

Supplementary Data

Synthesis and Characterization of Novel Oxime Analogues

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¹H NMR, ¹³C NMR, and Mass Spectra

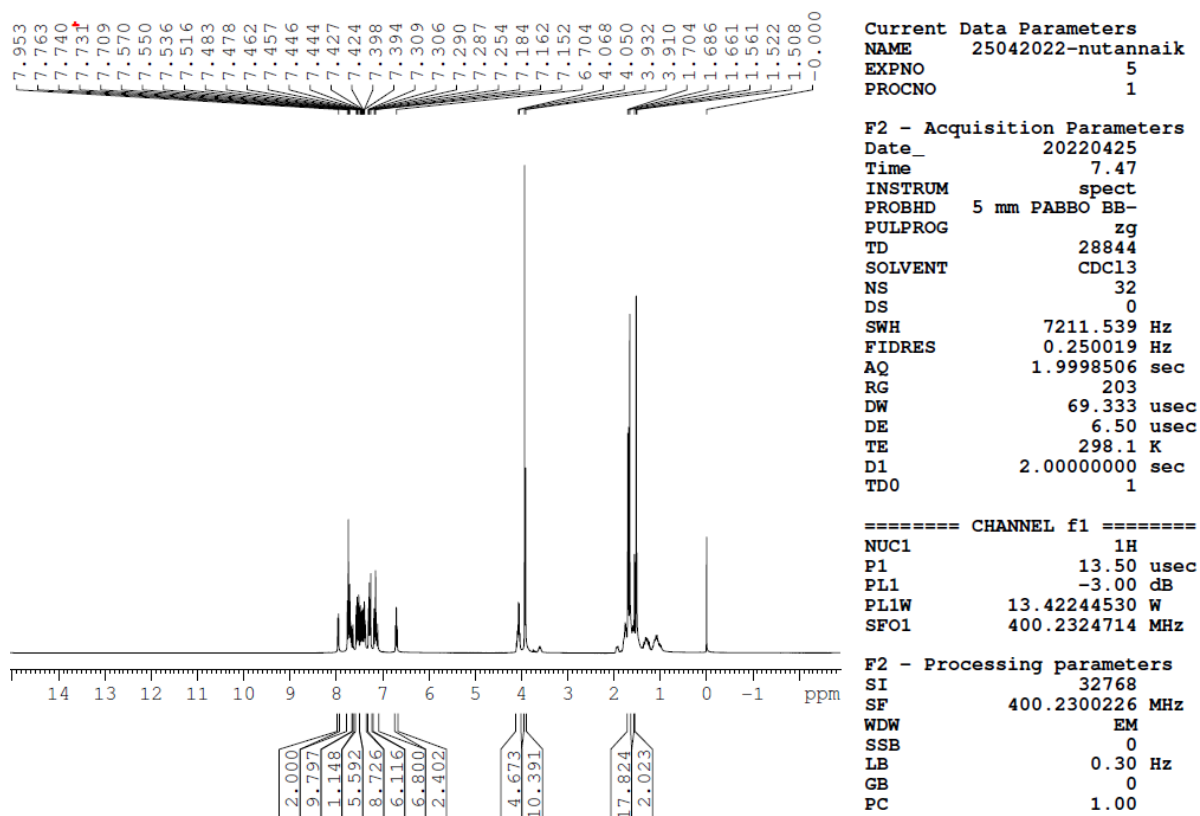


Fig. S1: ¹H NMR spectrum of compound 1a

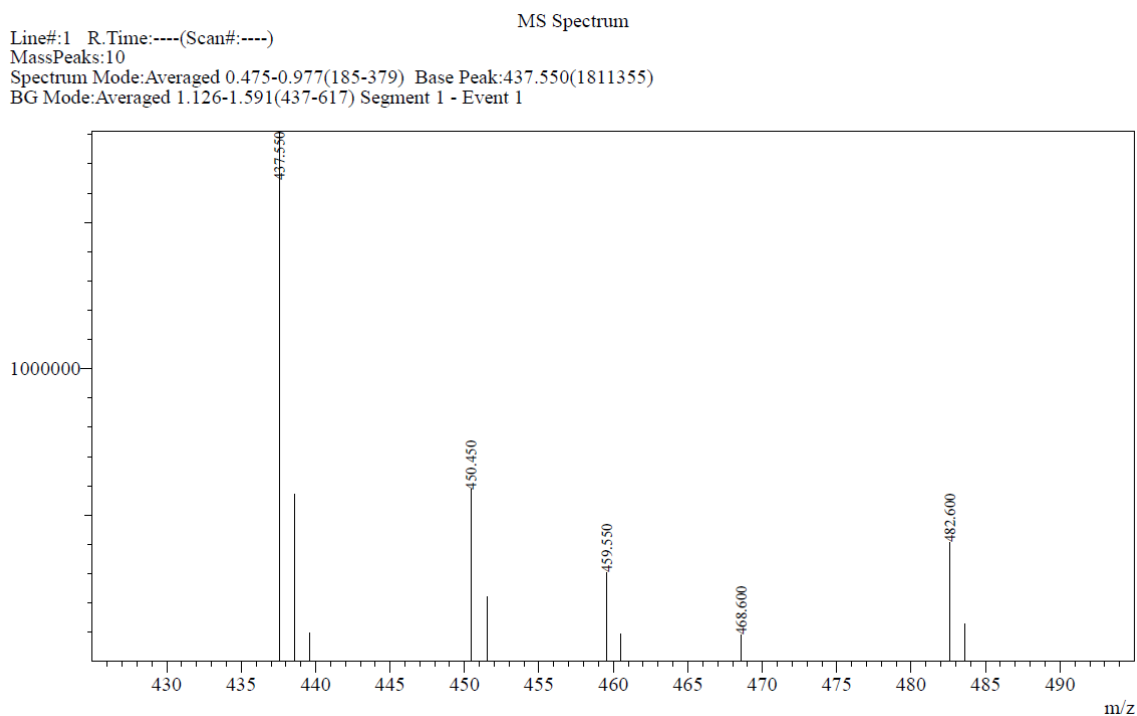


Fig. S2: Mass spectrum of compound 1a

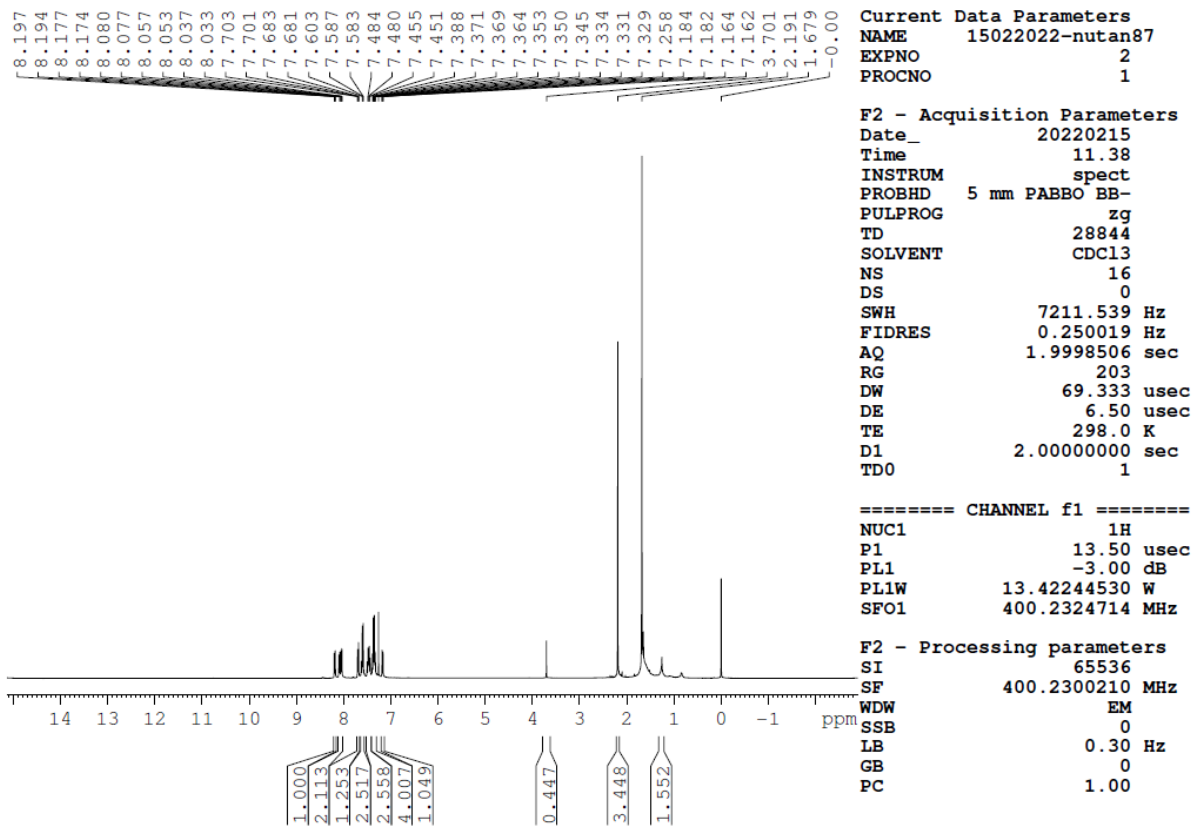


Fig. S3: ¹H NMR spectrum of compound 1b

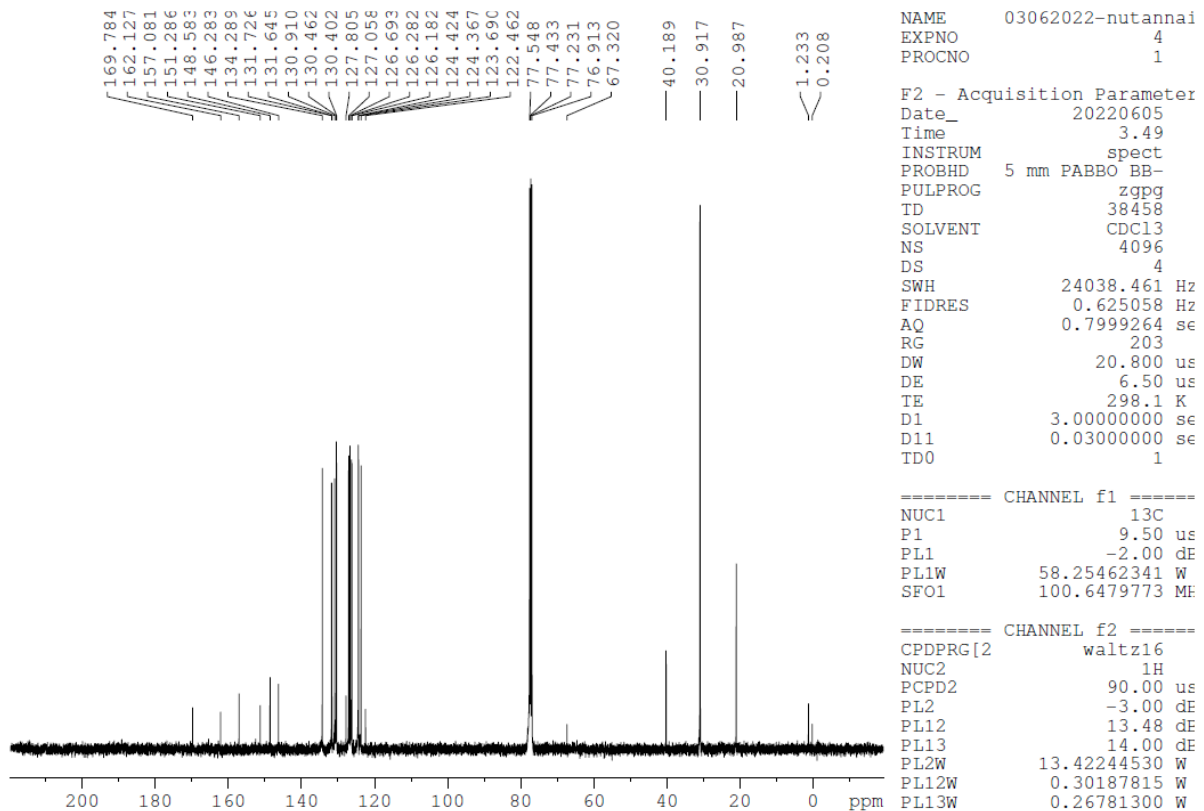


Fig. S4: ¹³C NMR spectrum of compound 1b

Line#:1 R.Time:----(Scan#:----)
 MassPeaks:21
 Spectrum Mode:Averaged 0.377-1.101(147-427) Base Peak:400.400(178646)
 BG Mode:Averaged 1.235-1.783(479-691) Segment 1 - Event 1

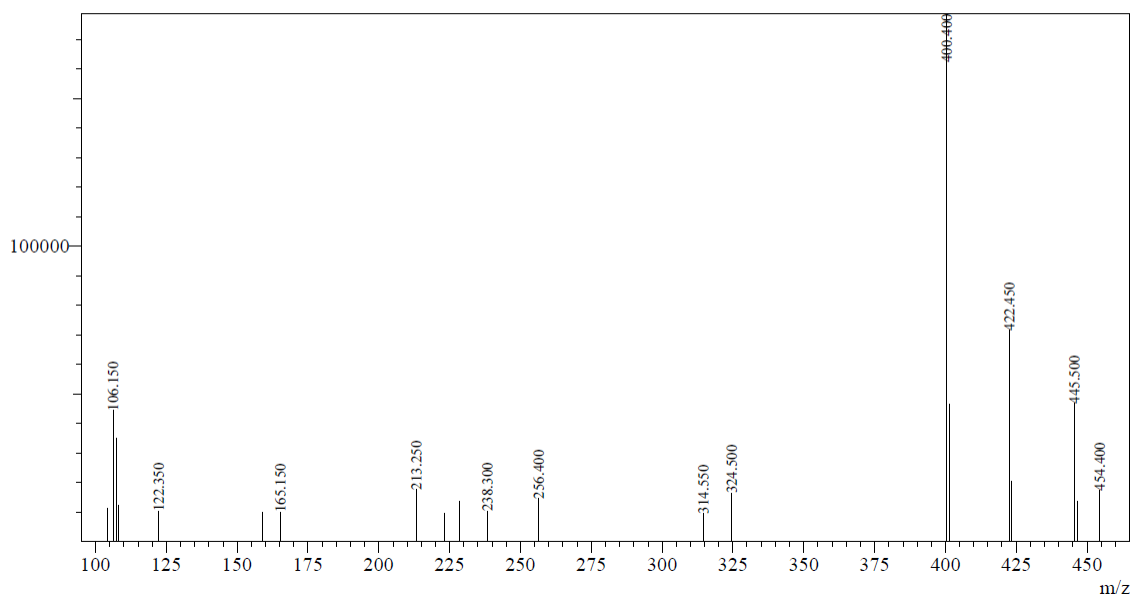
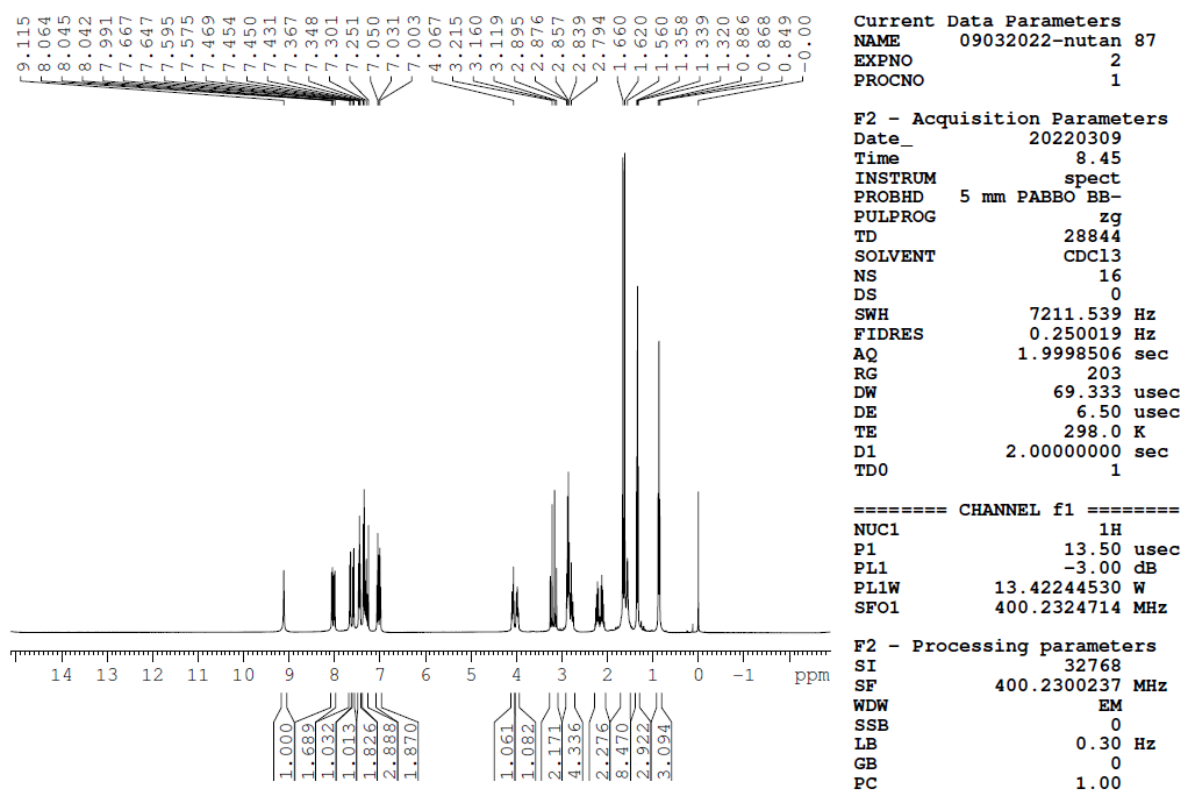


