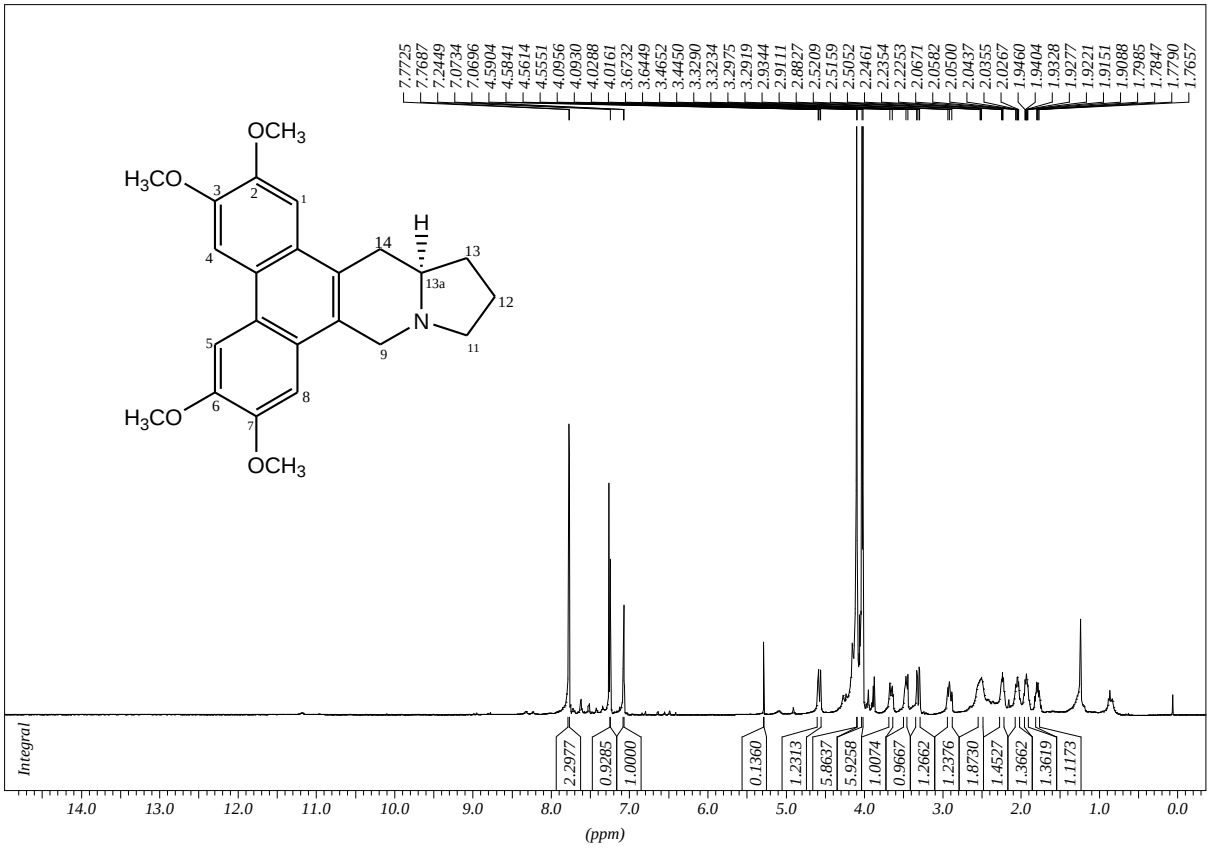
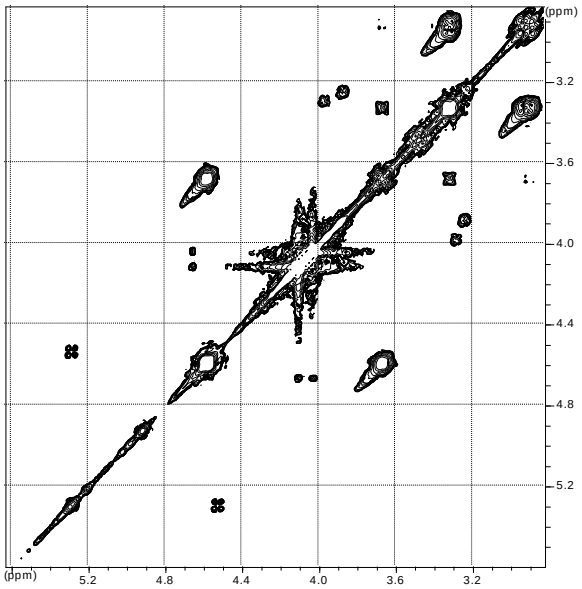
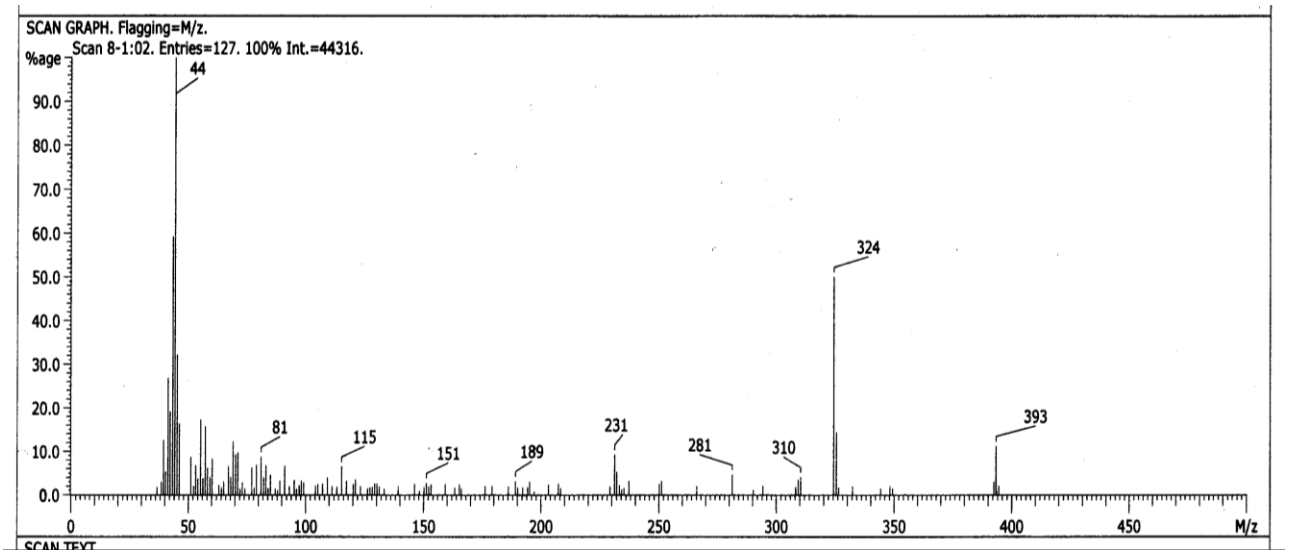
Compound 1: (-)-Tylophorine



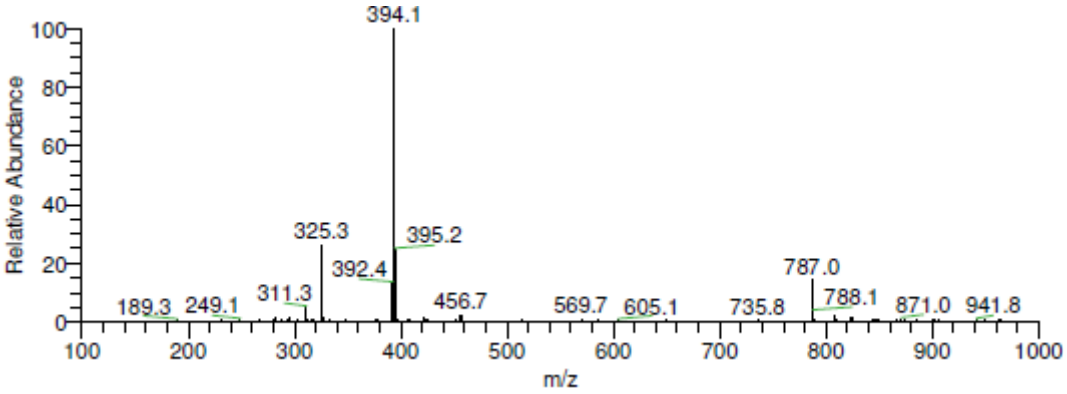
^{1}H-NMR spectrum, ($CDCl_3$, 500 MHz)



2D-^{1}H, ^{1}H-COSY spectrum, ($CDCl_3$, 500 MHz)

