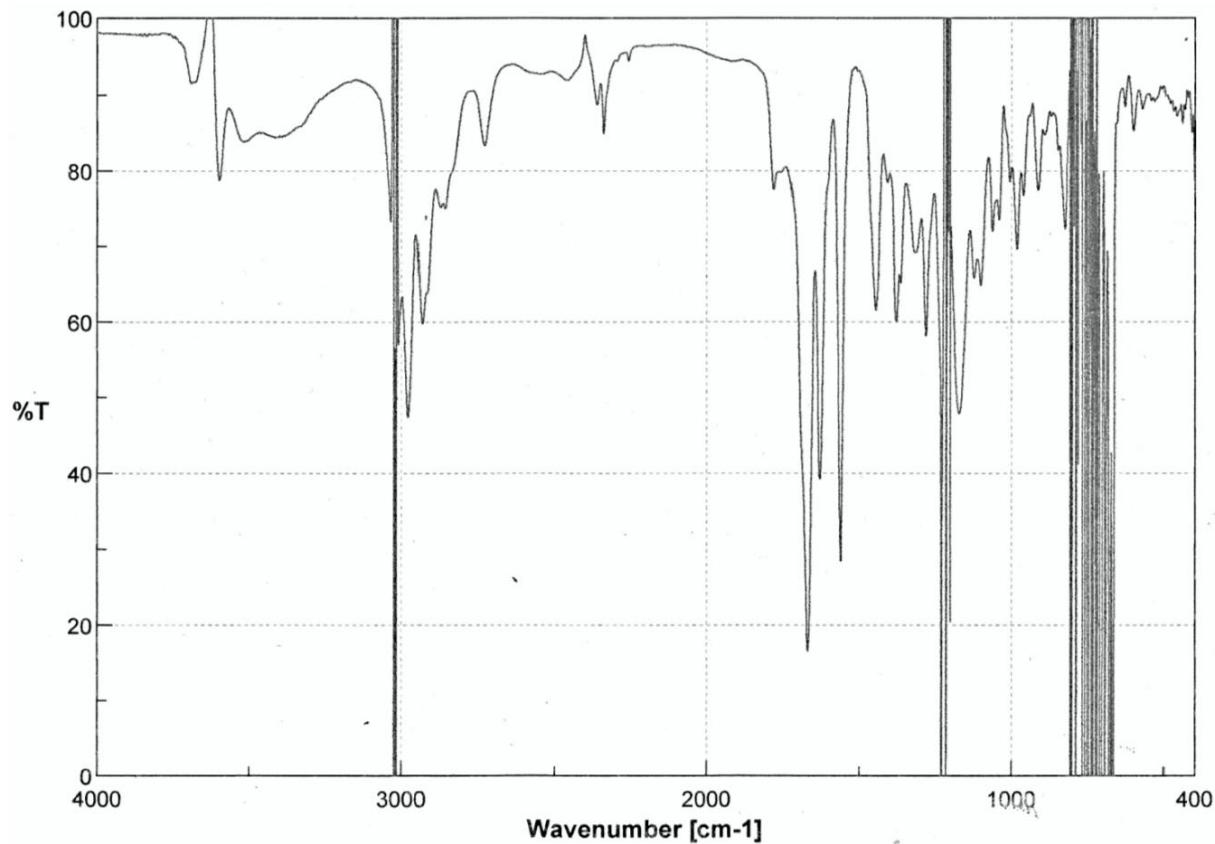


# Supplementary Materials

**Figure S1.** IR spectrum of cubelin.



**Accumulation:** 4  
**Resolution:** 4 cm<sup>-1</sup>  
**Zero Filling:** ON  
**Apodization:** Cosine  
**Gain:** Auto (2)  
**Aperture:** Auto (7.1 mm)  
**Scan Speed:** Auto (2 mm/sec)  
**User:**  
**Acquisition Date:** 2013/11/16 17:42  
**Modify Date:** 2013/11/25 19:31  
**File Name:** C1-4mg.jws  
**Sample Name:**  
**Comment:**

**Figure S2.** HRESIMS spectrum of cubelin.**Elemental Composition Report****Page 1****Single Mass Analysis**

Tolerance = 50.0 mDa / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions

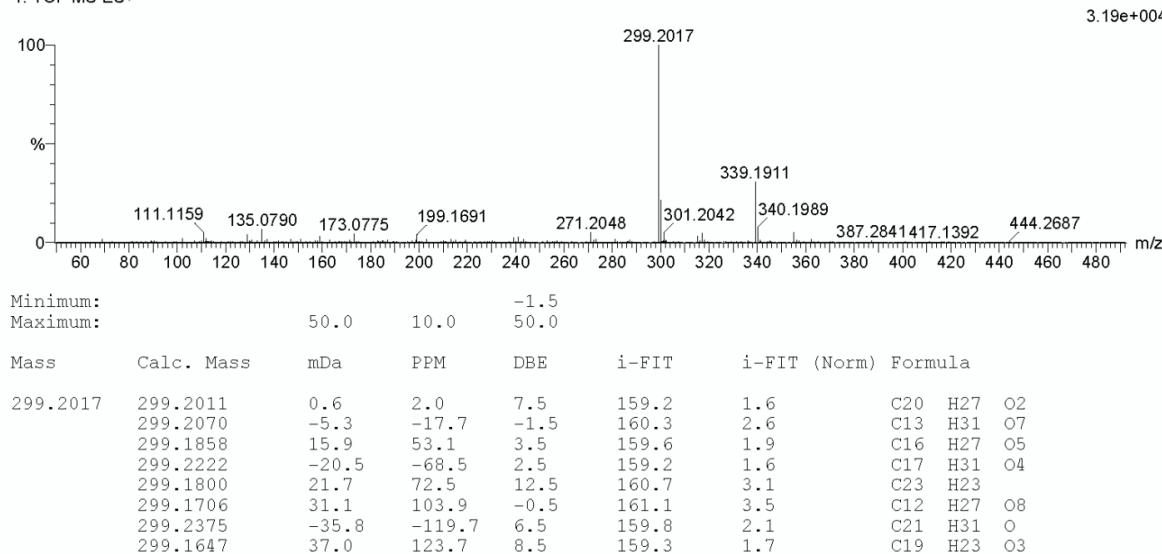
56 formula(e) evaluated with 8 results within limits (all results (up to 1000) for each mass)

Elements Used:

