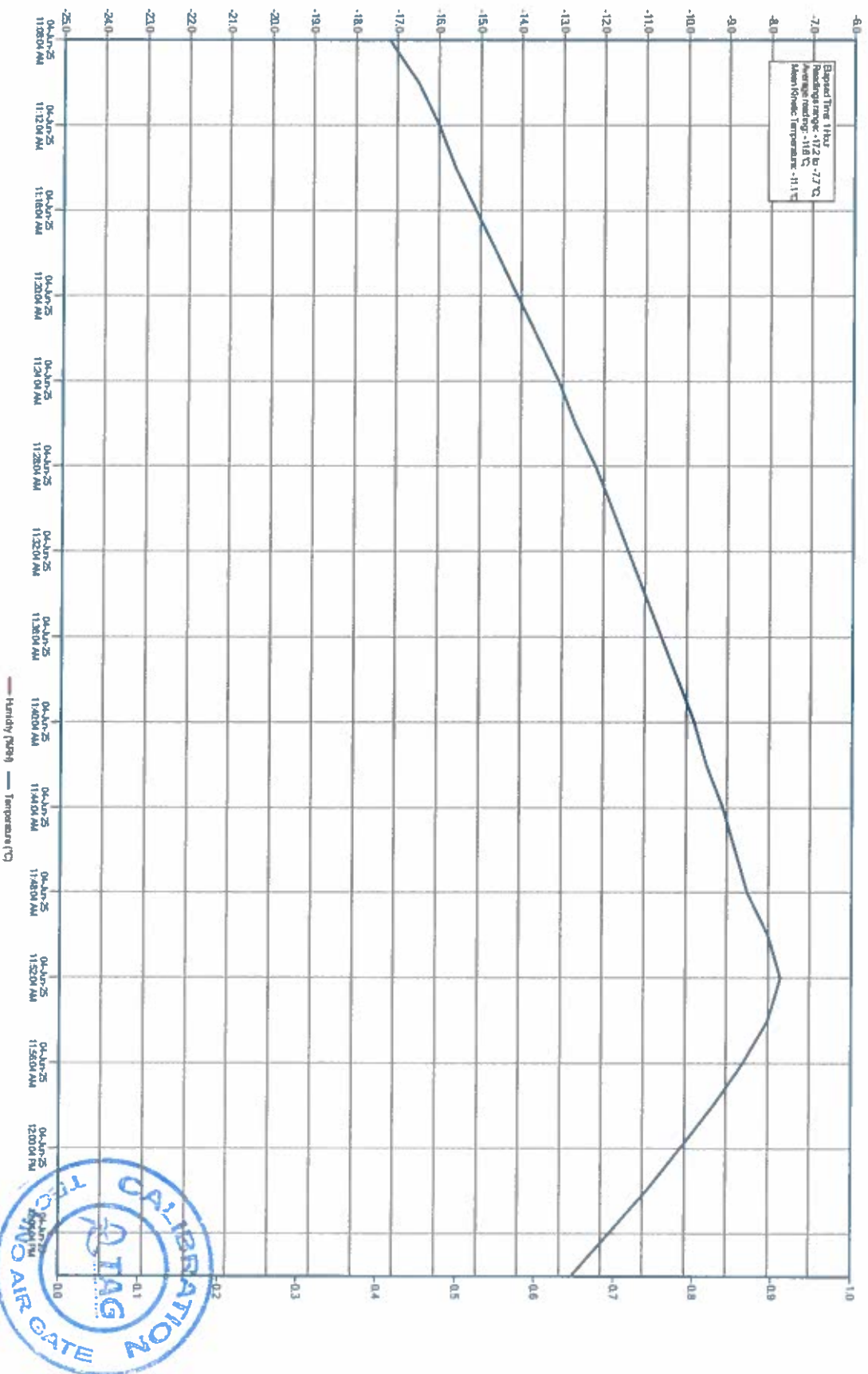
LogTag

Temp °C

HAXO-B-1010149434 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH





VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01
ATTACHMENTS

ATTACHMENTS 01.02.01.03

Door Opening Printouts



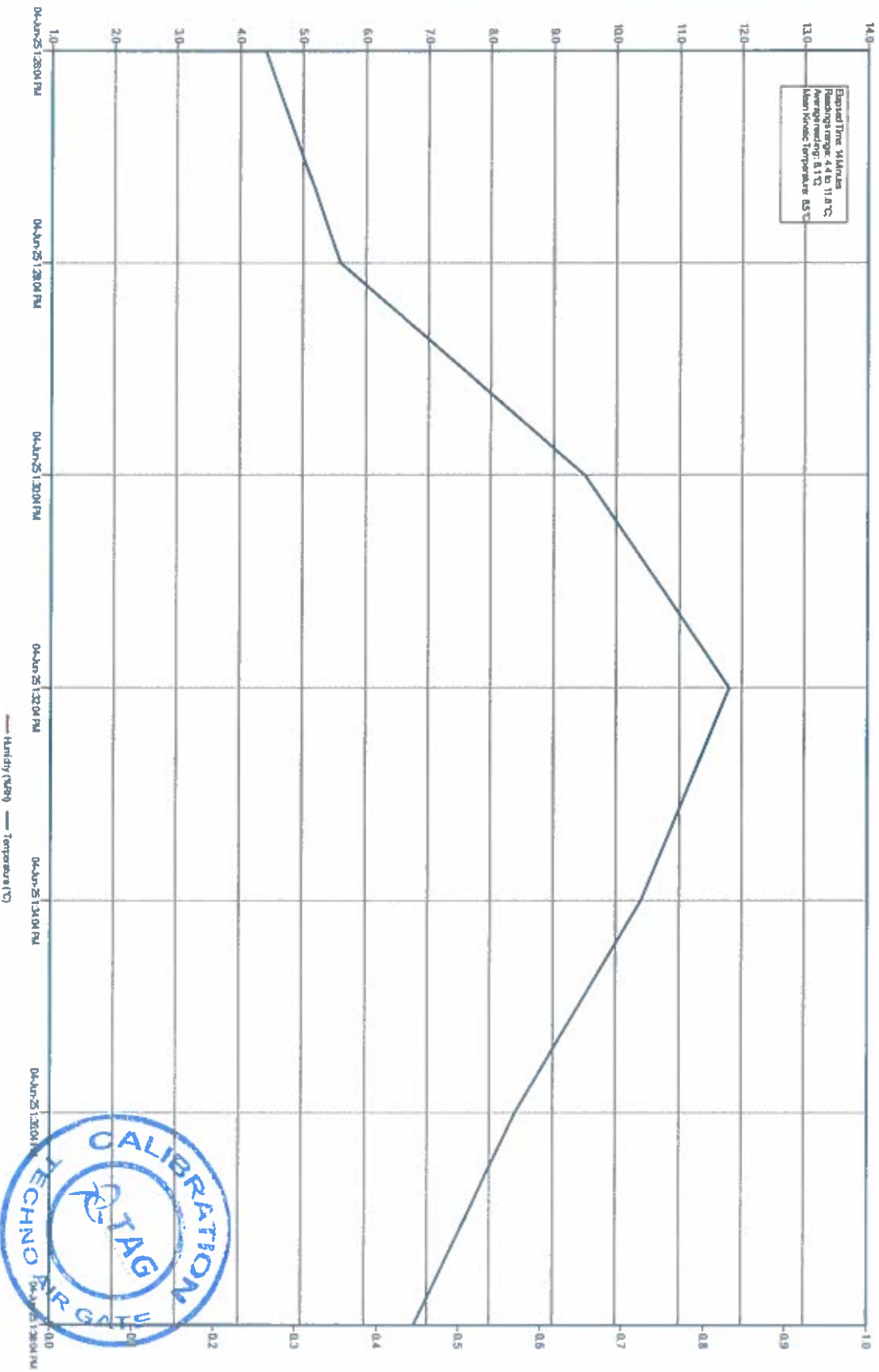
REFRIGERATOR PERFORMANCE QUALIFICATION

LogTag

Temp °C

HAXO-B-1010161122 Started 02-Jun-25, Finished 04-Jun-25

Humid %RH

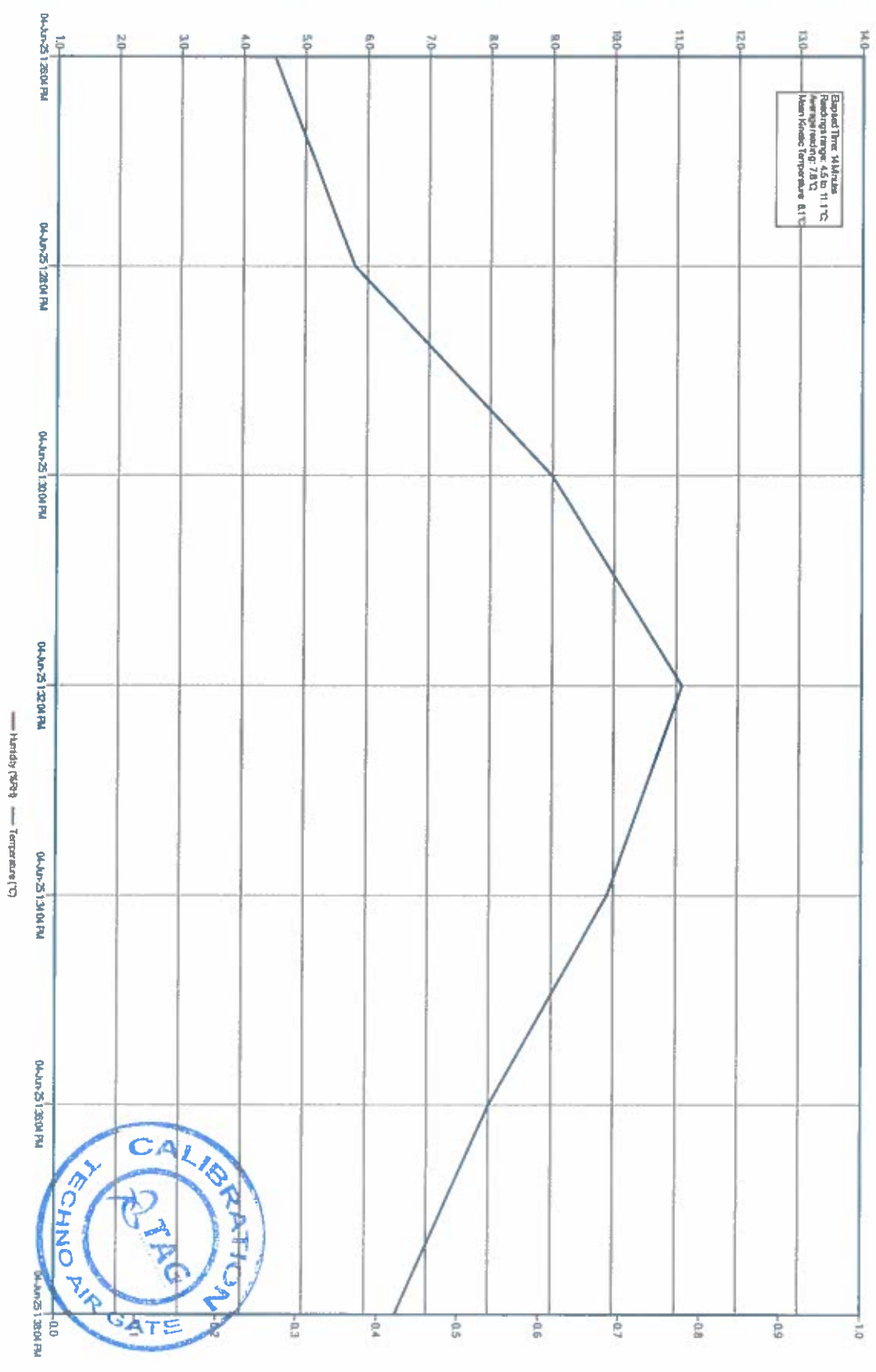


