

Table S1 Aroma composition and content of different cultivars of *Pyrus ussuriensis* Maxim

No.	Volatile compounds	¹ R.T. (s)	² RI	Anli (ng/g)	Dongmili (ng/g)	Huagai (ng/g)	Jianbali (ng/g)	Jingbaili (ng/g)	Jinxiangshui (ng/g)	Nanguoli (ng/g)
Esters (102)										
1	Hexyl acetate	687, 1.280	1014.7	476.81±102.83 ^a	120.98±16.47 ^b	100.87±3.50 ^{bc}	³ 37.25±6.57 ^{cd}	46.26±1.92 ^{cd}	26.02±3.92 ^d	3.05±0.56 ^d
2	Ethyl acetate	132, 0.760	605.04	180.96±5.45 ^b	148.09±29.27 ^b	40.06±5.56 ^{cd}	87.35±13.05 ^c	0.47±0.12 ^d	525.29±75.51	17.93±2.79 ^d
									a	
3	Isoamyl acetate	435, 1.140	875.2	⁴ -	-	-	59.54±6.51 ^a	-	-	-
4	Isobutyl acetate	276, 0.970	772.01	-	36.25±7.26 ^a	8.80±1.23 ^c	21.18±4.21 ^b	4.35±0.90 ^{cd}	8.82±1.65 ^c	5.05±0.73 ^{cd}
5	Butyl acetate	333, 1.100	814.49	147.93±17.93 ^c	314.82±43.60 ^b	90.97±4.56 ^{cd}	84.99±7.98 ^{cd}	56.48±4.17 ^d	787.42±94.84	36.29±7.97 ^d
									a	
6	2-Methylbutyl acetate	441, 1.120	878.76	-	15.96±1.43 ^b	13.13±1.87 ^c	36.19±2.97 ^a	8.47±0.40 ^d	-	8.95±1.05 ^d
7	Methyl 2-methyl-2-butenolate	417, 1.290	864.58	-	15.38±1.34 ^a	-	-	-	-	-
8	Ethyl caproate	663, 1.290	1001.8	159.73±1.36 ^b	22.39±3.81 ^d	1.14±0.76 ^d	110.55±0.25 ^c	1.72±0.48 ^d	264.42±41.98	3.43±0.26 ^d
									a	
9	Methyl caproate	522, 1.250	924.82	153.20±27.75 ^b	66.50±7.17 ^c	23.91±0.71 ^{de}	23.29±7.10 ^{de}	60.00±14.80 ^{cd}	246.00±48.82	14.26±0.27 ^e
									a	
10	Ethyl (2Z)-but-2-enoate	381, 1.280	843.15	112.42±8.84 ^a	117.43±20.77 ^a	2.79±1.11 ^c	24.26±1.75 ^b	-	15.19±1.88 ^{bc}	13.67±3.18 ^{bc}
11	(Z)-hex-2-enyl acetate	693, 1.360	1018	12.42±0.73 ^c	36.21±4.85 ^b	107.80±11.87 ^a	15.35±2.25 ^c	-	-	-
12	Methyl acetate	102, 0.620	500.37	115.74±8.84 ^b	57.67±5.47 ^{cd}	25.52±4.50 ^d	25.92±1.95 ^d	56.73±3.85 ^{cd}	273.74±57.42	82.96±12.89 ^{bc}