Fig. S5: Mass spectrum of compound 1b



Current Data Parameters
 NAME 09032022-nutan 87
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20220309
 Time 8.45
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg
 TD 28844
 SOLVENT CDC13
 NS 16
 DS 0
 SWH 7211.539 Hz
 FIDRES 0.250019 Hz
 AQ 1.9998506 sec
 RG 203
 DW 69.333 usec
 DE 6.50 usec
 TE 298.0 K
 D1 2.00000000 sec
 TD0 1

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 P1 13.50 usec
 PL1 -3.00 dB
 PL1W 13.42244530 W
 SFO1 400.2324714 MHz

F2 - Processing parameters
 SI 32768
 SF 400.2300237 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

Fig. S6: ¹H NMR spectrum of compound 1c

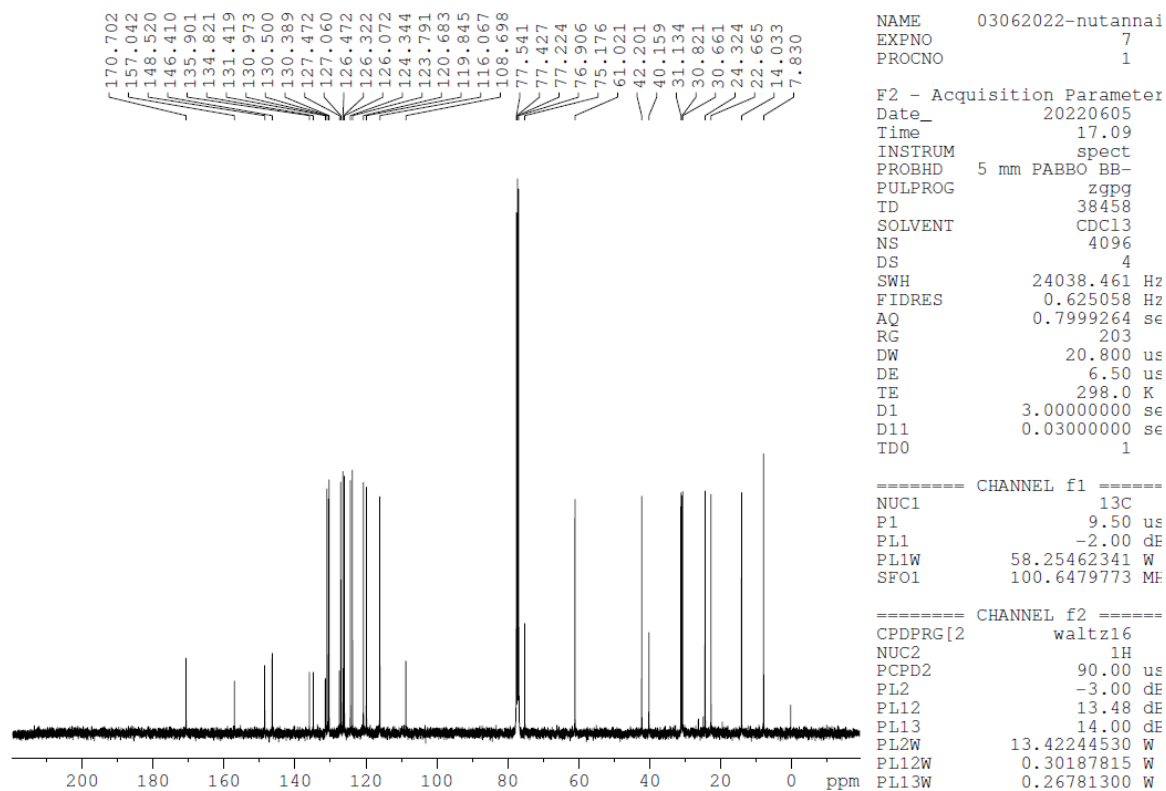


Fig. S7: ¹³C NMR spectrum of compound 1c

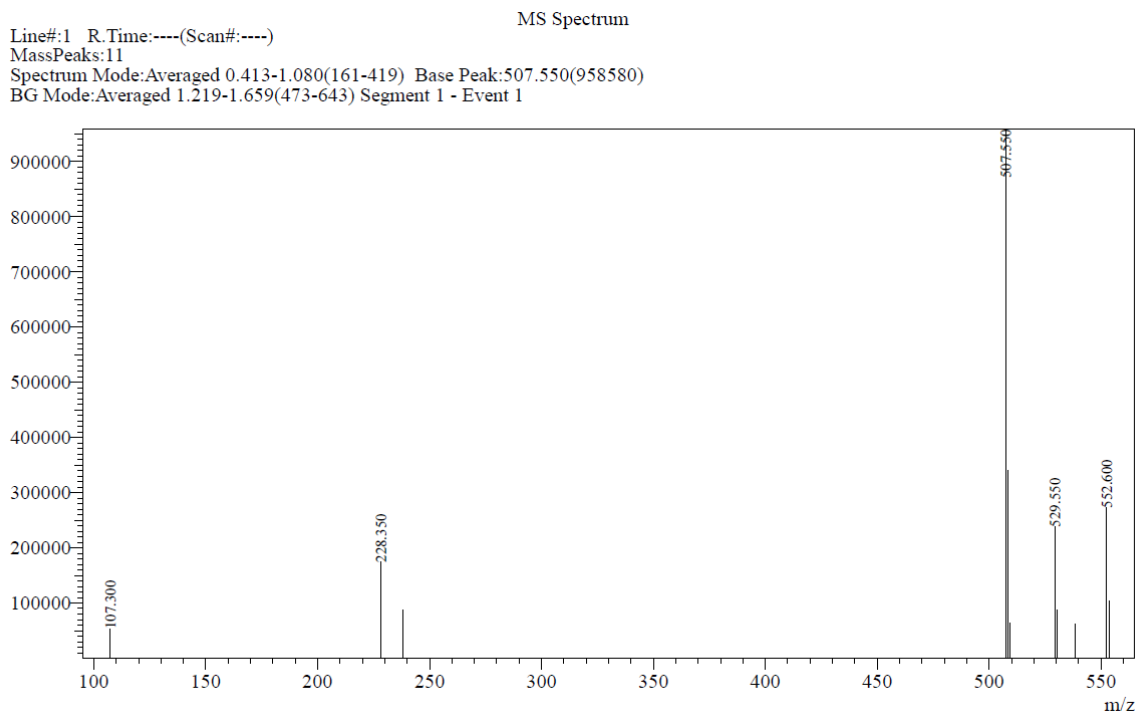


Fig. S8: Mass spectrum of compound 1c

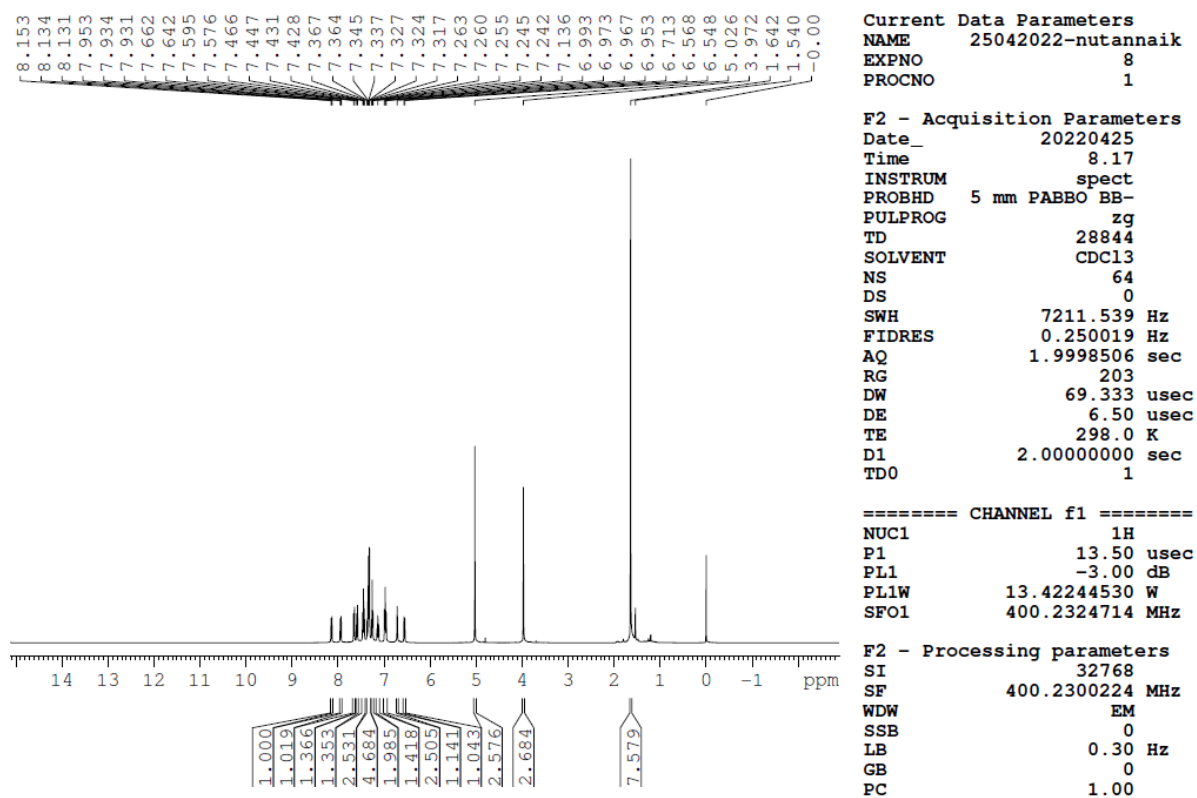


Fig. S9: ¹H NMR spectrum of compound 1d

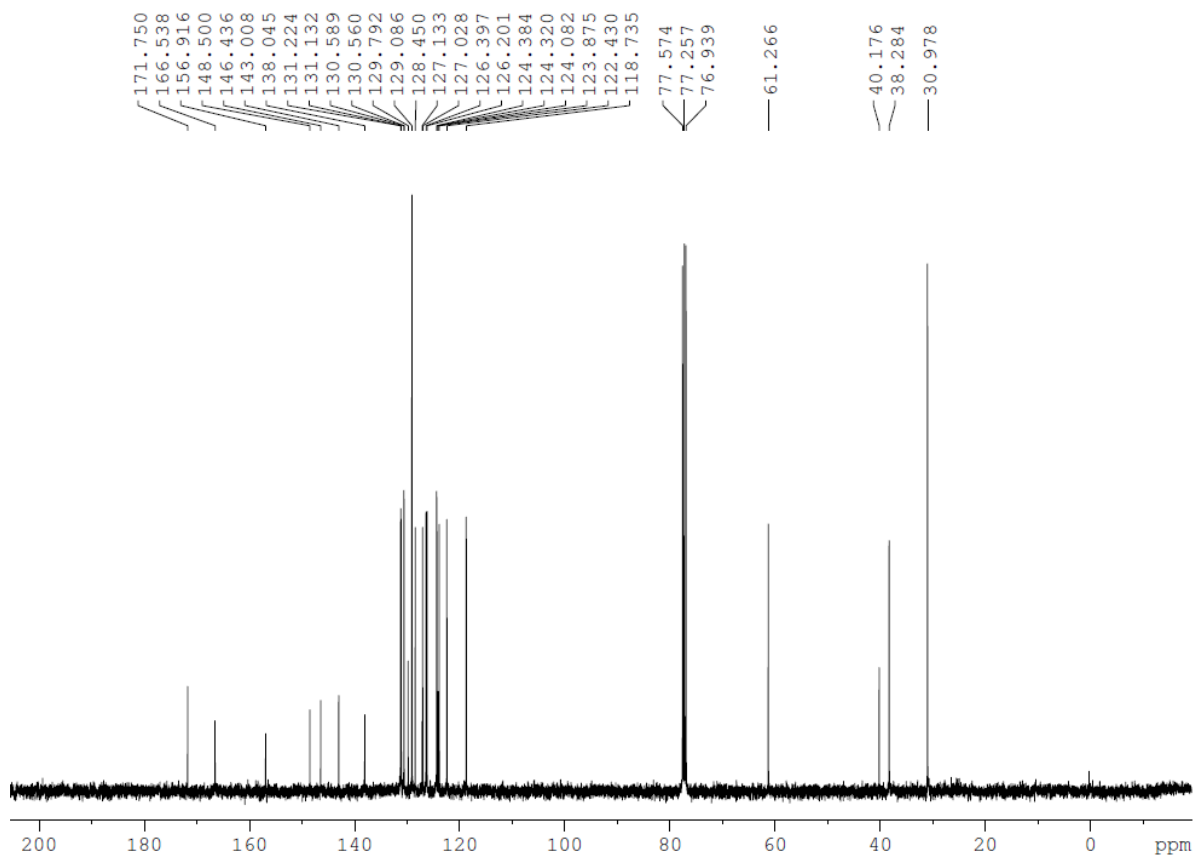


Fig. S10: ¹³C NMR spectrum of compound 1d

Line#:1 R.Time:----(Scan#:----)
 MassPeaks:27
 Spectrum Mode:Averaged 0.419-1.111(163-431) Base Peak:573.400(352320)
 BG Mode:Averaged 1.240-1.726(481-669) Segment 1 - Event 1

