

Supporting information for

H-bonds, π -Stacking and (water)O-H/ π Interactions in (μ_4 -EDTA)bis(Imidazole)Dicopper(II) Dihydrate

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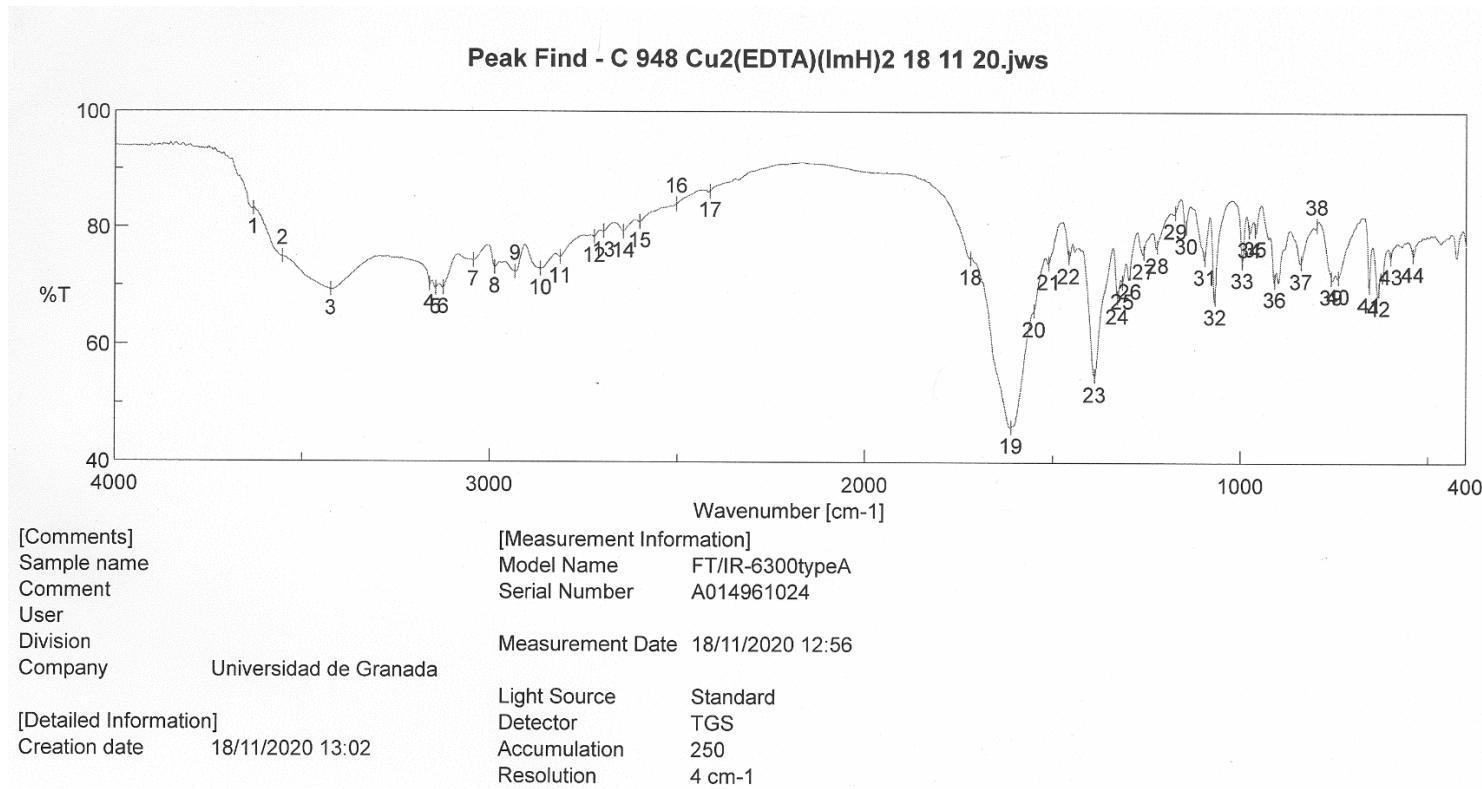
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* Samples for these purposes have been studied in crystalline solid phase.

SI.1. Infrared spectrum of 1.



[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3632.27	83.0674	2	3553.2	74.7989	3	3423.99	69.2203
4	3160.76	70.1746	5	3144.37	69.498	6	3124.12	69.546
7	3045.05	74.2554	8	2988.16	73.0779	9	2934.16	72.3493
10	2865.7	72.8115	11	2813.63	74.8136	12	2723	78.3235
13	2697.93	79.2396	14	2645.86	79.1624	15	2602.47	80.8561
16	2505.08	83.9024	17	2414.44	86.1417	18	1720.19	74.6849
19	1611.23	46.0034	20	1550.49	65.7933	21	1511.92	73.8609
22	1458.89	74.9123	23	1389.46	54.7883	24	1329.68	68.0765
25	1316.18	70.6167	26	1295.93	72.3295	27	1259.29	75.7344
28	1223.61	76.7152	29	1175.4	82.5774	30	1146.47	80.0333
31	1096.33	74.7104	32	1069.33	67.9539	33	997.017	74.1867
34	978.697	79.4197	35	962.305	79.5912	36	910.236	70.9855
37	839.847	74.0766	38	797.421	80.496	39	758.852	71.4501
40	740.531	71.5321	41	656.643	70.1222	42	631.573	69.54
43	599.753	74.9537	44	540.935	75.3416			

SI.2. Electronic (Reflectance) spectrum of **1**.

