

SUPPORTING INFORMATION

Cobalt salophen complexes for light-driven water oxidation

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3/30/2015 1:16:12 PM

Acquisition Time (sec)	32768	Comment	salophen	Date	25 Nov 2014 01:27:28	Frequency (MHz)	500.20
Date Stamp	25 Nov 2014 01:27:28	File Name	D:\NMR data\Ali\901.fid		Owner	nmr	
Nucleus	¹ H	Number of Transients	16	Origin	spect	Original Points Count	32768
Points Count	32768	Pulse Sequence	zg30	Receiver Gain	94.75	SW(cyclical) (Hz)	10000.00
Spectrum Offset (Hz)	3088.9392	Spectrum Type	STANDARD	Sweep Width (Hz)	9999.70	Solvent	DMSO-d6
						Temperature (degree C)	27.202

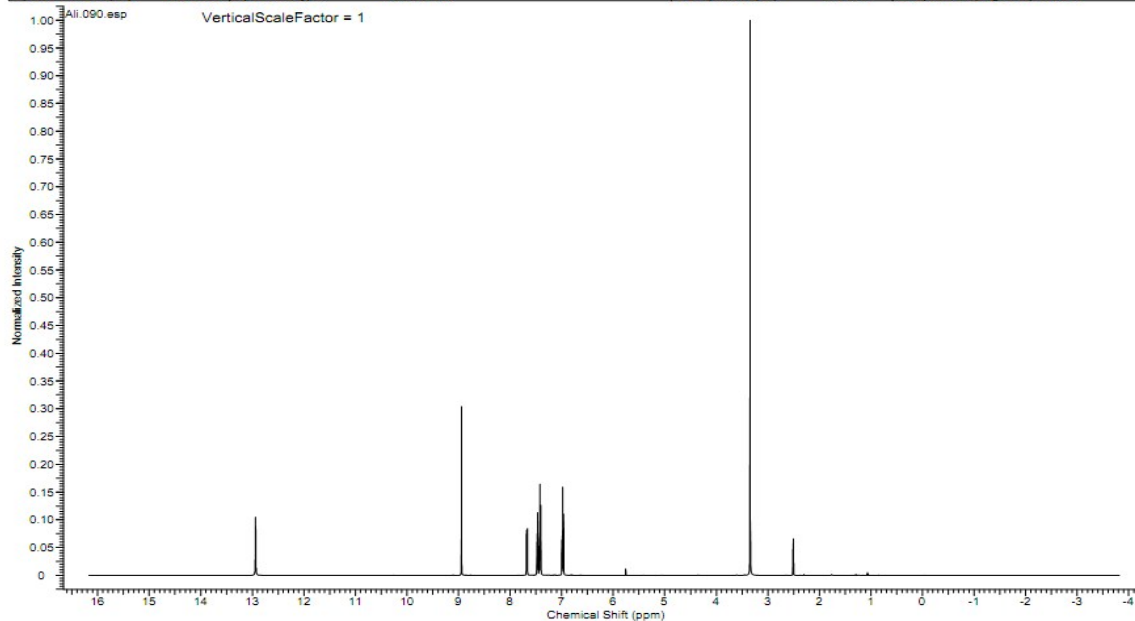


Figure S1: ¹H-NMR spectrum of the ligand, Slp

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4/1/2015 11:13:41 AM

Acquisition Time (sec)	11010	Comment	Slp	Date	25 Mar 2015 09:42:24	Frequency (MHz)	125.78
Date Stamp	25 Mar 2015 09:42:24	File Name	D:\NMR data\NMR_data for Slp\2015.fid		Owner	nmr	
Nucleus	¹³ C	Number of Transients	1024	Origin	spect	Original Points Count	32768
Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	190.40	SW(cyclical) (Hz)	29761.90
Spectrum Offset (Hz)	29761.90	Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Solvent	DMSO-d6
						Temperature (degree C)	27.199