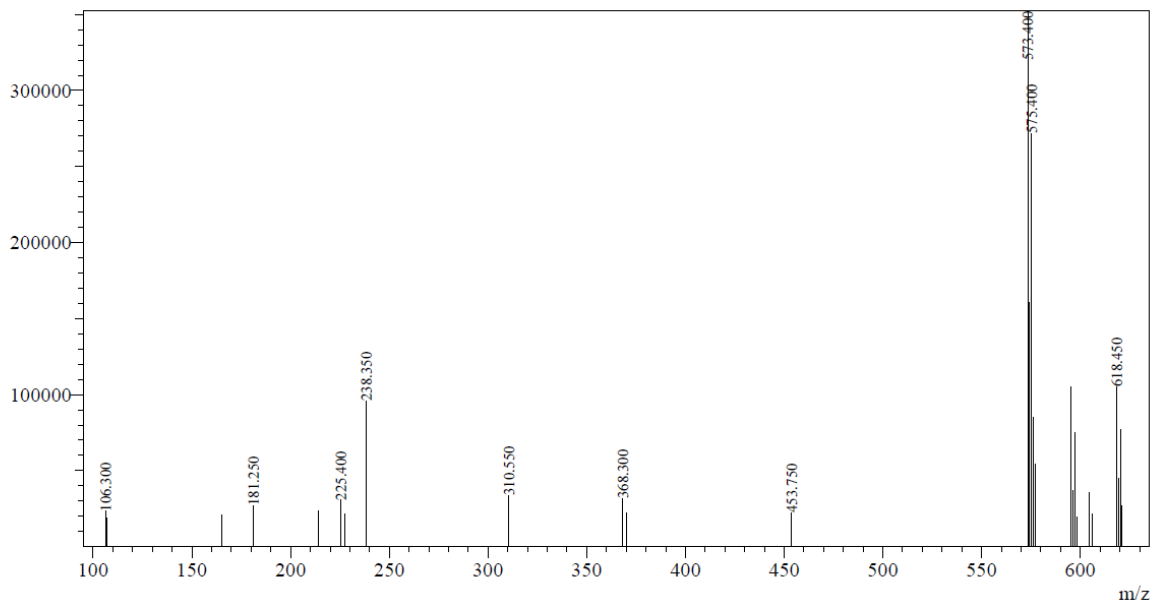


Fig. S11: Mass spectrum of compound 1d

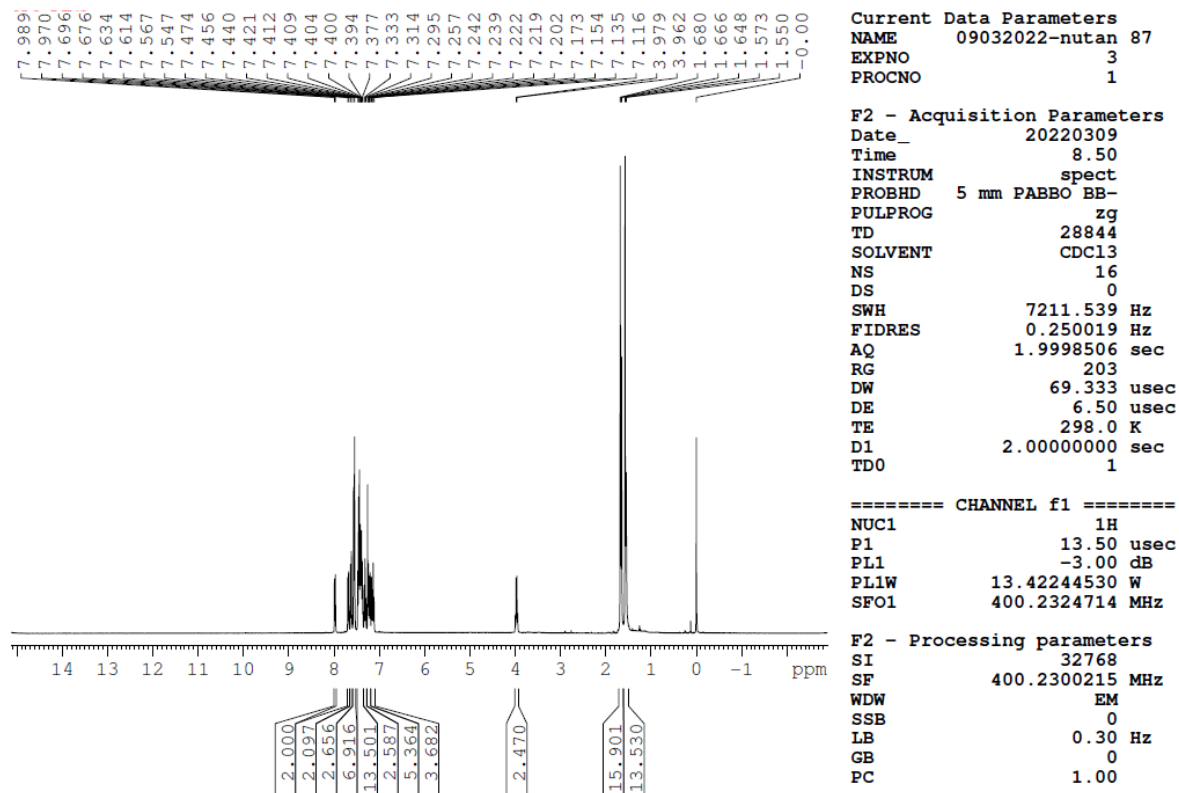


Fig. S12: ¹H NMR spectrum of compound 1e

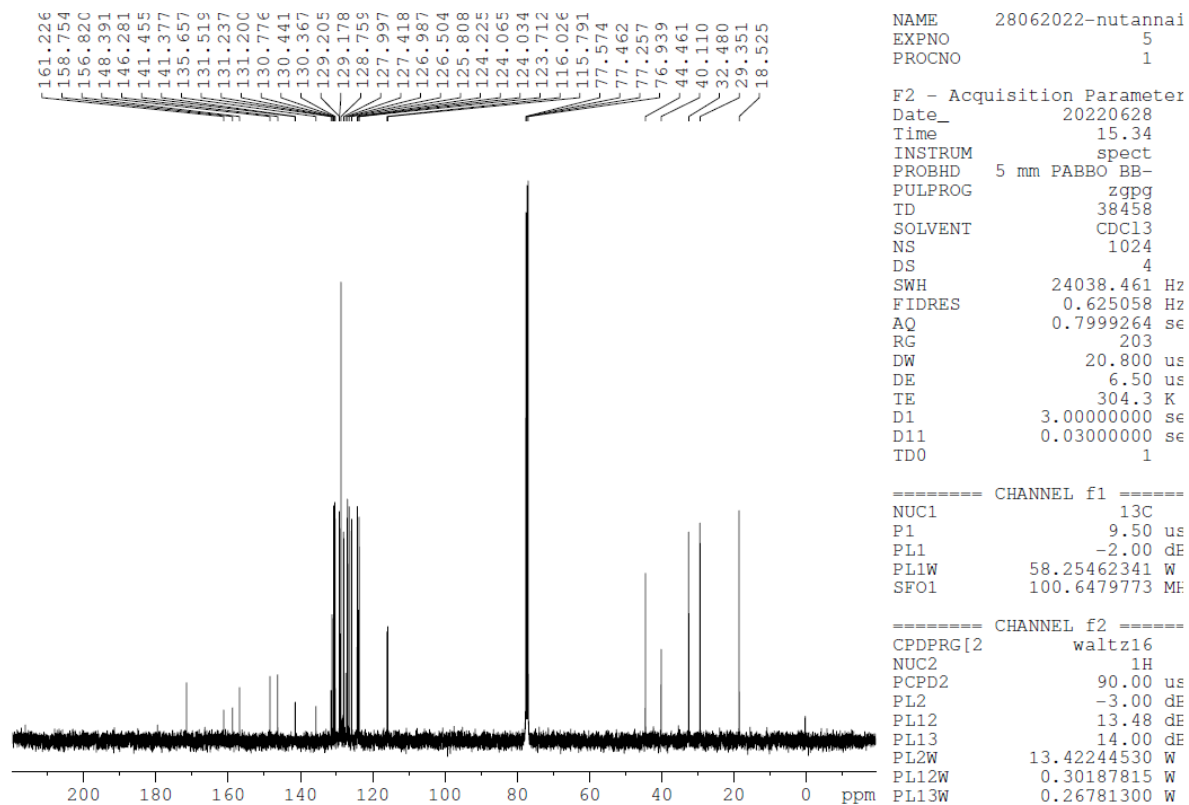


Fig. S13: ¹³C NMR spectrum of compound 1e

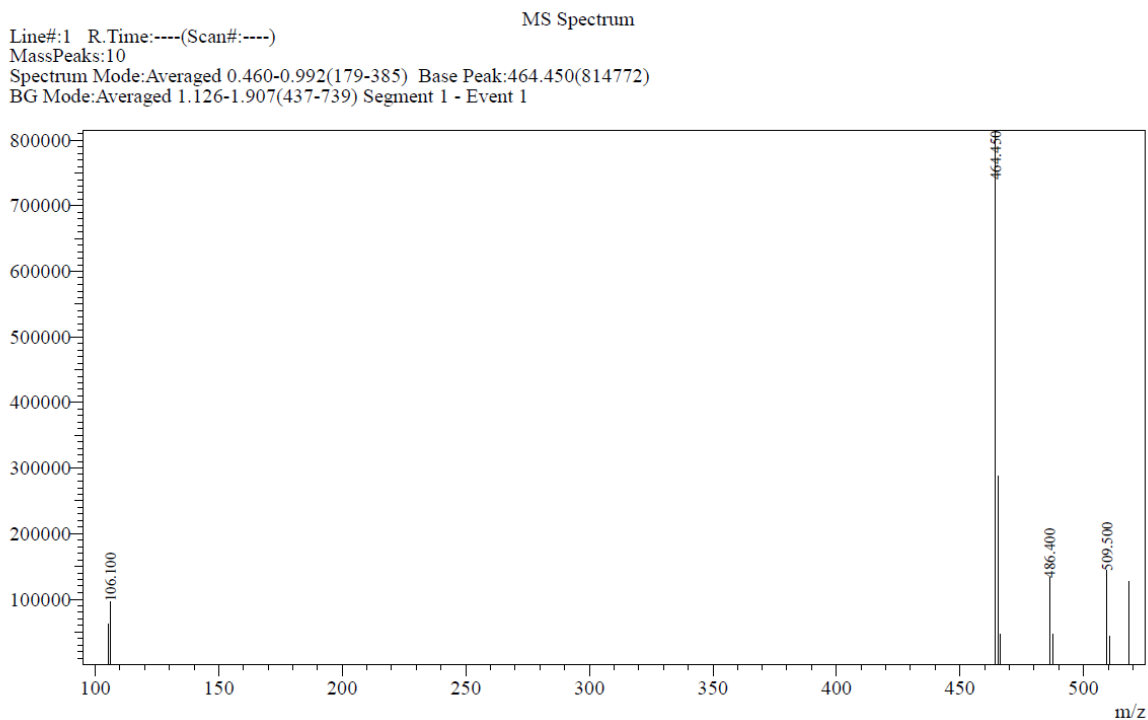


Fig. S14: Mass spectrum of compound 1e

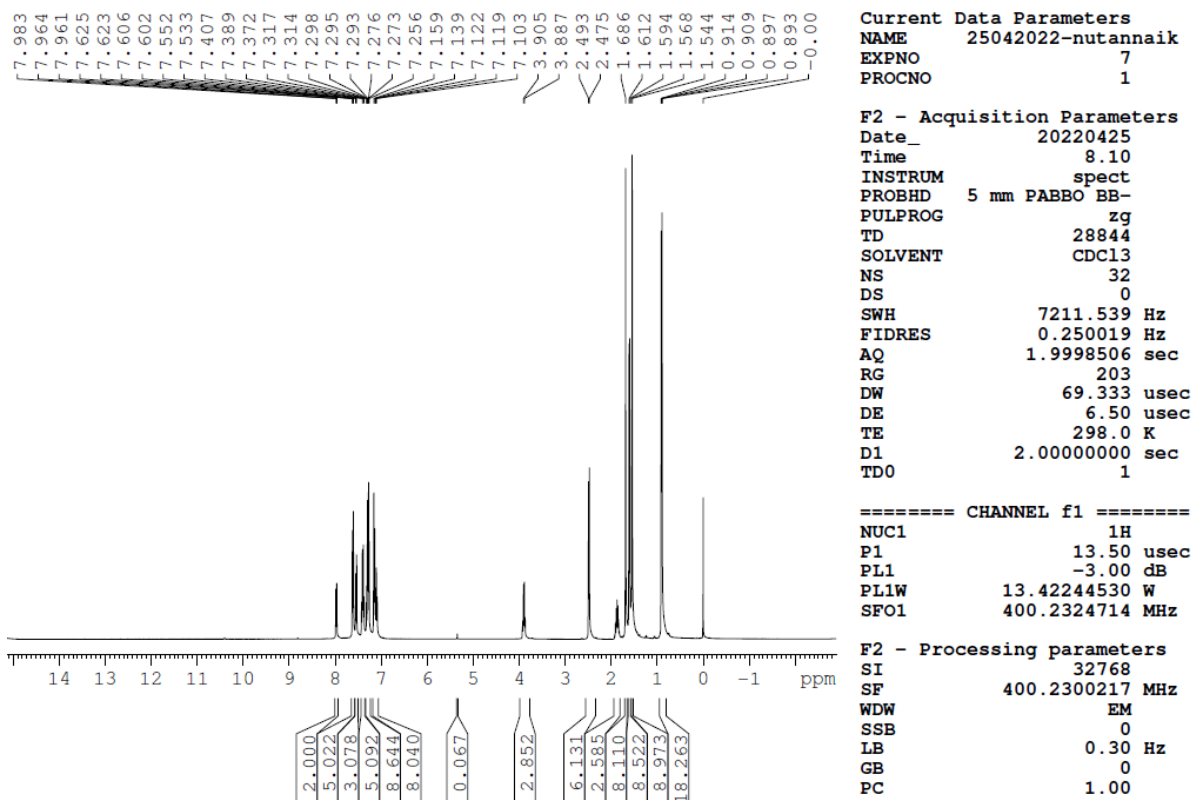


Fig. S15: ¹H NMR spectrum of compound 1f

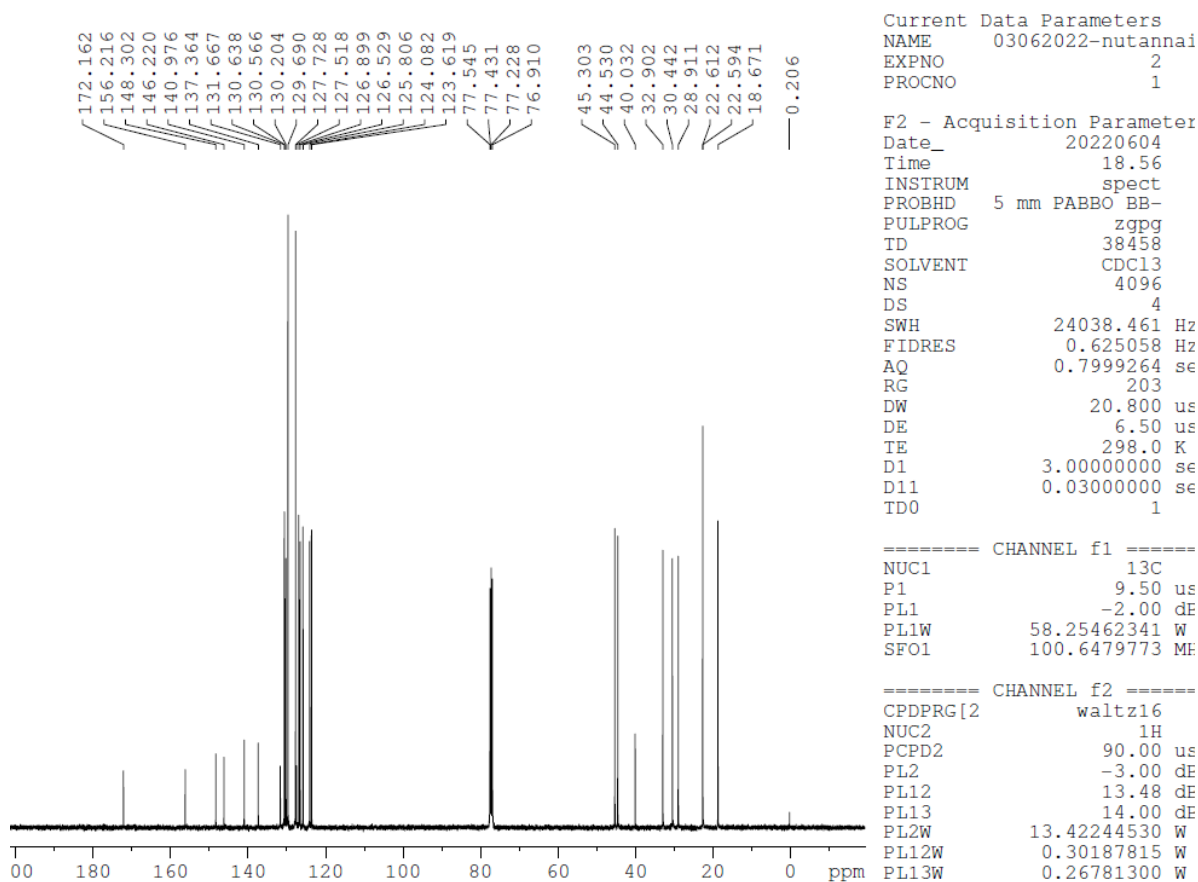


Fig. S16: ¹³C NMR spectrum of compound 1f

MS Spectrum
 Line#:1 R.Time:----(Scan#:----)
 MassPeaks:7
 Spectrum Mode:Averaged 0.444-1.044(173-405) Base Peak:426.500(997951)
 BG Mode:Averaged 1.240-1.674(481-649) Segment 1 - Event 1

