Supporting Information

Figure S1

Normalized FAIMS spectra for the K27(Me)$_2$ and K36(Me)$_2$ variants of H3 tail (color-coded on the top) with z = 4 - 6, measured using He/N_2 with 0%, 20%, 30%, or 40% He (v/v), as labeled. Peaks for different conformers are marked by letters.

Figure S2

Same as Fig. S1, except measured using H_2/N_2 with 50%, 60%, or 70% H_2.

Figure S3

Normalized FAIMS spectra for the K4Me and K9Me variants of H3 tail (color-coded on the top) with z = 5 and 6, measured using He/N_2 with 0%, 20%, 30%, 40%, or 47% He (v/v), as labeled. Peaks for different conformers are marked by letters.

Figure S4

Same as Fig. S3, except measured using H_2/N_2 with 50%, 60%, or 70% H_2.

Figure S5

FAIMS spectra for the K4Me/K9Me mixture, measured using He/N_2 with 20 - 47% He, as labeled. Segments with low signal are scaled as marked. Vertically scaled spectra for the components are overlaid.

Figure S1

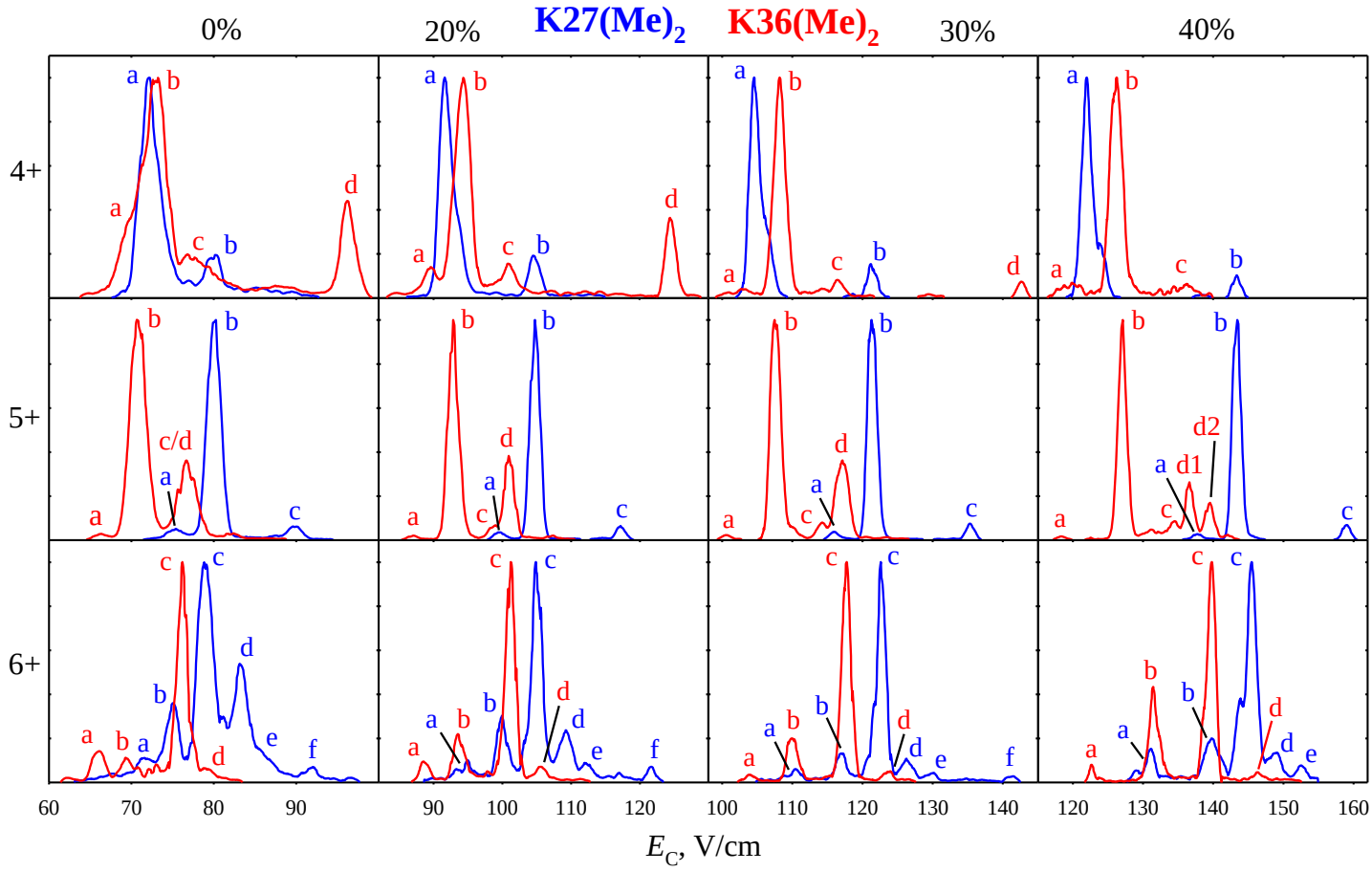

0%
20%
K27(Me)2
K36(Me)2
30%
40%
4+
5+
6+
60
70
80
90
100
110
120
130
140
150
160
EC, V/cm

