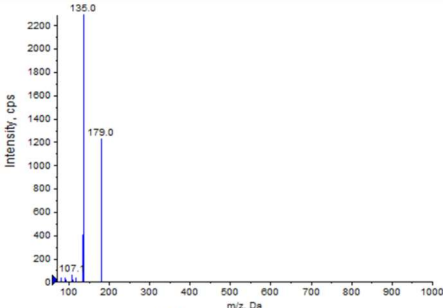
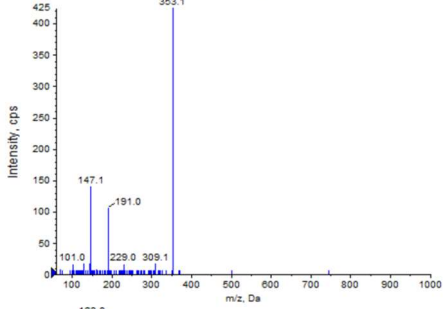
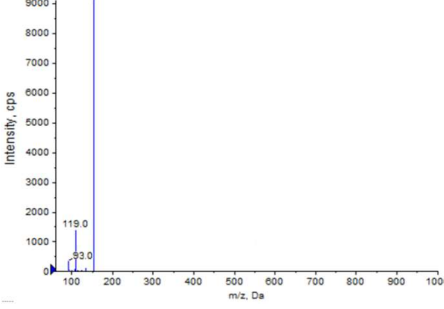
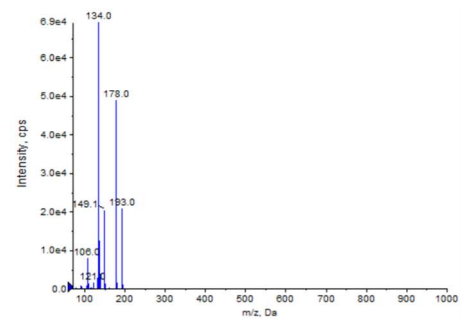


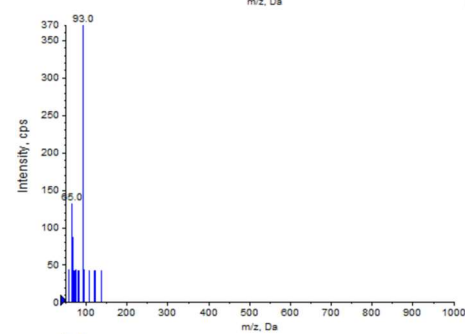
Table S1: The MS data of determined phenolic acids and flavonoids.

Compounds	R _t (min)	[M] ⁻ (m/z)	MS/MS (m/z)	MS/MS product ion spectrum
Caffeic acid	2.41	179	135/107	
Chlorogenic acid	2.21	353	191/179/147	
<i>p</i> -Coumaric acid	2.51	163	119/93	

