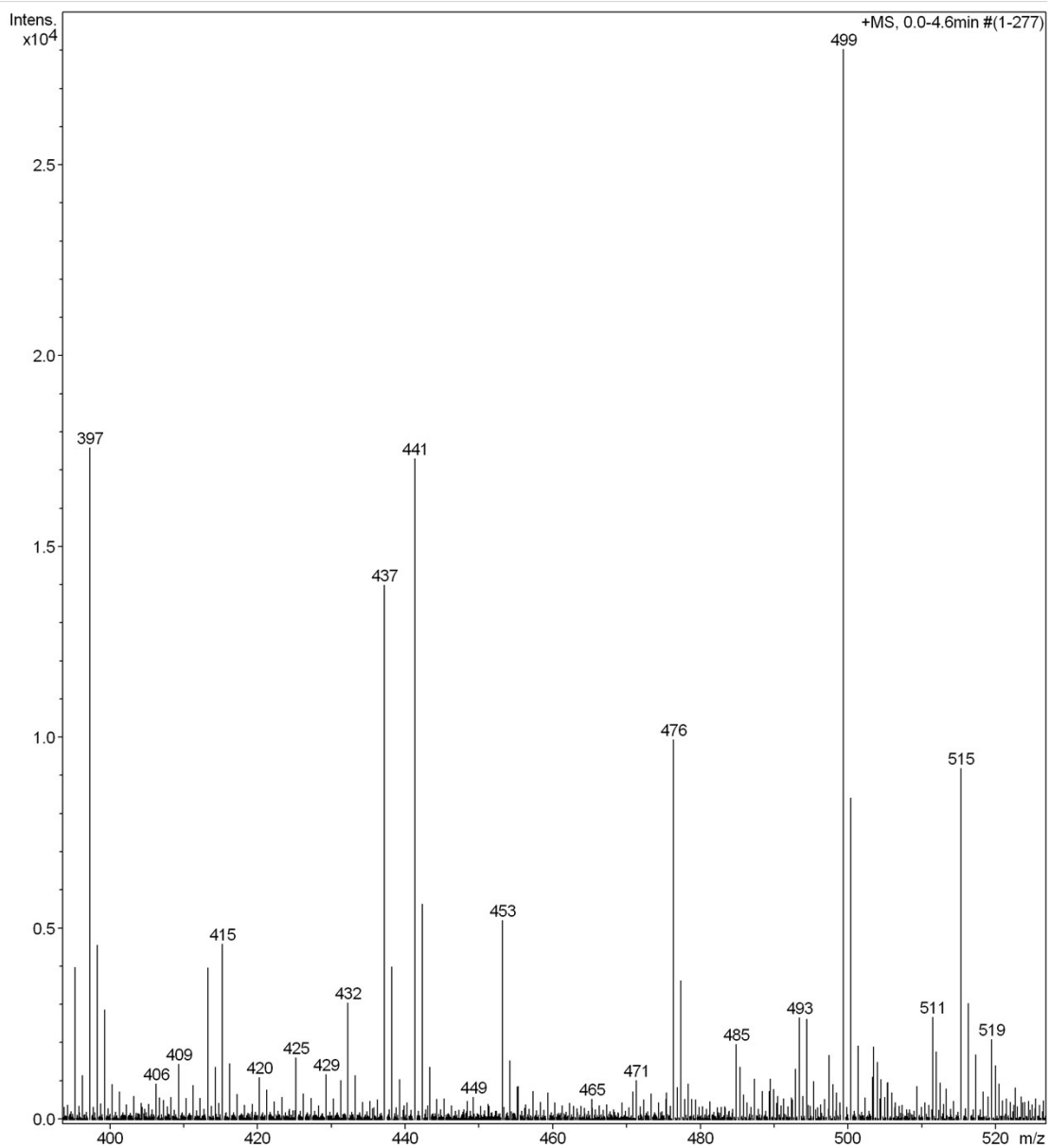


Supporting information

S1. ESIMS spectrum of compound 1	2
S2. HRESIMS spectrum of compound 1	3
S3. IR spectrum of compound 1	3
S4. ¹ H NMR spectrum (600 MHz) of compound 1 in CDCl ₃	4
S5. ¹³ C NMR spectrum (150 MHz) of compound 1 in CDCl ₃	4
S6. HSQC spectrum of compound 1 in CDCl ₃	5
S7. HMBC spectrum of compound 1 in CDCl ₃	5
S8. ¹ H- ¹ H COSY spectrum of compound 1 in CDCl ₃	6
S9. NOESY spectrum of compound 1 in CDCl ₃	6
S10. ESIMS spectrum of compound 2	7
S11. HRESIMS spectrum of compound 2	8
S12. IR spectrum of compound 2	8
S13. ¹ H NMR spectrum (600 MHz) of compound 2 in CDCl ₃	9
S14. ¹³ C NMR spectrum (150 MHz) of compound 2 in CDCl ₃	9
S15. HSQC spectrum of compound 2 in CDCl ₃	10
S16. HMBC spectrum of compound 2 in CDCl ₃	10
S17. ¹ H- ¹ H COSY spectrum of compound 2 in CDCl ₃	11
S18. NOESY spectrum of compound 2 in CDCl ₃	11
S19. ESIMS spectrum of compound 3	12
S20. HRESIMS spectrum of compound 3	13
S21. IR spectrum of compound 3	13
S22. ¹ H NMR spectrum (600 MHz) of compound 3 in CDCl ₃	14
S23. ¹³ C NMR spectrum (150 MHz) of compound 3 in CDCl ₃	14
S24. HSQC spectrum of compound 3 in CDCl ₃	15
S25. HMBC spectrum of compound 3 in CDCl ₃	15
S26. ¹ H- ¹ H COSY spectrum of compound 3 in CDCl ₃	16
S27. NOESY spectrum of compound 3 in CDCl ₃	16
S28. HPLC chromatogram of four compounds 1–4	17

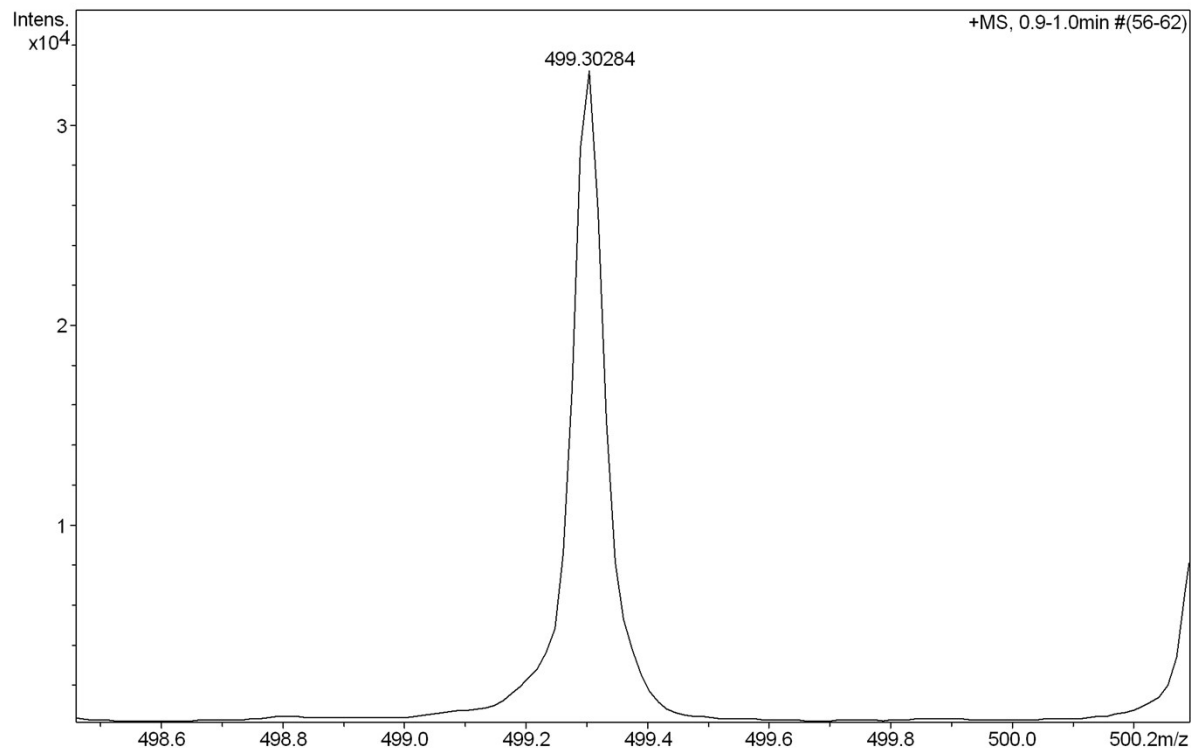
Method tune_low_pos_50-1000_Liao lab.m
Sample Name l8-6-7-10-1
Comment ESI Positive



S1. ESIMS spectrum of compound 1

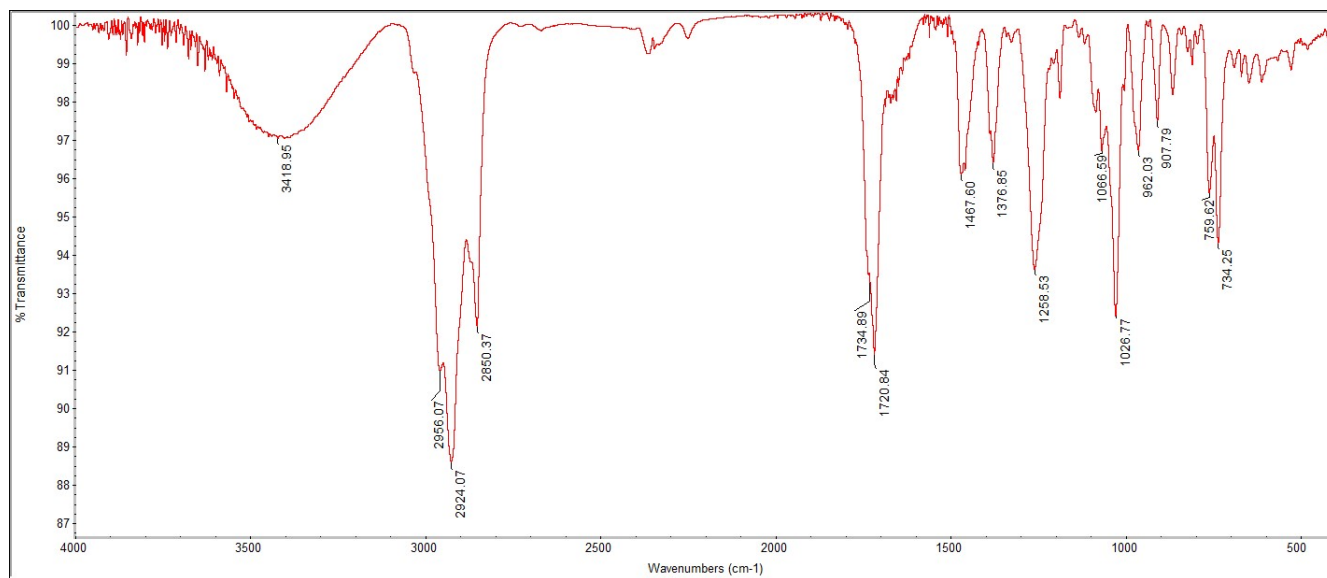
Method tune_low_pos_50-1000_Liao lab.m
Sample Name l8-6-7-10-1
Comment ESI Positive

