

PS 1377

OPAL-Bestimmung
-Labor-Protokoll-

29.01.01

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|---------------------------|---------------|------|-----|--------------------------|--------------|------|-----|-------------------|-------------|
| | Probe (Station/Tiefe/Typ) | Einwaage (mg) | Skl | mV | SiO ₂ (Gew.%) | Konz. (mg/l) | Skl | mV | Faktor (Konz/Skl) | |
| | 1.06 | 20,1 | 10,4 | 100 | | 10mg | 18,0 | 100 | | Blau |
| | 5.06 | 20,7 | 8,5 | --- | | 5mg | 10,2 | --- | | Rot |
| | 20.06 | 20,9 | 5,2 | --- | | 10mg | 18,2 | --- | | Grün |
| | 10.06 | 20,7 | 6,1 | --- | | 5mg | 10,0 | --- | | Weiß |
| | 15.06 | 21,7 | 7,6 | --- | | | | --- | | Blau |
| | 25.06 | 21,3 | 10,9 | --- | | | | --- | | Rot |
| | 30.06 | 21,6 | 3,6 | --- | | | | --- | | Grün |
| | 35.06 | 20,2 | 2,7 | --- | | | | --- | | Weiß |
| | | | | | | 5mg | 9,0 | 100 | | Blau |
| | | | | | | 10mg | 20,8 | 100 | | Rot |
| | | | | | | 5mg | 9,1 | 100 | | Grün |
| | | | | | | 10mg | 19,9 | 100 | | Weiß |

$$\text{SiO}_2 (\%) = \frac{\text{Skl(Probe)} \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}}$$

$$\frac{\text{mV (Probe)}}{\text{mV (Standard)}}$$

PS 1377

OPAL-Bestimmung
-Labor-Protokoll-

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| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|---------------------------|---------------|------|----|--------------|-----------------|------|-----|-------------------|-------------|
| | Probe (Station/Tiefe/Typ) | Einwaage (mg) | Skl | mV | SiO2 (Gew.%) | Konz. (mg/l) | Skl | mV | Faktor (Konz/Skl) | |
| | 40 06 | 20,9 | 5,1 | 50 | | 20mg | | 500 | | Blau |
| | 3/1377-28L | 21,4 | 6,9 | 50 | | 5mg | | 500 | | Rot |
| | 10 | 21,7 | 8,4 | 50 | | 10mg | | 500 | | Grün |
| | 20 | 21,0 | 7,0 | 50 | | 5mg | | 500 | | Weiß |
| | 30 | 20,5 | 13,2 | 50 | | 2mg | 7,0 | 50 | | Blau |
| | 40 | 20,1 | 8,0 | 50 | | 5mg | 19,0 | - | | Rot |
| | 50 | 21,4 | 8,6 | 50 | | 2mg | 7,3 | - | | Grün |
| | 60 | 21,9 | 8,1 | 50 | | 5mg | 20,0 | - | | Weiß |
| | 70 | 21,5 | 9,1 | - | | 5mg | 18,5 | - | | Blau |
| | 80 | 21,5 | 3,8 | - | | 2mg | 8,0 | - | | Rot |
| | 90 | 21,0 | 6,0 | - | | 5mg | 18,2 | - | | Grün |
| | 100 | 21,7 | 7,9 | - | | 2mg | 8,1 | - | | Weiß |

$$\text{SiO}_2 (\%) = \frac{\text{Skl(Probe)} \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}}$$

$$\text{Faktor} = \frac{\text{mV (Probe)}}{\text{mV (Standard)}}$$

PS. 13.77

30.01.01

OPAL-Bestimmung
-Labor-Protokoll-

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|--------------------------|---------------|------|----|--------------|--------------|------|----|-------------------|-------------|
| | Probe (Station/Teil/Typ) | Einwaage (mg) | SkI | mV | SiO2 (Gew.%) | Konz. (mg/l) | SkI | mV | Faktor (Konz/SkI) | |
| | 110 | 20,1 | 9,5 | 50 | | | | | | Blau |
| | 120 | 20,8 | 6,7 | — | | | | | | Rot |
| | 130 | 20,4 | 7,8 | — | | | | | | Grün |
| | 140 | 20,2 | 6,5 | — | | | | | | Weiß |
| | 150 | 21,7 | 11,0 | — | | | | | | Blau |
| | — | | | — | | | | | | Rot |
| | 160 | 21,3 | 4,1 | — | | | | | | Grün |
| | 170 | 21,5 | 7,9 | — | | | | | | Weiß |
| | 180 | 22,4 | 9,2 | — | | 2 | 7,3 | 50 | | Blau |
| | 190 | 21,5 | 7,0 | — | | 5 | 20,0 | — | | Rot |
| | 200 | 21,8 | 9,6 | — | | 2 | 6,9 | — | | Grün |
| | 210 | 21,8 | 9,8 | — | | 5 | 20,7 | — | | Weiß |

$$\text{SiO}_2 (\%) = \frac{\text{SkI(Probe)} \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}}$$

$$\frac{\text{mV (Probe)}}{\text{mV (Standard)}}$$

PS 1377

31.01.01

OPAL-Bestimmung
-Labor-Protokoll-

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|--------------------------|---------------|------|----|--------------|--------------|------|----|-------------------|-------------|
| | Probe (Station/Teil/Typ) | Einwaage (mg) | SkI | mV | SiO2 (Gew.%) | Konz. (mg/l) | SkI | mV | Faktor (Konz/SkI) | |
| | 220 | 21,2 | 12,2 | 50 | | 2 | 7,1 | 50 | | Blau |
| | | | | | | 5 | | " | | Rot |
| | 230 | 22,1 | 11,0 | " | | 2 | 6,4 | " | | Grün |
| | 240 | 23,1 | 6,1 | " | | 5 | 20,0 | " | | Weiß |
| | 250 | 22,2 | 9,9 | " | | 5 | 18,9 | " | | Blau |
| | | | | | | 2 | 8,0 | | | Rot |
| | 260 | 22,1 | 7,3 | " | | 5 | 17,4 | " | | Grün |
| | 270 | 21,3 | 10,3 | " | | 2 | 8,0 | " | | Weiß |
| | 280 | 22,6 | 9,9 | " | | | | | | Blau |
| | 290 | 22,4 | 10,8 | " | | 5 | 19,9 | " | | Rot |
| | 300 | 22,4 | 10,0 | " | | | | | | Grün |
| | 310 | 22,9 | 14,5 | " | | | | | | Weiß |

$$\text{SiO}_2 (\%) = \frac{\text{SkI(Probe)} \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}}$$

$$\frac{\text{mV (Probe)}}{\text{mV (Standard)}}$$

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OPAL-Bestimmung
-Labor-Protokoll-

31.01.01

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|---------------------------|---------------|------|--------------|--------------|--------------|------|----|-------------------|-------------|
| | Probe (Station/Titel/Typ) | Einwaage (mg) | Skf | mV | SiO2 (Gew.%) | Konz. (mg/l) | Skf | mV | Faktor (Konz/Skf) | |
| | 320 | 21,3 | 11,3 | 50 | | | | | | Blau |
| | 330 | 23,2 | 11,0 | " | | | | | | Rot |
| | 340 | 22,3 | 9,2 | " | | | | | | Grün |
| | 350 | 22,1 | 10,3 | " | | | | | | Weiß |
| | 360 | 22,9 | 11,1 | " | | 2 | 7,0 | 50 | | Blau |
| | 370 | 21,7 | 9,8 | " | | 5 | 21,0 | " | | Rot |
| | 380 | 23,6 | 6,1 | " | | 2 | 7,1 | " | | Grün |
| | 390 | 23,5 | 13,1 | " | | 5 | 20,8 | " | | Weiß |
| | 400 | | | " | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

$$\text{SiO}_2 (\%) = \frac{\text{Skf}(\text{Probe}) \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}}$$

$$\frac{\text{mV}(\text{Probe})}{\text{mV}(\text{Standard})}$$

PS 1377-2SL

OPAL-Bestimmung
-Labor-Protokoll-

01.02.01

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|---------------------------|---------------|------|-----|--------------|--------------|------|-----|-------------------|-------------|
| | Probe (Station/Tiefe/Typ) | Einwaage (mg) | SkI | mV | SiO2 (Gew.%) | Konz. (mg/l) | SkI | mV | Faktor (Konz/SkI) | |
| | 400 | 20,4 | 8,9 | 50 | | 2 | 7,4 | 50 | | Blau |
| | 410 | 20,9 | 14,0 | -"- | | 5 | 20,1 | -"- | | Rot |
| | 420 | 21,6 | 7,5 | -"- | | 2 | 7,0 | -"- | | Grün |
| | 430 | 21,6 | 6,5 | -"- | | 5 | 20,1 | -"- | | Weiß |
| | 440 | 20,1 | 9,4 | -"- | | 5 | 19,0 | -"- | | Blau |
| | 450 | 21,2 | 14,7 | -"- | | 2 | 8,1 | -"- | | Rot |
| | 460 | 22,0 | 9,0 | -"- | | 5 | 17,7 | -"- | | Grün |
| | 470 | 21,4 | 7,2 | -"- | | 2 | 8,0 | -"- | | Weiß |
| | 480 | 20,2 | 9,2 | -"- | | | | | | Blau |
| | 490 | 21,9 | 14,9 | -"- | | | | | | Rot |
| | 500 | 20,3 | 7,7 | -"- | | | | | | Grün |
| | 510 | 21,0 | 8,6 | -"- | | | | | | Weiß |

$$SiO_2 (\%) = \frac{SkI(Probe) * Faktor * 21.39}{mg Einwaage} * \frac{mV (Probe)}{mV (Standard)}$$

PS 1377-2SL

OPAL-Bestimmung
-Labor-Protokoll-

01.02.01

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|--------------------------|---------------|------|-----|--------------|--------------|------|-----|-------------------|-------------|
| | Probe (Station/Tier/Typ) | Einwaage (mg) | SkI | mV | SiO2 (Gew.%) | Konz. (mg/l) | SkI | mV | Faktor (Konz/SkI) | |
| | 520 | 21,9 | 19,6 | 50 | | 2mg | 7,1 | 50 | | Blau |
| | 530 | 21,6 | 12,5 | -u- | | 5 | 21,3 | -u- | | Rot |
| | 540 | 21,3 | 11,6 | -u- | | 2 | 7,0 | -u- | | Grün |
| | 550 | 21,7 | 8,3 | -u- | | 5 | 20,2 | -u- | | Weiß |
| | 560 | 22,2 | 11,0 | -u- | | | | | | Blau, Blau |
| | 570 | 22,2 | 15,2 | -u- | | | | | | Rot |
| | 580 | 21,6 | 6,1 | -u- | | | | | | Grün |
| | 590 | 20,6 | 12,5 | -u- | | | | | | Weiß |
| | 600 | 20,1 | 11,1 | -u- | | | | | | Blau |
| | 610 | 20,1 | 13,9 | -u- | | | | | | Rot |
| | 620 | 21,6 | 6,0 | -u- | | | | | | Grün |
| | 630 | 20,5 | 13,8 | -u- | | | | | | Weiß |

$$\text{SiO2 (\%)} = \frac{\text{SkI(Probe)} \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}}$$

$$\frac{\text{mV (Probe)}}{\text{mV (Standard)}}$$

P.S. 1377

OPAL-Bestimmung
-Labor-Protokoll-

02.02.2001

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|--------------------------|---------------|------|----|--------------|--------------|------|----|-------------------|-------------|
| | Probe (Station/Tier/Typ) | Einwaage (mg) | SkI | mV | SiO2 (Gew.%) | Konz. (mg/l) | SkI | mV | Faktor (Konz/SkI) | |
| | 640 | 21,5 | 11,5 | 50 | | 2 | 7,4 | 50 | | Blau |
| | 650 | 22,2 | 14,7 | " | | 5 | 20,8 | " | | Rot |
| | 660 | 23,1 | 11,2 | " | | 2 | 7,1 | " | | Grün |
| | 670 | 23,0 | 11,1 | " | | 5 | 19,9 | " | | Weiß |
| | 680 | 21,4 | 13,0 | " | | 5 | 19,0 | " | | Blau |
| | 690 | 22,1 | 11,6 | " | | 2 | 7,5 | " | | Rot |
| | 700 | 22,3 | 7,9 | " | | 5 | 18,0 | " | | Grün |
| | 710 | 24,0 | 13,8 | " | | 2 | 8,0 | " | | Weiß |
| | 720 | 22,1 | 15,0 | " | | 2 | 7,2 | " | | Blau |
| | 730 | 21,3 | 12,2 | " | | 5 | 21,0 | " | | Rot |
| | 740 | 22,8 | 11,4 | " | | 2 | 7,2 | " | | Grün |
| | 750 | 22,2 | 9,0 | " | | 5 | 20,0 | " | | Weiß |

$$\text{SiO}_2 (\%) = \frac{\text{SkI(Probe)} \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}} \cdot \frac{\text{mV (Probe)}}{\text{mV (Standard)}}$$

PS 1377

OPAL-Bestimmung

-Labor-Protokoll-

05.02.2001

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|---------------------------|---------------|------|----|--------------------------|--------------|------|----|-------------------|-------------|
| | Probe (Station/Tiefe/Typ) | Einwaage (mg) | Skl | mV | SiO ₂ (Gew.%) | Konz. (mg/l) | Skl | mV | Faktor (Konz/Skl) | |
| | 760 | 20,7 | 10,1 | 50 | | 2 | 7,3 | 50 | | Blau |
| | 770 | 22,1 | 13,0 | " | | 5 | 21,6 | " | | Rot |
| | 780 | 22,6 | 11,0 | " | | 2 | 6,4 | " | | Grün |
| | 790 | 22,4 | 10,1 | " | | 5 | 19,3 | " | | Weiß |
| | 800 | 22,9 | 10,9 | " | | 5 | 19,0 | " | | Blau |
| | 810 | 21,1 | 14,6 | " | | 2 | 10,6 | " | | Rot |
| | 820 | 22,6 | 9,2 | " | | 5 | 17,3 | " | | Grün |
| | 830 | 21,6 | 13,2 | " | | 2 | 8,1 | " | | Weiß |
| | 840 | 22,3 | 13,4 | " | | | | | | Blau |
| | 850 | 21,8 | 9,6 | " | | | | | | Rot |
| | 860 | 21,3 | 11,9 | " | | | | | | Grün |
| | 870 | 21,8 | 11,4 | " | | | | | | Weiß |

$$\text{SiO}_2 (\%) = \frac{\text{Skl(Probe)} \cdot \text{Faktor} \cdot 21,39}{\text{mg Einwaage}} \cdot \frac{\text{mV (Probe)}}{\text{mV (Standard)}}$$

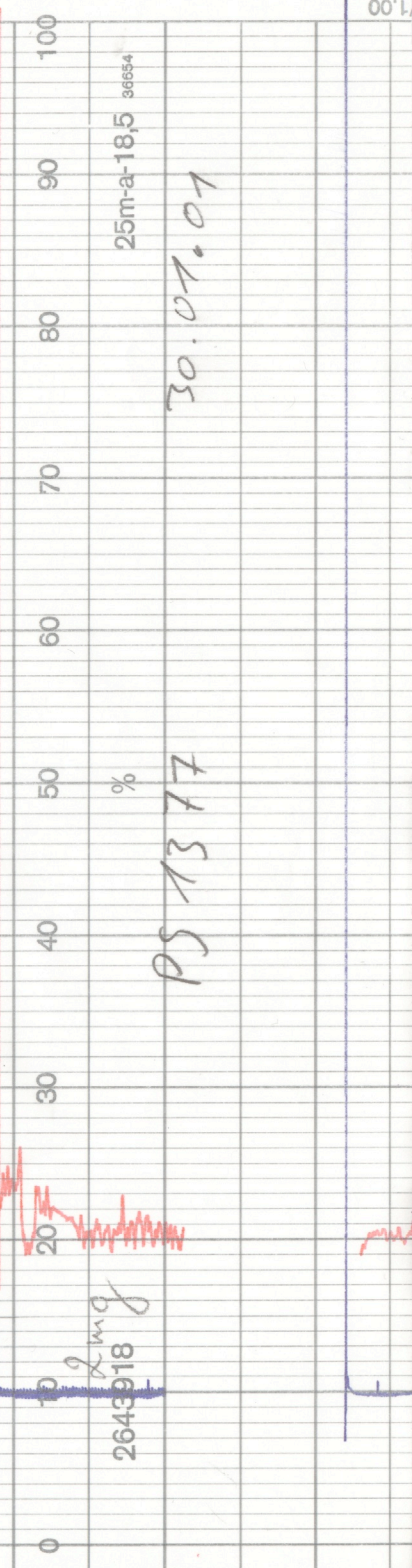
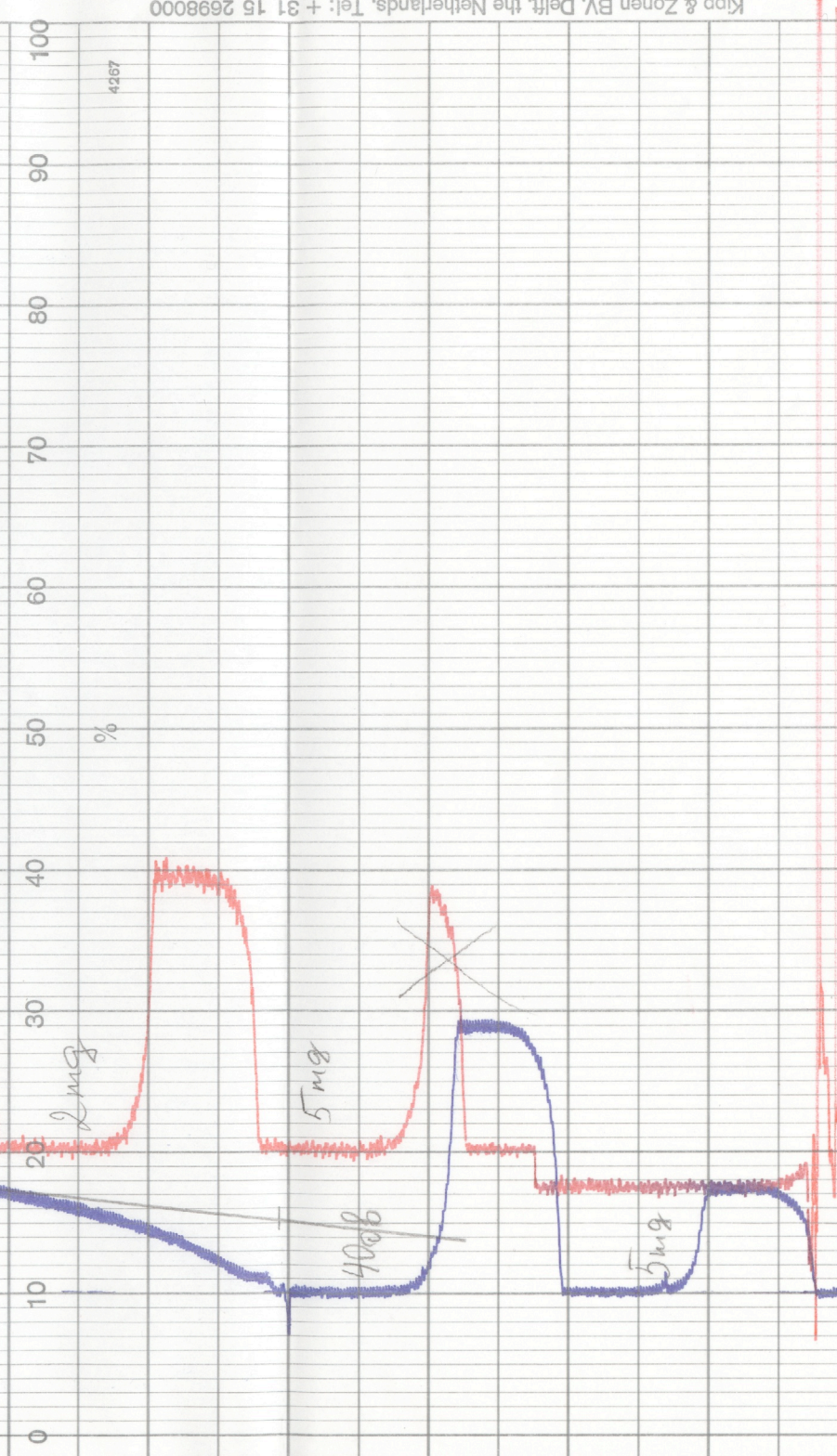
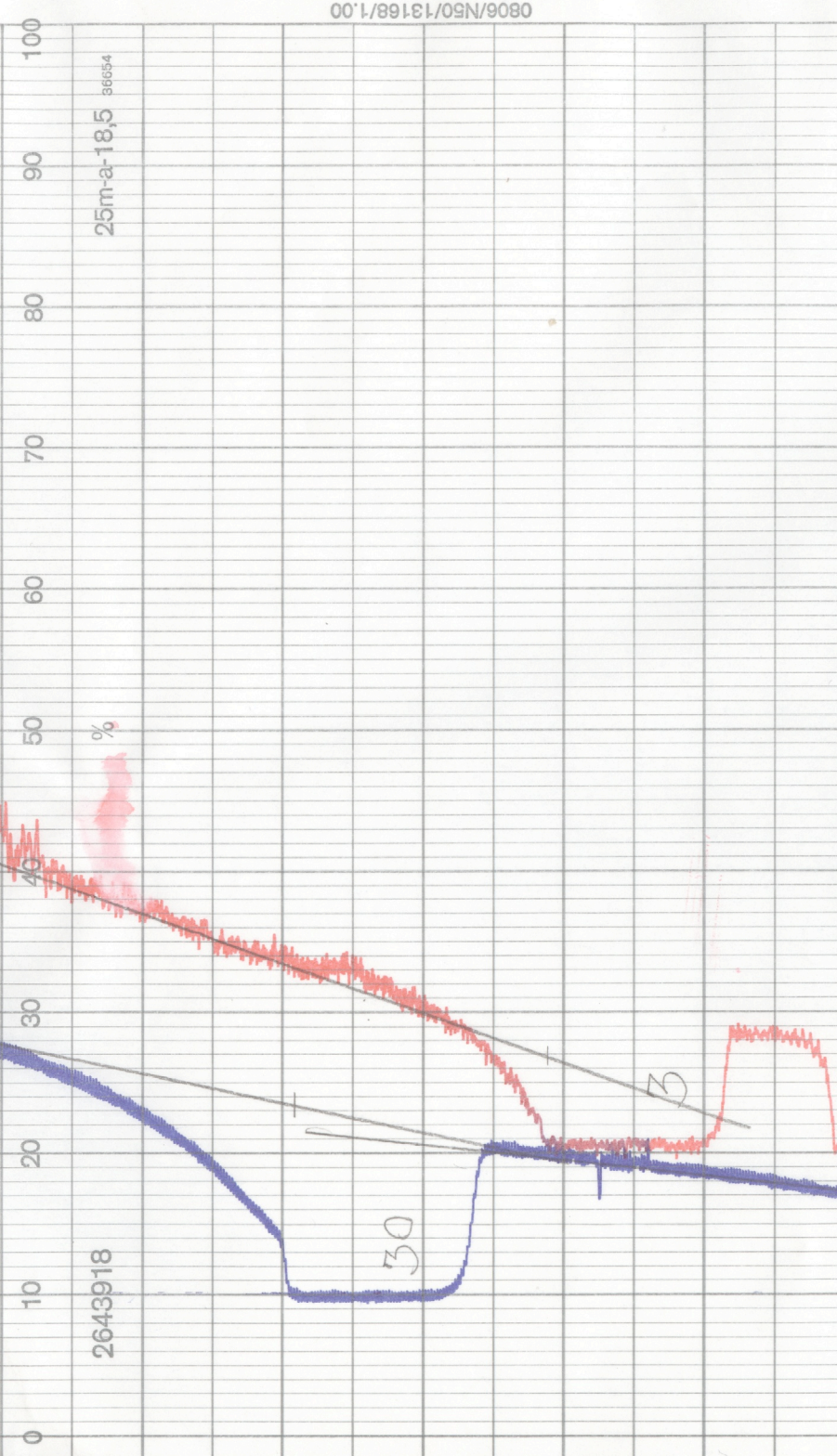
PS 1377

OPAL-Bestimmung
-Labor-Protokoll-

05.02.2001

| Datum | Probe | | | | | Standard | | | | Bemerkungen |
|-------|--------------------------|---------------|------|----|--------------|--------------|------|----|-------------------|-------------|
| | Probe (Station/Teil/Typ) | Einwaage (mg) | SkI | mV | SiO2 (Gew.%) | Konz. (mg/l) | SkI | mV | Faktor (Konz/SkI) | |
| | 880 | 22,3 | 18,4 | 50 | | 2 | 7,2 | 50 | | Blau |
| | | | | | | 5 | 20,0 | 50 | | Rot |
| | 890 | 21,8 | 24,9 | " | | 5 | 18,0 | " | | Grün |
| | 900 | 21,6 | 32,4 | " | | 5 | 19,9 | " | | Weiß |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |

$$SiO_2 (\%) = \frac{SkI(Probe) \cdot Faktor \cdot 21,39}{mg\ Einwaage} \cdot \frac{mV(Probe)}{mV(Standard)}$$



