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DIOXIDE FROM 800 TO 5500 CM-1 Interim  
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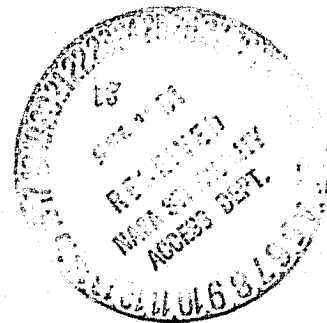
A SPECTRUM OF CARBON DIOXIDE FROM 800 to 5500 cm<sup>-1</sup>

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Abstract

An atlas of CO<sub>2</sub> lines between 800 and 5,500 cm<sup>-1</sup> obtained from long-path-length samples at 296 K is presented. Many of the line centers are marked and their positions tabulated.

## Introduction

Previous atlases in this series (1, 2) have shown spectra of low-pressure, long-path-length samples of  $N_2O$  and  $O_3$  from about 800 to beyond  $5,000\text{ cm}^{-1}$ . The path lengths and absorbing gas pressures of these samples were chosen so that the weakest line of these gases which would be seen in extremely long atmospheric paths would also appear in these laboratory spectra.

The vertical column amount of  $CO_2$  in the atmosphere is about  $2.6\text{ atm}\cdot\text{m}$ . This is one thousand times larger than the corresponding amounts of  $O_3$  and  $N_2O$  and path lengths of several hundred kilometers would be required to provide  $CO_2$  spectra comparable to those of the previous atlases. Since this is not possible, the required large  $CO_2$  absorber amounts can only be obtained by increasing the sample pressure. This pressure must be chosen to allow sufficient  $CO_2$  in the path for the weakest  $CO_2$  lines to be seen in spectra of  $0.05\text{ cm}^{-1}$  resolution and yet be sufficiently low to minimize line broadening and blending.

In this atlas, the spectrum of a sample of 177 torr  $CO_2$  at 296 K in a path length of 476 m, taken with an InSb detector from 1,800 to  $5,500\text{ cm}^{-1}$  is shown. The corresponding spectrum of this sample at lower frequencies, obtained with a HgCdTe detector is not available. Instead, a spectrum of a sample containing 177 torr  $CO_2$  and 50 torr  $N_2$  at 296 K in a 476 m path is shown from 800 to  $1,900\text{ cm}^{-1}$ . The total amount of  $CO_2$  in these paths is  $110\text{ atm}\cdot\text{m}$ . This is equivalent to the amount of  $CO_2$  in about 40 air masses. Although the extreme atmospheric path is about 80 air masses, all but the weakest  $CO_2$  lines, expected to be seen in atmospheric spectra, should be visible in this atlas, except when they are hidden by overlapping, stronger  $CO_2$  lines.

Because of the large  $CO_2$  amounts and the high sample pressures the spectral regions 2,220-2,430, 3,500-3,760, 4,940-5,000, and 5,080-5,120  $\text{cm}^{-1}$  are completely opaque. As shown in the tabulation by Rothman and Young (3) these regions contain both strong bands and large numbers of weaker bands. These tabulations are based on the results of many groups since the spectrum of  $CO_2$  has been extensively studied. Many of the features in these opaque regions of the atlas have been described elsewhere.

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## Atlas Description

This atlas was prepared by the previously described methods (1, 2) The spectra were obtained by using boxcar apodization to maximize the spectral resolution. Unlike the previous spectra there is little evidence of "ringing" in the wings of the lines primarily because the line widths are greater than the resolution. Both spectra show line asymmetry and baseline drifts in regions of strong absorption. This is evidence of incomplete phase correction and is partly caused by the extended opaque regions in the spectra. As in previous spectra, the appearance has been improved by smoothing and interpolation.

Most of the observed absorption is due to  $\text{CO}_2$ . There are some lines of  $\text{CH}_4$  belonging to the strong bands centered near 1,305 and 3,015  $\text{cm}^{-1}$ . The  $\text{CH}_4$  is believed to be an impurity in the  $\text{CO}_2$ . Lines of water vapor present in the box enclosing the Nicolet Fourier Transform Spectrometer are also present near 1,600, 3,200, 3,900 and 5,400  $\text{cm}^{-1}$ . The positions of isolated  $\text{H}_2\text{O}$  lines with peak absorptances between 10 and 90% in the InSb spectrum were compared with the line positions given by Camy-Peyret and Flaud (4) and Pugh (5). These differences were used to calibrate the InSb spectrum. After calibration, the  $\text{H}_2\text{O}$  line positions given in this atlas were compared with the standards and the results are shown in Table I. The typical differences in the positions of individual lines varied from about 0.005  $\text{cm}^{-1}$  at 1,900  $\text{cm}^{-1}$  to 0.010  $\text{cm}^{-1}$  at 5,300  $\text{cm}^{-1}$ . This increase is due in part to the decreasing signal to noise ratio at higher frequencies.

The HgCdTe spectrum was then calibrated with respect to the InSb spectrum. Although only a portion of the HgCdTe spectrum is shown in this atlas it extends to beyond 5,000  $\text{cm}^{-1}$ .

After calibration of the HgCdTe the differences between the positions of lines in this spectrum and the InSb spectrum were compared in several spectral regions. The results are shown in Table II. The increase in the standard deviation of the mean difference with increasing frequency is caused primarily by the decreasing signal to noise ratio in both spectra. At low frequencies, the standard deviation of the mean differences reflects in part the greater consistency obtained when two spectra taken on the same instrument are compared.

## References

1. R.L. Hawkins, R.J. Nordstrom, and J.H. Shaw, "The Spectrum of  $N_2O$  between 800 and 5,200  $cm^{-1}$ ". Interim Technical Report prepared under NASA Grant No. NSG-7479 with The Ohio State University, Columbus, Ohio 43210 (1980).
2. E. Damon, R.L. Hawkins, and J.H. Shaw, "A Spectrum of Ozone from 760 to 5,800  $cm^{-1}$ ". Interim Technical Report, prepared under NASA Grant No. NSG-7479 with The Ohio State University, Columbus, Ohio 43210 (1980).
3. L.S. Rothman and L.D.G. Young, "The Infrared Energy Levels and Intensities of Carbon Dioxide-11". JQSRT, 25, 505 (1981).
4. C. Camy-Peyret and J.M. Flaud, "Line Positions and intensities in the  $\nu_2$  band of  $H_2^{16}O$ ", Mol. Phys., 32, 523 (1976).
5. L.A. Pugh, dissertation, The Ohio State University (1972).

Table 1. The mean differences between the positions of isolated narrow H<sub>2</sub>O lines in the InSb spectrum shown in this atlas and the positions given by Camy-Peyret and Flaud and by Pugh.

Spectral Region (cm <sup>-1</sup> )	Source of H <sub>2</sub> O line Positions	No. of lines measured	Mean difference-in Position Atlas-Standard (cm <sup>-1</sup> )	Standard Deviation of the mean (cm <sup>-1</sup> )
1800-2000	a	14	-0.0014	0.0014
3000-3400	b	40	+0.0001	0.0012
3800-4050	b	57	+0.0012	0.0011
5200-5500	b	67	-0.0014	0.0012

a Camy-Peyret and Flaud (Ref 4)

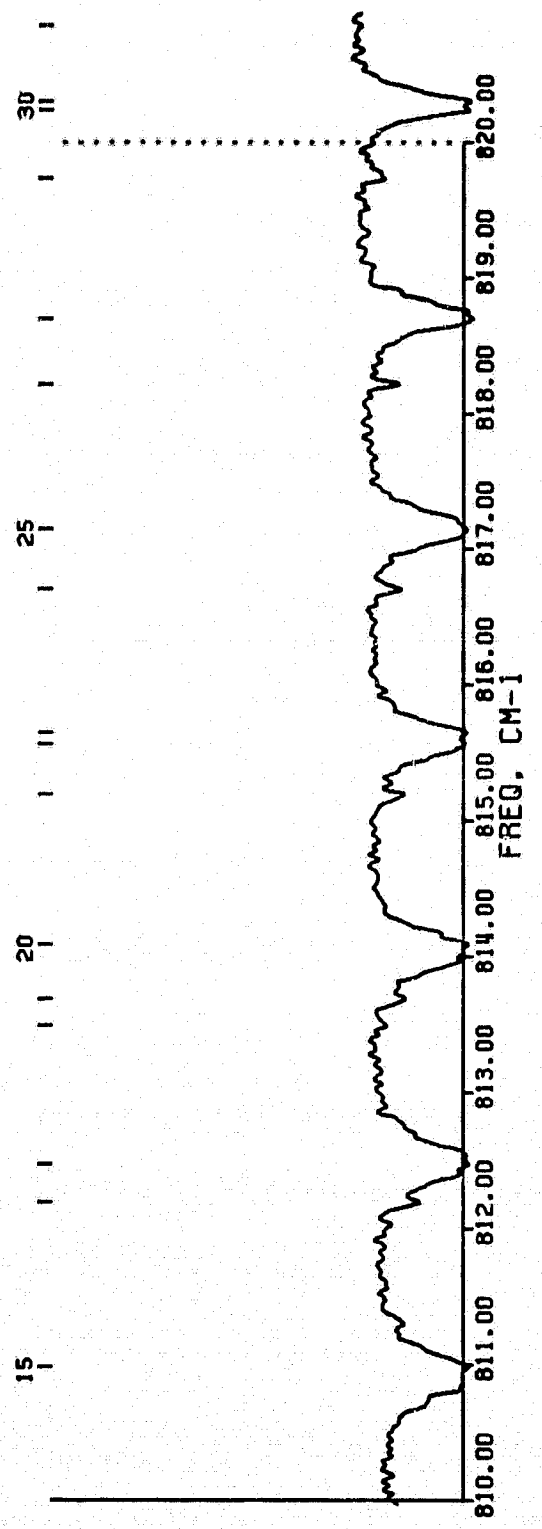
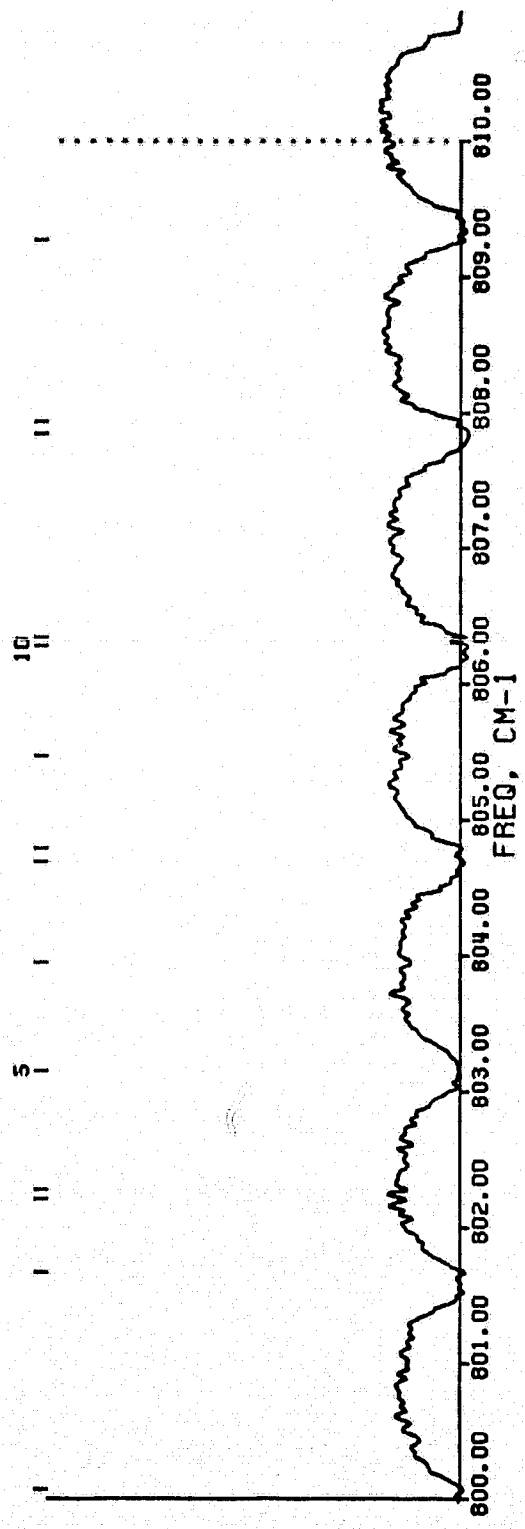
b Pugh (Ref 5)

Table II. The mean differences between the positions of lines in the InSb and HgCdTe spectra after calibration of both spectra.

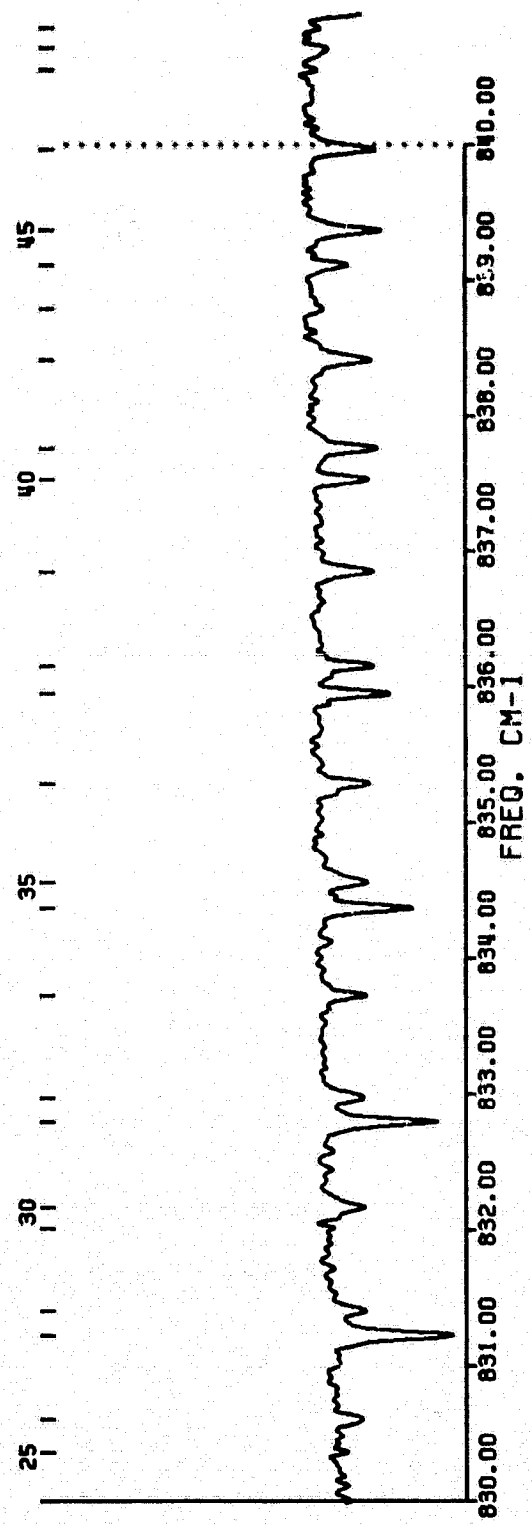
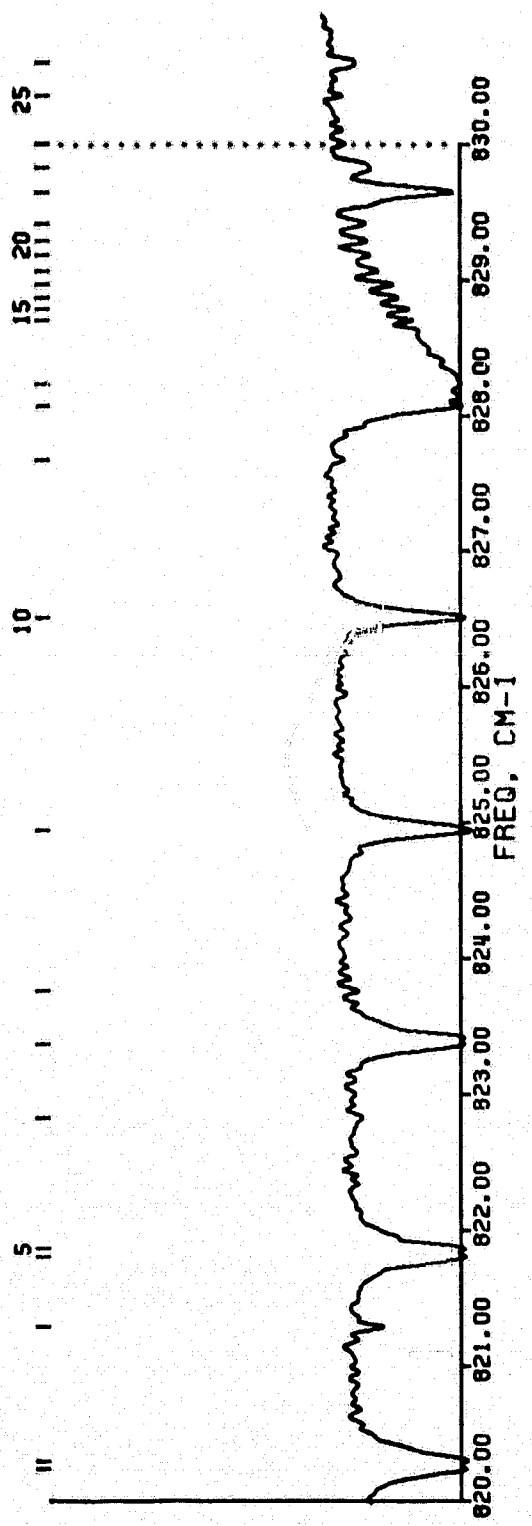
Spectral Region (cm <sup>-1</sup> )	No. of lines compared	Mean differences (cm <sup>-1</sup> )	Standard Deviation of mean difference (cm <sup>-1</sup> )
1900	29	-0.0004	0.0002
2575	106	-0.0003	0.0002
3200	52	+0.0003	0.0004
3350	57	+0.0009	0.0004
4630	46	+0.0058	0.0010
5300	36	+0.0046	0.0013



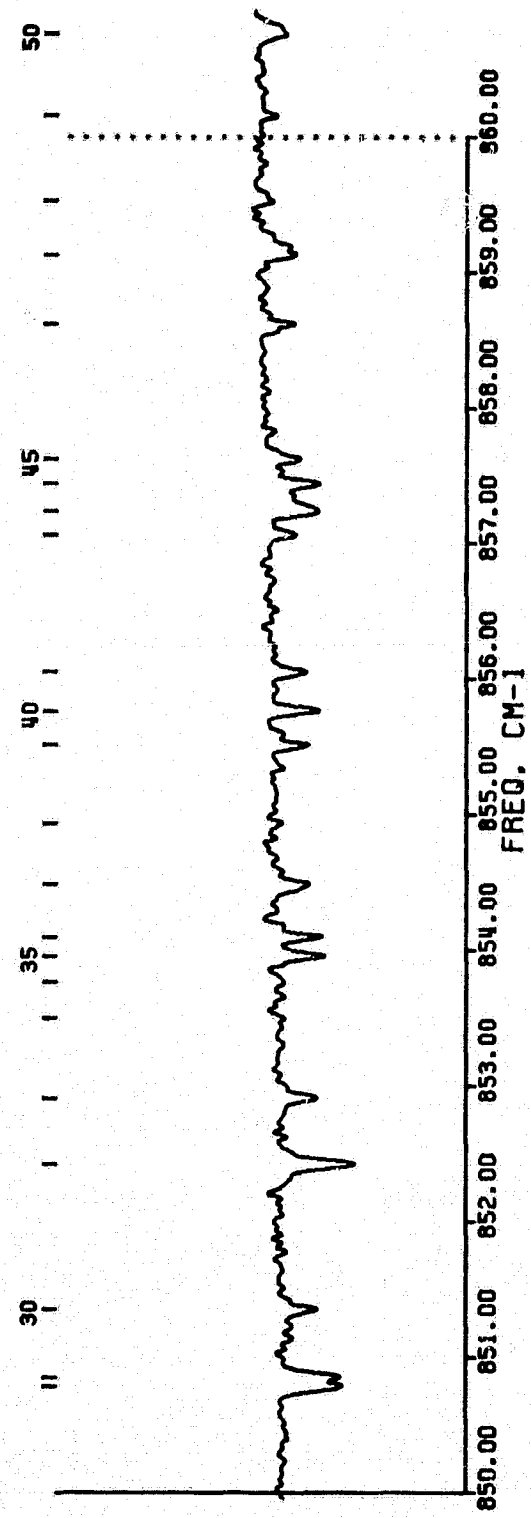
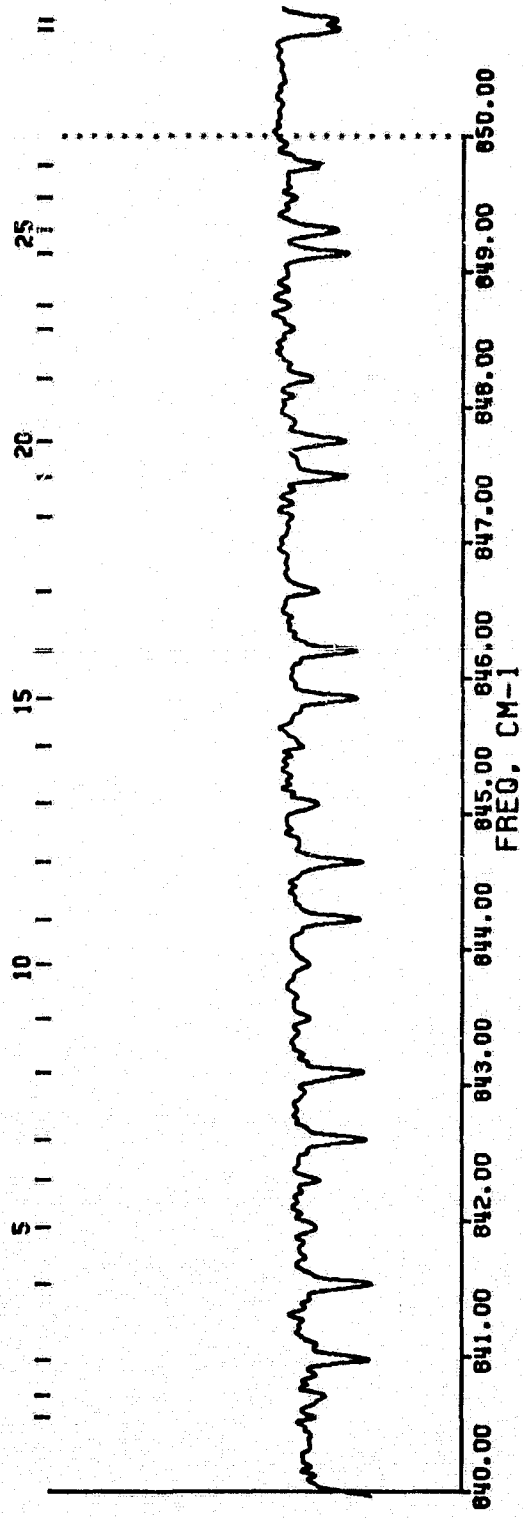
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803.952	804.689	804.789	805.471	806.279	10
806.344	807.841	807.936	809.268	810.981	15
812.191	812.472	813.494	813.693	814.089	20
815.194	815.568	815.653	816.706	817.149	25
818.216	818.697	819.733	820.239	820.299	30
820.860					35



820.239	820.299	821.285	821.804	821.861	5
822.827	823.373	823.761	824.945	826.511	10
827.678	828.072	828.232	828.703	828.788	15
828.871	828.968	829.068	829.185	829.291	20
829.419	829.649	829.828	830.006	830.360	25
830.605	831.221	831.399	832.013	832.165	30
832.796	832.973	833.728	834.368	834.560	35
835.289	835.950	836.154	836.851	837.528	40
837.759	838.409	838.789	839.113	839.366	45
839.965	840.550	840.709	840.860		50

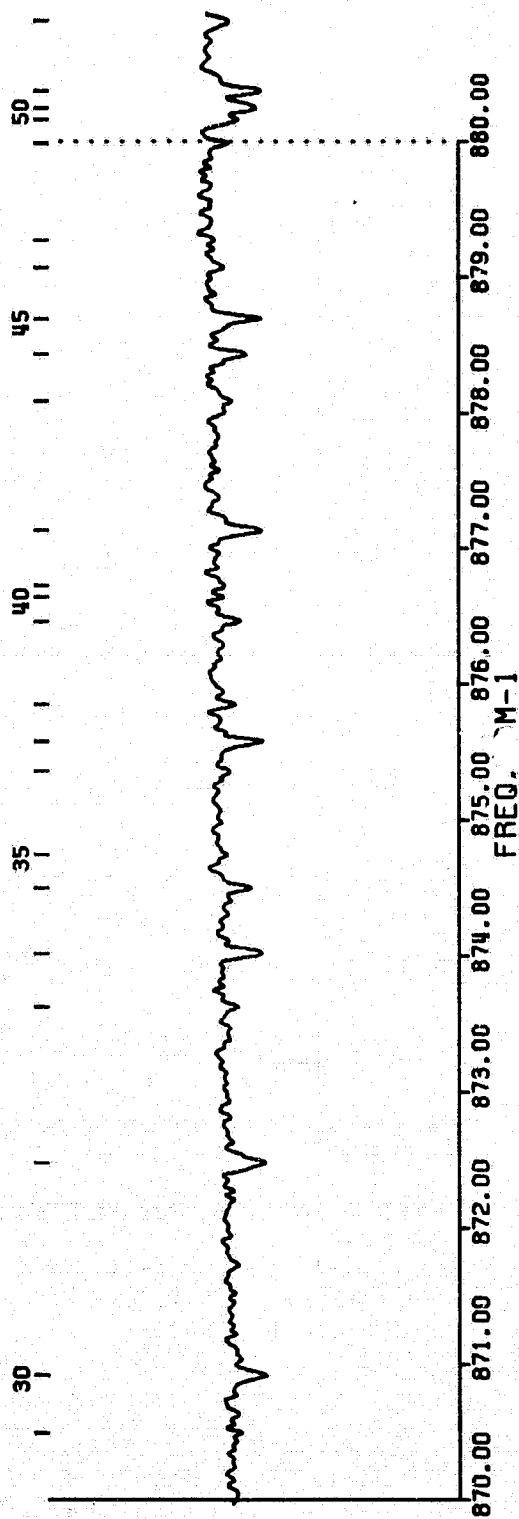
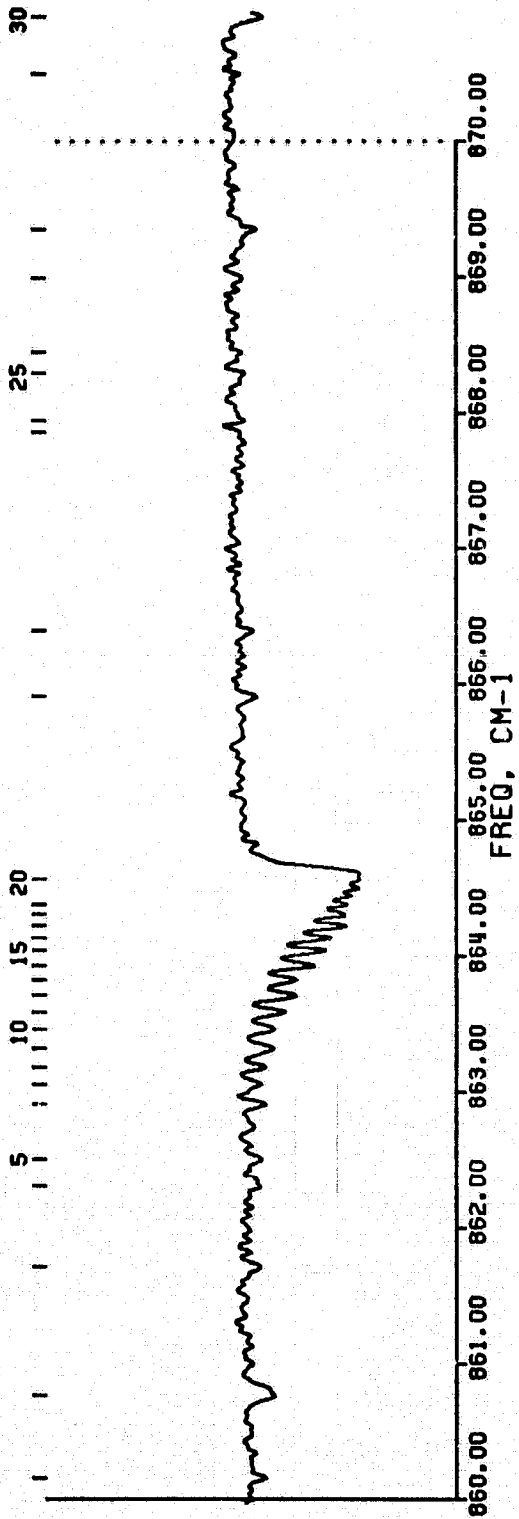


840.550	840.709	840.971	841.530	841.946	5
842.296	842.593	843.091	843.491	843.891	10
844.219	844.641	845.076	845.496	845.850	15
846.200	846.641	847.183	847.481	847.746	20
848.208	848.573	848.747	849.131	849.304	25
849.547	849.784	850.785	850.852	851.354	30
852.423	852.911	853.499	853.766	853.958	35
854.101	854.408	854.941	855.516	855.766	40
856.054	857.066	857.239	857.441	857.623	45
858.622	859.132	859.528	860.158	860.764	50



860.159	860.764	861.710	862.303	862.502	5
862.908	863.056	863.183	863.319	863.463	10
863.589	863.710	863.827	863.929	864.041	15
864.134	864.222	864.304	864.379	864.568	20
865.910	866.394	867.854	867.943	868.291	25
868.444	868.989	869.349	870.494	870.917	30
872.482	873.629	874.024	874.504	874.749	35
875.361	875.583	875.854	876.467	876.644	40
876.729	877.133	878.088	878.432	878.693	45
879.071	879.274	879.985	880.161	880.244	50
880.373	880.887				55

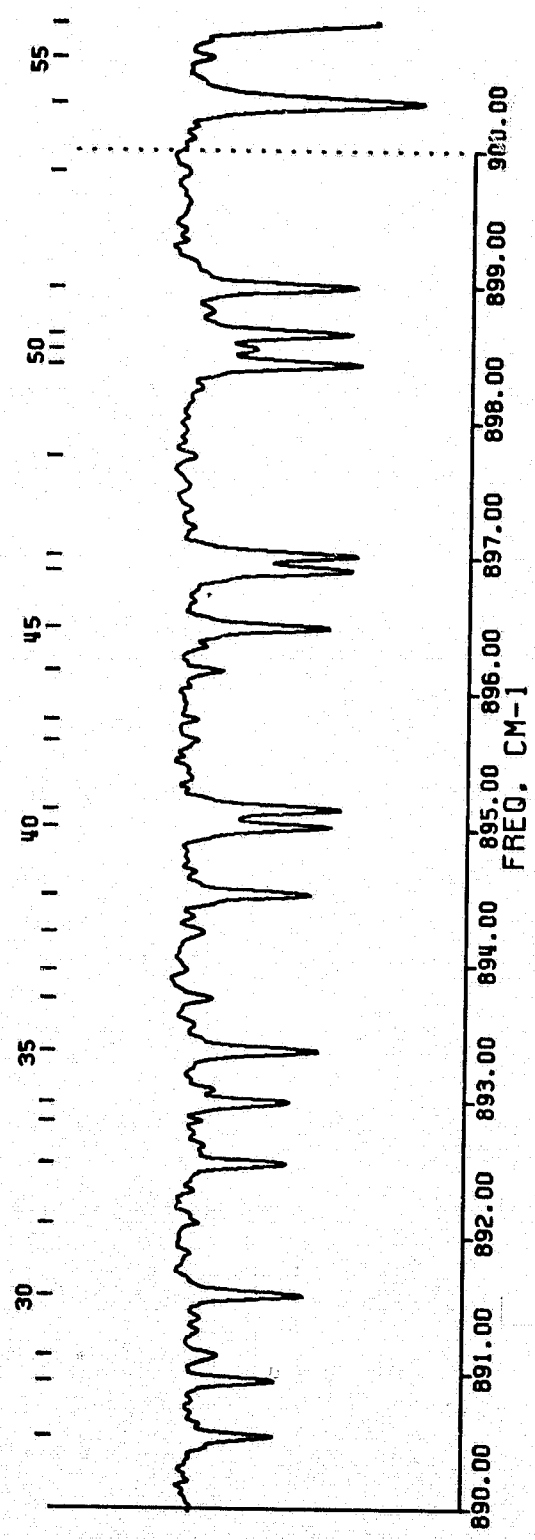
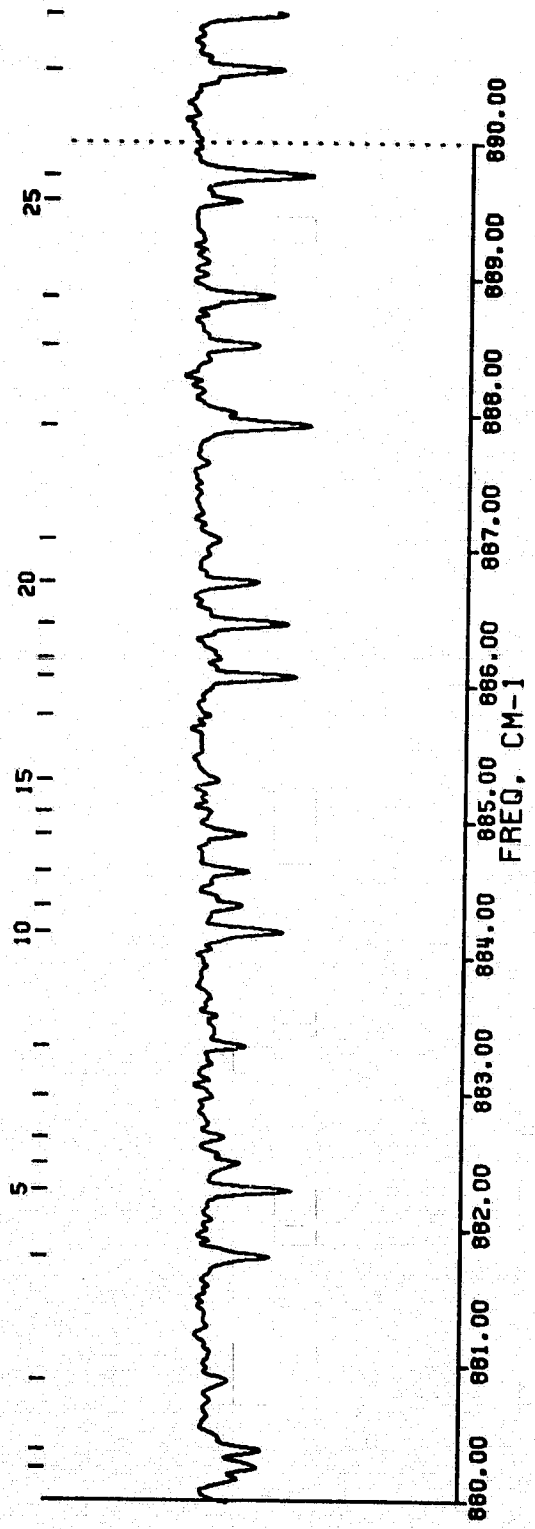
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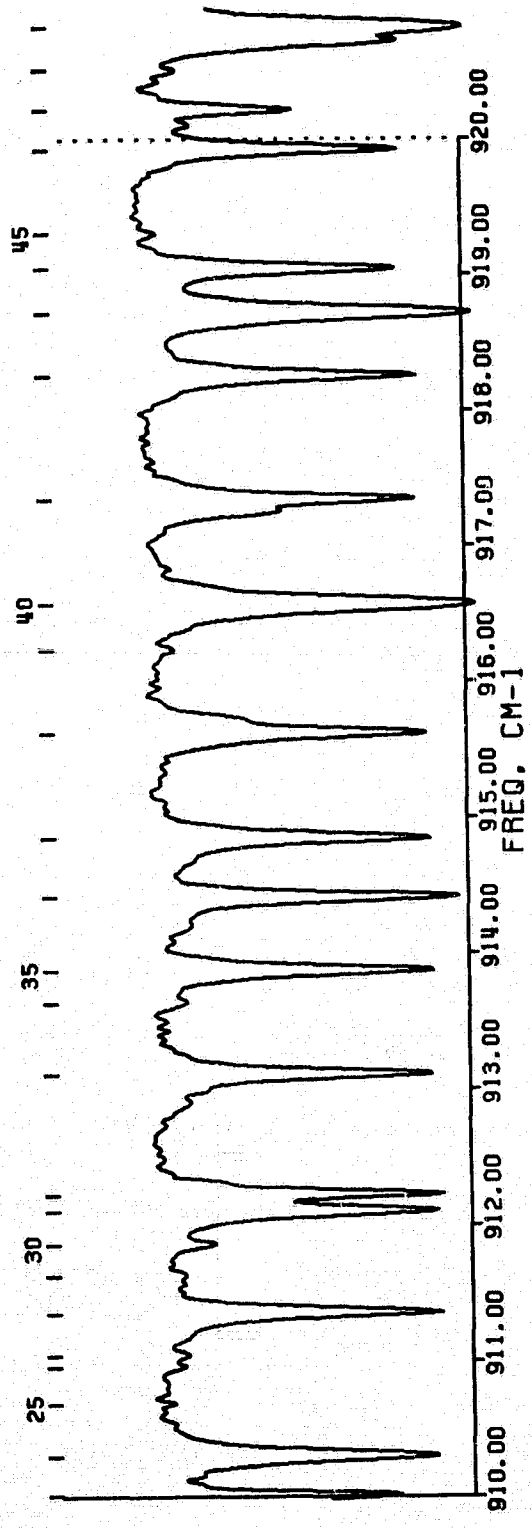
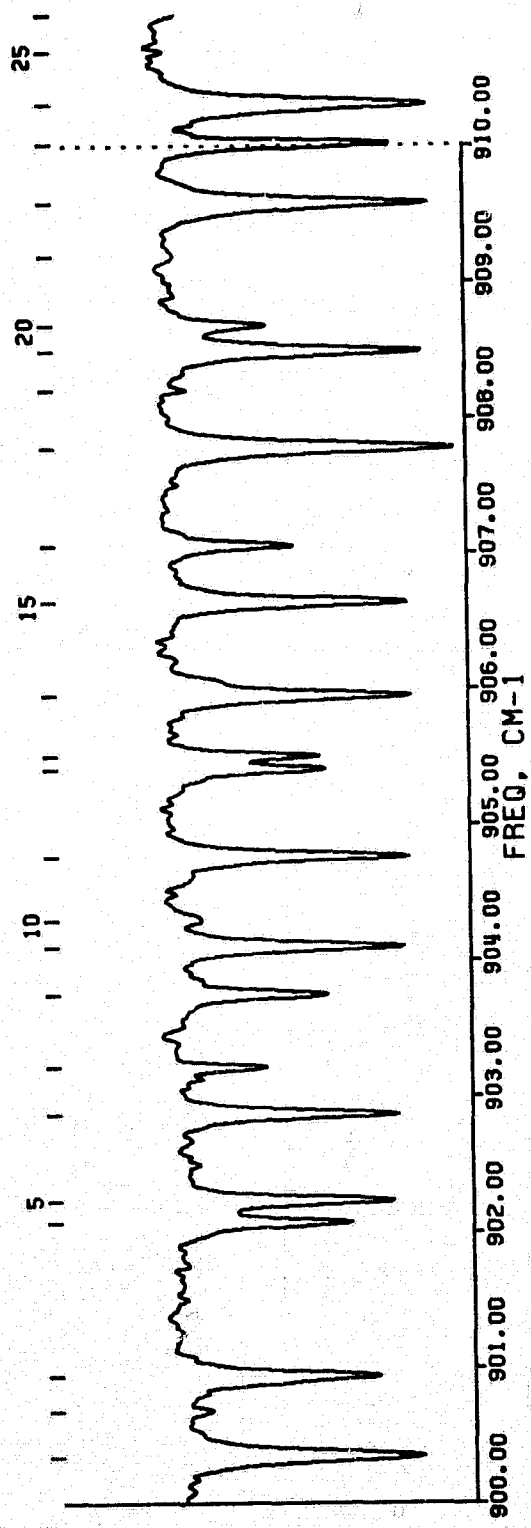
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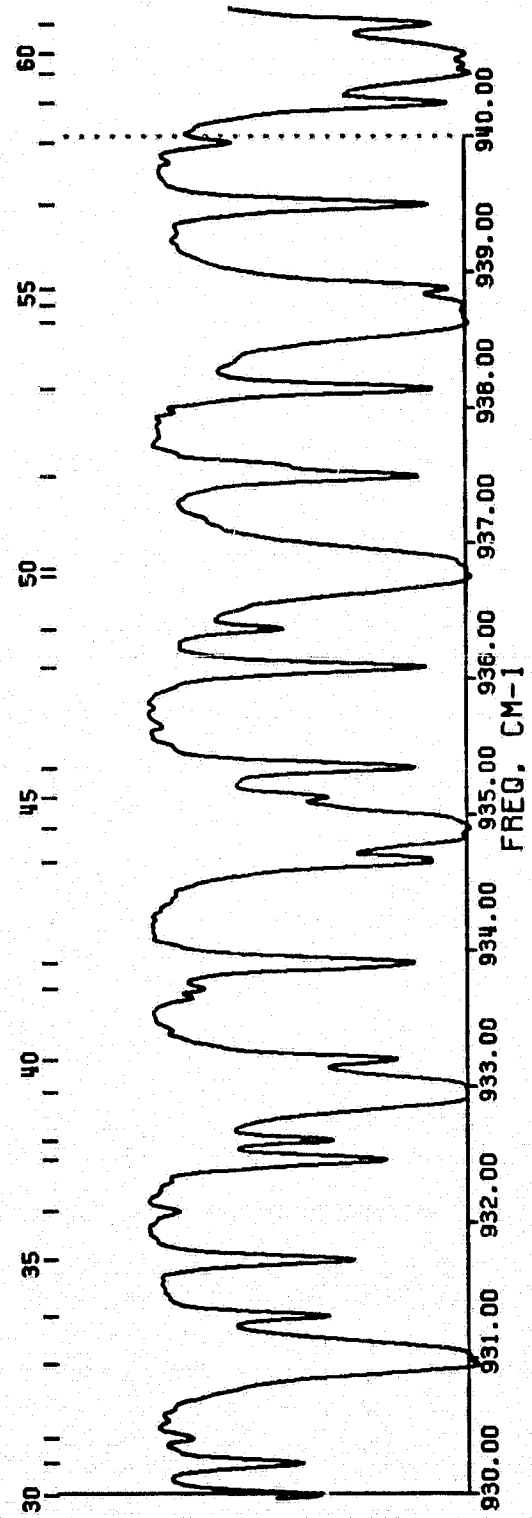
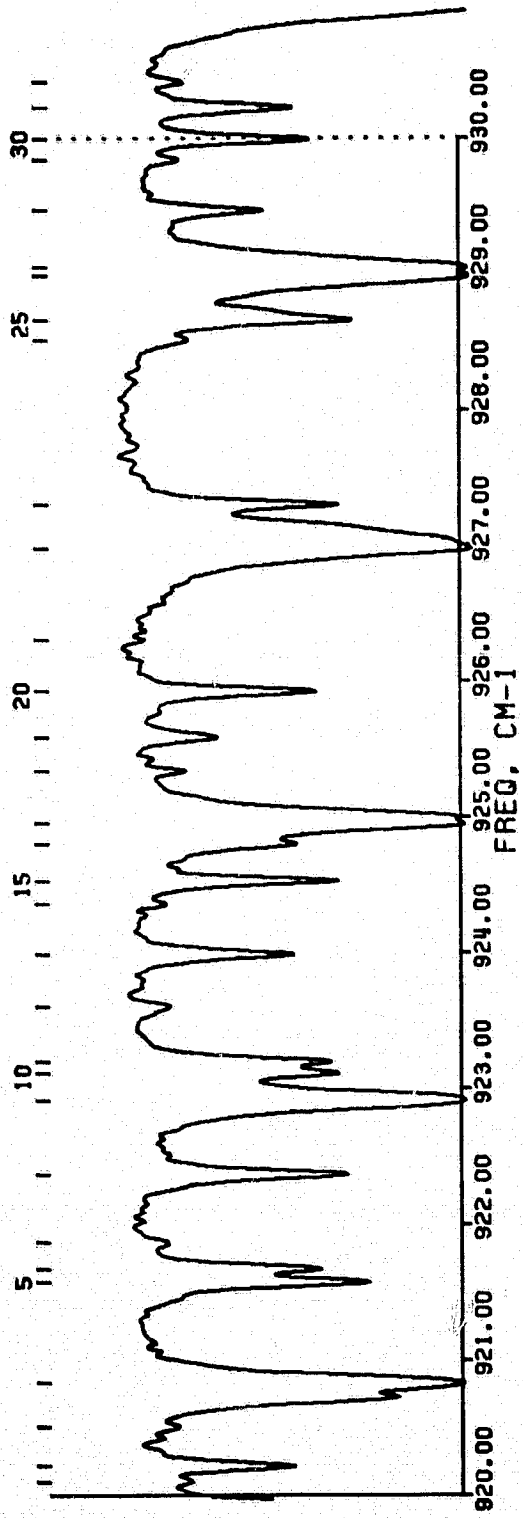
880.243	880.371	880.884	881.794	882.282	5
882.483	882.673	882.976	883.341	884.183	10
884.380	884.630	884.903	885.069	885.299	15
885.776	886.063	886.199	886.451	886.760	20
887.070	887.915	888.501	888.861	889.569	25
889.754	890.532	890.941	891.128	891.570	30
892.104	892.540	892.853	892.993	893.369	35
893.755	893.968	894.243	894.521	895.021	40
895.148	895.654	895.806	896.166	896.483	45
896.908	897.014	897.746	898.423	898.536	50
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900.938					60



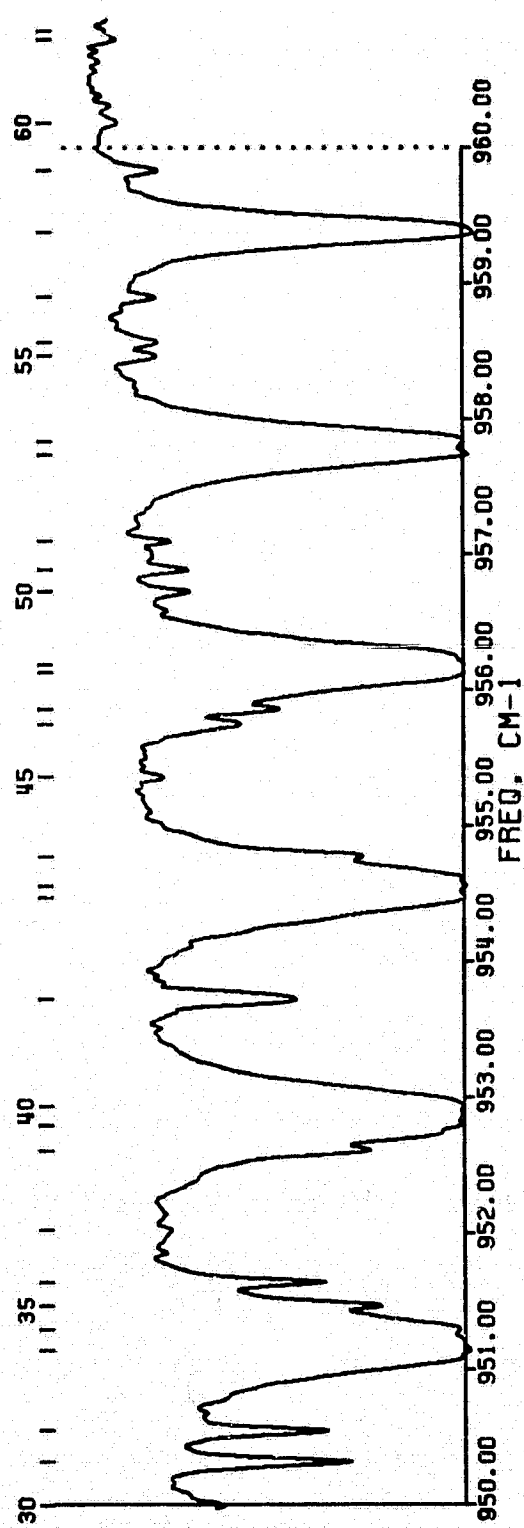
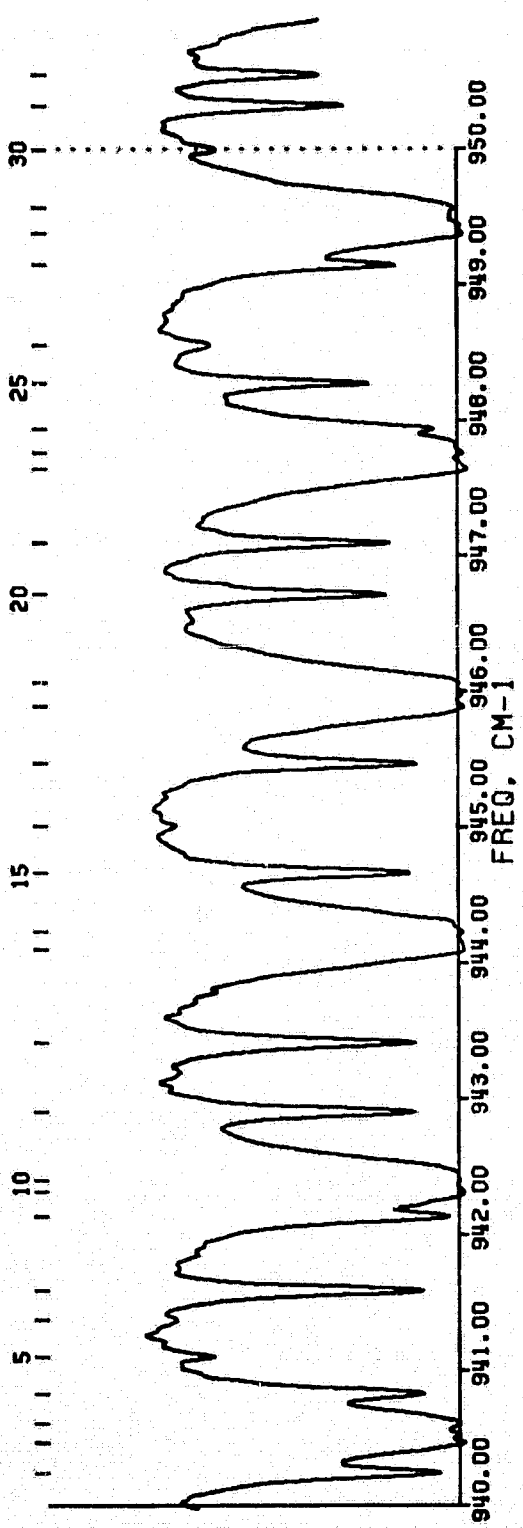
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907.052	907.774	908.197	908.487	908.674	20
909.186	909.578	910.014	910.304	910.691	25
910.963	911.048	911.356	911.634	911.863	30
912.106	912.228	913.114	913.646	913.879	35
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920.103	920.216	920.510	920.827	921.571	5
921.669	921.865	922.364	922.911	923.109	10
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924.800	924.949	925.336	925.584	925.923	20
926.301	926.978	927.298	928.510	928.658	25
928.981	929.045	929.465	929.839	929.989	30
930.223	930.410	930.951	931.306	931.722	35
932.082	932.458	932.601	932.955	933.197	40
933.721	933.909	934.653	934.906	935.128	45
935.347	936.088	936.368	936.756	936.813	50
937.493	938.138	938.624	938.754	938.874	55
939.494	939.949	940.244	940.464	940.608	60
940.825					65



940.244	940.464	940.608	940.824	941.098	5
941.366	941.584	942.132	942.313	942.399	10
942.901	943.412	944.098	944.228	944.665	15
945.010	945.466	945.889	946.063	946.714	20
947.094	947.641	947.760	947.933	948.269	25
948.551	949.143	949.373	949.563	949.993	30
950.317	950.545	951.138	951.291	951.464	35
951.640	952.026	952.610	952.798	952.935	40
953.726	954.474	954.561	954.775	955.361	45
955.753	955.861	956.134	956.188	956.729	50
956.889	957.098	957.741	957.836	958.464	55
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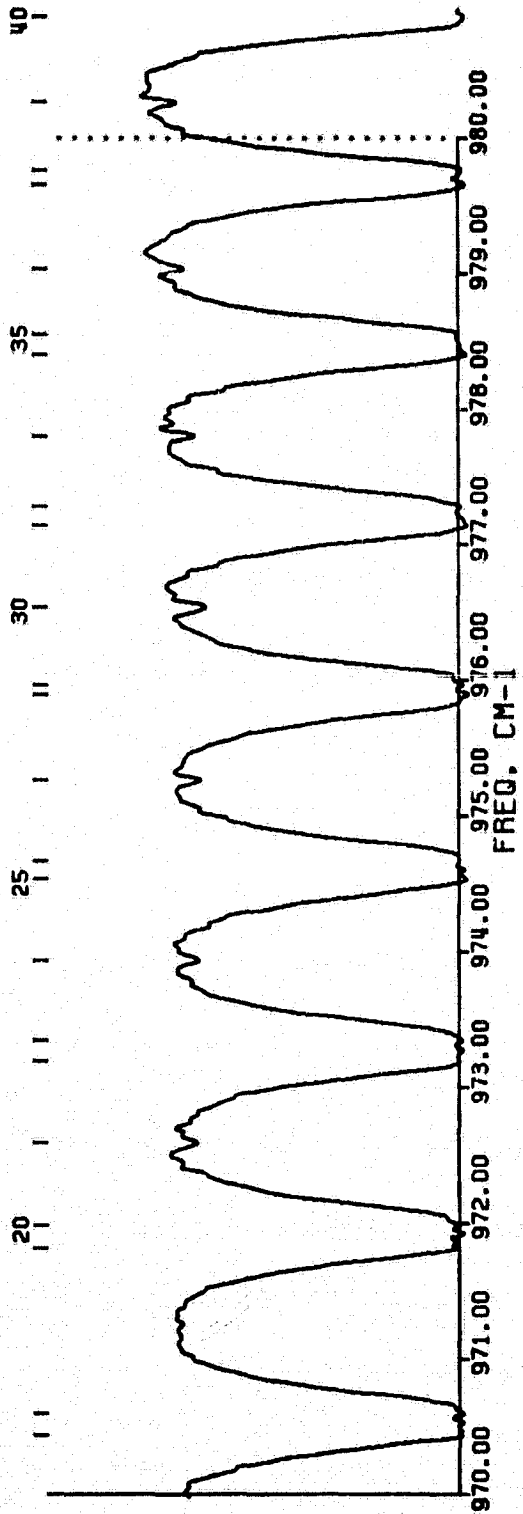
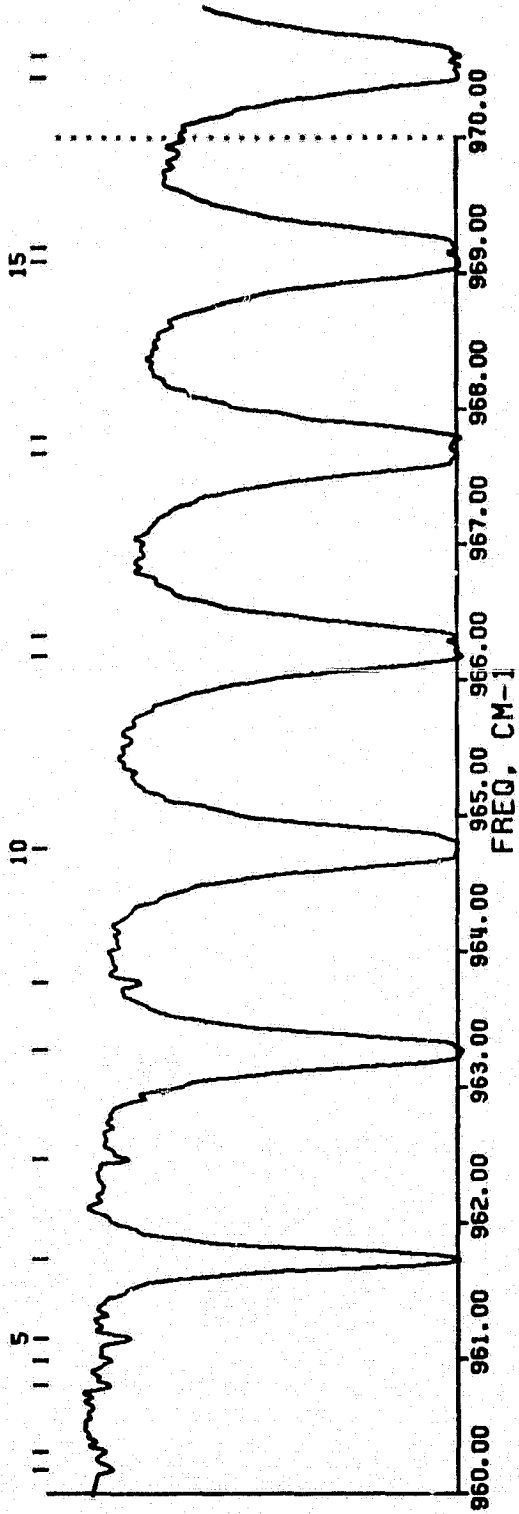


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960.181	960.314	960.797	960.983	961.144	5
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966.178	966.321	967.666	967.788	969.085	15
969.185	970.437	970.599	971.813	971.983	20
972.589	973.193	973.346	973.938	974.536	25
974.673	975.264	975.896	975.963	976.542	30
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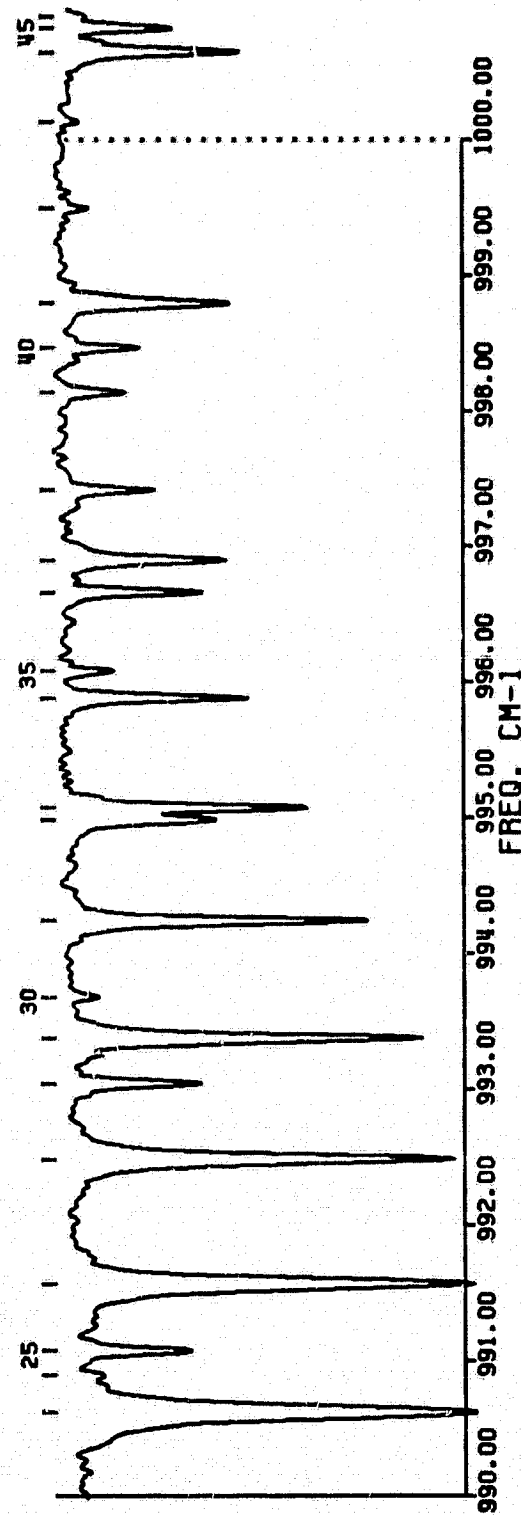
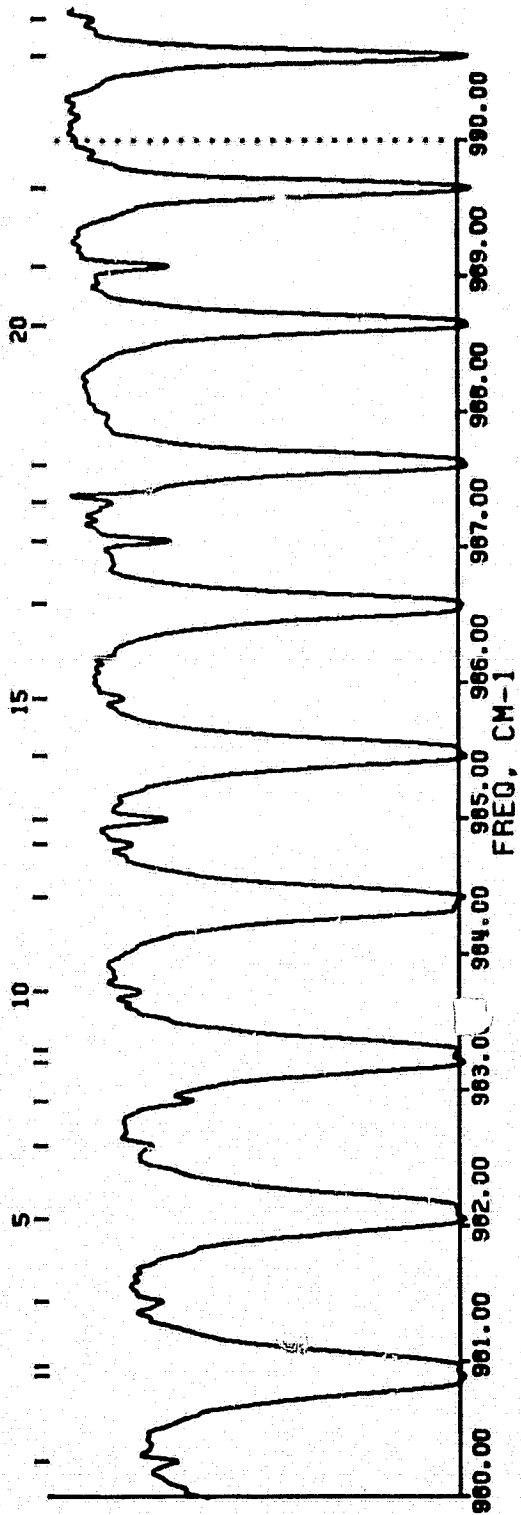
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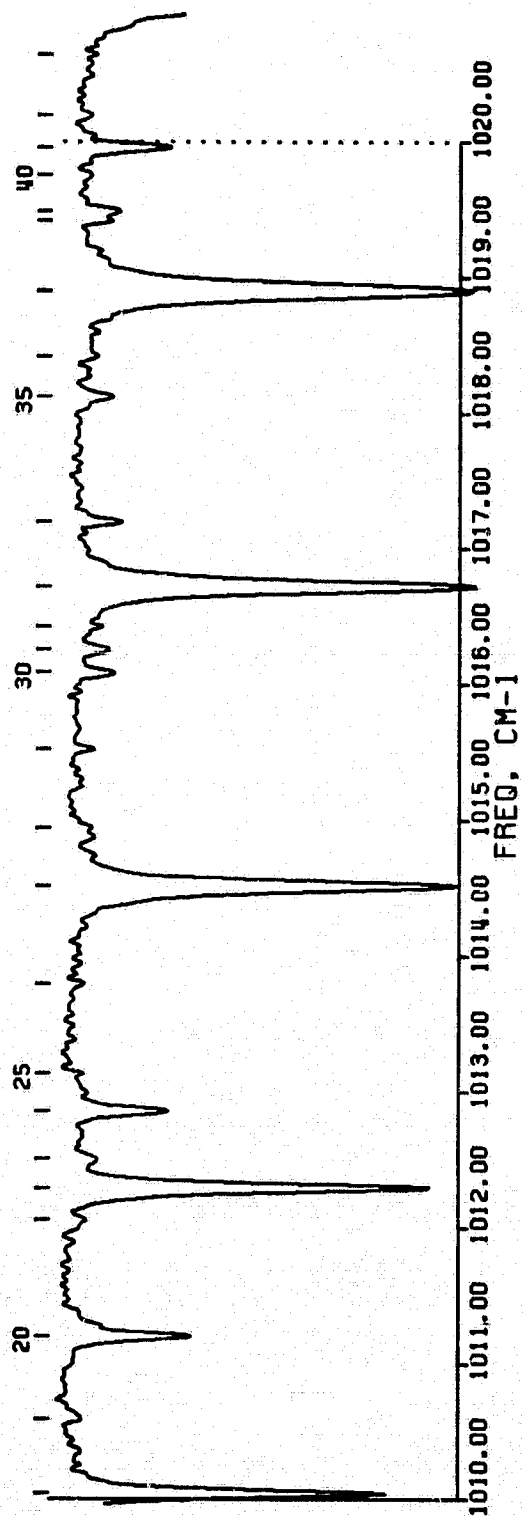
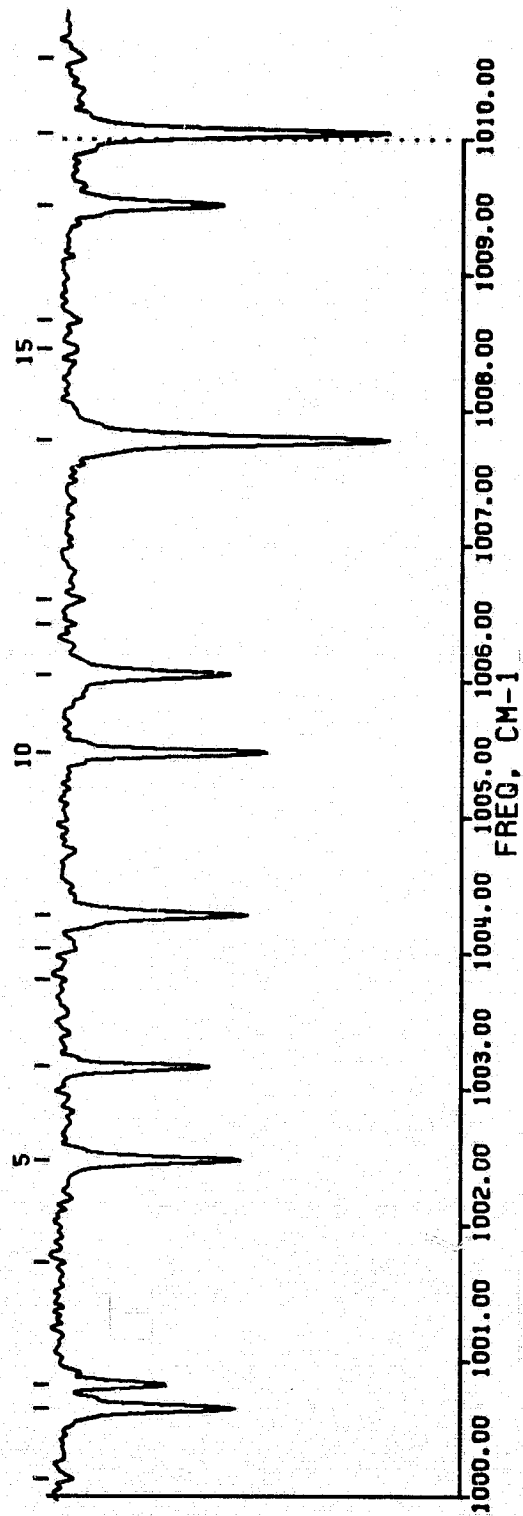
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980.260	980.893	980.961	981.438	982.047	5
982.586	982.918	983.201	983.294	983.726	10
984.421	984.813	984.994	985.460	985.886	15
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989.069	989.647	990.618	990.891	991.071	25
991.564	992.483	993.044	993.376	993.680	30
994.242	994.988	995.074	995.881	996.084	35
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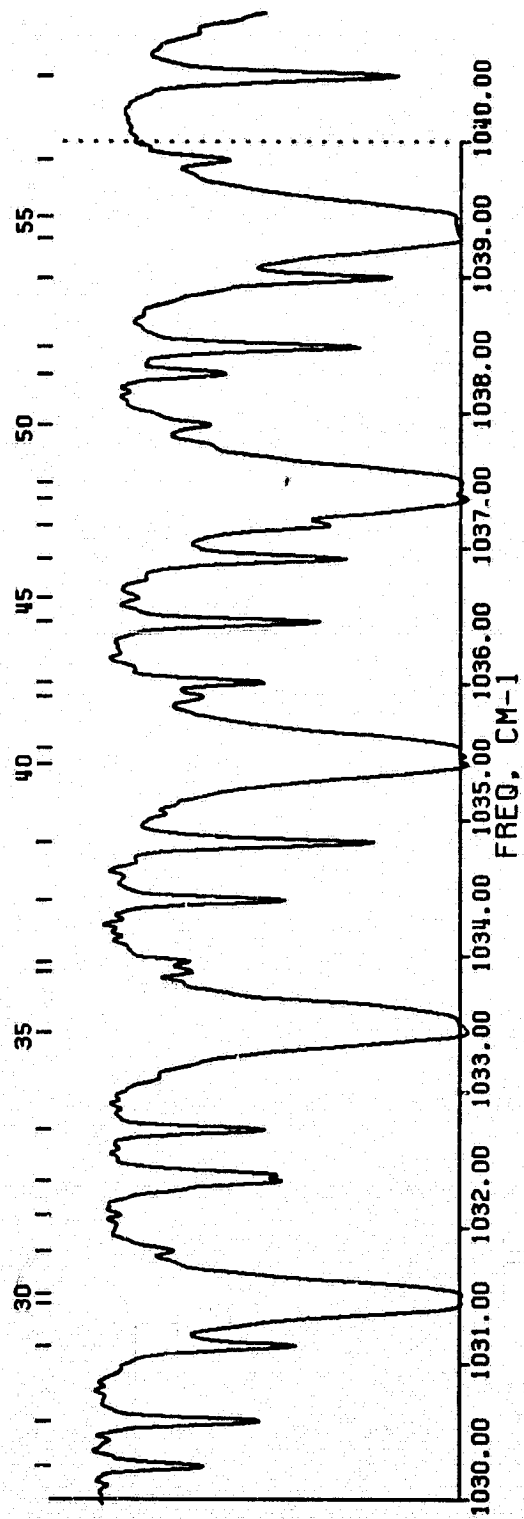
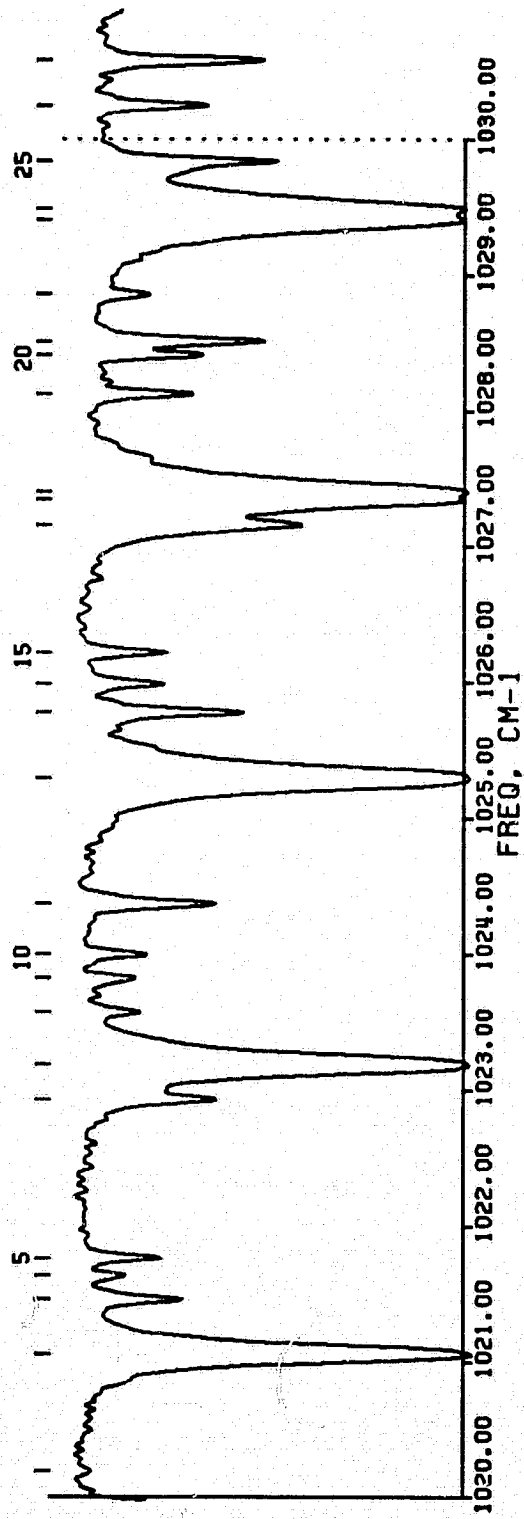


1000.132	1000.646	1000.822	1001.724	1002.476	5
1003.164	1003.801	1004.032	1004.281	1005.478	10
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1008.659	1009.511	1010.042	1010.593	1011.202	20
1012.058	1012.294	1012.506	1012.859	1013.138	25
1013.800	1014.516	1014.948	1015.524	1016.089	30
1016.259	1016.427	1016.722	1017.198	1018.119	35
1018.418	1018.898	1019.417	1019.488	1019.757	40
1019.957	1020.194	1020.646			45



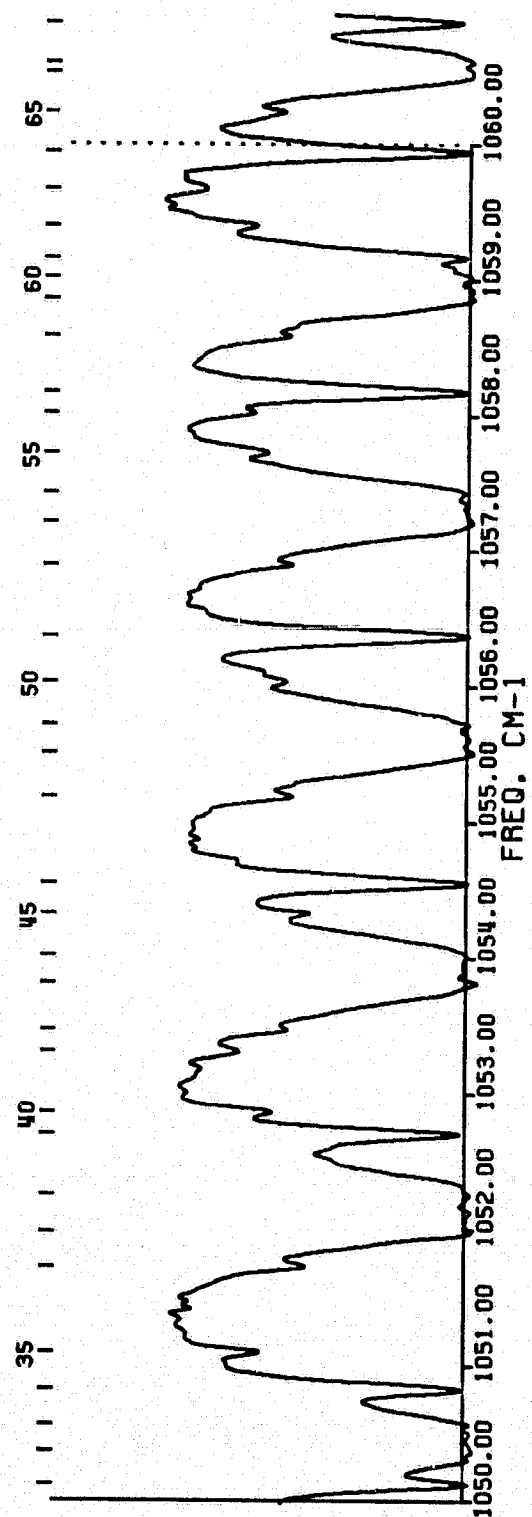
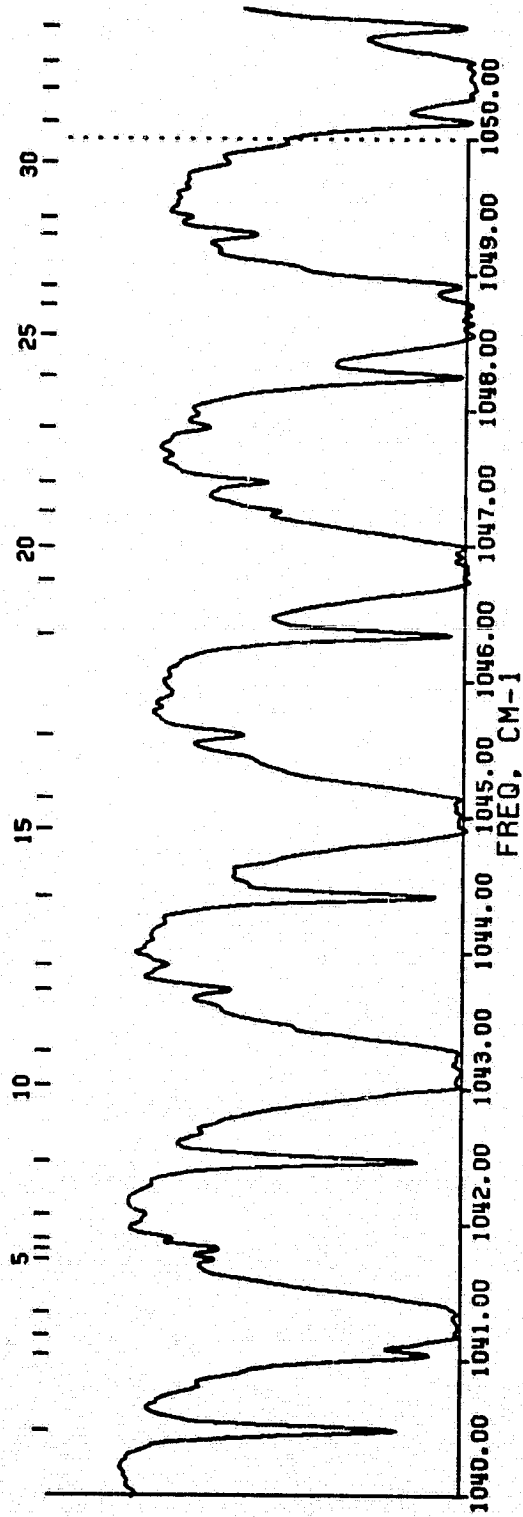
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1027.158	1027.344	1027.403	1028.123	1028.411	20
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1030.246	1030.579	1031.131	1031.444	1031.511	30
1031.831	1032.097	1032.346	1032.724	1033.439	35
1033.886	1033.960	1034.413	1034.836	1035.412	40
1035.529	1035.907	1036.014	1036.461	1036.641	45
1036.925	1037.173	1037.366	1037.489	1037.911	50
1038.287	1038.484	1038.994	1039.286	1039.443	55
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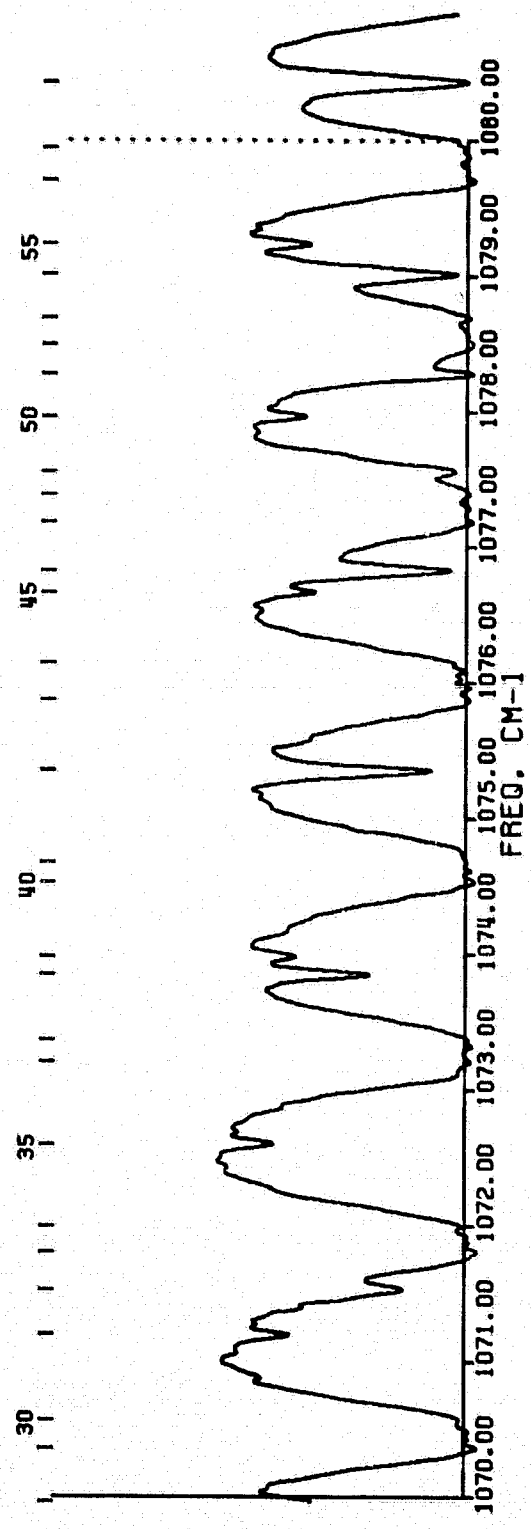
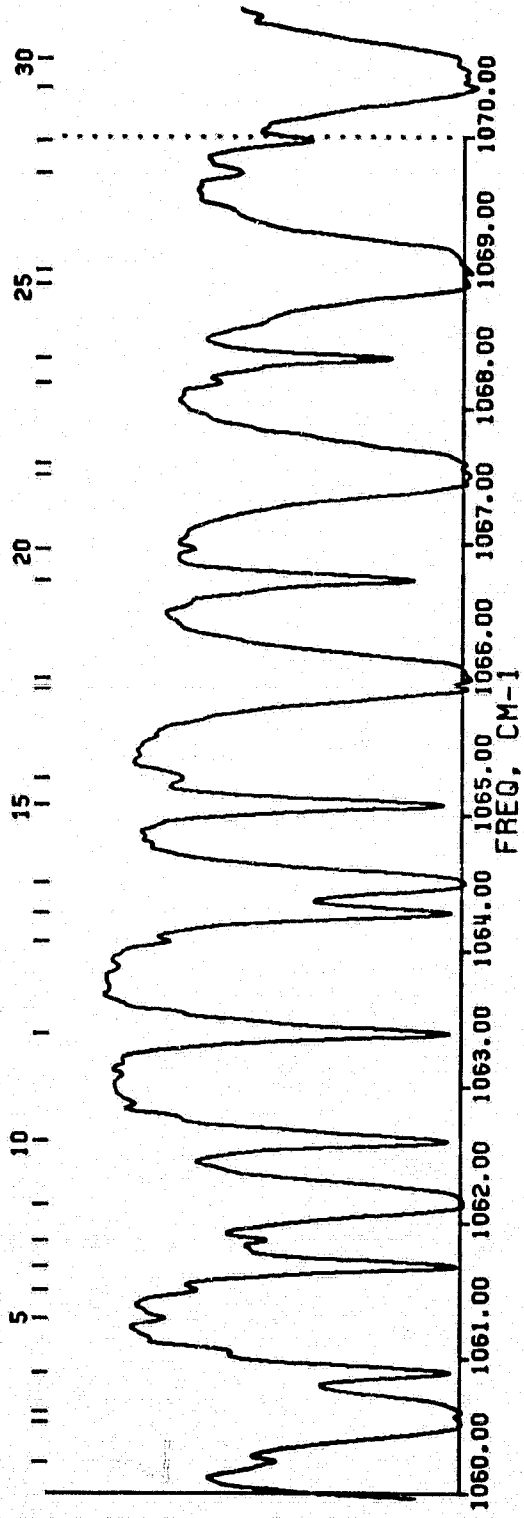


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1043.269	1043.726	1043.909	1044.415	1044.906	15
1045.138	1045.603	1046.344	1046.741	1046.989	20
1047.249	1047.465	1047.871	1048.247	1048.553	25
1048.771	1048.913	1049.293	1049.420	1049.826	30
1050.125	1050.367	1050.563	1050.821	1051.094	35
1051.727	1051.984	1052.253	1052.702	1052.864	40
1053.311	1053.471	1053.816	1054.021	1054.328	45
1054.550	1055.190	1055.510	1055.718	1056.036	50
1056.373	1056.898	1057.213	1057.427	1057.725	55
1058.020	1058.169	1058.581	1058.856	1059.017	60
1059.161	1059.395	1059.671	1059.939	1060.236	65
1060.528	1060.603	1060.893			70



23

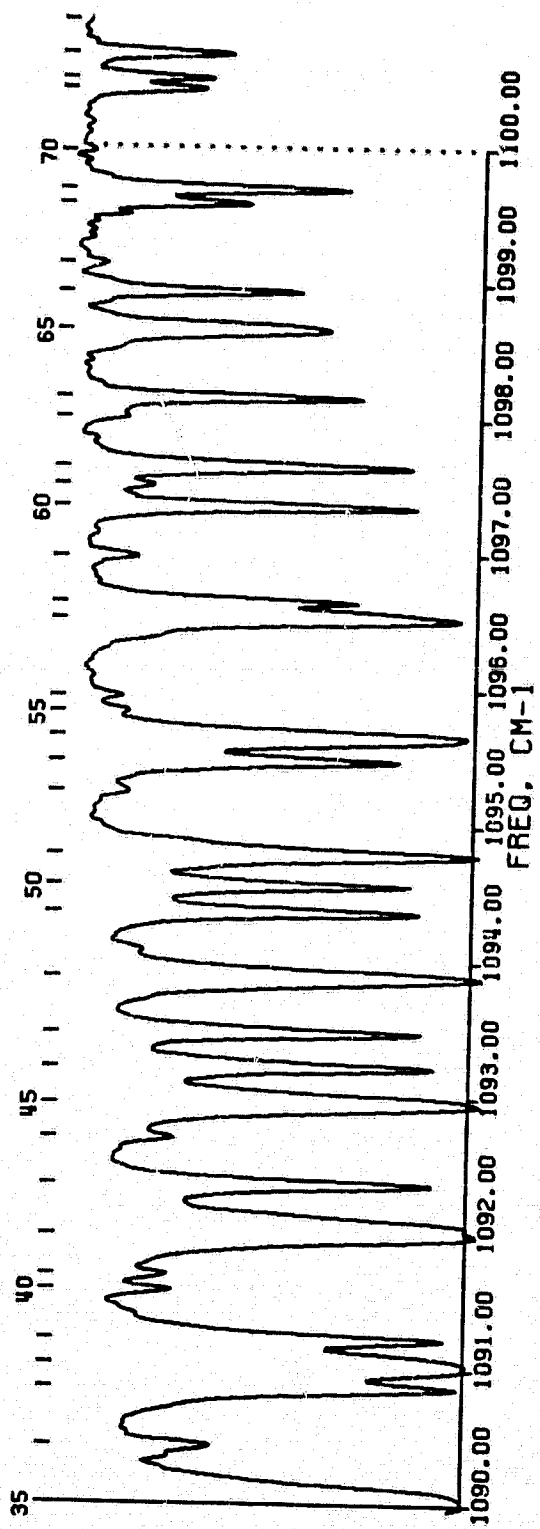
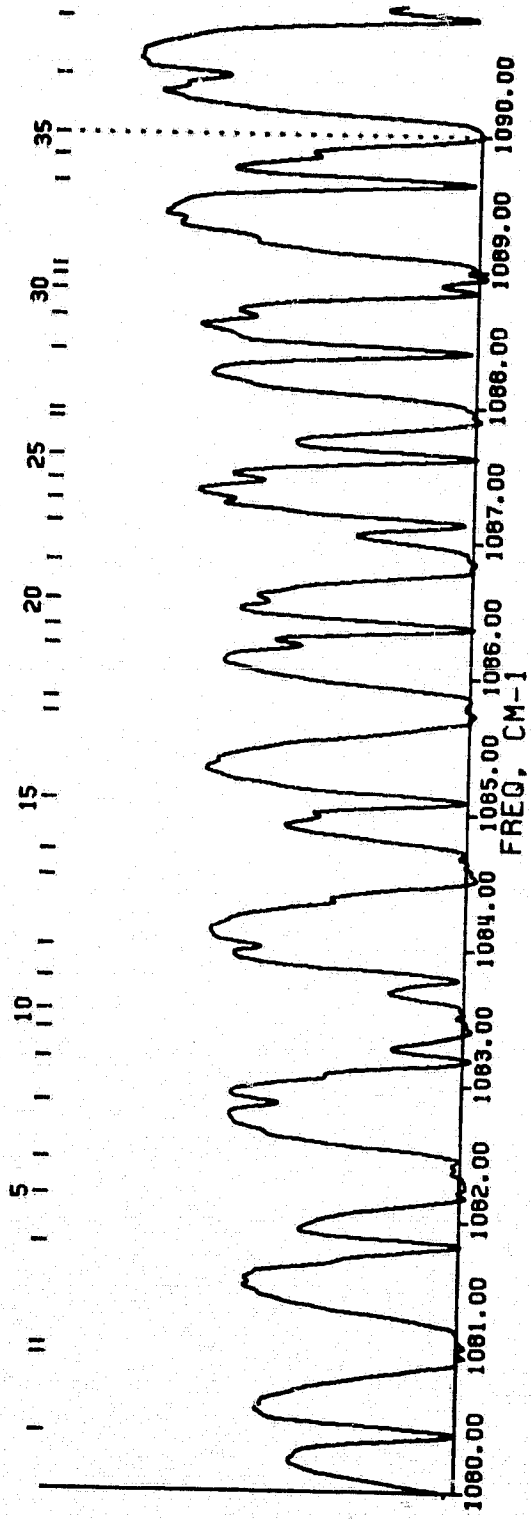
1060.236	1060.528	1060.603	1060.893	1061.293	5
1061.502	1061.678	1061.866	1062.130	1062.597	10
1063.392	1064.070	1064.280	1064.505	1065.076	15
1065.271	1065.934	1066.006	1066.733	1066.961	20
1067.506	1067.590	1068.188	1068.364	1068.911	25
1069.017	1069.734	1069.970	1070.361	1070.571	30
1071.197	1071.531	1071.805	1071.996	1072.601	35
1073.208	1073.371	1073.850	1073.984	1074.535	40
1074.678	1075.355	1075.875	1076.145	1076.668	45
1076.830	1077.181	1077.390	1077.557	1077.963	50
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1079.702	1079.943	1080.425			60



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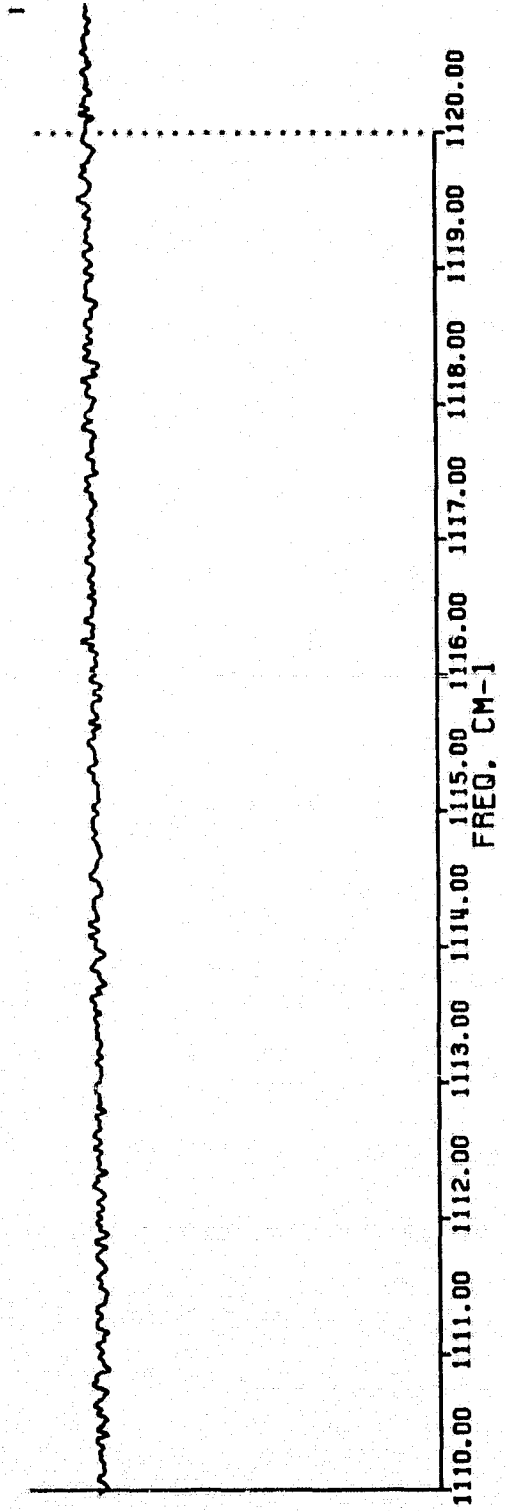
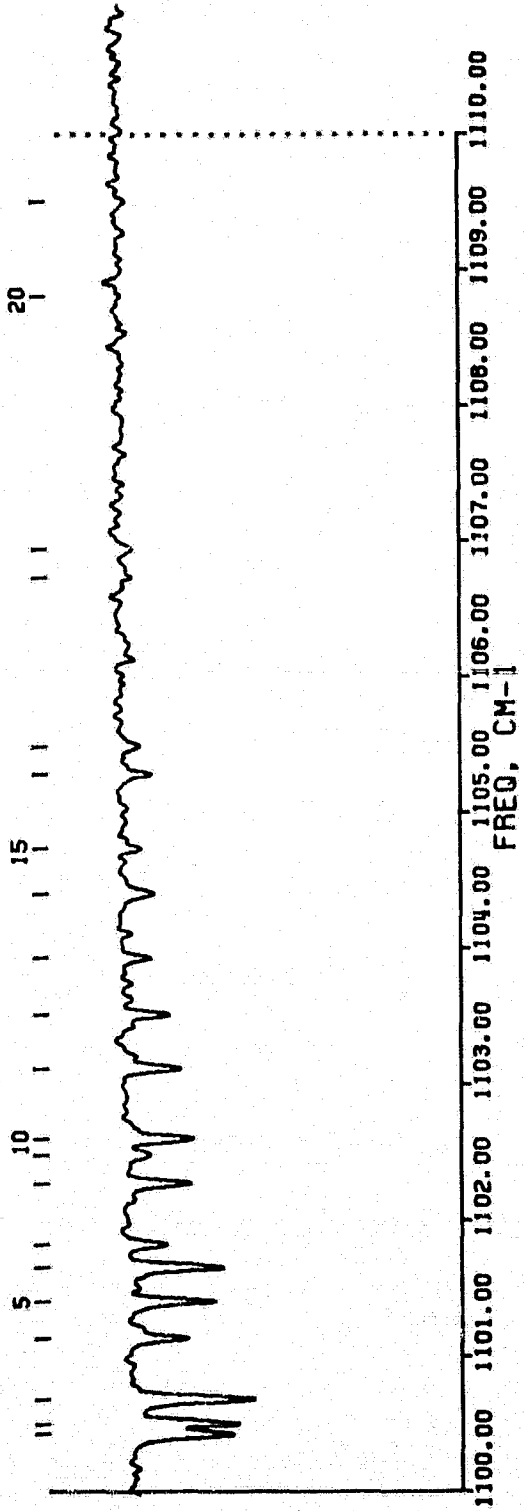
1080.425	1081.001	1081.073	1081.821	1082.180	5
1082.448	1082.865	1083.189	1083.406	1083.536	10
1083.781	1084.015	1084.523	1084.715	1085.092	15
1085.730	1085.842	1086.236	1086.369	1086.560	20
1086.848	1087.136	1087.305	1087.448	1087.625	25
1087.903	1087.960	1088.399	1088.655	1088.847	30
1088.955	1089.026	1089.643	1089.838	1089.998	35
1090.430	1090.857	1091.031	1091.214	1091.575	40
1091.693	1091.983	1092.354	1092.695	1092.946	45
1093.216	1093.470	1093.881	1094.355	1094.556	50
1094.785	1095.246	1095.471	1095.659	1095.835	55
1095.946	1096.521	1096.641	1096.976	1097.342	60
1097.505	1097.638	1098.006	1098.147	1098.647	65
1098.929	1099.136	1099.580	1099.686	1099.966	70
1100.427	1100.501	1100.681	1100.931		75

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1100.426	1100.501	1100.681	1101.130	1101.401	5
1101.653	1101.822	1102.273	1102.483	1102.601	10
1103.118	1103.513	1103.933	1104.408	1104.738	15
1105.286	1105.493	1106.737	1106.945	1108.811	20
1109.507	1120.900				25

48



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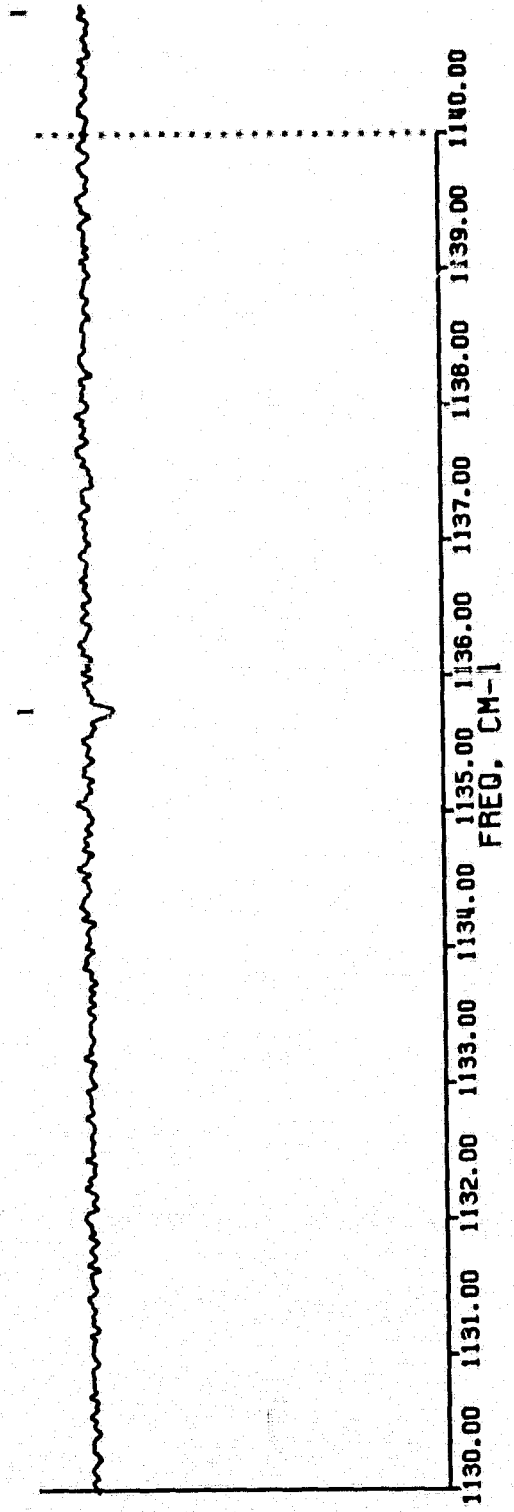
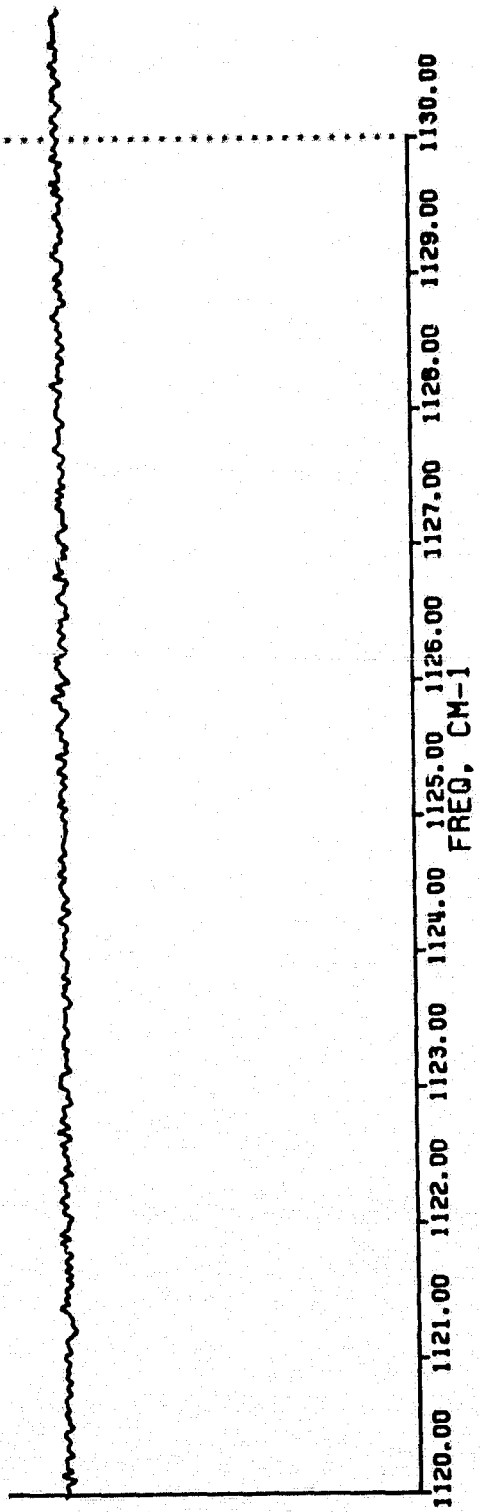


1135.750 1140.904

5

701

10



24

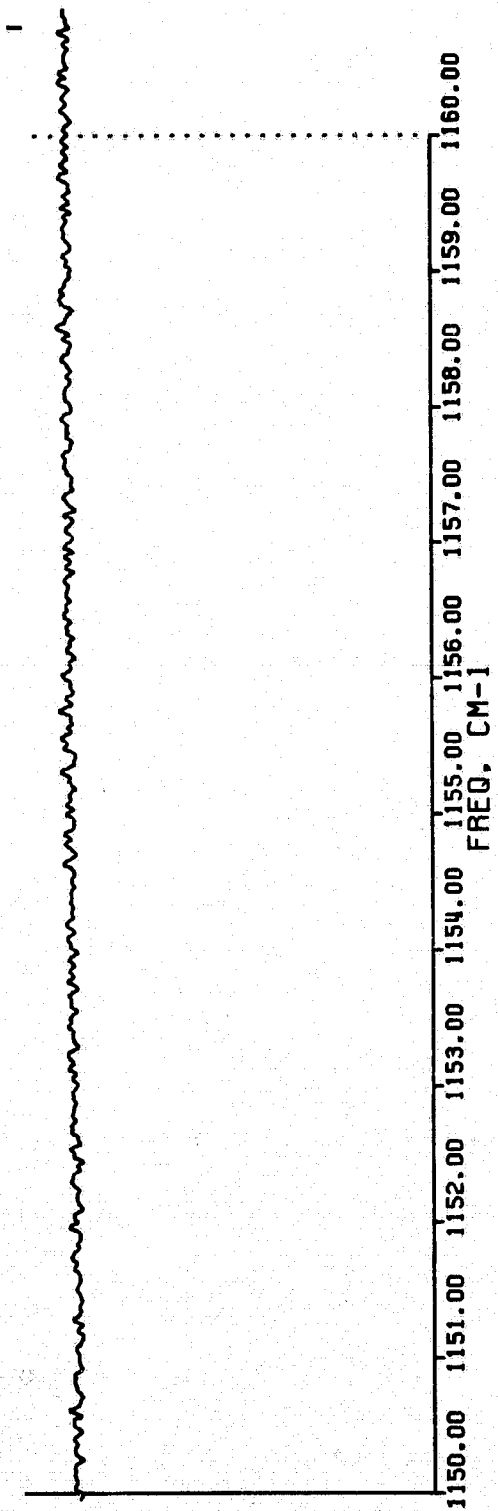
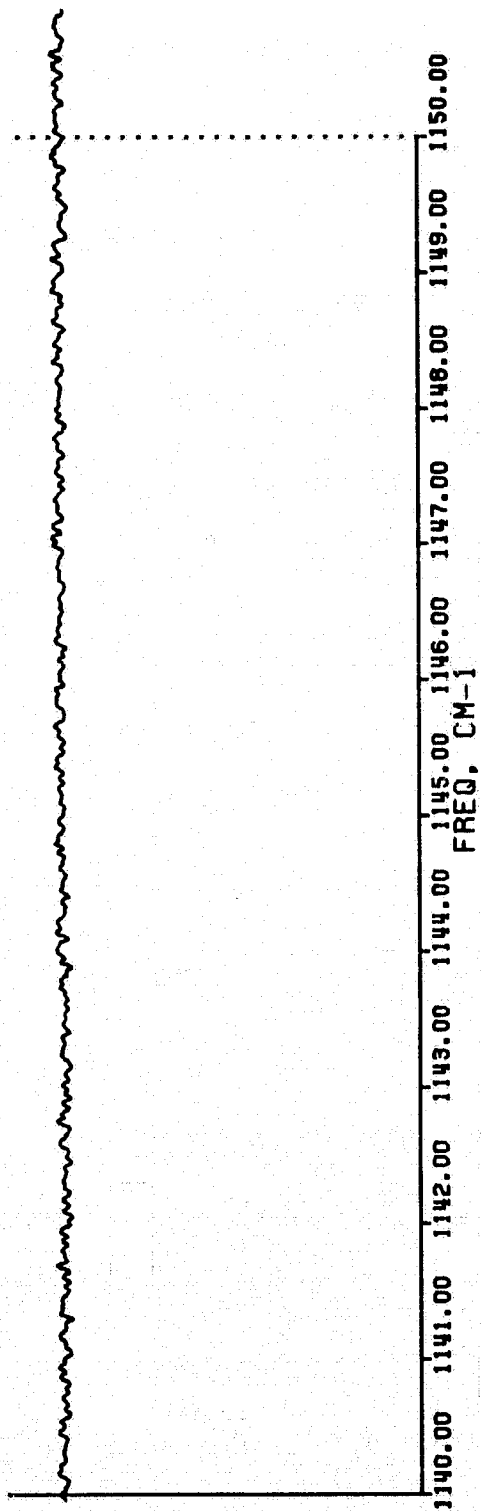
1160.797

5

42

12

5

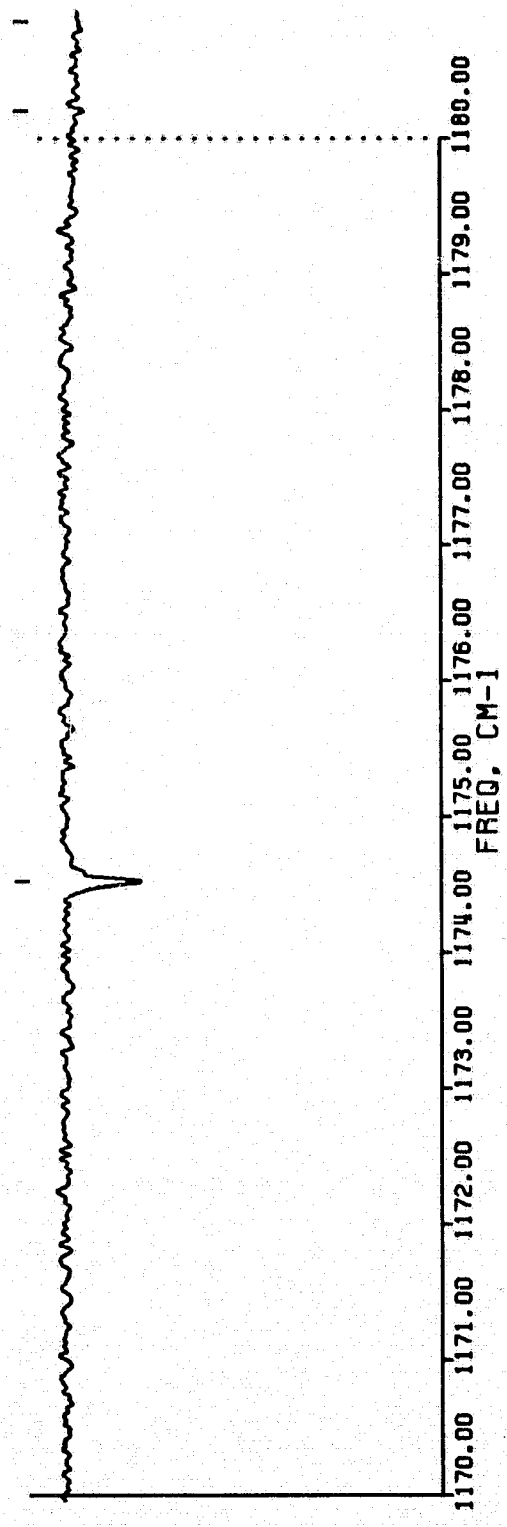
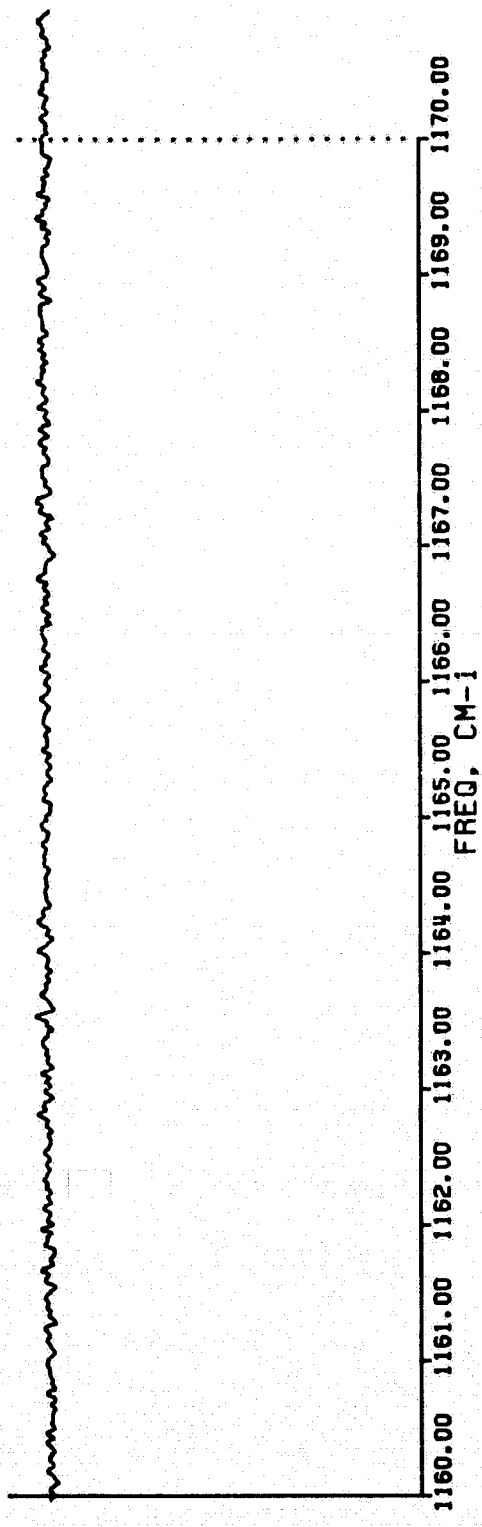


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1174.526    1180.200    1180.860

5

11

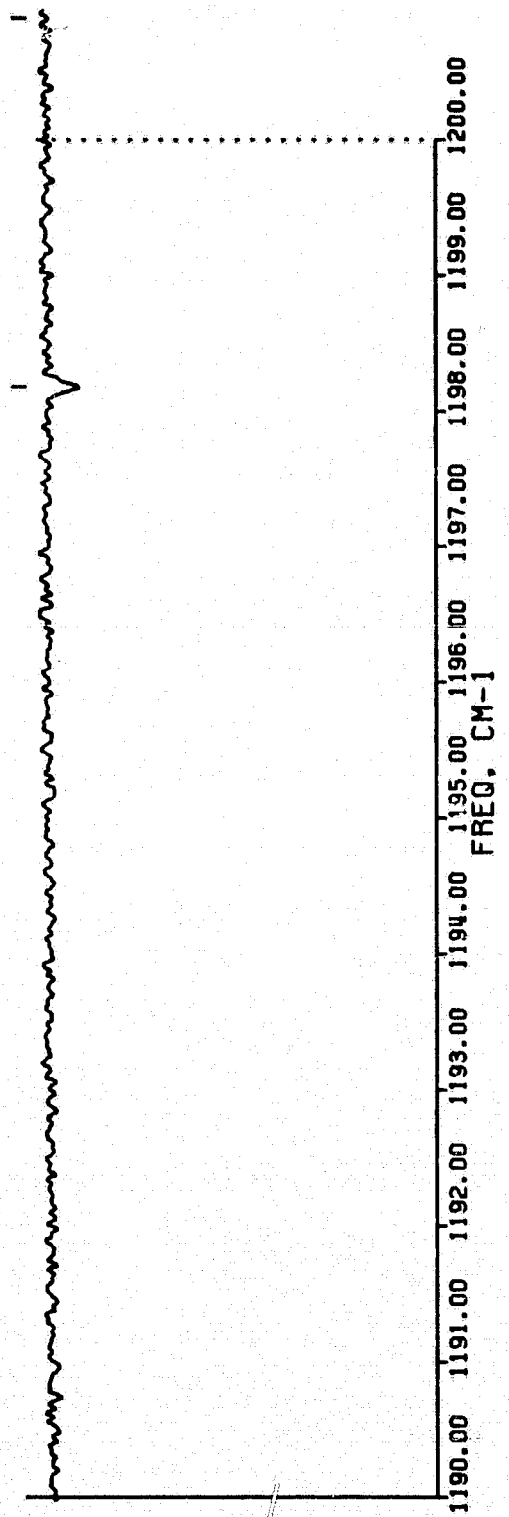
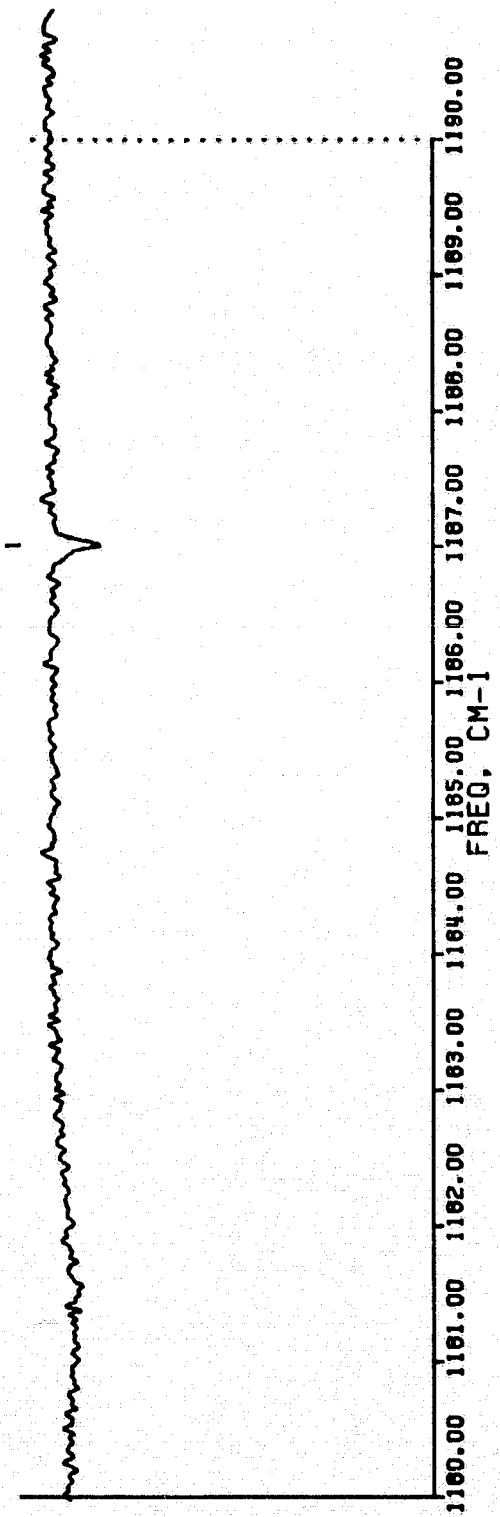


45

5

1187.012    1198.178    1200.894

44

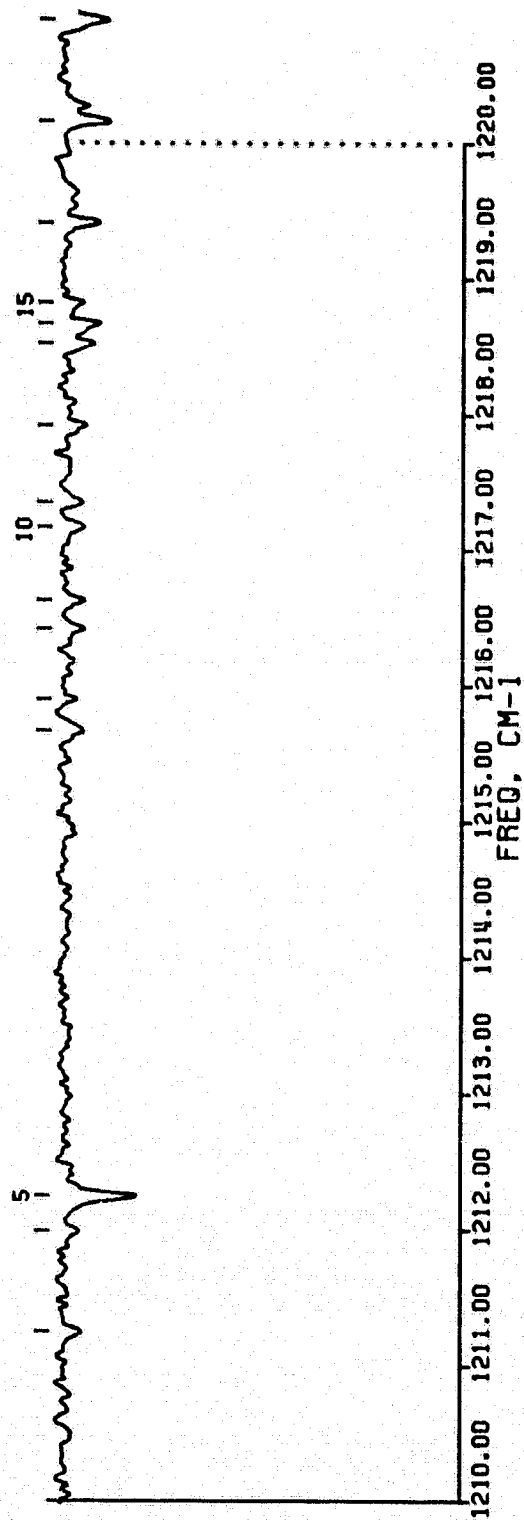
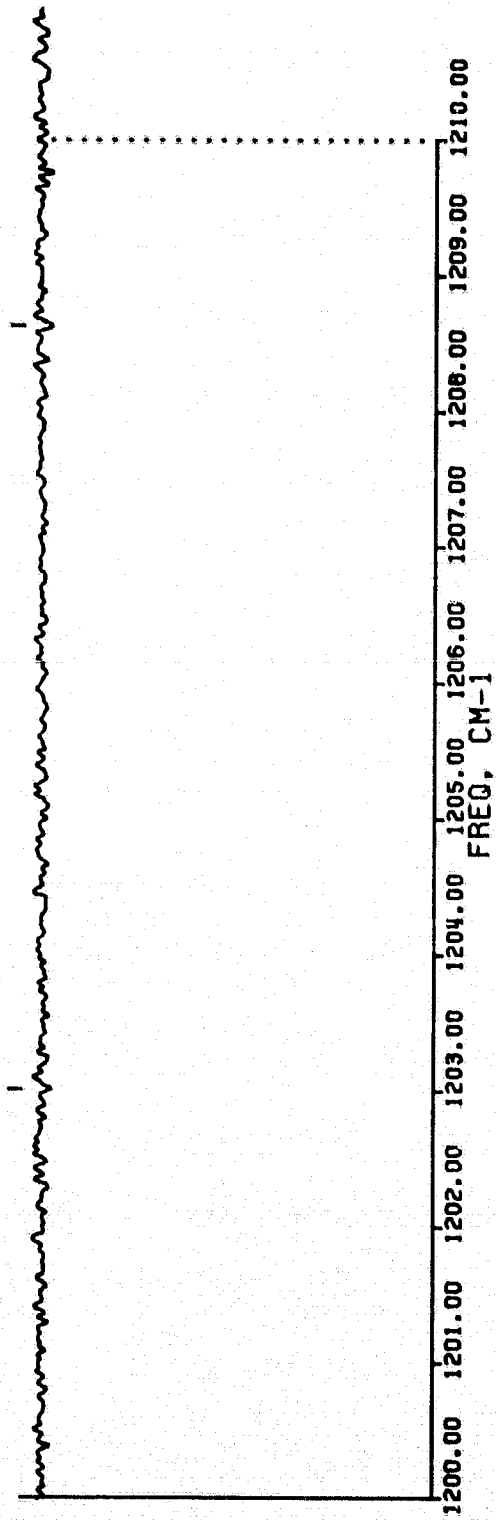


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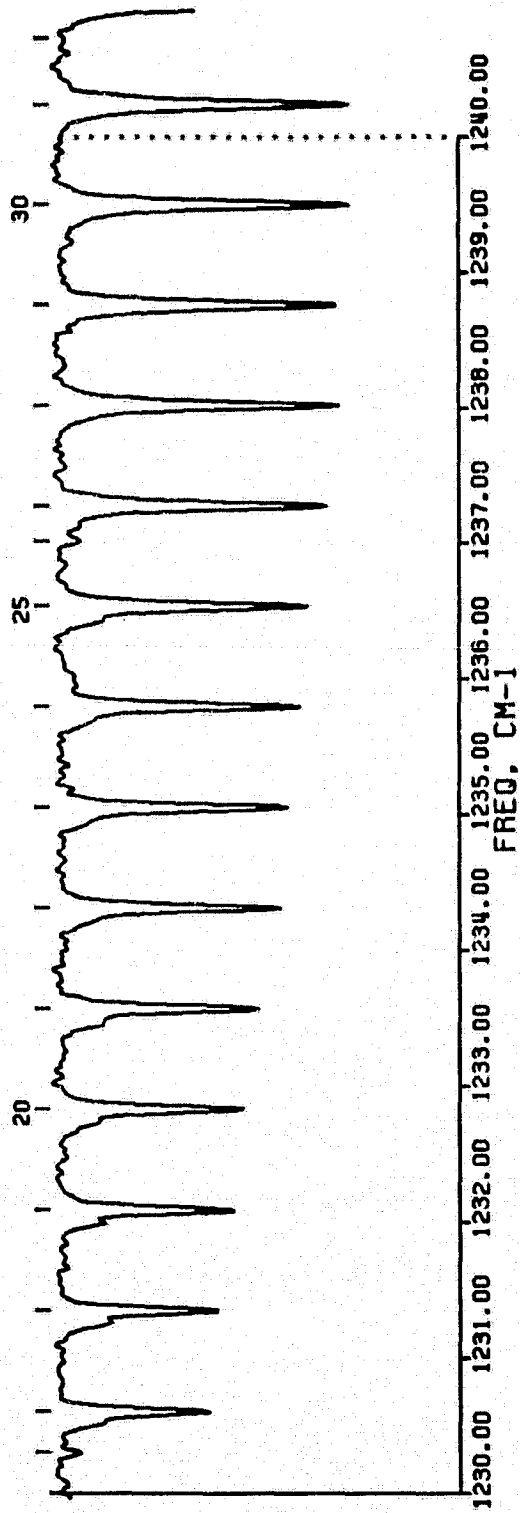
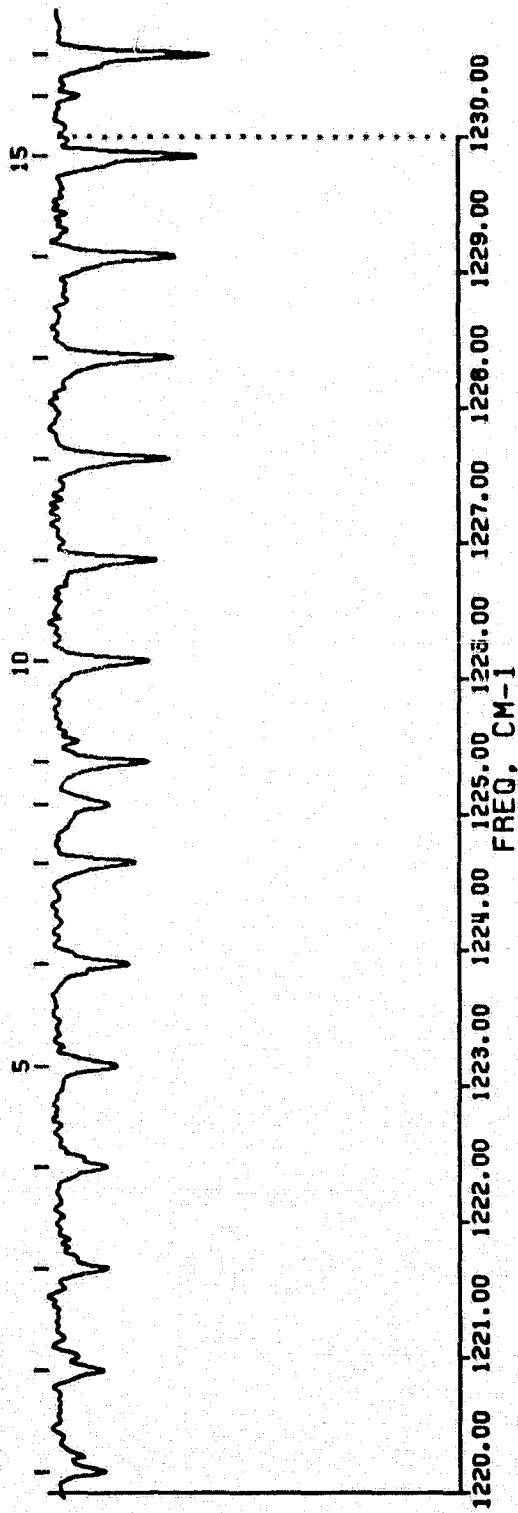
1203.008	1208.625	1211.245	1211.987	1212.248	5
1215.669	1215.903	1216.420	1216.629	1217.170	10
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1219.412	1220.159	1220.905			20

48



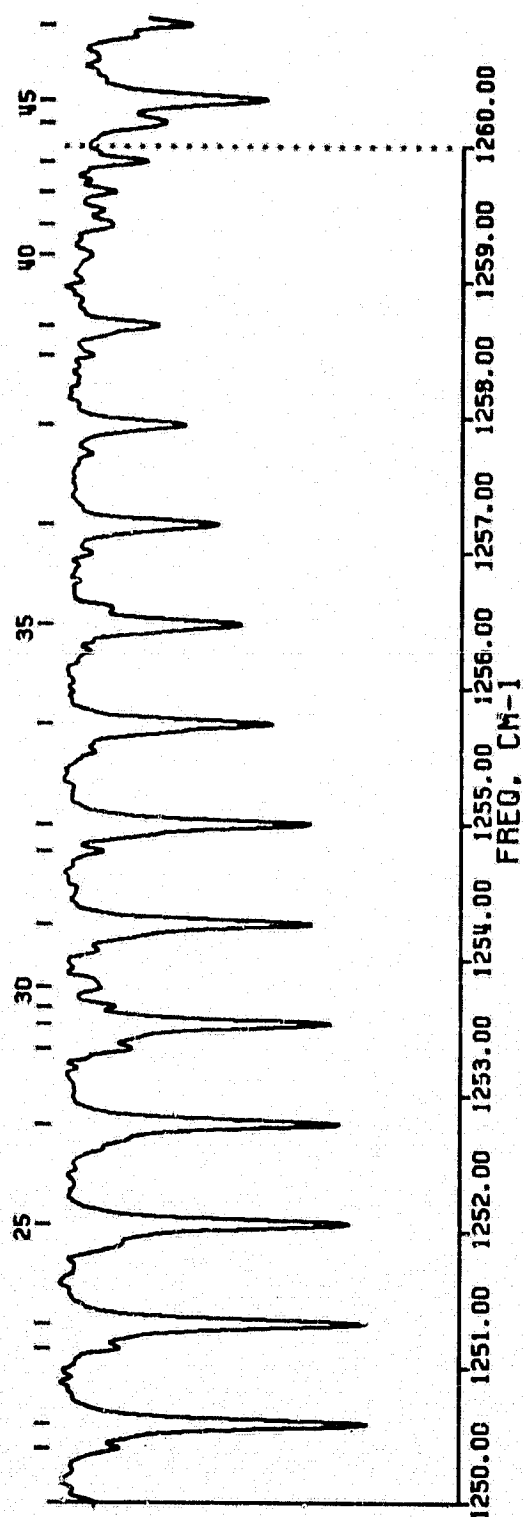
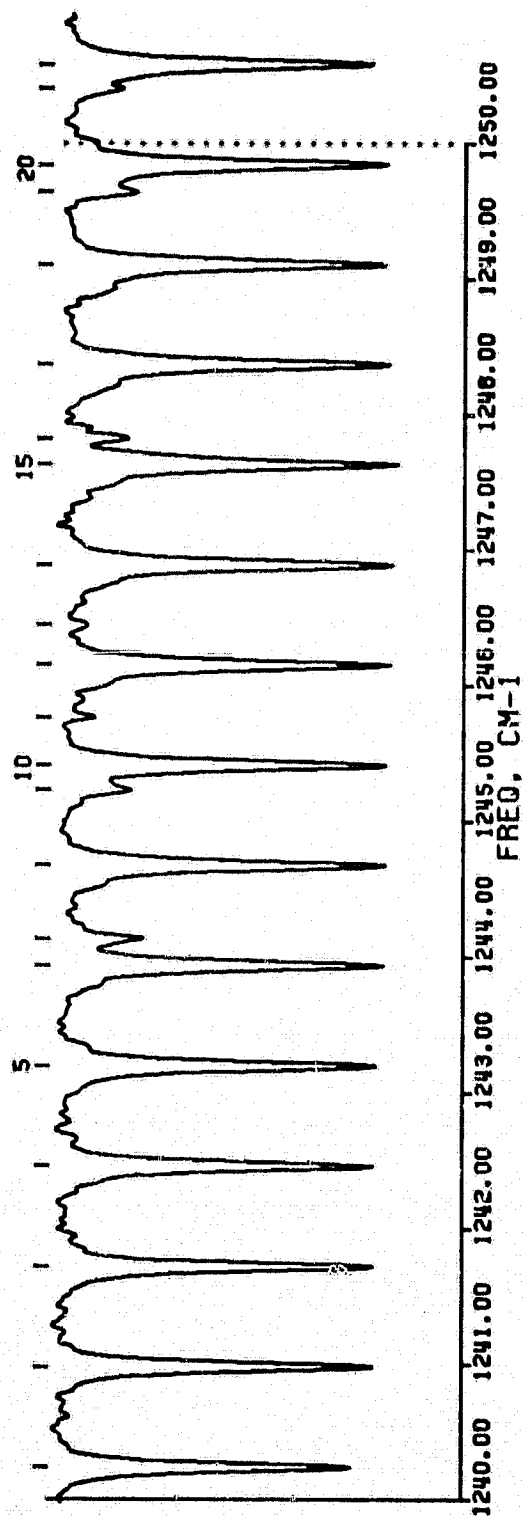
49

1220.159	1220.906	1221.656	1222.405	1223.148	5
1223.900	1224.646	1225.075	1225.391	1226.135	10
1226.876	1227.625	1228.370	1229.115	1229.856	15
1230.303	1230.604	1231.346	1232.066	1232.833	20
1233.571	1234.314	1235.056	1235.796	1236.540	25
1237.019	1237.276	1238.019	1238.756	1239.498	30
1240.240	1240.723				35



1240.240	1240.978	1241.719	1242.456	1243.197	5
1243.935	1244.136	1244.675	1245.228	1245.411	10
1245.766	1246.153	1246.446	1246.888	1247.629	15
1247.824	1248.365	1249.103	1249.638	1249.840	20
1250.404	1250.581	1251.138	1251.317	1252.056	25
1252.791	1253.350	1253.533	1253.659	1253.800	30
1254.266	1254.803	1255.003	1255.740	1256.474	35
1257.211	1257.945	1258.456	1258.678	1259.200	40
1259.422	1259.662	1259.888	1260.175	1260.342	45
1260.897					50

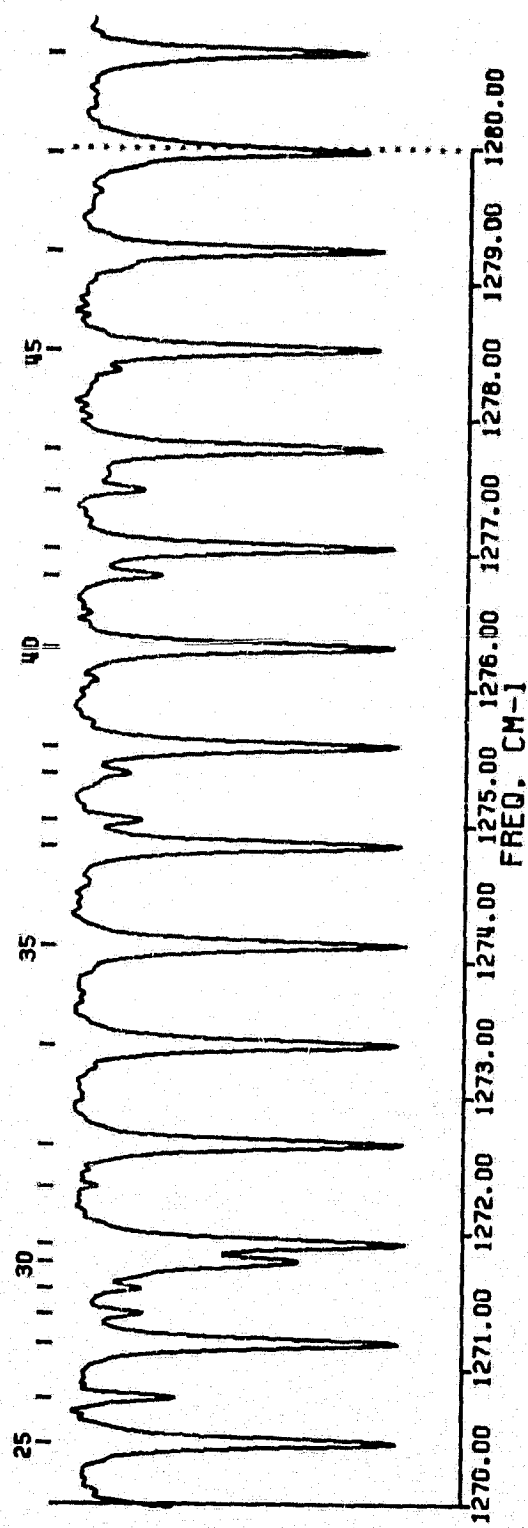
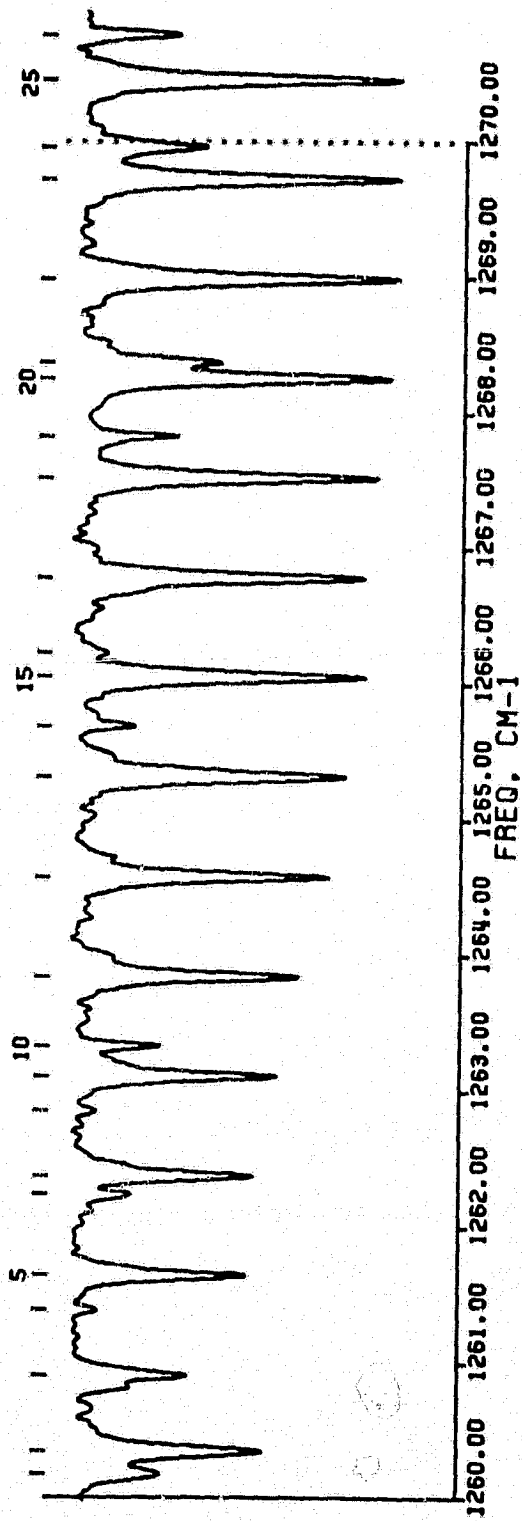
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1260.175	1260.342	1260.897	1261.378	1261.638	5
1262.233	1262.369	1262.849	1263.106	1263.328	10
1263.840	1264.575	1265.314	1265.685	1266.047	15
1266.225	1266.778	1267.516	1267.821	1268.250	20
1268.365	1268.984	1269.718	1269.956	1270.451	25
1270.783	1271.186	1271.405	1271.588	1271.790	30
1271.918	1272.342	1272.651	1273.386	1274.118	35
1274.850	1275.041	1275.387	1275.584	1276.315	40
1276.842	1277.045	1277.469	1277.778	1278.510	45
1279.240	1279.968	1280.698			50

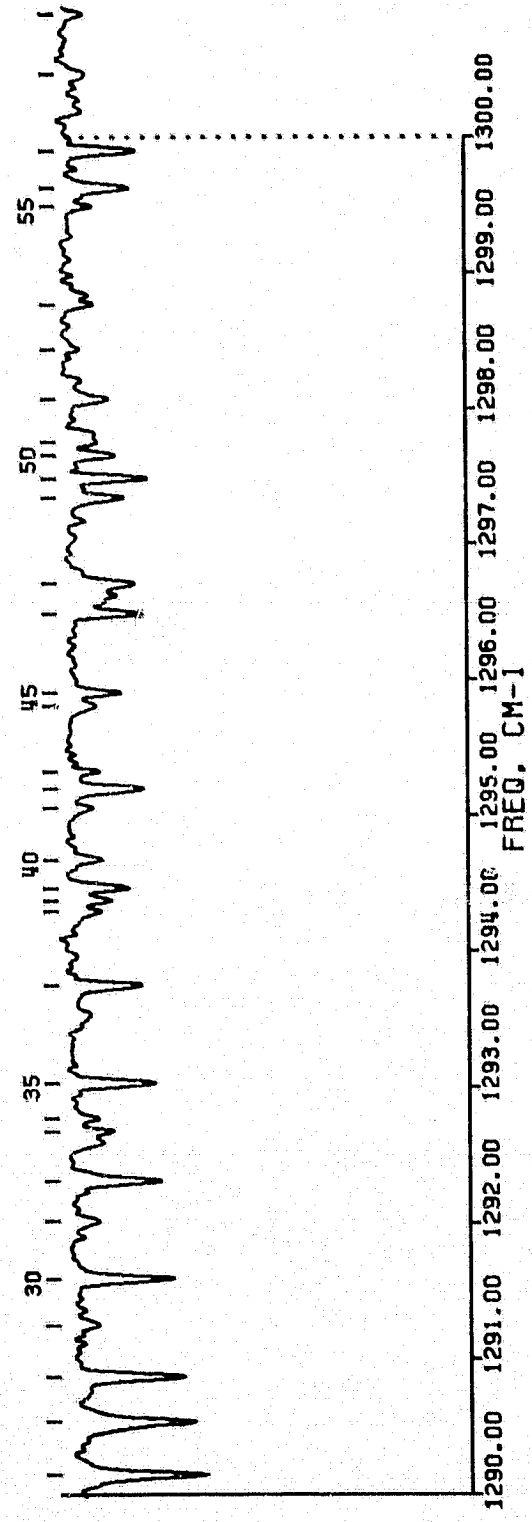
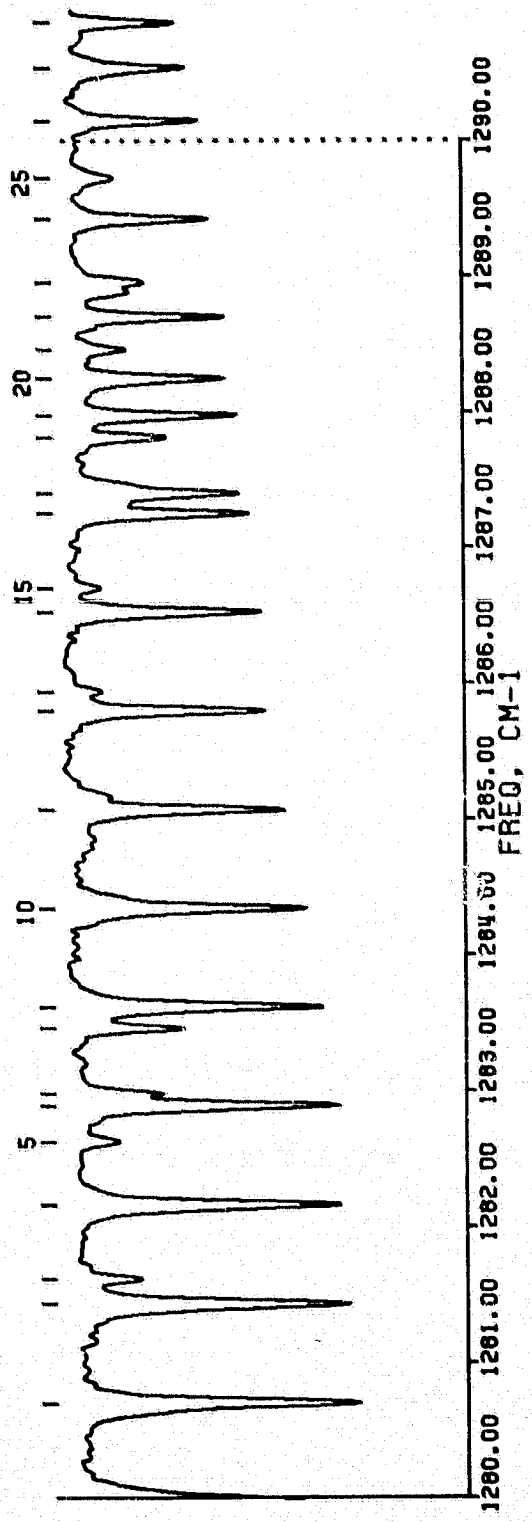
34



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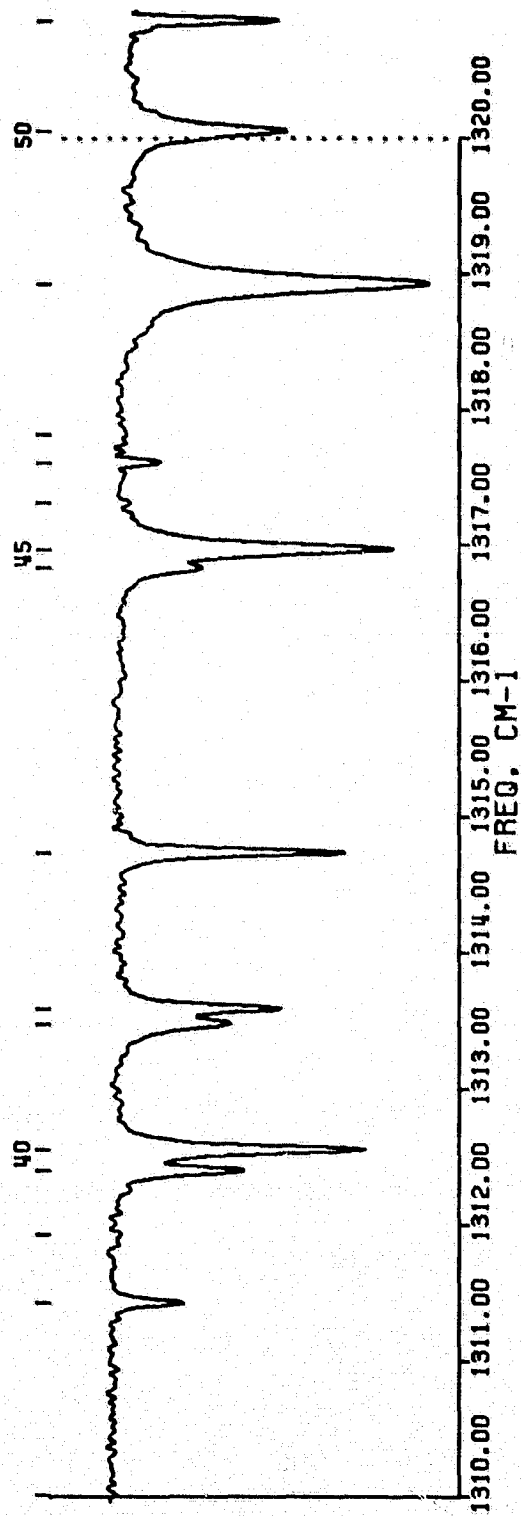
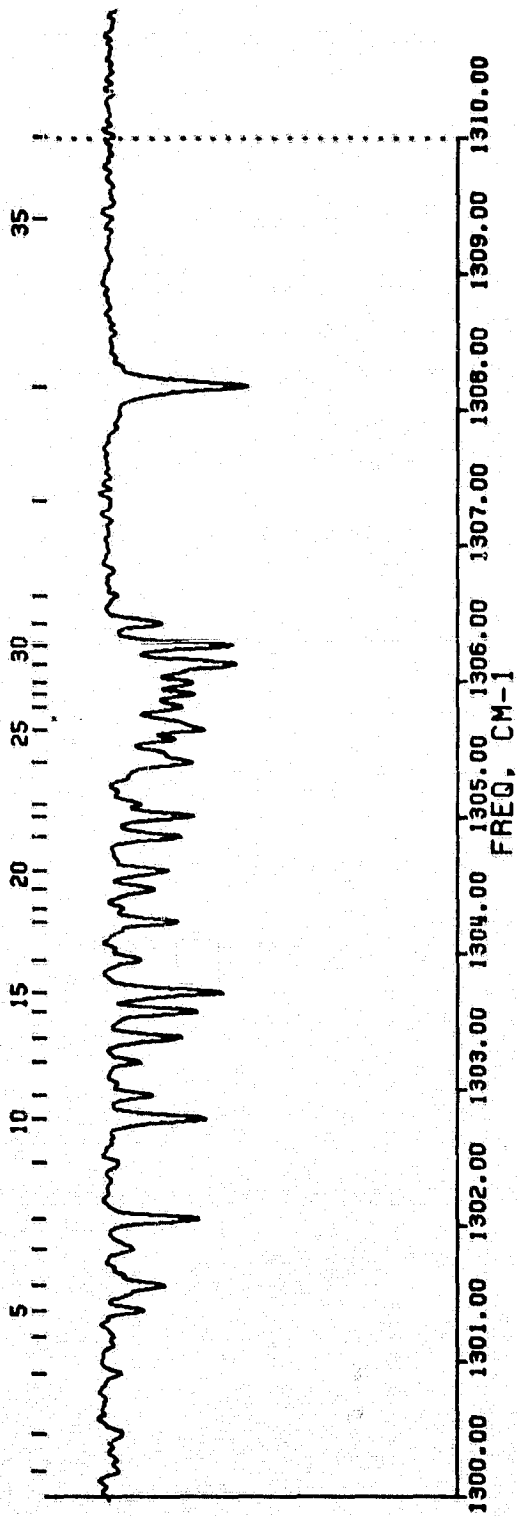


1280.698	1281.428	1281.613	1282.159	1282.621	5
1282.888	1282.978	1283.460	1283.615	1284.340	10
1285.068	1285.796	1285.939	1286.528	1286.703	15
1287.251	1287.398	1287.815	1287.976	1288.248	20
1288.460	1288.700	1288.956	1289.423	1289.725	25
1290.147	1290.539	1290.870	1291.251	1291.593	30
1292.017	1292.314	1292.678	1292.773	1293.034	35
1293.755	1294.300	1294.380	1294.470	1294.681	40
1295.060	1295.203	1295.331	1295.811	1295.908	45
1296.488	1296.714	1297.347	1297.487	1297.657	50
1297.755	1298.072	1298.440	1298.769	1299.491	55
1299.625	1299.900	1300.466	1300.908		60

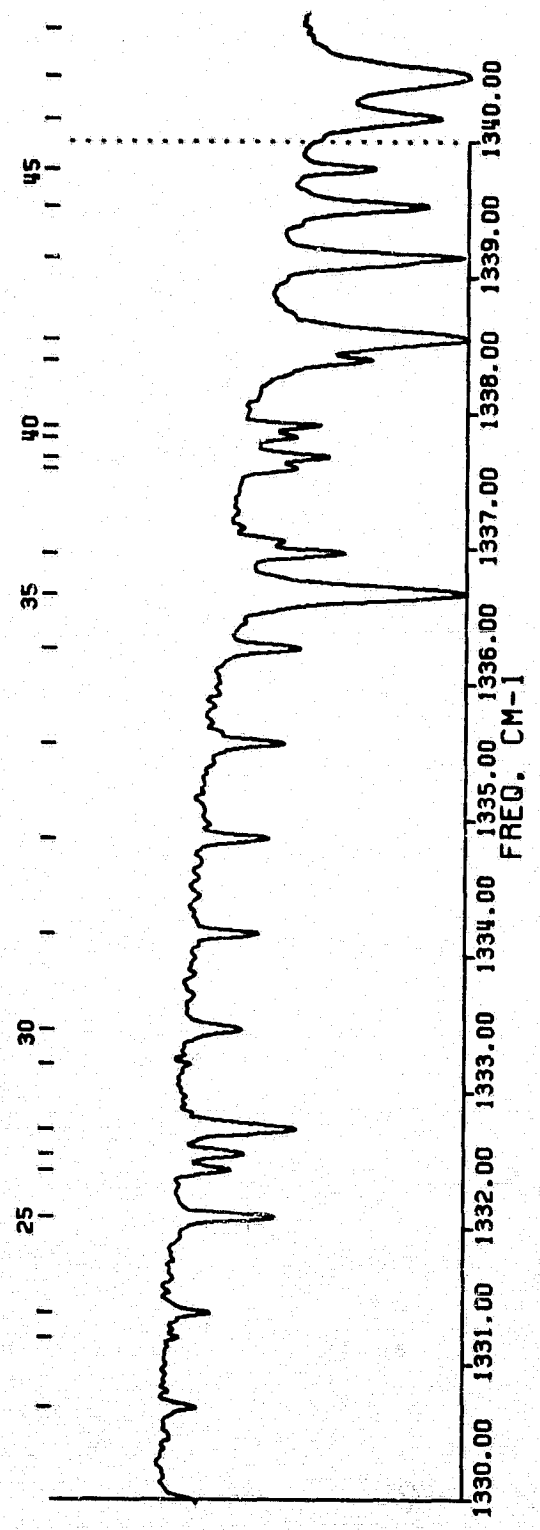
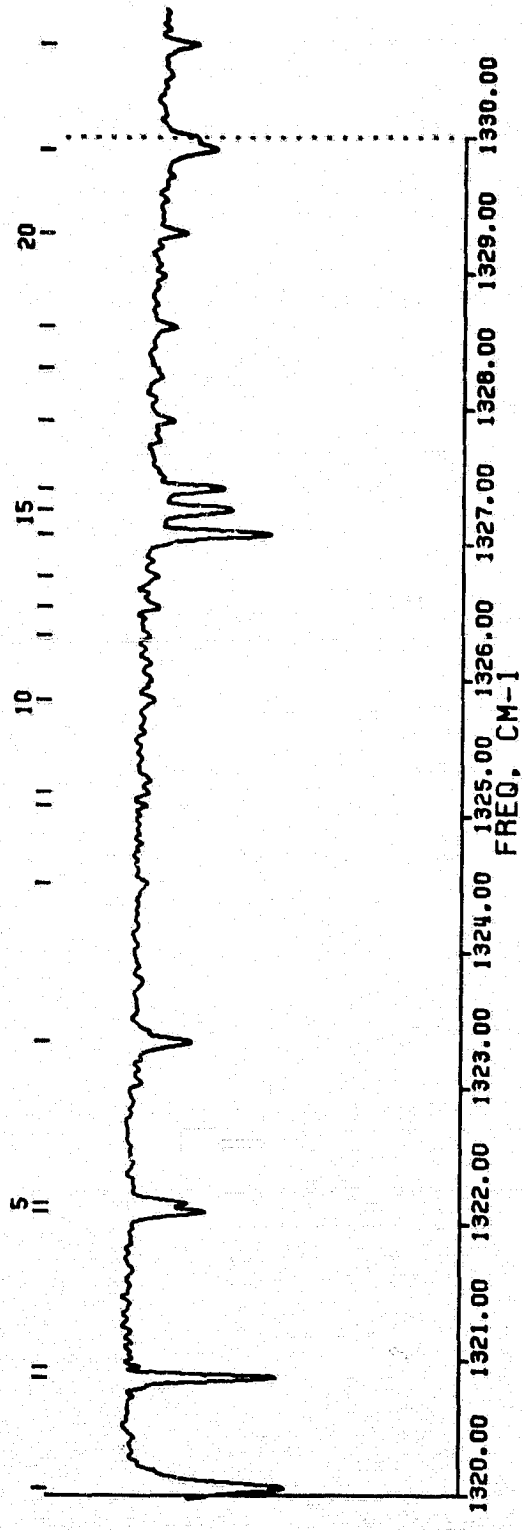


1300.192	1300.466	1300.908	1301.181	1301.368	5
1301.555	1301.821	1302.048	1302.458	1302.781	10
1302.953	1303.198	1303.379	1303.572	1303.712	15
1303.953	1304.229	1304.330	1304.472	1304.610	20
1304.856	1305.010	1305.099	1305.405	1305.648	25
1305.815	1305.908	1305.993	1306.128	1306.269	30
1306.428	1306.631	1307.334	1308.175	1309.407	35
1310.013	1311.428	1311.934	1312.403	1312.556	40
1313.485	1313.594	1314.741	1316.840	1316.973	45
1317.316	1317.613	1317.818	1318.928	1320.055	50
1320.867					55

