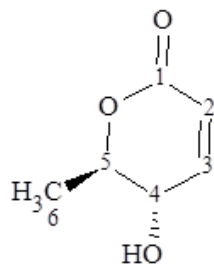


Supplementary materials

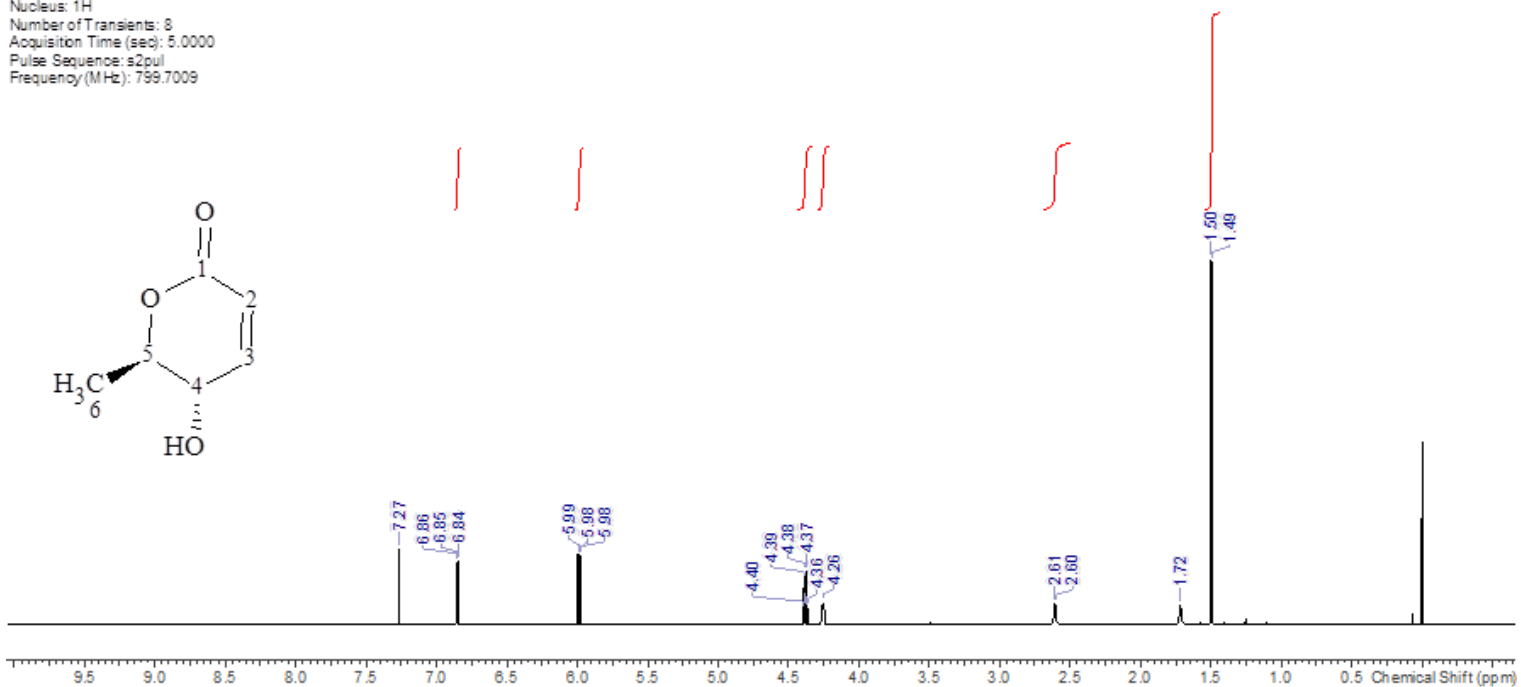
Bioactivity-guided isolation of antimicrobial and antioxidant metabolites from the mushroom *Tapinella atrotomentosa*

NMR spectra spectral data compound 1

Solvent: CHLOROFORM-d
Nucleus: 1H
Number of Transients: 8
Acquisition Time (sec): 5.0000
Pulse Sequence: s2pul
Frequency (MHz): 799.7009



¹H NMR
MHz, CDCl₃
(1H, dd, J =
= 2.4 Hz, H-
(1H, dd, J =
= 1.9 Hz, H-
(1H, dq, J =
= 6.4 Hz, H-
4.29 (1H, m,
2.50 - 2.68
H-7), 1.49
= 6.4 Hz, H-6)

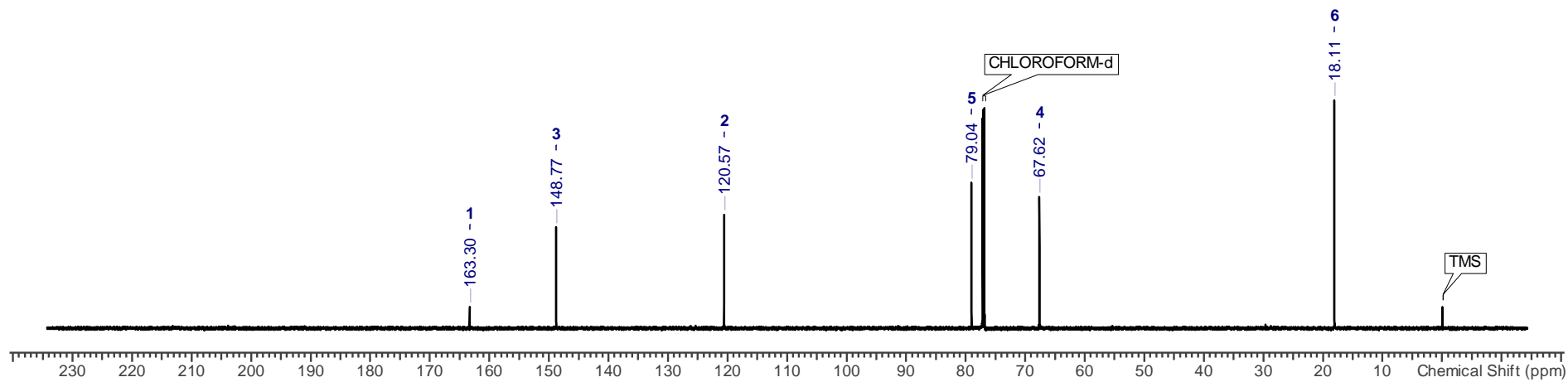


and
on

(799.7
δ: 6.85
9.9 Hz, J
3), 5.99
9.9 Hz, J
2), 4.38
8.8 Hz, J
5), 4.21 -
H-4),
(1H, m,
(3H, d, J

