

SUPPLEMENTARY MATERIALS

Polar constituents of *Salvia willeana* (Holmboe) Hedge, growing wild in Cyprus.

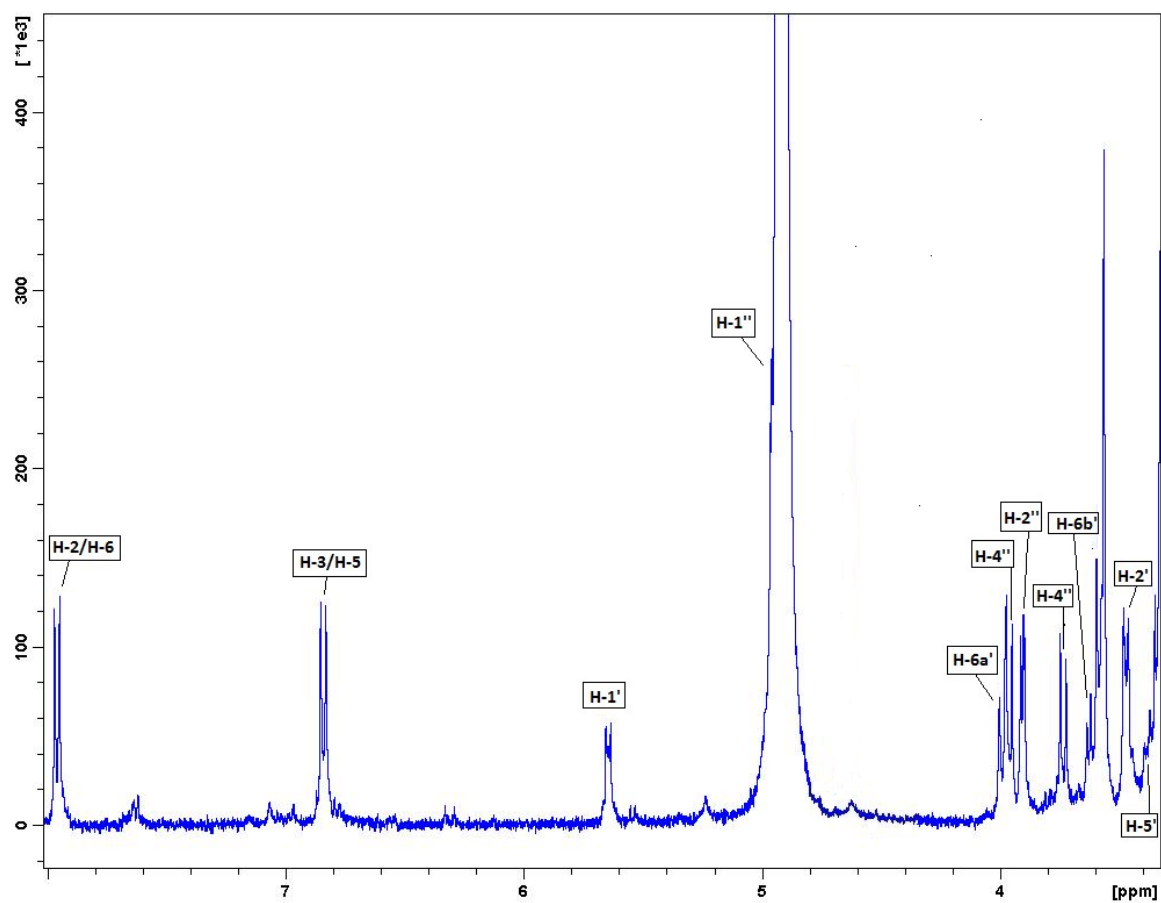
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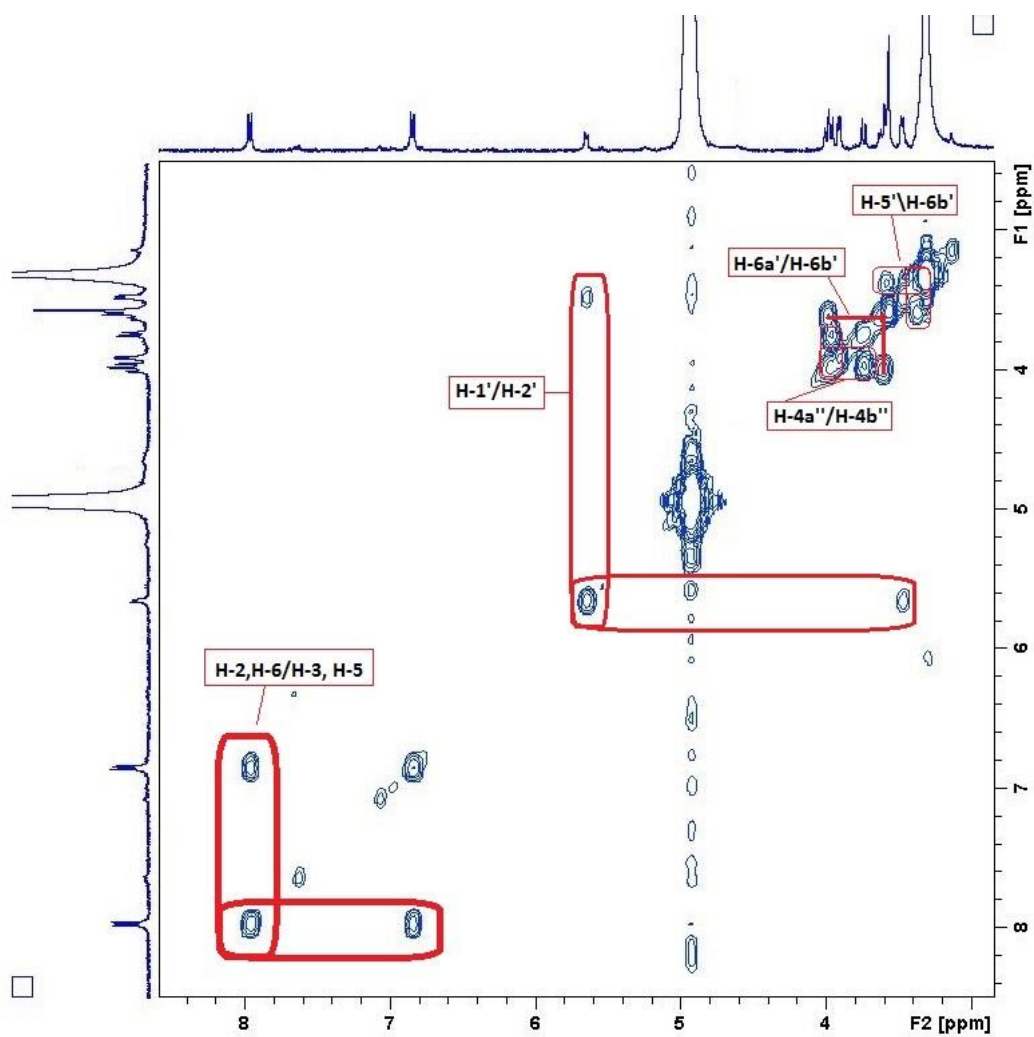
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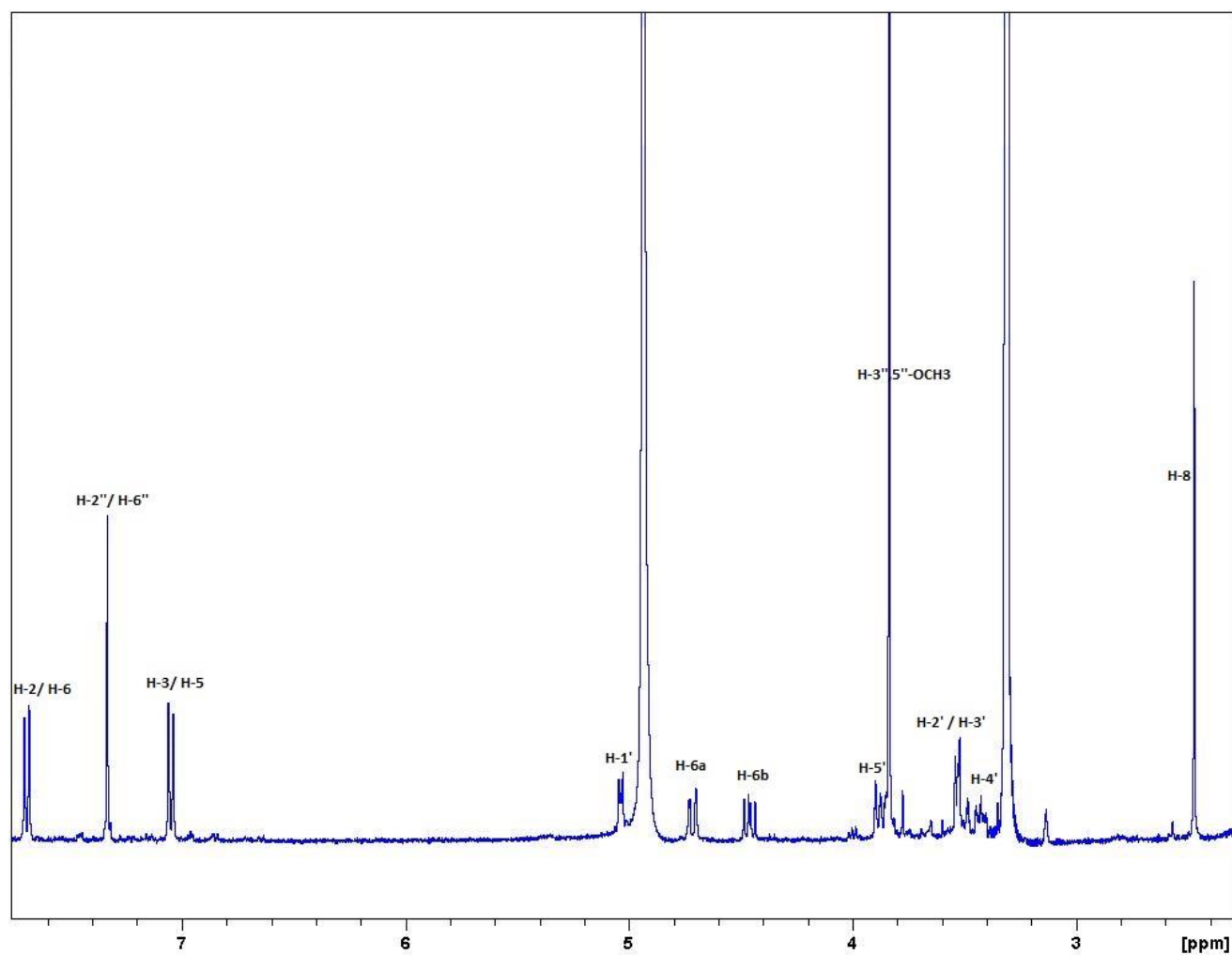
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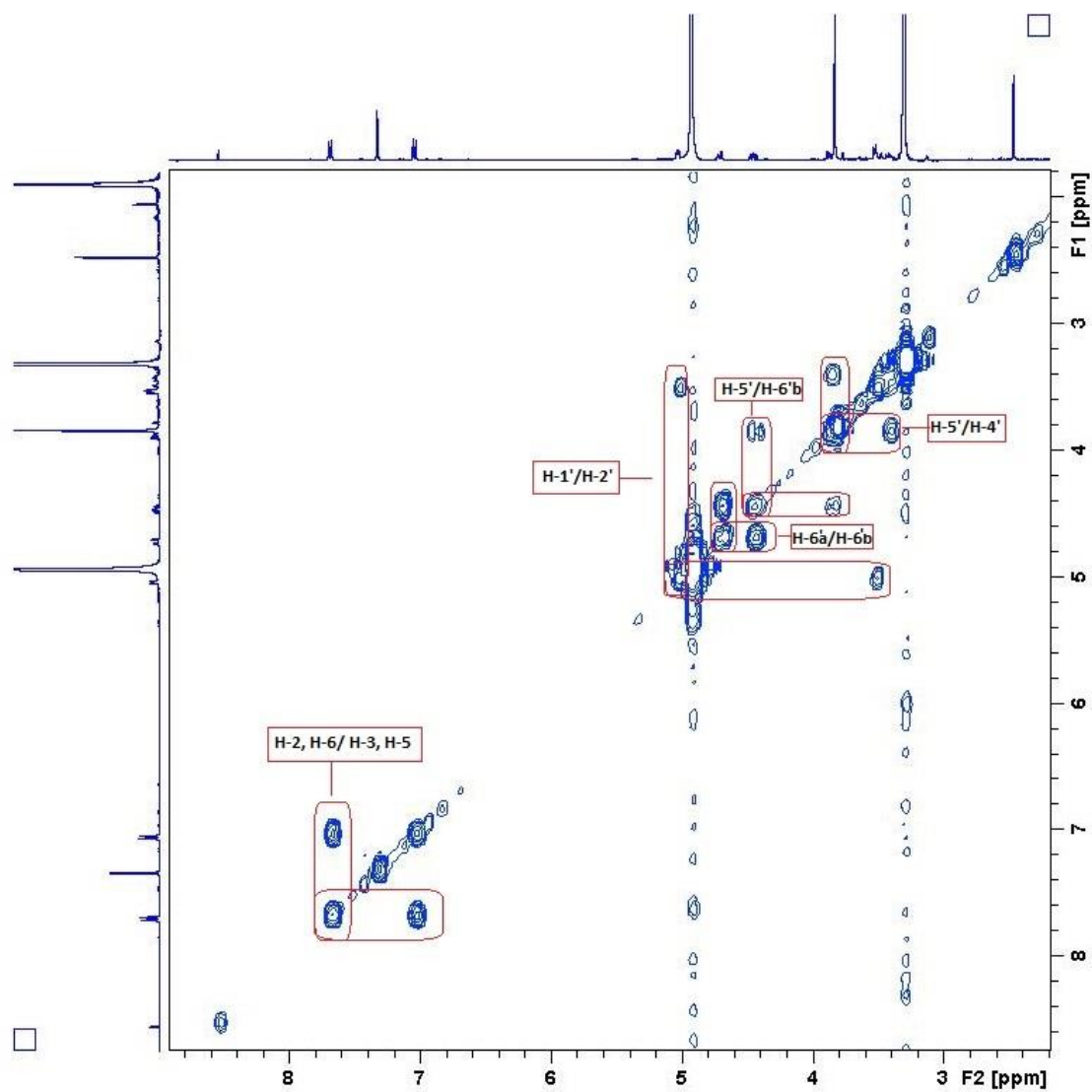
^1H -NMR spectrum of **8** (CD_3OD , 400 Hz)