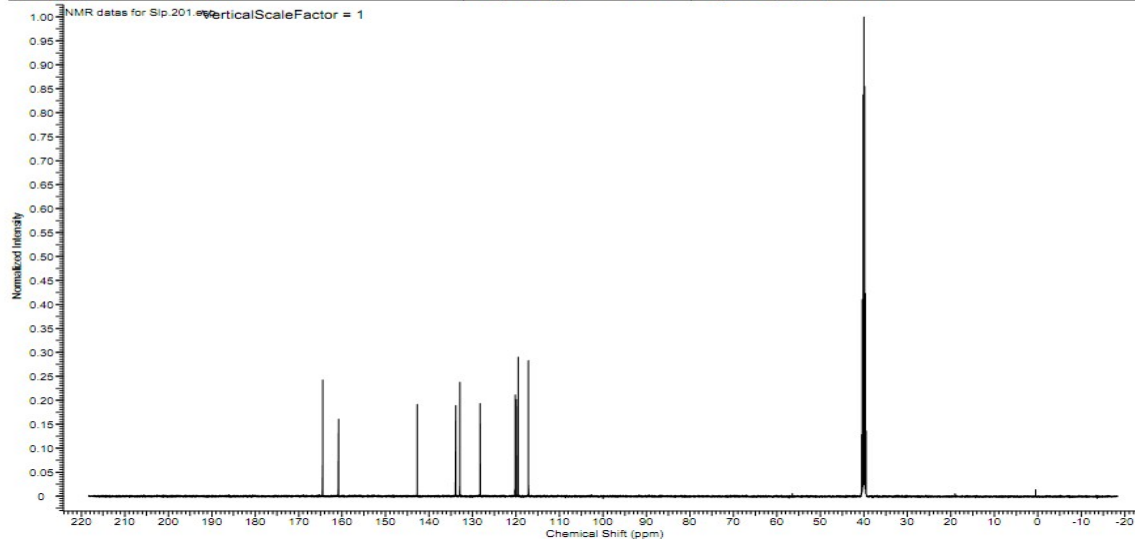


Figure S2: ¹³C-NMR spectrum of the ligand, Slp

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Acquisition Time (sec)	3.2768	Comment	MAA003	Date	09 Dec 2014 01:10:24	File Name	D:\NMR data\Ali-11150\fid	Frequency (MHz)	500.20
Date Stamp	09 Dec 2014 01:10:24	Number of Transients	16	Origin	spec1	Original Points Count	32768	Owner	nmr
Nucleus	¹ H	Pulse Sequence	zg30	Receiver Gain	85.25	SW (cycles)	10000.00	Solvent	DMSO-d6
Points Count	32768	Spectrum Type	STANDARD	Sweep Width (Hz)	9999.70	Temperature (degree C)	27.200		