C: 0-30 H: 0-1000 O: 0-200

131118\_1\_2 619 (4.769)

1: TOF MS ES+



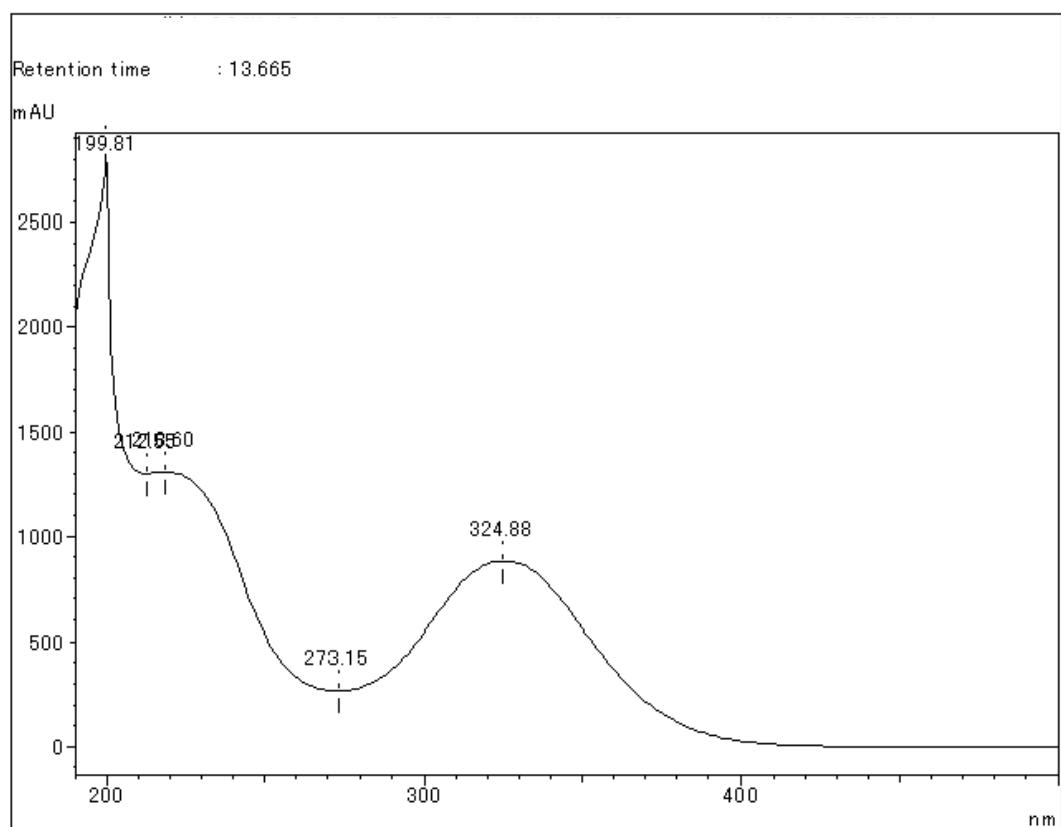
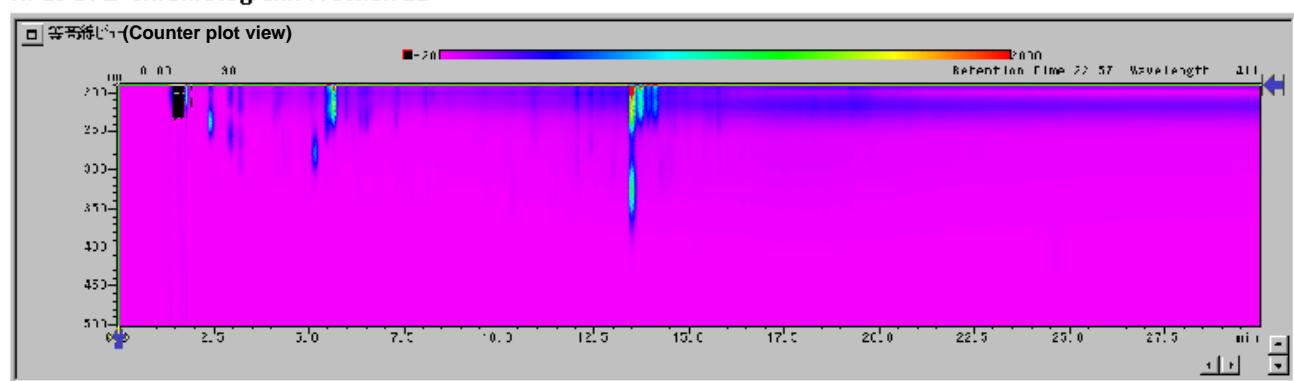
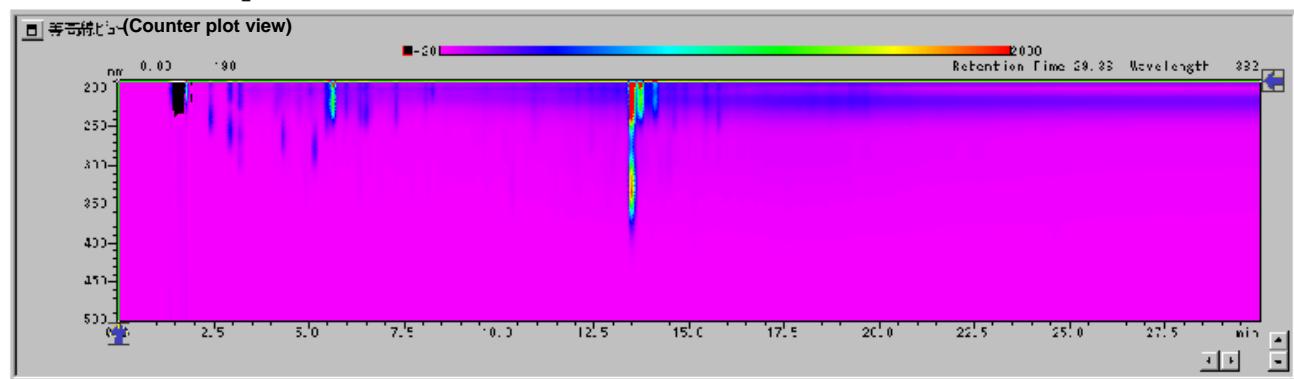
**Figure S3.** UV-VIS spectrum of cubelin.**HPLC-DAD Chromatogram: Fraction 11****HPLC-DAD Chromatogram: Fraction 12**