LogTag

Temp °C

HAYO-E-1010161121 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

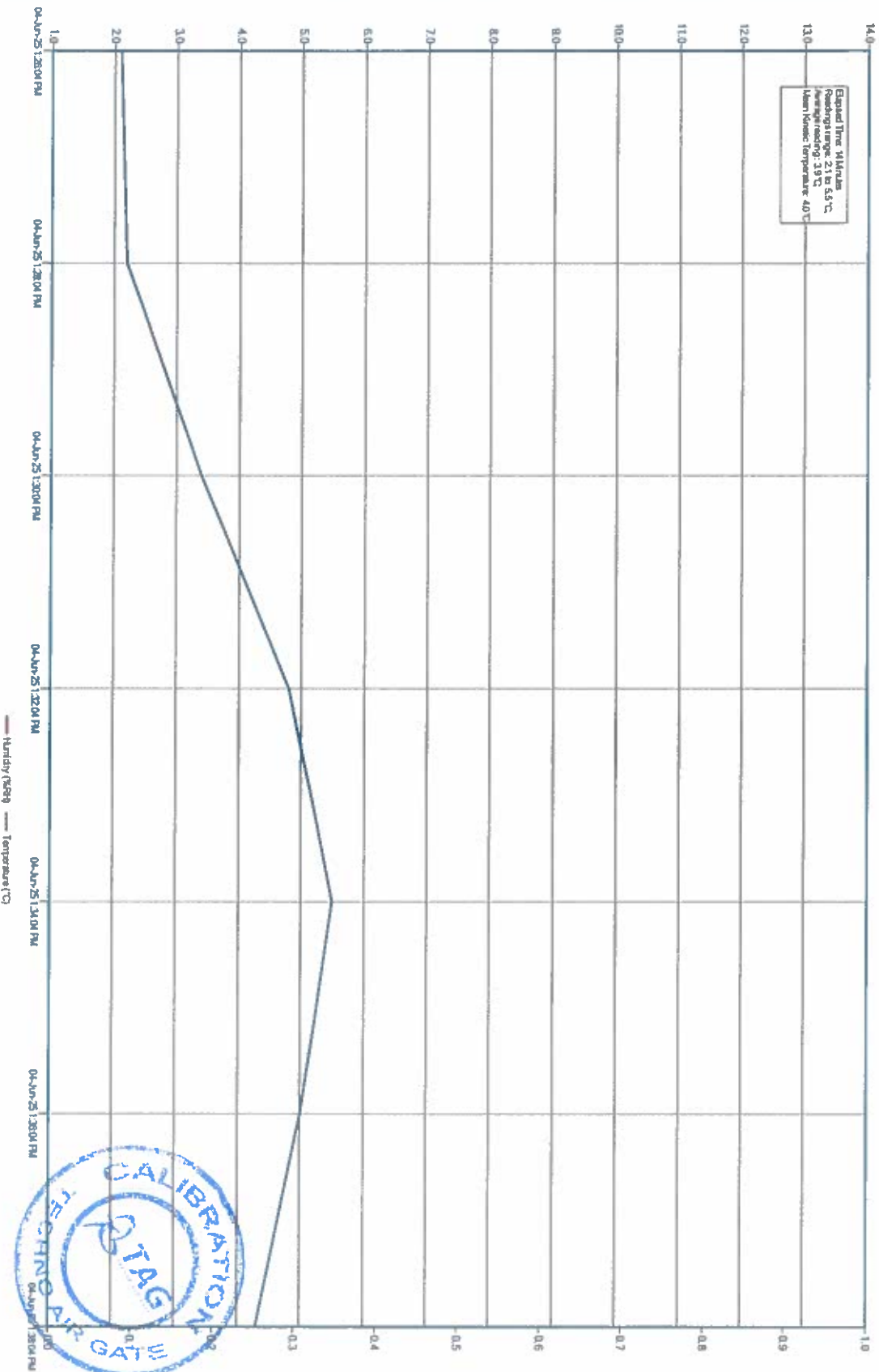


LogTag

Temp °C

HAYO-B-1010157751 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

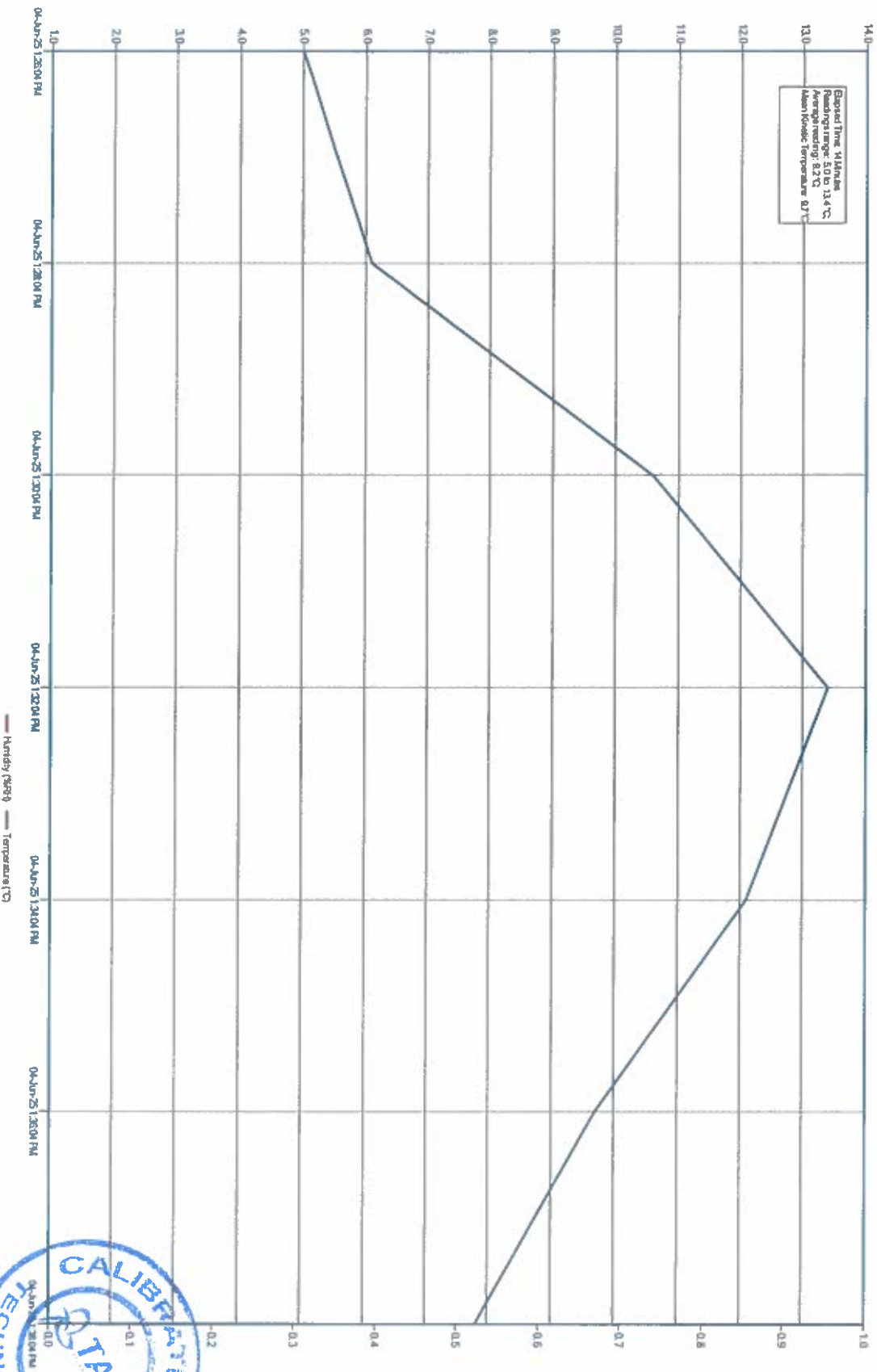


LogTag

Temp °C

HAYO-B-1010157523 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

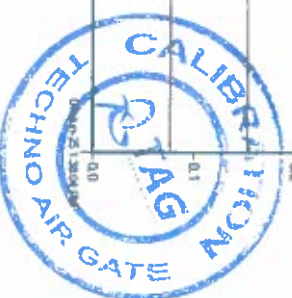
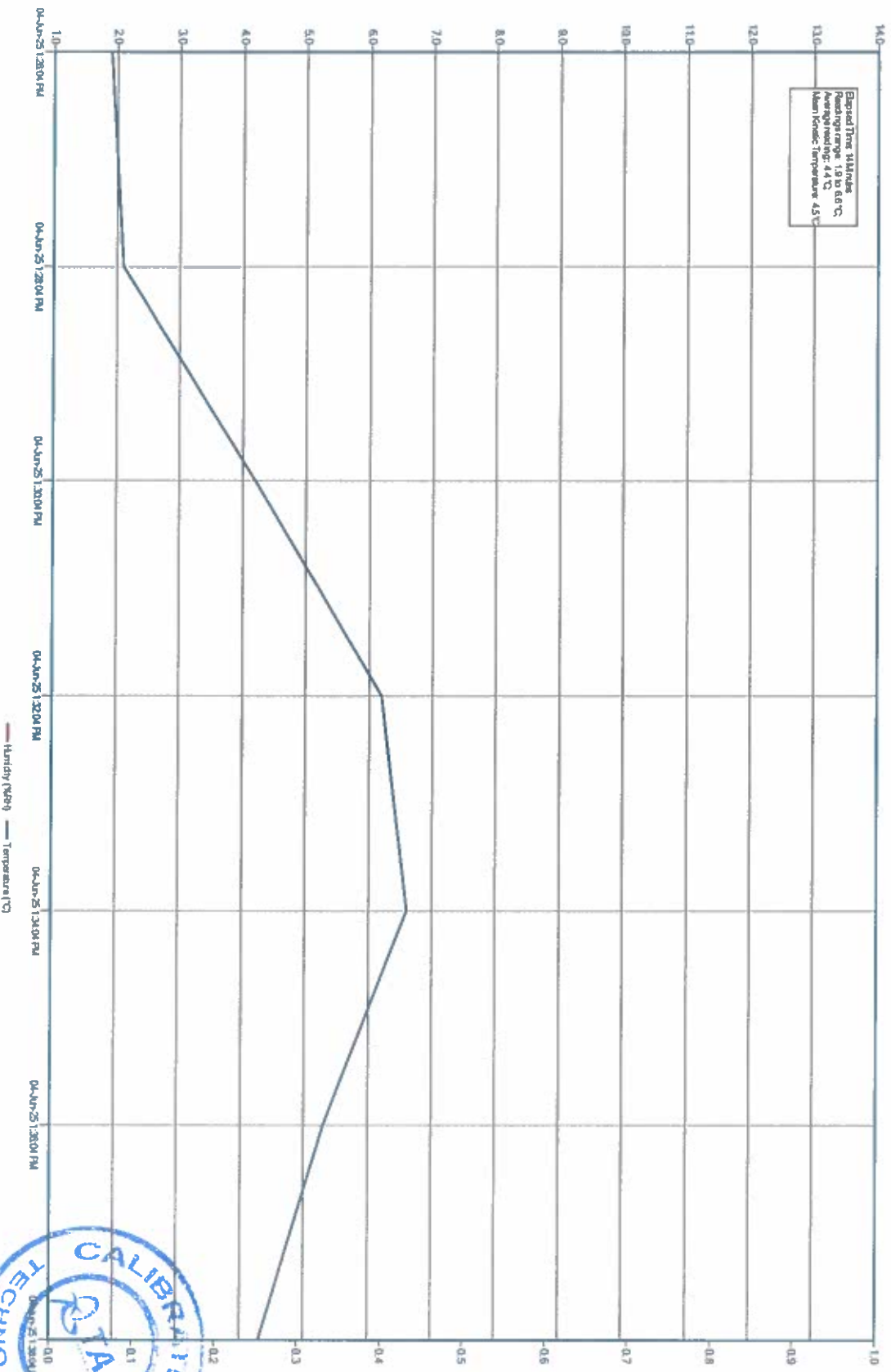


