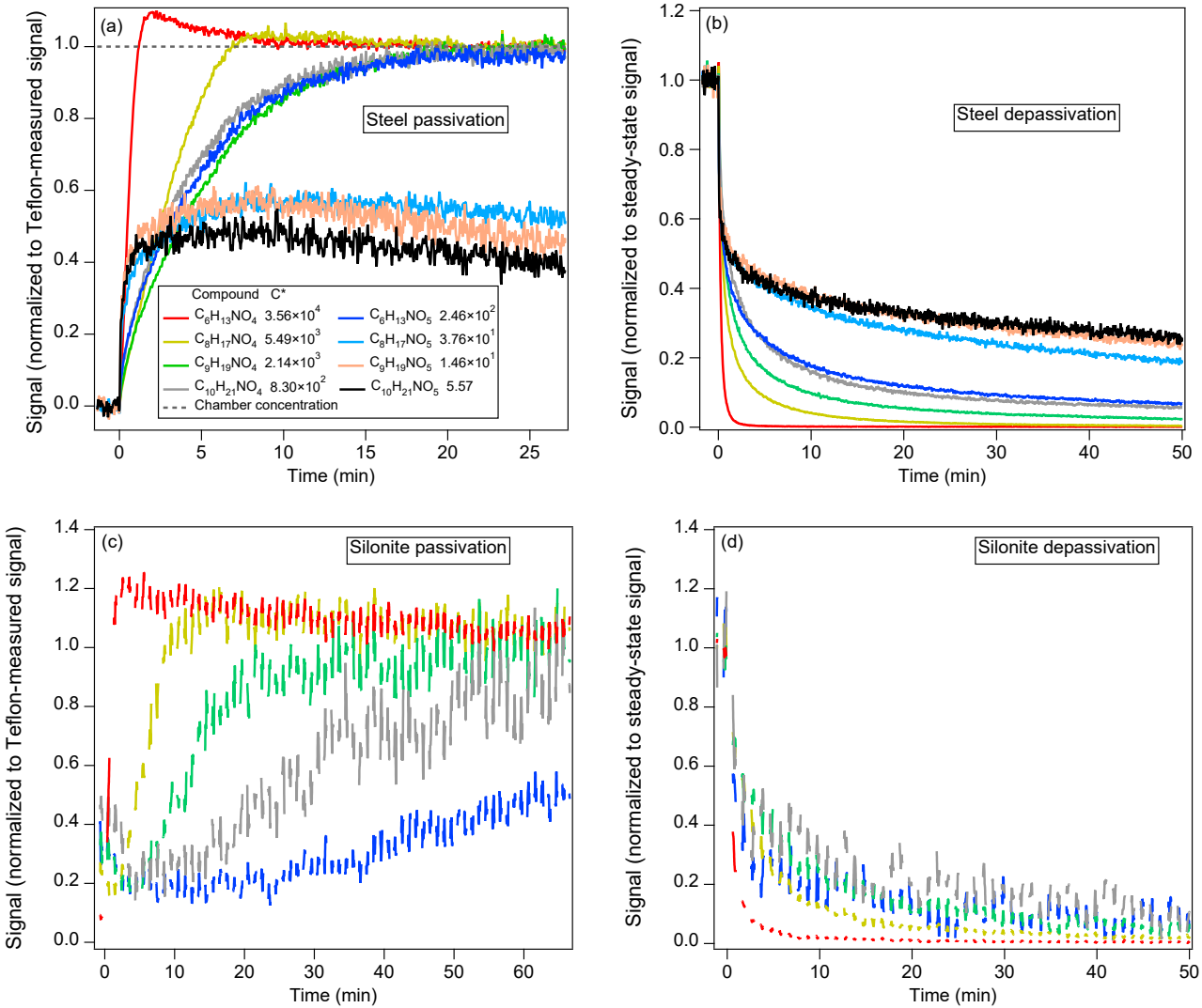
(a)
Steel passivation
Signal (normalized to Teflon-measured signal)
Time (min)
Compound C*
$C_6H_{13}NO_4$ 3.56×10^4
$C_8H_{17}NO_4$ 5.49×10^3
$C_9H_{19}NO_4$ 2.14×10^3
$C_{10}H_{21}NO_4$ 8.30×10^2
$C_6H_{13}NO_5$ 2.46×10^2
$C_8H_{17}NO_5$ 3.76×10^1
$C_9H_{19}NO_5$ 1.46×10^1
$C_{10}H_{21}NO_5$ 5.57
Chamber concentration
(b)
Steel depassivation
Signal (normalized to steady-state signal)
Time (min)
(c)
Silonite passivation
Signal (normalized to Teflon-measured signal)
Time (min)
(d)
Silonite depassivation
Signal (normalized to steady-state signal)
Time (min)