Operator: YU HSIAO-CHING
Instrument: BRUKER microTOF-Q

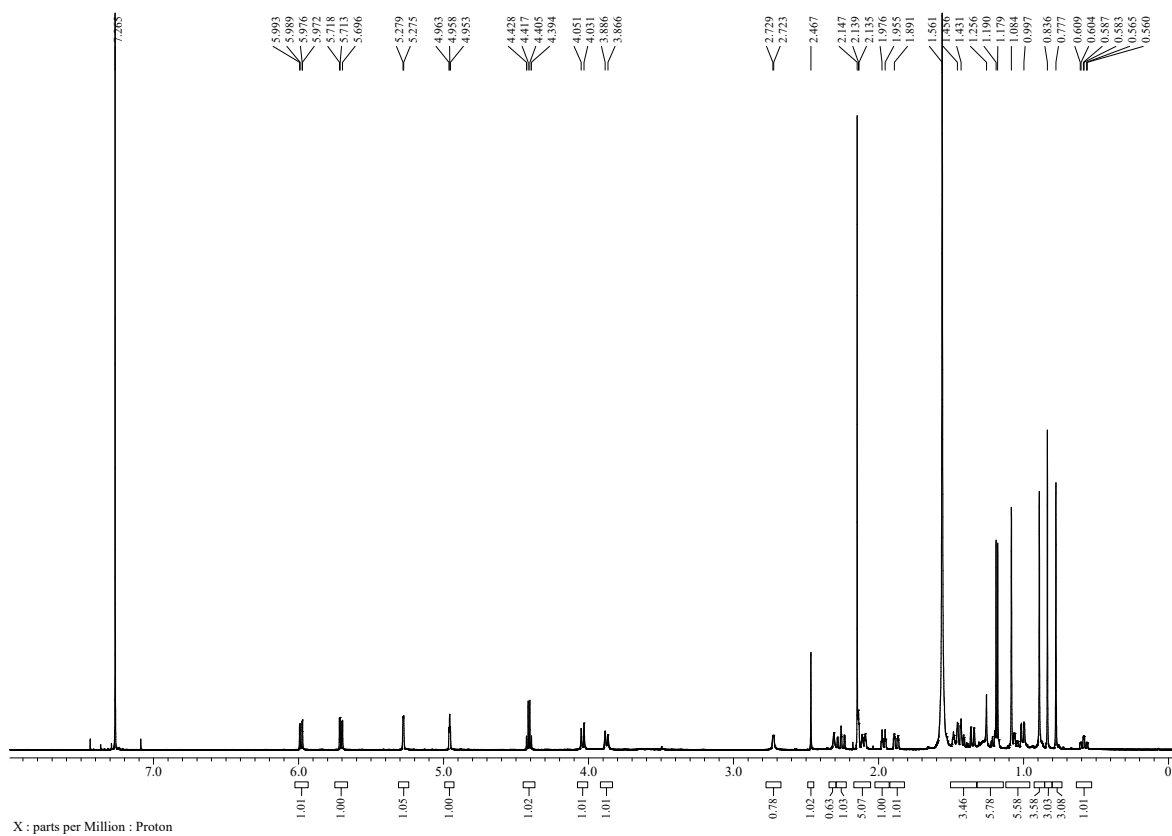


Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rdb	e ⁻ Conf	N-Rule
499.30284	1	C 28 H 44 Na O 6	100.00	499.30301	0.17	0.34	9.7	6.5	even	ok

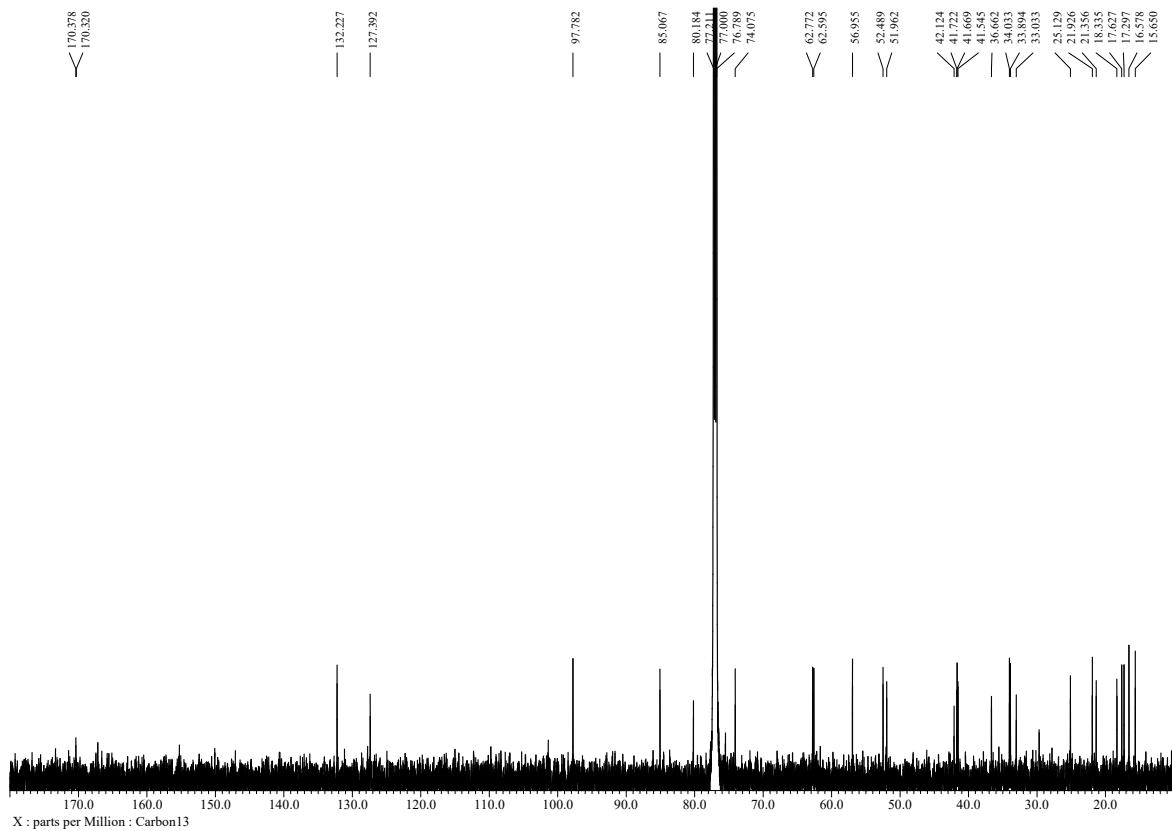
S2. HRESIMS spectrum of compound **1**



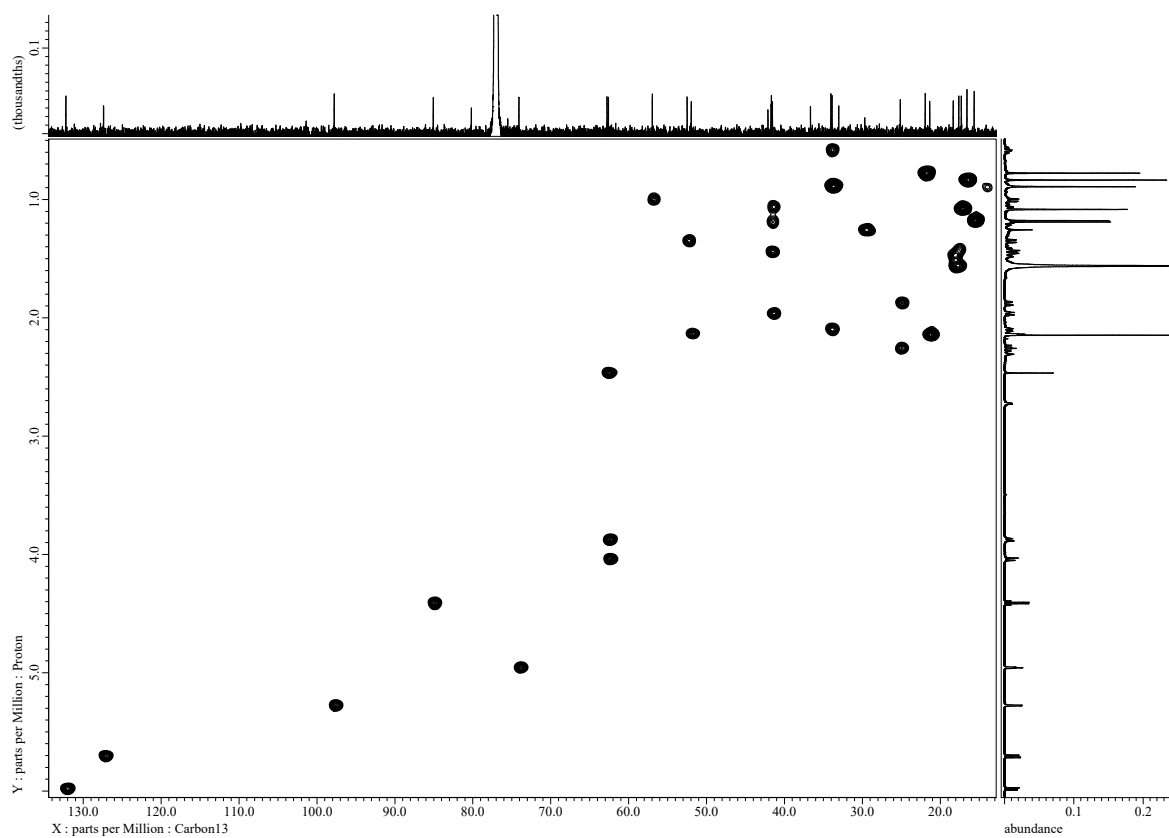
S3. IR spectrum of compound **1**



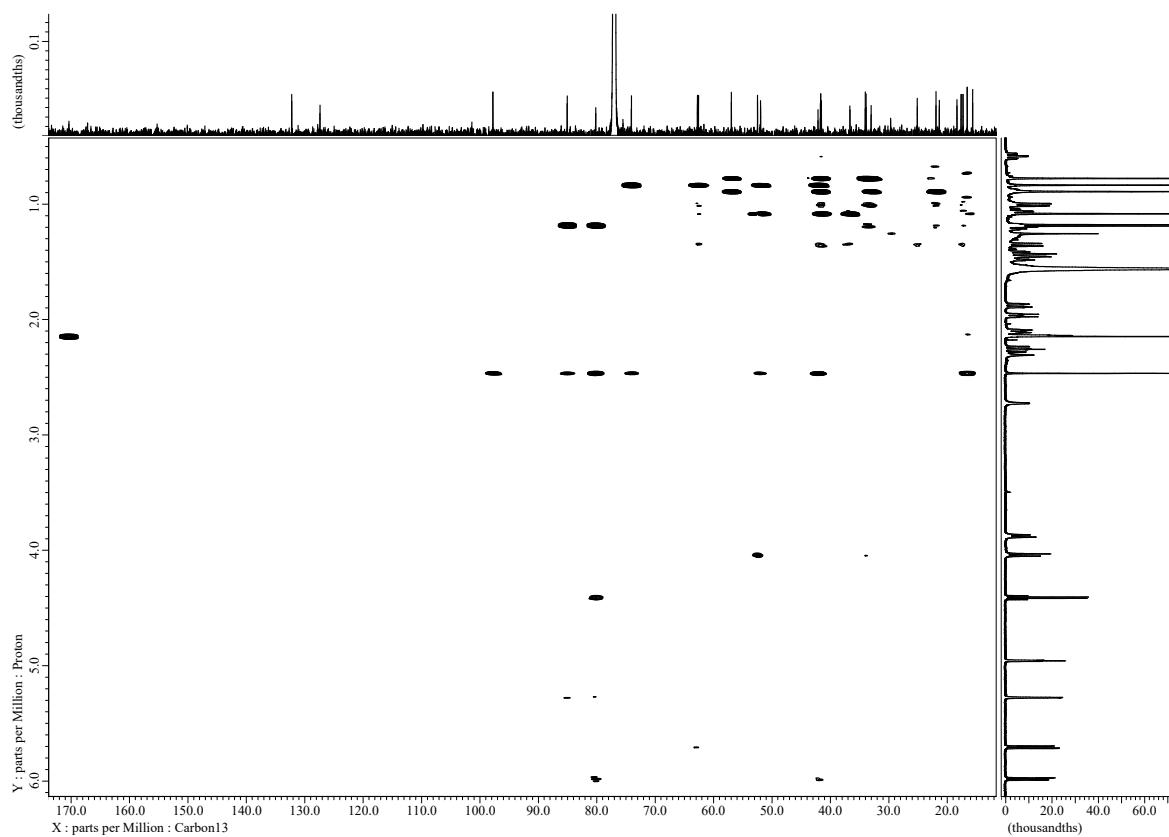
S4. ¹H NMR spectrum (600 MHz) of compound **1** in CDCl₃



