

Supplementary Material

Highly Diastereoselective Synthesis of a Novel Functionalized triepoxytrinaphthylene

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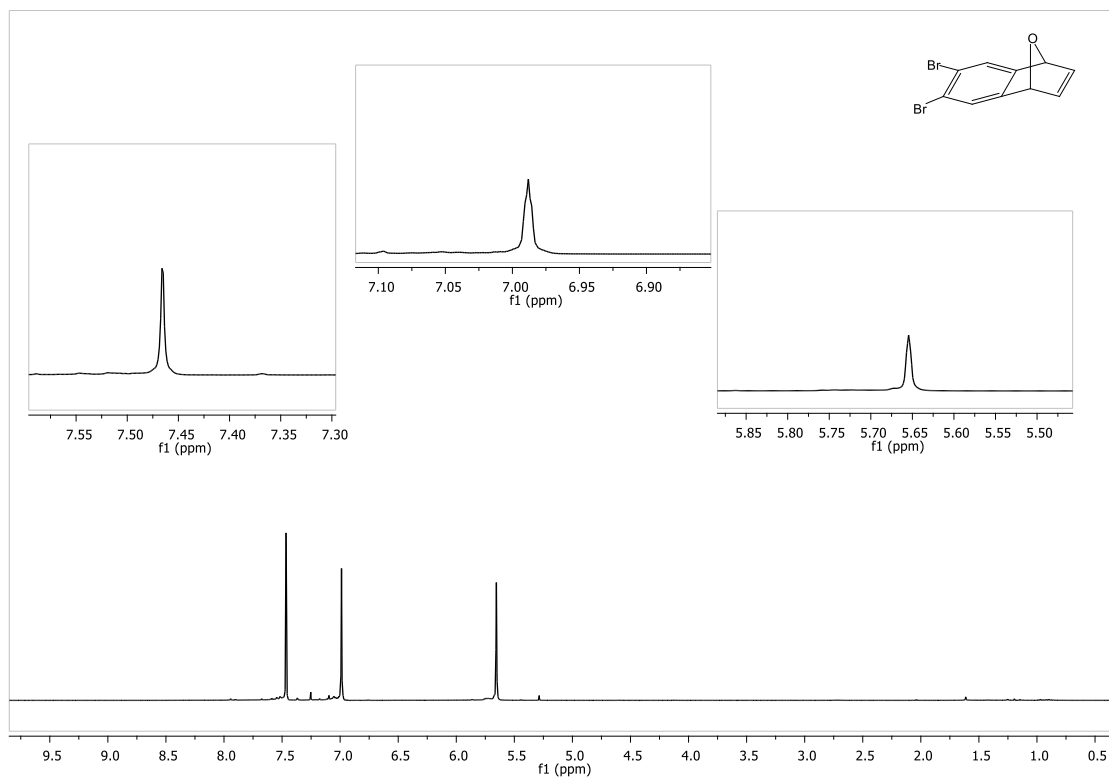


Figure S1. ¹H NMR spectrum of **4** (400 MHz, CDCl₃).

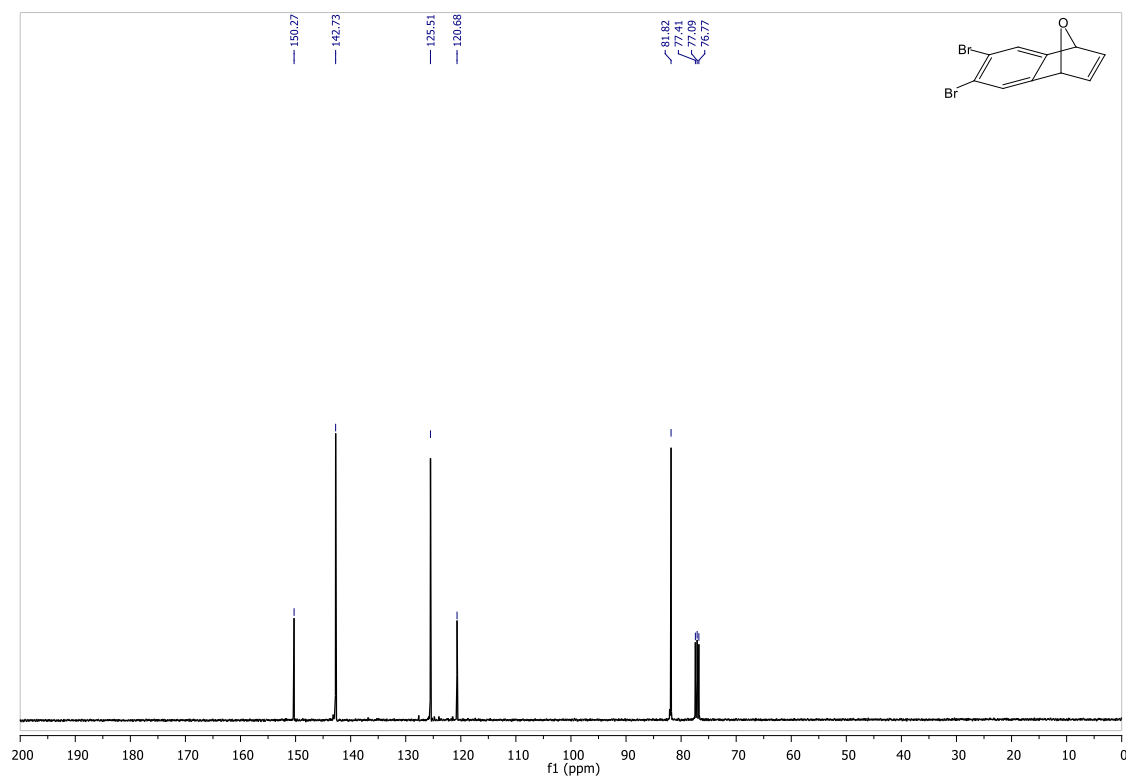


Figure S2. ¹³C NMR spectrum of **4** (100 MHz, CDCl₃)

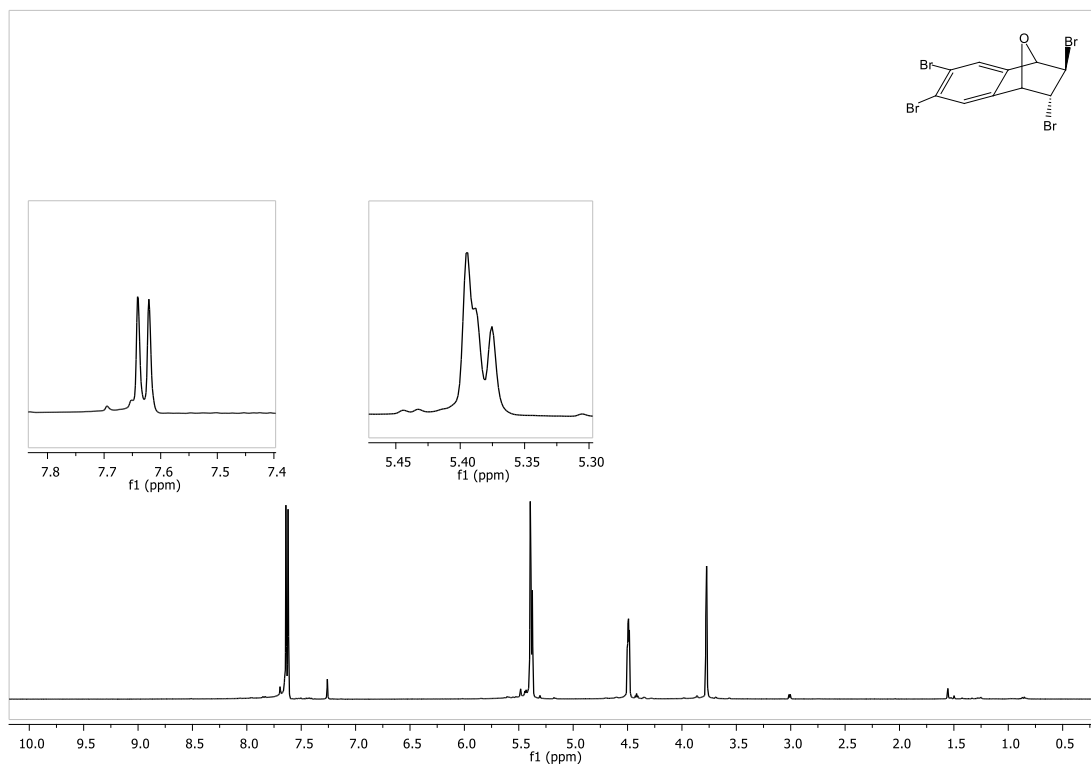


Figure S3. ¹H NMR spectrum of **5** (400 MHz, CDCl₃).

