

## SUPPLEMENTARY MATERIAL

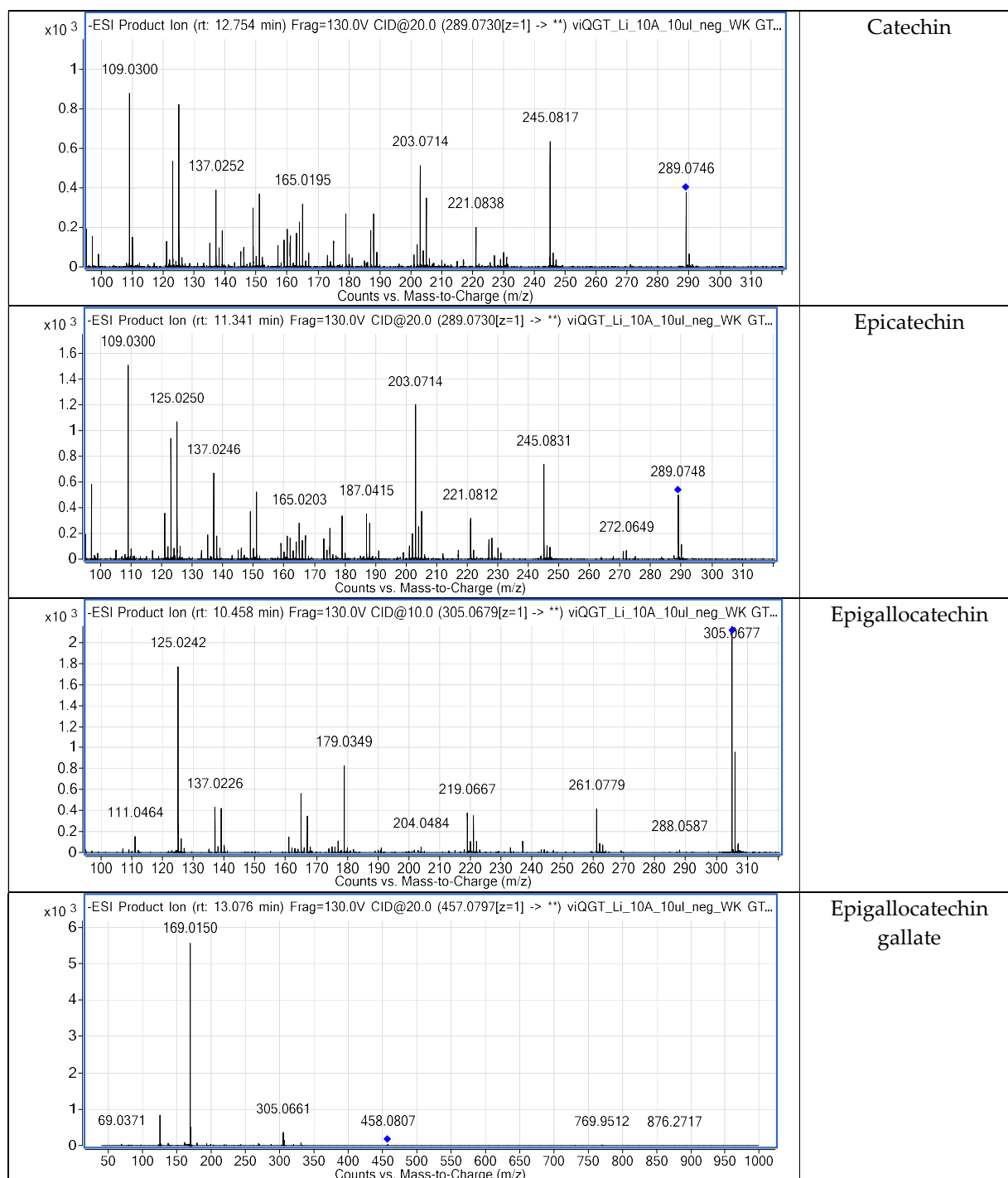
### Green tea quality evaluation based on its catechins and metals composition in combination with chemometric analysis

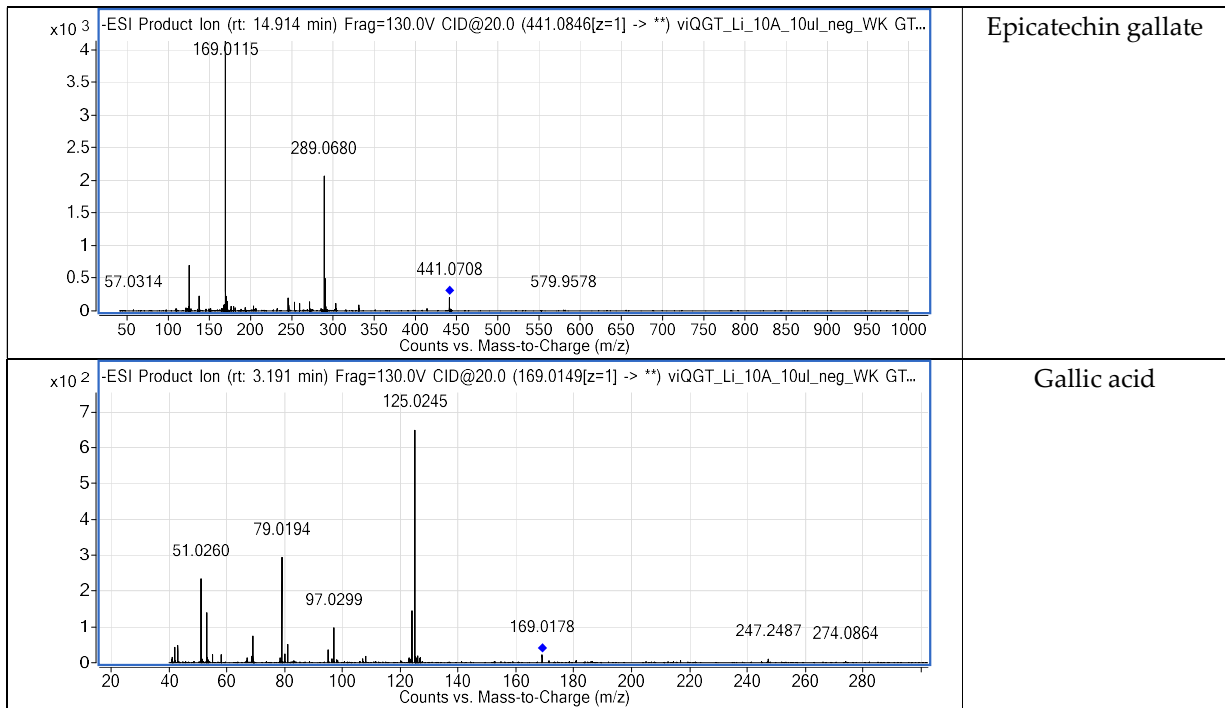
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**Table S1.** Accurate mass measurements and identification data of catechins in the studied samples.

<i>No</i>	<i>Ion (+/-)</i>	<i>Rt (min)</i>	<i>Molecular formula</i>	<i>m/z experimental</i>	<i>m/z calculated</i>	<i>Delta (ppm)</i>	<i>DBE</i>	<i>MS/MS fragments</i>	<i>Proposed compound</i>
1	(-)	12.6	C <sub>15</sub> H <sub>14</sub> O <sub>6</sub>	289.0717	289.0718	0.21	9.0	245, 203, 165	<b>Catechin</b>
2	(-)	11.4	C <sub>15</sub> H <sub>14</sub> O <sub>6</sub>	289.0721	289.0718	-1.17	9.0	245, 203, 163	<b>Epicatechin</b>
3	(-)	10.2	C <sub>15</sub> H <sub>14</sub> O <sub>7</sub>	305.0671	305.0667	-1.38	9.0	261, 219, 179, 167	<b>Epigallocatechin</b>
4	(-)	14.2	C <sub>22</sub> H <sub>18</sub> O <sub>11</sub>	457.0790	457.0776	-2.98	14.0	305, 169	<b>Epigallocatechin gallate</b>
5	(-)	15.1	C <sub>22</sub> H <sub>18</sub> O <sub>10</sub>	441.0841	441.0827	-3.12	14.0	289, 169	<b>Epicatechin gallate</b>
6	(-)	3.2	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	169.0150	169.0142	-4.43	5.0	125, 97	<b>Gallic acid</b>

**Figure S1.** Fragmentation spectra of all identified catechins and gallic acid obtained at the collision energy of 20V in the negative ionization mode.