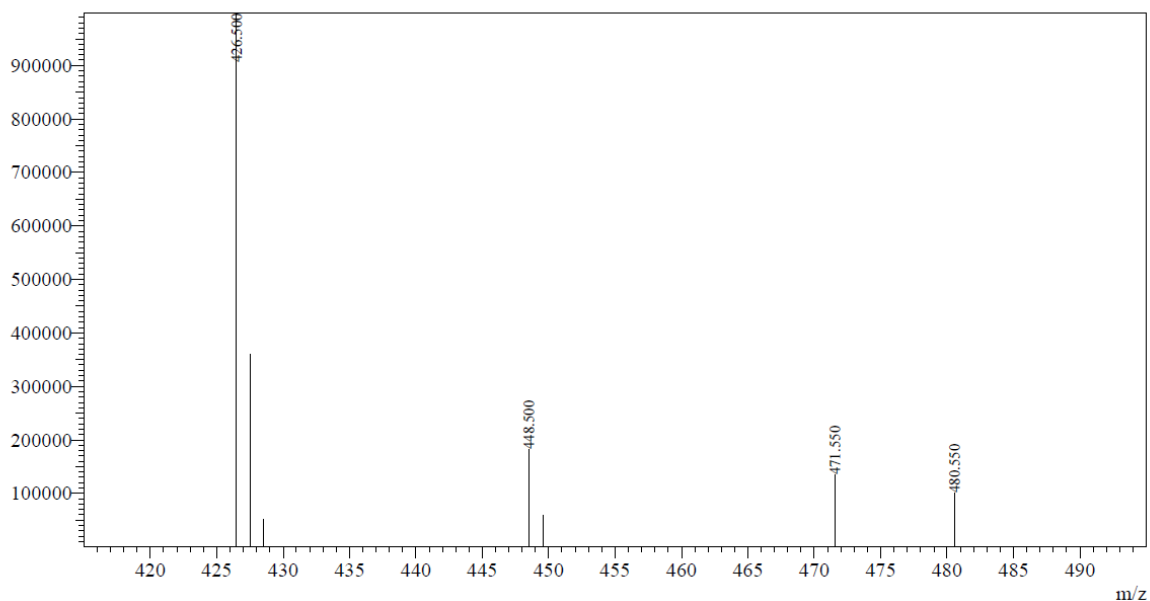


Fig. S17: Mass spectrum of compound 1f

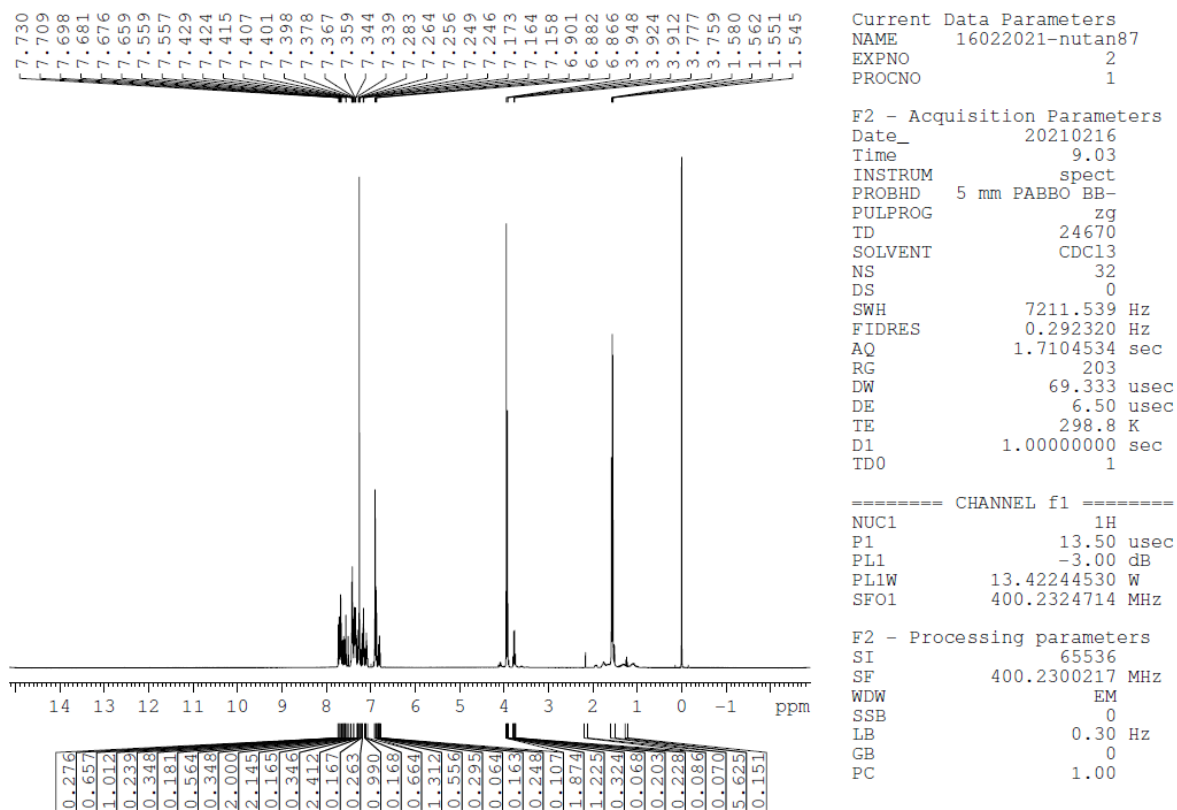


Fig. S18: ¹H NMR spectrum of compound 2a

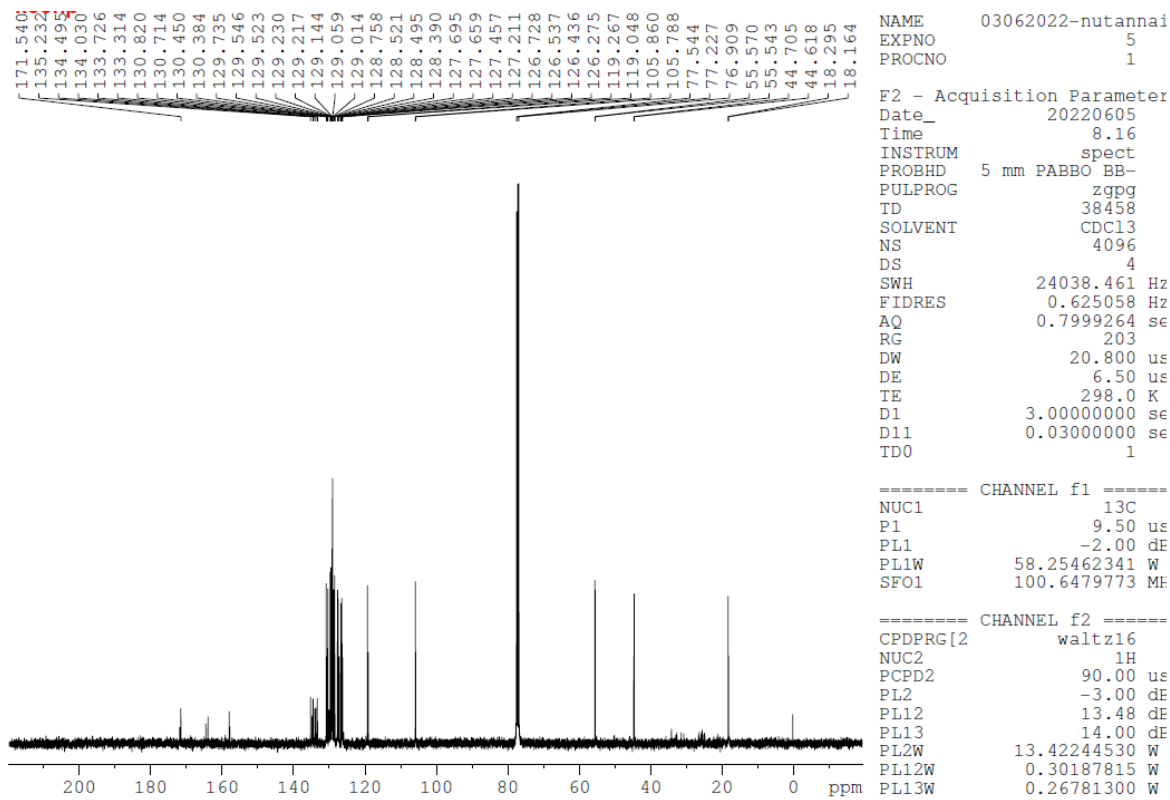


Fig. S19: ^{13}C NMR spectrum of compound 2a

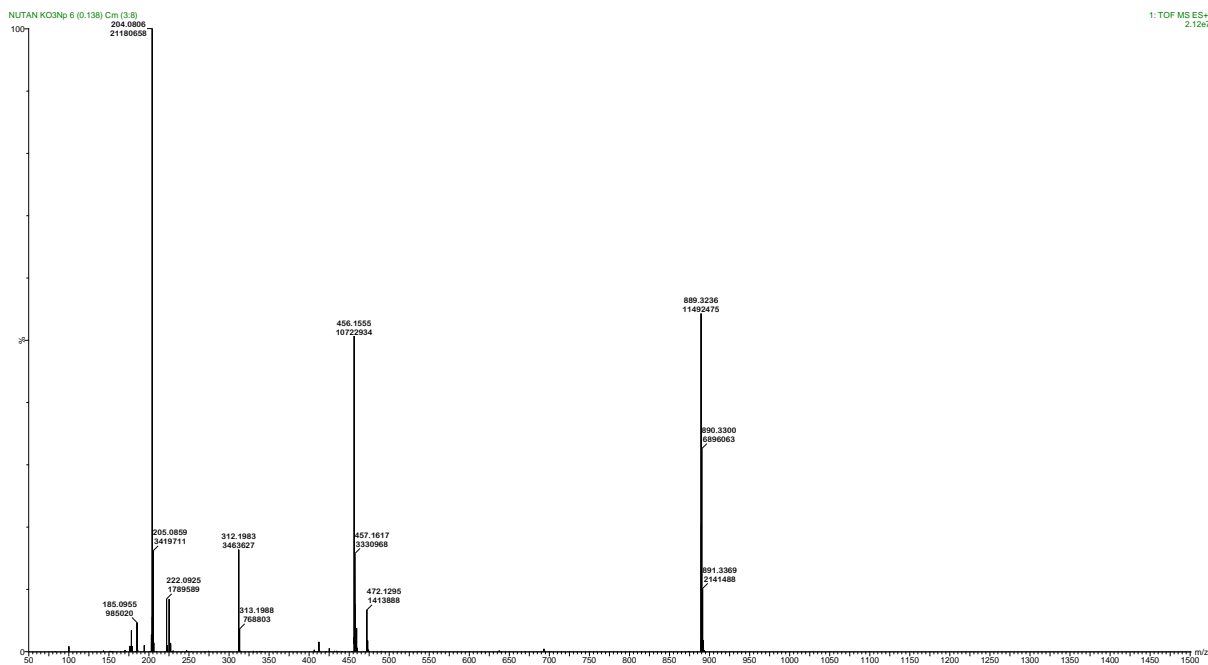


Fig. S20: Mass spectrum of compound 2a

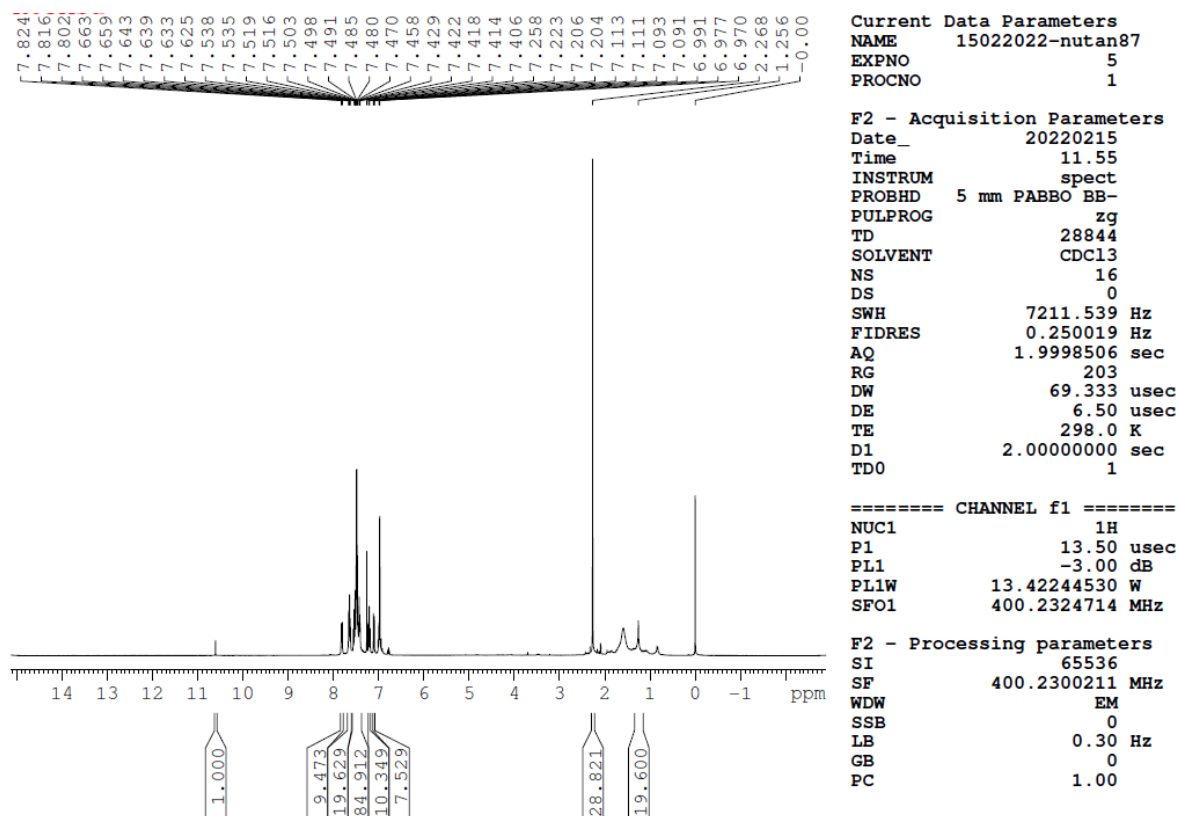


Fig. S21: ¹H NMR spectrum of compound 2b

