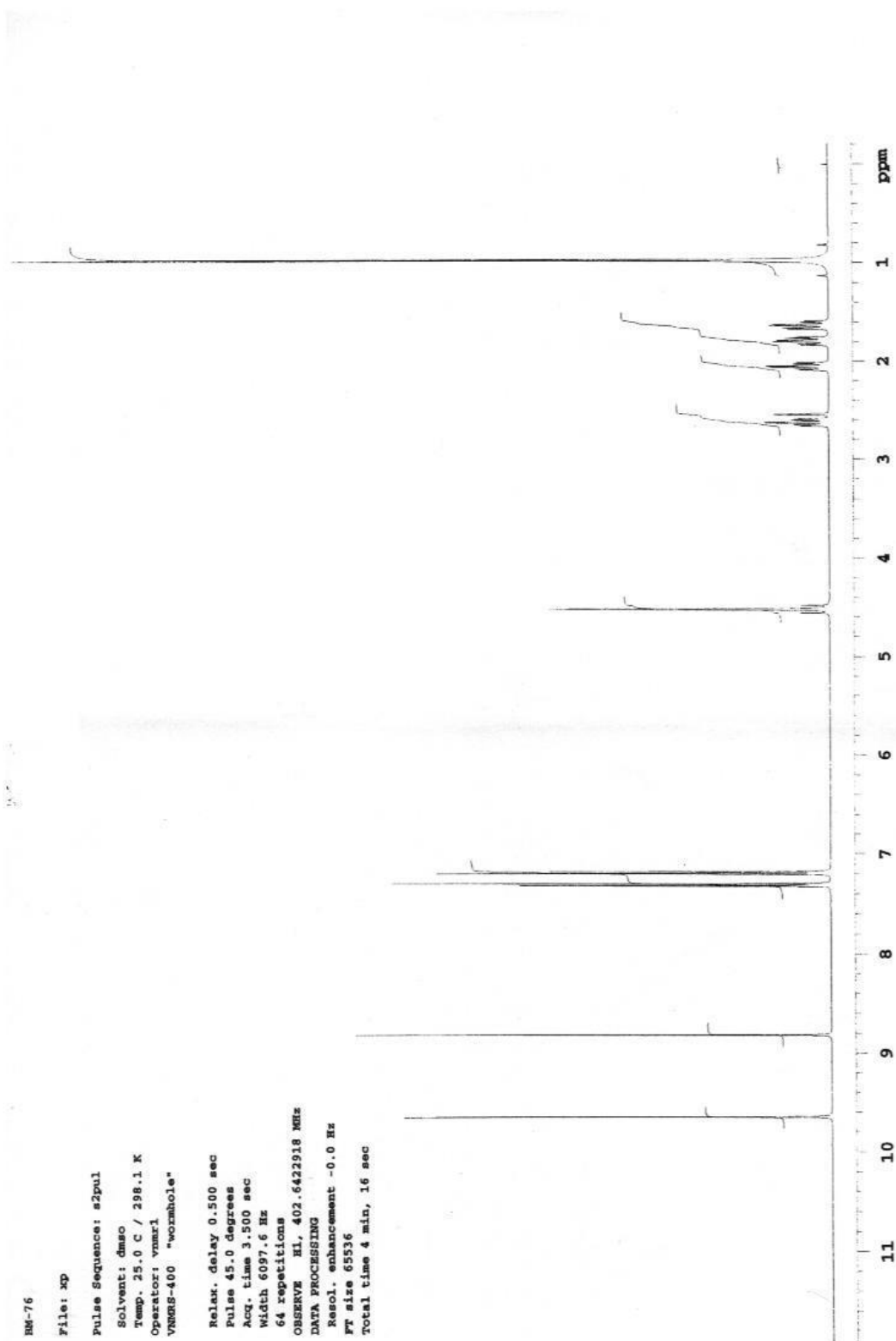


Tebuconazole hydrochloride

^1H NMR



AREA/PA	ELONGACION I	REF	AREA I	AREA II	ELONGACION I	REF	AREA I	AREA II
1	3882.2	9.642	88.3	42	453.9	1.127	453.9	2.4
2	3555.3	8.830	0.7	43	427.8	1.063	427.8	0.7
3	3548.6	8.813	98.0	44	421.7	1.047	421.7	1.0
4	2948.1	7.322	6.8	45	419.6	1.043	419.6	1.0
5	2945.7	7.316	64.0	46	411.8	1.023	411.8	1.8
6	2943.8	7.311	21.1	47	407.1	1.011	407.1	3.4
7	2937.3	7.295	60.3	48	391.9	0.972	391.9	533.9
8	2934.9	7.289	11.0	49	328.6	0.816	328.6	2.3
9	2896.2	7.193	81.3	50	0.7	0.002	0.7	0.8
10	2886.4	7.174	57.9	51	0.0	0.000	0.0	1.4
11	1833.8	4.555	6.1					
12	1819.5	4.519	57.7					
13	1817.3	4.513	53.7					
14	1802.6	4.477	9.9					
15	1871.7	2.862	5.9					
16	1867.6	2.851	7.1					
17	1858.8	2.830	13.0					
18	1854.7	2.819	13.5					
19	1845.8	2.597	7.7					
20	1841.7	2.587	7.2					
21	1824.6	2.545	8.5					
22	1823.7	2.540	11.4					
23	1821.0	2.536	8.2					
24	843.4	2.082	5.9					
25	837.4	2.080	7.1					
26	829.2	2.059	12.9					
27	824.3	2.047	13.3					
28	816.2	2.027	7.3					
29	811.3	2.015	6.7					
30	737.1	1.831	5.9					
31	732.0	1.818	6.3					
32	723.3	1.796	11.5					
33	718.5	1.784	10.8					
34	710.1	1.764	9.1					
35	705.3	1.752	7.2					
36	671.2	1.667	8.5					
37	667.1	1.657	9.5					
38	657.6	1.633	12.3					
39	653.5	1.623	11.8					
40	643.8	1.599	6.0					
41	639.3	1.589	5.0					

¹³C NMR

BM-76

File: xp

Pulse Sequence: zgpg30

Solvent: dms0

Temp. 25.0 C / 298.1 K

Operator: vms1

VMMS-400 "workhole"

Relax. delay 1.000 sec

Pulse 22.1 degrees

Acq. time 1.300 sec

Width 23584.9 Hz

412 repetitions

OBSERVED C13, 101.244302 MHz

DECOUPLE H1, 402.644349 MHz

Power 38 dB

continuously on

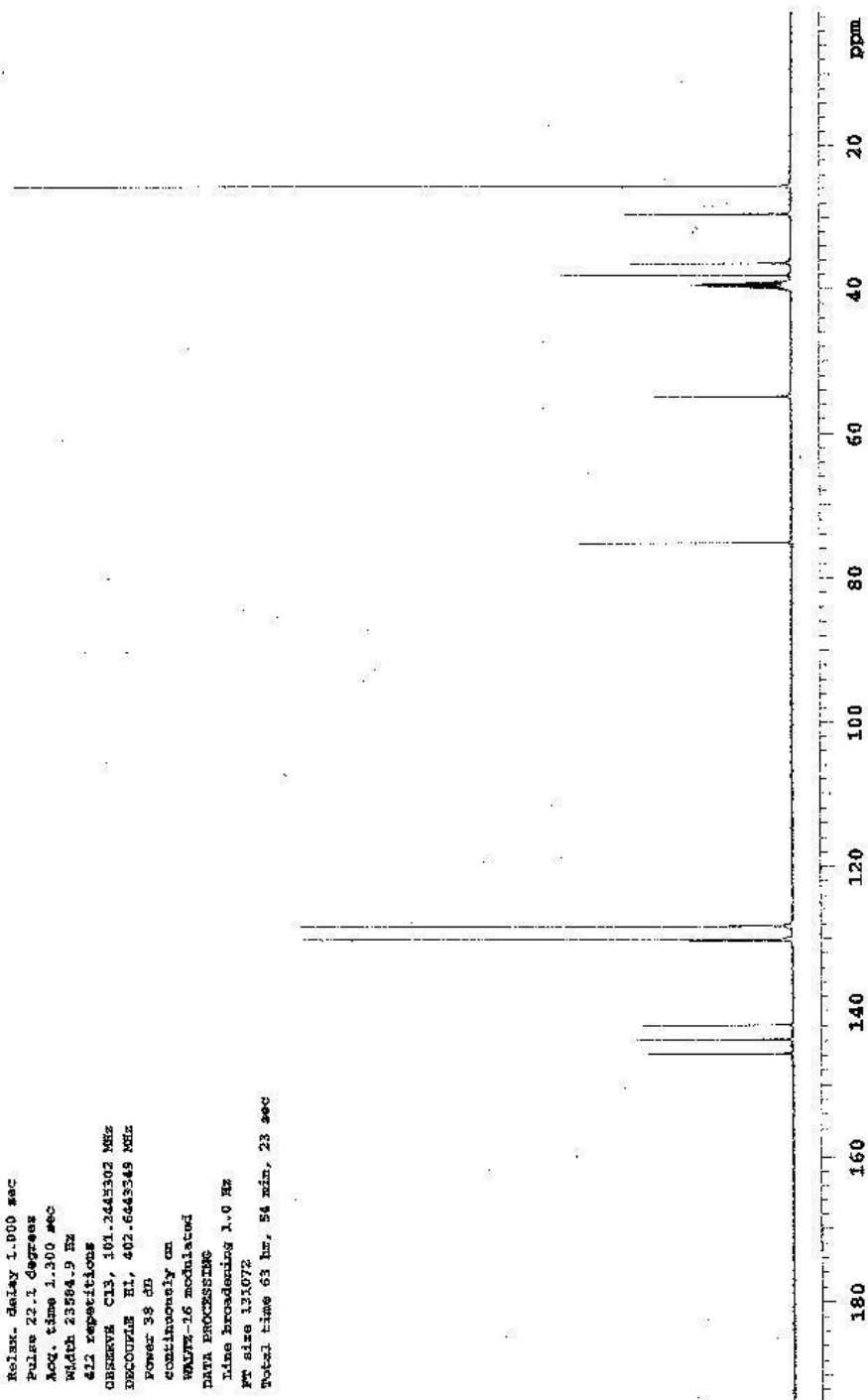
WALTZ-16 modulated

DATA PROCESSING

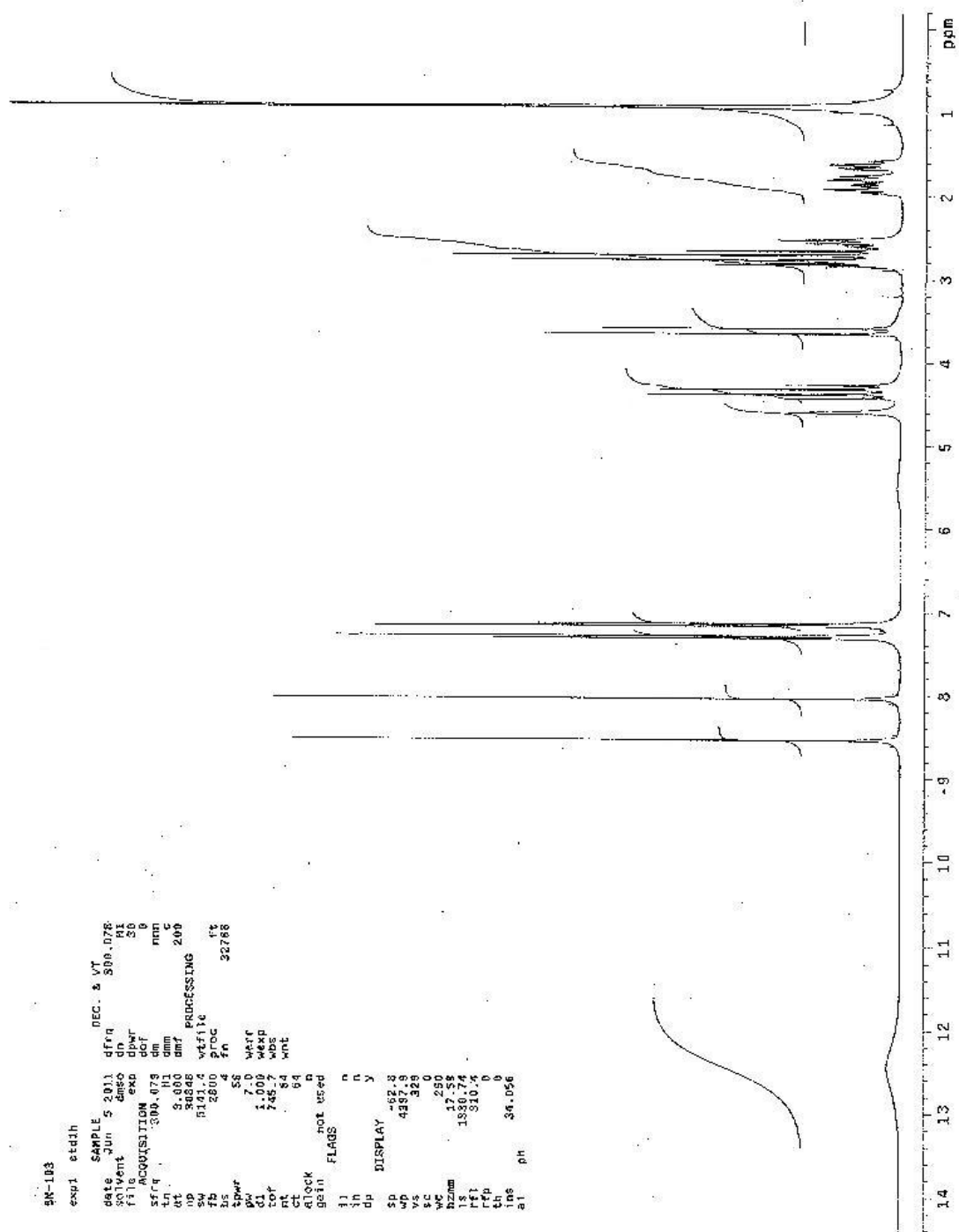
Line broadening 1.0 Hz

FT size 131072

Total time 63 hr, 54 min, 23 sec



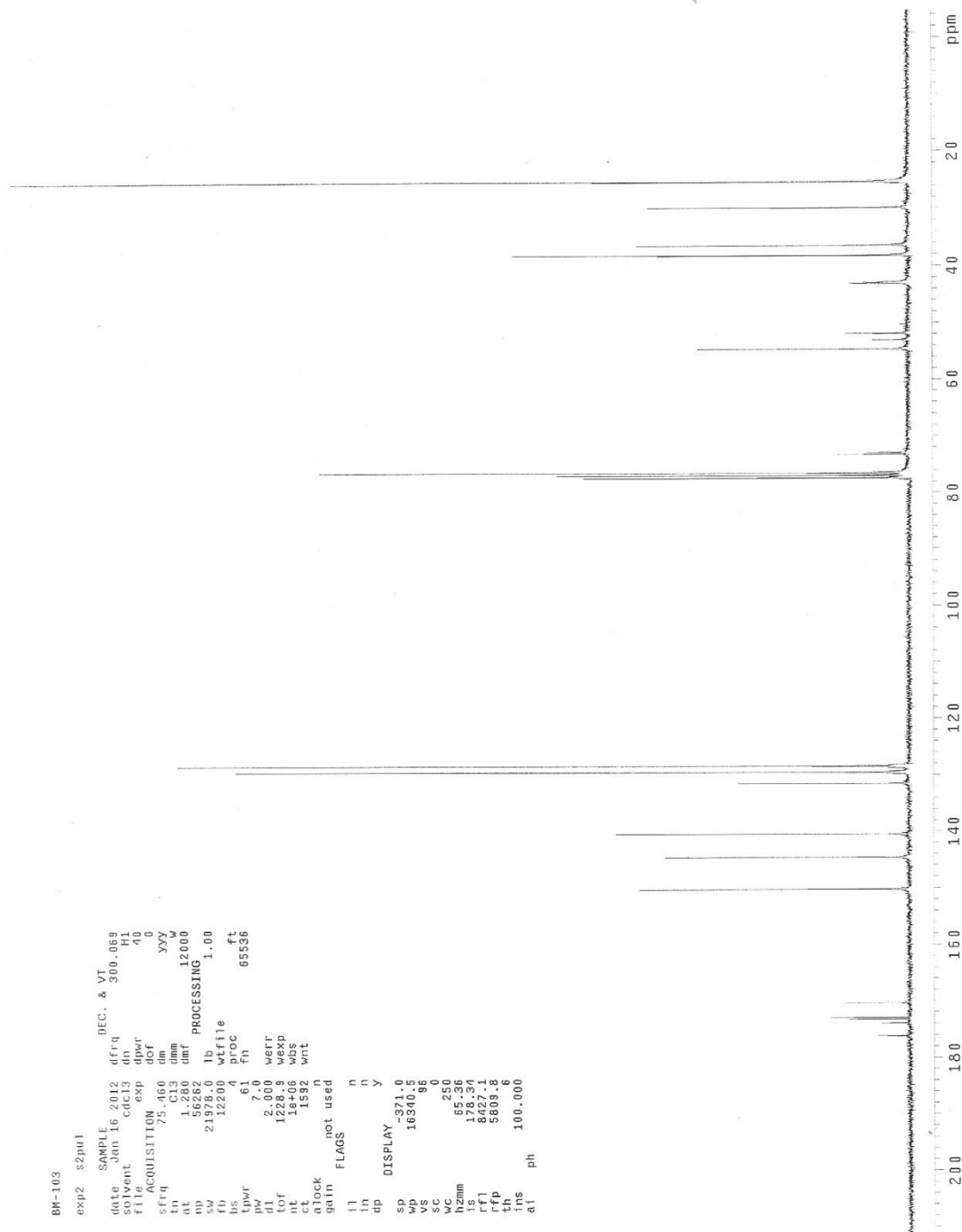
LINE	FROM/TO	DATE	AMOUNT
1	14748.0	145.667	26.0
2	14555.4	143.765	28.0
3	14356.4	141.799	27.0
4	14166.1	139.240	18.6
5	13163.5	130.077	87.6
6	12981.7	128.221	87.6
7	7608.0	75.183	37.8
8	5550.2	54.820	24.8
9	4061.3	39.516	7.5
10	4020.0	39.705	15.1
11	3599.2	39.500	18.0
12	3978.3	39.284	16.0
13	3957.1	39.084	8.1
14	3856.6	38.082	41.1
15	3684.3	36.390	29.0
16	2989.3	29.526	29.7
17	2592.0	25.602	133.4

¹H NMR

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	3689.276	12.851	1.1	40	1232.668	4.508	48.5	78	576.436	1.521	15.8
2	3723.215	12.408	2.7	41	1278.208	4.584	23.5	80	572.102	1.507	16.1
3	3757.965	12.457	2.7	42	1290.862	4.135	0.8	81	563.629	1.878	8.7
4	2864.388	8.881	0.4	43	1229.585	4.098	0.4	82	558.922	1.868	10.9
5	2573.324	8.598	2.5	44	1221.719	4.071	0.4	83	552.881	1.841	9.8
6	2558.553	8.530	122.0	45	1112.622	3.708	1.4	84	547.824	1.825	7.2
7	2538.782	8.464	1.5	46	1085.617	3.855	12.1	85	538.937	1.796	15.3
8	2513.107	8.375	0.5	47	1053.585	3.844	71.9	86	524.129	1.780	14.1
9	2452.538	8.173	0.7	48	1074.222	3.580	60.1	87	525.970	1.753	12.7
10	2446.263	8.152	0.5	49	1054.451	3.514	2.2	88	521.283	1.737	9.8
11	2438.253	8.099	2.3	50	1018.488	3.386	1.0	89	500.298	1.867	11.0
12	2416.860	8.034	125.7	51	988.845	3.352	0.5	90	495.843	1.852	15.1
13	2391.030	7.968	1.6	52	957.793	3.192	4.1	91	486.748	1.622	14.9
14	2385.351	7.949	0.5	53	877.454	2.924	0.6	92	482.368	1.607	14.0
15	2306.935	7.838	0.8	54	872.432	2.807	1.1	93	478.847	1.577	7.0
16	2213.081	7.375	2.4	55	868.698	2.898	1.1	94	466.854	1.562	5.7
17	2210.634	7.368	2.0	56	865.244	2.883	4.1	95	390.185	1.134	3.0
18	2204.618	7.347	3.9	57	857.869	2.857	4.1	96	311.842	1.040	4.1
19	2195.821	7.316	13.7	58	854.504	2.848	15.6	97	297.508	0.991	14.1
20	2193.320	7.309	81.8	59	850.151	2.838	14.9	98	278.049	0.927	587.3
21	2191.427	7.303	31.1	60	845.757	2.818	37.5	99	258.278	0.861	12.8
22	2187.044	7.288	39.1	61	838.187	2.797	28.8	100	214.370	0.716	3.9
23	2185.161	7.282	113.4	62	836.303	2.787	17.6	101	0.000	0.680	0.7
24	2182.650	7.274	21.0	63	833.832	2.779	19.9				
25	2173.863	7.244	3.8	64	830.380	2.767	78.4				
26	2168.214	7.228	4.0	65	821.279	2.737	10.0				
27	2165.076	7.215	4.1	66	812.482	2.703	94.1				
28	2158.741	7.197	4.5	67	797.114	2.656	43.4				
29	2148.752	7.181	105.8	68	782.965	2.602	8.7				
30	2140.284	7.132	72.8	69	777.971	2.588	11.7				
31	2128.986	7.095	3.3	70	768.498	2.564	17.3				
32	2128.512	7.087	2.0	71	765.104	2.550	13.6				
33	2110.784	7.034	1.1	72	760.711	2.535	10.9				
34	2102.311	7.006	0.6	73	758.828	2.528	16.9				
35	1649.776	5.436	0.7	74	756.945	2.529	25.1				
36	1377.062	4.539	27.8	75	753.179	2.510	13.3				
37	1345.092	4.482	1.5	76	695.749	2.319	0.6				
38	1325.595	4.418	25.6	77	589.878	1.985	0.3				
39	1311.473	4.370	50.3	78	584.869	1.948	8.4				

¹³C NMR

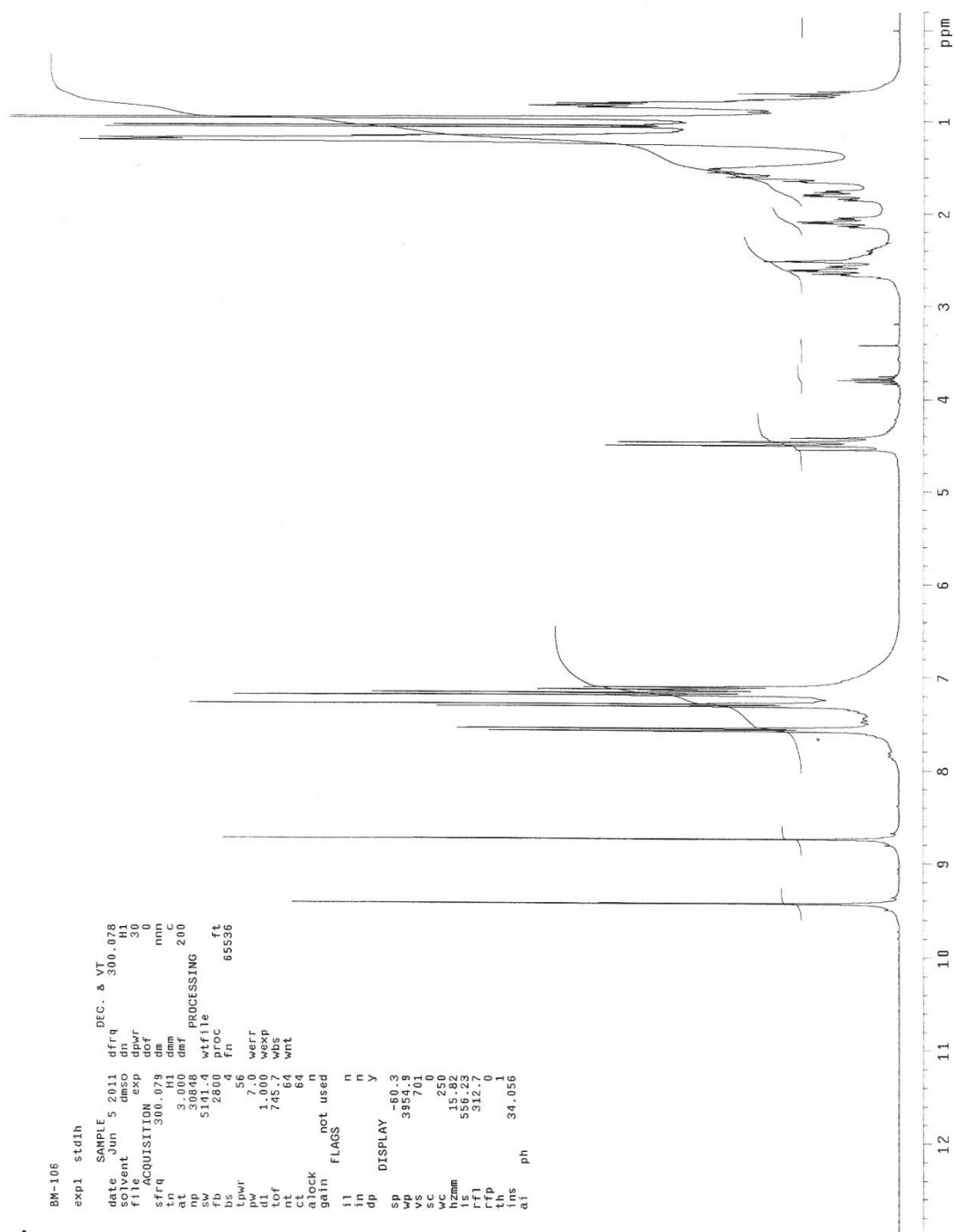
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l3 y
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vs 96
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INDEX	FREQUENCY	PPM	HEIGHT
1	13293.211	176.181	6.6
2	13072.539	172.256	11.7
3	13048.734	172.354	13.7
4	12859.245	170.429	11.7
5	11336.014	150.268	49.3
6	10912.097	144.623	49.2
7	10602.887	140.525	61.1
8	9920.077	131.475	37.8
9	9771.845	129.511	133.6
10	9609.344	128.417	156.1
11	5842.000	77.427	69.8
12	5809.804	77.000	73.2
13	5796.390	76.822	6.3
14	5776.938	76.564	111.8
15	5756.816	76.298	7.4
16	5524.741	73.222	14.3
17	5502.607	72.928	8.2
18	4124.314	54.669	42.3
19	4002.170	53.043	8.3
20	3914.974	51.667	12.9
21	3246.320	43.039	12.8
22	3236.959	42.900	9.8
23	2880.698	38.179	83.2
24	2750.575	36.455	55.7
25	2253.560	29.867	52.3
26	1910.143	25.316	199.1
27	1890.691	25.058	8.1

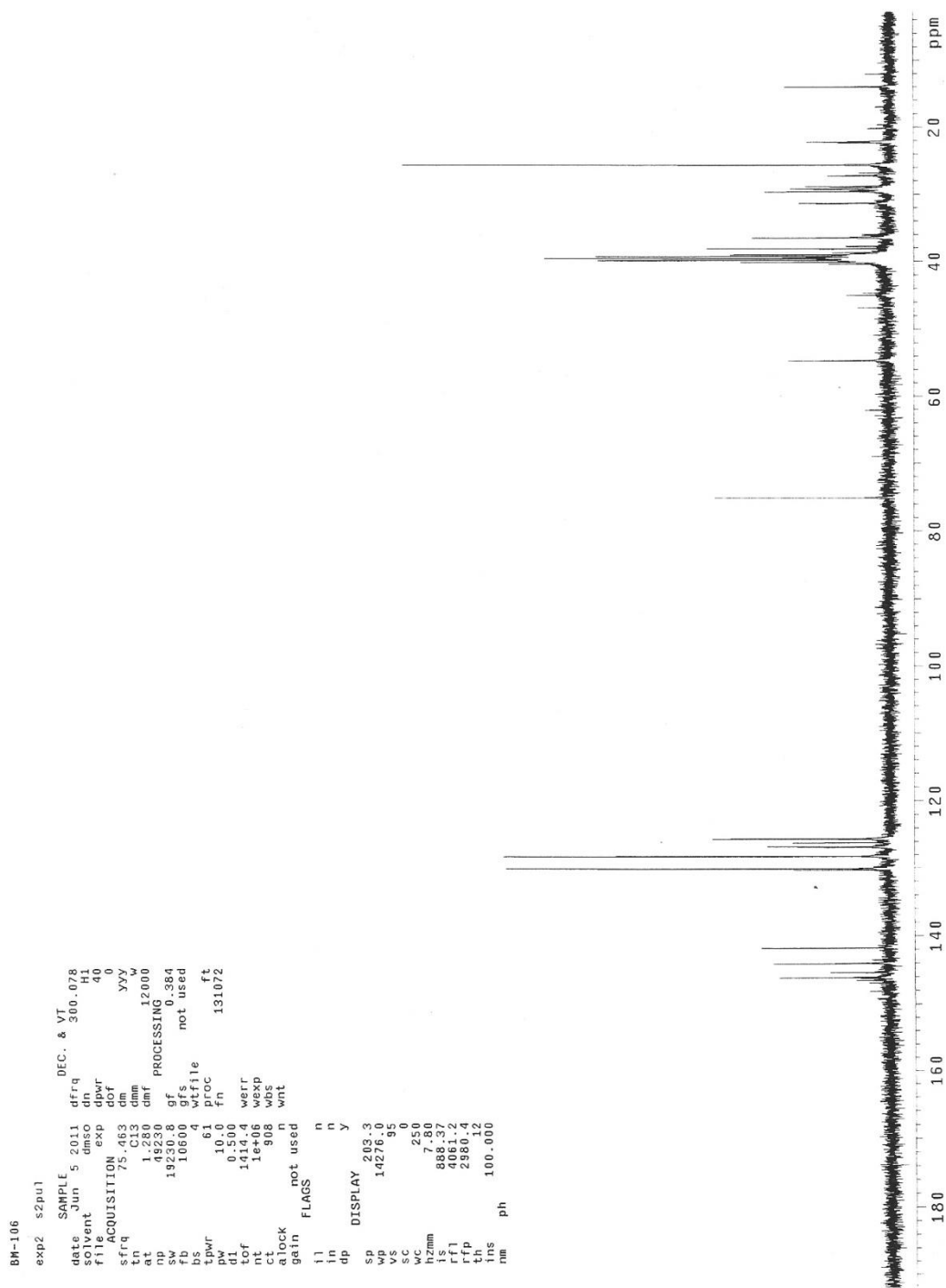
Tebuconazole dodecylbenzenesulfonate

^1H NMR

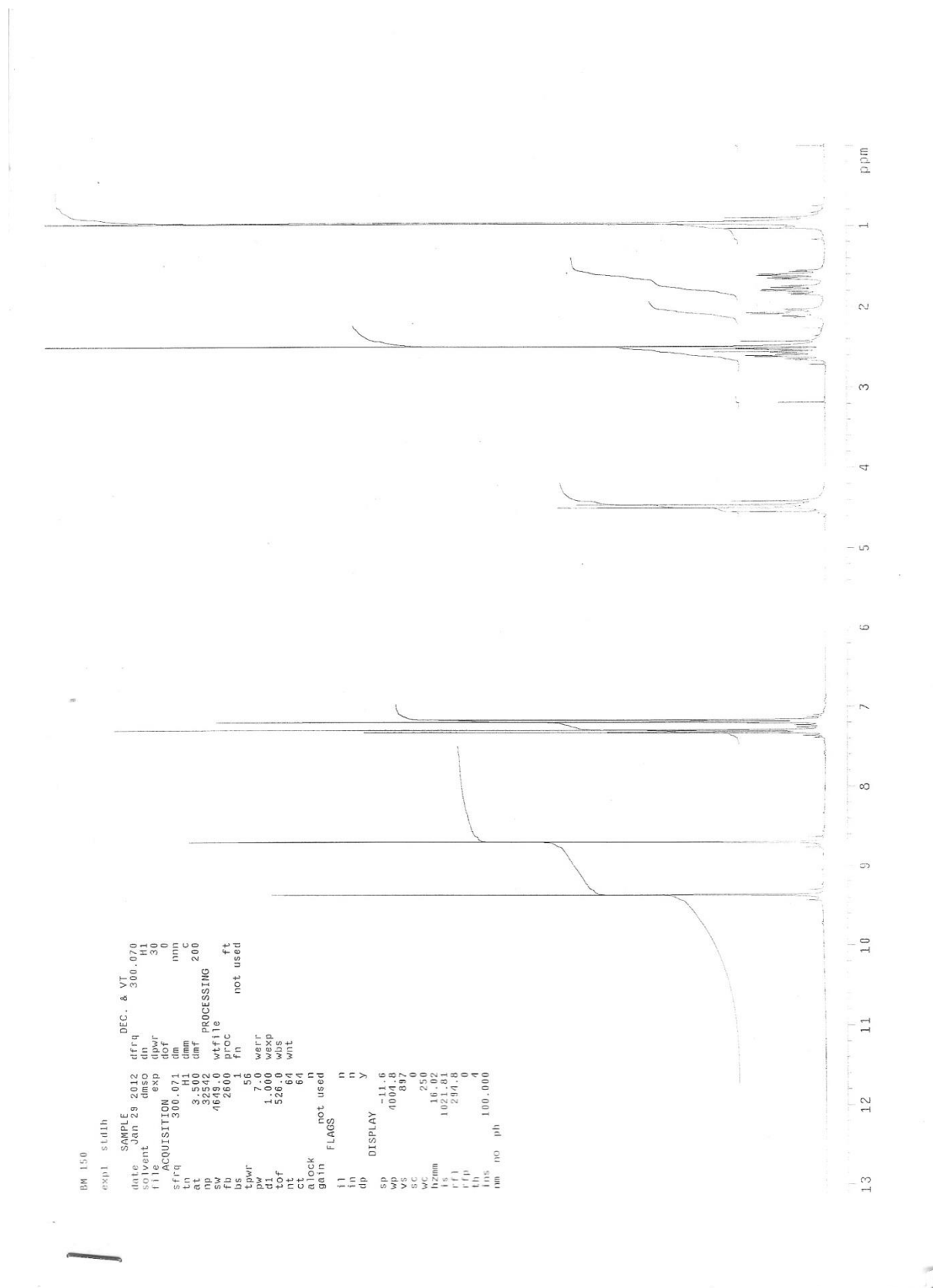


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1	2847.557	9.489	3.1	40	1338.421	4.460	56.8	79	575.537	1.918	4.0	118	227.987	0.760	31.4	118	227.987	0.760	31.4	118	227.987	0.760	31.4	118	227.987	0.760	31.4	118	227.987	0.760	31.4
2	2827.844	9.424	122.4	41	1324.142	4.413	22.3	80	554.668	1.848	11.6	119	215.551	0.718	22.4	119	215.551	0.718	22.4	119	215.551	0.718	22.4	119	215.551	0.718	22.4	119	215.551	0.718	22.4
3	2808.331	9.359	1.7	42	1304.058	4.346	2.7	81	549.804	1.832	12.7	120	208.216	0.694	13.0	120	208.216	0.694	13.0	120	208.216	0.694	13.0	120	208.216	0.694	13.0	120	208.216	0.694	13.0
4	2641.952	8.804	3.0	43	1297.782	4.325	2.3	82	540.860	1.802	19.9	121	540.860	1.802	19.9	121	540.860	1.802	19.9	121	540.860	1.802	19.9	121	540.860	1.802	19.9	121	540.860	1.802	19.9
5	2622.238	8.739	136.2	44	1291.192	4.303	1.8	83	536.153	1.787	19.8	122	177.933	0.593	3.4	122	177.933	0.593	3.4	122	177.933	0.593	3.4	122	177.933	0.593	3.4	122	177.933	0.593	3.4
6	2615.648	8.717	3.7	45	1284.759	4.281	1.2	84	527.837	1.759	17.5	123	527.837	1.759	17.5	123	527.837	1.759	17.5	123	527.837	1.759	17.5	123	527.837	1.759	17.5	123	527.837	1.759	17.5
7	2602.648	8.673	1.9	46	1148.249	3.827	3.5	85	522.818	1.742	15.2	124	522.818	1.742	15.2	124	522.818	1.742	15.2	124	522.818	1.742	15.2	124	522.818	1.742	15.2	124	522.818	1.742	15.2
8	2593.341	7.876	1.5	47	1142.287	3.806	9.2	86	495.828	1.652	20.2	125	495.828	1.652	20.2	125	495.828	1.652	20.2	125	495.828	1.652	20.2	125	495.828	1.652	20.2	125	495.828	1.652	20.2
9	2583.299	7.842	2.4	48	1136.067	3.786	12.8	87	481.905	1.639	23.8	126	481.905	1.639	23.8	126	481.905	1.639	23.8	126	481.905	1.639	23.8	126	481.905	1.639	23.8	126	481.905	1.639	23.8
10	2344.355	7.813	2.3	49	1130.348	3.766	4.3	88	482.020	1.606	31.9	127	482.020	1.606	31.9	127	482.020	1.606	31.9	127	482.020	1.606	31.9	127	482.020	1.606	31.9	127	482.020	1.606	31.9
11	2333.215	7.775	1.8	50	1123.328	3.745	8.5	89	473.411	1.594	35.2	128	473.411	1.594	35.2	128	473.411	1.594	35.2	128	473.411	1.594	35.2	128	473.411	1.594	35.2	128	473.411	1.594	35.2
12	2291.320	7.636	4.8	51	1024.292	3.413	4.6	91	468.683	1.562	33.7	129	468.683	1.562	33.7	129	468.683	1.562	33.7	129	468.683	1.562	33.7	129	468.683	1.562	33.7	129	468.683	1.562	33.7
13	2283.475	7.610	6.8	52	808.387	2.694	12.1	92	484.288	1.547	39.1	130	484.288	1.547	39.1	130	484.288	1.547	39.1	130	484.288	1.547	39.1	130	484.288	1.547	39.1	130	484.288	1.547	39.1
14	2272.021	7.571	89.4	53	794.737	2.663	18.0	93	485.189	1.517	39.4	131	485.189	1.517	39.4	131	485.189	1.517	39.4	131	485.189	1.517	39.4	131	485.189	1.517	39.4	131	485.189	1.517	39.4
15	2263.861	7.544	81.4	54	794.737	2.663	18.0	94	450.011	1.500	38.6	132	450.011	1.500	38.6	132	450.011	1.500	38.6	132	450.011	1.500	38.6	132	450.011	1.500	38.6	132	450.011	1.500	38.6
16	2252.564	7.507	7.2	55	786.262	2.620	22.5	95	359.789	1.199	165.6	133	359.789	1.199	165.6	133	359.789	1.199	165.6	133	359.789	1.199	165.6	133	359.789	1.199	165.6	133	359.789	1.199	165.6
17	2242.983	7.475	7.9	56	786.262	2.620	22.7	96	352.257	1.174	161.7	134	352.257	1.174	161.7	134	352.257	1.174	161.7	134	352.257	1.174	161.7	134	352.257	1.174	161.7	134	352.257	1.174	161.7
18	2234.363	7.446	7.4	57	773.240	2.577	15.2	97	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8
19	2229.856	7.430	7.5	58	769.317	2.564	14.4	97	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8	135	345.353	1.151	110.8
20	2221.340	7.403	6.9	59	755.608	2.521	21.9	98	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3
21	2212.553	7.373	8.6	60	755.608	2.521	21.9	98	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3	136	339.077	1.130	59.3
22	2204.237	7.346	10.7	61	753.156	2.510	23.3	100	326.054	1.087	44.0	137	326.054	1.087	44.0	137	326.054	1.087	44.0	137	326.054	1.087	44.0	137	326.054	1.087	44.0	137	326.054	1.087	44.0
23	2192.939	7.308	93.4	62	751.567	2.505	17.0	101	324.799	1.082	44.2	138	324.799	1.082	44.2	138	324.799	1.082	44.2	138	324.799	1.082	44.2	138	324.799	1.082	44.2	138	324.799	1.082	44.2
24	2191.213	7.302	42.2	63	743.565	2.478	10.5	102	317.424	1.058	157.5	139	317.424	1.058	157.5	139	317.424	1.058	157.5	139	317.424	1.058	157.5	139	317.424	1.058	157.5	139	317.424	1.058	157.5
25	2184.623	7.280	143.1	64	734.013	2.446	7.9	103	317.110	1.057	160.3	140	317.110	1.057	160.3	140	317.110	1.057	160.3	140	317.110	1.057	160.3	140	317.110	1.057	160.3	140	317.110	1.057	160.3
26	2182.426	7.273	35.4	65	728.365	2.427	6.6	104	311.304	1.037	156.6	141	311.304	1.037	156.6	141	311.304	1.037	156.6	141	311.304	1.037	156.6	141	311.304	1.037	156.6	141	311.304	1.037	156.6
27	2176.464	7.253	17.4	66	723.500	2.411	17.4	105	310.991	1.036	158.7	142	310.991	1.036	158.7	142	310.991	1.036	158.7	142	310.991	1.036	158.7	142	310.991	1.036	158.7	142	310.991	1.036	158.7
28	2167.677	7.224	17.0	67	718.793	2.395	15.2	106	307.853	1.026	51.6	143	307.853	1.026	51.6	143	307.853	1.026	51.6	143	307.853	1.026	51.6	143	307.853	1.026	51.6	143	307.853	1.026	51.6
29	2164.853	7.214	137.0	68	714.086	2.380	5.9	107	301.262	1.004	44.4	144	301.262	1.004	44.4	144	301.262	1.004	44.4	144	301.262	1.004	44.4	144	301.262	1.004	44.4	144	301.262	1.004	44.4
30	2156.694	7.187	134.0	69	710.006	2.366	5.2	108	287.768	0.959	650.6	145	287.768	0.959	650.6	145	287.768	0.959	650.6	145	287.768	0.959	650.6	145	287.768	0.959	650.6	145	287.768	0.959	650.6
31	2150.834	7.159	108.5	70	704.515	2.348	3.9	109	268.312	0.884	31.0	146	268.312	0.884	31.0	146	268.312	0.884	31.0	146	268.312	0.884	31.0	146	268.312	0.884	31.0	146	268.312	0.884	31.0
32	2148.378	7.136	50.1	71	693.374	2.311	3.0	110	253.249	0.844	65.0	147	253.249	0.844	65.0	147	253.249	0.844	65.0	147	253.249	0.844	65.0	147	253.249	0.844	65.0	147	253.249	0.844	65.0
33	2141.317	7.136	105.1	72	667.014	2.223	2.4	111	251.366	0.838	62.3	148	251.366	0.838	62.3	148	251.366	0.838	62.3	148	251.366	0.838	62.3	148	251.366	0.838	62.3	148	251.366	0.838	62.3
34	2138.022	7.125	72.9	73	642.212	2.140	10.4	112	243.483	0.831	63.2	149	243.483	0.831	63.2	149	243.483	0.831	63.2	149	243.483	0.831	63.2	149	243.483	0.831	63.2	149	243.483	0.831	63.2
35	2129.862	7.096	63.6	74	637.672	2.125	12.7	113	246.659	0.822	75.0	150	246.659	0.822	75.0	150	246.659	0.822	75.0	150	246.659	0.822	75.0	150	246.659	0.822	75.0	150	246.659	0.822	75.0
36	2110.720	7.034	11.9	75	629.356	2.097	20.0	114	238.342	0.784	69.4	151	238.342	0.784	69.4	151	238.342	0.784	69.4	151	238.342	0.784	69.4	151	238.342	0.784	69.4	151	238.342	0.784	69.4
37	2077.142	6.822	6.6	76	829.556	2.082	21.0	115	235.361	0.784	58.5	152	235.361	0.784	58.5	152	235.361	0.784	58.5	152	235.361	0.784	58.5	152	235.361	0.784	58.5	152	235.361	0.784	58.5
38	2067.884	6.891	5.5	77	816.176	2.053	13.6	116	231.125	0.770	35.7	153	231.125	0.770	35.7	153	231.125	0.770	35.7	153	231.125	0.770	35.7	153	231.125	0.770	35.7	153	231.125	0.770	35.7
39	1949.561	4.497	59.2	78	811.469	2.038	12.7	117	231.125	0.770	35.7	154	231.125	0.770	35.7	154	231.125	0.770	35.7												