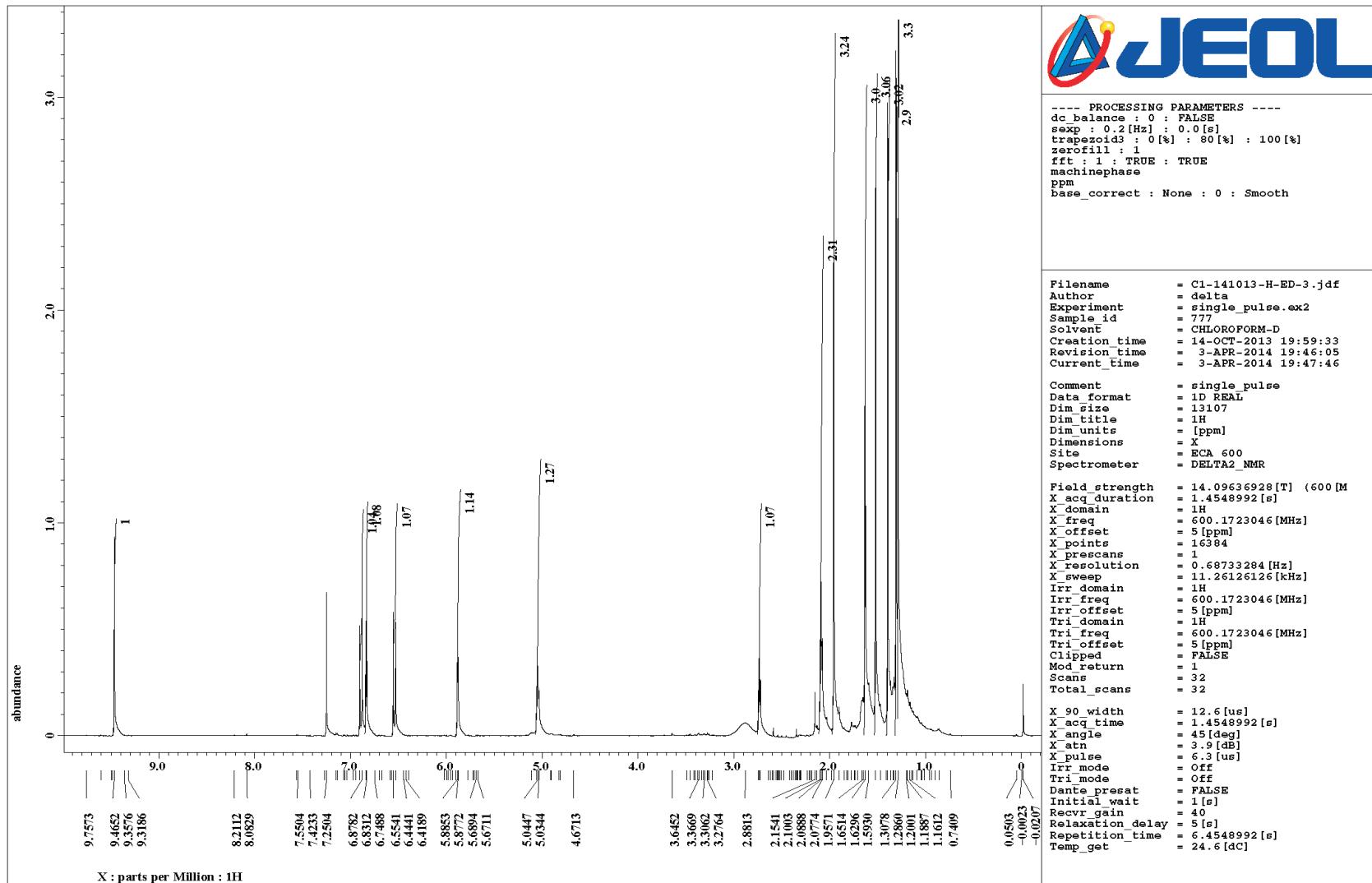
Figure S4.  $^1\text{H}$ -NMR spectrum of cubelin.

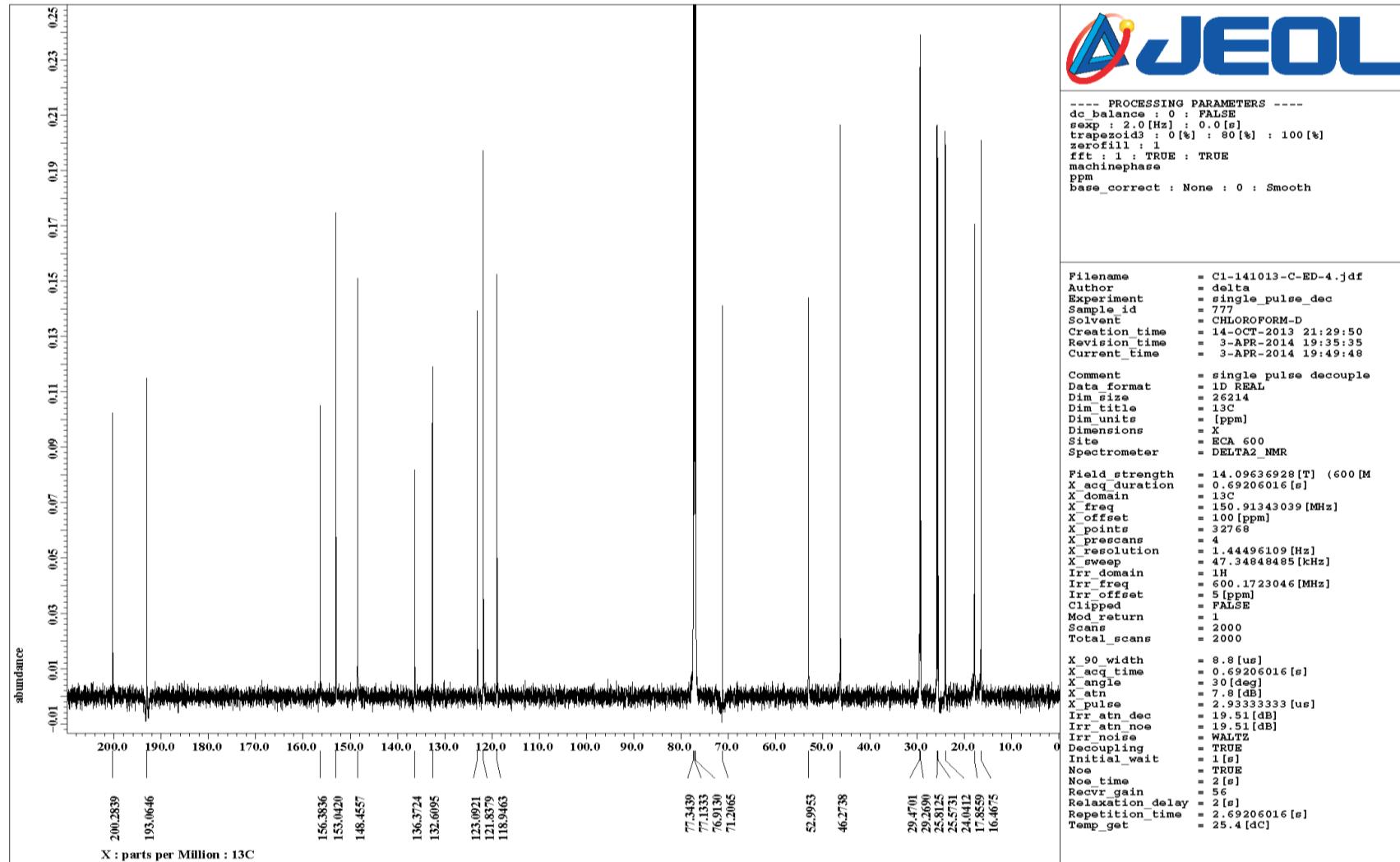
Figure S5.  $^{13}\text{C}$ -NMR spectrum of cubelin.