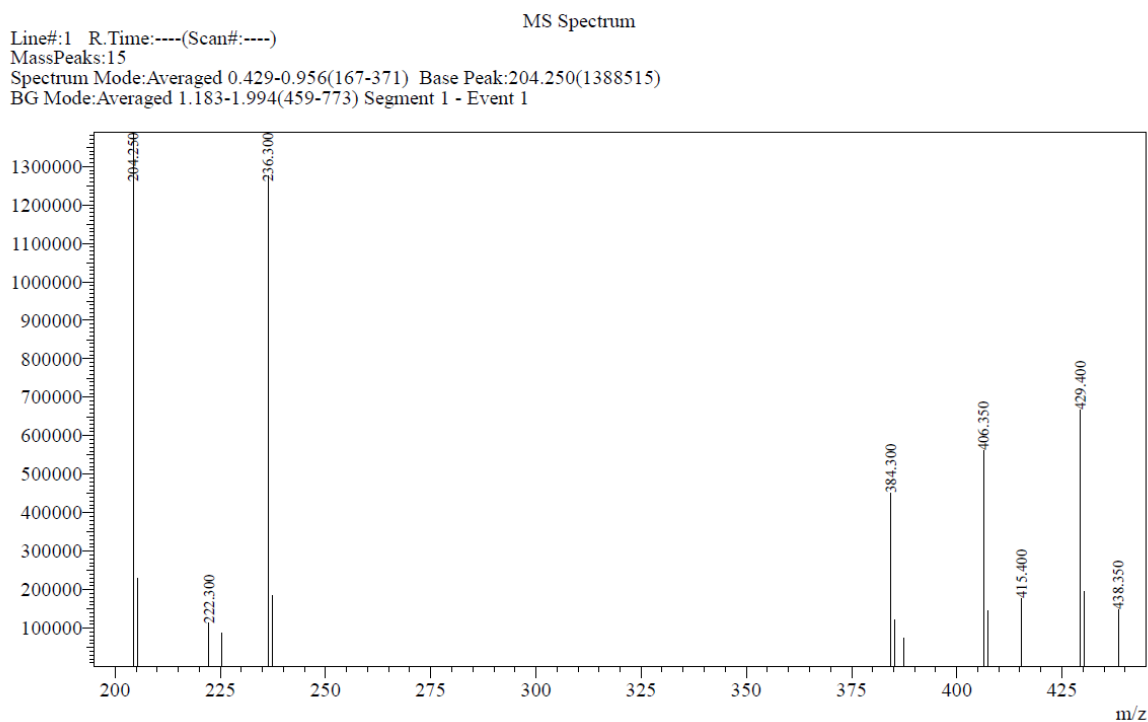


Fig. S22: Mass spectrum of compound 2b

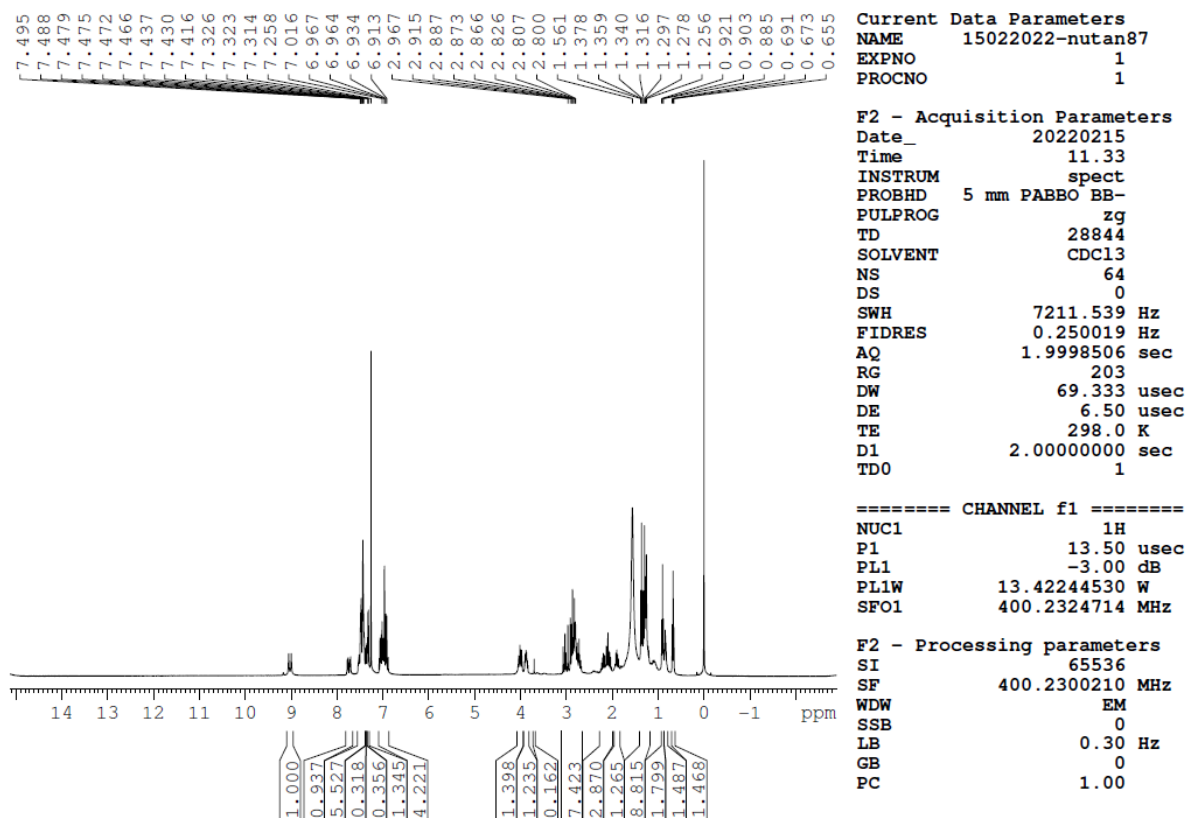


Fig. S23: ¹H NMR spectrum of compound 2c

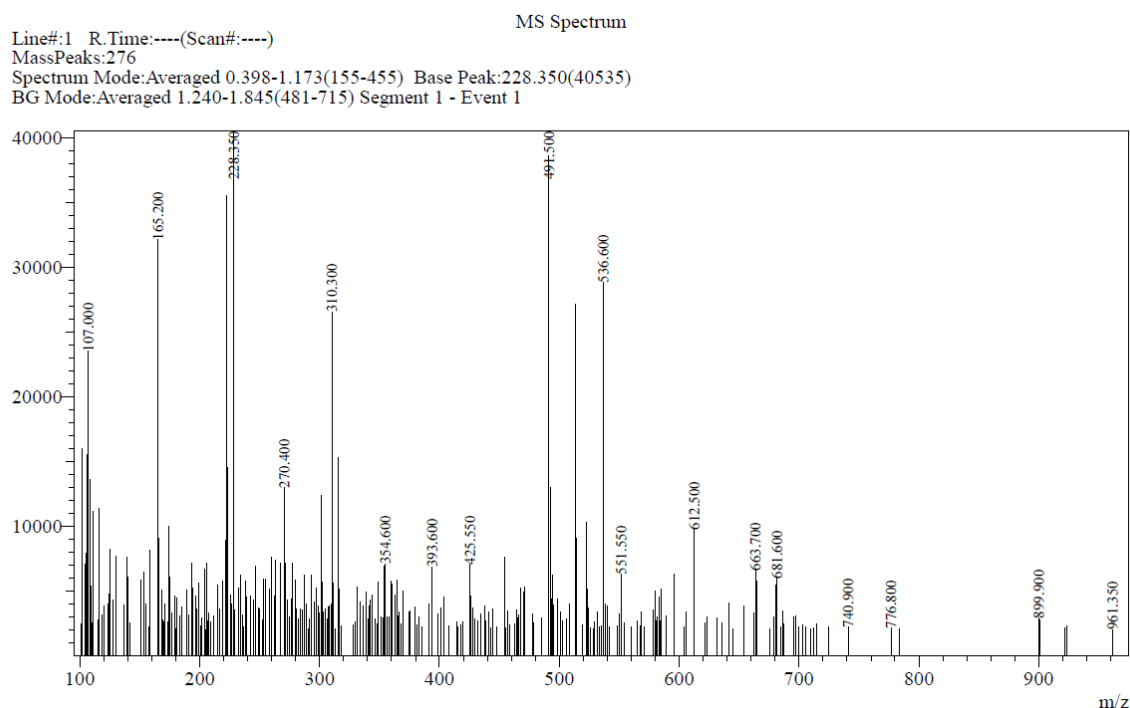


Fig. S24: Mass spectrum of compound 2c

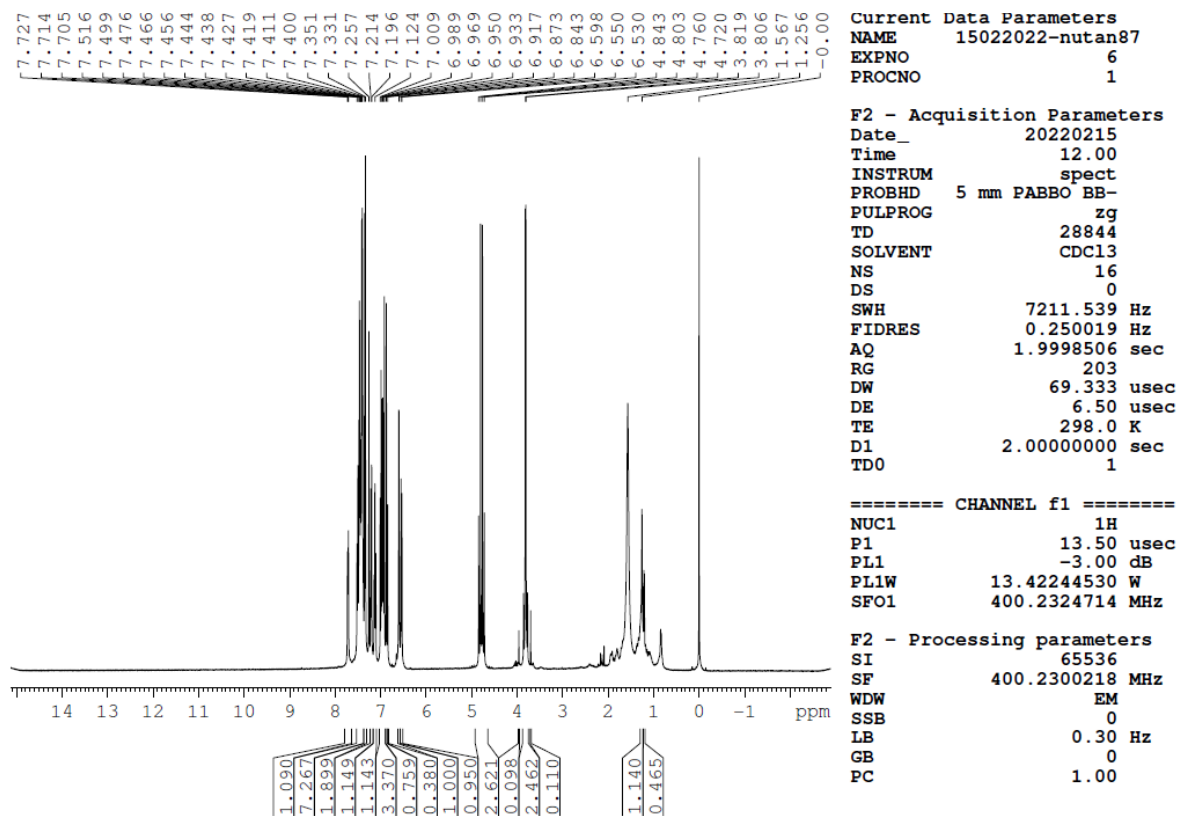


Fig. S25: ^1H NMR spectrum of compound 2d

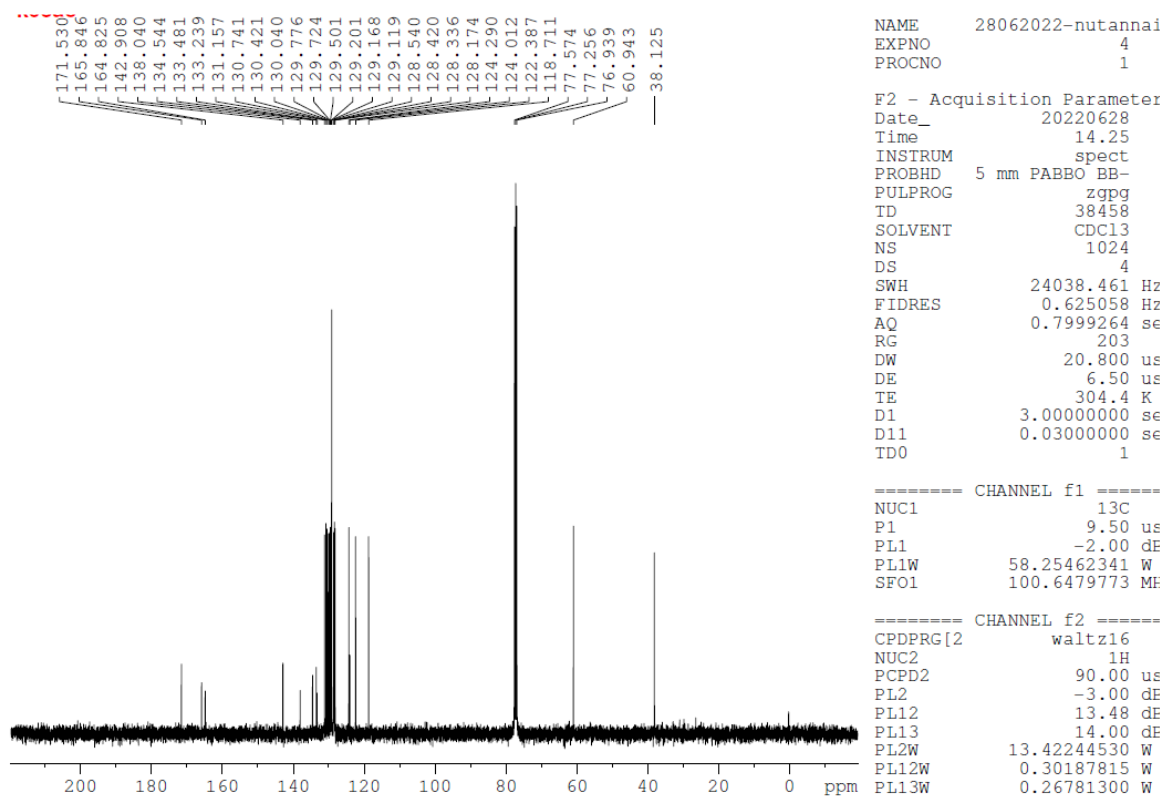


Fig. S26: ^{13}C NMR spectrum of compound 2d