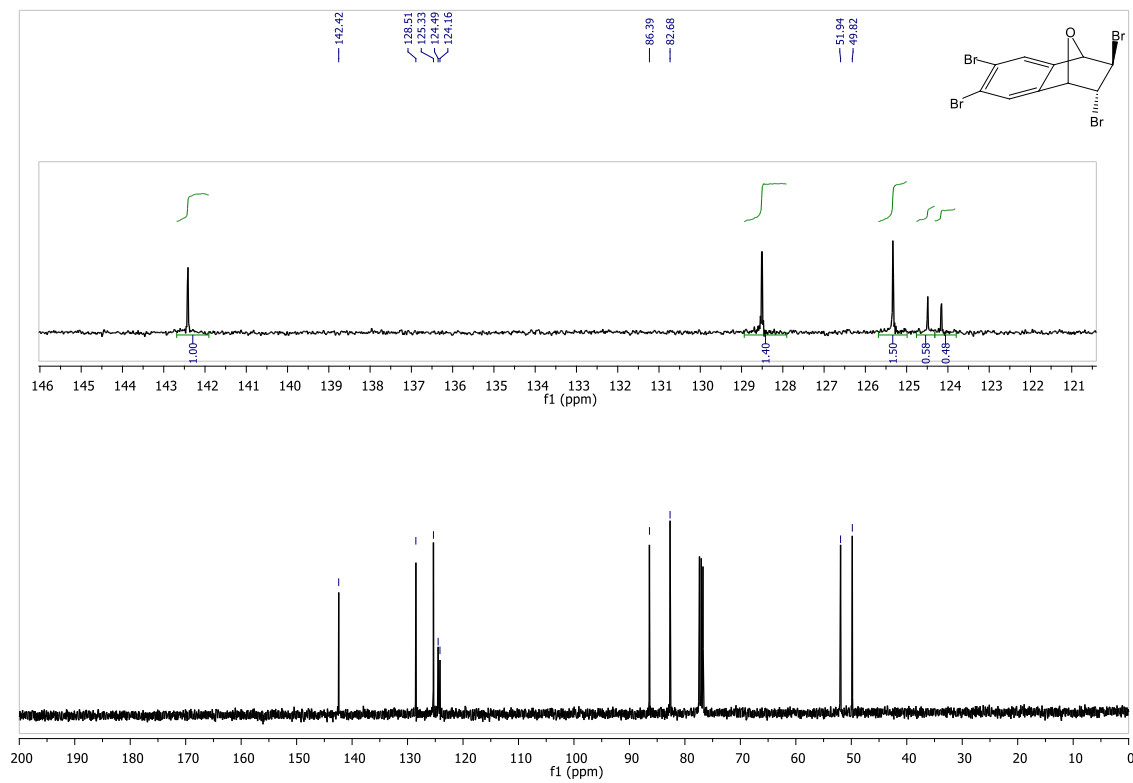


Figure S4. ¹³C NMR spectrum of **5** (100 MHz, CDCl₃)

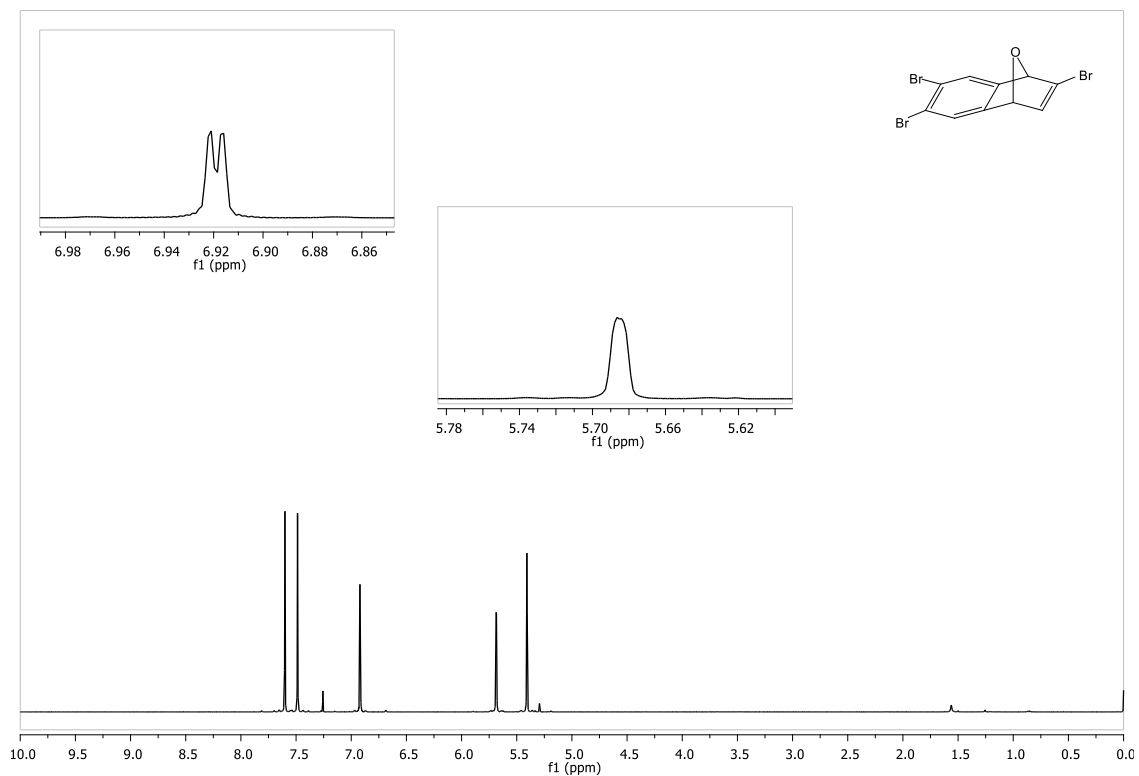


Figure S5. ¹H NMR spectrum of **6** (400 MHz, CDCl₃).

