

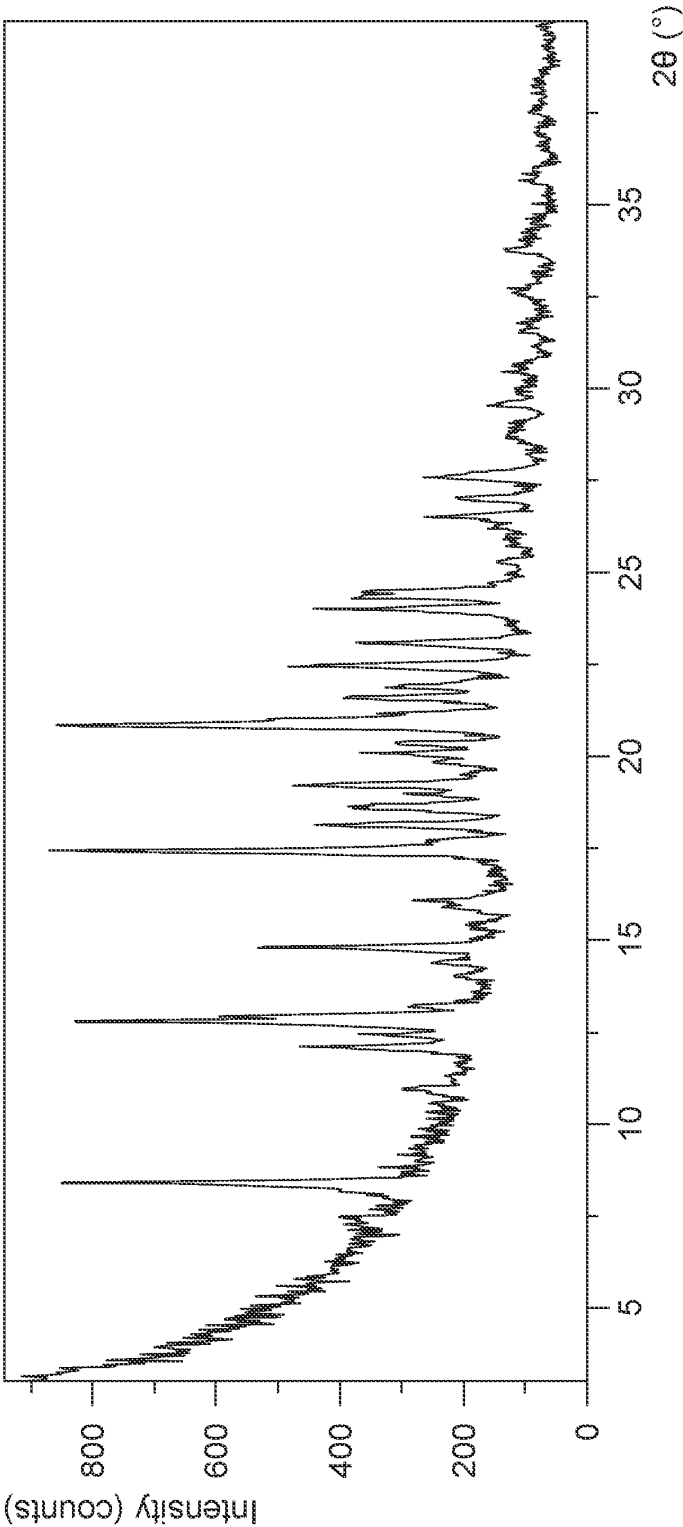


FIG. 1

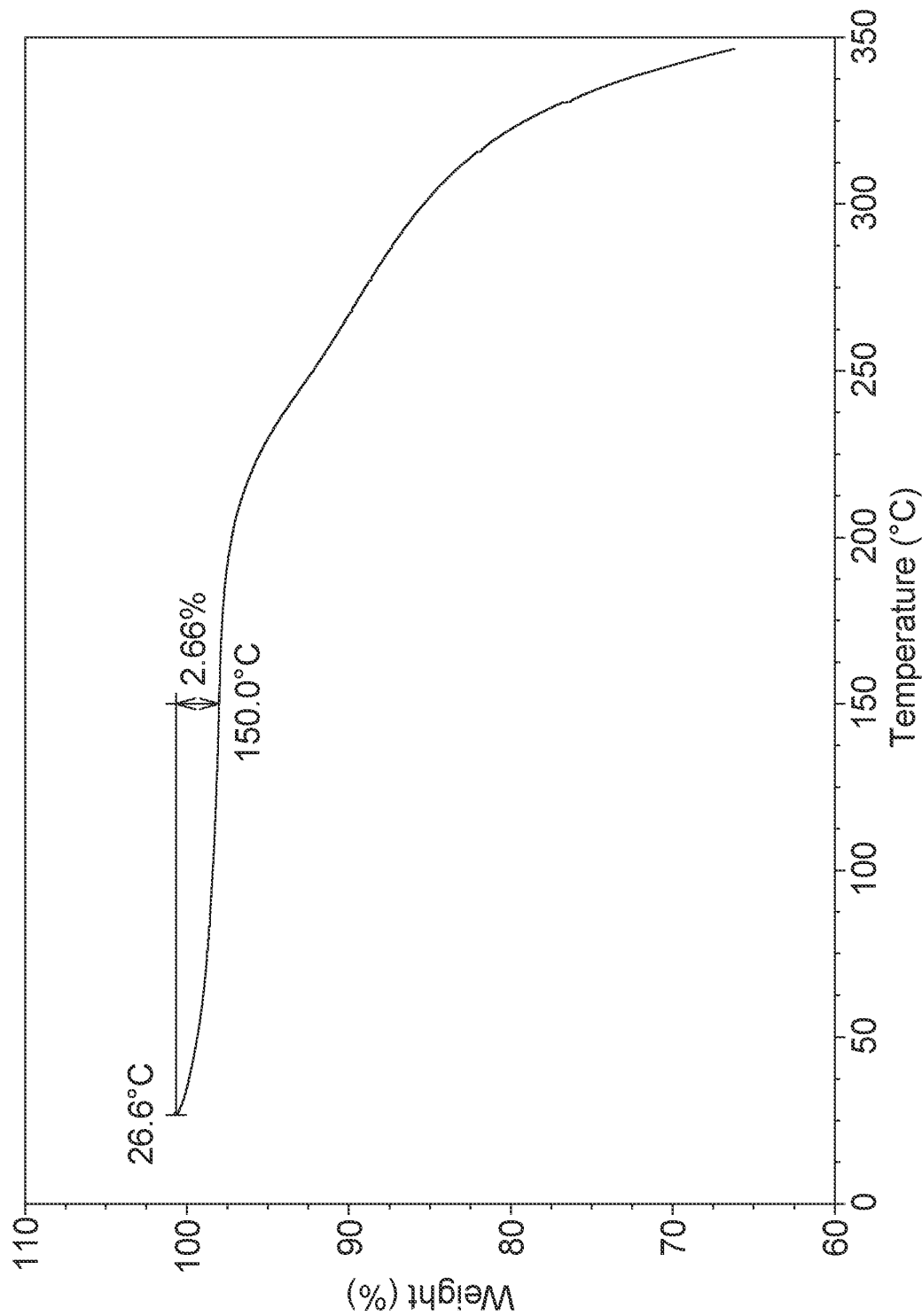


FIG. 2

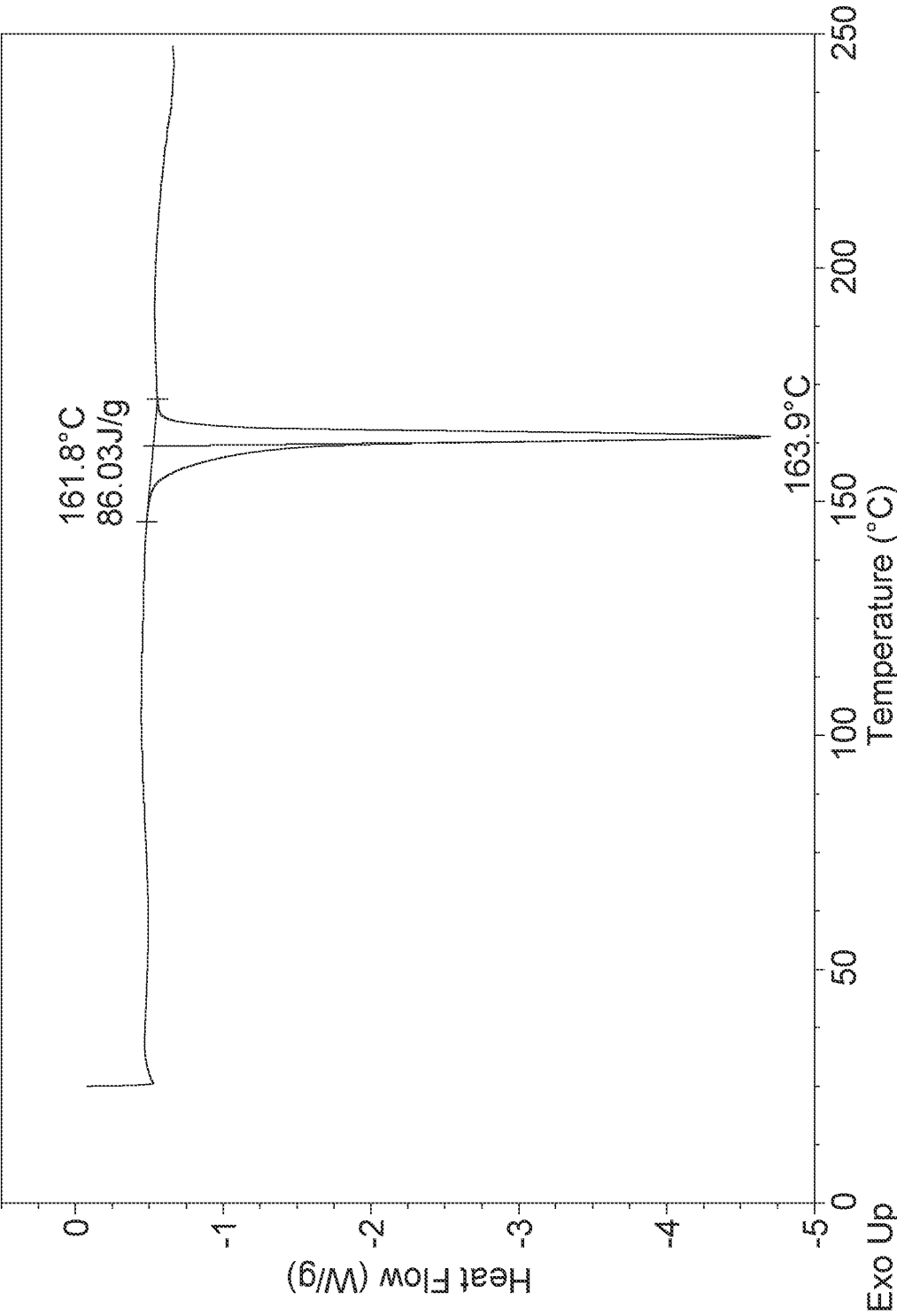


FIG. 3

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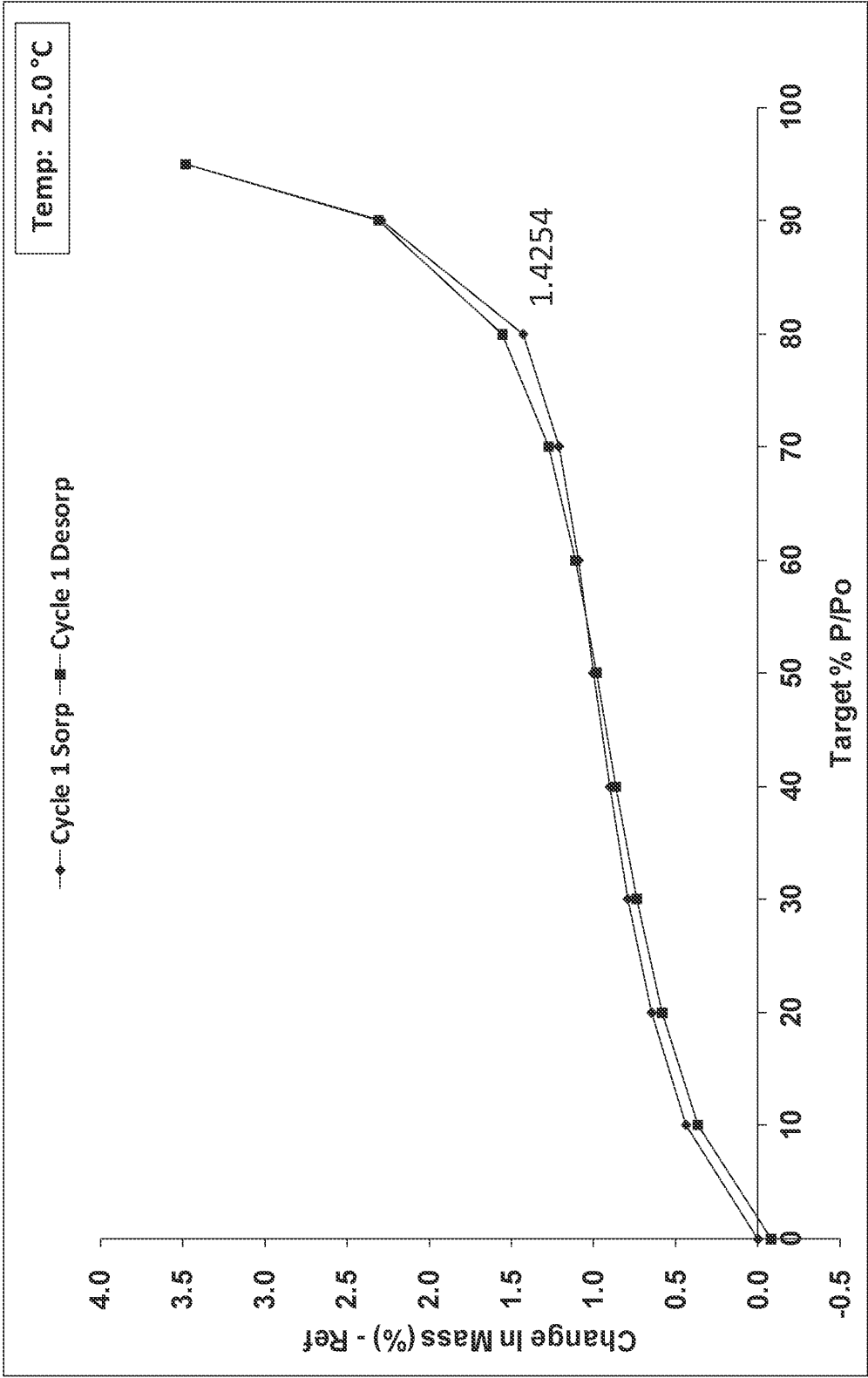


FIG. 4

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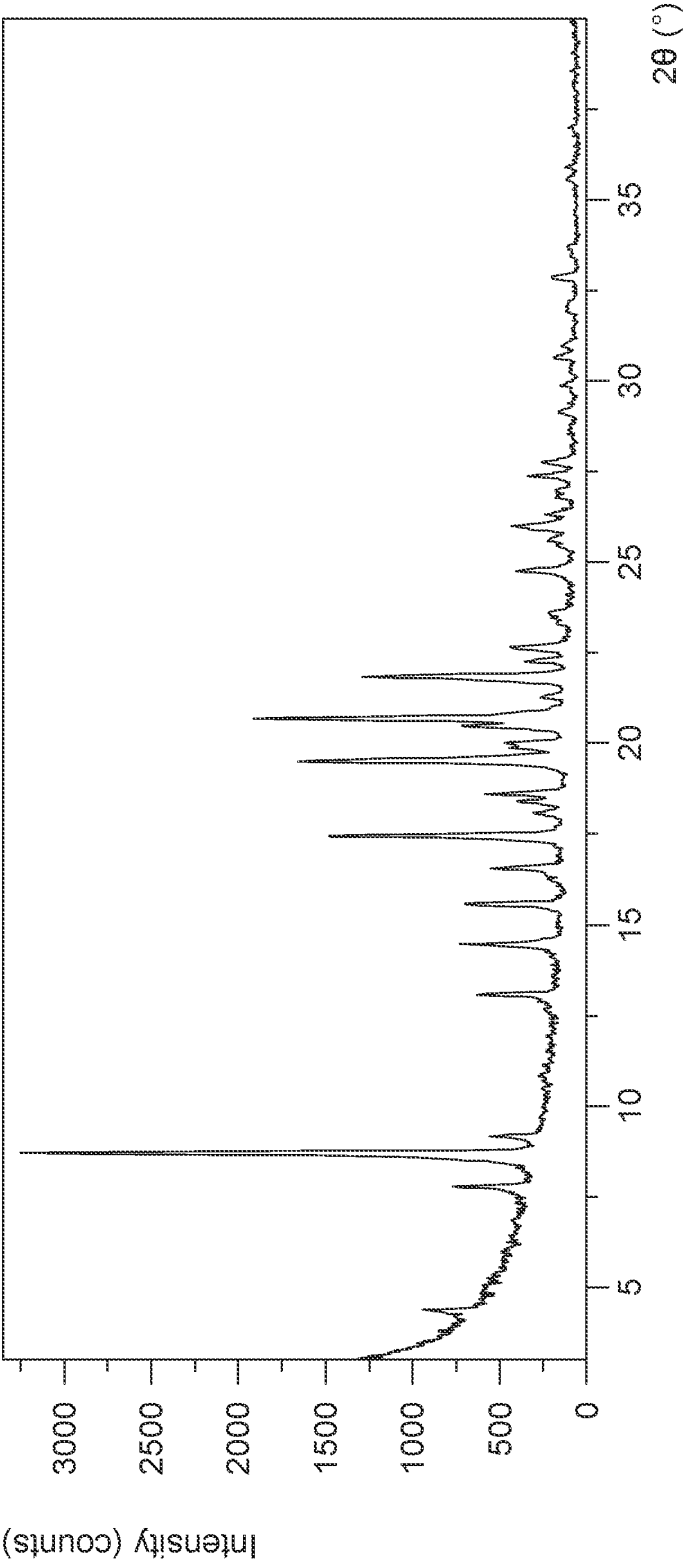


FIG. 5

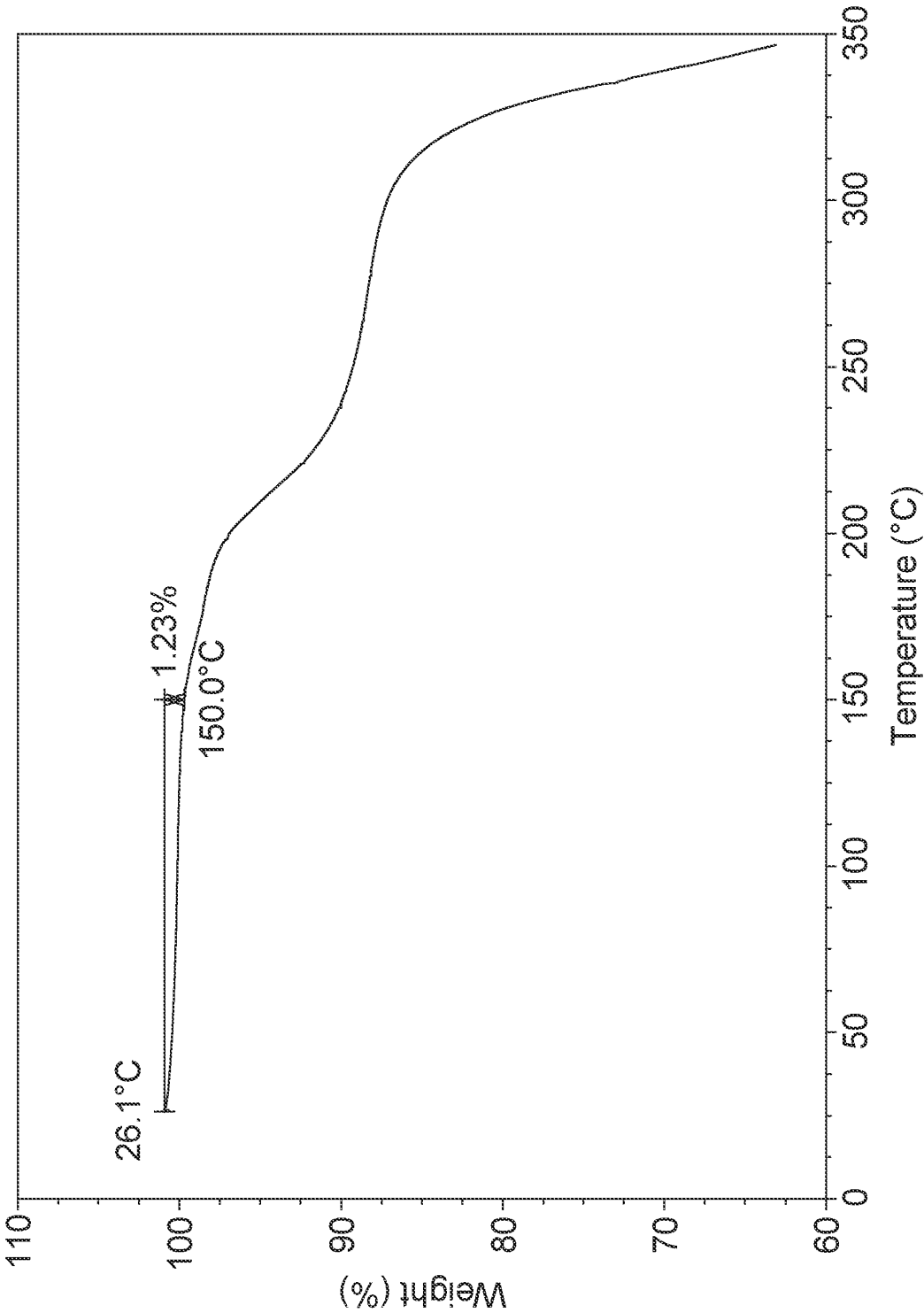


FIG. 6

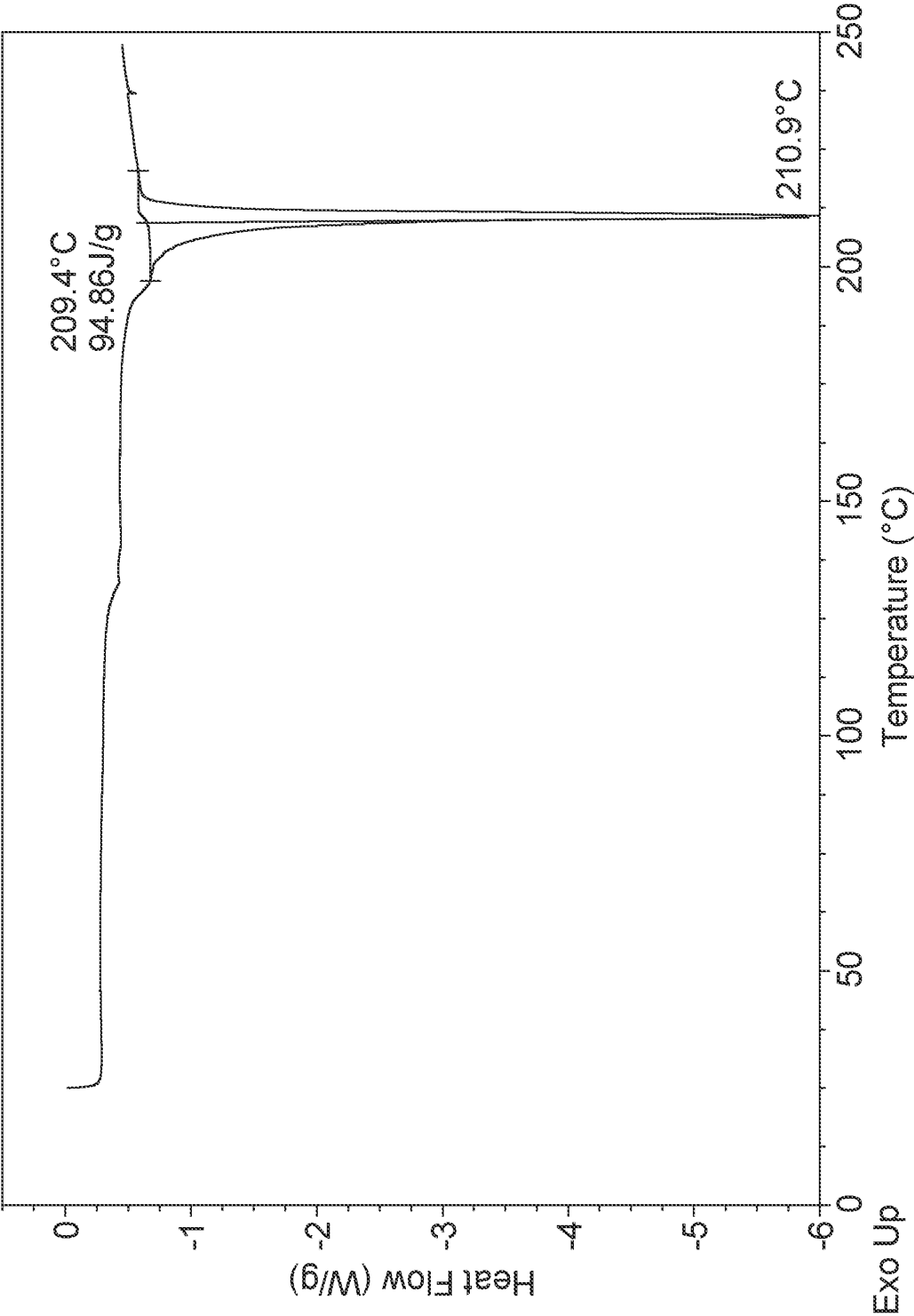


FIG. 7

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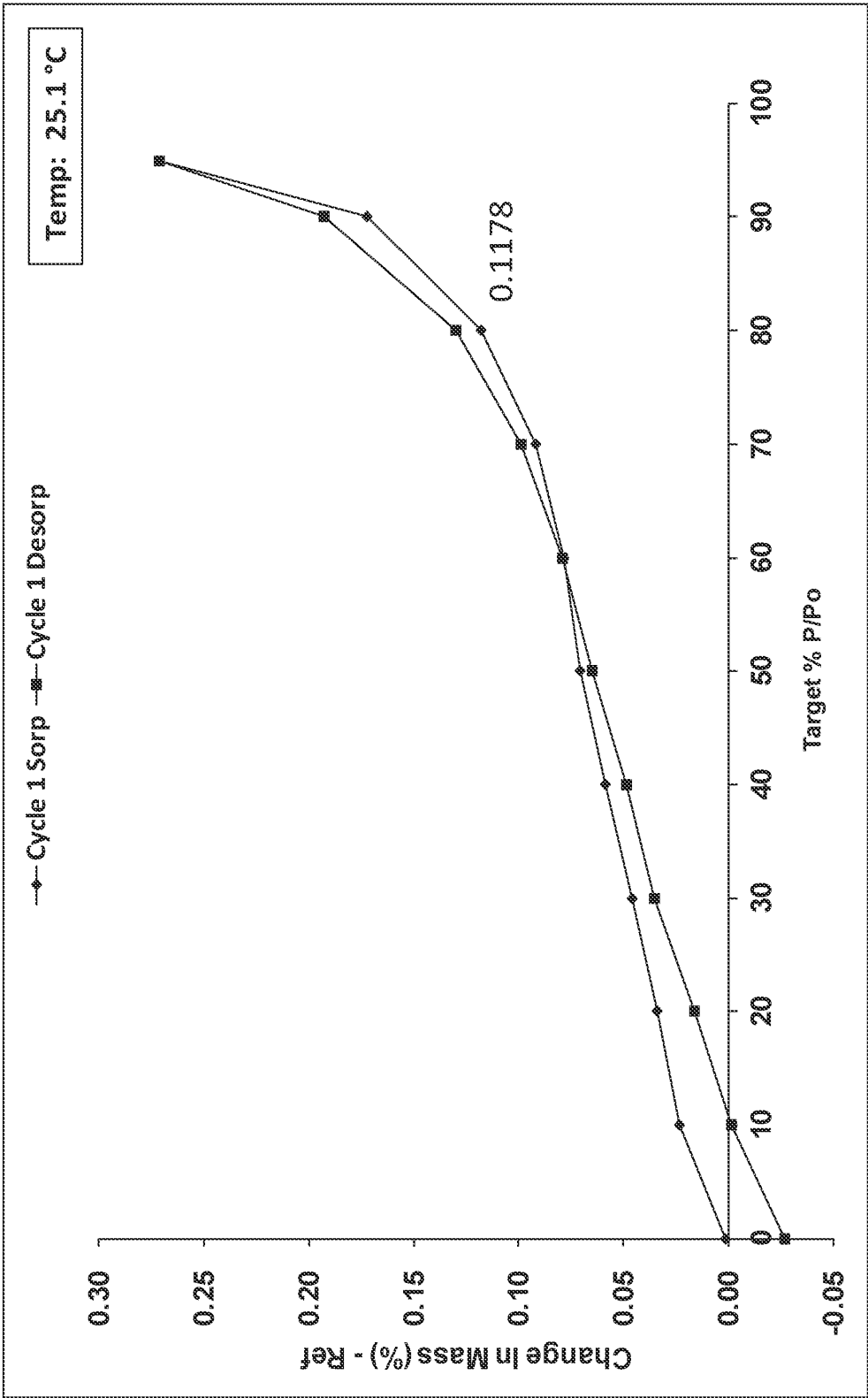


FIG. 8

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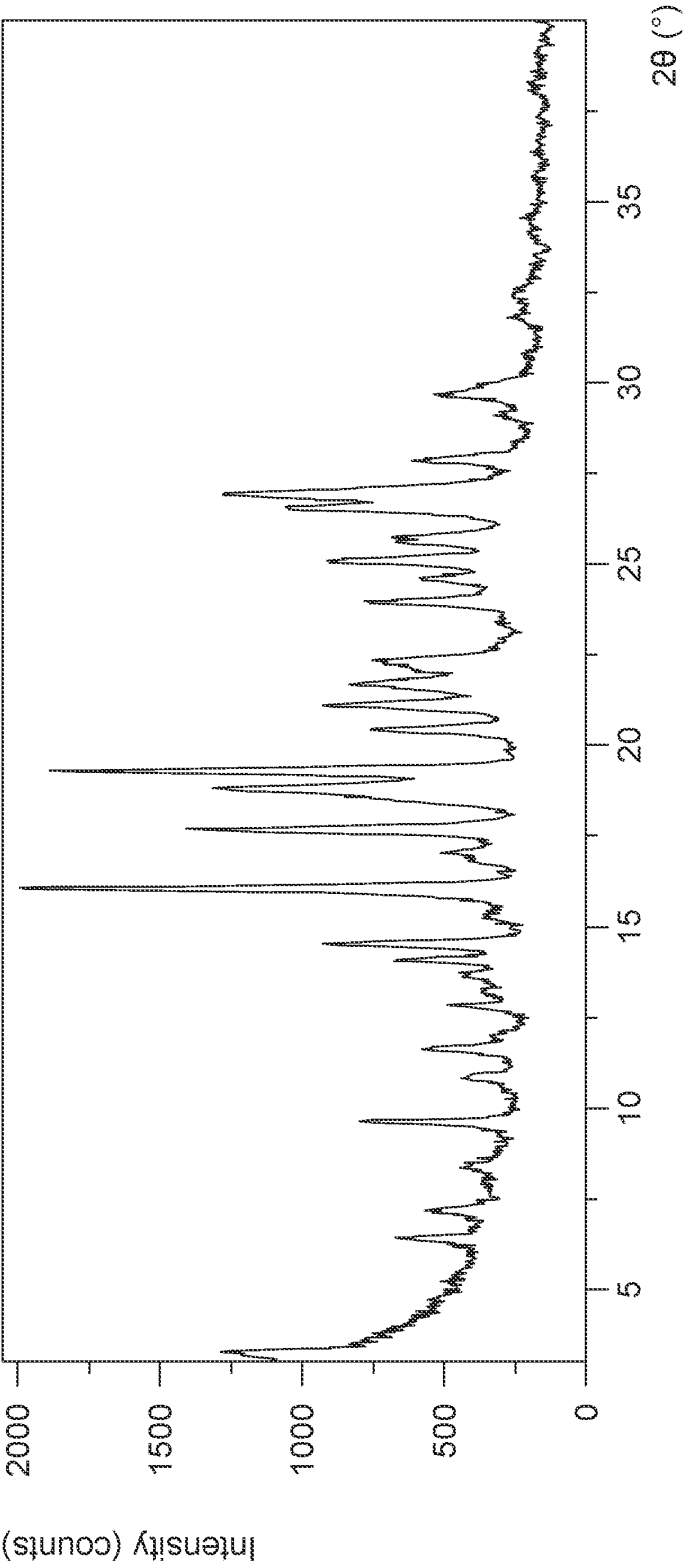


