Supplementary Table 1. Volatile compounds (μg g^{-1}) in herbal tea samples *

Compounds	RI	Samples							
		S	SC	SH	SHC	T	TC	TH	THC
trans-β-Ionone-5,6-epoxide	668	N.D.	N.D.	N.D.	N.D.	1.21±0.14^{bc}	1.36±0.34^{bc}	0.74±0.30^{b}	1.46±0.29^{c}
2-Propanone	795	15.29±2.30^{b}	3.02±0.09^{a}	106.02±11.84^{e}	2.46±0.05^{a}	45.27±3.65^{d}	27.28±1.90^{c}	7.23±0.62^{ab}	39.73±3.83^{d}
2-Methylbutanal	906	1.39±0.11^{bc}	1.73±0.39^{c}	1.67±0.24^{c}	1.35±0.09^{bc}	0.82±0.05^{ab}	0.85±0.14^{ab}	0.66±0.06^{a}	1.65±0.44^{c}
3-Methylbutanal	910	1.95±0.02^{ab}	2.46±0.53^{bc}	2.05±0.24^{bc}	1.97±0.55^{b}	1.05±0.30^{a}	2.83±0.04^{c}	1.03±0.04^{a}	1.63±0.07^{ab}
Butanoic acid	982	0.29±0.01^{b}	0.28±0.02^{b}	N.D.	0.32±0.04^{b}	N.D.	0.61±0.01^{d}	0.42±0.04^{c}	N.D.
α-Pinene	1021	100.45±18.27^{b}	25.33±1.94^{a}	253.71±17.65^{c}	26.00±2.11^{a}	80.20±0.52^{b}	93.66±17.31^{b}	47.95±3.13^{a}	52.35±4.92^{a}
α-Phellandrene	1025	0.84±0.06^{ab}	3.53±0.93^{c}	1.92±0.51^{b}	0.90±0.54^{ab}	N.D.	1.01±0.37^{ab}	0.77±0.16^{a}	0.91±0.17^{ab}
Camphene	1066	1.26±0.09^{d}	N.D.	5.83±0.25^{e}	N.D.	N.D.	1.01±0.03^{c}	0.57±0.08^{b}	N.D.
Hexanal	1080	1.86±0.17^{ab}	2.71±0.70^{c}	1.64±0.40^{a}	2.08±0.77^{ab}	2.20±0.12^{ab}	2.80±0.16^{c}	1.33±0.05^{a}	2.88±0.13^{c}
β-Pinene	1102	38.30±6.88^{d}	36.69±1.46^{d}	64.99±3.74^{e}	26.14±1.20^{bc}	18.35±1.18^{a}	28.07±1.10^{c}	17.01±0.73^{a}	20.76±0.41^{ab}
Xylene	1128	N.D.	N.D.	N.D.	N.D.	0.50±0.17^{b}	1.20±0.28^{c}	0.48±0.04^{b}	1.06±0.15^{c}