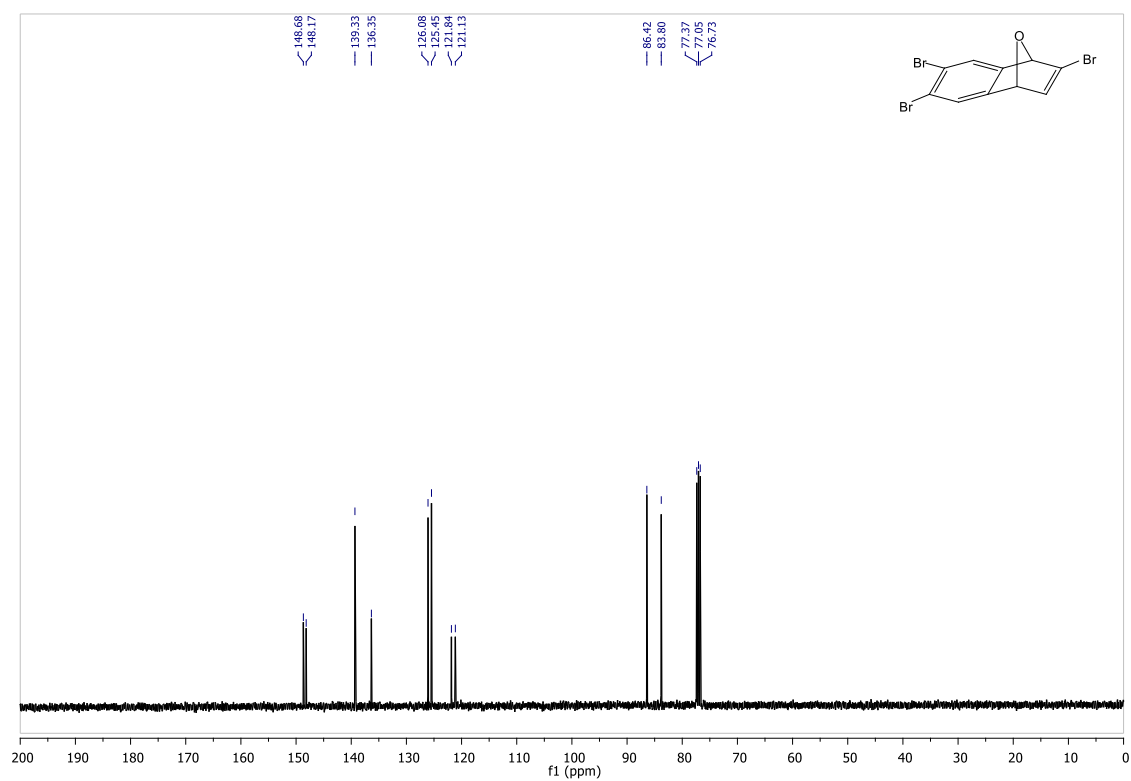


Figure S6. ¹³C NMR spectrum of **6** (100 MHz, CDCl₃).

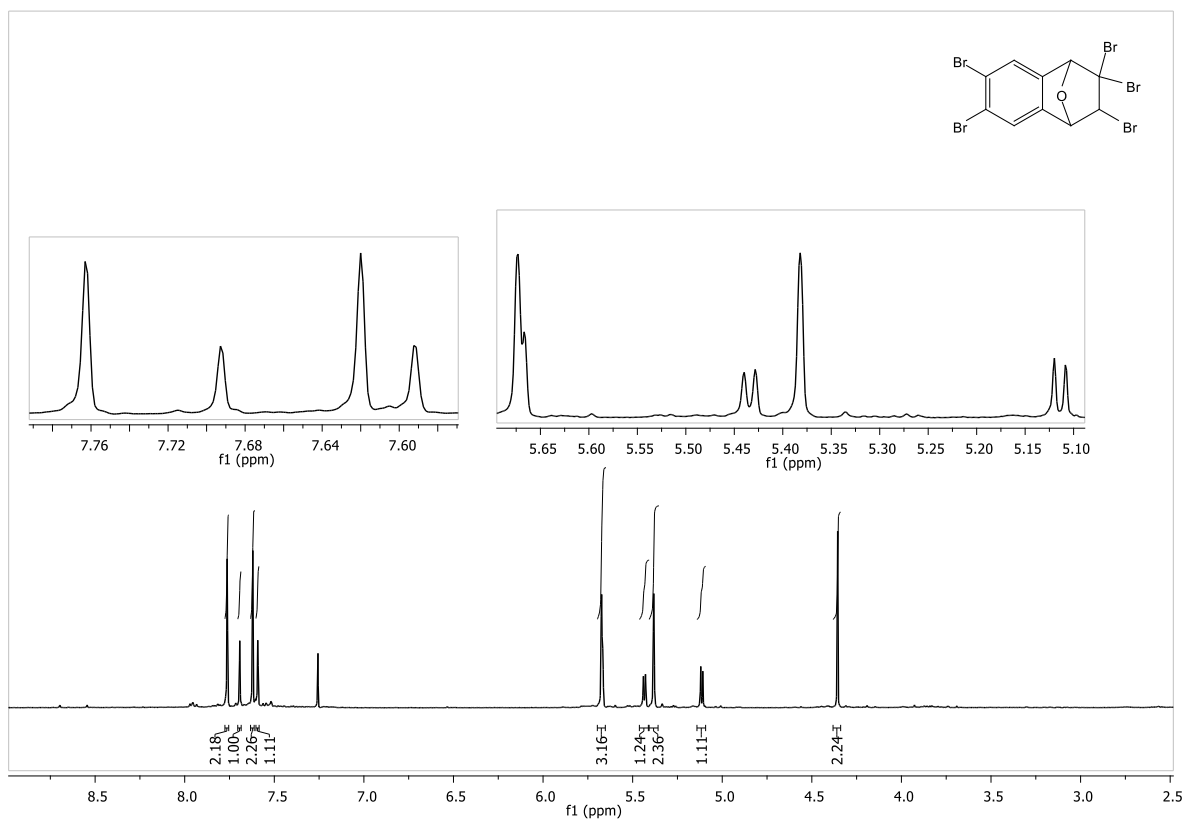


Figure S7. ¹H NMR spectrum of a mixture of *exo-7* and *endo-7* (400 MHz, CDCl₃).

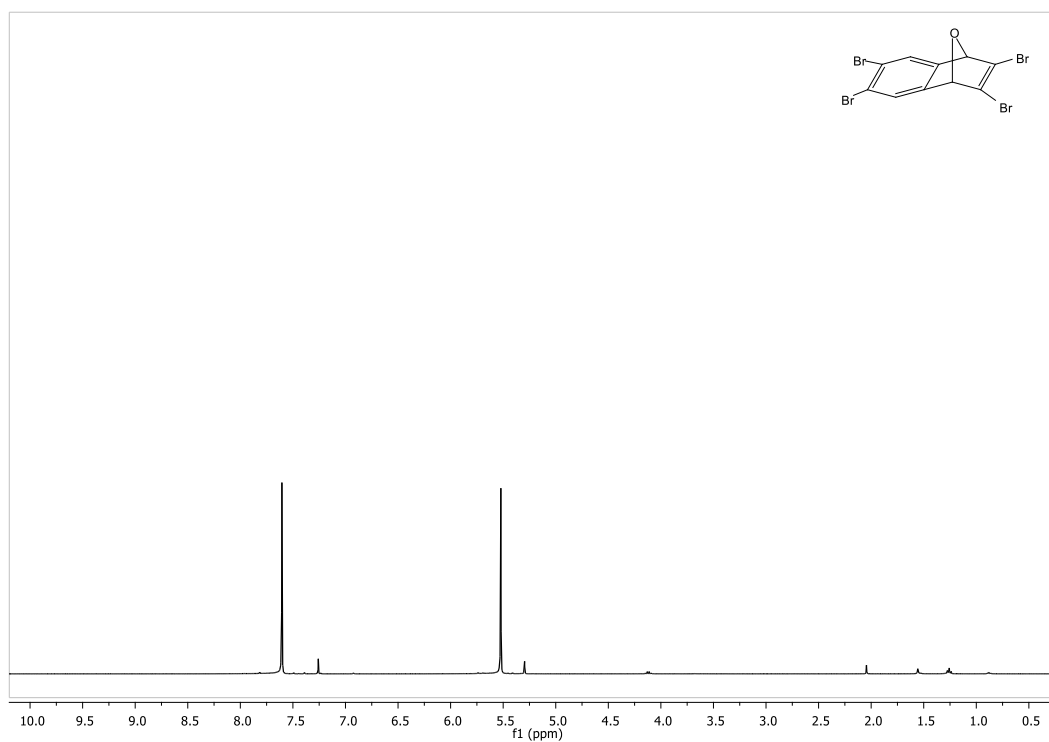


Figure S8. ¹H NMR spectrum of **8** (400 MHz, CDCl₃).

