

Table S1. Relative area of volatile compounds in SJ and DSJ

| <b>Volatile compounds</b>                       | <b>SJ</b>      | <b>DSJ</b>   |
|---|----------------|--------------|
| Allyl isothiocyanate                            | 10.56 ± 0.44a  | 3.88 ± 0.08b |
| Ethanol   | 15.84 ± 0.37   | n.d.         |
| Acetic acid                                     | 22.97 ± 0.56 a | 17.7 ± 0.27b |
| Benzoic acid                                    | n.d.*          | 60.6 ± 2.14  |
| Not identified                                  | n.d.           | 3.66 ± 0.11  |
| Carvone   | 50.63 ± 0.27   | n.d.         |
| Dimethyl sulfide                                | n.d.           | 10.58 ± 0.33 |
| Disulfide dimethyl                              | n.d.           | 1.75 ± 0.02  |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (S) | 1.83 ± 0.06    | n.d.         |

\*n.d. – not detectable

Table S2. Relative area of volatile compounds in Bread and Meat samples

| <b>Volatile compounds</b>                        | <b>Bread C</b> | <b>Bread DSJ</b> | <b>Meat C</b> | <b>Meat DSJ</b> |
|--|----------------|------------------|---------------|-----------------|
| Hexanal  | 0.19 ± 0.01c   | 0.09 ± 0.00d     | 28.21 ± 0.98a | 12.93 ± 0.27b   |
| 3-furaldehyde                                    | 2.83 ± 0.07d   | 5.16 ± 0.16c     | 31.93 ± 1.22a | 10.2 ± 0.38b    |
| Benzaldehyde                                     | 29.15 ± 0.64b  | 33.6 ± 1.42a     | 14.61 ± 0.06d | 19.14 ± 0.10c   |
| 2-cyclohexen-1-one, 2methyl-5-(2-methyloxiranyl) | 0.6 ± 0.02b    | 11.49 ± 0.34a    | n.d.          | n.d.            |
| Benzyl alcohol                                   | 27.02 ± 1.30a  | 20.07 ± 0.74b    | 12.73 ± 0.38d | 19.63 ± 0.22c   |
| Phenylethyl alcohol                              | 24.13 ± 0.50a  | 6.39 ± 0.10b     | n.d.          | n.d.            |
| n-decanoic acid                                  | 6.65 ± 0.12b   | 6.87 ± 0.10b     | 5.43 ± 0.23c  | 14.25 ± 0.21a   |
| Decyltrifluoroacetate                            | 4.51 ± 0.18b   | 9.55 ± 0.11a     | n.d.          | n.d.            |
| Undecanoic acid                                  | 4.92 ± 0.14c   | 6.79 ± 0.09b     | 3.22 ± 0.06d  | 7.81 ± 0.31a    |

\*n.d. – not detectable