0 10 20 30 40 50 60 70 80 90 100
%

4267

Kipp & Zonen BV, Delft, the Netherlands, Tel: + 31 15 2698000

150

170

0 10 20 30 40 50 60 70 80 90 100
%

2643918

25m-a-18,5

36654

0806/N50/13168/1.00

110

180

0 10 20 30 40 50 60 70 80 90 100
%

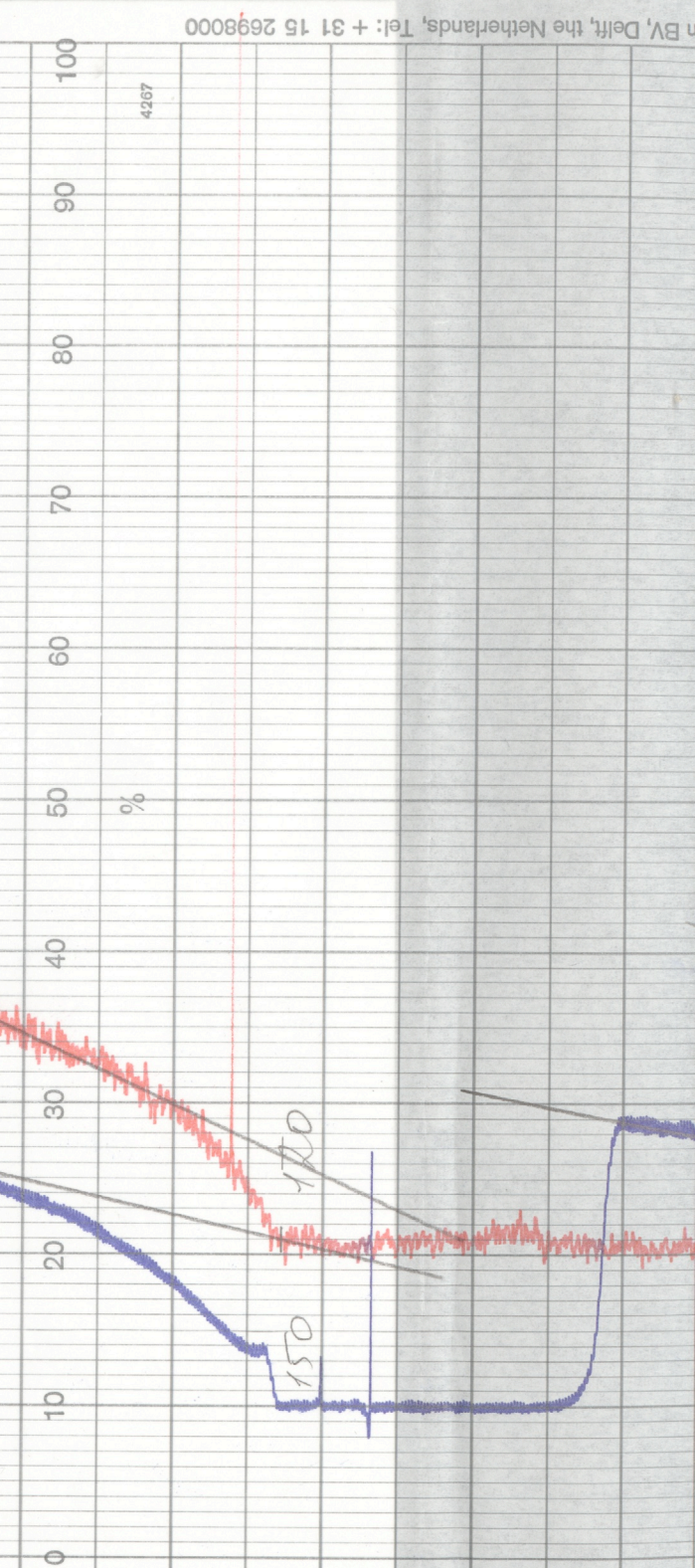
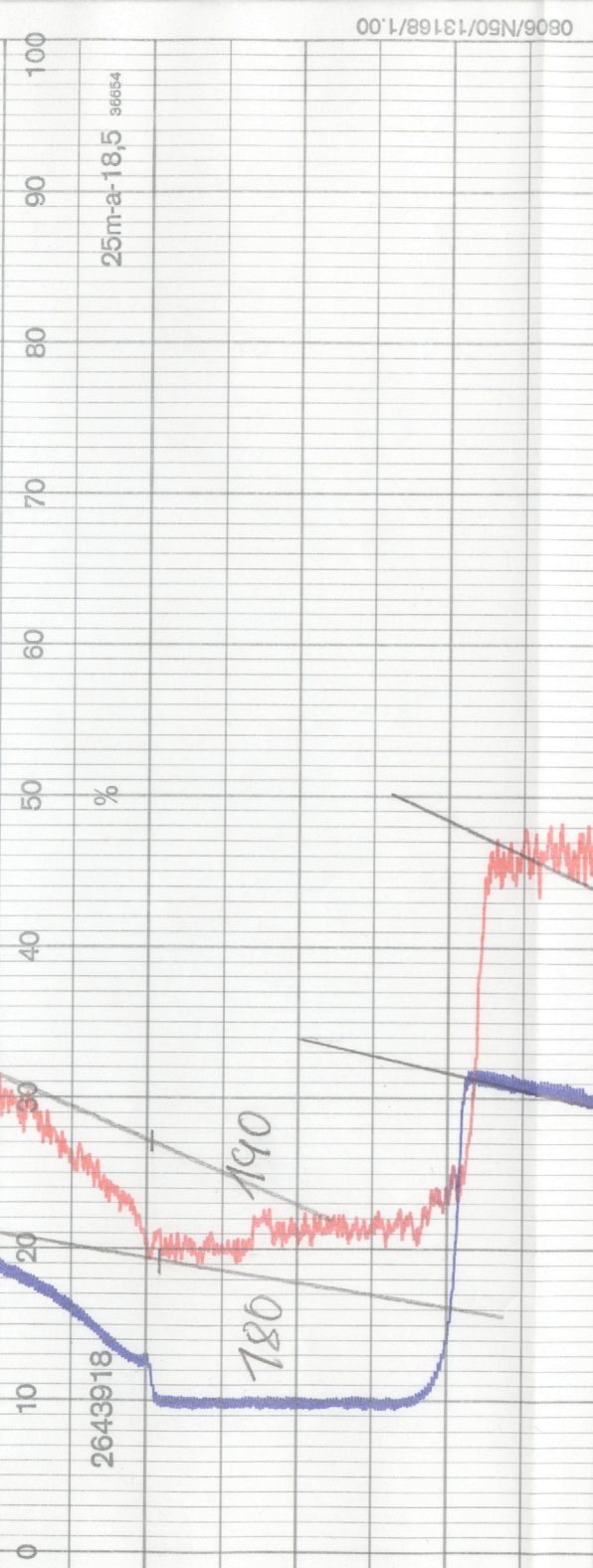
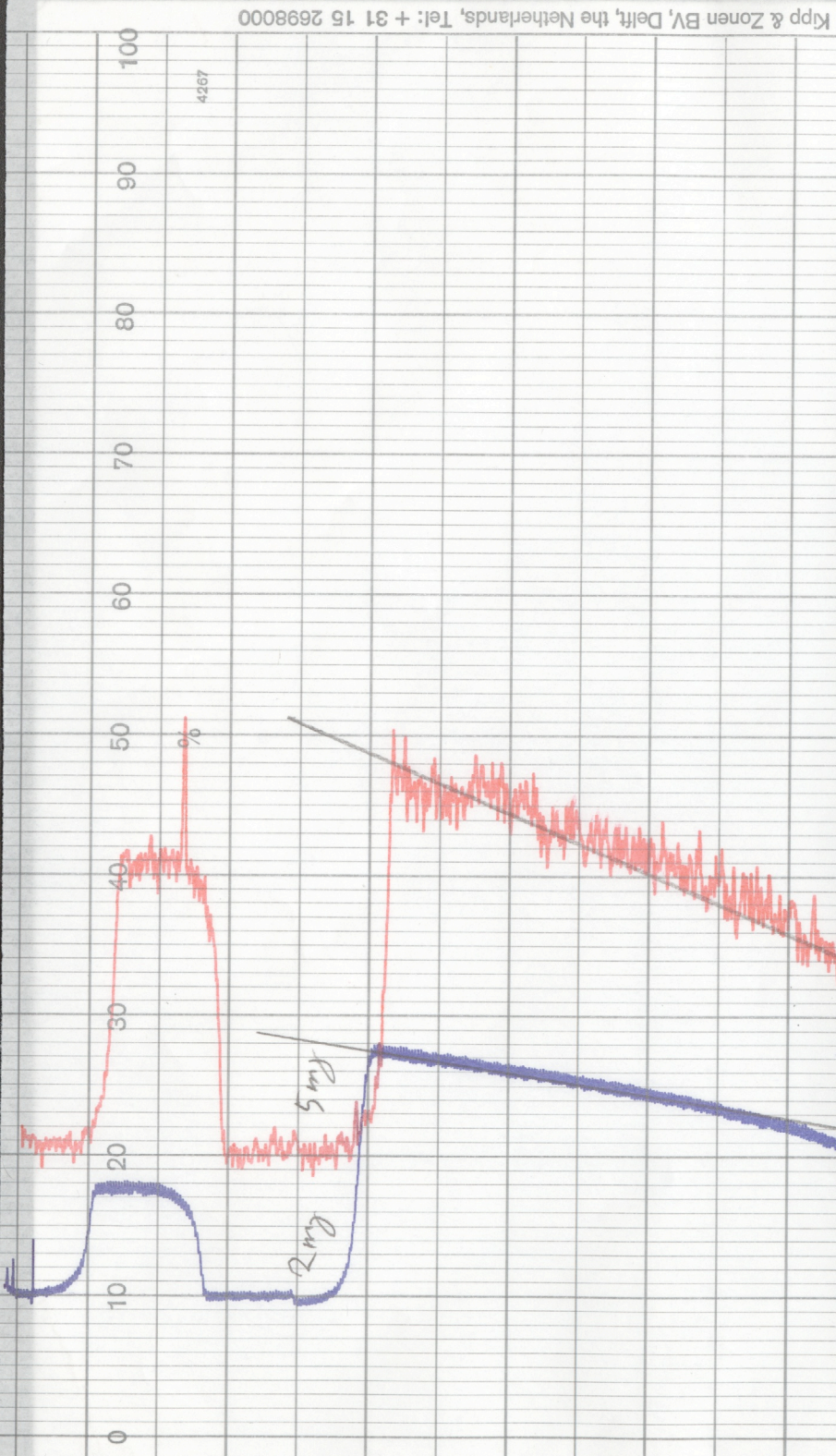
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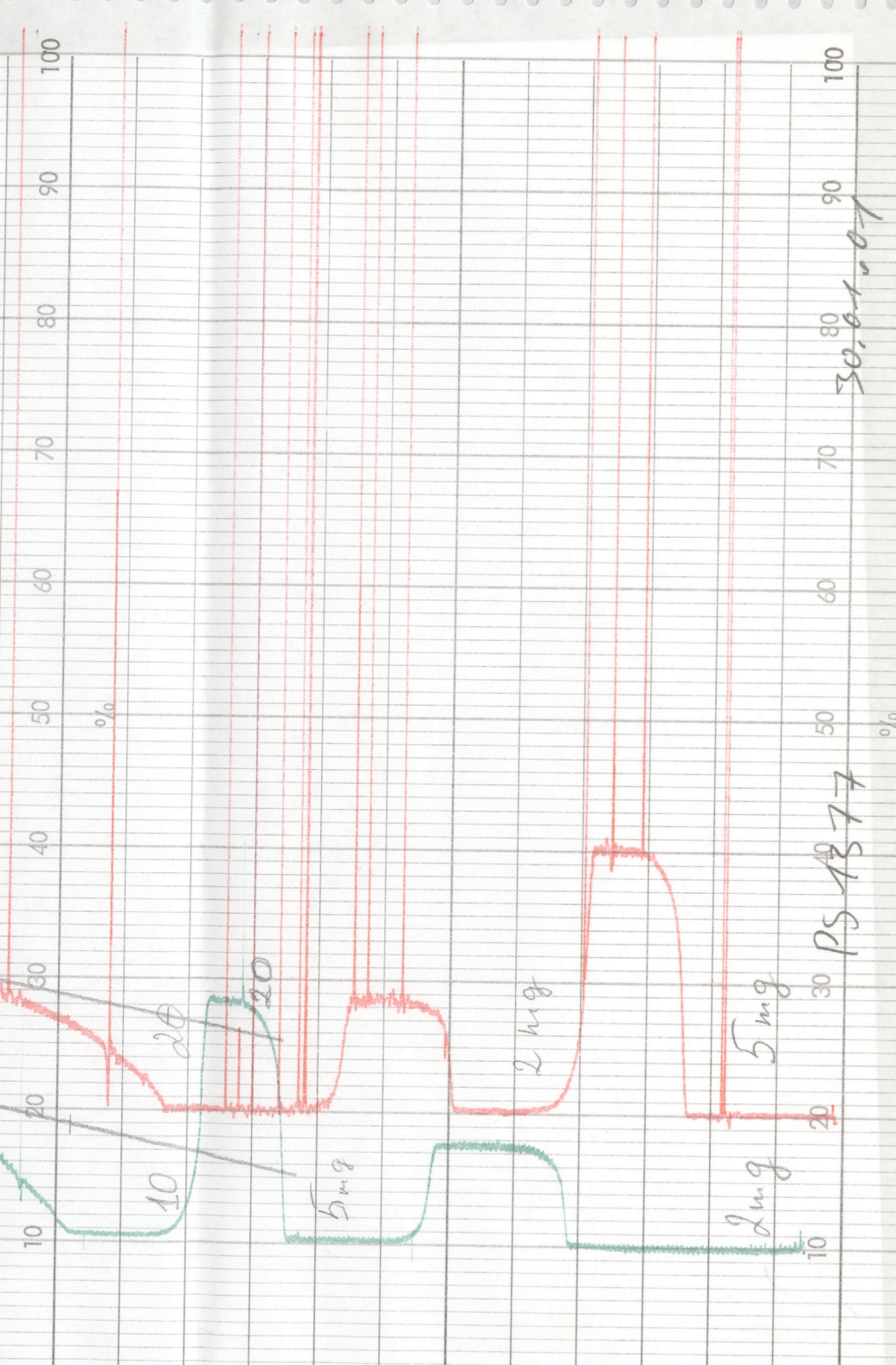
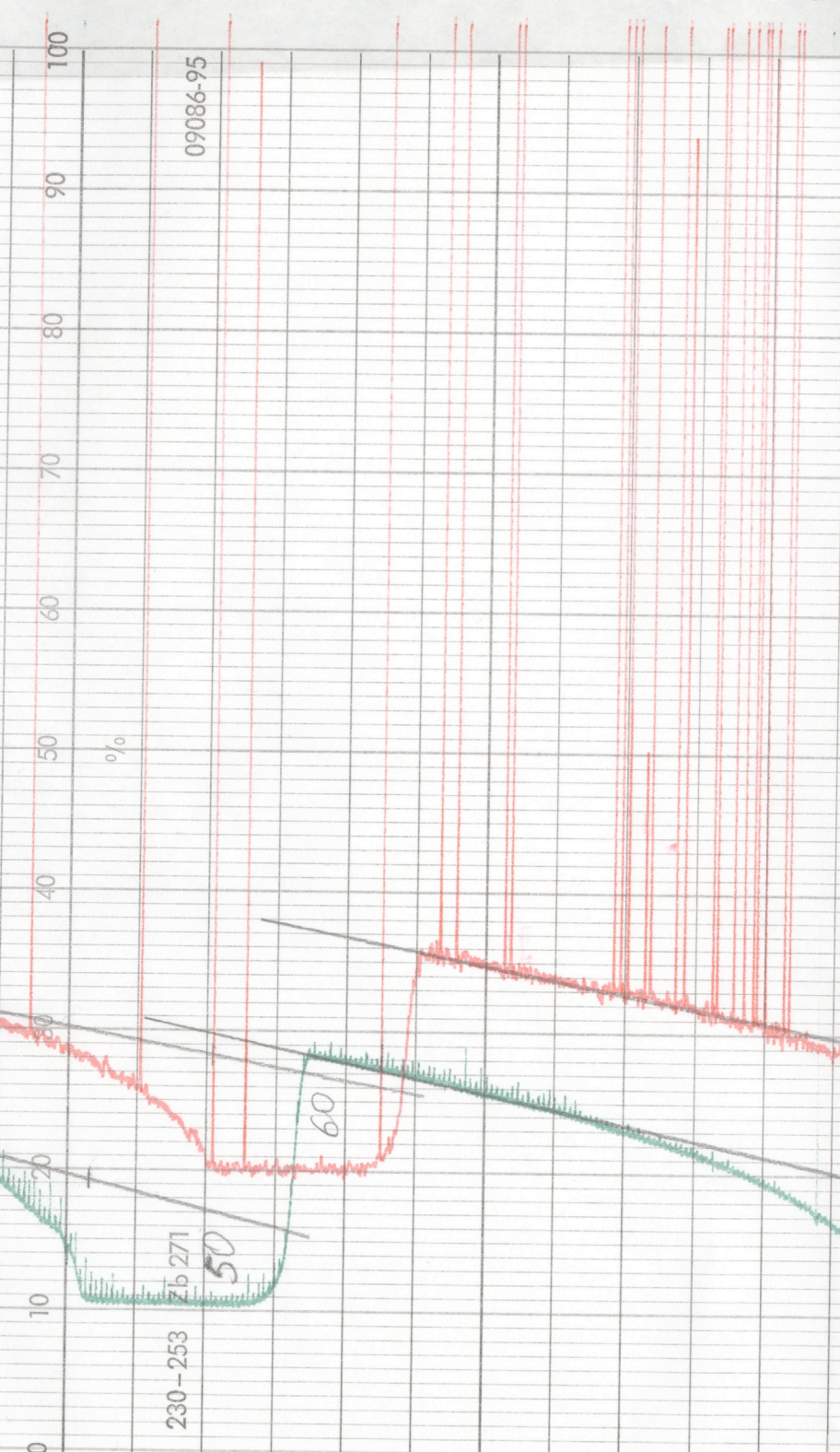
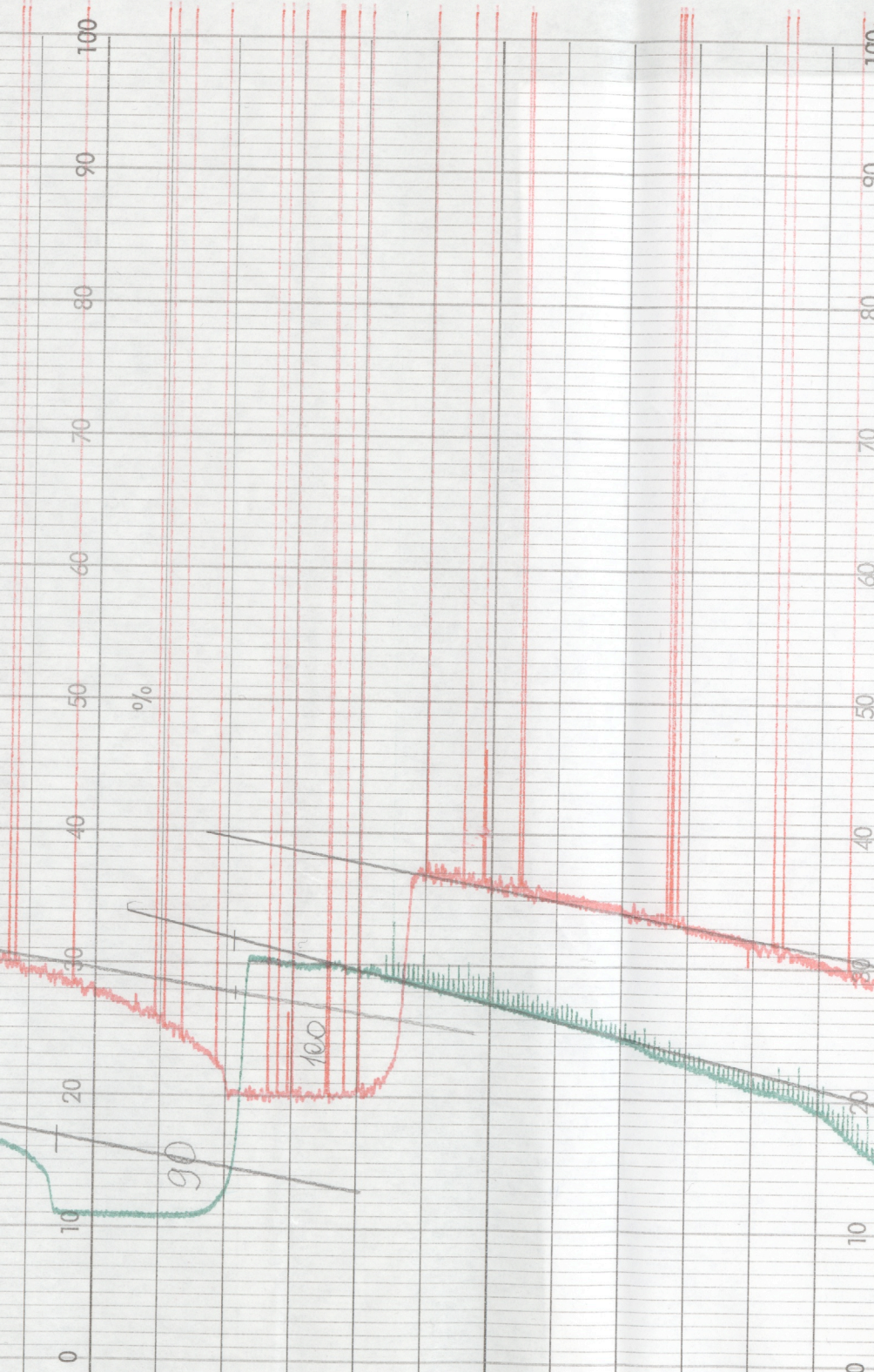
& Zonen BV, Delft, the Netherlands, Tel: + 31 15 2698000

10

40

40



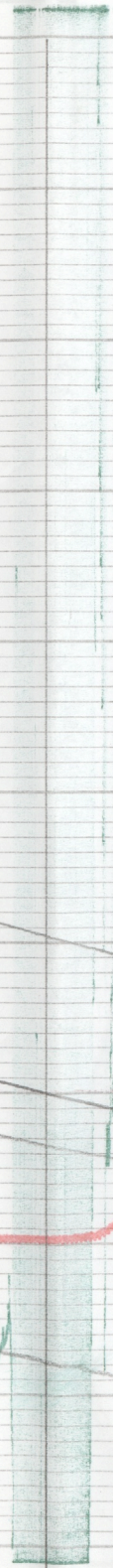


0 10 20 30 40 50 60 70 80 90 100

%

160
180

170



0 10 20 30 40 50 60 70 80 90 100

%

230-253
130
Zb 271

140

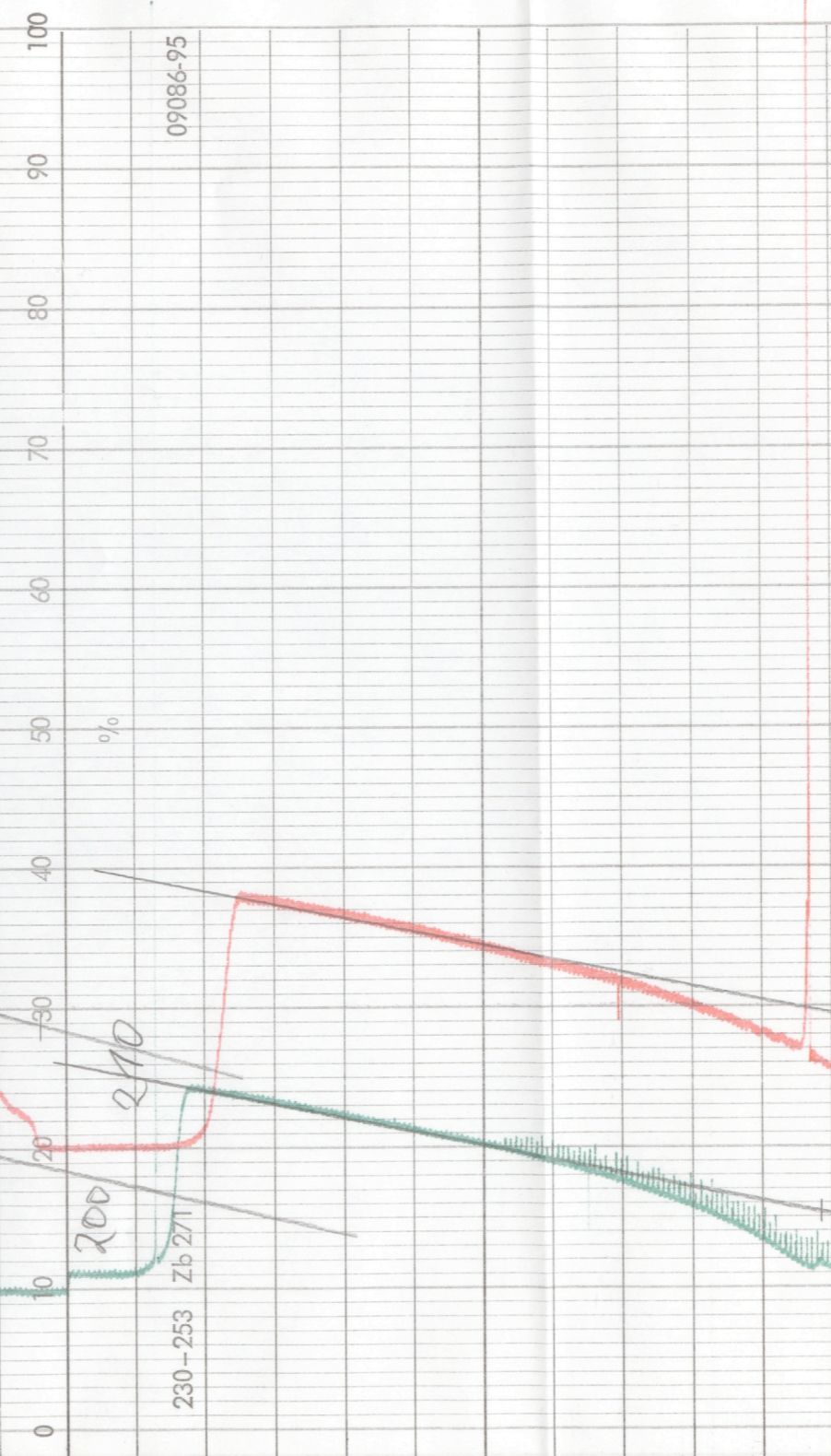
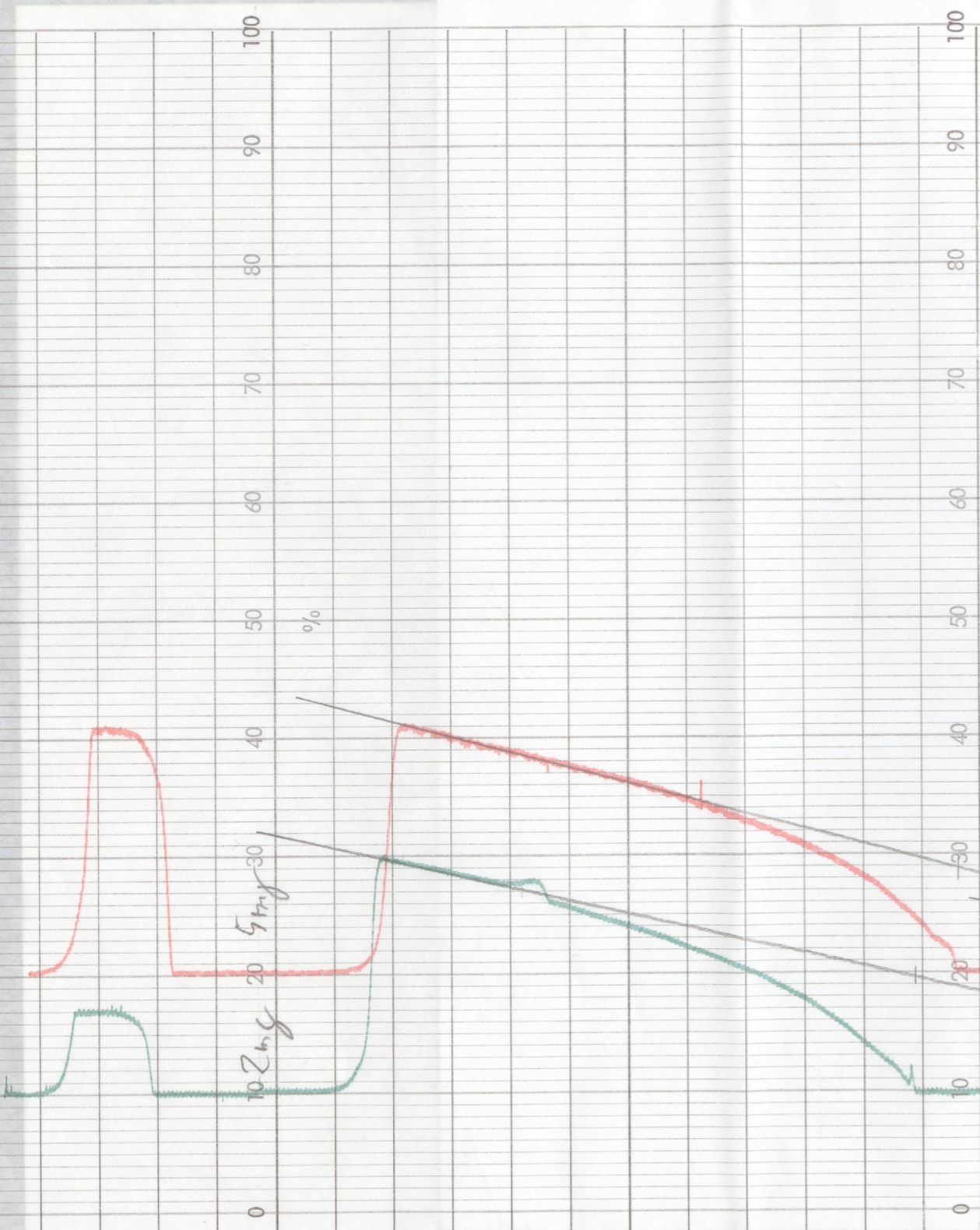
09086-95

