

**To:**

Daniel Bombas

Validation Engineer

**Copy:**

N.A.

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**From:**

Lucyna Wolniakowska – Kulas

KET Laboratory

Quality Lab Technician

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**Object:** UNISTREET MINI \_DIE CAST SAETA\_ report after 1000h.

**Product description:**

**Brand:** Philips

**Family name:** Unistreet/Lumisreet Gen2\_Mini

**Family code:** BGP282I

**Tests according to:**

☒ QS 014207

☒ ASTM B 117/ISO 9227

☒ ASTM D1654

**Test Equipment:**

☒ Salt chamber 1

☒ Thickness apparatus

☐ Container with demineralized water

☒ Cross test apparatus

☒ Adhesive

**Test Results:**

☐ PASS / ☒ N/A

☐ FAIL

**Tested by:**

☒ Lucyna Wolniakowska- Kulas

☐ Dalida Fuks

☐ Michał Szepietowski

☐ Piotr Jakubiec

☐ Konrad Micinski

☐ Andrzej Haluszka

**Approved by:**

☒ Dariusz Pierzchanowski

**Test date:** 18.10.2021. to 30.11.2021

**Issue date:** 30.11.2021

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## 1. Thickness measurements

Maximum coating thickness on parts thickness shall never exceed 250 µm layer thickness unless otherwise stated

### Program:

☐

thickness= 60 µm for standard single layer painting

☒

thickness= 120 µm for double layer MSP painting and double layer SPW painting

SAMPLE	*Area 1 (µm)	*Area 2 (µm)	*Area 3 (µm)
Sample 2	162	153	173
Sample 3	144	141	190

## 2. Evaluation from a distance 3m

SAMPLE	P	F	N/A	Comments
Sample 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Smooth coating without bubbles
Sample 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Smooth coating without bubbles

Test result	PASS	FAIL	N/A
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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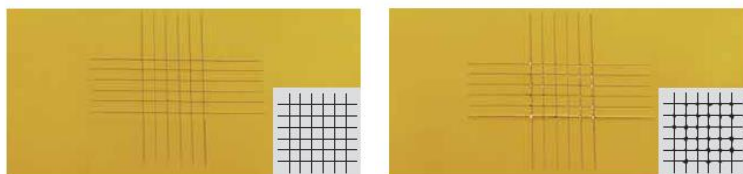
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### 3. Cross cut test

**Evaluation: Adhesion: acceptable level between level 0 and 1**

Level 0 total surface remove 0%

Level 1 total surface remove below 5%



**Before SST:**

SAMPLE		Level in Area *1	Level in Area *2	Level in Area *3	P	F	NA
Sample 2		0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample 3		0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Test result	PASS	FAIL	N/A
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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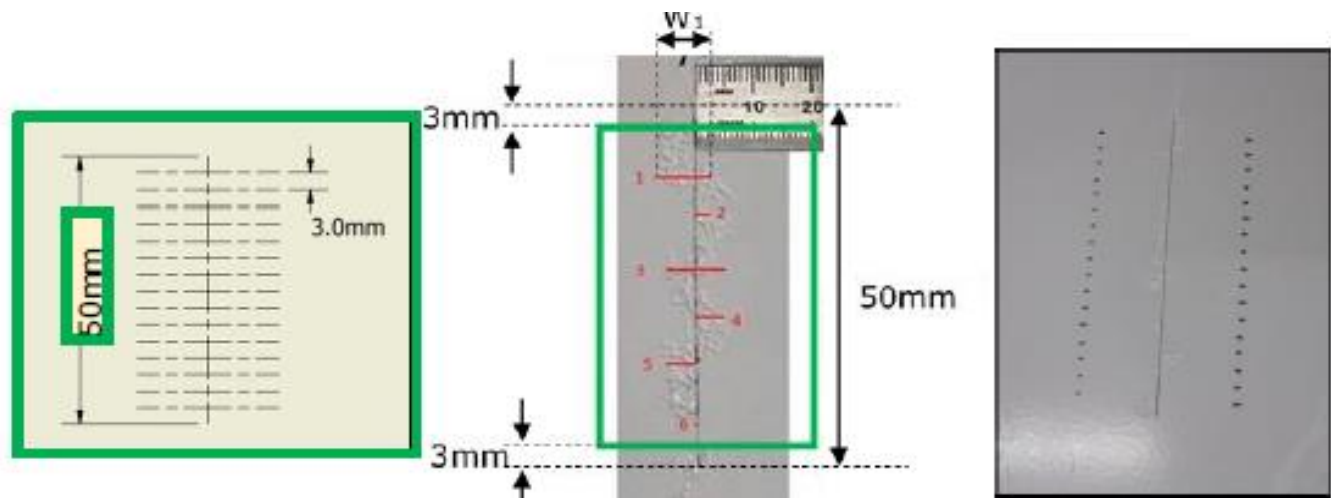
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4. Salt test

Filiform corrosion assessed according ASTM D1654:



Creep (mm)	Rating
0	10
0-0.5	9
0.5-1.0	8
1.0-2.0	7
2.0-3.0	6
3.0-5.0	5
5.0-7.0	4
7.0-10.0	3
10.0-13.0	2
13.0-16.0	1
>16.0	0

Tab. Rating levels based on creep assessment (from ASTM D1654)

