FIG.1

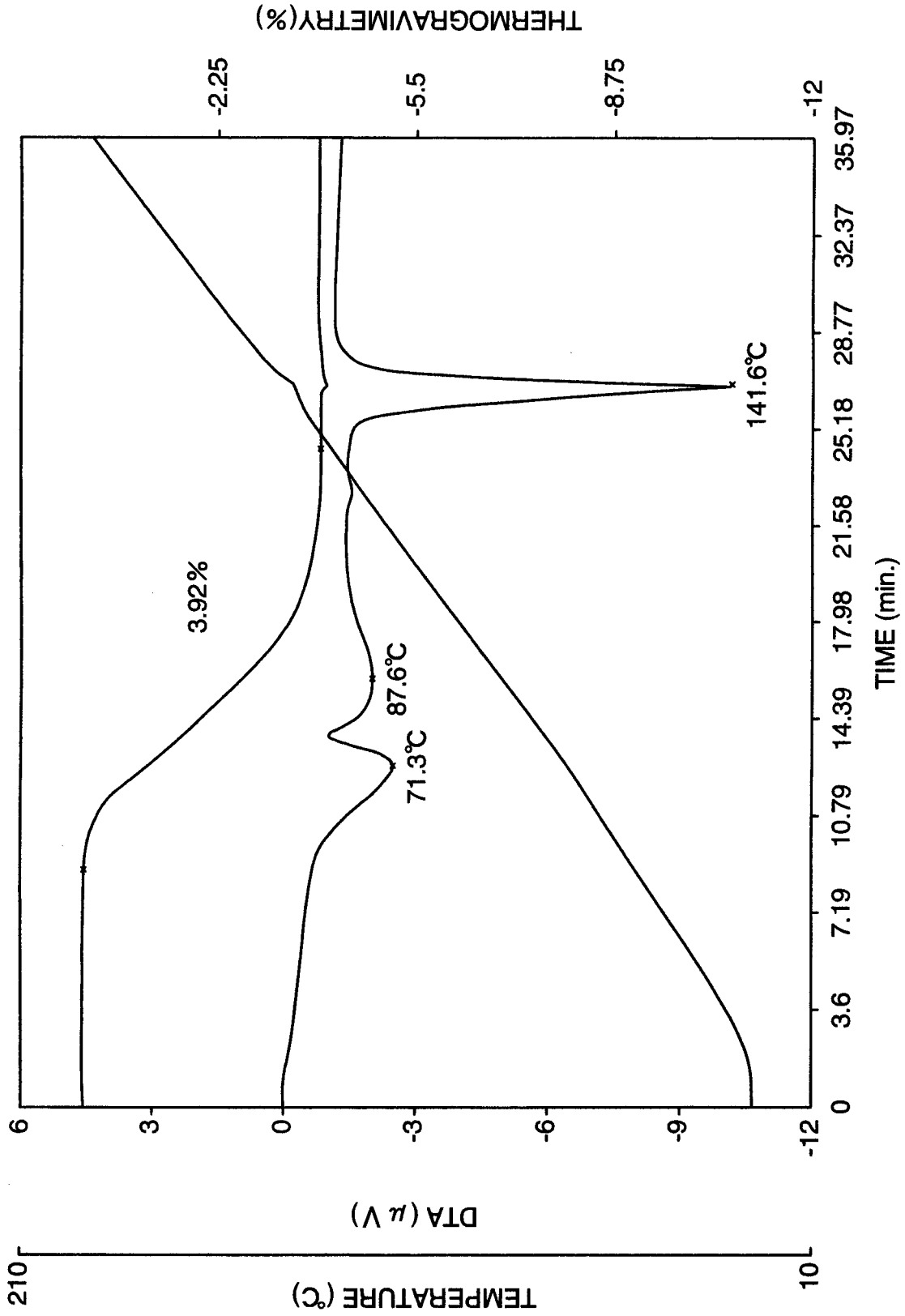

THERMOGRAVIMETRY(%)
-2.25
-5.5
-8.75
-12
35.97
32.37
28.77
25.18
21.58
17.98
14.39
10.79
7.19
3.6
0
TIME (min.)
141.6℃
87.6℃
71.3℃
3.92%
6
3
0
-3
-6
-9
-12
DTA (μV)
210
10
TEMPERATURE (℃)