## PCA Summary and Scores

**Dataset S1.** The raw data obtained from Principal Components Analysis.

*Table continues below*

	PC1	PC2	PC3	PC4	PC5
<b>Standard deviation</b>	2.662	2.22	1.566	1.346	1.168
<b>Proportion of Variance</b>	0.3374	0.2348	0.1167	0.08627	0.06498
<b>Cumulative Proportion</b>	0.3374	0.5722	0.6889	0.7752	0.8401

*Table continues below*

	PC6	PC7	PC8	PC9	PC10
<b>Standard deviation</b>	0.9327	0.8342	0.6271	0.6098	0.5015
<b>Proportion of Variance</b>	0.04142	0.03314	0.01873	0.01771	0.01198
<b>Cumulative Proportion</b>	0.8816	0.9147	0.9334	0.9511	0.9631

*Table continues below*

	PC11	PC12	PC13	PC14	PC15
<b>Standard deviation</b>	0.4155	0.3822	0.3613	0.268	0.2565
<b>Proportion of Variance</b>	0.00822	0.00696	0.00622	0.00342	0.00313

<b>Cumulative Proportion</b>	0.9713	0.9783	0.9845	0.9879	0.991
<i>Table continues below</i>					
	PC16	PC17	PC18	PC19	PC20
<b>Standard deviation</b>	0.2399	0.211	0.1876	0.1622	0.1262
<b>Proportion of Variance</b>	0.00274	0.00212	0.00168	0.00125	0.00076
<b>Cumulative Proportion</b>	0.9938	0.9959	0.9976	0.9988	0.9996
	PC21				
<b>Standard deviation</b>	0.09146				
<b>Proportion of Variance</b>	4e-04				
<b>Cumulative Proportion</b>	1				

*Table continues below*

PC1	PC2	PC3	PC4	PC5	PC6	PC7
-1.208	3.567	-0.4406	2.068	2.159	0.8809	-0.005901
-1.426	3.481	0.1338	1.997	0.7142	2.46	0.4478
-1.454	3.473	0.2349	1.572	1.61	1.068	-0.423
-1.116	3.285	-0.7634	1.497	2.767	0.5978	-0.3718
-1.419	3.058	-0.1135	1.895	1.734	0.5771	-0.7232
-1.399	3.517	-0.7839	1.176	0.6647	1.292	-0.05869
-1.395	3.803	-0.4604	1.329	0.7515	1.074	-0.04702
-1.198	3.474	0.1575	1.453	2.509	0.5237	0.03556
-1.585	3.205	-0.4896	1.49	0.4394	1.87	-0.0455
4.961	-1.108	-1.503	0.7523	-0.2467	0.4477	0.6496
5.818	-0.2463	-1.157	1.018	0.5381	-0.8099	0.2163
4.816	-0.9127	-1.696	0.2342	0.2332	-0.4638	-0.1152
4.415	-0.2519	-0.8184	-0.1008	-0.1015	-0.3296	0.4588
5.126	-0.3736	-0.7052	0.7357	-0.01584	-1.024	-0.155
5.669	-0.6722	-1.135	0.9683	-0.1955	-0.2981	0.3957
5.089	-1.099	-1.416	0.882	0.006128	0.3551	0.04222
5.261	-0.334	-1.648	0.36	0.03929	-0.3362	0.6179
5.103	-0.3943	-0.9838	0.5279	0.001402	-0.3324	0.8439
4.036	0.06305	-0.7865	-0.3261	0.1085	0.06531	-0.08024
3.383	-0.182	-1.348	-0.08731	-0.3863	0.2882	-0.5469
4.149	0.3915	-0.3539	-0.483	0.2489	-0.7719	-0.5958
2.917	0.6833	-1.487	-1.187	-0.9864	1.174	-0.04531
3.615	0.3662	-1.364	-0.8602	-0.7114	0.3999	-0.3125
3.931	0.1429	-1.518	-0.8177	-0.6489	0.7844	0.2089
3.729	0.2901	-0.7839	-0.305	0.00723	-0.06093	-0.2312
4.211	0.1179	-0.6834	-0.2574	0.5185	-0.399	-0.01262
3.65	0.1876	-1.336	-0.3645	-0.1508	0.6011	-0.61
-0.7981	3.742	0.3759	0.2708	-0.1586	-1.027	-0.7379
-0.4644	3.646	0.89	-0.3103	-0.5916	-1.226	0.4747
-0.6029	3.58	1.317	-0.01376	-3.61	-0.5962	0.09034
-0.9018	3.375	1.569	0.35	-3.422	-0.3616	0.5507
-1.169	3.083	0.972	0.5147	-2.894	-0.3146	-0.2675
-0.7759	2.769	0.7461	-0.2029	-3.312	0.5706	-0.1031

-0.7349	3.994	0.6206	1.098	-1.694	-0.1683	-0.4787
-0.469	3.535	1.092	0.6531	-2.29	-0.459	-0.08084
-0.726	2.939	0.7558	-0.4746	-1.876	-1.634	-0.3121
-1.207	1.376	-0.0236	-2.089	1.926	0.1665	1.686
-1.728	1.23	0.09168	-2.068	1.046	-0.8748	0.9329
-1.805	1.95	-0.7711	-2.597	0.692	-0.7782	0.3566
-1.331	1.459	0.03994	-3.28	0.6333	-0.5535	1.371
-0.981	0.9928	-0.2932	-2.727	0.2625	-0.3084	0.9029
-1.528	1.292	-0.157	-2.448	1.483	-1.524	0.6542
-1.61	0.9778	-0.6302	-2.258	1.812	-1.326	0.1352
-1.742	2.208	0.2927	-2.077	0.1821	0.517	1.669
-1.533	1.582	0.1207	-2.651	1.163	-1.516	0.6348
-2.639	-2.304	0.1249	2.429	0.63	-1.639	1.015
-2.459	-2.809	-1.111	1.54	0.1797	-1.071	0.5001
-2.573	-2.672	-0.6589	1.889	-0.8579	-0.03674	1.632
-2.834	-3.226	-0.4423	1.85	-1.452	-0.2199	1.471
-2.926	-2.215	-0.1052	2.372	-0.02292	-0.8741	0.7179
-2.443	-2.245	-0.641	2.525	0.3634	-0.8641	1.159
-2.378	-2.667	-0.2378	1.622	-0.7938	-0.3073	1.535
-2.452	-2.529	-0.5951	1.885	0.03575	-1.049	1.233
-2.842	-2.998	-0.8999	2.381	0.0174	-1.06	0.2374
-1.7	-1.956	-0.6263	0.07483	-0.2251	-0.03504	-1.774
-1.555	-0.1897	-0.2766	-0.1955	0.8031	-1.589	-1.632
-1.94	-1.584	-0.7439	-0.07026	-0.7471	0.5417	-1.718
-1.939	-1.05	-0.6401	-0.5017	-0.02944	-0.5549	-1.273
-1.978	-1.045	-0.4493	0.1572	0.4665	-1.354	-1.942
-1.654	-1.363	-0.6936	-0.1993	0.4713	-0.7208	-1.505
-1.561	-1.46	-0.5613	-0.3783	-0.4091	0.1367	-1.349
-1.918	-1.247	-0.6493	0.1739	-0.2501	0.1167	-1.648
-2.08	-0.6508	-0.3124	-0.4138	-0.008613	-1.322	-1.644
1.449	-1.539	3.831	-0.03676	0.6951	-0.08344	-0.03675
1.585	-2.116	4.036	-0.2707	-0.1091	1.209	0.2986
1.873	-1.975	3.071	-0.3527	1.013	0.4391	-0.6476
0.8353	-1.349	3.88	0.4334	1.038	-1.13	-0.8257
1.034	-2.129	4.353	0.3913	0.4804	0.2776	-0.55
1.876	-1.79	4.544	-0.3872	0.2099	1.228	0.9685