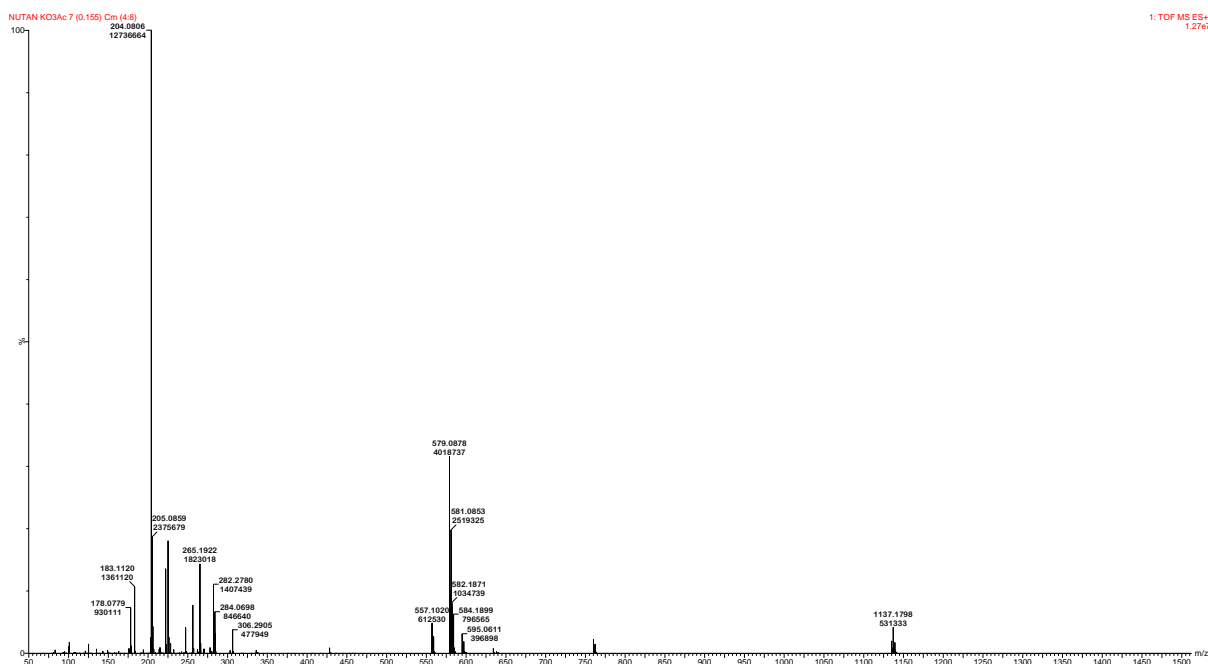


Fig. S27: Mass spectrum of compound 2d

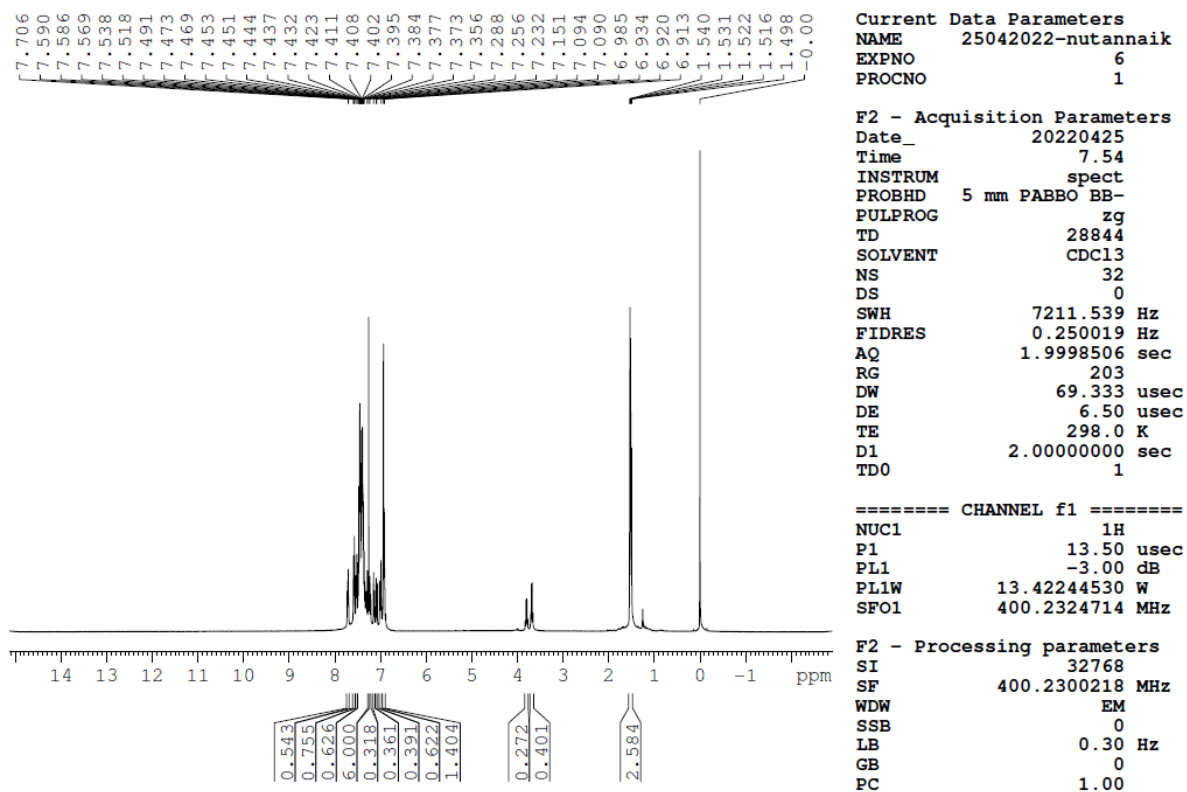


Fig. S28: ¹H NMR spectrum of compound 2e

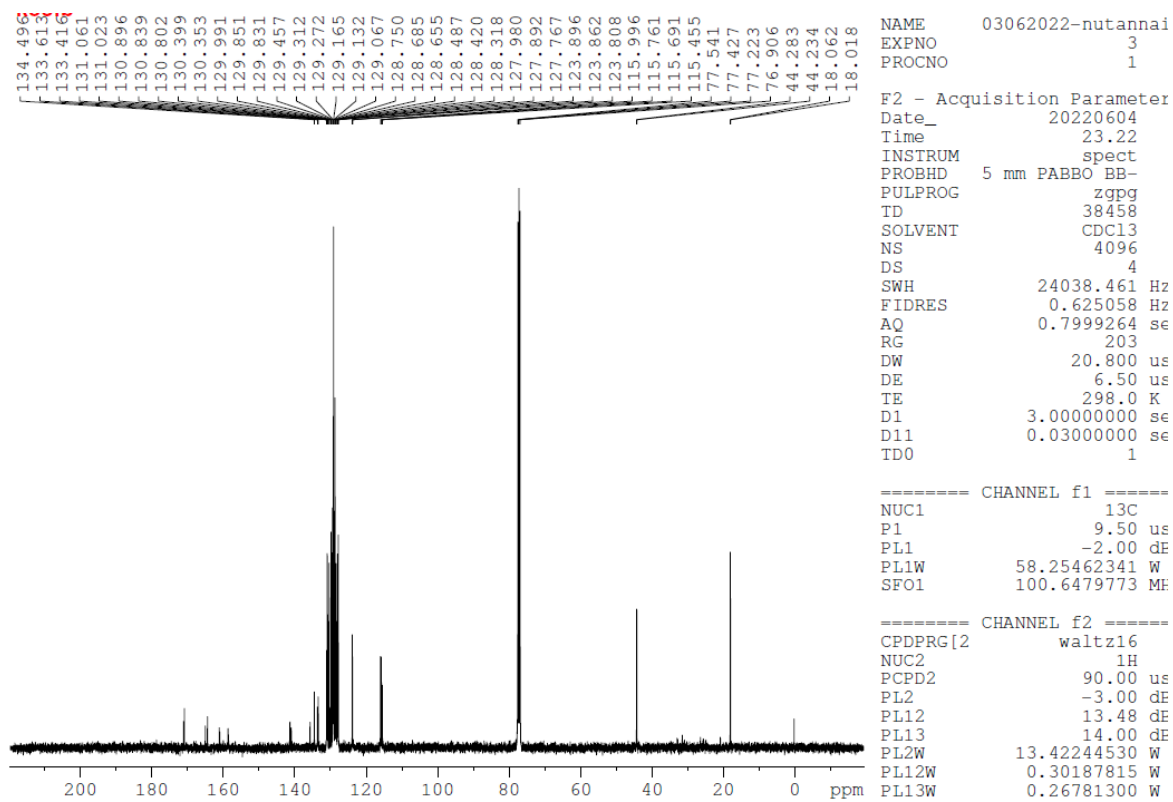


Fig. S29: ¹³C NMR spectrum of compound 2e

Line#:1 R.Time:----(Scan#:----)
 MassPeaks:14
 Spectrum Mode:Averaged 0.429-1.044(167-405) Base Peak:204.250(687222)
 BG Mode:Averaged 1.287-1.808(499-701) Segment 1 - Event 1