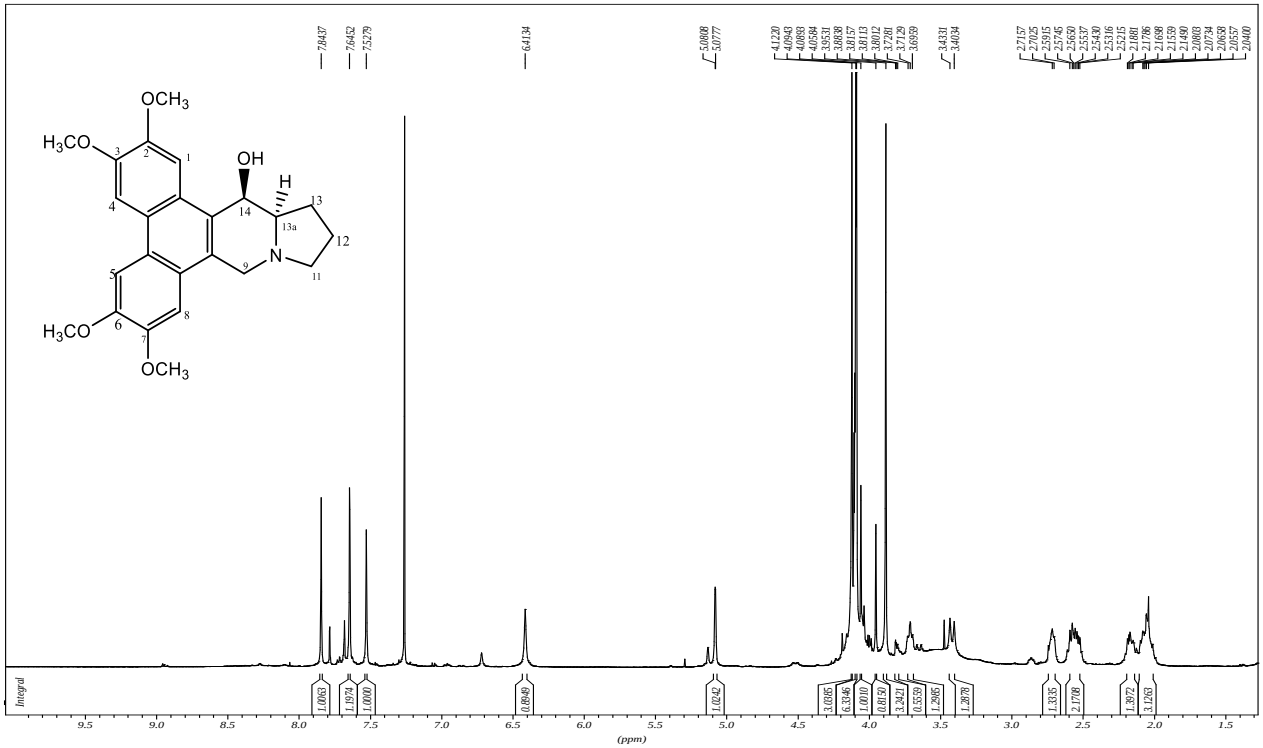


EI-MS

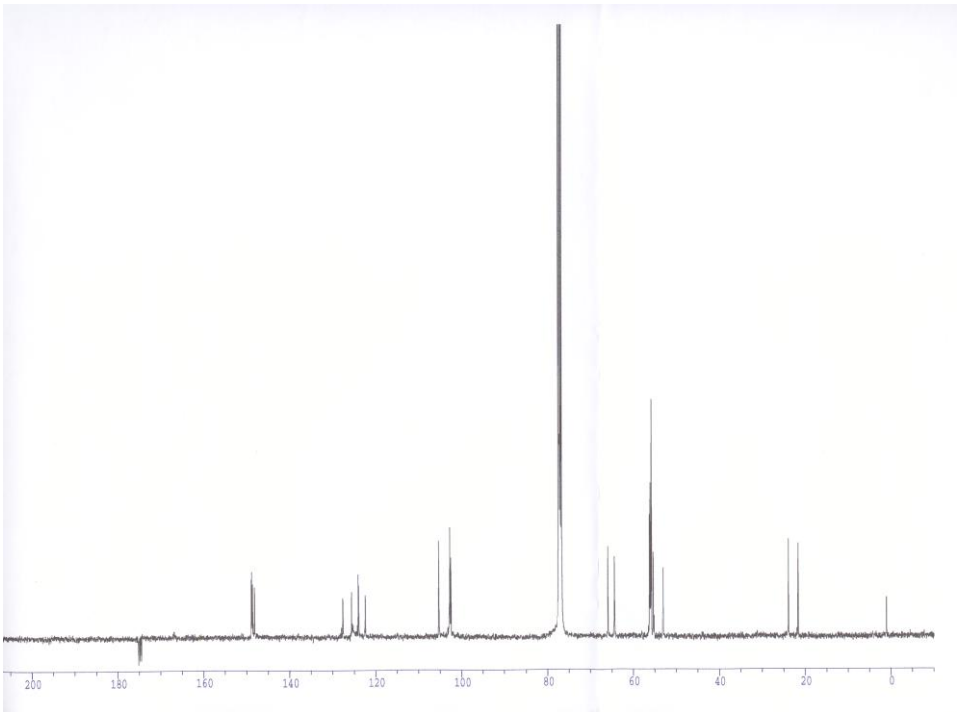


LC-ESI-MS

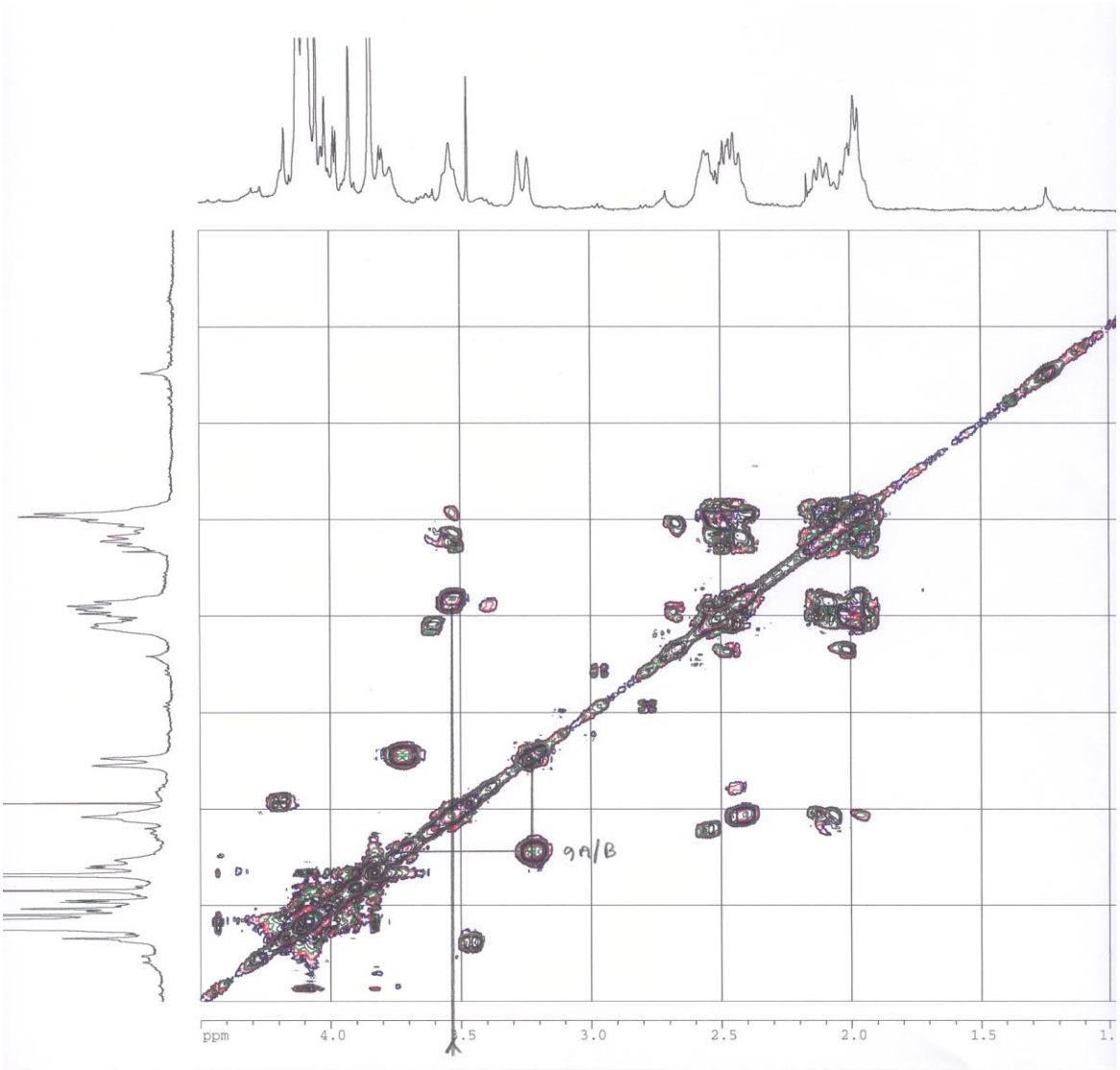
Compound 2: (-)-Tylophorinicine



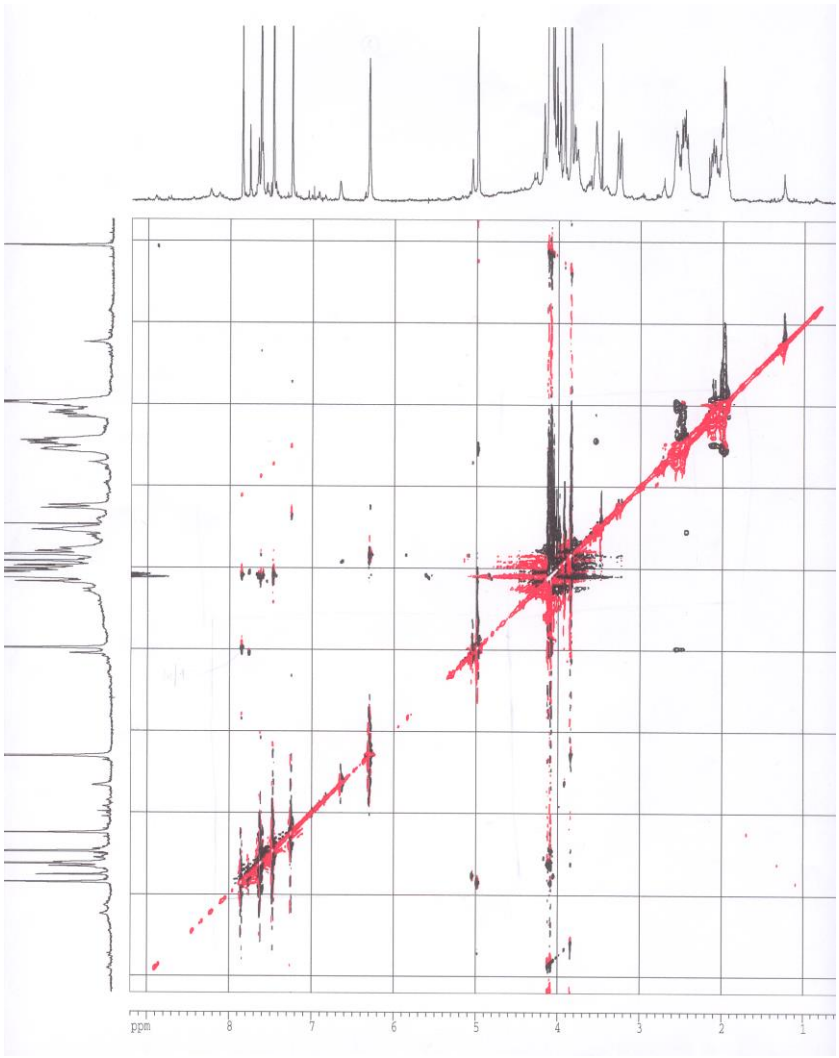
^{1}H-NMR spectrum, ($CDCl_3$, 500 MHz)



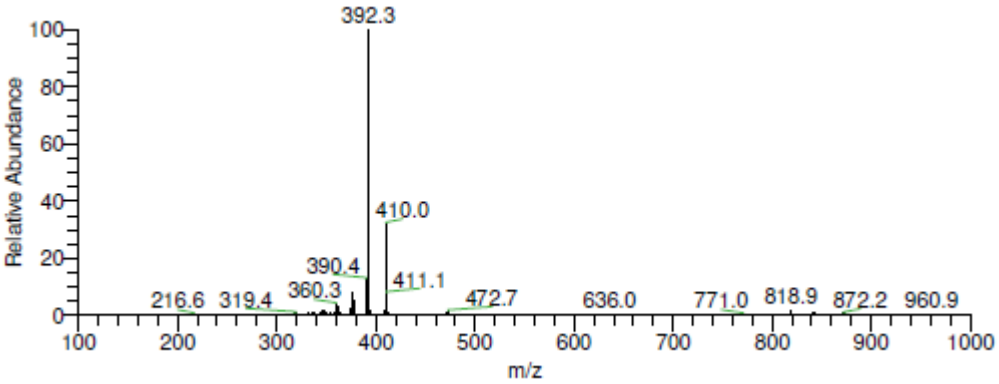
^{13}C-NMR spectrum, ($CDCl_3$, 500 MHz)



2D-^{1}H, ^{1}H-COSY spectrum, ($CDCl_3$, 500 MHz)

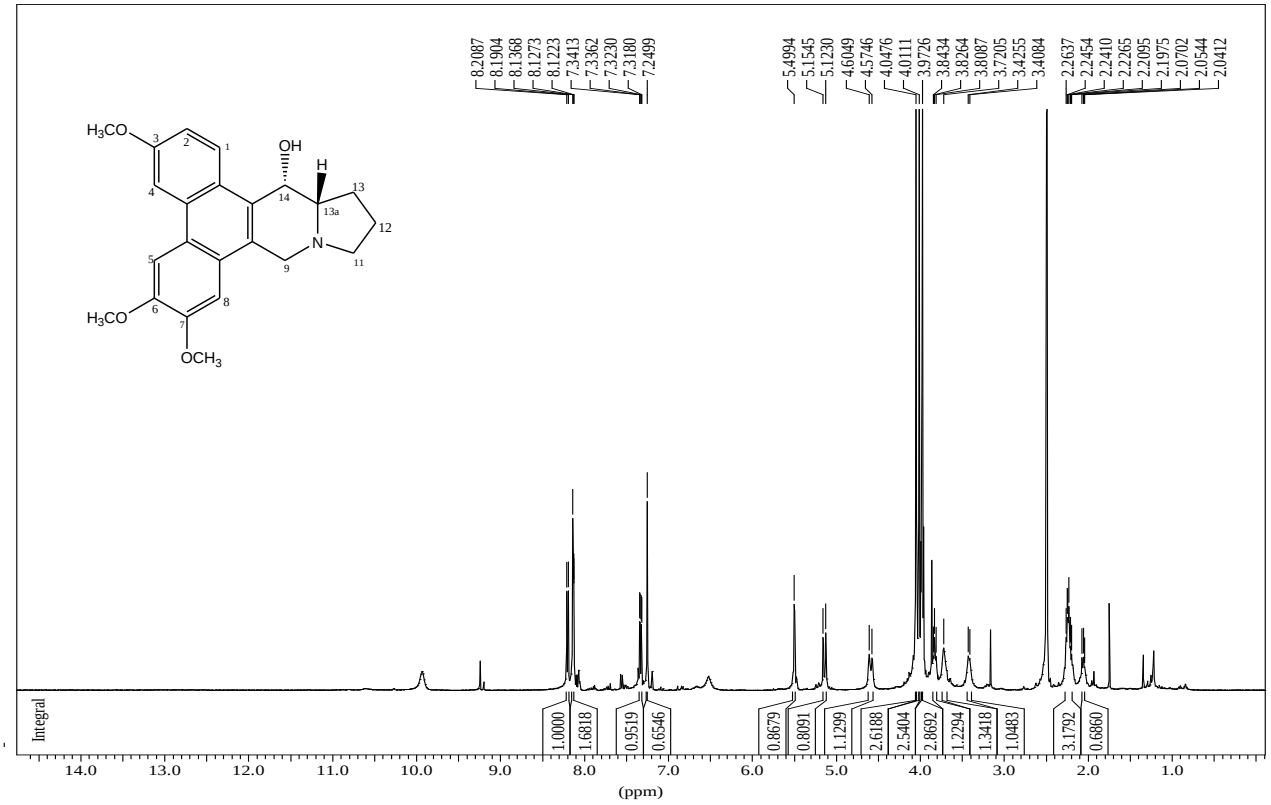


2D-^{1}H, ^{1}H-ROESY spectrum, ($CDCl_3$, 600 MHz)