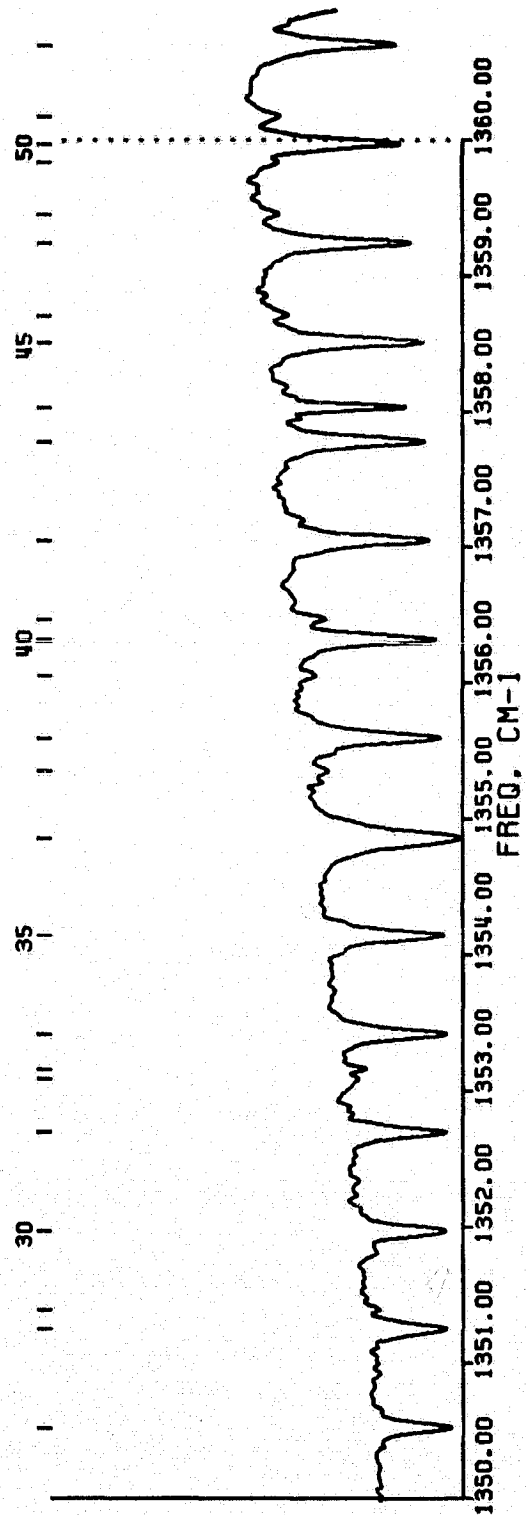
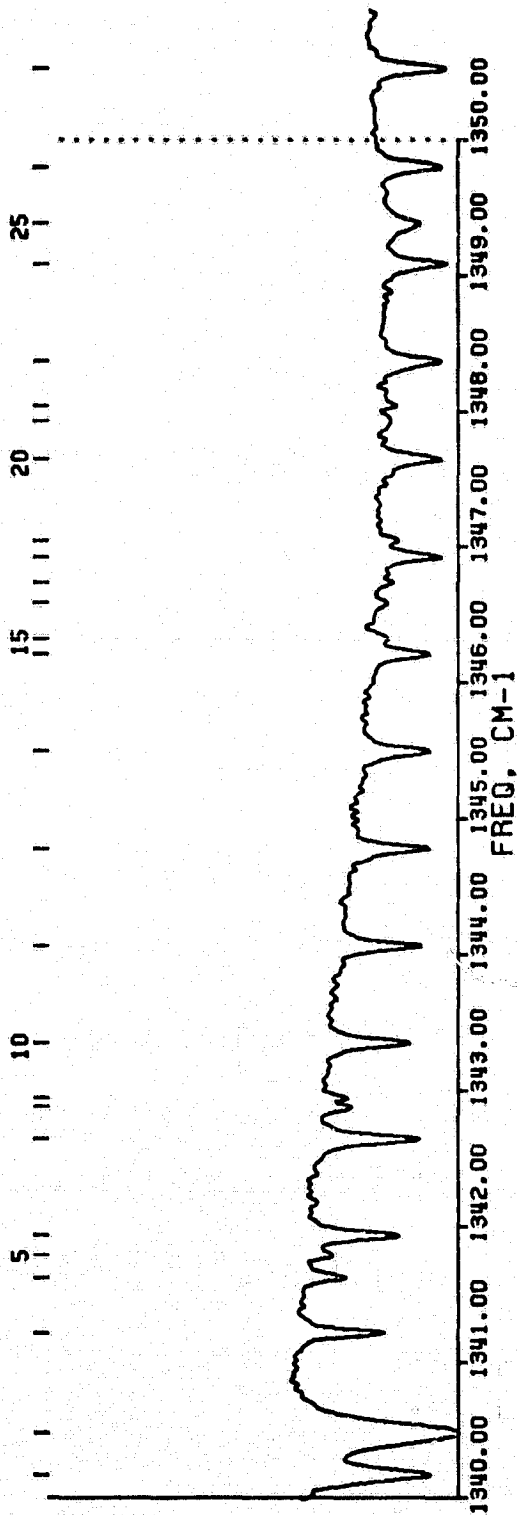
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1320.055	1320.867	1320.949	1322.090	1322.150	5
1323.340	1324.503	1325.078	1325.172	1325.856	10
1326.329	1326.537	1326.765	1327.073	1327.255	15
1327.410	1327.913	1328.295	1328.602	1329.294	20
1329.908	1330.681	1331.193	1331.374	1332.081	25
1332.426	1332.546	1332.726	1333.206	1333.462	30
1334.166	1334.868	1335.565	1336.266	1336.669	35
1336.970	1337.593	1337.674	1337.825	1337.908	40
1338.389	1338.545	1339.145	1339.519	1339.796	45
1340.170	1340.478	1340.831			50



1340.170	1340.478	1341.215	1341.621	1341.786	5
1341.931	1342.640	1342.876	1342.945	1343.347	10
1344.061	1344.778	1345.495	1346.208	1346.322	15
1346.586	1346.738	1346.925	1347.047	1347.644	20
1347.929	1348.041	1348.366	1349.084	1349.383	25
1349.798	1350.523	1351.247	1351.388	1351.970	30
1352.694	1353.090	1353.159	1353.419	1354.145	35
1354.860	1355.355	1355.597	1356.056	1356.321	40
1356.473	1357.051	1357.780	1358.034	1358.510	45
1358.706	1359.240	1359.453	1359.838	1359.971	50
1360.173	1360.700				55

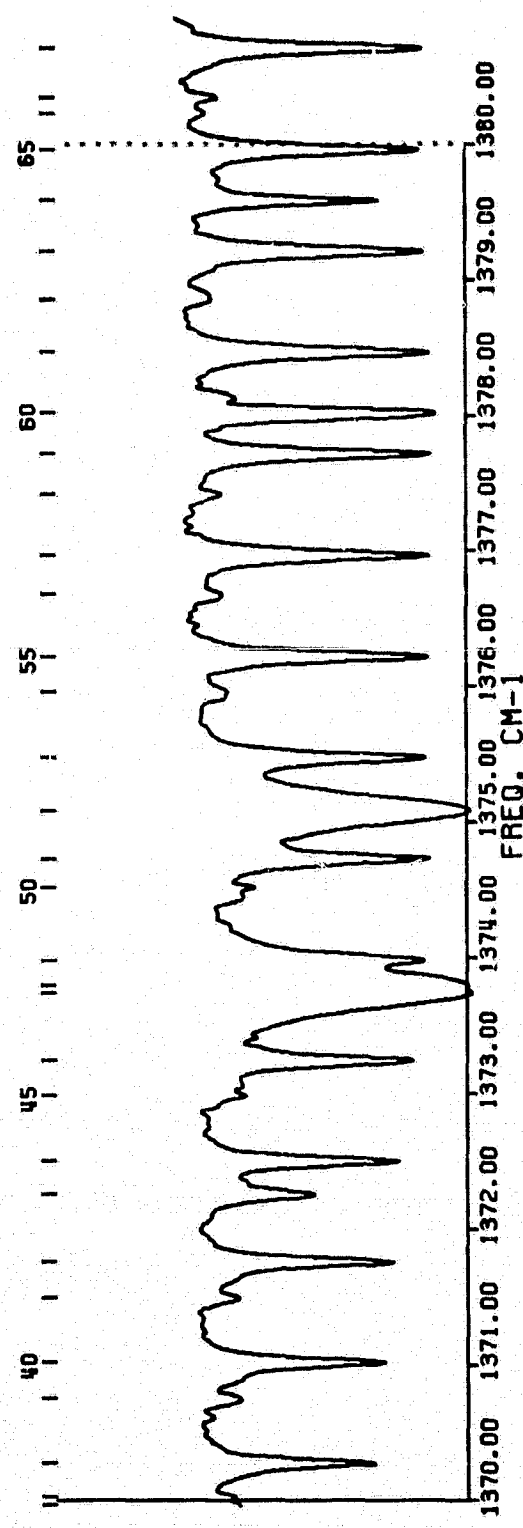
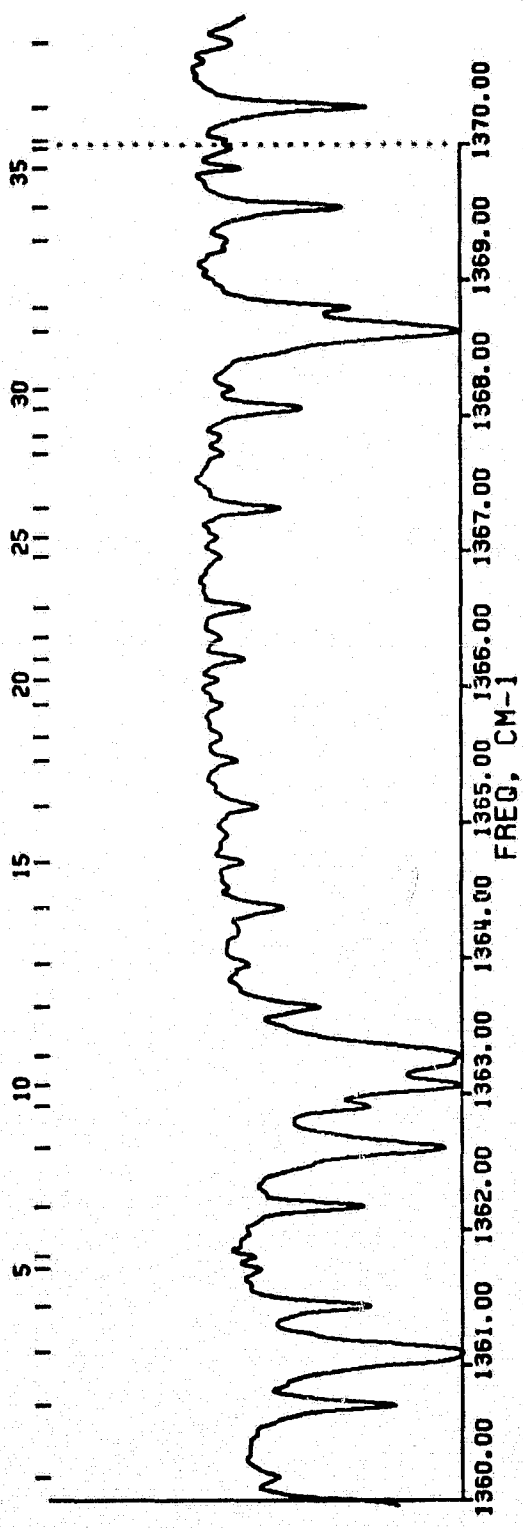


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1360.173	1360.700	1361.094	1361.433	1361.709	5
1361.800	1362.168	1362.602	1362.903	1363.062	10
1363.281	1363.639	1363.953	1364.370	1364.706	15
1365.118	1365.456	1365.627	1365.870	1366.052	20
1366.206	1366.363	1366.584	1366.960	1367.103	25
1367.315	1367.719	1367.846	1368.054	1368.195	30
1368.621	1368.792	1369.288	1369.536	1369.824	35
1369.968	1370.028	1370.274	1370.750	1371.019	40
1371.491	1371.757	1372.255	1372.500	1372.986	45
1373.244	1373.740	1373.793	1373.961	1374.520	50
1374.731	1375.088	1375.475	1375.962	1376.220	55
1376.678	1376.965	1377.413	1377.714	1378.016	60
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1380.225	1380.339	1380.707			70

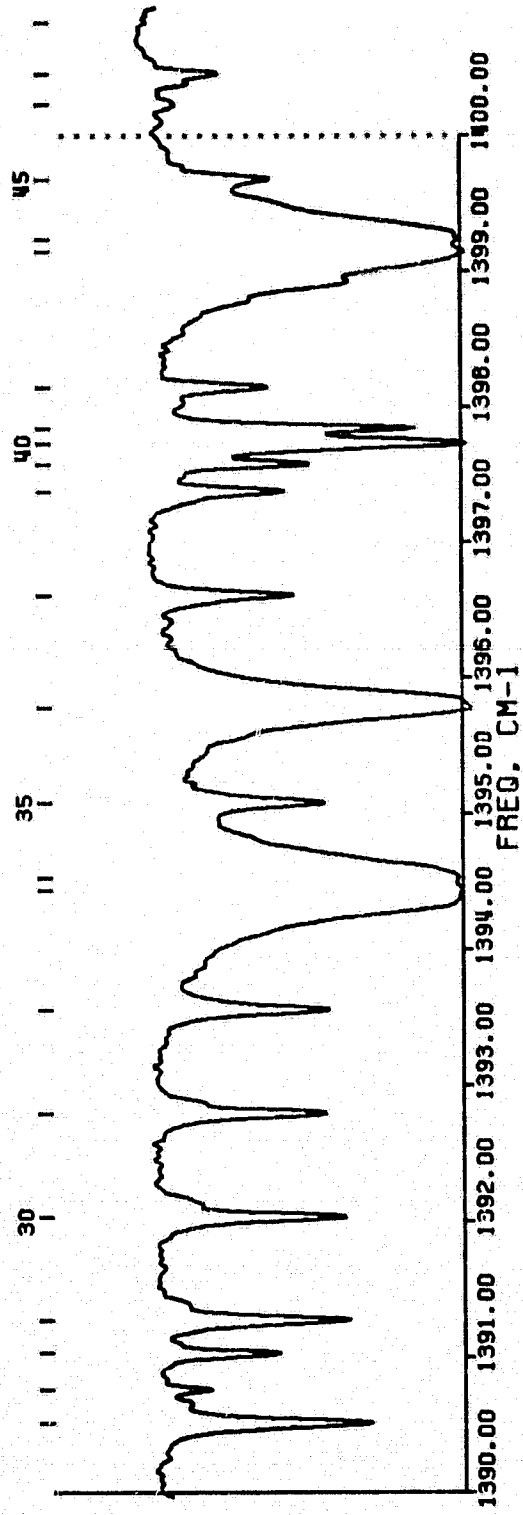
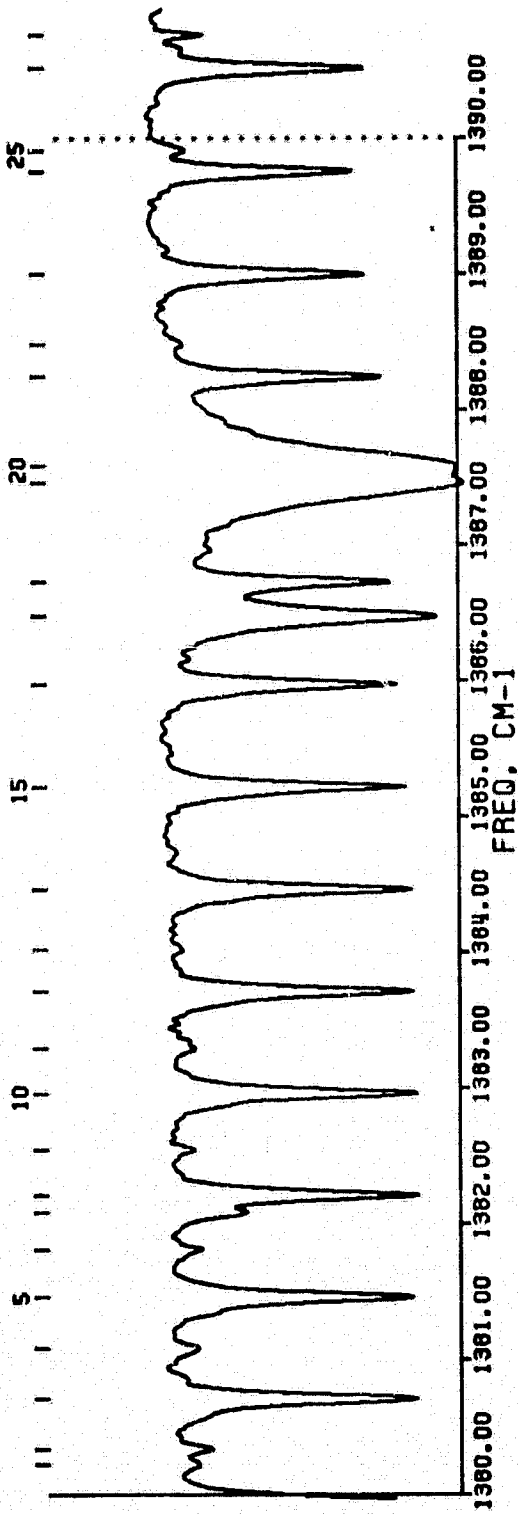
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1380.225	1380.339	1380.707	1381.083	1381.456	5
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1383.290	1383.711	1384.018	1384.463	1385.218	15
1385.972	1386.474	1386.728	1387.458	1387.585	20
1388.238	1388.477	1388.995	1389.755	1389.908	25
1390.515	1390.761	1391.028	1391.272	1392.031	30
1392.795	1393.560	1394.439	1394.530	1395.081	35
1395.783	1396.611	1397.376	1397.576	1397.730	40
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1400.231	1400.456	1400.830			50

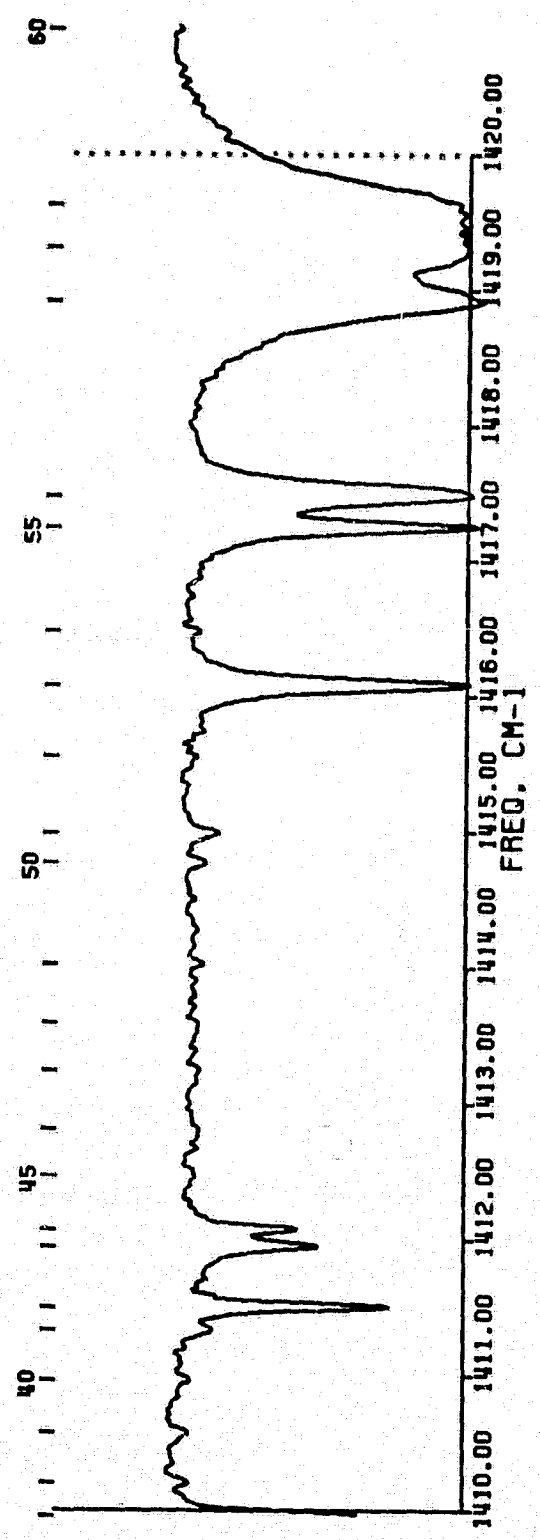
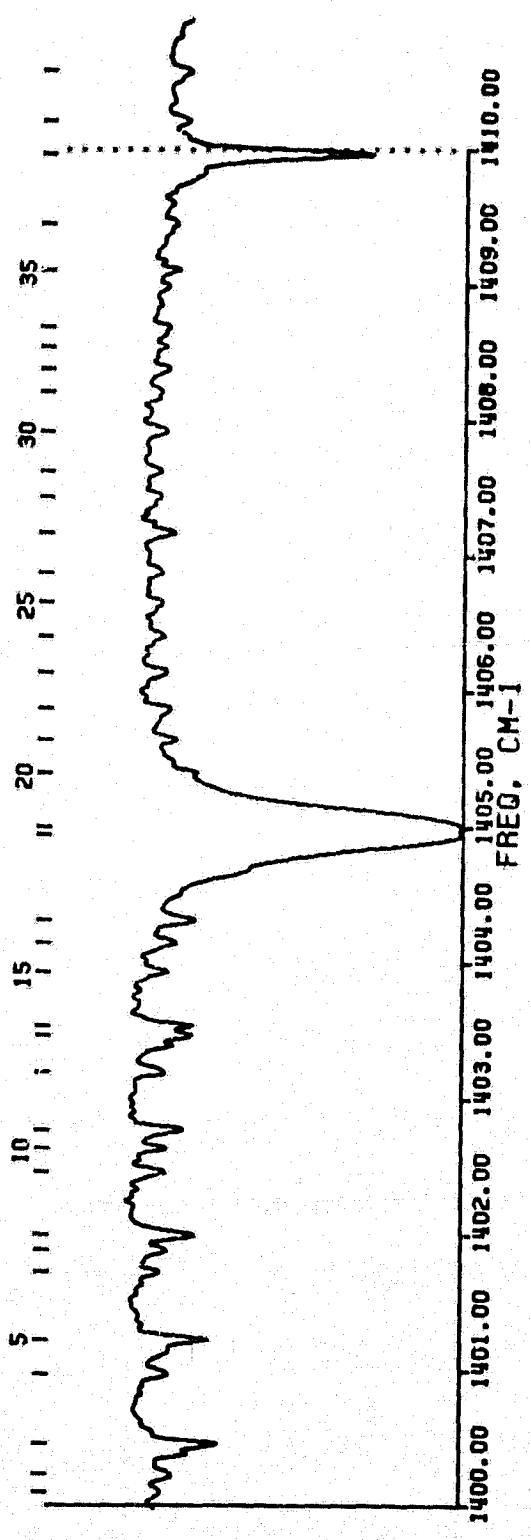
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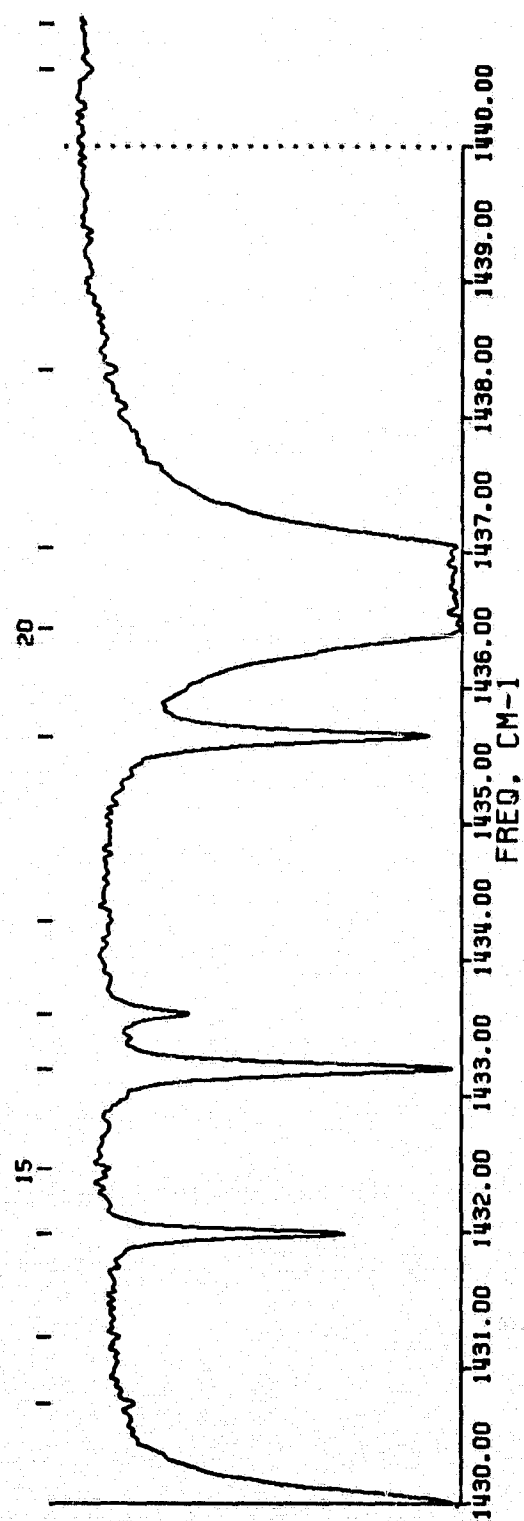
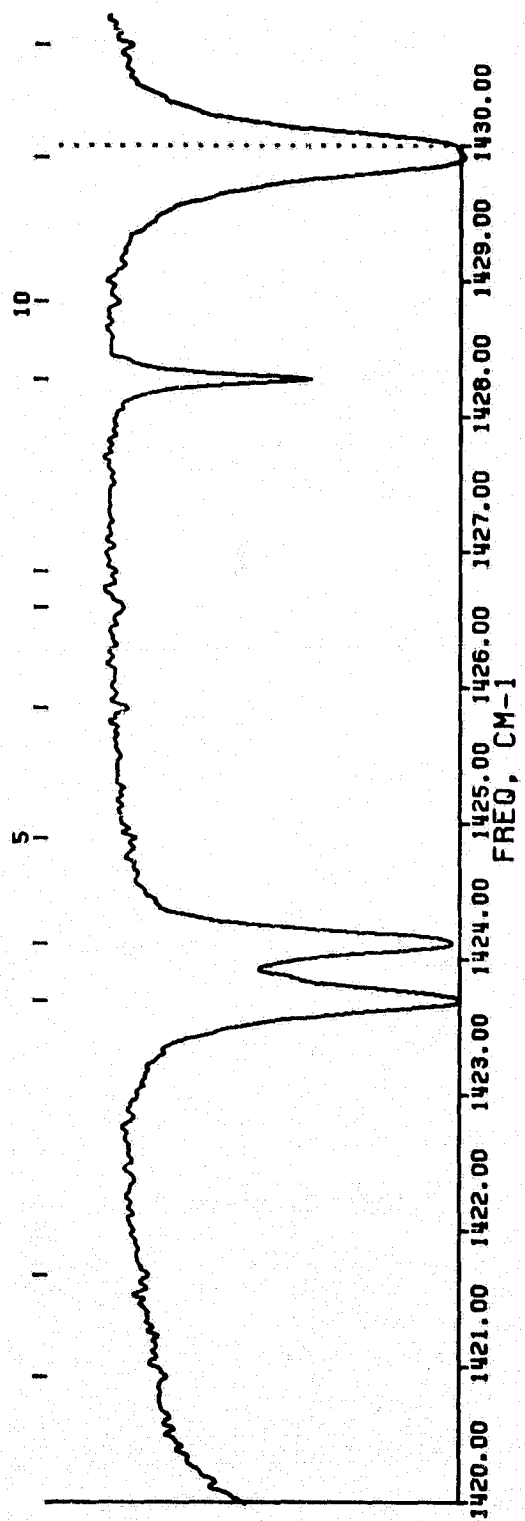
6-1

1400.103	1400.231	1400.456	1400.970	1401.221	5
1401.722	1401.883	1401.994	1402.456	1402.634	10
1402.771	1403.191	1403.466	1403.538	1403.934	15
1404.150	1404.316	1404.946	1405.003	1405.402	20
1405.646	1405.872	1406.140	1406.408	1406.658	25
1406.879	1407.172	1407.439	1407.626	1407.921	30
1408.214	1408.384	1408.541	1408.688	1409.109	35
1409.452	1409.963	1410.206	1410.576	1410.960	40
1411.334	1411.503	1411.950	1412.074	1412.465	45
1412.812	1413.246	1413.591	1414.028	1414.775	50
1414.992	1415.558	1416.086	1416.481	1417.250	55
1417.481	1418.911	1419.310	1419.626	1420.923	60

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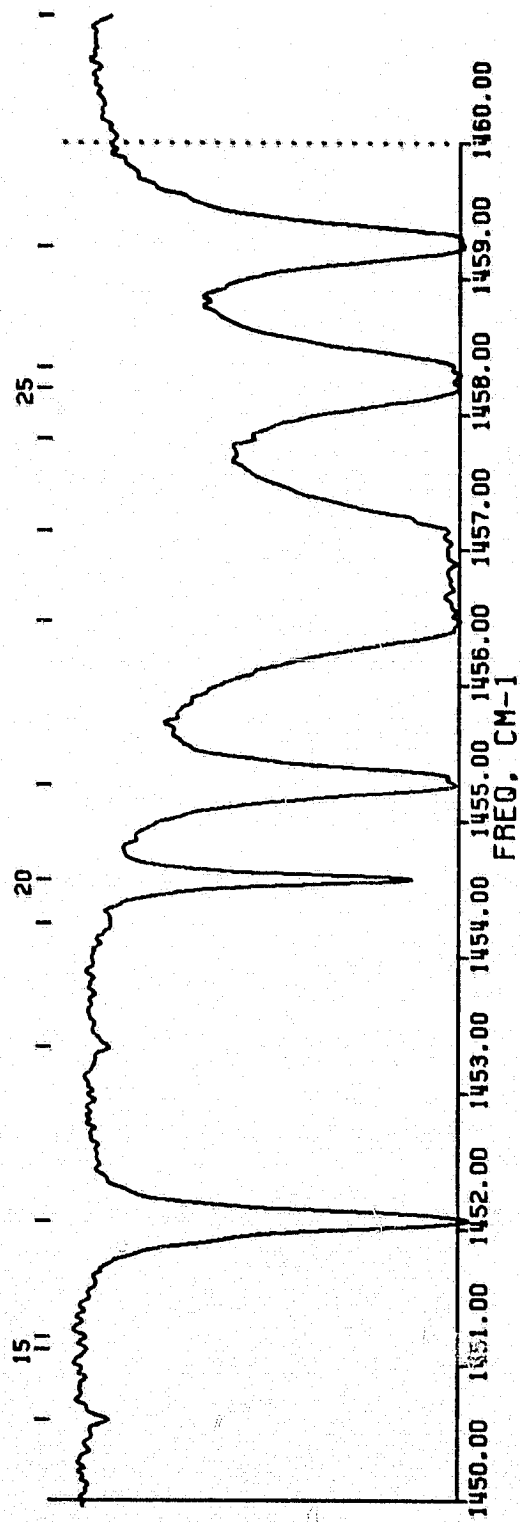
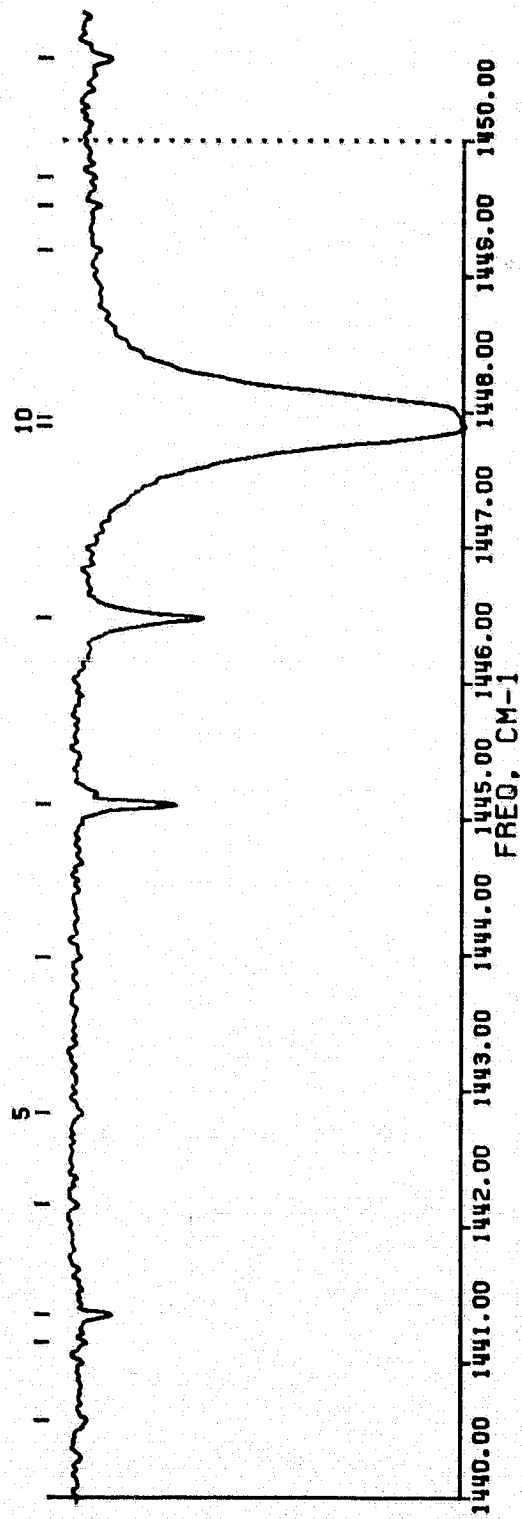


1420.925	1421.676	1423.696	1424.117	1424.898	5
1425.851	1426.593	1426.862	1428.275	1428.850	10
1429.912	1430.738	1431.228	1431.988	1432.466	15
1433.203	1433.608	1434.294	1435.652	1436.446	20
1437.045	1438.351	1440.562	1440.905		25

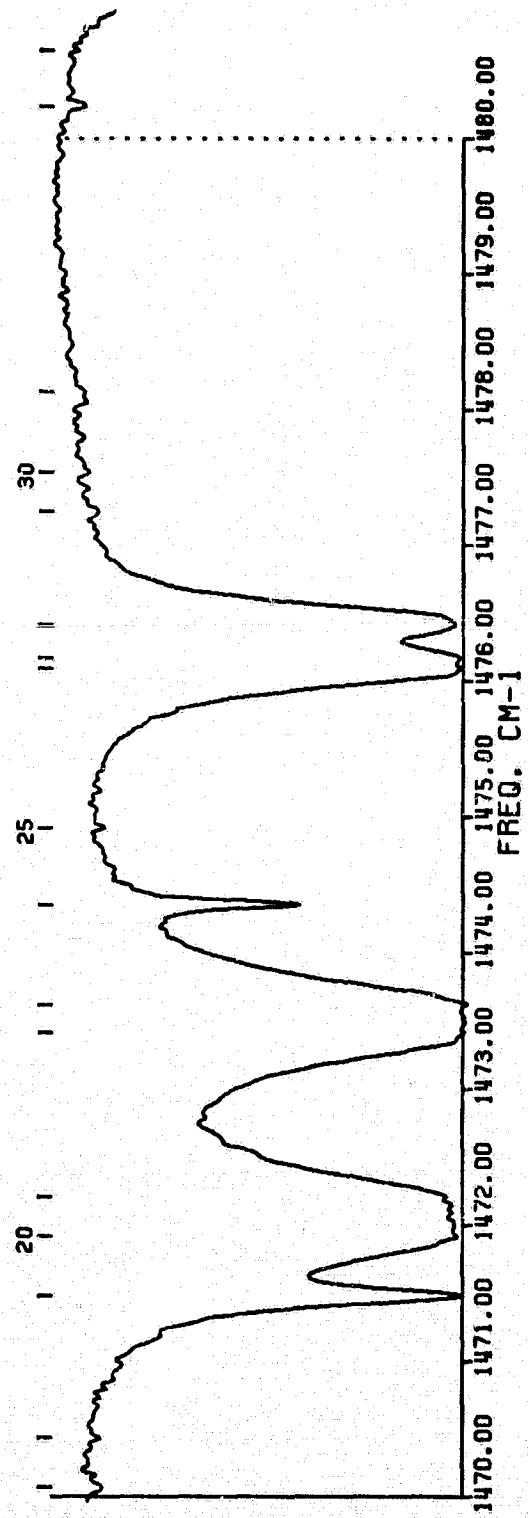
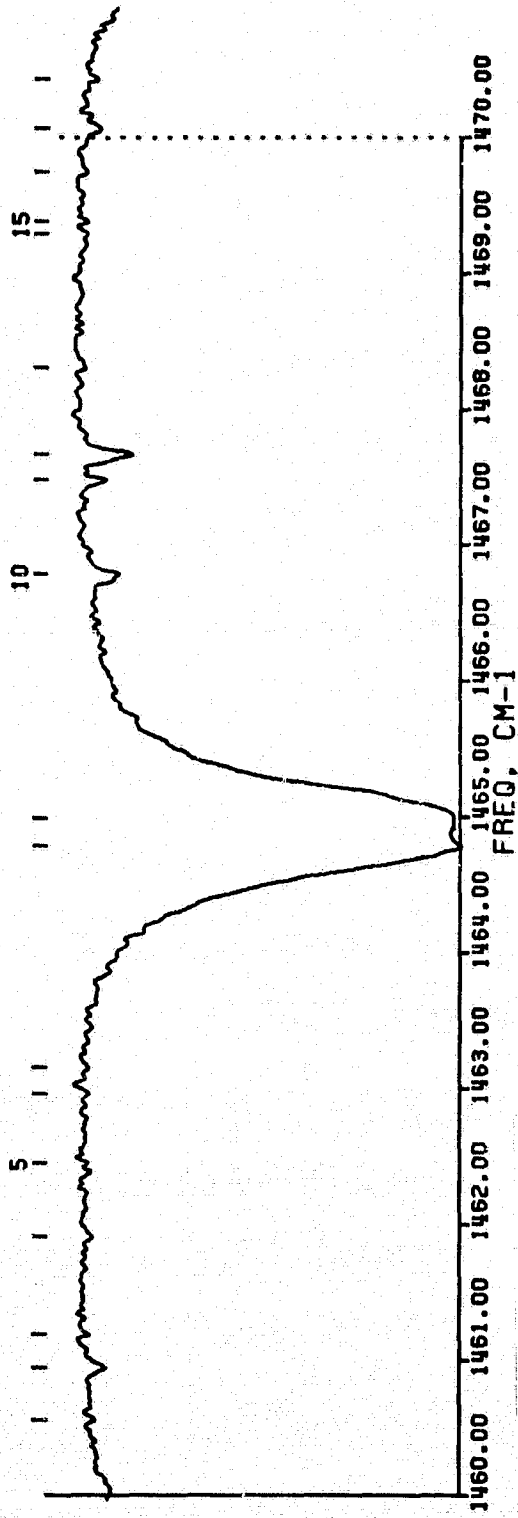




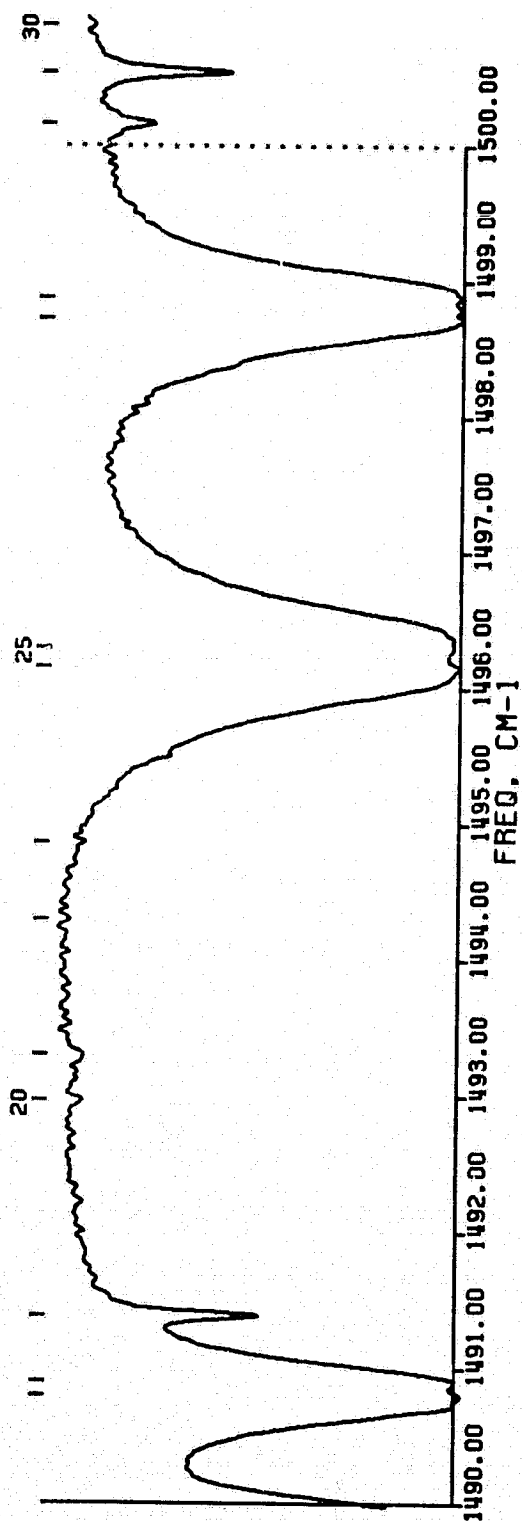
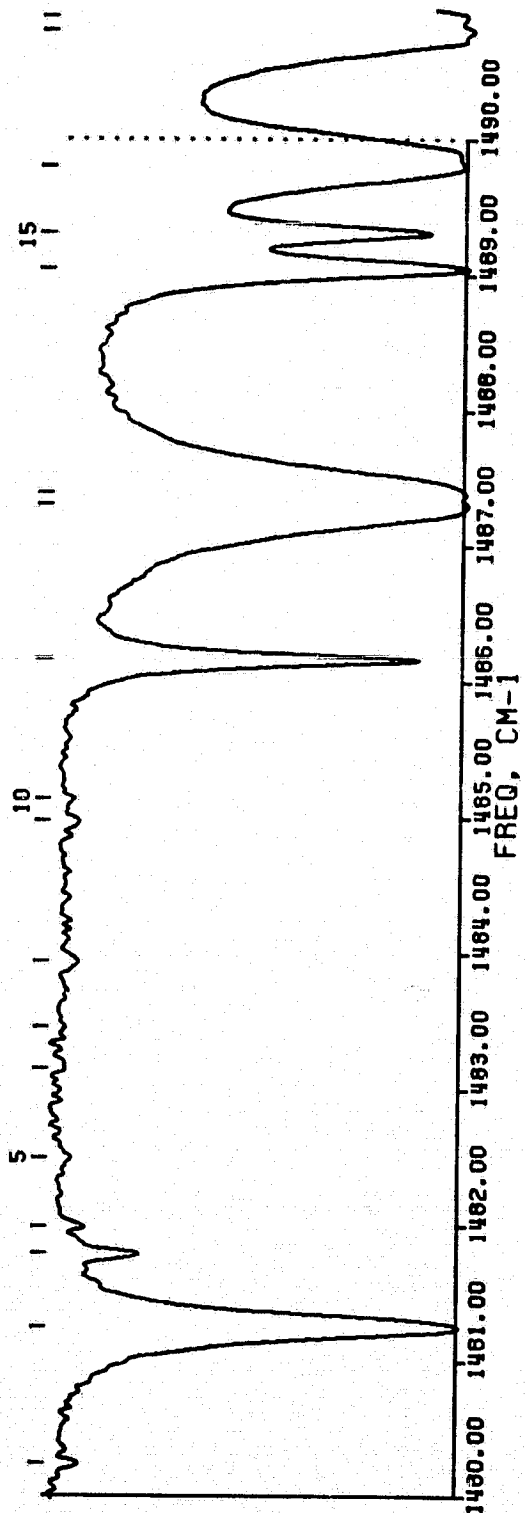
1440.571	1441.141	1441.347	1442.156	1442.830	5
1443.981	1445.101	1446.476	1447.891	1447.951	10
1449.187	1449.518	1449.726	1450.597	1451.115	15
1451.205	1452.060	1453.340	1454.250	1454.575	20
1455.271	1456.478	1457.140	1457.819	1458.191	25
1458.350	1459.238	1460.934			30



1460.558	1460.541	1461.185	1461.904	1462.445	5
1462.959	1463.151	1464.780	1464.984	1466.784	10
1467.476	1467.664	1468.303	1469.289	1469.380	15
1469.748	1470.069	1470.433	1471.481	1471.918	20
1472.209	1473.417	1473.622	1474.358	1474.925	25
1476.099	1476.174	1476.425	1477.251	1477.544	30
1478.133	1480.240	1480.650			35

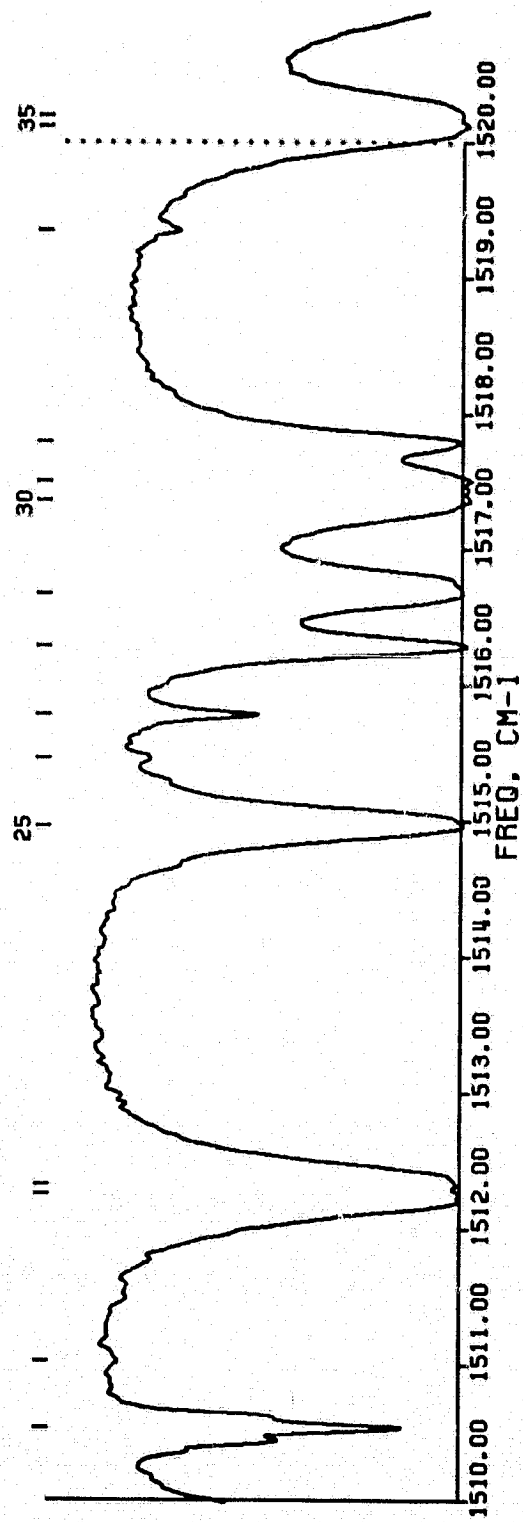
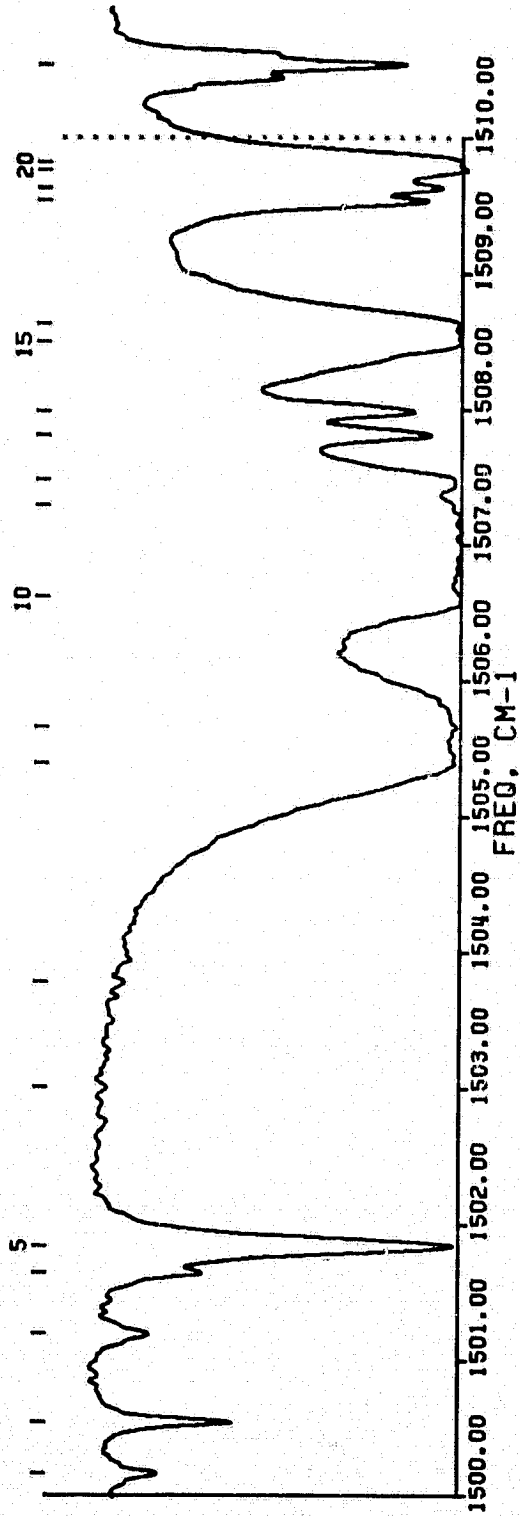


1480.240	1481.242	1481.785	1481.981	1482.488	5
1483.147	1483.453	1483.934	1484.973	1485.136	10
1486.160	1487.301	1487.390	1489.042	1489.303	15
1489.798	1490.796	1490.899	1491.384	1492.970	20
1493.303	1494.300	1494.868	1496.161	1496.301	25
1498.721	1498.880	1500.162	1500.539	1500.889	30



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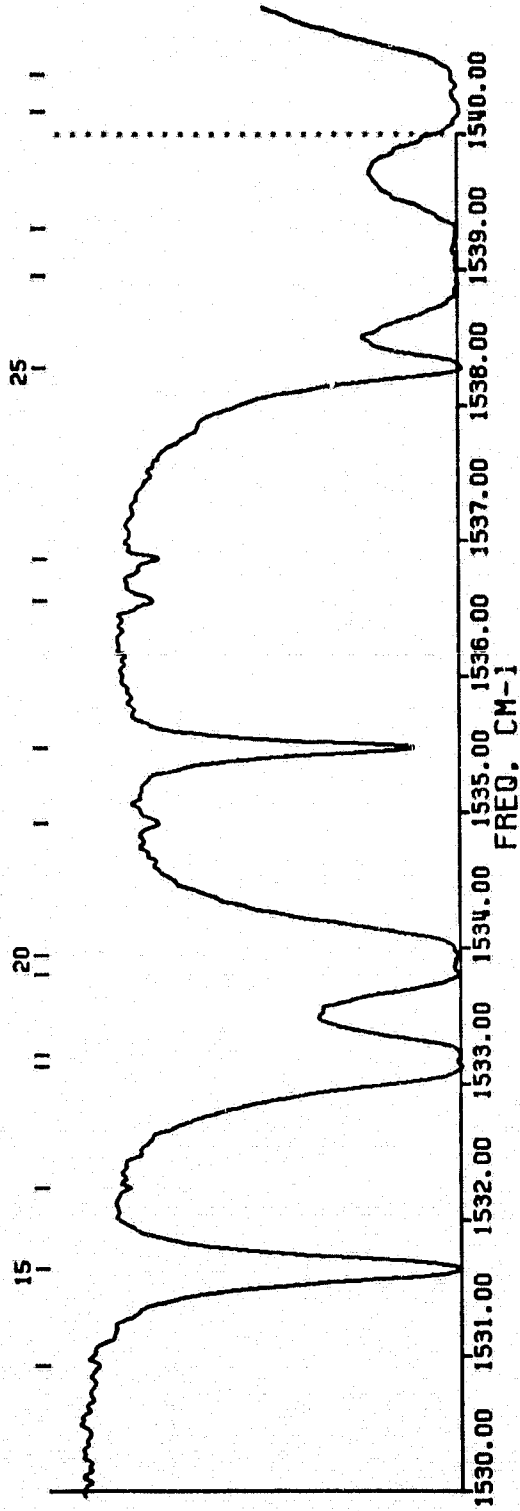
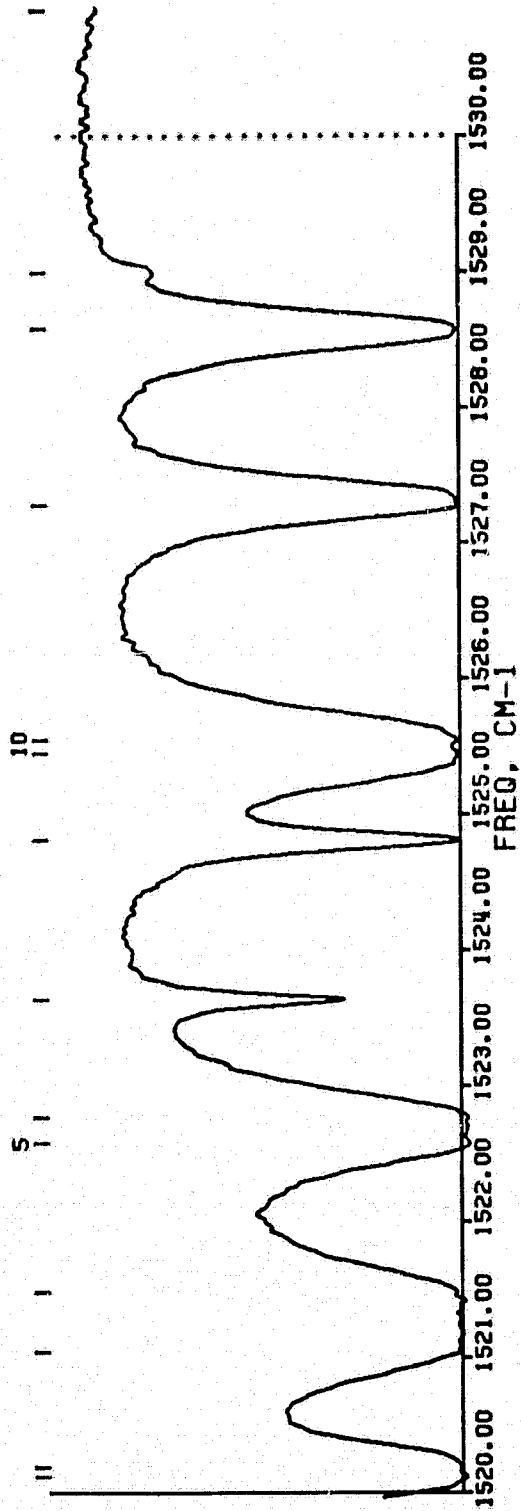
1500.163	1500.539	1501.189	1501.638	1501.838	5
1503.003	1503.781	1505.391	1505.660	1506.617	10
1507.290	1507.480	1507.809	1507.981	1508.491	15
1508.625	1509.535	1509.630	1509.761	1509.818	20
1510.535	1511.025	1512.255	1512.323	1514.968	25
1515.460	1515.781	1516.283	1516.675	1517.361	30
1517.501	1517.790	1519.346	1520.120	1520.194	35



179

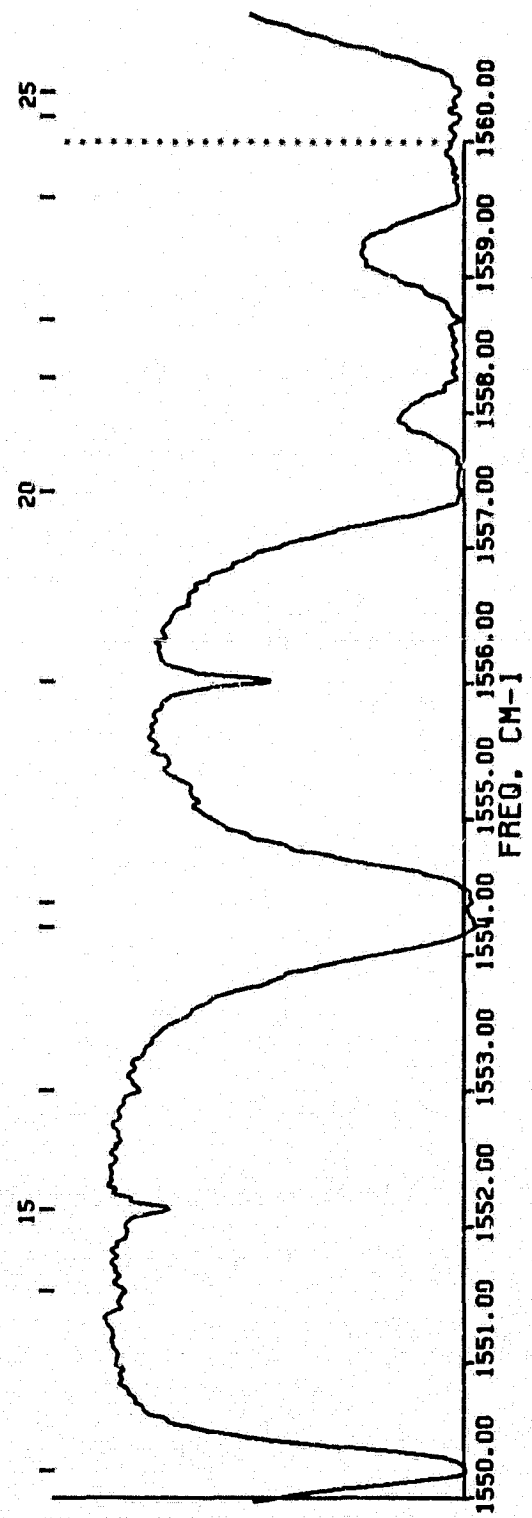
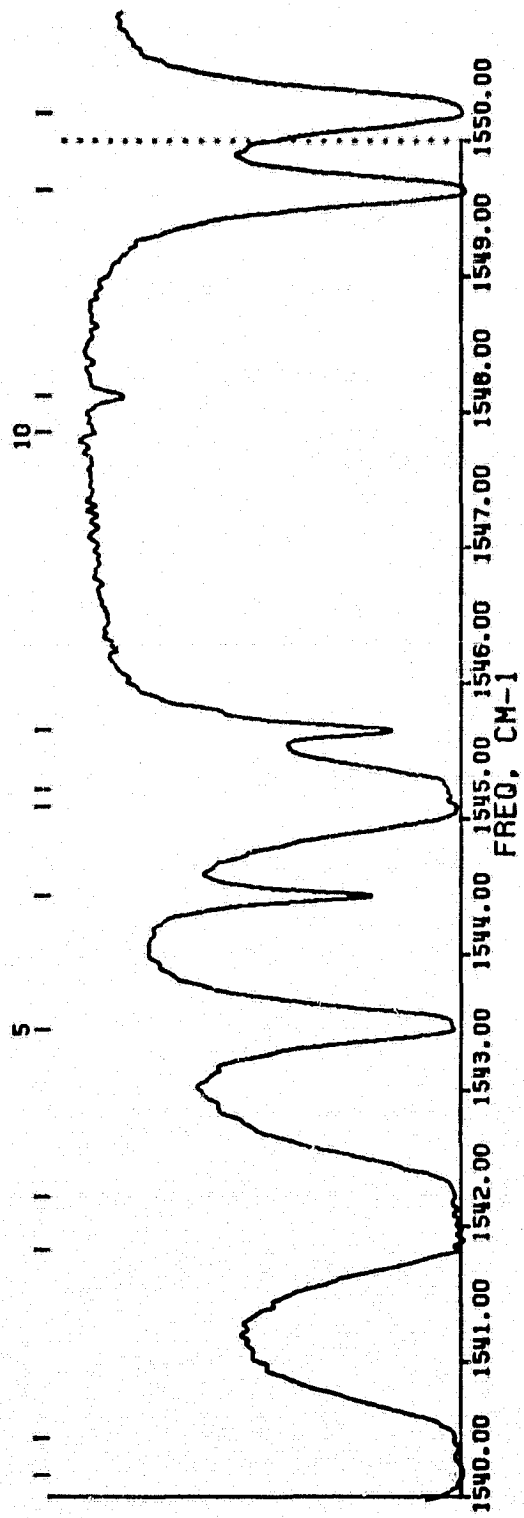


1520.120	1520.194	1521.038	1521.480	1522.578	5
1522.769	1523.638	1524.811	1525.449	1525.546	10
1527.273	1528.578	1528.989	1530.925	1531.637	15
1532.235	1533.130	1533.218	1533.810	1533.953	20
1534.923	1535.476	1536.559	1536.872	1538.278	25
1538.957	1539.308	1540.164	1540.439		30



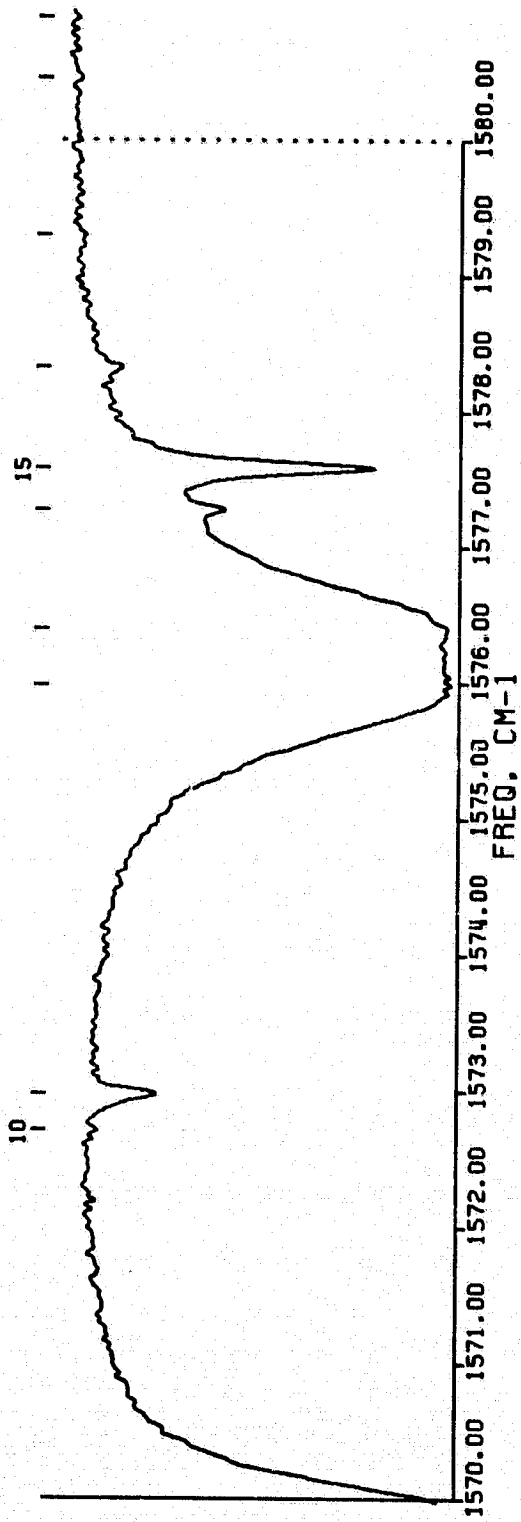
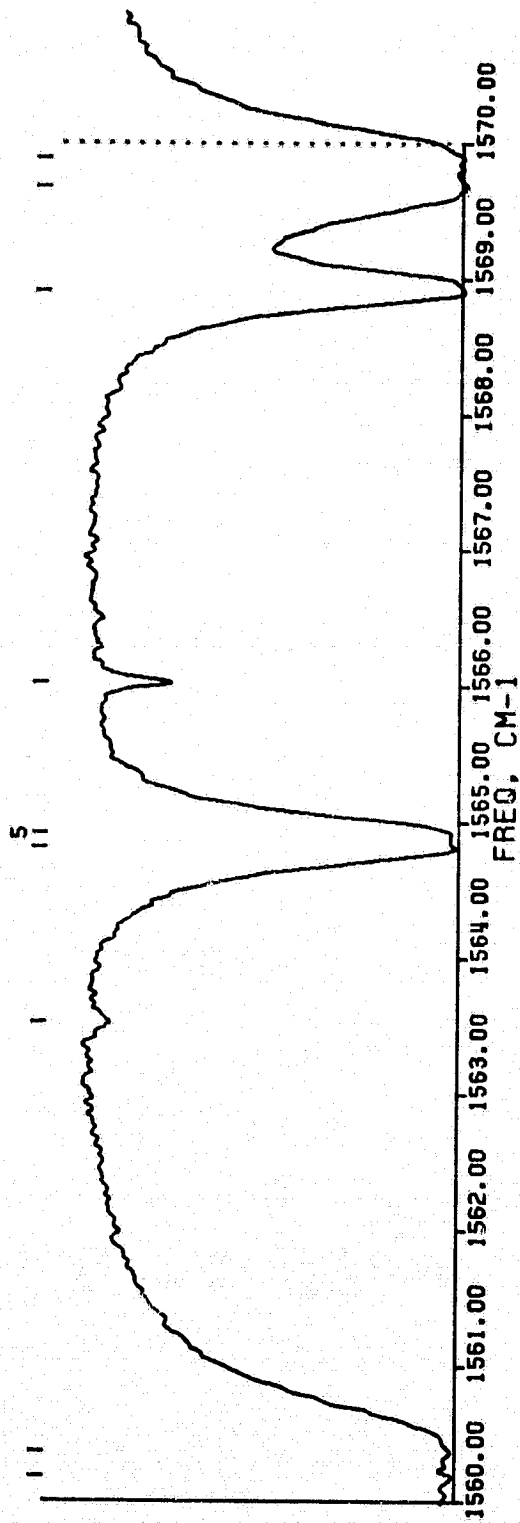
51

1540.164	1540.439	1541.820	1542.214	1543.450	5
1544.432	1545.092	1545.218	1545.650	1547.847	10
1548.114	1549.636	1550.203	1551.525	1552.131	15
1553.005	1554.212	1554.391	1556.024	1557.424	20
1558.259	1558.690	1559.593	1560.185	1560.369	25



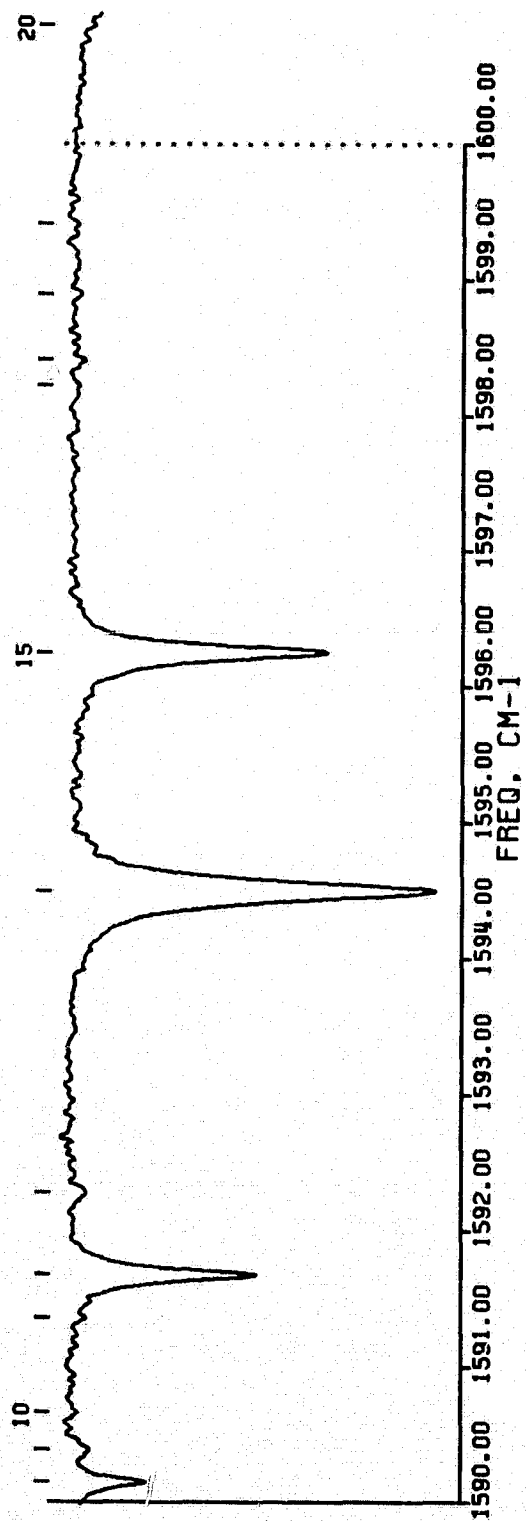
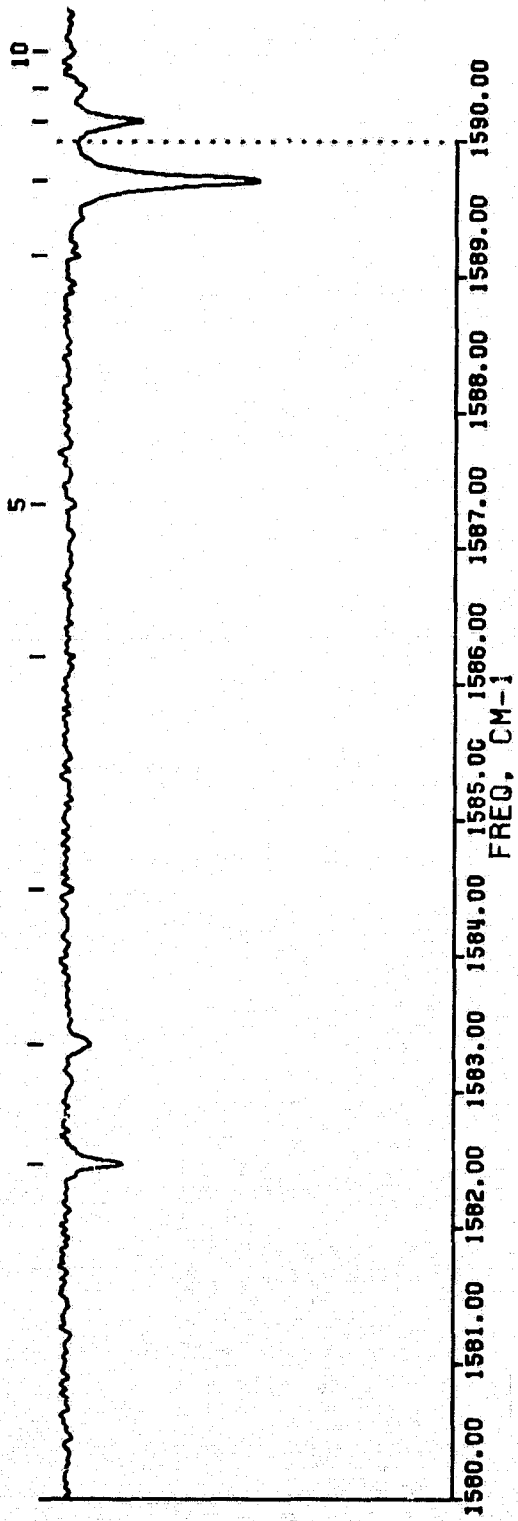
1560.185	1560.369	1563.526	1564.812	1564.914	5
1566.023	1568.908	1569.678	1569.889	1572.711	10
1572.979	1575.988	1576.403	1577.277	1577.583	15
1578.328	1579.301	1580.455	1580.900		20

84



85-

1582.469	1583.349	1584.488	1586.201	1587.325	5
1589.156	1589.711	1590.148	1590.389	1590.662	10
1591.355	1591.674	1592.278	1594.496	1596.255	15
1598.218	1598.406	1598.894	1599.408	1600.875	20

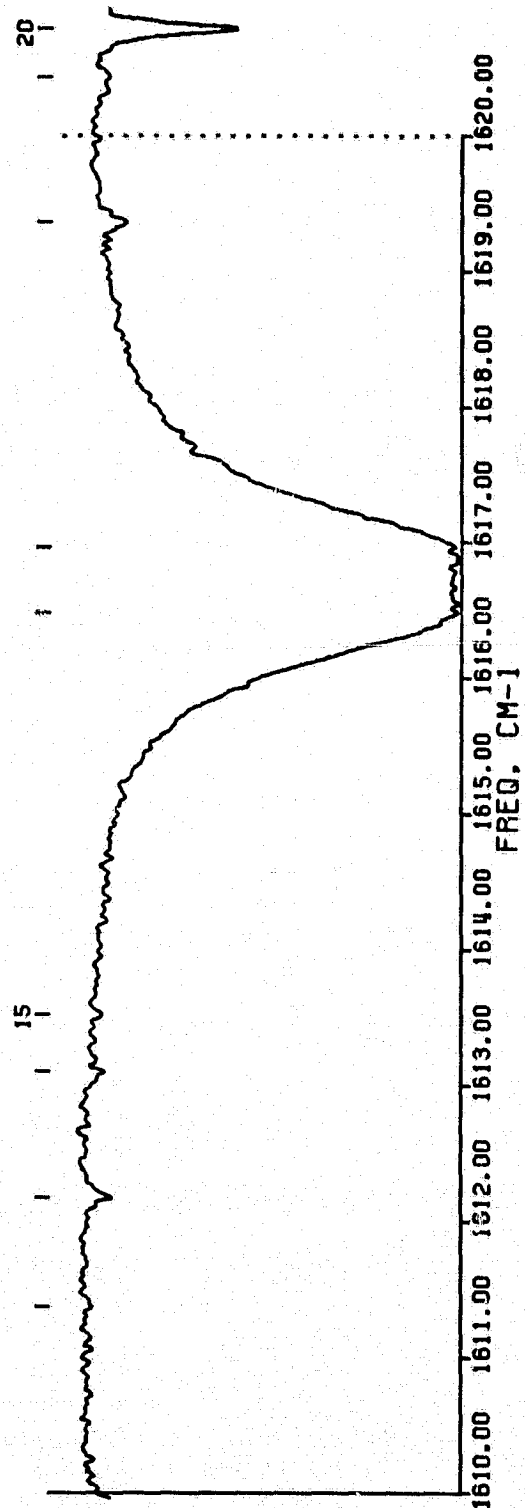
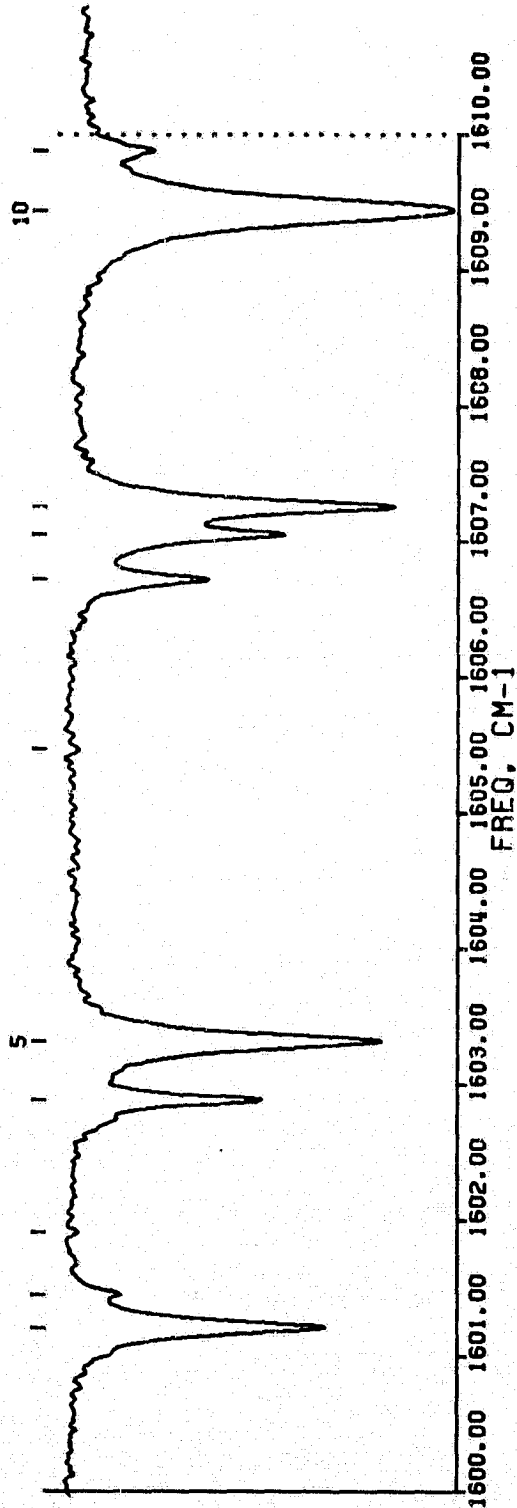


58



1601.209	1601.451	1601.911	1602.886	1603.318	5
1605.469	1606.719	1607.051	1607.255	1609.439	10
1609.883	1611.371	1612.181	1613.108	1613.530	15
1616.481	1616.969	1619.361	1620.435	1620.786	20

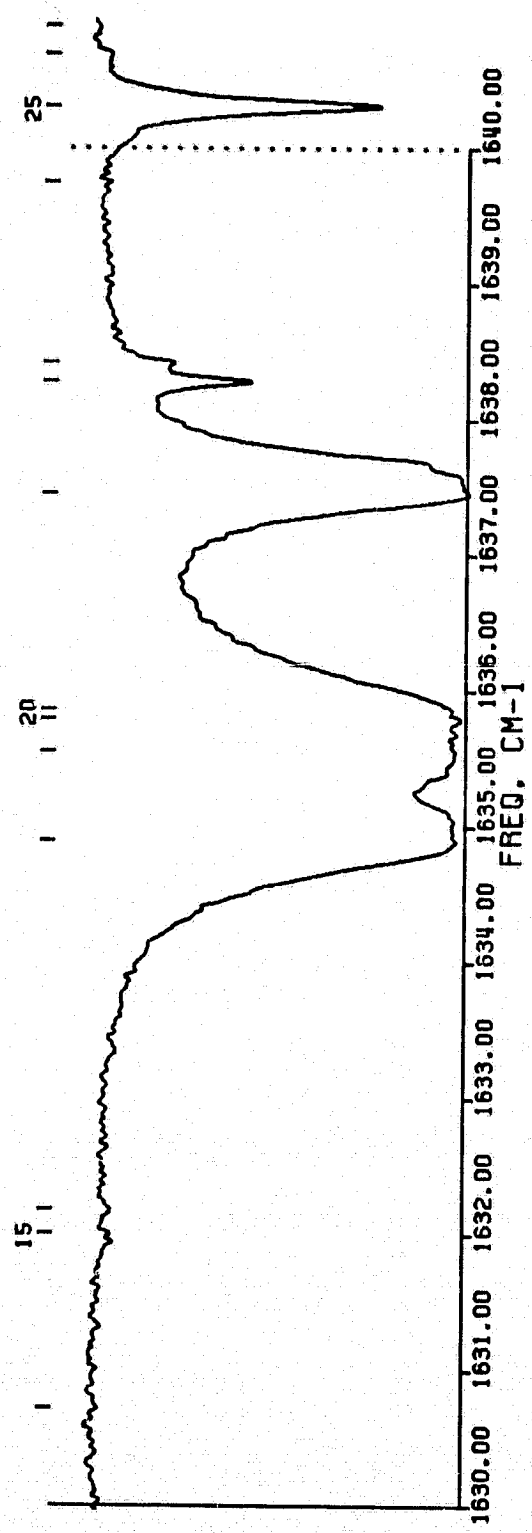
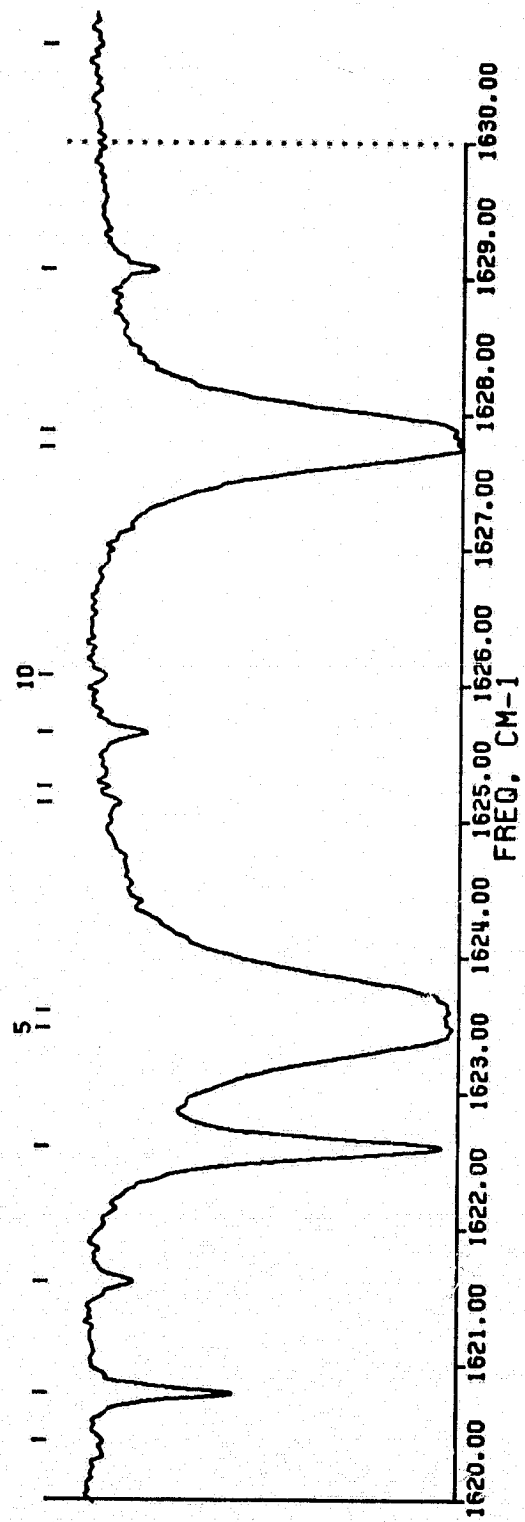
40



82

1620.433	1620.786	1621.608	1622.597	1623.472	5
1623.600	1625.134	1625.253	1625.650	1626.071	10
1627.753	1627.878	1629.062	1630.719	1632.003	15
1632.181	1634.895	1635.551	1635.791	1635.861	20
1637.453	1638.274	1638.413	1639.745	1640.309	25
1640.695	1640.898				30

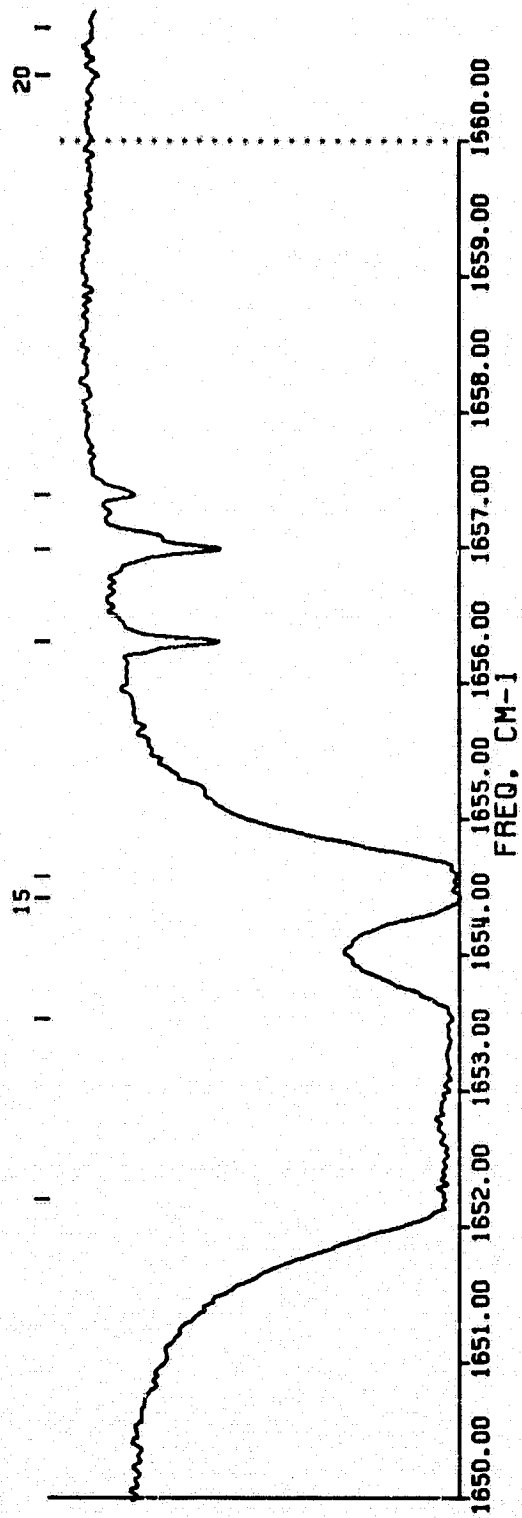
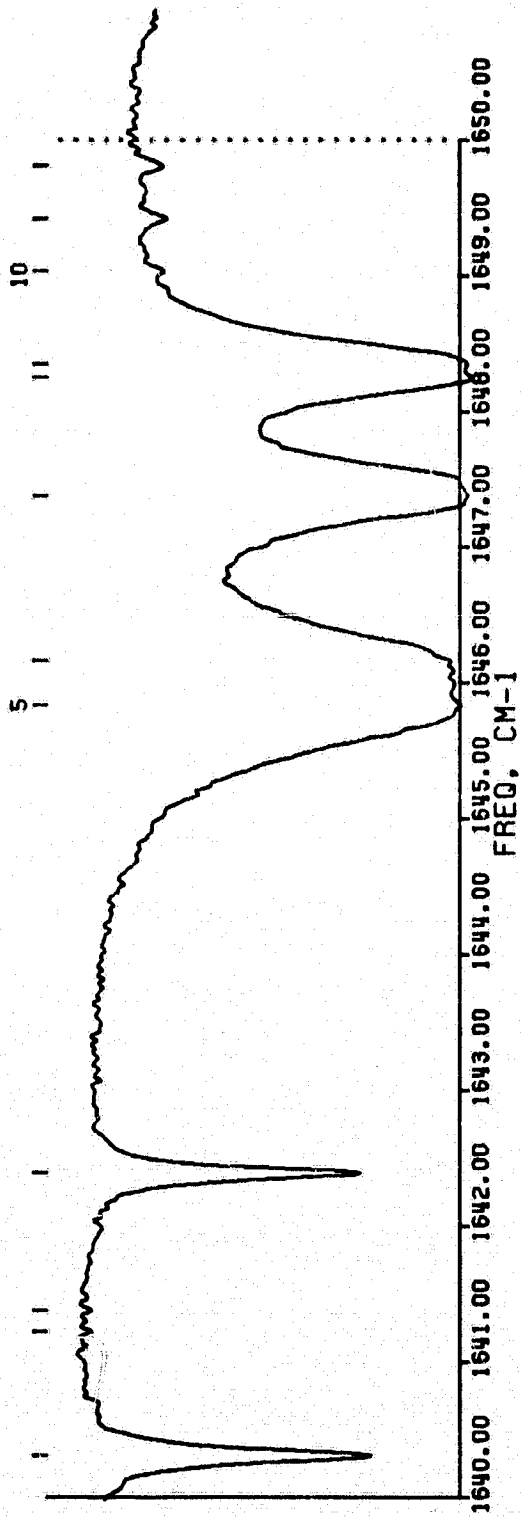
90



91

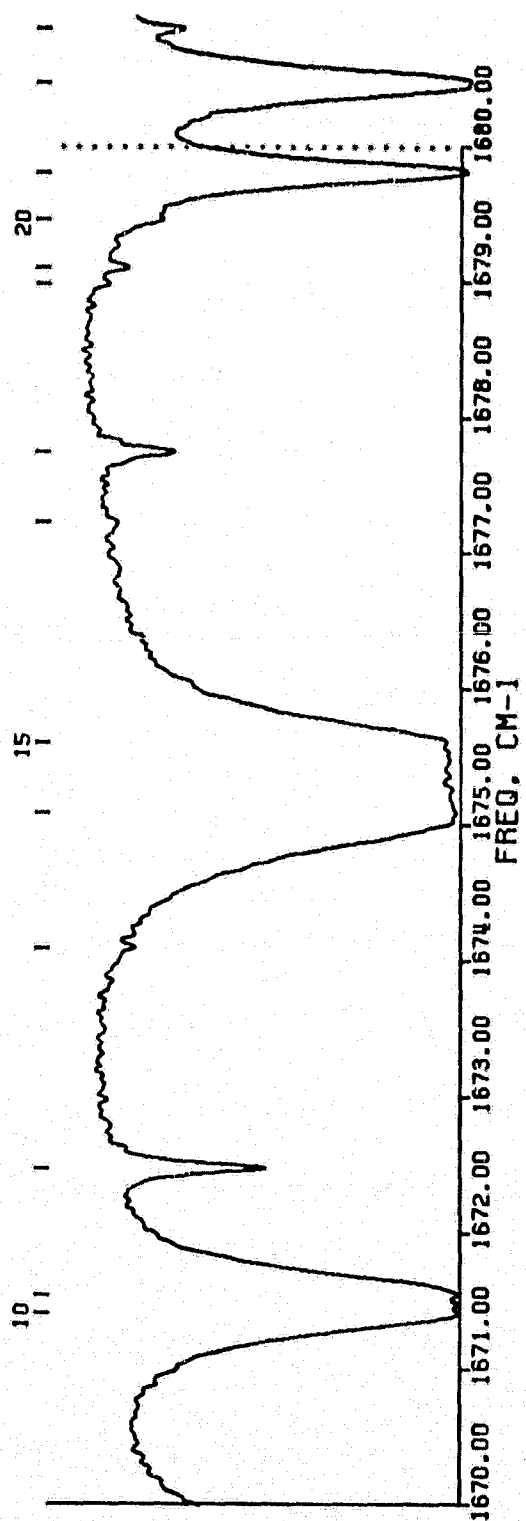
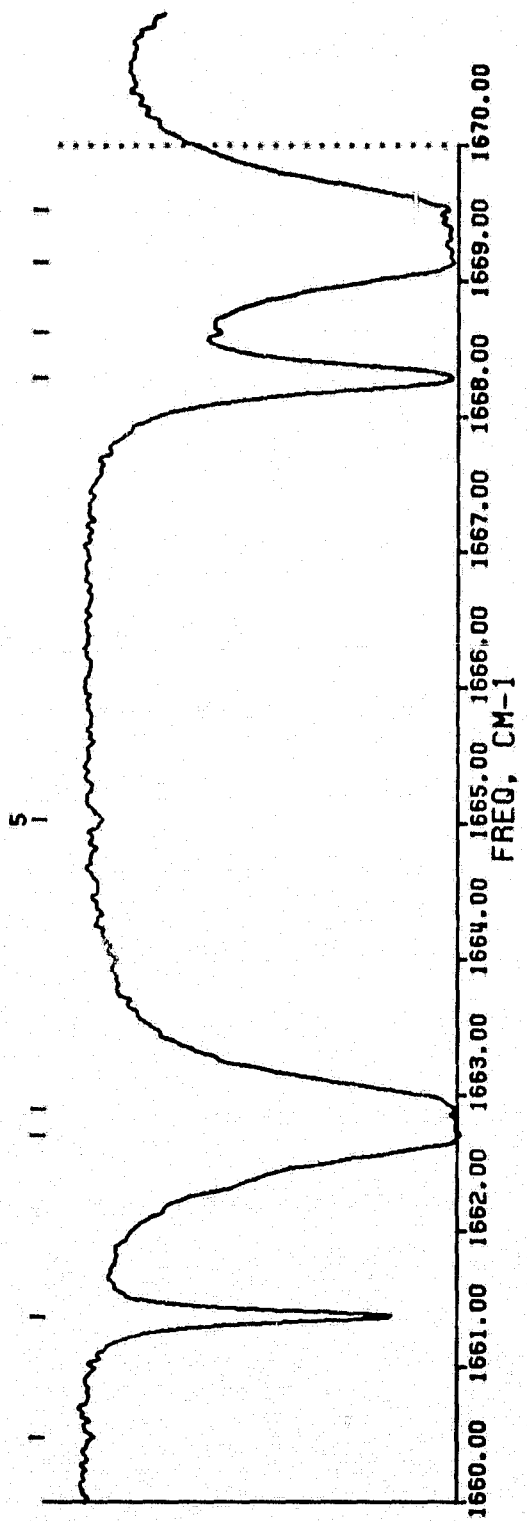
1640.309	1641.223	1641.376	1642.388	1645.836	5
1646.161	1647.376	1648.247	1648.346	1649.028	10
1649.419	1649.806	1652.196	1653.533	1654.418	15
1654.583	1656.307	1656.989	1657.387	1660.481	20
1660.830					25

22



1660.481	1661.369	1662.708	1662.894	1665.030	5
1668.281	1668.618	1669.135	1669.525	1671.408	10
1671.544	1672.475	1674.100	1675.095	1675.611	15
1677.230	1677.750	1678.988	1679.108	1679.467	20
1679.812	1680.477	1680.873			25

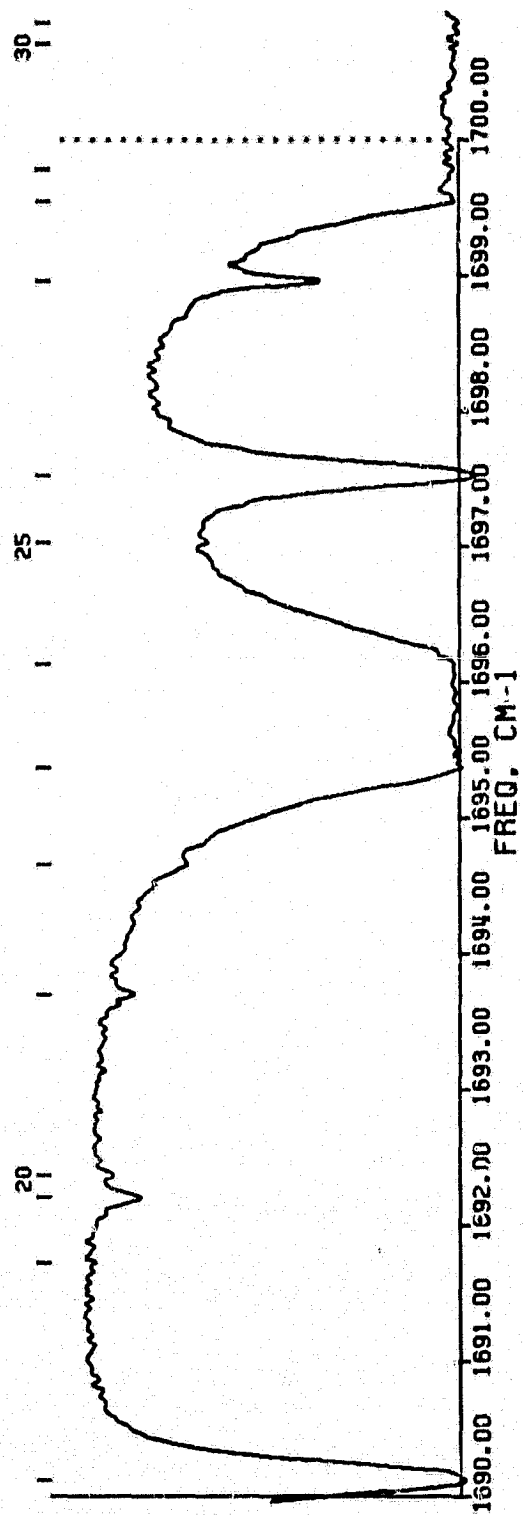
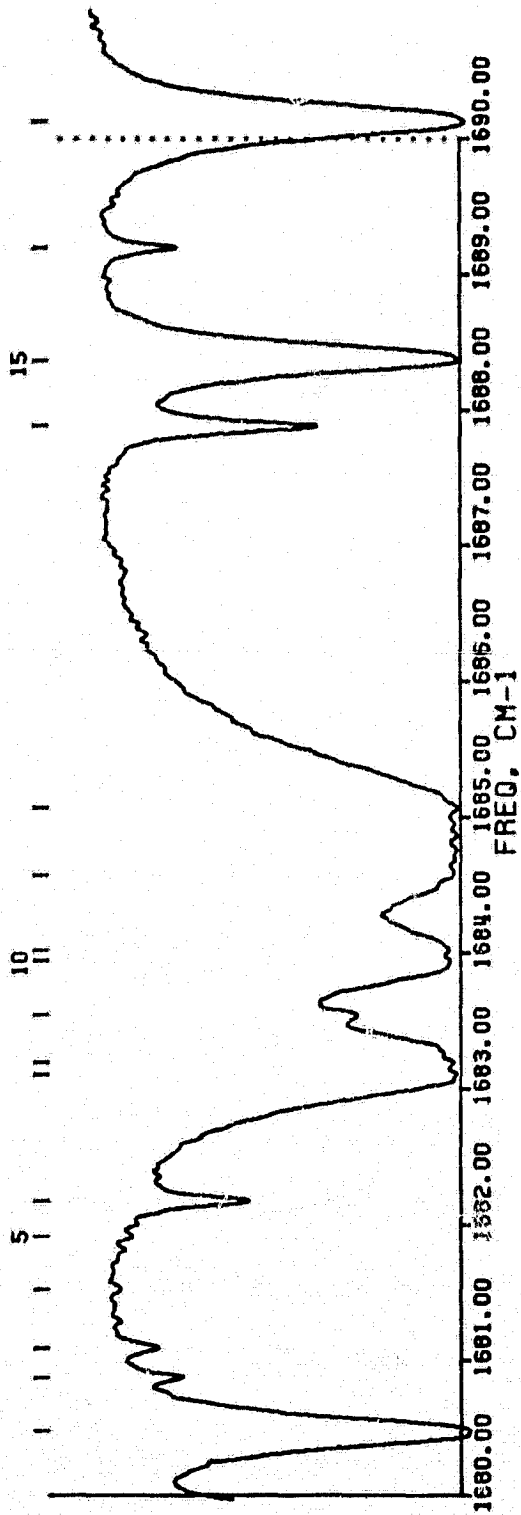
24





1680.478	1680.873	1681.089	1681.520	1681.913	5
1682.171	1683.105	1683.194	1683.541	1683.945	10
1684.021	1684.574	1685.070	1687.881	1688.363	15
1689.195	1690.123	1691.725	1692.205	1692.371	20
1693.700	1694.661	1695.373	1696.133	1697.031	25
1697.521	1698.953	1699.544	1699.784	1700.705	30
1700.861					35

42

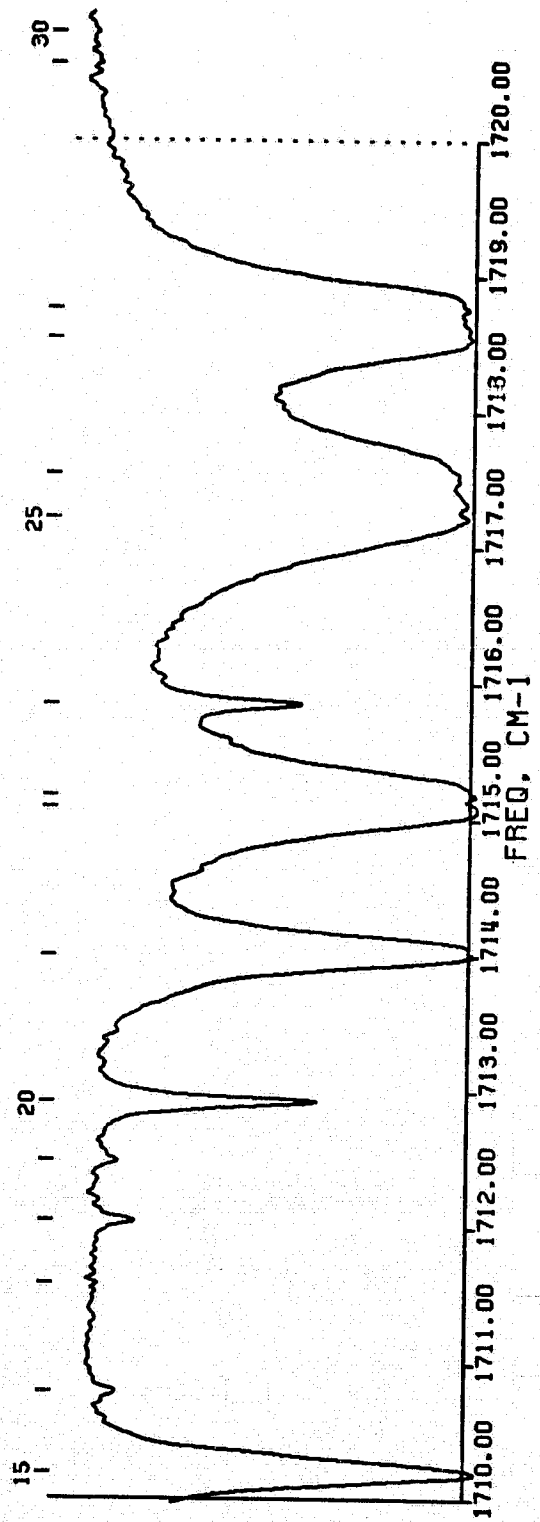
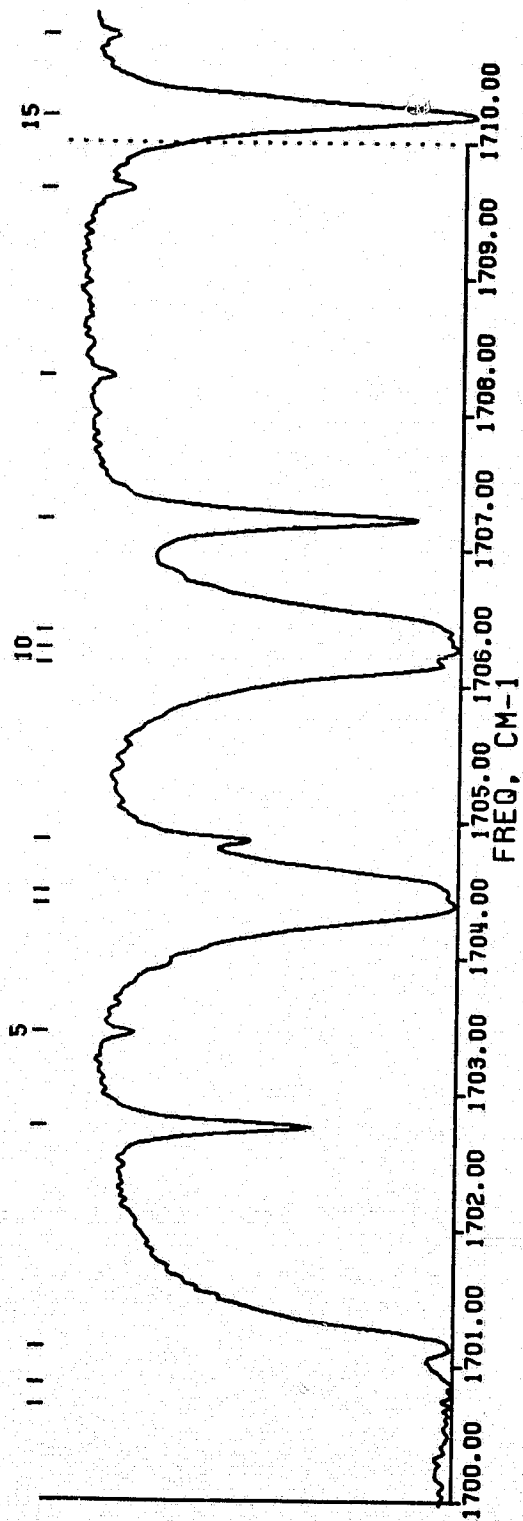


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1700.705	1700.861	1701.128	1702.753	1703.445	5
1704.393	1704.480	1704.860	1706.161	1706.275	10
1706.398	1707.221	1708.275	1709.658	1710.193	15
1710.790	1711.581	1712.044	1712.485	1712.923	20
1714.002	1715.094	1715.177	1715.848	1717.219	25
1717.544	1718.544	1718.758	1720.567	1720.795	30

C-2

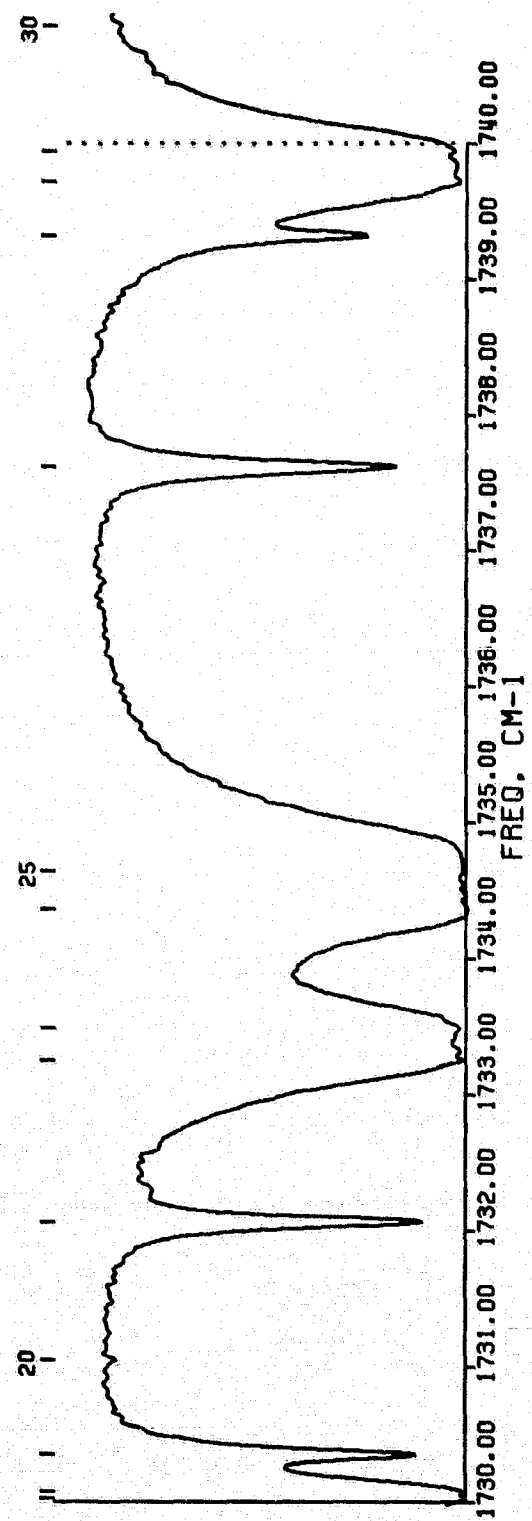
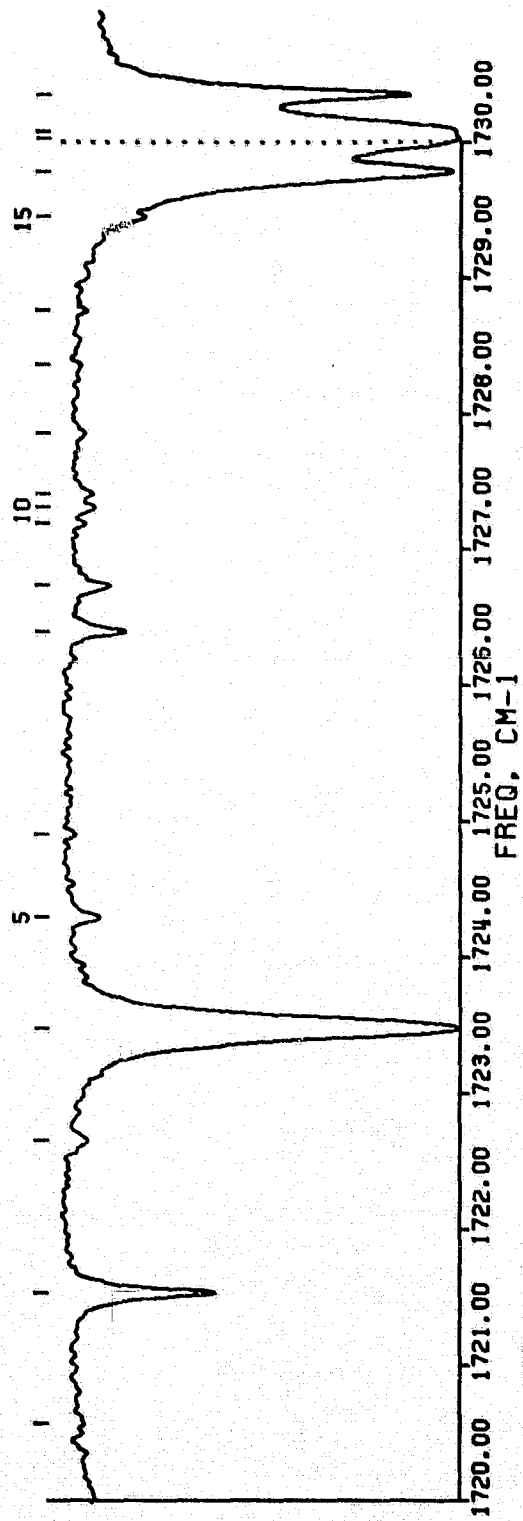
28



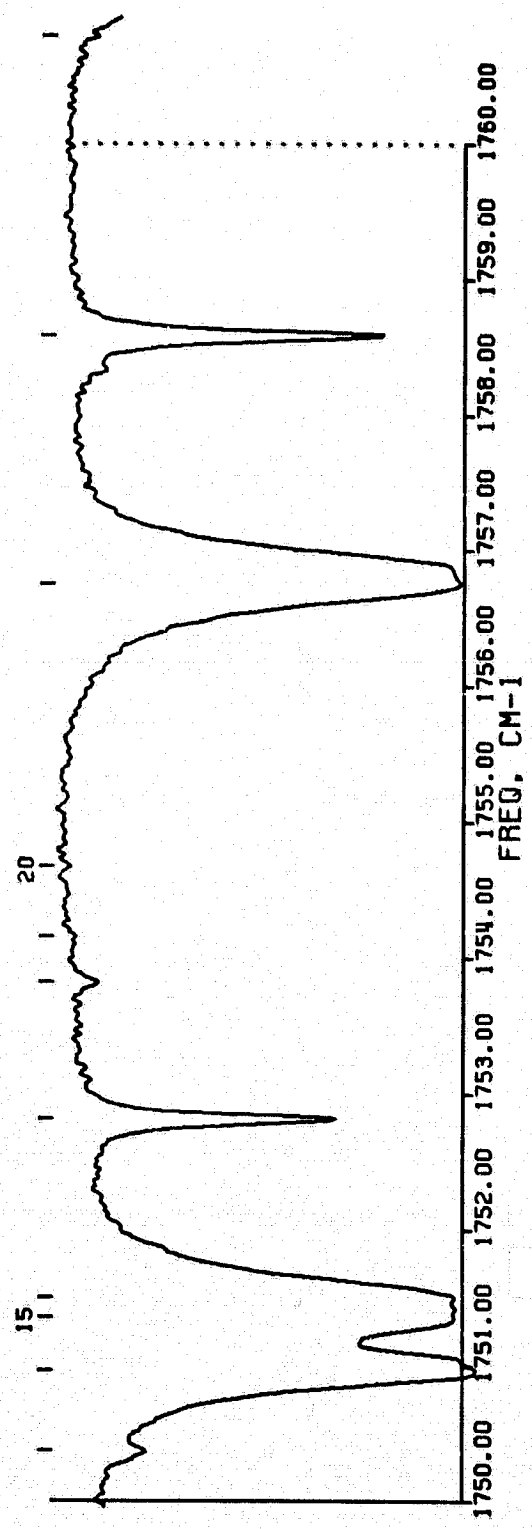
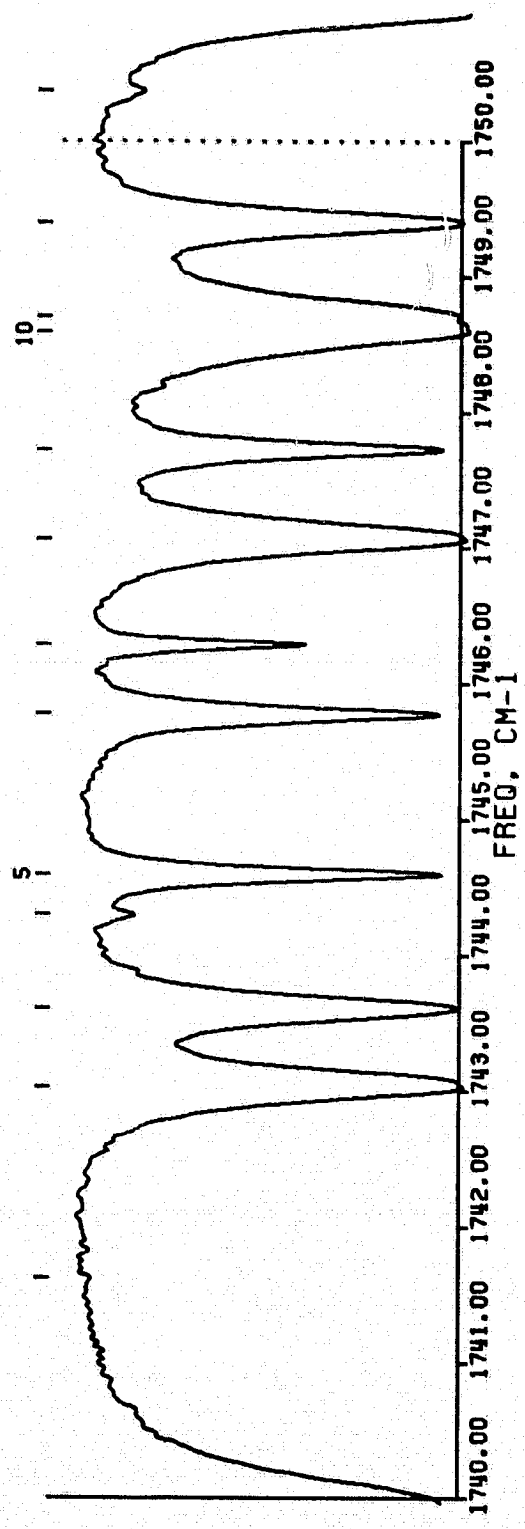
99

1720.566	1721.530	1722.647	1723.475	1724.291	5
1724.905	1726.393	1726.735	1727.188	1727.308	10
1727.406	1727.855	1728.357	1728.758	1729.451	15
1729.781	1730.027	1730.078	1730.350	1731.048	20
1732.062	1733.253	1733.488	1734.363	1734.646	25
1737.616	1739.318	1739.720	1739.941	1740.868	30

6720



1741.620	1743.025	1743.611	1744.296	1744.597	5
1745.775	1746.291	1747.063	1747.725	1748.593	10
1748.706	1749.399	1750.370	1750.963	1751.351	15
1751.497	1752.814	1753.824	1754.161	1754.676	20
1756.757	1758.585	1760.793			25

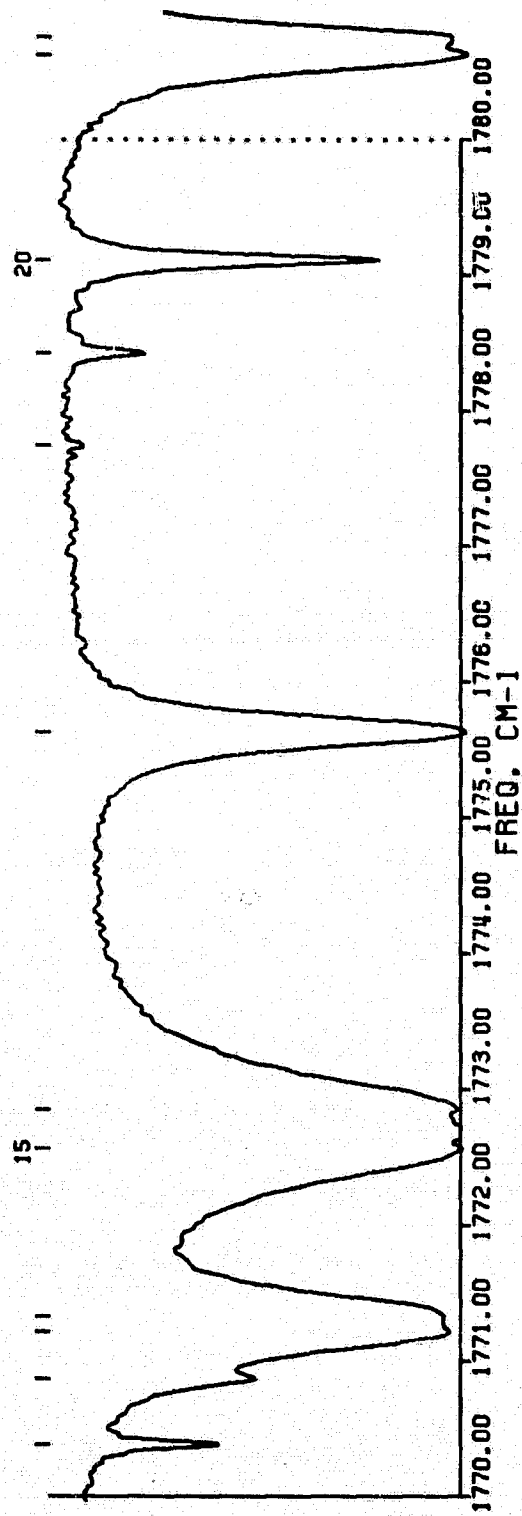
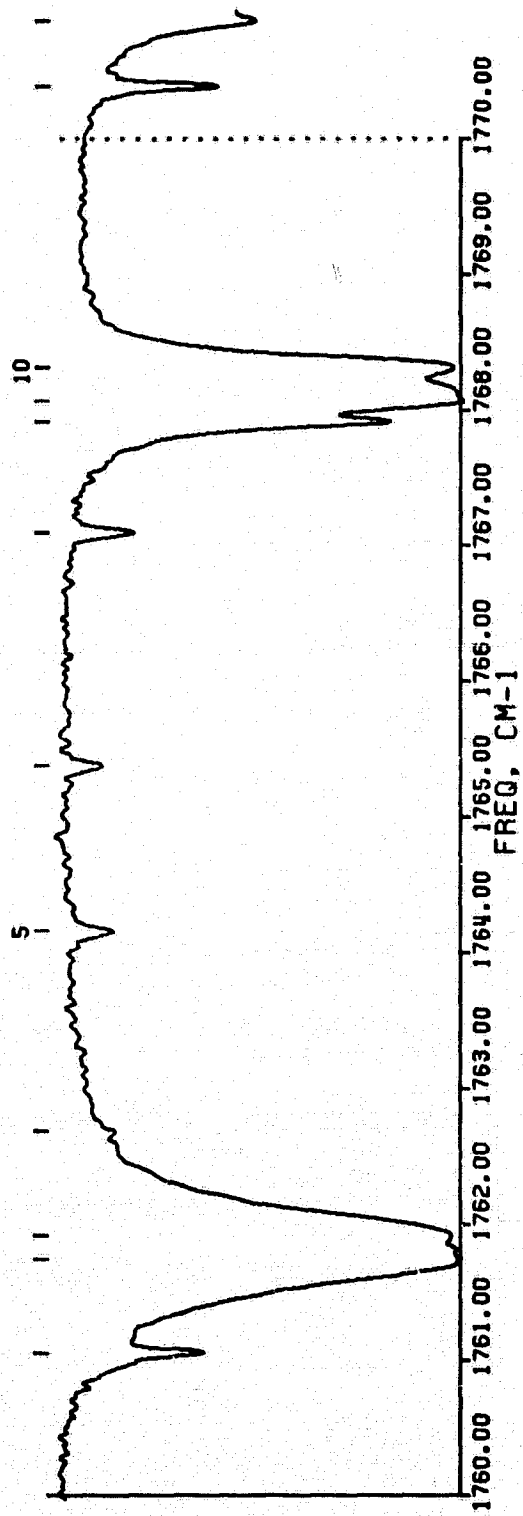


103



1761.054	1761.745	1761.919	1762.681	1764.159	5
1765.376	1767.094	1767.913	1768.066	1768.311	10
1770.385	1770.868	1771.212	1771.326	1772.566	15
1772.852	1775.628	1777.741	1778.422	1779.109	20
1780.625	1780.751				25

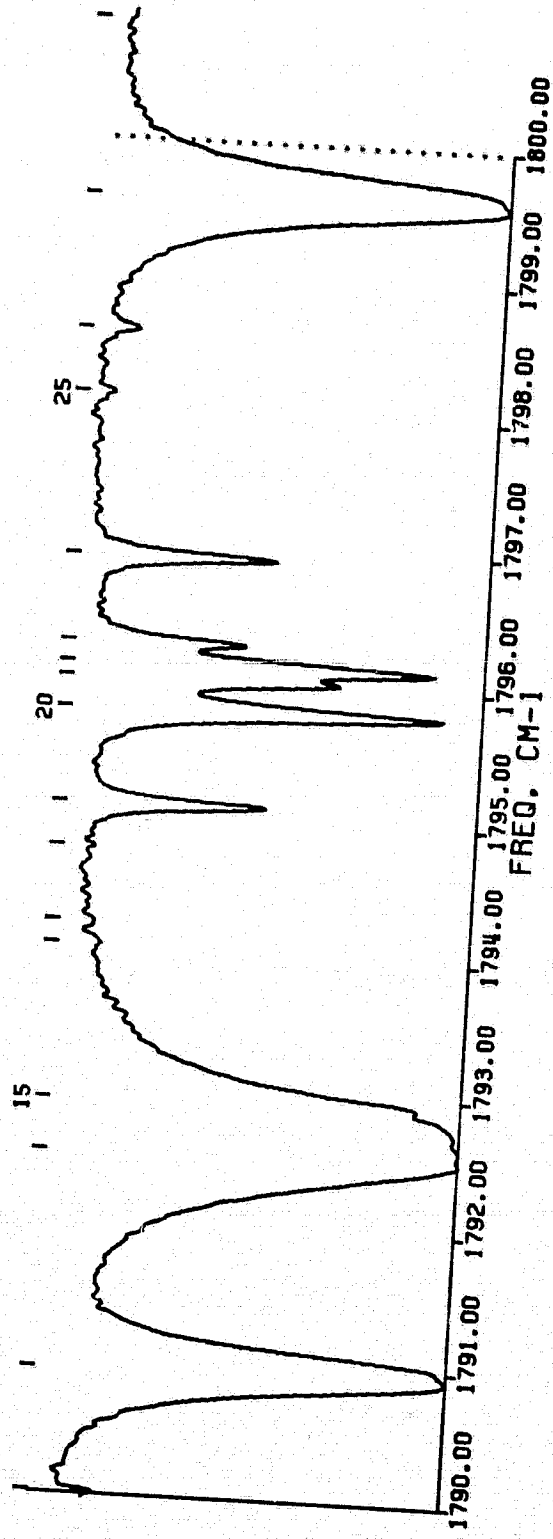
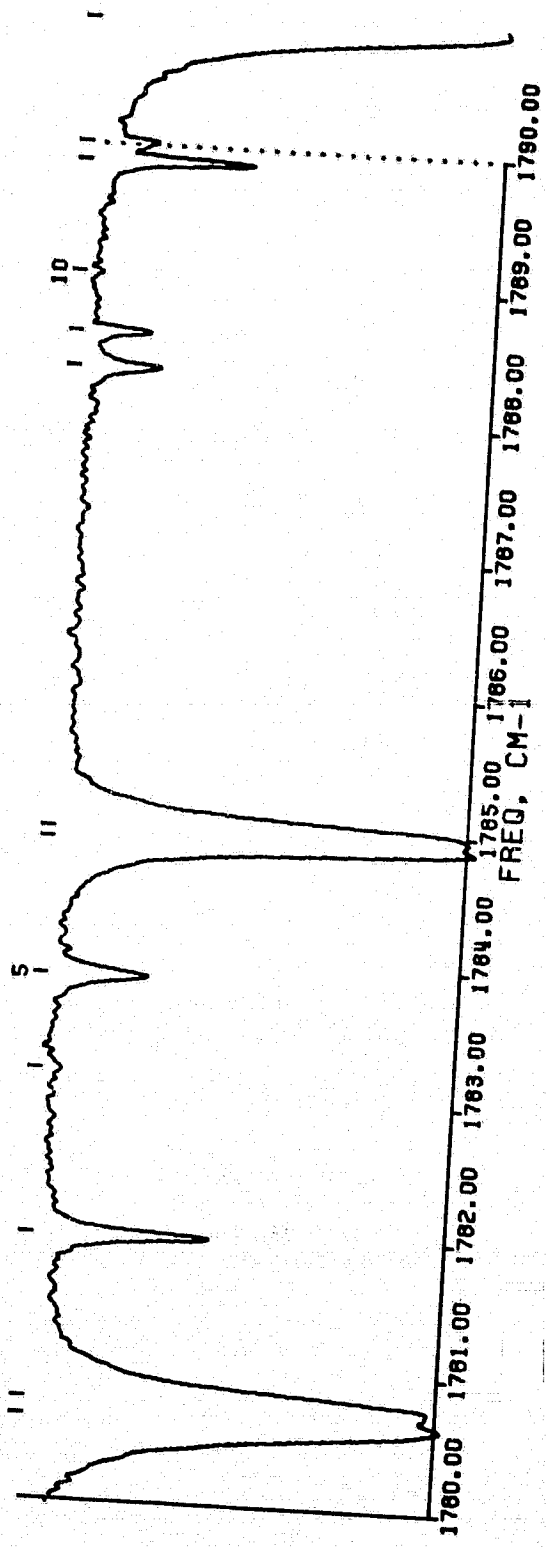
104



105

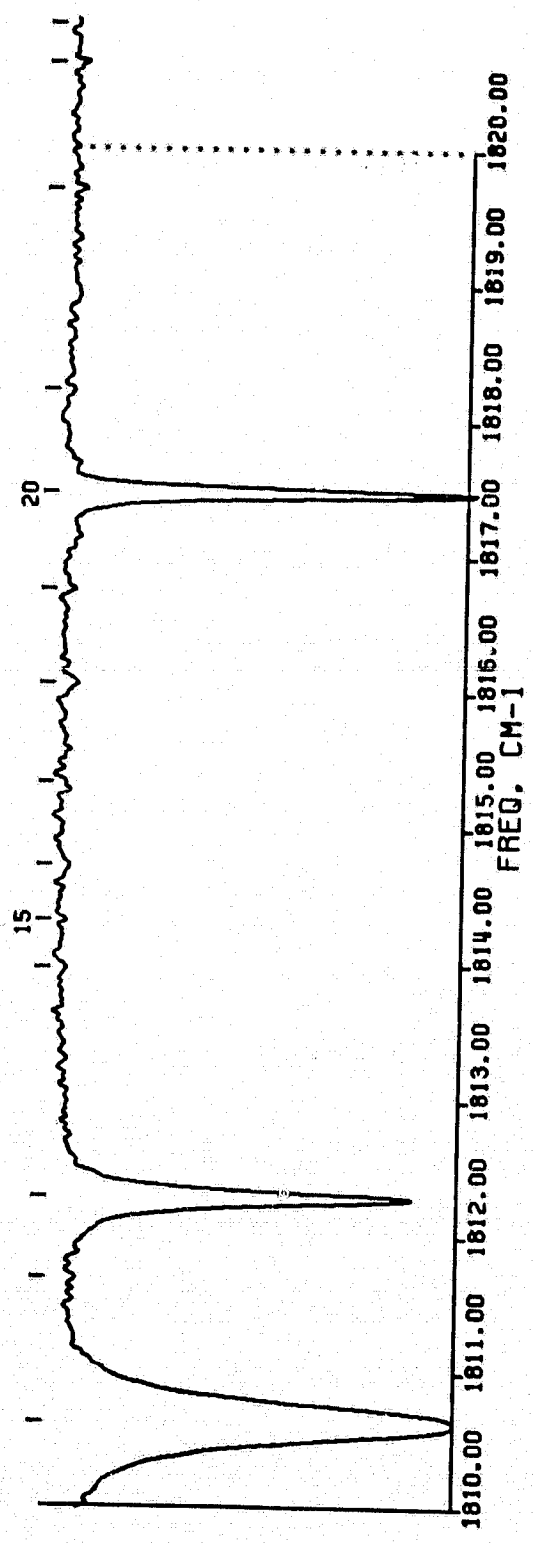
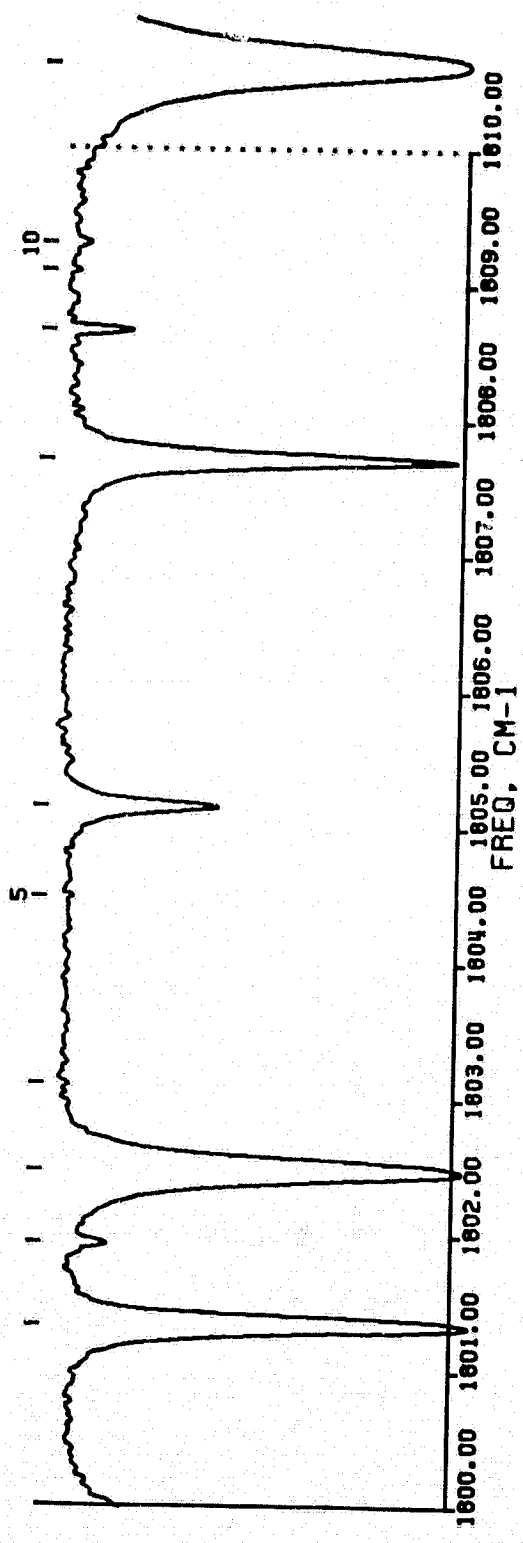
1780.625	1780.751	1781.963	1783.173	1783.872	5
1784.882	1784.961	1788.355	1788.611	1789.051	10
1789.878	1790.013	1790.925	1792.530	1792.916	15
1794.057	1794.223	1794.773	1795.100	1795.800	20
1796.026	1796.131	1796.290	1796.922	1798.121	25
1798.588	1799.588	1800.887			30

106



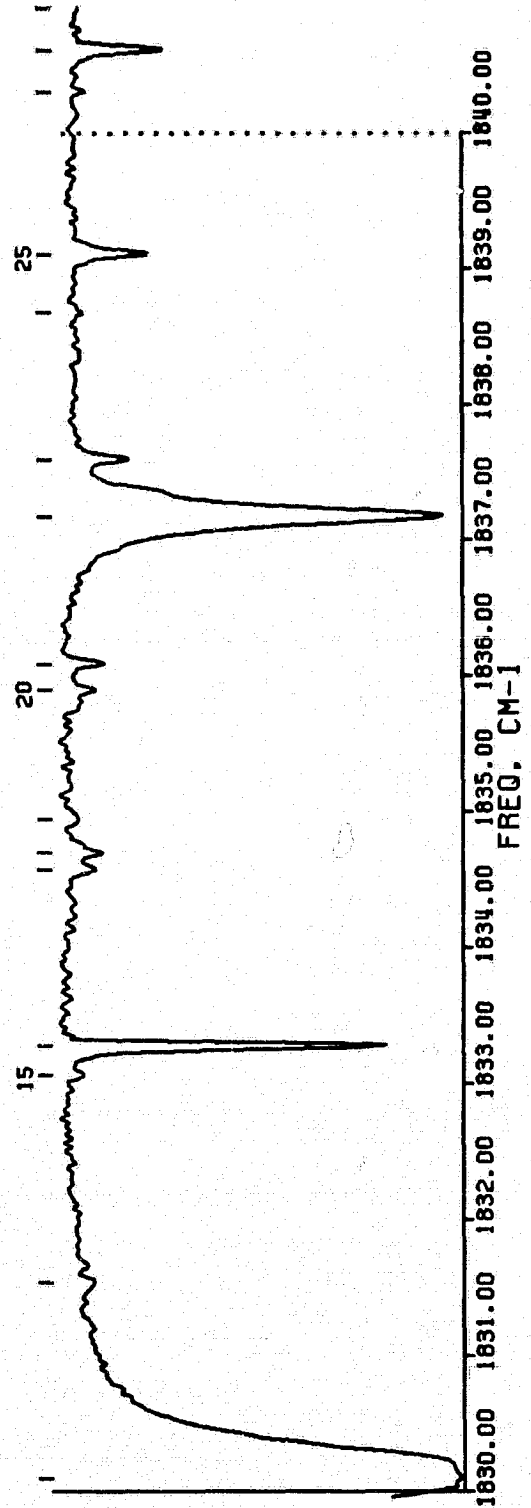
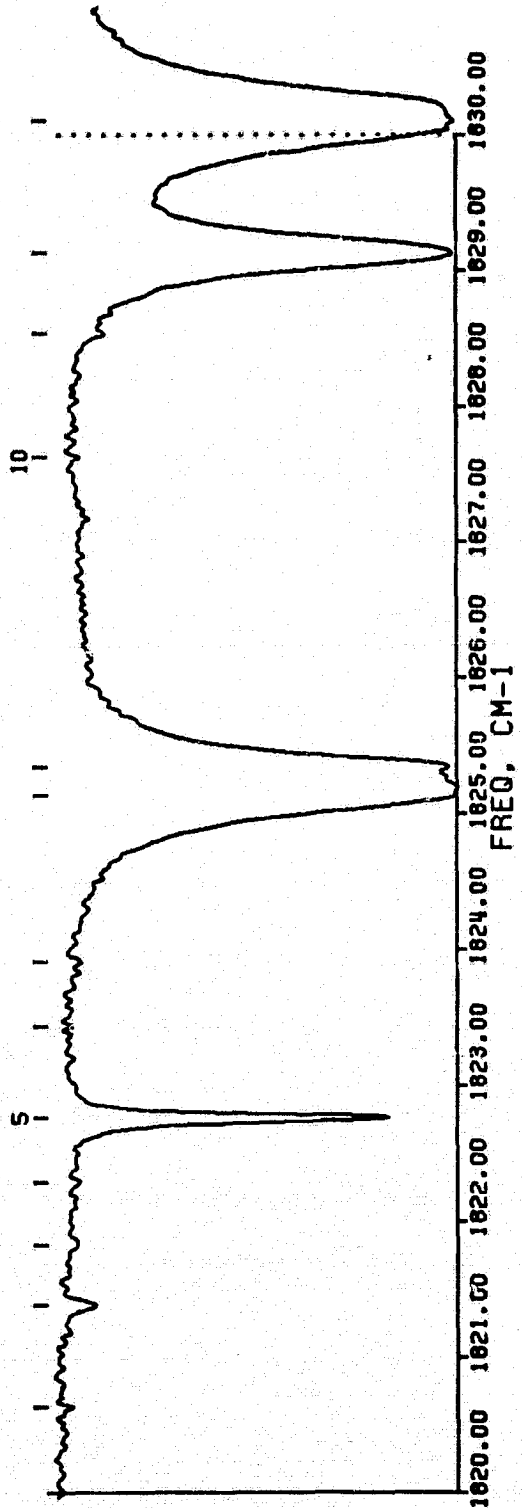
107

1801.326 1801.933 1802.466 1803.100 1804.483 5  
1805.148 1807.705 1808.656 1809.093 1809.300 10  
1810.621 1811.683 1812.277 1813.962 1814.311 15  
1814.717 1815.330 1816.055 1816.748 1817.464 20  
  
1818.217 1819.699 1820.631 1820.916 25



501

1820.631	1821.382	1821.821	1822.286	1822.760	5
1823.435	1823.909	1825.136	1825.346	1827.621	10
1828.533	1829.129	1830.102	1831.543	1833.070	15
1833.283	1834.584	1834.703	1834.948	1835.903	20
1836.095	1837.180	1837.600	1838.680	1839.111	25
1840.310	1840.616	1840.922			30

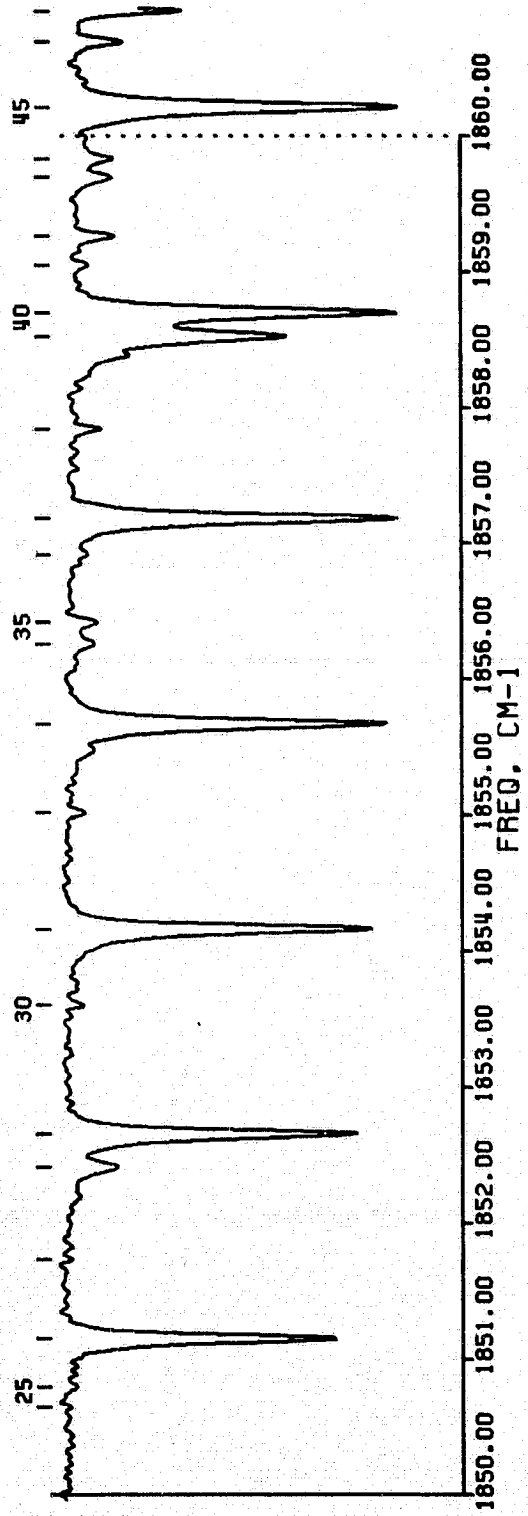
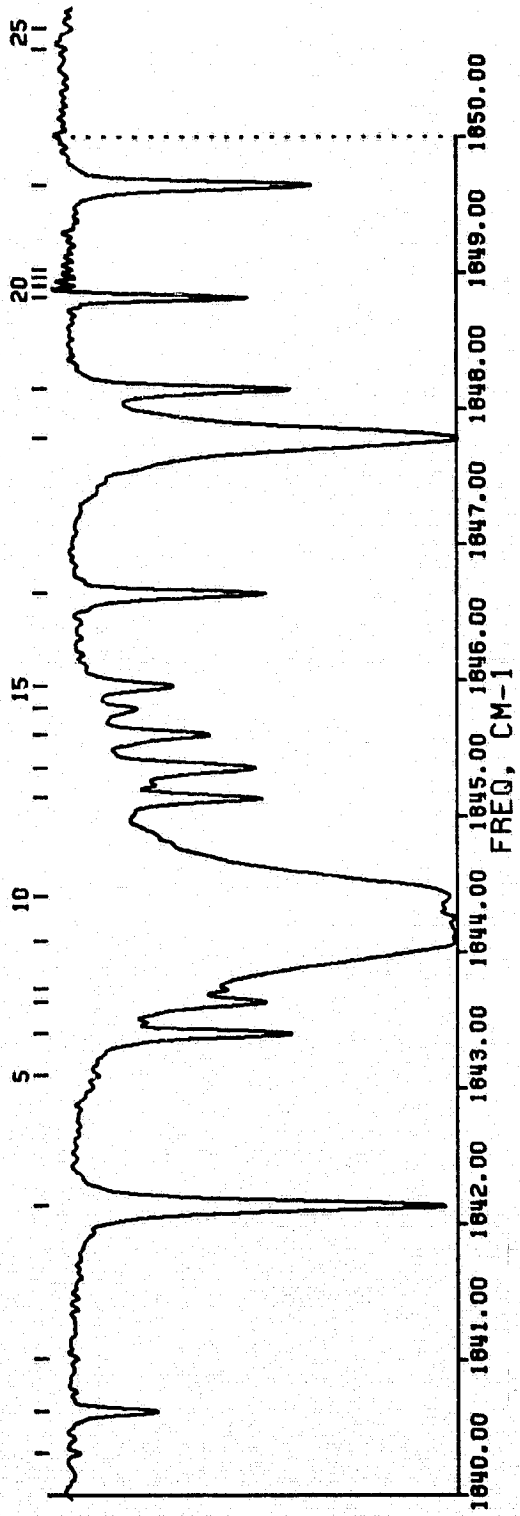


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1840.310	1840.616	1841.003	1842.130	1843.087	5
1843.397	1843.630	1843.723	1844.075	1844.406	10
1845.130	1845.353	1845.596	1845.789	1845.953	15
1846.635	1847.779	1848.140	1848.812	1848.900	20
1848.961	1849.019	1849.644	1850.644	1850.795	25
1851.150	1851.734	1852.413	1852.656	1853.604	30
1854.163	1855.019	1855.672	1856.263	1856.420	35
1856.921	1857.182	1857.844	1858.522	1858.693	40
1859.050	1859.261	1859.694	1859.831	1860.210	45
1860.690	1860.918				50

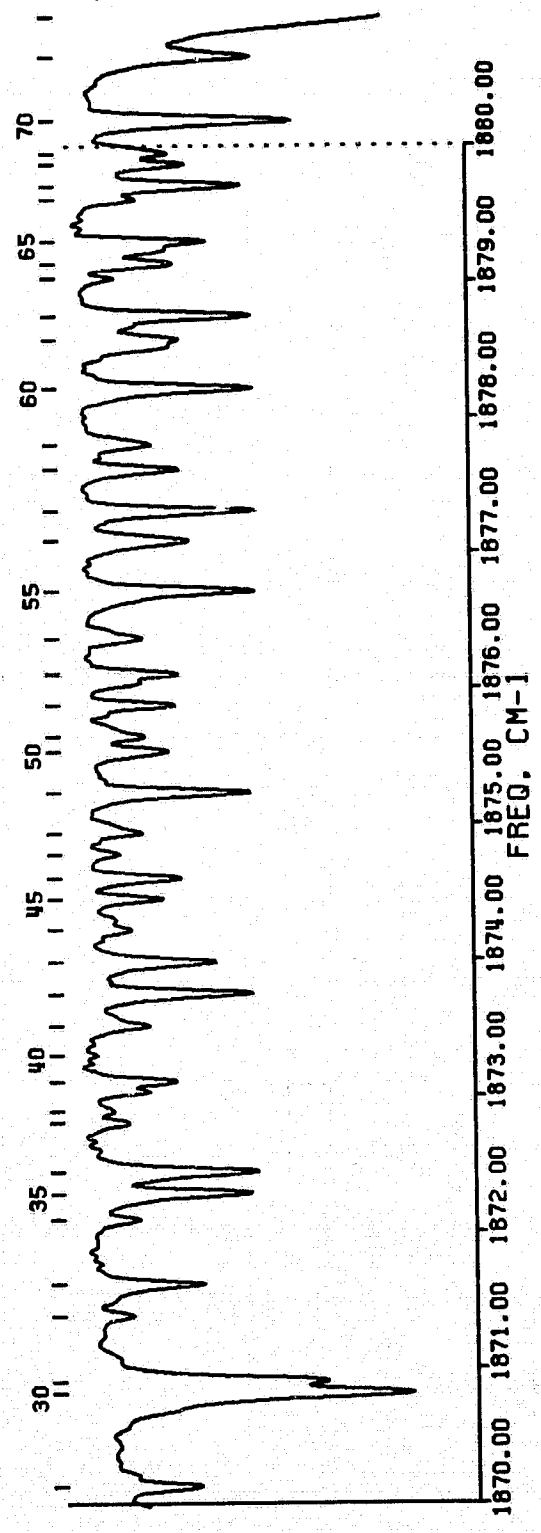
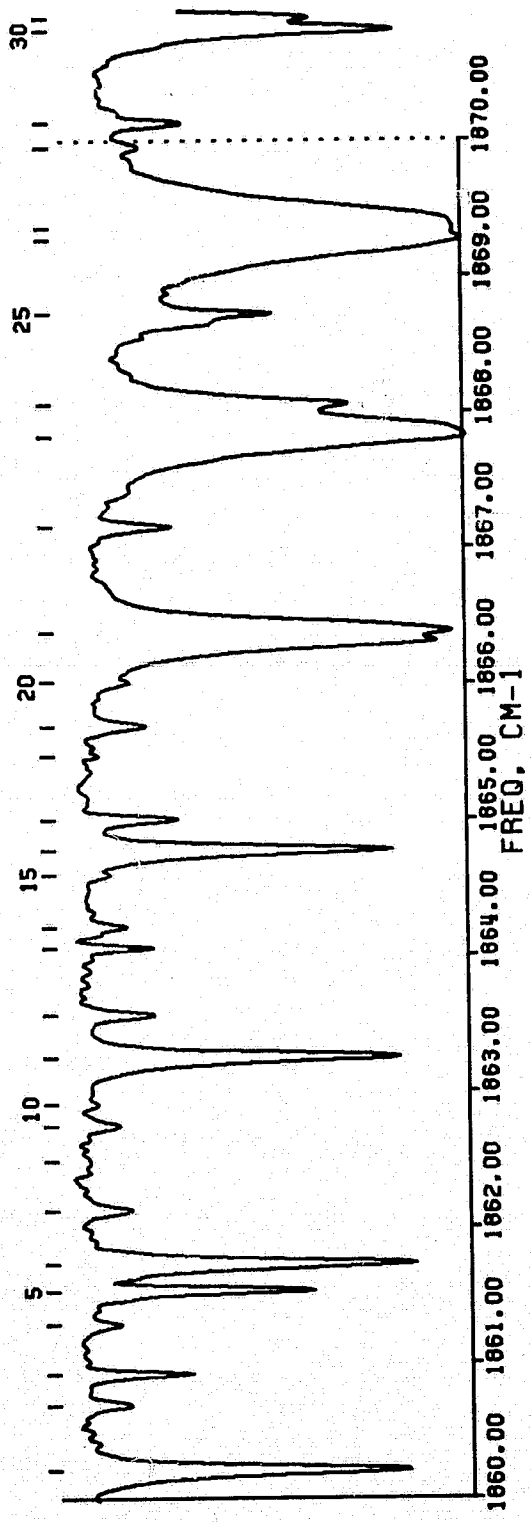
112



113

1860.210	1860.690	1860.918	1861.281	1861.531	5
1861.731	1862.125	1862.486	1862.747	1862.906	10
1863.250	1863.564	1864.056	1864.211	1864.595	15
1864.775	1865.003	1865.472	1865.688	1866.013	20
1866.381	1867.156	1867.825	1868.057	1868.722	25
1869.271	1869.353	1869.951	1870.128	1870.812	30
1870.900	1871.385	1871.617	1872.095	1872.286	35
1872.444	1872.806	1872.892	1873.113	1873.307	40
1873.521	1873.758	1873.990	1874.227	1874.455	45
1874.606	1874.785	1874.941	1875.236	1875.540	50
1875.651	1875.881	1876.110	1876.373	1876.719	55
1877.090	1877.310	1877.616	1877.799	1878.212	60
1878.573	1878.746	1879.025	1879.132	1879.296	65
1879.605	1879.707	1879.865	1879.943	1880.184	70
1880.658	1880.947				75

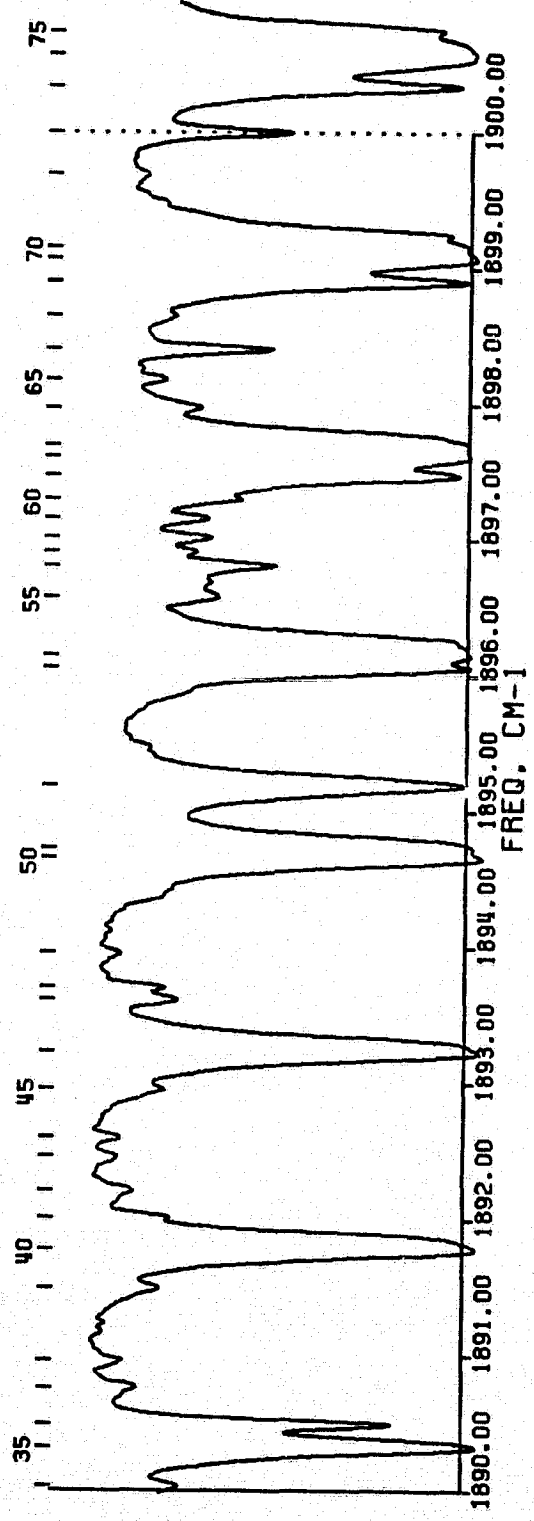
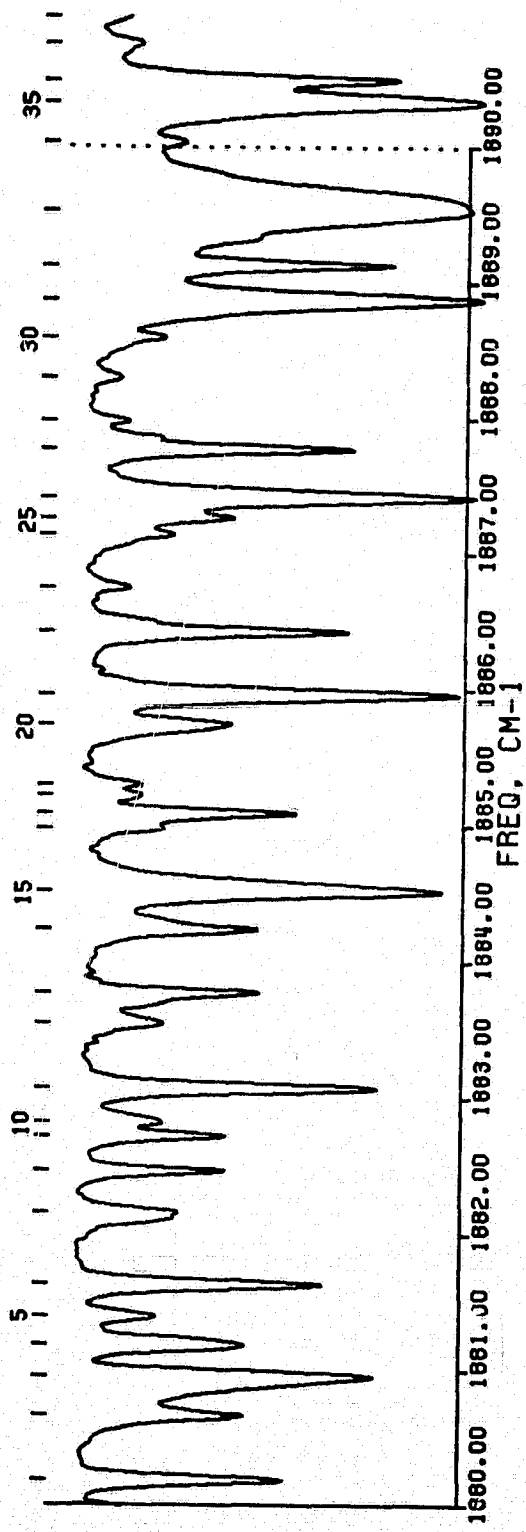
114



115

1880.184	1880.657	1880.947	1881.175	1881.386	5
1881.625	1882.155	1882.460	1882.714	1882.816	10
1883.070	1883.543	1883.769	1884.235	1884.519	15
1884.977	1885.091	1885.225	1885.303	1885.745	20
1885.966	1886.427	1886.752	1887.141	1887.262	25
1887.416	1887.770	1887.979	1888.297	1888.592	30
1888.871	1889.125	1889.528	1890.035	1890.324	35
1890.489	1890.761	1890.959	1891.491	1891.781	40
1892.011	1892.208	1892.458	1892.597	1892.953	45
1893.226	1893.614	1893.701	1893.955	1894.656	50
1894.726	1895.192	1896.059	1896.148	1896.578	55
1896.807	1896.908	1897.013	1897.153	1897.296	60
1897.471	1897.613	1897.697	1897.968	1898.180	65
1898.400	1898.647	1898.897	1899.069	1899.153	70
1899.691	1899.997	1900.337	1900.572	1900.743	75

114



117

1801.370  
1810.686

1802.513  
1812.278

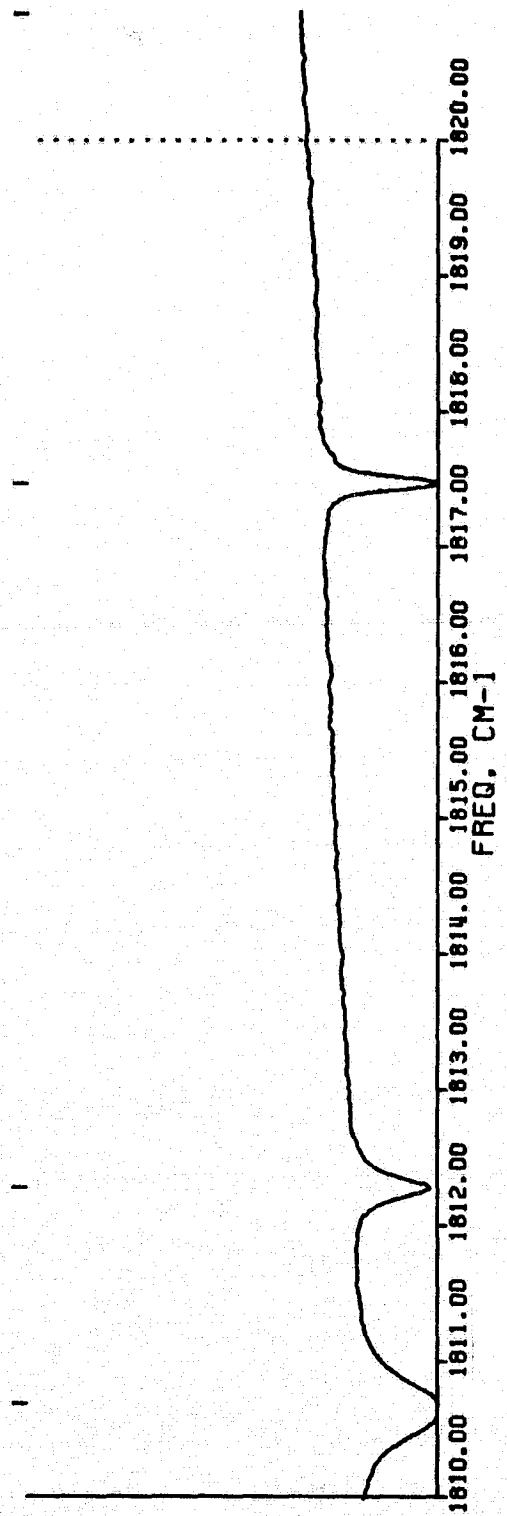
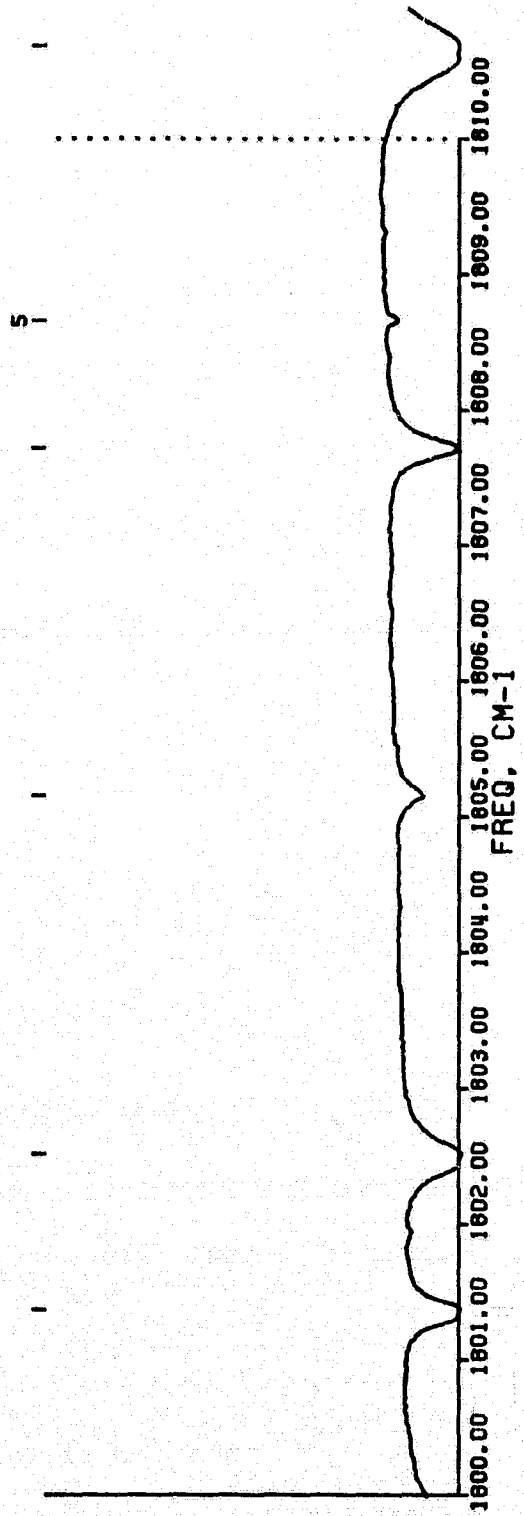
1805.157  
1817.465

1807.716  
1820.931

1808.656

5  
10

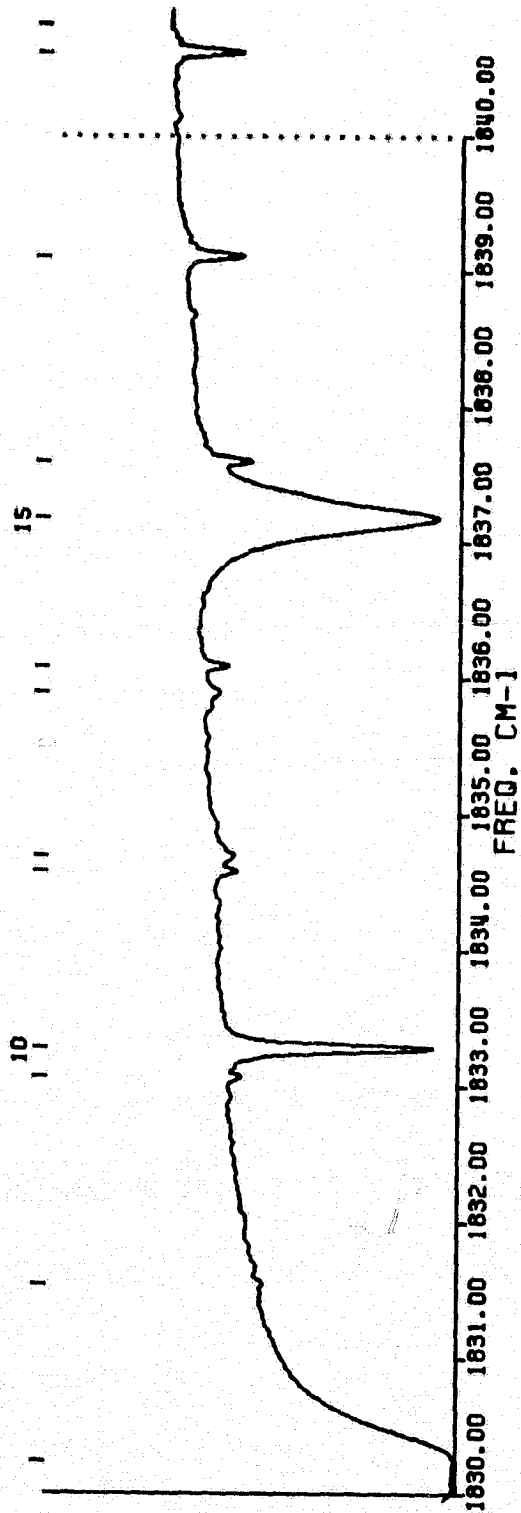
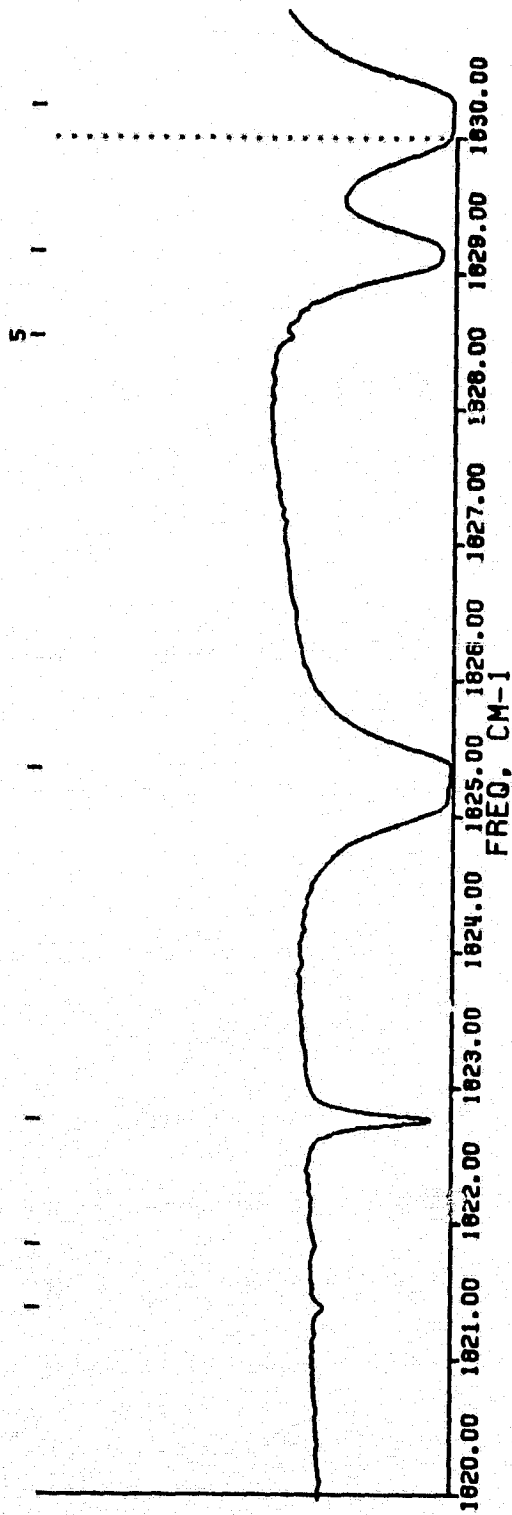
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Small illegible text or stamp at the bottom right corner.