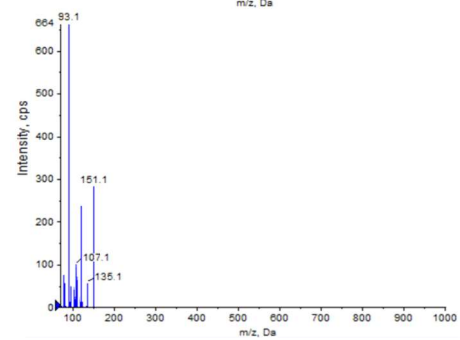
Ferulic acid	2.52	193	178/134
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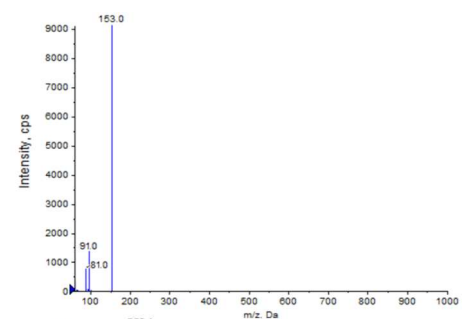
<i>p</i> -Hydroxybenzoic acid	2.30	137	93/65
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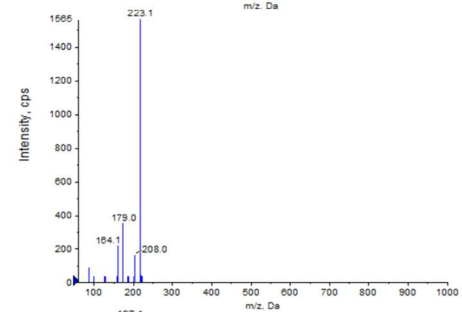
<i>m</i> -Hydroxyphenylacetic acid	2.41	151	135/107/93
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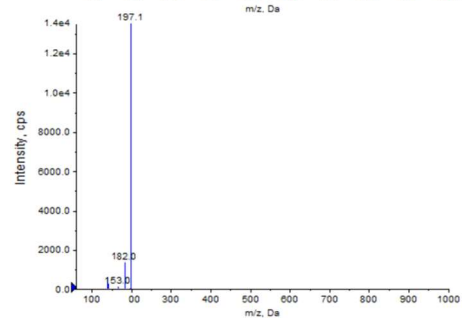
Protocatechuic acid	1.91	153	91/81
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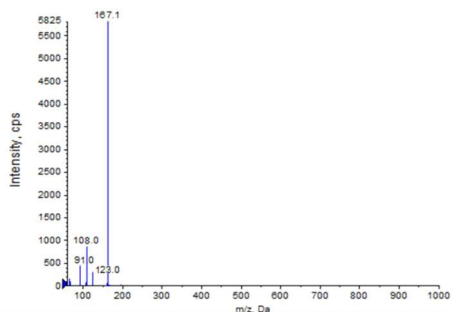
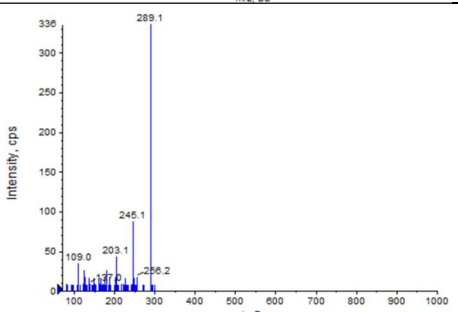
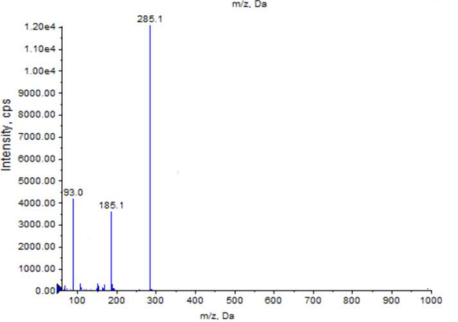


Sinapic acid	2.55	223	208/179/164
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Syringic acid	2.45	197	182/153
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Vanillic acid	2.27	167	123/108/91	
Epicatechin	2.33	289	245/203/109	
Kaempferol	2.92	285	185/93	