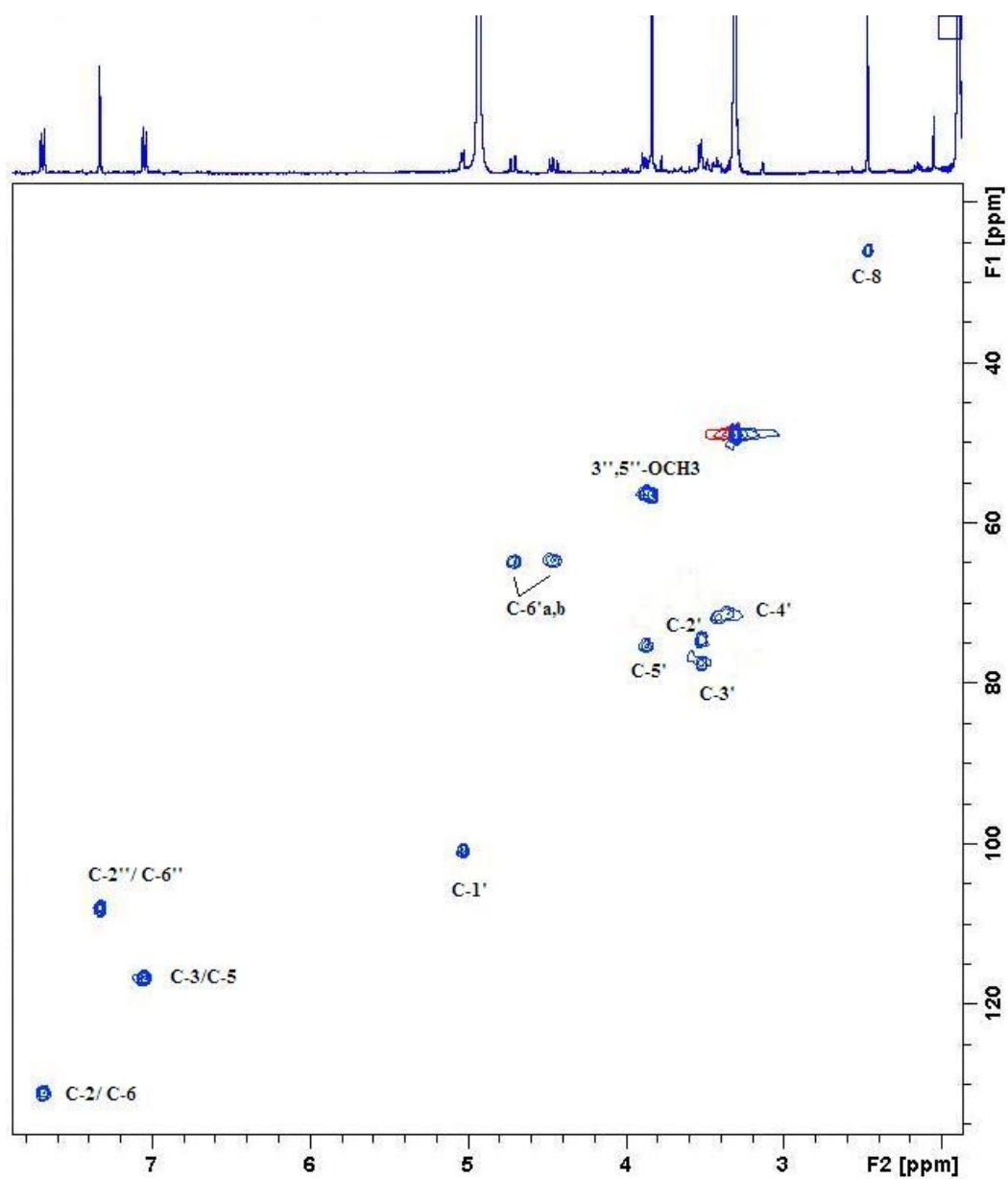
COSY spectrum of 8 (CD_3OD , 400 MHz)



