

Supplementary Material

Structural characterization of strained oxacycles by ^{13}C NMR spectroscopy

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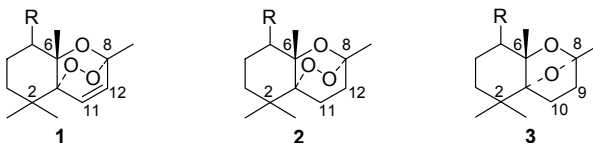
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Dedicated to Professor Manuel González Sierra in honor of his leading work in the field of NMR spectroscopy

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Table 1. ^{13}C NMR chemical shifts δ (ppm) and assignments for compounds **1a–g**, **2a–g** and **3a–g**.



Compound	C-1	C-2	C-3	C-4	C-5	C-6	C-8	C-9(12)	C-10(11)	C2-CH _{3ax}	C2-CH _{3eq}	C6-CH ₃	C8-CH ₃	CO	COCH ₃
1a	82.1	35.5	34.5	19.2	34.5	78.0	94.6	133.3	128.5	24.3	26.5	25.4	20.8	-	-
1b	82.8	35.1	28.8	25.5	71.1	78.4	94.8	133.2	128.9	26.0	26.0	24.1	20.4	-	-
1c	83.1	35.5	33.6	26.7	73.7	80.8	94.9	133.3	128.6	24.5	26.0	19.4	20.7	-	-
1d	80.9	34.9	29.6	23.5	70.7	77.3	94.2	133.3	128.6	24.0	26.1	26.1	20.5	171.4	21.4
1e	83.0	35.3	33.2	24.9	76.2	78.8	94.7	133.8	128.0	20.4	26.0	24.3	20.5	170.2	21.3
1f	85.1	35.5	34.7	34.5	207.6	82.9	95.2	134.8	126.1	24.4	25.5	24.4	20.4	-	-
1g	81.7	33.9	37.3	125.4	129.1	77.1	95.5	133.3	127.4	27.2	25.2	27.5	20.9	-	-
2a	80.6	37.2	35.7	19.2	36.4	77.9	96.7	30.0	19.7	24.6	25.9	25.7	23.3	-	-
2b	81.5	36.8	29.8	25.4	73.0	78.3	97.2	29.6	20.3	24.7	25.6	26.0	23.1	-	-
2c	81.8	37.3	34.4	26.4	74.1	80.8	97.1	29.7	20.3	24.8	25.5	19.3	23.2	-	-
2d	79.5	36.6	30.5	23.5	72.6	77.0	96.2	29.8	20.4	24.5	25.6	26.3	23.0	171.3	21.5

2e	81.9	37.1	34.0	24.9	76.5	79.0	96.9	29.7	20.0	24.5	25.5	20.3	23.0	170.4	21.3
2f	84.0	36.9	34.8	34.6	208.8	82.3	98.1	29.7	19.8	25.2	24.8	23.8	22.8	-	-
2g	80.3	35.5	37.2	125.2	130.4	75.9	98.2	30.0	19.6	24.6	26.3	26.6	23.4	-	-
3a	92.0	34.3	39.1	19.6	37.8	81.5	107.4	37.4	25.0	23.9	26.0	22.9	19.7	-	-
3b	93.6	33.6	30.4	25.6	72.9	81.3	107.9	36.7	25.5	24.1	25.8	22.6	18.9	-	-
3c	93.5	34.3	36.1	26.8	76.5	85.4	108.3	37.2	25.8	24.0	25.7	15.1	19.7	-	-
3d	91.9	33.6	31.1	23.8	73.4	79.7	107.5	37.1	25.4	23.7	25.8	23.2	18.9	170.4	21.5
3e	93.7	34.1	35.6	24.7	78.7	83.3	108.4	37.2	25.4	23.8	25.6	16.2	19.4	170.4	21.3
3f	95.5	33.9	36.4	35.2	210.6	85.5	107.9	37.4	24.3	22.9	25.2	20.1	18.7	-	-
3g	91.5	33.1	37.6	123.6	131.1	79.2	106.7	37.3	23.9	24.1	25.2	24.1	19.4	-	-

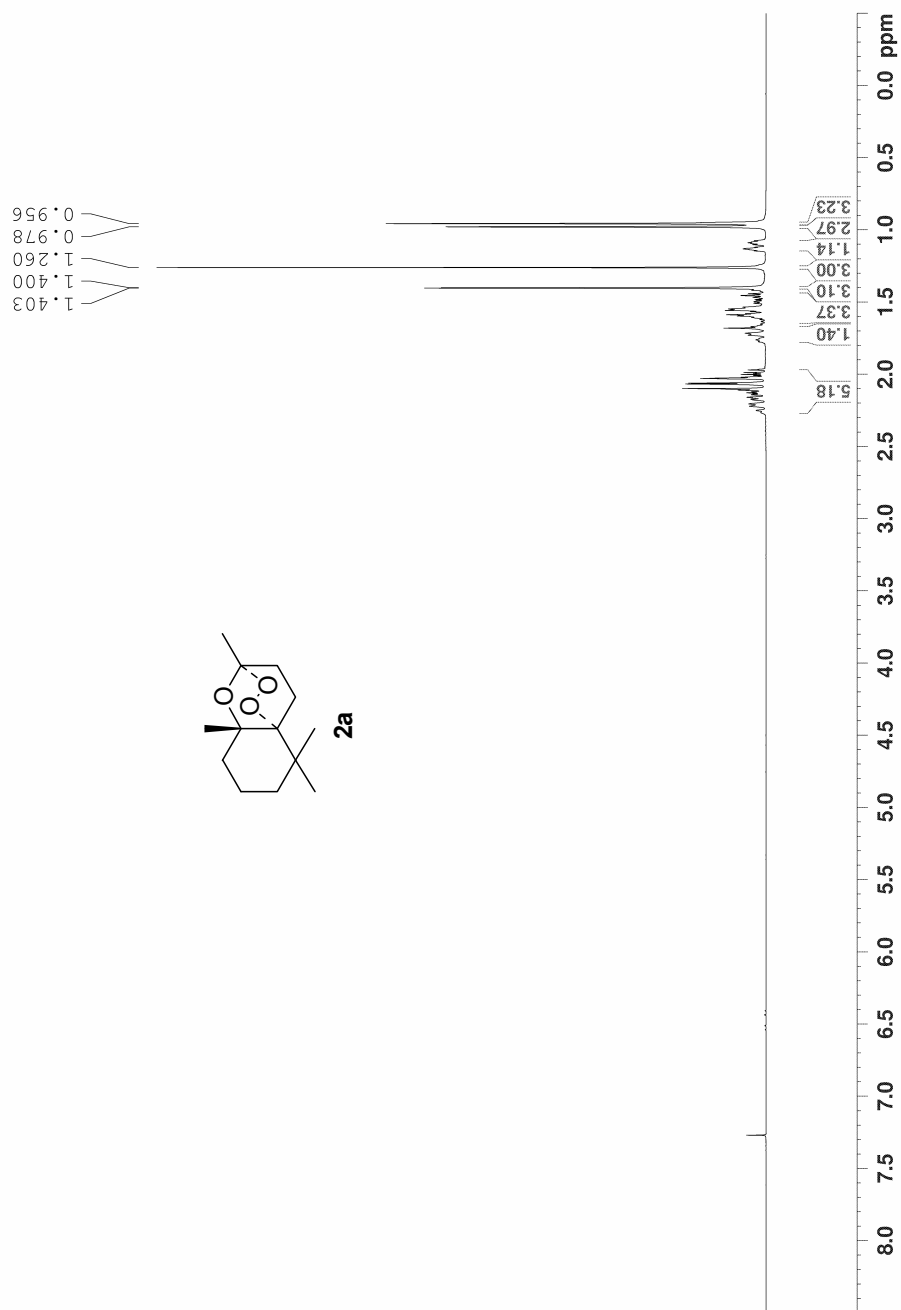


Figure S1. ^1H NMR Spectrum of compound **2a**.

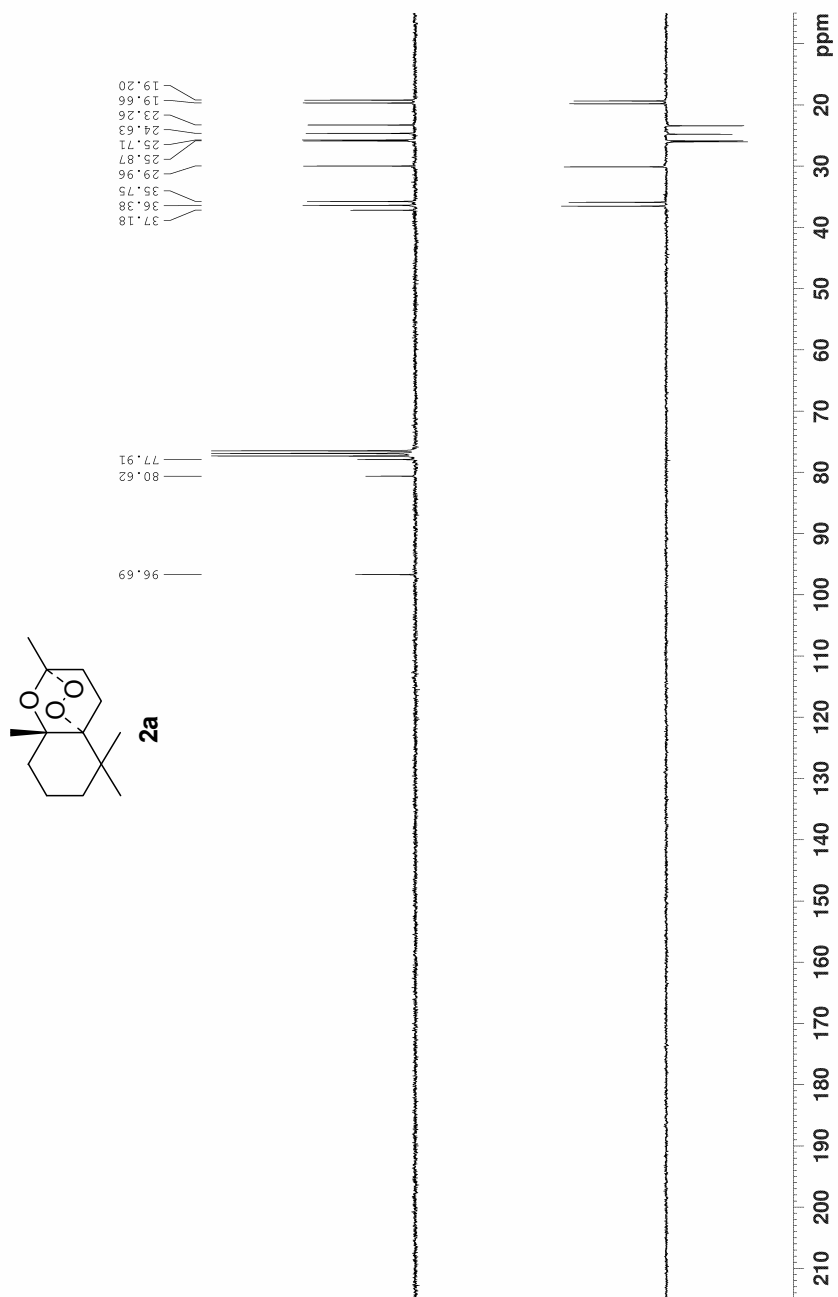


Figure S2. ^{13}C NMR Spectrum of compound **2a**.