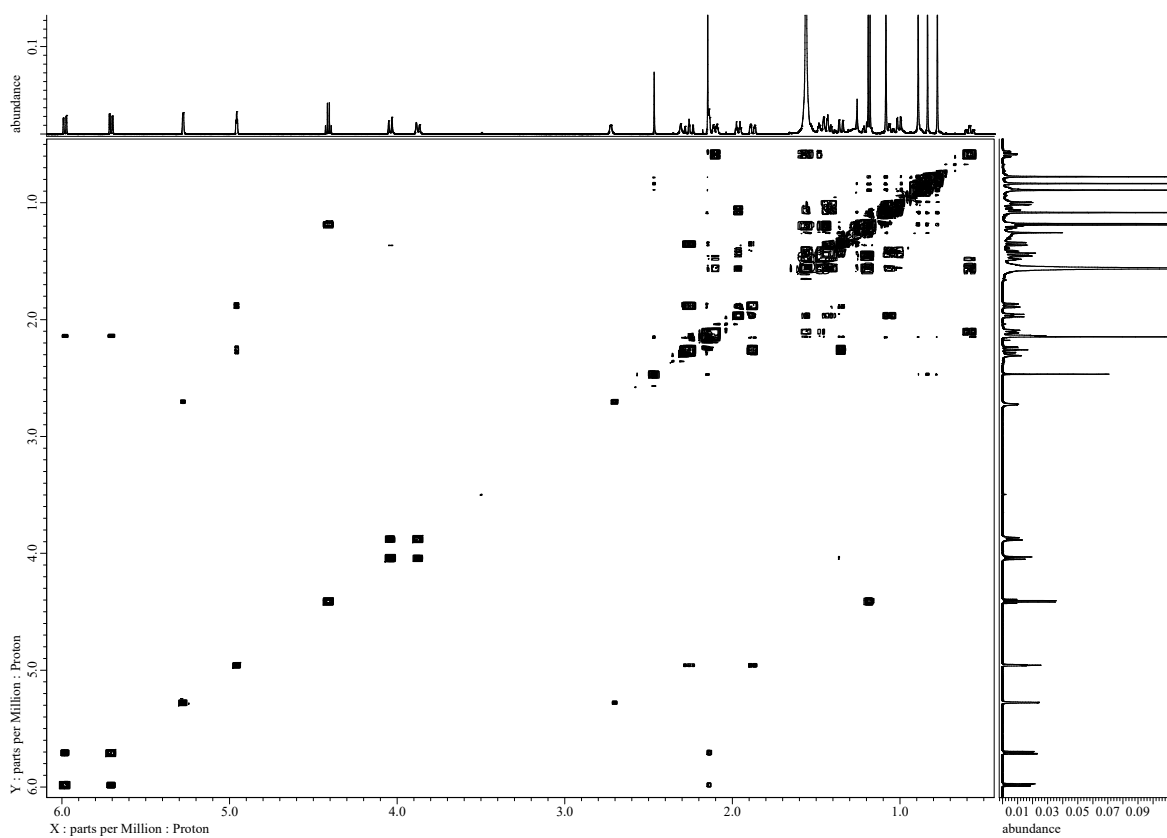
S5. ¹³C NMR spectrum (150 MHz) of compound **1** in CDCl₃



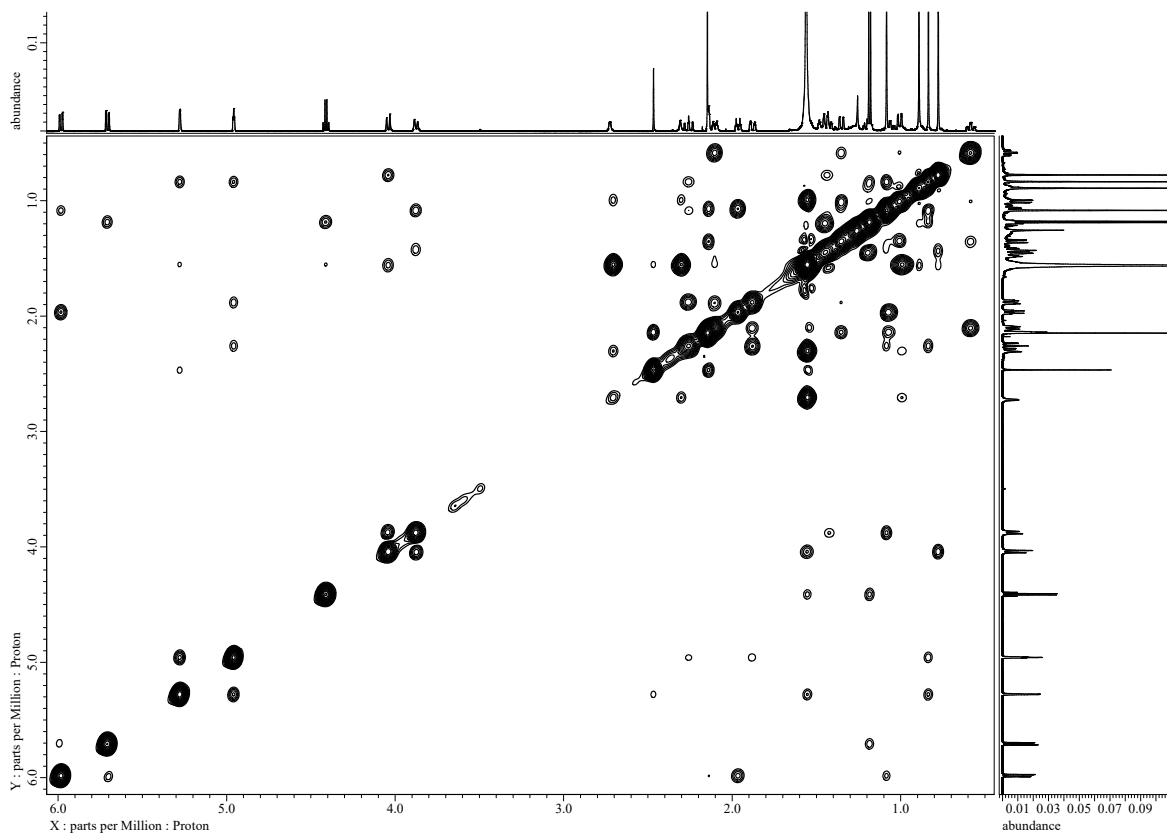
S6. HSQC spectrum of compound **1** in CDCl_3