0 10 20 30 40 50 60 70 80 90 100

%

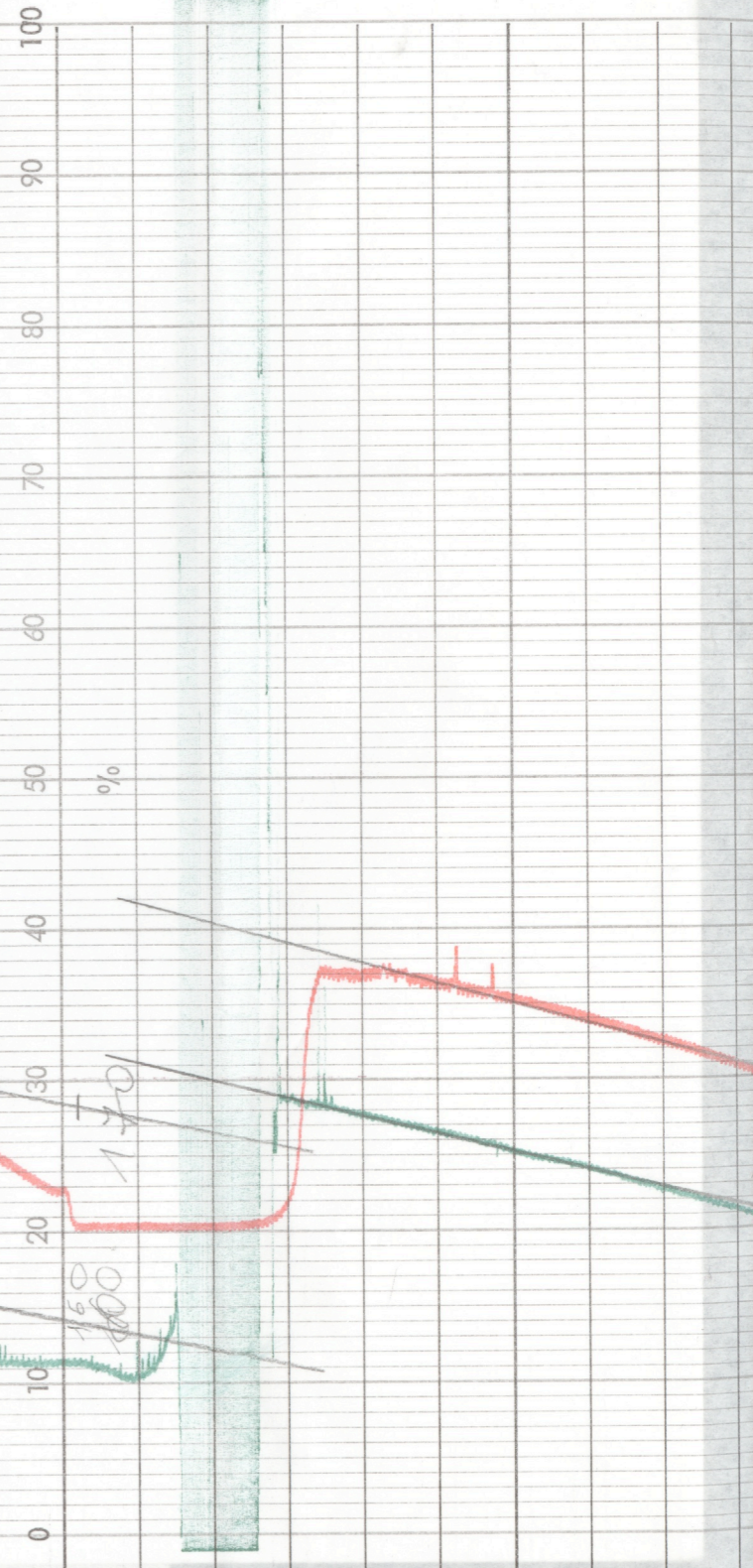
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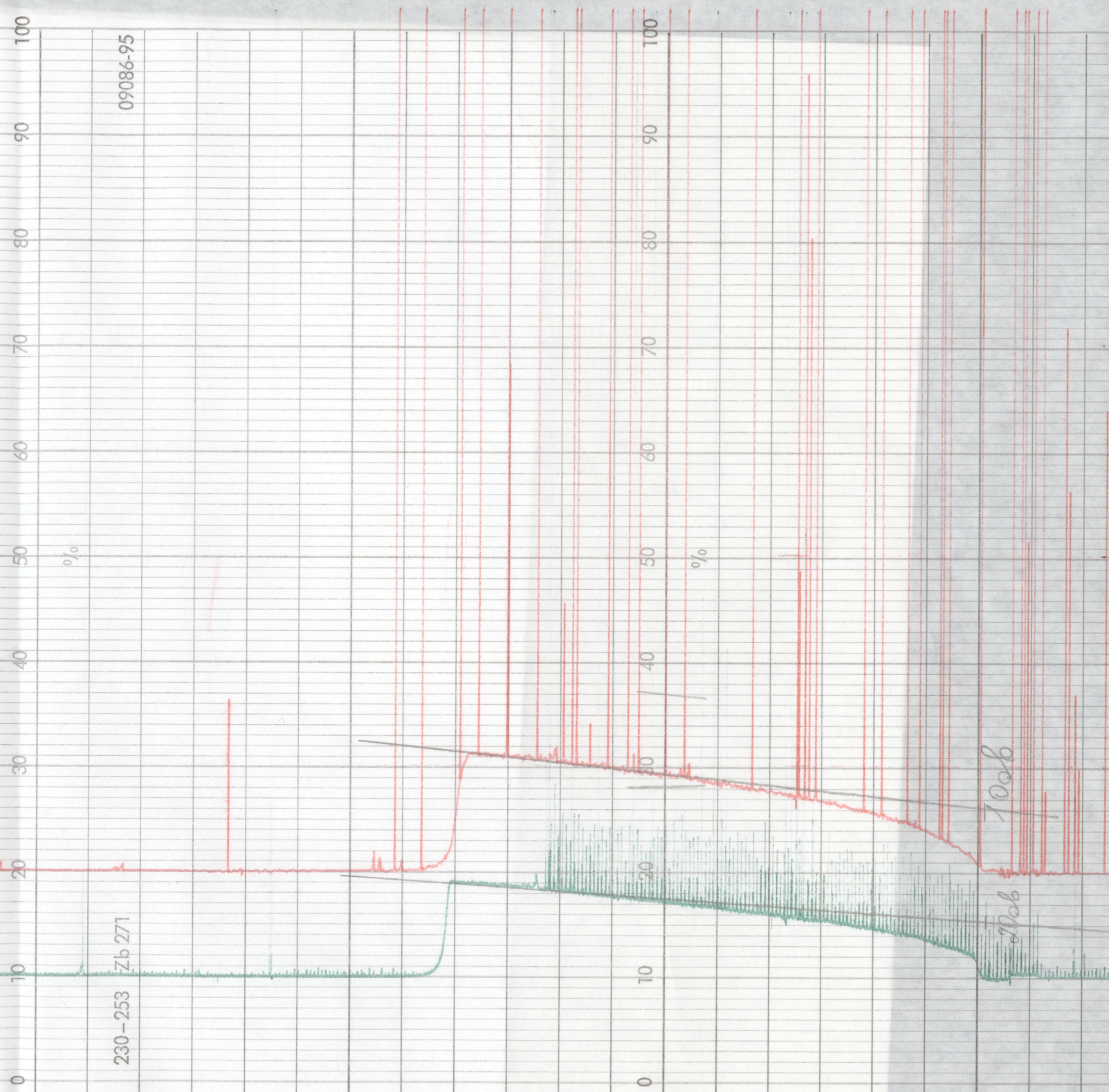
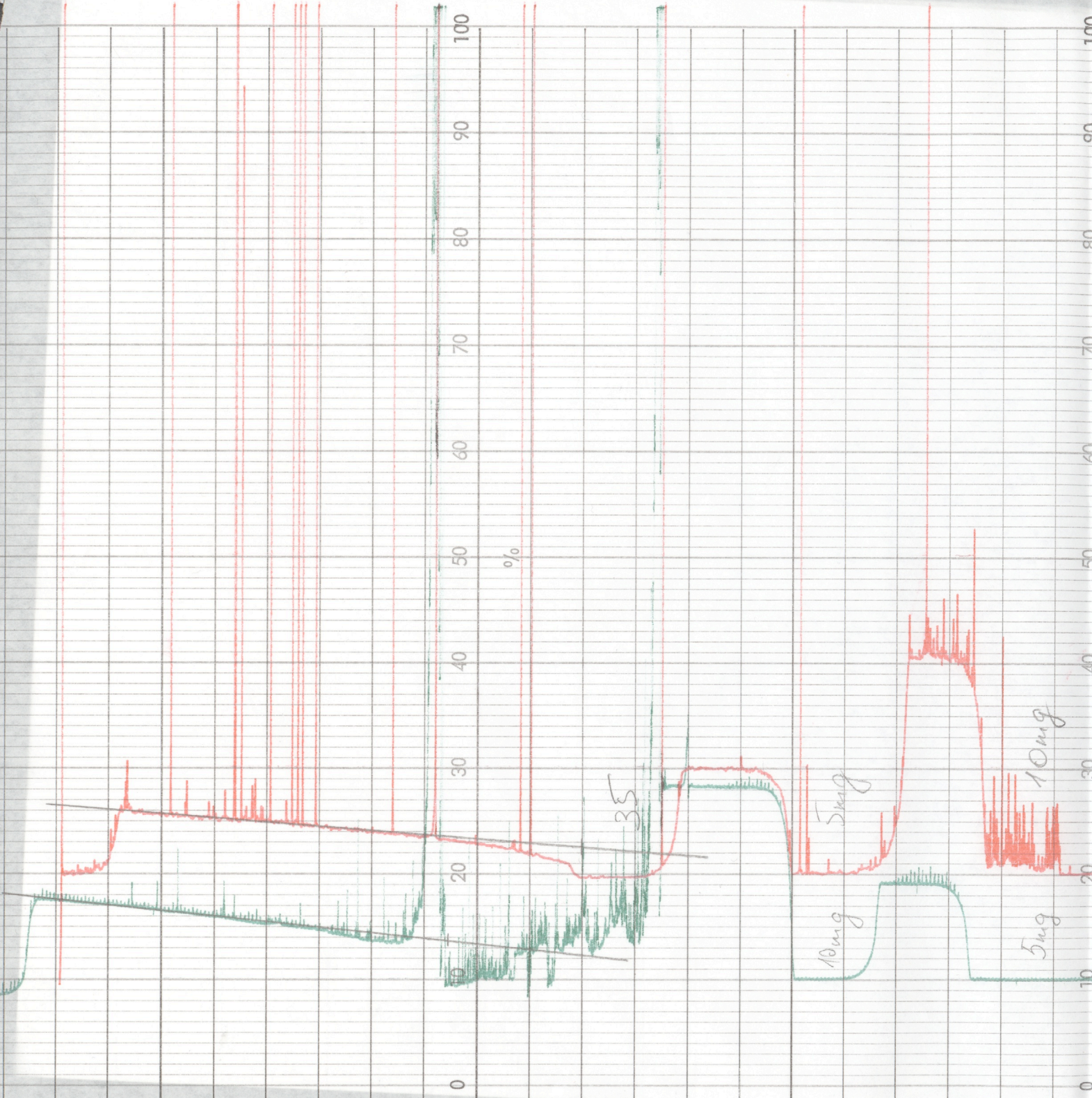
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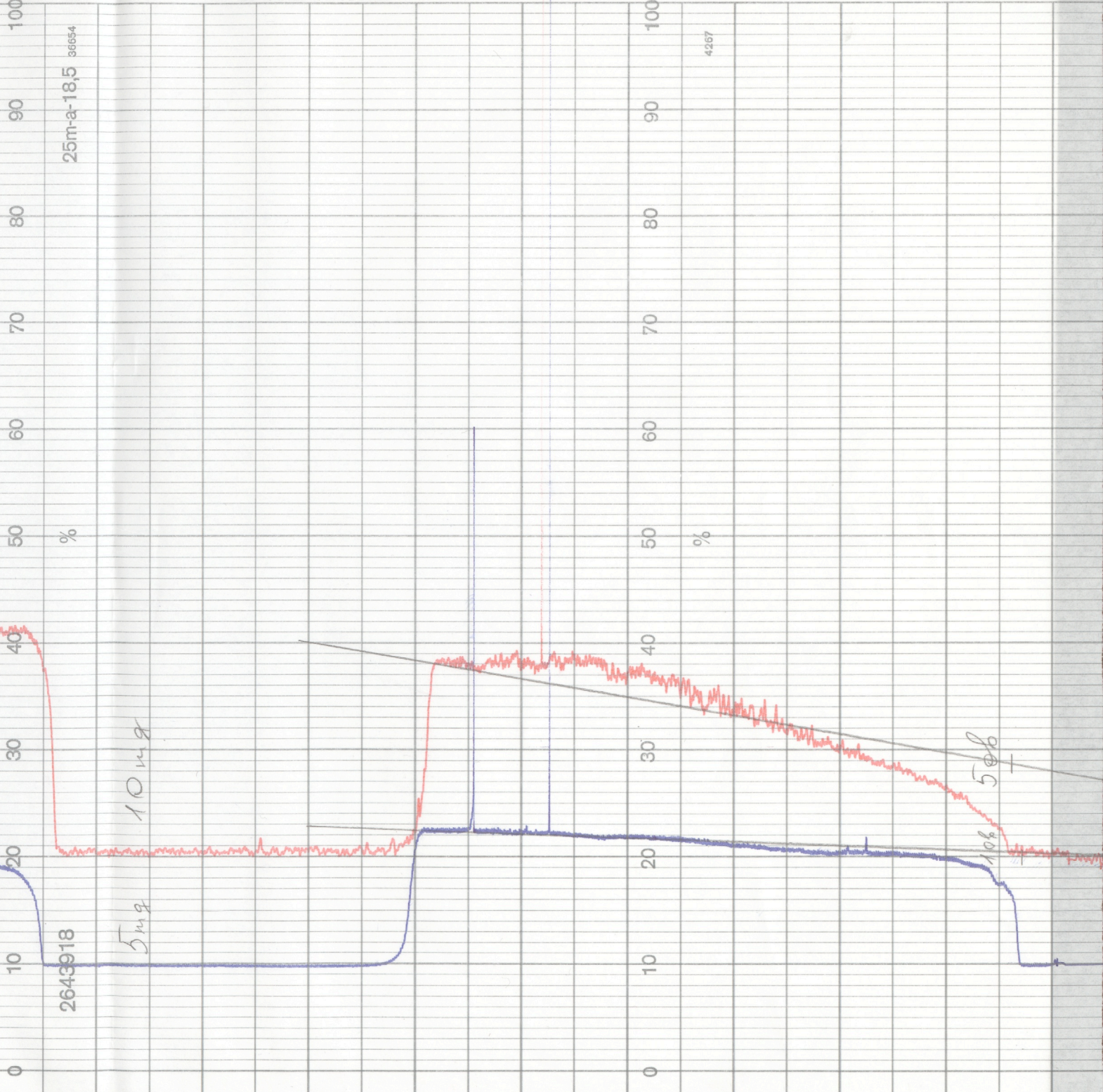
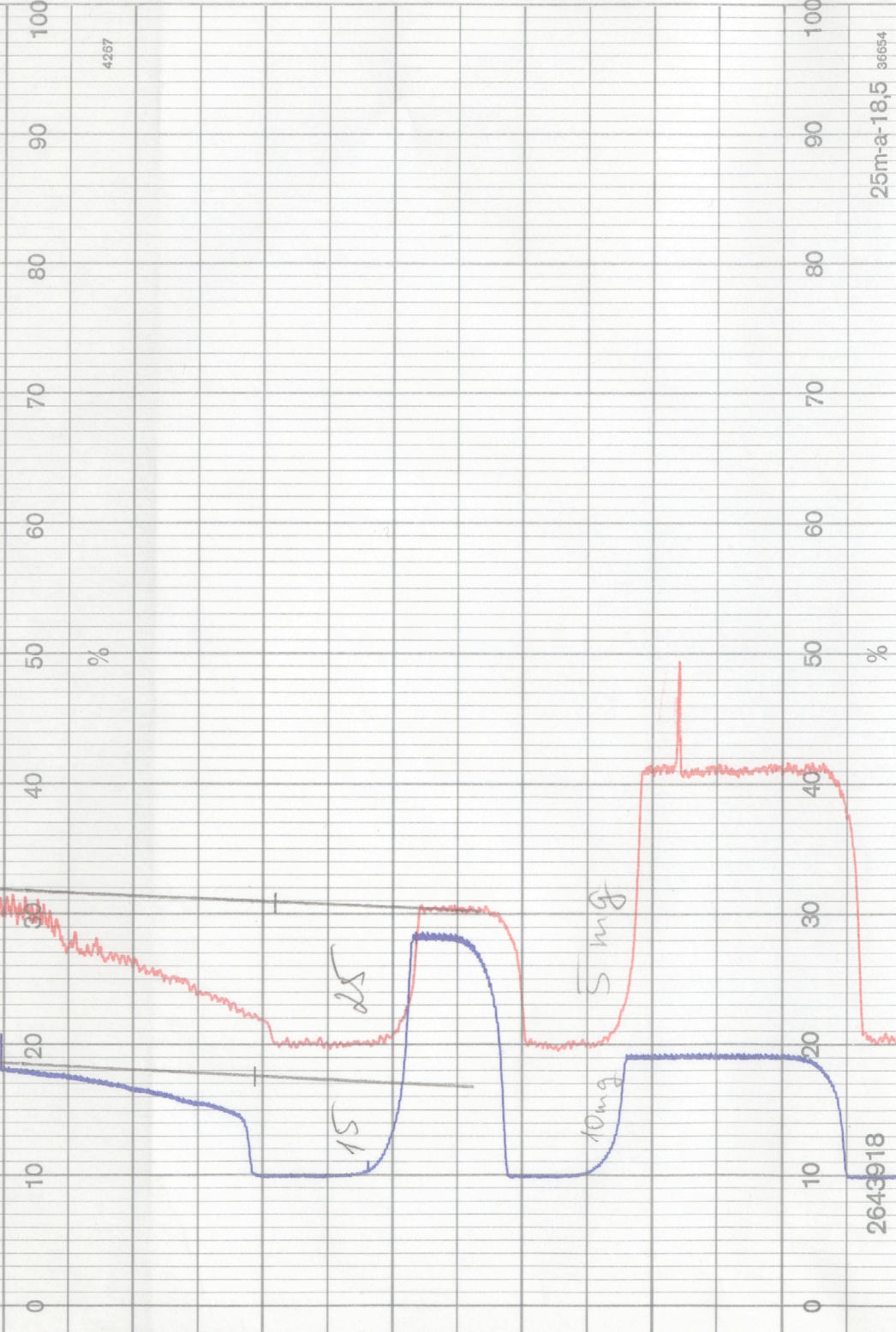


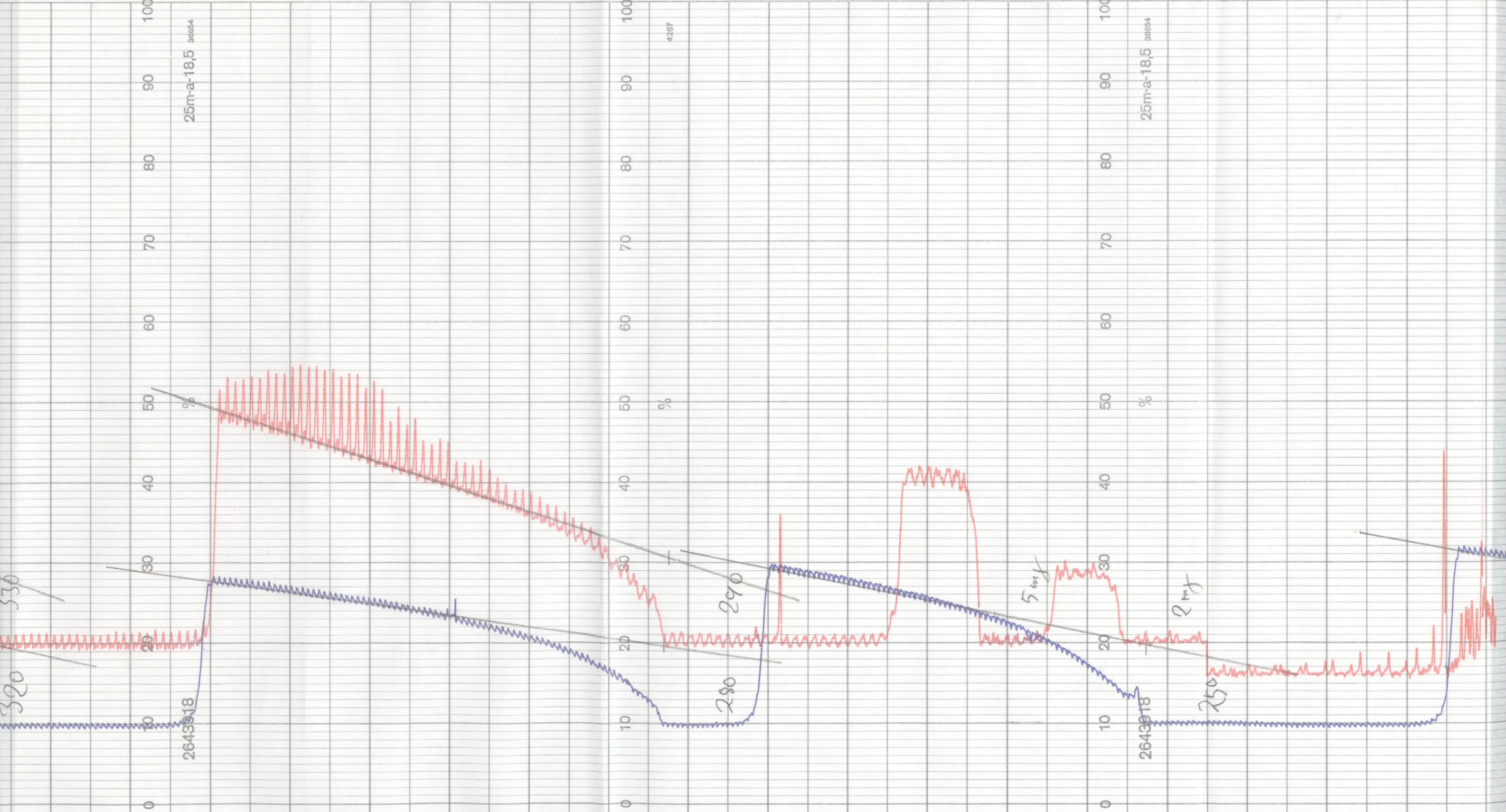
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230-253 Zb 271









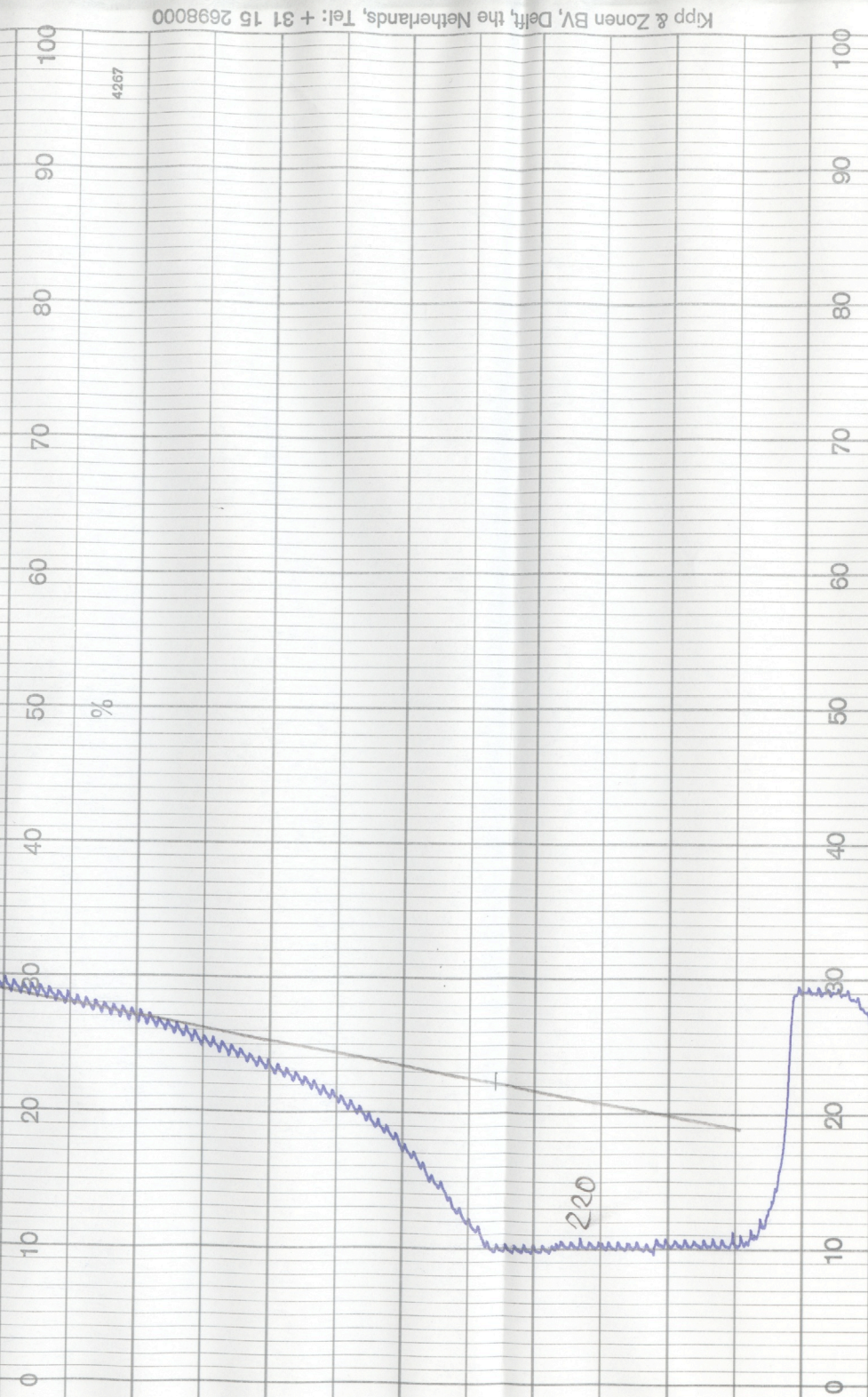
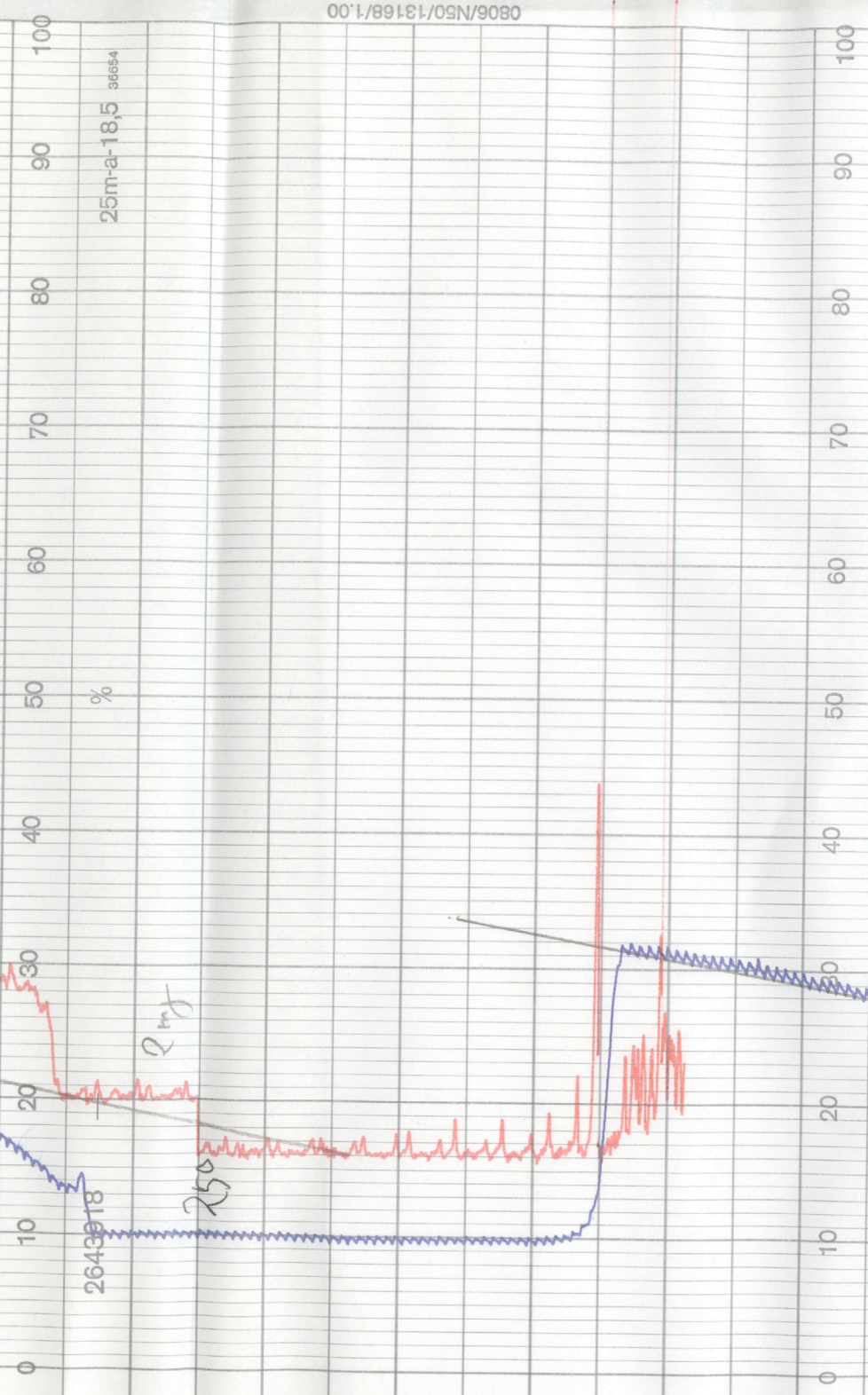
25m-a-18,5 36654

