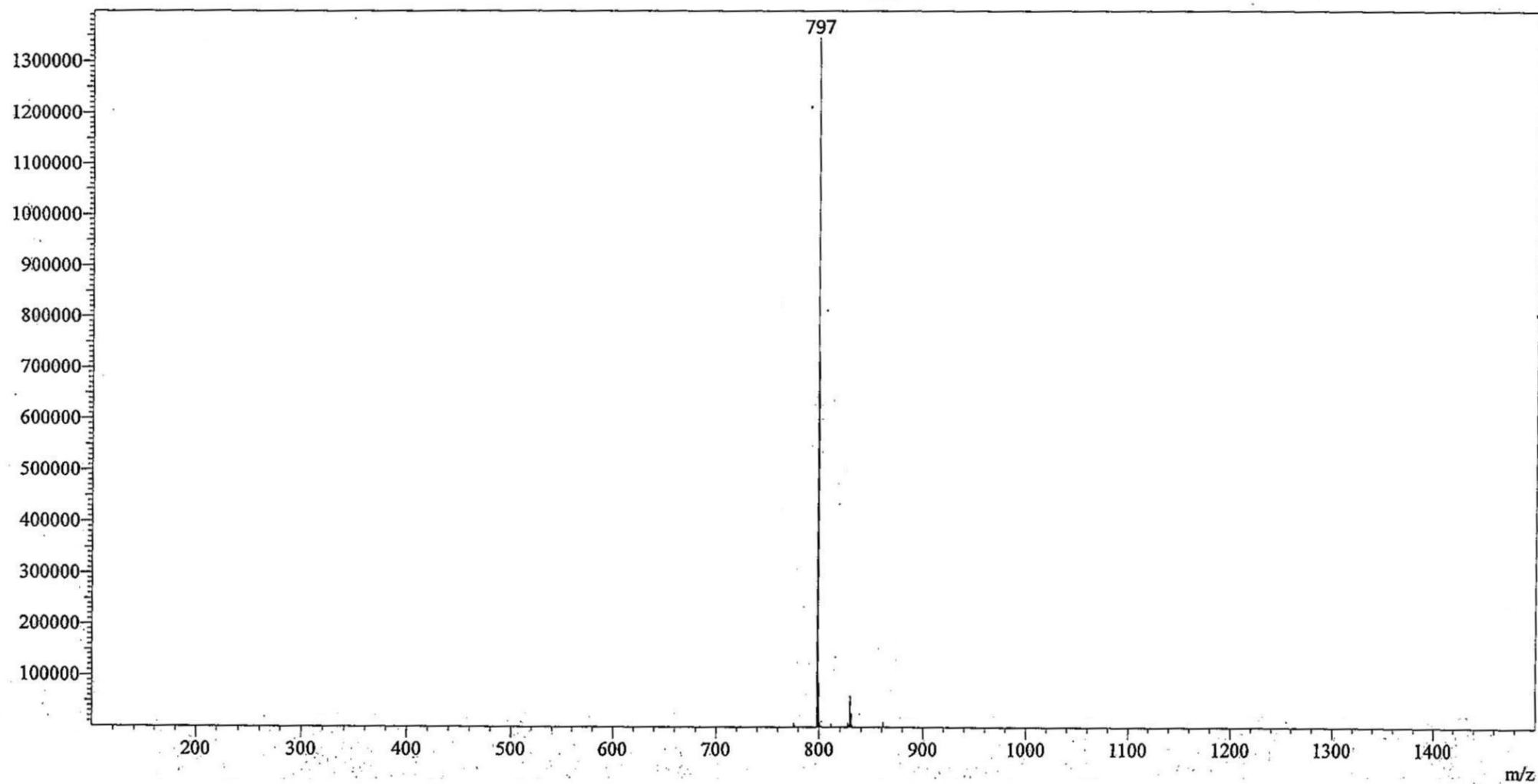
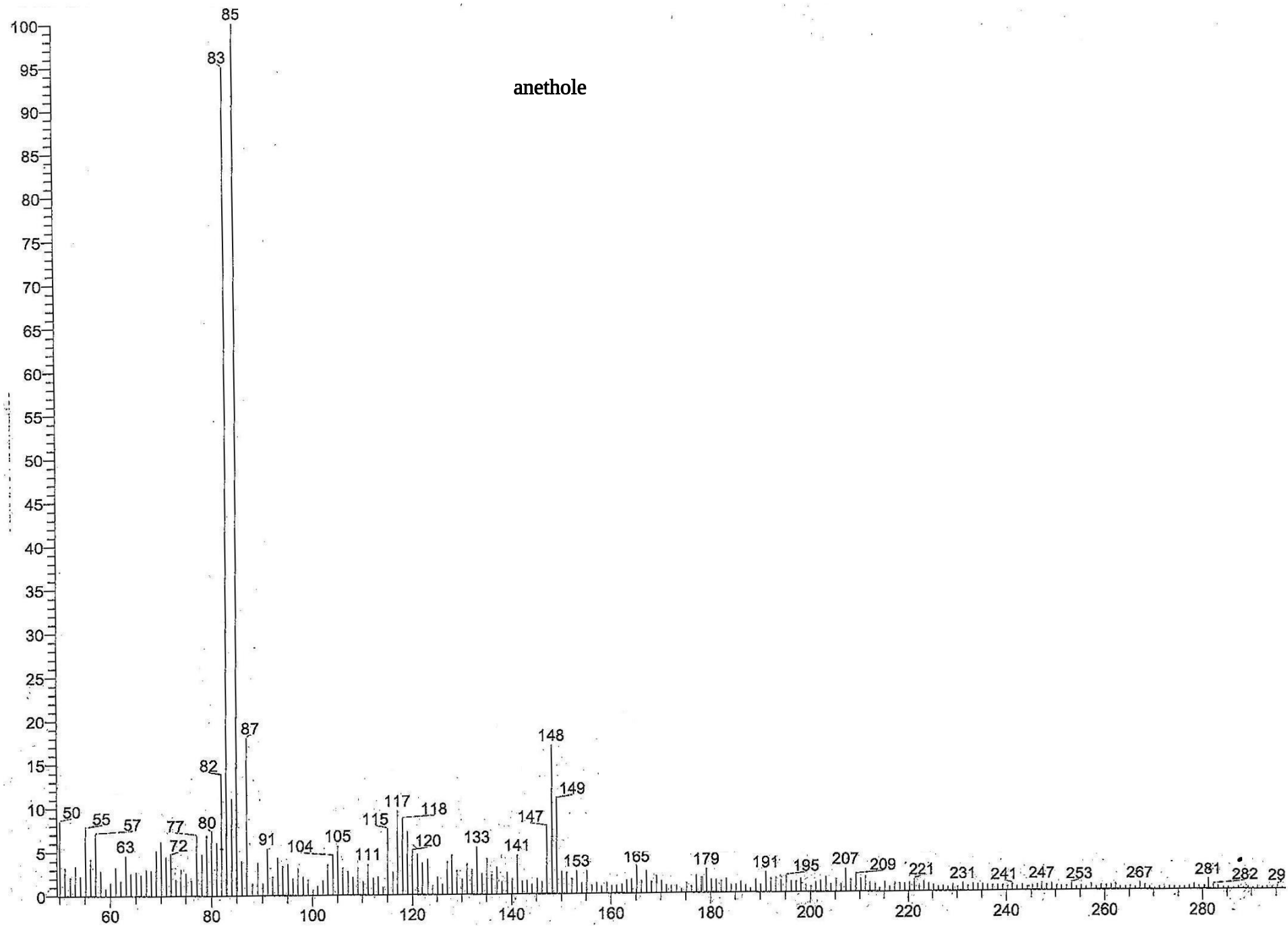