Figure S2

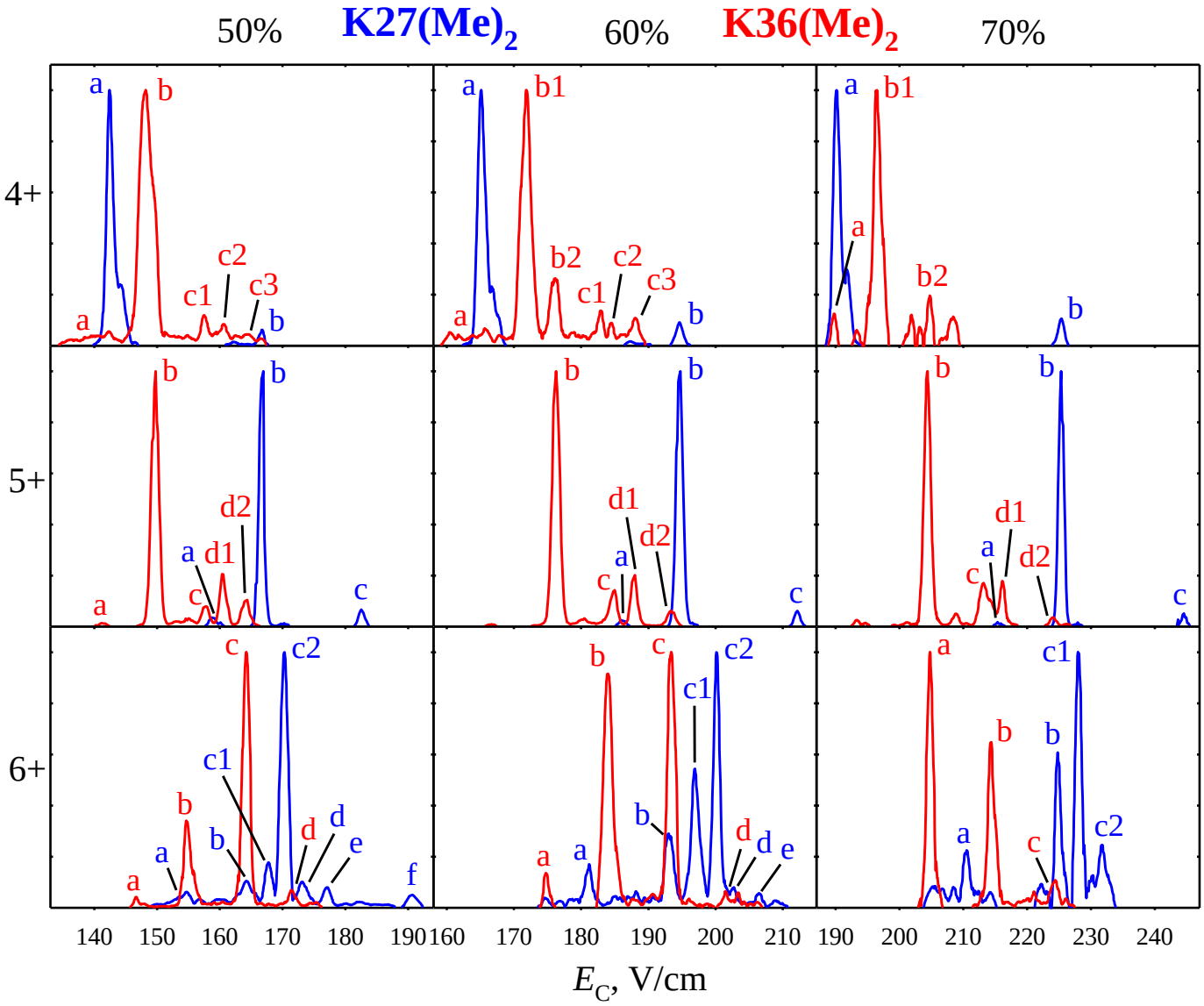

50%
K27(Me)2
60%
K36(Me)2
70%
4+
5+
6+
a
b
c1
c2
c3
b1
b2
d1
d2
c
d
e
f
140
150
160
170
180
190
200
210
220
230
240
EC, V/cm

