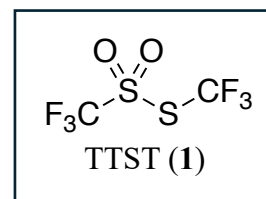
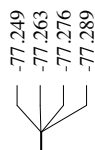
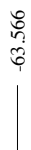
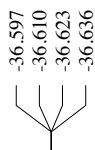


1st distillation

^{19}F -qNMR (2nd run)



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

$$\frac{58.8 \text{ mg} \times 234.13 \text{ g/mol} \times 0.50 \times 0.98}{43.2 \text{ mg} \times 180.55 \text{ g/mol}} \times 100 = 86.4\%$$

TTST (1) = 43.2 mg

4-chlorobenzotrifluoride = 58.8 mg

86.4% pure