a										
13	Ethyl butyrate	312, 1.110	802	85.23±2.20 ^b	95.60±13.35 ^b	2.07±0.73 ^d	43.20±8.88 ^c	0.22±0.03 ^d	161.26±42.65	11.09±1.59 ^d
a										
14	Methyl butyrate	213, 0.930	718.17	53.72±7.82 ^b	48.71±12.50 ^b	16.12±2.37 ^c	8.88±0.42 ^c	12.82±1.98 ^c	122.34±2.65 ^a	42.72±4.88 ^b
15	Ethyl caprylate	1020, 1.270	1198.5	23.05±0.57 ^c	2.44±0.27 ^d	0.24±0.04 ^e	33.54±2.32 ^b	0.42±0.07 ^e	2.35±0.34 ^d	43.40±0.41 ^a
16	Propyl acetate	204, 0.890	710.45	24.84±2.37 ^c	73.01±11.45 ^a	5.97±0.62 ^d	66.15±5.59 ^a	0.52±0.07 ^d	33.24±1.55 ^b	-
17	Ethyl propionate	201, 0.890	707.89	18.92±2.06 ^b	5.82±0.68 ^d	-	4.18±0.16 ^e	-	9.66±0.80 ^c	32.07±0.26 ^a
18	Methyl 2-ethylacrylate	417, 1.260	864.56	-	-	-	-	3.16±0.32 ^a	-	-
19	Ethyl 2-methyl butyrate	390, 1.070	848.38	19.38±0.64 ^c	27.06±2.00 ^b	0.05±0.03 ^e	55.81±3.47 ^a	0.04±0.00 ^e	6.93±1.36 ^d	60.64±6.06 ^a
20	Hexyl 2-Methyl butyrate	1086, 1.210	1237.6	-	-	0.01±0.00 ^d	1.28±0.13 ^a	0.05±0.00 ^d	0.60±0.20 ^b	0.23±0.01 ^c
21	Hex-2-en-1-ol acetate	693,1.370	1018	-	-	-	-	-	49.26±3.37 ^a	30.12±1.62 ^b
22	Ethyl 2-hexenoate	744, 1.420	1045.4	22.50±0.44 ^a	2.97±0.61 ^d	0.28±0.12 ^e	14.06±2.84 ^b	0.24±0.02 ^e	0.71±0.07 ^{de}	10.73±1.83 ^c
23	Methyl crotonate	261, 1.120	759.33	13.99±1.20 ^b	47.37±5.80 ^a	43.16±5.07 ^a	12.03±1.11 ^{bc}	9.41±0.64 ^{bc}	7.31±0.60 ^{cd}	2.81±0.15 ^d
24	Ethyl crotonate	381, 1.250	843.14	-	-	-	-	0.27±0.04 ^a	-	-
25	Ethyl (<i>E</i>)-hex-3-enoate	681, 1.330	1011.5	11.28±0.75 ^a	1.59±0.38 ^d	0.10±0.00 ^e	2.74±0.55 ^c	-	5.29±0.44 ^b	3.01±0.43 ^c
26	Ethyl (<i>E</i>)-2-octenoate	1101, 1.410	1246.7	9.02±1.47 ^b	-	-	7.23±0.22 ^b	-	0.76±0.03 ^c	15.77±3.37 ^a
27	Methyl octanoate	891, 1.280	1125.6	13.74±2.80 ^c	16.13±1.81 ^c	7.45±0.35 ^d	6.57±0.47 ^d	24.64±1.24 ^b	3.14±0.33 ^d	32.96±0.16 ^a
28	Methyl isobutyrate	177, 0.810	676.47	-	-	-	-	0.54±0.07 ^a	-	-
29	Ethyl isobutyrate	255, 0.920	754.03	3.46±0.27 ^c	7.55±1.23 ^b	-	16.95±0.56 ^a	-	1.85±0.15 ^d	3.99±0.74 ^c
30	(<i>E</i>)-2-hexenoic acid,	597, 1.370	965.86	4.50±0.79 ^a	1.95±0.10 ^c	3.00±0.30 ^b	3.12±0.17 ^b	1.28±0.24 ^d	0.92±0.06 ^d	1.32±0.08 ^d