FIG. 9

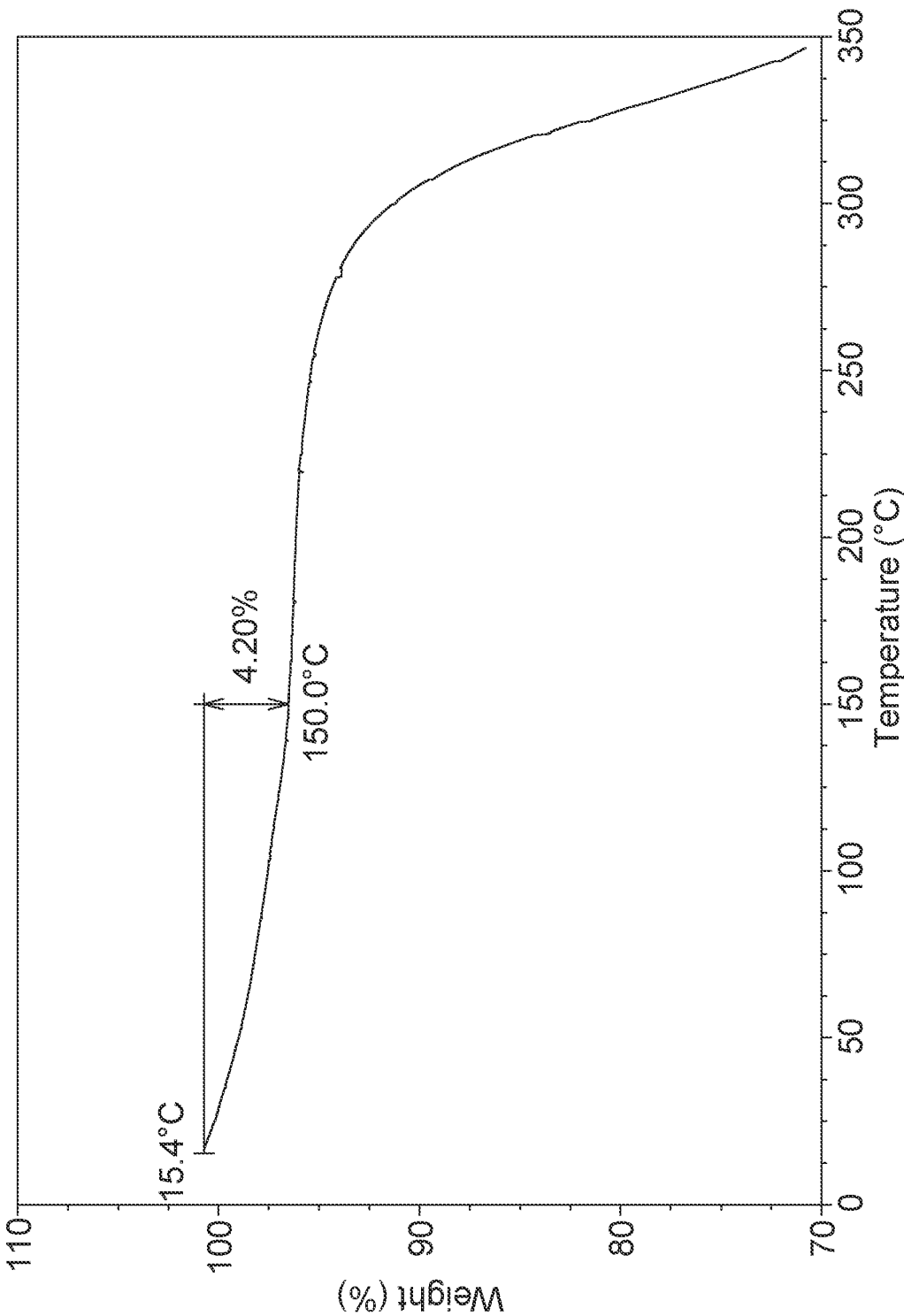


FIG. 10

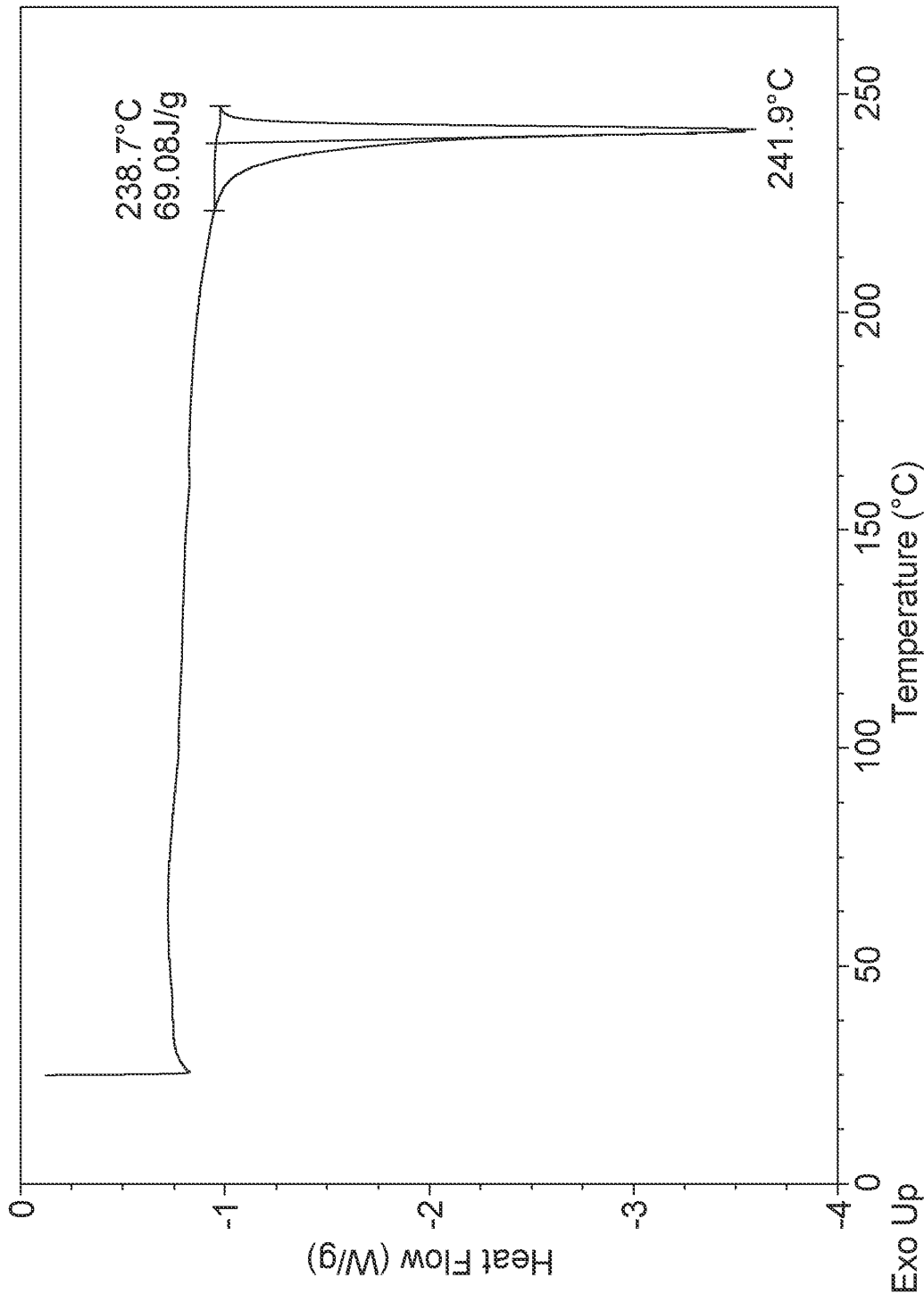


FIG. 11

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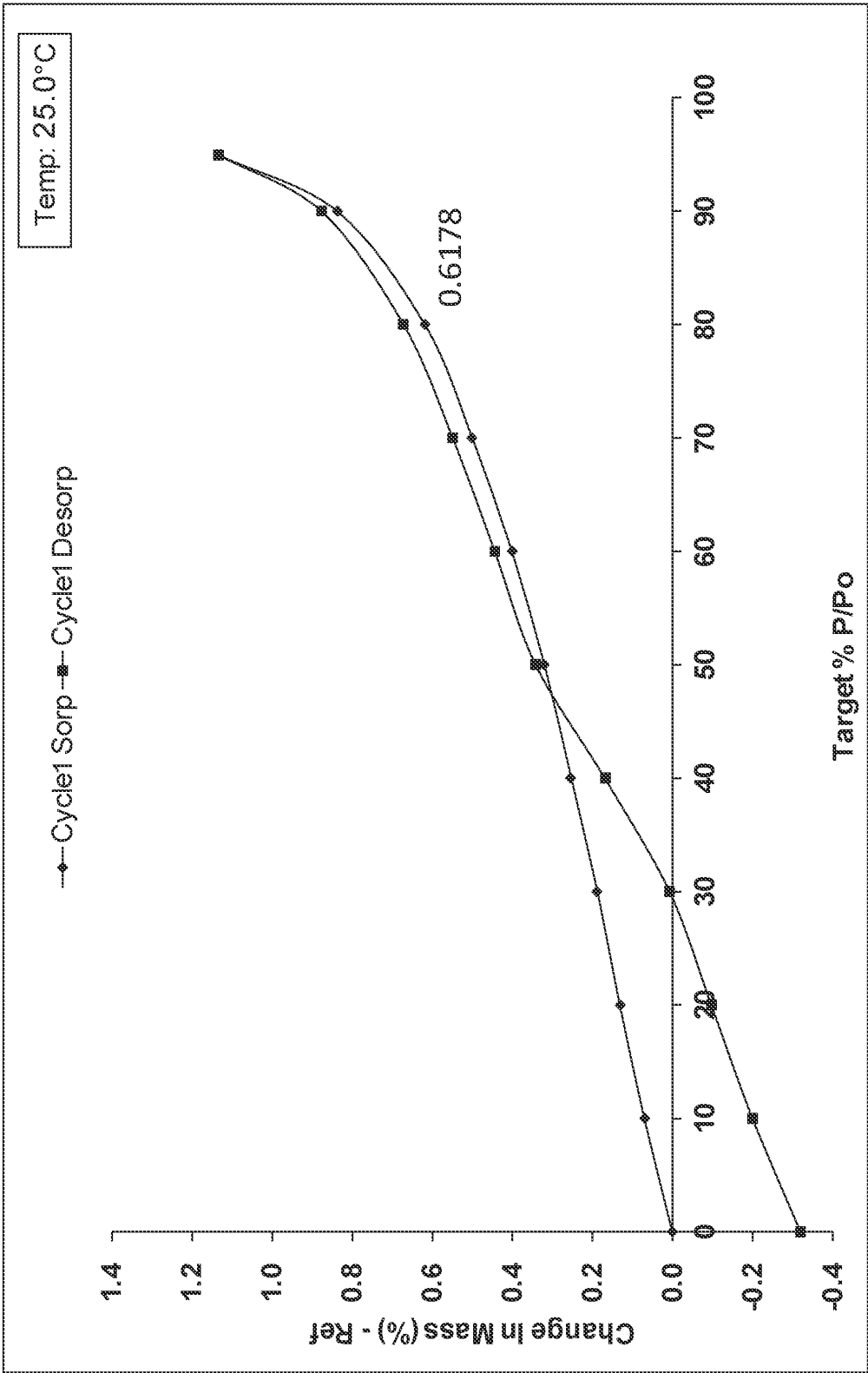


FIG. 12

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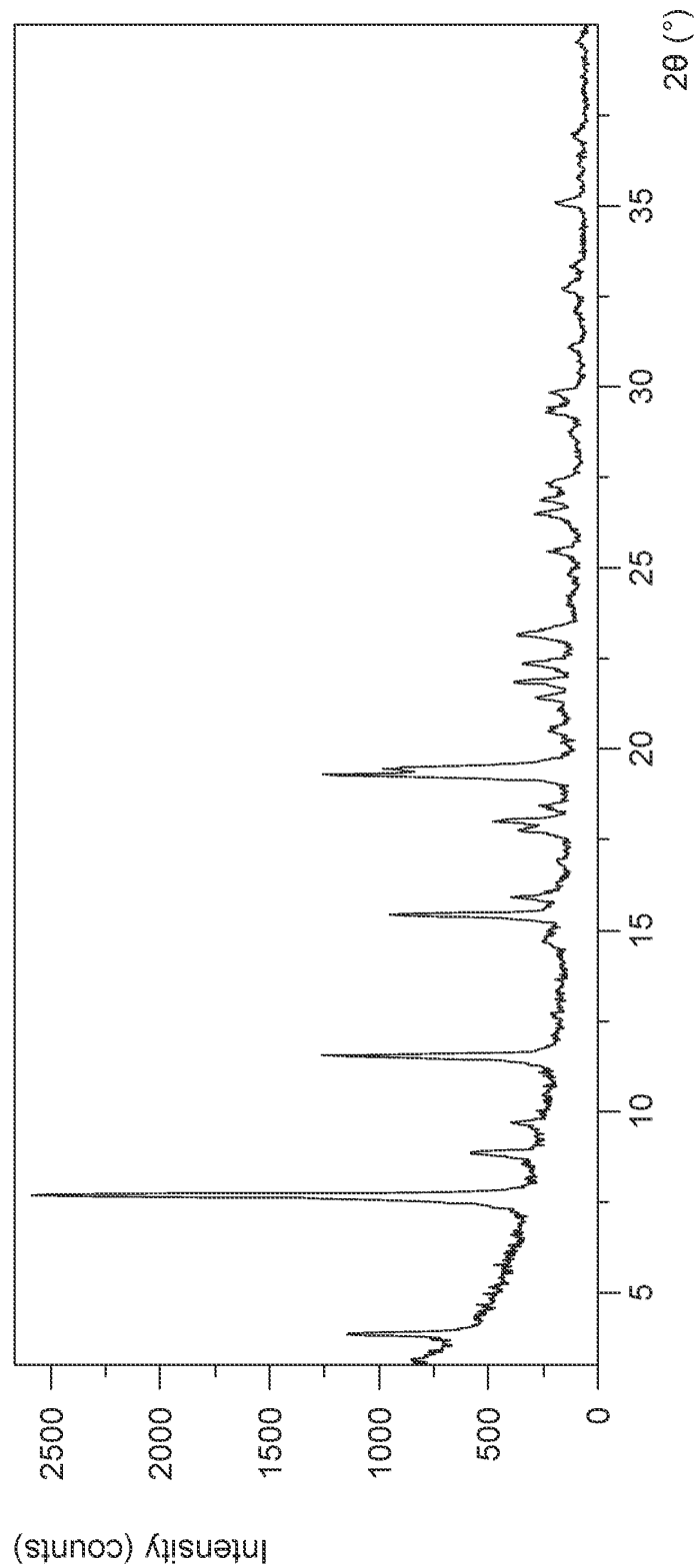


FIG. 13

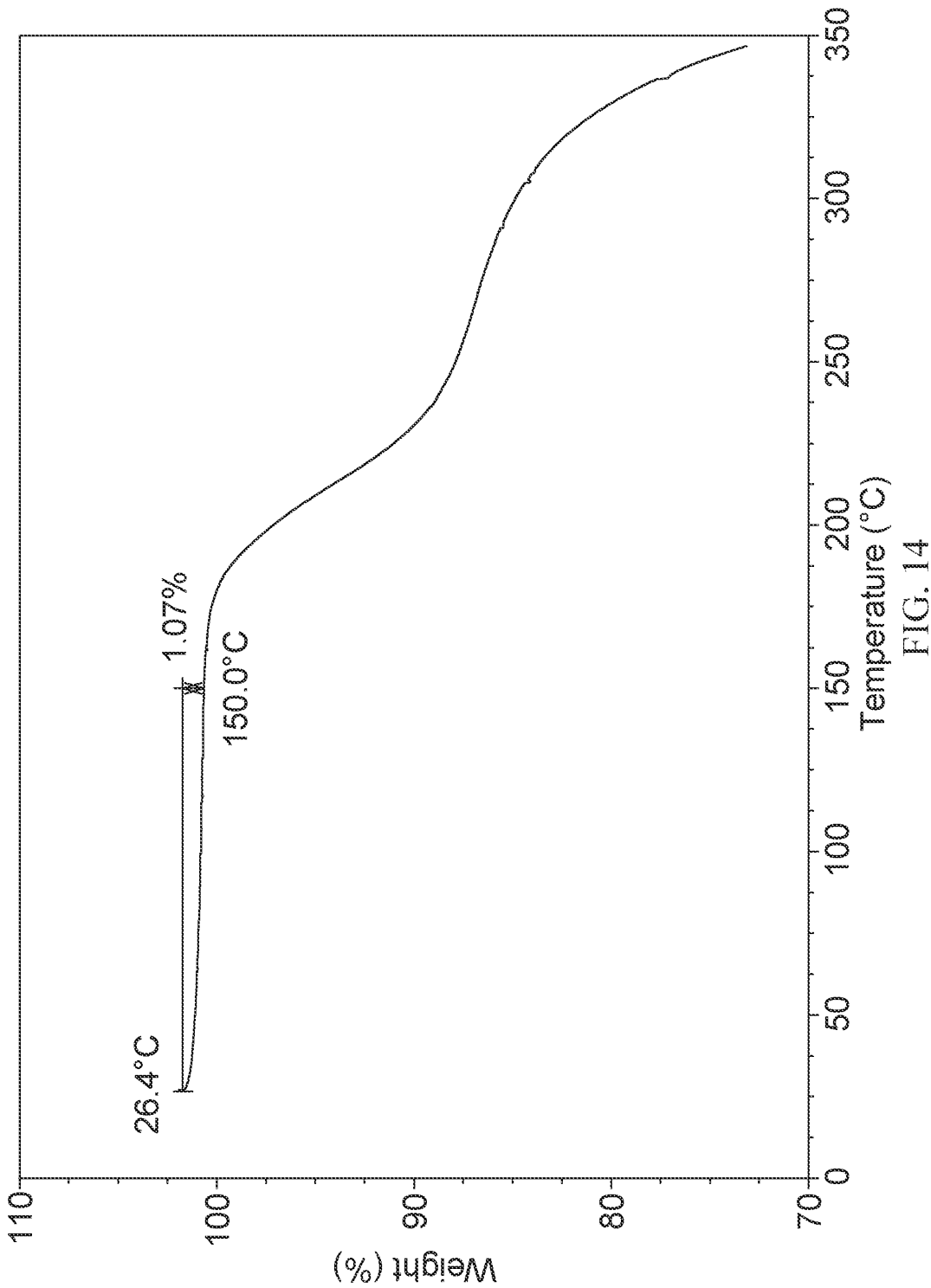


FIG. 14

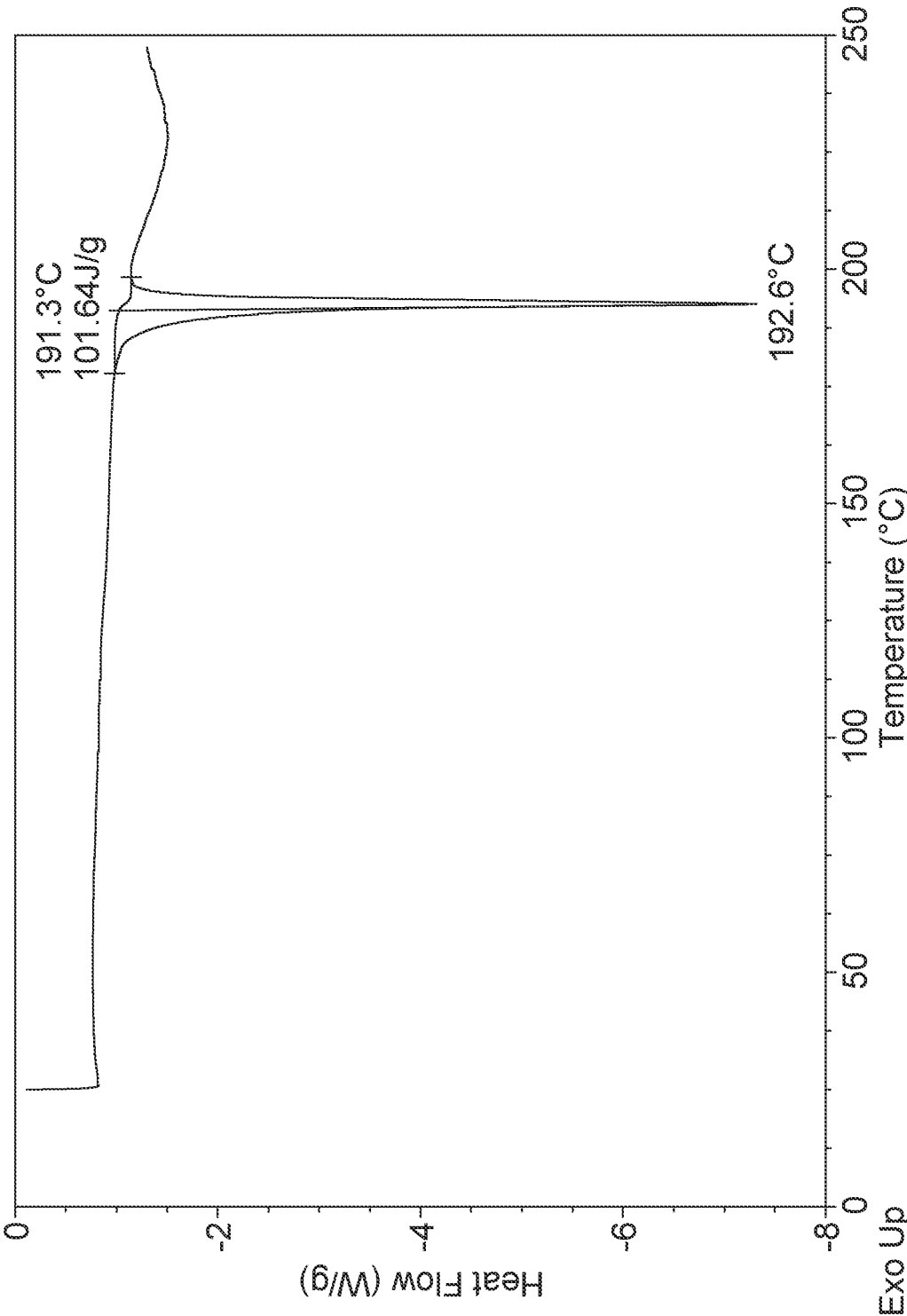


FIG. 15

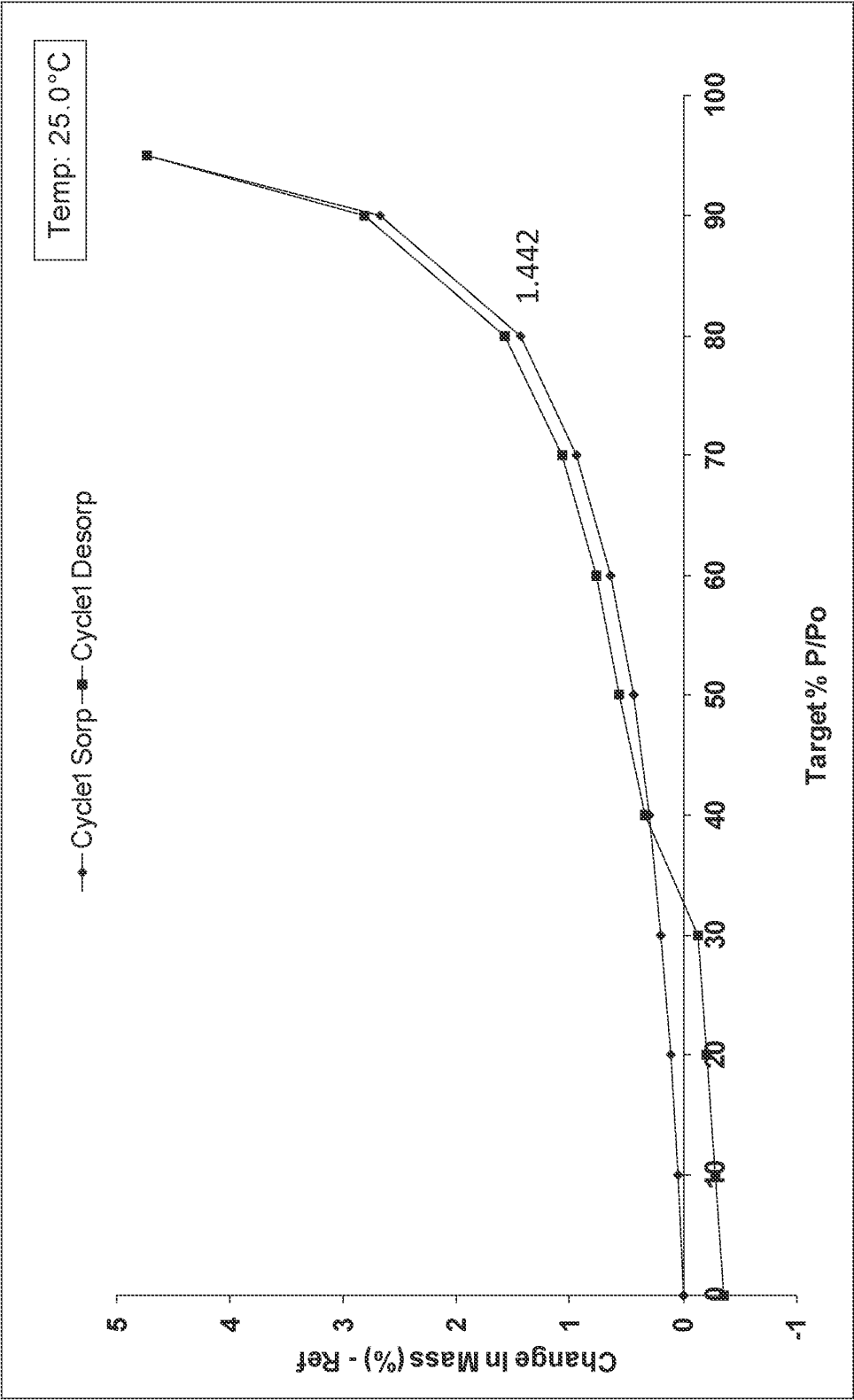


FIG. 16

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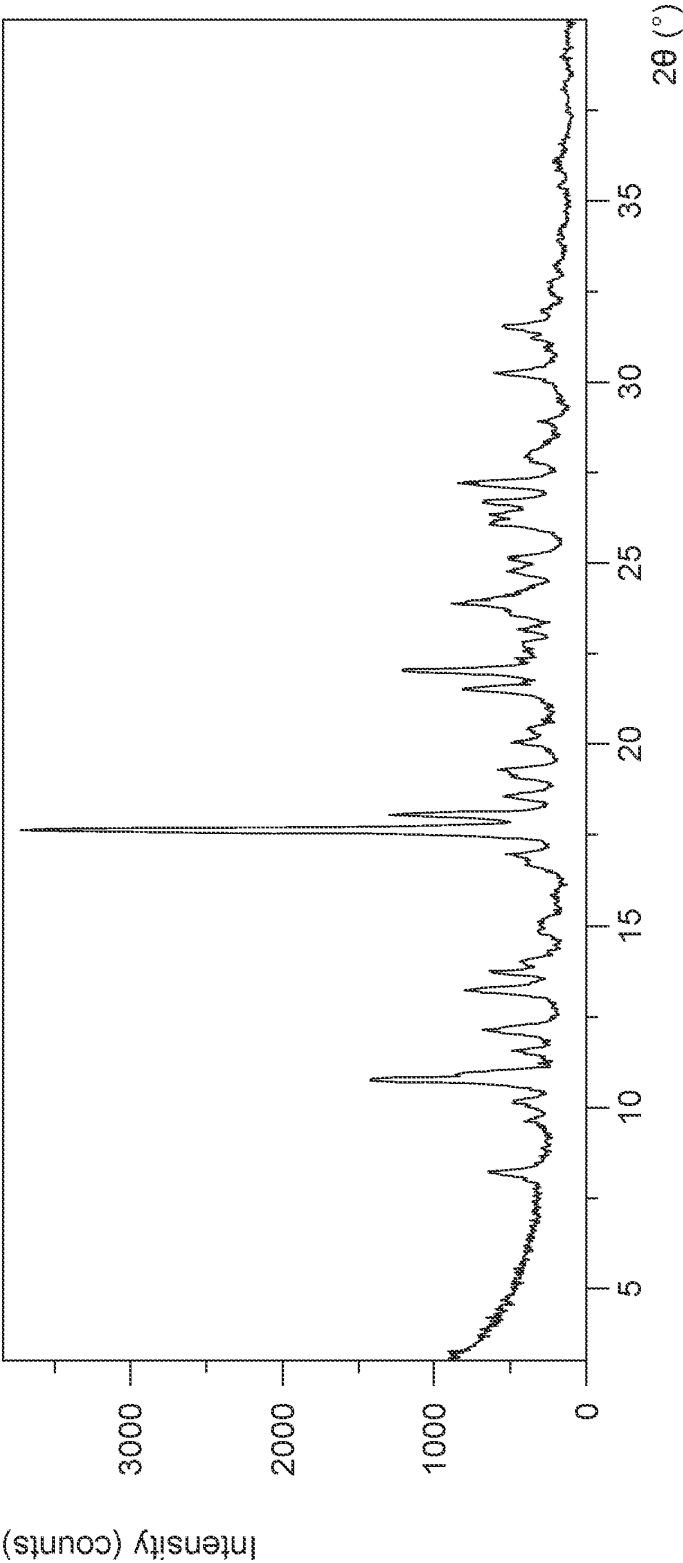