Rutin 2.34 609 463/301

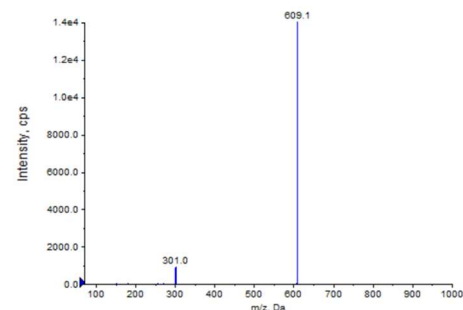


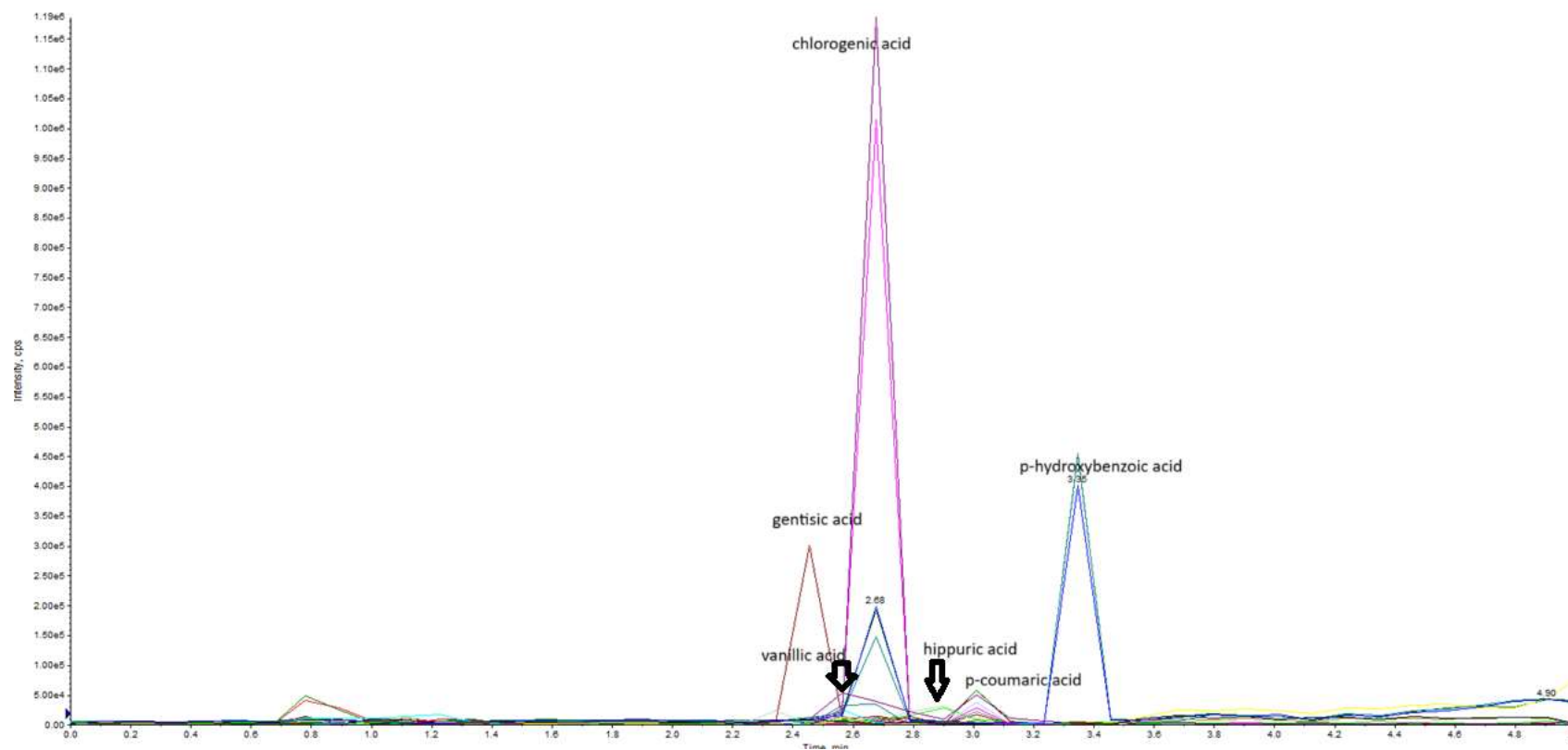
Table S2: Details on phenolic compounds quantification.

	List of compounds	Curve equation	Conc. Range [mg/mL]	R ²
Phenolic acids	<i>p</i> -hydroxybenzoic acid	$y=3.07e+10x$	0.0001-0.002	0.979
	salicylic acid	$y=4.03 e +10x$	0.000003-0.0006	0.998
	<i>m</i> -hydroxyphenylacetic acid	$y=3.13 e +9x$	0.0001-0.001	0.997
	protocatechuic acid	$y=2.57 e +10x$	0.000003-0.0007	1.000
	gentisic acid	$y=8.87 e +9x$	0.00001-0.002	0.998
	<i>p</i> -coumaric acid	$y=7.72 e +9x$	0.00003-0.0003	0.997
	vanilic acid	$y=4.85 e +8x$	0.00005-0.05	0.999
	hippuric acid	$y=8.18 e +8x$	0.00001-0.003	1.000
	caffeic acid	$y=8.57 e +9x$	0.00006-0.001	0.993
	ferulic acid	$y=1.46 e +9x$	0.000006-0.001	0.985
	syringic acid	$y=8.10 e +7x$	0.00003-0.003	1.000
	sinapic acid	$y=5.04 e +8x$	0.000002-0.0004	0.989
	chlorogenic acid	$y=6.02 e +10x$	0.000001-0.0002	0.998
Flavonoids	kaempferol	$y=4.37 e +9x$	0.00001-0.0001	0.997
	epicatechin	$y=8.93 e +8x$	0.0001-0.005	0.999
	myricetin	$y=1.18 e +10x$	0.0000009-0.009	0.994
	rutin	$y=2.51 e +9x$	0.0000005-0.0005	0.990

Table S3. Determination range, calibration curve equation and regression coefficient of the analyzed minerals.