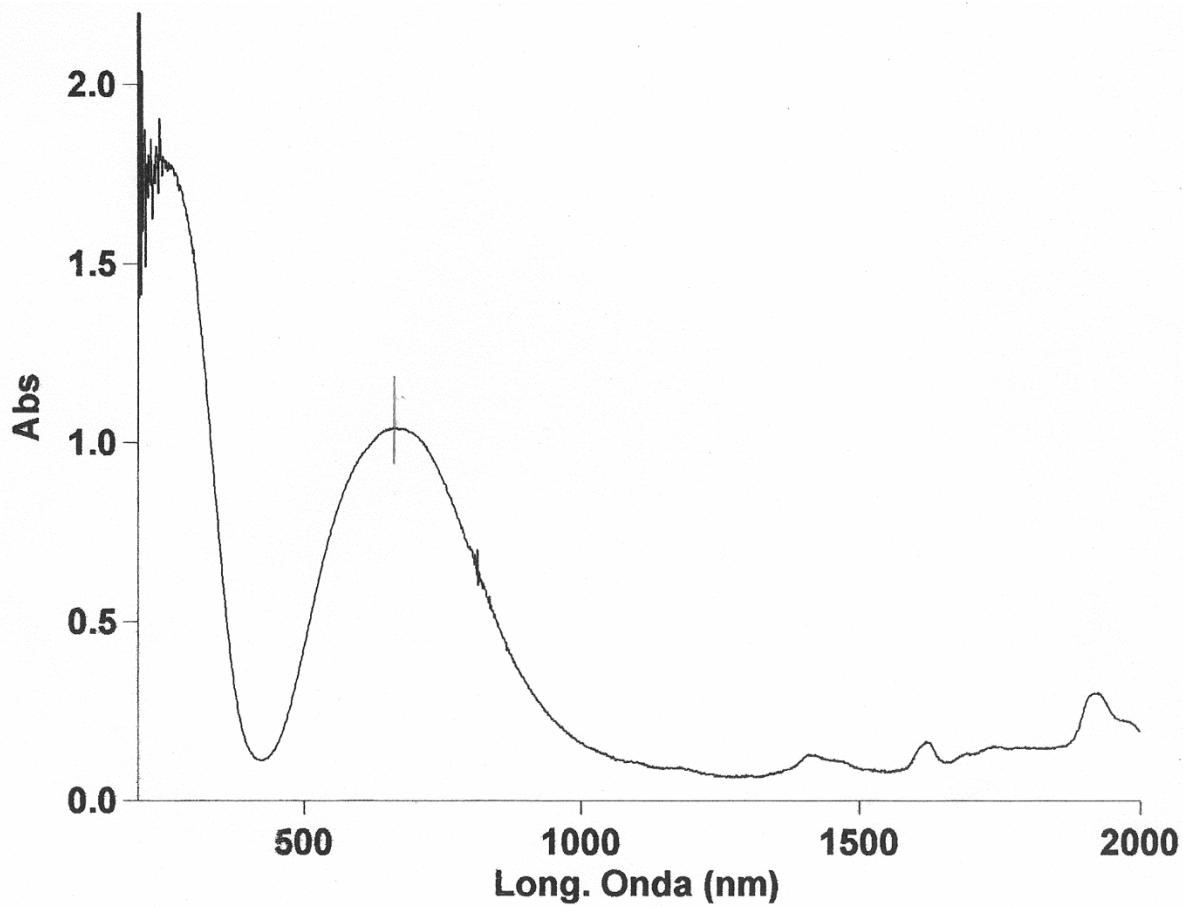


Tabla Picos

Peak Style

Umbral Picos

Rango

Picos

0.01000

2000.000nm a 200.000nm

Long. Onda (nm)	Abs
1924.000	0.303
1742.000	0.154
1620.000	0.166
1422.000	0.131
851.000	0.498
845.000	0.521
838.000	0.549
835.000	0.571
824.000	0.609
816.000	0.642
813.000	0.702
809.000	0.689
665.000	1.042
300.000	1.542
276.000	1.722
262.000	1.776
260.000	1.777
256.000	1.784
251.000	1.789