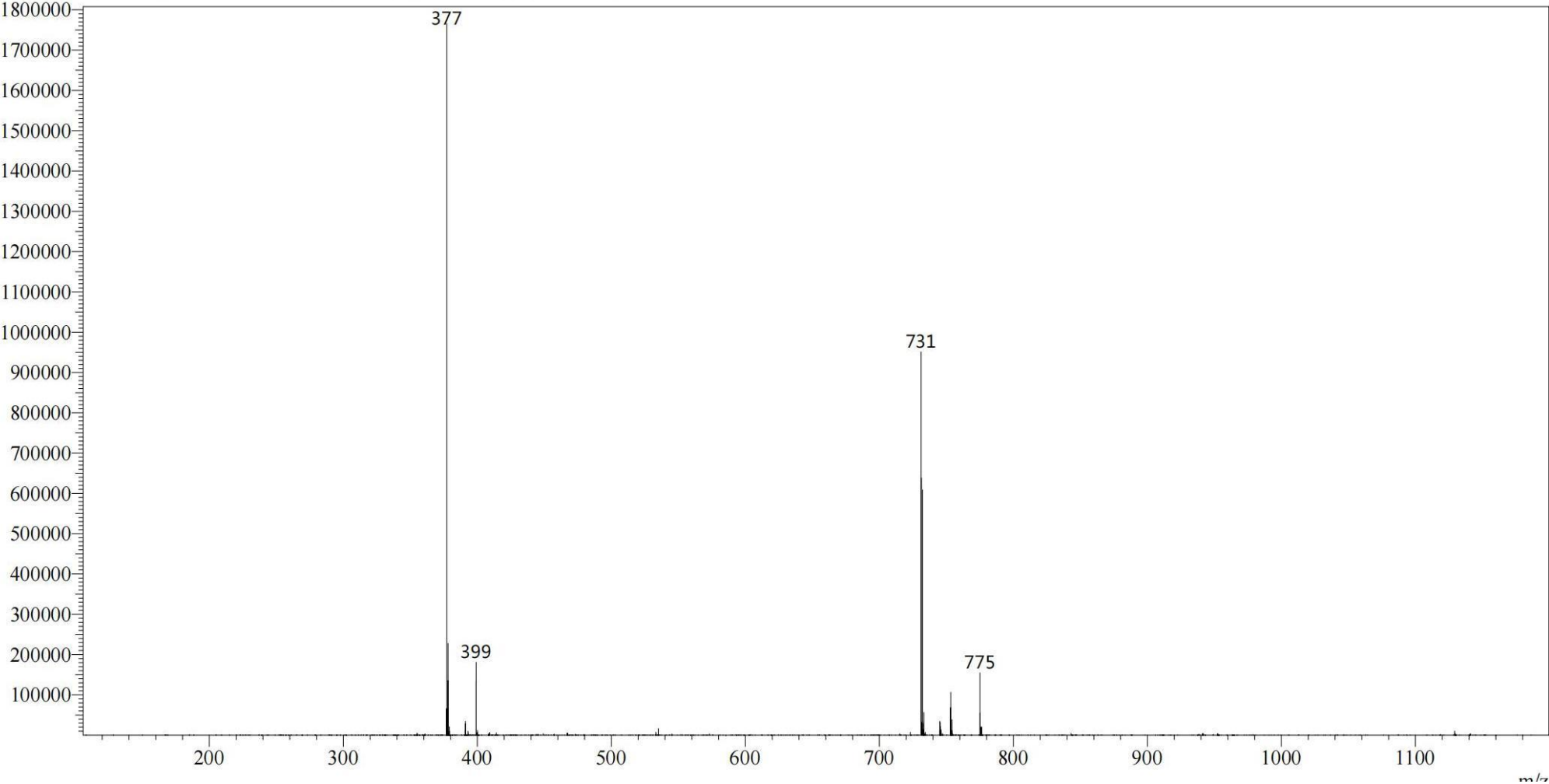
Supplementary Figure 1: The MS results of the chemical ingredients in the leaves of Camellia

