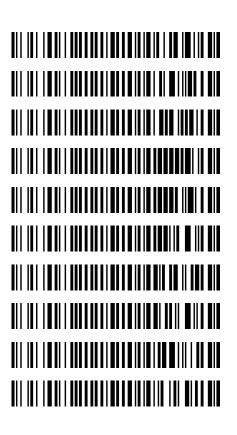
#### **REVIEWED** By Celena Shrum at 2:57 pm, Nov 20, 2024

11/19/2024

#### Worklist: 6975

| LAB CASE   | <u>ITEM</u> | ITEM TYPE | DESCRIPTION                     |
|------------|-------------|-----------|---------------------------------|
| C2024-2125 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2138 | 2           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2178 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2189 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2192 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2193 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2195 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2210 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2229 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |
| C2024-2232 | 1           | BCK       | AM 27 Blood THC Quant by LC-QQQ |





### AM# 27: Quantitation of THC and Metabolites in Blood and Urine by LC-MS/MS

Extraction Date: <u>11/19/24</u> Plate lot#: 240919 Mobile phase A: 0.1% Formic Acid in LCMS Water Blank Blood Lot: 24C52044 Column: UCT Selectra DA 100 x 2.1mm 3um Analyst: <u>Anne Nord</u> Plate Retest Date: 3/19/2025 Mobile phase B: 0.1% Formic acid in Acetonitrile Blank Urine Lot: Blood only run LCMS-QQQ ID: 69679

#### **Pre-Analytic:**

- $\boxtimes$  1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- $\boxtimes$  2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

#### Analytic:

- $\boxtimes$  1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☑ 2. Using a calibrated pipette, pipette 1000µL blood or 1000µL urine in wells of analytical (standards) plate. Pipette ID: K52558G
- □ 3. Urine hydrolysis add **100 ul BG turbo, and 200 ul BG turbo buffer** to the urine samples in wells of the analytical plate.
- $\boxtimes$  4. Add 500µL of 0.1% formic acid in water in the wells of the analytical plate.
- $\boxtimes$  5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Δ 6. Transfer 700-800μL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 750 μL
- Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
   (Load at 85-100 PSI- Selector to the right)
- $\boxtimes$  8. Wait 5 minutes.
- 9. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- $\boxtimes$  10. Wait 5 minutes.
- ☑ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ☑ 12. Add 2.25mL Hexane. (Add in 3 increments of 750uL)
- $\boxtimes$  13. Wait 5 minutes.
- ☑ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ☑ 15. Remove plate containing eluate. Place on SPE Dry 75401 and evaporate to dryness at approx. 35°C.
- ☑ 16. Reconstitute in 100µL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

#### **Post-Analytic**

- $\boxtimes$  1. Create batch and process data.
- $\boxtimes$  2. Make any necessary integration changes, Curve weighting of Linear 1/x with r<sup>2</sup> values  $\ge 0.98$  for each analyte
- RT +/- 3% or 0.100 min, whichever is greater, +/- 20% Accuracy for greater than (+/- 30% for 10ng/ml or less). Ion ratios must be within +/- 20% of the averaged calibrators
- $\boxtimes$  4. Did all QCs pass for each analyte? (if not, describe in comments section)
- $\boxtimes$  5. Enter QCs into control charting.
- Solution 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: C2024-2193-1 did not inject, it was reconstituted and injected 11/19/24 along with a positive blood control.

|   | 1                           | 2                              | 3      | 4 | 5 | 6 |
|---|-----------------------------|--------------------------------|--------|---|---|---|
| а | cal 1                       |                                | 2193-1 |   |   |   |
| b | cal 2                       | Internal control<br>blood high | 2195-1 |   |   |   |
| с | cal 3                       | negative blood                 | 2210-1 |   |   |   |
| d | cal 4                       | 2125-1                         | 2229-1 |   |   |   |
| e | cal 5                       | 2138-2                         | 2232-1 |   |   |   |
| f | cal 6                       | 2178-1                         |        |   |   |   |
| g | cal 7                       | 2189-1                         |        |   |   |   |
| h | Internal control<br>(blood) | 2192-1                         |        |   |   |   |