	methyl ester									
31	Octyl acetate	1044, 1.260	1212.7	3.21±0.42 ^c	5.72±0.66 ^b	4.65±0.22 ^{bc}	3.15±0.48 ^c	0.33±0.14 ^d	2.53±0.12 ^{cd}	17.03±3.29 ^a
32	(<i>E</i>)-3-hexenyl acetate	675, 1.290	1008.3	3.80±0.47 ^d	12.82±0.89 ^b	2.87±0.40 ^d	13.85±0.42 ^b	7.03±0.16 ^c	23.19±2.31 ^a	6.09±1.25 ^c
33	(<i>E,Z</i>)-2,4-Decadienoic acid, ethyl ester	1452, 1.500	1470.3	2.70±0.53 ^a	-	-	1.47±0.10 ^b	-	-	3.39±1.36 ^a
34	Heptyl acetate	870, 1.240	1113.7	3.04±0.22 ^c	270.06±12.56 ^a	12.19±2.50 ^{bc}	5.82±0.53 ^c	4.62±0.23 ^c	9.97±0.67 ^{bc}	15.58±0.41 ^b
35	Ethyl methacrylate	291, 1.040	784.88	-	-	-	4.77±0.27 ^a	-	-	-
36	Ethyl acrylate	189, 0.900	695.64	-	-	-	1.69±0.24 ^a	-	-	0.55±0.03 ^b
37	Diethyl carbonate	291, 1.150	784.97	2.49±0.24 ^b	-	-	4.81±0.25 ^a	-	-	-
38	Ethyl heptanoate	843, 1.250	1098.6	3.48±0.37 ^b	0.74±0.26 ^d	-	2.77±0.19 ^c	-	0.77±0.04 ^d	8.79±0.13 ^a
39	Pentyl acetate	504, 1.160	914.94	2.84±0.14 ^e	9.86±0.49 ^c	4.39±0.52 ^{de}	4.37±0.38 ^{de}	5.70±0.69 ^d	22.36±2.59 ^a	18.59±1.53 ^b
40	Decyl acetate	1365, 1.270	1412.2	-	0.83±0.11 ^a	0.07±0.02 ^c	-	-	-	0.16±0.06 ^b
41	Pentyl acetate	480, 1.150	901.82	3.27±0.63 ^b	0.64±0.02 ^c	-	0.33±0.01 ^c	-	3.75±0.38 ^b	8.06±0.82 ^a
42	Ethyl tiglate	549, 1.300	939.6	2.76±0.28 ^c	32.76±6.28 ^a	1.13±0.19 ^c	27.78±2.25 ^b	0.09±0.02 ^c	0.40±0.14 ^c	0.56±0.04 ^c
43	Propyl (<i>E</i>)-2-methylbut-2-enoate	729, 1.340	1037.3	-	0.21±0.03 ^a	-	-	-	-	-
44	Methyl tiglate	417, 1.290	864.58	-	-	3.45±0.21 ^a	-	-	-	-
45	Ethyl (<i>Z</i>)-hex-3-enoate	672, 1.310	1006.7	2.14±0.23 ^a	-	-	-	-	-	-
46	Ethyl phenylacetate	1101, 1.910	1247	1.74±0.13 ^a	-	-	0.48±0.01 ^c	-	-	0.69±0.14 ^b
47	Methyl propionate	141, 0.750	619.3	1.58±0.08 ^d	5.97±0.61 ^b	1.68±0.35 ^d	1.78±0.22 ^d	5.40±0.67 ^b	8.93±0.65 ^a	2.86±0.28 ^c