FIG. 17

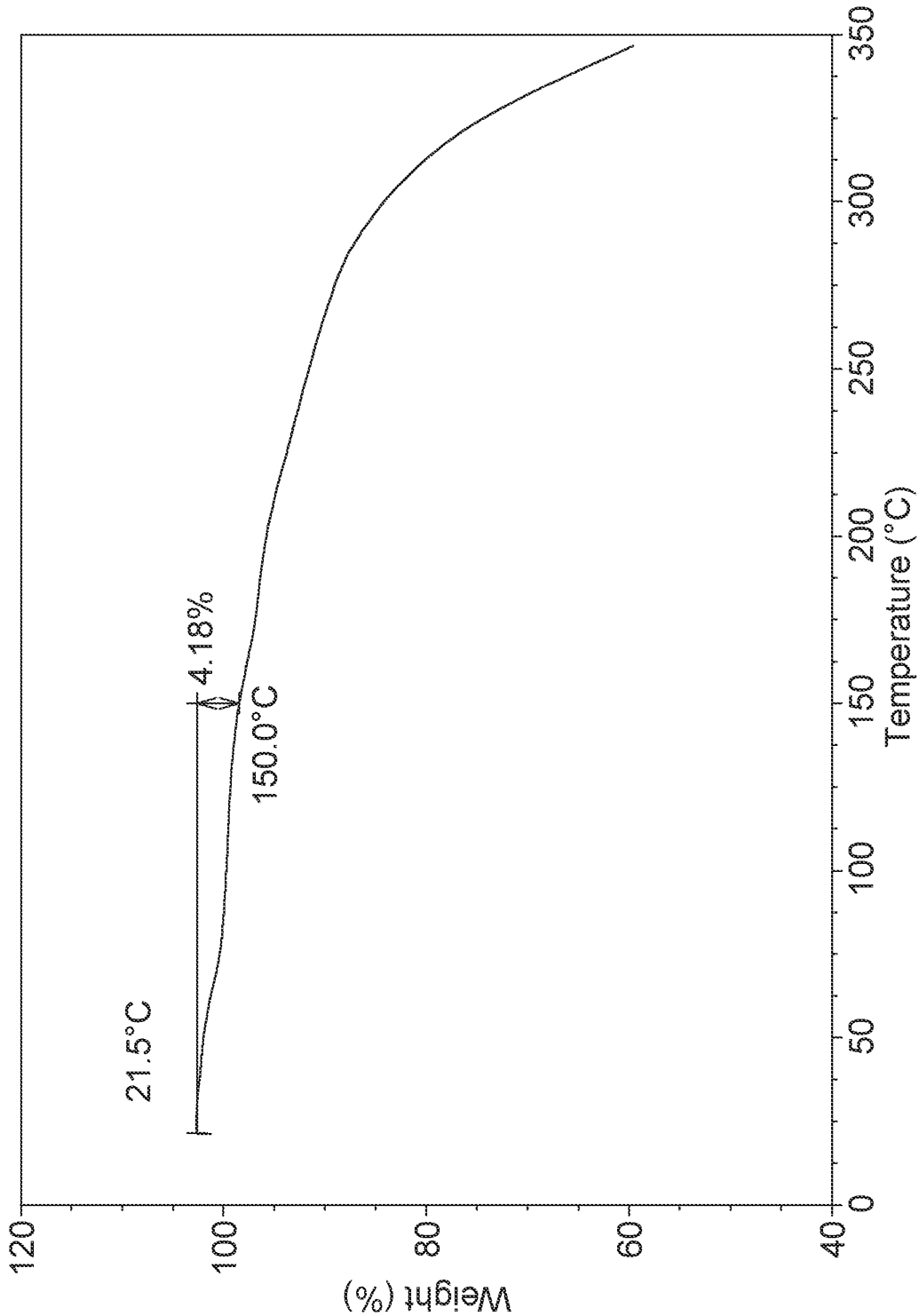


FIG. 18

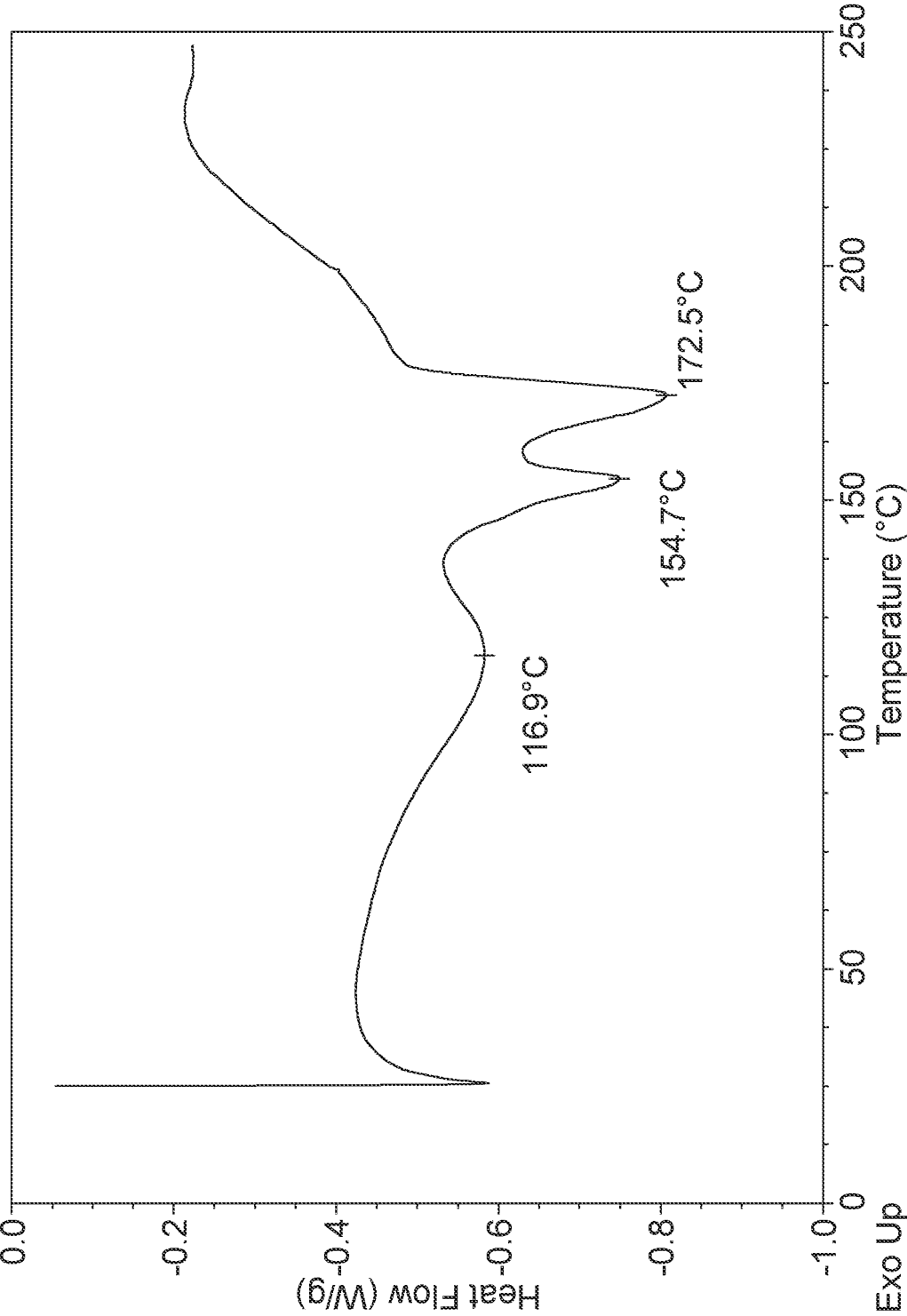


FIG. 19

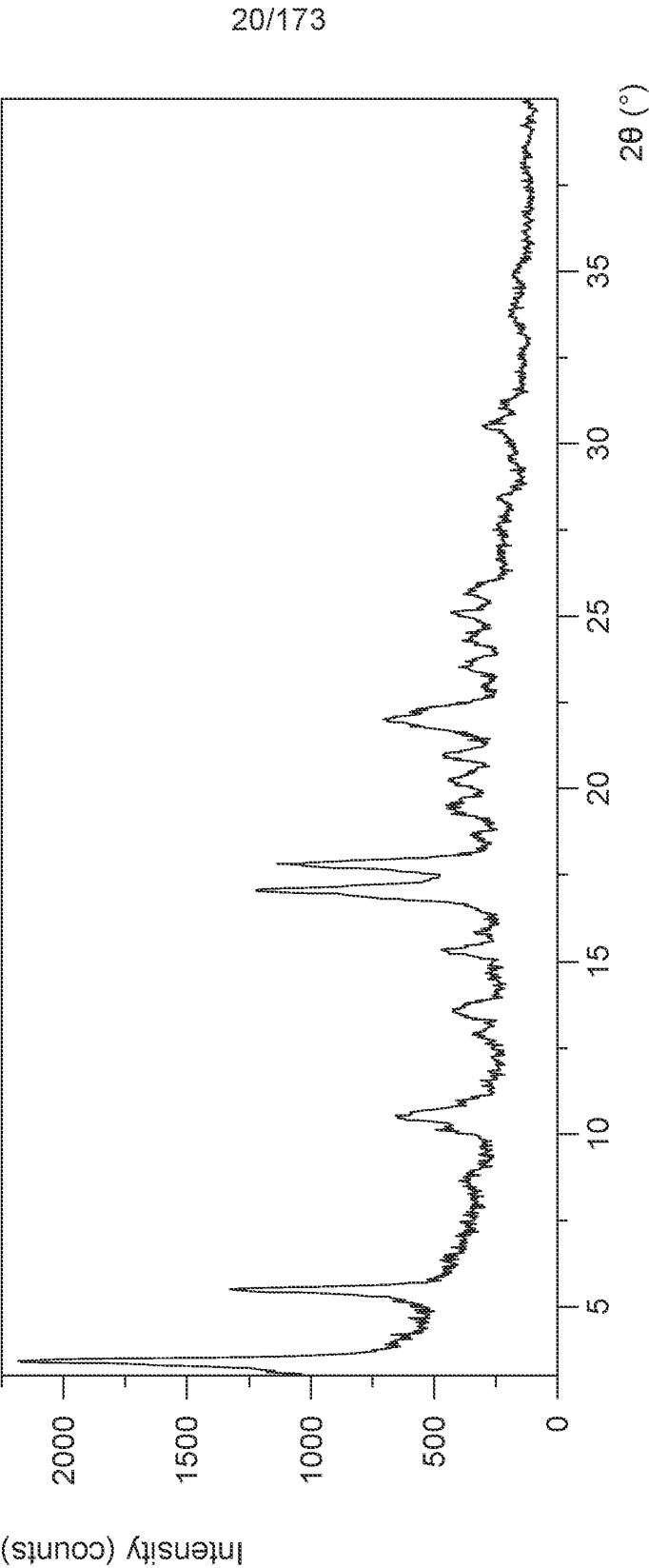


FIG. 20

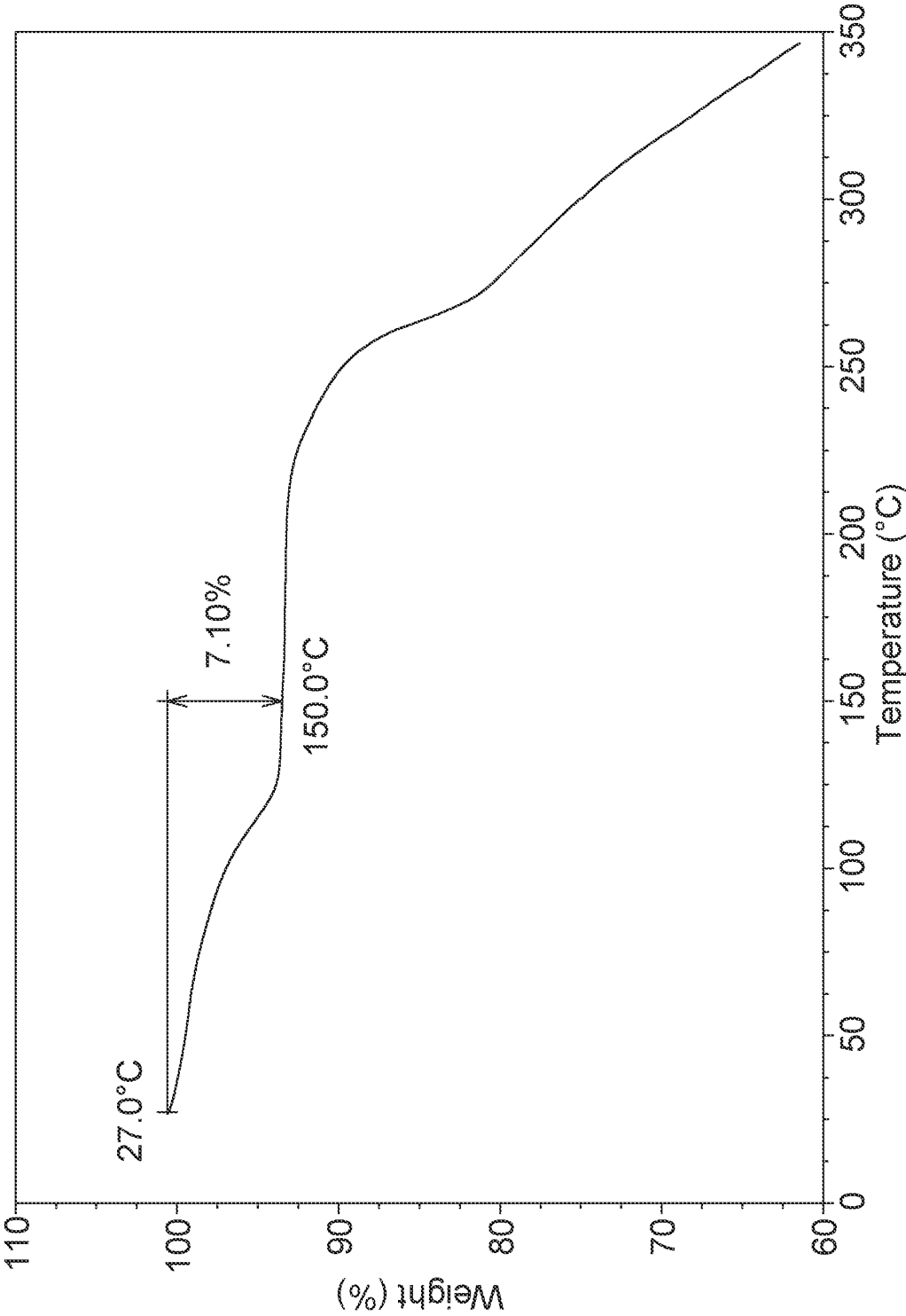


FIG. 21

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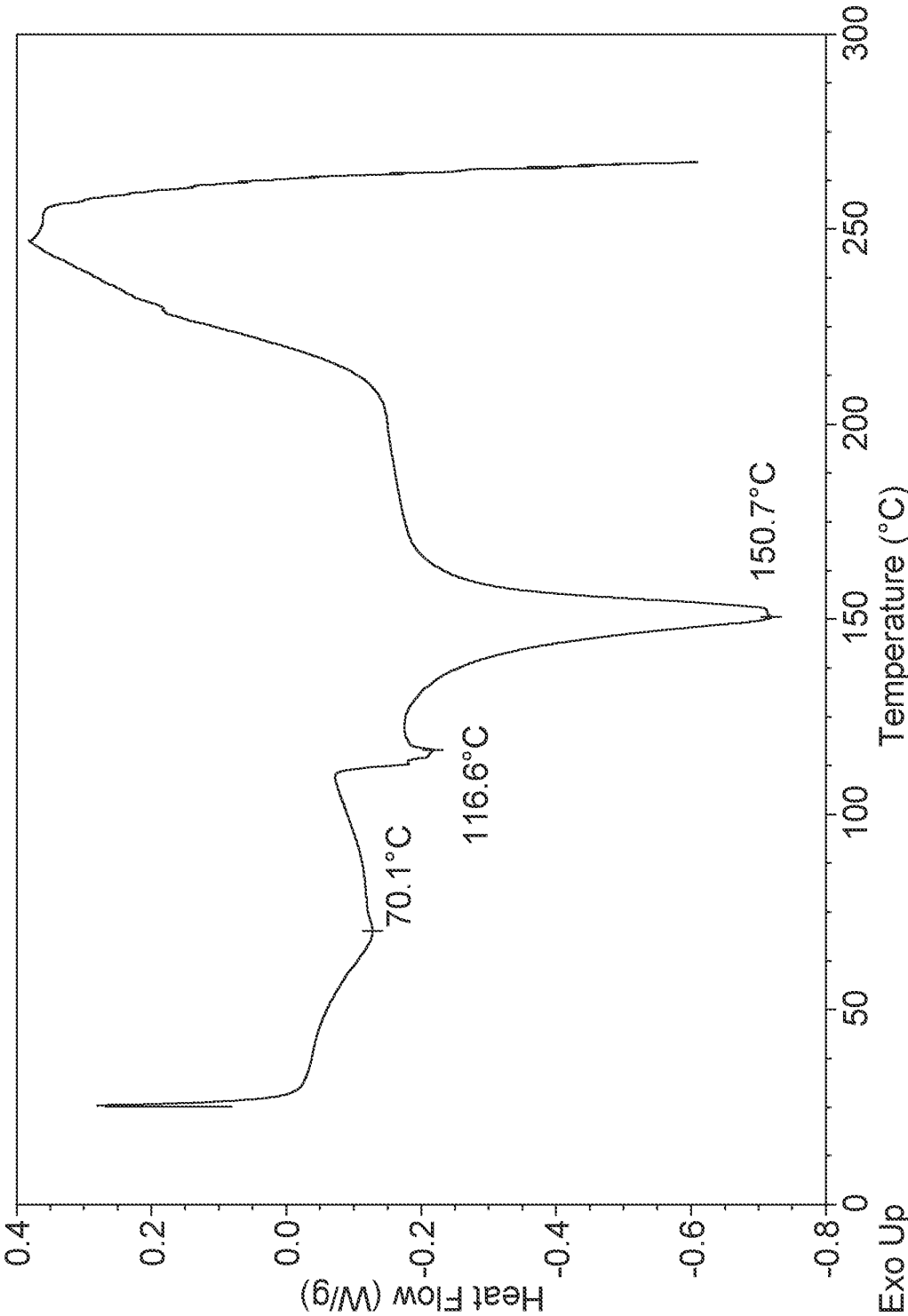


FIG. 22

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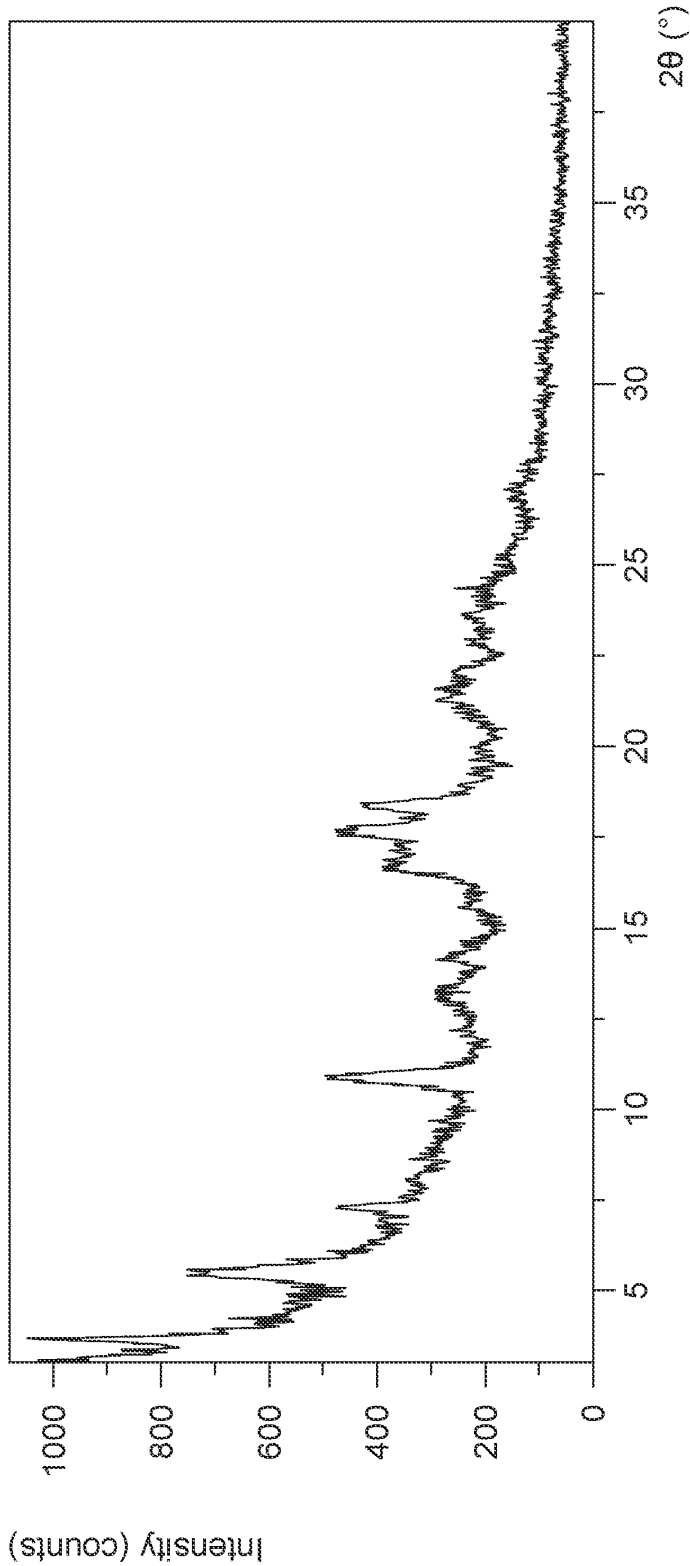


FIG. 23

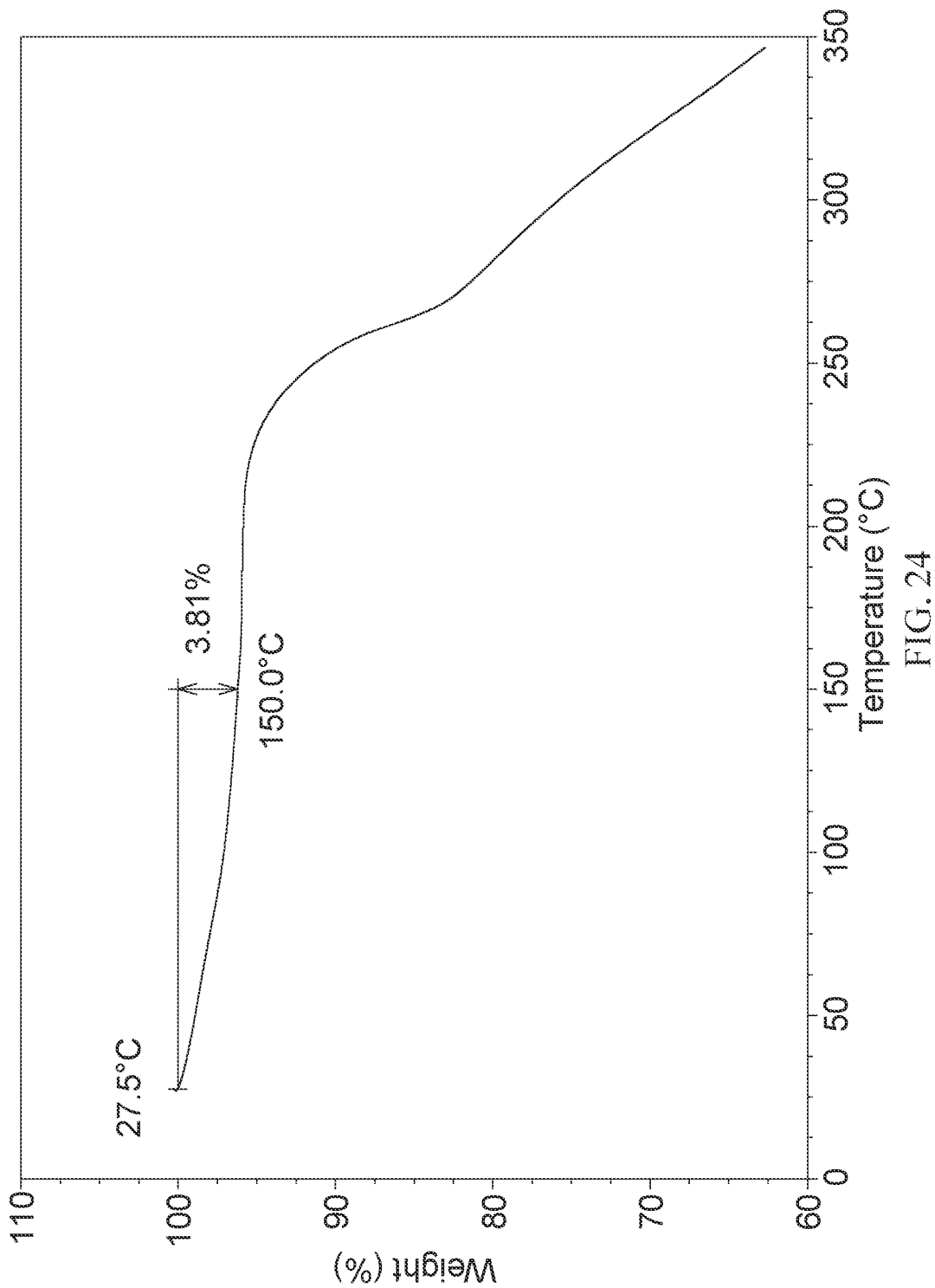


FIG. 24

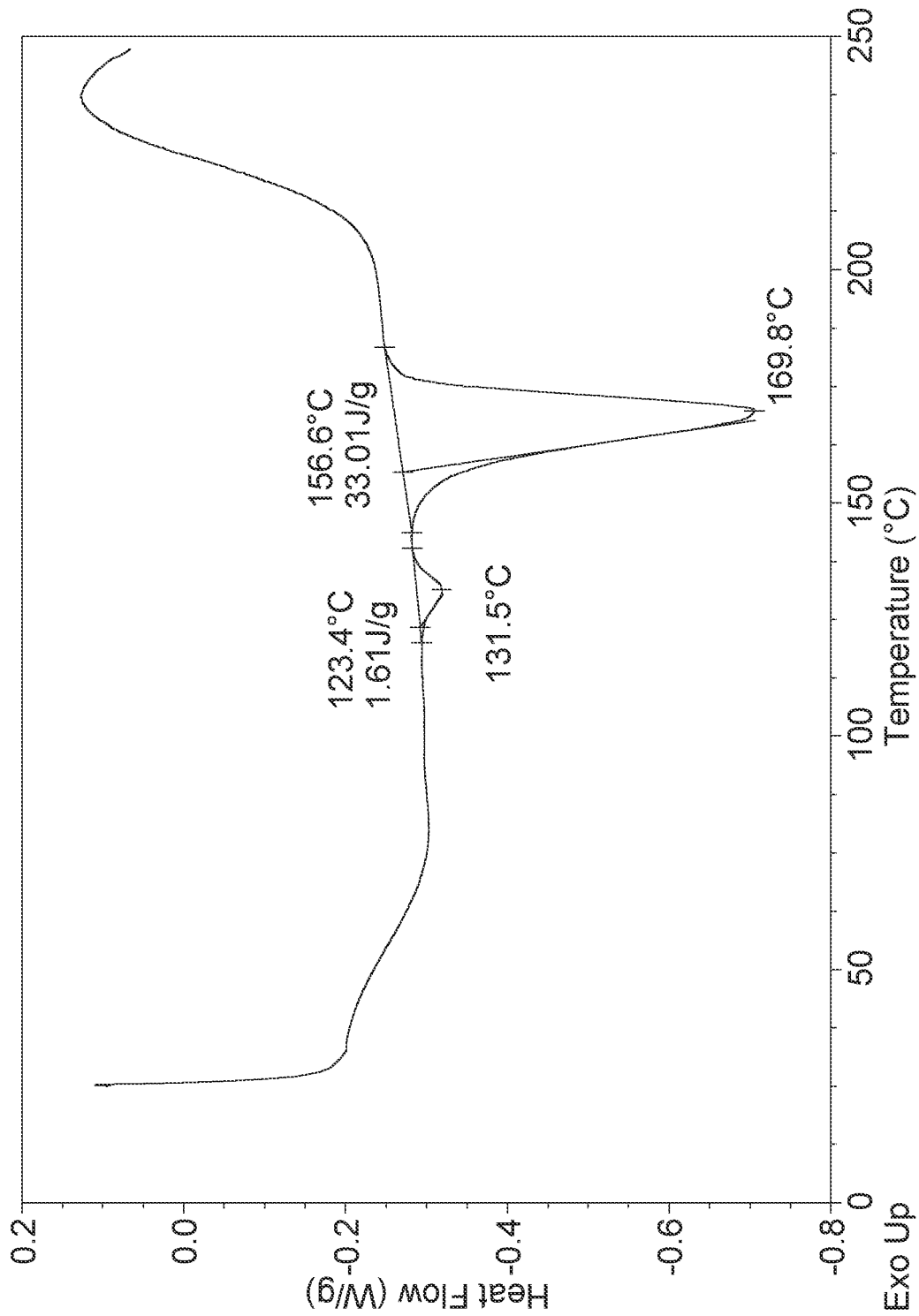


FIG. 25

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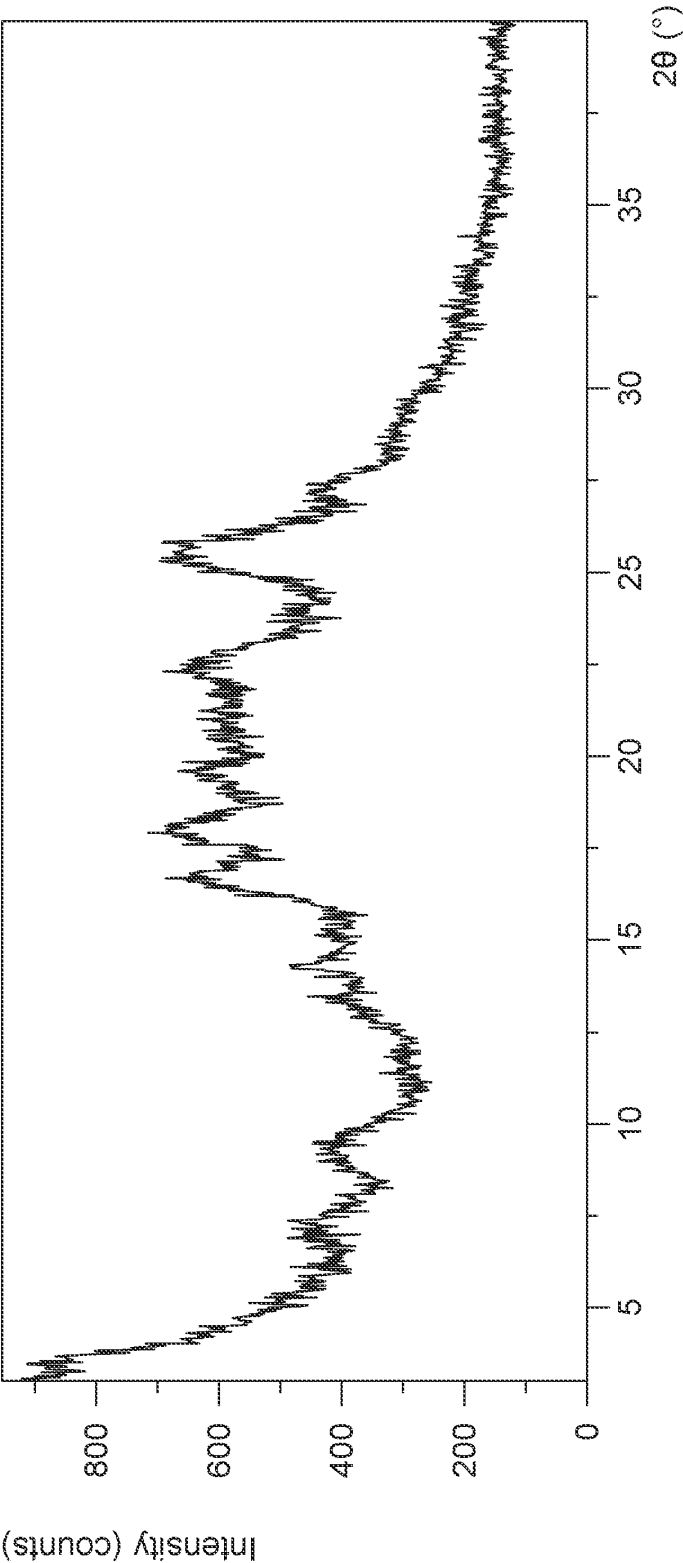


FIG. 26

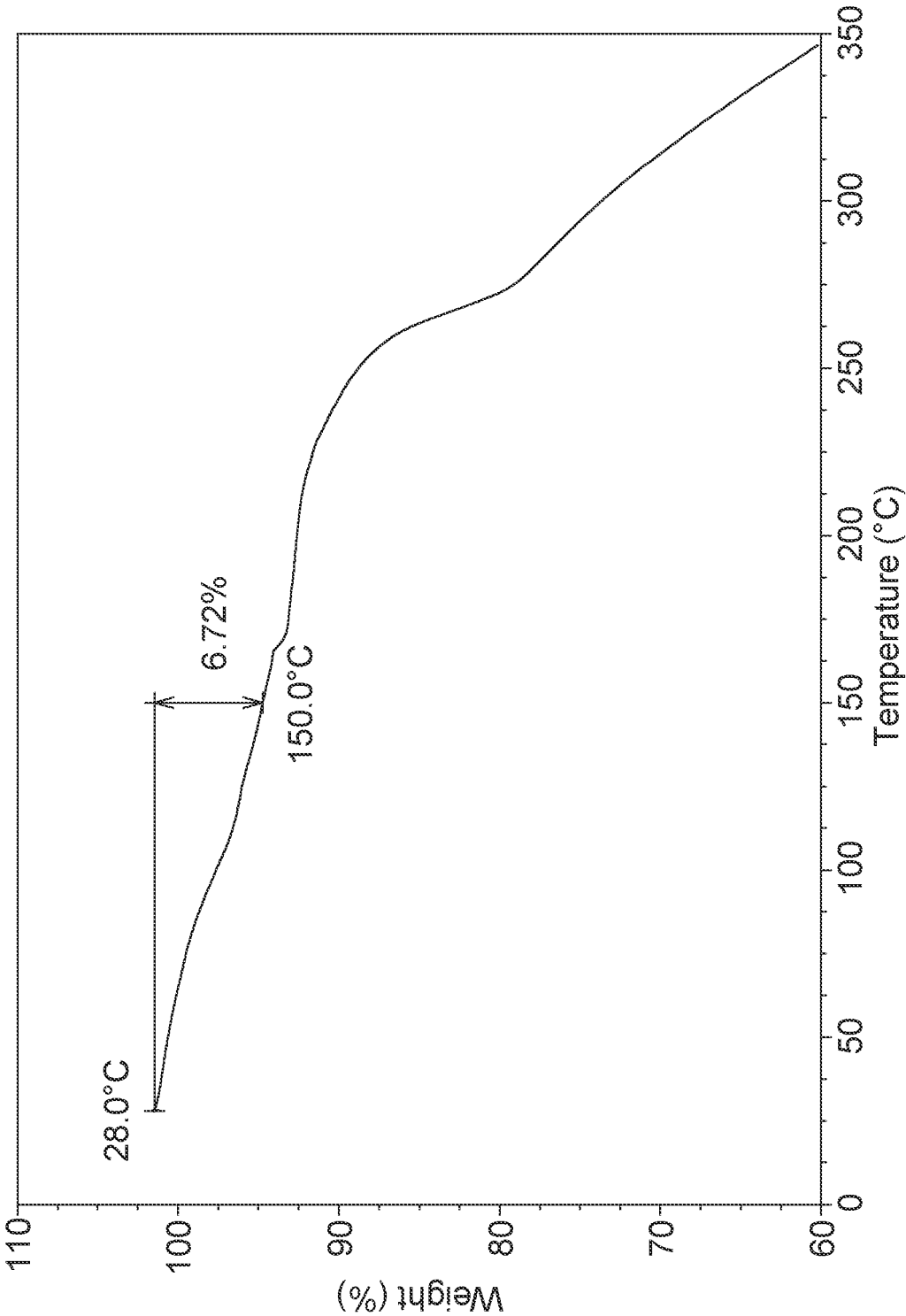


FIG. 27

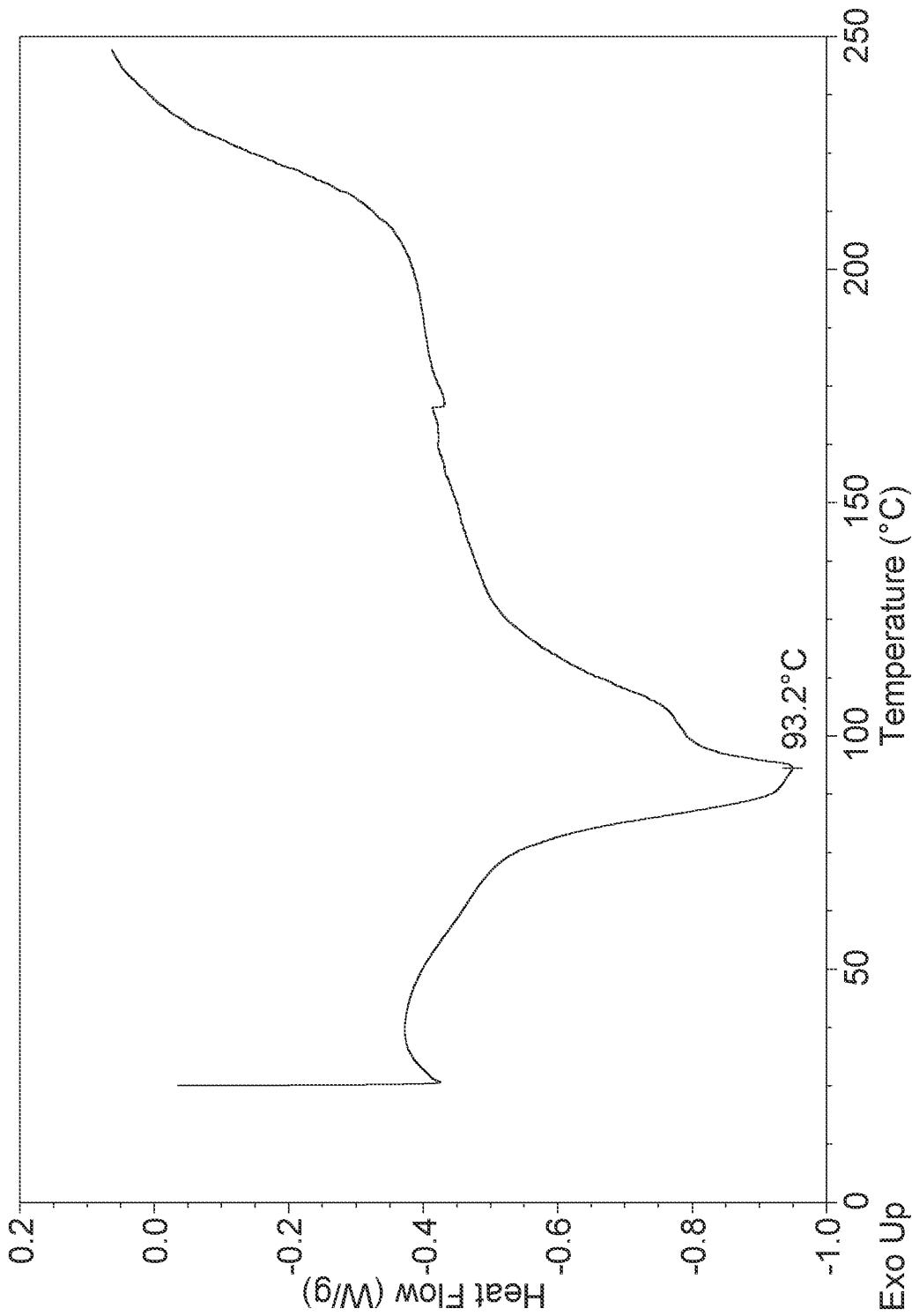


FIG. 28

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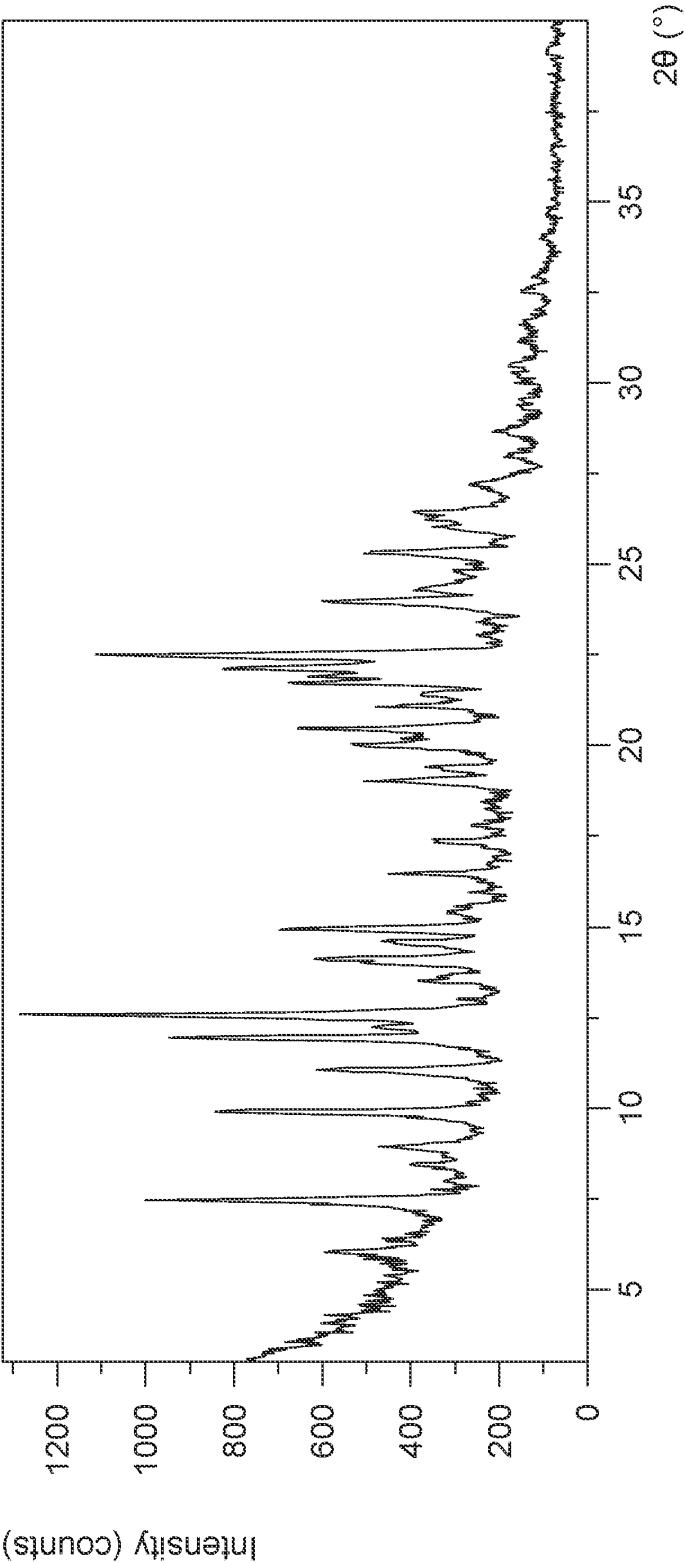