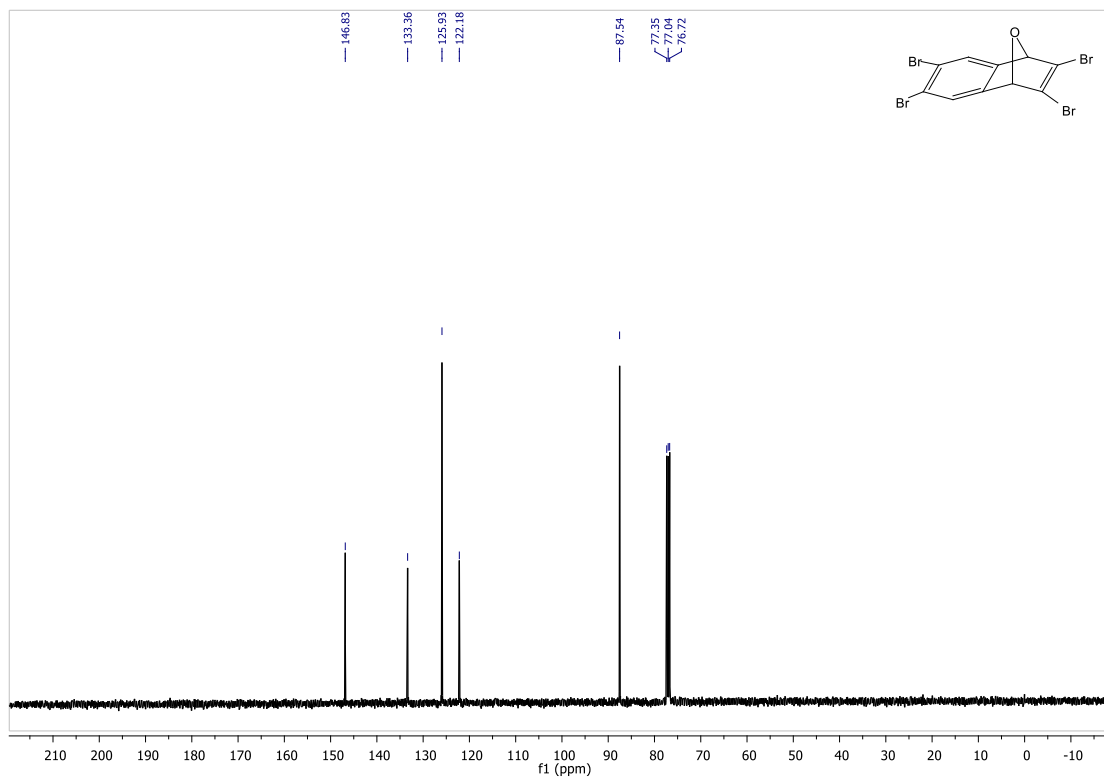


Figure S9. ^{13}C NMR spectrum of **8** (100 MHz, CDCl_3)

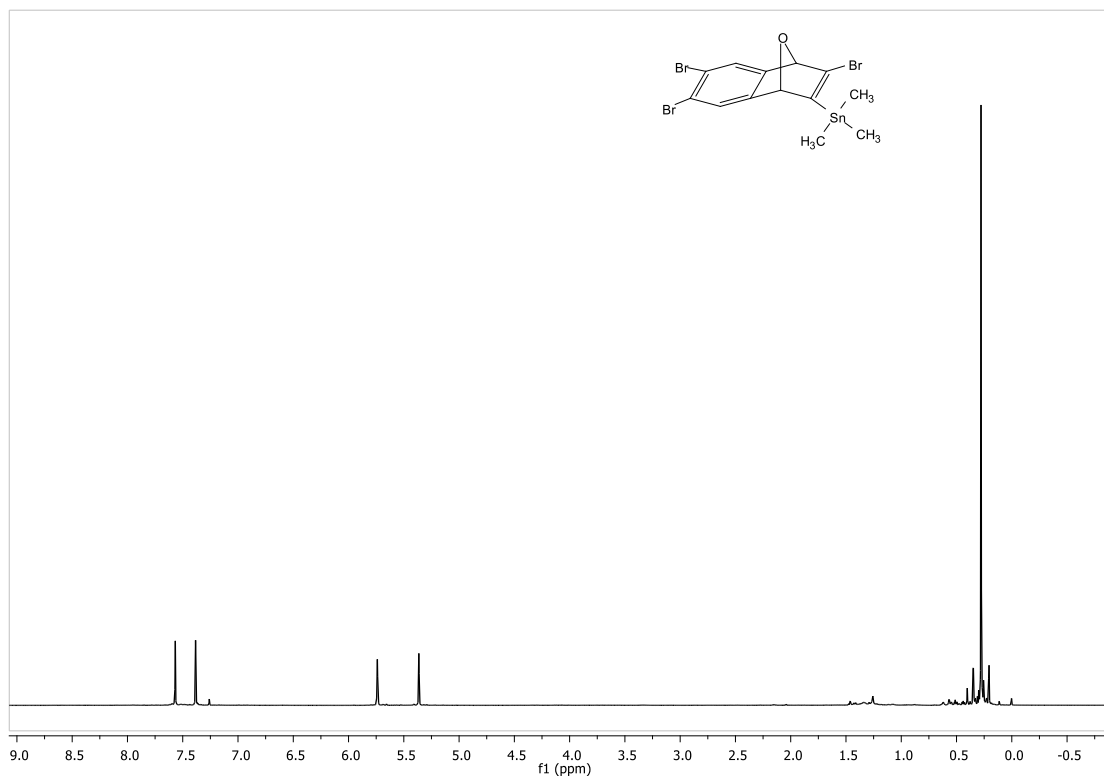


Figure S10. ^1H NMR spectrum of **9** (400 MHz, CDCl_3).

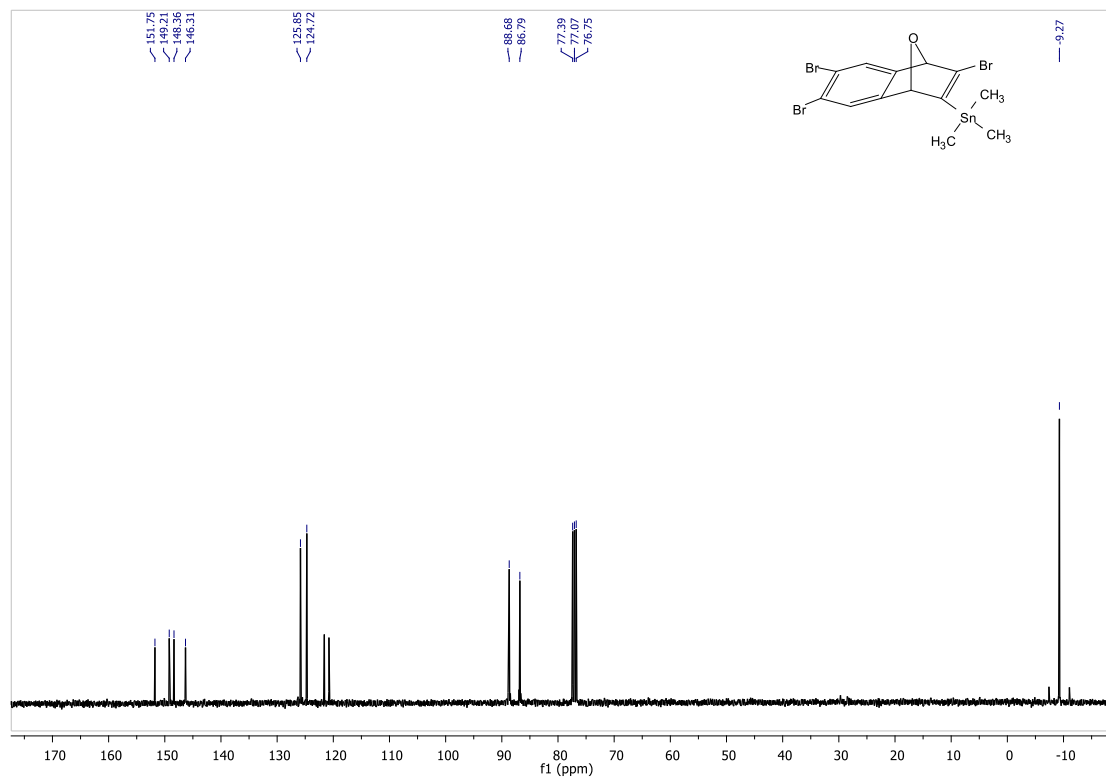


Figure S11. ¹³C NMR spectrum of **9** (100 MHz, CDCl₃)