LogTag

Temp °C

HAYO-B-1010157521 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

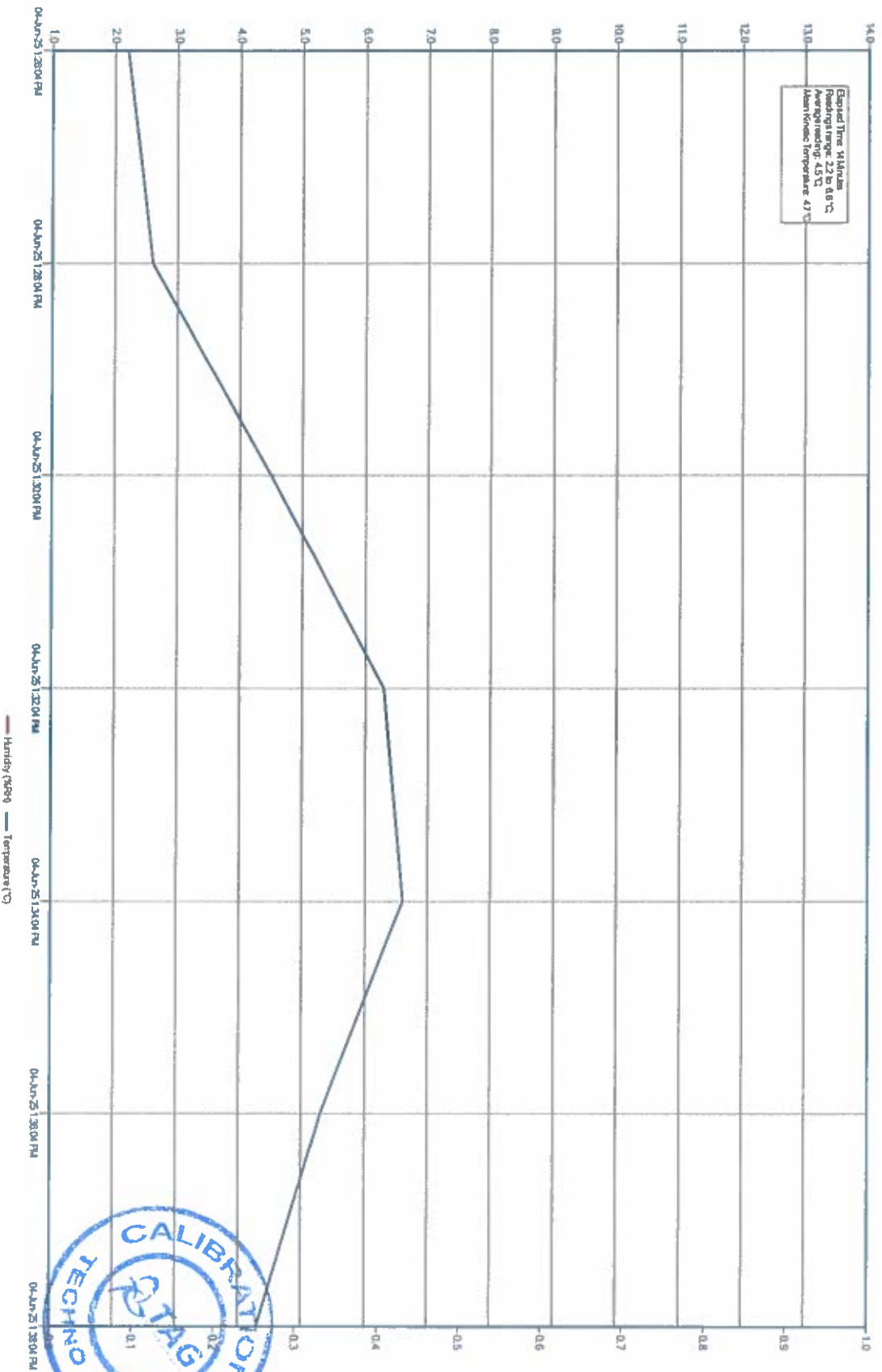


LogTag

Temp °C

HAYO-6-1010157515 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

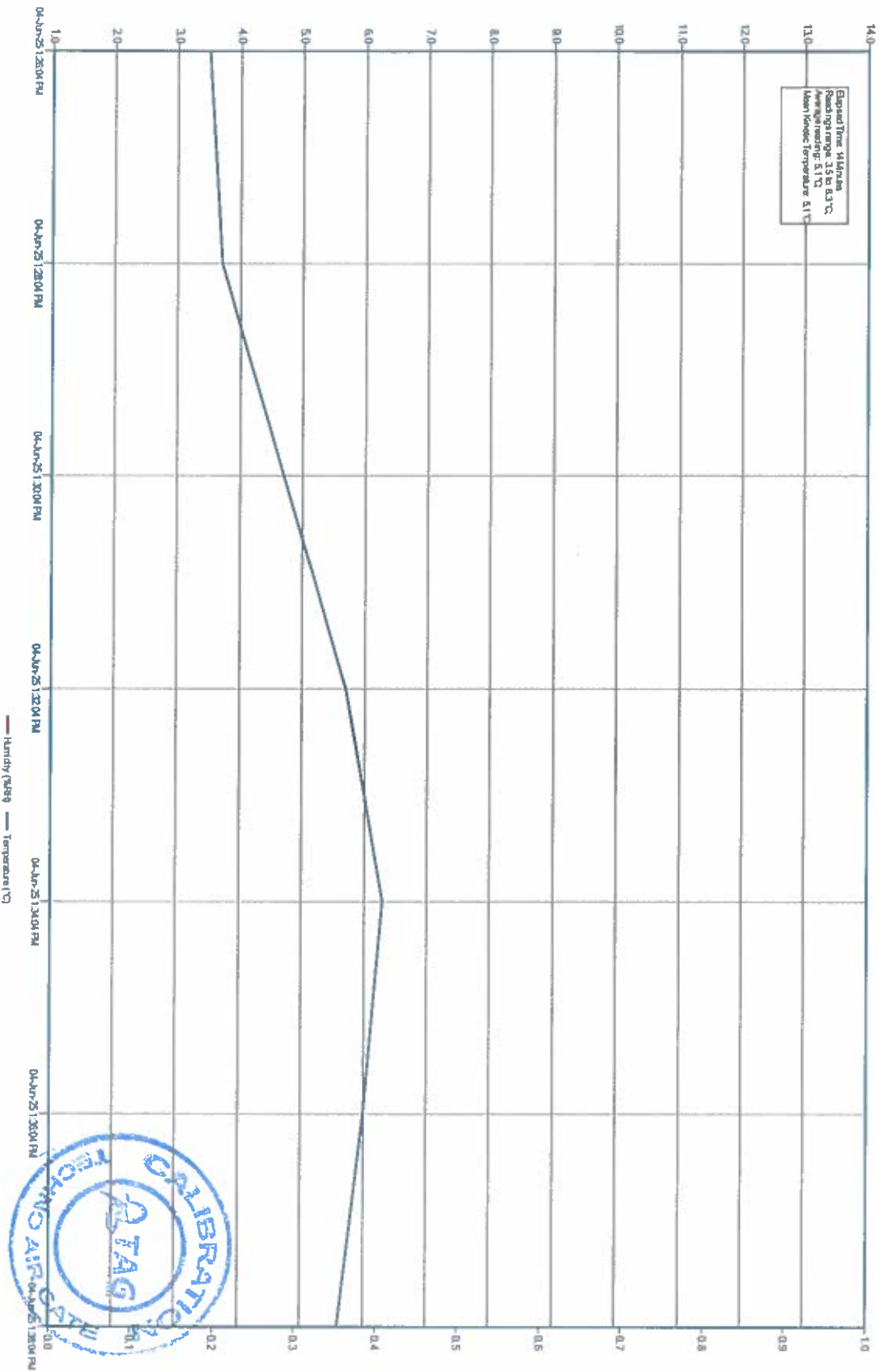


LogTag

Temp °C

HAYO-B-1010151511 Started 02-Jun-25, Finished 04-Jun-25

Humidity %RH



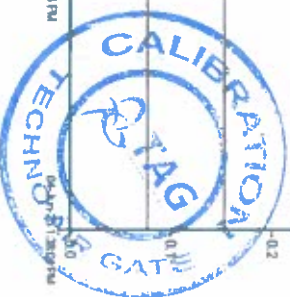
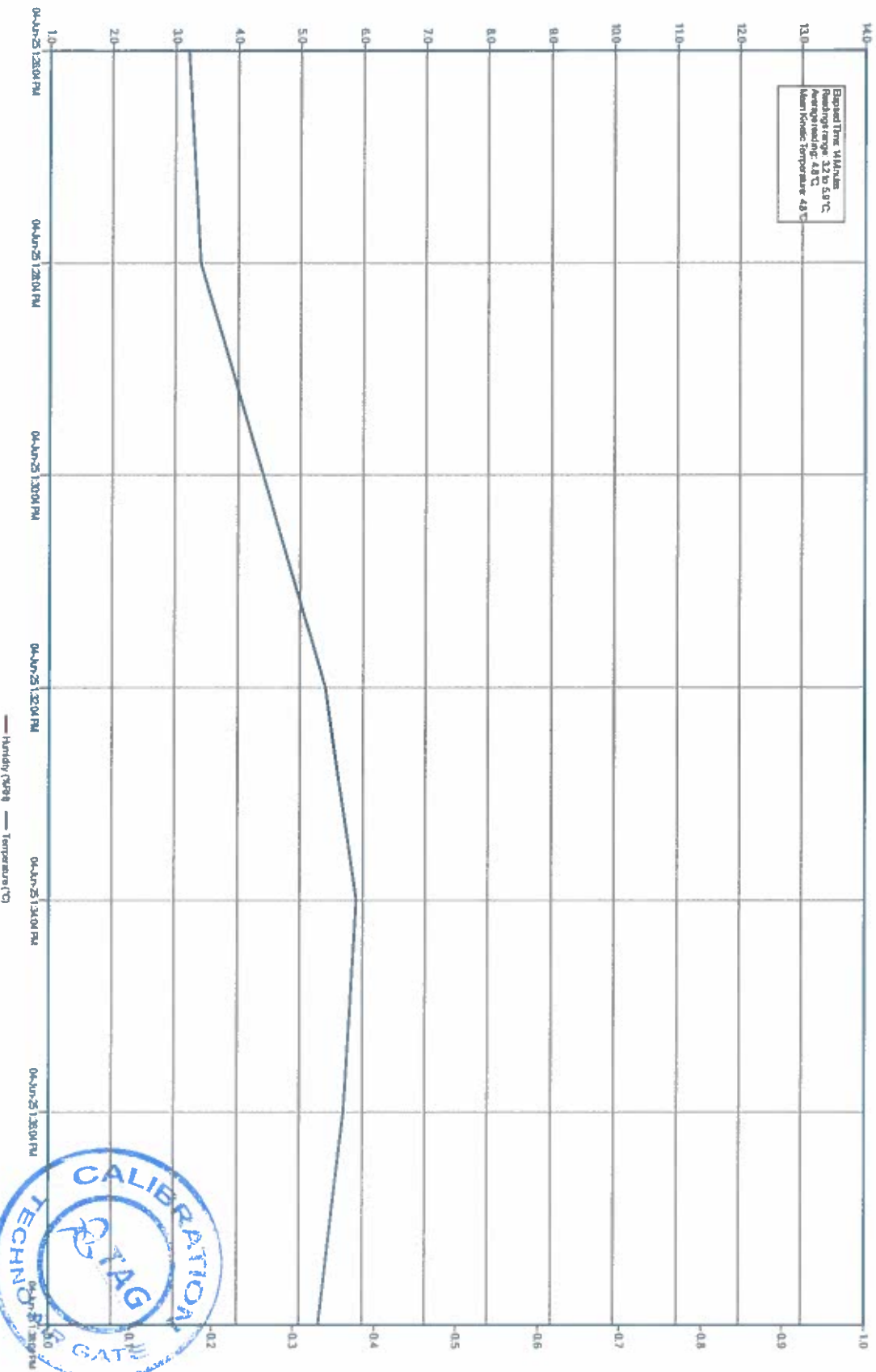
LogTag

