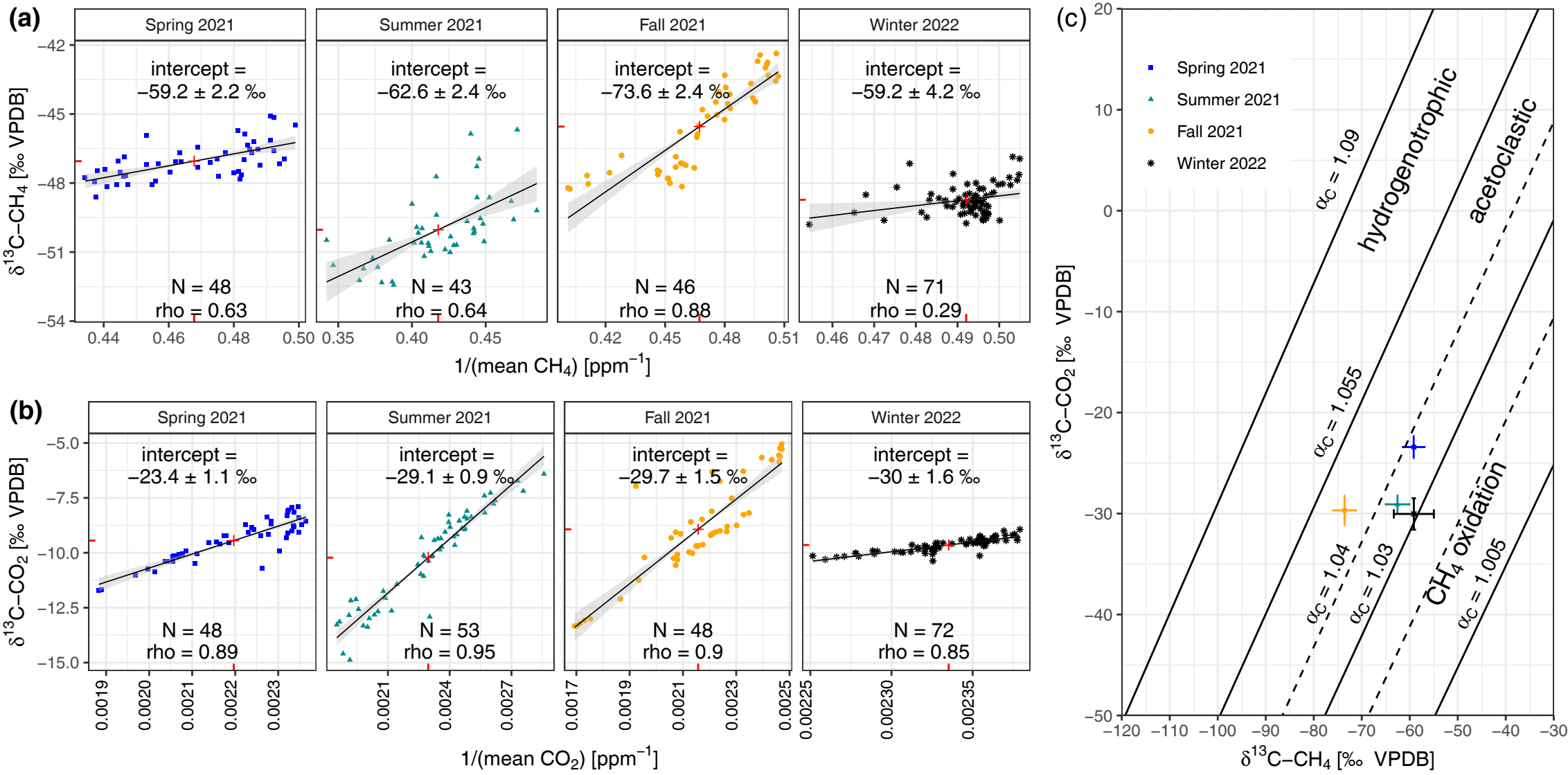
(a)
Spring 2021
Summer 2021
Fall 2021
Winter 2022
intercept = −59.2 ± 2.2 ‰
intercept = −62.6 ± 2.4 ‰
intercept = −73.6 ± 2.4 ‰
intercept = −59.2 ± 4.2 ‰
N = 48
rho = 0.63
N = 43
rho = 0.64
N = 46
rho = 0.88
N = 71
rho = 0.29
δ13C–CH4 [‰ VPDB]
1/(mean CH4) [ppm−1]
(b)
intercept = −23.4 ± 1.1 ‰
intercept = −29.1 ± 0.9 ‰
intercept = −29.7 ± 1.5 ‰
intercept = −30 ± 1.6 ‰
N = 48
rho = 0.89
N = 53
rho = 0.95
N = 48
rho = 0.9
N = 72
rho = 0.85
δ13C–CO2 [‰ VPDB]
1/(mean CO2) [ppm−1]
(c)
Spring 2021
Summer 2021
Fall 2021
Winter 2022
αC = 1.09
αC = 1.055
αC = 1.04
αC = 1.03
αC = 1.005
hydrogenotrophic
acetoclastic
CH4 oxidation
δ13C–CO2 [‰ VPDB]
δ13C–CH4 [‰ VPDB]