2643918

4267

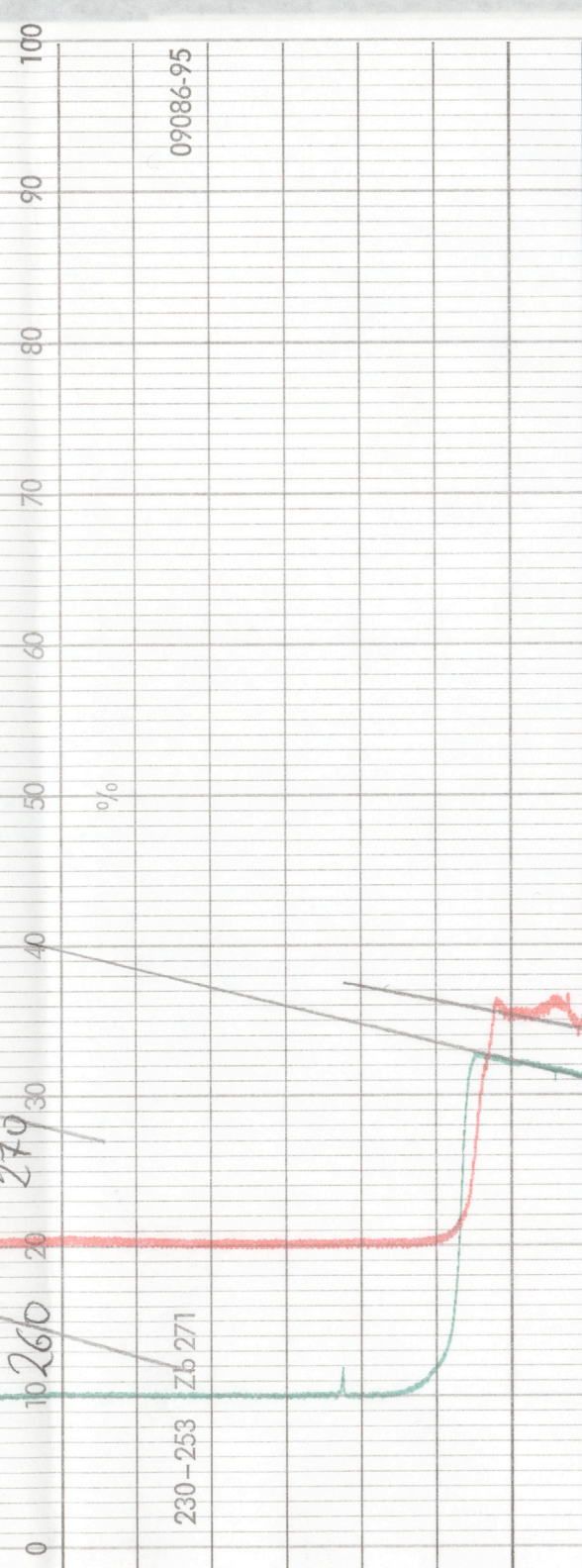
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2643918



31.01.07

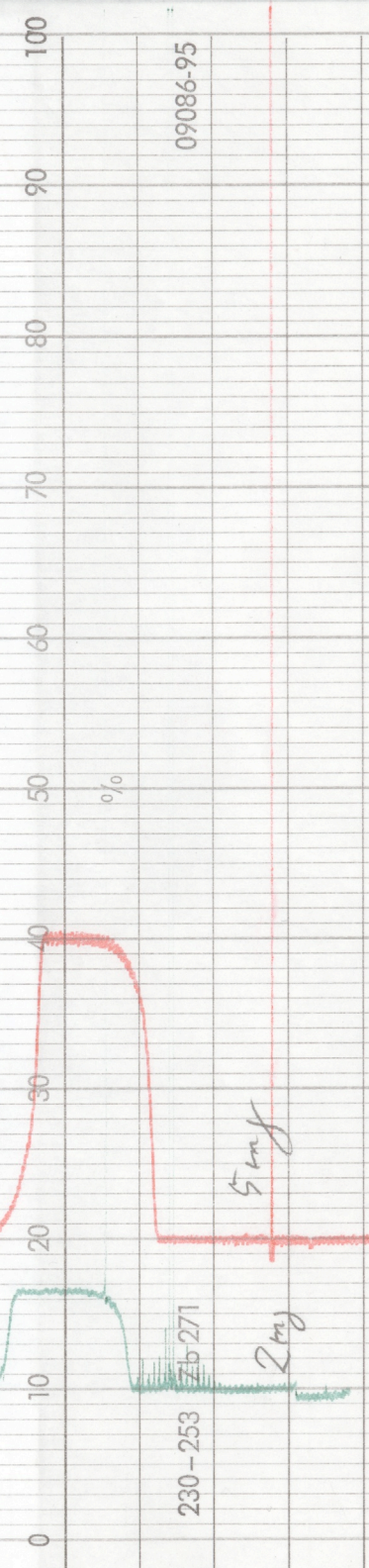
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230-253 Zb 271
270
260
%



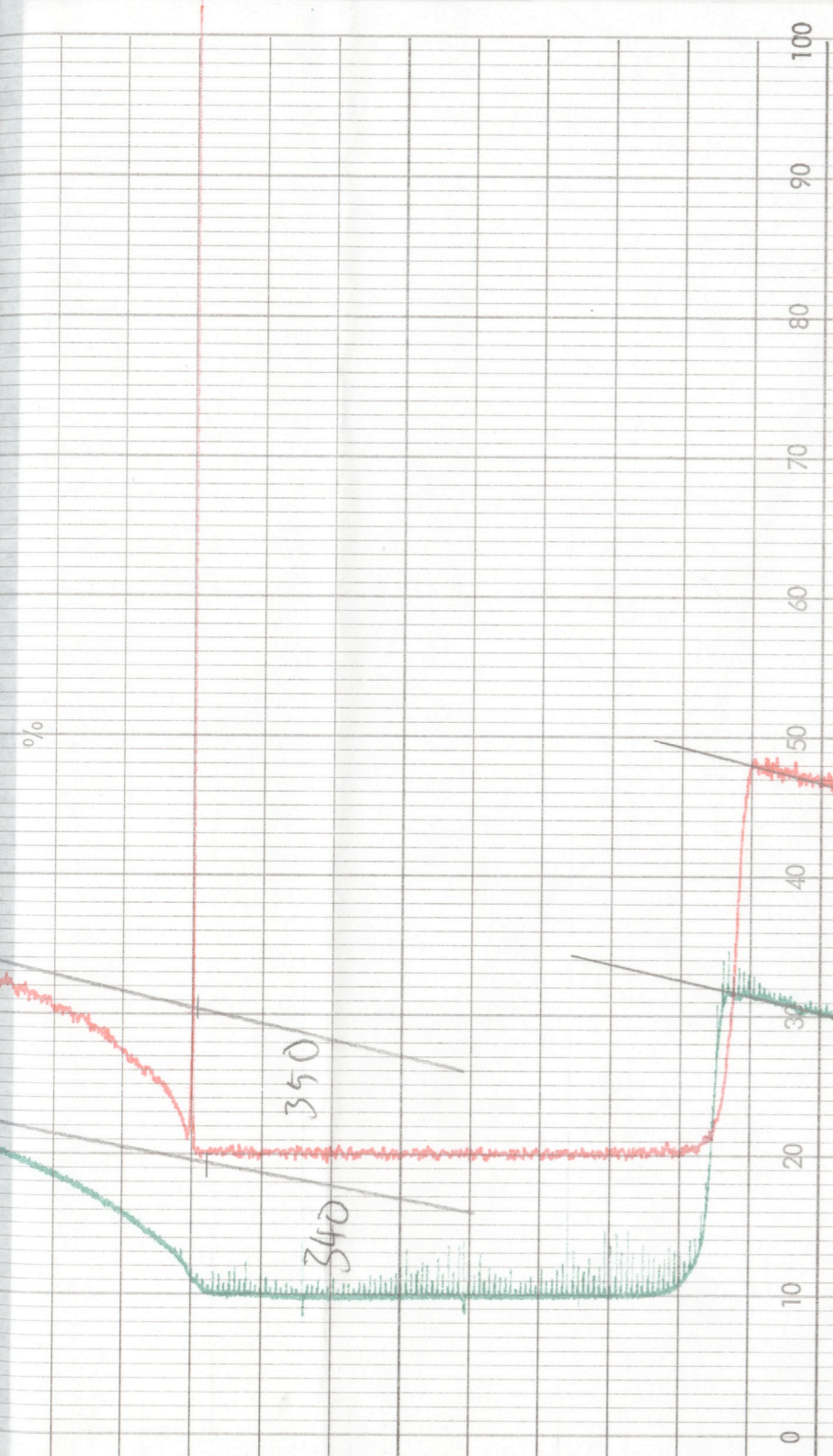
09086-95
230-253 Zb 271
240
230
%



09086-95
230-253 Zb 271
5mg
2mg
%

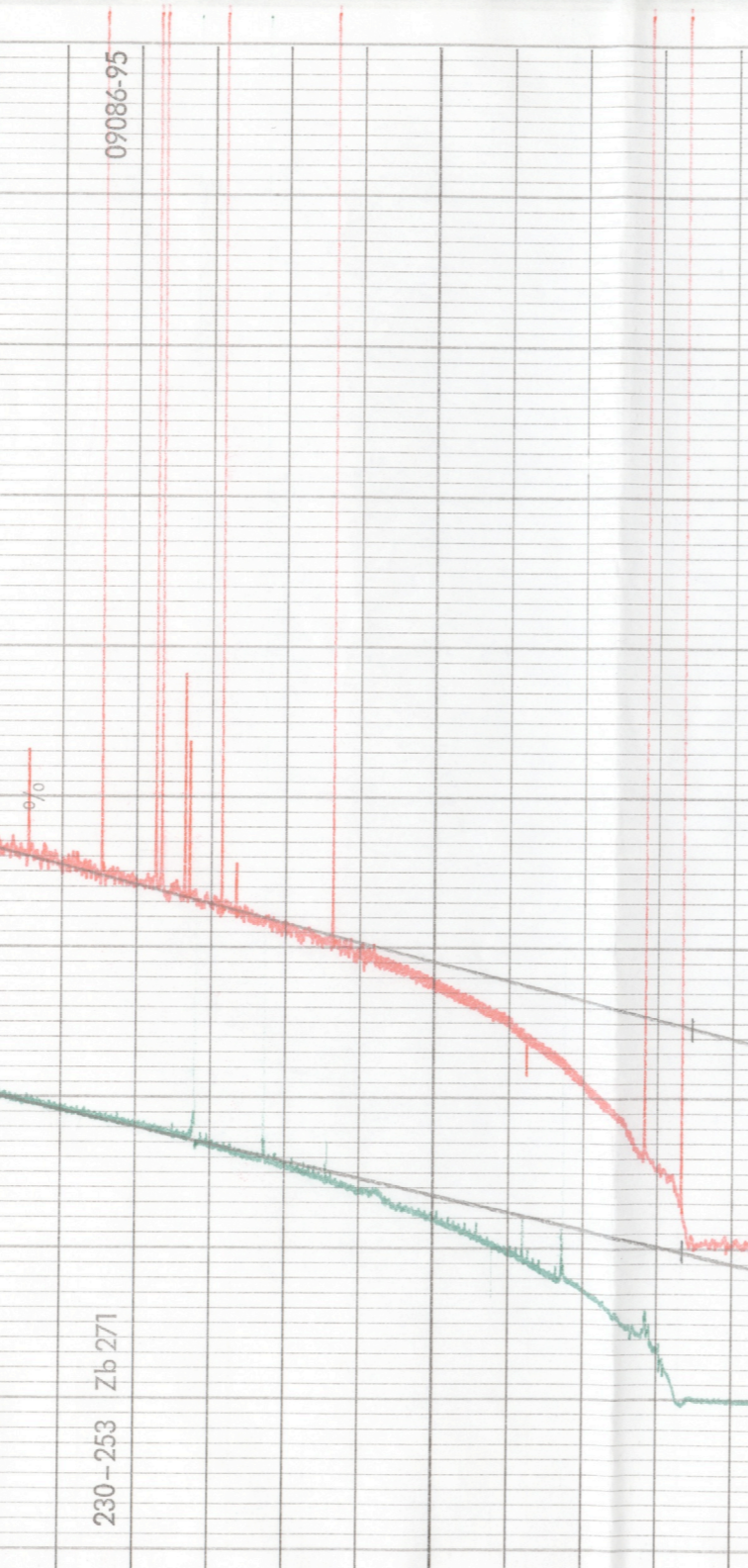


PS 1377
31.01.07



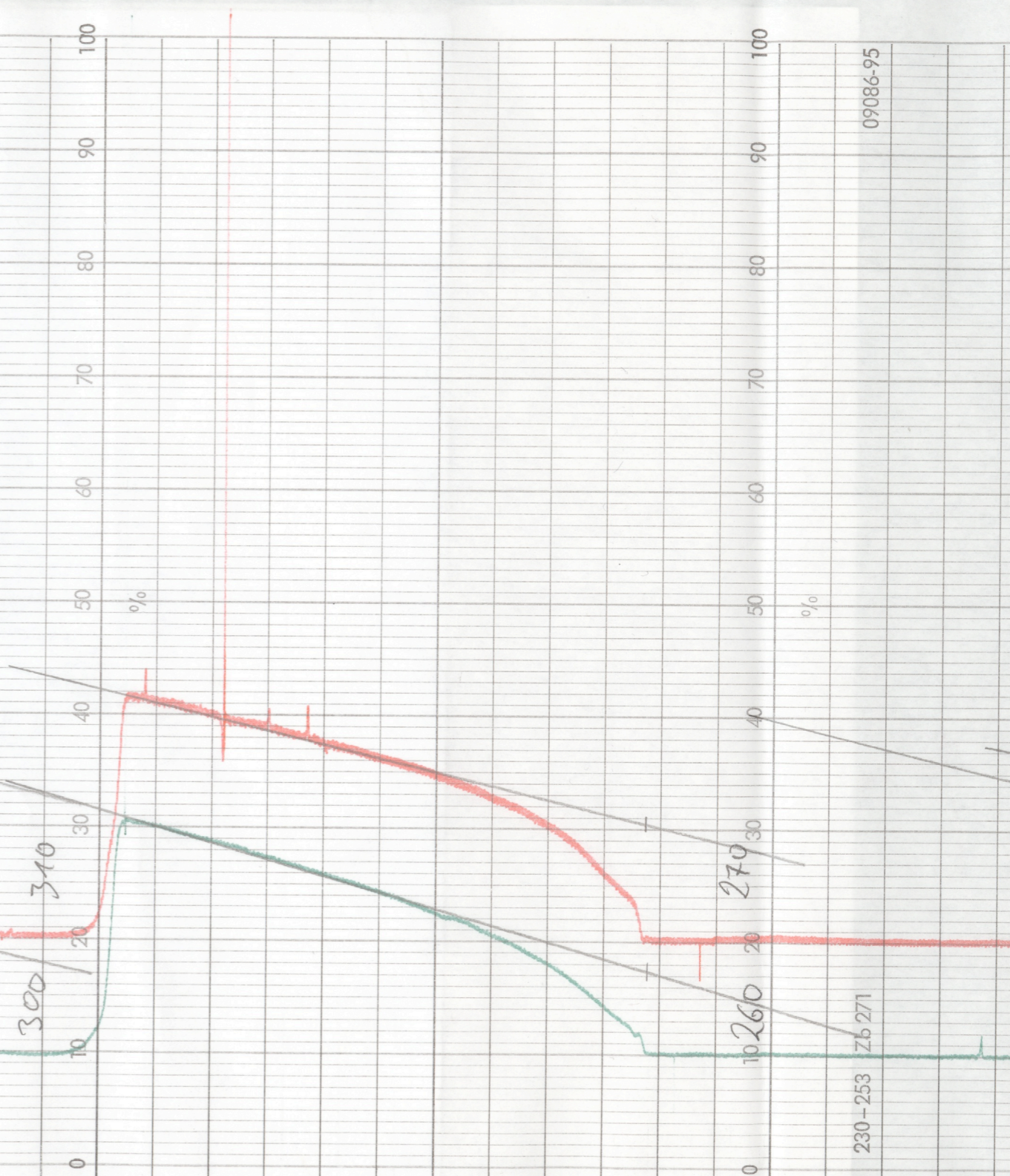
230-253 Zb 271

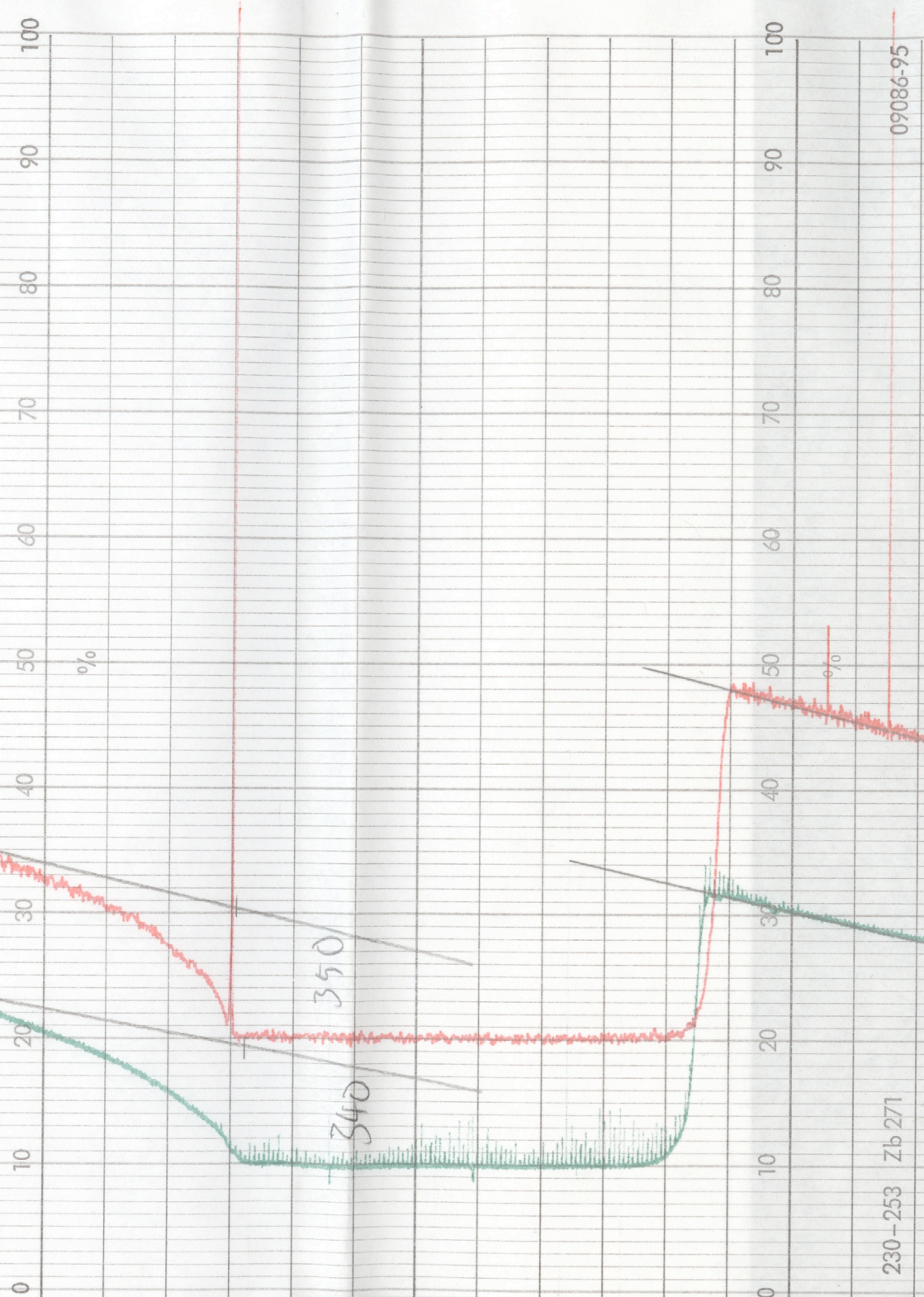
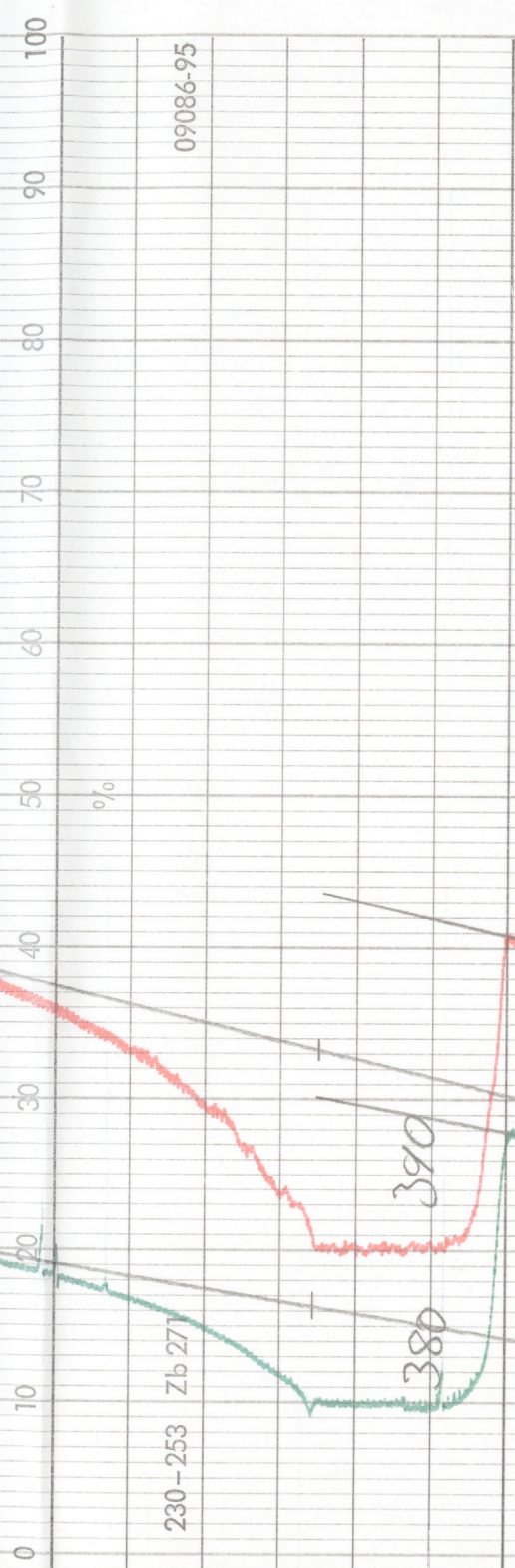
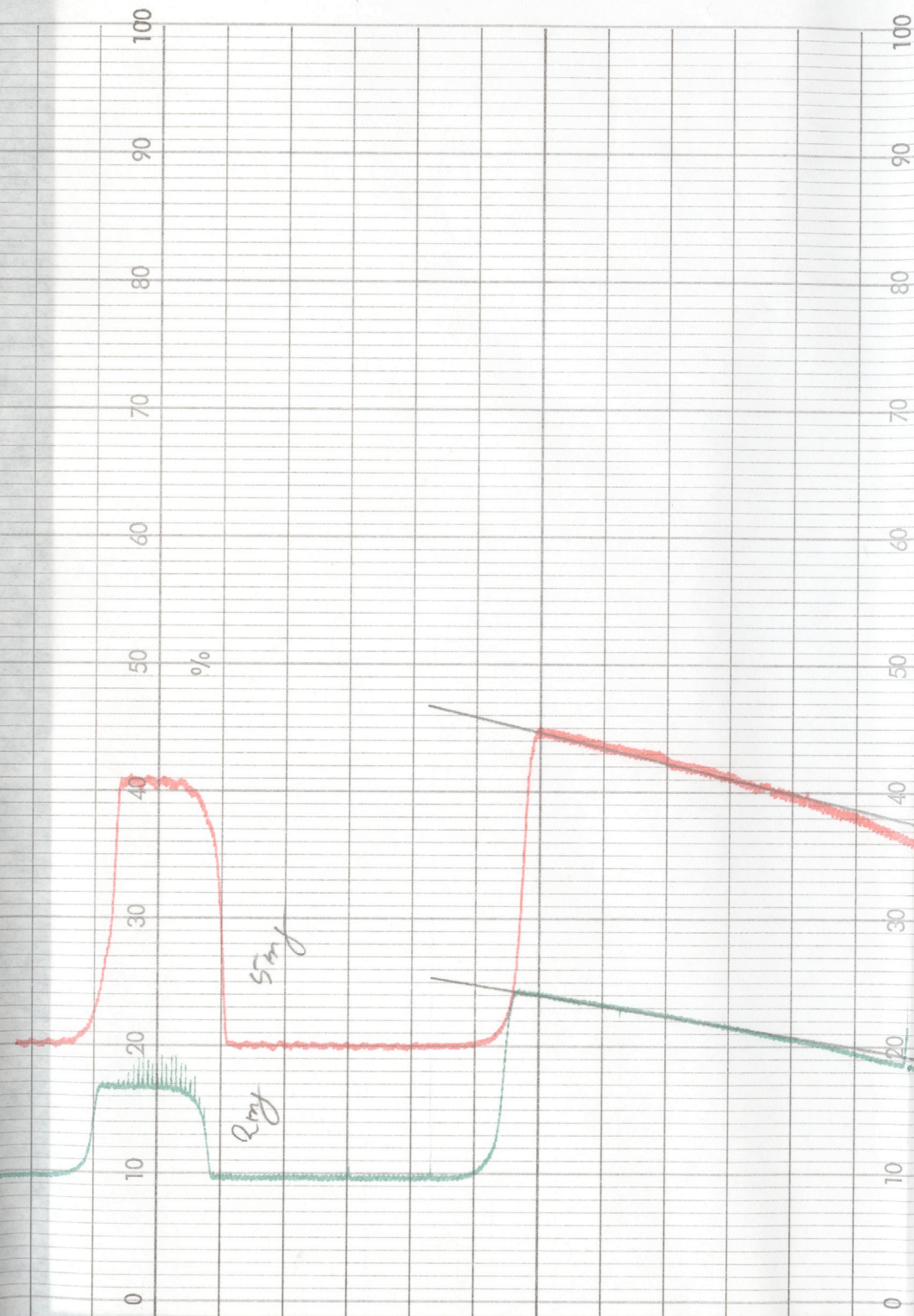
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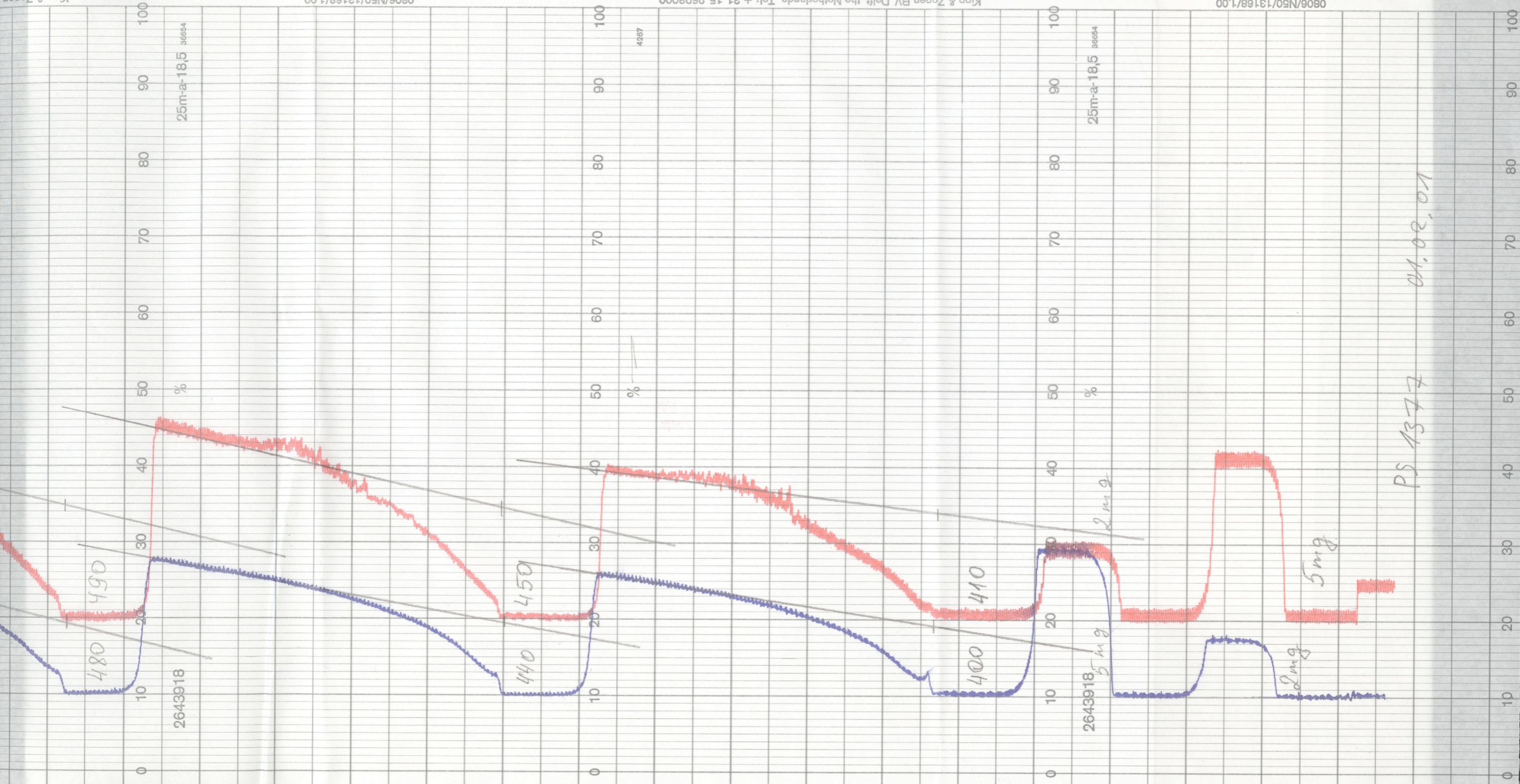


