

**Isolation and Identification of Cryptocaryols A-H, Pyrone-containing 1,3-polyols
Implicated in Stabilizing the Tumor Suppressor Pcd4**

Tanja Grkovic, Johanna S. Blee, Nancy H. Colburn, Tobias Schmid, Cheryl L. Thomas,
Curtis J. Henrich, James B. McMahon, and Kirk R. Gustafson *

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Figure S1. ^1H NMR spectrum of cryptocaryol A (**1**) in CD_3OD .

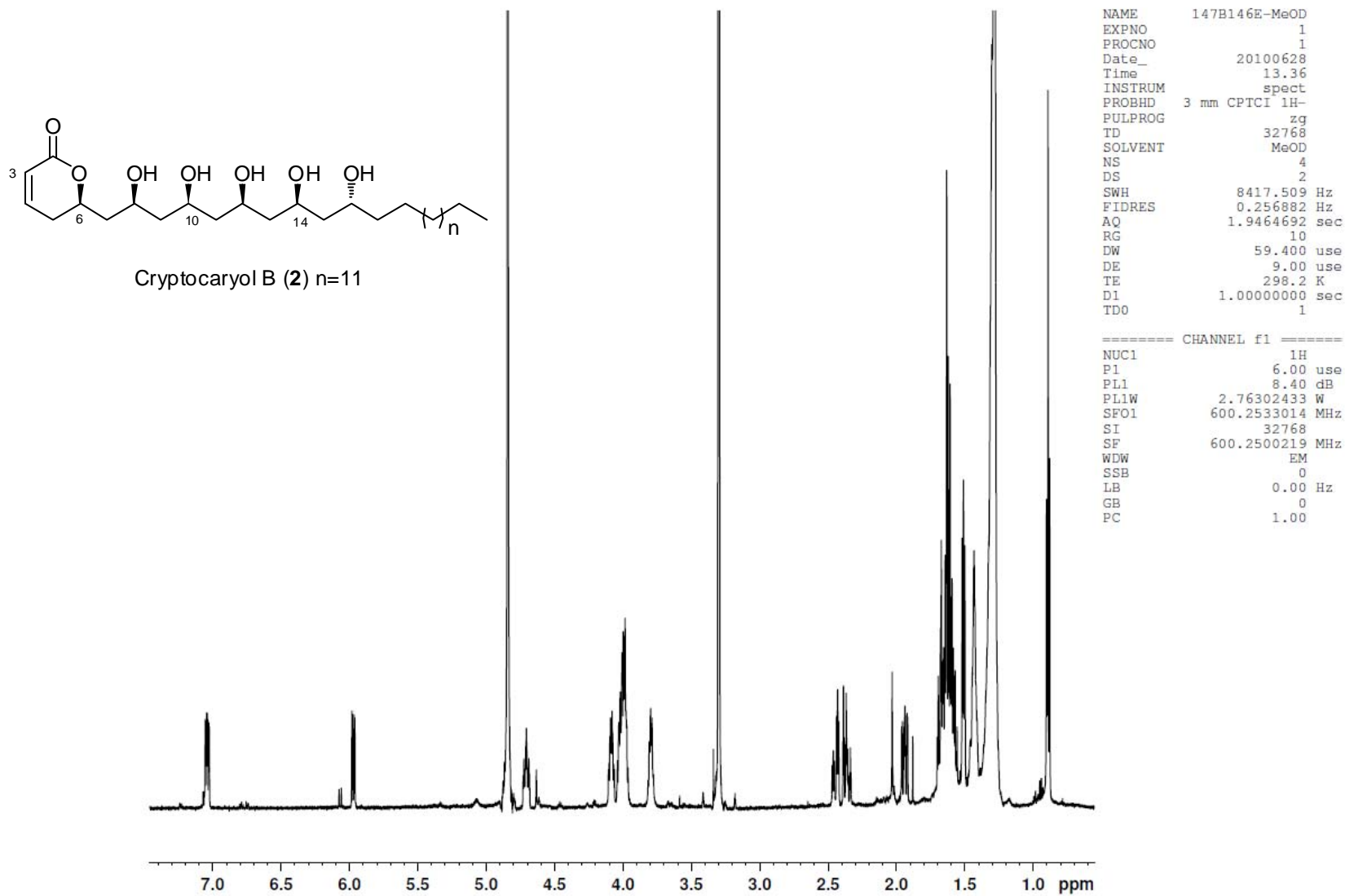


Figure S2. ^{13}C NMR spectrum of cryptocaryol A (**1**) in CD_3OD .

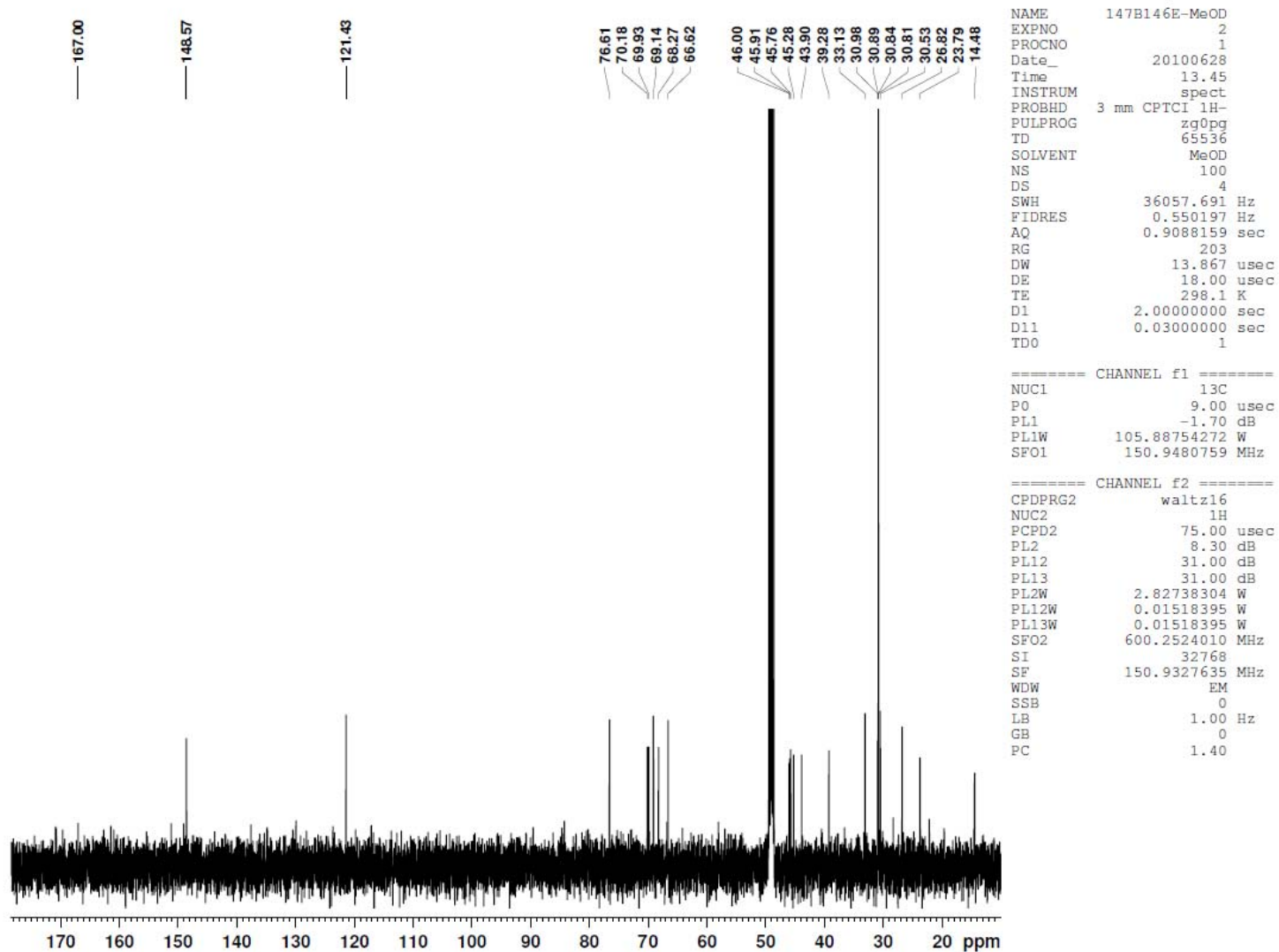
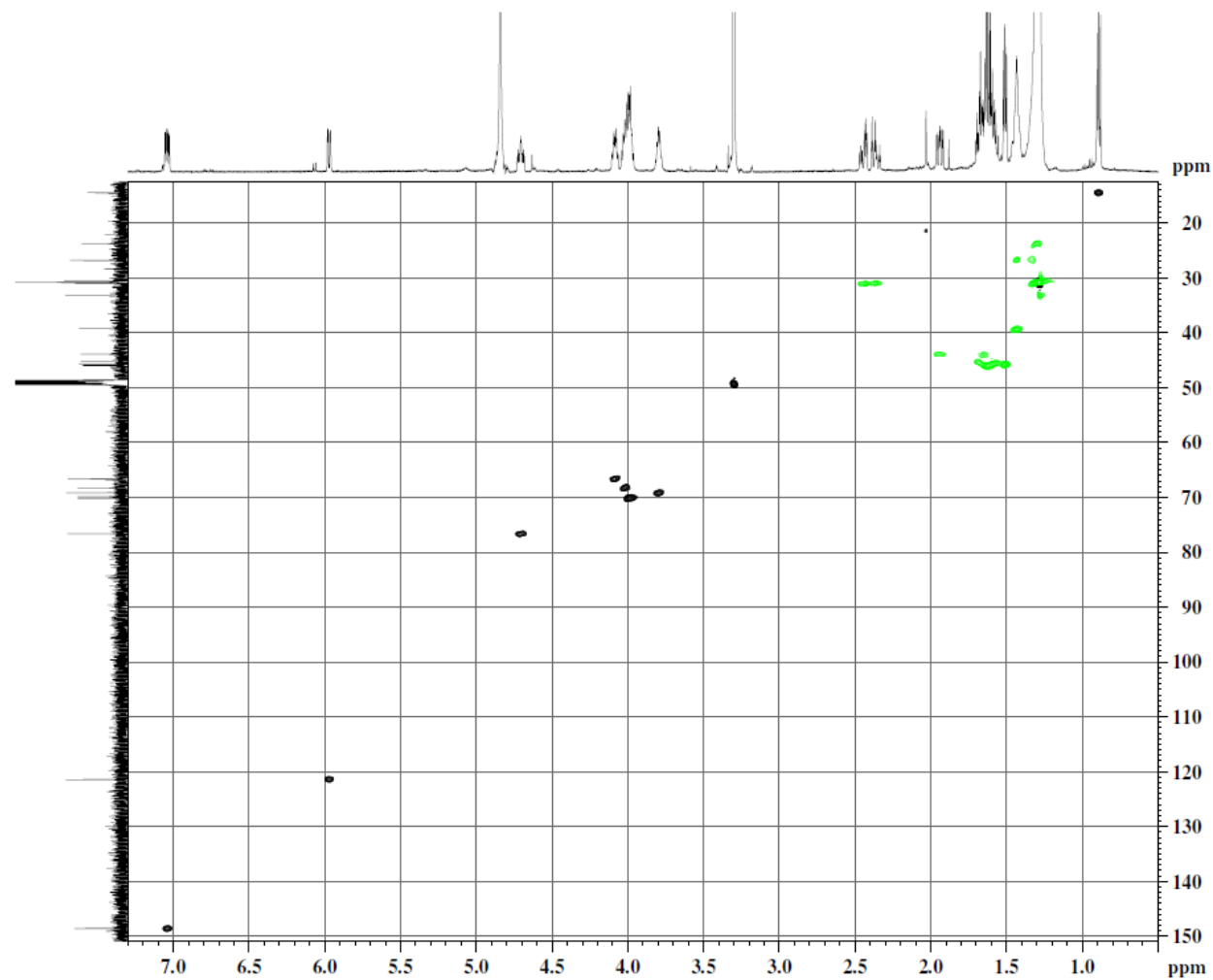


Figure S3. Edited HSQC spectrum of cryptocaryol A (1) in CD₃OD.



```

NAME 147H1462-Nu2D
EXPNO 1
PROCNO 1
DATE_ 20100701
TIME 20.59
INSTRUM spect
PROBHD 5 mm CPYCI 1H-
PULPROG hzgpgd04pgg14p2.4
TD 1024
SOLVENT Me2O
NS 8
DS 32
SWH 5411.250 Hz
FIDRES 0.284429 Hz
AQ 0.0946676 sec
RG 50.3
WF 92.400 usec
GB 6.50 usec
TE 299.15
CMT2 146.0000000
CMT11 -0.1000000
D0 0.0000300 sec
D1 1.0000000 sec
D2 0.00344928 sec
D4 0.0017454 sec
D11 0.0300000 sec
D14 0.0000000 sec
D21 0.0036000 sec
D24 0.0000000 sec
RG1 0.0002000 sec
LS 0
L31 1
TD0 2
----- CHANNEL f1 -----
NUC1 13
P1 6.00 usec
P2 13.60 usec
P28 0.00 usec
PUL 8.40 dB
PL2W 2.76302433 W
SFO1 600.216013 MHz
----- CHANNEL f2 -----
CFOPRG2 h1_gf04ep_4ep_2
NUC2 15N
P3 9.00 usec
P4 50.00 usec
P24 2000.00 usec
P31 1730.00 usec
P63 1200.00 usec
PL2 120.00 dB
PL22 -2.00 dB
PL12 14.48 dB
PL2W 0.0000000 W
PL2W 113.46054077 W
PL2W 2.3515976 W
SFO2 150.9450576 MHz
SFO3 7.07 MHz
SFO4 7.07 MHz
SFO8 8.00 MHz
SFO10 12.46 MHz
SFO11 14.58 MHz
SFOA03 Crp60, 0.5, 20.1
SFOA04 Crp60mm04
SFOA14 Crp37, 1.5, 20.2
SFOA19 Crp66_xf11c_2
SFOA21 Crp37, 1.5, 20.2
SFOA23 0.500
SFOA24 0.500
SFOA25 0.500
SFOA26 0.500
SFOA27 0.00 Hz
SFOA28 0.00 Hz
SFOA29 0.00 Hz
SFOA30 0.00 Hz
SFOA31 0.00 Hz
----- GRADIENT CHANNEL -----
SFOA01 SIME, 100
SFOA02 SIME, 100
SFOA03 SIME, 100
SFOA04 SIME, 100
SFO1 80.00 MHz
SFO2 20.10 MHz
SFO3 15.00 MHz
SFO4 1000.00 usec
SFO5 600.00 usec
TD 2
NUC 13
SFO1 150.9450 MHz
SFO2 193.353592 Hz
SFO3 105.658 ppm
SFO4 Echo-AntiEcho
SI 1024
SF 600.2505187 MHz
WDM 2
SFO 2
LB 0.00 Hz
GB 0
PC 1.00
SI 1024
MC2 echo-antiEcho
SF 150.9327488 MHz
WDM 2
SFO 2
LB 0.00 Hz
GB 0
  
```

Figure S4. HMBC spectrum of cryptocaryol A (1) in CD₃OD.

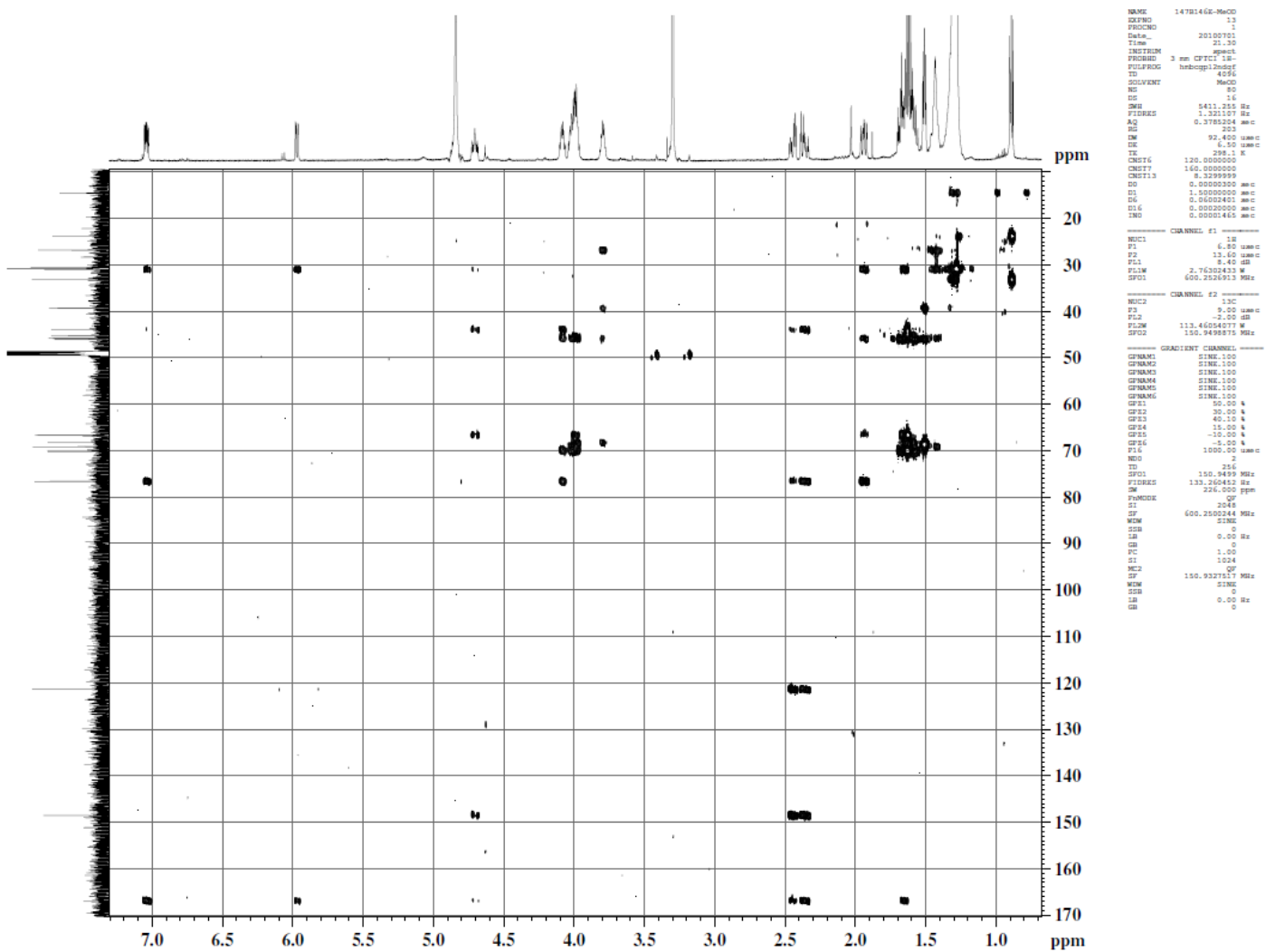


Figure S5. LRLCMS spectra of cryptocaryol A (1).

