SUPPLEMENTARY INFORMATION:

**Supplementary Figure 1.** The dynamic retention profile in the mouth for m/z=30.

**Supplementary Figure 2.** The dynamic retention profile in the mouth for m/z=40.
Supplementary Figure 3. The dynamic retention profile in the mouth for m/z=42.

Supplementary Figure 4. The dynamic retention profile in the mouth for m/z=44.

Supplementary Figure 5. The dynamic retention profile in the mouth for m/z=48.
Supplementary Figure 6. The dynamic retention profile in the mouth for m/z=52.

Supplementary Figure 7. The dynamic retention profile in the mouth for m/z=54.
**Supplementary Figure 8.** The dynamic retention profile in the mouth for m/z=56.

**Supplementary Figure 9.** The dynamic retention profile in the mouth for m/z=57.

**Supplementary Figure 10.** The dynamic retention profile in the mouth for m/z=59.
Supplementary Figure 11. The dynamic retention profile in the mouth for m/z=67.

Supplementary Figure 12. The dynamic retention profile in the mouth for m/z=68.
**Supplementary Figure 13.** The dynamic retention profile in the mouth for m/z=69.

**Supplementary Figure 14.** The dynamic retention profile in the mouth for m/z=70.

**Supplementary Figure 15.** The dynamic retention profile in the mouth for m/z=72.
Supplementary Figure 16. The dynamic retention profile in the mouth for m/z=78.

Supplementary Figure 17. The dynamic retention profile in the mouth for m/z=80.
Supplementary Figure 18. The dynamic retention profile in the mouth for m/z=82.

Supplementary Figure 19. The dynamic retention profile in the mouth for m/z=84.

Supplementary Figure 20. The dynamic retention profile in the mouth for m/z=86.
Supplementary Figure 21. The dynamic retention profile in the mouth for m/z=106.