230-253 Zb 271

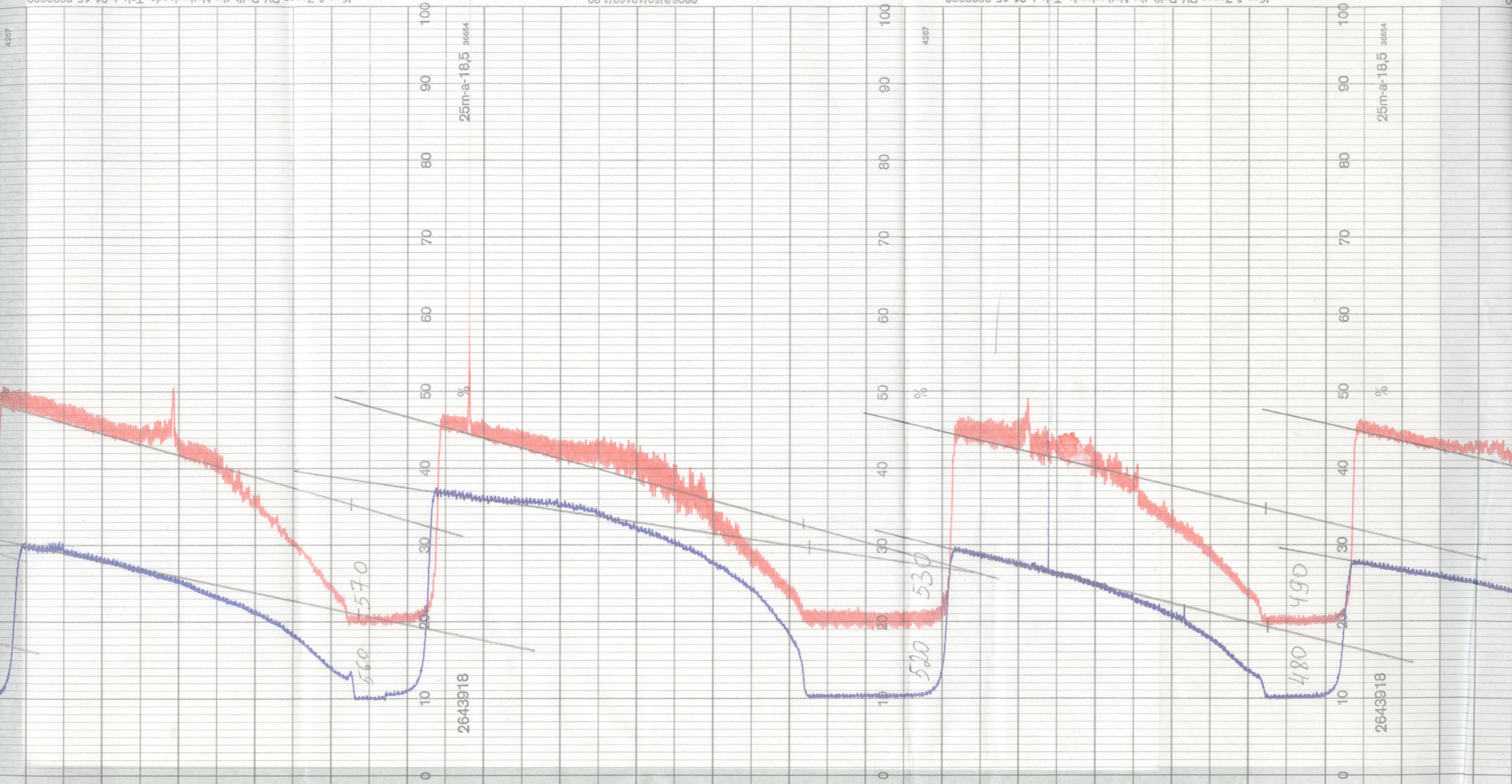
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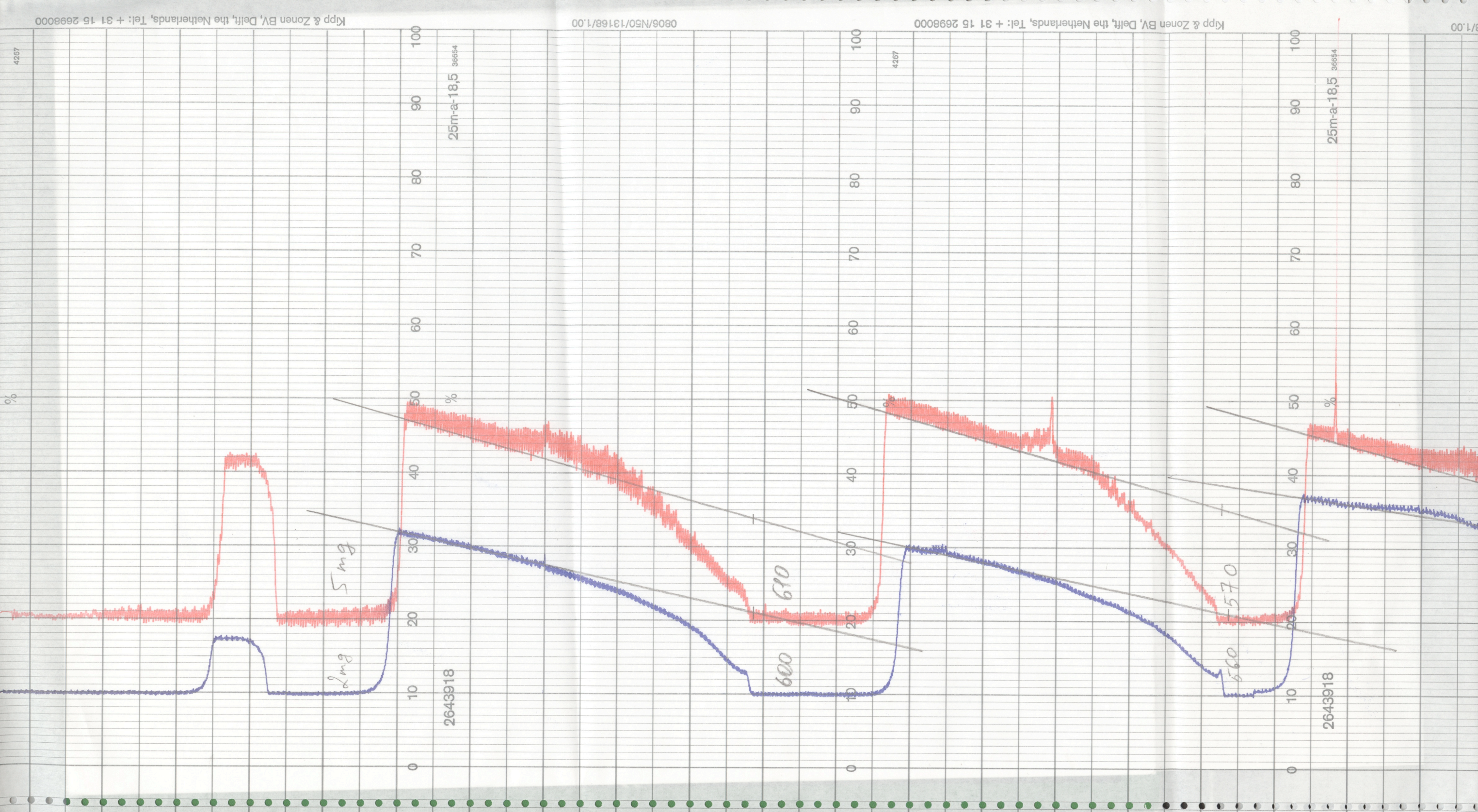


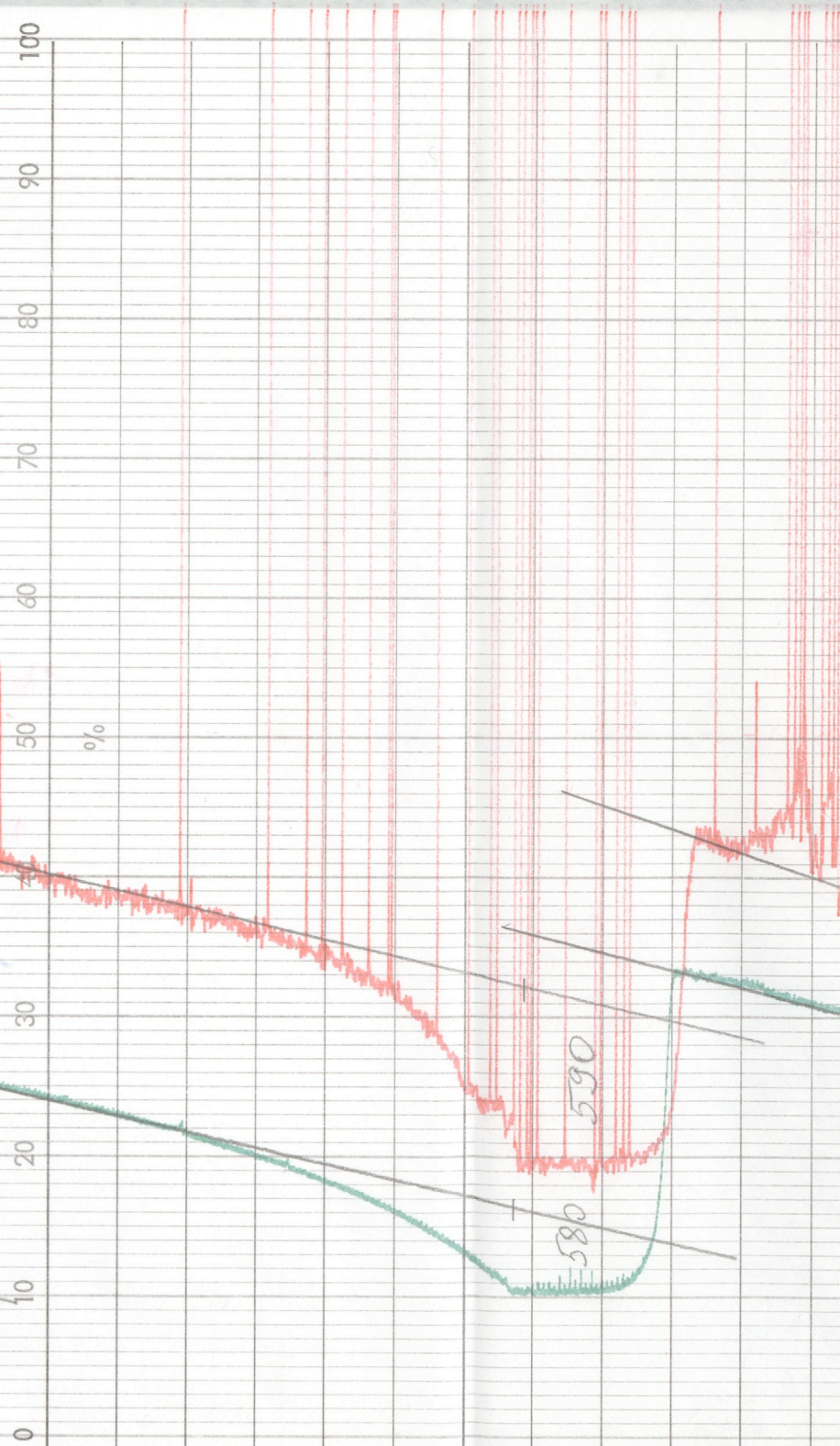
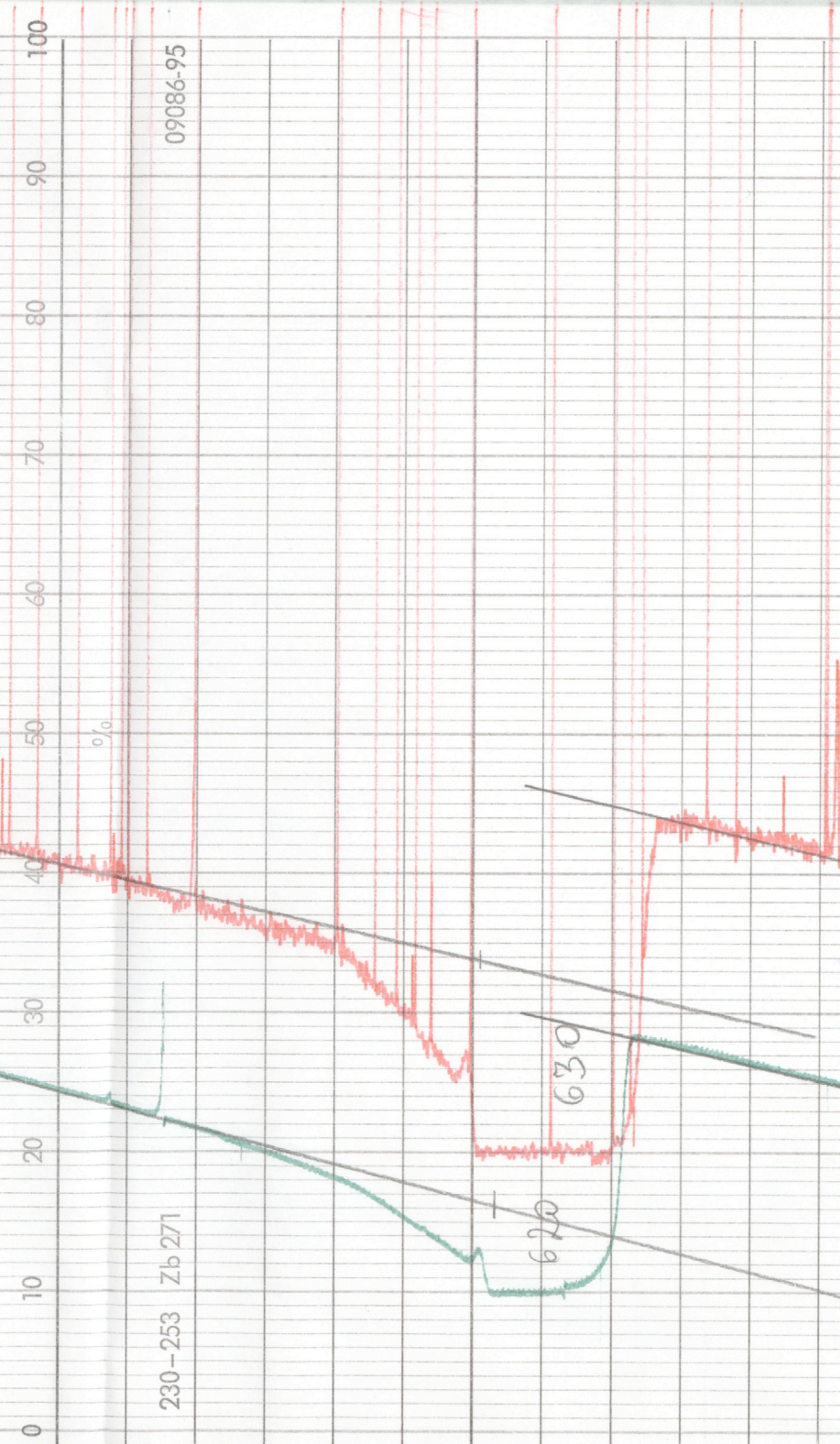
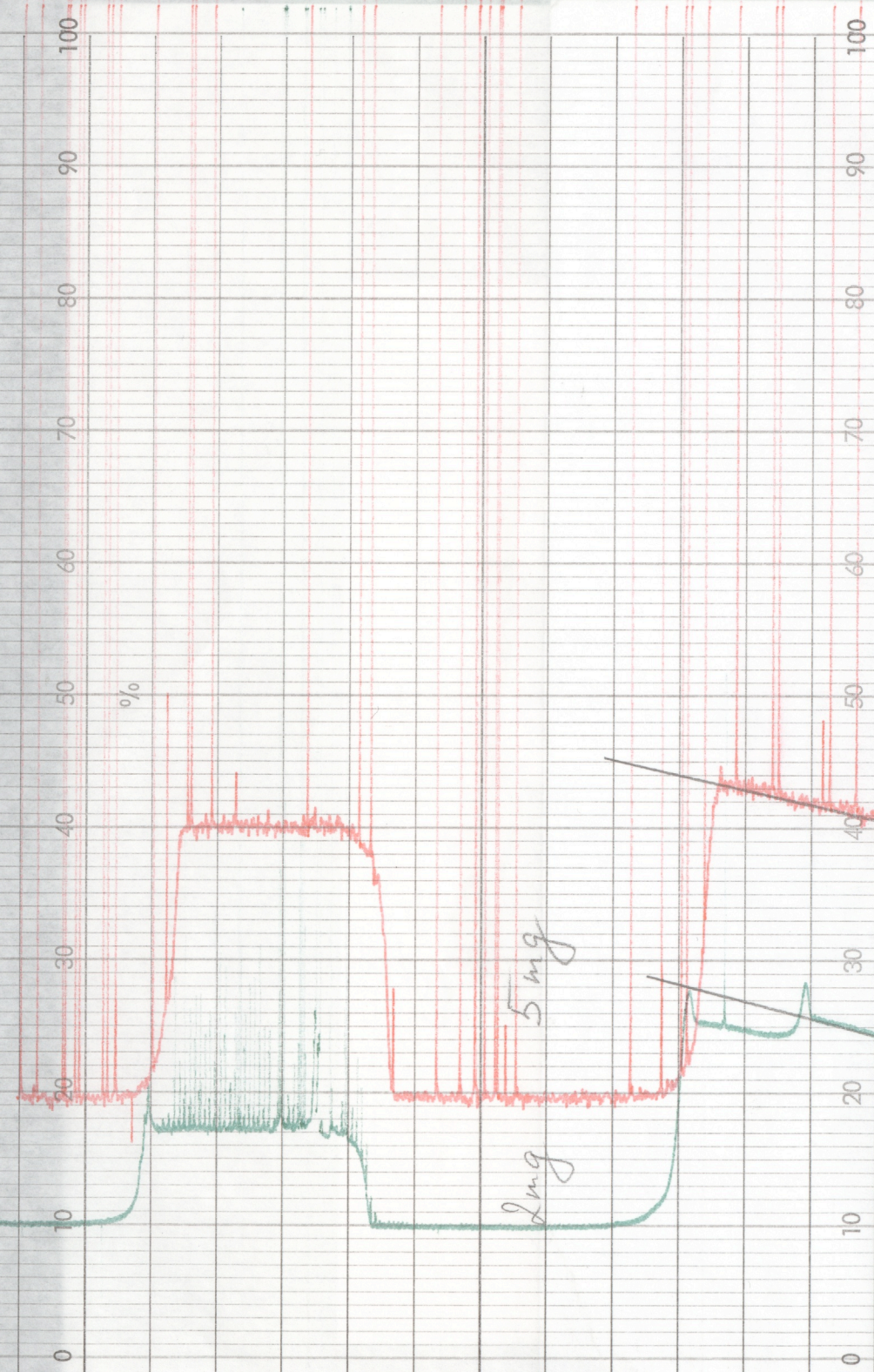




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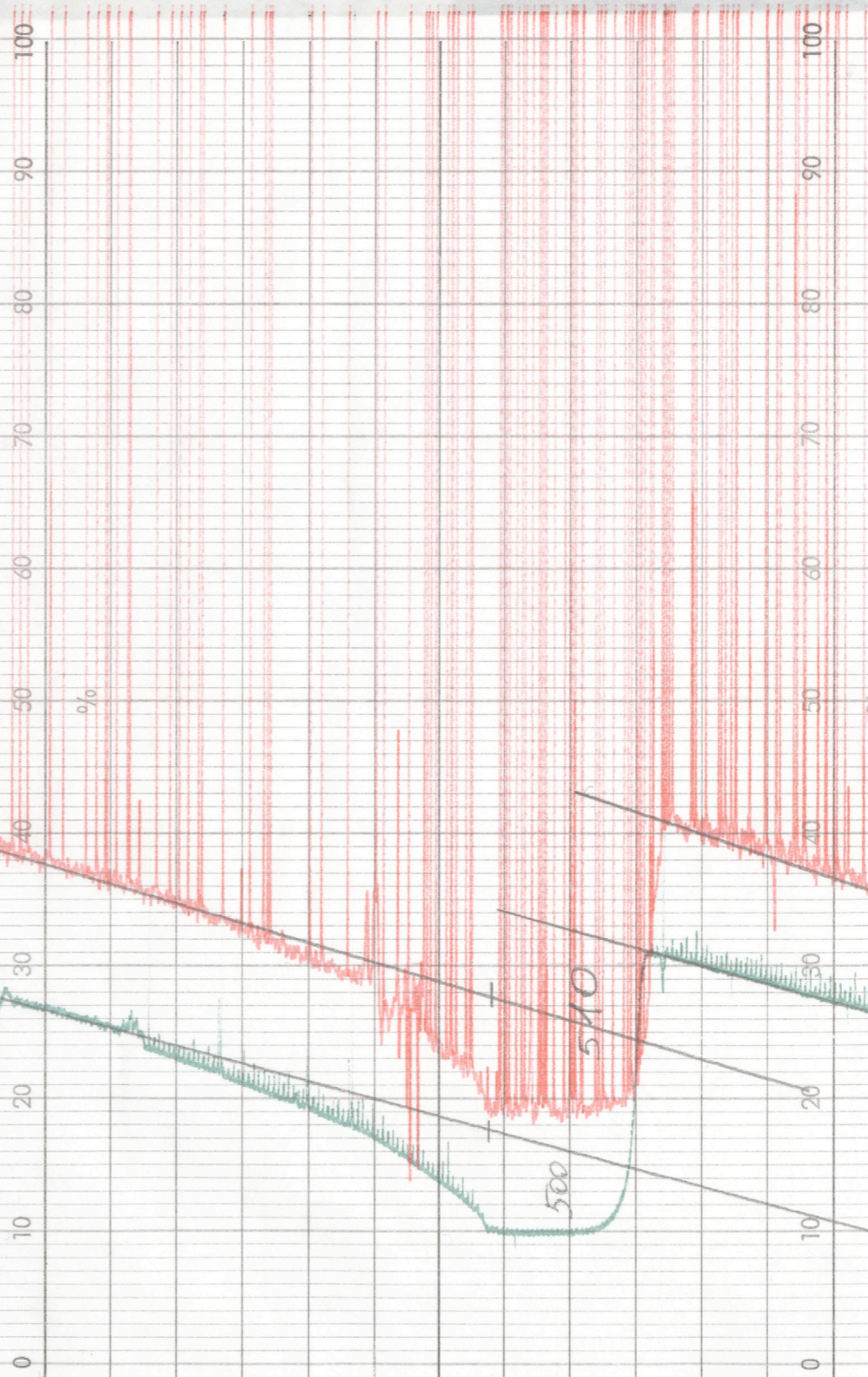
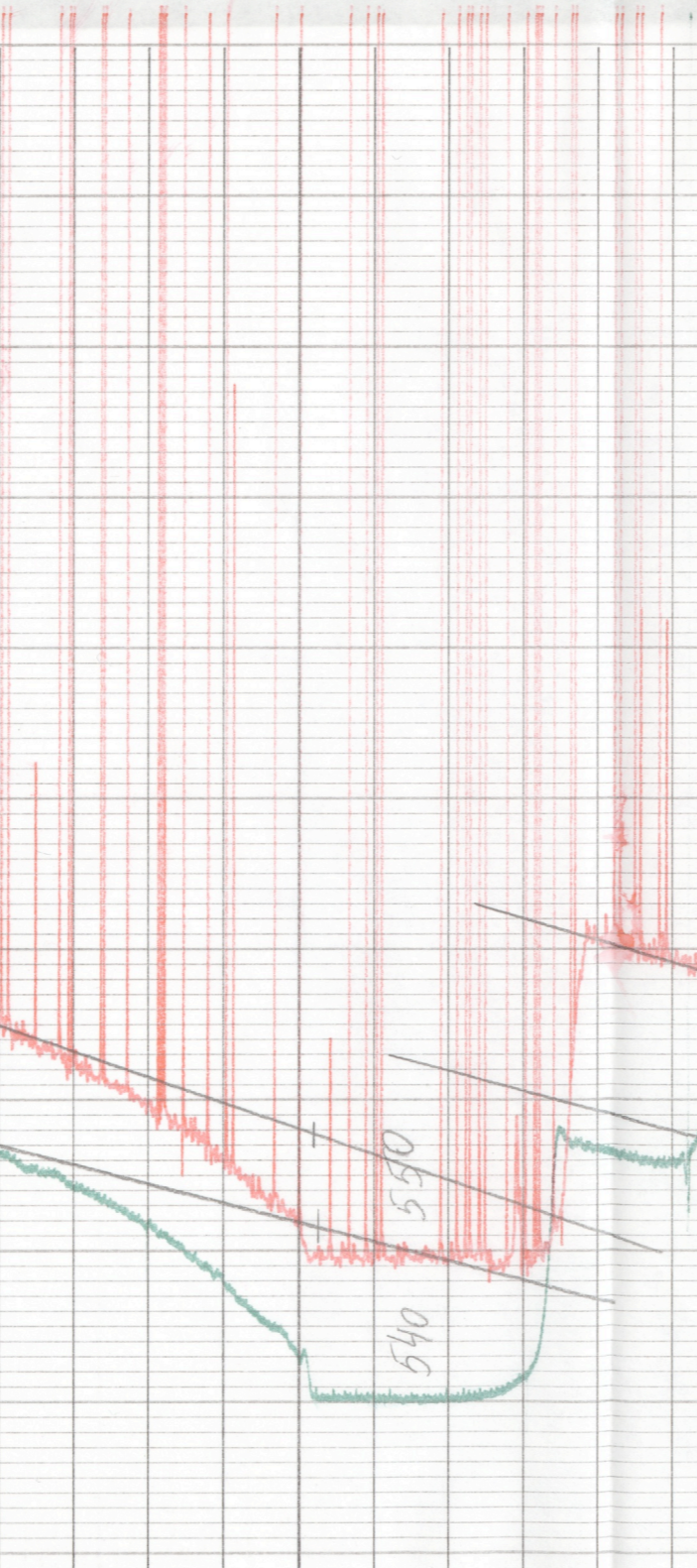
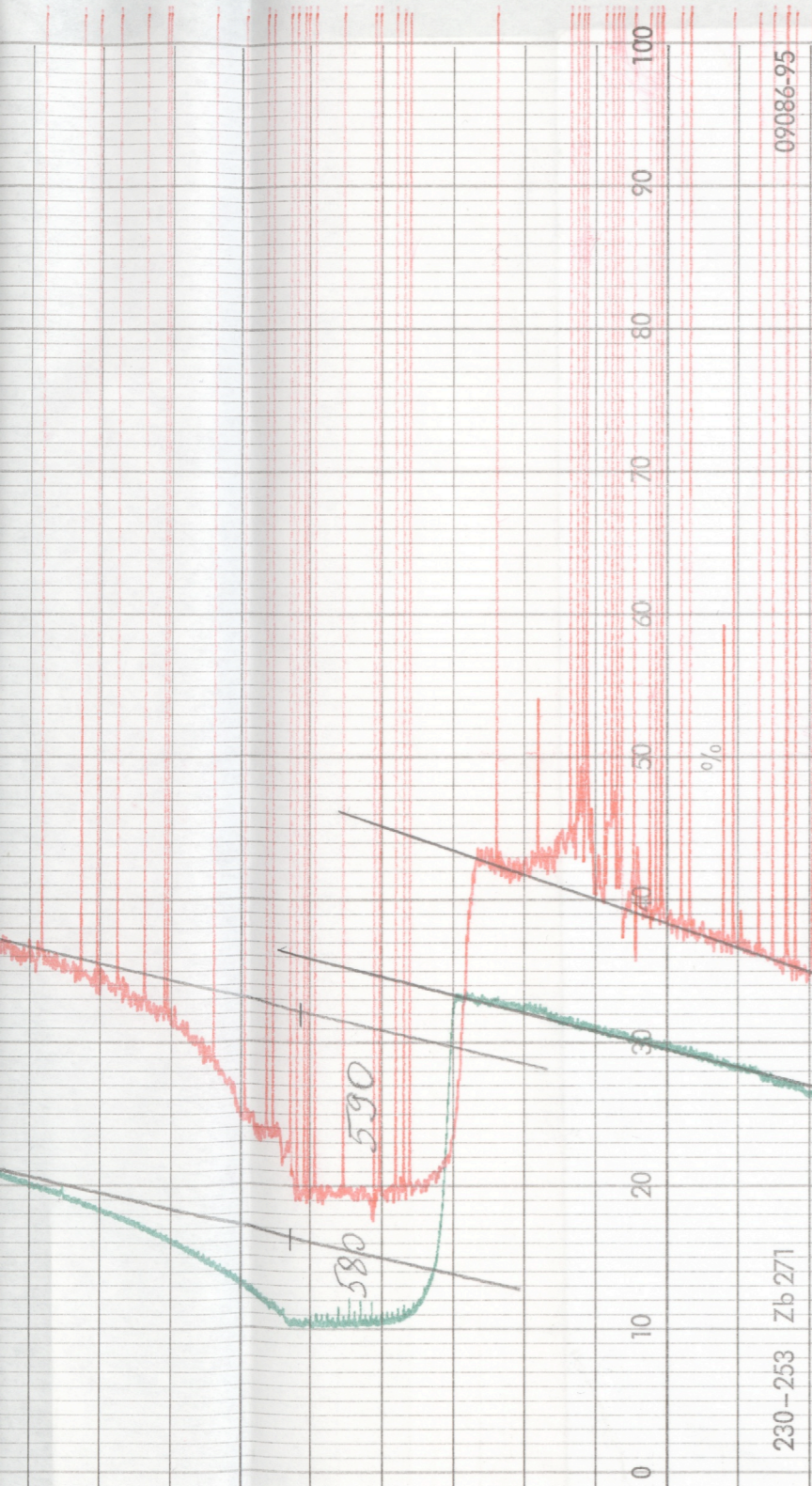