S7. HMBC spectrum of compound **1** in CDCl_3

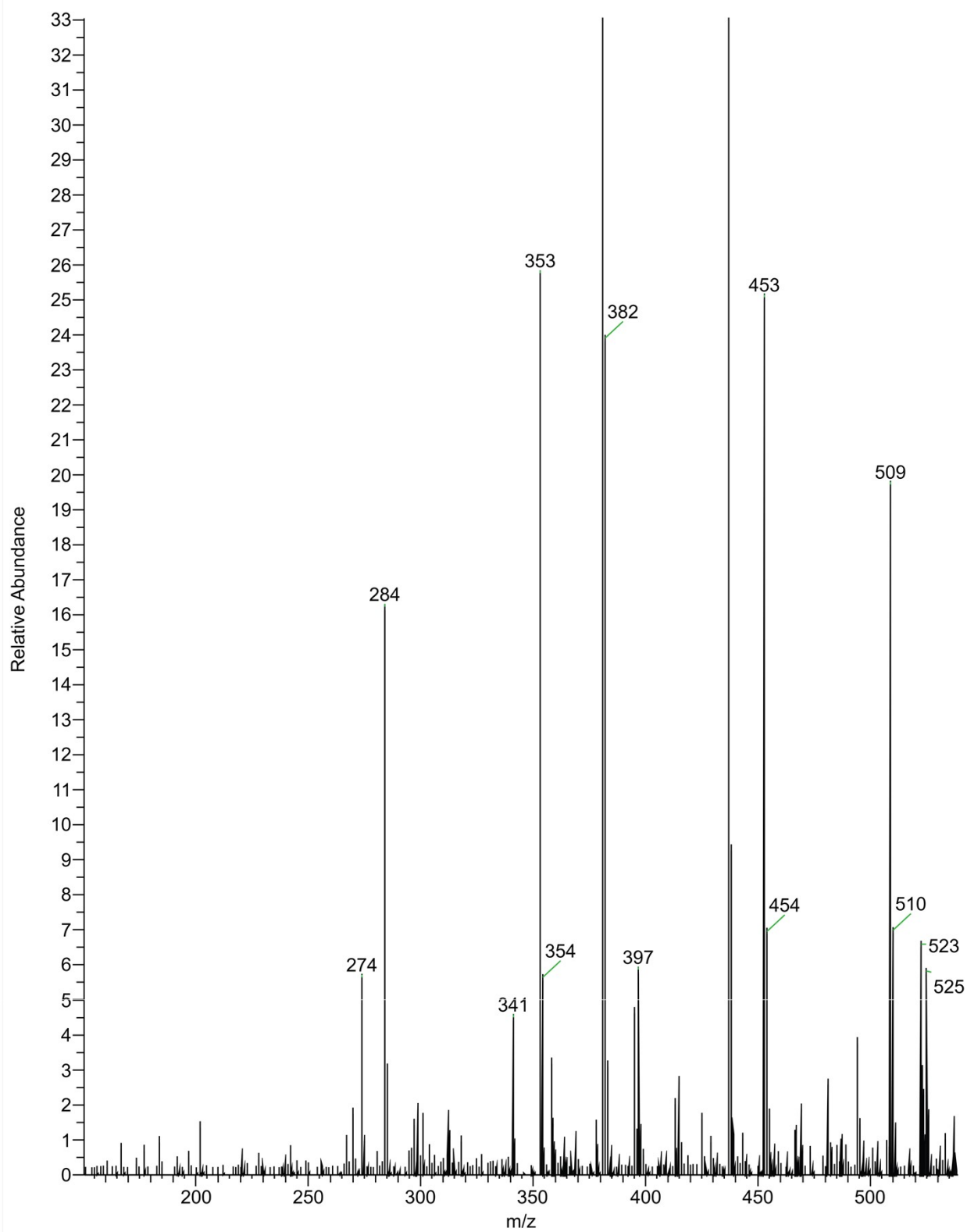


S8. ^1H - ^1H COSY spectrum of compound **1** in CDCl_3



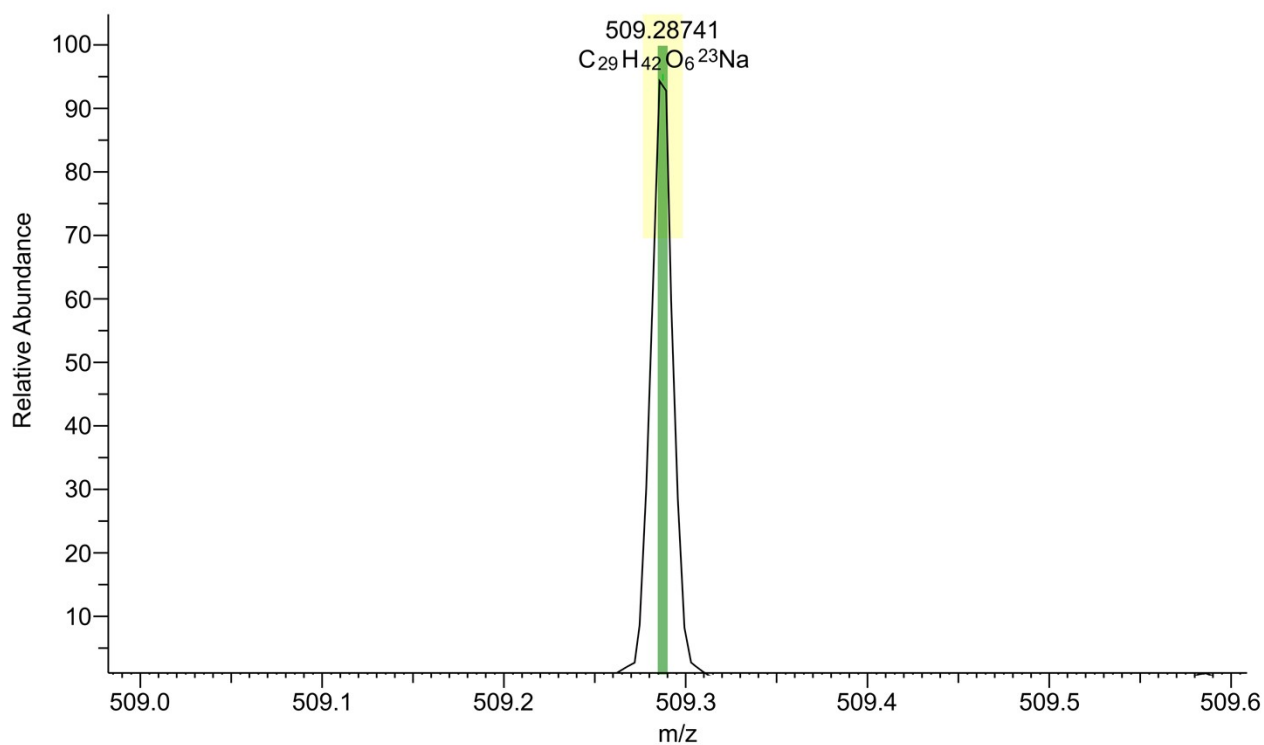
S9. NOESY spectrum of compound **1** in CDCl_3

I7-10-13 #18 RT: 0.12 AV: 1 NL: 4.35E7
T: FTMS + p ESI sid=35.00 Full ms [100.0000-1200.0000]



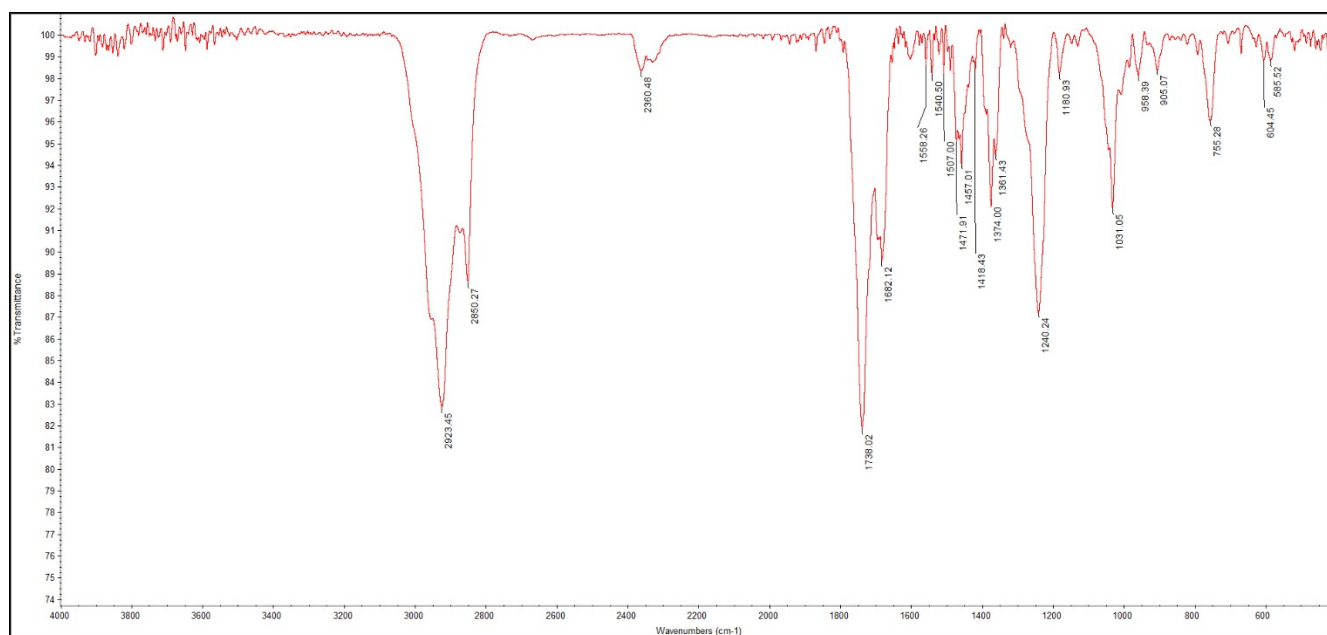
S10. ESIMS spectrum of compound 2

I7-10-13_20230307025108 #17 RT: 0.12 AV: 1 NL: 7.99E6
T: FTMS + p ESI sid=35.00 Full ms [100.0000-1200.0000]

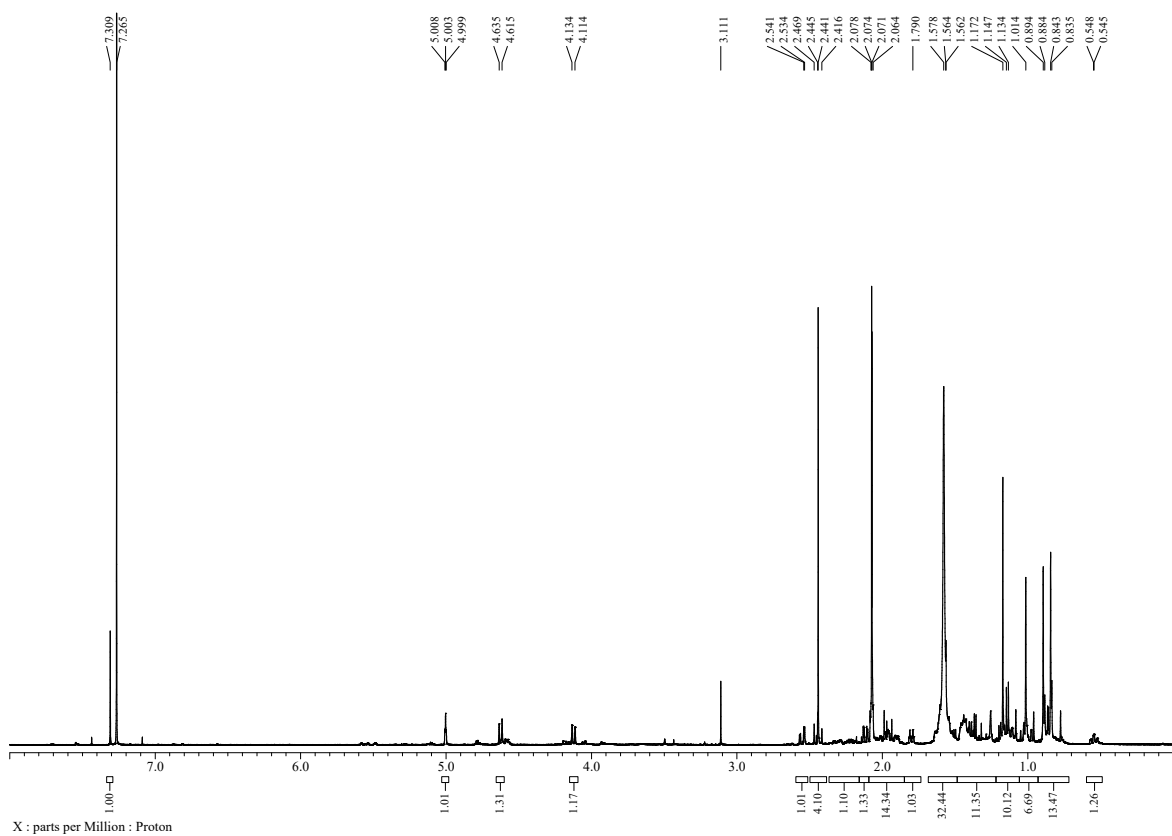


Peak Mass	Display Formula	S Fit	RDB	Delta [ppm]	Theo. mass	Pattern Cov. [%]	MSMS Matched...
509.28741	$C_{29}H_{42}O_6^{23}Na$	48.79058928817 56	8.50	0.11	509.28736	99.39	(Collection)