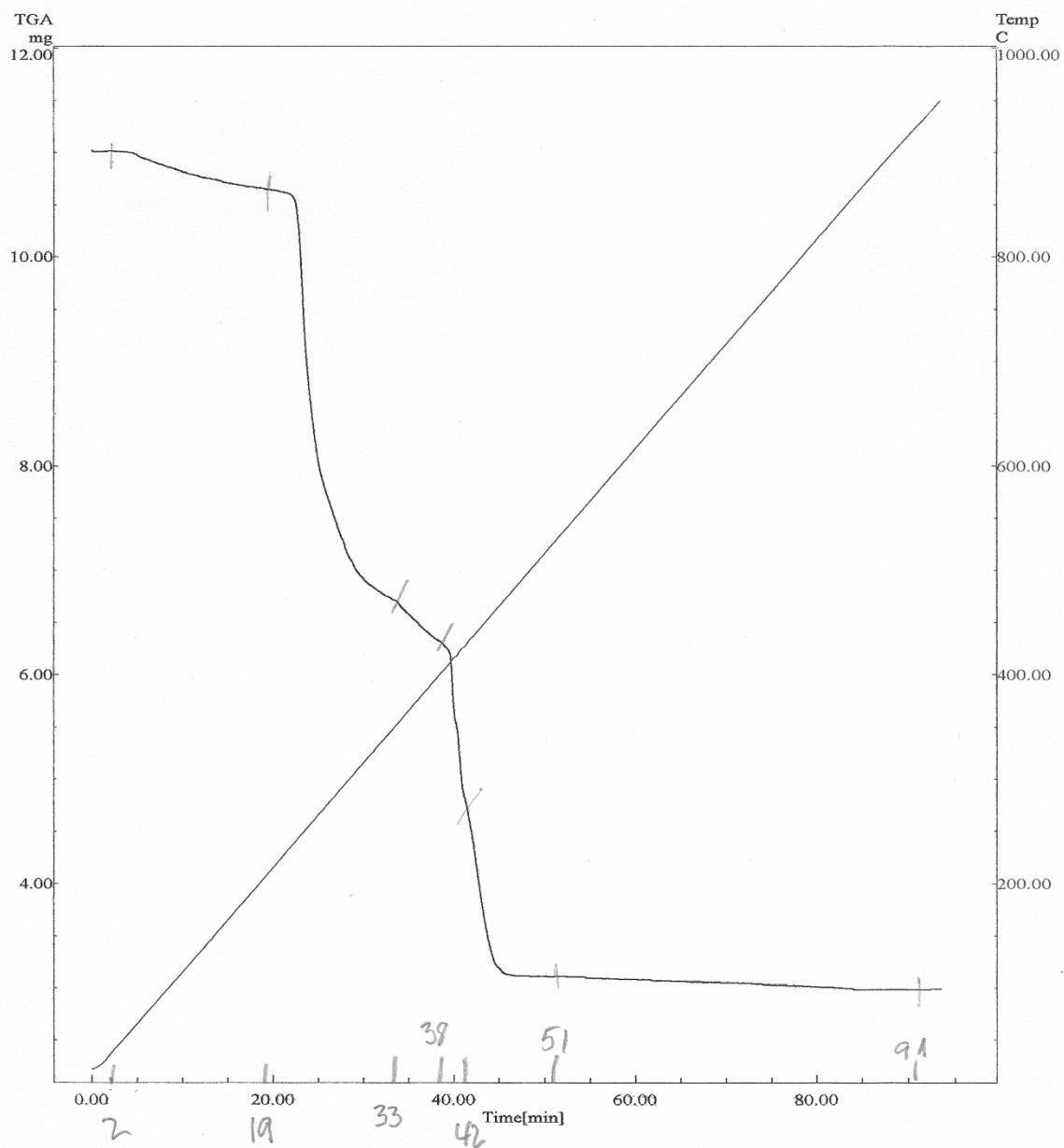
SI.3. Termogravimetric analysis (TGA) of 1 with FT-IR spectra for identification of evolved gases.

A) Plot to estimate the initial and final temperatures (°C) as well as the weight lost in each step or the final residue (%).

File Name: 20C-0004.D20
 Detector Type: Shimadzu TGA-50H
 Acquisition Date: 12/02/18
 Acquisition Time: 08:51:52
 Sample Name: C-948
 Weight: 11.03[mg]
 Cell: Alumina
 Atmosphere: Air
 Rate Flow: 100.0[ml/min]
 Operator: MASP