FIG.2

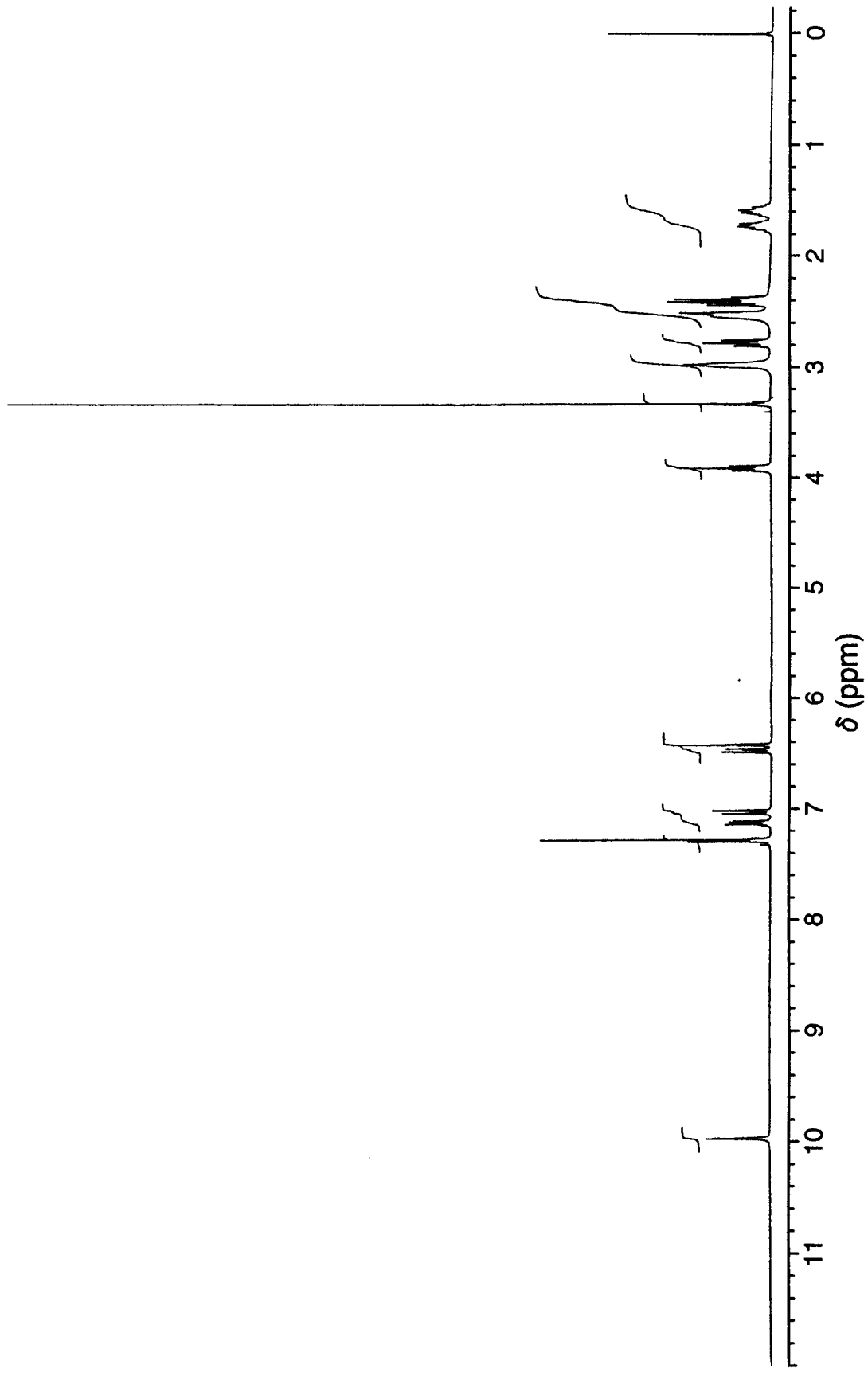


FIG.3

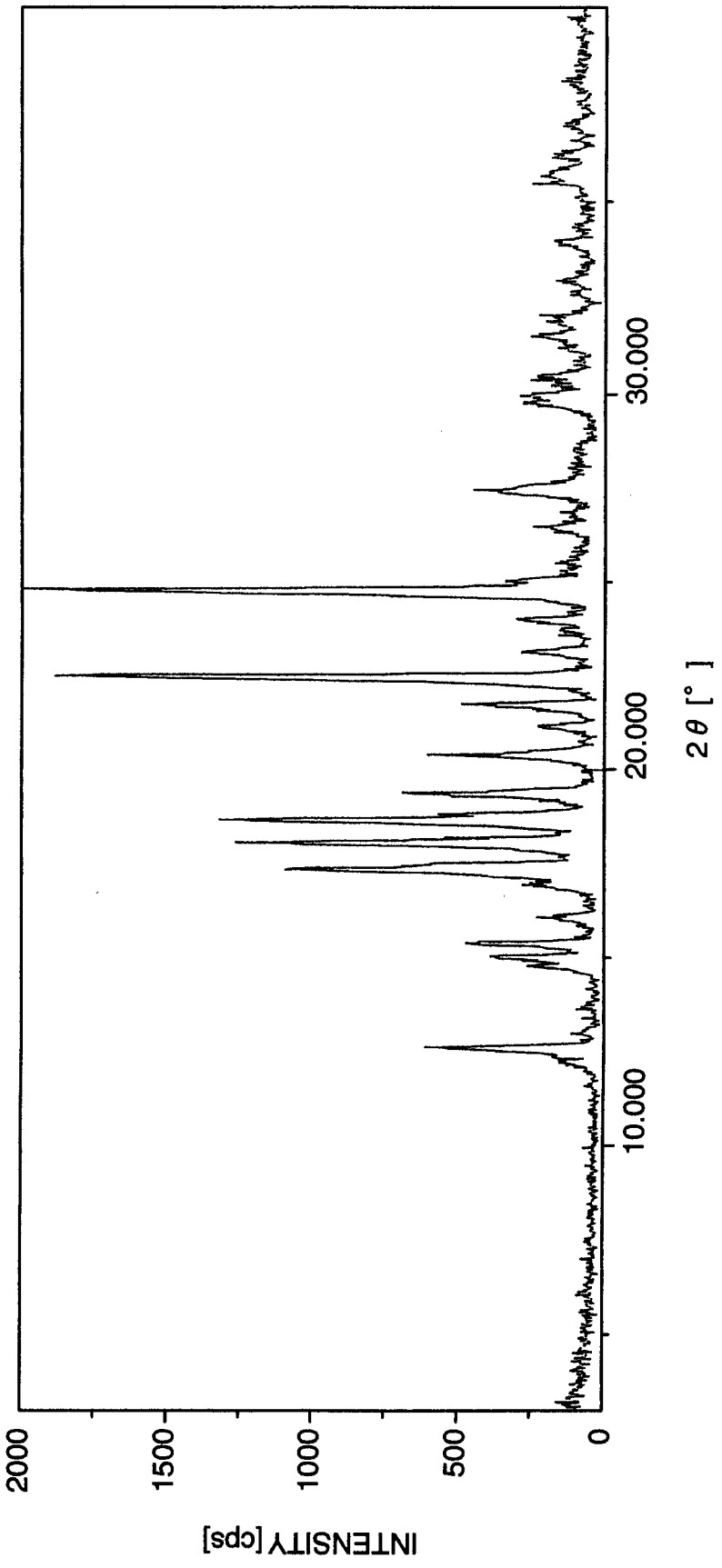


FIG.4

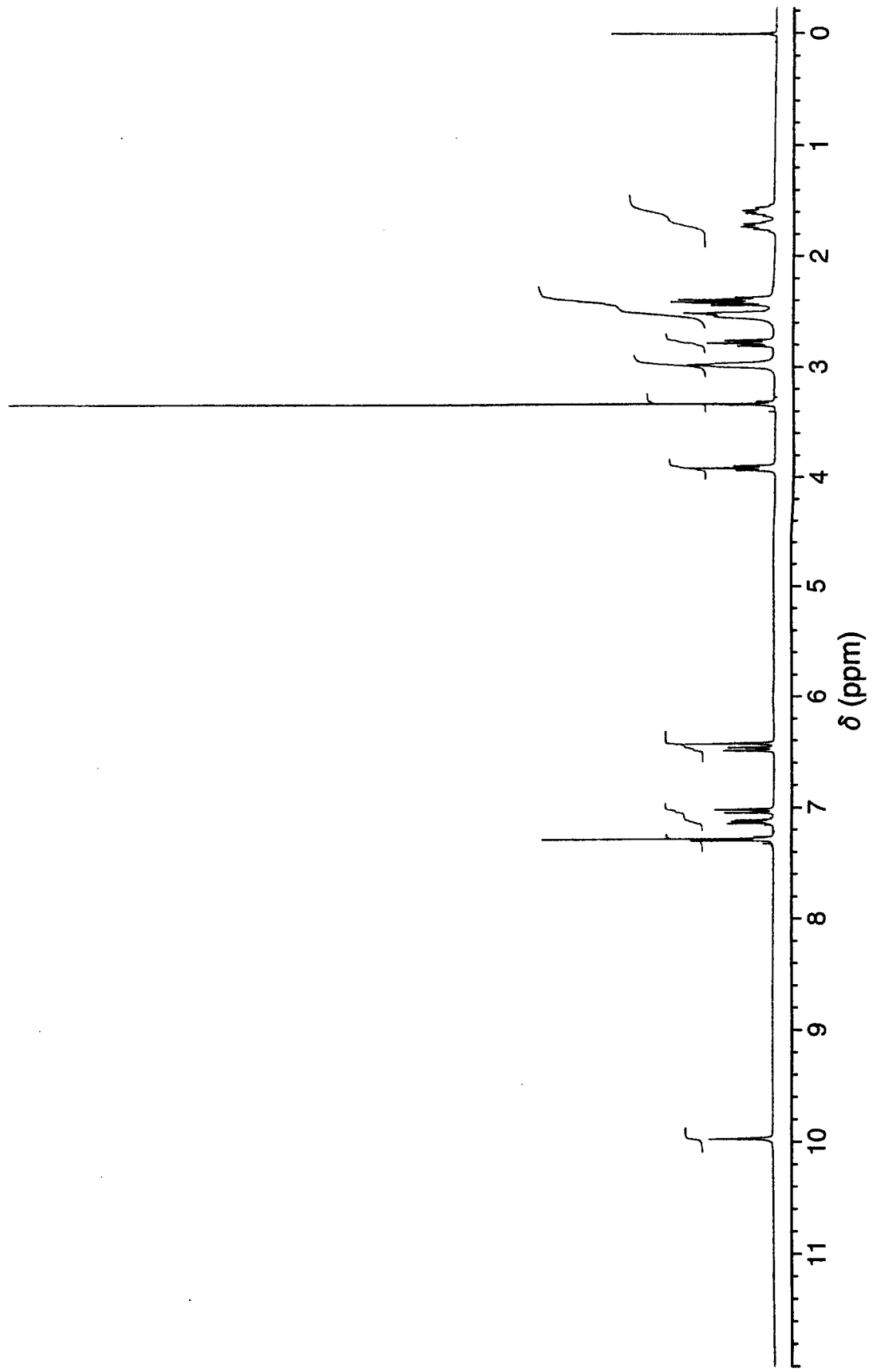


FIG.5

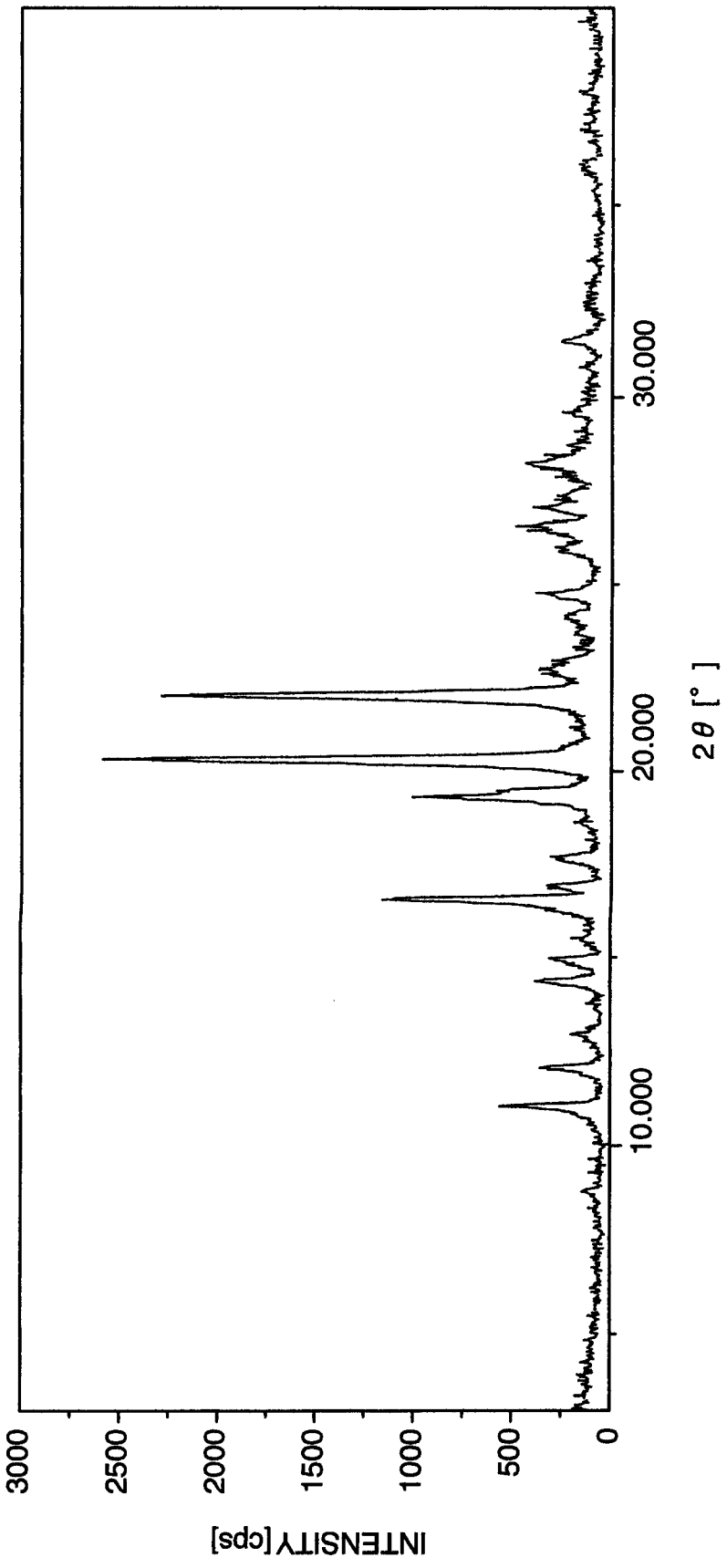

INTENSITY [cps]
3000
2500
2000
1500
1000
500
0
10.000
20.000
30.000
2θ [°]

FIG.6

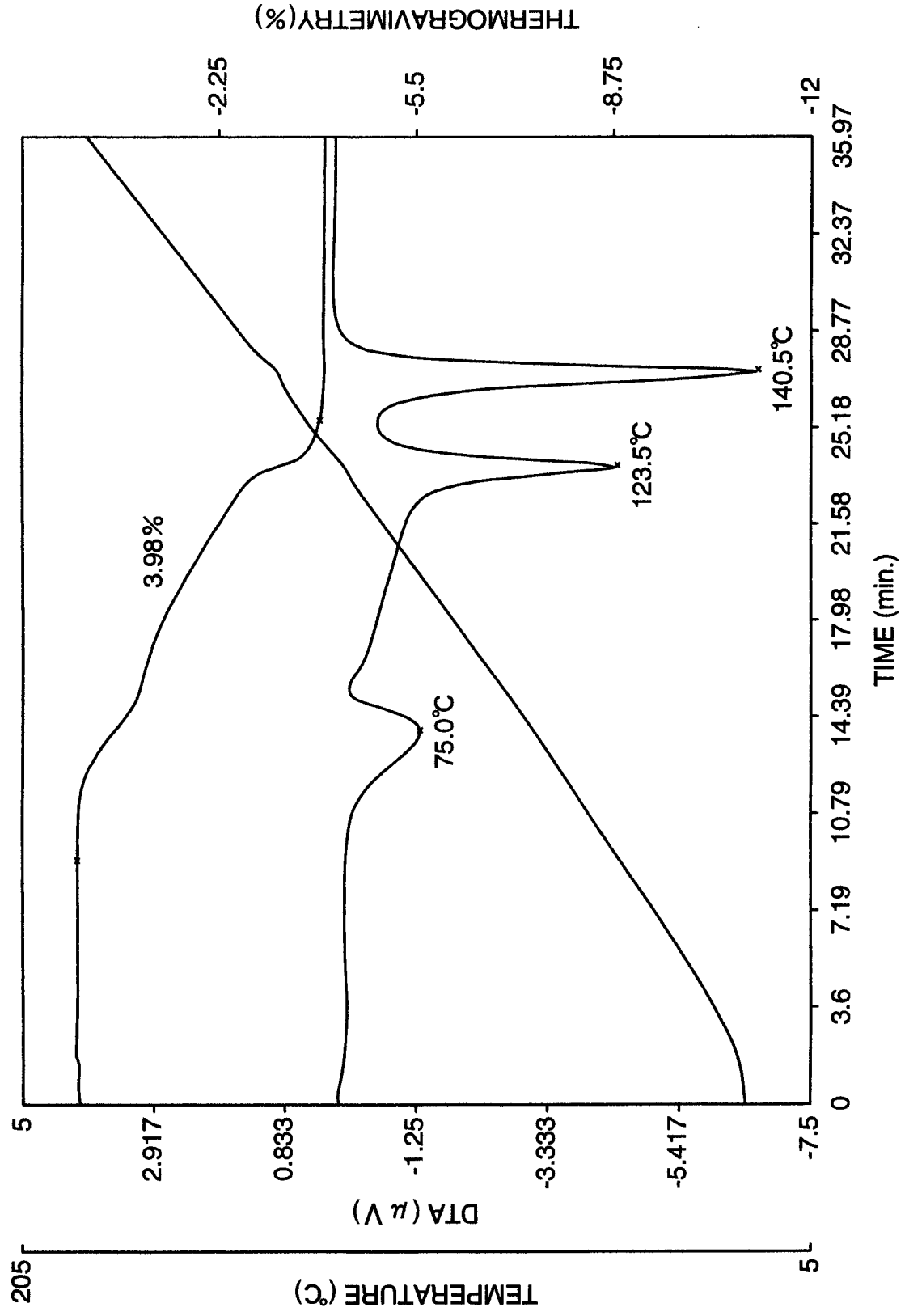

THERMOGRAVIMETRY(%)
-2.25
-5.5
-8.75
-12
35.97
32.37
28.77
25.18
21.58
17.98
14.39
10.79
7.19
3.6
0
TIME (min.)
140.5℃
123.5℃
75.0℃
3.98%
5
2.917
0.833
-1.25
-3.333
-5.417
-7.5
DTA (μV)
205
5
TEMPERATURE (℃)

FIG.7

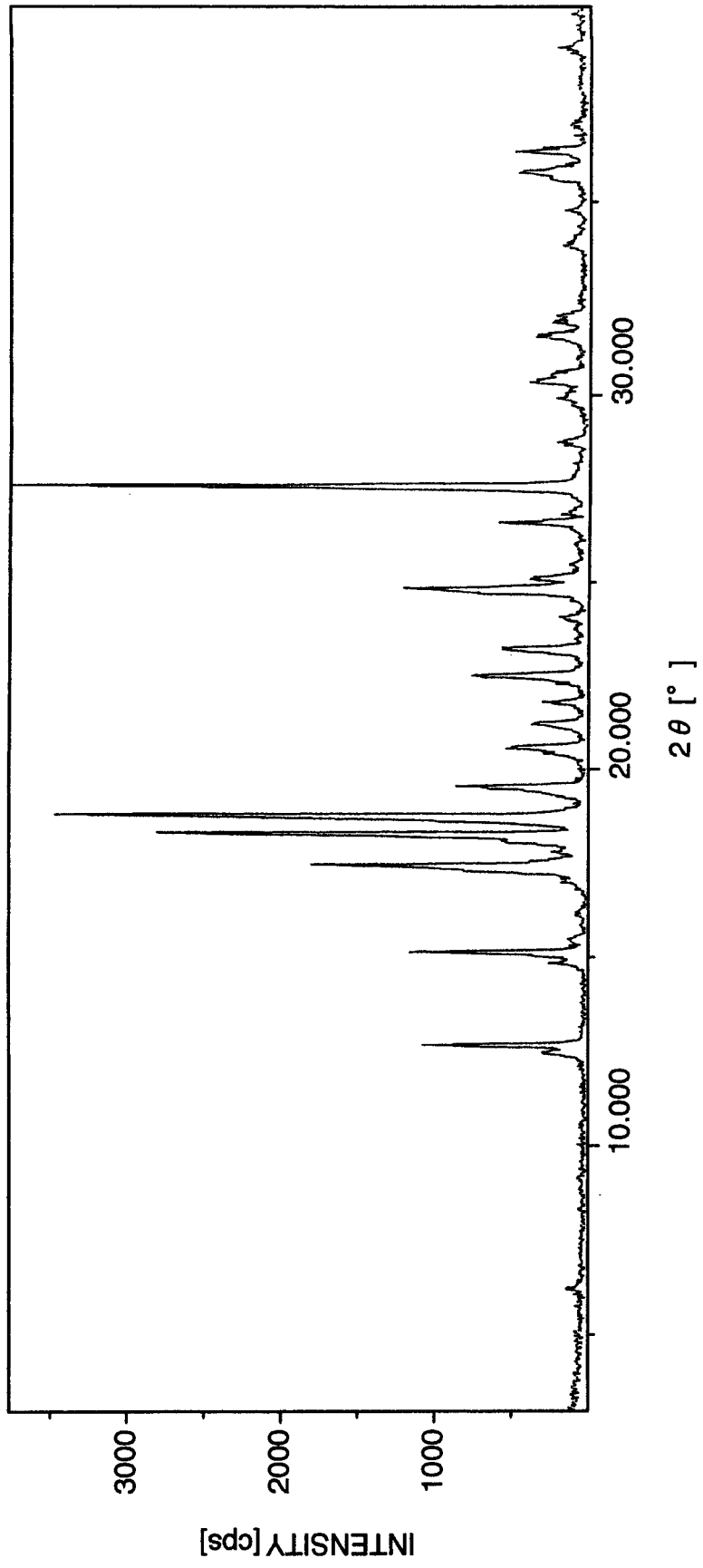


FIG.8

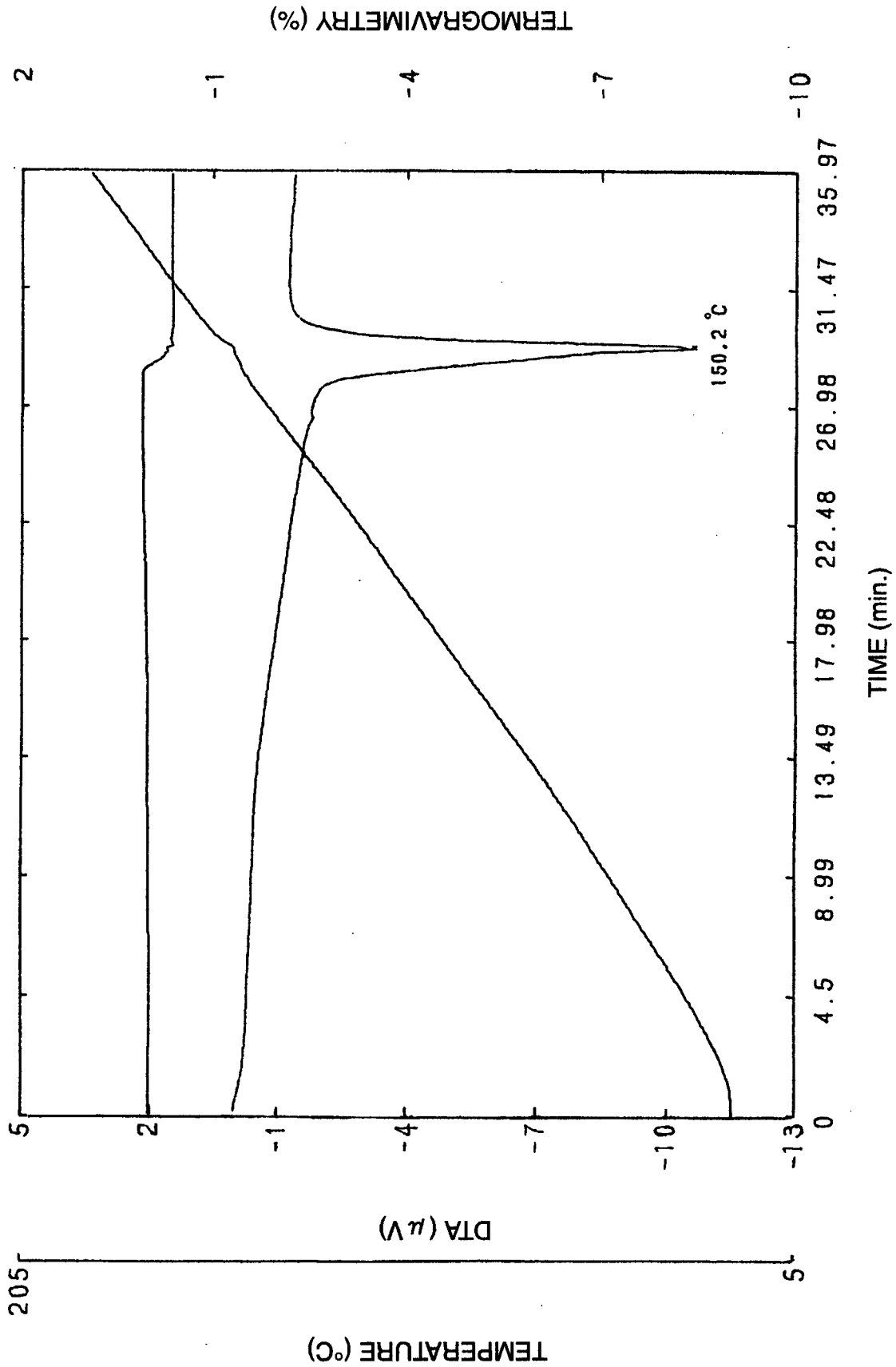

TEMPERATURE (°C)
205
5
DTA (μV)
5
2
-1
-4
-7
-10
-13
TERMOGRAVIMETRY (%)
2
-1
-4
-7
-10
0
4.5
8.99
13.49
17.98
22.48
26.98
31.47
35.97
TIME (min.)
150.2 °C