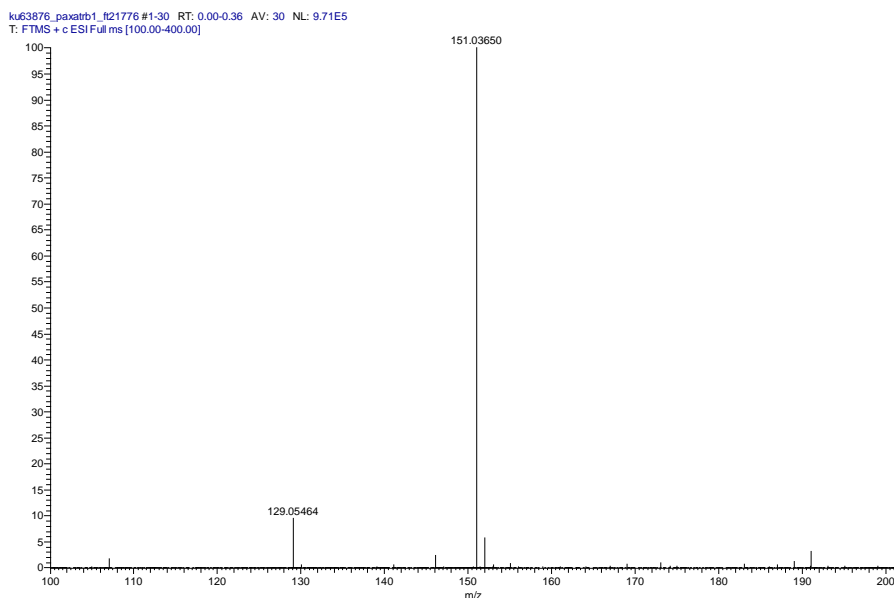
^{13}C NMR (201.1 MHz, CDCl_3) δ : 163.3 (C-1), 148.8 (C-3), 120.6 (C-2), 79.0 (C-5), 67.6 (C-4), 18.1 (C-6)

Solvent: CHLOROFORM-d
Nucleus: ^{13}C
Number of Transients: 208
Acquisition Time (sec): 0.6554
Pulse Sequence: s2pul
Frequency (MHz): 201.1059

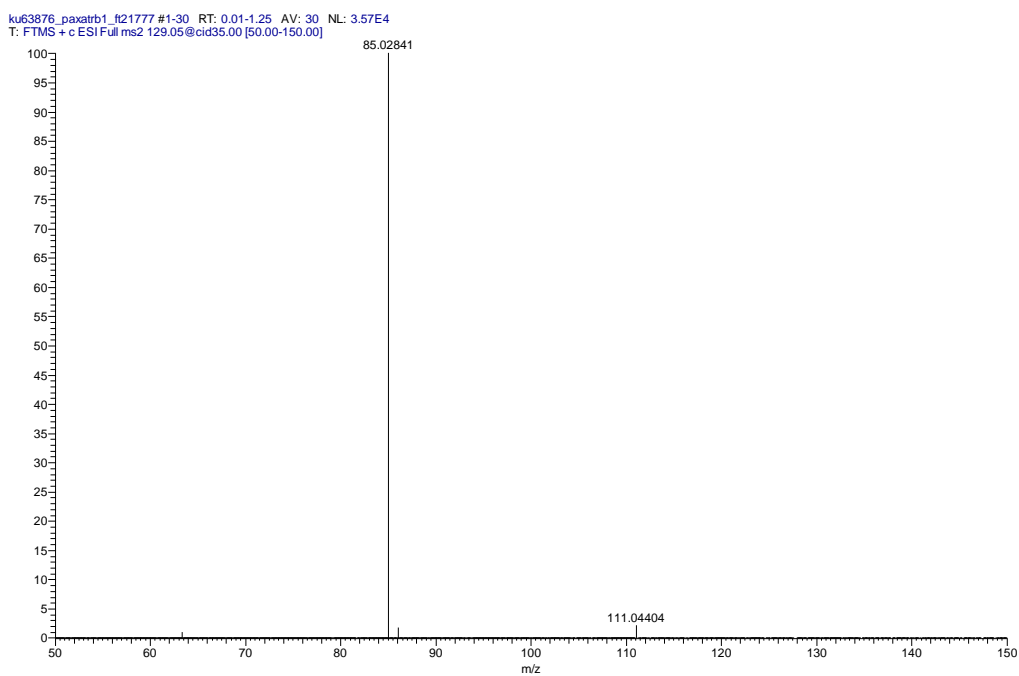


HRMS spectra and spectral data on compound 1

HRMS: M+H=129.05464 ($\delta=0.15$ ppm; $C_6H_9O_3$). HR-ESI-MS-MS (CID=35%; rel. int. %): 111(2); 85(100).