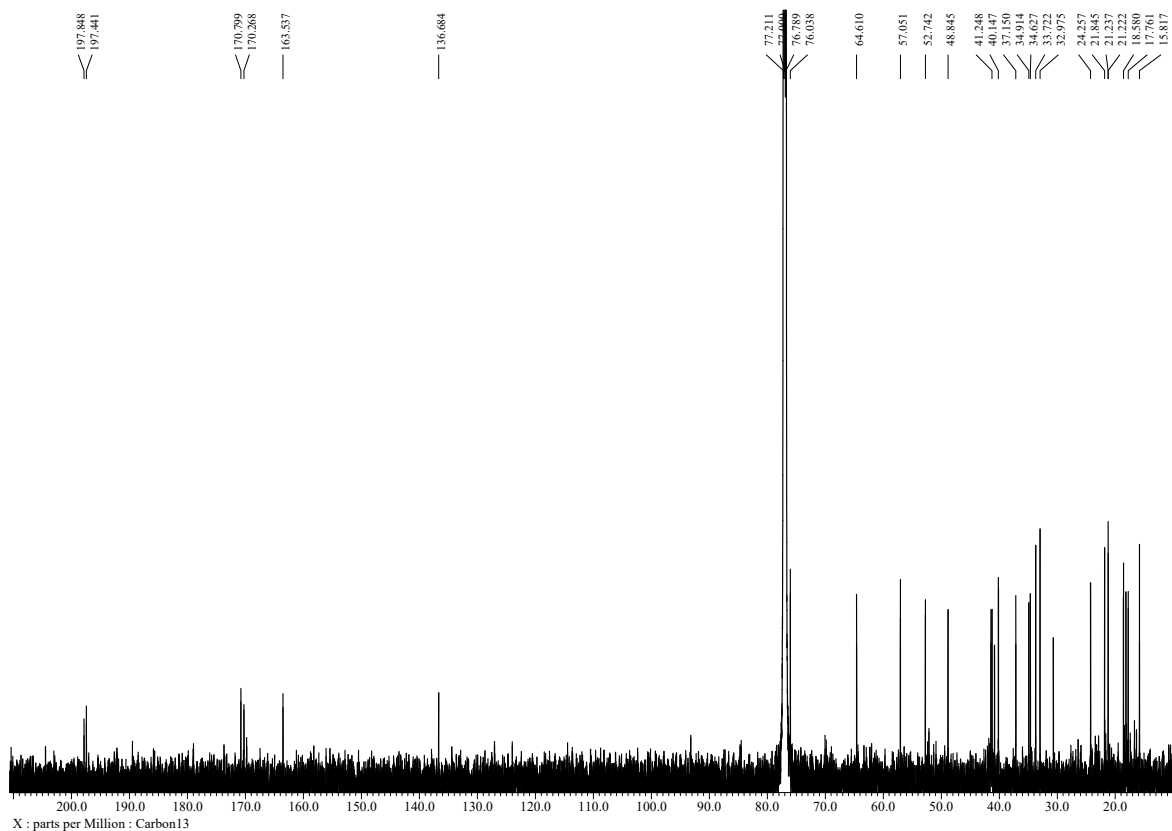
S11. HRESIMS spectrum of compound 2



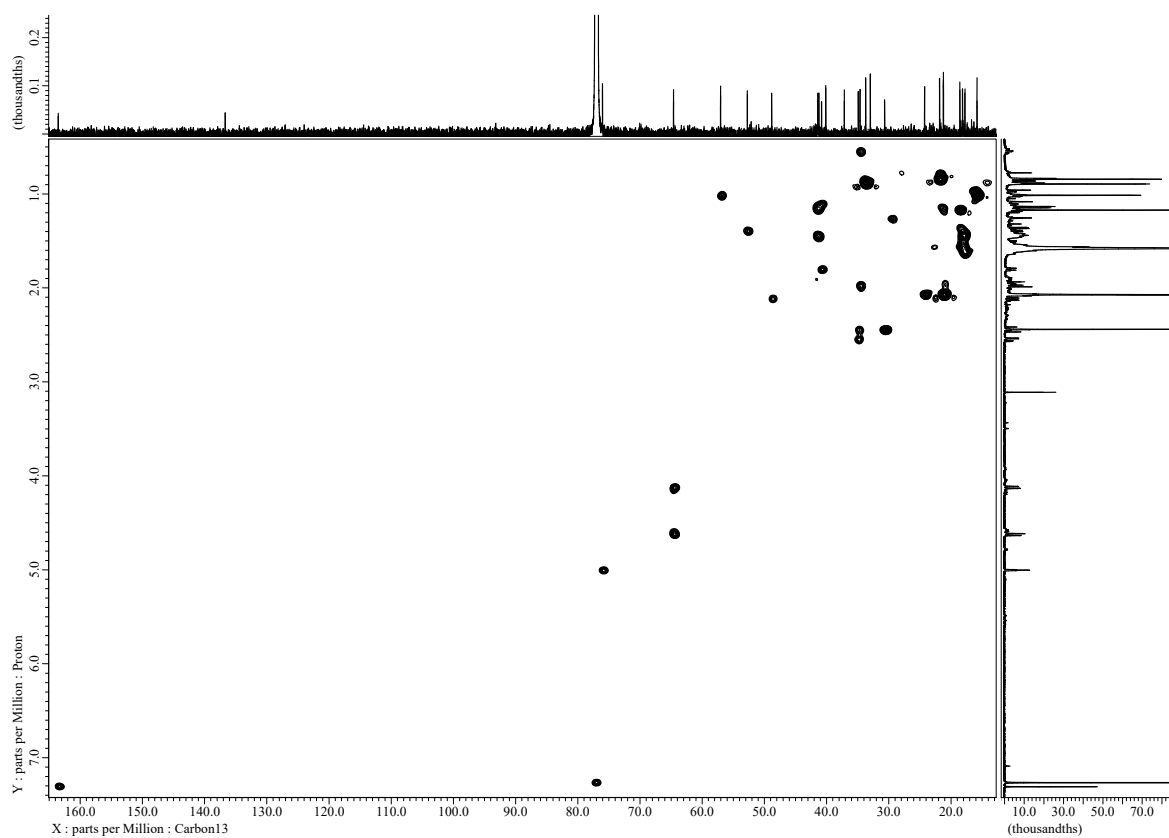
S12. IR spectrum of compound 2



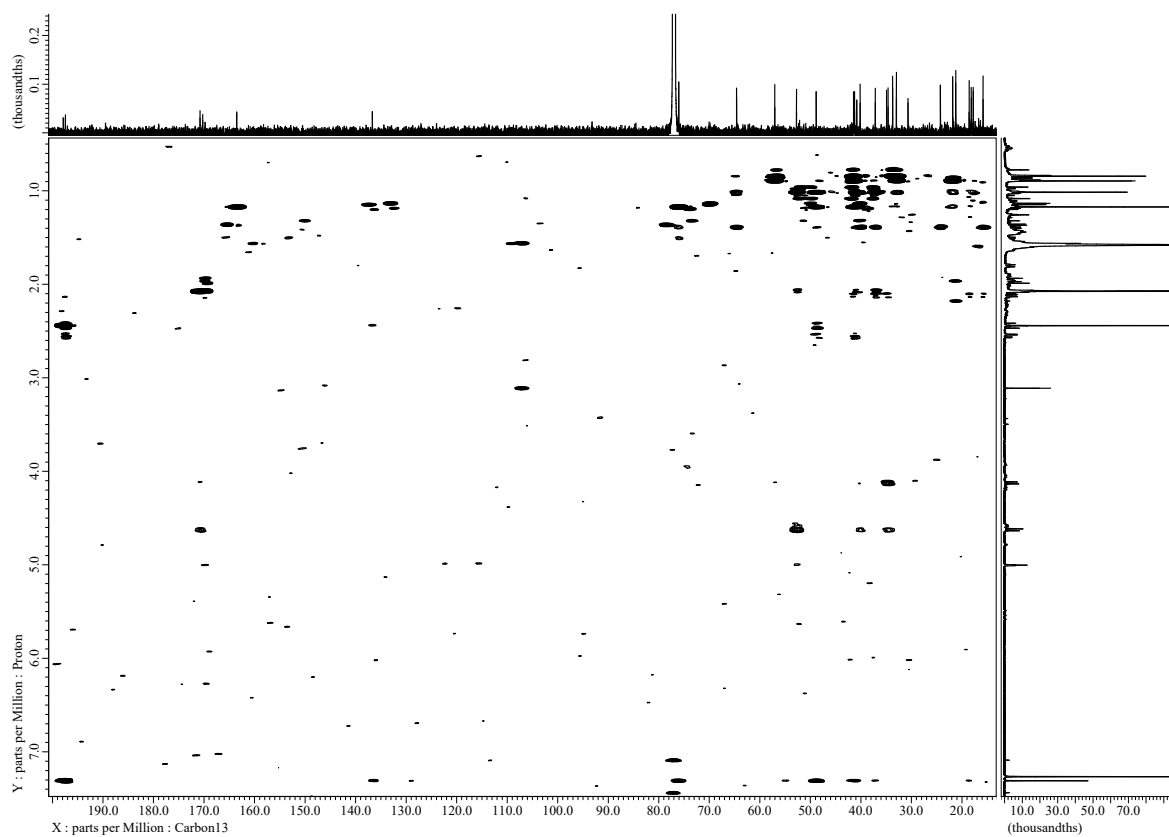
S13. ^1H NMR spectrum (600 MHz) of compound **2** in CDCl_3



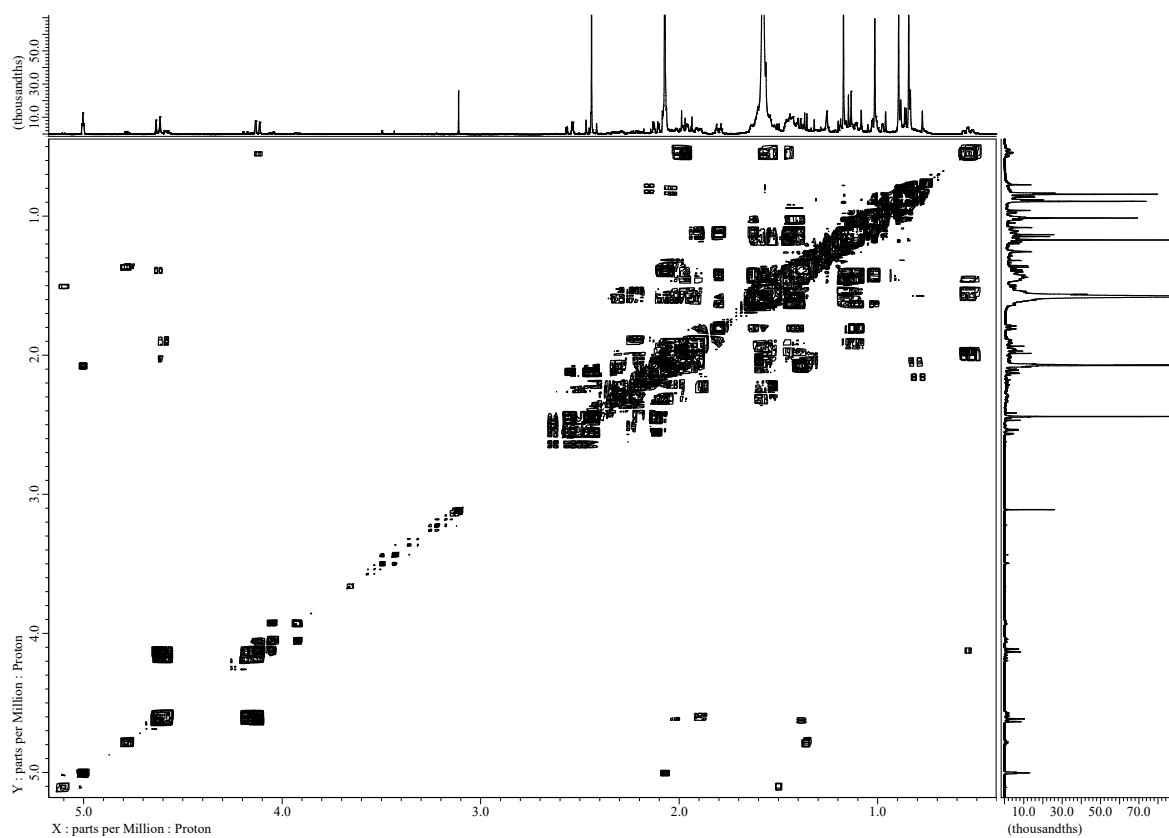
S14. ^{13}C NMR spectrum (150 MHz) of compound **2** in CDCl_3