1-2-Di-O-linolenylglycerol-3-O- β -D-galactopyranoside

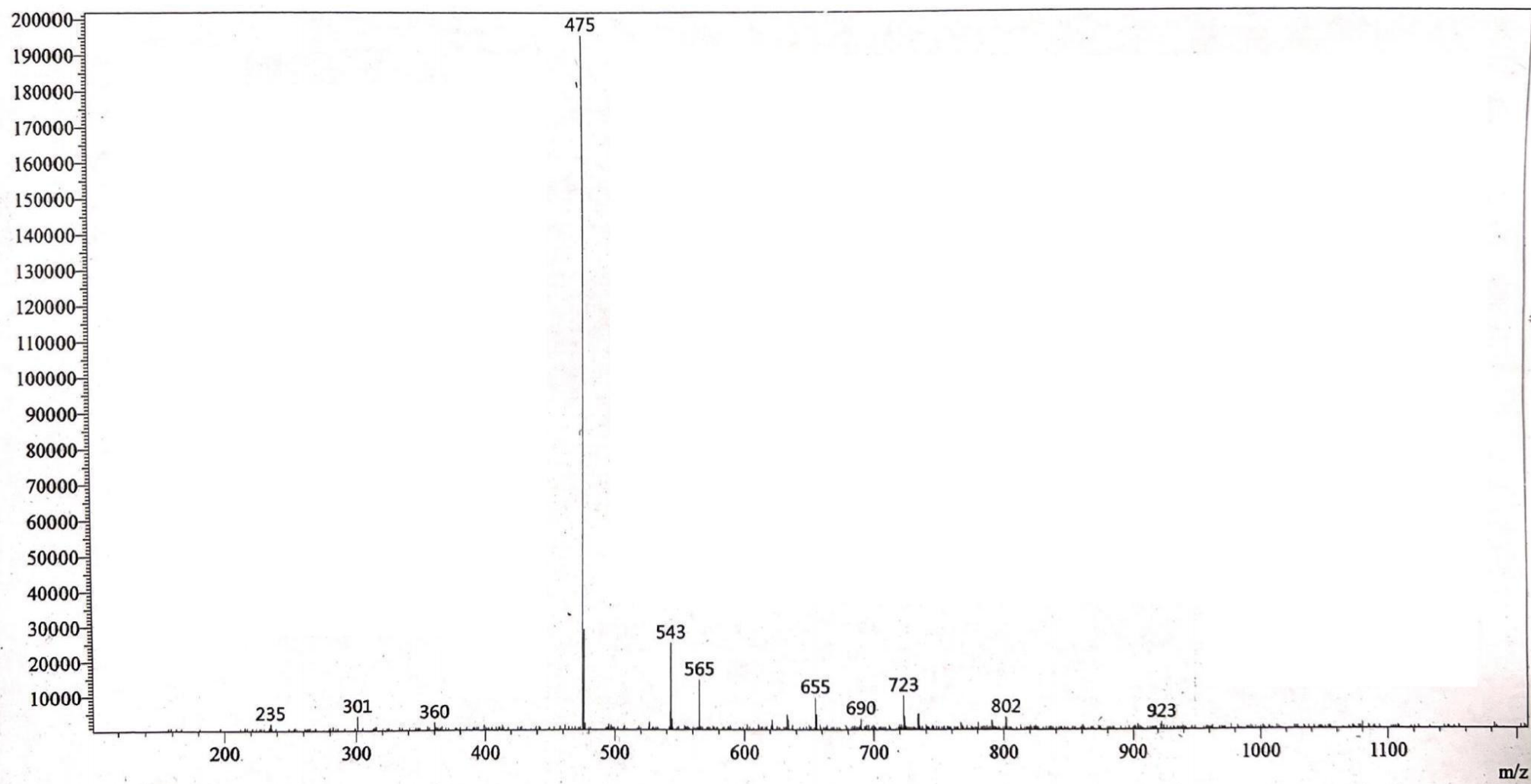




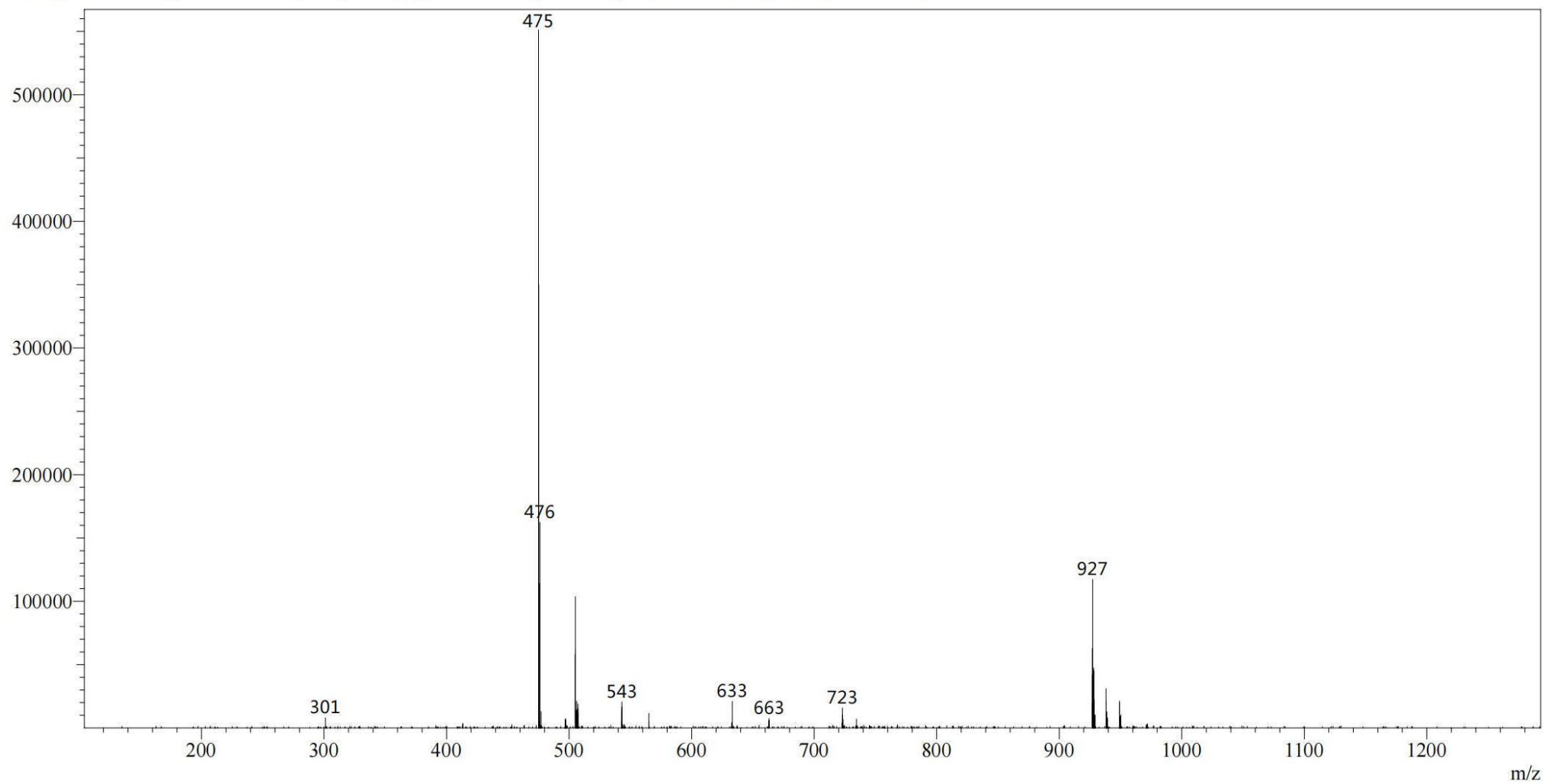
chlorogenic acid



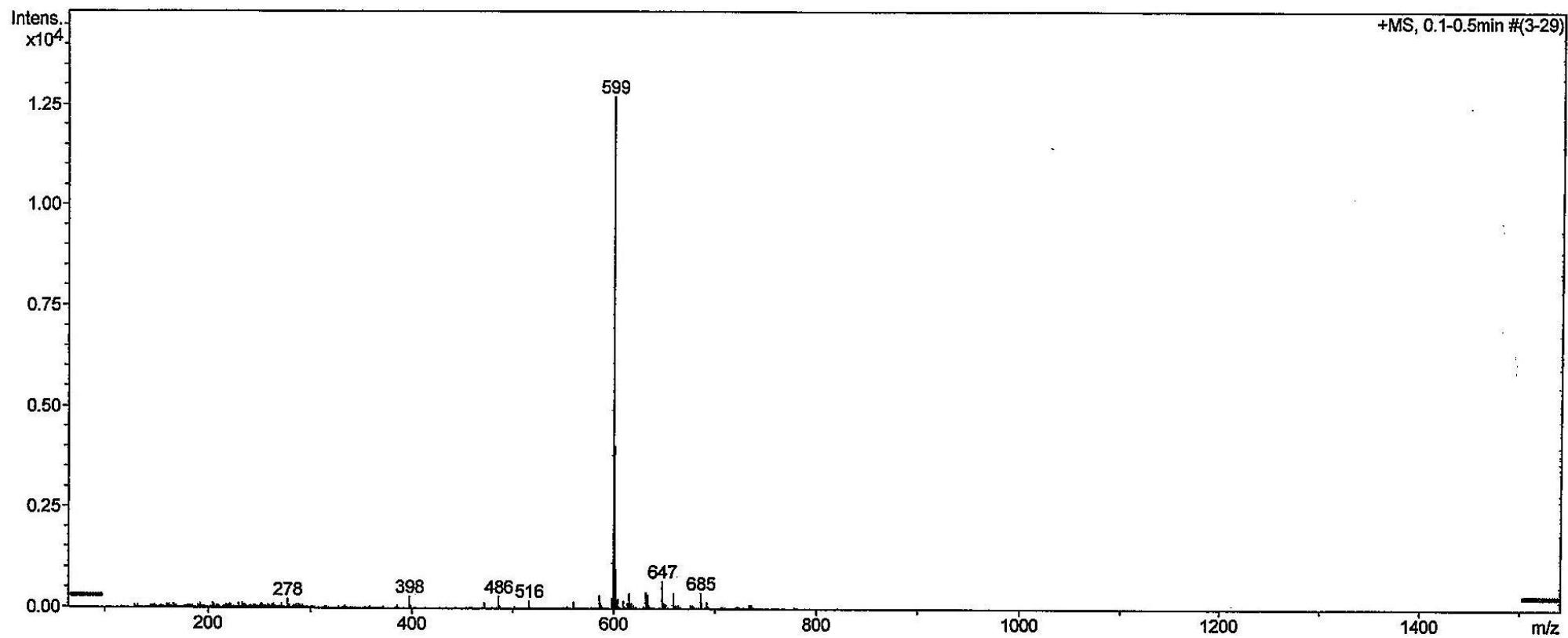
cinchonain Ia



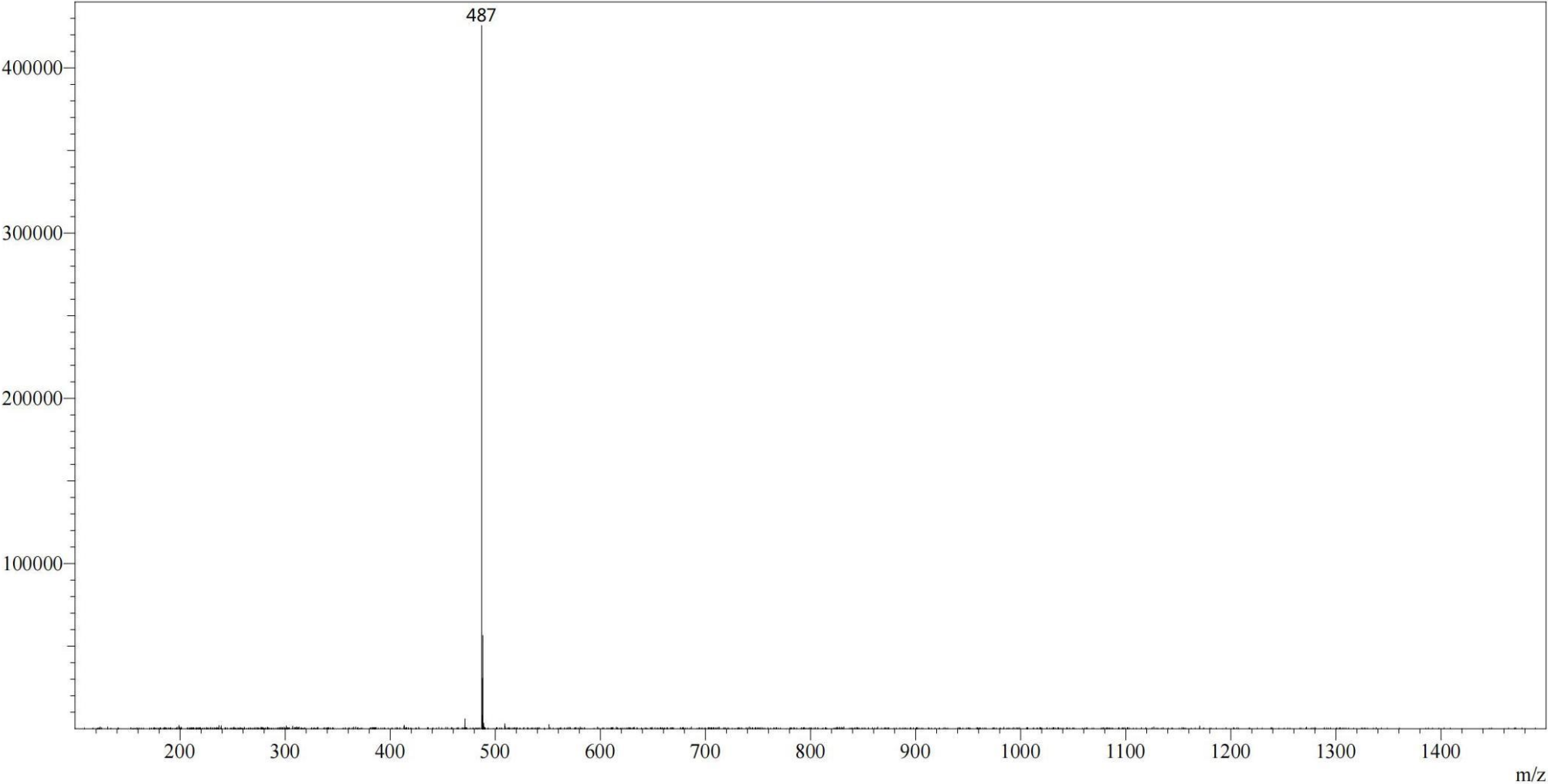
Cinchonain Ib



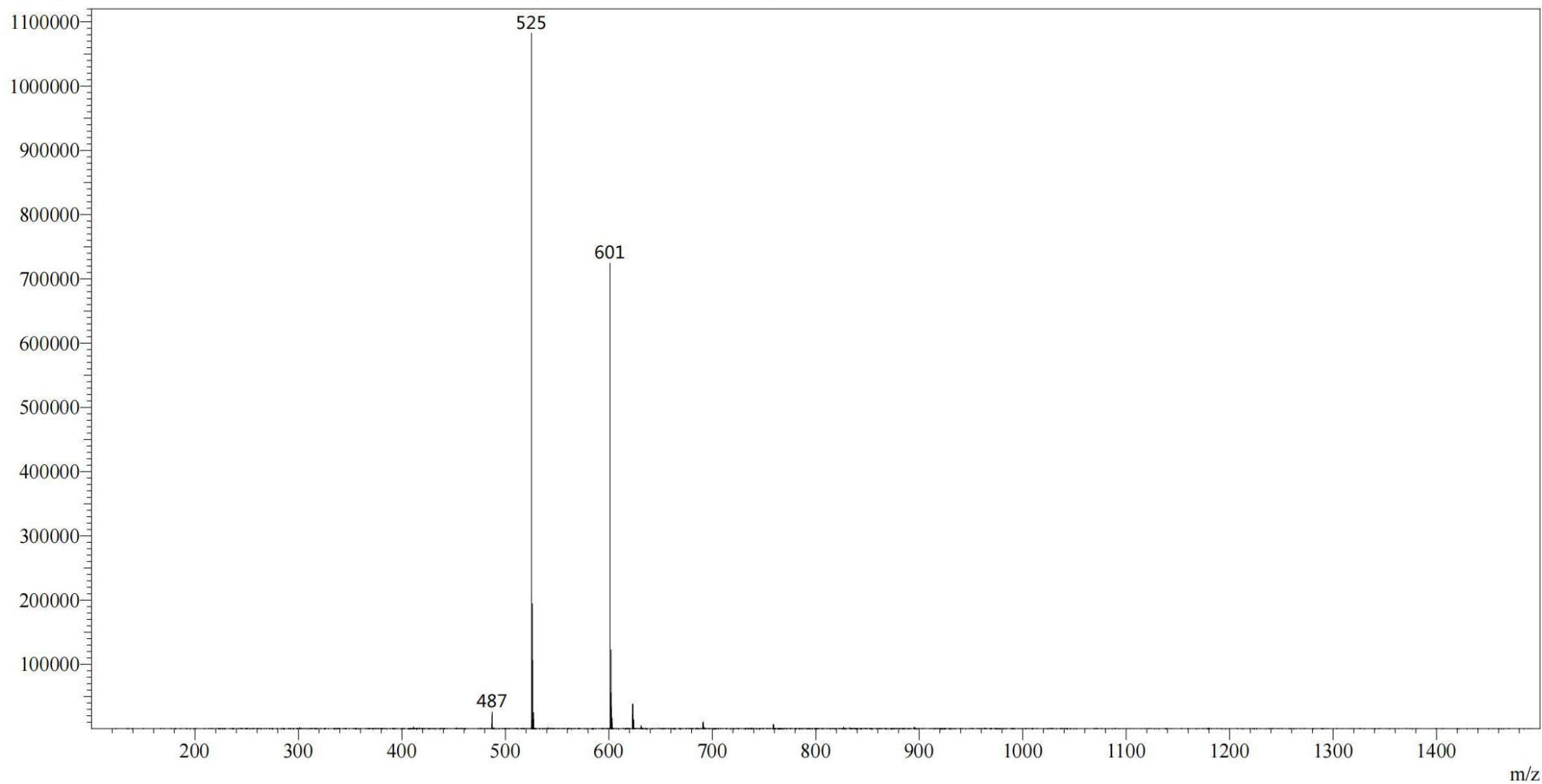
daucosterol



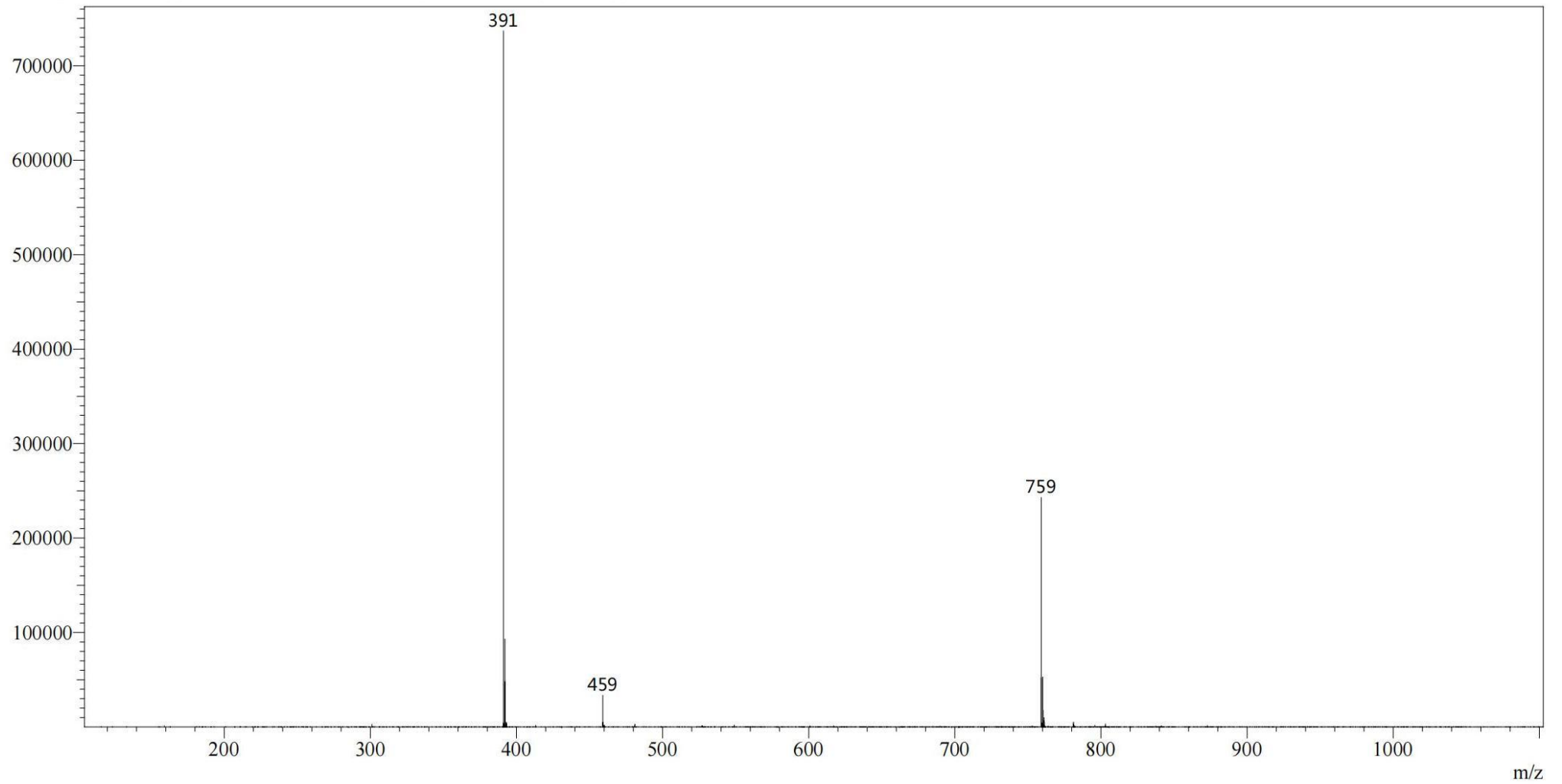