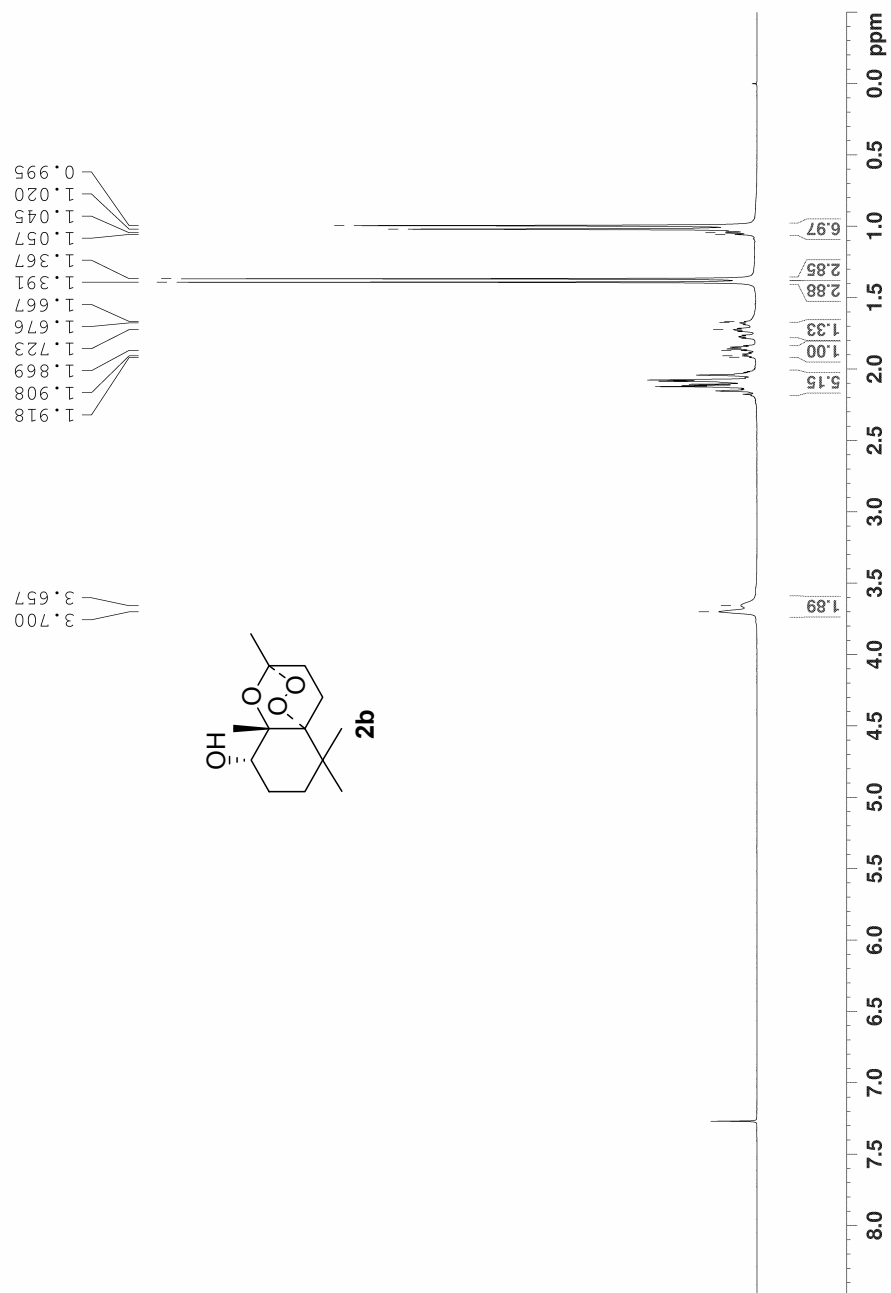


Figure S3. ¹H NMR Spectrum of compound **2b**.

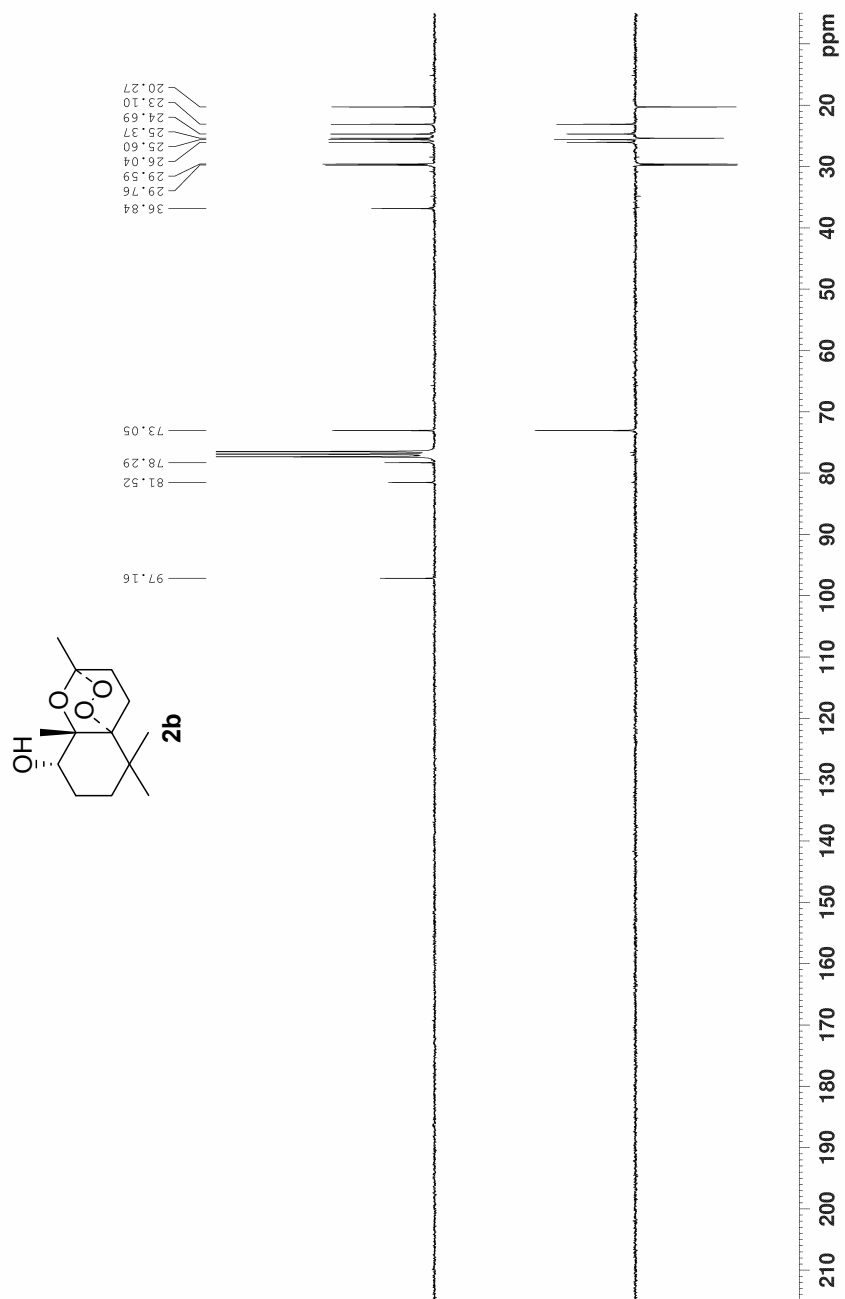


Figure S4. ¹³C NMR Spectrum of compound **2b**.

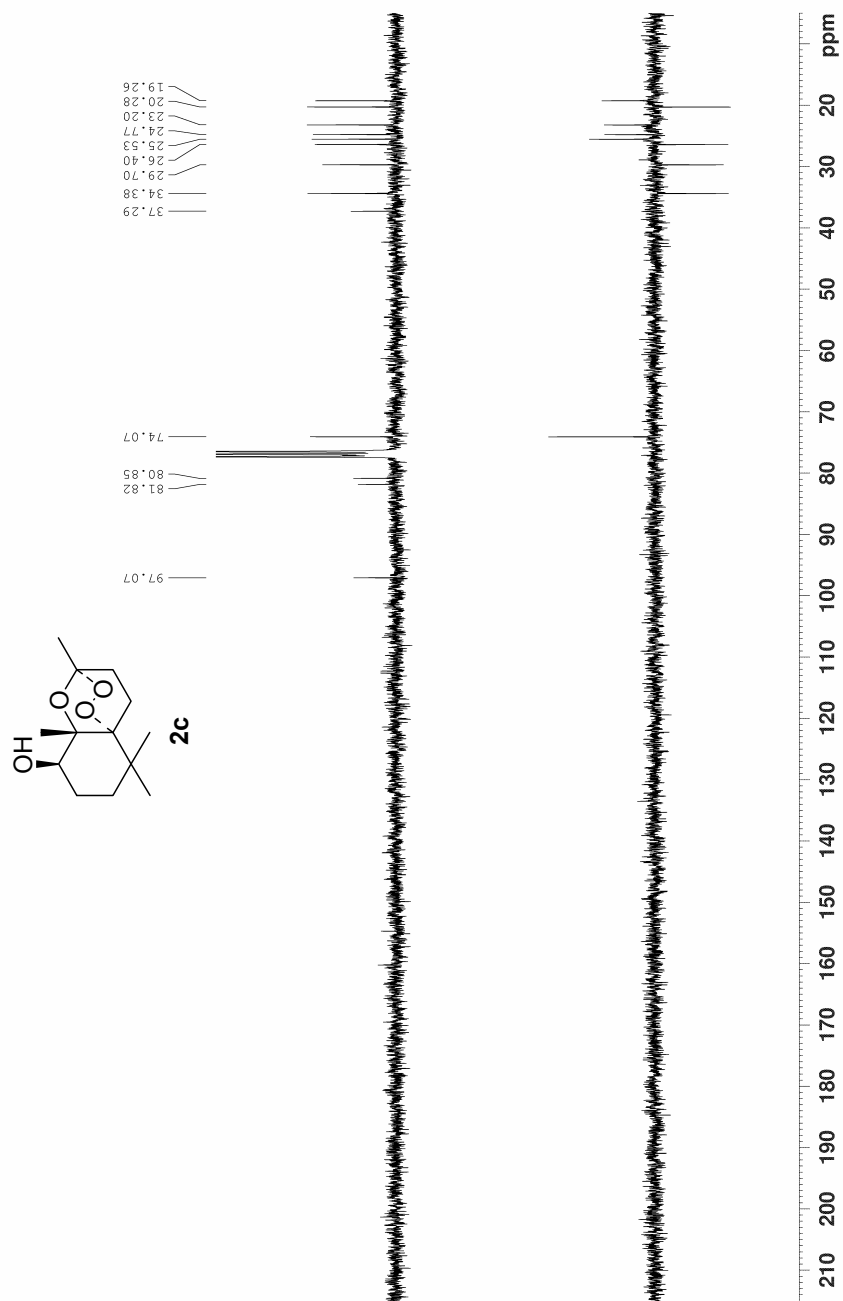


Figure S6. ^{13}C NMR Spectrum of compound **2c**.

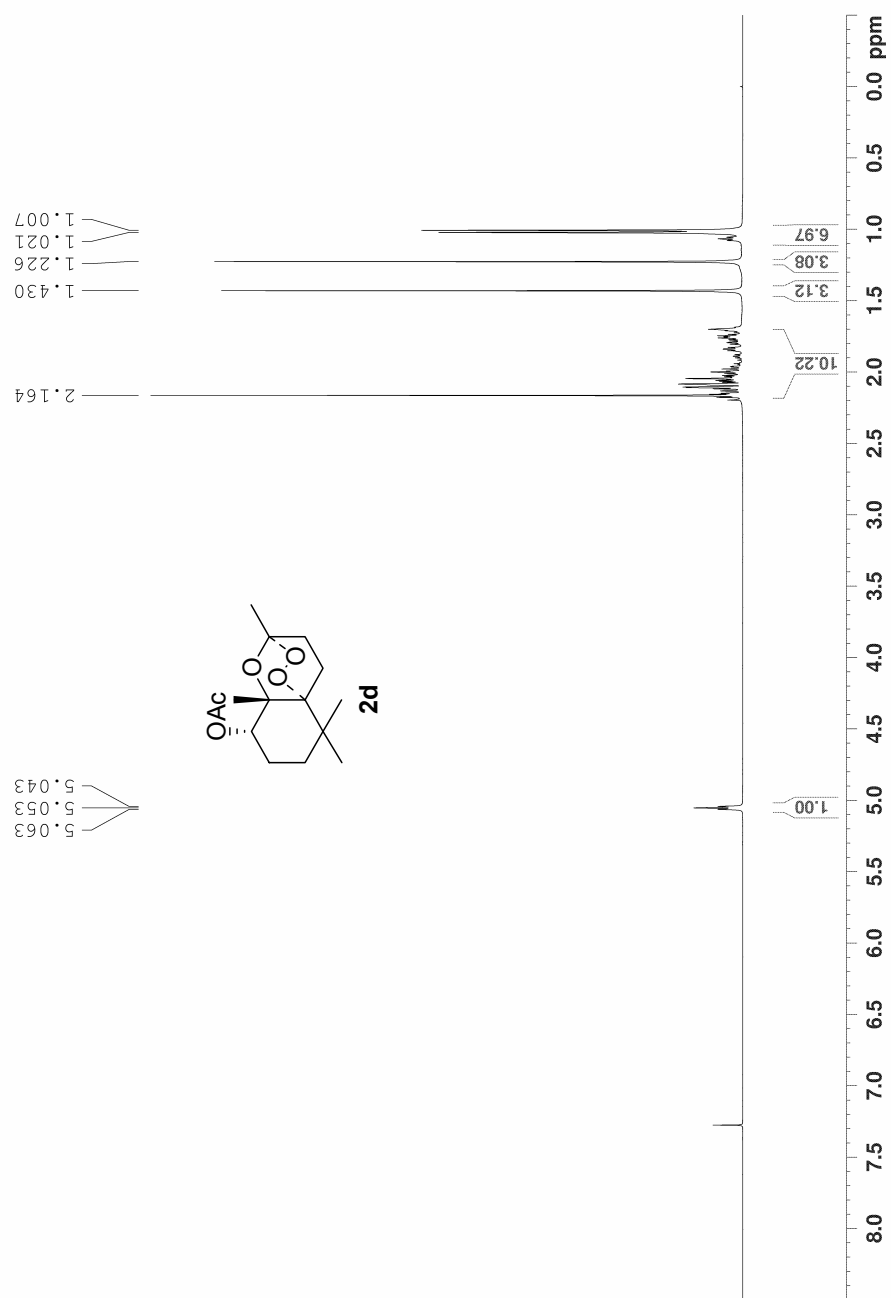


Figure S7. ^1H NMR Spectrum of compound **2d**.