1.502	-1.847	4.303	-0.4946	0.191	0.6695	0.4962
1.098	-1.139	3.764	-0.0181	0.8057	-0.2438	-0.6657
1.524	-2.512	3.55	-0.2523	0.3248	0.844	-0.3834
-2.395	-2.411	-1.55	-1.392	-0.582	1.313	-0.1739
-2.196	-2.713	-1.419	-0.7367	-0.2175	1.566	-0.3535
-2.244	-2.351	-0.9756	-1.207	-0.5542	1.105	-0.3362
-2.076	-2.256	-0.8126	-1.275	-0.3986	1.275	0.1479
-2.256	-2.077	-1.021	-1.268	-0.05443	1.031	0.2425
-2.187	-1.924	-0.5968	-1.15	-0.1849	0.6769	0.01097
-2.231	-2.532	-1.143	-1.29	-0.4351	0.9092	-0.5241
-2.747	-2.267	-1.223	-1.215	-0.7955	1.196	-0.2139
-2.15	-2.126	-0.8322	-1.475	-0.5571	1.401	0.5153

*Table continues below*

PC8	PC9	PC10	PC11	PC12	PC13	PC14
-0.07301	-0.4367	-0.2642	0.5096	-0.2555	0.2562	-0.1207
0.4684	-0.2946	0.9281	0.2465	0.1711	-0.07152	0.2705
0.2197	0.6154	0.664	-0.2237	0.1142	0.4312	0.1739
-0.3738	0.06452	-0.6483	0.02645	-0.5707	0.05456	-0.08758
0.6337	-0.08475	0.5282	-0.09988	0.0341	0.1518	0.1372
0.3409	-0.4098	0.3699	-0.3363	0.4911	-0.5861	-0.2674
0.3255	0.2327	0.1438	-0.2828	0.3803	0.02869	-0.4312
-0.6787	0.004656	-0.6727	0.1896	-0.4085	0.1274	-0.2739
-0.2165	0.3182	0.4933	-0.1734	0.02717	-0.5231	-0.1307
0.4477	-0.295	-0.5926	1.182	0.4392	-0.4422	-0.531
0.5695	-0.4013	0.4324	-0.155	0.4581	0.3847	0.7249
0.9326	-0.1025	-0.2503	-0.2865	0.4748	-0.08516	-0.5681
1.017	-1.004	0.4319	-0.4762	-0.5125	-0.7835	0.2143
0.8617	-0.4408	0.01345	0.007577	0.327	0.00624	-0.01169
0.05145	-0.7453	-0.2202	0.05212	0.3713	0.1716	-0.1218
-0.1097	-0.754	-0.2714	0.8172	-0.1574	-0.003711	0.09778
0.6882	-0.4449	-0.1205	-0.3691	0.0535	-0.4438	-0.1269
0.3854	-1.138	0.1975	-0.0509	0.1944	0.05809	-0.09903
-1.206	-0.1164	0.7606	-0.4549	-0.1955	0.3034	0.08448
0.4311	0.8988	0.4575	0.1391	-0.423	0.4918	0.05052
-1.217	0.7163	0.7552	-0.05105	-0.3965	0.6244	0.1927
0.3722	1.962	-0.905	0.3445	-0.2478	-0.53	-0.2329

-0.3337	1.305	0.5085	-0.4862	-0.1186	0.04461	0.1125
-0.6485	0.8228	-0.2835	-0.2462	-0.008126	-0.01625	-0.04163
-0.9812	0.08467	-0.02406	-0.1498	-0.3934	0.1116	-0.1707
-1.217	0.03783	0.424	-0.3104	-0.7016	0.4604	0.2473
-0.576	1.264	-0.4327	0.3649	0.1878	0.1357	0.04321
0.7415	0.6805	-0.7653	-0.3167	-0.2912	-0.372	0.5157
-0.1865	-0.5104	-0.7354	-0.5572	-0.4669	-0.3996	-0.2302
-0.6279	-0.5635	0.02822	0.37	-0.08094	0.7174	-0.784
-0.1777	-0.9915	0.2974	0.2148	0.09479	-0.359	0.1238
0.2185	-0.7286	0.6247	0.5719	-0.5029	0.4269	0.01415
0.6638	1.463	-0.2088	0.1851	0.6321	0.611	0.2399
-0.1193	0.1127	-1.58	-0.4883	0.3723	0.1726	0.5328
-0.5745	-0.8697	-0.4771	-0.2462	-0.3049	-0.569	0.5185
0.451	0.1431	0.01044	-0.1372	-0.8924	0.08573	-0.3046
-0.312	-0.6609	-0.8451	0.06329	0.02078	0.5737	0.3888
0.272	-0.595	-0.02699	0.6693	0.4297	0.43	0.09076
0.9172	0.8938	0.2663	-0.1265	0.1613	-0.4794	-0.1151
-0.7268	0.4436	0.6528	-0.5361	0.2123	-0.4173	-0.03364
-1.051	0.2094	0.02632	0.6906	0.5858	-0.2788	0.1446
-0.2486	0.4419	-0.2188	0.7842	-0.3914	-0.2832	-0.1223
0.153	0.01983	-0.4679	0.4359	-0.2296	0.1131	-0.04621
0.04484	-0.5021	0.5869	0.01422	0.9529	0.3237	0.0602
0.7574	0.3232	0.3595	-0.38	0.5556	0.3779	-0.09137
0.1914	0.01145	0.5982	0.639	-0.6525	0.3096	-0.07231
0.949	0.8873	-0.3265	0.01931	0.01972	0.4092	0.399
-0.869	0.6697	-0.6688	-0.7709	0.4788	-0.4068	-0.2816
-0.1376	0.6644	0.1587	-0.02474	0.2314	0.02138	0.03686
-0.7374	0.4914	0.4168	-0.2779	-0.2863	0.2054	-0.412
-0.9696	-0.1981	-0.4245	-0.4469	0.4405	-0.2	0.07189
-0.3242	0.2615	0.9797	0.1689	0.2173	-0.09438	0.02954
0.1751	0.8985	-0.0304	0.3084	-0.3171	-0.2725	0.05203
0.3345	0.2004	-0.4945	0.0444	-0.1734	0.1309	0.4273
-0.5238	-0.5505	-0.1726	0.8941	0.6578	0.3654	0.2188
-0.7738	-0.2249	0.4789	-0.1428	0.2417	-0.3157	-0.2807
-0.3479	0.2606	0.263	0.5051	0.3396	-0.5073	0.2677
0.8257	-0.1162	0.4079	-0.5346	0.05974	-0.1959	-0.1726



0.05583	-0.3497	0.01016	-0.2151	0.3916	-0.08124	0.1568
-0.07345	-0.9207	-0.5641	-0.7399	0.4073	-0.1322	0.06632
-0.6835	-0.02542	0.3653	0.4738	0.07724	-0.7578	0.2425
-0.4118	0.105	0.6054	0.829	0.1736	-0.1665	-0.2277
-0.2449	-0.01396	0.5207	-0.03187	0.2499	-0.2928	-0.2735
-0.4454	-0.2941	-0.1618	0.5006	0.005884	-0.4344	0.01727
-0.7852	-0.09914	-0.18	-0.1639	0.6204	0.1921	0.03551
-1.272	-0.02707	-0.43	-0.2969	0.1844	-0.2031	0.2089
0.8741	0.02499	-0.5421	0.1964	-0.2229	0.09388	-0.1773
0.4707	0.05451	-0.3569	-0.5132	0.3398	0.7907	-0.5985
0.6044	0.3139	0.3974	0.4572	-0.5774	-0.8192	0.2275
0.6254	0.4405	-0.03393	0.1131	-0.1112	-0.03053	0.1451
1.087	0.5538	0.5602	0.1215	0.05588	-0.09196	0.1202
-0.4028	-0.002958	-0.06084	-0.5936	-0.09436	0.09563	-0.1862
0.6074	-0.4913	-0.7547	0.2418	-0.1097	0.1083	0.2458
-0.3399	-0.2302	-0.9177	0.1368	-0.2545	0.1173	-0.2704
0.5124	-0.1298	0.1778	-0.208	-0.1816	0.2586	-0.1232
-0.4814	-0.4445	0.1823	-0.3832	-0.5009	0.105	0.1172
-0.000576	-0.9752	-0.3093	0.08595	-0.5074	0.1904	0.04467
0.2858	-0.6398	0.3307	-0.4579	-0.6306	-0.205	0.008531
0.6201	-0.07855	-0.05079	-0.3739	-0.2702	0.4525	0.2223
1.18	-0.1194	-0.1972	-0.2567	-0.2292	0.2107	-0.3479
0.118	-0.8736	0.2741	-0.2418	-0.2659	0.1197	0.0262
PC15	PC16	PC17	PC18	PC19	PC20	PC21
-0.08901	-0.3909	0.1151	-0.07955	-0.03116	-0.1228	-0.06373
-0.01418	0.4132	0.05759	0.1588	-0.08937	-0.1944	0.04602
0.3533	0.2374	-0.4119	0.05118	0.1848	0.07995	-0.0261
-0.06858	-0.3801	-0.111	0.0477	0.07232	0.115	0.006195
-0.3442	-0.07544	-0.0949	-0.2023	0.09652	0.1655	0.05539
-0.4015	-0.104	0.2412	-0.1882	0.00832	0.06566	0.1479
-0.1837	-0.3173	0.04666	-0.0899	-0.2093	0.06785	0.03186
0.6475	0.1455	-0.1826	0.1946	-0.1781	0.325	-0.0108
0.3938	0.02108	0.0379	-0.1264	0.1902	-0.09867	-0.01547
-0.1452	0.02574	-0.567	-0.4155	-0.04721	-0.01461	-0.3427
0.0135	-0.04435	0.09204	-0.04228	0.004947	0.1574	-0.03373
0.07155	-0.0608	-0.0329	-0.1196	0.35	0.02678	0.1792