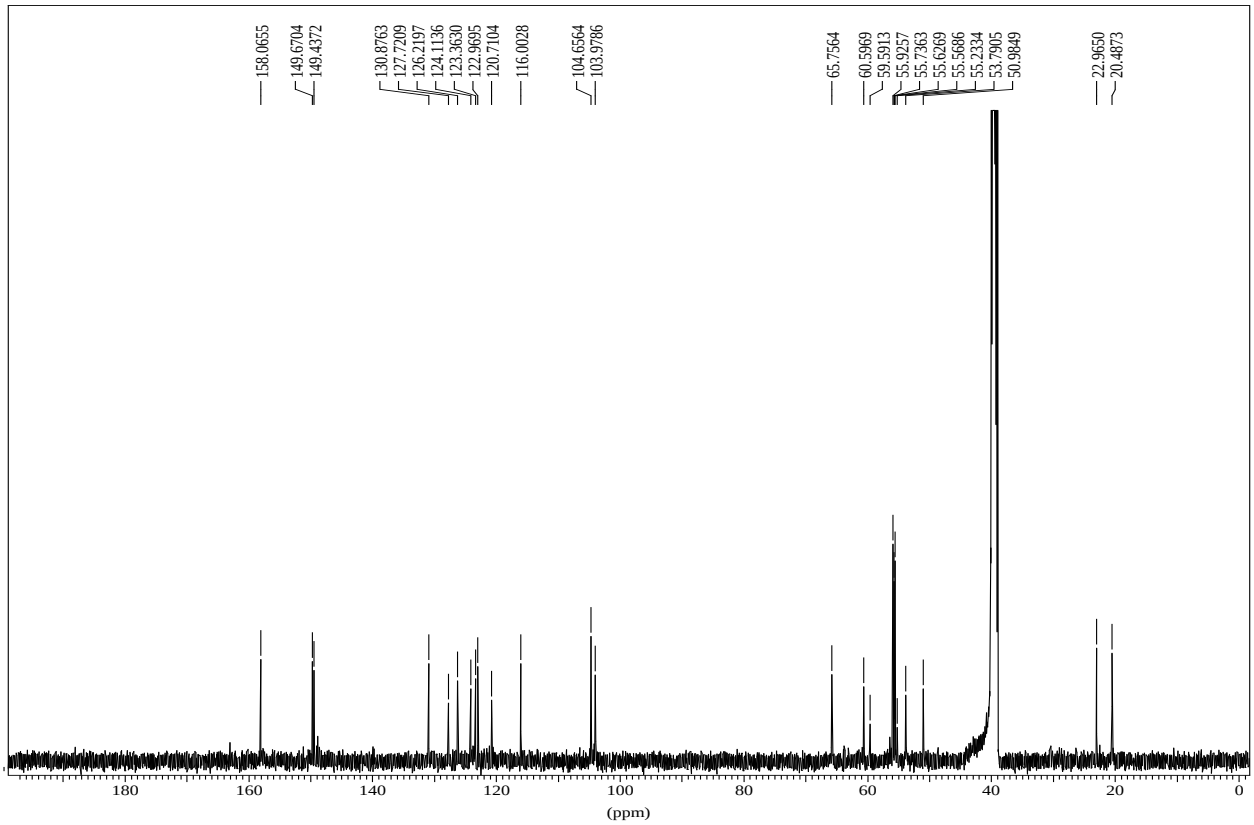


LC-ESI-MS

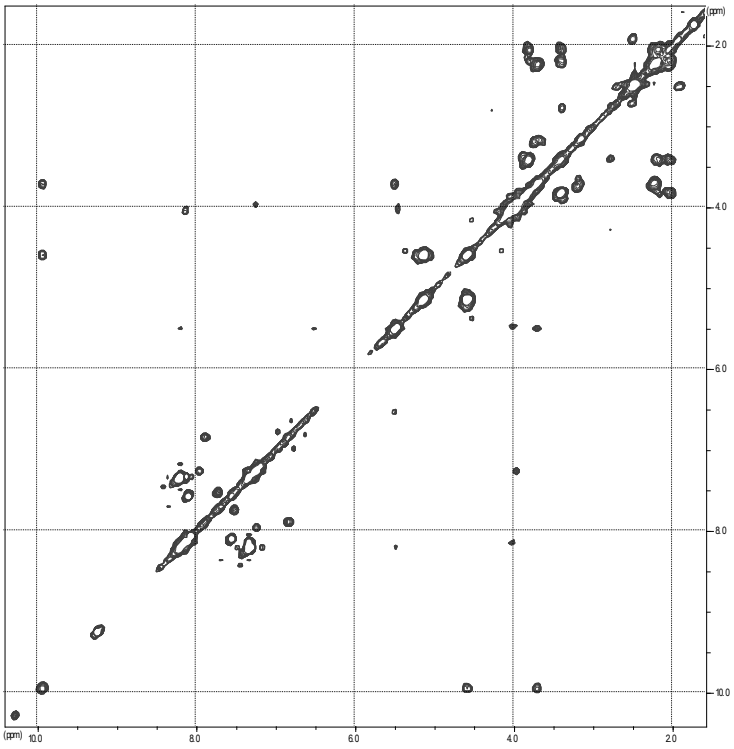
Compound 3: (+)-Tylophorinine



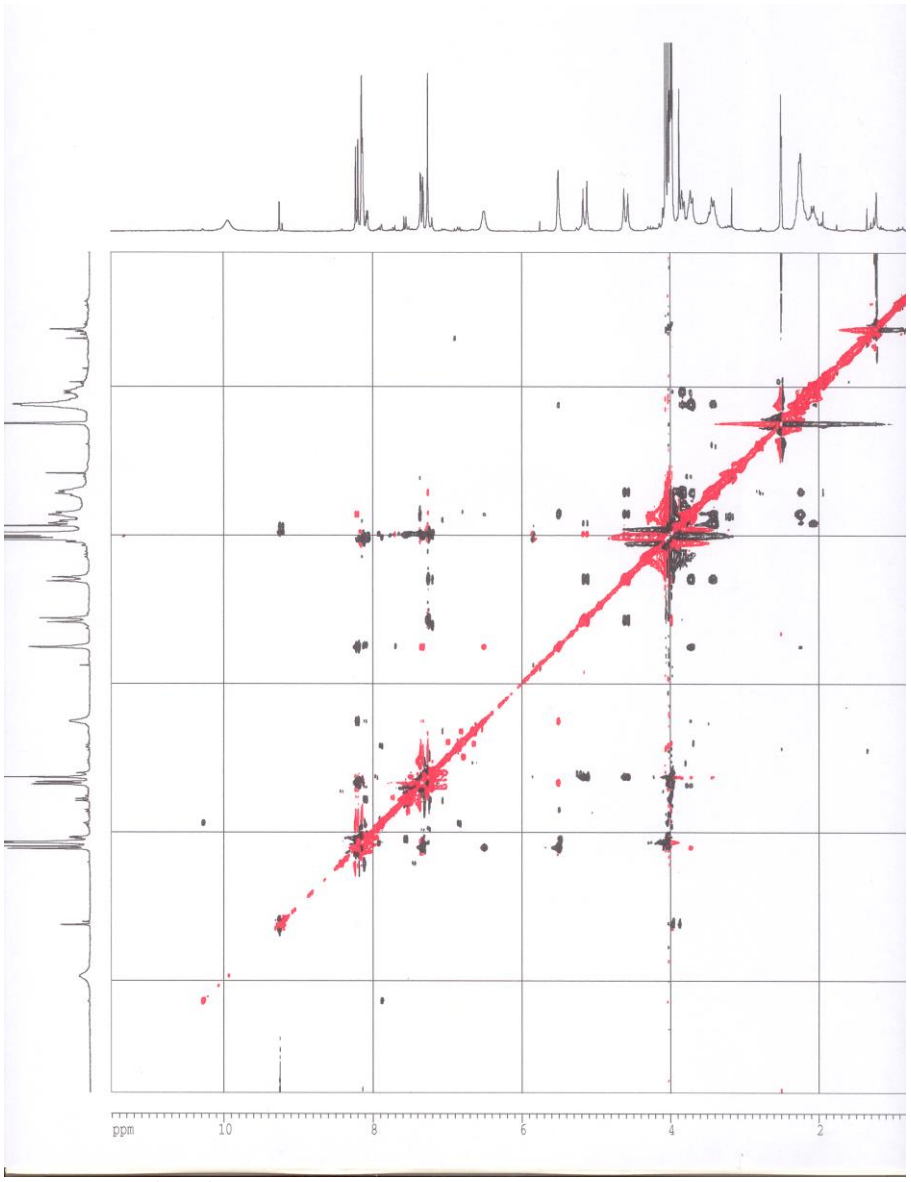
^{1}H-NMR spectrum, (DMSO-d_6, 500 MHz)



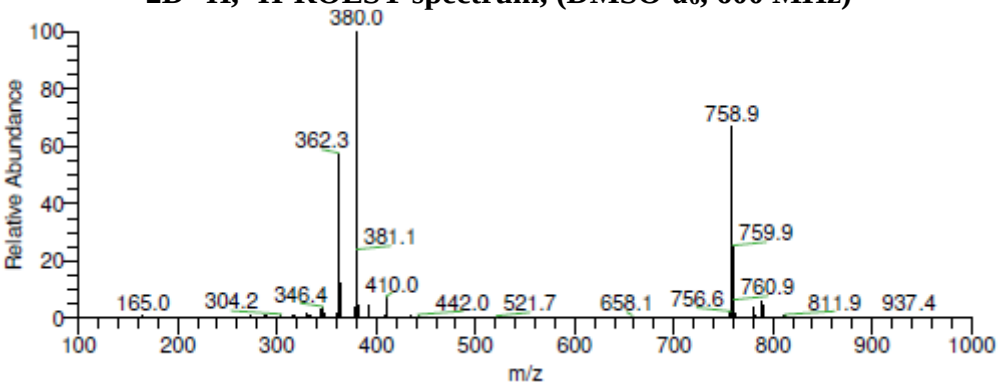
^{13}C-NMR spectrum, (DMSO-d_6, 100 MHz)



2D-^{1}H, ^{1}H-COSY spectrum, (DMSO-d_6, 500 MHz)

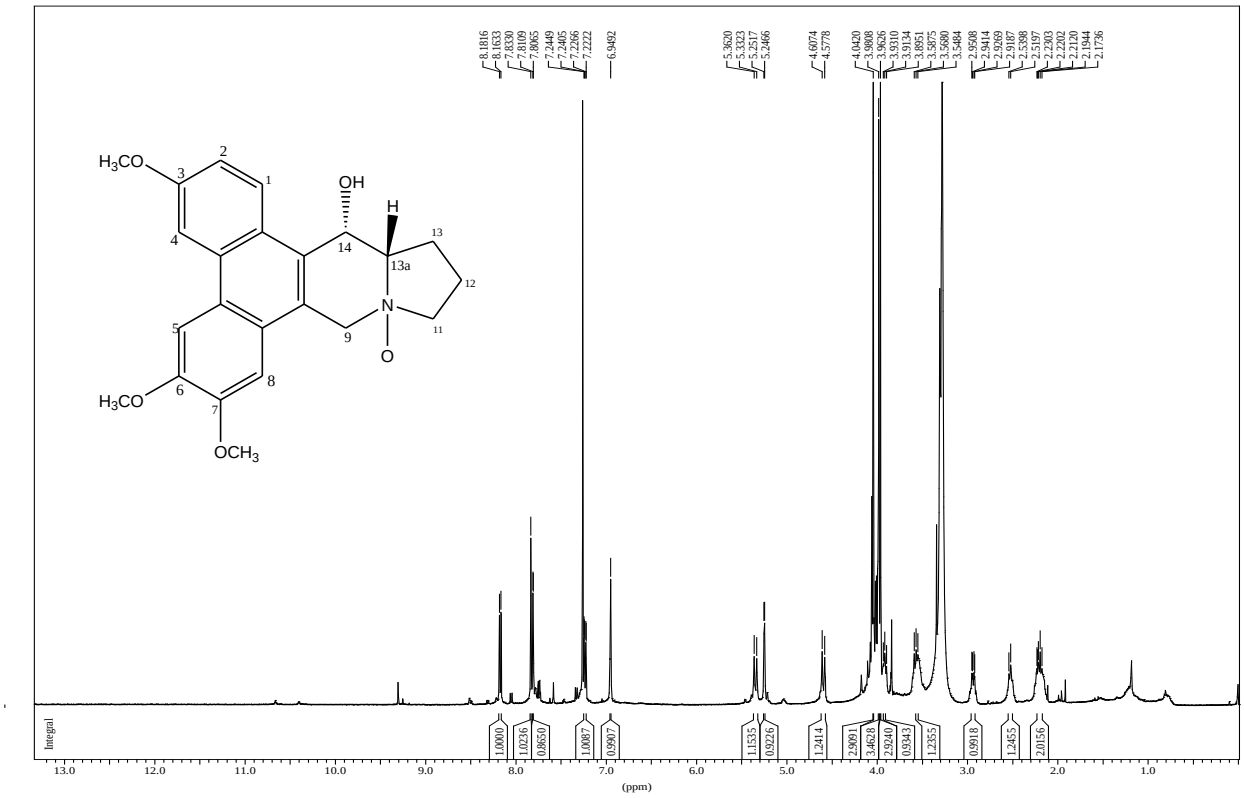


2D-^{1}H, ^{1}H-ROESY spectrum, (DMSO-d_6, 600 MHz)