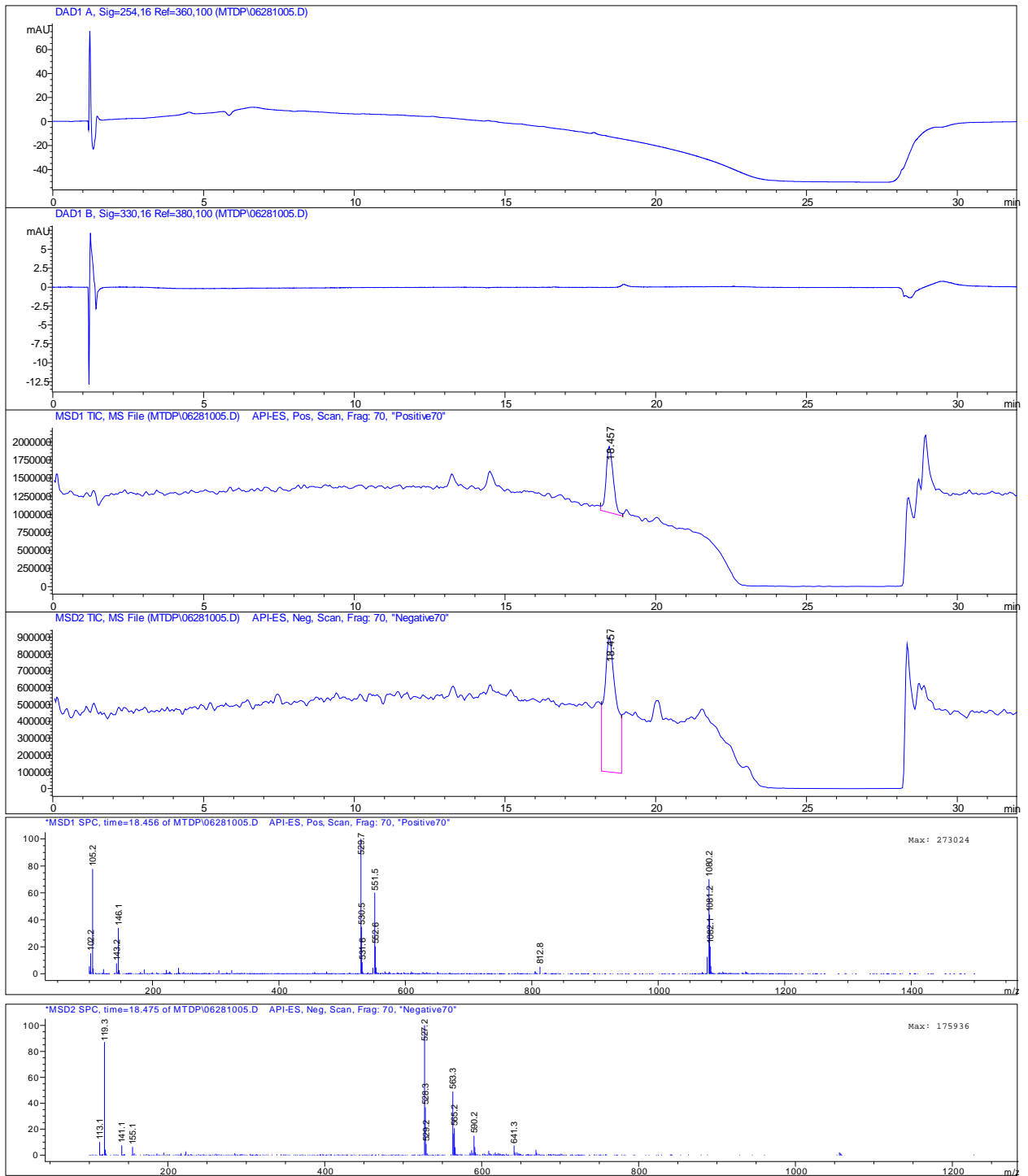


Figure S6. HRESIMS spectrum of cryptocaryol A (**1**).

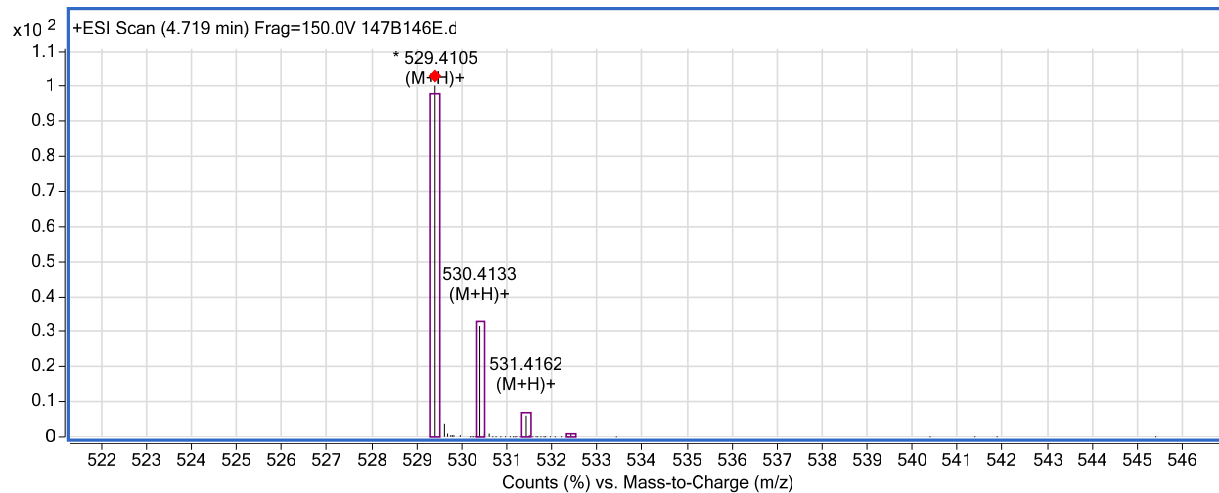


Figure S7. HRESIMS/MS spectra of cryptocaryol A (**1**).

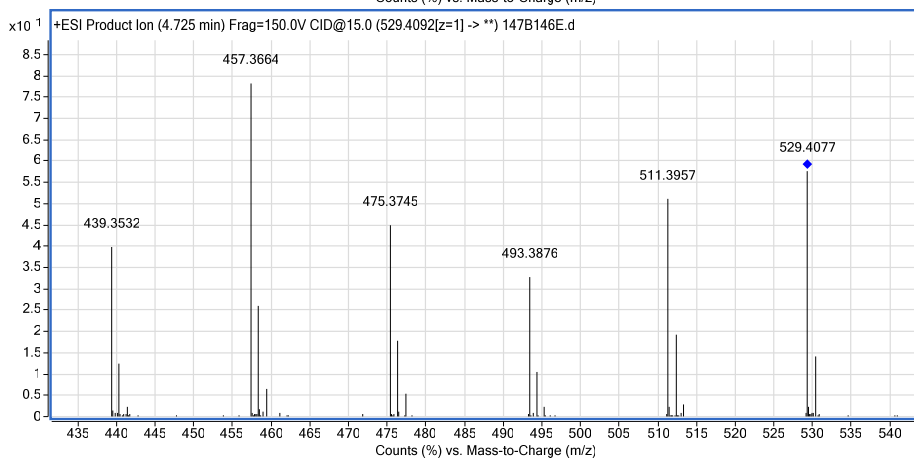
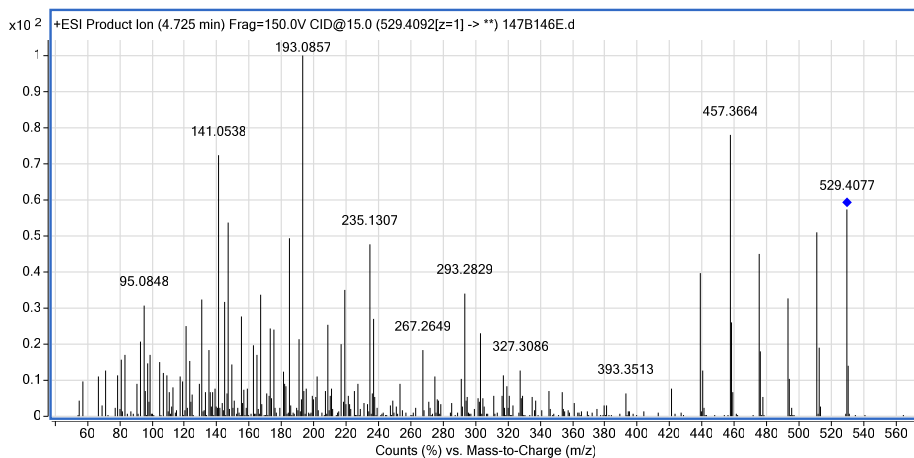
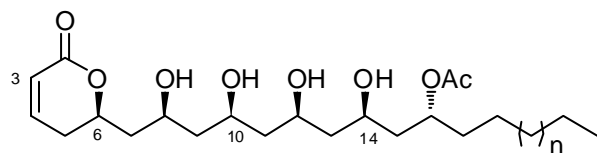
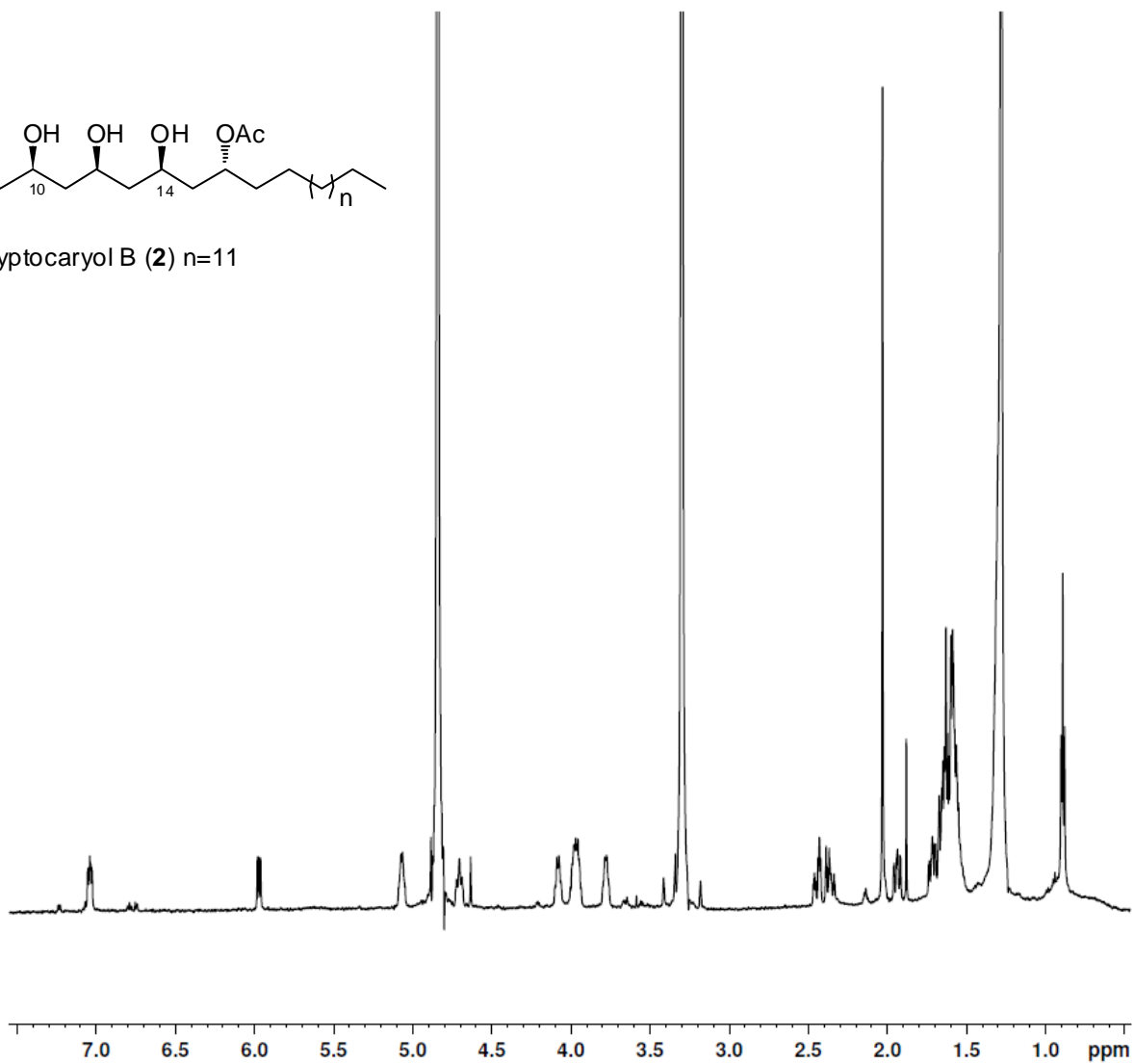


Figure S8. ^1H NMR spectrum of cryptocaryol B (**2**) in CD_3OD .



Cryptocaryol B (**2**) $n=11$



```
NAME      147B147G-MeOD
EXPNO     1
PROCNO    1
Date_     20100702
Time      14.42
INSTRUM   spect
PROBHD    3 mm CPTCI 1H-
PULPROG   zg
TD         32768
SOLVENT   MeOD
NS         4
DS         2
SWH       8417.509 Hz
FIDRES    0.256882 Hz
AQ        1.9464692 sec
RG         10
DW        59.400 use
DE         9.00 use
TE        298.1 K
D1        1.00000000 sec
TDO       1
```

```
===== CHANNEL f1 =====
NUC1      1H
P1        6.00 use
PL1       8.40 dB
PL1W      2.76302433 W
SFO1     600.2533014 MHz
SI        32768
SF        600.2500219 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB         0
PC        1.00
```

Figure S9. ^{13}C NMR spectrum of cryptocaryol B (**2**) in CD_3OD .

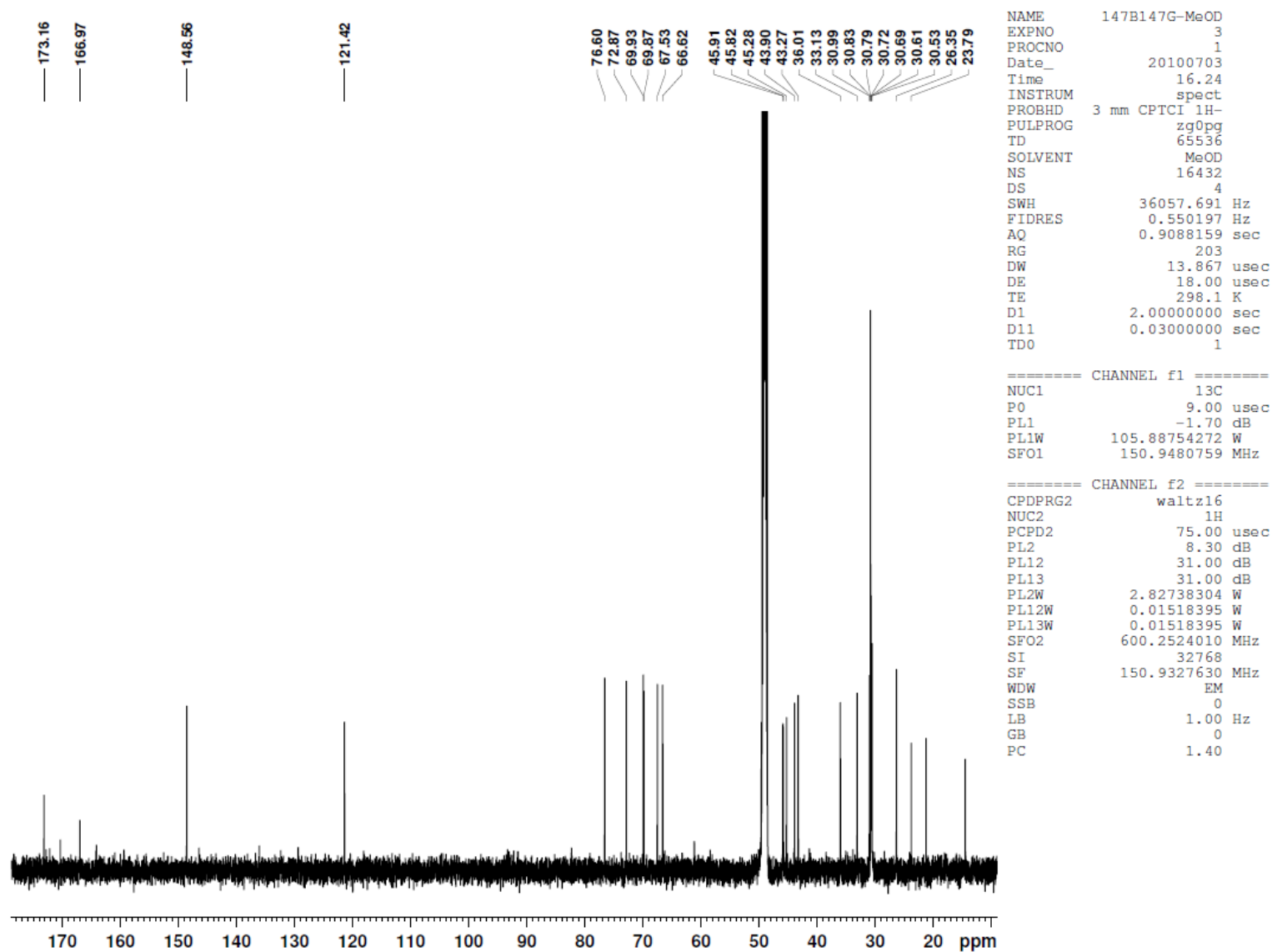


Figure S10. LRLCMS spectra of cryptocaryol B (2).