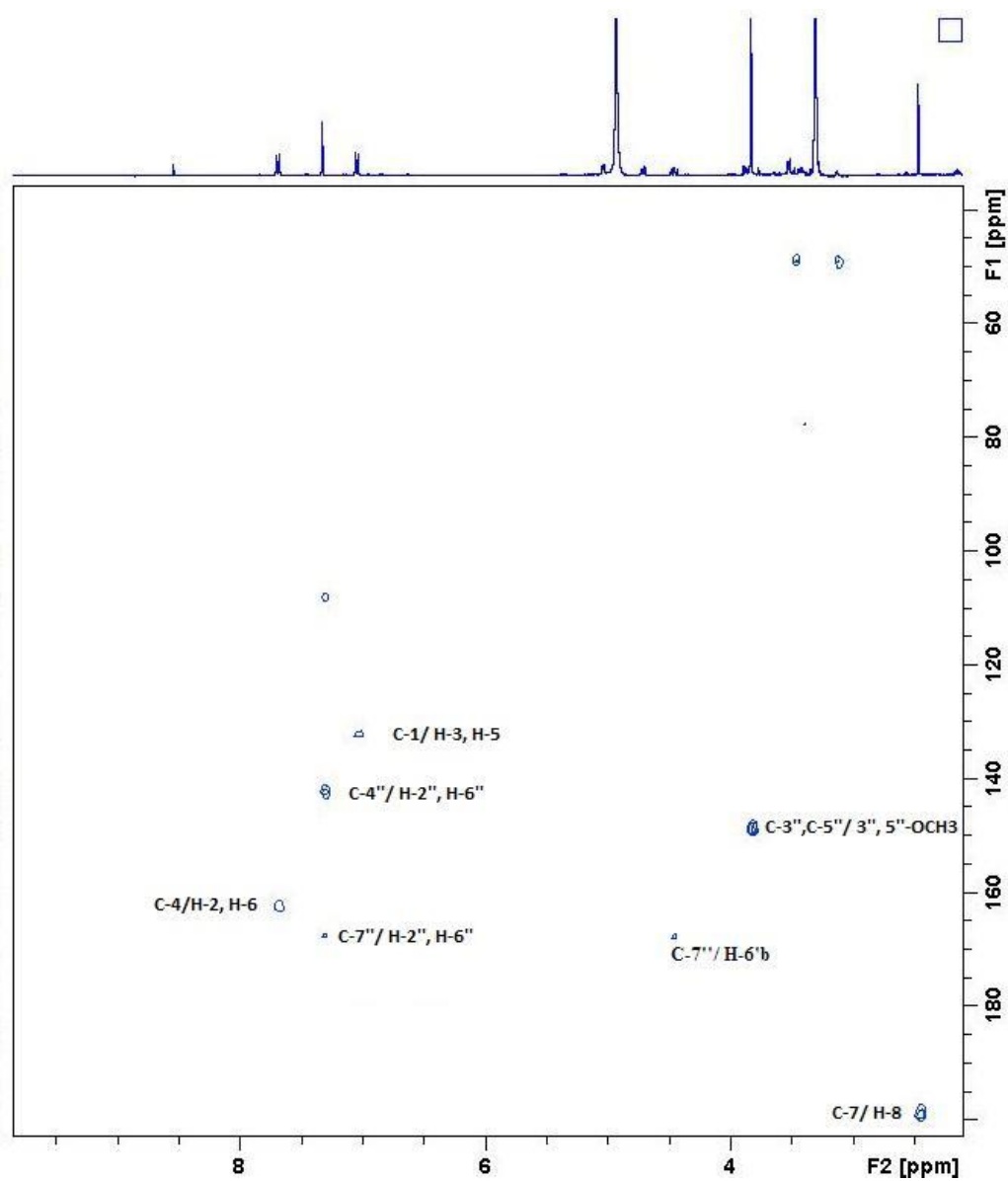
^1H -NMR spectrum of **11** (CD_3OD , 400 Hz)



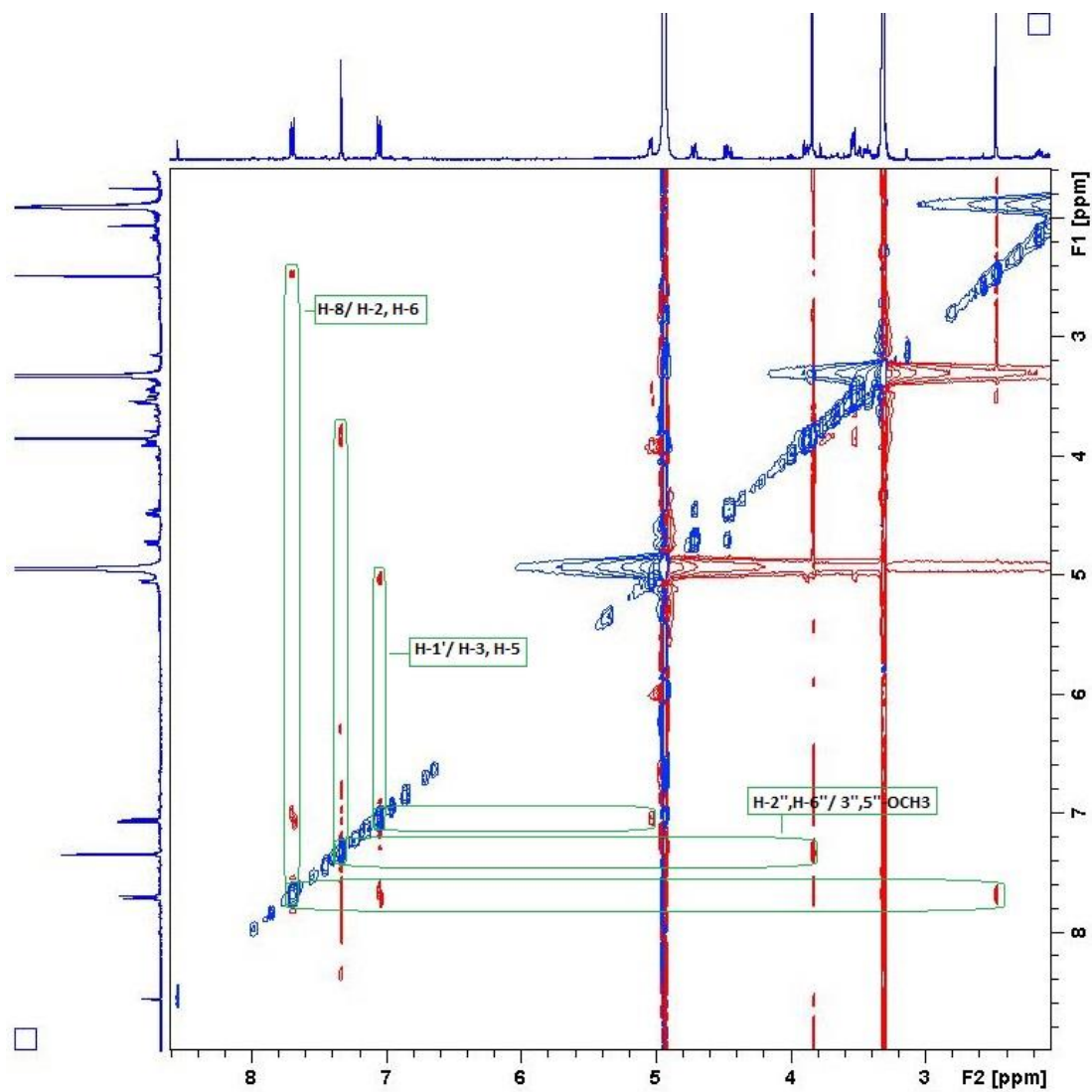
COSY spectrum of **11** (CD_3OD , 400 Hz)