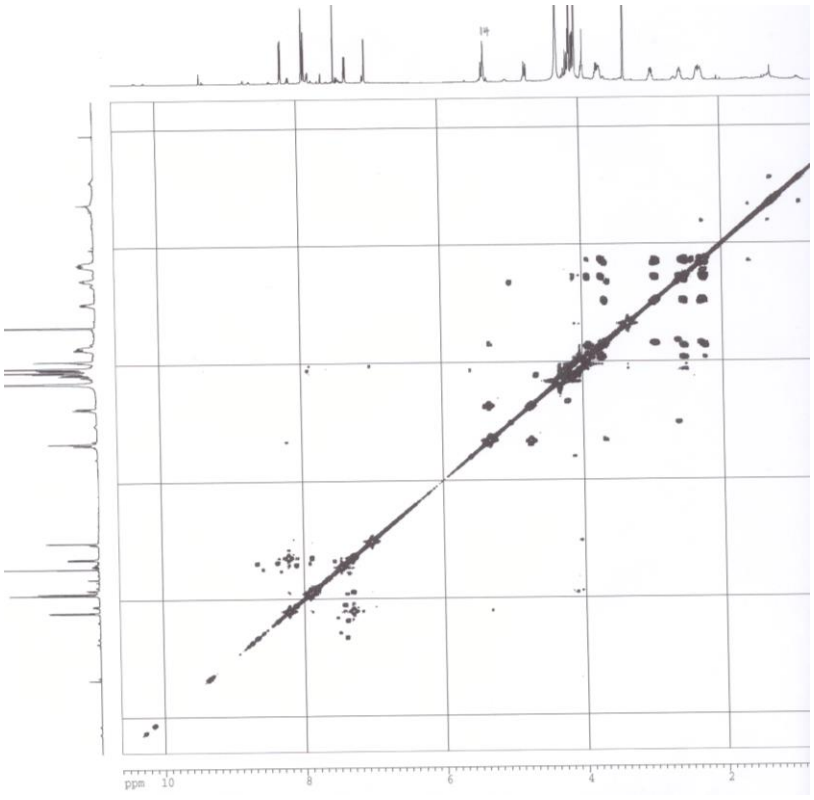


LC-ESI-MS

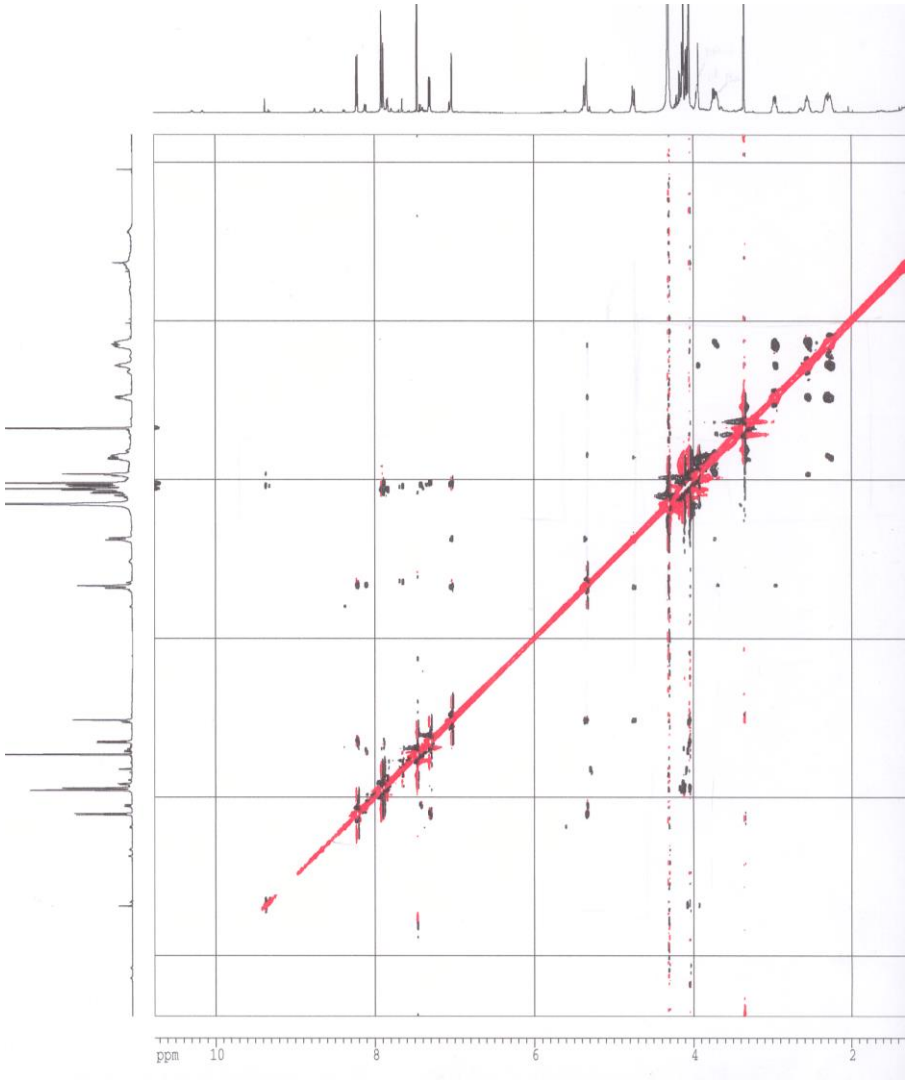
Compound 4: (+)-Tylophorinine *N*-Oxide



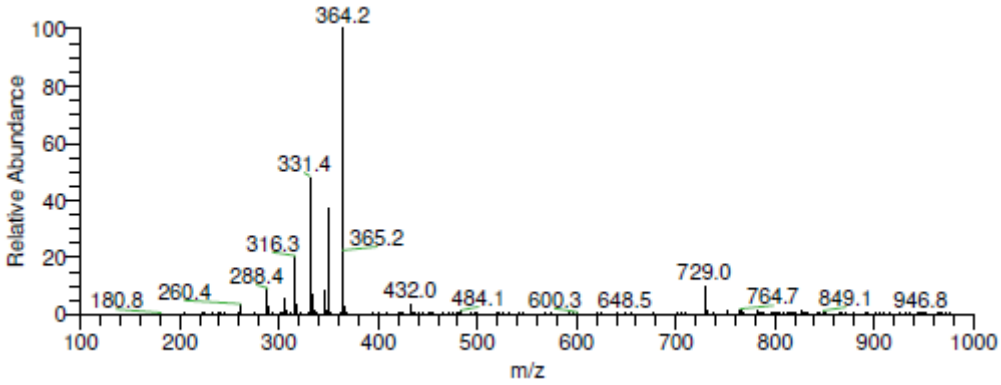
^{1}H-NMR spectrum, ($CDCl_3$:CD_3OD, 500 MHz)



2D-^{1}H, ^{1}H-COSY spectrum, ($CDCl_3$:CD_3OD, 500 MHz)

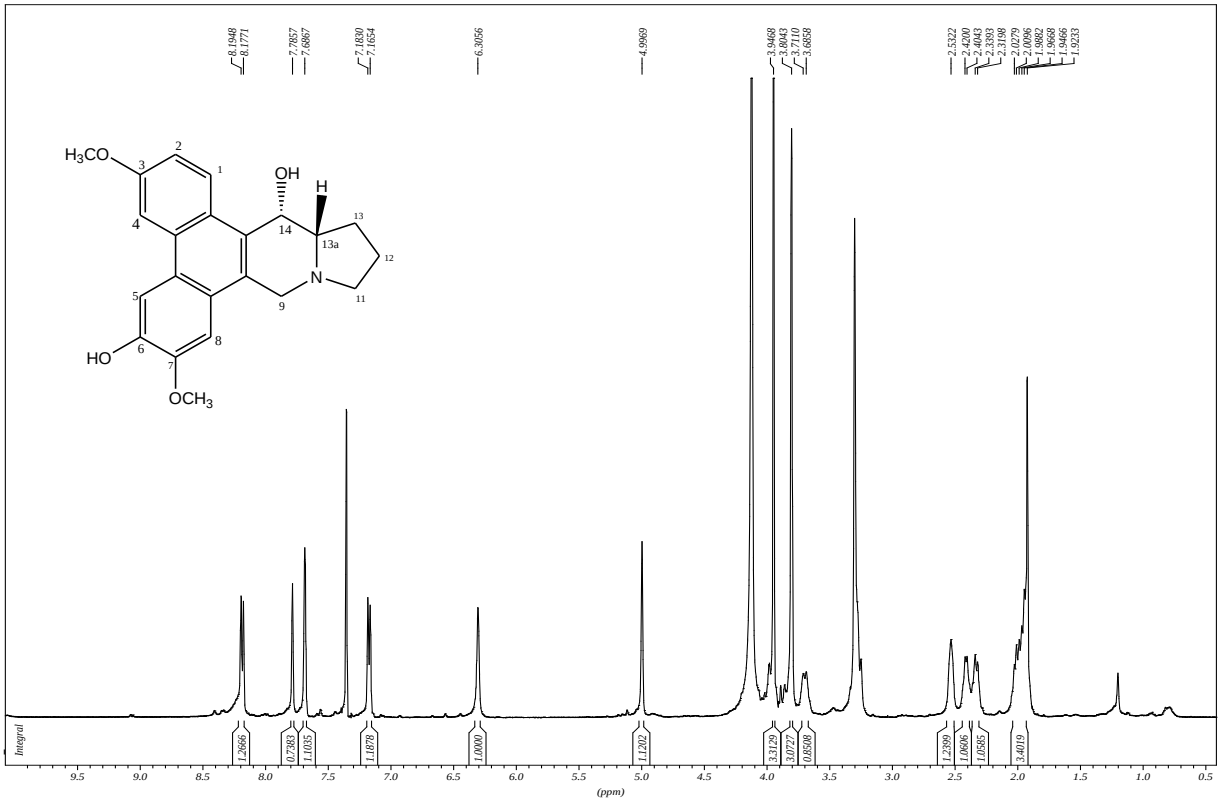


2D-^{1}H, ^{1}H-ROESY, ($CDCl_3$:CD_3OD, 600 MHz)