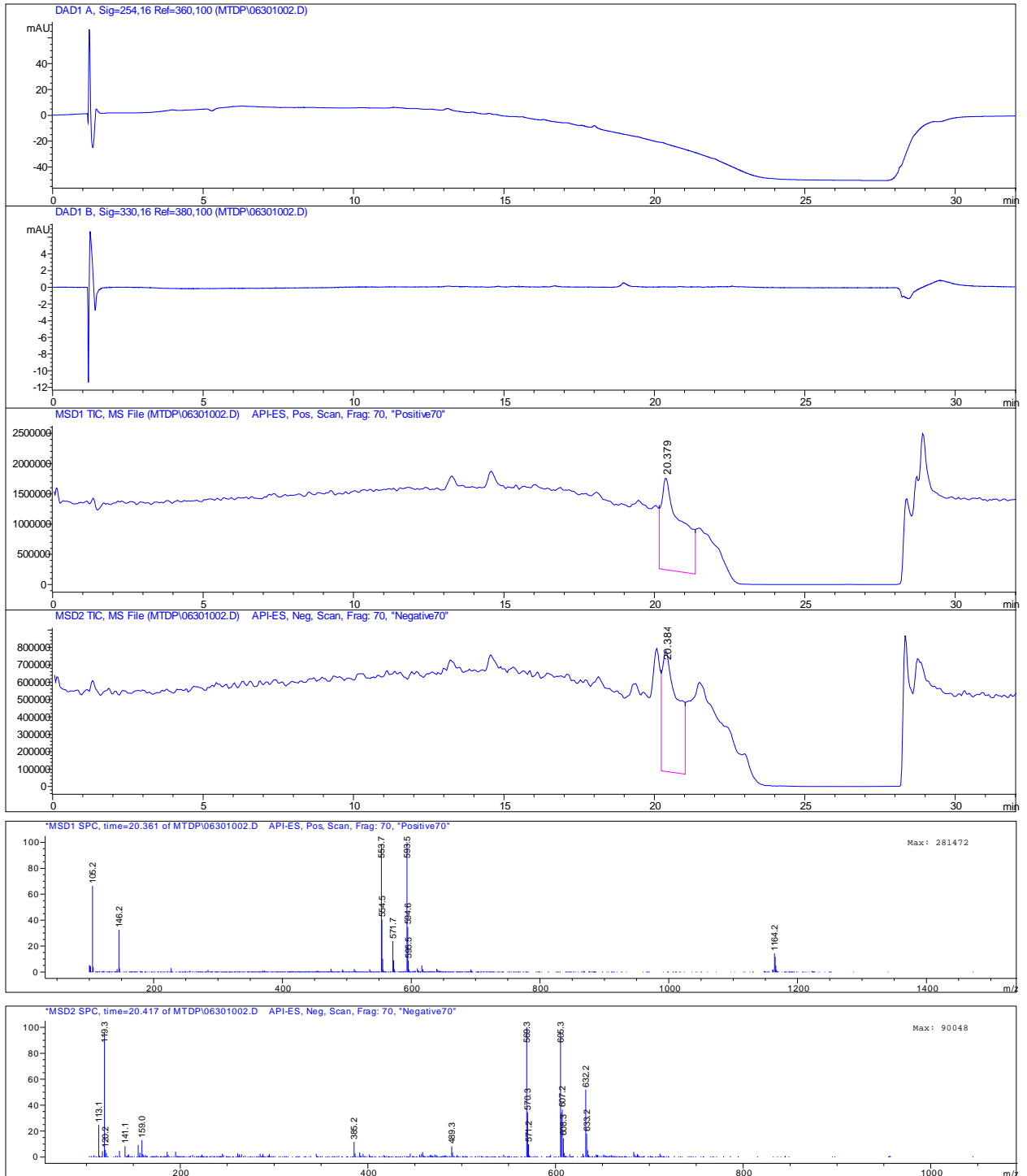


Figure S11. HRESIMS spectrum of cryptocaryol B (2).

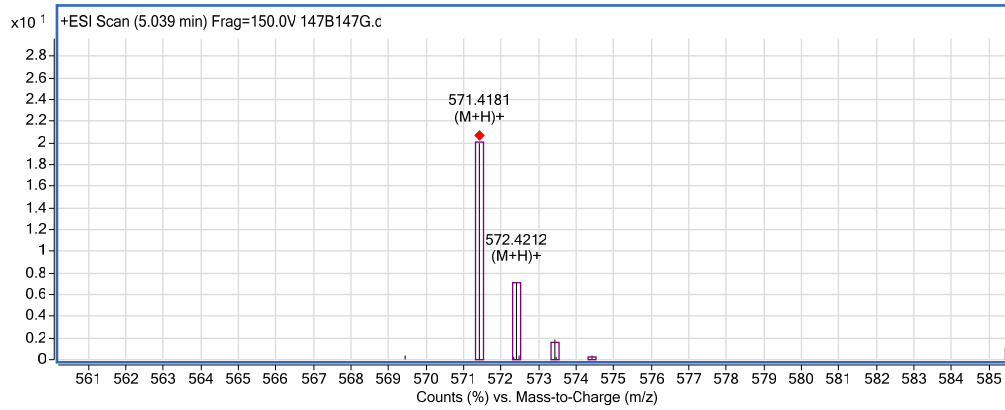


Figure S12. HRESIMS/MS spectrum of cryptocaryol B (2).

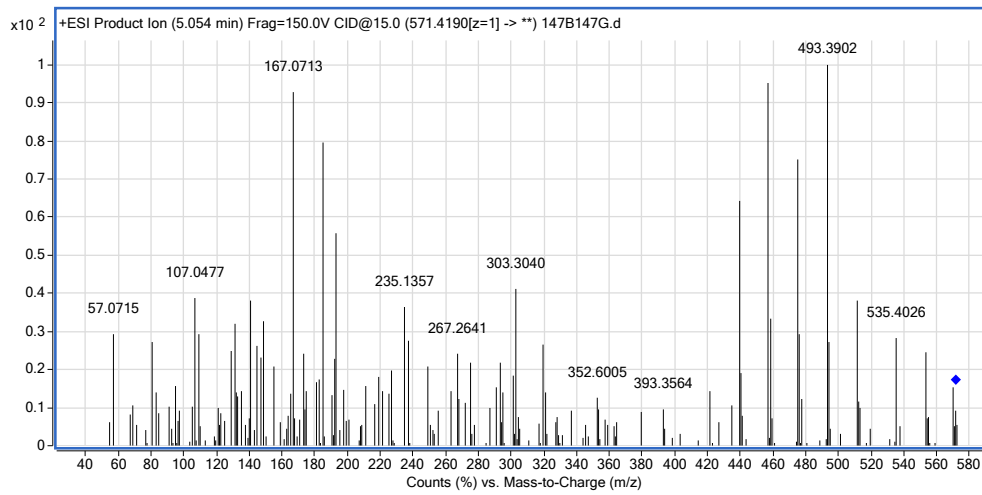


Figure S13. ^1H NMR spectrum of cryptocaryol C (**3**) in CD_3OD .

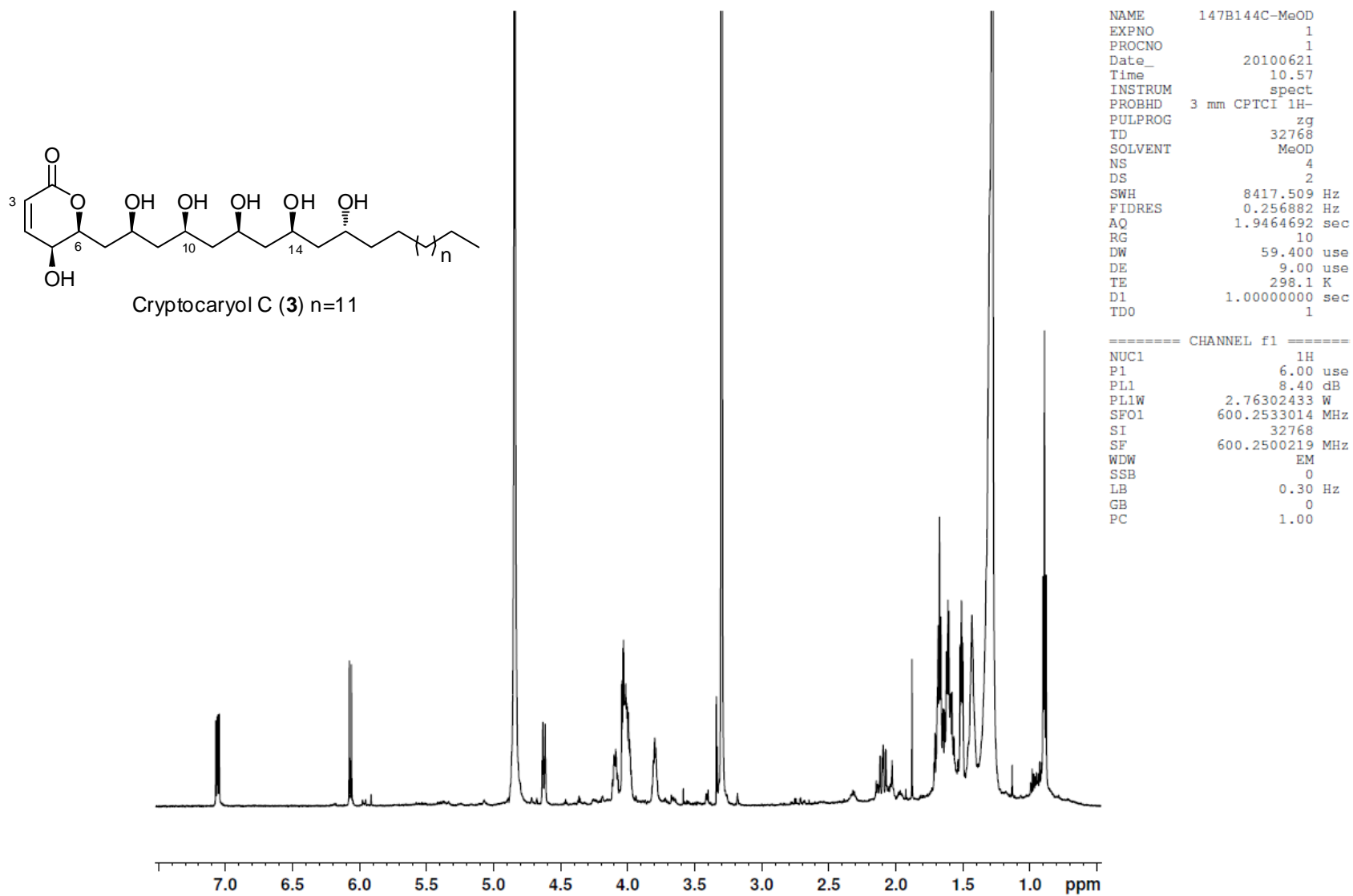


Figure S14. ^{13}C NMR spectrum of cryptocaryol C (**3**) in CD_3OD .

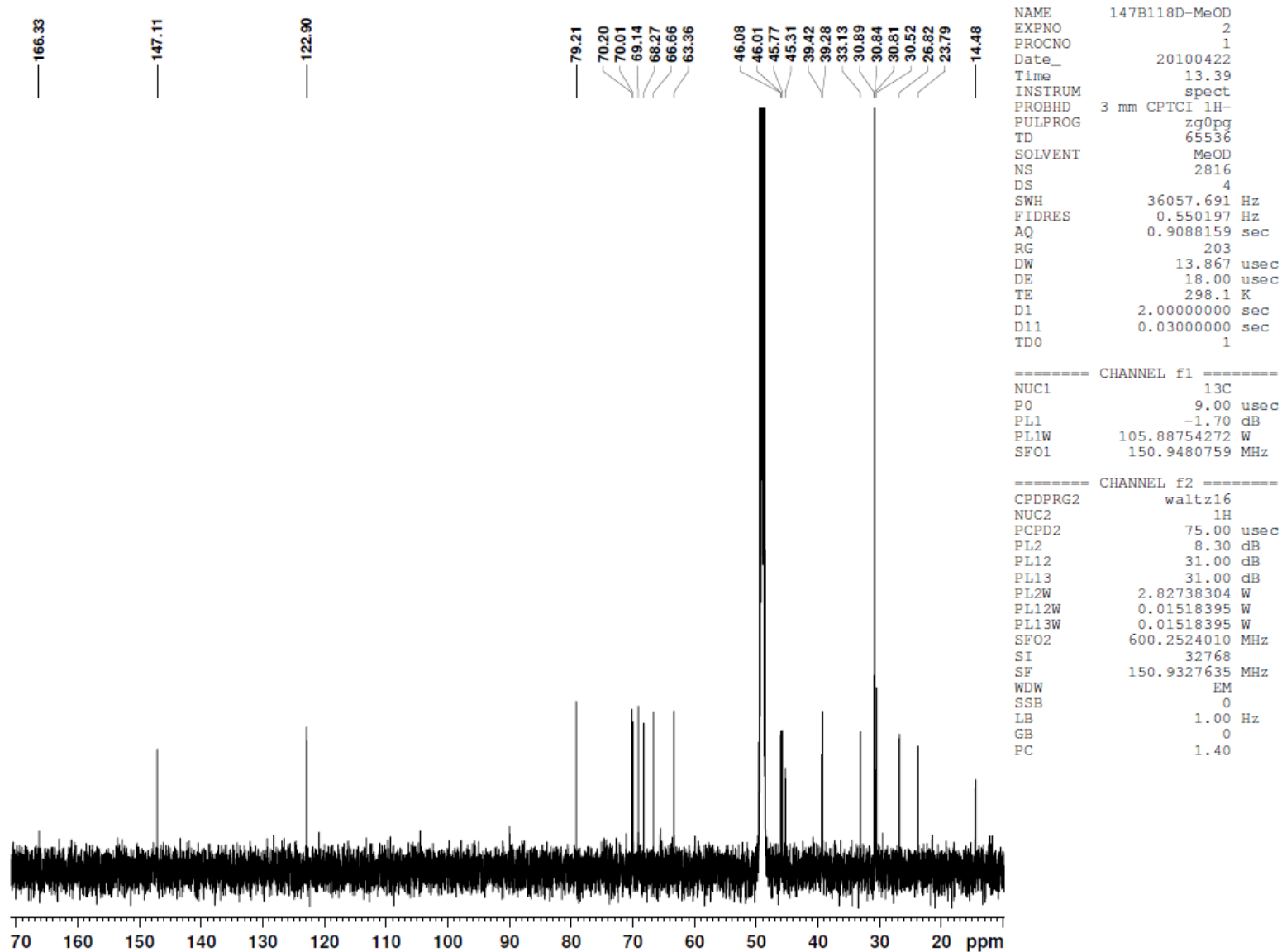


Figure S15. LRLCMS spectra of cryptocaryol C (3).

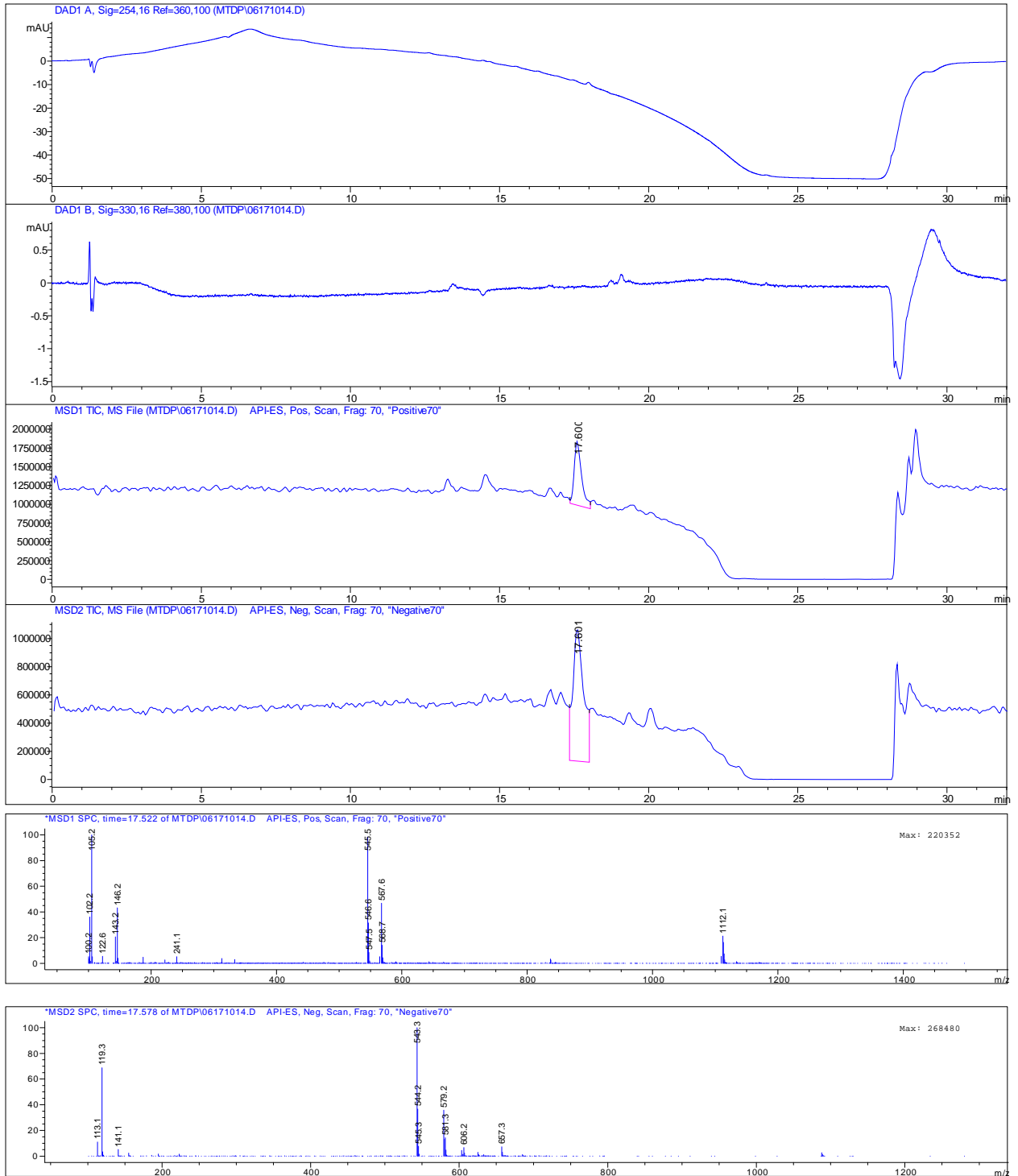


Figure S16. HRESIMS spectrum of cryptocaryol C (**3**).