¹³C NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	11077.119	146.806	4.5	40	2167.317	28.724	16.3
2	11050.709	146.456	6.2	41	2049.353	27.160	9.4
3	11030.168	146.183	5.9	42	2043.484	27.082	12.0
4	11020.484	146.055	21.6	43	2017.368	26.736	5.7
5	10962.383	145.285	11.2	44	1925.227	25.515	94.5
6	10864.666	143.990	22.3	45	1679.615	22.260	10.0
7	10693.296	141.719	25.0	46	1674.040	22.186	8.6
8	9828.520	130.258	18.6	47	1666.704	22.089	16.0
9	9612.087	130.040	74.5	48	1048.594	13.910	20.5
10	9672.702	128.193	74.6	49	905.807	12.005	4.5
11	9570.290	126.835	13.6				
12	9565.008	126.765	24.0				
13	9518.058	126.143	19.2				
14	9477.269	125.603	26.7				
15	9474.041	125.560	34.5				
16	5666.915	75.104	34.1				
17	4681.535	62.045	4.9				
18	4125.167	54.671	19.9				
19	3531.826	46.807	5.9				
20	3392.441	44.860	8.3				
21	3367.498	44.630	5.4				
22	3043.244	40.332	11.6				
23	3022.409	40.056	28.7				
24	3001.281	39.776	56.2				
25	2980.447	39.500	66.5				
26	2959.319	39.220	57.0				
27	2938.485	38.944	30.6				
28	2917.063	38.660	10.8				
29	2869.526	38.030	35.3				
30	2846.050	37.719	8.6				
31	2746.573	36.400	26.2				
32	2723.978	36.101	4.9				
33	2710.186	35.918	5.0				
34	2361.283	31.294	17.8				
35	2356.588	31.232	8.4				
36	2227.180	29.517	24.3				
37	2214.268	29.346	7.8				
38	2186.661	29.112	18.0				
39	2180.499	29.031	19.3				

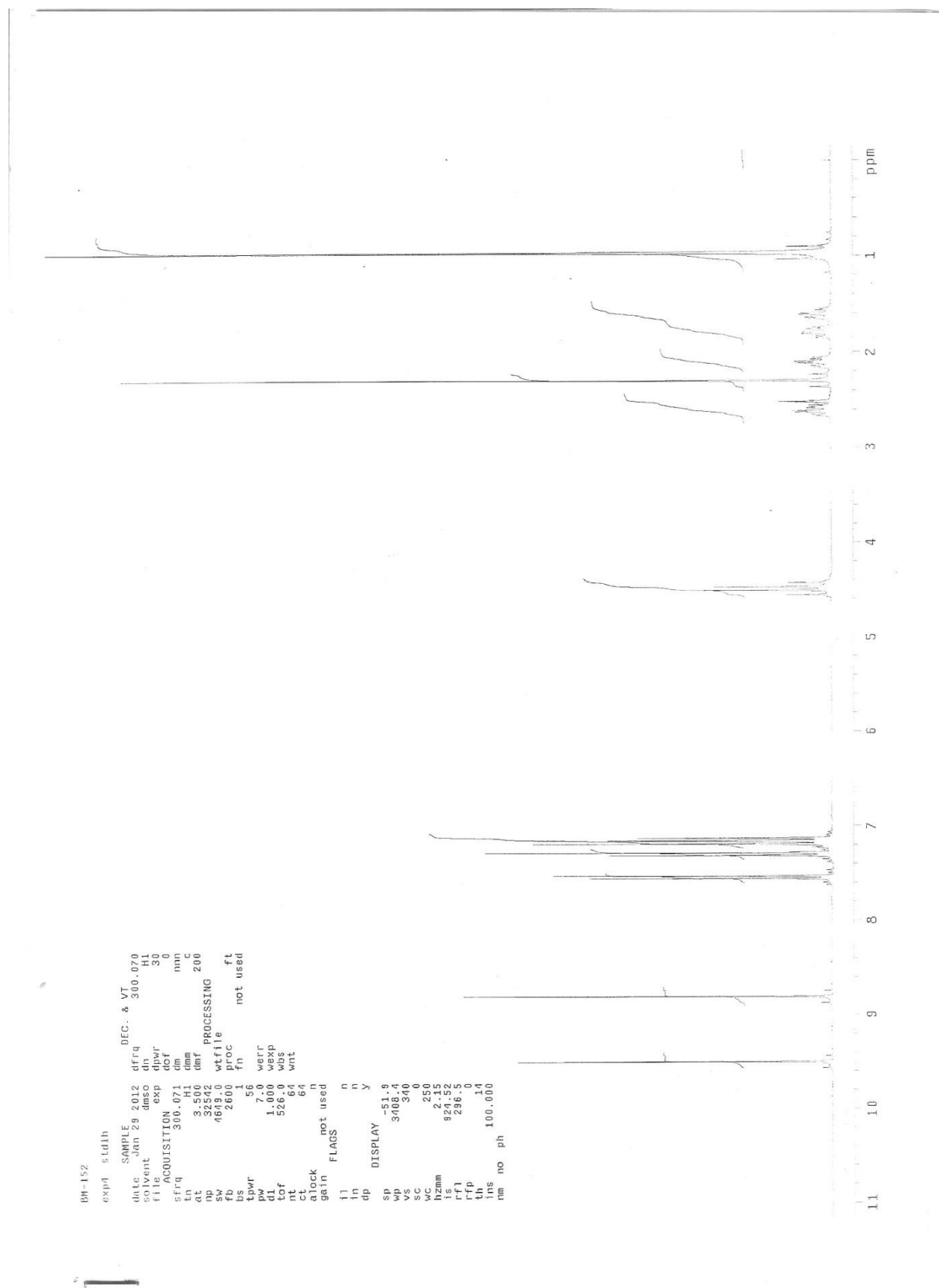
¹H NMR

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2829.752	9.430	4.6	40	736.099	2.453	4.9
2	2810.172	9.365	127.2	41	727.870	2.426	19.4
3	2629.127	8.762	4.8	42	680.196	2.267	4.9
4	2609.547	8.696	146.1	43	639.617	2.132	8.0
5	2208.580	7.360	5.3	44	639.793	2.115	9.9
6	2199.783	7.331	10.4	45	626.564	2.088	17.2
7	2197.229	7.322	105.9	46	621.740	2.072	18.1
8	2185.243	7.316	35.0	47	613.510	2.045	10.5
9	2180.703	7.301	38.9	48	608.402	2.028	9.7
10	2168.710	7.294	163.2	49	554.202	1.807	7.8
11	2166.466	7.286	22.4	50	549.378	1.831	8.5
12	2177.933	7.258	6.7	51	540.298	1.801	14.9
13	2189.420	7.230	7.2	52	535.474	1.785	14.6
14	2161.191	7.202	18.1	53	527.528	1.758	12.5
15	2158.637	7.194	139.7	54	522.420	1.741	10.0
16	2156.650	7.187	40.4	55	496.597	1.655	11.6
17	2152.110	7.172	31.0	56	492.341	1.641	13.2
18	2150.124	7.165	91.0	57	482.976	1.610	15.8
19	2147.570	7.157	12.1	58	478.720	1.595	15.3
20	2139.057	7.129	4.4	59	469.071	1.563	8.2
21	1363.514	4.504	22.4	60	464.815	1.549	6.7
22	1349.325	4.497	61.4	61	308.742	1.029	24.3
23	1337.691	4.458	57.1	62	289.161	0.964	735.1
24	1329.745	4.431	5.2	63	269.581	0.898	23.0
25	1323.502	4.411	21.8	64	0.000	0.000	6.6
26	955.737	3.185	10.6				
27	798.528	2.661	6.9				
28	784.272	2.647	9.3				
29	785.475	2.618	16.7				
30	781.218	2.603	18.4				
31	772.705	2.575	11.1				
32	767.314	2.557	25.5				
33	761.071	2.536	9.9				
34	759.084	2.530	20.0				
35	757.382	2.524	28.6				
36	755.395	2.517	10.6				
37	753.693	2.512	10.0				
38	747.450	2.481	897.2				
39	739.220	2.464	7.2				

INDEX	FREQUENCY	PPM	HEIGHT
1	11048.051	146.424	20.6
2	10873.141	144.106	25.6
3	10697.711	141.781	42.8
4	9827.311	130.245	30.5
5	9813.817	130.066	83.2
6	9875.258	128.230	60.5
7	5669.943	75.146	49.9
8	4119.104	54.592	22.3
9	3043.690	40.339	24.9
10	3022.410	40.057	78.0
11	3001.649	39.782	152.0
12	2997.497	39.727	75.8
13	2980.369	39.500	171.8
14	2959.608	39.225	144.9
15	2938.848	38.950	71.3
16	2917.568	38.668	23.1
17	2870.856	38.049	59.4
18	2743.695	36.363	27.2
19	2225.192	28.481	27.3
20	1926.754	25.536	102.3

Tebuconazole 4-methylbenzenesulfonate

¹H NMR



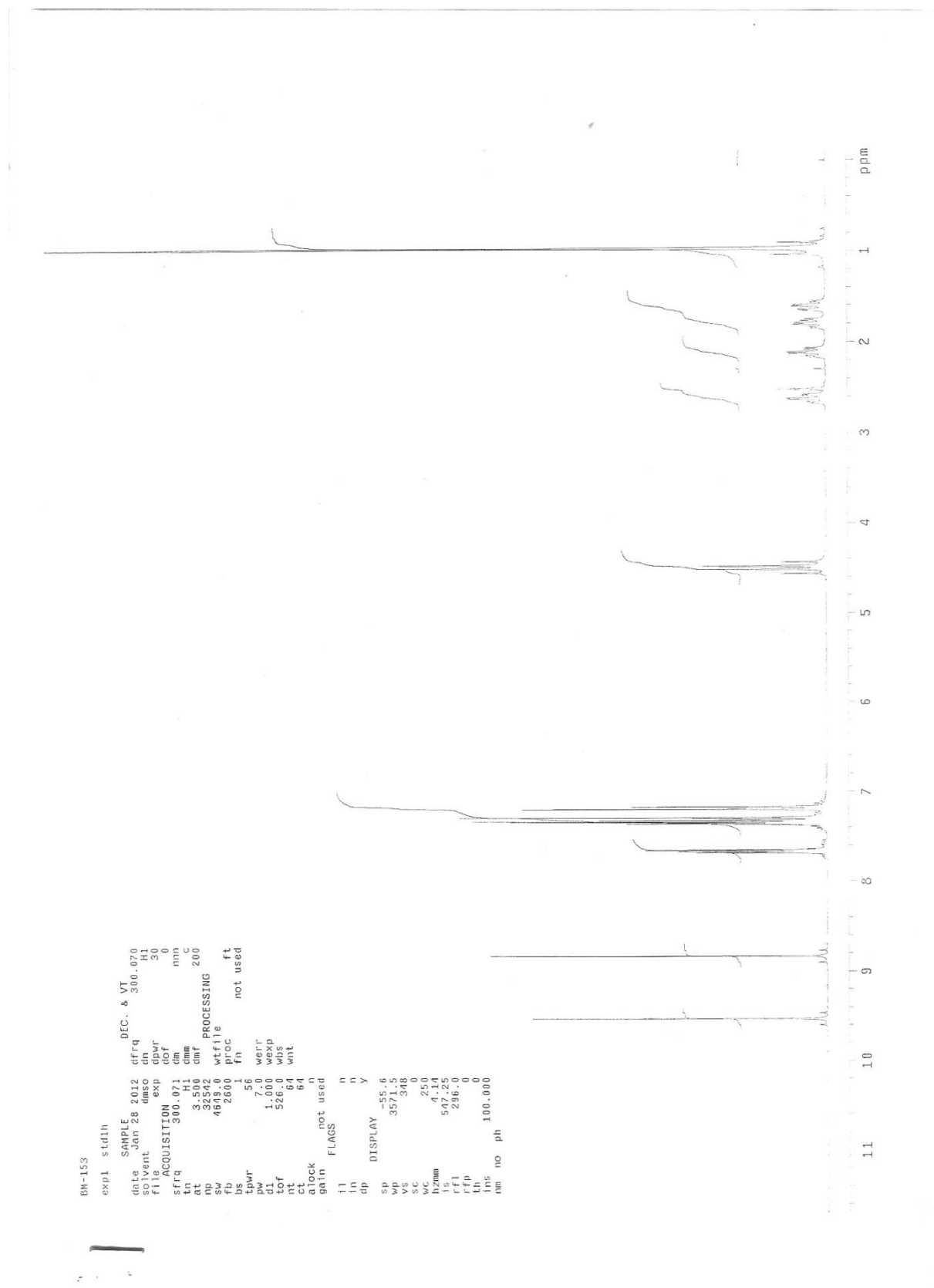
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2570.048	8.565	2.4	40	1323.219	4.410	1.7				
2	2850.164	8.498	72.3	41	801.082	2.670	3.5				
3	2830.604	9.433	1.6	42	797.109	2.656	4.6				
4	2662.896	8.874	2.6	43	786.312	2.627	8.2				
5	2843.316	8.809	84.1	44	784.056	2.613	8.9				
6	2623.735	8.744	2.1	45	775.259	2.584	5.7				
7	2298.320	7.626	1.7	46	771.286	2.570	5.2				
8	2280.090	7.599	2.3	47	766.462	2.554	5.2				
9	2270.442	7.566	8.0	48	759.368	2.531	3.7				
10	2268.456	7.560	55.3	49	757.382	2.524	8.3				
11	2266.753	7.554	17.5	50	755.679	2.518	12.1				
12	2262.213	7.539	19.0	51	753.693	2.512	8.6				
13	2260.510	7.533	63.8	52	751.990	2.506	5.0				
14	2258.524	7.527	8.5	53	708.573	2.361	5.2				
15	2240.930	7.468	1.6	54	688.993	2.296	161.7				
16	2206.594	7.354	2.7	55	669.413	2.231	5.1				
17	2197.787	7.324	5.4	56	647.846	2.159	4.1				
18	2195.243	7.316	50.8	57	642.739	2.142	4.8				
19	2193.257	7.309	16.1	58	634.793	2.115	8.1				
20	2189.000	7.295	19.7	59	629.685	2.096	8.5				
21	2186.730	7.287	79.3	60	625.429	2.084	2.4				
22	2184.460	7.280	10.0	61	621.456	2.071	4.8				
23	2178.217	7.259	2.8	62	616.632	2.055	4.4				
24	2175.947	7.251	2.4	63	555.621	1.852	3.7				
25	2169.420	7.230	3.4	64	550.513	1.835	4.0				
26	2167.434	7.223	4.8	65	541.717	1.805	7.0				
27	2160.907	7.201	11.2	66	536.609	1.788	6.7				
28	2158.353	7.193	68.1	67	528.663	1.762	5.7				
29	2156.367	7.186	19.1	68	523.555	1.745	4.4				
30	2151.826	7.171	16.8	69	496.313	1.654	5.4				
31	2150.124	7.165	50.7	70	492.057	1.640	6.0				
32	2148.421	7.160	47.5	71	482.682	1.609	7.4				
33	2147.854	7.158	51.2	72	476.720	1.595	7.1				
34	2139.908	7.131	44.4	73	469.071	1.563	3.7				
35	1367.770	4.558	10.4	74	464.815	1.549	3.0				
36	1353.288	4.510	29.0	75	309.593	1.032	13.1				
37	1342.515	4.474	26.9	76	290.013	0.966	340.0				
38	1334.002	4.446	2.1	77	270.433	0.901	10.3				
39	1328.326	4.427	10.0	78	-0.000	-0.000	1.9				

BM-152
exp2 s2pu1

SAMPLE
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f1 125.5
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sfrq 75.460 dn yxy
in C13 dnm
at 1.280 dnr 12000
np 43536 lb
sw 1700000 wf 1.00
bs 9400 wf 116
4 proc ft
tdwr 61 fn 65536
pw 7.0
d1 1.000 werr
tof 2832 wexp
ct 1500 wps
594 wot
alock n
gain not used
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ll n
in n
up y
DISPLAY
sp -125.5
wp 14133.0
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rfp 2880.4
th 3
rms 100.000
d1 ph



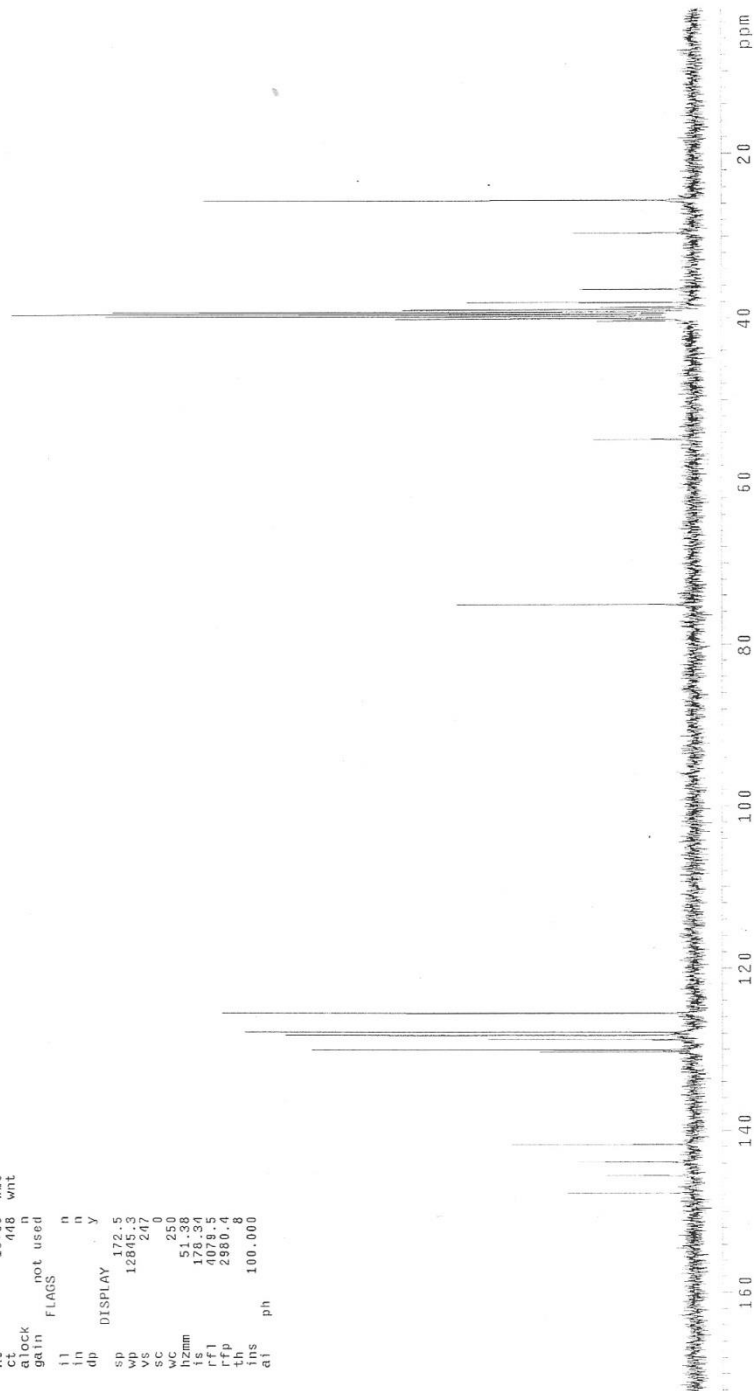
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1	10993.035	145.695	13.3
2	10924.386	144.918	21.8
3	10856.532	143.886	18.9
4	10693.090	141.719	28.8
5	10427.820	136.204	26.5
6	9829.387	130.273	21.9
7	9814.336	130.073	61.6
8	9678.352	128.271	69.7
9	9675.238	128.230	70.2
10	9473.338	125.554	73.2
11	5667.348	75.112	32.4
12	4134.156	54.792	15.4
13	3043.690	40.339	17.1
14	3022.410	40.057	48.8
15	3001.130	39.775	98.2
16	2880.368	39.500	114.9
17	2859.088	39.218	97.2
18	2838.328	38.943	48.5
19	2817.568	38.668	13.7
20	2871.375	38.055	40.5
21	2748.885	36.432	16.2
22	2229.344	29.546	19.2
23	1927.782	25.550	74.4
24	1571.743	20.831	28.7

¹H NMR

BM-153

exp2 s2pu1

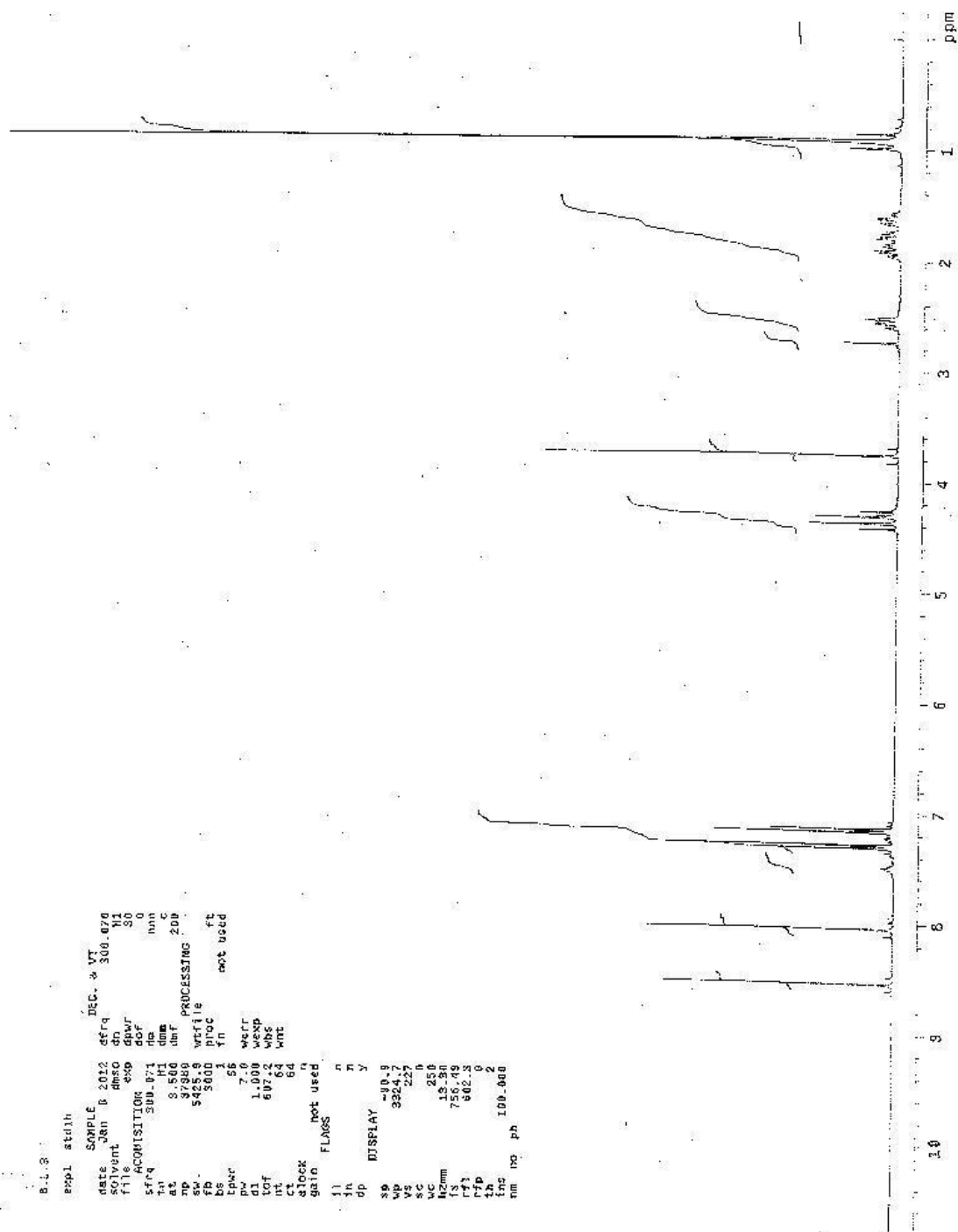
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 gain FLAGS
 il n
 in n
 dp Y
 DISPLAY
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 wp 12845.3
 vc 27.0
 sc 250
 wc 250
 hzmm 51.38
 is 178.34
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 rfp 2950.8
 tps 100.000
 ai ph



INDEX	FREQUENCY	PPM	HEIGHT
1	11144.071	147.697	22.6
2	10980.579	145.530	15.6
3	10853.418	143.845	20.9
4	10892.521	141.712	32.3
5	9850.325	130.286	27.4
6	9814.855	130.080	57.5
7	9718.316	128.801	36.5
8	9676.276	128.243	72.1
9	9644.615	127.824	79.4
10	9471.781	125.533	83.4
11	5666.829	75.105	41.8
12	4137.789	54.840	17.9
13	3043.690	40.339	17.2
14	3022.410	40.057	52.6
15	3001.130	39.775	103.9
16	2880.369	39.500	120.4
17	2859.089	39.218	102.6
18	2838.329	38.943	51.3
19	2817.568	38.669	16.6
20	2872.413	38.089	40.0
21	2750.442	36.453	20.2
22	2730.382	29.560	21.4
23	1928.311	25.557	86.5

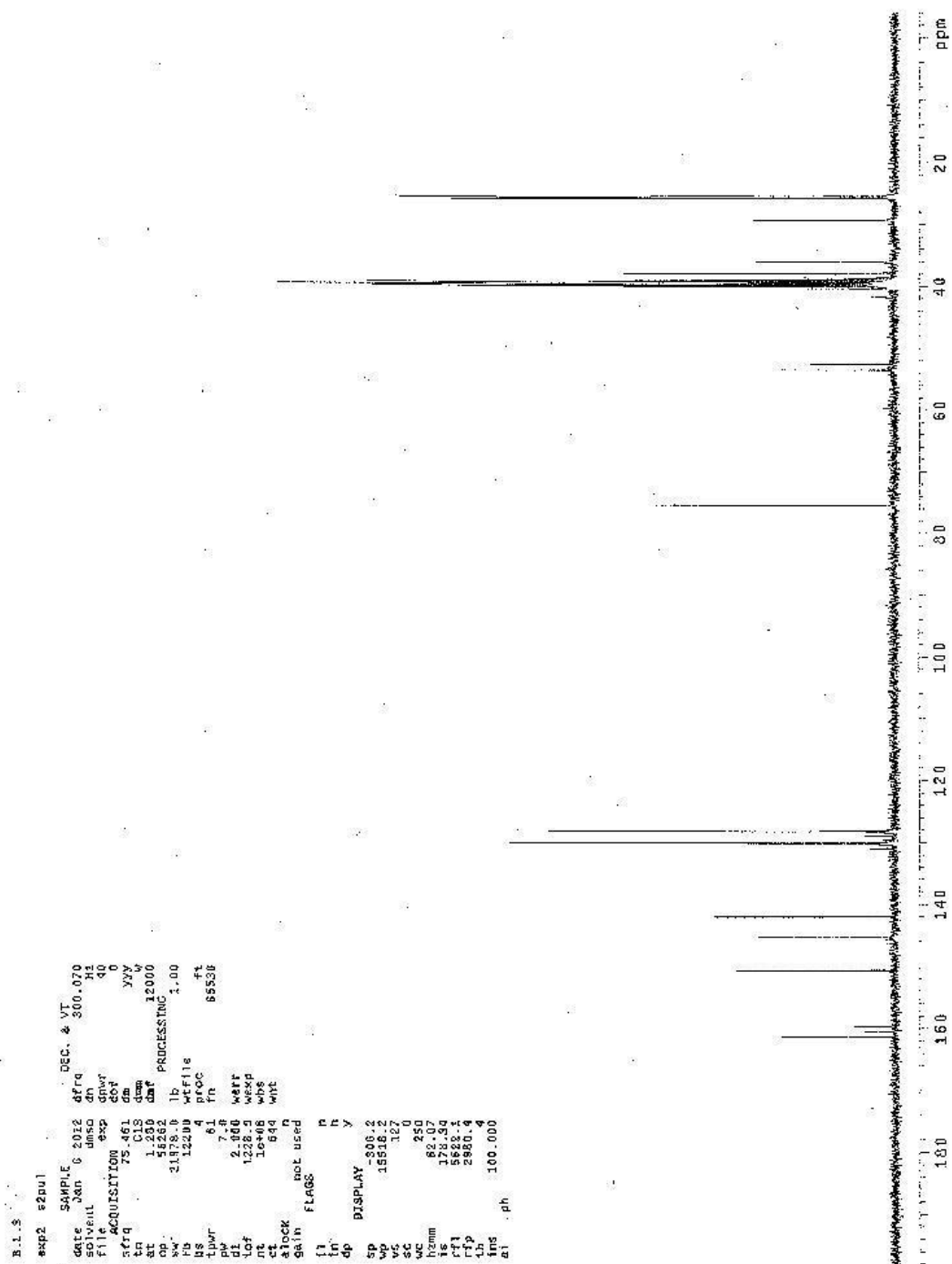
Tebuconazole oxalate

¹H NMR

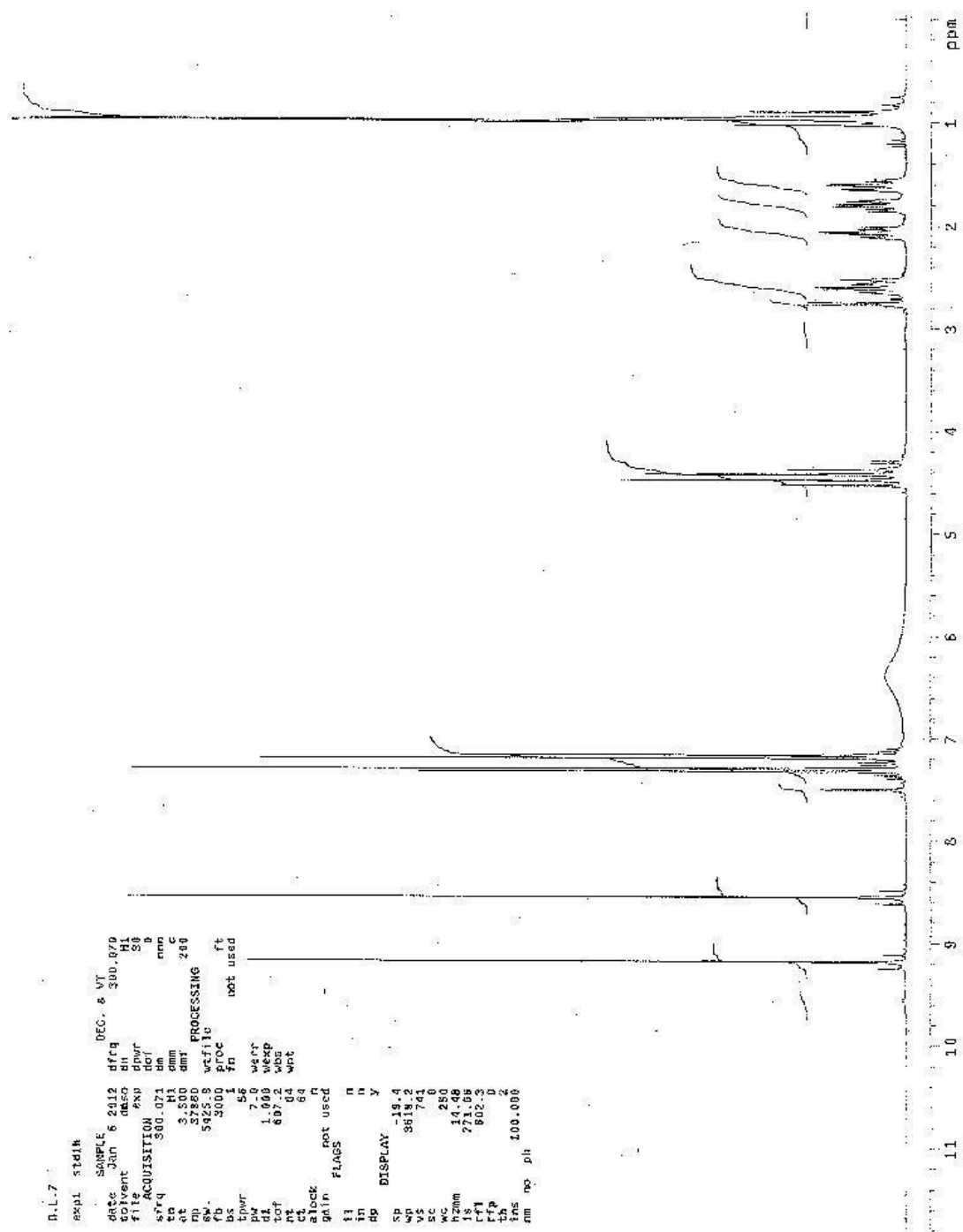


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2532.350	8.506	1.8	40	530.002	1.866	2.1
2	2562.353	8.500	4.9	41	565.200	1.950	2.9
3	2442.704	6.107	1.3	42	576.321	1.823	4.6
4	2442.832	6.041	4.3	43	572.284	1.807	5.3
5	2250.885	7.501	1.9	44	584.005	1.860	2.6
6	2247.804	7.431	2.7	45	558.202	1.864	3.7
7	2205.513	7.850	1.8	46	553.738	1.845	3.3
8	2196.737	7.821	2.9	47	543.856	1.829	2.1
9	2194.057	7.812	38.6	48	538.994	1.800	4.9
10	2192.266	7.806	5.2	49	535.357	1.784	4.2
11	2187.829	7.890	10.9	50	527.243	1.757	4.0
12	2185.842	7.884	42.5	51	522.441	1.741	3.1
13	2183.158	7.276	5.4	52	501.245	1.670	3.0
14	2184.745	7.231	1.3	53	486.840	1.666	3.2
15	2166.283	7.218	1.9	54	487.682	1.626	4.9
16	2152.358	7.173	4.9	55	463.527	1.611	4.7
17	2143.674	7.165	36.9	56	474.254	1.590	2.2
18	2140.053	7.159	10.4	57	468.783	1.566	1.6
19	2143.016	7.143	6.6	58	286.896	0.994	10.3
20	2141.029	7.136	84.6	59	278.690	0.929	228.8
21	2138.893	7.123	2.9	60	259.451	0.864	5.1
22	1826.719	4.021	7.9	61	-0.000	-0.000	2.0
23	1312.312	4.373	17.5				
24	1293.760	4.312	16.2				
25	1287.605	4.292	4.3				
26	1279.360	4.284	7.6				
27	1148.874	3.829	2.3				
28	1128.063	3.762	70.6				
29	1168.463	3.697	2.2				
30	822.390	2.743	11.1				
31	763.379	2.611	8.3				
32	773.106	2.596	2.9				
33	770.828	2.569	5.0				
34	766.523	2.554	5.4				
35	761.058	2.536	2.2				
36	759.071	2.530	5.0				
37	757.415	2.524	7.0				
38	755.594	2.518	4.9				
39	753.772	2.512	4.6				