Full HRMS spectrum

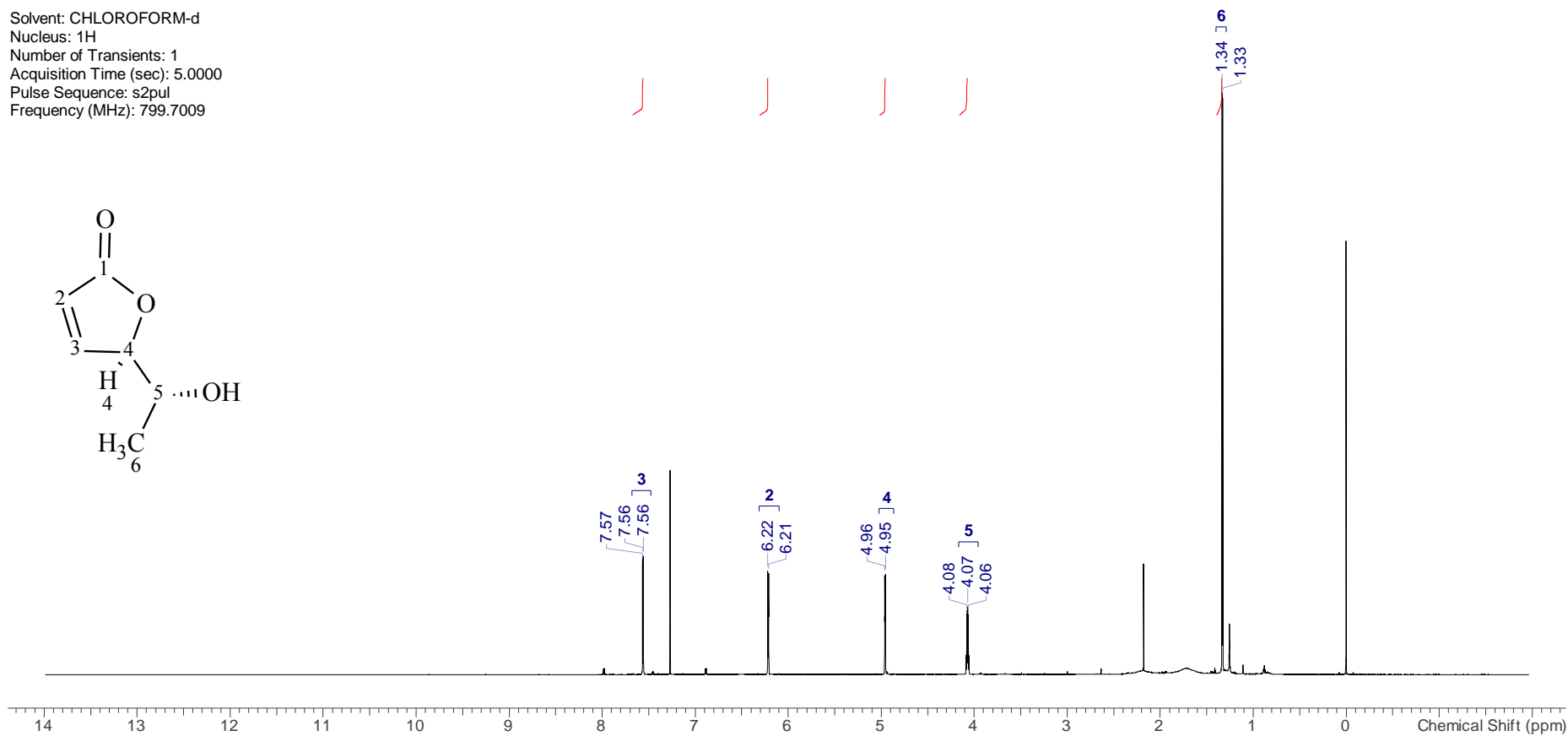


HR-MS/MS spectrum

NMR spectra and spectral data on compound 2

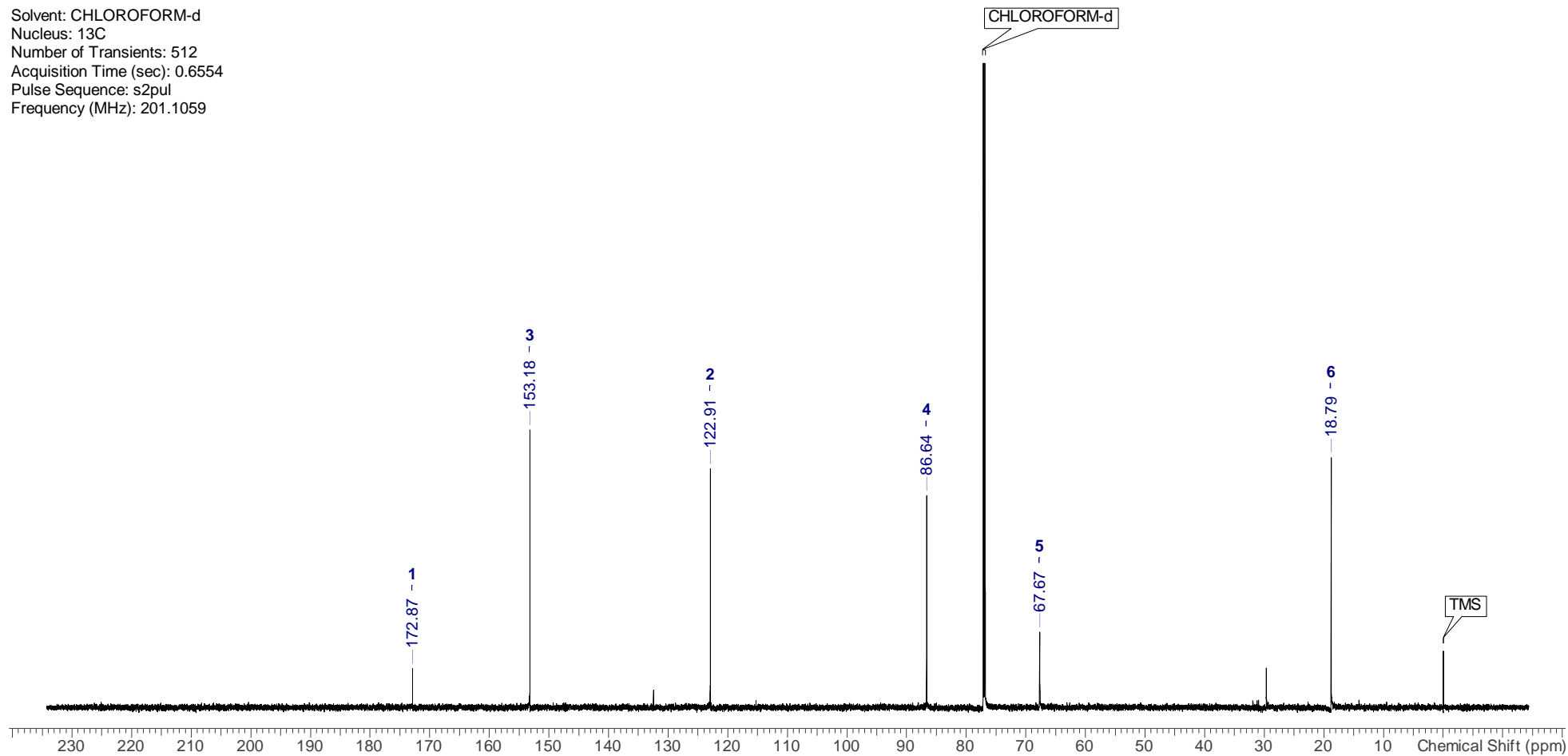
^1H NMR (799.7 MHz, CDCl_3) δ : 7.56 (1H, dd, $J = 5.8$ Hz, $J = 1.6$ Hz, H-3), 6.22 (1H, dd, $J = 5.8$ Hz, $J = 2.1$ Hz, H-2), 4.96 (1H, d, $J = 4.7$ Hz, H-4), 3.95 - 4.16 (1H, m, H-5), 1.33 (3H, d, $J = 6.5$ Hz, H-6)

Solvent: CHLOROFORM-d
Nucleus: ^1H
Number of Transients: 1
Acquisition Time (sec): 5.0000
Pulse Sequence: s2pul
Frequency (MHz): 799.7009