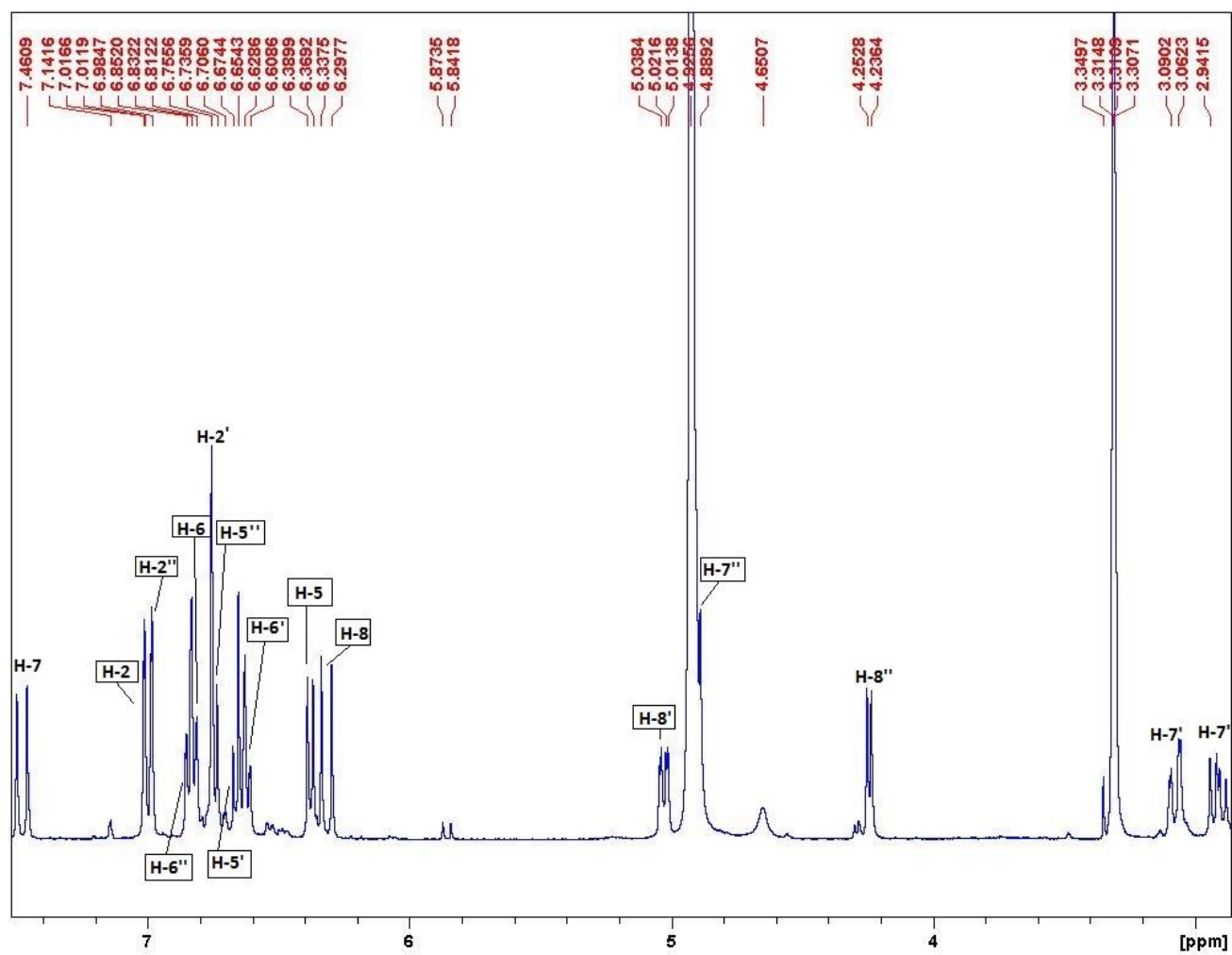
HSQC spectrum of 11 (CD₃OD, 400 Hz)



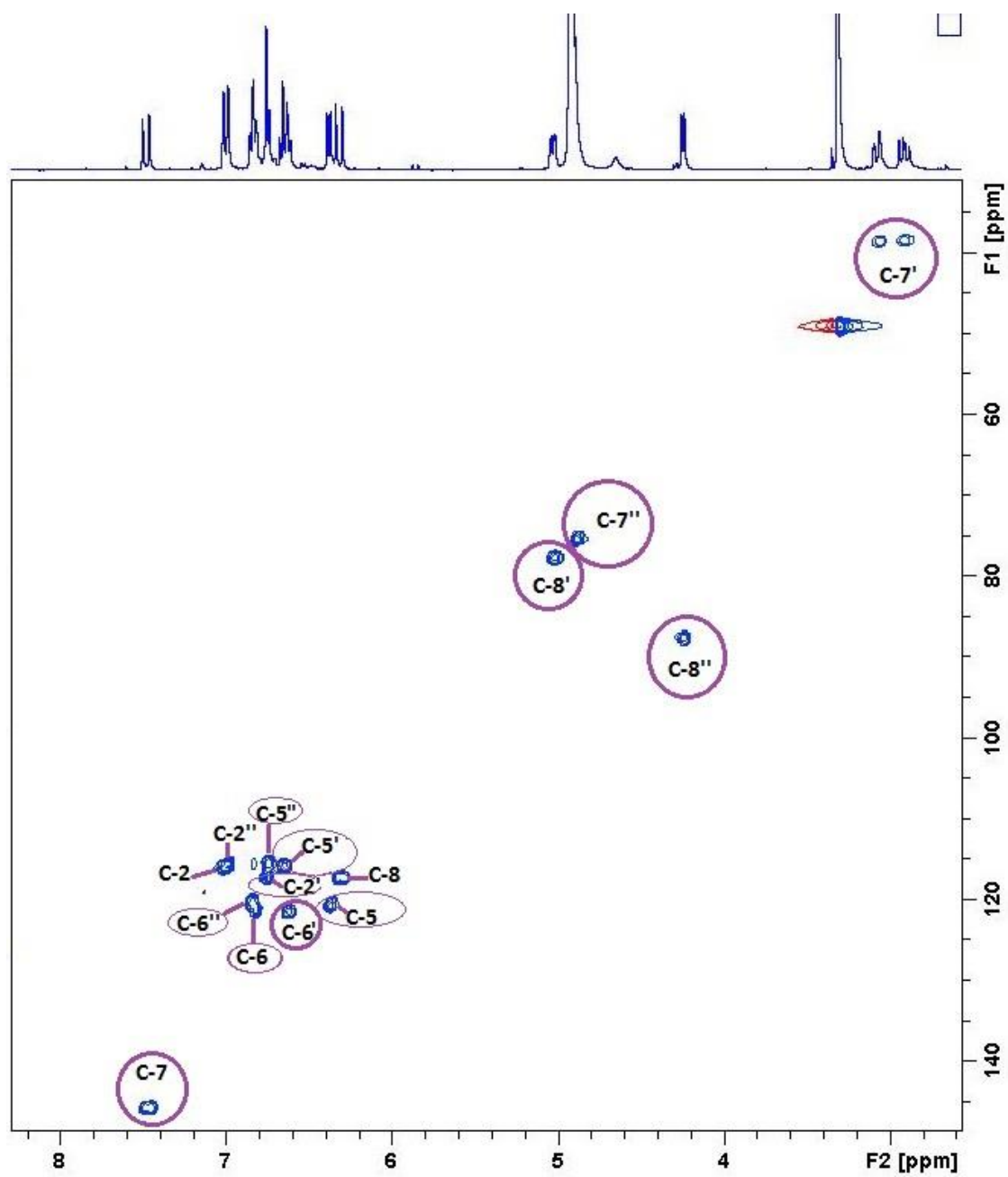
HMBC spectrum of 11 (CD₃OD, 400 Hz)