¹³C NMR

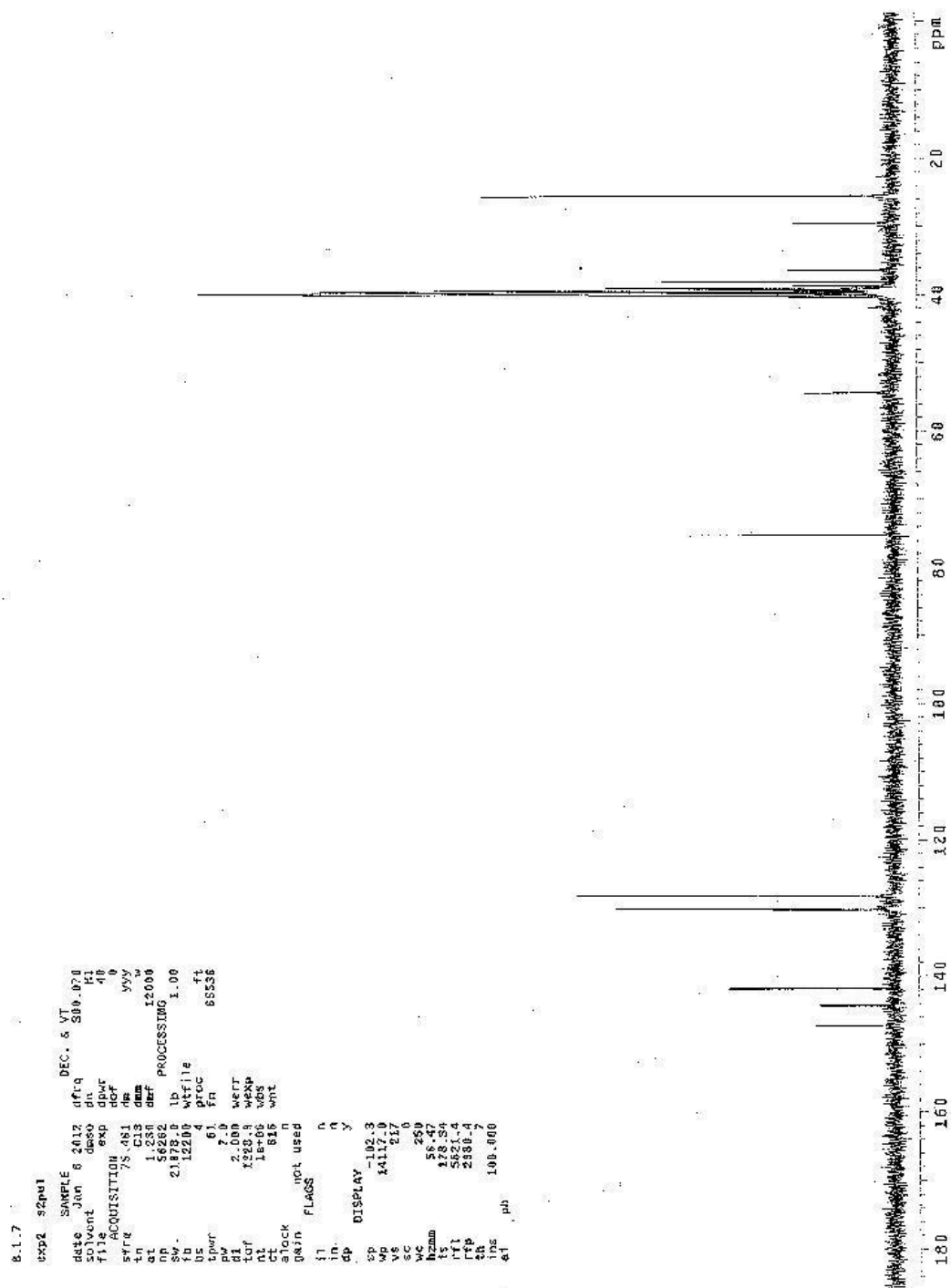


INDEX	FREQUENCY	PPM	HEIGHT
1	12176.537	161.384	22.1
2	12116.434	160.564	6.4
3	12005.373	159.662	7.4
4	11867.359	159.655	30.3
5	11806.159	145.839	26.1
6	10717.985	142.050	31.6
7	9882.248	130.973	4.7
8	8821.211	130.164	28.7
9	8611.680	130.040	74.7
10	9727.976	126.829	5.9
11	9671.636	126.132	67.1
12	9590.145	79.419	46.9
13	4037.430	88.518	22.0
14	3865.010	87.550	16.2
15	3143.724	41.731	4.6
16	3043.410	40.836	19.3
17	3042.650	40.060	57.7
18	3001.162	39.776	101.6
19	2989.383	39.500	131.9
20	2959.776	39.224	162.6
21	2938.784	38.948	59.2
22	2917.320	38.664	17.5
23	2895.873	37.388	92.4
24	2720.794	36.068	25.6
25	2209.022	29.277	27.9
26	1821.276	25.463	37.2

¹H NMR

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2773.557	9.243	5.8	40	829.282	2.764	23.2	79	268.755	0.836	30.1	80	249.215	0.831	5.0	81	225.204	0.751	3.2	82	-0.000	-0.000	2.2
2	2763.786	9.177	132.1	41	824.480	2.748	19.2	80	249.215	0.831	5.0	81	225.204	0.751	3.2	82	-0.000	-0.000	2.2	83	249.215	0.831	5.0
3	2754.412	9.113	4.5	42	815.287	2.717	5.2	81	225.204	0.751	3.2	82	-0.000	-0.000	2.2	83	249.215	0.831	5.0	84	258.545	8.617	6.3
4	2585.545	8.617	6.3	43	810.674	2.700	3.6	82	-0.000	-0.000	2.2	83	249.215	0.831	5.0	84	258.545	8.617	6.3	44	797.157	2.657	7.3
5	2585.545	8.617	6.3	44	797.157	2.657	7.3	83	249.215	0.831	5.0	84	258.545	8.617	6.3	45	793.048	2.643	9.4	45	793.048	2.643	9.4
6	2546.300	8.488	5.1	45	793.048	2.643	9.4	84	258.545	8.617	6.3	45	793.048	2.643	9.4	46	784.241	2.614	16.3	46	784.241	2.614	16.3
7	2251.582	7.503	16.2	46	784.241	2.614	16.3	47	780.101	2.600	13.4	47	780.101	2.600	13.4	48	771.823	2.570	10.9	48	771.823	2.570	10.9
8	2250.385	7.500	12.3	47	780.101	2.600	13.4	48	771.823	2.570	10.9	49	767.351	2.557	18.3	49	767.351	2.557	18.3	50	760.853	2.538	5.4
9	2245.752	7.484	2.4	48	771.823	2.570	10.9	50	760.853	2.538	5.4	51	755.071	2.530	10.0	51	755.071	2.530	10.0	52	757.250	2.524	13.5
10	2247.104	7.388	8.9	49	767.351	2.557	18.3	52	757.250	2.524	13.5	53	755.428	2.513	10.0	53	755.428	2.513	10.0	54	753.607	2.511	5.1
11	2208.635	7.301	8.6	50	760.853	2.538	5.4	53	755.428	2.513	10.0	54	753.607	2.511	5.1	55	835.871	2.119	7.6	55	835.871	2.119	7.6
12	2433.683	7.334	9.6	51	755.071	2.530	10.0	54	753.607	2.511	5.1	55	835.871	2.119	7.6	56	630.904	2.103	9.5	56	630.904	2.103	9.5
13	2187.343	7.323	37.5	52	757.250	2.524	13.5	55	835.871	2.119	7.6	56	630.904	2.103	9.5	57	622.789	2.075	16.5	57	622.789	2.075	16.5
14	2195.412	7.316	32.2	53	755.428	2.513	10.0	56	630.904	2.103	9.5	57	622.789	2.075	16.5	58	617.842	2.058	17.4	58	617.842	2.058	17.4
15	2189.541	7.301	38.6	54	753.607	2.511	5.1	57	622.789	2.075	16.5	58	617.842	2.058	17.4	59	609.703	2.052	8.2	59	609.703	2.052	8.2
16	2183.384	7.285	154.8	55	835.871	2.119	7.6	58	617.842	2.058	17.4	59	609.703	2.052	8.2	60	604.749	2.015	9.4	60	604.749	2.015	9.4
17	2188.478	7.287	20.2	56	630.904	2.103	9.5	59	609.703	2.052	8.2	60	604.749	2.015	9.4	61	557.215	1.957	7.8	61	557.215	1.957	7.8
18	2177.684	7.257	9.1	57	622.789	2.075	16.5	60	604.749	2.015	9.4	61	557.215	1.957	7.8	62	552.243	1.849	8.3	62	552.243	1.849	8.3
19	2163.414	7.230	9.5	58	617.842	2.058	17.4	61	557.215	1.957	7.8	62	552.243	1.849	8.3	63	543.896	1.811	14.9	63	543.896	1.811	14.9
20	2160.141	7.199	17.4	59	609.703	2.052	8.2	62	552.243	1.849	8.3	63	543.896	1.811	14.9	64	538.583	1.795	14.2	64	538.583	1.795	14.2
21	2157.829	7.191	123.0	60	604.749	2.015	9.4	63	543.896	1.811	14.9	64	538.583	1.795	14.2	65	530.380	1.768	12.0	65	530.380	1.768	12.0
22	2155.835	7.184	37.5	61	557.215	1.957	7.8	64	538.583	1.795	14.2	65	530.380	1.768	12.0	66	525.482	1.751	3.5	66	525.482	1.751	3.5
23	2151.193	7.168	30.1	62	552.243	1.849	8.3	65	530.380	1.768	12.0	66	525.482	1.751	3.5	67	486.800	1.656	11.4	67	486.800	1.656	11.4
24	2148.277	7.185	36.0	63	543.896	1.811	14.9	66	525.482	1.751	3.5	67	486.800	1.656	11.4	68	482.685	1.642	13.0	68	482.685	1.642	13.0
25	2146.804	7.178	14.2	64	538.583	1.795	14.2	67	486.800	1.656	11.4	68	482.685	1.642	13.0	69	483.185	1.618	16.0	69	483.185	1.618	16.0
26	2136.263	7.128	5.4	65	530.380	1.768	12.0	68	482.685	1.642	13.0	69	483.185	1.618	16.0	70	479.056	1.596	15.0	70	479.056	1.596	15.0
27	2129.536	7.093	9.3	66	525.482	1.751	3.5	69	483.185	1.618	16.0	70	479.056	1.596	15.0	71	469.617	1.565	8.3	71	469.617	1.565	8.3
28	1918.212	6.393	4.3	67	486.800	1.656	11.4	70	479.056	1.596	15.0	71	469.617	1.565	8.3	72	465.312	1.551	6.6	72	465.312	1.551	6.6
29	1382.156	4.551	2.3	68	482.685	1.642	13.0	71	469.617	1.565	8.3	72	465.312	1.551	6.6	73	367.613	1.425	2.9	73	367.613	1.425	2.9
30	1356.857	4.522	25.1	69	483.185	1.618	16.0	72	465.312	1.551	6.6	73	367.613	1.425	2.9	74	360.624	1.402	4.0	74	360.624	1.402	4.0
31	1342.459	4.474	57.3	70	479.056	1.596	15.0	73	367.613	1.425	2.9	74	360.624	1.402	4.0	75	350.392	1.368	3.0	75	350.392	1.368	3.0
32	1344.383	4.420	52.4	71	469.617	1.565	8.3	74	360.624	1.402	4.0	75	350.392	1.368	3.0	76	308.185	1.027	34.3	76	308.185	1.027	34.3
33	1312.147	4.373	23.9	72	465.312	1.551	6.6	75	350.392	1.368	3.0	76	308.185	1.027	34.3	77	286.295	0.861	741.1	77	286.295	0.861	741.1
34	1307.014	4.356	4.4	73	367.613	1.425	2.9	76	308.185	1.027	34.3	77	286.295	0.861	741.1	78	275.213	0.817	6.2	78	275.213	0.817	6.2
35	1292.441	4.307	7.5	74	360.624	1.402	4.0	77	286.295	0.861	741.1	78	275.213	0.817	6.2	79	268.755	0.836	30.1	79	268.755	0.836	30.1
36	1286.577	4.289	7.1	75	350.392	1.368	3.0	78	275.213	0.817	6.2	79	268.755	0.836	30.1	80	249.215	0.831	5.0	80	249.215	0.831	5.0
37	837.683	2.782	4.9	76	308.185	1.027	34.3	79	268.755	0.836	30.1	80	249.215	0.831	5.0	81	225.204	0.751	3.2	81	225.204	0.751	3.2
38	394.415	2.761	4.7	77	286.295	0.861	741.1	80	249.215	0.831	5.0	81	225.204	0.751	3.2	82	-0.000	-0.000	2.2	82	-0.000	-0.000	2.2
39	332.925	2.776	5.1	78	275.213	0.817	6.2	81	225.204	0.751	3.2	82	-0.000	-0.000	2.2	83	249.215	0.831	5.0	83	249.215	0.831	5.0

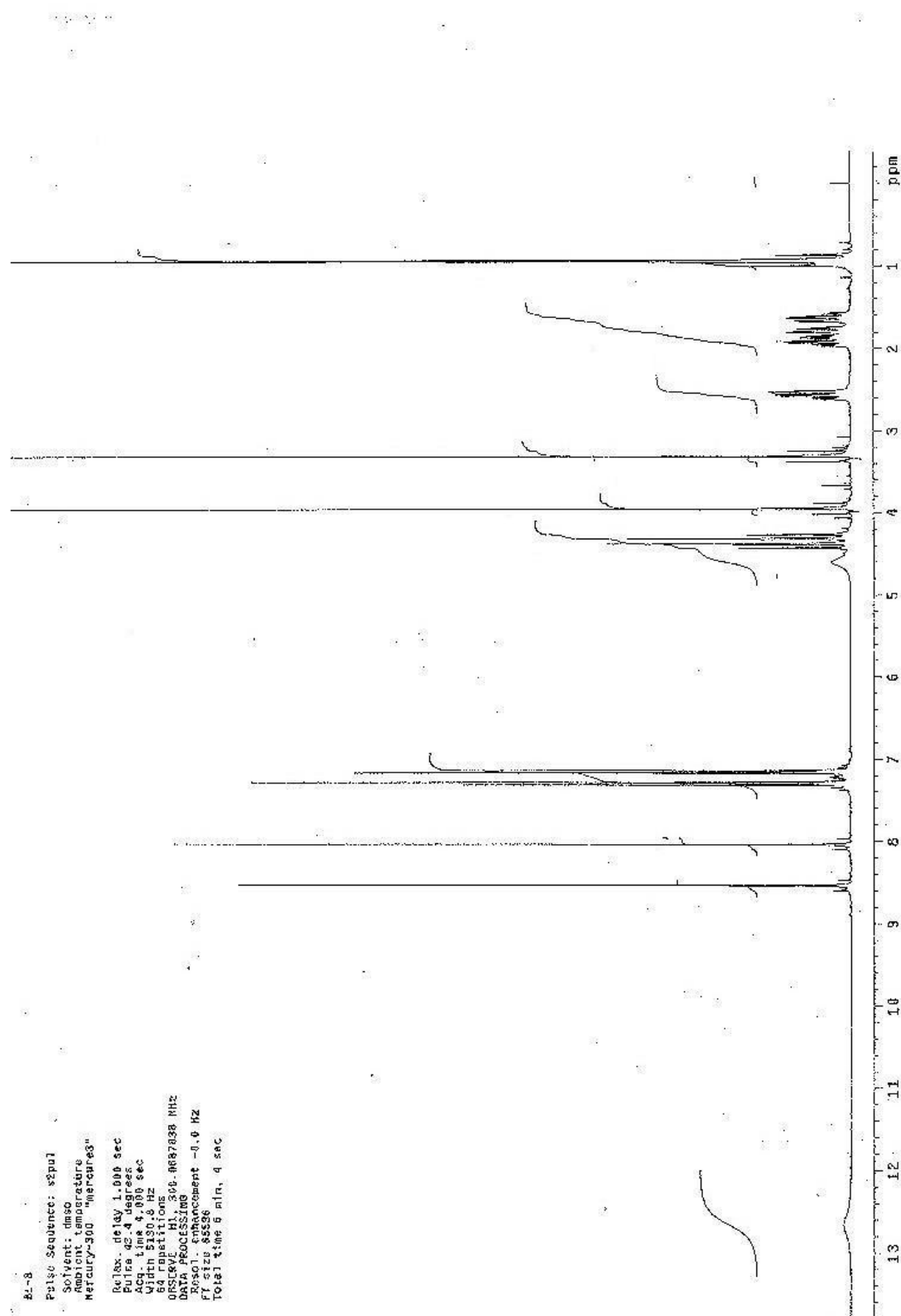
¹³C NMR



INDEX	FREQUENCY	PPM	HEIGHT
1	11110.386	147.250	15.4
2	10689.694	144.325	14.2
3	10639.625	141.810	32.5
4	9828.588	130.262	28.5
5	9813.532	130.067	58.8
6	8675.661	126.235	61.4
7	5875.388	75.218	39.3
8	4101.170	54.354	17.8
9	3043.419	40.386	13.9
10	3021.955	40.051	58.7
11	2941.162	39.778	114.2
12	2480.369	39.500	134.6
13	2852.905	39.218	111.0
14	2938.119	38.940	55.2
15	2816.648	38.655	19.1
16	2858.658	38.033	44.8
17	2782.258	36.848	20.1
18	2228.779	29.473	59.2
19	1828.501	25.517	73.6

Tebuconazole methoxyacetate

^1H NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2759.077	12.561	1.8	40	1278.354	4.382	28.2	79	327.633	1.759	14.4
2	2850.215	8.589	4.8	41	1273.510	4.244	3.5	80	322.330	1.742	14.6
3	2857.887	8.591	2.2	42	1258.442	4.187	9.5	81	301.543	1.871	13.9
4	2866.388	8.593	5.2	43	1248.235	4.060	4.5	82	497.315	1.857	15.3
5	2880.855	8.595	168.0	44	1205.238	4.017	10.4	83	488.077	1.827	17.3
6	2885.008	8.595	1.3	45	1184.454	3.981	-2.2	84	483.593	1.812	16.4
7	2894.068	8.488	3.6	46	1165.822	3.952	4.0	85	478.611	1.532	7.3
8	2490.833	3.181	5.0	47	1177.366	3.824	10.1	86	349.729	1.436	6.2
9	2411.416	8.036	182.4	48	1169.835	3.886	7.9	87	247.382	0.393	25.6
10	2381.590	7.879	4.0	49	1083.372	3.564	3.8	88	268.450	0.301	11.8
11	2212.868	7.575	3.2	50	1082.638	3.375	17.4	89	278.722	0.329	79.3
12	3204.416	7.546	5.4	51	1001.580	3.338	-3.1	90	258.836	0.883	20.2
13	2185.855	7.248	11.2	52	985.578	3.318	13.7	91	215.613	0.728	2.7
14	2193.449	7.310	164.4	53	982.376	3.311	714.2	92	-0.000	0.000	5.4
15	2181.579	7.304	87.4	54	980.685	3.282	6.0	93			
16	2187.028	7.288	40.1	55	973.535	3.244	17.1	94			
17	2184.994	7.282	161.6	56	959.243	3.187	5.0				
18	2182.433	7.273	23.0	57	953.782	3.178	8.7				
19	2175.589	7.244	8.2	58	921.813	3.072	8.3				
20	2171.327	7.237	2.3	59	783.567	2.612	10.5				
21	2168.305	7.233	4.3	60	771.627	2.576	16.3				
22	2167.143	7.222	3.8	61	785.798	2.555	20.2				
23	2185.107	7.215	5.6	62	754.657	2.523	21.2				
24	2182.445	7.206	3.2	63	756.934	2.523	22.1				
25	2180.410	7.200	4.3	64	754.899	2.518	28.0				
26	2182.111	7.172	17.3	65	580.797	1.989	7.8				
27	2179.805	7.164	133.8	66	585.943	1.953	16.2				
28	2167.726	7.157	42.8	67	572.848	1.925	17.4				
29	2143.029	7.142	31.6	68	572.948	1.925	20.1				
30	2141.150	7.136	84.4	69	554.647	1.882	8.3				
31	2138.844	7.127	12.9	70	554.158	1.866	13.5				
32	2129.718	7.087	3.5	71	543.468	1.831	21.8				
33	2121.263	7.059	2.6	72	540.558	1.801	27.7				
34	1590.614	4.081	5.3	73	535.879	1.785	15.4				
35	1346.093	4.466	1.3	74							
36	1331.290	4.437	2.3	75							
37	1328.592	4.421	30.4	76							
38	1312.543	4.373	65.7	77							
39	1283.239	4.310	60.2	78							

Pulse Sequence: s2pul

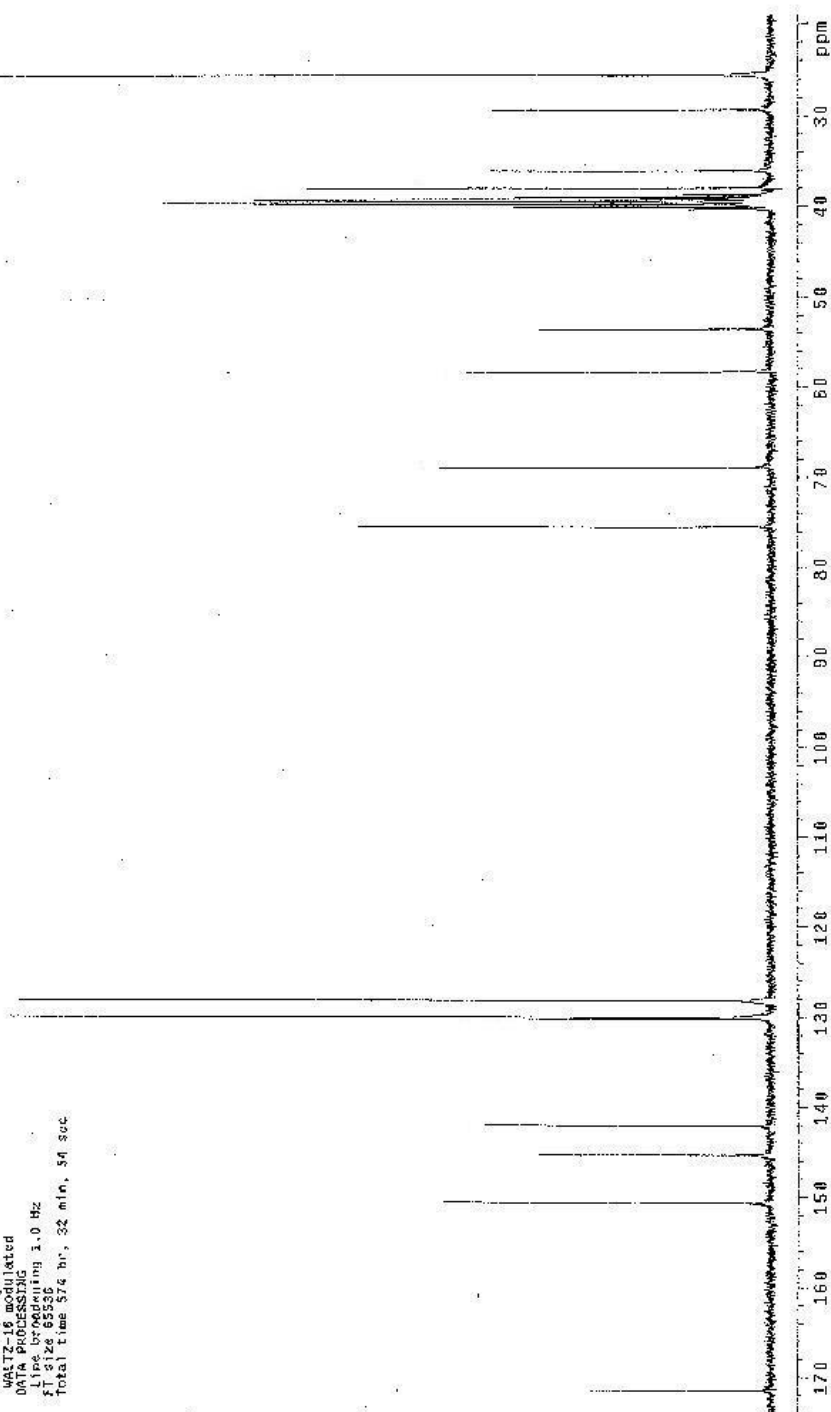
Solvent: dmsd
Ambient temperature
Nocury-300 "merckres"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 0.640 sec
W:Jib 1730.5 Hz

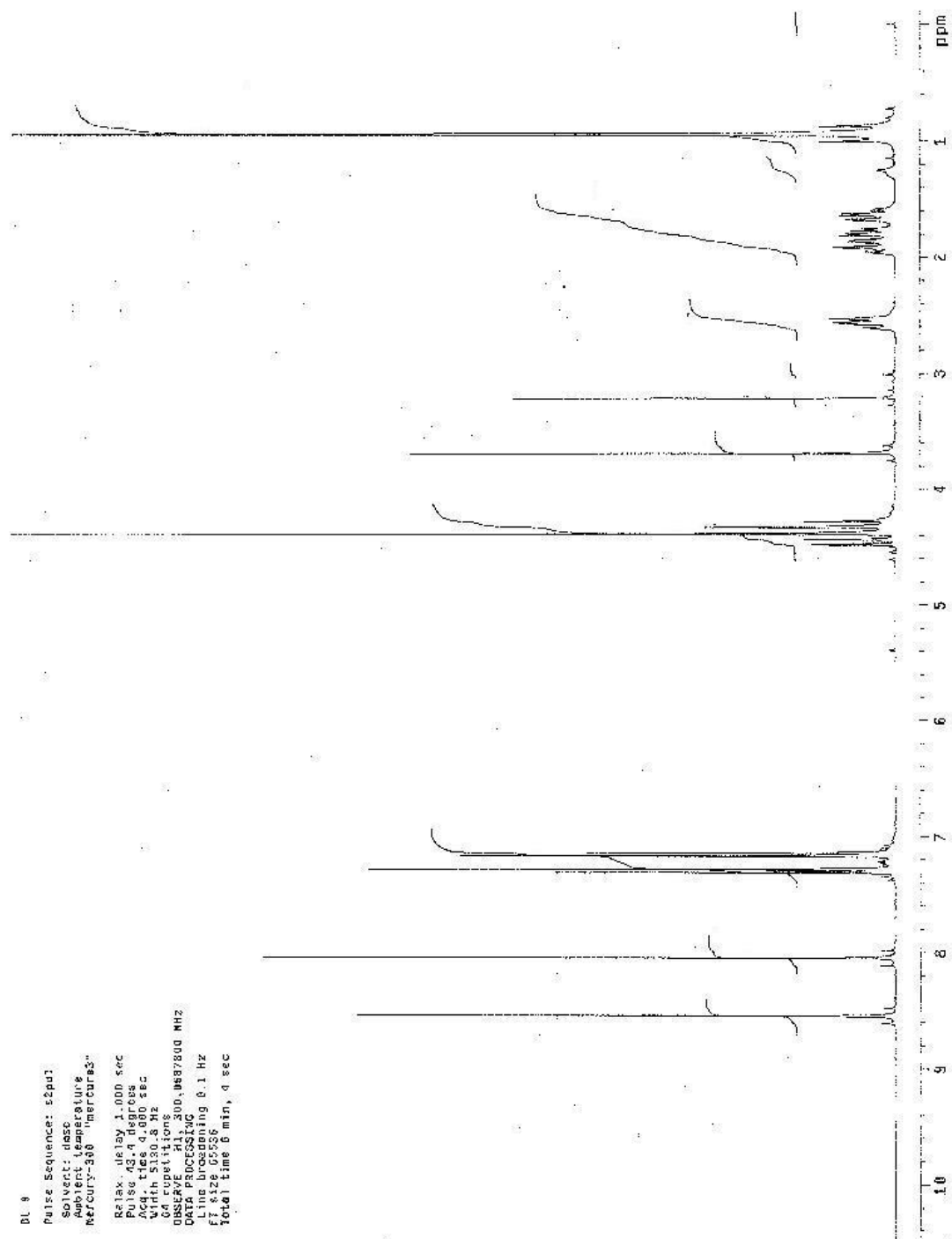
1748 repetitions
OBSERVE C13, 75.4523900 MHz
DECOUPLE H1, 300.0702630 MHz

Power 40 dB
continuously on
WATZ-16 modulated
DATA ONE

DATA PROCESSING
Line buffering 1.0 Hz
FT size 65536
Total time 574 hr. 32 m

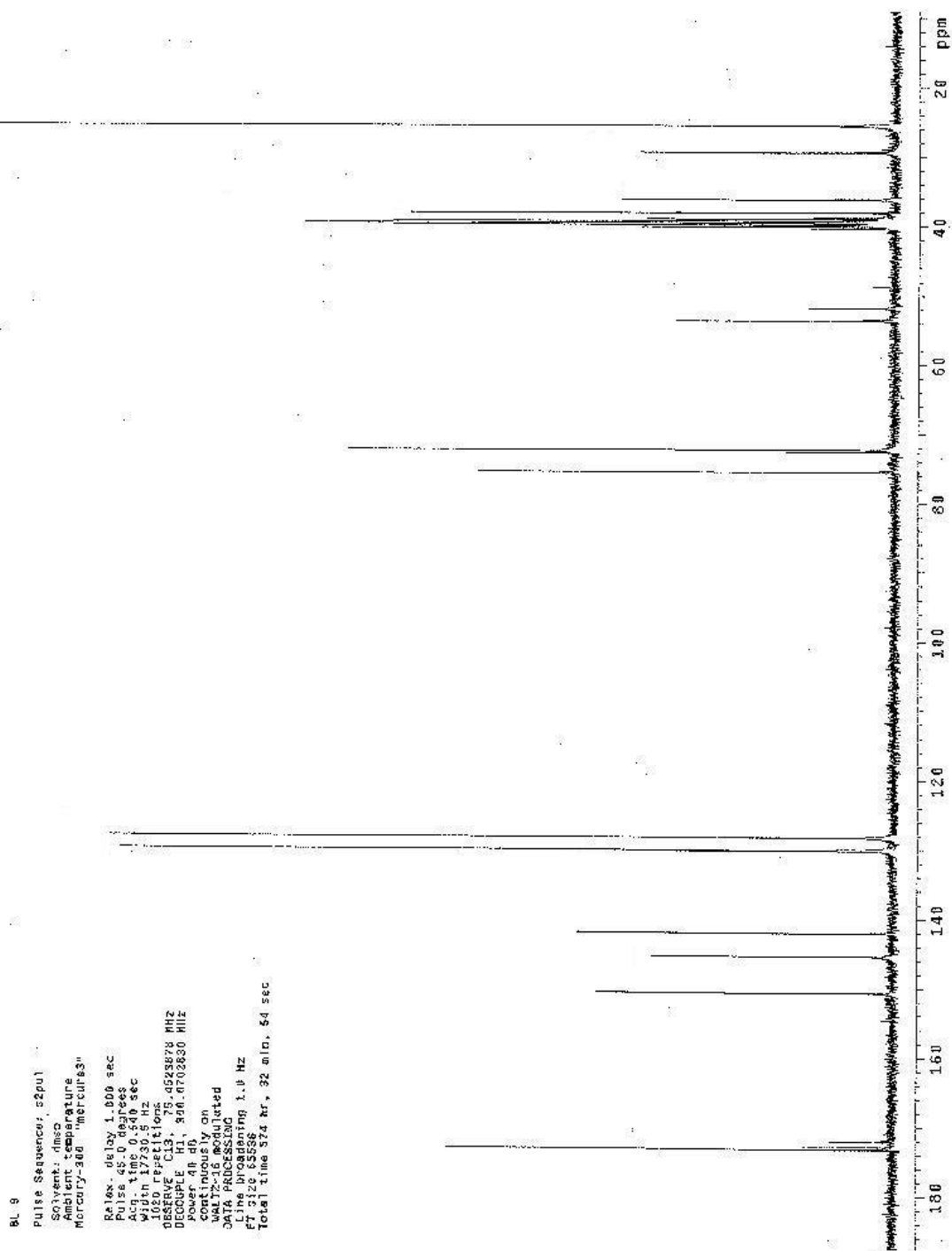


INDEX	FREQUENCY	PPM	HEIGHT
1	12943.256	171.842	91.7
2	11397.548	150.853	57.8
3	10364.984	145.323	40.5
4	10717.186	142.058	50.6
5	9824.520	130.155	42.7
6	9814.299	130.018	188.5
7	9670.082	128.182	182.6
8	5089.158	75.402	72.7
9	5136.752	66.978	56.4
10	4336.450	56.288	53.6
11	4036.072	53.492	40.7
12	3822.576	40.053	45.5
13	3001.473	31.700	91.1
14	2960.381	31.500	107.3
15	2959.286	31.220	91.2
16	2938.163	30.941	45.1
17	2864.031	27.858	81.8
18	2715.551	26.043	48.3
19	3208.208	29.288	49.2
20	1014.747	26.444	167.7

¹H NMR

[illegible]

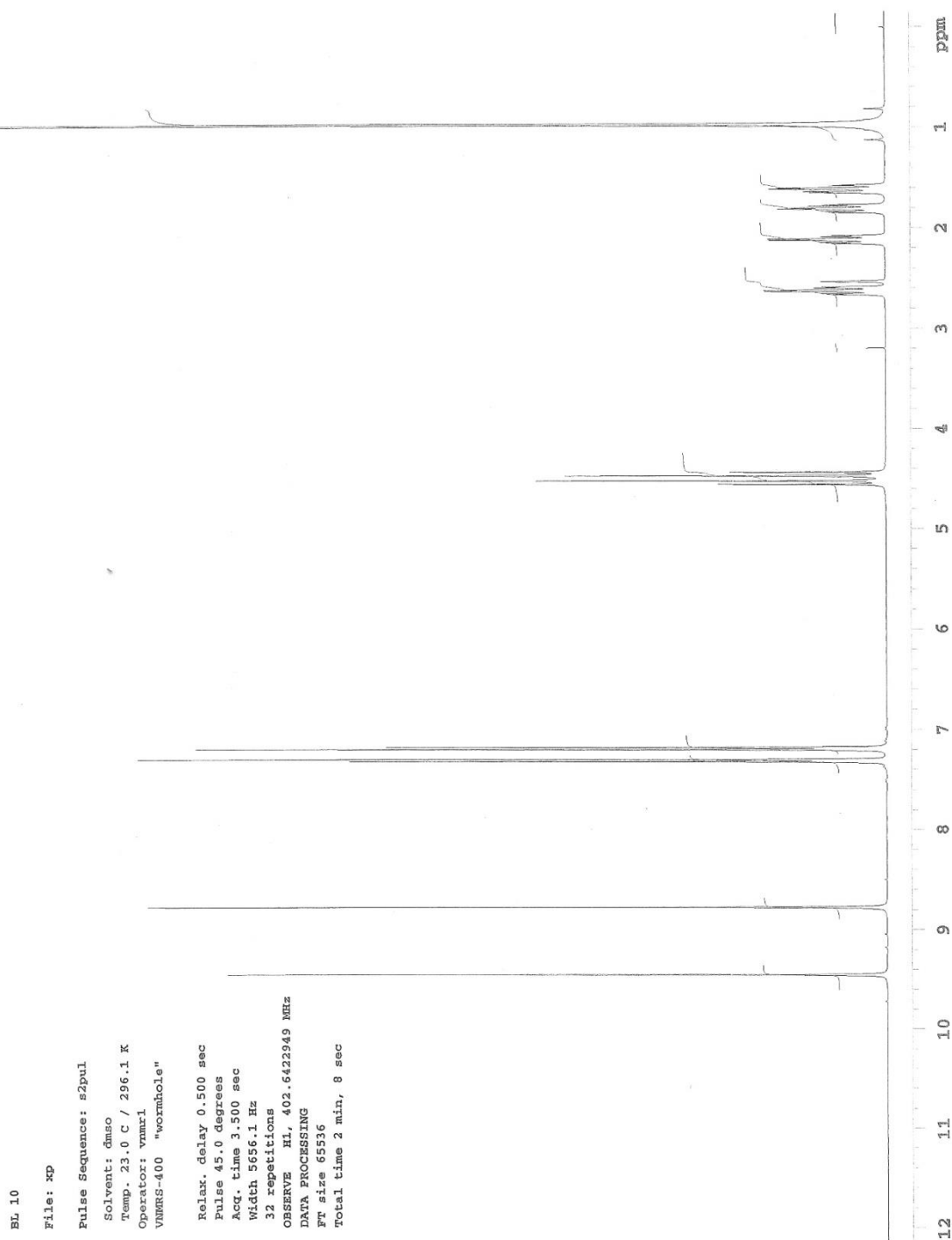
^{13}C NMR



	FREQUENCY	APR	HEIGHT
3	13044.884	173.213	86.9
4	13044.443	172.883	17.8
5	12985.482	173.101	12.6
6	11985.925	150.637	54.2
7	13866.567	145.344	47.9
8	13716.585	142.031	62.5
9	9823.183	130.131	53.0
10	9811.531	130.032	154.1
11	9871.745	128.183	156.8
12	5682.404	75.474	82.8
13	5476.003	72.496	23.0
14	5443.988	72.231	106.8
15	4846.401	53.549	43.5
16	3966.747	51.773	17.2
17	3671.385	48.658	4.4
18	3638.288	40.267	16.7
19	3017.189	38.868	80.9
20	2996.001	38.703	100.0
21	2974.956	38.424	117.2
22	2953.855	38.141	130.0
23	2932.793	38.876	48.4
24	2912.190	38.596	16.3
25	2895.654	37.980	96.5
26	2781.720	36.072	54.4
27	2210.913	29.302	51.0
28	1920.879	25.456	186.2

Tebuconazole nitrate

^1H NMR



ANULADA	FINANCIERAS	EFU	DEBITADA	ANULADA	FINANCIERAS	EFU	DEBITADA
1	3806.6	9.454	268.0	42	391.3	0.972	1877.7
2	3533.7	8.776	300.6	43	372.0	0.924	9.0
3	2948.4	7.323	218.4	44	328.0	0.815	8.5
4	2940.1	7.302	304.5	45	-0.0	-0.000	2.2
5	2898.8	7.200	280.9				
6	2890.4	7.178	203.3				
7	1834.9	4.557	68.1				
8	1820.5	4.521	142.1				
9	1800.3	4.471	130.4				
10	1786.0	4.436	63.3				
11	1286.5	3.195	8.1				
12	1072.3	2.663	21.9				
13	1068.3	2.653	25.7				
14	1059.3	2.631	49.1				
15	1055.3	2.621	49.4				
16	1046.4	2.599	29.3				
17	1042.6	2.589	26.1				
18	1021.2	2.536	20.4				
19	1019.6	2.532	26.3				
20	1017.9	2.528	19.7				
21	866.1	2.156	22.4				
22	863.2	2.144	26.5				
23	854.9	2.123	47.5				
24	850.1	2.111	47.8				
25	841.8	2.091	26.5				
26	837.0	2.079	23.5				
27	743.6	1.847	21.7				
28	738.8	1.835	23.5				
29	729.8	1.813	43.7				
30	725.0	1.801	40.7				
31	716.7	1.780	31.3				
32	711.7	1.768	25.0				
33	662.8	1.646	30.7				
34	658.9	1.636	33.4				
35	649.2	1.612	47.2				
36	645.2	1.602	44.3				
37	635.6	1.578	23.2				
38	631.4	1.568	18.9				
39	453.3	1.126	8.5				
40	418.6	1.040	4.4				
41	411.3	1.022	8.4				