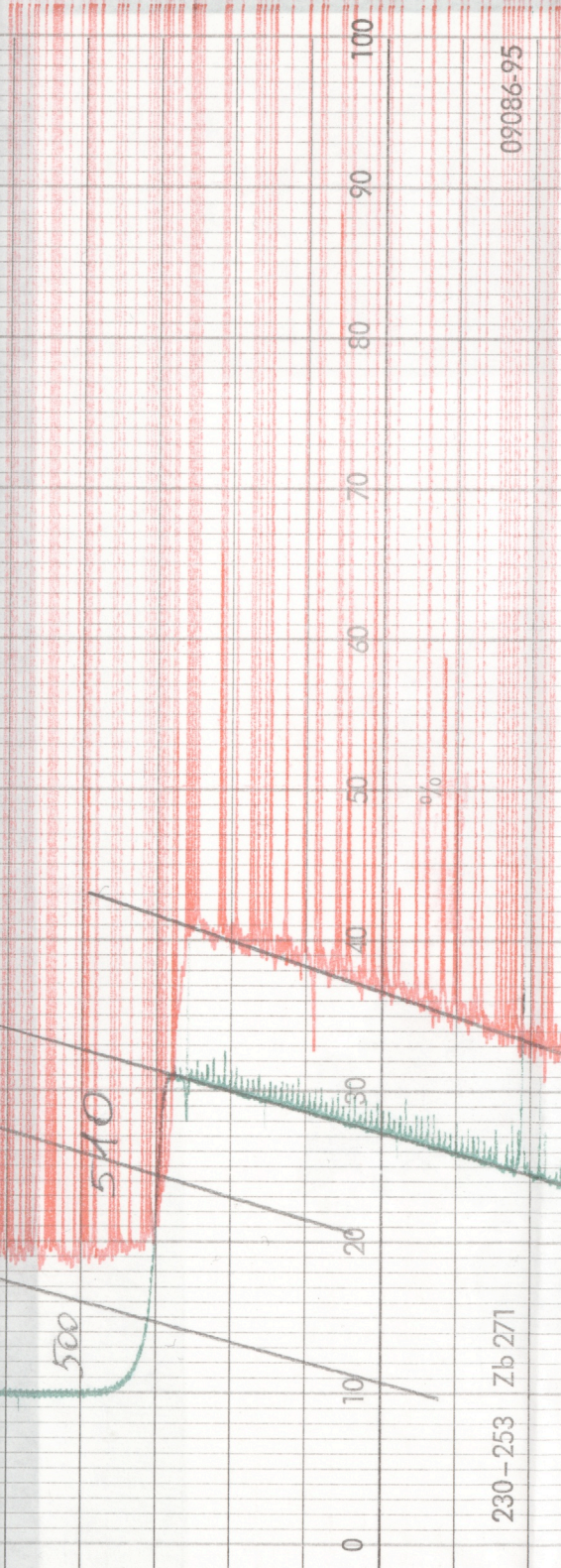
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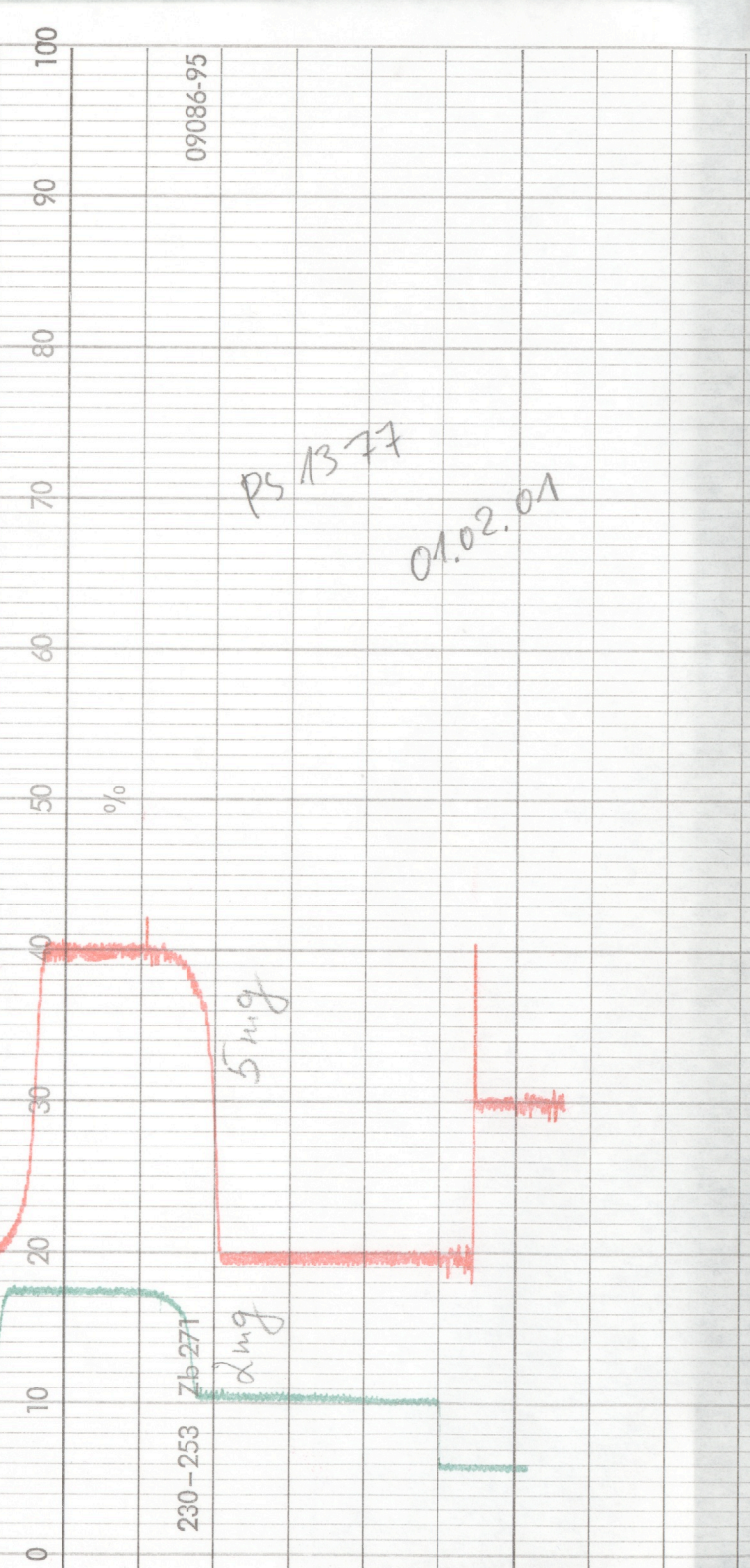
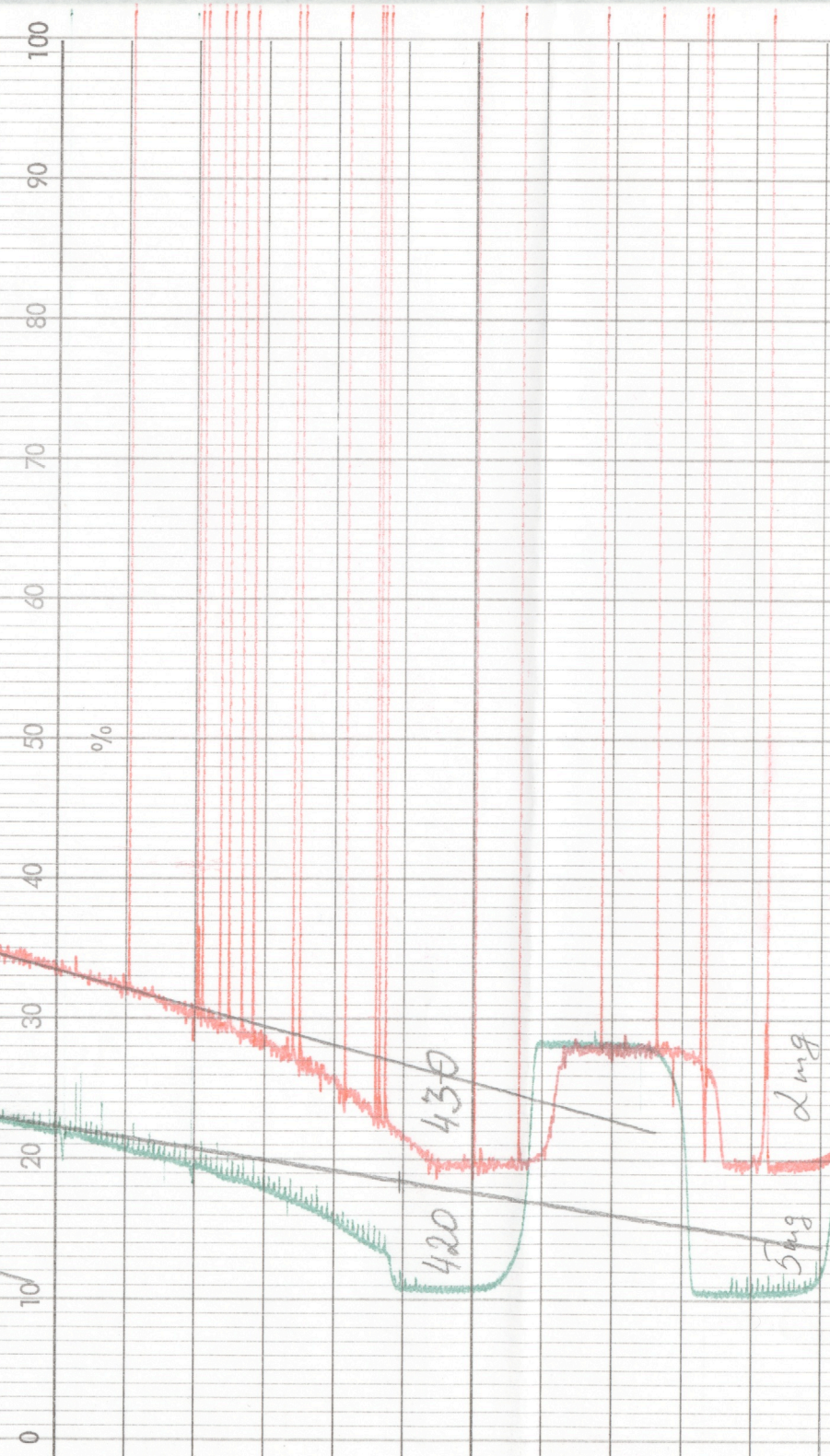
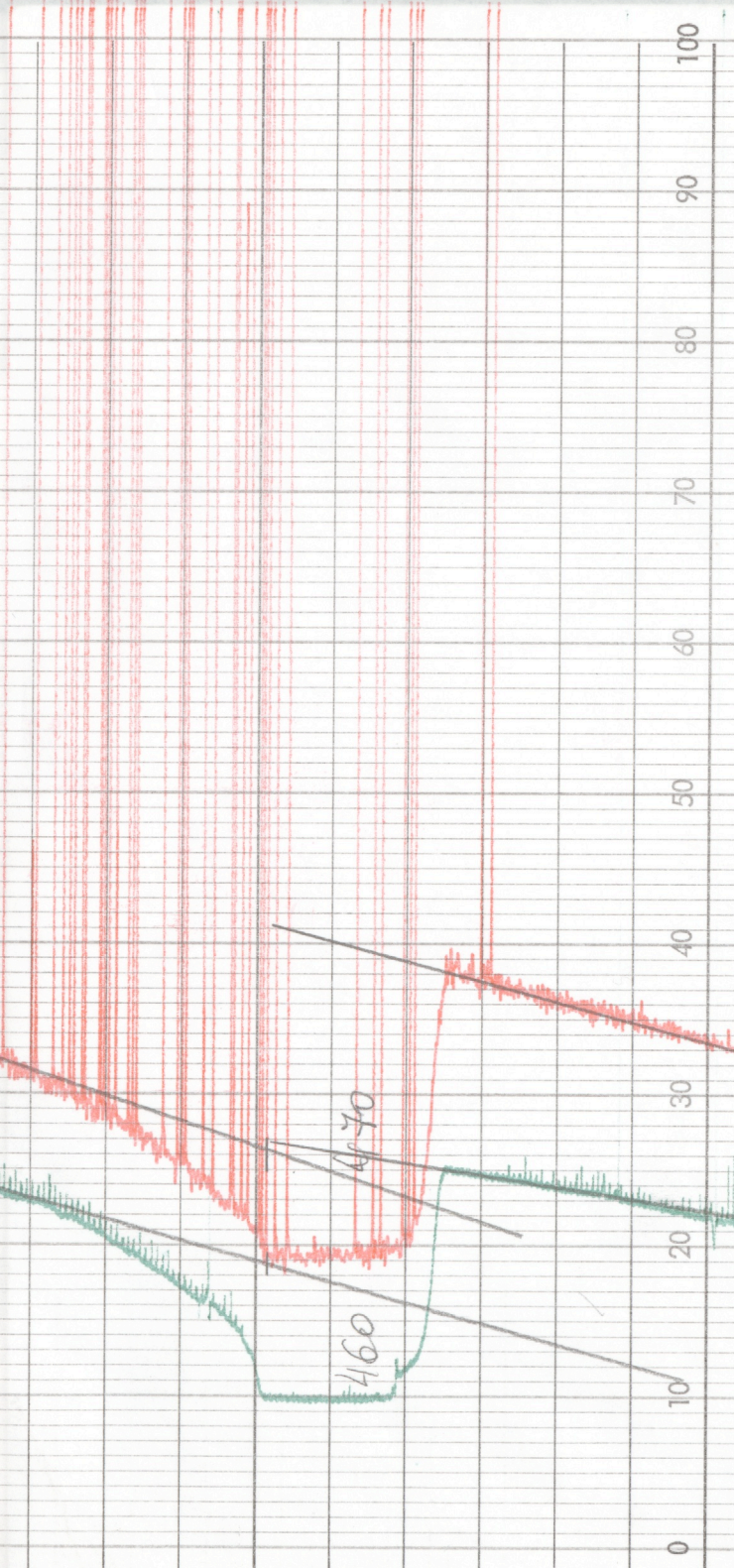
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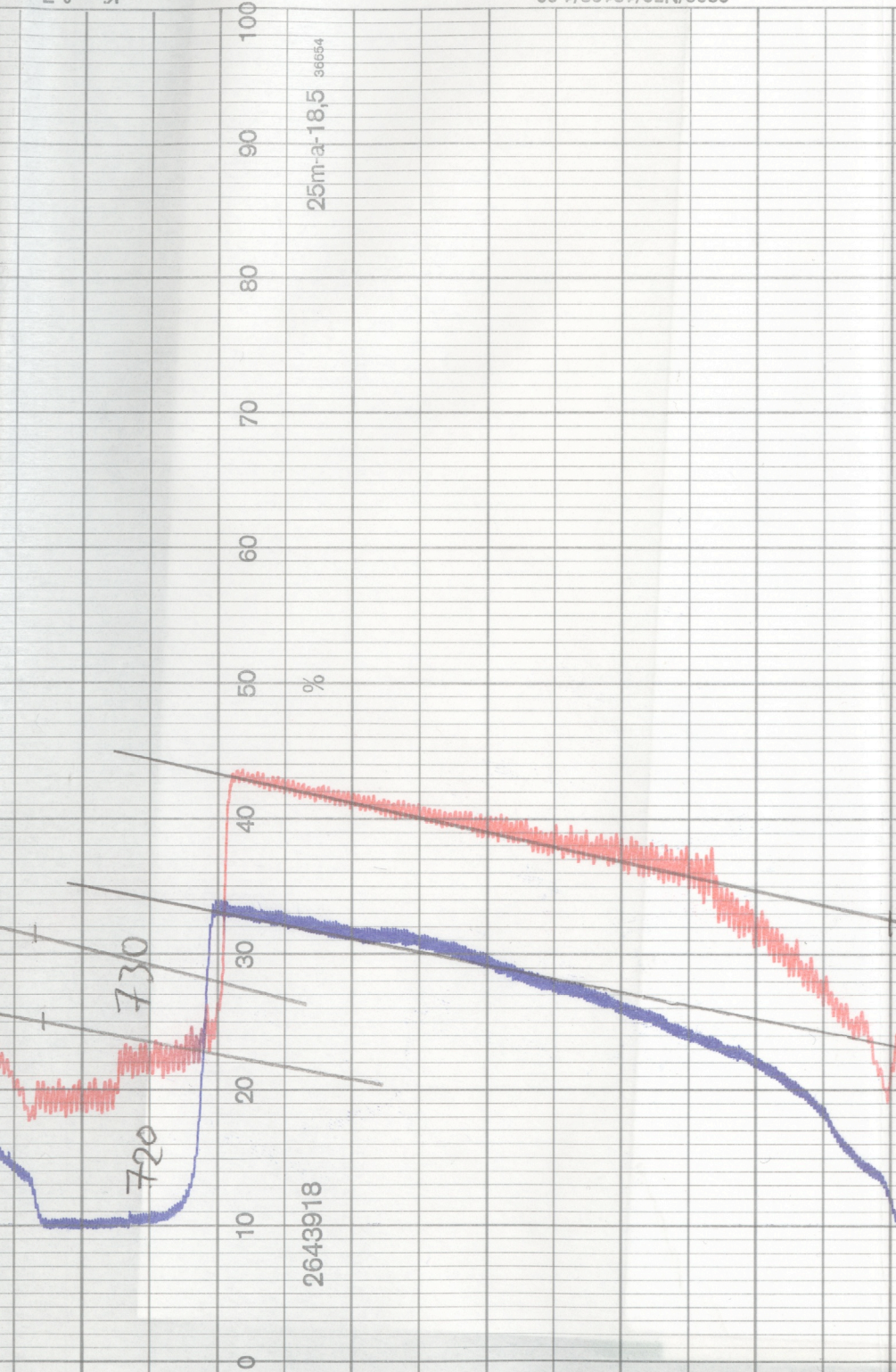


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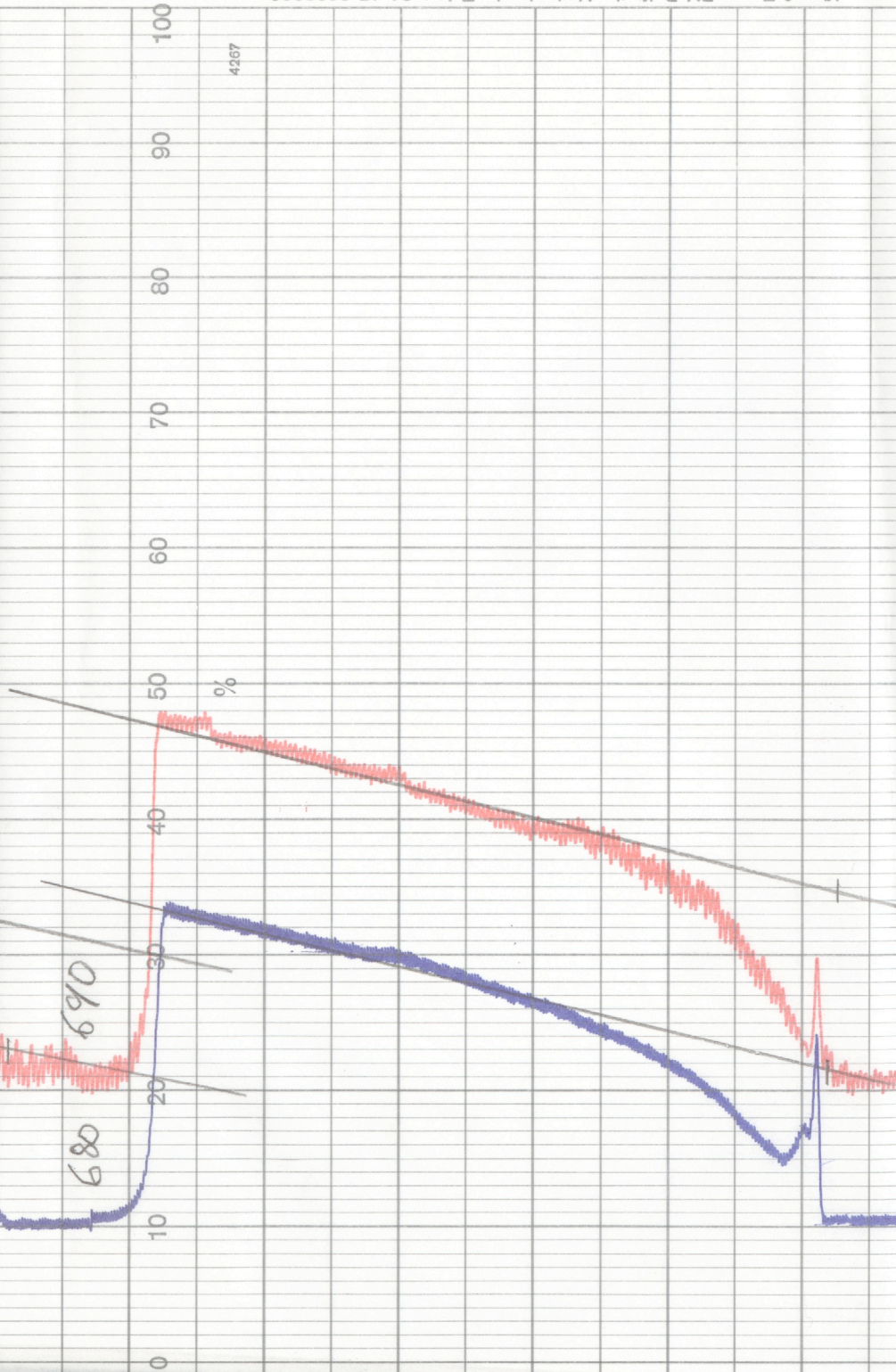
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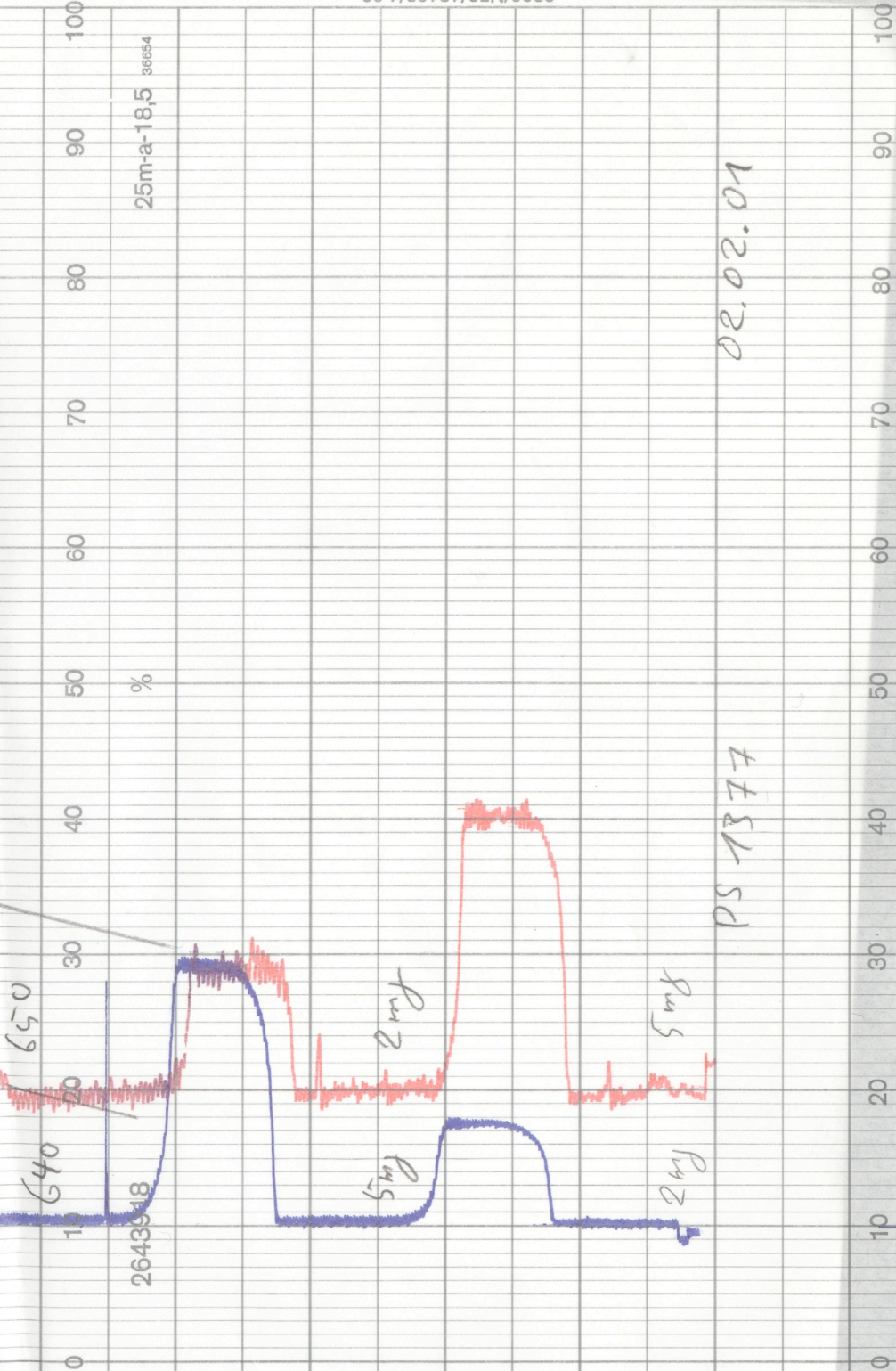
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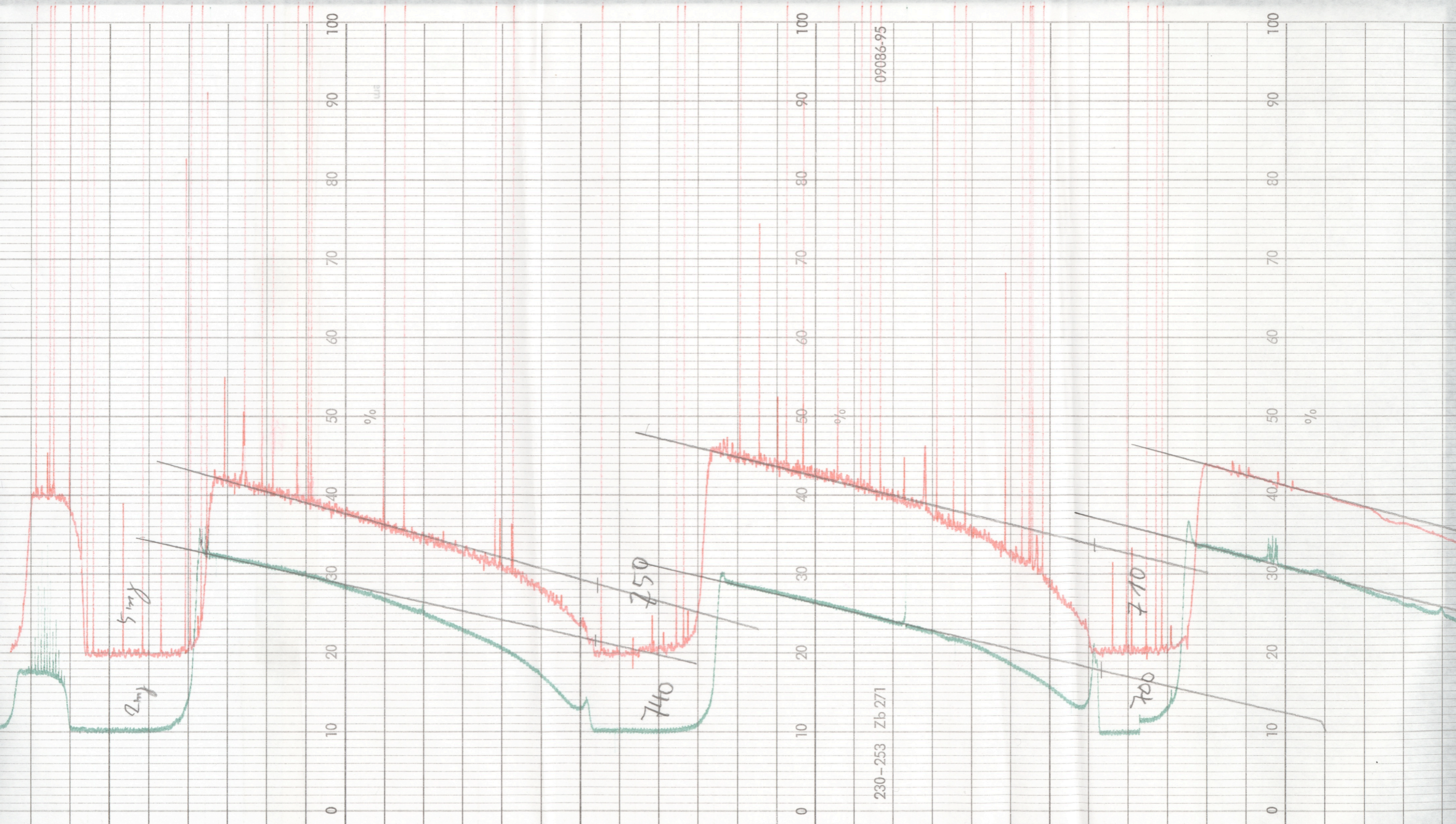