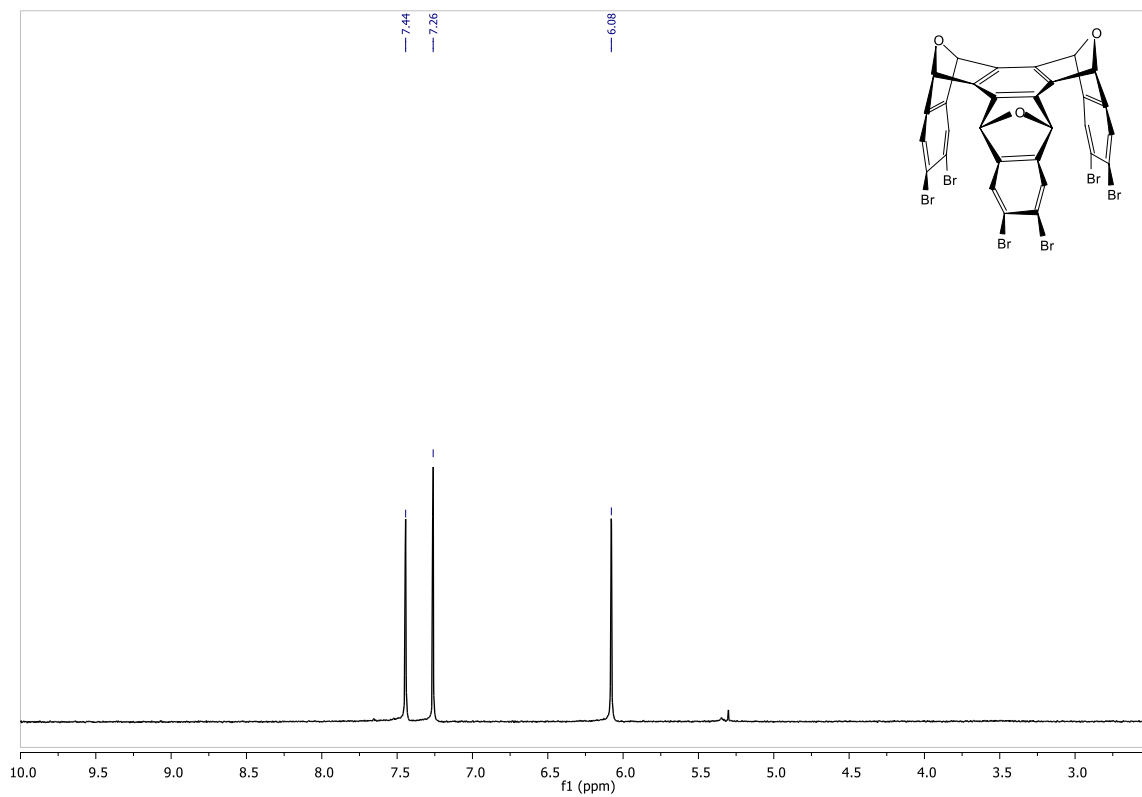


Figure S12. ^1H NMR spectrum of *syn-1* (400 MHz, CDCl_3).

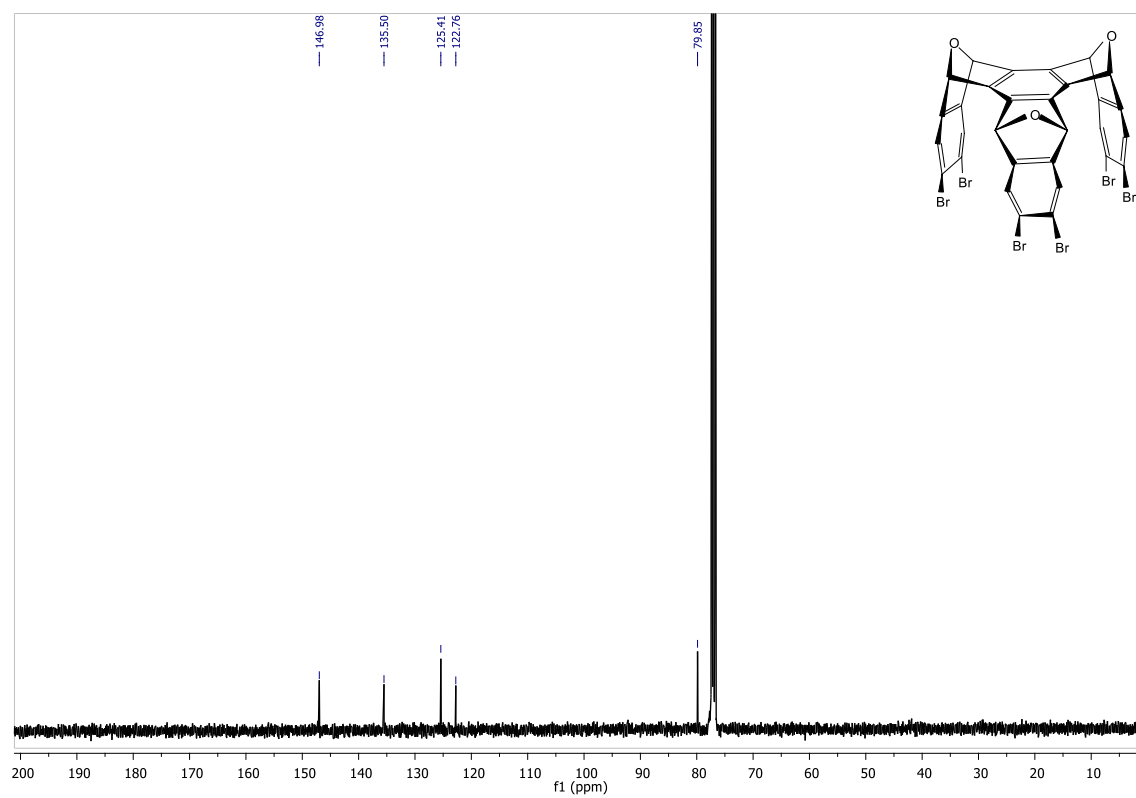


Figure S13. ^{13}C NMR spectrum of *syn-1* (100 MHz, CDCl_3)

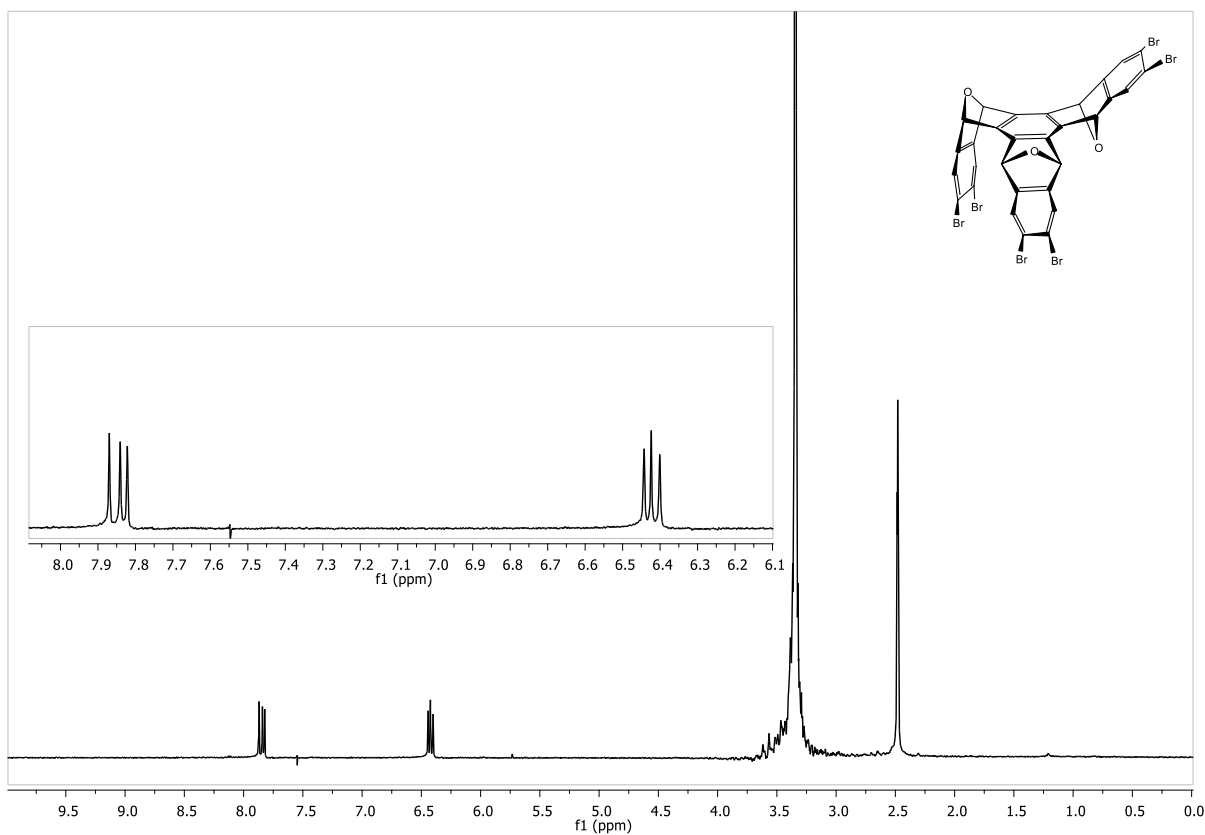


Figure S14. ^1H NMR spectrum of *anti-1* (400 MHz, $(\text{D}_6)\text{DMSO}$).