MS Spectrum

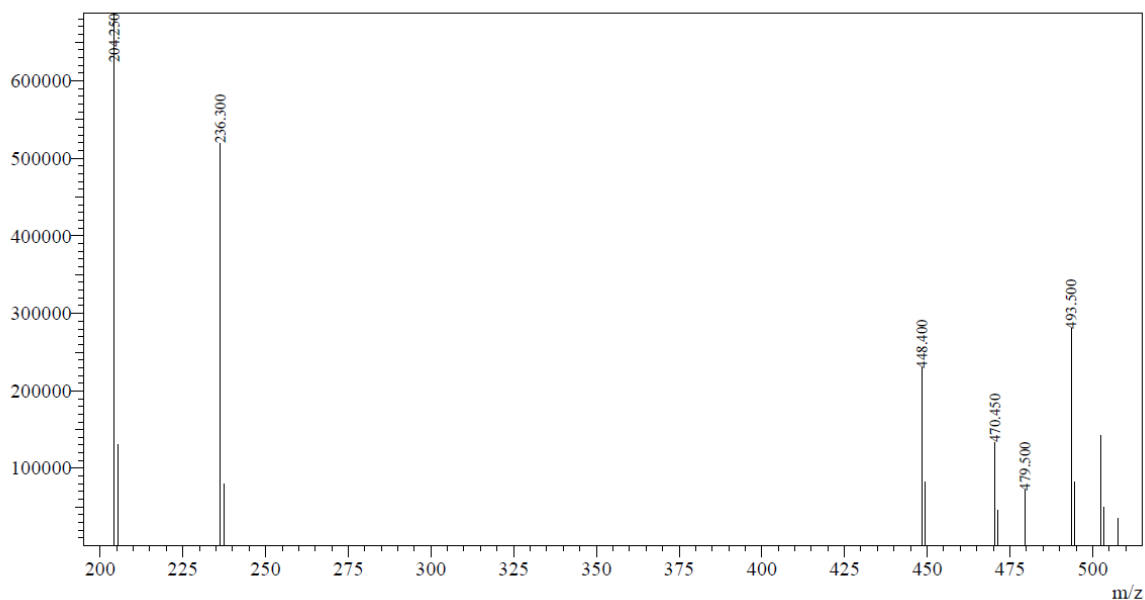


Fig.S30: Mass spectrum of compound 2e

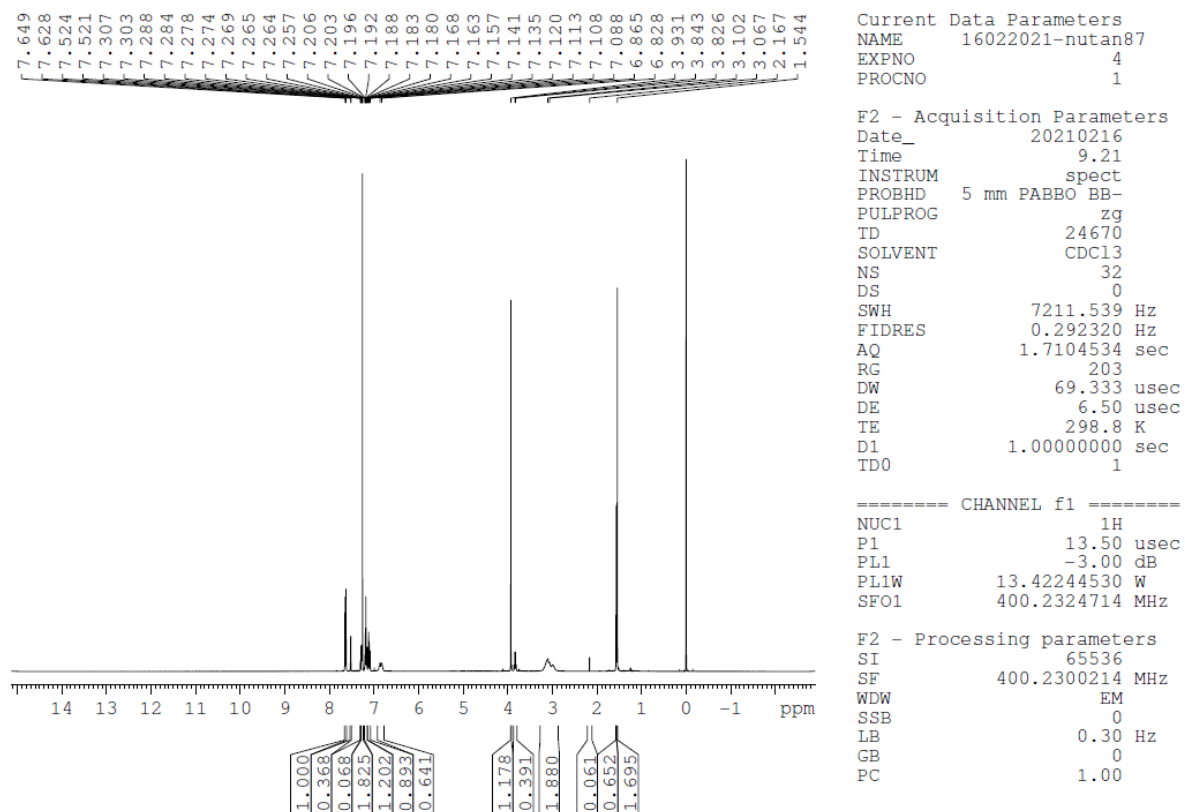


Fig. S31: ¹H NMR spectrum of compound 3a

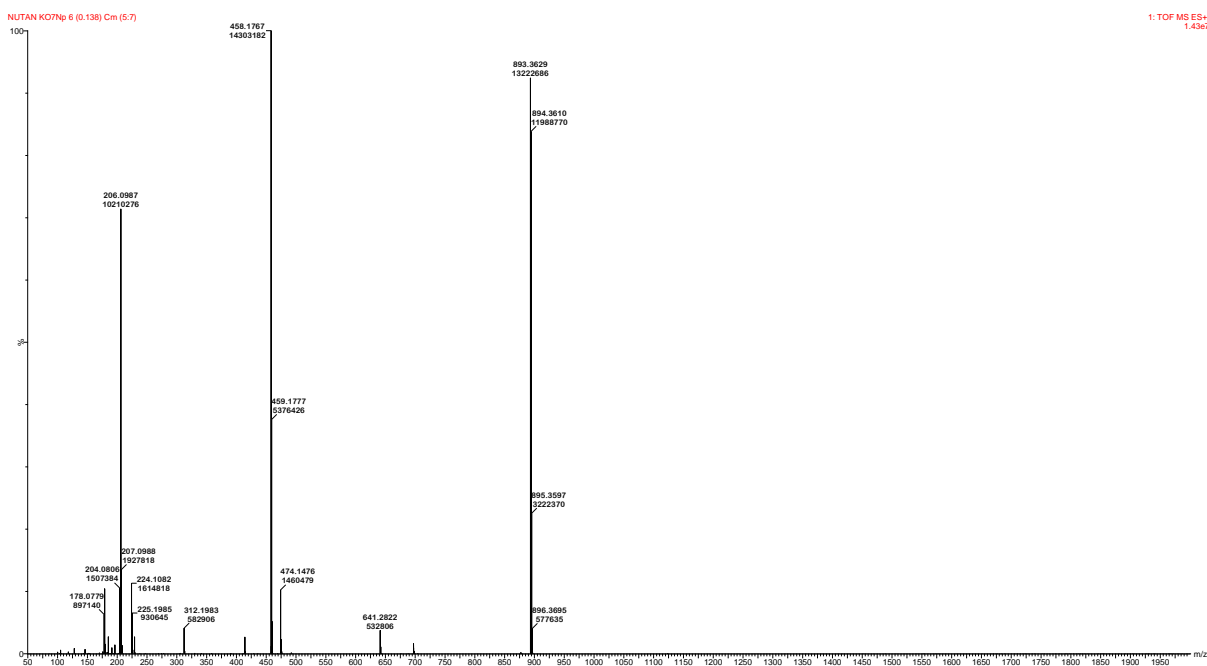


Fig. S32: Mass spectrum of compound 3a

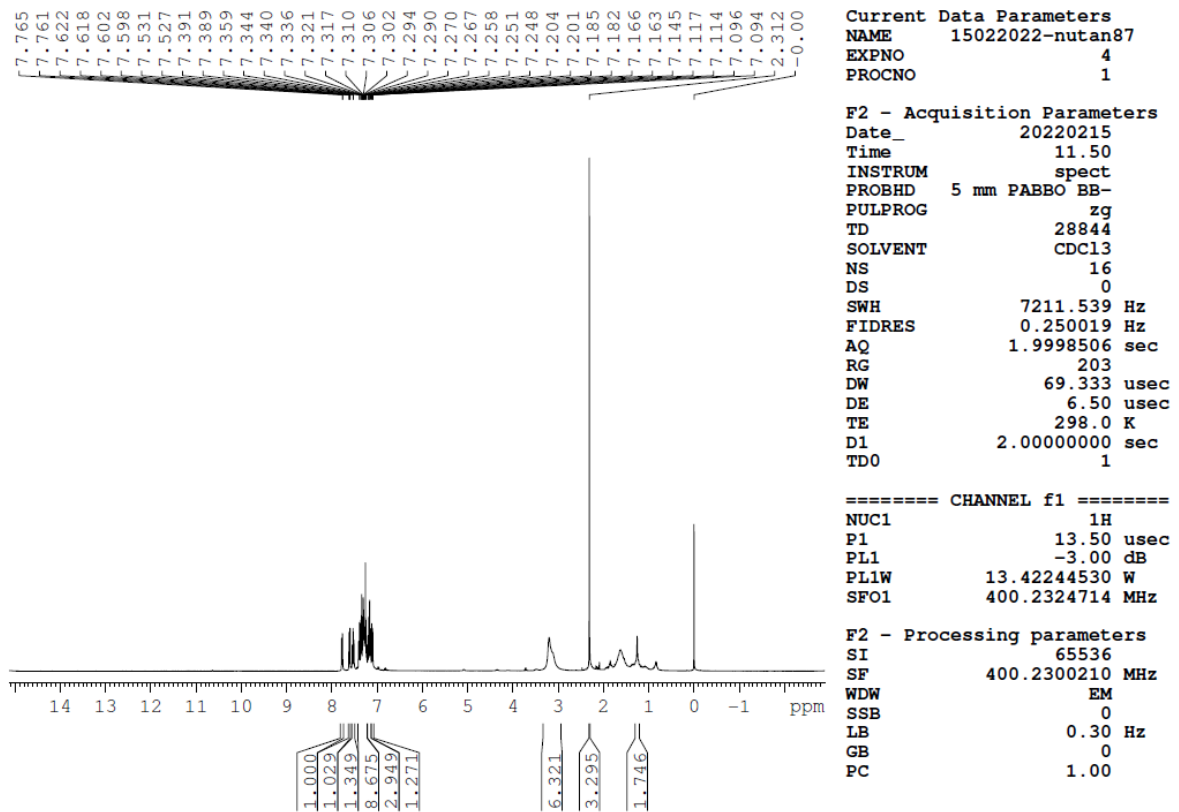


Fig. S33: ¹H NMR spectrum of compound 3b

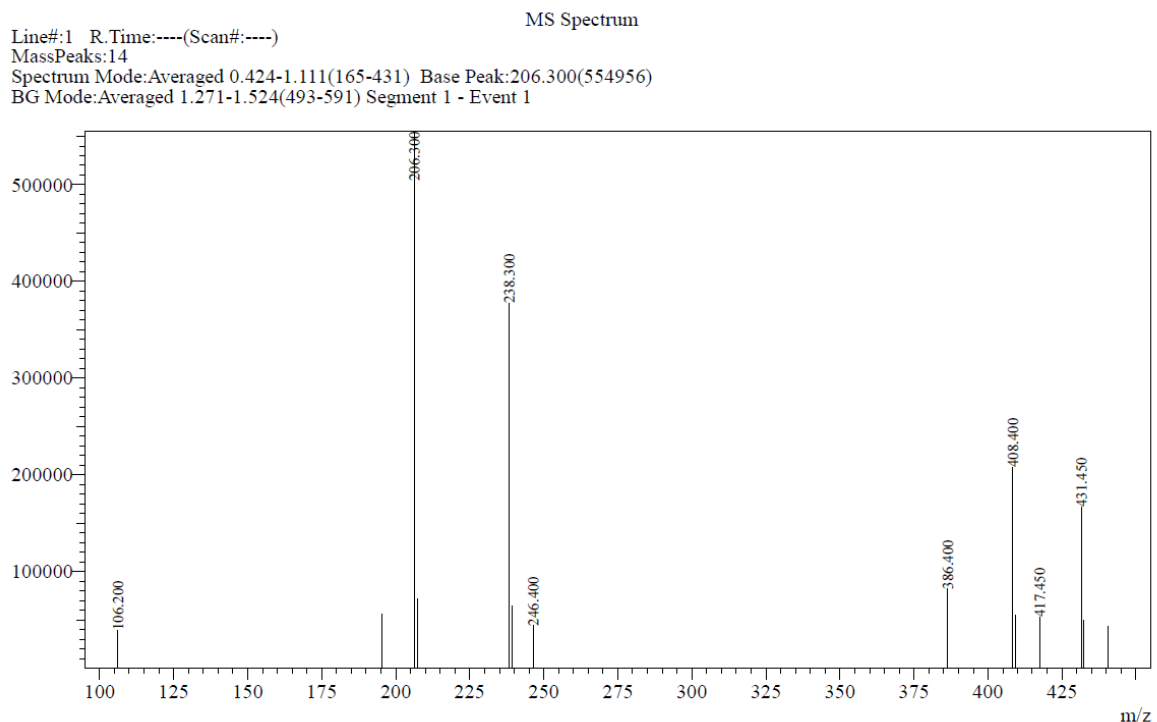


Fig. S34: Mass spectrum of compound 3b

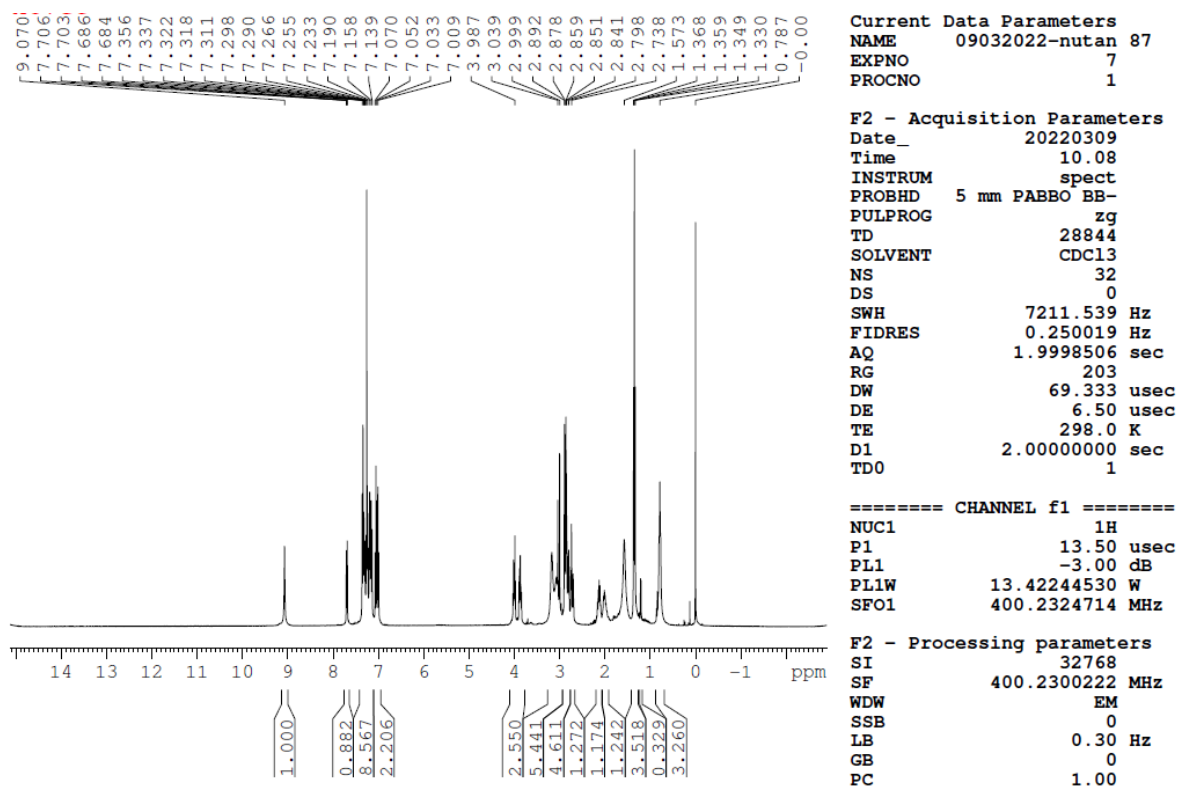


Fig. S35: ¹H NMR spectrum of compound 3c

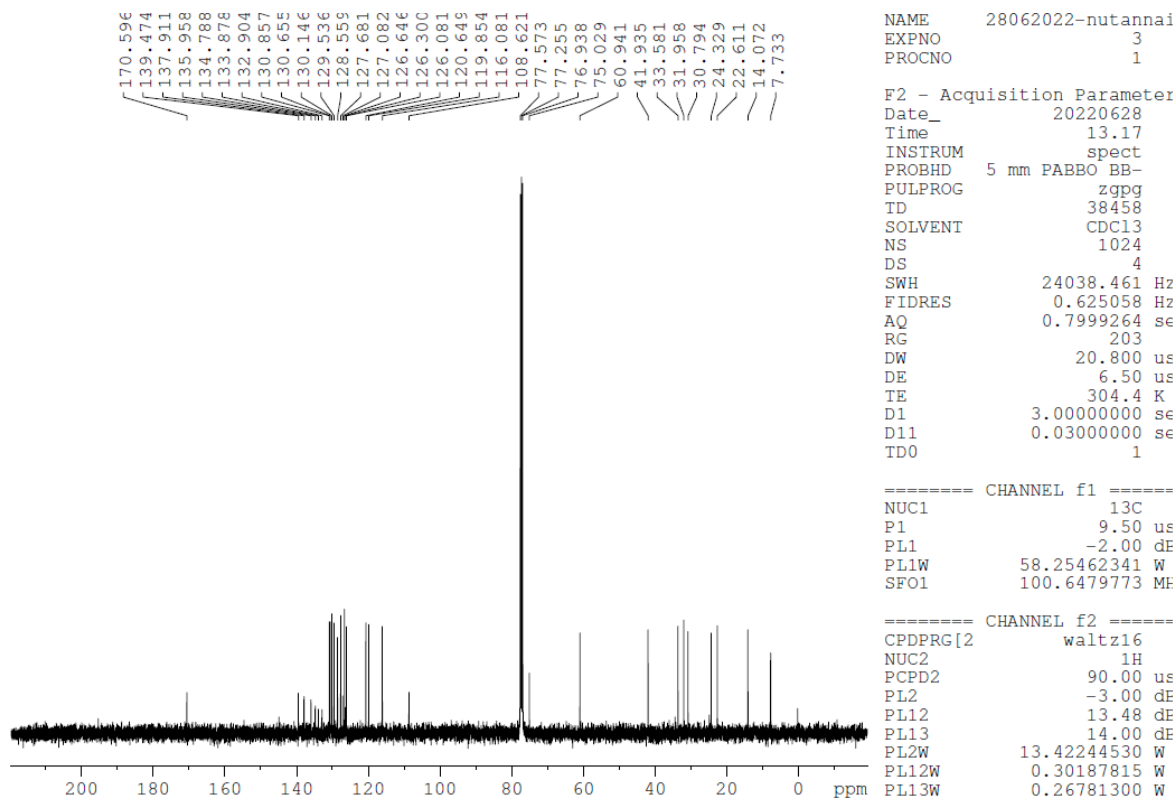


Fig. S36: ¹³C NMR spectrum of compound 3c

Line#:1 R.Time:----(Scan#:----)
 MassPeaks:12
 Spectrum Mode:Averaged 0.377-1.132(147-439) Base Peak:238.350(636496)
 BG Mode:Averaged 1.338-1.700(519-659) Segment 1 - Event 1