FIG.9

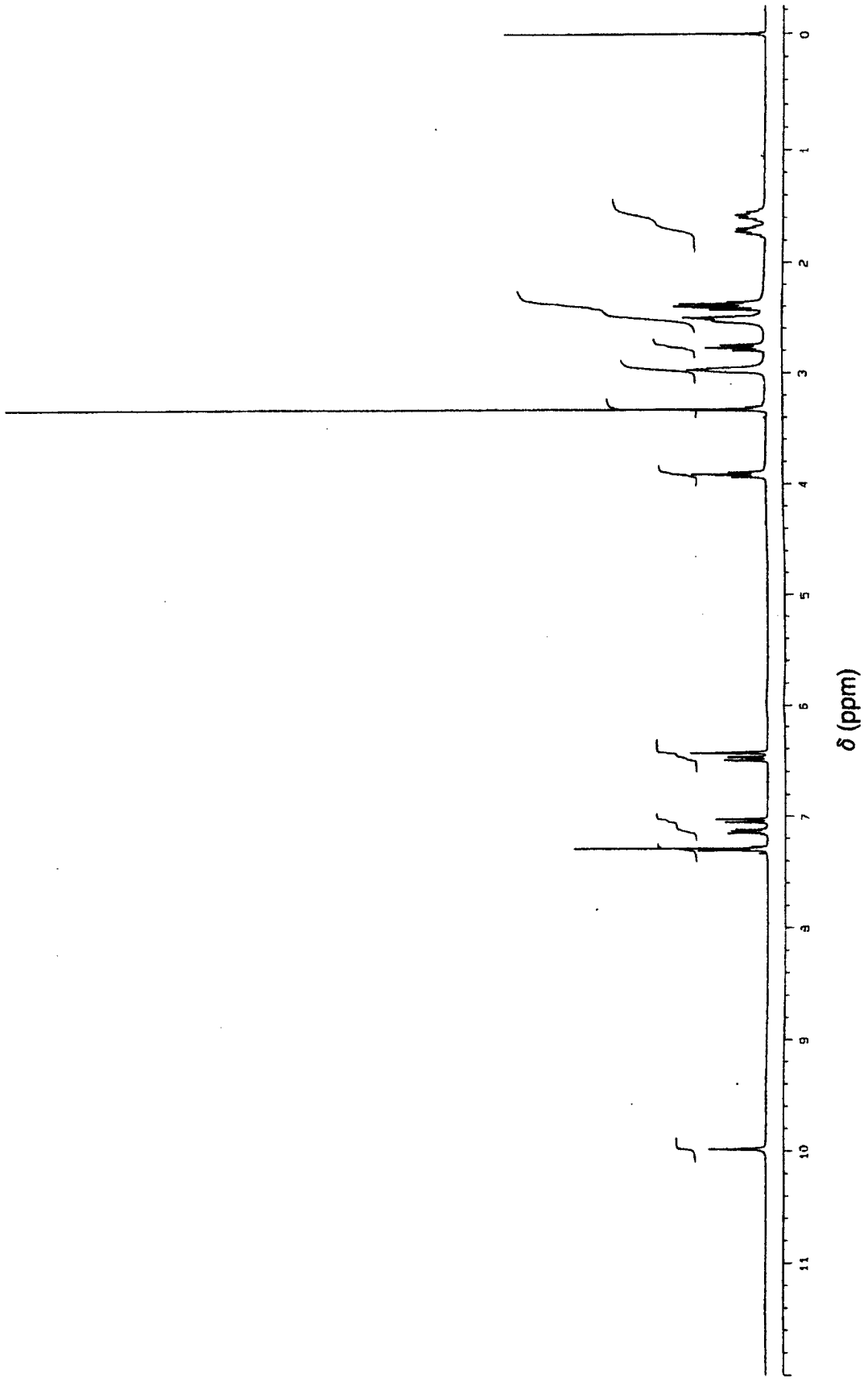


FIG.10

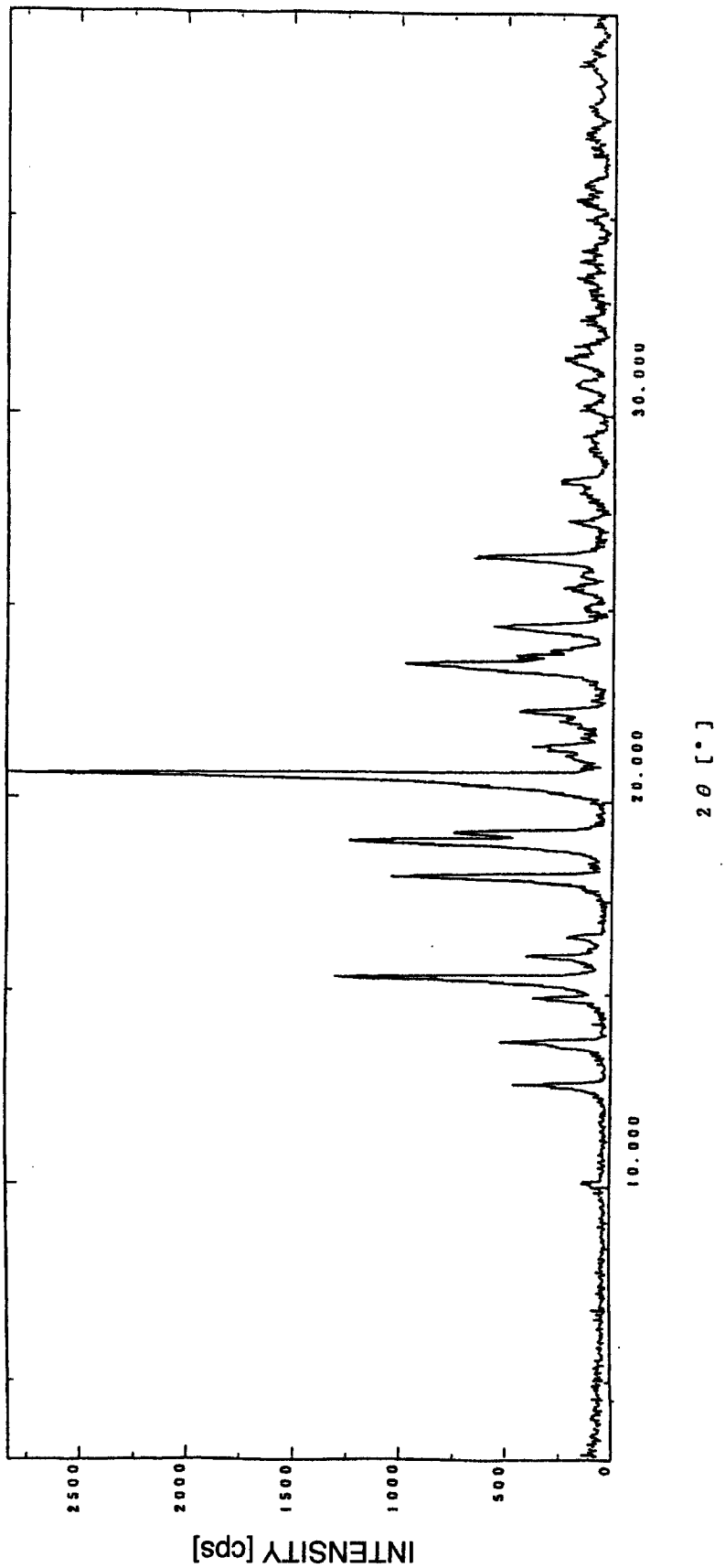


FIG.11

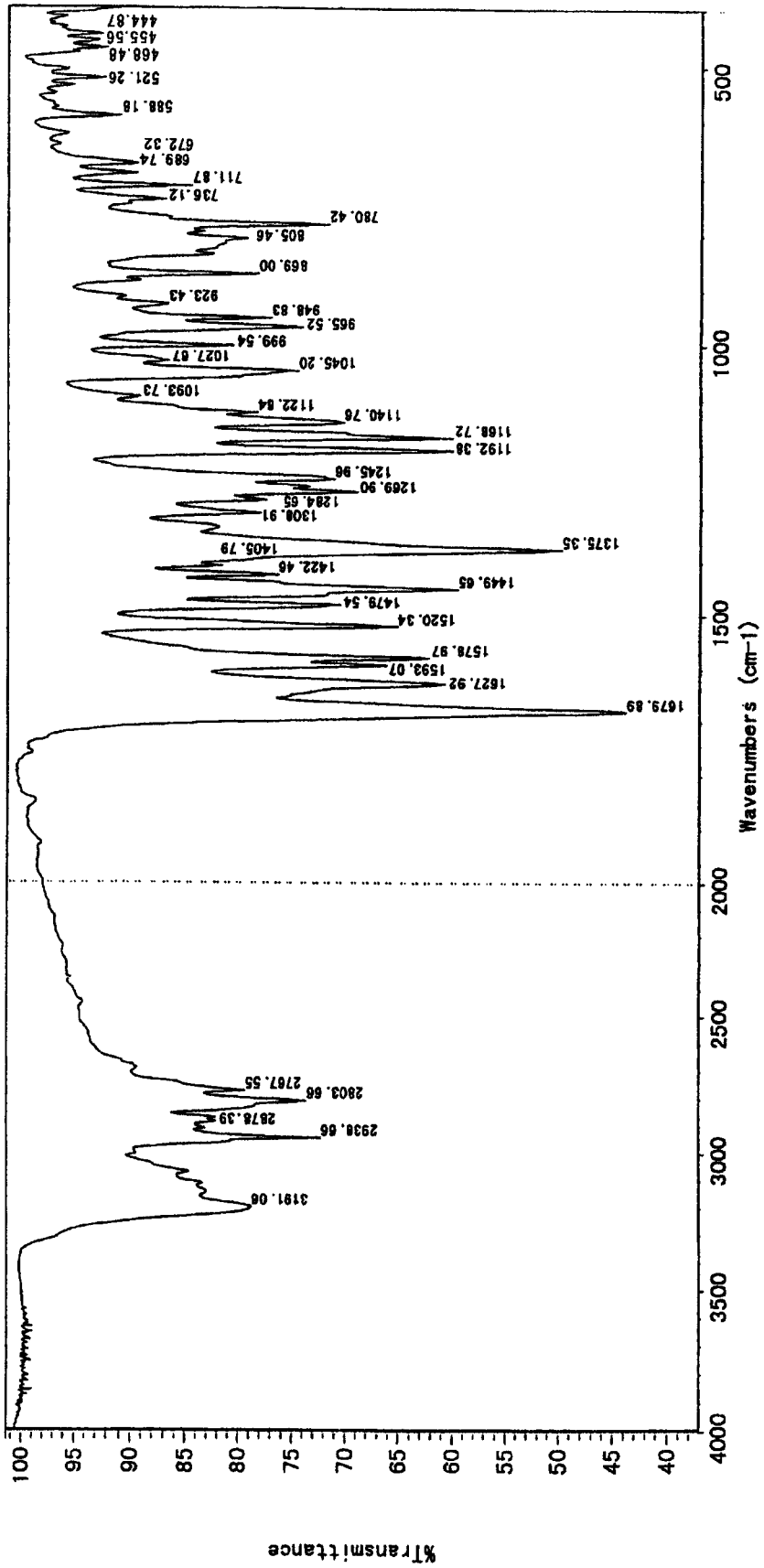

%Transmittance
100
95
90
85
80
75
70
65
60
55
50
45
40
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers (cm-1)
3191.06
2938.66
2678.39
2803.66
2767.55
1679.89
1627.92
1593.07
1578.97
1520.34
1478.54
1449.65
1422.46
1405.79
1375.35
1308.91
1284.65
1269.90
1245.96
1192.38
1168.72
1140.76
1122.84
1093.73
1045.20
1027.67
999.54
965.52
948.83
923.43
869.00
805.46
780.42
736.12
711.87
689.74
672.32
588.18
521.26
468.48
455.56
444.87