-0.3441	-0.2029	-0.1642	0.2049	0.3234	0.2744	-0.1748
0.2103	0.05286	-0.4526	0.5472	-0.3521	-0.17	0.2886
0.5906	0.2	0.0503	0.04168	-0.4123	0.01973	0.06937
-0.2239	-0.08943	0.3134	0.008389	0.1526	0.1383	-0.03623
-0.03003	-0.1148	0.04532	0.2396	-0.2667	0.09097	-0.05734
0.4644	-0.1038	-0.1635	-0.2367	0.2183	-0.2191	0.1155
-0.07664	-0.008528	-0.0651	-0.1874	0.03351	-0.2053	-0.05467
0.07615	0.0412	0.5191	0.09946	0.01219	-0.04048	0.008012
0.007557	0.1866	0.162	-0.5256	-0.1138	0.1446	0.0604
0.04399	0.09344	0.02454	0.3434	0.1578	-0.1734	0.02168
-0.02732	0.1423	0.4505	0.3079	0.1147	0.2471	-0.09547
-0.3926	0.3125	0.151	-0.5727	-0.1961	-0.1443	0.01272
-0.3204	0.1899	-0.3491	-0.0155	0.1787	-0.2871	-0.1029
0.1438	-0.1575	-0.2091	0.1616	-0.2661	-0.09873	-0.1029
-0.002867	-0.07565	0.5261	0.1878	0.1921	0.1401	0.1556
-0.2647	0.6035	-0.2615	-0.06022	-0.05687	-0.04925	-0.001423
-0.03896	0.8098	0.03998	0.05308	0.4288	-0.07203	0.07307
-0.3019	-0.5598	0.08222	0.2979	-0.09938	0.1297	0.01774
0.434	0.3333	0.1819	-0.1538	0.08743	0.03939	0.07029
-0.07615	-0.2611	0.1077	-0.01593	0.09034	-0.09383	-0.0568
0.01399	0.1169	-0.5519	0.1389	0.02771	0.1222	-0.0244
-0.1078	-0.04447	0.03606	0.03389	-0.2052	-0.1471	-0.1868
-0.08007	-0.357	0.1179	-0.2181	-0.2362	-0.04571	0.1358
0.09816	-0.248	-0.2043	-0.1087	0.162	0.09663	0.003184
-0.07535	0.02807	0.1287	0.4048	0.04093	-0.1757	-0.08393
0.154	0.3032	0.1717	-0.04425	0.2004	-0.02205	0.01307
0.009679	-0.6339	0.2305	-0.1479	-0.1846	-0.215	-0.03705
0.3713	-0.0836	-0.2335	-0.08821	0.01534	0.1064	-0.01757
-0.3386	-0.177	-0.2145	-0.1483	-0.04556	0.1292	0.1404
0.2441	-0.0344	-0.03577	-0.114	-0.08085	0.0572	0.1101
0.02065	-0.09751	0.06329	-0.1093	0.1907	-0.1235	0.05755
-0.04963	0.01045	0.3624	0.1556	-0.1186	-0.147	-0.1621
-0.1163	0.08865	-0.1527	0.005171	-0.0664	0.08113	-0.01296
-0.2937	0.2965	0.01774	0.1218	-0.041	-0.08786	0.06582
-0.2289	-0.3647	-0.1277	0.01693	0.1172	-0.04502	0.05549
0.09115	0.0146	0.1377	0.1033	0.0005425	0.07176	-0.03084

0.5071	-0.1904	-0.1299	-0.07394	0.2029	0.04561	-0.07713
0.2636	0.2288	0.02889	0.04249	-0.1283	-0.135	-0.02432
-0.1747	0.1081	0.2449	-0.005784	0.004333	-0.005285	-0.06107
-0.5684	0.1156	-0.1649	0.02201	0.104	0.02299	0.08866
-0.3668	-0.005542	0.03421	0.05683	-0.148	0.1033	0.02271
0.4092	-0.4037	0.1429	-0.2511	0.08813	-0.1012	0.02494
-0.09018	0.1345	-0.06561	0.1363	0.127	0.1069	0.0801
-0.2033	0.0789	-0.03994	0.3417	6.91e-05	-0.01034	-0.1336
0.35	-0.01214	-0.04844	-0.07398	-0.0229	-0.1204	-0.00462
-0.07539	-0.1383	0.1433	0.1338	-0.05425	-0.1598	-0.0294
-0.0003466	0.003575	0.1137	-0.1749	0.1129	0.06731	-0.126
-0.1358	0.004602	0.1804	0.1246	-0.01304	0.01845	0.0444
0.4242	-0.1128	-0.06503	0.06254	-0.05104	-0.05522	0.0639
-0.1066	0.1128	0.0347	0.209	0.06262	-0.2071	-0.07565
0.3839	0.06923	0.01485	0.03149	-0.1411	0.1646	-0.1348
-0.328	0.2749	-0.01769	0.06908	-0.1096	0.1421	-0.007173
-0.1057	0.02894	-0.04196	-0.1916	0.05759	0.1278	0.02242
-0.1879	-0.4341	-0.3431	0.1411	0.1636	-0.1206	0.1101
0.08871	0.3088	0.3164	-0.2612	-0.1706	0.0417	-0.04964
0.1883	-0.005725	0.09259	-0.06379	0.1351	-0.08599	-0.03079
0.1506	-0.1479	0.2034	0.1719	-0.05275	-0.04138	-0.03354
0.2248	-0.0976	0.03585	-0.009834	-0.1447	0.1421	-0.03062
-0.2877	0.06507	-0.01801	-0.04435	-0.05199	-0.1071	-0.04396
0.004411	-0.3413	-0.0314	0.03393	0.2152	-0.1279	0.07976
0.325	-0.08489	0.09651	-0.0516	0.1441	0.07363	-0.051
-0.3302	0.1569	-0.05986	-0.06465	-0.2624	0.04916	0.05851
-0.3529	0.1854	-0.1964	-0.06276	-0.1587	0.03637	0.1139
0.1345	-0.06446	-0.2466	0.000851	-0.02571	0.04672	-0.03479
0.06192	0.1496	0.08871	0.0329	0.1088	0.03769	-0.03454
-0.04095	0.119	-0.04703	-0.04257	-0.2533	0.06859	0.04304
0.02167	-0.1902	-0.3168	-0.1268	-0.05514	0.0517	0.01131
0.09085	0.2777	0.1335	-0.1795	-0.1482	-0.02884	0.003416
-0.09118	0.1269	0.003111	0.1528	0.1105	0.06066	0.005165