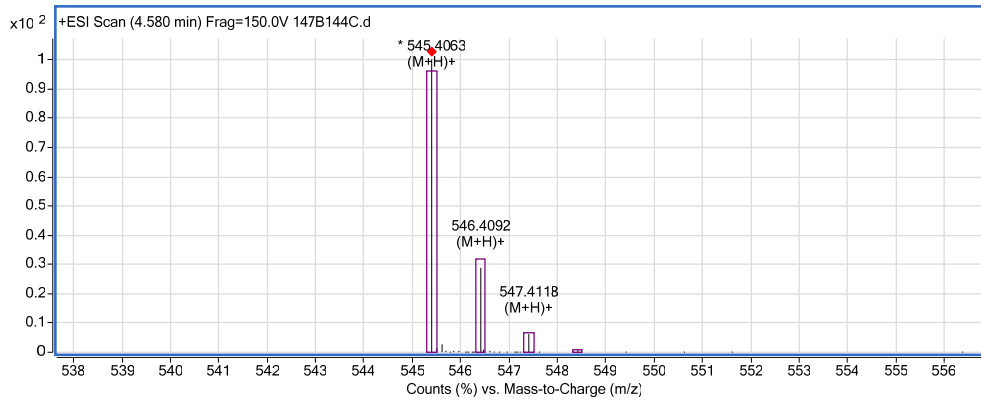


Figure S17. HRESIMS/MS spectra of cryptocaryol C (**3**).

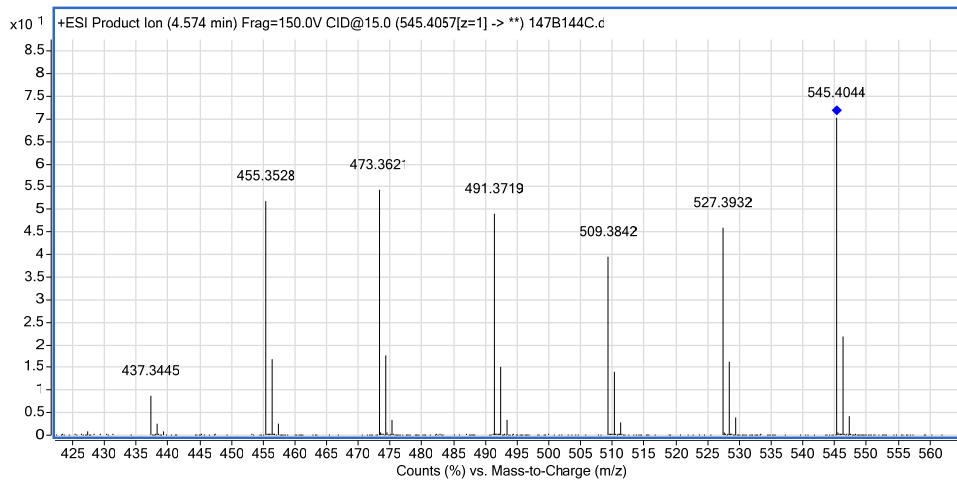
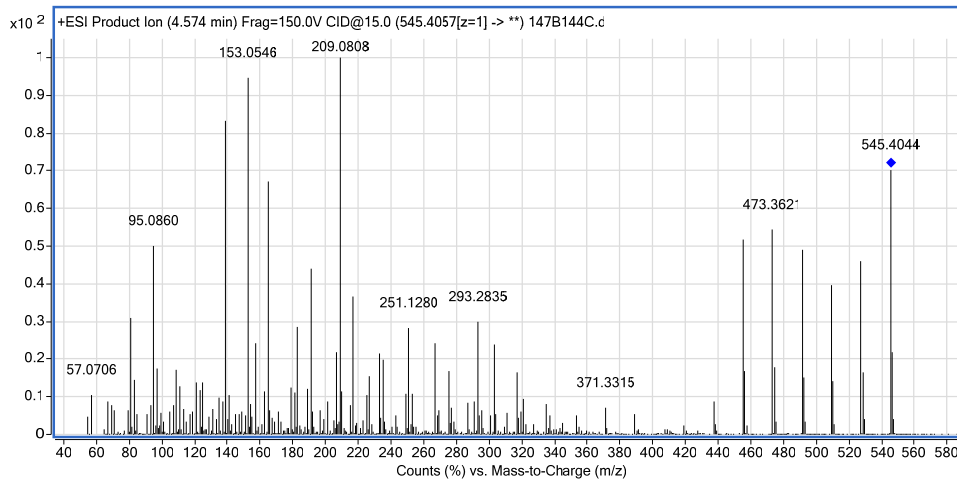


Figure S18. ^1H NMR spectrum of cryptocaryol D (**4**) in CD_3OD .

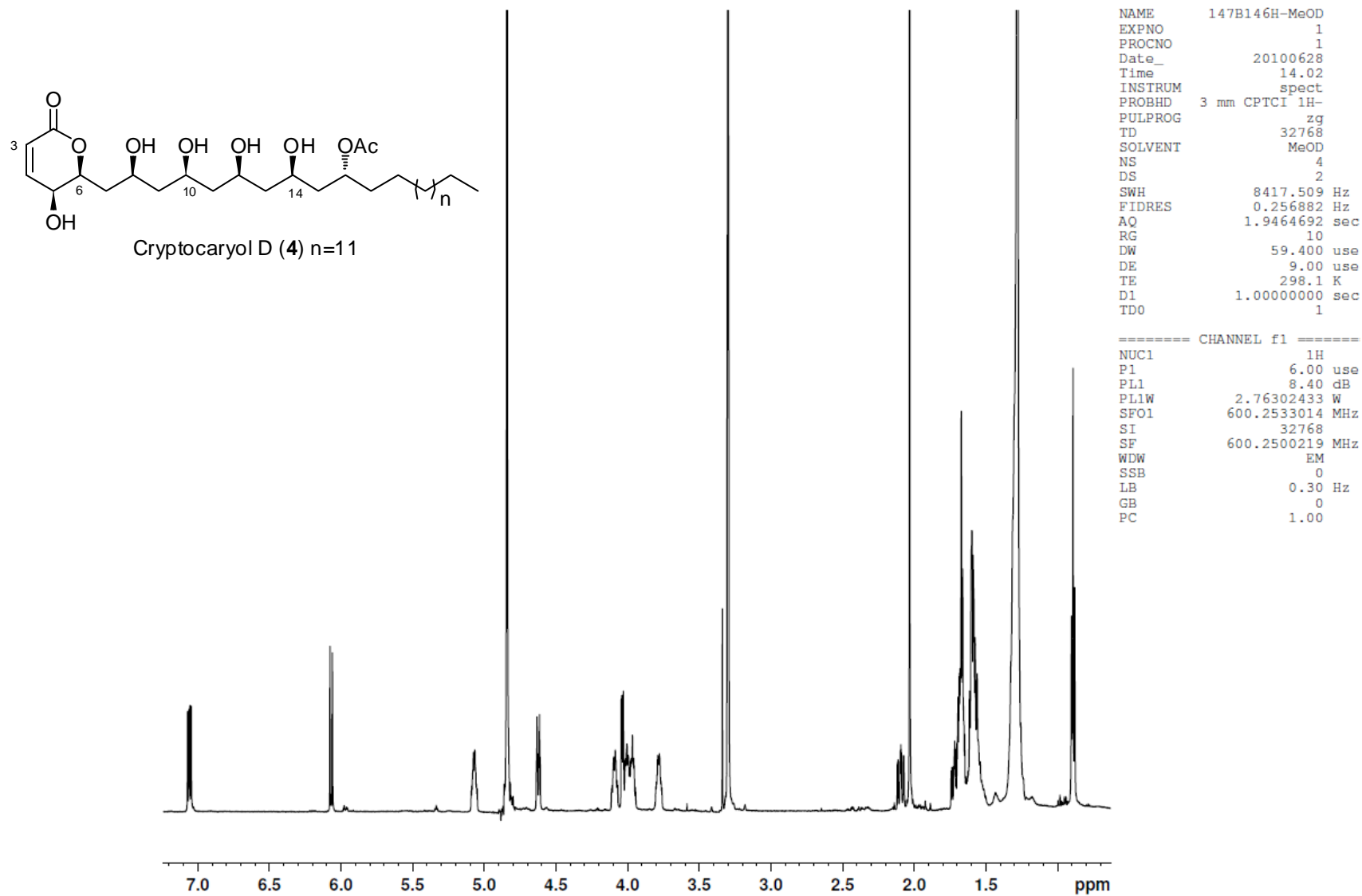


Figure S19. ^{13}C NMR spectrum of cryptocaryol D (**4**) in CD_3OD .

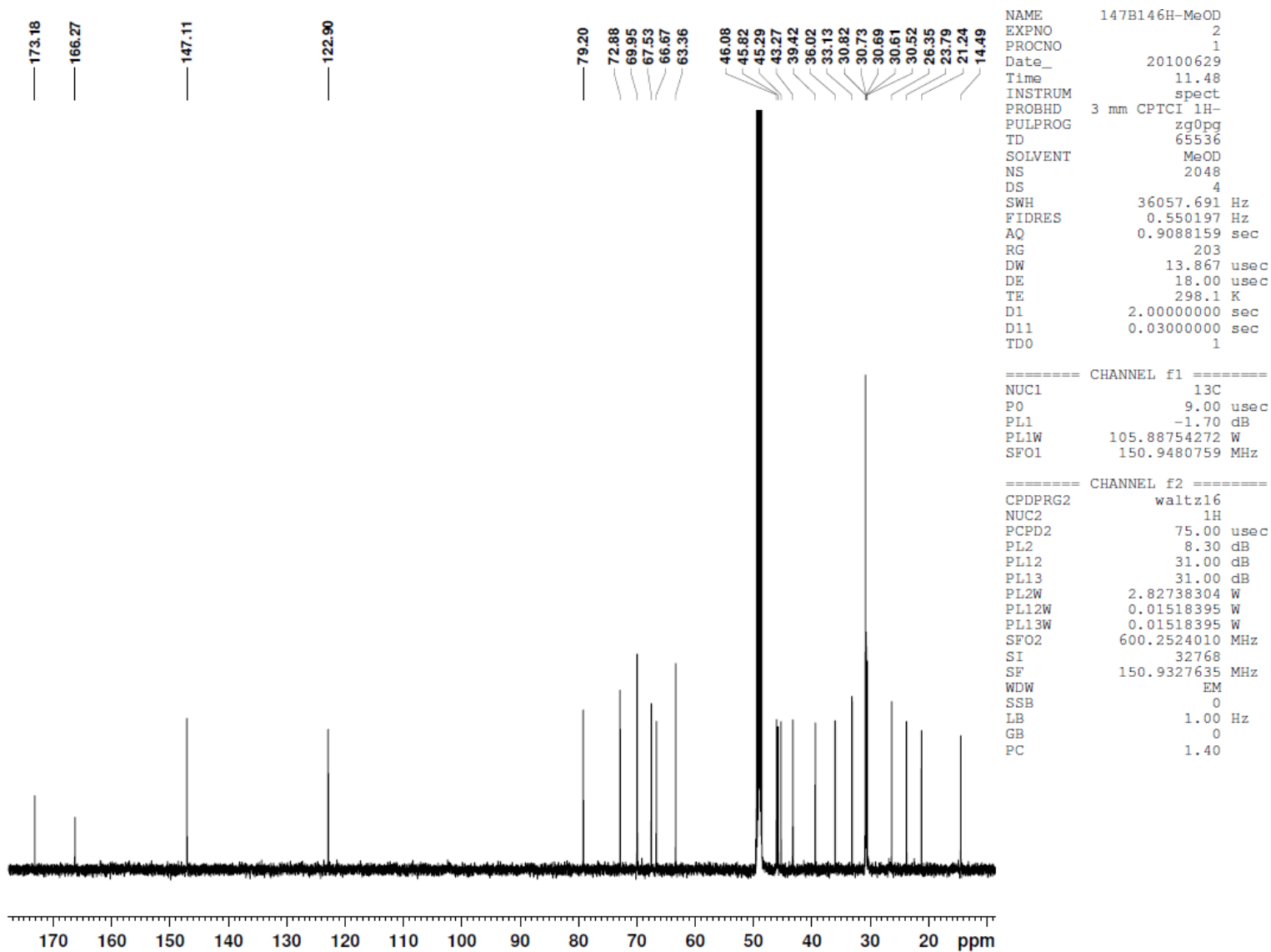


Figure S20. LRLCMS spectra of cryptocaryol C (4).

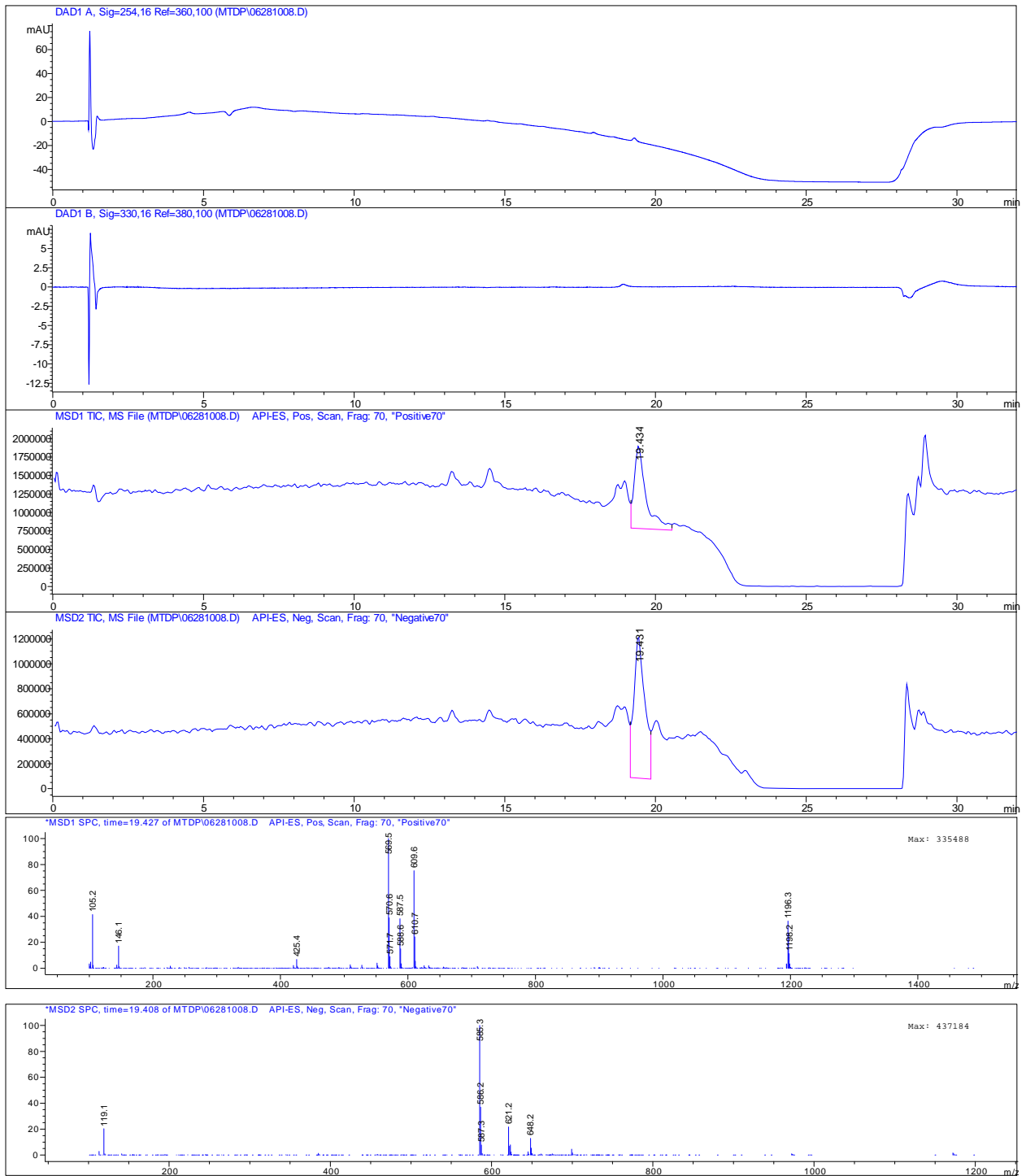


Figure S21. HRESIMS spectrum of cryptocaryol D (**4**).