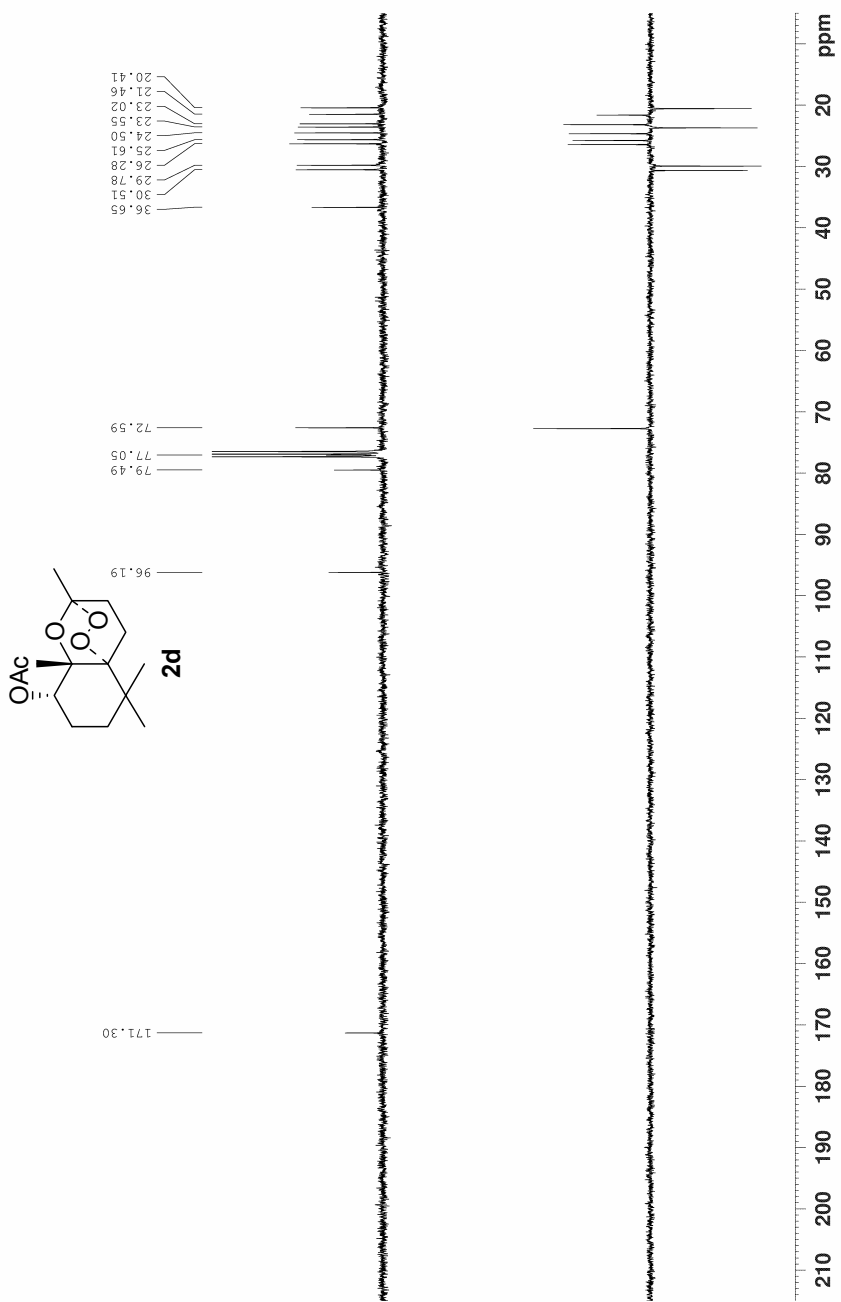


Figure S8. ^{13}C NMR Spectrum of compound **2d**.

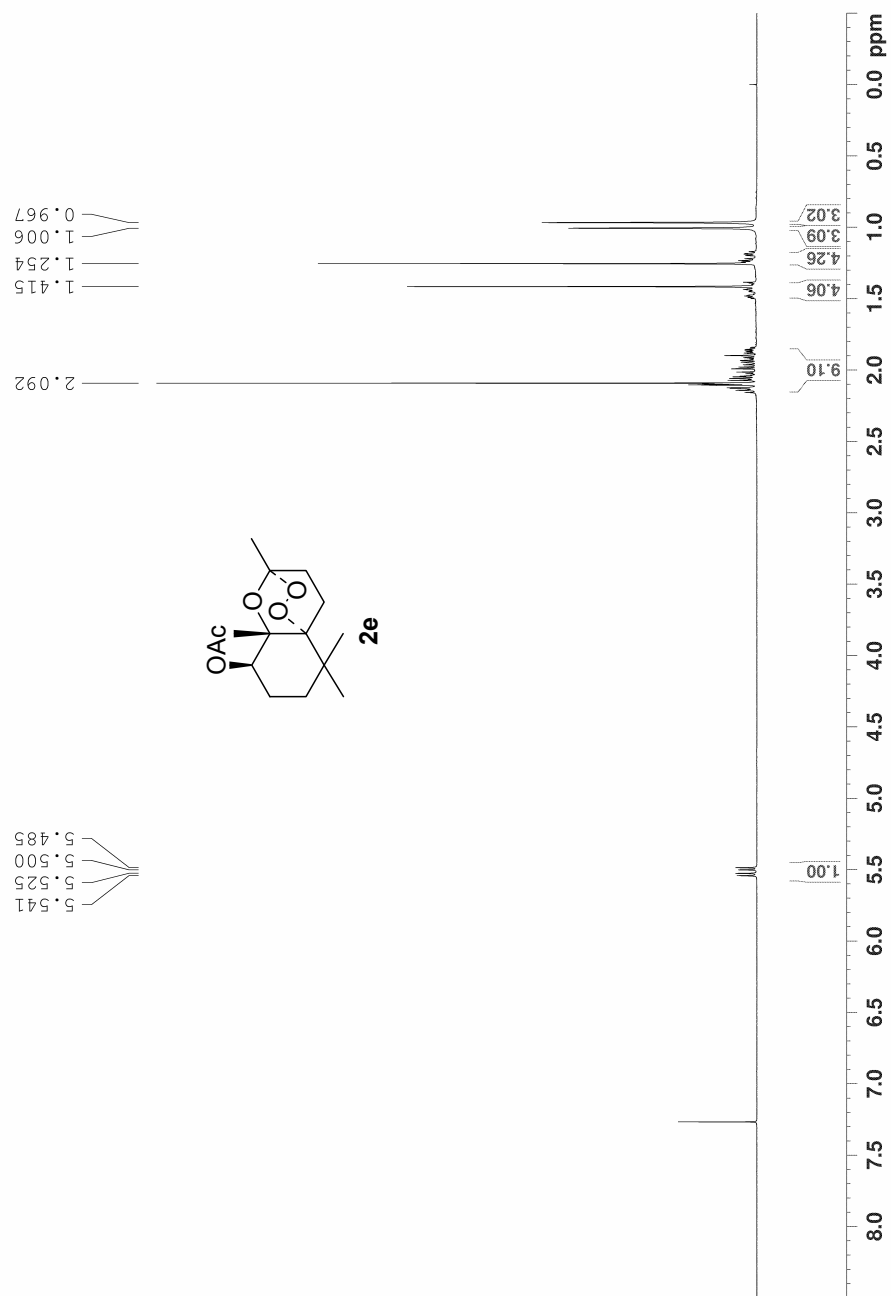


Figure S9. ¹H NMR Spectrum of compound **2e**.

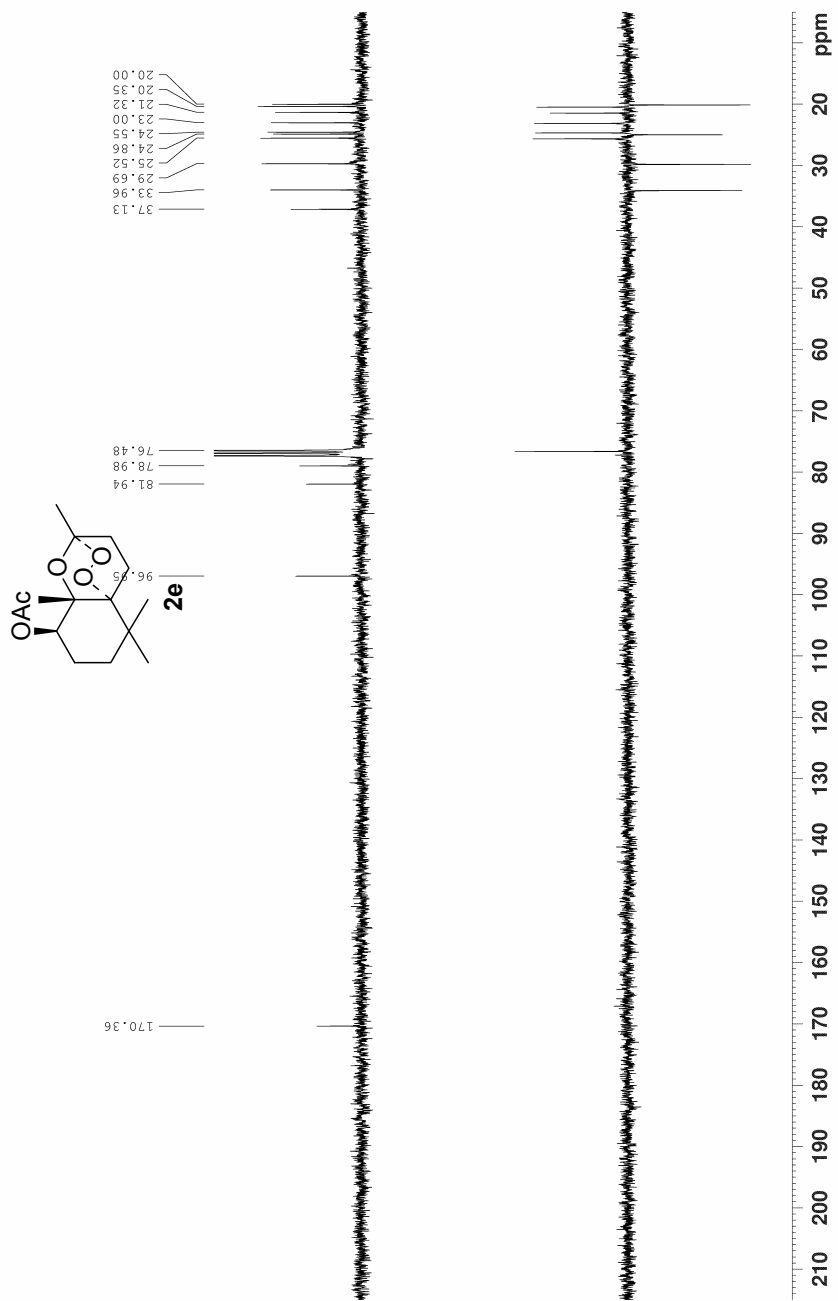


Figure S10. ¹³C NMR Spectrum of compound **2e**.

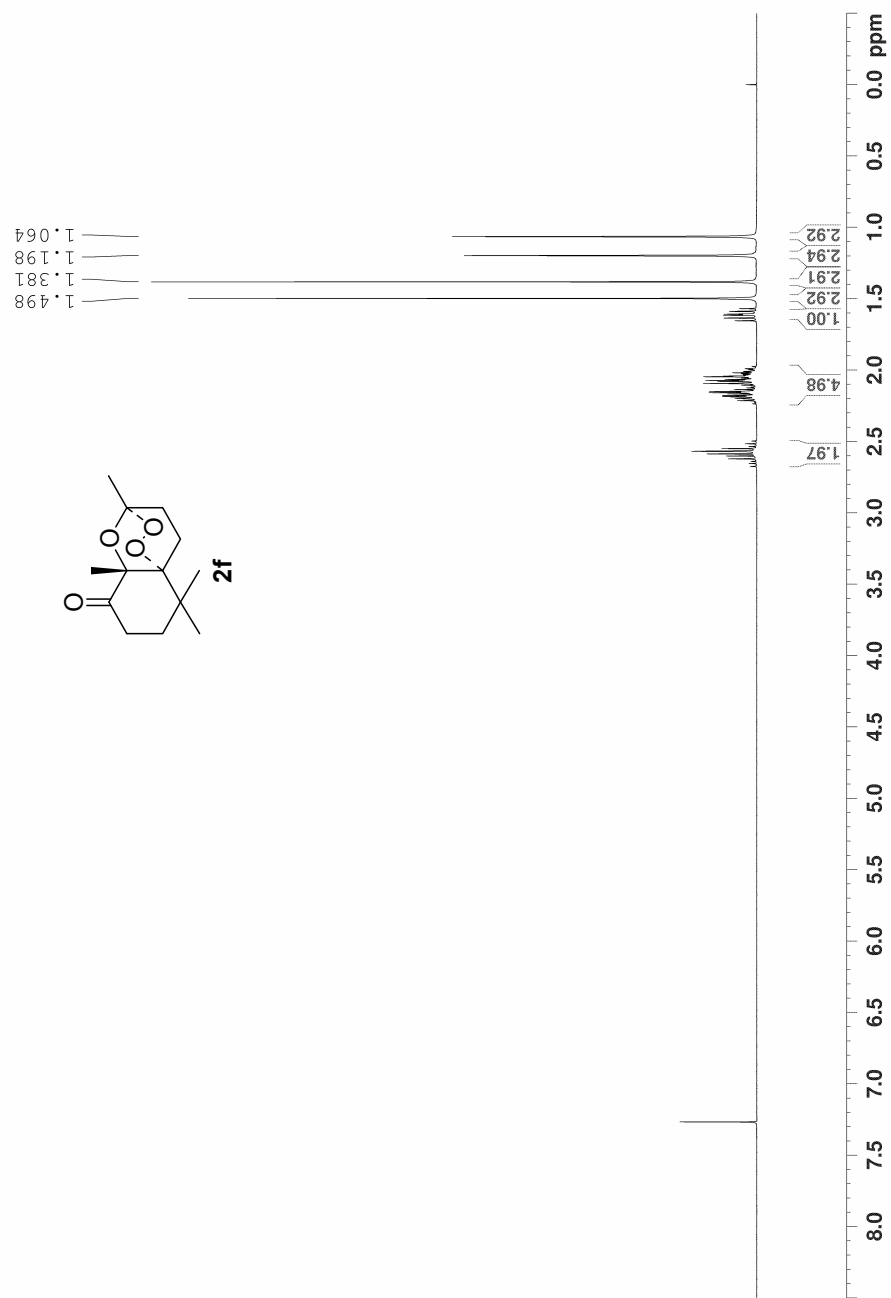


Figure S11. ¹H NMR Spectrum of compound **2f**.