**PCA loadings***Table continues below*

	PC1	PC2	PC3	PC4	PC5	PC6
<b>C</b>	-0.1225	0.1802	-0.02789	0.572	-0.06354	0.153
<b>EC</b>	-0.1722	-0.2174	0.2006	0.3945	-0.0381	0.2851
<b>EGC</b>	-0.0992	-0.3411	0.1276	0.08966	-0.3458	-0.1236
<b>ECG</b>	-0.06523	0.3303	-0.1095	0.1039	0.3518	0.3855
<b>EGCG</b>	-0.0861	0.01024	0.03225	-0.2691	-0.6305	0.4338
<b>GA</b>	0.08276	0.3676	-0.04787	0.09691	-0.3891	-0.0497
<b>K</b>	-0.2948	-0.03944	-0.239	-0.1335	0.1446	0.07328
<b>Ca</b>	0.279	0.2148	0.1233	0.1046	-0.2552	-0.1036
<b>Mg</b>	0.02214	0.2608	0.367	0.07261	0.1823	0.1029
<b>Na</b>	-0.009291	-0.337	0.2523	0.3345	-0.02702	0.111
<b>Fe</b>	0.352	-0.06376	-0.002897	0.08125	0.0157	-0.0009811
<b>Mn</b>	0.3647	-0.04493	-0.001845	-0.01035	-0.05789	0.07126
<b>Cu</b>	0.2459	0.2577	-0.1899	0.2374	-0.06207	0.1352
<b>Zn</b>	-0.1477	-0.0941	-0.4649	0.02793	-0.03017	0.3501
<b>Pb</b>	0.3356	-0.05005	-0.2194	0.06675	-0.01294	-0.07085
<b>Cd</b>	0.3145	-0.01163	-0.2916	0.08309	0.0297	-0.07283
<b>Ni</b>	-0.07371	-0.1924	-0.2333	0.4279	-0.01676	-0.314
<b>Cr</b>	0.2335	-0.04888	0.4393	-0.05398	0.2147	0.1375
<b>TPC</b>	-0.2028	0.3063	0.09774	0.0601	-0.1431	-0.3316
<b>DPPH</b>	-0.2001	0.3104	0.1196	0.076	-0.06573	0.01159
<b>ABTS</b>	-0.2643	0.1293	-0.006854	0.002457	0.03929	-0.3435

*Table continues below*

	PC7	PC8	PC9	PC10	PC11	PC12
<b>C</b>	-0.2614	0.01861	-0.2109	0.1018	-0.04301	0.1451
<b>EC</b>	-0.07752	-0.01537	-0.1606	0.2669	0.4172	-0.07096
<b>EGC</b>	-0.09184	0.06957	-0.1666	-0.479	-0.4096	0.08276
<b>ECG</b>	0.0189	0.01561	0.03028	-0.07068	-0.5795	0.2102
<b>EGCG</b>	0.2534	0.1778	0.1008	0.362	-0.1373	0.2286
<b>GA</b>	-0.01315	-0.03515	-0.1355	-0.08567	0.07963	-0.1916
<b>K</b>	0.2448	0.09521	-0.4467	0.03868	-0.07302	-0.4699
<b>Ca</b>	0.09222	0.07795	0.1738	-0.2315	-0.000938	-0.3244
<b>Mg</b>	0.5272	0.3362	-0.01864	-0.2003	0.1717	-0.02493
<b>Na</b>	0.07407	0.09227	0.1611	-0.06976	-0.2531	-0.2763
<b>Fe</b>	-0.2114	0.1505	-0.1312	0.03705	0.0185	0.247

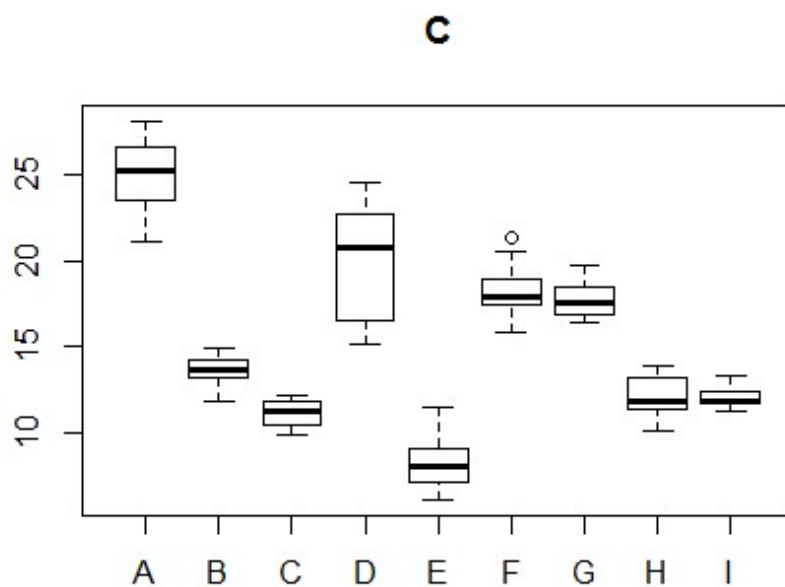
<b>Mn</b>	-0.1528	0.1108	-0.1115	-0.001983	-0.01682	-0.1454
<b>Cu</b>	-0.004337	0.1253	-0.08248	-0.003911	-0.04575	-0.1902
<b>Zn</b>	-0.08587	0.2028	0.3378	-0.5288	0.3854	0.09725
<b>Pb</b>	0.01122	-0.07694	0.1651	0.1799	-0.07244	-0.03633
<b>Cd</b>	0.2209	0.09434	-0.09755	0.1111	0.04522	0.1419
<b>Ni</b>	0.5152	-0.05419	0.2605	0.1302	-0.0648	0.169
<b>Cr</b>	-0.004708	0.07559	0.1432	-0.03426	0.08365	0.191
<b>TPC</b>	0.06599	-0.03327	-0.2615	-0.1759	0.1426	0.4177
<b>DPPH</b>	-0.1076	-0.4417	0.4438	0.04685	-0.02398	-0.1857
<b>ABTS</b>	-0.3079	0.7165	0.2746	0.2618	-0.07569	-0.0877

*Table continues below*

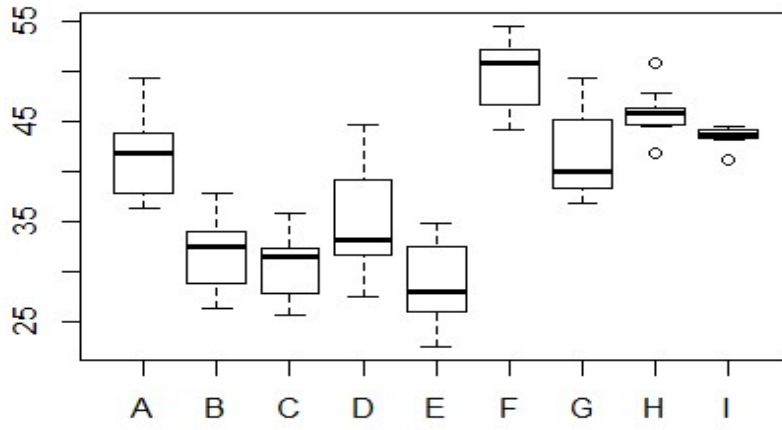
	PC13	PC14	PC15	PC16	PC17	PC18
<b>C</b>	-0.4978	0.2953	-0.01989	0.002446	0.1933	-0.259
<b>EC</b>	0.5425	0.012	0.1397	0.07777	-0.04616	0.1062
<b>EGC</b>	0.2018	0.1478	0.4153	-0.1319	-0.002578	-0.1124
<b>ECG</b>	0.3547	-0.03675	-0.09486	0.02369	0.01429	0.1416
<b>EGCG</b>	-0.1085	-0.04927	0.03444	0.07668	0.03549	-0.00485
<b>GA</b>	0.2276	-0.1173	-0.2795	-0.6241	0.1449	0.09083
<b>K</b>	-0.1688	-0.254	0.2392	-0.05486	0.3079	-0.007512
<b>Ca</b>	0.003448	0.1751	-0.08237	0.3261	0.003688	0.008235
<b>Mg</b>	-0.06997	0.2823	0.2295	-0.006642	0.04278	0.1697
<b>Na</b>	-0.1318	-0.4398	-0.3205	0.1845	0.02819	0.05555
<b>Fe</b>	-0.2533	-0.2115	0.272	-0.1428	-0.02364	0.6605
<b>Mn</b>	-0.03211	-0.1454	0.03667	0.1545	0.05949	0.02855
<b>Cu</b>	0.04323	-0.1873	0.1129	0.04606	-0.3506	-0.1655
<b>Zn</b>	-0.0409	-0.1051	0.0004101	0.005573	0.121	0.001402
<b>Pb</b>	0.2412	0.1578	0.1518	0.1812	0.714	0.01654
<b>Cd</b>	0.106	-0.1644	0.2684	0.04308	-0.2613	-0.4103
<b>Ni</b>	-0.05308	-0.0389	-0.04774	-0.2357	-0.01742	0.1184
<b>Cr</b>	-0.03	-0.3037	0.04804	-0.3564	0.2819	-0.4451
<b>TPC</b>	0.09758	-0.437	-0.06046	0.4141	0.1988	-0.001979
<b>DPPH</b>	-0.1065	-0.2336	0.5497	-0.01277	-0.03683	0.04157
<b>ABTS</b>	0.1193	-0.04281	0.0795	-0.04321	0.01657	-0.04151
	PC19	PC20	PC21			
<b>C</b>	-0.04701	-0.08516	-0.03717			
<b>EC</b>	0.1239	-0.1123	-0.02736			
<b>EGC</b>	0.01303	0.06506	-0.00411			