Temp °C

HAYO-B-1010150014 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

Elapsed Time 144 hours
Readings range 12 to 5.9 °C
Average reading 4.8 °C
Humidity range 4.8 °C
Humidity range 4.8 °C

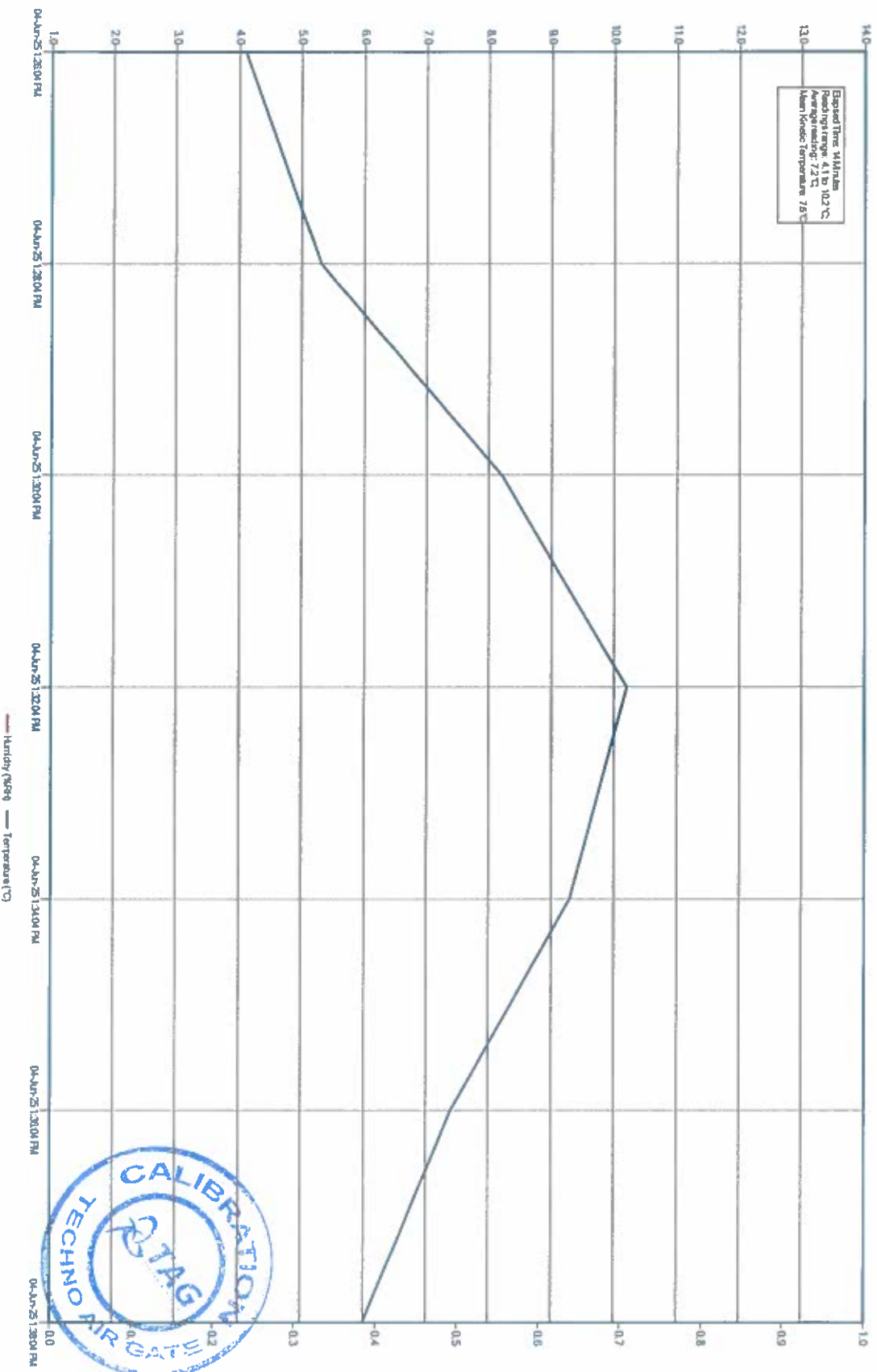


LogTag

Temp °C

HAYO-B-1010149815 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

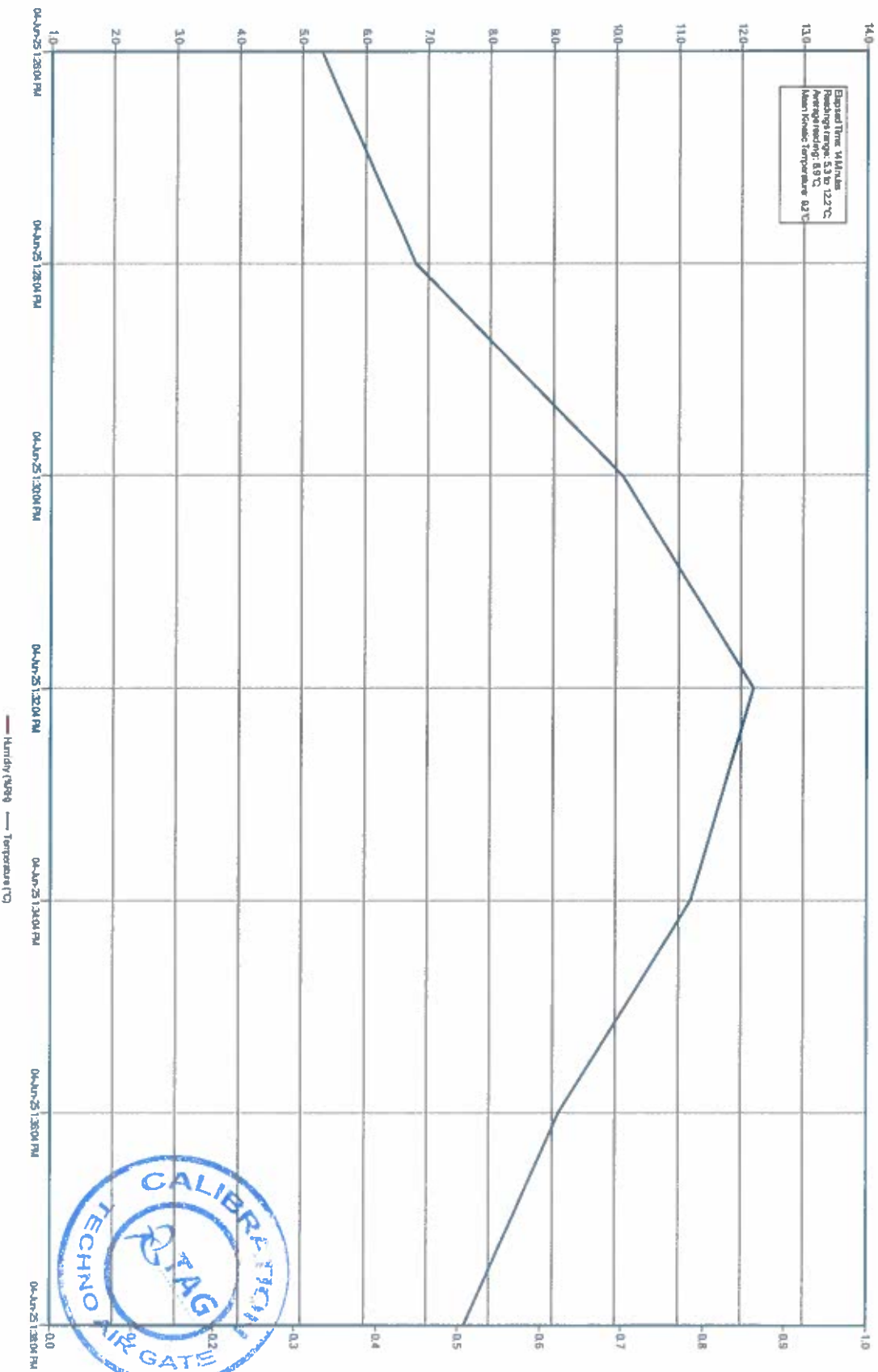


LogTag

Temp °C

HAYO-E-1010148394 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

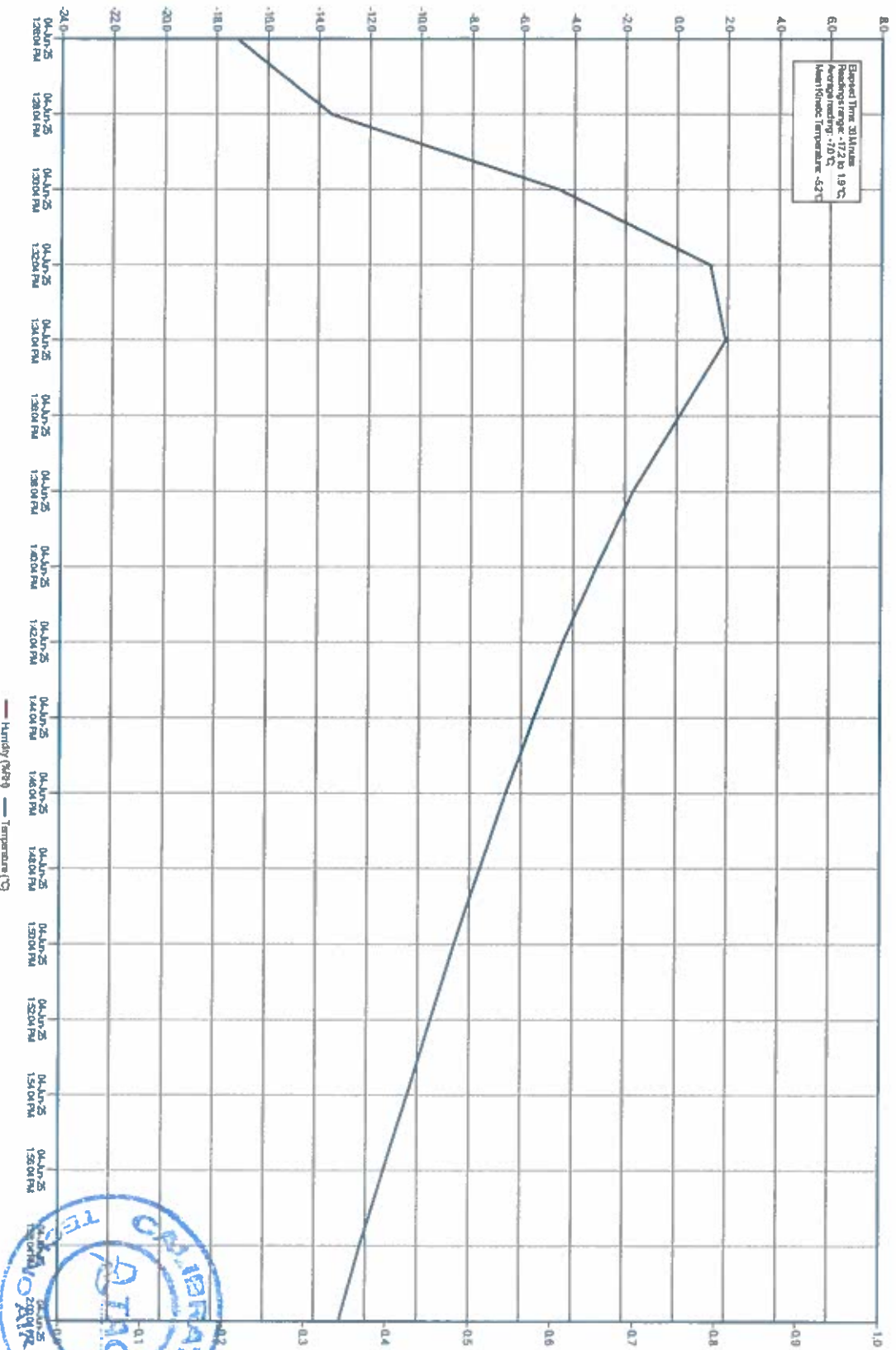


LogTag

Temp °C

HAXO-E-1010161113 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH



Human work

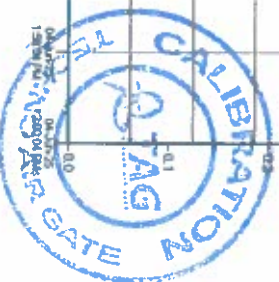
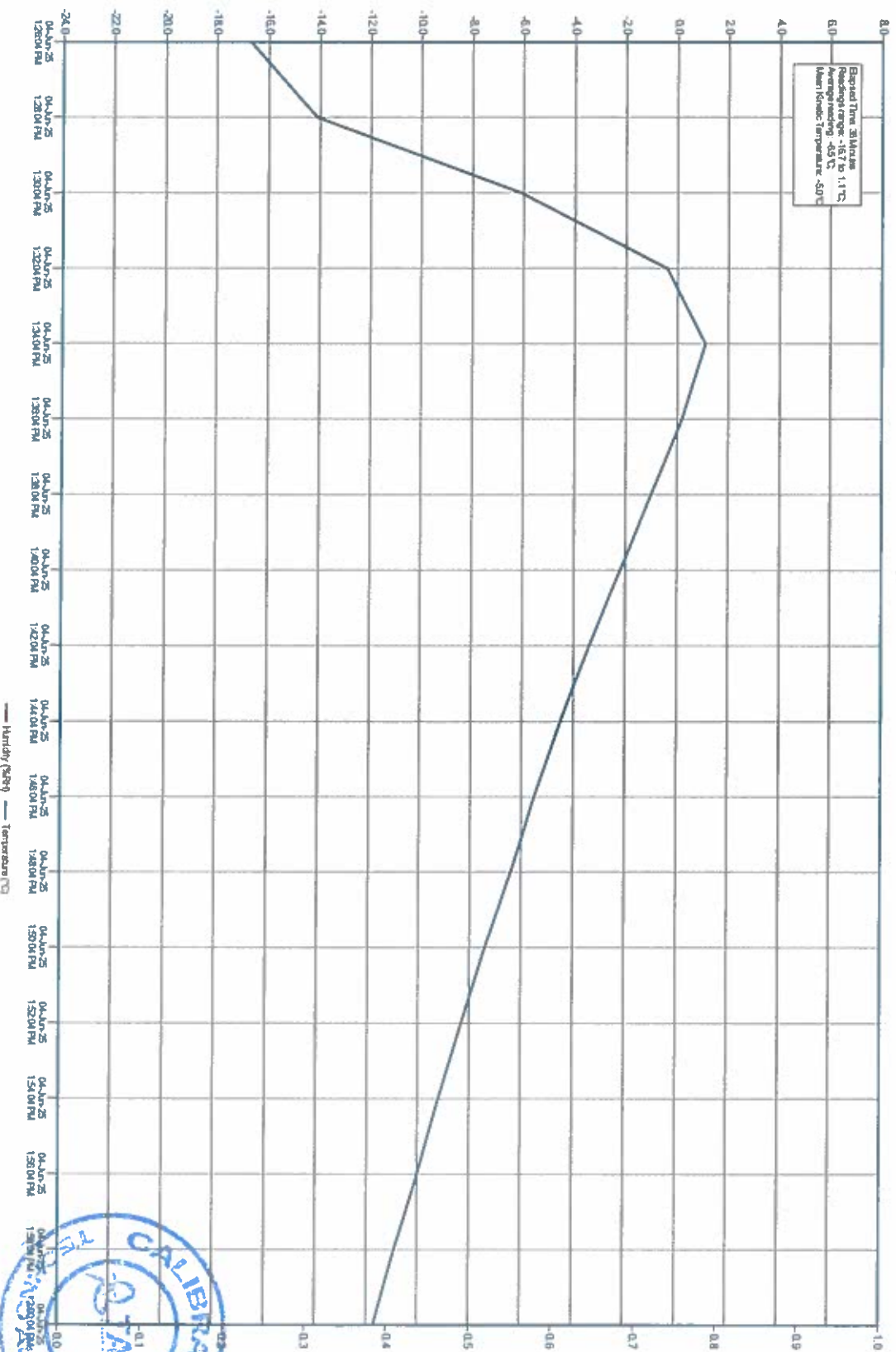