¹³C NMR

EL 10

File: xp

Pulse Sequence: s2pul

Solvent: dmsd

Temp. 23.0 C / 296.1 K

Operator: vnmr1

VNMR-400 "wormhole"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.301 sec

Width 23584.9 Hz

880 repetitions

OBSERVE C13, 101.2445248 MHz

DECOUPLE H1, 402.6443349 MHz

Power 39 dB

continuously on

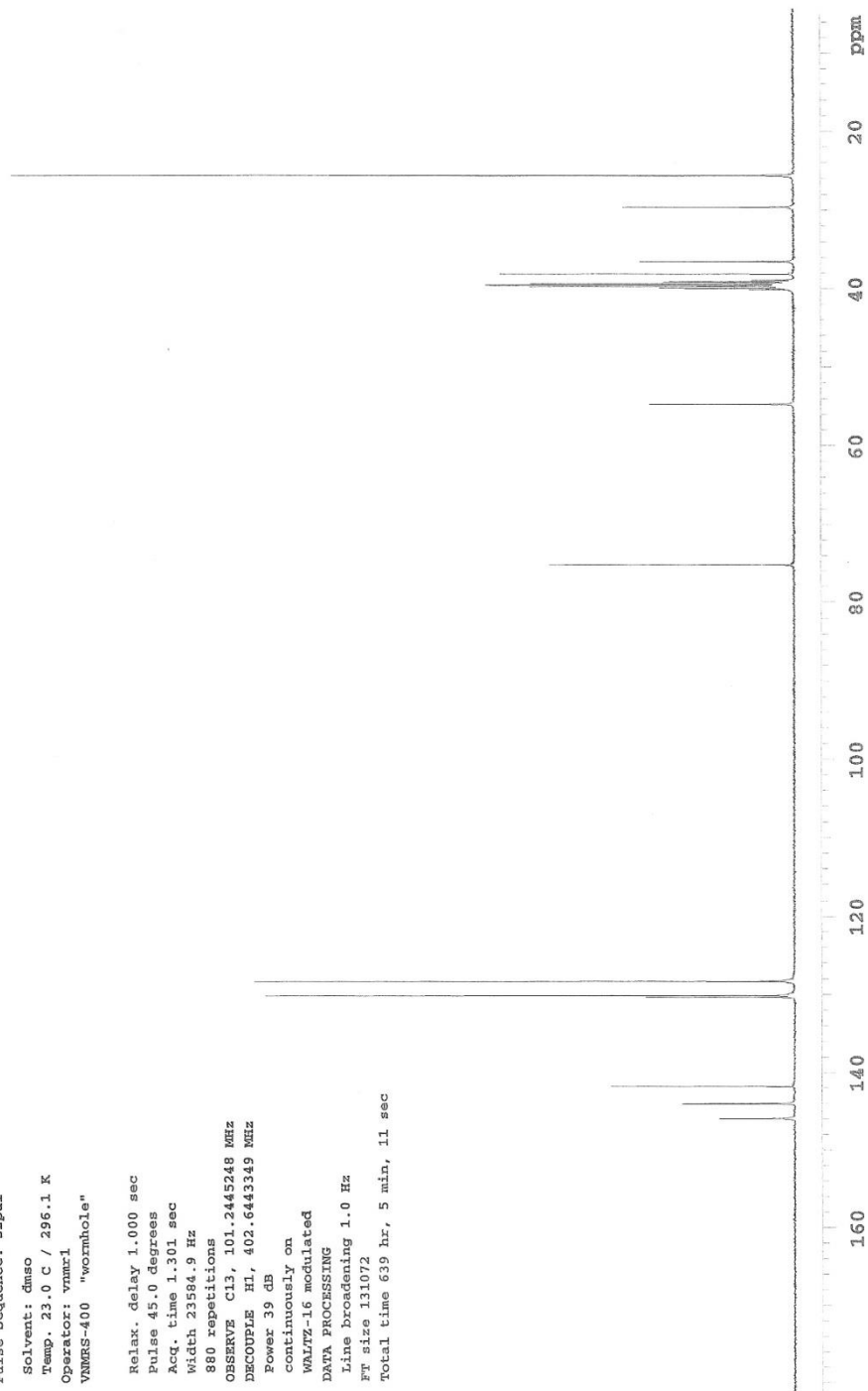
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 131072

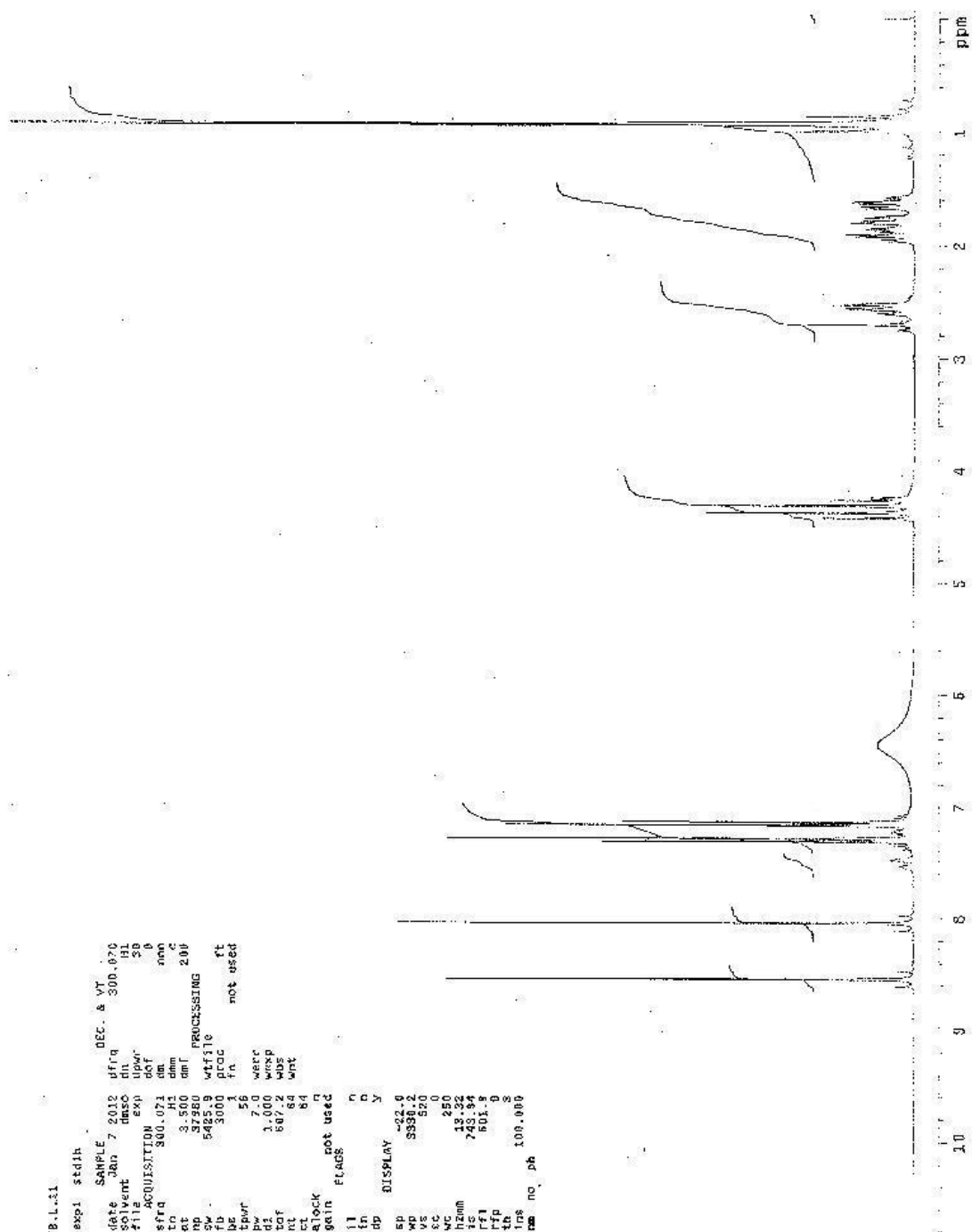
Total time 639 hr, 5 min, 11 sec



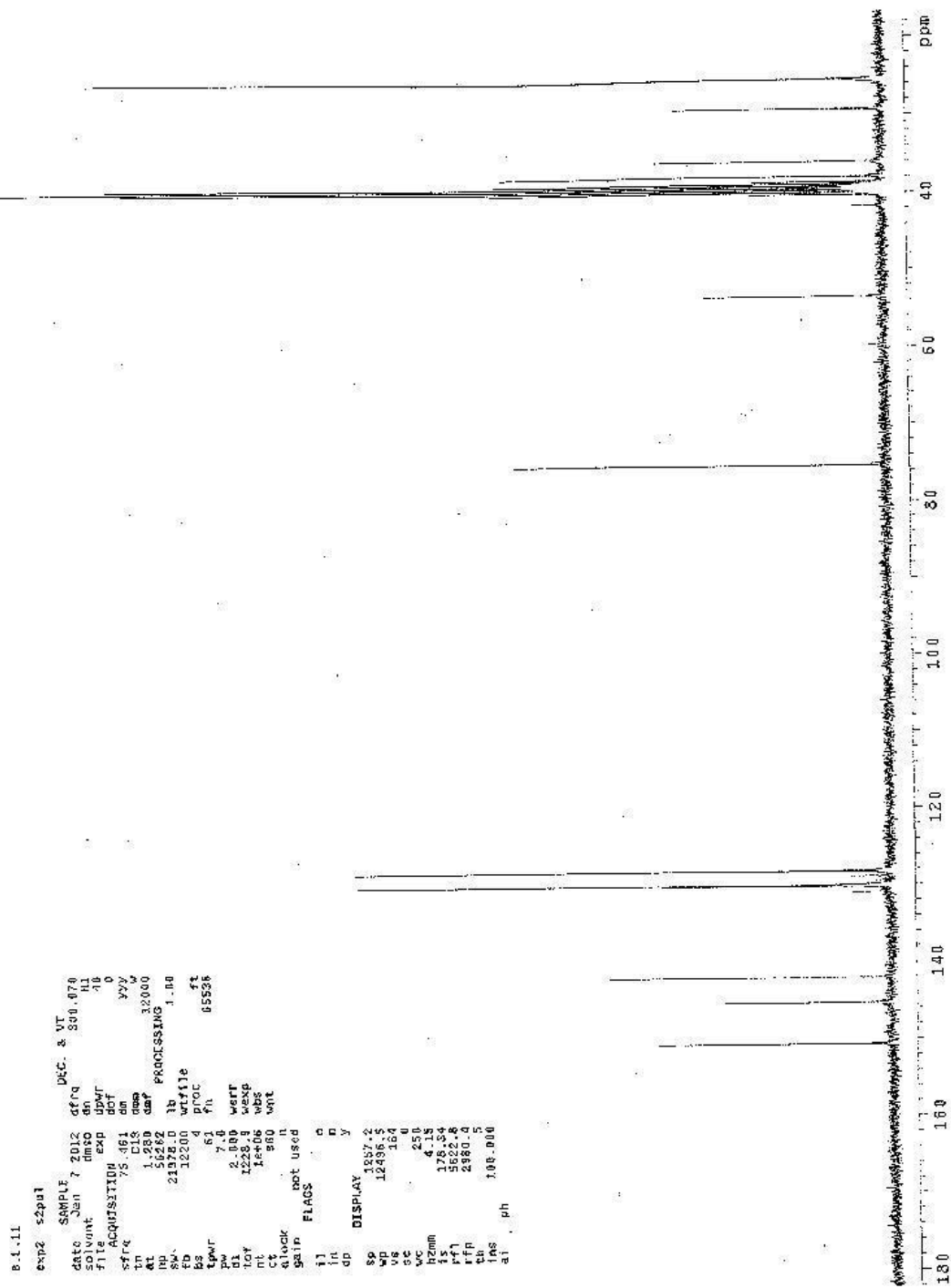
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1	14783.6	146.019	13.6
2	14583.1	144.039	20.1
3	14355.3	141.789	32.8
4	13195.8	130.336	26.5
5	13175.3	130.134	94.8
6	12989.6	128.299	96.7
7	7610.9	75.173	43.6
8	5539.8	54.717	25.6
9	4041.3	39.916	23.9
10	4020.4	38.710	47.1
11	3999.2	38.500	55.0
12	3978.3	38.294	46.8
13	3957.4	38.088	23.1
14	3857.4	38.100	52.4
15	3696.9	36.514	27.4
16	2997.3	29.604	30.4
17	2590.2	25.584	140.2

Tebuconazole dihydrogenphosphate

^1H NMR



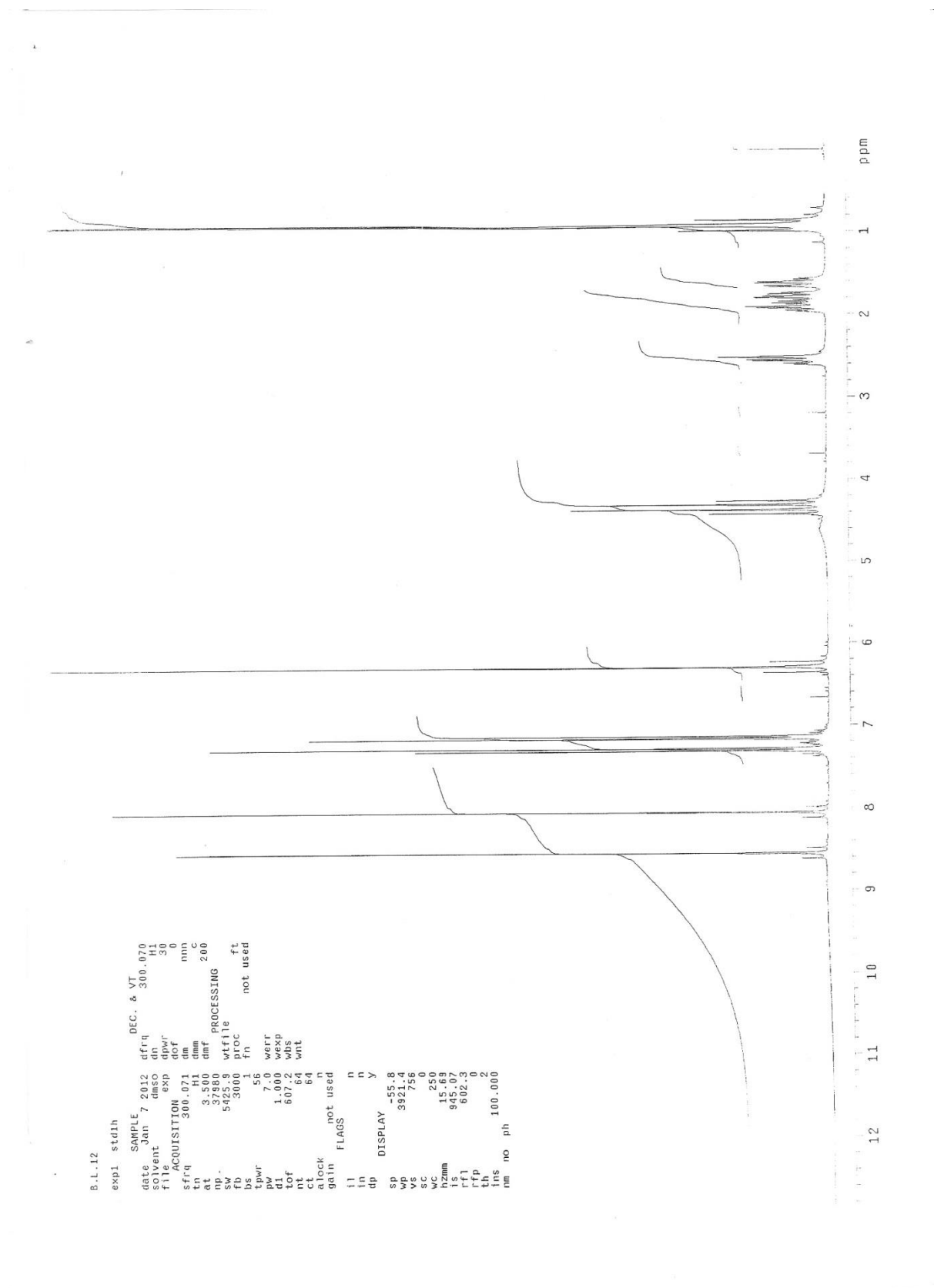
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2582.236	8.505	8.8	40	757.581	2.525	17.5
2	2582.528	8.540	82.6	41	755.925	2.519	12.7
3	2582.528	8.475	3.2	42	753.772	2.512	11.0
4	2482.508	8.106	4.8	43	533.678	1.802	5.4
5	2482.508	8.028	102.4	44	533.870	1.846	6.9
6	2382.737	7.874	3.6	45	570.386	1.815	11.5
7	2259.627	7.551	2.8	46	570.389	1.803	18.7
8	2258.005	7.525	3.0	47	562.680	1.875	6.8
9	2254.427	7.480	4.7	48	533.803	1.860	9.8
10	2240.948	7.408	4.8	49	553.407	1.844	8.8
11	2238.466	7.450	5.5	50	548.605	1.828	5.8
12	2205.182	7.342	4.2	51	539.663	1.793	12.7
13	2193.798	7.311	61.8	52	535.028	1.783	11.2
14	2191.834	7.305	24.4	53	528.812	1.756	10.1
15	2187.132	7.289	28.5	54	522.110	1.740	7.9
16	2185.911	7.283	12.6	55	501.060	1.670	9.8
17	2182.982	7.275	16.1	56	496.040	1.656	10.9
18	2179.216	7.246	3.4	57	487.667	1.625	12.6
19	2188.418	7.230	4.5	58	483.582	1.611	12.1
20	2167.796	7.224	3.7	59	474.234	1.580	5.8
21	2165.771	7.218	5.0	60	463.788	1.566	4.3
22	2166.369	7.202	3.7	61	287.881	0.883	24.1
23	2149.583	7.104	81.0	62	278.184	0.927	520.0
24	2141.263	7.136	57.6	63	259.654	0.862	21.7
25	2130.603	7.088	4.1	64	238.943	0.796	3.5
26	2131.784	7.071	3.2	65	-0.008	-0.000	6.8
27	1933.281	6.443	7.3				
28	1826.222	4.430	18.2				
29	1811.818	4.372	41.2				
30	1293.485	4.910	28.8				
31	1279.184	4.263	18.1				
32	1272.624	4.238	6.7				
33	824.377	2.768	3.7				
34	821.168	2.757	3.4				
35	810.736	2.702	31.3				
36	789.482	2.610	6.9				
37	778.777	2.585	7.4				
38	770.322	2.567	13.0				
39	766.026	2.553	13.9				

¹³C NMR

INDEX	FREQUENCY	PPM	HEIGHT
1	11387.828	130.668	45.3
2	10866.158	145.338	52.4
3	10717.868	142.050	54.4
4	9878.223	130.120	7.4
5	9820.540	130.155	42.8
6	9811.820	130.040	102.8
7	9722.612	128.853	7.3
8	9870.866	128.173	104.2
9	5888.424	75.405	68.8
10	4058.778	55.502	34.6
11	3043.413	40.336	24.6
12	3022.626	40.060	74.1
13	3001.182	39.776	146.4
14	2980.308	39.500	176.3
15	2959.577	39.224	159.6
16	2938.183	38.940	75.3
17	2917.320	38.664	26.7
18	2895.673	37.980	72.4
19	2719.453	36.042	43.8
20	2286.952	29.268	39.6
21	1921.276	25.463	152.8

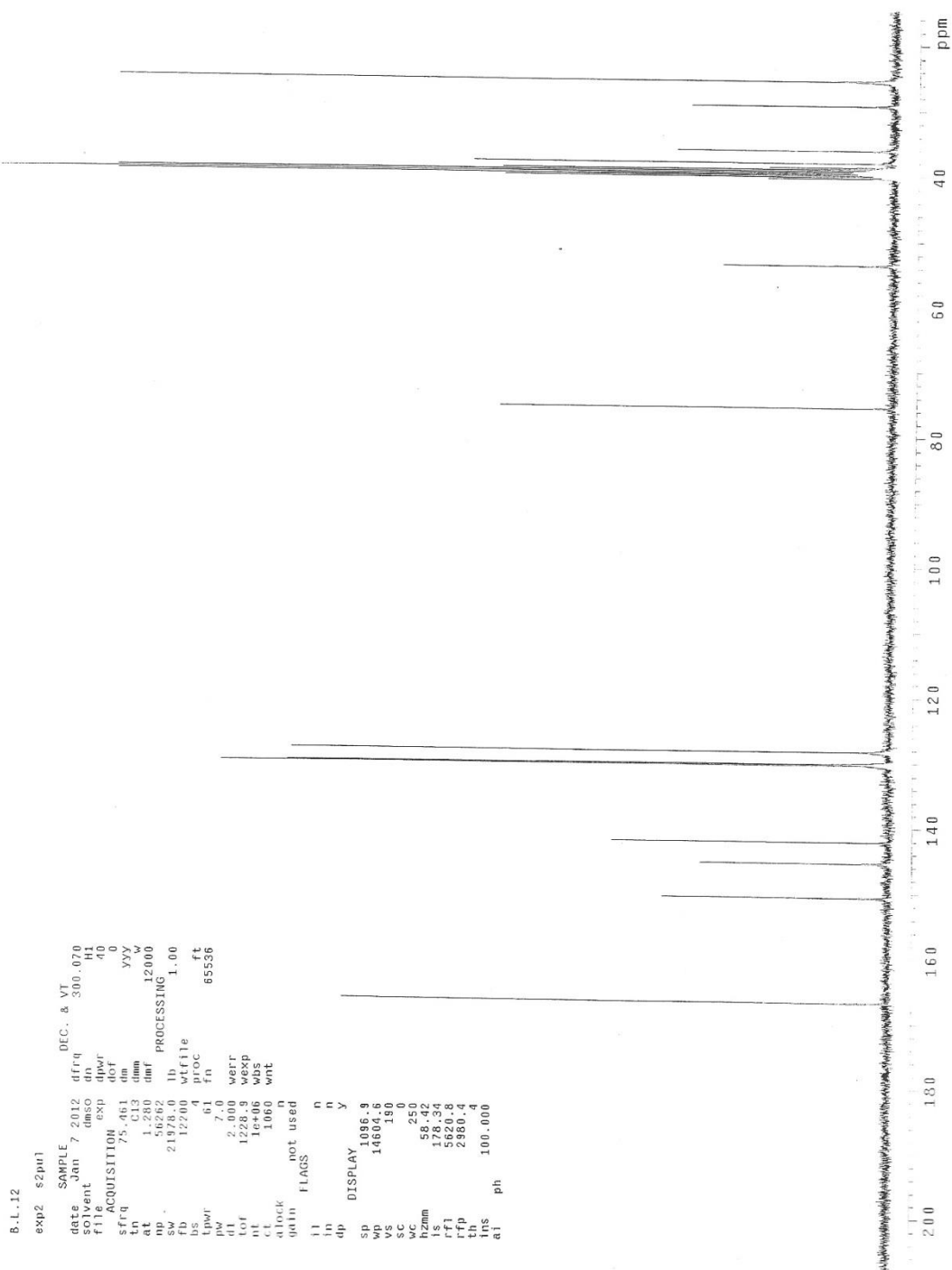
Tebuconazole maleate

¹H NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2586.208	8.619	6.8	40	1332.183	4.440	3.6	79	239.280	0.797	4.8	80	215.435	0.718	3.4
2	2566.502	8.553	150.8	41	1327.050	4.422	27.2	81	-0.000	-0.000	17.8				
3	2560.541	8.533	2.5	42	1312.644	4.374	58.1								
4	2546.797	8.487	5.7	43	1293.932	4.312	54.5								
5	2456.347	8.119	6.8	44	1279.525	4.264	25.6								
6	2416.642	8.054	165.5	45	1274.226	4.246	4.6								
7	2396.937	7.988	3.7	46	1106.151	3.686	5.1								
8	2213.627	7.377	4.0	47	958.443	3.194	4.1								
9	2211.971	7.372	2.4	48	783.248	2.610	7.4								
10	2205.347	7.349	6.4	49	778.382	2.586	9.8								
11	2196.571	7.320	11.0	50	770.332	2.567	17.0								
12	2194.087	7.312	95.5	51	766.192	2.553	18.4								
13	2192.100	7.305	33.2	52	761.058	2.536	7.7								
14	2187.629	7.280	38.4	53	759.071	2.530	16.1								
15	2185.642	7.284	142.7	54	757.415	2.524	25.0								
16	2183.158	7.276	19.6	55	755.584	2.518	17.1								
17	2174.382	7.246	4.2	56	753.607	2.511	15.4								
18	2172.560	7.240	2.8	57	580.830	1.969	7.1								
19	2169.248	7.229	6.1	58	586.028	1.953	9.3								
20	2165.937	7.218	6.8	59	577.749	1.925	16.0								
21	2163.121	7.209	3.4	60	572.947	1.909	18.5								
22	2160.803	7.201	4.9	61	564.667	1.882	9.2								
23	2152.027	7.172	17.6	62	560.030	1.866	12.4								
24	2149.709	7.164	119.9	63	553.241	1.844	10.9								
25	2147.721	7.157	37.5	64	546.433	1.828	7.5								
26	2143.085	7.142	30.4	65	539.497	1.798	16.6								
27	2141.263	7.136	83.0	66	534.860	1.782	14.6								
28	2138.780	7.128	11.4	67	526.746	1.755	13.5								
29	2130.003	7.098	4.9	68	521.944	1.739	10.3								
30	2121.558	7.070	3.5	69	500.417	1.668	13.1								
31	1999.186	6.662	4.3	70	496.278	1.654	14.3								
32	1908.607	6.361	15.1	71	487.005	1.623	16.4								
33	1893.207	6.309	5.7	72	482.699	1.609	15.7								
34	1892.214	6.306	6.3	73	473.426	1.578	7.6								
35	1888.402	6.285	469.1	74	469.121	1.563	6.2								
36	1885.425	6.283	10.2	75	340.456	1.135	3.0								
37	1884.431	6.280	8.0	76	288.230	0.994	33.9								
38	1881.450	6.270	3.3	77	278.525	0.928	756.2								
39	1869.197	6.229	13.7	78	258.819	0.863	30.0								

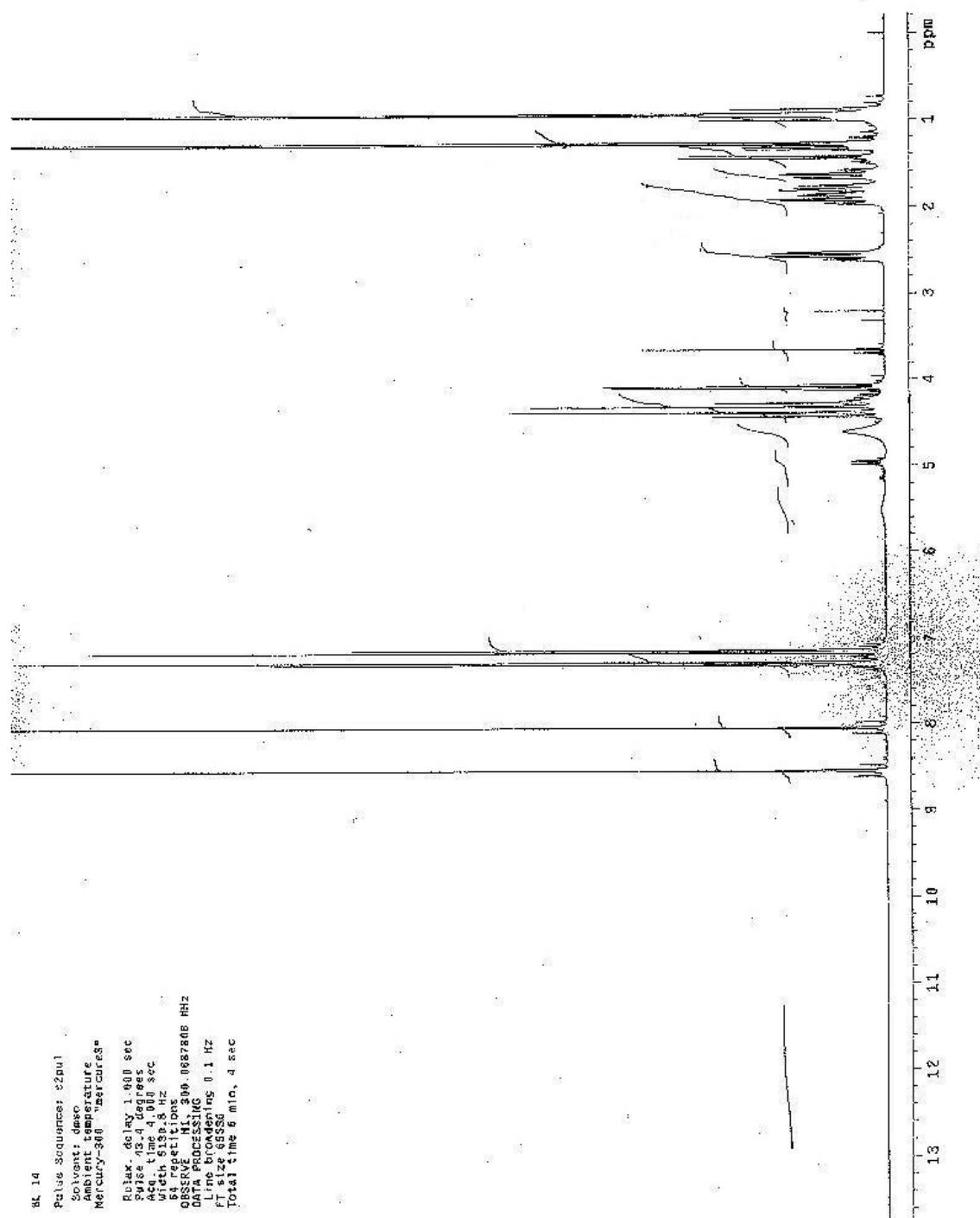
¹³C NMR



INDEX	FREQUENCY	PPM	HEIGHT
1	12583.974	166.780	106.9
2	11361.892	150.584	44.2
3	10965.487	145.330	36.7
4	10718.656	142.059	54.0
5	9826.576	130.235	130.8
6	9823.223	130.191	51.3
7	9813.162	130.058	117.7
8	9673.649	128.209	117.0
9	5691.486	75.431	76.8
10	4040.133	53.545	33.2
11	3042.708	40.327	24.8
12	3021.955	40.051	76.4
13	3001.182	39.776	152.4
14	2980.369	38.500	175.6
15	2956.906	38.216	152.5
16	2938.113	38.940	76.8
17	2917.320	38.664	24.6
18	2867.015	37.998	82.6
19	2722.136	36.078	42.5
20	2211.035	29.304	39.8
21	1922.618	25.481	152.5

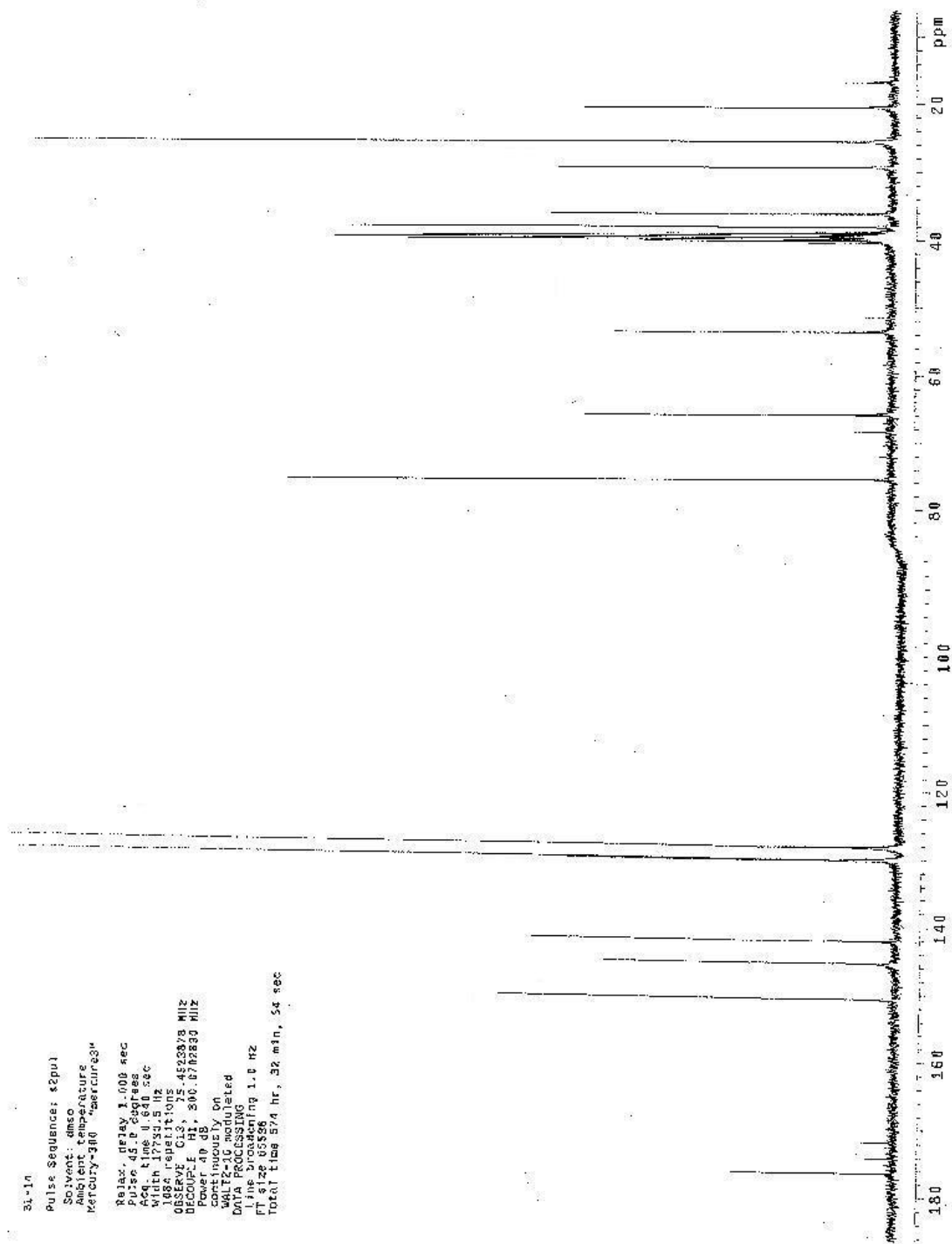
Tebuconazole D,L-lactate

^1H NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2582.974	8.611	7.0	40	1886.307	4.220	6.5	79	477.742	1.592	9.7
2	2583.951	8.544	194.7	41	1884.271	4.213	6.2	80	473.359	1.577	8.2
3	2584.671	8.480	5.7	42	1252.005	4.192	5.7	81	451.553	1.505	4.9
4	2434.121	8.112	7.1	43	1251.128	4.159	5.2	82	449.087	1.487	3.5
5	2414.078	8.045	221.1	44	1244.072	4.148	3.9	83	448.112	1.487	5.7
6	2394.818	7.951	6.3	45	1237.852	4.125	16.7	84	442.703	1.482	6.3
7	2385.170	7.926	4.2	46	1230.752	4.102	56.1	85	442.043	1.472	3.8
8	2204.880	7.308	6.8	47	1223.872	4.079	57.8	86	439.088	1.468	6.4
9	2202.378	7.340	2.8	48	1218.982	4.056	17.8	87	433.272	1.444	42.4
10	2185.642	7.317	15.8	49	1218.357	3.960	2.6	88	426.225	1.420	40.1
11	2195.293	7.303	126.1	50	1208.312	3.934	6.5	89	420.589	1.402	3.6
12	2181.257	7.303	41.4	51	1107.372	3.890	5.7	90	418.710	1.395	2.5
13	2186.716	7.287	58.3	52	1095.159	3.850	41.9	91	417.827	1.383	2.5
14	2184.837	7.281	186.4	53	885.727	3.818	4.9	92	415.578	1.389	2.6
15	2192.332	7.273	24.7	54	882.893	3.798	14.5	93	414.012	1.380	2.9
16	2179.876	7.245	5.1	55	786.529	2.821	9.8	94	411.037	1.370	2.5
17	2179.740	7.254	6.9	56	782.144	2.807	12.6	95	405.713	1.352	10.9
18	2167.769	7.224	3.8	57	773.631	2.578	22.6	96	402.425	1.341	28.2
19	2165.577	7.217	7.4	58	769.451	2.164	24.3	97	397.787	1.325	28.9
20	2162.889	7.208	5.7	59	761.152	2.537	23.2	98	395.535	1.316	28.3
21	2163.650	7.175	25.3	60	759.440	2.531	21.9	99	390.837	1.302	25.2
22	2160.702	7.187	168.8	61	757.561	2.525	21.1	100	388.670	1.285	207.4
23	2148.828	7.181	48.0	62	591.428	1.371	8.6	101	378.760	1.262	205.8
24	2148.866	7.245	42.2	63	586.561	1.455	12.4	102	371.681	1.259	2.6
25	2142.246	7.139	109.4	64	578.270	1.327	21.9	103	366.597	1.222	7.8
26	2131.442	7.109	5.7	65	573.729	1.312	24.2	104	359.877	1.199	7.2
27	2122.986	7.075	4.0	66	505.274	1.984	11.9	105	343.078	1.149	5.0
28	1484.322	4.882	7.0	67	560.576	1.868	17.9	106	340.260	1.134	2.6
29	1480.694	4.963	6.0	68	556.375	1.856	15.8	107	321.313	1.071	9.1
30	1487.875	4.953	7.1	69	552.277	1.841	8.3	108	314.424	1.048	9.6
31	1483.647	4.844	6.0	70	543.352	1.911	21.6	109	309.857	1.063	37.7
32	1362.606	4.808	8.7	71	538.654	1.795	18.0	110	286.573	0.988	13.0
33	1394.735	4.643	9.9	72	530.512	1.763	17.5	111	280.914	0.958	913.3
34	1329.254	4.430	35.4	73	525.857	1.752	12.2	112	281.854	0.972	31.5
35	1314.840	4.382	76.9	74	510.938	1.783	3.1	113	242.481	0.807	4.2
36	1295.901	4.313	72.6	75	504.875	1.682	12.0	114	217.357	0.726	3.5
37	1281.406	4.271	34.9	76	500.447	1.688	18.7	115	-0.000	-0.000	3.9
38	1272.352	4.244	7.8	77	491.289	1.537	21.6				
	1271.151	4.236	6.8	78	486.381	1.823	20.3				