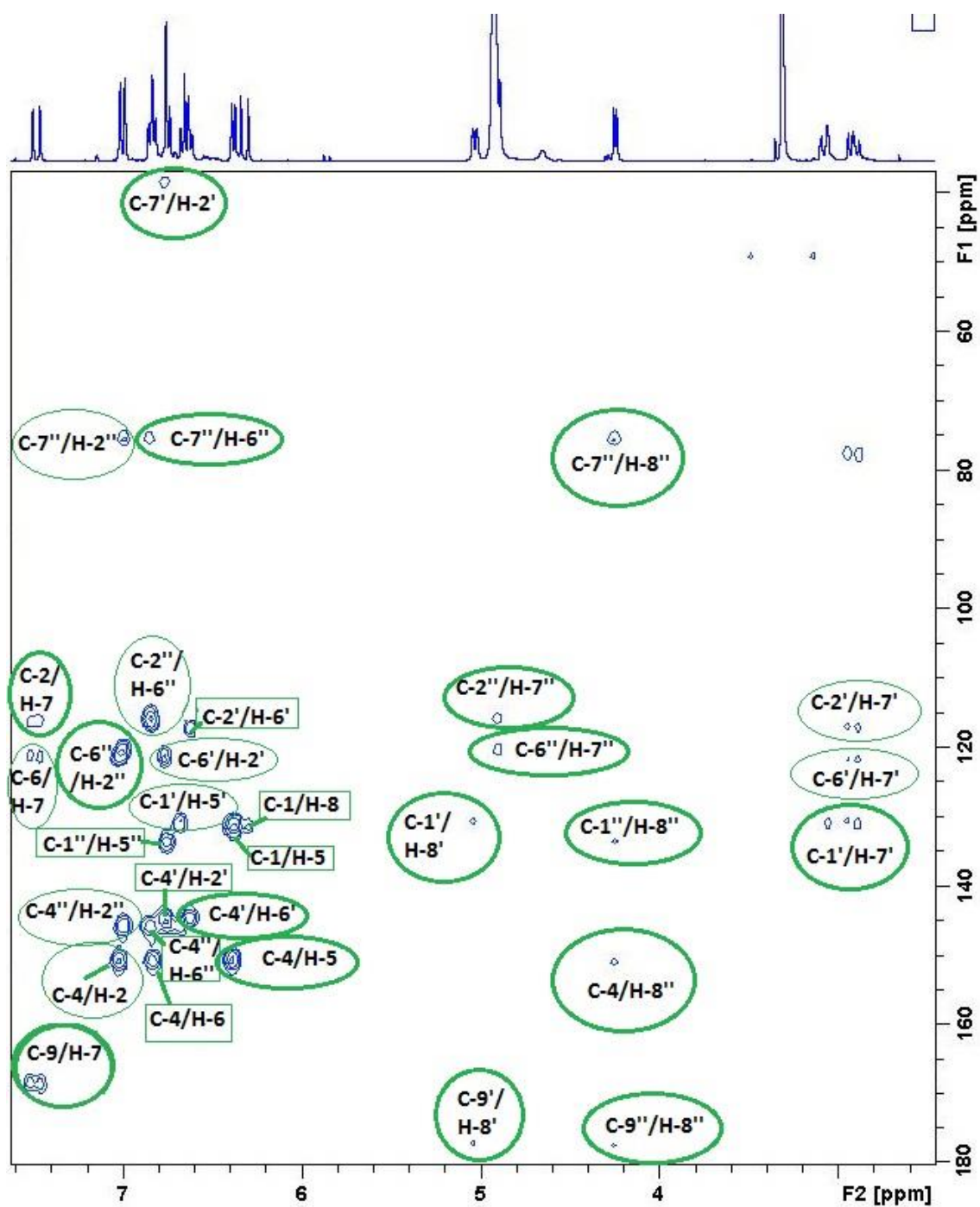
ROESY spectrum of **11** (CD₃OD, 400 Hz)



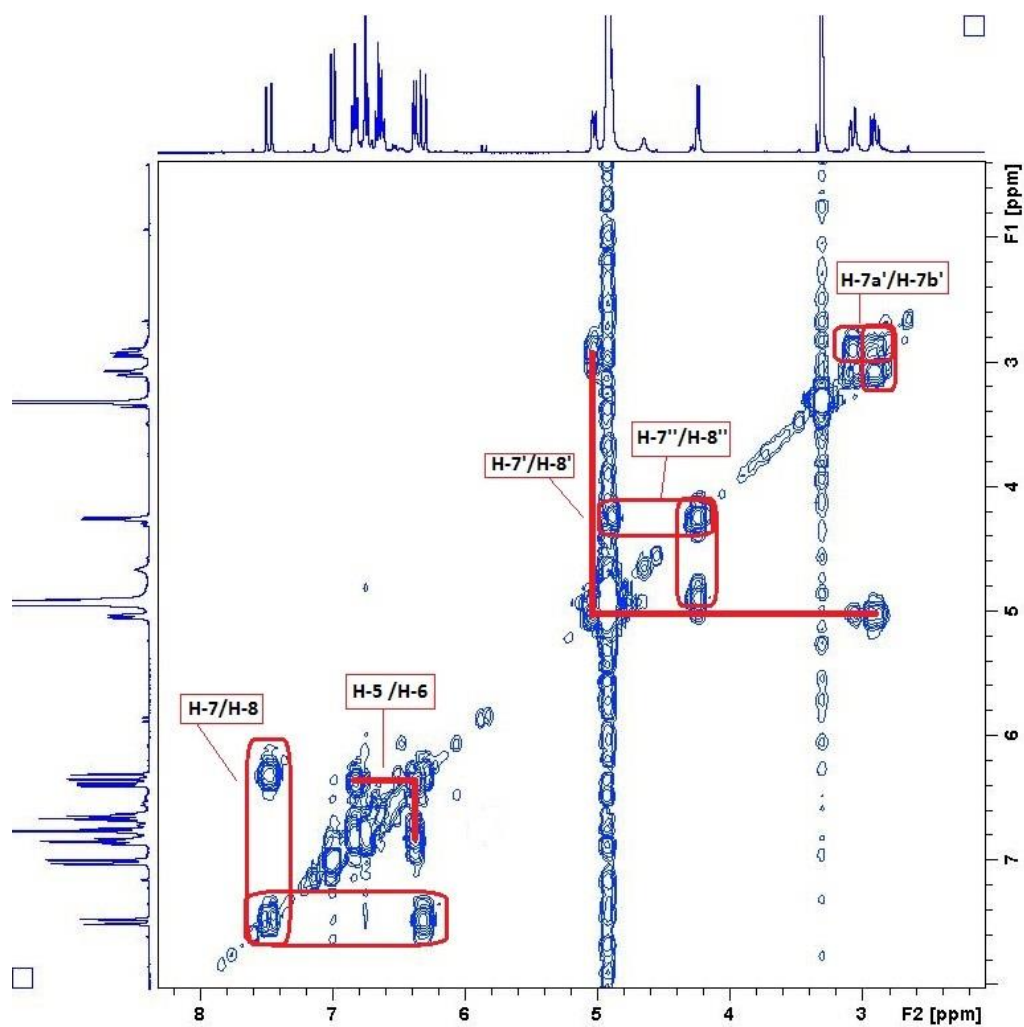
^1H -NMR spectrum of 13 (CD_3OD , 400 Hz)