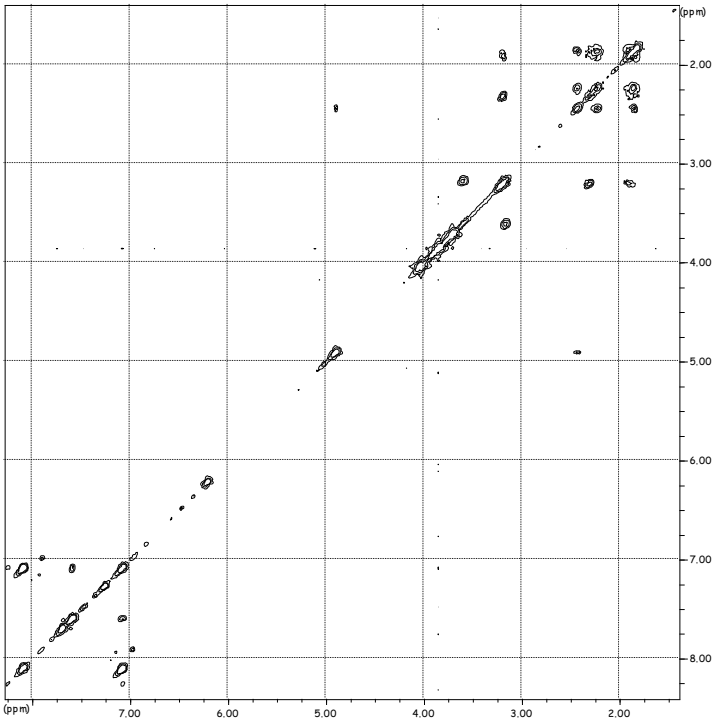


LC-ESI-MS

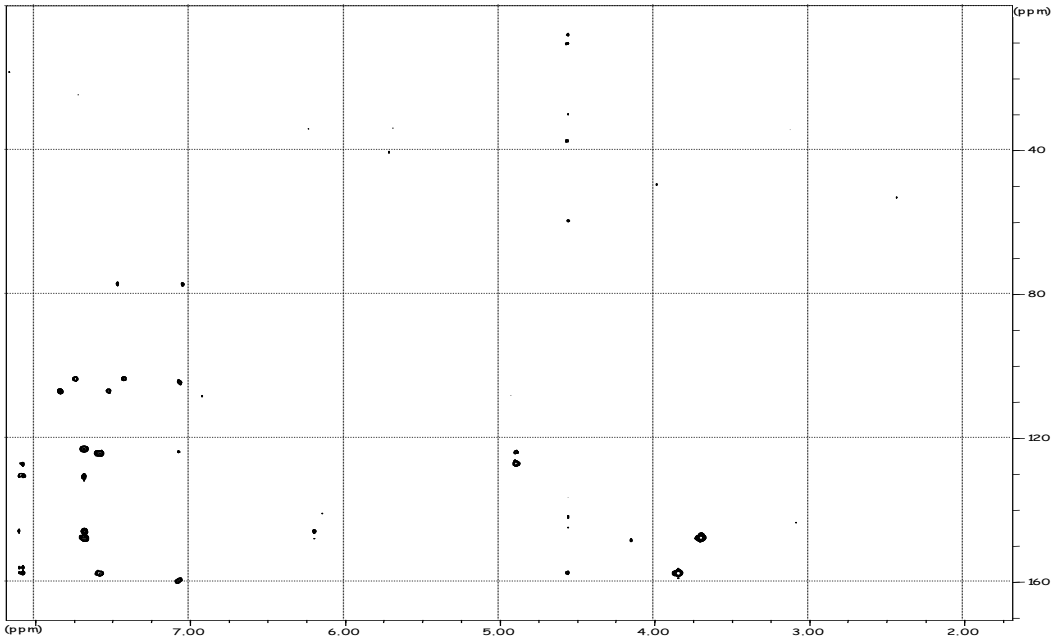
Compound 5: (+)-Tylophorinidine



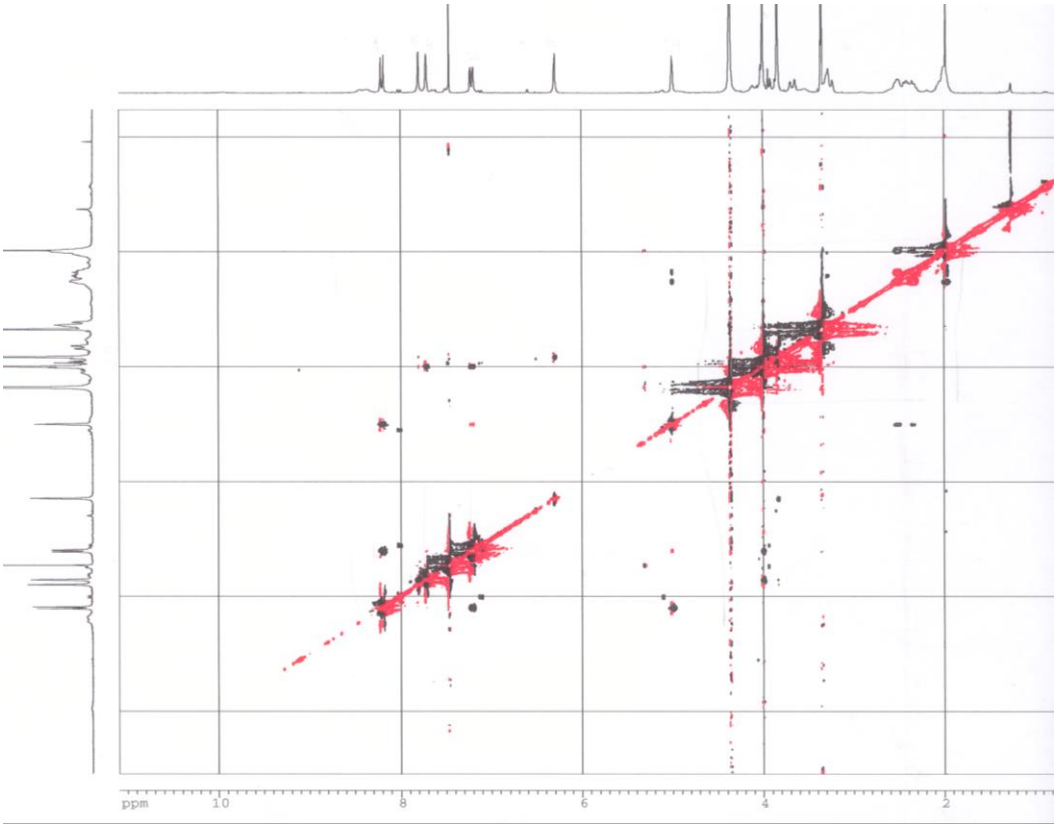
^{1}H-NMR spectrum, ($CDCl_3$:CD_3OD, 500 MHz)



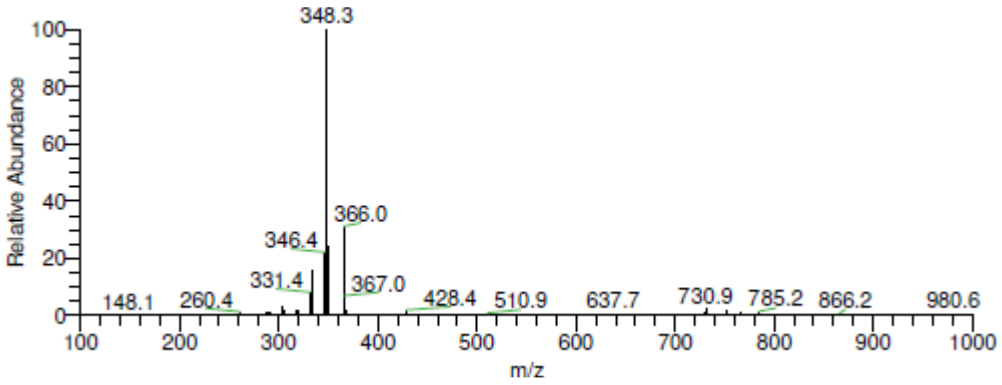
2D-^{1}H, ^{1}H-COSY spectrum, ($CDCl_3$:CD_3OD, 500 MHz)



HMBC spectrum, ($CDCl_3$:CD_3OD, 500 MHz)

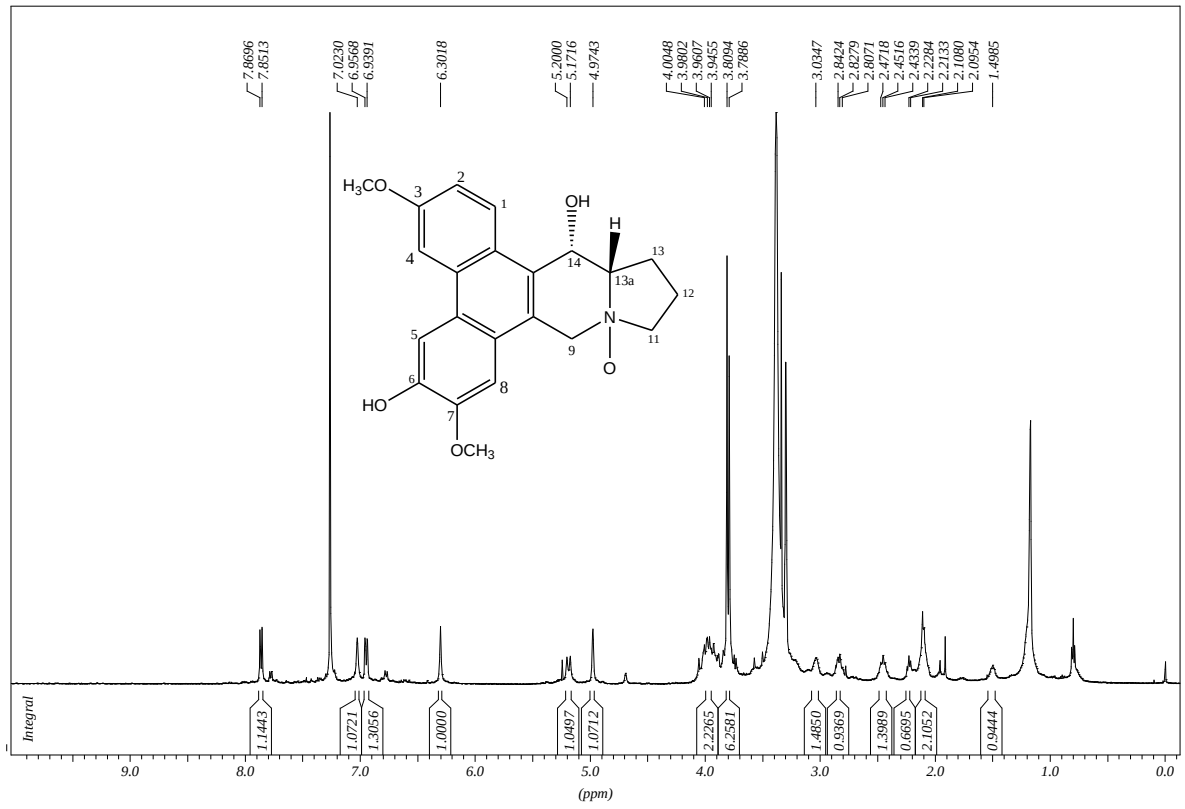


2D-^{1}H, ^{1}H-ROESY spectrum, ($CDCl_3$:CD_3OD, 600 MHz)