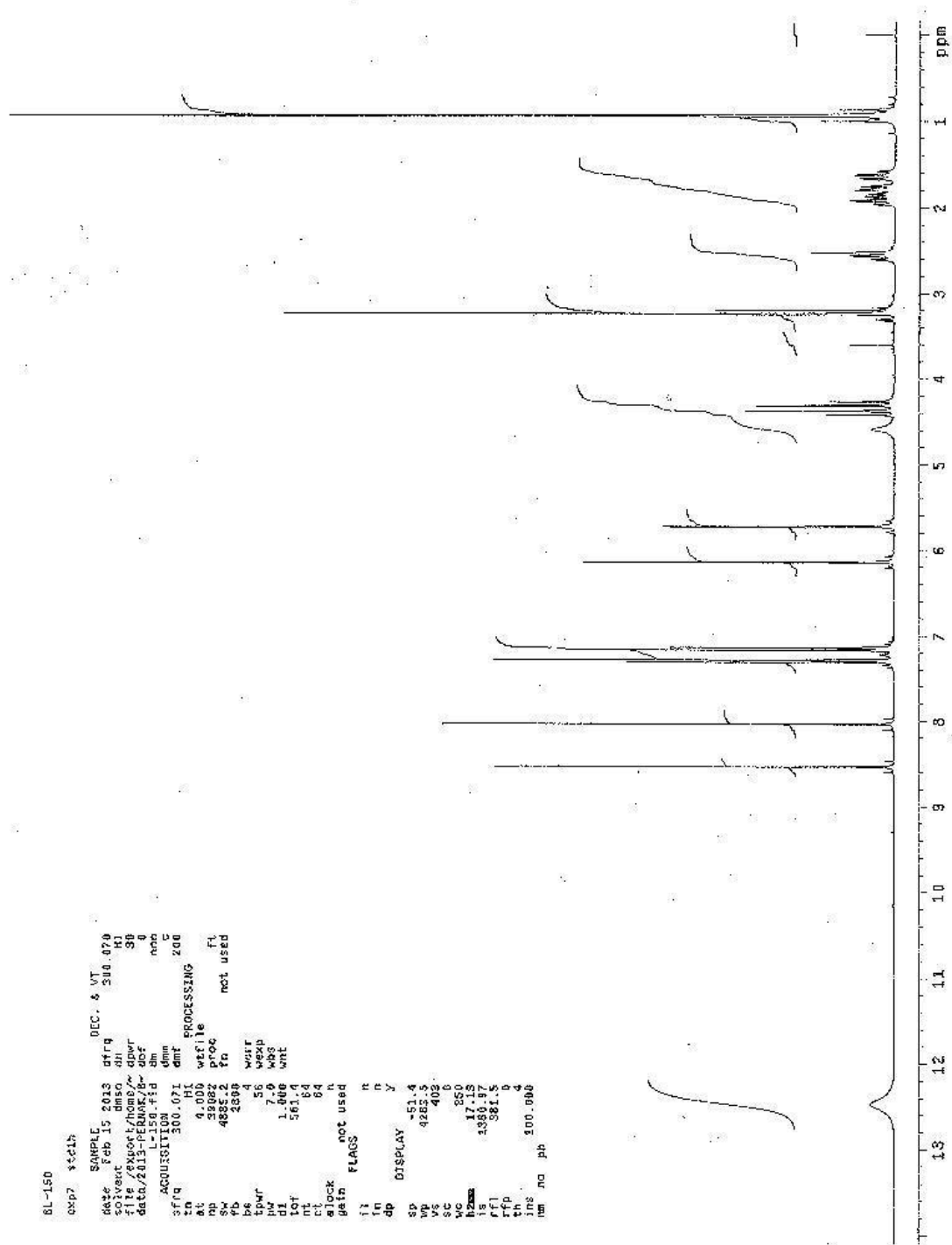
¹³C NMR



EX		FREQUENCY	PPM	HEIGHT
1		13308.534	176.383	52.8
2		13135.890	174.045	5.8
3		12962.735	171.800	6.7
4		11963.089	169.696	80.3
5		10966.687	145.344	56.8
6		10717.138	142.038	79.7
7		9829.225	130.191	56.6
8		9810.788	130.036	137.5
9		9871.124	126.478	137.0
10		5881.563	75.438	122.1
11		5481.577	66.408	6.0
12		5184.543	68.313	7.4
13		4877.058	65.863	6.7
14		4866.778	65.827	62.4
15		4956.497	65.684	9.2
16		4039.859	53.542	56.1
17		3879.691	51.919	5.8
18		3043.138	48.892	17.0
19		3022.576	48.059	50.1
20		3001.473	39.780	87.9
21		2880.389	39.500	112.8
22		2853.265	39.220	95.0
23		2838.704	38.843	45.5
24		2817.501	38.663	13.5
25		2365.854	37.180	108.5
26		2722.281	36.079	69.0
27		2210.913	28.302	67.5
28		1821.420	25.465	245.4
29		1545.350	20.481	62.5
30		1530.337	20.385	20.1
31		1262.433	16.745	9.5

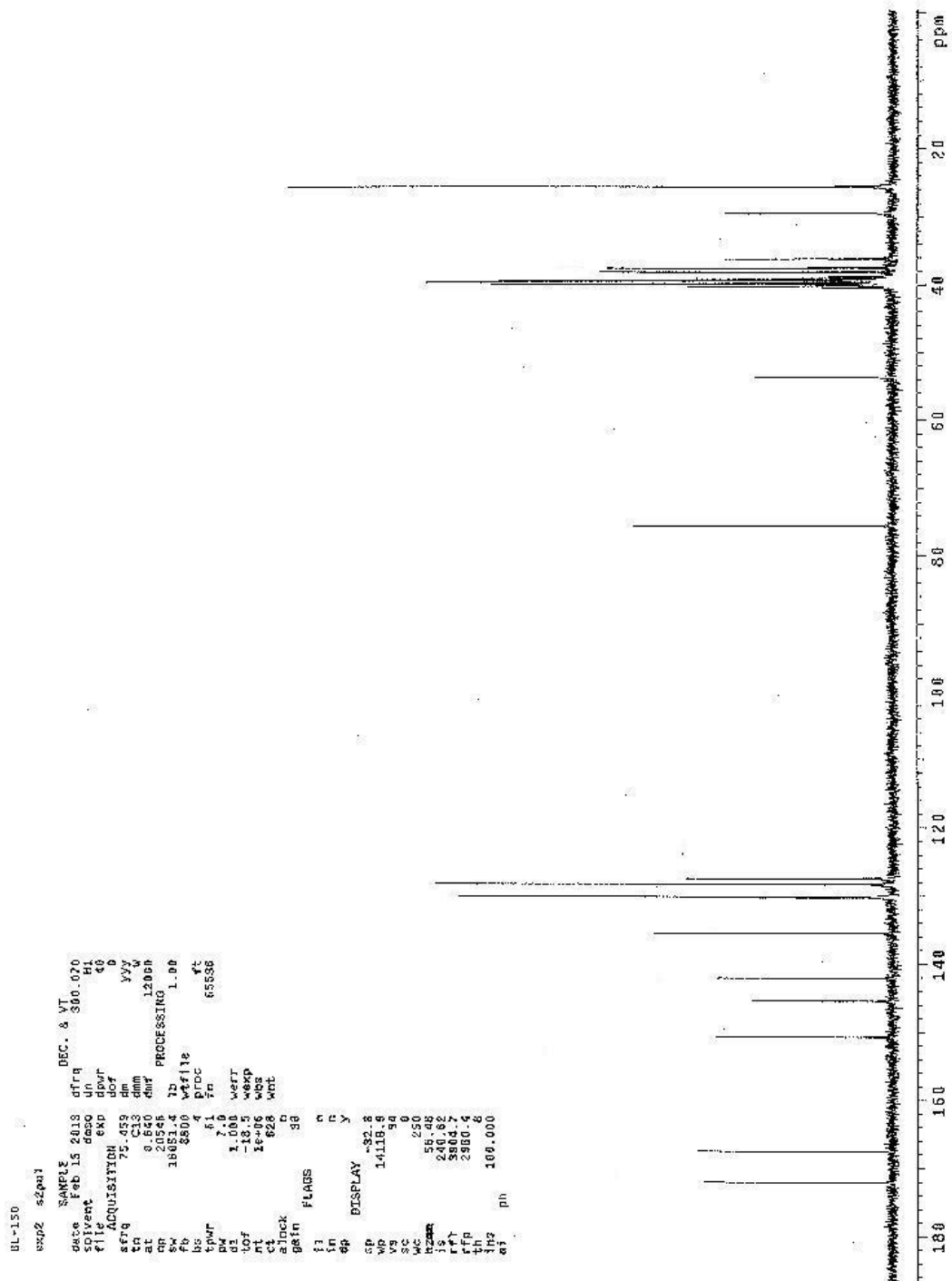
Tebuconazole itaconate

^1H NMR



INDEX	FREQUENCY	OPN	HEIGHT	INDEX	FREQUENCY	PPK	HEIGHT
1	3741.069	12.467	4.5-5.4	40	585.920	1.953	4.7
2	2560.139	8.532	80.6	41	577.720	1.866	8.0
3	2411.219	8.030	91.3	42	572.949	1.809	9.3
4	2186.782	7.379	5.4	43	560.600	1.862	4.0
5	2193.240	7.309	54.0	44	559.173	1.865	8.2
6	2191.809	7.303	18.0	45	553.268	1.864	5.4
7	2189.637	7.288	20.0	46	546.498	1.828	3.8
8	2184.750	7.281	81.0	47	539.553	1.788	8.2
9	2182.215	7.272	18.8	48	534.782	1.782	7.3
10	2151.503	7.170	8.4	49	526.731	1.755	6.9
11	2148.965	7.162	65.5	50	521.860	1.738	5.1
12	2147.030	7.155	18.1	51	501.483	1.670	8.6
13	2142.408	7.140	19.3	52	486.784	1.656	7.8
14	2140.478	7.132	45.3	53	487.521	1.625	8.3
15	2137.938	7.125	5.8	54	483.197	1.610	7.8
16	1843.137	6.143	61.2	55	474.108	1.580	5.8
17	1841.587	6.137	62.8	56	298.476	0.995	13.1
18	1717.382	5.725	45.3	57	273.647	0.929	402.8
19	1716.461	5.726	46.8	58	258.968	0.868	11.4
20	1376.383	4.587	4.8	59	0.000	0.000	6.2
21	1328.146	4.419	14.0				
22	1311.824	4.372	30.3				
23	1293.049	4.309	27.9				
24	1278.587	4.261	13.2				
25	1094.439	3.606	8.0				
26	990.898	3.802	4.0				
27	971.464	3.237	118.5				
28	971.018	3.236	123.5				
29	953.642	3.195	39.5				
30	951.237	3.178	4.7				
31	783.164	2.610	3.9				
32	778.872	2.585	5.1				
33	778.503	2.567	8.7				
34	766.018	2.553	9.3				
35	766.001	2.533	5.0				
36	759.012	2.523	11.2				
37	757.223	2.523	16.9				
38	759.285	2.517	11.8				
39	753.488	2.511	9.4				

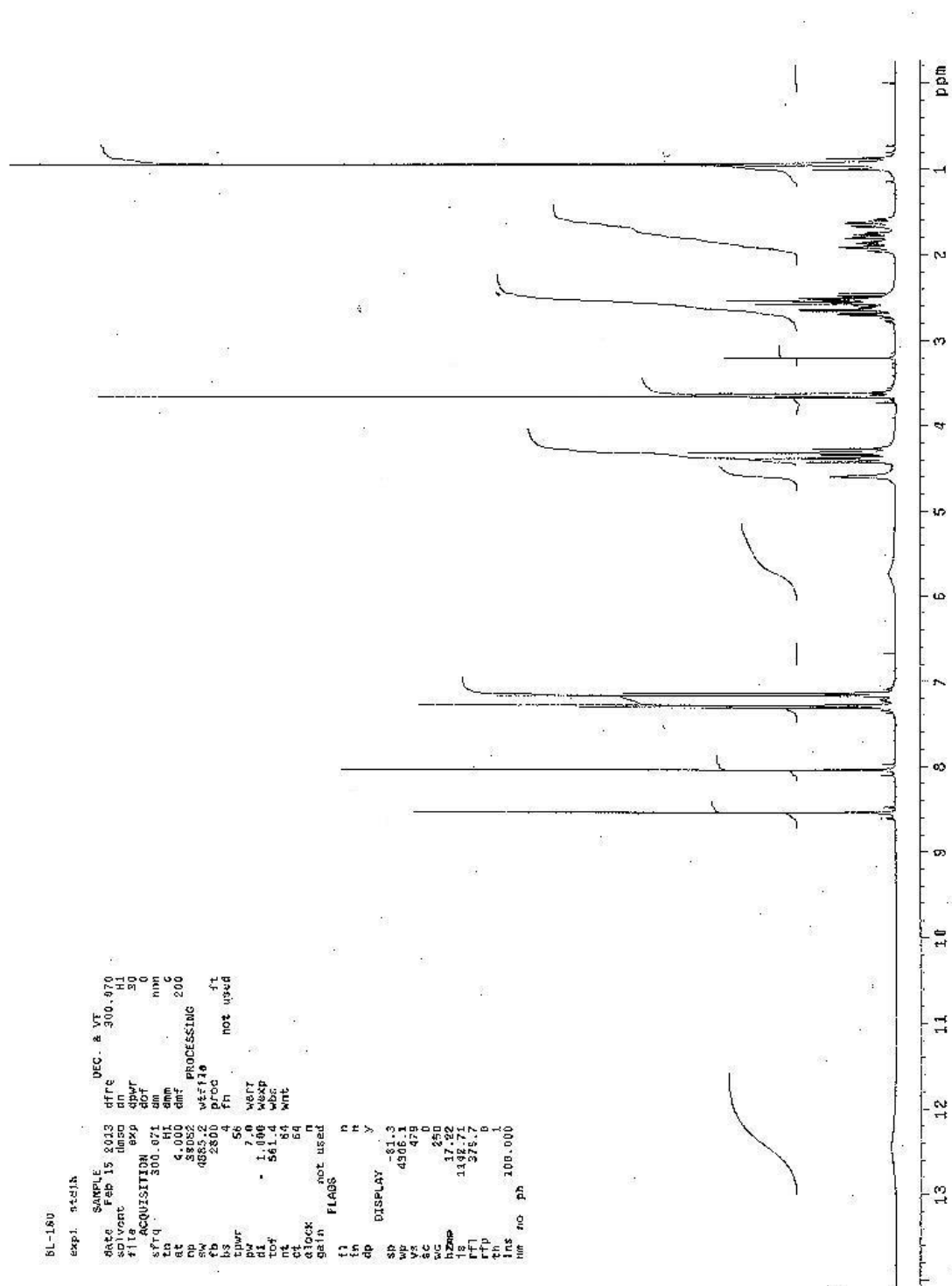
¹³C NMR



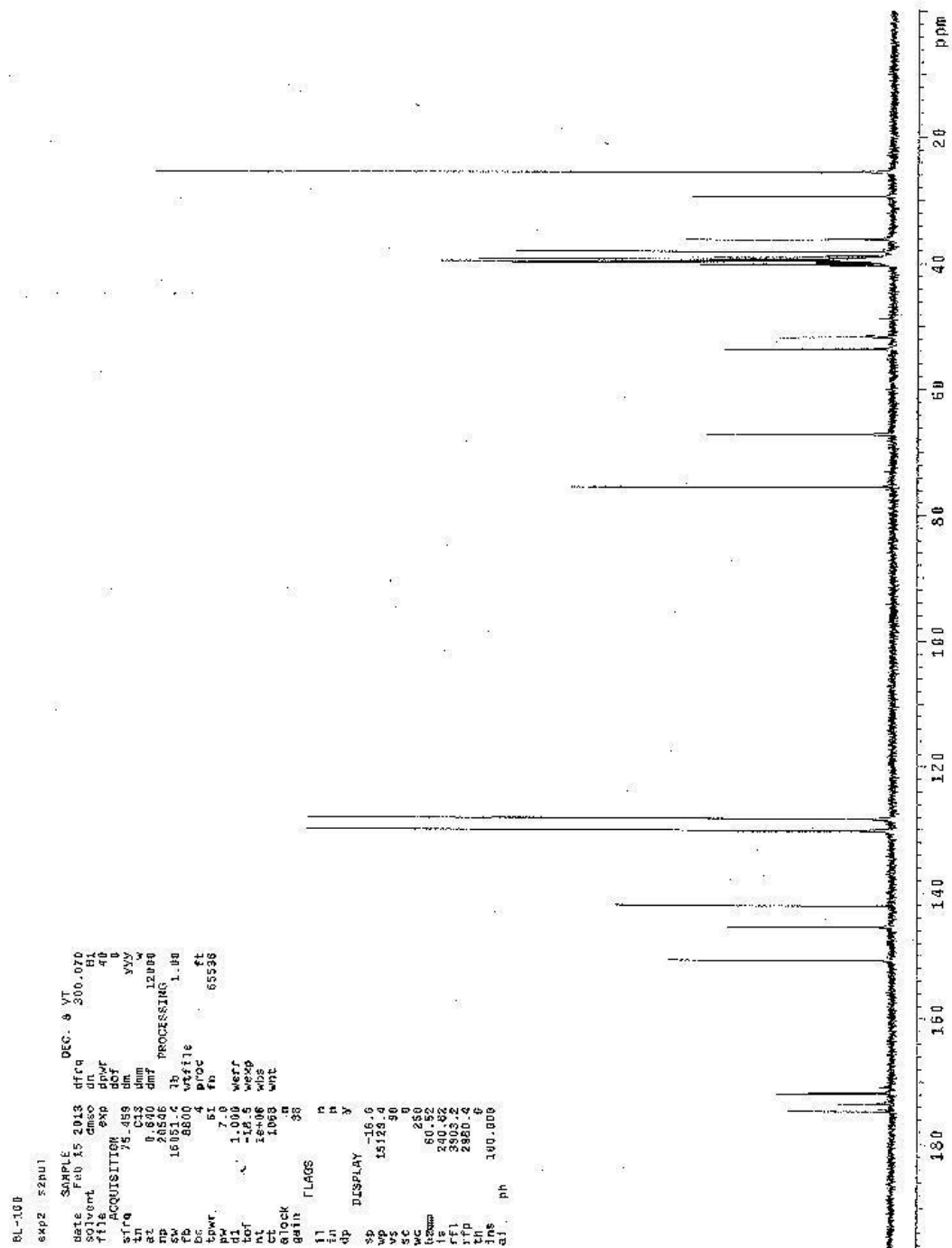
INDEX	FREQUENCY	PPM	HEIGHT
1	12311.917	172.054	36.5
2	12643.421	157.566	36.0
3	13393.775	150.696	34.3
4	13966.577	145.371	27.4
5	13749.726	142.073	34.1
6	13222.514	135.483	46.6
7	13241.745	136.211	27.7
8	1313.365	139.068	84.4
9	9674.357	128.213	69.0
10	9512.634	127.409	40.2
11	5683.235	75.455	50.4
12	4031.844	53.543	26.3
13	3043.562	40.338	13.7
14	3022.488	40.058	28.8
15	3001.433	39.773	74.1
16	2860.368	38.500	96.6
17	2834.305	38.221	76.5
18	2854.751	39.348	30.0
19	2817.177	38.562	12.4
20	2367.701	36.607	56.3
21	2355.552	37.461	55.4
22	2722.761	36.065	32.6
23	2411.773	28.513	32.5
24	1923.243	25.483	117.8

Tebuconazole malate

^1H NMR



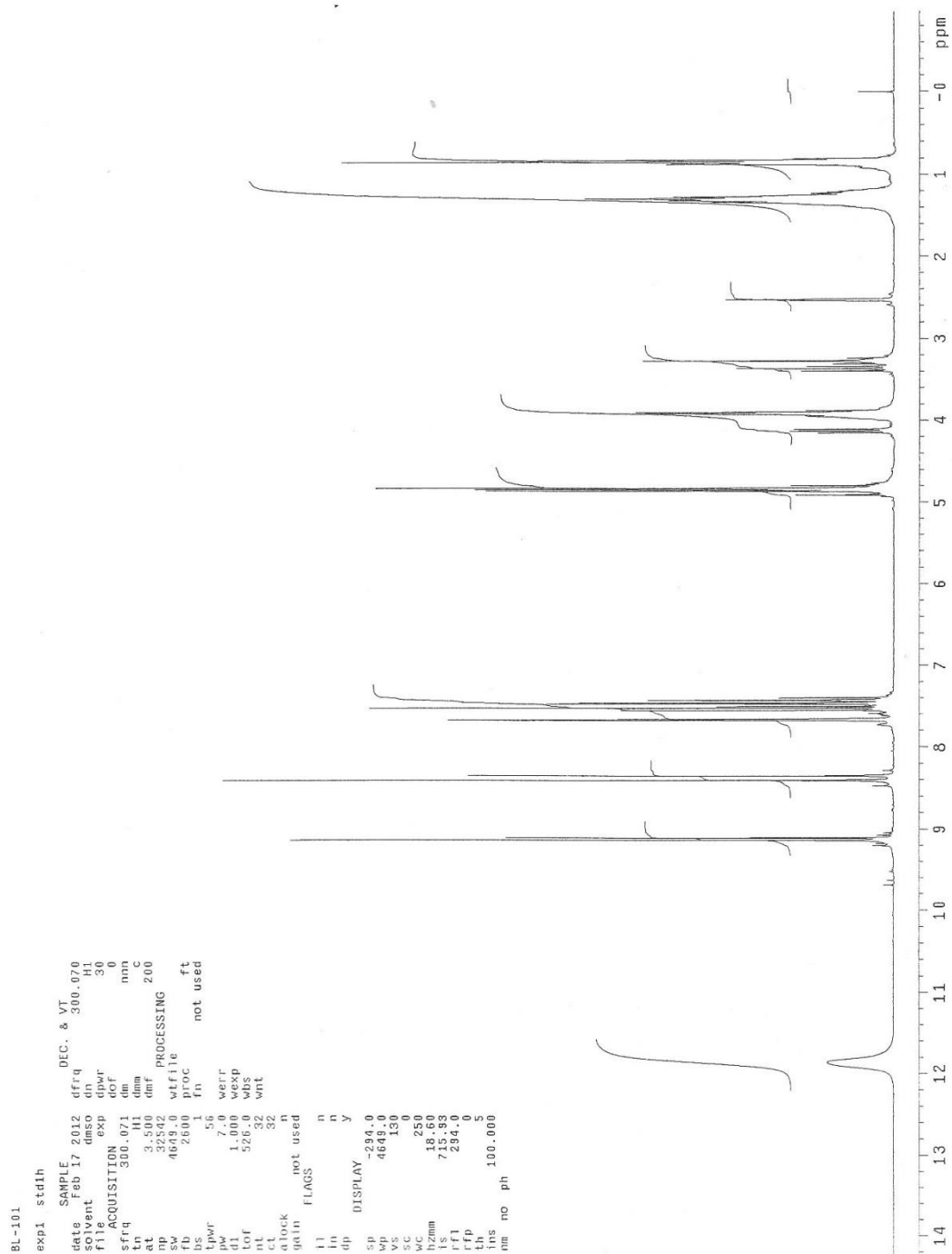
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	3297.064	12.454	0.8	40	1333.964	4.464	0.6	79	818.949	2.737	3.2	113	541.044	1.893	10.3				
2	2881.475	8.603	3.0	41	1337.030	4.456	0.8	80	815.216	2.717	2.7	114	536.432	1.788	9.0				
3	2567.312	8.585	1.7	42	1338.153	4.443	2.2	81	813.429	2.711	4.3	115	528.371	1.701	8.5				
4	2561.646	8.537	97.5	43	1337.788	4.425	13.0	82	812.237	2.707	9.3	121	523.451	1.744	6.4				
5	2555.832	8.517	1.0	44	1325.252	4.416	8.2	83	808.255	2.697	11.7	122	502.877	1.678	8.1				
6	2542.116	8.472	2.5	45	1320.184	4.389	3.1	84	807.168	2.690	9.8	123	496.553	1.681	4.0				
7	2432.237	8.105	3.1	46	1317.648	4.381	9.4	85	804.084	2.681	11.2	124	489.510	1.681	10.2				
8	2412.488	8.040	112.1	47	1313.325	4.377	49.8	86	800.011	2.666	13.1	125	485.135	1.617	9.7				
9	2405.388	8.018	0.8	48	1298.238	4.365	4.2	87	796.433	2.665	18.3	126	473.852	1.586	4.6				
10	2392.679	7.974	1.3	49	1301.547	4.367	14.3	88	793.601	2.665	18.3	127	471.453	1.571	3.3				
11	2212.327	7.376	1.1	50	1294.627	4.357	23.3	89	791.364	2.657	19.5	128	462.010	1.134	2.1				
12	2201.158	7.347	1.1	51	1294.932	4.343	41.3	90	788.830	2.659	19.5	129	461.138	1.078	0.3				
13	2204.573	7.347	5.0	52	1289.923	4.286	15.5	91	787.510	2.654	7.5	130	451.188	1.064	0.8				
14	2185.623	7.317	6.8	53	1289.923	4.286	15.5	92	784.306	2.654	7.5	131	445.023	1.050	1.1				
15	2193.843	7.303	63.7	54	1280.227	4.260	18.3	93	778.437	2.588	3.4	132	433.689	0.933	16.8				
16	2191.150	7.302	21.1	55	1275.089	4.243	2.9	94	776.903	2.589	4.0	133	429.969	0.933	16.8				
17	2186.680	7.287	25.4	56	1268.642	4.241	1.0	95	771.386	2.571	28.5	134	426.458	0.863	14.2				
18	2184.750	7.281	96.3	57	1260.345	4.201	0.7	96	767.510	2.558	13.1	135	420.779	0.802	1.9				
19	2182.215	7.272	12.7	58	1170.645	3.901	3.3	97	763.783	2.545	20.7	136	416.924	0.723	1.5				
20	2179.568	7.244	2.1	59	1117.571	3.724	0.7	98	760.652	2.535	34.1	137	406.000	0.600	2.8				
21	2171.630	7.237	1.5	60	1119.802	3.702	0.0	99	758.713	2.528	15.3								
22	2159.383	7.220	3.0	61	1108.222	3.692	0.8	100	757.223	2.523	15.3								
23	2187.306	7.223	2.1	62	1105.346	3.684	1.1	101	756.484	2.518	19.1								
24	2186.219	7.216	3.2	63	1088.830	3.665	28.7	102	750.812	2.502	18.9								
25	2162.383	7.208	1.7	64	1097.742	3.666	401.0	103	747.379	2.493	10.9								
26	2161.044	7.202	2.4	65	1085.517	3.638	44.0	104	742.810	2.476	11.7								
27	2152.059	7.172	11.3	66	1081.149	3.600	3.0	105	739.382	2.464	2.2								
28	2148.714	7.164	88.4	67	1078.211	3.583	4.8	106	735.158	2.458	31.5								
29	2147.778	7.156	23.6	68	1065.986	3.552	1.6	107	731.580	2.438	3.5								
30	2143.154	7.142	13.7	69	1058.532	3.528	0.9	108	728.538	2.423	0.8								
31	2141.215	7.136	54.8	70	1042.547	3.410	0.7	109	723.528	2.411	0.8								
32	2136.681	7.127	6.9	71	980.737	3.268	0.7	110	590.541	1.863	4.3								
33	2130.039	7.088	2.4	72	969.378	3.202	34.6	111	585.320	1.853	5.9								
34	2121.605	7.071	1.7	73	941.943	3.137	0.7	112	577.571	1.835	10.1								
35	2001.518	6.670	2.4	74	936.931	2.786	1.2	113	572.949	1.808	11.6								
36	1720.188	5.793	1.4	75	833.855	2.728	1.8	114	564.600	1.831	5.7								
37	1398.814	4.655	0.6	76	831.922	2.789	1.3	115	559.878	1.856	8.0								
38	1376.475	4.594	13.3	77	823.034	2.753	2.1	116	554.760	1.841	6.4								
39	1347.468	4.481	1.0	78	820.237	2.734	2.3	117	550.130	1.835	4.3								

¹³C NMR

INDEX	FREQUENCY	PPM	HEIGHT
1	13131.391	174.637	20.5
2	13066.217	173.483	10.5
3	12971.639	171.918	22.6
4	12955.464	171.704	16.4
5	11370.235	100.695	63.7
6	10968.557	105.388	32.2
7	10770.215	142.078	53.6
8	5825.215	136.231	40.0
9	3014.458	130.075	114.4
10	5870.647	128.243	119.2
11	5585.194	75.431	62.3
12	5082.280	67.833	38.4
13	5052.003	66.356	6.7
14	4042.594	53.573	32.9
15	3801.313	51.706	22.3
16	3043.562	40.538	12.4
17	3822.437	40.058	37.6
18	3001.433	39.778	74.5
19	2980.363	39.506	68.3
20	2968.123	39.338	32.3
21	2952.305	39.221	80.4
22	2845.683	34.039	9.1
23	2838.791	36.948	33.3
24	2817.667	35.689	12.1
25	2818.030	38.040	73.7
26	2720.660	38.141	40.6
27	2613.242	23.337	39.3
28	1920.323	25.982	144.0

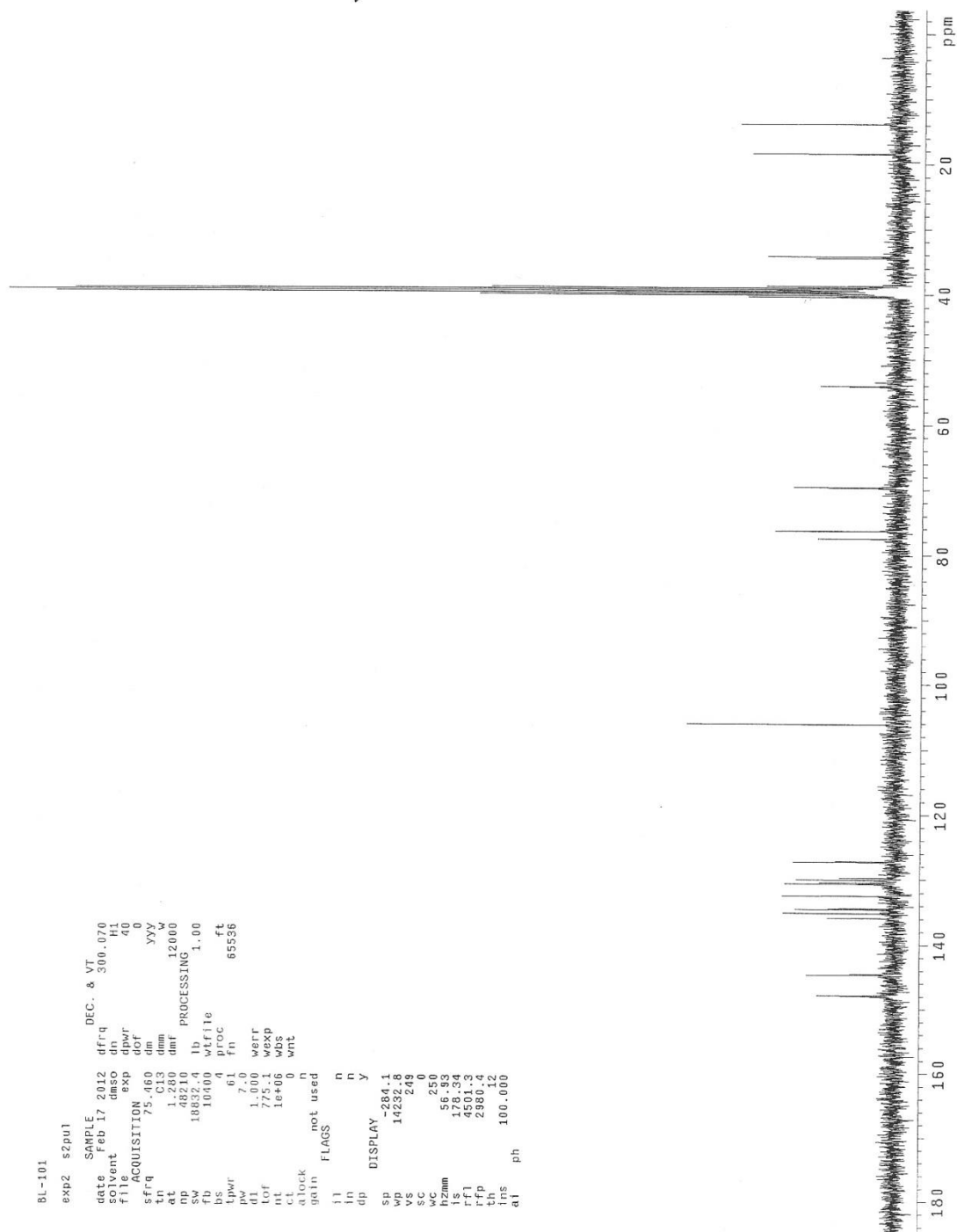
Propiconazole nitrate

^1H NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	3559.324	11.862	12.9	40	1177.928	3.926	38.5				
2	2742.351	9.139	117.1	41	1175.374	3.917	50.8				
3	2733.838	9.111	75.2	42	1171.402	3.904	50.2				
4	2522.146	8.405	130.2	43	1165.155	3.883	17.2				
5	2505.403	8.349	82.6	44	1013.017	3.386	18.0				
6	2502.566	8.340	5.7	45	1010.788	3.369	30.6				
7	2302.752	7.674	80.0	46	1003.126	3.343	16.9				
8	2300.805	7.668	86.8	47	982.343	3.307	11.9				
9	2299.387	7.663	56.4	48	987.803	3.292	6.2				
10	2297.400	7.656	53.6	49	982.127	3.273	48.8				
11	2277.820	7.591	4.9	50	976.168	3.253	6.2				
12	2266.753	7.554	53.1	51	972.195	3.240	9.1				
13	2263.348	7.543	5.3	52	761.922	2.539	10.5				
14	2258.240	7.526	102.1	53	760.219	2.533	23.9				
15	2251.997	7.505	34.5	54	758.517	2.528	32.7				
16	2245.889	7.488	5.1	55	756.530	2.521	25.3				
17	2243.884	7.477	67.7	56	754.828	2.516	11.7				
18	2240.830	7.466	85.3	57	413.896	1.388	7.5				
19	2238.660	7.460	61.4	58	416.858	1.389	9.6				
20	2232.417	7.440	37.3	59	408.345	1.361	18.7				
21	2230.147	7.432	38.4	60	402.669	1.342	35.6				
22	2229.295	7.429	47.8	61	396.426	1.321	43.8				
23	2227.309	7.423	38.7	62	389.616	1.288	60.2				
24	2220.782	7.401	22.4	63	383.089	1.277	42.8				
25	2218.796	7.394	21.9	64	378.116	1.263	28.0				
26	1474.184	4.913	19.1	65	375.995	1.253	20.9				
27	1469.360	4.897	4.7	66	369.468	1.231	16.2				
28	1459.712	4.865	79.4	67	364.644	1.215	13.0				
29	1454.320	4.847	81.6	68	361.523	1.205	10.7				
30	1449.456	4.831	100.8	69	358.117	1.193	8.8				
31	1439.848	4.798	20.0	70	354.428	1.181	5.5				
32	1435.824	4.782	5.4	71	353.293	1.177	5.5				
33	1246.033	4.152	14.6	72	276.106	0.920	6.5				
34	1240.358	4.134	20.3	73	263.906	0.879	43.9				
35	1238.088	4.126	18.6	74	256.812	0.856	107.3				
36	1232.128	4.106	19.4	75	248.866	0.829	69.1				
37	1193.252	3.977	8.2	76	243.758	0.812	16.3				
38	1190.982	3.969	10.3	77	241.772	0.806	19.5				
39	1184.455	3.947	17.3	78	-0.000	-0.000	6.8				

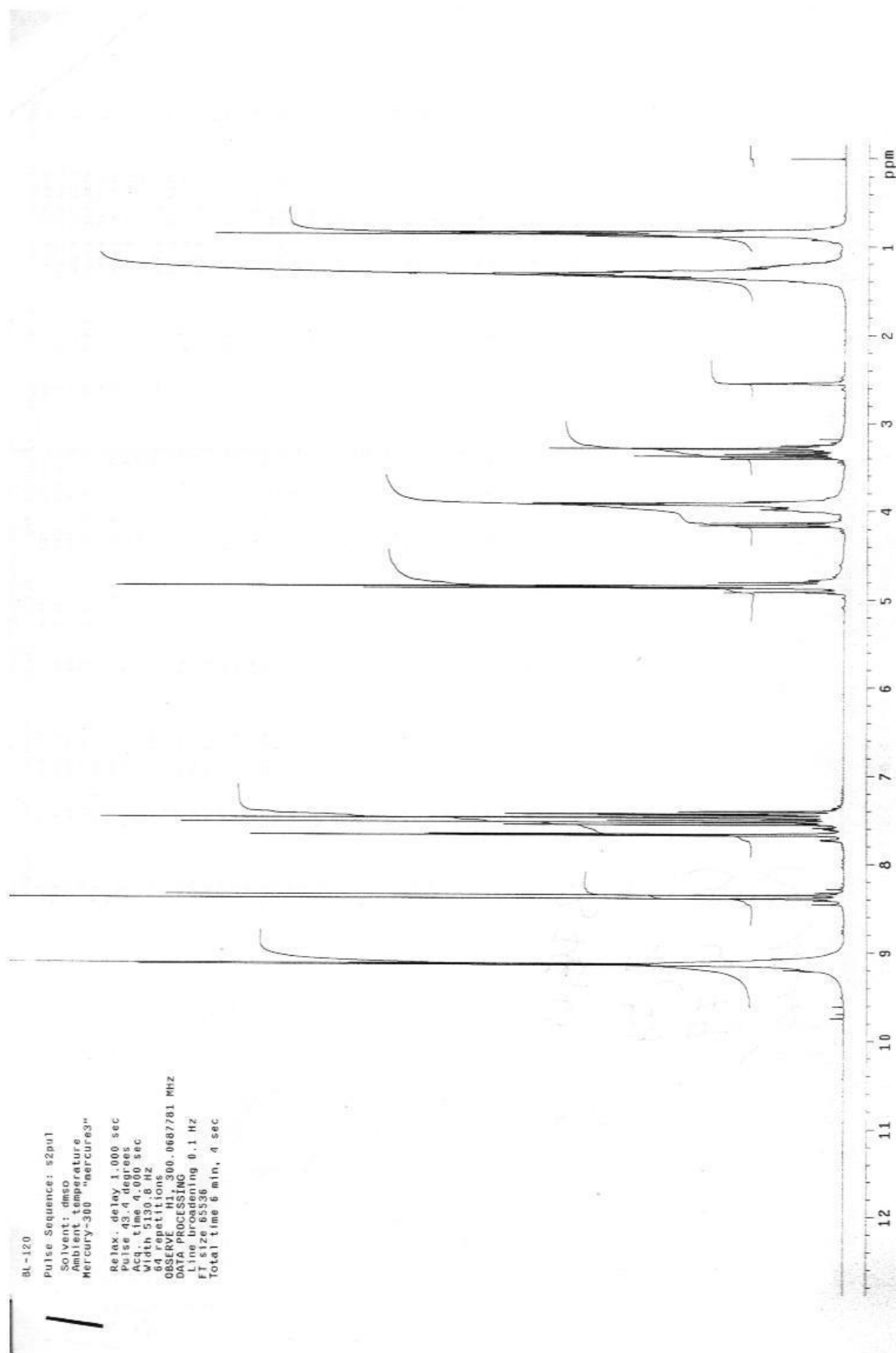
¹³C NMR



INDEX	FREQUENCY	PPM	HEIGHT
1	11150.824	147.786	15.5
2	10914.032	144.648	17.7
3	10251.936	135.873	13.5
4	10197.911	135.157	22.4
5	10153.656	134.570	20.0
6	10141.012	134.403	13.3
7	9999.052	132.521	22.6
8	9993.304	132.445	14.6
9	9857.667	130.648	22.1
10	9842.149	130.442	15.2
11	9811.688	130.038	19.8
12	9608.231	127.342	20.5
13	9597.911	127.197	12.0
14	8006.440	106.112	41.9
15	5848.305	72.510	15.9
16	5758.071	76.314	24.5
17	5256.901	68.672	13.8
18	5248.280	68.558	20.9
19	4076.967	54.034	15.7
20	3043.590	40.338	30.1
21	3022.325	40.056	84.2
22	3001.635	39.782	169.1
23	2980.369	39.500	195.4
24	2959.679	39.226	165.3
25	2938.413	38.944	81.8
26	2917.723	38.670	26.5
27	2598.169	34.435	16.8
28	2579.203	34.183	26.3
29	1385.246	18.492	18.4
30	1386.625	18.377	29.5
31	1042.932	13.822	31.9
32	1040.633	13.782	19.4