Plate position 3

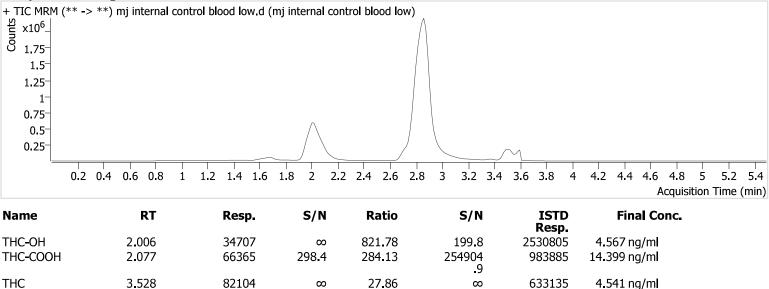
c2024-\_\_\_-

## Batch resultsD:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 27.batch.binCalibration Last Update11/20/2024 11:28:27 AM

| Instrument<br>Type<br>Acq. Method<br>Sample Position<br>Injection Volume<br>Acq. Date-Time<br>Sample Info. | 69679<br>QC<br>thc quant 50 50.m<br>P3-H1<br>10<br>11/19/2024 9:03:19 PM | Data File<br>Sample<br>Operator<br>Comment |
|--|--|--|
|--|--|--|

mj internal control blood low.d mj internal control blood low Anne Nord

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods





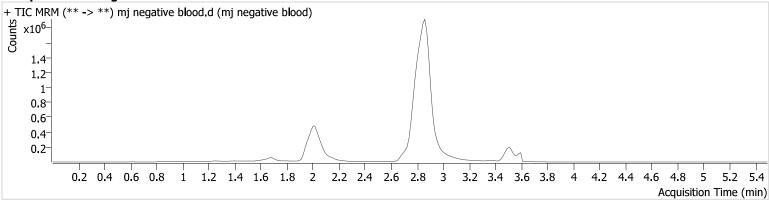
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| Instrument<br>Type<br>Acq. Method<br>Sample Position<br>Injection Volume<br>Acq. Date-Time<br>Sample Info. | 69679<br>Sample<br>thc quant 50 50.m<br>P3-C2<br>10<br>11/19/2024 9:09:53 PM | Data File<br>Sample<br>Operator<br>Comment |
|--|--|--|
|--|--|--|

mj negative blood.d mj negative blood

Anne Nord

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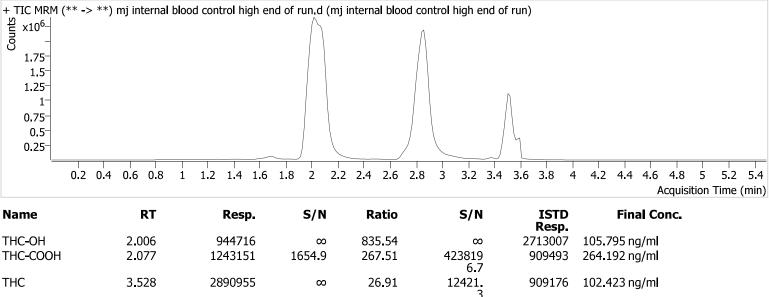


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| Instrument<br>Type<br>Acq. Method<br>Sample Position<br>Injection Volume<br>Acq. Date-Time<br>Sample Info. | 69679<br>QC<br>thc quant 50 50.m<br>P3-B2<br>10<br>11/19/2024 11:35:05 PI | Data File<br>Sample<br>Operator<br>Comment |
|--|---|--|
| Sample Info.   |   |  |

mj internal blood control high end of run.d mj internal blood control high end of run Anne Nord

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## Batch resultsD:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 27.batch.binCalibration Last Update11/20/2024 11:28:27 AM

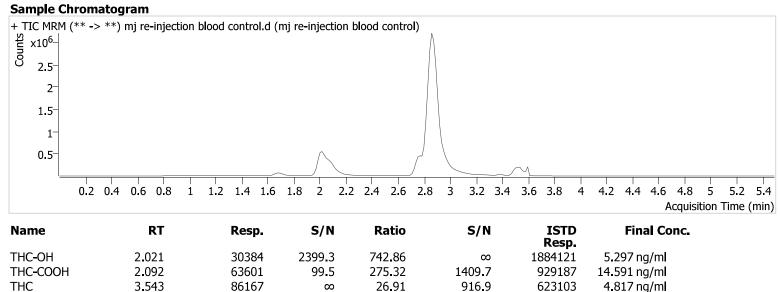
| Instrument       | 69679                     | Data File | mj r  |
|------------------|---------------------------|-----------|-------|
| Туре             | QC                        | Sample    | mj r  |
| Acq. Method      | thc quant 50 50.m         | Operator  | Ann   |
| Sample Position  | P3-H1                     | Comment   | Only  |
| Injection Volume | 10                        |           | inter |
| Acq. Date-Time   | 11/20/2024 11:21:08<br>AM |           | are u |

