

Progress on CCT-K7.2021: CIPM Key Comparison of Triple Point of Water cells

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30th Meeting of CCT – Session 2

8 February 2022



Technical Protocol

➤ January 7th, 2021: Protocol approved by WG-KC

- NRC pilot
- 19 participating institutes
- Coordinating group:
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Accepted timeline

| Date | Activity |
|--|--|
| April 1 st , 2021 | Start date: the participants select the transfer cell and compare it to the national reference (if available, compare CCT-K7 to national reference) |
| June 30 th , 2021 | Deadline for the delivery of the transfer cell and the corresponding measurement results to the pilot |
| June 30 th , 2021 to December 31 st 2021 | The pilot compares all transfer cells |
| January 1 st , 2022 | From this date the participants can retrieve their transfer cell |
| March 31 st , 2022 | Deadline for the completion of the return measurements at the participant laboratories and for the delivery of the return measurement results to the pilot |
| June 30 th , 2022 | Deadline for the preparation of the Draft A report |

Status at end January 2022

- Delivered transfer cells
- Delivered measurement reports
- Measured transfer cells
 - Anomalous behavior of transfer cells
- Transfer cells to be measured

| Participant | Cell delivered | Cell status at delivery | Report delivered | Measured cells | Anomalous cells | Replacement cell | Replacement cell status at delivery | Cells to be measured |
|-------------|----------------|-------------------------|------------------|----------------|-----------------|------------------|-------------------------------------|----------------------|
| A | Jul-21 | Undamaged | | B3 | | | | |
| B | Nov-21 | Undamaged | Nov-21 | | | | | B4 |
| C | Aug-21 | Broken | Oct-21 | B3 | | Oct-21 | Undamaged | |
| D | Jul-21 | Undamaged | Jul-21 | B1 | drifting | Nov-21 | Broken, lab withdraws | |
| E | Jul-21 | Undamaged | Oct-21 | B1 | | | | |
| F | Jul-21 | Undamaged | Jul-21 | B3 | | | | |
| G | Aug-21 | Undamaged | | B2 | | | | |
| H | Jul-21 | Undamaged | Oct-21 | B1 | drifting | Nov-21 Jan-22 | Broken Undamaged | B4 |
| I | Nov-21 | Undamaged | | | | | | B4 |
| J | Oct-21 | Undamaged | | | | | | B4 |
| K | Jul-21 | Undamaged | | B3 | | | | |
| L | Jul-21 | Undamaged | | B2 | | | | |
| M | Jun-21 | Undamaged | Jun-21 | B3 | | | | |
| N | Jul-21 | Undamaged | Jun-21 | B2 | | | | |
| O | Aug-21 | Undamaged | Jan-22 | B2 | | | | |
| P | Jul-21 | Undamaged | | B2 | drifting | Jan-22 | Undamaged | B4 |
| Q | Jun-21 | Undamaged | Jun-21 | B1 | | | | |
| R | Jul-21 | Undamaged | Jan-22 | B1 | | | | |
| 18 | 18 | 17 | 11 | 15 | 3 | 5 | - | 5 |

Plan to bring it to completion

- **February 28th, 2022:** Last batch of measurements (B4) completed (2 month delay)
- **June 30th, 2022:** Draft A (on time!)

THANK YOU

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