Propiconazole hydrochloride

^1H NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2754.517	5.213	8.5	40	2221.888	7.402	95.4	73	765.660	2.552	7.8
2	2754.435	5.159	13.0	41	2218.978	7.395	94.8	80	769.981	2.548	18.8
3	2748.787	8.167	131.1	42	1478.950	4.993	3.7	81	762.286	2.540	27.3
4	2740.716	8.184	203.1	43	1179.783	4.911	26.0	82	766.379	2.534	29.3
5	2725.214	9.082	11.3	44	1466.736	4.866	3.8	83	768.657	2.528	4.6
6	2721.142	9.086	15.3	45	1453.220	4.863	102.3	84	427.635	2.425	4.0
7	2705.797	9.017	3.5	46	1454.093	4.846	123.3	85	421.215	1.404	3.3
8	2697.824	8.457	6.3	47	1452.174	4.839	135.8	86	418.063	1.393	12.3
9	2695.254	8.410	6.5	48	1450.647	4.789	27.1	87	491.841	1.366	23.3
10	2517.894	8.281	204.0	49	1434.636	4.781	7.2	88	403.384	1.346	47.3
11	2509.524	8.360	145.0	50	1452.591	4.774	7.3	89	343.197	1.327	52.7
12	2438.321	8.360	6.2	51	1252.371	4.174	21.6	90	383.686	1.312	65.5
13	2468.951	8.265	3.3	52	1246.420	4.154	31.4	91	321.484	1.305	75.6
14	2522.319	7.739	3.3	53	1244.228	4.146	26.8	92	346.610	1.293	49.7
15	2520.127	7.732	4.3	54	1238.278	4.127	20.2	93	385.357	1.284	51.1
16	2519.031	7.728	5.0	55	1206.604	4.022	3.6	94	380.816	1.268	40.1
17	2518.838	7.721	5.1	56	1204.655	4.014	4.3	95	377.528	1.259	25.8
18	2502.439	7.678	115.3	57	1201.620	4.004	9.5	96	371.108	1.237	21.2
19	2500.317	7.666	126.3	58	1193.988	3.957	10.4	97	366.097	1.220	18.5
20	2286.398	7.662	83.7	59	1184.121	3.878	18.1	98	362.965	1.210	16.0
21	2287.108	7.655	83.7	60	1182.171	3.860	18.3	99	358.820	1.198	12.5
22	2283.585	7.618	5.1	61	1184.256	3.847	16.0	100	354.823	1.182	1.3
23	2283.816	7.608	4.1	62	1182.534	3.841	17.7	101	352.944	1.176	6.9
24	2280.824	7.601	4.5	63	1178.593	3.821	60.8	102	347.778	1.158	4.4
25	2279.571	7.587	3.7	64	1172.869	3.808	66.8	103	344.672	0.948	3.2
26	2277.056	7.583	0.7	65	1166.582	3.802	21.5	104	277.489	0.925	7.4
27	2270.020	7.568	3.5	66	1158.839	3.802	4.4	105	275.364	0.913	7.2
28	2265.635	7.568	72.6	67	1157.167	3.855	4.4	106	264.343	0.863	55.8
29	2261.407	7.536	9.0	68	1153.085	3.843	4.0	107	257.346	0.859	134.8
30	2257.023	7.522	141.7	69	1026.154	3.400	26.8	108	251.320	0.838	72.2
31	2250.448	7.500	50.6	70	1012.169	3.373	45.2	109	243.441	0.831	85.3
32	2247.315	7.488	6.2	71	1004.338	3.347	25.3	110	244.439	0.815	26.4
33	2246.052	7.438	5.6	72	986.353	3.320	16.1	111	242.236	0.847	91.9
34	2241.821	7.470	159.1	73	981.658	3.305	7.5	112	238.480	0.785	7.8
35	2238.323	7.463	86.6	74	966.332	3.287	82.2	113	228.667	0.746	3.4
36	2232.808	7.441	52.6	75	950.638	3.266	8.8	114	0.000	0.000	11.9
37	2229.717	7.434	54.7	76	976.067	3.254	13.8				
38	2229.484	7.430	72.4	77	966.753	3.252	3.1				
39	2227.428	7.423	65.9	78	954.386	3.181	5.6				

BL 120

Pulse Sequence: s2pul

Solvent: dmsc

Ambient temperature

Mercury-800 "mercur83"

Relax. delay 1.000 sec

Pulse 45.0 degree

Acq time 0.400 sec

Width 17299.3 Hz

1152 resolutions

OBSERVE G18, 75.4529862 MHz

DECOUPLE H1, 300.0712830 MHz

Power 40 dB

Continuously on

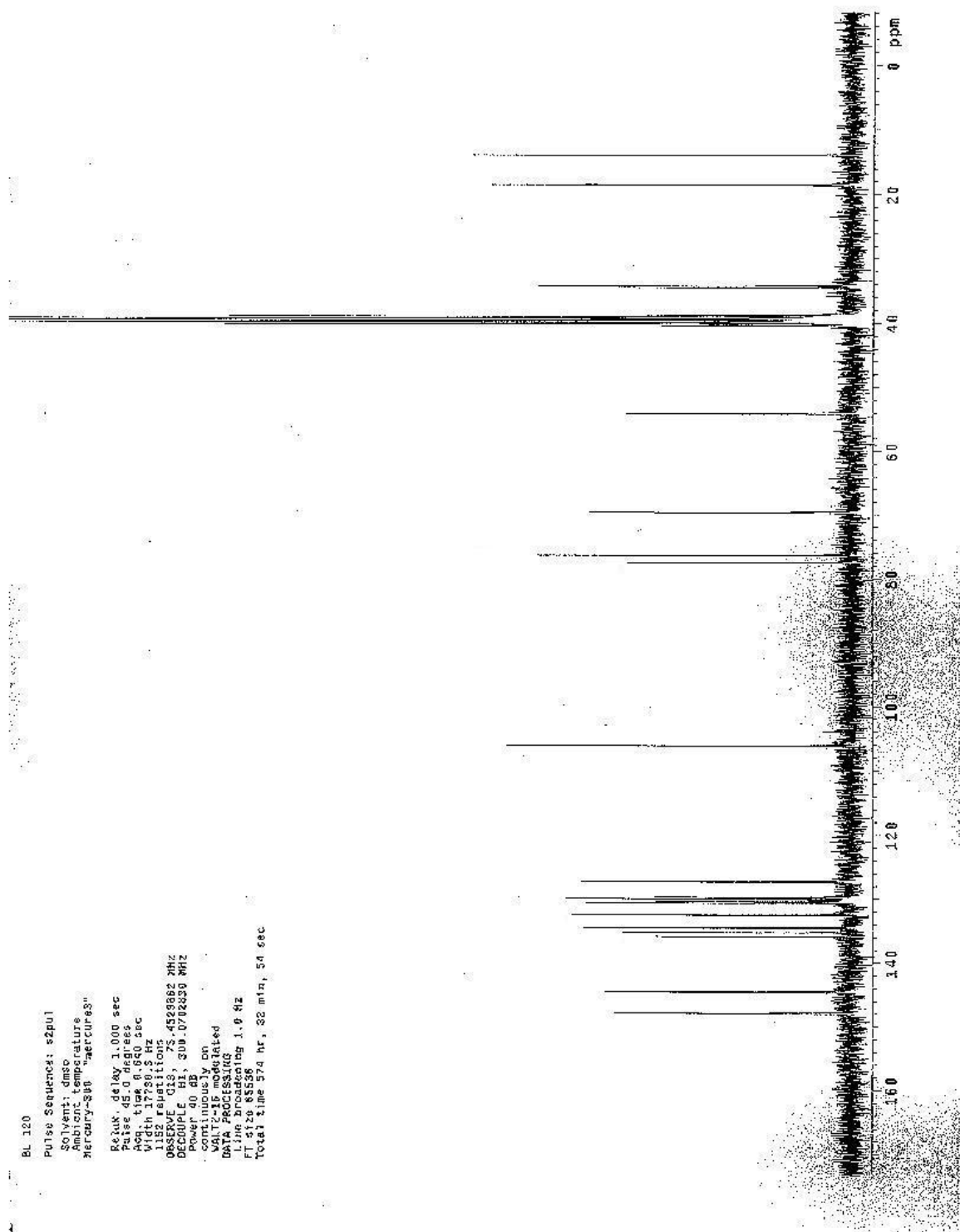
Variable pulse

DATA PROCESSING

Line broadening 1.0 Hz

FT size 85536

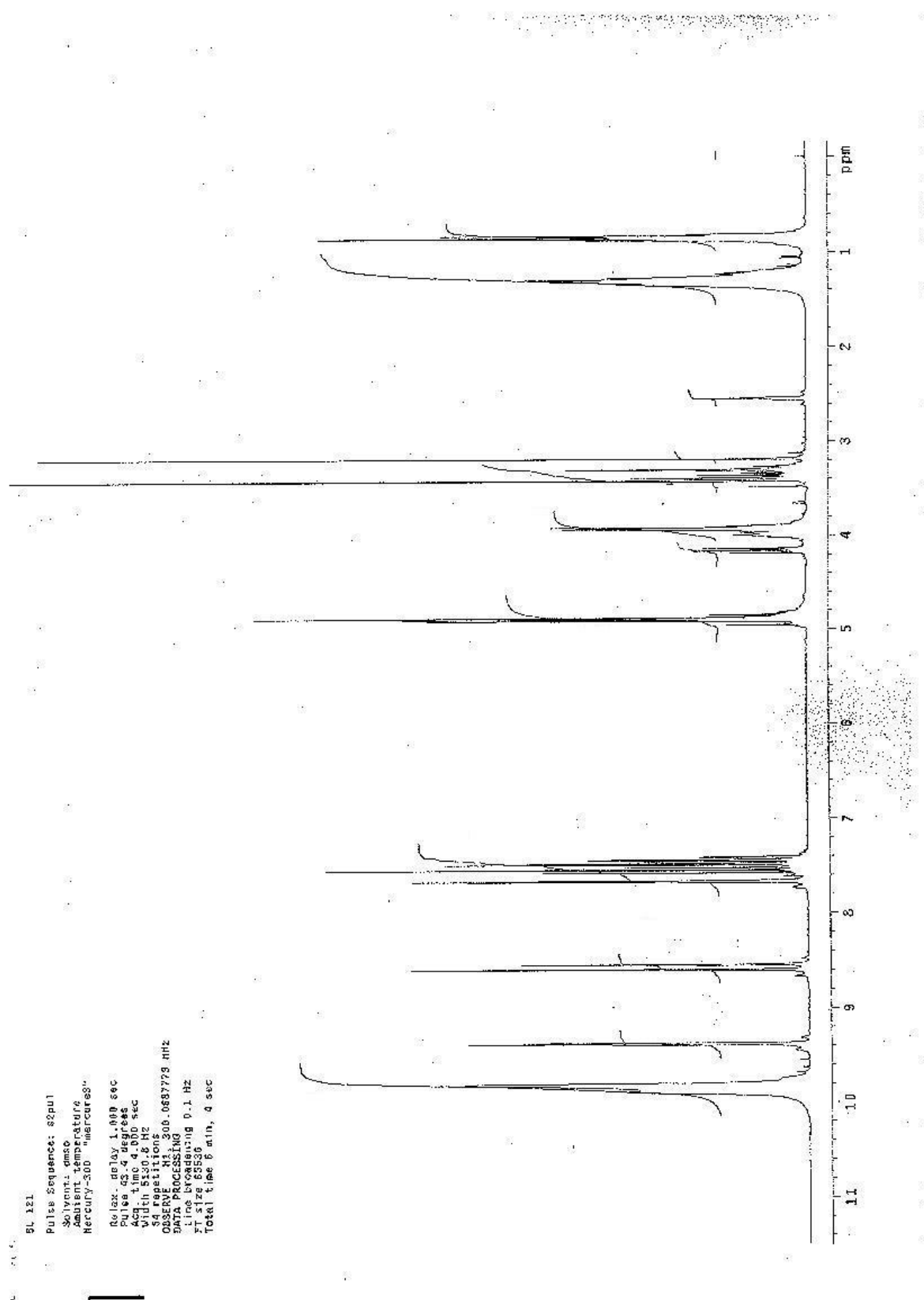
Total time 574 hr, 32 min, 54 sec



INDEX	FREQUENCY	PKF	HEIGHT
1	11184.533	147.868	58.6
2	11184.763	147.803	50.2
3	10889.330	134.934	54.4
4	10897.325	134.427	37.1
5	10253.408	135.392	40.0
6	10290.313	135.197	50.6
7	10151.678	134.544	55.8
8	10138.891	134.372	44.3
9	9998.085	132.522	58.6
10	9993.133	132.449	45.9
11	9856.233	130.629	55.8
12	9840.541	130.421	41.3
13	9810.780	130.026	60.8
14	9789.953	129.725	40.7
15	9697.923	127.330	57.9
16	9586.501	127.186	44.9
17	9397.597	106.131	64.2
18	8996.645	106.492	63.2
19	8845.538	77.473	46.9
20	8759.419	76.318	66.9
21	8237.393	63.878	41.1
22	8248.895	63.563	55.2
23	4092.607	54.103	36.7
24	4074.490	54.001	47.4
25	3045.302	40.381	41.1
26	3024.199	40.081	133.0
27	2903.998	32.801	262.5
28	2881.999	39.522	503.6
29	2859.889	39.242	259.1
30	2849.327	36.969	128.9
31	2818.124	36.890	42.6
32	2596.568	34.494	46.8
33	2578.448	34.166	67.9
34	1396.094	18.502	64.2
35	1388.429	19.491	75.2
36	1044.234	13.840	60.2
37	1042.113	13.812	58.2

Propiconazole hydrogensulfate

^1H NMR



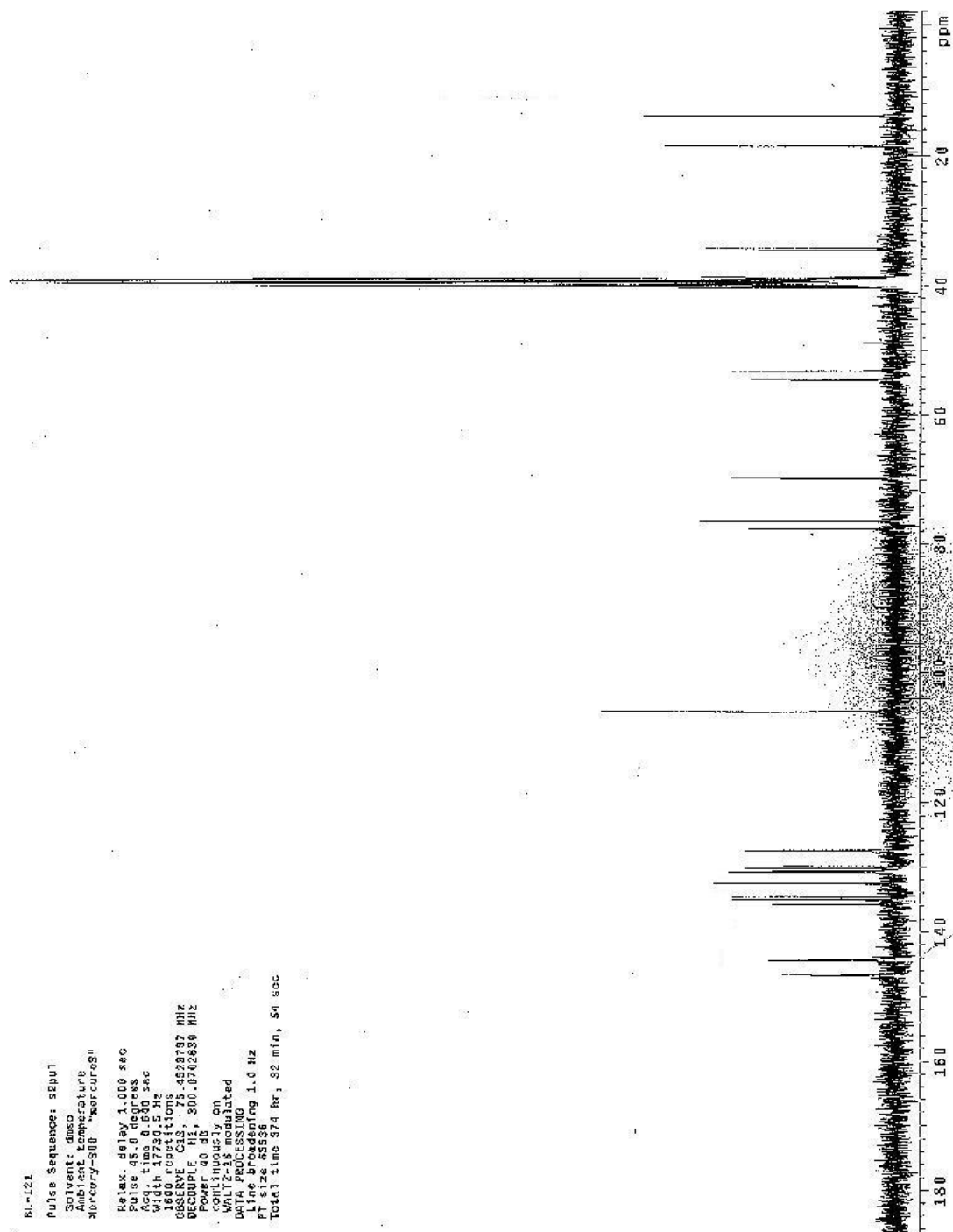
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1	2268.174	9.595	90.9	40	1463.021	4.942	5.1	79	784.520	2.548	13.0
2	2268.156	9.816	77.2	41	1472.373	4.507	84.5	80	763.185	2.543	23.5
3	2268.137	9.747	6.5	42	1467.832	4.892	10.1	81	761.319	2.537	15.3
4	2268.118	9.661	9.1	43	1463.135	4.675	123.4	82	759.596	2.521	5.4
5	2268.099	9.493	2.3	44	1453.270	4.643	21.6	83	421.958	1.463	8.4
6	2268.080	9.441	3.1	45	1448.572	4.627	6.7	84	417.770	1.492	10.1
7	2268.061	9.399	76.2	46	1443.862	4.611	5.9	85	412.930	1.523	17.9
8	2268.042	9.375	57.8	47	1435.033	4.582	17.1	86	404.137	1.547	42.4
9	2268.023	9.351	3.1	48	1426.062	4.563	25.3	87	398.516	1.521	57.3
10	2268.004	9.326	88.9	49	1416.850	4.555	23.8	88	390.511	1.500	82.7
11	2267.985	9.301	64.3	50	1406.940	4.538	23.2	89	383.478	1.264	43.4
12	2267.966	9.276	2.7	51	1400.873	4.535	2.8	90	373.407	1.264	34.1
13	2267.947	9.251	3.5	52	1395.238	4.517	8.4	91	365.759	1.228	19.3
14	2267.928	9.226	8.2	53	1390.359	4.510	8.7	92	358.157	1.217	16.1
15	2267.909	9.201	78.2	54	1385.192	4.503	18.3	93	351.712	1.205	13.5
16	2267.890	9.176	88.4	55	1380.322	4.496	16.3	94	345.581	1.195	11.2
17	2267.871	9.151	69.3	56	1375.775	4.489	17.8	95	339.367	1.154	6.4
18	2267.852	9.126	8.2	57	1371.404	4.482	2.8	96	340.260	1.124	4.3
19	2267.833	9.101	5.7	58	1367.821	4.475	17.8	97	338.925	1.098	5.8
20	2267.814	9.076	4.0	59	1364.133	4.468	17.8	98	331.319	1.030	5.8
21	2267.795	9.051	3.4	60	1360.352	4.461	10.1	99	324.473	0.881	7.6
22	2267.776	9.026	5.7	61	1356.571	4.454	10.1	100	264.427	0.858	10.1
23	2267.757	9.001	5.7	62	1352.790	4.447	10.1	101	250.950	0.830	81.5
24	2267.738	8.976	107.9	63	1349.009	4.440	23.2	102	249.427	0.830	81.5
25	2267.719	8.951	41.0	64	1345.228	4.433	24.3	103	241.743	0.816	28.1
26	2267.700	8.926	6.5	65	1341.447	4.426	14.5	104	241.925	0.806	26.3
27	2267.681	8.901	81.2	66	1337.666	4.419	11.7	105	239.711	0.786	2.8
28	2267.662	8.876	65.4	67	1333.885	4.412	6.6	106	0.000	0.000	2.5
29	2267.643	8.851	58.9	68	1330.104	4.405	2.7				
30	2267.624	8.826	36.5	69	1326.323	4.398	171.5				
31	2267.605	8.801	32.7	70	1322.542	4.391	7.5				
32	2267.586	8.776	49.2	71	1318.761	4.384	5.9				
33	2267.567	8.751	44.1	72	1314.980	4.377	7.5				
34	2267.548	8.726	24.4	73	1311.199	4.370	2.6				
35	2267.529	8.701	2.6	74	1307.418	4.363	17.3				
36	2267.510	8.676	17.3	75	1303.637	4.356					
37	2267.491	8.651		76	1300.000	4.349					
38	2267.472	8.626		77	1296.219	4.342					
39	2267.453	8.601		78	1292.438	4.335					

¹³C NMR

BL-121

Pulse Sequence: zgpg30
Solvent: dmsc
Ambient temperature
MERCURY-S10 "mercuryS"

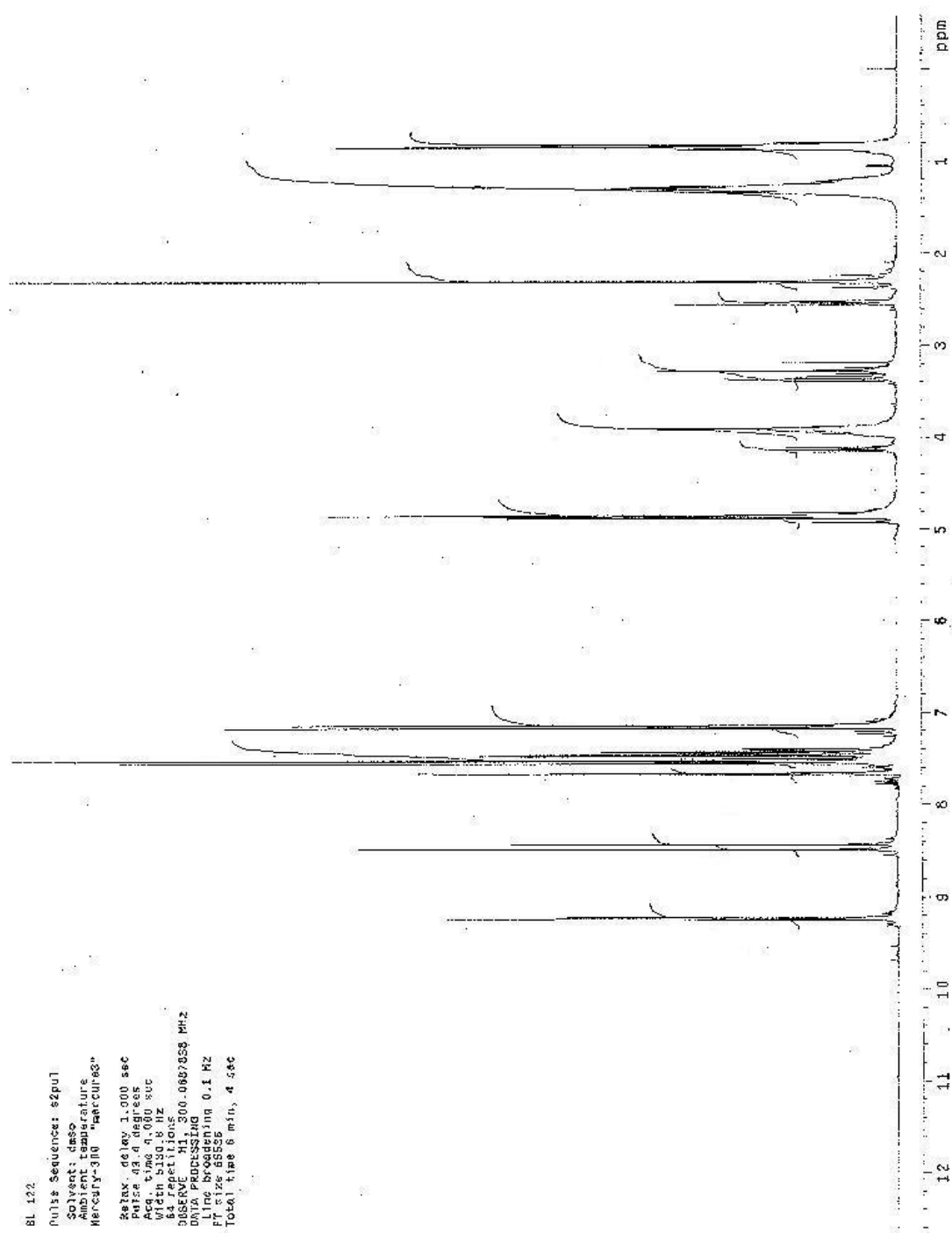
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 0.000 sec
Width 1739.0 Hz
1800 repetitions
OBSERVE C13, 75.4528797 MHz
DECOUPLE H1, 300.8702630 MHz
Power 40 dB
Continuously on
Waltz16 decoupled
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536
Total time 574 hr, 32 min, 54 sec



INDEX	FREQUENCY	PPM	HEIGHT
1	11068.856	148.700	17.8
2	11069.740	148.502	26.7
3	10865.160	144.386	28.6
4	10862.256	144.240	19.4
5	10926.818	135.606	26.8
6	10181.720	135.475	36.0
7	10166.288	134.738	36.3
8	10182.760	134.359	26.7
9	10005.087	132.601	28.8
10	10000.167	132.526	28.8
11	9864.810	130.743	38.1
12	9850.220	130.550	26.4
13	9823.225	130.181	33.6
14	9798.334	129.861	26.2
15	9618.227	127.487	35.1
16	8603.946	127.351	24.0
17	8601.313	106.045	63.6
18	5860.147	77.867	32.5
19	5767.618	76.401	42.2
20	5285.059	69.785	25.1
21	5255.768	68.850	35.5
22	4114.582	54.532	23.5
23	4103.710	54.366	31.2
24	4085.769	53.090	36.3
25	3048.183	40.532	47.1
26	3022.084	40.052	137.9
27	3001.472	39.780	276.5
28	2989.583	39.500	325.2
29	2959.266	39.220	275.4
30	2938.163	38.341	138.0
31	2917.051	38.681	43.1
32	2607.004	34.552	29.6
33	2583.737	34.243	40.9
34	1398.792	13.552	90.6
35	1391.875	13.444	50.8
36	1003.153	13.905	55.2

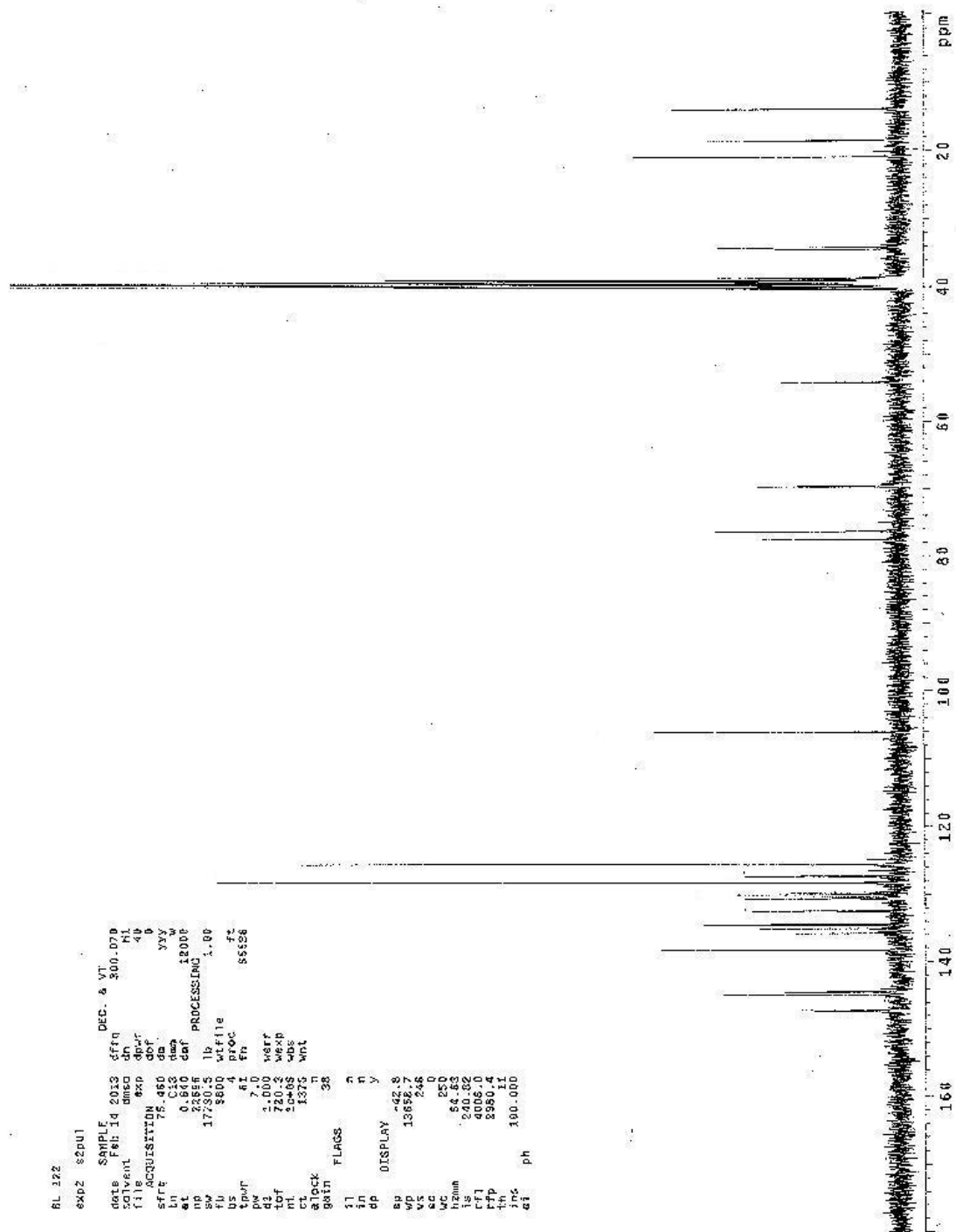
Propiconazole 4-methylbenzenesulfate

^1H NMR



[illegible]

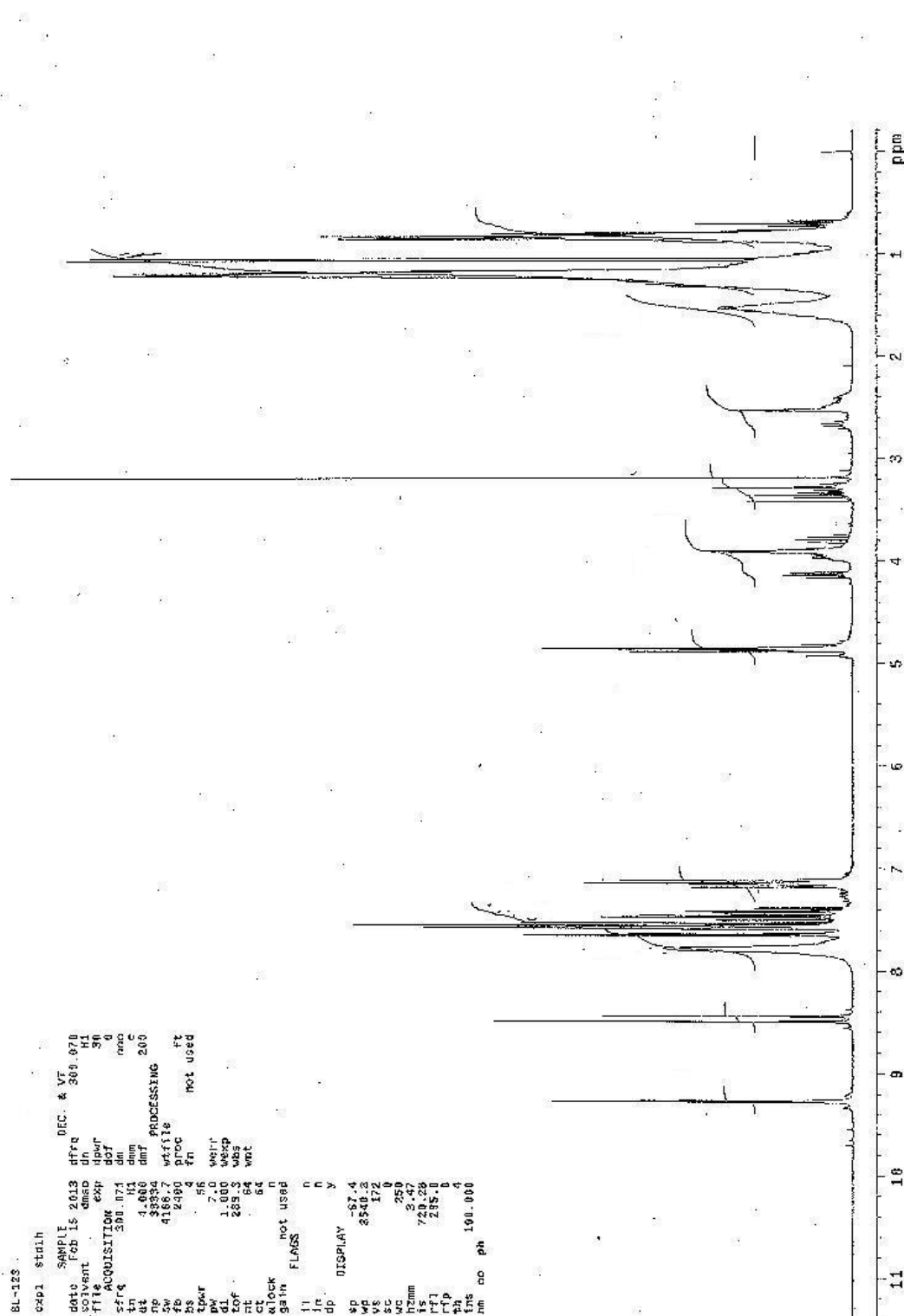
¹³C NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	11119.037	147.352	17.3	40	1053.037	13.737	45.8
2	11107.225	147.288	22.1	41	1039.414	13.778	34.4
3	10930.353	144.864	35.7				
4	10862.185	144.431	23.5				
5	10881.373	144.248	35.1				
6	10438.343	138.237	48.3				
7	10245.831	135.782	41.2				
8	10131.173	135.068	28.7				
9	10154.384	134.380	39.6				
10	10141.387	134.403	28.2				
11	9947.462	132.500	30.1				
12	9932.451	132.429	20.8				
13	9855.682	130.821	31.8				
14	9840.541	130.421	21.2				
15	9812.403	130.048	33.6				
16	9768.053	129.725	22.2				
17	9878.203	128.259	138.4				
18	9807.884	127.387	31.5				
19	9597.042	127.185	20.5				
20	9473.128	125.551	121.1				
21	8000.231	105.886	48.7				
22	5848.243	77.509	28.0				
23	5747.587	76.304	36.3				
24	5285.730	69.656	50.8				
25	5247.072	69.541	29.8				
26	4083.970	54.259	48.5				
27	4083.889	54.123	34.1				
28	3043.879	40.320	34.7				
29	3032.576	40.058	101.5				
30	3081.473	34.780	207.7				
31	2460.369	31.500	245.0				
32	2059.268	28.220	207.6				
33	2399.183	30.541	108.5				
34	2317.460	38.881	36.5				
35	2537.295	34.423	25.5				
36	2376.181	34.343	38.6				
37	1578.782	20.818	54.1				
38	1382.758	18.459	31.1				
39	1894.100	18.394	38.6				