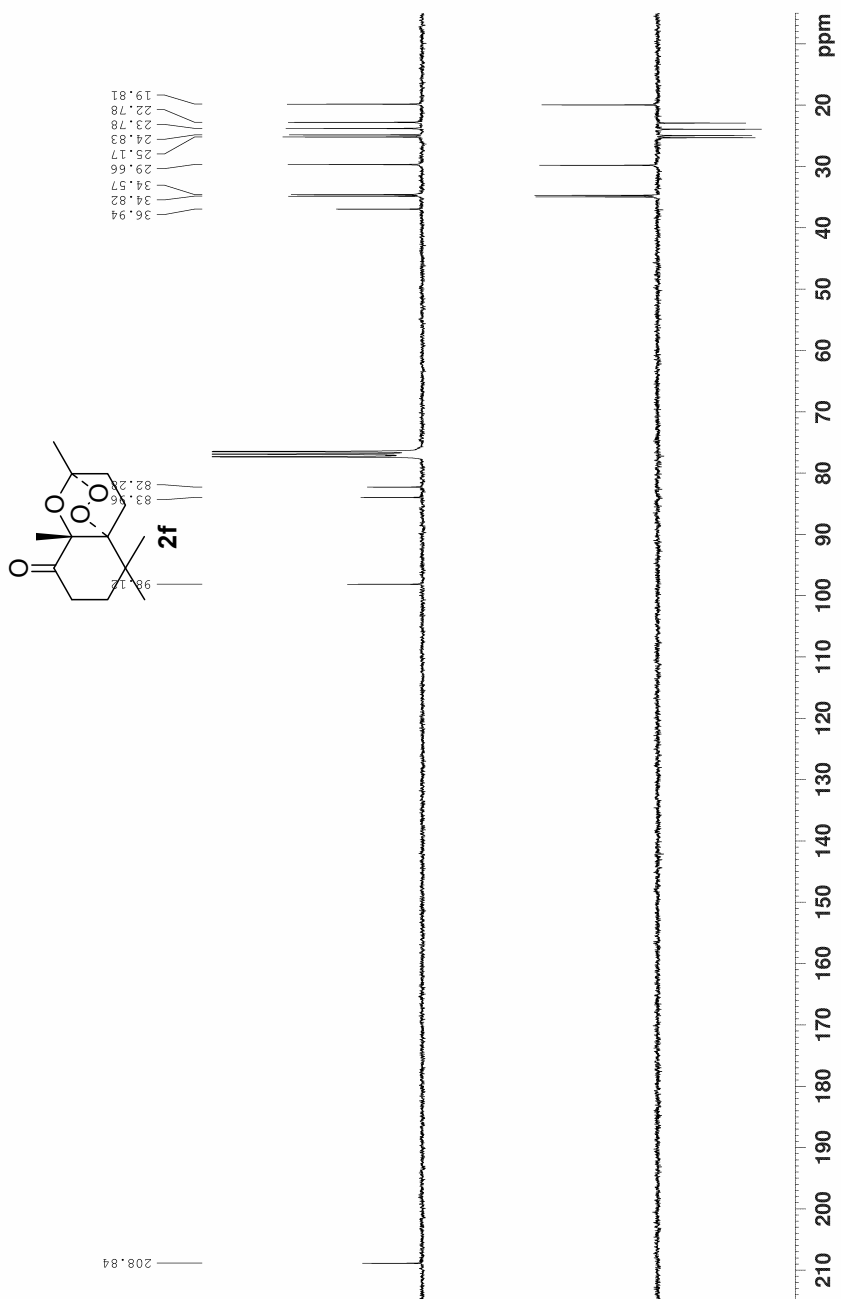


Figure S12. ^{13}C NMR Spectrum of compound **2f**.

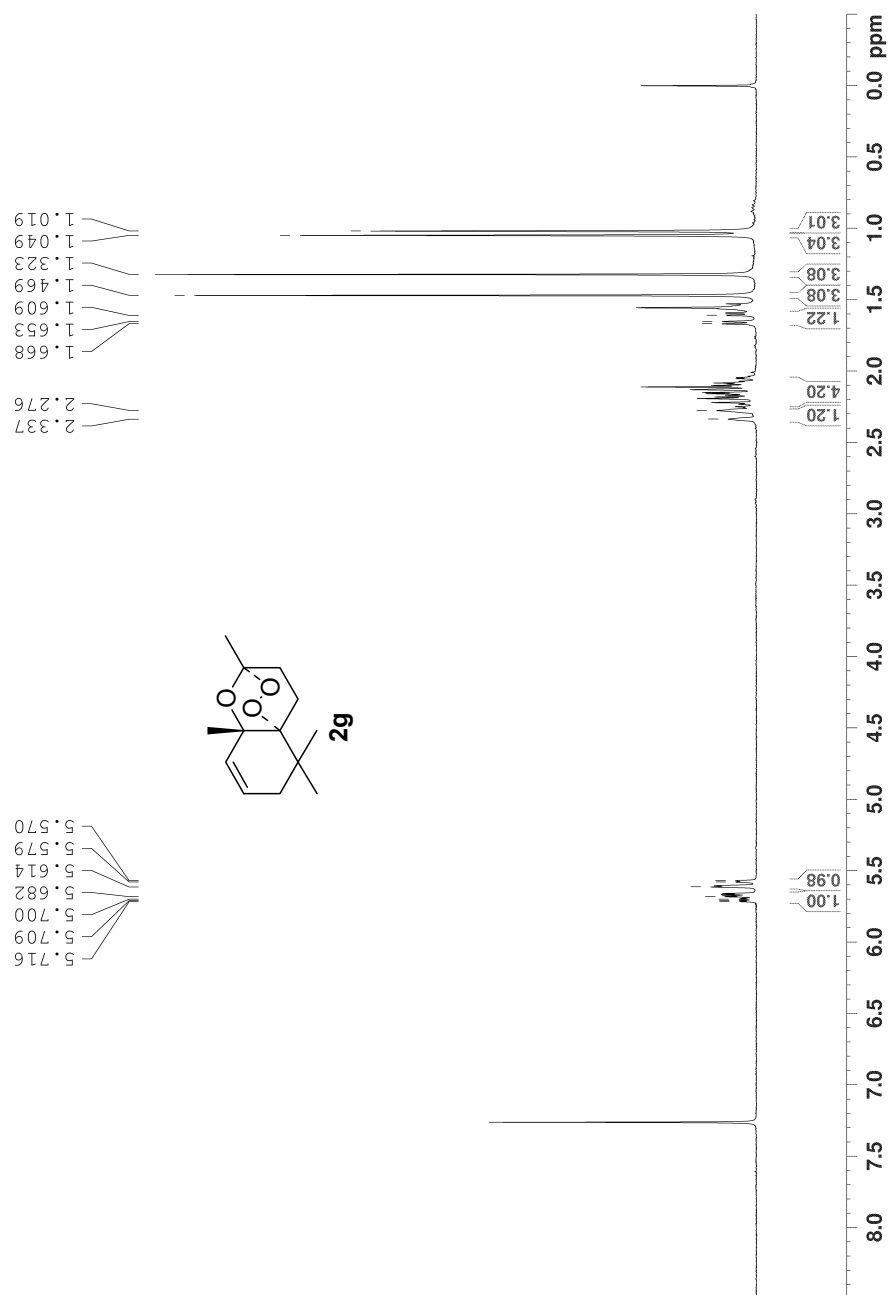


Figure S13. ^1H NMR Spectrum of compound 2g.

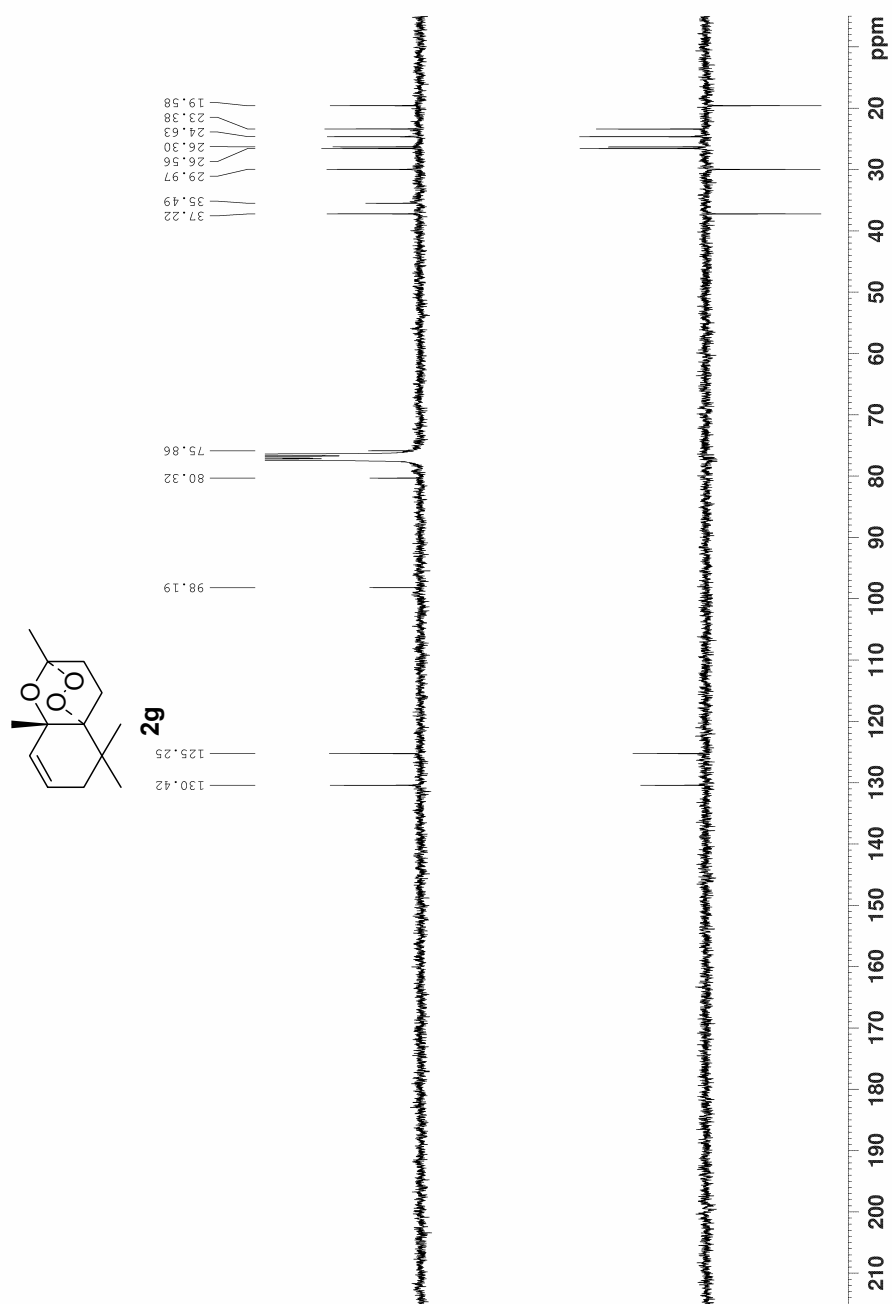


Figure S14. ^{13}C NMR Spectrum of compound **2g**.