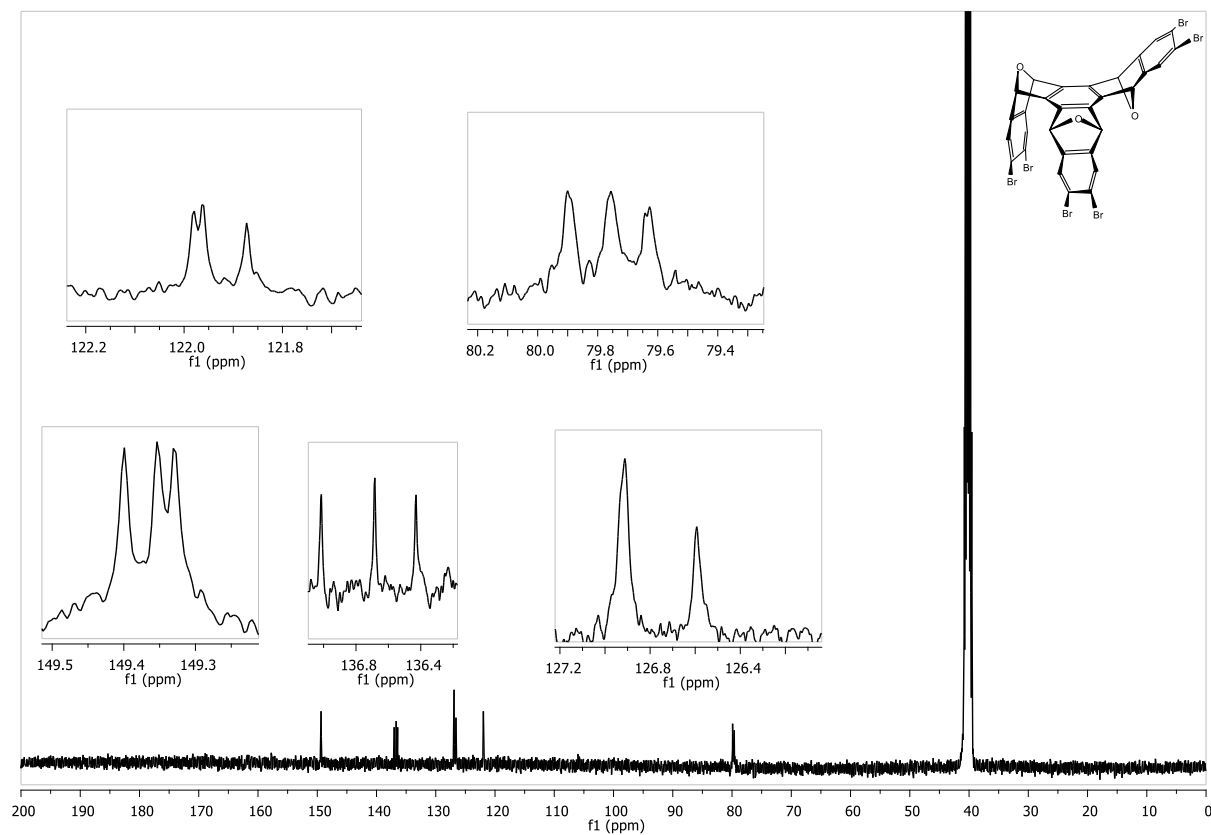


Figure S15. ^{13}C NMR spectrum of *anti*-1 (100 MHz, (D_6) DMSO).

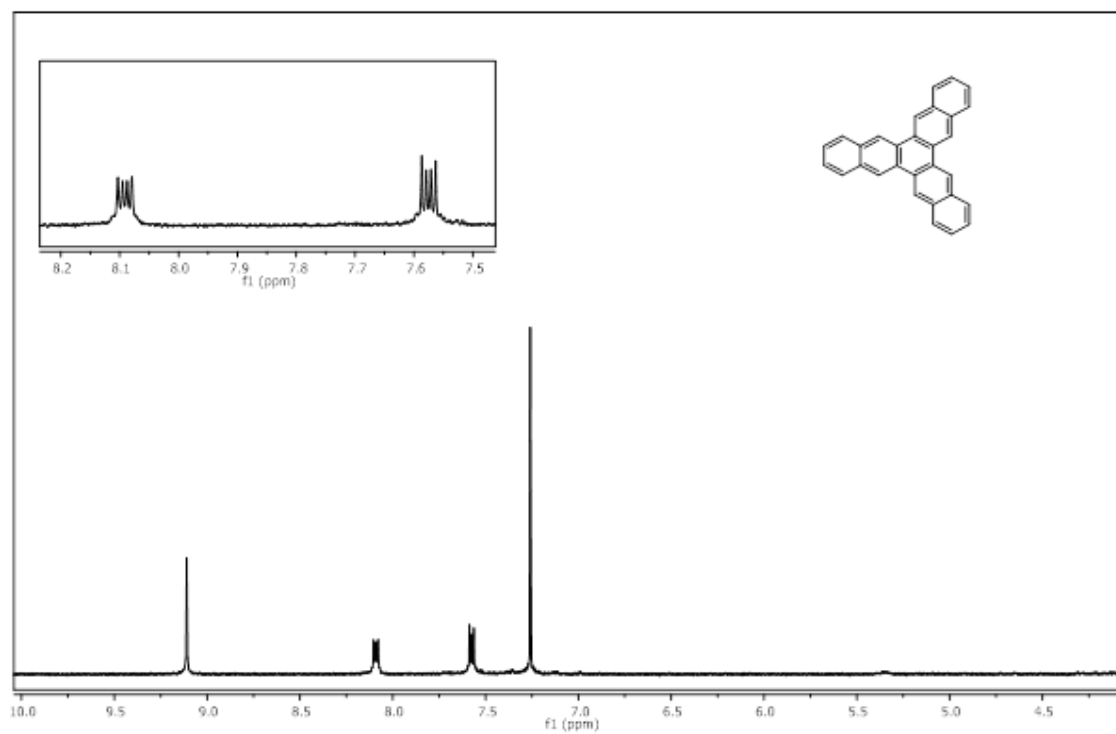


Figure S16. ^1H NMR spectrum of 2 (400 MHz, CDCl_3).