ECG	0.0739	-0.1814	-0.09797
EGCG	0.05058	0.00443	0.00146
GA	-0.2322	-0.07448	-0.01983
K	0.2067	-0.1509	0.02553
Ca	0.4325	-0.4821	0.08442
Mg	-0.295	0.169	-0.05111
Na	-0.3652	0.0007018	0.1666
Fe	0.08083	-0.1646	0.2104
Mn	-0.02782	0.1237	-0.848
Cu	0.2599	0.6007	0.2594
Zn	-0.01152	-0.02222	-0.02562
Pb	-0.1419	0.2097	0.2043
Cd	-0.3969	-0.4387	0.04771
Ni	0.3058	0.05551	-0.2492
Cr	0.3289	-0.04249	0.03531
TPC	0.02707	0.07662	-0.01014
DPPH	-0.1219	-0.04231	-0.1005
ABTS	-0.01532	-0.03106	-0.02899

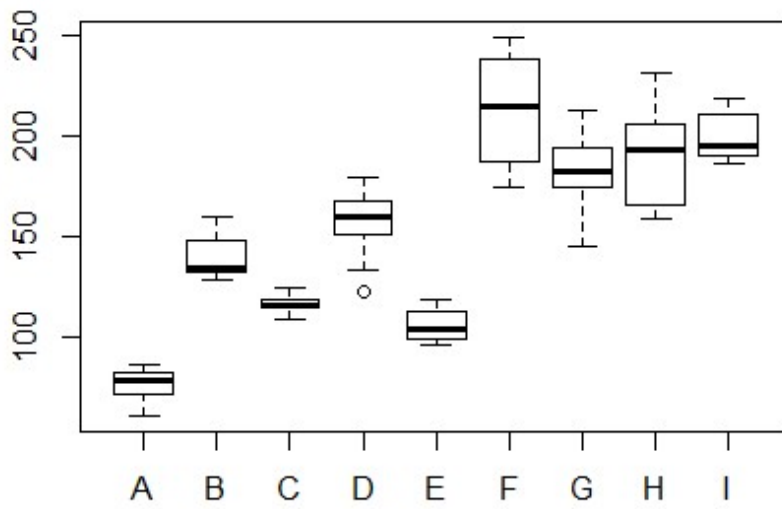
Figure S2. Statistical significance of each parameter, separately.