C-948

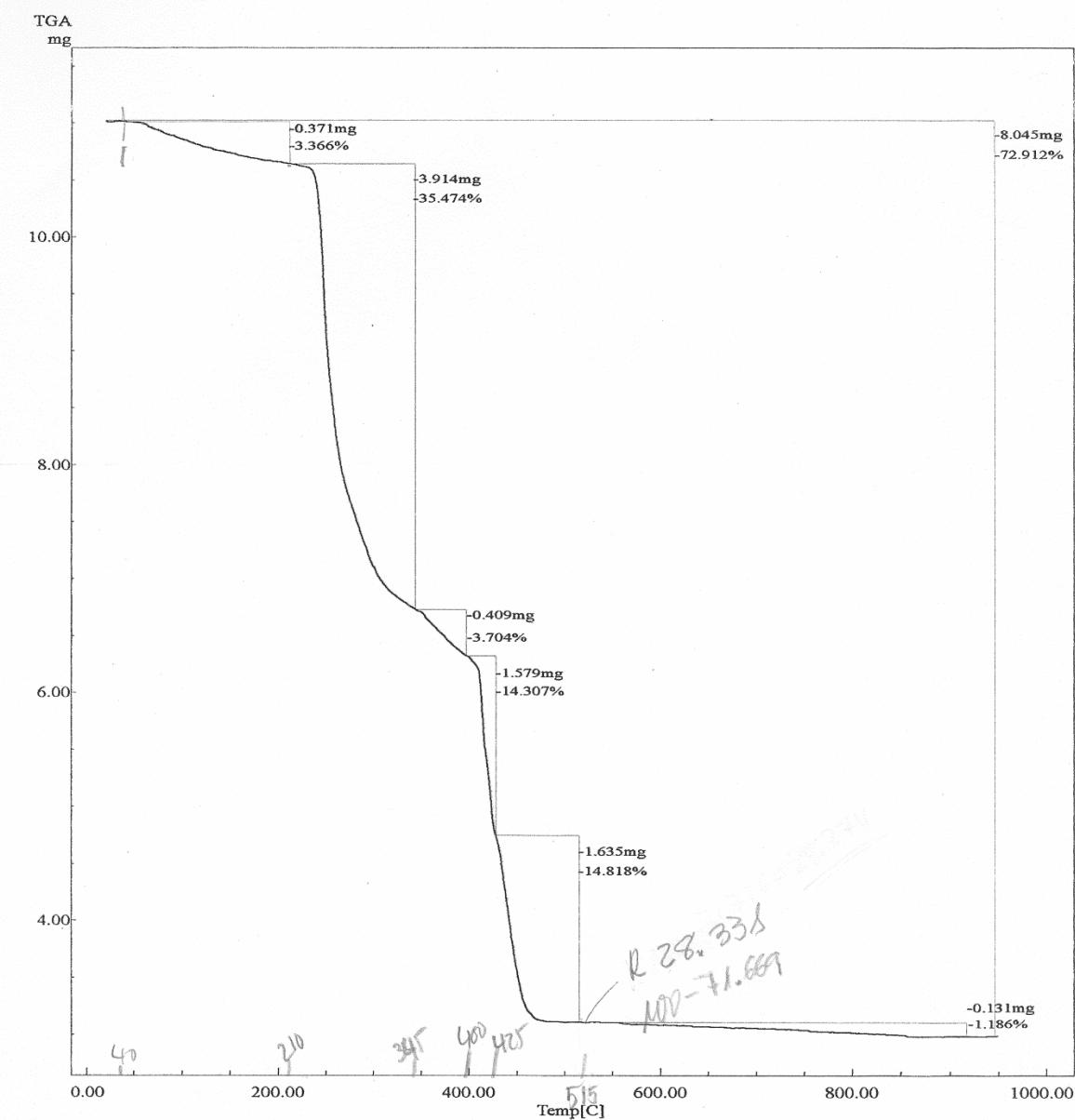
Temp Program		
Rate [C/min]	Hold Temp [C]	Hold Time [min]
10.0	950.0	0.0