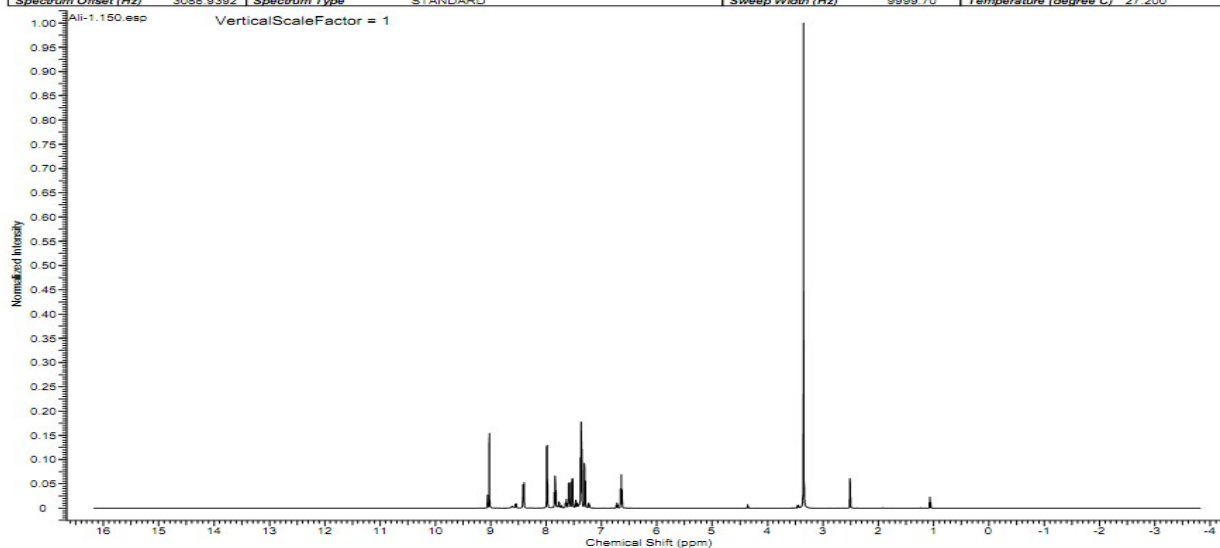


Figure S3: ¹H-NMR spectrum of the complex 1

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4/1/2015 2:16:17 PM

Acquisition Time (sec)	1.1010	Comment	MAA003	Date	09 Dec 2014 02:05:52	File Name	D:\NMR data\Ali-11151\fid	Frequency (MHz)	125.78
Date Stamp	09 Dec 2014 02:05:52	Number of Transients	1024	Origin	spec1	Original Points Count	32768	Owner	nmr
Nucleus	¹³ C	Pulse Sequence	zgpg30	Receiver Gain	190.40	SW (cycles)	29761.90	Solvent	DMSO-d6
Points Count	32768	Spectrum Type	STANDARD	Sweep Width (Hz)	29761.90	Temperature (degree C)	27.199		

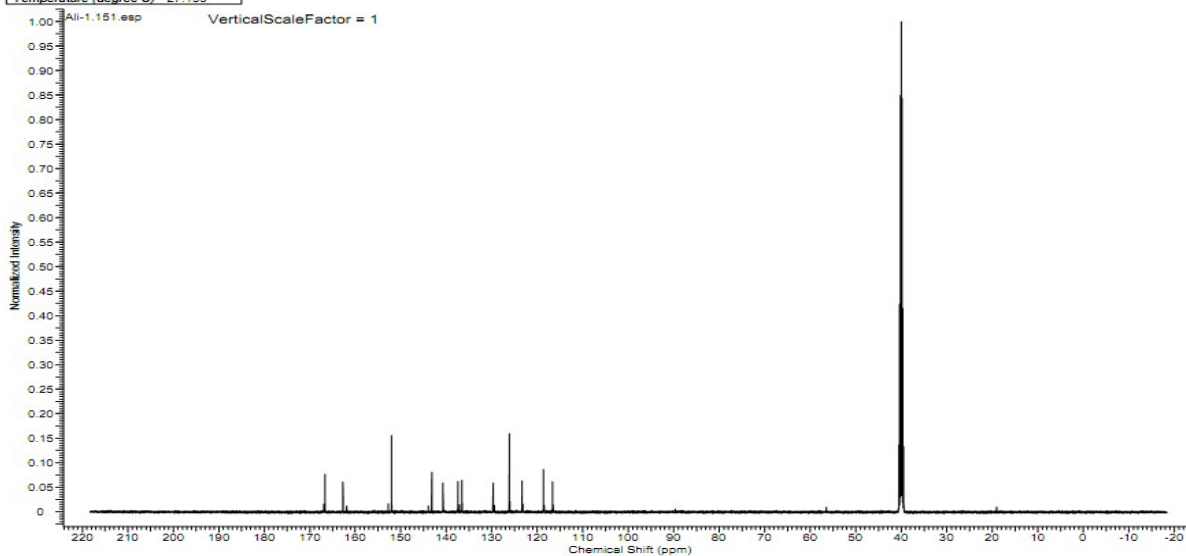


Figure S4: ¹³C-NMR spectrum of the complex 1

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Acquisition Time (sec)	3.2768	Comment	MAA001	Date	08 Dec 2014 23:08:48	Frequency (MHz)	500.20
Date Stamp	08 Dec 2014 23:08:48	File Name	D:\NMR data\Ali-111301.fid		Owner	nmr	
Nucleus	¹ H	Number of Transients	16	Origin	spect	Original Points Count	32768
Points Count	32768	Pulse Sequence	zq30	Receiver Gain	108.18	SW(cyclical) (Hz)	10000.00
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						Temperature (degree C)	27.200