Figure S6. DEPT-45 NMR spectrum of cubelin.

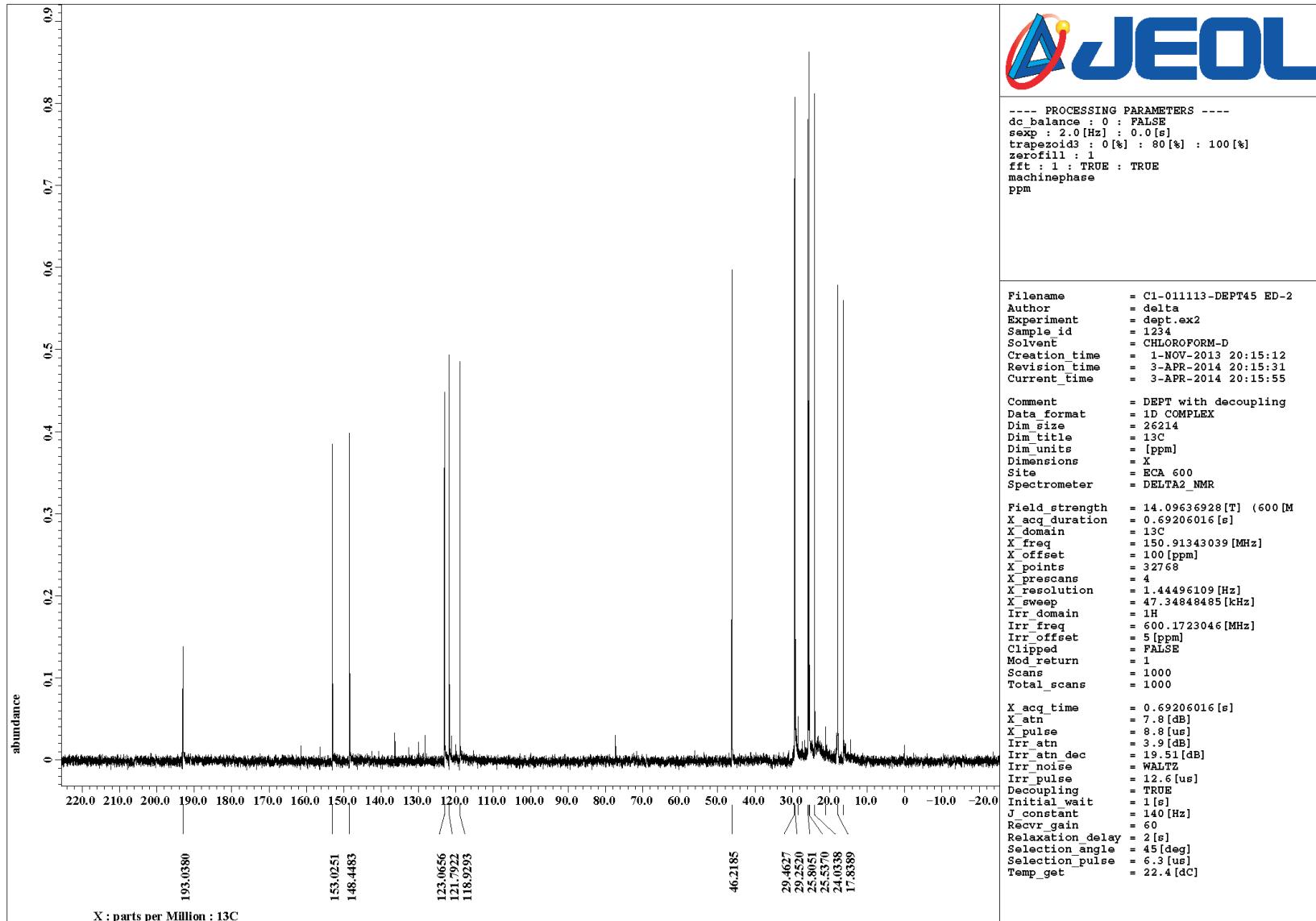


Figure S7. DEPT-90 NMR spectrum of cubelin

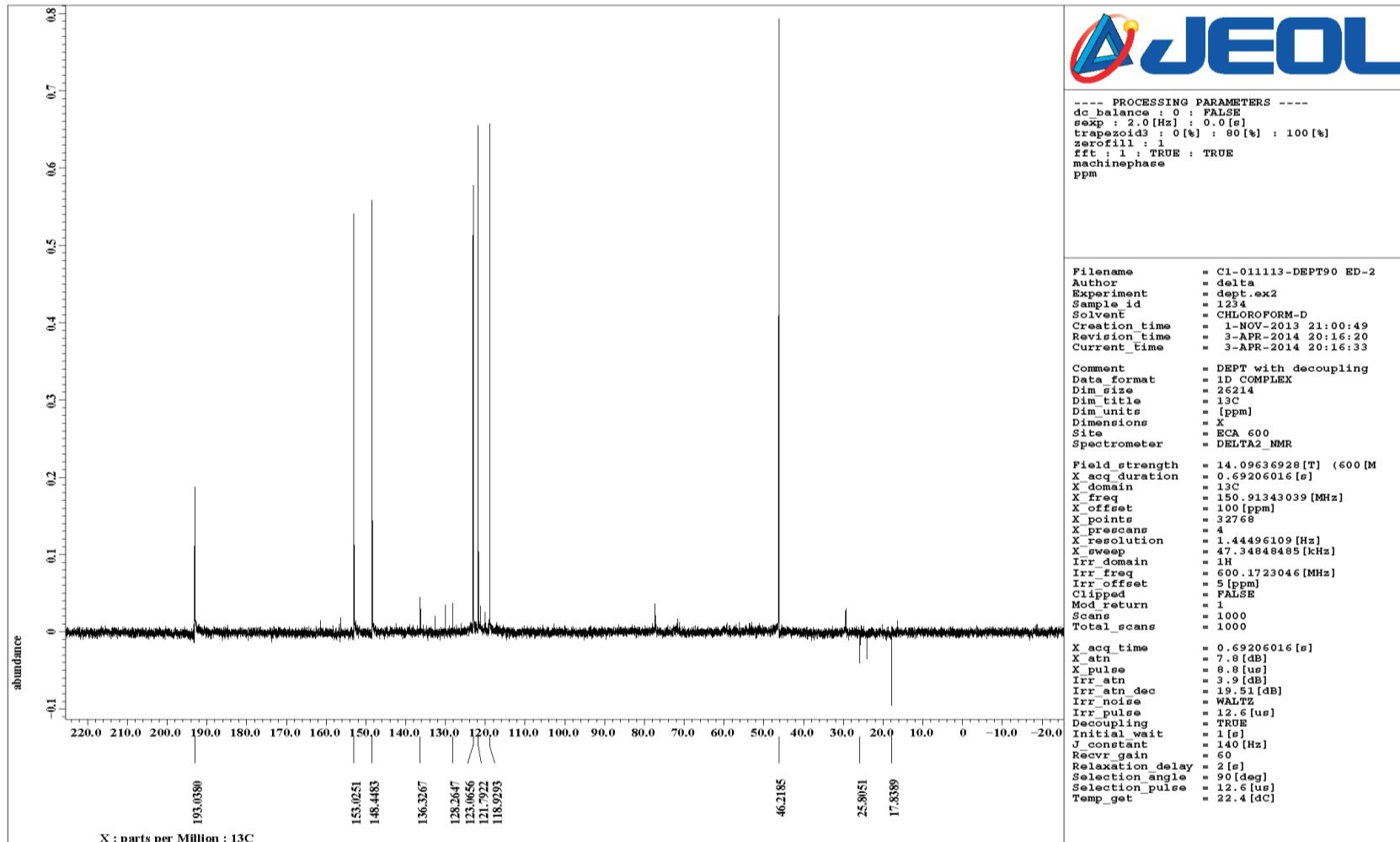


Figure S8. DEPT-135 NMR spectrum of cubelin.