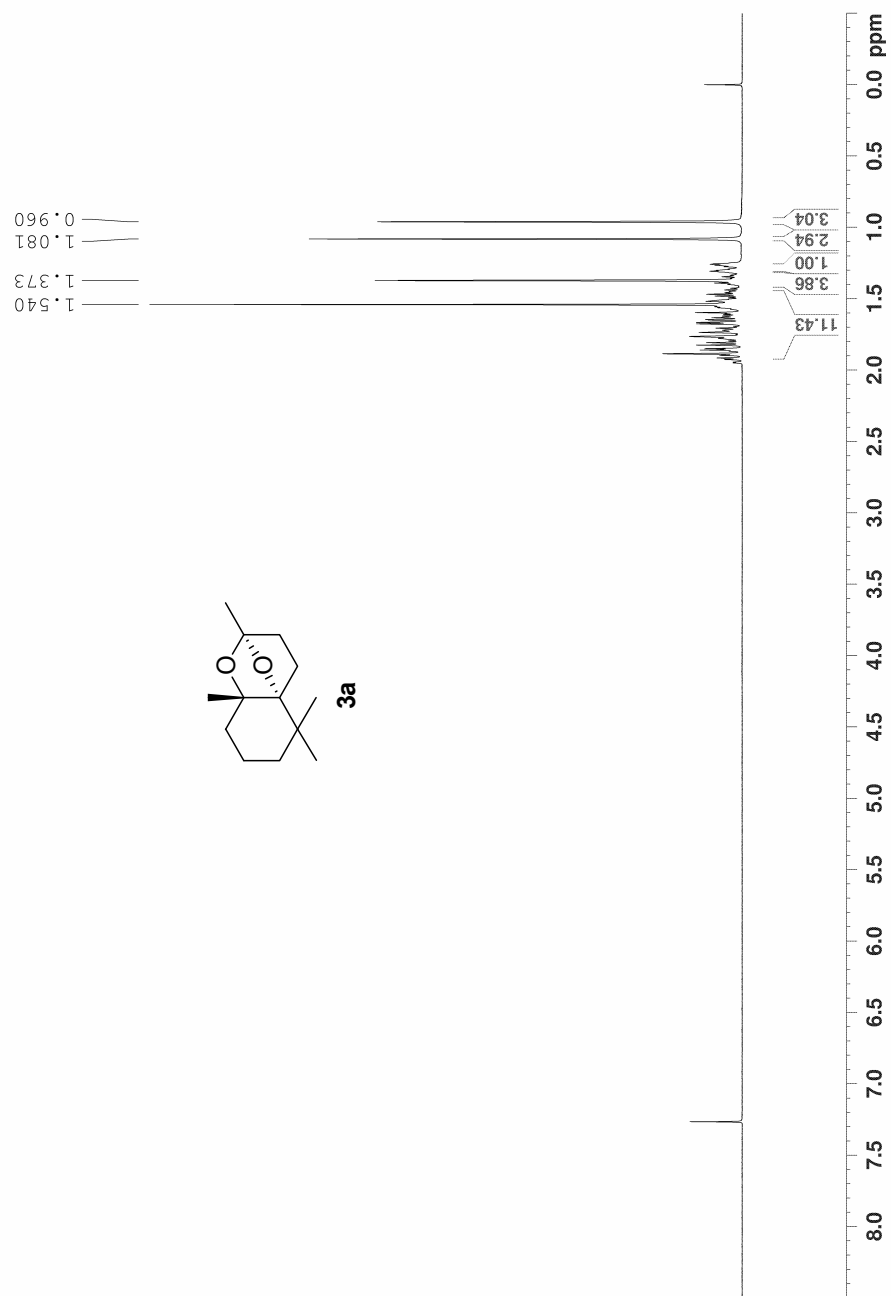


Figure S15. ^1H NMR Spectrum of compound **3a**.

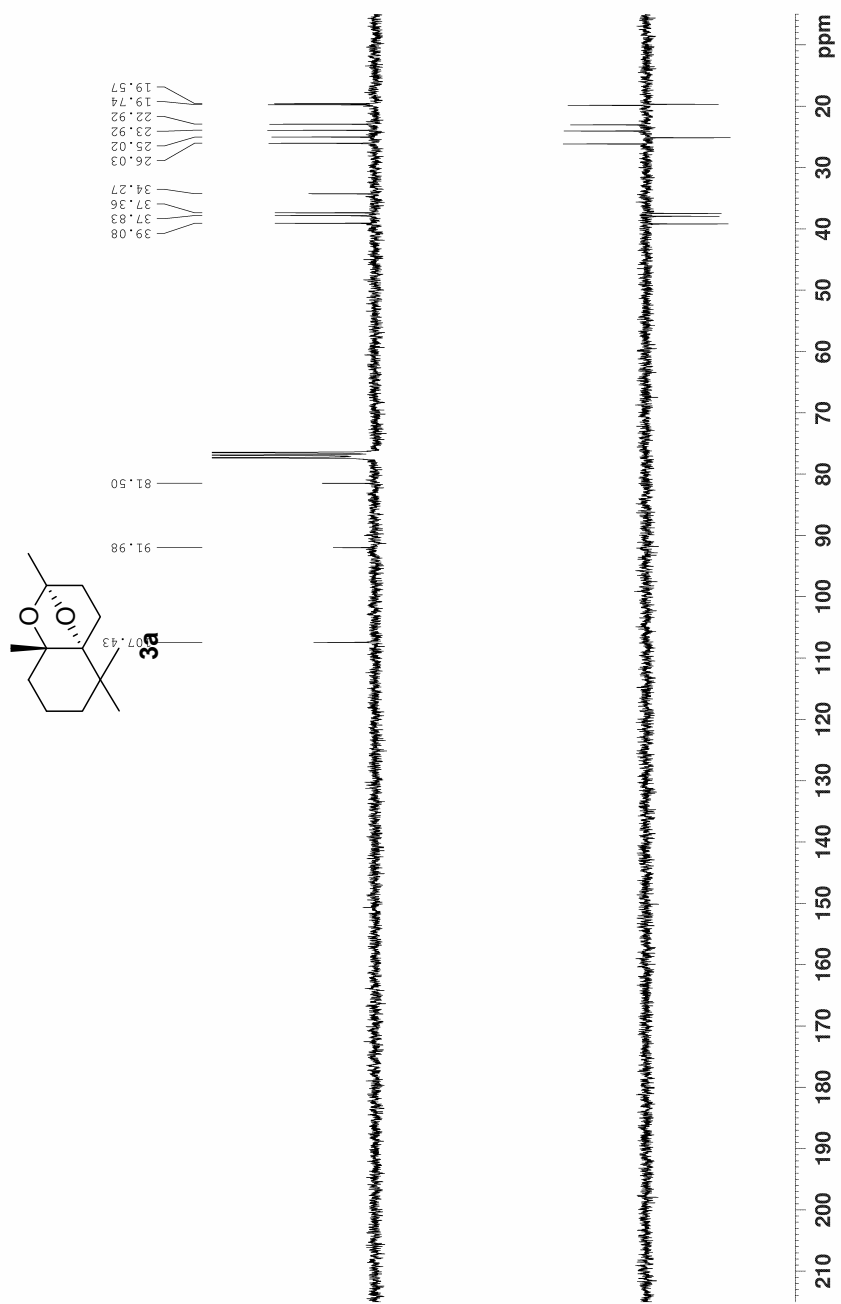


Figure S16. ^{13}C NMR Spectrum of compound **3a**.

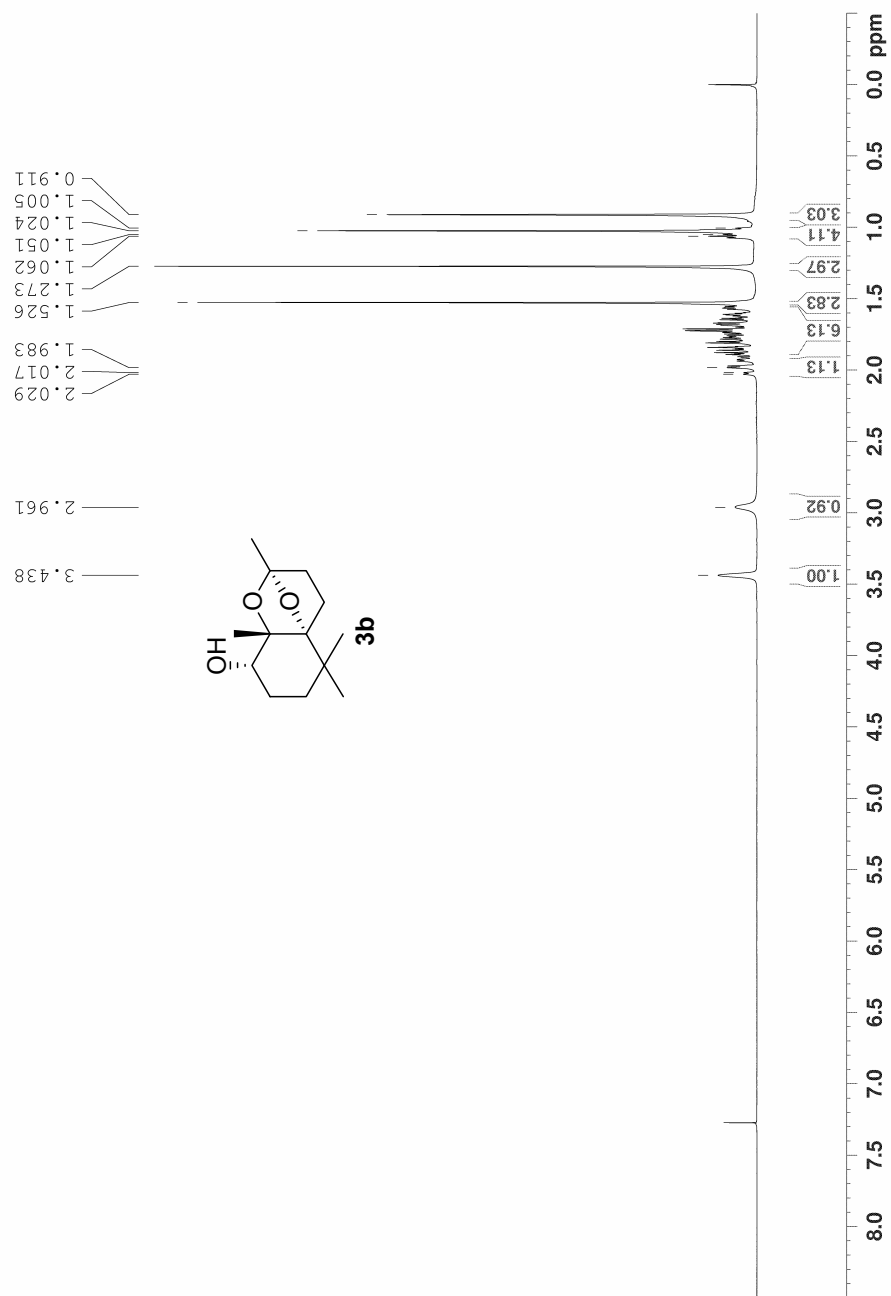


Figure S17. ^1H NMR Spectrum of compound **3b**.

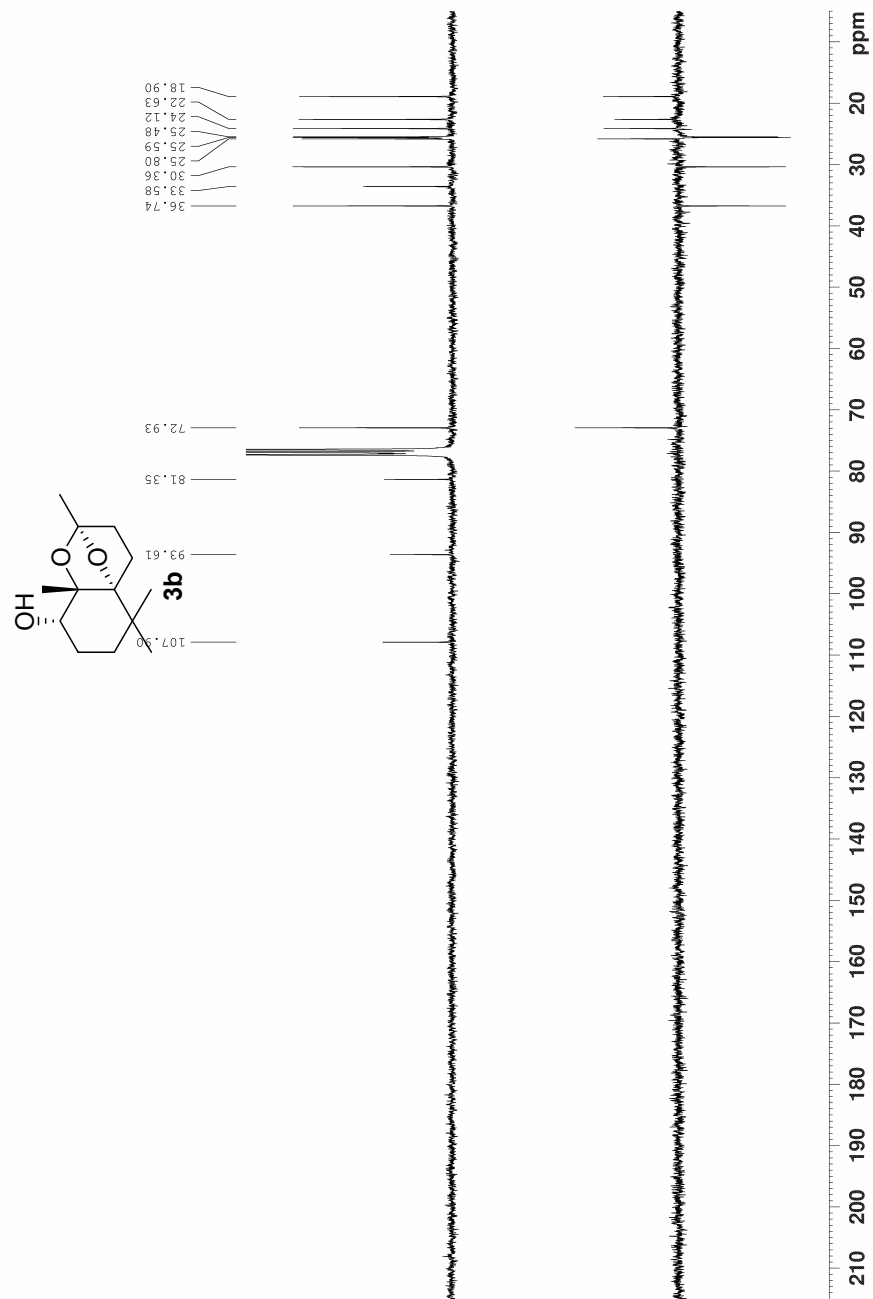


Figure S18. ^{13}C NMR Spectrum of compound **3b**.