β-Myrcene	1149	14.51±4.45^{a}	34.44±0.56^{c}	15.79±1.17^{a}	18.98±0.17^{a}	36.99±1.72^{c}	44.82±2.33^{d}	26.04±0.32^{b}	46.94±1.14^{d}
1-Penten-3-ol	1159	1.93±0.22^{ab}	4.49±1.46^{c}	4.61±0.57^{c}	2.58±0.15^{b}	1.09±0.47^{ab}	1.30±0.90^{ab}	0.68±0.20^{a}	1.34±0.50^{ab}
Hexanoic acid	1182	15.90±0.21^{b}	2.74±0.49^{a}	35.84±7.78^{c}	2.60±0.91^{a}	2.99±0.21^{a}	3.38±0.07^{a}	1.69±0.19^{a}	2.77±0.09^{a}
α-Terpinene	1185	3.59±0.80^{a}	4.08±1.44^{a}	14.23±1.95^{c}	9.90±0.32^{b}	3.05±1.81^{a}	3.85±0.10^{a}	1.88±0.58^{a}	3.49±1.01^{a}
dl-Limonene	1189	27.10±3.95^{bc}	25.04±1.79^{b}	56.28±6.12^{f}	15.86±0.12^{a}	33.72±0.21^{cd}	38.62±3.75^{de}	21.88±0.52^{ab}	41.29±2.26^{e}
1,8-Cineole	1212	206.49±28.96^{e}	233.92±18.69^{e}	118.79±0.66^{c}	171.79±4.51^{d}	87.84±2.21^{ab}	97.08±3.73^{bc}	62.83±0.40^{a}	109.38±2.60^{bc}
(E)-2-Hexenal	1225	9.29±1.18^{c}	3.32±0.89^{ab}	1.89±0.53^{a}	1.51±0.56^{a}	7.41±1.50^{c}	8.74±0.59^{c}	4.45±0.24^{b}	5.11±0.96^{b}
cis-Ocimene	1236	6.73±0.52^{d}	2.19±0.35^{ab}	13.10±2.13^{e}	1.83±0.01^{a}	6.00±0.92^{cd}	6.91±0.74^{d}	4.02±0.14^{bc}	7.40±0.23^{d}
γ-Terpinene	1246	0.26±0.01^{b}	12.67±0.20^{c}	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3-Octanone	1256	N.D.	3.49±0.87^{c}	N.D.	1.38±0.19^{b}	N.D.	N.D.	N.D.	N.D.
Styrene	1258	0.16±0.04^{a}	0.34±0.16^{a}	0.56±0.24^{a}	0.58±0.15^{a}	4.76±1.12^{b}	5.14±0.71^{b}	2.73±0.82^{b}	6.19±0.68^{b}
Acetic acid	1270	1.34±0.39^{a}	1.00±0.51^{a}	3.78±0.78^{b}	2.33±0.23^{a}	9.52±0.00^{d}	5.13±0.41^{b}	5.02±1.10^{a}	6.87±1.39^{c}