48	Methyl (<i>E</i>)-2-octenoate	972, 1.420	1171.5	2.04±0.03 ^a	0.33±0.05 ^{de}	0.36±0.03 ^{cd}	0.32±0.02 ^{de}	0.48±0.16 ^c	0.21±0.08 ^c	0.82±0.02 ^b
49	2-Buten-1-ol, acetate	351, 1.190	825.25	-	0.44±0.04 ^b	1.82±0.52 ^a	0.55±0.02 ^b	-	-	-
50	Methyl heptanoate	708, 1.230	1026	2.89±0.29 ^{bc}	3.32±0.38 ^b	0.65±0.12 ^d	0.95±0.04 ^d	2.88±0.08 ^{bc}	2.59±0.61 ^c	4.40±0.16 ^a
51	Methyl 2-methylbutyrate	279, 0.960	774.56	1.42±0.21 ^e	7.00±0.74 ^b	2.58±0.38 ^d	14.56±0.86 ^a	1.57±0.05 ^e	6.80±0.90 ^b	4.14±0.19 ^c
52	Propyl 2-Methylbutyrate	561, 1.130	946.06	-	-	-	0.35±0.03 ^a	-	-	0.18±0.03 ^b
53	(<i>E,Z</i>)-2,4-Decadienoic acid, methyl ester	1341, 1.520	1396.5	0.80±0.04 ^b	0.33±0.03 ^{cd}	0.17±0.01 ^{de}	0.41±0.01 ^c	1.40±0.25 ^a	-	1.37±0.13 ^a
54	Methyl valerate	348, 1.090	823.41	1.10±0.08 ^c	0.90±0.07 ^c	0.28±0.07 ^d	-	-	6.68±0.07 ^a	3.72±0.64 ^b
55	Methyl (<i>3E</i>)-3-hexenoate	537, 1.280	933.03	0.82±0.03 ^b	1.04±0.18 ^a	0.64±0.02 ^c	-	0.17±0.00 ^e	0.16±0.01 ^e	0.49±0.03 ^d
56	Phenethyl acetate	1122, 1.890	1259.5	0.45±0.09 ^c	0.84±0.02 ^a	0.12±0.01 ^d	0.51±0.04 ^{cb}	0.11±0.00 ^d	0.18±0.00 ^d	0.54±0.05 ^b
57	Hexyl butyrate	1008, 1.250	1191.7	0.63±0.01 ^d	0.56±0.02 ^d	0.22±0.04 ^e	0.50±0.01 ^d	1.52±0.07 ^c	3.86±0.11 ^b	5.19±0.15 ^a
58	Butyl butyrate	654, 1.190	996.9	-	-	-	-	-	0.42±0.04 ^a	0.14±0.04 ^b
59	Ethyl benzoate	975, 1.790	1173.4	0.34±0.03 ^b	0.74±0.03 ^a	-	-	-	-	0.22±0.02 ^c
60	Methyl benzoate	840, 1.840	1097.3	-	-	0.05±0.00 ^c	-	-	0.60±0.01 ^a	0.17±0.02 ^b
61	Dimethyl carbonate	135, 0.790	609.85	-	-	-	-	1.22±0.14 ^a	-	-
62	(<i>Z</i>)-4-Octenoic acid, ethyl ester	1005, 1.340	1190	0.32±0.02 ^c	-	-	0.60±0.03 ^b	-	0.08±0.01 ^{cd}	1.65±0.26 ^a
63	(<i>Z</i>)-4-Decenoic acid, methyl ester	1206, 1.370	1309.9	-	-	-	0.05±0.01 ^c	0.12±0.01 ^b	-	0.49±0.07 ^a
64	(<i>E</i>)-2-Heptenoic acid, ethyl ester	930, 1.400	1147.7	-	-	-	0.04±0.00 ^b	-	-	0.09±0.00 ^a

65	Ethyl (<i>E</i>)-pent-2-enoate	567, 1.350	949.46	0.43±0.01 ^a	-	-	-	-	-	0.09±0.00 ^b
66	Ethyl decanoate	1341, 1.270	1396.3	0.17±0.00 ^c	-	-	0.40±0.08 ^b	-	-	0.84±0.01 ^a
67	Methyl decanoate	1230, 1.290	1325.2	-	-	0.16±0.01 ^b	0.13±0.02 ^c	0.44±0.04 ^a	-	-
68	4-Octenoic acid, methyl ester	876, 1.340	1117.2	0.26±0.01 ^c	-	0.40±0.03 ^b	0.20±0.02 ^d	0.28±0.00 ^c	0.10±0.00 ^e	0.61±0.05 ^a
69	(<i>Z</i>)-3-Octenoic acid, ethyl ester	1026, 1.350	1202	-	-	-	0.16±0.00 ^b	-	-	0.63±0.03 ^a
70	Propyl butyrate	474, 1.130	898.4	0.23±0.02 ^c	0.24±0.03 ^c	0.03±0.00 ^d	-	-	0.84 ±0.07 ^b	1.00±0.04 ^a
71	Propyl hexanoate	837, 1.230	1095.3	0.14±0.02 ^c	-	-	-	-	0.22±0.01 ^b	1.16±0.12 ^a
72	1-Methylethyl hexanoate	732,1.130	1038.8	-	-	-	-	-	0.56±0.10 ^a	0.12±0.02 ^b
73	2-Methylpropyl hexanoate	936,1.200	1151	-	-	-	-	-	-	0.06±0.00 ^a
74	Hexyl hexanoate	1326, 1.270	1386.7	-	-	0.04±0.00 ^c	0.29±0.02 ^c	0.67±0.10 ^b	0.73±0.03 ^b	2.78±0.11 ^a
75	Hex-5-enoic acid, ethyl ester	669,1.310	1005.1	-	-	-	-	-	-	0.10±0.00 ^a
76	Hexyl pentanoate	1173,1.26 0	1289.5	-	-	-	-	-	-	0.04±0.00 ^a
77	Hexyl caprylate	1614,1.28 0	1583.2	-	-	-	-	-	-	0.01±0.00 ^a
78	2-Pentenoic acid, ethyl	567, 1.340	949.45	-	-	-	0.17±0.01 ^a	-	-	-