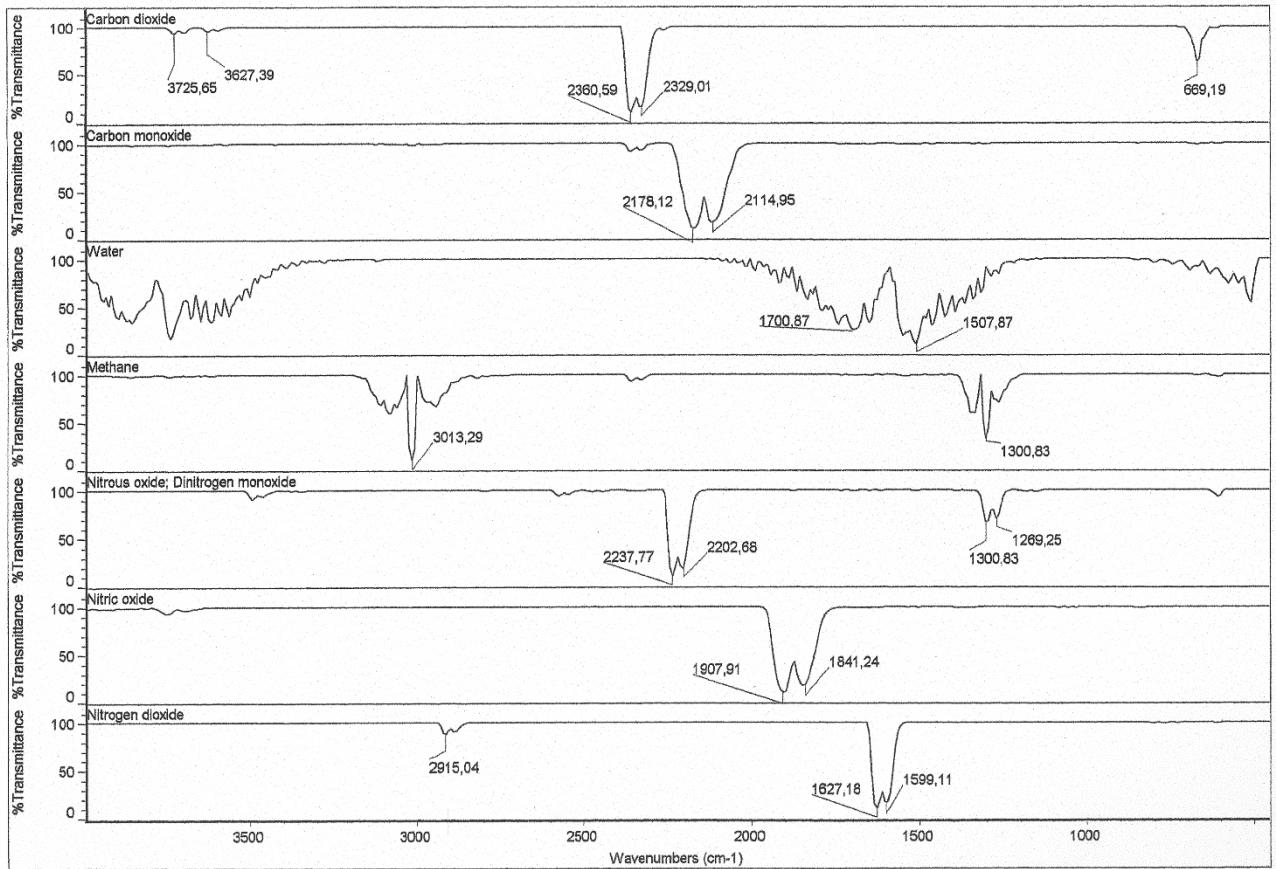
- B) Plot to estimate the initial and final time (min.) of each step as well as the time in which the final residue (CuO) has formed.

File Name: 20C-0004.D20
 Detector Type: Shimadzu TGA-50H C-948
 Acquisition Date: 12/02/18