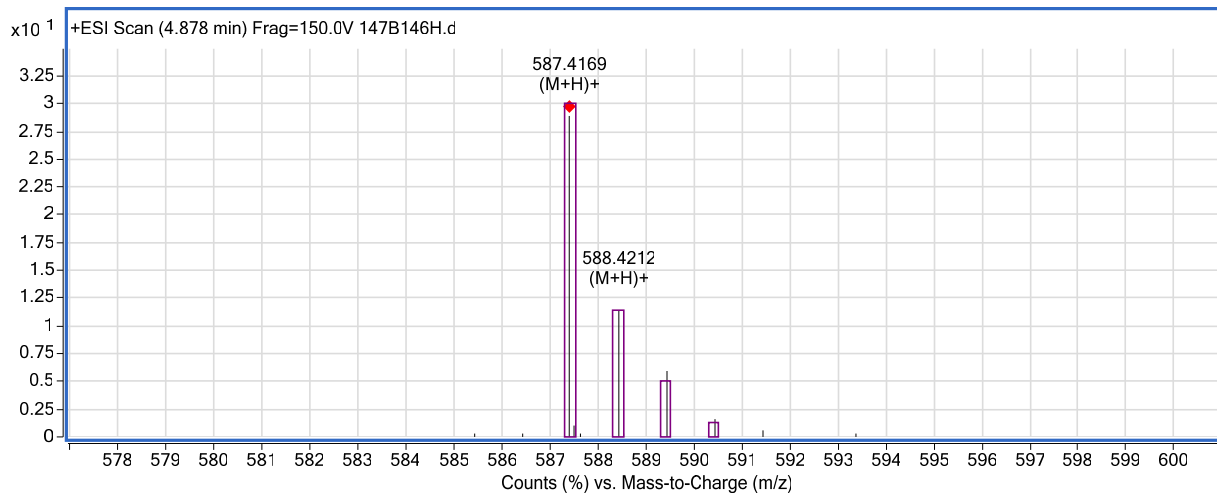


Figure S22. HRESIMS/MS spectrum of cryptocaryol D (**4**).

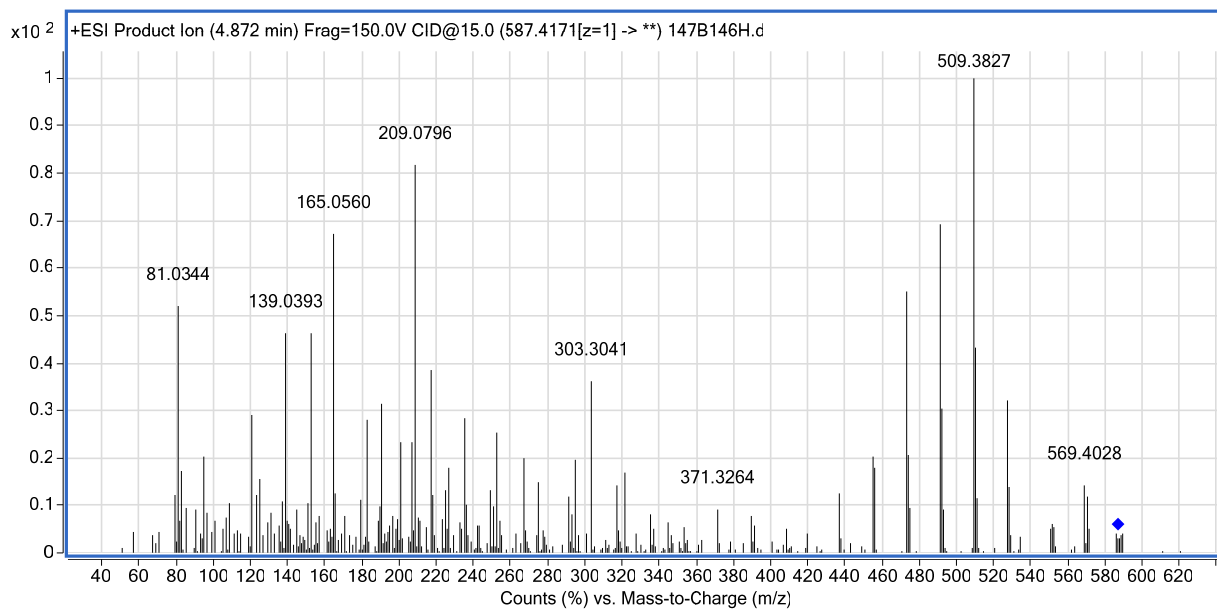


Figure S23. ^1H NMR spectrum of cryptocaryol E (5) in CD_3OD .

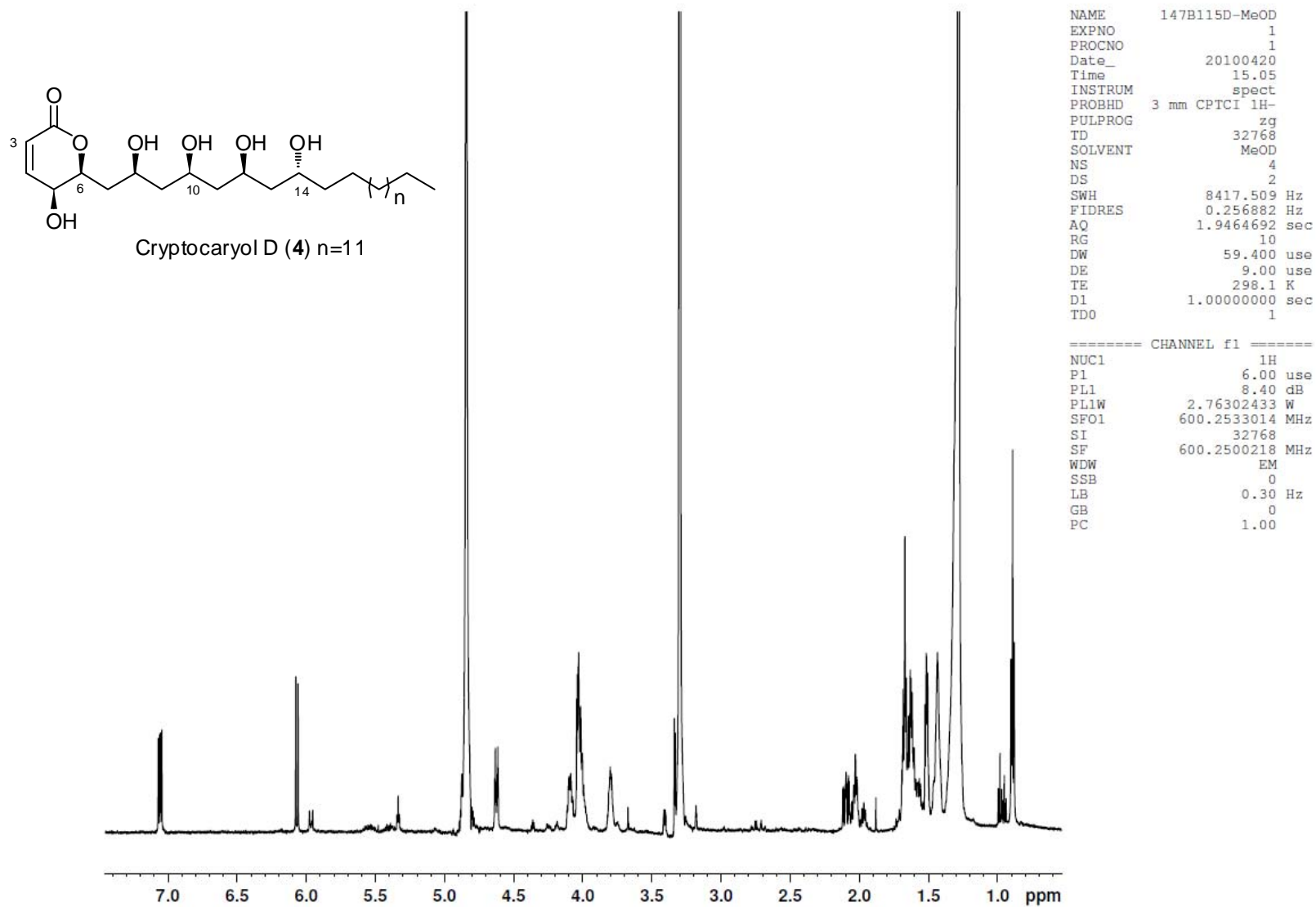


Figure S24. ^{13}C NMR spectrum of cryptocaryol E (**5**) in CD_3OD .

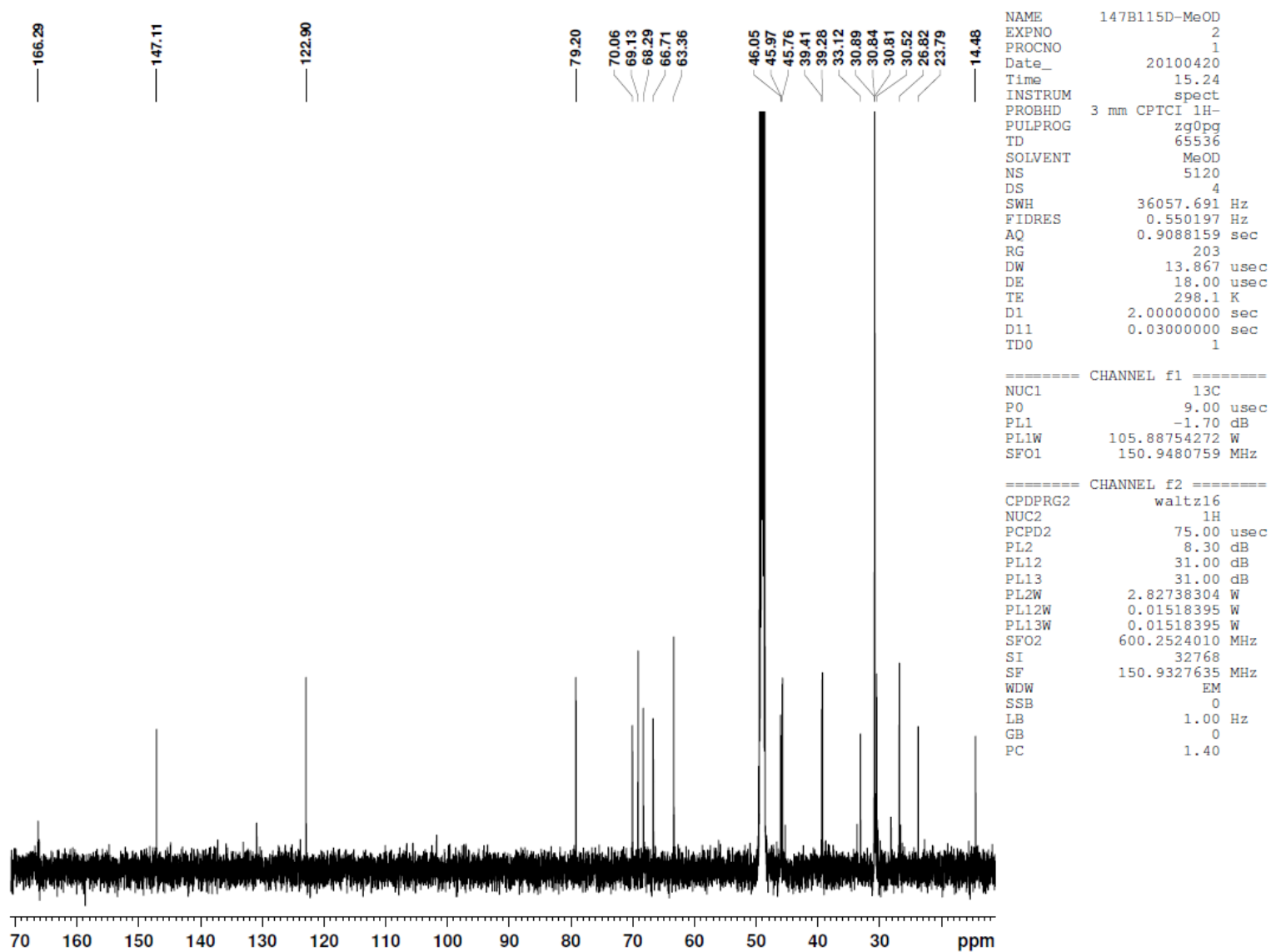


Figure S25. LRLCMS spectra of cryptocaryol E (5).

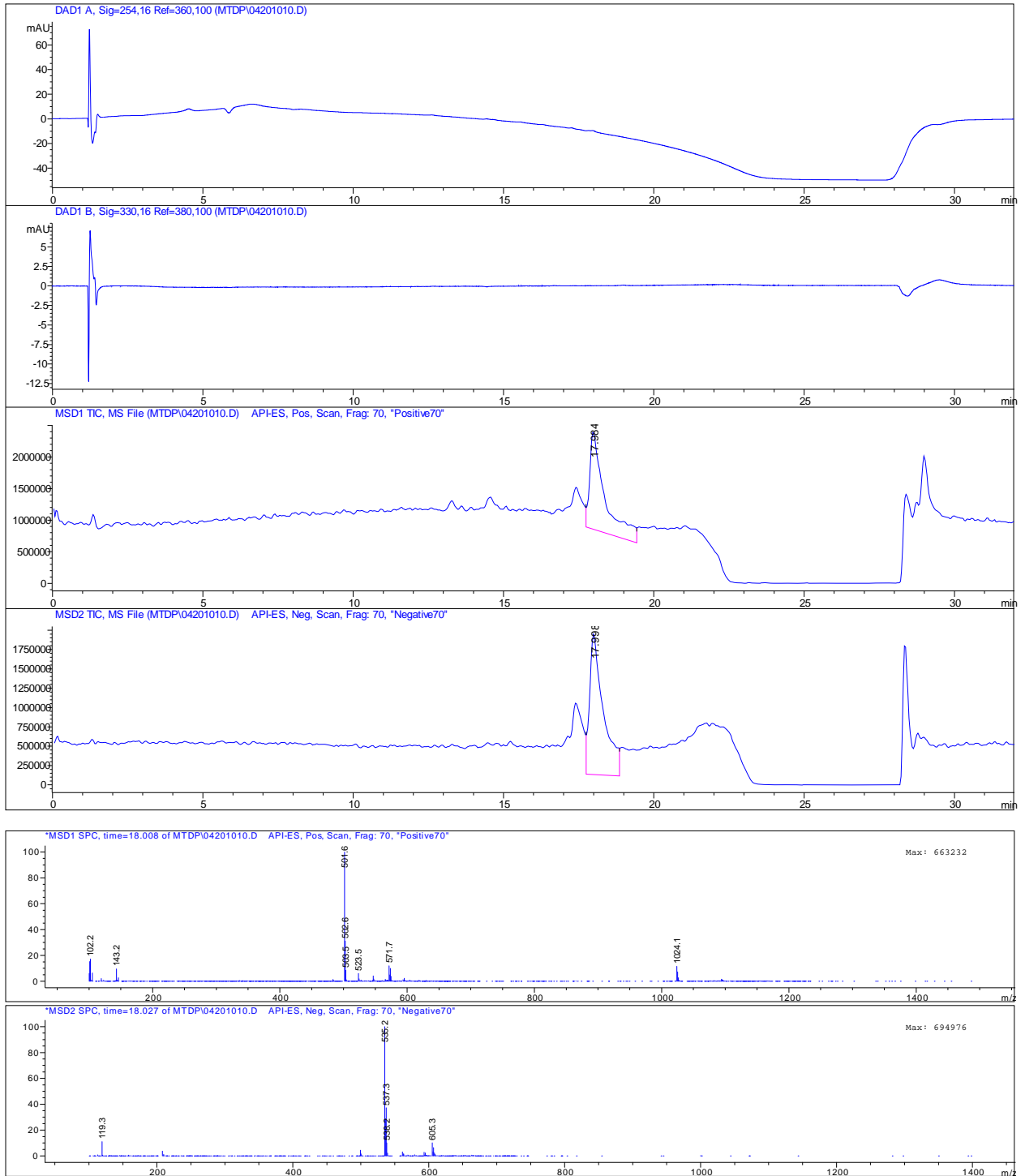


Figure S26. HRESIMS spectrum of cryptocaryol E (**5**).

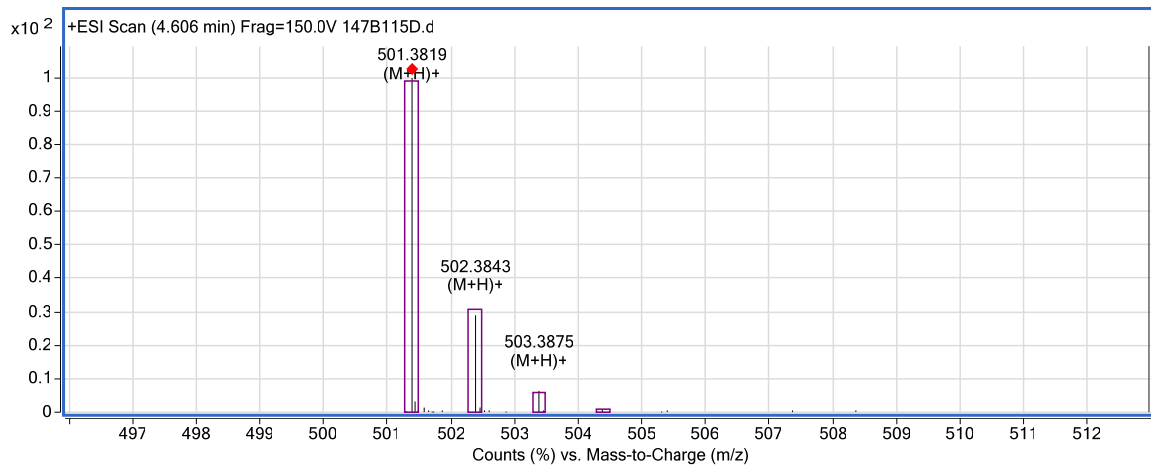


Figure S27. HRESIMS/MS spectra of cryptocaryol E (**5**).