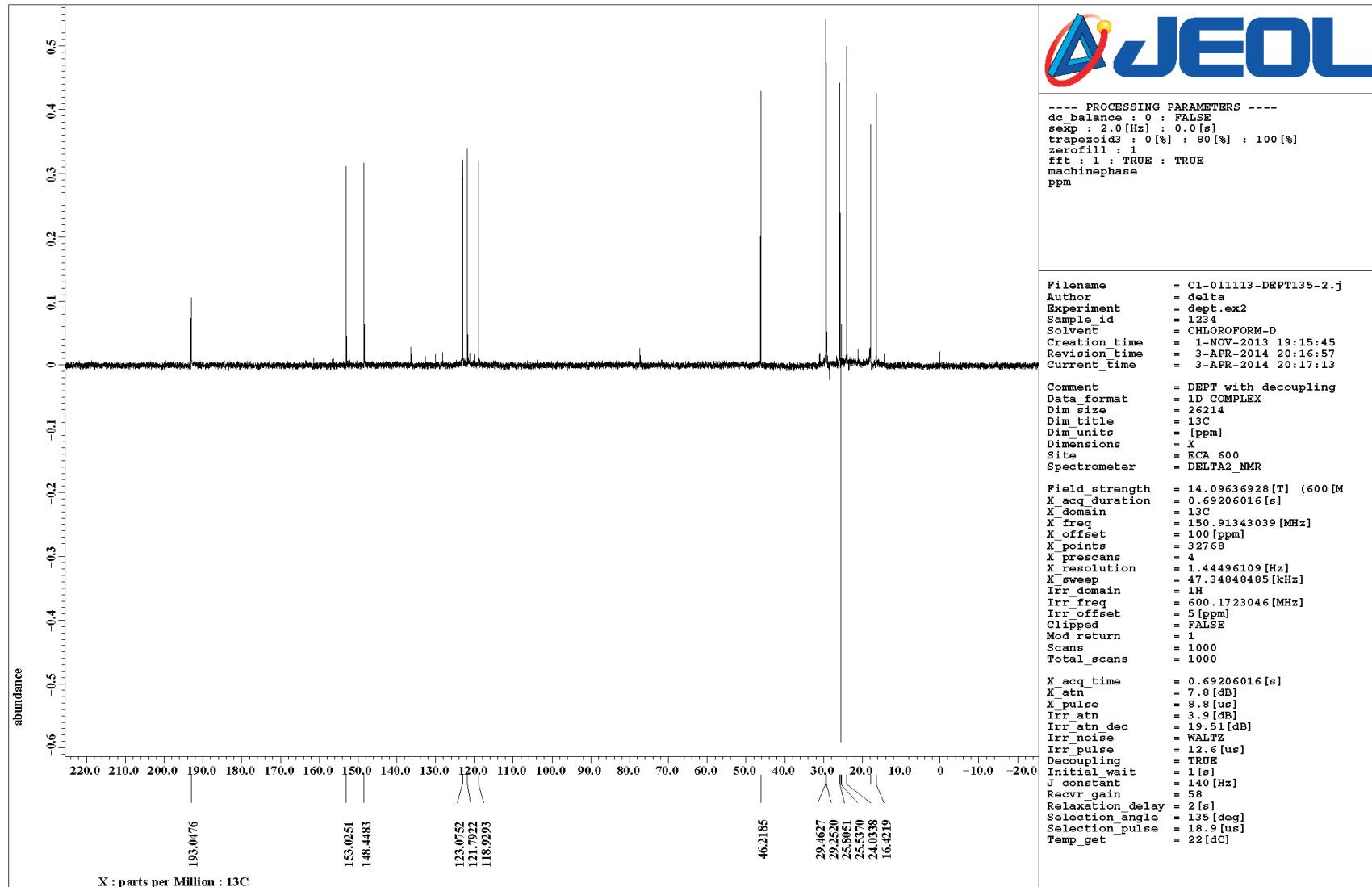


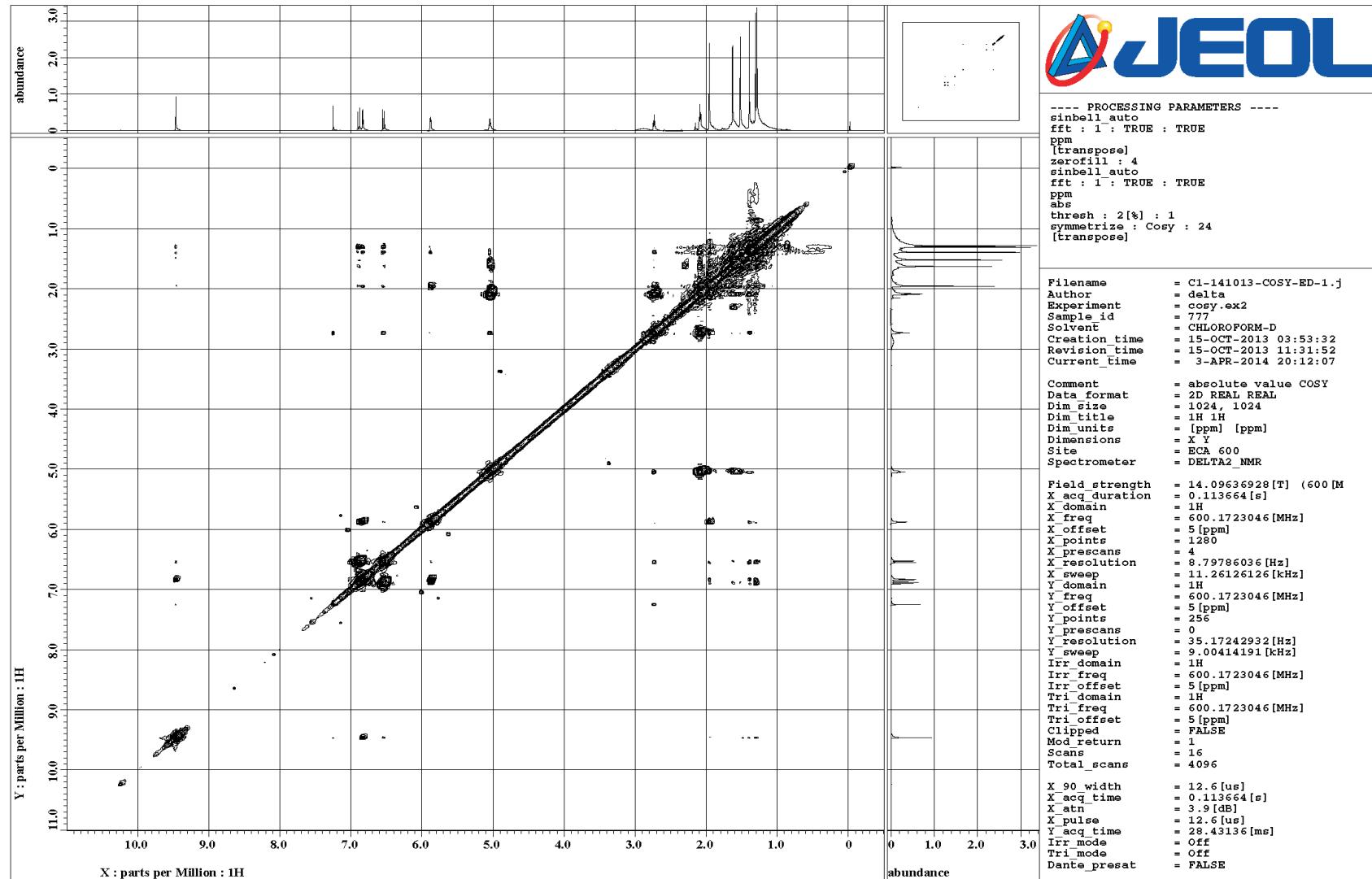
Figure S9.  $^1\text{H}$ - $^1\text{H}$  COSY NMR spectrum of cubelin