 Acquisition Time: 08:51:52
 Sample Name: C-948
 Weight: 11.03[mg]
 Cell: Alumina
 Atmosphere: Air
 Rate Flow: 100.0[ml/min]
 Operator: MASP

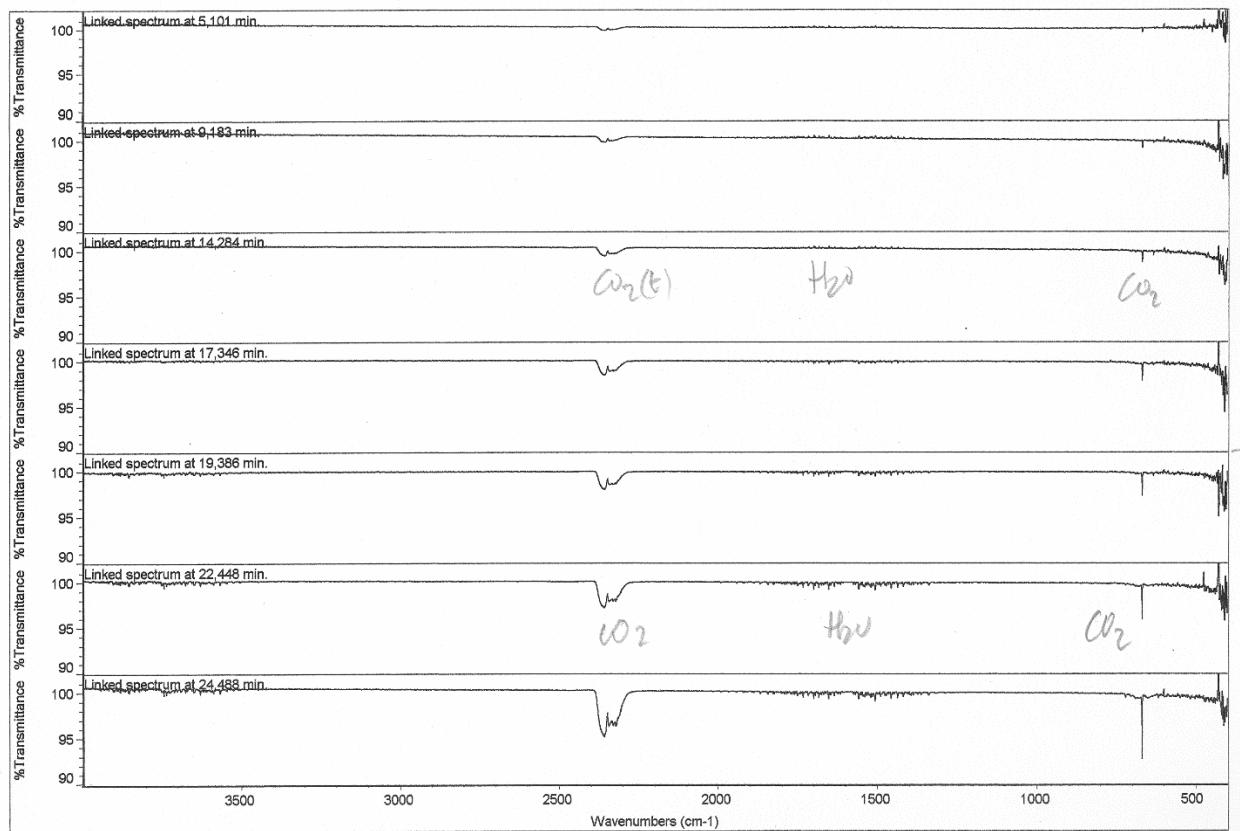
Temp Program			
Rate [C/min]	Hold Temp [C]	Hold Time [min]	
10.0	950.0	0.0	