FIG.12

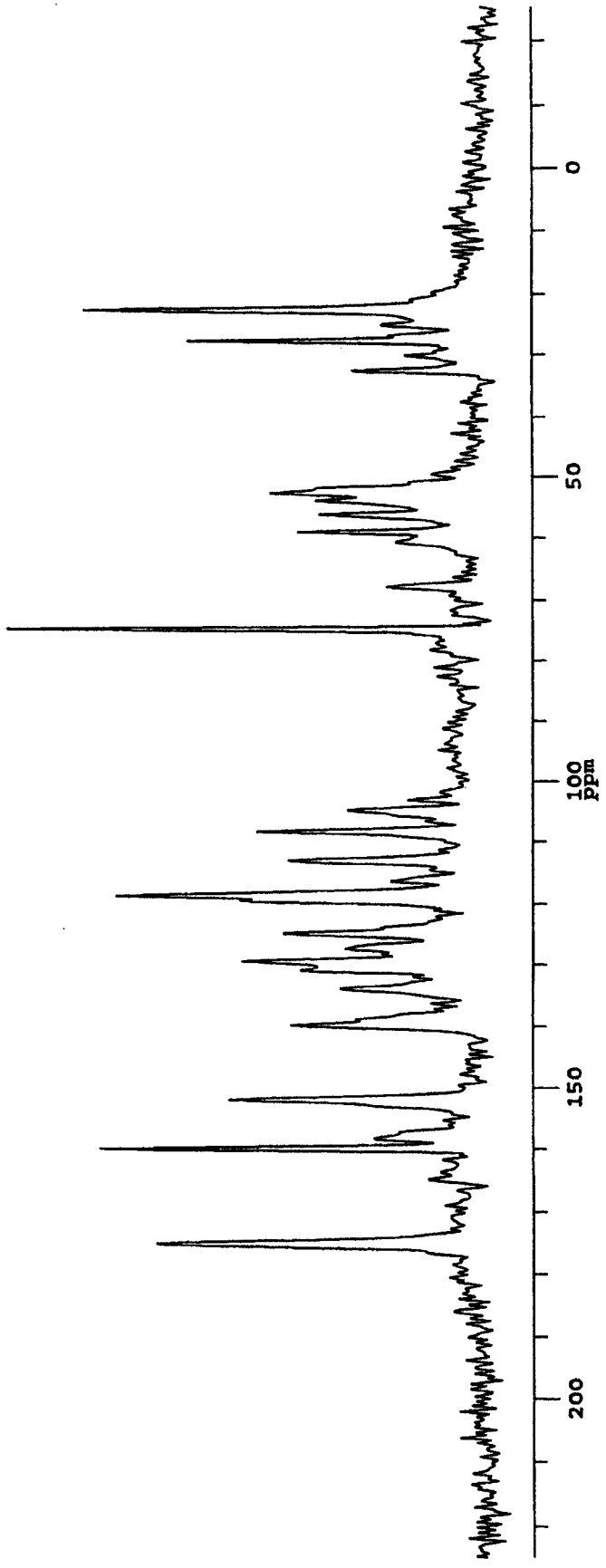


FIG.13

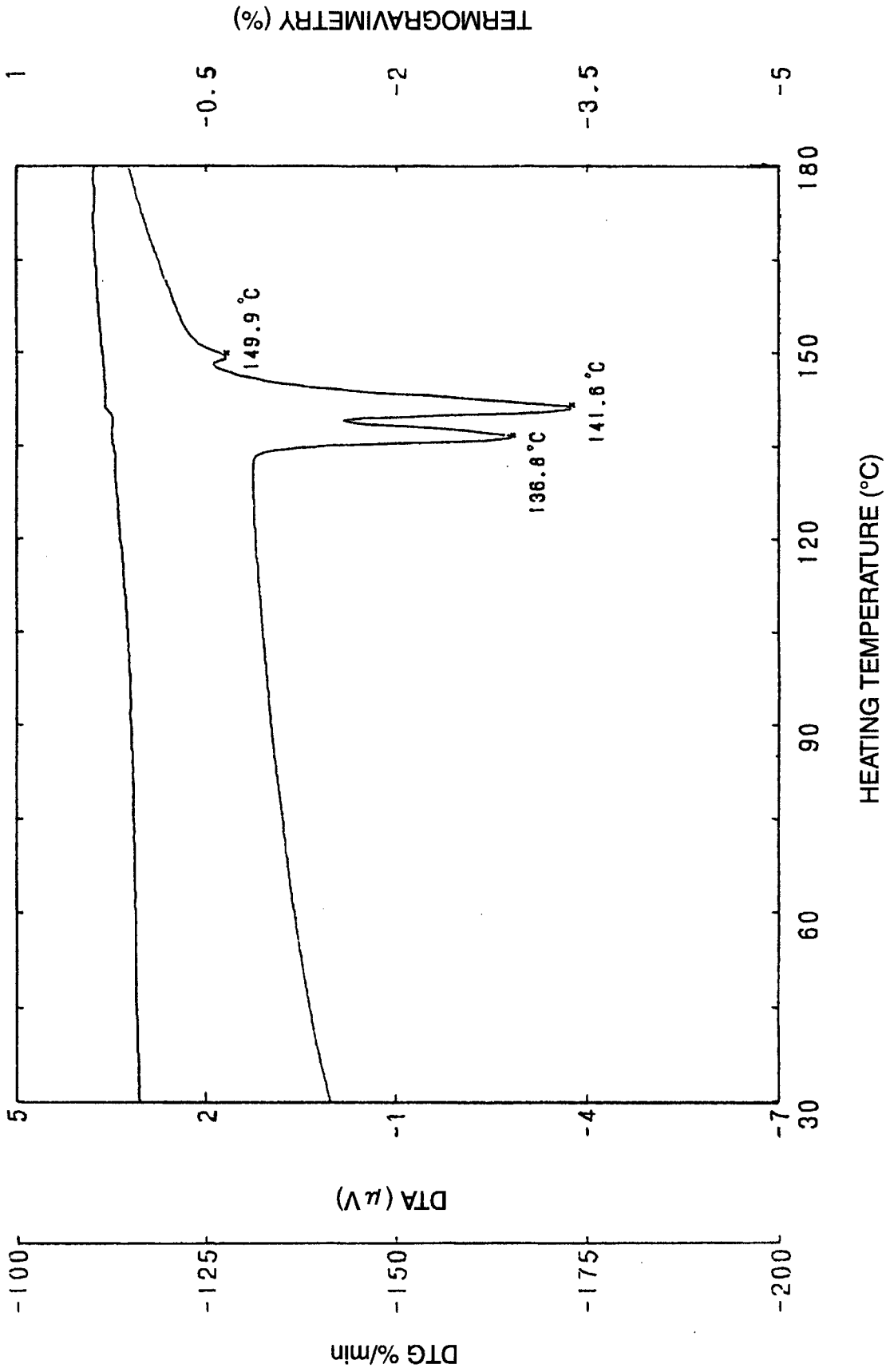

TERMOGRAVIMETRY (%)
1
-0.5
-2
-3.5
-5
149.9°C
141.6°C
136.8°C
180
150
120
90
60
30
HEATING TEMPERATURE (°C)
5
2
-1
-4
-7
DTA (μV)
-100
-125
-150
-175
-200
DTG %/min