LogTag

Temp °C

HAXO-B-1010157517 Started 02-Jun-25, Finished 04-Jun-25

Humidity

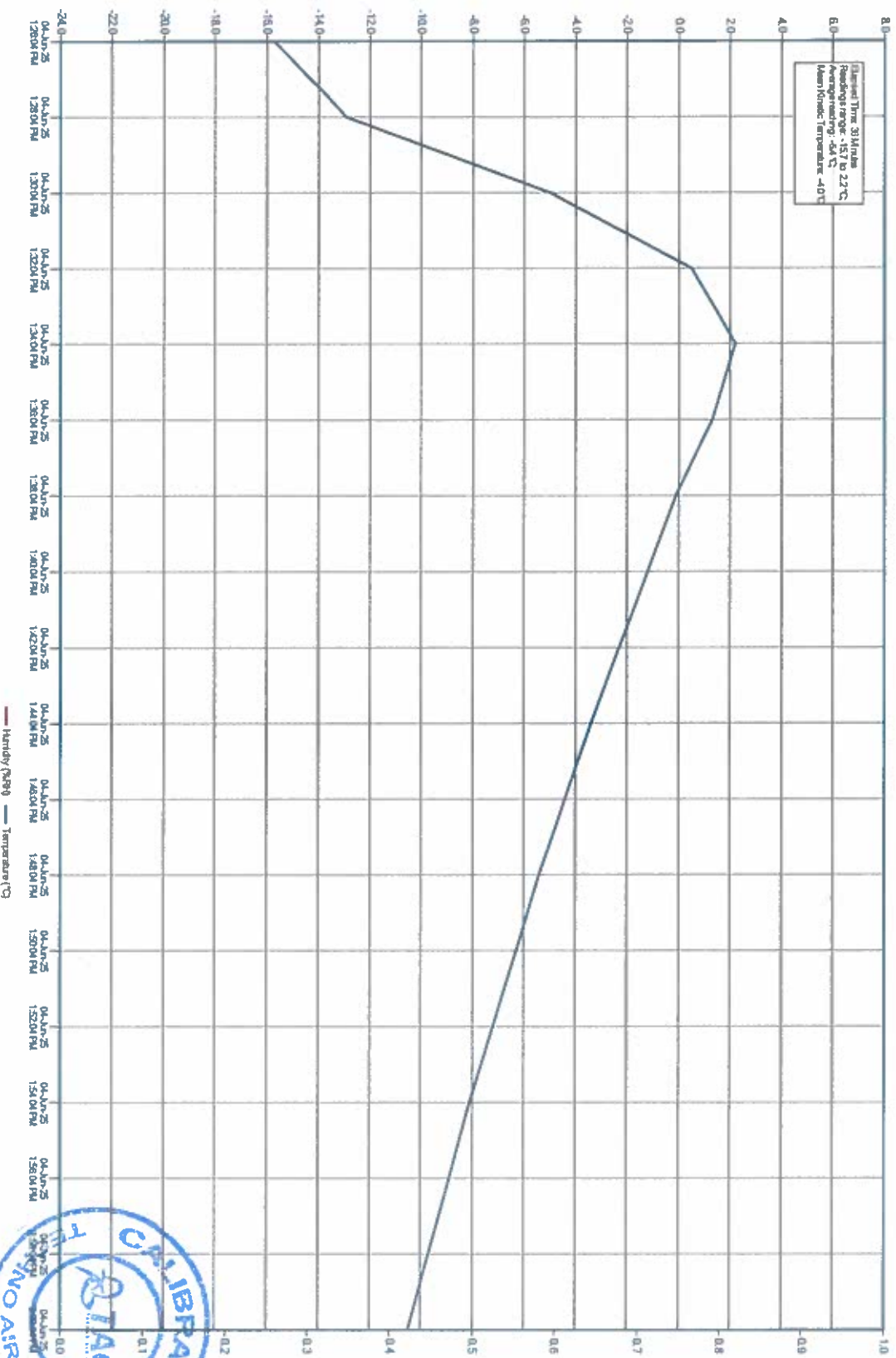


LogTag

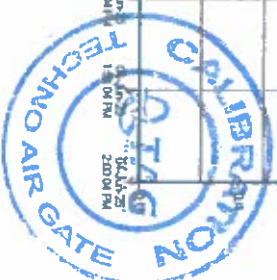
Temp °C

HAXO-B-1010150019 Started 02-Jun-25, Finished 04-Jun-25

Humidity %RH



Human 5634

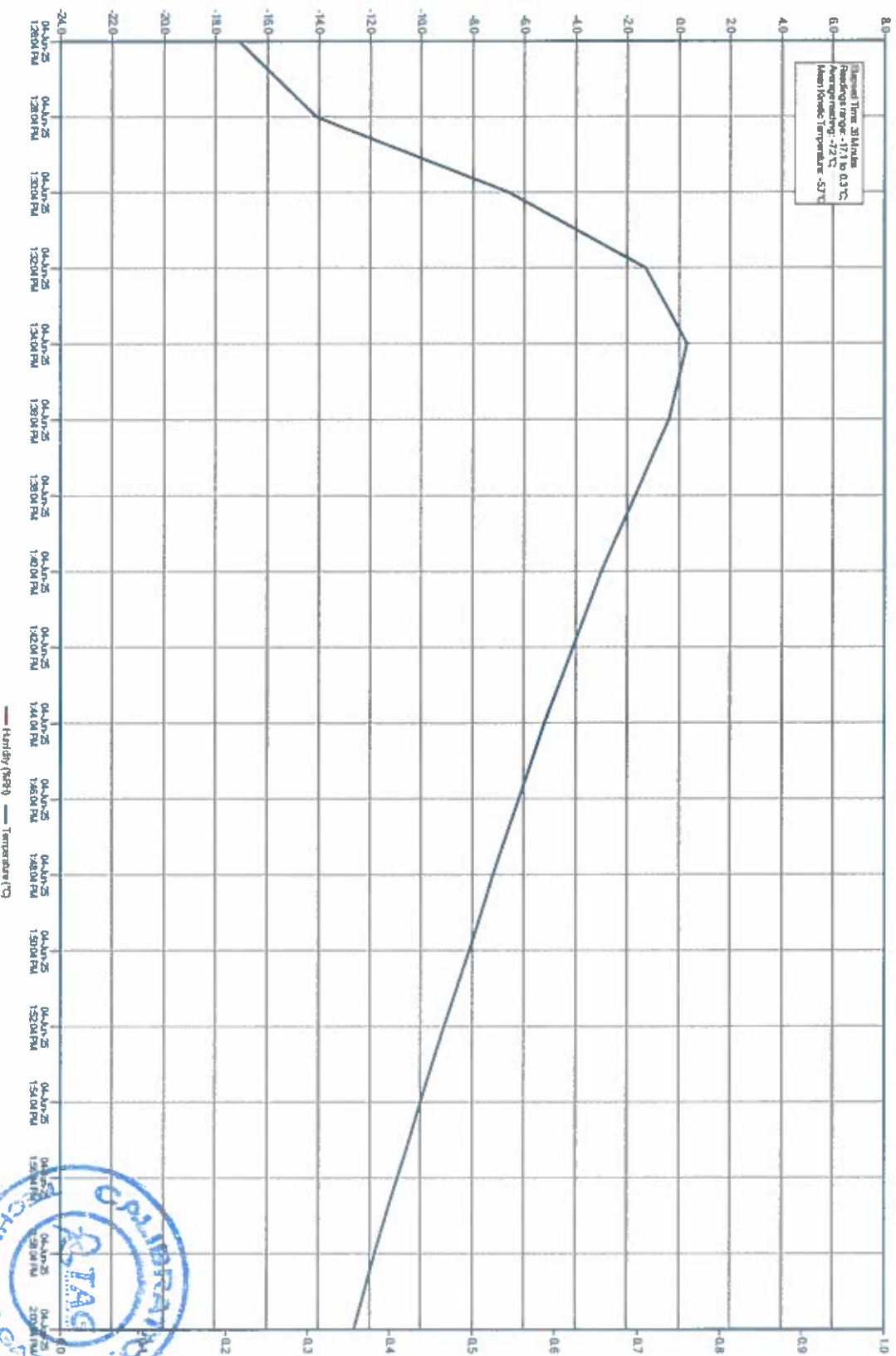


Log Tag

Temp °C

HAXO-8-1010150000 Started 02-Jun-25, Finished 04-Jun-25

Humidity

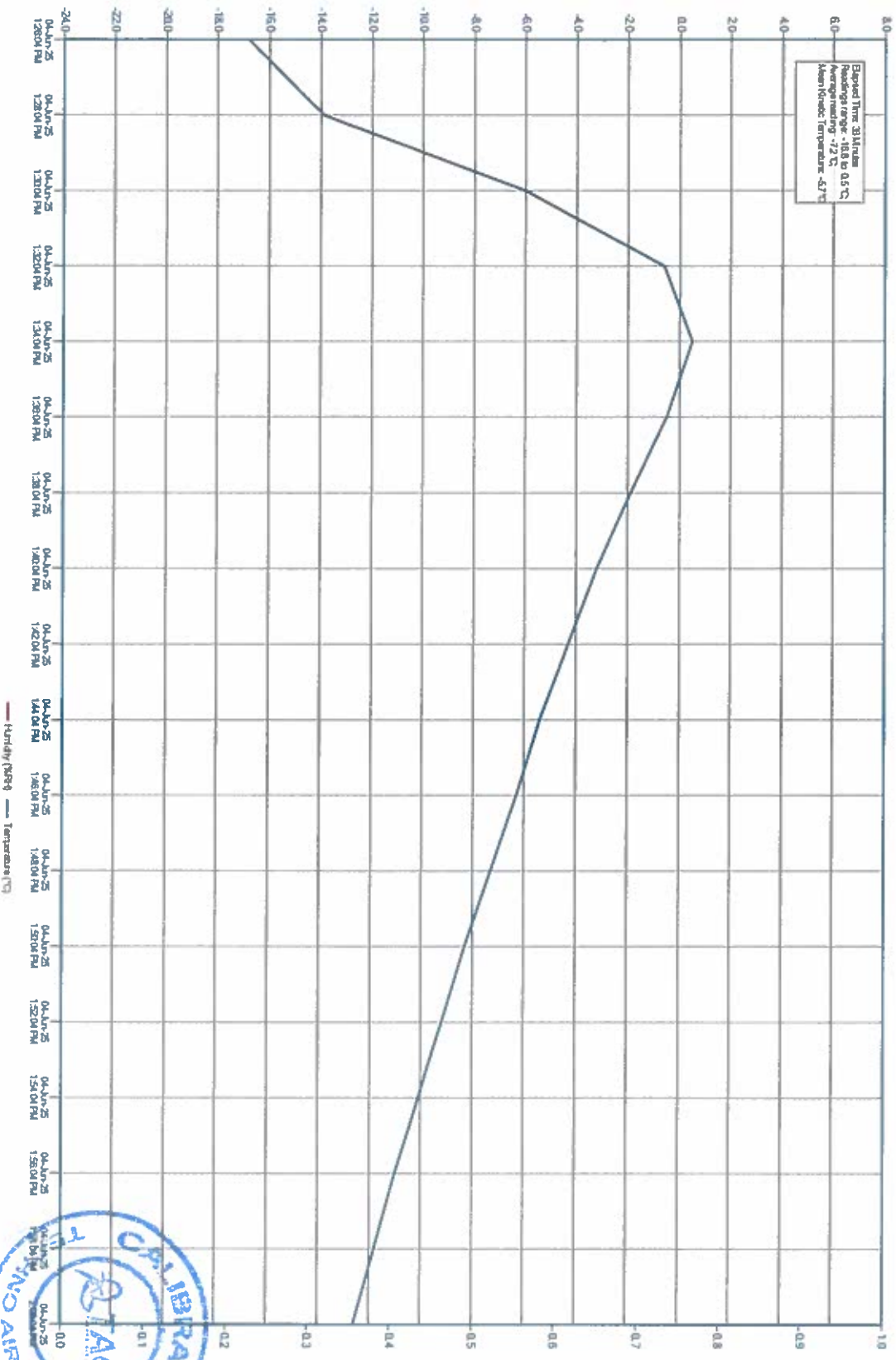


LogTag

Temp °C

HAXO-B-1010145999 Started 02-Jun-25, Finished 04-Jun-25

Hum %RH

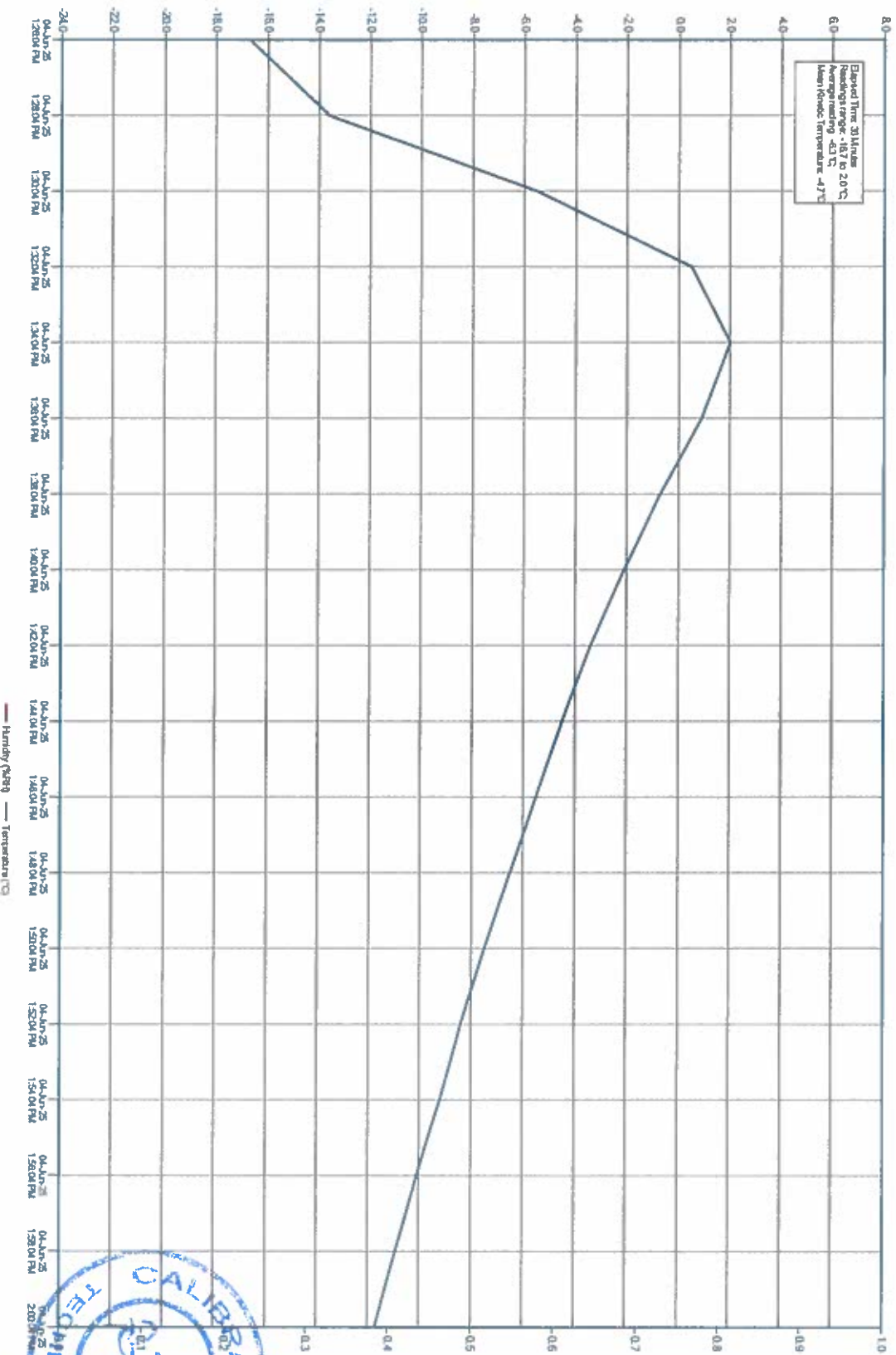


Log Tag

Temp °C

MAXO-B-1010149991 Started 02-Jun-25, Finished 04-Jun-25

Humidity

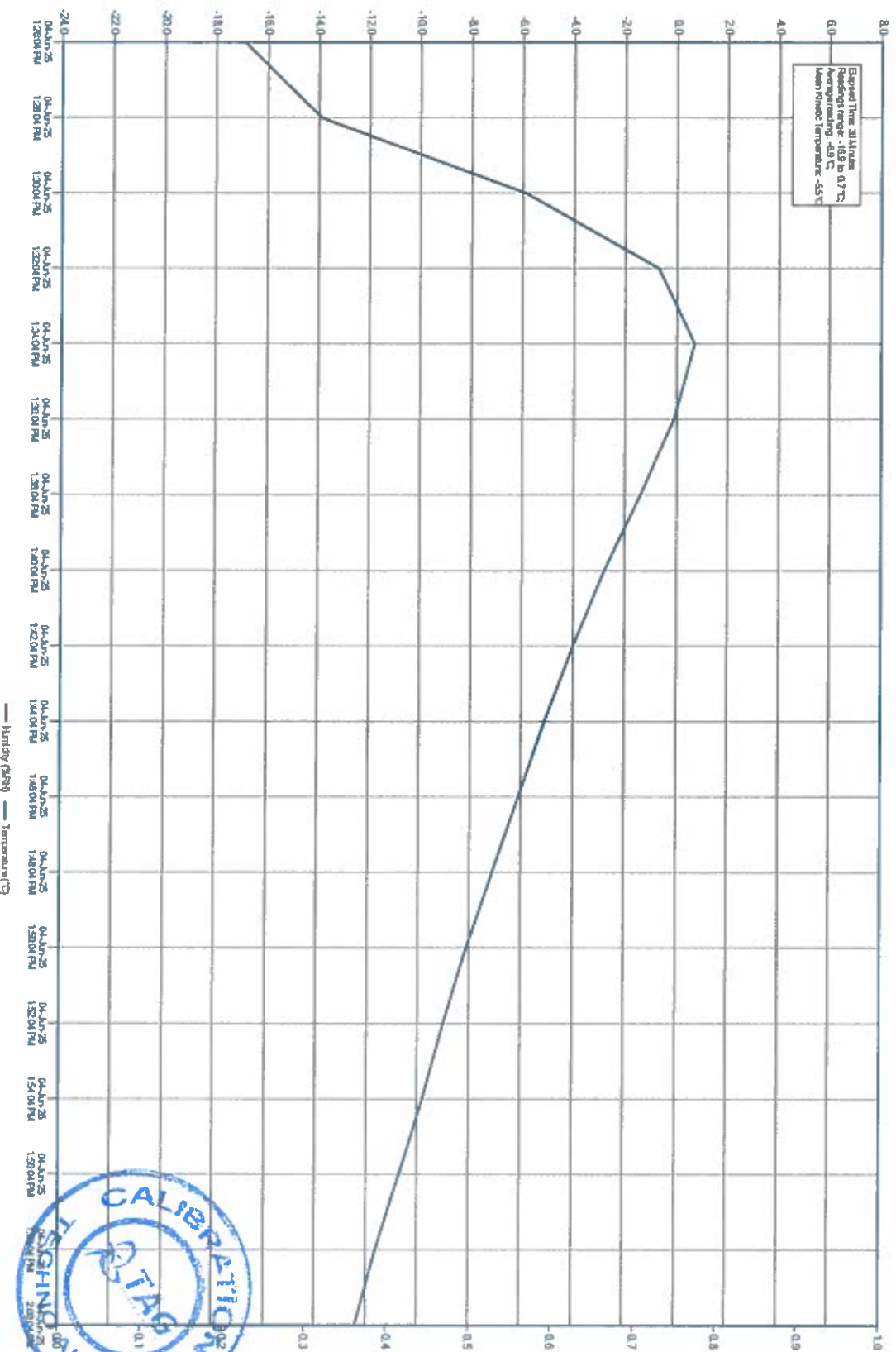


LogTag

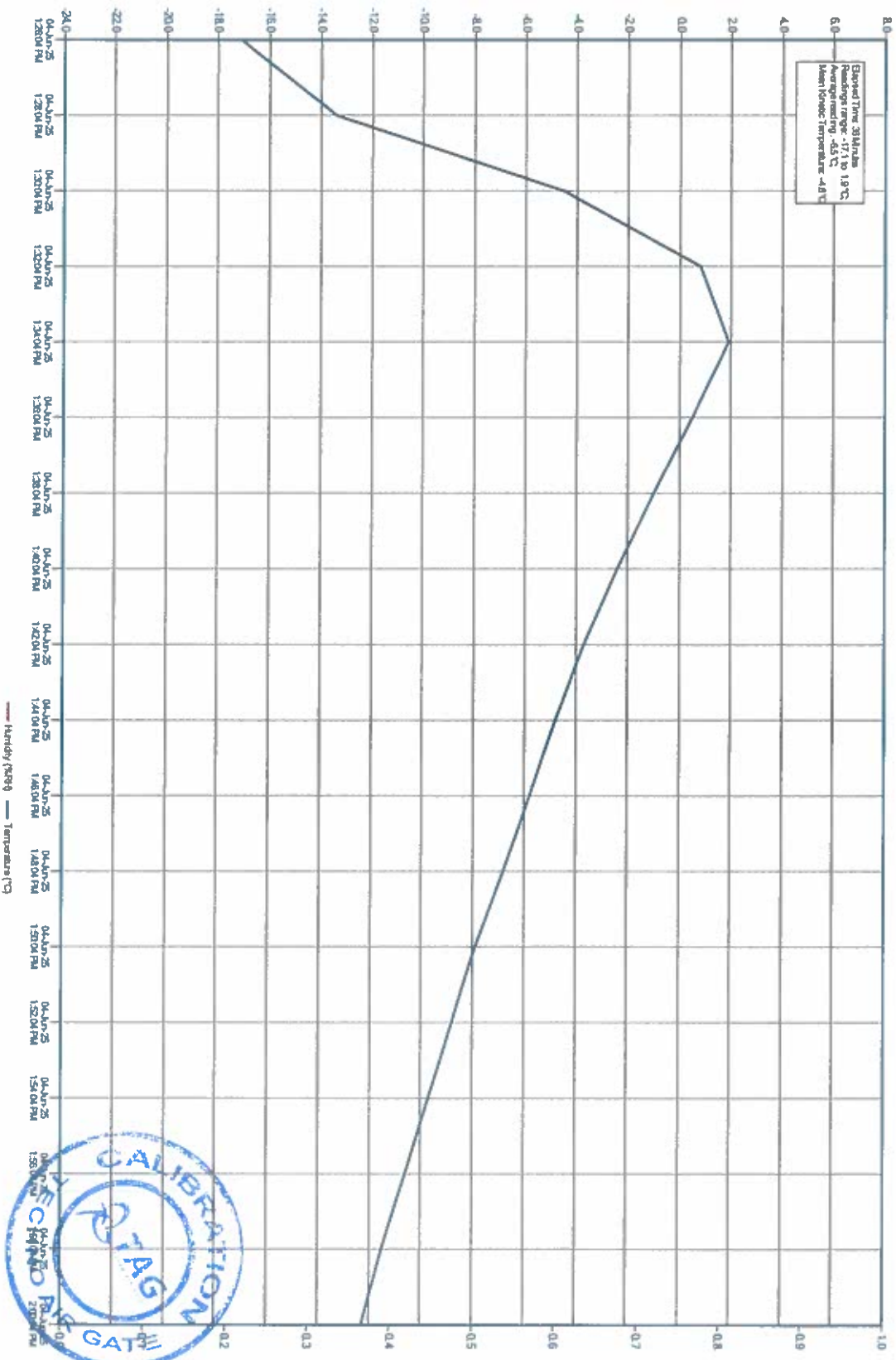
Temp °C

HAWO-B-1010148434 Started 02-Jun-25, Finished 04-Jun-25

Humidity %RH



Hunt 1994H



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

ATTACHMENTS 01.02.01.04

Raw Data (on CD)



VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

ATTACHMENTS 01.02.01.05

Inspection Label



Issue No.: 01.0
Issue Date: 01 Oct. 2024

Blue Inspection Label

Doc. No: F-7.2/02



Inspection	
TAG TECHNO AIR GATE	ID Refrigerator (QC-REF-06)
	Date Jun., 2025
	Due Jun., 2026
Inspected by <i>A. Ramdan</i>	

VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

ATTACHMENTS 01.02.01.06

Reference Equipment Calibration Certificates



CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 001 - 102 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010144277
Code:	1010144277	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy 50.03°C Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor kp value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

Notes:

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Disclaimer:

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 102 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction Δt=ts-tm °C	Uncertainty (±°C)	Pass/Fail
-25.00	-24.6	-0.4	0.19	Pass
2.00	2.4	-0.4	0.19	Pass
8.00	8.4	-0.4	0.19	Pass
15.00	15.5	-0.5	0.19	Pass
40.00	40.0	0.0	0.19	Pass