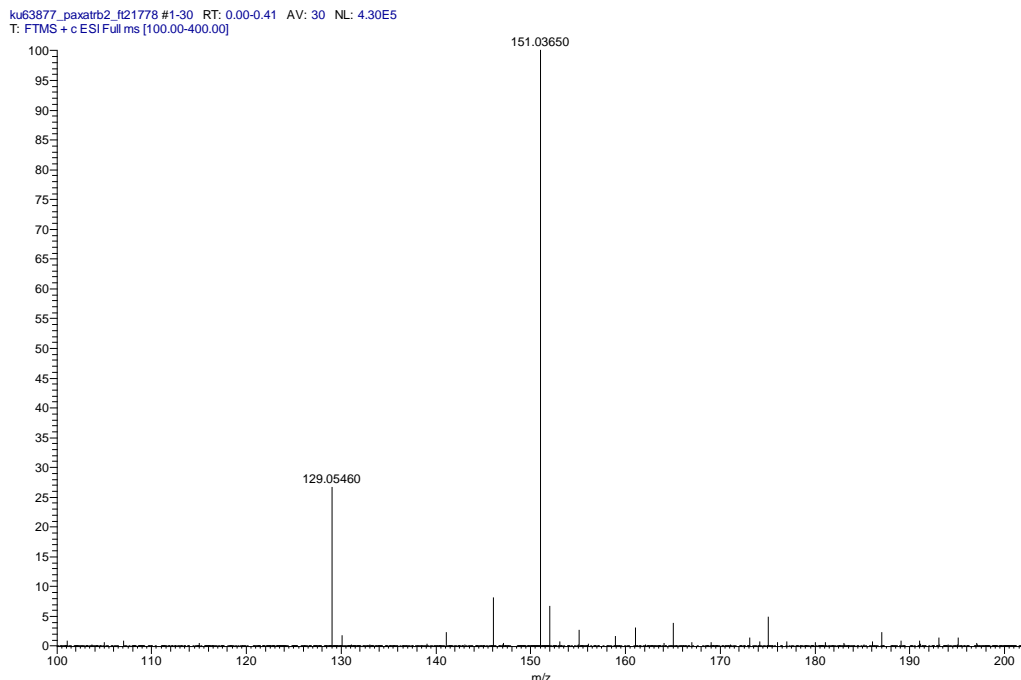
^{13}C NMR (201.1 MHz, CDCl_3) δ : 172.9 (C-1), 153.2 (C-3), 122.9 (C-2), 86.6 (C-4), 67.7 (C-5), 18.8 (C-6)

Solvent: CHLOROFORM-d
Nucleus: ^{13}C
Number of Transients: 512
Acquisition Time (sec): 0.6554
Pulse Sequence: s2pul
Frequency (MHz): 201.1059

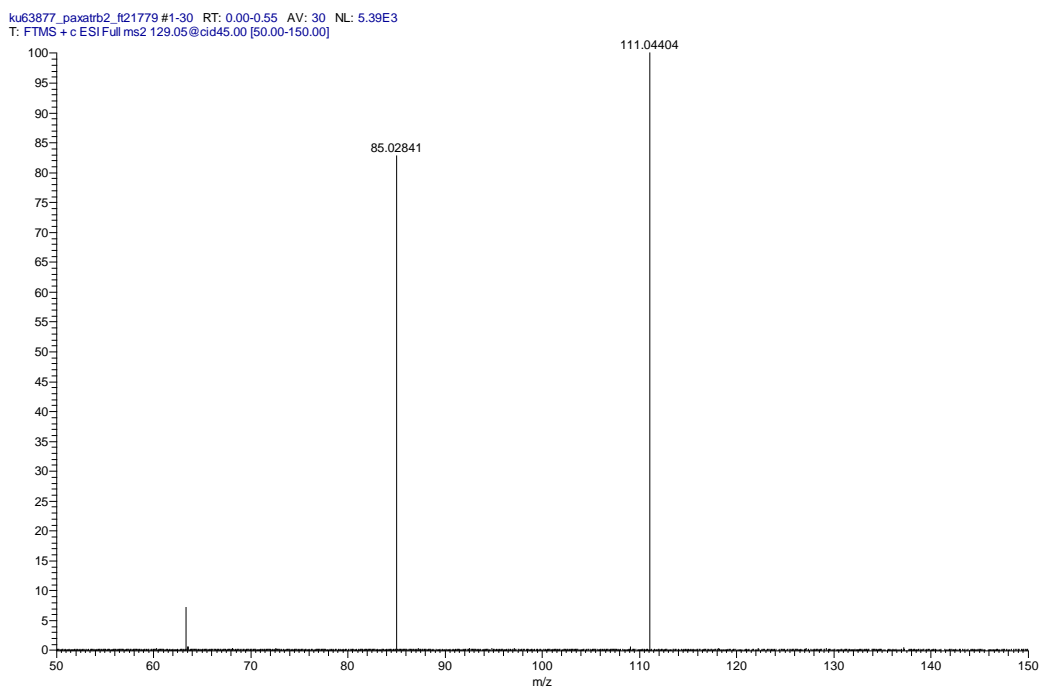


HRMS spectra and spectral data on compound 2

HRMS: $M+H=129.05460$ ($\delta=-0.16$ ppm; $C_6H_9O_3$). HR-ESI-MS-MS (CID=35%; rel. int. %): 111(100); 85(83).