FIG.14

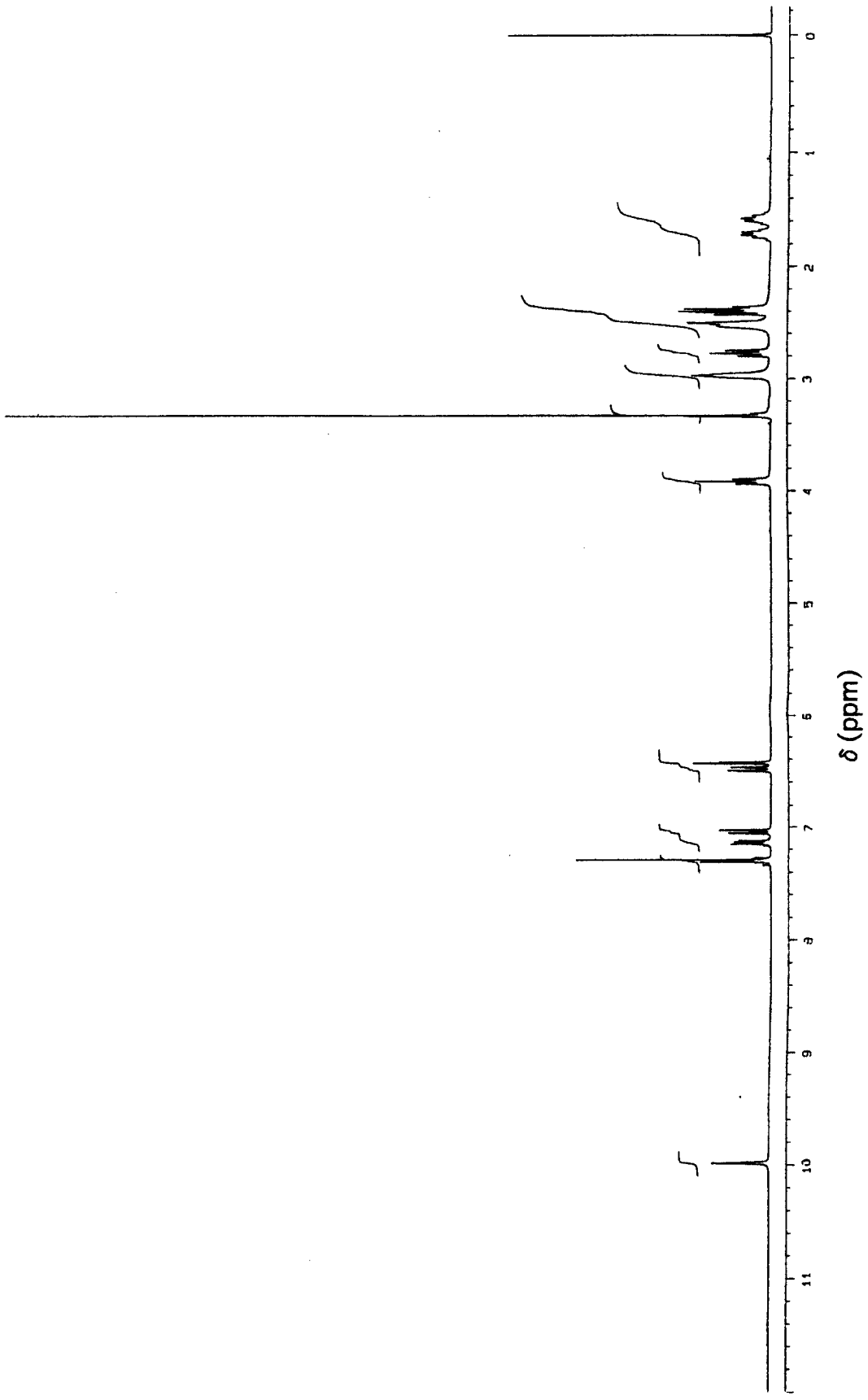


FIG.15

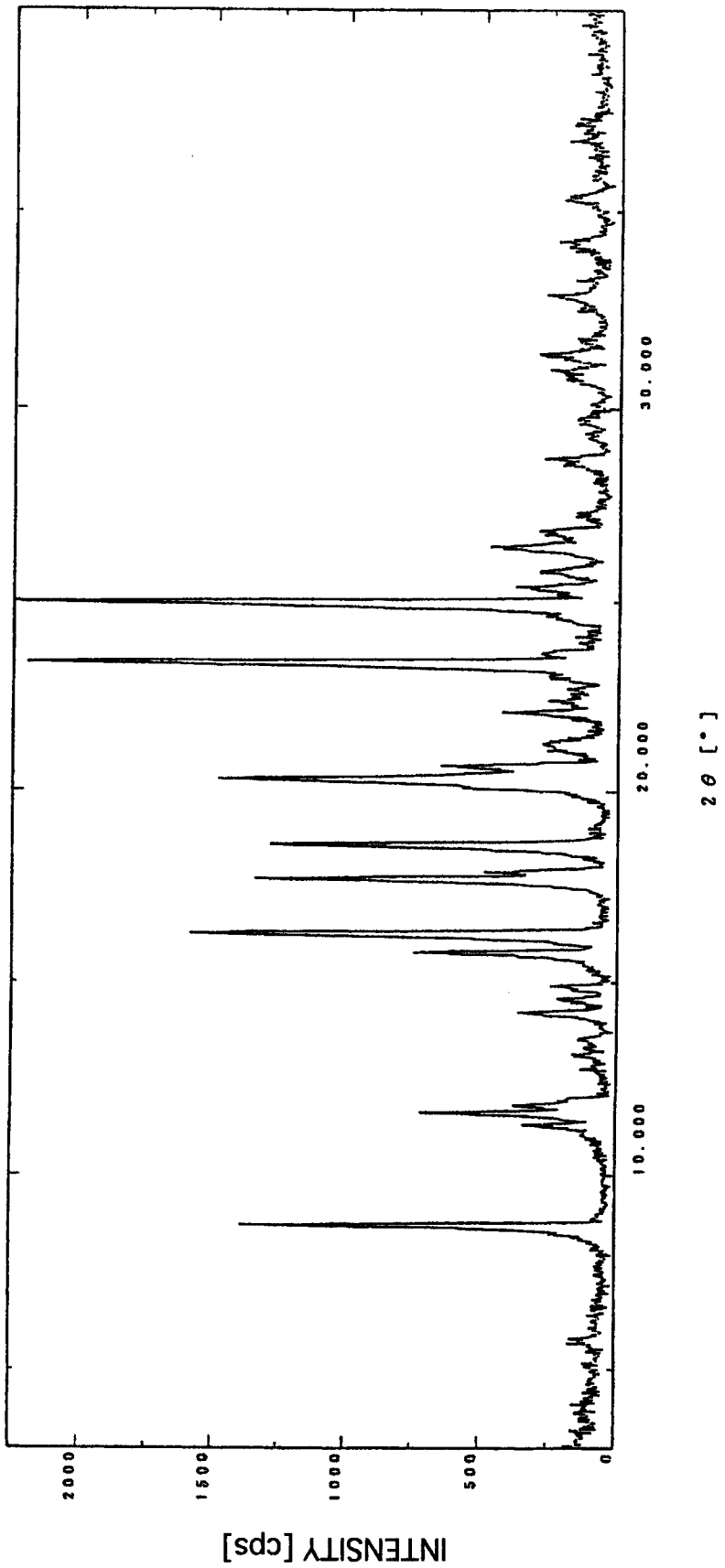


FIG.16

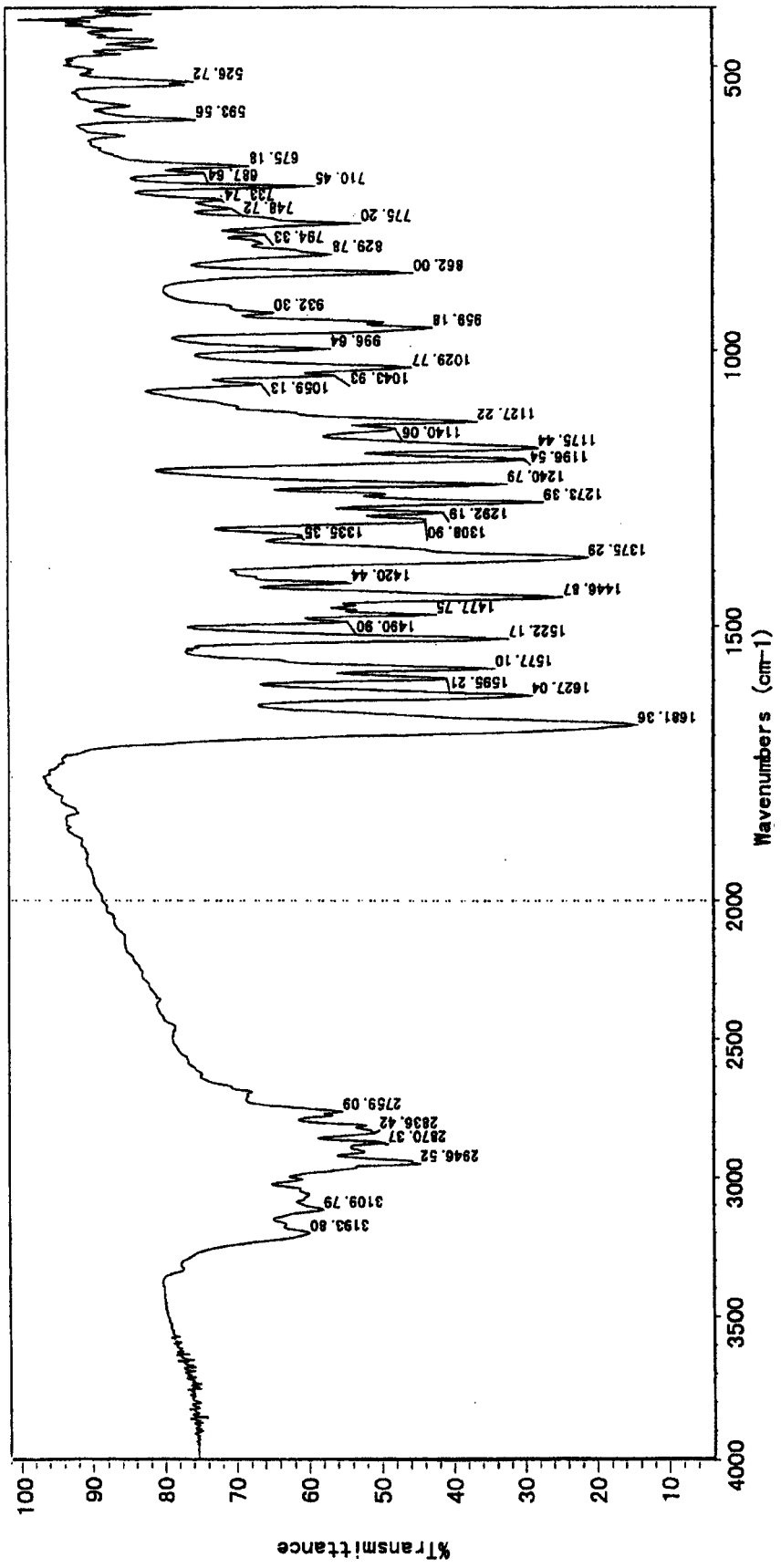

%Transmittance
100
90
80
70
60
50
40
30
20
10
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers (cm-1)
3193.80
3109.79
2946.52
2870.37
2836.42
2759.09
1681.36
1627.04
1595.21
1577.10
1522.17
1490.90
1477.75
1446.87
1420.44
1375.29
1335.38
1308.90
1292.18
1273.39
1240.79
1196.54
1175.44
1140.06
1127.22
1059.13
1043.93
1029.77
996.64
958.18
932.30
862.00
829.78
794.33
775.20
748.72
733.74
710.45
687.64
675.18
583.56
526.72

FIG.17

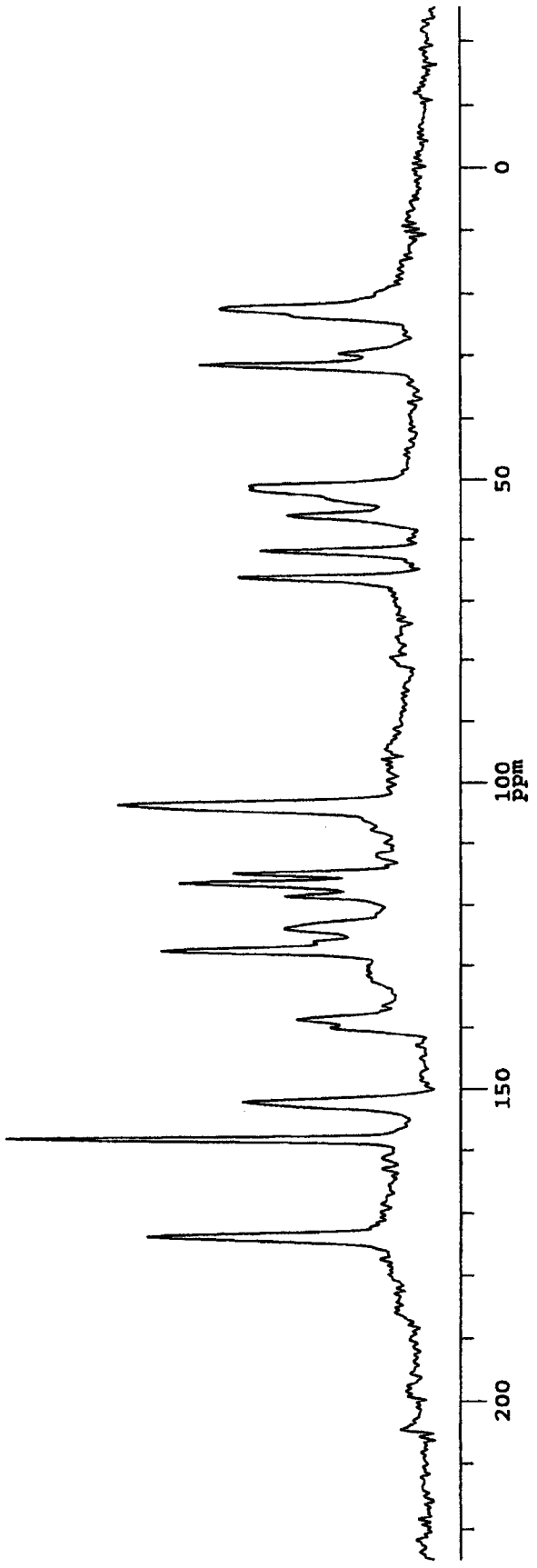


FIG.18

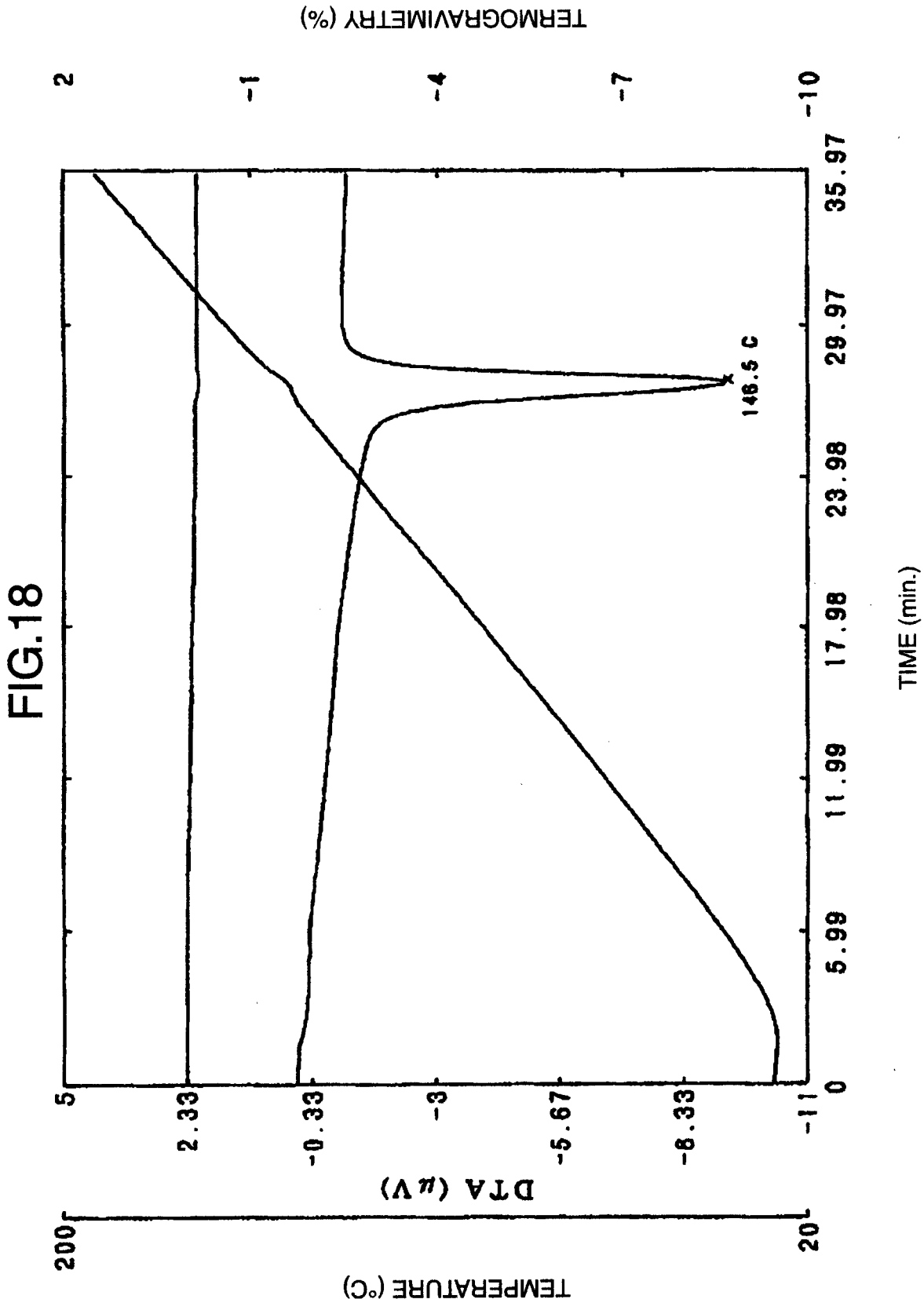

TERMOGRAVIMETRY (%)
2
-1
-4
-7
-10
146.5 C
35.97
29.97
23.98
17.98
11.99
5.99
0
TIME (min.)
5
2.33
-0.33
-3
-5.67
-8.33
-11
DTA (μV)
200
20
TEMPERATURE (°C)