70.00	70.0	0.0	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 001 - 160 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010148394
Code:	1010148394	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 001 - 160 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.6	-0.4	0.19	Pass
2.00	2.4	-0.4	0.19	Pass
8.00	8.5	-0.5	0.19	Pass
15.00	15.5	-0.5	0.19	Pass
40.00	40.0	0.0	0.19	Pass
70.00	70.0	0.0	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 05 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 06 Apr 2025

Reviewed & Approved By
Name: Ahmed Tarek
Title: Technical Manager



F-7.8/09

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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 001 - 135 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010148434
Code:	1010148434	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

Notes:

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Disclaimer:

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 135 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.9	-0.1	0.19	Pass
2.00	2.5	-0.5	0.19	Pass
8.00	8.5	-0.5	0.19	Pass
15.00	15.4	-0.4	0.19	Pass
40.00	40.5	-0.5	0.19	Pass
70.00	70.1	-0.1	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 001 - 071 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010149815
Code:	1010149815	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 001 - 071 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.7	-0.3	0.19	Pass
2.00	2.2	-0.2	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	40.1	-0.1	0.19	Pass
70.00	70.1	-0.1	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: 
Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Signature: 
Date: 06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager



F-7.8/09

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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 001 - 086 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010149991
Code:	1010149991	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 086 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.6	-0.4	0.19	Pass
2.00	2.3	-0.3	0.19	Pass
8.00	8.3	-0.3	0.19	Pass