**Check after 1000h MSP: C = CROSS (CREEP Level)**

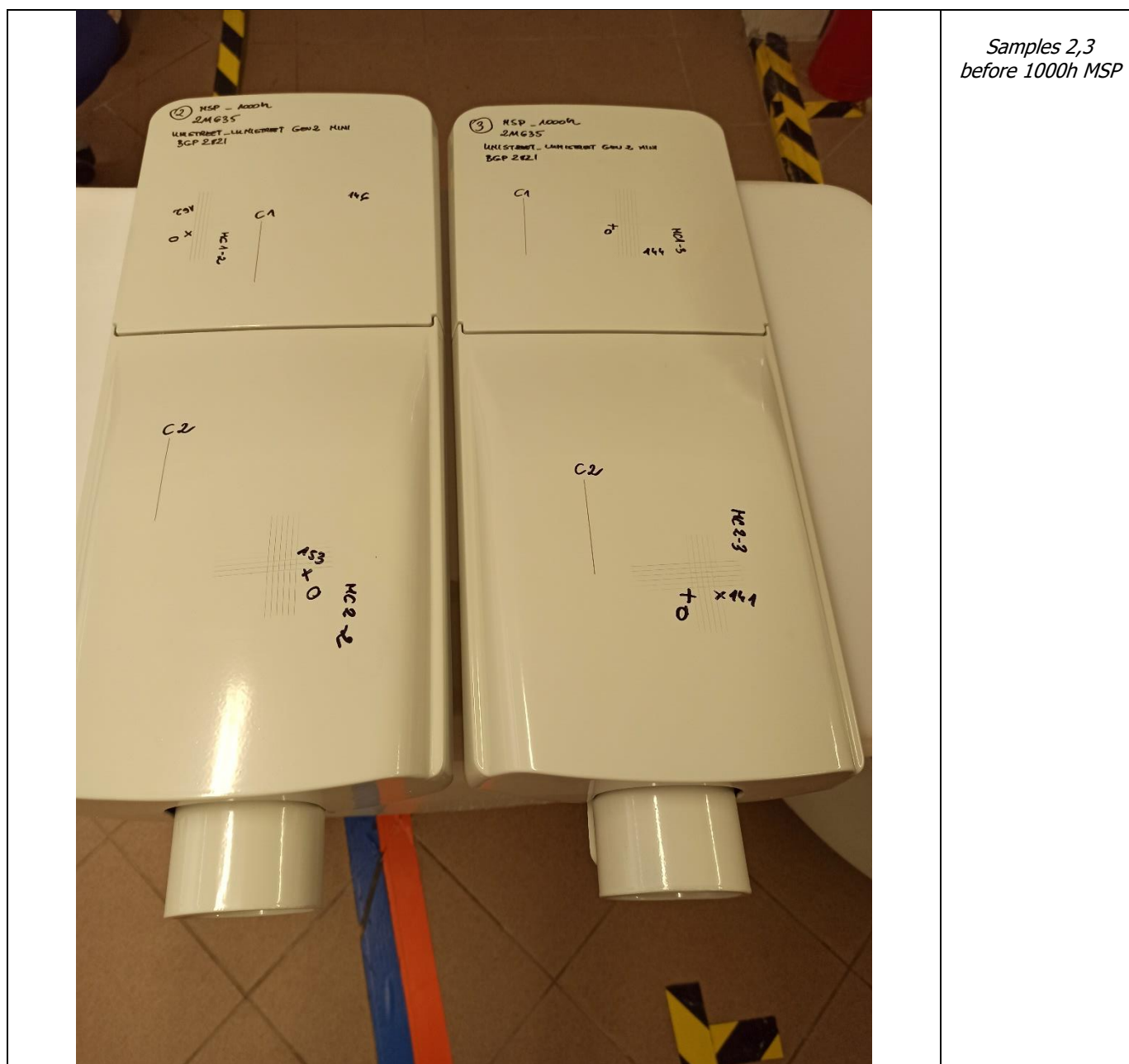
SAMPLE		CREEP	Creep level
Sample 2		C1	9
		C2	9
		C3	10
Sample 3		C1	8
		C2	9
		C3	9

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*Samples 2,3  
before 1000h MSP*