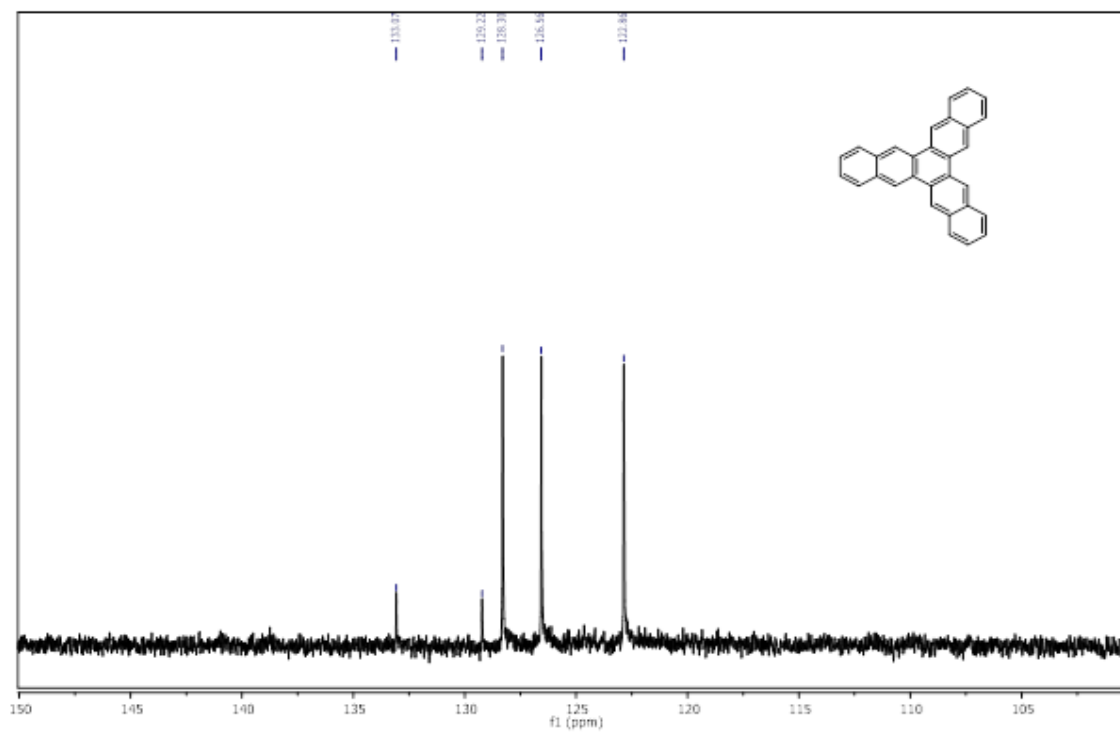
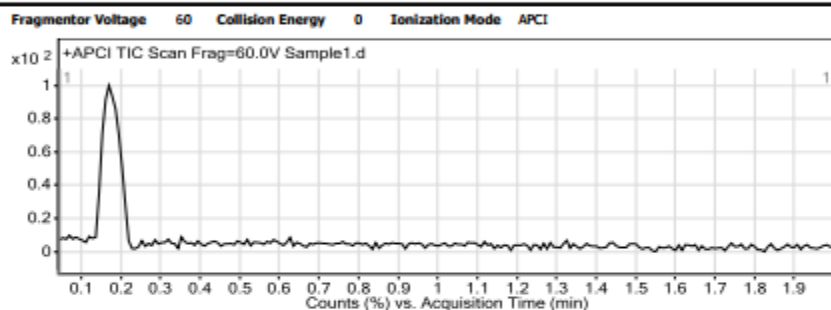


Figure S17. ^{13}C NMR spectrum of **2** (100 MHz, CDCl_3)

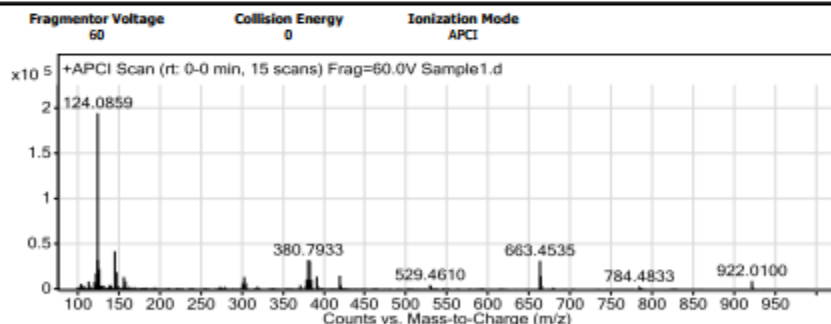
Qualitative Analysis Report

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IRM Calibration Status	Success	DA Method	QualDAMethod.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF B.06.01 (B6157)

User Chromatograms



User Spectra



Peak List

m/z	z	Abund
122.0354	1	17250.23
123.9705	1	32107.36
124.0859	1	194709.53
125.0896	1	16756.79
125.9678	1	22037.38
144.981	1	41756.79
146.9792	1	18506.67
380.7933	1	32054.74
382.7914	1	31096.25

Qualitative Analysis Report

663.4535	1	31157.74
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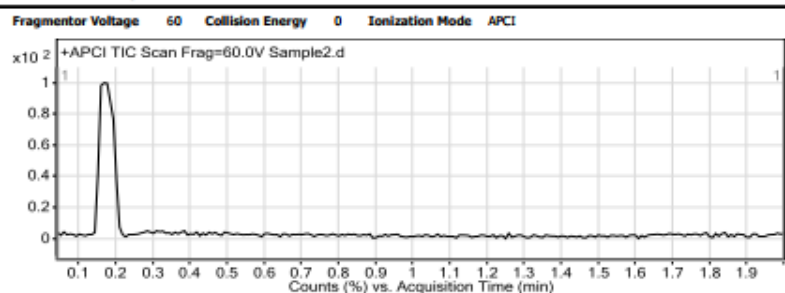
--- End Of Report ---

Figure S18. HRMS spectrum of 5

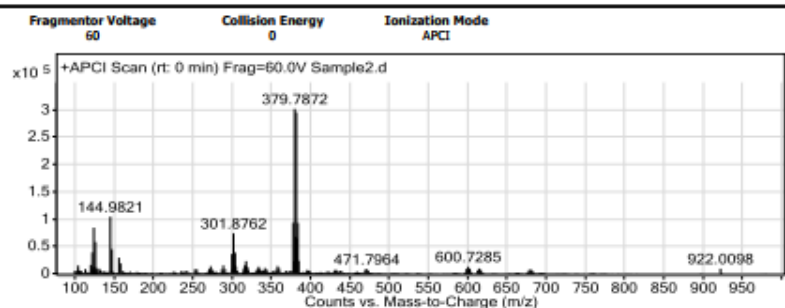
Qualitative Analysis Report

Data Filename	Sample2.d	Sample Name	Sample2
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IRM Calibration Status	Success	DA Method	QualDAMethod.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF 8.06.01 (86157)

User Chromatograms



User Spectra



Peak List

m/z	z	Abund
123.9712		84056.63
125.9686		58058.48
144.9821	1	104177.61
301.8762	1	73675.88
377.789	1	93252.28
379.7872	1	301492.91
380.7927	1	67512.49
381.7853	1	295063.66
382.7906	1	65032.95

Qualitative Analysis Report

383.7834	1	92908.96
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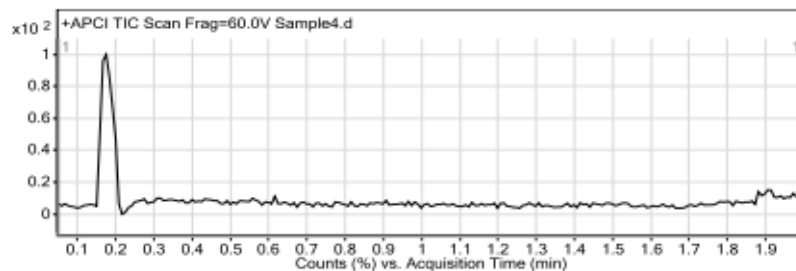
Figure S19. HRMS spectrum of 6

Qualitative Analysis Report

Data Filename	Sample4.d	Sample Name	Sample4
Sample Type	Sample	Position	P1-A4
Instrument Name	Instrument 1	User Name	
Acq Method	MS_APCI_POS.m	Acquired Time	4/10/2017 11:22:17 AM
IRM Calibration Status	Success	DA Method	QualDAMethod.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6157)

