

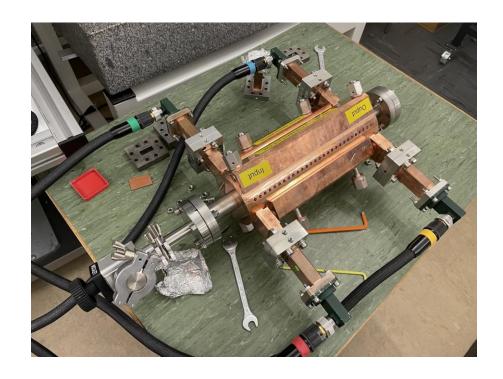


# TD26 R11 CC Ciemat RF measurements

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### TD26 R11 CC Ciemat

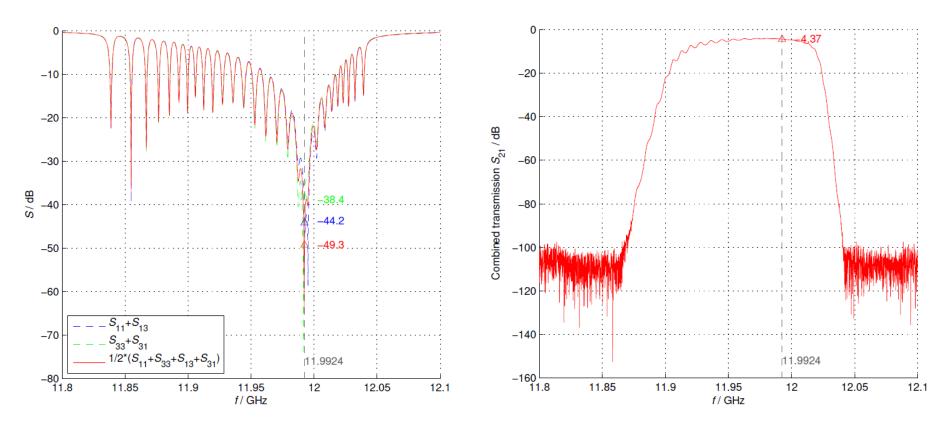


(\*) Measured by M. Boronat; cleaning of waveguides: TBD

- 1. S-matrix measurements of TD26 with 4-port VNA
- 2. Mounting of manifolds (\*)
- 3. S-matrix measurements with 2-port VNA



## TD26 R11 CC Ciemat



Meas. reported by Rolf, Hikmet after tuning [25 Oct, 2021]

- Structure in N2
- Temperature 20.4°C

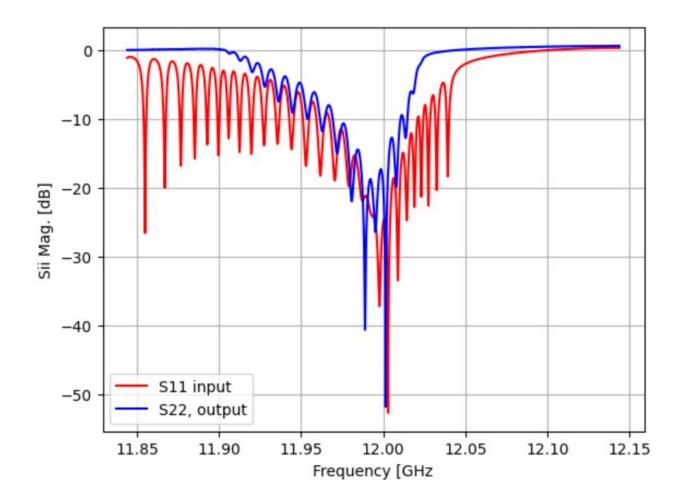
# Measurement Setup – VNA calibration



#### For both VNAs:

- Central freq: 11.994 GHz
- Span 300 MHz
- No. of points: 20001
- IF Bandwidth: 1 kHz
- Full 4-ports/2-ports calibration
- Configuration of 2xbalanced ports (logical ports) in ZVA24

# S-matrix TD26



Meas.	F0 [GHz]	IL [dB]
Air, 18.3°C	12.0	4.60
Report	11.9924	4.36

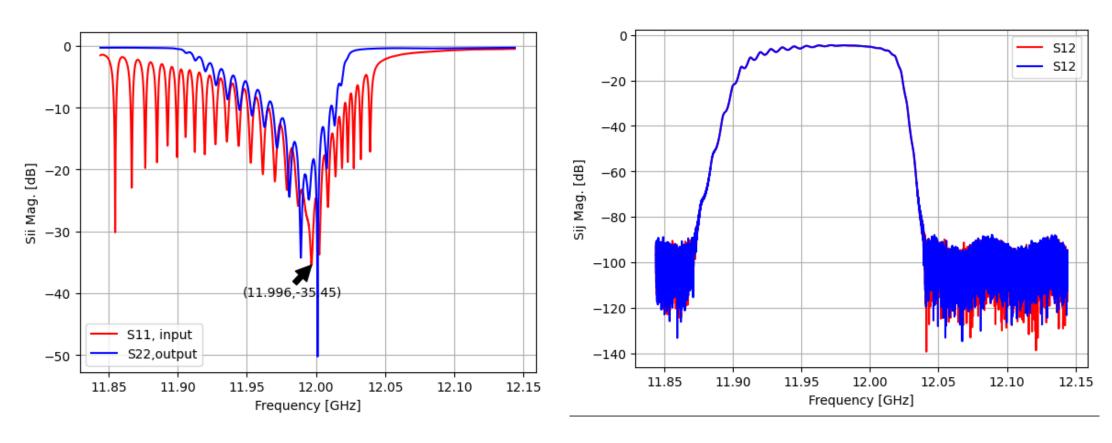
# S-matrix TD26+manifolds



Temperature 19.5 °C



## S-matrix TD26+manifolds



Air/vacuum correction  $f \approx 11.9933$  GHz Insertion Loss@f0 = -5.03 dB

## S-matrix TD26+manifolds