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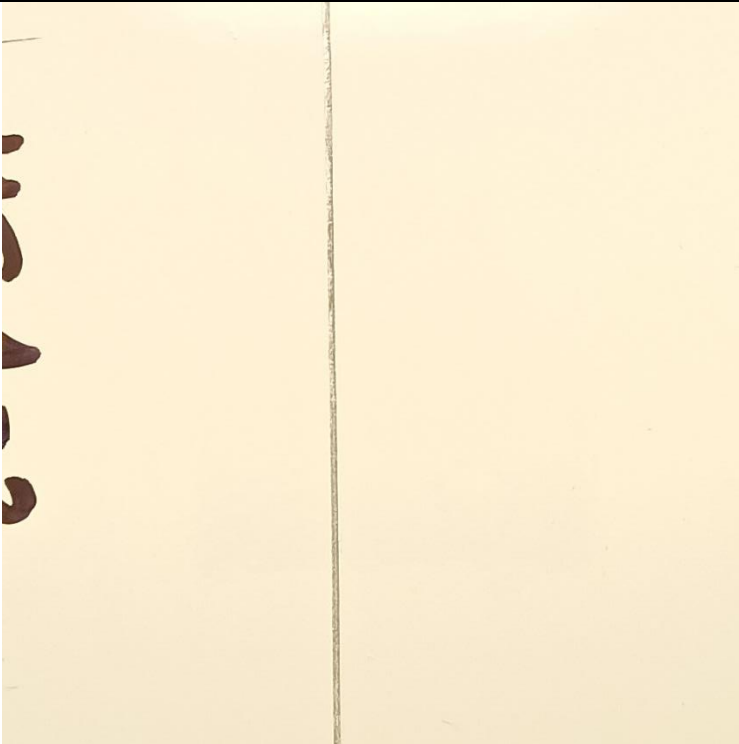
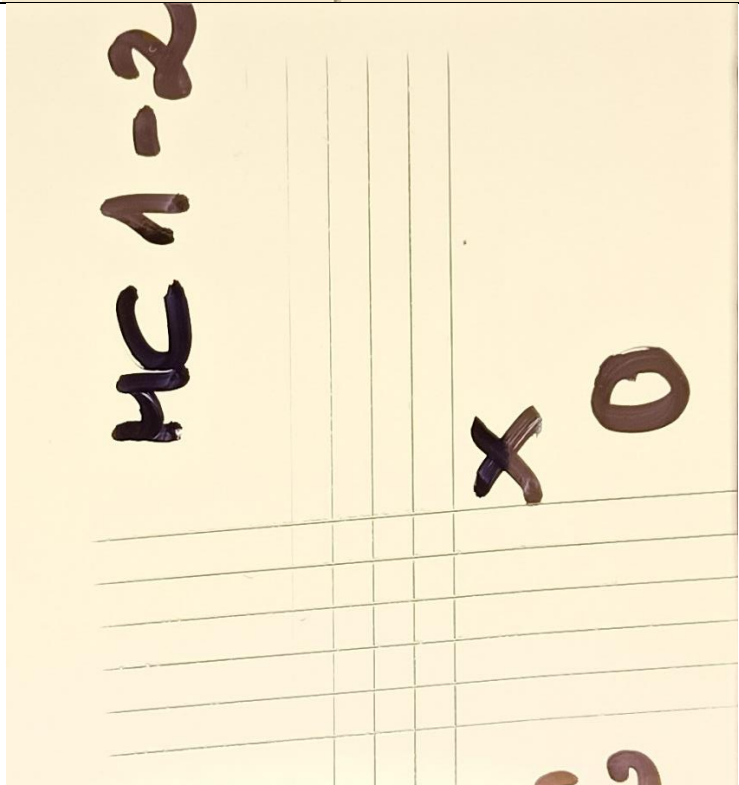
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			<i>Sample 2, before 1000h MSP</i>
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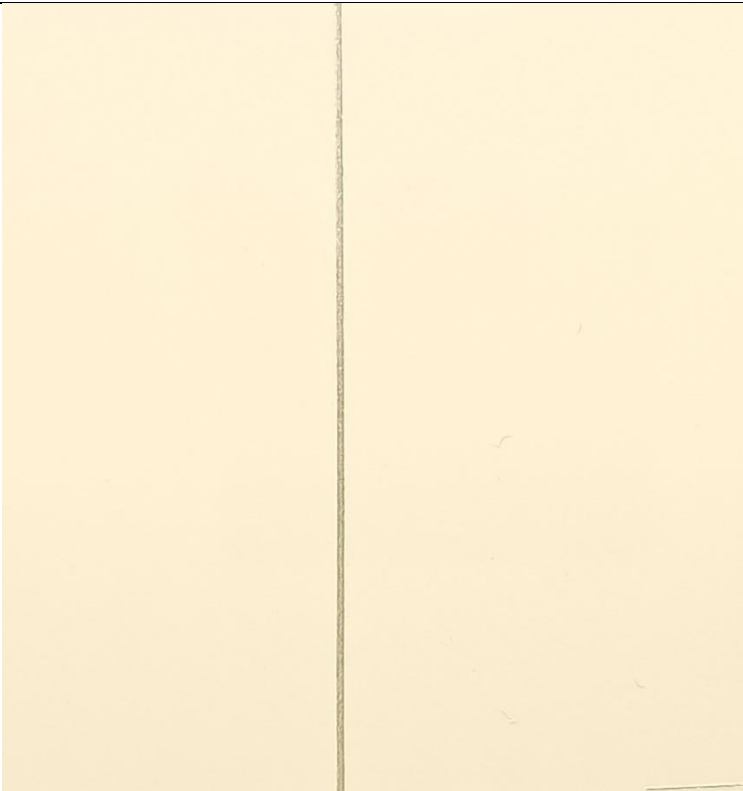