Suppl. Table 1 (Continued)

Compounds	RI	S	SC	SH	SHC	T	TC	TH	THC
p-Cymene	1272	2.08±0.07^{b}	7.27±1.90^{d}	7.80±0.37^{d}	3.80±0.02^{c}	4.24±0.11^{c}	1.85±0.61^{b}	1.77±0.08^{b}	N.D.
α-Terpinolene	1283	10.47±1.93^{b}	4.73±0.02^{a}	20.61±1.99^{c}	3.85±0.09^{a}	9.75±0.01^{b}	10.89±1.34^{b}	4.75±0.75^{a}	5.53±0.48^{a}
Octanal	1294	N.D.	9.47±1.93^{c}	N.D.	5.46±0.03^{b}	N.D.	N.D.	N.D.	N.D.
2-Penten-1-ol	1327	N.D.	N.D.	N.D.	N.D.	1.55±0.11^{b}	1.10±0.53^{b}	0.73±0.31^{ab}	1.55±0.75^{b}
6-Methyl-5-Hepten-2-One	1343	3.01±0.92^{bc}	5.84±0.03^{d}	6.22±1.28^{d}	3.24±0.13^{c}	1.51±0.19^{a}	1.45±0.47^{a}	0.90±0.08^{a}	1.79±0.12^{ab}
1-Hexanol	1359	0.25±0.17^{a}	N.D.	1.37±0.69^{a}	N.D.	N.D.	9.81±1.73^{c}	5.94±0.03^{b}	13.66±0.90^{d}
2,3-Dimethyl-Pyrazine	1363	0.73±0.11^{d}	0.63±0.01^{bc}	0.69±0.05^{c}	0.45±0.05^{b}	N.D.	N.D.	N.D.	N.D.
1-Octenyl-3-acetate	1382	5.49±1.66^{c}	2.51±0.22^{b}	11.04±1.54^{d}	1.54±0.05^{ab}	N.D.	N.D.	N.D.	N.D.
Octanoic acid	1390	0.42±0.24^{a}	0.23±0.01^{a}	0.64±0.15^{a}	0.91±0.04^{ab}	1.19±0.19^{b}	0.99±0.22^{ab}	0.73±0.01^{a}	1.24±0.14^{b}
3-Hexen-1-ol	1393	12.21±0.95^{b}	5.35±0.06^{a}	25.02±0.36^{c}	3.19±0.02^{a}	4.64±1.38^{a}	4.52±0.41^{a}	2.45±0.81^{a}	3.18±0.51^{a}
3-Octanol	1395	N.D.	2.57±0.96^{a}	4.13±0.69^{b}	N.D.	N.D.	N.D.	N.D.	N.D.
Nonanal	1399	1.43±0.80^{a}	N.D.	N.D.	2.59±0.44^{ab}	9.11±0.22^{d}	6.90±1.06^{c}	3.90±0.01^{b}	3.88±0.56^{b}
Tetradecane	1402	8.10±1.35^{c}	4.57±0.22^{b}	3.38±0.57^{a}	4.59±0.13^{b}	N.D.	N.D.	N.D.	N.D.
2-Hexen-1-ol, (E)-	1412	0.95±0.03^{a}	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
1-Octen-3-ol	1452	2.32±0.42^{ab}	6.94±0.54^{e}	2.83±0.24^{ab}	5.77±0.11^{de}	4.84±1.32^{cd}	3.39±0.52^{bc}	2.60±0.81^{ab}	1.40±0.35^{a}
α-Cubebene	1465	7.48±0.30^{c}	3.88±0.89^{b}	N.D.	N.D.	14.34±1.68^{e}	11.49±0.54^{d}	11.36±1.50^{d}	5.73±1.53^{bc}
Borneol-L	1472	10.17±1.17^{b}	N.D.	35.45±2.18^{c}	N.D.	N.D.	N.D.	N.D.	N.D.
2,4-Heptadienal, (E,E)	1476	9.13±1.31^{bc}	3.60±0.46^{a}	19.00±0.20^{d}	8.59±0.85^{b}	6.47±0.61^{ab}	7.32±3.53^{ab}	5.50±0.02^{ab}	12.45±2.05^{c}
trans-Sabinene hydrate	1477	6.70±0.72^{b}	5.47±1.33^{b}	11.26±2.59^{c}	N.D.	N.D.	N.D.	N.D.	N.D.
cis-Linalool oxide	1487	13.24±1.93^{c}	14.22±1.26^{c}	32.91±0.39^{d}	9.45±0.23^{b}	2.67±0.45^{a}	2.30±0.46^{a}	2.53±0.26^{a}	2.74±0.41^{a}
2-Ethyl-hexanol	1493	0.29±0.09^{a}	0.28±0.05^{a}	0.71±0.08^{b}	0.45±0.34^{ab}	0.63±0.04^{ab}	1.16±0.08^{c}	0.70±0.14^{b}	0.64±0.06^{ab}
α-Copaene	1504	17.91±1.14^{d}	6.50±0.52^{ab}	30.72±1.09^{e}	5.00±0.15^{a}	20.73±2.01^{d}	18.55±3.44^{d}	10.10±0.77^{bc}	12.81±0.63^{c}
3,5-Octadien-2-one	1532	11.24±1.75^{b}	11.08±1.42^{b}	12.94±1.16^{b}	23.56±0.40^{c}	3.48±1.45^{a}	2.99±1.10^{a}	2.05±0.99^{a}	2.79±0.37^{a}

Suppl. Table 1 (Continued)