FIG. 29

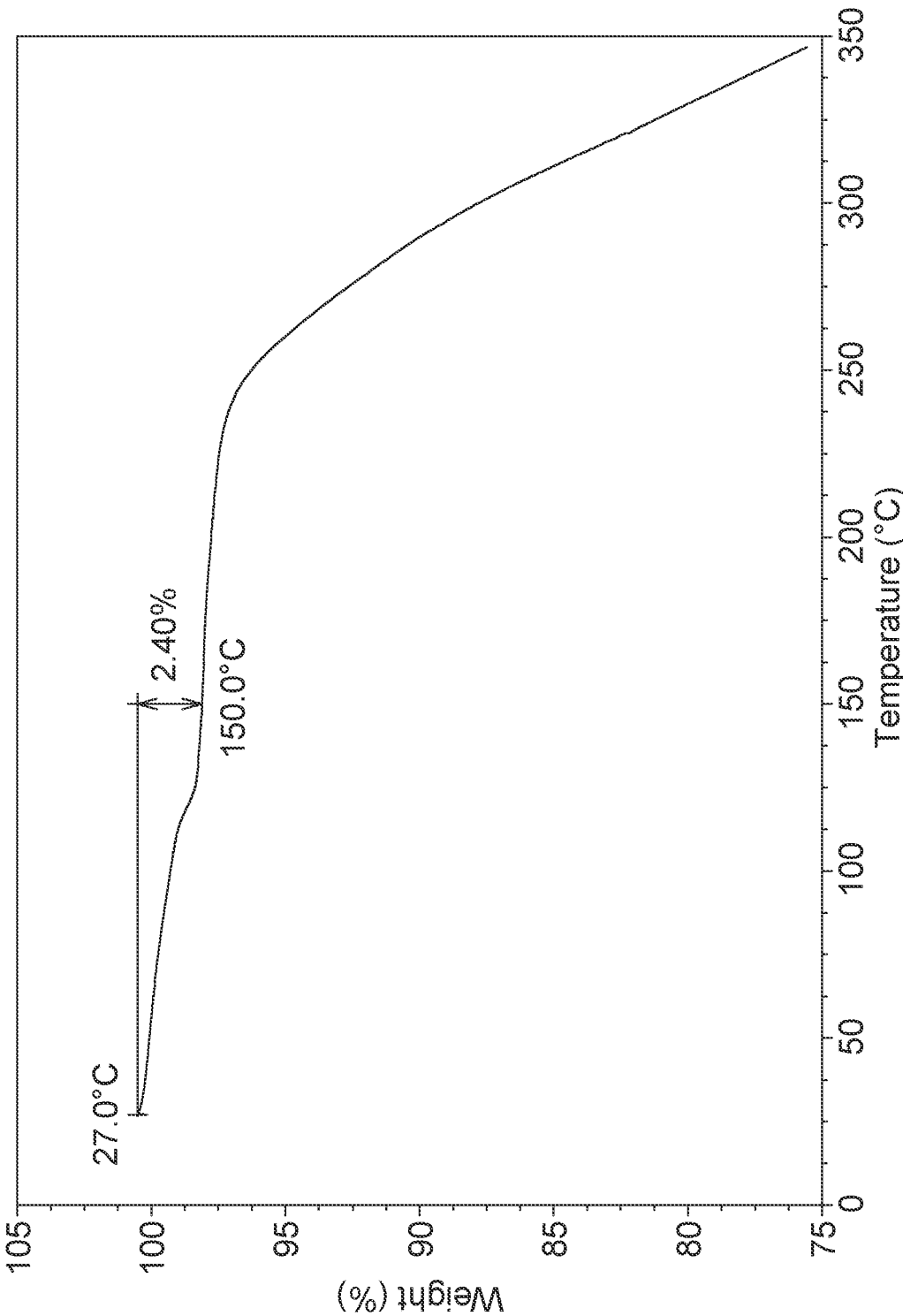


FIG. 30

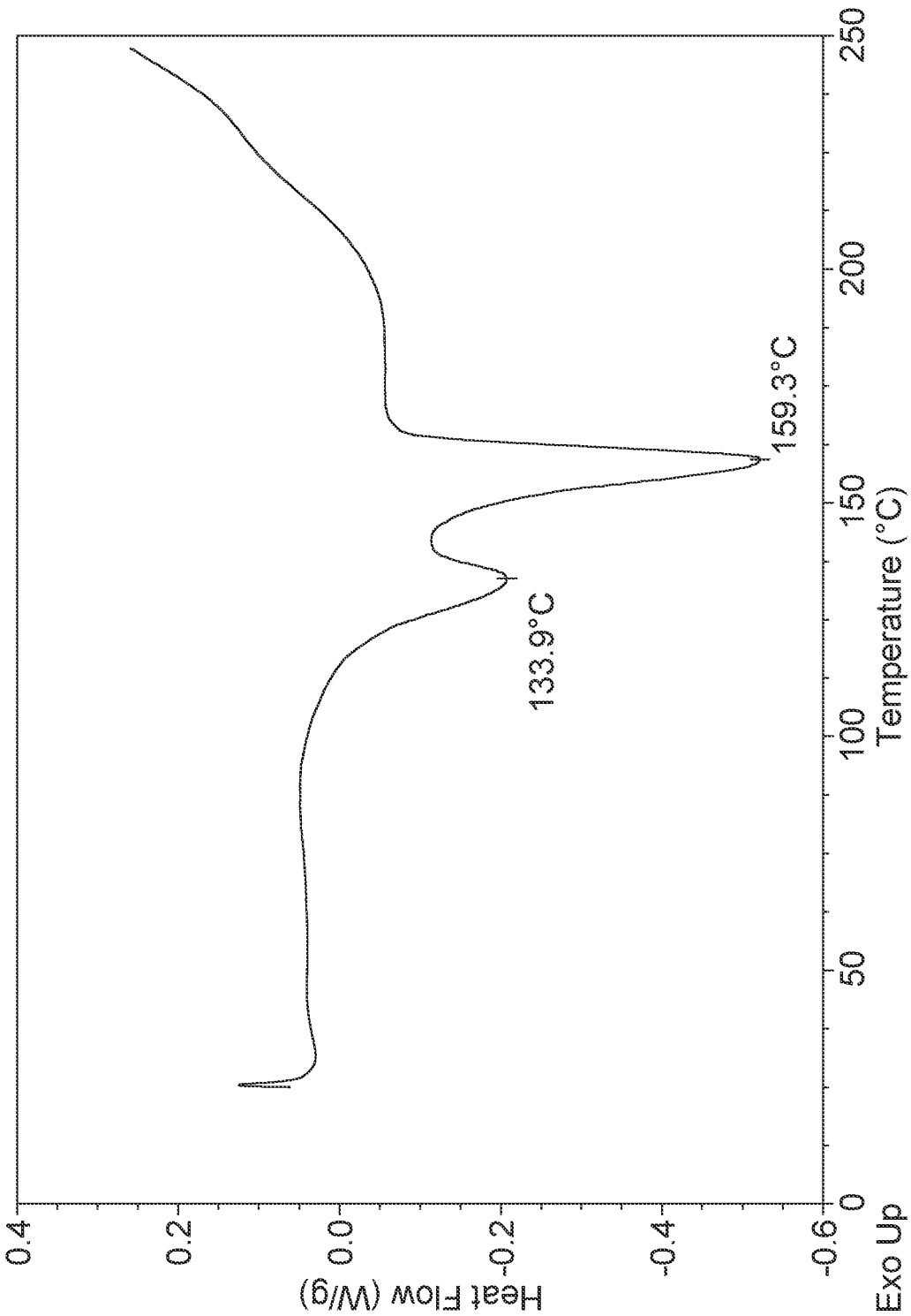


FIG. 31

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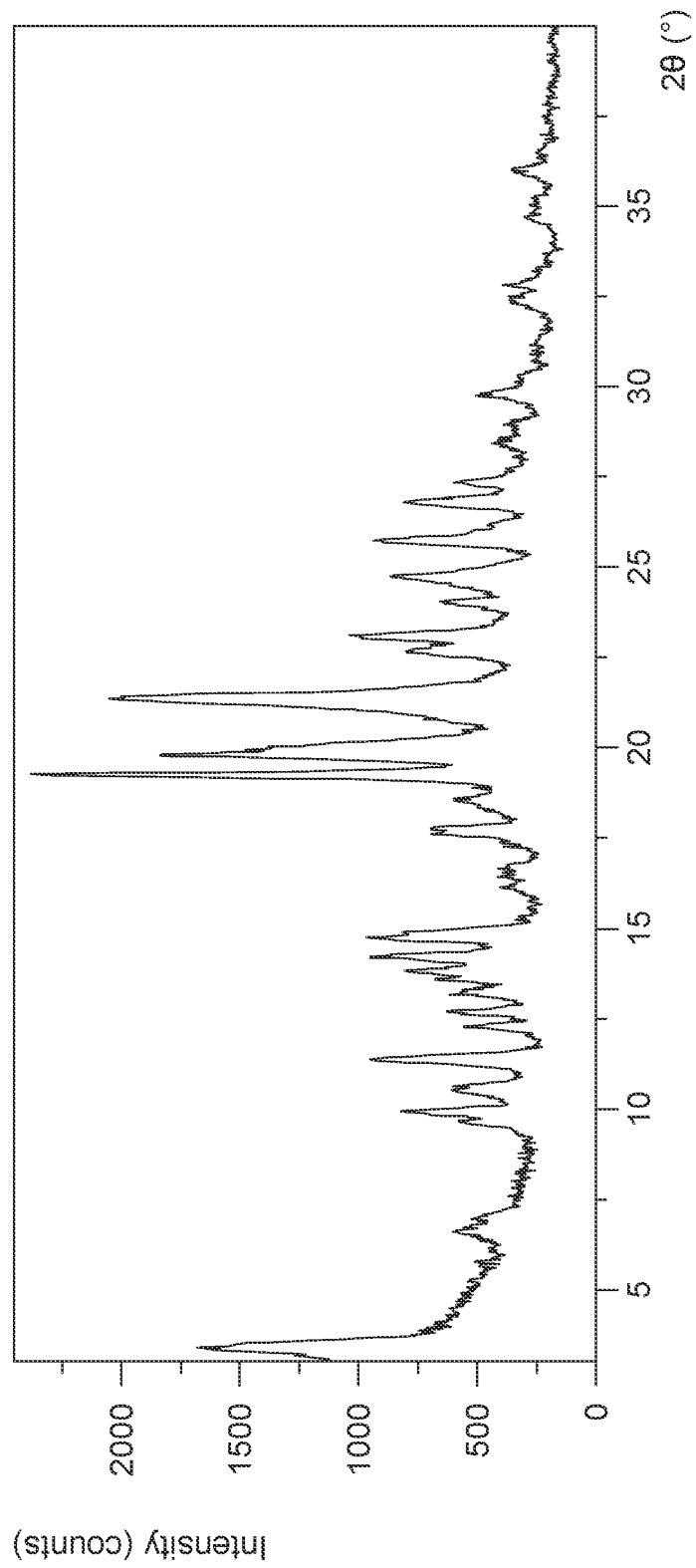


FIG. 32

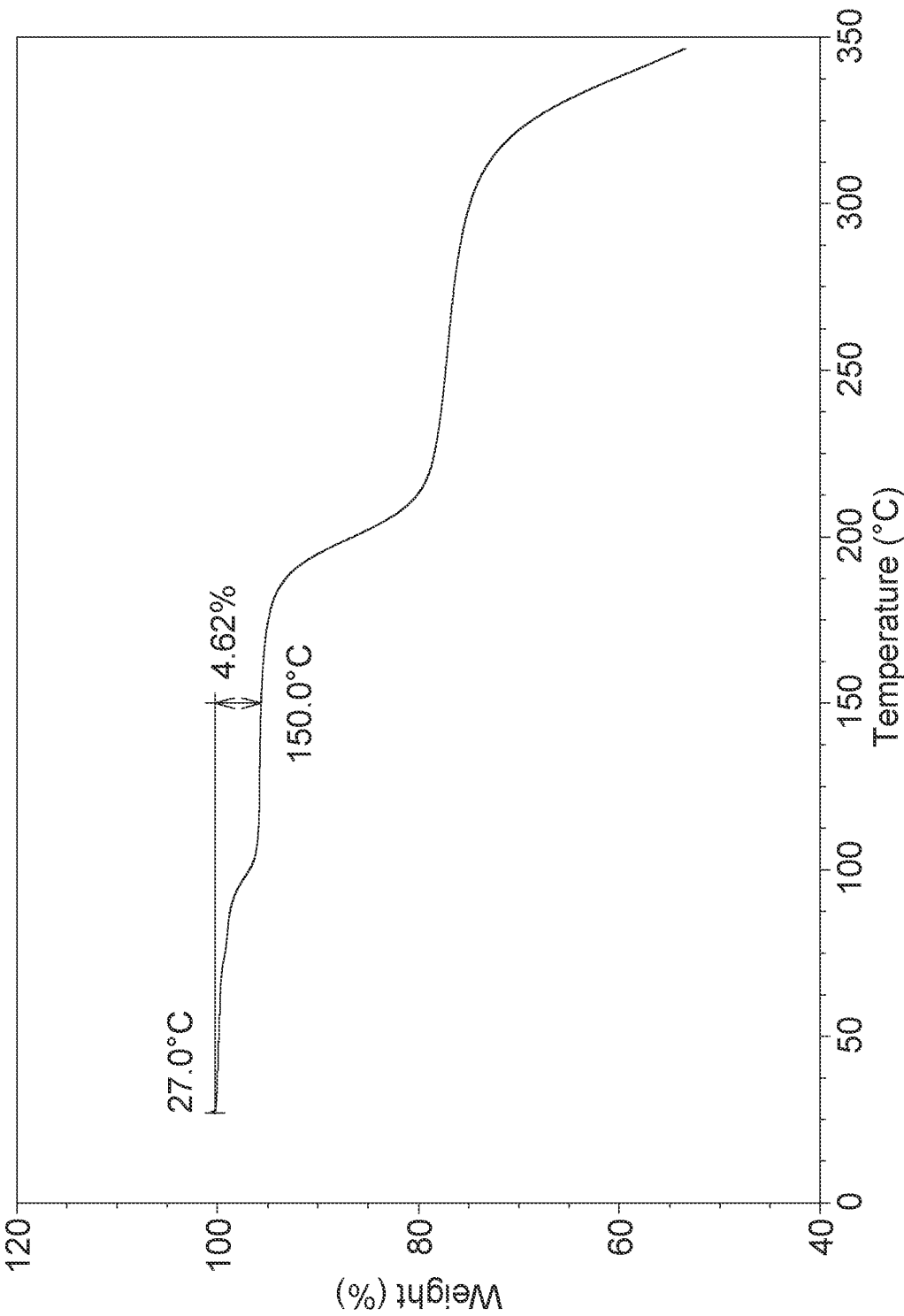
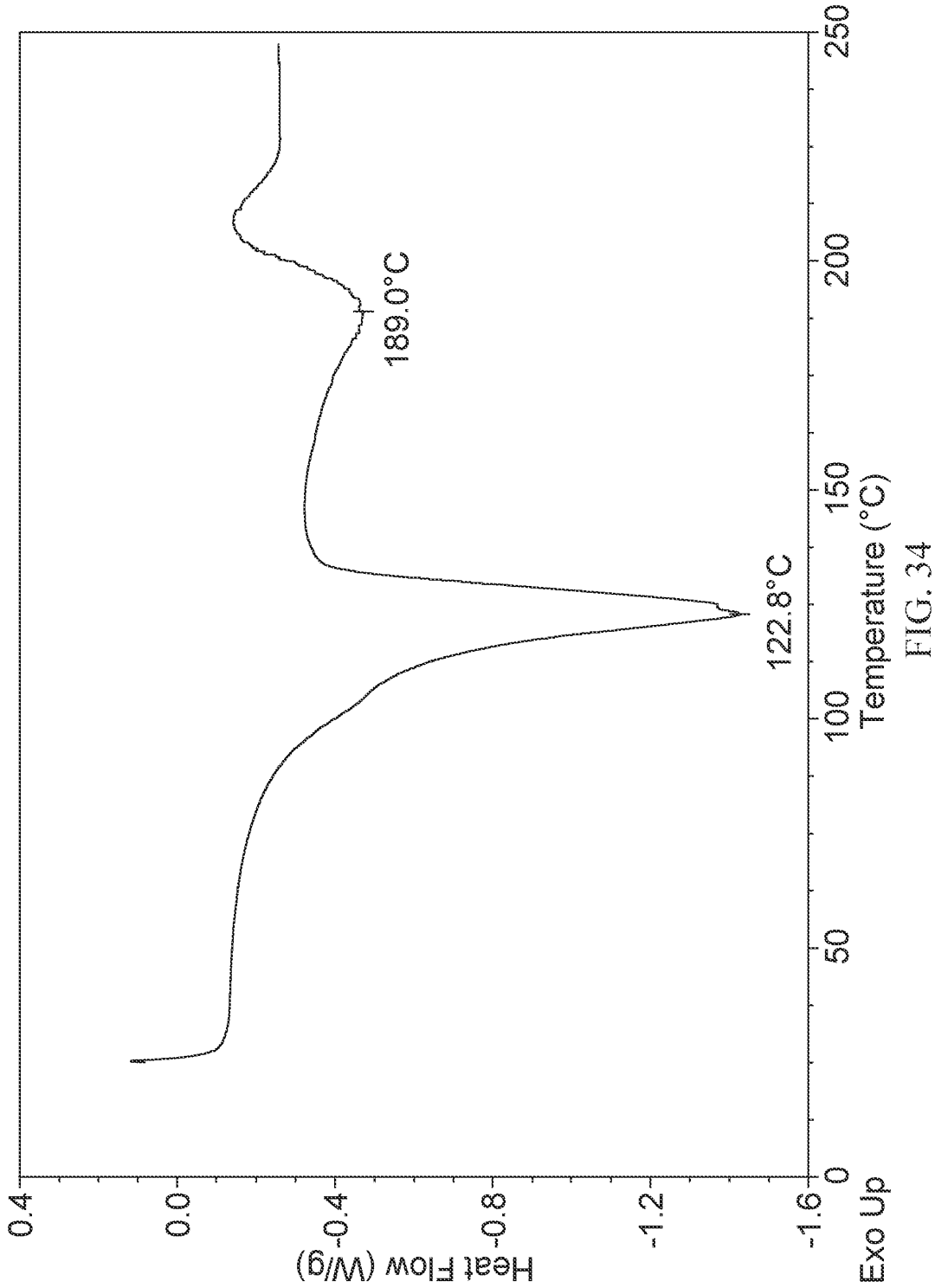


FIG. 33



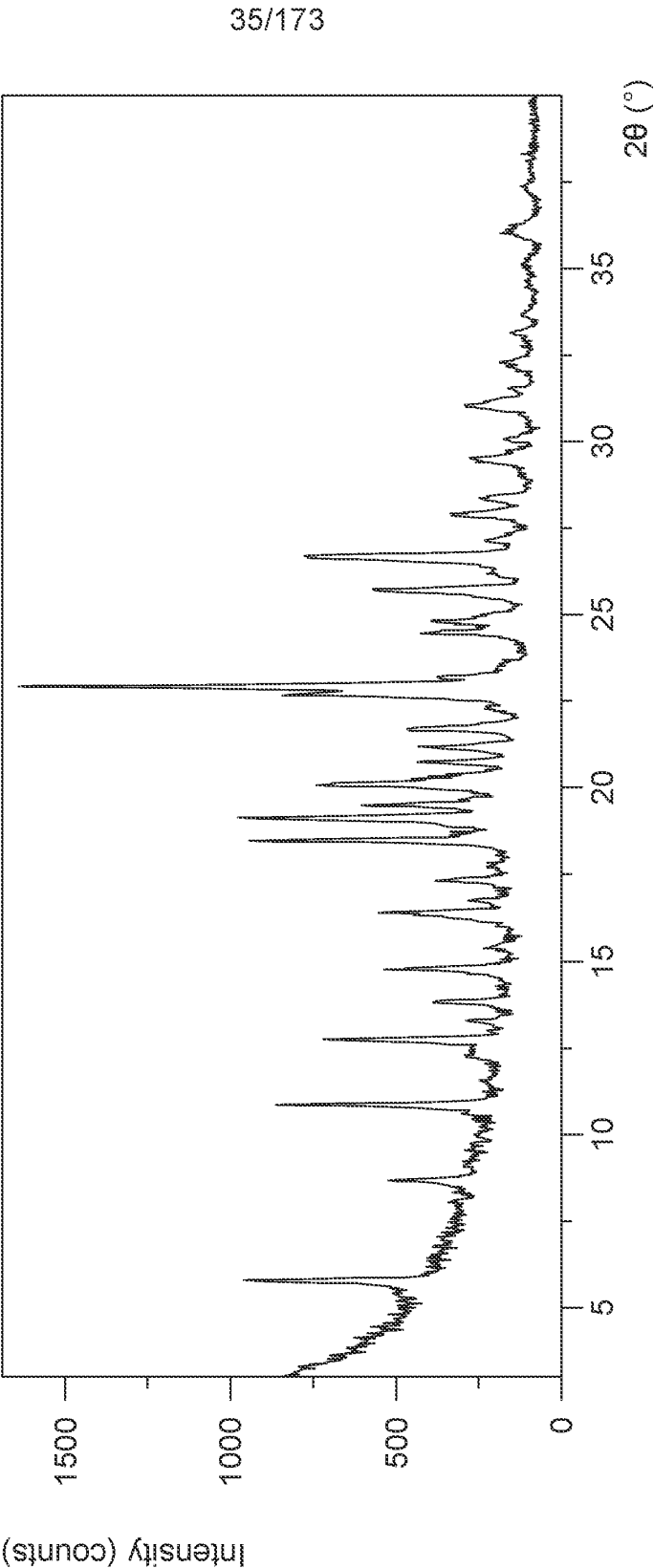


FIG. 35

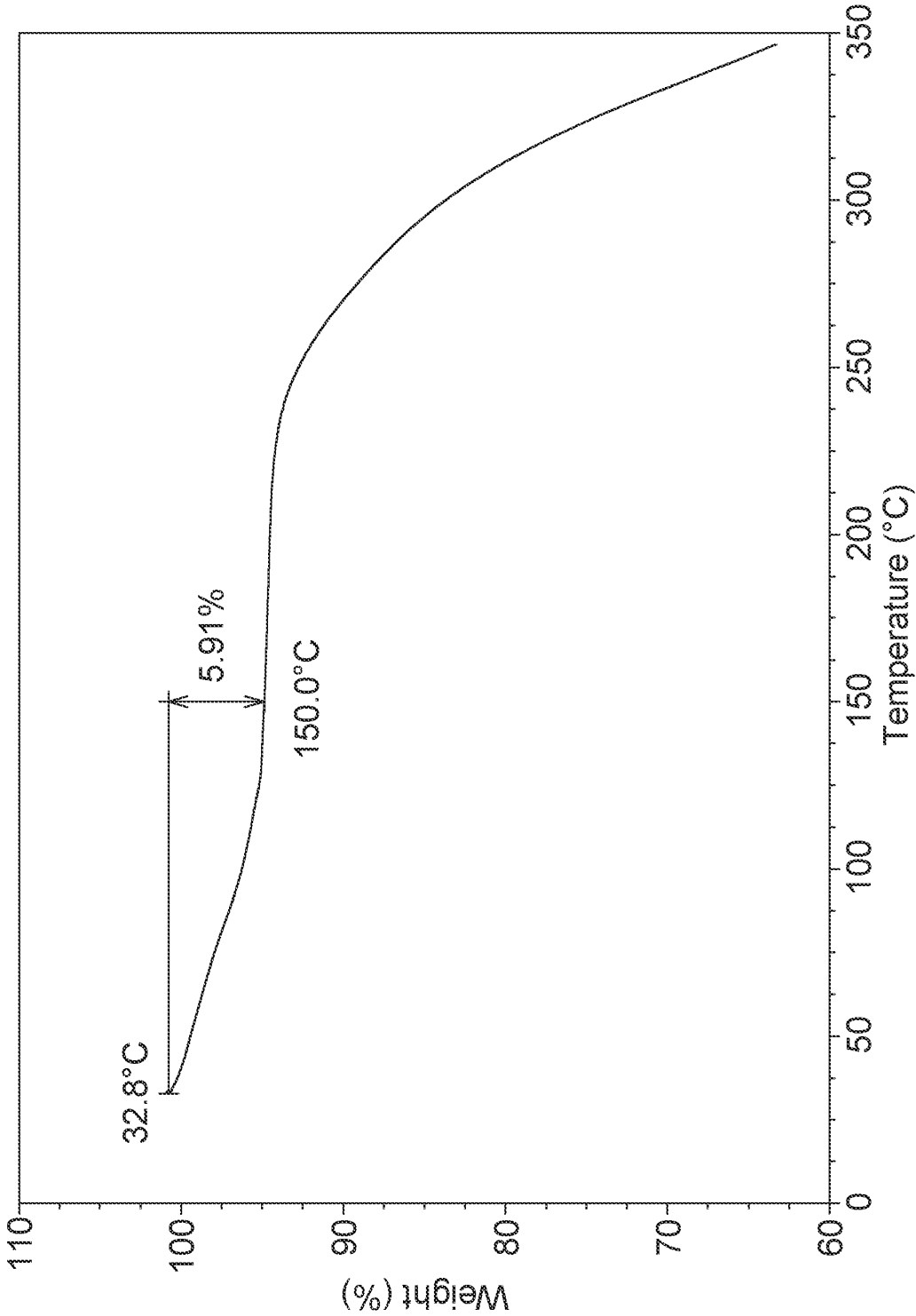
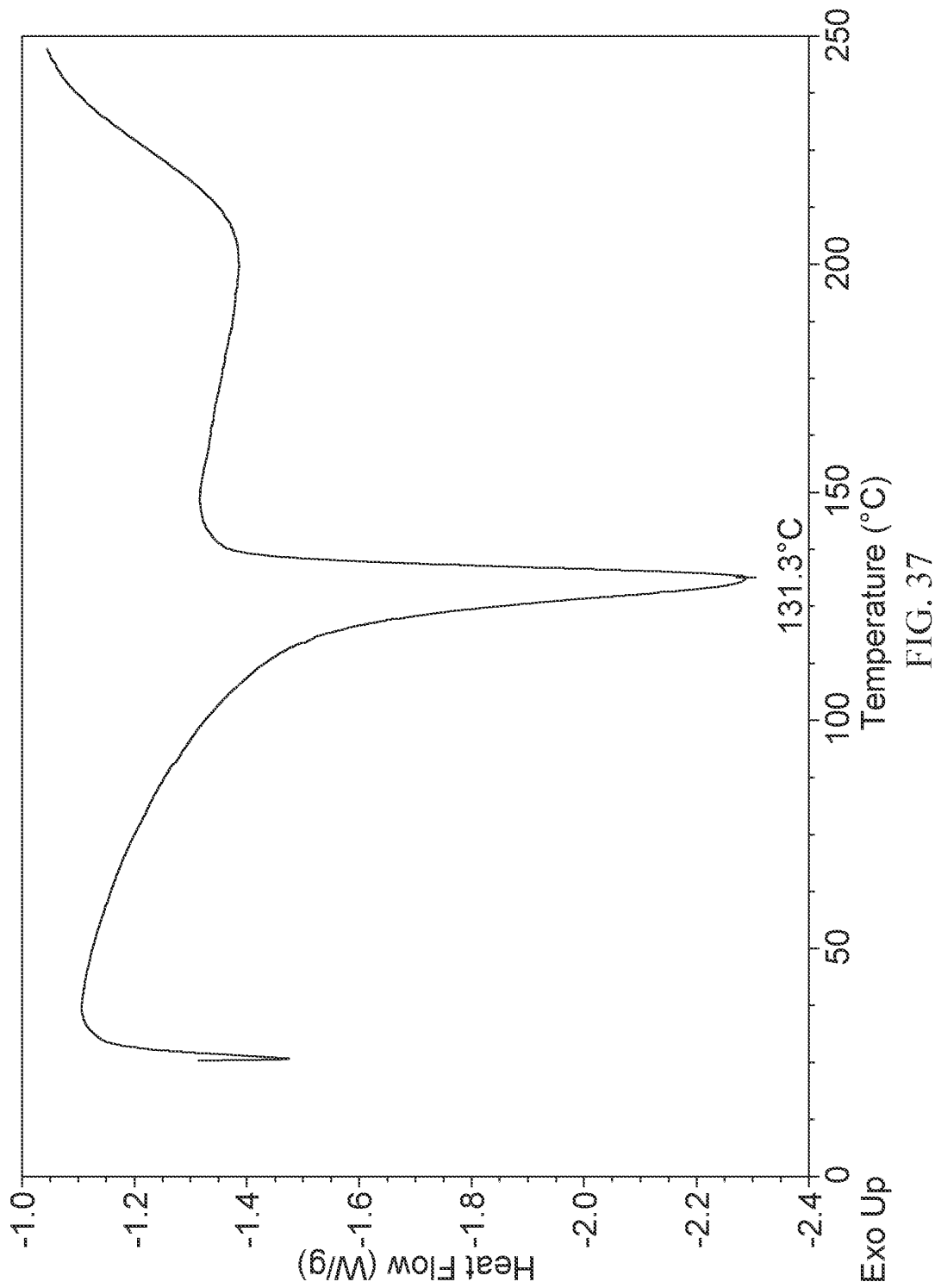


FIG. 36

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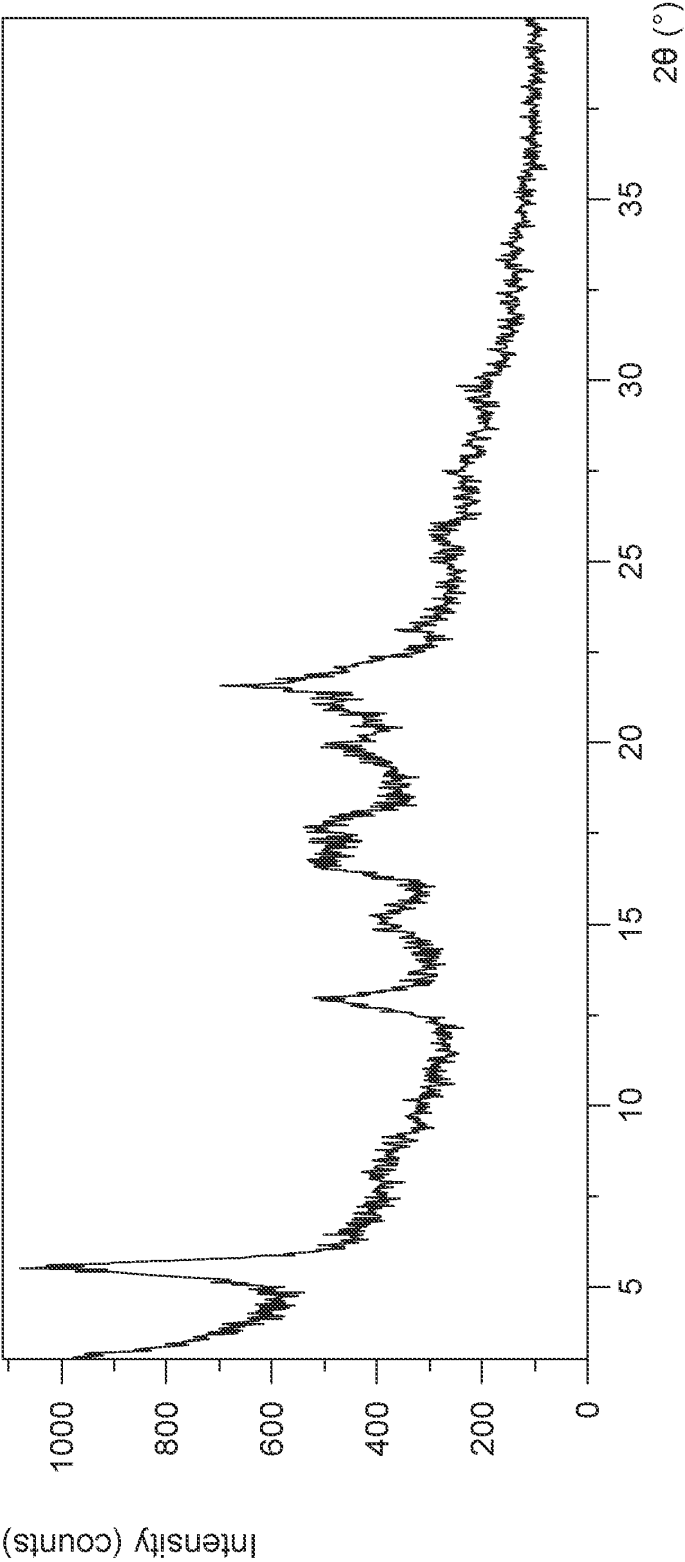


FIG. 38

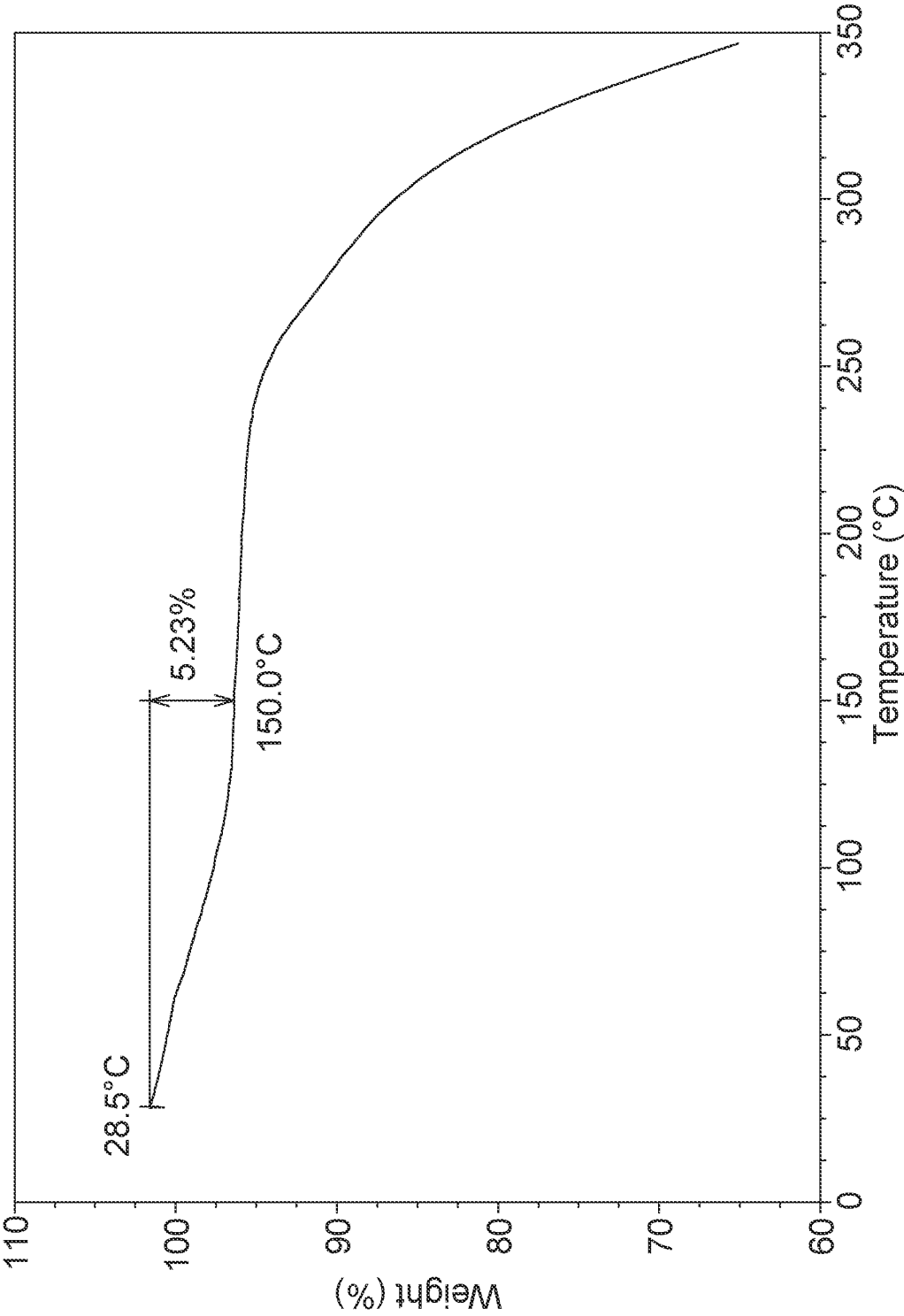


FIG. 39

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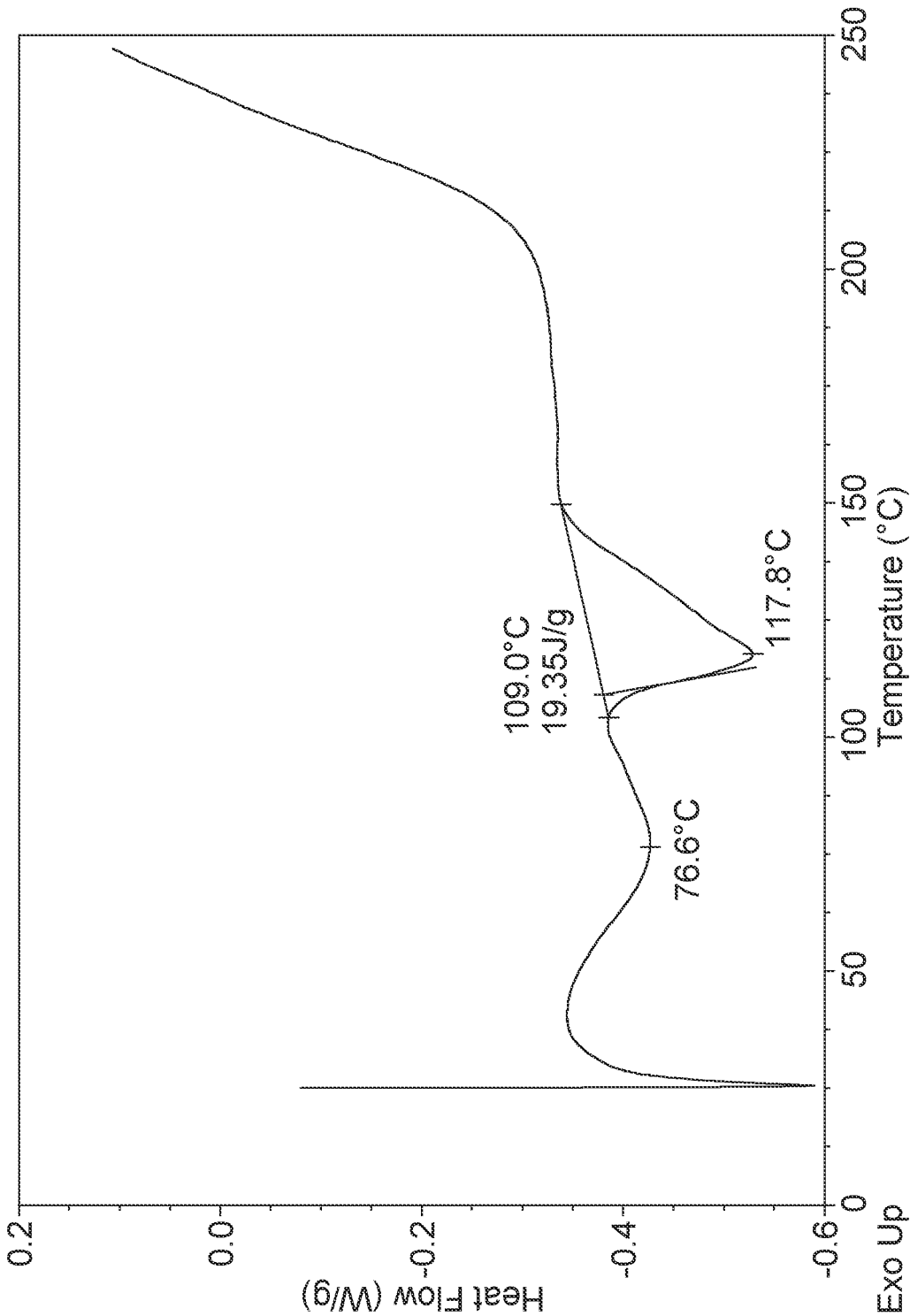


