



Figure S1. Diagram showing the bread making processing times and measurements for the loaf and slices.

Table S1. Mean values \pm standard error of the volatile aromatic compounds identified in the sourdough bread samples using gas chromatography mass spectroscopy.

Common Name	RT	Soft wheat	Semola	Emmer wheat	Soft wheat + Semola	Soft + Emmer wheat	Semola + Emmer wheat
Methyl isocyanate	4.97	1303296.00	0.00	0.00	3211153.00	0.00	0.00
		± 434432	± 0.00	± 0.00	± 1070384.33	± 0.00	± 0.00
Styrene	9.43	0.00	0.00	158755.00	138964.00	0.00	0.00
		± 0.00	± 0.00	± 24534.67	± 46321.33	± 0.00	± 0.00
4-Ethylbenzoic acid, hexyl ester	9.99	0.00	0.00	0.00	152728.00	0.00	0.00
		± 0.00	± 0.00	± 0.00	± 58527.43	± 0.00	± 0.00
Benzaldehyde	11.27	514993.50	350226.00	450928.67	382143.33	422952.00	412071.00
		± 172929.56	± 172929.57	± 172929.58	± 172929.59	± 172929.60	± 172929.61
	11.94	0.00	0.00	404549.67	0.00	0.00	125435.00

2,2,4,6,6-pentamethyl heptane		±0.00	±0.00	±41590.96	±0.00	±0.00	±41811.67
2-pentylfuran	12.01	794978.00	467529.67	4006000.33	1234607.67	1674816.33	1974816.33
		±264993.61	±14945.8	±433700.19	±198107.12	±224669.37	±233806.9
Ethyl hexanoate	12.23	0.00	0.00	0.00	403598.00	495440.00	626841.50
		±0.00	±0.00	±0.00	±64625.83	±198404.14	±212108.3
D-Limonene	12.85	0.00	0.00	0.00	129014.00	107350.50	0.00
		±0.00	±0.00	±0.00	±43004.67	±42842.6	±0.00
5-Ethylcyclopent-1- enecarboxaldehyde	12.95	112232.00	0.00	215634.67	176684.00	198478.67	183284.50
		±37410.67	±0.00	±2220.32	±58894.67	±21028.63	±63866.19
Benzeneacetaldehyde	13.22	0.00	0.00	216104.00	0.00	94723.00	137780.00
		±0.00	±0.00	±72341.44	±0.00	±32262.61	±46533.41
Ethyl heptanoate	14.35	0.00	0.00	190504.50	0.00	0.00	0.00
		±0.00	±0.00	±65361.81	±0.00	±0.00	±0.00
α-Phenethyl alcohol	14.67	7642898.00	22023578.00	9255816.33	6635913.50	9788378.00	8217761.00
		±2554842.51	±983959.45	±424703.51	±2227307.15	±3262792.67	±542915.27
Ethyl octanoate	16.28	224801.50	302963.00	5007063.00	404762.00	2178536.00	1650995.00
		±76043.76	±100987.67	±267825.22	±13757.61	±174343.28	±231141.27
(Z)-3-nonen-1-ol	17.38	0.00	0.00	0.00	0.00	54602.00	0.00
		±0.00	±0.00	±0.00	±0.00	±18200.67	±0.00
Phenethyl formate	17.42	0.00	0.00	0.00	0.00	90410.00	0.00
		±0.00	±0.00	±0.00	±0.00	±30136.67	±0.00
Ethyl decanoate	19.72	0.00	0.00	0.00	494941.00	0.00	0.00
		±0.00	±0.00	±0.00	±234213.88	±0.00	±0.00

Abbreviation: RT: retention time