15.00	15.2	-0.2	0.19	Pass
40.00	40.3	-0.3	0.19	Pass
70.00	70.4	-0.4	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 ± 5 °C
Relative Humidity:	45 ± 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	± 0.5 °C
Uncertainty:	± 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature:
Date: 05 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature:
Date: 06 Apr 2025

Reviewed & Approved By
Name: Ahmed Tarek
Title: Technical Manager



F-7.8/09

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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 001 - 170 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010149999
Code:	1010149999	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

Notes:

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Disclaimer:

- This Certificate is only related to the unit under Calibration during the Calibration period.

Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

F-7.8/09

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Ver. No.: 01

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 170 - 2025

Reading Information °C

Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.7	-0.3	0.19	Pass
2.00	2.2	-0.2	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	40.2	-0.2	0.19	Pass
70.00	70.3	-0.3	0.19	Pass

Environmental Conditions During Calibration

Temperature: 23 ± 5 °C
Relative Humidity: 45 ± 15 %
Pressure: 1.013 bar

Calibration Results °C

Max. Reading Error: 0.3 °C
Acceptance Criteria: ± 0.5 °C
Uncertainty: ± 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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Ver. No.: 01

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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 001 - 109 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010150000
Code:	1010150000	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

Notes:

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Disclaimer:

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- Decision Rule:** statement of conformity is based on that the deviation is within acceptance criteria.