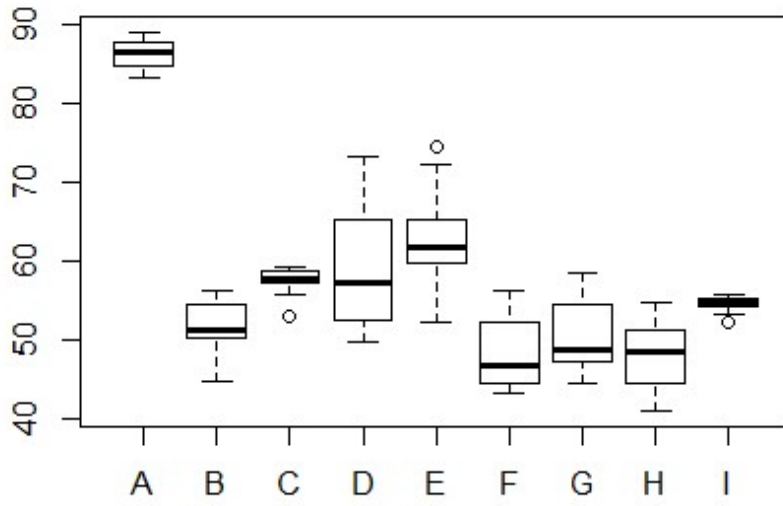
### EC



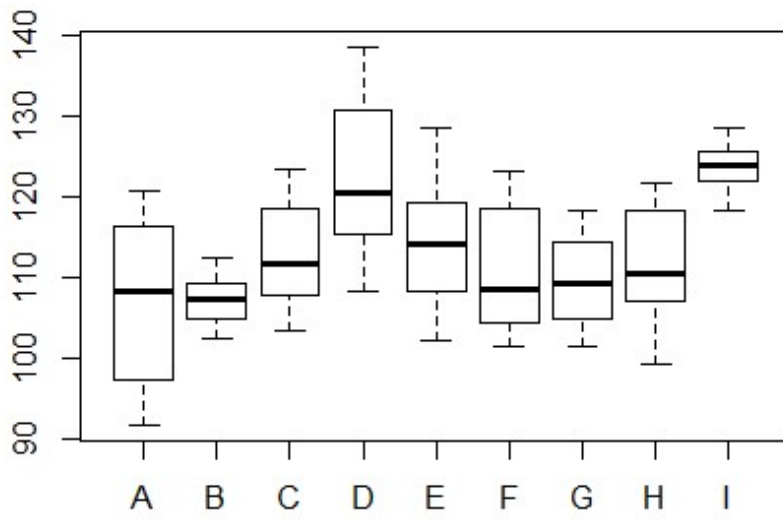
### EGC



### ECG

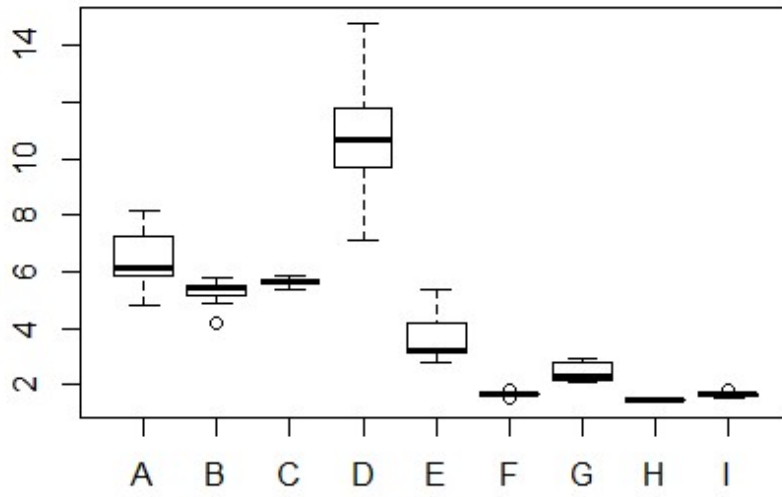


### EGCG

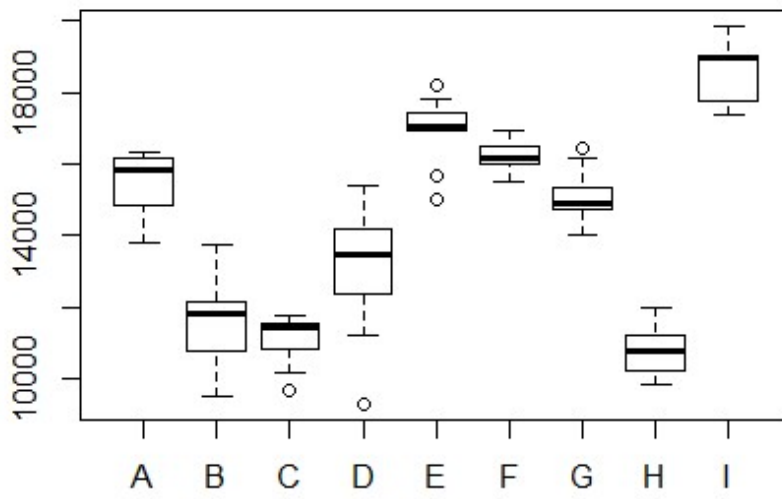




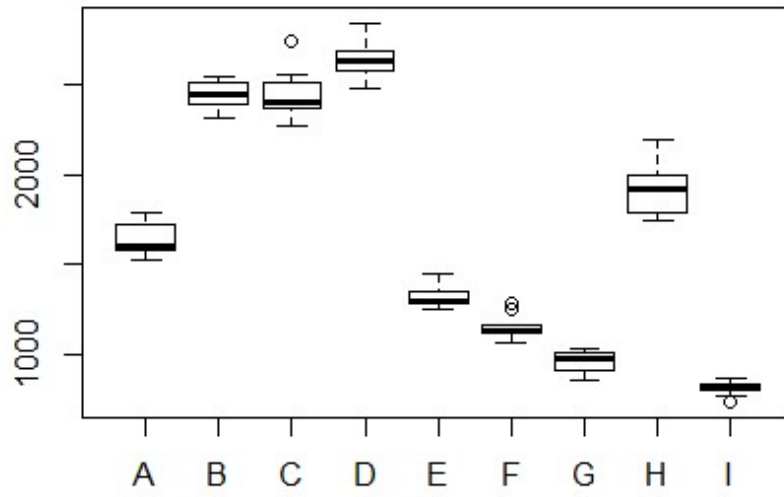
### GA



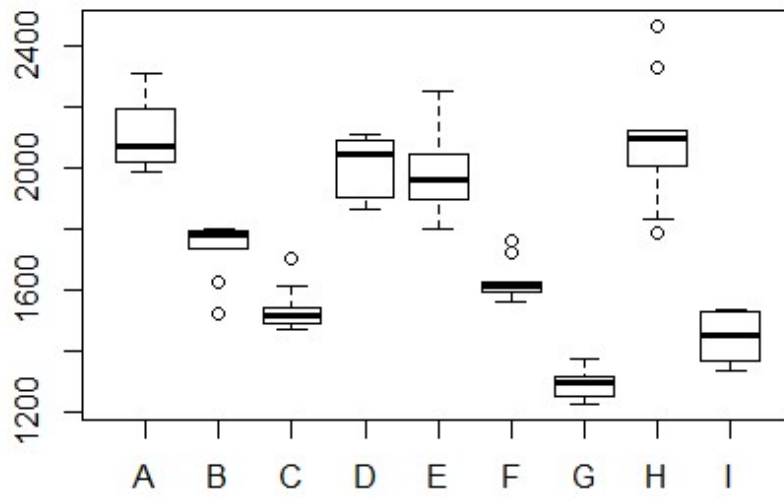
### K



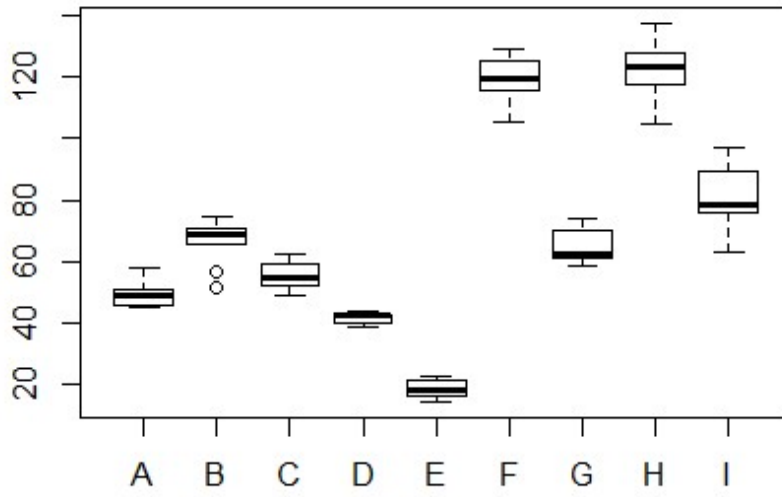
### Ca



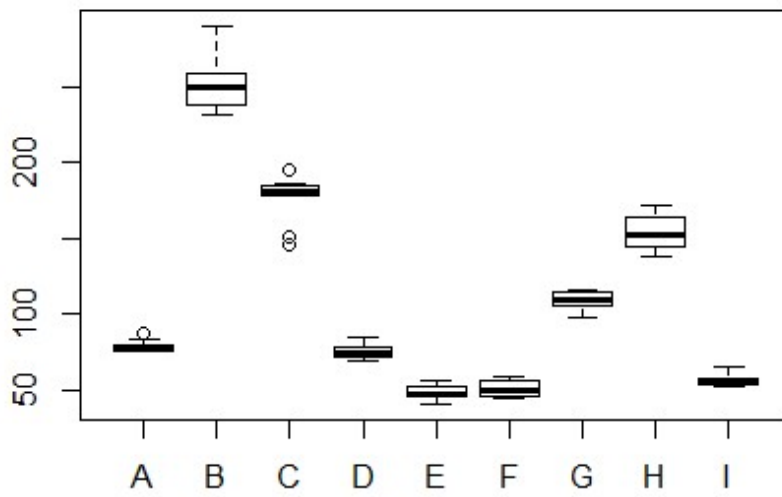
### Mg



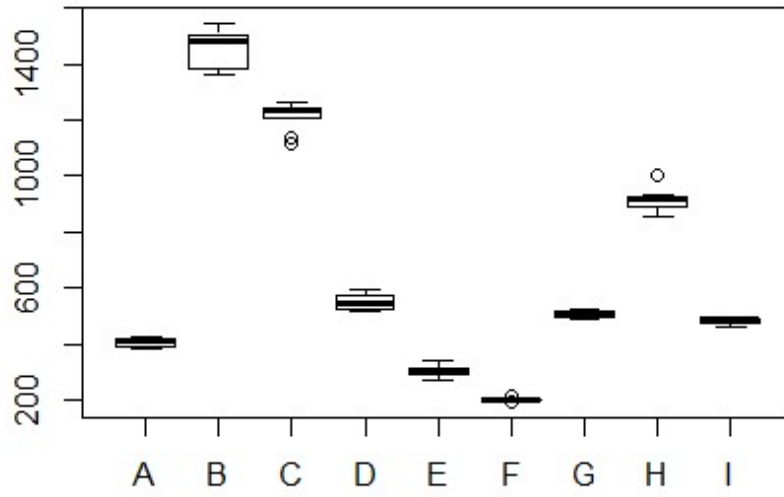