FIG.19

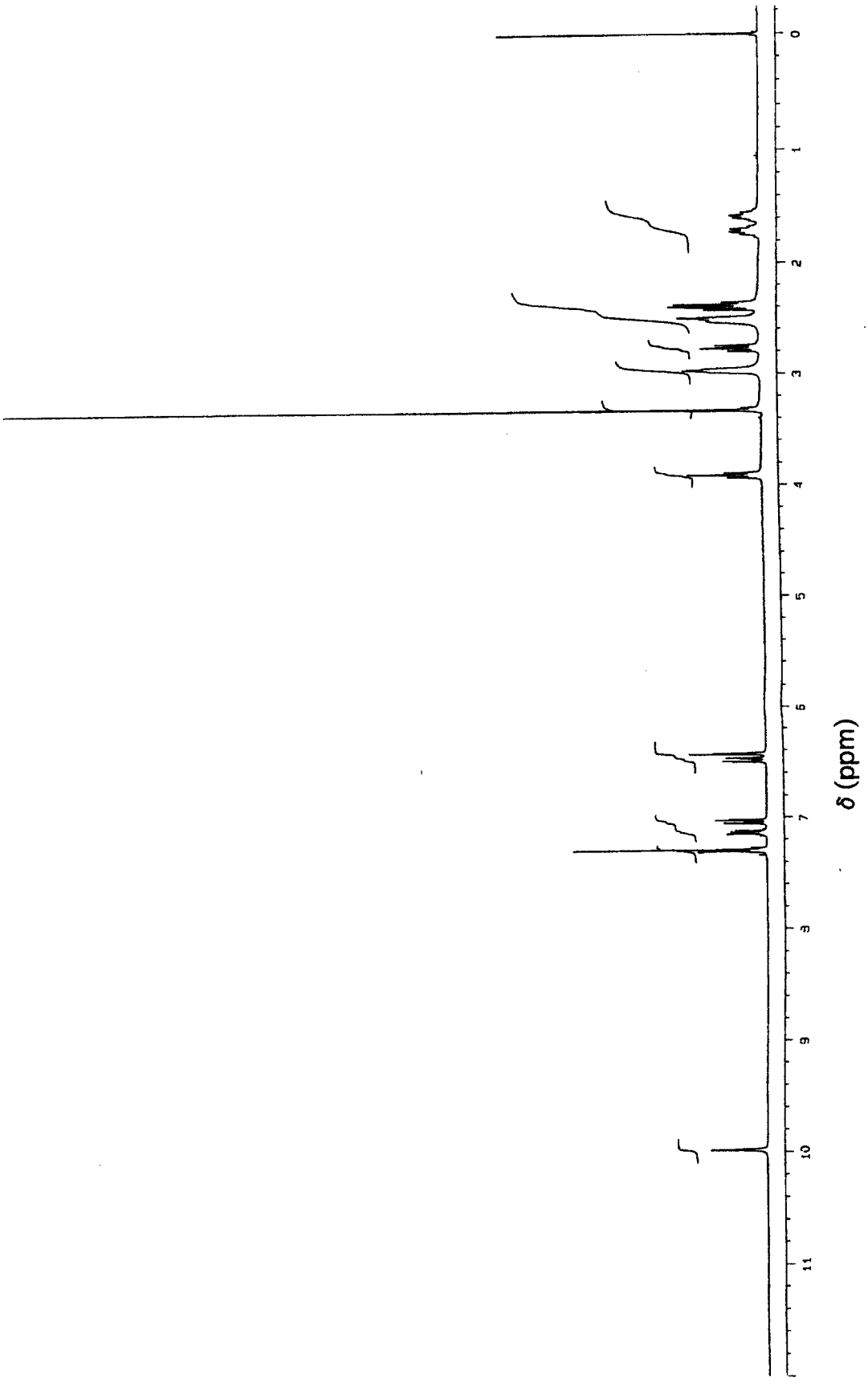


FIG.20

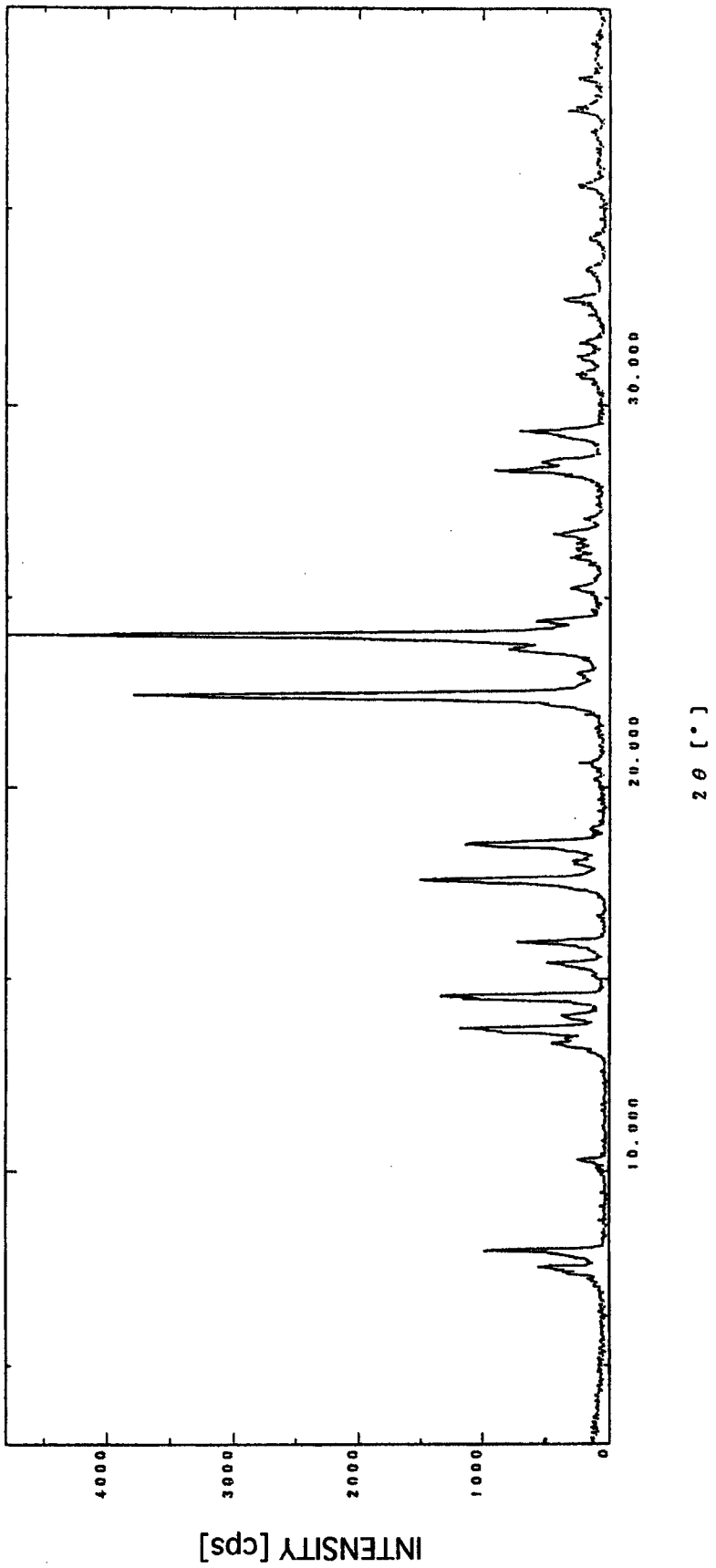


FIG.21

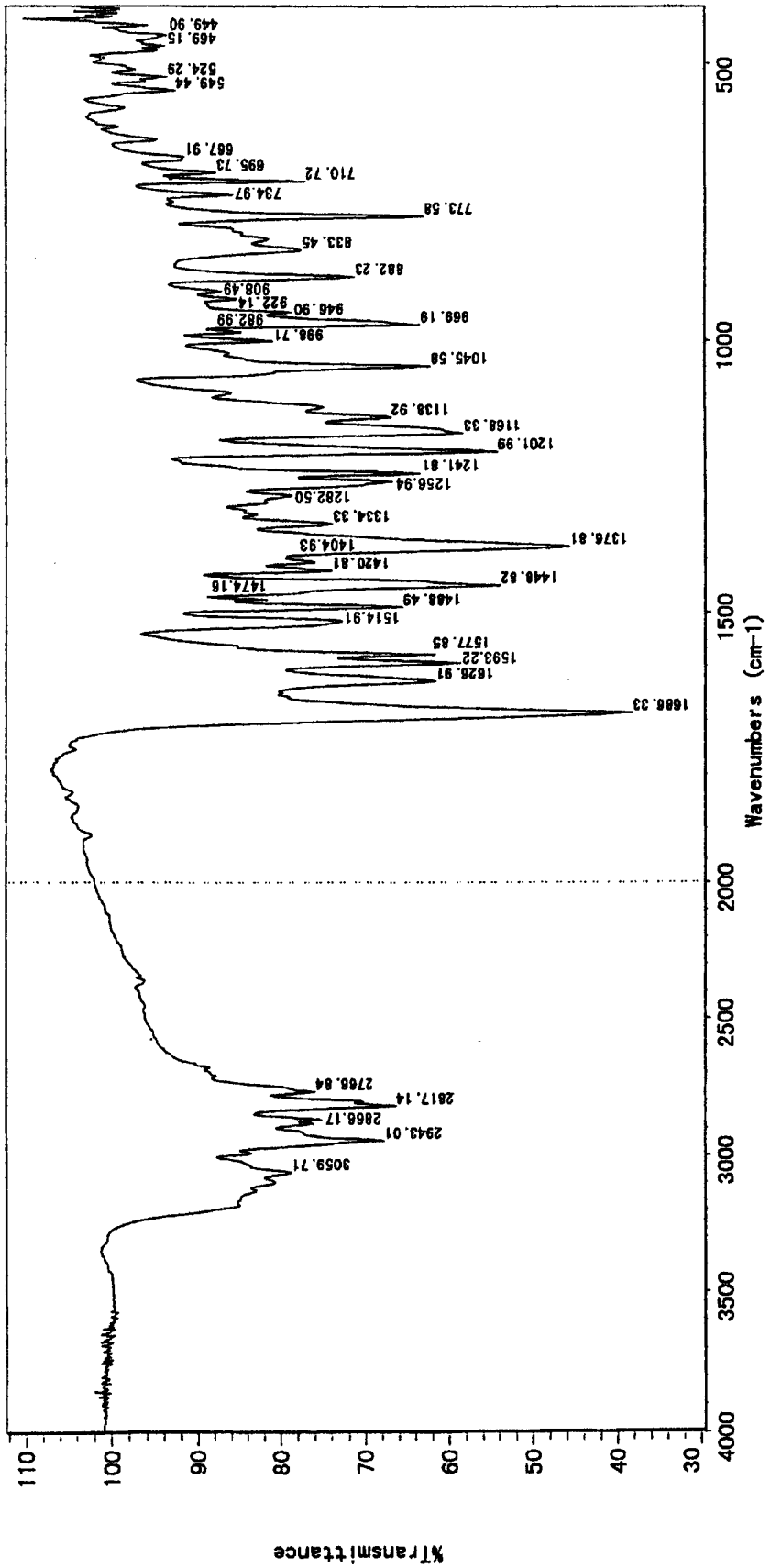

%Transmittance
110
100
90
80
70
60
50
40
30
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers (cm-1)
3059.71
2943.01
2866.17
2817.14
2766.84
1666.33
1626.91
1593.22
1577.85
1514.91
1488.49
1474.18
1448.82
1420.81
1404.93
1376.81
1334.33
1282.50
1256.94
1241.81
1201.99
1168.33
1138.92
1045.58
998.71
982.99
969.19
946.90
922.14
908.49
882.23
833.45
773.58
734.97
710.72
695.73
667.91
549.44
524.29
469.15
449.90

FIG.22

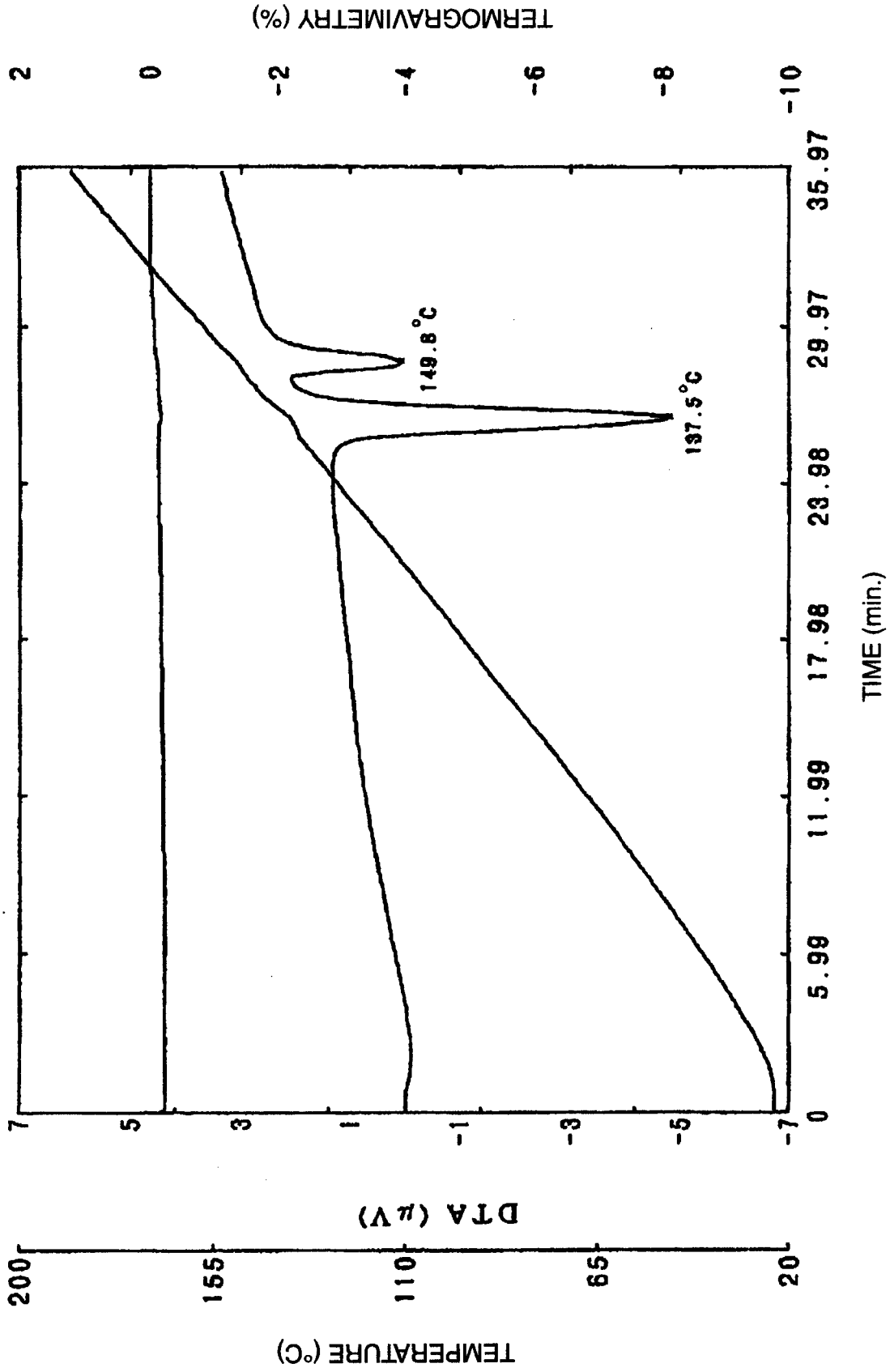

TERMOGRAVIMETRY (%)
2
0
-2
-4
-6
-8
-10
149.8°C
197.5°C
35.97
29.97
23.98
17.98
11.99
5.99
0
TIME (min.)
7
5
3
1
-1
-3
-5
-7
DTA (μV)
200
155
110
65
20
TEMPERATURE (°C)