Figure S10. HETCOR NMR spectrum of cubelin

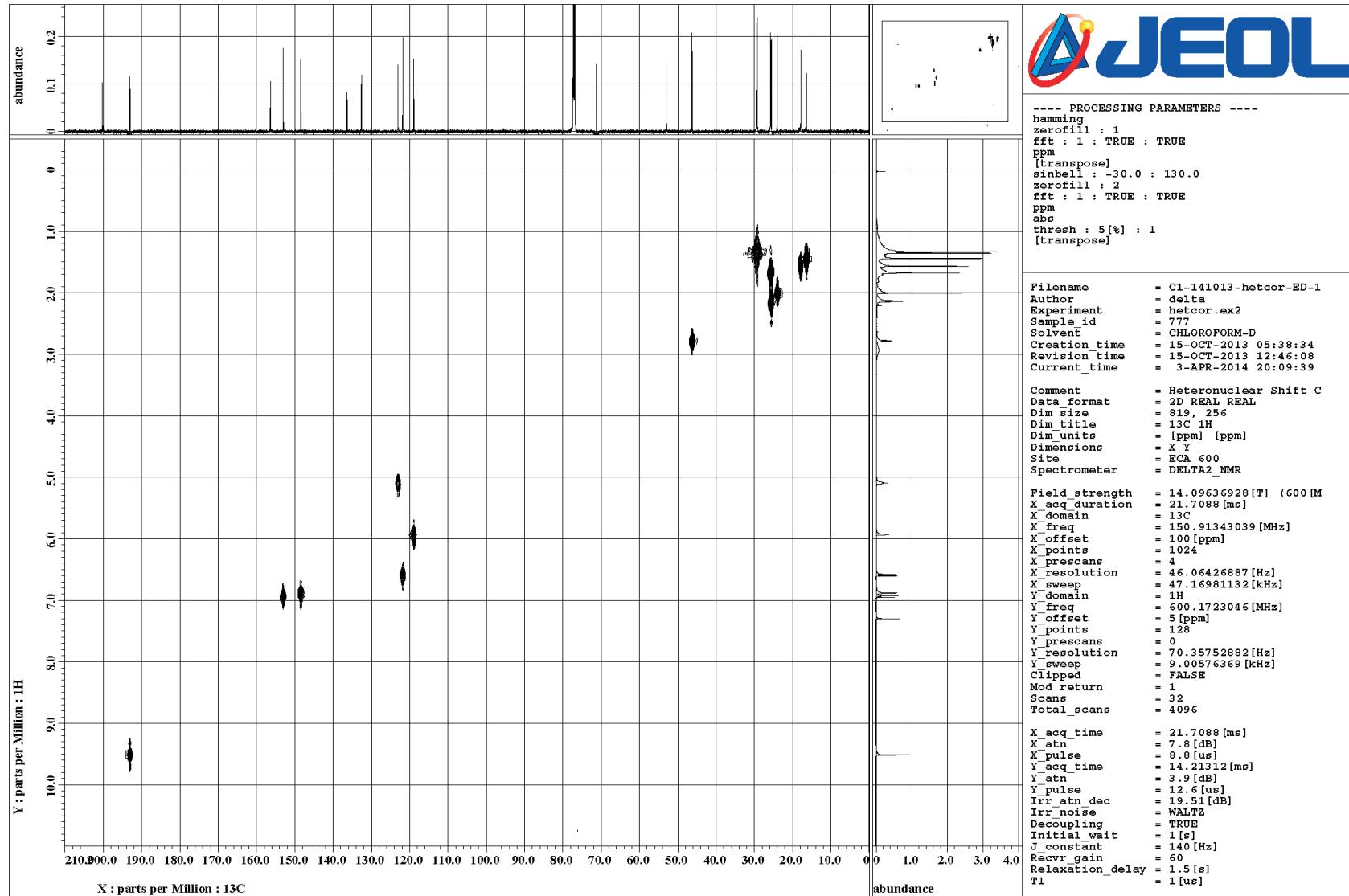


Figure S11. HMBC NMR