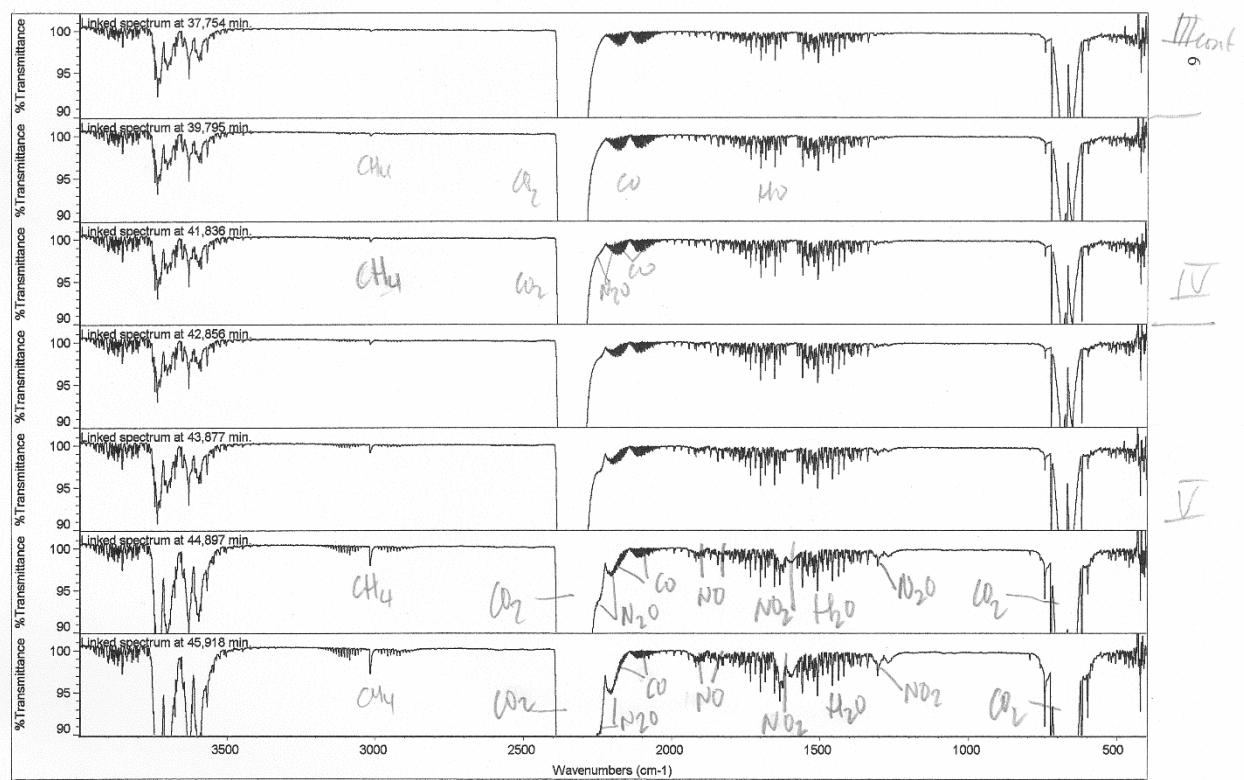
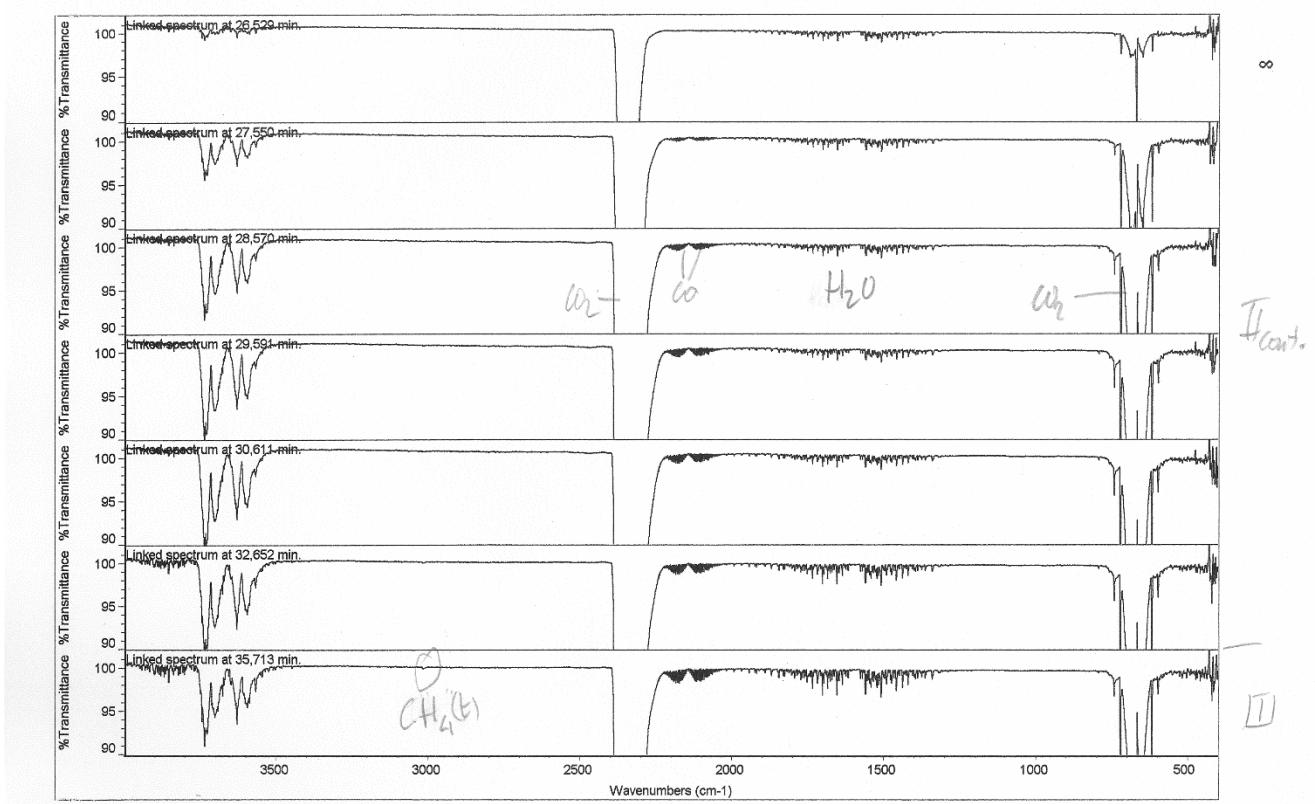