FIG.23

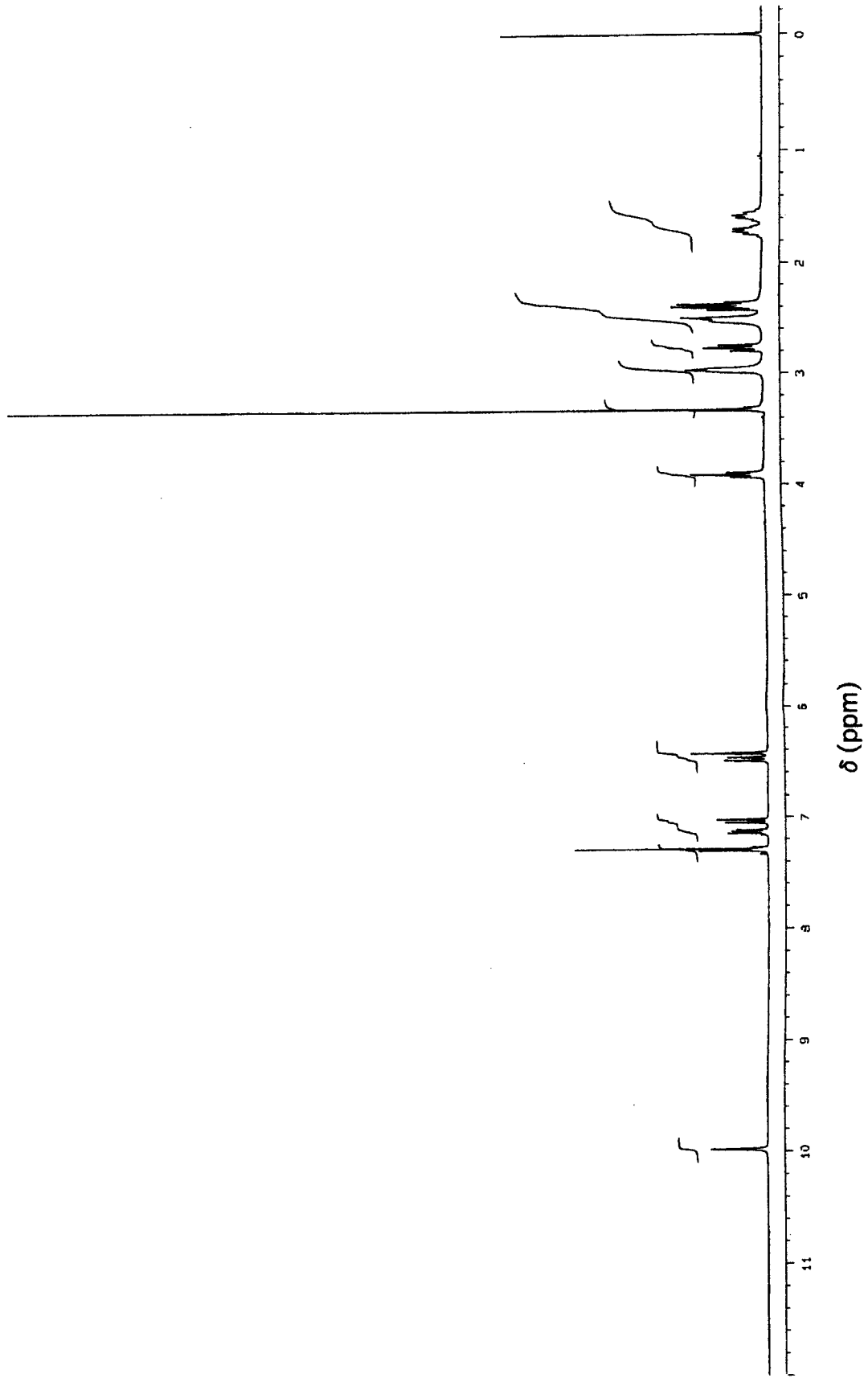


FIG.24

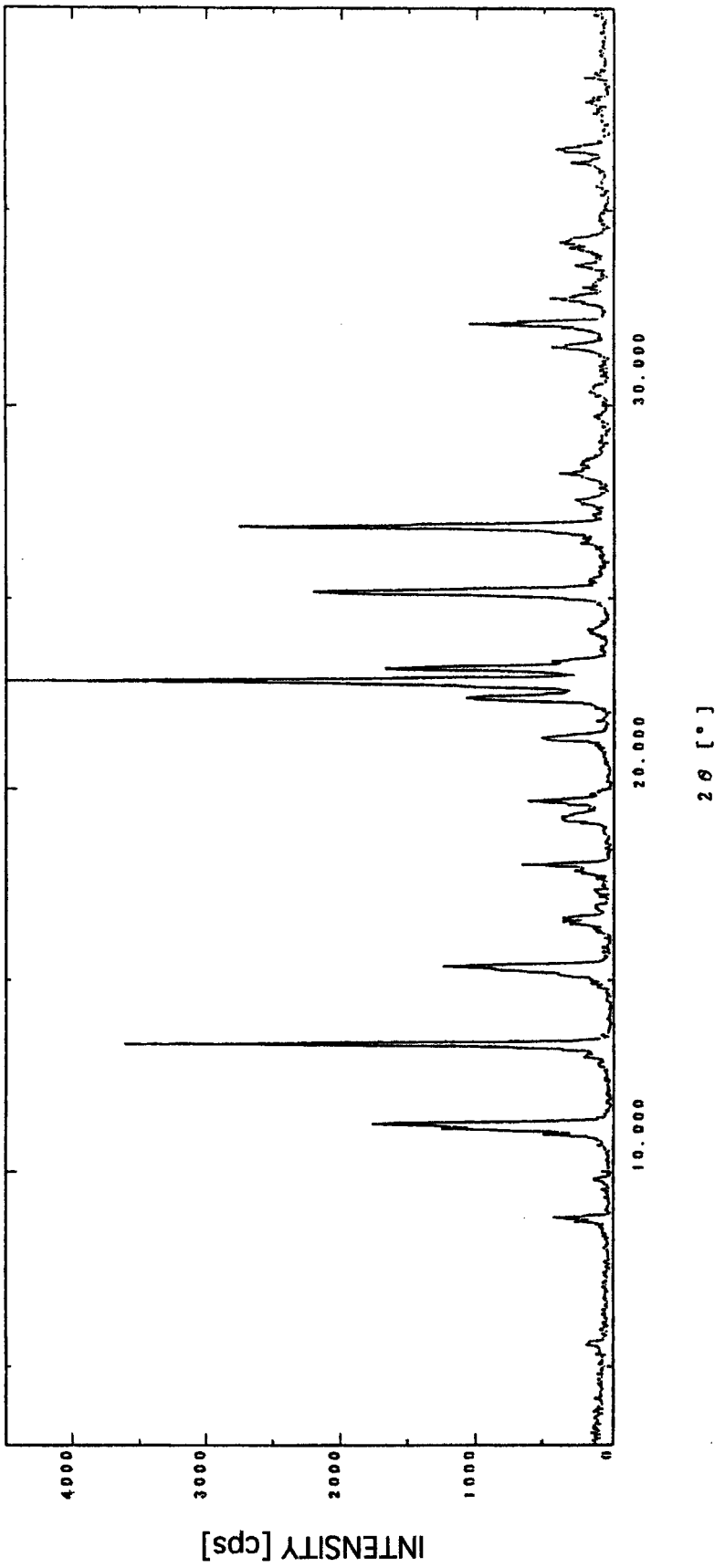


FIG.25

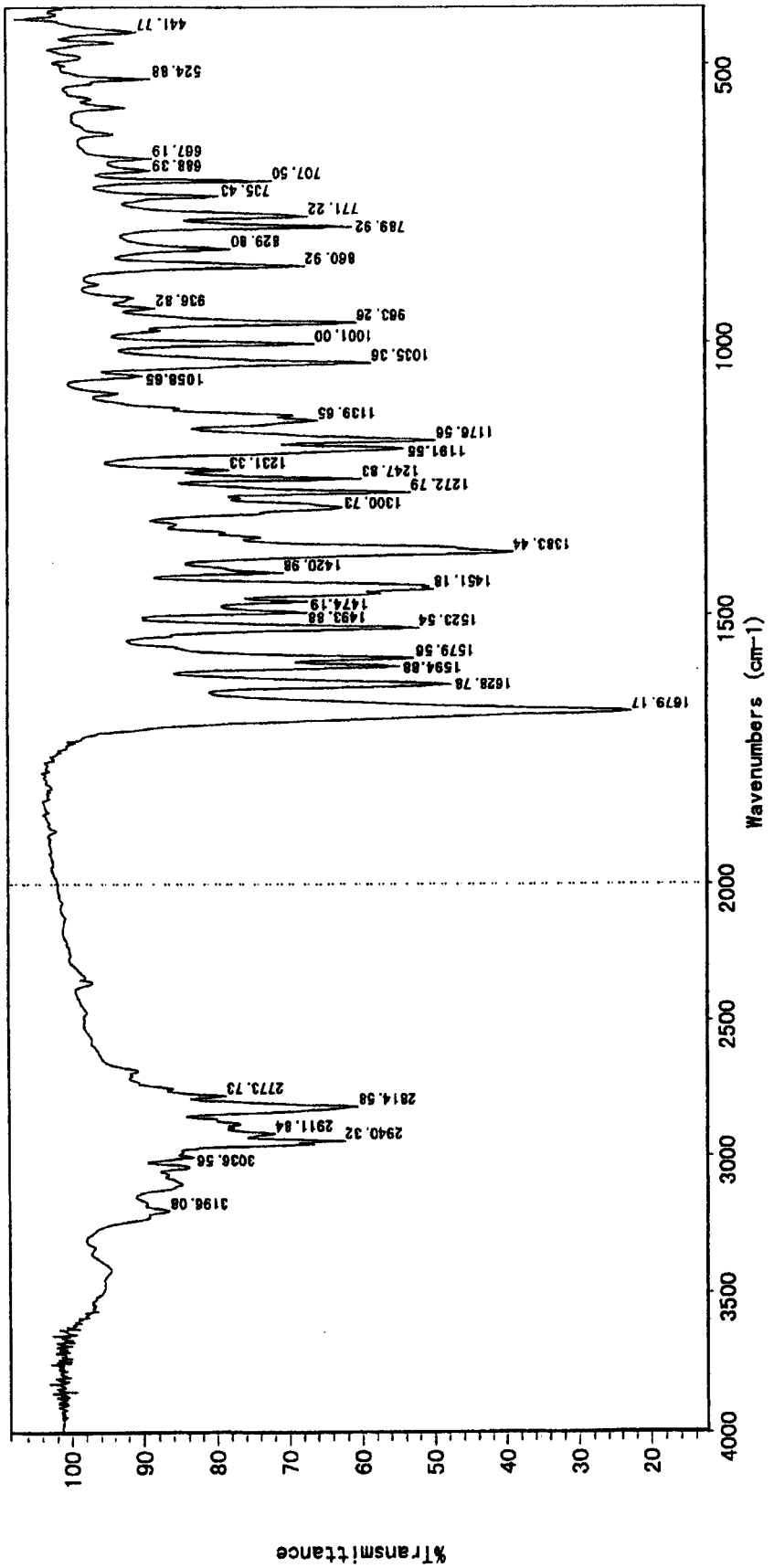

%Transmittance
100
90
80
70
60
50
40
30
20
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers (cm-1)
441.77
524.88
687.19
688.39
707.50
735.43
771.22
789.92
829.80
860.92
936.82
963.26
1001.00
1035.36
1058.65
1139.65
1176.56
1181.55
1231.33
1247.83
1272.79
1300.73
1383.44
1420.98
1451.18
1474.19
1493.88
1523.54
1579.56
1594.88
1628.78
1679.17
2773.73
2814.58
2911.84
2940.32
3036.56
3196.08

FIG.26

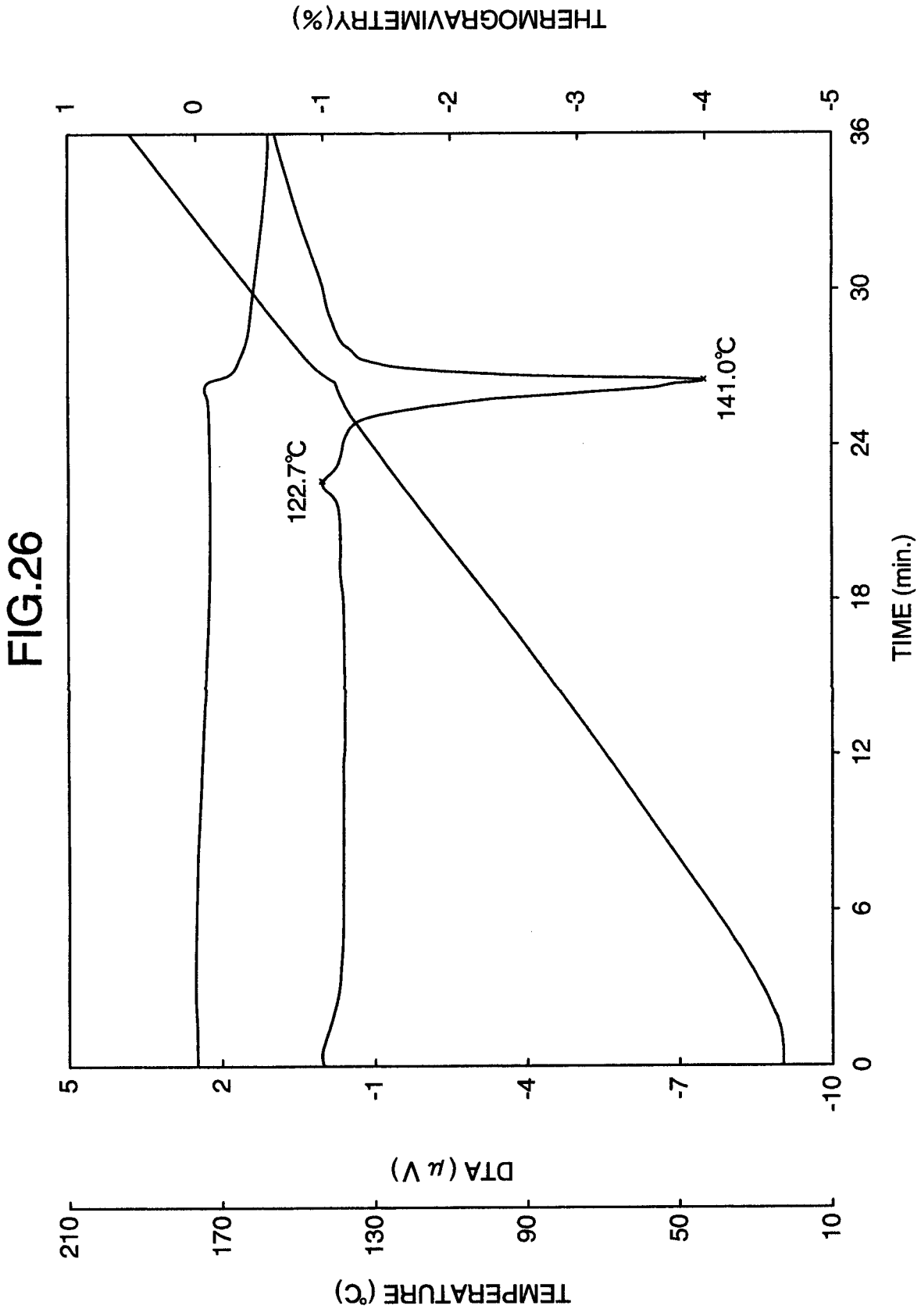

THERMOGRAVIMETRY(%)
1
0
-1
-2
-3
-4
-5
36
30
24
18
12
6
0
TIME (min.)
141.0℃
122.7℃
5
2
-1
-4
-7
-10
DTA (μV)
210
170
130
90
50
10
TEMPERATURE (℃)