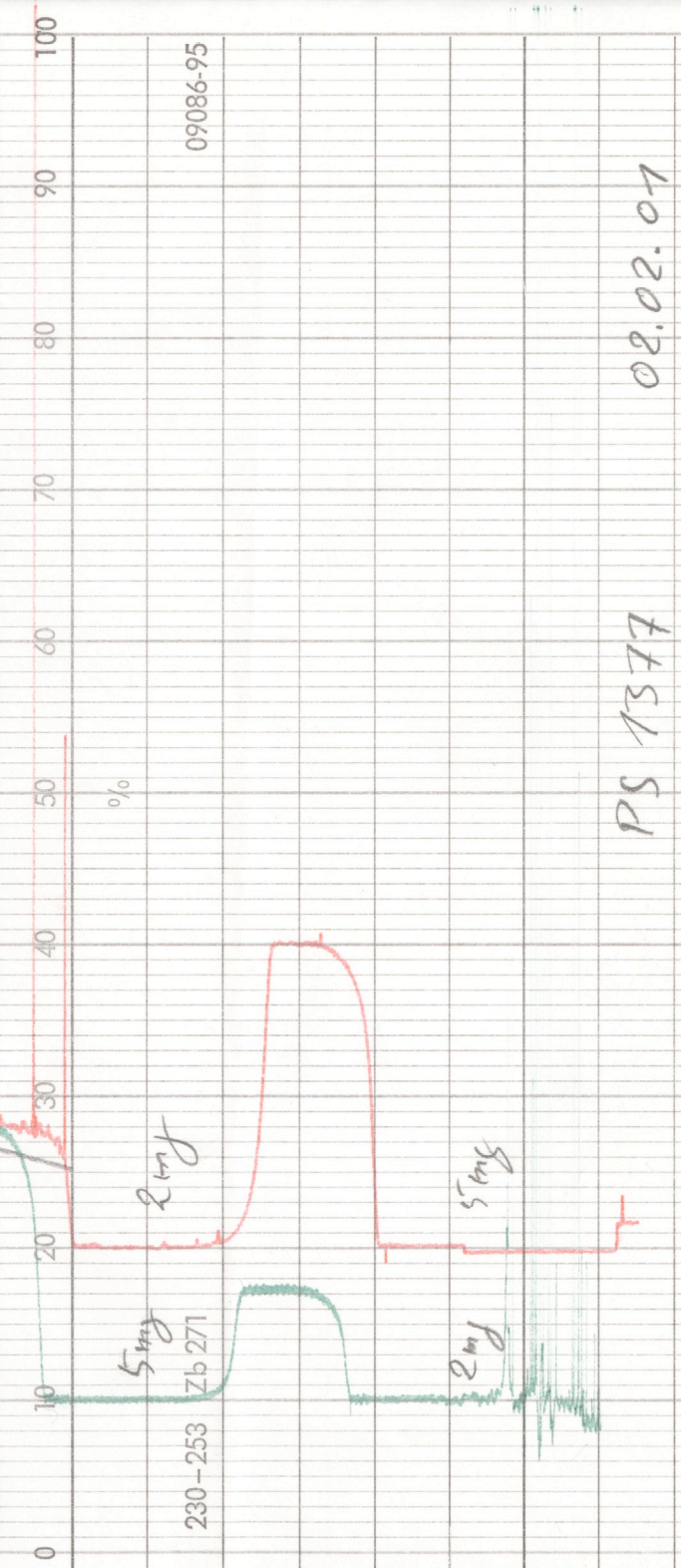
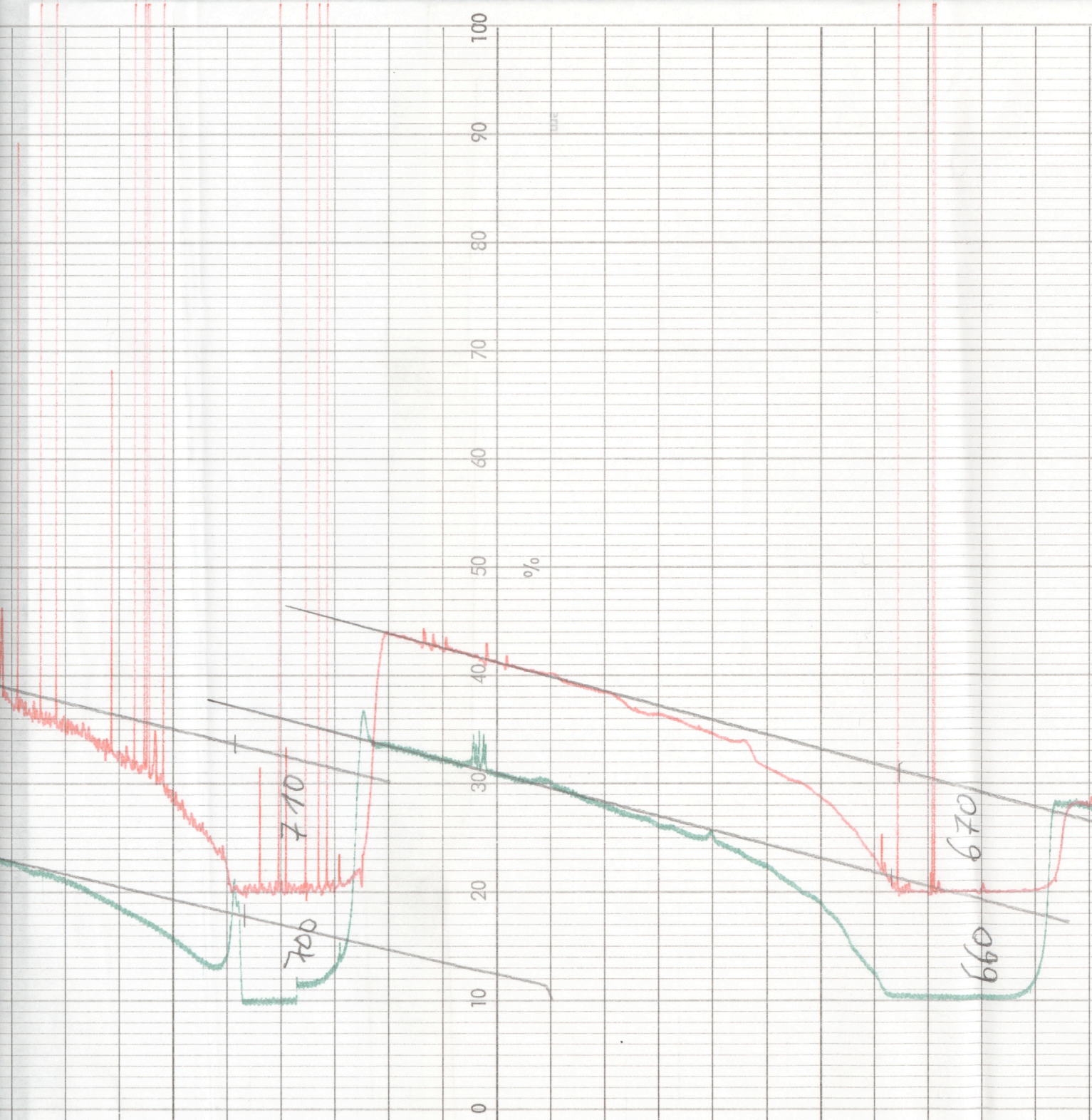
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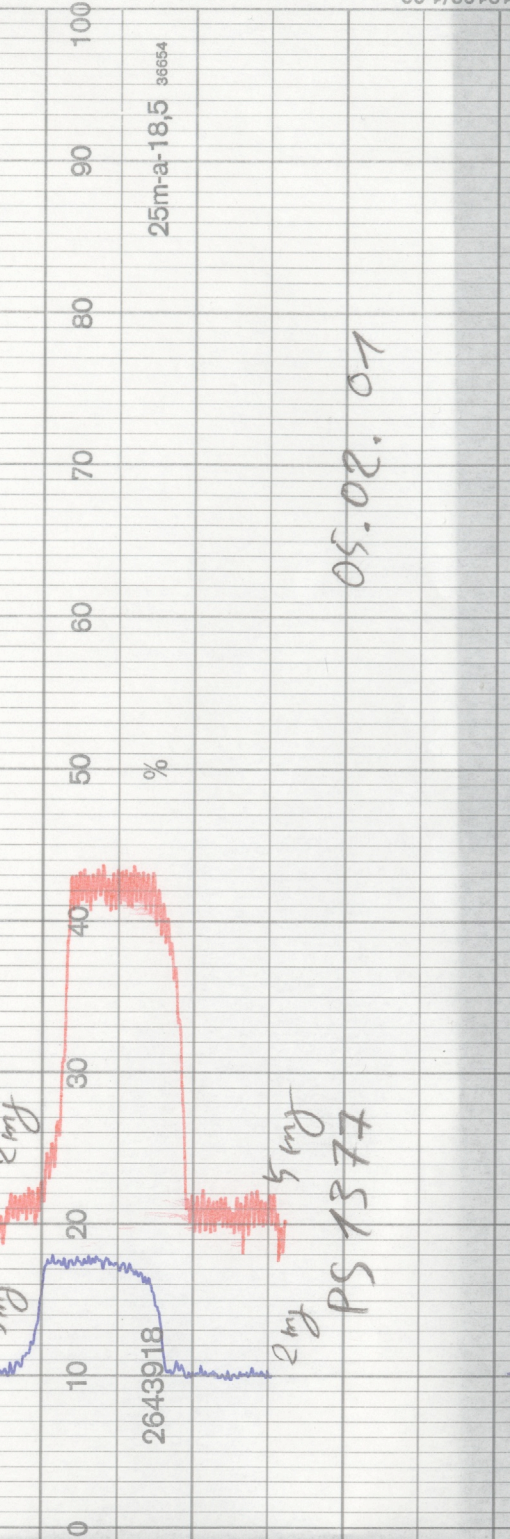
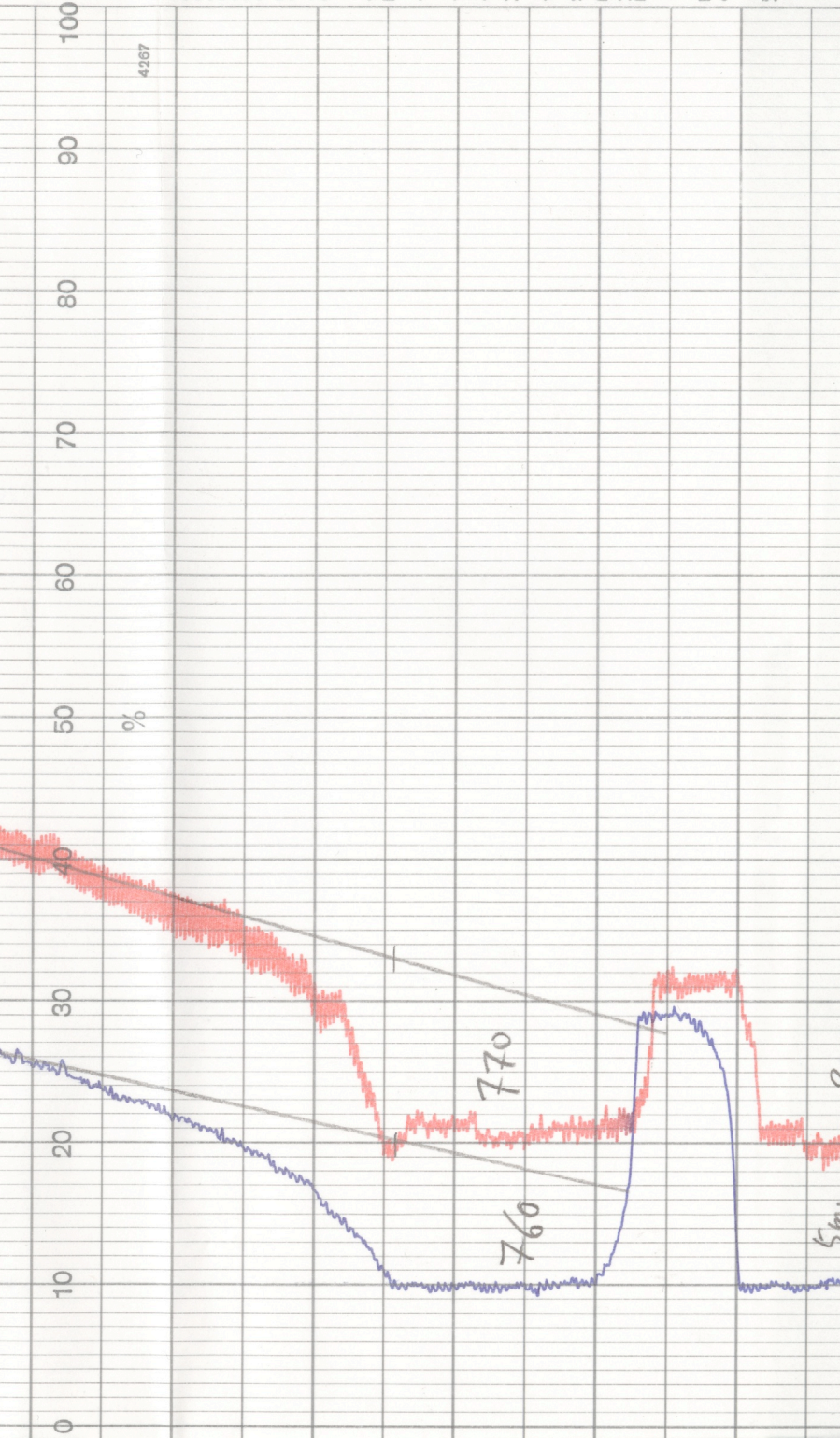
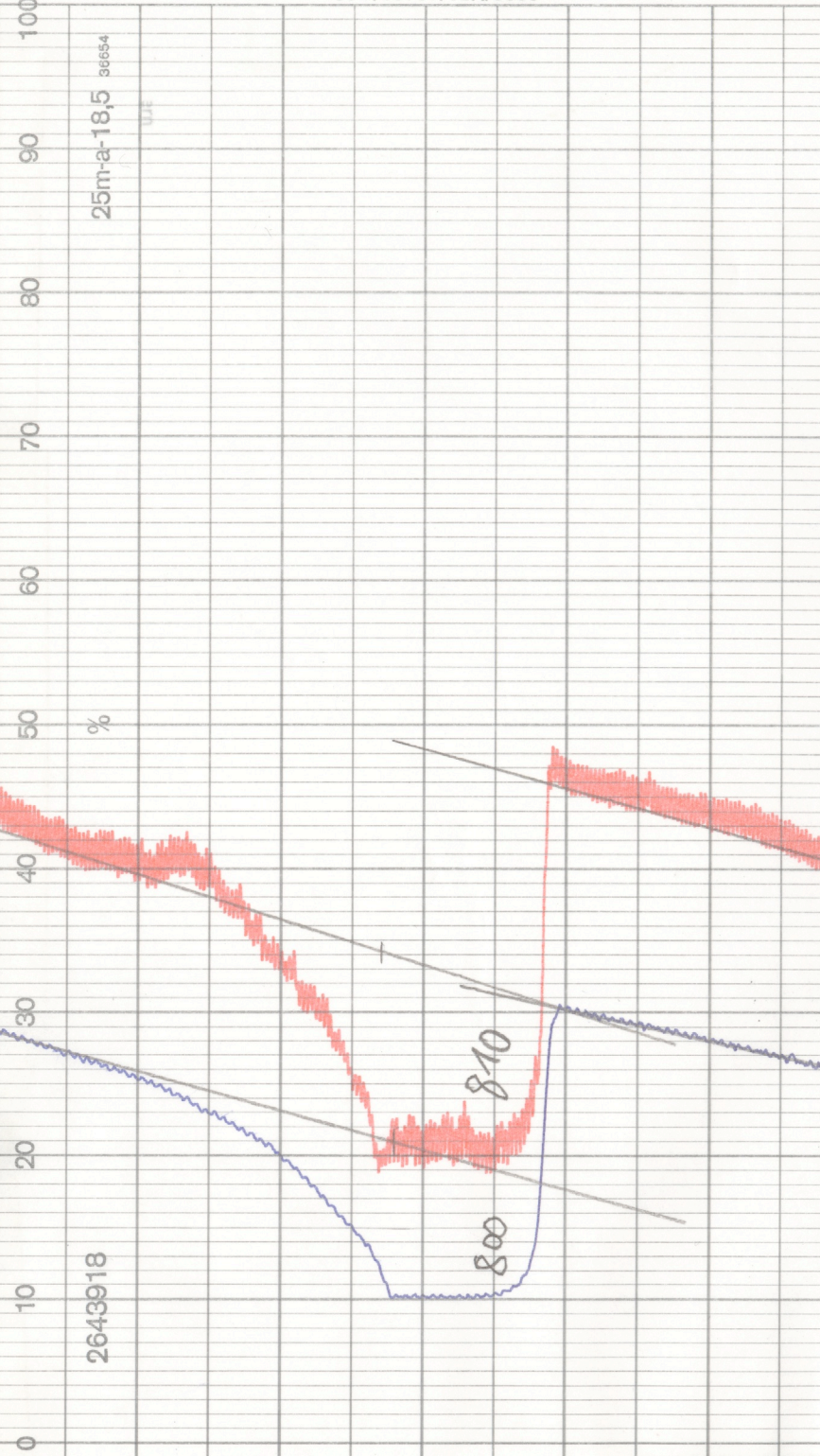
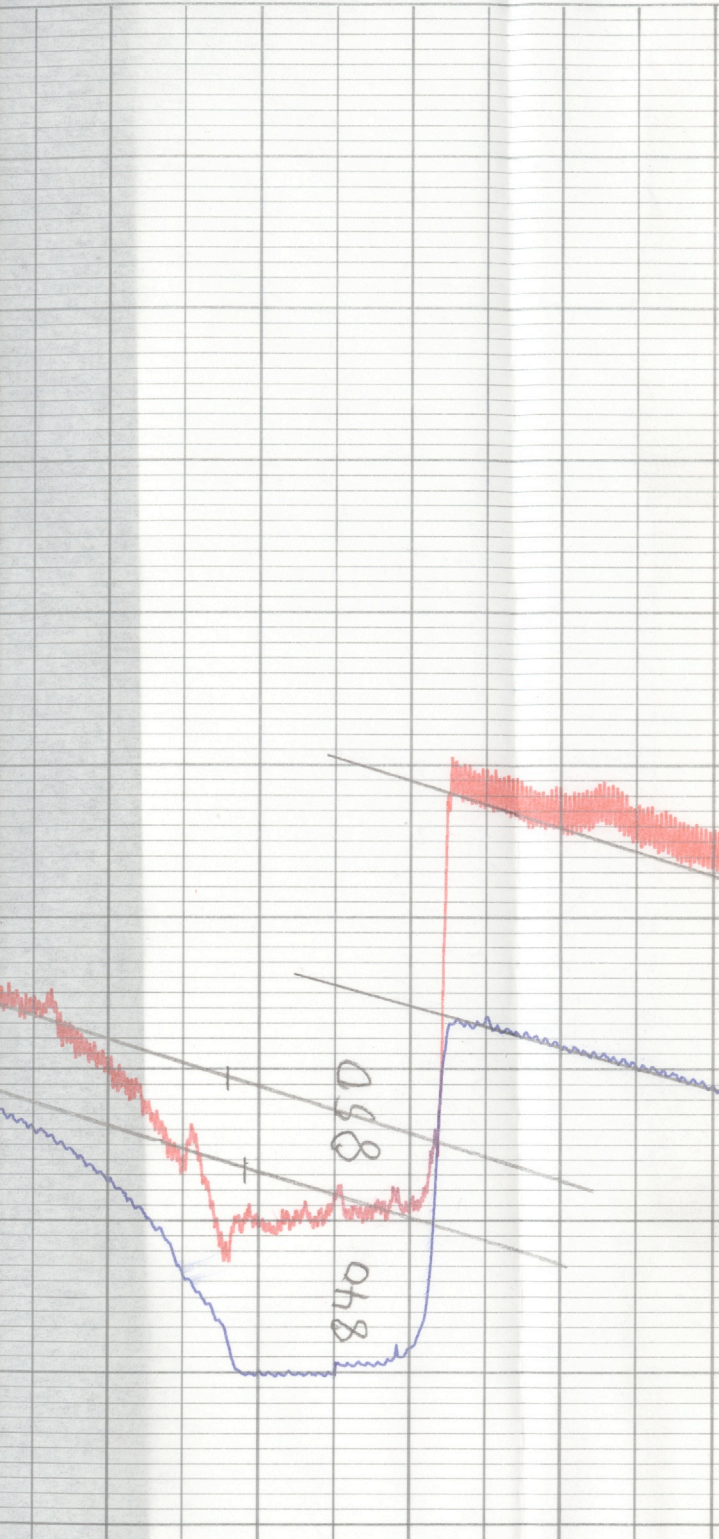
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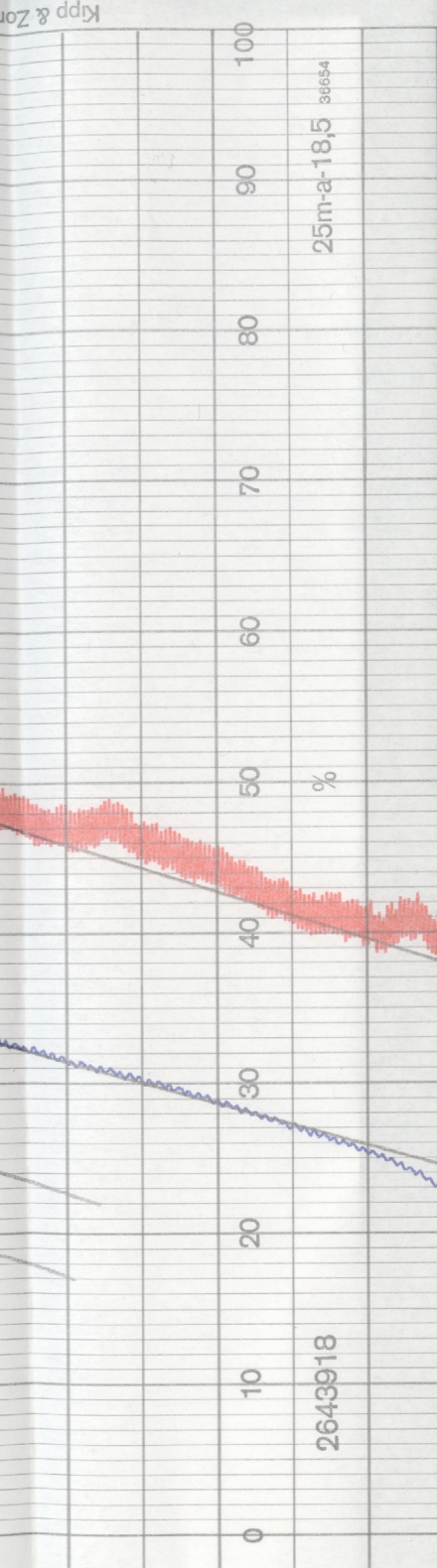
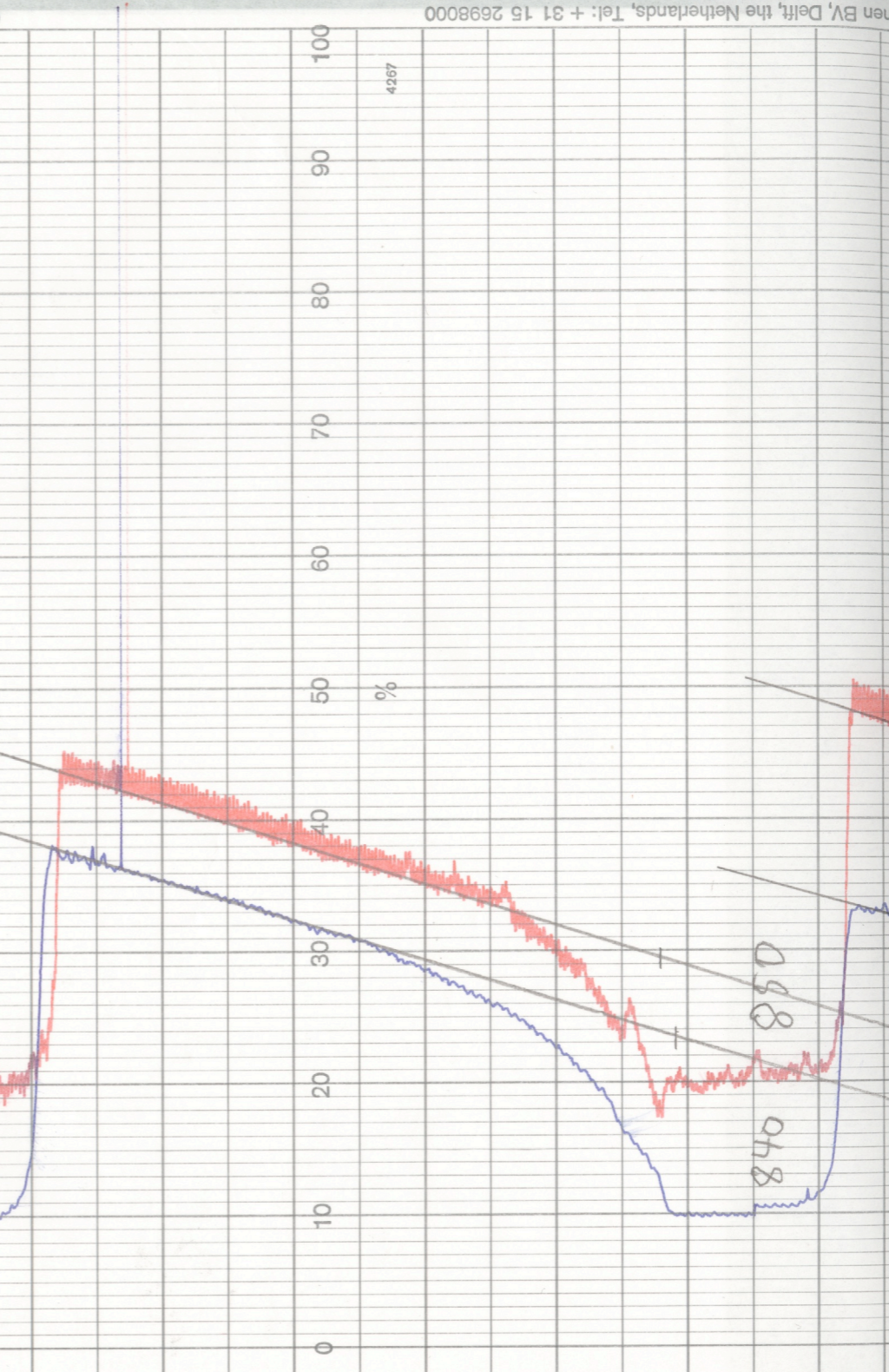
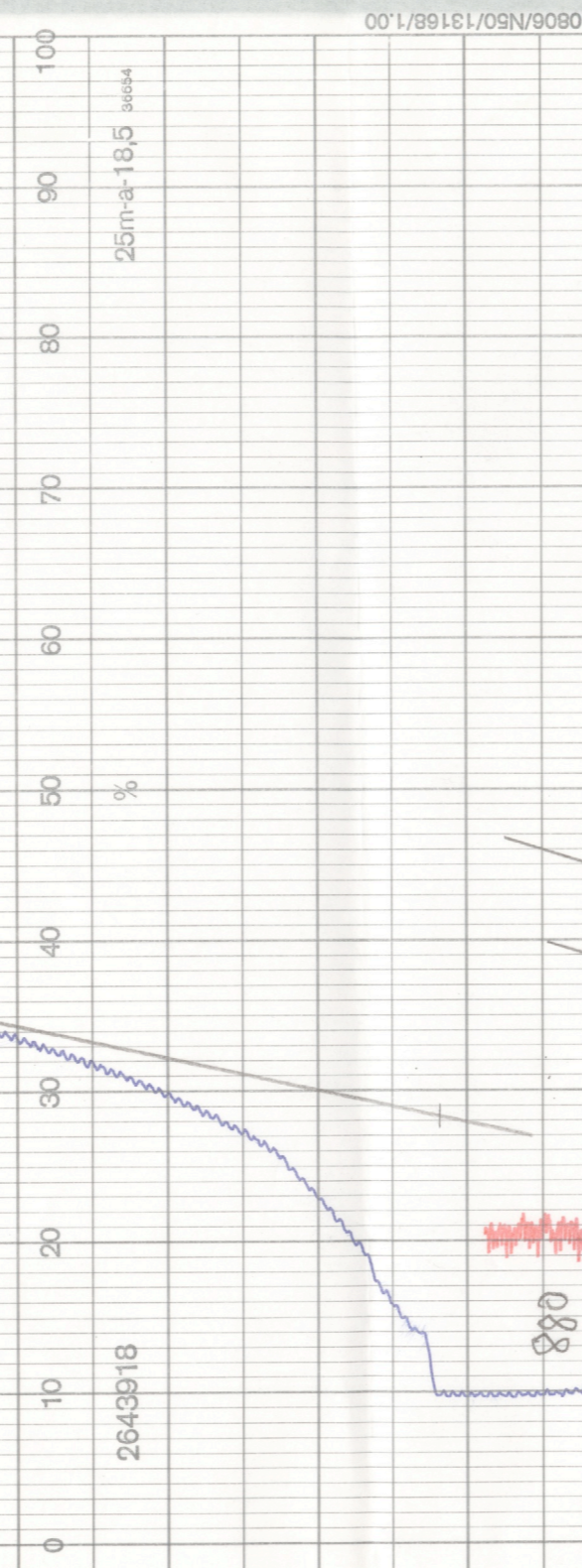
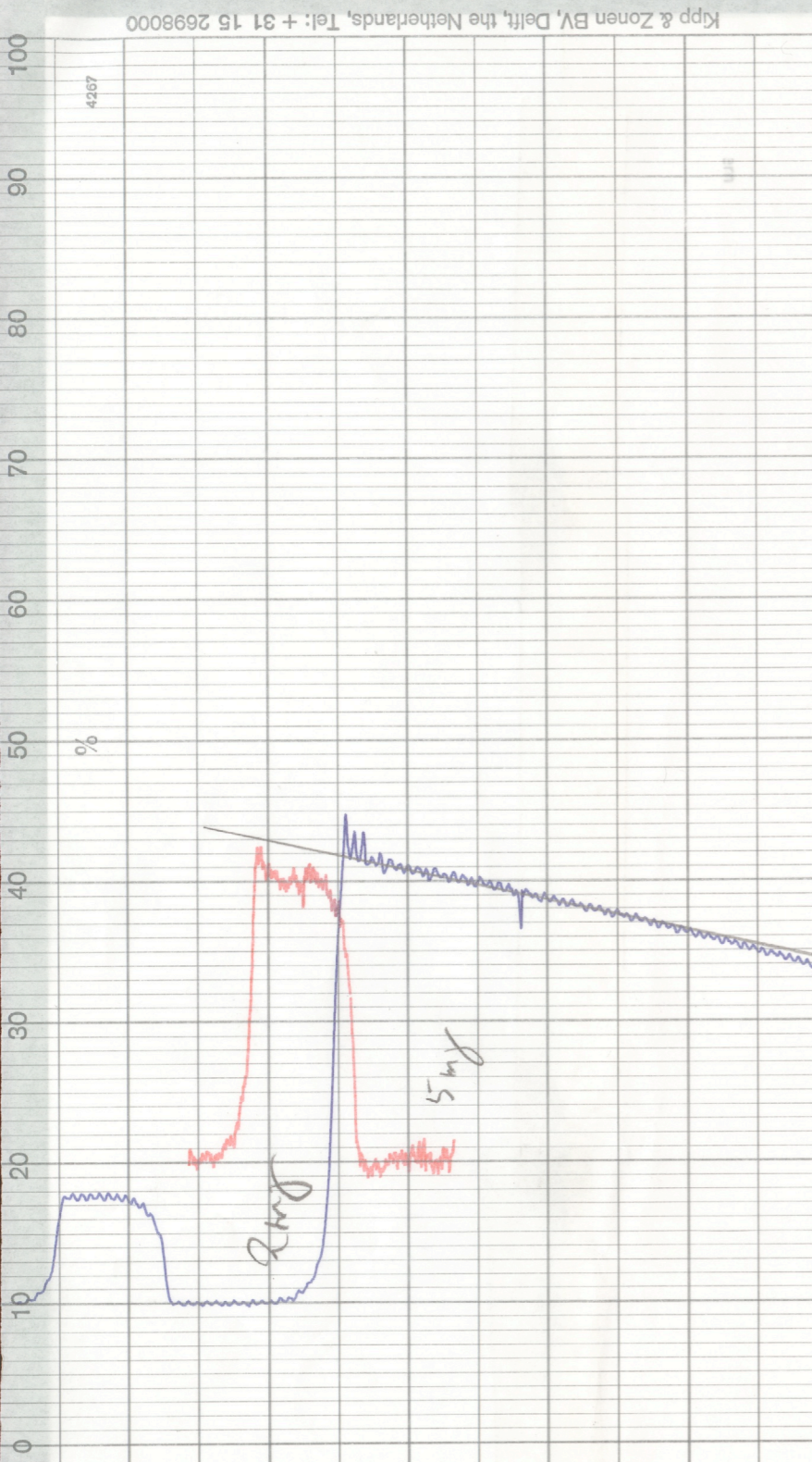