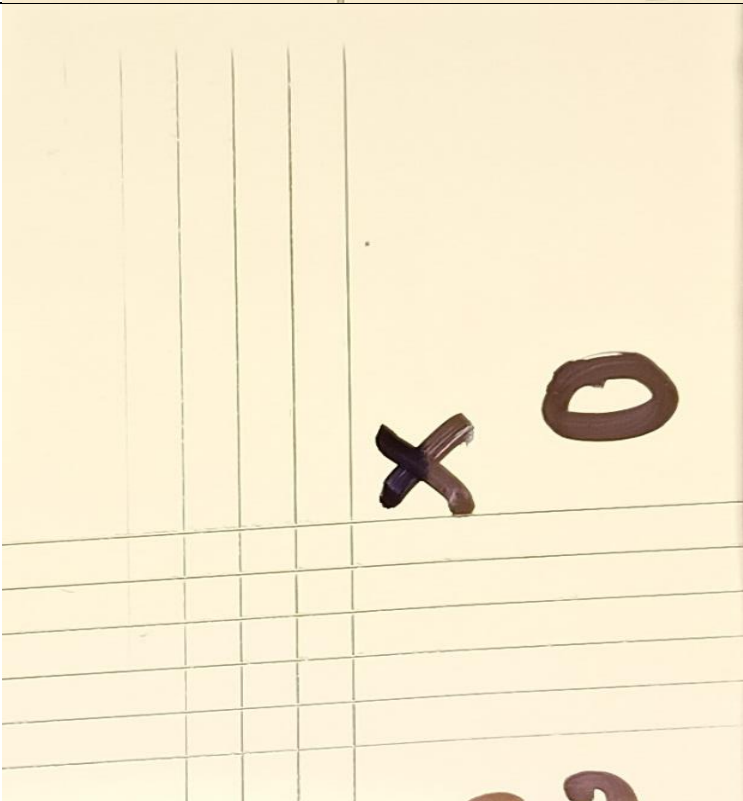
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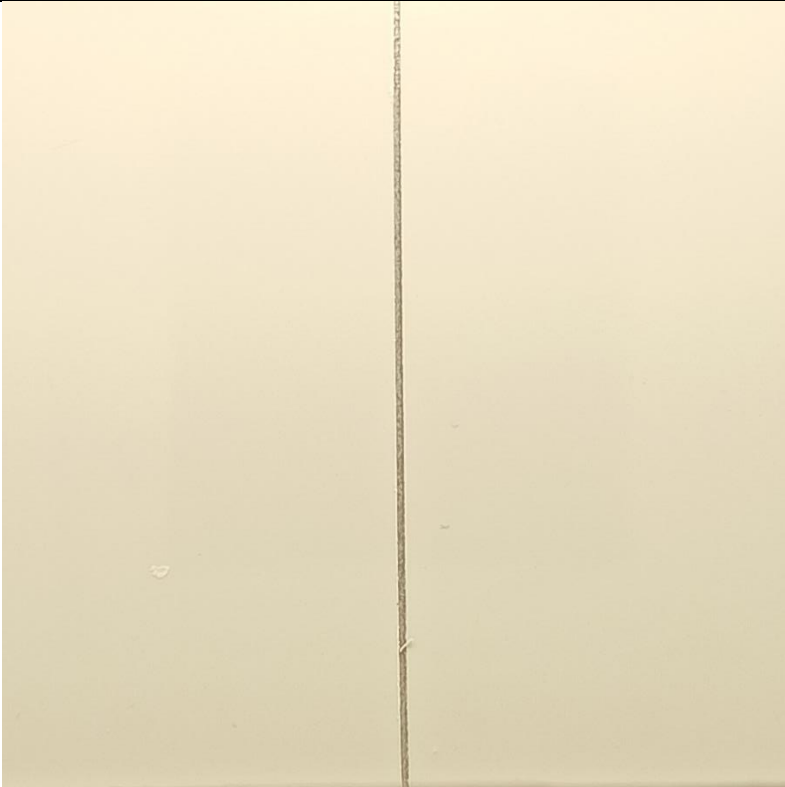
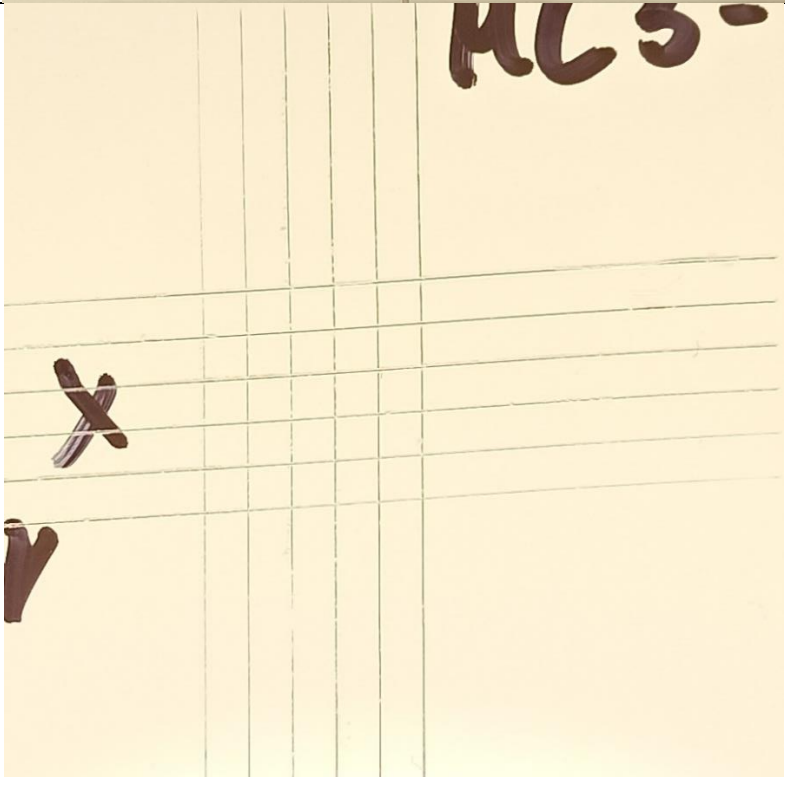
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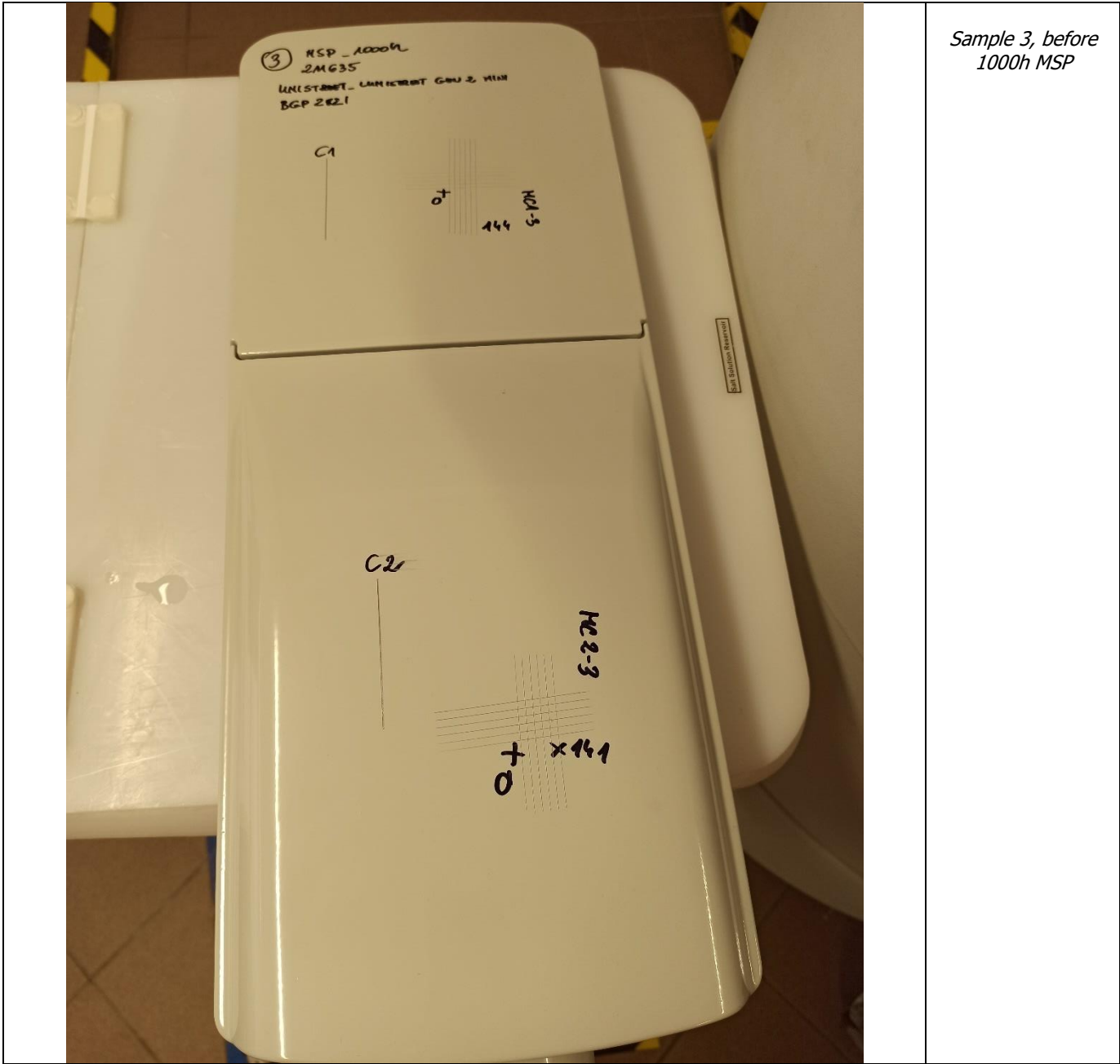