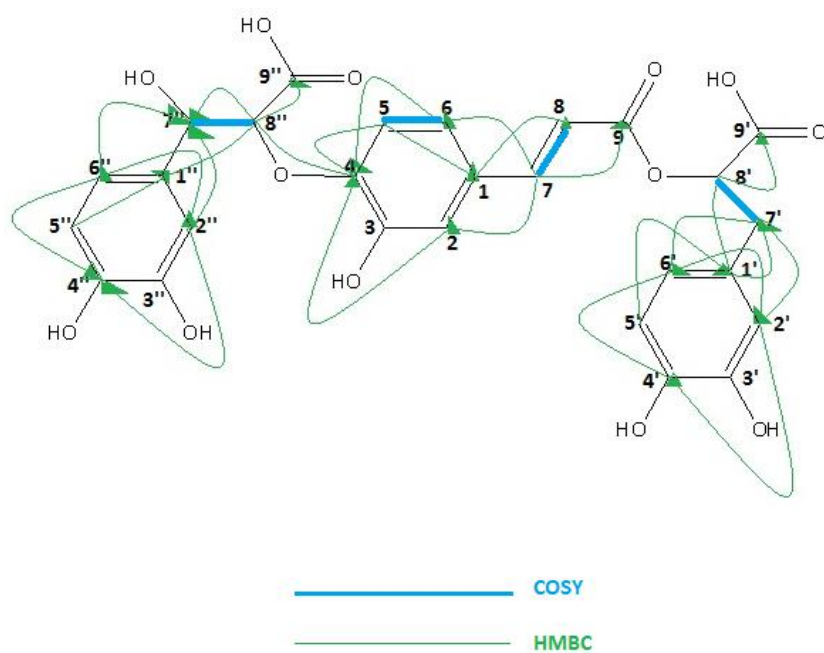
HSQC spectrum of **13** (CD₃OD, 400 Hz)



HMBC spectrum of **13** (CD₃OD, 400 Hz)



COSY spectrum of **13** (CD₃OD, 400 Hz)



COSY & HMBC signals of compound 13

Table S1. Non volatile secondary metabolites of *Salvia* L.

S1.1. Phenols and hydroxycinnamic acids		
<i>S. candidissima</i> Vahl	2,4-dimethoxy-benzoic acid	[1]
<i>S. cavaleriei</i> H.Lév.	salvianolic acids A, C, H, I isosalvianolic acid C rosmarinic acid lithospermic acid	[2, 3]
<i>S. digitaloides</i> Diels	hydroxy-tyrosol	[4]
<i>S. flava</i> Forrest ex Diels	salviaflaside	[5]
<i>S. flava</i> Forrest ex Diels	rosmarinic acid, salvianolic acid J	[6]
<i>S. miltiorrhiza</i> Bunge	isoferulic acid 3,4-dihydroxyphenyllactic acid = danshensu 3,4-dihydroxy-phenyl-lactamide rosmarinic acid	[7-10]
<i>S. miltiorrhiza</i> Bunge	salvianolic acids A-G	[7, 11-14]
<i>S. officinalis</i> L.	sagerinic acid, 6-feruloyl- α -glucose 6-caffeoyl-1-fructosyl- α -glucoside 1- <i>p</i> -hydroxybenzoyl-6-apiosylglucoside 2-(3-methoxy-4-glucosyloxyphenyl)-3-hydroxymethyl-5-(3-hydroxypropyl)-7-methoxy-2,3-dihydrobenzofuran syringic acid, astringin <i>trans</i> -resveratrol, <i>cis</i> -resveratrol	[15-18]
<i>S. officinalis</i> L.	salvianolic acids K, L, Y	[15, 19, 20]
<i>S. officinalis</i> L.	caffeic acid, ferulic acid, 4-hydroxybenzoic acid, vanillic acid, rosmarinic acid	[15, 21, 22]
<i>S. officinalis</i> L.	4-methoxybenzoic acid (<i>p</i> -anisic acid)	[23]
<i>S. prionitis</i> Hance	prionitisides A, B, rosmarinic acid	[24]
<i>S. przewalskii</i> Maxim.	przewalskinic acid A	[25]
	dimethyl lithospermate B	[26]
<i>S. sclareoides</i> Brot.	caffeic acid, ferulic acid, vanillic acid, gentisic acid, chlorogenic acid	[27]
<i>S. sonchifolia</i> C.Y.Wu	protocatechuic acid, caffeic acid 3,4-dihydroxyphenyllactic acid = danshensu rosmarinic acid, lithospermic acid	[28]
<i>S. yunnanensis</i> C.H.Wright	yunnaneic acids A-E	[29, 30]
S1.2. Coumarins and acetophenones		
<i>S. aegyptiaca</i> L.	7-methoxycoumarin (herniarin)	[31]
<i>S. cedronella</i> Boiss.	3-methoxy-4-hydroxy-7-methyl-coumarin	[32]
<i>S. euphratica</i> Montbret & Aucher ex Benth.	6,7-dihydroxycoumarin (esculetin)	[33]
<i>S. officinalis</i> L.	sagecoumarin	[34]

<i>S. officinalis</i> L.	4-hydroxyacetophenone-4-glucoside (picein) 4-hydroxyacetophenone-4-(6-apiosyl)glucoside 4-hydroxyacetophenone-4-(2-(5-syringoyl)apiosyl) glucoside	[16, 21, 35]
<i>S. plebeia</i> R.Br.	scopoletin	[36]
S1.3. Lignans		
<i>S. chinensis</i> Benth.	syringaresinol	[36]
<i>S. officinalis</i> L.	1-hydroxypinoresinol-1-O-glucoside isolariciresinol-3 α -glucoside	[37]
<i>S. plebeia</i> R.Br.	feruloylisolariciresinol 12-methylmyristate isolariciresinol di (12-methylmyristate)	[38, 39]
<i>S. santolinifolia</i> Boiss.	salvicins A, B santolinol, didemethylpinoresinol	[40,41]
<i>S. scapiformis</i> Hance	(+)-medioresinol, (+)-pinoresinol (+)-8 α -hydroxypinoresinol (+)-8 α -hydroxypinoresinol-8-O- β -D-glucoside (+)-8 α -hydroxypinoresinol-8-O- β -D-[6''-O-(4'''-hydroxybenzoyl)]- β -D-glucoside	[42]
S1.4. Flavonoids [43]		
S1.4.1. Flavones		
<i>S. blepharophylla</i> Brandege ex Epling	6-hydroxyluteolin-7-methyl ether (pedalitin) 6-hydroxyluteolin-7-4'-dimethyl ether (nuchensin)	[44]
<i>S. candidissima</i> Vahl.	chrysoeriol luteolin-4'-methyl ether (diosmetin)	[45]
<i>S. cardiophylla</i> Benth.	6-hydroxyluteolin-6,3',4'-trimethylether (eupatilin) 6-hydroxyluteolin-6,7,3',4'-tetramethylether	[46]
<i>S. hypoleuca</i> Benth.	apigenin-7, 4'-dimethyl ether luteolin 6-hydroxyapigenin-6,4'-dimethyl ether (pectolinarigenin) 6-hydroxyapigenin-7,4'-dimethyl ether 6-hydroxyapigenin-6,7,4'-trimethyl ether (salvigenin) 6-hydroxyluteolin-6,7-dimethyl ether (cirsiol)	[47]
<i>S. lavandulaefolia</i> Vahl	apigenin, genkwanin, 5,7,3',4'-tetrahydroxyflavone (luteolin) luteolin-7-methylether luteolin-3'-methyl ether (chrysoeriol) 6-hydroxyluteolin-6,7,3'-trimethyl ether (cirsilincol) 6-hydroxyluteolin-6,7,4'-trimethyl ether (eupatorin)	[48]
<i>S. nicolsoniana</i> Ramamoorthy	genkwanin, acacetin, apigenin-7, 4'-dimethyl ether luteolin-3',4'-dimethyl ether	[49]
<i>S. officinalis</i> L.	apigenin, genkwanin, apigenin-7, 4'-dimethyl ether luteolin, luteolin-7-methyl ether 6-hydroxyapigenin (scutellarein) 6-hydroxyapigenin-6-methyl ether (hispidulin) 6-hydroxyapigenin-6,7-dimethyl ether (cirsimaritin)	[22, 50]