spectrum of cubelin

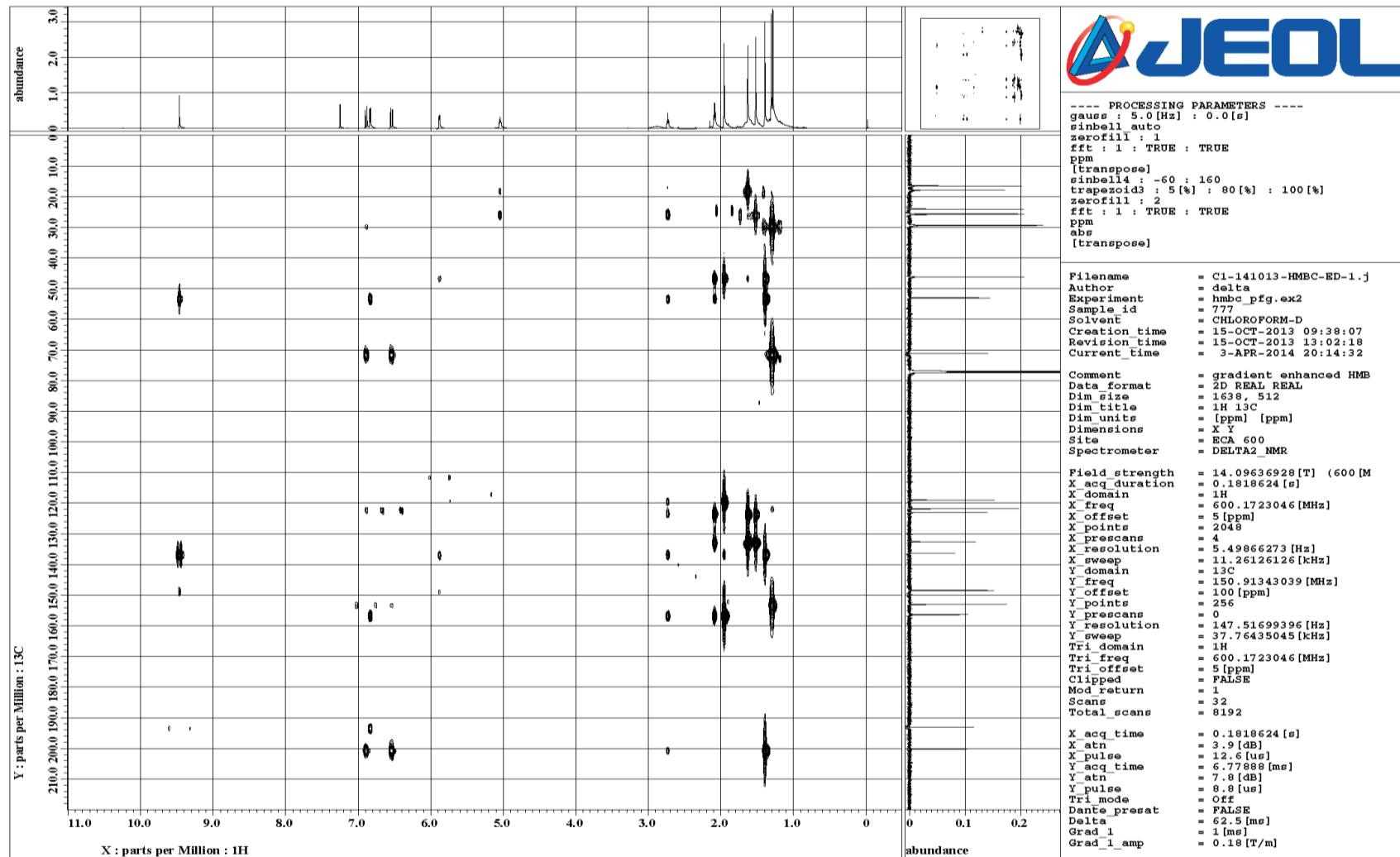
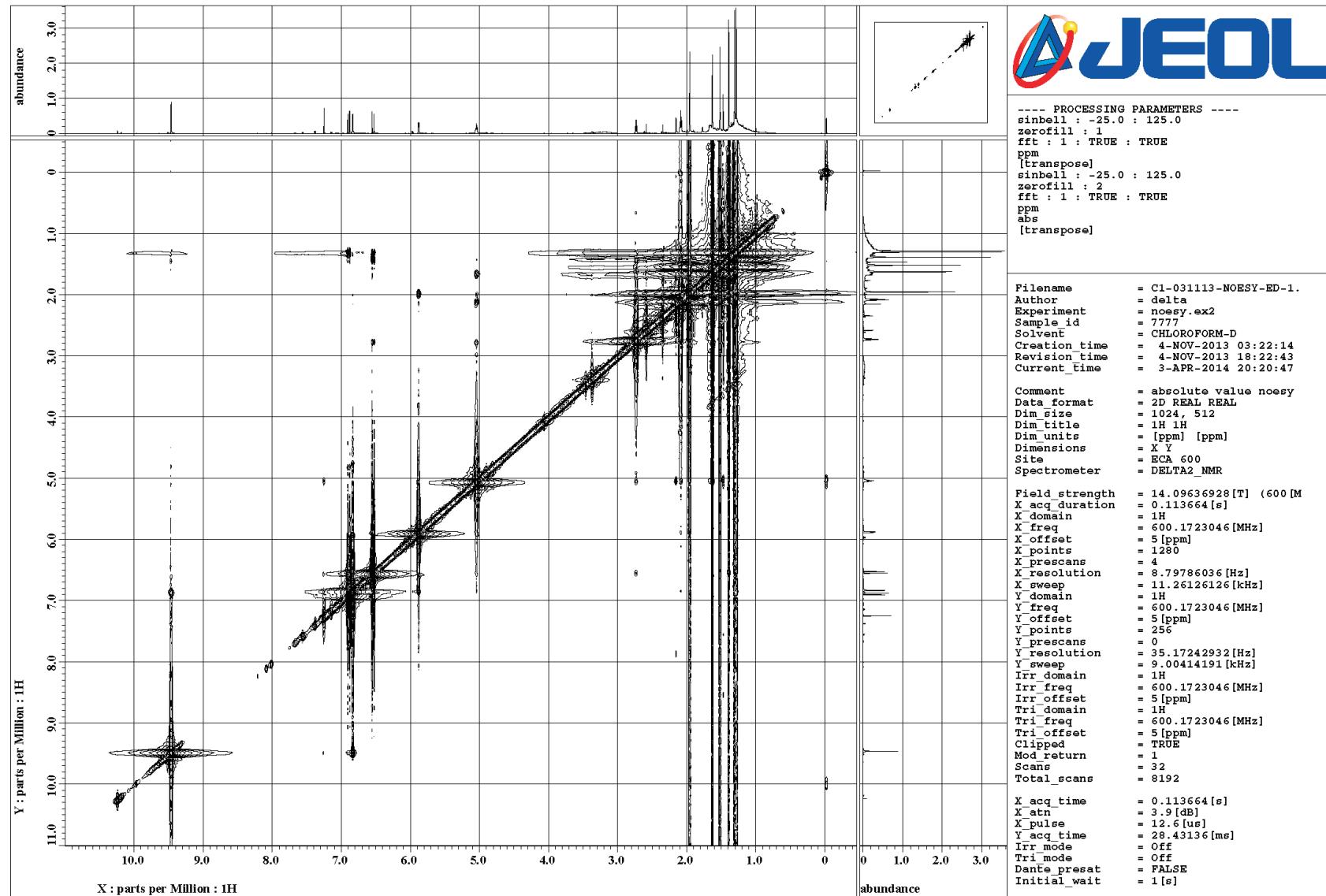