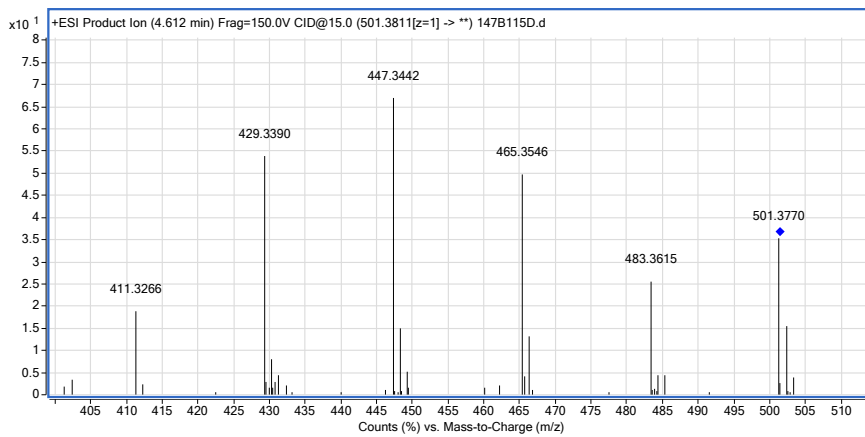
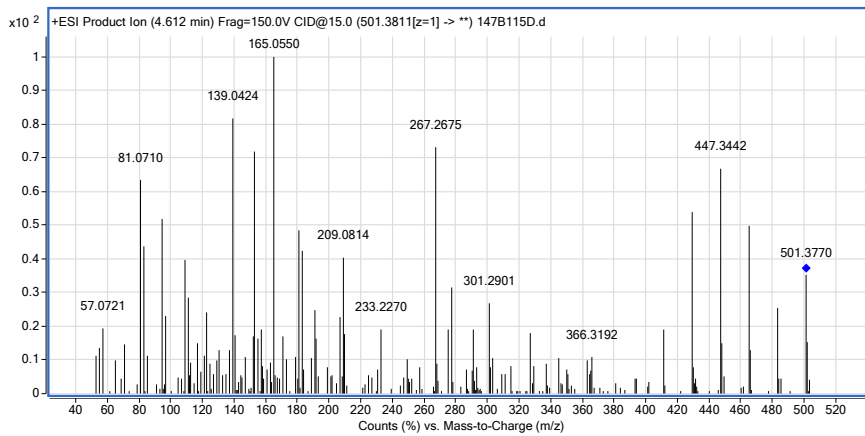


Figure S28. ^1H NMR spectrum of cryptocaryol F (**6**) in CD_3OD .

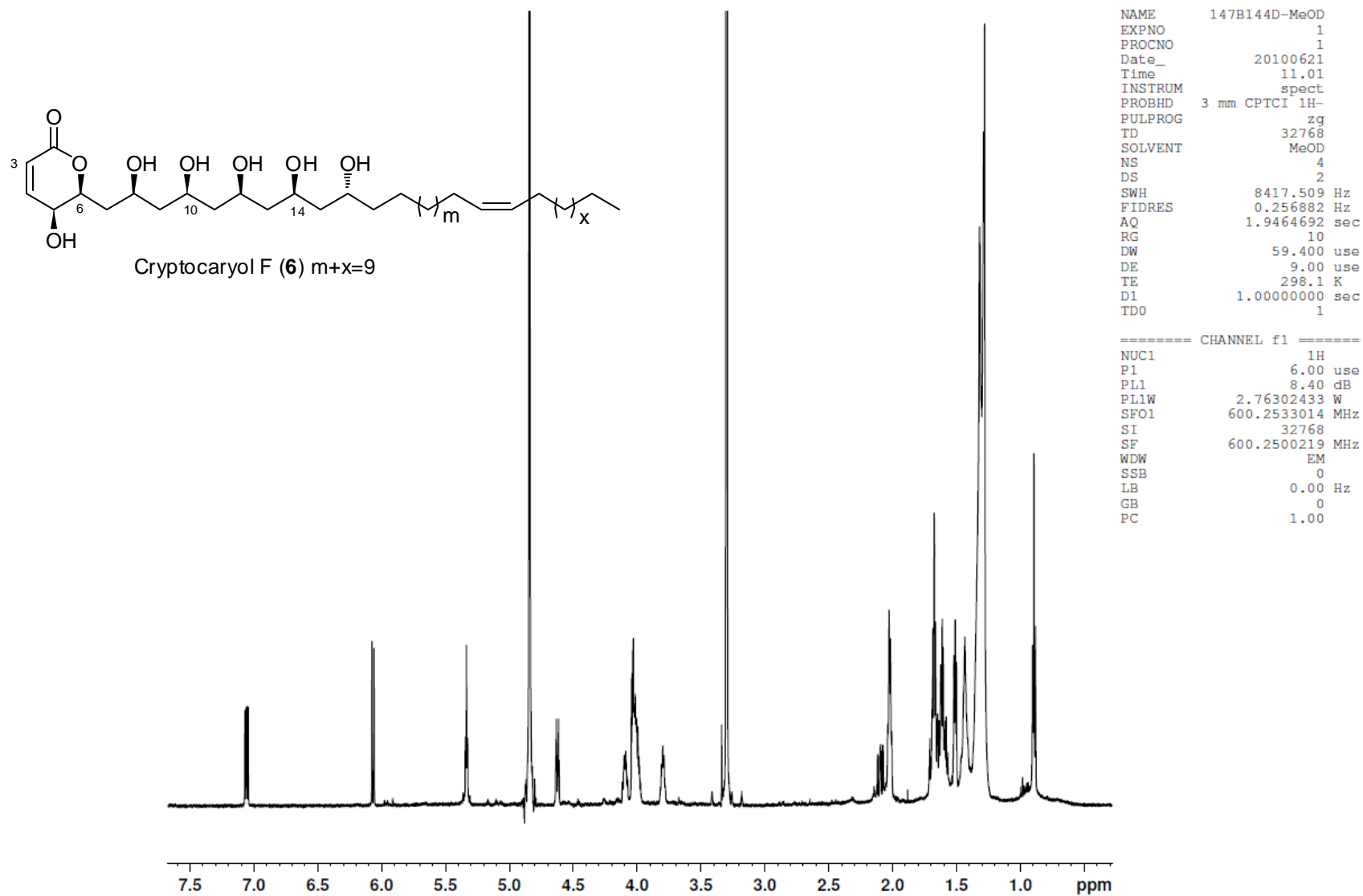


Figure S29. ^{13}C NMR spectrum of cryptocaryol F (**6**) in CD_3OD .

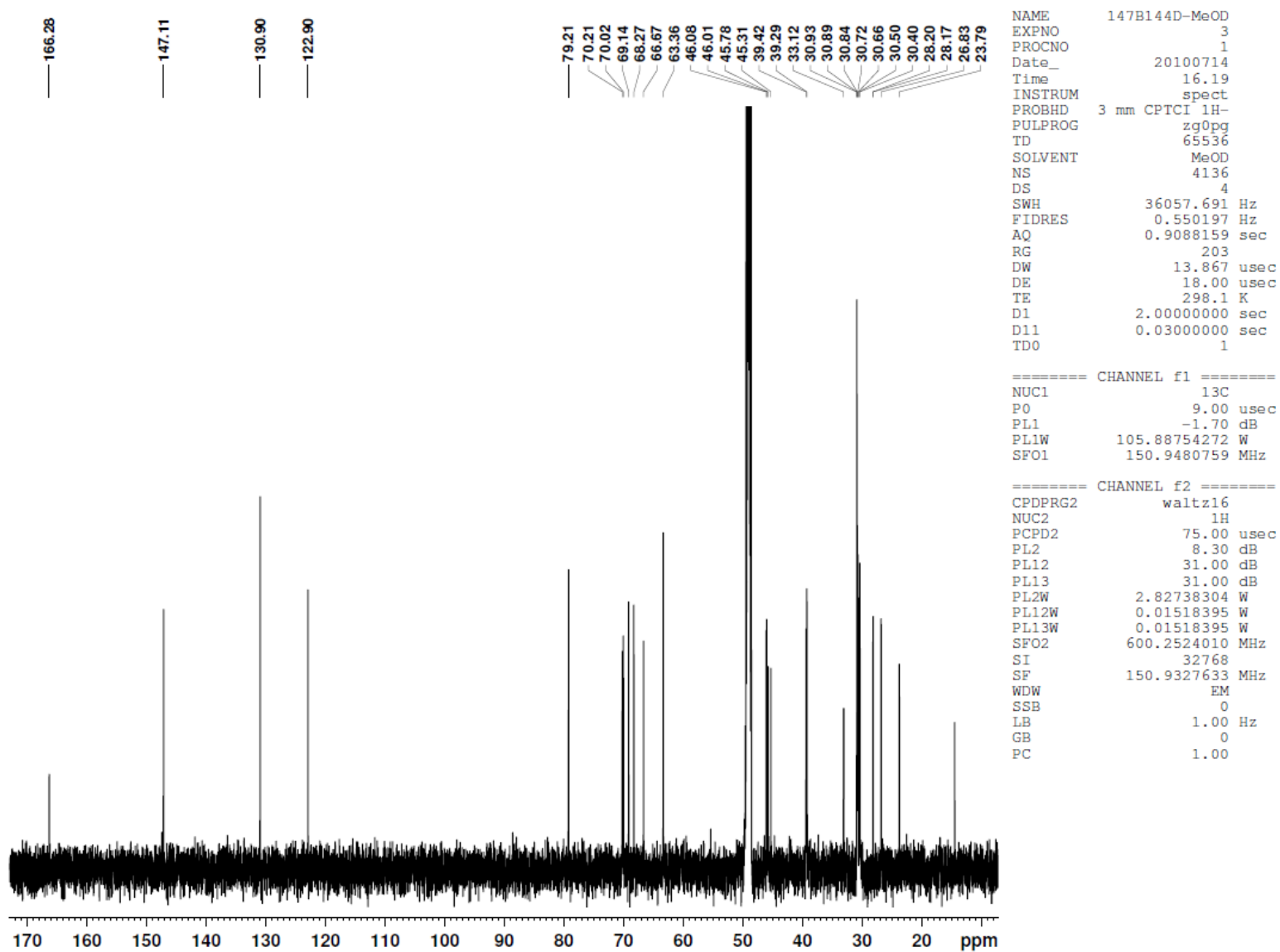


Figure S30. LRLCMS spectra of cryptocaryol F (6).

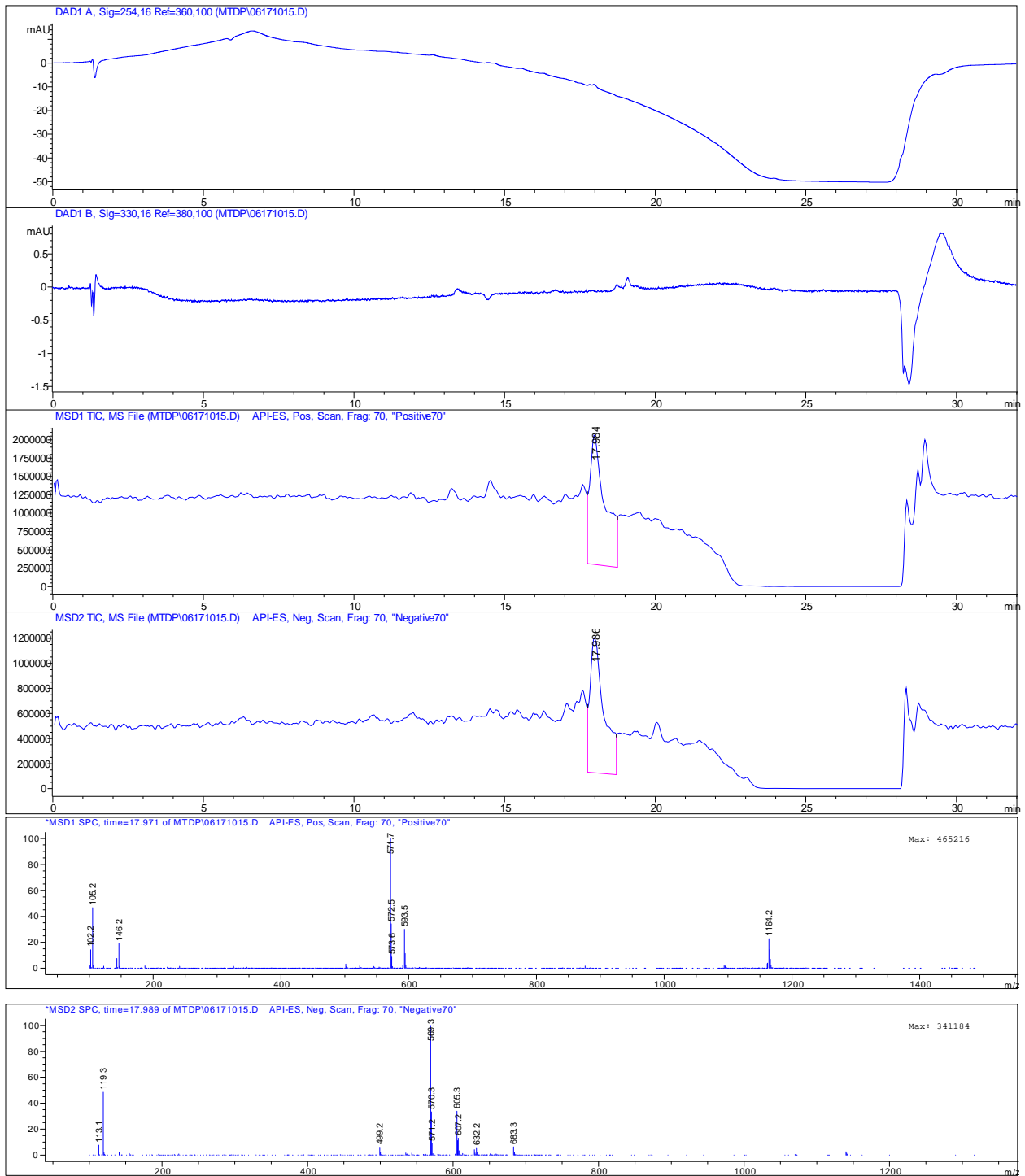


Figure S31. HRESIMS spectrum of cryptocaryol F (**6**).

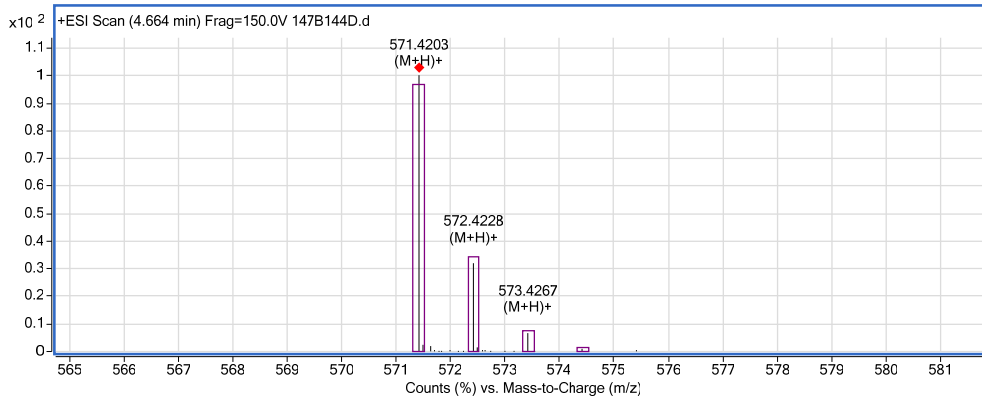


Figure S32. HRESIMS spectra of cryptocaryol F (**6**).

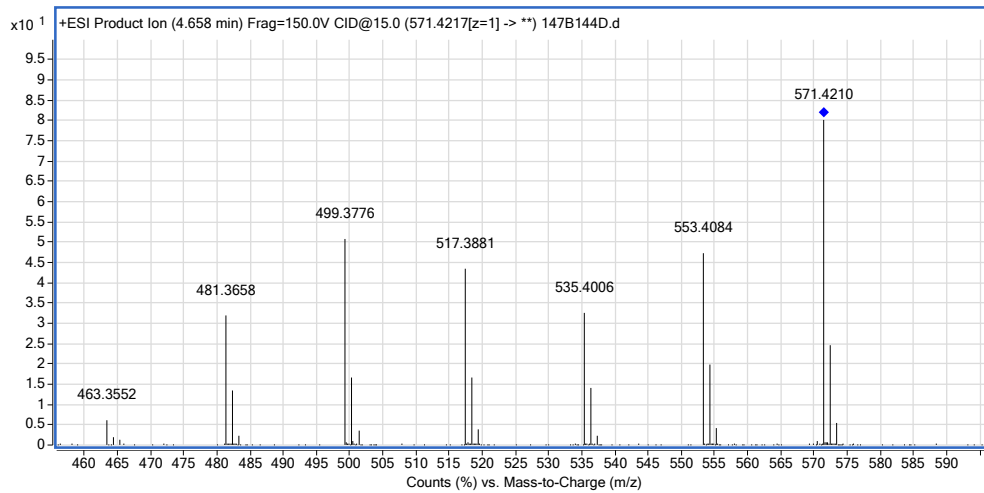
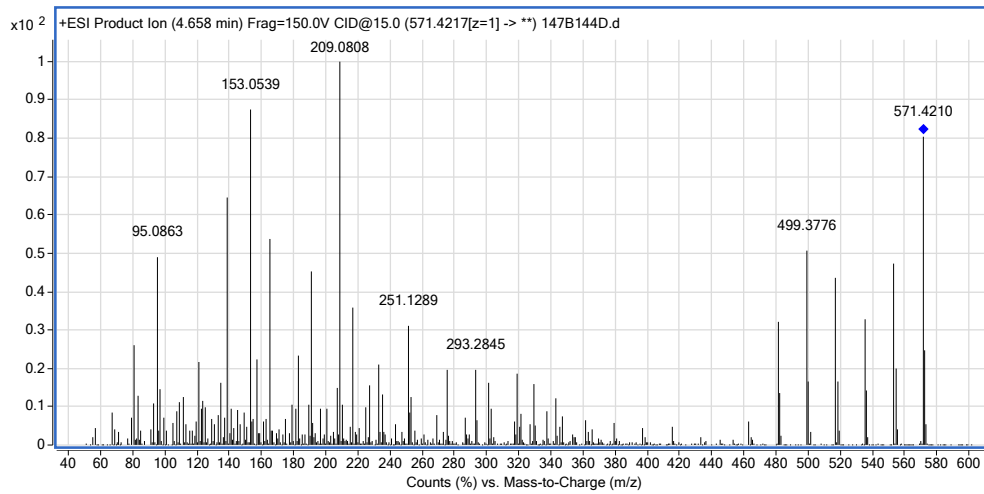


Figure S33. ^1H NMR spectrum of cryptocaryol G (**7**) in CD_3OD .