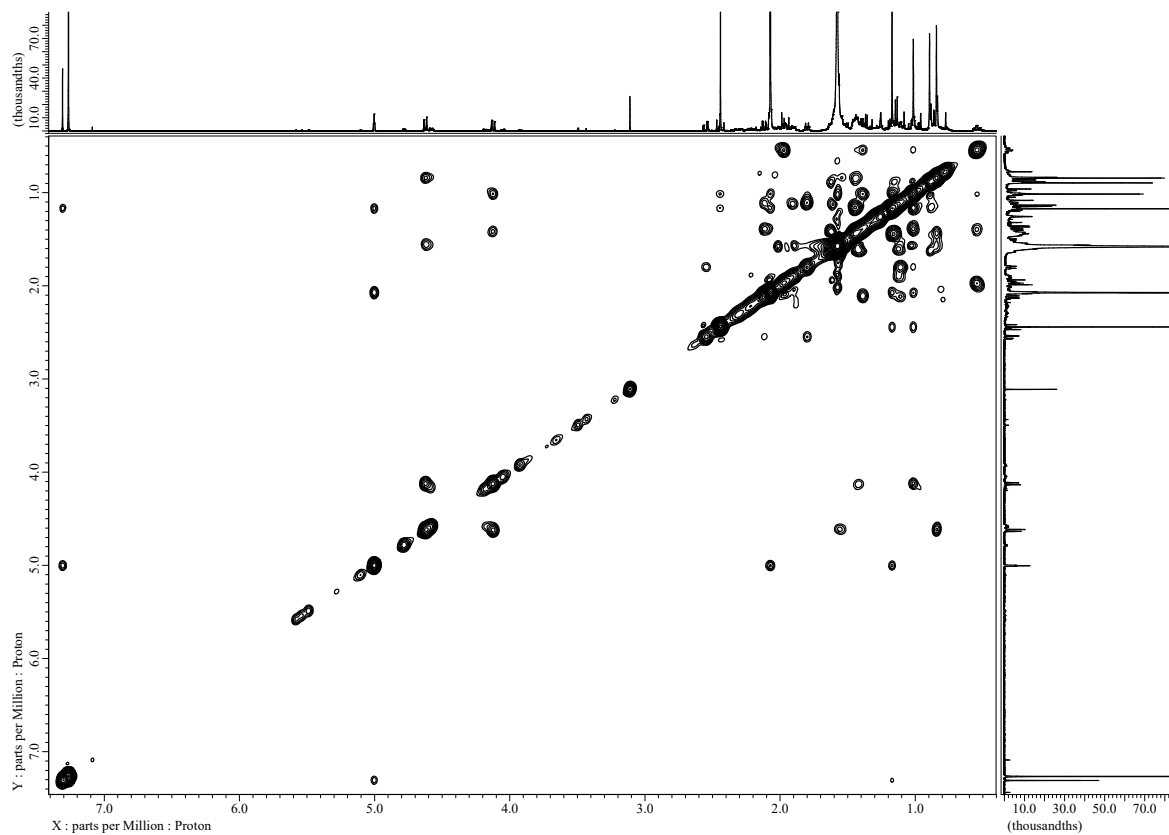
S15. HSQC spectrum of compound **2** in CDCl₃



S16. HMBC spectrum of compound **2** in CDCl₃

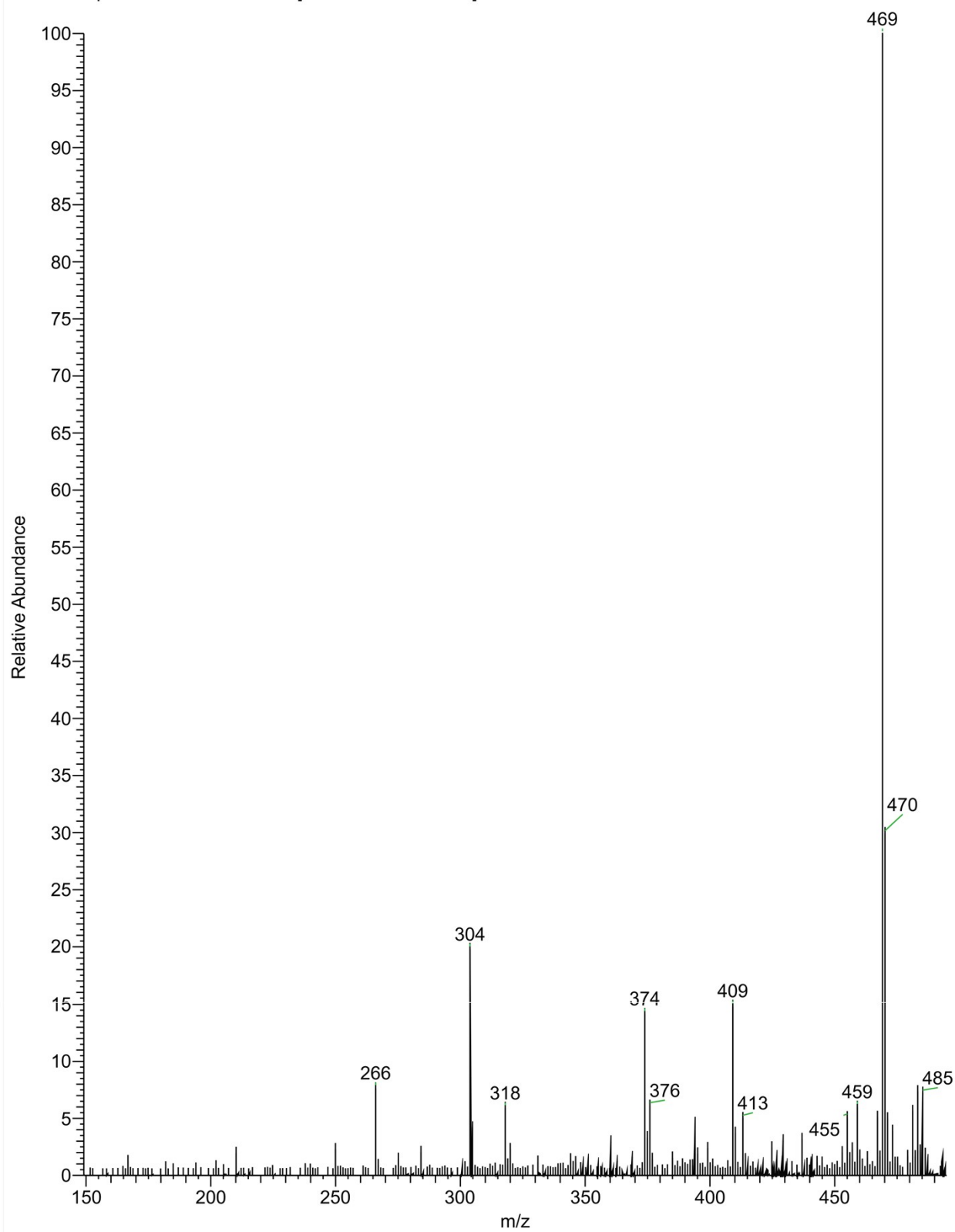


S17. ^1H - ^1H COSY spectrum of compound **2** in CDCl_3



S18. NOESY spectrum of compound **2** in CDCl_3

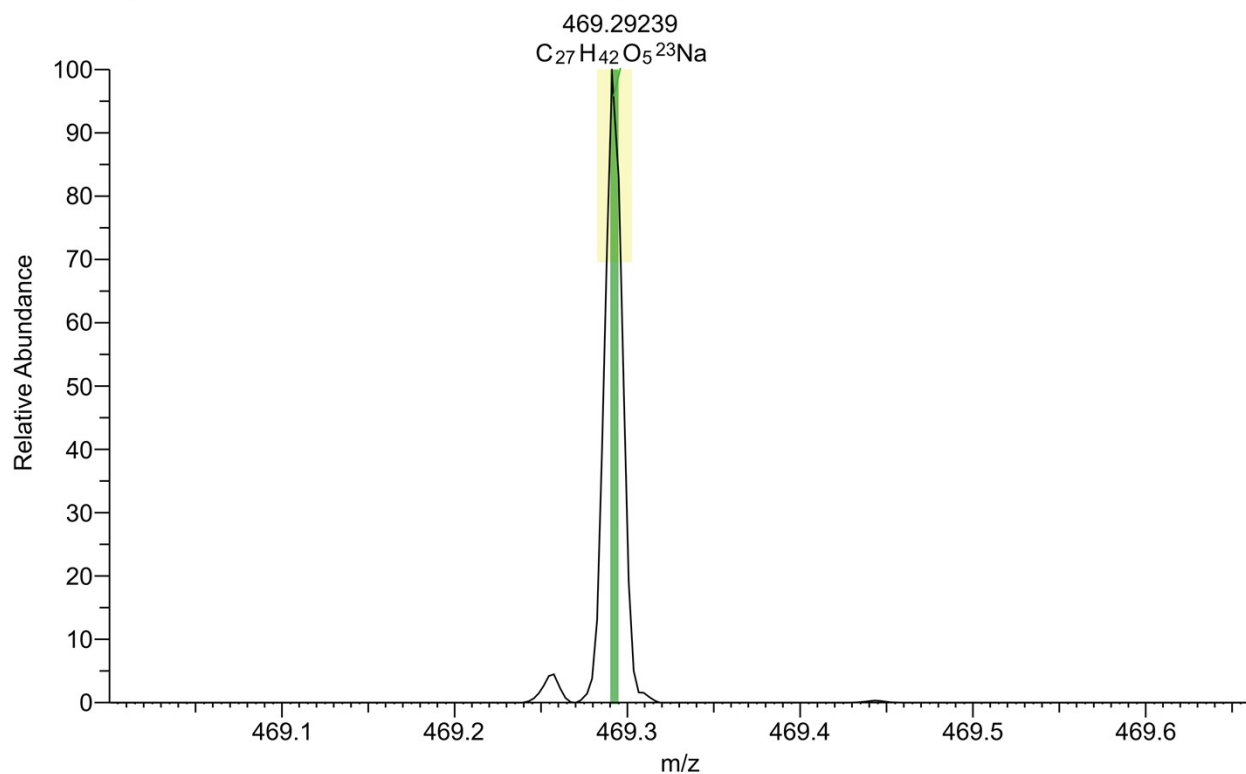
I7-10-5 #17 RT: 0.12 AV: 1 NL: 1.56E7
T: FTMS + p ESI sid=35.00 Full ms [100.0000-1000.0000]