Full HRMS spectrum

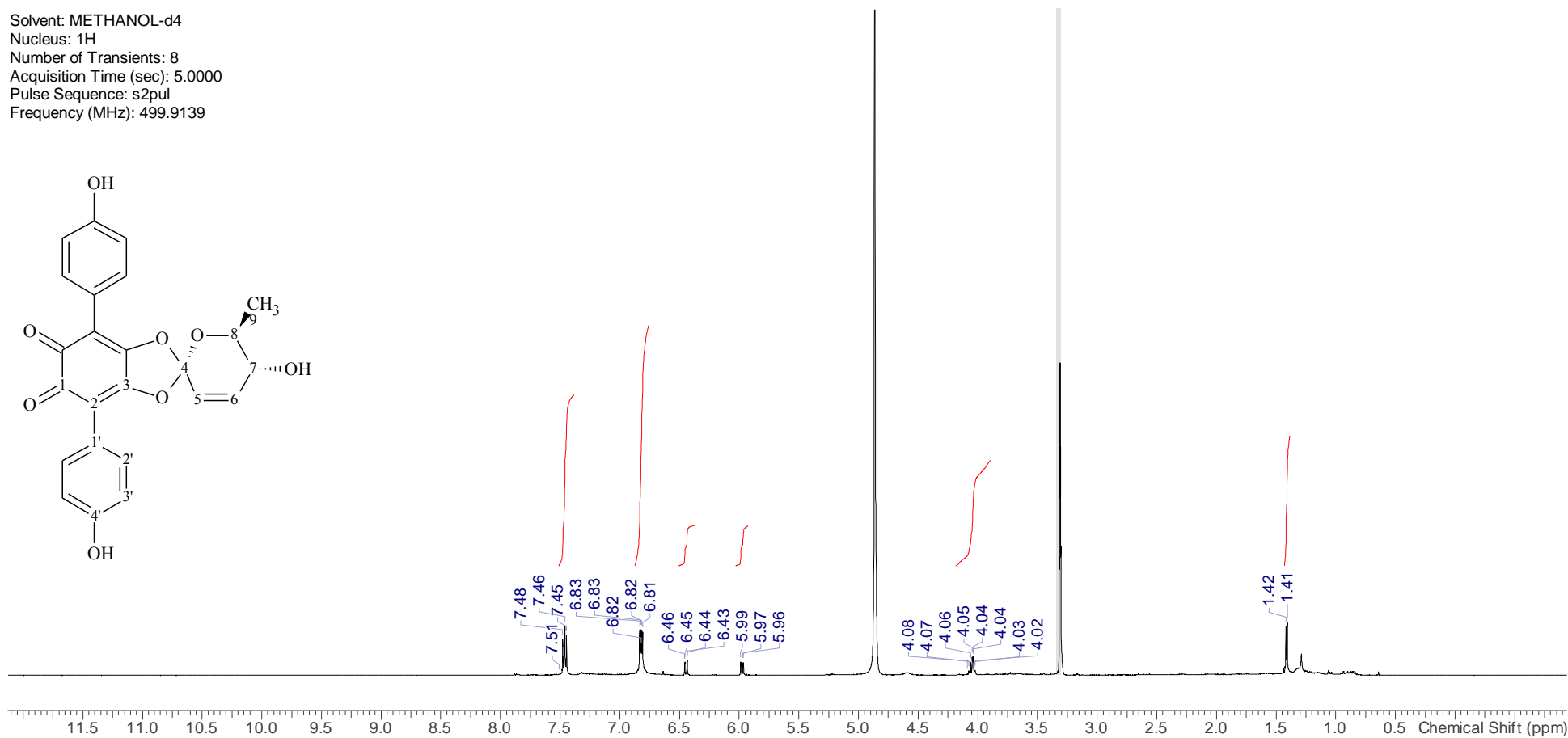
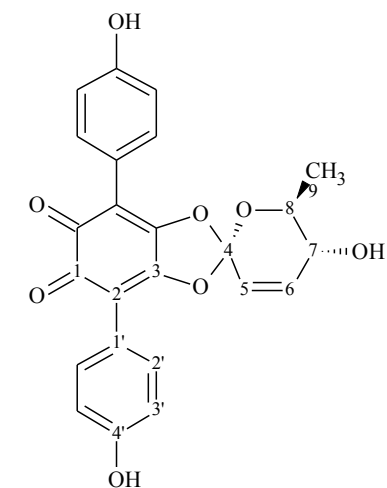


HR-MS/MS spectrum

NMR spectra and spectral data on compound 3

^1H NMR (499.9 MHz, CD_3OD) δ : 7.38 - 7.51 (4H, m, H-2'), 6.76 - 6.87 (4H, m, H-3'), 6.45 (1H, dd, $J = 10.0$ Hz, $J = 1.5$ Hz, H-5), 5.98 (1H, dd, $J = 9.9$ Hz, $J = 2.0$ Hz, H-6), 3.90 - 4.19 (2H, m, H-7, H-8), 1.41 (2H, d, $J = 5.8$ Hz, H-9)

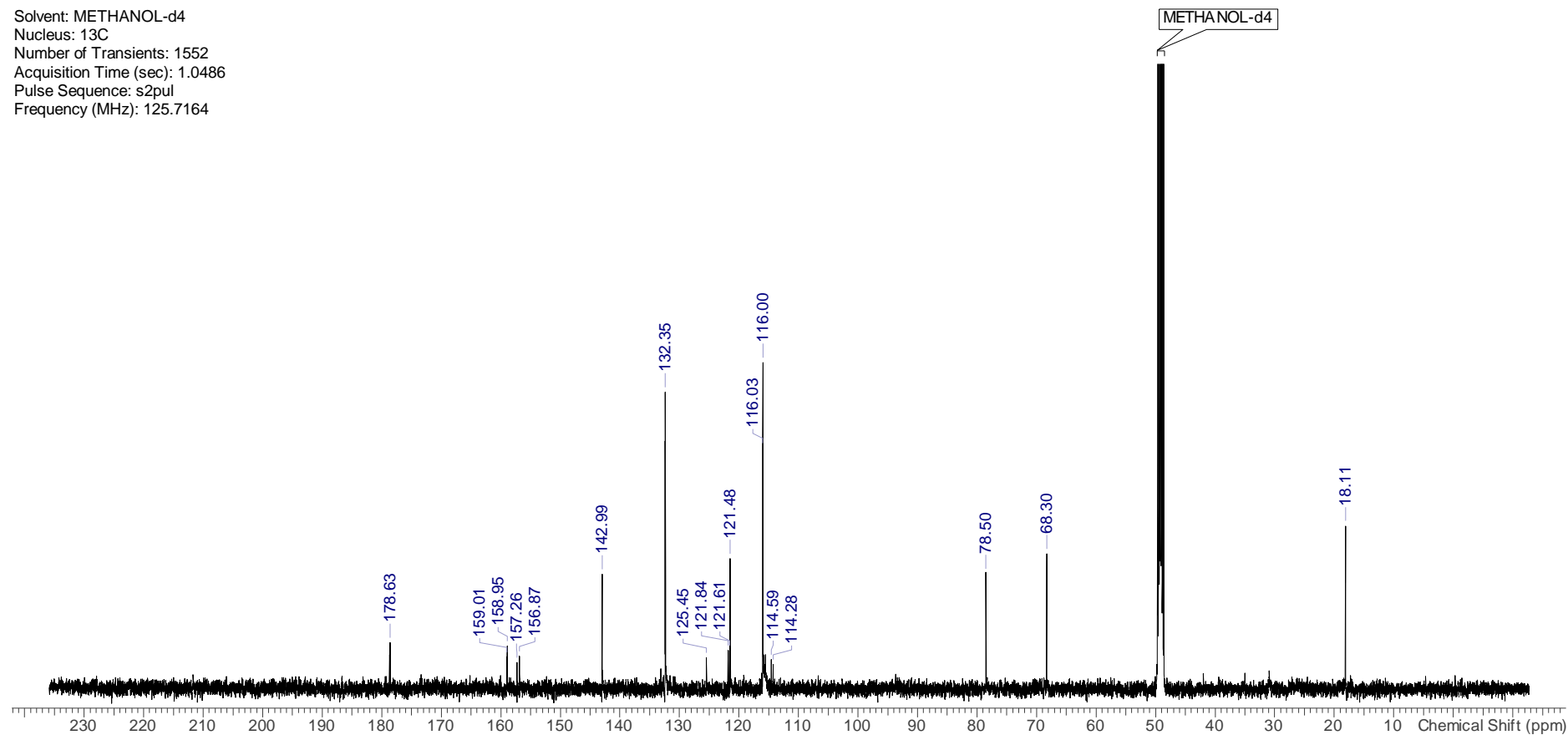
Solvent: METHANOL-d4
Nucleus: 1H
Number of Transients: 8
Acquisition Time (sec): 5.0000
Pulse Sequence: s2pul
Frequency (MHz): 499.9139