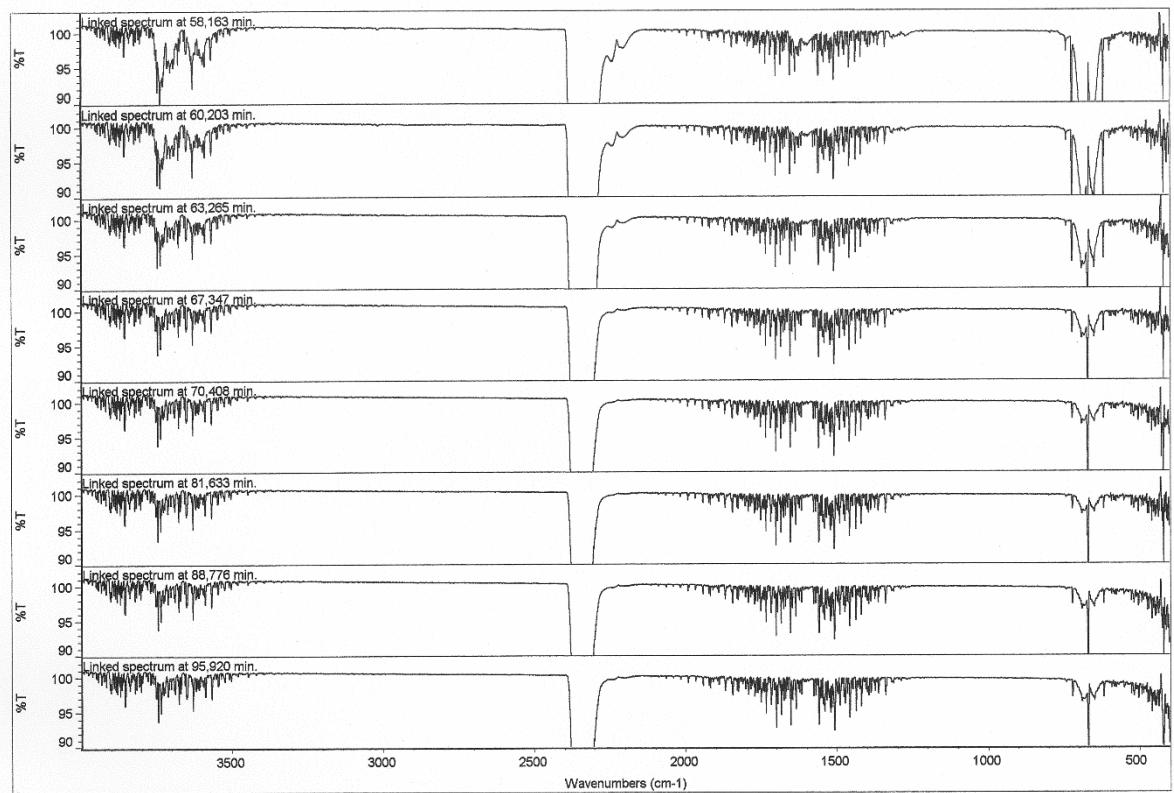
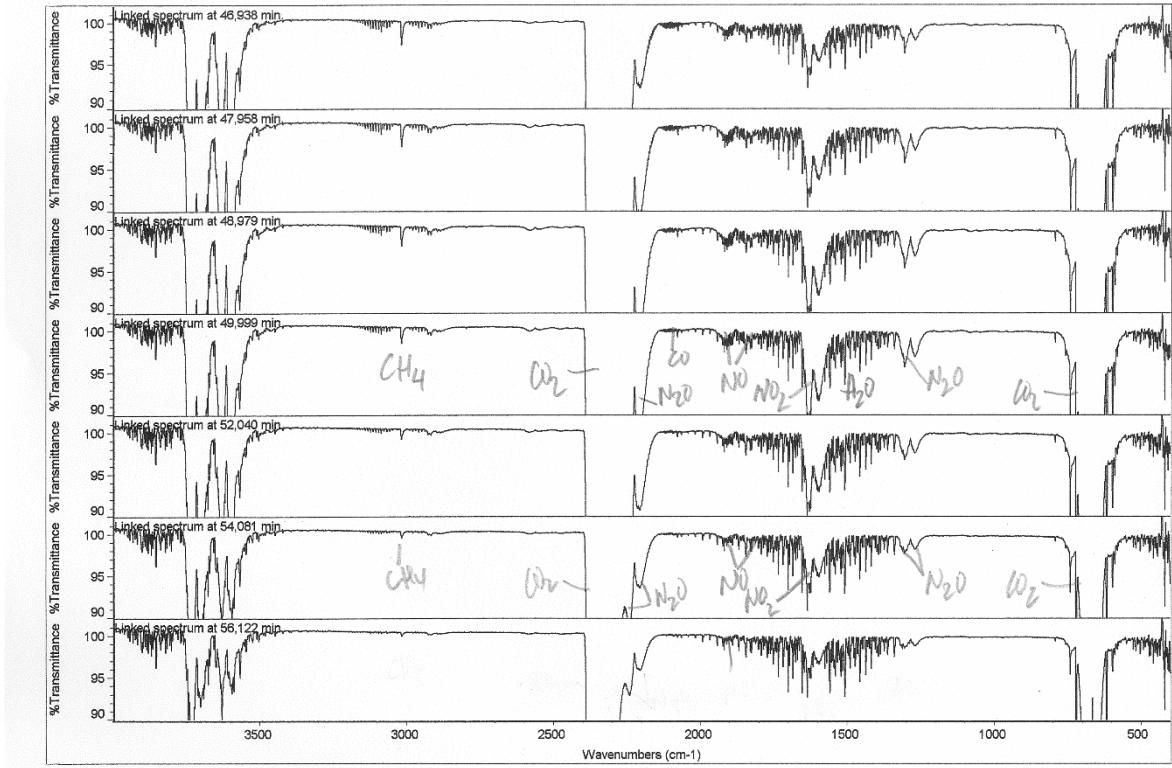
C) FT-IR spectra of identified gasses during the TGA analysis of 1.



D) Five sheets showing 36 time-spaced FT-IR spectra to identify evolved gases during the TGA of 1.







E) Three selected FT-IR spectra of step 5 (top and middle) or step 3 (down) from TGA of **1**.