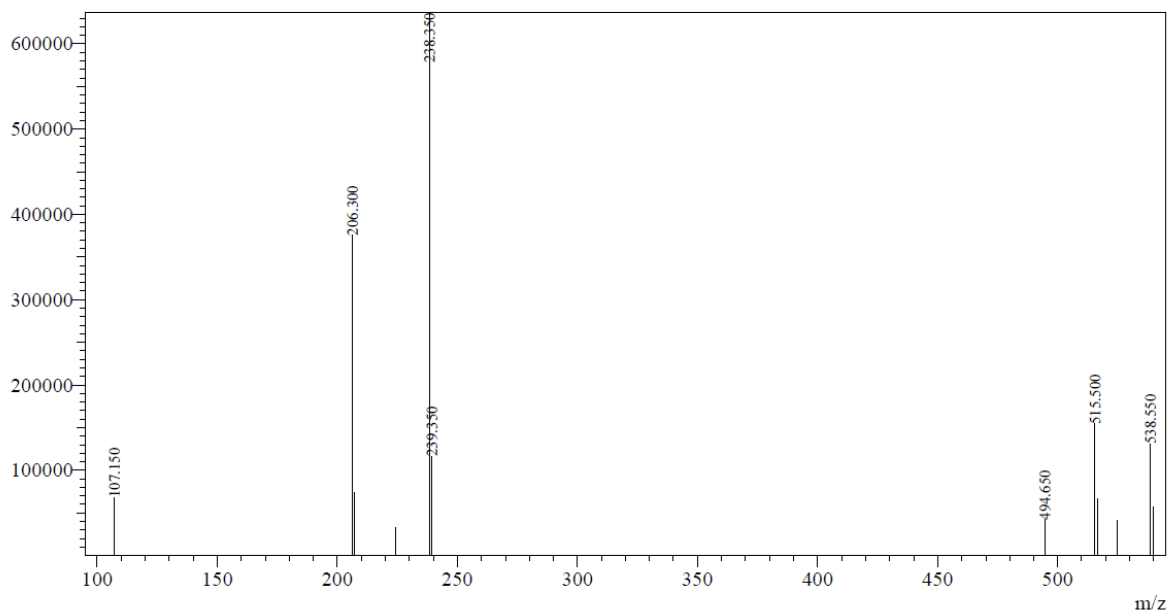


Fig. S37: Mass spectrum of compound 3c

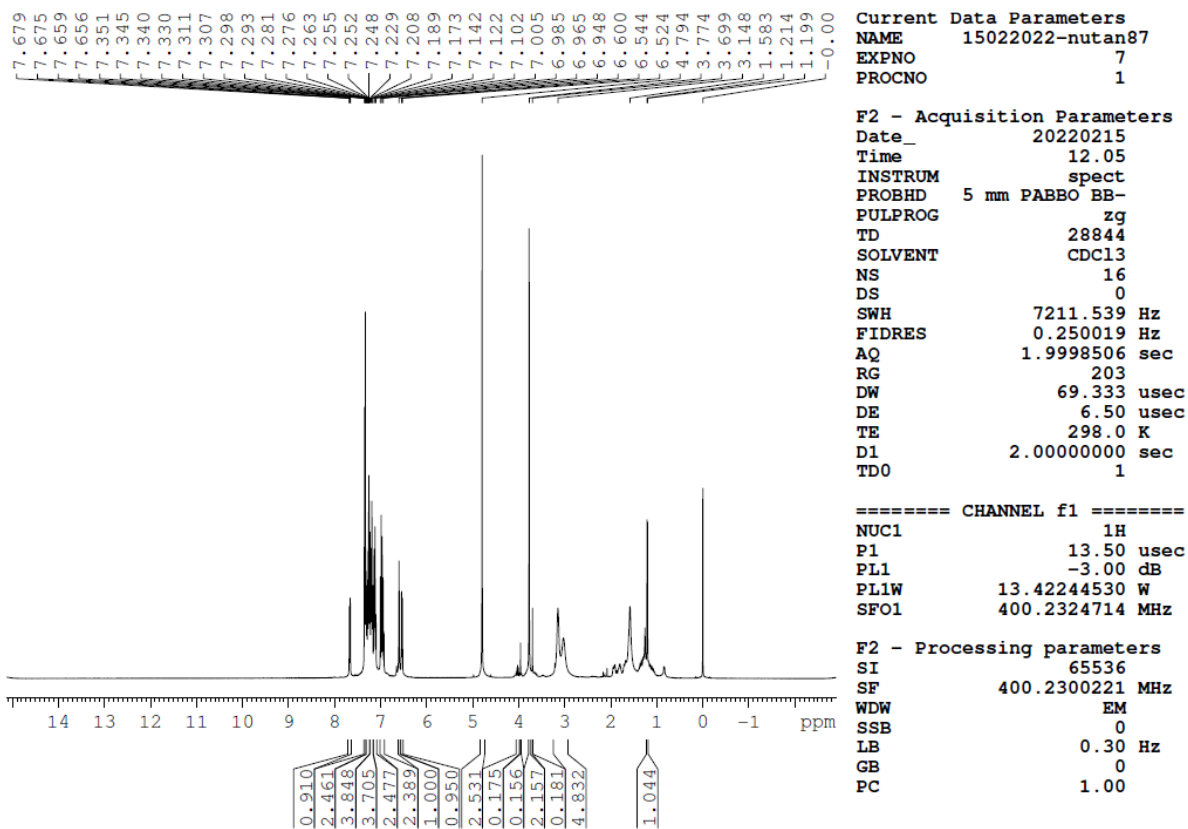


Fig. S38: ¹H NMR spectrum of compound 3d

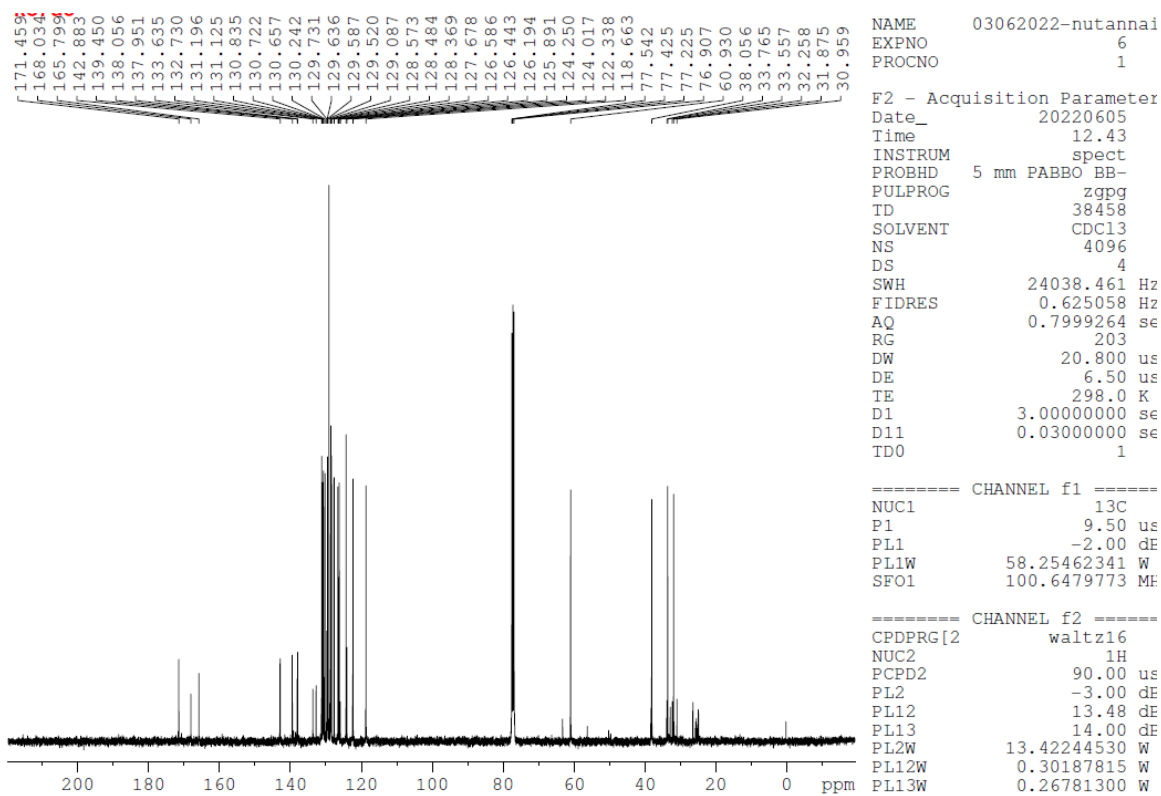


Fig. S39: ¹³C NMR spectrum of compound 3d

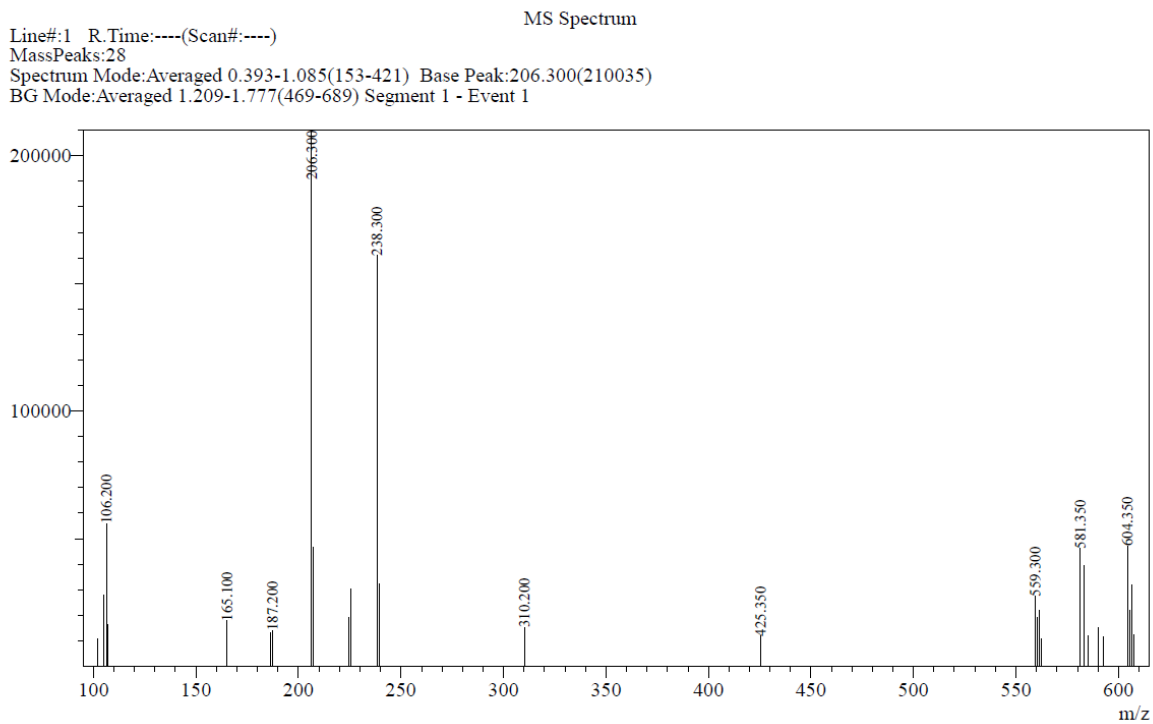


Fig. S40: Mass spectrum of compound 3d

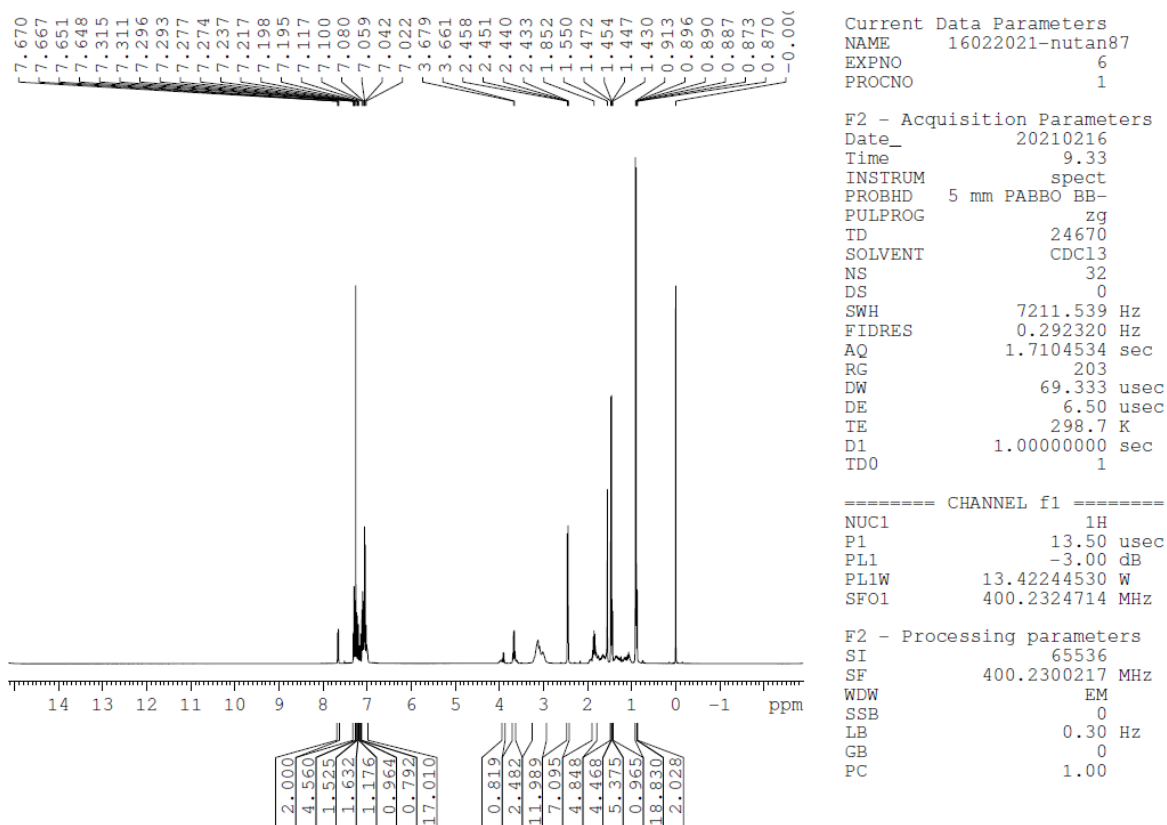


Fig. S41: ¹H NMR spectrum of compound 3e

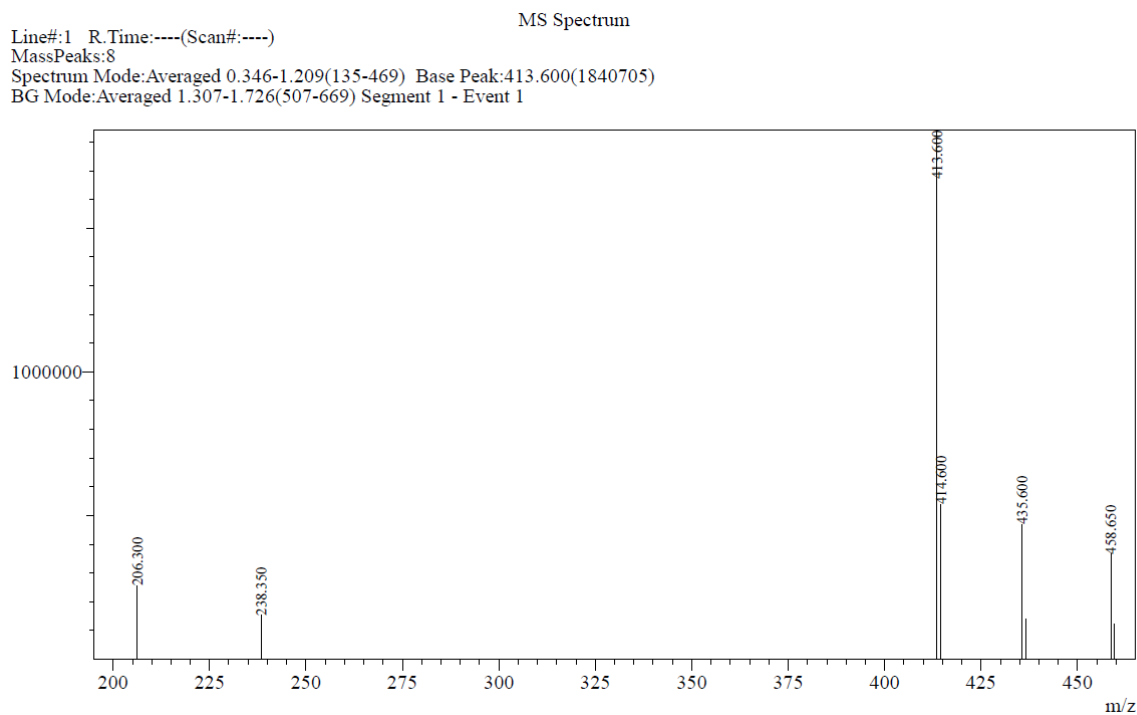


Fig. S42: Mass spectrum of compound 3e

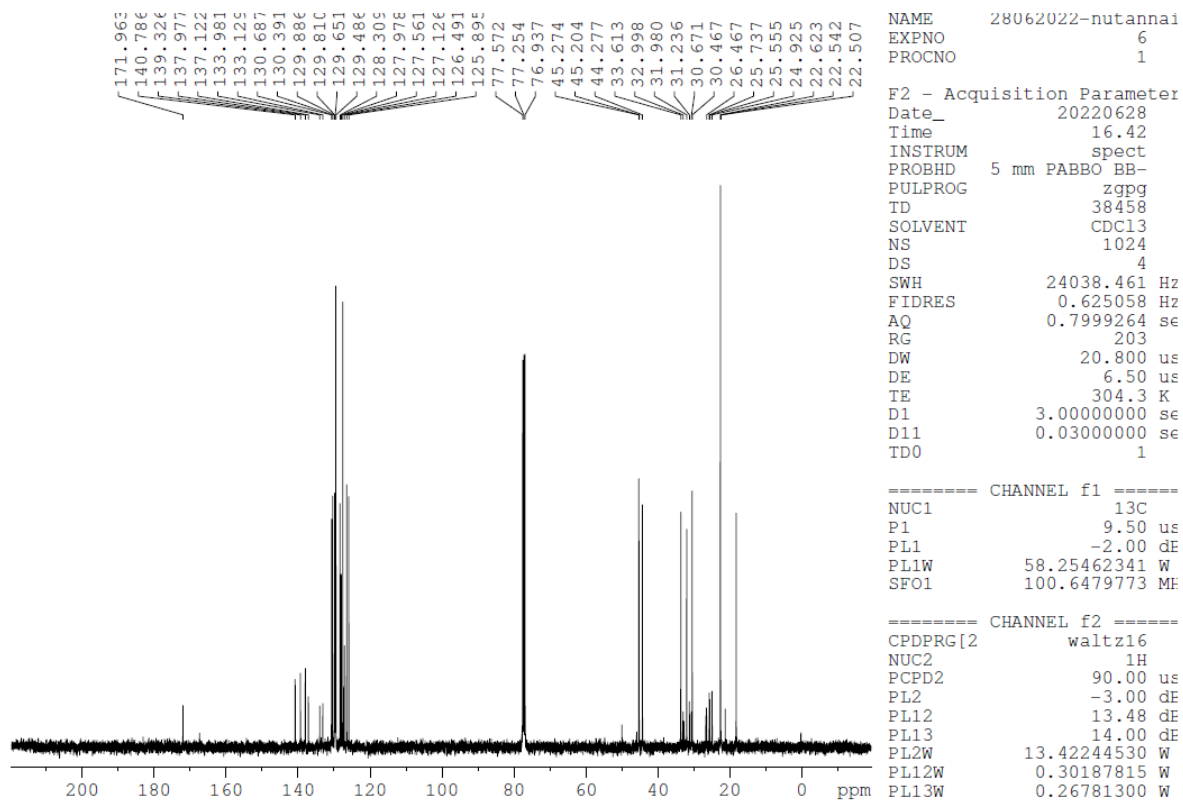


Fig. S43: ¹³C NMR spectrum of compound 3e