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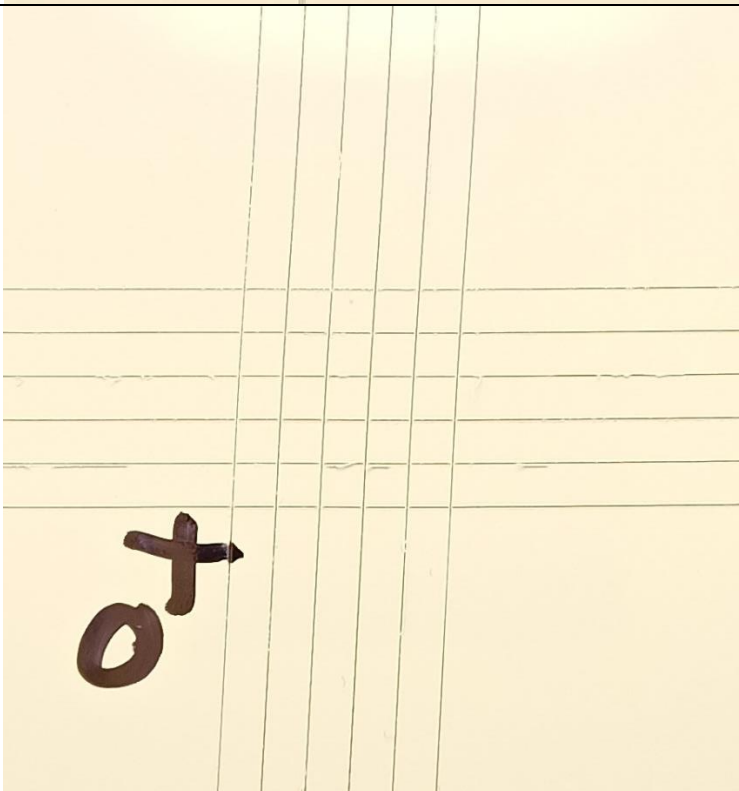
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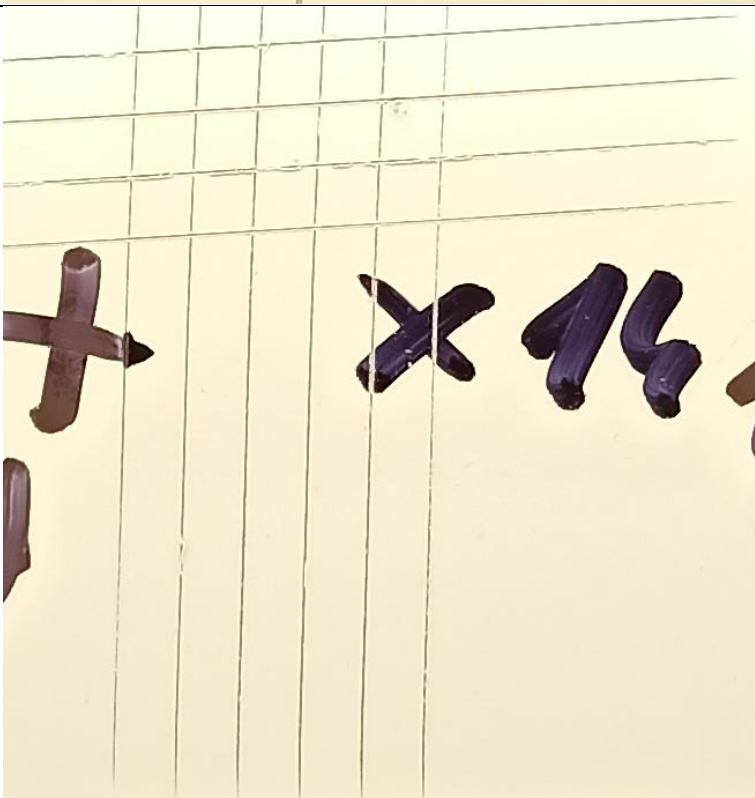
			<i>Sample 3, before 1000h MSP</i>