	ester									
79	Butanoic acid, 2-methyl-, 2-methylbutyl ester	855, 1.150	1105.2	-	-	-	0.13±0.01 ^a	-	-	-
80	Butanoic acid, 2-methylpropyl ester	579,1.130	955.89	-	-	-	-	-	-	0.10±0.00 ^a
81	Dodecanoic acid, ethyl ester	1632,1.27 0	1595.9	-	-	-	-	-	-	0.03±0.00 ^a
82	(Z)-3-Octen-1-ol, acetate	1020, 1.340	1198.5	-	0.35±0.03 ^a	0.23±0.03 ^b	-	-	-	-
83	(Z)-3-Octenoic acid, methyl ester	900, 1.380	1130.8	-	-	0.03±0.00 ^b	-	-	-	0.07±0.00 ^a
84	(Z)-4-Decenoic acid, ethyl ester	1317,1.34 0	1381	-	-	-	-	-	-	0.07±0.00 ^a
85	5-Hexenoic acid, methyl ester	498,1.260	911.71	-	-	-	-	-	-	0.03±0.00 ^a
86	4-Decenoic acid, methyl ester	1206, 1.370	1309.9	-	0.27±0.01 ^a	-	-	-	-	-
87	4-Hexen-1-ol, acetate	1038,1.36 0	1209.2	-	-	-	-	-	0.10±0.00 ^a	-
88	Methyl (Z)-hex-3-enoate	537, 1.290	933.03	-	0.26±0.10 ^a	-	0.06±0.01 ^b	-	-	-
89	Ethyl 3-(methylthio)- (E)-2-propenoate	990, 1.980	1181.9	-	0.22±0.05 ^a	-	-	-	-	0.24±0.03 ^a
90	Methyl 3-(methylthio)	846, 2.040	1100.6	-	-	0.24±0.00 ^a	-	-	-	-

	-(<i>E</i>)-2-propenoate									
91	3-(Methylthio) propanoic acid ethyl ester	849,1.730	1102.2	-	-	-	-	-	-	0.71±0.03 ^a
92	Methyl 3-methylthiopropionate	708,1.810	1026.3	-	-	-	-	-	-	0.23±0.03 ^a
93	3-Methyl-3-buten-1-ol, acetate	450, 1.210	884.17	-	1.20±0.02 ^a	-	-	-	-	-
94	2-Methylbut-2-en-1-yl acetate	519, 1.300	923.21	-	-	1.74±0.06 ^a	-	-	-	-
95	γ-Butyrolactone	504, 2.680	915.77	-	-	-	1.30±0.31 ^a	-	-	-
96	Prenylacetate	519, 1.280	923.2	-	-	-	-	0.28±0.02 ^a	-	-
97	(<i>Z</i>)-3-Decen-1-yl acetate	1332, 1.350	1390.6	-	1.06±0.18 ^a	-	-	-	-	-
98	Hexyl tiglate	1242, 1.380	1332.9	-	-	0.03±0.00 ^a	-	-	-	-
99	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethy lpentyl ester	1311, 1.460	1377.2	-	-	0.37±0.05 ^a	-	-	-	-
100	Diisobutyl phthalate	1989, 1.950	1875.7	-	-	0.26±0.04 ^b	-	-	-	1.18±0.02 ^a
101	Butanoic acid, 2-methyl-, 2-methylpropyl ester	666, 1.130	1003.4	-	-	-	0.27±0.02 ^a	-	-	-