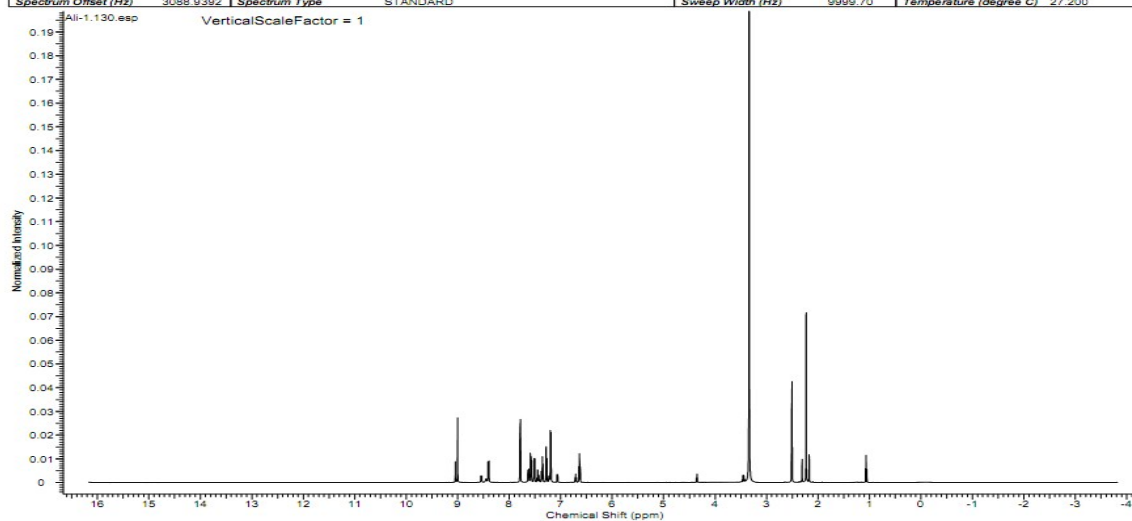


Figure S5: ¹H-NMR spectrum of the complex 2

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Acquisition Time (sec)	1.1010	Comment	MAA001	Date	09 Dec 2014 00:04:16	Frequency (MHz)	125.78
Date Stamp	09 Dec 2014 00:04:16	File Name	D:\NMR data\Ali-111311.fid		Owner	nmr	
Nucleus	¹³ C	Number of Transients	1024	Origin	spect	Original Points Count	32768
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Temperature (degree C)	27.200						