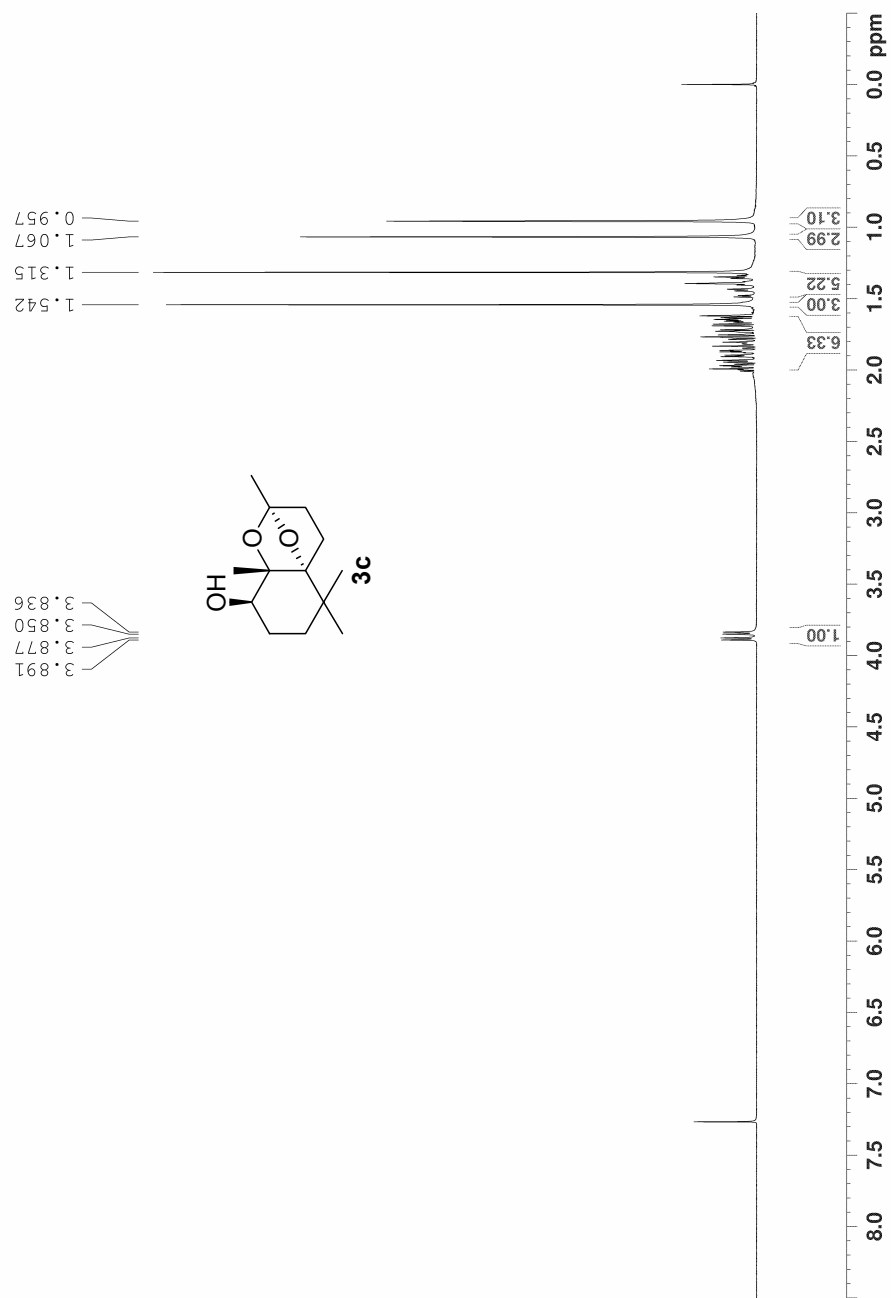


Figure S19. ^1H NMR Spectrum of compound **3c**.

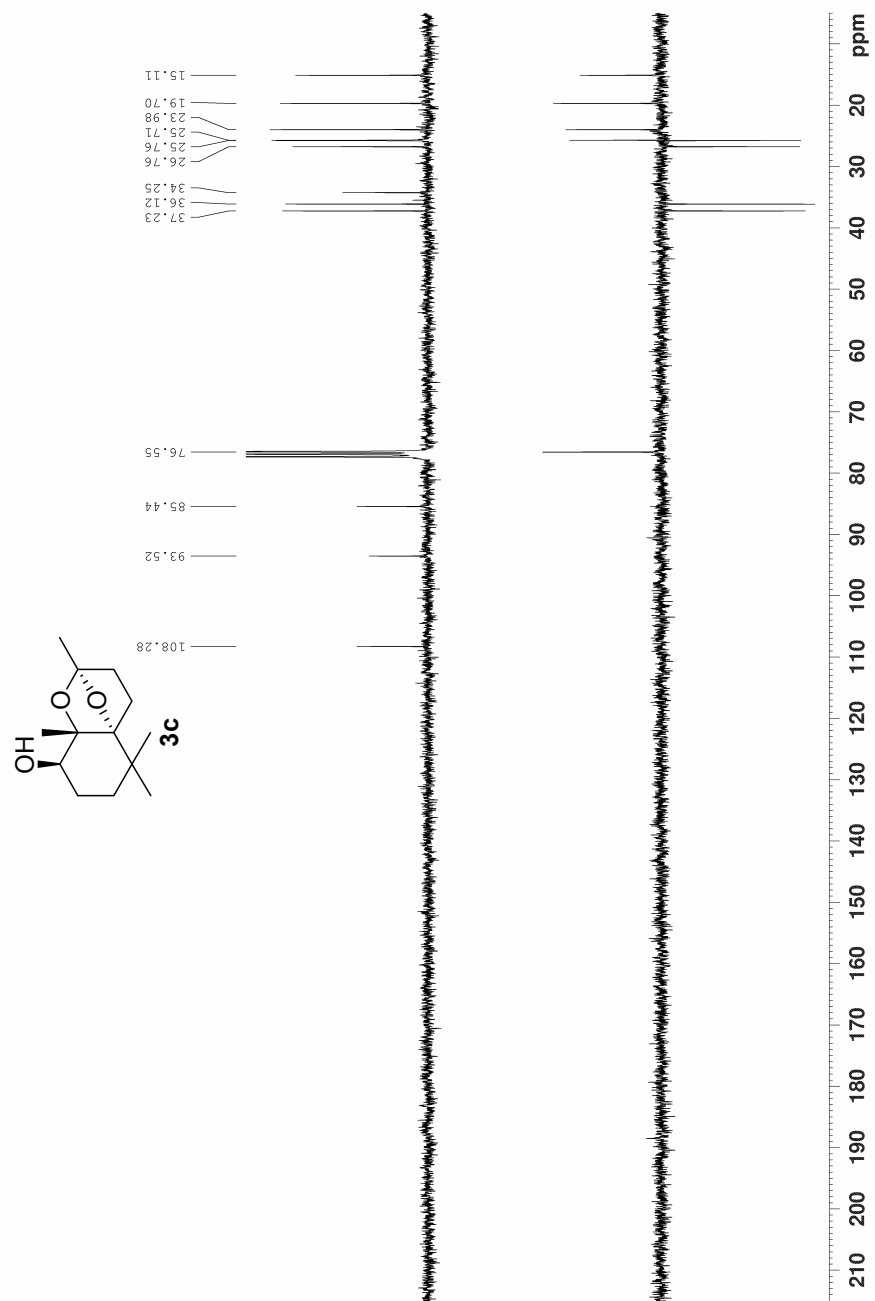


Figure S20. ^{13}C NMR Spectrum of compound **3c**.

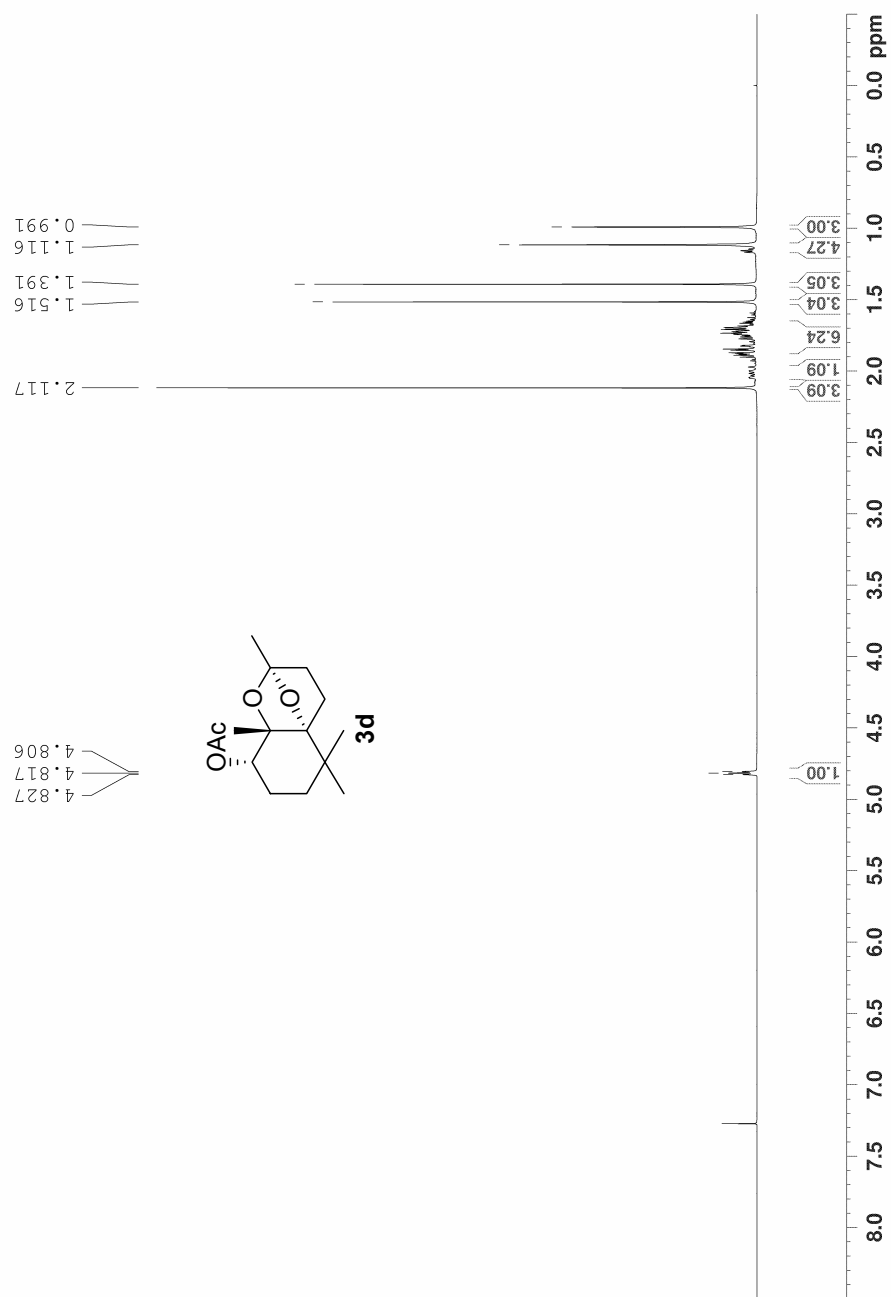


Figure S21. ^1H NMR Spectrum of compound **3d**.