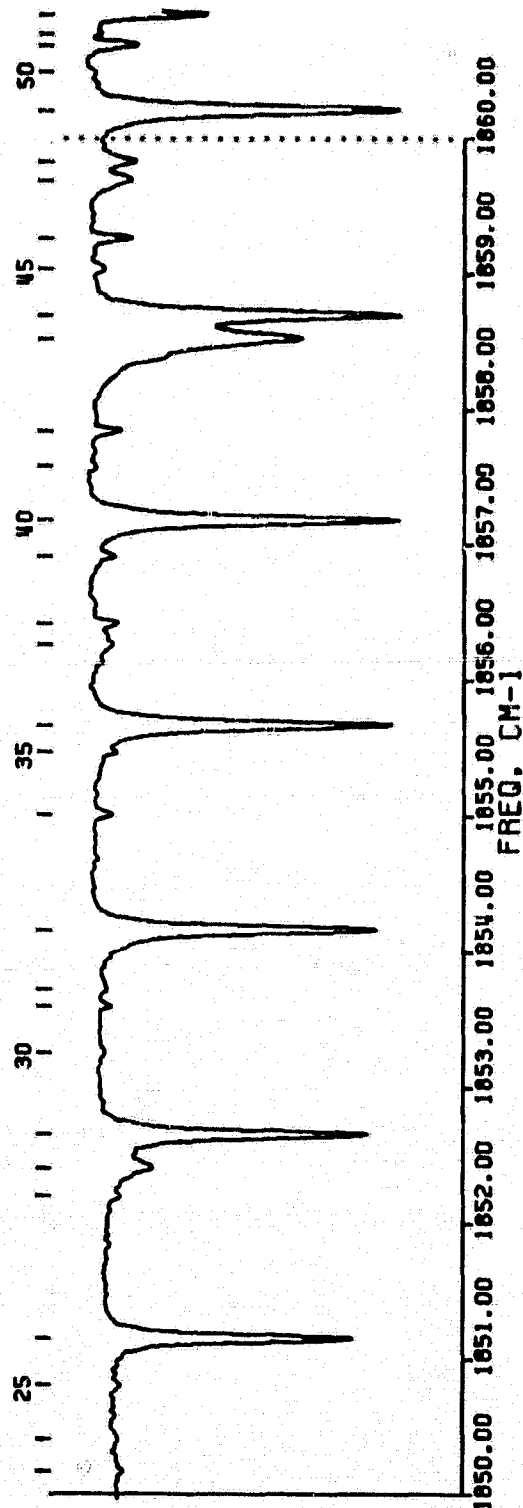
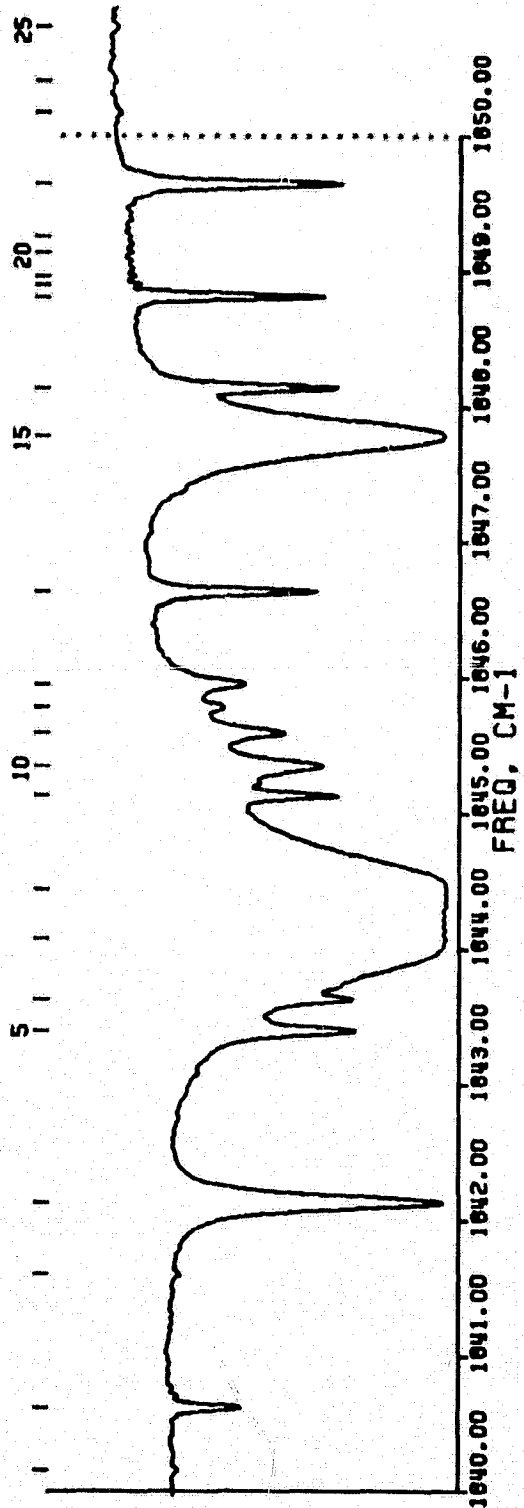


1821.378	1821.840	1822.761	1825.352	1828.534	5
1829.156	1830.238	1831.545	1833.070	1833.282	10
1834.585	1834.701	1835.905	1836.093	1837.183	15
1837.600	1839.112	1840.617	1840.825		20



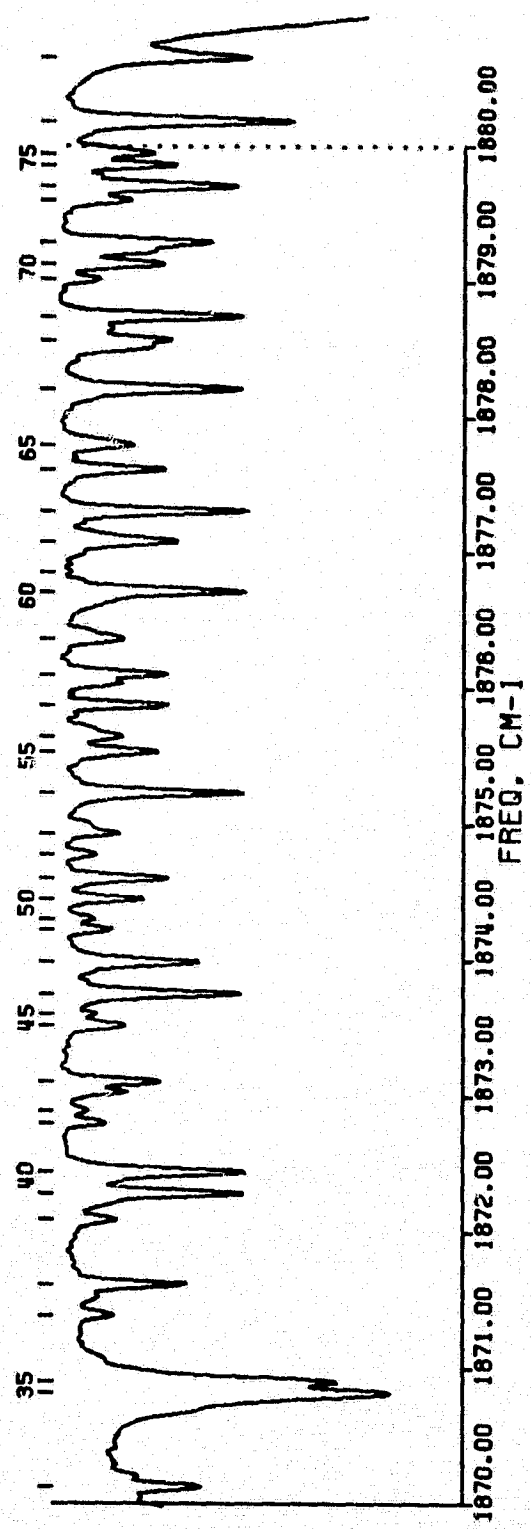
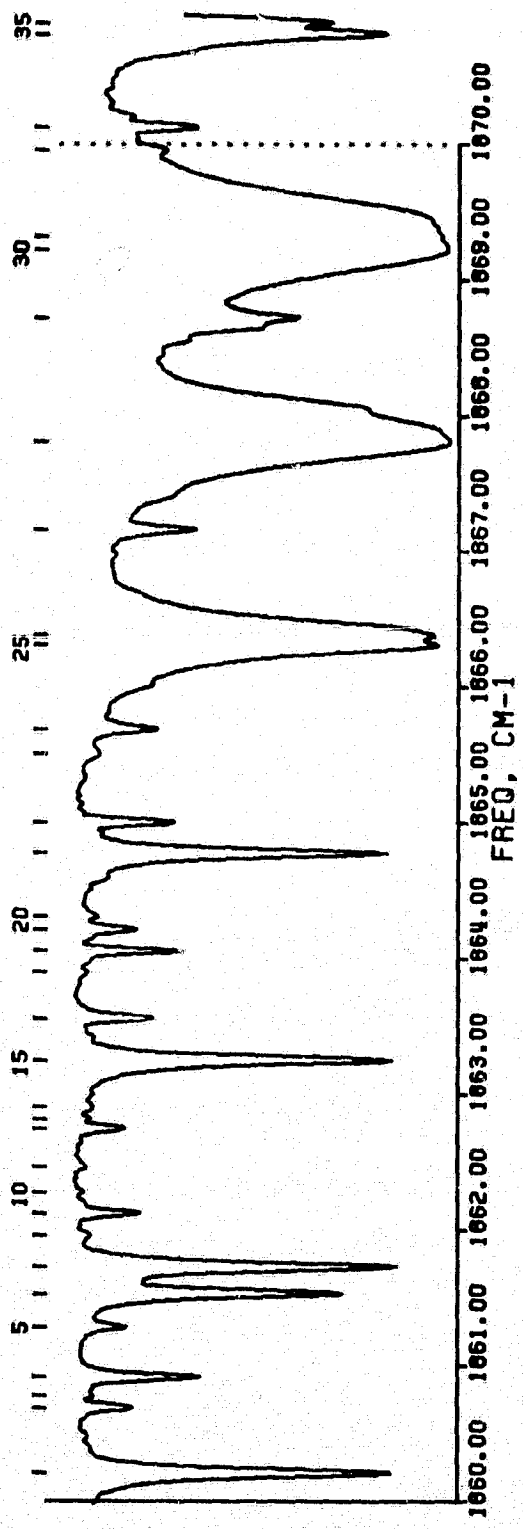
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1840.160	1840.617	1841.606	1842.128	1843.398	5
1843.630	1844.075	1844.439	1845.131	1845.350	10
1845.592	1845.781	1845.951	1846.635	1847.788	15
1848.140	1848.811	1848.899	1848.960	1849.140	20
1849.259	1849.645	1850.171	1850.408	1850.804	25
1851.150	1852.201	1852.406	1852.656	1853.257	30
1853.601	1853.728	1854.163	1855.015	1855.474	35
1855.672	1856.269	1856.425	1856.917	1857.182	40
1857.581	1857.843	1858.524	1858.694	1859.042	45
1859.263	1859.693	1859.831	1860.210	1860.492	50
1860.690	1860.776	1860.916			55



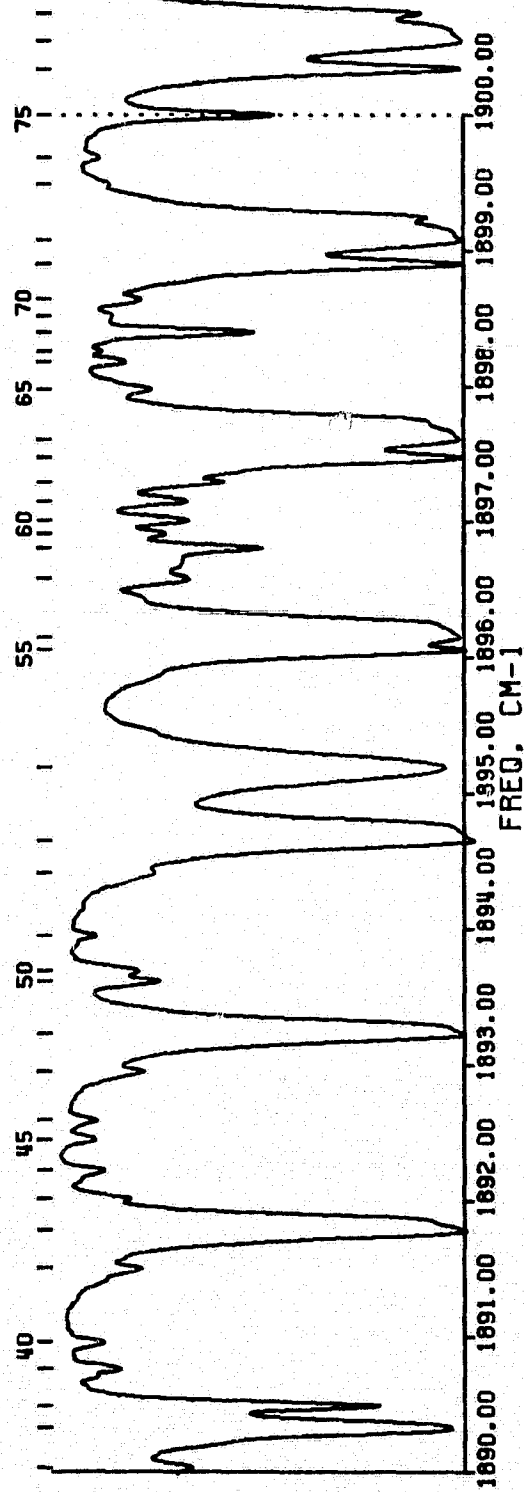
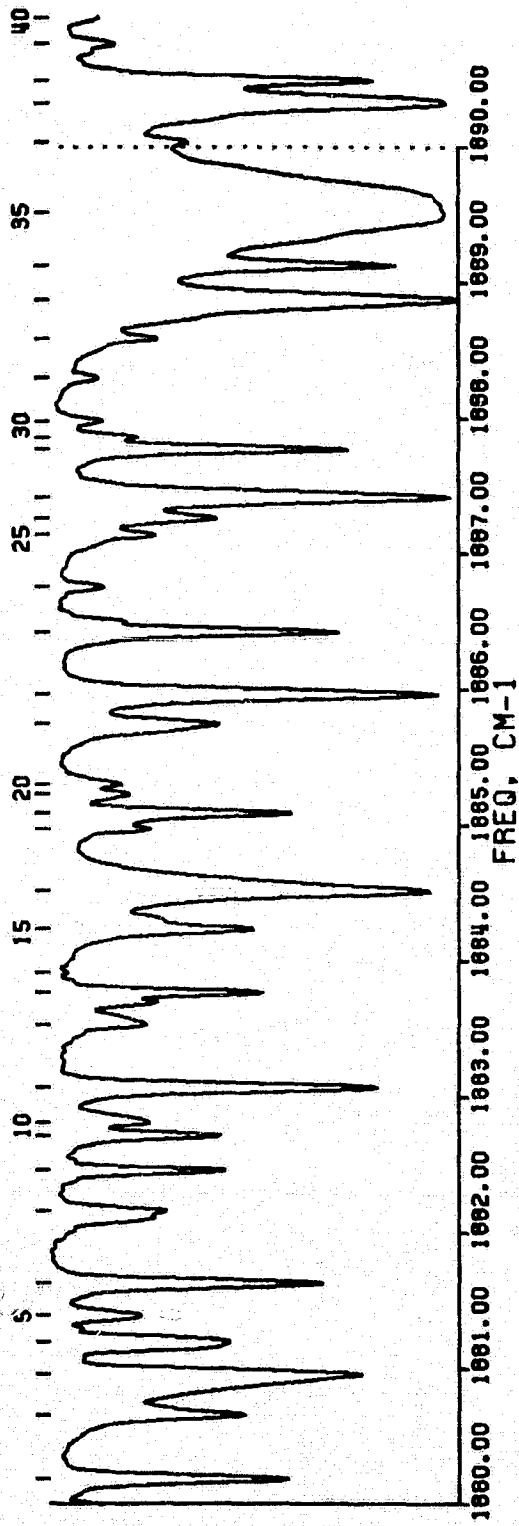
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1860.210	1860.690	1860.776	1860.916	1861.283	5
1861.530	1861.730	1861.964	1862.123	1862.278	10
1862.465	1862.748	1862.819	1862.908	1863.248	15
1863.561	1863.902	1864.054	1864.211	1864.308	20
1864.775	1865.000	1865.507	1865.687	1866.310	25
1866.378	1867.156	1867.809	1868.720	1869.218	30
1869.321	1869.953	1870.125	1870.814	1870.696	35
1871.385	1871.615	1872.094	1872.285	1872.443	40
1872.803	1872.894	1873.109	1873.521	1873.606	45
1873.756	1873.990	1874.230	1874.306	1874.453	50
1874.605	1874.783	1874.937	1875.235	1875.538	55
1875.653	1875.880	1876.109	1876.371	1876.718	60
1876.863	1877.088	1877.310	1877.616	1877.800	65
1878.211	1878.573	1878.745	1879.020	1879.131	70
1879.293	1879.602	1879.705	1879.860	1879.945	75
1880.182	1880.656				80



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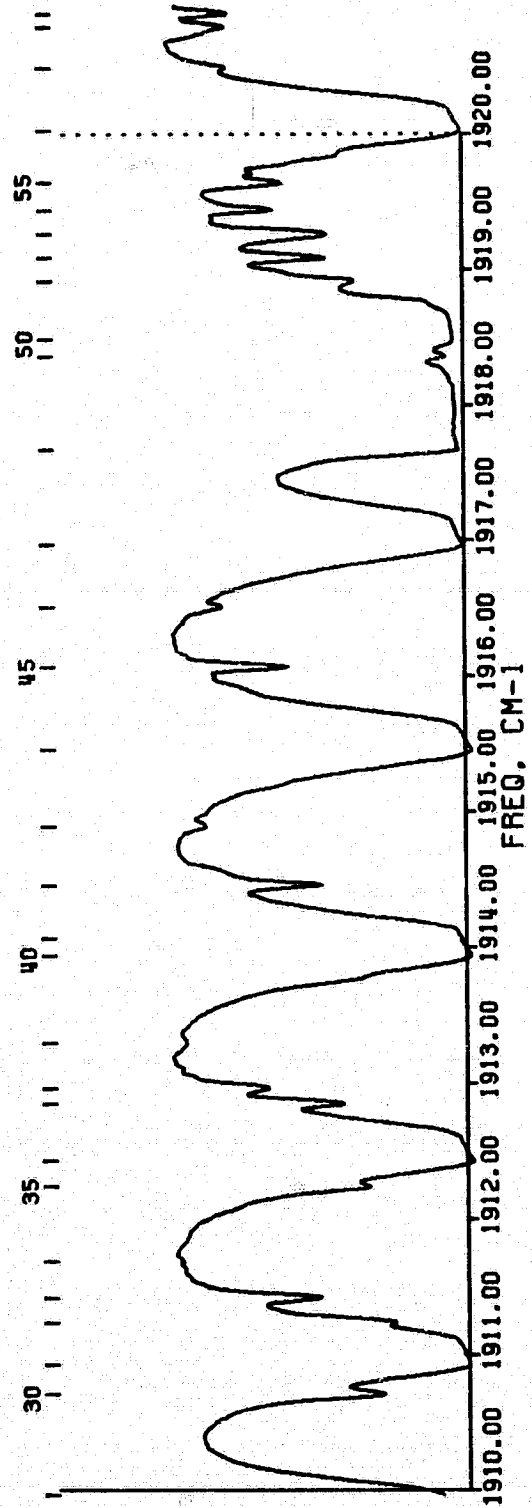
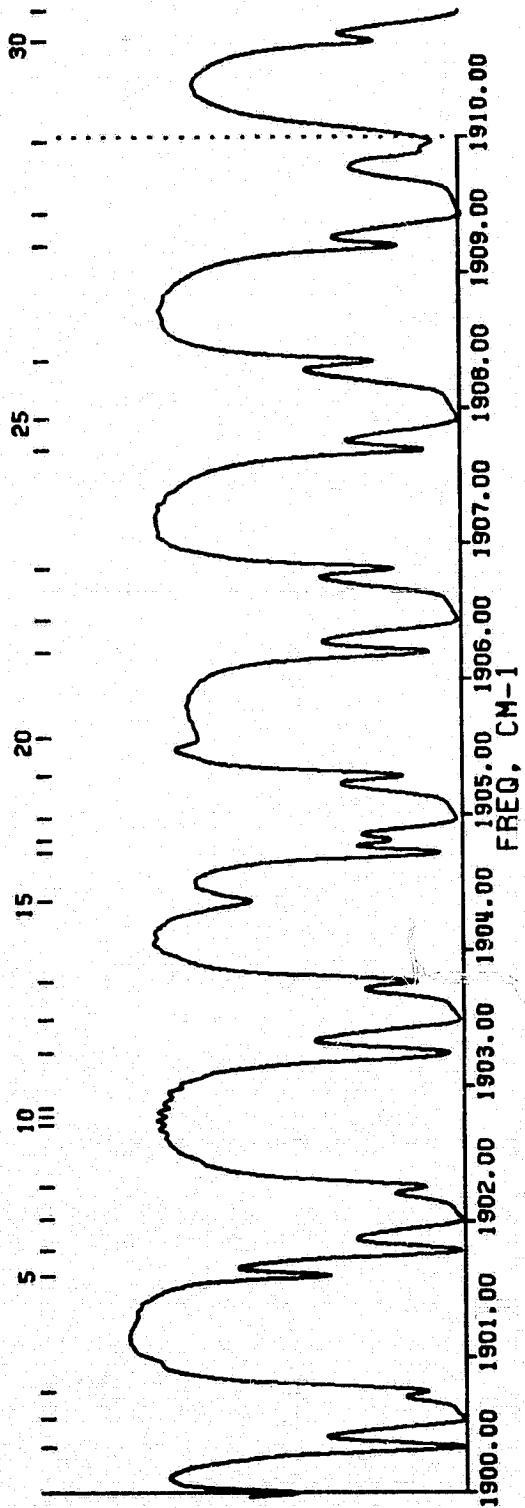
1880.182	1880.656	1880.953	1881.193	1881.385	5
1881.623	1882.159	1882.459	1882.713	1882.812	10
1883.068	1883.533	1883.767	1883.914	1884.235	15
1884.516	1884.972	1885.090	1885.231	1885.301	20
1885.746	1885.965	1886.424	1886.754	1887.139	25
1887.261	1887.416	1887.770	1887.858	1887.978	30
1888.296	1888.587	1888.870	1889.125	1889.512	35
1890.031	1890.321	1890.487	1890.758	1890.951	40
1891.498	1891.780	1892.013	1892.221	1892.446	45
1892.589	1892.950	1893.226	1893.614	1893.690	50
1893.949	1894.413	1894.651	1895.191	1896.056	55
1896.150	1896.580	1896.806	1896.910	1897.011	60
1897.151	1897.291	1897.470	1897.607	1897.976	65
1898.178	1898.256	1898.398	1898.515	1898.640	70
1898.898	1899.076	1899.486	1899.683	1899.997	75
1900.337	1900.545	1900.745			80



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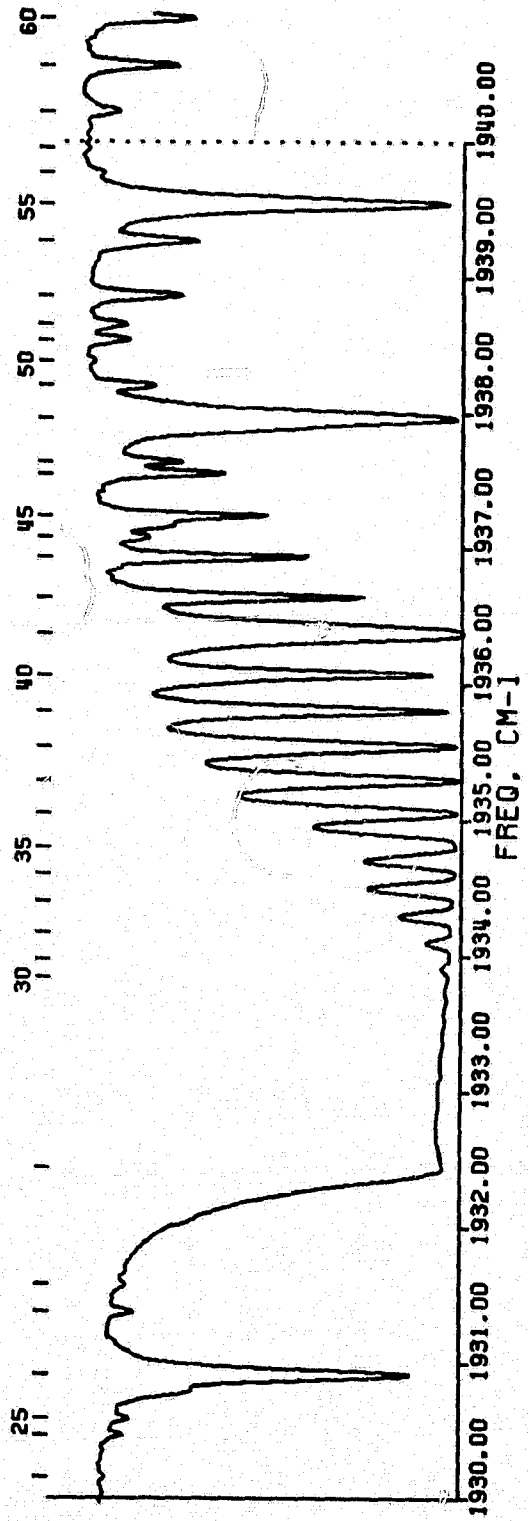
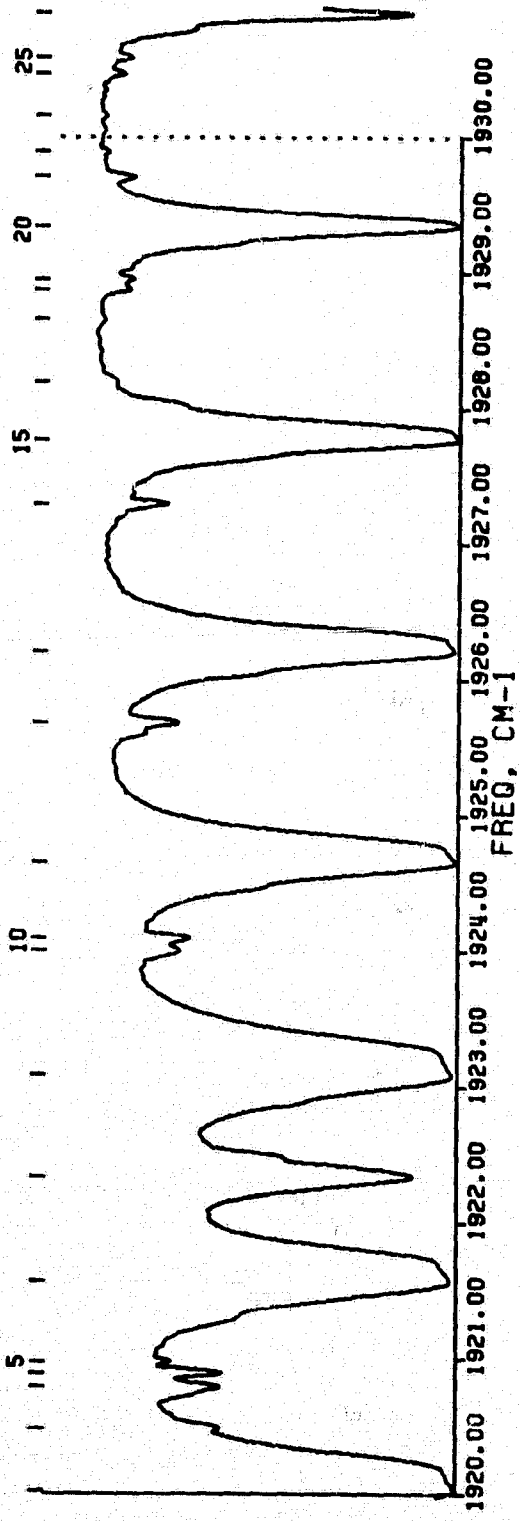
1899.599	1900.337	1900.545	1900.745	1901.600	5
1901.785	1902.016	1902.253	1902.712	1902.775	10
1902.839	1903.243	1903.491	1903.767	1904.362	15
1904.718	1904.811	1904.972	1905.286	1905.565	20
1906.200	1906.438	1906.811	1907.691	1907.920	25
1908.343	1909.195	1909.434	1909.965	1910.708	30
1910.928	1911.235	1911.419	1911.691	1912.239	35
1912.429	1912.850	1912.963	1913.298	1913.945	40
1914.068	1914.464	1914.897	1915.460	1916.070	45
1916.513	1916.977	1917.678	1918.361	1918.485	50
1918.913	1919.085	1919.261	1919.441	1919.639	55
1920.025	1920.488	1920.791	1920.890		60



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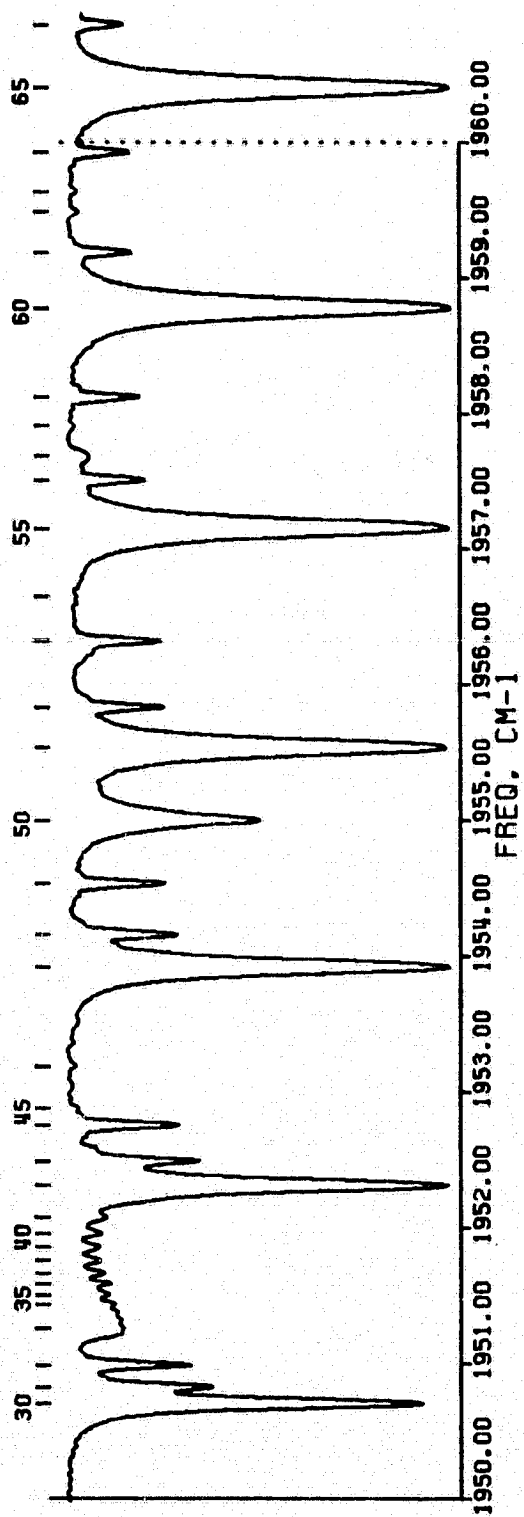
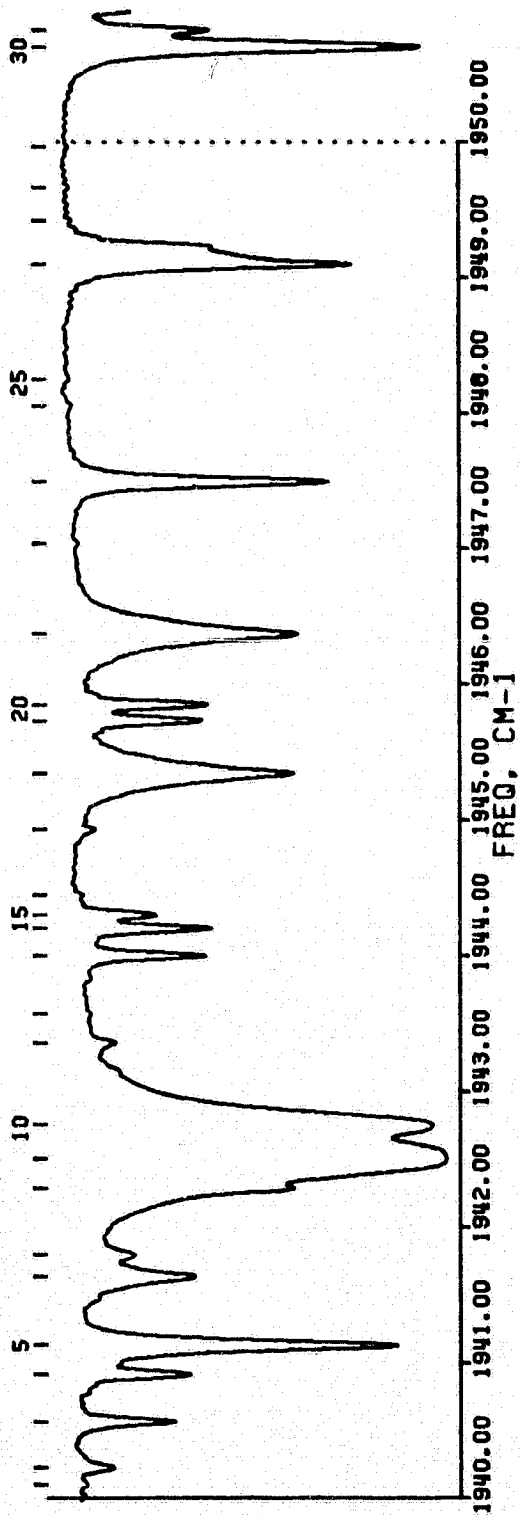
1920.023	1920.488	1920.790	1920.890	1920.976	5
1921.568	1922.338	1923.091	1924.006	1924.100	10
1924.658	1925.685	1926.213	1927.297	1927.774	15
1928.203	1928.658	1928.878	1928.956	1929.343	20
1929.708	1929.893	1930.159	1930.467	1930.588	25
1930.912	1931.372	1931.578	1932.436	1933.845	30
1933.979	1934.175	1934.403	1934.609	1934.808	35
1935.055	1935.295	1935.545	1935.805	1936.074	40
1936.380	1936.642	1936.939	1937.085	1937.243	45
1937.551	1937.639	1937.960	1938.203	1938.384	50
1938.539	1938.653	1938.866	1939.268	1939.542	55
1939.775	1939.956	1940.224	1940.563	1940.912	60

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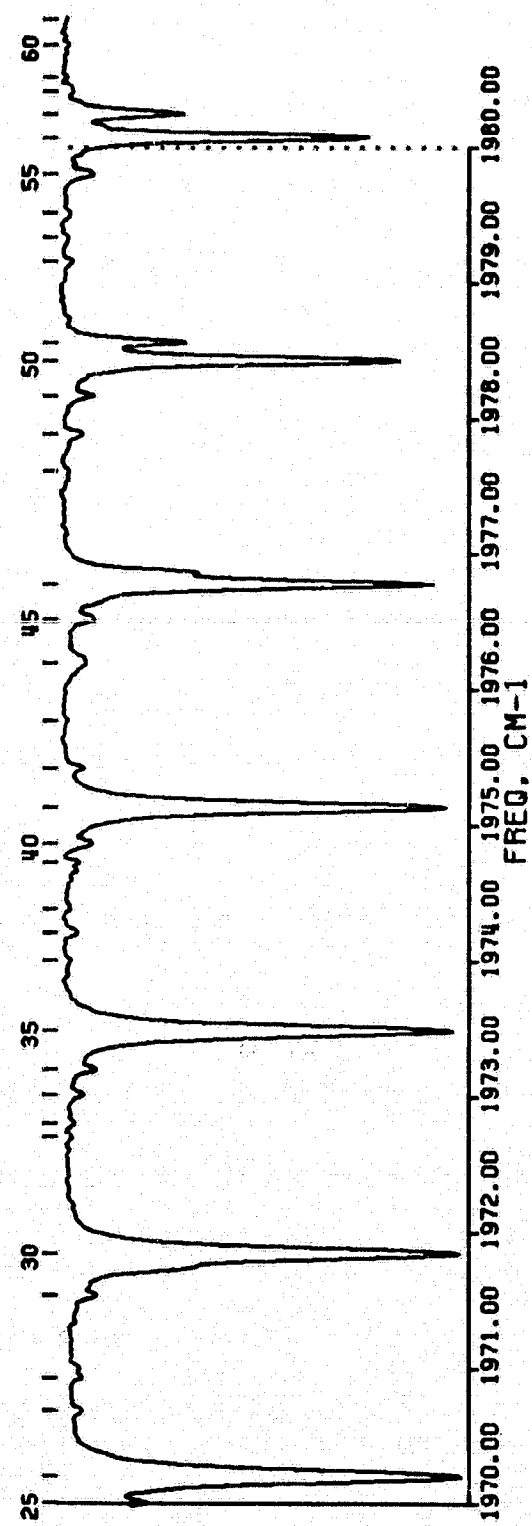
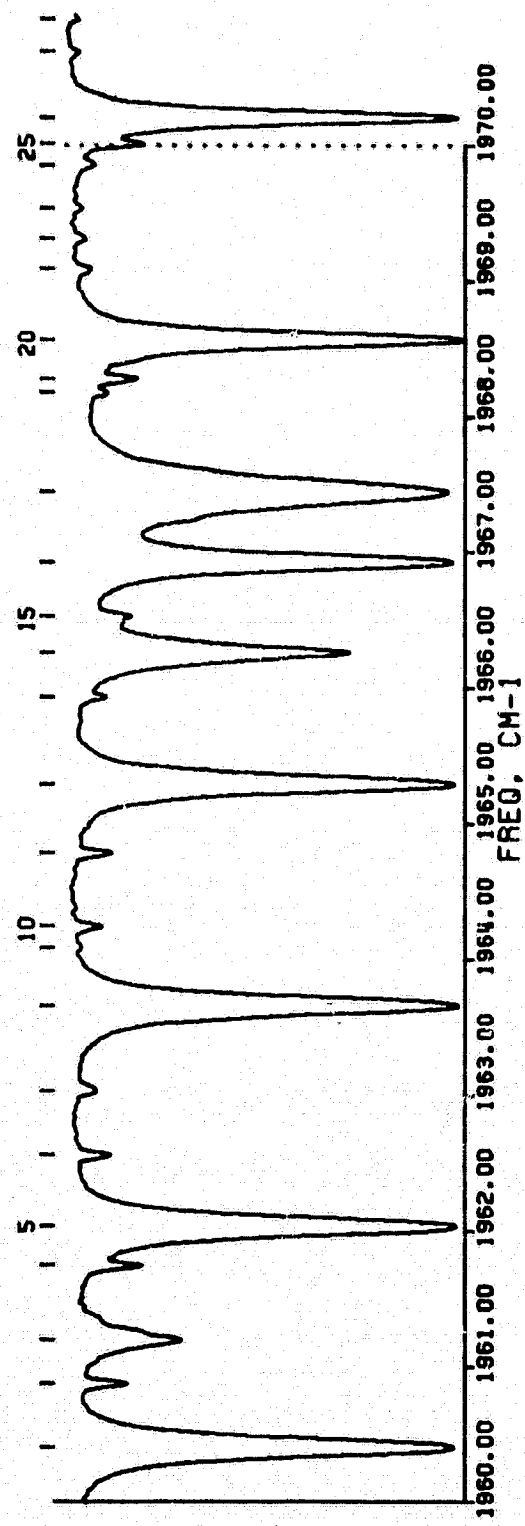
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1940.102	1940.225	1940.563	1940.913	1941.126	5
1941.631	1941.791	1942.286	1942.500	1942.751	10
1943.359	1943.572	1943.998	1944.201	1944.298	15
1944.446	1944.929	1945.346	1945.731	1945.850	20
1946.371	1947.040	1947.491	1948.055	1948.251	25
1949.094	1949.419	1949.663	1949.963	1950.701	30
1950.823	1950.985	1951.256	1951.431	1951.503	35
1951.588	1951.661	1951.758	1951.857	1951.956	40
1952.075	1952.310	1952.490	1952.755	1952.880	45
1953.191	1953.921	1954.156	1954.538	1955.001	50
1955.537	1955.835	1956.321	1956.651	1957.150	55
1957.508	1957.687	1957.910	1958.121	1958.775	60
1959.186	1959.484	1959.636	1959.930	1960.403	65
1960.870					70



1960.403	1960.870	1961.190	1961.742	1962.031	5
1962.554	1963.028	1963.656	1964.086	1964.241	10
1964.785	1965.286	1965.933	1966.260	1966.529	15
1966.925	1967.440	1968.175	1968.278	1968.565	20
1969.090	1969.309	1969.537	1969.855	1970.009	25
1970.203	1970.690	1970.928	1971.536	1971.844	30
1972.701	1972.803	1973.014	1973.200	1973.486	35
1974.006	1974.212	1974.386	1974.728	1974.865	40
1975.133	1975.423	1975.773	1976.197	1976.518	45
1976.778	1977.611	1977.885	1978.166	1978.426	50
1978.559	1979.158	1979.331	1979.516	1979.802	55
1980.071	1980.246	1980.408	1980.518	1980.757	60
1980.943					65

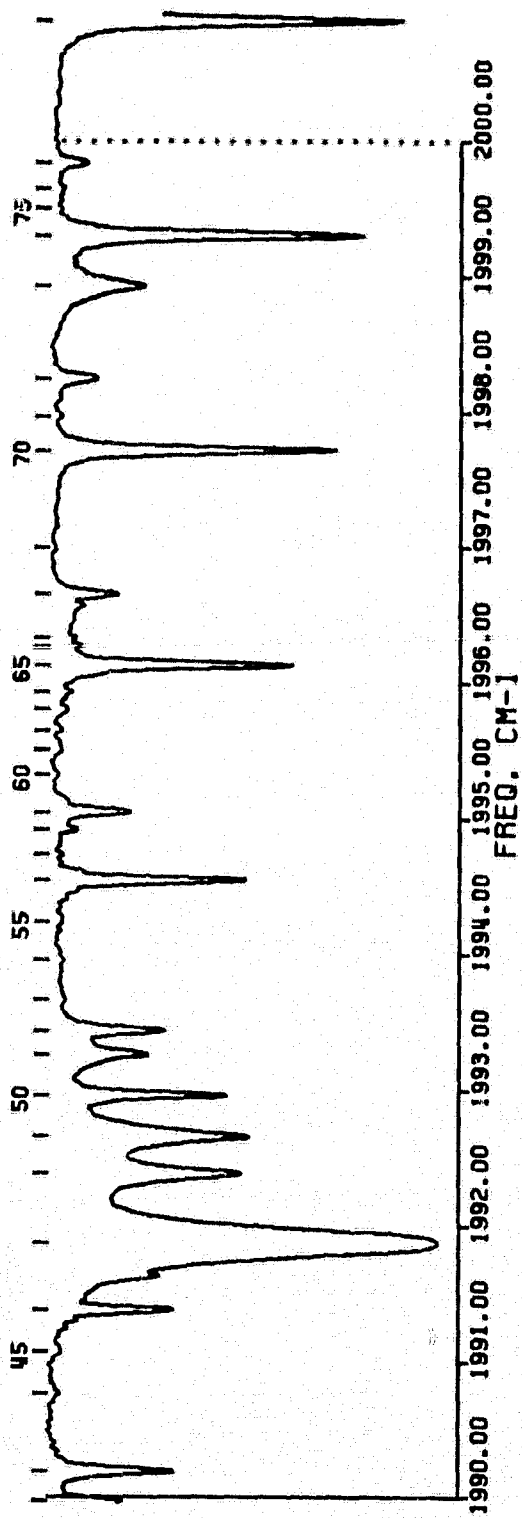
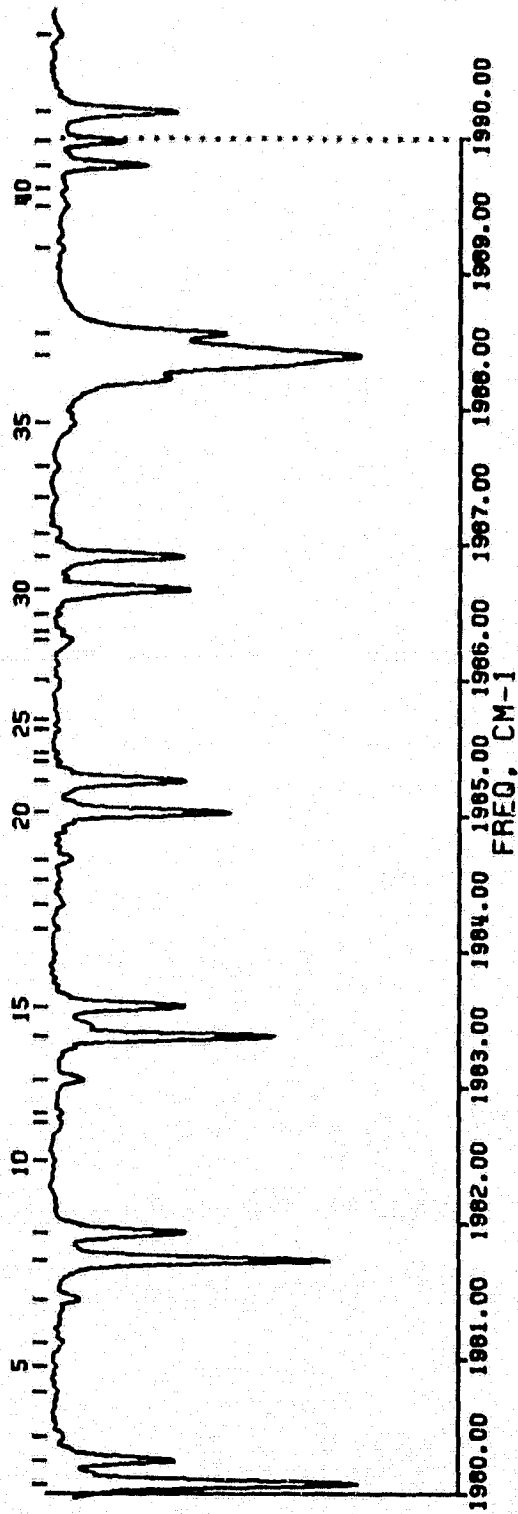
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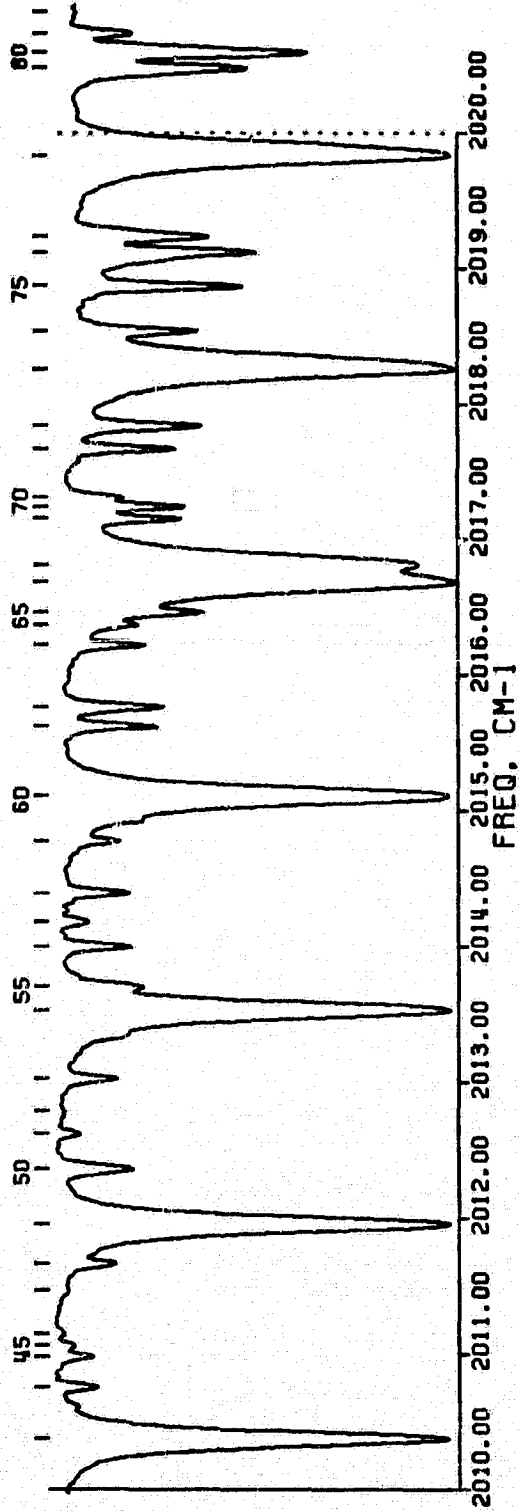
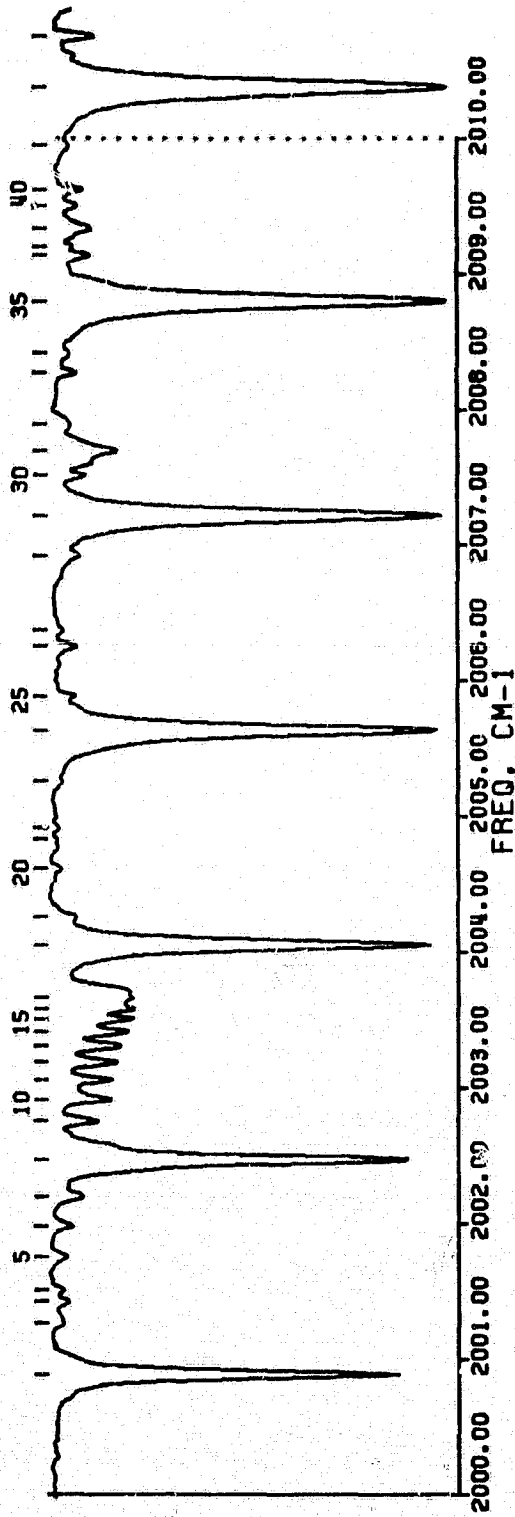
1980.071	1980.246	1980.425	1980.753	1980.943	5
1981.118	1981.431	1981.722	1981.927	1982.456	10
1982.740	1982.806	1983.053	1983.375	1983.594	15
1984.167	1984.351	1984.528	1984.680	1985.025	20
1985.257	1985.399	1985.459	1985.634	1985.705	25
1985.998	1986.297	1986.361	1986.484	1986.667	30
1986.910	1987.083	1987.343	1987.575	1987.898	35
1988.394	1988.555	1989.189	1989.496	1989.630	40
1989.798	1989.975	1990.192	1990.764	1991.072	45
1991.383	1991.875	1992.386	1992.659	1992.963	50
1993.266	1993.442	1993.672	1993.961	1994.241	55
1994.551	1994.738	1994.923	1995.051	1995.328	60
1995.510	1995.653	1995.810	1995.941	1996.132	65
1996.275	1996.336	1996.656	1997.000	1997.718	70
1997.970	1998.251	1998.929	1999.300	1999.501	75
1999.651	1999.839	2000.885			80



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2000.885	2001.259	2001.422	2001.506	2001.755	5
2001.978	2002.193	2002.468	2002.751	2002.909	10
2003.055	2003.185	2003.306	2003.412	2003.505	15
2003.576	2003.661	2004.050	2004.255	2004.612	20
2004.830	2004.913	2005.258	2005.633	2005.885	25
2006.250	2006.370	2006.918	2007.214	2007.511	30
2007.696	2007.892	2008.269	2008.416	2008.796	35
2009.136	2009.200	2009.331	2009.503	2009.621	40
2009.950	2010.375	2010.751	2010.978	2011.059	45
2011.141	2011.463	2011.664	2011.956	2012.362	50
2012.618	2012.788	2013.026	2013.530	2013.705	55
2013.998	2014.182	2014.393	2014.778	2015.109	60
2015.621	2015.766	2016.222	2016.375	2016.465	65
2016.685	2016.813	2017.154	2017.243	2017.308	70
2017.669	2017.840	2018.258	2018.538	2018.868	75
2019.119	2019.235	2019.833	2020.478	2020.590	80
2020.733	2020.893				85

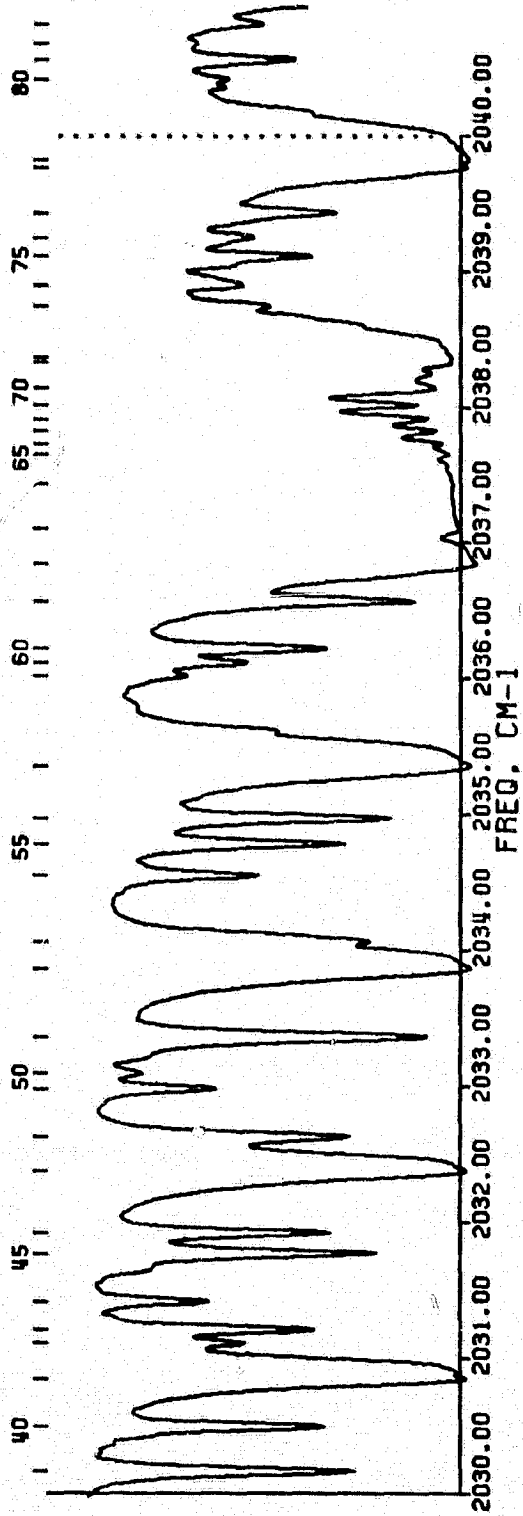
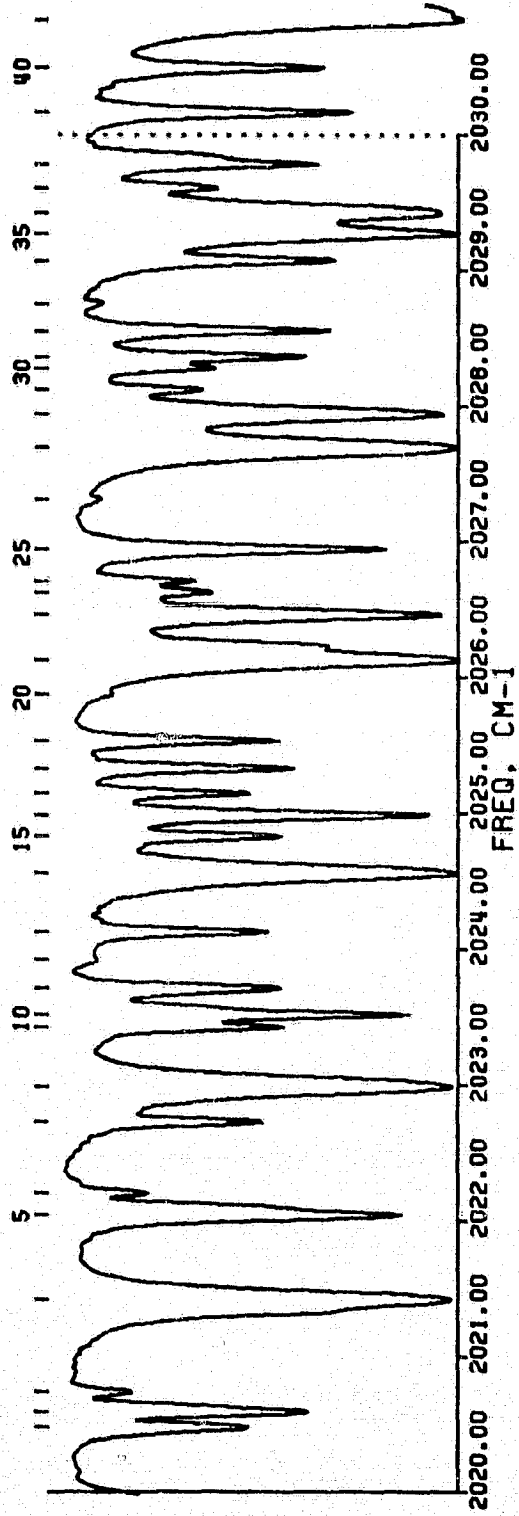
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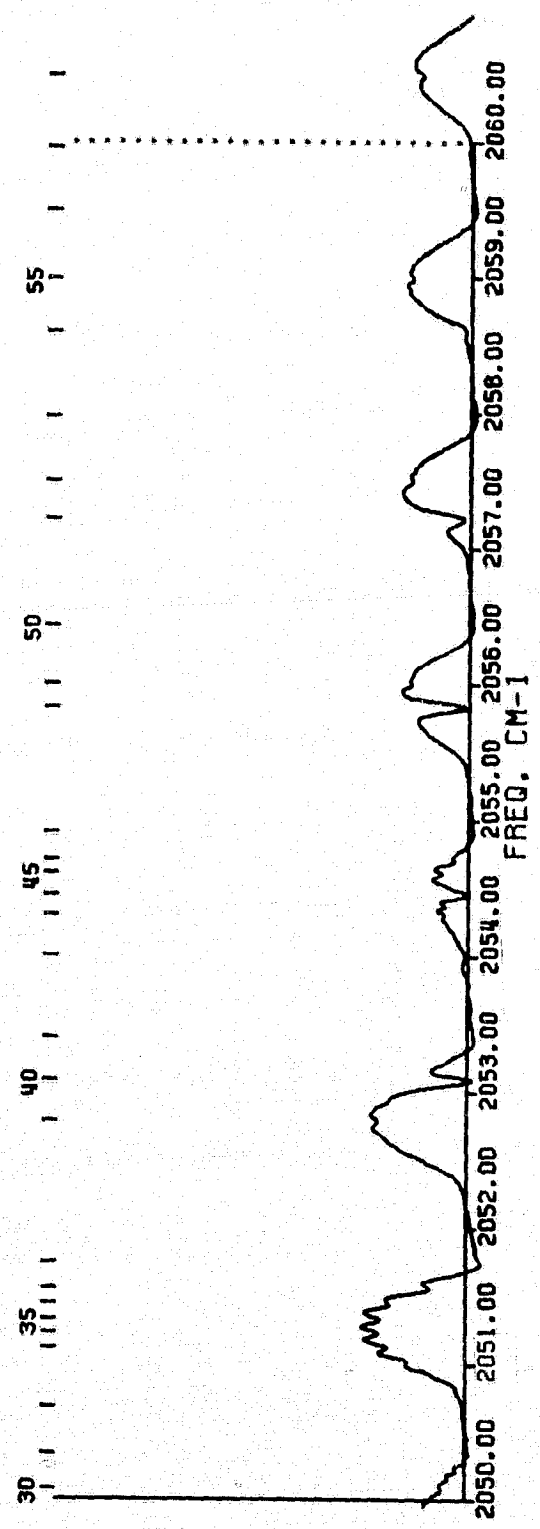
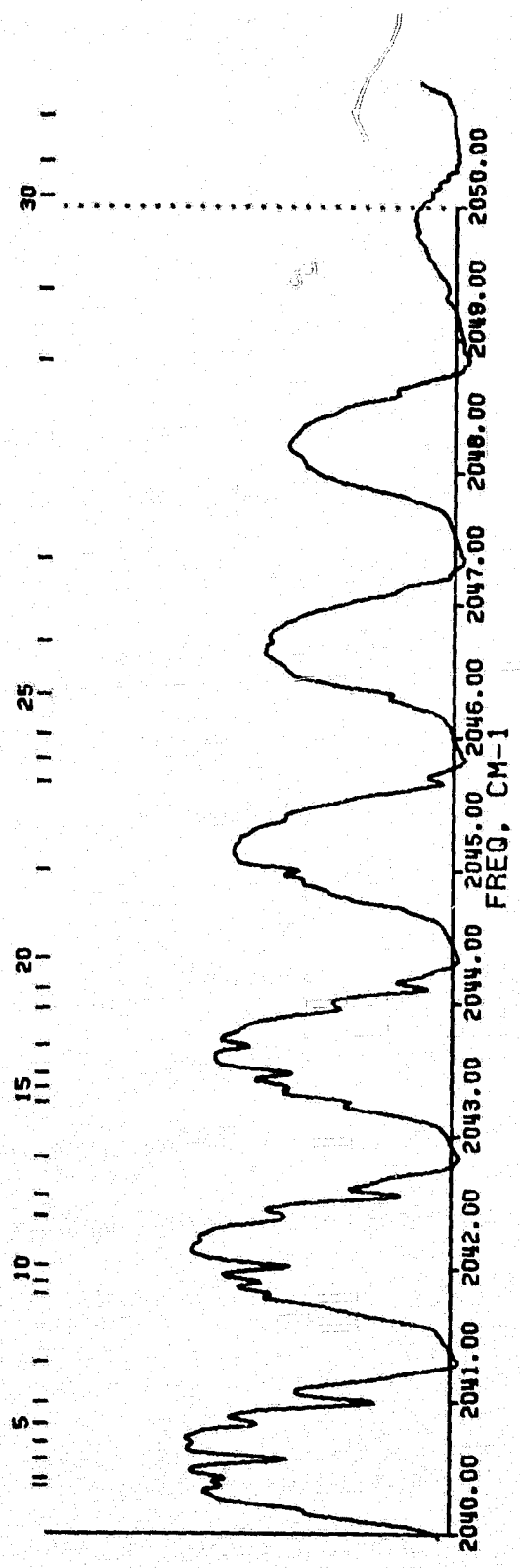
2020.478	2020.590	2020.735	2021.413	2022.037	5
2022.198	2022.725	2022.983	2023.425	2023.514	10
2023.713	2023.921	2024.123	2024.558	2024.830	15
2024.986	2025.144	2025.328	2025.533	2025.878	20
2026.128	2026.461	2026.625	2026.708	2026.945	25
2027.311	2027.696	2027.939	2028.120	2028.278	30
2028.363	2028.551	2028.755	2029.070	2029.271	35
2029.424	2029.606	2029.783	2030.164	2030.494	40
2030.844	2031.106	2031.203	2031.412	2031.769	45
2031.920	2032.376	2032.625	2032.980	2033.096	50
2033.363	2033.866	2034.062	2034.550	2034.785	55
2034.971	2035.358	2036.023	2036.118	2036.225	60
2036.570	2036.847	2037.106	2037.434	2037.654	65
2037.731	2037.825	2037.914	2038.016	2038.141	70
2038.330	2038.366	2038.744	2038.898	2039.115	75
2039.252	2039.432	2039.765	2039.825	2040.418	80
2040.564	2040.683	2040.825			85



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2040.361	2040.418	2040.564	2040.686	2040.825	5
2040.993	2041.293	2041.803	2041.897	2042.015	10
2042.389	2042.550	2042.831	2043.250	2043.360	15
2043.469	2043.675	2043.958	2044.105	2044.337	20
2044.998	2045.662	2045.840	2046.021	2046.322	25
2046.720	2047.342	2048.841	2049.374	2050.083	30
2050.340	2050.684	2051.117	2051.225	2051.325	35
2051.441	2051.555	2051.745	2052.785	2053.088	40
2053.405	2054.006	2054.306	2054.457	2054.612	45
2054.711	2054.913	2055.835	2056.008	2056.438	50
2057.218	2057.502	2057.973	2058.595	2058.993	55
2059.496	2059.956	2060.487			60

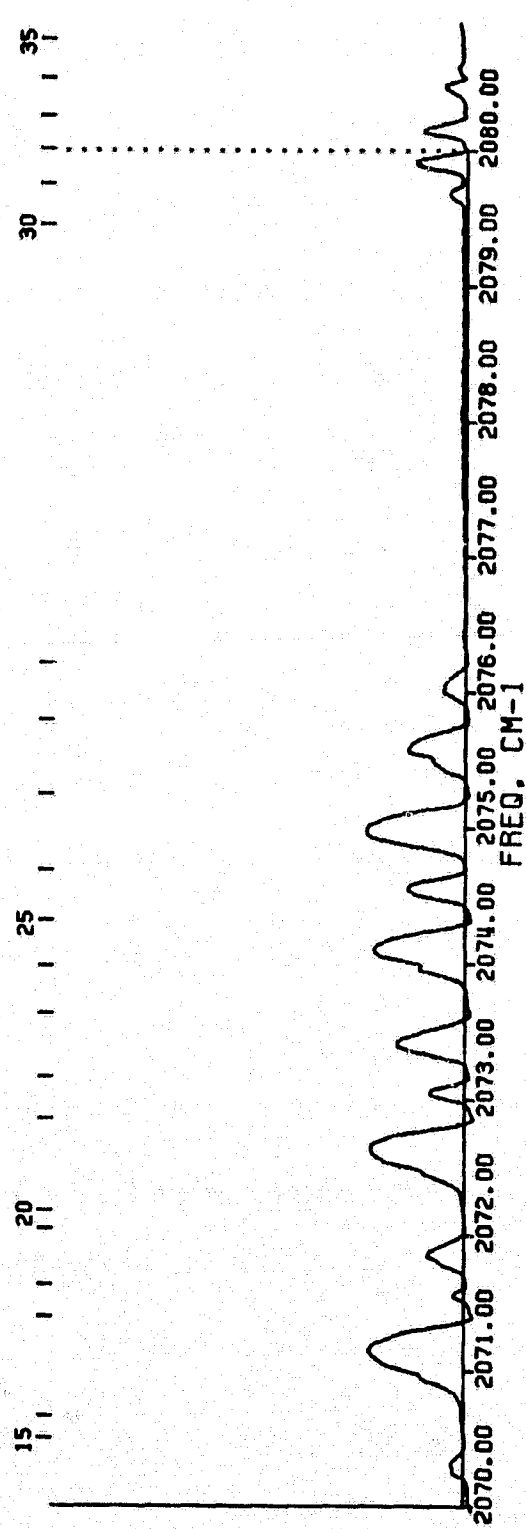
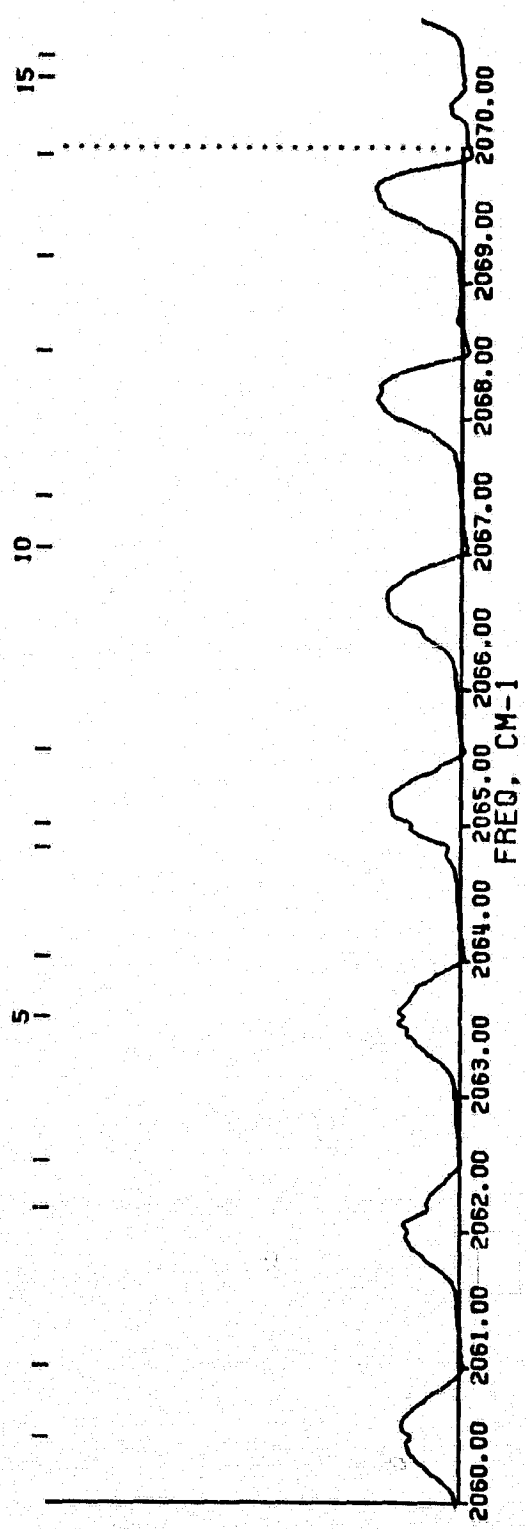
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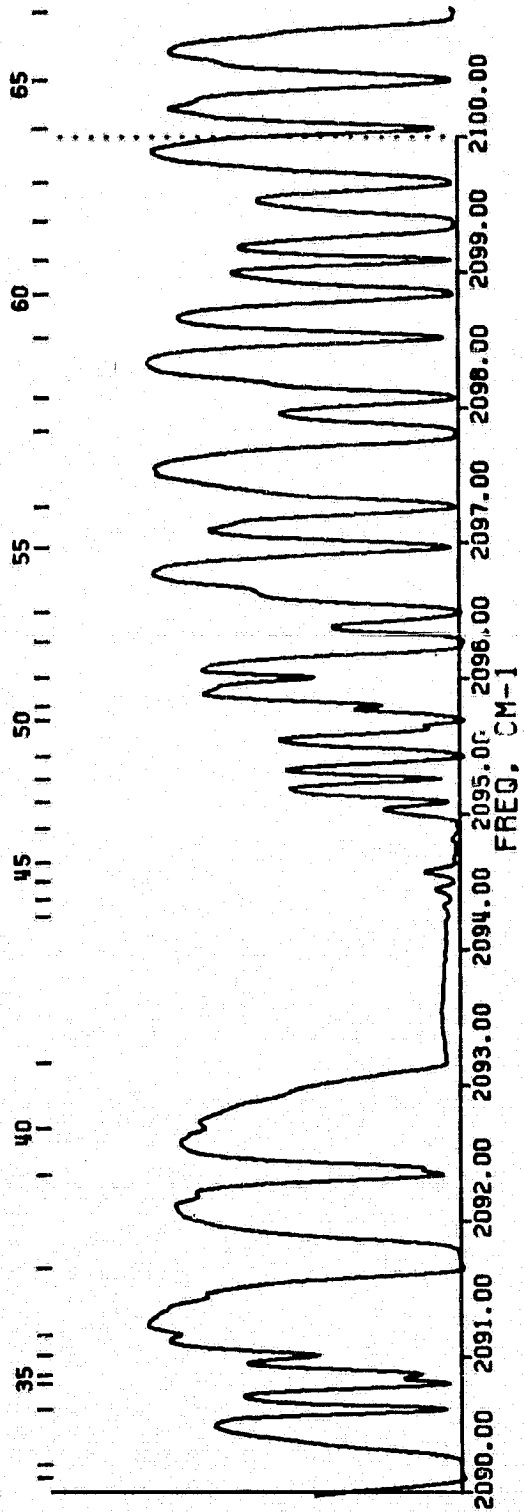
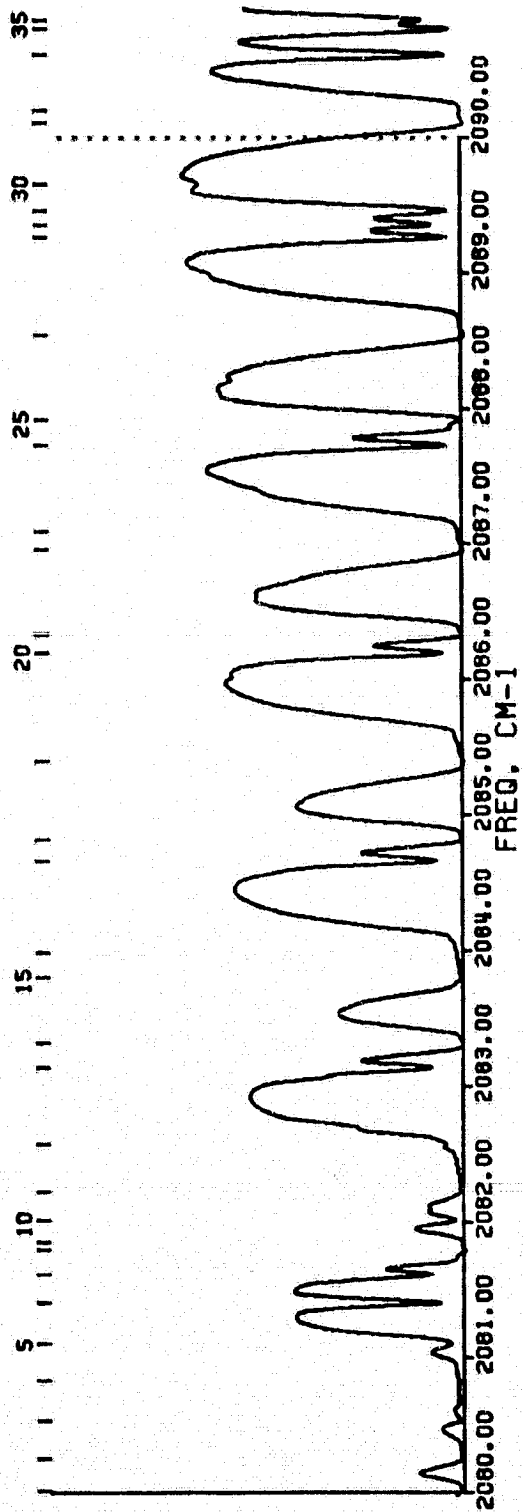
2060.487	2061.013	2062.175	2062.520	2063.587	5
2064.025	2064.835	2065.005	2065.550	2067.042	10
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2070.669	2071.397	2071.633	2072.045	2072.181	20
2072.855	2073.163	2073.633	2073.983	2074.323	25
2074.693	2075.252	2075.796	2076.221	2079.453	30
2079.756	2080.012	2080.255	2080.536	2080.826	35



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2080.019	2080.255	2080.536	2080.826	2081.100	5
2081.400	2081.611	2081.793	2081.849	2082.011	10
2082.223	2082.572	2083.137	2083.318	2083.806	15
2083.988	2084.663	2084.818	2085.401	2086.195	20
2086.330	2086.960	2087.091	2087.728	2087.917	25
2088.541	2089.263	2089.355	2089.458	2089.655	30
2090.109	2090.203	2090.611	2090.800	2090.866	35
2091.009	2091.159	2091.656	2092.340	2092.686	40
2093.166	2094.247	2094.373	2094.501	2094.641	45
2094.892	2095.091	2095.260	2095.428	2095.694	50
2095.801	2096.009	2096.277	2096.490	2096.968	55
2097.267	2097.826	2098.073	2098.513	2098.838	60
2099.086	2099.375	2099.662	2100.058	2100.417	65
2100.924					70

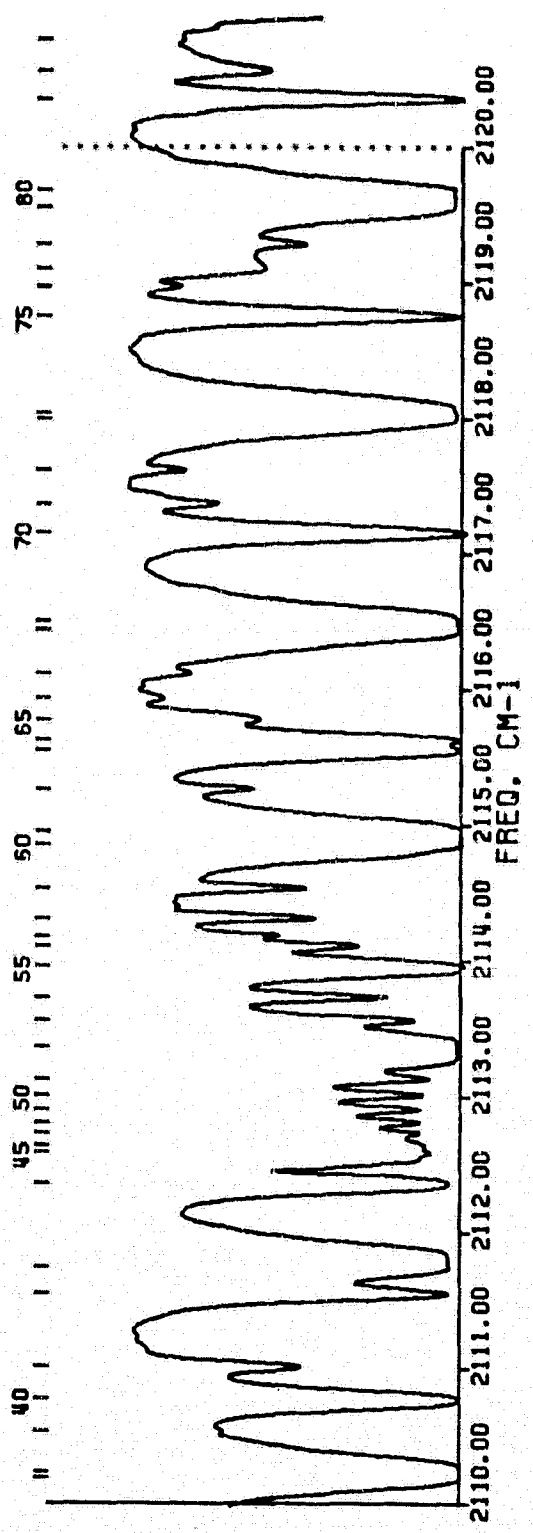
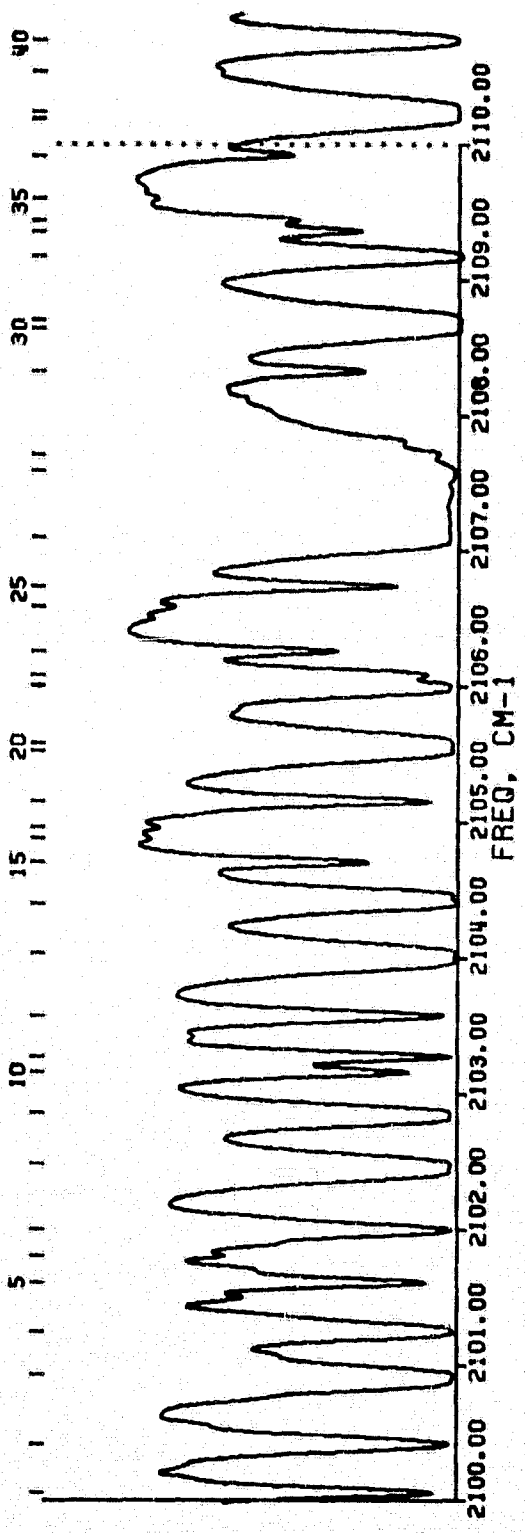
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2100.058	2100.417	2100.924	2101.240	2101.606	5
2101.805	2101.995	2102.477	2102.858	2103.156	10
2103.273	2103.573	2104.036	2104.401	2104.705	15
2104.878	2104.963	2105.154	2105.524	2105.578	20
2106.006	2106.086	2106.259	2106.587	2106.740	25
2107.103	2107.590	2107.711	2108.324	2108.639	30
2108.706	2109.169	2109.357	2109.440	2109.601	35
2109.917	2110.189	2110.236	2110.537	2110.770	40
2111.006	2111.546	2111.745	2112.361	2112.590	45
2112.641	2112.731	2112.811	2112.906	2113.013	50
2113.134	2113.366	2113.562	2113.734	2113.963	55
2114.109	2114.183	2114.315	2114.536	2114.857	60
2114.961	2115.267	2115.553	2115.628	2115.780	65
2115.935	2116.119	2116.442	2116.506	2117.153	70
2117.366	2117.616	2117.993	2118.040	2118.751	75
2118.971	2119.101	2119.281	2119.560	2119.685	80
2120.354	2120.563	2120.795			85

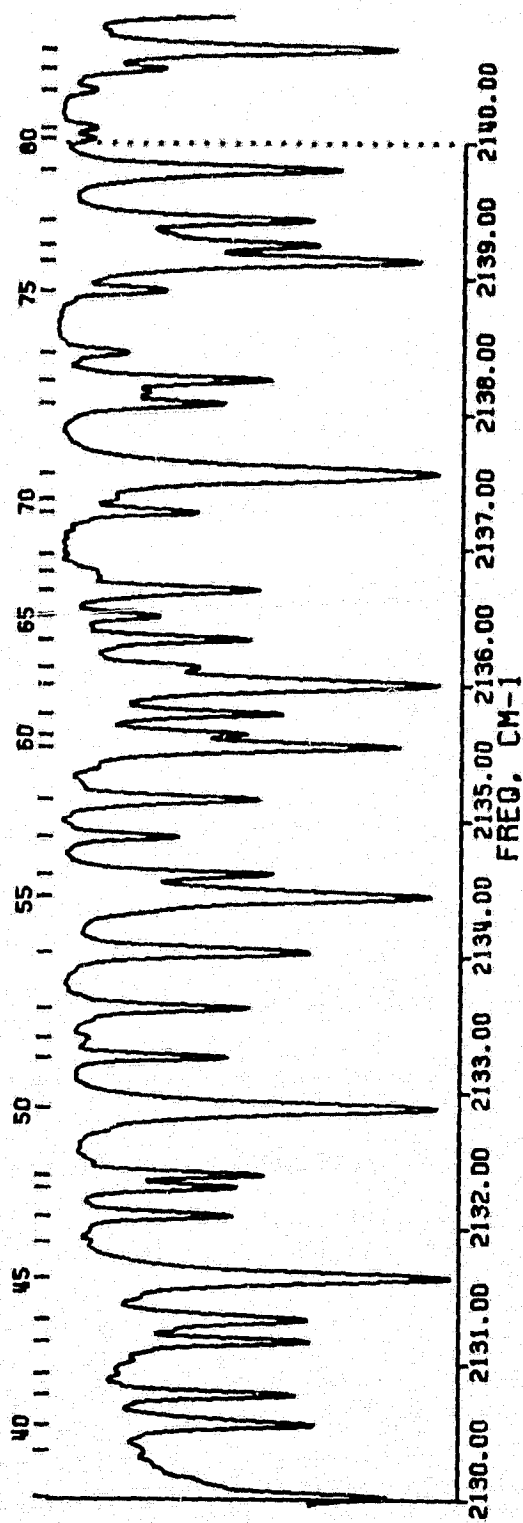
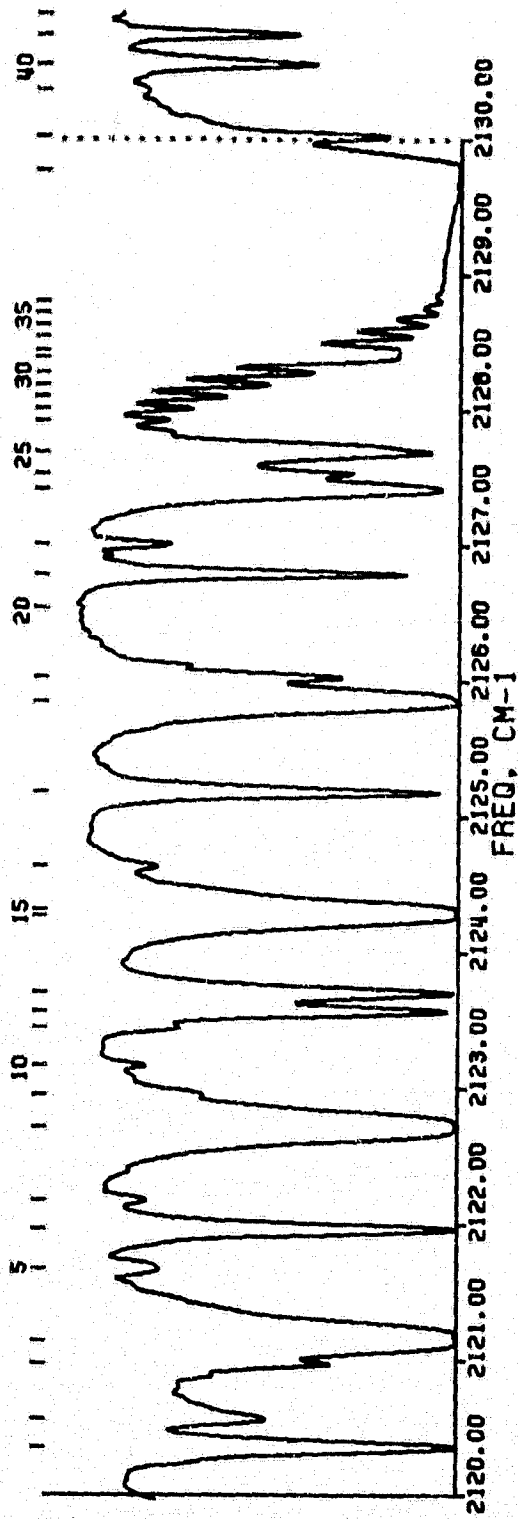
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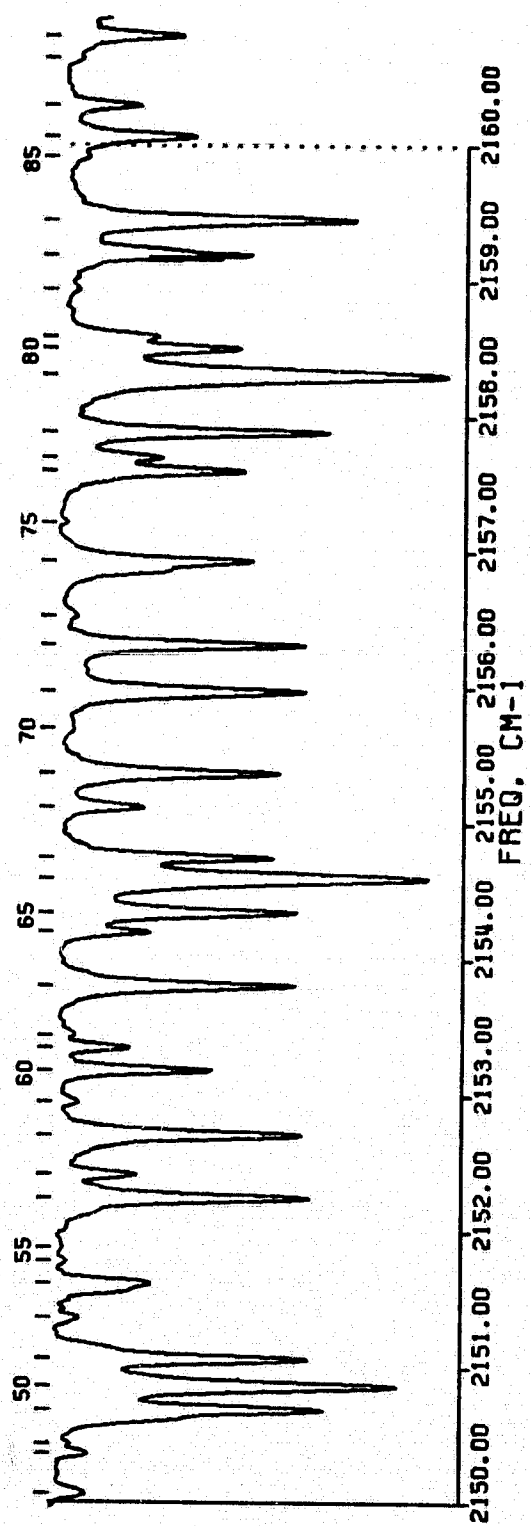
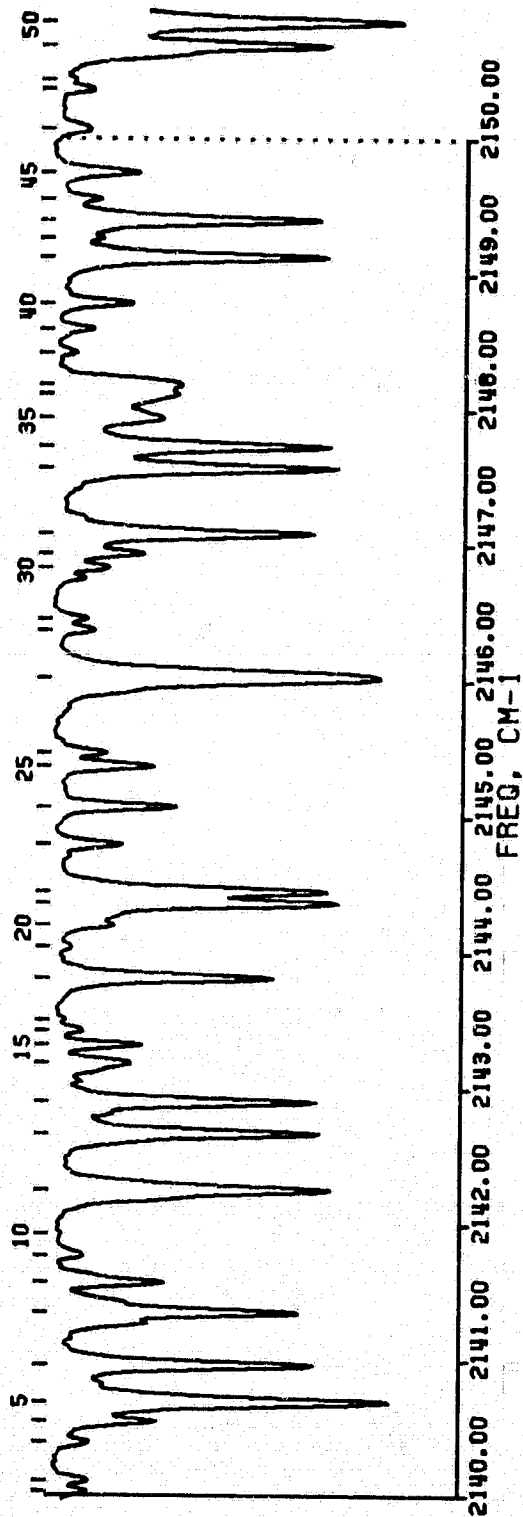
2120.354	2120.561	2120.967	2121.138	2121.670	5
2121.960	2122.172	2122.713	2122.949	2123.164	10
2123.446	2123.568	2123.703	2124.270	2124.317	15
2124.636	2125.180	2125.845	2126.028	2126.539	20
2126.788	2127.007	2127.415	2127.529	2127.687	25
2127.922	2128.011	2128.099	2128.188	2128.275	30
2128.391	2128.438	2128.540	2128.628	2128.716	35
2128.804	2129.764	2130.018	2130.360	2130.551	40
2130.770	2130.925	2131.163	2131.322	2131.635	45
2131.900	2132.091	2132.300	2132.390	2132.884	50
2133.260	2133.403	2133.621	2134.035	2134.445	55
2134.609	2134.885	2135.160	2135.549	2135.639	60
2135.790	2136.006	2136.132	2136.337	2136.509	65
2136.703	2136.838	2136.965	2137.273	2137.375	70
2137.562	2138.078	2138.251	2138.450	2138.910	75
2139.128	2139.247	2139.430	2139.801	2140.034	80
2140.110	2140.388	2140.548	2140.691		85

150



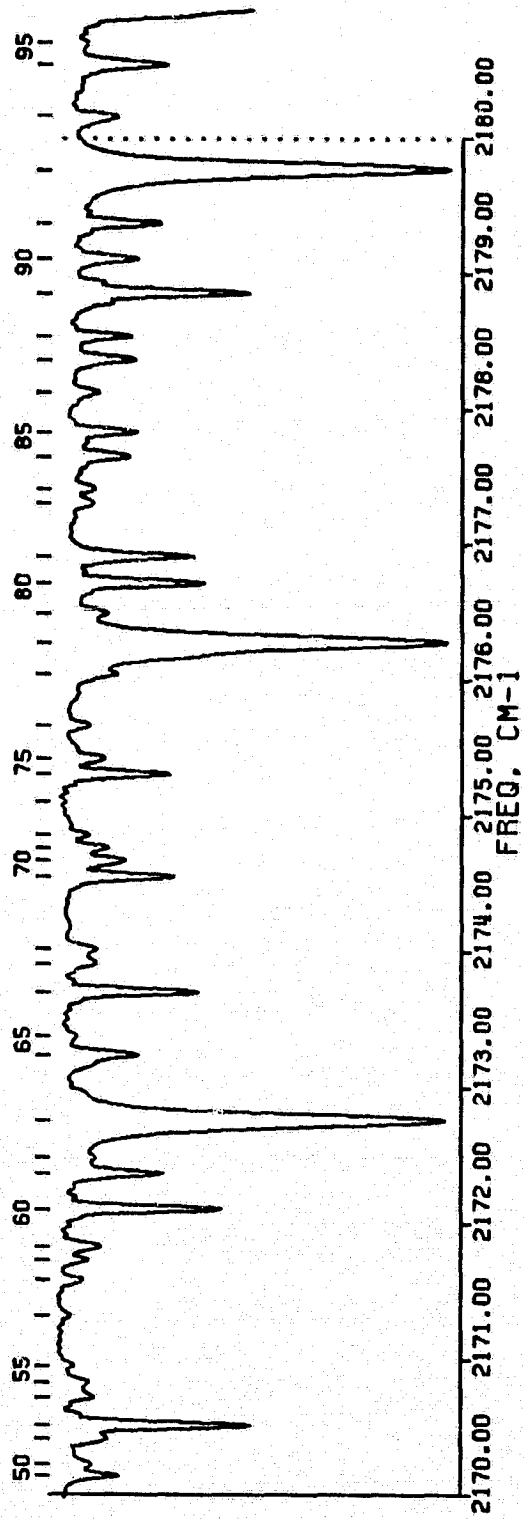
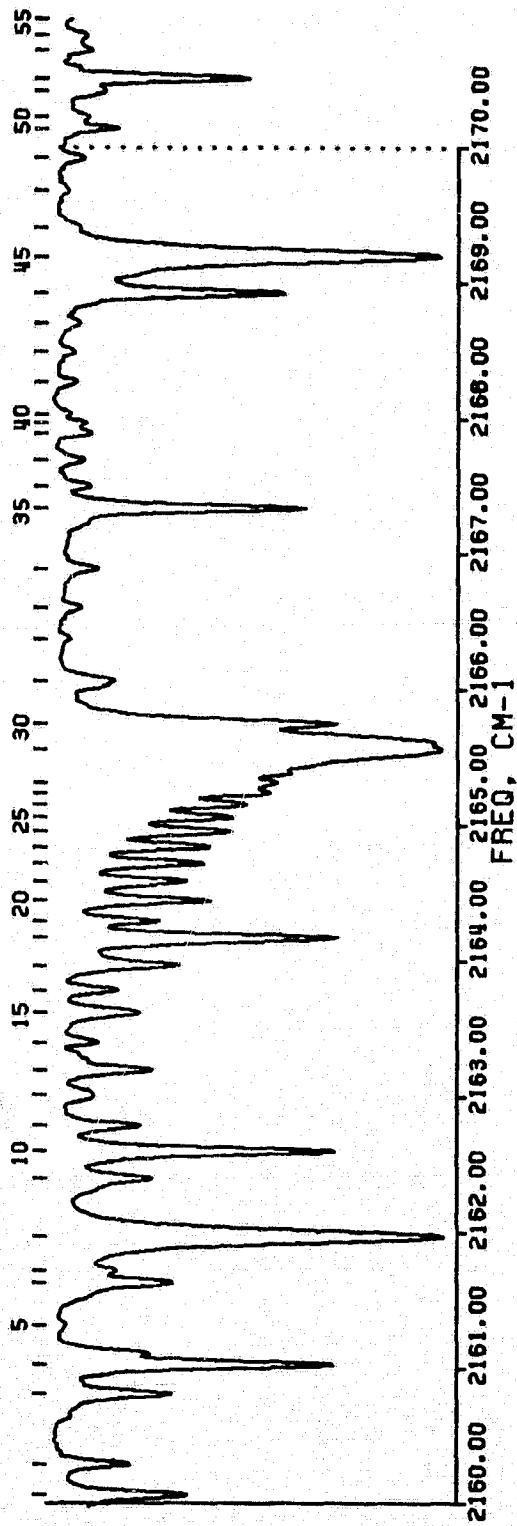


2140.033	2140.110	2140.394	2140.547	2140.691	5
2140.961	2141.346	2141.570	2141.767	2141.930	10
2142.250	2142.665	2142.899	2143.187	2143.319	15
2143.425	2143.505	2143.612	2144.043	2144.201	20
2144.366	2144.450	2144.795	2145.073	2145.372	25
2145.467	2146.024	2146.373	2146.456	2146.836	30
2146.938	2147.086	2147.568	2147.727	2147.937	35
2148.116	2148.186	2148.418	2148.595	2148.781	40
2149.125	2149.261	2149.398	2149.553	2149.747	45
2150.068	2150.360	2150.432	2150.682	2150.857	50
2151.058	2151.362	2151.615	2151.778	2151.881	55
2152.243	2152.416	2152.706	2152.946	2153.182	60
2153.350	2153.442	2153.806	2154.200	2154.345	65
2154.597	2154.746	2155.119	2155.370	2155.703	70
2155.972	2156.313	2156.528	2156.935	2157.215	75
2157.597	2157.694	2157.881	2158.300	2158.498	80
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2160.062	2160.290	2160.639	2160.804		90



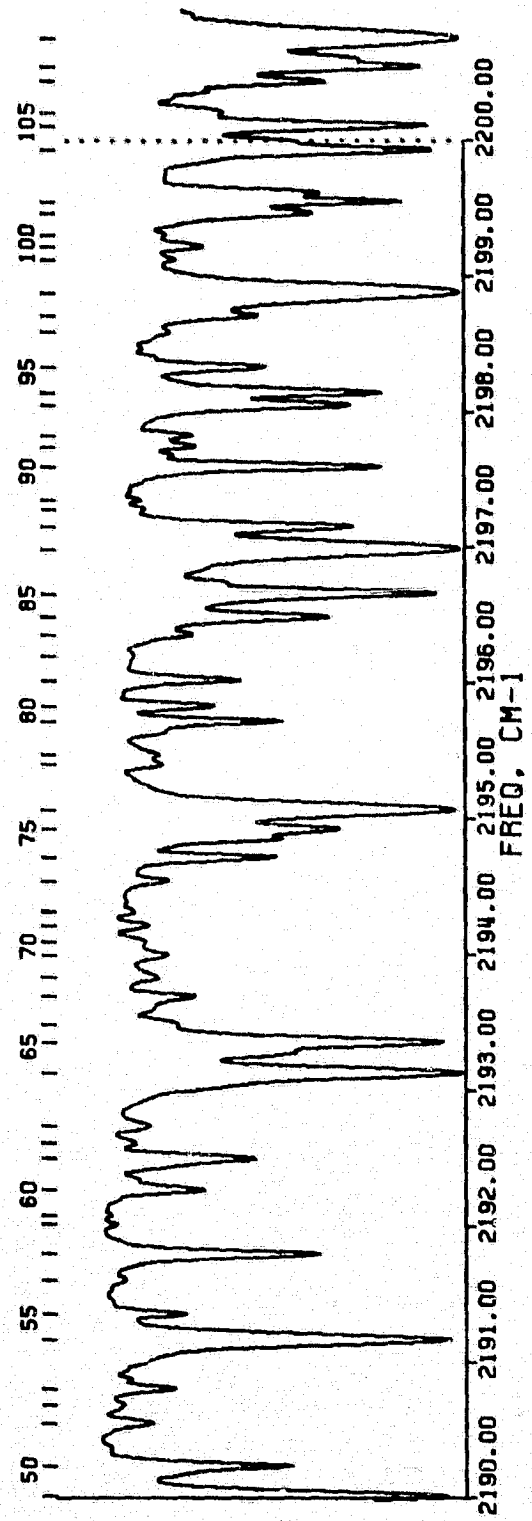
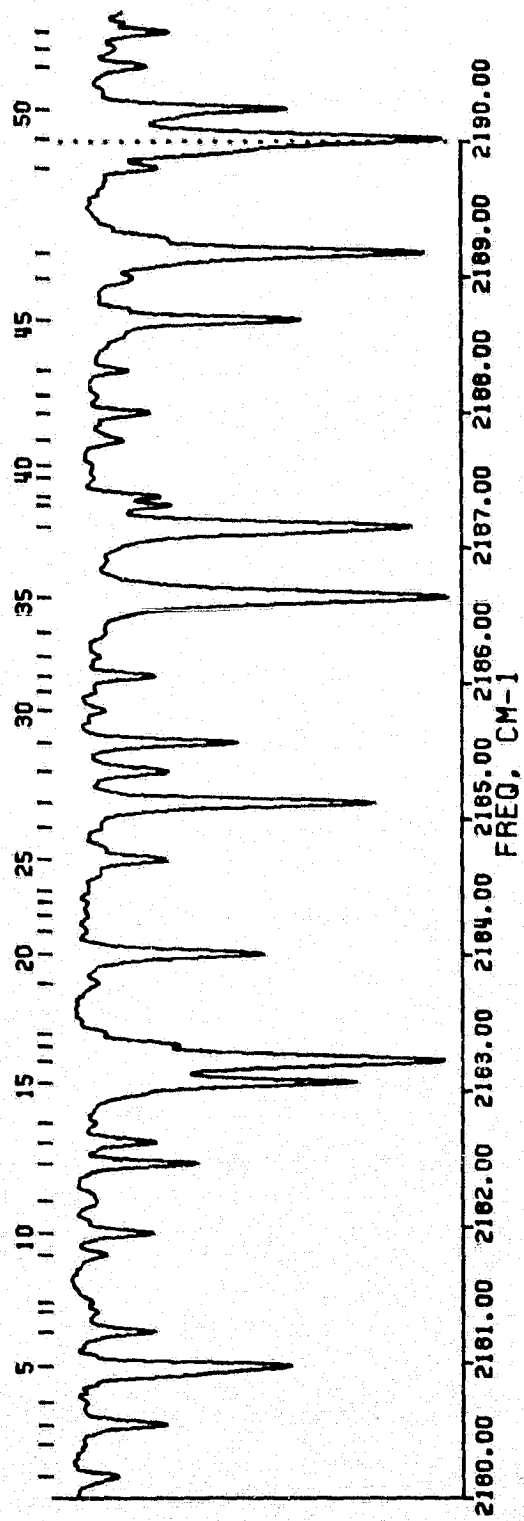
153

2160.062	2160.290	2160.804	2161.023	2161.314	5
2161.626	2161.714	2161.968	2162.394	2162.599	10
2162.785	2163.014	2163.196	2163.400	2163.618	15
2163.785	2163.967	2164.171	2164.293	2164.445	20
2164.590	2164.718	2164.842	2164.956	2165.060	25
2165.156	2165.240	2165.315	2165.559	2165.747	30
2166.062	2166.375	2166.606	2166.892	2167.336	35
2167.500	2167.696	2167.890	2167.968	2168.033	40
2168.270	2168.490	2168.703	2168.925	2169.196	45
2169.410	2169.680	2169.925	2170.141	2170.226	50
2170.416	2170.511	2170.715	2170.828	2170.950	55
2171.319	2171.584	2171.731	2171.831	2172.105	60
2172.368	2172.487	2172.757	2173.243	2173.383	65
2173.706	2173.918	2174.025	2174.556	2174.678	70
2174.770	2174.865	2175.111	2175.314	2175.425	75
2175.673	2176.050	2176.282	2176.496	2176.719	80
2176.918	2177.307	2177.415	2177.654	2177.834	85
2178.126	2178.368	2178.541	2178.859	2179.115	90
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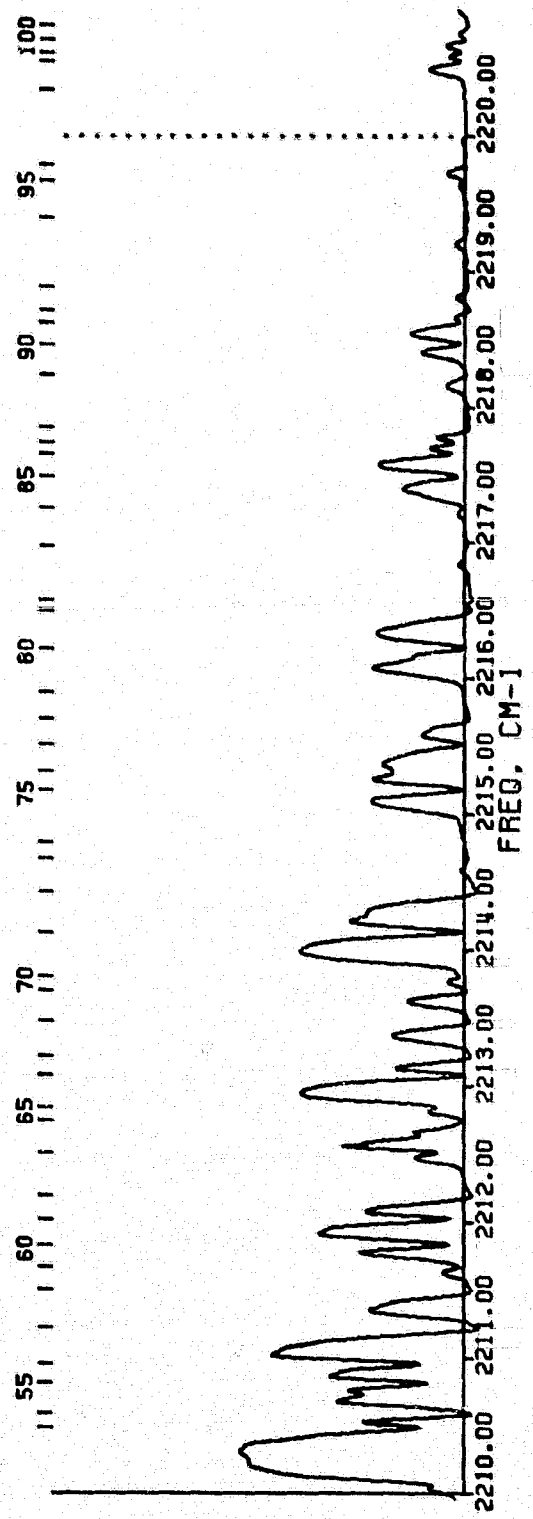
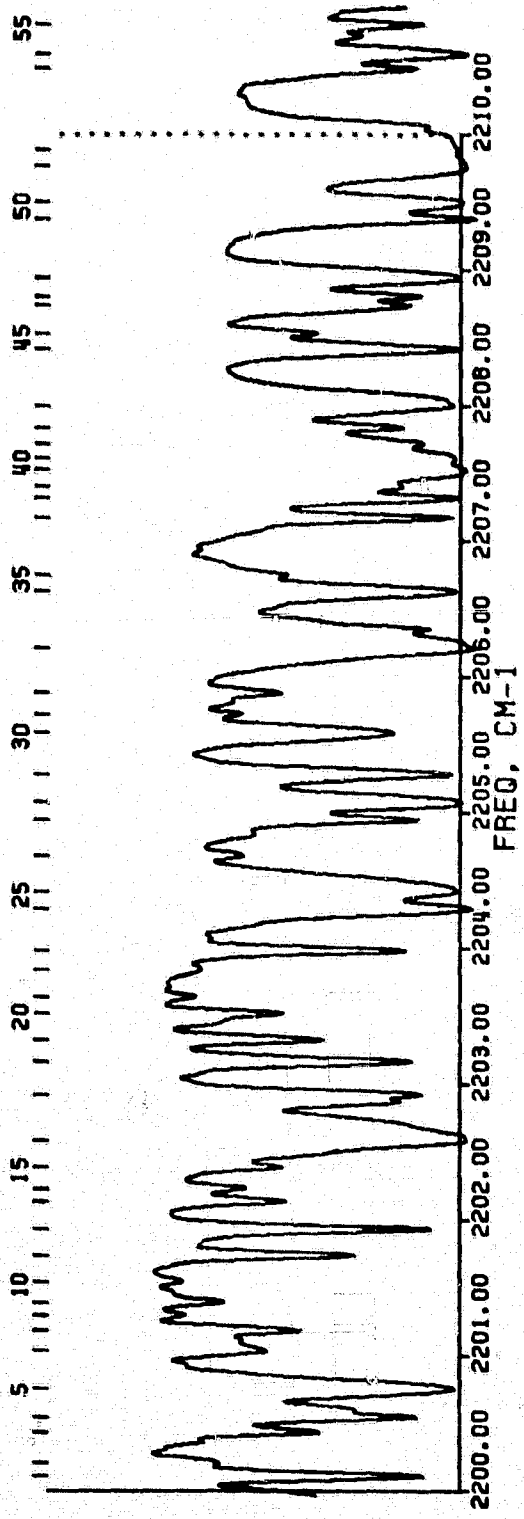


53

2180.165	2180.403	2180.544	2180.706	2180.974	5
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2182.191	2182.465	2182.622	2182.765	2183.064	15
2183.223	2183.336	2183.427	2183.793	2184.010	20
2184.182	2184.293	2184.388	2184.475	2184.706	25
2184.945	2185.123	2185.356	2185.568	2185.806	30
2185.942	2186.057	2186.201	2186.380	2186.638	35
2187.157	2187.314	2187.379	2187.518	2187.611	40
2187.797	2188.000	2188.126	2188.311	2188.680	45
2188.988	2189.178	2189.801	2190.017	2190.238	50
2190.555	2190.687	2190.808	2191.166	2191.355	55
2191.606	2191.801	2192.015	2192.082	2192.267	60
2192.500	2192.613	2192.740	2193.131	2193.359	65
2193.488	2193.698	2193.835	2194.001	2194.096	70
2194.217	2194.319	2194.547	2194.722	2194.930	75
2195.069	2195.403	2195.477	2195.721	2195.836	80
2196.025	2196.205	2196.361	2196.490	2196.662	85
2196.990	2197.155	2197.285	2197.350	2197.595	90
2197.747	2197.830	2198.053	2198.143	2198.331	95
2198.589	2198.710	2198.878	2199.126	2199.220	100
2199.306	2199.468	2199.551	2199.934	2200.113	105
2200.211	2200.436	2200.546	2200.755		110



2200.113	2200.209	2200.436	2200.546	2200.755	5
2201.036	2201.184	2201.296	2201.391	2201.545	10
2201.741	2201.932	2202.138	2202.231	2202.387	15
2202.586	2202.923	2203.166	2203.326	2203.521	20
2203.645	2203.847	2203.983	2204.292	2204.420	25
2204.683	2204.948	2205.074	2205.284	2205.585	30
2205.725	2205.881	2206.210	2206.630	2206.750	35
2207.171	2207.317	2207.398	2207.526	2207.608	40
2207.716	2207.838	2207.998	2208.413	2208.530	45
2208.735	2208.803	2208.941	2209.373	2209.501	50
2209.765	2209.888	2210.485	2210.590	2210.811	55
2210.951	2211.218	2211.500	2211.669	2211.833	60
2212.021	2212.196	2212.509	2212.745	2212.841	65
2213.078	2213.219	2213.480	2213.705	2213.810	70
2214.135	2214.433	2214.678	2214.795	2215.184	75
2215.321	2215.518	2215.706	2215.905	2216.226	80
2216.503	2216.583	2216.983	2217.261	2217.489	85
2217.659	2217.742	2217.859	2218.241	2218.468	90
2218.628	2218.719	2218.892	2219.397	2219.668	95
2219.788	2220.339	2220.551	2220.618	2220.711	100
2220.818					105



55



2220.339	2220.551	2220.618	2220.711	2220.818	5
2221.097	2221.861	2222.500	2222.653	2222.769	10
2222.910	2223.428	2224.665	2225.271	2229.504	15
2240.920					20

1600

15

10

5

2220.00 2221.00 2222.00 2223.00 2224.00 2225.00 2226.00 2227.00 2228.00 2229.00 2230.00  
 FREQ, CM-1

2230.00 2231.00 2232.00 2233.00 2234.00 2235.00 2236.00 2237.00 2238.00 2239.00 2240.00  
 FREQ, CM-1

5

2260.906

162

2240.00 2241.00 2242.00 2243.00 2244.00 2245.00 2246.00 2247.00 2248.00 2249.00 2250.00  
FREQ, CM-1

2250.00 2251.00 2252.00 2253.00 2254.00 2255.00 2256.00 2257.00 2258.00 2259.00 2260.00  
FREQ, CM-1

5

2280.905

2260.00 2261.00 2262.00 2263.00 2264.00 2265.00 2266.00 2267.00 2268.00 2269.00 2270.00  
FREQ, CM-1

2270.00 2271.00 2272.00 2273.00 2274.00 2275.00 2276.00 2277.00 2278.00 2279.00 2280.00  
FREQ, CM-1

125

5

2300.925

2280.00 2281.00 2282.00 2283.00 2284.00 2285.00 2286.00 2287.00 2288.00 2289.00 2290.00  
FREQ. CM-1

2290.00 2291.00 2292.00 2293.00 2294.00 2295.00 2296.00 2297.00 2298.00 2299.00 2300.00  
FREQ. CM-1

157



5

2320.891

108

2300.00 2301.00 2302.00 2303.00 2304.00 2305.00 2306.00 2307.00 2308.00 2308.00 2309.00 2310.00  
FREQ, CM-1

2310.00 2311.00 2312.00 2313.00 2314.00 2315.00 2316.00 2317.00 2318.00 2319.00 2320.00  
FREQ, CM-1

5

2340.936

1952-53

2320.00 2321.00 2322.00 2323.00 2324.00 2325.00 2326.00 2327.00 2328.00 2329.00 2330.00  
FREQ, CM-1

2350.00 2351.00 2352.00 2353.00 2354.00 2355.00 2356.00 2357.00 2358.00 2359.00 2360.00  
FREQ, CM-1

5

2360.886

172

2340.00 2341.00 2342.00 2343.00 2344.00 2345.00 2346.00 2347.00 2348.00 2349.00 2350.00  
FREQ, CM-1

2350.00 2351.00 2352.00 2353.00 2354.00 2355.00 2356.00 2357.00 2358.00 2359.00 2360.00  
FREQ, CM-1

12

5

2380.903

124

2360.00 2361.00 2362.00 2363.00 2364.00 2365.00 2366.00 2367.00 2368.00 2369.00 2370.00  
FREQ, CM-1

2370.00 2371.00 2372.00 2373.00 2374.00 2375.00 2376.00 2377.00 2378.00 2379.00 2380.00  
FREQ, CM-1



5

2400.820

21

2380.00 2381.00 2382.00 2383.00 2384.00 2385.00 2386.00 2387.00 2388.00 2389.00 2390.00  
FREQ, CM-1

2390.00 2391.00 2392.00 2393.00 2394.00 2395.00 2396.00 2397.00 2398.00 2399.00 2400.00  
FREQ, CM-1

174

5

2420.935

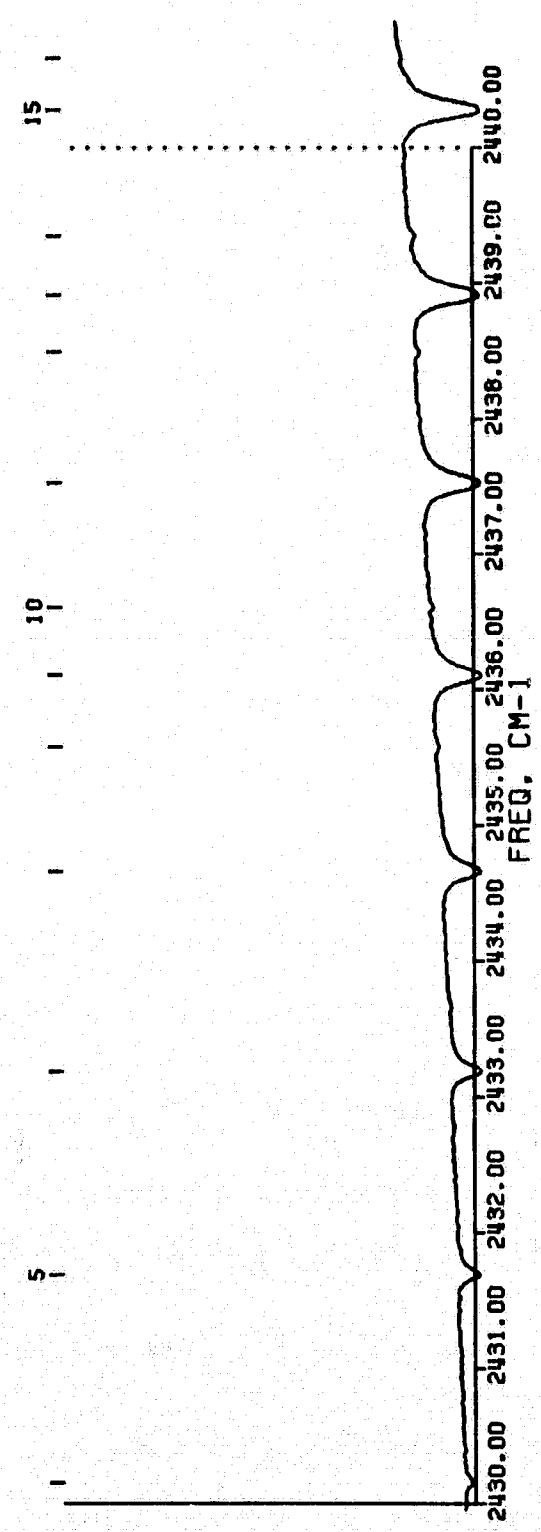
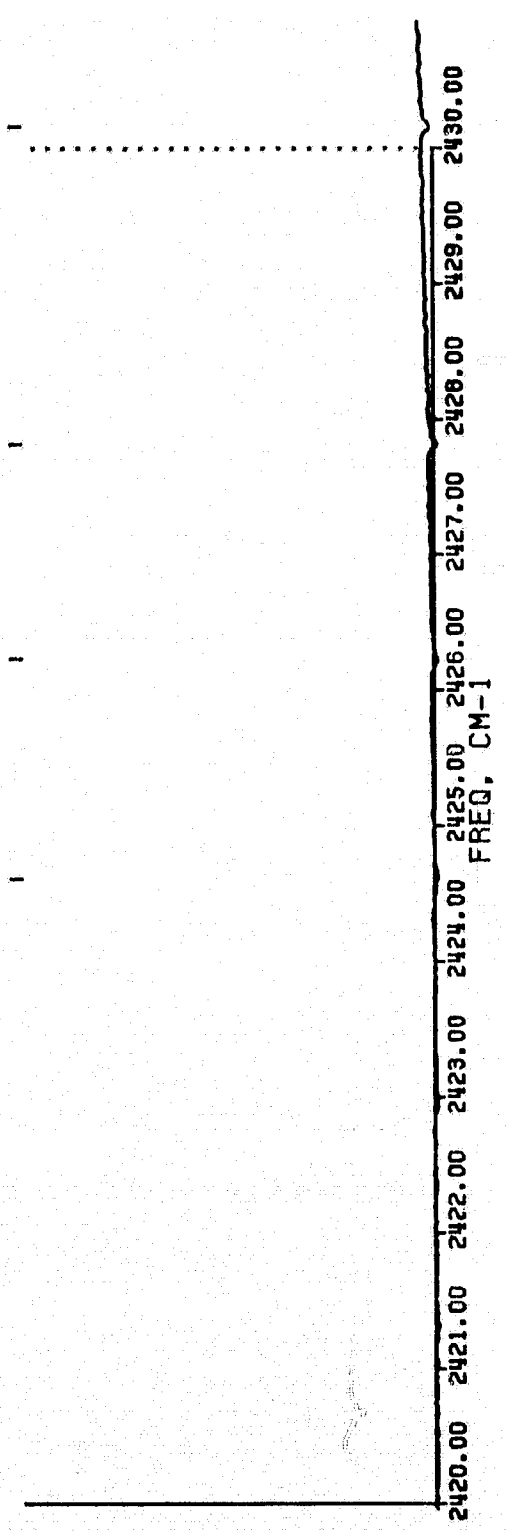
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FREQ. CM-1

2410.00 2411.00 2412.00 2413.00 2414.00 2415.00 2416.00 2417.00 2418.00 2419.00 2420.00  
FREQ. CM-1

2424.611	2426.230	2427.813	2430.158	2431.691	5
2433.188	2434.665	2435.580	2436.111	2436.608	10
2437.526	2438.495	2438.911	2439.345	2440.280	15
2440.660					20

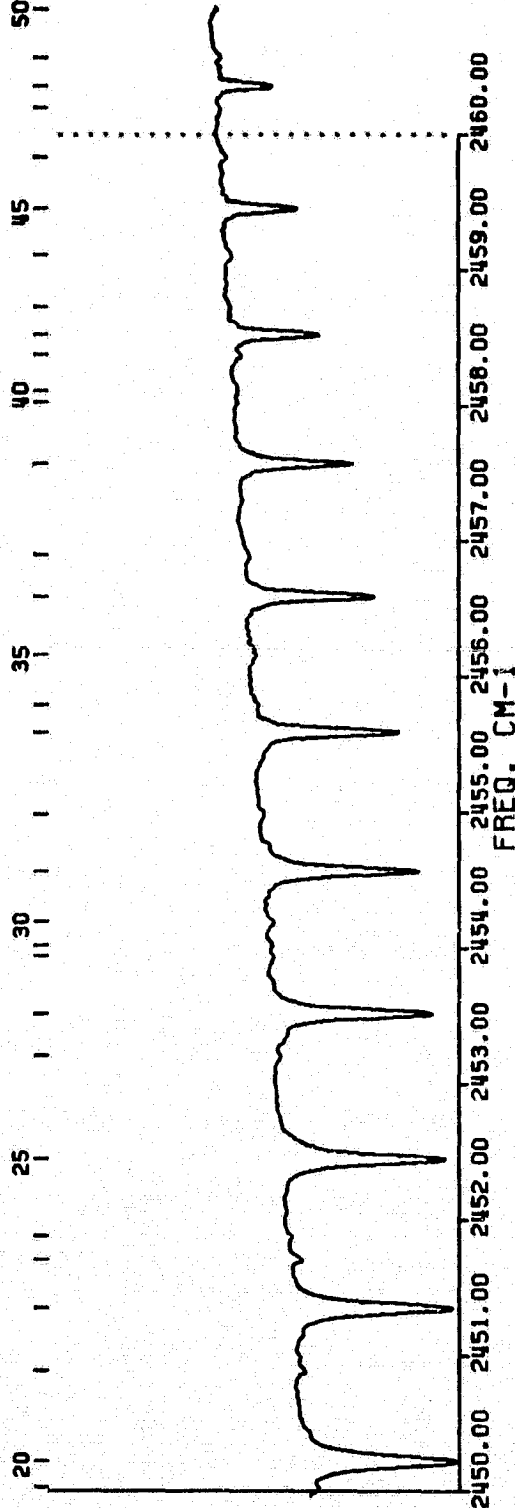
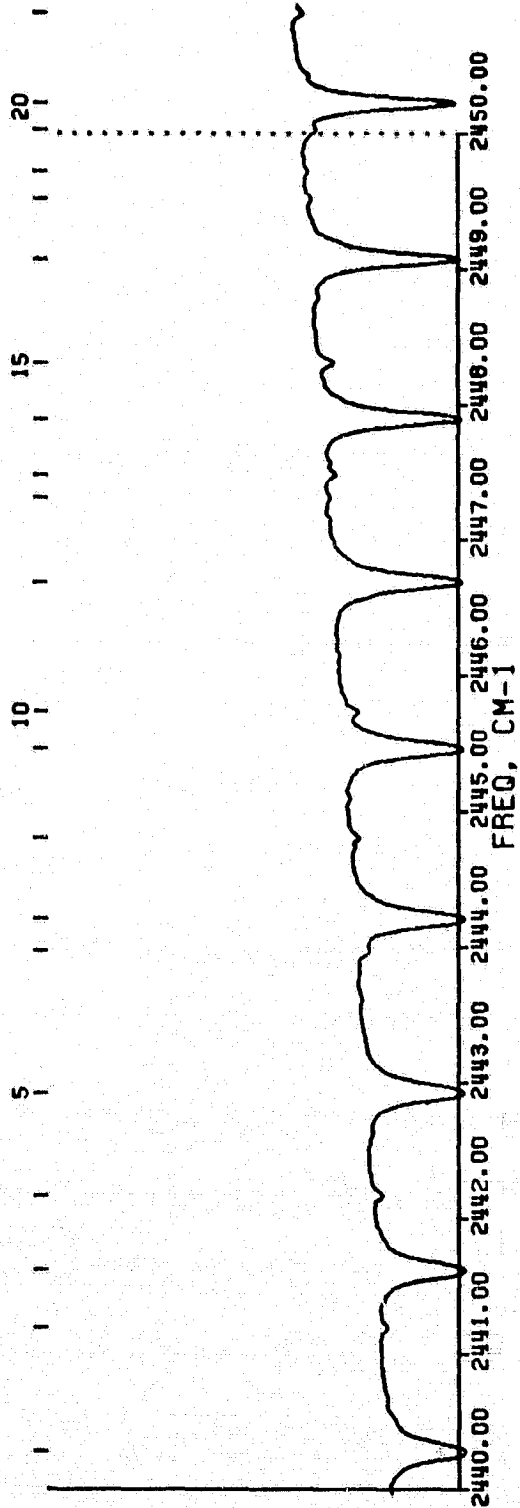
130



161

2440.280	2441.193	2441.618	2442.168	2442.924	5
2443.972	2444.210	2444.803	2445.459	2445.733	10
2446.689	2447.306	2447.480	2447.892	2448.305	15
2449.069	2449.515	2449.716	2450.027	2450.220	20
2450.885	2451.344	2451.706	2451.878	2452.446	25
2453.205	2453.517	2453.943	2454.022	2454.195	30
2454.566	2454.988	2455.591	2455.792	2456.160	35
2456.591	2456.896	2457.571	2458.026	2458.105	40
2458.372	2458.521	2458.723	2459.106	2459.450	45
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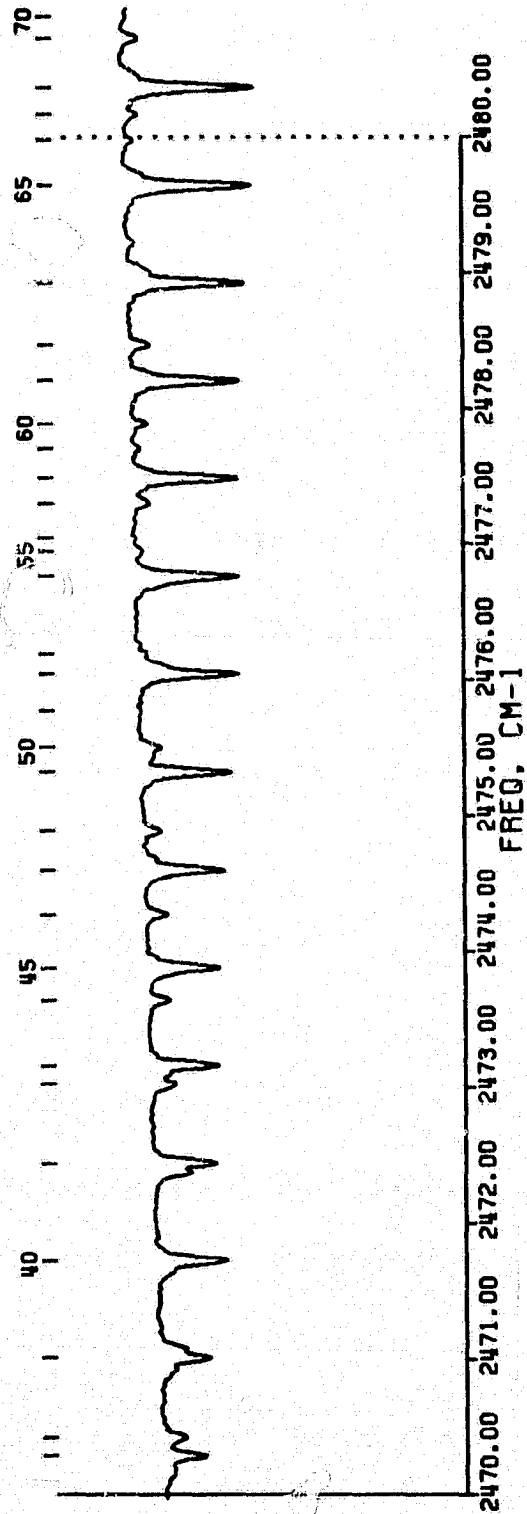
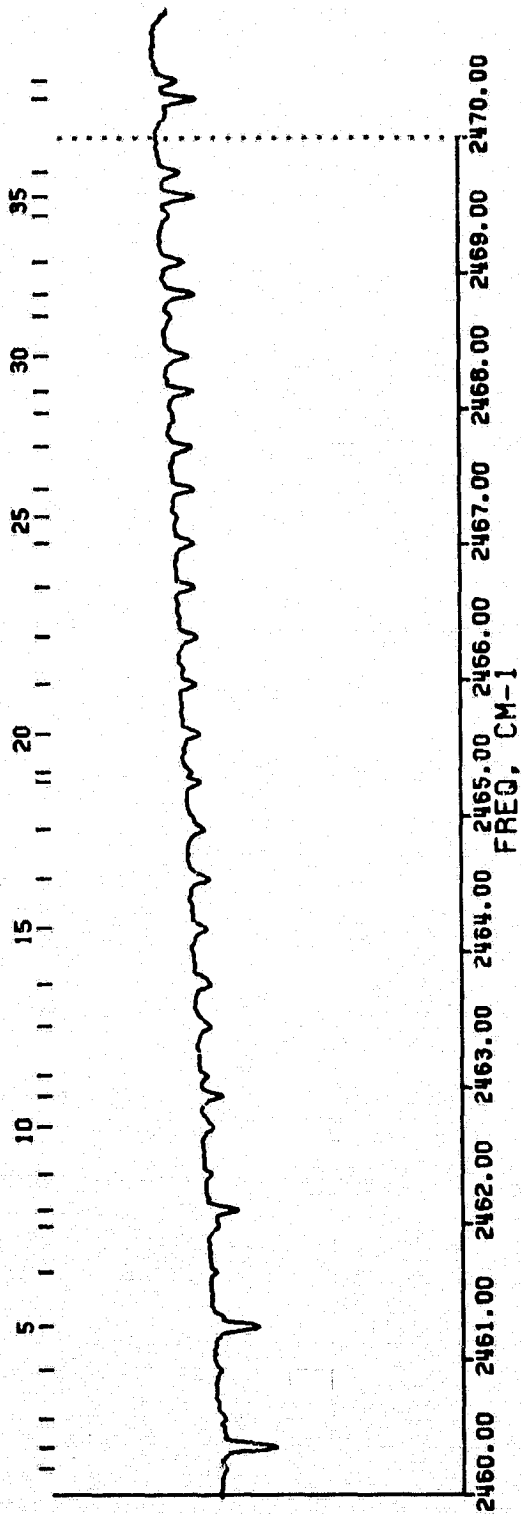


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2460.195	2460.355	2460.564	2460.918	2461.241	5
2461.643	2461.980	2462.097	2462.364	2462.709	10
2462.938	2463.087	2463.451	2463.761	2464.171	15
2464.537	2464.900	2465.250	2465.325	2465.601	20
2465.971	2466.320	2466.688	2467.011	2467.208	25
2467.406	2467.722	2467.968	2468.128	2468.390	30
2468.681	2468.846	2469.084	2469.423	2469.567	35
2469.746	2470.287	2470.420	2471.009	2471.726	40
2472.441	2473.026	2473.162	2473.642	2473.881	45
2474.273	2474.600	2474.888	2475.321	2475.503	50
2475.770	2476.043	2476.193	2476.763	2476.949	55
2477.041	2477.298	2477.485	2477.703	2477.885	60
2478.203	2478.463	2478.922	2479.217	2479.641	65
2479.975	2480.168	2480.364	2480.728	2480.885	70

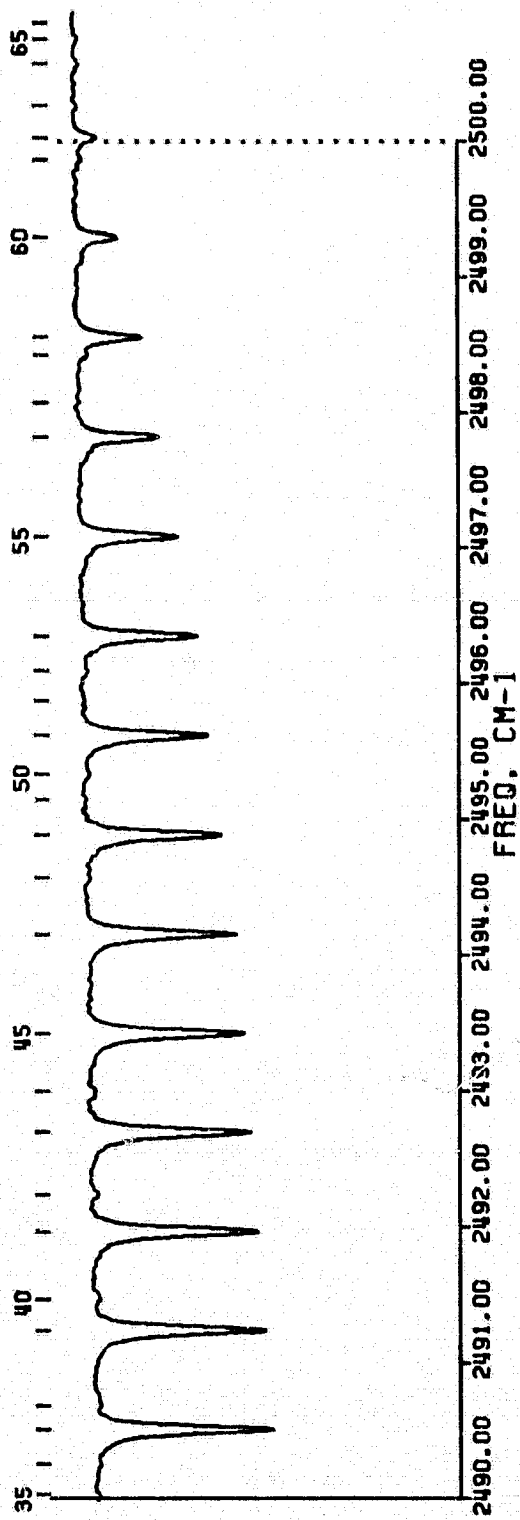
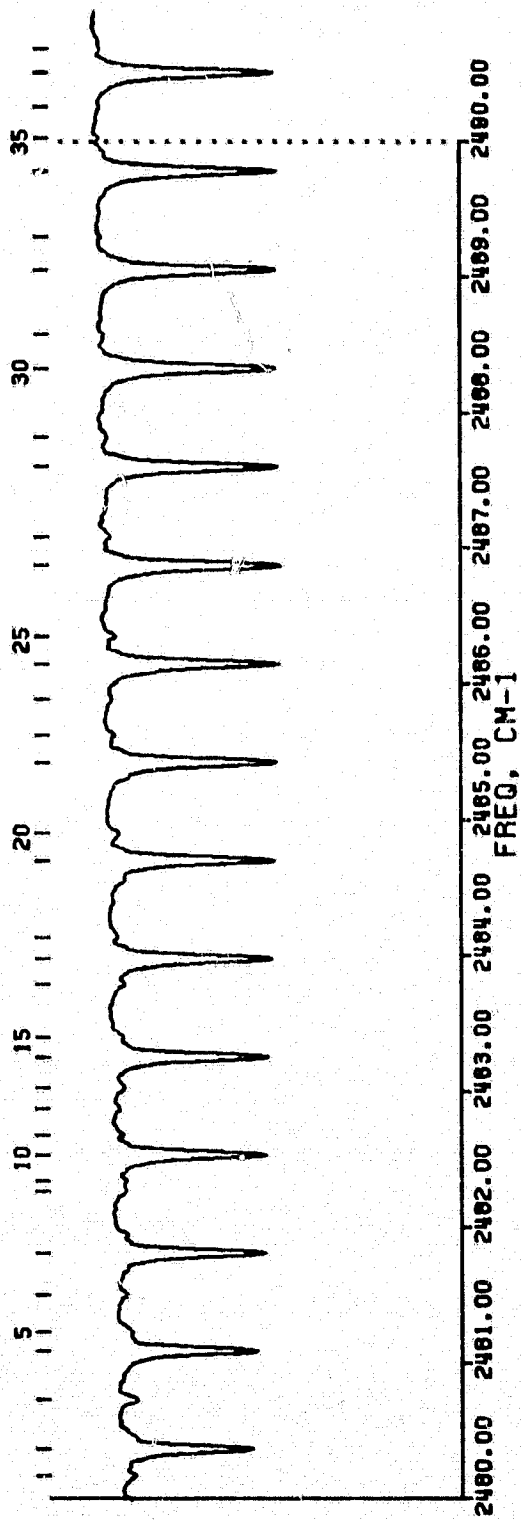
184



55

2480.171	2480.364	2480.728	2481.085	2481.226	5
2481.500	2481.807	2482.262	2482.341	2482.530	10
2482.676	2482.870	2483.026	2483.253	2483.399	15
2483.790	2483.976	2484.133	2484.700	2484.901	20
2485.423	2485.623	2485.889	2486.148	2486.352	25
2486.873	2487.085	2487.601	2487.825	2488.328	30
2488.576	2489.055	2489.300	2489.782	2490.026	35
2490.255	2490.508	2490.681	2491.236	2491.466	40
2491.965	2492.234	2492.696	2493.000	2493.427	45
2494.156	2494.575	2494.867	2495.150	2495.335	50
2495.621	2495.875	2496.097	2496.353	2497.085	55
2497.823	2498.075	2498.425	2498.554	2499.288	60
2499.866	2500.027	2500.265	2500.571	2500.756	65
2500.876					70

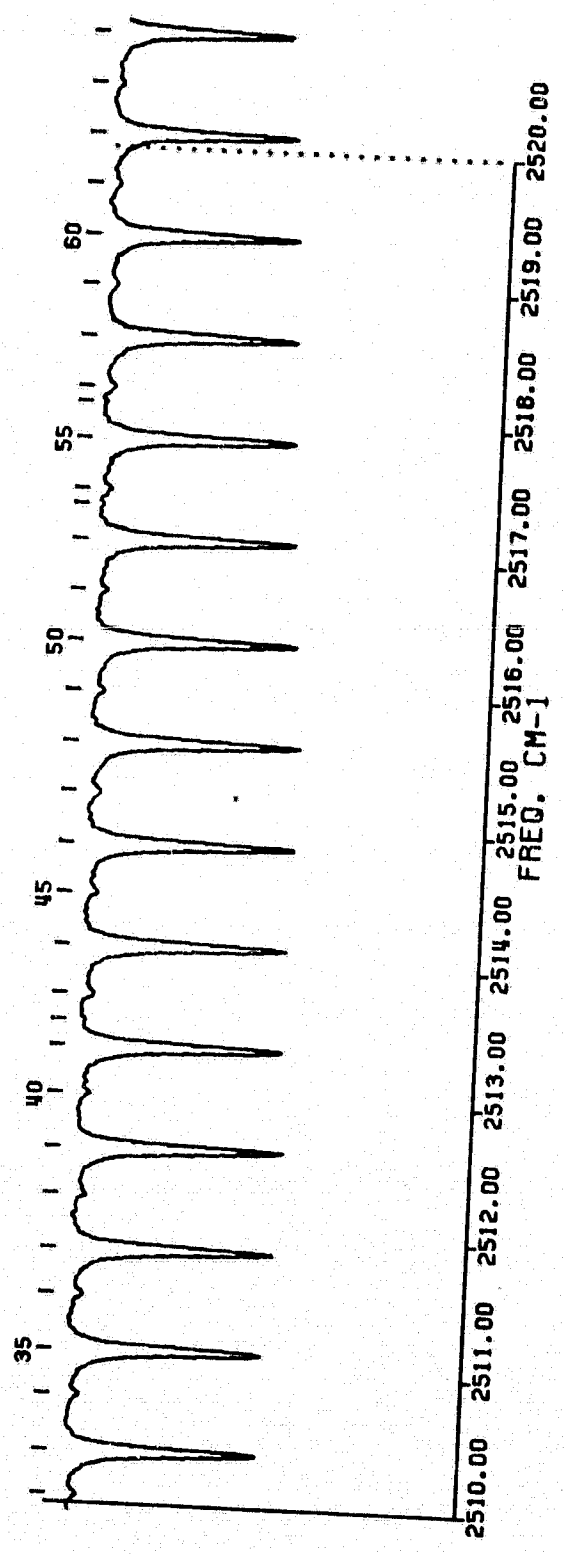
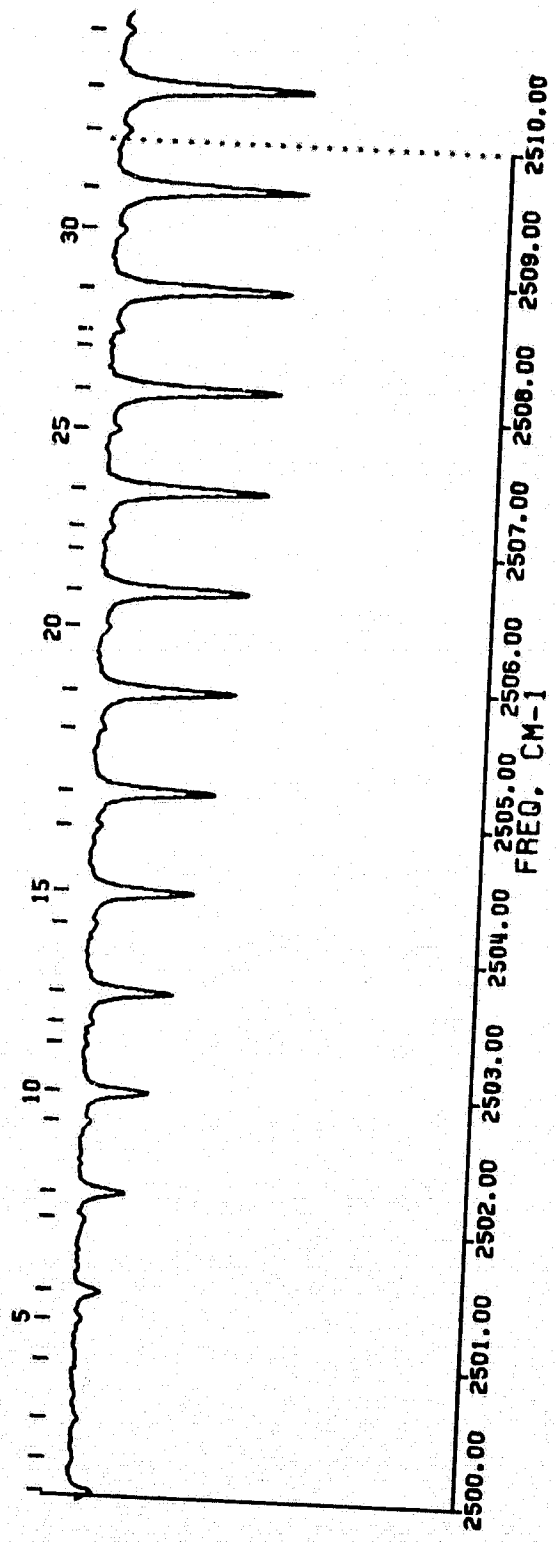
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746