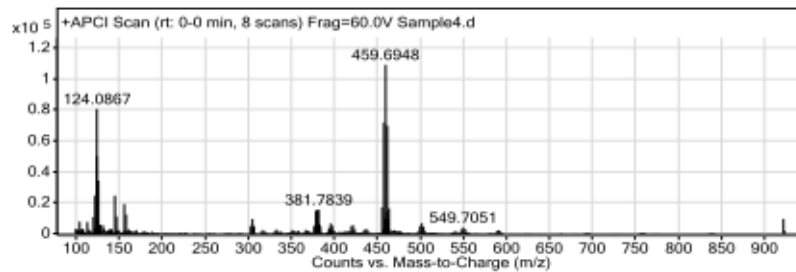
User Chromatograms

Fragmentor Voltage 60 Collision Energy 0 Ionization Mode APCI



User Spectra

Fragmentor Voltage 60 Collision Energy 0 Ionization Mode APCI



Peak List

m/z	z	Abund
122.0362		24585.13
123.9712	1	49906.15
124.0867	1	80459.41
125.9686	1	34204.33
144.9817		24492.88
155.9972		19023.67
455.6984	1	17043.43
457.6967	1	71696.34
459.6948	1	108994.12

Qualitative Analysis Report

461.6926	1	69634.25
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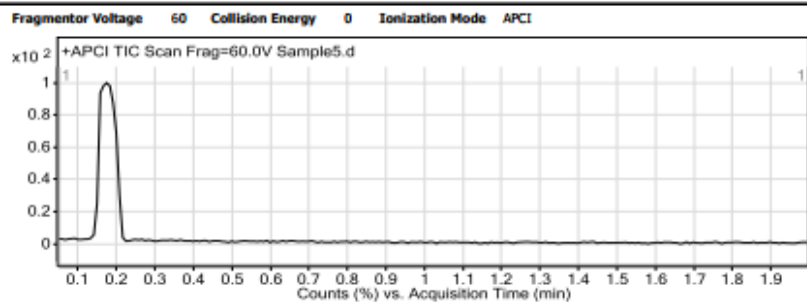
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Figure S20. HRMS spectrum of **8**

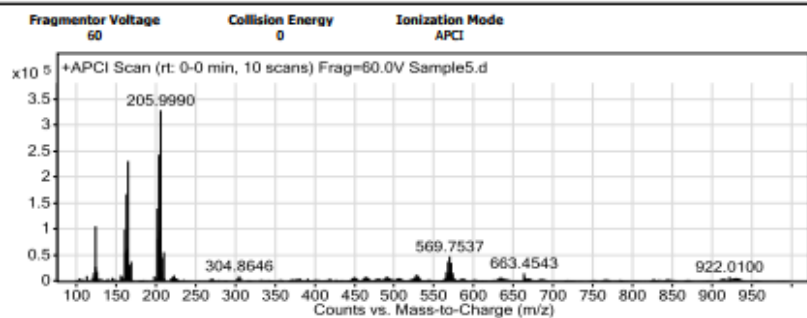
Qualitative Analysis Report

Data Filename	Sample5.d	Sample Name	Sample5
Sample Type	Sample	Position	P1-A5
Instrument Name	Instrument 1	User Name	
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IRM Calibration Status	Success	DA Method	QualDAMethod.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.06.01 (B6157)

User Chromatograms



User Spectra



Peak List

m/z	z	Abund
124.0875	1	104927.52
160.972		98620.89
162.9719		166527.23
163.9736		61636.37
164.9726	1	230323.97
201.9987		138742.28
203		80415.02
203.9987		242502.47
205.0004		95799.98

Qualitative Analysis Report

205.999	1	327950.34
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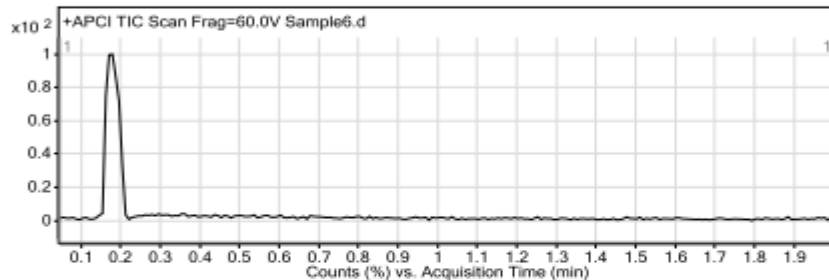
Figure S21. HRMS spectrum of 9

Qualitative Analysis Report

Data Filename	Sample6.d	Sample Name	Sample6
Sample Type	Sample	Position	P1-A6
Instrument Name	Instrument 1	User Name	
Acq Method	MS_APCI_POS.m	Acquired Time	4/10/2017 11:27:46 AM
IRM Calibration Status	Success	DA Method	QualDAMethod.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF B.06.01 (86157)

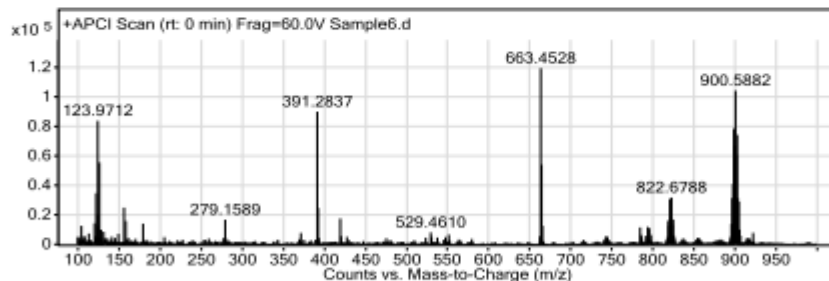
User Chromatograms

Fragmentor Voltage 60 Collision Energy 0 Ionization Mode APCI



User Spectra

Fragmentor Voltage 60 Collision Energy 0 Ionization Mode APCI



Peak List

m/z	z	Abund
123.9712	1	83768.66
125.9685	1	55468.65
391.2837	1	89939.22
663.4528	1	119362.51
664.4565	1	53962.66
898.5895	1	78380.13
899.5851	1	66627.38
900.5882	1	104191.91
901.5853	1	60645.79

Qualitative Analysis Report

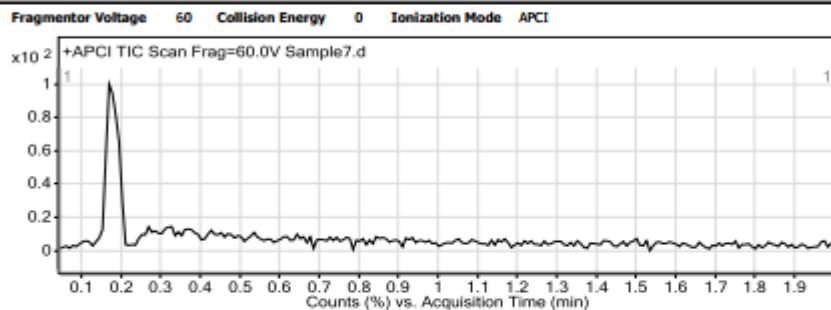
902.5869	1	74225.2
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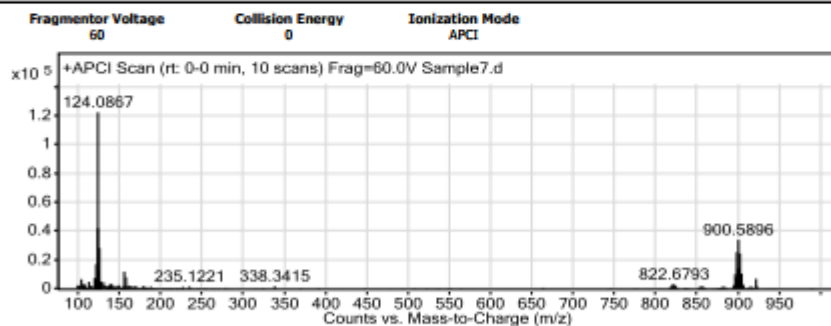
Qualitative Analysis Report

Data Filename	Sample7.d	Sample Name	Sample7
Sample Type	Sample	Position	P1-A7
Instrument Name	Instrument 1	User Name	
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IRM Calibration Status	Success	DA Method	QualDAMethod.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF B.06.01 (B6157)

User Chromatograms



User Spectra



Peak List

m/z	z	Abund
122.0362	1	16766.2
123.9712	1	41796.57
124.0867	1	122390.45
125.0914	1	12261.9
125.9684	1	28007.29
898.5915	1	25122.72
899.5895	1	13223.63
900.5896	1	33682.82
901.5891	1	14237.28

Qualitative Analysis Report

902.588	1	24268.17
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Figure S23. HRMS spectrum of *anti*-1