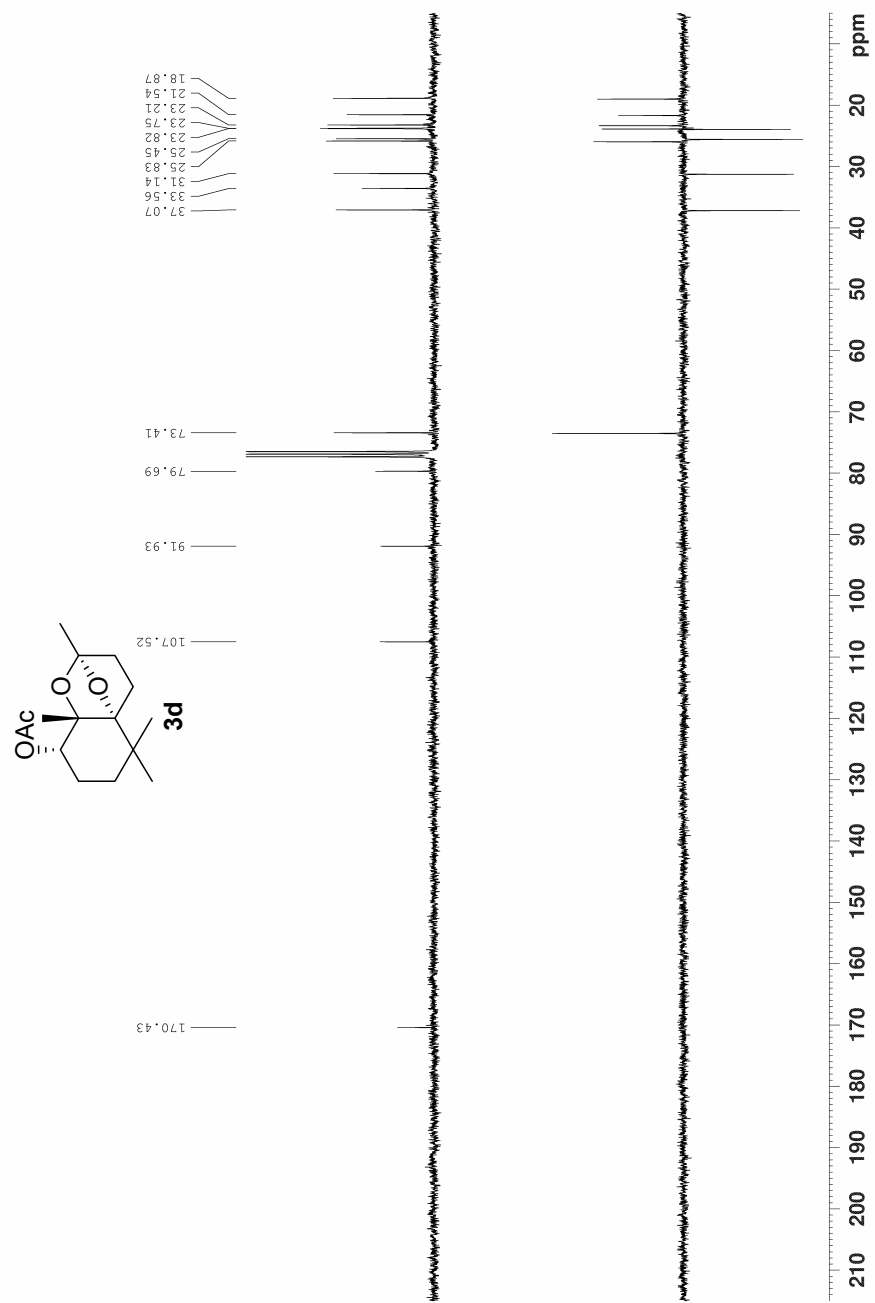


Figure S22. ^{13}C NMR Spectrum of compound **3d**.

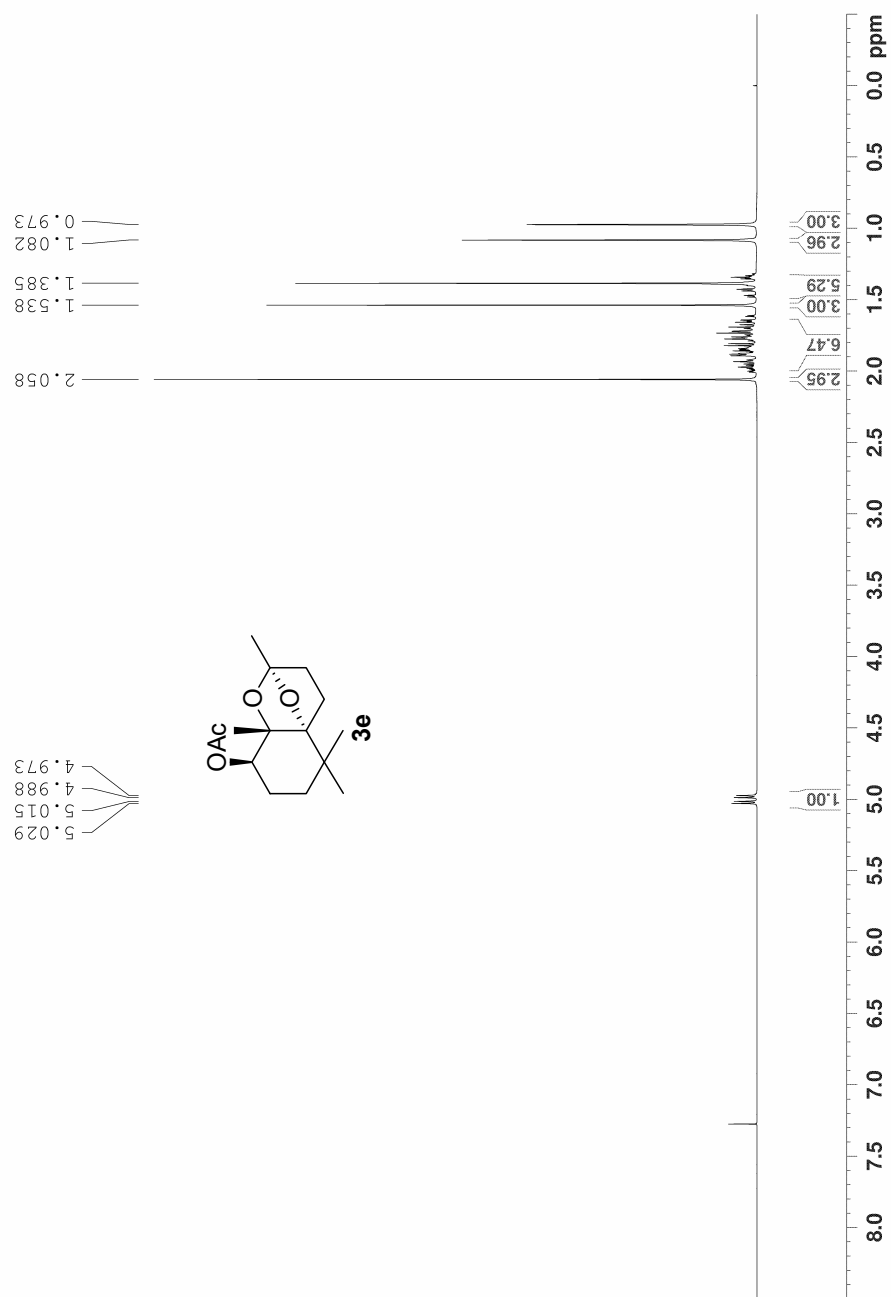


Figure S23. ^1H NMR Spectrum of compound **3e**.

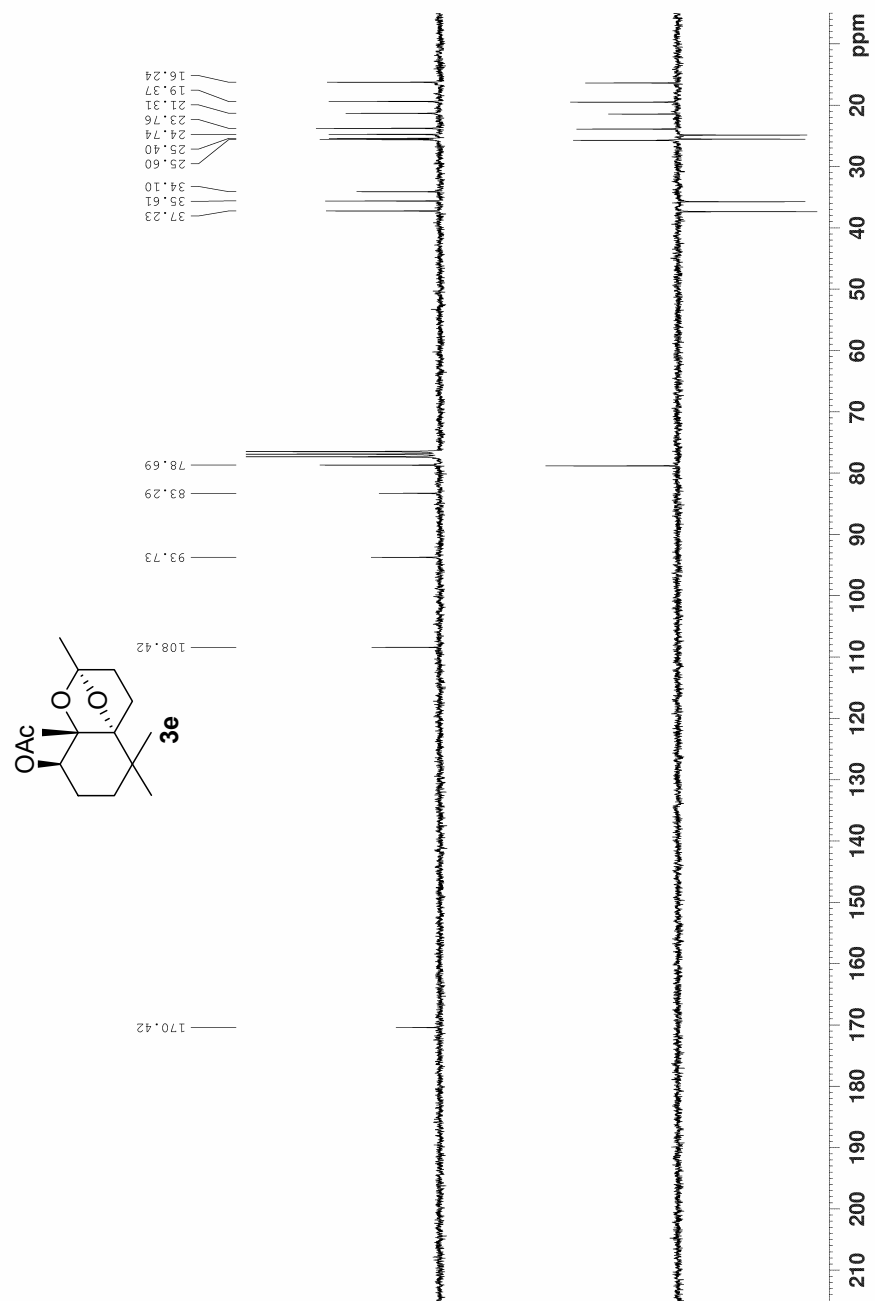


Figure S24. ^{13}C NMR Spectrum of compound **3e**.

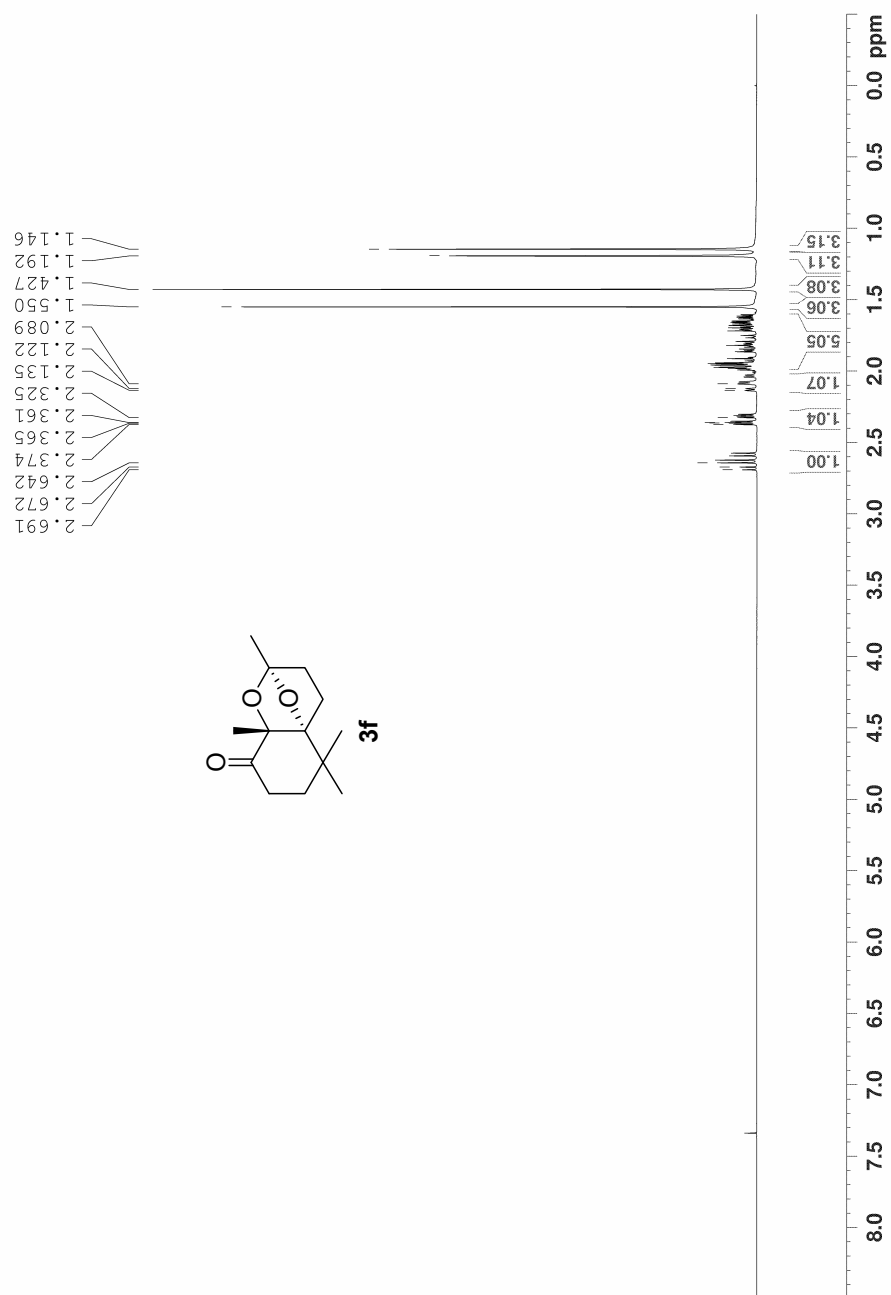


Figure S25. ¹H NMR Spectrum of compound **3f**.