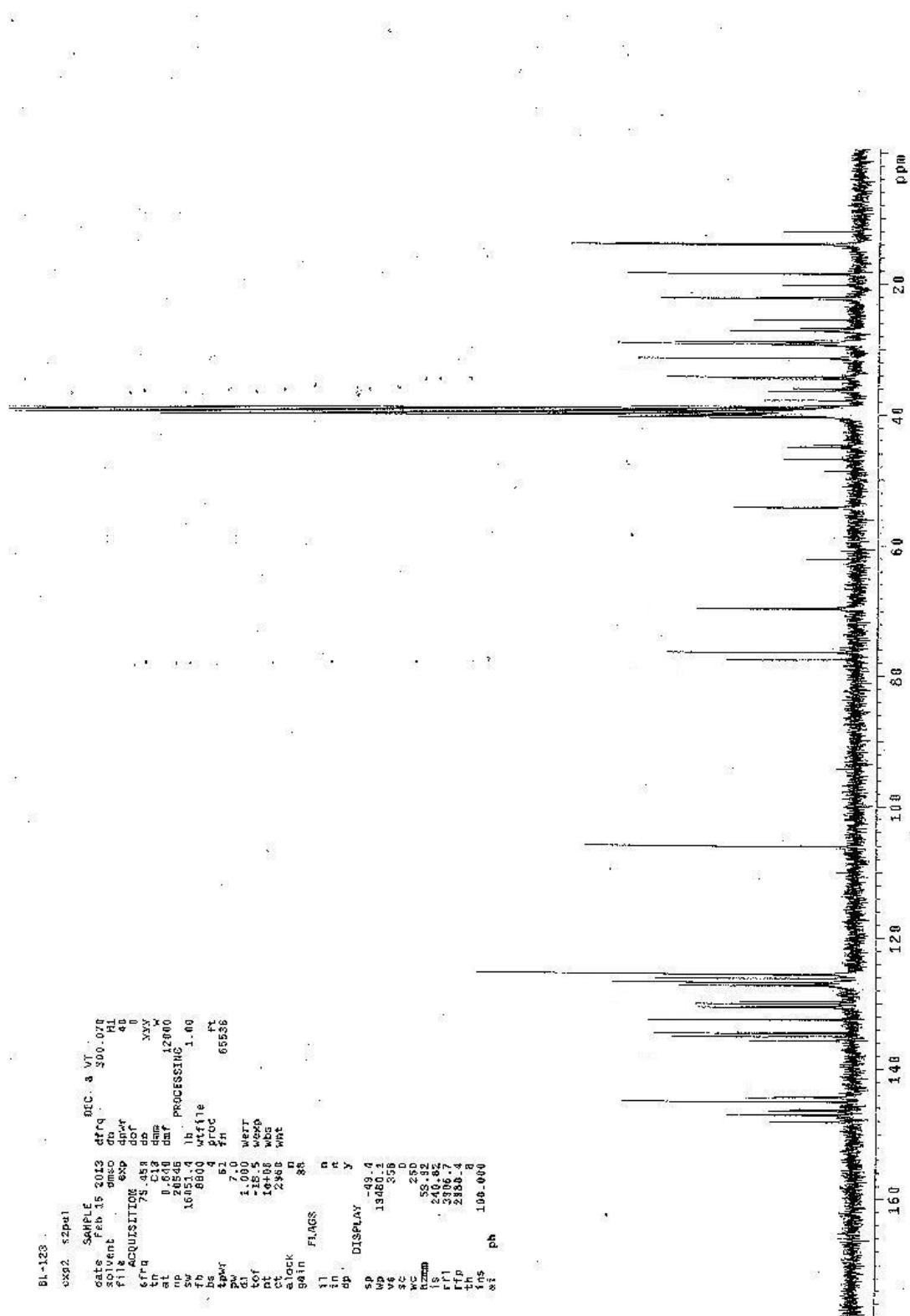
Propiconazole dodecylbenzenesulfate

¹H NMR



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2783.034	9.575	63.9	40	1459.166	4.863	47.7	78	736.955	2.458	4.5	113	297.301	0.981	32.0
2	2779.479	8.263	43.9	41	1454.334	4.817	43.2	80	437.783	1.828	7.6	119	291.197	0.970	6.8
3	2549.059	8.985	73.2	42	1444.543	4.814	10.5	81	430.285	1.001	11.9	120	280.643	0.985	4.5
4	2533.872	8.454	51.4	43	1346.935	4.153	9.6	82	425.149	1.584	16.1	121	270.852	0.963	7.6
5	2392.888	7.775	38.6	44	1241.085	4.135	16.2	83	421.384	1.571	16.0	122	260.933	0.920	37.4
6	2335.485	7.716	6.8	45	1236.787	4.128	13.0	84	416.125	1.554	22.1	123	253.812	0.846	104.8
7	2313.460	7.710	6.8	46	1232.346	4.109	12.6	85	415.386	1.523	27.4	124	243.931	0.845	104.6
8	2311.268	7.702	6.0	47	1196.329	3.987	4.4	86	412.182	1.507	26.9	125	232.841	0.842	37.2
9	2309.234	7.696	5.5	48	1194.891	3.880	4.8	87	408.354	1.484	31.1	126	231.280	0.837	76.8
10	2307.386	7.689	4.4	49	1188.780	3.862	6.1	88	404.854	1.483	18.5	127	248.234	0.831	74.9
11	2285.785	7.651	61.9	50	1186.025	3.853	7.3	89	401.837	1.439	7.0	128	240.183	0.830	106.8
12	2283.780	7.644	67.1	51	1182.719	3.841	7.3	90	428.242	1.420	5.8	129	243.838	0.832	72.6
13	2281.559	7.637	47.0	52	1176.777	3.928	8.5	91	414.852	1.389	7.0	130	242.445	0.806	60.8
14	2269.524	7.630	45.7	53	1172.874	3.908	28.5	92	414.854	1.388	7.6	131	238.934	0.786	73.6
15	2268.981	7.622	6.3	54	1168.732	3.895	31.0	93	409.457	1.365	9.1	132	235.591	0.785	54.4
16	2268.838	7.618	5.5	55	1168.732	3.895	9.5	94	406.915	1.858	13.6	133	231.559	0.772	27.4
17	2275.538	7.583	58.0	56	1162.801	3.874	4.6	95	405.288	1.851	13.1	134	229.126	0.769	23.6
18	2274.285	7.579	87.5	57	1148.282	3.807	8.1	96	401.181	1.537	20.2	135	216.554	0.732	17.3
19	2268.828	7.555	81.1	58	1136.178	3.788	11.9	97	398.646	1.829	29.0	136	203.179	0.687	32.4
20	2266.126	7.552	102.0	59	1130.075	3.768	8.1	98	392.052	1.819	36.7	137	201.904	0.673	15.3
21	2258.457	7.527	67.5	60	1025.595	3.417	6.8	99	389.492	1.283	38.1	138	0.000	0.000	6.5
22	2254.838	7.514	8.4	61	1024.789	3.415	44.7	100	387.381	1.231	42.6				
23	2250.618	7.509	28.0	62	1014.105	3.380	42.0	101	386.551	1.235	38.3				
24	2248.417	7.496	8.5	63	1006.094	3.353	20.0	102	379.955	1.206	45.9				
25	2242.083	7.472	51.2	64	998.537	3.327	11.2	103	376.595	1.254	44.3				
26	2237.593	7.456	46.3	65	993.505	3.311	6.0	104	372.071	1.240	37.8				
27	2235.226	7.443	43.5	66	983.205	3.277	28.6	105	360.754	1.202	150.6				
28	2228.683	7.428	28.7	67	974.431	3.247	5.6	106	353.505	1.175	146.4				
29	2226.834	7.421	28.1	68	973.413	3.244	6.8	107	346.512	1.155	83.9				
30	2224.291	7.413	34.2	69	954.648	3.182	171.8	108	346.721	1.122	23.7				
31	2222.123	7.405	31.2	70	884.183	2.820	8.0	109	336.490	1.101	27.4				
32	2215.771	7.384	18.9	71	797.169	2.637	6.4	110	326.421	1.089	24.9				
33	2213.786	7.377	19.1	72	760.165	2.553	8.7	111	324.817	1.067	22.3				
34	2153.335	7.176	32.8	73	756.258	2.527	17.7	112	318.918	1.062	23.1				
35	2146.070	7.149	33.4	74	756.478	2.524	25.2	113	310.564	1.058	160.2				
36	2141.881	7.138	54.0	75	754.570	2.515	28.5	114	314.585	1.048	21.6				
37	2133.782	7.111	47.6	76	752.780	2.509	12.5	115	312.515	1.032	21.3				
38	1477.366	4.823	8.3	77	746.869	2.486	6.3	116	310.700	1.038	156.4				
39	1463.489	4.677	45.5	78	742.517	2.475	4.7	117	306.364	1.026	15.7				

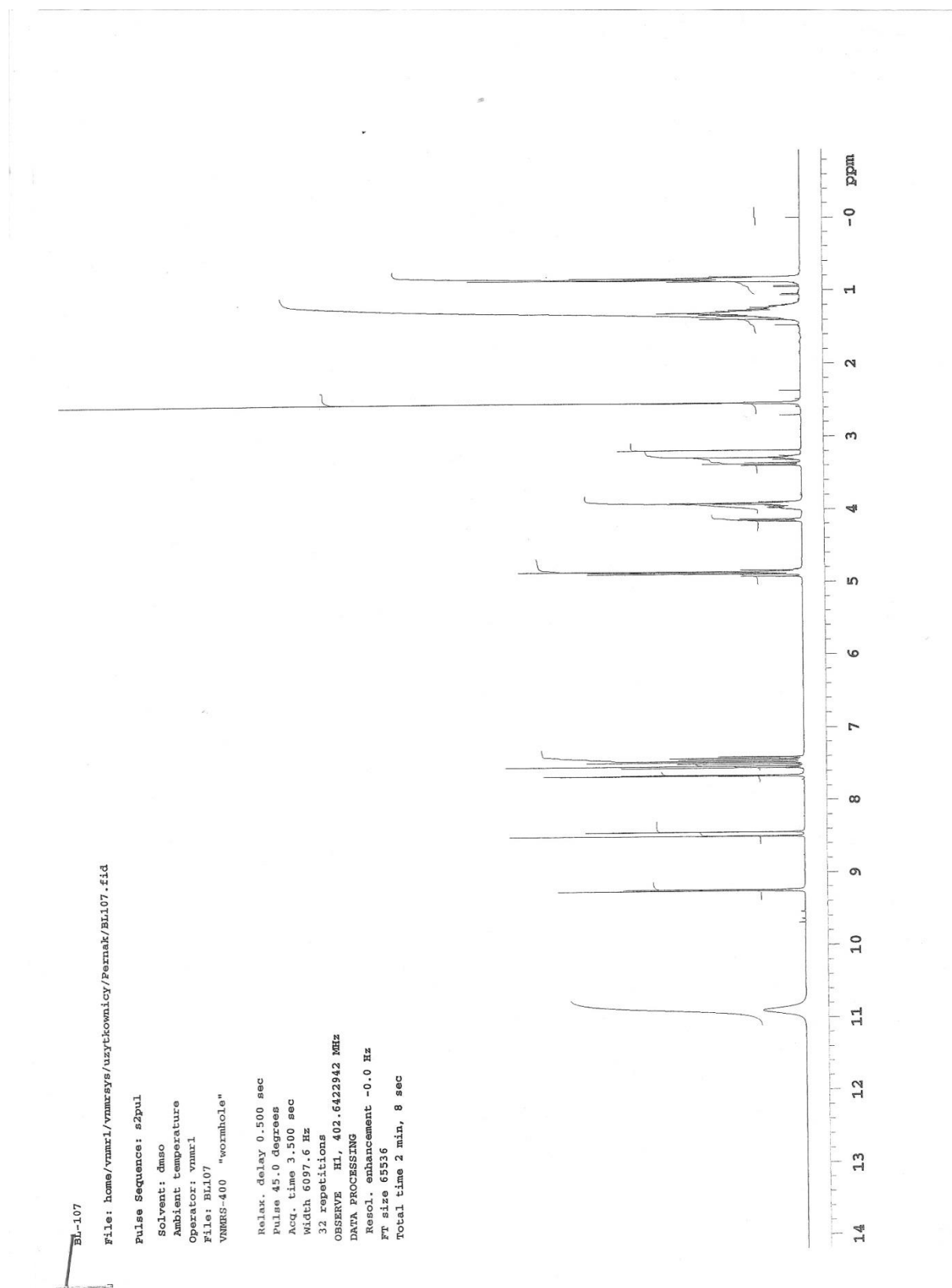
¹³C NMR



INDEX	FREQUENCY	PPN	HEIGHT	INDEX	FREQUENCY	PPN	HEIGHT
1	11181.986	148.195	17.5	40	3891.433	39.779	271.3
2	11147.208	147.203	19.8	41	2989.889	39.500	341.2
3	11096.381	147.011	26.8	42	2955.305	39.221	286.7
4	11050.621	146.581	17.9	43	2835.241	38.842	244.7
5	11057.732	146.582	12.1	44	2817.177	38.662	47.3
6	11046.097	146.519	13.3	45	2847.126	37.734	19.2
7	10948.982	145.111	48.6	46	2741.918	36.332	18.5
8	10899.398	144.462	23.1	47	2723.181	36.002	10.5
9	10833.729	144.913	16.5	48	2710.454	35.323	42.3
10	10244.553	135.773	21.8	49	2591.255	34.449	21.2
11	10138.184	135.054	38.2	50	2576.232	34.144	34.8
12	10153.403	134.594	41.8	51	2365.590	31.552	83.4
13	10141.637	134.412	24.4	52	2352.151	31.307	45.9
14	9980.157	132.509	44.0	53	2357.263	31.242	16.5
15	9988.459	132.445	25.5	54	2215.292	28.353	17.1
16	9854.627	130.807	32.6	55	2130.057	28.047	49.3
17	9859.491	130.406	23.8	56	2131.688	28.047	48.6
18	9815.473	130.062	33.1	57	2160.065	28.742	88.1
19	9787.518	128.748	23.9	58	2183.767	28.677	17.9
20	9696.286	127.316	38.7	59	2050.603	27.178	22.7
21	9594.989	127.156	25.8	60	2044.246	27.493	28.3
22	9572.355	126.674	35.2	61	2013.277	26.749	11.6
23	9587.567	126.808	50.3	62	1932.354	25.477	21.6
24	9529.540	126.179	41.7	63	1875.372	22.230	24.6
25	9478.901	125.828	63.5	64	1870.474	22.139	29.1
26	9475.472	125.582	78.5	65	1667.045	22.694	41.8
27	8000.003	106.027	56.7	66	1663.618	22.693	41.1
28	5843.011	77.510	27.0	67	1521.085	20.159	15.7
29	5757.847	76.312	81.5	68	1332.211	18.465	53.8
30	5256.766	69.670	23.0	69	1385.378	18.361	48.3
31	5247.459	69.547	38.3	70	1051.285	13.385	60.1
32	4652.648	52.051	10.3	71	1048.347	13.884	55.5
33	4055.278	54.280	16.7	72	1040.819	13.784	50.8
34	4035.382	54.158	23.9	73	904.617	11.992	15.6
35	3533.319	46.836	13.2	74			
36	3384.504	44.986	14.3				
37	3370.301	44.683	11.8				
38	3043.072	40.331	49.9				
39	5022.490	40.058	148.6				

Propiconazole methanesulfonate

^1H NMR



[illegible]

¹³C NMR

BL-107

File: home/vmr1/vmrsys/uzytkowicz/Pernak/C-BL107.fid

Pulse Sequence: s2pul

Solvent: dmsd

Ambient temperature

Operator: vmr1

File: C-BL107

VNMR-400 "wormhole"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.301 sec

Width 23584.9 Hz

1024 repetitions

OBSERVE C13, 101.2445237 MHz

DECOUPLE H1, 402.6443349 MHz

Power 39 dB

continuously on

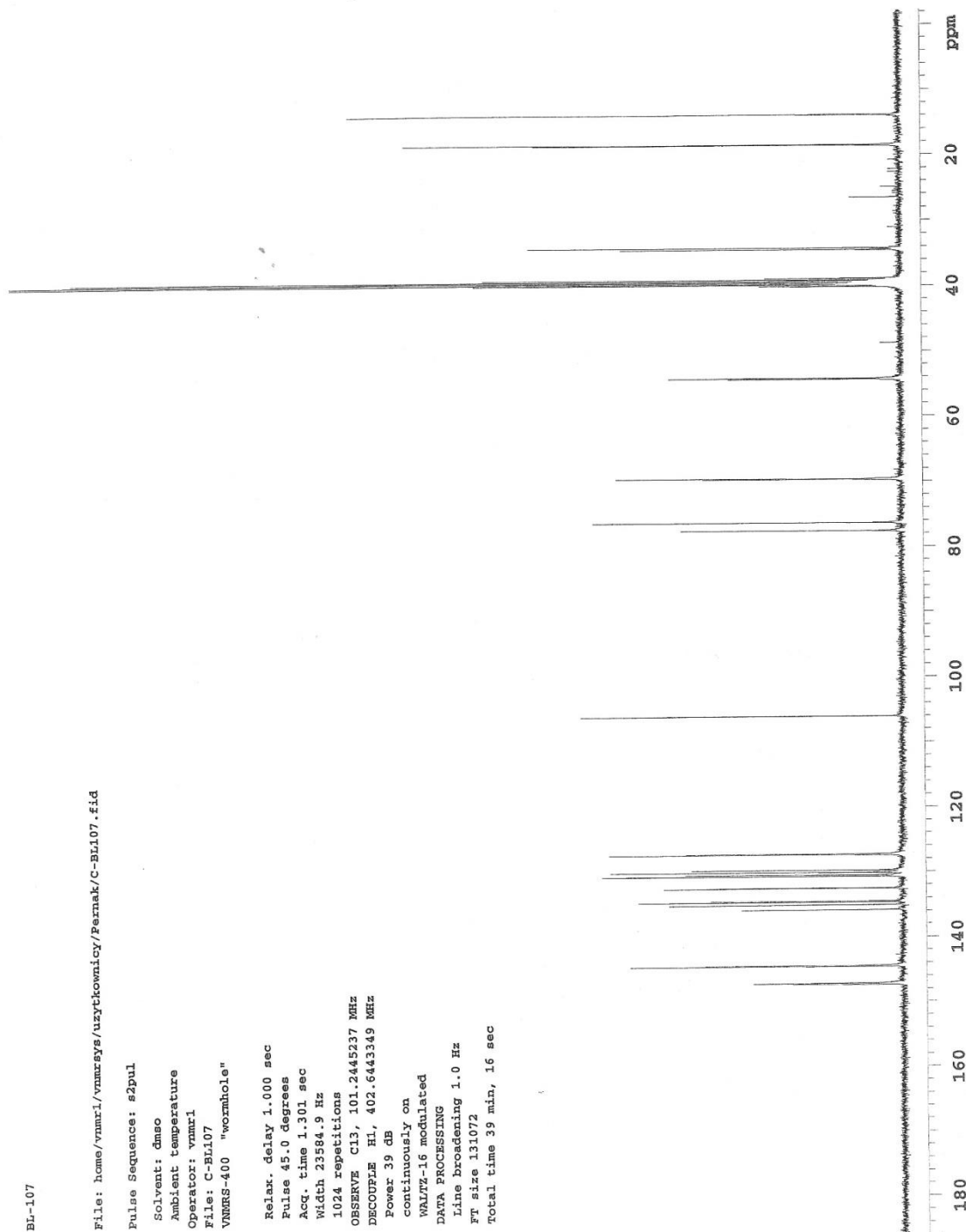
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 131072

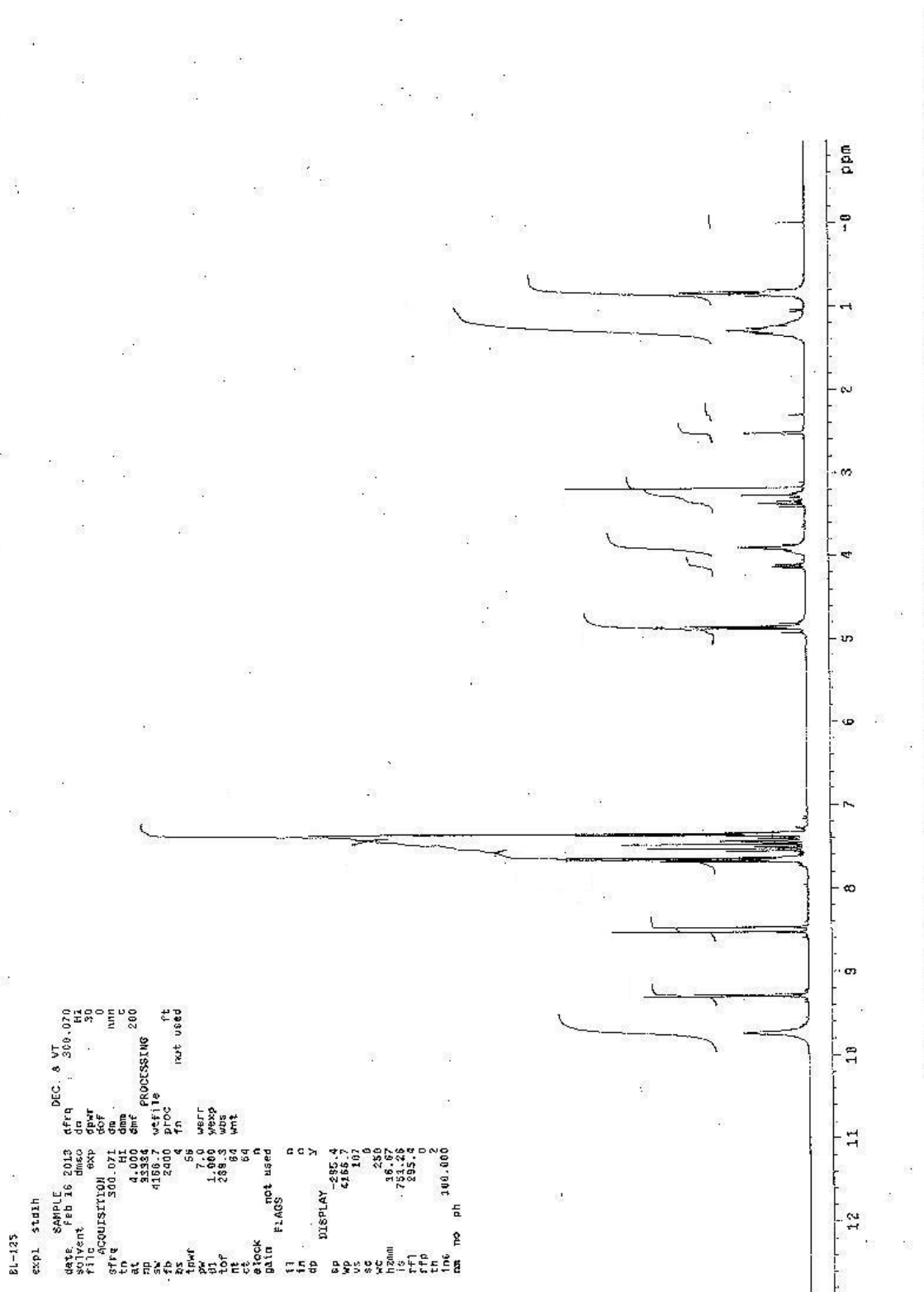
Total time 39 min, 16 sec



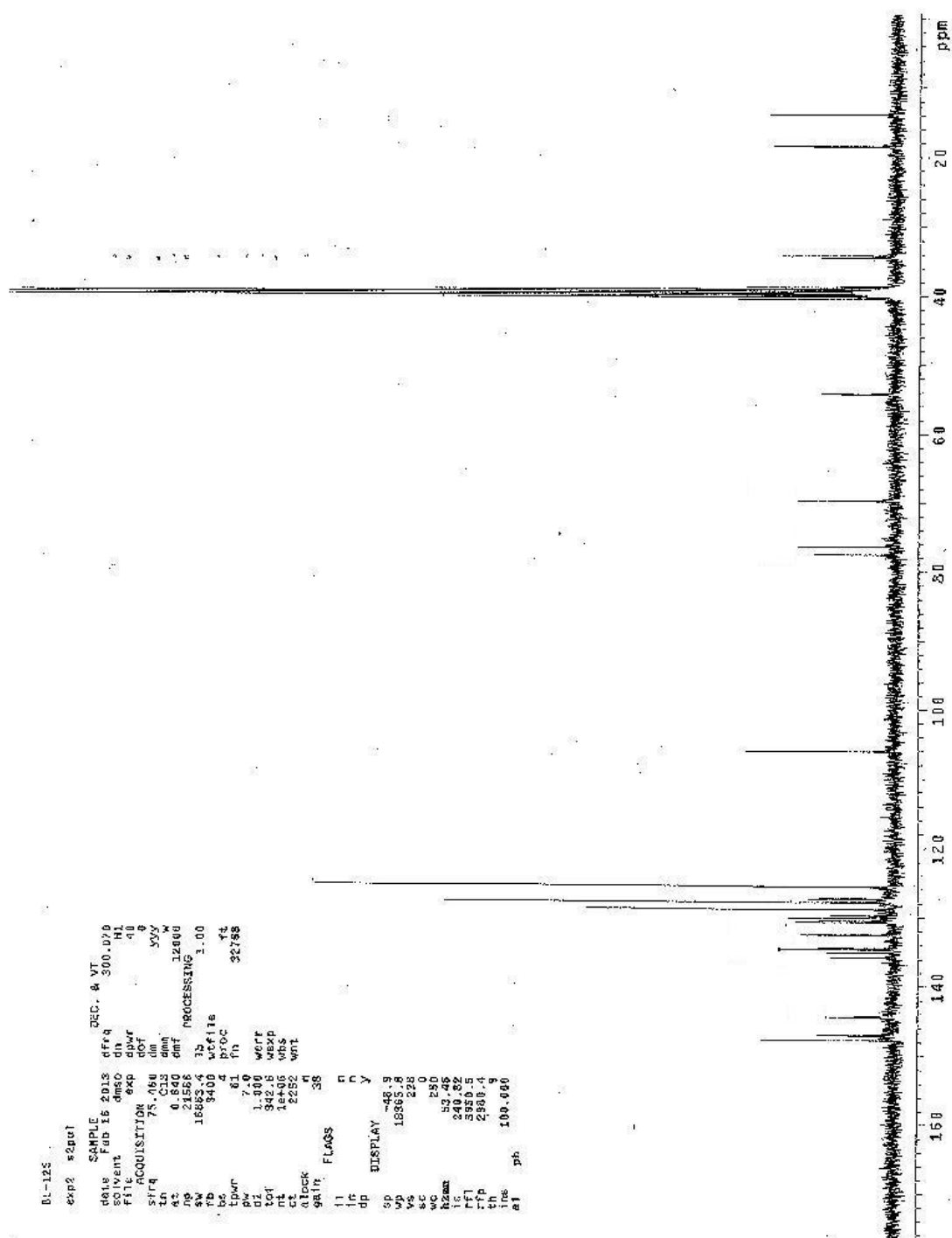
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2	14884.8	147.117	20.0
3	14633.2	144.532	55.1
4	14618.1	144.384	39.7
5	13751.8	135.828	32.3
6	13679.5	135.113	47.0
7	13633.4	134.658	53.2
8	13615.4	134.481	38.5
9	13421.5	132.565	48.1
10	13413.9	132.490	38.3
11	13323.9	130.702	60.6
12	13213.4	130.500	45.7
13	13172.8	130.109	59.0
14	13140.4	129.789	42.4
15	12900.7	127.431	59.2
16	12886.3	127.279	43.5
17	10729.7	106.076	54.8
18	10737.5	106.055	51.7
19	7854.2	77.576	44.1
20	7731.8	75.368	62.0
21	7059.3	69.724	39.4
22	7047.3	69.607	57.1
23	5459.8	54.322	34.1
24	5435.5	54.180	46.2
25	4052.1	40.122	27.7
26	4041.3	39.915	85.8
27	4024.0	39.745	242.7
28	4020.4	39.710	175.3
29	3989.2	39.500	167.7
30	3978.3	39.294	83.9
31	3957.4	39.088	26.5
32	3956.5	38.882	55.9
33	3452.5	34.495	74.7
34	3464.7	34.222	9.4
35	2676.3	26.134	73.5
36	1877.0	18.539	99.9
37	1855.8	18.439	111.2
38	1405.9	13.836	82.7
39	1403.0	13.858	

Propiconazole benzenesulfonate

¹H NMR



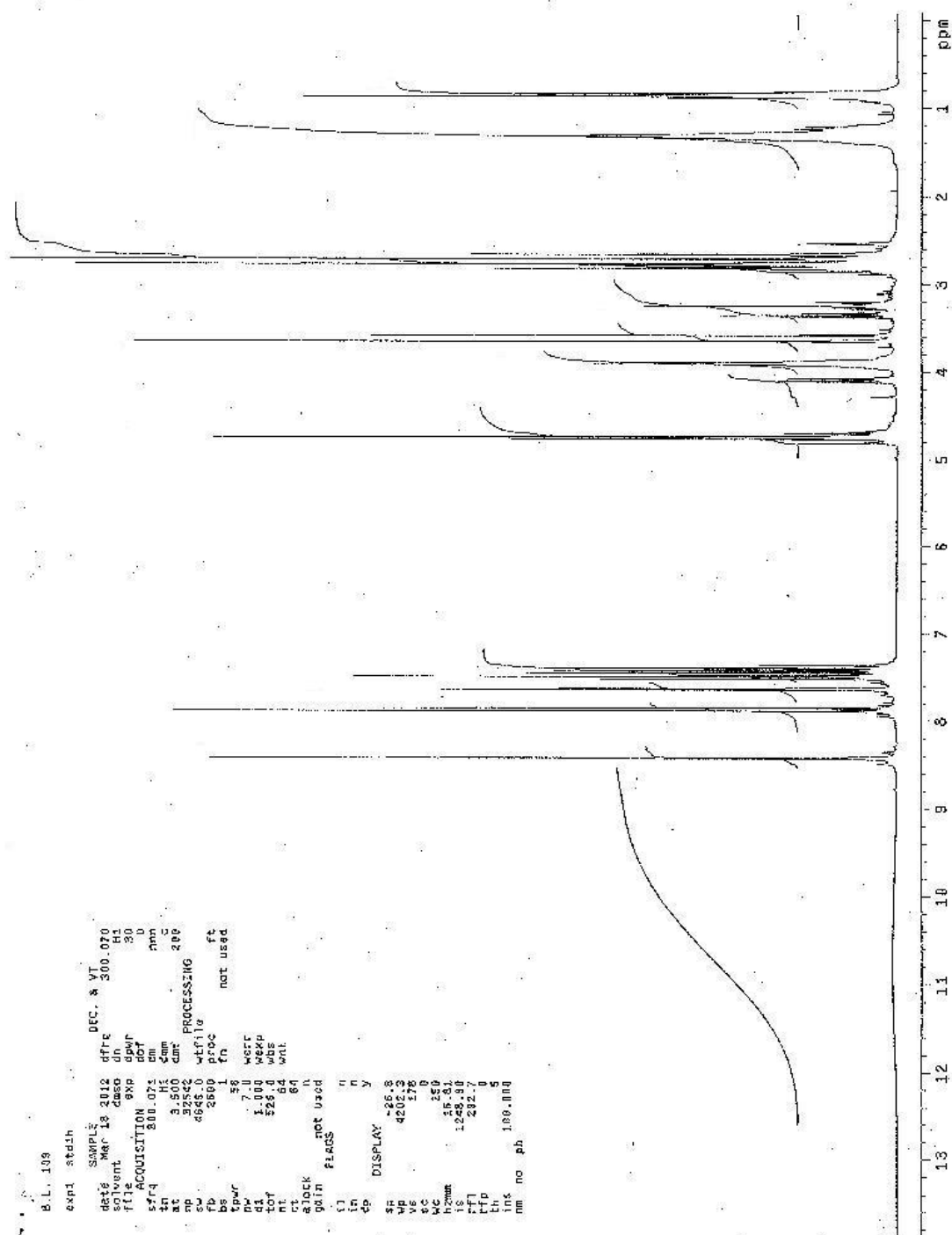
INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2920.876	8.734	14.4	40	2211.183	7.369	11.3	79	754.189	2.512	8.8				
2	2908.785	8.664	4.8	41	2205.777	7.361	49.5	80	752.281	2.507	4.0				
3	2789.137	8.285	35.5	42	2207.560	7.357	49.8	81	680.503	2.362	3.5				
4	2782.015	8.271	24.7	43	2206.879	7.355	34.4	82	405.542	1.352	4.5				
5	2557.705	8.554	42.1	44	2204.133	7.348	34.4	83	404.379	1.348	4.8				
6	2540.539	8.457	29.3	45	2202.039	7.338	106.8	84	402.971	1.343	5.1				
7	2384.275	7.679	29.3	46	2189.876	7.321	11.1	85	398.521	1.328	10.8				
8	2382.716	7.672	31.6	47	2188.350	7.326	7.8	86	395.585	1.318	7.1				
9	2380.714	7.667	35.4	48	2186.088	7.325	7.5	87	381.509	1.308	11.9				
10	2298.044	7.658	26.1	49	2182.485	7.373	2.6	88	383.984	1.296	10.5				
11	2295.838	7.655	20.5	50	1476.743	4.928	5.2	89	384.915	1.283	16.7				
12	2295.755	7.651	28.5	51	1464.253	4.860	23.6	90	381.554	1.271	9.9				
13	2284.510	7.647	38.7	52	1458.283	4.853	32.2	91	377.821	1.259	12.7				
14	2292.530	7.641	31.7	53	1454.481	4.847	5.8	92	375.365	1.244	8.8				
15	2292.530	7.641	31.7	54	1444.797	4.815	5.0	93	374.458	1.238	8.0				
16	2281.559	7.637	51.8	55	1245.155	4.150	7.2	94	365.863	1.223	4.2				
17	2281.950	7.635	31.4	56	1238.306	4.130	6.6	95	364.686	1.215	5.5				
18	2259.317	7.630	51.3	57	1237.017	4.122	6.8	96	363.933	1.213	5.5				
19	2257.828	7.625	6.8	58	1231.168	4.103	6.0	97	360.249	1.201	4.3				
20	2257.854	7.618	5.7	59	1186.026	3.953	4.0	98	356.512	1.189	2.7				
21	2255.928	7.618	4.3	60	1183.555	3.944	3.0	99	353.373	1.173	3.1				
22	2255.981	7.550	17.6	61	1180.552	3.934	4.7	100	316.502	1.065	3.1				
23	2253.595	7.545	2.5	62	1178.905	3.929	4.7	101	310.399	1.034	3.0				
24	2256.371	7.522	34.3	63	1175.690	3.916	9.9	102	260.297	0.867	12.6				
25	2243.850	7.493	11.6	64	1172.574	3.908	14.2	103	253.904	0.854	36.0				
26	2241.535	7.470	40.6	65	1168.605	3.884	14.6	104	245.023	0.830	26.8				
27	2238.577	7.464	25.2	66	1162.374	3.874	5.0	105	240.868	0.808	6.3				
28	2235.313	7.443	13.1	67	1023.005	3.498	5.8	106	238.530	0.795	7.3				
29	2234.157	7.435	14.1	68	1016.775	3.588	9.2	107	0.000	0.000	6.1				
30	2224.759	7.431	13.8	69	1008.754	3.582	10.1								
31	2227.597	7.424	17.0	70	1006.880	3.536	6.1								
32	2223.509	7.411	8.3	71	892.190	3.336	2.4								
33	2221.239	7.402	10.7	72	881.808	3.303	3.4								
34	2218.204	7.396	9.8	73	930.793	3.269	13.8								
35	2218.441	7.393	5.3	74	970.997	3.236	2.8								
36	2217.287	7.389	4.1	75	852.703	3.178	51.2								
37	2216.534	7.387	8.6	76	759.557	3.582	3.6								
38	2213.462	7.377	6.4	77	757.976	2.585	6.0								
39	2212.465	7.373	17.6	78	755.569	2.519	13.2								

¹³C NMR

INDEX	FREQUENCY	PPM	HEIGHT
1	11145.882	147.722	28.6
2	11104.818	147.177	9.2
3	11089.497	147.026	15.7
4	10988.889	144.408	13.8
5	10244.305	135.772	12.8
6	10189.751	135.049	13.5
7	10156.613	130.612	23.9
8	10143.431	134.435	15.2
9	9998.297	132.511	18.8
10	9861.159	122.492	16.3
11	9858.301	134.656	13.3
12	9842.883	130.451	15.0
13	9814.048	130.069	21.3
14	9781.844	128.742	12.6
15	9718.521	128.601	61.8
16	9644.208	127.818	30.8
17	9611.271	127.382	13.8
18	9589.948	127.232	15.2
19	9471.283	125.327	116.8
20	7888.921	106.005	90.1
21	5850.123	77.584	16.4
22	5787.484	76.508	18.6
23	5257.293	59.678	13.5
24	5207.868	59.553	10.0
25	4838.215	54.315	10.8
26	4087.321	54.179	15.0
27	3043.186	40.332	32.0
28	3022.572	40.089	31.5
29	3000.856	30.773	183.8
30	2860.369	33.500	219.0
31	2958.754	34.214	176.8
32	2958.187	38.341	98.1
33	2917.581	38.668	30.0
34	2586.410	34.439	15.1
35	2577.904	34.188	22.8
36	1392.152	18.404	16.7
37	1384.810	18.855	24.7
38	1043.133	13.828	25.7
39	1041.124	13.798	20.9

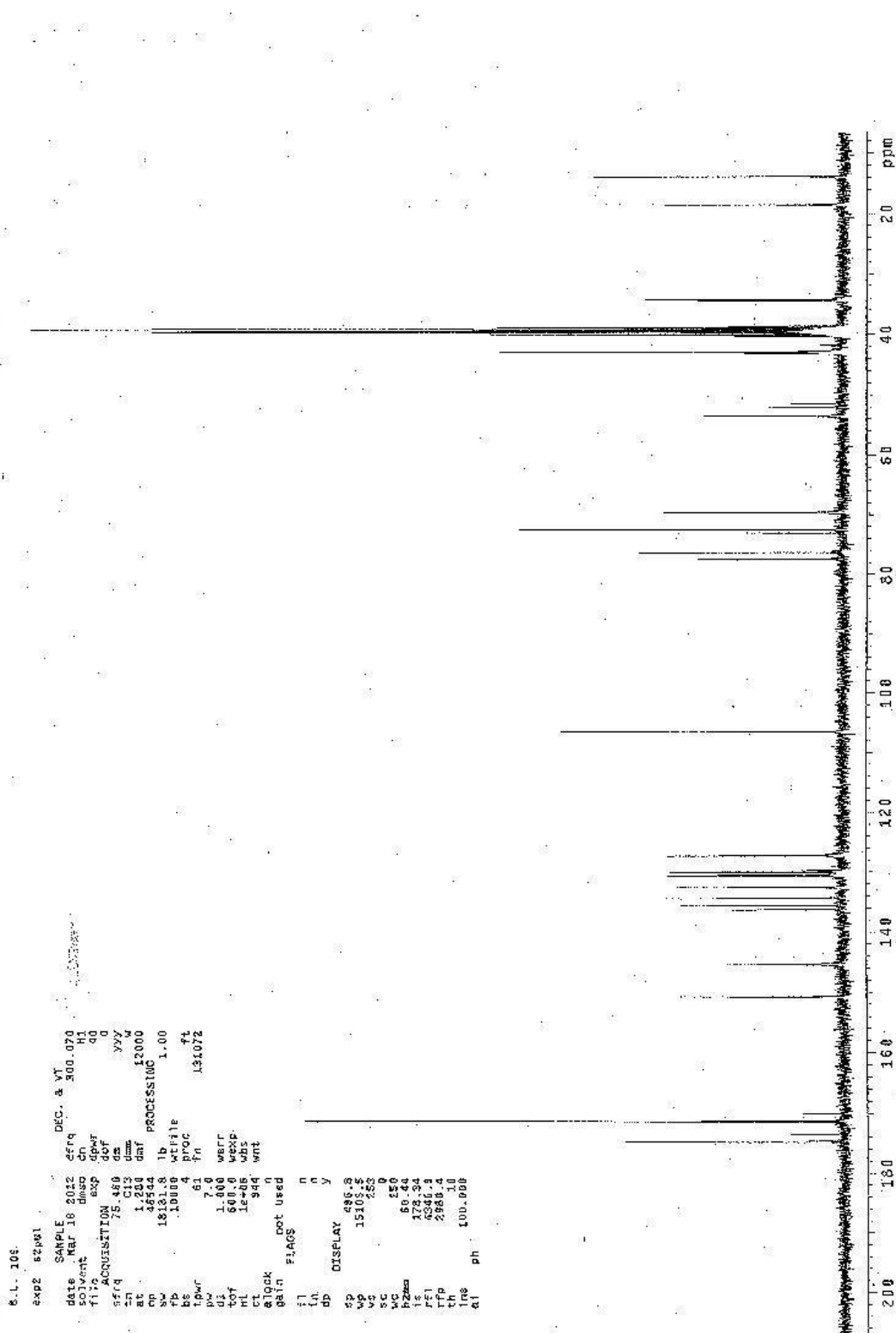
Propiconazole dihydrogencitrate

¹H NMR

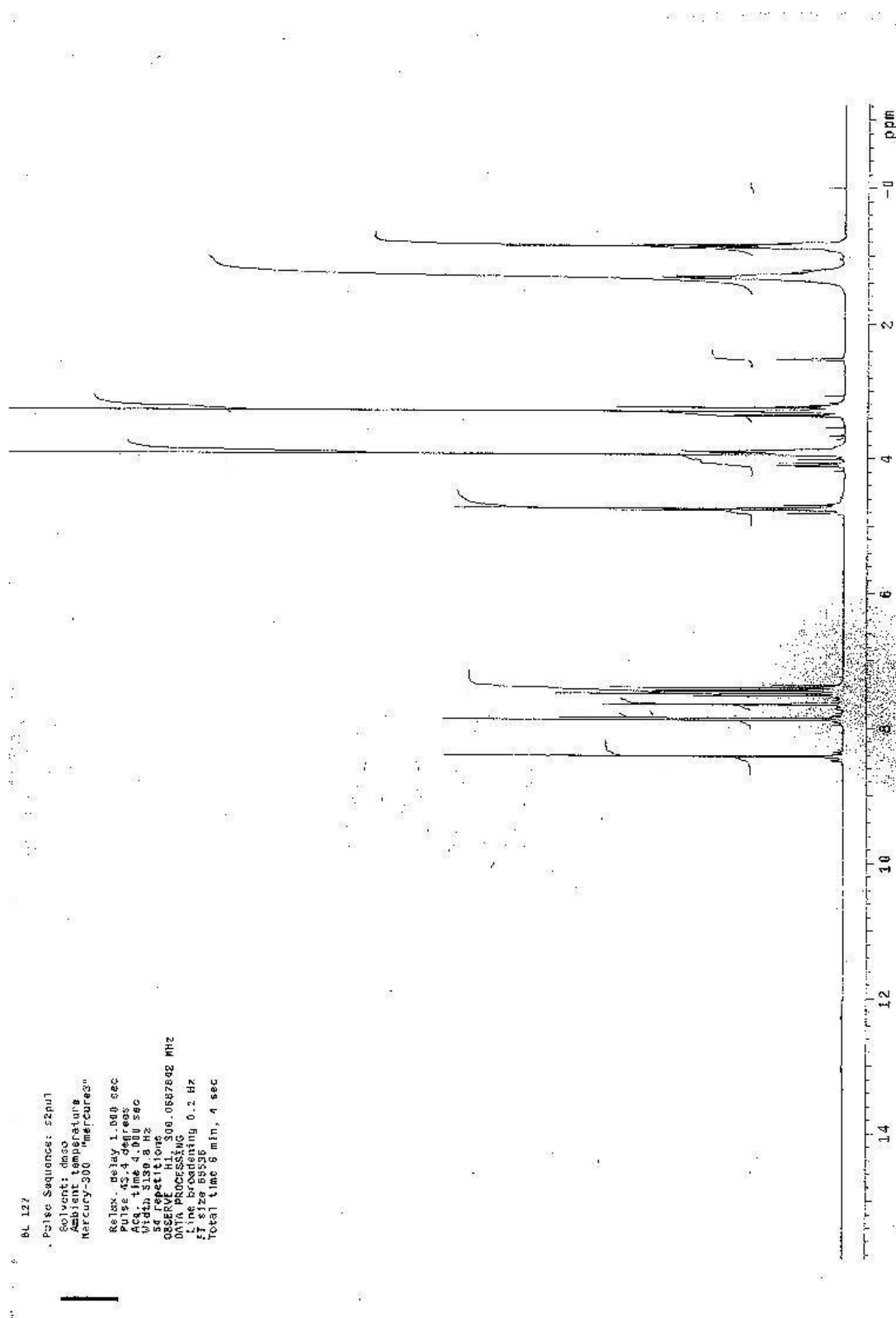


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2522.737	8.427	135.0	40	1012.615	3.376	20.8	79	383.068	1.219	18.6
2	2522.810	8.421	102.5	41	1012.593	3.344	35.6	80	387.858	1.193	10.0
3	2526.810	7.886	145.1	42	986.724	3.822	14.1	81	355.372	1.186	8.7
4	2533.697	7.851	103.1	43	982.319	3.275	12.3	82	275.948	0.920	8.8
5	2539.268	7.642	87.3	44	972.898	3.241	50.6	83	284.891	0.863	46.1
6	2540.898	7.635	94.7	45	982.835	3.204	11.1	84	285.071	0.864	119.1
7	2539.146	7.632	71.7	46	938.415	3.134	18.5	85	231.260	0.837	62.5
8	2537.676	7.625	67.3	47	868.636	2.978	7.9	86	249.274	0.831	78.6
9	2568.012	7.553	5.2	48	858.412	2.862	5.8	87	243.315	0.811	21.6
10	2556.945	7.521	59.5	49	855.405	2.851	25.0	88	241.896	0.808	24.9
11	2546.432	7.493	109.9	50	848.596	2.828	25.4				
12	2544.176	7.479	44.1	51	843.772	2.812	30.8				
13	2535.553	7.451	74.5	52	840.089	2.800	56.3				
14	2528.552	7.420	93.0	53	835.502	2.789	30.3				
15	2526.566	7.421	83.5	54	833.536	2.776	32.7				
16	2520.353	7.383	36.5	55	831.853	2.772	33.3				
17	2518.523	7.383	34.2	56	828.408	2.761	104.7				
18	2518.082	7.385	43.3	57	825.908	2.746	37.2				
19	2508.840	7.364	26.8	58	820.786	2.737	16.4				
20	2507.569	7.357	27.6	59	811.138	2.703	178.2				
21	1445.364	4.817	20.0	60	795.815	2.652	85.5				
22	1430.931	4.788	77.3	61	783.181	2.543	7.7				
23	1422.946	4.742	137.2	62	761.473	2.538	14.8				
24	1409.609	4.698	22.3	63	759.776	2.532	20.1				
25	1403.266	4.677	8.5	64	758.073	2.526	15.1				
26	1285.855	4.285	5.4	65	756.371	2.521	8.2				
27	1285.842	4.118	16.9	66	418.685	1.985	10.6				
28	1230.166	4.109	24.1	67	414.923	1.931	15.0				
29	1227.896	4.092	22.4	68	413.233	1.927	15.2				
30	1222.057	4.072	22.0	69	407.834	1.937	28.4				
31	1195.720	3.945	10.6	70	400.240	1.934	90.4				
32	1176.950	3.920	24.8	71	394.564	1.935	63.2				
33	1172.845	3.949	45.3	72	383.178	1.927	61.8				
34	1170.875	3.861	60.8	73	383.781	1.929	39.8				
35	1166.782	3.888	56.6	74	379.241	1.954	23.1				
36	1160.743	3.888	18.9	75	376.119	1.933	17.8				
37	1098.030	3.699	17.3	76	372.146	1.940	20.7				
38	1084.341	3.647	133.0	77	376.444	1.935	13.2				
39	1074.760	3.582	105.7	78	365.052	1.817	17.3				