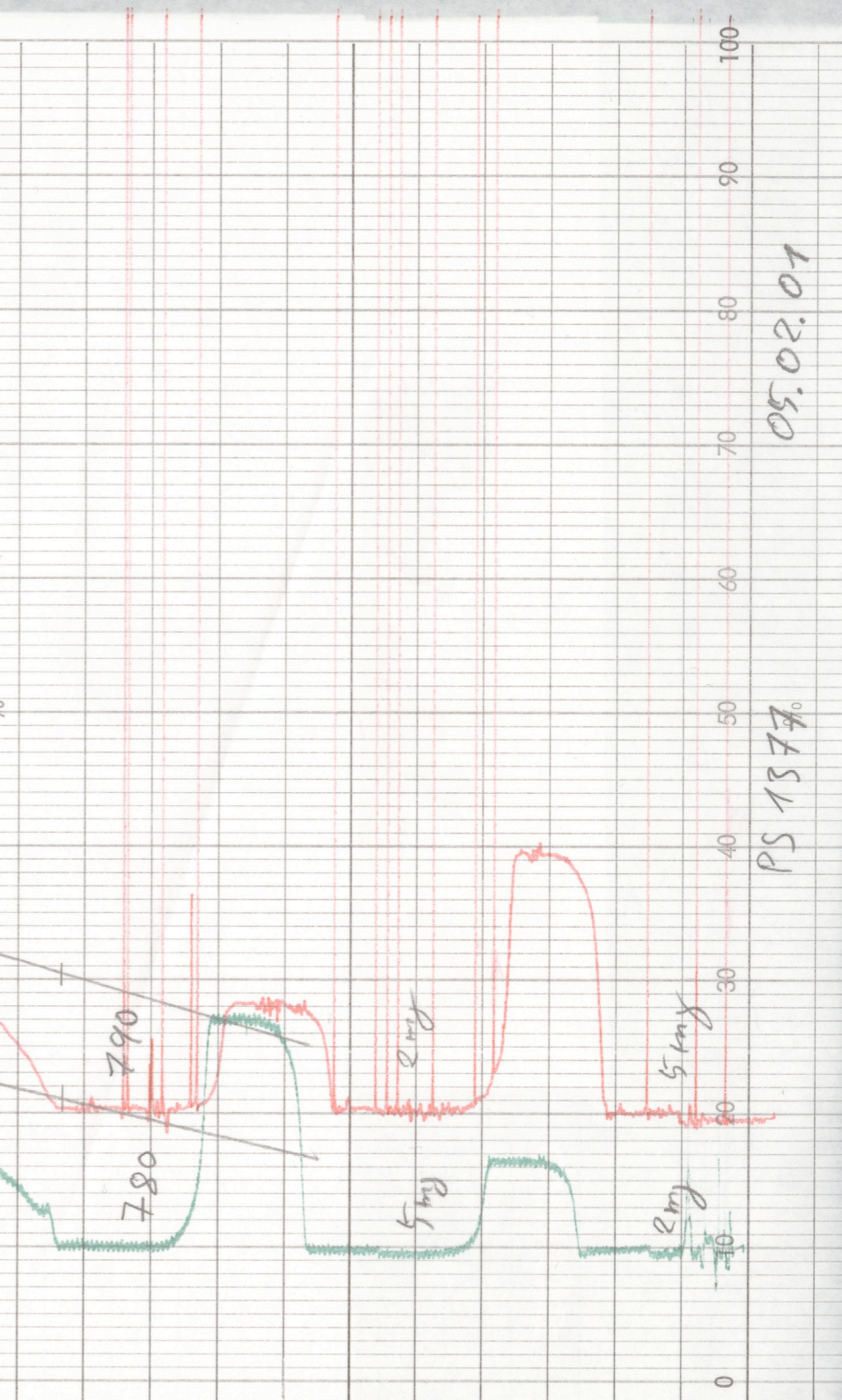
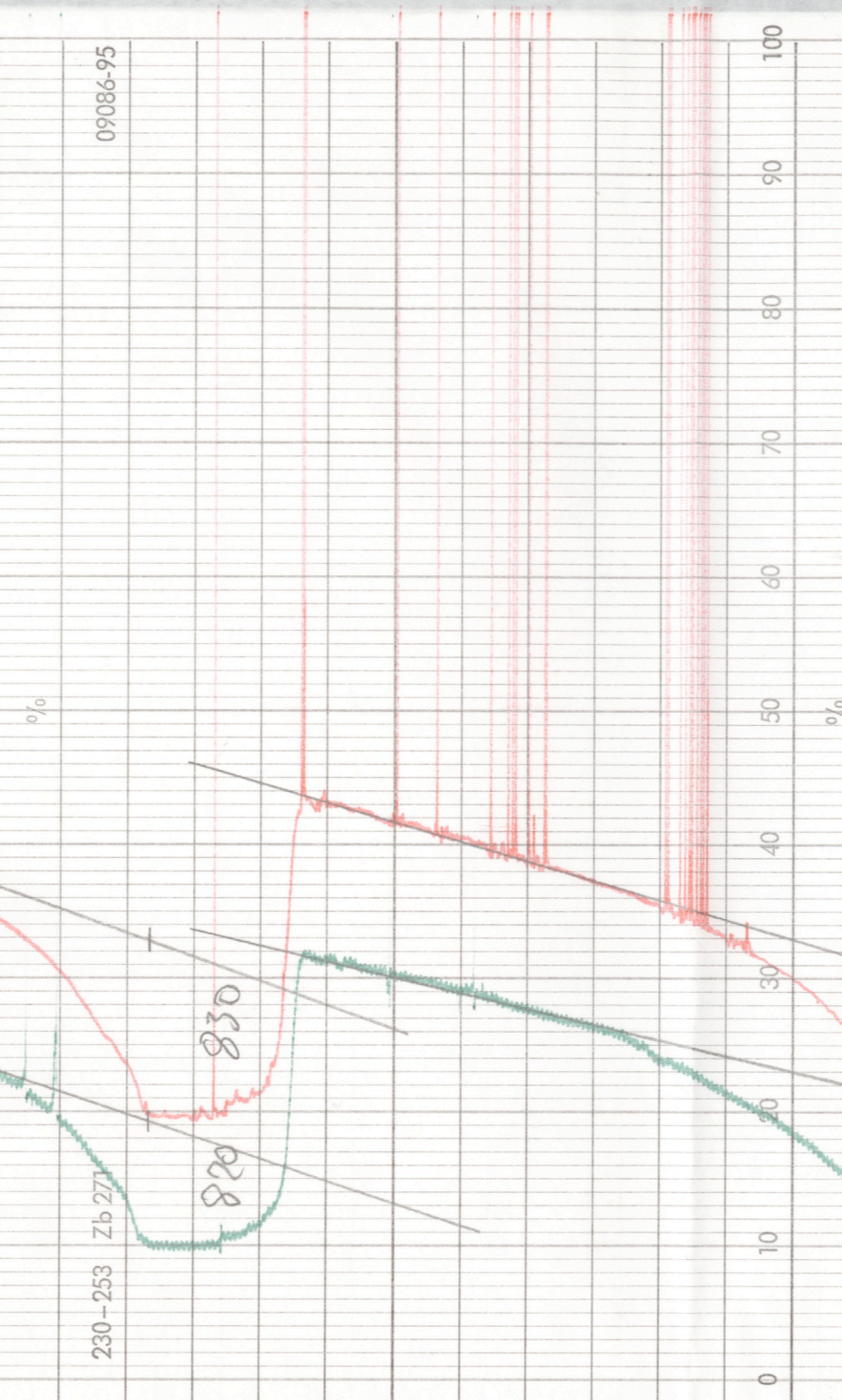
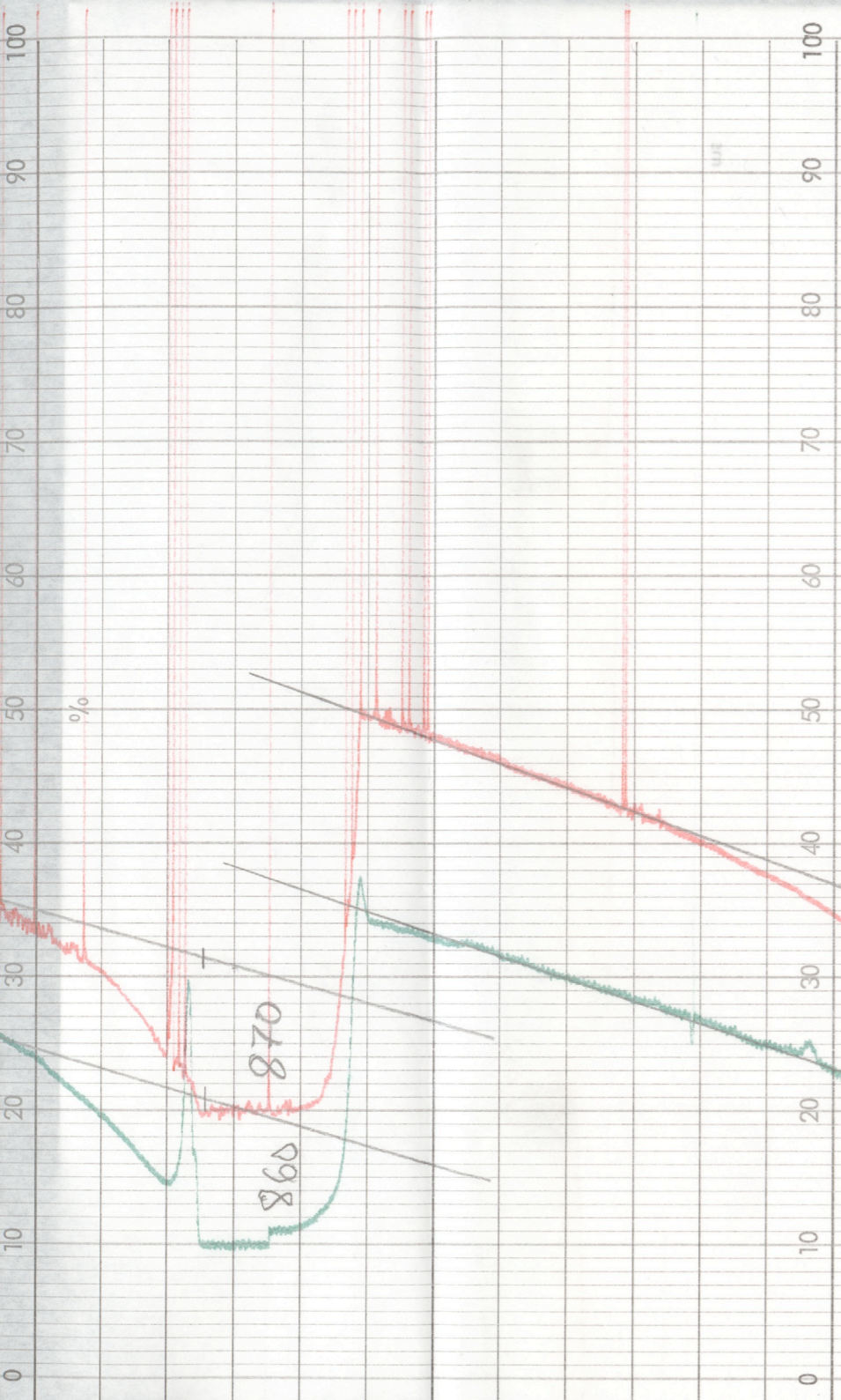
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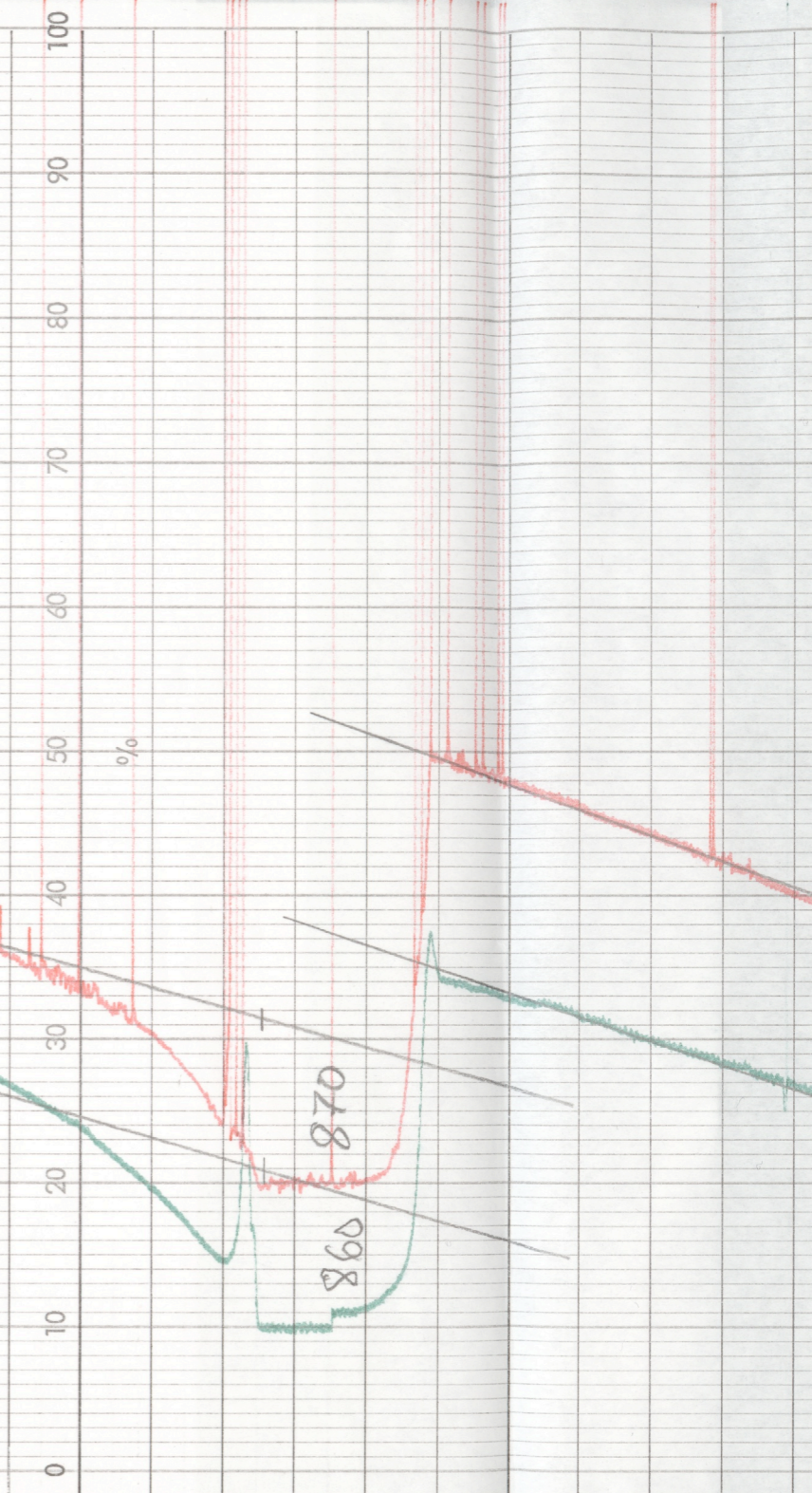
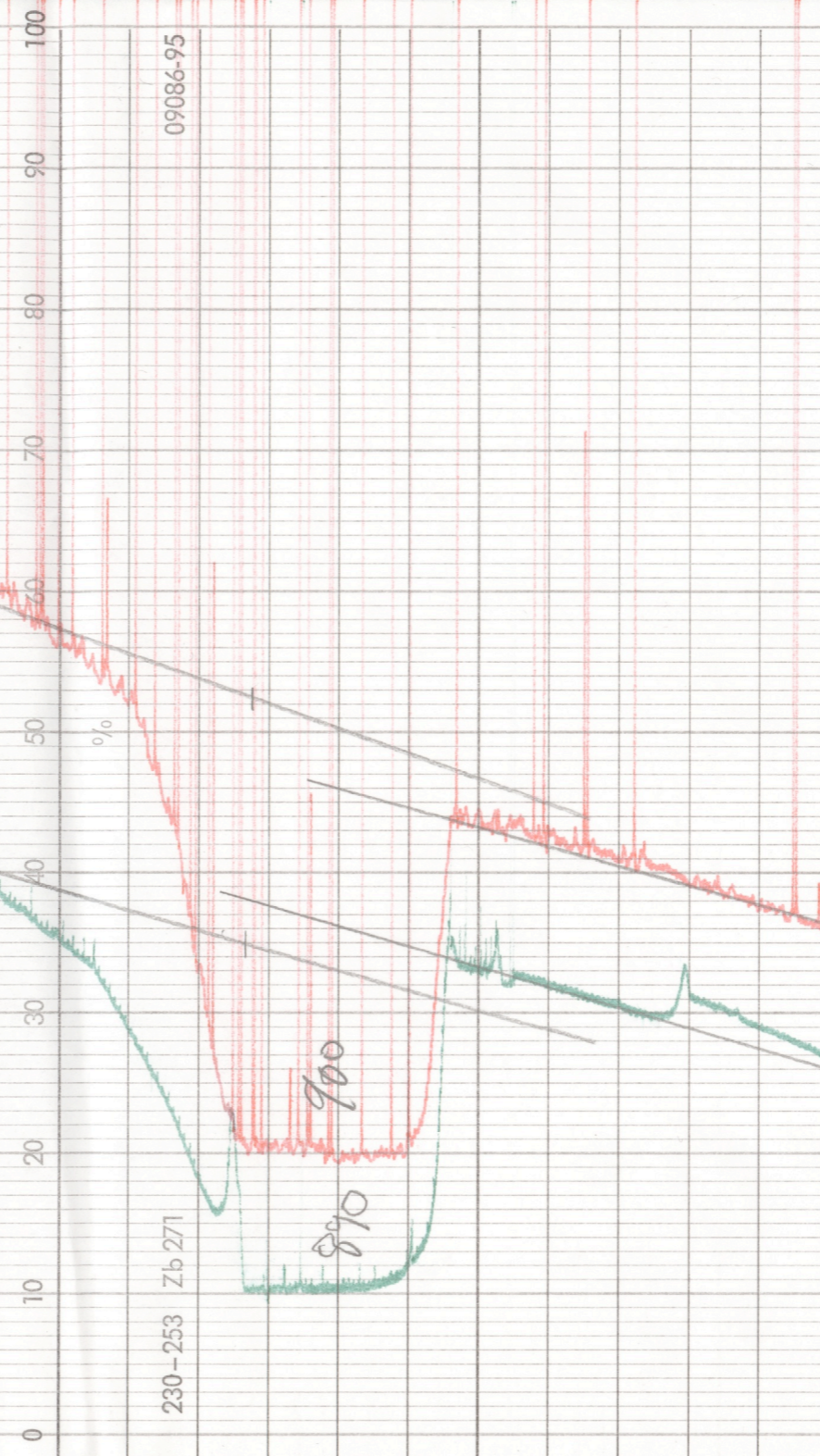
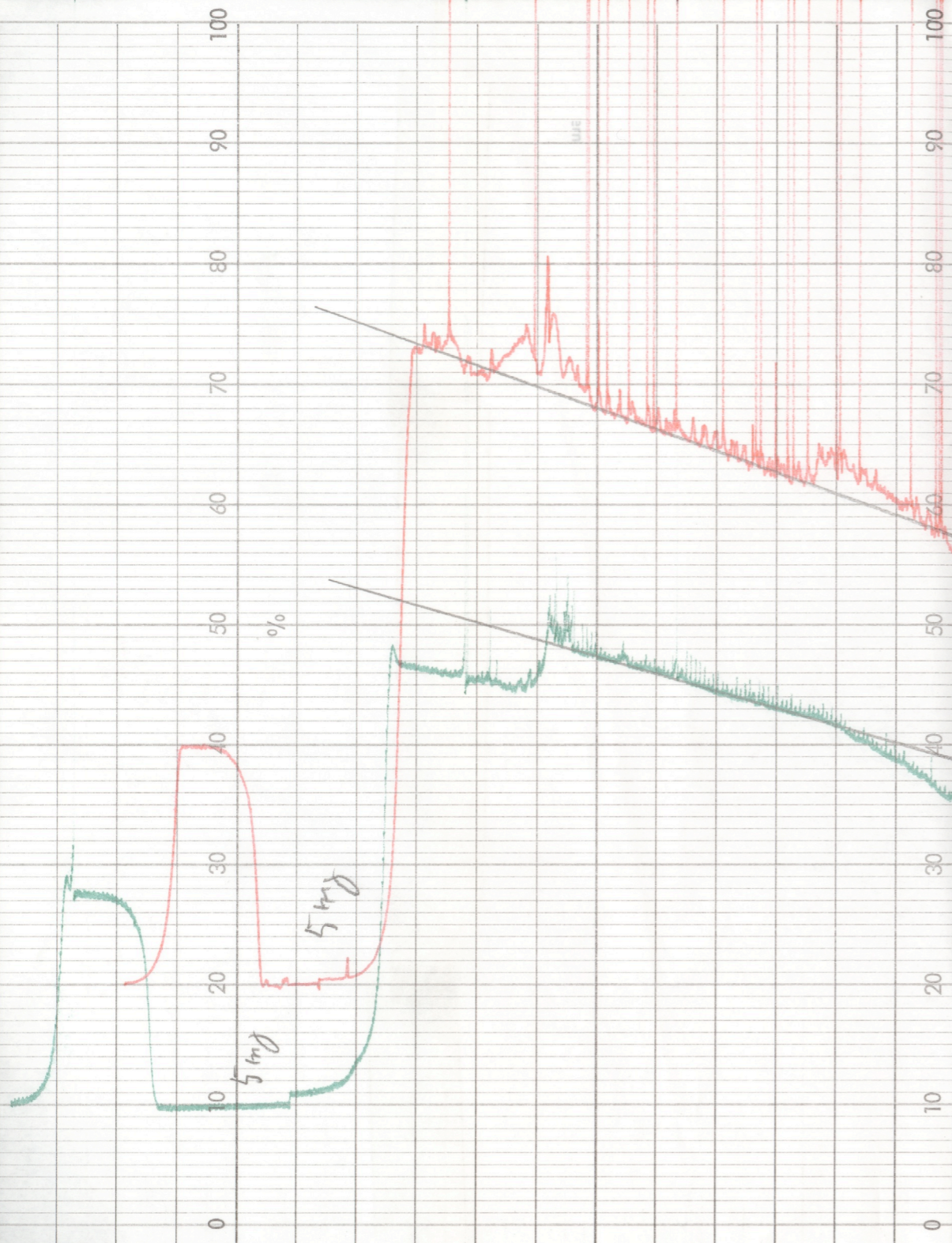


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