FIG.27

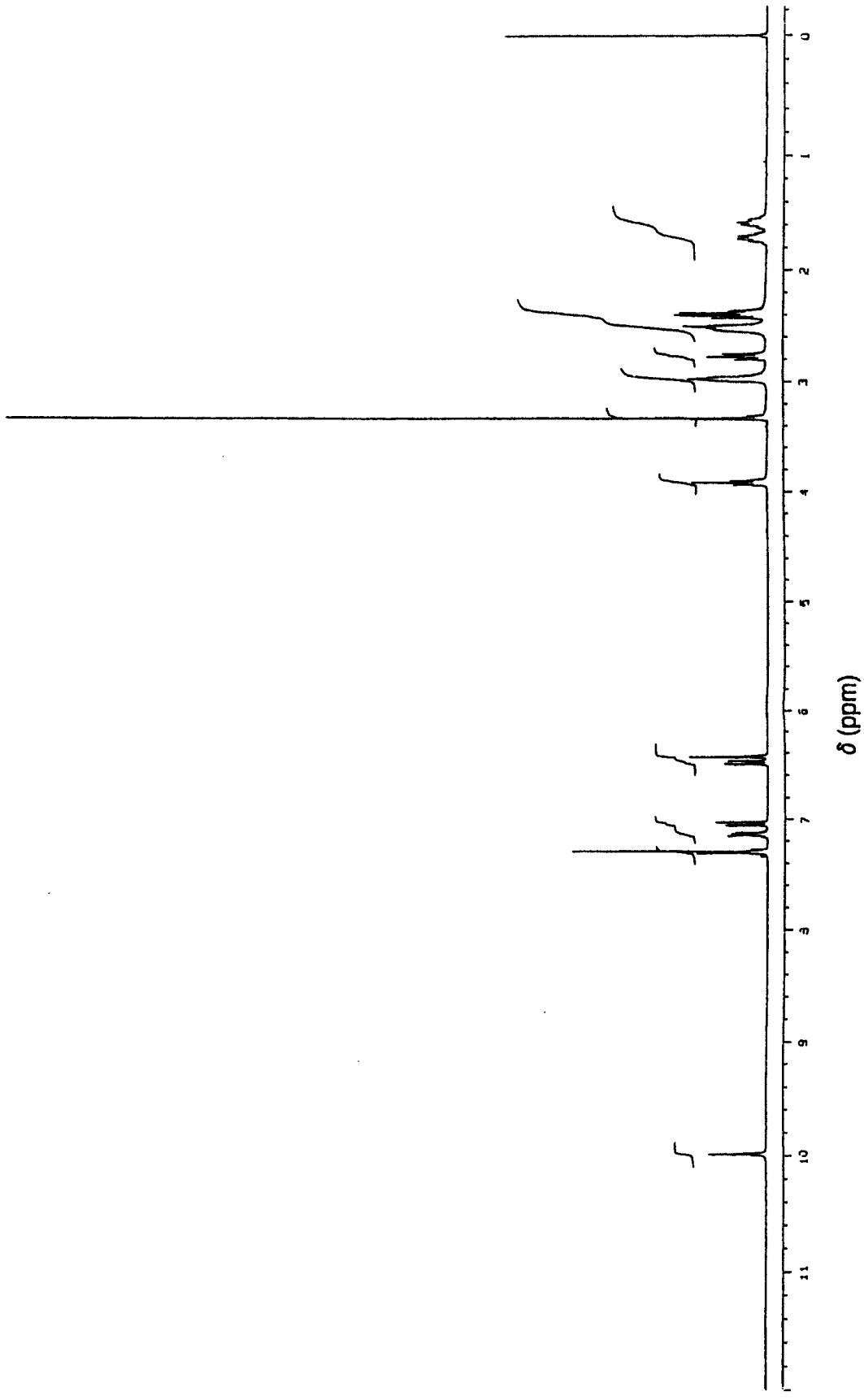


FIG.28

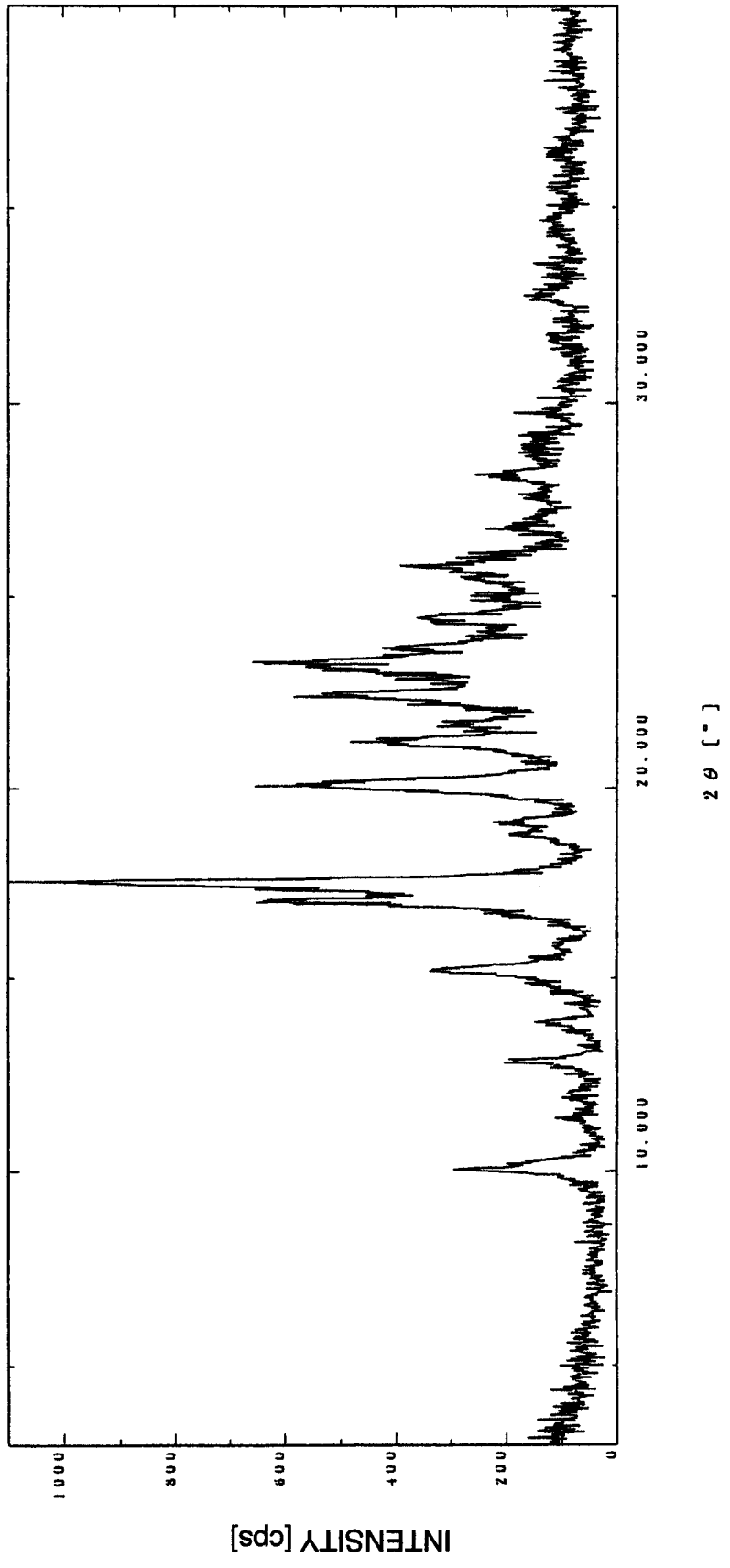


FIG.29

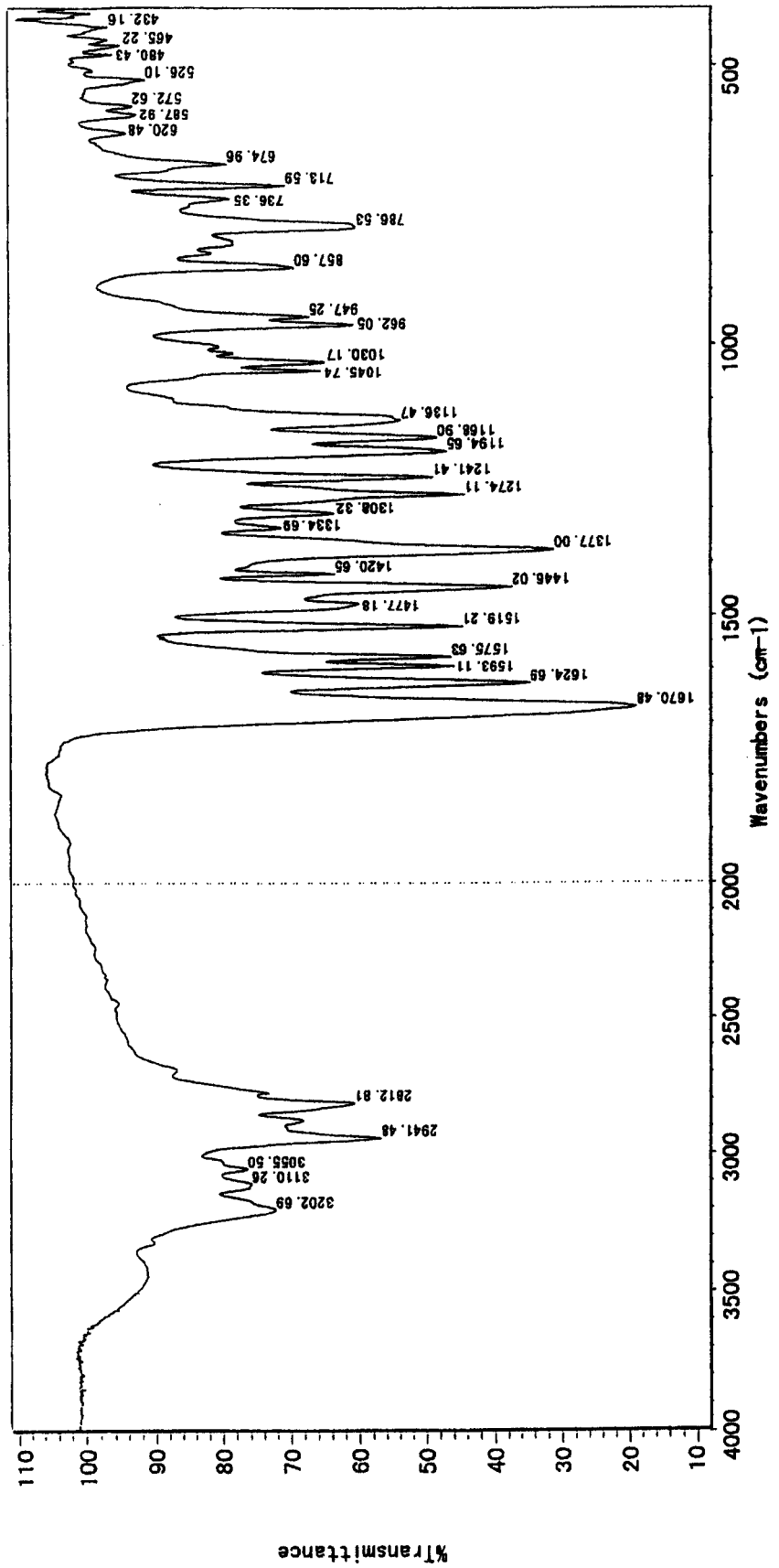

%Transmittance
110
100
90
80
70
60
50
40
30
20
10
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers (cm-1)
3202.69
3110.26
3055.50
2941.48
2812.81
1670.48
1624.69
1593.11
1575.63
1519.21
1477.18
1446.02
1420.65
1377.00
1334.69
1308.32
1274.11
1241.41
1194.65
1168.90
1136.47
1045.74
1030.17
962.05
947.25
857.60
786.53
736.35
713.59
674.96
620.48
587.92
572.62
526.10
480.43
465.22
432.16

FIG.30

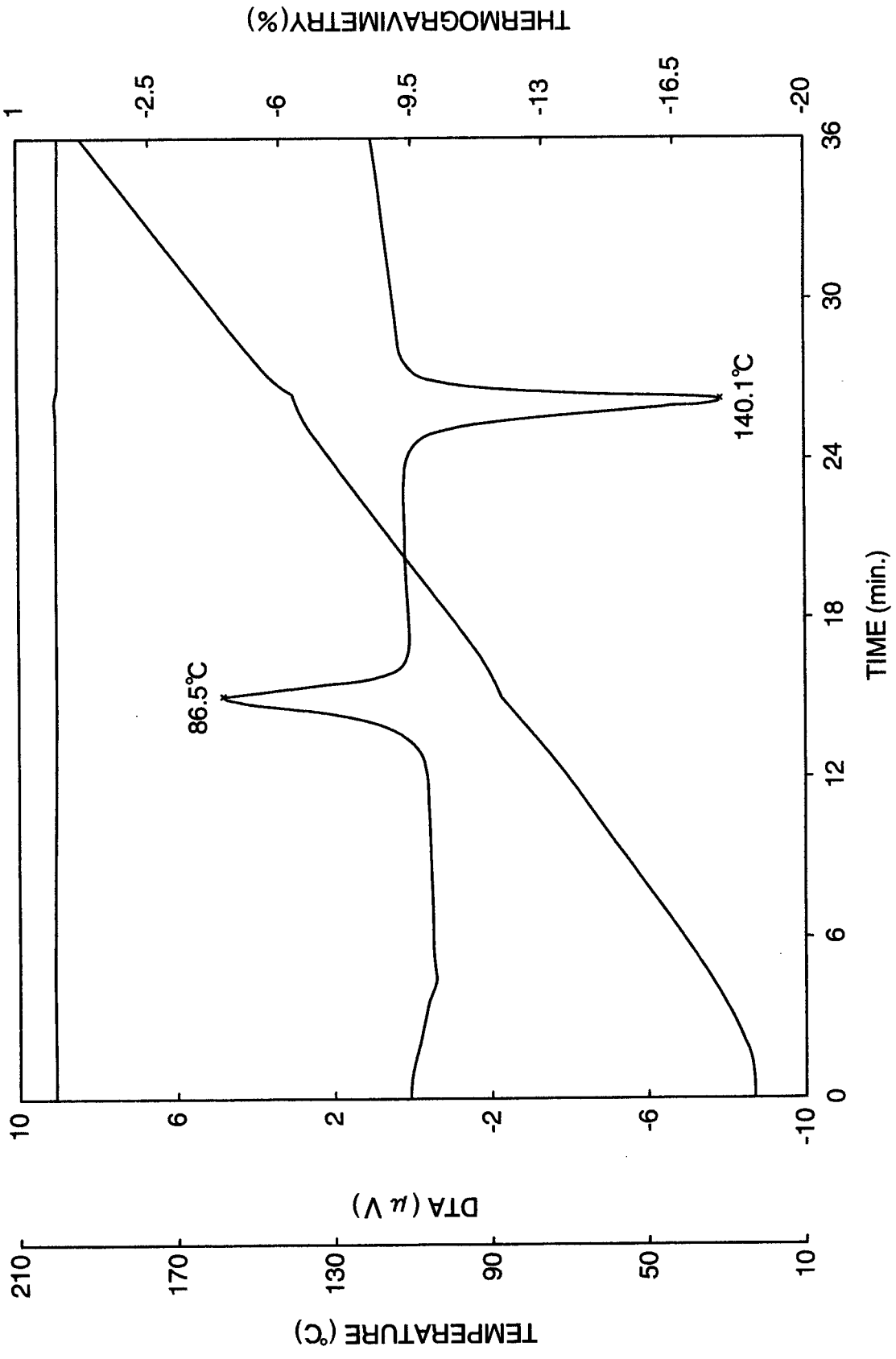

TEMPERATURE (℃)
210
170
130
90
50
10
DTA (μV)
10
6
2
-2
-6
-10
TIME (min.)
0
6
12
18
24
30
36
THERMOGRAVIMETRY(%)
1
-2.5
-6
-9.5
-13
-16.5
-20
86.5℃
140.1℃

FIG.31