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Ver. No: 01

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 109 - 2025

Reading Information °C

Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.7	-0.3	0.19	Pass
2.00	2.1	-0.1	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.2	-0.2	0.19	Pass
40.00	40.2	-0.2	0.19	Pass
70.00	70.3	-0.3	0.19	Pass

Environmental Conditions During Calibration

Temperature: 23 ± 5 °C
Relative Humidity: 45 ± 15 %
Pressure: 1.013 bar

Calibration Results °C

Max. Reading Error: 0.3 °C
Acceptance Criteria: ± 0.5 °C
Uncertainty: ± 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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Ver. No.: 01

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CALIBRATION CERTIFICATE

TAG LAB ☒ On Site ☐

Certificate No.: 001 - 001 - 076 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010150014
Code:	1010150014	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 076 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.7	-0.3	0.19	Pass
2.00	2.2	-0.2	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	40.2	-0.2	0.19	Pass
70.00	70.3	-0.3	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 05 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 06 Apr 2025

Reviewed & Approved By
Name: Ahmed Tarek
Title: Technical Manager



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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 001 - 046 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010150017
Code:	1010150017	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 001 - 046 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.9	-0.1	0.19	Pass
2.00	2.2	-0.2	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	40.2	-0.2	0.19	Pass
70.00	70.2	-0.2	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem H. Hesham*
Date: 05 Apr 2025

Prepared by
Name: Noha Essam
Title: Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 06 Apr 2025

Reviewed & Approved By
Name: Ahmed Tarek
Title: Technical Manager



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CALIBRATION CERTIFICATE

TAG LAB ☒ On Site ☐

Certificate No.: 001 - 001 - 078 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010150019
Code:	1010150019	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 078 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.6	-0.4	0.19	Pass
2.00	2.2	-0.2	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	40.2	-0.2	0.19	Pass
70.00	70.2	-0.2	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Signature: *Noha Essam*

Date: 06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Signature: *Ahmed Tarek*

Date: 06 Apr 2025



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CALIBRATION CERTIFICATE



TAG LAB ☒ On Site ☐

Certificate No.: 001 - 001 - 093 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010157511
Code:	1010157511	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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Disclaimer:

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Decision Rule: statement of conformity is based on that the deviation is within acceptance criteria.

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 093 - 2025

Reading Information °C

Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-25.0	0.0	0.19	Pass
2.00	2.4	-0.4	0.19	Pass
8.00	8.5	-0.5	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	39.5	0.5	0.19	Pass
70.00	69.5	0.5	0.19	Pass

Environmental Conditions During Calibration

Temperature: 23 ± 5 °C
Relative Humidity: 45 ± 15 %
Pressure: 1.013 bar

Calibration Results °C

Max. Reading Error: 0.5 °C
Acceptance Criteria: ± 0.5 °C Acceptance Criteria is According to Customer Requirement.
Uncertainty: ± 0.19 °C

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 001 - 111 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010157516
Code:	1010157516	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 001 - 111 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.8	-0.2	0.19	Pass
2.00	2.5	-0.5	0.19	Pass
8.00	8.5	-0.5	0.19	Pass
15.00	15.4	-0.4	0.19	Pass
40.00	40.5	-0.5	0.19	Pass
70.00	70.2	-0.2	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By
Name: Bassem Hesham
Title: Calibration Specialist
Signature: *Bassem Hesham*
Date: 05 Apr 2025

Prepared by
Noha Essam
Senior Technical Office Specialist
Signature: *Noha Essam*
Date: 06 Apr 2025

Reviewed & Approved By
Ahmed Tarek
Technical Manager



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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 001 - 095 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010157517
Code:	1010157517	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 095 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-25.5	0.5	0.19	Pass
2.00	2.0	0.0	0.19	Pass
8.00	8.0	0.0	0.19	Pass
15.00	15.0	0.0	0.19	Pass
40.00	40.2	-0.2	0.19	Pass
70.00	70.1	-0.1	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Signature: *Noha Essam*

Date: 06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 001 - 157 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010157521
Code:	1010157521	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 157 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.6	-0.4	0.19	Pass
2.00	2.1	-0.1	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.2	-0.2	0.19	Pass
40.00	40.1	-0.1	0.19	Pass
70.00	70.2	-0.2	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Signature: *Noha Essam*

Date: 06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Signature: *Ahmed Tarek*

Date: 06 Apr 2025



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October Branch: 2311 Abdulsalam Amin St., 2nd District, 6th October, Giza, Egypt

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CALIBRATION CERTIFICATE

TAG LAB ☒ On Site ☐

Certificate No.: 001 - 001 - 165 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010157523
Code:	1010157523	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 001 - 165 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.9	-0.1	0.19	Pass
2.00	2.3	-0.3	0.19	Pass
8.00	8.5	-0.5	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	40.5	-0.5	0.19	Pass
70.00	70.2	-0.2	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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CALIBRATION CERTIFICATE



TAG LAB ☒

On Site ☐

Certificate No.: 001 - 001 - 187 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010157751
Code:	1010157751	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 187 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.9	-0.1	0.19	Pass
2.00	2.1	-0.1	0.19	Pass
8.00	8.1	-0.1	0.19	Pass
15.00	15.2	-0.2	0.19	Pass
40.00	39.7	0.3	0.19	Pass
70.00	69.9	0.1	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Signature: *Noha Essam*

Date: 06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Signature: *Ahmed Tarek*

Date: 06 Apr 2025



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CALIBRATION CERTIFICATE

TAG LAB ☒ On Site ☐

Certificate No.: 001 - 001 - 169 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010161102
Code:	1010161102	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 001 - 169 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.7	-0.3	0.19	Pass
2.00	2.1	-0.1	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.2	-0.2	0.19	Pass
40.00	40.2	-0.2	0.19	Pass
70.00	70.3	-0.3	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.3 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C
Acceptance Criteria is According to Customer Requirement.	

Received Date	Issue Date	Calibration Date	Calibration Due
05 Apr 2025	06 Apr 2025	05 Apr 2025	04 Oct 2025

Calibrated By
 Name: Bassem Hesham
 Title: Calibration Specialist
 Signature: *Bassem H. Hesham*
 Date: 05 Apr 2025

Prepared by
 Noha Essam
 Senior Technical Office Specialist
 Signature: *Noha Essam*
 Date: 06 Apr 2025

Reviewed & Approved By
 Ahmed Tarek
 Technical Manager



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CALIBRATION CERTIFICATE



TAG LAB

On Site

Certificate No.: 001 - 001 - 100 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-o8	Serial Number:	1010161113
Code:	1010161113	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE

Certificate No.: 001 - 001 - 100 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-25.5	0.5	0.19	Pass
2.00	1.7	0.3	0.19	Pass
8.00	7.8	0.2	0.19	Pass
15.00	14.7	0.3	0.19	Pass
40.00	39.7	0.3	0.19	Pass
70.00	70.3	-0.3	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.5 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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CALIBRATION CERTIFICATE

TAG LAB ☒ On Site ☐

Certificate No.: 001 - 001 - 114 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010161121
Code:	1010161121	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 114 - 2025

Reading Information °C				
Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.8	-0.2	0.19	Pass
2.00	2.3	-0.3	0.19	Pass
8.00	8.2	-0.2	0.19	Pass
15.00	15.3	-0.3	0.19	Pass
40.00	40.4	-0.4	0.19	Pass
70.00	69.6	0.4	0.19	Pass

Environmental Conditions During Calibration	
Temperature:	23 $\pm$ 5 °C
Relative Humidity:	45 $\pm$ 15 %
Pressure:	1.013 bar

Calibration Results °C	
Max. Reading Error:	0.4 °C
Acceptance Criteria:	$\pm$ 0.5 °C
Uncertainty:	$\pm$ 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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CALIBRATION CERTIFICATE



TAG
CALIBRATION

TAG LAB

On Site

Certificate No.: 001 - 001 - 145 - 2025

Customer Information

Customer: TAG LAB
Address: 6th of October City
Email/Tel: info@technoairgate.com

Instrument Under Calibration Information

Instrument Name:	Data Logger	Resolution:	0.1 °C
Manufacture:	LOG TAG	Accuracy:	NA
Model:	HAXO-08	Serial Number:	1010161122
Code:	1010161122	Range:	((-40) - 85) °C
Location:	TAG LAB		

Reference Instrument Information

Instrument Name:	Pt-100 with digital indicator	Resolution:	0.01 °C
Manufacture:	GREISINGER	Serial Number:	32403245/117
Model:	GMH 3710		

Remarks

Calibration Method: Comparison method using Digital thermometer of accuracy $\pm 0.03^{\circ}\text{C}$ Full Range based on Calibration Method for Temperature Dataloggers CM-T&RH-002 based on DKD-R 5-8 (Edition 10/2019).

Uncertainty: The reported expanded uncertainty is based on GUM Standard and the standard Uncertainty multiplied by coverage factor k_p value to give confidence level of 95%.

Traceability: The traceability of measurement results to the SI units calibrated by the National Standard maintained at NIS with Certificate No. (1459/32C002/161/1774/2024).

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CALIBRATION CERTIFICATE



Certificate No.: 001 - 001 - 145 - 2025

Reading Information °C

Reference Reading ts °C	Reading tm °C	Correction $\Delta t = t_s - t_m$ °C	Uncertainty ($\pm$ °C)	Pass/Fail
-25.00	-24.6	-0.4	0.19	Pass
2.00	2.2	-0.2	0.19	Pass
8.00	8.3	-0.3	0.19	Pass
15.00	15.2	-0.2	0.19	Pass
40.00	40.3	-0.3	0.19	Pass
70.00	70.4	-0.4	0.19	Pass

Environmental Conditions During Calibration

Temperature: 23 ± 5 °C
Relative Humidity: 45 ± 15 %
Pressure: 1.013 bar

Calibration Results °C

Max. Reading Error: 0.4 °C
Acceptance Criteria: ± 0.5 °C
Uncertainty: ± 0.19 °C

Acceptance Criteria is According to Customer Requirement.

Received Date

05 Apr 2025

Issue Date

06 Apr 2025

Calibration Date

05 Apr 2025

Calibration Due

04 Oct 2025

Calibrated By

Name: Bassem Hesham

Title: Calibration Specialist

Signature: *Bassem H. Hesham*

Date: 05 Apr 2025

Prepared by

Noha Essam

Senior Technical Office Specialist

Noha Essam

06 Apr 2025

Reviewed & Approved By

Ahmed Tarek

Technical Manager

Ahmed Tarek

06 Apr 2025



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UTOPIA

THE LIFE YOU DESERVE

Vol 01) Annex 01.02)
Turn Over Package
Refrigerator (QC-REF-06)



Jun., 2025

Rev. No.: 00

Doc. No.: TOP-Q-00525

F-7.4/35
Issue Date:02/02/2025

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VOL-01) PERFORMANCE QUALIFICATION PROTOCOL

ANNEX 01.02.01

ATTACHMENTS

ATTACHMENTS 01.02.01.07

Inspection Certificate



Certificate No.: PQ-005-2025

**Certificate
of
Performance Qualification Execution
for Refrigerator
(QC-REF-06)
at UTOPIA PHARMACEUTICALS
Executed By
Techno Air Gate Company (TAG)
Egypt**

The inspection test was performed in compliance with the requirements of ISO/IEC 17020/2012, and this certificate confirms that Refrigerator fulfills the required acceptance criteria.

Inspection Date:
02/06/2025

Certificate Issue Date:
11/06/2025

This certificate relates to report no.:
PQR-M-00525

Prepared By

M. Hass

Head of Department



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F-7.4/02

Issue No.: 01.0

Ver. No.: 01



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