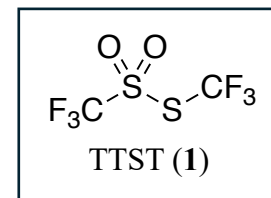


2nd distillation
¹⁹F-qNMR (2nd run)

-36.606
 -36.619
 -36.632
 -36.645

-63.580

-77.259
 -77.273
 -77.285
 -77.299



$$\frac{\text{weight of standard} \times M.W. \text{ of TTST} \times \text{molar ratio} \times \text{purity of standard}}{\text{weight of TTST (1)} \times M.W. \text{ of standard}} \times 100$$

$$\frac{55.8 \text{ mg} \times 234.13 \text{ g/mol} \times 0.54 \times 0.98}{40.3 \text{ mg} \times 180.55 \text{ g/mol}} \times 100 = 95.0\%$$

TTST (1) = 40.3 mg

4-chlorobenzotrifluoride = 55.8 mg

95.0% pure