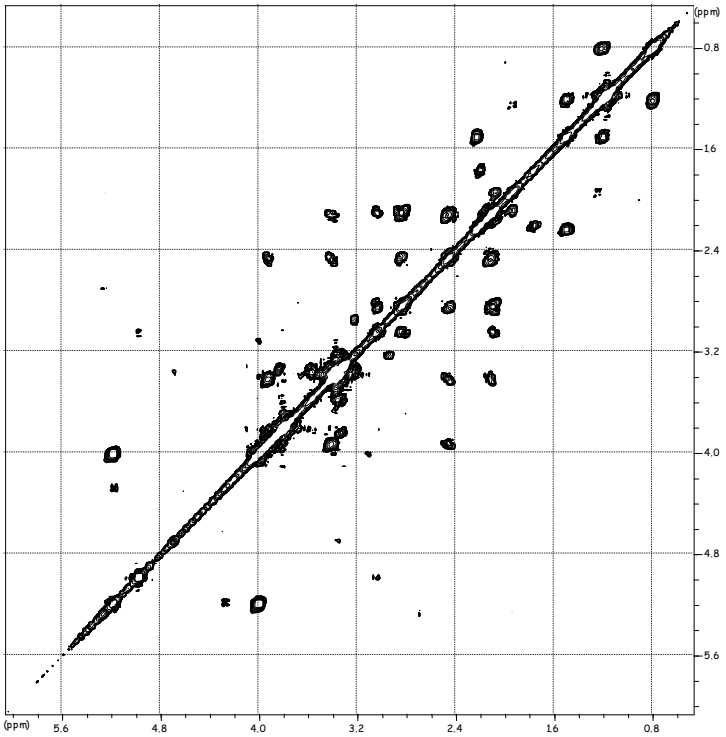


LC-ESI-MS

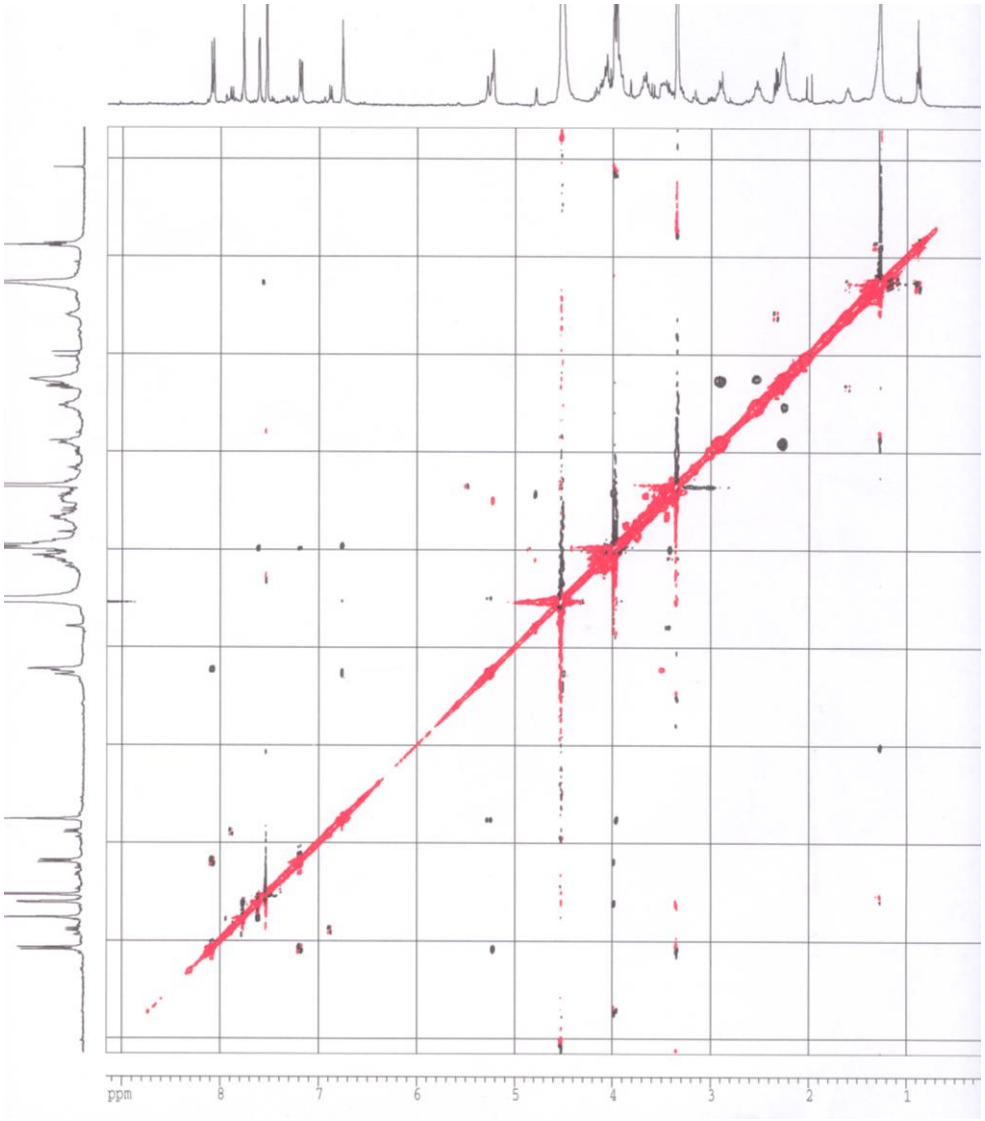
Compound 6: (+)-Tylophorinidine *N*-Oxide



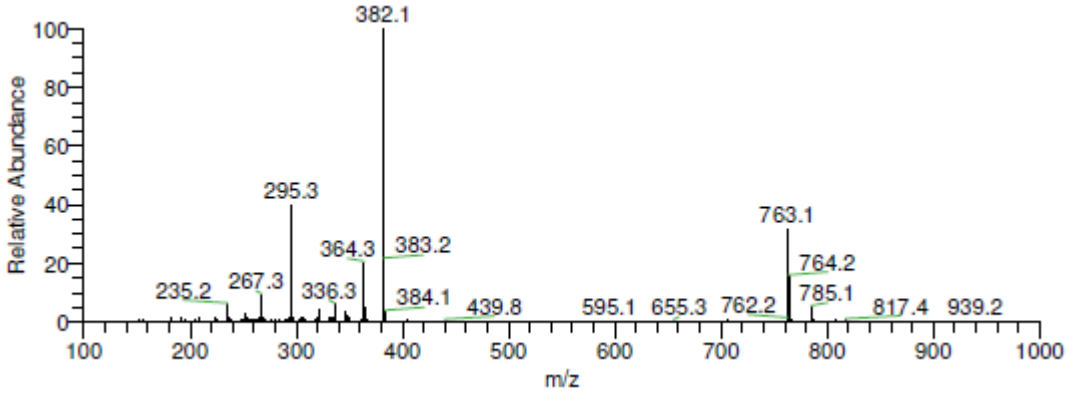
^{1}H-NMR spectrum, ($CDCl_3$:CD_3OD, 500 MHz)



2D-^{1}H, ^{1}H-COSY spectrum, ($CDCl_3$:CD_3OD, 500 MHz)

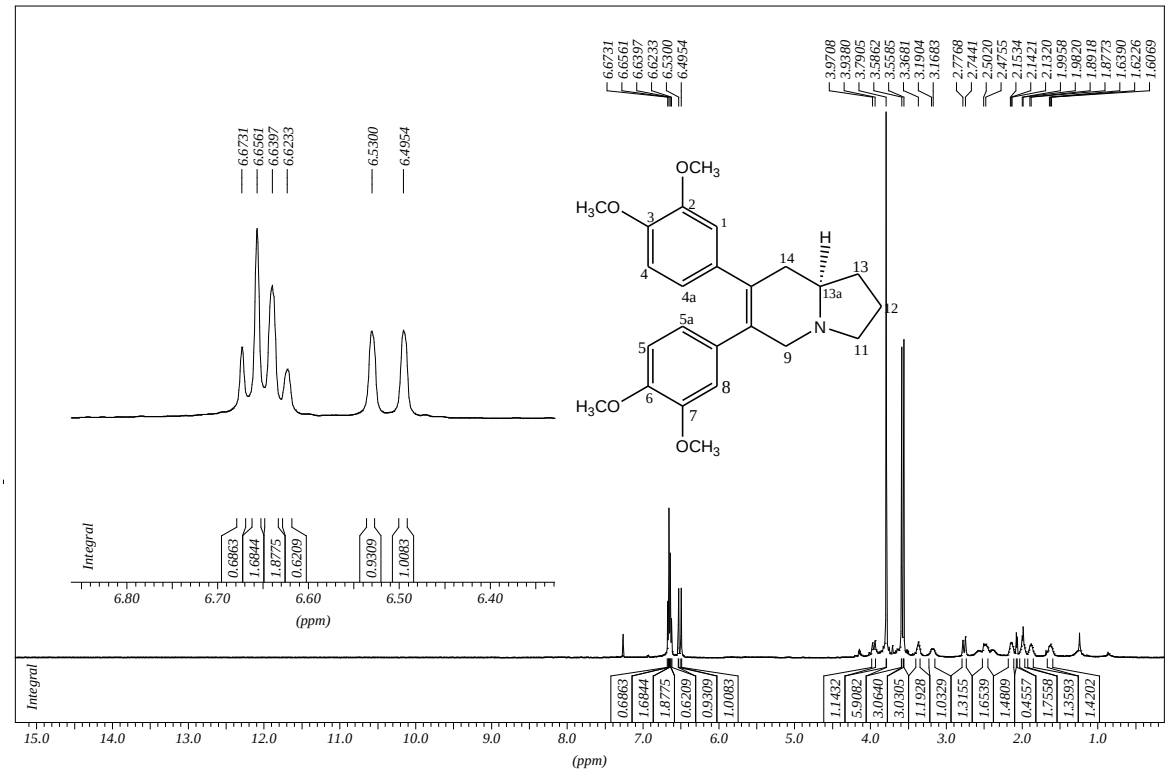


2D-^{1}H, ^{1}H-ROESY spectrum, ($CDCl_3$:CD_3OD, 600 MHz)