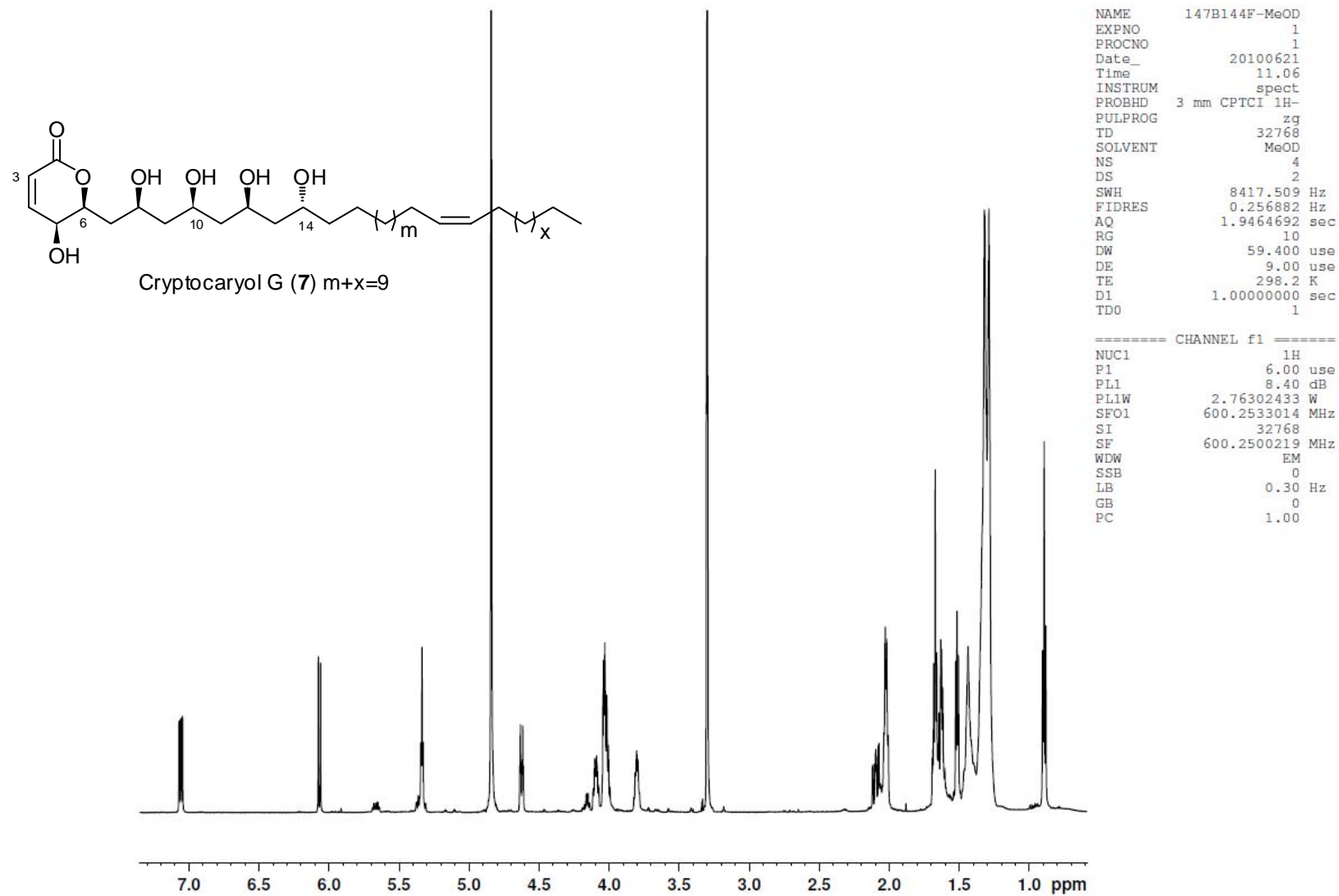


Figure S34. ^{13}C NMR spectrum of cryptocaryol G (**7**) in CD_3OD .

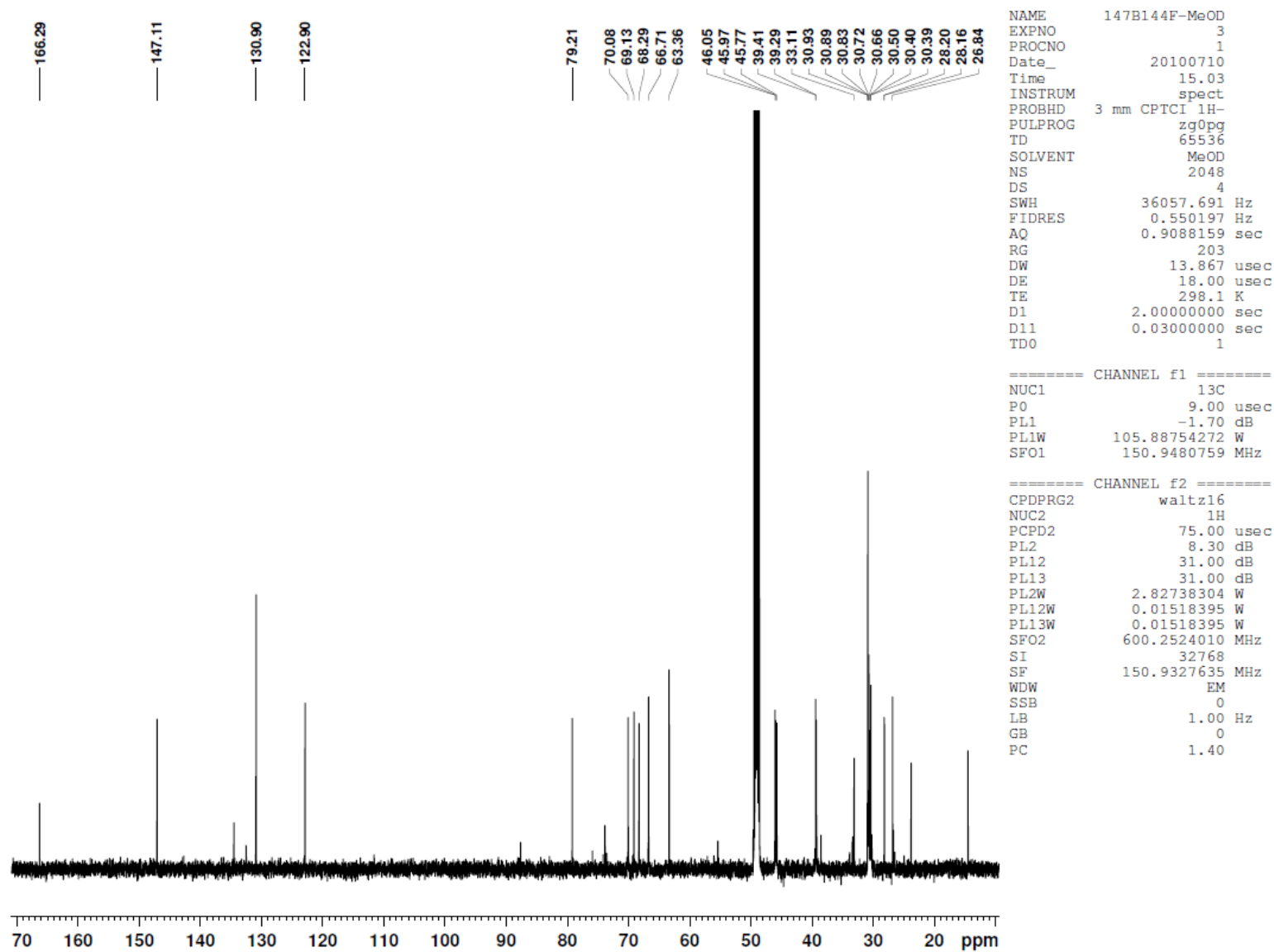


Figure S35. LRLCMS spectra of cryptocaryol G (7).

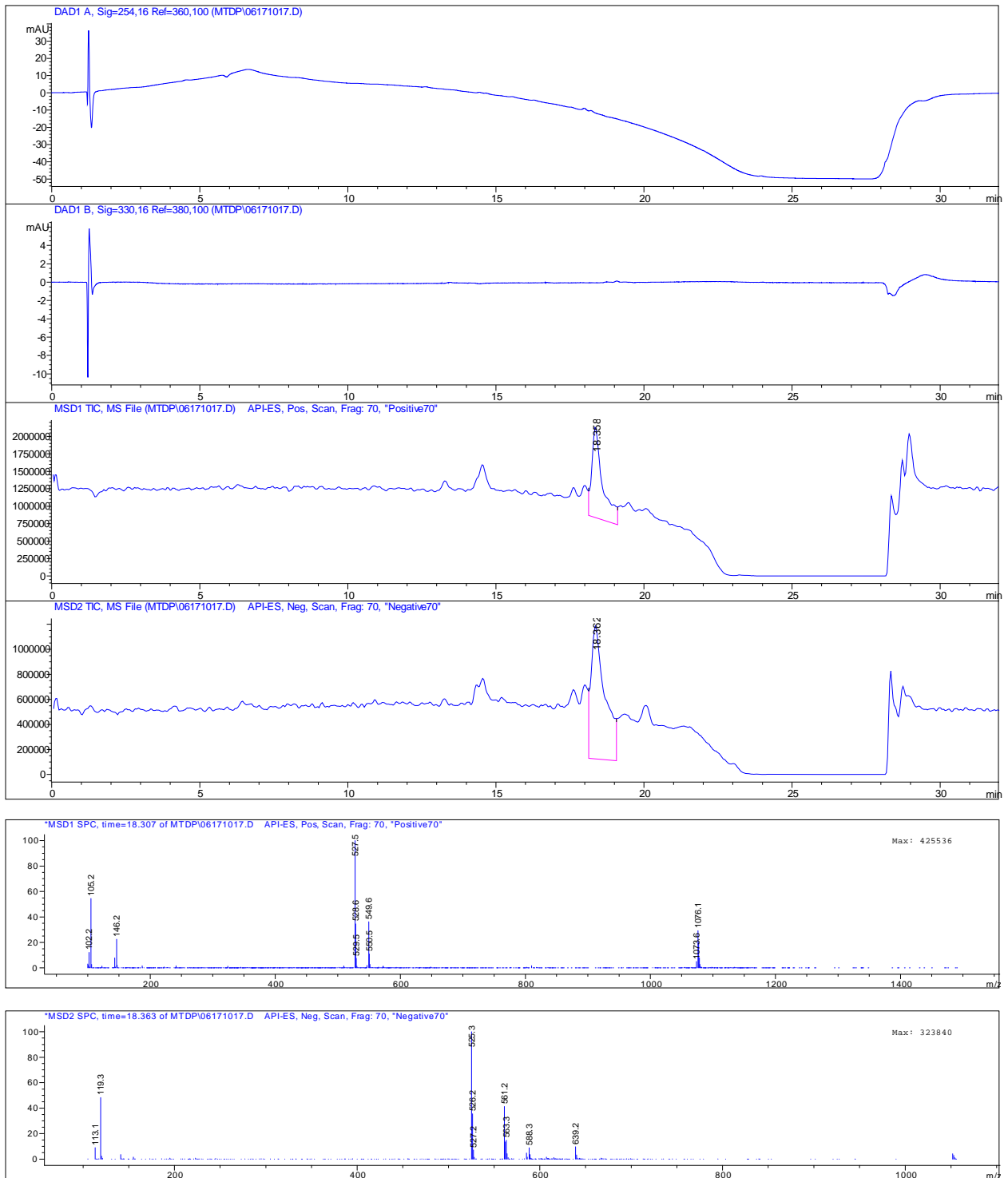


Figure S36. HRESIMS spectrum of cryptocaryol G (7).

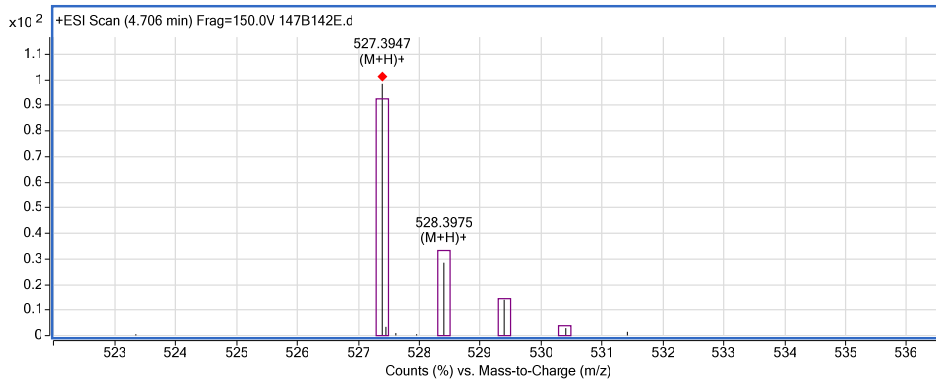


Figure S37. HRESIMS/MS spectra of cryptocaryol G (7).

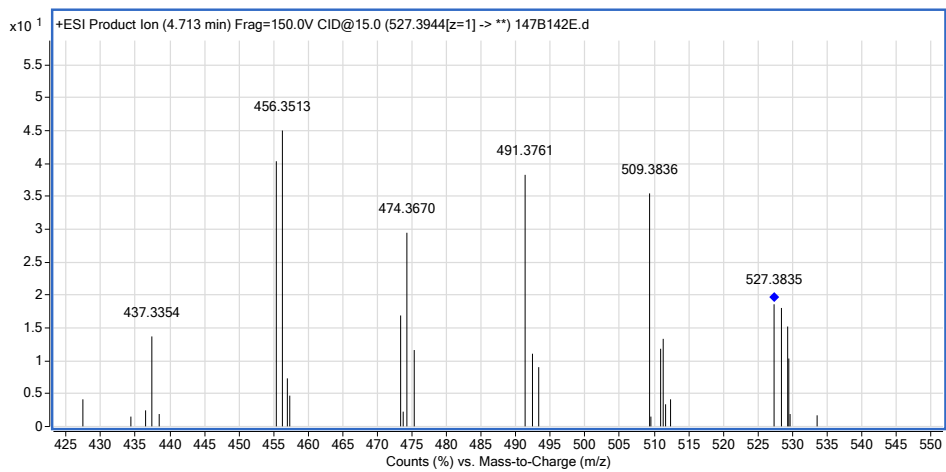
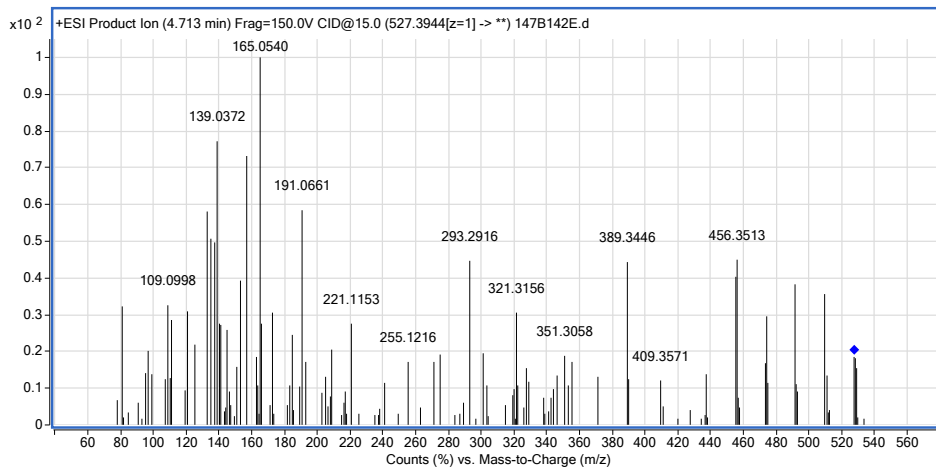


Figure S38. ^1H NMR spectrum of cryptocaryol H (**8**) in CD_3OD .