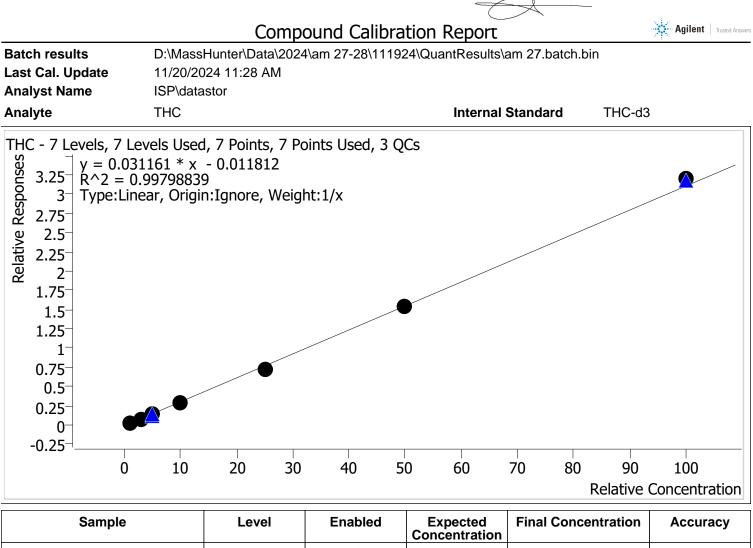
mj re-injection blood control.d mj re-injection blood control Anne Nord

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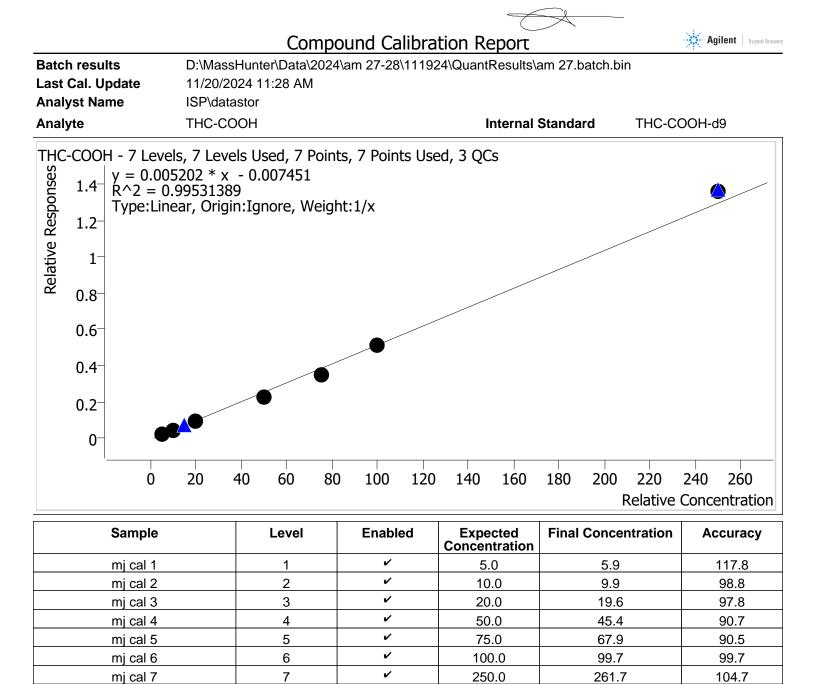
the methods