Mineral	Determination range of the calibration curve (µg/ml)	Calibration curve equation (y=ax+b)	Regression coefficient (R ²)
Cu	0,05-0,8	y=0,15098x+0,00007	0,99999
Mn	0,05-1,6	y=0,0708x+0,0006	0,9998
Fe	0,2-1,6	y=0,2381x+0,0062	0,9992
Zn	0,05-0,8	y=0,366x+0,0078	0,9984
Mg	0,05-0,8	y=1,1205x+0,058	0,9953
Ca	0,5-4,0	y= 0,0455x+0,0055	0,9995
Na	0,5-4,0	y=22,284+11,985	0,9982
K	2,0-20,0	y=4,6449x+9,2497	0,9891
P	0,4-2,0	y=0,0037x+0,0005	0,9995

a.



b.

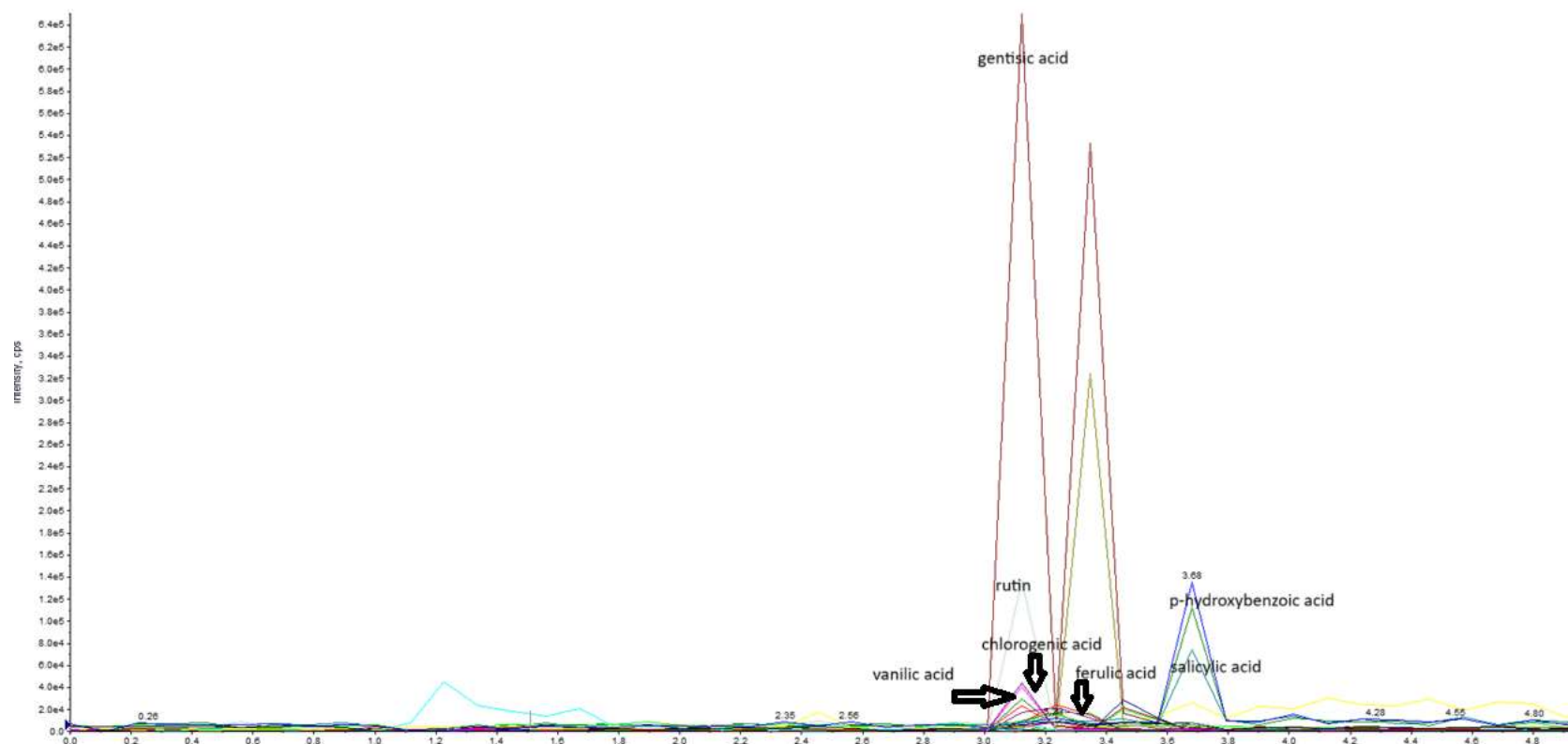


Figure S1. LC-MS/MS chromatogram of mint infusion (a) and fermented mint infusion (b).