Isoquercitrin



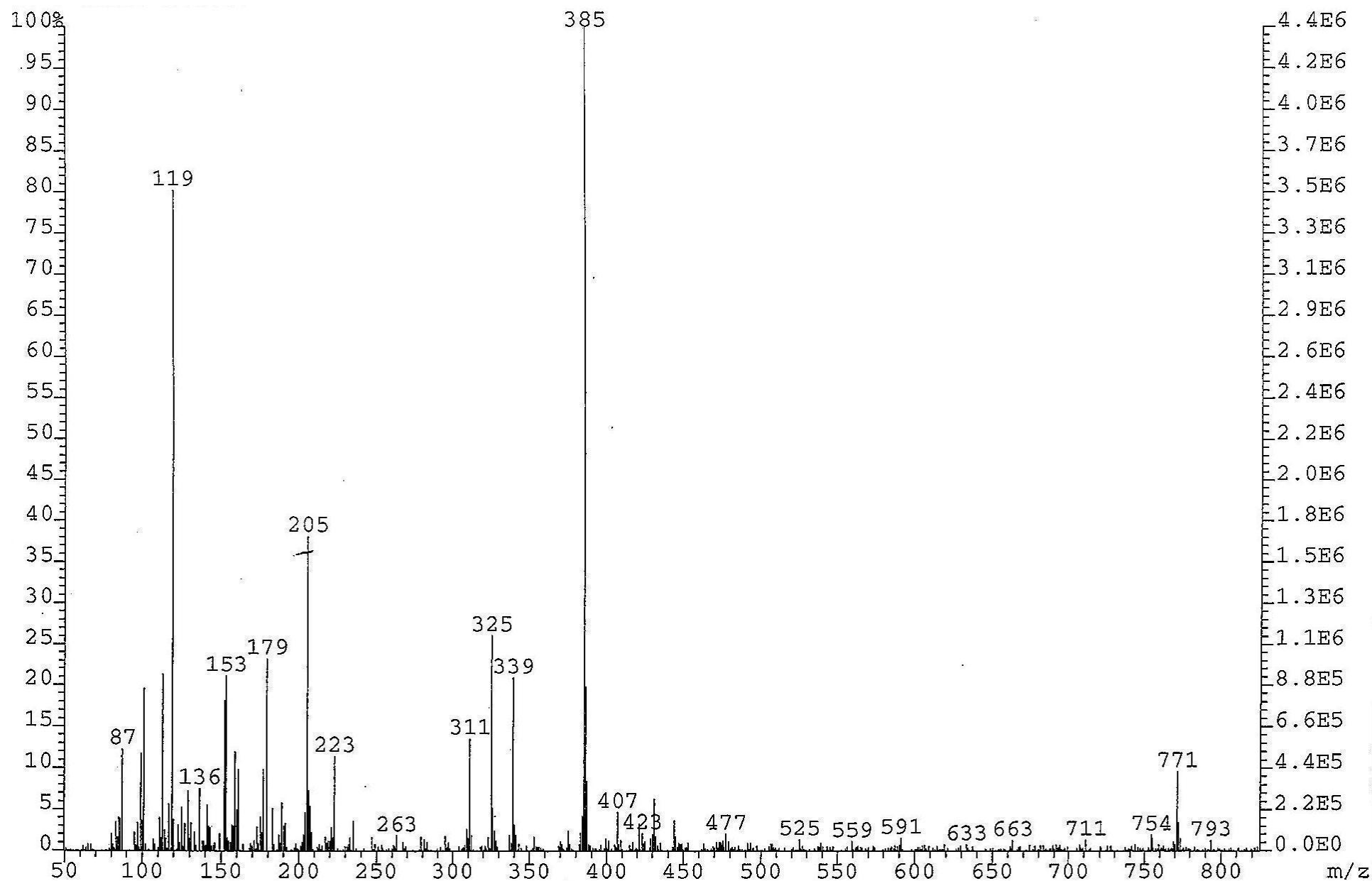
Isovitexin 2-O-rhamnoside



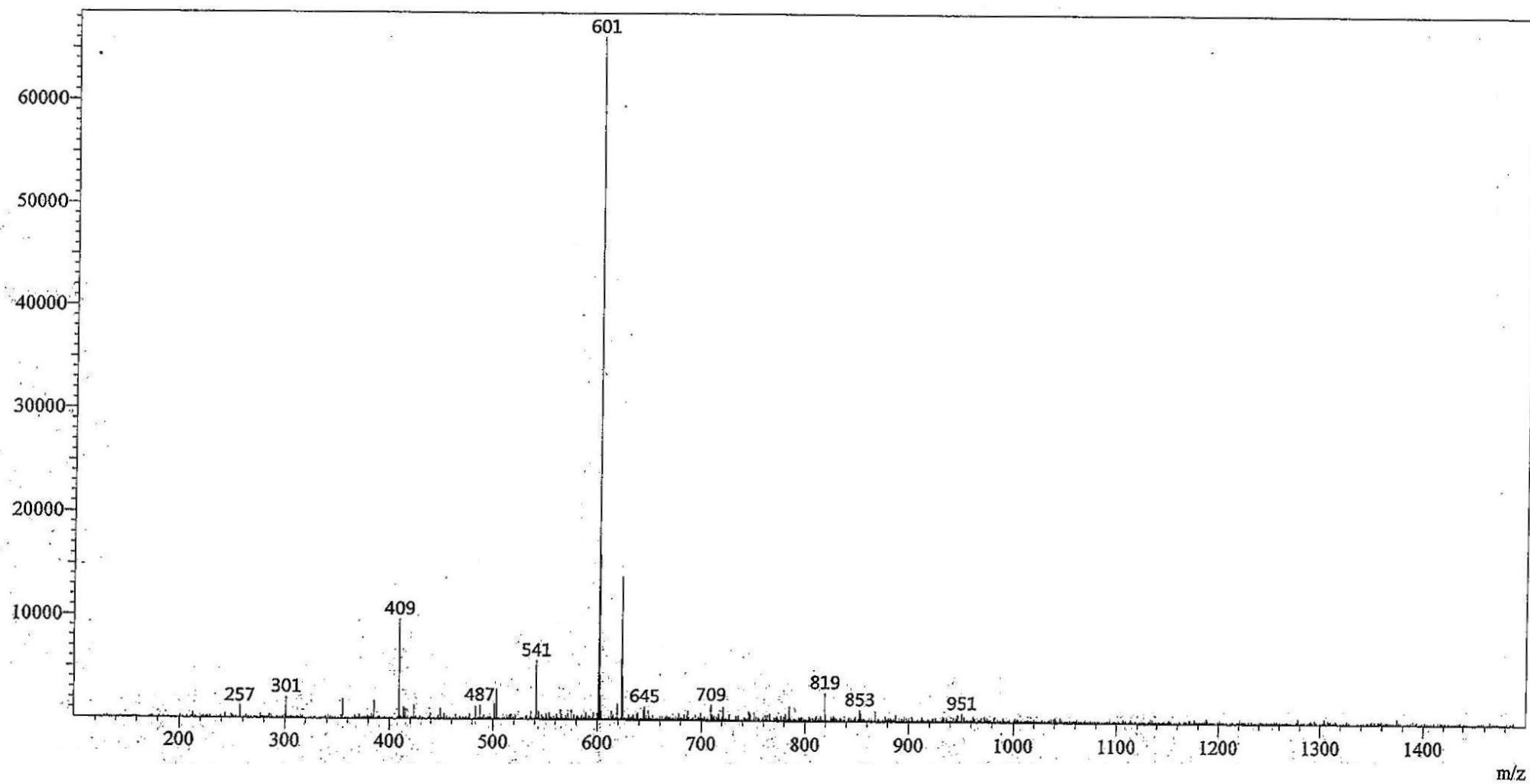
methyl chlorogenate



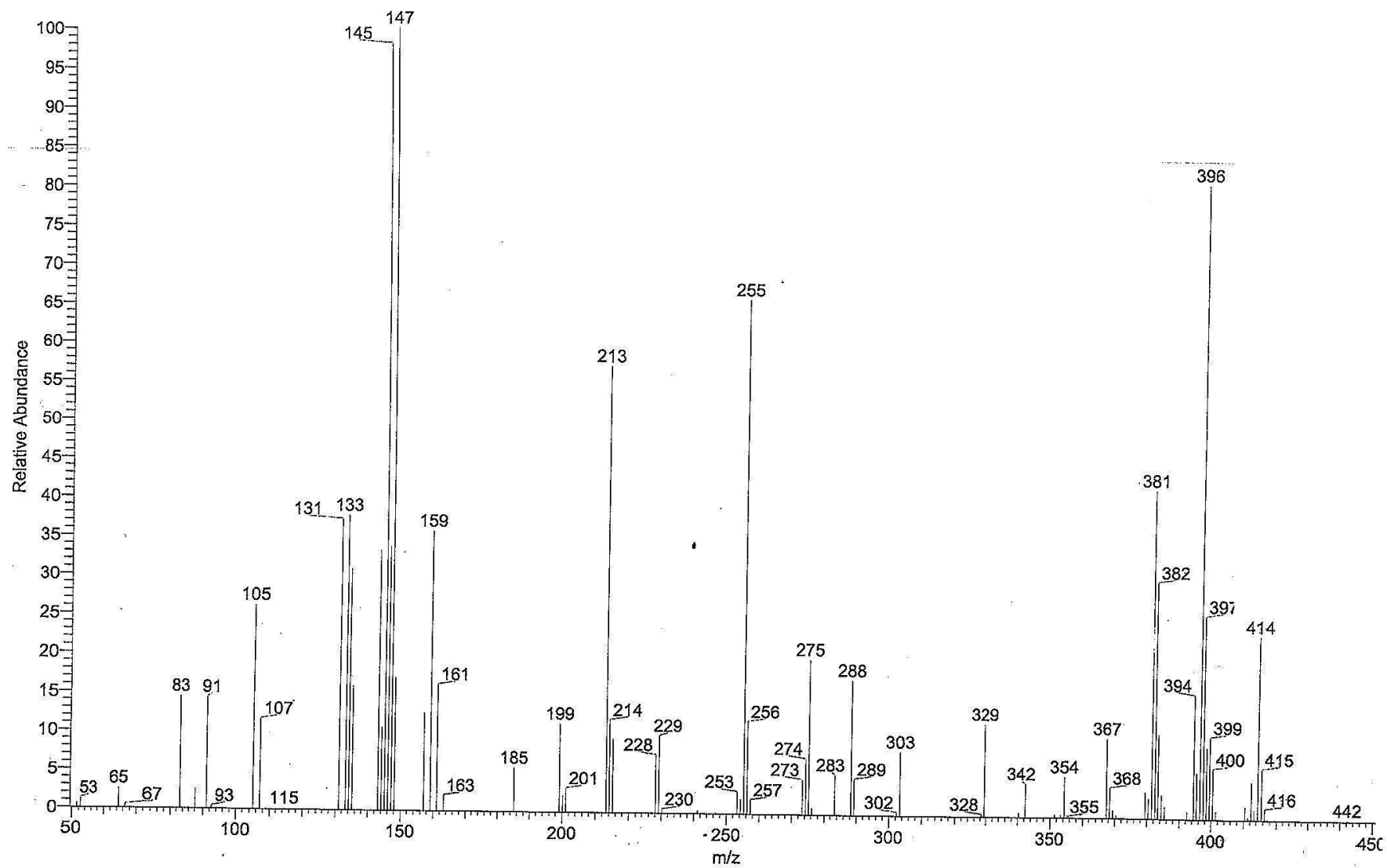
Roseoside



Vitexin 2-O-rhamnoside

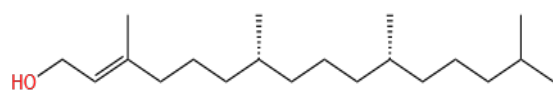


β -sitosterol

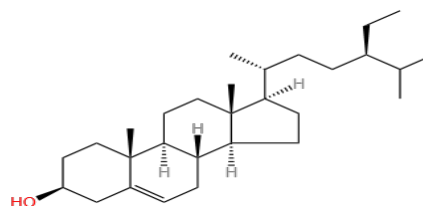