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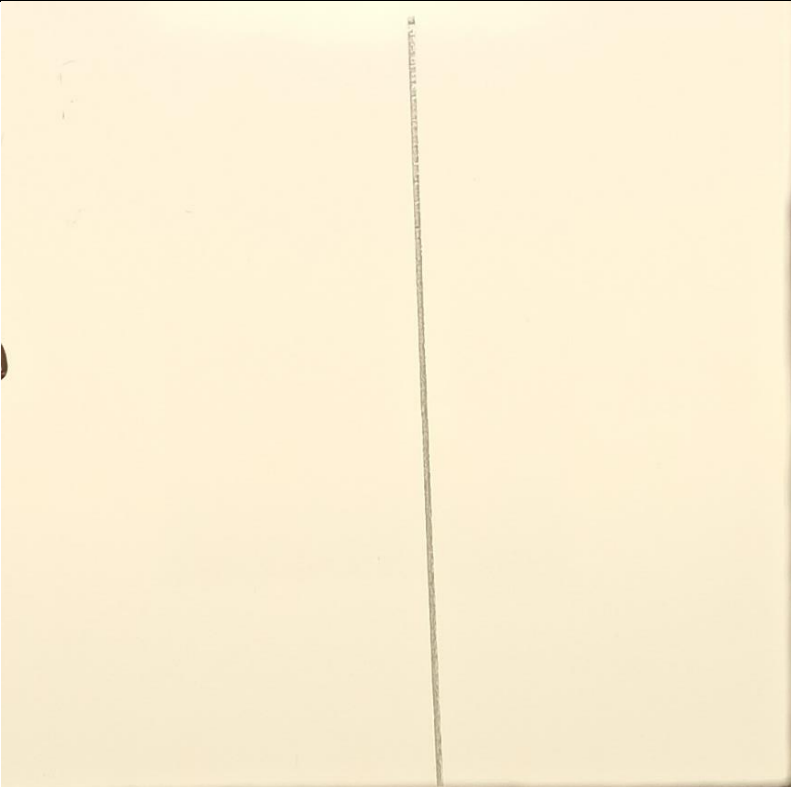
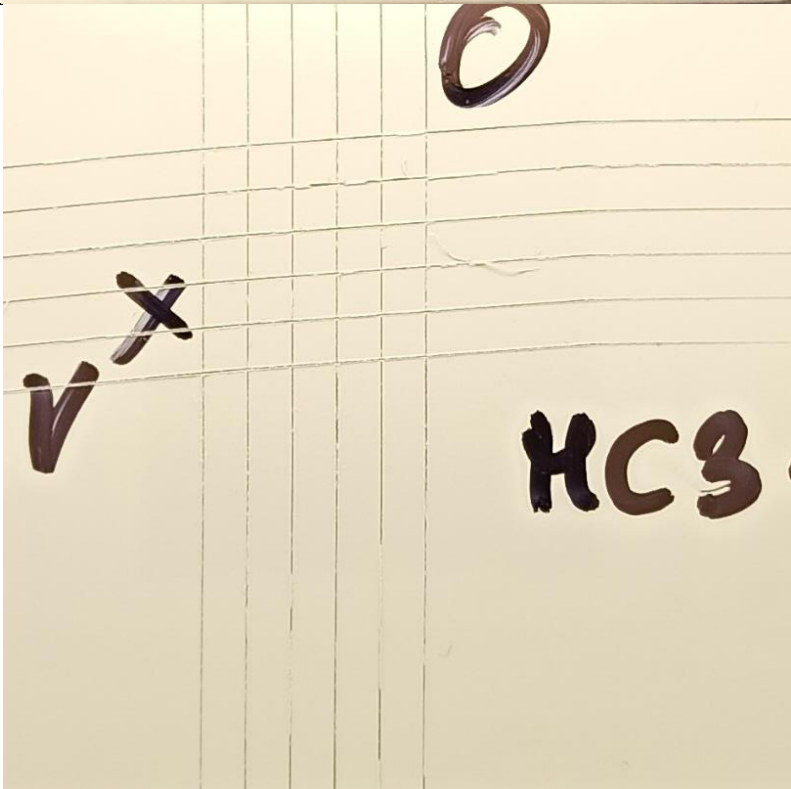
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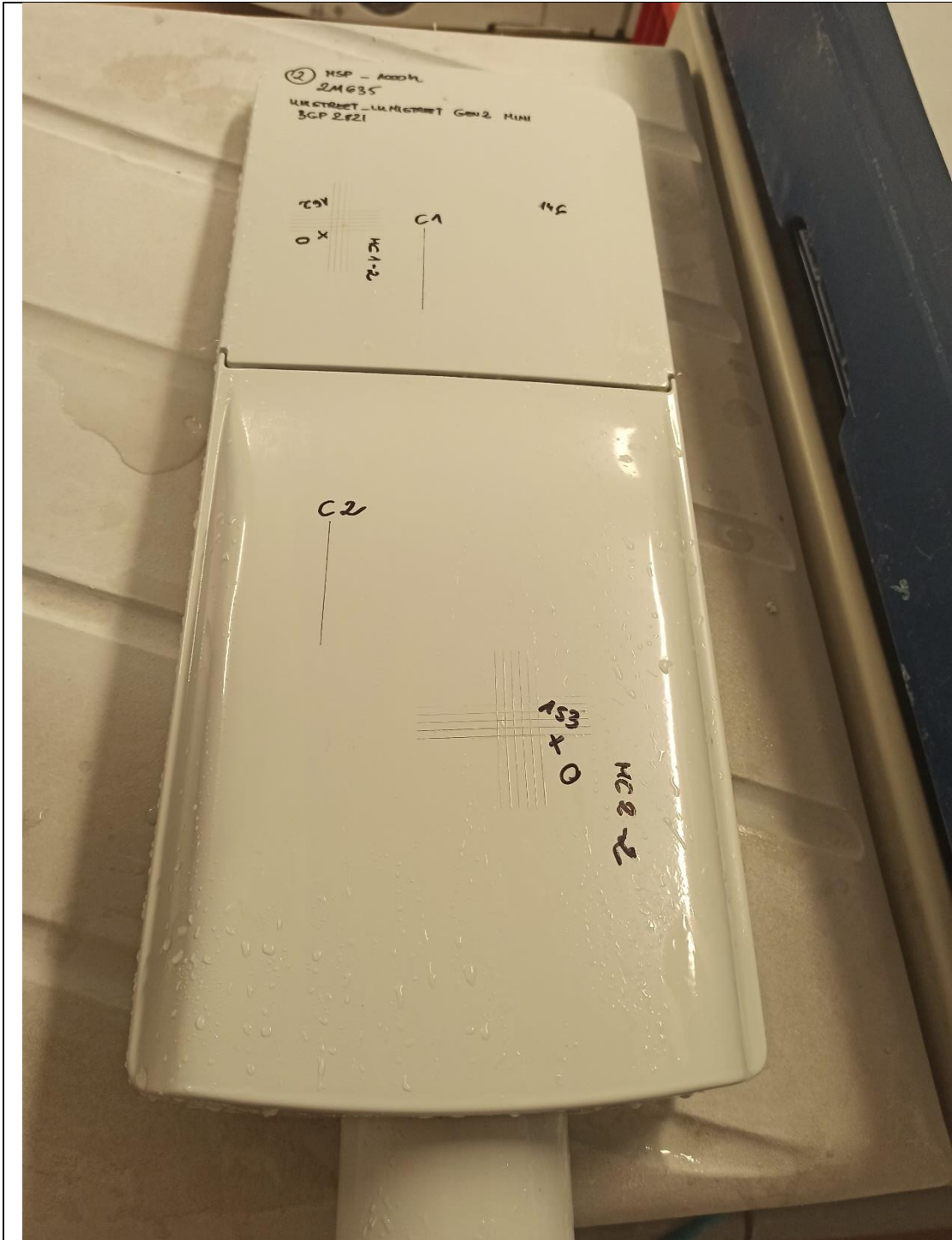
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Samples 2, after  
1000h MSP

