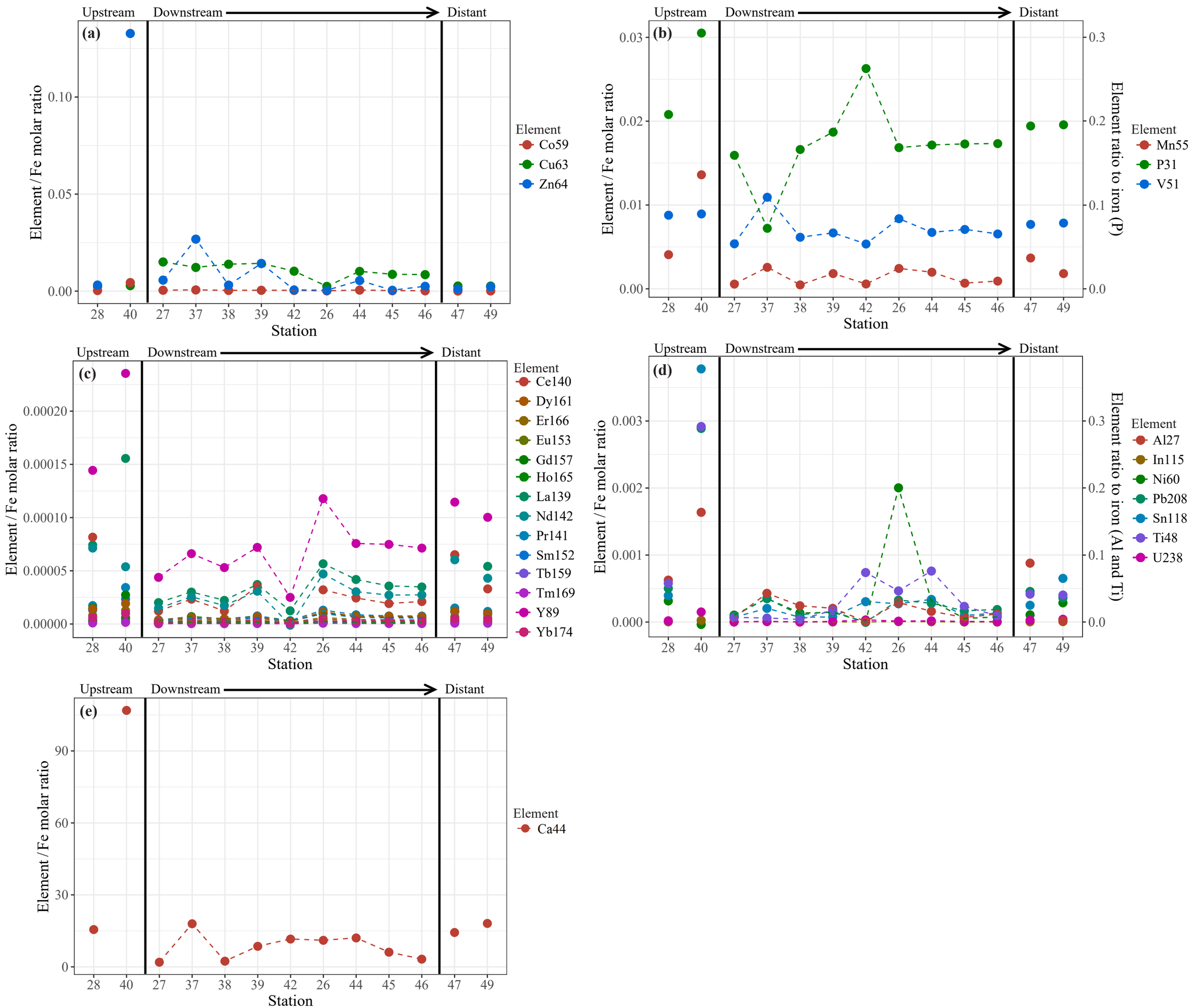
(a)
Upstream
Downstream
Distant
Element / Fe molar ratio
0.10
0.05
0.00
28 40 27 37 38 39 42 26 44 45 46 47 49
Station
Element
Co59
Cu63
Zn64
(b)
Element / Fe molar ratio
0.03
0.02
0.01
0.00
Element ratio to iron (P)
0.3
0.2
0.1
0.0
Mn55
P31
V51
(c)
Element / Fe molar ratio
0.00020
0.00015
0.00010
0.00005
0.00000
Ce140
Dy161
Er166
Eu153
Gd157
Ho165
La139
Nd142
Pr141
Sm152
Tb159
Tm169
Y89
Yb174
(d)
Element / Fe molar ratio
0.003
0.002
0.001
0.000
Element ratio to iron (Al and Ti)
Al27
In115
Ni60
Pb208
Sn118
Ti48
U238
(e)
Element / Fe molar ratio
90
60
30
0
Ca44