FIG. 40

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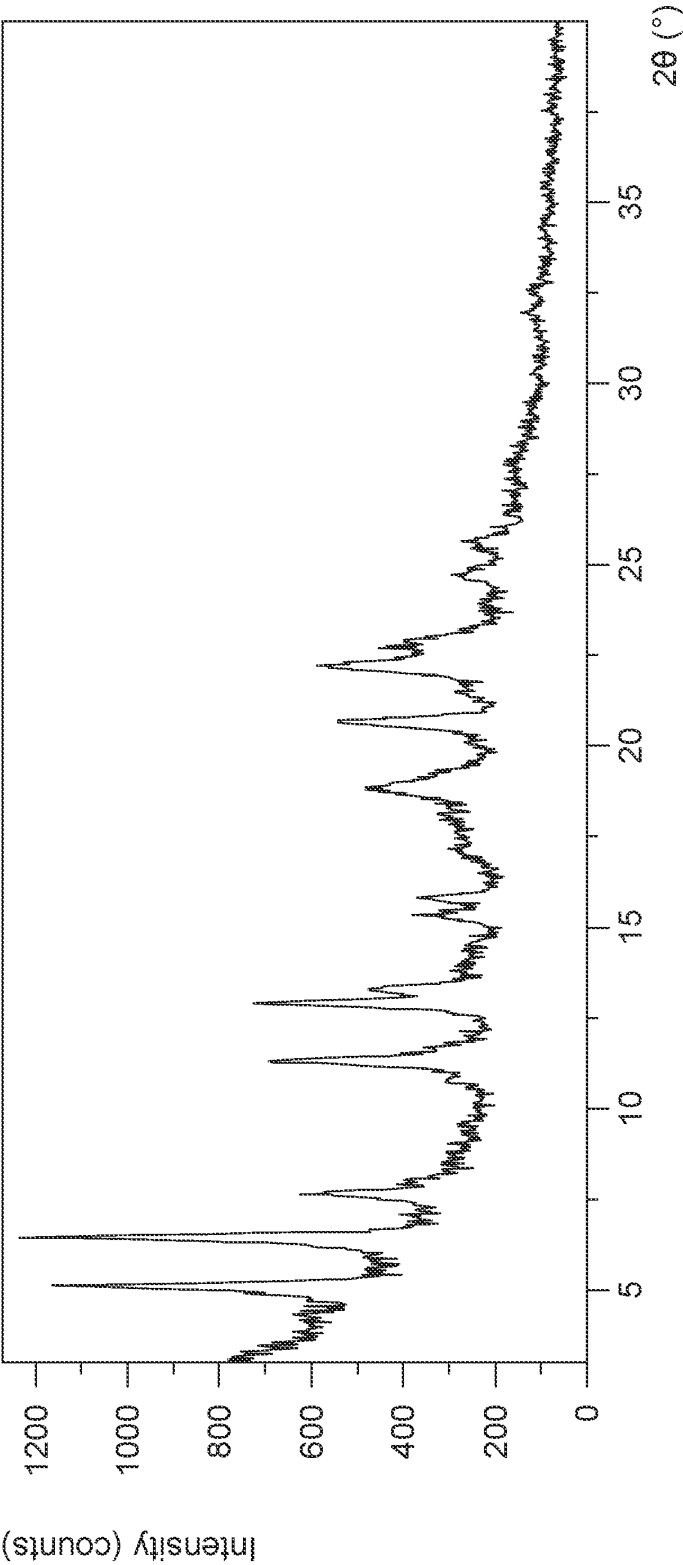


FIG. 41

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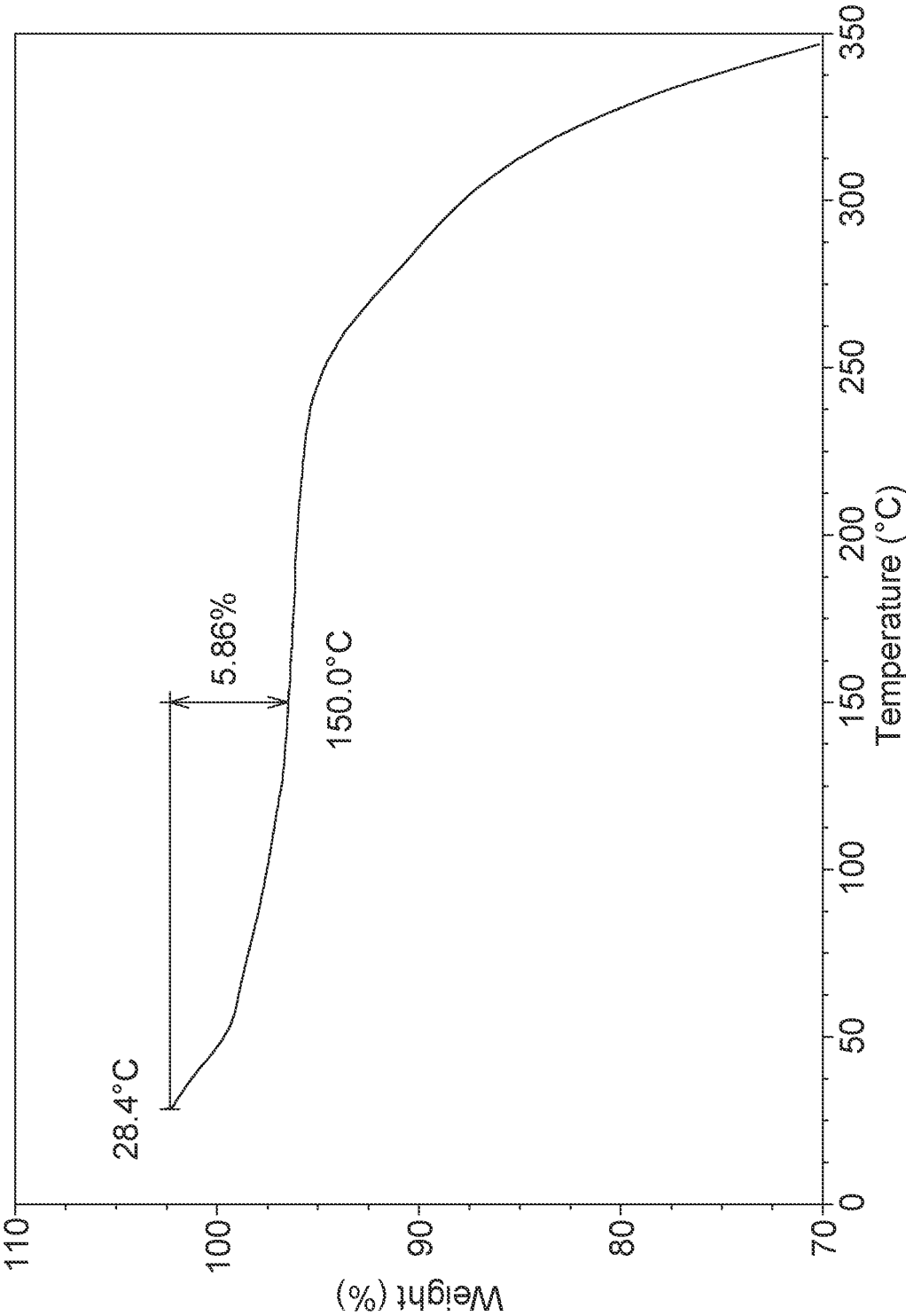


FIG. 42

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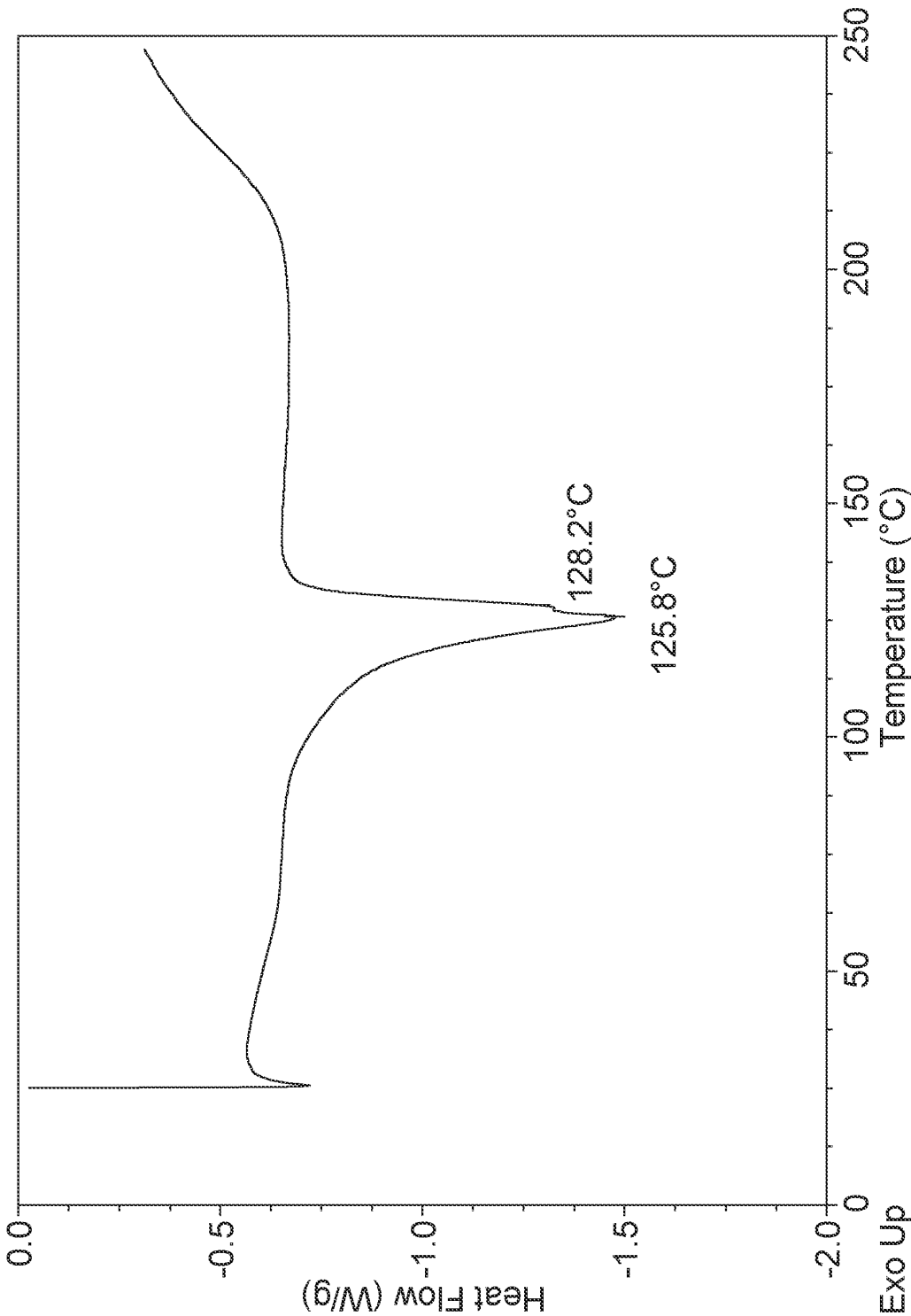


FIG. 43

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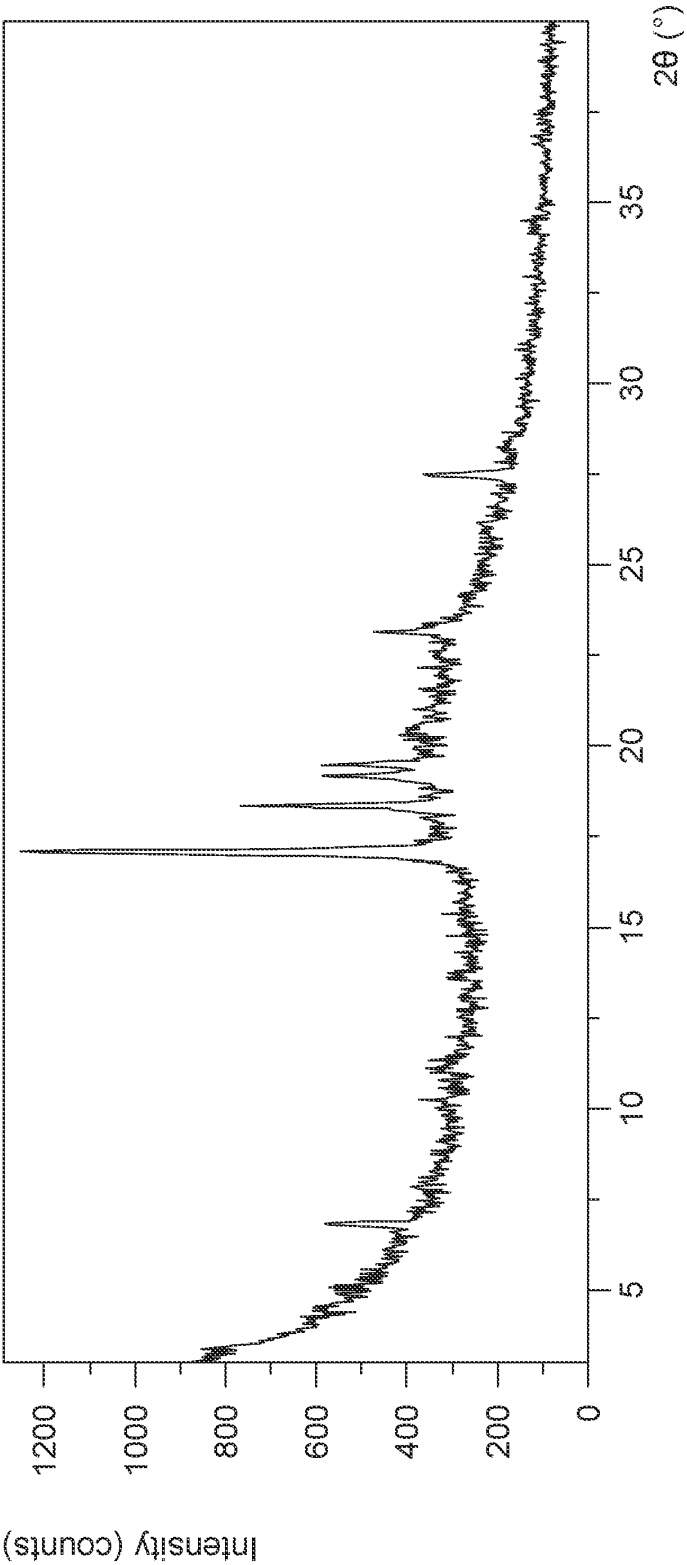


FIG. 44

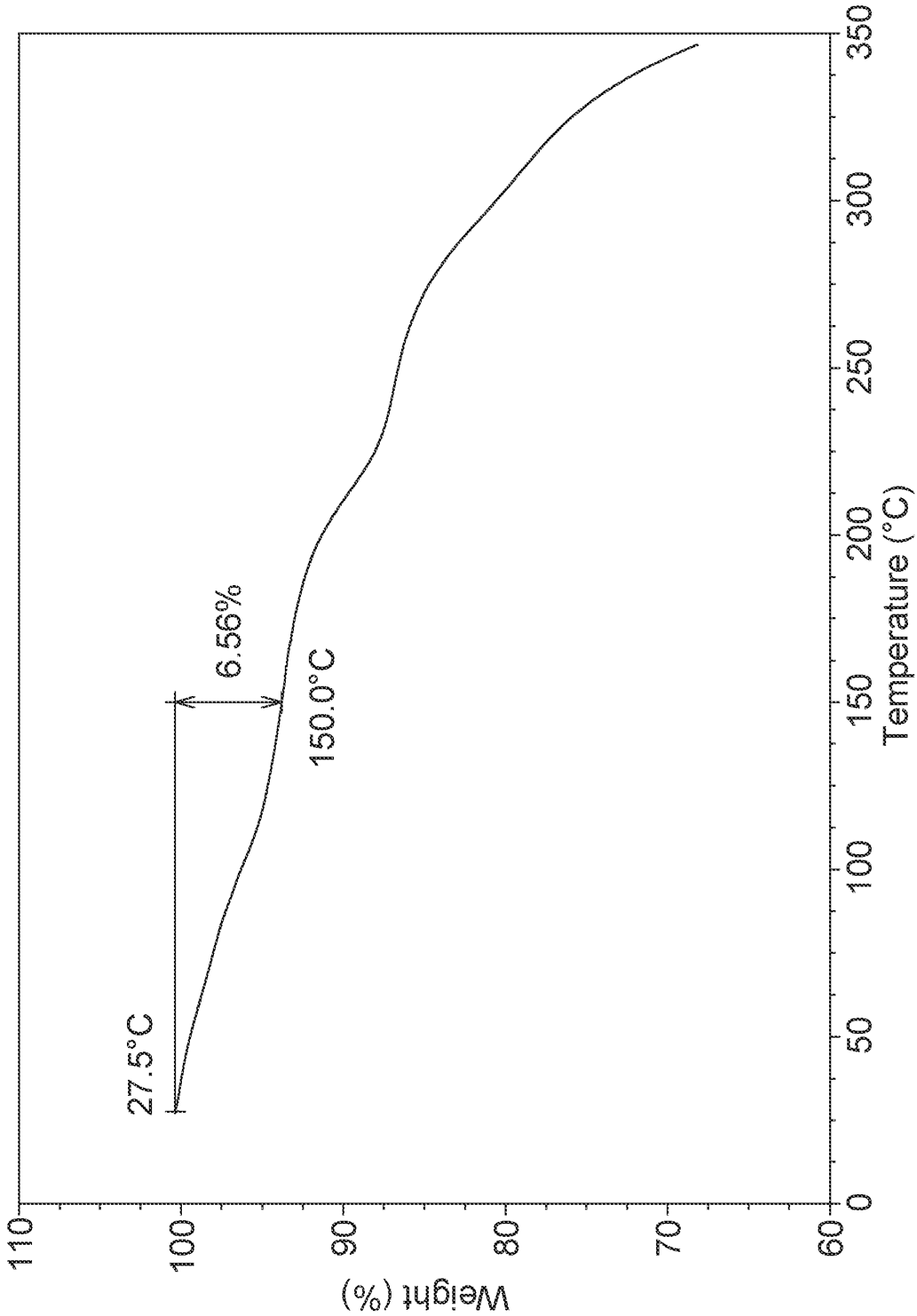


FIG. 45

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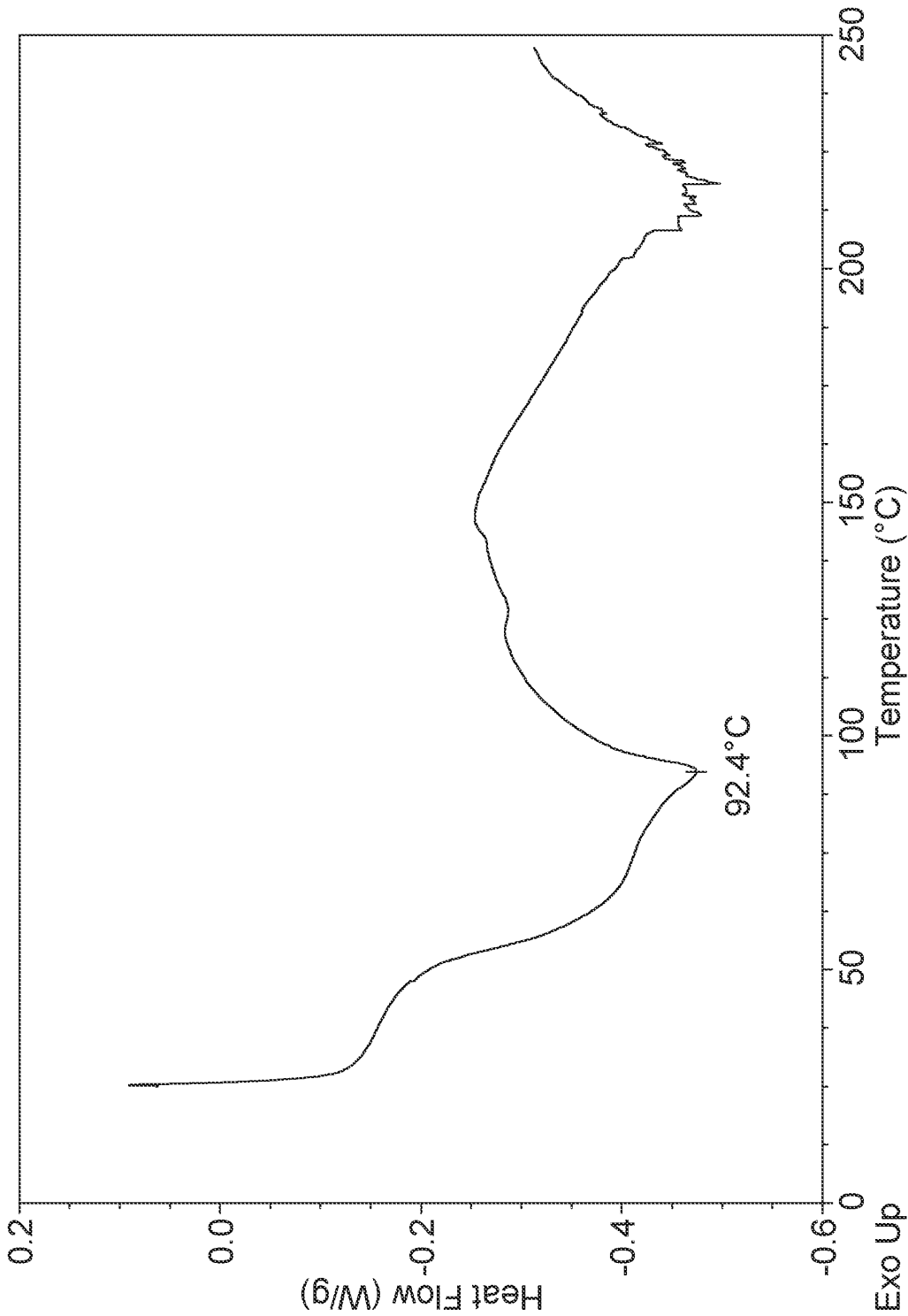


FIG. 46

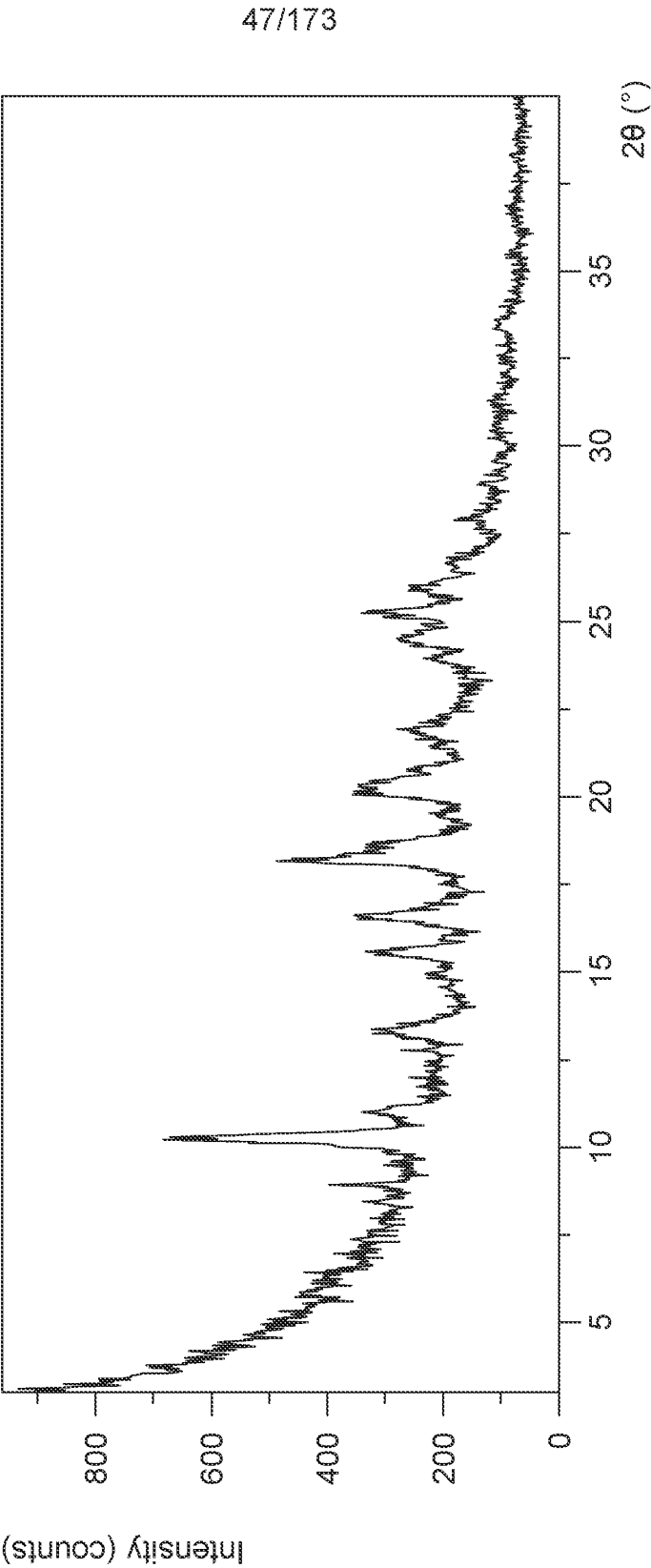


FIG. 47

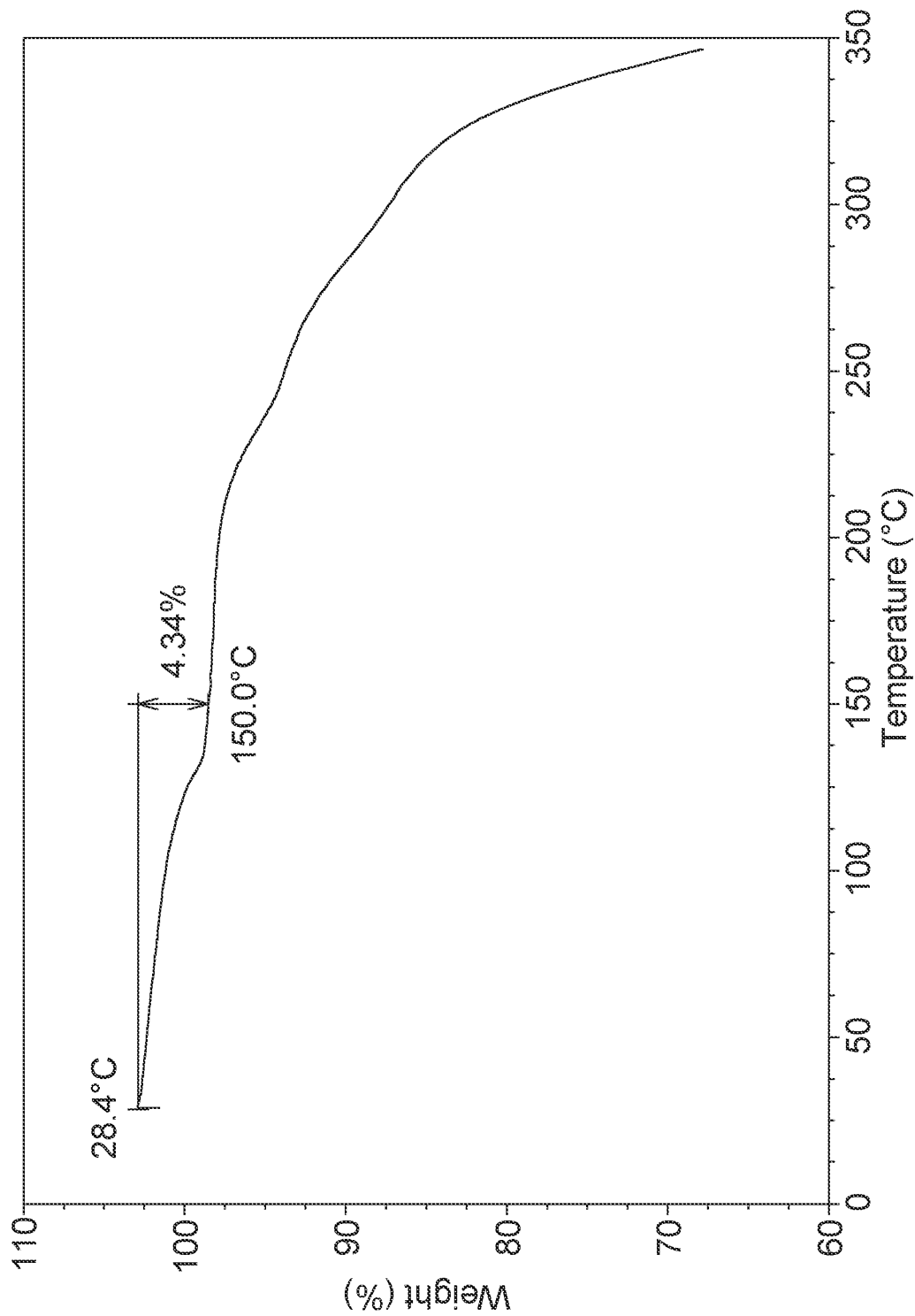


FIG. 48

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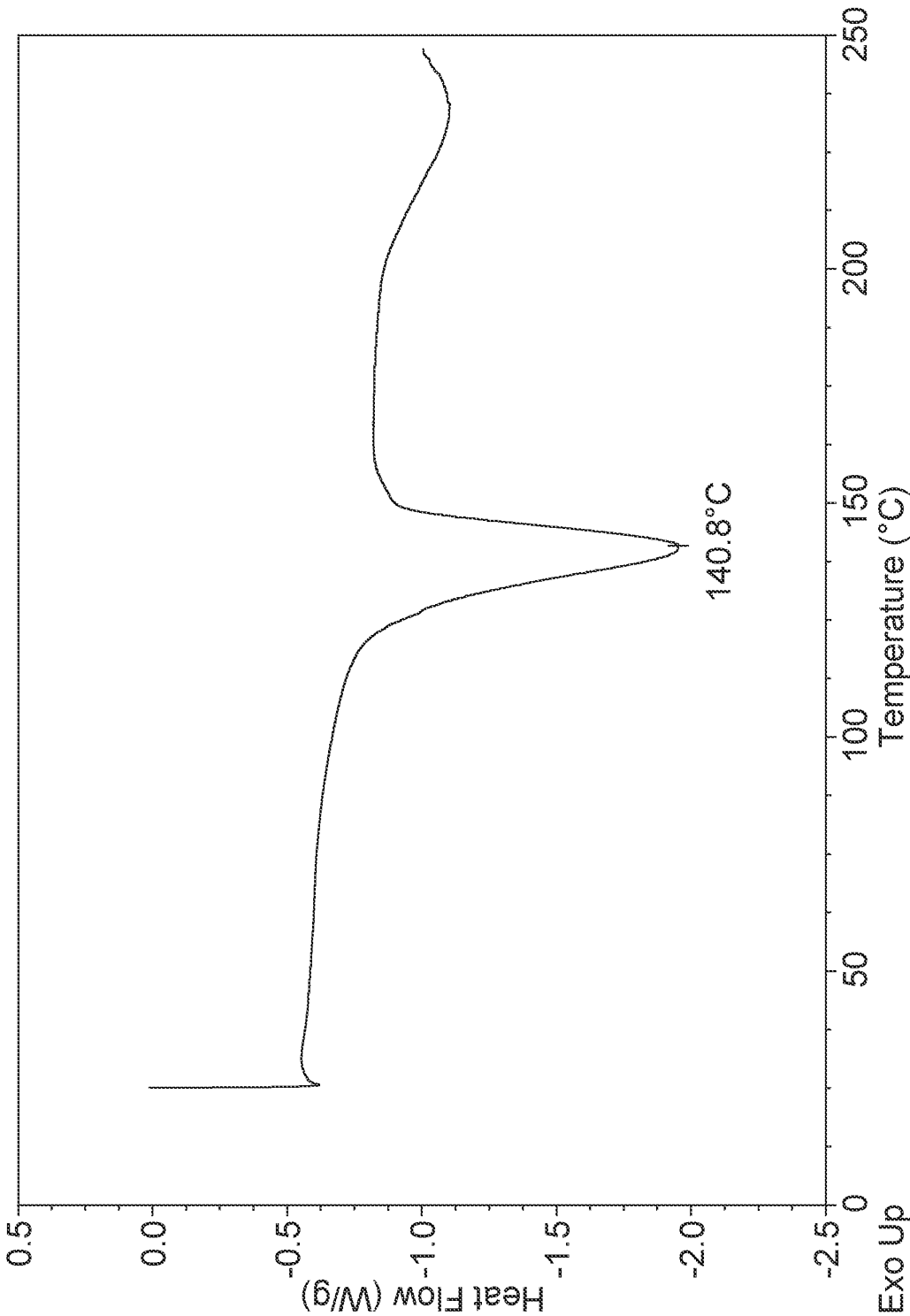


FIG. 49

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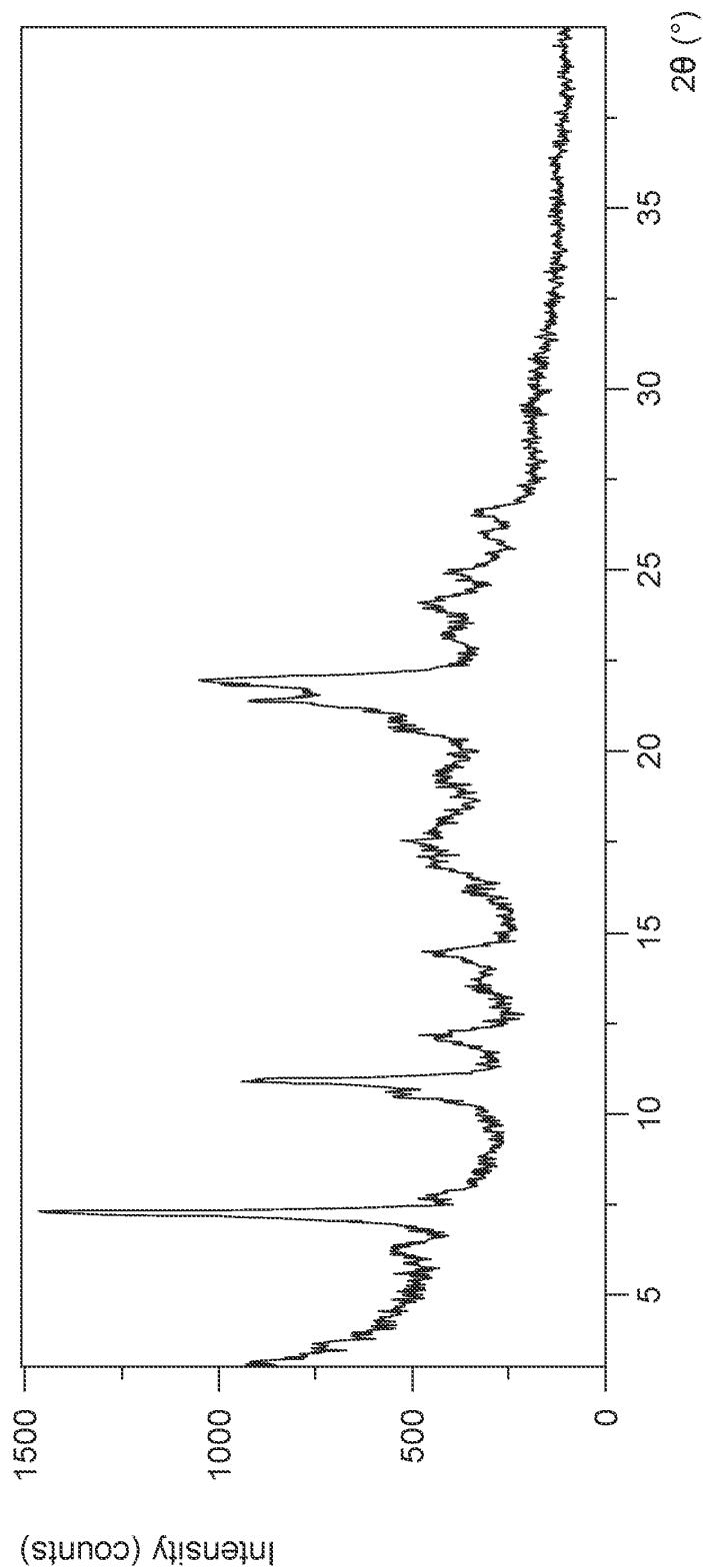