<i>S. officinalis</i> L.	6-hydroxyapigenin-5,6,7,4'-tetramethyl ether	[51]
<i>S. officinalis</i> L.	6-hydroxyluteolin-6-methyl ether (nepetin, eupafolin)	[50]
<i>S. officinalis</i> L.	8-hydroxyapigenin (isoscutellarein)	[22]
<i>S. palaestina</i> Benth.	apigenin, genkwanin, apigenin-7, 4'-dimethyl ether luteolin, chrysoeriol, luteolin-7,4'-dimethyl ether 6,7,3',4'-tetramethoxyflavone	[52]
<i>S. plebeian</i> R.Br.	hispidulin, nepetin, eupafolin, eupatorin 8-hydroxyapigenin-7-methyl ether (salvitin)	[53-55]
<i>S. tomentosa</i> Mill.	5-hydroxy-6,7,3',4'-tetramethoxyflavone, cirsilineol, jaceosidin, 6-methoxy-luteolin	[92]
<i>S. triloba</i> L.f.	salvigenin, 6-hydroxyluteolin-6,3'-dimethyl ether (jaceosidin)	[56, 57]
<i>S. virgata</i> Jacq.	luteolin-7,3',4'-trimethyl ether	[58]
<i>S. willeana</i> (Holmboe) Hedge	6-hydroxyapigenin-6,7,4'-trimethyl ether (salvigenin)	[59]
<i>S. yosgadensis</i> Freyn & Bornm.	5,7,4'-trihydroxyflavone (apigenin) apigenin-7-methyl ether (genkwanin) apigenin-4'-methyl ether (acacetin) apigenin-7, 4'-dimethyl ether	[1]
S1.4.2. Dihydroflavones		
<i>S. miltiorrhiza</i> Bunge	5,3'-dihydroxy-7,4'-dimethoxyflavanone	[60]
<i>S. nicolsoniana</i> Ramamoorthy	5,7-dihydroxy-4'-methoxyflavanone (isosakuranetin)	[49]
<i>S. officinalis</i> L.	5,7,3'-trihydroxy-4'-methoxyflavanone (hesperitin)	[22]
<i>S. texana</i> (Scheele) Torr.	5-hydroxy-7-methoxyflavanone	[61]
S1.4.3. Flavonols		
<i>S. columbariae</i> Benth.	6-hydroxy-kaempferol-5,6-dimethyl ether 6-hydroxygalangin-5,6-dimethyl ether	[47]
<i>S. compressa</i> Vent.	quercetin-3-methyl ether	[47]
<i>S. cyanescens</i> Boiss. & Balansa	kumatakenin 6-hydroxykaempferol-3,6-dimethyl ether	[62]
<i>S. dorrii</i> (Kellogg) Abrams	5,7,4'-trihydroxyflavonol (kaempferol) 5,7,3',4'-tetrahydroxyflavonol (quercetin)	[47]
<i>S. farinacea</i> Benth.	quercetin-3'-methyl ether (isorhamnetin)	[67]
<i>S. glutinosa</i> L.	kaempferol-3-methyl ether (isokaempferide) kaempferol-3,7-dimethyl ether (kumatakenin) quercetin-3,7,4'-trimethyl ether (ayanin) quercetin-3,7,3',4'-tetramethyl ether (retusin)	[63]
<i>S. longipedicellata</i> Hedge	6-hydroxykaempferol-3,6,4'-trimethyl ether (santin) quercetin-3,3'-dimethyl ether	[33]
S1.4.4. Glycosides		
<i>S. aegyptiacae</i> L.	apigenin-7-glucoside (cosmosiin), luteolin-7-glucoside (cinaroside)	[64]

	luteolin-7-cellobioside, luteolin-6,8-di-C-glucoside	
<i>S. blepharophylla</i> Brandegees ex Epling	apigenin-8-C-glucoside (vitexin) apigenin-8-C-arabinoside (schaftoside) quercetin-3-glucoside (isoquercetin) quercetin-3-glucuronide (miquelianin) quercetin-7-methyl ether-3-glucoside (rhamnetin-3-glucoside), quercetin-3-robinoside	[44]
<i>S. cavaleriei</i> H.Lév.	kaempferol-3-glucoside (astragalin)	[65]
<i>S. coccinea</i> Buc'hoz ex Etl.	cyanidin-3-(6-caffeoylglucoside)-5-(4,6-dimalonylglucoside) cyanidin-3-(6-caffeoylglucoside)-5-(6-malonyl-glucoside) cyanidin-3-(6-caffeoylglucoside)-5-glucoside cyanidin-3-(6-p-coumaroyl-glucoside)-5-(4,6-dimalonylglucoside) cyanidin-3-(6-p-coumaroyl-glucoside)-5-(6-malonyl-glucoside) cyanidin-3-(6-p-coumaroyl-glucoside)-5-glucoside	[66]
<i>S. farinacea</i> Benth.	kaempferol-3-(2 ^G -rhamnosylrutinoside) kaempferol-3-robinoside quercetin-3'-methyl ether-3-galactosidequercetin-3'-methylether-3-(2 ^G -rhamnosylrutinoside)	[67]
<i>S. farinacea</i> Benth.	malvidin-3-(6-p-coumaroyl-glucoside)-5-(6-malonyl-glucoside) (salviamalvin)	[68]
<i>S. horminum</i> L.	apigenin-7-glucoside, apigenin-7-rutinoside	[69]
<i>S. lavandulifolia</i> Vahl	luteolin-7-glucoside, luteolin-4'-glucuronide, luteolin-7-rutinoside	[70]
<i>S. lavandulifolia</i> ssp. <i>oxyodon</i> = <i>S. officinalis</i> ssp. <i>oxyodon</i> (Webb & Heldr.) Reales, D. Rivera & Obón	luteolin-5-rutinoside	[71]
<i>S. officinalis</i> L.	apigenin-7-glucoside, luteolin-7-glucoside, luteolin-7-glucuronide, luteolin-3'-glucuronide 6-hydroxy-luteolin-7-glucoside 6-hydroxy-luteolin-7-glucuronide apigenin-6,8-di-C-glucoside (vicenin-2) salvigenin	[35, 72, 81]
<i>S. palaestina</i> Benth.	apigenin-7-glucoside, luteolin-7-glucoside, luteolin-7-glucuronide luteolin-3'-methyl ether-7-glucoside (chrysoeriol-7-glucoside), luteolin-3' methyl ether-7-glucuronide	[52]
<i>S. patens</i> Cav.	apigenin-7,4'-diglucoside	[73]
<i>Salvia</i> spp.	apigenin-7-xyloside	[74]
<i>S. splendens</i> Sellow ex Schult.	pelargonidin-3-(6-caffeoylglucoside)-5-(4,6-dimalonylglucoside) (salvianin) pelargonidin-3-(6-caffeoylglucoside)-5-(6-malonyl-glucoside) pelargonidin-3-(6-caffeoylglucoside)-5-glucoside	[68, 75]

	pelargonidin-3-(6-p-coumaroyl-glucoside)-5-(4,6-dimalonylglucoside) (monardaein) pelargonidin-3-(6-p-coumaroyl-glucoside)-5-(6-malonyl-glucoside) pelargonidin-3-(6-p-coumaroyl-glucoside)-5-glucoside	
<i>S. splendens</i> Sellow ex Schult.	delphinidin-3-(6-caffeoylglucoside)-5-(4,6-dimalonylglucoside) (salviadelphin) delphinidin-3-(6-caffeoylglucoside)-5-(6-malonyl-glucoside) delphinidin-3-(6-caffeoylglucoside)-5-glucoside delphinidin-3-(6-p-coumaroyl-glucoside)-5-(4,6-dimalonylglucoside) delphinidin-3-(6-p-coumaroyl-glucoside)-5-glucoside (awobanin)	[68, 76]
<i>S. triloba</i> L.f.	apigenin-7-glucoside, apigenin-7-glucuronide, luteolin-7-glucoside, luteolin-3'-methylether-7-glucuronide, luteolin-3'-glucoside-7-glucuronide luteolin-7-cellobioside, 6-hydroxy-apigenin-6-methylether-7-glucoside 6-hydroxy-apigenin-6-methylether-7-glucuronide 6-hydroxy-luteolin-6-methyl ether-7-glucoside (nepitrin) 6-hydroxy-luteolin-6-methyl ether-7-glucuronide	[57]
<i>S. uliginosa</i> Benth.	apigenin-7,4'-diglucoside, apigenin-7-cellobioside apigenin-7- cellobioside-4'-glucoside	[77]
<i>S. uliginosa</i> Benth.	delphinidin-3-(6-p-coumaroyl-glucoside)-5-(6-malonyl-glucoside) delphinidin-3-(6-p-coumaroyl-glucoside)-5-(4-acetyl-6-malonyl-glucoside)	[78]
<i>S. verbenaca</i> L.	luteolin-7-glucoside 6-hydroxy-luteolin-6,7-dimethyl ether-5-glucoside	[64, 79]
<i>S. verticillata</i> L.	luteolin-7-glucoside, 6-hydroxy-luteolin-5-glucoside, 6-hydroxy-apigenin-6,7,4'-trimethylether-5-glucoside (salvigenin-5-glucoside)	[80]
S1.5. Anthaquinones		
<i>S. digitaloides</i> Diels	chysophanol, physcion, emodin	[4]
<i>S. officinalis</i> L.	physcion	[81]
<i>S. przewalskii</i> Maxim.	Przewalskinone B, ziganein	[82]
S1.6. Terpenes		
S1.6.1. Iridoids, SLs		
<i>S. digitaloides</i> Diels	salvialosides A-E	[4]
<i>S. plebeian</i> R.Br.	1 α -acetoxy-8 α -hydroxy-2-oxoeudesman-3,7(11)-dien-8,12-olide 1 α -acetoxy-8 α ,9 β -dihydroxy-2-oxo-eudesman-3,7(11)-dien-8,12-olide	[83]