^{13}C NMR (125.7 MHz, CD_3OD) δ : 178.7/178.6 (C-1), 159.0/ 158.9 (C-4'), 157.3/156.9 (C-3), 143.0 (C-5), 132.41/132.35 (C-2'), 125.4 (C-4), 121.8/121.6 (C-1'), 121.5 (C-6), 116.03/116.00 (C-3'), 114.3/114.6 (C-2, 2), 78.5 (C-8), 68.3 (C-7), 18.1 (C-

9

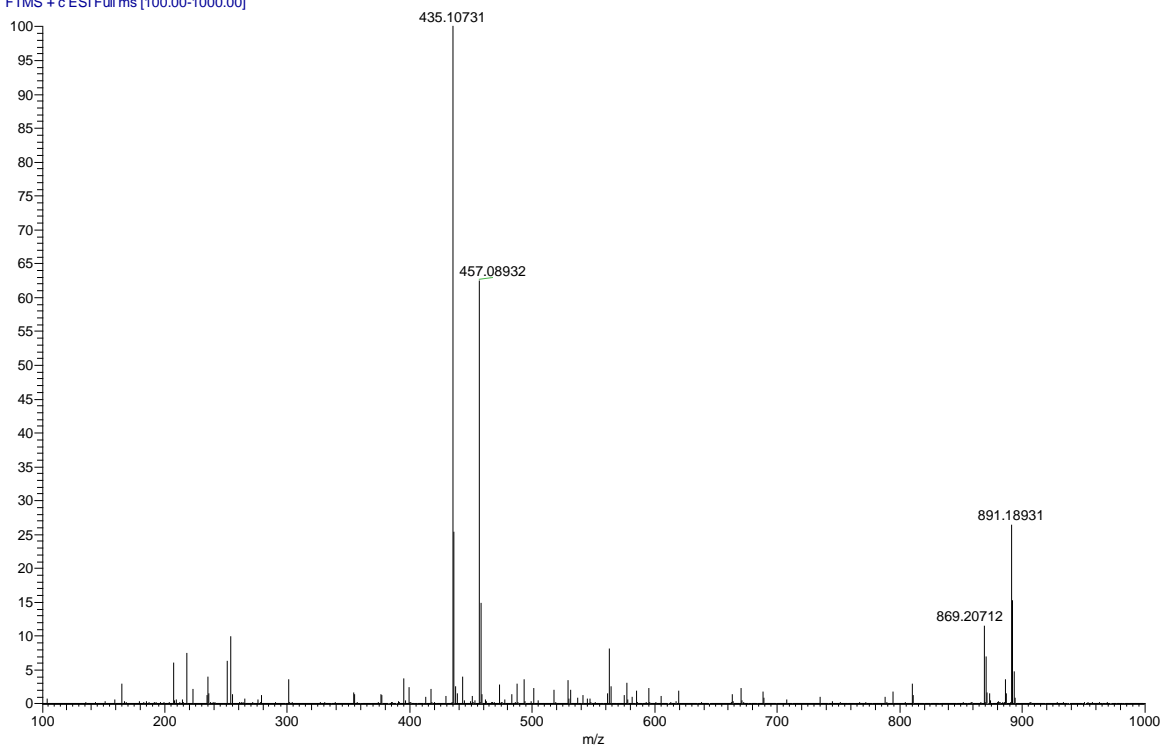
Solvent: METHANOL-d4
Nucleus: ^{13}C
Number of Transients: 1552
Acquisition Time (sec): 1.0486
Pulse Sequence: s2pul
Frequency (MHz): 125.7164



HRMS spectra and spectral data on compound 3

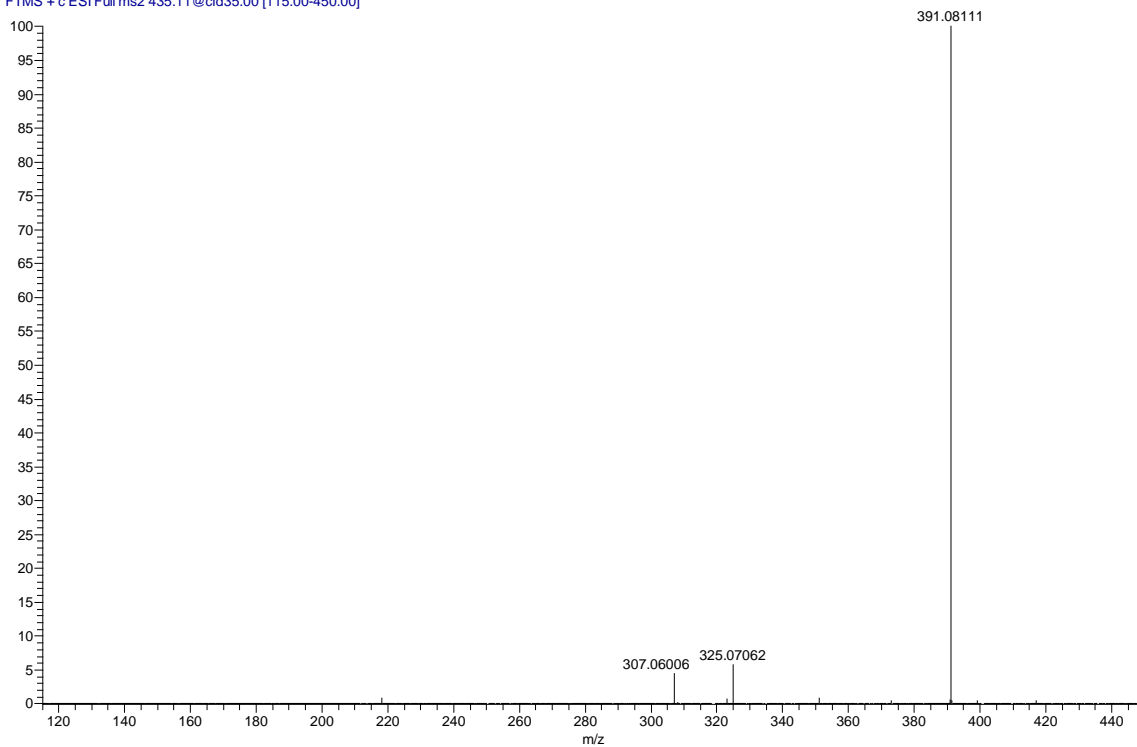
HRMS: M+H=435.10731 ($\delta=-0.31$ ppm; $C_{24}H_{19}O_8$). HR-ESI-MS-MS (CID=35%; rel. int. %): 391(100); 325(6); 307(4).

