

Table S1. Kaempferol and quercetin derivatives analysis of positive ES mode

Component name	Neutral mass (Da)	Observed neutral mass (Da)	Observed m/z	Total Fragments Found	Mass error (mDa)	Mass error (ppm)	Observed RT (min)	Detector counts	Response	Adducts
8-C-Prenylkaempferol	354.1103	354.1113	355.1186	19	0.9	2.7	8.29	181862	150792	+H
5-Methyl kaempferol	300.0634	300.0641	301.0713	13	0.7	2.2	6.45	57081	47251	+H
Kaempferol	286.0477	286.0481	287.0554	7	0.4	1.4	8.29	47583	40633	+H
Kaempferol-7-O- α -L-rhamnoside	432.1056	432.1067	433.1139	24	1	2.3	4.07	38044	28688	+H
5-Methyl kaempferol	300.0634	300.064	301.0713	11	0.6	2.1	4.64	19800	17016	+H
5-Methyl kaempferol	300.0634	300.0639	301.0712	44	0.5	1.8	7.36	18287	15881	+H
5-Methyl kaempferol	300.0634	300.0639	301.0712	6	0.5	1.8	4.55	18102	12327	+H
5-Methyl kaempferol	300.0634	300.064	301.0712	10	0.6	1.9	7.43	14867	12000	+H
8-C-Prenylkaempferol	354.1103	354.111	355.1183	10	0.7	1.8	7.51	13759	5295	+H
8-C-Prenylkaempferol	354.1103	354.1095	355.1168	15	-0.8	-2.3	6.3	7146	4791	+H
8-C-Prenylkaempferol	354.1103	354.1112	355.1185	21	0.8	2.4	5.83	6763	4679	+H
8-C-Prenylkaempferol	354.1103	354.112	355.1192	12	1.6	4.6	6.07	6049	4838	+H
8-C-Prenylkaempferol	354.1103	354.11	355.1173	17	-0.3	-1	6.76	4915	3822	+H
8-C-Prenylkaempferol	354.1103	354.1104	355.1176	21	0	0.1	5.98	3346	3346	+H
Kaempferol	286.0477	286.0487	287.0559	4	0.9	3.2	8.58	2719	2351	+H
8-C-Prenylkaempferol	354.1103	354.1117	377.1009	33	1.4	3.7	10.19	912	685	+Na
8-C-Prenylkaempferol	354.1103	354.1097	377.0989	35	-0.7	-1.7	8.47	789	789	+Na
5-Methyl kaempferol	300.0634	300.0628	323.0521	10	-0.5	-1.7	9.08	725	725	+Na
8-C-Prenylkaempferol	354.1103	354.1101	377.0993	79	-0.2	-0.6	8.05	691	691	+Na
8-C-Prenylkaempferol	354.1103	354.1116	377.1008	18	1.2	3.2	7.04	599	599	+Na
8-C-Prenylkaempferol	354.1103	354.1119	377.1011	7	1.6	4.2	8.95	521	521	+Na
Quercetin-3,3'-dimethyl-ether	330.074	330.0746	331.0818	7	0.6	1.9	7.31	23152	19058	+H
Quercetin-3',4',7-trimethyl ether	328.0947	328.0958	329.103	18	1.1	3.3	7.05	5364	4393	+H
Quercetin 3,3'-dimethyl ether 7-rutinoside	638.1847	638.1875	639.1948	14	2.9	4.5	6.73	3653	2079	+H
Quercetin-3',4',7-trimethyl ether	328.0947	328.0942	329.1014	18	-0.5	-1.6	8.02	2717	1650	+H
Quercetin-3-O- β -D-xylopyranosyl (1 \rightarrow 2)- β -D-glucopyranoside	596.1377	596.1388	597.1461	0	1.1	1.9	15.64	1647	804	+H
Quercetin-3',4',7-trimethyl ether	328.0947	328.0953	329.1025	8	0.6	1.7	6.69	1310	726	+H
Quercetin-7-O-rutinoside	610.1534	610.151	611.1583	12	-2.4	-3.9	3.19	844	844	+H
3-O- β -D-Galacopyanosyl quercetin	466.1111	466.1087	489.0979	27	-2.4	-4.9	0.59	526	526	+Na