Compounds	RI	S	SC	SH	SHC	T	TC	TH	THC
β-Bourbonone	1536	11.78±0.32^{c}	N.D.	N.D.	N.D.	17.40±0.00^{e}	13.08±0.33^{d}	7.85±0.08^{b}	17.23±1.10^{e}
Benzaldehyde	1543	11.78±0.77^{b}	37.21±0.62^{f}	17.79±1.57^{d}	30.76±0.42^{e}	14.73±0.03^{c}	N.D.	N.D.	N.D.
Linalool	1549	402.23±49.11^{c}	361.65±31.20^{bc}	1122.27±66.26^{d}	315.14±10.03^{b}	314.12±16.02^{b}	322.29±11.61^{b}	301.03±0.01^{a}	382.52±39.50^{bc}
Linalool-L	1550	N.D.	N.D.	N.D.	N.D.	75.12±4.19^{a}	N.D.	217.34±46.19^{b}	67.88±3.39^{a}
1-Octanol	1562	N.D.	1.91±0.27^{bc}	29.46±1.07^{d}	N.D.	2.38±0.13^{c}	2.42±0.72^{c}	1.12±0.24^{ab}	2.65±0.08^{c}
α-trans-Bergamotene	1594	73.99±3.63^{d}	25.30±0.61^{b}	8.49±0.33^{a}	9.71±0.08^{a}	37.22±3.47^{c}	38.15±2.50^{c}	24.95±2.35^{b}	34.74±1.17^{c}
β-Elemene	1601	103.10±1.53^{d}	22.27±0.32^{a}	172.55±4.20^{e}	16.46±1.31^{a}	73.08±5.27^{c}	52.42±1.59^{b}	20.45±0.37^{a}	46.88±1.39^{b}
α-Guaiene	1607	48.99±1.49^{e}	10.95±0.33^{a}	85.42±0.66^{f}	9.86±0.52^{a}	37.06±3.45^{d}	28.99±1.90^{c}	11.89±0.08^{a}	16.41±1.94^{b}
trans-Caryophyllene	1619	0.26±0.14^{a}	5.10±1.04^{bc}	0.71±0.06^{a}	0.56±0.13^{a}	9.99±0.67^{d}	6.59±0.79^{c}	4.33±0.75^{b}	10.26±1.32^{d}
Caryophyllene	1622	19.76±1.28^{b}	N.D.	37.76±7.17^{c}	N.D.	N.D.	3.80±1.28^{a}	N.D.	N.D.
Aromadendrene	1626	8.49±0.76^{d}	2.66±0.71^{ab}	31.71±1.50^{e}	0.91±0.10^{a}	4.31±1.58^{bc}	4.90±0.59^{c}	2.30±0.51^{ab}	3.74±0.99^{bc}
β-Cedrene	1627	20.92±0.30^{c}	2.31±0.57^{b}	71.42±1.51^{d}	1.07±0.04^{ab}	N.D.	N.D.	N.D.	N.D.
Benzoic acid	1643	12.73±2.96^{c}	9.99±0.47^{bc}	20.07±2.91^{d}	8.11±0.01^{b}	2.50±0.06^{a}	2.29±0.29^{a}	1.37±0.15^{a}	2.57±0.10^{a}
(E)-β-Farnesene	1669	7.32±0.03^{a}	6.73±0.04^{a}	12.77±0.19^{b}	6.22±0.48^{a}	22.27±1.49^{d}	18.40±0.18^{c}	11.07±0.47^{b}	24.83±2.54^{e}
Epiglobulol	1676	3.60±0.29^{b}	N.D.	10.10±0.04^{d}	N.D.	7.28±0.00^{c}	4.61±0.87^{b}	N.D.	10.30±1.41^{d}
p-Menth-1-en-8-ol	1688	12.29±1.54^{c}	7.04±0.82^{b}	22.97±0.04^{d}	5.94±0.73^{b}	6.85±0.17^{b}	5.77±0.22^{b}	3.82±0.02^{a}	6.68±0.14^{b}
α-Humulene	1694	67.26±0.55^{e}	21.62±0.36^{c}	117.34±0.62^{f}	16.84±0.65^{b}	32.48±3.51^{d}	24.10±1.92^{c}	12.55±0.10^{a}	15.62±0.32^{ab}
trans-β-Caryophyllene	1702	5.02±0.59^{e}	4.55±0.23^{de}	14.54±0.07^{f}	N.D.	2.64±0.31^{bc}	4.20±0.82^{de}	1.70±0.32^{b}	3.40±0.94^{cd}
α-Terpineol	1712	58.71±5.29^{e}	28.02±1.43^{d}	111.38±1.78^{f}	24.65±2.88^{cd}	17.29±2.00^{b}	14.34±1.11^{ab}	8.68±0.29^{a}	19.90±1.45^{bc}
Valencene	1725	N.D.	N.D.	N.D.	N.D.	0.55±0.29^{b}	1.16±0.25^{c}	0.60±0.12^{b}	1.86±0.07^{d}
Germacrene	1733	142.78±0.15^{d}	13.21±0.54^{a}	167.23±10.41^{e}	9.47±0.51^{a}	50.13±4.22^{c}	38.85±1.42^{b}	13.62±0.09^{a}	42.89±2.01^{bc}
α-Bulnesene	1739	1.09±0.01^{b}	6.13±0.15^{d}	4.25±0.05^{c}	6.10±0.60^{d}	N.D.	N.D.	N.D.	N.D.
β-Selinene	1752	9.54±0.35^{c}	3.45±0.31^{b}	20.95±1.45^{d}	3.62±0.42^{b}	N.D.	N.D.	N.D.	N.D.