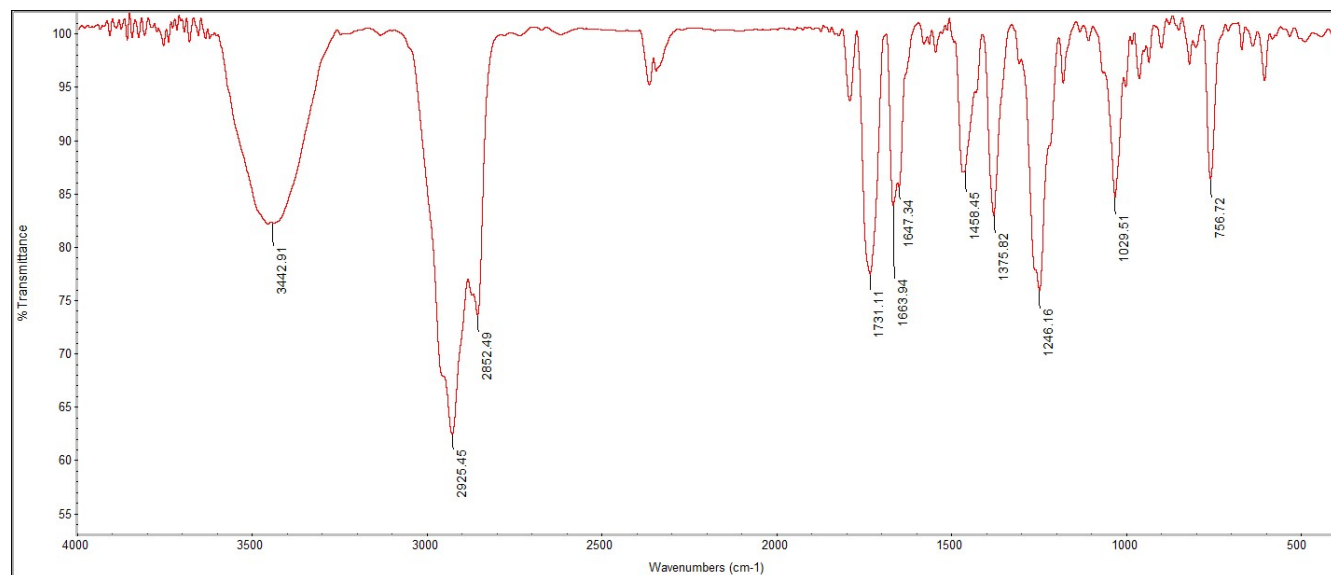
S19. ESIMS spectrum of compound 3

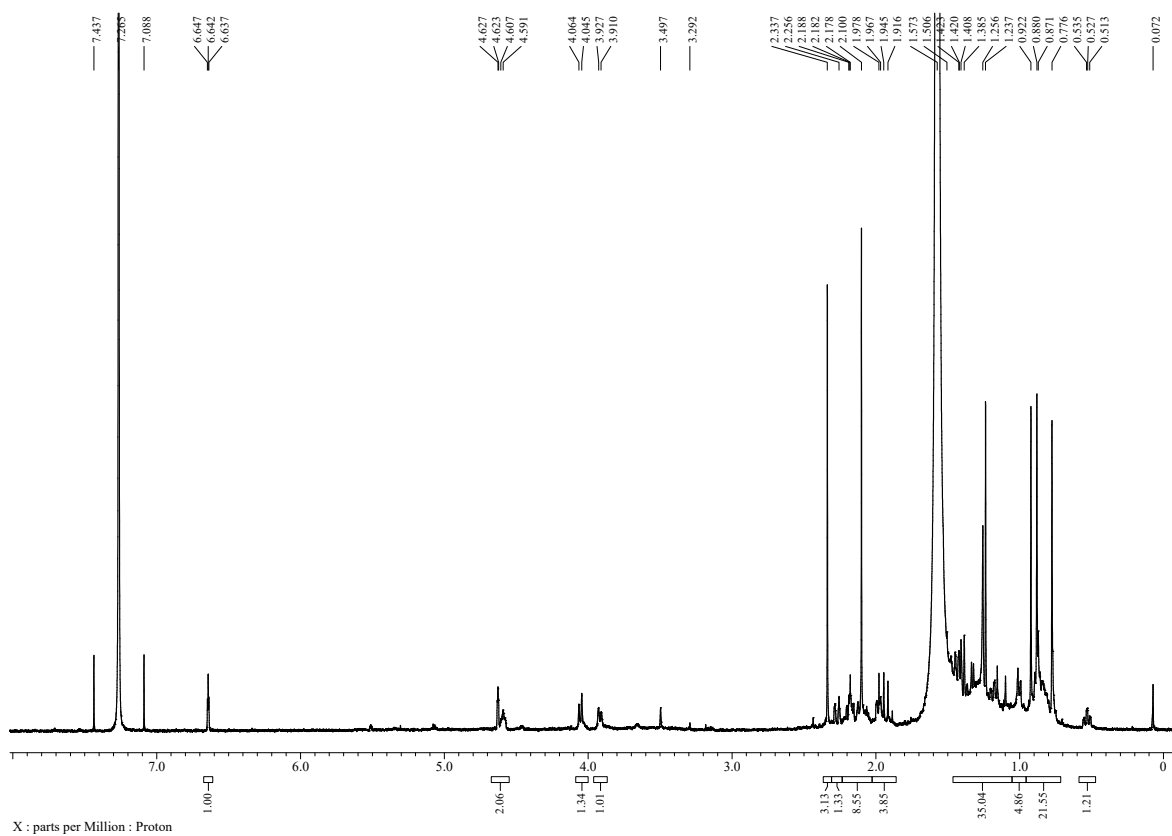
I7-10-5_20230927031322 #75 RT: 0.54 AV: 1 NL: 1.17E9

T: FTMS + p ESI sid=35.00 Full ms [100.0000-1000.0000]

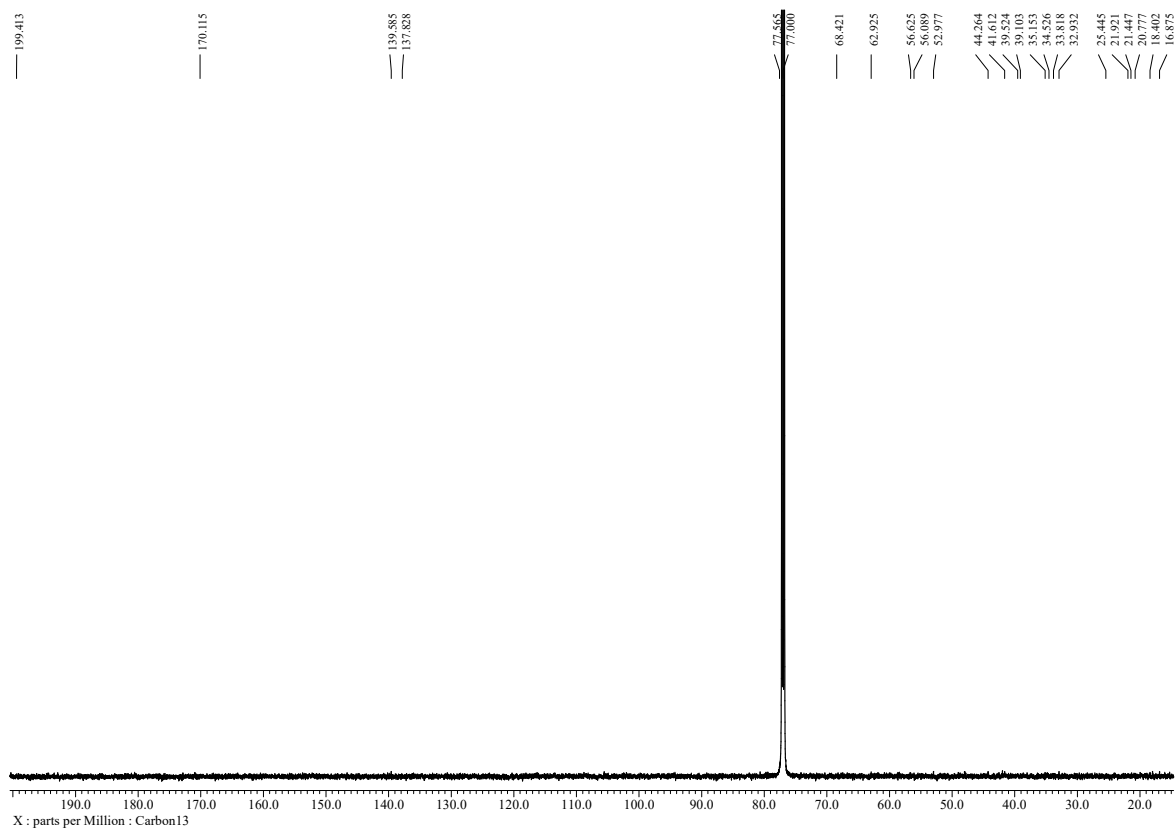


Peak Mass	Display Formula	S Fit	RDB	Delta [ppm]	Theo. mass	Pattern Cov. [%]	MSMS Matched...
469.29239	$C_{27}H_{42}O_5^{23}Na$	90.14733841360 13	6.50	-0.12	469.29245	100	(Collection)

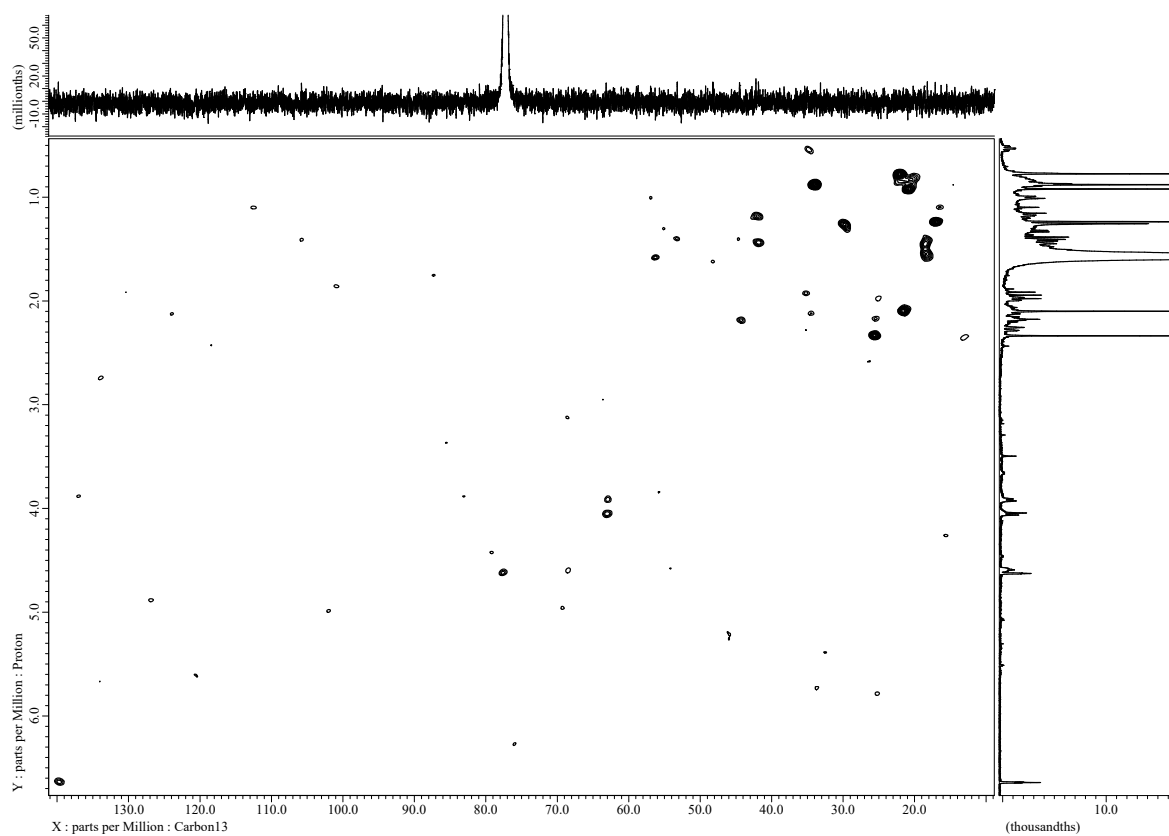
S20. HRESIMS spectrum of compound **3**S21. IR spectrum of compound **3**



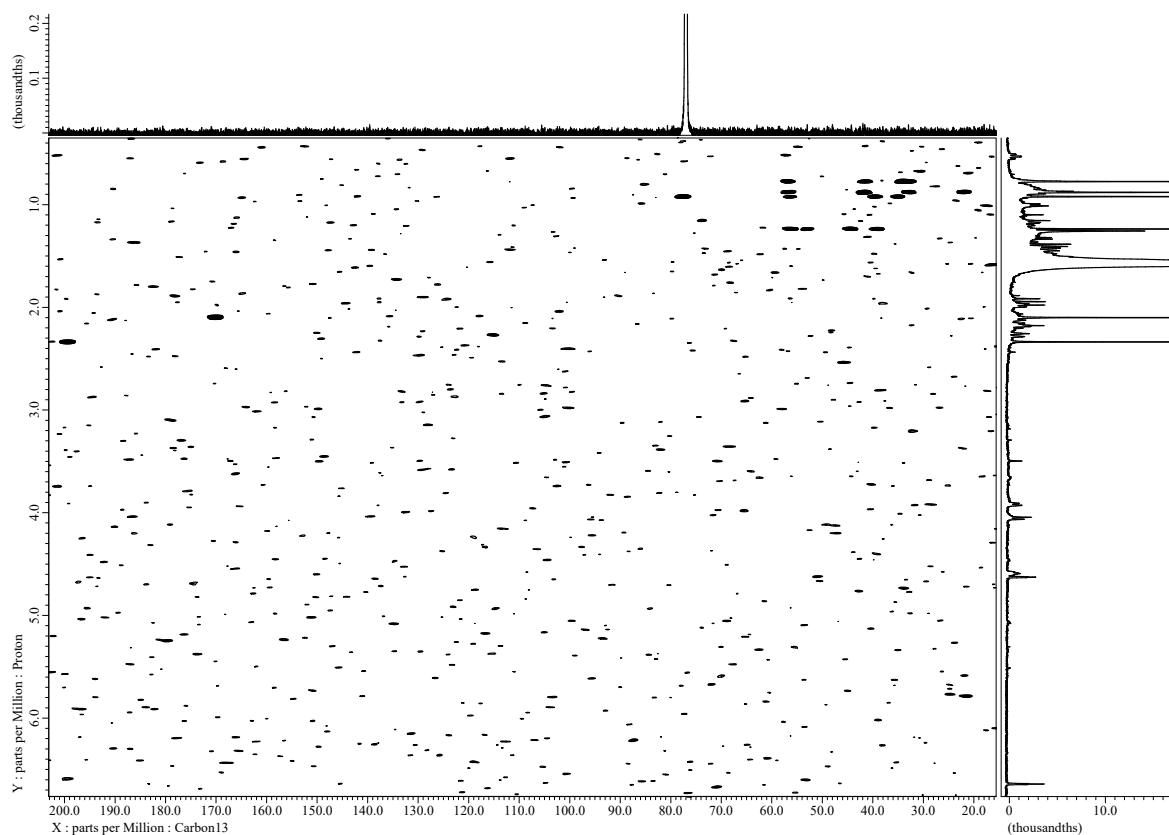
S22. ^1H NMR spectrum (600 MHz) of compound **3** in CDCl_3