Figure S3

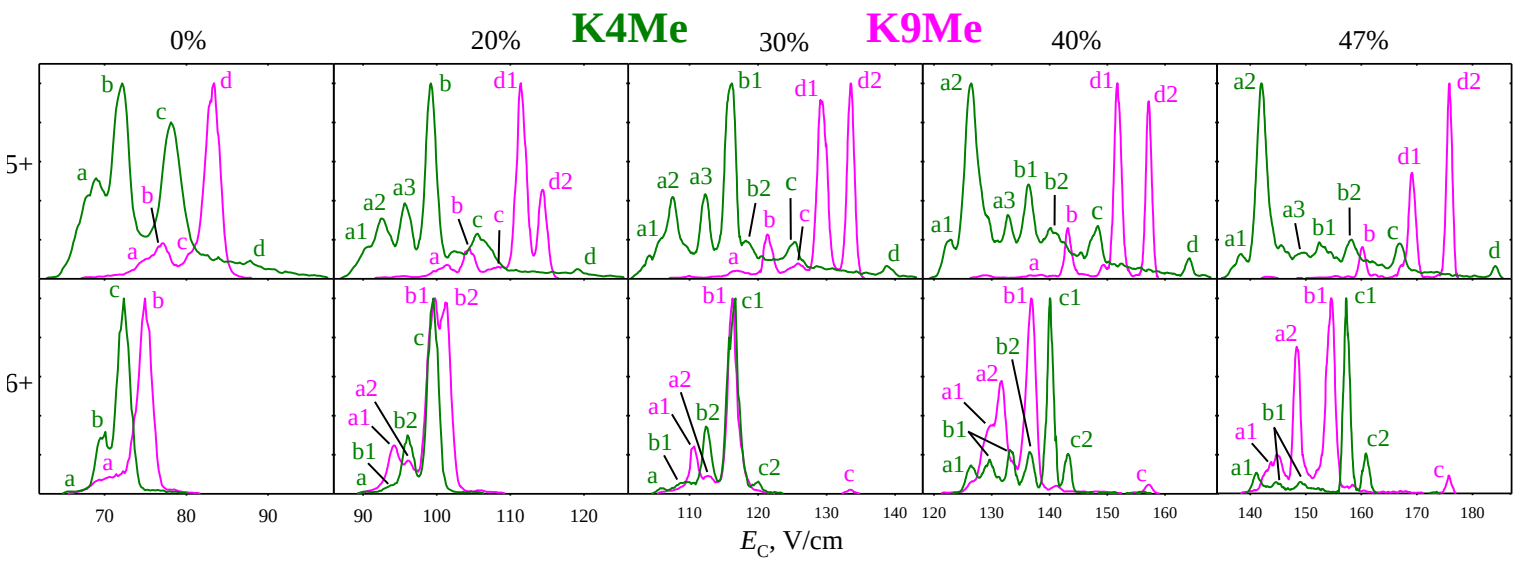


Figure S4

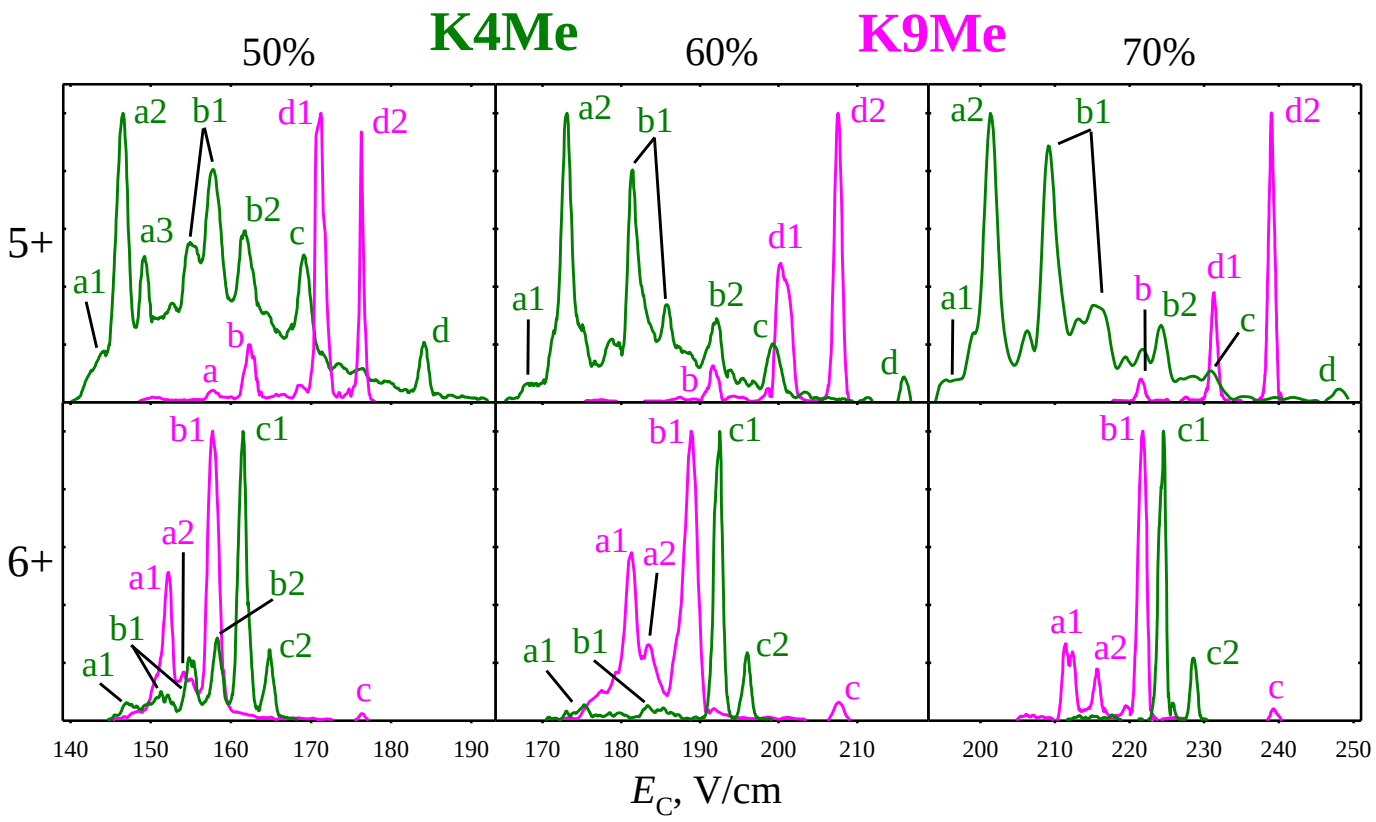
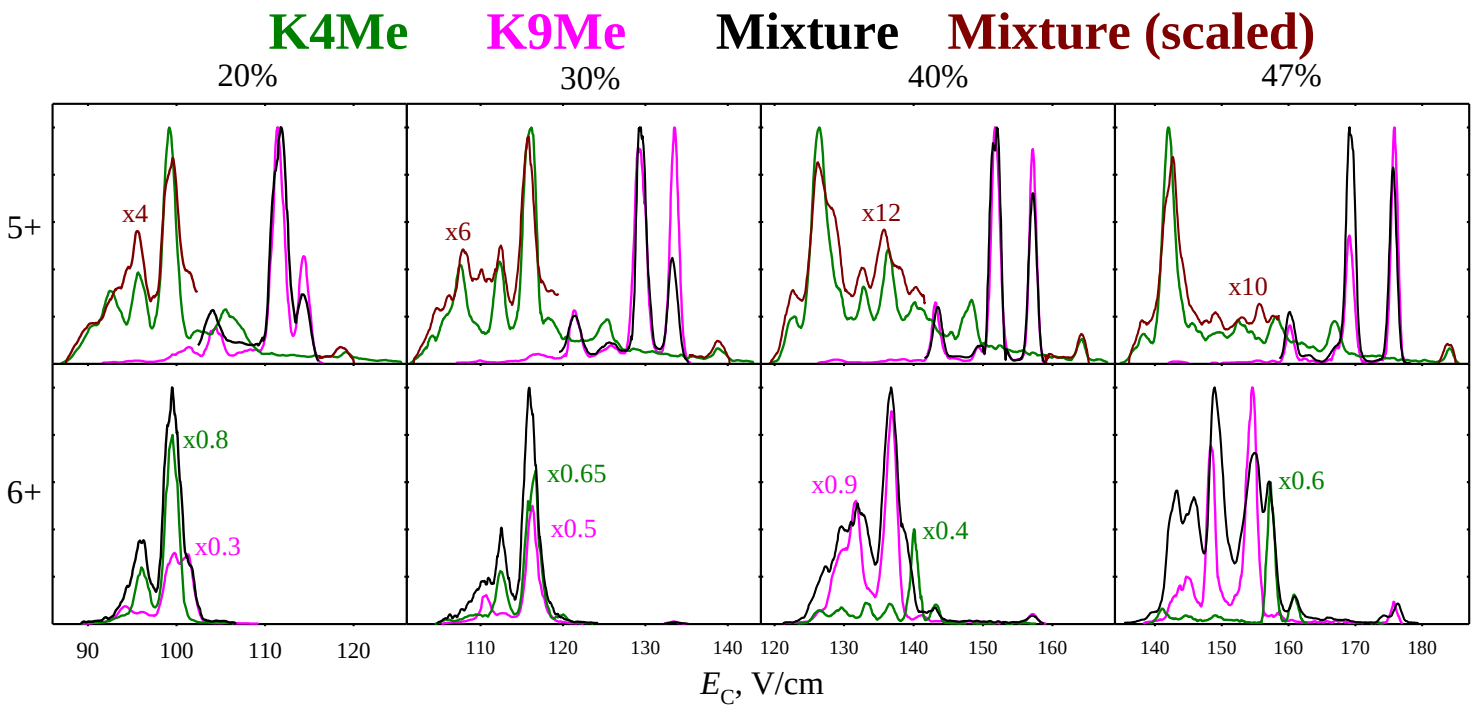

K4Me
K9Me
50%
60%
70%
5+
6+
a1
a2
a3
b1
b2
c
d1
d2
a
b
d
c1
c2
140
150
160
170
180
190
200
210
220
230
240
250
E_C, V/cm

Figure S5


K4Me
K9Me
Mixture
Mixture (scaled)
20%
30%
40%
47%
5+
6+
x4
x6
x12
x10
x0.8
x0.3
x0.65
x0.5
x0.9
x0.4
x0.6
90
100
110
120
110
120
130
140
120
130
140
150
160
140
150
160
170
180
E_C, V/cm