FIG. 50

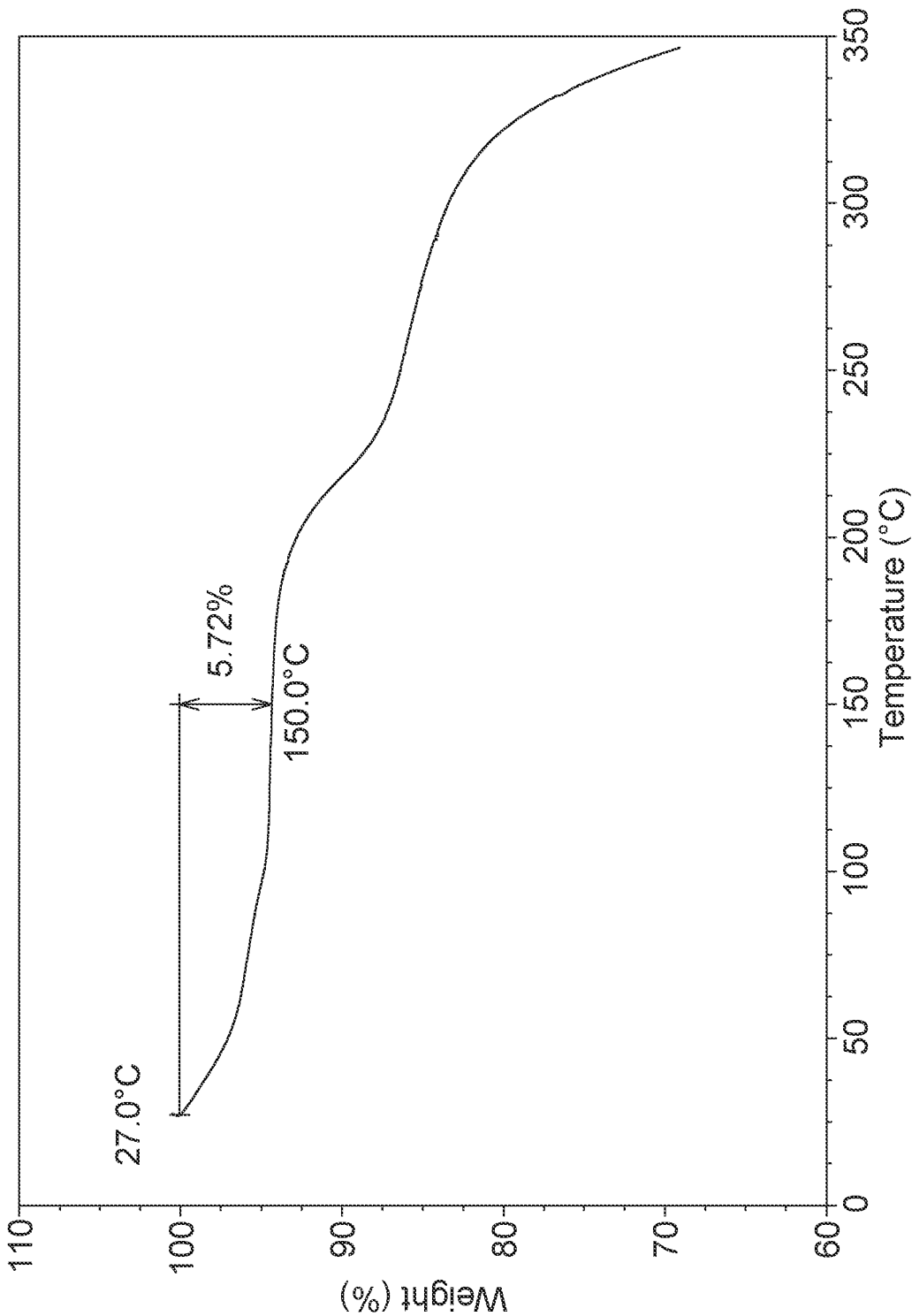


FIG. 51

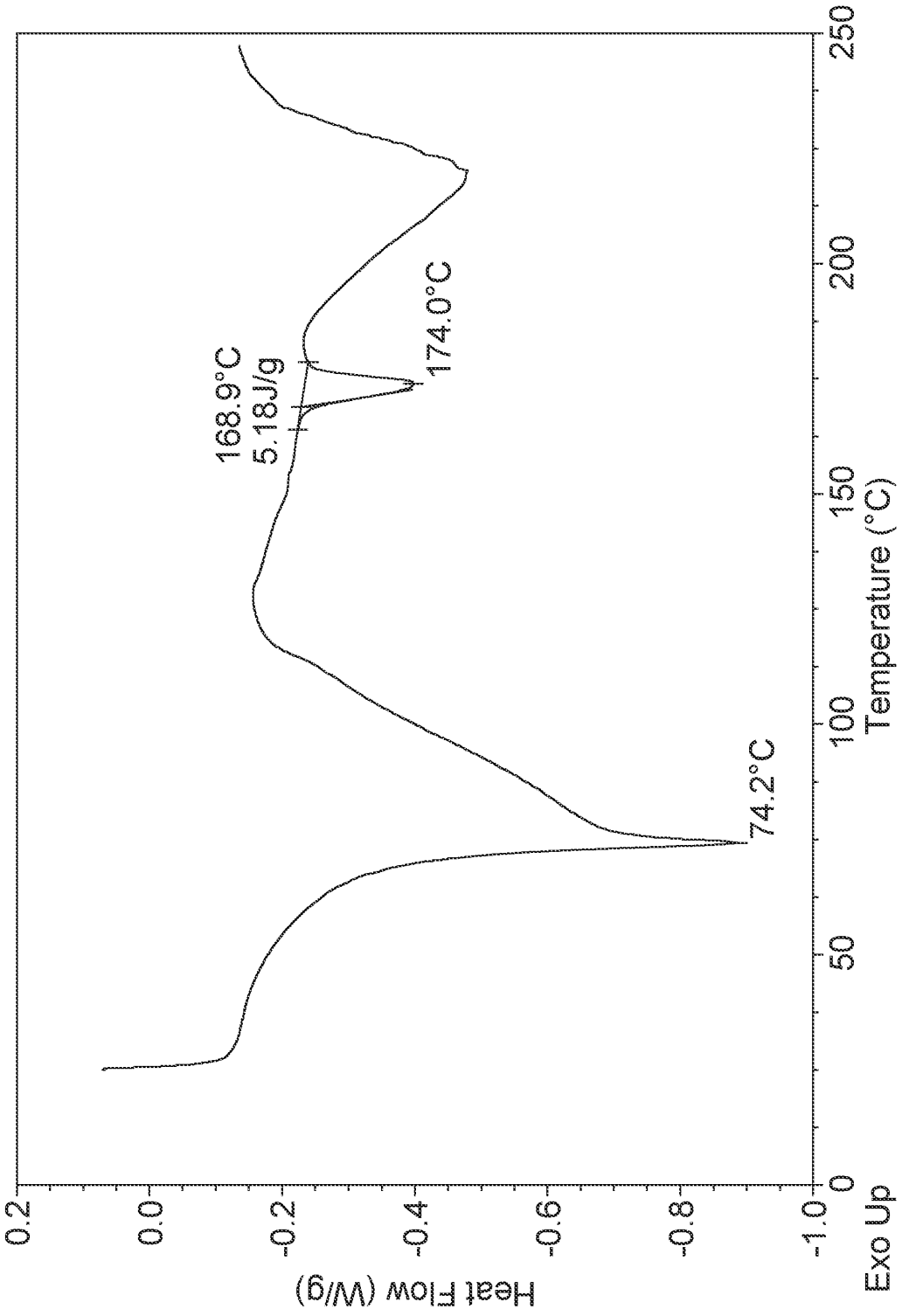


FIG. 52

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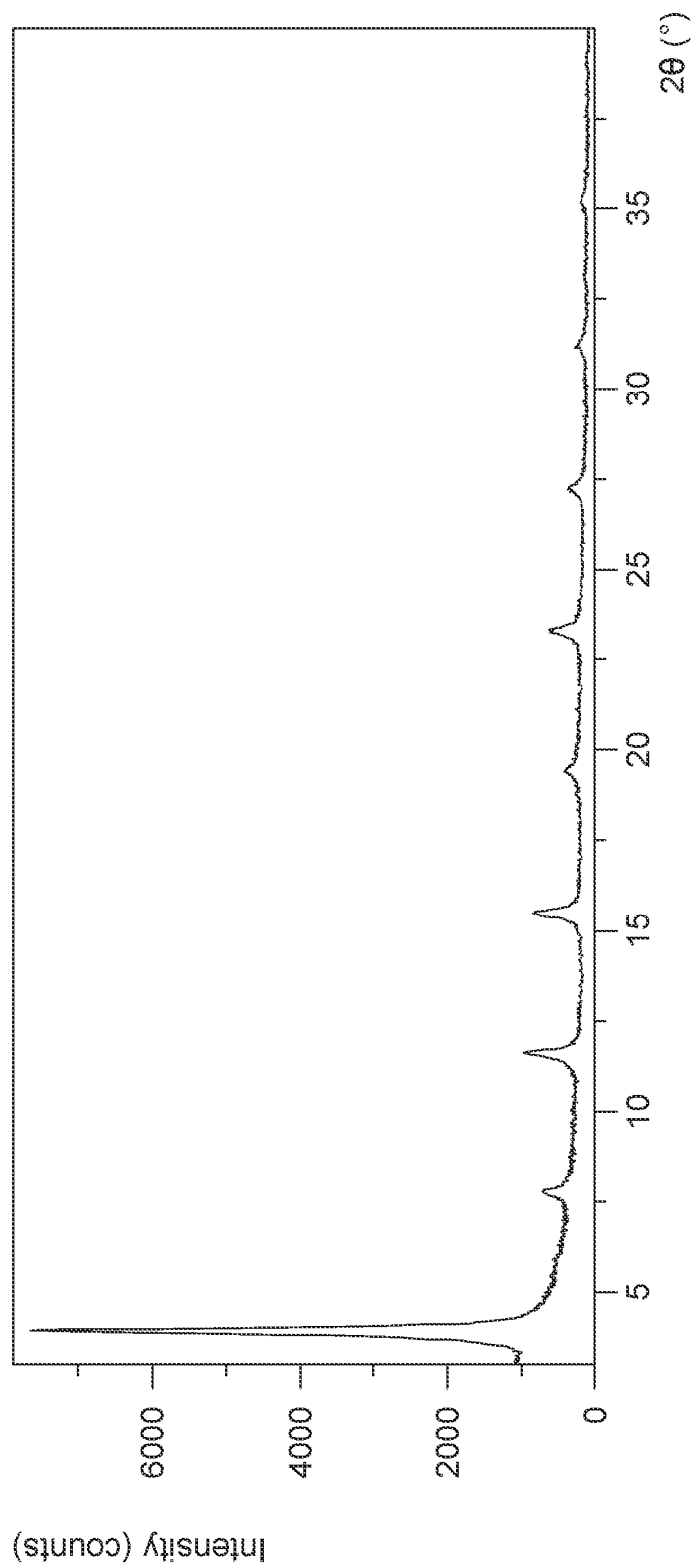


FIG. 53

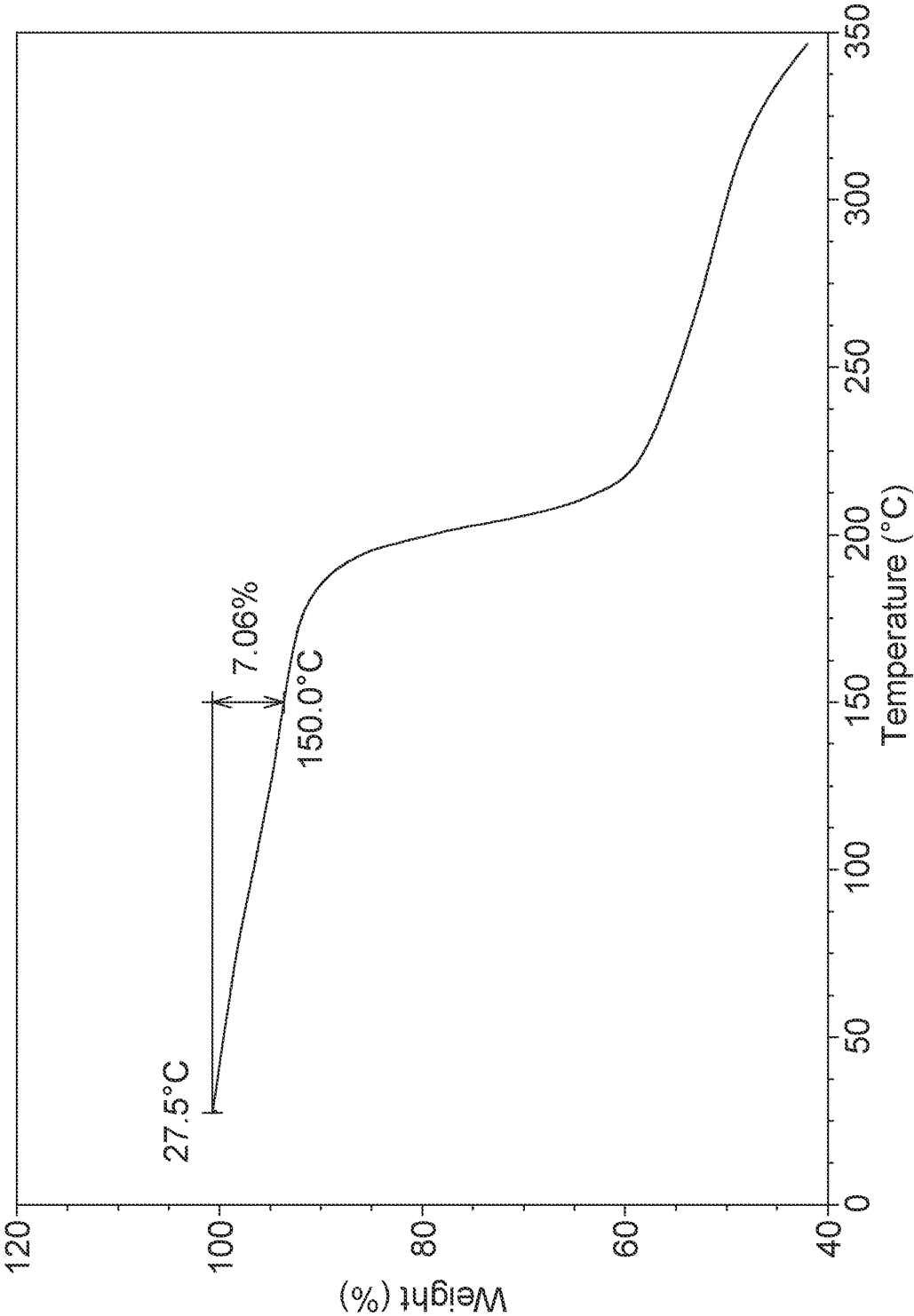


FIG. 54

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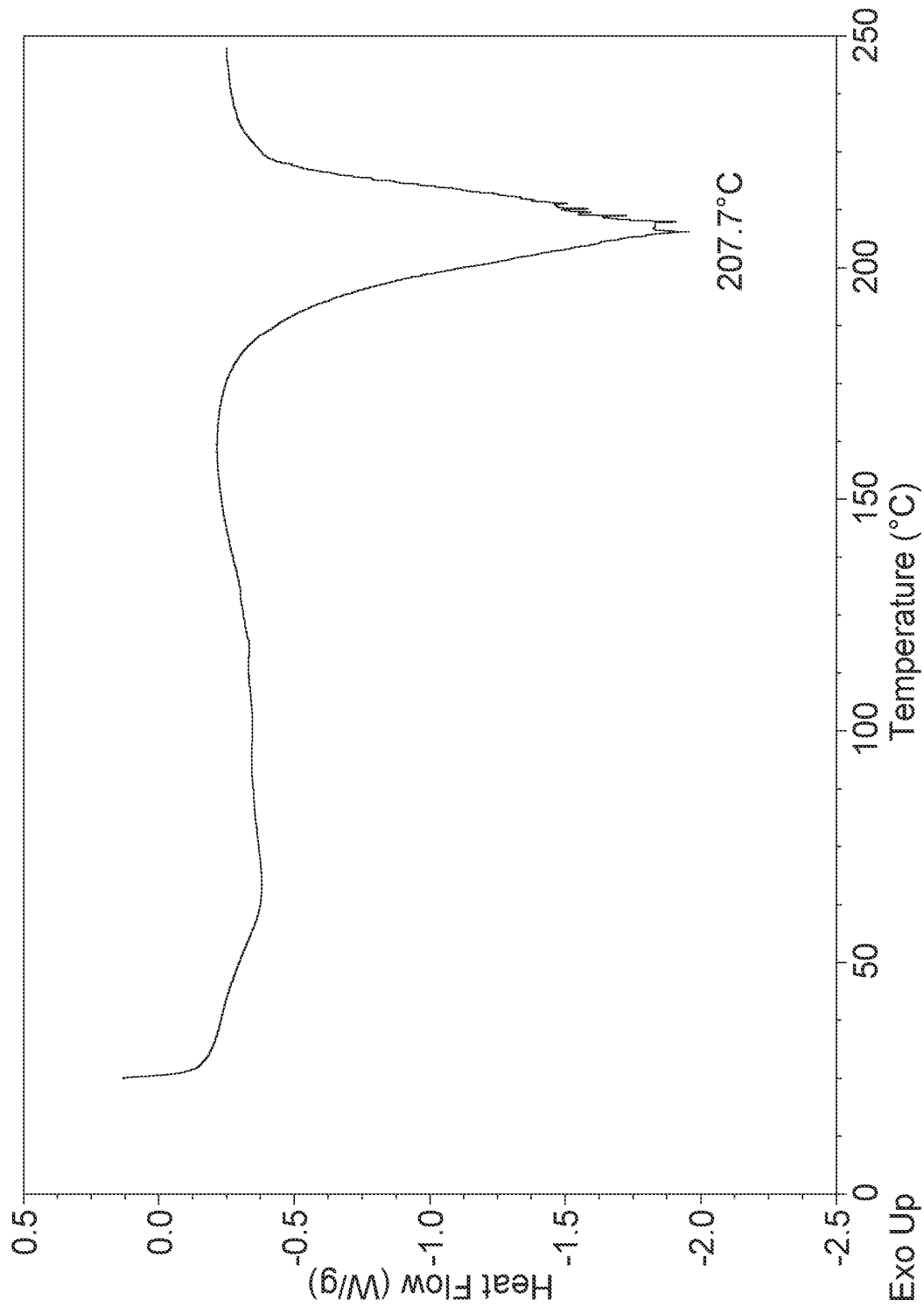


FIG. 55

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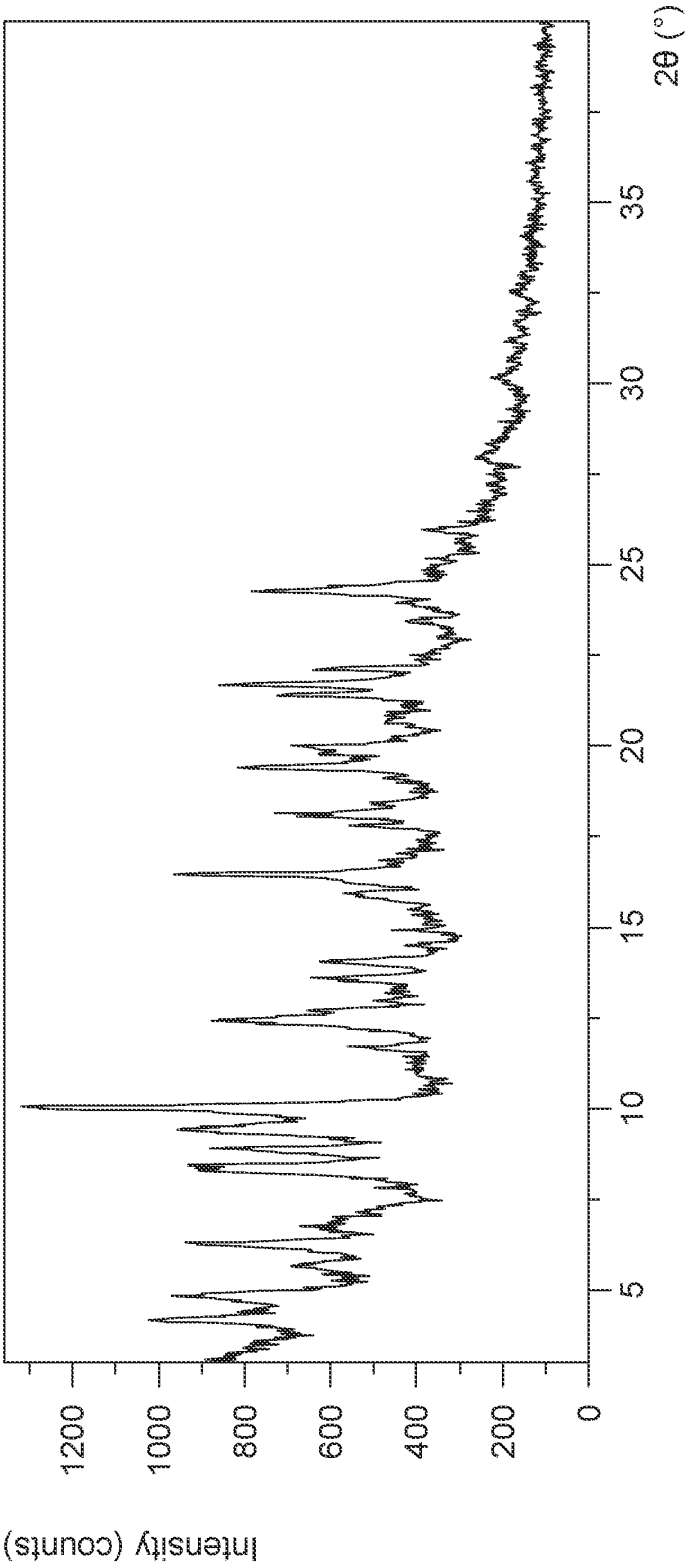


FIG. 56

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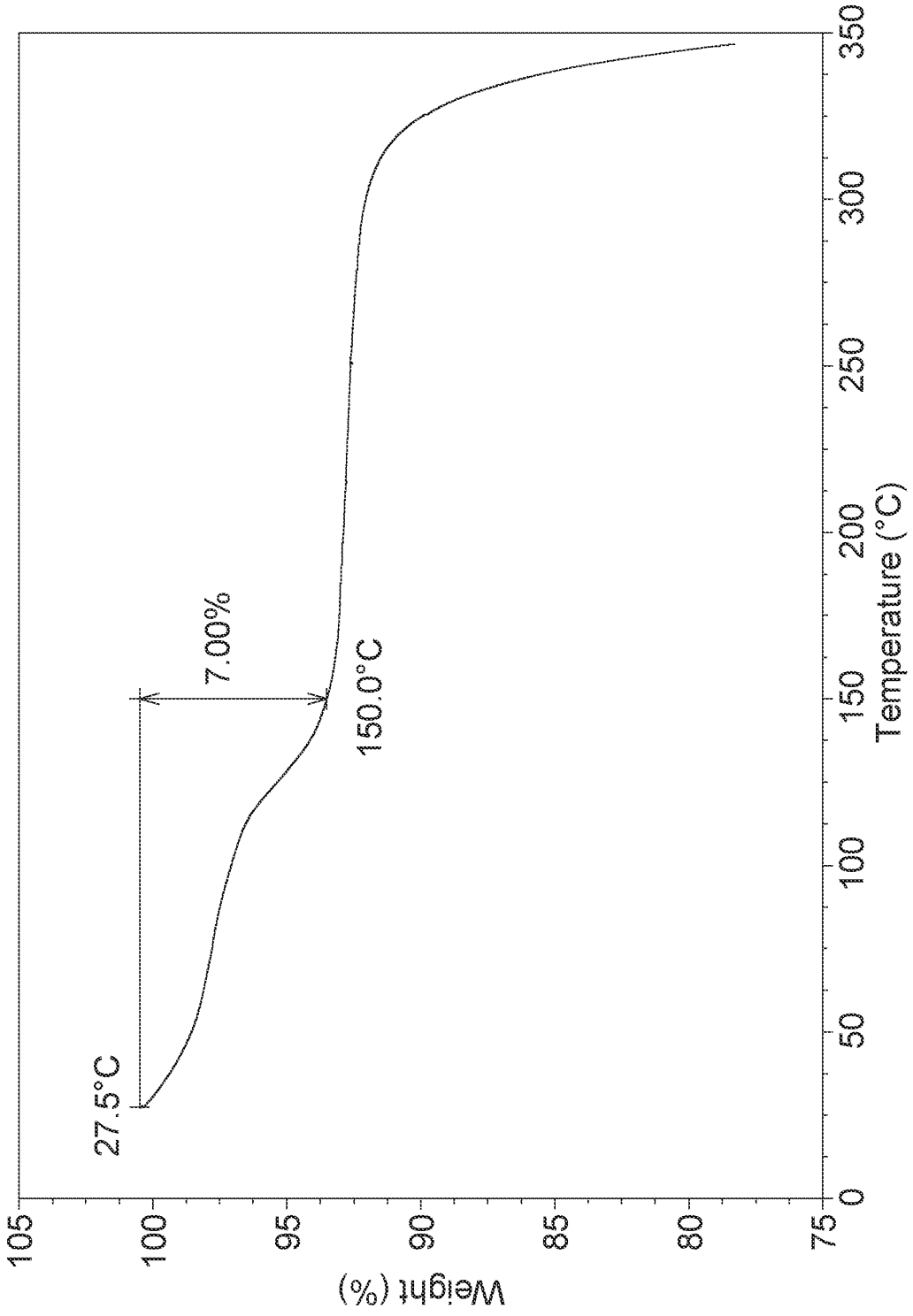


FIG. 57

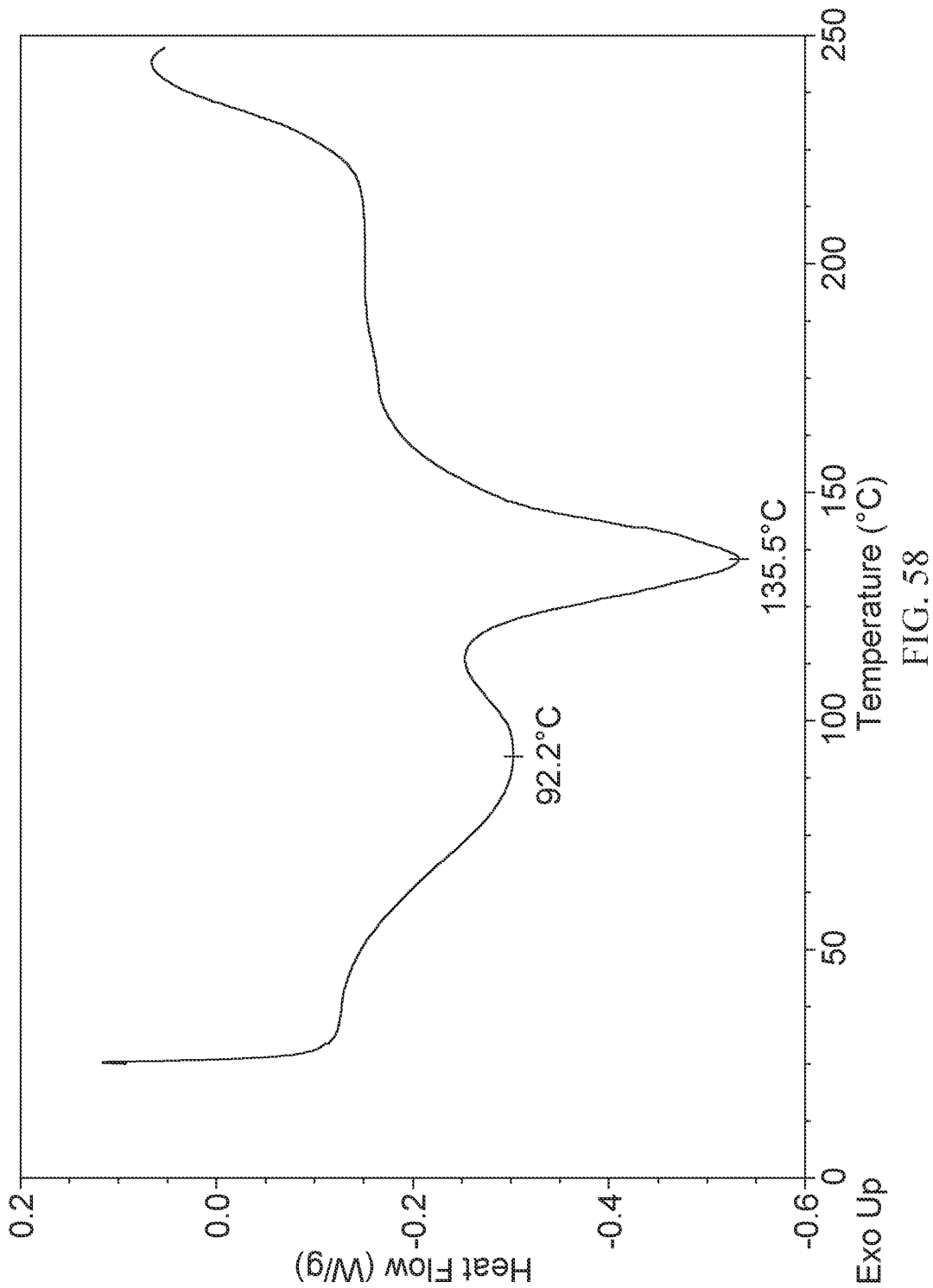


FIG. 58

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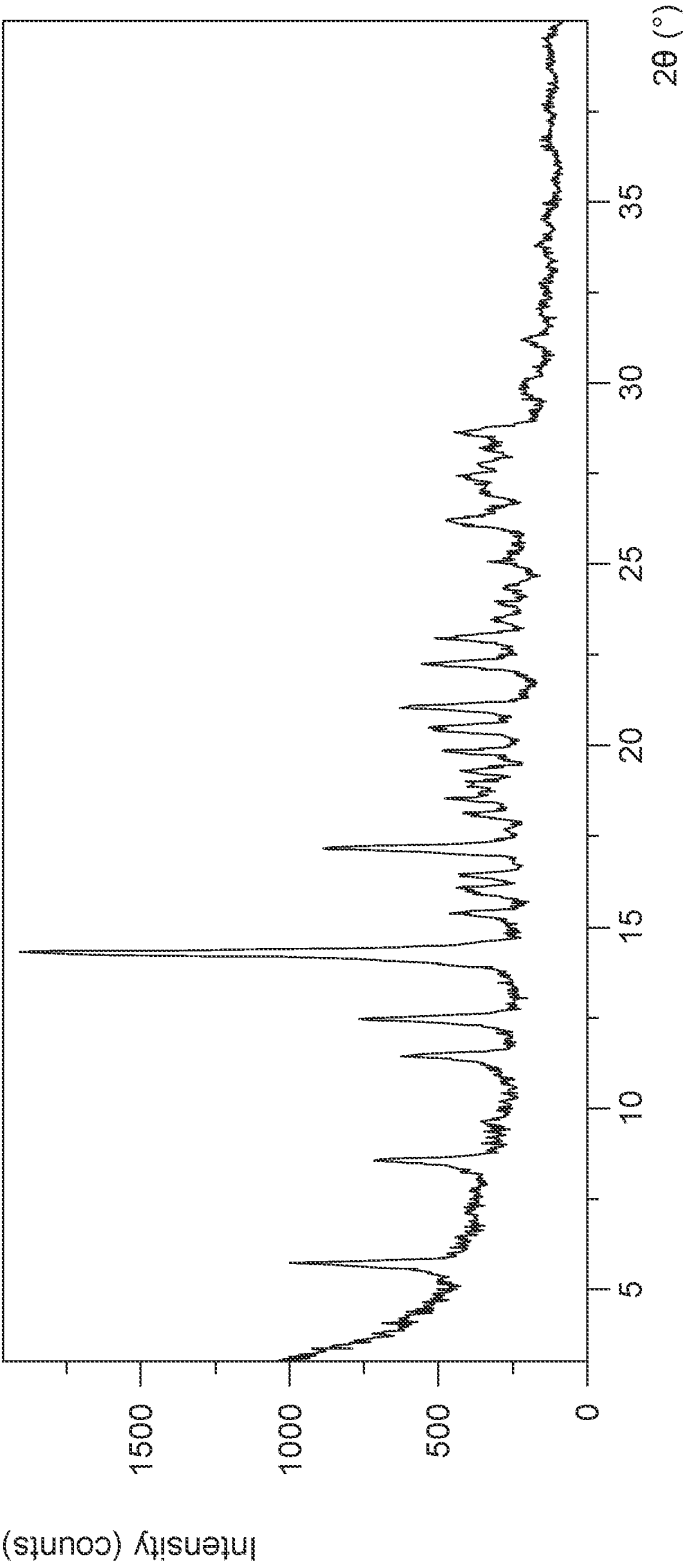


FIG. 59

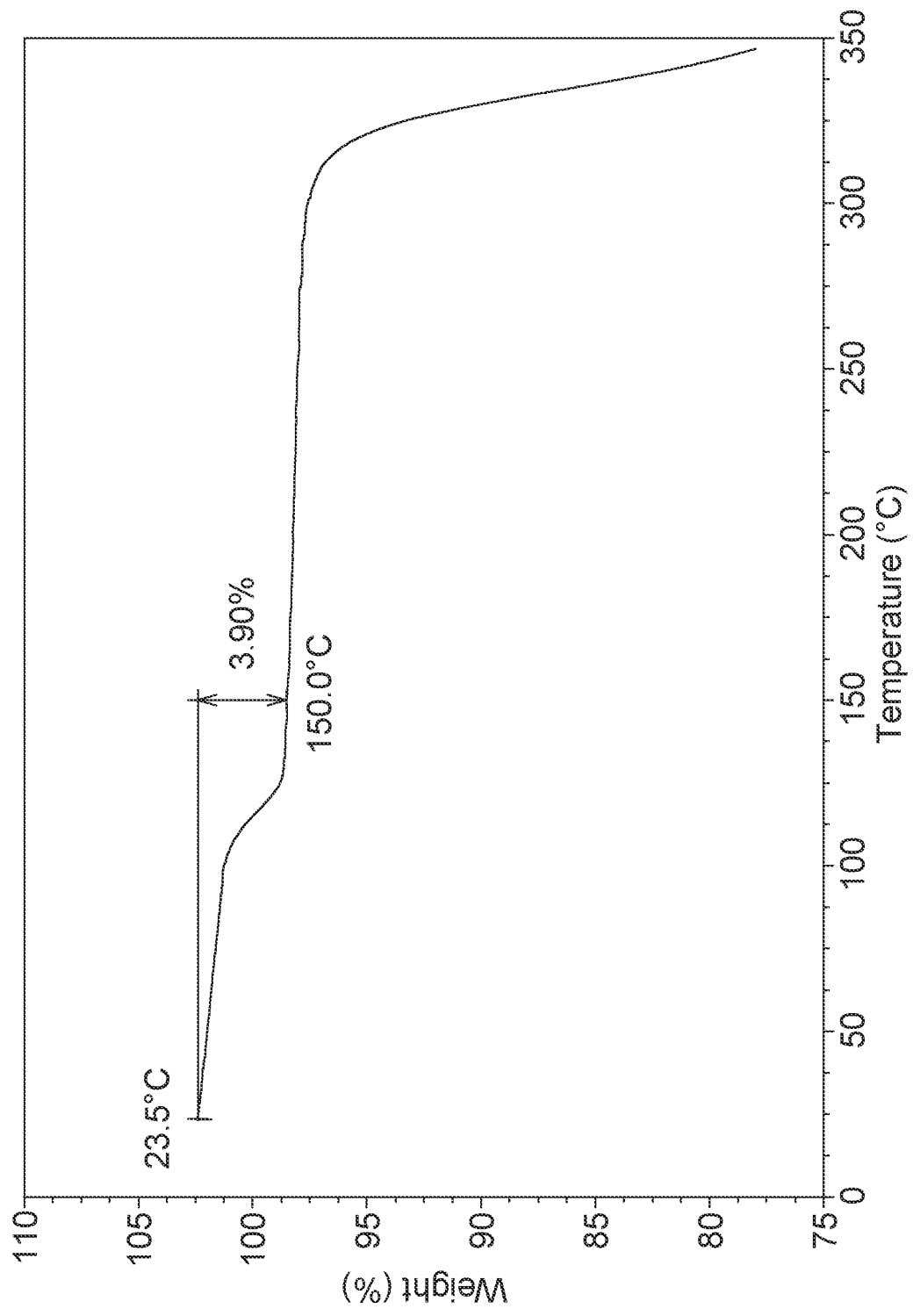


FIG. 60

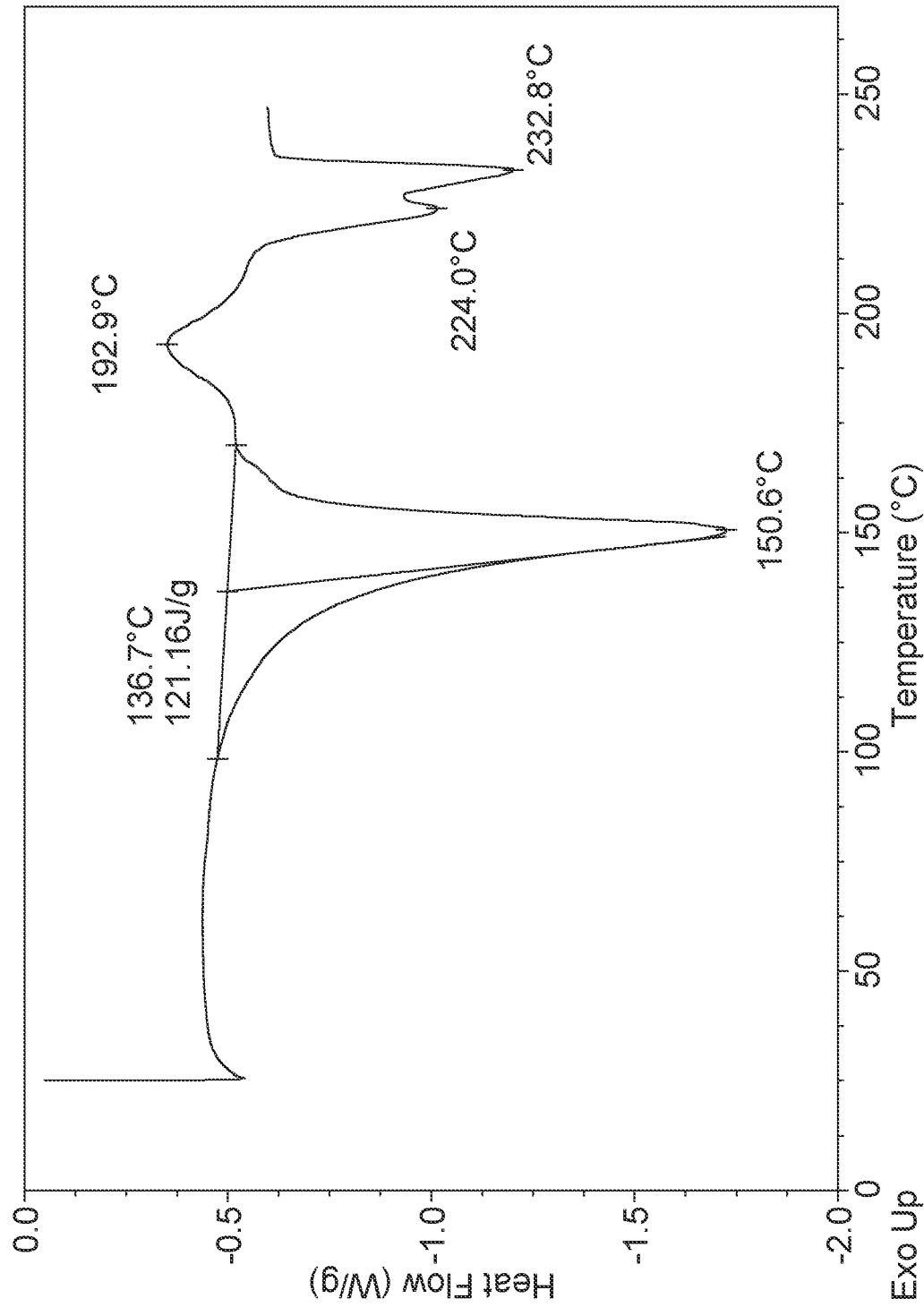


FIG. 61

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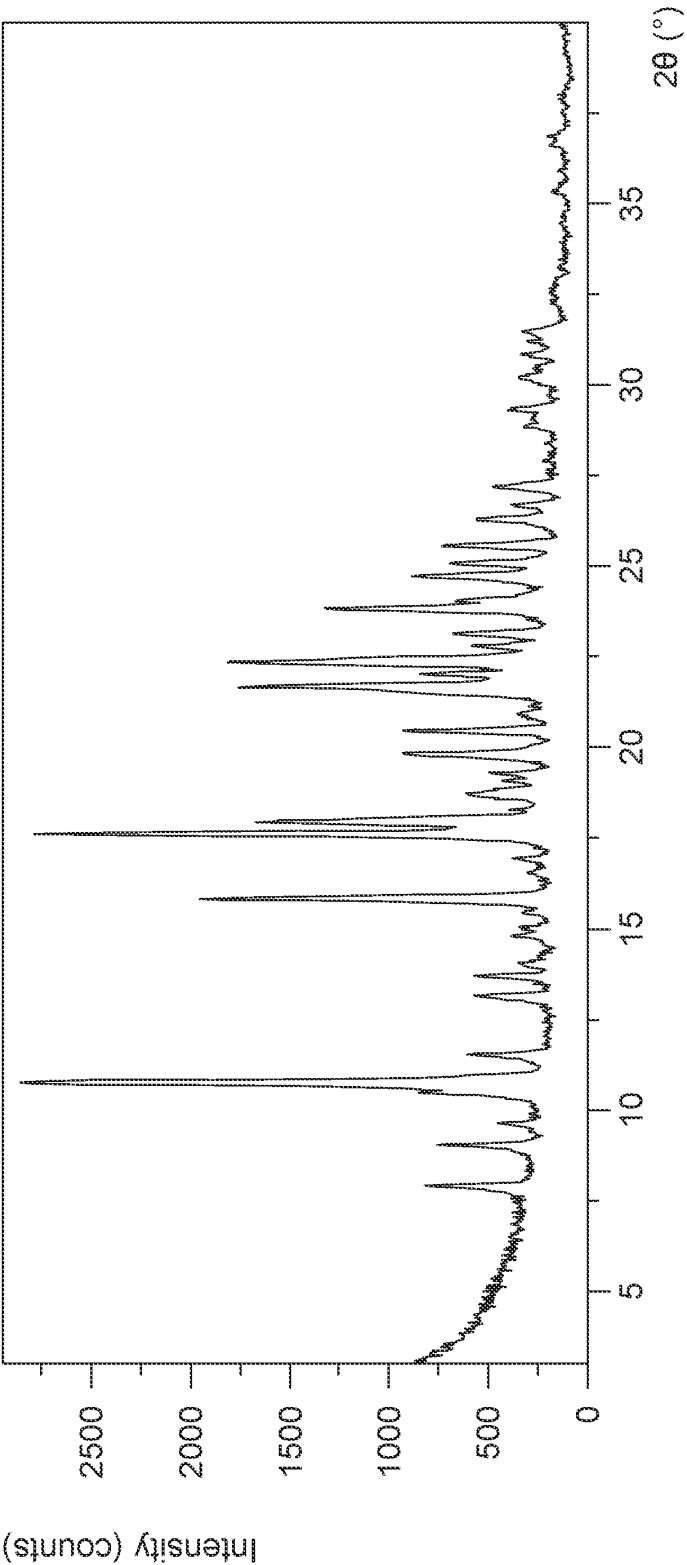