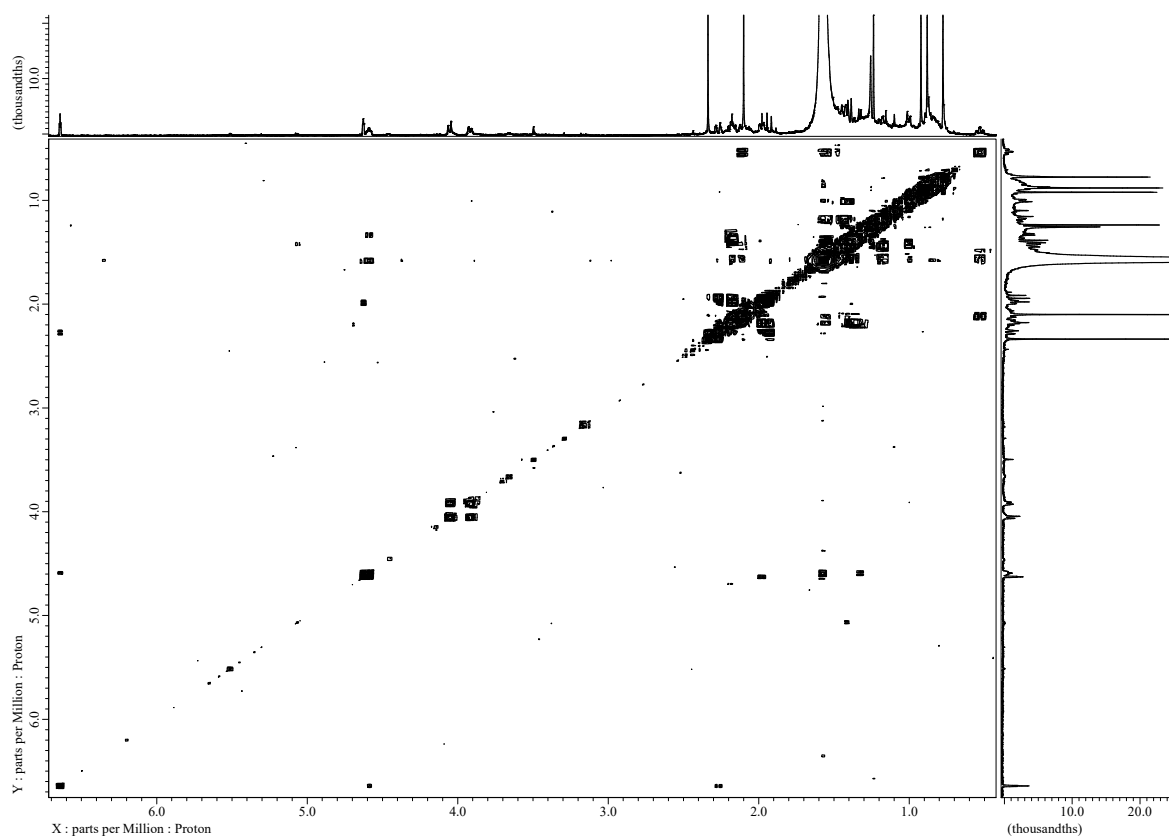
S23. ^{13}C NMR spectrum (150 MHz) of compound **3** in CDCl_3



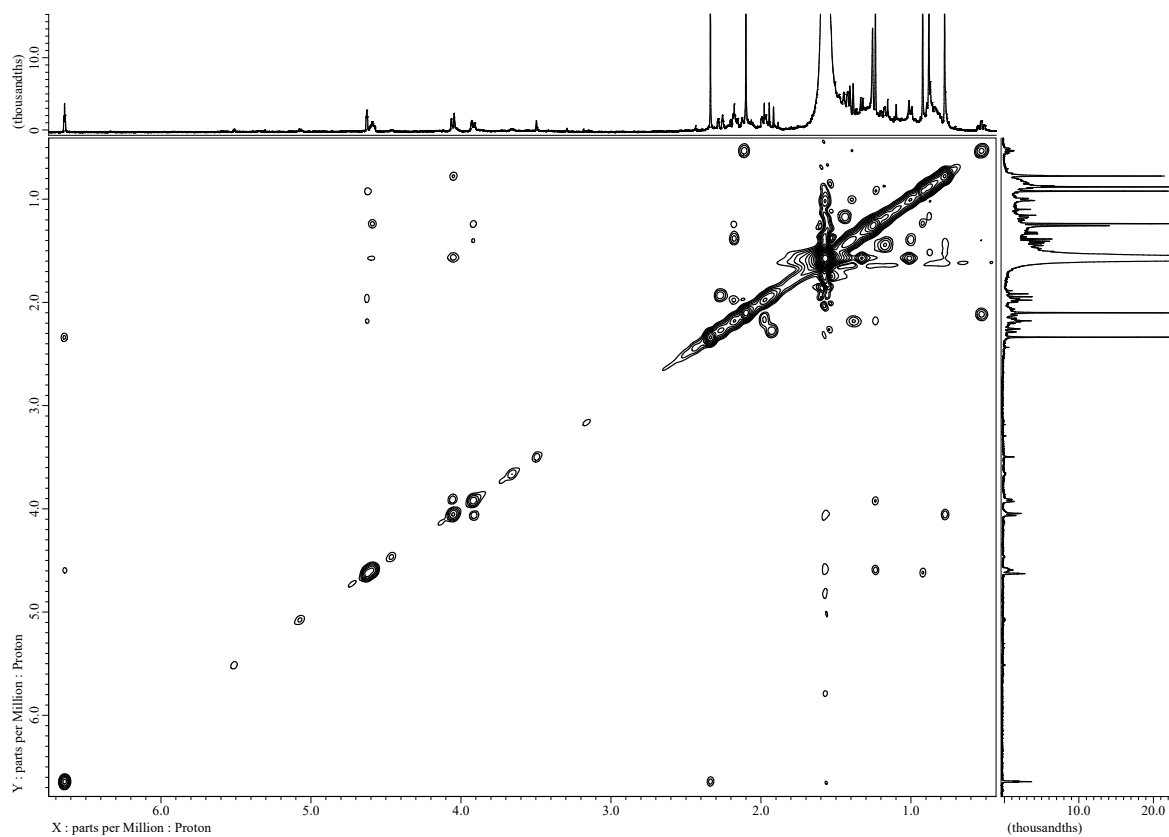
S24. HSQC spectrum of compound **3** in CDCl_3



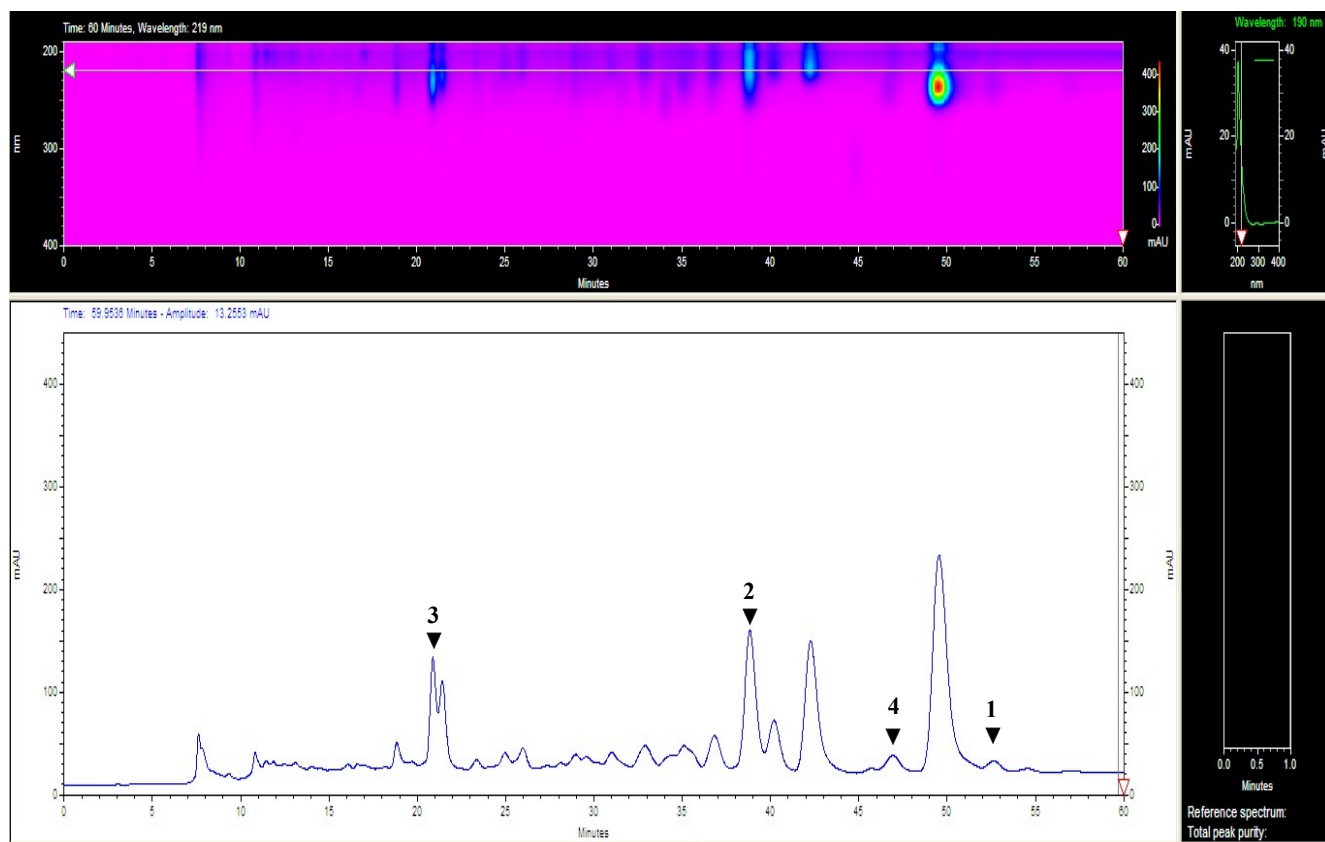
S25. HMBC spectrum of compound **3** in CDCl_3



S26. ^1H - ^1H COSY spectrum of compound **3** in CDCl_3



S27. NOESY spectrum of compound **3** in CDCl_3



S28. HPLC chromatogram of four compounds **1–4** using a C18 reversed-phase column (MeOH/H₂O = 80:20, flow rate = 5.0 mL min⁻¹); four compounds **1–4** were separated with retention times of 53.4, 39.1, 20.9, and 47.4 min, respectively