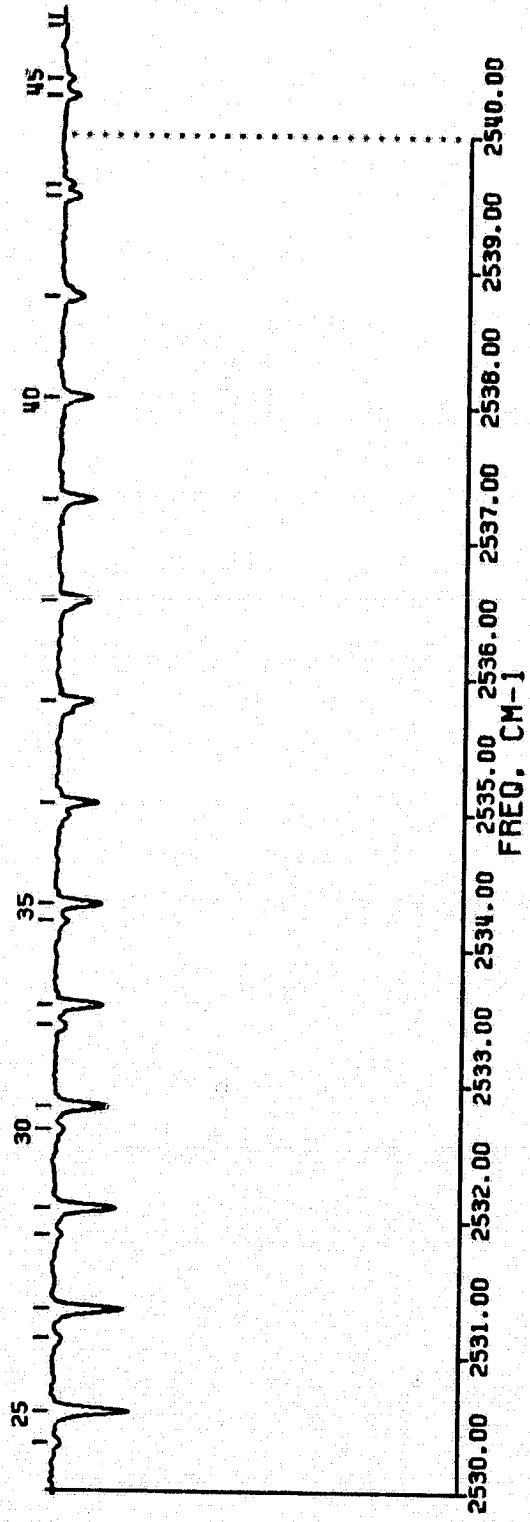
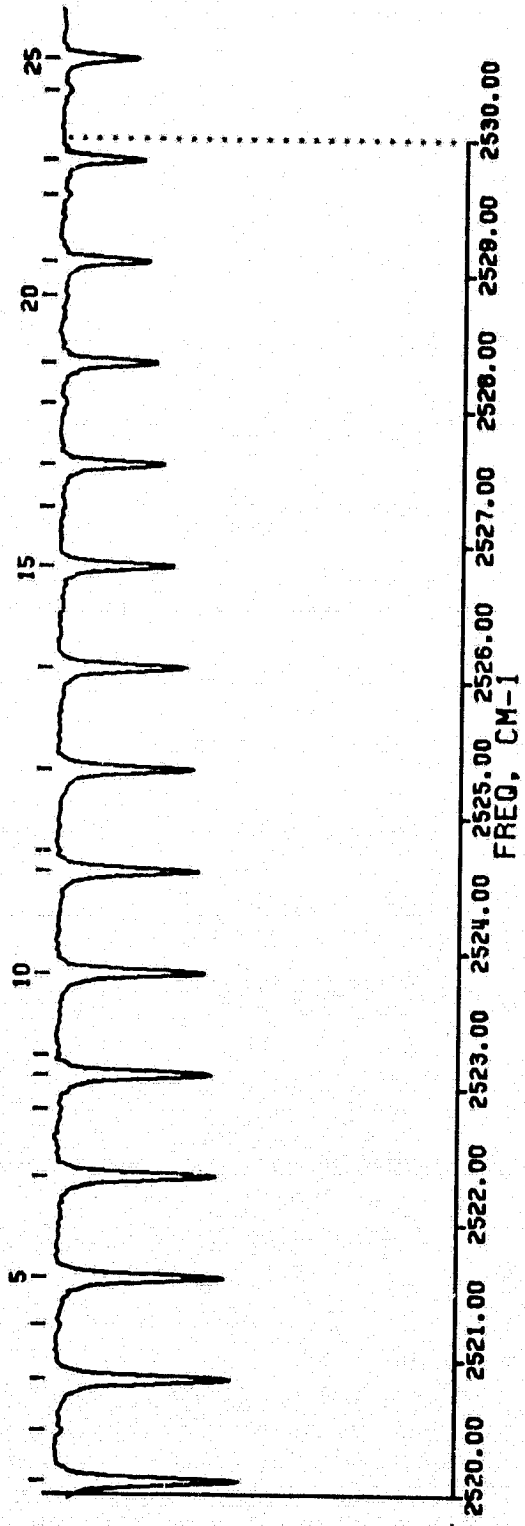
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2504.940	2505.191	2505.654	2505.934	2506.405	20
2506.675	2506.976	2507.140	2507.415	2507.861	25
2508.161	2508.470	2508.593	2508.900	2509.338	30
2509.644	2510.065	2510.390	2510.803	2511.131	35
2511.541	2511.876	2512.276	2512.623	2513.020	40
2513.369	2513.558	2513.753	2514.113	2514.498	45
2514.859	2515.243	2515.608	2515.985	2516.356	50
2516.726	2517.103	2517.359	2517.472	2517.850	55
2518.113	2518.228	2518.597	2518.984	2519.346	60
2519.725	2520.097	2520.469	2520.846		65

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2520.097	2520.469	2520.846	2521.245	2521.595	5
2522.343	2522.837	2523.091	2523.237	2523.840	10
2524.591	2524.742	2525.341	2526.092	2526.843	15
2527.277	2527.591	2528.044	2528.339	2528.834	20
2529.087	2529.581	2529.836	2530.350	2530.586	25
2531.123	2531.336	2531.886	2532.084	2532.663	30
2532.833	2533.430	2533.578	2534.201	2534.325	35
2535.073	2535.821	2536.560	2537.306	2538.060	40
2538.803	2539.542	2539.628	2540.287	2540.411	45
2540.800	2540.863				50

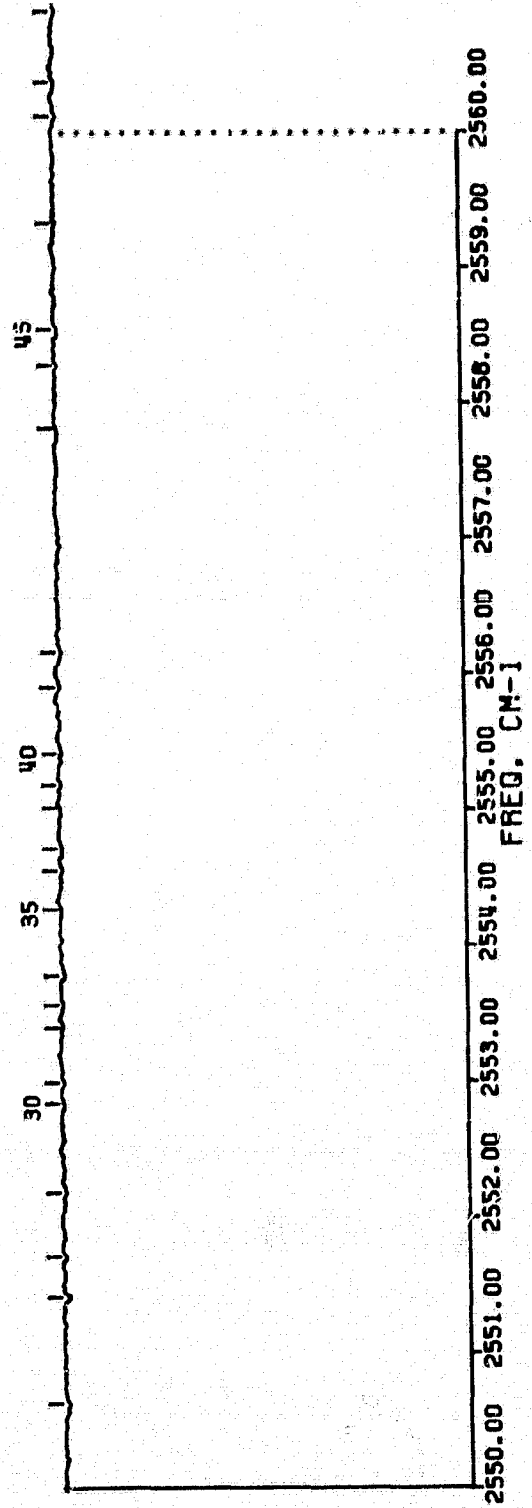
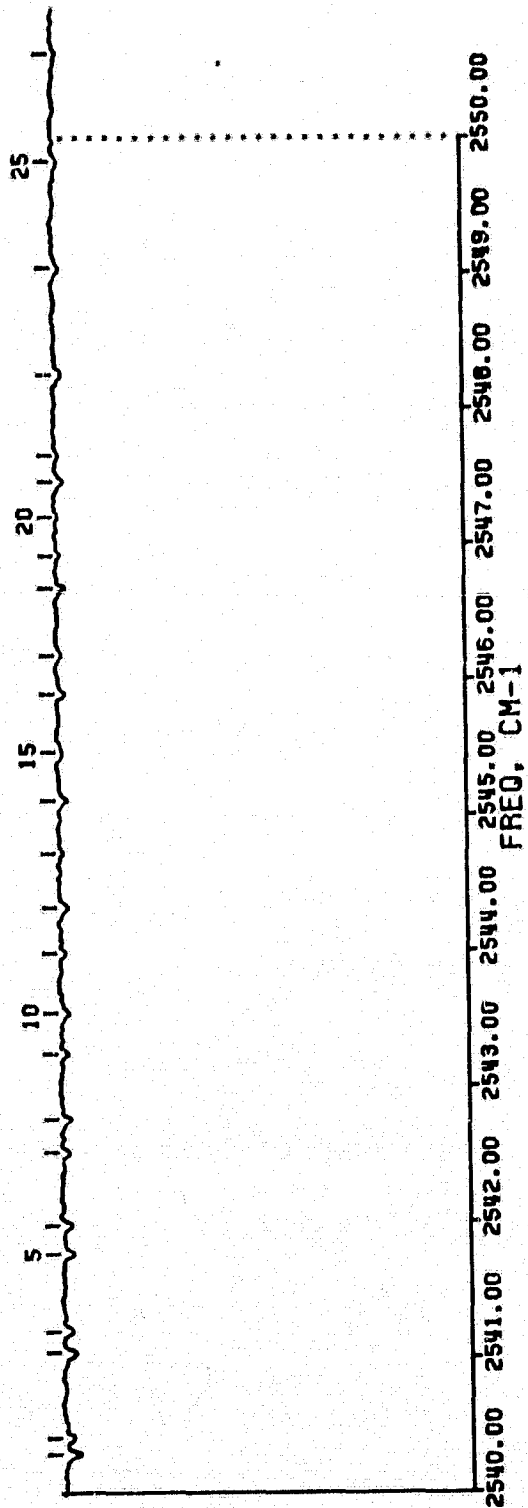
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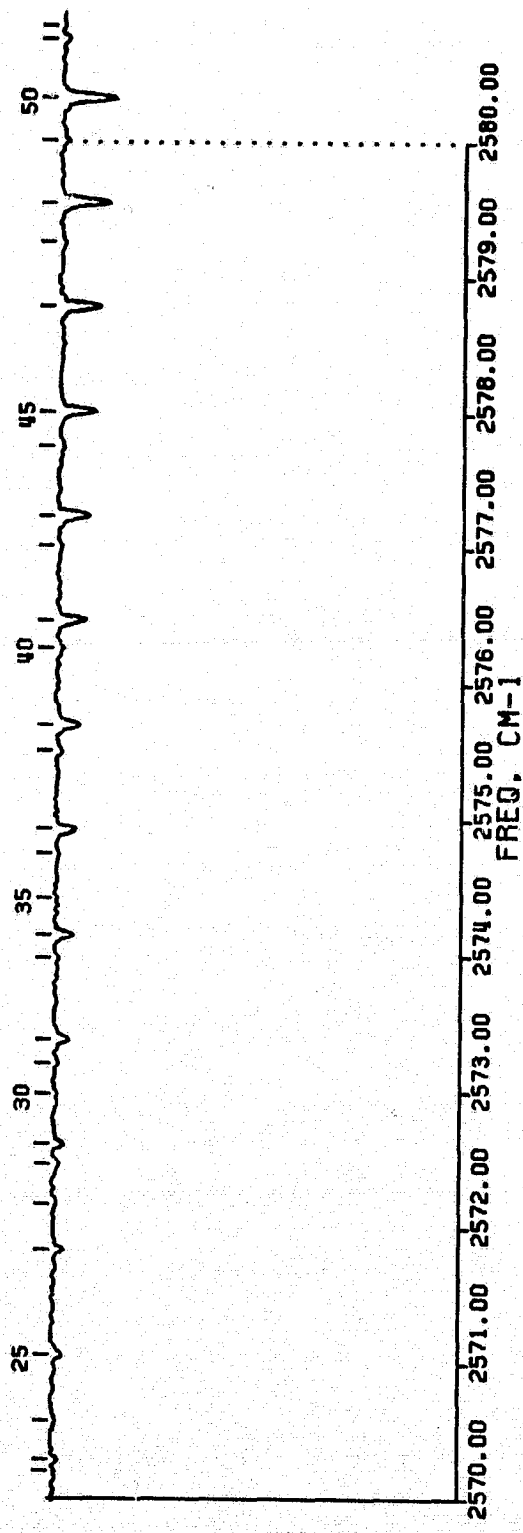
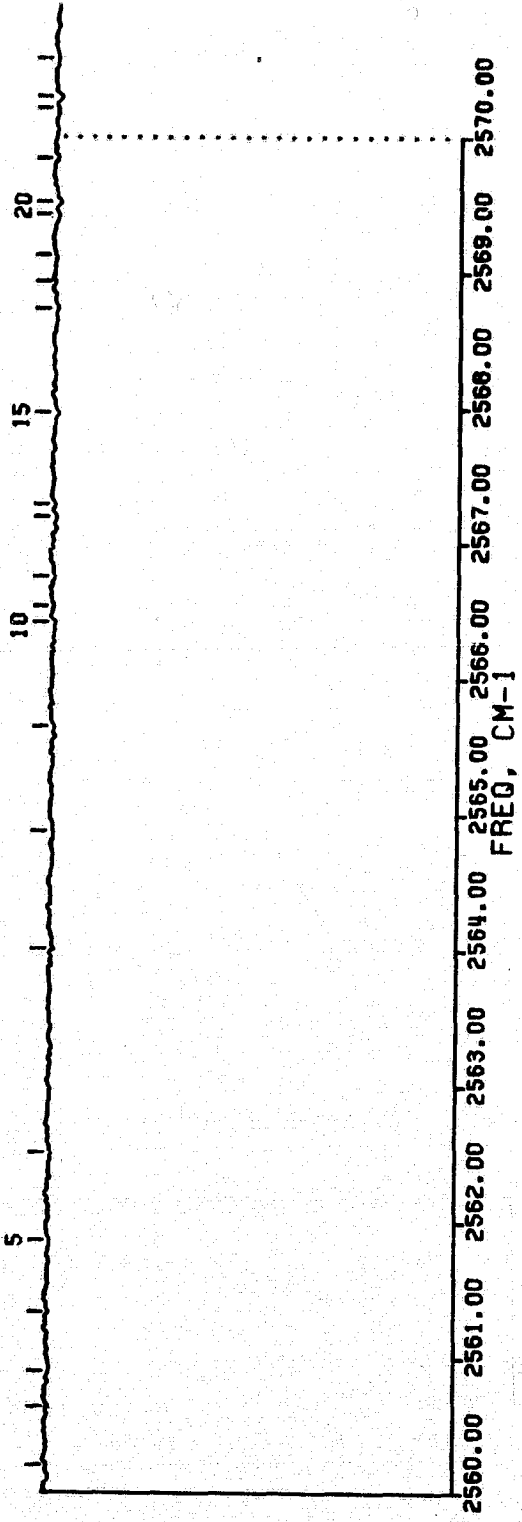
15



2540.287	2540.410	2541.036	2541.194	2541.765	5
2541.975	2542.512	2542.758	2543.242	2543.542	10
2543.987	2544.319	2544.720	2545.111	2545.468	15
2545.894	2546.185	2546.680	2546.921	2547.203	20
2547.463	2547.659	2548.251	2549.038	2549.825	25
2550.623	2551.407	2551.710	2552.179	2552.838	30
2552.989	2553.398	2553.566	2553.779	2554.271	35
2554.560	2554.719	2555.021	2555.191	2555.417	40
2555.911	2556.168	2557.824	2558.280	2558.548	45
2559.334	2560.123	2560.375	2560.901		50



2560.206	2560.630	2560.901	2561.334	2561.863	5
2562.510	2564.006	2564.875	2565.643	2566.412	10
2566.535	2566.751	2567.192	2567.283	2567.963	15
2568.723	2568.927	2569.123	2569.425	2569.516	20
2569.837	2570.208	2570.289	2570.575	2571.058	25
2571.837	2572.170	2572.466	2572.616	2572.983	30
2573.211	2573.383	2573.987	2574.155	2574.430	35
2574.756	2574.936	2575.510	2575.698	2576.267	40
2576.473	2577.020	2577.241	2577.758	2578.013	45
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2580.764	2580.861				55

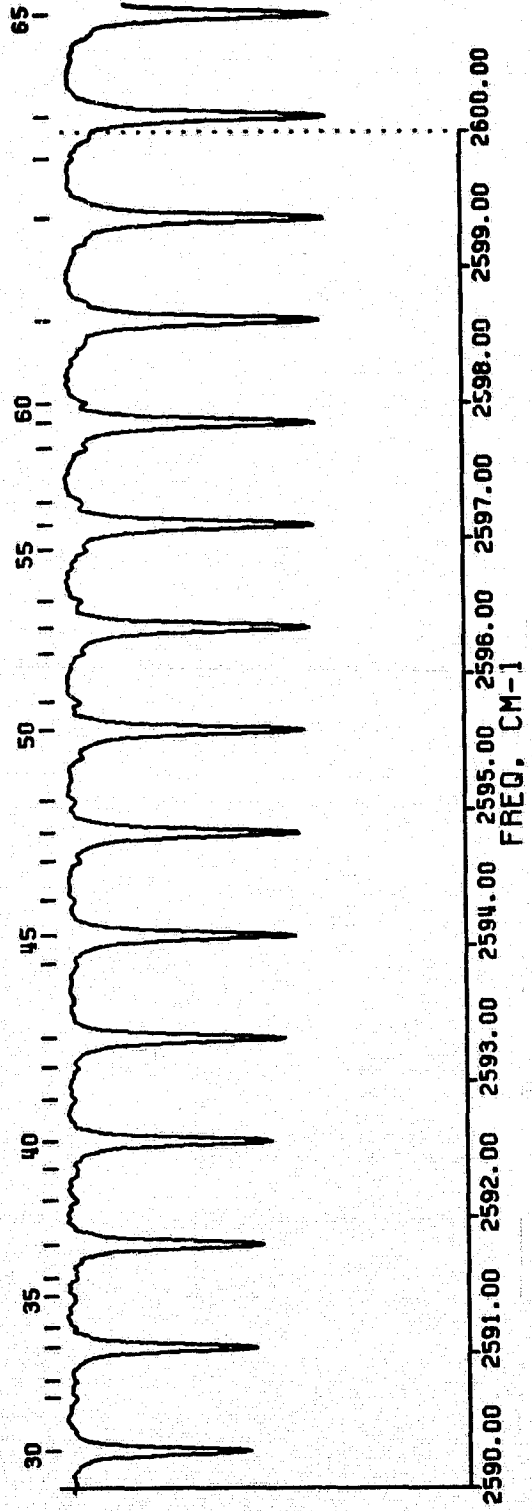
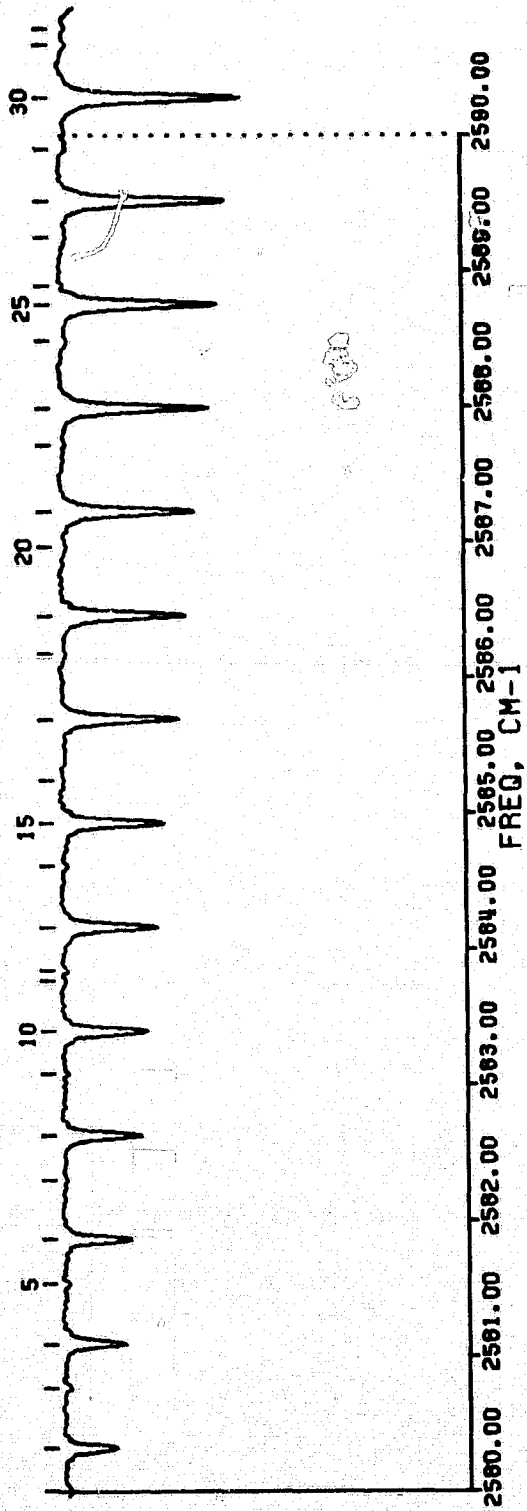


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2580.008	2580.325	2580.764	2581.090	2581.536	5
2581.863	2582.295	2582.626	2583.079	2583.397	10
2583.767	2583.844	2584.161	2584.612	2584.928	15
2585.247	2585.695	2586.181	2586.458	2586.964	20
2587.226	2587.719	2587.987	2588.484	2588.750	25
2588.893	2589.248	2589.515	2589.902	2590.275	30
2590.669	2590.791	2591.035	2591.181	2591.418	35
2591.553	2591.796	2592.121	2592.354	2592.558	40
2592.868	2593.101	2593.317	2593.863	2594.074	45
2594.335	2594.625	2594.830	2595.068	2595.587	50
2595.795	2596.156	2596.343	2596.541	2596.915	55
2597.099	2597.265	2597.366	2597.853	2597.995	60
2598.608	2599.361	2599.805	2600.113	2600.864	65

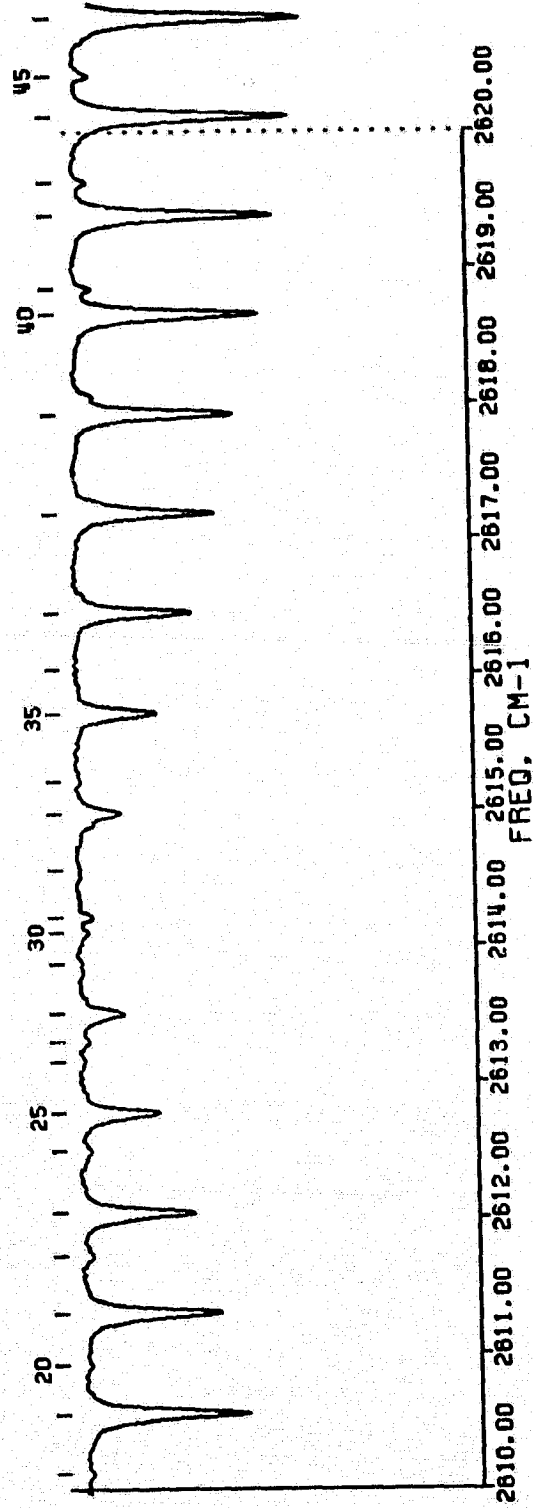
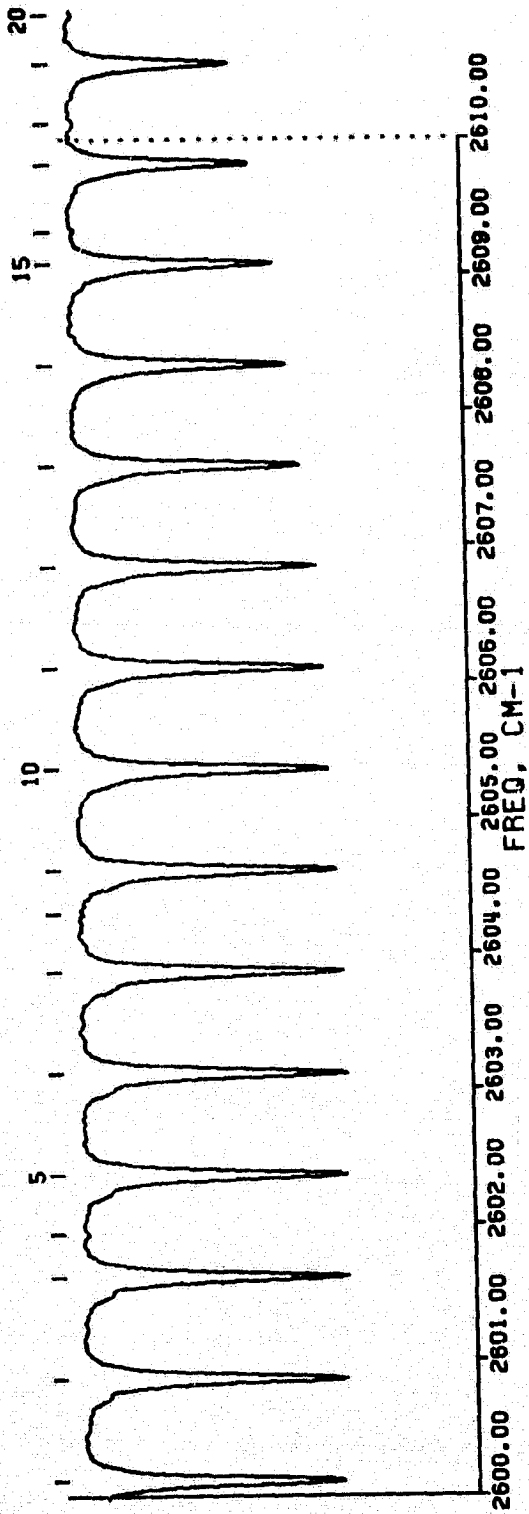
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2600.113	2600.864	2601.615	2601.934	2602.365	5
2603.115	2603.865	2604.292	2604.613	2605.357	10
2606.102	2606.849	2607.593	2608.334	2609.078	15
2609.322	2609.819	2610.118	2610.558	2610.916	20
2611.300	2611.721	2612.036	2612.495	2612.776	25
2613.150	2613.302	2613.506	2613.872	2614.103	30
2614.214	2614.565	2614.978	2615.215	2615.715	35
2616.043	2616.457	2617.187	2617.918	2618.651	40
2618.841	2619.382	2619.626	2620.110	2620.412	45
2620.837					50

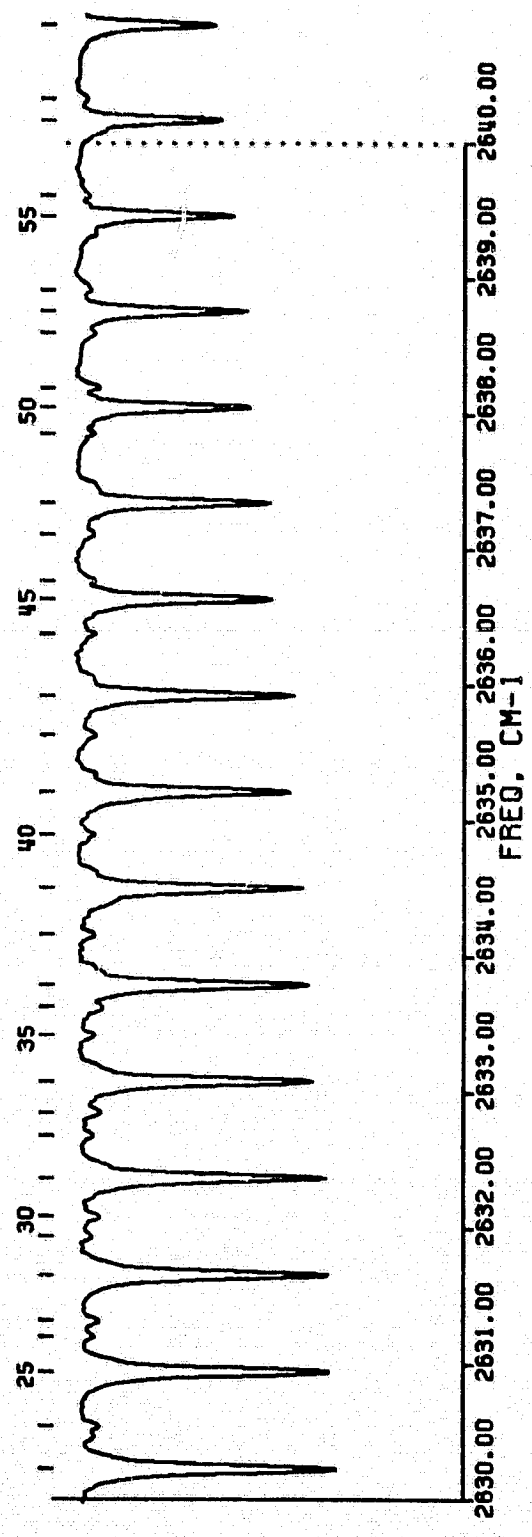
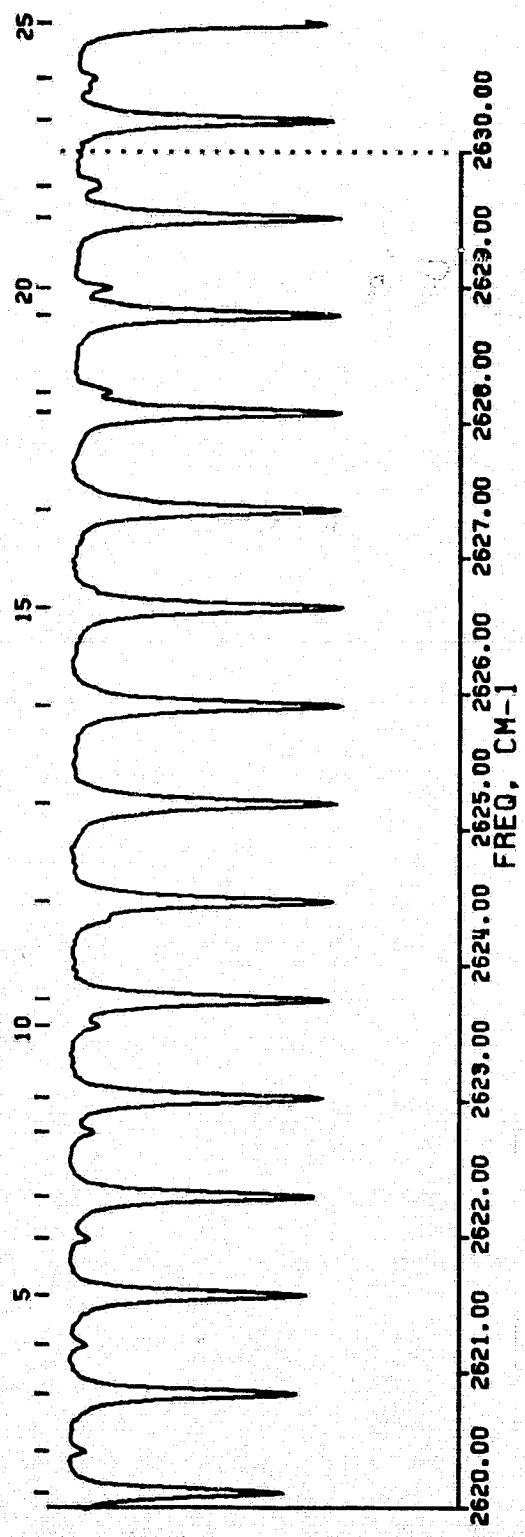
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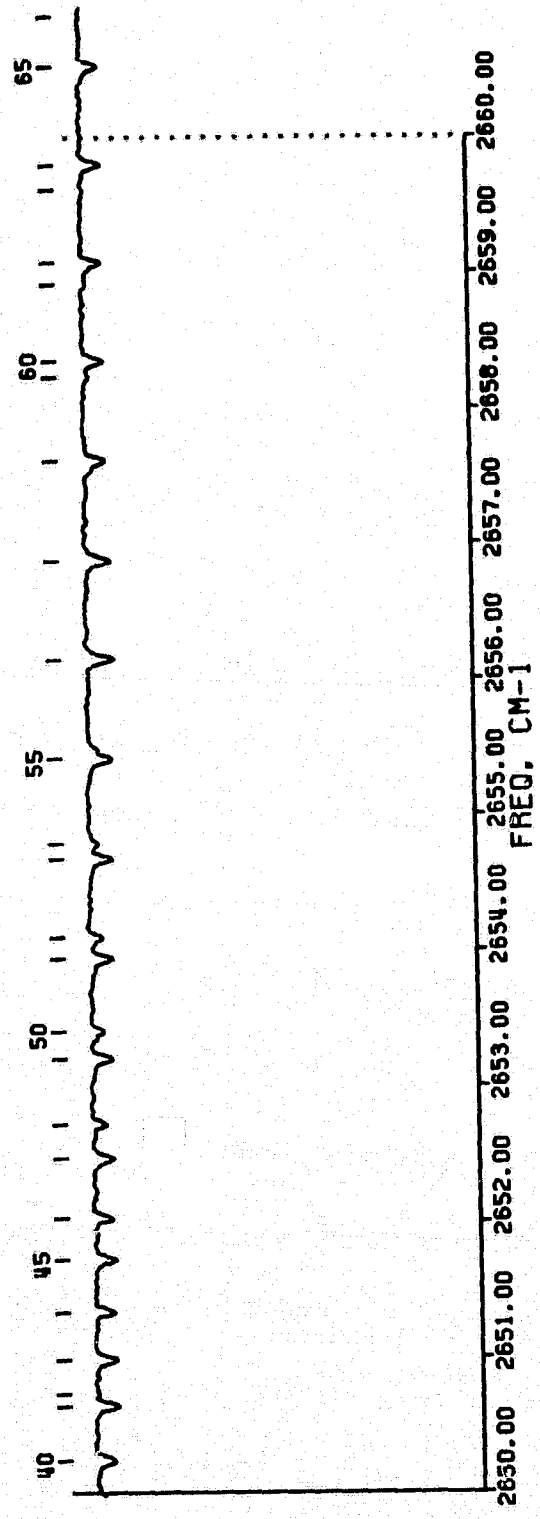
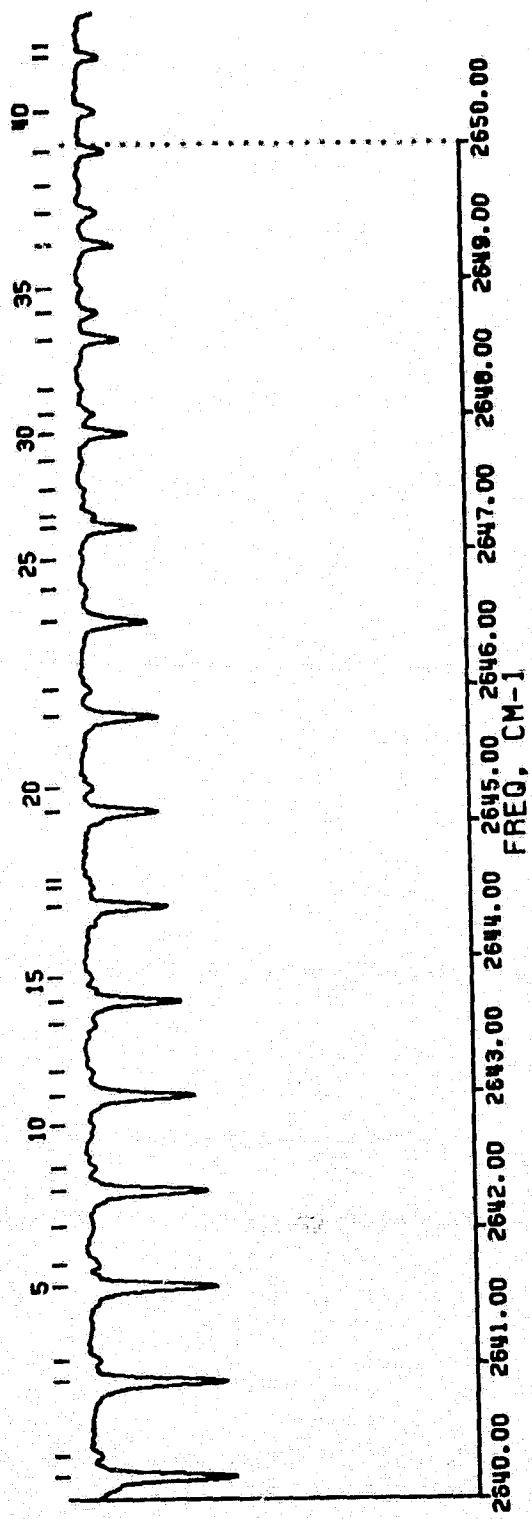
2620.110	2620.413	2620.837	2621.197	2621.565	5
2621.981	2622.292	2622.764	2623.019	2623.550	10
2623.744	2624.468	2625.191	2625.911	2626.634	15
2627.352	2628.071	2628.221	2628.790	2628.992	20
2629.508	2629.741	2630.226	2630.540	2630.940	25
2631.200	2631.316	2631.655	2631.938	2632.086	30
2632.370	2632.685	2632.855	2633.083	2633.425	35
2633.634	2633.793	2634.165	2634.508	2634.901	40
2635.215	2635.638	2635.926	2636.380	2636.635	45
2636.772	2637.113	2637.343	2637.857	2638.050	50
2638.195	2638.596	2638.758	2638.914	2639.460	55
2639.611	2640.169	2640.326	2640.870		60

200



2640.169	2640.326	2640.870	2641.027	2641.571	5
2641.730	2642.014	2642.279	2642.446	2642.760	10
2642.978	2643.159	2643.509	2643.676	2643.854	15
2644.376	2644.518	2644.570	2645.079	2645.248	20
2645.776	2645.971	2646.475	2646.716	2646.935	25
2647.169	2647.256	2647.450	2647.666	2647.865	30
2648.009	2648.194	2648.559	2648.758	2648.933	35
2649.253	2649.495	2649.700	2649.948	2650.240	40
2650.641	2650.729	2650.983	2651.335	2651.722	45
2652.025	2652.469	2652.718	2653.203	2653.406	50
2653.943	2654.097	2654.675	2654.790	2655.418	55
2656.150	2656.873	2657.614	2658.229	2658.344	60
2658.911	2659.071	2659.612	2659.796	2660.523	65
2660.893					70

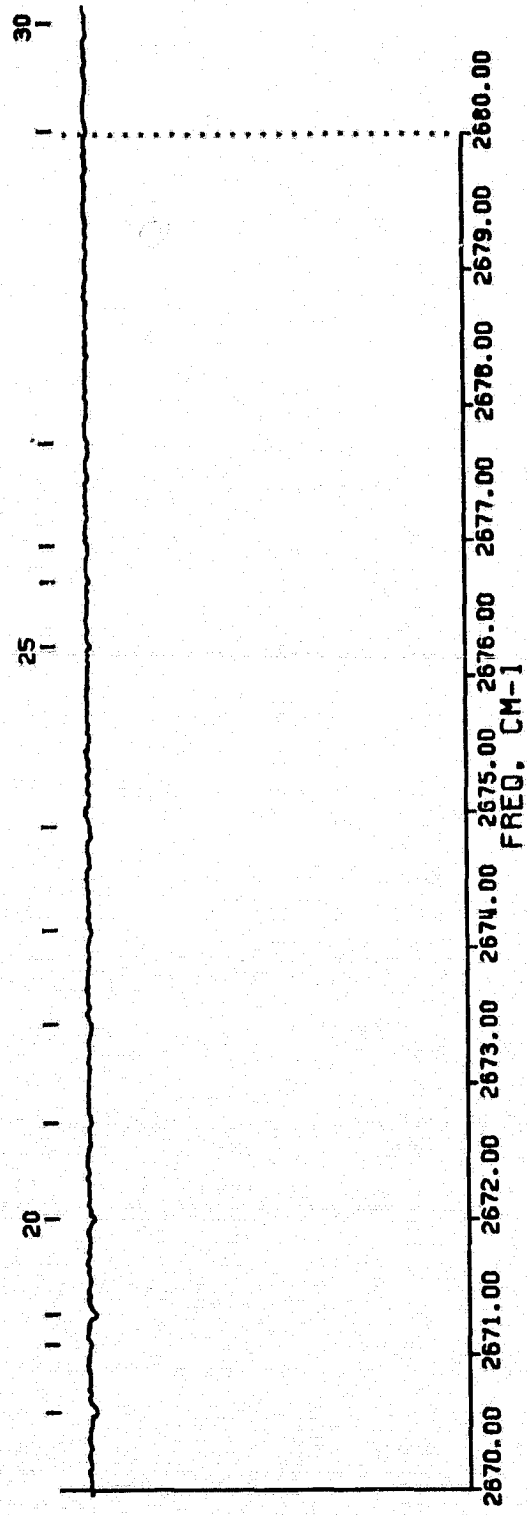
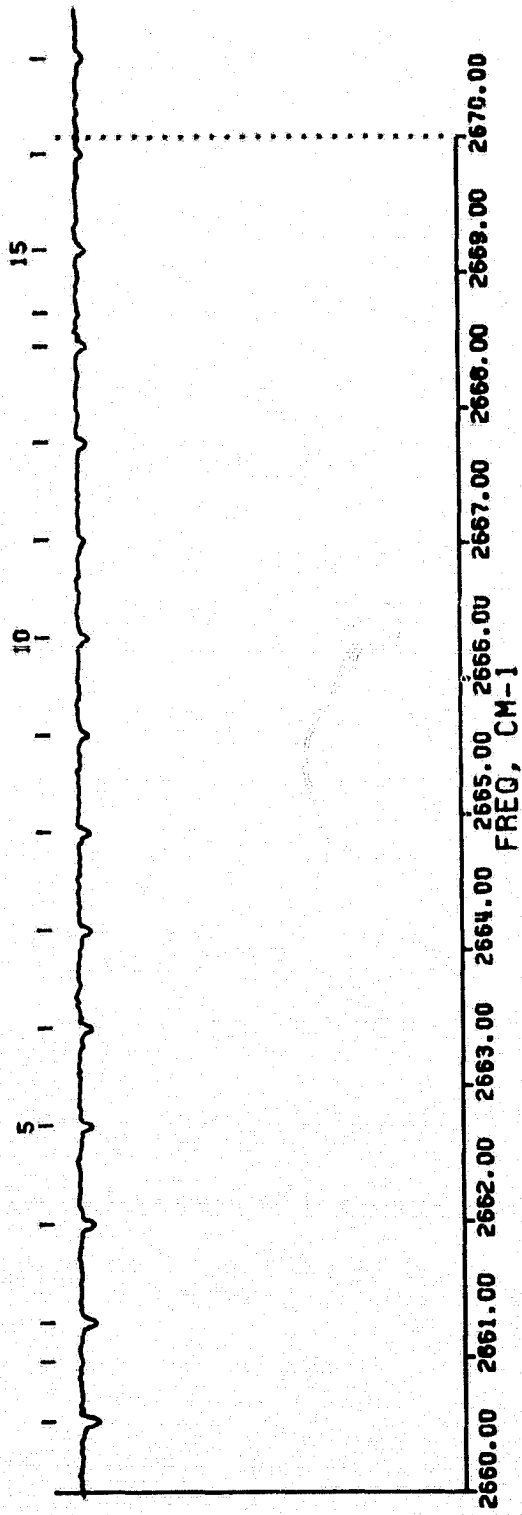
202



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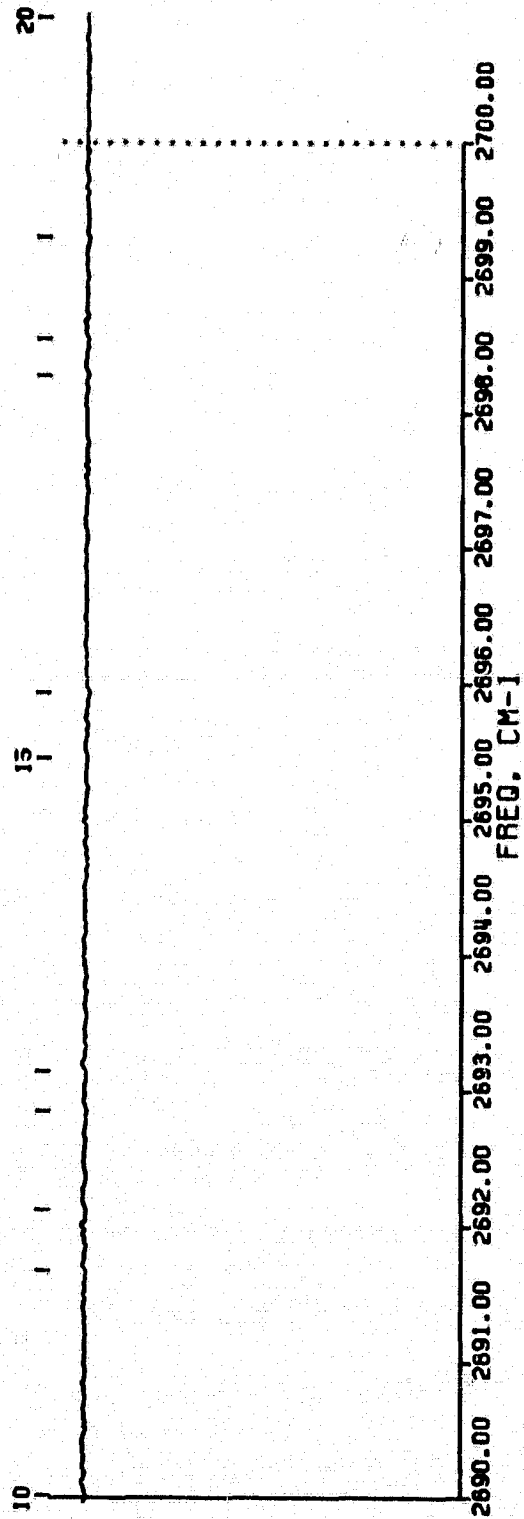
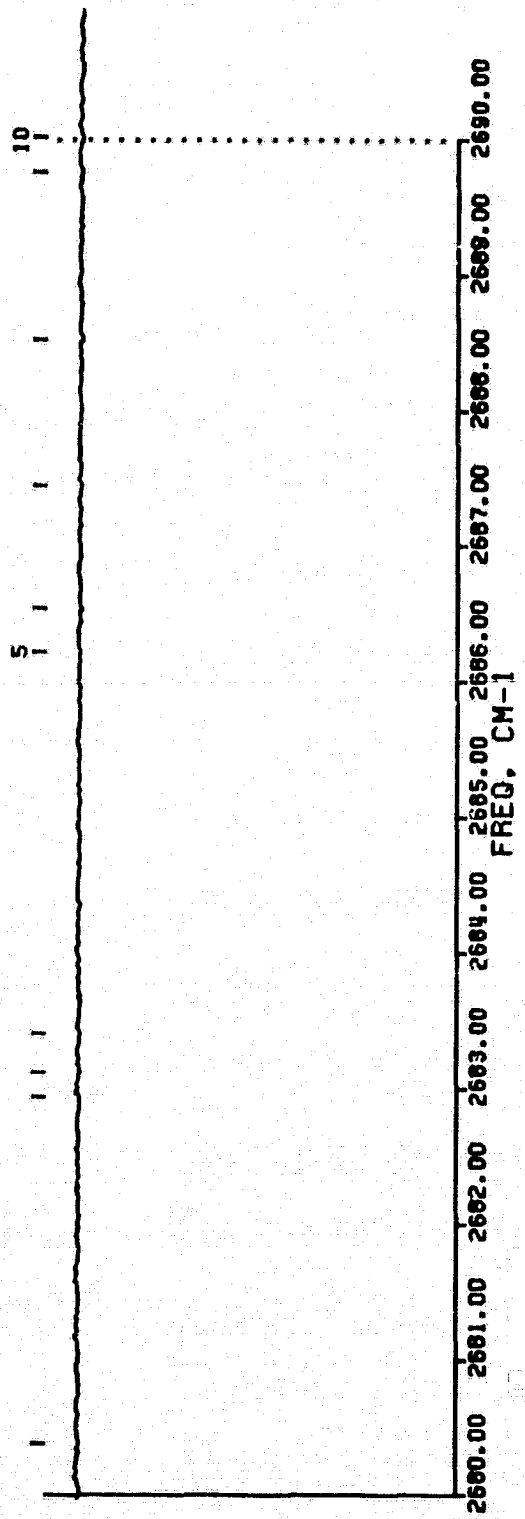
2660.523	2660.960	2661.251	2661.978	2662.701	5
2663.422	2664.143	2664.865	2665.582	2666.302	10
2667.023	2667.745	2668.450	2668.696	2669.164	15
2669.875	2670.573	2671.070	2671.298	2672.003	20
2672.710	2673.440	2674.133	2674.892	2676.222	25
2676.703	2676.968	2677.725	2680.026	2680.823	30

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2680.376	2682.935	2683.118	2683.405	2686.220	5
2686.537	2687.444	2688.519	2689.763	2690.018	10
2691.673	2692.125	2692.851	2693.148	2695.455	15
2695.940	2698.278	2698.546	2699.298	2700.923	20

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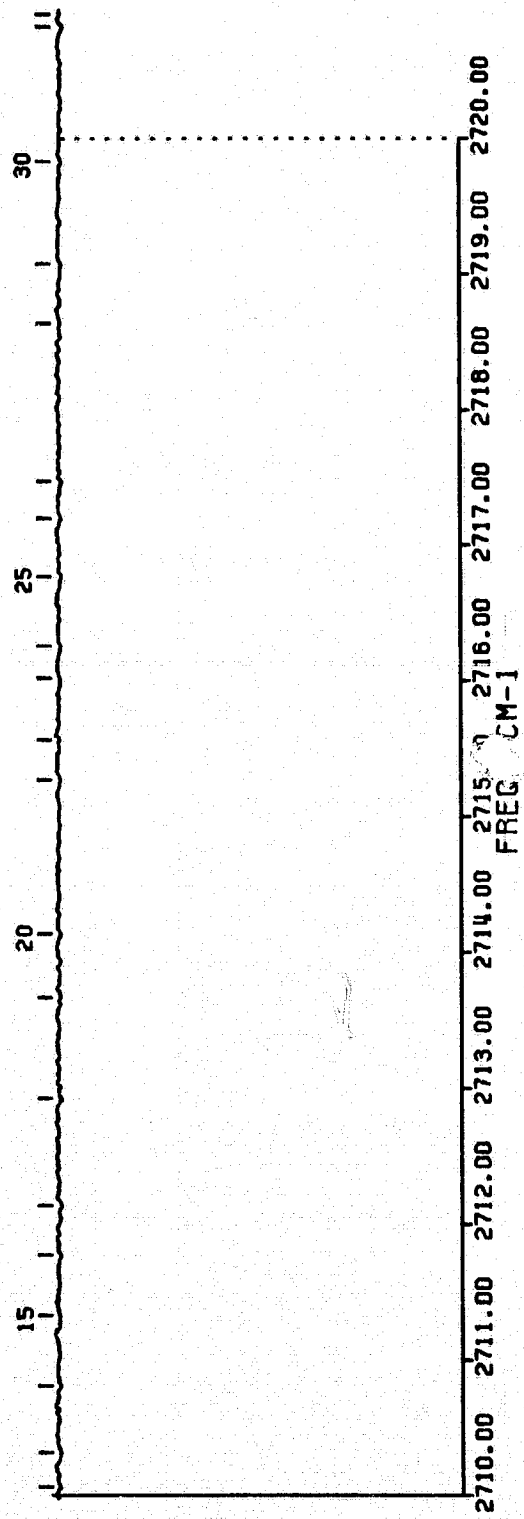
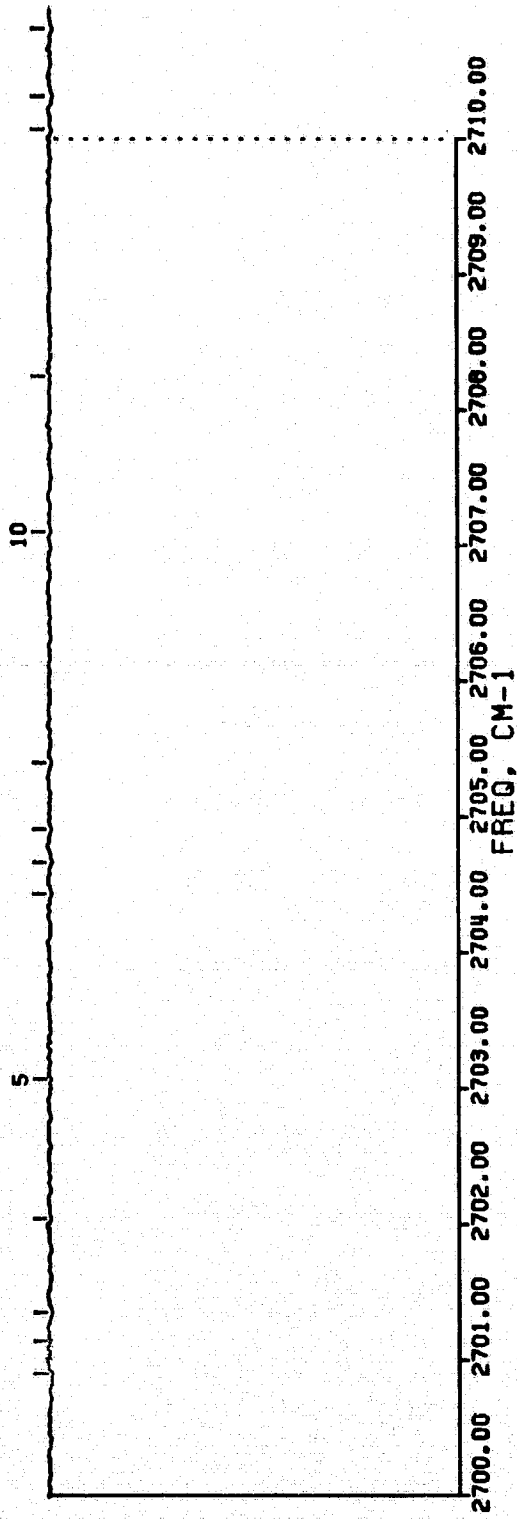


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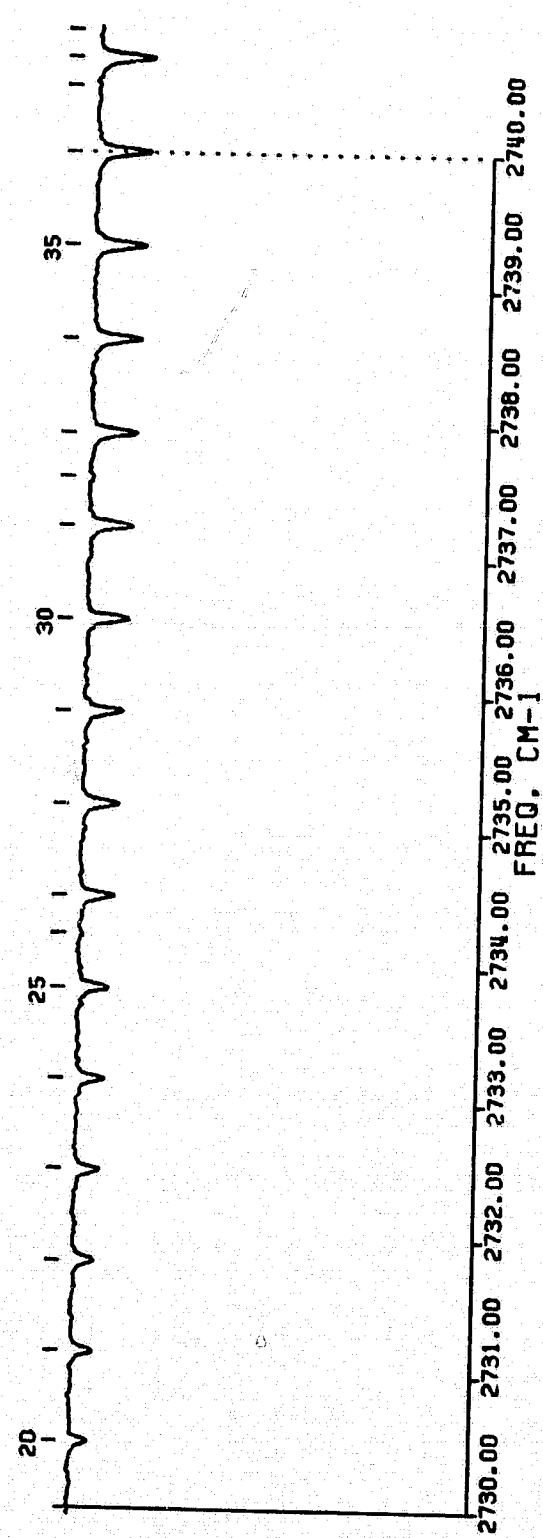
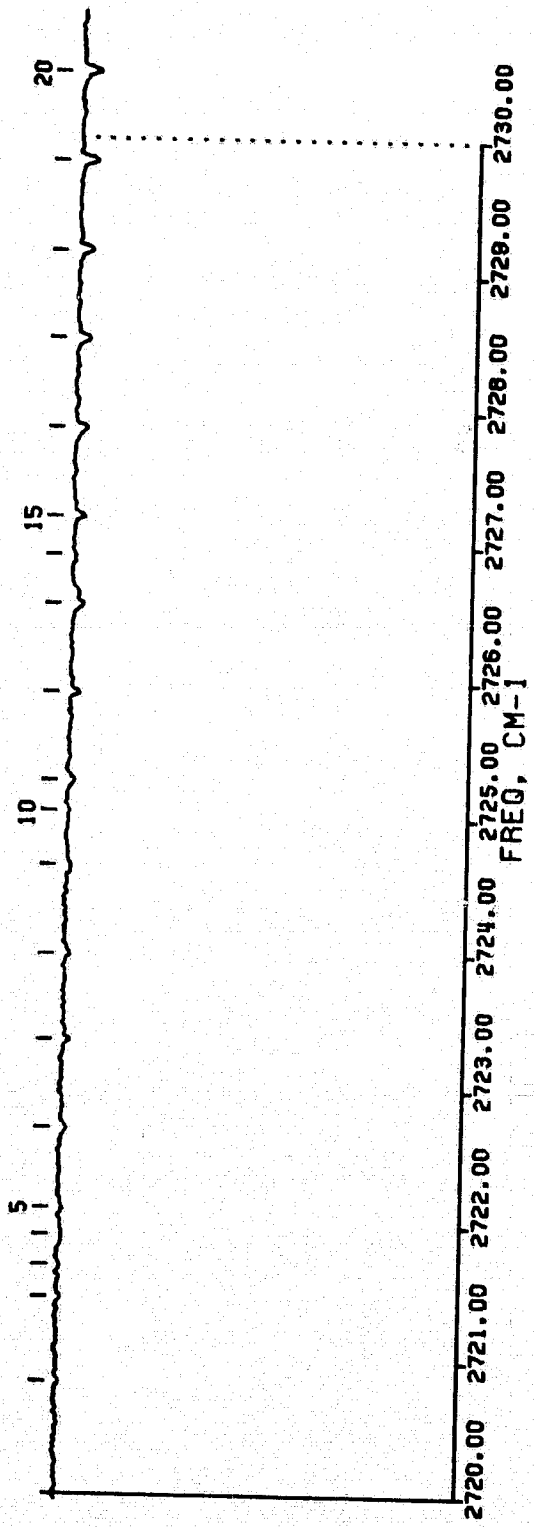
2700.696	2701.137	2701.346	2702.043	2703.066	5
2704.433	2704.664	2704.906	2705.397	2707.103	10
2708.250	2710.067	2710.315	2710.809	2711.323	15
2711.770	2712.135	2712.931	2713.673	2714.137	20
2715.270	2715.570	2716.019	2716.261	2716.773	25
2717.197	2717.472	2718.634	2719.071	2719.831	30
2720.826	2720.918				35

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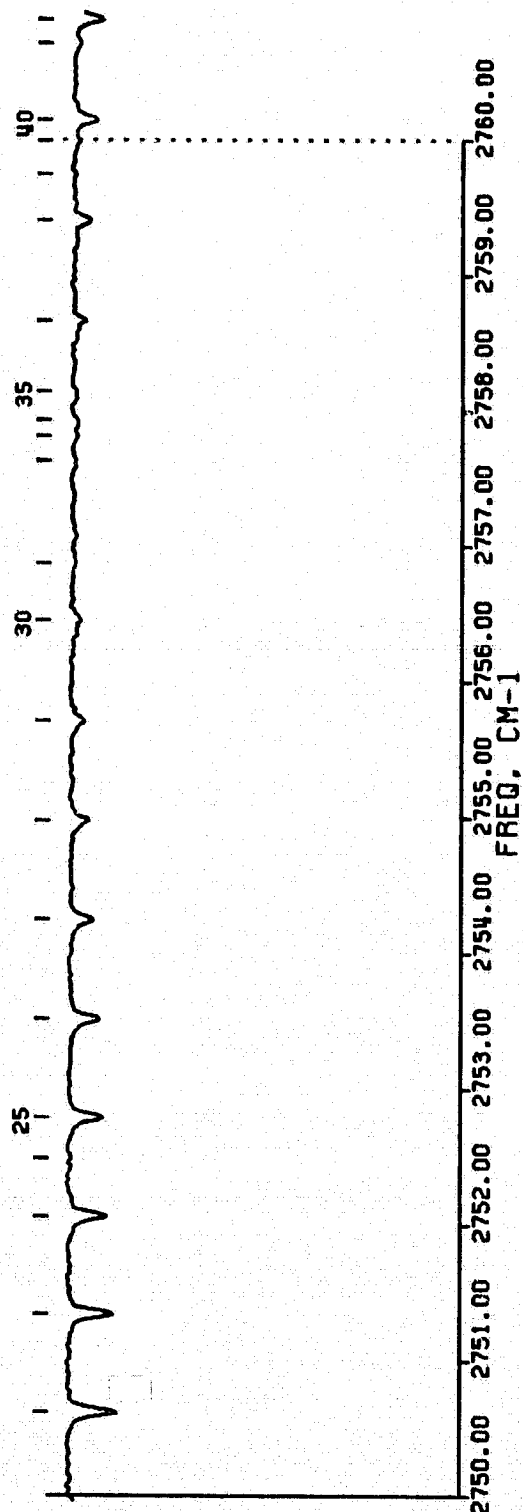
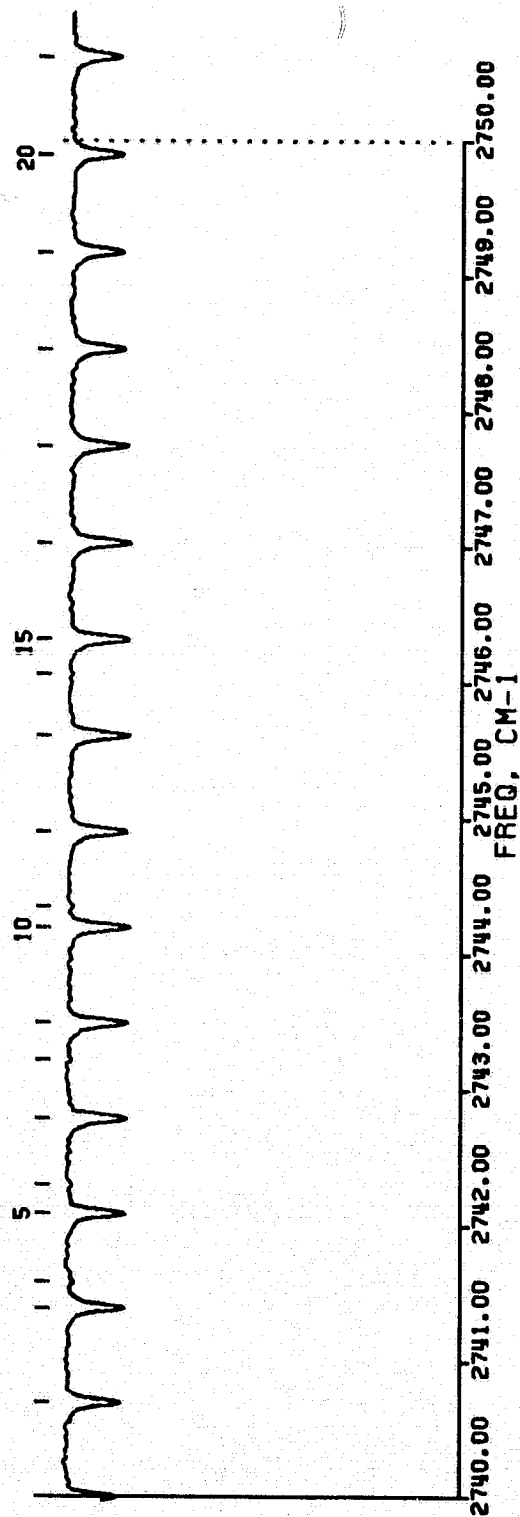


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2720.829	2721.448	2721.687	2721.913	2722.108	5
2722.697	2723.348	2723.980	2724.635	2725.033	10
2725.260	2725.908	2726.562	2726.922	2727.203	15
2727.861	2728.521	2729.168	2729.830	2730.490	20
2731.154	2731.823	2732.498	2733.165	2733.836	25
2734.235	2734.517	2735.190	2735.875	2736.554	30
2737.238	2737.601	2737.926	2738.616	2739.309	35
2740.001	2740.489	2740.695	2740.903		40



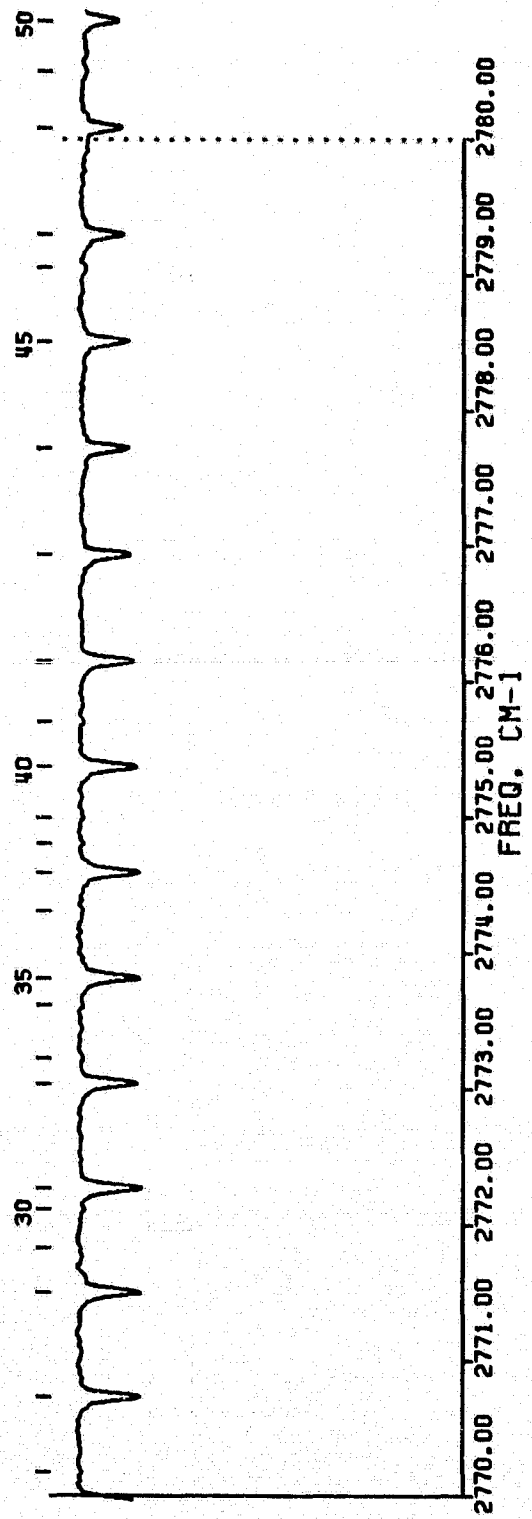
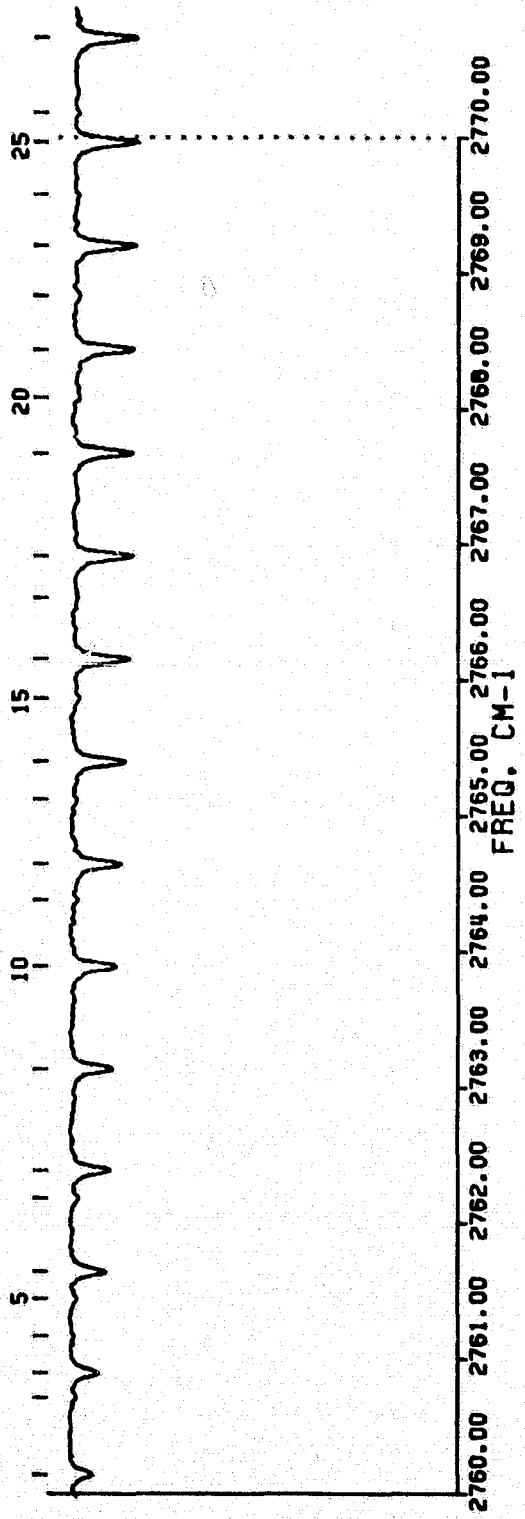
2740.000	2740.693	2741.390	2741.581	2742.086	5
2742.298	2742.786	2743.223	2743.493	2744.195	10
2744.351	2744.900	2745.609	2746.066	2746.320	15
2747.030	2747.746	2748.461	2749.175	2749.895	20
2750.616	2751.339	2752.062	2752.484	2752.788	25
2753.515	2754.248	2754.981	2755.713	2756.455	30
2756.880	2757.636	2757.816	2757.930	2758.144	35
2758.661	2759.405	2759.745	2759.989	2760.144	40
2760.711	2760.890				45



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2760.144	2760.711	2760.888	2761.163	2761.439	5
2761.637	2762.181	2762.385	2763.135	2763.888	10
2764.379	2764.640	2765.116	2765.396	2765.864	15
2766.156	2766.606	2766.912	2767.670	2768.078	20
2768.432	2768.827	2769.198	2769.581	2769.961	25
2770.178	2770.731	2771.498	2771.826	2772.116	30
2772.271	2773.041	2773.229	2773.619	2773.817	35
2774.315	2774.596	2774.812	2775.002	2775.375	40
2775.704	2776.153	2776.936	2777.723	2778.510	45
2779.056	2779.295	2780.083	2780.503	2780.873	50

214

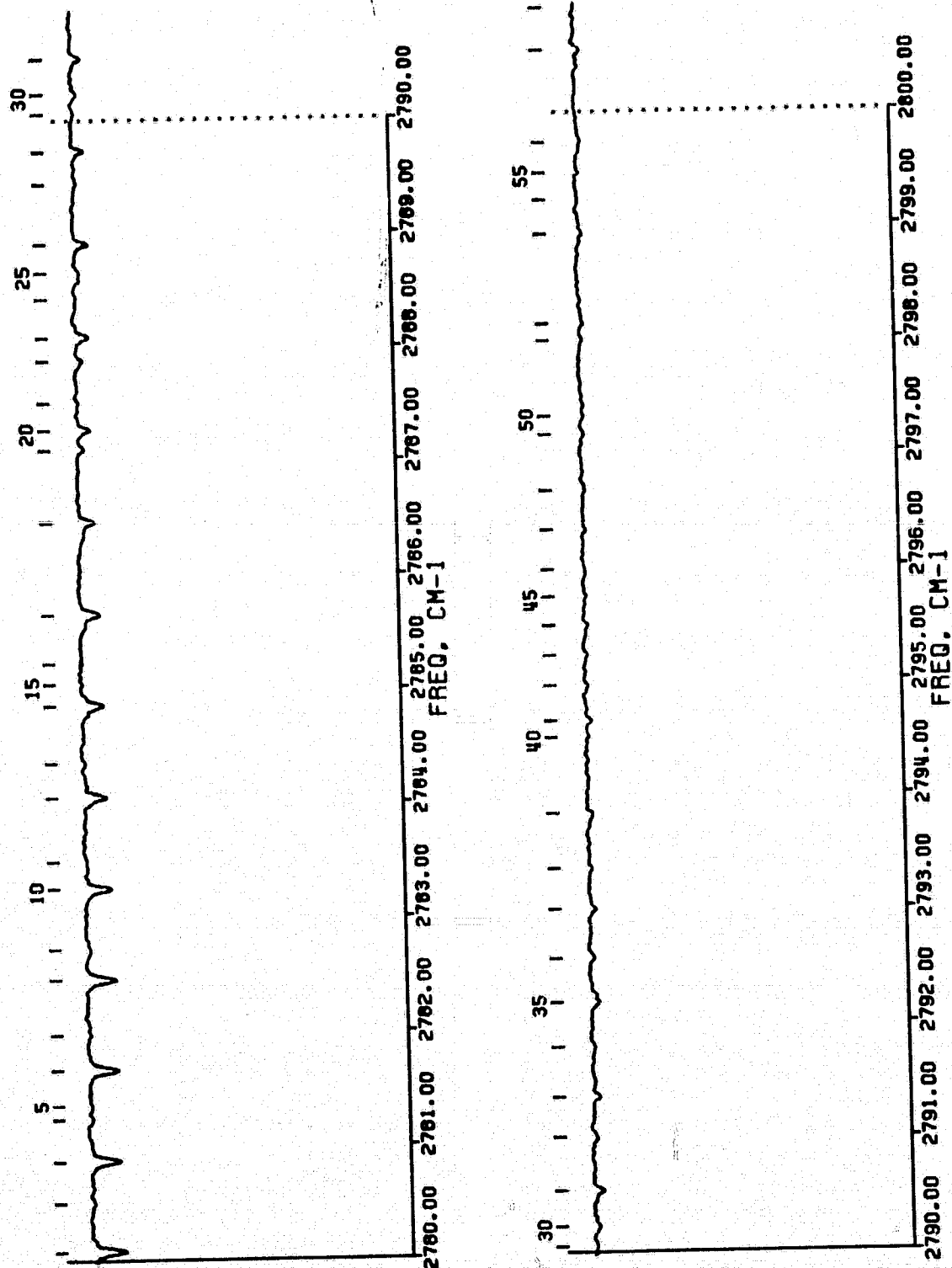


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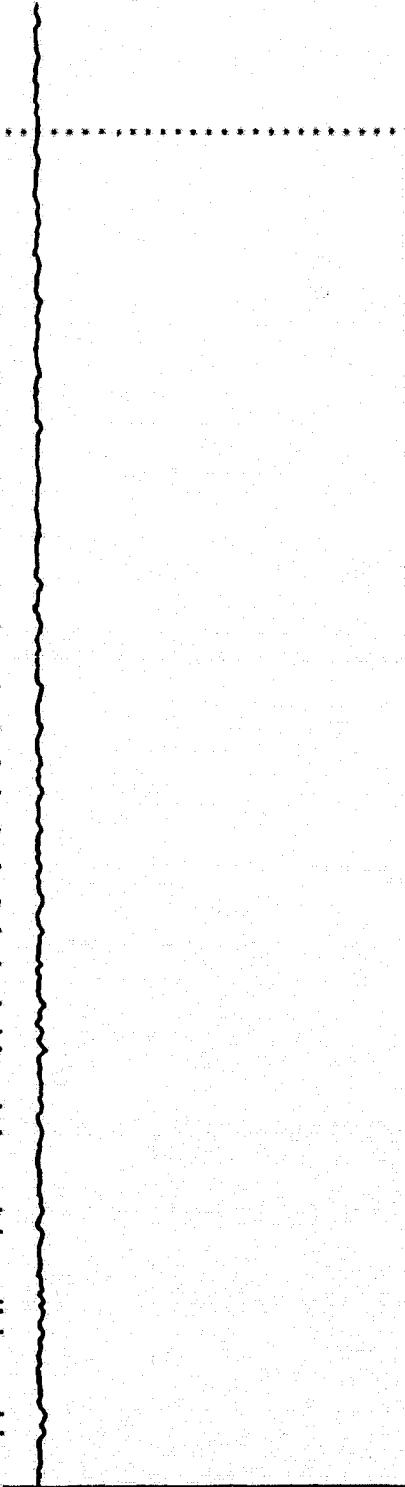
2780.082	2780.506	2780.873	2781.242	2781.363	5
2781.675	2781.981	2782.463	2782.731	2783.261	10
2783.503	2784.062	2784.360	2784.869	2785.056	15
2785.239	2785.666	2786.472	2787.109	2787.283	20
2787.518	2787.888	2788.097	2788.431	2788.659	25
2788.912	2789.441	2789.726	2790.055	2790.228	30
2790.539	2791.006	2791.360	2791.802	2792.195	35
2792.580	2793.010	2793.371	2793.850	2794.519	40
2794.663	2794.970	2795.241	2795.498	2795.752	45
2795.987	2796.337	2796.678	2797.170	2797.335	50
2798.000	2798.145	2798.925	2799.231	2799.469	55
2799.732	2800.541	2800.916			60

572



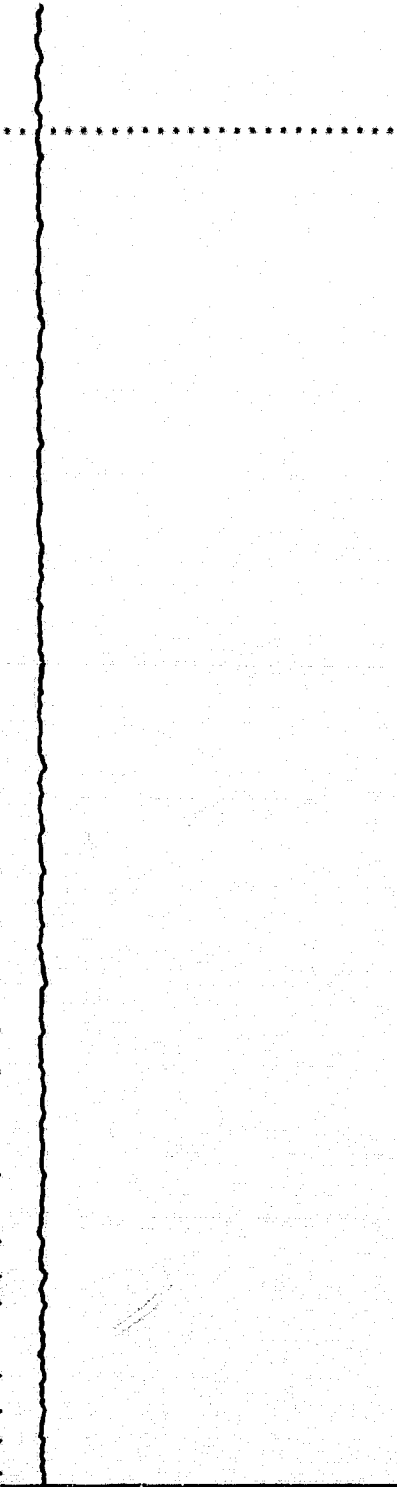
2800.401	2800.538	2801.143	2801.296	2801.367	5
2801.883	2802.046	2802.611	2802.806	2803.226	10
2803.363	2803.565	2803.859	2804.101	2804.323	15
2804.581	2804.852	2805.125	2805.341	2805.605	20
2805.905	2806.360	2806.663	2807.083	2807.435	25
2807.820	2808.213	2808.741	2809.011	2809.447	30
2809.792	2810.095	2810.338	2810.558	2810.817	35
2811.343	2811.548	2811.810	2812.298	2813.048	40
2813.362	2813.721	2814.142	2814.531	2815.100	45
2815.307	2816.121	2816.934	2817.696	2818.288	50
2818.564	2819.304	2819.804	2820.100	2820.548	55
2820.911					60

5 10 15 20 25 30 35



2800.00 2801.00 2802.00 2803.00 2804.00 2805.00 2806.00 2807.00 2808.00 2809.00 2810.00  
FREQ, CM-1

35 40 45 50 55

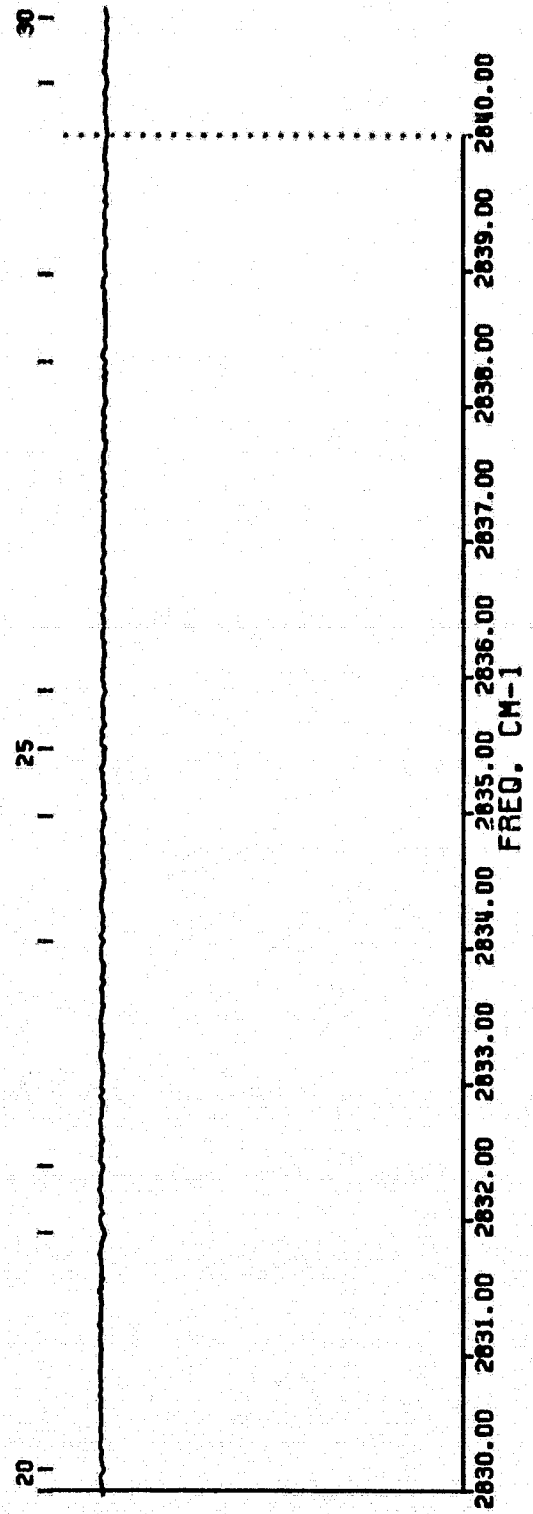
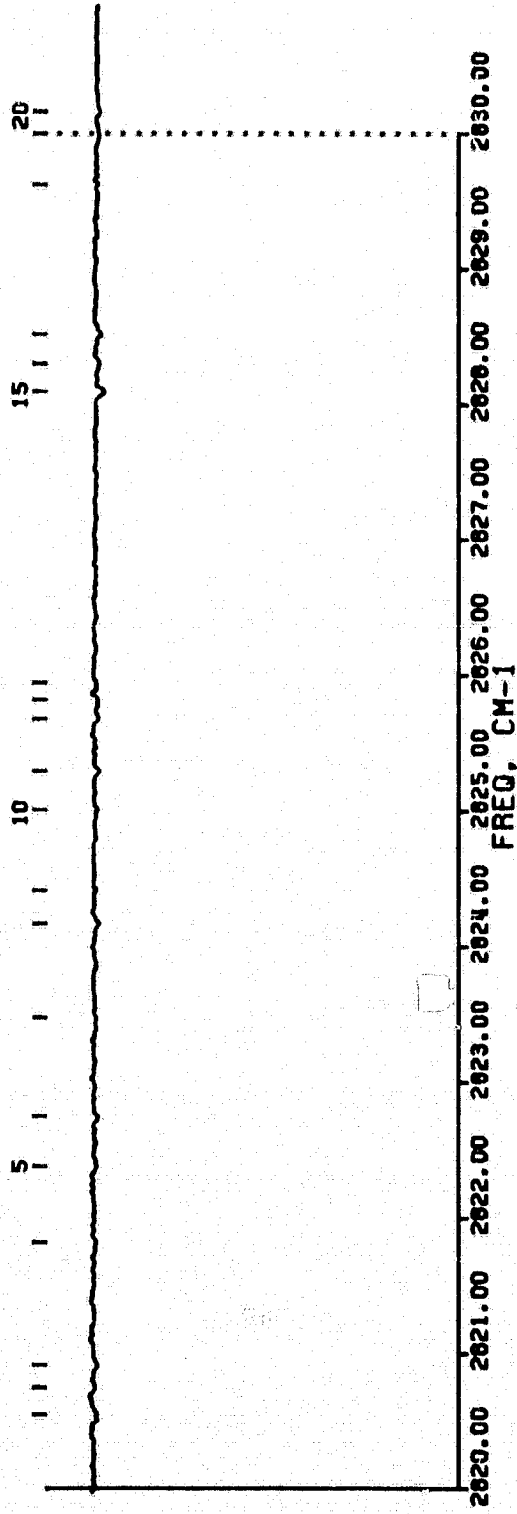


2810.00 2811.00 2812.00 2813.00 2814.00 2815.00 2816.00 2817.00 2818.00 2819.00 2820.00  
FREQ, CM-1

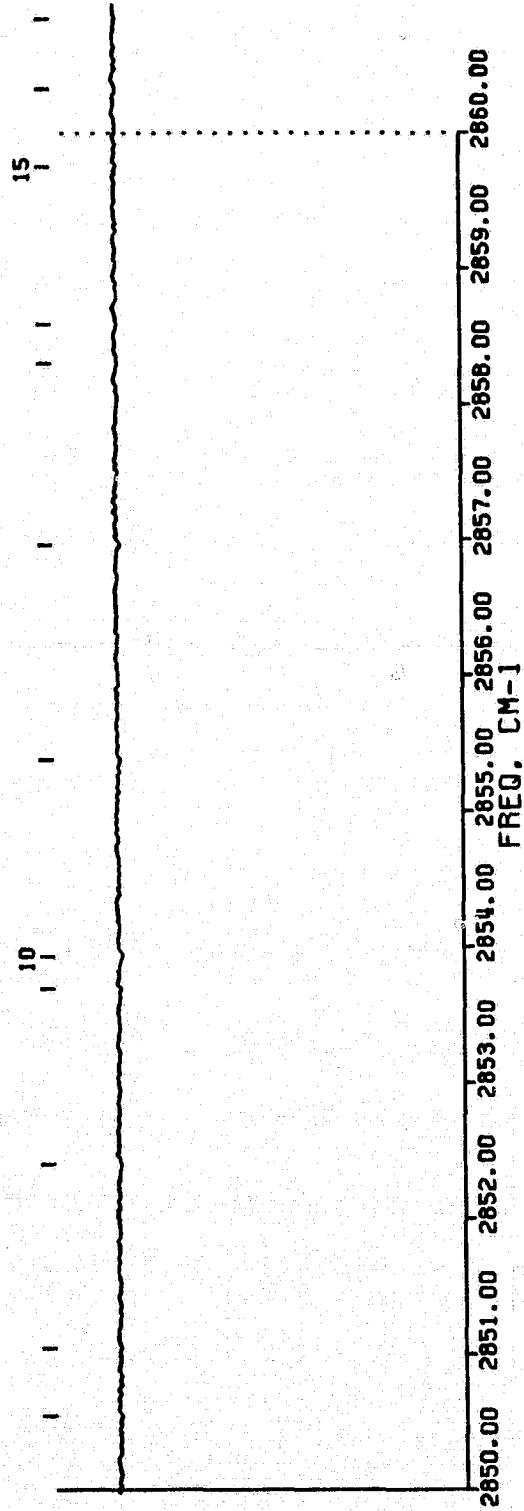
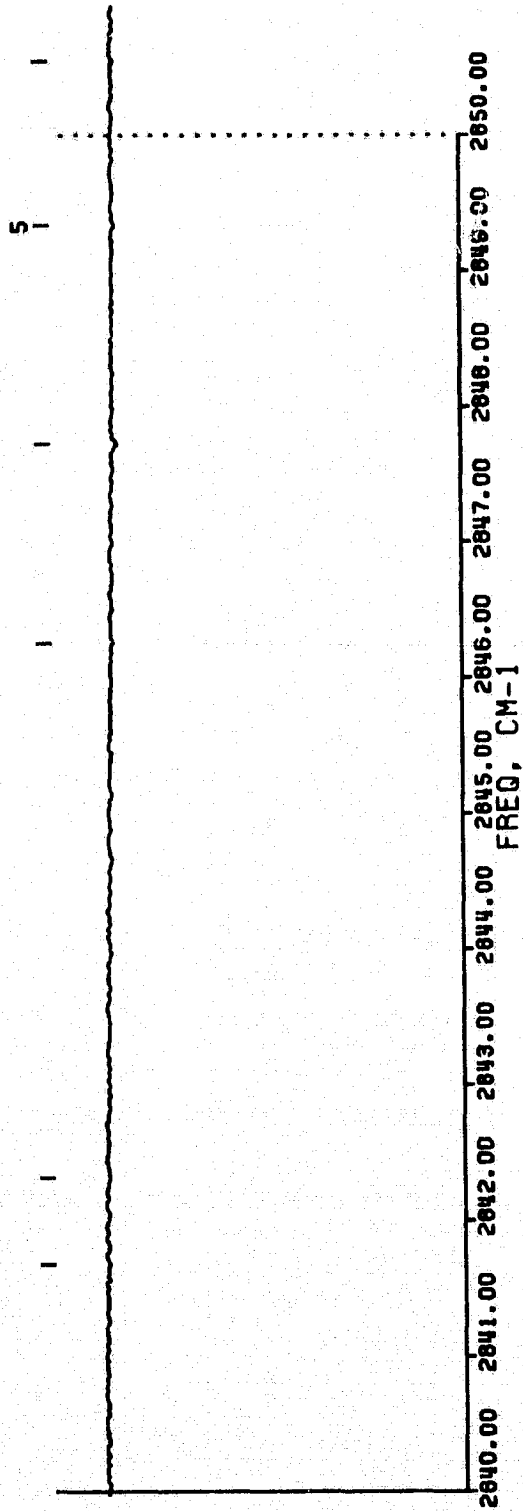
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2820.550	2820.745	2820.913	2821.815	2822.378	5
2822.746	2823.471	2824.166	2824.410	2825.010	10
2825.295	2825.681	2825.821	2825.944	2828.092	15
2828.296	2828.515	2829.621	2829.996	2830.159	20
2831.898	2832.391	2834.051	2834.970	2835.467	25
2835.891	2838.327	2838.970	2840.380	2840.863	30

2000



2841.675	2842.309	2846.256	2847.725	2849.331	5
2850.547	2851.046	2852.400	2853.695	2853.939	10
2855.384	2856.966	2858.306	2858.593	2859.756	15
2860.328	2860.844				20





2861.366	2862.136	2863.080	2863.391	2864.243	5
2864.450	2864.998	2865.810	2866.171	2867.133	10
2867.804	2868.083	2868.734	2869.578	2870.889	15
2871.206	2872.246	2872.469	2873.043	2873.736	20
2874.523	2874.743	2874.973	2875.168	2875.436	25
2876.216	2878.373	2880.956			30

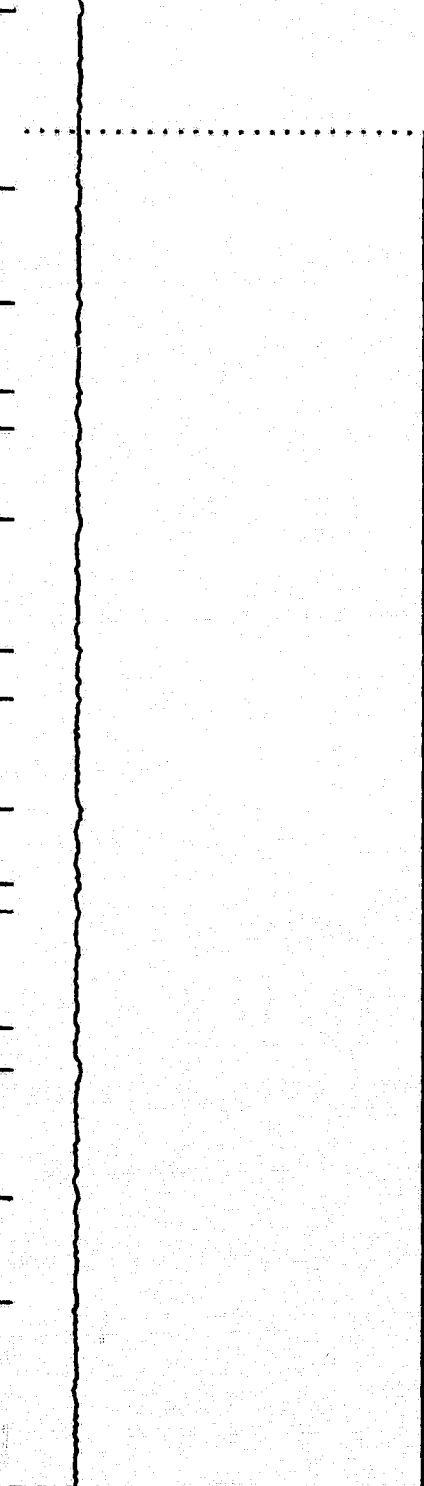
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*[Handwritten scribble]*

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10

5

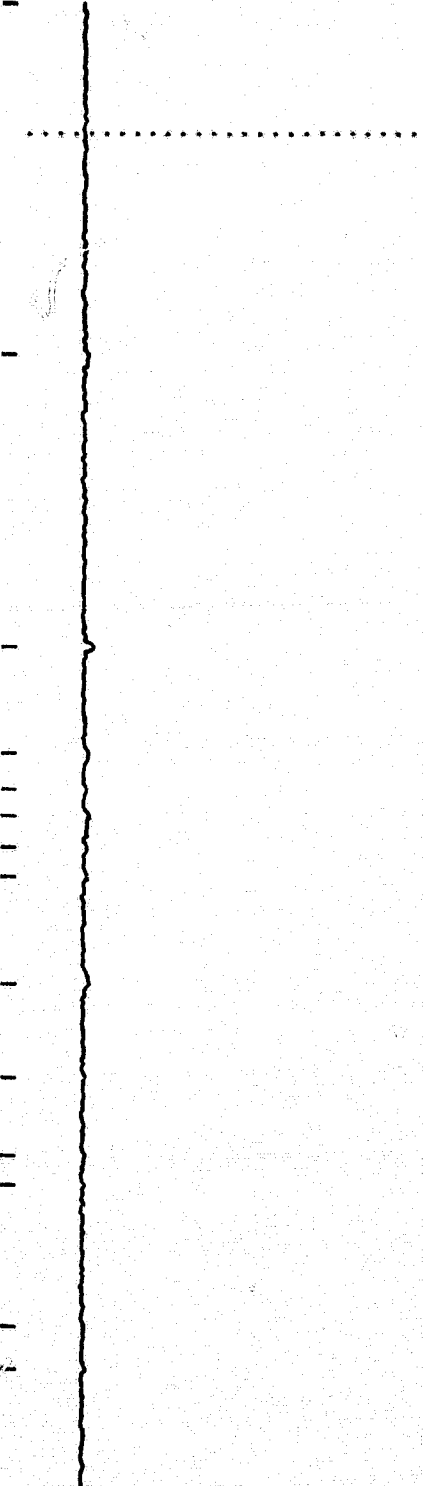


2860.00 2861.00 2862.00 2863.00 2864.00 2865.00 2866.00 2867.00 2868.00 2869.00 2870.00  
 FREQ, CM-1

15

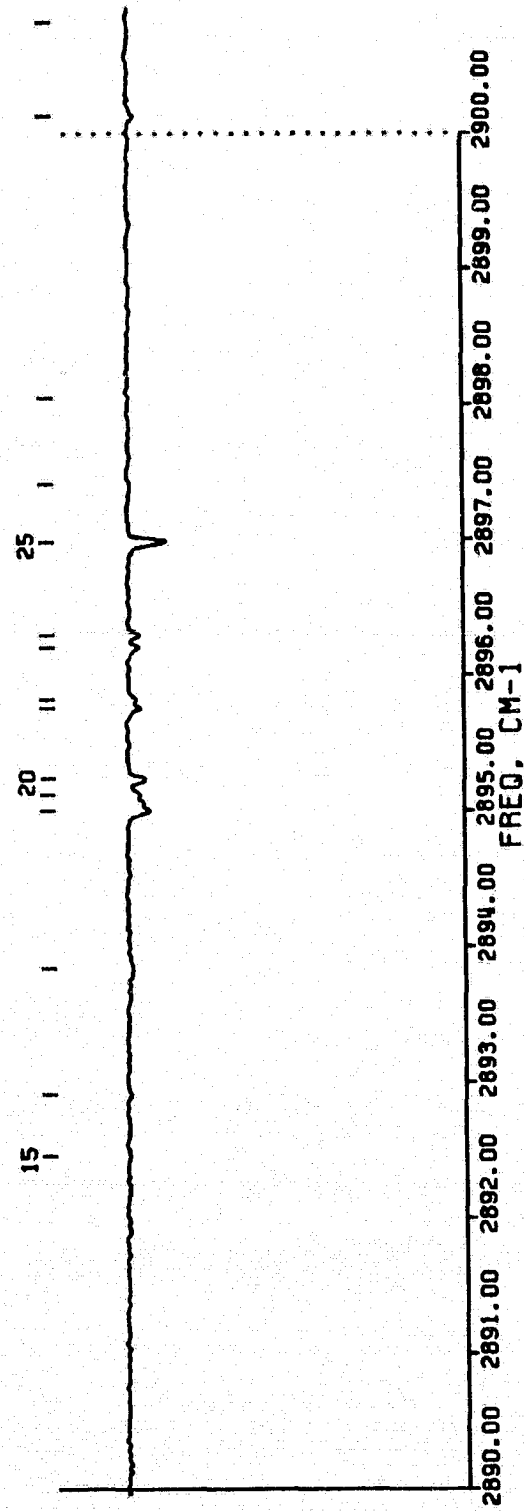
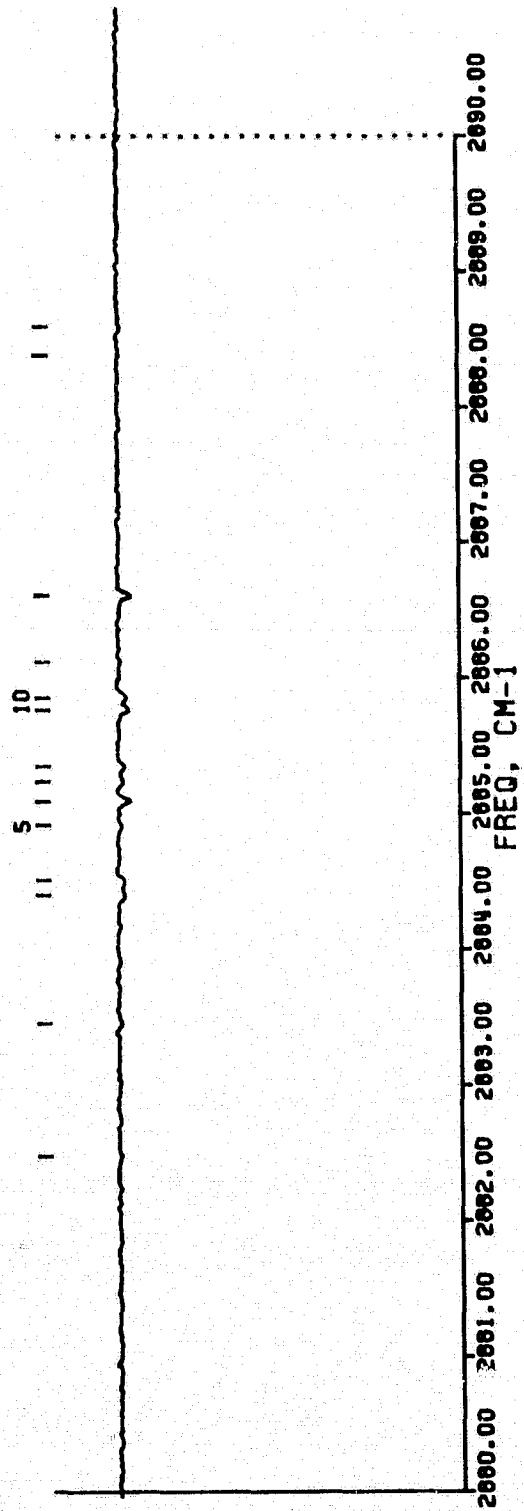
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25

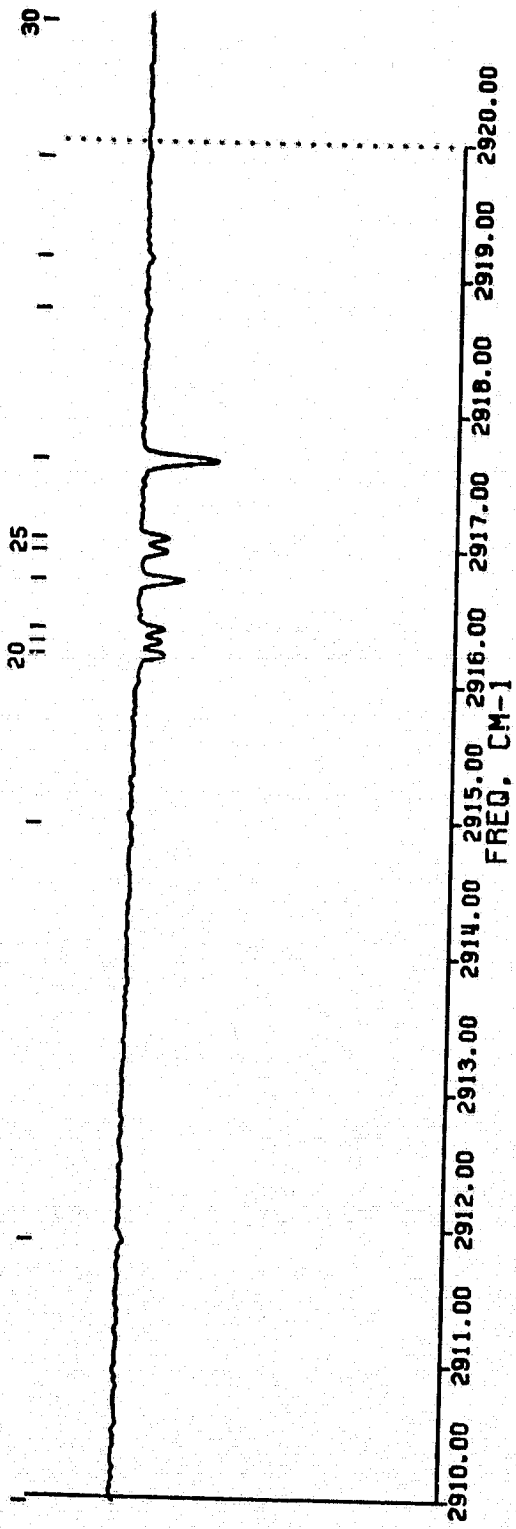
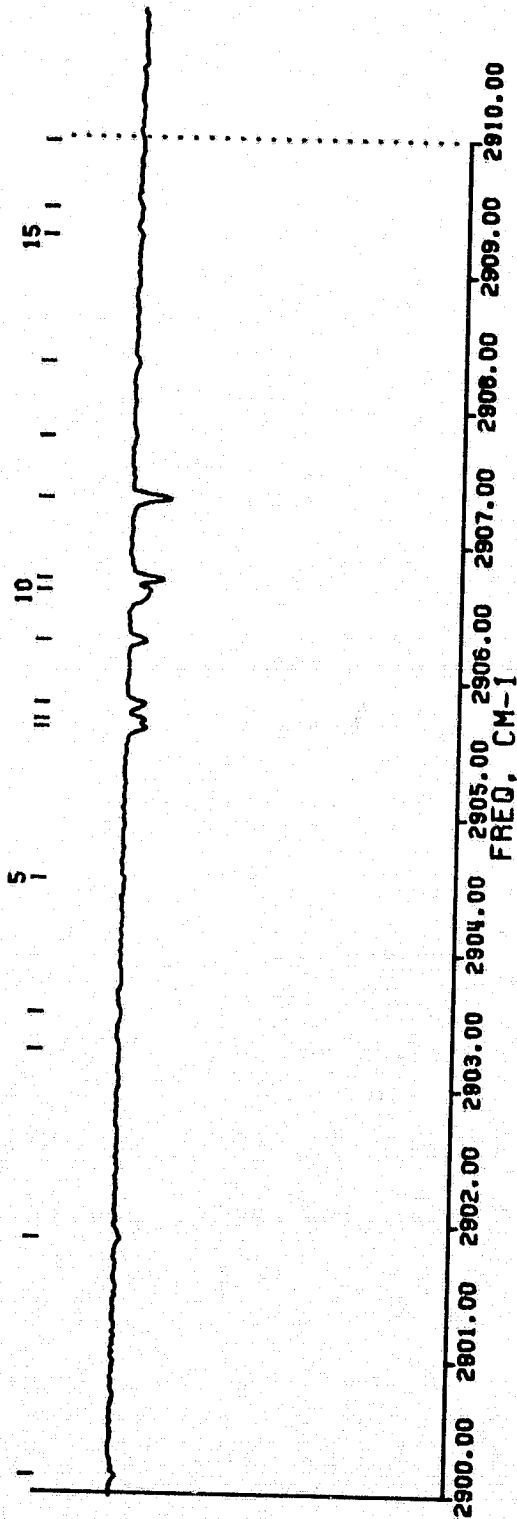


2870.00 2871.00 2872.00 2873.00 2874.00 2875.00 2876.00 2877.00 2878.00 2879.00 2880.00  
 FREQ, CM-1

2882.476	2883.456	2884.398	2884.509	2884.913	5
2885.095	2885.241	2885.350	2885.765	2885.856	10
2886.123	2886.608	2888.381	2888.588	2892.456	15
2892.913	2893.848	2895.006	2895.125	2895.242	20
2895.762	2895.823	2896.212	2896.303	2896.991	25
2897.418	2898.053	2900.128	2900.823		30

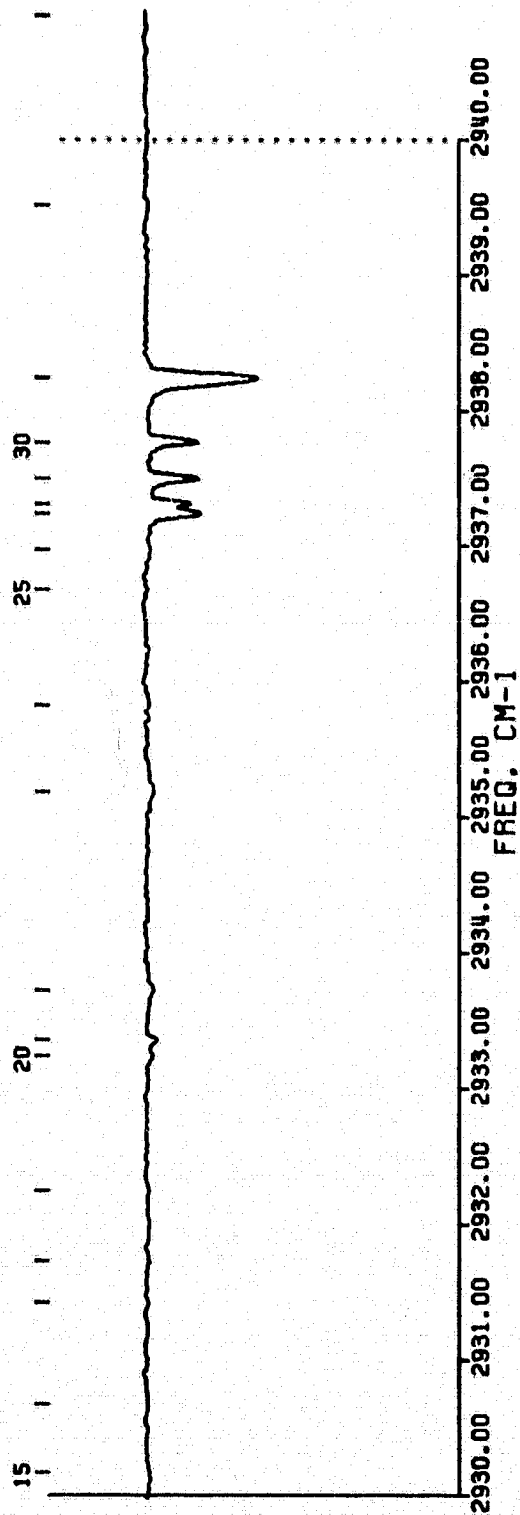
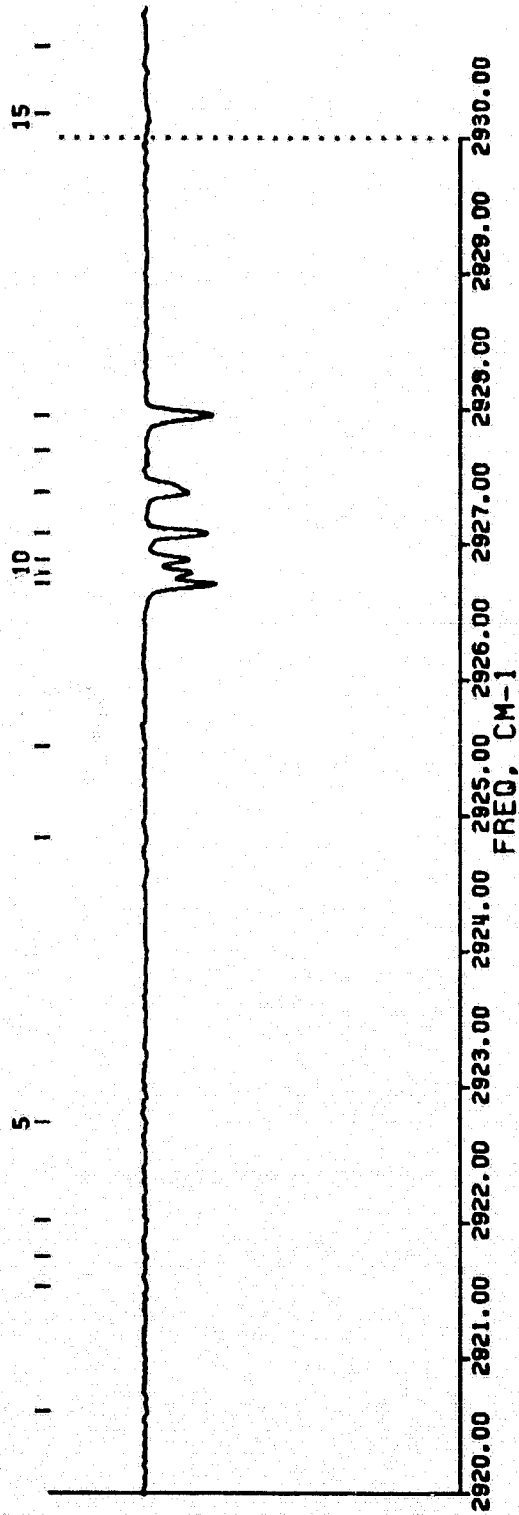


2900.128	2901.881	2903.264	2903.536	2904.523	5
2905.644	2905.701	2905.820	2906.284	2906.653	10
2906.735	2907.331	2907.786	2908.331	2909.267	15
2909.473	2909.961	2911.892	2914.955	2916.210	20
2916.305	2916.397	2916.760	2916.972	2917.067	25
2917.644	2918.750	2919.136	2919.870	2920.880	30



NO. 100  
 100  
 100

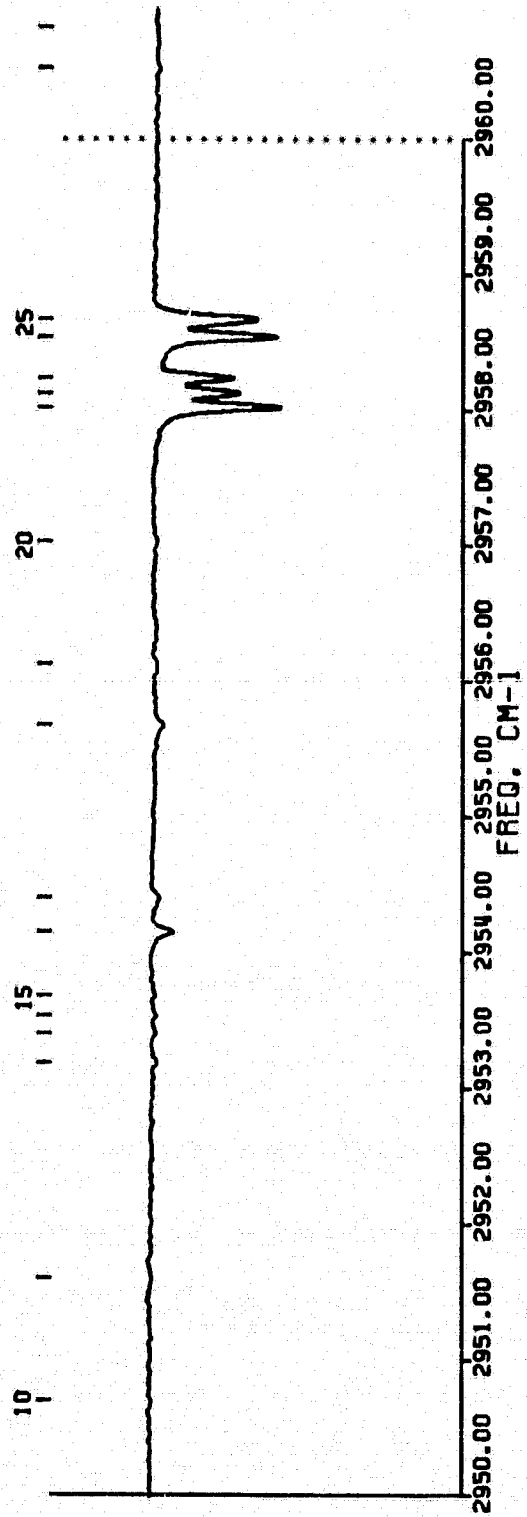
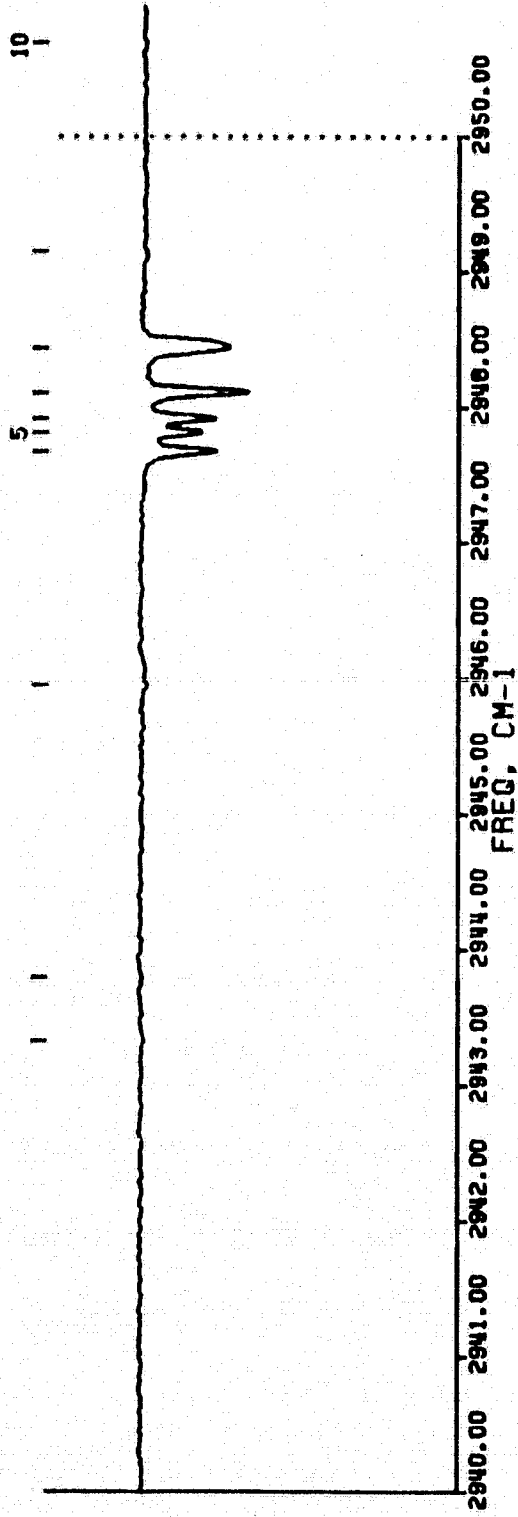
2920.603	2921.521	2921.746	2922.010	2922.731	5
2924.830	2925.504	2926.705	2926.788	2926.885	10
2927.077	2927.378	2927.686	2927.949	2930.172	15
2930.671	2931.424	2931.728	2932.250	2933.246	20
2933.364	2933.729	2935.186	2935.826	2936.683	25
2936.975	2937.239	2937.312	2937.496	2937.768	30
2938.238	2939.515	2940.914			35





2943.328	2943.793	2945.950	2947.675	2947.812	5
2947.916	2948.109	2948.440	2949.154	2950.693	10
2951.595	2953.187	2953.406	2953.540	2953.685	15
2954.153	2954.401	2955.681	2956.131	2957.028	20
2958.019	2958.121	2958.231	2958.537	2958.665	25
2960.520	2960.825				30

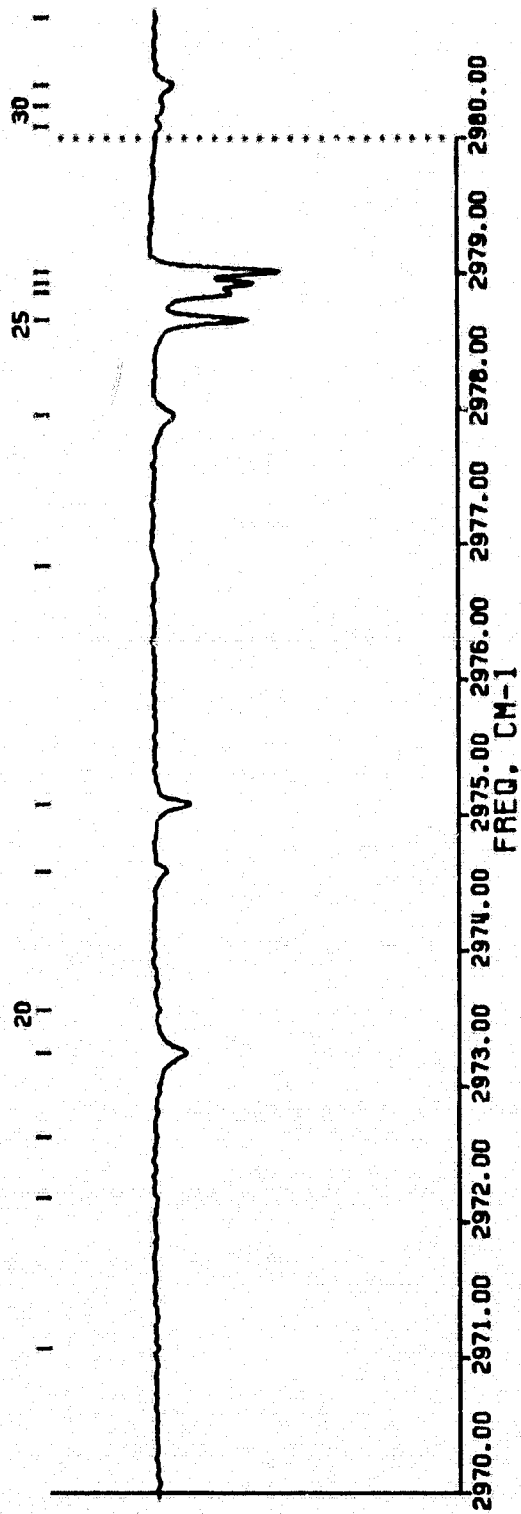
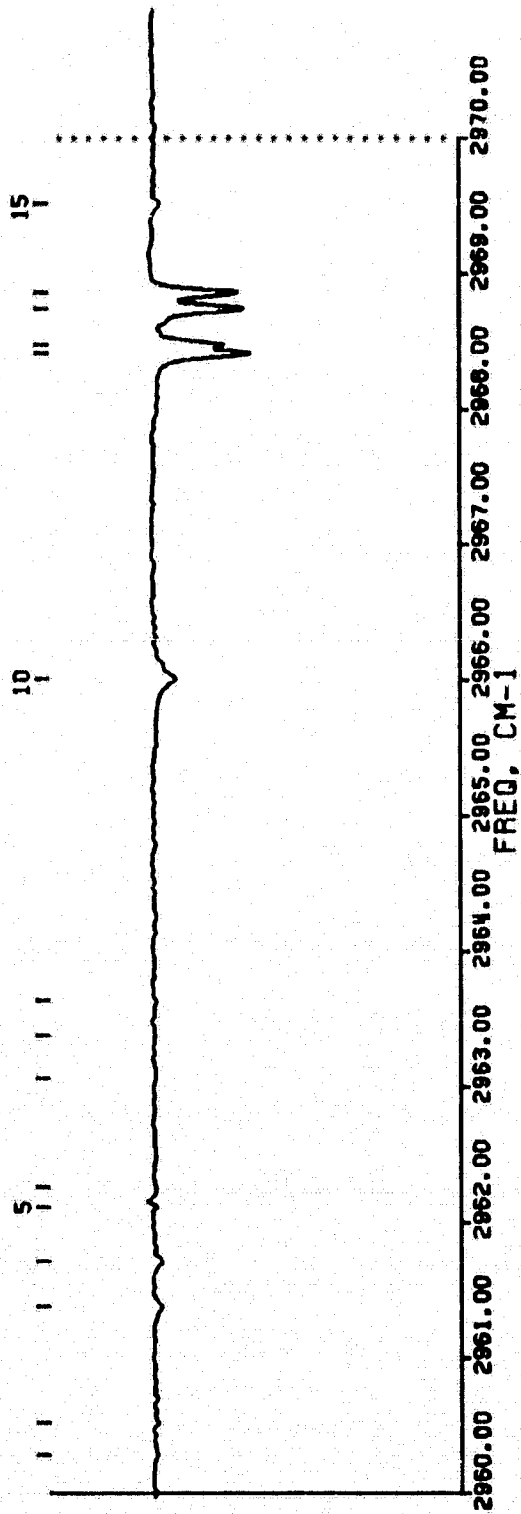
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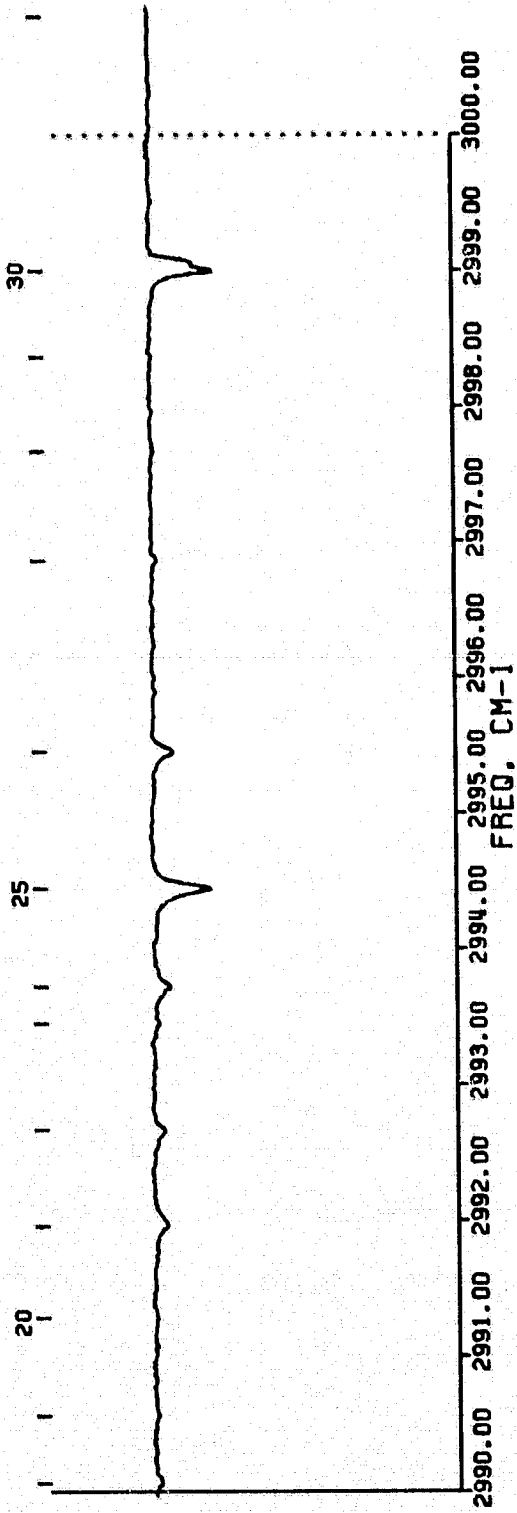
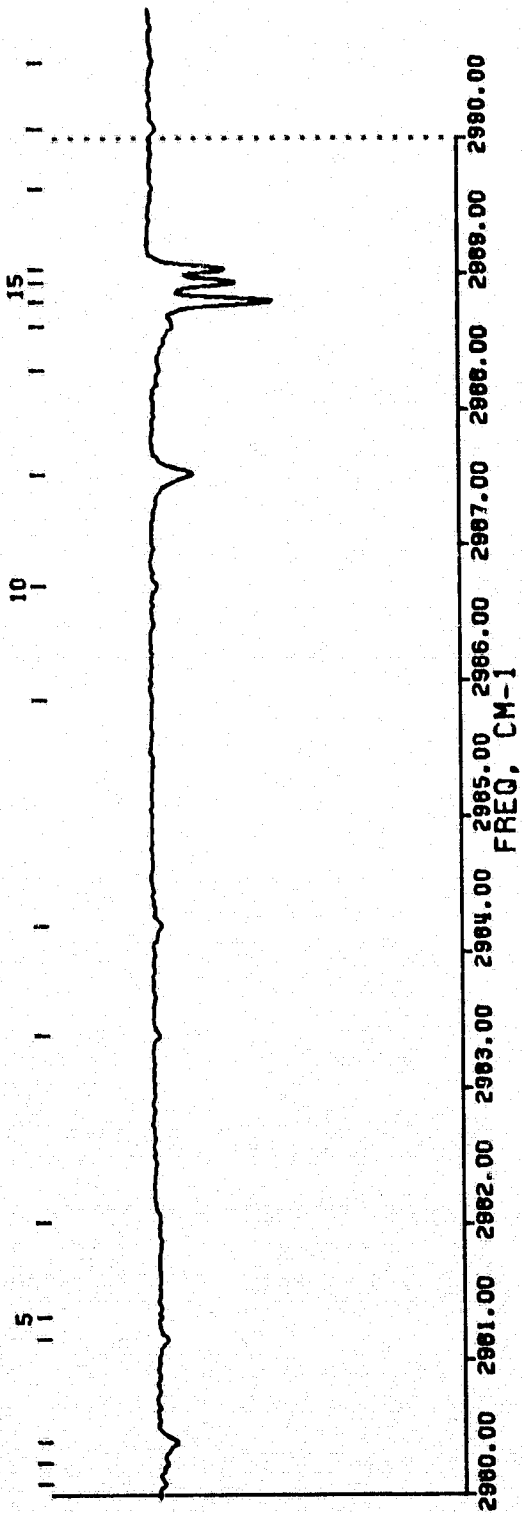
222

2960.281	2960.520	2961.373	2961.712	2962.112	5
2962.253	2963.064	2963.378	2963.635	2966.007	10
2968.408	2968.470	2968.739	2968.858	2969.518	15
2971.070	2972.175	2972.630	2973.253	2973.567	20
2974.588	2975.085	2976.843	2977.951	2978.653	25
2978.855	2978.925	2979.013	2980.085	2980.240	30
2980.393	2980.885				35

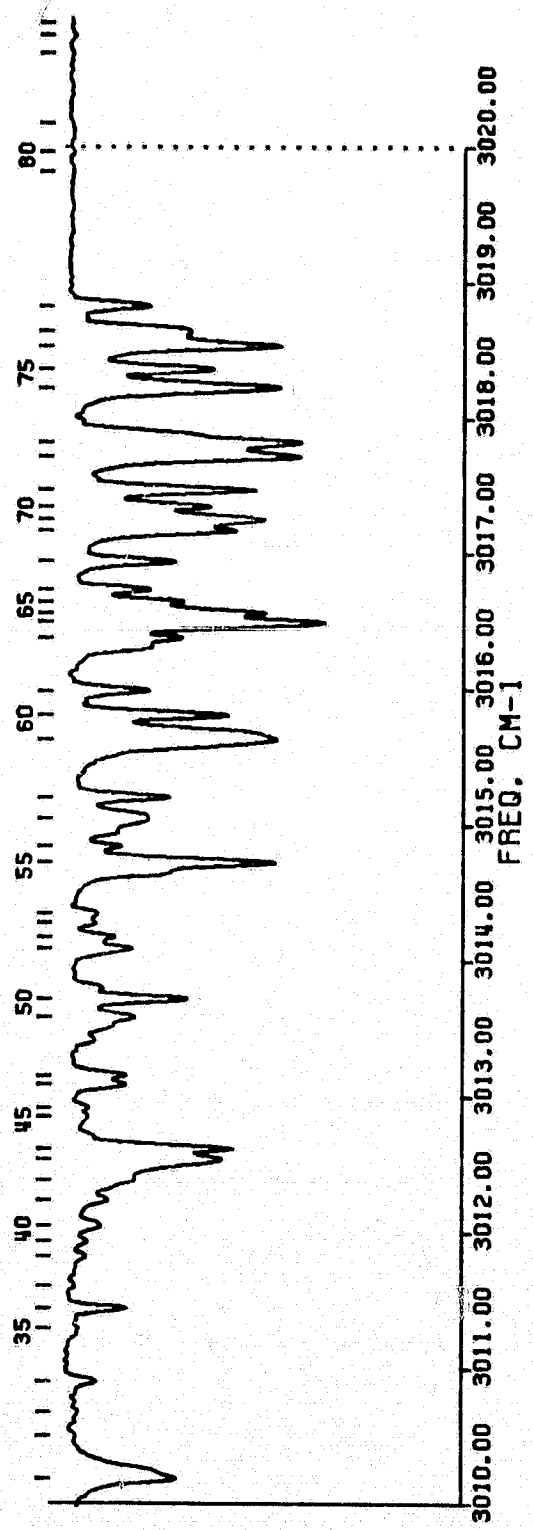
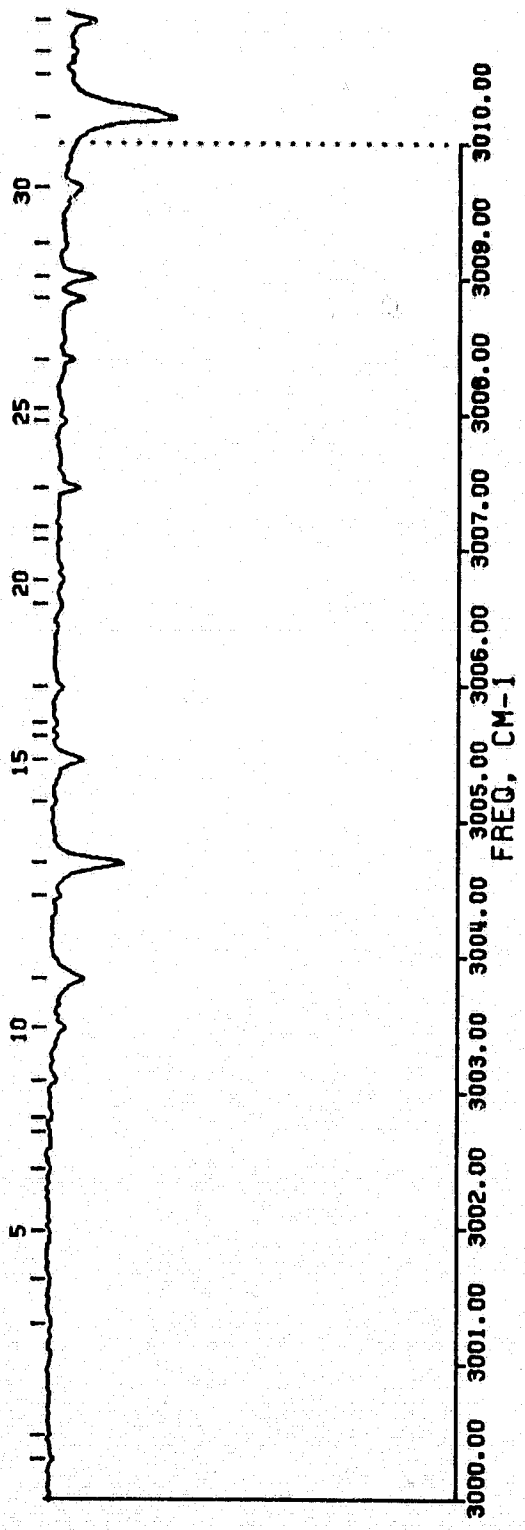
23



2980.085	2980.239	2980.393	2981.153	2981.309	5
2982.013	2983.387	2984.198	2985.860	2986.703	10
2987.523	2988.288	2988.615	2988.797	2988.934	15
2989.032	2989.626	2990.066	2990.561	2991.261	20
2991.965	2992.666	2993.453	2993.726	2994.445	25
2995.453	2996.865	2997.670	2998.363	2998.997	30
3000.872					35



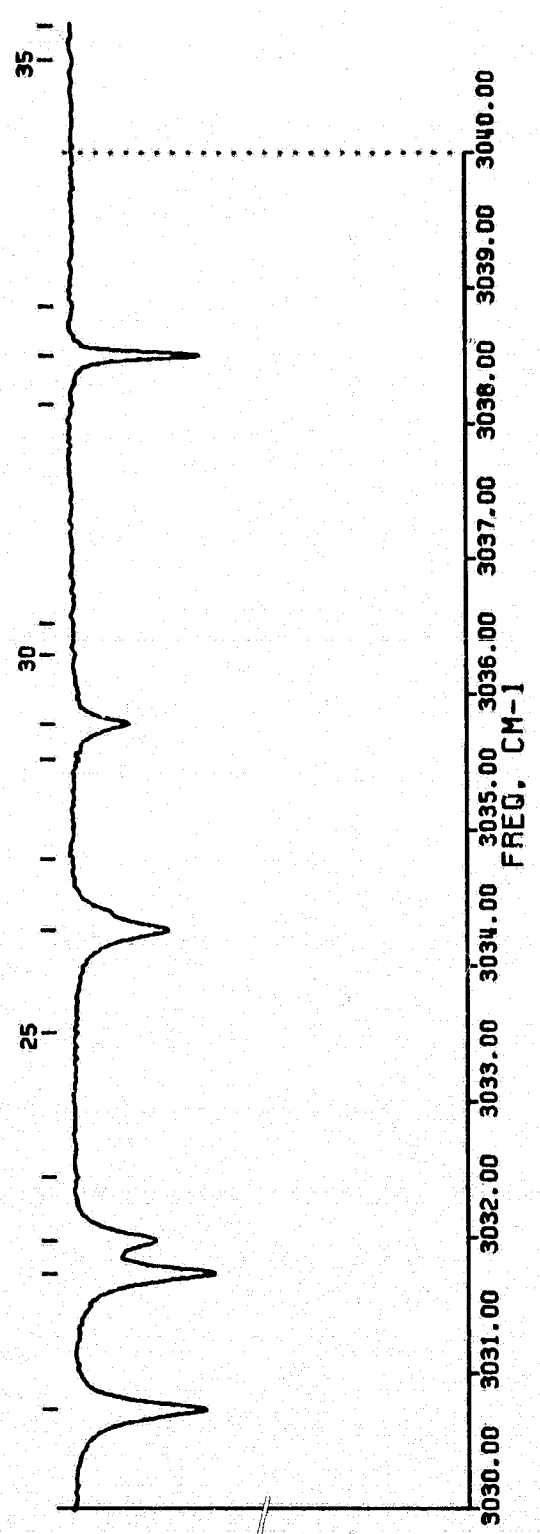
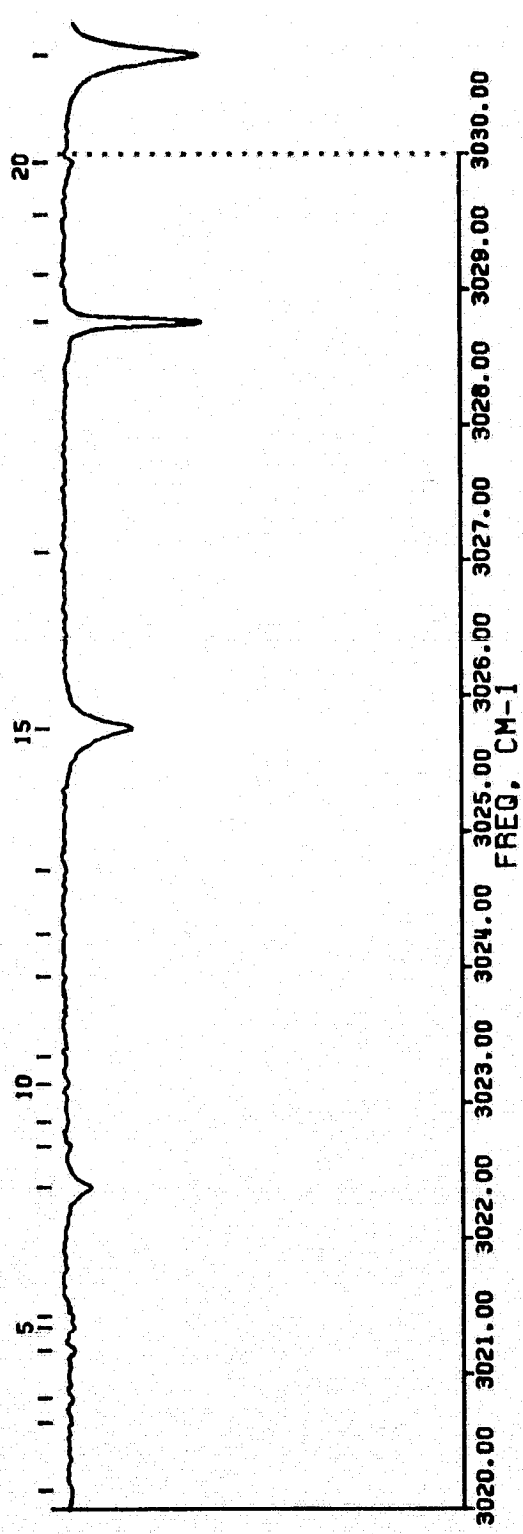
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3002.434	3002.703	3002.810	3003.083	3003.474	10
3003.839	3004.447	3004.689	3005.143	3005.447	15
3005.626	3005.718	3005.984	3006.596	3006.773	20
3007.073	3007.161	3007.453	3007.947	3008.040	25
3008.397	3008.848	3009.009	3009.255	3009.668	30
3010.185	3010.503	3010.672	3010.898	3011.288	35
3011.437	3011.604	3011.825	3011.931	3012.047	40
3012.236	3012.385	3012.535	3012.615	3012.853	45
3012.917	3013.089	3013.156	3013.583	3013.721	50
3014.088	3014.175	3014.276	3014.347	3014.726	55
3014.843	3015.047	3015.205	3015.631	3015.810	60
3015.990	3016.378	3016.495	3016.562	3016.647	65
3016.736	3016.943	3017.169	3017.251	3017.346	70
3017.468	3017.717	3017.821	3018.223	3018.360	75
3018.530	3018.639	3018.825	3019.818	3019.963	80
3020.176	3020.691	3020.825	3020.918		85





3020.143	3020.640	3020.825	3021.170	3021.341	5
3021.420	3022.374	3022.679	3022.861	3023.139	10
3023.339	3023.929	3024.246	3024.716	3025.760	15
3027.060	3028.756	3029.111	3029.553	3029.935	20
3030.728	3031.735	3031.978	3032.443	3033.510	25
3034.267	3034.793	3035.522	3035.787	3036.298	30
3036.525	3038.142	3038.500	3038.862	3040.683	35
3040.934					40

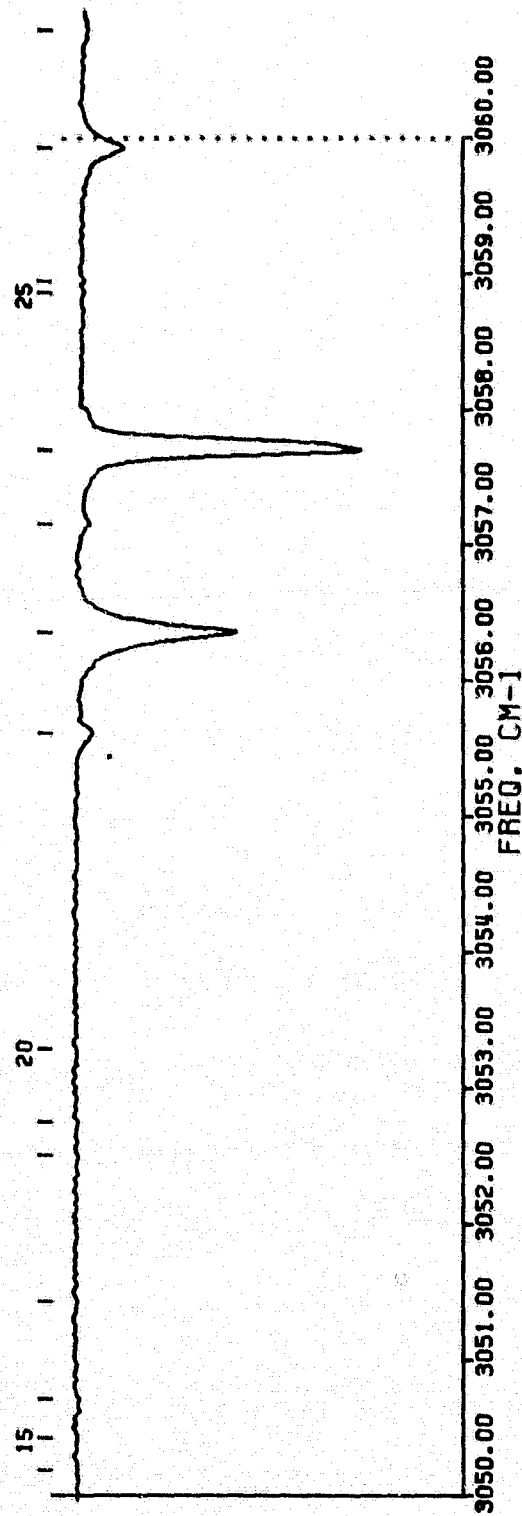
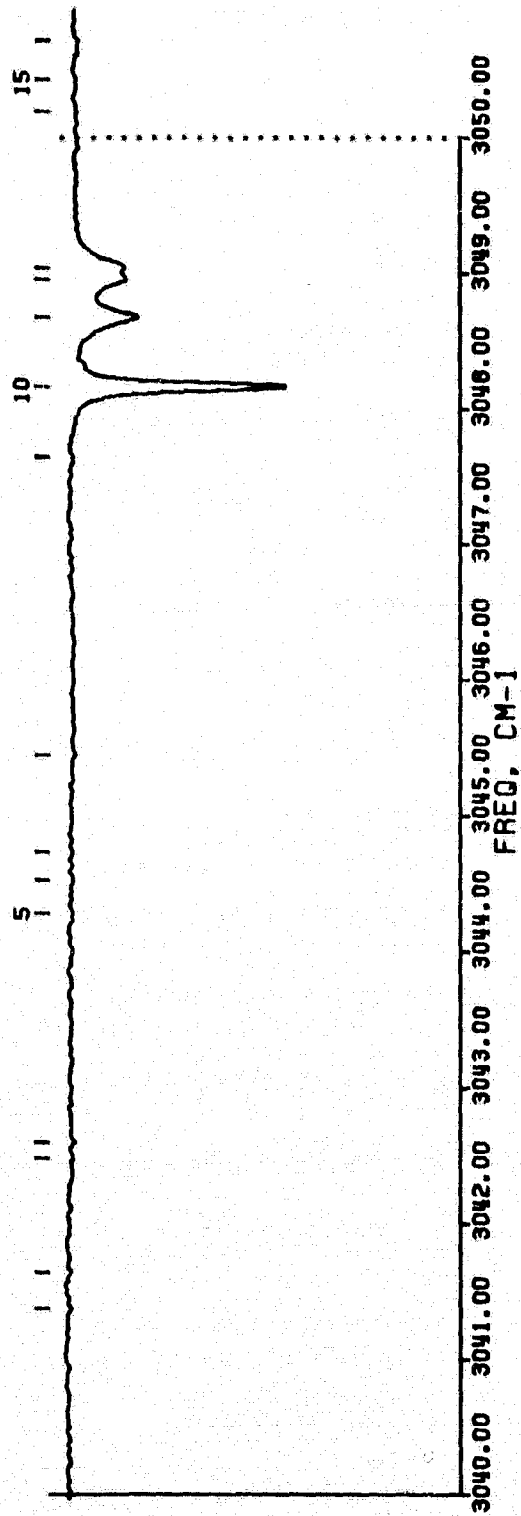
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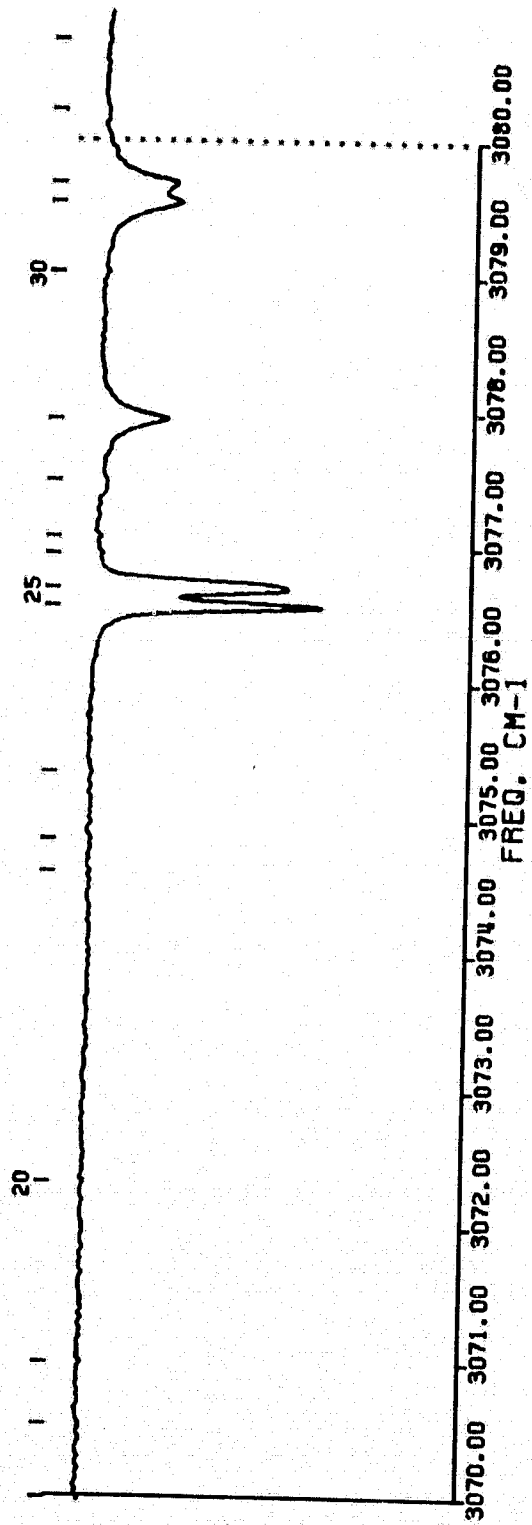
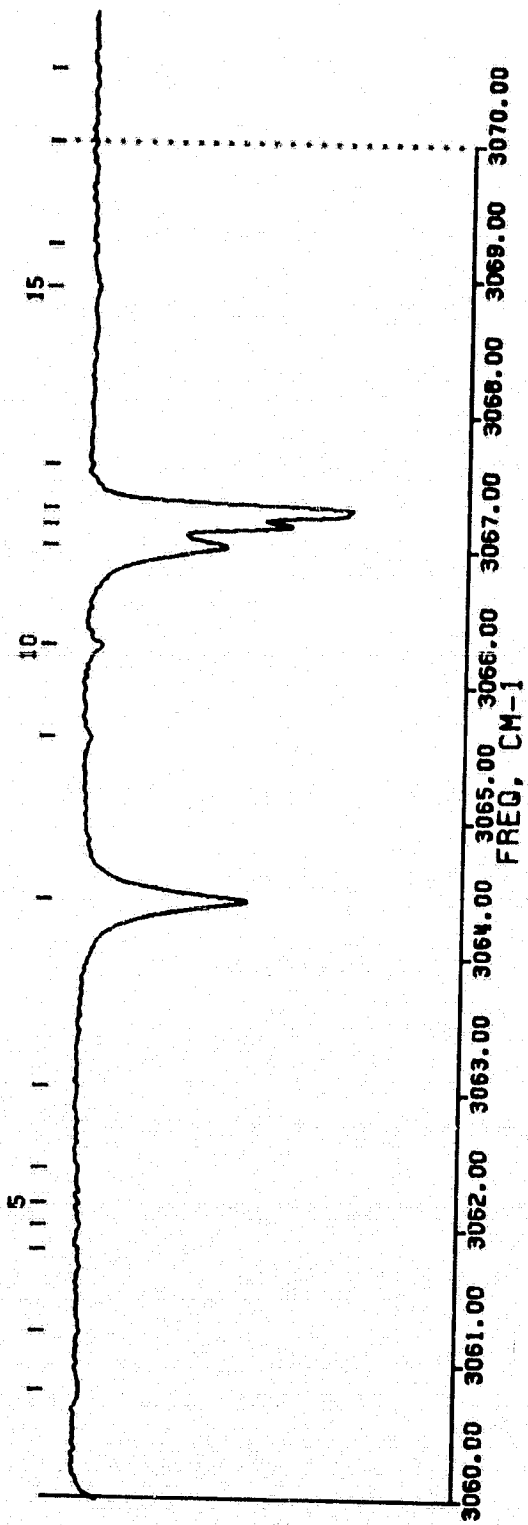
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3044.530	3044.736	3045.450	3047.649	3048.165	10
3048.674	3048.958	3049.042	3050.191	3050.431	15
3050.716	3051.430	3052.506	3052.753	3053.291	20
3055.618	3056.361	3057.153	3057.701	3058.867	25
3058.945	3059.926	3060.800			30