FIG. 62

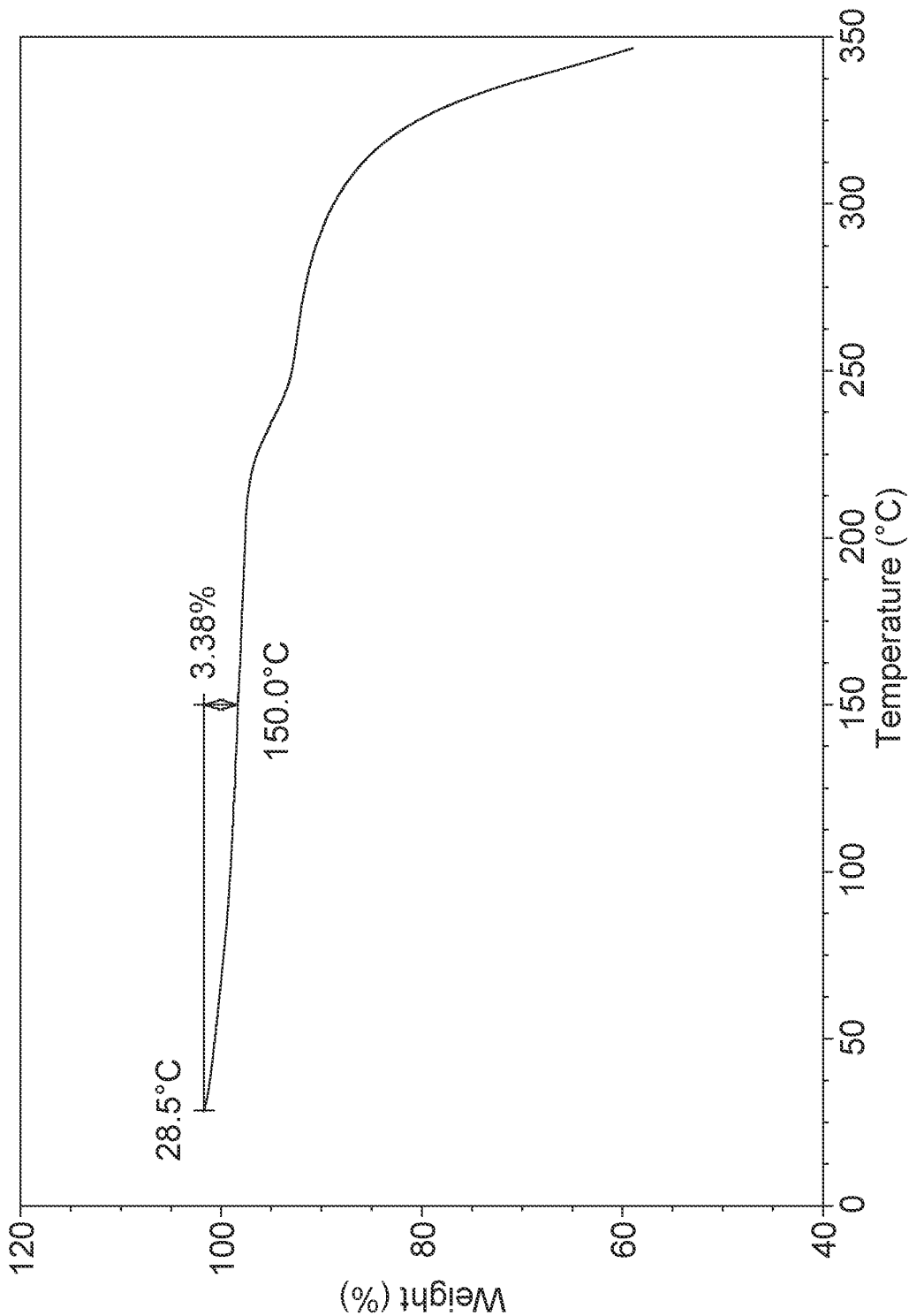


FIG. 63

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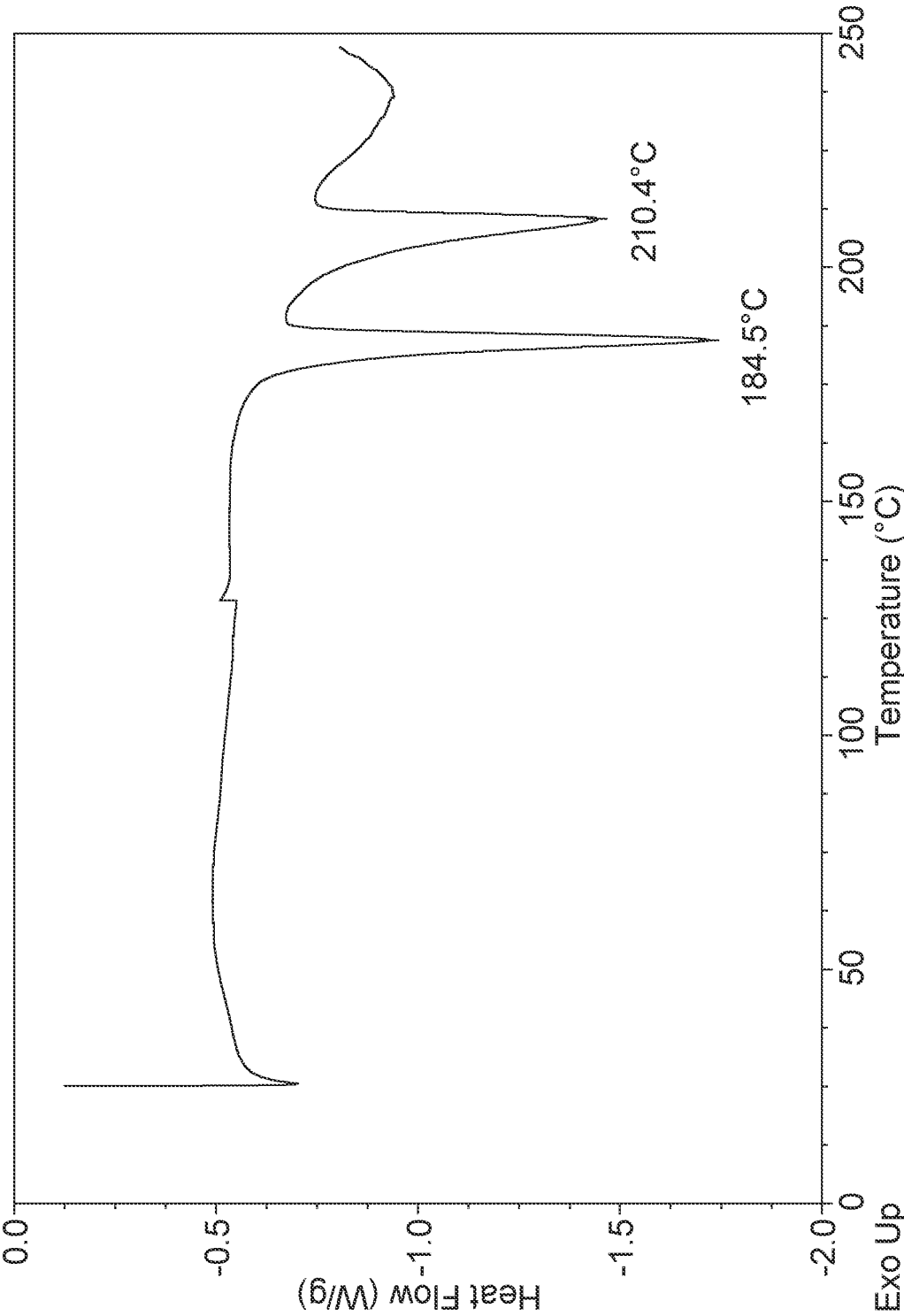


FIG. 64

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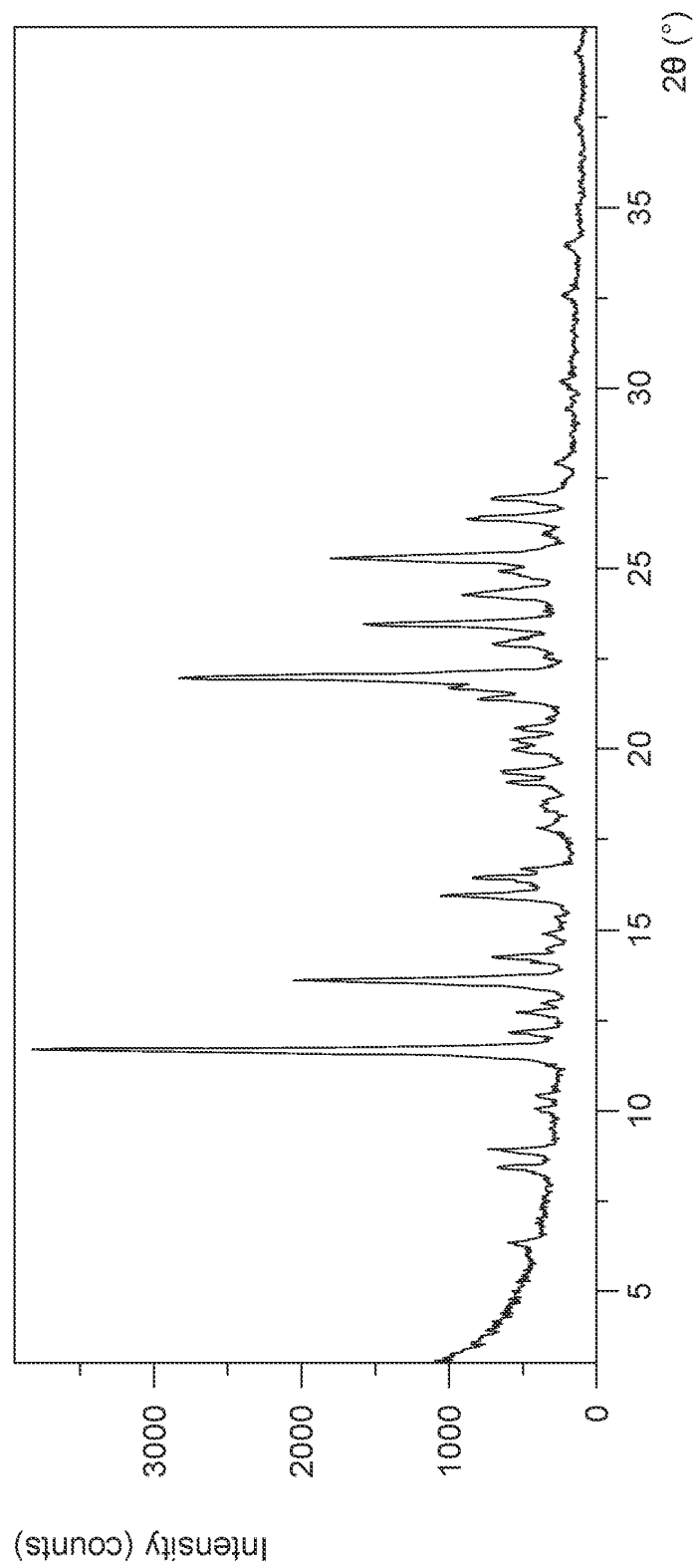


FIG. 65

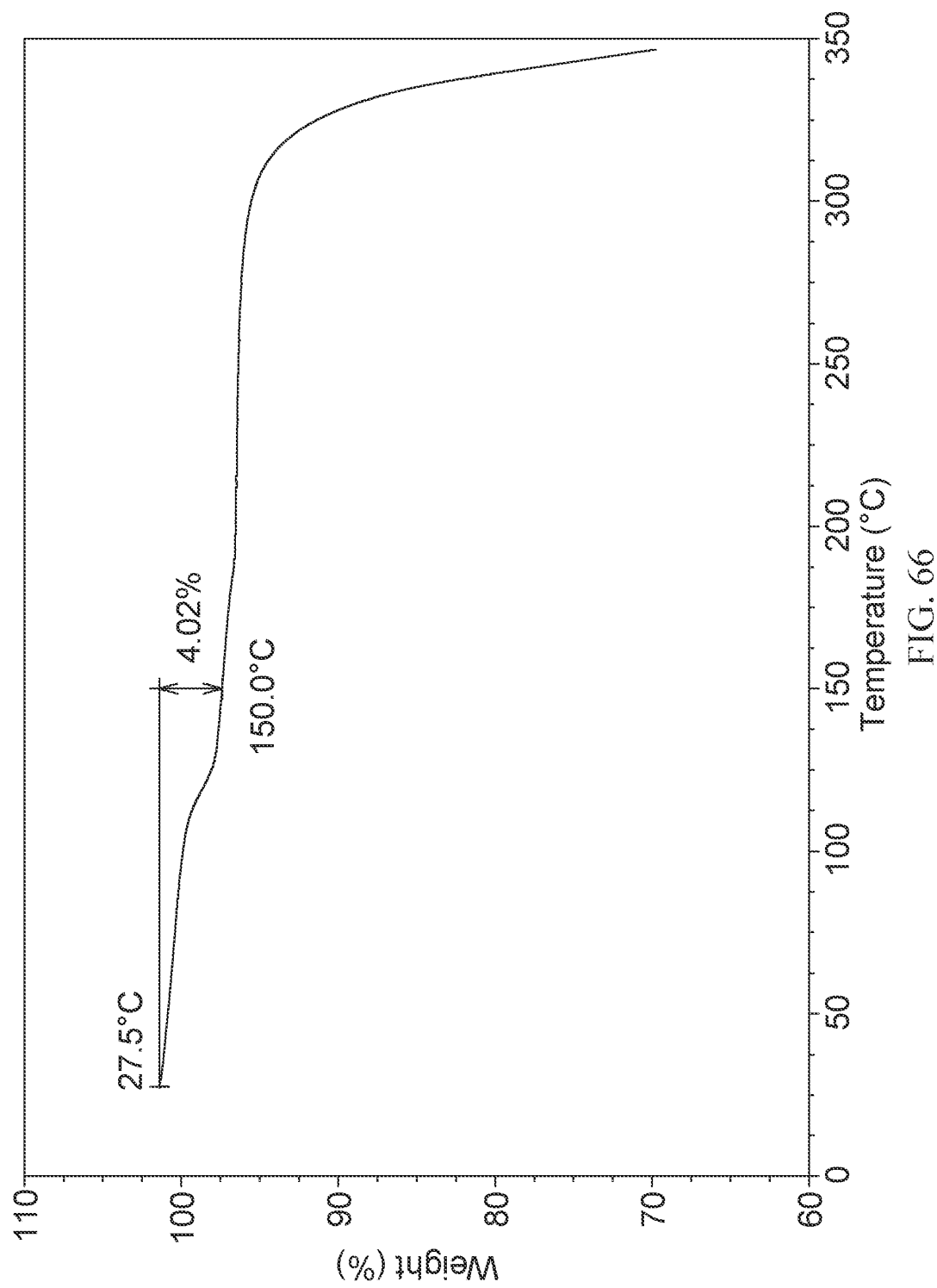


FIG. 66

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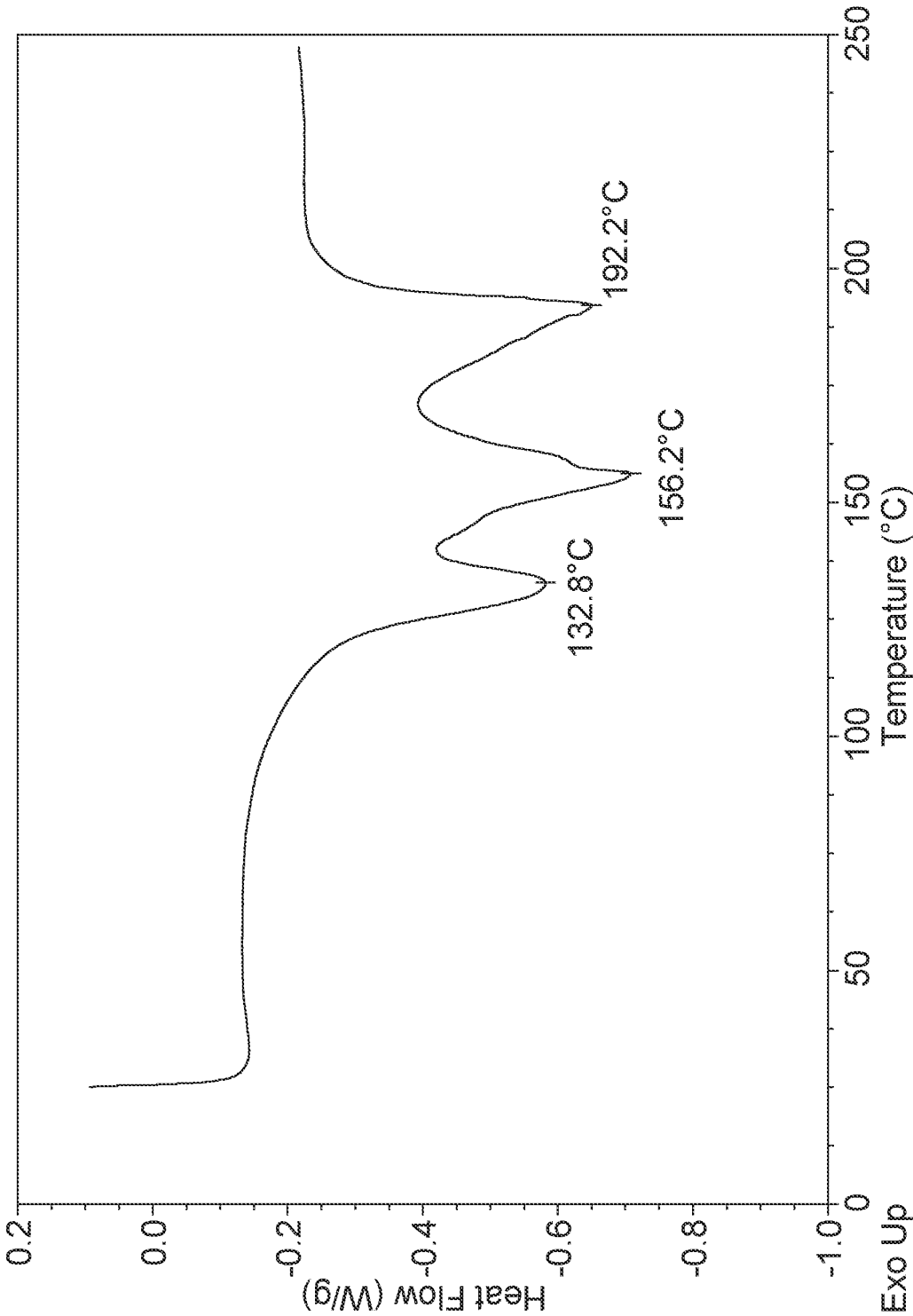


FIG. 67

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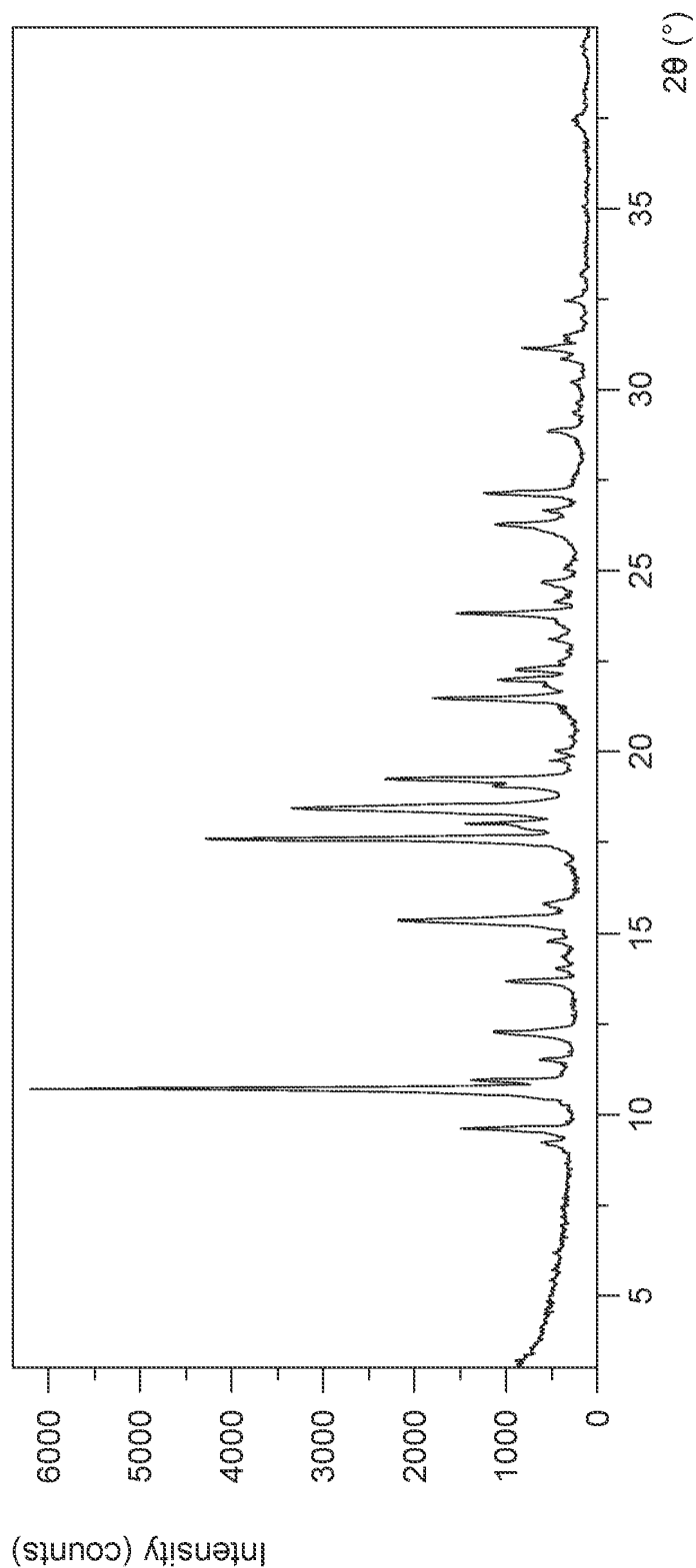


FIG. 68

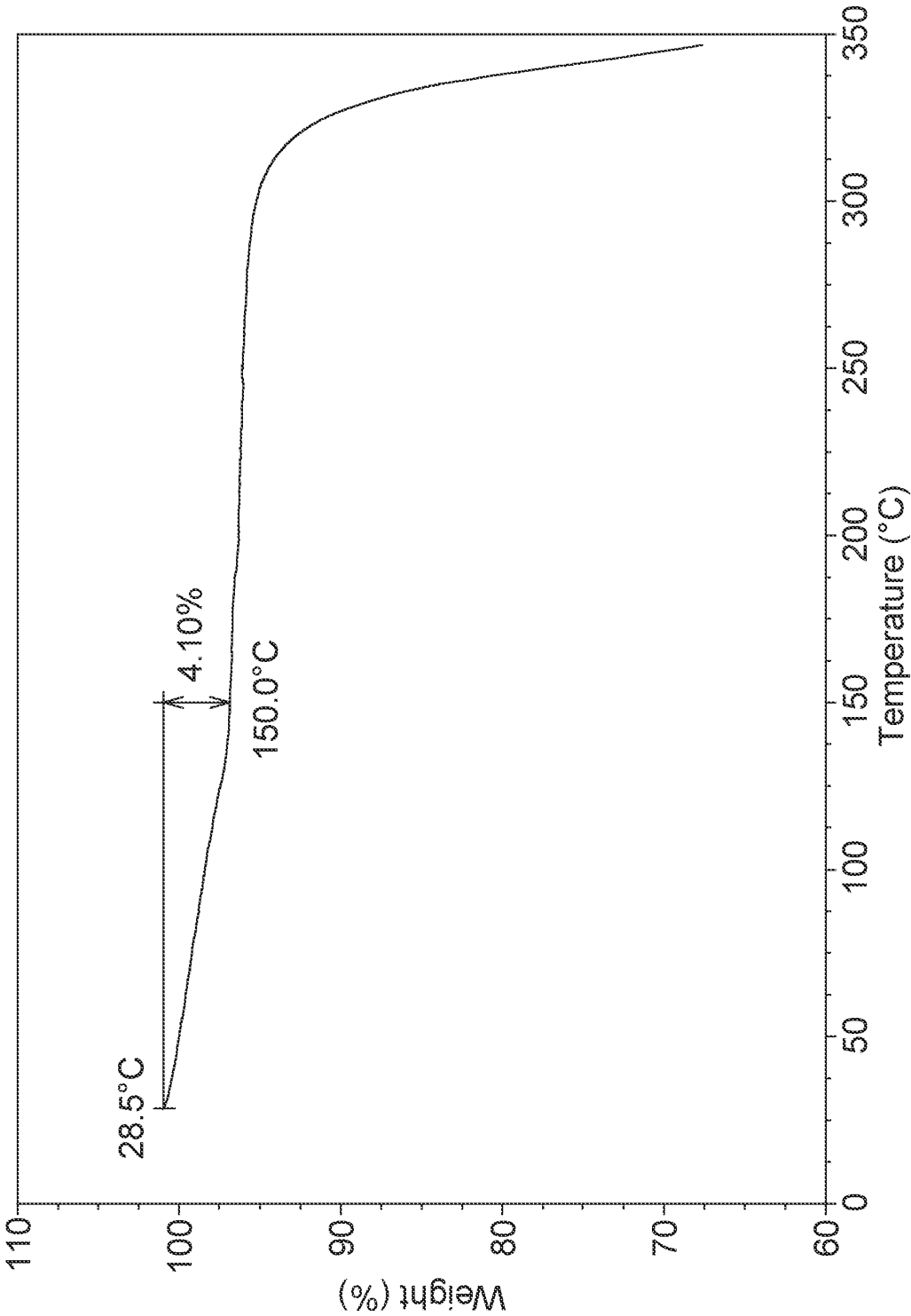
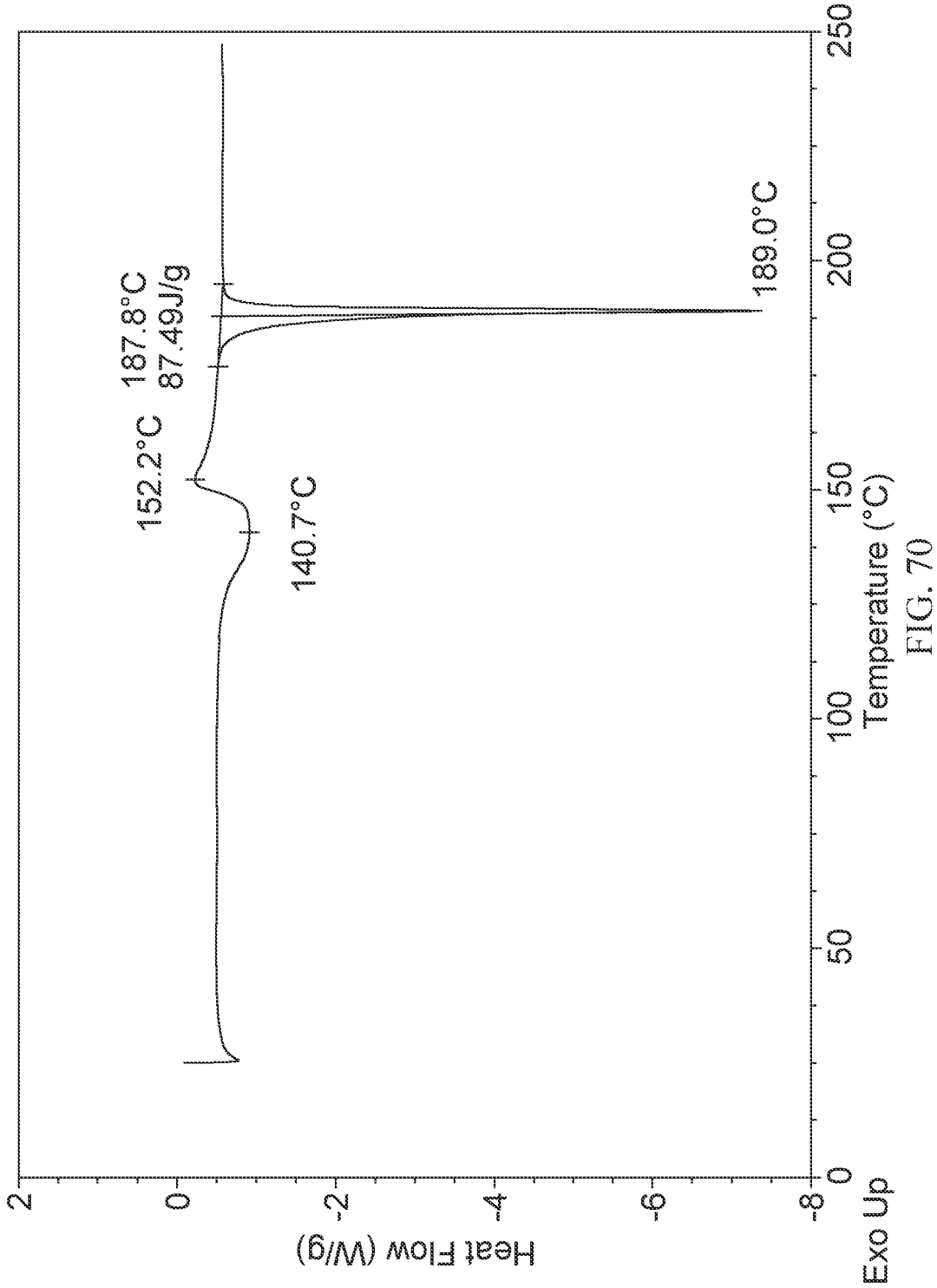


FIG. 69

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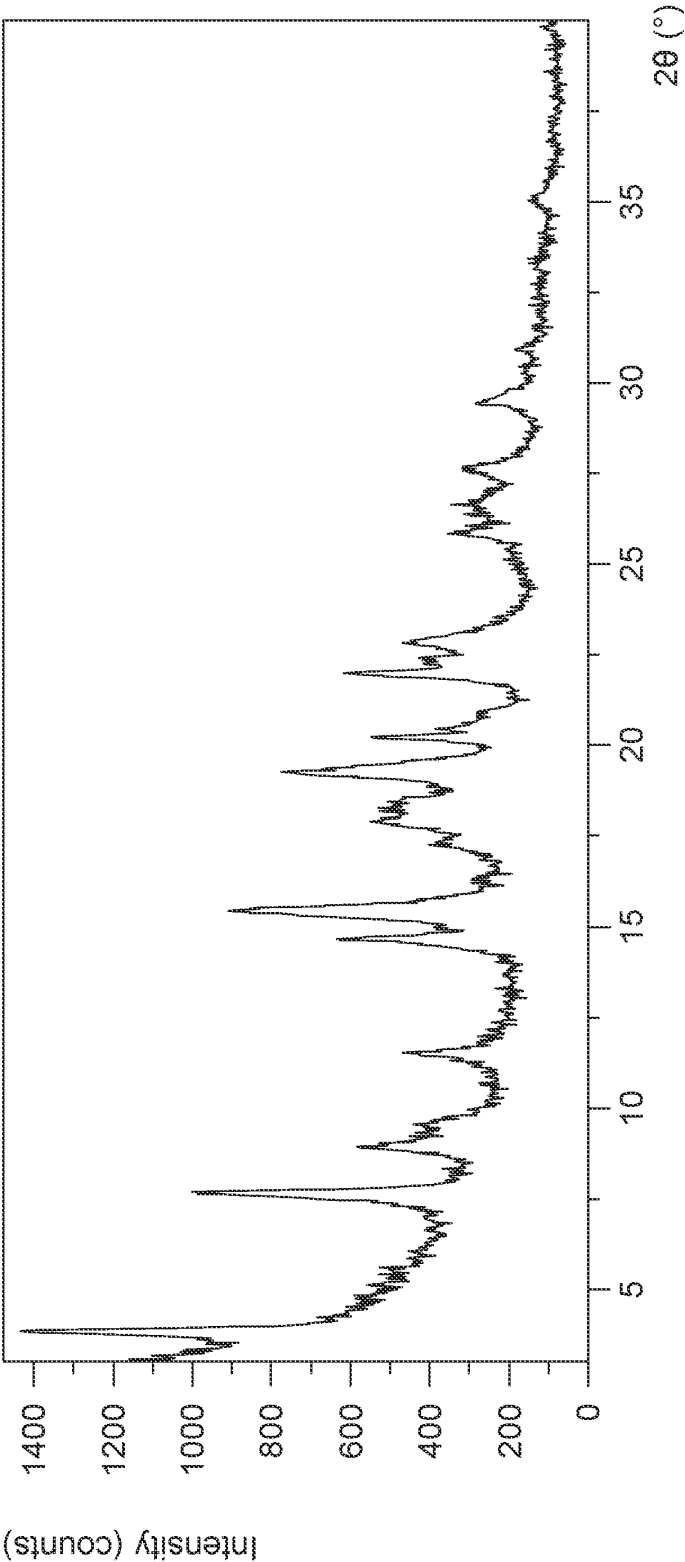