Supplementary Figure 2: The structural formulas of *Camellia luteoflora* ingredients

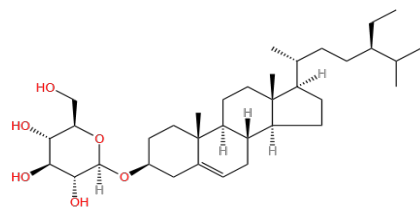
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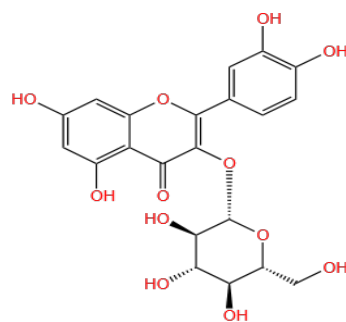
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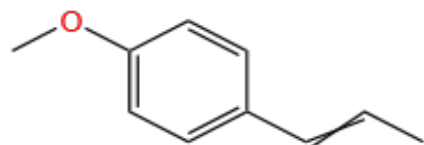
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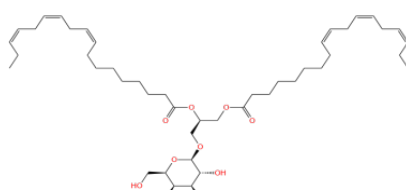
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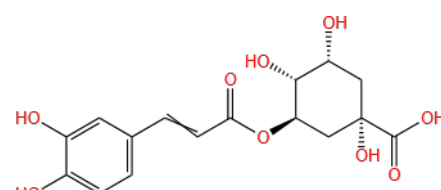
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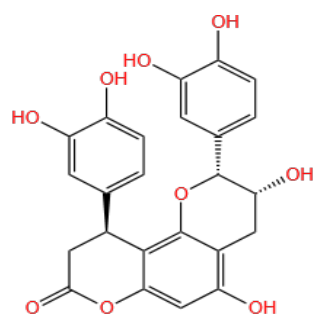
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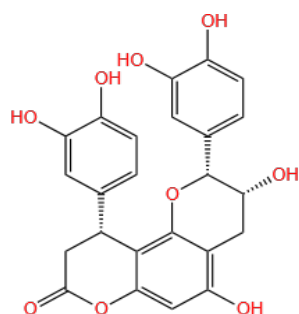