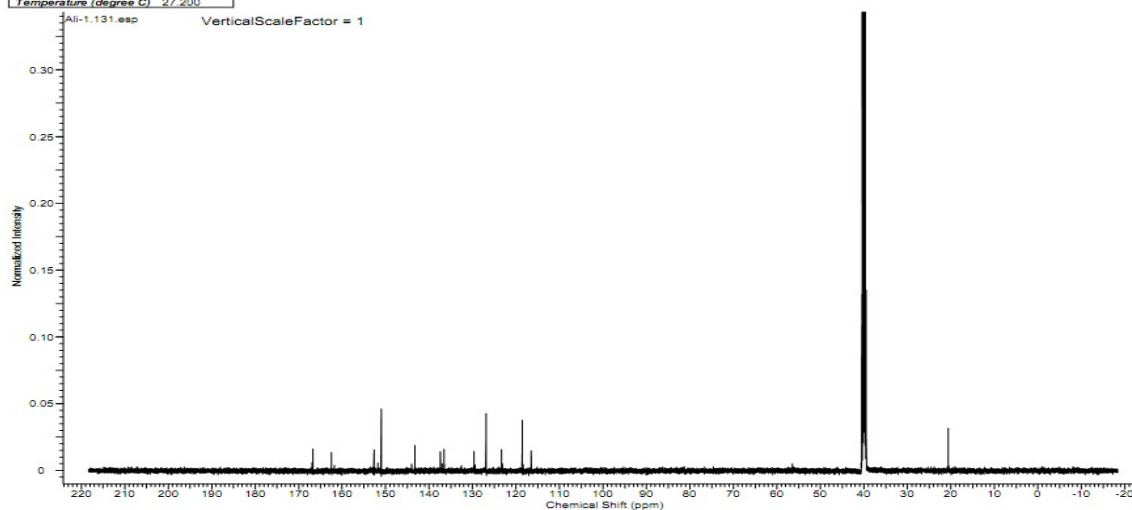


Figure S6: ¹³C-NMR spectrum of the complex 2

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4/6/2015 1:39:43 PM

Acquisition Time (sec)	3.2768	Comment	MAA002	Date	09 Dec 2014 00:08:32	Frequency (MHz)	500.20	
Date Stamp	09 Dec 2014 00:08:32	File Name	D:\NMR data\Ali-1140\fid		Origin	nmr		
Nucleus	¹ H	Number of Transients	16	Original Points Count	32768	Solvent	DMSO-d6	
Points Count	32768	Pulse Sequence	zg30	Receiver Gain	94.75	SW (cycles)	10000.00	
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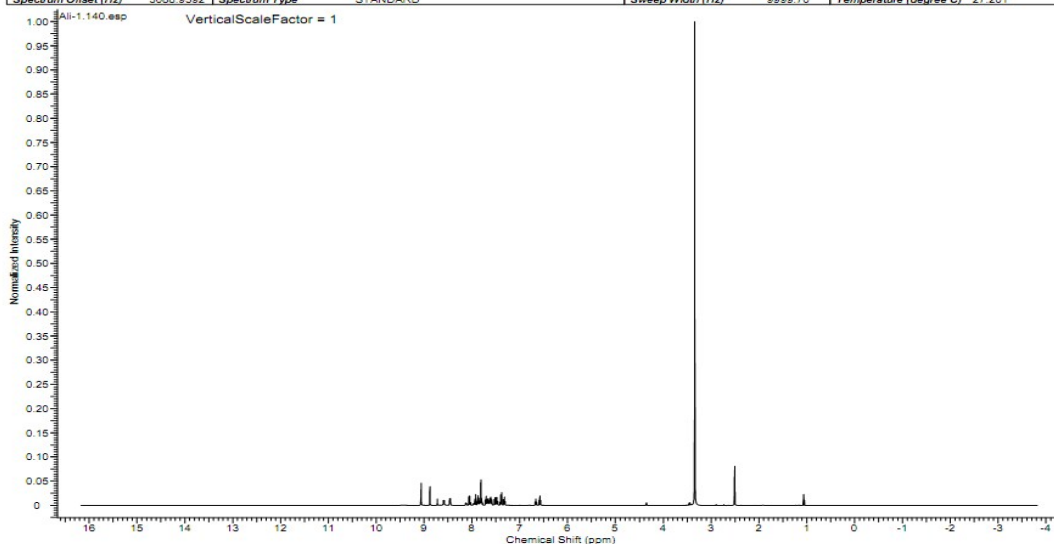


Figure S7: ¹H-NMR spectrum of the complex 3

This report was created by ACD/NMR Processor Academic Edition. For more information go to www.acdlabs.com/nmrproc/

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Acquisition Time (sec)	1.1010	Comment	MAA002	Date	09 Dec 2014 01:04:00	Frequency (MHz)	125.78	
Date Stamp	09 Dec 2014 01:04:00	File Name	D:\NMR data\Ali-1141\fid		Origin	nmr		
Nucleus	¹³ C	Number of Transients	1024	Original Points Count	32768	Solvent	DMSO-d6	
Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	190.40	SW (cycles)	29781.90	
Spectrum Offset (Hz)	12379.3844	Spectrum Type	STANDARD		Sweep Width (Hz)	29781.00	Temperature (degree C)	27.199

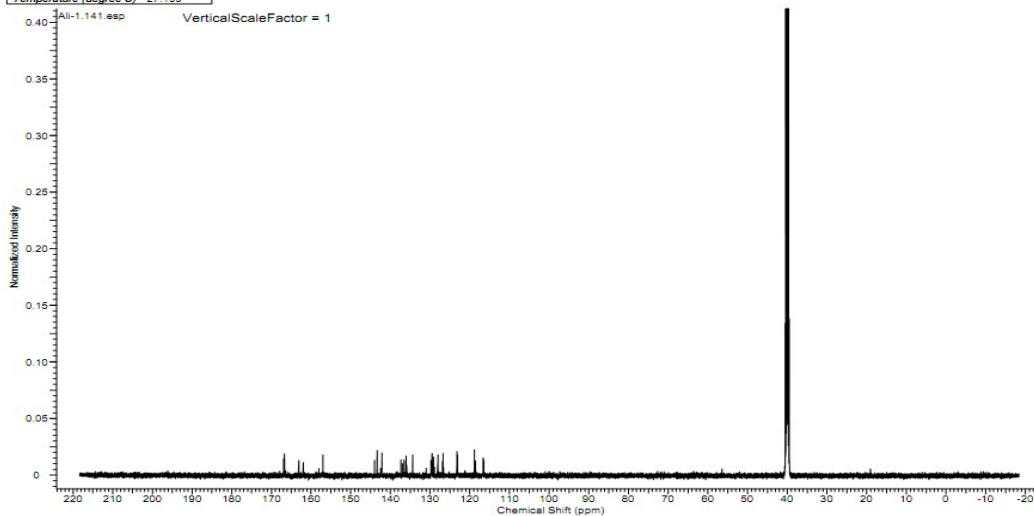


Figure S8: ¹³C-NMR spectrum of the complex 3