Figure S12. NOESY NMR spectrum of cubelin



**Figure S13.** Specific Optical Rotation data of cubelin

Model : P-1030 (A010160639)		No.	Sample	Mode	Data	Monitor	Temp.	HTV	Date	Blank	Cell	length	Conc.	[Alpha]	Sugar	Coeff	[Alpha]STD	Brix Conc.	Factor	Temp. (STD)	Temp Coef	Light	Filter	Cycle Time
Comment	Sample Name				Specific O.R.		272.650		0.5453	20.2	406	Sat Dec 07 13:36:34 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	1	(1/10)		Holder		274.550		0.5491	20.1	386	Sat Dec 07 13:36:55 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	2	(2/10)		Holder		275.200		0.5504	20.1	410	Sat Dec 07 13:37:15 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	3	(3/10)		Holder		275.050		0.5501	20.1	390	Sat Dec 07 13:37:35 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	4	(4/10)		Holder		273.350		0.5467	20.1	390	Sat Dec 07 13:37:56 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	5	(5/10)		Holder		273.950		0.5479	20.1	401	Sat Dec 07 13:38:16 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	6	(6/10)		Holder		274.250		0.5485	20.2	382	Sat Dec 07 13:38:36 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	7	(7/10)		Holder		274.000		0.5480	20.2	405	Sat Dec 07 13:38:57 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	8	(8/10)		Holder		273.250		0.5465	20.1	406	Sat Dec 07 13:39:17 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	9	(9/10)		Holder		274.000		0.5480	20.1	398	Sat Dec 07 13:39:37 2013	0.0000	10.00	2.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	10	(10/10)		Holder		277.600		0.2776	20.1	390	Sat Dec 07 13:44:29 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	11	(2/10)		Holder		279.200		0.2792	20.2	375	Sat Dec 07 13:44:49 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	12	(2/10)		Holder		276.300		0.2763	20.2	382	Sat Dec 07 13:45:10 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	13	(3/10)		Holder		272.400		0.2724	20.1	398	Sat Dec 07 13:45:30 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	14	(4/10)		Holder		274.500		0.2745	20.1	382	Sat Dec 07 13:45:50 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	15	(5/10)		Holder		275.700		0.2757	20.1	378	Sat Dec 07 13:46:11 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	16	(6/10)		Holder		275.800		0.2758	20.1	404	Sat Dec 07 13:46:31 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	17	(7/10)		Holder		276.500		0.2765	20.2	374	Sat Dec 07 13:46:51 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	18	(8/10)		Holder		278.800		0.2788	20.2	405	Sat Dec 07 13:47:12 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec
C1_Litsea	a	19	(9/10)		Holder		277.400		0.2774	20.2	378	Sat Dec 07 13:47:32 2013	0.0000	10.00	1.0000	0.000	17.313	66.450	1.00	1.0000	20.0	0.00000 Na	589nm	20 sec 5 sec