S1.6.2. Diterpenes and sesterterpenes		
<i>S. albocaerulea</i> Lindl.	15-hydroxy-7-oxo-abieta, 8,11,13-triene, sugiol	[84]
<i>S. ballotaeflorae</i> Benth.	conacytone	[85]
<i>S. digitaloides</i> Diels	salviatalin A, salvitrijudin A	[86]
<i>S. divinorum</i> Epling & Játiva	Salvinorins A-F, divinorins A-C	[87, 88]
<i>S. dorrii</i> (Kellogg) Abrams	salvidorol	[89]
<i>S. forskahlei</i> L.	forskalinone	[90]
<i>S. heldrichiana</i> Boiss.	isopimaric acid, 7 β -hydroxysandaracopimaric acid 7-oxo-13-epi-pimara-8,15-dien-18-oic acid wiedelactone, wiedemannic acid, heldrichinic acid	[91]
<i>S. herbacea</i> Benth.	tehuanins A-I, acetyltehuanin C, 1(10)-dehydrosalviarin, 1 α ,10 α -epoxysalviarin, 16-bromotehuanin F	[92]
<i>S. hypargeia</i> Fisch. & C.A.Mey.	hypargenins A-F	[93]
<i>S. miltiorrhiza</i> Bunge	tanshinones I, II cryptotanshinone, danshexinkun A 1,2-dihydrotanshinquinone	[94]
<i>S. nemorosa</i> L.	nemorone	[84]
<i>S. officinalis</i> L.	sagequinone methide A, carnosol, manool, 6,7-dimethoxy-7-epi-rosmanol, 7-methoxy-rosmanol	[95]
<i>S. officinalis</i> L.	rosmadial, epi-rosmanol	[96]
<i>S. officinalis</i> L.	columbaridione, 12-O-methylcarnosic acid, galdosol, atuntzensin A, miltirone, safficinolide sageone, dimethyl sageone rel-(5S, 6S, 7S, 10R, 12S, 13R)-7-hydroxyapiana-8,14-diene- 11,16-dion-(22,6)-olide rel-(5S, 6S, 7R,10R, 12S, 13R)-7-hydroxyapiana-8,14-diene- 11,16-dion-(22,6)-olide rel-(5S, 6S, 7S, 10R, 12R, 13S)-7-hydroxyapiana-8,14-diene- 11,16-dion-(22,6)-olide carnosol, rosmadial, rosmanol, epirosmanol, isorosmanol, columbaridione, atuntzensin A, miltirone, carnosic acid, 12- O-methyl carnosic acid	[95] [81]
<i>S. palaestina</i> Benth.	2-oxocandesalvone A 12-O-methyl-2-oxocandesalcone A 12-O-methyl-candesalvone A methyl 12-O-methyl-saluipalestinoate salvipalestinoic acid, candelabrone	[97]
<i>S. plebeia</i> R.Br.	carnosic acid, methyl carnosate, rosmanol	[98]
<i>S. przewalskii</i> Maxim.	salprzelactone, dehydrodanshenol A, deacetylsalvianonol, isograndifoliol	[99]
<i>S. regla</i> Cav.	sessein, deacetylsessein 19-hydroxy-7 α -acetoxyroyleanone	[100]

	19-acetoxy-7 α -acetoxyroyleanone	
<i>S. sahendica</i> Boiss. & Buhse	1,4-dihydro-6-methyl-2-(1-methylethyl)-5-(4-methylpent-4-enyl)naphthalene-1,4-dione sahandinone, sahandone, prionitin, horminone	[101]
<i>S. sahendica</i> Boiss. & Buhse	nor-ambreinolide-18,6 α -olide 8 α -acetoxy-13,14,15,16-tetranorlabdan-12-oic acid-18,6 α -olide	[102]
<i>S. sahendica</i> Boiss. & Buhse	salvileucolide methylester 8 α -hydroxy-13-hydroperoxylabd-14,17-dien-19,16;23,6 α -diolide salvileucolide-6,23-lactone 17,18,19,20-tetra-nor-13-epi-manoyloxide-14-en-16-oic acid-23,6 α -olide	[102, 103]
<i>S. sclarea</i> L.	sclareol, 2,3-dehydrosalvipisone, 7-oxoferruginol-18-al	[104]
<i>S. sharifii</i> Rech.f. & Esfand.	ent-13-epi-manoyloxide	[105]
<i>S. willeana</i> (Holmboe) Hedge	carnosic acid, isorosmanol	[59]
S1.6.3. Triterpenes		
<i>S. aegyptiaca</i> L.	lupeol, β -amyirin, 3 α -hydroxy-24-alkylcarboxylate-12-oleanan-28-oic acid	[106]
<i>S. albocaerulea</i> Lindl.	ursolic acid, 2 α -hydroxyursolic acid, maslinic acid	[84]
<i>S. bicolor</i> Lam.	β -amyirin, lupeol	[107]
<i>S. chinensis</i> Benth.	α -boswellic acid	[36]
<i>S. digitaloides</i> Diels	oleanolic acid, glutinol, colchiside A, stachlic acid C	[4]
<i>S. forskahlei</i> L.	α -amyirin	[90]
<i>S. nicolsoniana</i> Ramamoorthy	ursolic acid, oleanolic acid, betulinic acid, 3 α -24-dihydroxy-olean-12-en-28-oic acid, 3 α -24-dihydroxy-olean-12-en-28,30-dioic acid	[108]
<i>S. officinalis</i> L.	ursolic acid, oleanolic acid	[72]
<i>S. palaestina</i> Benth.	ursolic acid, oleanolic acid, lupeol, lup-20(29)-ene-2 α ,3 β -diol, lup-20(29)-ene-3 β ,23-diol, 2 α -methoxylup-20(29)-en-3 β -ol	[96]
<i>S. pratensis</i> L.	β -amyirin, lupeol, loranthol, germanicol	[109]
<i>S. scapiformis</i> Hance	ursolic acid, 4-epi-niga-ichigoside F1 niga-ichigoside F1	[42]
<i>S. virgata</i> Jacq.	ursolic acid, oleanolic acid, maslinic acid 2 α -hydroxy-ursolic acid 2 α ,3 α -dihydroxyolean-12-en-28-oic acid 2 α ,3 α ,23-trihydroxy-olean-12-en-28-oic acid	[59]
<i>S. willeana</i> (Holmboe) Hedge	ursolic acid, oleanolic acid, crataegolic acid 2 α ,3 α -dihydroxyolean-12-en-28-oic acid urs-12-ene-3 β ,11 α -diol, urs-12-ene-3 α ,11 α -diol olean-12-ene-3 β ,11 α -diol oleanolic acid, lupeol	[59] [110]

S1.7. Abietane diterpene alkaloids		
<i>S. yunnanensis</i> C.H.Wright	salviamines A-F, isoalviamines C-E	[36]
S1.8. Apocarotenoids		
<i>S. nemorosa</i> L.	salvionosides A- C, blumeol C glucoside, (6 <i>S</i> ,9 <i>R</i>)-reseoside, (6 <i>S</i> ,9 <i>S</i>)-reseoside	[111]
<i>S. officinalis</i> L.	(6 <i>R</i> ,9 <i>S</i>)-3-Oxo- α -ionol β -D-glucopyranoside (6 <i>R</i> ,9 <i>R</i>)-3-Oxo- α -ionol β -D-glucopyranoside	[16]
<i>S. virgata</i> Jacq.	blumenol A	[59]

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