ku64329_paxatrb5_ft22062 #1-30 RT: 0.00-0.42 AV: 30 NL: 4.39E4
T: FTMS + c ESI Full ms [100.00-1000.00]



Full HRMS spectrum

ku64329_paxatrb5_ft22063 #1-30 RT: 0.00-0.54 AV: 30 NL: 1.20E5
T: FTMS + c ESI Full ms2 435.11 @cid35.00 [115.00-450.00]

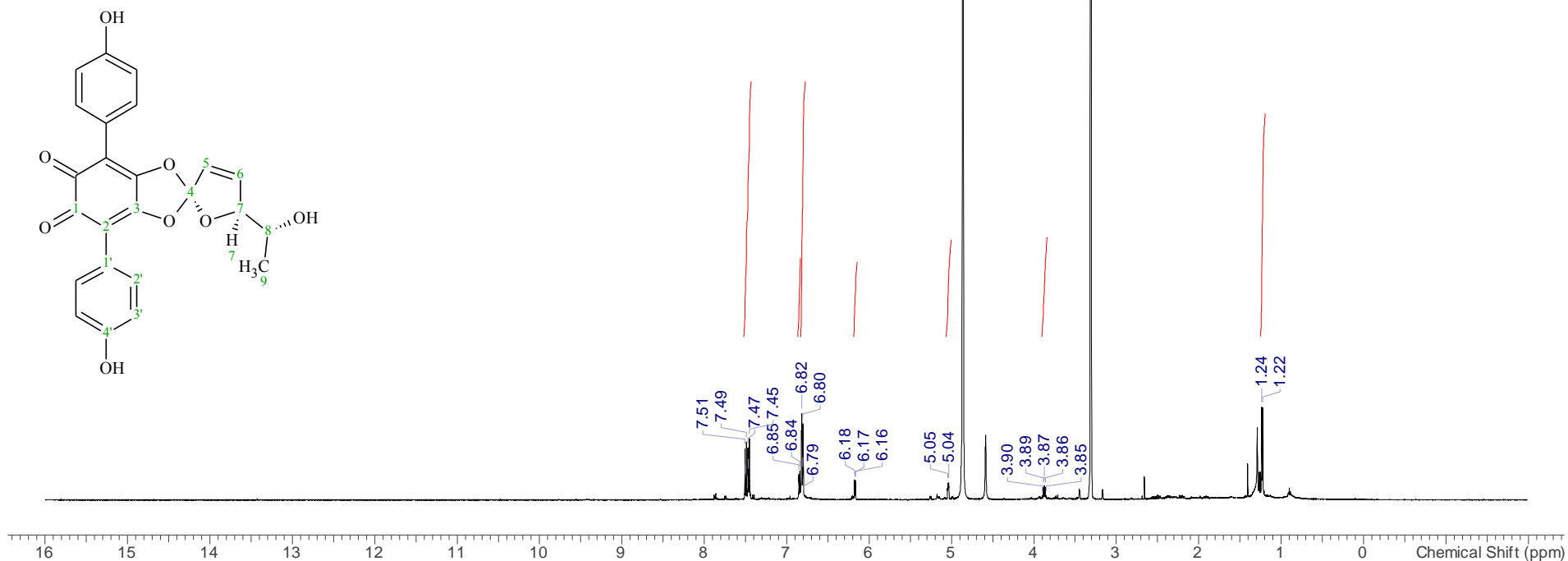


HR-MS/MS spectrum

NMR spectra and spectral data on compound 4

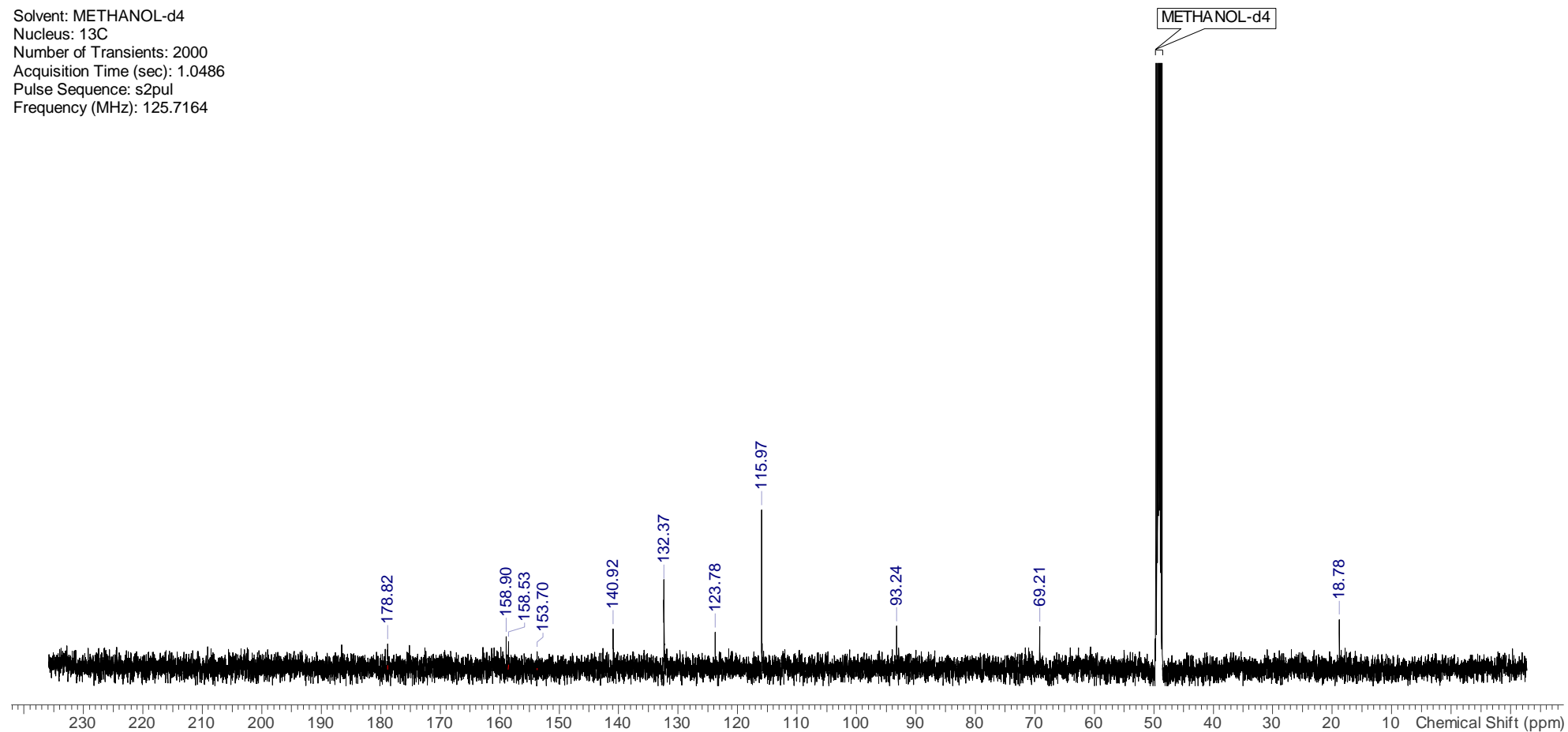
^1H NMR (499.9 MHz, CD_3OD) δ : 7.48 - 7.52 / 7.43 - 7.48 (4H, m, H-2'), 6.85 (1H, dd, $J = 5.8$ Hz, $J = 1.4$ Hz, H-6), 6.77 - 6.83 (4H, m, H-3'), 6.17 (1H, dd, $J = 5.8$ Hz, $J = 2.2$ Hz, H-5), 5.04 (1H, ddd, $J = 4.8$ Hz, $J = 2.1$ Hz, $J = 1.4$ Hz, H-7), 3.87 (1H, qd, $J = 6.4$ Hz, $J = 4.8$ Hz, H-8), 1.23 (3H, d, $J = 6.4$ Hz, H-9)

Solvent: METHANOL-d4
Nucleus: ^1H