### Na



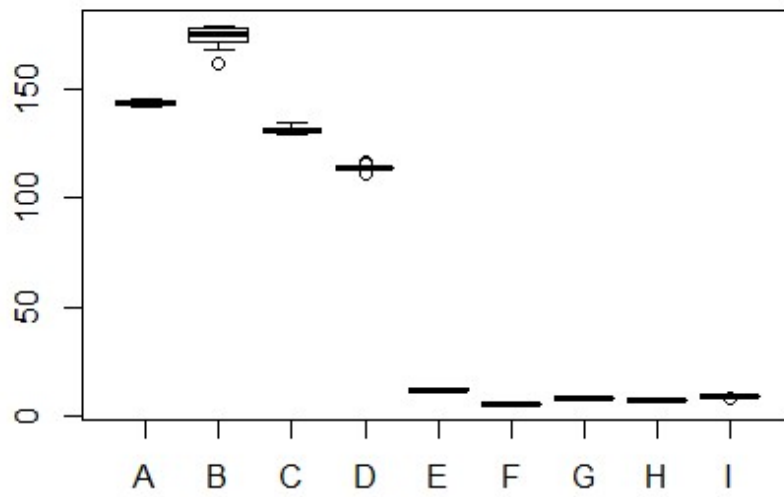
### Fe



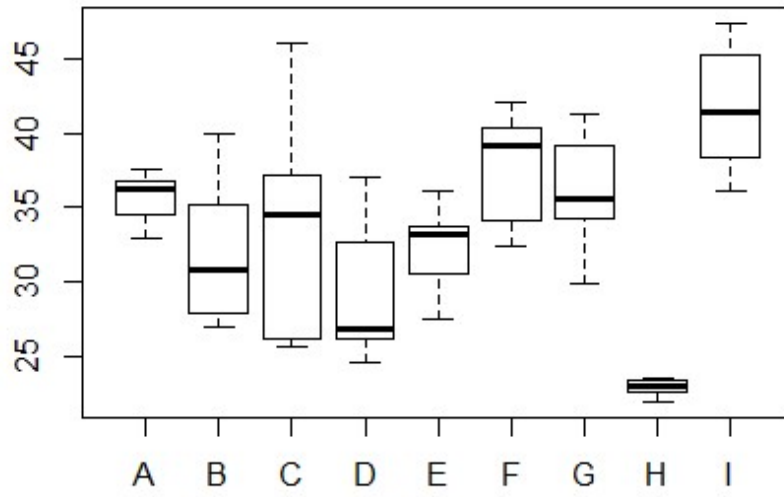
### Mn



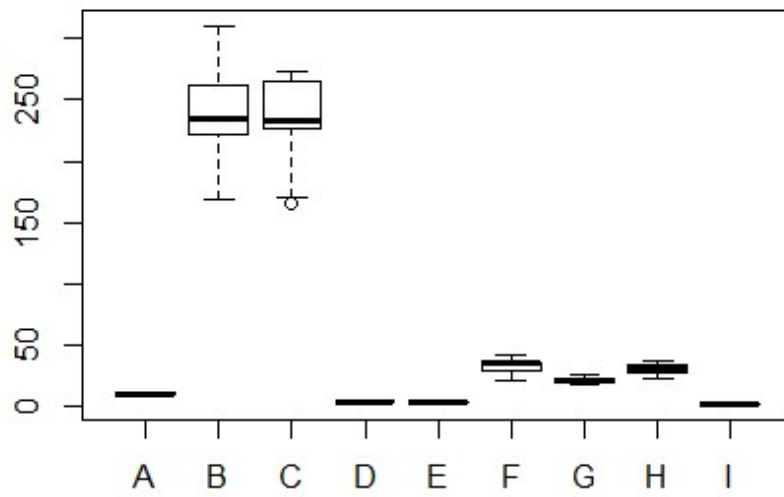
### Cu



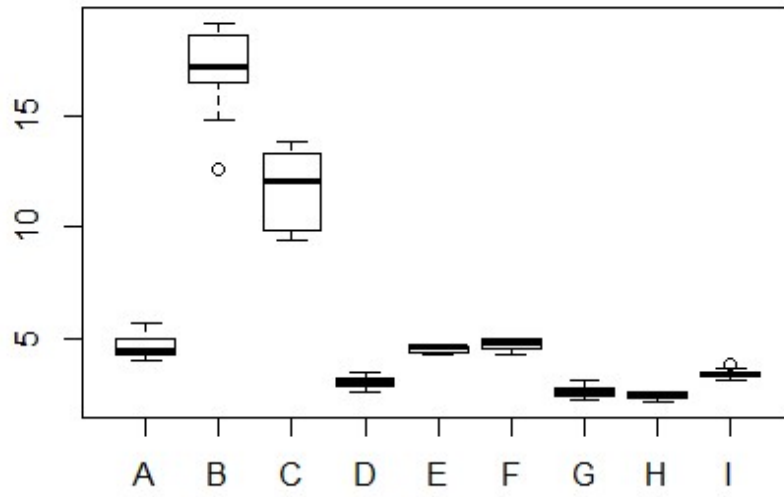
### Zn



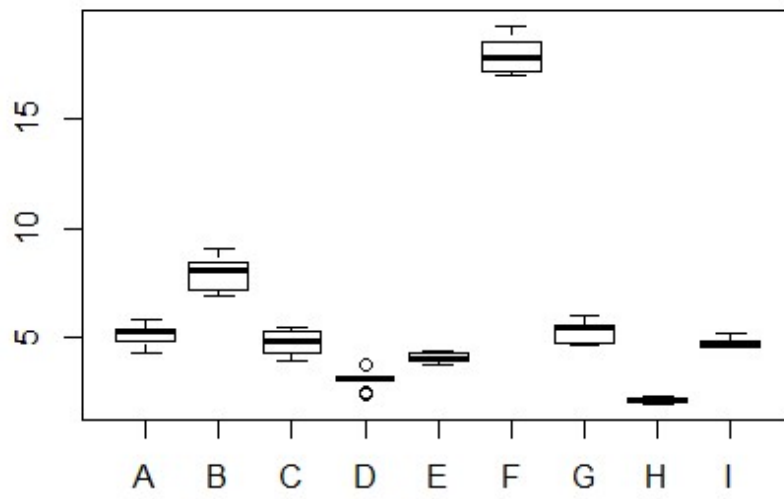
### Pb



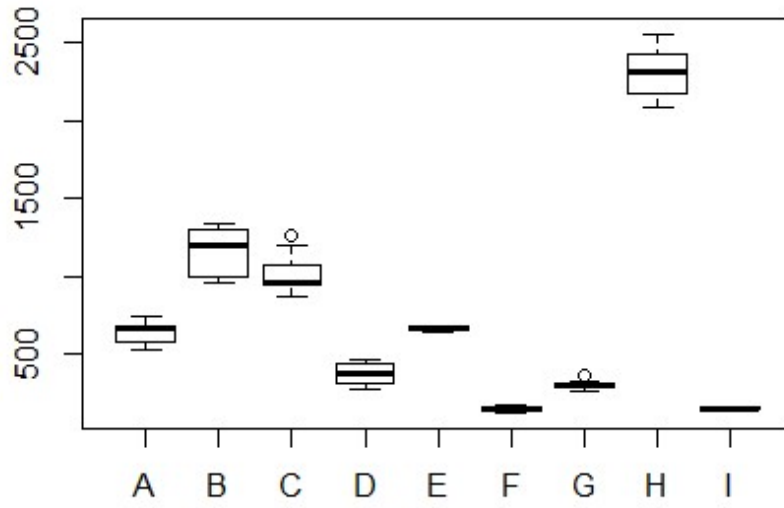
### Cd



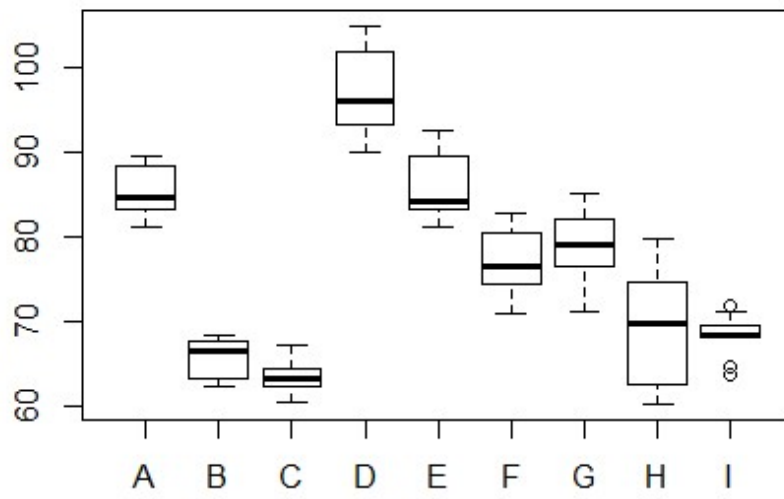
### Ni



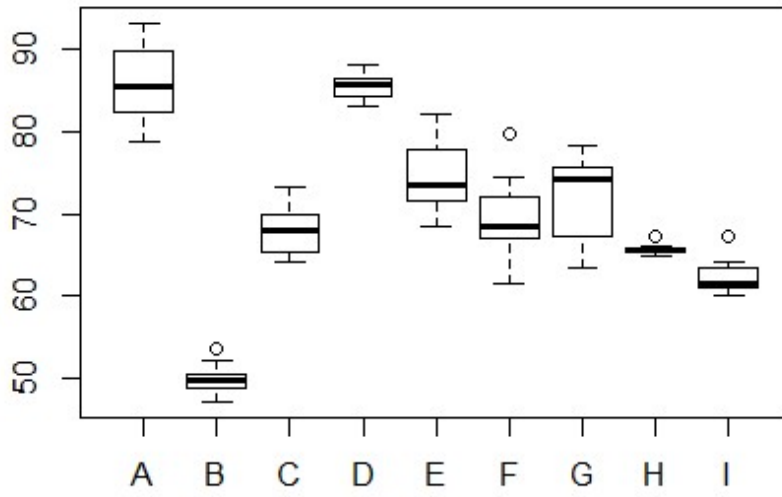
### Cr



### TPC



### DPPH



### ABTS