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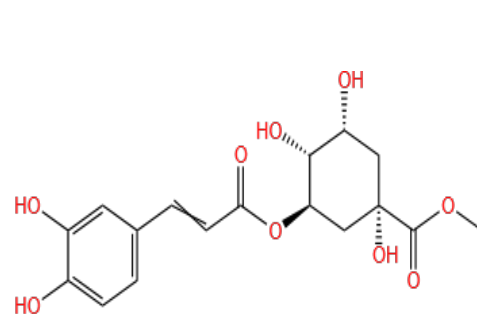
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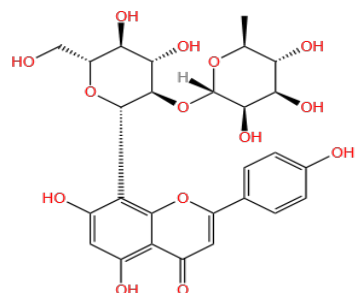
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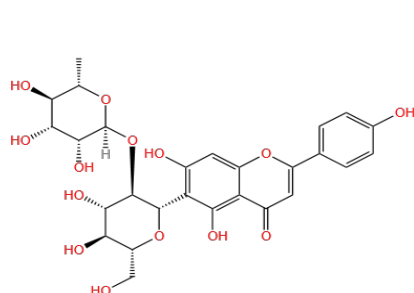
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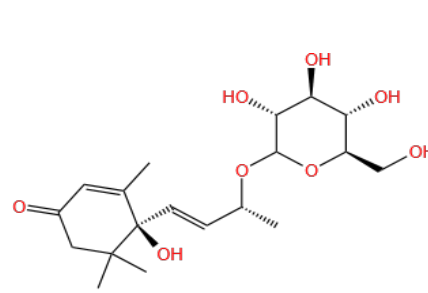
K