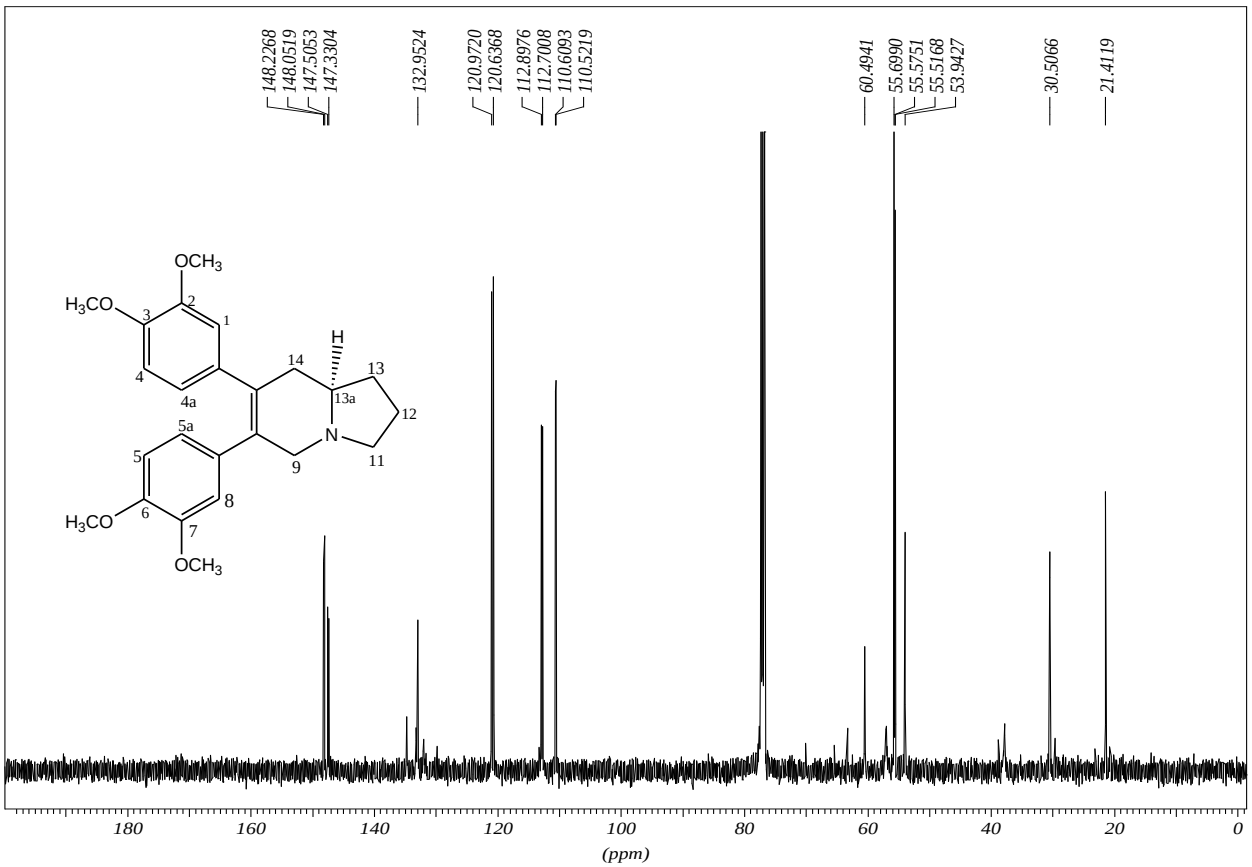


LC-ESI-MS

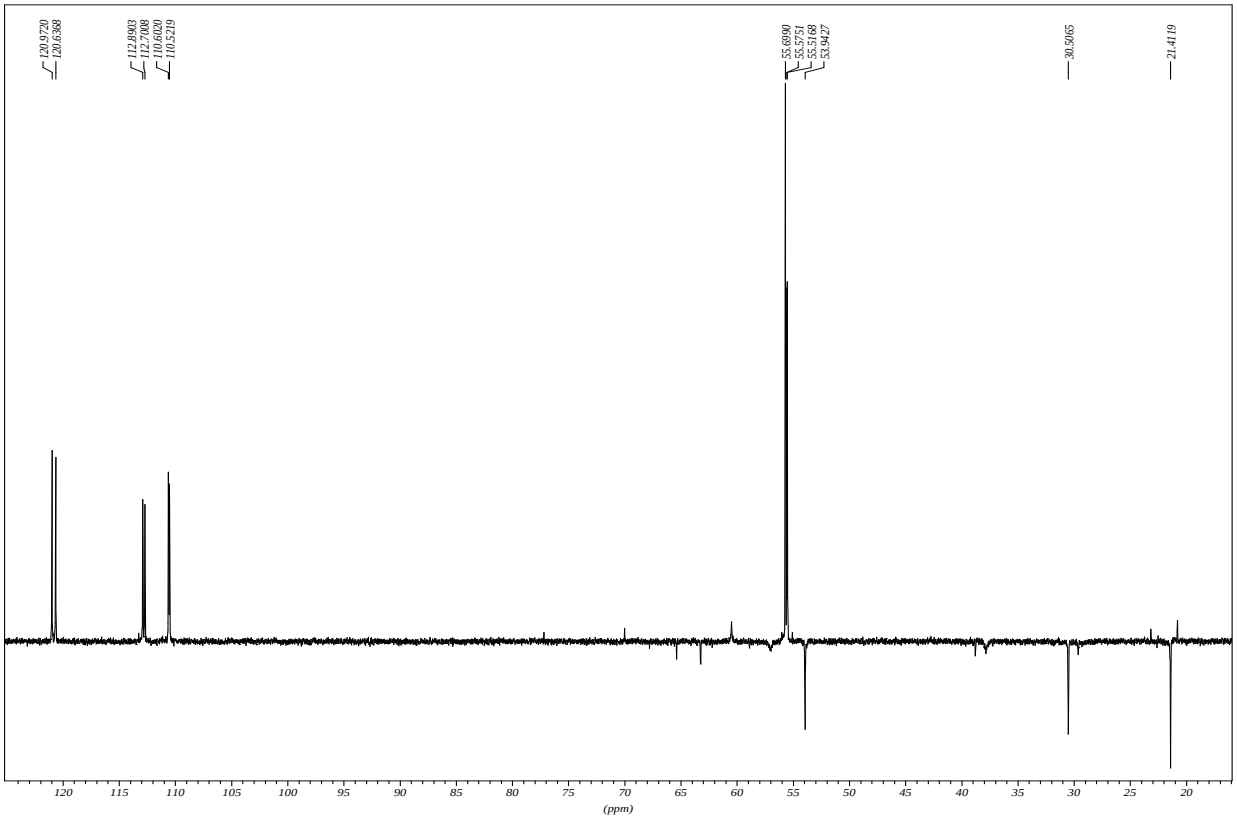
Compound 7: (+)-Septicine



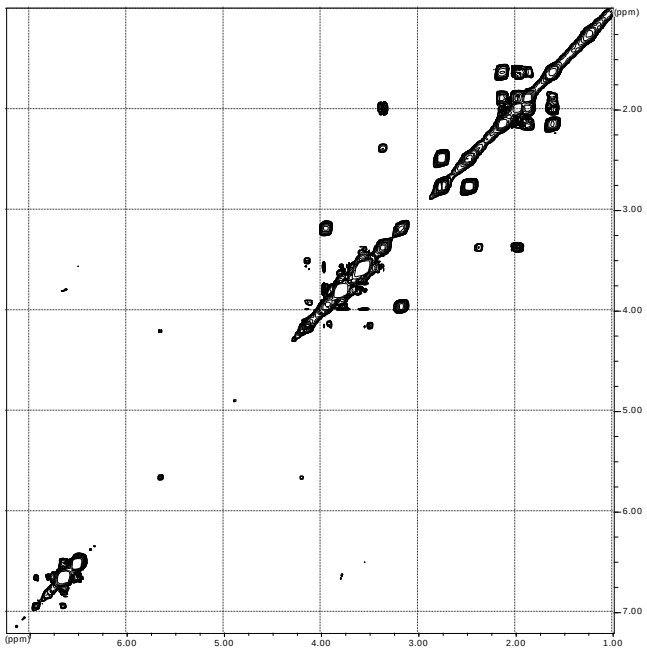
^{1}H-NMR spectrum, (DMSO-*d*$_6$, 500 MHz)



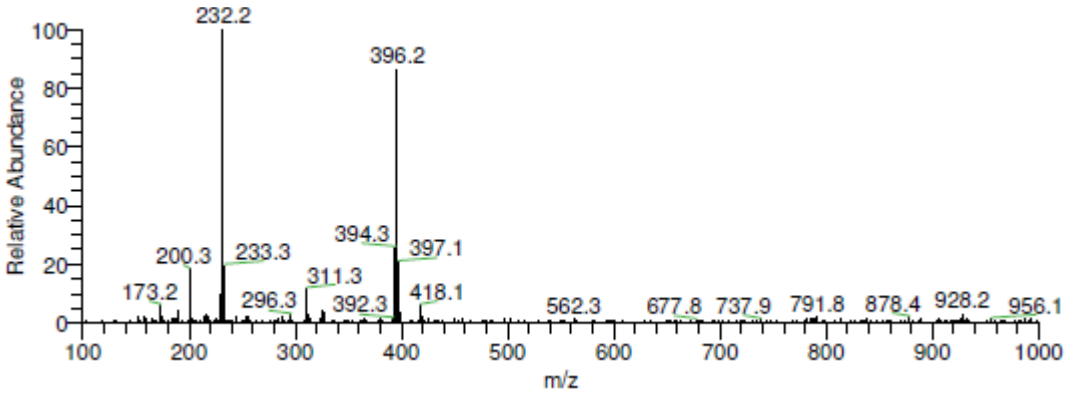
^{13}C-NMR spectrum, ($CDCl_3$, 500 MHz)



^{13}C-DEPT-NMR spectrum, ($CDCl_3$, 500 MHz)

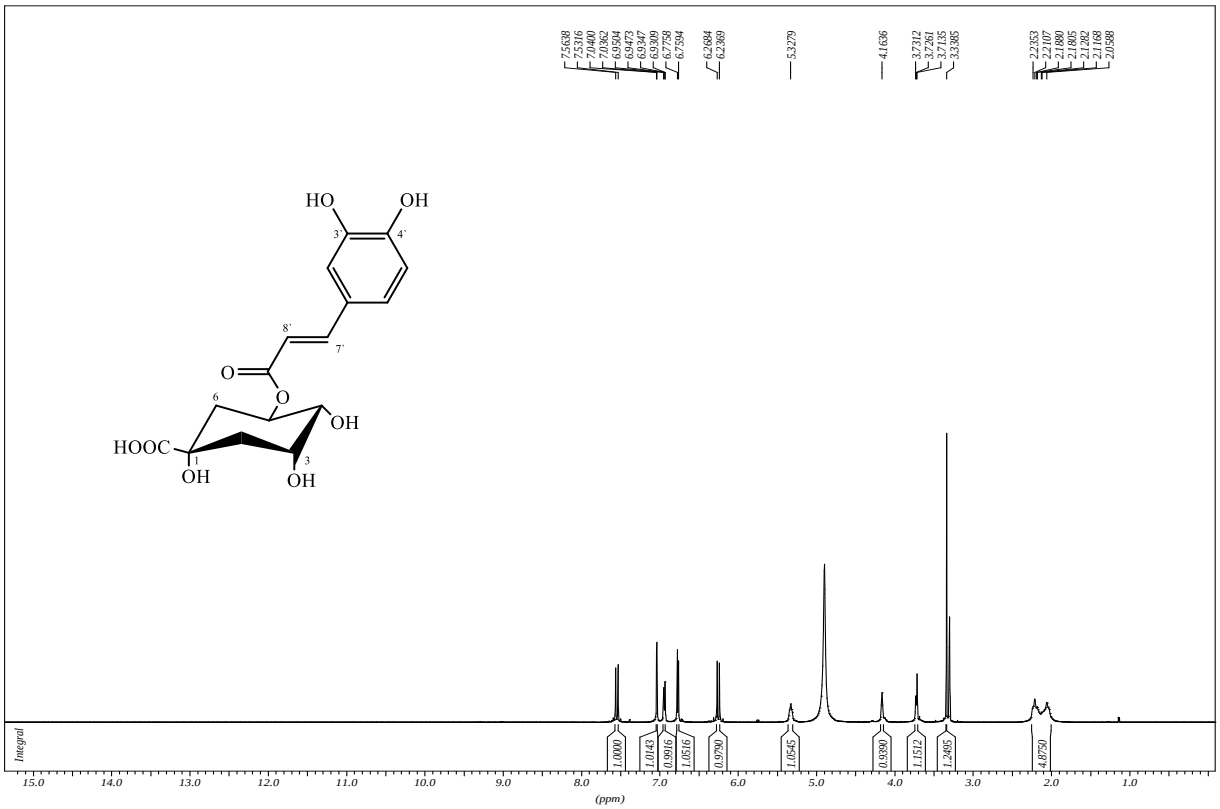


2D-^{1}H-^{1}H-COSY spectrum, ($CDCl_3$, 500 MHz)