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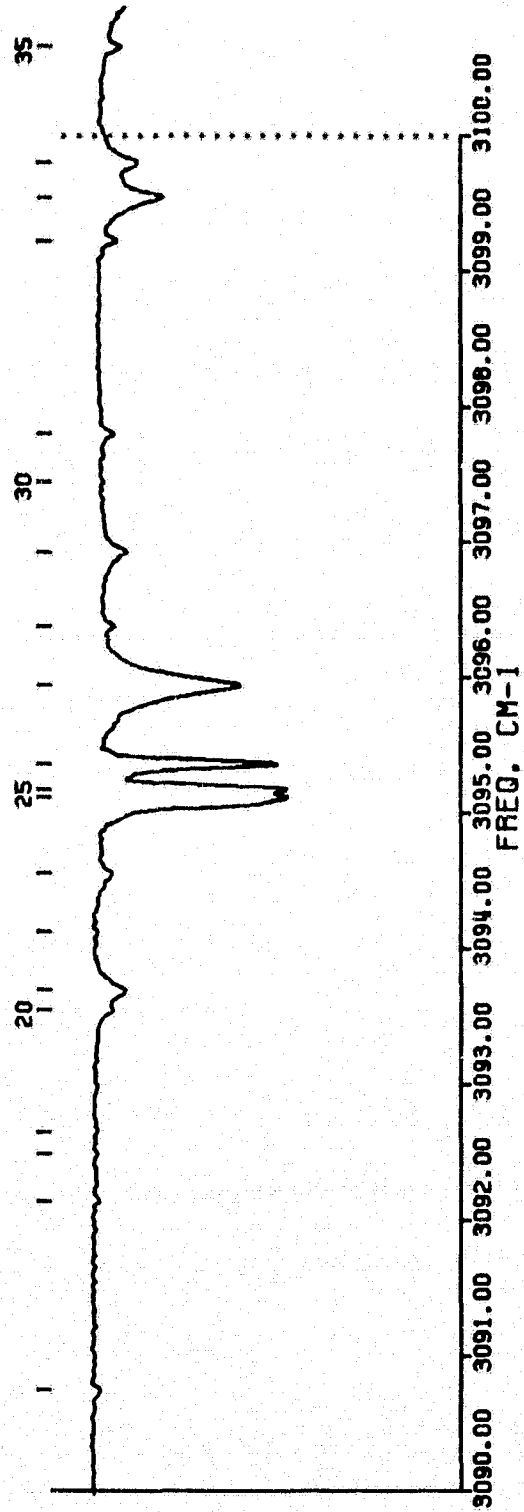
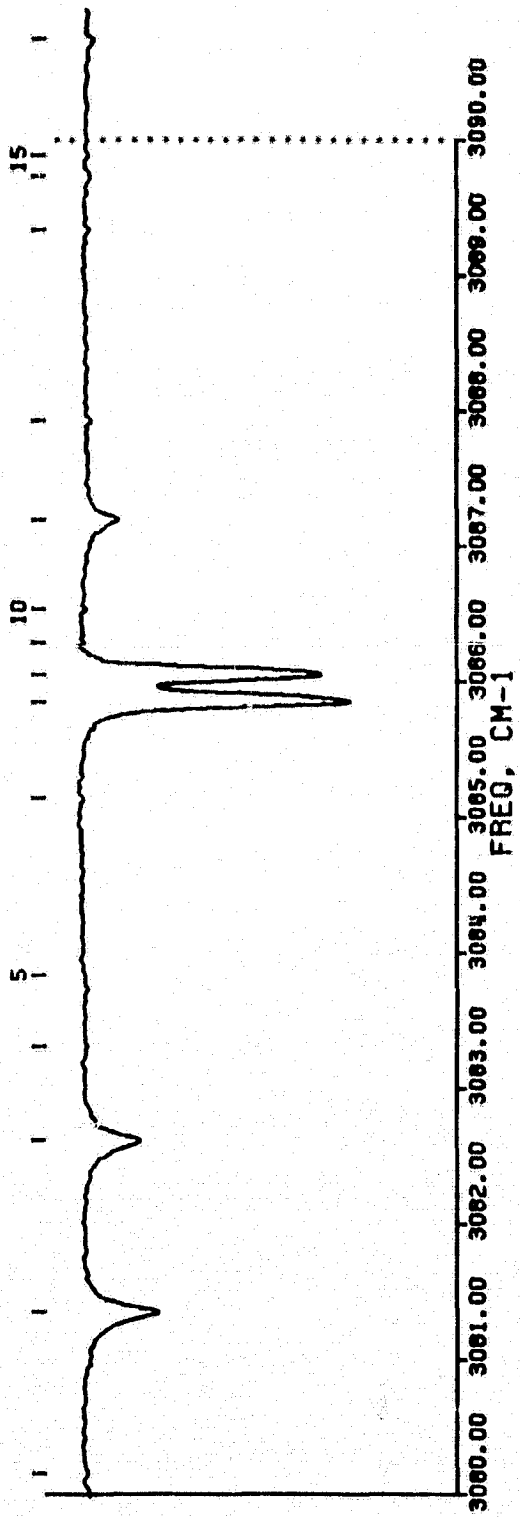
3060.787	3061.223	3061.820	3062.007	3062.166	5
3062.423	3063.027	3064.406	3065.600	3066.281	10
3067.018	3067.173	3067.291	3067.608	3068.923	15
3069.232	3069.988	3070.531	3070.984	3072.313	20
3074.601	3074.841	3075.336	3076.561	3076.693	25
3076.948	3077.070	3077.488	3077.942	3079.028	30
3079.540	3079.681	3080.221	3080.739		35



810

3080.155	3081.343	3082.610	3083.307	3083.833	5
3085.137	3085.849	3086.051	3086.291	3086.534	10
3087.193	3087.928	3089.335	3089.730	3089.885	15
3090.744	3092.140	3092.487	3092.651	3093.550	20
3093.596	3094.123	3094.559	3095.116	3095.173	25
3095.362	3095.942	3096.382	3096.928	3097.440	30
3097.800	3099.225	3099.546	3099.805	3100.660	35

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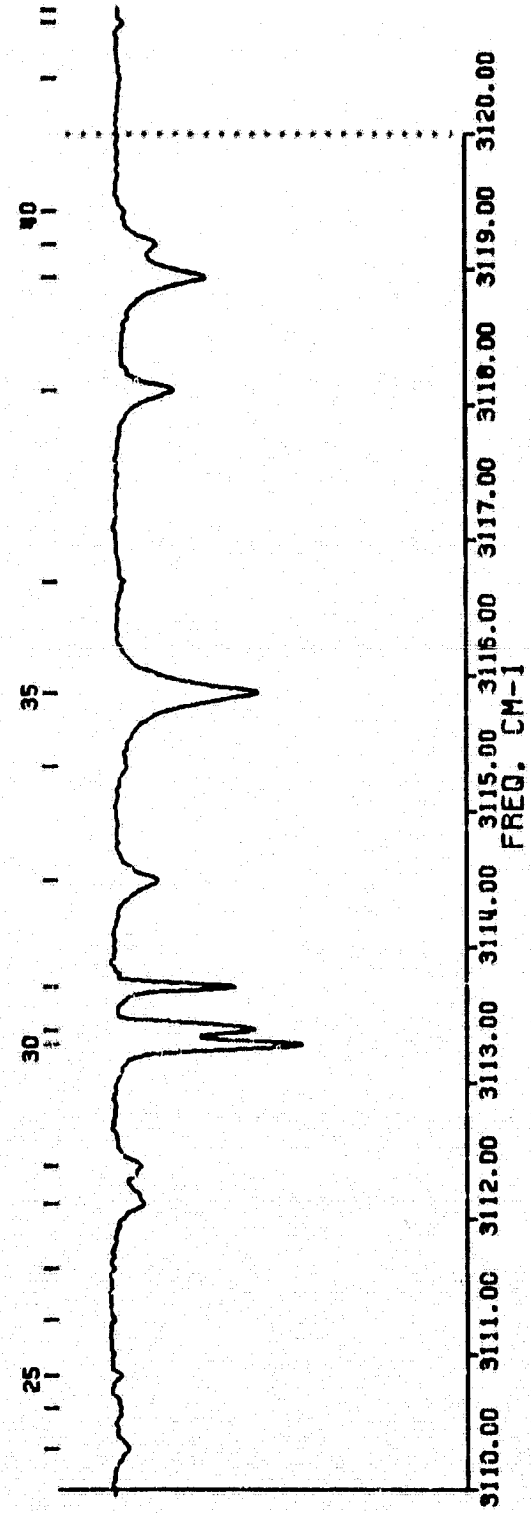
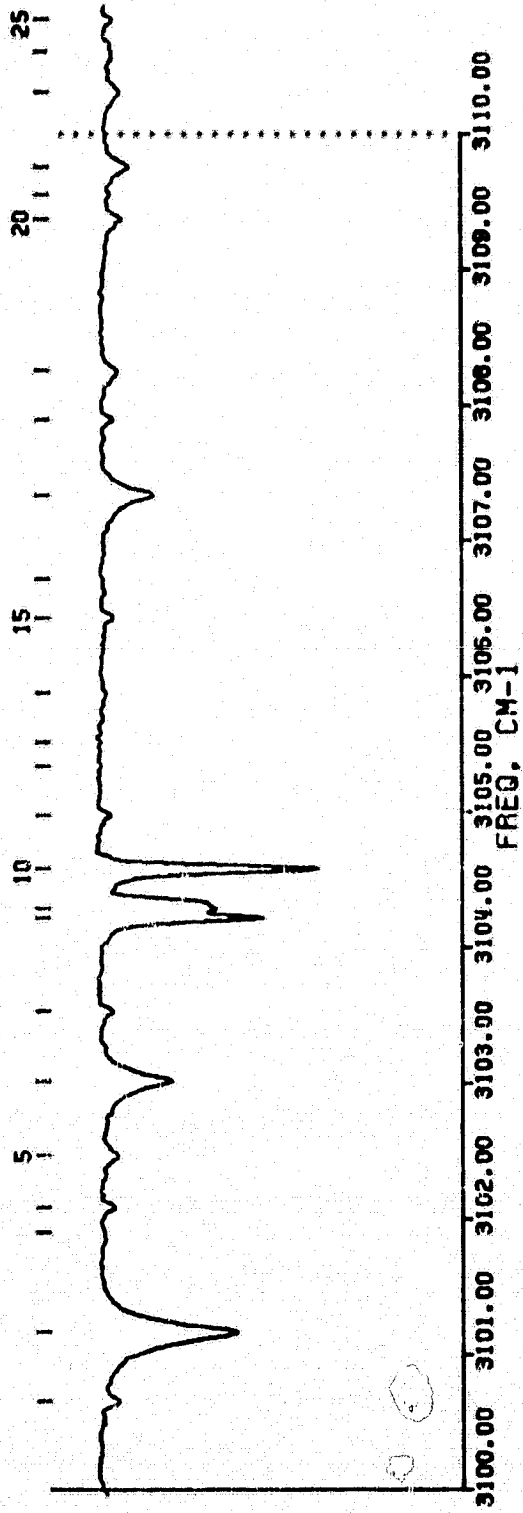


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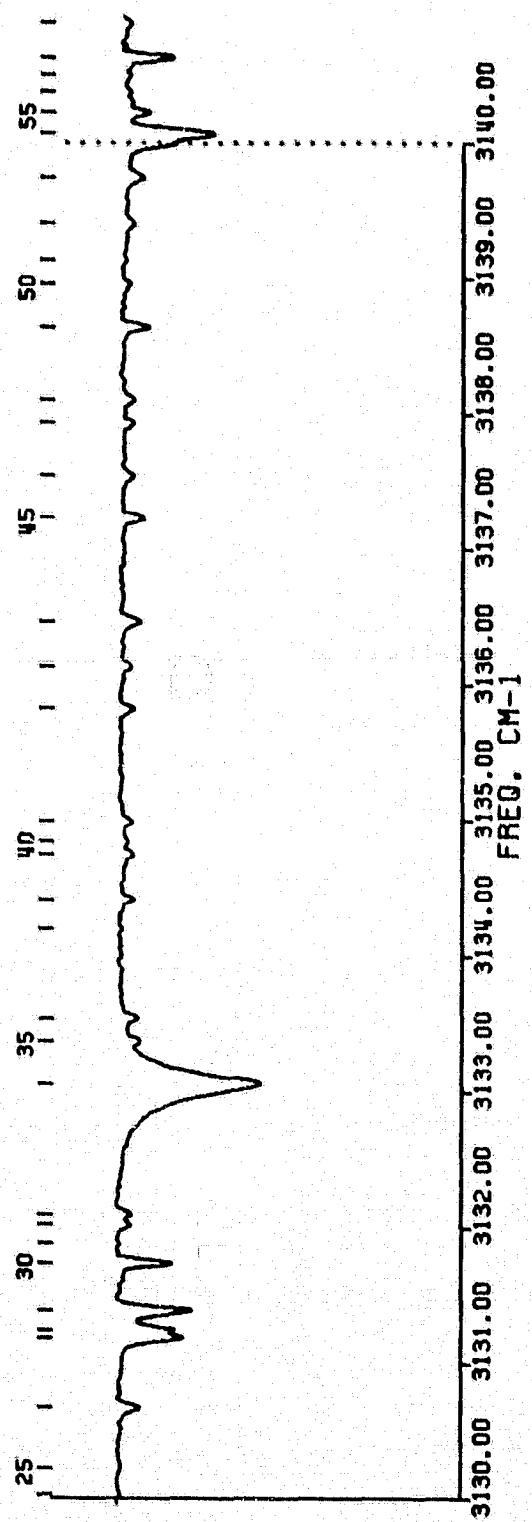
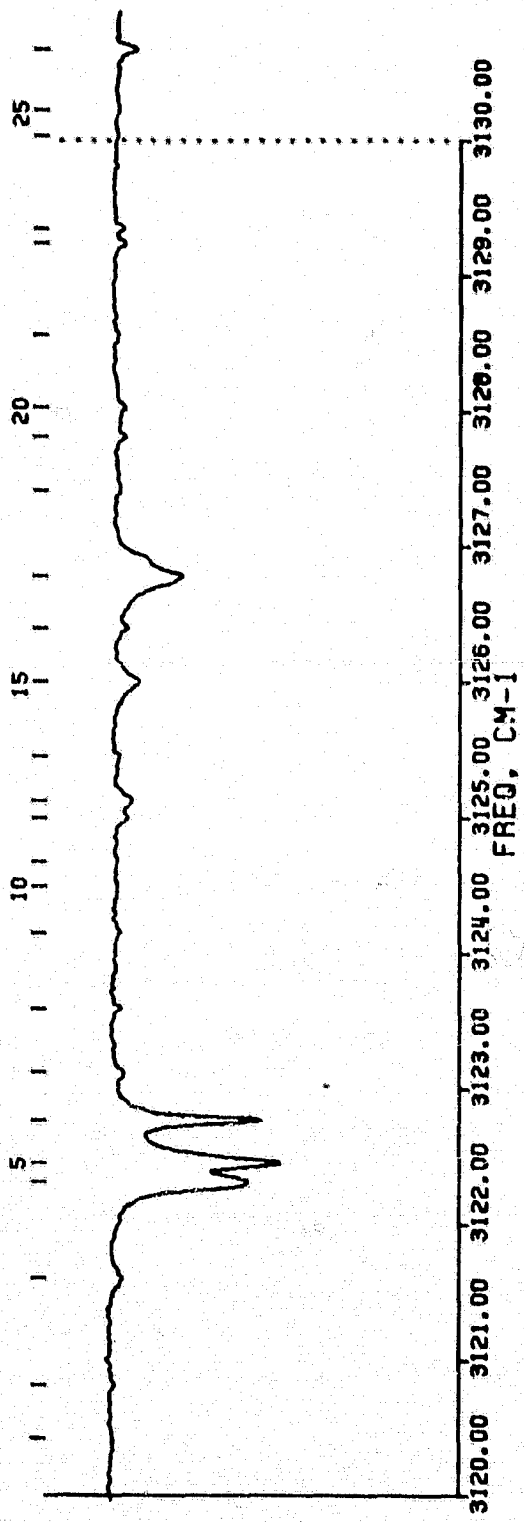
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3104.973	3105.336	3105.514	3105.873	3106.429	15
3106.715	3107.334	3107.894	3108.251	3109.370	20
3109.553	3109.755	3110.306	3110.605	3110.843	25
3111.255	3111.635	3112.112	3112.386	3113.281	30
3113.392	3113.711	3114.493	3115.337	3115.876	35
3116.695	3118.110	3118.943	3119.185	3119.430	40
3120.410	3120.821	3120.913			45

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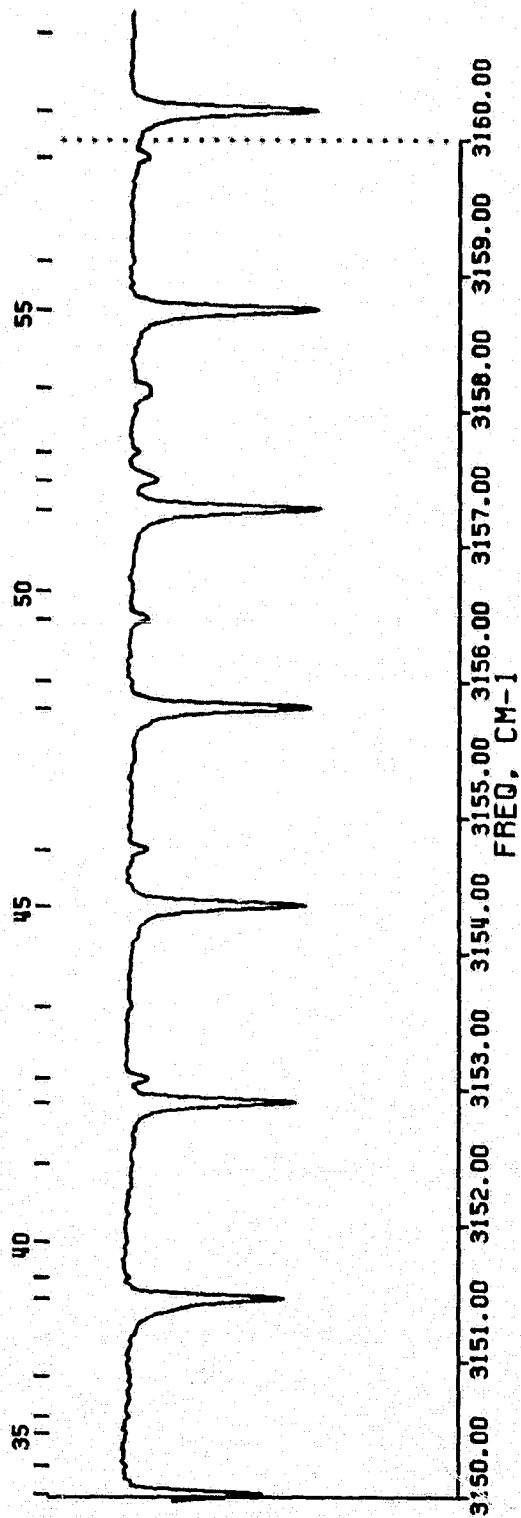
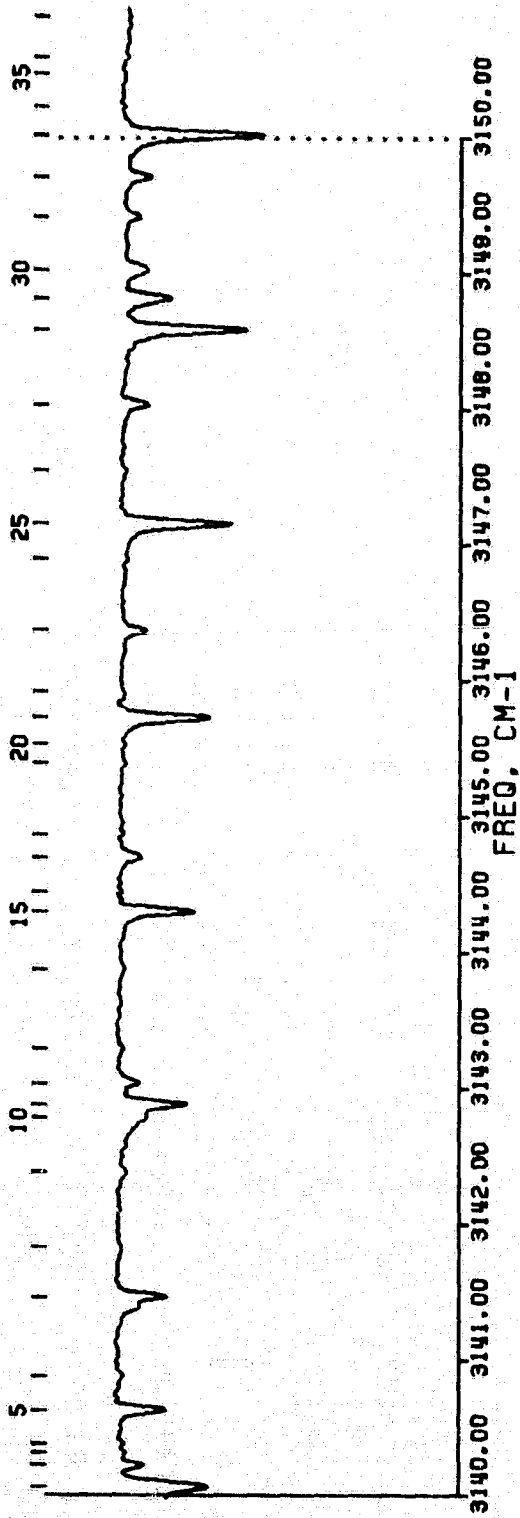


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3120.425	3120.814	3121.601	3122.311	3122.450	5
3122.768	3123.125	3123.594	3124.155	3124.498	10
3124.679	3125.003	3125.130	3125.458	3126.006	15
3126.399	3126.783	3127.417	3127.811	3128.030	20
3128.565	3129.239	3129.348	3130.031	3130.223	25
3130.671	3131.188	3131.243	3131.388	3131.736	30
3131.886	3132.023	3132.098	3133.064	3133.380	35
3133.545	3134.203	3134.415	3134.748	3134.847	40
3134.990	3135.823	3136.134	3136.462	3137.230	45
3137.541	3137.933	3138.101	3138.636	3138.958	50
3139.128	3139.401	3139.743	3140.066	3140.223	55
3140.378	3140.499	3140.628	3140.866		60

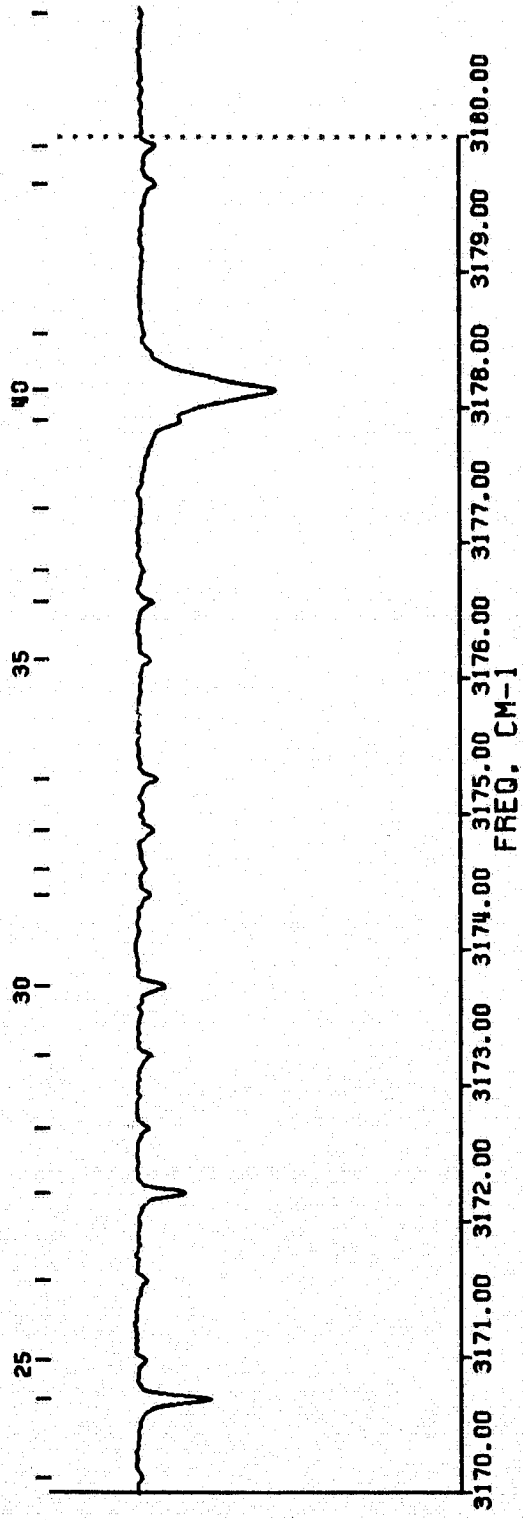
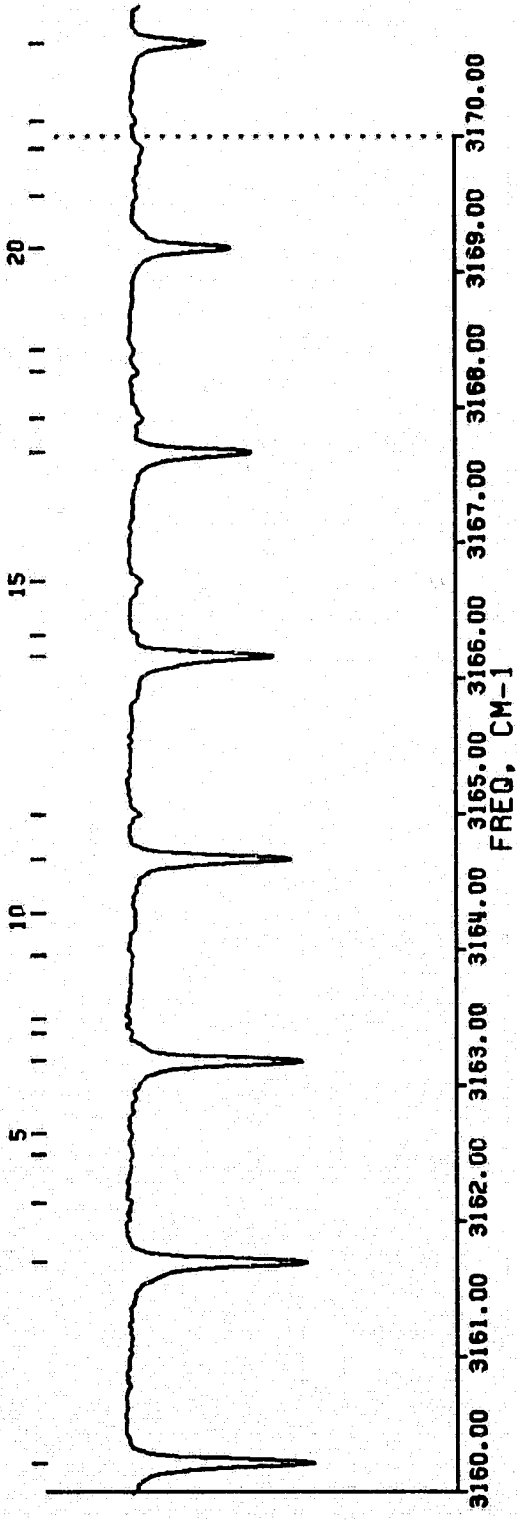


3140.066	3140.224	3140.314	3140.378	3140.628	5
3140.880	3141.461	3141.830	3142.380	3142.780	10
3142.878	3143.036	3143.293	3143.875	3144.298	15
3144.447	3144.696	3144.870	3145.392	3145.530	20
3145.726	3145.915	3146.369	3146.894	3147.154	25
3147.545	3148.031	3148.585	3148.816	3149.028	30
3149.417	3149.714	3150.021	3150.230	3150.472	35
3150.595	3150.894	3151.463	3151.619	3151.888	40
3152.460	3152.910	3153.087	3153.617	3154.359	45
3154.773	3155.815	3156.013	3156.472	3156.681	50
3157.278	3157.495	3157.703	3158.172	3158.744	55
3159.106	3159.874	3160.215	3160.790		60



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3160.215	3161.693	3162.131	3162.485	3162.639	5
3163.179	3163.386	3163.486	3163.955	3164.263	10
3164.666	3164.996	3166.164	3166.315	3166.715	15
3167.667	3167.916	3168.259	3168.425	3169.175	20
3169.556	3169.906	3170.107	3170.687	3170.972	25
3171.563	3172.207	3172.683	3173.222	3173.731	30
3174.406	3174.597	3174.884	3175.261	3176.139	35
3176.565	3176.796	3177.257	3177.902	3178.128	40
3178.540	3179.648	3179.931	3180.907		45

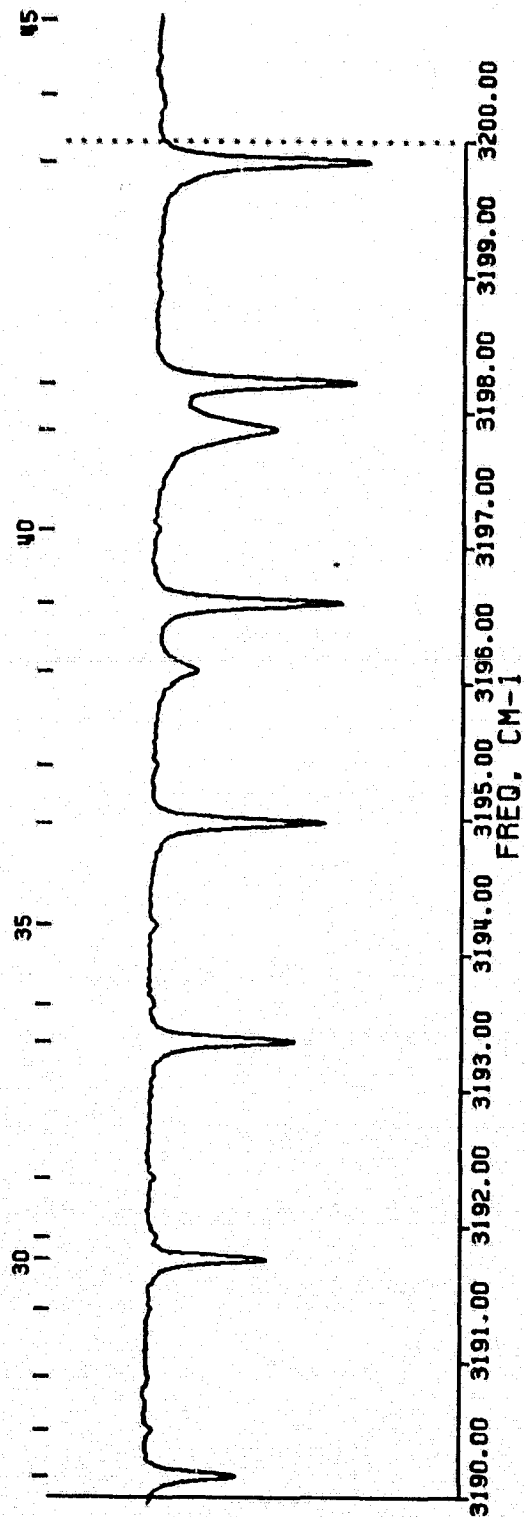
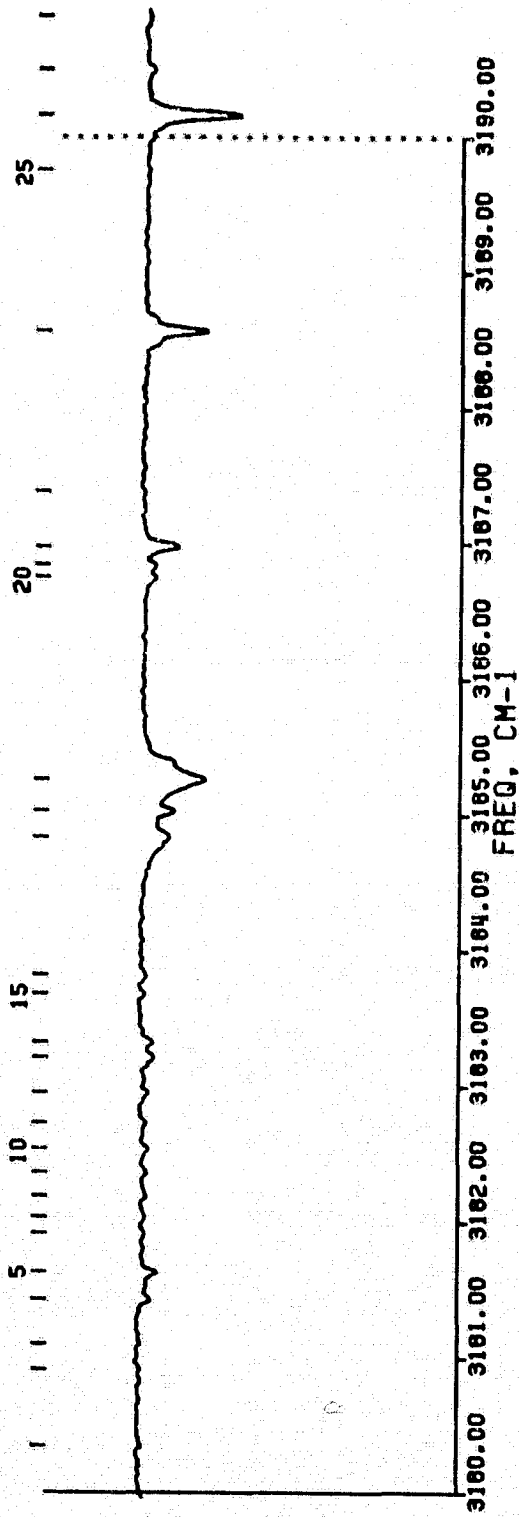


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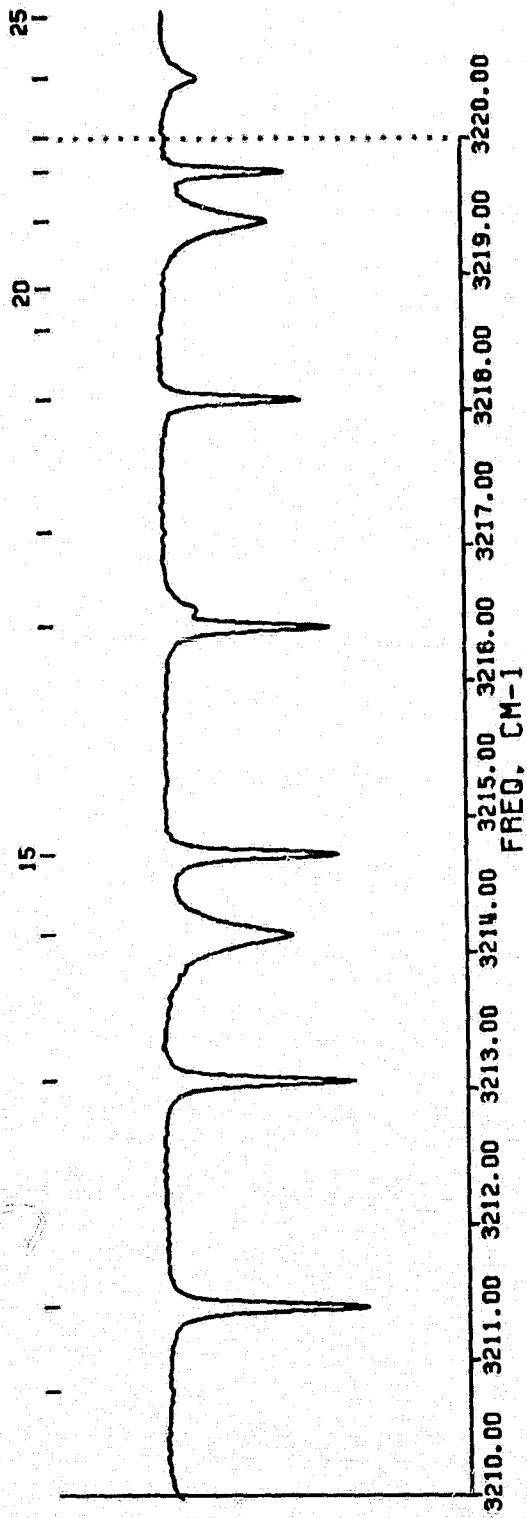
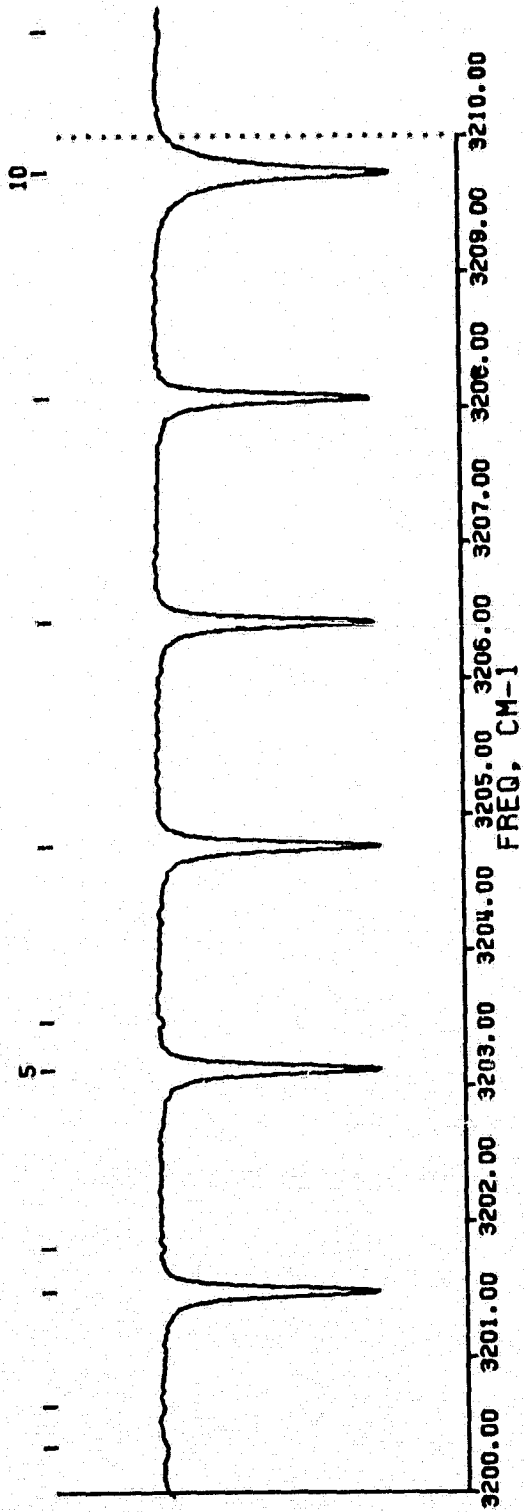


3180.347	3180.906	3181.092	3181.421	3181.625	5
3181.912	3182.035	3182.186	3182.359	3182.535	10
3182.728	3182.952	3183.206	3183.320	3183.676	15
3183.815	3184.830	3185.029	3185.260	3186.750	20
3186.839	3186.975	3187.381	3188.562	3189.756	25
3190.158	3190.498	3190.890	3191.390	3191.756	30
3191.921	3192.356	3193.363	3193.637	3194.223	35
3194.975	3195.400	3196.095	3196.595	3197.135	40
3197.871	3198.216	3199.846	3200.338	3200.895	45

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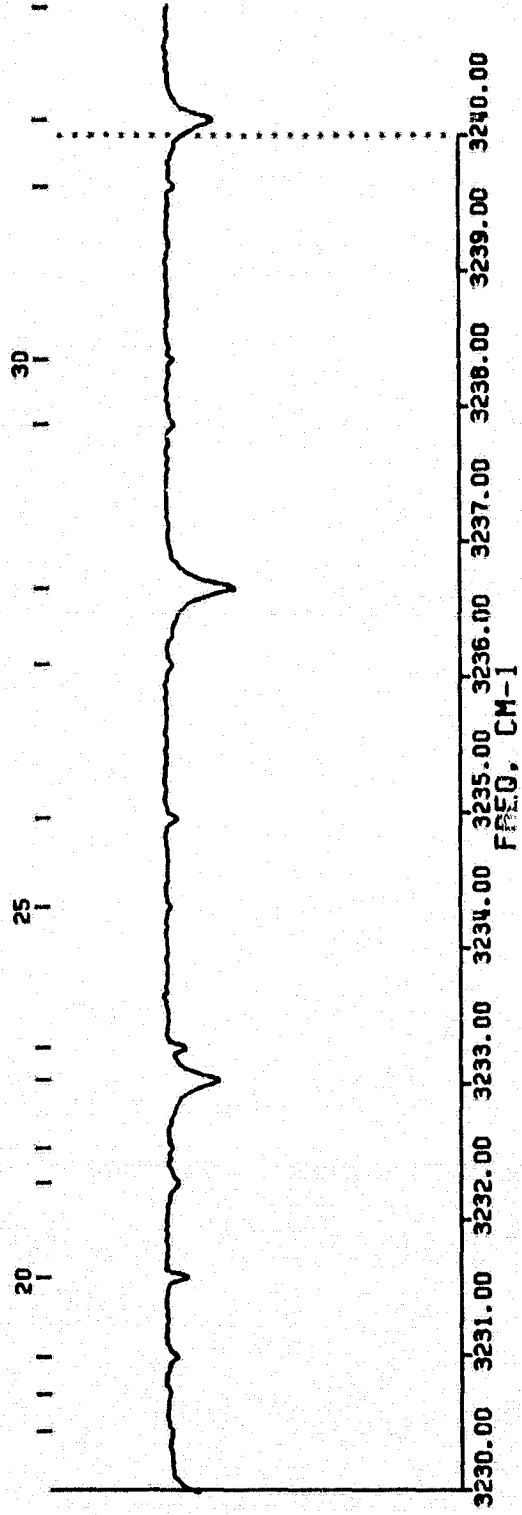
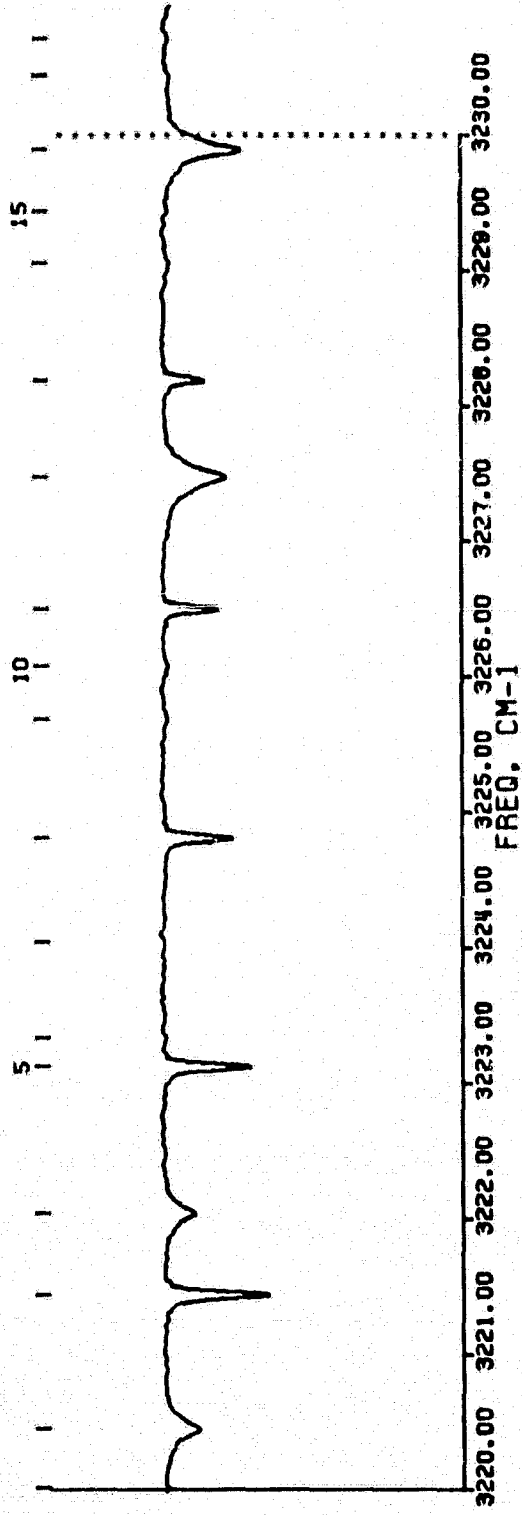


3200.336	3200.638	3201.481	3201.803	3203.118	5
3203.468	3204.765	3206.414	3208.067	3209.728	10
3210.766	3211.389	3213.055	3214.133	3214.723	15
3216.399	3217.096	3218.075	3218.581	3218.889	20
3219.388	3219.753	3220.008	3220.447	3220.891	25



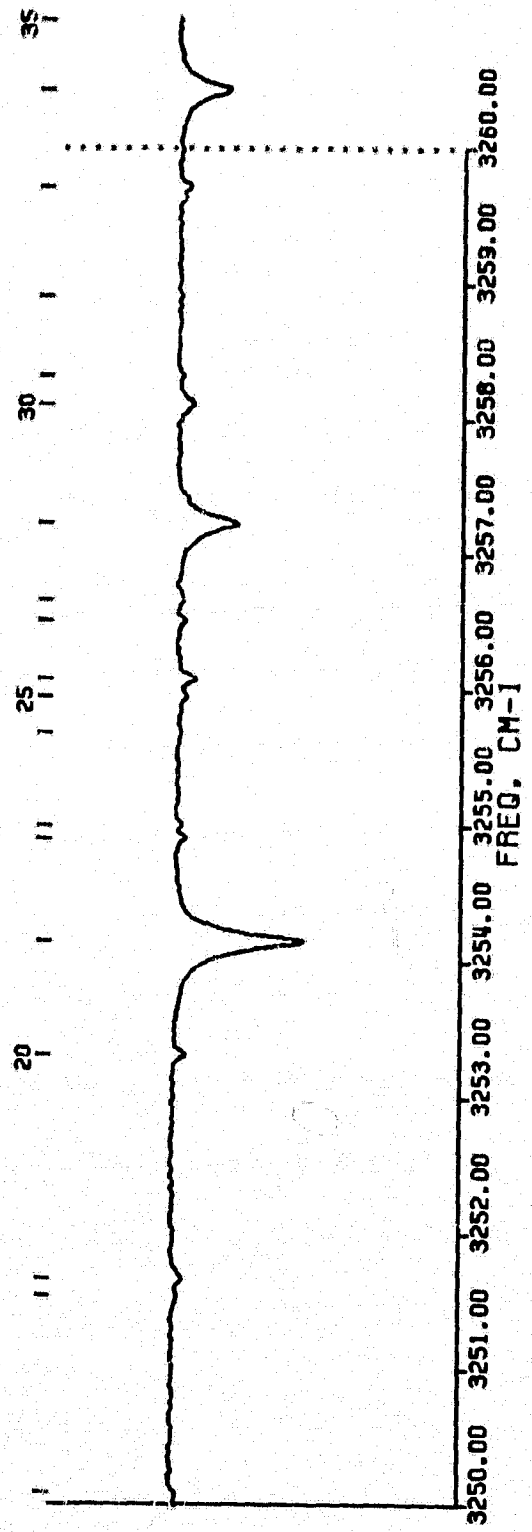
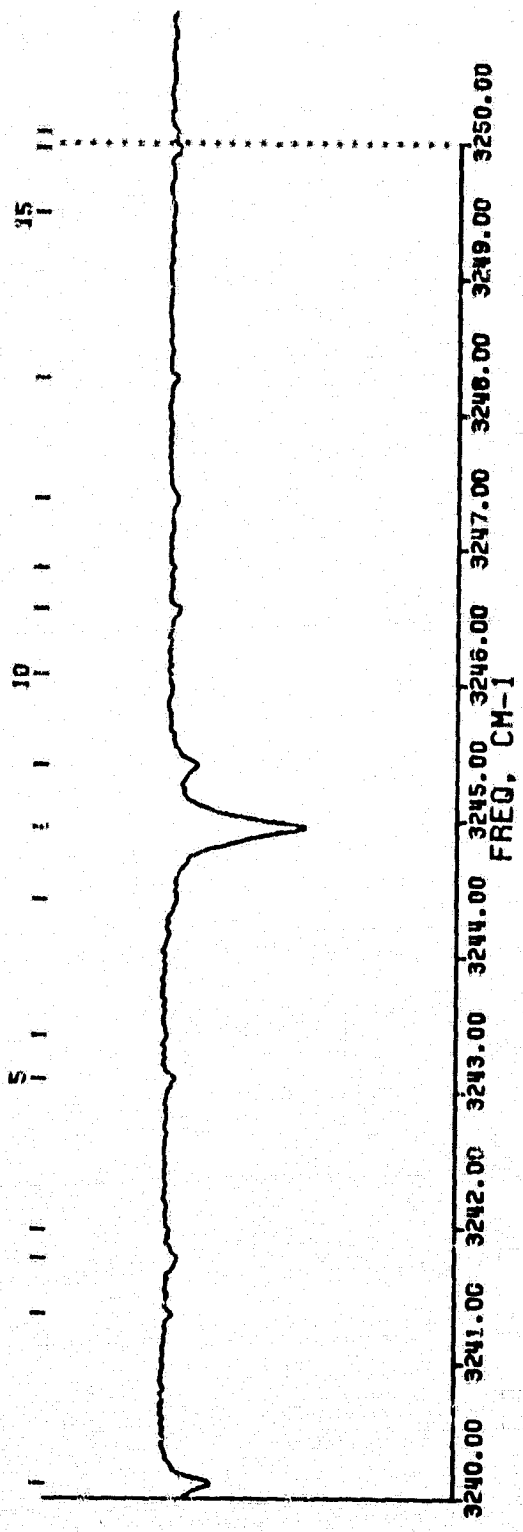
3220.017	3220.447	3221.435	3222.038	3223.121	5
3223.331	3224.038	3224.808	3225.685	3226.075	10
3226.496	3227.471	3228.185	3229.056	3229.437	15
3229.891	3230.439	3230.712	3230.982	3231.568	20
3232.267	3232.523	3233.026	3233.265	3234.302	25
3234.958	3236.093	3236.653	3237.861	3238.339	30
3239.618	3240.111	3240.944			35

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3240.114	3241.357	3241.771	3241.983	3243.099	5
3243.416	3244.421	3244.950	3245.416	3246.081	10
3246.560	3246.865	3247.375	3248.263	3249.486	15
3249.966	3250.085	3251.533	3251.659	3253.316	20
3254.152	3254.912	3255.006	3255.683	3255.953	25
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3258.320	3258.909	3259.713	3260.433	3260.942	35

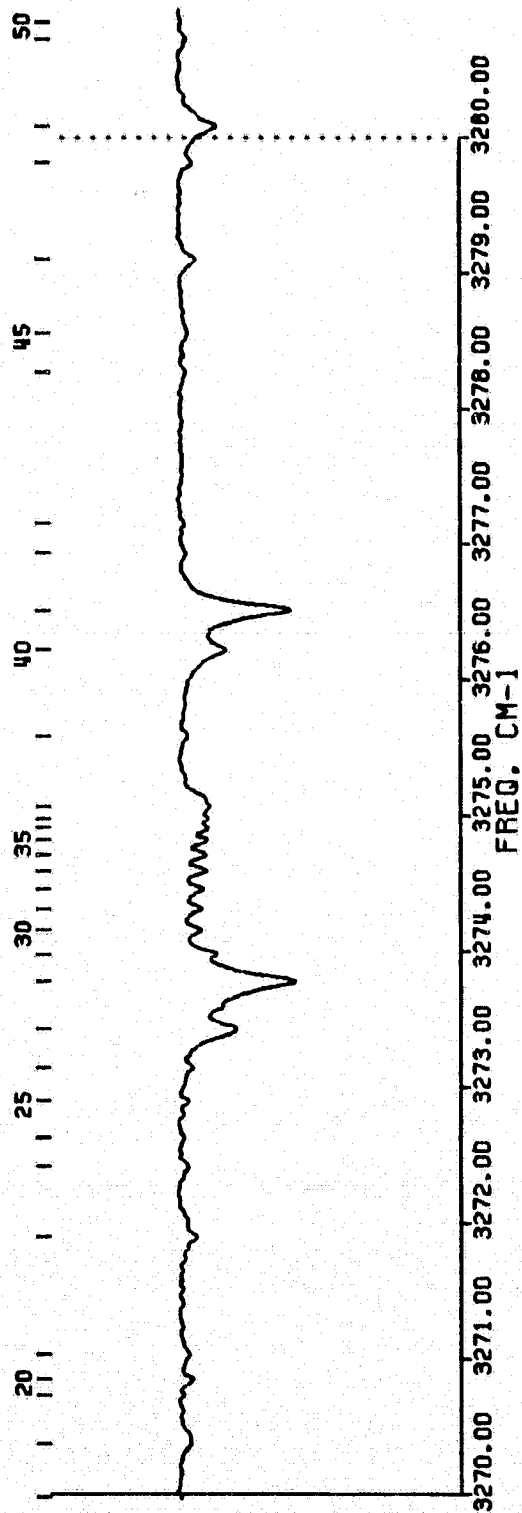
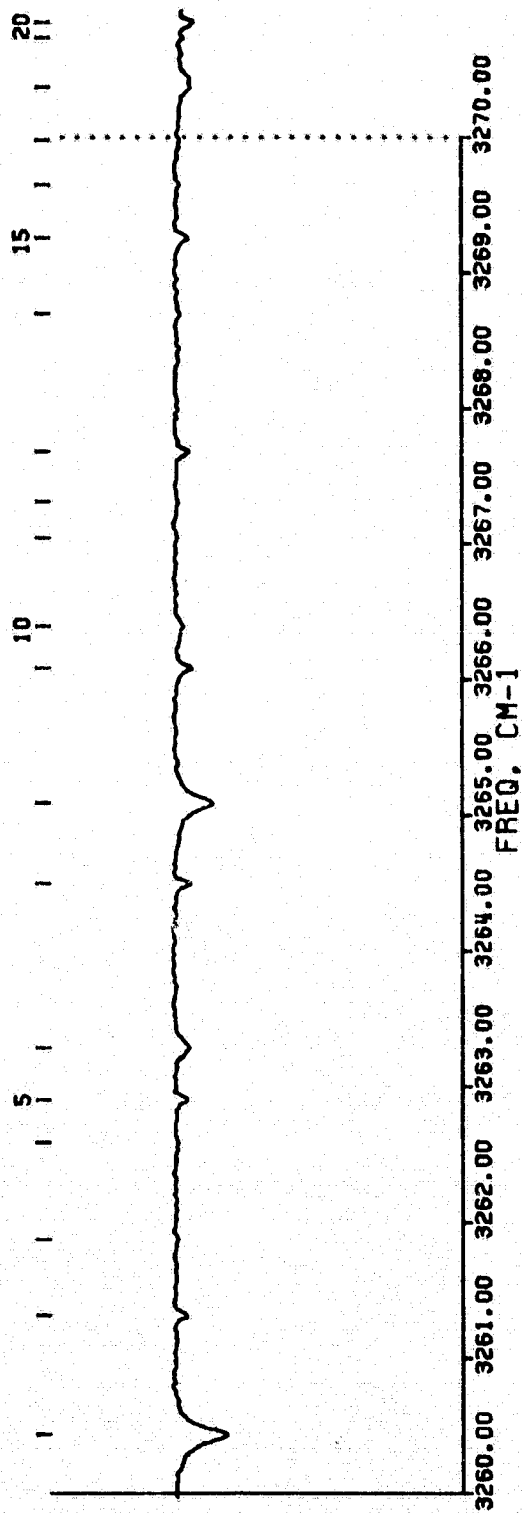
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3260.433	3261.309	3261.872	3262.583	3262.903	5
3263.286	3264.495	3265.090	3266.085	3266.392	10
3267.045	3267.311	3267.683	3268.697	3269.256	15
3269.651	3269.980	3270.371	3270.733	3270.848	20
3271.033	3271.896	3272.417	3272.630	3272.898	25
3273.147	3273.433	3273.780	3273.980	3274.159	30
3274.316	3274.463	3274.592	3274.712	3274.825	35
3274.913	3274.981	3275.072	3275.588	3276.223	40
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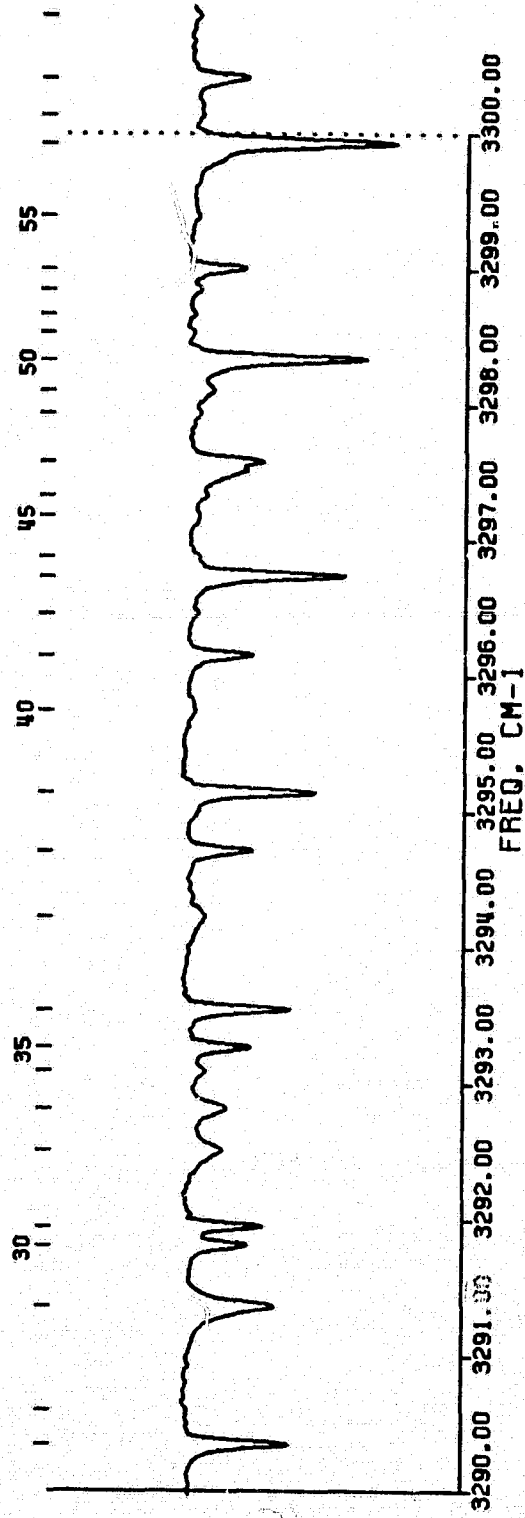
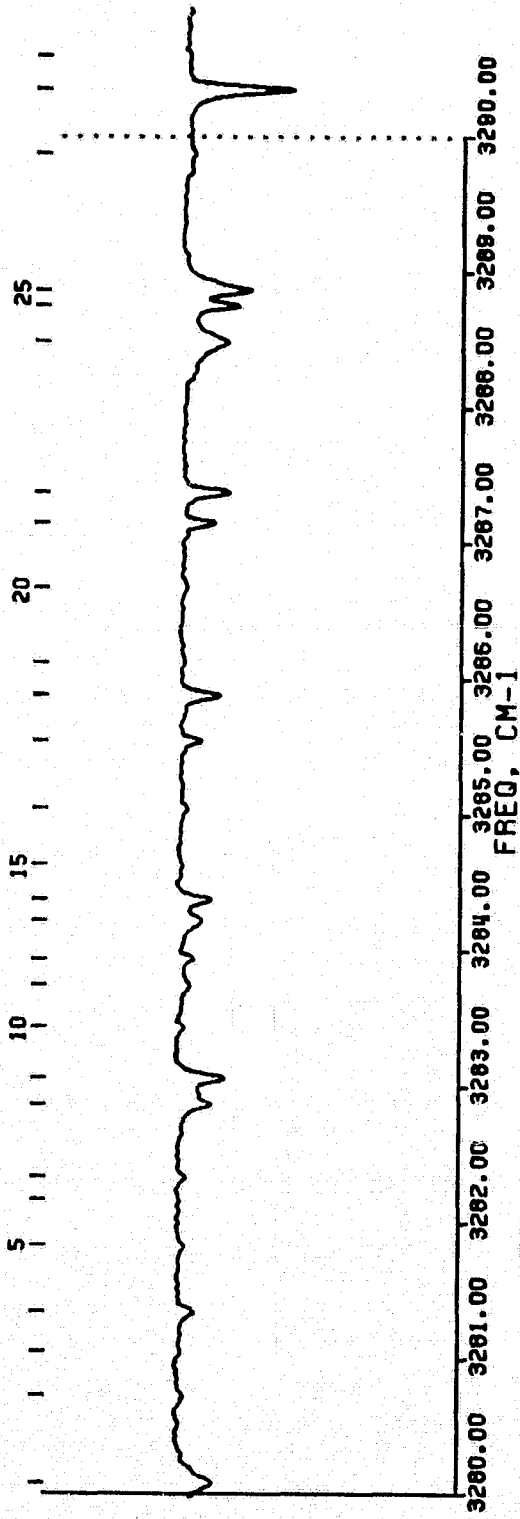
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5.4

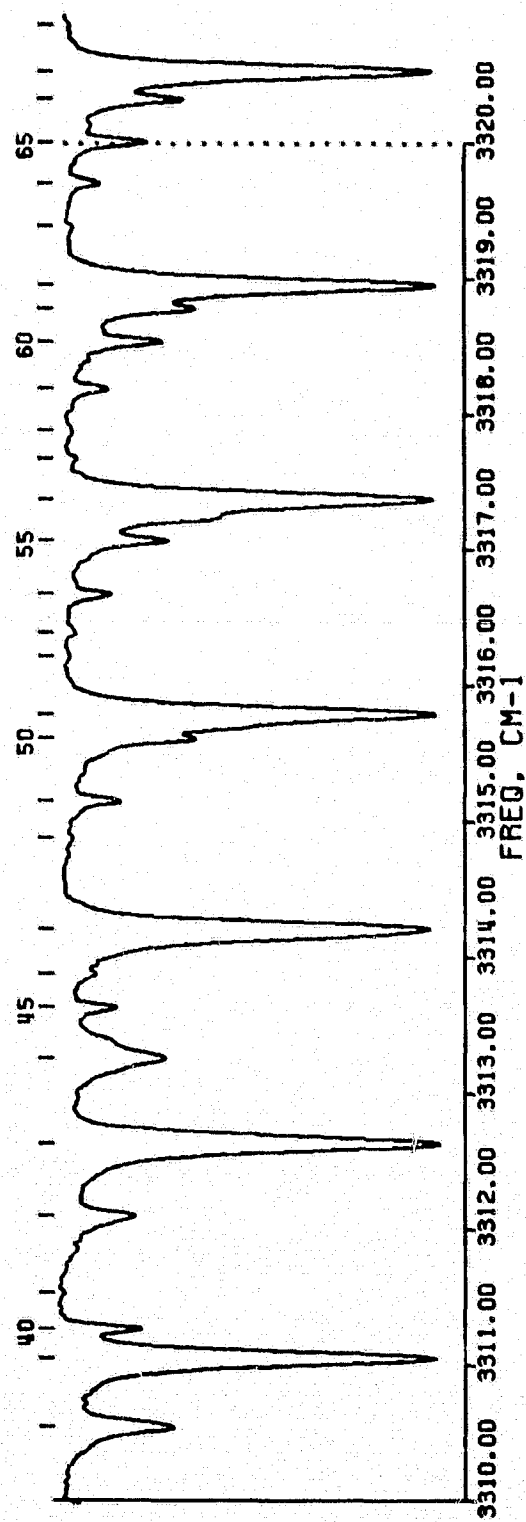
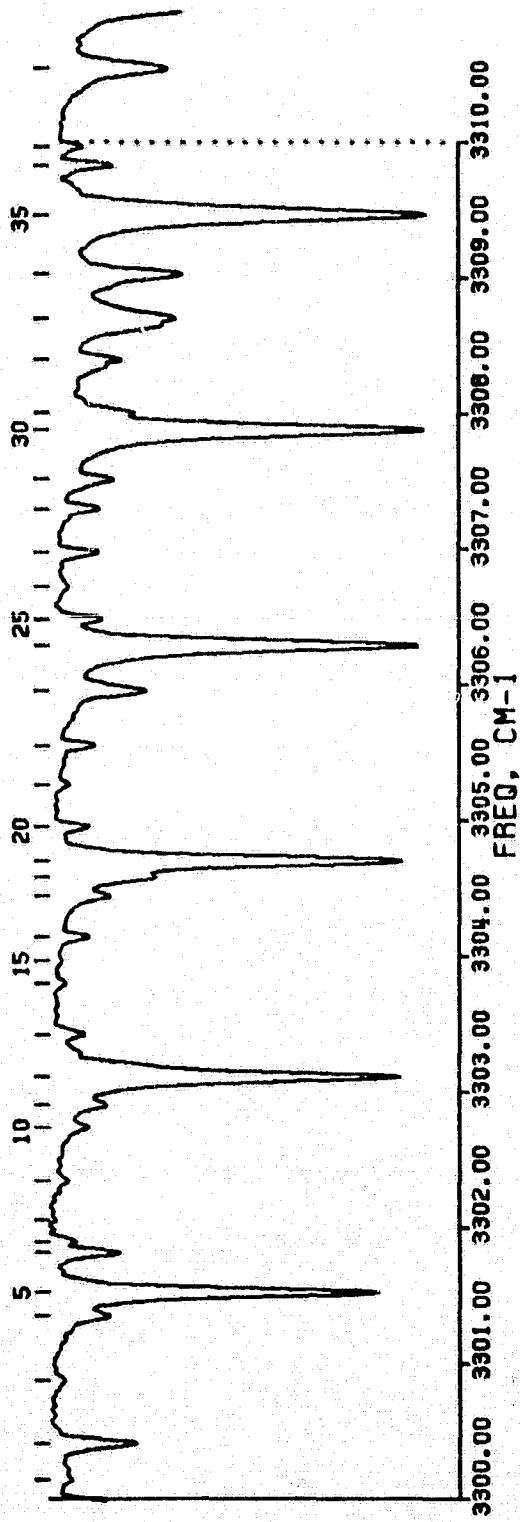
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3282.163	3282.331	3282.868	3283.060	3283.443	10
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3285.048	3285.547	3285.881	3286.118	3286.676	20
3287.150	3287.375	3288.483	3288.750	3288.866	25
3289.872	3290.345	3290.596	3291.360	3291.811	30
3291.948	3292.510	3292.817	3293.093	3293.268	35
3293.546	3294.233	3294.716	3295.144	3295.748	40
3296.156	3296.465	3296.740	3296.883	3297.186	45
3297.334	3297.580	3297.942	3298.108	3298.335	50
3298.533	3298.665	3298.850	3299.003	3299.393	55
3299.928	3300.140	3300.409	3300.871		60

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3300.140	3300.410	3300.871	3301.343	3301.522	5
3301.812	3301.893	3302.053	3302.338	3302.731	10
3302.901	3303.113	3303.418	3303.800	3303.966	15
3304.138	3304.440	3304.580	3304.701	3304.952	20
3305.261	3305.548	3305.955	3306.289	3306.476	25
3306.721	3306.972	3307.290	3307.510	3307.876	30
3308.000	3308.393	3308.699	3309.023	3309.462	35
3309.824	3309.962	3310.541	3311.046	3311.261	40
3311.531	3312.096	3312.627	3313.260	3313.633	45
3313.880	3314.210	3314.883	3315.151	3315.615	50
3315.791	3316.216	3316.390	3316.678	3317.070	55
3317.373	3317.677	3317.883	3318.189	3318.536	60
3318.784	3318.951	3319.386	3319.703	3320.008	65
3320.325	3320.529	3320.875			70

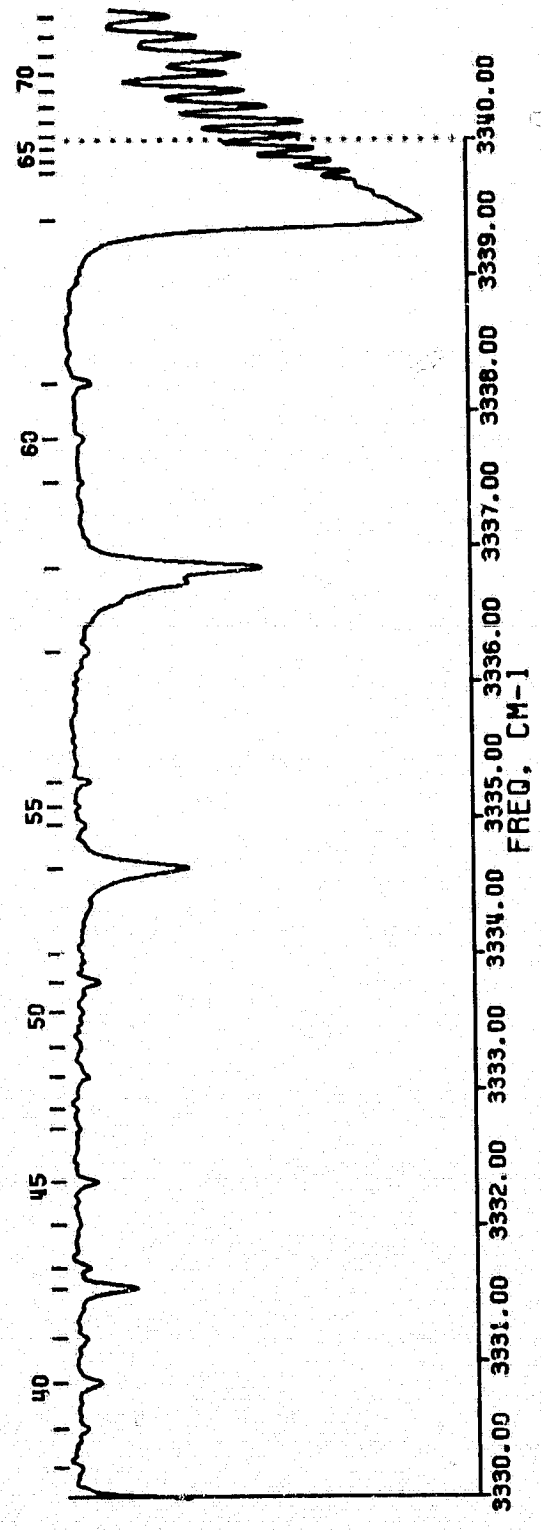
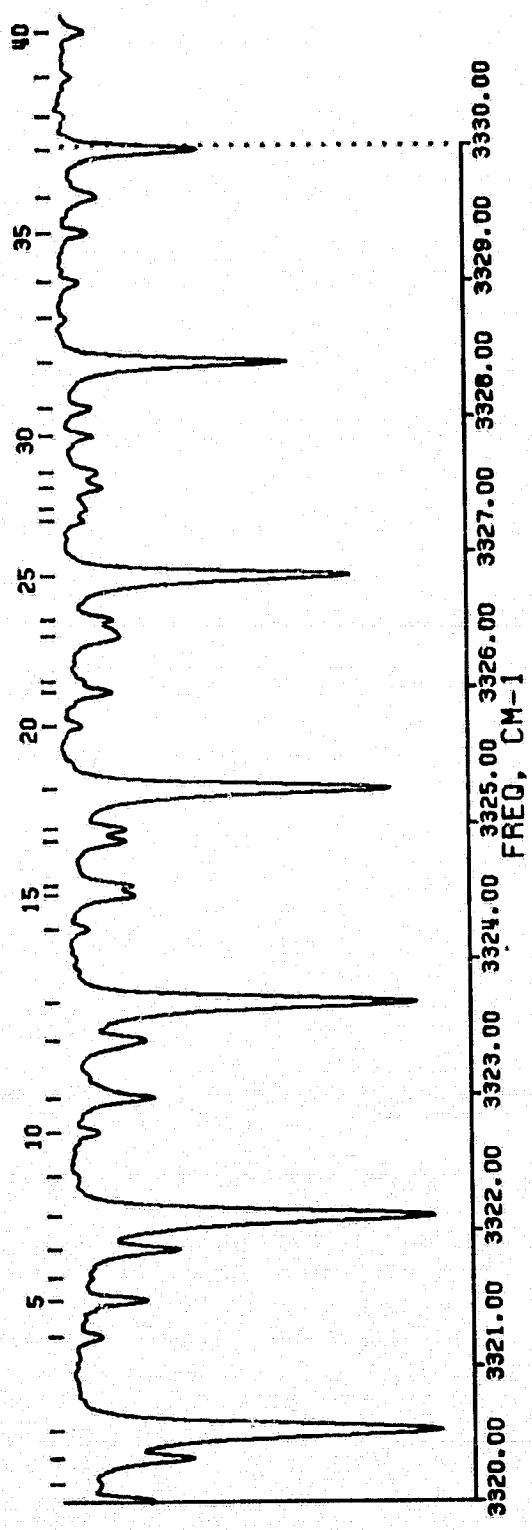
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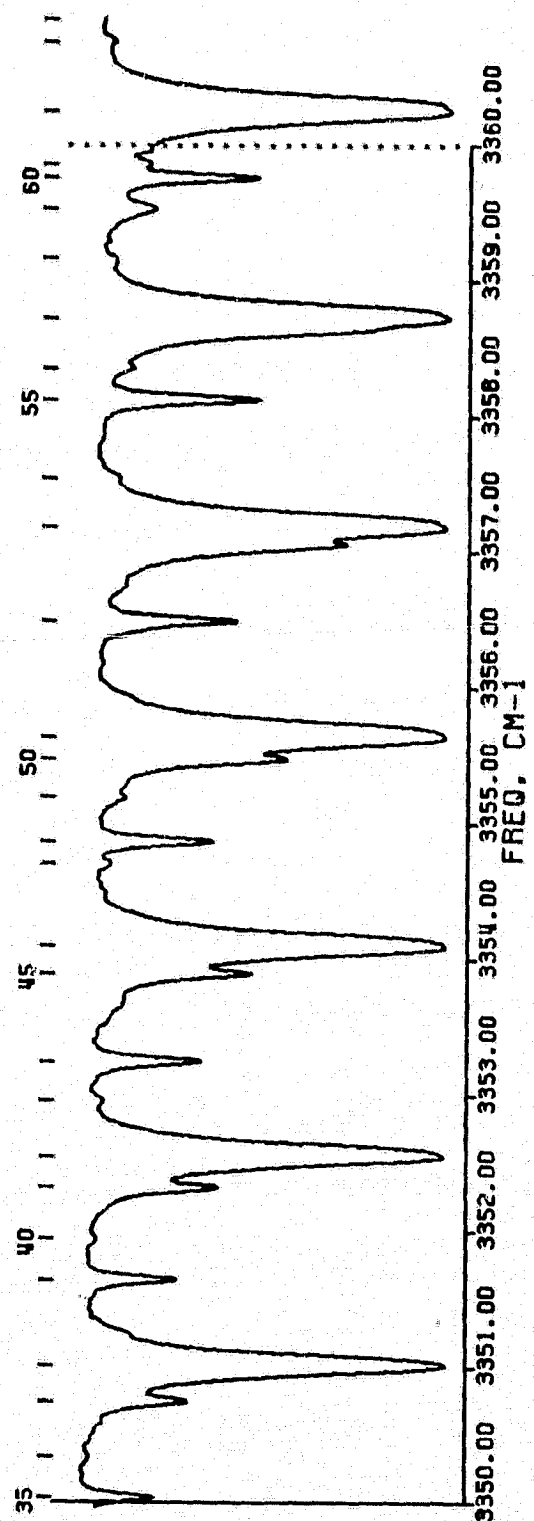
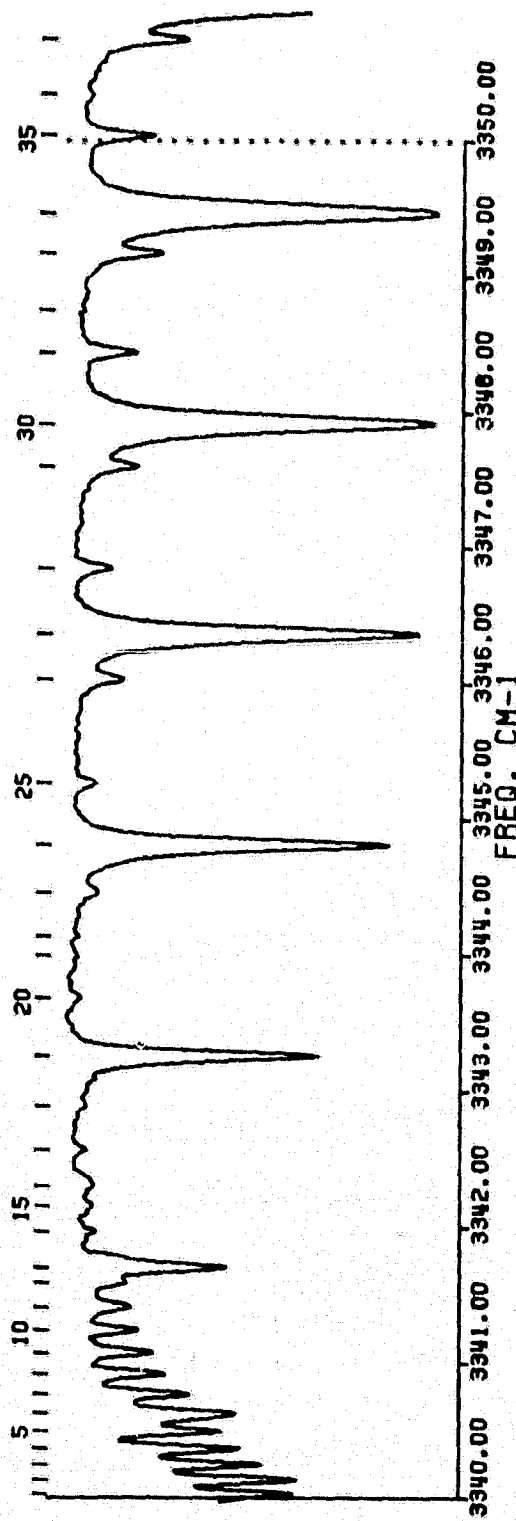
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3321.655	3321.863	3322.106	3322.403	3322.725	10
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3324.544	3324.875	3324.962	3325.256	3325.725	20
3325.970	3326.050	3326.384	3326.505	3326.830	25
3327.233	3327.323	3327.475	3327.588	3327.860	30
3328.066	3328.401	3328.730	3328.994	3329.356	35
3329.621	3329.970	3330.216	3330.510	3330.841	40
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3332.718	3332.863	3333.103	3333.323	3333.581	50
3333.797	3334.003	3334.636	3334.956	3335.094	55
3335.273	3336.230	3336.845	3337.476	3337.803	60
3338.208	3339.411	3339.761	3339.842	3339.933	65
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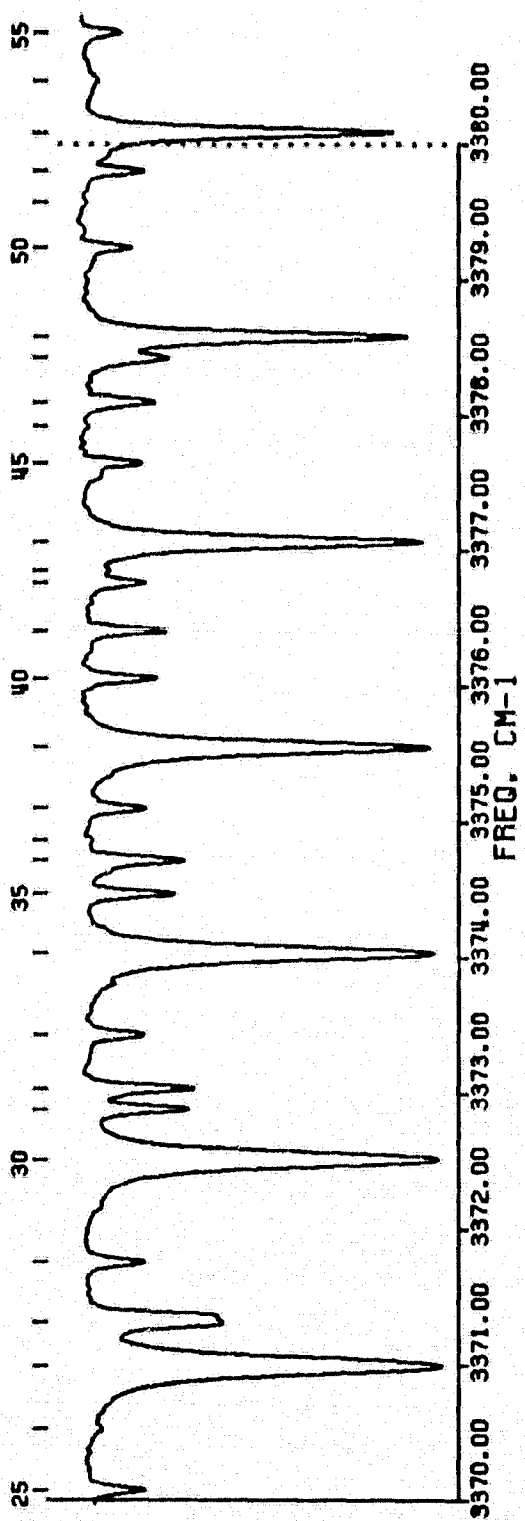
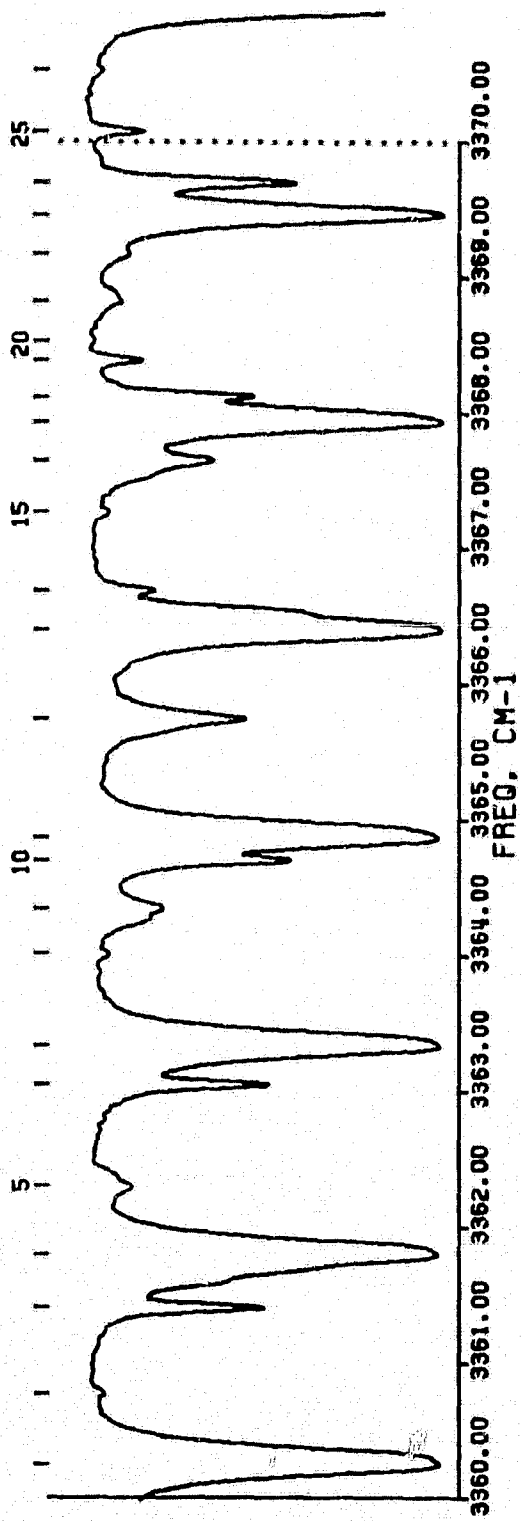




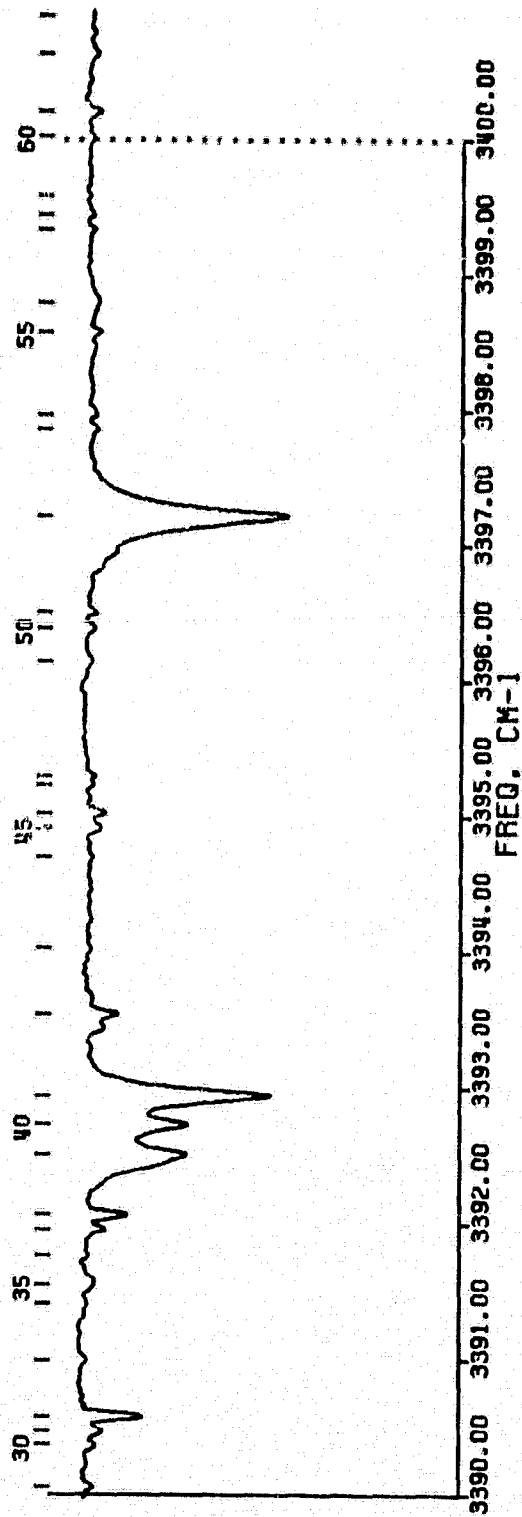
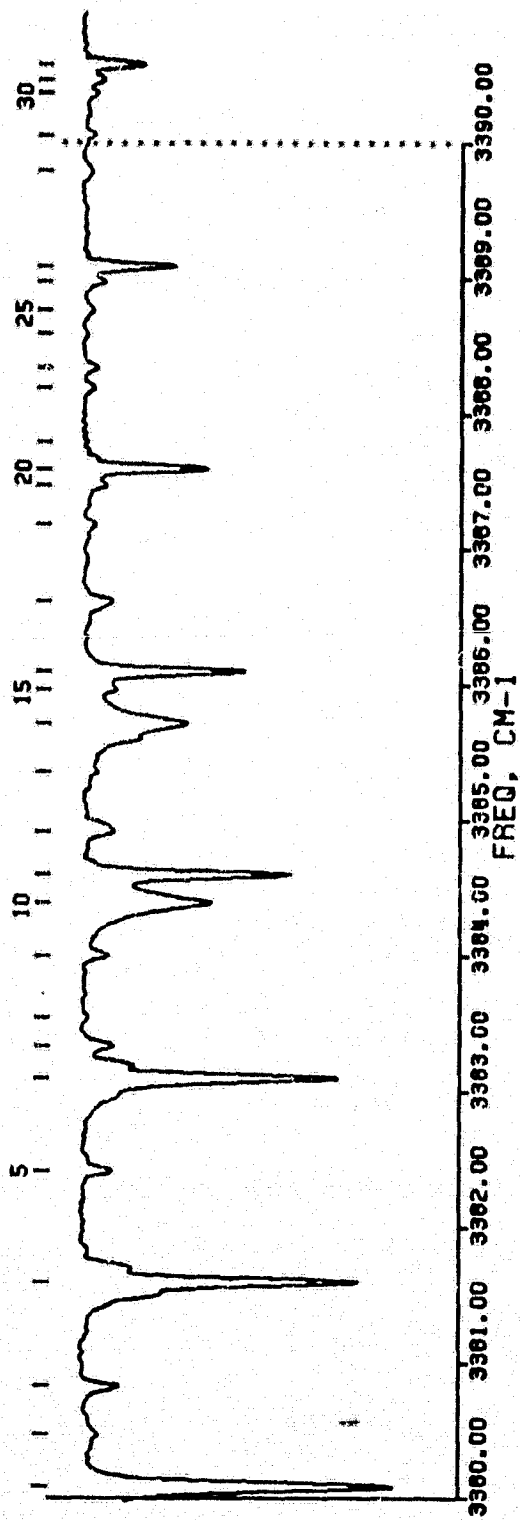
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3342.301	3342.565	3342.685	3343.256	3343.684	20
3343.996	3344.138	3344.463	3344.812	3345.268	25
3346.030	3346.365	3346.847	3347.599	3347.915	30
3348.439	3348.750	3349.170	3349.464	3350.038	35
3350.340	3350.744	3351.013	3351.641	3351.947	40
3352.323	3352.552	3352.961	3353.253	3353.897	45
3354.094	3354.706	3354.869	3355.193	3355.476	50
3355.637	3356.492	3357.181	3357.541	3358.124	55
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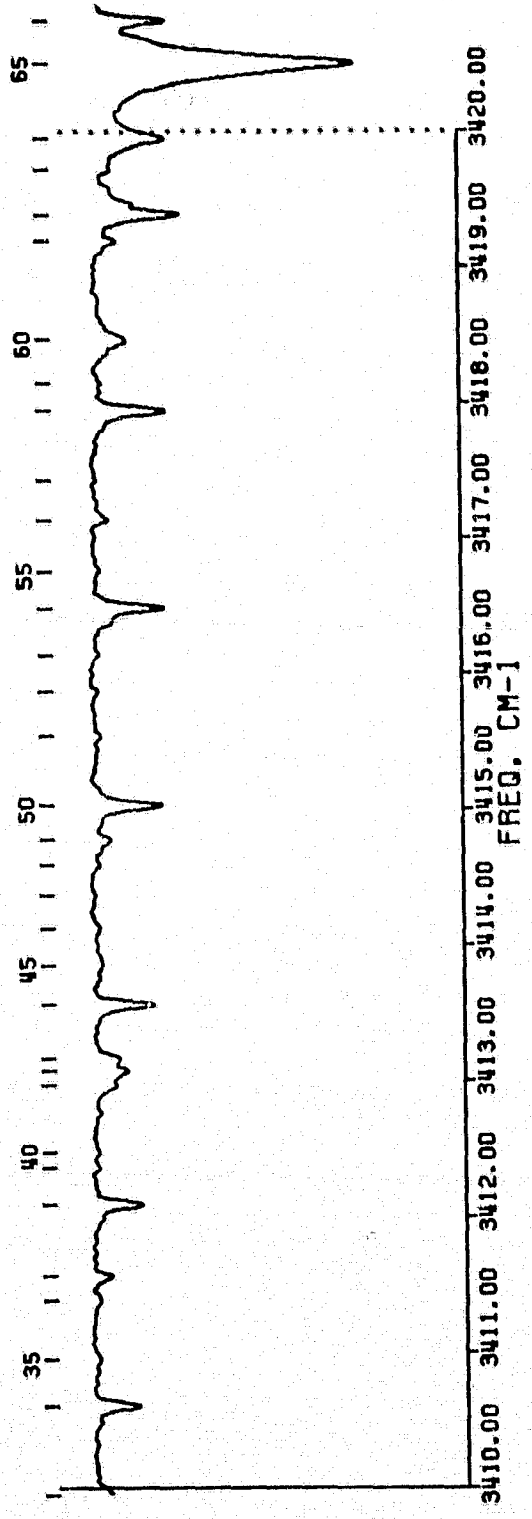
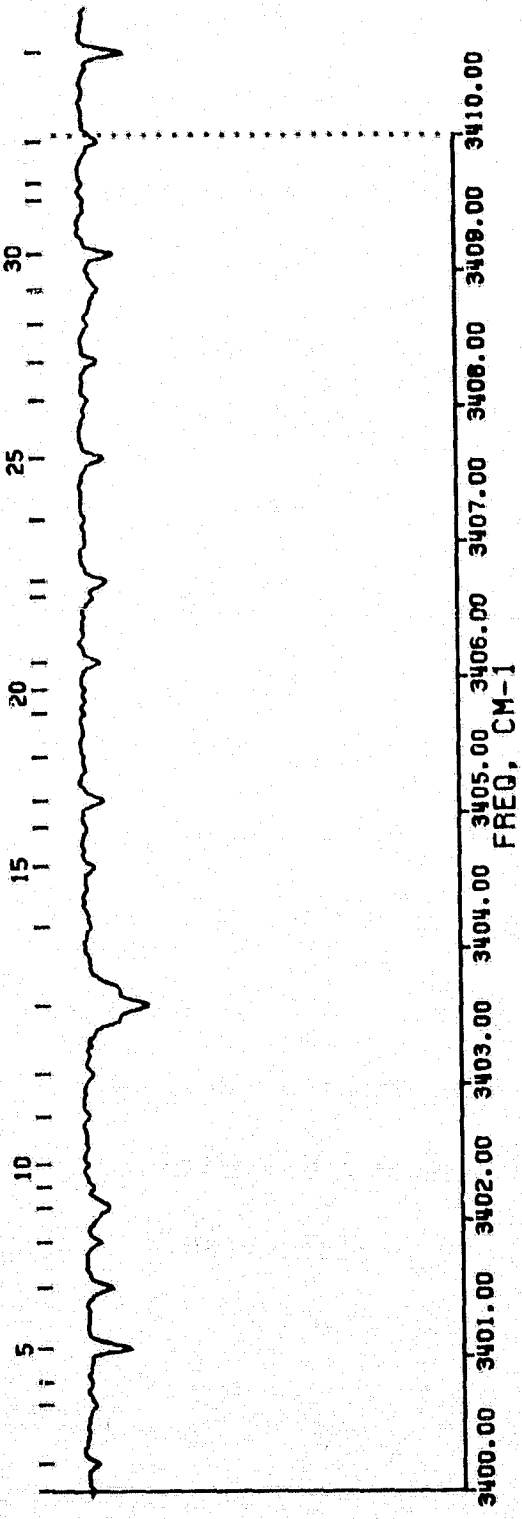
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3367.646	3367.933	3368.118	3368.387	3368.530	20
3368.819	3369.175	3369.461	3369.696	3370.075	25
3370.528	3370.988	3371.308	3371.758	3372.511	30
3372.882	3373.035	3373.430	3374.032	3374.472	35
3374.718	3374.867	3375.103	3375.550	3376.059	40
3376.407	3376.765	3376.858	3377.065	3377.646	45
3377.918	3378.096	3378.421	3378.576	3379.236	50
3379.575	3379.803	3380.085	3380.467	3380.826	55



3380.085	3380.472	3380.828	3381.592	3382.411	5
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3384.600	3384.918	3385.360	3385.715	3385.966	15
3386.101	3386.616	3387.186	3387.471	3387.593	20
3387.796	3388.192	3388.338	3388.526	3388.764	25
3388.974	3389.088	3389.797	3390.057	3390.370	30
3390.470	3390.578	3390.991	3391.411	3391.550	35
3391.765	3391.956	3392.066	3392.510	3392.732	40
3392.945	3393.546	3394.034	3394.706	3394.923	45
3395.031	3395.239	3395.300	3396.151	3396.396	50
3396.510	3397.220	3397.864	3397.968	3398.578	55
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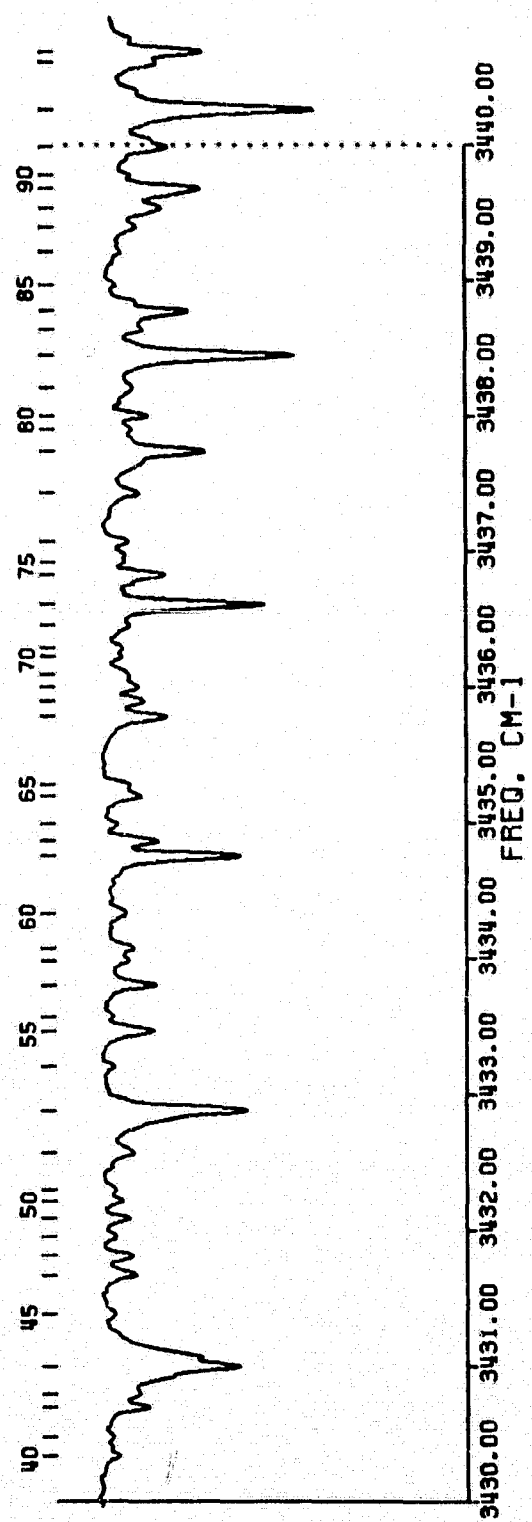
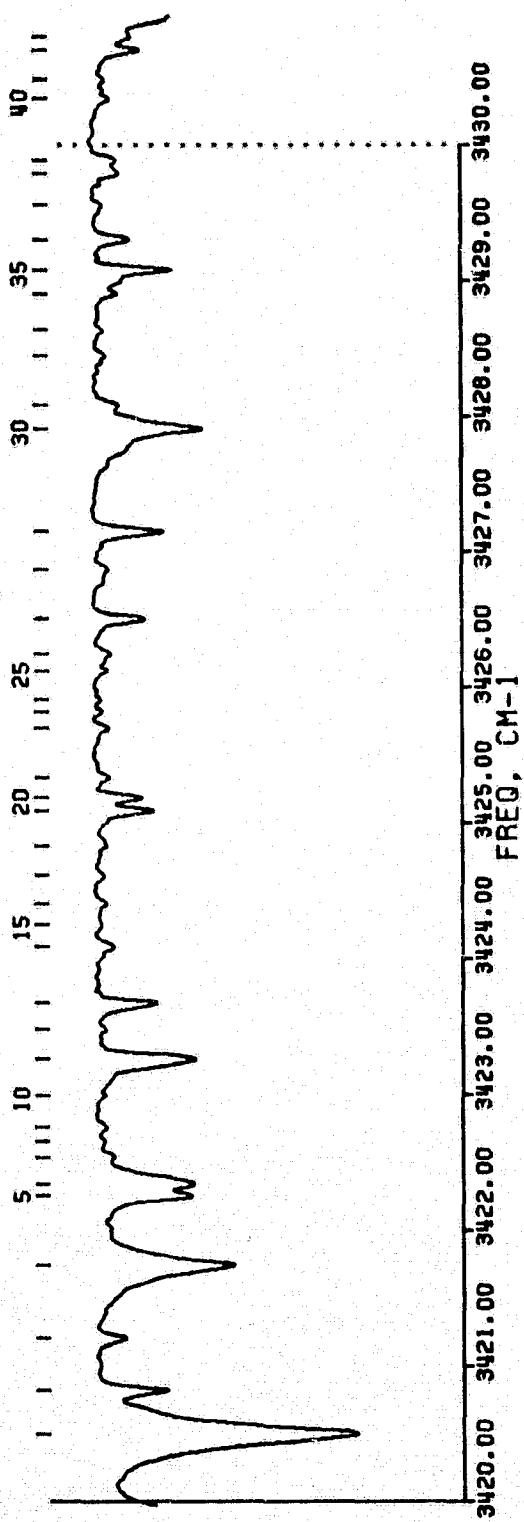


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3402.763	3403.078	3403.581	3404.159	3404.606	15
3404.894	3405.091	3405.411	3405.734	3405.912	20
3406.113	3406.593	3406.713	3407.165	3407.620	25
3408.045	3408.326	3408.603	3408.859	3409.121	30
3409.517	3409.641	3409.948	3410.605	3410.949	35
3411.381	3411.565	3412.088	3412.361	3412.475	40
3412.967	3413.075	3413.163	3413.562	3413.855	45
3414.128	3414.370	3414.596	3414.786	3415.031	50
3415.544	3415.873	3416.140	3416.485	3416.756	55
3417.138	3417.431	3417.939	3418.141	3418.463	60
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3420.818					70

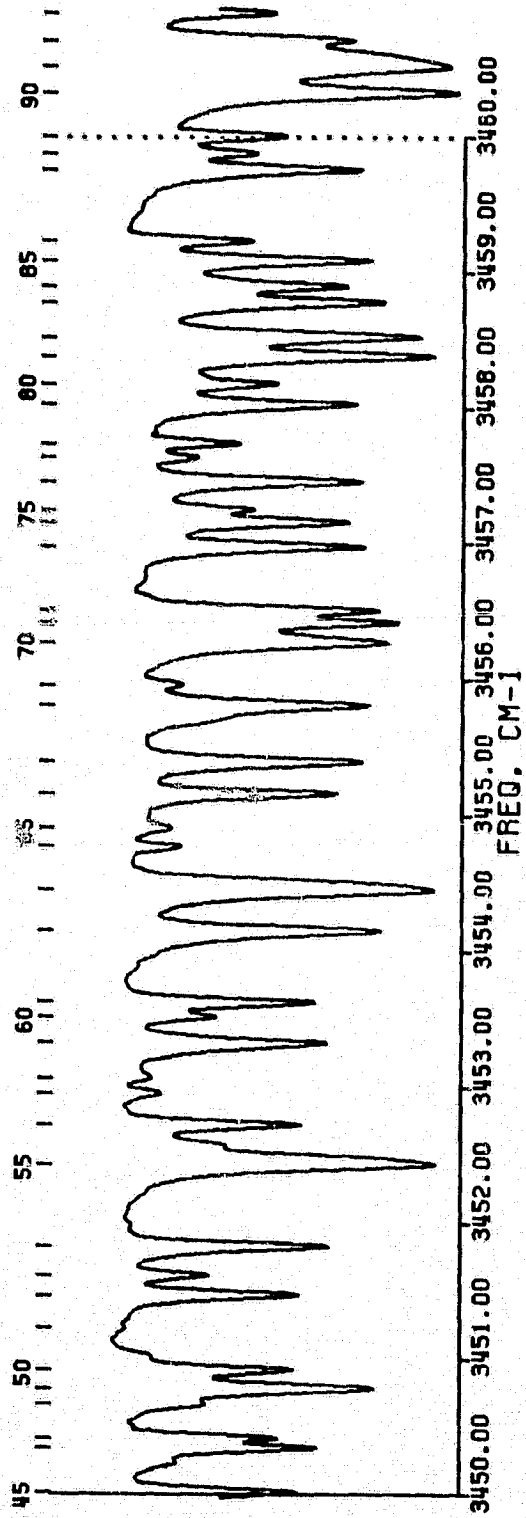
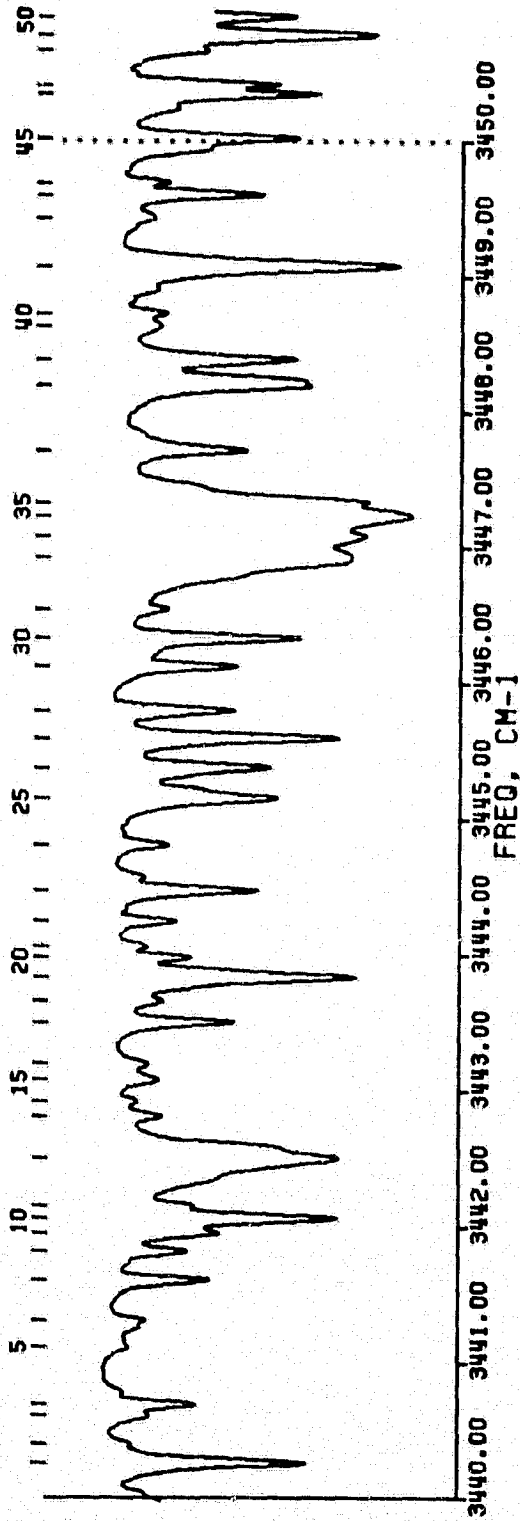




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3422.338	3422.538	3422.658	3422.757	3422.992	10
3423.263	3423.478	3423.675	3424.089	3424.255	15
3424.406	3424.613	3424.834	3425.093	3425.186	20
3425.333	3425.701	3425.822	3425.911	3426.123	25
3426.247	3426.505	3426.869	3427.146	3427.906	30
3428.079	3428.444	3428.630	3428.901	3429.075	35
3429.300	3429.556	3429.791	3429.886	3430.340	40
3430.481	3430.698	3430.796	3430.996	3431.382	45
3431.670	3431.812	3431.953	3432.086	3432.213	50
3432.295	3432.571	3432.882	3433.205	3433.470	55
3433.575	3433.806	3433.987	3434.078	3434.337	60
3434.756	3434.865	3434.991	3435.198	3435.280	65
3435.781	3435.896	3436.003	3436.090	3436.225	70
3436.288	3436.453	3436.609	3436.828	3436.921	75
3437.070	3437.426	3437.738	3437.901	3437.998	80
3438.206	3438.445	3438.635	3438.771	3438.962	85
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3439.983	3440.258	3440.609	3440.685		95

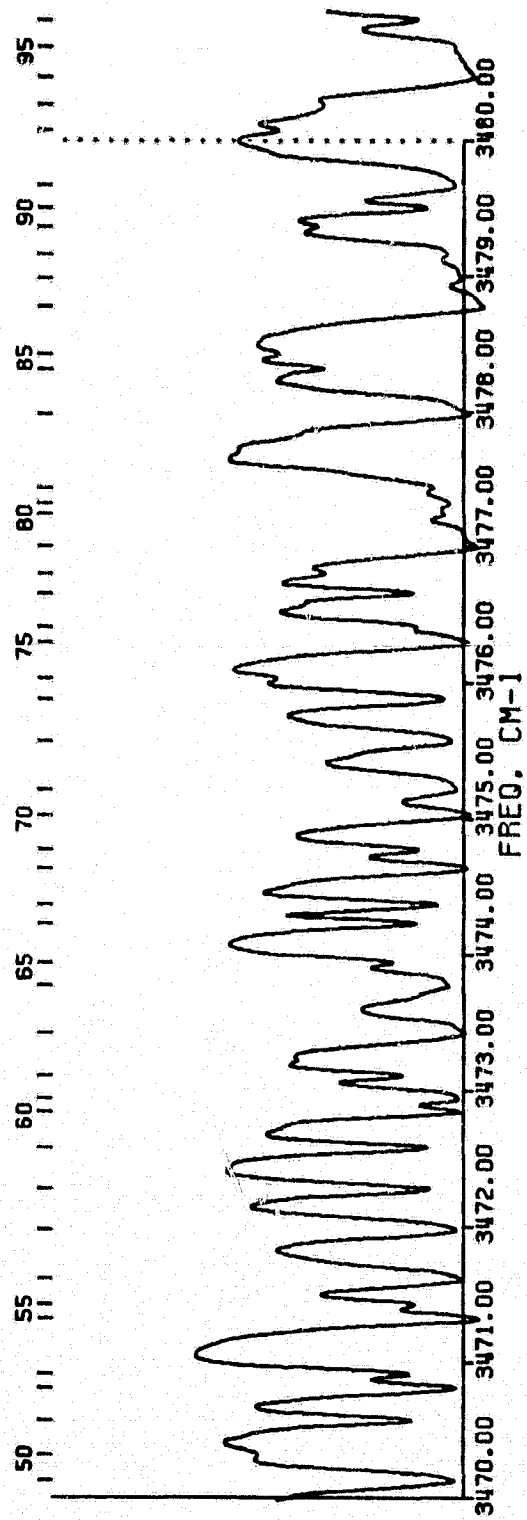
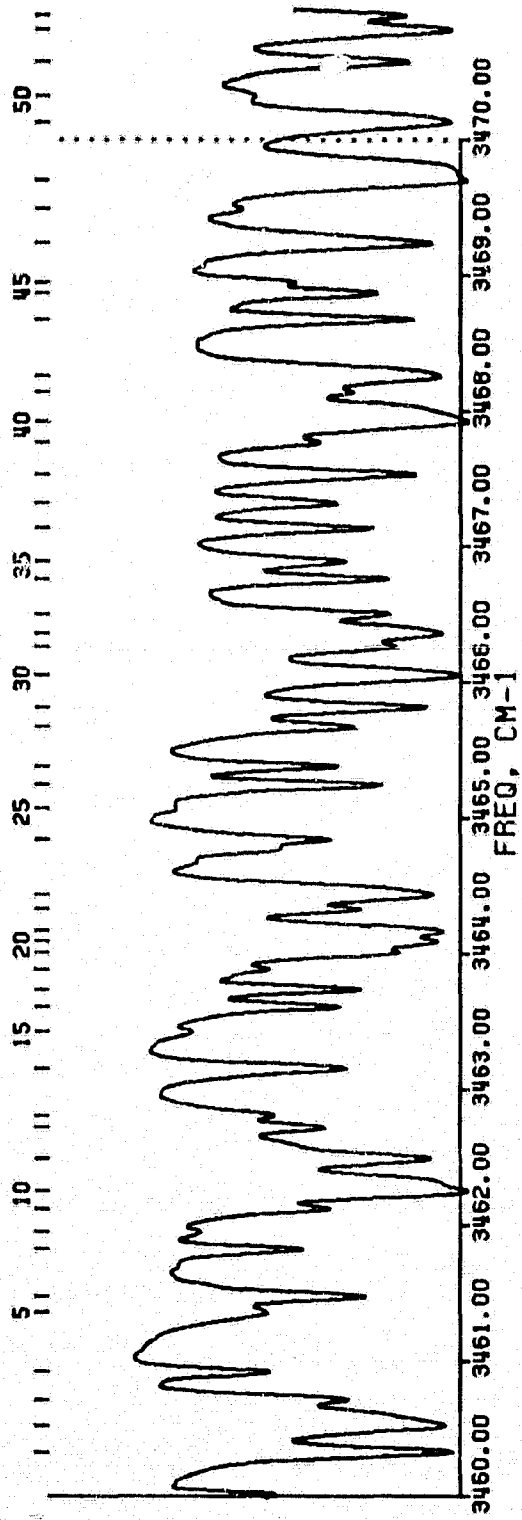


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3443.200	3443.505	3443.661	3443.838	3443.982	20
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3445.381	3445.598	3445.799	3446.126	3446.335	30
3446.550	3446.931	3447.089	3447.235	3447.333	35
3447.719	3448.197	3448.387	3448.633	3448.723	40
3449.075	3449.429	3449.601	3449.691	3450.018	45
3450.345	3450.414	3450.668	3450.781	3450.917	50
3451.228	3451.468	3451.614	3451.828	3452.434	55
3452.723	3452.955	3453.070	3453.325	3453.517	60
3453.626	3454.150	3454.453	3454.773	3454.910	65
3455.163	3455.396	3455.811	3455.963	3456.274	70
3456.421	3456.510	3456.980	3457.159	3457.250	75
3457.458	3457.637	3457.740	3458.029	3458.180	80
3458.384	3458.524	3458.781	3458.900	3459.088	85
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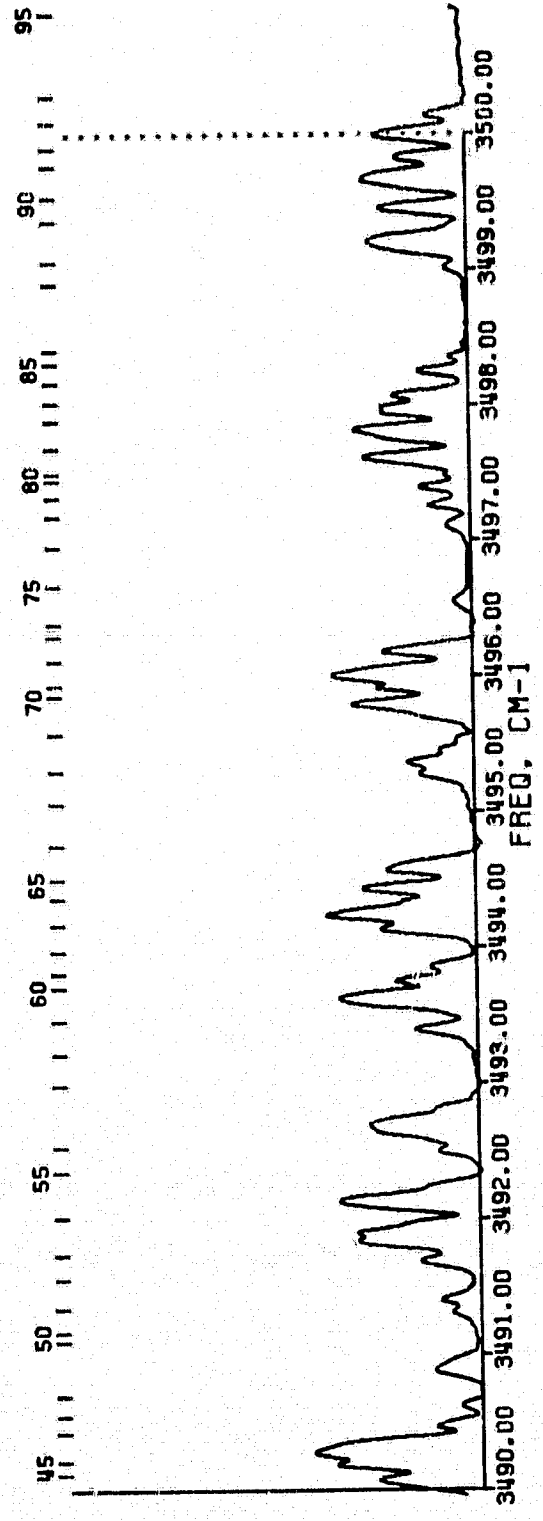
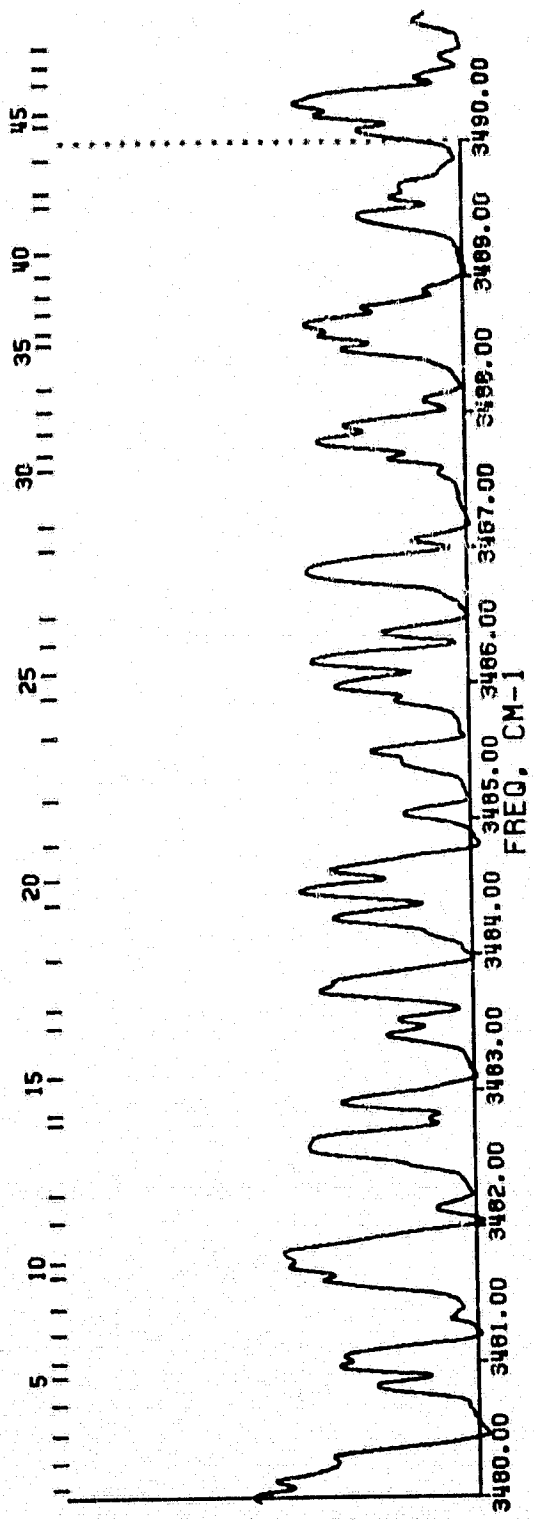


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3462.488	3462.715	3462.803	3463.155	3463.423	15
3463.608	3463.735	3463.882	3464.009	3464.090	20
3464.164	3464.330	3464.434	3464.840	3465.067	25
3465.242	3465.381	3465.670	3465.814	3466.053	30
3466.262	3466.359	3466.500	3466.760	3466.888	35
3467.132	3467.316	3467.528	3467.767	3467.922	40
3468.136	3468.251	3468.670	3468.863	3468.940	45
3469.232	3469.486	3469.700	3470.126	3470.317	50
3470.571	3470.808	3470.912	3471.317	3471.423	55
3471.610	3471.974	3472.275	3472.580	3472.842	60
3472.944	3473.109	3473.428	3473.772	3473.942	65
3474.231	3474.368	3474.636	3474.775	3475.031	70
3475.220	3475.572	3475.883	3476.034	3476.300	75
3476.411	3476.663	3476.807	3477.006	3477.246	80
3477.325	3477.436	3477.983	3478.313	3478.426	85
3478.773	3478.981	3479.161	3479.361	3479.500	90
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3480.889					100

244



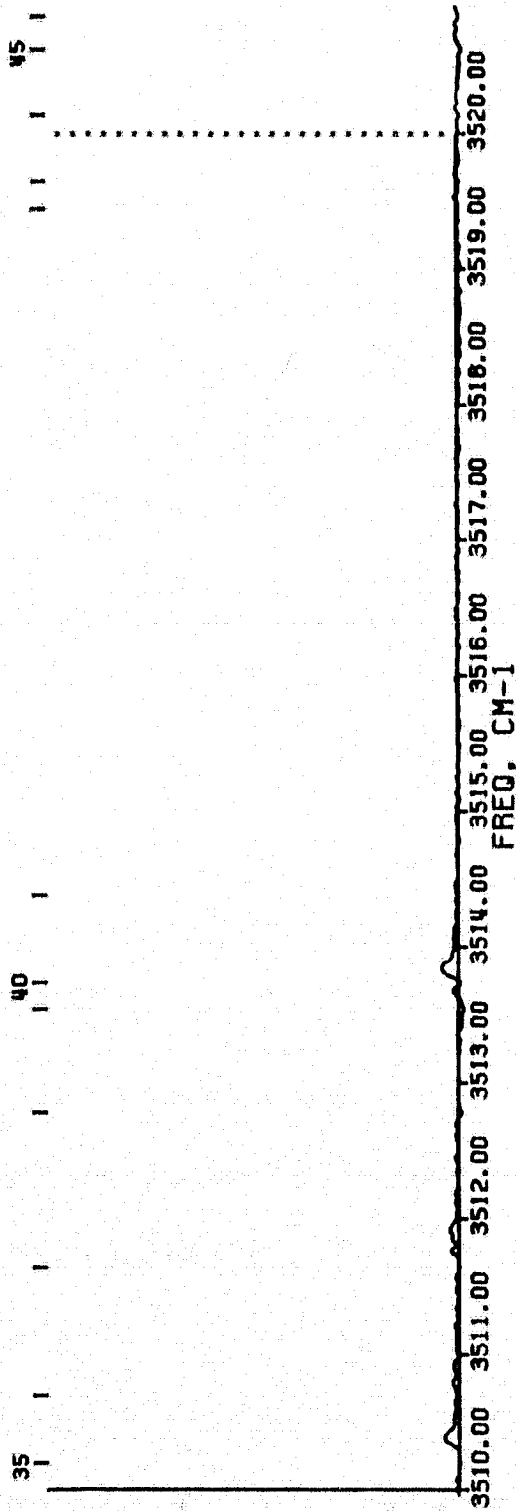
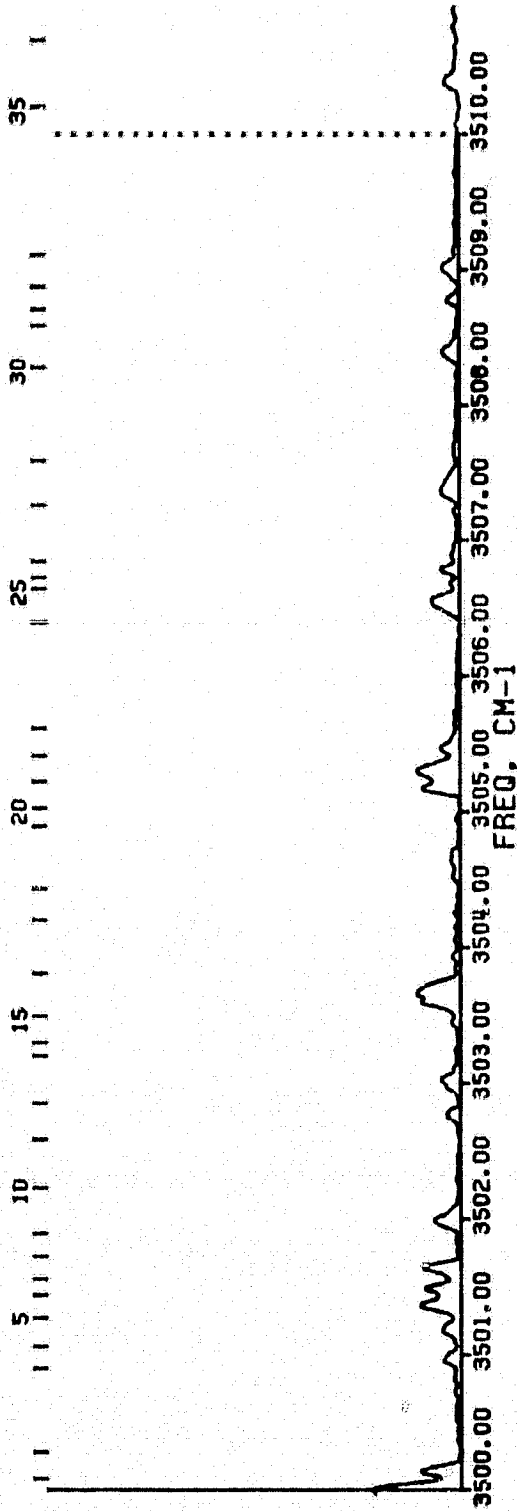
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3483.466	3483.599	3483.973	3484.373	3484.559	20
3484.817	3485.145	3485.609	3485.901	3486.081	25
3486.294	3486.495	3486.996	3487.172	3487.583	30
3487.692	3487.856	3488.020	3488.187	3488.505	35
3488.590	3488.738	3488.863	3489.020	3489.189	40
3489.528	3489.625	3489.873	3490.125	3490.218	45
3490.429	3490.556	3490.700	3491.099	3491.174	50
3491.350	3491.562	3491.743	3492.021	3492.352	55
3492.535	3492.993	3493.222	3493.468	3493.712	60
3493.816	3493.975	3494.171	3494.370	3494.511	65
3494.765	3495.068	3495.311	3495.581	3495.863	70
3495.938	3496.120	3496.302	3496.395	3496.676	75
3496.959	3497.186	3497.324	3497.448	3497.501	80
3497.690	3497.890	3498.028	3498.173	3498.314	85
3498.410	3498.897	3499.061	3499.364	3499.538	90
3499.769	3499.898	3500.089	3500.286	3500.896	95





3500.089	3500.286	3500.896	3501.062	3501.266	5
3501.436	3501.555	3501.723	3501.893	3502.230	10
3502.581	3502.851	3503.198	3503.298	3503.492	15
3503.809	3504.205	3504.430	3504.894	3505.031	20
3505.226	3505.413	3505.615	3506.393	3506.646	25
3506.727	3506.850	3507.264	3507.591	3508.278	30
3508.586	3508.701	3508.875	3509.108	3510.200	35
3510.693	3511.641	3512.783	3513.542	3513.738	40
3514.381	3519.444	3519.649	3520.138	3520.624	45
3520.866					50

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3520.624	3523.598	3525.266	3525.752	3527.312	5
3531.461	3533.853	3535.230	3540.594	3540.864	10



230

5

3520.00 3521.00 3522.00 3523.00 3524.00 3525.00 3526.00 3527.00 3528.00 3529.00 3530.00  
FREQ, CM-1

10

3530.00 3531.00 3532.00 3533.00 3534.00 3535.00 3536.00 3537.00 3538.00 3539.00 3540.00  
FREQ, CM-1

501

3540.594    3540.864    3540.956    3541.775    3541.895    5  
3542.702    3553.125    3560.880                10

C-4

247

5  
||

3540.00 3541.00 3542.00 3543.00 3544.00 3545.00 3546.00 3547.00 3548.00 3549.00 3550.00  
FREQ, CM-1

3550.00 3551.00 3552.00 3553.00 3554.00 3555.00 3556.00 3557.00 3558.00 3559.00 3560.00  
FREQ, CM-1

3561.576

3564.305

3564.439

3565.753

3580.911

5

2004

1000

3560.00 3561.00 3562.00 3563.00 3564.00 3565.00 3566.00 3567.00 3568.00 3569.00 3570.00  
FREQ, CM-1

3570.00 3571.00 3572.00 3573.00 3574.00 3575.00 3576.00 3577.00 3578.00 3579.00 3580.00  
FREQ, CM-1

5 1



3587.325      3593.371      3600.484      3600.919      5

296

3580.00	3581.00	3582.00	3583.00	3584.00	3585.00	3586.00	3587.00	3588.00	3589.00	3590.00
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FREQ, CM-1

3590.00	3591.00	3592.00	3593.00	3594.00	3595.00	3596.00	3597.00	3598.00	3599.00	3600.00
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FREQ, CM-1

29

3611.946 3620.717

5

548

3600.00 3601.00 3602.00 3603.00 3604.00 3605.00 3606.00 3607.00 3608.00 3609.00 3610.00  
FREQ, CM-1

3610.00 3611.00 3612.00 3613.00 3614.00 3615.00 3616.00 3617.00 3618.00 3619.00 3620.00  
FREQ, CM-1

247

3631.812 3640.943

5

70

3620.00 3621.00 3622.00 3623.00 3624.00 3625.00 3626.00 3627.00 3628.00 3629.00 3630.00  
FREQ, CM-1

3630.00 3631.00 3632.00 3633.00 3634.00 3635.00 3636.00 3637.00 3638.00 3639.00 3640.00  
FREQ, CM-1

5

3660.875

237

3640.00 3641.00 3642.00 3643.00 3644.00 3645.00 3646.00 3647.00 3648.00 3649.00 3650.00  
FREQ, CM-1

3650.00 3651.00 3652.00 3653.00 3654.00 3655.00 3656.00 3657.00 3658.00 3659.00 3660.00  
FREQ, CM-1

200



3663.806

3680.821

5

304

3660.00 3661.00 3662.00 3663.00 3664.00 3665.00 3666.00 3667.00 3668.00 3669.00 3670.00  
FREQ, CM-1

3670.00 3671.00 3672.00 3673.00 3674.00 3675.00 3676.00 3677.00 3678.00 3679.00 3680.00  
FREQ, CM-1

308

3684.976    3690.840    3692.844    3692.937    3699.436    5  
3700.919    10

234

3680.00 3681.00 3682.00 3683.00 3684.00 3685.00 3686.00 3687.00 3688.00 3689.00 3690.00  
FREQ, CM-1

5

3690.00 3691.00 3692.00 3693.00 3694.00 3695.00 3696.00 3697.00 3698.00 3699.00 3700.00  
FREQ, CM-1

307

3715.816    3719.264    3720.301    3720.738    3720.930    5

304

3700.00 3701.00 3702.00 3703.00 3704.00 3705.00 3706.00 3707.00 3708.00 3709.00 3710.00  
FREQ, CM-1

3710.00 3711.00 3712.00 3713.00 3714.00 3715.00 3716.00 3717.00 3718.00 3719.00 3720.00  
FREQ, CM-1

5  
1 1 1

3711

3720.301

3731.034

3740.866

5

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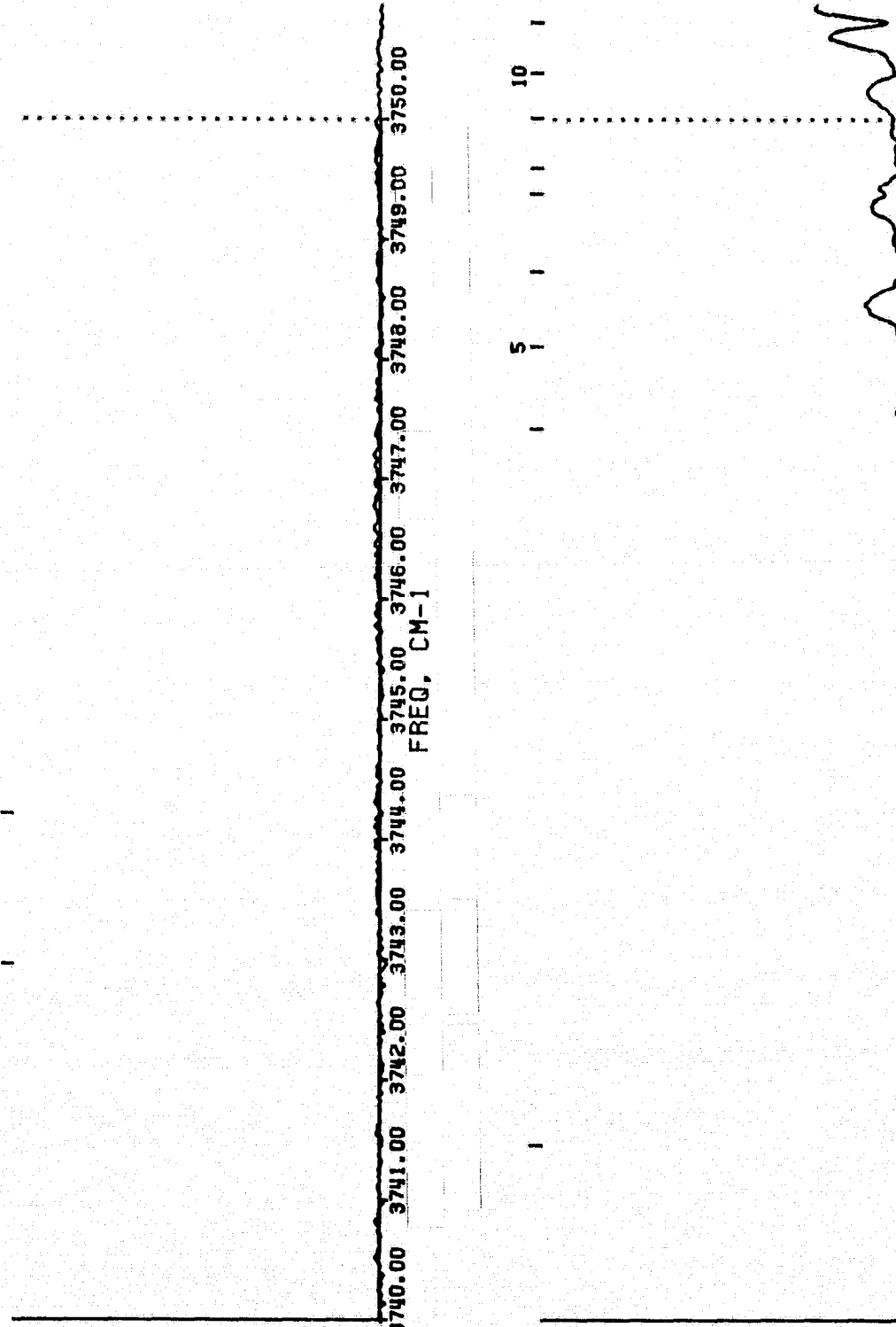
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FREQ, CM-1

3730.00 3731.00 3732.00 3733.00 3734.00 3735.00 3736.00 3737.00 3738.00 3739.00 3740.00  
FREQ, CM-1



3742.964	3744.218	3751.460	3757.425	3758.105	5
3758.730	3759.375	3759.593	3760.005	3760.385	10
3760.804					15

3740.00 3741.00 3742.00 3743.00 3744.00 3745.00 3746.00 3747.00 3748.00 3749.00 3750.00  
 FREQ, CM-1



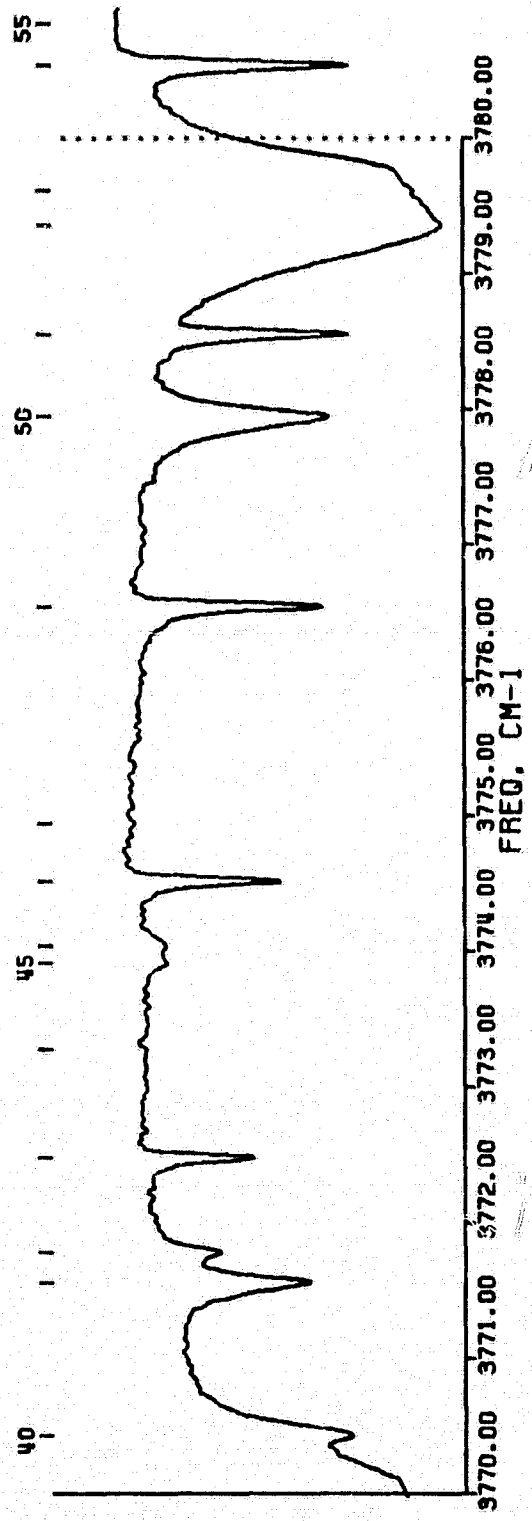
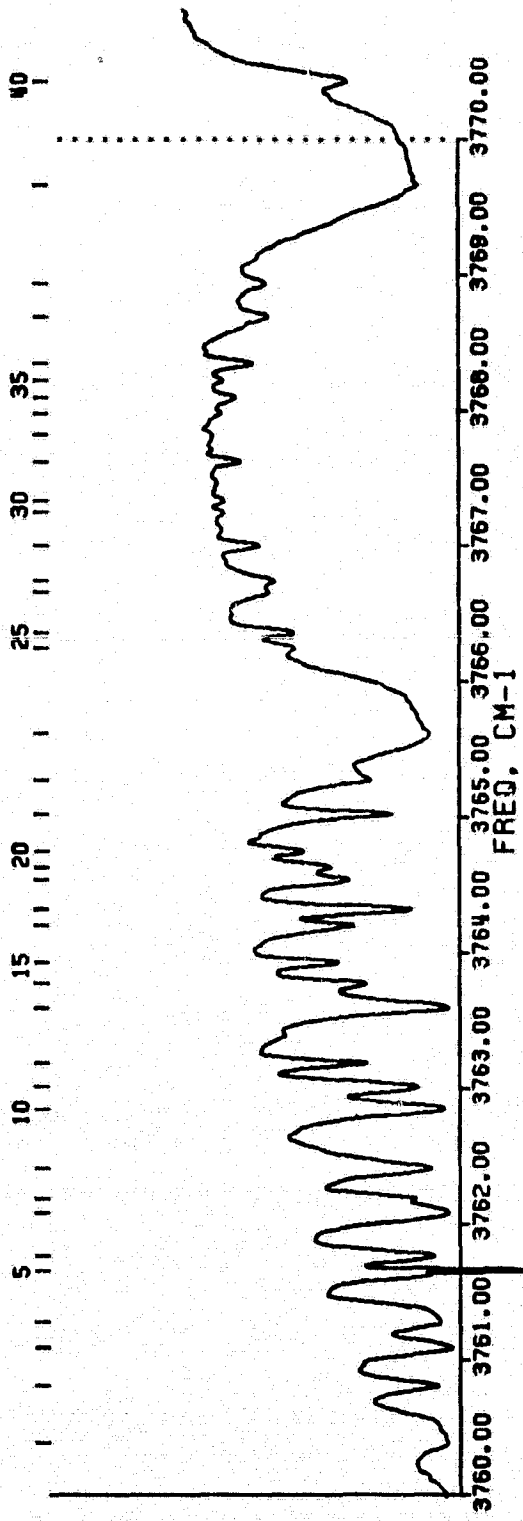
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 FREQ, CM-1

12

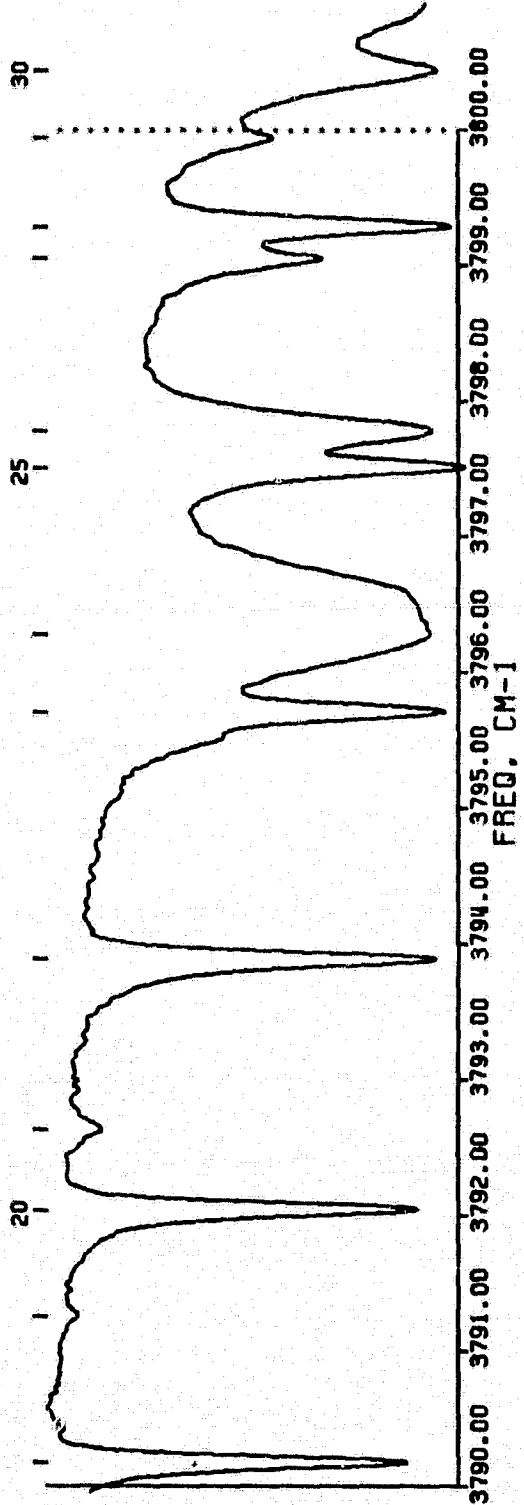
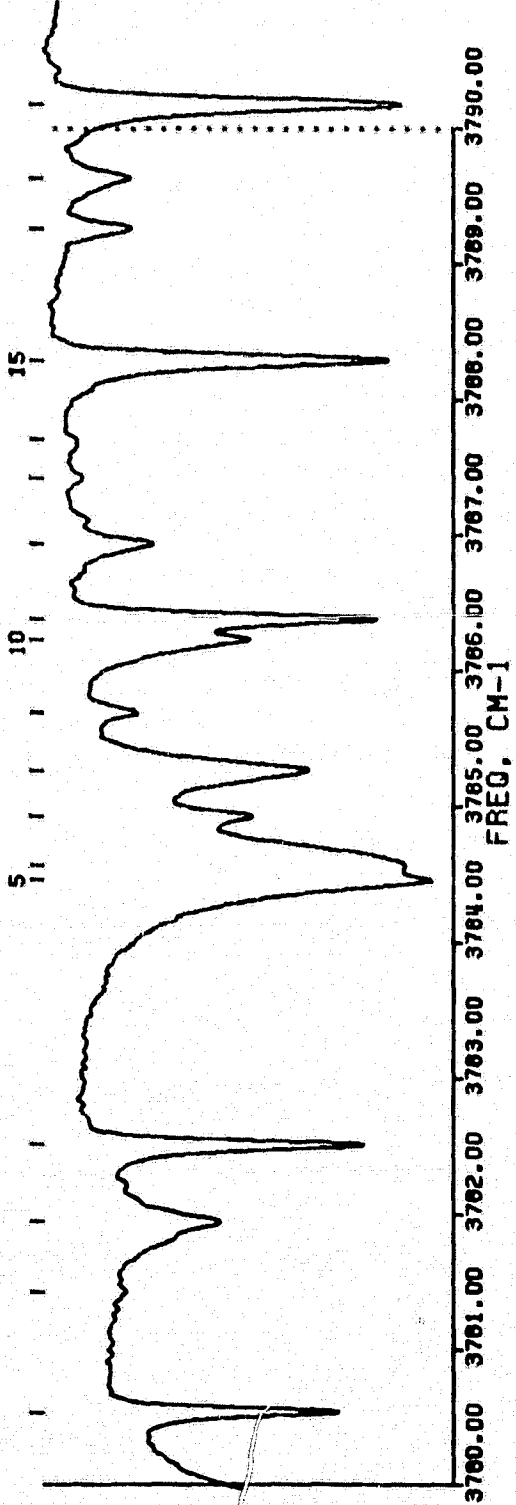
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3761.763	3762.080	3762.184	3762.408	3762.847	10
3763.010	3763.185	3763.596	3763.772	3763.930	15
3764.203	3764.320	3764.537	3764.631	3764.750	20
3765.022	3765.275	3765.620	3766.245	3766.360	25
3766.660	3766.740	3767.004	3767.244	3767.331	30
3767.620	3767.821	3767.978	3768.093	3768.219	35
3768.343	3768.691	3768.932	3769.663	3770.427	40
3771.558	3771.778	3772.478	3773.278	3773.915	45
3774.038	3774.518	3774.946	3776.543	3777.944	50
3778.550	3779.355	3779.611	3780.538	3780.843	55

3780



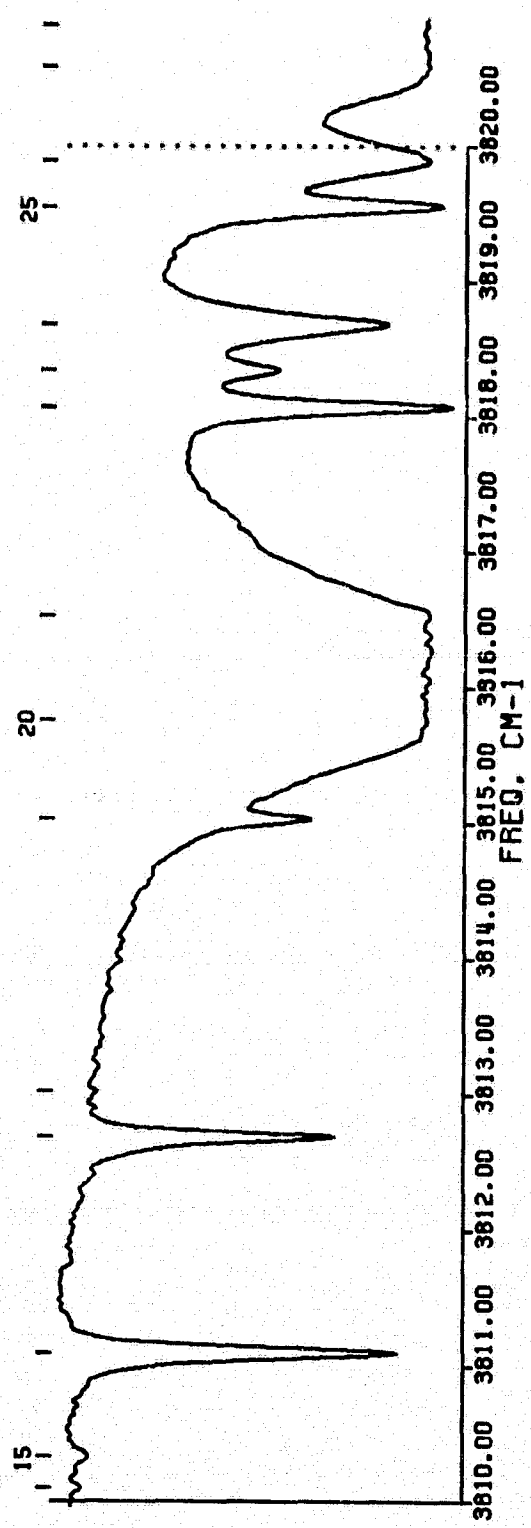
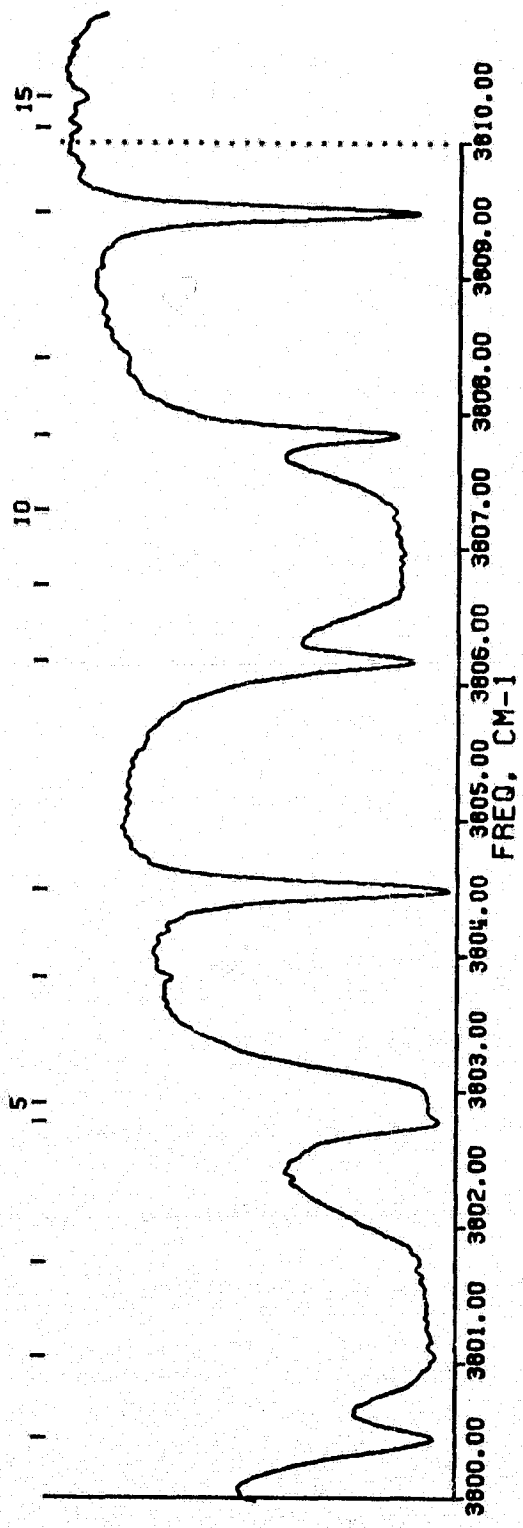
3780.537	3781.419	3781.940	3782.505	3784.459	5
3784.563	3784.930	3785.267	3785.692	3786.234	10
3786.383	3786.937	3787.423	3787.709	3788.290	15
3789.266	3789.637	3790.177	3791.258	3792.041	20
3792.631	3793.885	3795.710	3796.283	3797.510	25
3797.780	3799.050	3799.288	3799.941	3800.441	30

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3800.441	3801.042	3801.735	3802.775	3802.905	5
3803.836	3804.482	3806.171	3806.729	3807.280	10
3807.835	3808.401	3809.478	3810.103	3810.331	15
3811.095	3812.689	3813.025	3815.036	3815.761	20
3816.530	3818.071	3818.347	3818.683	3819.553	25
3819.892	3820.588	3820.891			30

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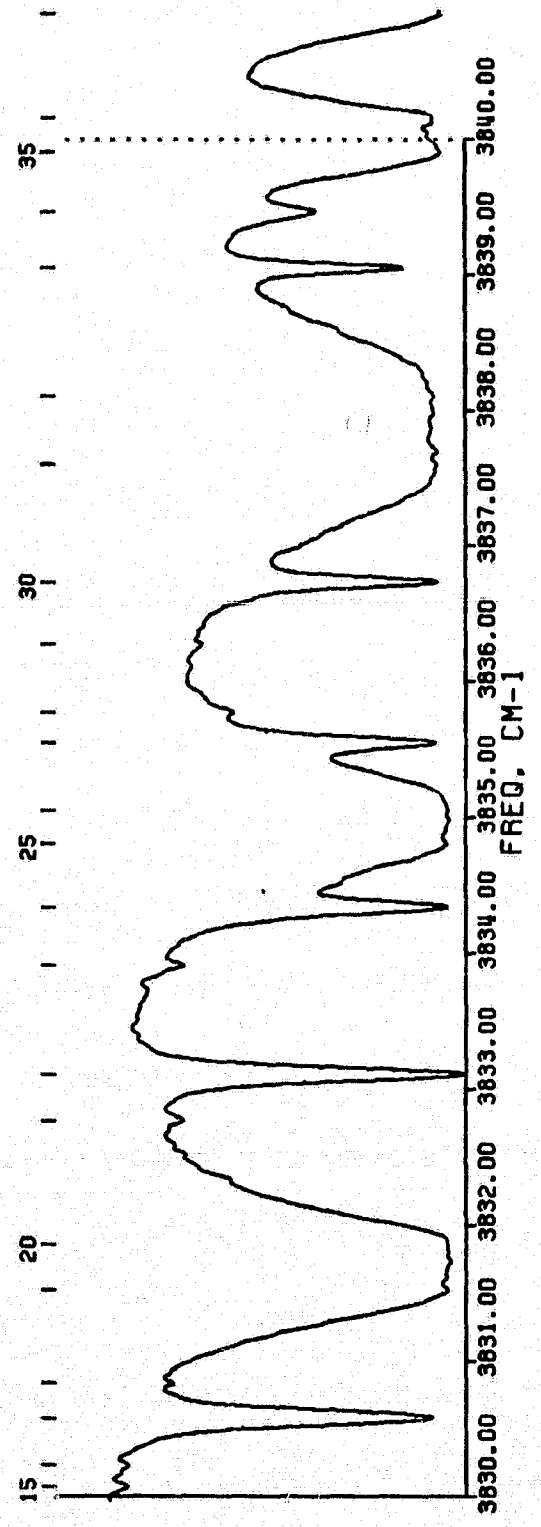
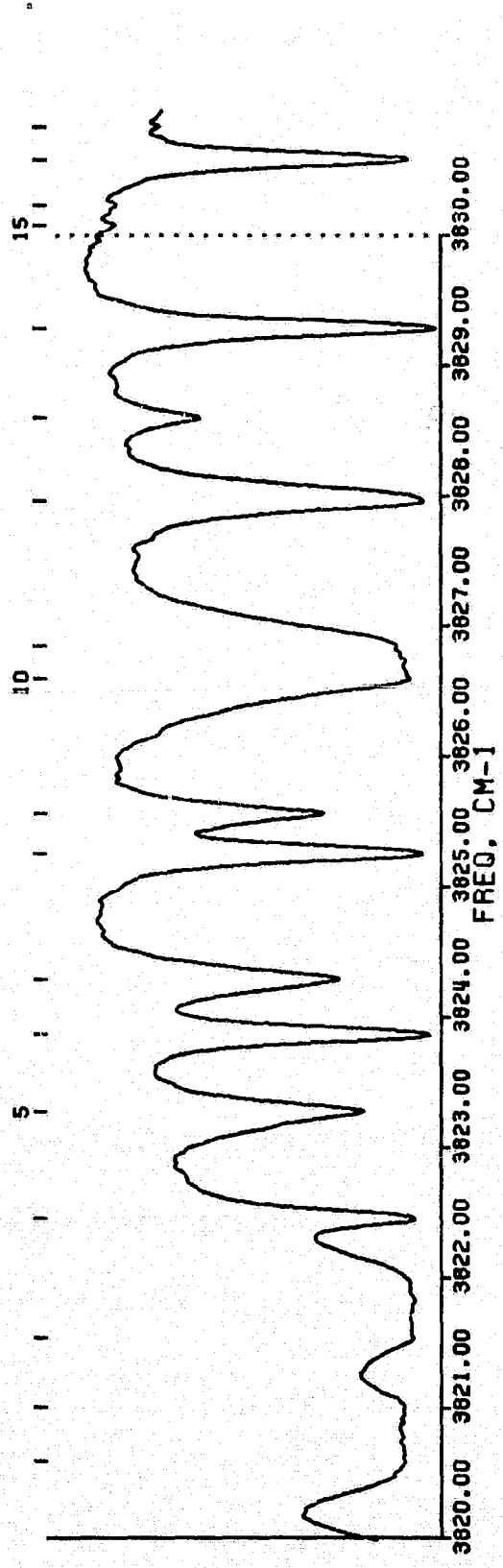


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3820.569	3821.006	3821.535	3822.450	3823.273	5
3823.863	3824.290	3825.250	3825.558	3826.593	10
3826.849	3827.961	3828.598	3829.284	3830.075	15
3830.231	3830.580	3830.833	3831.521	3831.854	20
3832.769	3833.111	3833.912	3834.342	3834.812	25
3835.058	3835.550	3835.774	3836.283	3836.737	30
3837.601	3838.106	3839.050	3839.469	3839.909	35
3840.161	3840.928				40