15	(E)-2-Octenal	768, 1.450	1058.4	0.09±0.01 ^a	-	0.03±0.01 ^b	0.09±0.03 ^a	0.06±0.02 ^a	-	0.03±0.01 ^b
16	(E)-2-Nonenal	903, 1.220	1132.4	-	-	0.02±0.01 ^b	-	-	-	0.07±0.02 ^a
17	(E)-2-Hexenal	393, 1.370	850.35	4.42±0.21 ^{cd}	16.66±3.13 ^b	7.40±0.31 ^c	22.20±0.69 ^a	13.07±4.27 ^b	20.51±1.14 ^a	2.60±1.15 ^d
18	(E)-2,4-Decadienal	1182, 1.550	1295	-	-	-	-	0.07±0.01 ^a	-	-
19	Benzeneacetaldehyde	744, 2.060	1045.8	-	-	0.14±0.09 ^b	0.44±0.13 ^a	-	-	0.08±0.03 ^{bc}
20	Benzaldehyde	588, 1.910	961.23	-	-	0.06±0.04 ^b	0.12±0.02 ^a	0.07±0.01 ^b	-	0.02±0.01 ^c
	Subtotal			20.37	60.26	33.17	59.19	43	36.99	8.4
Ketones										
(5)										
1	Methyl heptenone	639, 1.380	988.81	1.16±0.24 ^b	-	0.36±0.04 ^c	1.68±0.28 ^a	1.42±0.31 ^{ab}	0.36±0.10 ^c	1.29±0.26 ^{ab}
2	Geranyl acetone	1431, 1.500	1456.3	-	-	0.15±0.03 ^a	-	-	-	0.18±0.05 ^a
3	2,3-Octanedione	633, 1.280	985.47	-	-	0.15±0.02 ^a	-	-	-	-
4	2,3-Butanedione	123, 0.720	578.34	-	-	-	0.54±0.02 ^a	-	-	-
5	Butenone	123, 0.720	578.34	-	-	-	-	0.50±0.04 ^a	-	0.48±0.07 ^a
	Subtotal			1.16	0	0.66	2.22	1.92	0.36	1.95
Alkanes										
(8)										
1	Tetradecane	1347, 0.980	1400	1.40±0.05 ^{bc}	0.19±0.01 ^e	0.37±0.02 ^e	1.25±0.05 ^c	1.82±0.07 ^a	0.69±0.07 ^d	1.52±0.29 ^b
2	Hexadecane	1638, 1.010	1600	0.43±0.07 ^a	-	-	-	-	-	-

3	Tridecane	1191, 0.950	1300	0.41±0.08 ^{bc}	0.15±0.01 ^d	0.15±0.02 ^d	0.49±0.15 ^{ab}	0.32±0.08 ^c	0.34±0.03 ^c	0.57±0.01 ^a
4	3-Methyl-tridecane	1302, 0.970	1371.1	-	-	0.03±0.00 ^b	0.04±0.01 ^a	-	-	-
5	Undecane	846, 0.890	1100	-	0.23±0.03 ^a	0.07±0.00 ^c	0.14±0.03 ^b	0.10±0.01 ^{bc}	0.13±0.03 ^b	-
6	Heptadecane	1773, 1.020	1700	-	-	0.04±0.00 ^b	-	-	-	0.18±0.12 ^a
7	2,6,10-Trimethyl-Dodeca ne	1311, 0.940	1376.9	-	-	0.03±0.00 ^b	-	-	-	0.07±0.00 ^a
8	Decane	660, 0.870	1000	-	-	0.02±0.00 ^a	-	-	-	-
	Subtotal			2.24	0.57	0.71	1.92	2.24	1.16	2.34
Others										
(7)										
1	<i>o</i> -Xylene	429, 1.180	871.65	-	2.79±0.12 ^a	1.33±0.03 ^b	-	-	2.70±0.26 ^a	-
2	<i>p</i> -Xylene	426, 1.180	869.87	-	-	-	10.35±0.13 ^a	-	-	8.55±0.56 ^b
3	1,2,3-Trimethyl-Benzene	648, 1.340	993.7	-	-	0.19±0.02 ^a	-	-	-	-
4	4-Ethyl-1,2-dimethyl-Ben zene	819,1.370	1085.7	-	-	-	-	-	-	0.09±0.01 ^a
5	1-Ethyl-4-methylbenzene	591, 1.270	962.52	-	-	-	0.77±0.04 ^a	0.65±0.03 ^b	-	-
6	<i>o</i> -Cymene	804, 1.350	1077.7	-	-	0.06±0.00 ^a	-	-	-	-
7	Denderalasin	1608, 1.410	1579	-	-	0.23±0.01 ^a	-	-	-	-
	Subtotal			0	2.79	1.81	11.12	0.65	2.7	8.64

Total	1877.71	1799.46	608.53	1158.07	568.84	2825.59	657.67
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¹R.T. refers to the retention time. ²RI refers to the calculated retention index. ³Data are means \pm SD of three replications. ⁴“-” represents no data.