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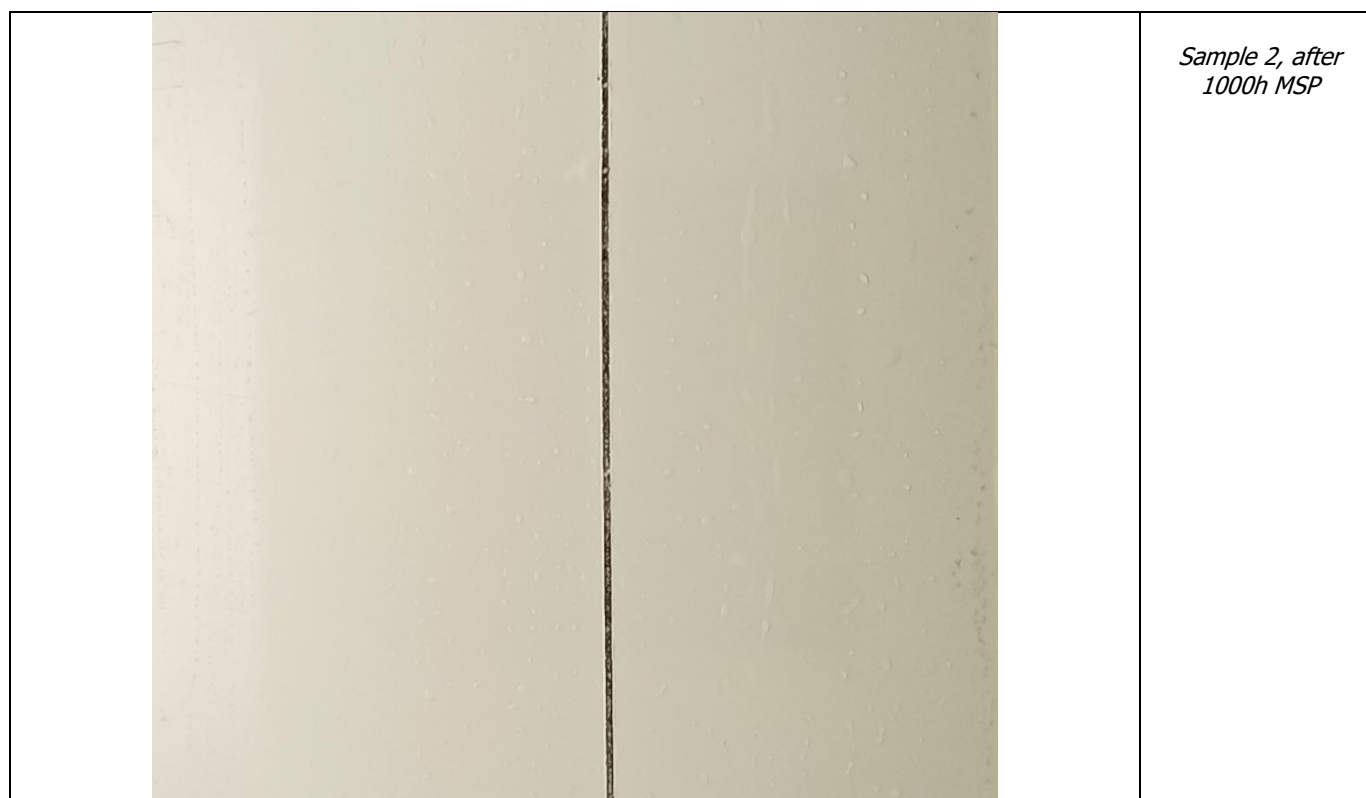
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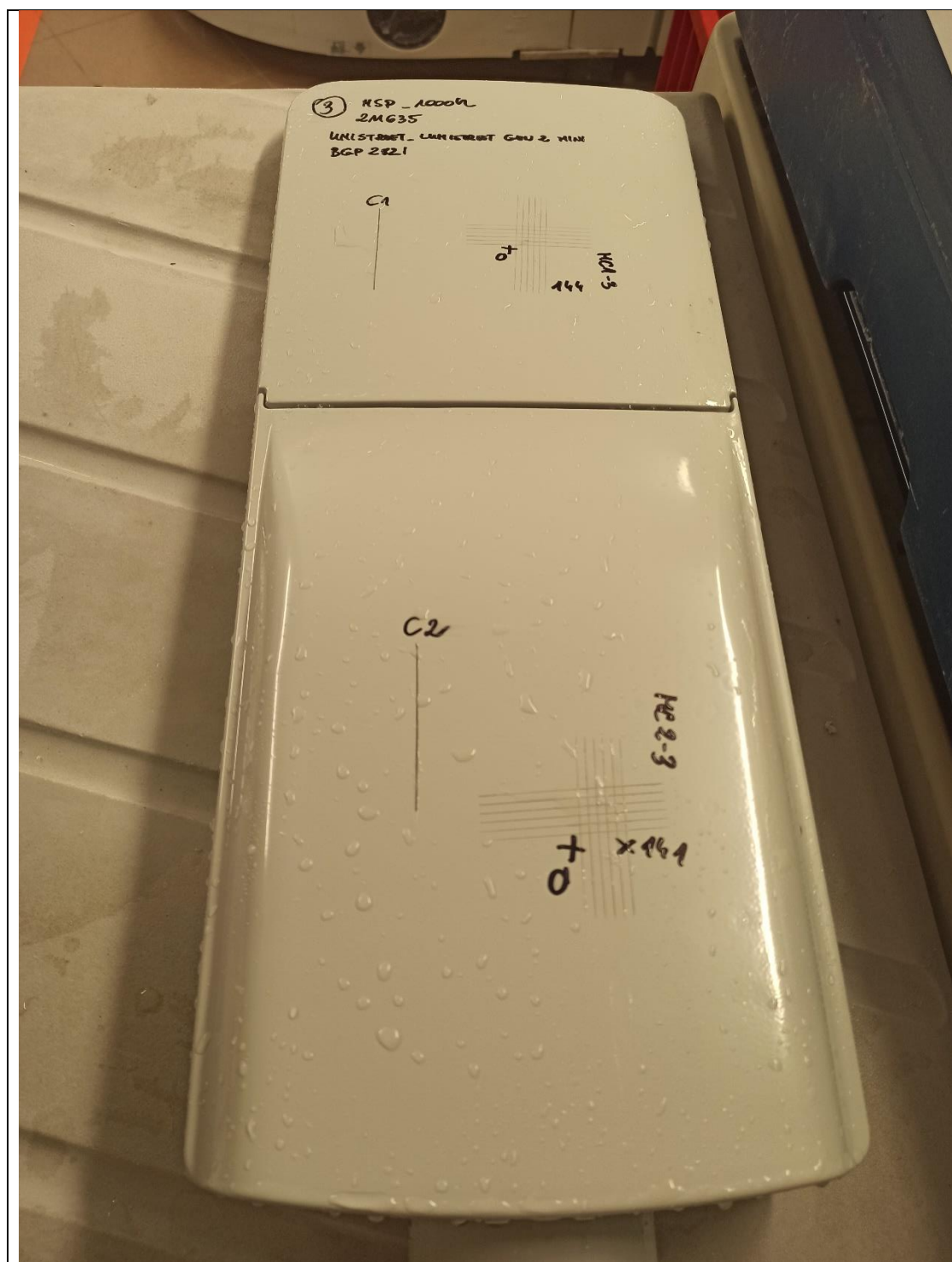