Number of Transients: 16
Acquisition Time (sec): 5.0000
Pulse Sequence: s2pul
Frequency (MHz): 499.9139



^{13}C NMR (125.7 MHz, CD_3OD) δ : 178.9/178.8 (C-1), 158.9/158.5 (C-4'), 153.7 (C-3), 140.9 (C-6), 139.3 (C-4)*, 132.40/132.37 (C-2'), 123.8 (C-5), 121.9 (C-1')*, 116.0 (C-3')*, 113.8 (C-2), 93.2 (C-7), 69.2 (C-8), 18.8 (C-9) *: determined from HMBC spectrum

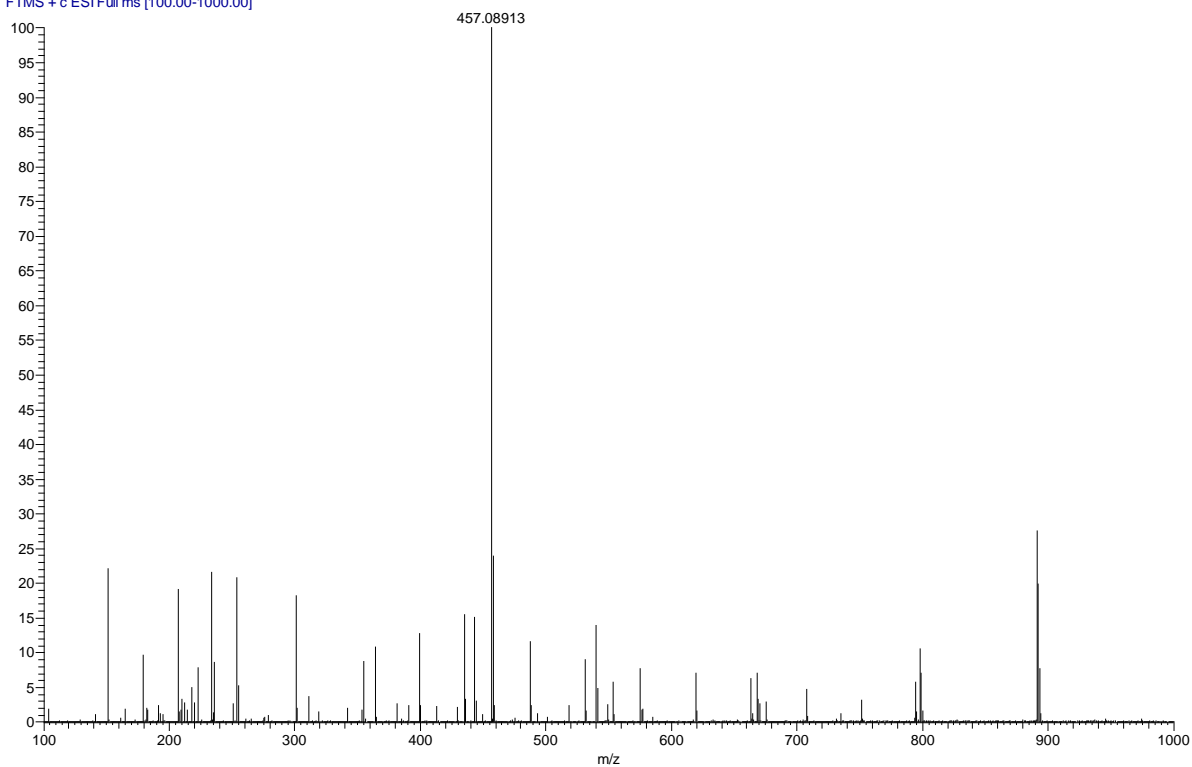
Solvent: METHANOL-d4
Nucleus: ^{13}C
Number of Transients: 2000
Acquisition Time (sec): 1.0486
Pulse Sequence: s2pul
Frequency (MHz): 125.7164



HRMS spectra and spectral data on compound 4

HRMS: $M+Na=457.08913$ ($\delta=-0.57$ ppm; $C_{24}H_{18}O_8Na$).

ku64330_paxatrb6_ft22073 #1-30 RT: 0.00-0.36 AV: 30 NL: 3.30E4
T: FTMS + c ESI Full ms [100.00-1000.00]



Full HRMS spectrum