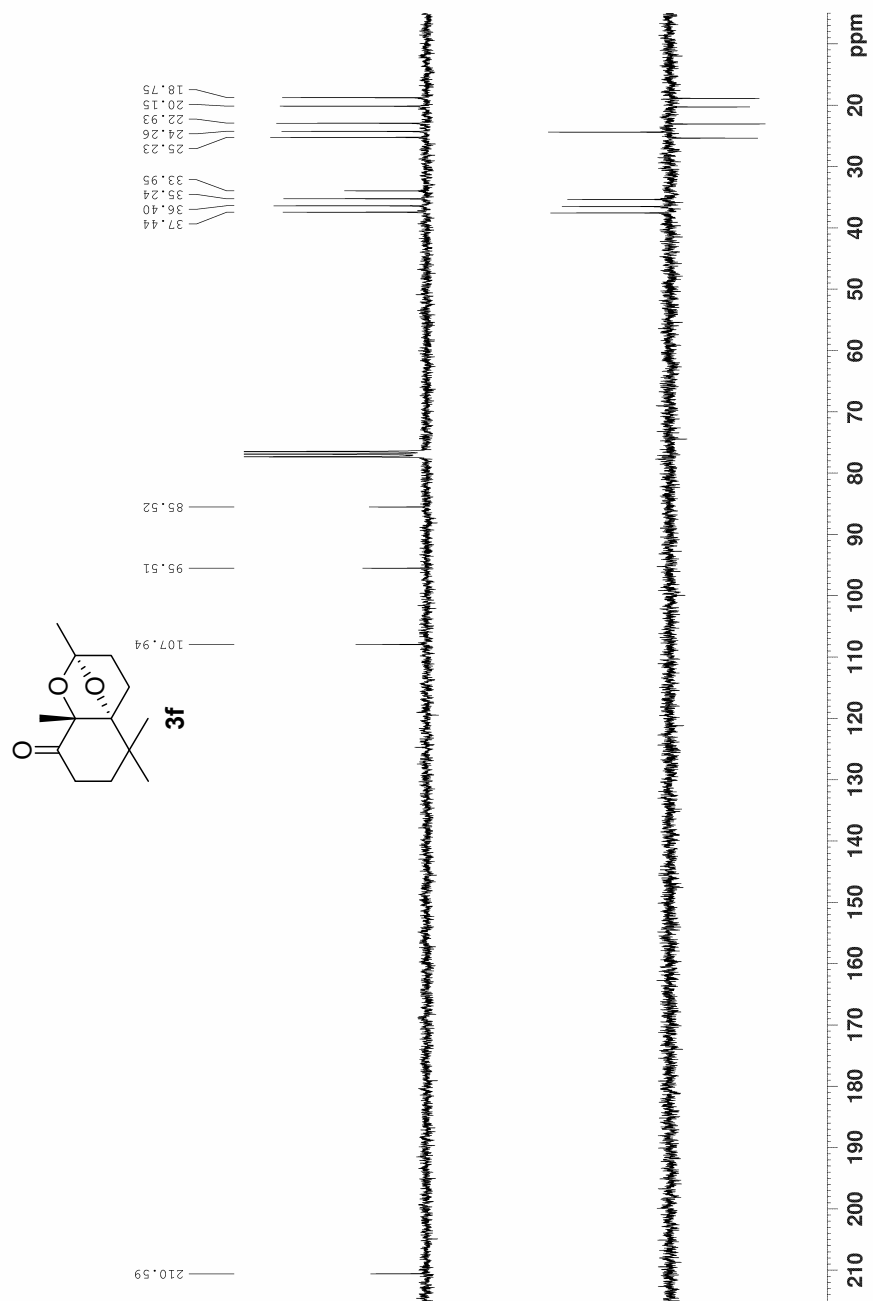


Figure S26. ^{13}C NMR Spectrum of compound **3f**.

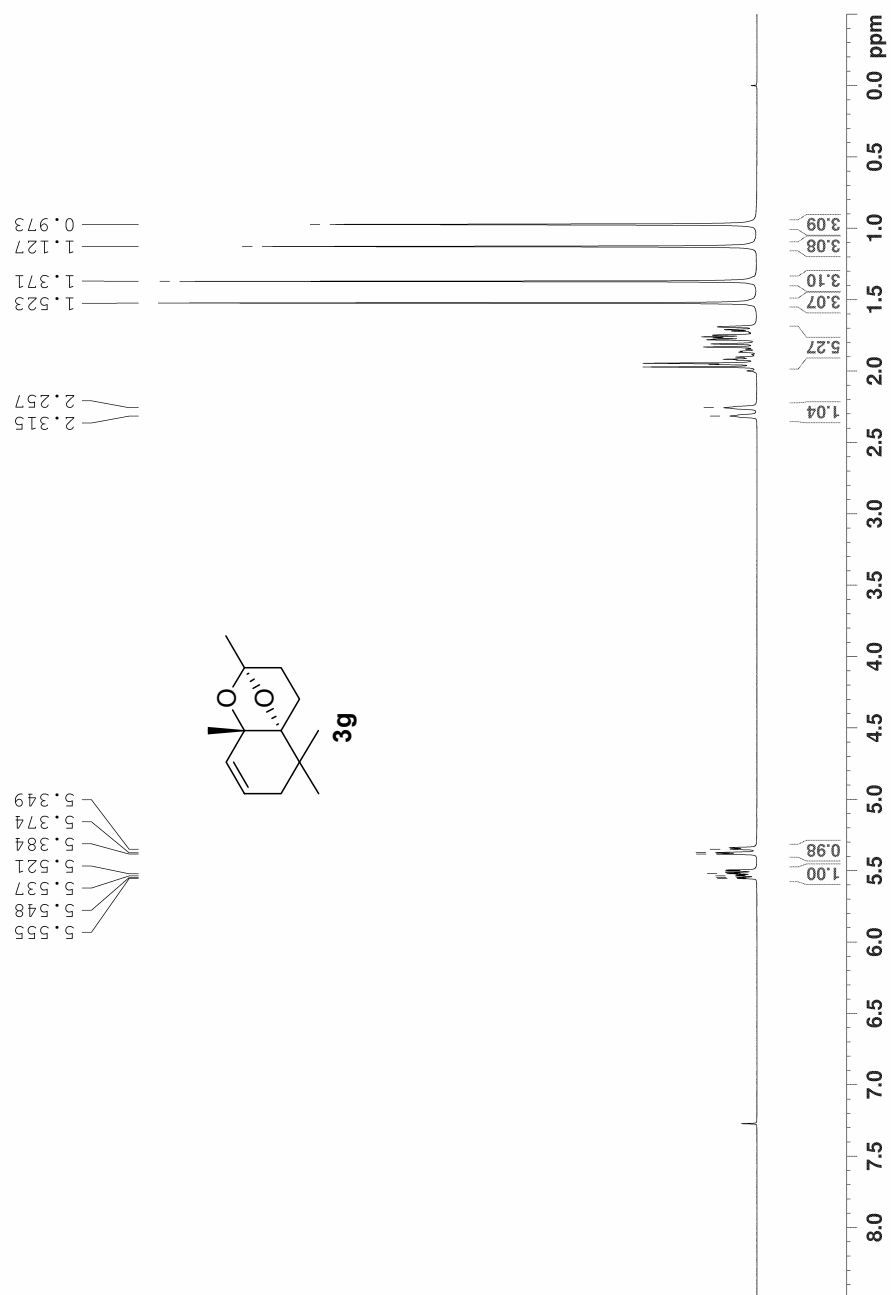


Figure S27. ^1H NMR Spectrum of compound **3g**.

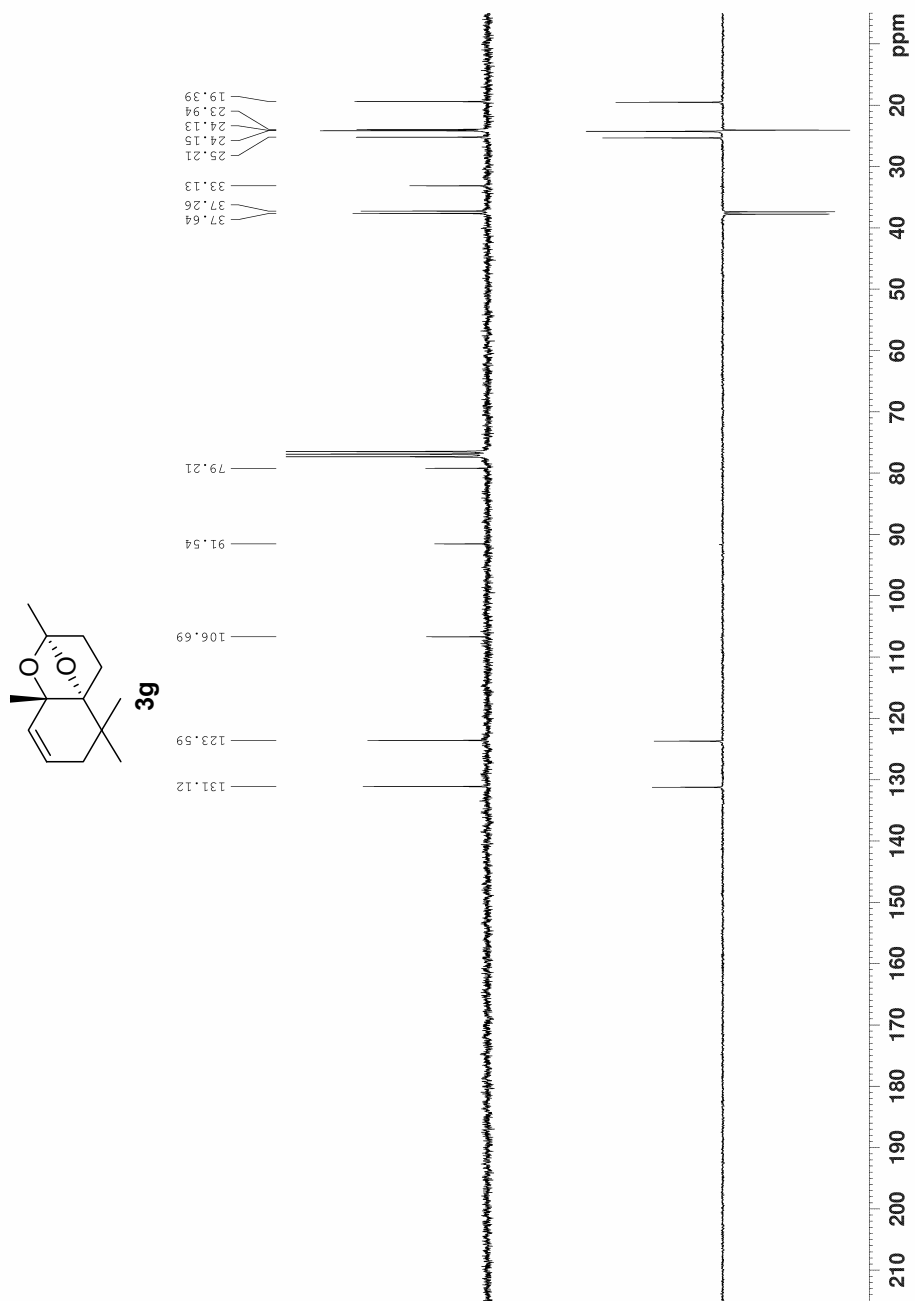


Figure S28. ^{13}C NMR Spectrum of compound **3g**.