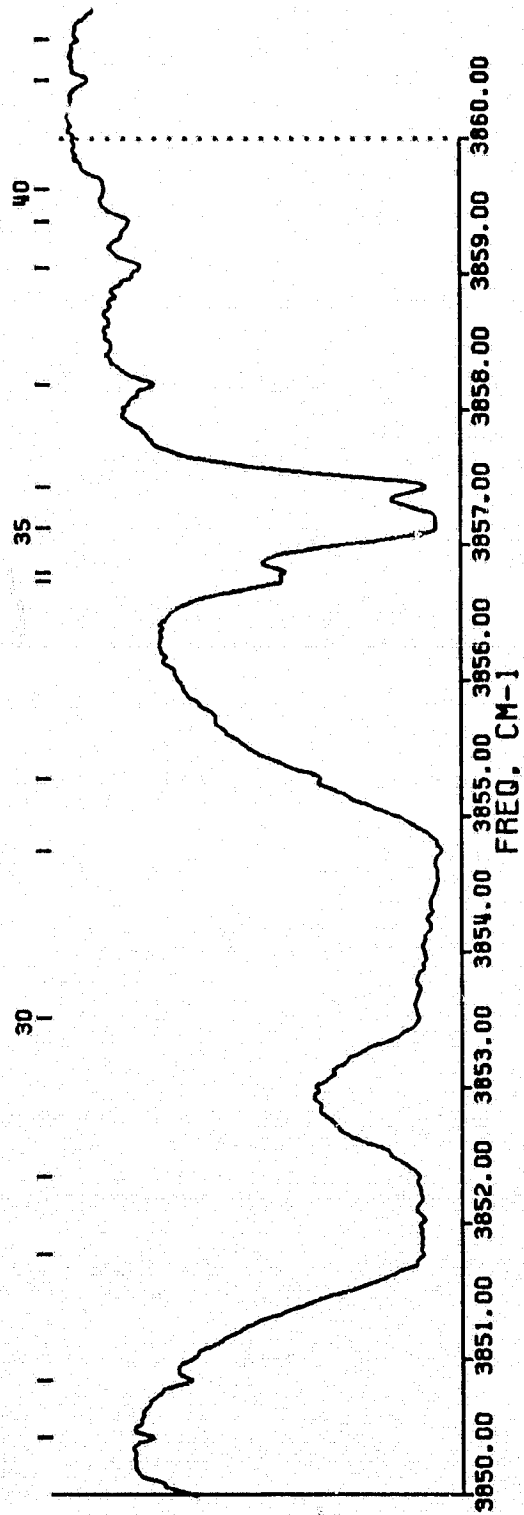
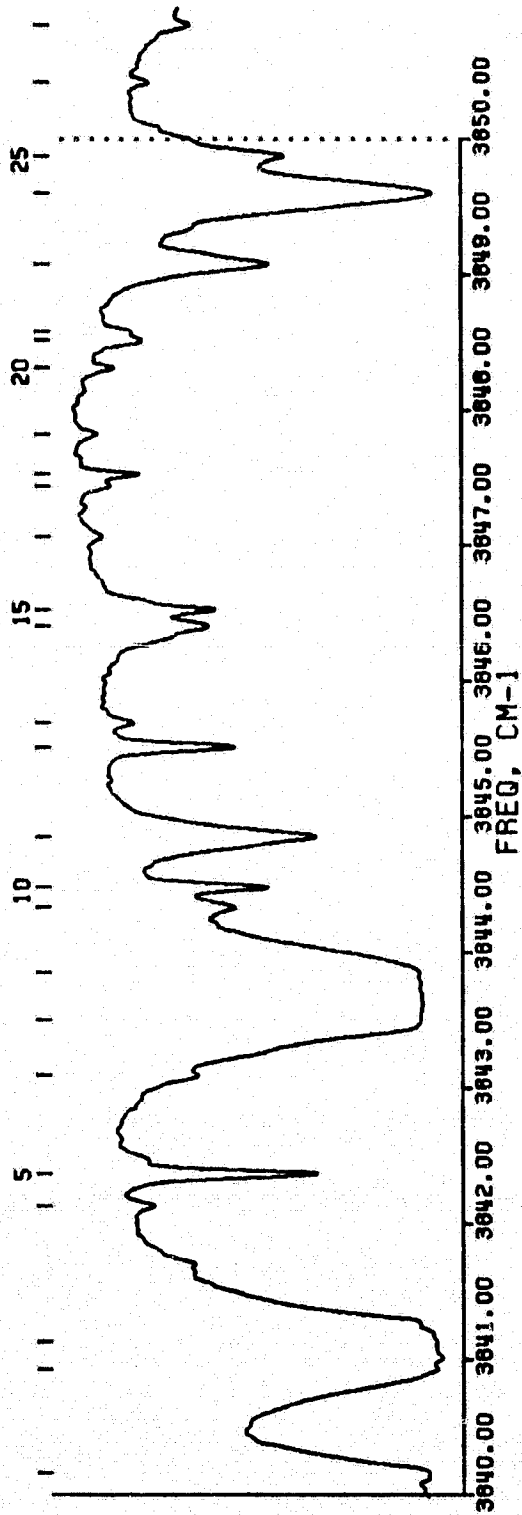
1320



321

3840.162	3840.928	3841.131	3842.130	3842.368	5
3843.094	3843.503	3843.850	3844.332	3844.480	10
3844.854	3845.513	3845.692	3846.406	3846.527	15
3847.068	3847.439	3847.524	3847.825	3848.309	20
3848.515	3848.575	3849.074	3849.600	3849.873	25
3850.419	3850.840	3851.773	3852.344	3853.518	30
3854.751	3855.279	3856.738	3856.803	3857.128	35
3857.428	3858.189	3859.049	3859.389	3859.628	40
3860.435	3860.731				45

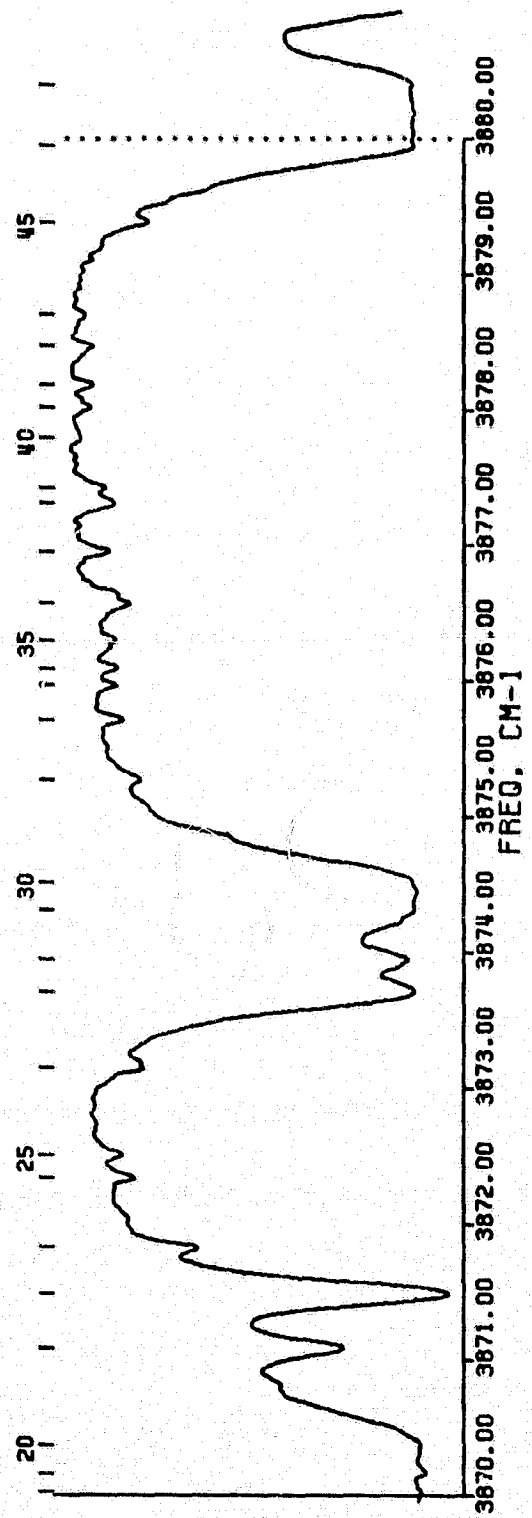
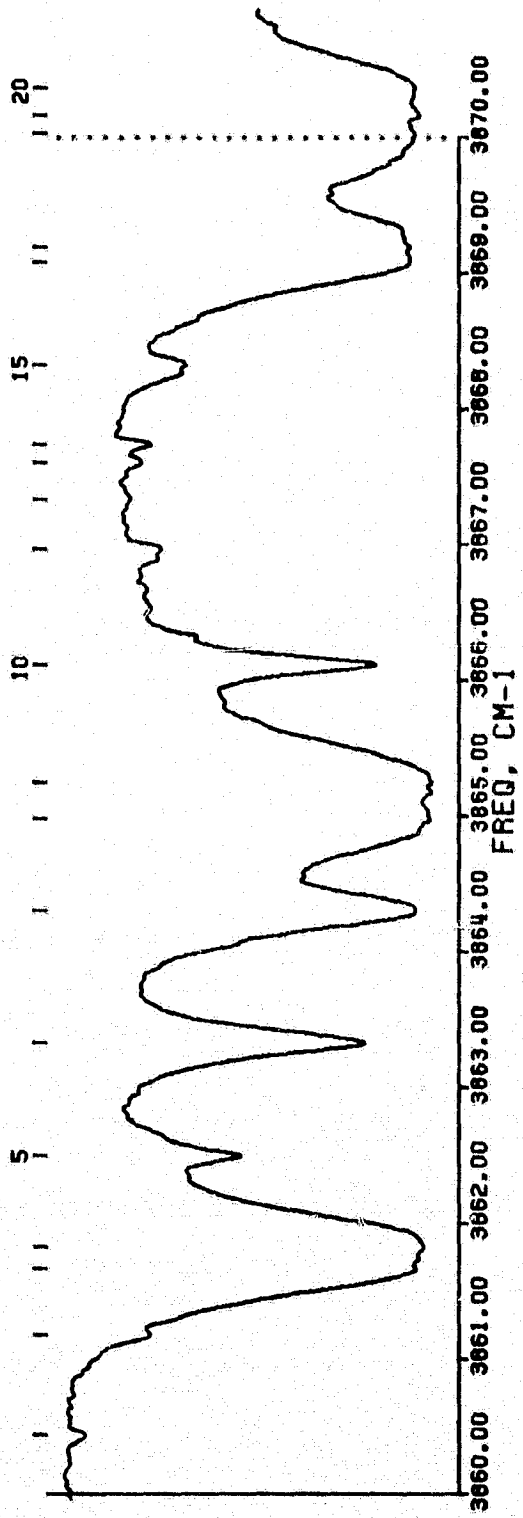
372



327

3860.435	3861.173	3861.660	3861.825	3862.495	5
3863.326	3864.300	3864.980	3865.247	3866.114	10
3866.970	3867.335	3867.608	3867.740	3868.325	15
3869.083	3869.191	3870.030	3870.165	3870.372	20
3871.086	3871.486	3871.826	3872.339	3872.510	25
3873.150	3873.712	3873.950	3874.317	3874.520	30
3875.276	3875.713	3875.970	3876.095	3876.305	35
3876.573	3876.956	3877.308	3877.420	3877.791	40
3878.019	3878.186	3878.469	3878.701	3879.384	45
3879.948	3880.400				50

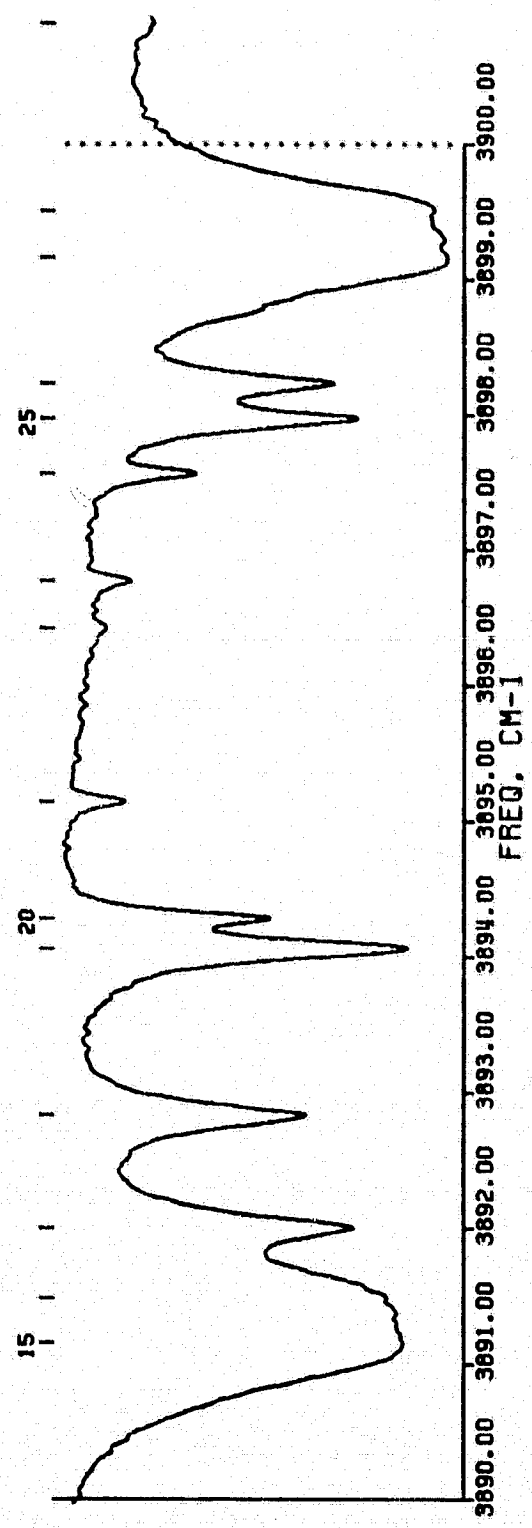
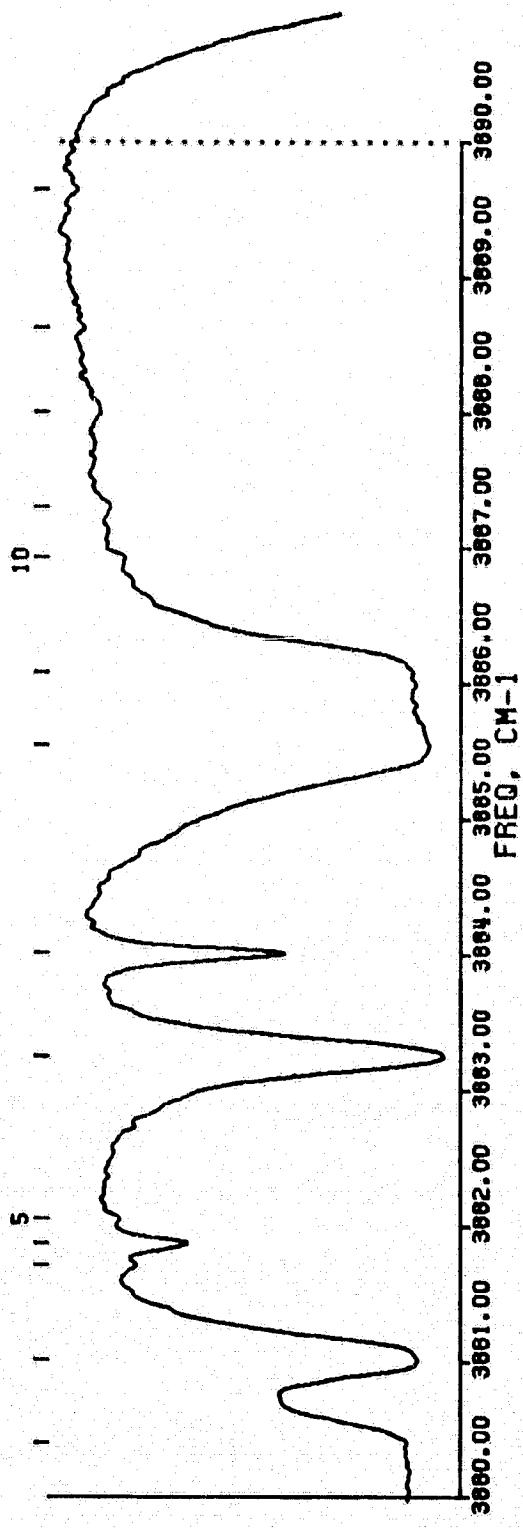
22



2254

3880.400	3881.009	3881.712	3881.872	3882.051	5
3883.250	3884.010	3885.550	3886.087	3886.930	10
3887.306	3888.000	3888.625	3889.650	3891.155	15
3891.488	3892.002	3892.836	3894.064	3894.287	20
3895.147	3896.428	3896.776	3897.570	3897.973	25
3898.233	3899.166	3899.511	3900.897		30

225

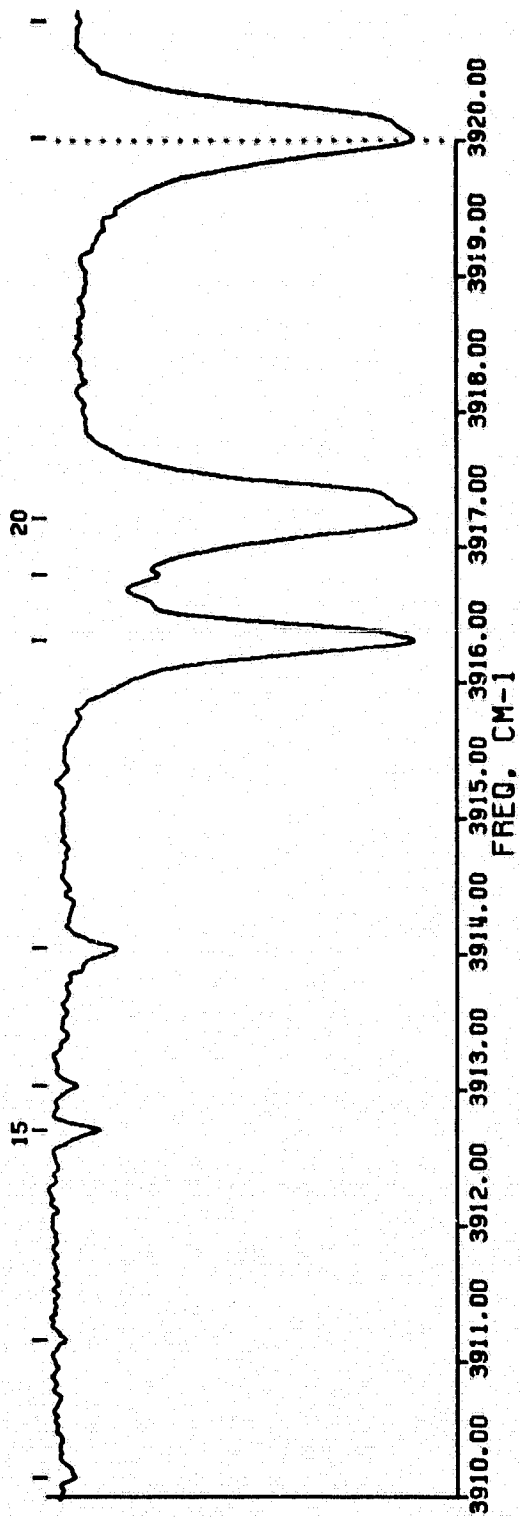
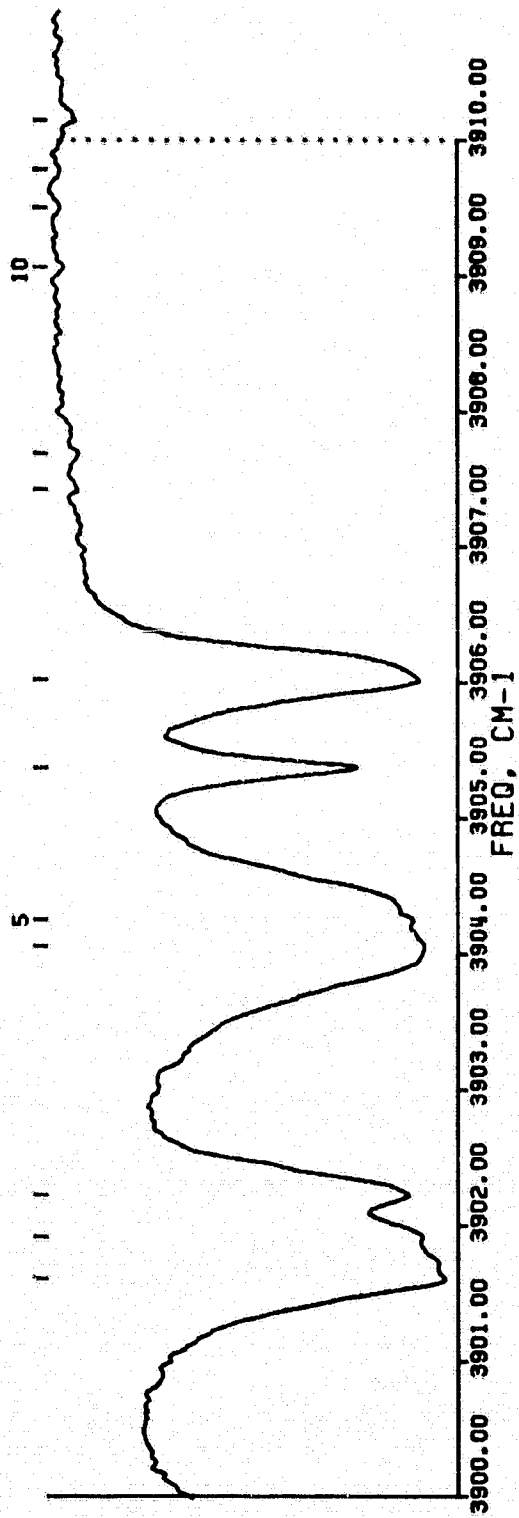


327



3901.605	3901.913	3902.221	3904.056	3904.249	5
3905.375	3906.020	3907.425	3907.690	3909.060	10
3909.501	3909.780	3910.144	3911.159	3912.703	15
3913.033	3914.045	3916.313	3916.798	3917.212	20
3920.017	3920.878				25

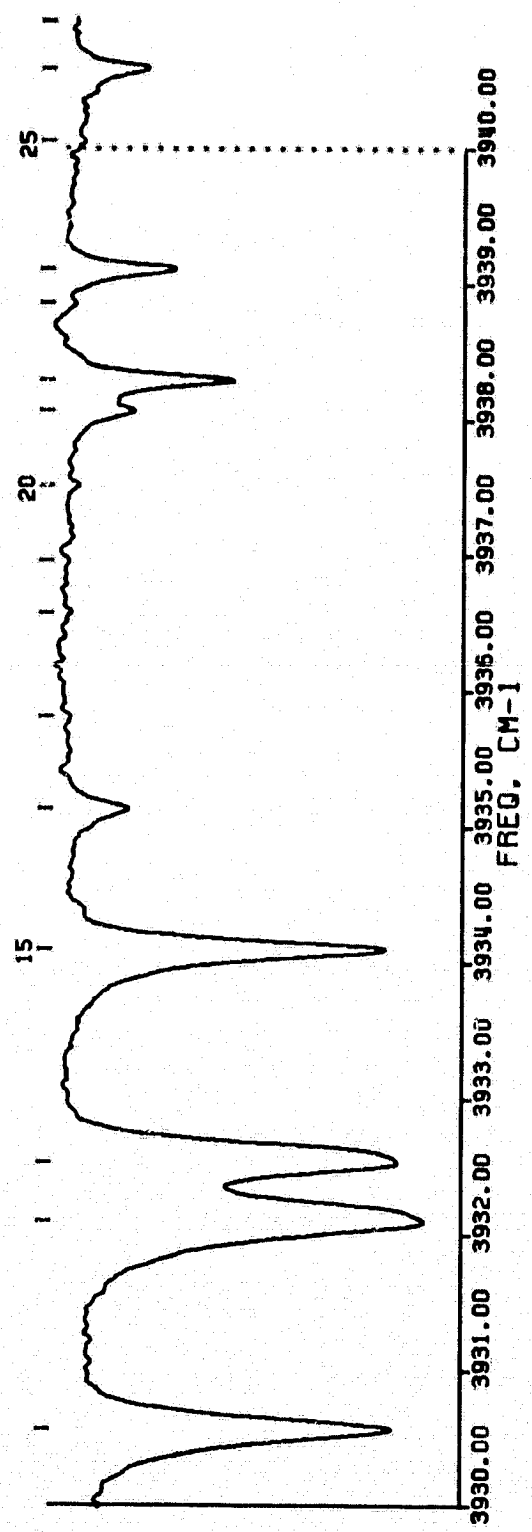
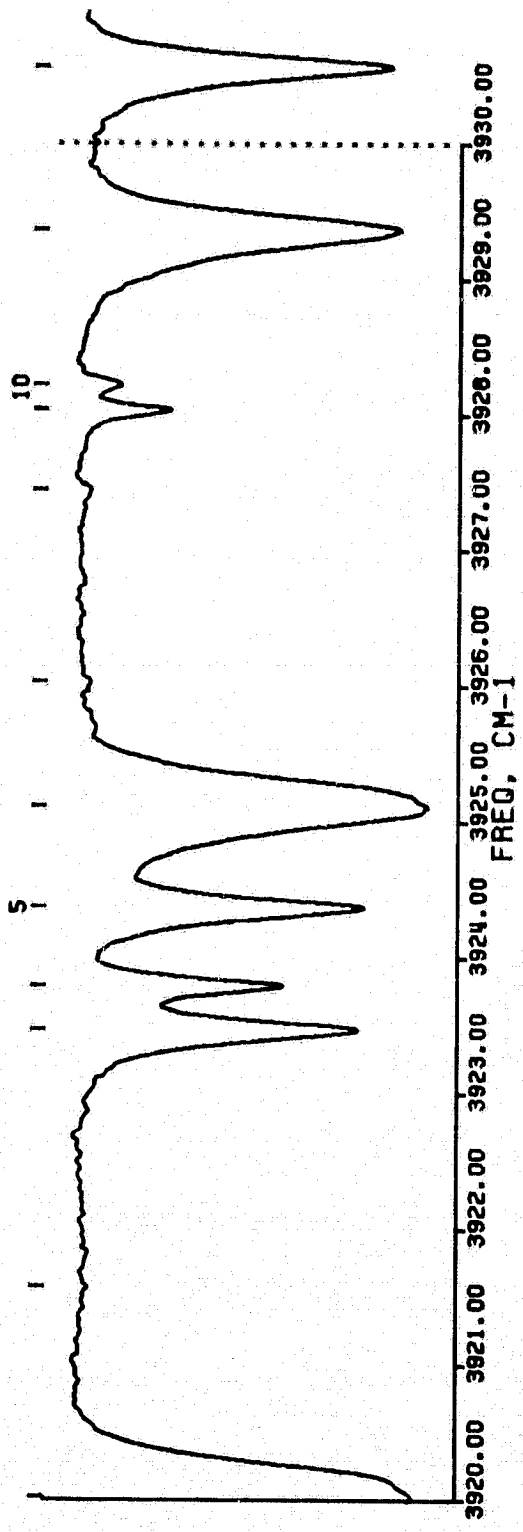
578



329

3920.024	3921.569	3923.466	3923.792	3924.368	5
3925.113	3926.030	3927.440	3928.035	3928.218	10
3929.361	3930.564	3932.096	3932.530	3934.097	15
3935.132	3935.811	3936.578	3936.959	3937.516	20
3938.066	3938.290	3938.855	3939.108	3940.051	25
3940.587	3940.934				30

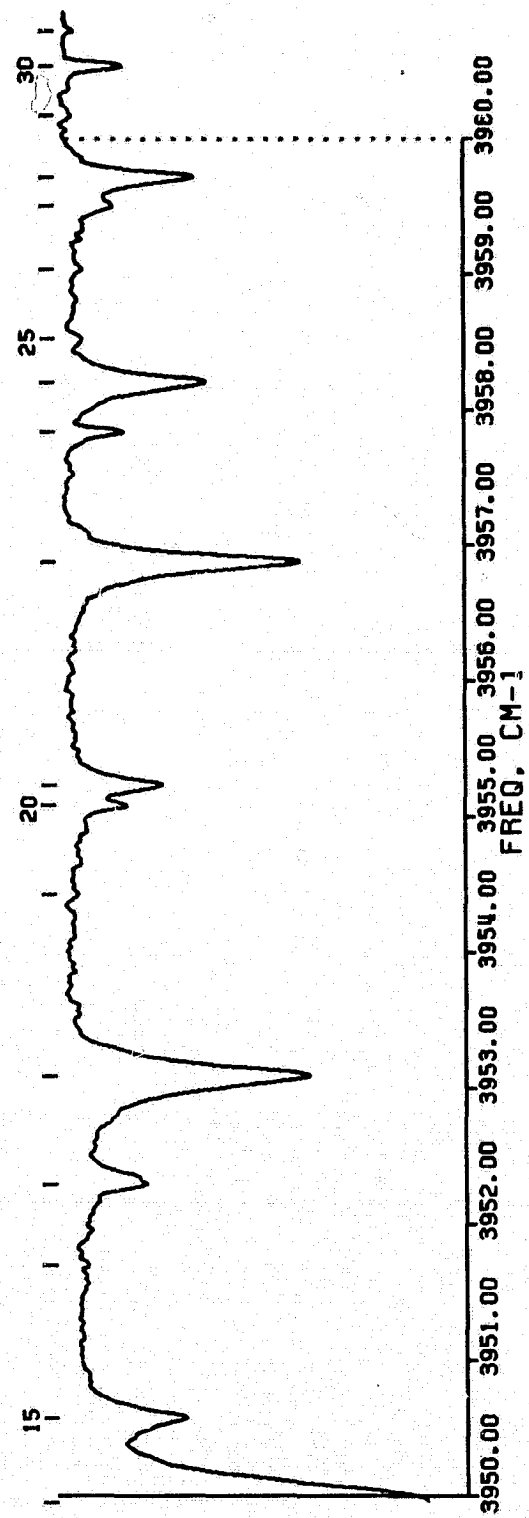
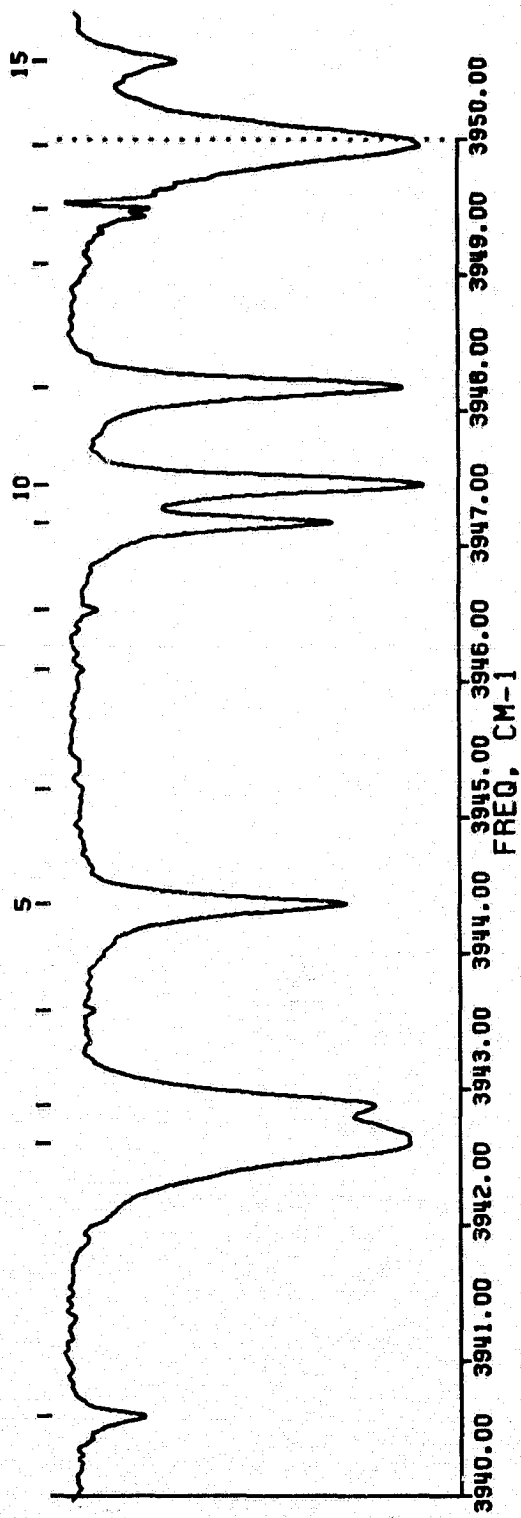
520



31

3940.587	3942.601	3942.876	3943.576	3944.363	5
3945.213	3946.091	3946.531	3947.172	3947.452	10
3948.171	3949.083	3949.489	3949.956	3950.578	15
3951.703	3952.300	3953.097	3954.436	3955.091	20
3955.241	3956.881	3957.840	3958.208	3958.526	25
3959.042	3959.506	3959.720	3960.173	3960.534	30
3960.797					35

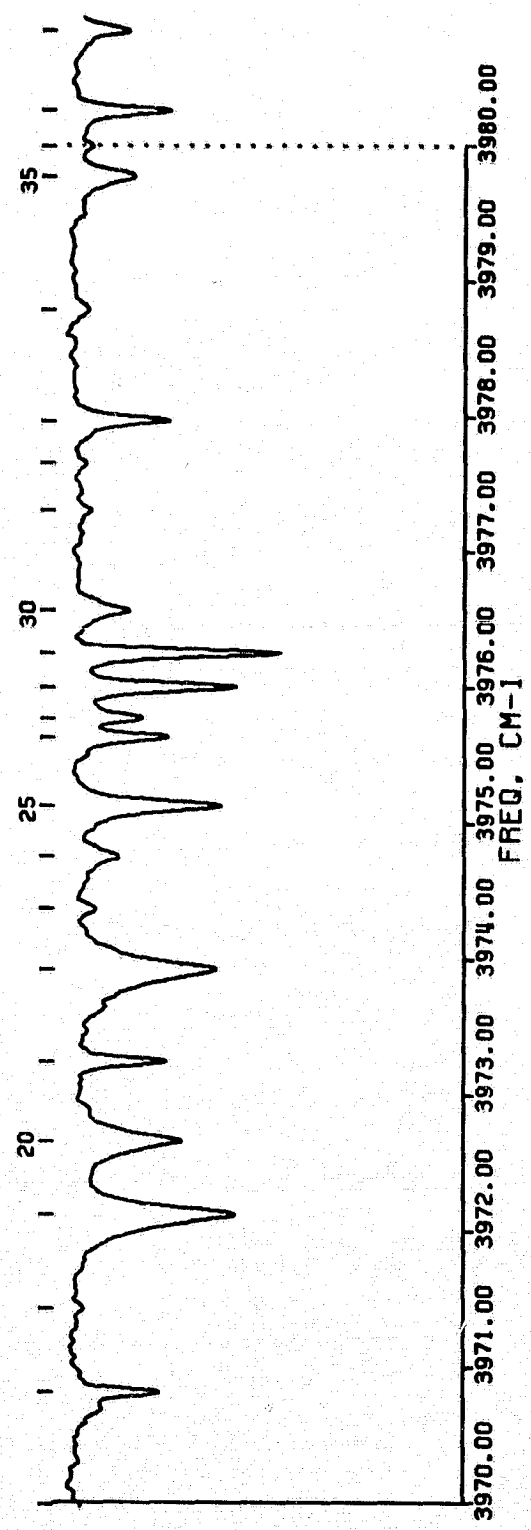
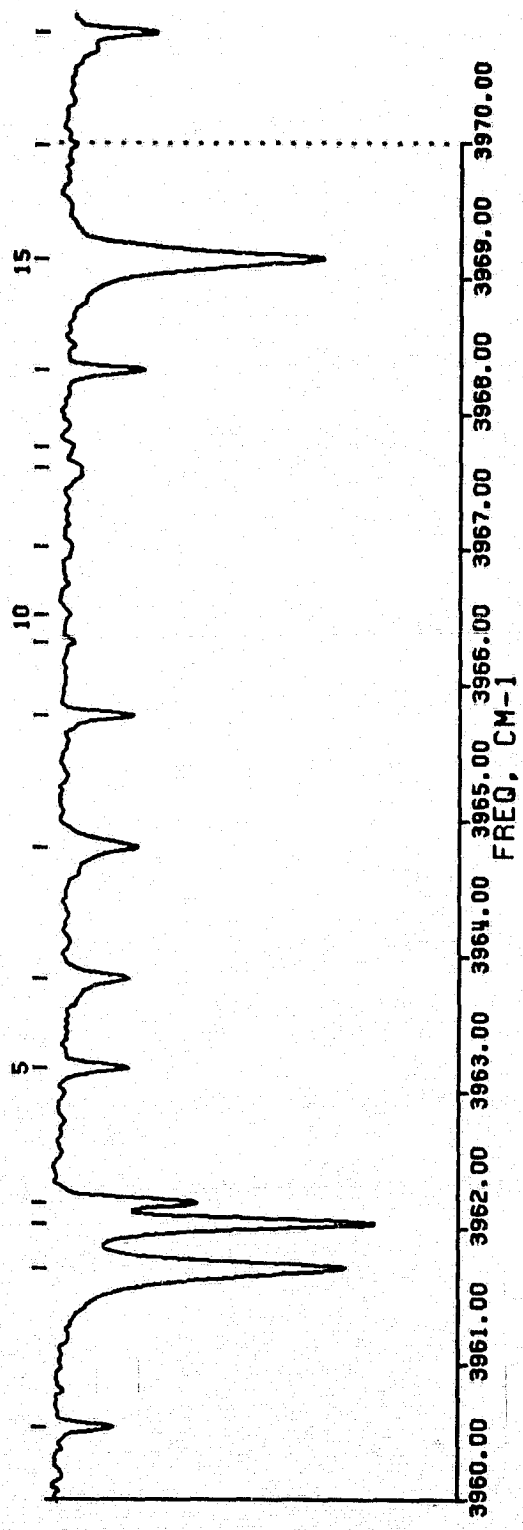
1002



322

3960.534	3961.706	3962.034	3962.185	3963.180	5
3963.840	3964.807	3965.776	3966.314	3966.521	10
3967.025	3967.603	3967.759	3968.323	3969.143	15
3969.985	3970.813	3971.432	3972.123	3972.664	20
3973.250	3973.929	3974.375	3974.760	3975.135	25
3975.640	3975.778	3976.009	3976.258	3976.573	30
3977.307	3977.663	3977.971	3978.786	3979.770	35
3979.992	3980.256	3980.842			40

334

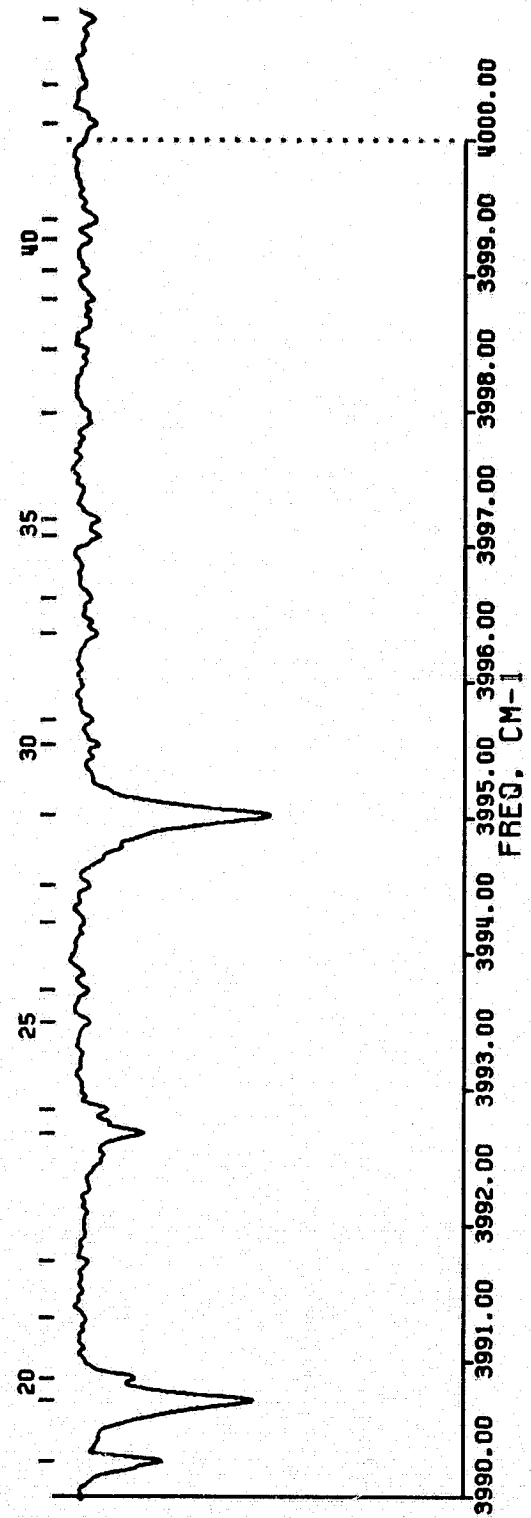
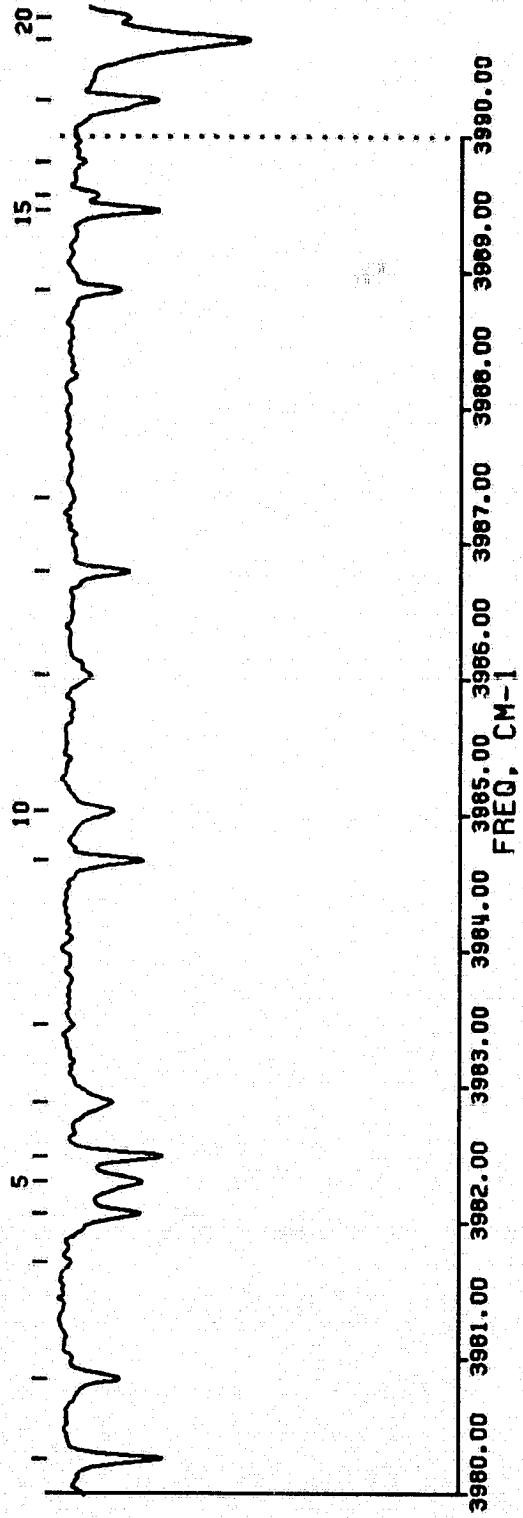


335



3980.256	3980.842	3981.705	3982.063	3982.295	5
3982.484	3982.879	3983.453	3984.662	3985.026	10
3986.026	3986.792	3987.328	3988.866	3989.454	15
3989.565	3989.812	3990.264	3990.711	3990.873	20
3991.315	3991.735	3992.678	3992.853	3993.497	25
3993.730	3994.231	3994.506	3995.021	3995.541	30
3995.722	3996.359	3996.620	3997.076	3997.196	35
3997.981	3998.454	3998.823	3999.030	3999.265	40
3999.411	4000.120	4000.406	4000.888		45

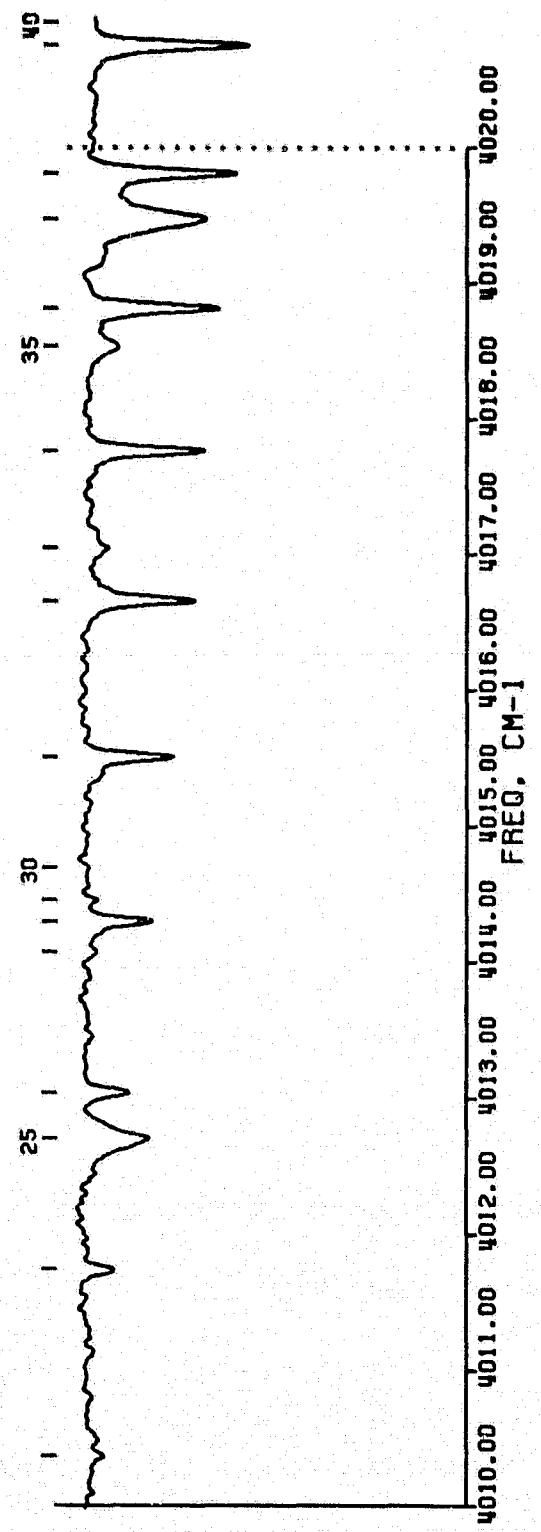
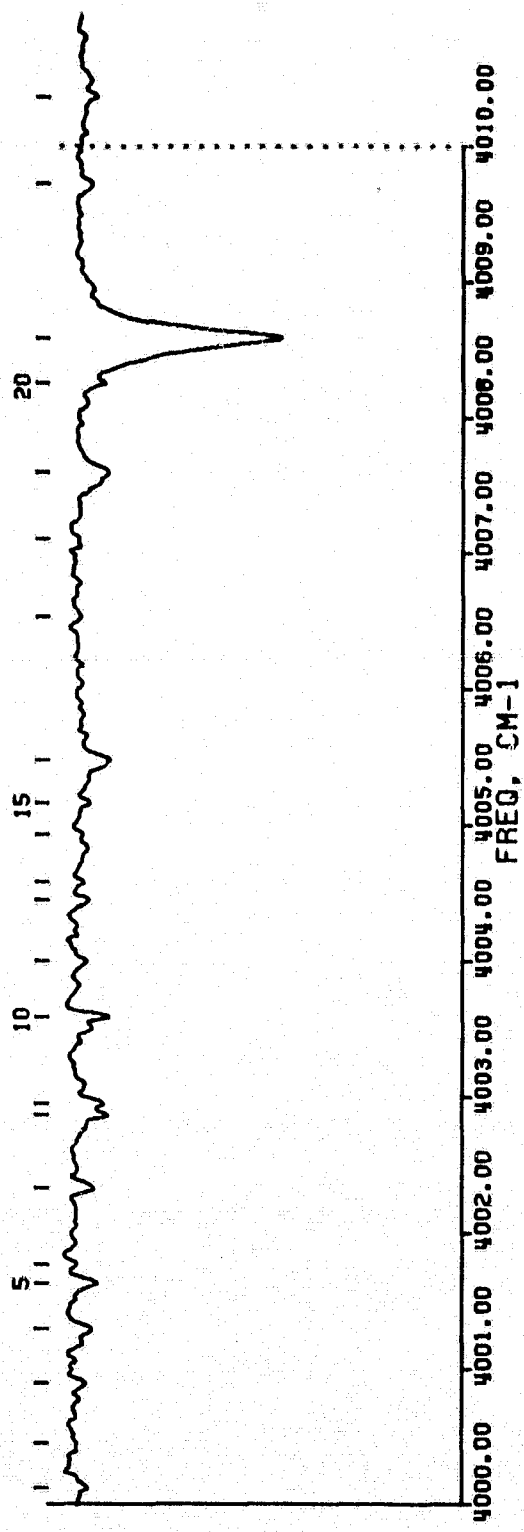
226



331

4000.120	4000.448	4000.888	4001.288	4001.626	5
4001.768	4002.325	4002.863	4002.950	4003.586	10
4003.998	4004.450	4004.576	4004.933	4005.163	15
4005.479	4006.536	4007.106	4007.595	4008.256	20
4008.585	4009.728	4010.365	4011.742	4012.705	25
4013.041	4014.075	4014.302	4014.460	4014.700	30
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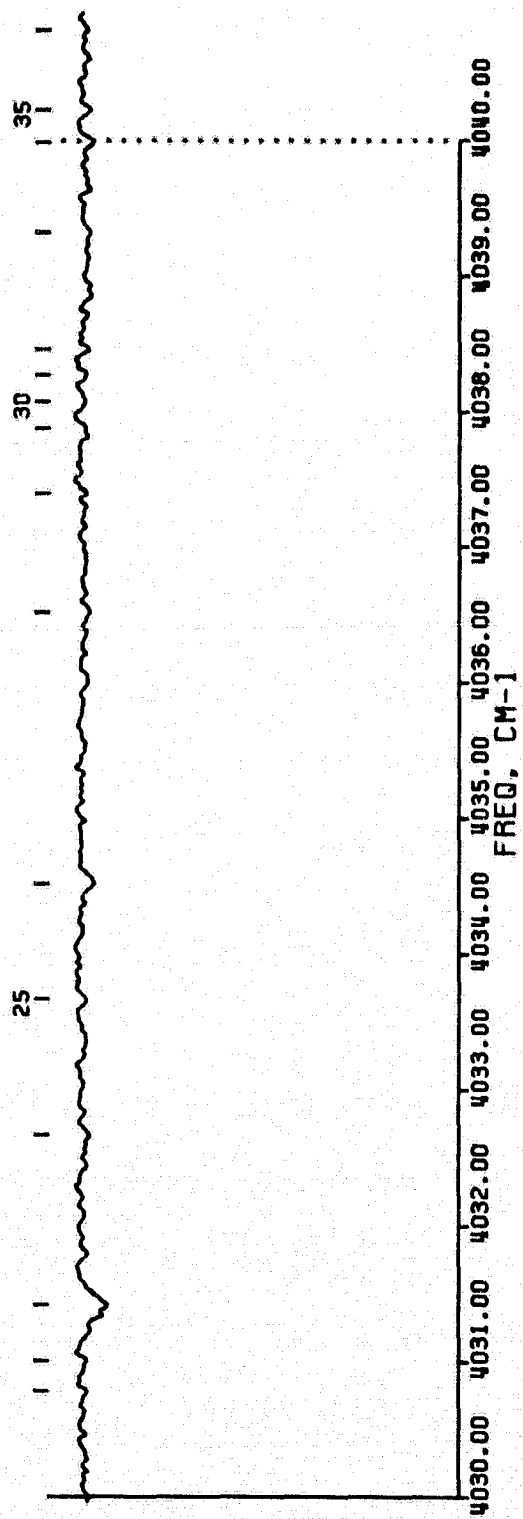
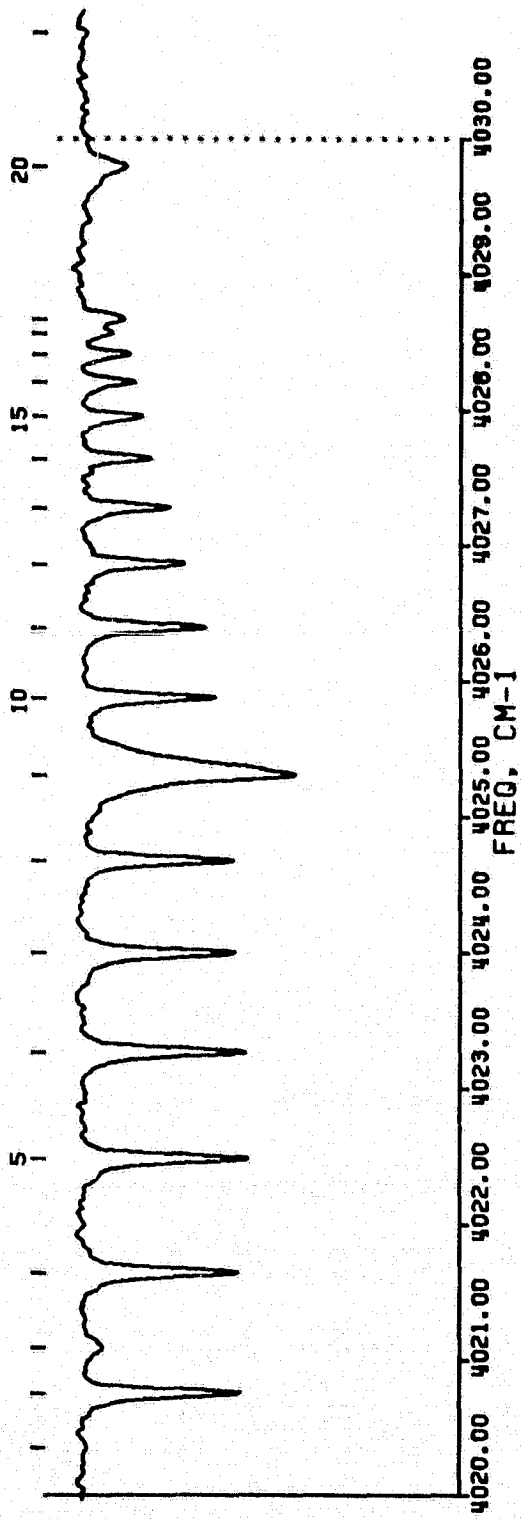
338



320

4020.353	4020.753	4021.090	4021.643	4022.480	5
4023.265	4023.998	4024.675	4025.310	4025.878	10
4026.395	4026.864	4027.276	4027.641	4027.953	15
4028.203	4028.410	4028.564	4028.667	4029.796	20
4030.780	4031.005	4031.418	4032.667	4033.668	25
4034.520	4036.520	4037.395	4037.875	4038.076	30
4038.268	4038.458	4039.317	4039.984	4040.225	35
4040.810					40

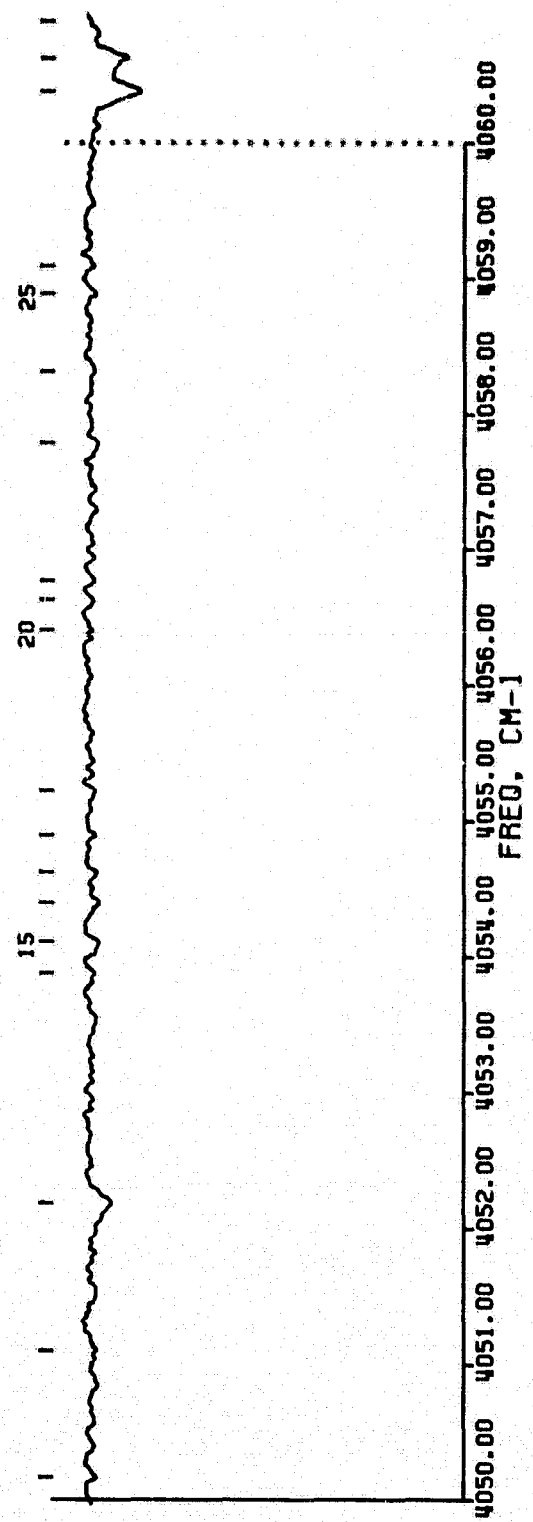
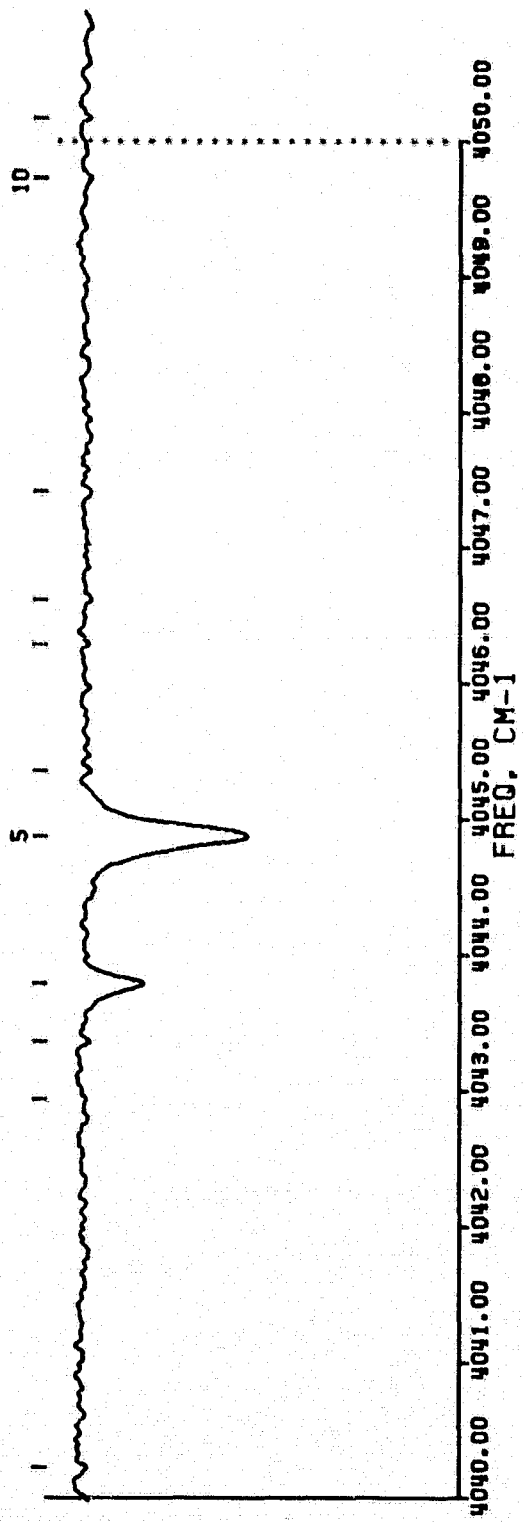
340



1125

4040.225	4042.935	4043.359	4043.792	4044.876	5
4045.358	4046.288	4046.618	4047.414	4049.725	10
4050.168	4051.103	4052.189	4053.878	4054.110	15
4054.398	4054.624	4054.897	4055.221	4056.406	20
4056.630	4056.771	4057.785	4058.312	4058.886	25
4059.090	4060.377	4060.623	4060.894		30

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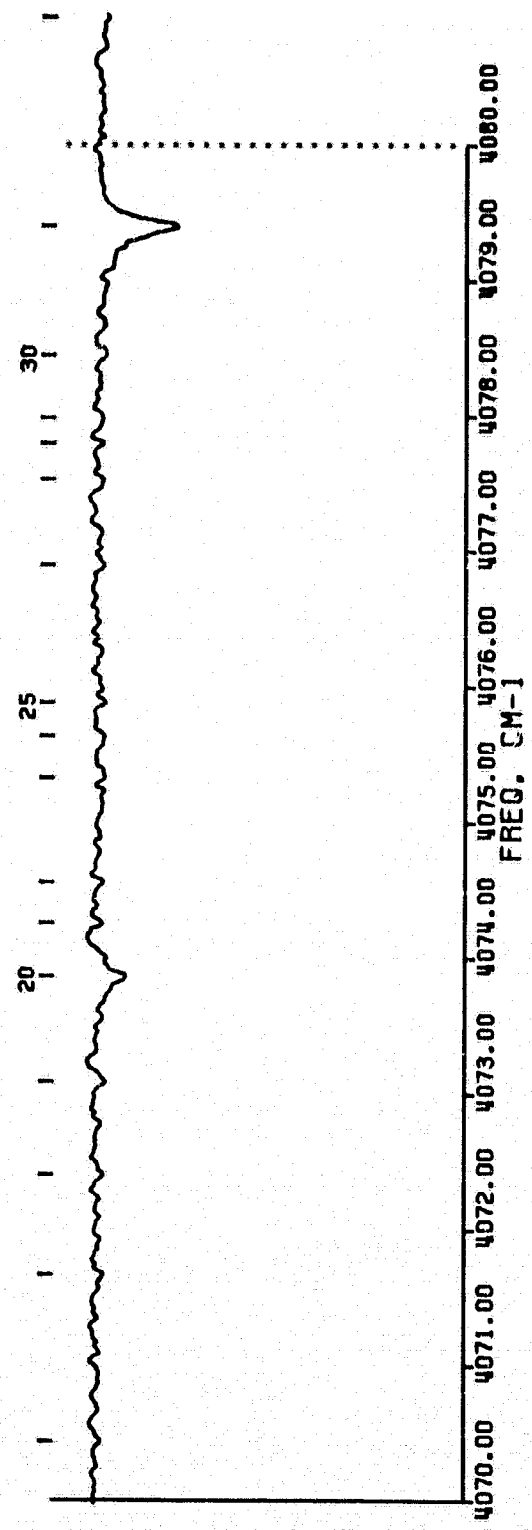
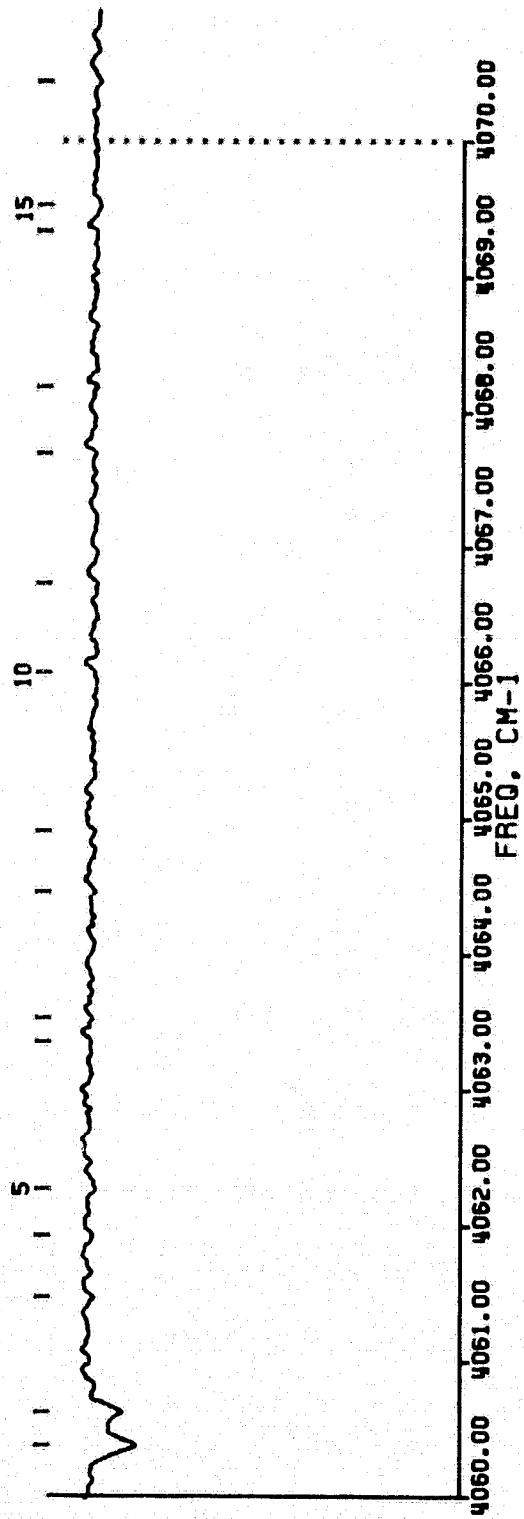


343



4060.374	4060.621	4061.465	4061.919	4062.263	5
4063.351	4063.521	4064.456	4064.900	4066.073	10
4066.729	4067.689	4068.181	4069.323	4069.519	15
4070.435	4071.670	4072.405	4073.091	4073.868	20
4074.255	4074.560	4075.331	4075.634	4075.881	25
4076.895	4077.525	4077.795	4077.980	4078.444	30
4079.396	4080.933				35

344

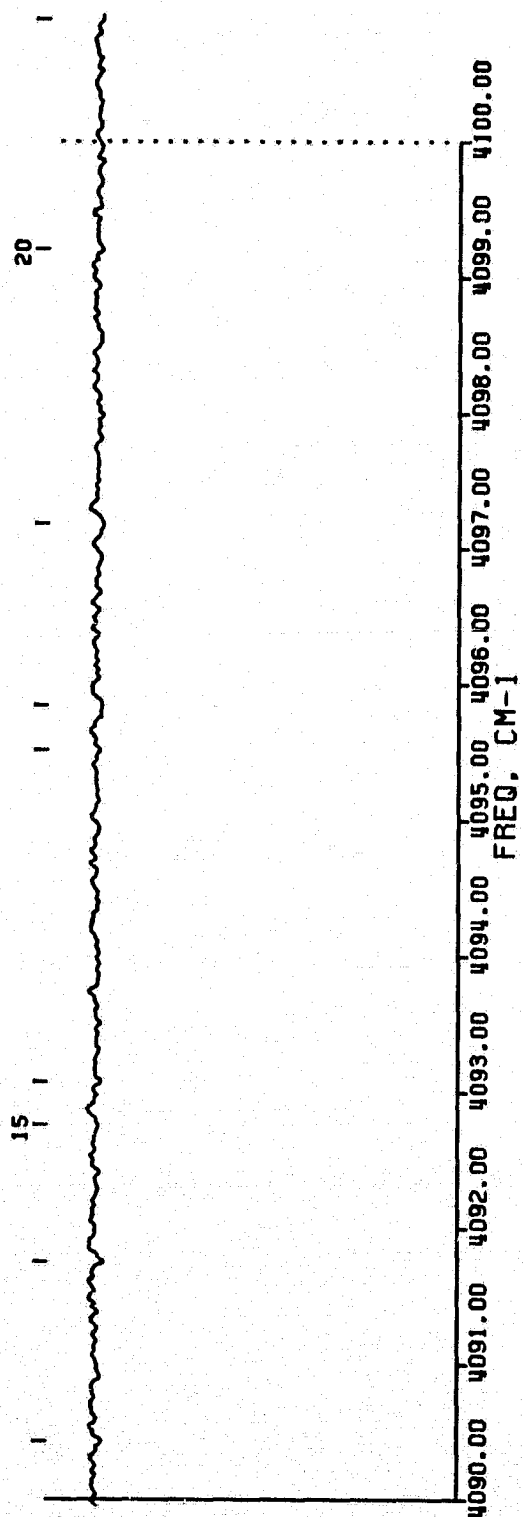
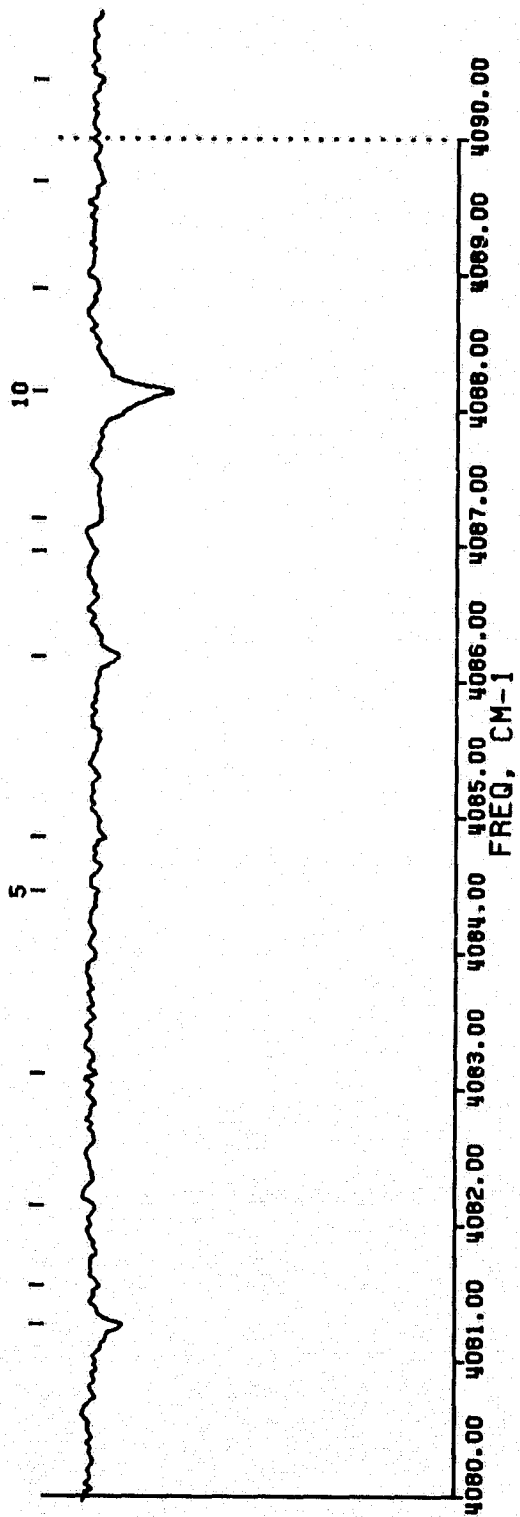


4081.261 4081.551 4082.135 4083.111 4084.453 5  
4084.351 4086.185 4086.960 4087.199 4088.135 10  
4088.889 4089.680 4090.431 4091.753 4092.758 15  
4093.078 4095.520 4095.849 4097.183 4099.210 20

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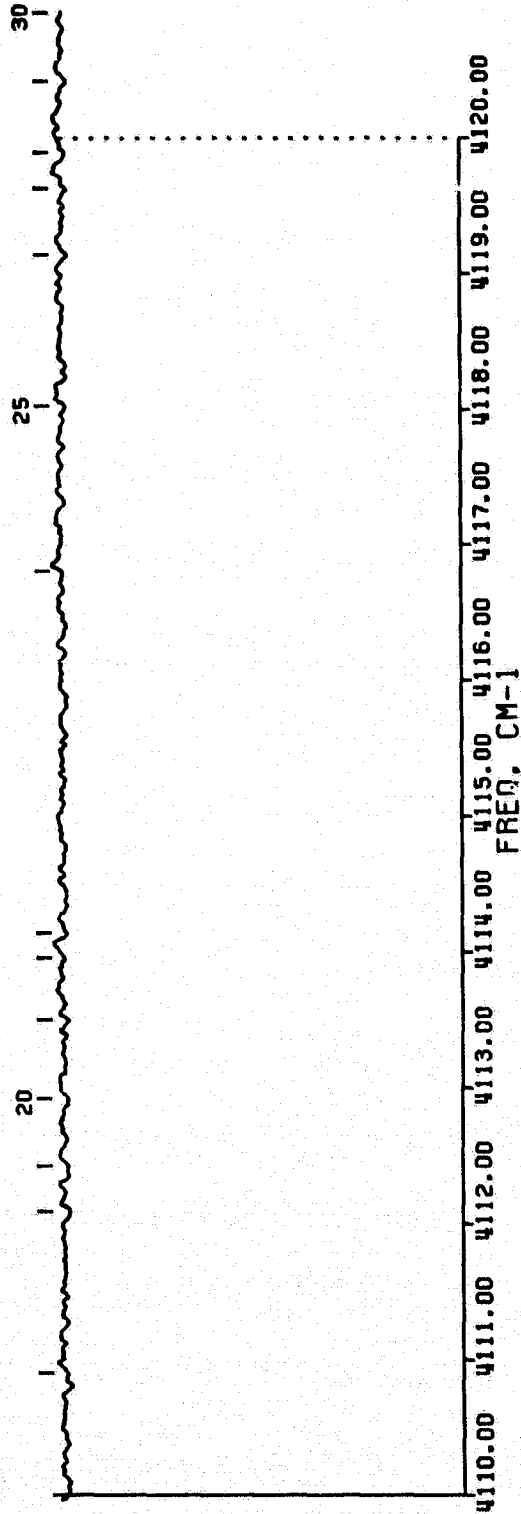
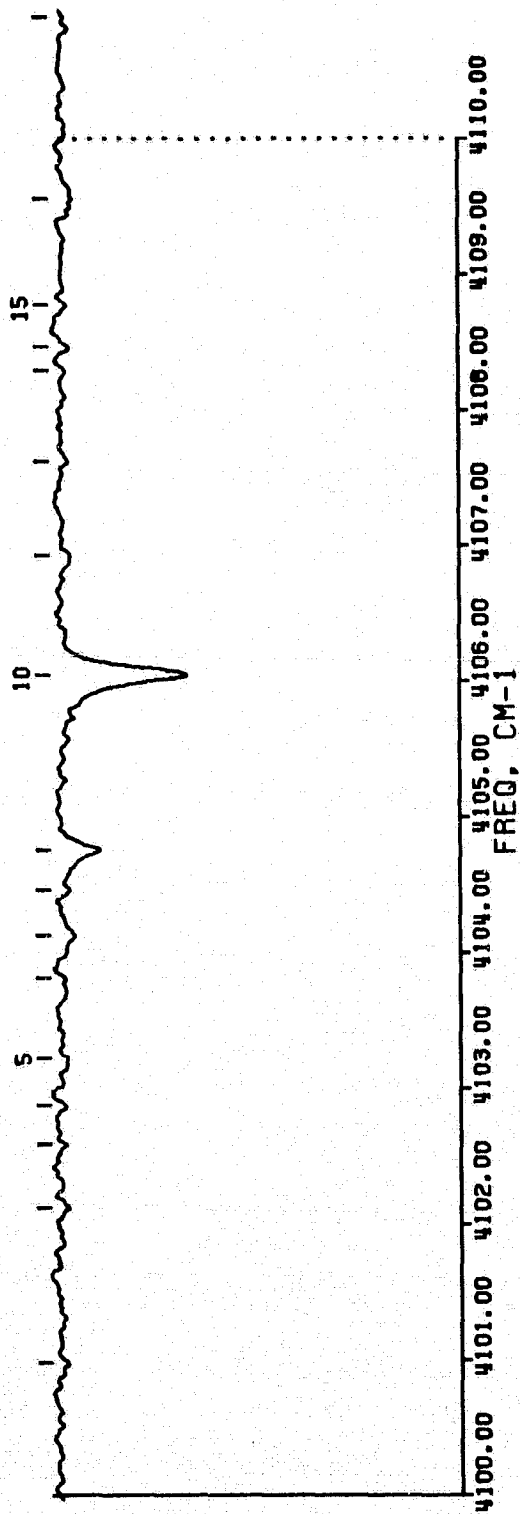
4100.901

346



4100.972	4102.116	4102.585	4102.670	4103.222	5
4103.808	4104.125	4104.464	4104.757	4106.046	10
4106.925	4107.620	4108.288	4108.468	4108.773	15
4109.558	4110.898	4112.089	4112.421	4112.921	20
4113.503	4113.956	4114.136	4116.804	4118.023	25
4119.140	4119.625	4119.890	4120.421	4120.921	30

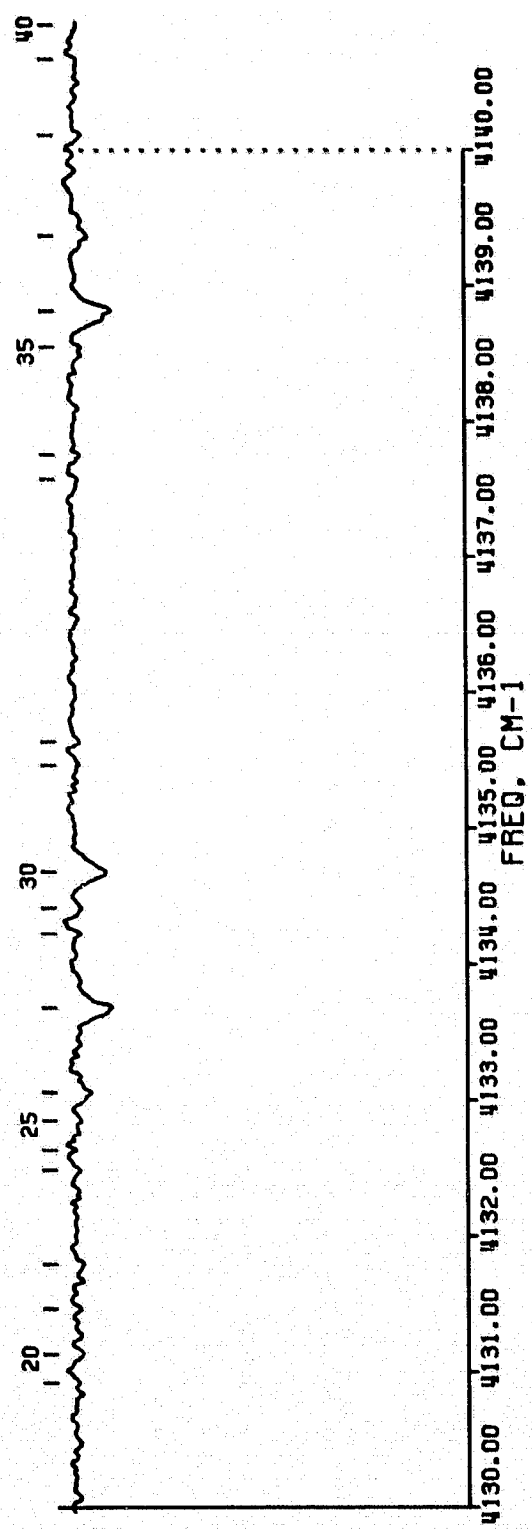
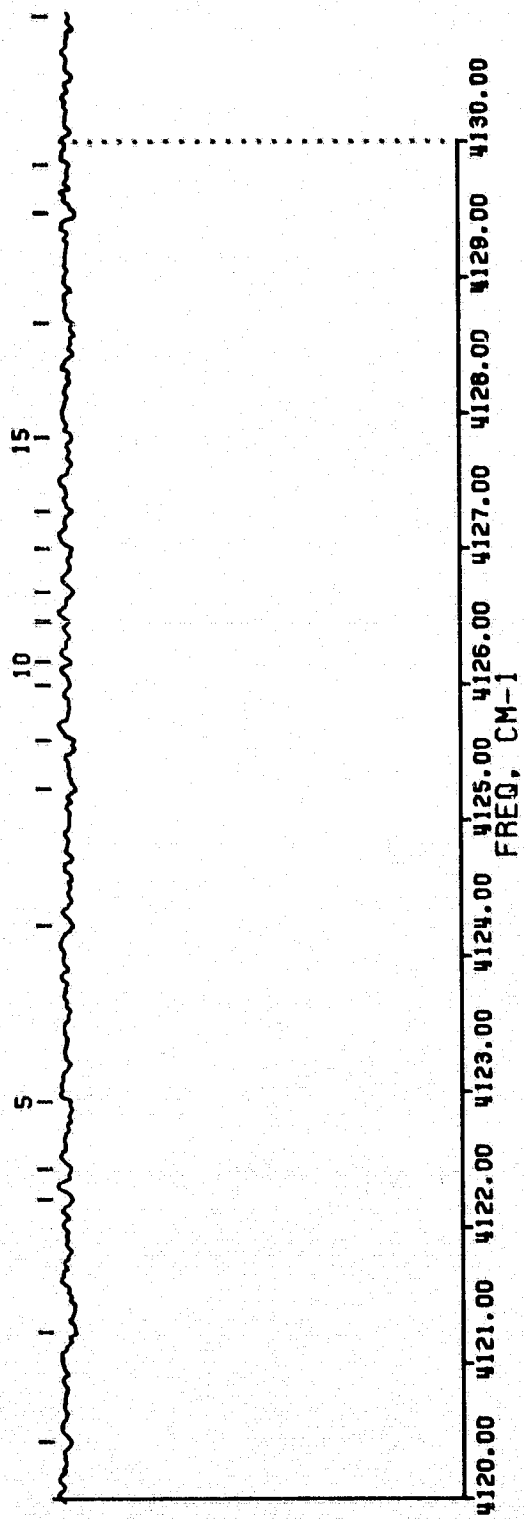
348



323

4120.421	4121.226	4122.210	4122.433	4122.929	5
4124.226	4125.230	4125.585	4125.995	4126.167	10
4126.460	4126.683	4127.000	4127.276	4127.620	15
4128.660	4129.472	4129.828	4130.921	4131.132	20
4131.464	4131.796	4132.488	4132.636	4132.855	25
4133.058	4133.687	4134.230	4134.417	4134.687	30
4135.472	4135.648	4137.578	4137.757	4138.546	35
4138.816	4139.366	4140.113	4140.667	4140.925	40

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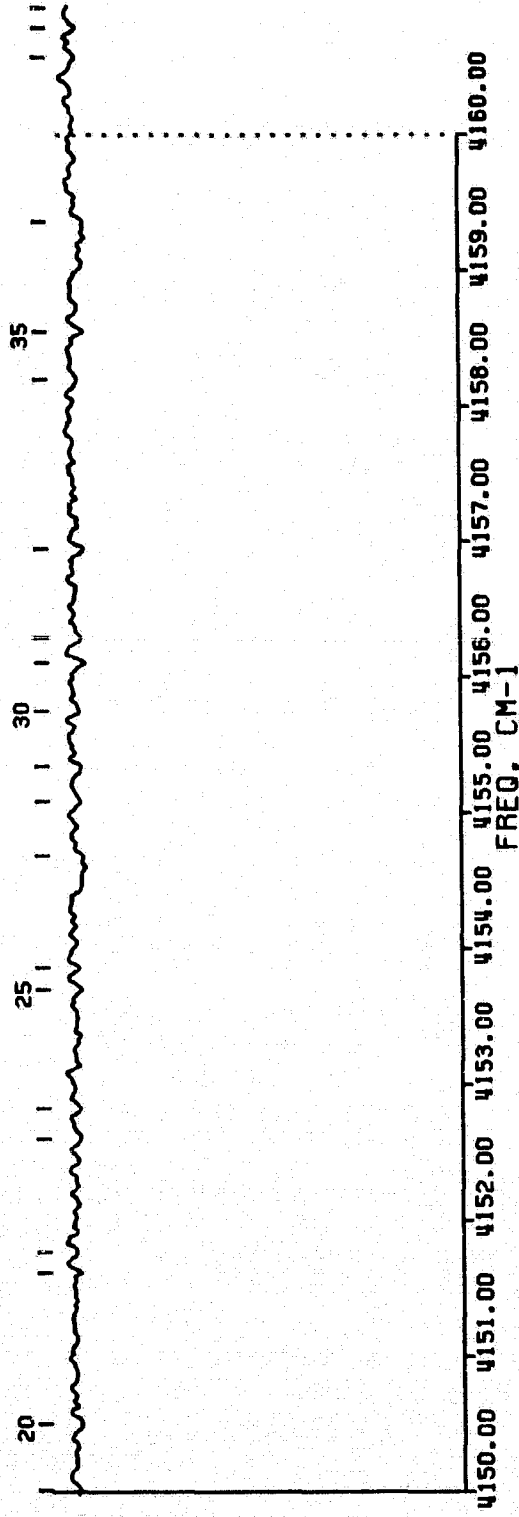
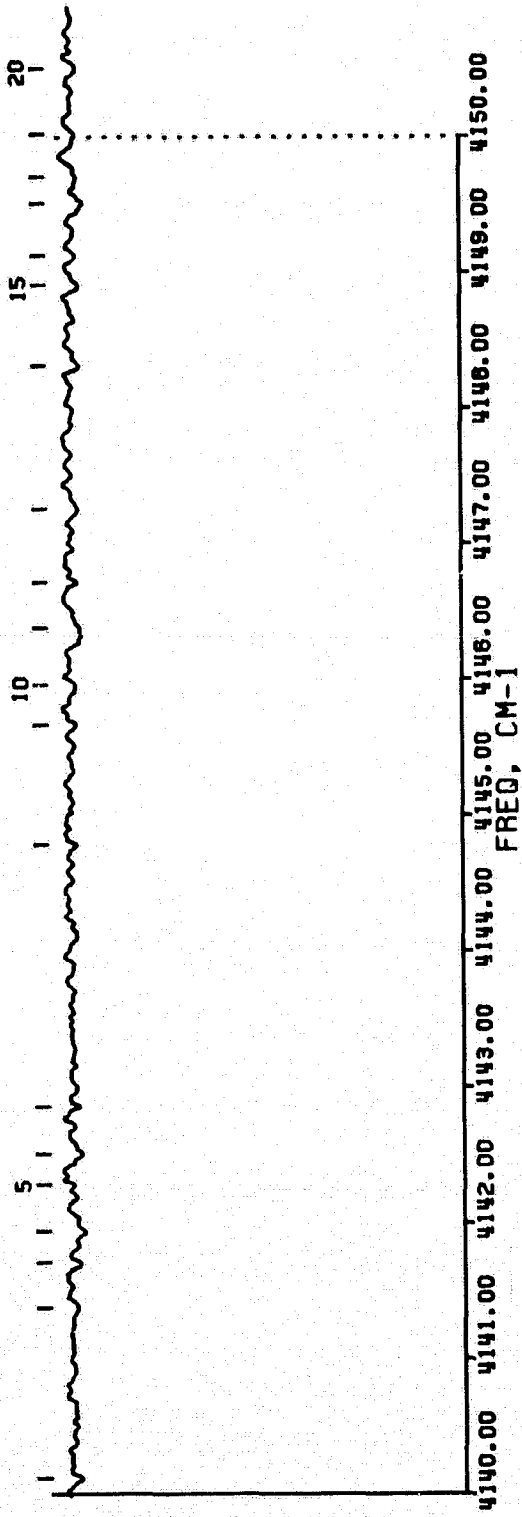


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4140.113	4141.366	4141.703	4141.933	4142.276	5
4142.503	4142.855	4144.781	4145.667	4145.956	10
4146.378	4146.714	4147.253	4148.312	4148.910	15
4149.125	4149.511	4149.703	4150.019	4150.503	20
4151.620	4151.773	4152.605	4152.831	4153.703	25
4153.866	4154.691	4155.093	4155.351	4155.757	30
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4159.363	4160.573	4160.788	4160.937		40

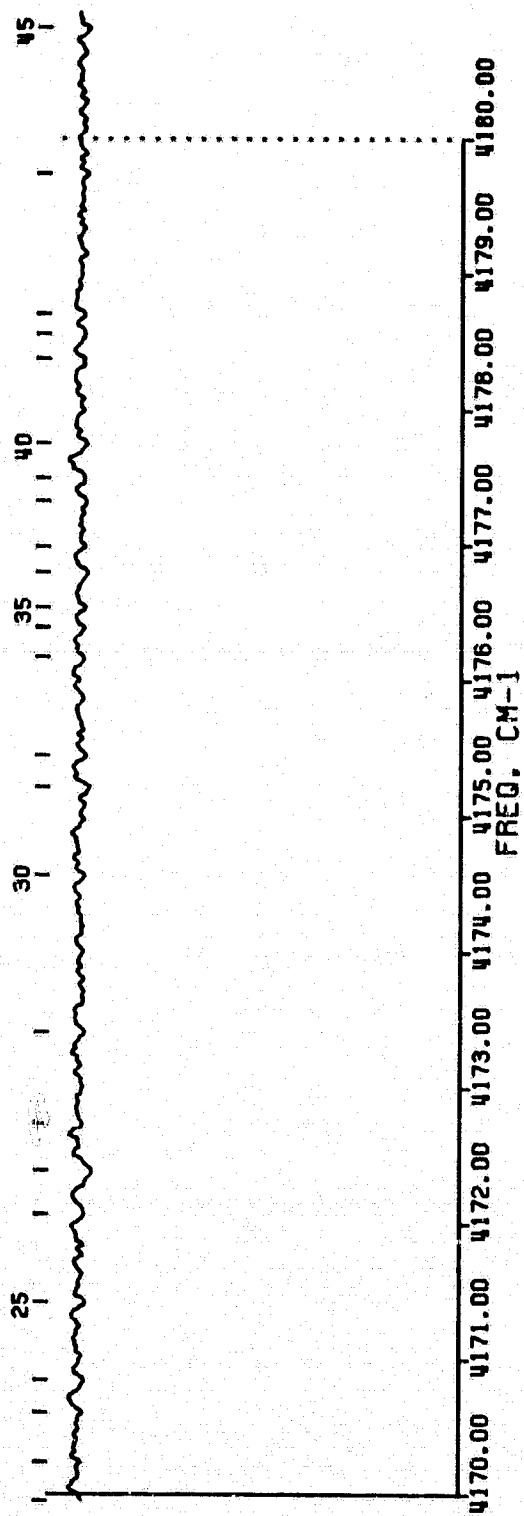
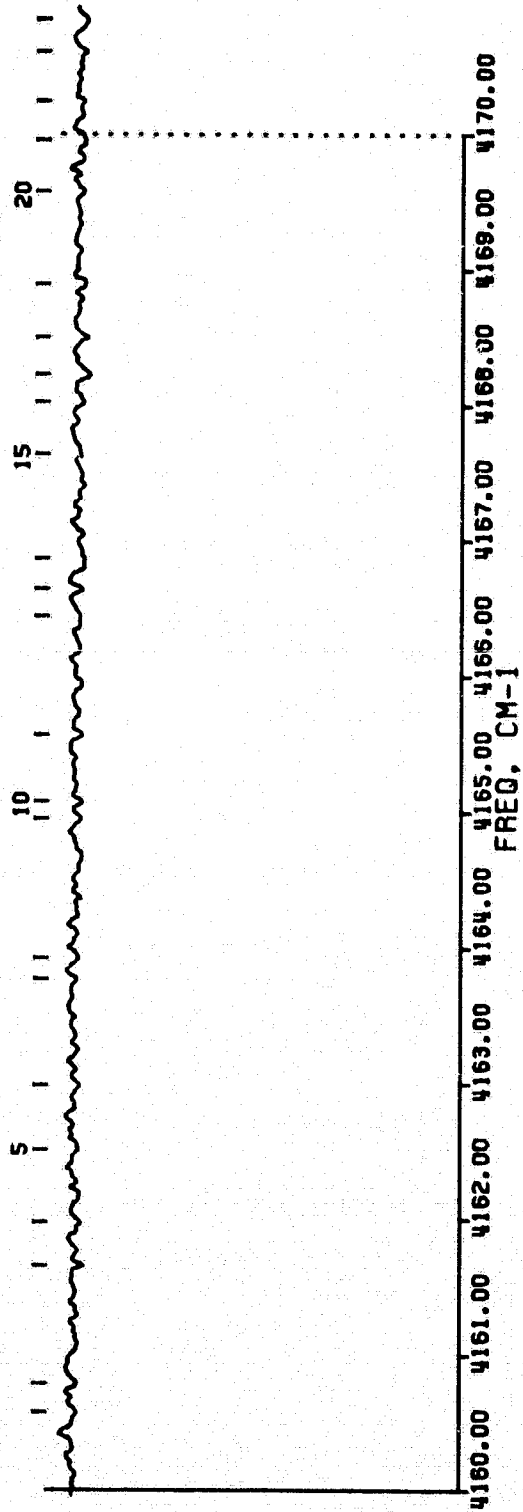
37



7100

4160.573	4160.788	4161.656	4161.976	4162.511	5
4162.984	4163.765	4163.921	4164.953	4165.078	10
4165.570	4166.445	4166.644	4166.866	4167.636	15
4168.023	4168.226	4168.500	4168.894	4169.578	20
4169.956	4170.241	4170.605	4170.843	4171.417	25
4172.066	4172.386	4172.730	4173.410	4174.566	30
4175.214	4175.448	4176.175	4176.390	4176.542	35
4176.800	4176.991	4177.323	4177.495	4177.750	40
4178.375	4178.558	4178.706	4179.738	4180.816	45

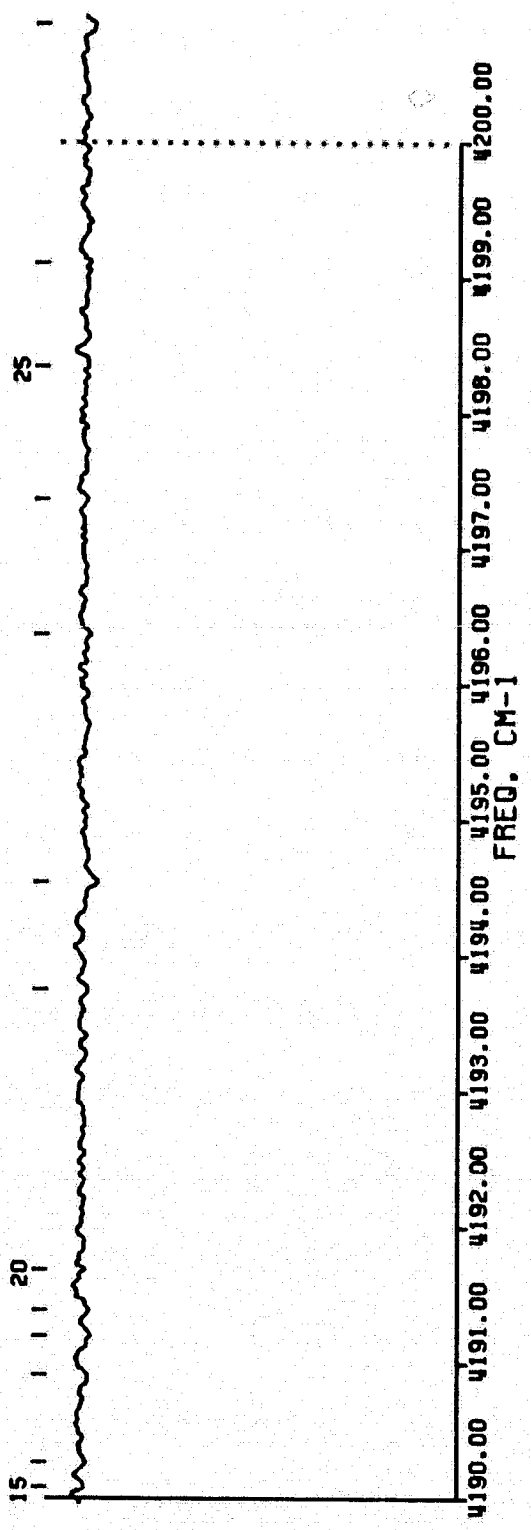
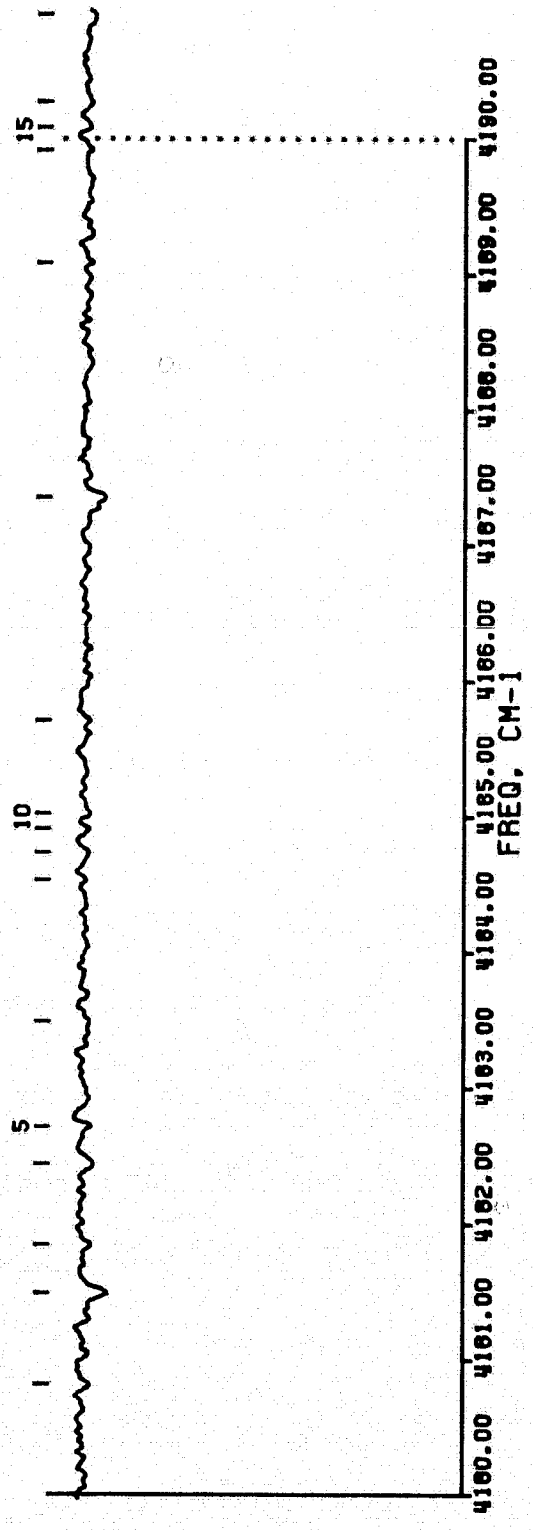
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4180.812	4181.484	4181.843	4182.437	4182.714	5
4183.488	4184.531	4184.734	4184.910	4185.019	10
4185.706	4187.355	4189.081	4189.913	4190.085	15
4190.269	4190.913	4191.203	4191.390	4191.687	20
4193.753	4194.546	4196.370	4197.366	4198.347	25
4199.113	4200.875				30

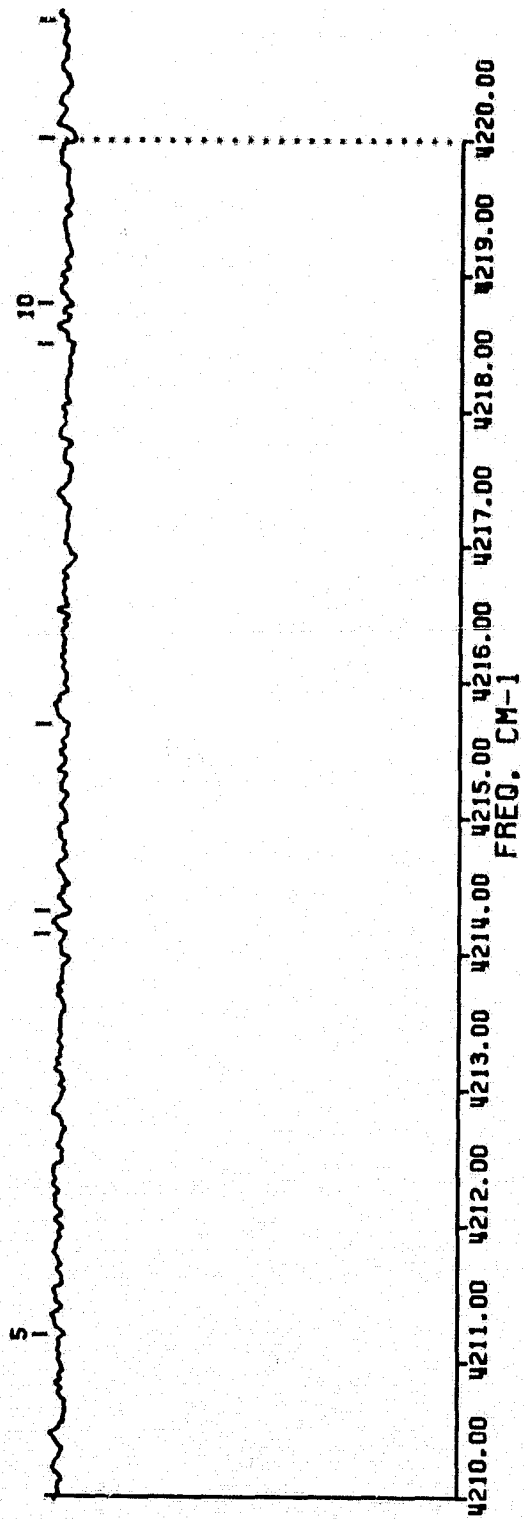
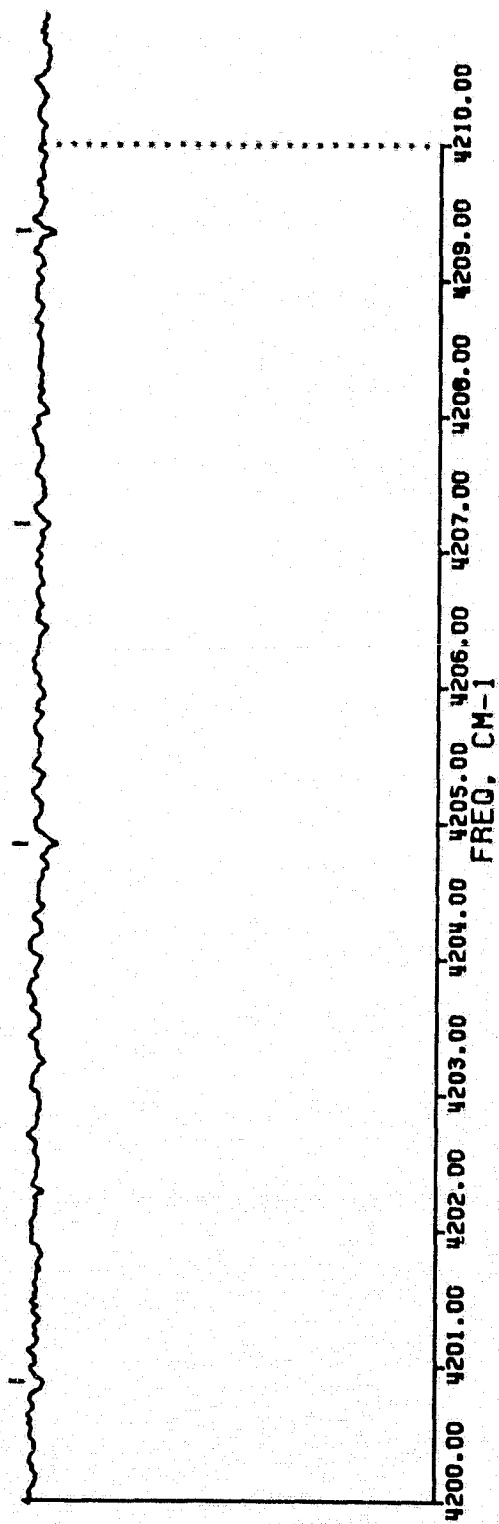
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557

4200.875	4204.839	4207.198	4209.351	4211.195	5
4214.144	4214.316	4215.683	4218.484	4218.788	10
4220.003	4220.875				15

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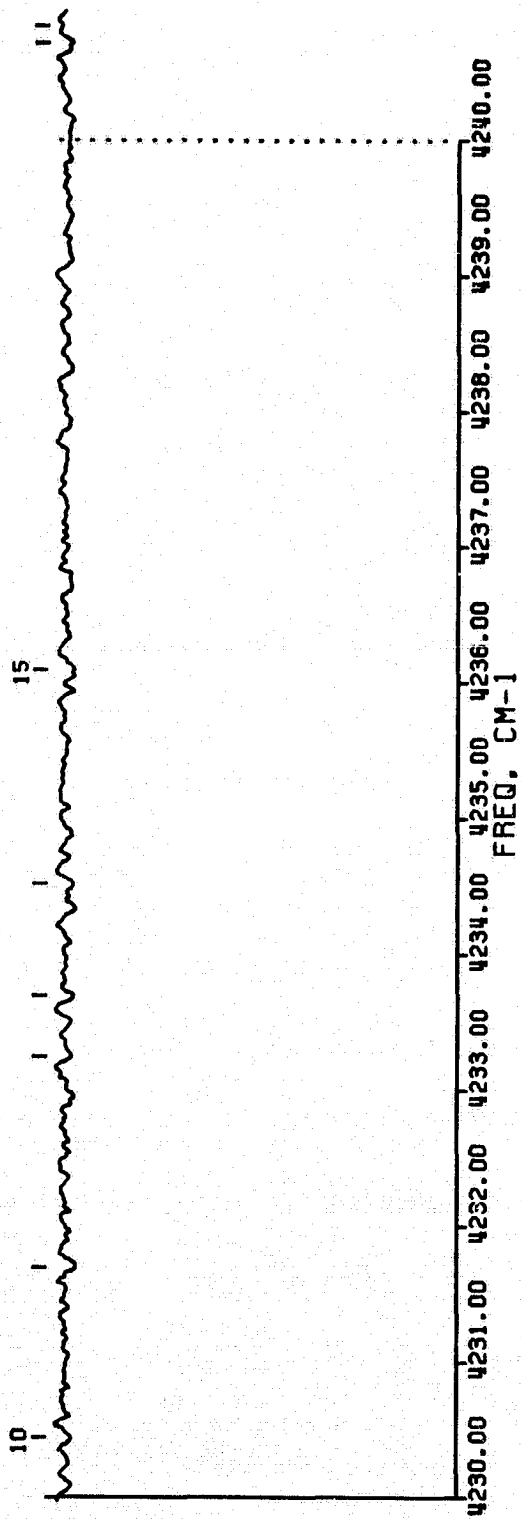
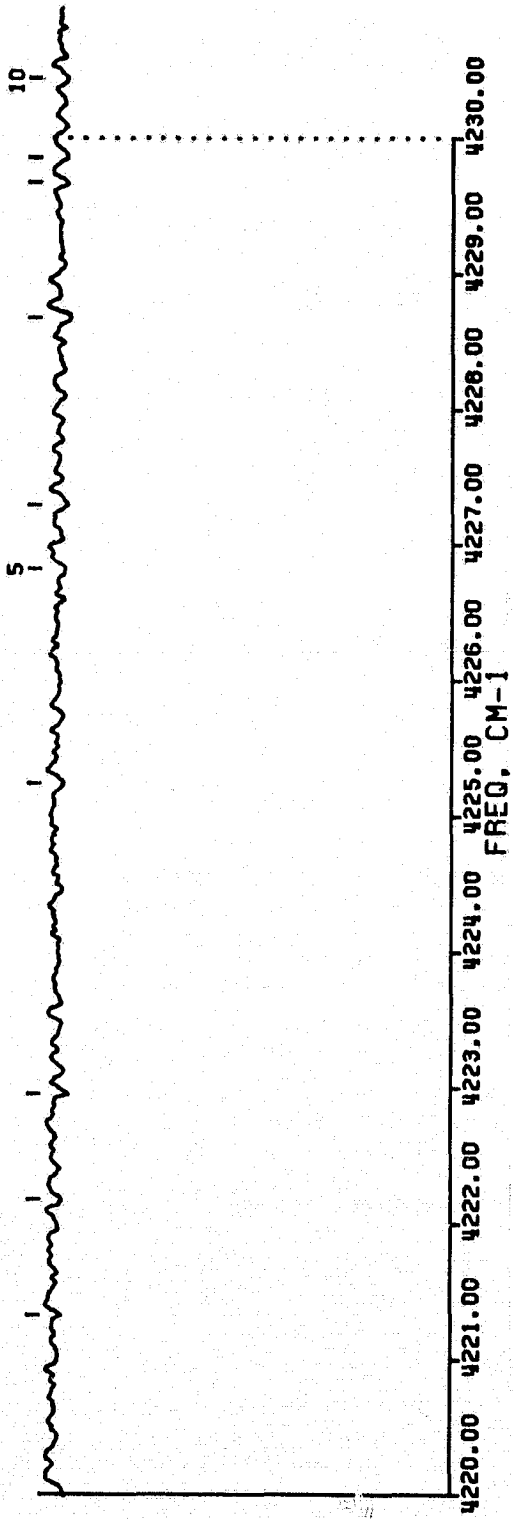


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4221.320    4222.175    4222.953    4225.238    4226.620    5  
4227.292    4228.671    4229.667    4229.855    4230.441    10  
4231.695    4233.253    4233.698    4234.523    4236.101    15  
4240.722    4240.843                                                                20

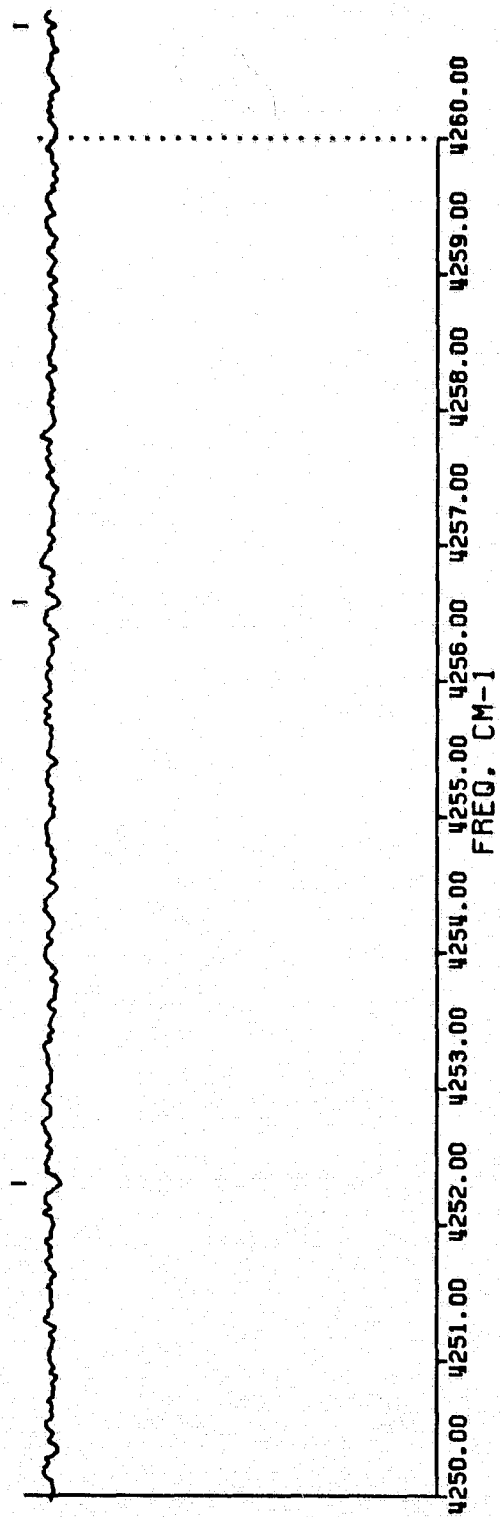
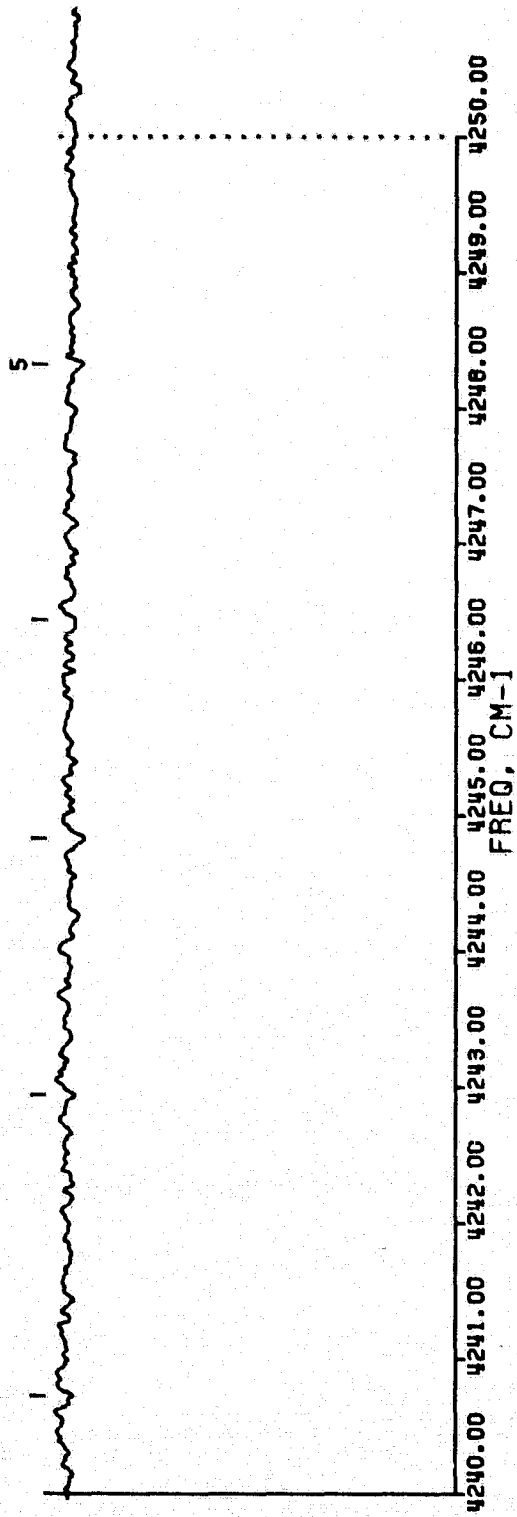
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30

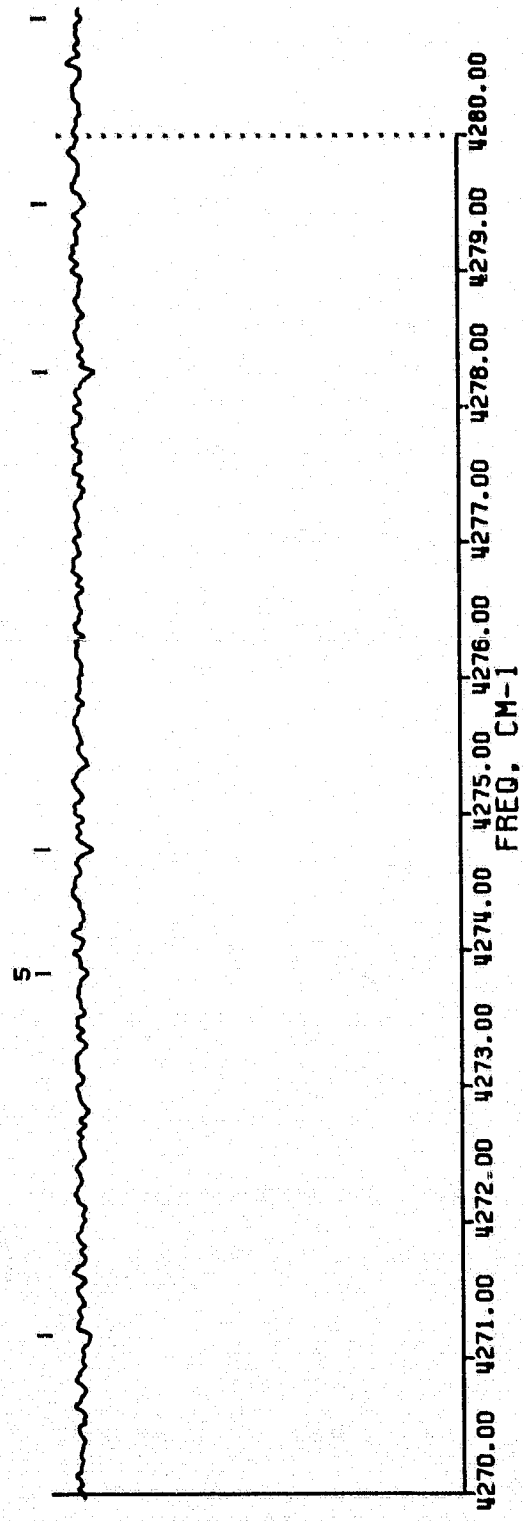
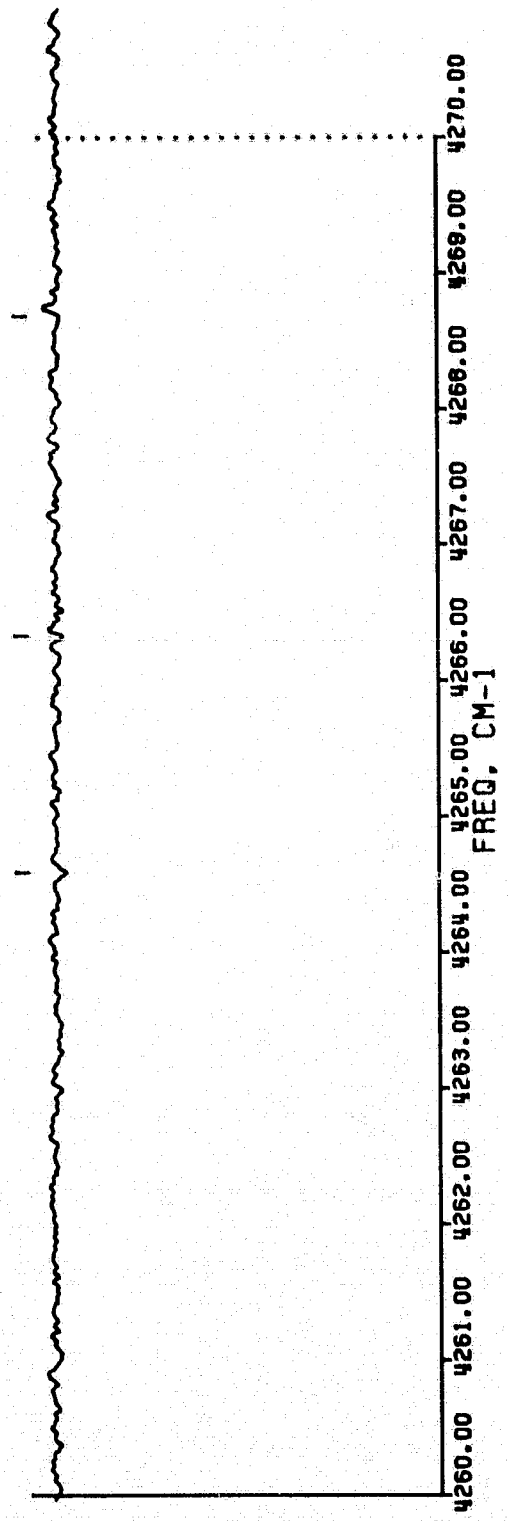
4240.722    4242.933    4244.828    4246.437    4248.320    5  
4252.296    4256.573    4260.823    10

262



4264.589    4266.331    4268.683    4271.171    4273.839    5  
4274.745    4278.261    4279.503    4280.866    10

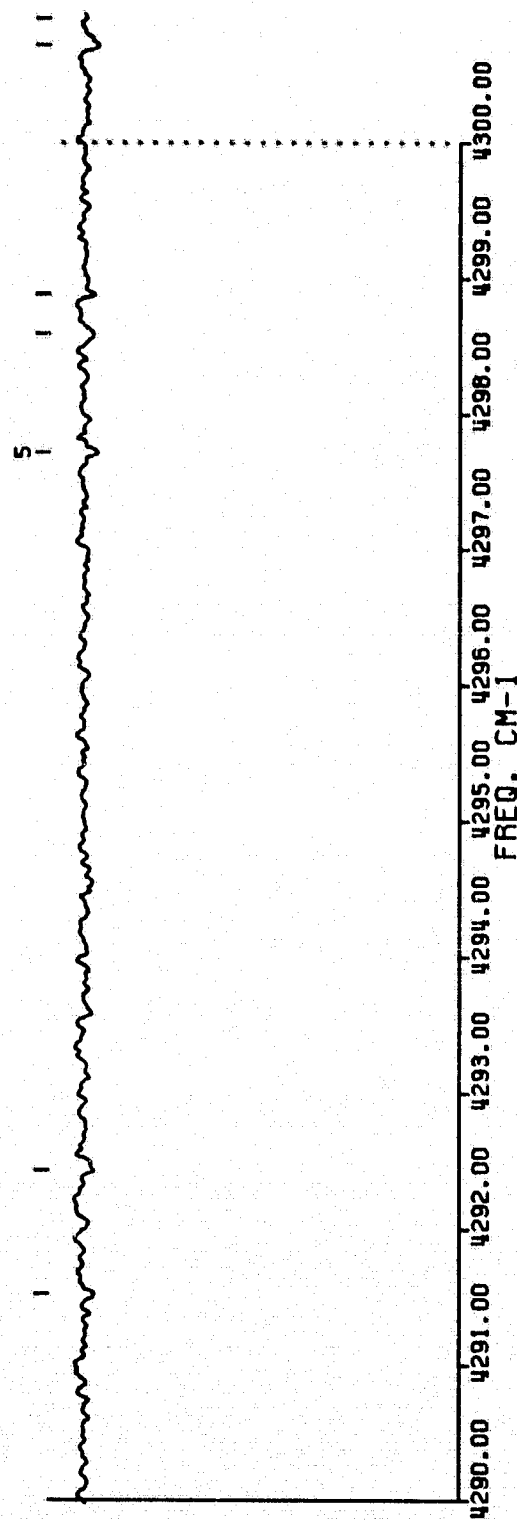
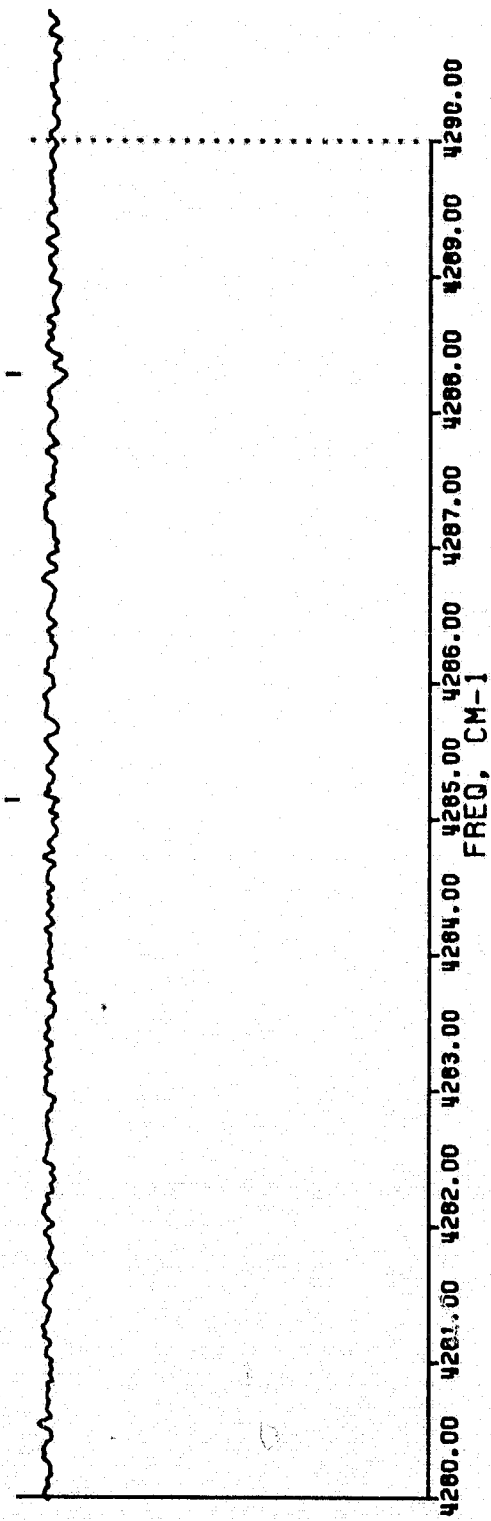
364



265

4285.136	4288.273	4291.523	4292.433	4297.718	5
4298.589	4298.882	4300.718	4300.917		10

364

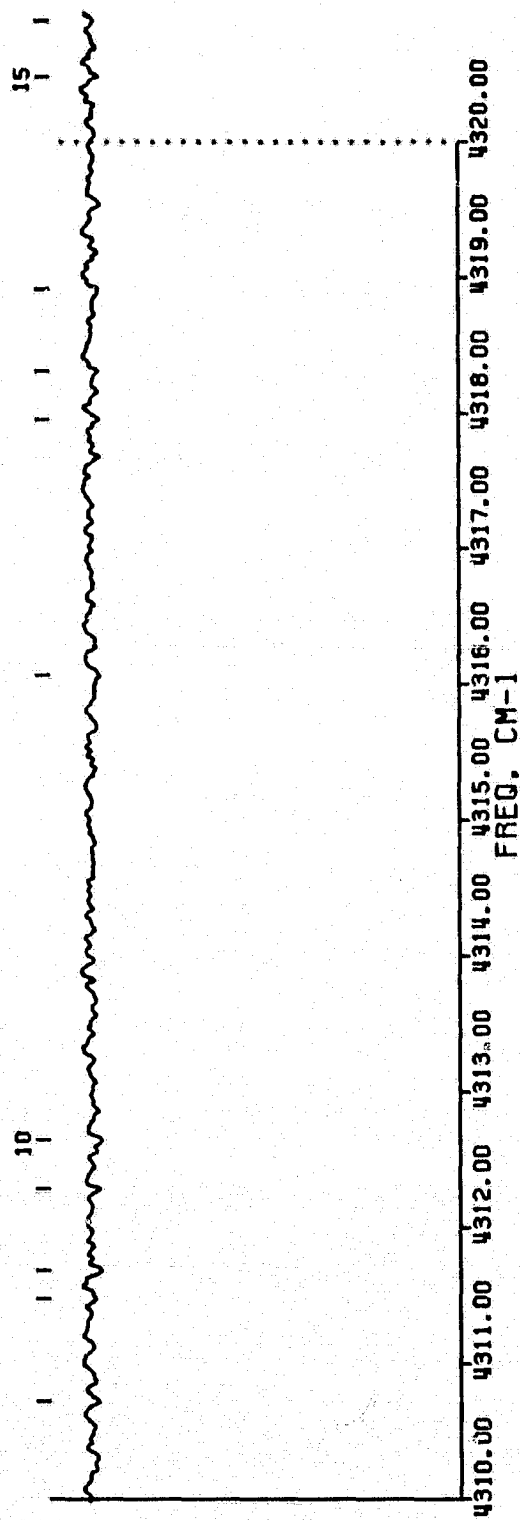
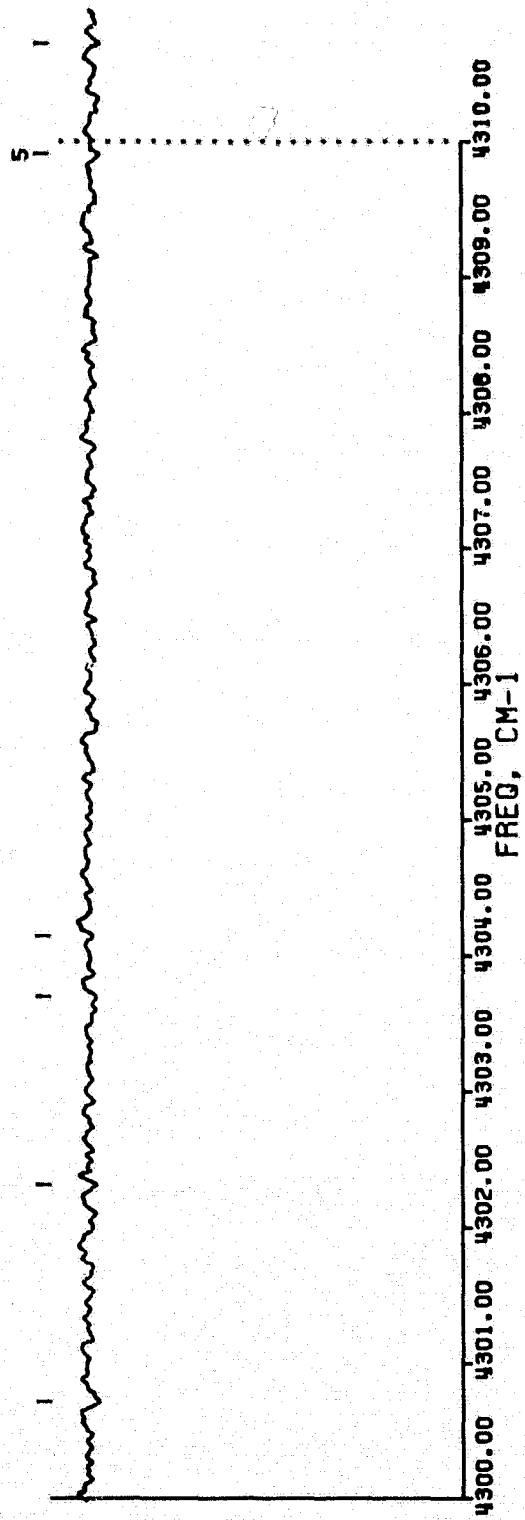


367



4300.714	4302.312	4303.698	4304.148	4309.906	5
4310.722	4311.476	4311.687	4312.288	4312.648	10
4316.070	4317.953	4318.312	4318.913	4320.484	15
4320.898					20

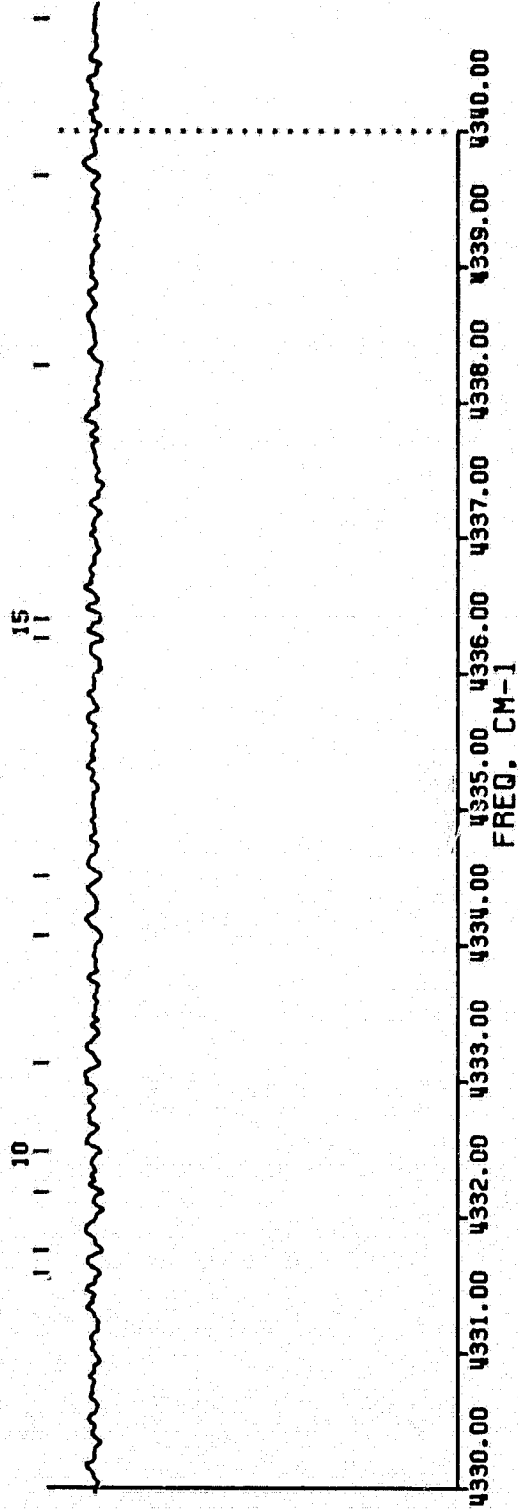
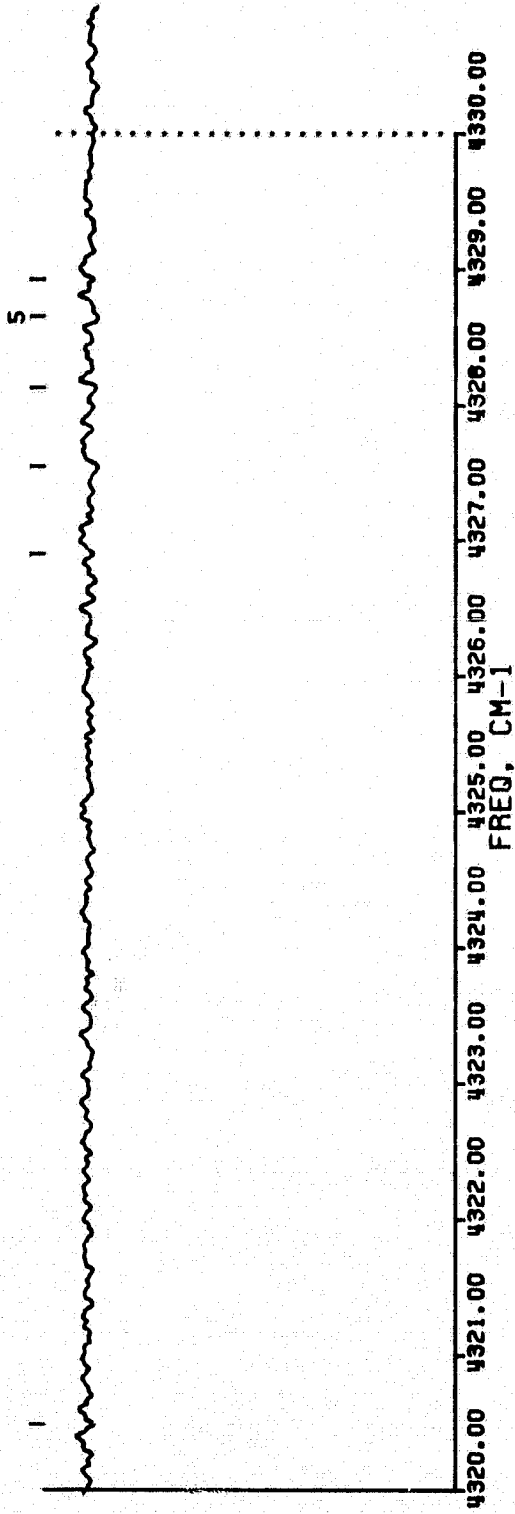
265



325

4320.484	4326.898	4327.538	4328.125	4328.644	5
4328.921	4331.585	4331.753	4332.179	4332.480	10
4333.128	4334.070	4334.507	4336.257	4336.398	15
4338.269	4339.671	4340.823			20

210



52

4346.570

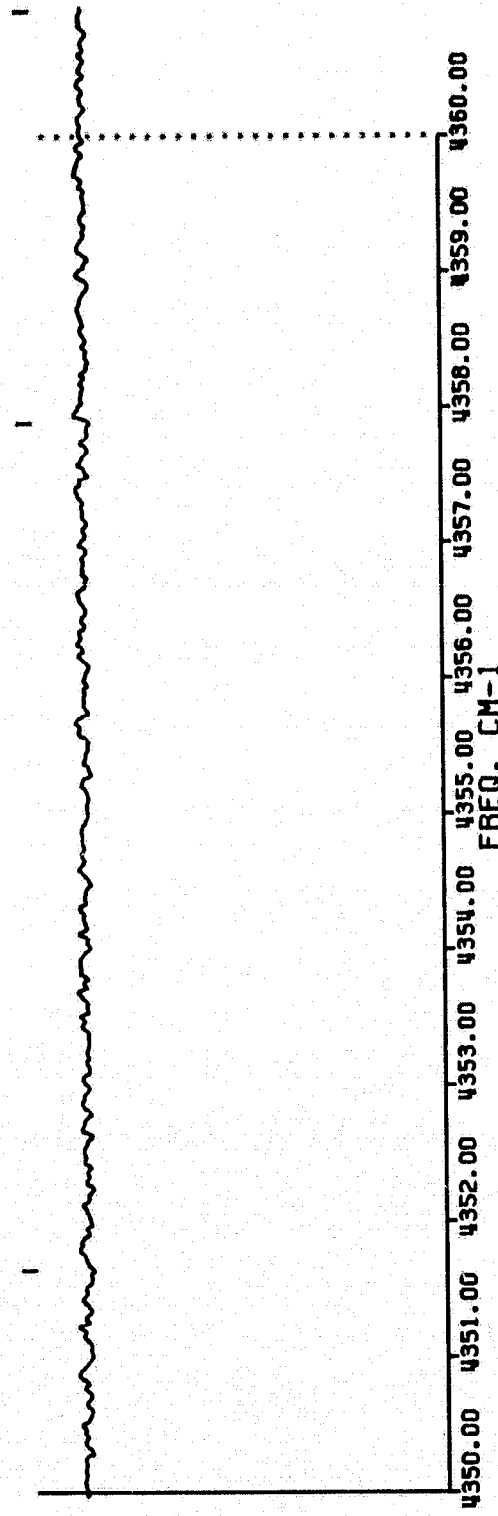
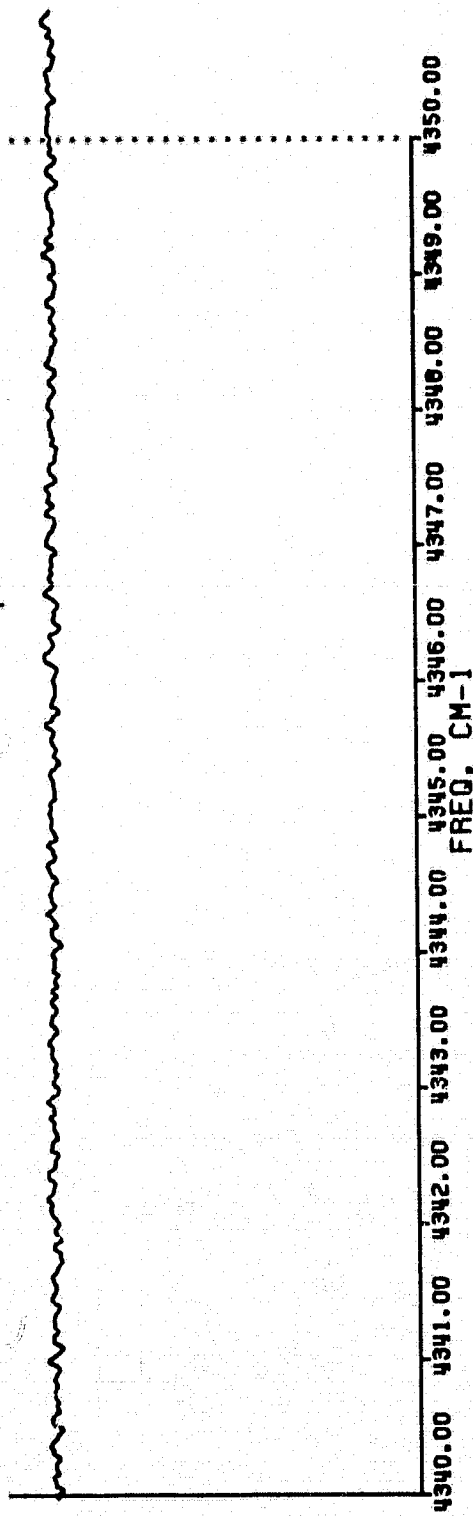
4351.640

4357.882

4360.925

5

467



373

4364.507

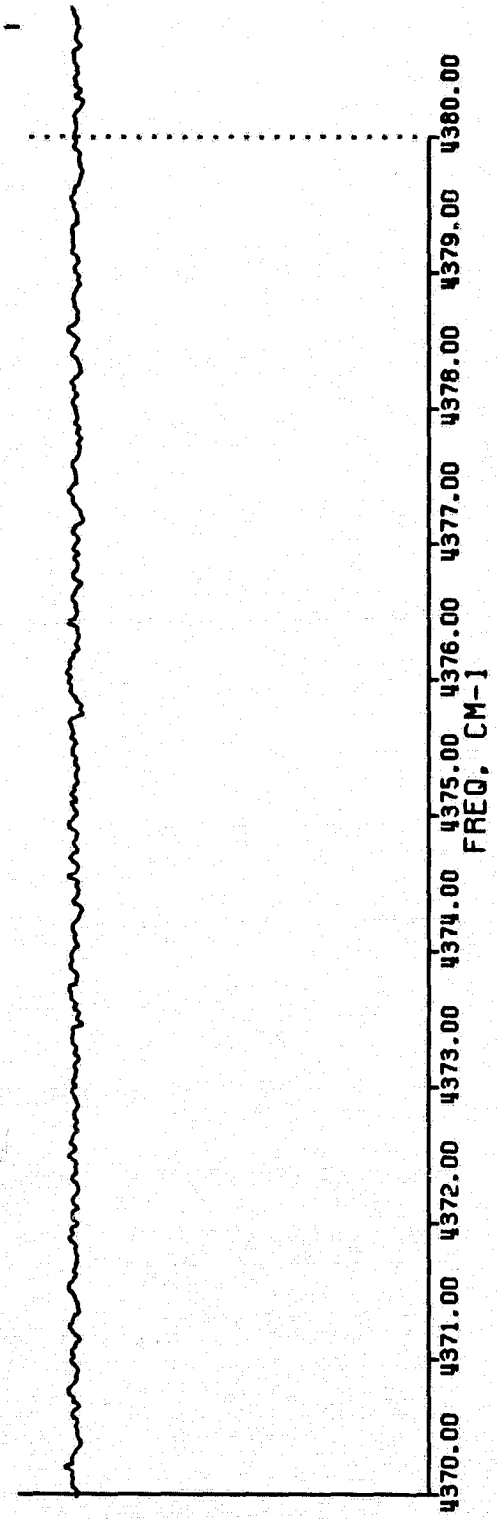
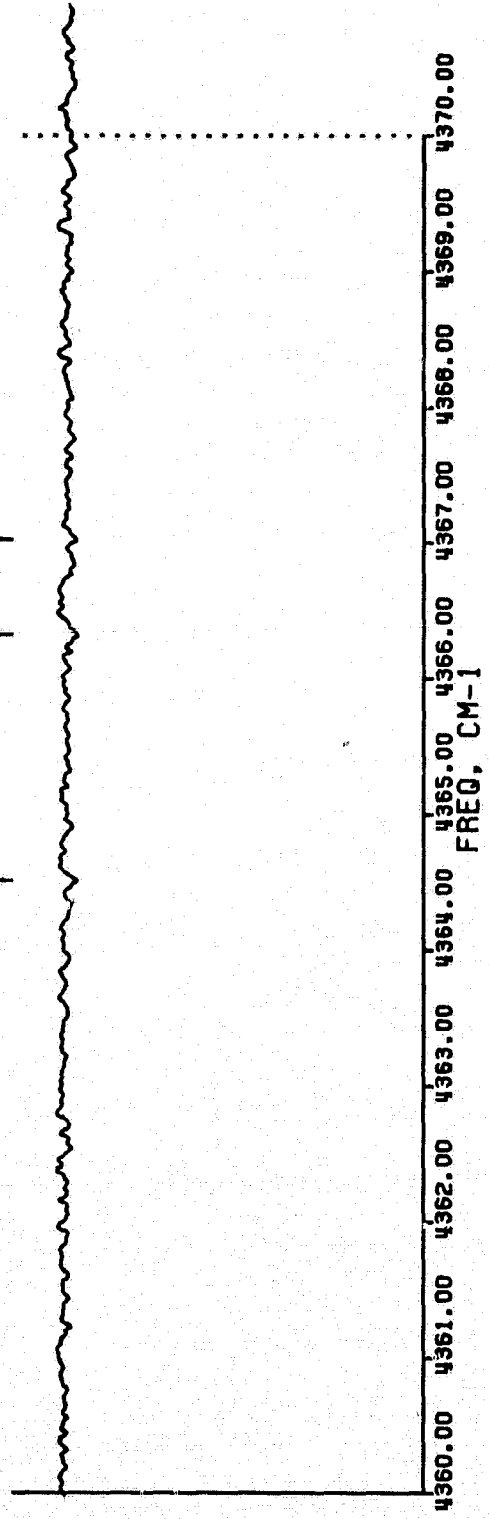
4366.323

4367.023

4380.812

5

374



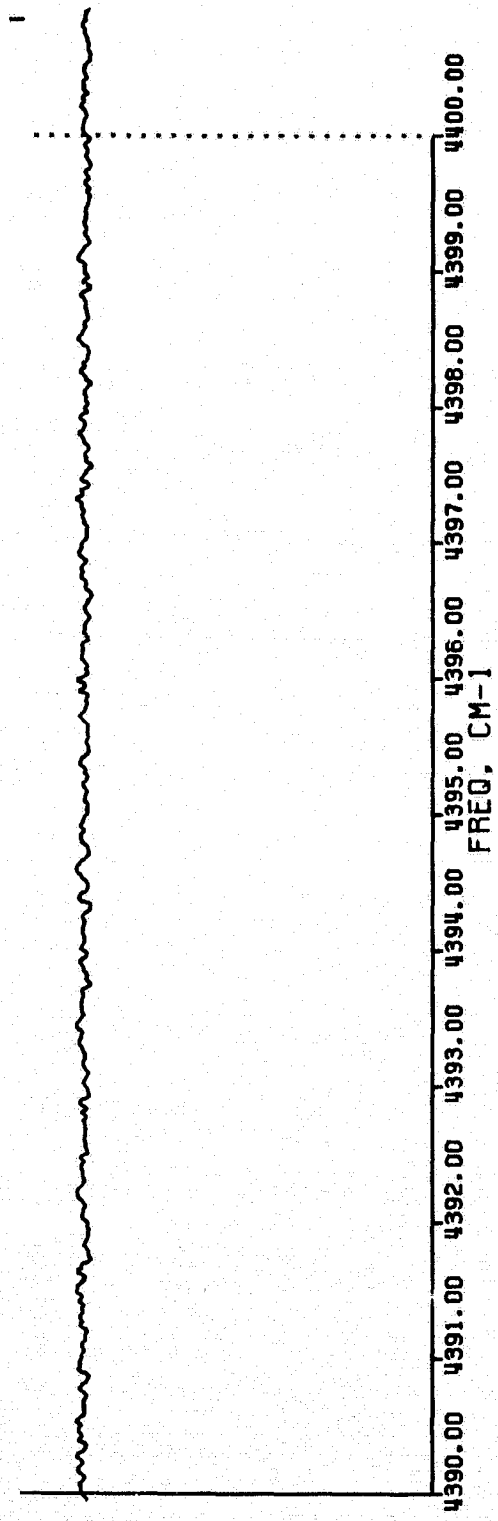
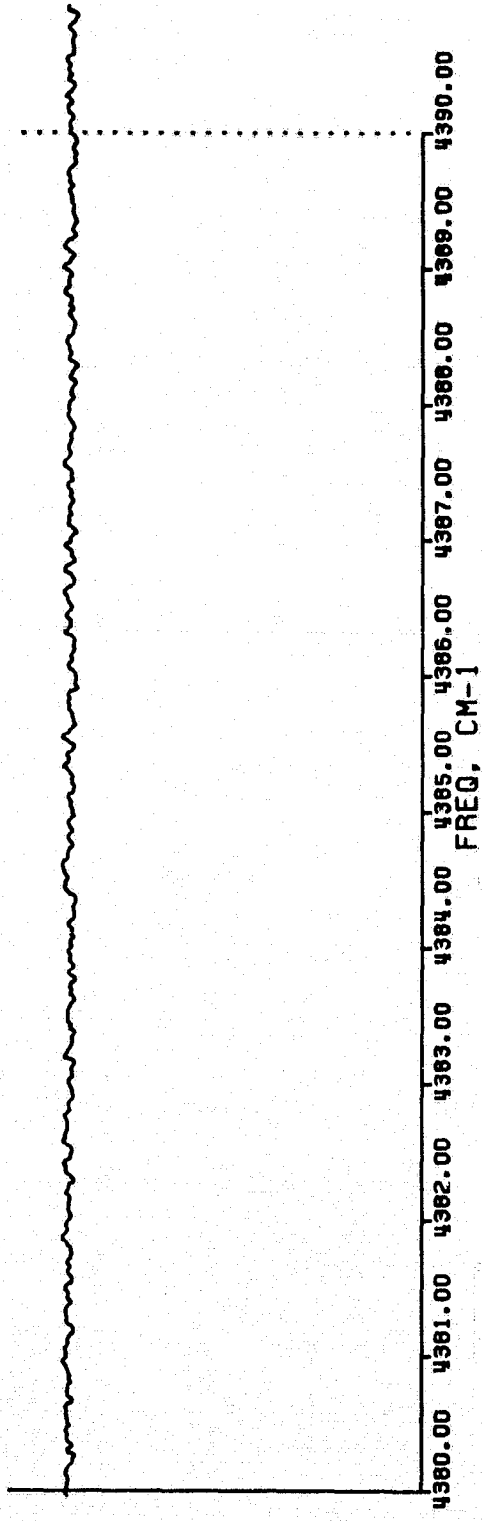
375



4400.855

S

314

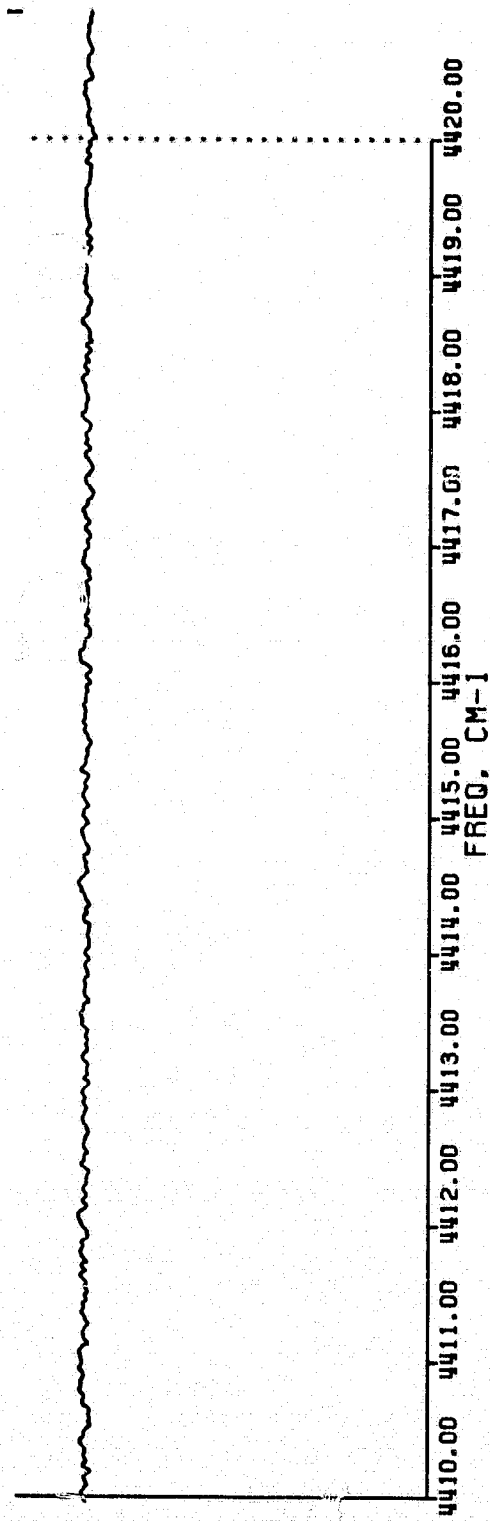
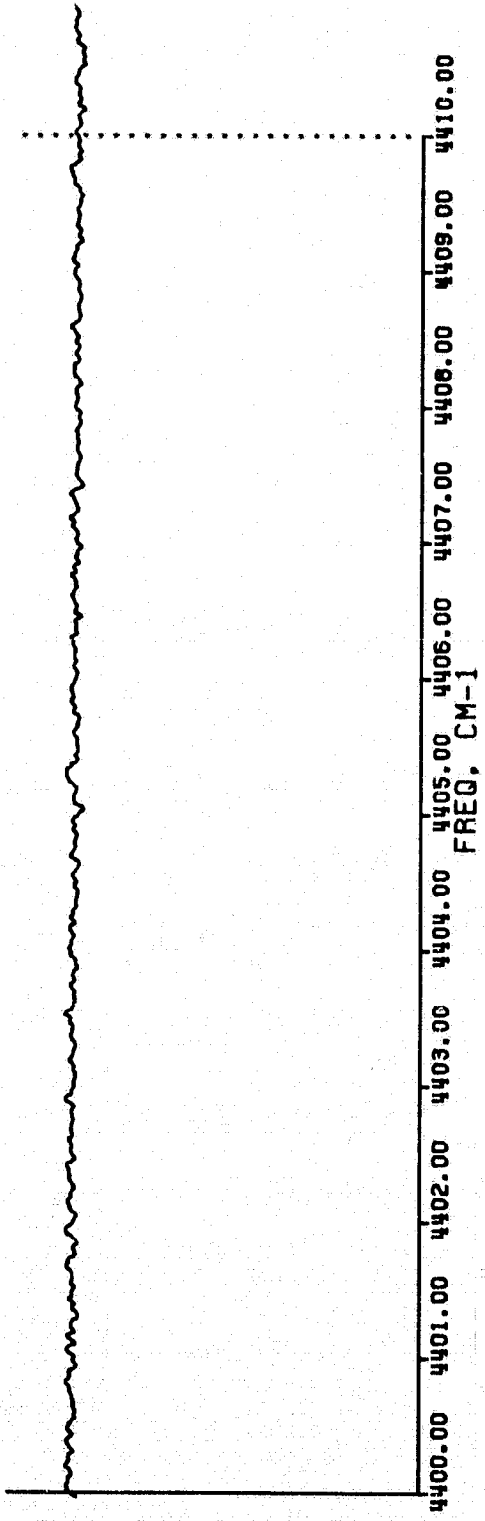