¹³C NMR

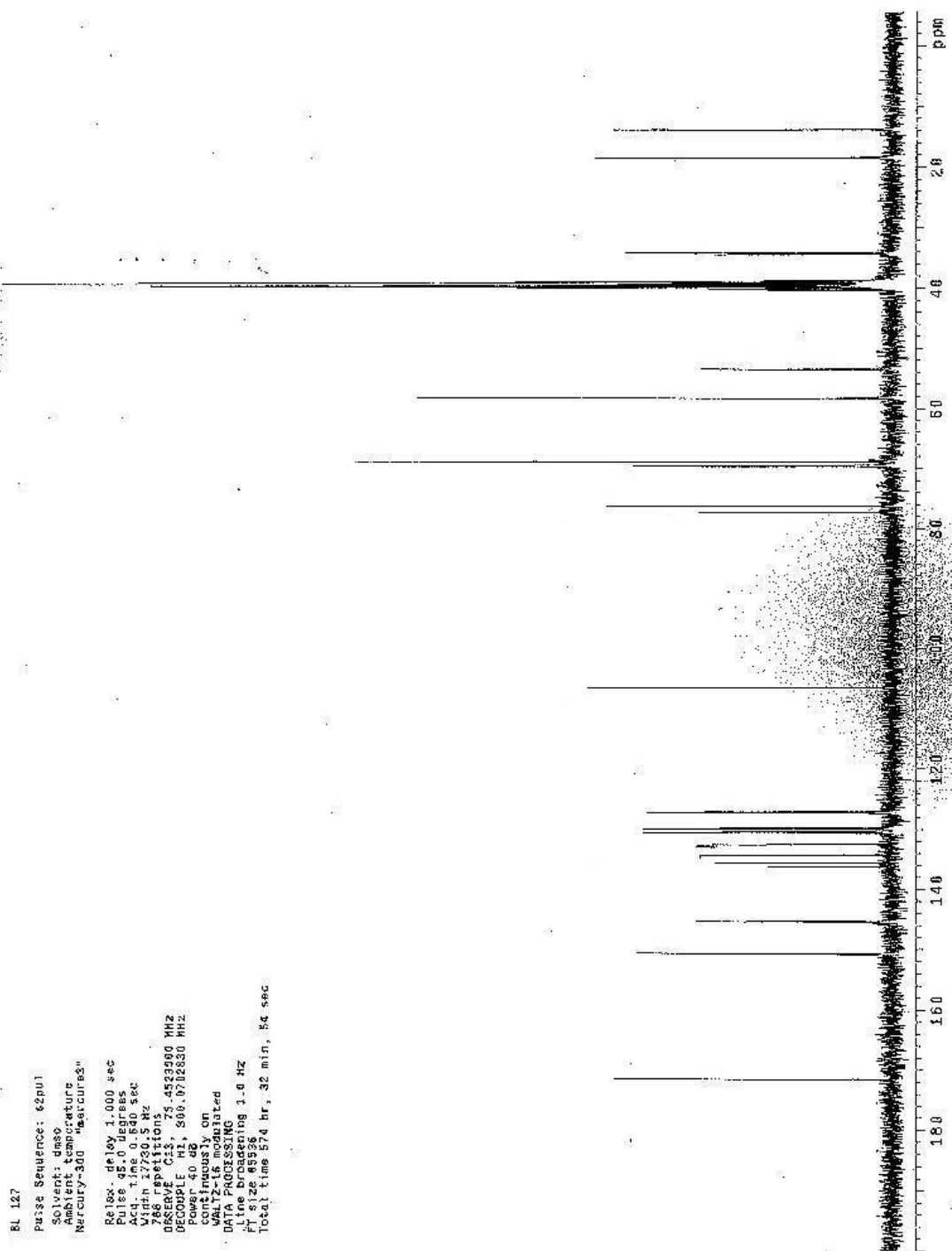


INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	13192.261	174.842	38.8	40	3022.262	44.906	63.3
2	13174.505	174.807	5.3	41	3001.454	39.773	123.1
3	13074.561	173.552	8.8	42	2981.368	39.500	148.2
4	12555.076	171.494	95.3	43	2959.269	39.221	123.0
5	12327.032	171.927	9.8	44	2938.476	38.945	51.5
6	12320.328	171.246	25.6	45	2917.391	38.665	20.2
7	12331.871	170.056	7.1	46	2896.003	38.454	25.8
8	11930.539	150.832	15.1	47	2582.802	34.231	35.3
9	11372.631	150.729	29.5	48	1402.031	18.482	32.0
10	10572.757	145.426	21.0	49	1385.573	18.493	42.0
11	10491.847	145.233	15.4	50	1047.467	13.482	49.8
12	10283.850	136.285	13.6	51	1043.306	13.827	51.8
13	10232.294	135.613	28.9				
14	10143.509	134.436	31.5				
15	10131.902	134.274	22.6				
16	10093.403	132.573	23.5				
17	9897.022	132.484	21.2				
18	9694.175	130.612	31.2				
19	9051.151	120.402	22.6				
20	8808.595	121.594	38.5				
21	9787.557	121.718	21.7				
22	4601.337	127.251	31.8				
23	4590.346	127.104	22.4				
24	8435.544	105.485	50.1				
25	8639.435	108.484	43.2				
26	5840.465	77.406	25.3				
27	5789.175	76.328	36.0				
28	5512.834	73.060	17.3				
29	5471.261	72.518	57.4				
30	5257.013	61.675	23.1				
31	5231.133	61.596	31.6				
32	4842.392	53.583	17.3				
33	4806.416	53.431	24.6				
34	3959.752	52.083	13.3				
35	3078.432	51.602	8.1				
36	3252.535	43.107	17.7				
37	3239.772	42.458	61.4				
38	3234.238	42.732	8.1				
39	3043.547	40.325	20.5				

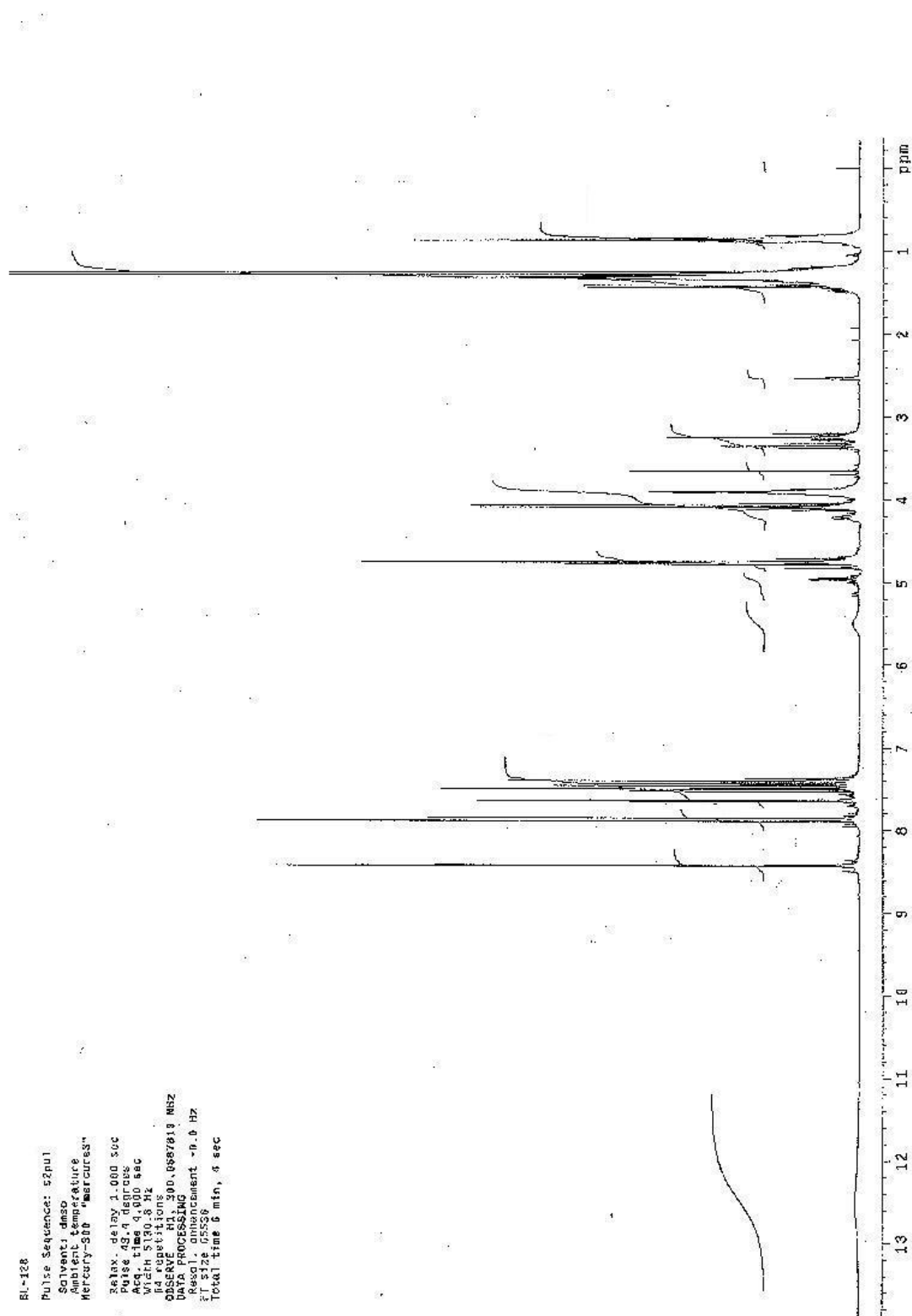
¹H NMR

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	2545.256	8.486	2.4	40	1134.219	3.880	22.9	79	277.313	0.924	3.9	80	277.313	0.924	3.9
2	2545.257	8.479	2.4	41	1160.238	3.867	12.6	81	274.051	0.915	3.8	82	274.051	0.915	3.8
3	2545.257	8.480	85.5	42	1091.230	3.663	3.2	83	264.786	0.882	28.0	84	264.786	0.882	28.0
4	2524.838	8.415	62.3	43	1061.493	3.537	4.1	85	261.511	0.879	10.4	86	261.511	0.879	10.4
5	2518.831	8.395	2.7	44	1011.336	3.371	27.3	87	257.740	0.859	72.7	88	257.740	0.859	72.7
6	2354.441	7.880	85.7	45	1003.713	3.305	29.5	89	251.168	0.837	36.8	90	251.168	0.837	36.8
7	2354.106	7.845	60.8	46	1000.369	3.323	29.5	91	249.127	0.830	45.5	92	249.127	0.830	45.5
8	2235.267	7.650	43.6	47	998.727	3.313	15.0	93	243.490	0.811	12.0	94	243.490	0.811	12.0
9	2235.267	7.650	81.7	48	998.474	3.310	13.2	95	242.821	0.807	34.7	96	242.821	0.807	34.7
10	2231.342	7.623	37.2	49	993.643	3.312	13.5	97	238.466	0.795	3.0	98	238.466	0.795	3.0
11	2230.043	7.632	36.1	50	991.449	3.304	7.6	99	0.079	0.009	3.3	100	0.079	0.009	3.3
12	2234.874	7.514	32.2	51	981.791	3.272	11.9								
13	2246.213	7.486	61.7	52	980.069	3.266	7.1								
14	2242.394	7.473	25.4	53	977.093	3.256	5.5								
15	2233.343	7.444	45.3	54	971.826	3.239	48.8								
16	2228.334	7.431	49.3	55	961.805	3.206	7.8								
17	2227.742	7.424	39.5	56	955.854	3.186	2.5								
18	2221.478	7.403	22.2	57	952.196	3.173	9.4								
19	2219.236	7.386	59.2	58	949.940	3.068	4.3								
20	2217.250	7.359	28.7	59	949.596	2.531	4.6								
21	2214.432	7.330	5.0	60	947.717	2.525	10.3								
22	2210.350	7.368	15.7	61	946.835	2.513	14.7								
23	2209.792	7.361	15.3	62	934.118	2.513	16.5								
24	1443.562	4.611	22.3	63	932.383	2.507	3.2								
25	1423.919	4.762	50.2	64	916.710	1.395	6.1								
26	1421.170	4.736	83.4	65	913.229	1.377	8.8								
27	1408.017	4.692	25.2	66	907.379	1.357	16.6								
28	1401.733	4.671	3.7	67	900.876	1.333	33.1								
29	1355.146	4.116	10.7	68	894.126	1.313	51.5								
30	1229.333	4.087	24.6	69	888.489	1.295	38.3								
31	1227.004	4.089	13.3	70	882.951	1.279	22.4								
32	1221.210	4.070	14.1	71	874.049	1.263	13.1								
33	1218.073	4.059	2.3	72	877.371	1.258	9.4								
34	1203.259	4.019	9.9	73	875.895	1.252	9.7								
35	1183.620	3.945	463.8	74	872.047	1.240	11.5								
36	1176.270	3.920	16.7	75	867.663	1.225	7.3								
37	1172.335	3.907	26.9	76	866.301	1.216	9.3								
38	1170.320	3.900	34.3	77	861.359	1.204	5.6								
39	1160.405	3.897	34.3	78	857.377	1.194	5.4								

¹³C NMR



	FREQUENCY	PPM	HEIGHT
1	13442.715	171.535	55.1
2	11375.206	150.773	36.5
3	11368.631	150.673	50.8
4	14988.587	145.344	28.0
5	16955.785	145.301	28.3
6	16217.215	136.203	24.3
7	16217.433	136.648	26.4
8	16155.485	134.328	38.4
9	16122.381	134.184	24.7
10	8886.389	132.466	35.9
11	9869.667	132.409	25.1
12	9848.537	130.528	50.7
13	9832.424	130.313	33.7
14	9801.581	124.904	48.9
15	9761.014	123.632	34.2
16	5584.879	127.165	49.7
17	5584.055	127.821	37.3
18	8023.910	166.410	60.6
19	5032.551	77.901	38.6
20	5751.985	76.225	56.4
21	5243.778	69.577	37.5
22	5243.826	69.483	52.8
23	5138.288	68.867	187.8
24	4835.568	58.254	95.3
25	4034.488	53.470	28.3
26	4023.486	53.391	38.6
27	5043.138	40.832	24.7
28	3022.035	40.032	74.6
29	2069.352	33.773	147.5
30	2880.369	39.508	177.3
31	2959.265	39.289	190.1
32	2936.183	38.941	75.2
33	2917.050	38.561	25.4
34	2592.938	34.365	36.8
35	2576.181	34.163	52.9
36	1395.463	18.495	42.5
37	1386.423	18.401	76.3
38	1040.456	13.710	55.4
39	1036.167	13.733	35.4

¹H NMR

	FREQUENCY	PPN	HEIGHT	INDEX	FREQUENCY	PPN	HEIGHT	INDEX	FREQUENCY	PPN	HEIGHT
2	2548.585	8.493	8.7	46	1226.170	3.035	10.4	70	380.140	1.432	57.1
3	2528.855	8.423	115.6	41	1225.028	4.093	78.4	60	383.812	1.418	16.1
4	2526.820	8.421	38.9	42	1225.008	4.079	22.3	31	383.804	1.418	57.9
5	2522.905	8.408	5.0	43	1213.235	4.080	81.3	82	480.889	1.402	11.9
6	2505.650	7.804	126.0	44	1211.505	4.037	25.3	83	417.613	1.392	10.1
7	2495.515	7.850	30.4	45	1185.552	3.980	5.4	84	415.352	1.383	11.5
8	2493.315	7.602	72.9	46	1182.847	3.992	7.2	85	415.012	1.380	11.4
9	2491.315	7.696	80.1	47	1179.039	3.998	11.6	86	408.218	1.350	28.8
10	2490.063	7.692	95.4	48	1177.953	3.993	35.2	87	406.688	1.255	18.1
11	2488.454	7.688	56.4	49	1175.215	3.816	52.5	88	480.545	1.335	60.8
12	2486.027	7.625	4.3	50	1171.239	3.898	41.6	89	387.415	1.324	71.2
13	2457.023	7.522	48.2	51	1167.245	3.899	44.1	90	383.439	1.311	84.8
14	2448.567	7.494	57.5	52	1161.233	3.879	14.5	91	380.524	1.301	73.2
15	2444.809	7.481	85.4	53	1161.059	3.689	6.1	92	389.585	1.288	54.5
16	2436.254	7.453	89.9	54	1106.120	3.696	5.7	93	386.610	1.286	59.2
17	2429.307	7.428	58.5	55	1095.436	3.644	48.1	94	382.536	1.275	57.1
18	2427.272	7.423	83.3	56	1012.482	3.574	15.9	95	381.659	1.269	316.3
19	2420.852	7.401	84.4	57	1004.486	3.549	29.1	96	375.649	1.252	48.5
20	2418.816	7.394	73.4	58	996.510	3.521	15.8	97	373.770	1.246	310.7
21	2416.781	7.388	41.1	59	985.222	3.510	4.3	98	365.471	1.213	15.2
22	2410.381	7.368	24.0	60	982.574	3.274	10.1	99	361.086	1.203	14.3
23	2408.158	7.358	23.4	61	977.876	3.259	4.2	100	358.424	1.184	9.4
24	1400.684	4.962	10.5	62	972.552	3.241	40.4	101	354.136	1.184	10.4
25	1406.466	4.954	9.4	63	968.759	3.232	4.5	102	277.733	0.926	3.8
26	1403.547	4.944	10.5	64	962.688	3.206	13.7	103	285.958	0.884	38.8
27	1429.358	4.930	8.3	65	958.480	3.194	13.3	104	282.281	0.874	20.4
28	1445.910	4.819	15.7	66	952.582	2.540	5.3	105	226.208	0.861	93.4
29	1431.943	4.779	61.8	67	780.378	2.534	8.6	106	256.487	0.855	48.5
30	1423.362	4.743	104.1	68	785.500	2.528	13.8	107	231.320	0.838	46.5
31	1410.052	4.639	17.5	69	756.778	2.522	10.3	108	249.384	0.831	60.3
32	1403.845	4.679	4.5	70	754.889	2.518	4.8	109	243.647	0.812	16.1
33	1386.480	4.227	5.8	71	446.491	1.495	5.1	110	242.238	0.807	19.8
34	1385.450	4.220	5.1	72	447.834	1.492	5.2	111	238.793	0.786	4.7
35	1264.809	4.204	5.9	73	443.507	1.478	5.3	112	-0.000	-0.000	5.
36	1259.280	4.187	5.0	74	442.041	1.473	6.3				
37	1254.250	4.180	8.7	75	440.788	1.469	6.0				
38	1256.242	4.120	14.2	76	436.404	1.450	6.0				
39	1232.015	4.100	28.6	77	435.151	1.450	6.0				
40	1230.449	4.101	22.4	78	432.359	1.443	7.6				

¹³C NMR

BL-128

Pulse Sequence: zgpg30

Solvent: dms

Ambient temperature

Mercury-300 5mm

Relax. delay 1.000 sec

Pulse 12.000000 sec

Width 17780.5 Hz

3372 repetitions

OBSERVE C13, 75.4523873 MHz

DECOUPLE H1, 500.132830 MHz

Power 40.00

Cont. mode on

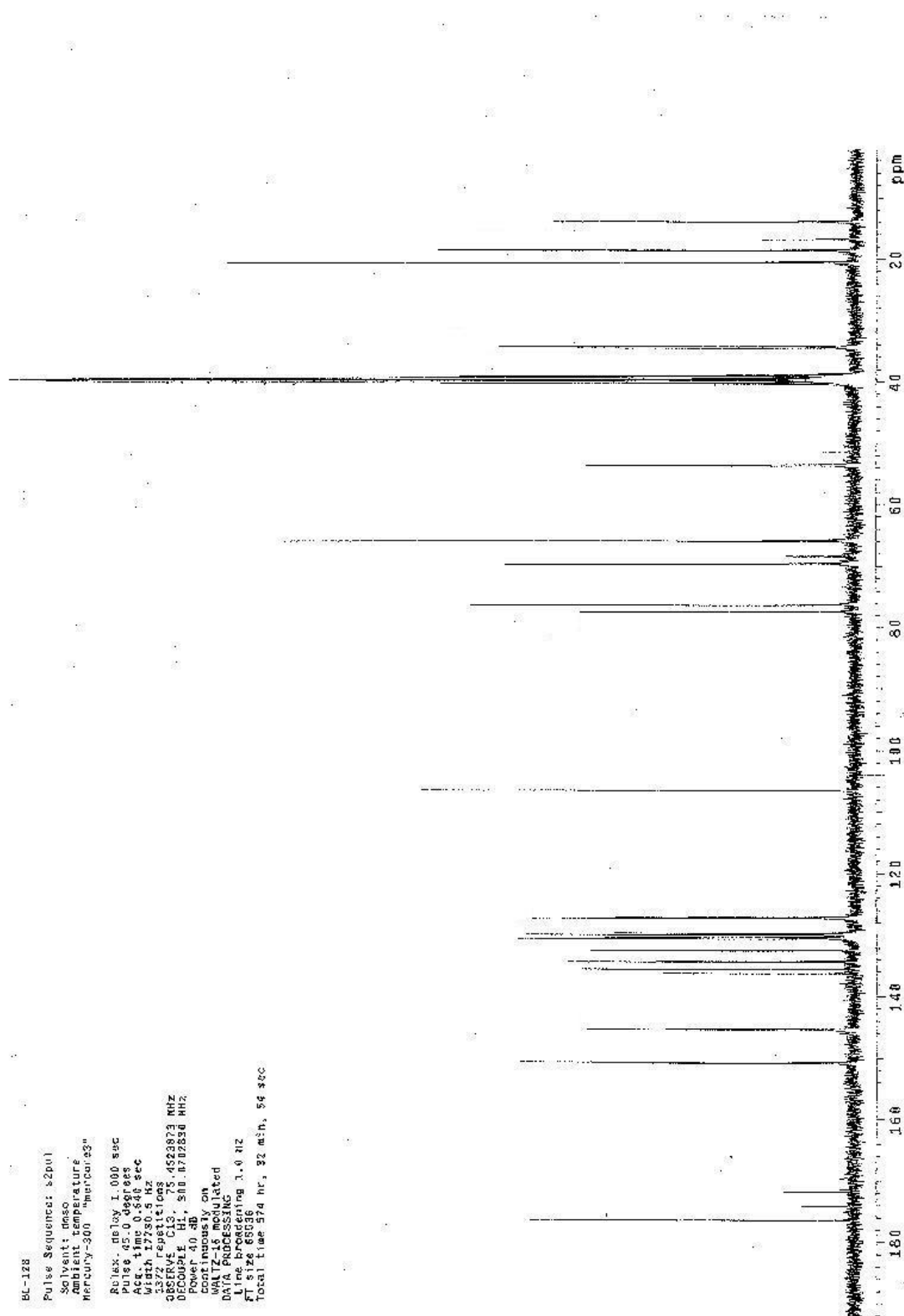
WALTZ-16 modulated

DATA PROCESSING

Line broadening 3.0 Hz

FI size 65036

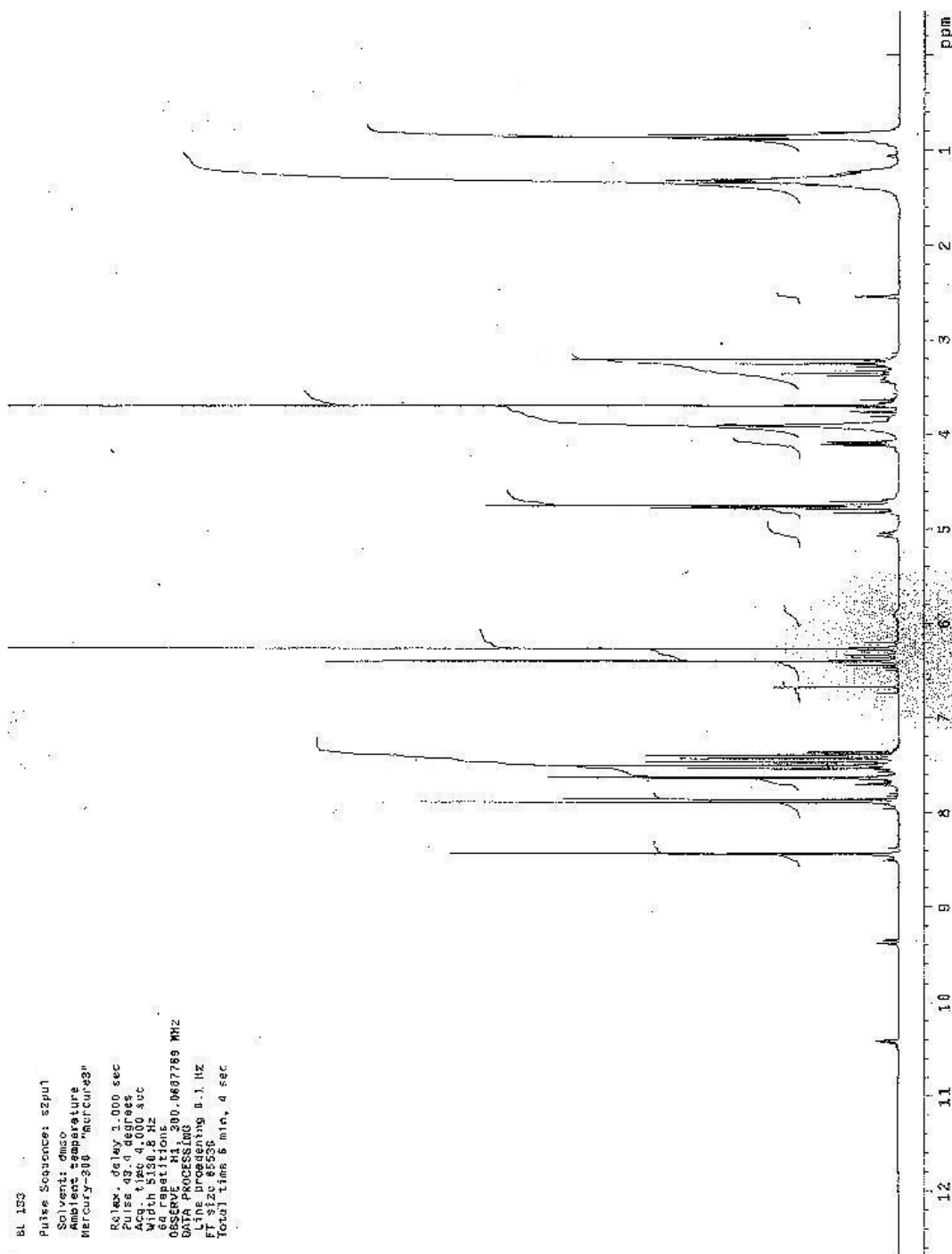
Total time 574 hr, 32 min, 54 sec



INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
1	13307.353	175.376	58.5	40	2858.704	39.048	23.1
2	13141.301	174.067	9.3	41	2817.601	39.669	26.2
3	13136.890	174.065	11.1	42	2895.641	34.401	56.4
4	12961.652	171.786	14.7	43	2870.328	34.172	75.7
5	11377.268	150.784	53.0	44	1543.727	20.460	133.2
6	11369.713	150.687	70.2	45	1637.775	20.381	98.5
7	10867.689	145.359	56.2	46	1898.159	19.538	65.6
8	10957.388	145.223	39.7	47	1891.434	18.487	68.8
9	10279.832	136.229	40.1	48	1262.250	16.790	18.4
10	10228.555	135.563	57.0	49	1853.692	15.616	7.9
11	10156.631	134.332	50.5	50	1042.115	13.812	61.3
12	10126.246	134.207	41.7	51	1027.730	13.754	63.8
13	9999.065	132.522	55.5				
14	9882.582	132.436	44.4				
15	9650.281	130.650	70.9				
16	9034.583	130.342	52.6				
17	9603.745	129.933	61.0				
18	9782.642	129.653	50.3				
19	9595.869	127.179	70.1				
20	9585.137	127.036	50.1				
21	8031.616	106.446	91.2				
22	7638.951	103.803	-6.8				
23	5635.708	77.893	57.0				
24	5784.041	75.281	80.8				
25	5252.483	69.813	56.3				
26	5246.531	69.534	75.4				
27	5107.030	66.401	12.7				
28	5104.001	66.306	14.5				
29	4376.519	55.856	9.5				
30	4886.227	55.618	140.3				
31	4355.415	55.676	13.3				
32	4053.236	53.920	41.7				
33	4031.202	53.427	56.4				
34	3830.232	51.426	6.7				
35	3843.138	40.532	23.3				
36	3042.576	40.089	87.1				
37	3061.473	39.769	176.3				
38	2980.369	39.500	194.5				
39	2856.266	38.220	166.0				

Propiconazole maleate

^1H NMR



INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT	INDEX	FREQUENCY PPM	HEIGHT
1	3129.987	10.431	40	2231.789	7.464	50.3	73	1195.060	3.983	2.8	118	429.671	1.432	2.9
2	3124.863	10.413	41	2231.913	7.432	50.3	80	1190.050	3.988	5.0	119	421.215	1.404	7.6
3	3121.531	10.403	42	2228.211	7.426	43.5	81	1187.388	3.957	5.0	120	415.591	1.396	11.6
4	2315.407	9.383	43	2226.178	7.419	38.0	82	1184.569	3.948	7.0	121	409.314	1.364	16.3
5	2314.824	9.380	44	2215.755	7.397	29.2	83	1181.751	3.938	11.6	122	407.278	1.357	19.7
6	2304.816	9.346	45	2217.720	7.391	50.6	84	1180.811	3.935	11.7	123	402.268	1.341	40.5
7	2302.830	9.341	46	2215.685	7.384	27.9	85	1179.865	3.915	28.6	124	396.940	1.302	46.5
8	2351.207	8.502	47	2208.421	7.363	13.3	86	1178.912	3.907	38.5	125	391.464	1.305	37.5
9	2349.388	8.506	48	2207.228	7.358	13.1	87	1169.754	3.895	34.8	126	385.513	1.286	35.7
10	2331.517	8.436	49	2021.705	6.738	4.4	88	1165.047	3.895	11.2	127	380.859	1.289	14.1
11	2328.638	8.430	50	2002.415	6.673	23.1	89	1152.839	3.862	2.5	128	378.780	1.252	11.2
12	2307.459	7.858	51	1950.365	6.500	2.6	90	1148.074	3.808	5.7	129	373.615	1.245	11.0
13	2307.434	7.822	52	1948.377	6.466	3.1	91	1128.568	3.761	8.7	130	369.698	1.232	12.7
14	2307.572	7.830	53	1938.941	6.461	3.2	92	1127.418	3.757	6.5	131	368.698	1.232	8.3
15	2357.394	7.850	54	1933.408	6.442	10.5	93	1113.471	3.711	3.8	132	366.567	1.222	10.8
16	2347.889	7.825	55	1921.137	6.402	11.1	94	1106.938	3.686	32.9	133	363.122	1.210	6.4
17	2311.828	7.704	56	1918.855	6.395	10.7	95	1104.892	3.672	5.3	134	359.677	1.189	6.0
18	2310.828	7.701	57	1915.880	6.365	2.9	96	1100.170	3.666	3.3	135	361.000	1.076	2.6
19	2309.792	7.693	58	1906.936	6.355	3.6	97	1096.504	3.661	4.0	136	278.408	0.823	4.8
20	2308.853	7.684	59	1901.417	6.337	3.2	98	1089.565	3.639	7.8	137	275.277	0.817	0.7
21	2307.757	7.631	60	1899.538	6.320	10.7	99	1093.404	3.647	3.9	138	271.206	0.804	7.0
22	2305.408	7.639	61	1884.189	6.279	4.3	100	1025.948	3.419	3.4	139	265.725	0.896	32.2
23	2301.807	7.671	62	1882.940	6.275	5.2	101	1023.288	3.419	3.4	140	262.584	0.875	22.2
24	2287.422	7.956	63	1878.909	6.265	30.4	102	1018.432	3.384	3.1	141	258.678	0.892	70.5
25	2286.532	7.927	64	1878.364	6.253	5.9	103	1014.204	3.380	14.4	142	256.800	0.886	40.2
26	2287.716	7.824	65	1875.324	6.250	4.1	104	1008.216	3.353	23.7	143	251.783	0.889	38.8
27	2285.678	7.617	66	1866.535	6.199	6.6	105	998.252	3.327	12.8	144	248.597	0.882	59.2
28	2285.678	7.617	67	1824.360	5.080	3.1	106	985.414	3.317	3.2	145	242.551	0.889	16.2
29	2302.697	7.694	68	1821.854	5.072	4.4	107	984.786	3.282	8.5	146	238.419	0.798	3.4
30	2271.272	7.568	69	1812.903	5.040	3.9	108	981.165	3.279	4.5	147	0.000	0.980	2.6
31	2269.080	7.562	70	1806.572	4.827	13.2	109	974.745	3.248	32.7				
32	2268.141	7.559	71	1804.186	4.778	50.2	110	969.108	3.230	5.9				
33	2266.105	7.552	72	1802.481	4.753	82.2	111	964.830	3.216	7.3				
34	2258.342	7.531	73	1812.027	4.708	13.7	112	961.591	3.205	65.0				
35	2256.866	7.521	74	1806.764	4.688	3.4	113	959.077	2.589	2.8				
36	2256.884	7.518	75	1807.495	4.124	11.1	114	955.183	2.549	6.5				
37	2251.886	7.508	76	1791.701	4.105	15.8	115	951.475	2.589	8.0				
38	2248.254	7.492	77	1728.953	4.087	14.2	116	949.596	2.581	6.5				
39	2245.582	7.484	78	1723.558	4.076	10.5	117	957.874	2.586	2.9				

INDEX	FREQUENCY	PPM	HEIGHT	INDEX	FREQUENCY	PPM	HEIGHT
2	12049.426	170.961	6.2	40	2947.601	33.568	22.4
3	12584.241	166.816	103.0	41	2998.868	34.444	45.0
5	12584.406	166.522	95.3	42	2581.031	34.207	61.4
4	12590.931	166.071	7.7	43	1400.674	18.568	94.3
5	12599.828	165.783	25.7	44	1394.381	18.400	88.9
6	11377.629	150.765	87.0	45	1043.742	13.883	65.5
7	11370.254	150.584	50.6	46	1058.414	13.776	60.8
8	10682.292	145.380	34.6				
9	10656.470	145.232	25.1				
10	10261.065	136.266	51.4				
11	10229.587	136.577	47.5				
12	10163.020	134.428	51.4				
13	10159.575	134.264	43.0				
14	10114.882	134.886	11.1				
15	10002.382	132.985	53.1				
16	8486.380	132.488	34.3				
17	9427.113	131.068	57.5				
18	8904.604	131.217	117.0				
19	8852.966	130.585	53.2				
20	9337.384	130.378	37.8				
21	9365.988	129.954	53.7				
22	9784.606	129.682	38.3				
23	9765.605	128.655	59.7				
24	9597.583	127.201	54.8				
25	9585.781	127.057	30.6				
26	8034.582	106.489	87.2				
27	5640.137	77.401	46.1				
28	5757.878	76.311	64.5				
29	5255.750	61.656	40.1				
30	5248.777	61.577	55.5				
31	4042.565	53.578	31.7				
32	4034.383	53.477	43.7				
33	3305.664	51.763	50.5				
34	3043.674	41.399	23.9				
35	3022.576	40.059	72.5				
36	5061.472	38.780	141.2				
37	2880.368	39.500	105.5				
38	2453.307	33.827	180.5				
39	2036.704	36.946	79.1				