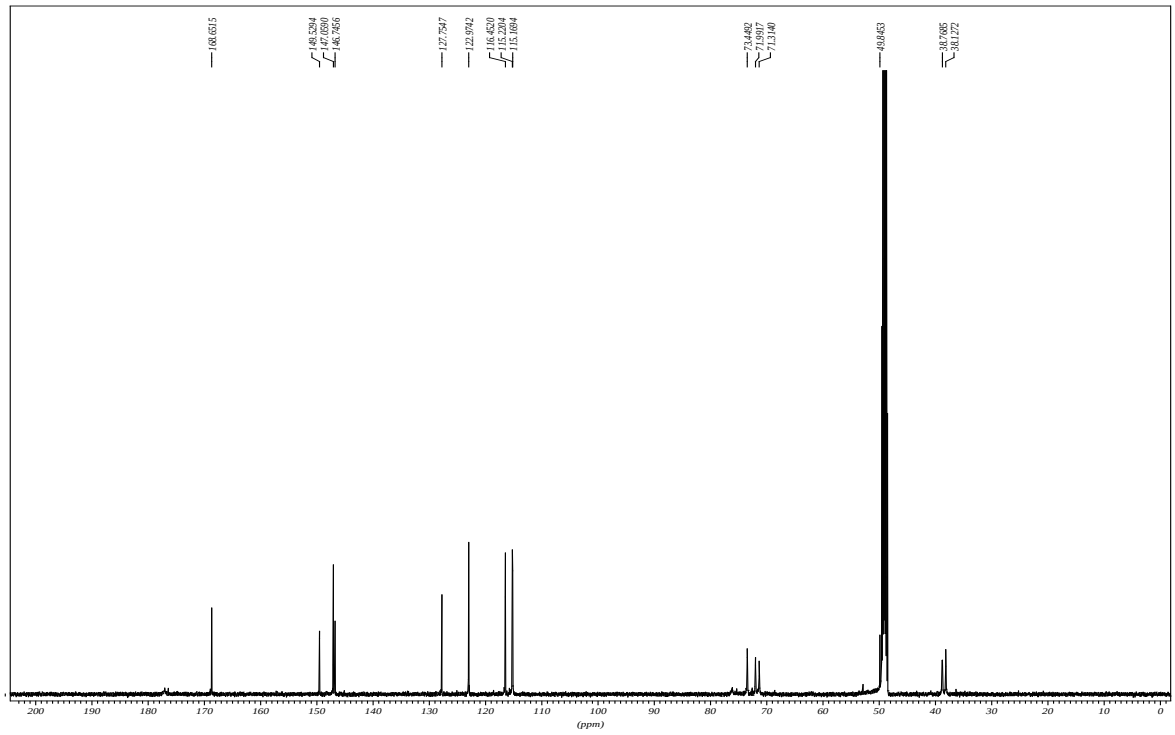


LC-ESI-MS

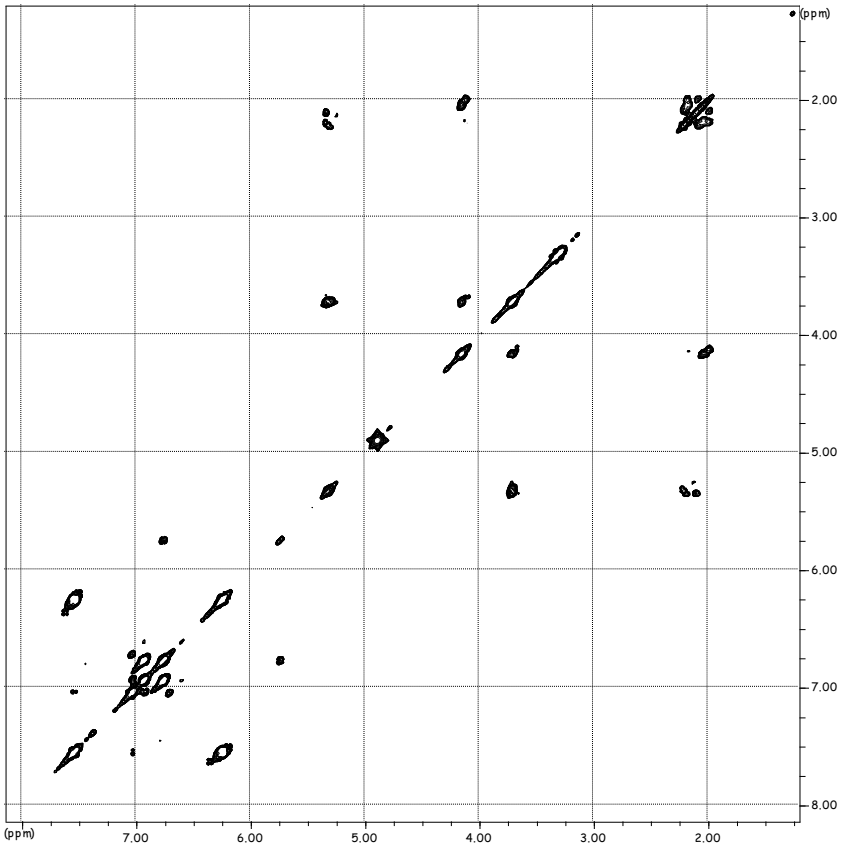
Compound 8: Chlorogenic acid



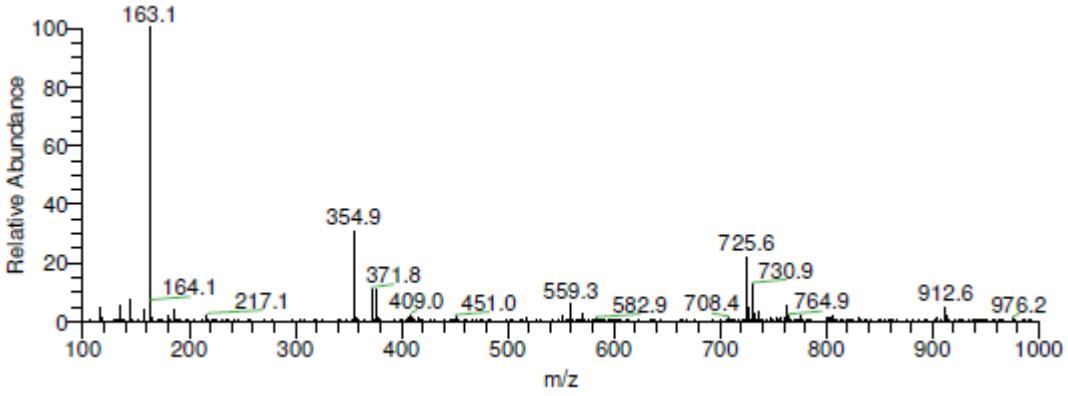
^{1}H-NMR spectrum, (CD_3OD, 500 MHz)



^{13}C-NMR spectrum, (CD_3OD, 500 MHz)

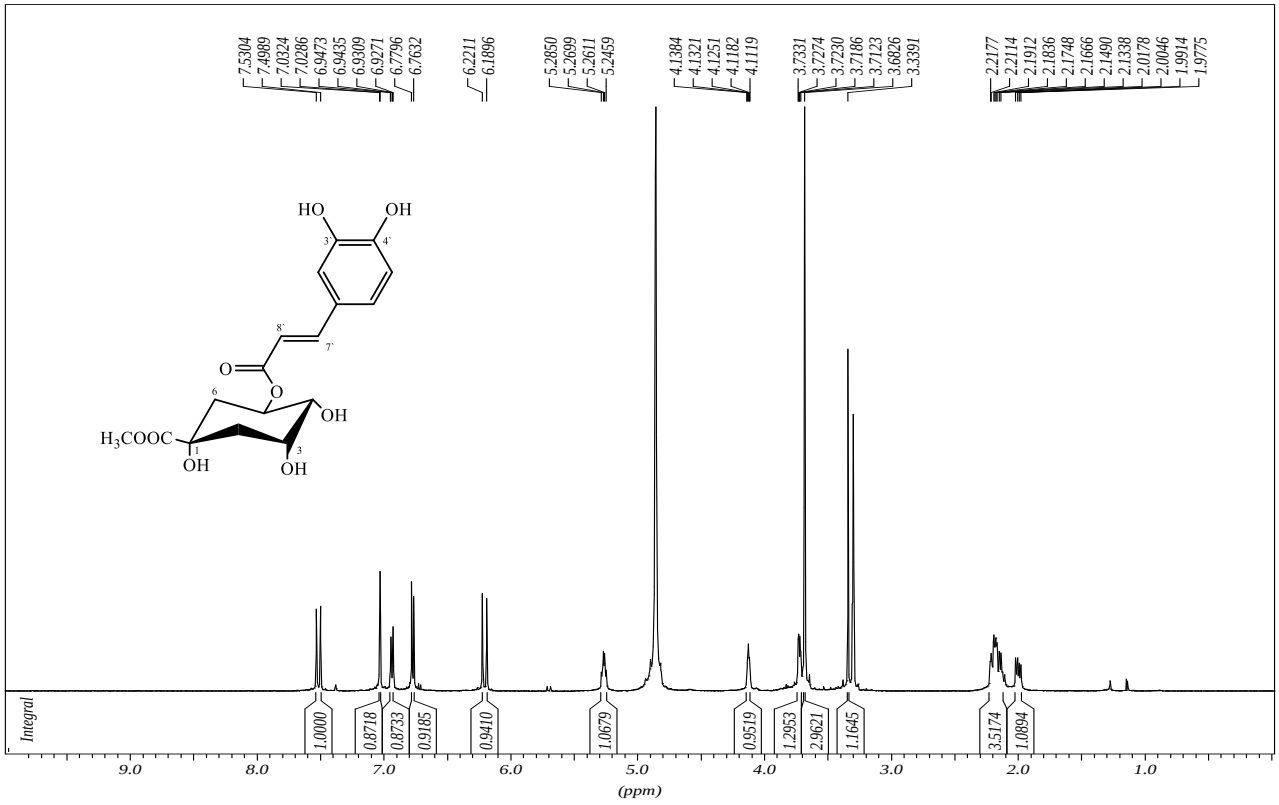


2D-^{1}H-^{1}H-COSY spectrum, (CD_3OD, 500 MHz)

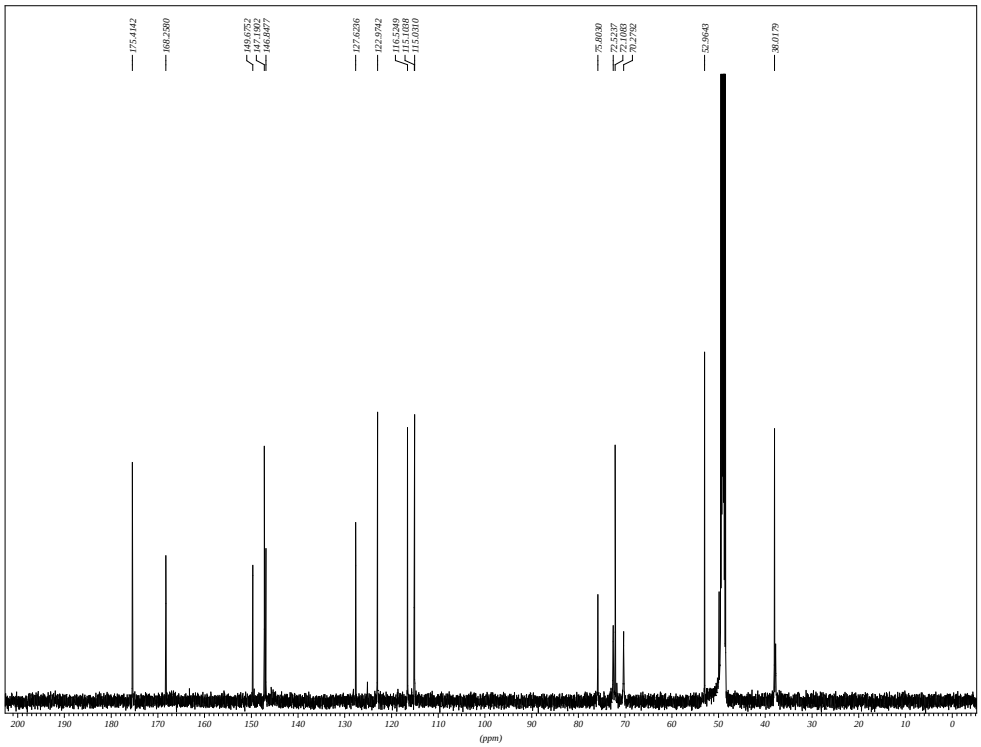


LC-ESI-MS

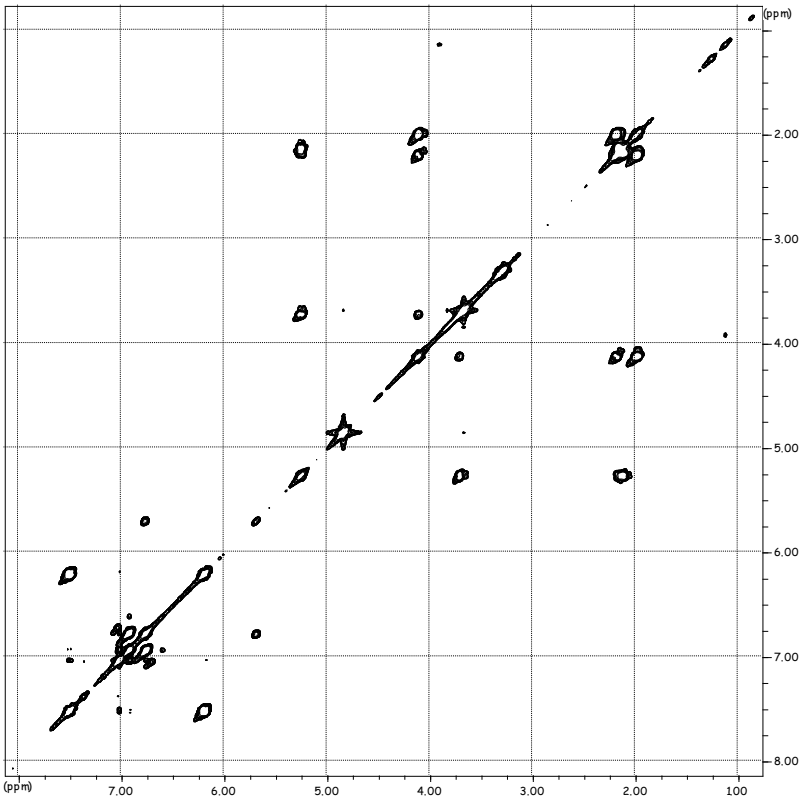
Compound 9: Chlorogenic acid methyl ester



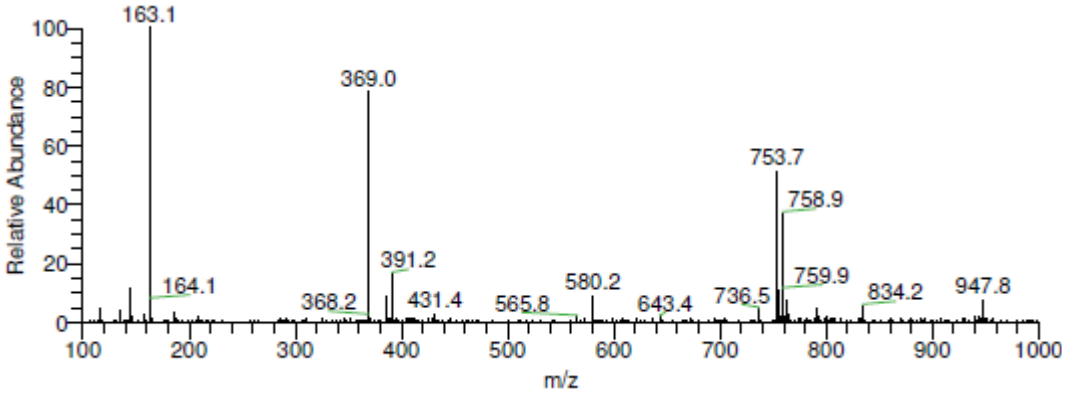
^{1}H-NMR spectrum, (CD_3OD, 500 MHz)



^{13}C-NMR spectrum, (CD_3OD, 500 MHz)



2D-^{1}H-^{1}H-COSY spectrum, (CD_3OD, 500 MHz)


163.1
369.0
753.7
758.9
391.2
164.1
759.9
580.2
368.2
431.4
565.8
643.4
736.5
834.2
947.8
Relative Abundance
m/z
100
80
60
40
20
0
100
200
300
400
500
600
700
800
900
1000

LC-ESI-MS