52

5

4420.929

200

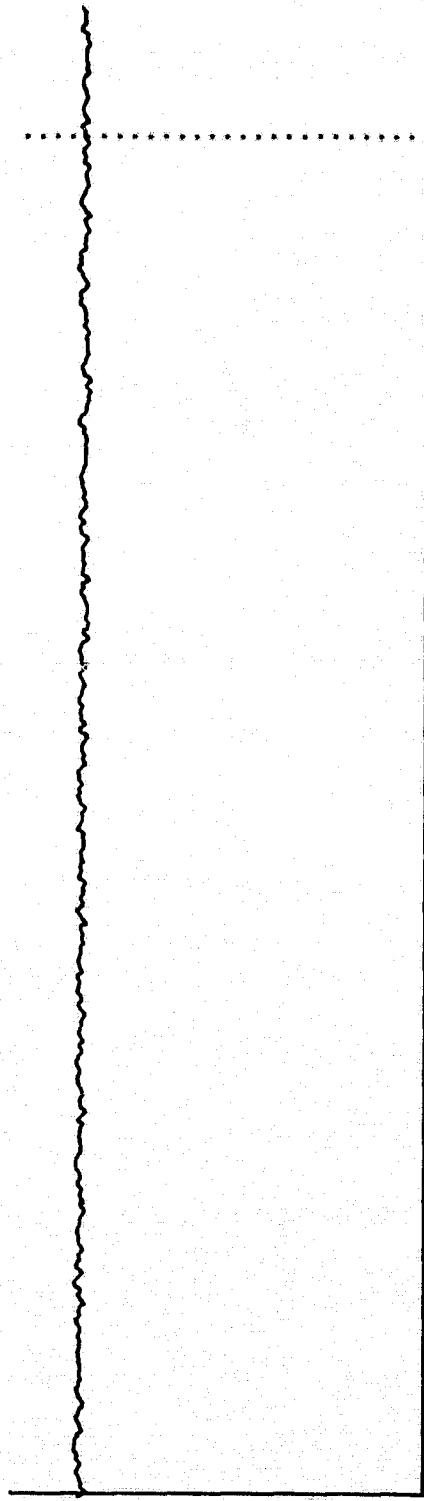


379

5

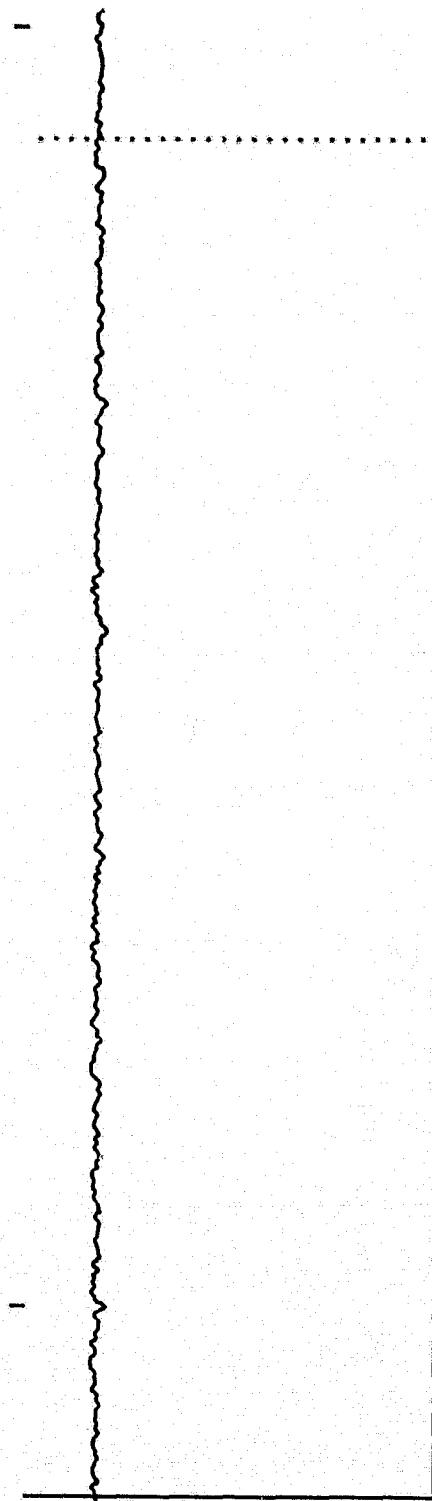
4431.401 4440.828

150



4420.00 4421.00 4422.00 4423.00 4424.00 4425.00 4426.00 4427.00 4428.00 4429.00 4430.00

FREQ, CM-1



4430.00 4431.00 4432.00 4433.00 4434.00 4435.00 4436.00 4437.00 4438.00 4439.00 4440.00

FREQ, CM-1

351

4441.433  
4453.511

4447.429  
4460.875

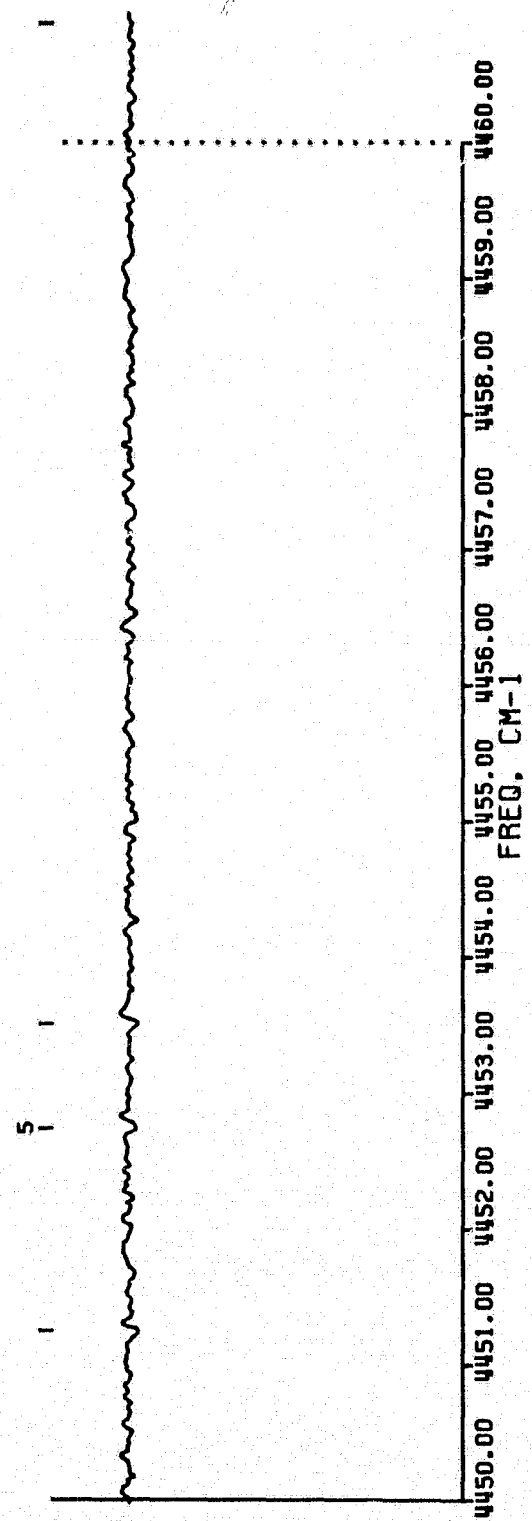
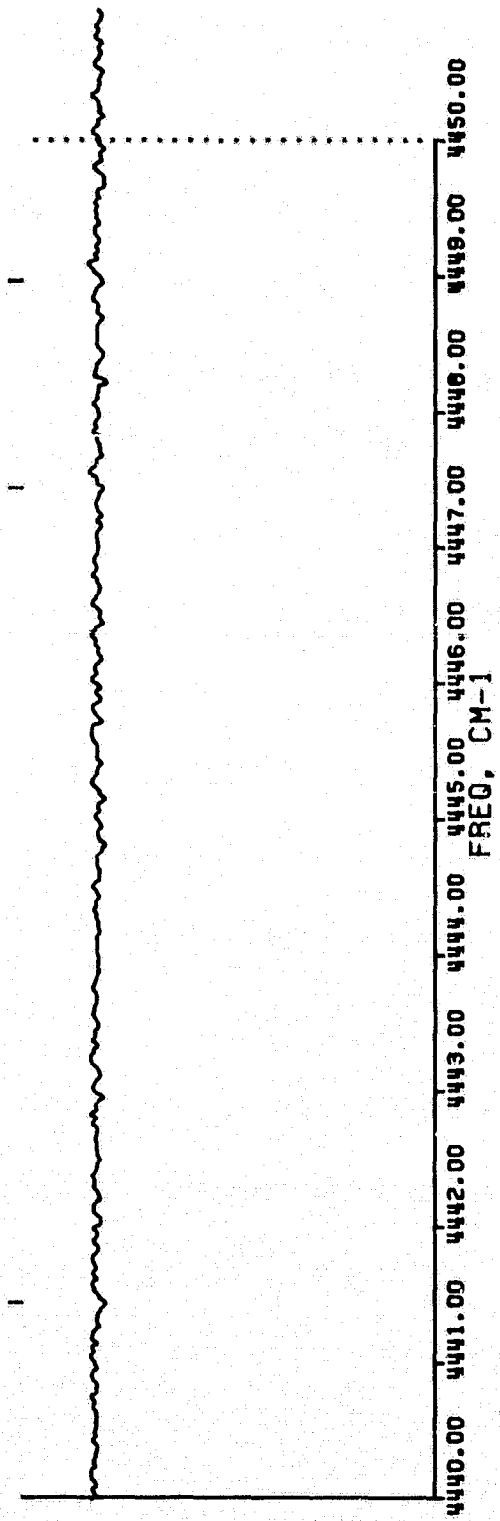
4448.953

4451.245

4452.741

5  
10

427



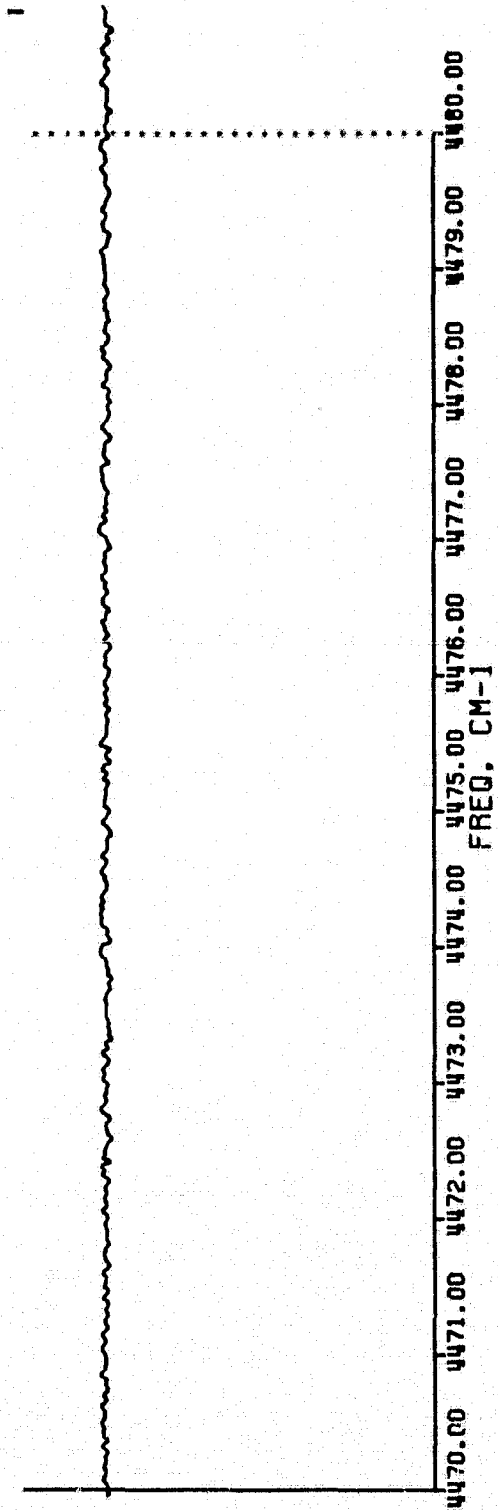
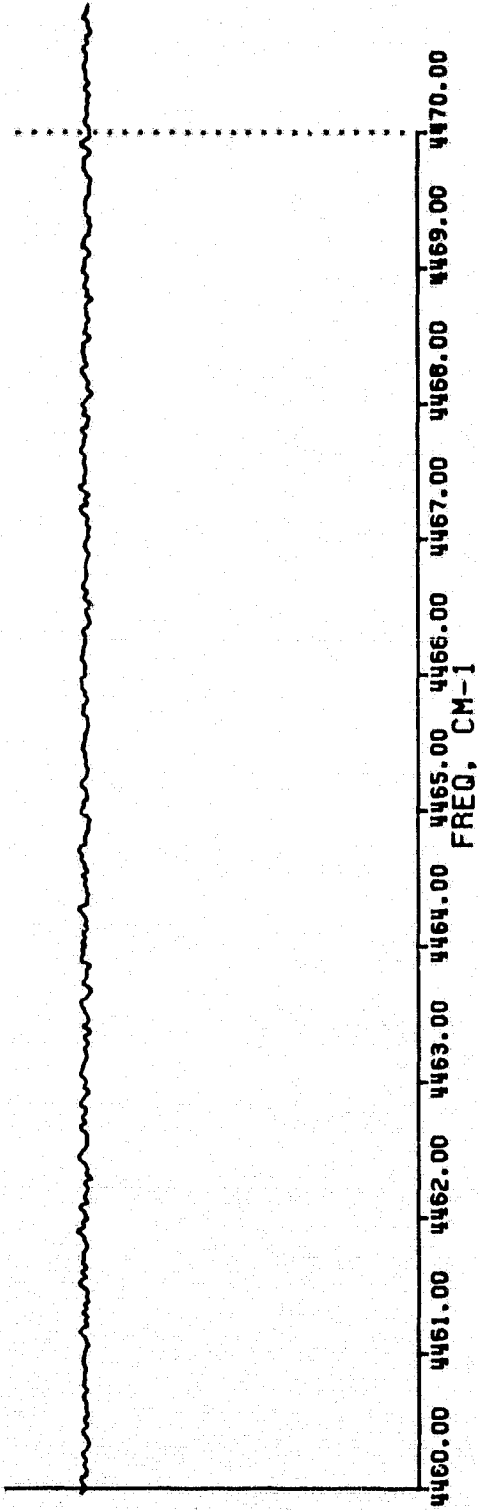
353



4480.898

5

104

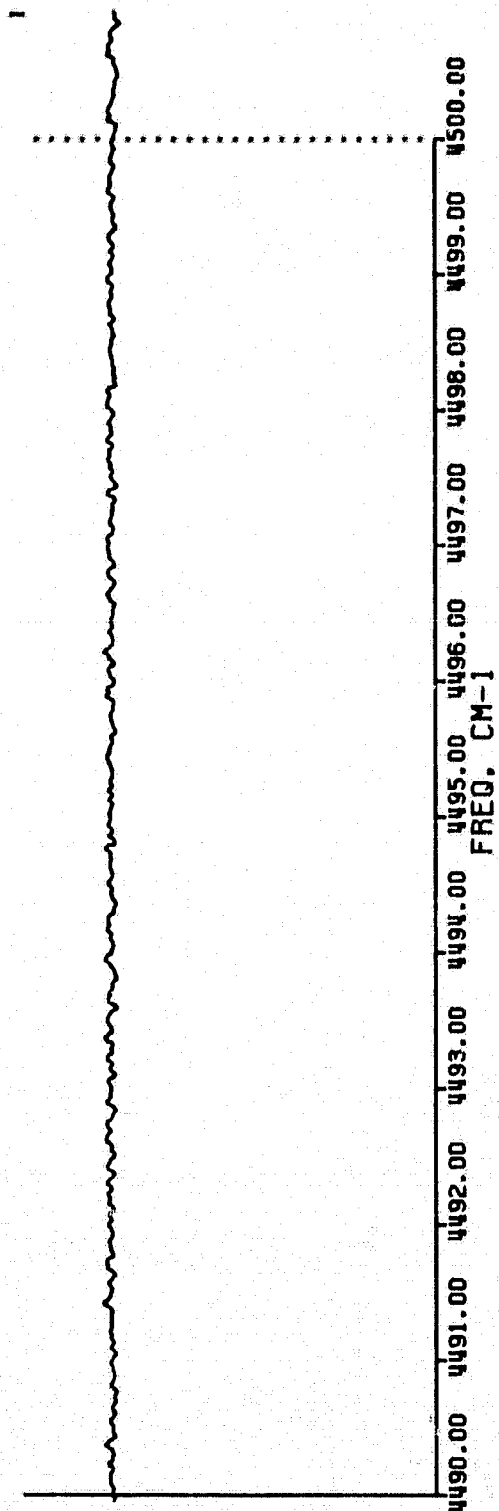
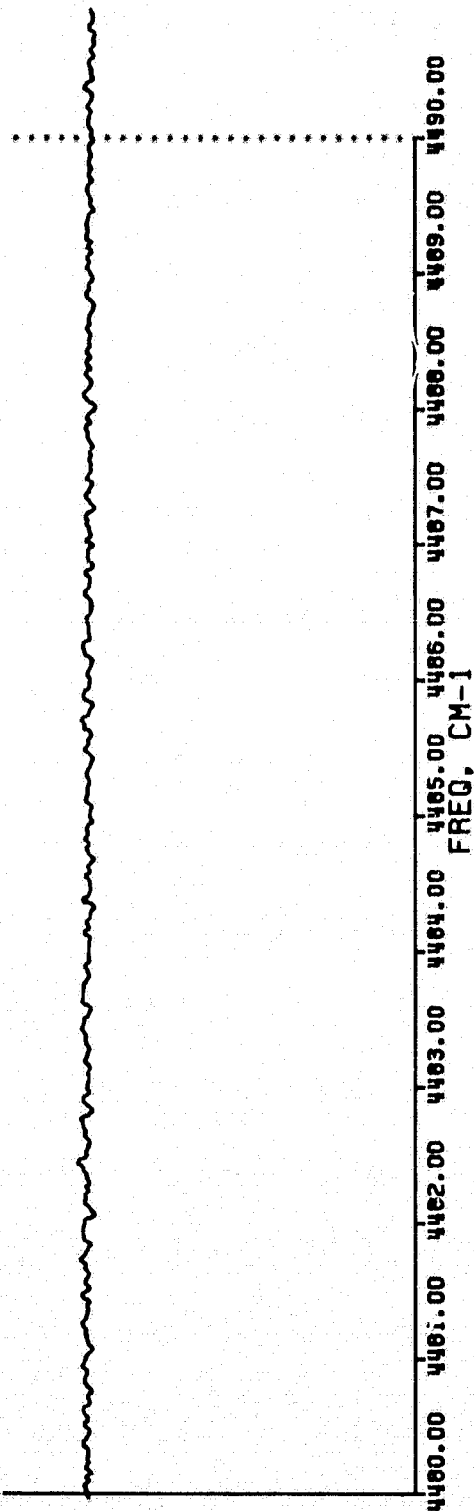


355

5

4500.917

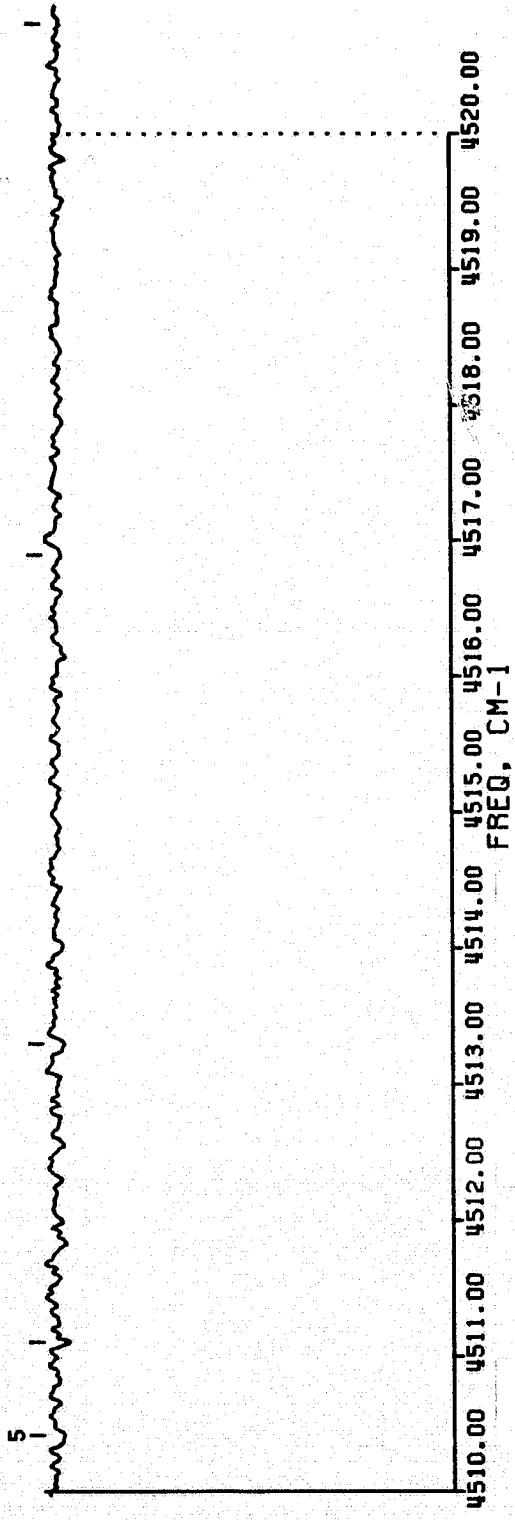
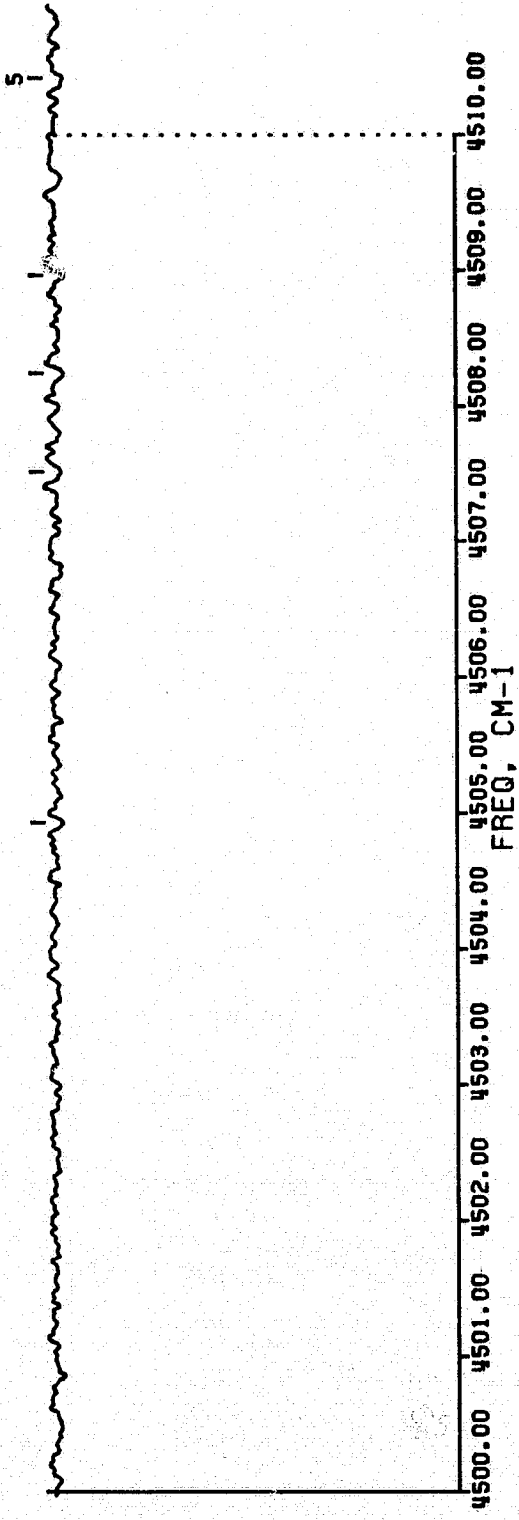
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180

4504.933	4507.511	4508.241	4508.960	4510.417	5
4511.101	4513.300	4516.894	4520.808		10

588



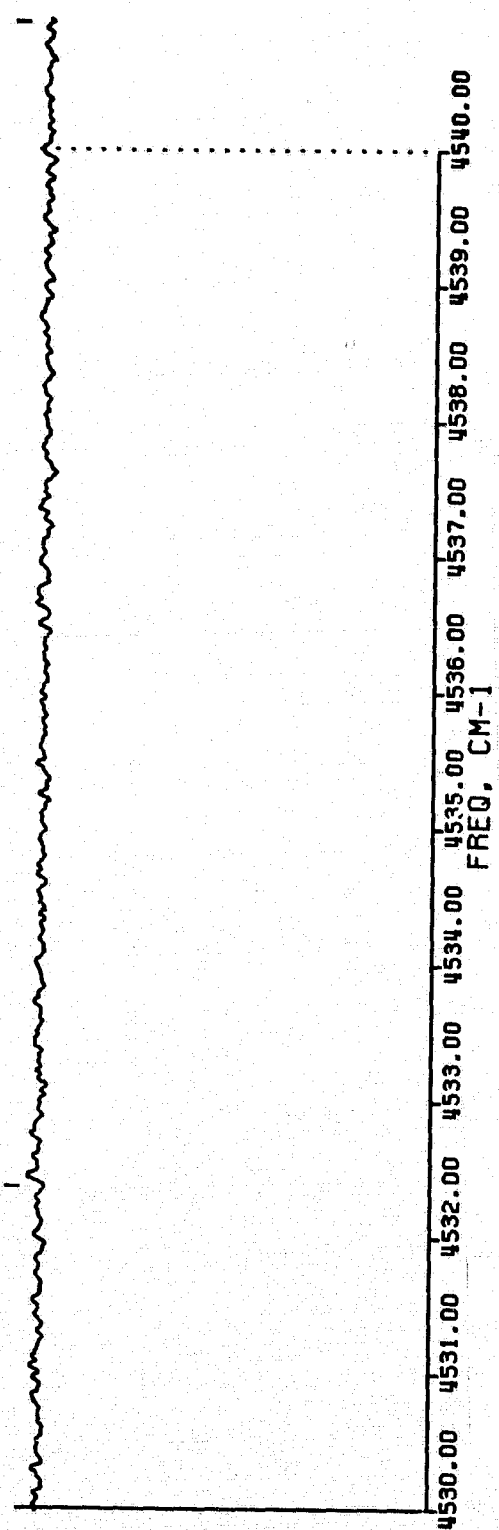
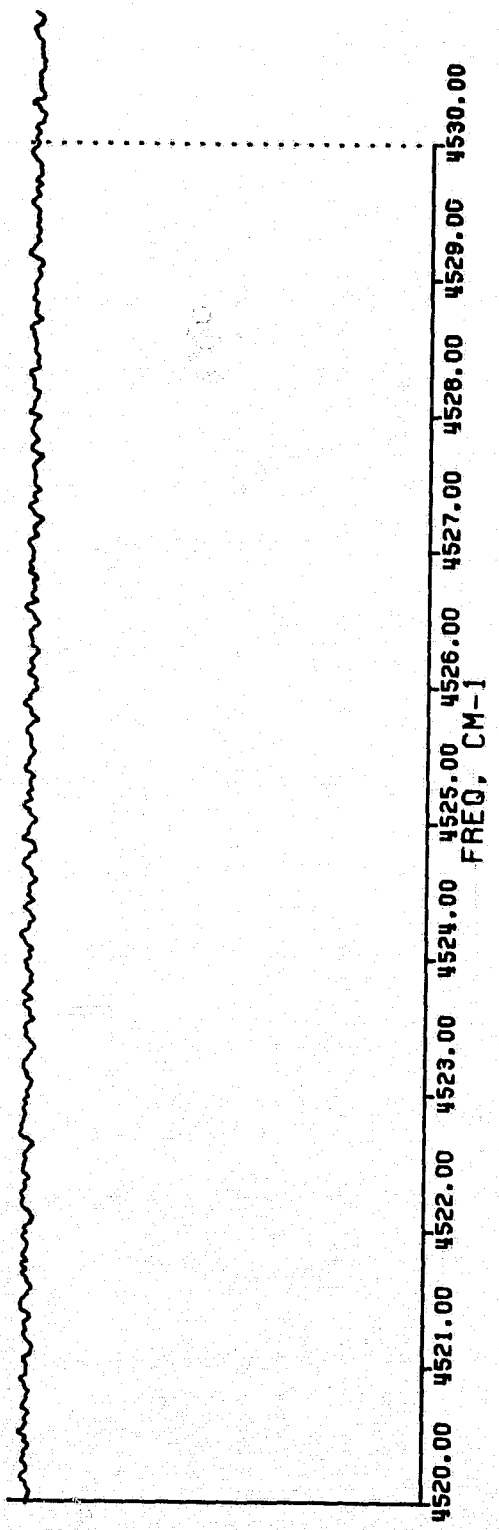
C-5

387

4532.370 4540.937

5

390



391



4549.683

4556.198

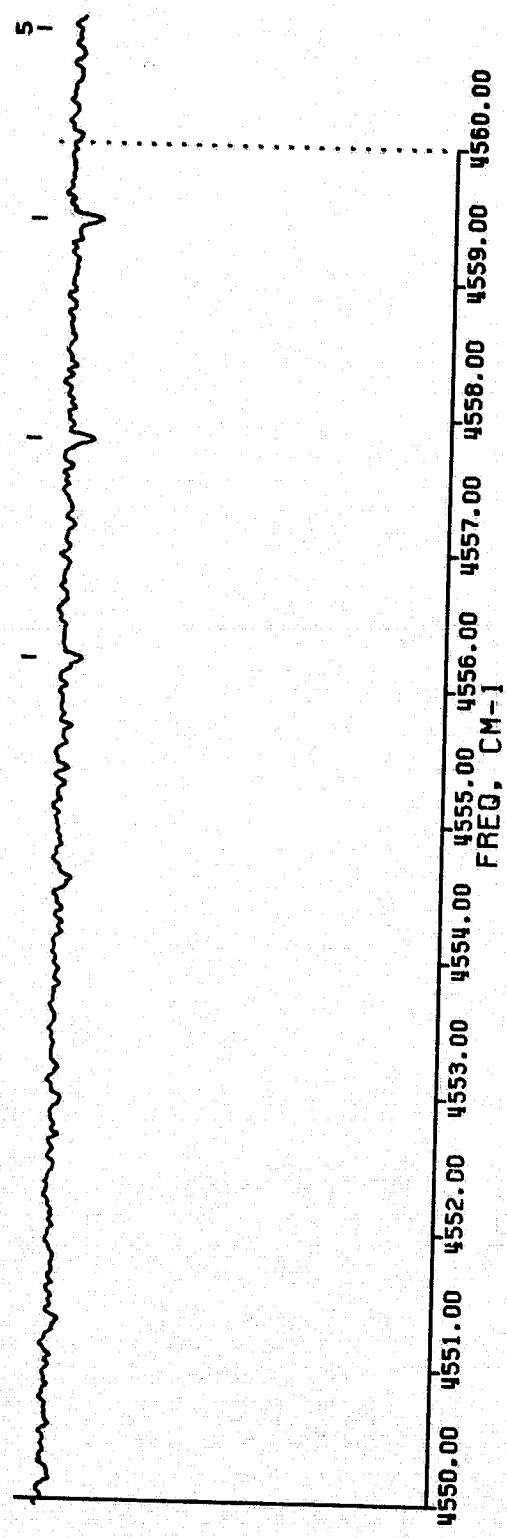
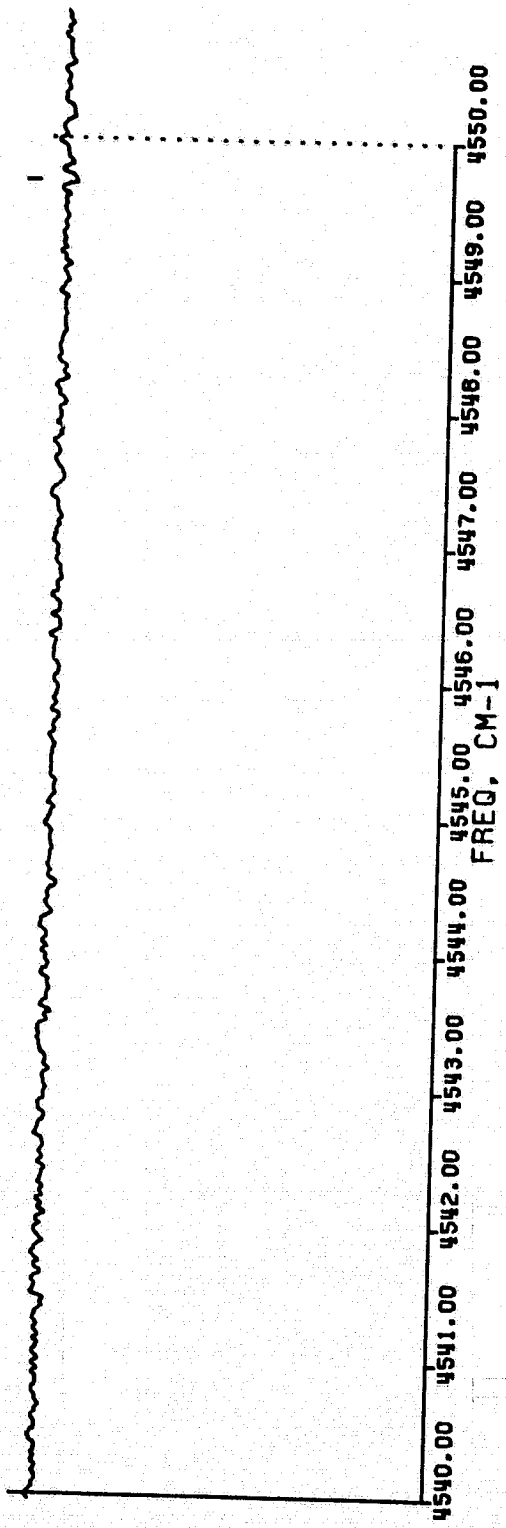
4557.816

4559.433

4560.831

5

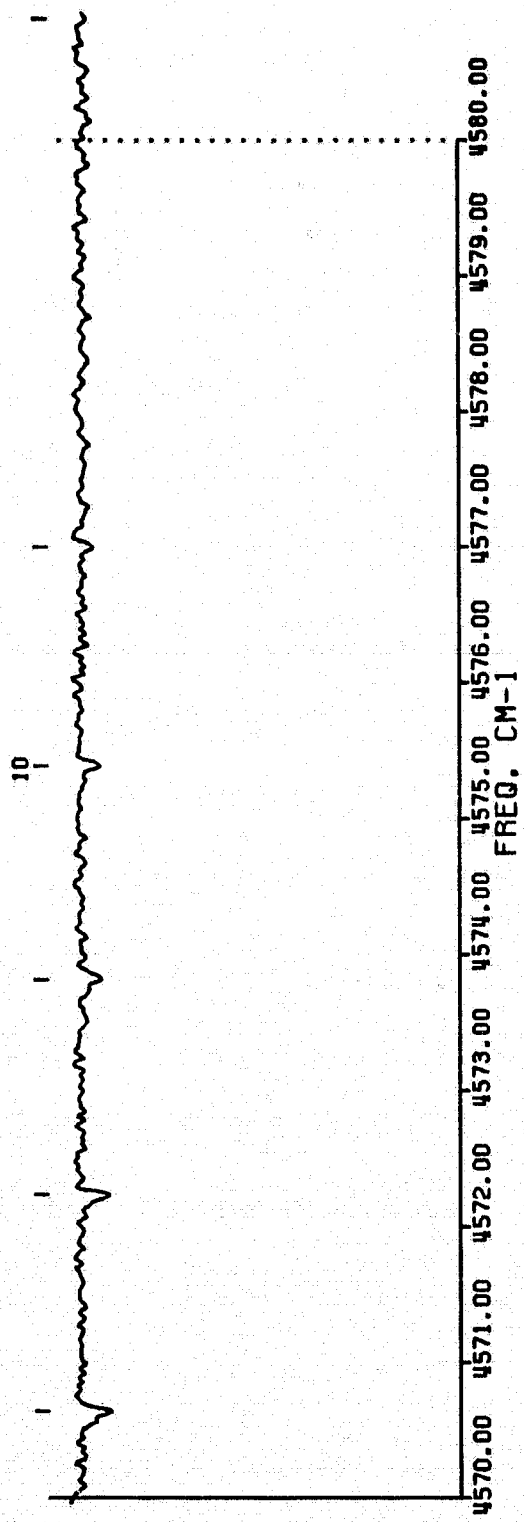
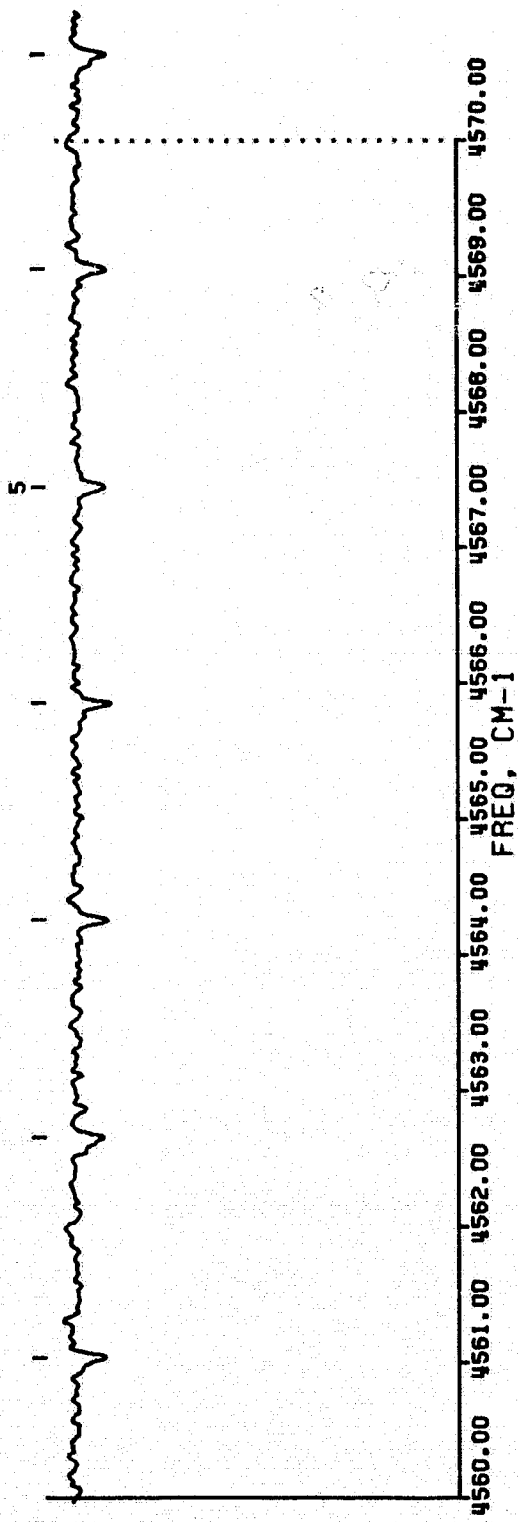
392



1193

4561.035	4562.656	4564.257	4565.851	4567.445	5
4569.050	4570.636	4572.234	4573.820	4575.394	10
4577.003	4580.898				15

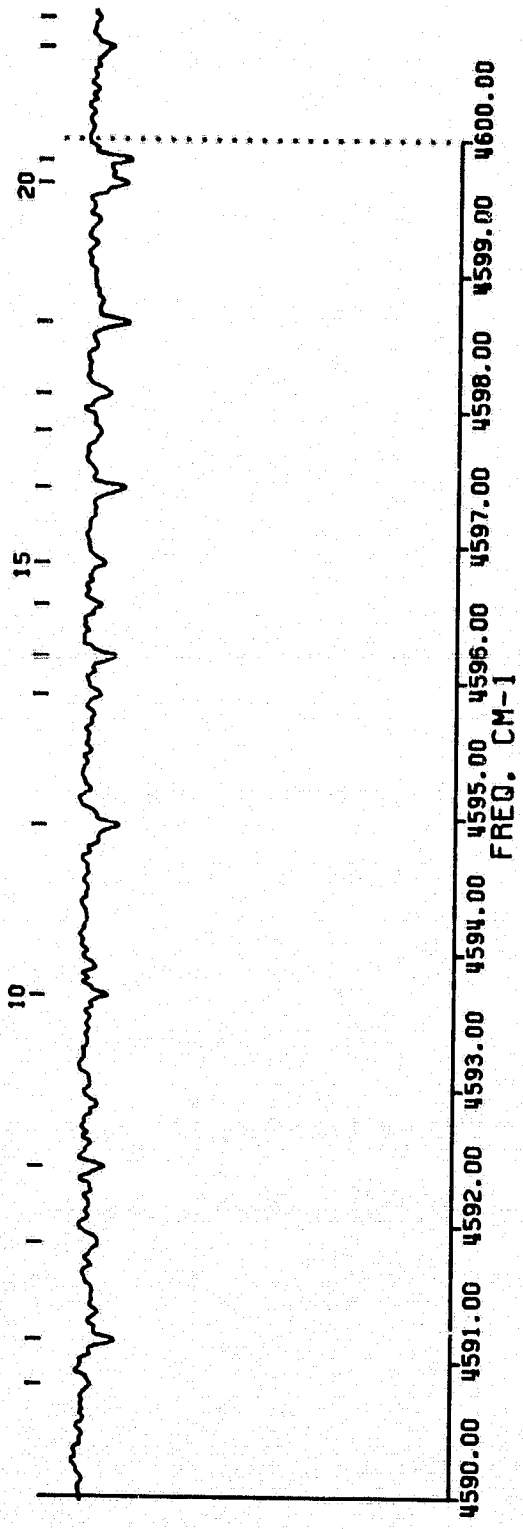
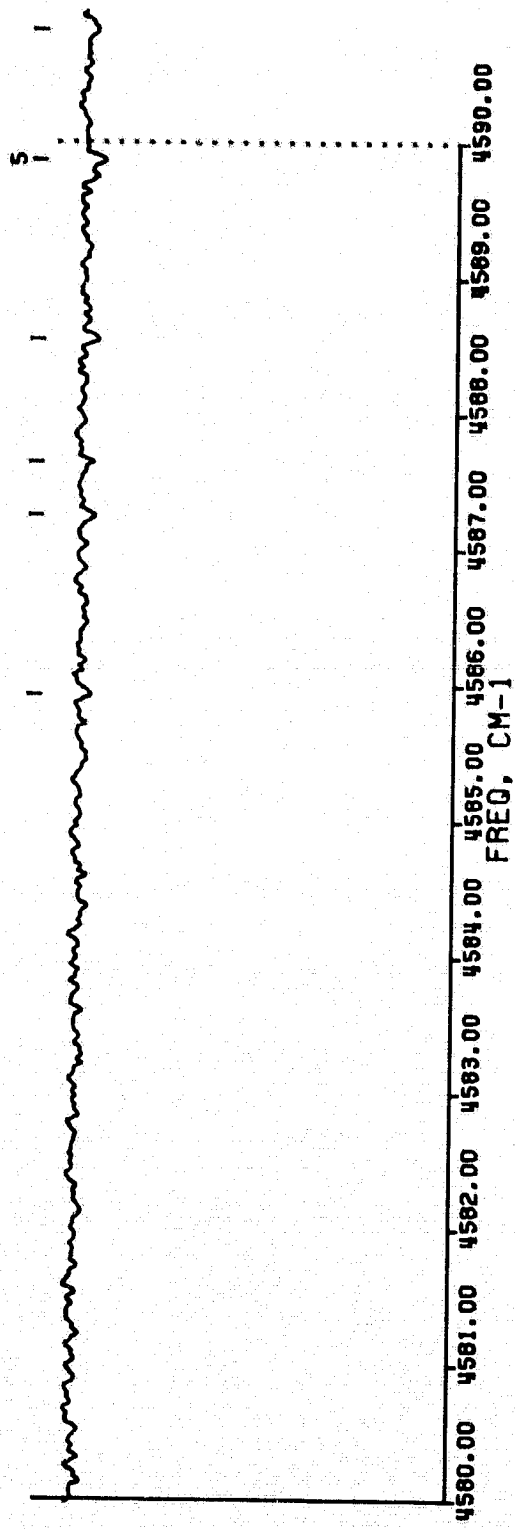
394



395

4585.925	4587.245	4587.640	4588.542	4589.866	5
4590.828	4591.156	4591.870	4592.433	4593.695	10
4594.945	4595.901	4596.191	4596.566	4596.875	15
4597.429	4597.851	4598.125	4598.644	4599.675	20
4599.847	4600.679	4600.894			25

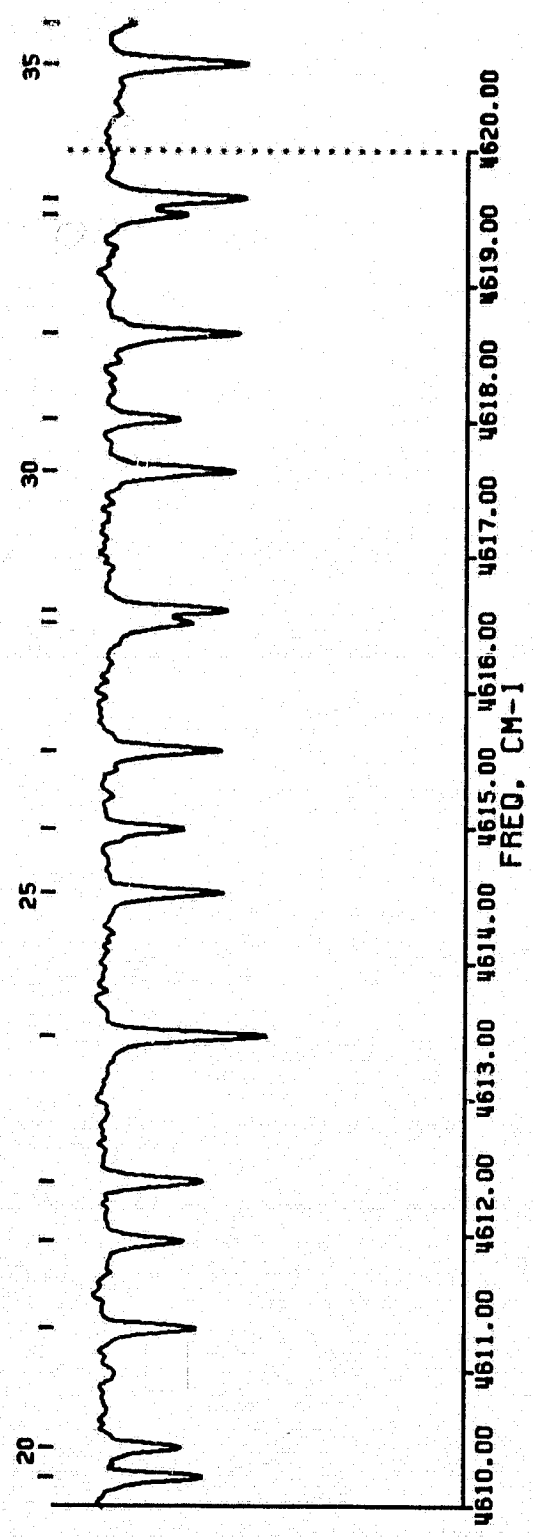
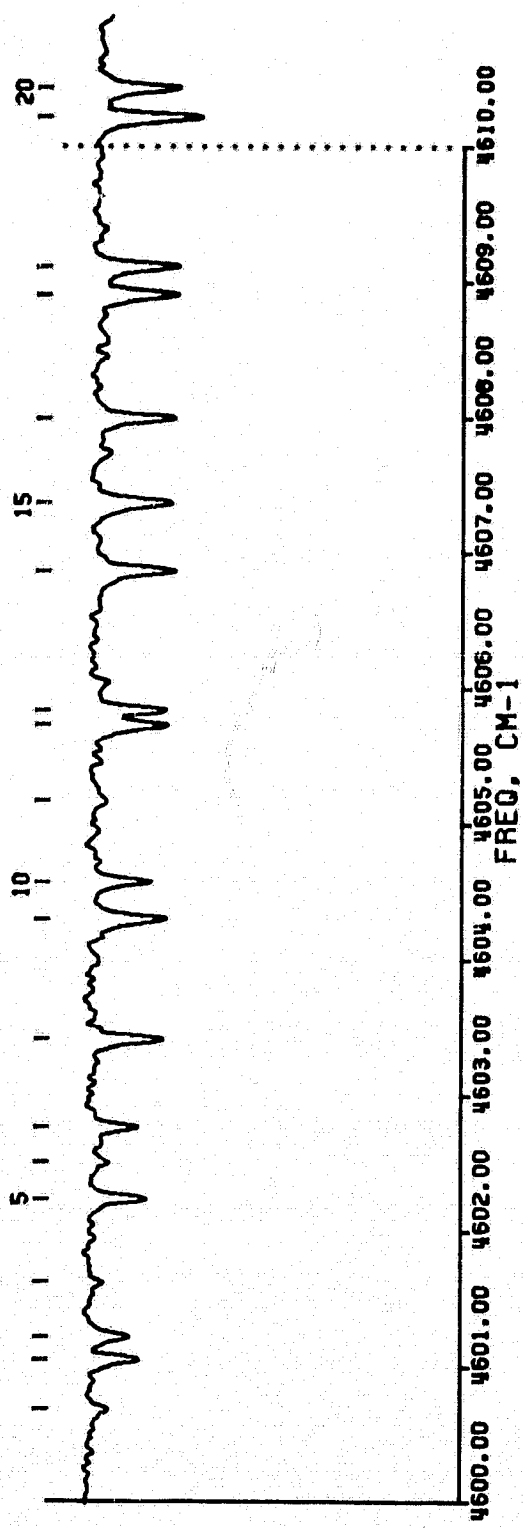
396



397

4600.679	4601.046	4601.214	4601.616	4602.230	5
4602.500	4602.761	4603.410	4604.296	4604.570	10
4605.171	4605.726	4605.835	4606.863	4607.366	15
4607.991	4608.901	4609.113	4610.214	4610.429	20
4611.308	4611.953	4612.390	4613.464	4614.523	25
4614.991	4615.570	4616.511	4616.605	4617.632	30
4618.015	4618.644	4619.519	4619.644	4620.636	35
4620.937					40

348

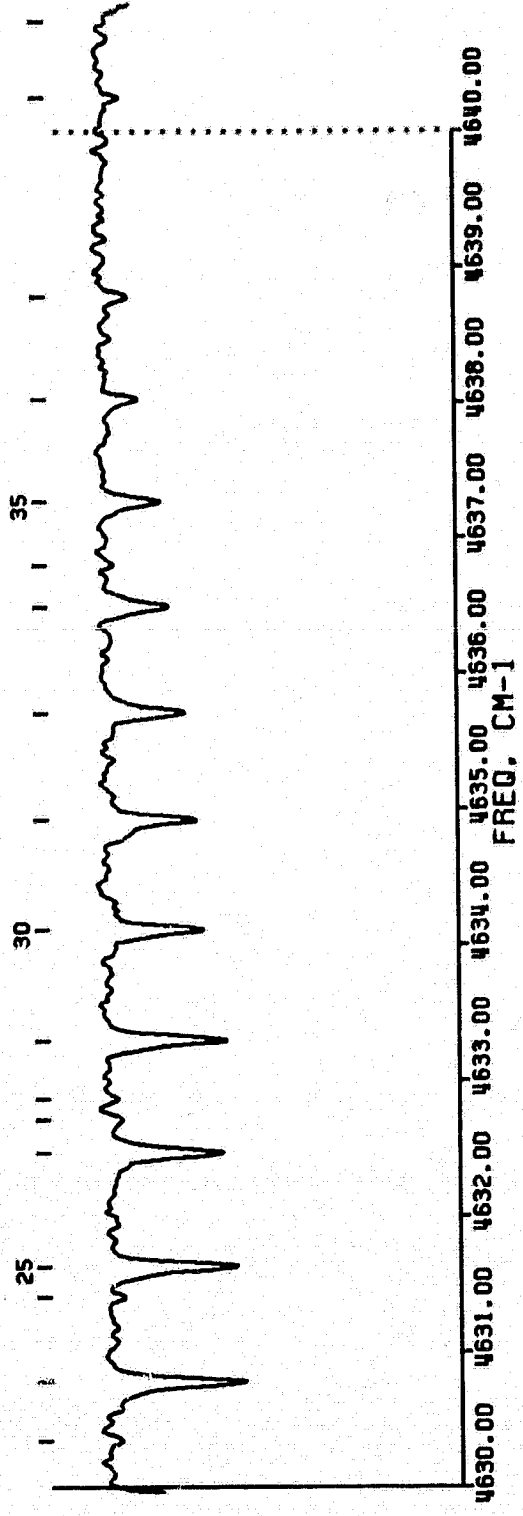
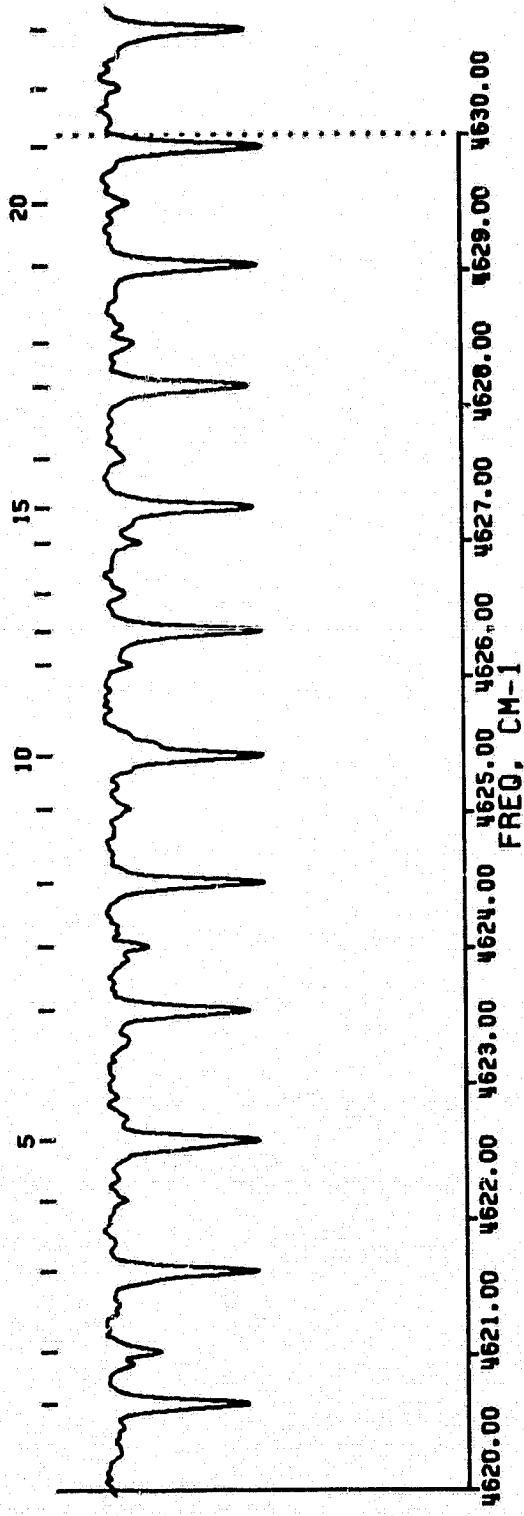


399



4620.636	4621.026	4621.616	4622.140	4622.585	5
4623.542	4624.011	4624.484	4625.031	4625.421	10
4626.089	4626.339	4626.620	4626.991	4627.250	15
4627.609	4628.144	4628.464	4629.035	4629.495	20
4629.913	4630.343	4630.776	4631.401	4631.628	25
4632.464	4632.710	4632.866	4633.292	4634.109	30
4634.921	4635.710	4636.491	4636.800	4637.265	35
4638.023	4638.781	4640.250	4640.812		40

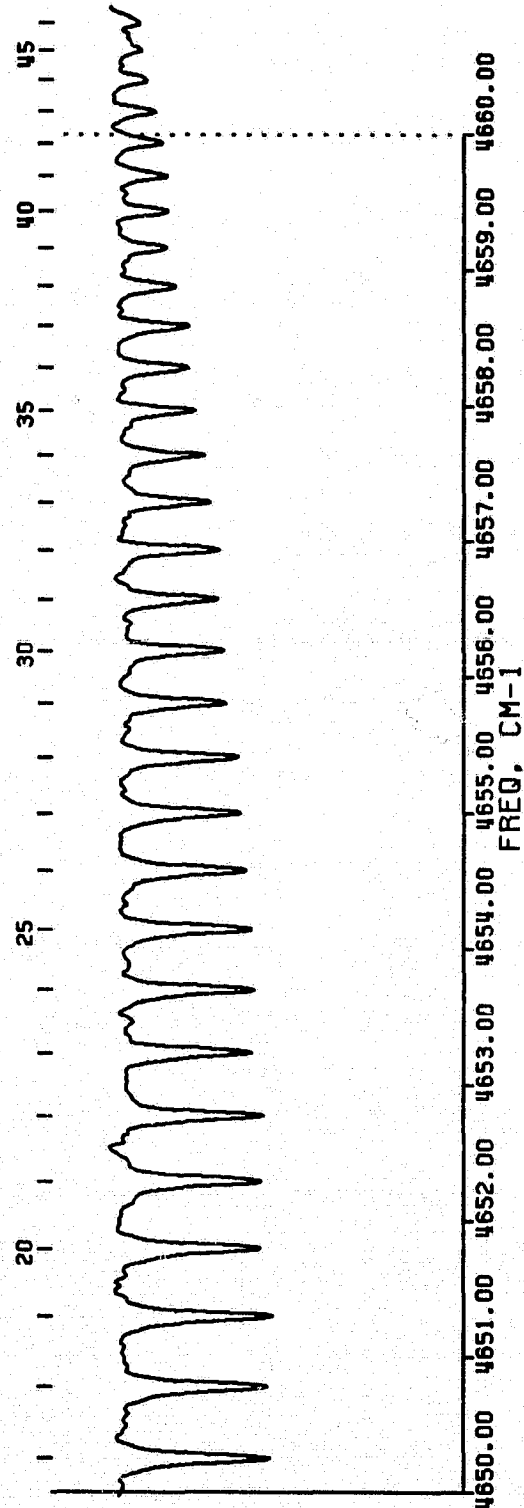
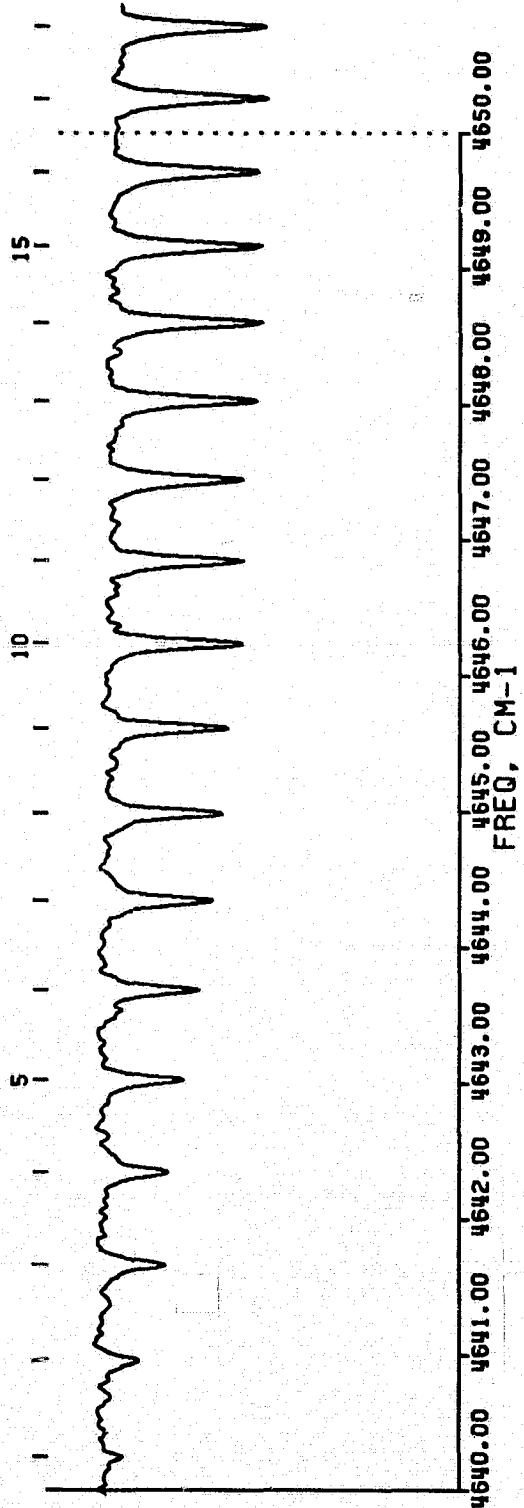
400



401

4640.250	4640.953	4641.656	4642.339	4643.019	5
4643.683	4644.343	4644.984	4645.613	4646.238	10
4646.847	4647.445	4648.026	4648.597	4649.163	15
4649.714	4650.253	4650.781	4651.296	4651.796	20
4652.292	4652.776	4653.238	4653.703	4654.148	25
4654.581	4655.003	4655.413	4655.812	4656.198	30
4656.578	4656.941	4657.292	4657.636	4657.968	35
4658.281	4658.589	4658.882	4659.167	4659.437	40
4659.695	4659.937	4660.171	4660.401	4660.620	45
4660.823					50

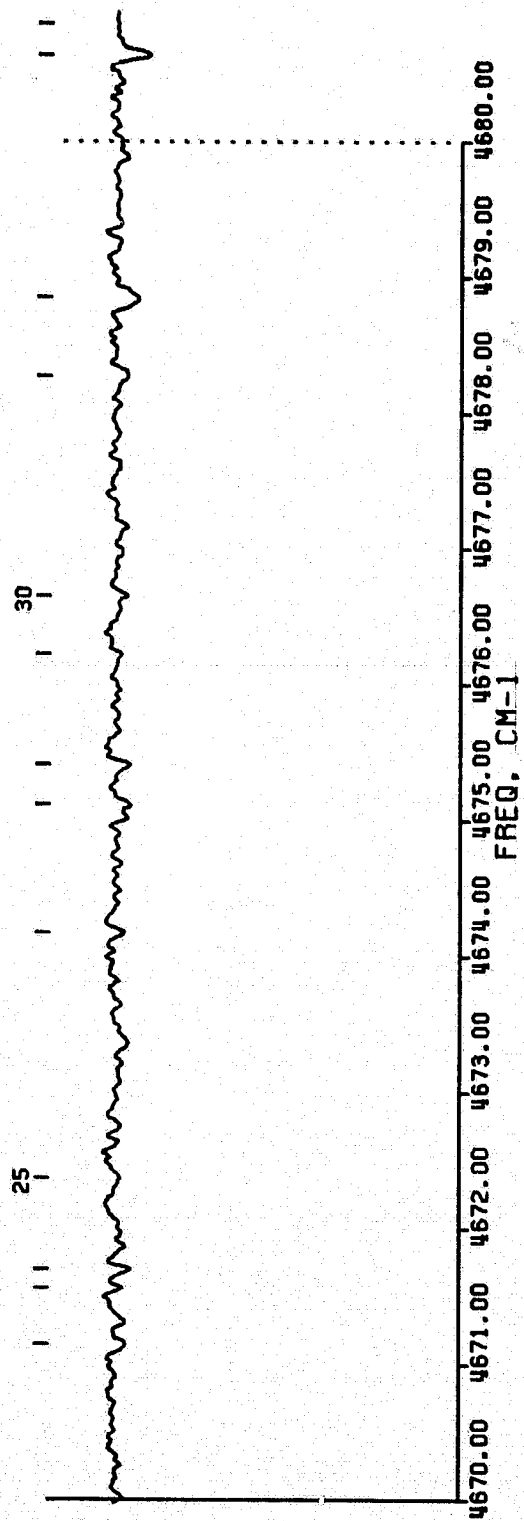
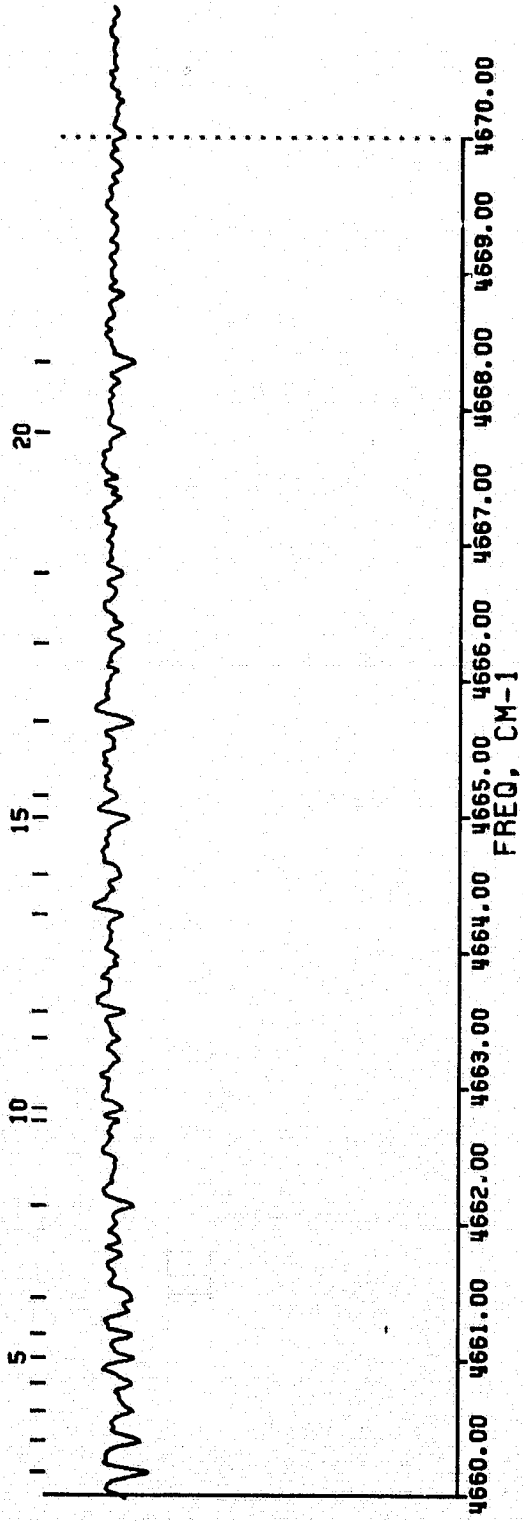
402



403

4660.167	4660.401	4660.620	4660.823	4661.011	5
4661.183	4661.453	4662.132	4662.753	4662.847	10
4663.363	4663.558	4664.269	4664.570	4664.984	15
4665.148	4665.691	4666.265	4666.788	4667.823	20
4668.339	4671.144	4671.558	4671.698	4672.370	25
4674.175	4675.116	4675.413	4676.226	4676.656	30
4678.269	4678.847	4680.636	4680.866		35

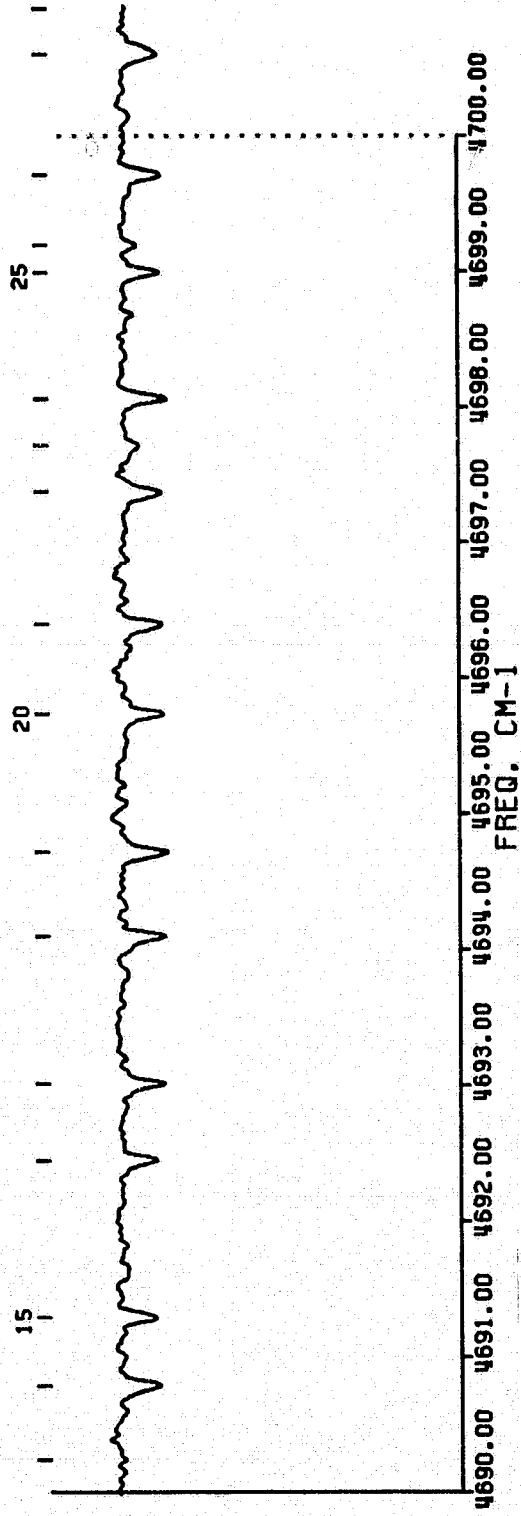
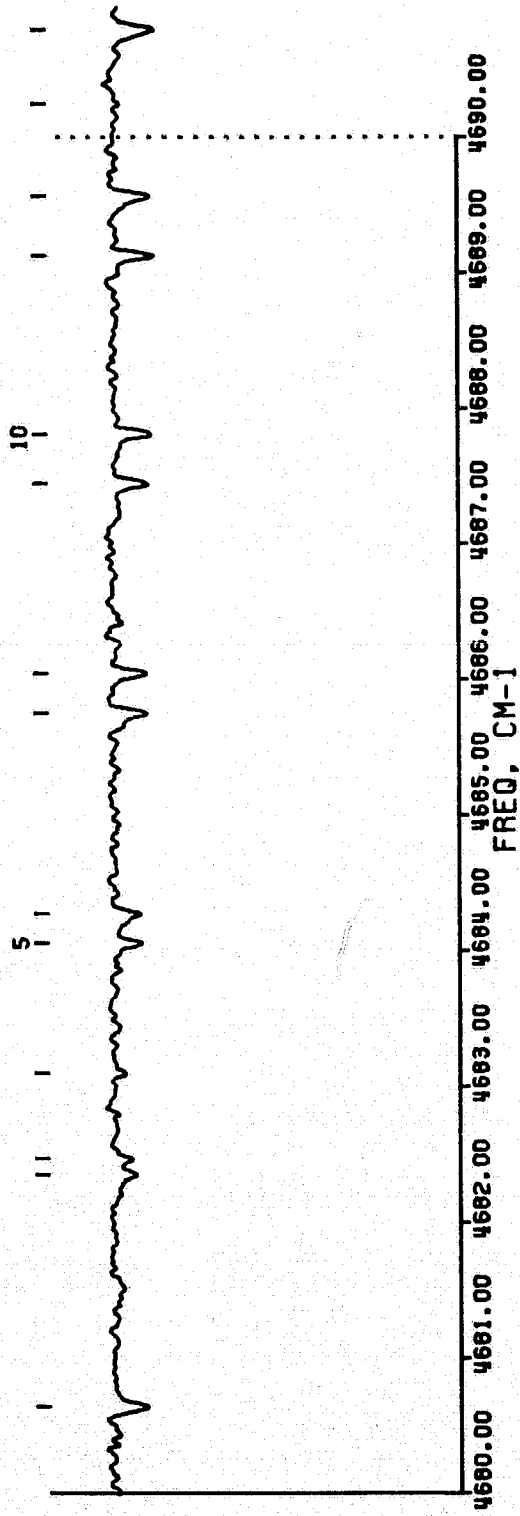
404



405

4680.636	4682.347	4682.464	4683.097	4684.058	5
4684.269	4685.750	4686.046	4687.441	4687.808	10
4689.120	4689.562	4690.241	4690.788	4691.288	15
4692.448	4693.011	4694.097	4694.722	4695.734	20
4696.401	4697.370	4697.714	4698.062	4698.991	25
4699.191	4699.710	4700.601	4700.937		30

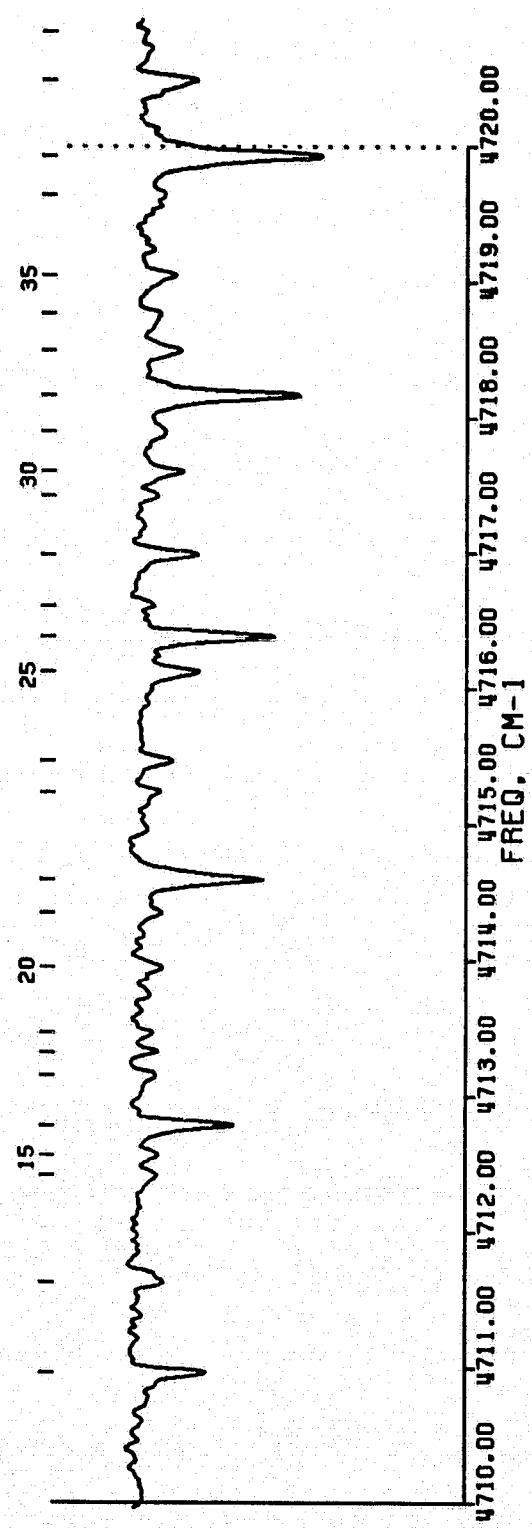
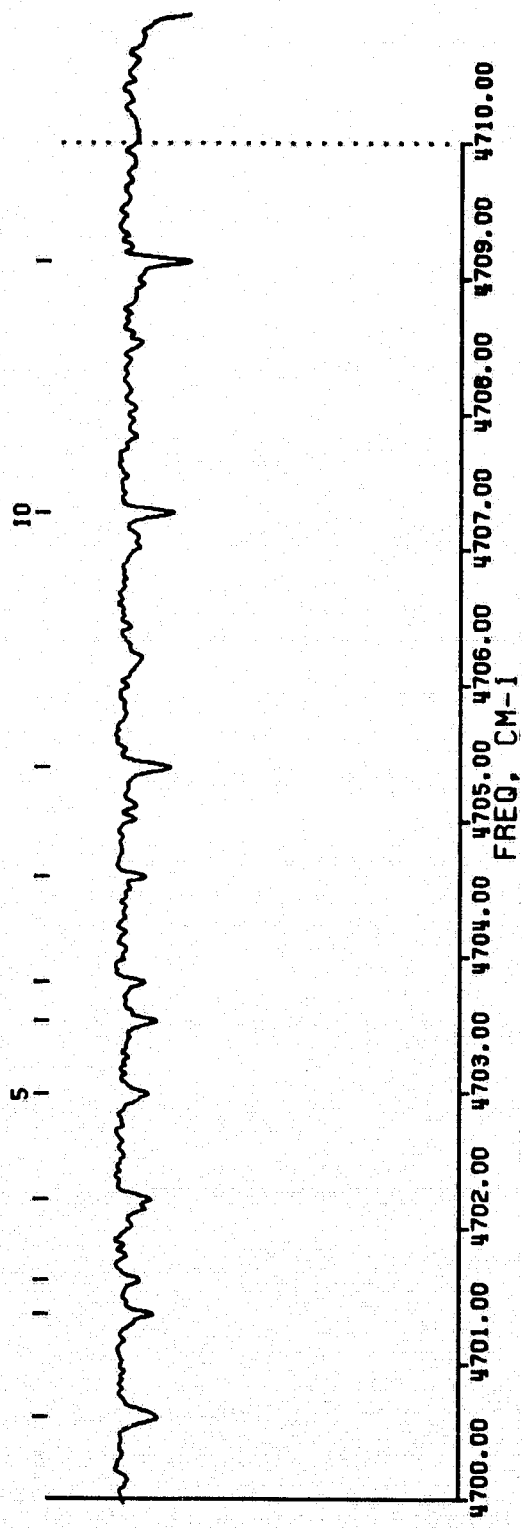
905



407

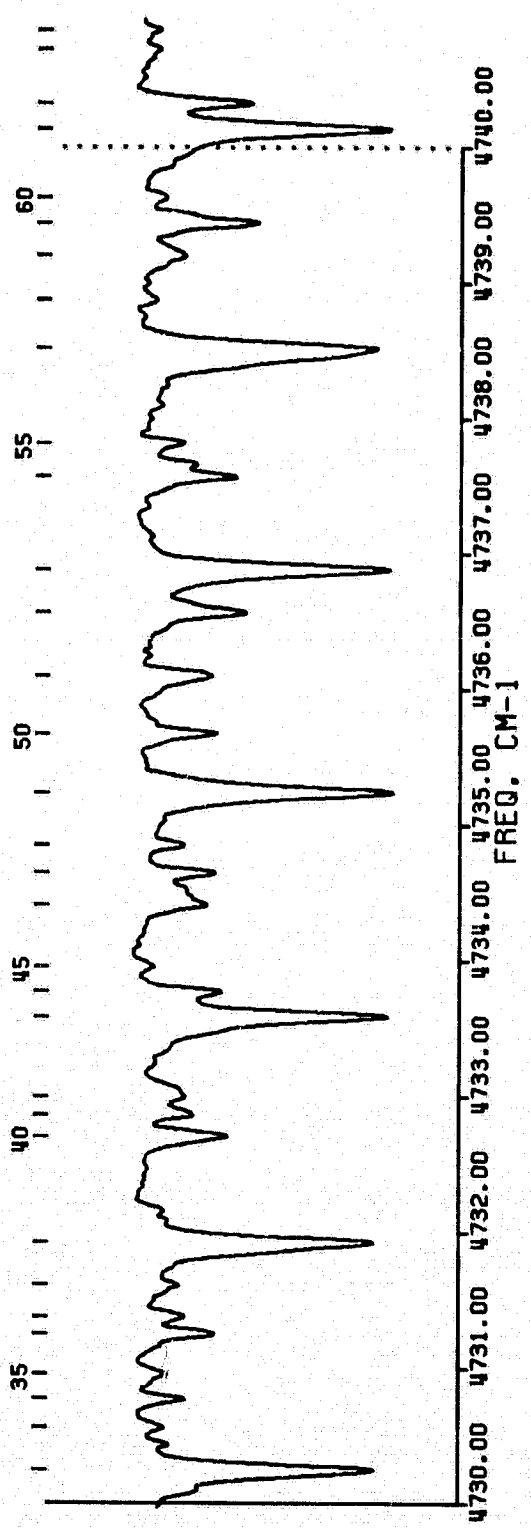
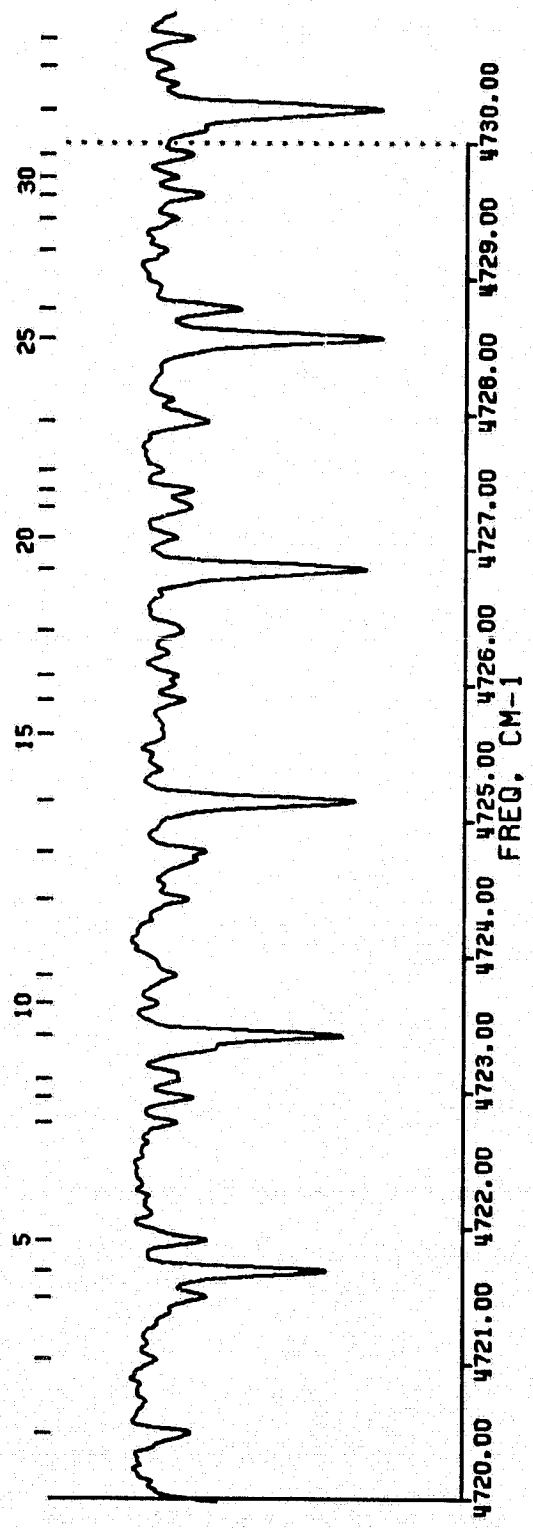


4700.605	4701.359	4701.613	4702.206	4702.984	5
4703.523	4703.808	4704.585	4705.394	4707.269	10
4709.125	4710.960	4711.628	4712.417	4712.566	15
4712.785	4713.151	4713.323	4713.464	4713.948	20
4714.347	4714.593	4715.241	4715.468	4716.125	25
4716.386	4716.613	4716.991	4717.425	4717.601	30
4717.901	4718.163	4718.491	4718.765	4719.046	35
4719.644	4719.929	4720.488	4720.847		40



607

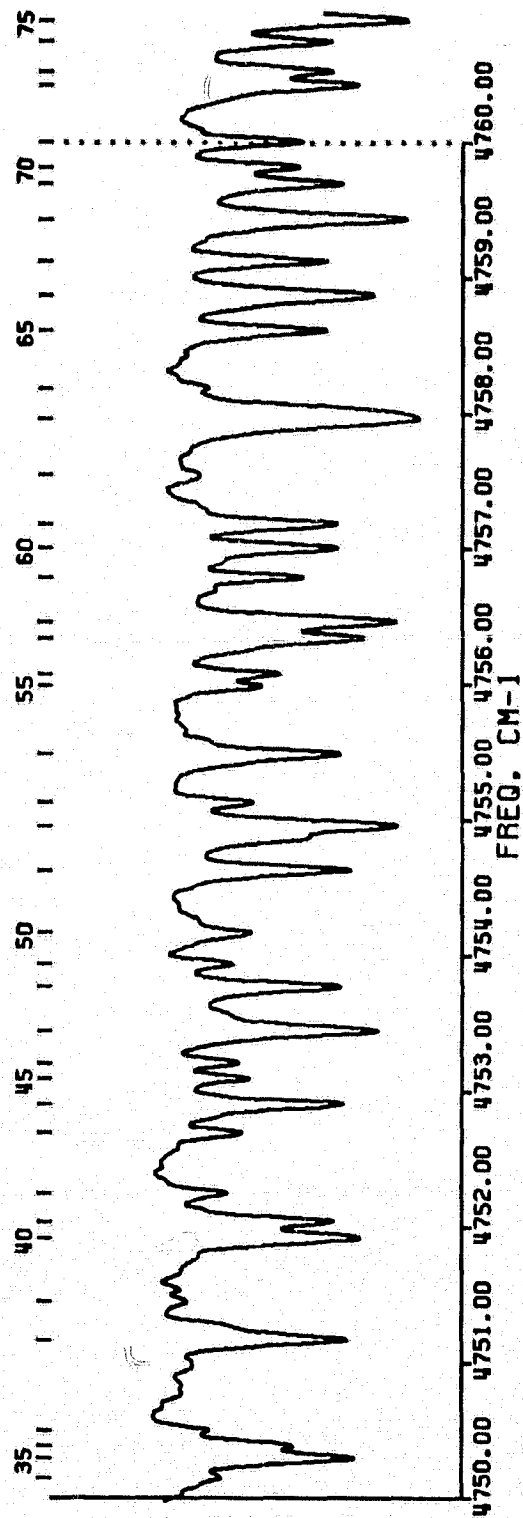
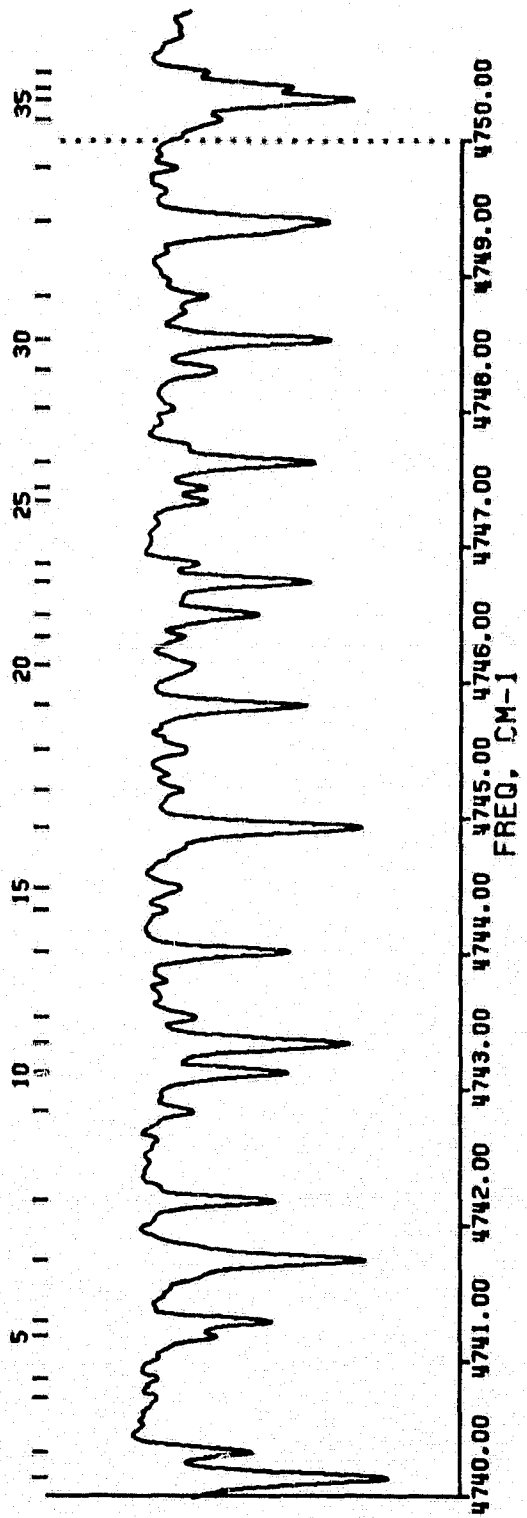
4720.488	4721.031	4721.488	4721.683	4721.910	5
4722.776	4722.960	4723.093	4723.417	4723.656	10
4723.863	4724.417	4724.773	4725.144	4725.636	15
4725.886	4726.070	4726.401	4726.859	4727.089	20
4727.308	4727.433	4727.581	4727.945	4728.558	25
4728.776	4729.206	4729.441	4729.616	4729.745	30
4729.917	4730.245	4730.562	4730.769	4730.953	35
4731.250	4731.375	4731.613	4731.925	4732.706	40
4732.866	4733.000	4733.589	4733.773	4733.960	45
4734.413	4734.648	4734.855	4735.241	4735.675	50
4736.101	4736.566	4736.882	4737.570	4737.816	55
4738.511	4738.875	4739.198	4739.441	4739.628	60
4740.132	4740.323	4740.722	4740.863		65



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4740.132	4740.323	4740.722	4740.863	4741.175	5
4741.288	4741.741	4742.179	4742.835	4743.125	10
4743.339	4743.531	4744.015	4744.320	4744.484	15
4744.933	4745.206	4745.507	4745.831	4746.128	20
4746.339	4746.500	4746.741	4746.878	4747.335	25
4747.433	4747.625	4748.026	4748.304	4748.526	30
4748.847	4749.401	4749.800	4750.151	4750.296	35
4750.386	4750.500	4751.167	4751.449	4751.921	40
4752.042	4752.250	4752.695	4752.910	4753.097	45
4753.210	4753.448	4753.773	4753.941	4754.171	50
4754.632	4754.960	4755.132	4755.488	4755.991	55
4756.078	4756.343	4756.464	4756.792	4757.007	60
4757.187	4757.546	4757.964	4758.187	4758.613	65
4758.875	4759.125	4759.433	4759.695	4759.820	70
4760.007	4760.425	4760.523	4760.745	4760.901	75

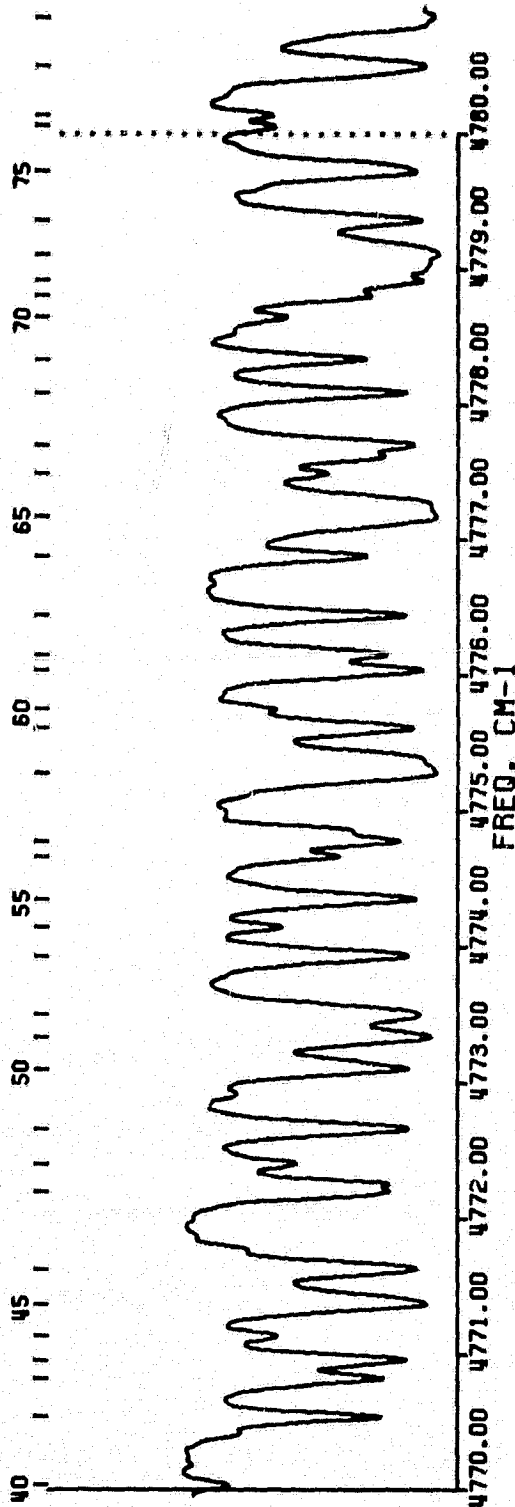
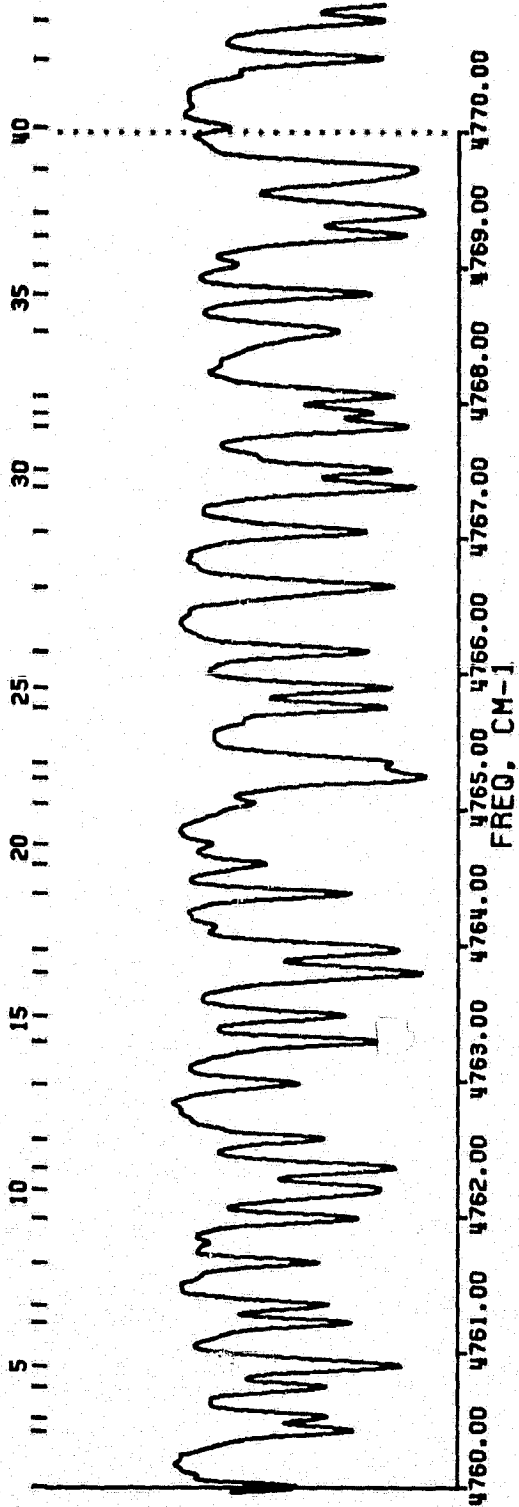
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413

4760.007	4760.425	4760.523	4760.745	4760.901	5
4761.218	4761.347	4761.663	4761.988	4762.203	10
4762.359	4762.573	4762.980	4763.292	4763.484	15
4763.800	4763.968	4764.382	4764.605	4764.750	20
4765.050	4765.241	4765.351	4765.753	4765.901	25
4766.171	4766.648	4767.050	4767.378	4767.503	30
4767.831	4767.929	4768.054	4768.526	4768.804	35
4769.019	4769.238	4769.401	4769.722	4770.035	40
4770.538	4770.823	4770.956	4771.136	4771.370	45
4771.628	4772.198	4772.406	4772.660	4773.105	50
4773.339	4773.507	4773.937	4774.151	4774.355	55
4774.671	4774.785	4775.288	4775.616	4775.753	60
4776.042	4776.156	4776.448	4776.886	4777.175	65
4777.495	4777.703	4778.089	4778.335	4778.648	70
4778.808	4778.917	4779.109	4779.363	4779.722	75
4780.058	4780.136	4780.500	4780.863		80

414

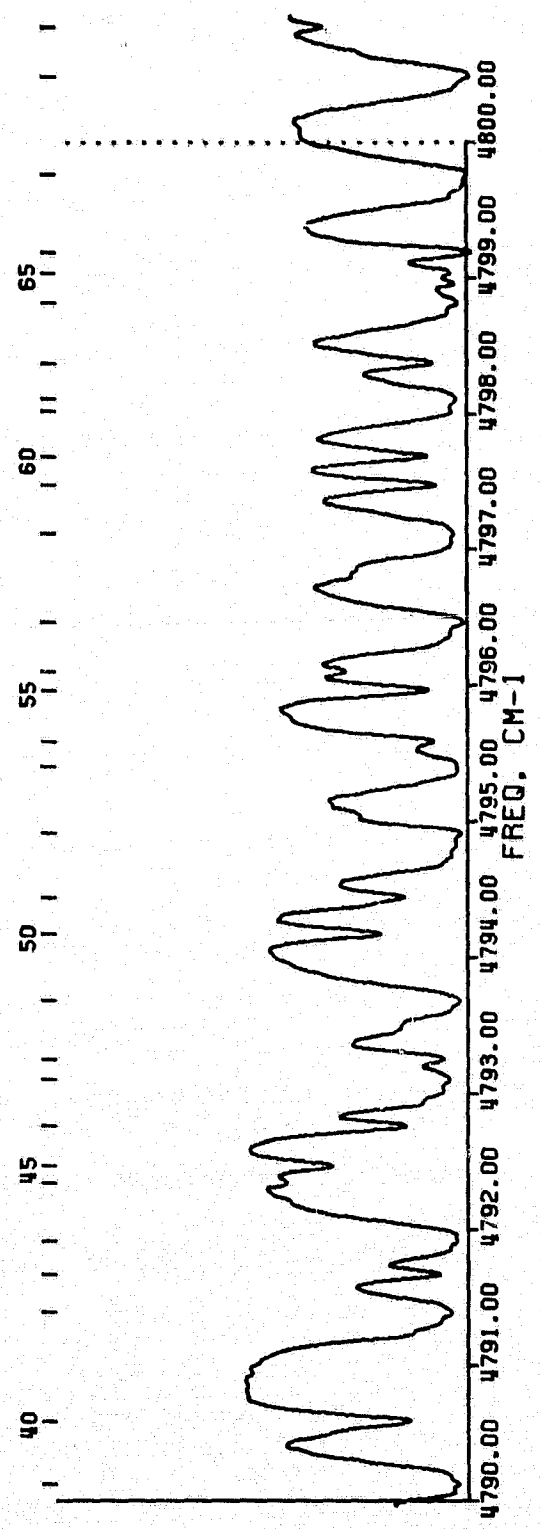
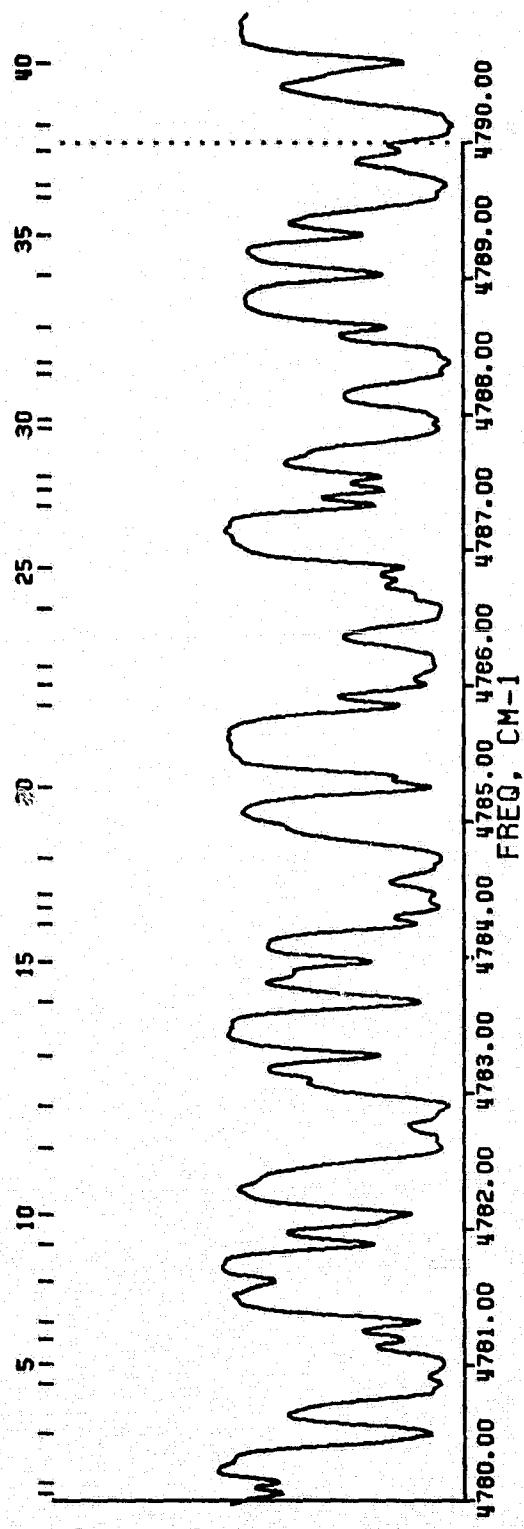


415



4780.058	4780.136	4780.500	4780.863	4781.011	5
4781.191	4781.320	4781.620	4781.890	4782.113	10
4782.597	4782.910	4783.276	4783.675	4783.972	15
4784.250	4784.370	4784.468	4784.734	4785.253	20
4785.851	4786.007	4786.144	4786.566	4786.870	25
4787.328	4787.445	4787.538	4787.898	4787.960	30
4788.300	4788.382	4788.640	4789.026	4789.320	35
4789.601	4789.687	4789.941	4790.128	4790.589	40
4791.390	4791.667	4791.913	4792.339	4792.464	45
4792.761	4793.105	4793.253	4793.683	4794.171	50
4794.441	4794.917	4795.410	4795.585	4795.968	55
4796.105	4796.468	4797.120	4797.476	4797.687	60
4798.023	4798.116	4798.375	4798.820	4799.038	65
4799.191	4799.769	4800.491	4800.851		70

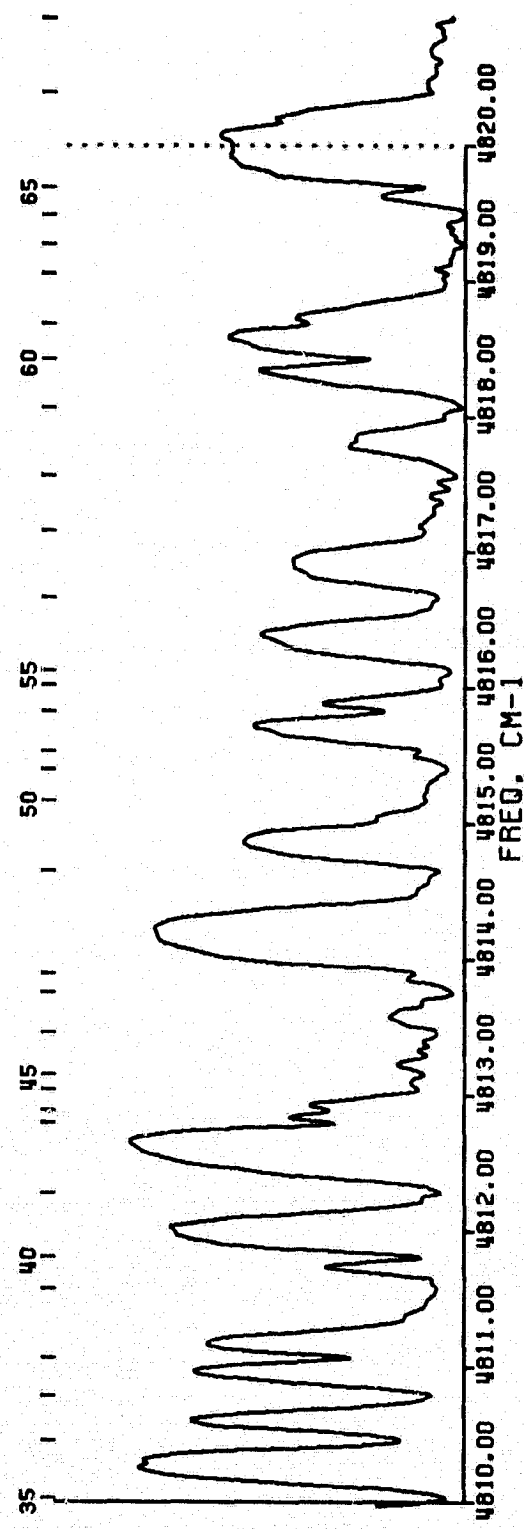
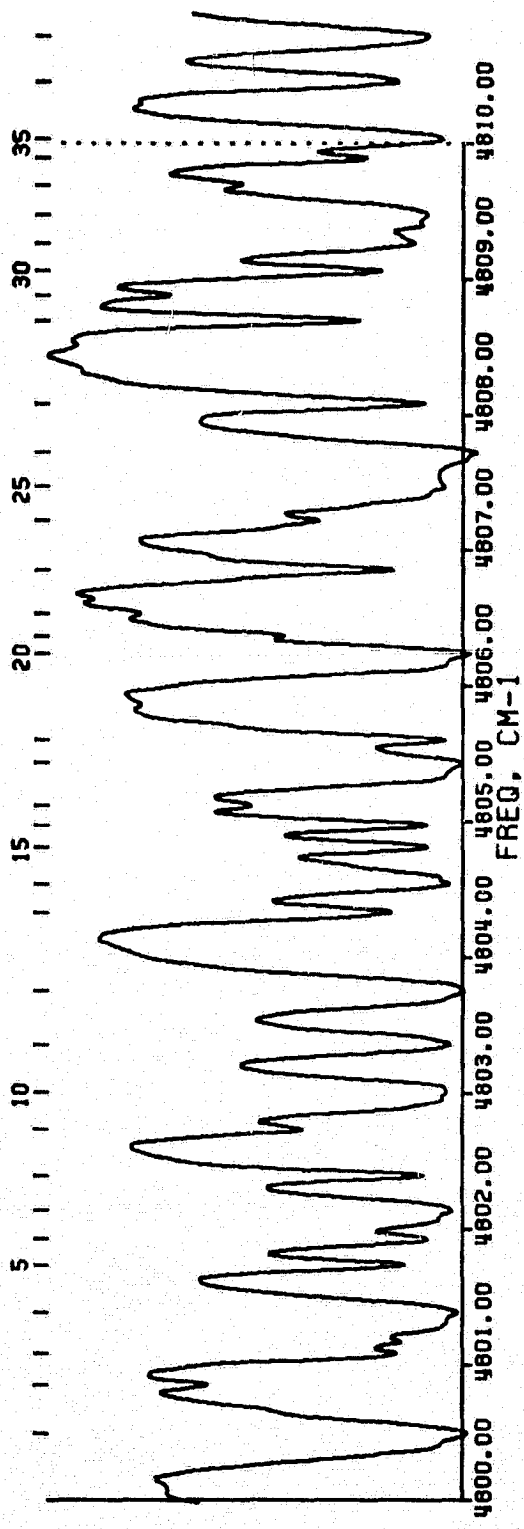
416



477

4800.491	4800.851	4801.078	4801.382	4801.734	5
4801.925	4802.136	4802.390	4802.730	4803.007	10
4803.359	4803.757	4804.331	4804.538	4804.812	15
4804.972	4805.116	4805.433	4805.601	4806.238	20
4806.366	4806.531	4806.855	4807.218	4807.468	25
4807.722	4808.081	4808.691	4808.878	4809.058	30
4809.265	4809.472	4809.691	4809.890	4810.031	35
4810.456	4810.788	4811.066	4811.578	4811.808	40
4812.281	4812.792	4812.886	4813.042	4813.156	45
4813.460	4813.757	4813.898	4814.651	4815.171	50
4815.401	4815.535	4815.828	4816.023	4816.125	55
4816.667	4817.156	4817.562	4818.070	4818.421	60
4818.683	4819.050	4819.269	4819.488	4819.687	65
4820.390	4820.933				70

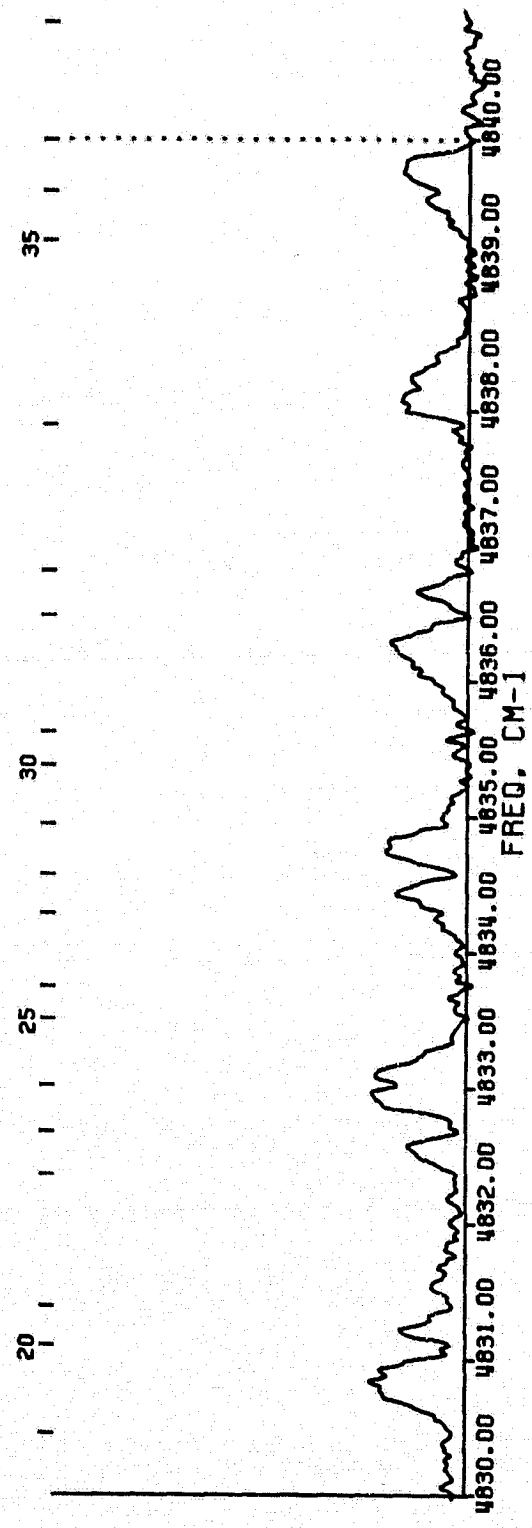
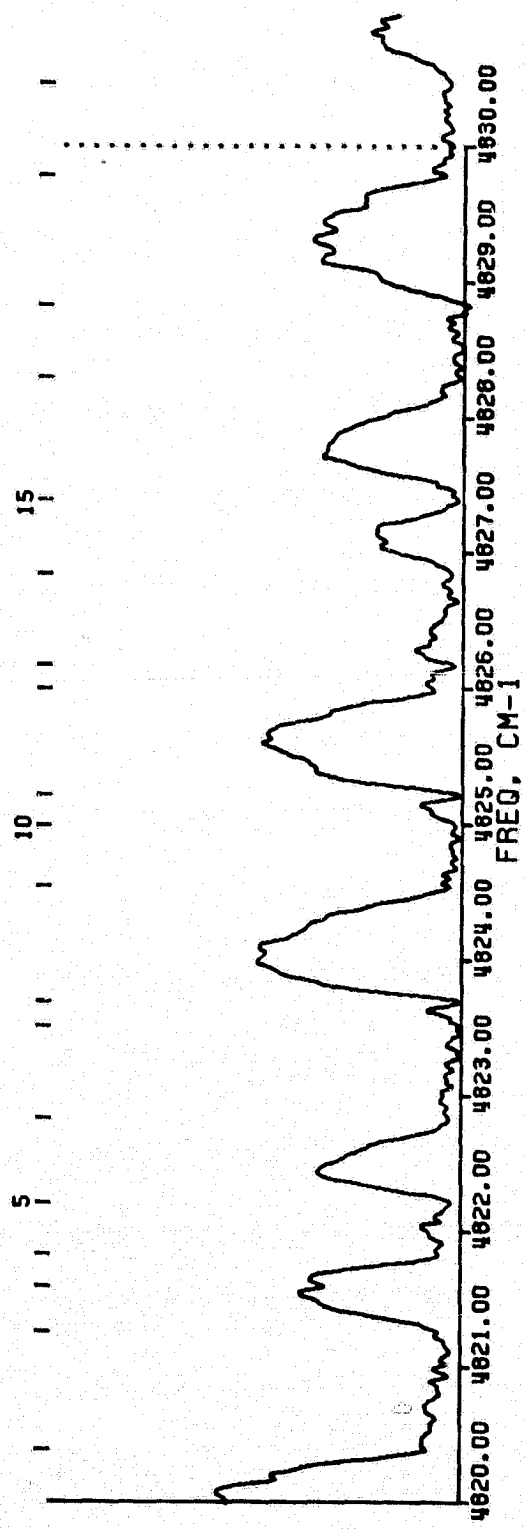
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4820.390	4821.253	4821.593	4821.828	4822.210	5
4822.831	4823.511	4823.691	4824.538	4824.983	10
4825.210	4825.991	4826.171	4826.843	4827.386	15
4828.288	4828.820	4829.785	4830.460	4831.109	20
4831.394	4832.370	4832.683	4833.026	4833.519	25
4833.757	4834.296	4834.581	4834.948	4835.386	30
4835.632	4836.484	4836.816	4837.890	4839.250	35
4839.616	4839.991	4840.863			40

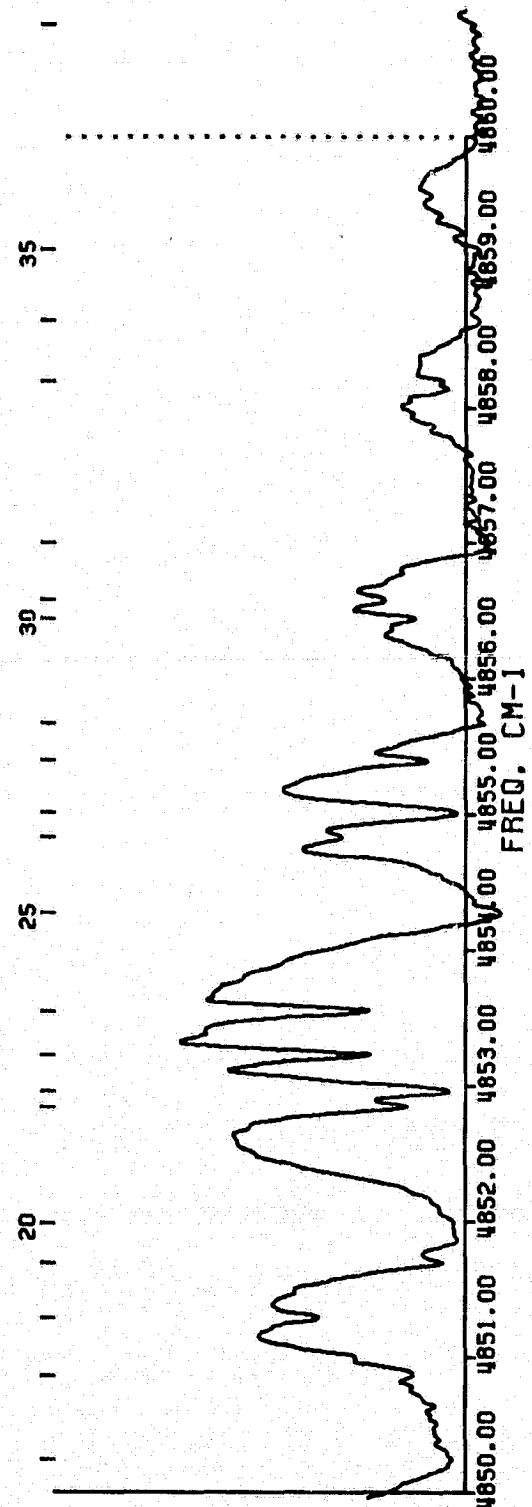
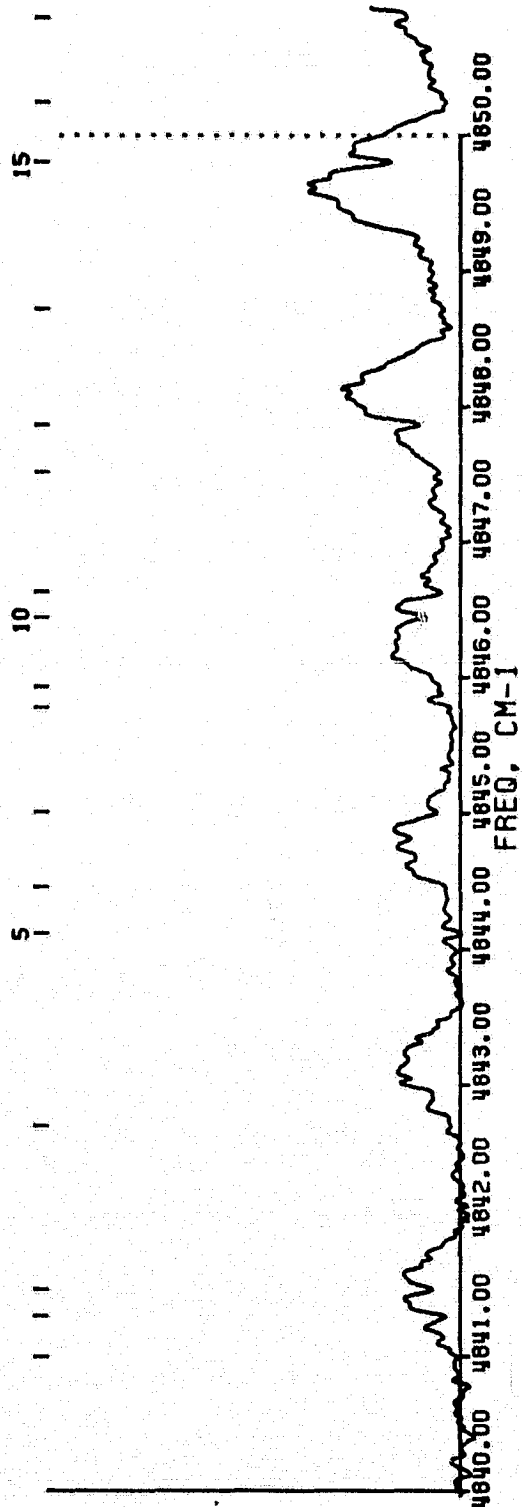
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401

4840.988	4841.288	4841.488	4842.691	4844.109	5
4844.453	4845.007	4845.781	4845.933	4846.445	10
4846.628	4847.511	4847.866	4848.714	4849.800	15
4850.245	4850.866	4851.288	4851.695	4851.988	20
4852.843	4852.960	4853.226	4853.554	4854.273	25
4854.831	4855.011	4855.398	4855.675	4856.445	30
4856.581	4857.003	4858.195	4858.640	4859.163	35
4860.823					40

422

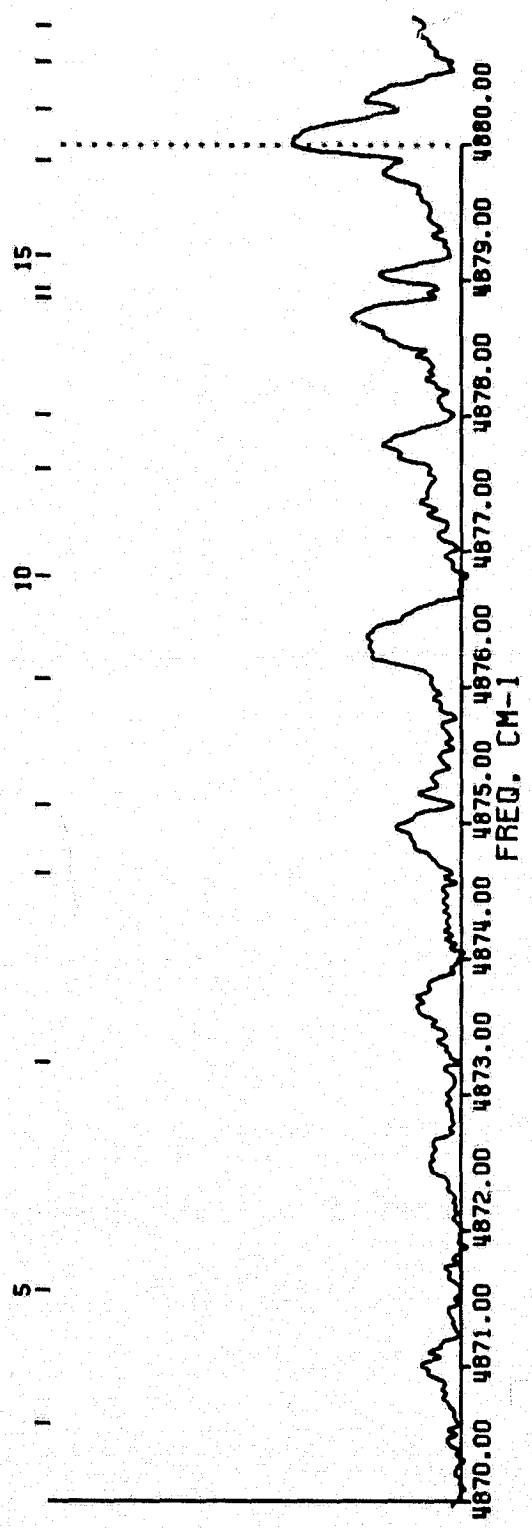
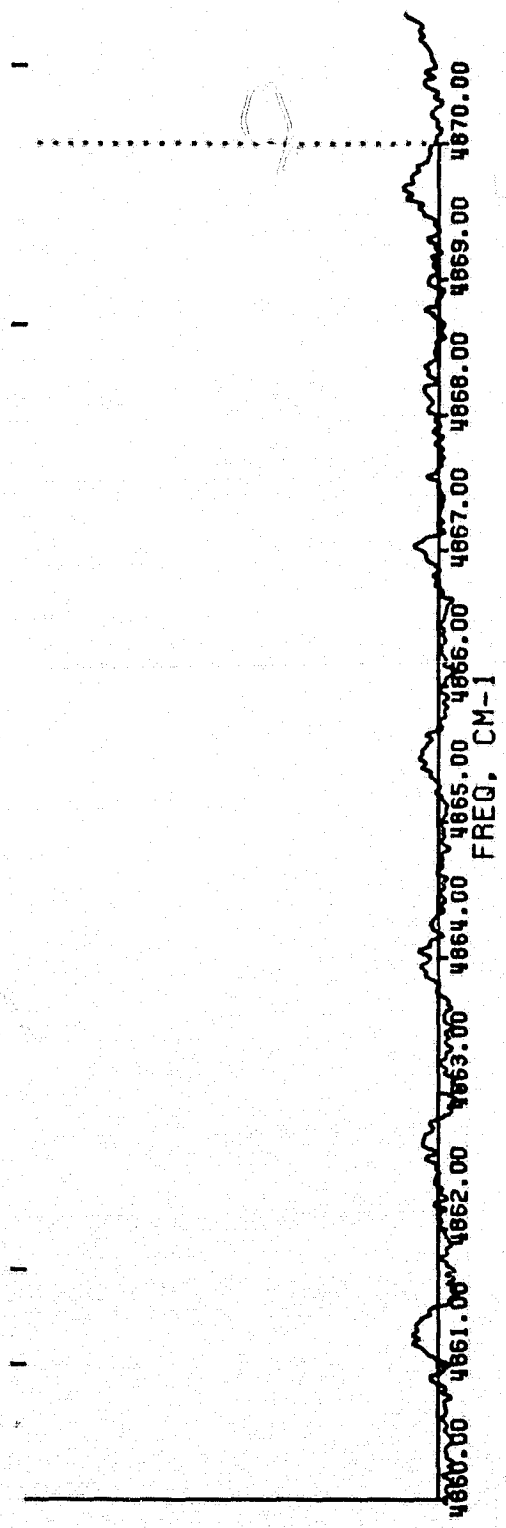


423



4861.000	4861.698	4868.663	4870.573	4871.558	5
4873.238	4874.632	4875.132	4876.066	4876.823	10
4877.609	4878.011	4878.875	4878.941	4879.183	15
4879.886	4880.261	4880.613	4880.878		20

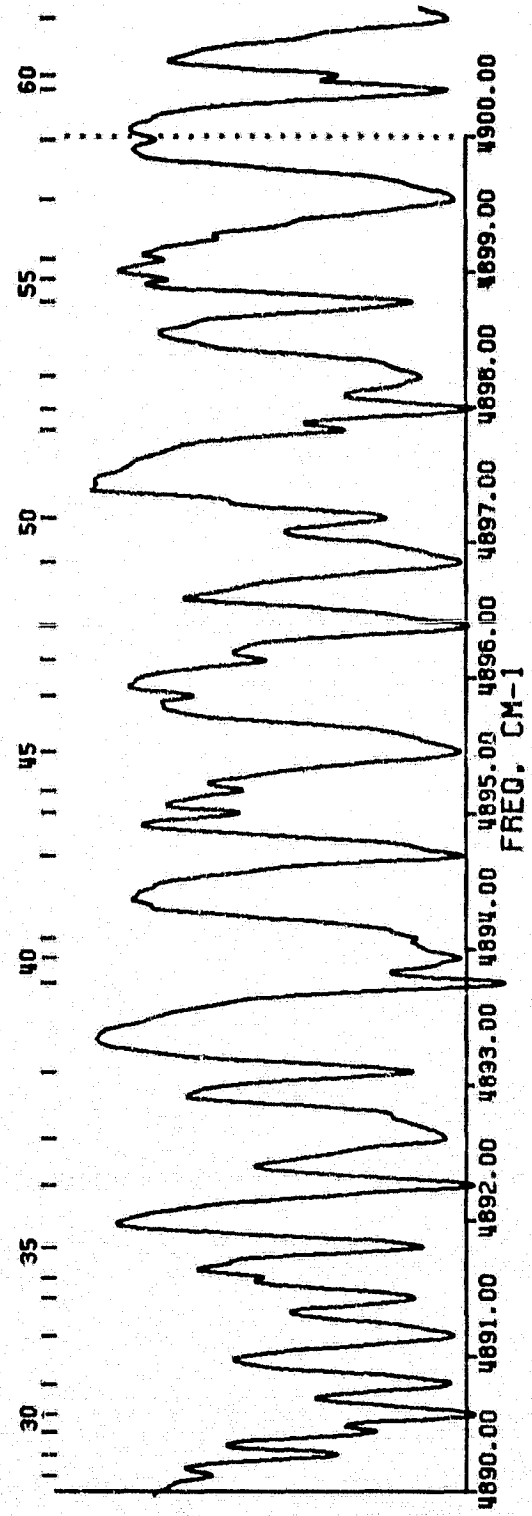
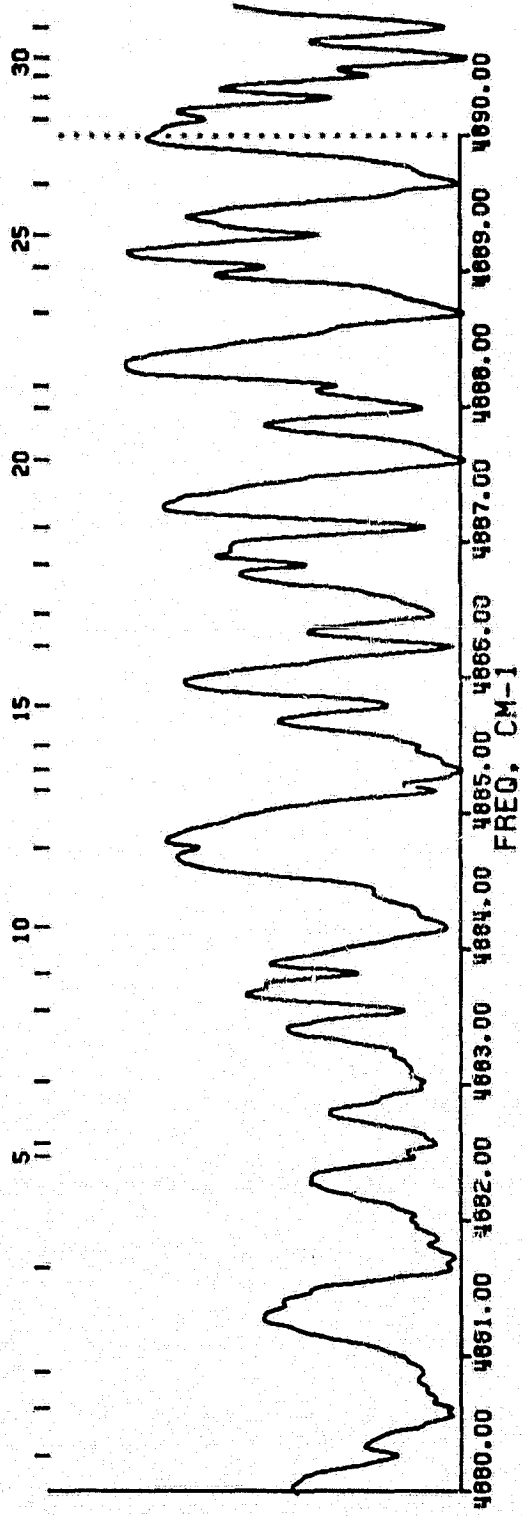
424



✓ 76

4880.261	4880.613	4880.878	4881.644	4882.464	5
4882.566	4883.023	4883.542	4883.820	4884.160	10
4884.741	4885.167	4885.320	4885.495	4885.792	15
4886.230	4886.468	4886.831	4887.109	4887.605	20
4887.988	4888.151	4888.691	4889.026	4889.265	25
4889.644	4890.120	4890.276	4890.441	4890.570	30
4890.796	4891.151	4891.429	4891.578	4891.804	35
4892.261	4892.609	4893.097	4893.753	4893.937	40
4894.081	4894.691	4895.007	4895.171	4895.456	45
4895.866	4896.132	4896.386	4896.855	4897.179	50
4897.831	4897.984	4898.226	4898.773	4898.941	55
4899.085	4899.531	4899.972	4900.339	4900.445	60
4900.866					65

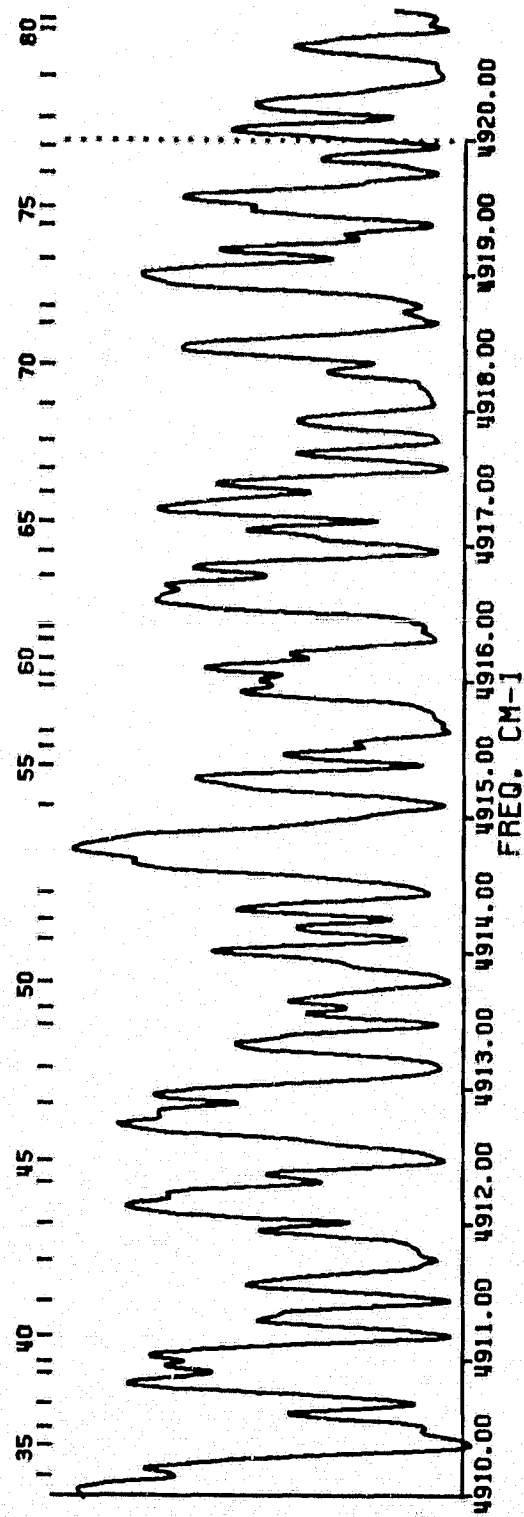
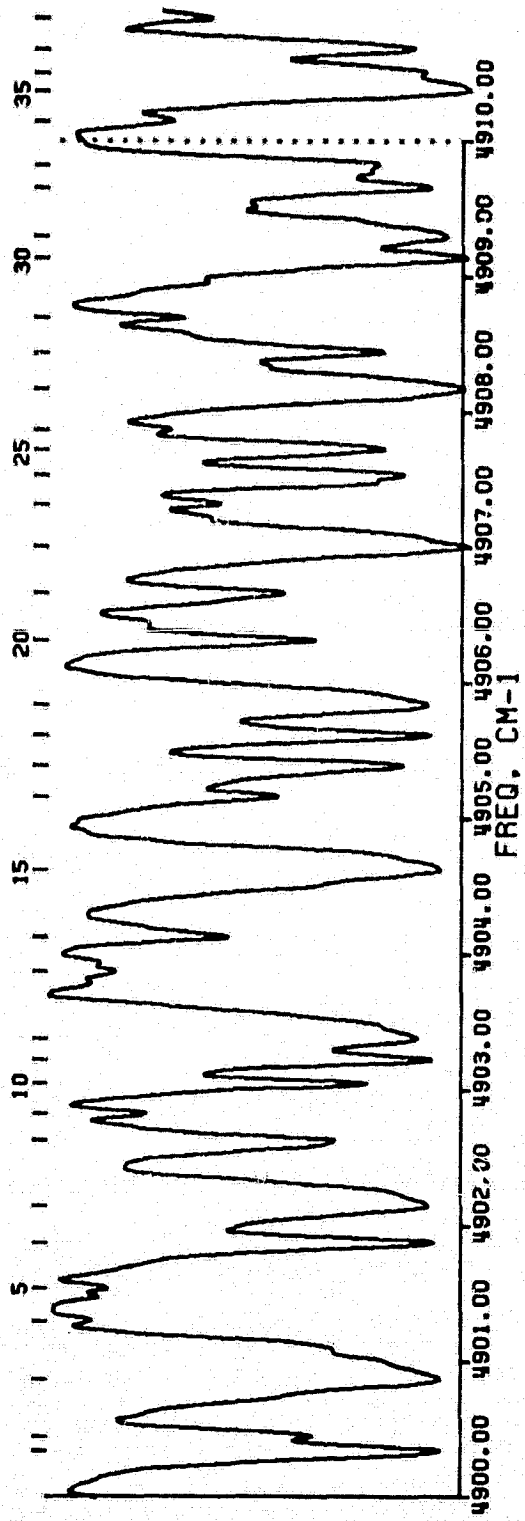
426



427

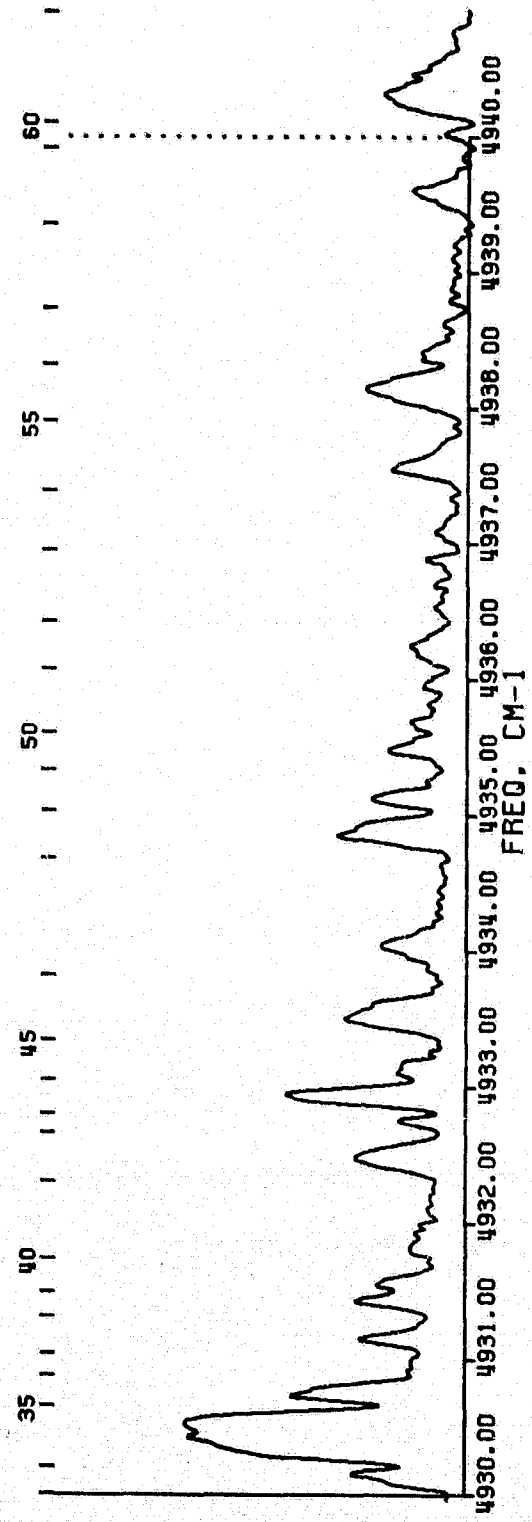
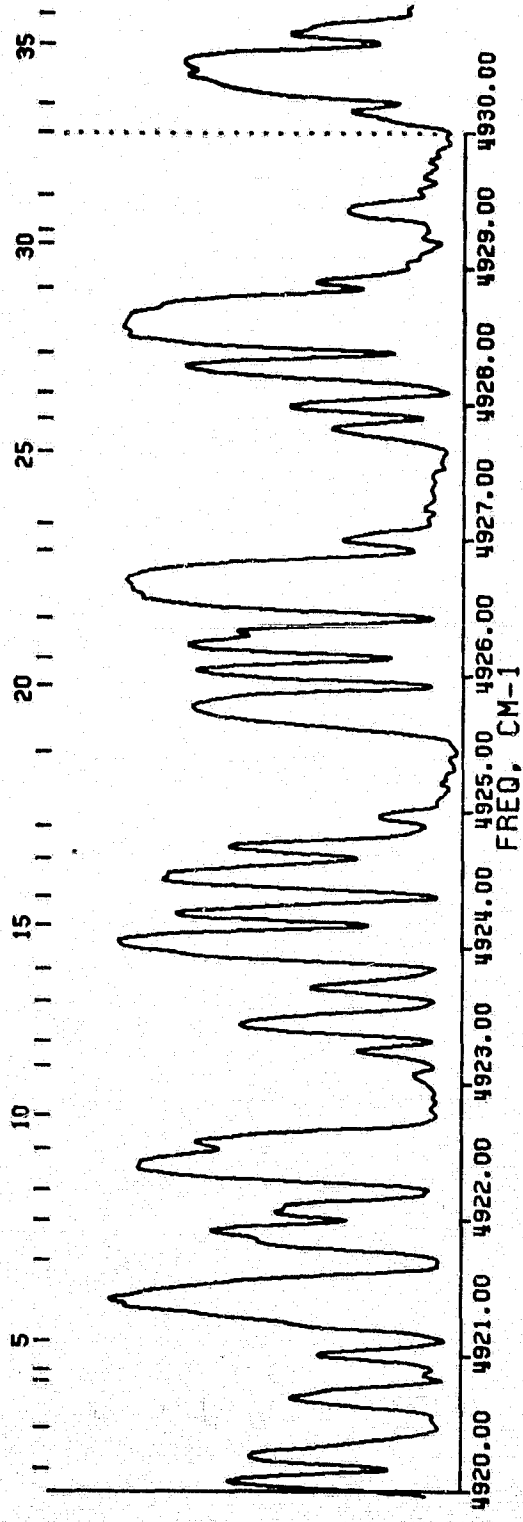
4900.339	4900.445	4900.866	4901.292	4901.535	5
4901.875	4902.148	4902.625	4902.823	4903.046	10
4903.222	4903.378	4903.870	4904.128	4904.625	15
4905.163	4905.394	4905.616	4905.839	4906.316	20
4906.663	4907.011	4907.320	4907.535	4907.726	25
4907.870	4908.171	4908.441	4908.695	4909.140	30
4909.296	4909.656	4909.823	4910.148	4910.370	35
4910.503	4910.679	4910.906	4910.991	4911.175	40
4911.441	4911.741	4912.011	4912.312	4912.472	45
4912.890	4913.160	4913.476	4913.601	4913.792	50
4914.105	4914.250	4914.445	4915.093	4915.386	55
4915.523	4915.636	4915.976	4916.050	4916.175	60
4916.320	4916.410	4916.785	4916.968	4917.187	65
4917.401	4917.578	4917.785	4918.054	4918.347	70
4918.648	4918.773	4919.125	4919.375	4919.511	75
4919.757	4919.956	4920.167	4920.472	4920.816	80
4920.898					85

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4529

4920.167	4920.472	4920.816	4920.898	4921.109	5
4921.703	4921.995	4922.218	4922.523	4922.763	10
4923.128	4923.312	4923.609	4923.847	4924.167	15
4924.375	4924.660	4924.898	4925.441	4925.929	20
4926.136	4926.425	4926.925	4927.125	4927.651	25
4927.901	4928.089	4928.378	4928.855	4929.187	30
4929.285	4929.546	4930.007	4930.214	4930.660	35
4930.882	4931.046	4931.316	4931.503	4931.745	40
4932.316	4932.671	4932.812	4933.058	4933.347	45
4933.828	4934.683	4935.035	4935.339	4935.609	50
4936.078	4936.429	4936.953	4937.386	4937.906	55
4938.316	4938.730	4939.355	4939.917	4940.101	60
4940.913					65



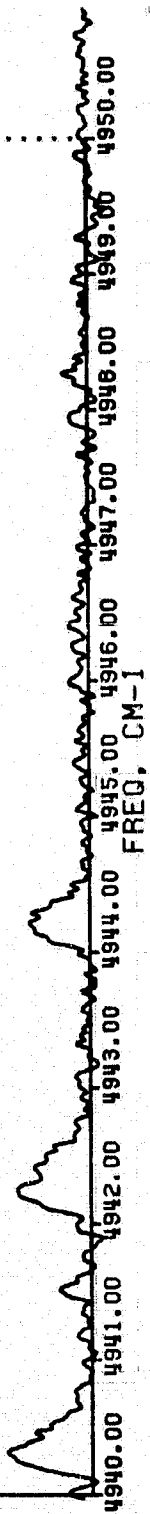
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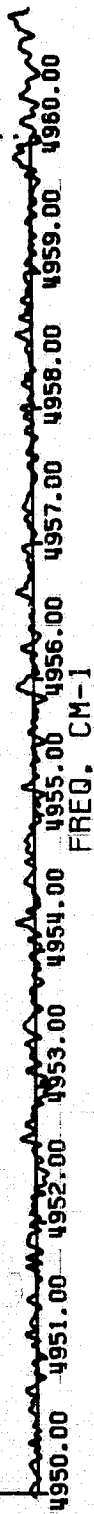
4940.101	4941.421	4941.894	4943.875	4945.007	5
4945.886	4947.828	4948.140	4954.116	4955.151	10
4955.859	4959.745	4960.745			15

432

5 | | | | |



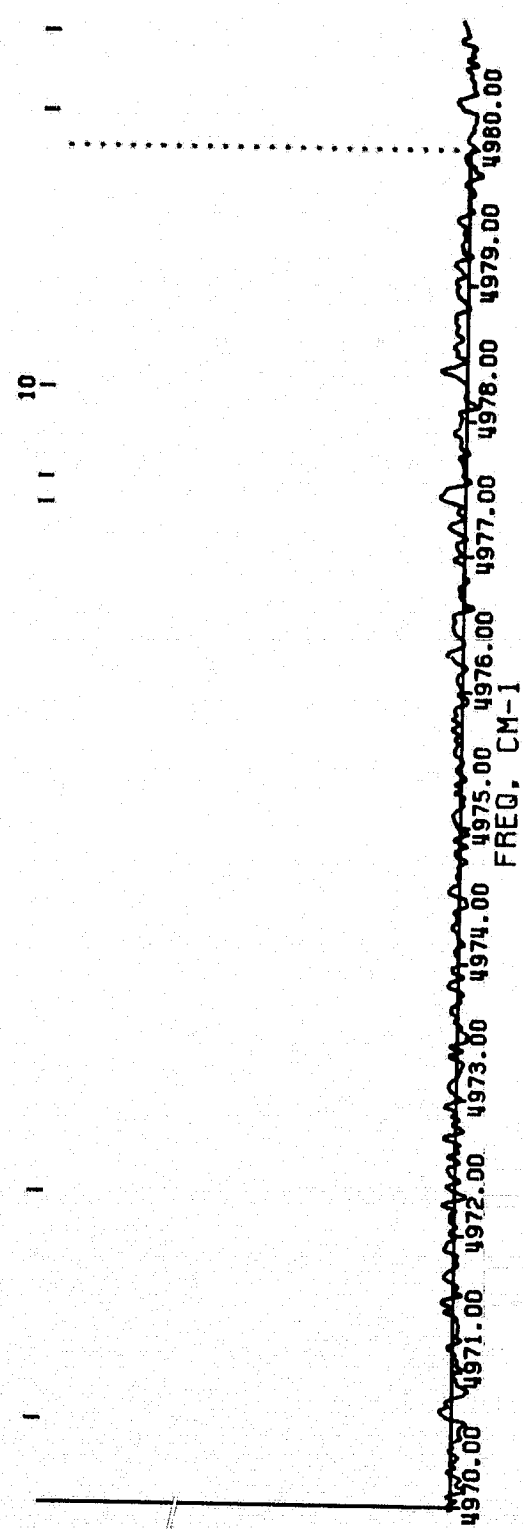
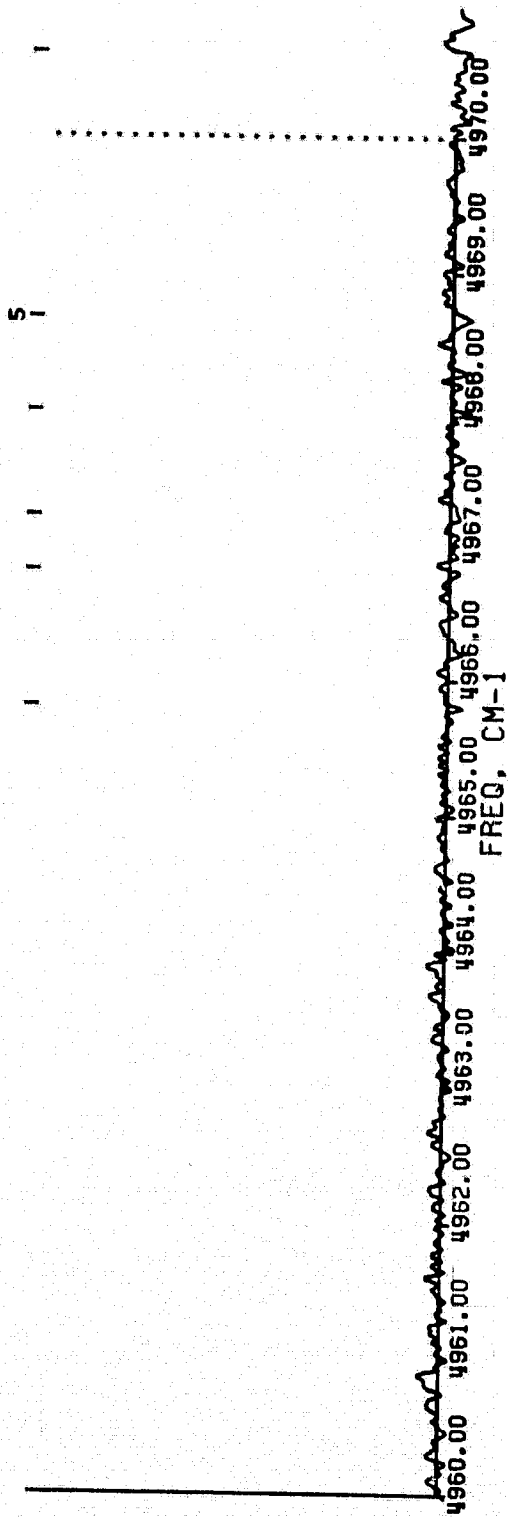
10 | |



432

4965.800	4966.796	4967.198	4967.972	4968.660	5
4970.616	4972.288	4977.366	4977.554	4978.222	10
4980.257	4980.843				15

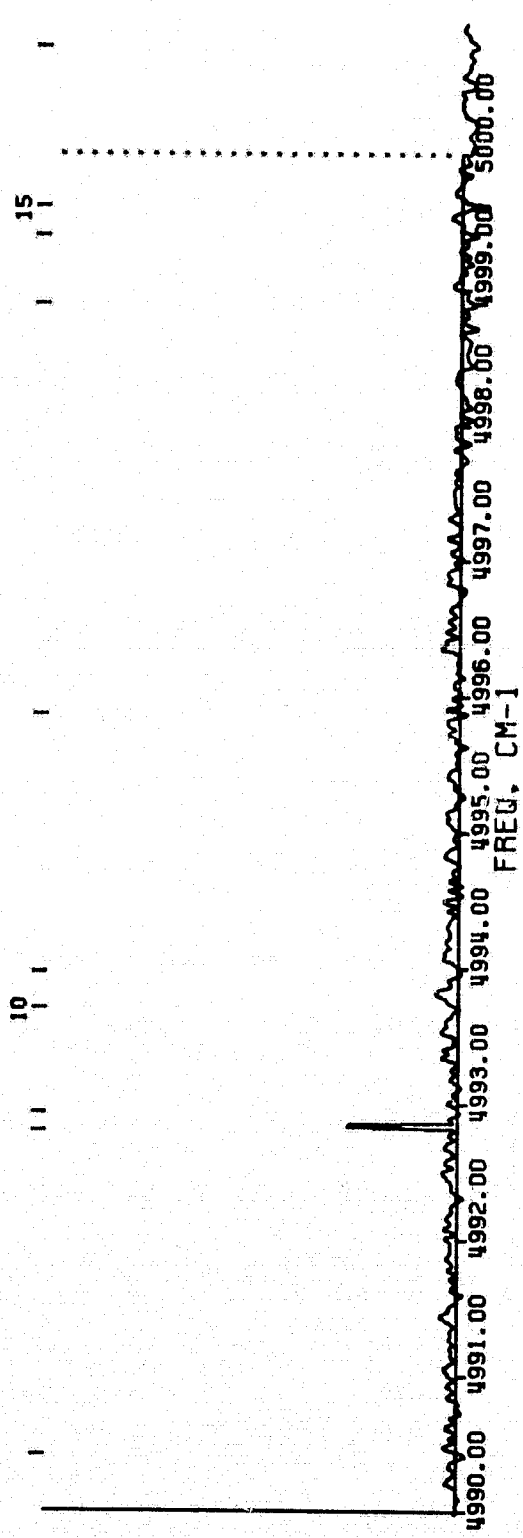
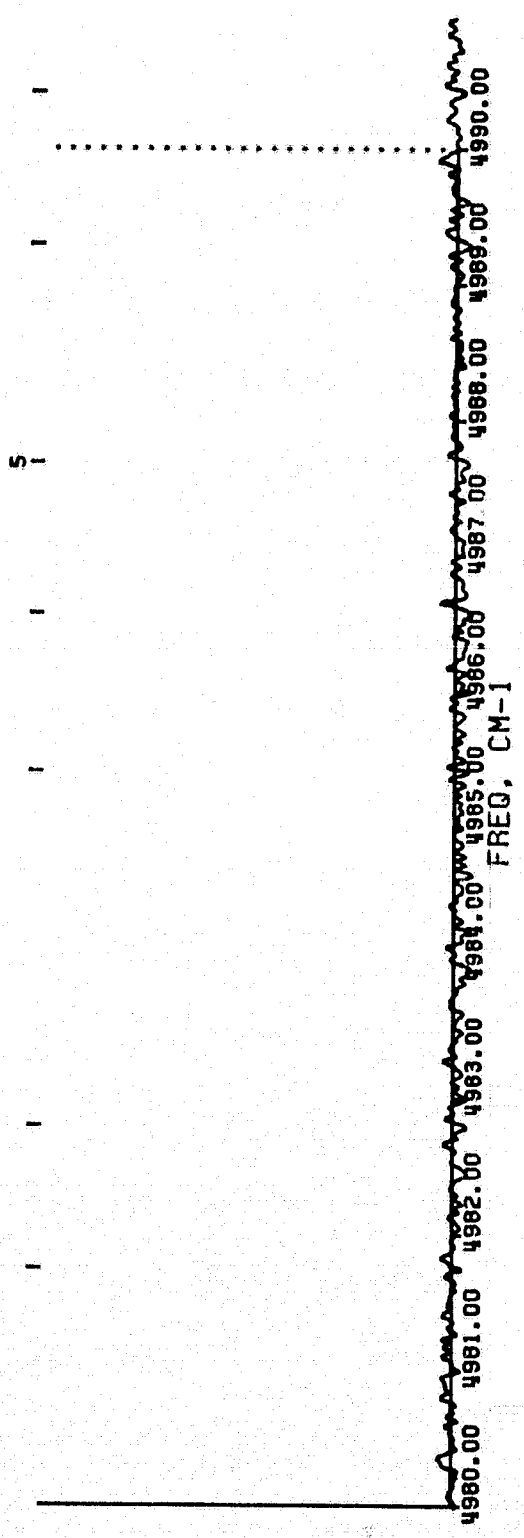
434



435

4981.745	4982.792	4985.410	4986.566	4987.679	5
4989.288	4990.413	4992.804	4992.933	4993.706	10
4993.968	4995.870	4998.890	4999.398	4999.613	15
5000.792					20

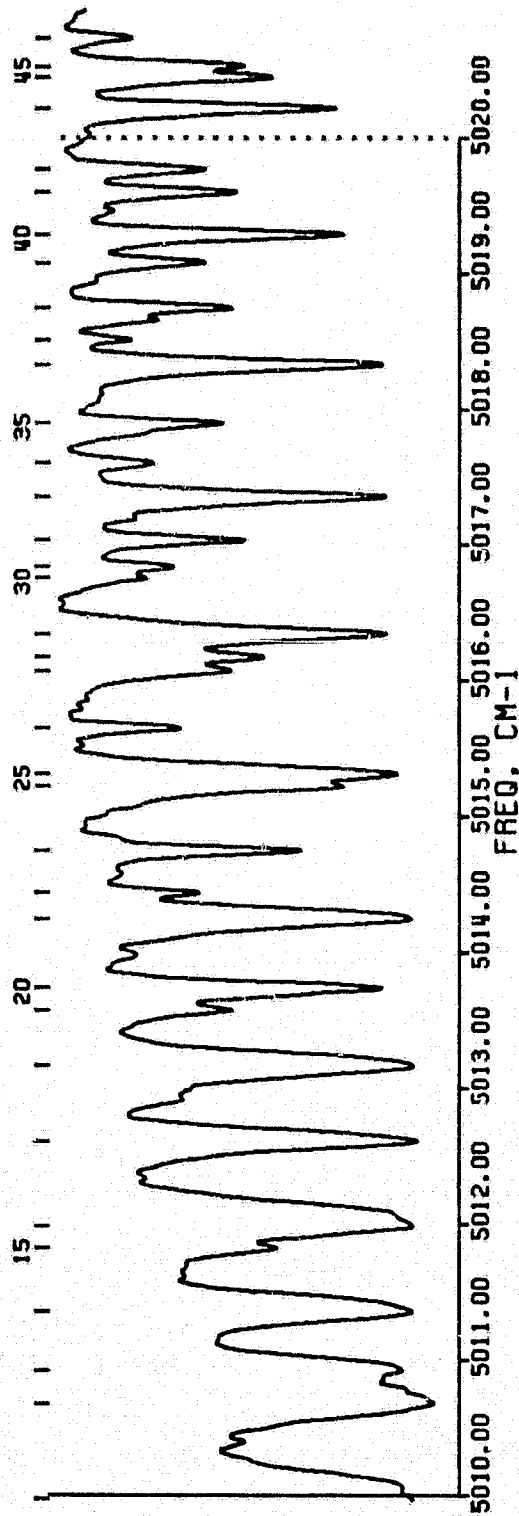
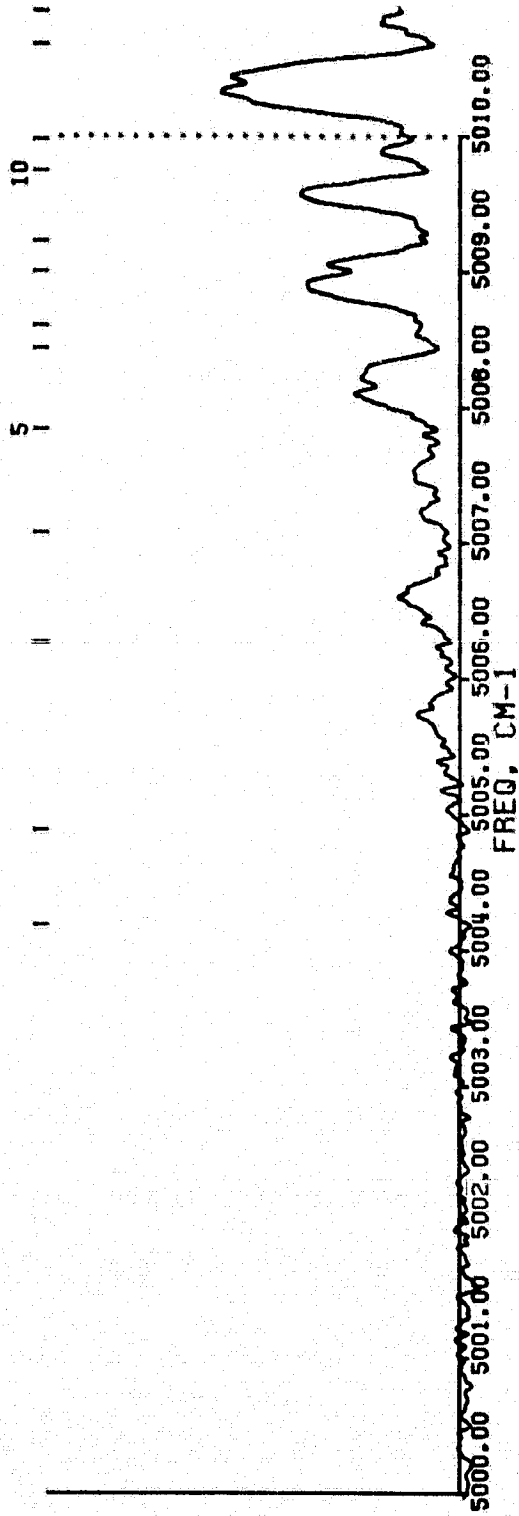
436