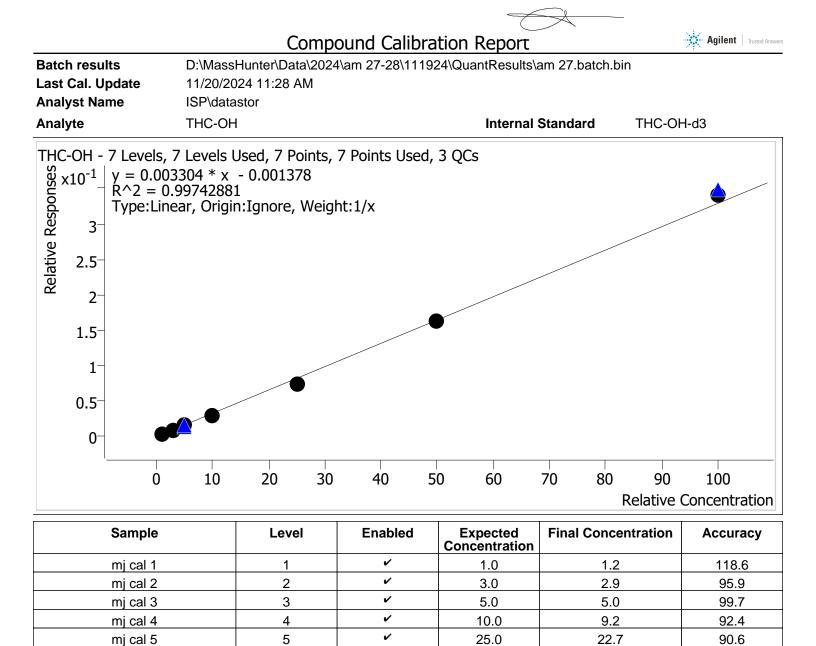
### Sample Info.





| mj cal 1 | 1 | > | 1.0   | 1.2   | 122.1 |
|----------|---|---|-------|-------|-------|
| mj cal 2 | 2 | ~ | 3.0   | 2.9   | 96.9  |
| mj cal 3 | 3 | ~ | 5.0   | 4.6   | 92.4  |
| mj cal 4 | 4 | > | 10.0  | 9.3   | 93.0  |
| mj cal 5 | 5 | ~ | 25.0  | 23.3  | 93.4  |
| mj cal 6 | 6 | ~ | 50.0  | 49.6  | 99.2  |
| mj cal 7 | 7 | > | 100.0 | 103.0 | 103.0 |
|          |   |   |       |       |       |
|          |   |   |       |       |       |





r

r

50.0

100.0

49.7

103.3

99.5

103.3

6

7

mj cal 6

mj cal 7

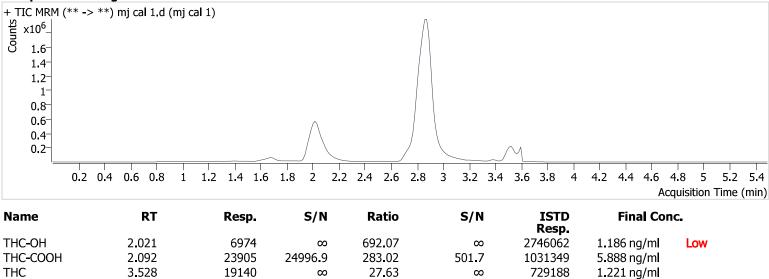


### Batch resultsD:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 27.batch.binCalibration Last Update11/20/2024 11:28:27 AM

mj cal 1.d mj cal 1

Anne Nord

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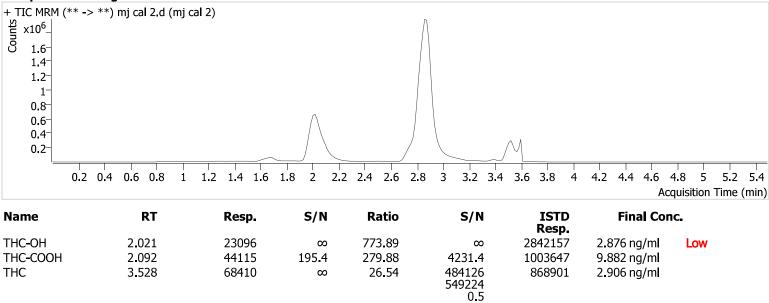
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| Instrument<br>Type<br>Acq. Method<br>Sample Position<br>Injection Volume<br>Acq. Date-Time | 69679<br>Cal<br>thc quant 50 50.m<br>P3-B1<br>10<br>11/19/2024 8:23:43 PM | Data File<br>Sample<br>Operator<br>Comment |
|--|---|--|
| Sample Info.   |   |  |

mj cal 2.d mj cal 2

Anne Nord

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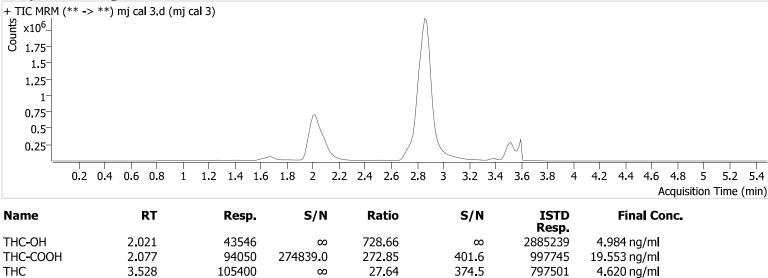