Suppl. Table 1 (Continued)

Compounds	RI	S	SC	SH	SHC	T	TC	TH	THC
α-Selinene	1755	9.35±0.16^{d}	2.76±0.34^{b}	10.33±0.27^{e}	3.30±0.37^{c}	N.D.	N.D.	N.D.	13.36±0.04^{f}
Bicyclogermacrene	1761	28.93±0.45^{e}	4.42±0.25^{ab}	44.98±2.28^{f}	3.48±0.27^{a}	24.28±2.29^{d}	18.90±1.00^{c}	7.64±0.06^{b}	23.18±2.15^{d}
γ-Cadinene	1784	31.58±0.86^{c}	14.29±1.58^{a}	54.57±0.00^{d}	12.93±0.97^{a}	21.70±0.89^{b}	18.34±0.47^{b}	10.85±1.30^{a}	35.14±4.21^{c}
Nerolidol	1808	N.D.	2.23±0.25^{b}	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
α-Bisabolol	1809	3.70±0.48^{b}	37.83±2.98^{d}	11.47±0.48^{c}	N.D.	N.D.	N.D.	N.D.	N.D.
Geraniol	1853	0.86±0.05^{b}	N.D.	2.70±0.41^{c}	N.D.	N.D.	N.D.	N.D.	N.D.
cis-Calamenene	1862	1.65±0.05^{c}	1.58±0.30^{c}	5.14±0.28^{d}	N.D.	0.92±0.20^{b}	0.97±0.28^{b}	0.42±0.02^{a}	1.33±0.04^{bc}
Benzyl alcohol	1894	0.22±0.04^{a}	N.D.	1.15±0.95^{b}	N.D.	N.D.	N.D.	N.D.	N.D.
Phenylethyl alcohol	1934	12.31±1.02^{c}	12.25±0.14^{c}	19.38±0.16^{d}	12.71±1.38^{c}	4.05±0.23^{b}	4.40±0.21^{b}	2.06±0.15^{a}	3.17±0.46^{ab}
trans-β-Ionone	1956	N.D.	N.D.	3.89±0.03^{c}	1.58±0.14^{b}	N.D.	N.D.	N.D.	N.D.
β-Ionone	1967	2.17±0.52^{c}	0.68±0.16^{b}	5.98±0.16^{d}	N.D.	1.10±0.15^{b}	1.08±0.14^{b}	0.64±0.04^{b}	1.00±0.01^{b}
Cubenol	2091	0.90±0.16^{c}	N.D.	2.61±0.34^{d}	N.D.	0.72±0.12^{bc}	0.53±0.05^{b}	N.D.	N.D.
2-Propenoic acid	2104	62.65±3.71^{a}	202.86±2.12^{bc}	434.17±3.33^{e}	208.60±12.43^{c}	189.78±20.17^{bc}	171.73±1.13^{b}	87.10±0.41^{a}	267.76±31.90^{d}
Eugenol	2158	135.14±8.88^{d}	19.32±0.61^{ab}	241.37±8.64^{e}	25.94±1.67^{bc}	22.43±3.61^{abc}	15.84±0.04^{ab}	11.19±0.17^{a}	30.75±1.26^{c}
α-epi-Muurolol	2188	6.93±1.63^{c}	3.88±1.22^{b}	9.05±0.42^{d}	1.10±0.27^{a}	3.83±0.10^{a}	18.59±0.12^{e}	1.88±0.50^{a}	2.45±0.07^{ab}

RI: Retention Index; ND: Not detected.

$^{a\text{-}f}$: Values indicated by different letters in the same line are different from each other at $P < 0.05$ level.

*: Sample names and tea formulations are explained in Table 1 in main text