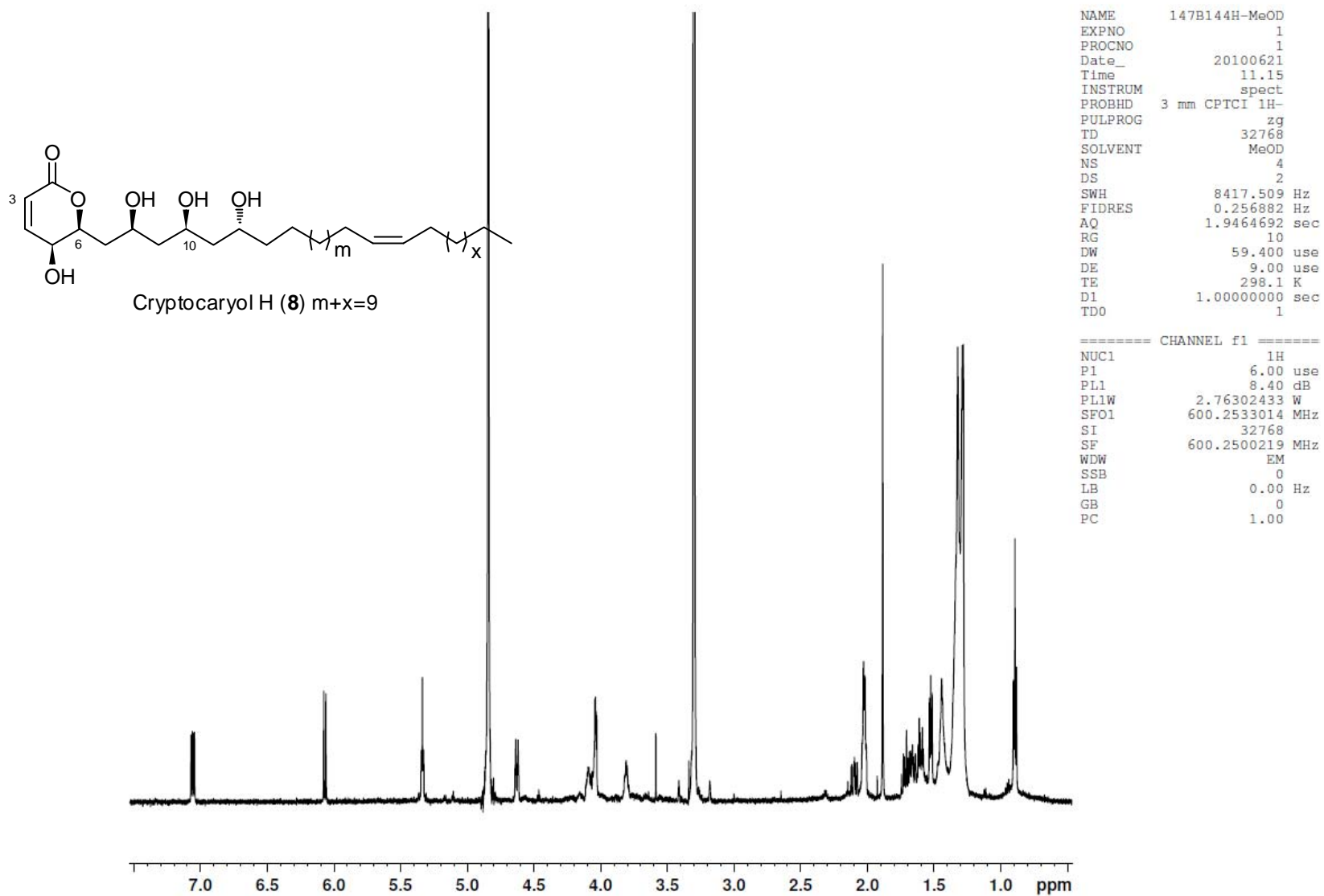


Figure S39. ^{13}C NMR spectrum of cryptocaryol H (**8**) in CD_3OD .

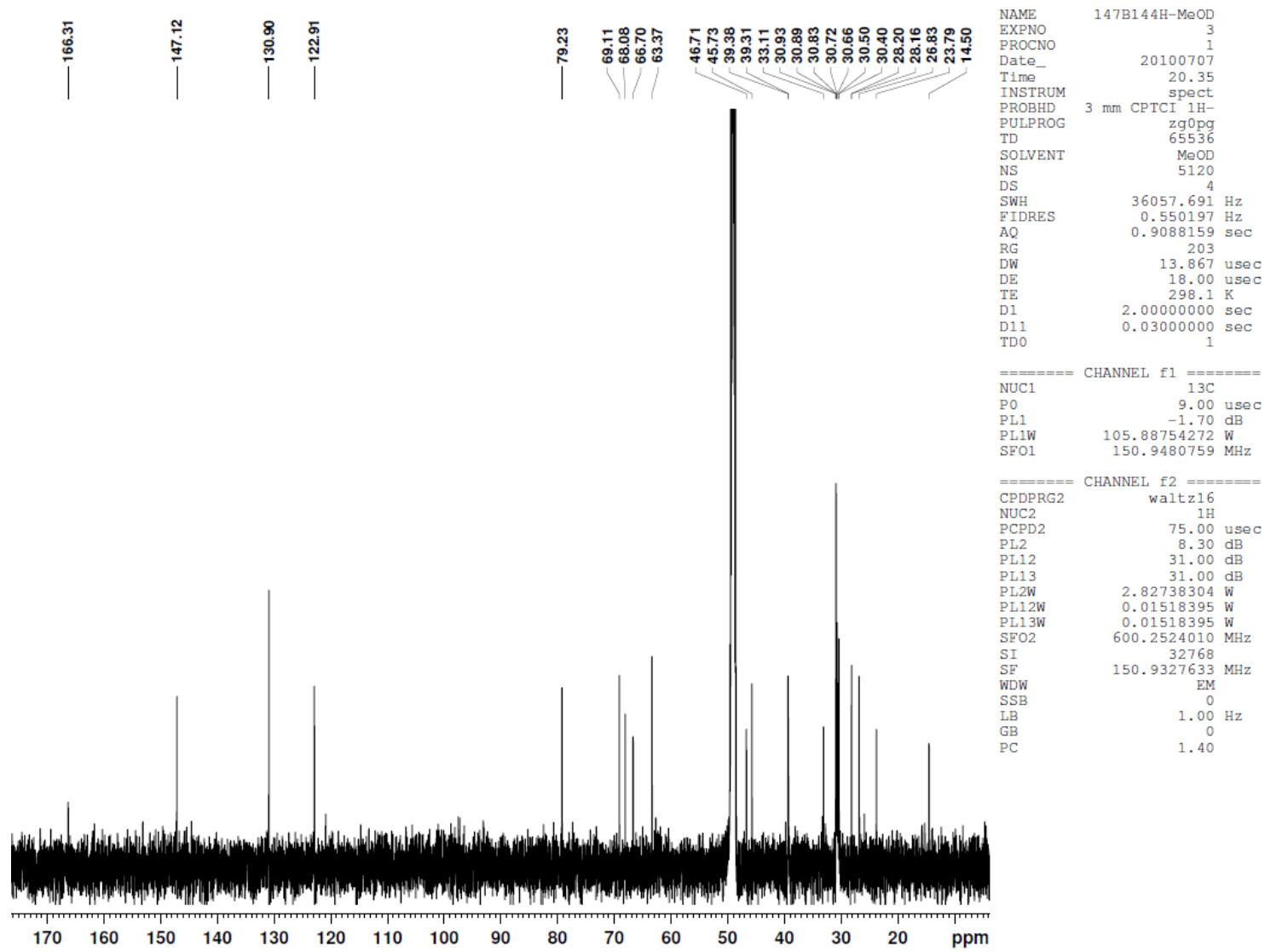


Figure S40. LRLCMS spectra of cryptocaryol H (8).

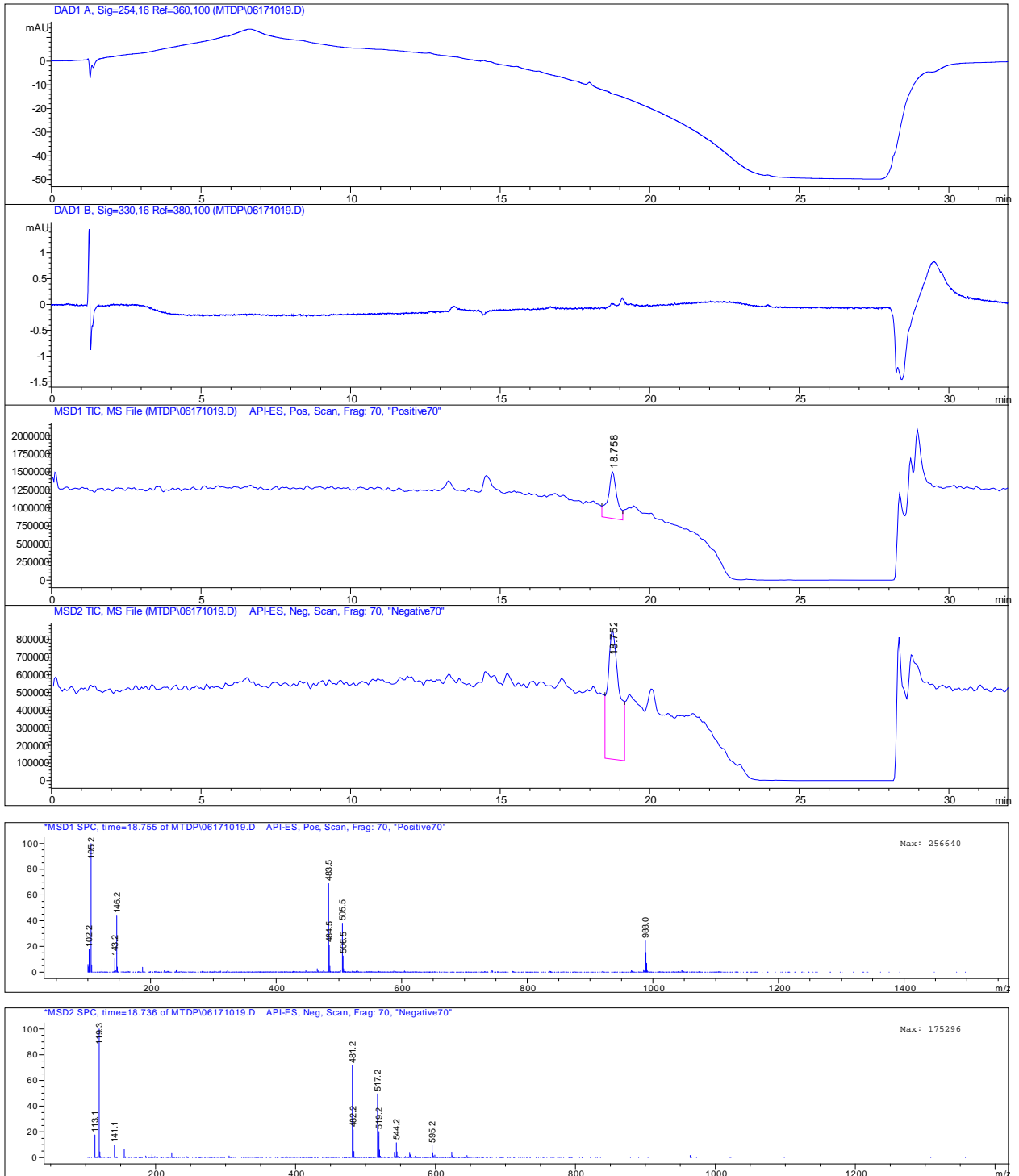


Figure S41. HRESIMS spectrum of cryptocaryol H (**8**).

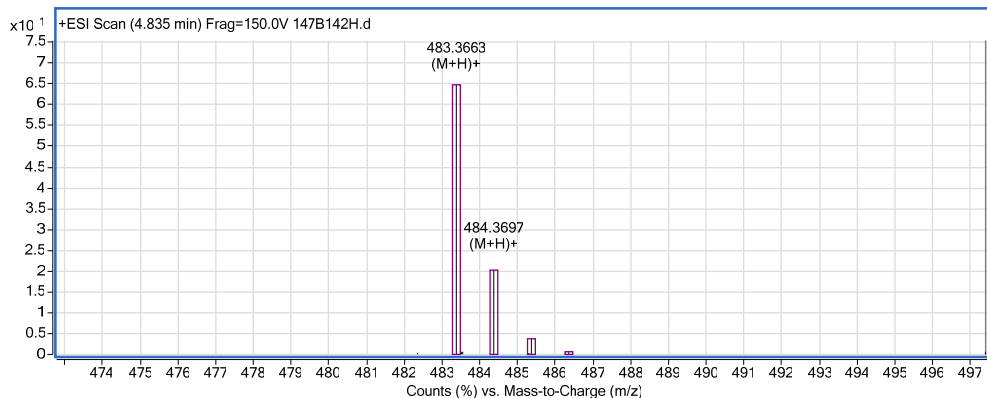


Figure S42. HRESIMS/MS spectra of cryptocaryol H (**8**).

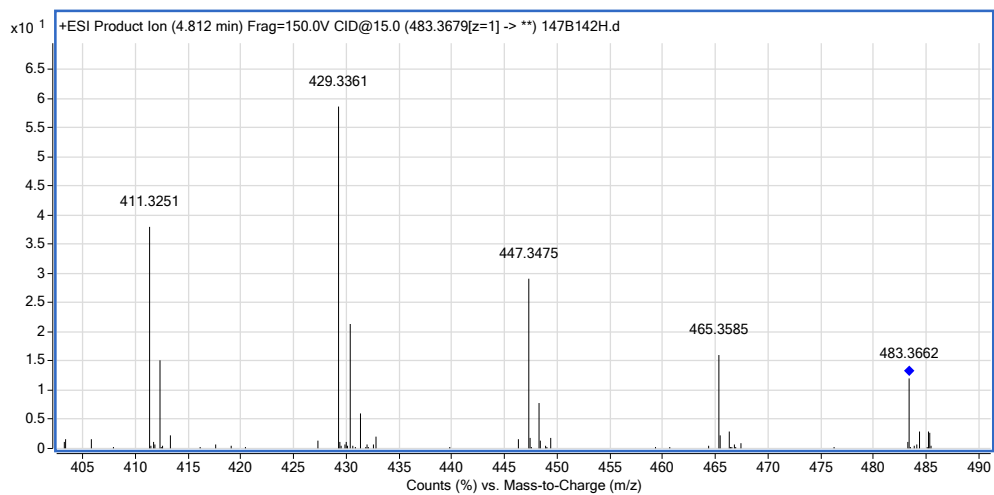
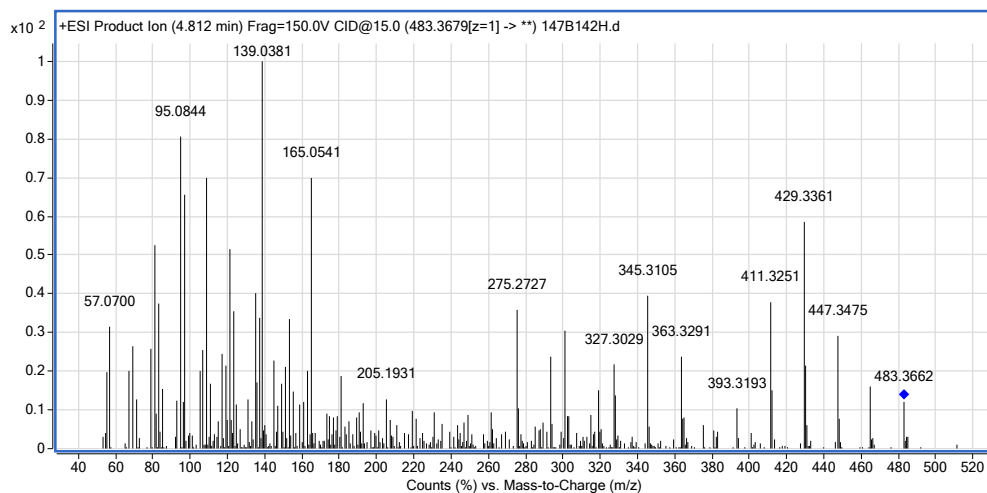


Table S1. ^{13}C NMR data for cryptocaryols A-H (1-8) in CD_3OD .

no.	1	2	3	4	5	no.	6	7	8
2	167.0	167.0	166.3	166.3	166.3	2	166.3	166.3	166.3
3	121.4	121.4	122.9	122.9	122.9	3	122.9	122.9	122.9
4	148.6	148.6	147.1	147.1	147.1	4	147.1	147.1	147.1
5	31.0	31.0	63.4	63.4	63.4	5	63.4	63.4	63.4
6	76.6	76.6	79.2	79.2	79.2	6	79.2	79.2	79.2
7	43.9	43.9	39.4	39.5	39.4	7	39.4	39.4	39.3
8	66.6	66.6	66.7	66.7	66.7	8	66.7	66.7	66.7
9	46.0	45.8	46.1	46.1	46.1	9	45.3	46.1	46.7
10	69.9	69.87	70.0	70.0	70.1	10	70.0	70.1	68.1
11	45.3	45.3	46.0	45.3	46.0	11	46.0	46.0	45.7
12	70.2	69.93	70.2	70.0	68.3	12	70.2	68.3	69.1
13	45.9	45.9	45.8	45.8	45.8	13	46.1	45.8	39.4
14	68.3	67.5	68.3	67.5	69.1	14	68.3	69.1	26.8
15	45.8	43.3	45.3	43.3	39.3	15	45.8	39.3	
16	69.1	72.9	69.1	72.9	26.8	16	69.1	26.8	
17	39.3	36.0	39.3	36.0		17	39.3		
18	26.8	26.4	26.8	26.4		18	26.8		
$(\underline{\text{C}}\text{H}_2)_m$	30.5-31.0	30.5-31.0	30.5-30.8	30.5-30.8	30.5-30.9	$(\underline{\text{C}}\text{H}_2)_m$	30.4-31.0	30.4-30.9	30.4-30.9
$(\text{CH}_2)_m\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_3$	33.2	33.1	33.2	33.1	33.1	$\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}=\underline{\text{C}}\text{H}\underline{\text{C}}\text{H}_2$	28.2	28.2	28.2
$(\text{CH}_2)_m\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_3$	23.8	23.8	23.8	23.8	23.8	$\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}=\underline{\text{C}}\text{H}\underline{\text{C}}\text{H}_2$	130.9	130.9	130.9
$(\text{CH}_2)_m\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_3$	14.5	14.5	14.5	14.5	14.5	$(\underline{\text{C}}\text{H}_2)_x$	30.4-31.0	30.4-30.9	30.4-30.9
$\text{O}\underline{\text{C}}\text{O}\underline{\text{C}}\text{H}_3$		173.2		173.2		$(\text{CH}_2)_x\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_3$	33.1	33.1	33.1
$\text{O}\underline{\text{C}}\text{O}\underline{\text{C}}\text{H}_3$		21.2		21.2		$(\text{CH}_2)_x\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_3$	23.8	23.8	23.8
						$(\text{CH}_2)_x\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_2\underline{\text{C}}\text{H}_3$	14.5	14.5	14.5