437

5004.167	5004.890	5006.276	5007.081	5007.839	5
5008.441	5008.609	5009.003	5009.226	5009.745	10
5009.976	5010.675	5010.921	5011.351	5011.820	15
5011.984	5012.605	5013.163	5013.573	5013.738	20
5014.245	5014.437	5014.750	5015.222	5015.312	25
5015.651	5016.073	5016.175	5016.343	5016.757	30
5016.839	5017.035	5017.355	5017.601	5017.898	35
5018.328	5018.507	5018.745	5019.078	5019.285	40
5019.601	5019.765	5020.218	5020.445	5020.526	45
5020.734					50

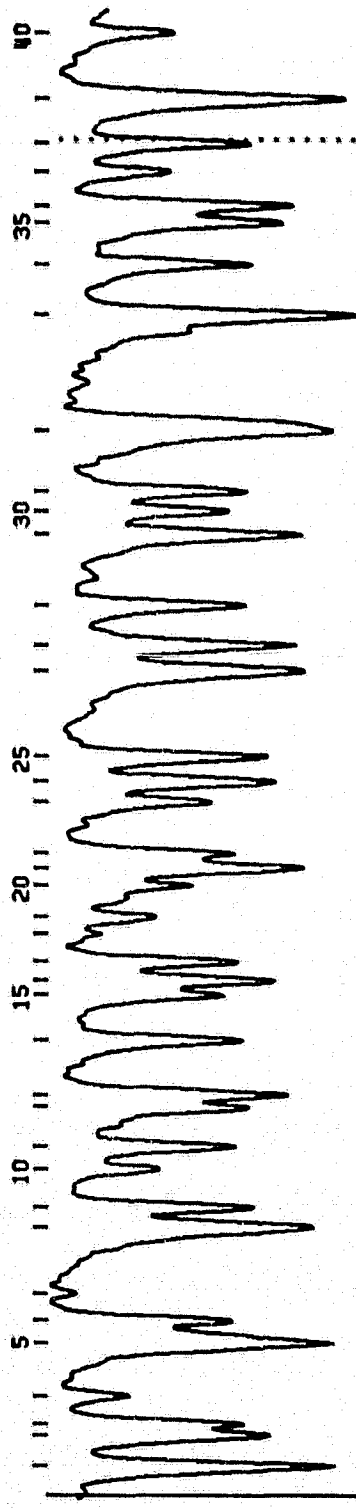
438



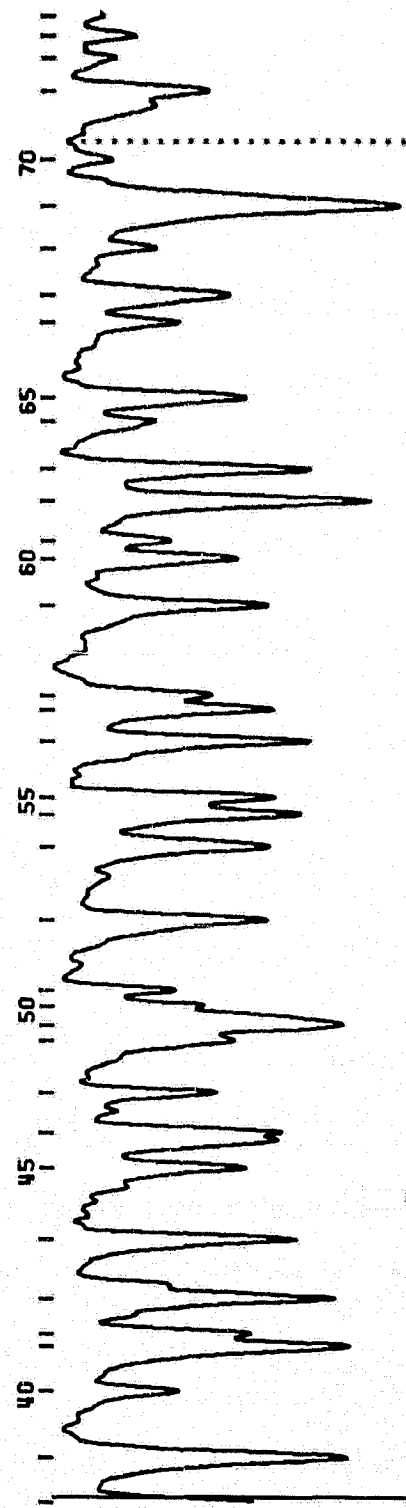
439



5020.218	5020.445	5020.526	5020.734	5021.125	5
5021.288	5021.488	5021.980	5022.125	5022.406	10
5022.573	5022.863	5022.953	5023.355	5023.691	15
5023.796	5023.937	5024.140	5024.265	5024.495	20
5024.625	5024.734	5025.113	5025.265	5025.448	25
5026.081	5026.269	5026.562	5027.085	5027.257	30
5027.401	5027.851	5028.703	5029.078	5029.382	35
5029.511	5029.761	5029.968	5030.296	5030.785	40
5031.116	5031.206	5031.468	5031.906	5032.429	45
5032.691	5032.984	5033.370	5033.484	5033.625	50
5033.741	5034.257	5034.800	5035.038	5035.163	55
5035.578	5035.808	5035.913	5036.578	5036.921	60
5037.054	5037.343	5037.581	5037.933	5038.109	65
5038.660	5038.863	5039.210	5039.523	5039.863	70
5040.370	5040.616	5040.776	5040.925		75



5020.00 5021.00 5022.00 5023.00 5024.00 5025.00 5026.00 5027.00 5028.00 5029.00 5030.00  
FREQ, CM-1

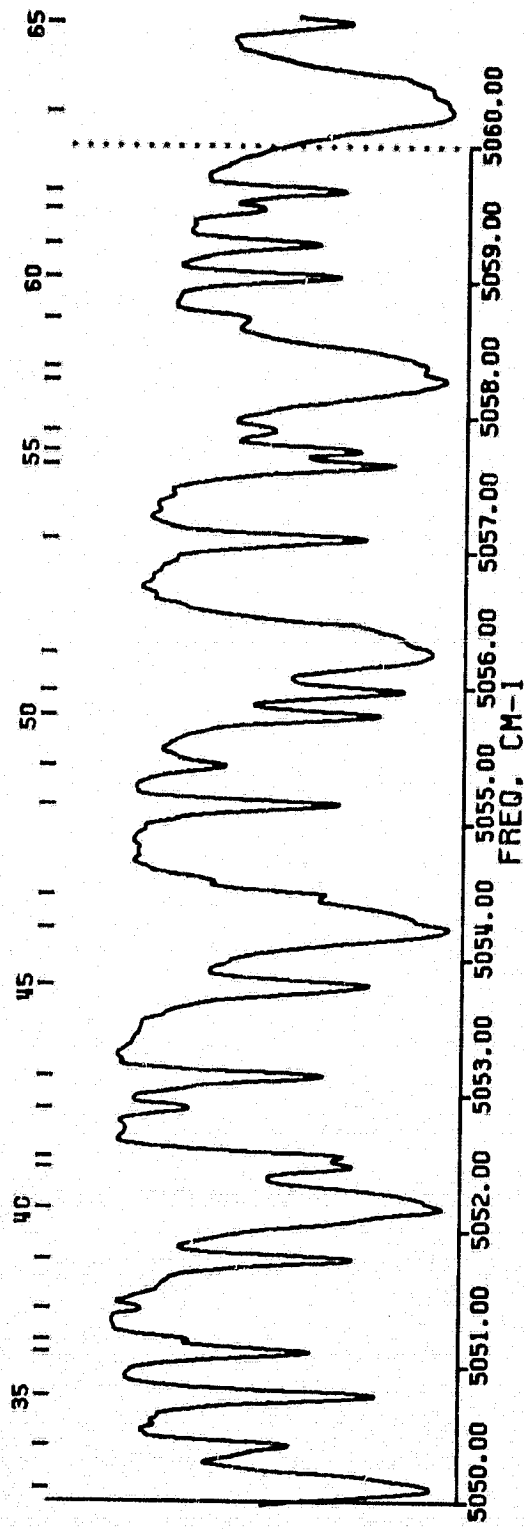
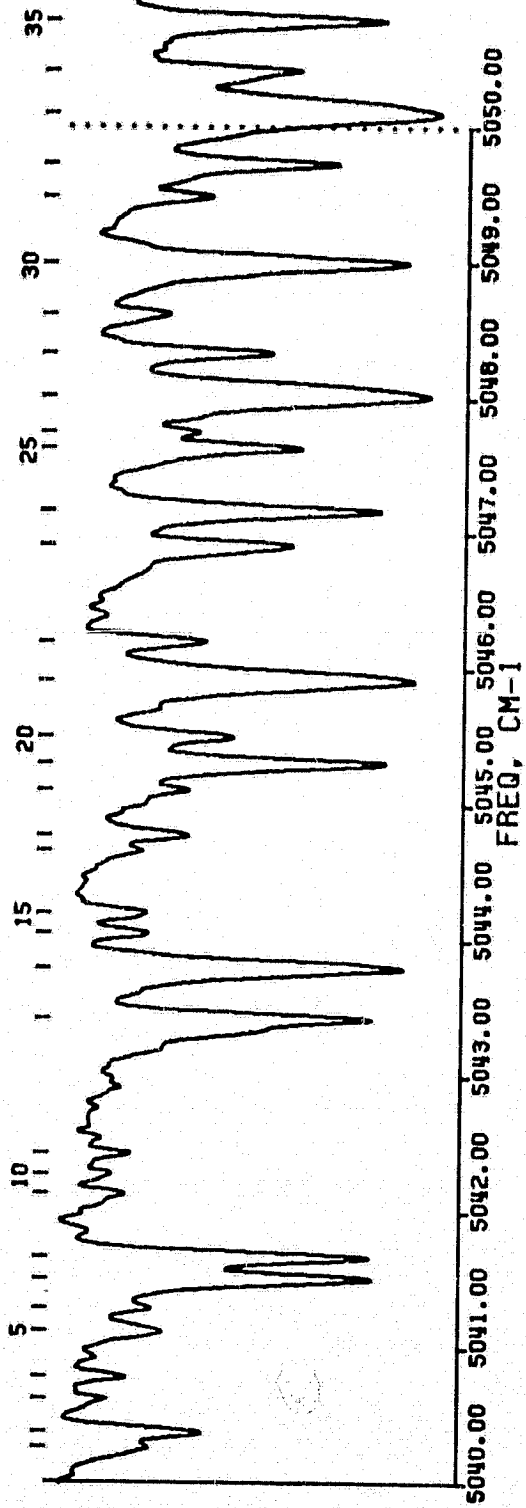


5030.00 5031.00 5032.00 5033.00 5034.00 5035.00 5036.00 5037.00 5038.00 5039.00 5040.00  
FREQ, CM-1

441

5040.261	5040.370	5040.616	5040.776	5041.113	5
5041.285	5041.503	5041.660	5042.128	5042.273	10
5042.425	5043.421	5043.792	5044.046	5044.198	15
5044.656	5044.769	5045.109	5045.304	5045.495	20
5045.913	5046.198	5046.910	5047.163	5047.625	25
5047.741	5048.011	5048.328	5048.613	5048.991	30
5049.480	5049.722	5050.097	5050.413	5050.781	35
5051.101	5051.191	5051.421	5051.785	5052.163	40
5052.468	5052.542	5052.901	5053.140	5053.808	45
5054.230	5054.472	5055.140	5055.425	5055.800	50
5055.980	5056.261	5057.097	5057.644	5057.750	55
5057.901	5058.273	5058.366	5058.722	5059.031	60
5059.276	5059.535	5059.667	5060.253	5060.906	65

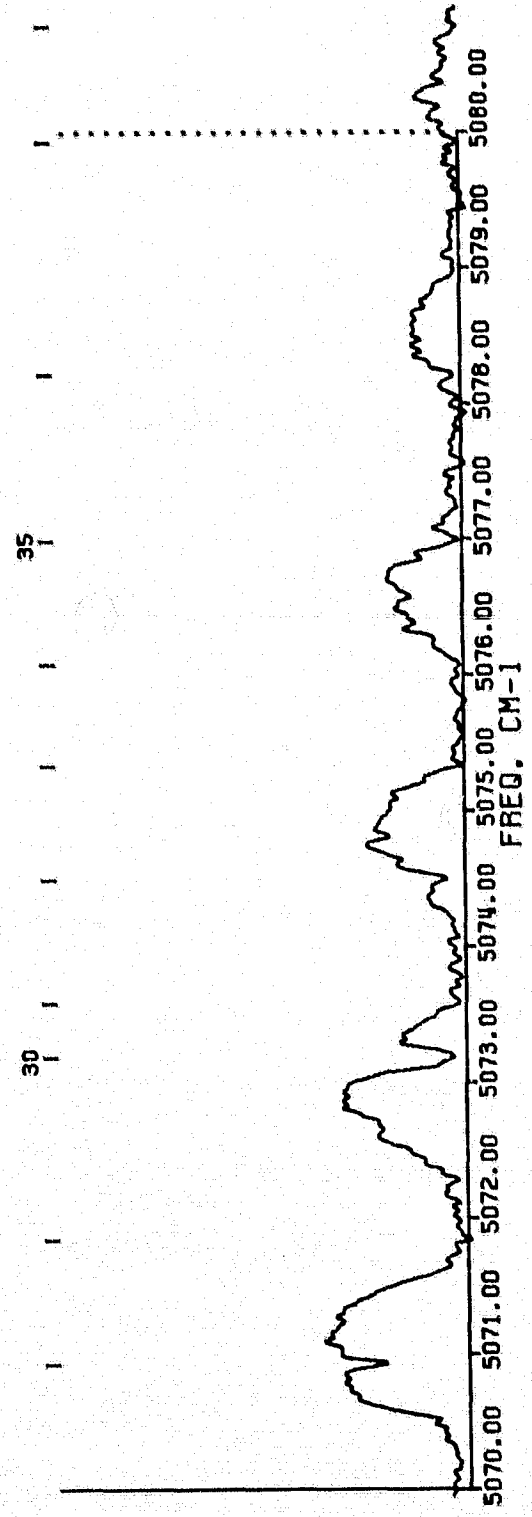
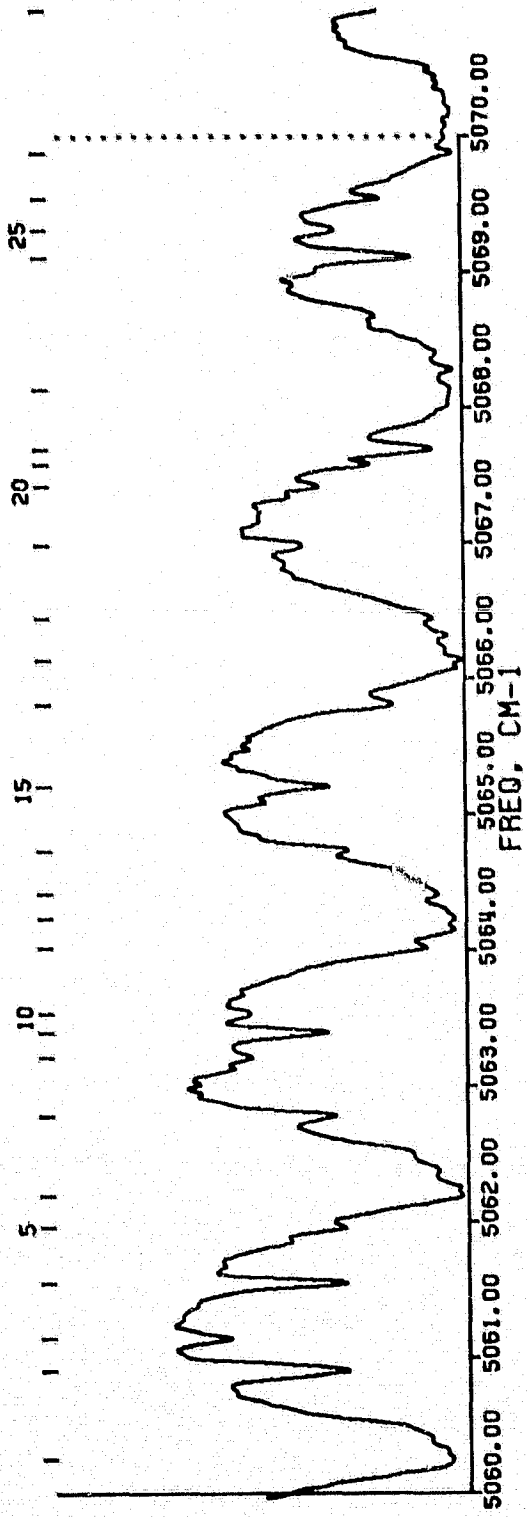
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5060.253	5060.906	5061.144	5061.550	5061.960	5
5062.195	5062.785	5063.214	5063.398	5063.538	10
5064.023	5064.238	5064.417	5064.738	5065.210	15
5065.812	5066.144	5066.448	5066.988	5067.421	20
5067.585	5067.695	5068.136	5069.109	5069.312	25
5069.546	5069.878	5070.929	5071.843	5073.187	30
5073.585	5074.495	5075.335	5076.078	5076.991	35
5078.210	5079.925	5080.785			40

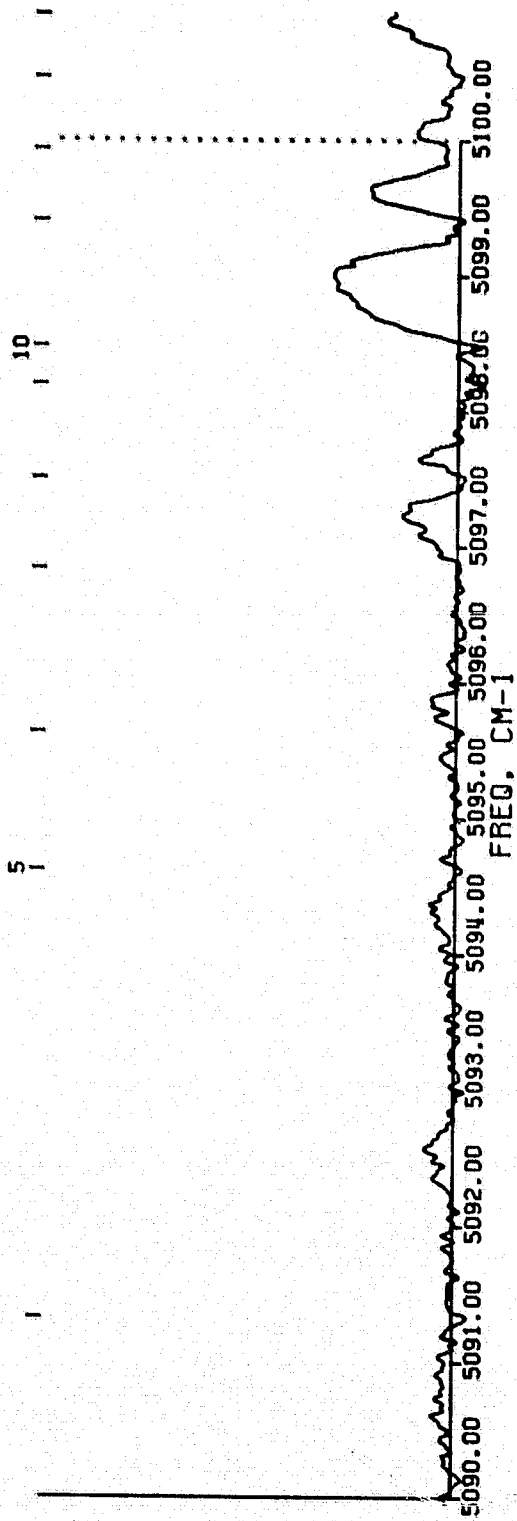
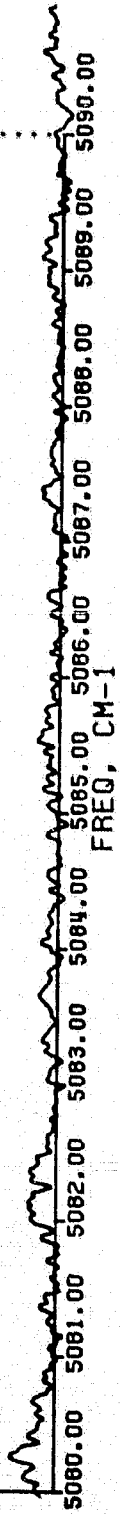
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445-

5081.929	5082.245	5083.945	5091.328	5094.625	5
5095.640	5096.843	5097.507	5098.198	5098.476	10
5099.406	5099.929	5100.460	5100.925		15

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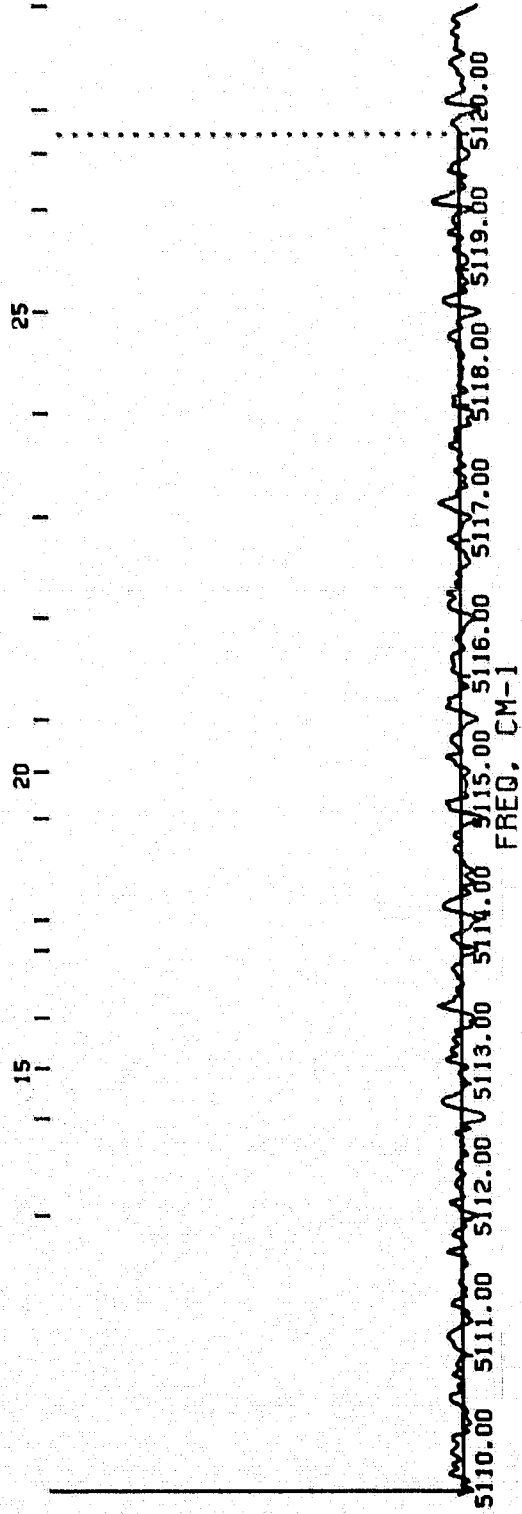
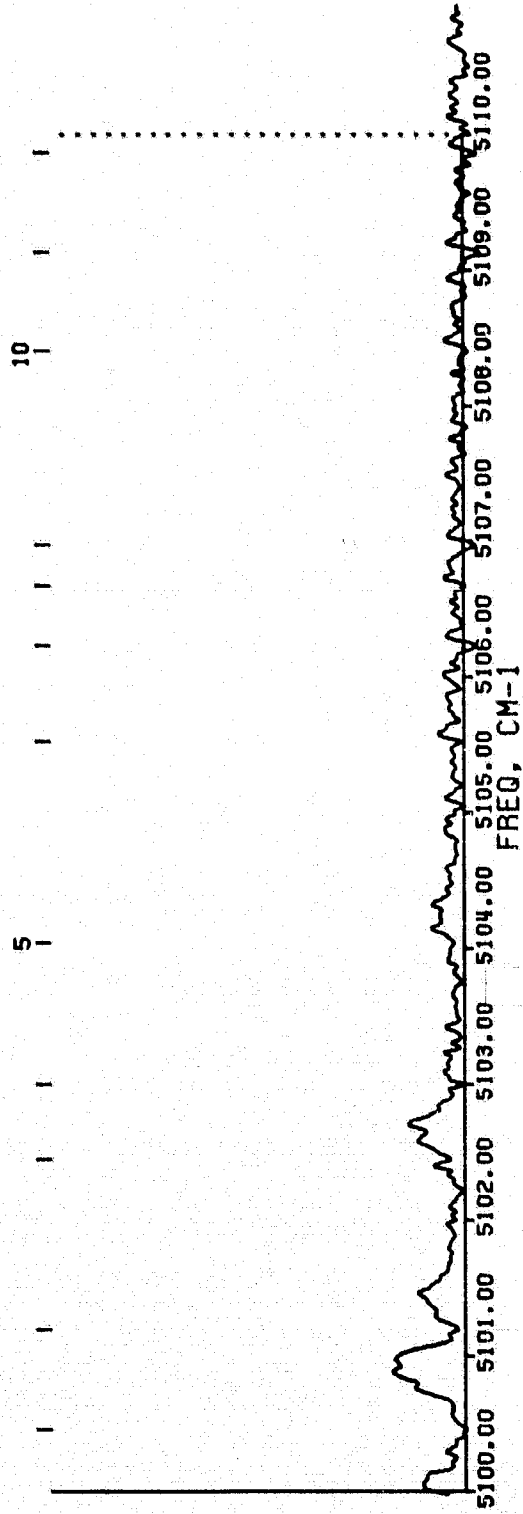


447



5100.460	5101.195	5102.448	5102.995	5104.042	5
5105.523	5106.234	5106.671	5106.972	5108.406	10
5109.132	5109.863	5112.031	5112.750	5113.120	15
5113.488	5113.988	5114.210	5114.960	5115.304	20
5115.687	5116.433	5117.175	5117.941	5118.691	25
5119.445	5119.859	5120.183	5120.941		30

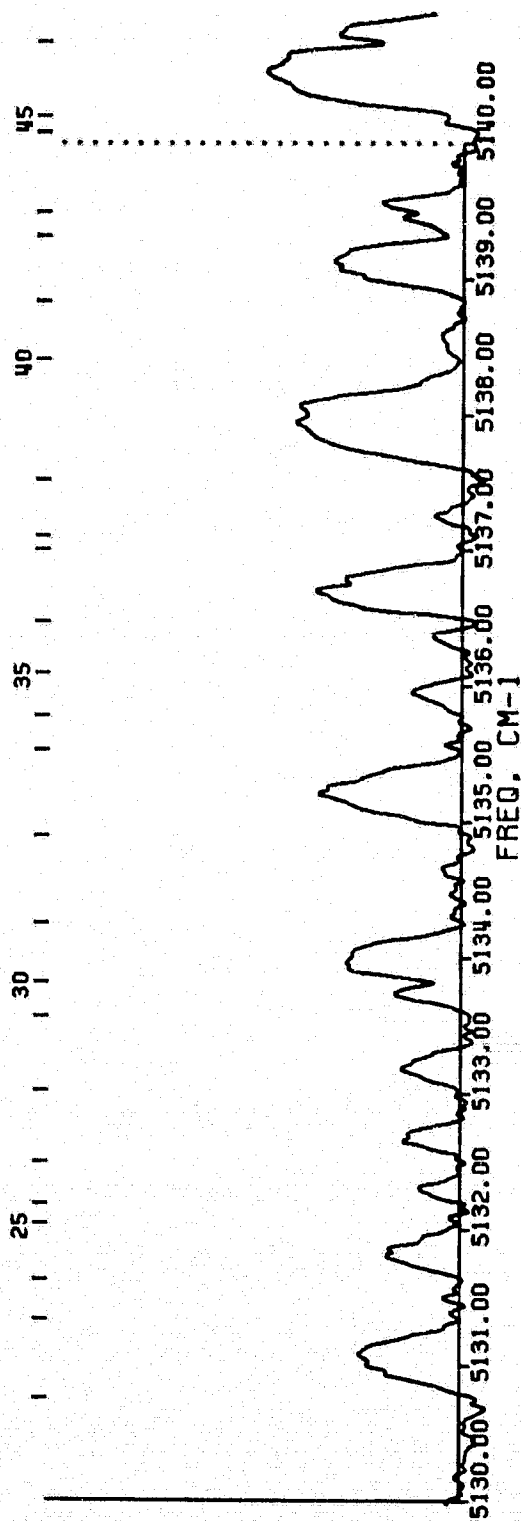
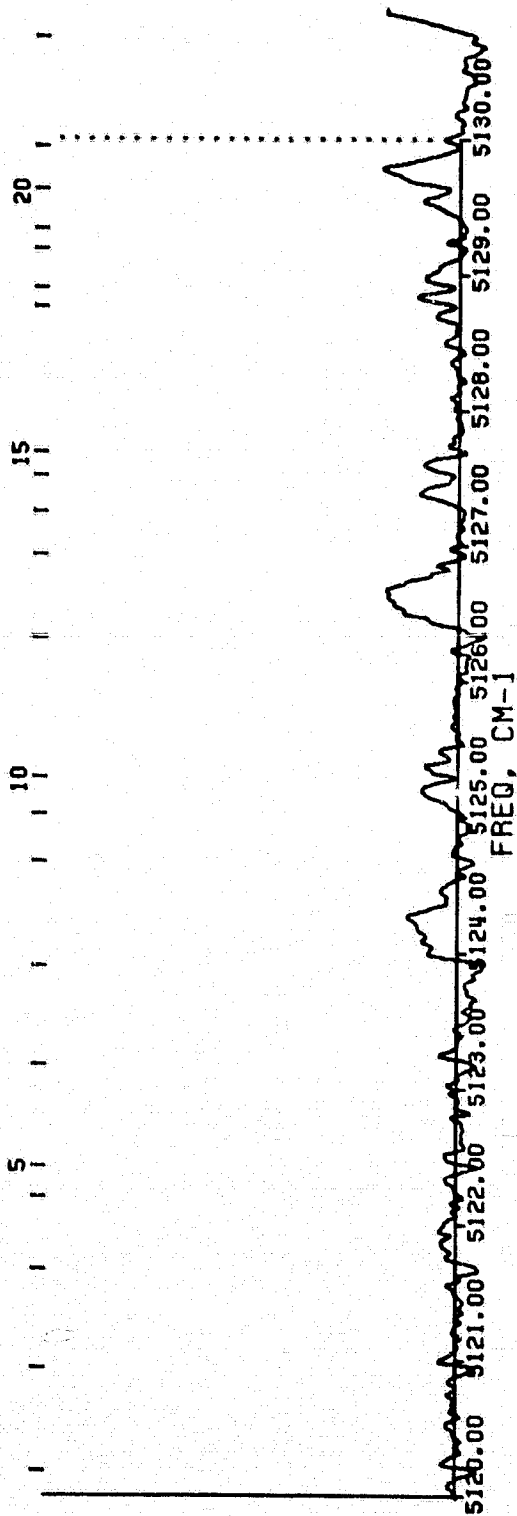
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449

5120.183	5120.941	5121.667	5122.198	5122.425	5
5123.171	5123.901	5124.671	5125.023	5125.292	10
5126.320	5126.933	5127.250	5127.515	5127.691	15
5128.761	5128.901	5129.187	5129.335	5129.628	20
5129.945	5130.750	5131.335	5131.628	5132.042	25
5132.187	5132.495	5133.023	5133.566	5133.816	30
5134.253	5134.894	5135.526	5135.776	5136.093	35
5136.468	5137.000	5137.101	5137.515	5138.401	40
5138.828	5139.316	5139.488	5140.078	5140.195	45
5140.738					50

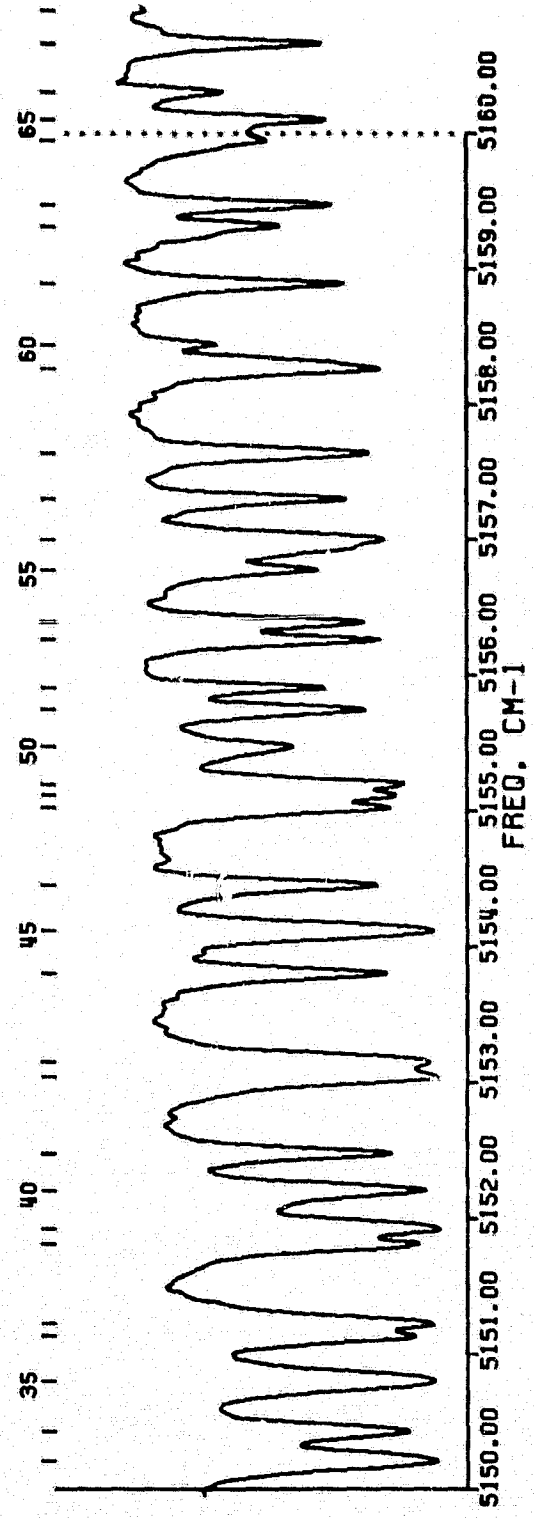
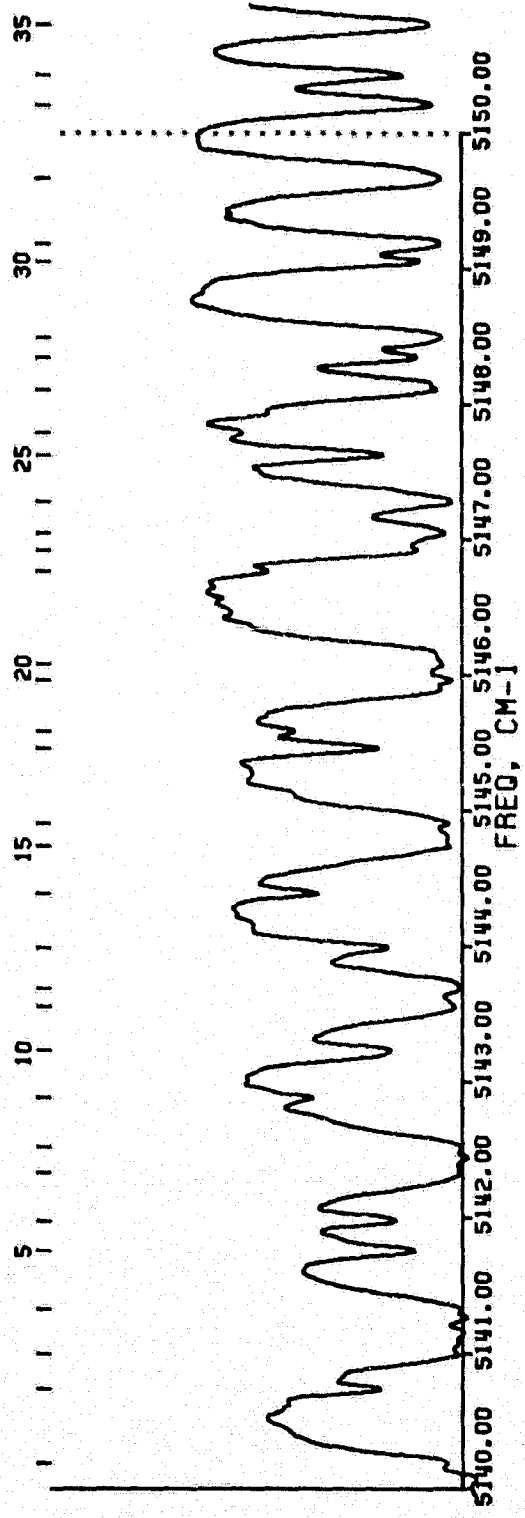
450



451

5140.195	5140.738	5140.995	5141.323	5141.757	5
5141.980	5142.331	5142.523	5142.886	5143.238	10
5143.558	5143.691	5143.991	5144.394	5144.741	15
5144.910	5145.464	5145.589	5145.964	5146.085	20
5146.769	5146.925	5147.050	5147.281	5147.625	25
5147.792	5148.109	5148.343	5148.495	5149.054	30
5149.187	5149.667	5150.210	5150.429	5150.800	35
5151.128	5151.218	5151.808	5151.921	5152.203	40
5152.472	5153.042	5153.151	5153.804	5154.120	45
5154.453	5155.026	5155.120	5155.198	5155.480	50
5155.750	5155.910	5156.265	5156.394	5156.781	55
5157.003	5157.300	5157.640	5158.261	5158.441	60
5158.890	5159.316	5159.472	5159.948	5160.101	65
5160.304	5160.663	5160.910			70

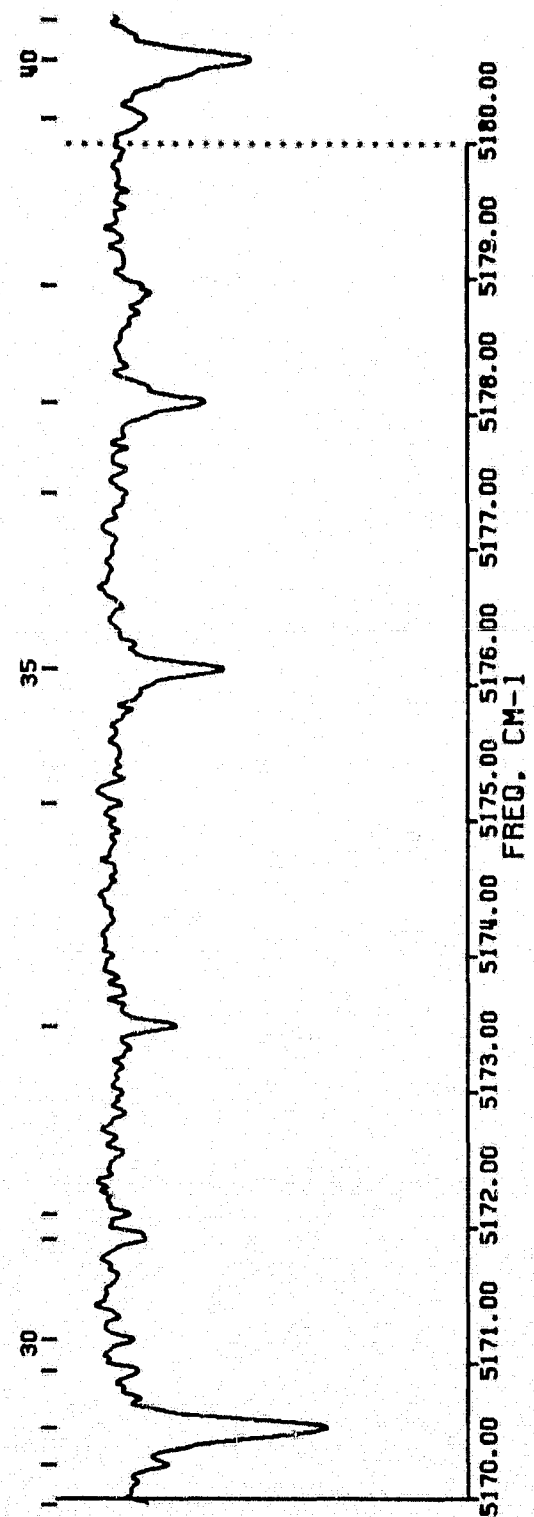
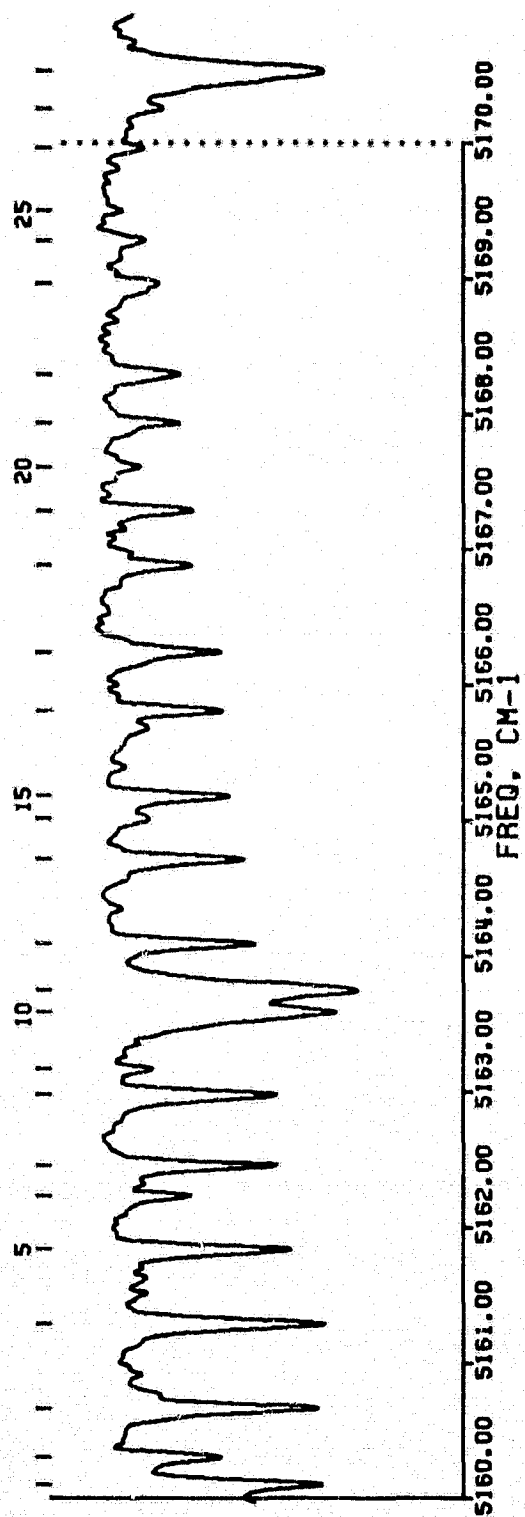
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453

5160.101	5160.304	5160.663	5161.281	5161.835	5
5162.230	5162.453	5162.976	5163.167	5163.589	10
5163.745	5164.089	5164.710	5165.011	5165.179	15
5165.808	5166.241	5166.882	5167.285	5167.605	20
5167.933	5168.292	5168.964	5169.281	5169.500	25
5169.960	5170.253	5170.531	5170.948	5171.179	30
5171.921	5172.105	5173.491	5175.132	5176.125	35
5177.421	5178.093	5178.956	5180.187	5180.620	40
5180.917					45

434

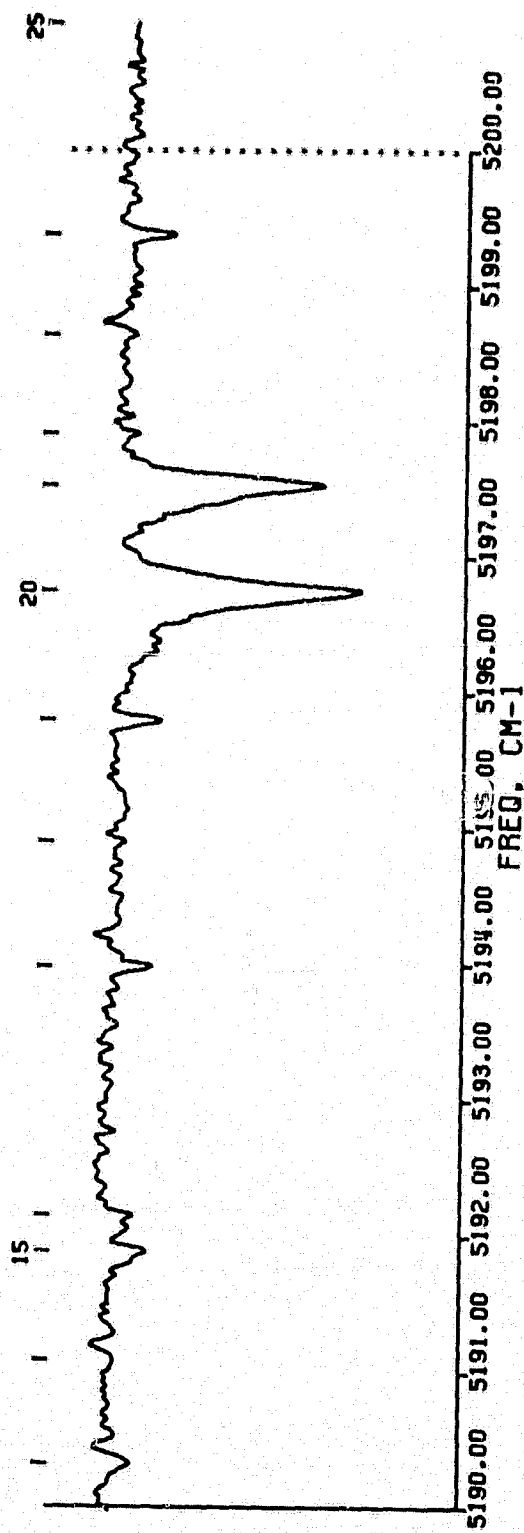
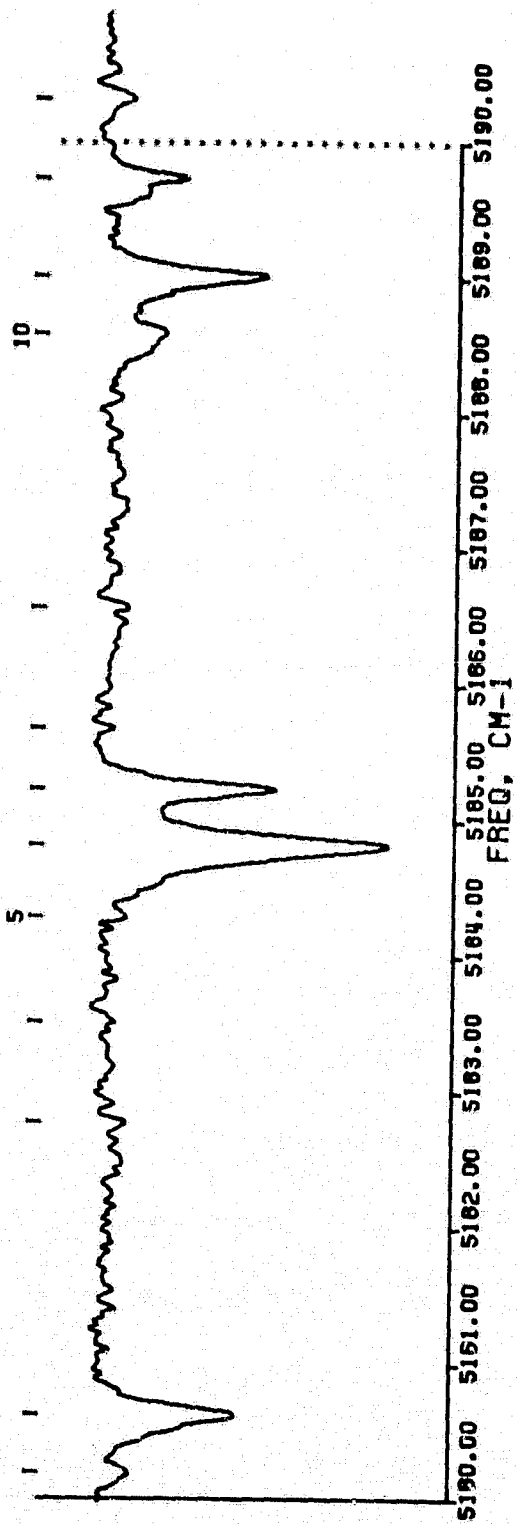


458



5180.191	5180.620	5182.776	5185.515	5184.285	5
5184.820	5185.230	5185.679	5186.566	5188.585	10
5189.011	5189.734	5190.320	5191.081	5191.886	15
5192.151	5193.988	5194.901	5195.800	5196.753	20
5197.531	5197.910	5198.636	5199.375	5200.933	25

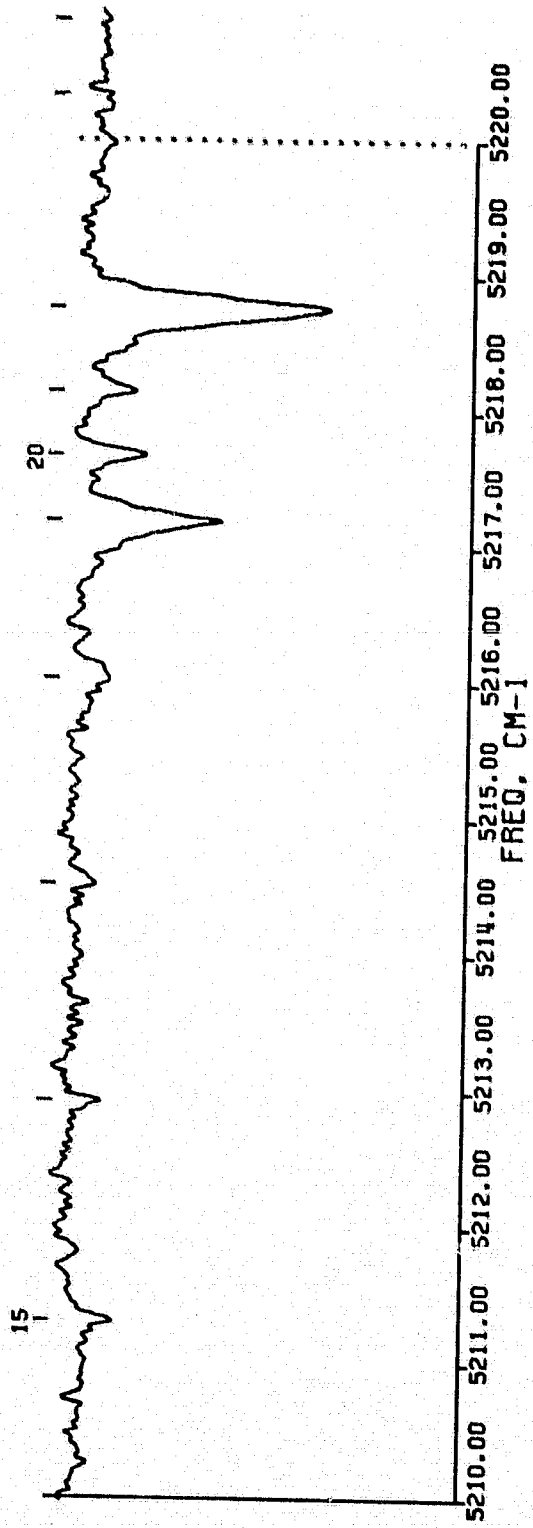
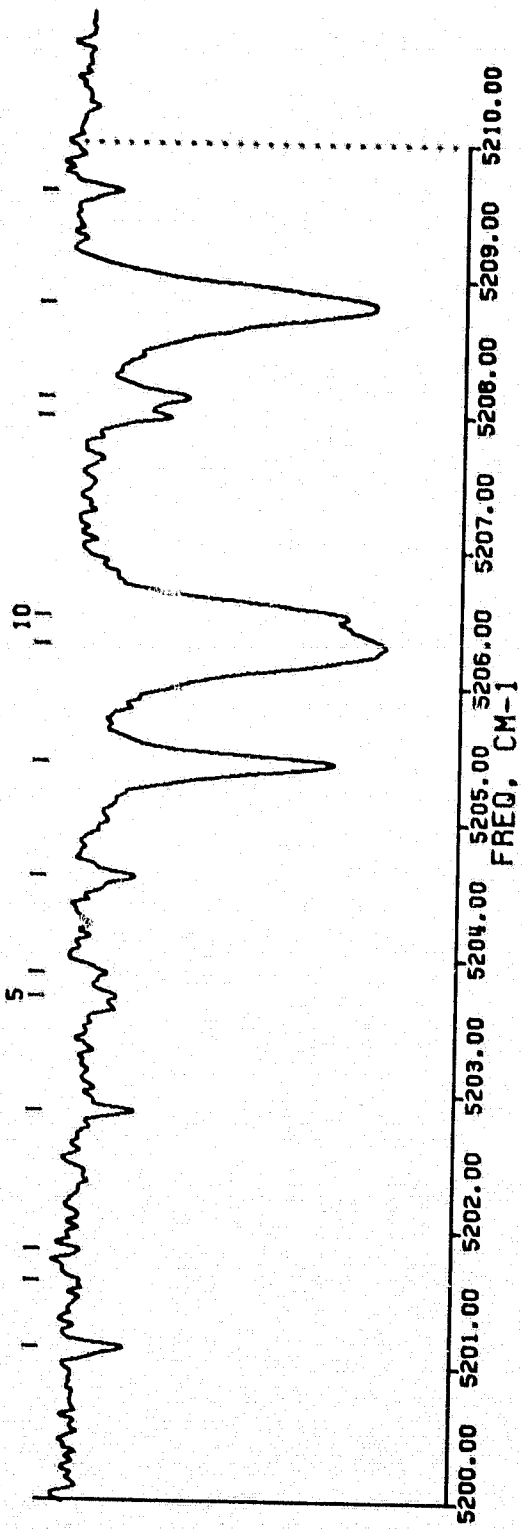
436



457

5201.125	5201.613	5201.843	5202.863	5203.706	5
5203.878	5204.593	5205.433	5206.300	5206.511	10
5207.980	5208.125	5208.812	5209.644	5211.304	15
5212.921	5214.519	5216.026	5217.191	5217.675	20
5218.144	5218.757	5220.328	5220.882		25

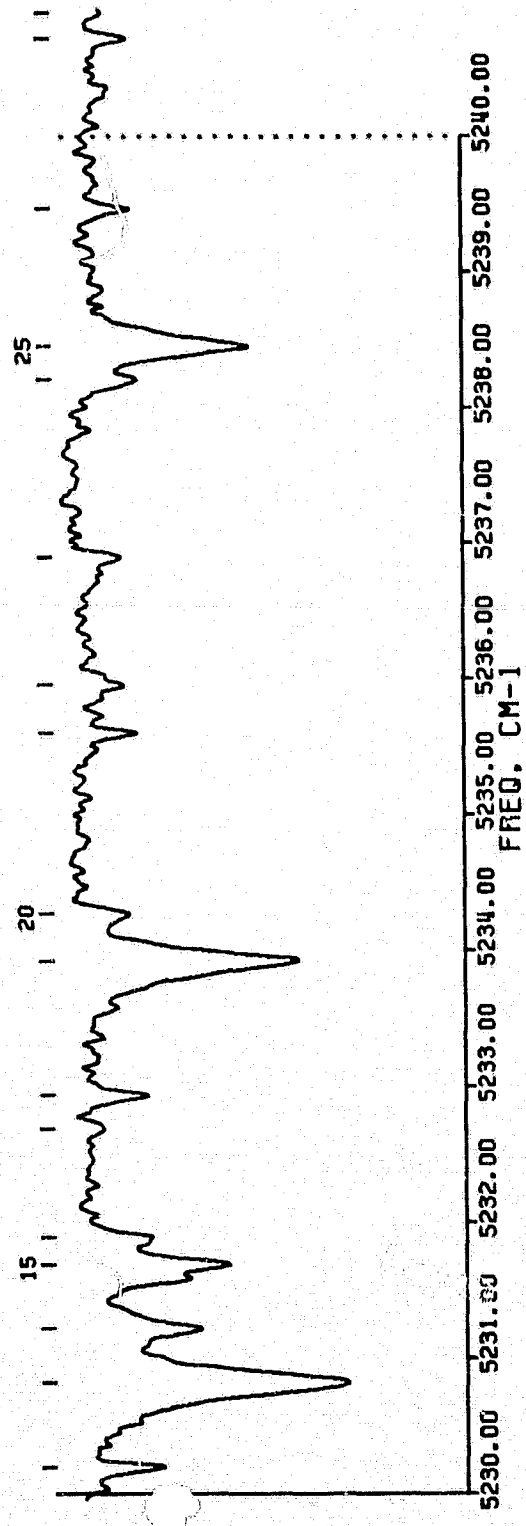
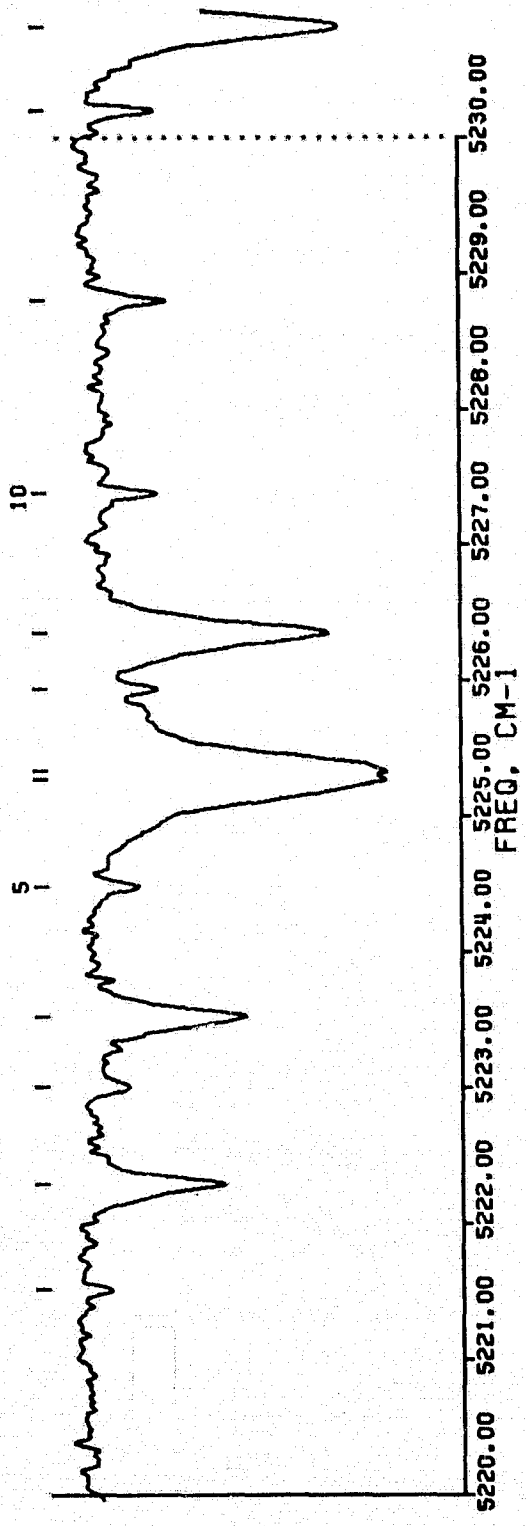
456



5

5221.511	5222.292	5223.007	5223.526	5224.484	5
5225.273	5225.335	5225.941	5226.355	5227.378	10
5228.800	5230.198	5230.820	5231.218	5231.691	15
5231.890	5232.687	5232.933	5233.925	5234.273	20
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5239.464	5240.722	5240.910			30

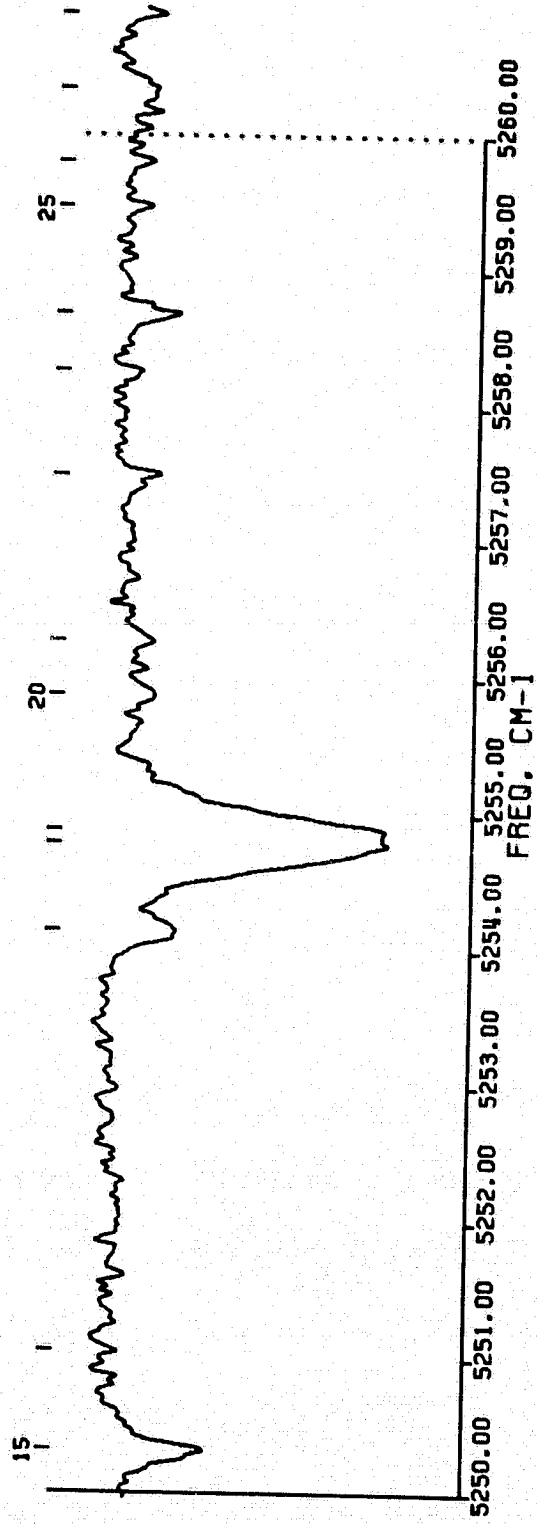
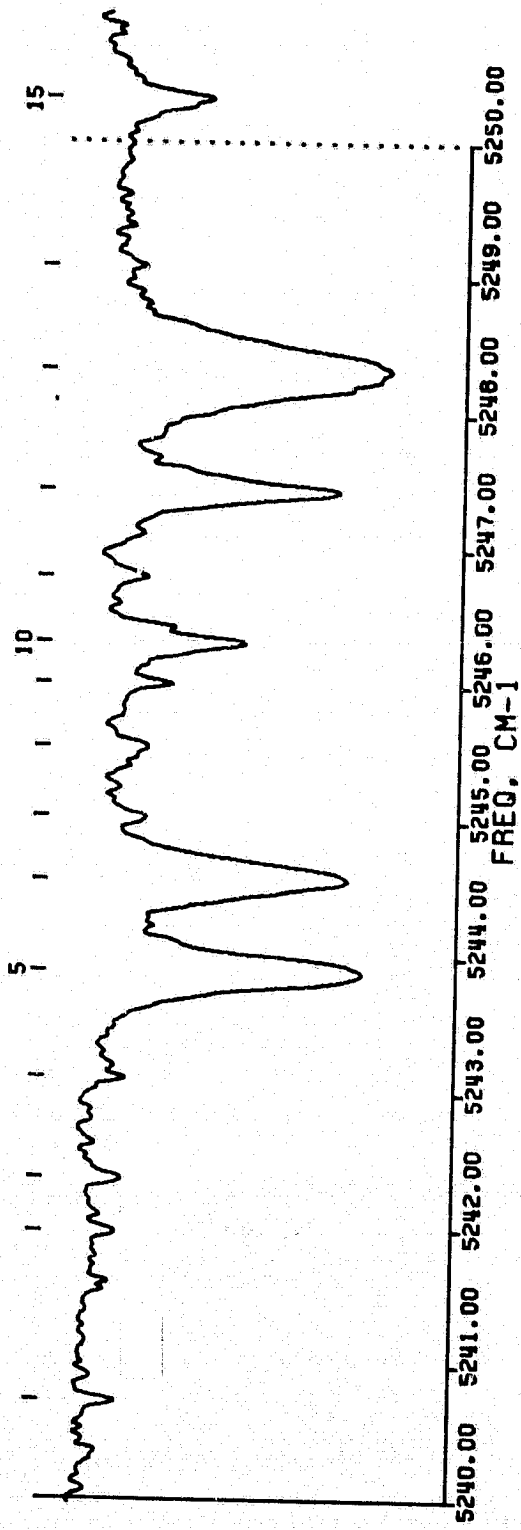
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461

5240.722	5241.972	5242.359	5243.105	5243.886	5
5244.562	5245.026	5245.538	5246.007	5246.308	10
5246.792	5247.429	5248.320	5249.081	5250.320	15
5251.042	5254.140	5254.781	5254.882	5255.875	20
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5259.804	5260.343	5260.894			30

462

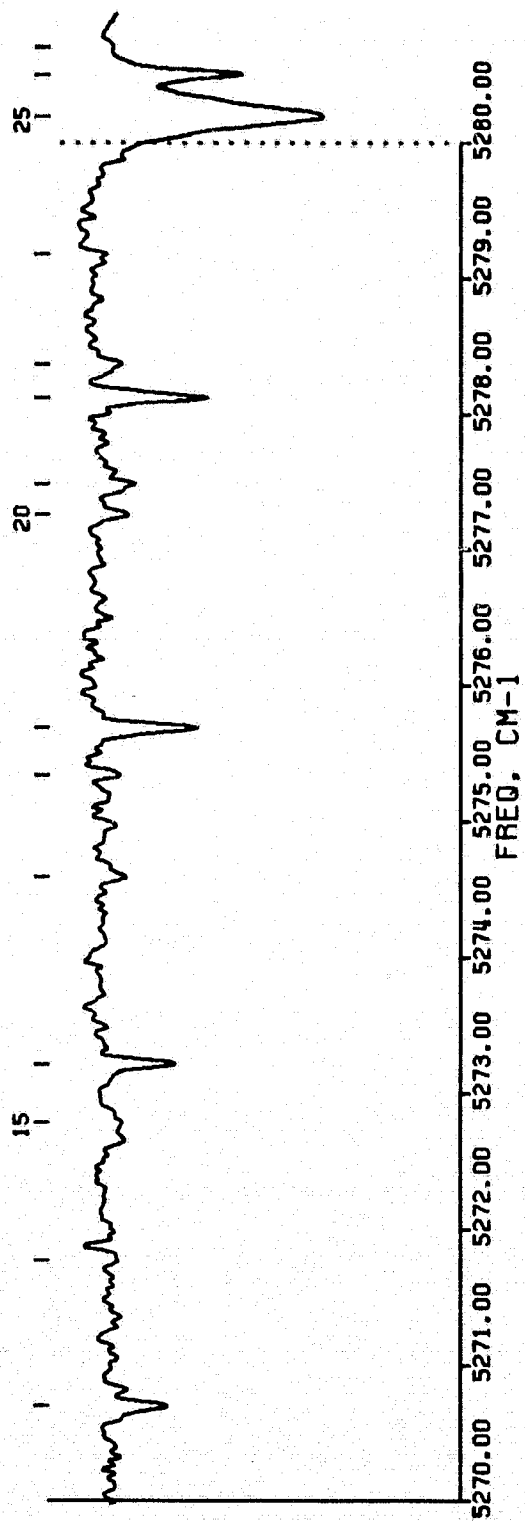
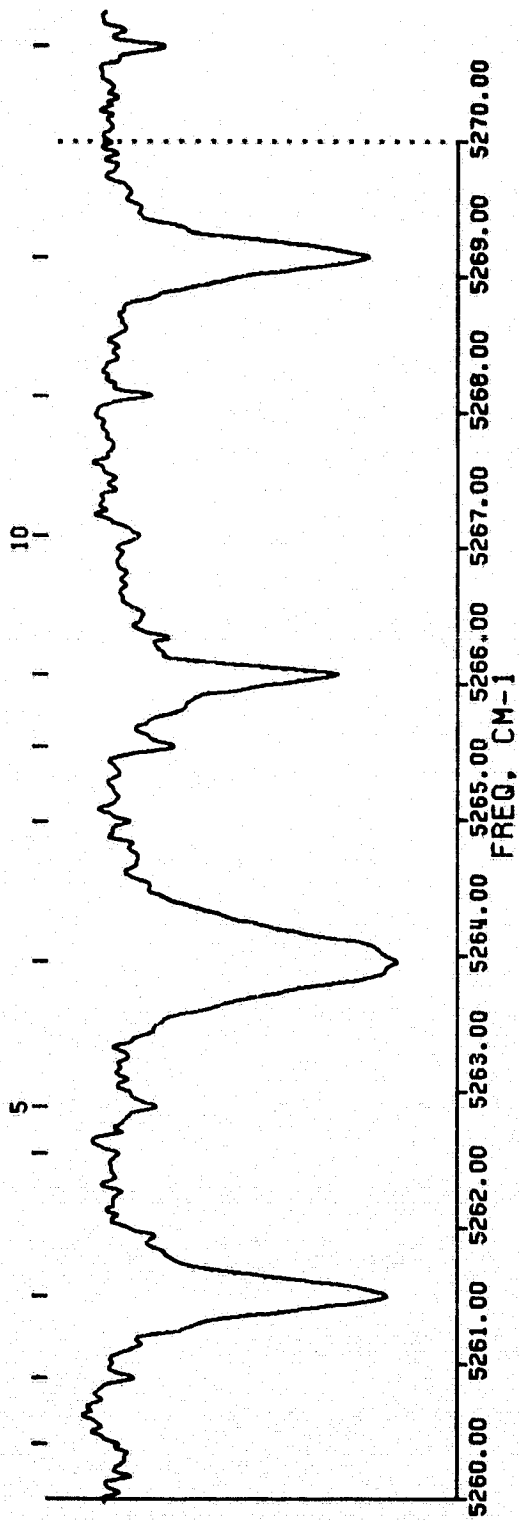


462



5260.406	5260.894	5261.495	5262.542	5262.886	5
5263.956	5264.988	5265.542	5266.070	5267.093	10
5268.125	5269.144	5270.703	5271.773	5272.788	15
5273.218	5274.597	5275.343	5275.695	5277.261	20
5277.488	5278.125	5278.370	5279.179	5280.195	25
5280.503	5280.703				30

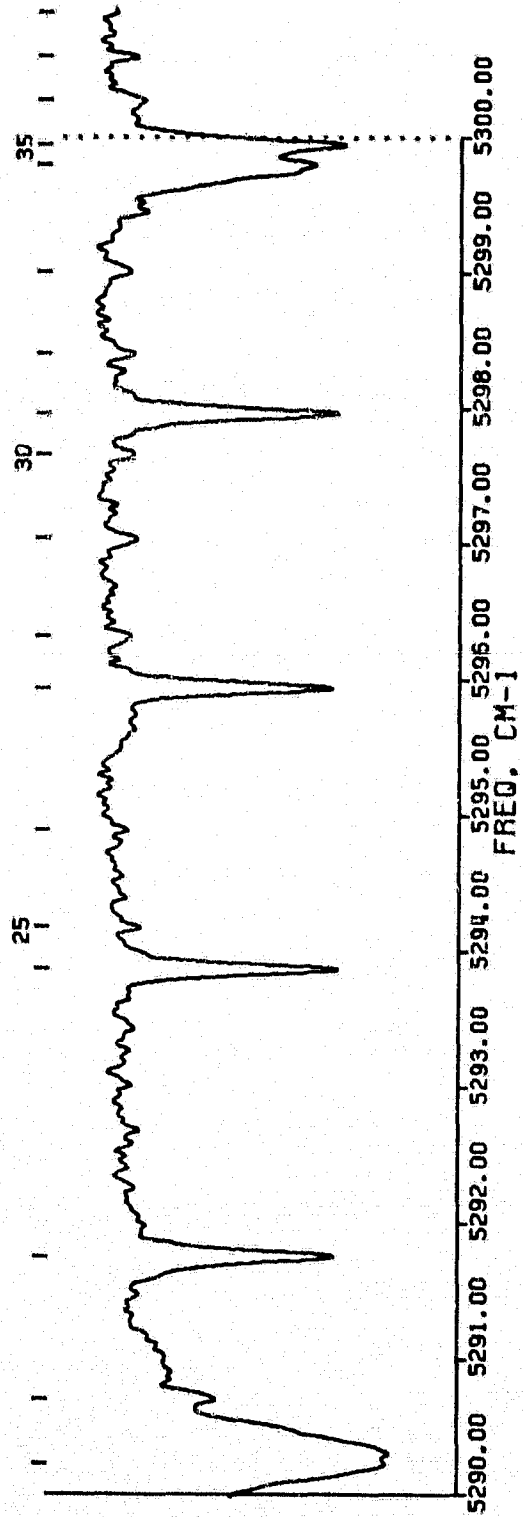
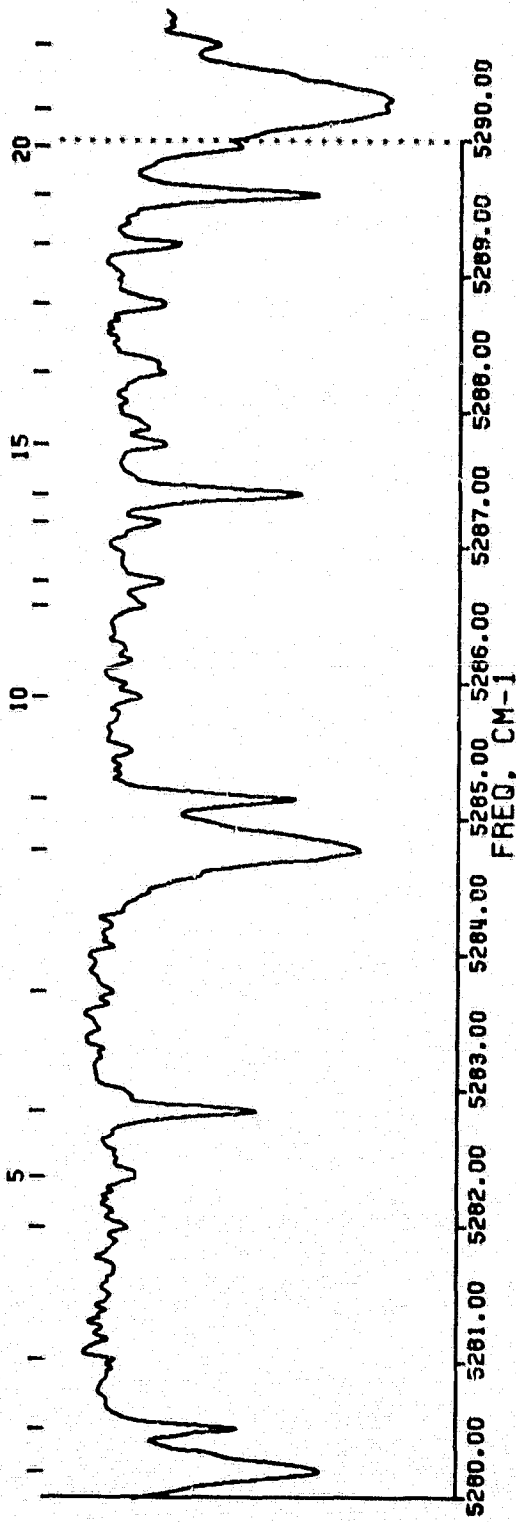
464



465

5280.195	5280.503	5281.015	5281.991	5282.363	5
5282.847	5283.726	5284.769	5285.144	5285.898	10
5286.566	5286.750	5287.183	5287.390	5287.757	15
5288.288	5288.792	5289.234	5289.601	5289.956	20
5290.226	5290.703	5291.753	5293.870	5294.179	25
5294.898	5295.941	5296.323	5297.042	5297.663	30
5297.964	5298.401	5299.007	5299.796	5299.945	35
5300.269	5300.593	5300.913			40

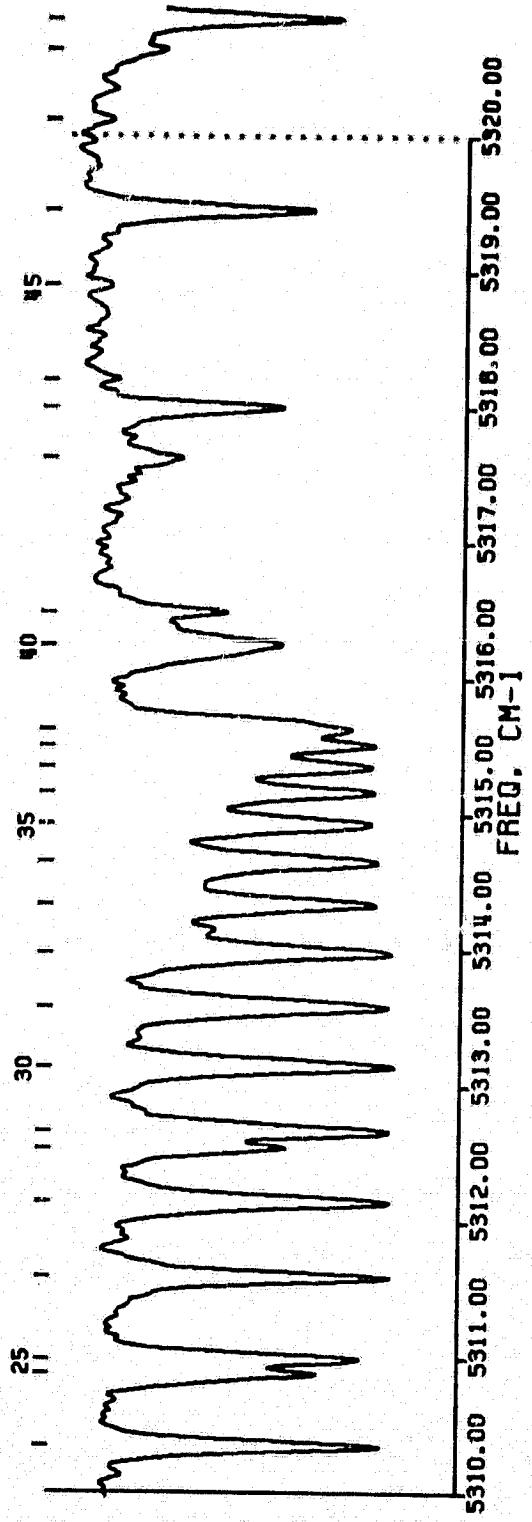
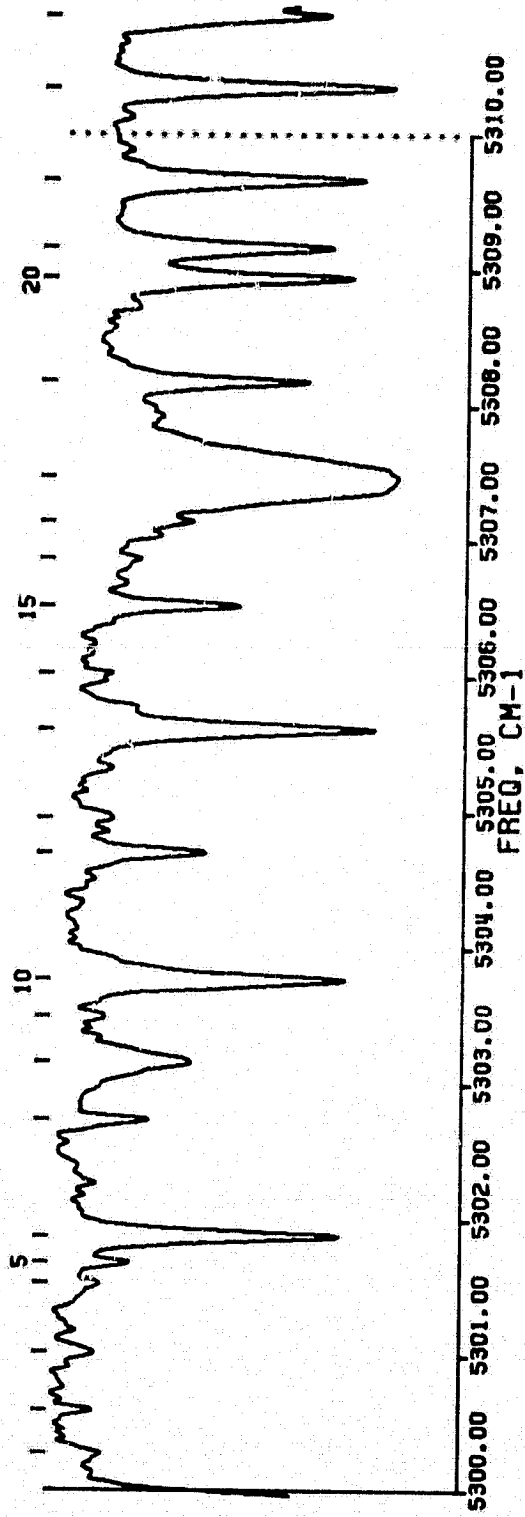
466



467

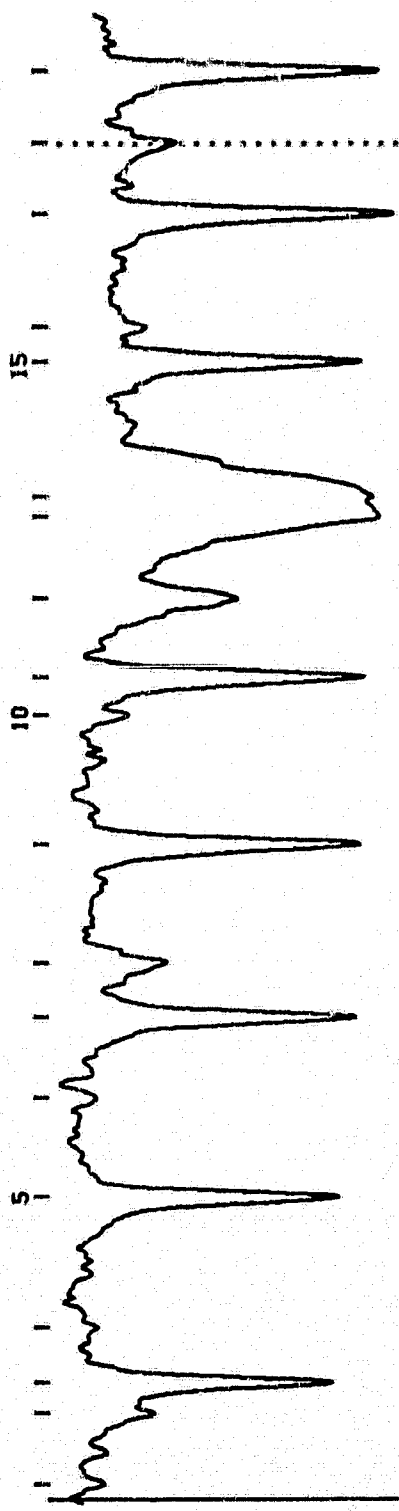
5300.273	5300.593	5301.019	5301.526	5301.679	5
5301.875	5302.734	5303.160	5303.495	5303.765	10
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5306.870	5307.144	5307.468	5308.175	5308.941	20
5309.163	5309.663	5310.343	5310.875	5310.984	25
5311.589	5312.144	5312.538	5312.660	5313.140	30
5313.578	5313.976	5314.335	5314.648	5314.933	35
5315.163	5315.351	5315.507	5315.625	5316.250	40
5316.488	5317.625	5318.000	5318.203	5318.898	45
5319.453	5320.116	5320.636	5320.863		50

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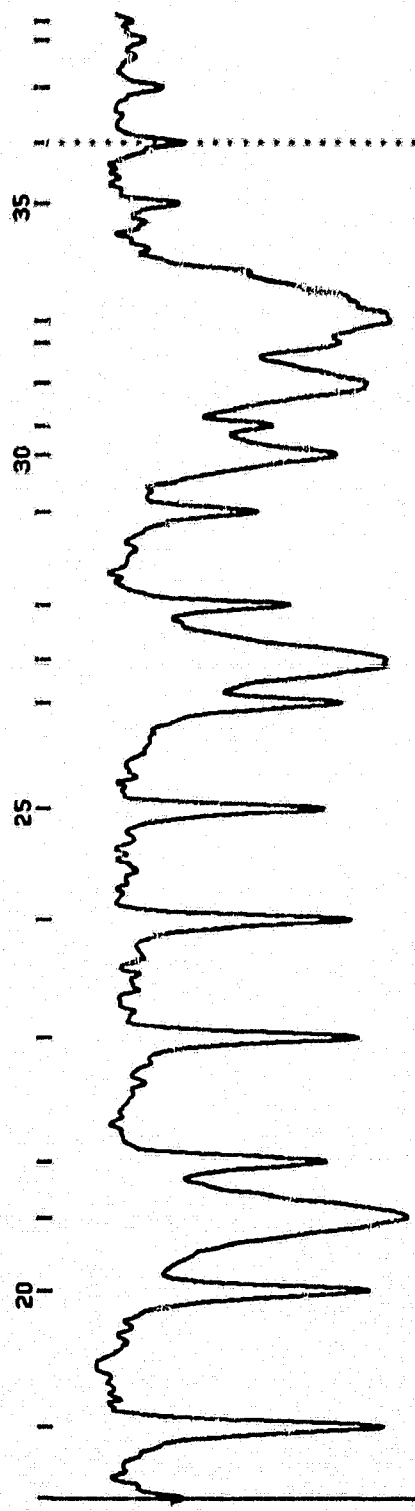


5309

5320.116	5320.636	5320.863	5321.273	5322.234	5
5322.960	5323.558	5323.960	5324.831	5325.785	10
5326.062	5326.644	5327.245	5327.394	5328.386	15
5328.644	5329.480	5330.007	5330.535	5331.535	20
5332.078	5332.488	5333.401	5334.269	5335.089	25
5335.866	5336.187	5336.589	5337.276	5337.695	30
5337.913	5338.226	5338.519	5338.679	5339.550	35
5339.995	5340.406	5340.757	5340.894		40



5320.00 5321.00 5322.00 5323.00 5324.00 5325.00 5326.00 5327.00 5328.00 5329.00 5330.00  
FREQ, CM-1



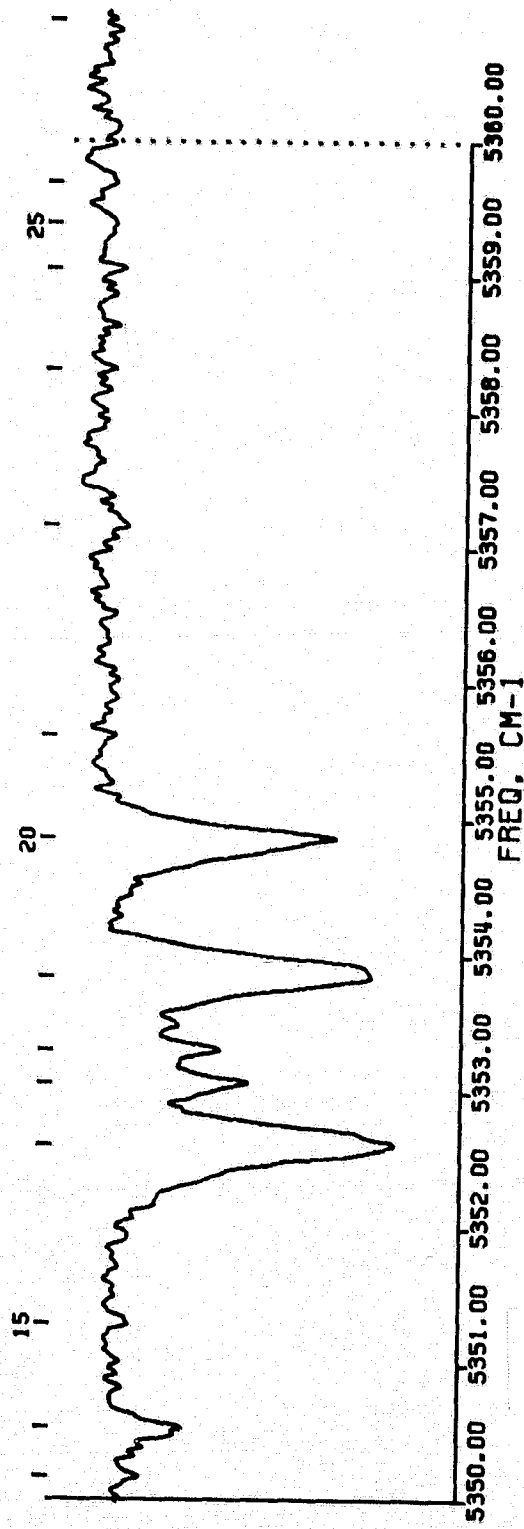
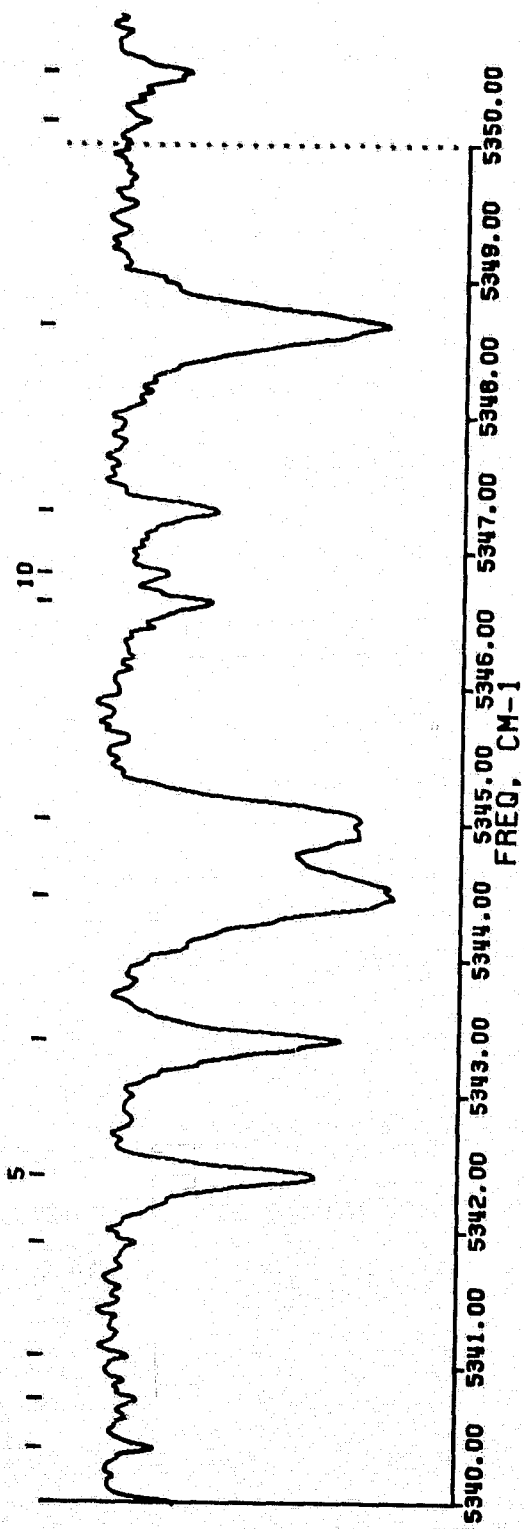
5330.00 5331.00 5332.00 5333.00 5334.00 5335.00 5336.00 5337.00 5338.00 5339.00 5340.00  
FREQ, CM-1

247



5340.401	5340.757	5341.078	5341.913	5342.406	5
5343.406	5344.460	5345.031	5346.628	5346.839	10
5347.296	5348.667	5350.171	5350.535	5351.296	15
5352.613	5353.070	5353.312	5353.855	5354.875	20
5355.625	5357.167	5358.320	5359.062	5359.398	25
5359.695	5360.898				30

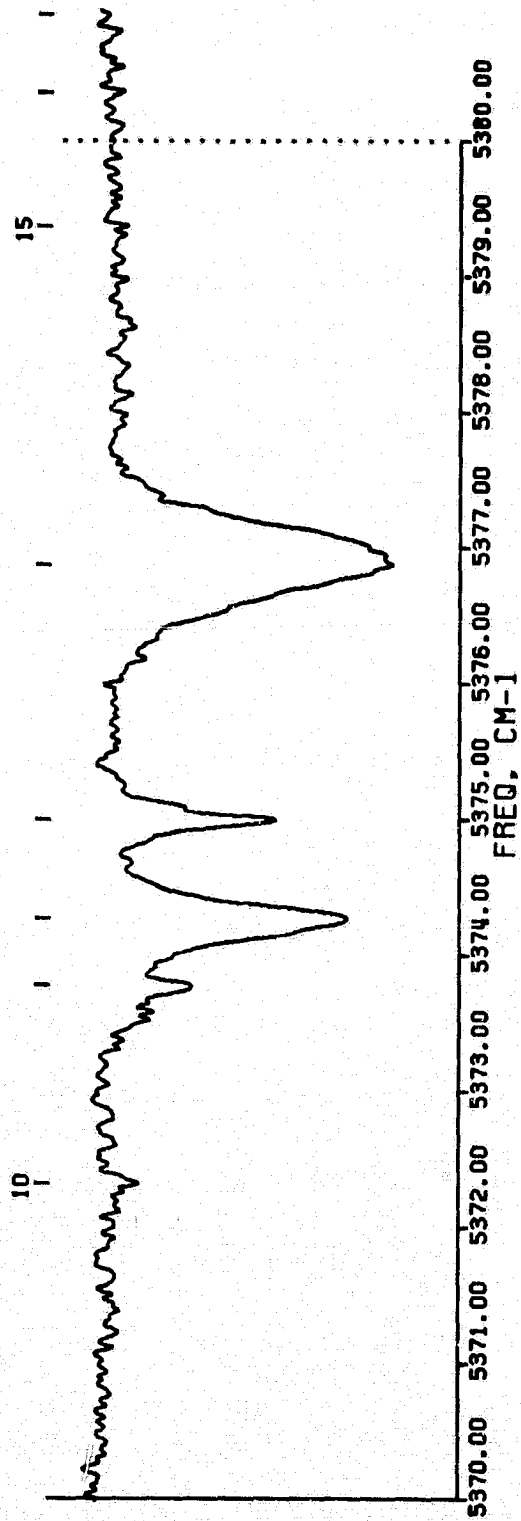
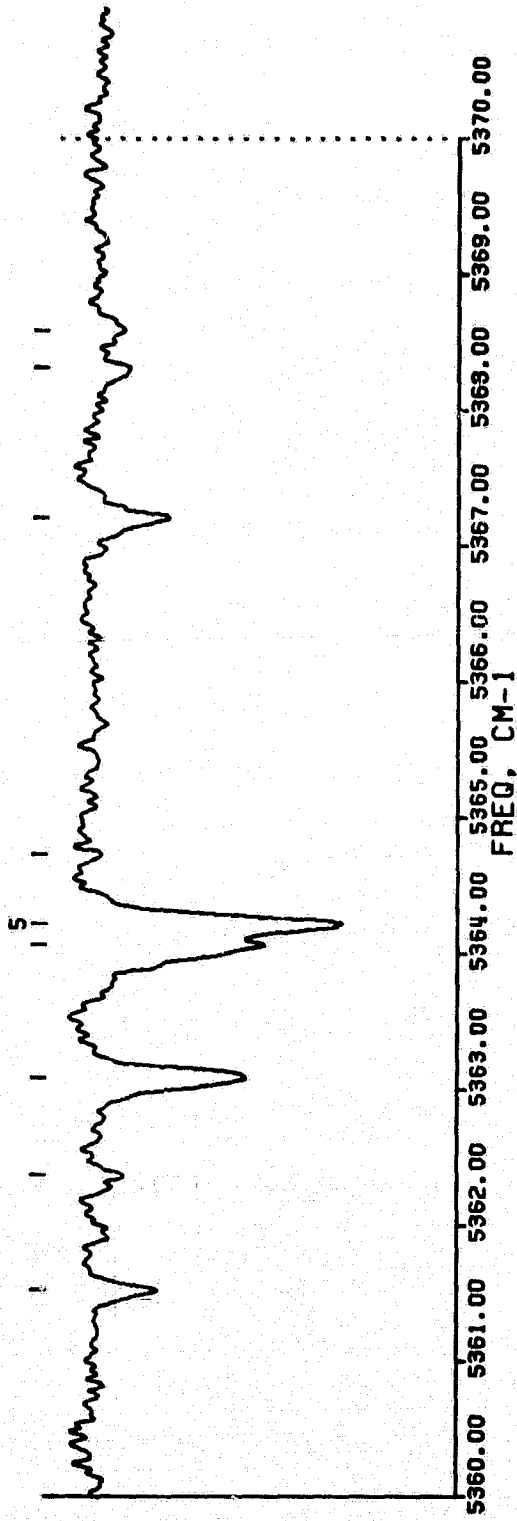
472



473

5361.519	5362.366	5363.081	5364.062	5364.218	5
5364.730	5367.206	5368.308	5368.585	5372.323	10
5373.781	5374.273	5375.000	5376.875	5379.370	15
5380.359	5380.929				20

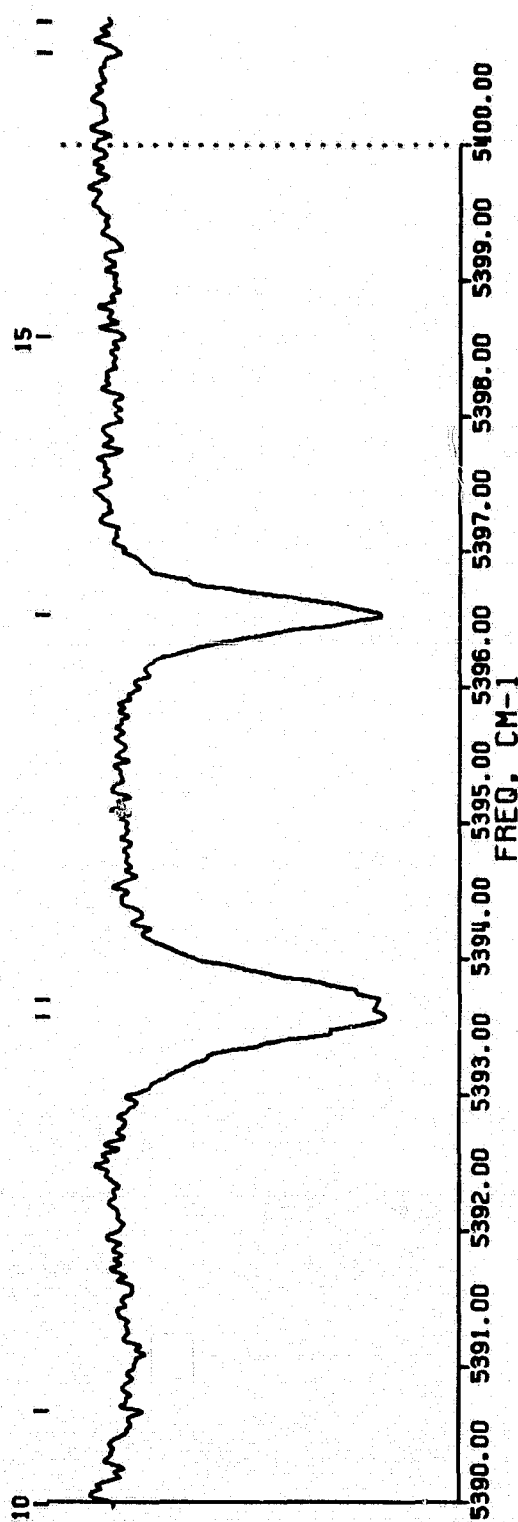
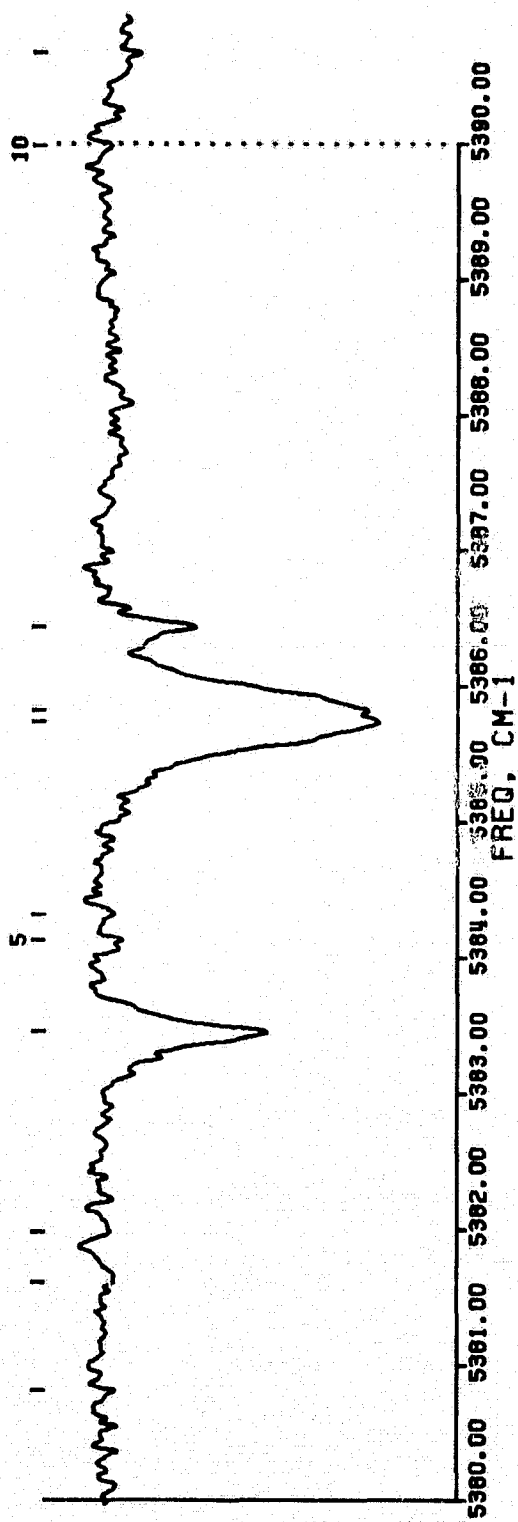
474



475

5380.804	5381.609	5381.980	5383.453	5384.128	5
5384.316	5385.734	5385.820	5386.437	5389.984	10
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5400.679	5400.910				20

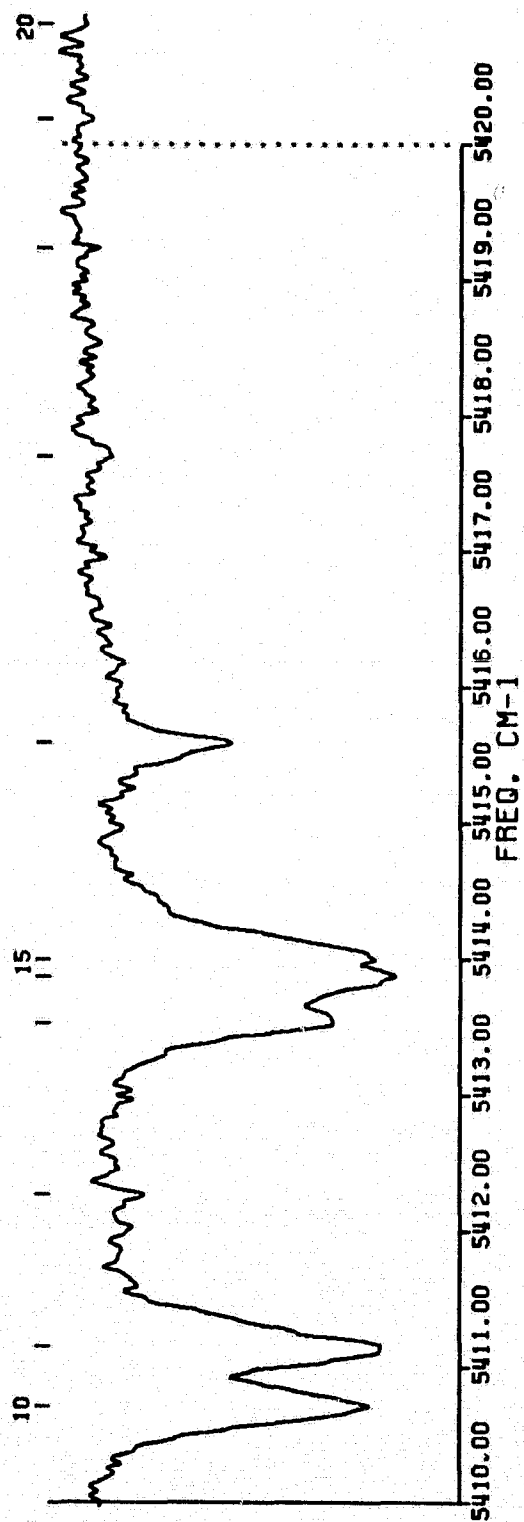
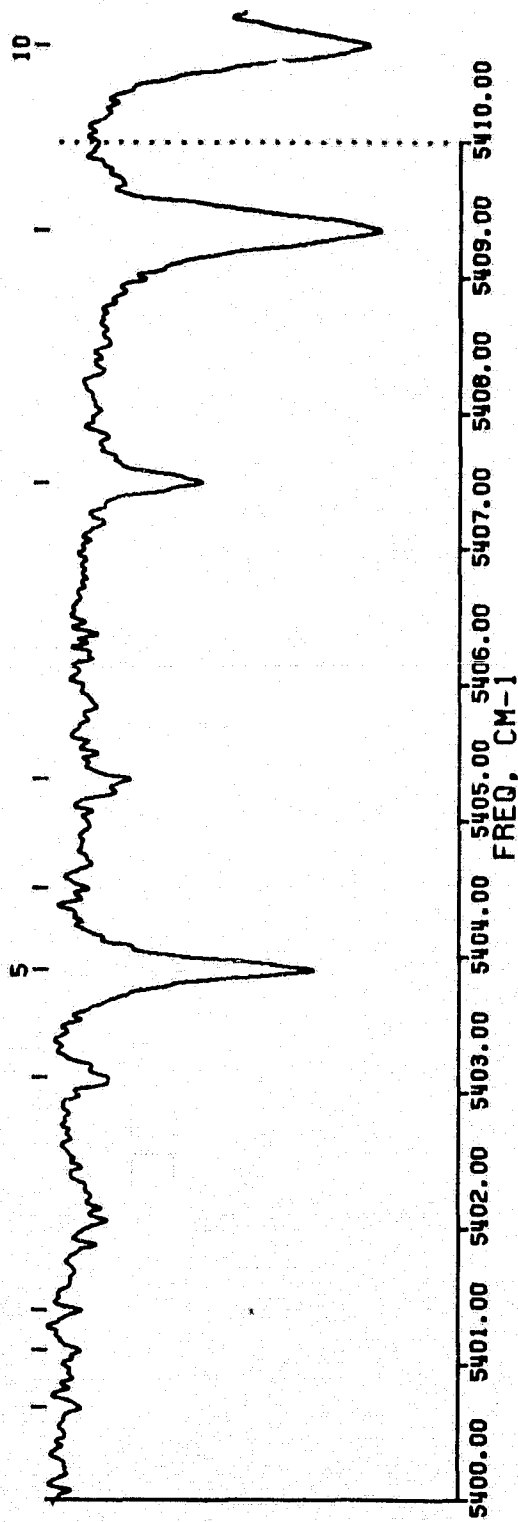
476



477

5400.679	5401.101	5401.394	5403.109	5403.901	5
5404.503	5405.308	5407.488	5409.347	5410.710	10
5411.151	5412.269	5413.531	5413.875	5414.000	15
5415.593	5417.703	5419.234	5420.187	5420.890	20

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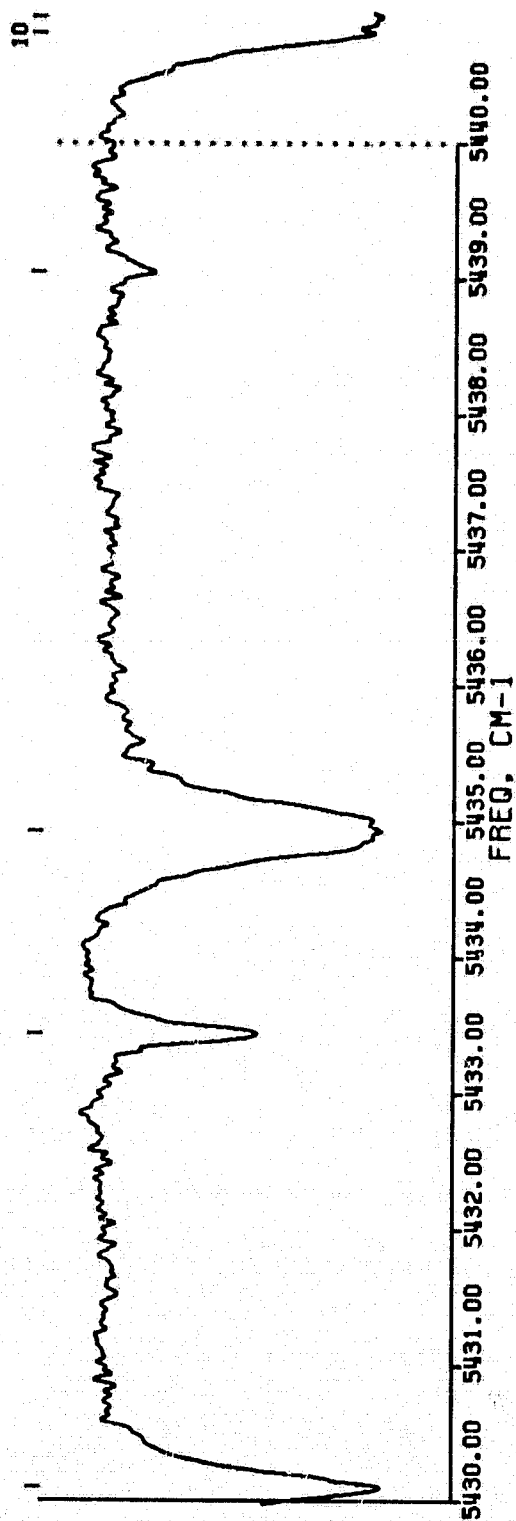
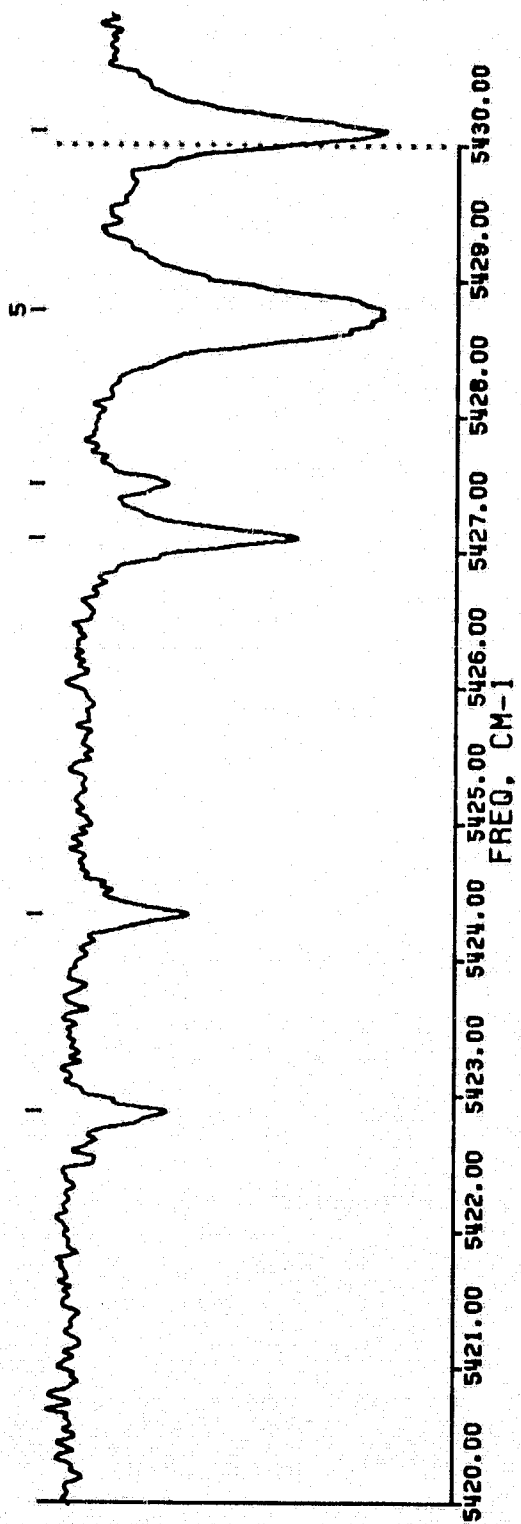


479



5422.878	5424.331	5427.101	5427.500	5428.781	5
5430.101	5433.441	5434.933	5439.046	5440.812	10
5440.929					15

480

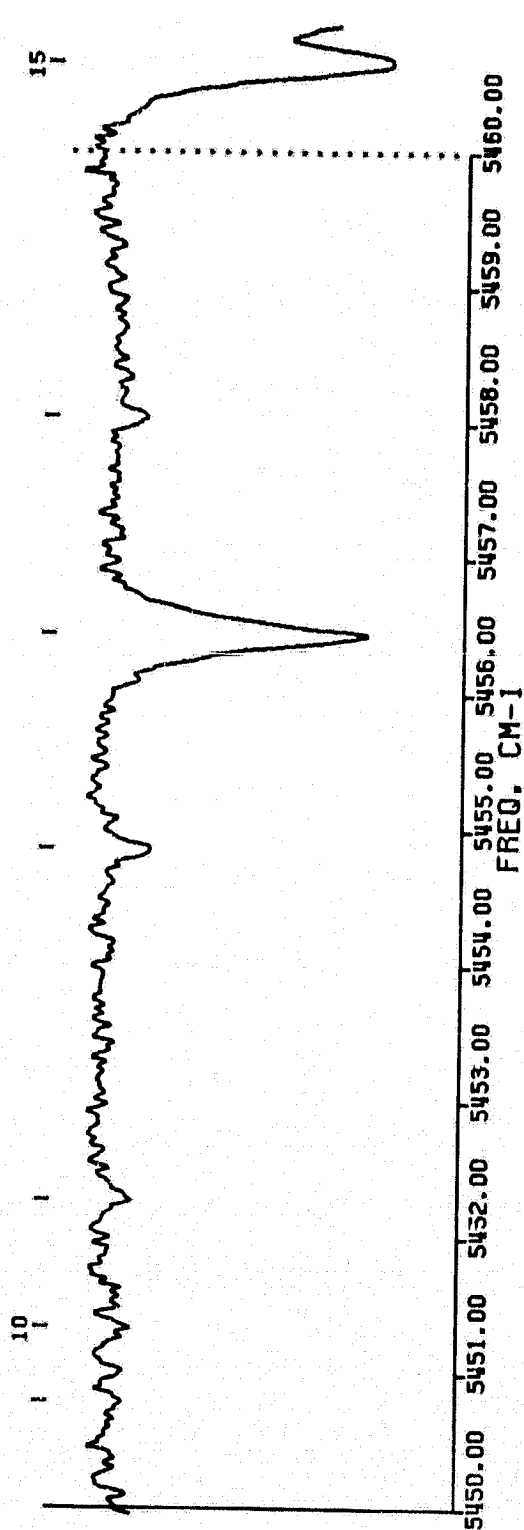
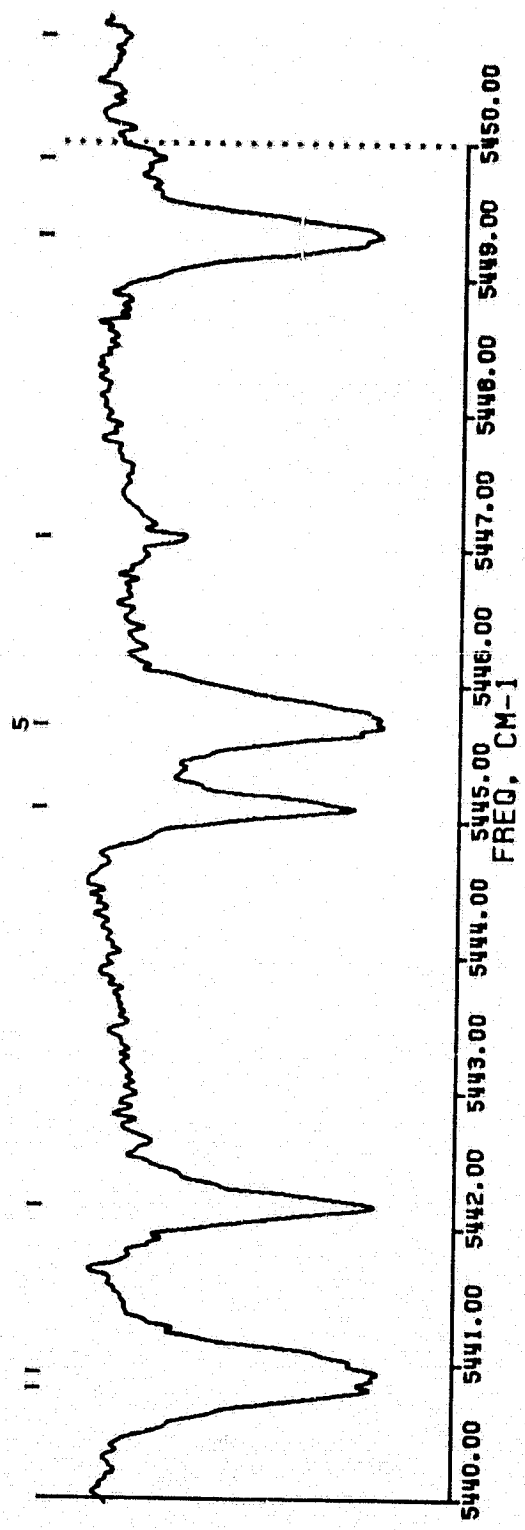


481

5440.808	5440.929	5442.156	5445.093	5445.698	5
5447.089	5449.316	5449.882	5450.785	5451.331	10
5452.269	5454.859	5456.441	5458.046	5460.656	15

482

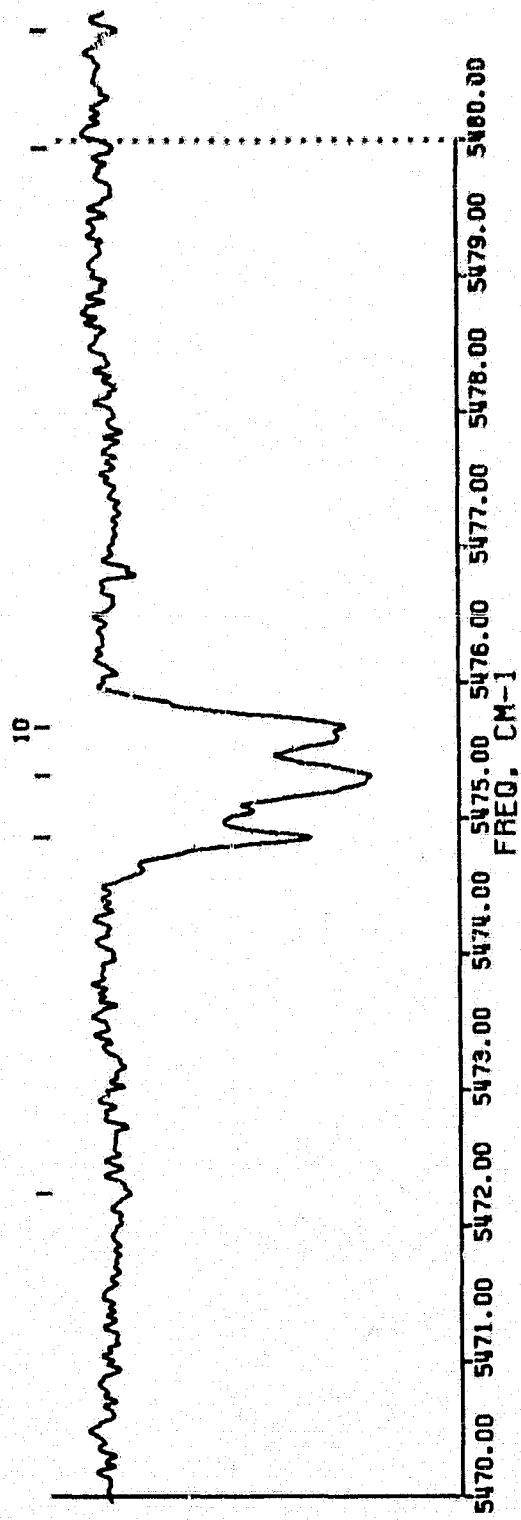
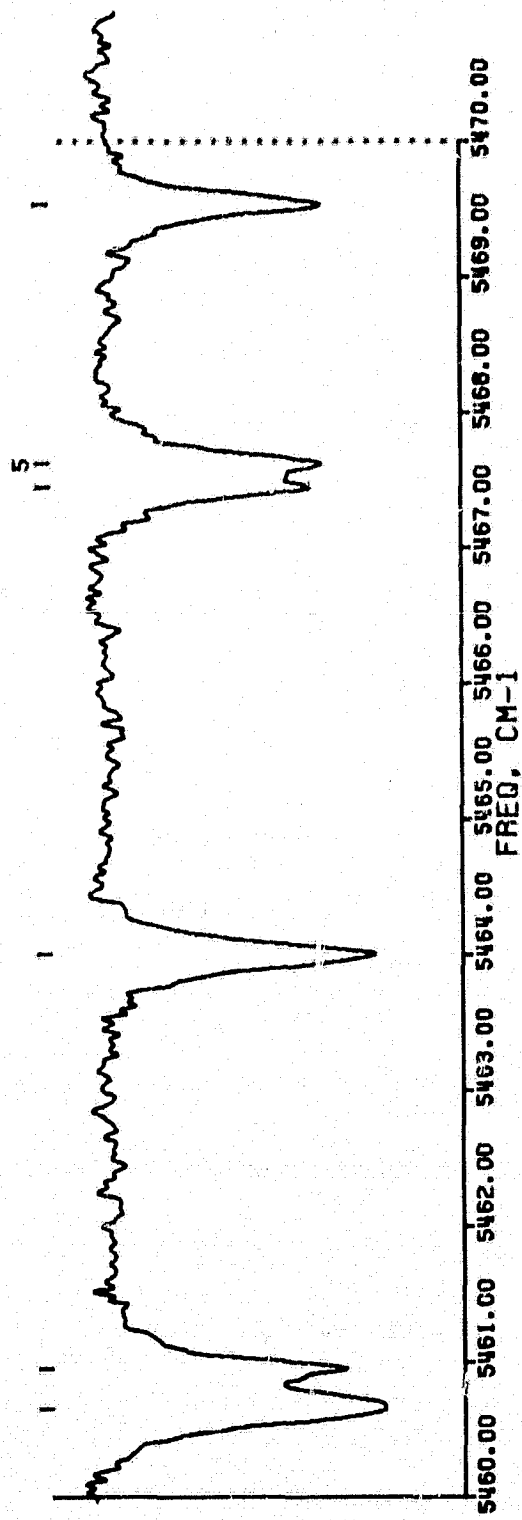
212



483

5460.656	5460.948	5464.003	5467.445	5467.616	5
5469.531	5472.238	5474.859	5475.312	5475.675	10
5479.945	5480.812				15

484

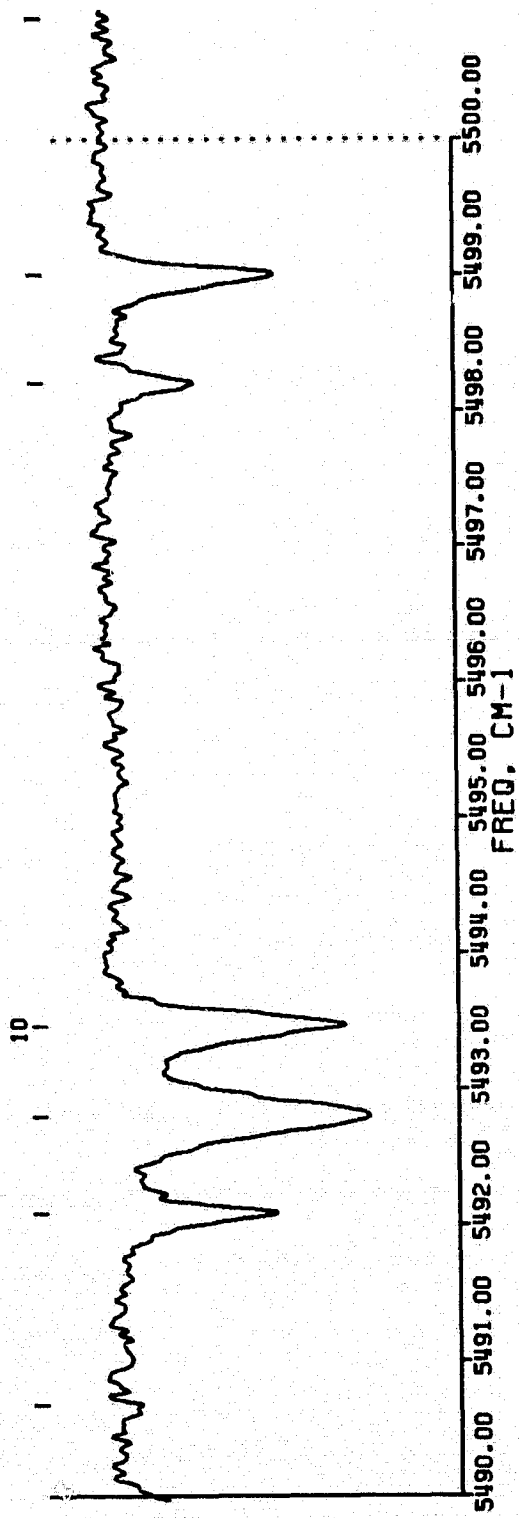
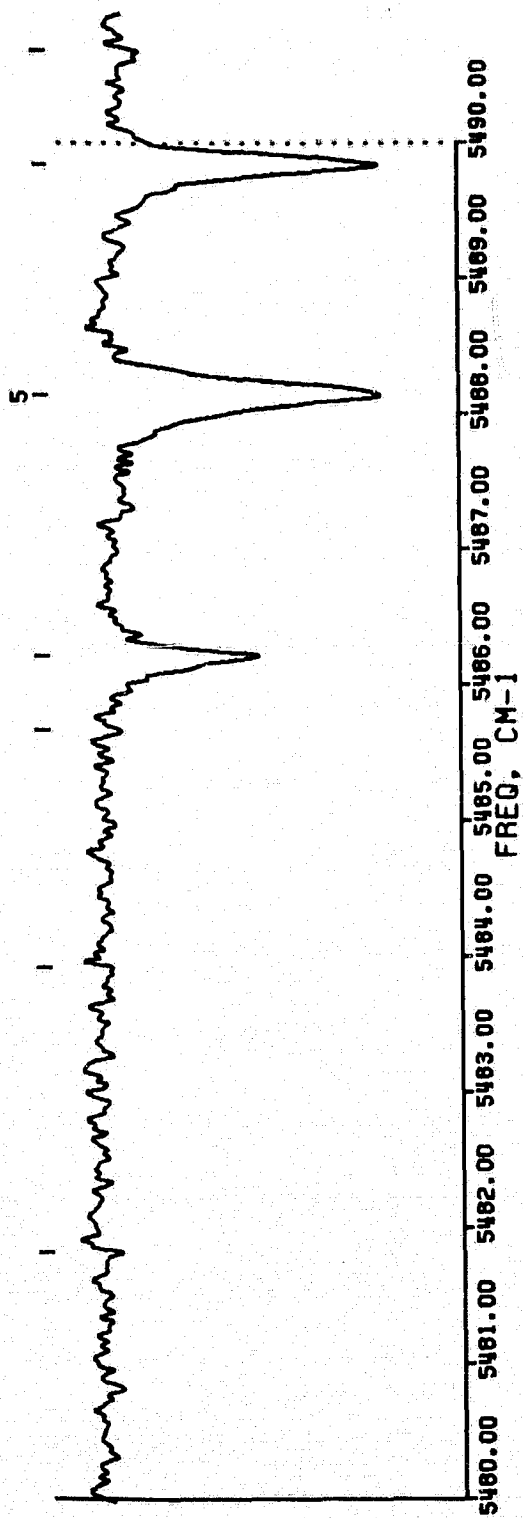


485

5481.816	5483.917	5485.663	5486.214	5488.136	5
5489.835	5490.675	5492.085	5492.800	5493.468	10
5498.206	5499.003	5500.894			15

C-6

484

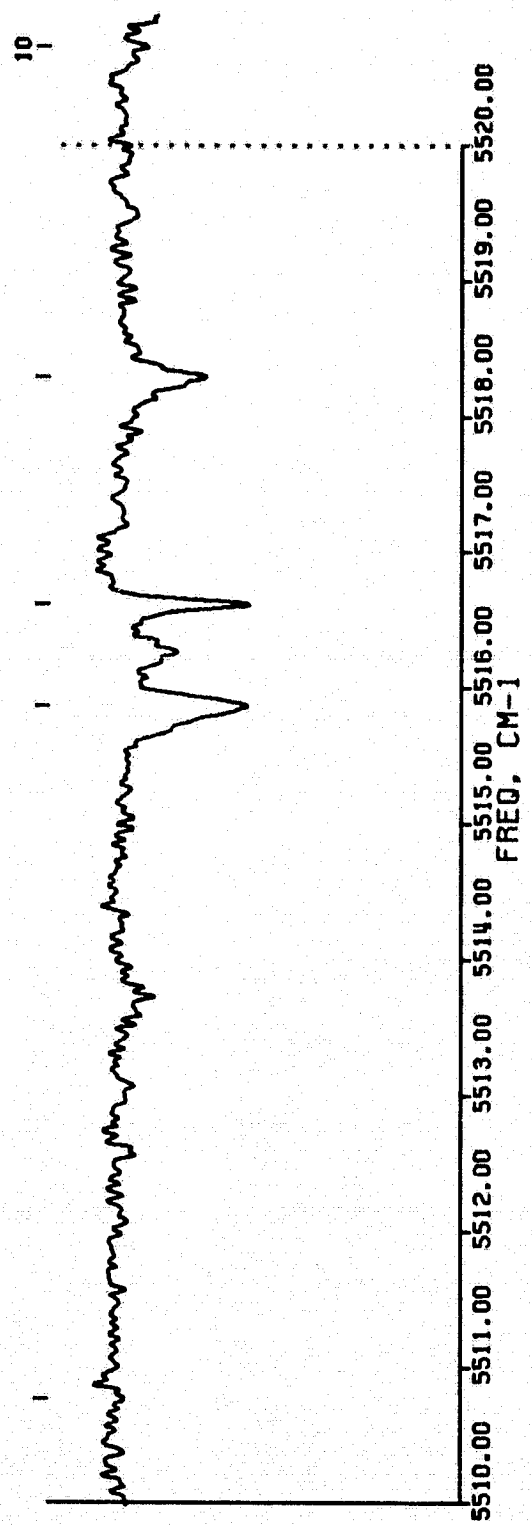
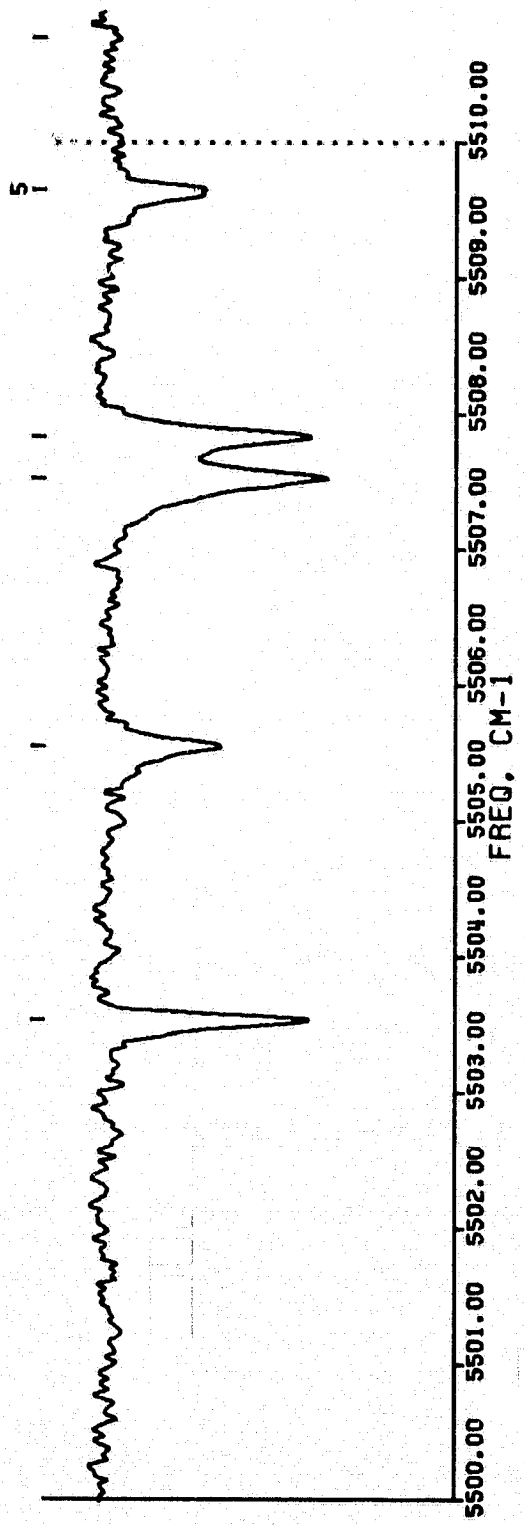


154



5503.531	5505.546	5507.523	5507.828	5509.651	5
5510.765	5515.866	5516.616	5518.292	5520.726	10

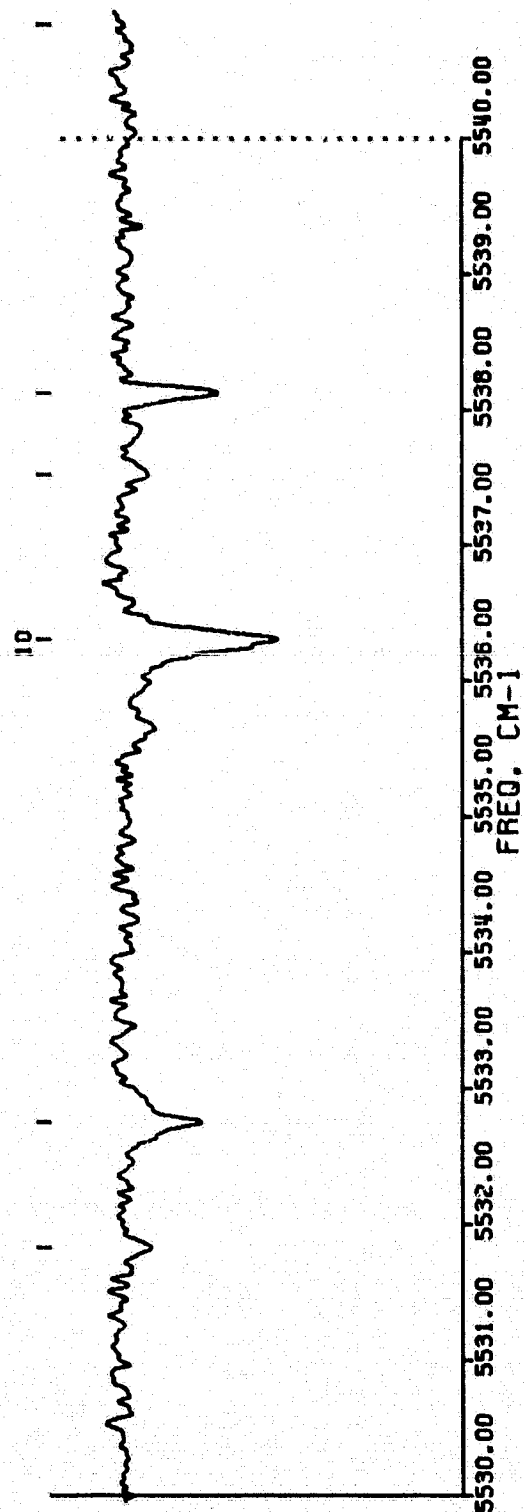
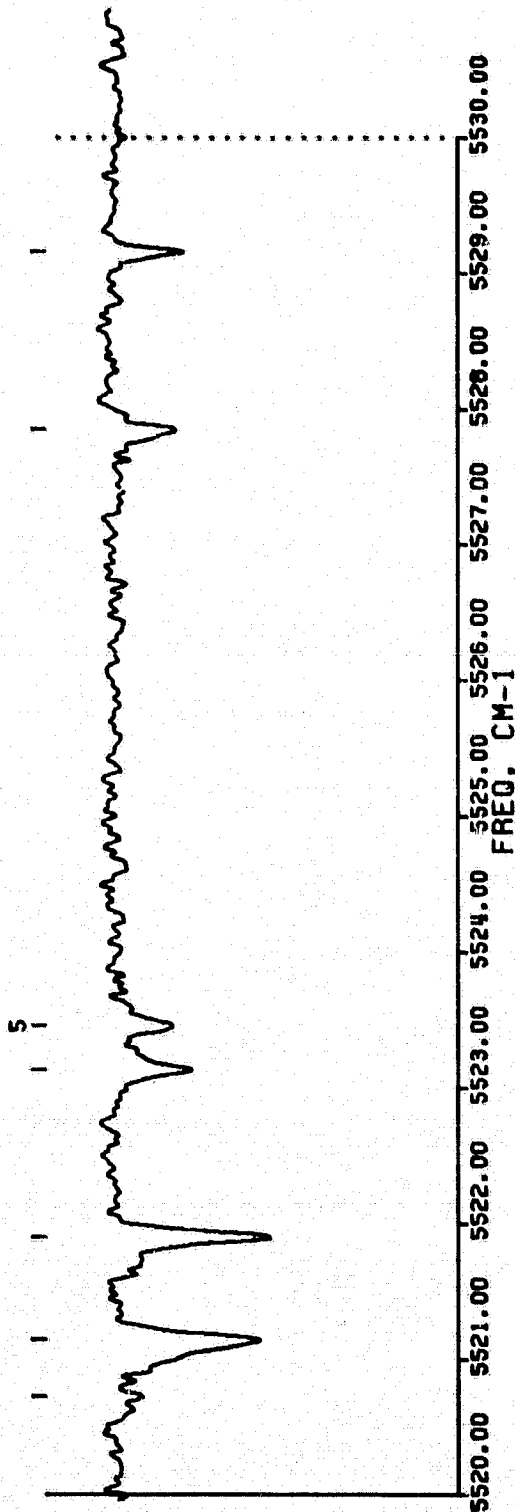
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484

5520.726	5521.140	5521.898	5523.132	5523.456	5
5527.847	5529.156	5531.831	5532.753	5536.308	10
5537.523	5538.125	5540.835			15

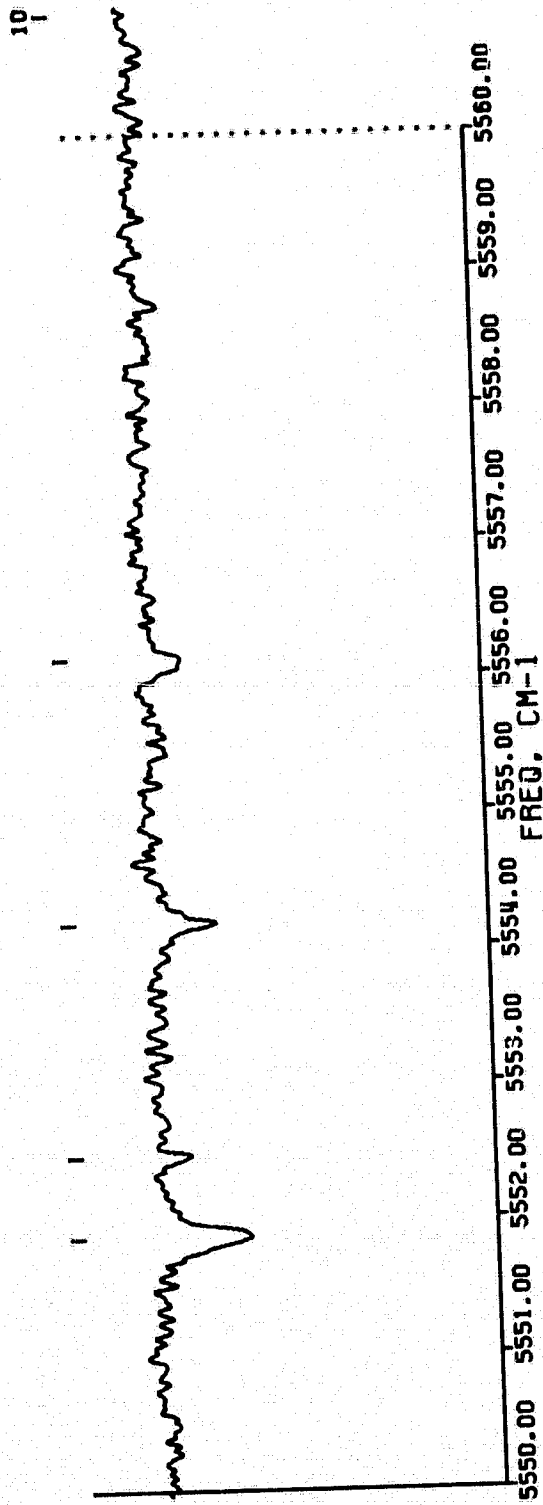
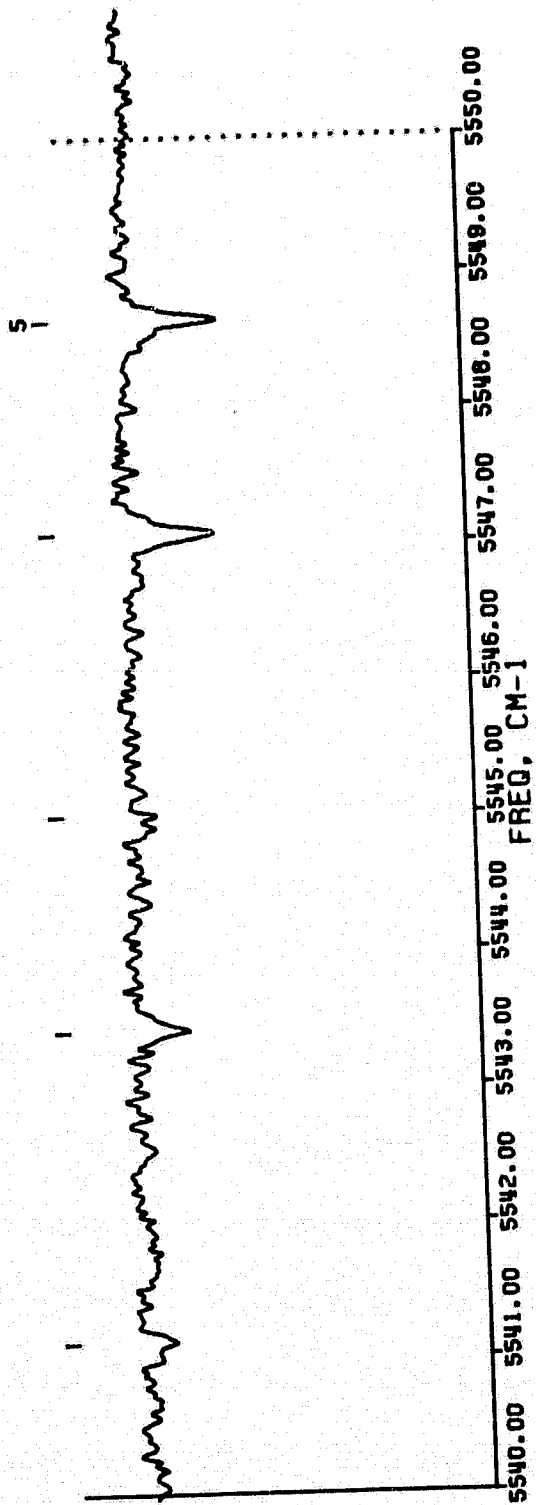
490



161

5541.125	5543.417	5545.007	5547.085	5548.656	5
5551.878	5552.476	5554.191	5556.140	5560.886	10

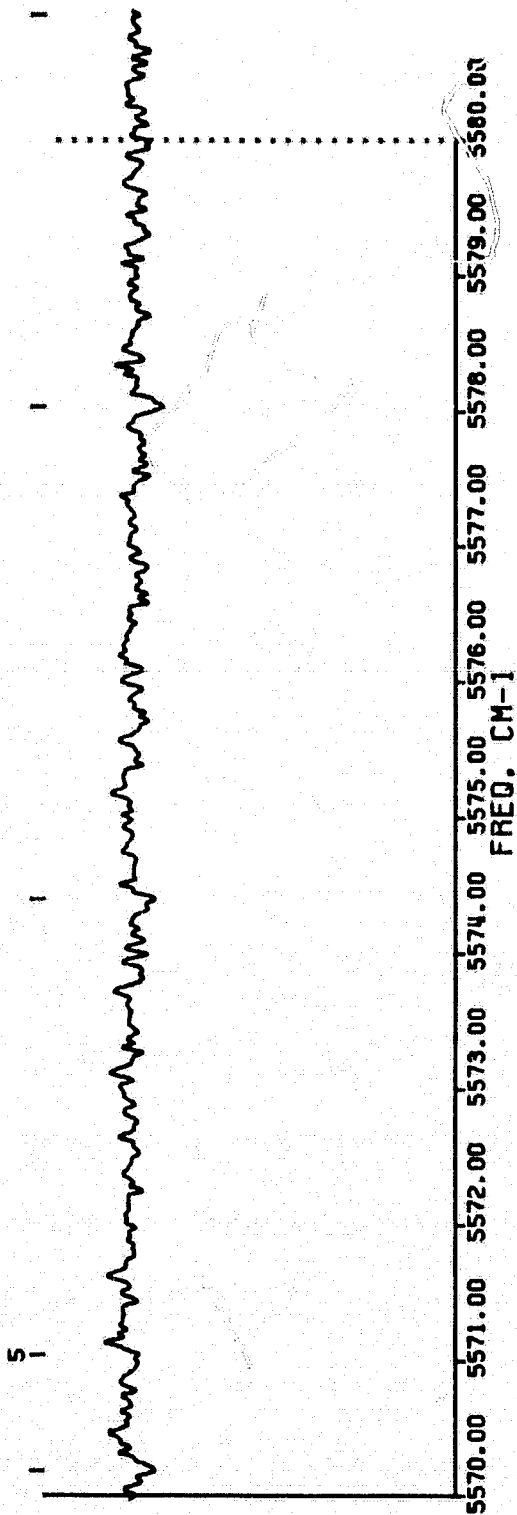
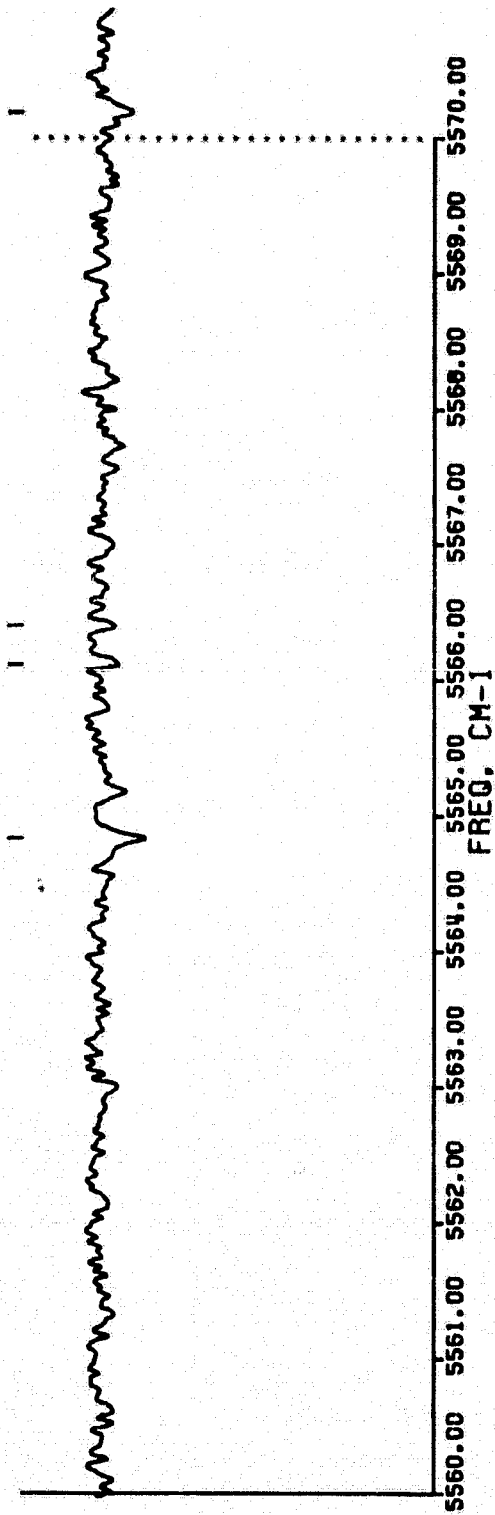
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5564.831 5566.113 5566.398 5570.187 5571.038 5  
5574.401 5578.035 5580.921 10

10/1



5195-



5583.823  
5599.000

5589.542  
5599.425

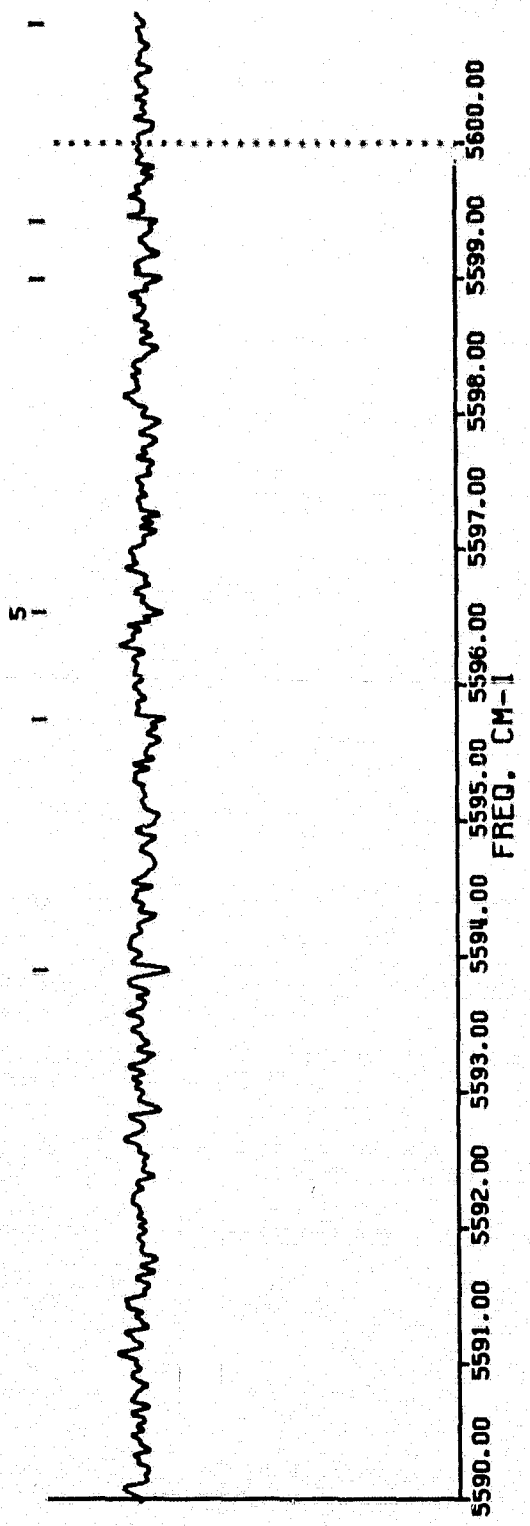
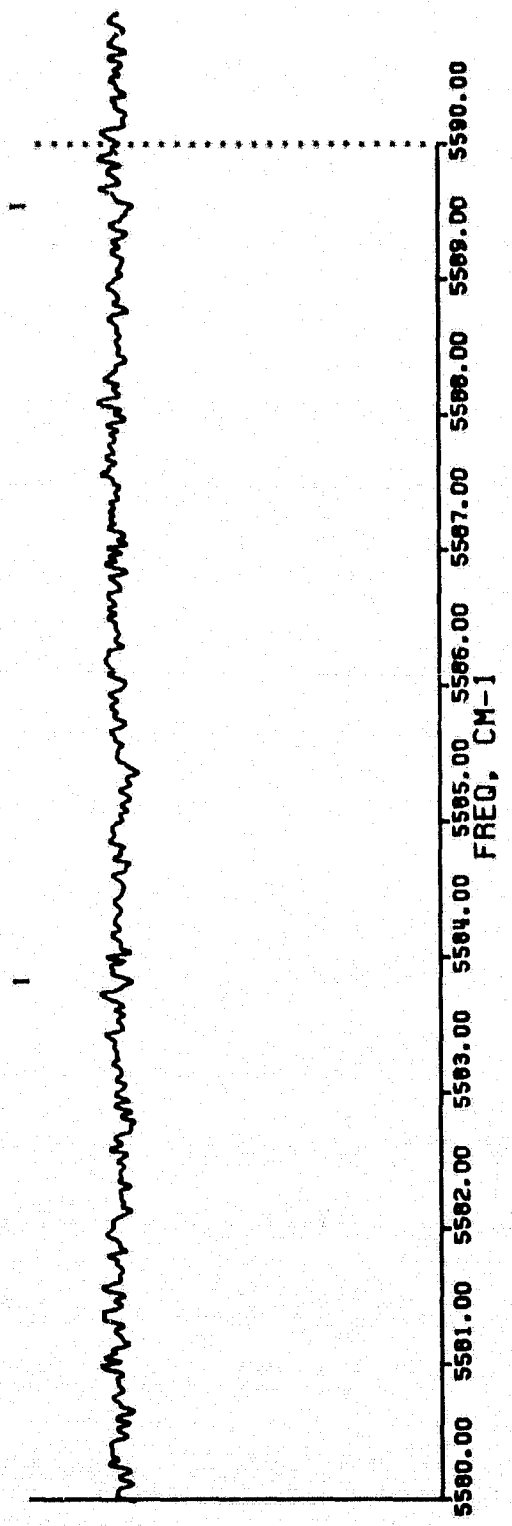
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5600.882

5595.750

5596.538

5  
10

496



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