L



M



**Supplementary Table 1: SMILES Structures of the small-molecule monomers in
*Camellia luteoflora***

No.	Name	SMILES Structure
1	Phytol	<chem>C[C@@H](CCC[C@@H](C)CCC/C(=C/CO)/C)CCCC(C)C</chem>
2	β -sitosterol	<chem>CC[C@H](CC[C@@H](C)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C)C(C)C</chem>
3	daucosterol	<chem>CC[C@H](CC[C@@H](C)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O[C@H]5[C@@H]([C@H]([C@@H]([C@H](O5)CO)O)O)C)C(C)C</chem>
4	Isoquercitrin	<chem>C1=CC(=C(C=C1C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O[C@H]4[C@@H]([C@H]([C@@H]([C@H](O4)CO)O)O)O)O</chem>
5	anethol	<chem>C/C=C/C1=CC=C(C=C1)OC</chem>
6	1, 2-Di-O-linolenoyl glycerol 3-O- β -D-galactopyranoside	<chem>CC\C=C/C\C=C/C\C=C/CCCCCCCC(=O)OC[C@@H](CO[C@@H]1O[C@H](CO)[C@H](O)[C@H](O)[C@H]1O)OC(=O)CCCCC/C=C\C/C=C\C/C=C\C</chem>
7	chlorogenic acid	<chem>C1[C@H]([C@H]([C@@H](C[C@@]1(C(=O)O)O)OC(=O)/C=C/C/C2=CC(=C(C=C2)O)O)O</chem>
8	cinchonain Ib	<chem>C1[C@H]([C@H](OC2=C1C(=CC3=C2[C@@H](CC(=O)O3)C4=CC(=C(C=C4)O)O)O)C5=CC(=C(C=C5)O)O)O</chem>
9	cinchonain Ia	<chem>C1[C@H]([C@H](OC2=C1C(=CC3=C2[C@H](CC(=O)O3)C4=CC(=C(C=C4)O)O)O)C5=CC(=C(C=C5)O)O)O</chem>
10	methyl chlorogenate	<chem>COC(=O)[C@@]1(C[C@H]([C@H]([C@@H](C1)OC(=O)/C=C/C/C2=CC(=C(C=C2)O)O)O)O</chem>
11	vitexin-2-O-rhamnoside	<chem>C[C@H]1[C@@H]([C@H]([C@H]([C@@H](O1)O[C@@H]2[C@H]([C@@H]([C@H](O[C@H]2C3=C(C=C(C4=C3OC(=CC4=O)C5=CC=C(C=C5)O)O)CO)O)O)O)O</chem>
12	isovitexin-2-O-rhamnoside	<chem>C[C@H]1[C@@H]([C@H]([C@H]([C@@H](O1)O[C@@H]2[C@H]([C@@H]([C@H](O[C@H]2C3=C(C4=C(C=C3O)OC(=CC4=O)C5=CC=C(C=C5)O)O)CO)O)O)O)O</chem>
13	roseoside	<chem>CC1=CC(=O)CC([C@]1(/C=C/[C@@H](C)O[C@H]2[C@@H]([C@H]([C@@H]([C@H](O2)CO)O)O)O)O(C)C</chem>

Supplementary Table 2: 204 *Camellia luteoflora* and COAD intersection targets

No.	Gene ID	No.	Gene ID	No.	Gene ID
1	TP53	40	MAPK10	80	PTPN6
2	MET	41	CCNA2	81	CXCR3
3	TERT	42	CYP1B1	82	IGFBP5
4	KIT	43	AHR	83	CYP2C19
5	ESR1	44	ELANE	84	XDH
6	HRAS	45	MME	85	POLB
7	AR	46	CYP1A2	86	PTGER2
8	PPARG	47	F3	87	SLC29A1
9	STAT3	48	PRKCD	88	KDM5B
10	MDM2	49	KDM3A	89	MMP12
11	FLT1	50	CYP2D6	90	MAPT
12	SMO	51	ALOX5	91	AKR1B1
13	TNF	52	CXCR2	92	ACHE
14	JUN	53	PPARD	93	APP
15	PTGS2	54	CDC25A	94	ACP1
16	IL2	55	ACE	95	HK1
17	ABCB1	56	CA9	96	NOX4
18	MMP2	57	MMP13	97	GSR
19	CDK2	58	G6PD	98	PPP2CA
20	ITGB1	59	TUBB3	99	CNR1
21	GLI1	60	PIM1	100	CCNA1
22	BCL2L1	61	HK2	101	SREBF2
23	VDR	62	ADA	102	TNNI3
24	ESR2	63	SI	103	MAOA
25	TLR4	64	NR3C1	104	AKR1B10
26	NQO1	65	F2	105	SRD5A1
27	CYP1A1	66	NQO2	106	MMP8
28	CYP17A1	67	HMGCR	107	PSEN1
29	CYP19A1	68	HTR2C	108	CD38
30	PGR	69	NR1H2	109	PFKFB3
31	IGFBP3	70	HSP90AB1	110	KAT2B
32	MMP7	71	ANPEP	111	DRD2
33	MMP1	72	TYR	112	PTGES
34	MAPK8	73	AGTR1	113	TNNT2
35	TOP1	74	ECE1	114	KDM4C
36	PRKCA	75	SHBG	115	CA1
37	RELA	76	AKR1C3	116	RORA
38	NOS2	77	PTPN1	117	CA12
39	MMP14	78	EDNRA	118	RPS6KA3

40	MAPK10	79	CDC25B	119	PTPN2
No.	Gene ID	No.	Gene ID	No.	Gene ID
120	HSD11B2	149	SLC5A2	178	PPM1B
121	ITGA4	150	ADK	179	SERPINA6
122	SLC37A4	151	TBXAS1	180	GLRA1
123	SLC6A4	152	ADORA2A	181	PPP2R5A
124	HTR2A	153	HTR2B	182	AMPD3
125	PSEN2	154	ADORA3	183	SLC6A2
126	CA2	155	DYRK1A	184	SQLE
127	OGA	156	CNR2	185	CA7
128	UGT2B7	157	GAA	186	ADRA1D
129	NCSTN	158	DRD4	187	ICMT
130	SLC5A1	159	CES2	188	KDM4D
131	S1PR1	160	BACE1	189	ADRA1A
132	RBP4	161	LTA4H	190	GRM2
133	MGAM	162	DRD3	191	CYP11B2
134	FAAH	163	FDFT1	192	TUBB1
135	FUCA1	164	ADORA1	193	HTR6
136	BCHE	165	HTR1B	194	ADRA2C
137	DHCR7	166	NEU4	195	MANBA
138	PDE5A	167	DRD1	196	GABRG2
139	PTAFR	168	DYRK2	197	PDE7A
140	APH1A	169	NR1I3	198	GABRB3
141	MGLL	170	CHRM2	199	NPC1L1
142	S1PR3	171	CYP11B1	200	GLRA2
143	PDE4D	172	PPP1CC	201	ADRA2B
144	PYGL	173	CYP51A1	202	NMUR2
145	NR1H3	174	PDE9A	203	CA5A
146	CA4	175	APH1B	204	GABRA5
147	PTGER1	176	RORC		
148	HSD11B1	177	ADRA2A		

Supplementary Table 3: PPI network of key targets

No.	Gene ID	Degree
1	TP53	23
2	STAT3	14
3	ESR1	12
4	AKR1C3	11
5	MAPK8	11
6	CYP1A1	9
7	HSP90AB1	9
8	CYP19A1	9
9	RELA	9
10	JUN	8
11	APP	7
12	CYP11B1	7
13	CYP11B2	7
14	CYP1A2	7
15	CYP17A1	7
16	PTGS2	7
17	PSEN1	7
18	PRKCA	7
19	UGT2B7	6
20	HMGCR	6
21	SLC6A4	6
22	HK2	6
23	HRAS	6
24	TNF	6