### Batch resultsD:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 27.batch.binCalibration Last Update11/20/2024 11:28:27 AM

| Instrument69679TypeCalAcq. Methodthc quant 50Sample PositionP3-C1Injection Volume10Acq. Date-Time11/19/2024Sample Info.X | Comment |
|--|---------|
|--|---------|

mj cal 3.d mj cal 3 Anne Nord

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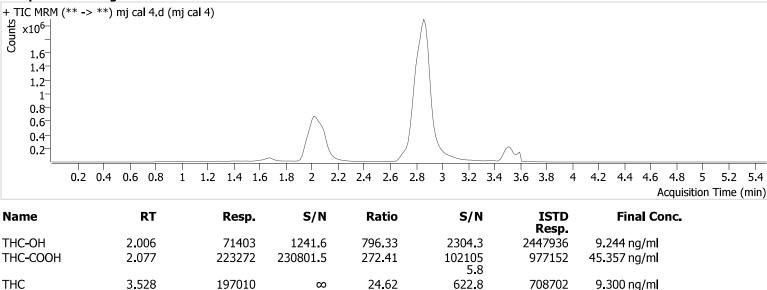
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| Instrument<br>Type<br>Acq. Method<br>Sample Position<br>Injection Volume<br>Acq. Date-Time<br>Sample Info | 69679<br>Cal<br>thc quant 50 50.m<br>P3-D1<br>10<br>11/19/2024 8:36:56 PM | Data File<br>Sample<br>Operator<br>Comment |
|---|---|--|
| Sample Info.  |   |  |

mj cal 4.d mj cal 4

Anne Nord

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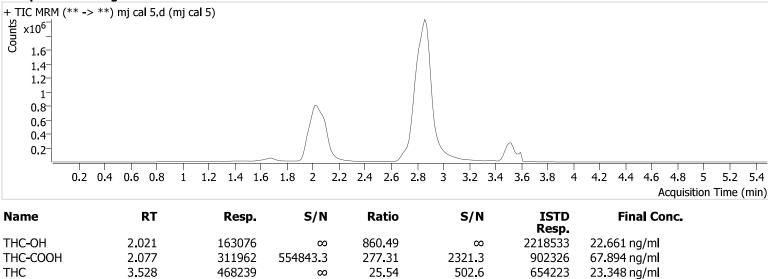


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| Injection Volume         10           Acq. Date-Time         11/19/2024 8:43:32 PM           Sample Info.         11/19/2024 8:43:32 PM |
|---|
|---|

mj cal 5.d mj cal 5 Anne Nord

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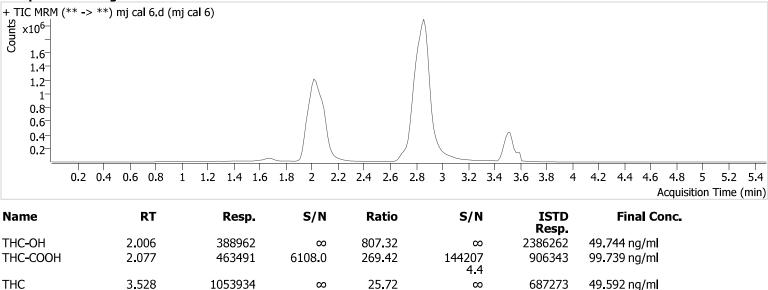


### Batch resultsD:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 27.batch.binCalibration Last Update11/20/2024 11:28:27 AM

mj cal 6.d mj cal 6

Anne Nord

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## Batch results D:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 27.batch.bin

Calibration Last Update 11/20/2024 11:28:27 AM

| Instrument<br>Type<br>Acq. Method<br>Sample Position<br>Injection Volume | 69679<br>Cal<br>thc quant 50 50.m<br>P3-G1<br>10 | Data File<br>Sample<br>Operator<br>Comment |
|--|--|--|
| Acq. Date-Time<br>Sample Info.   | 10<br>11/19/2024 8:56:45 PM                      |  |

mj cal 7.d mj cal 7

Anne Nord

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