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Sample 3, after  
1000h MSP

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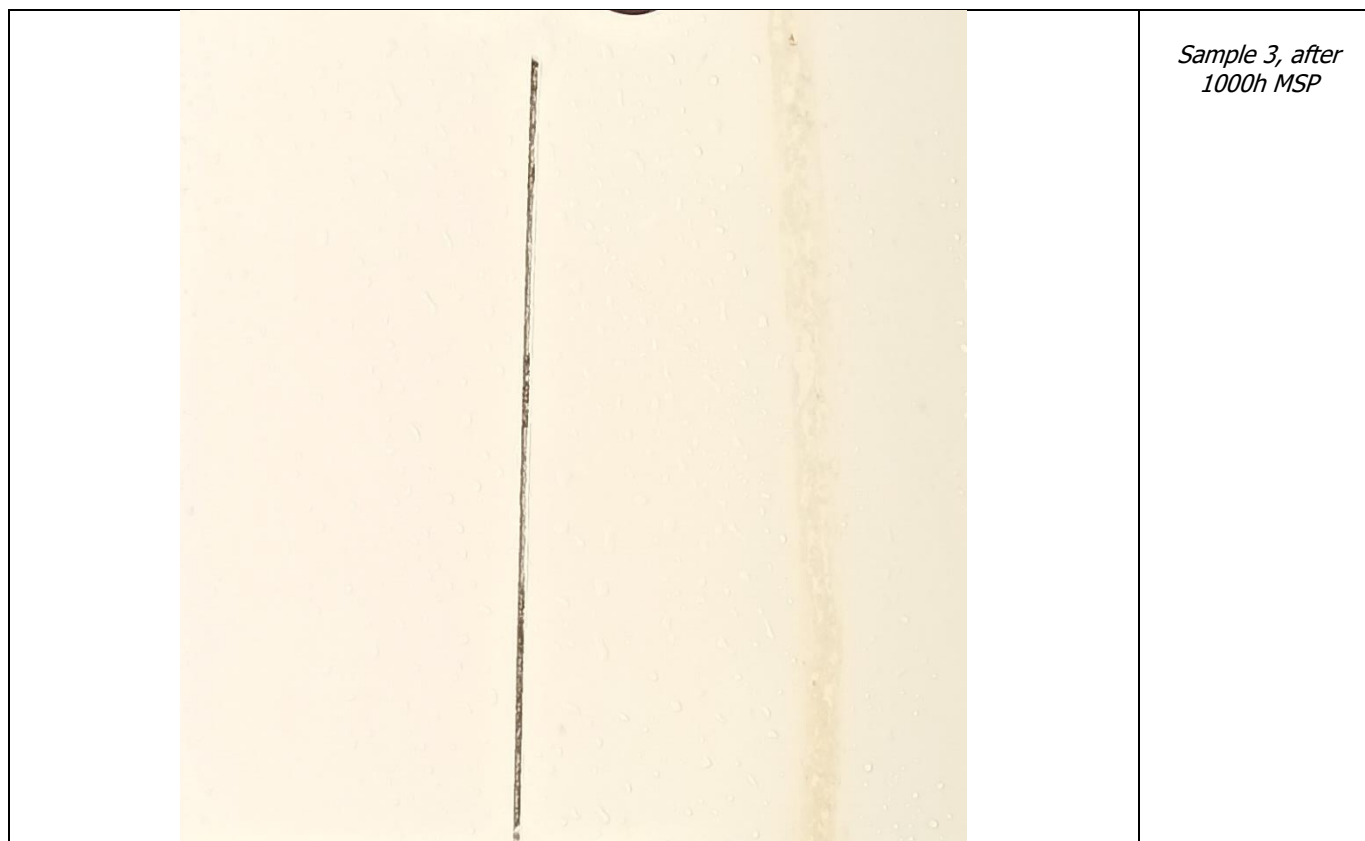
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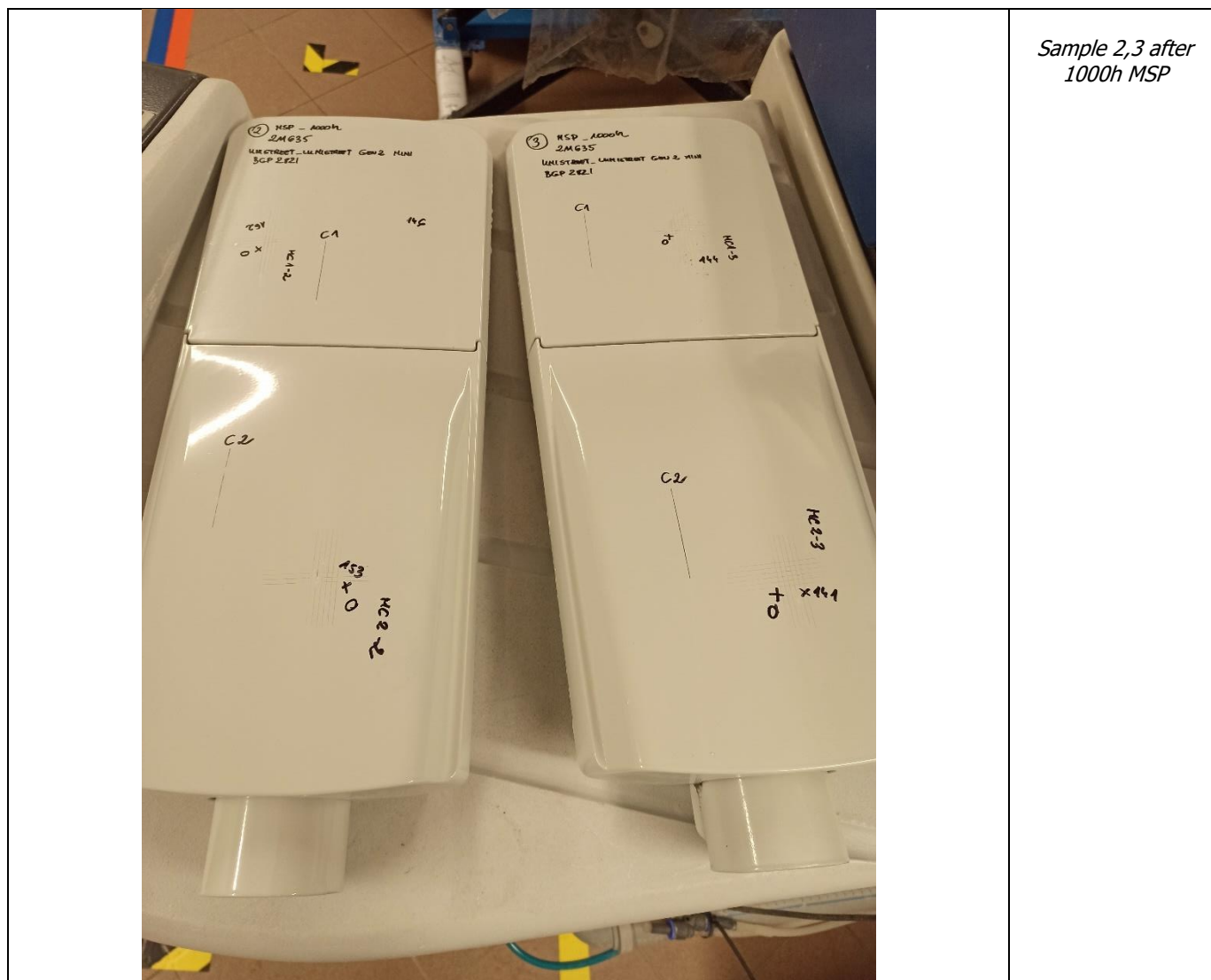


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*Sample 2,3 after  
1000h MSP*

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CONCLUSIONS AND REMARKS

Test result	PASS	FAIL	N/A
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>