FIG. 71

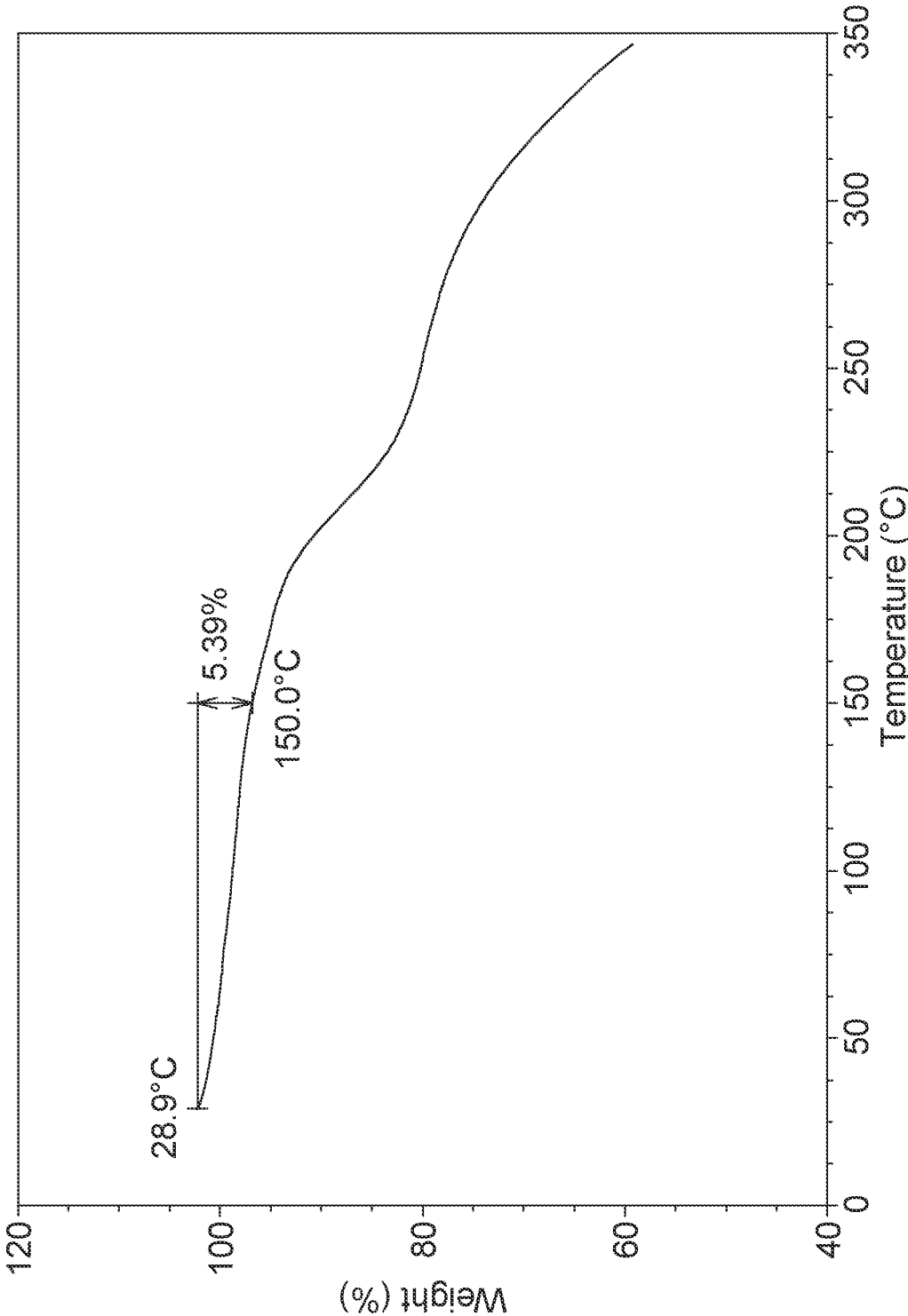


FIG. 72

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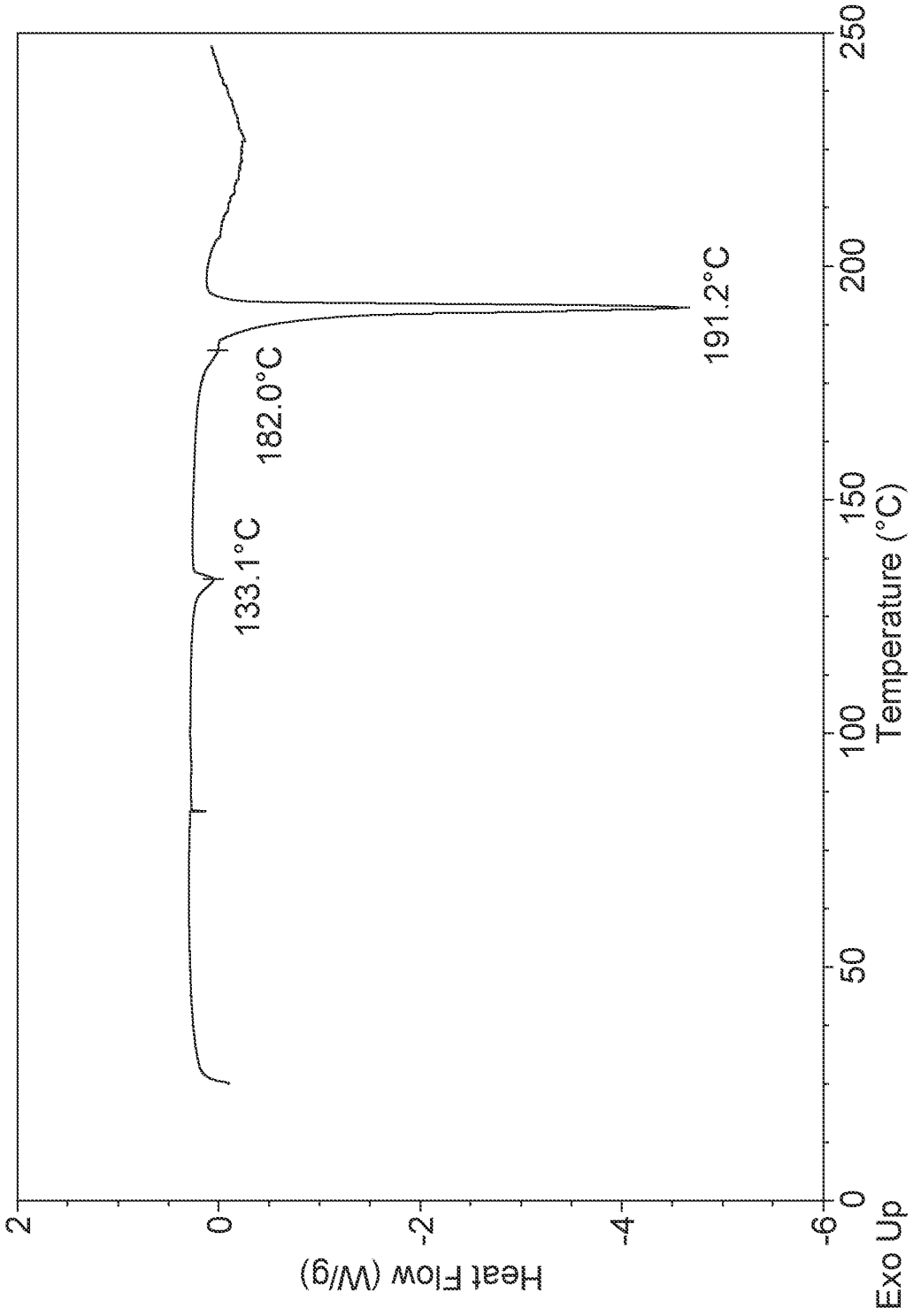


FIG. 73

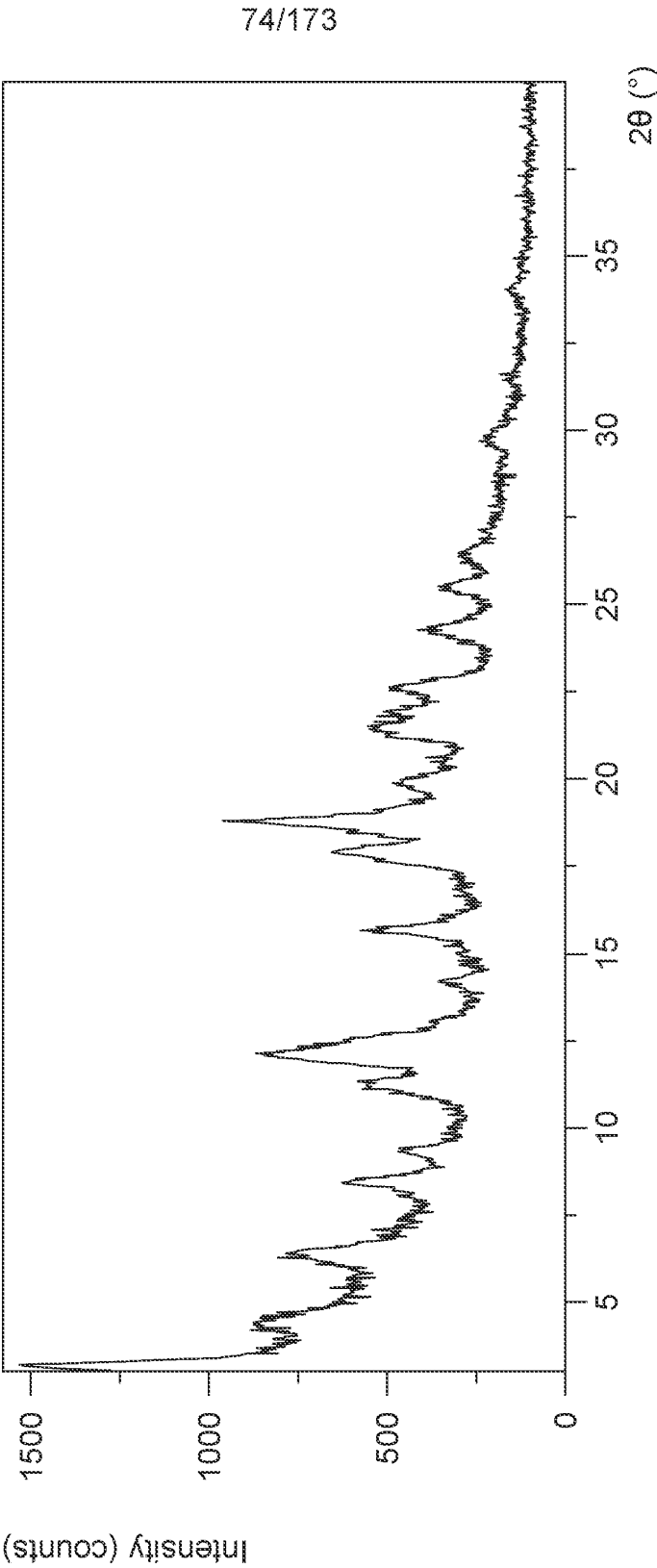


FIG. 74

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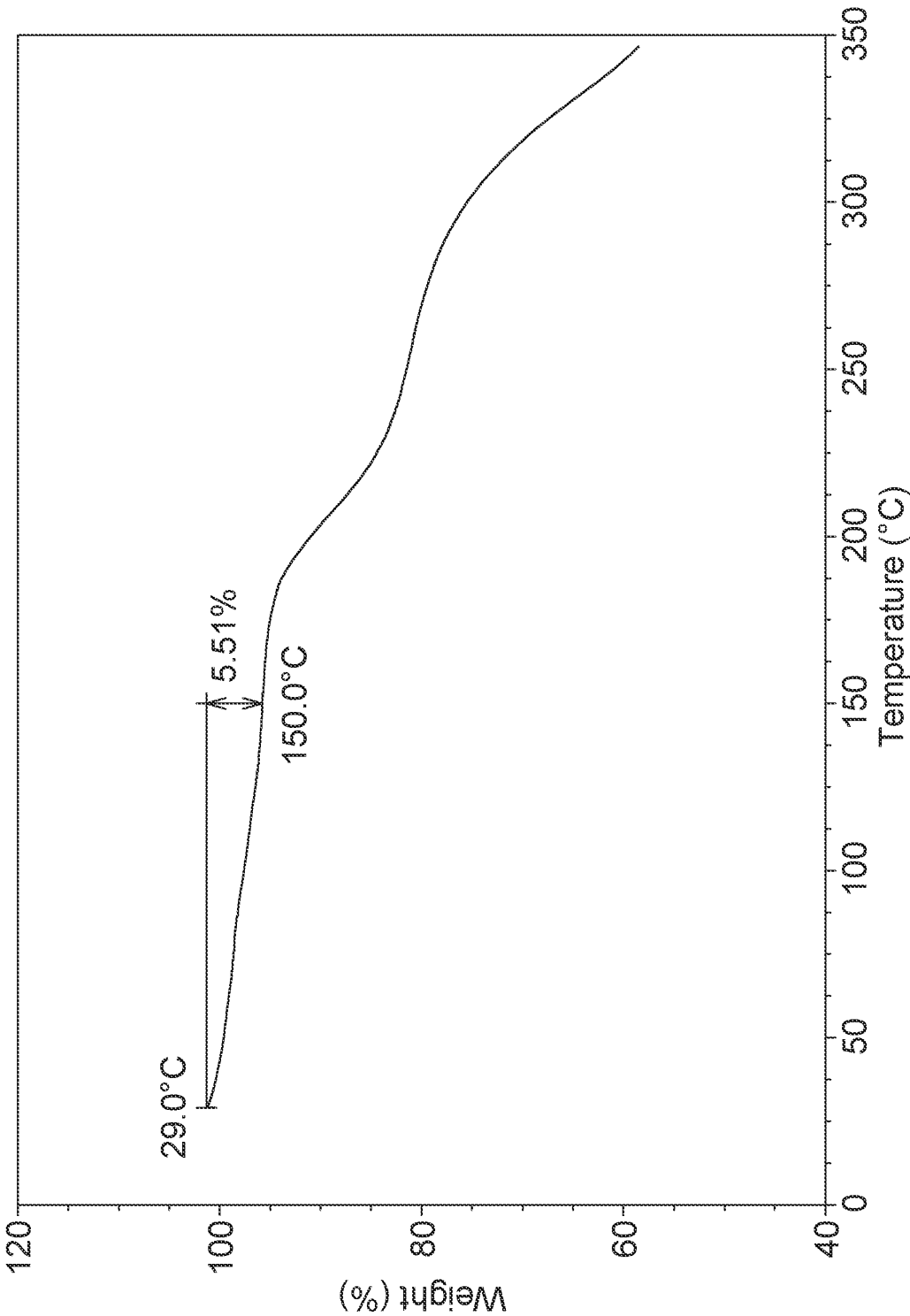


FIG. 75

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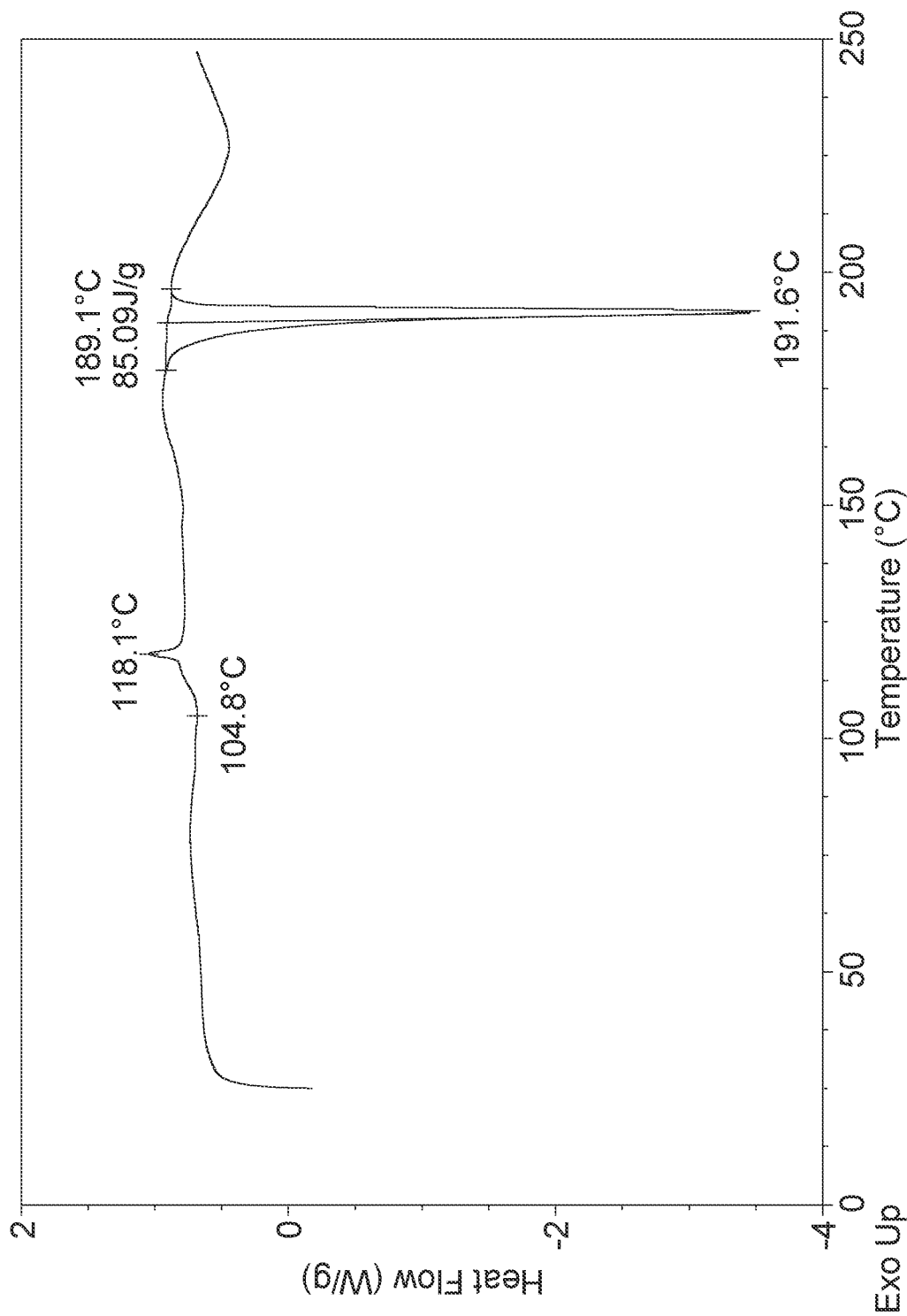


FIG. 76

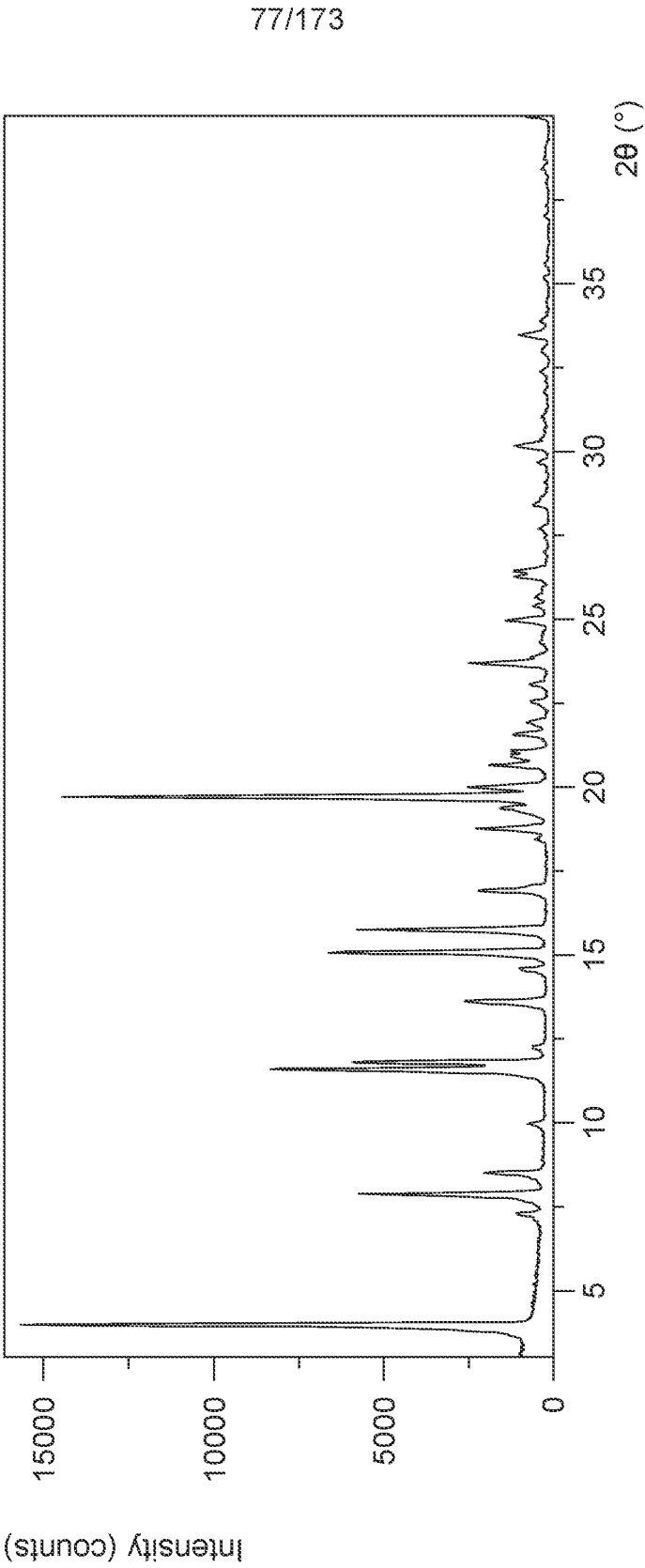
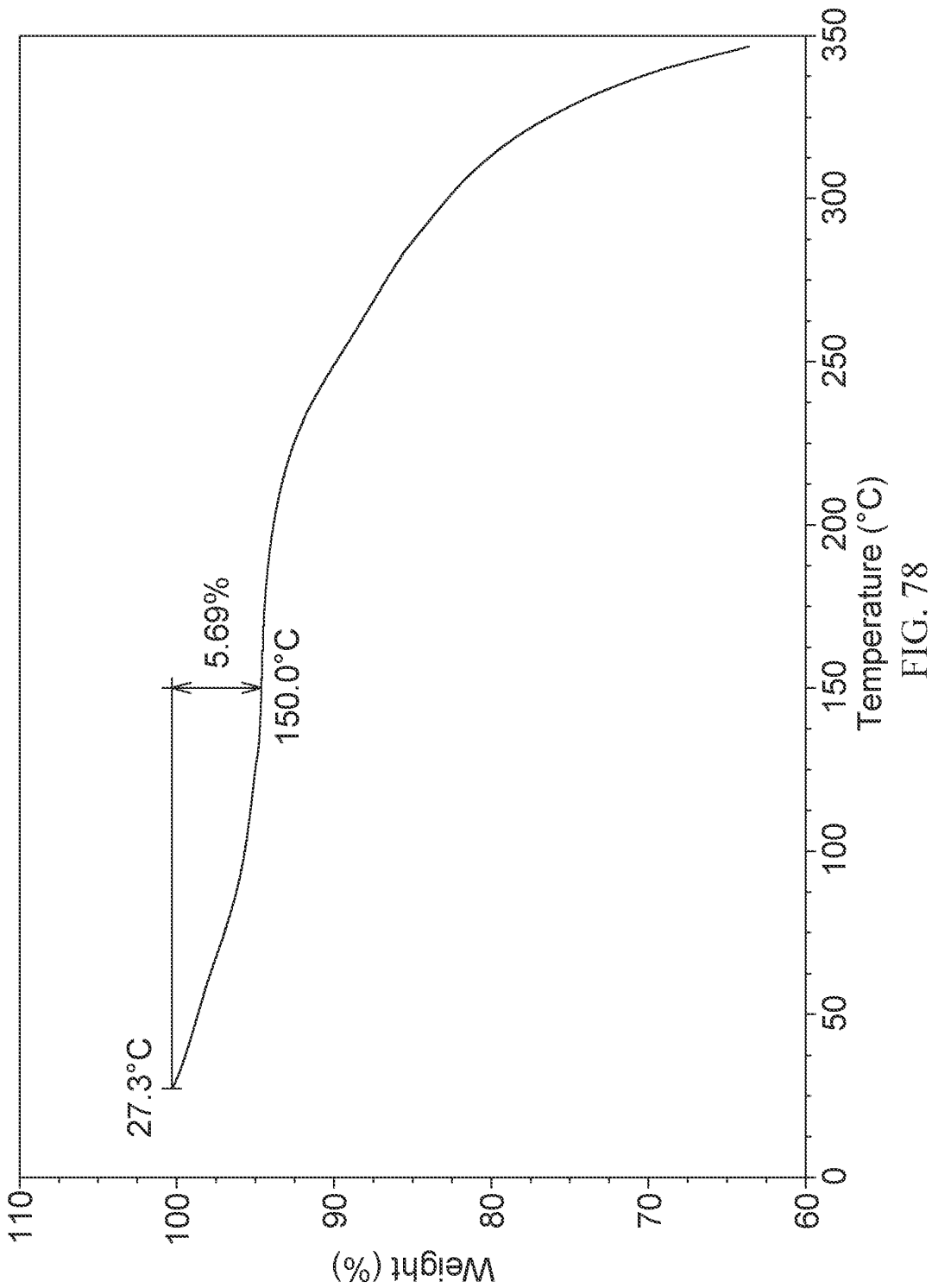


FIG. 77



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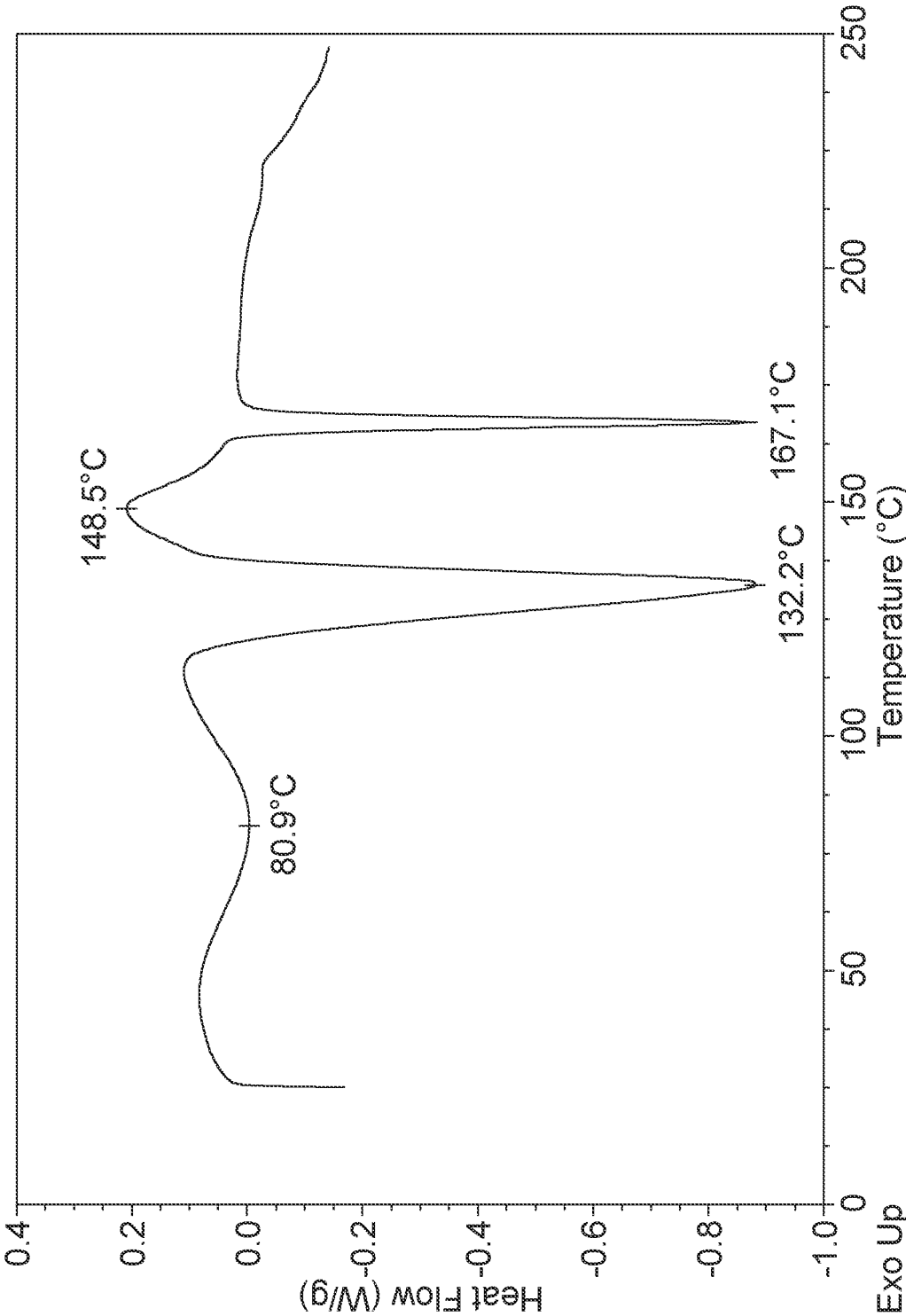


FIG. 79

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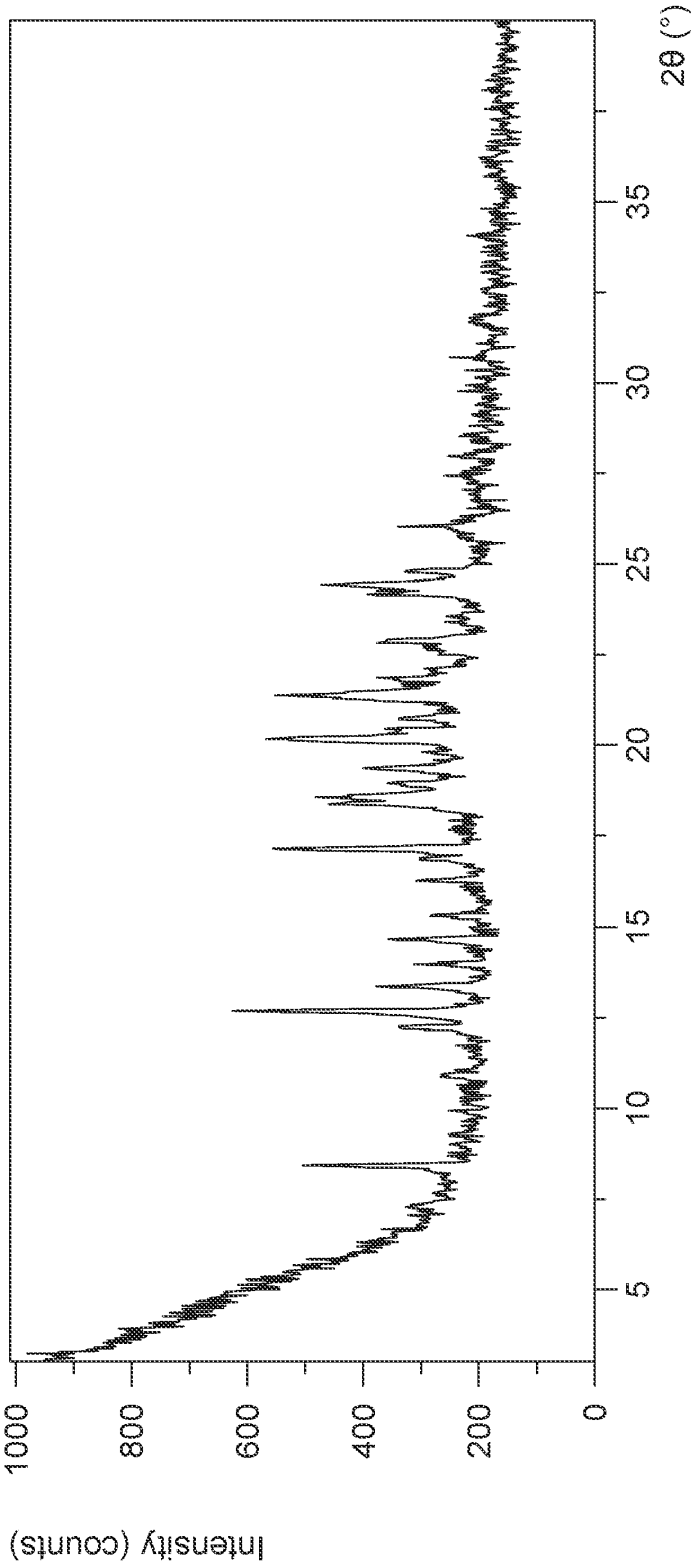


FIG. 80

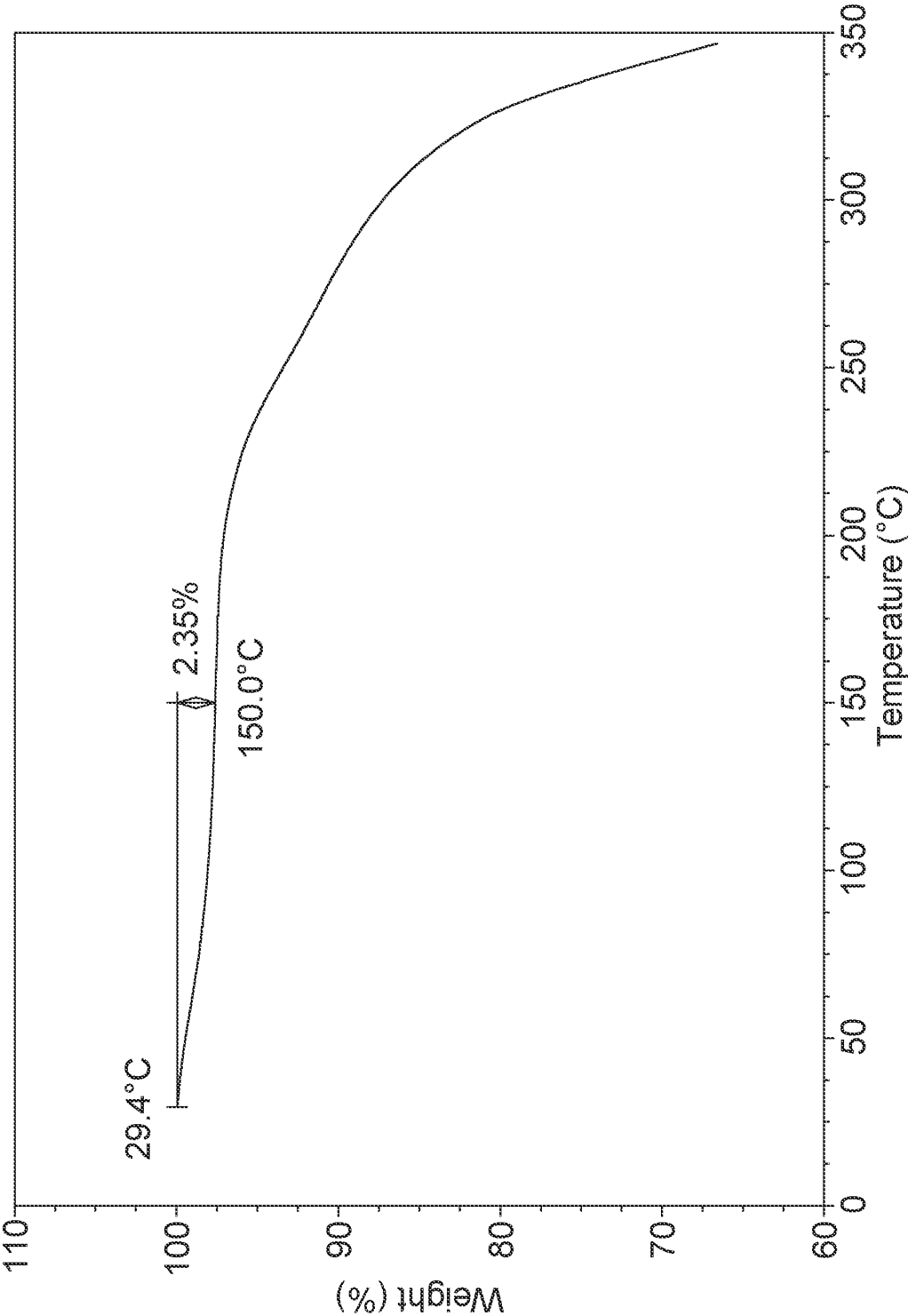


FIG. 81

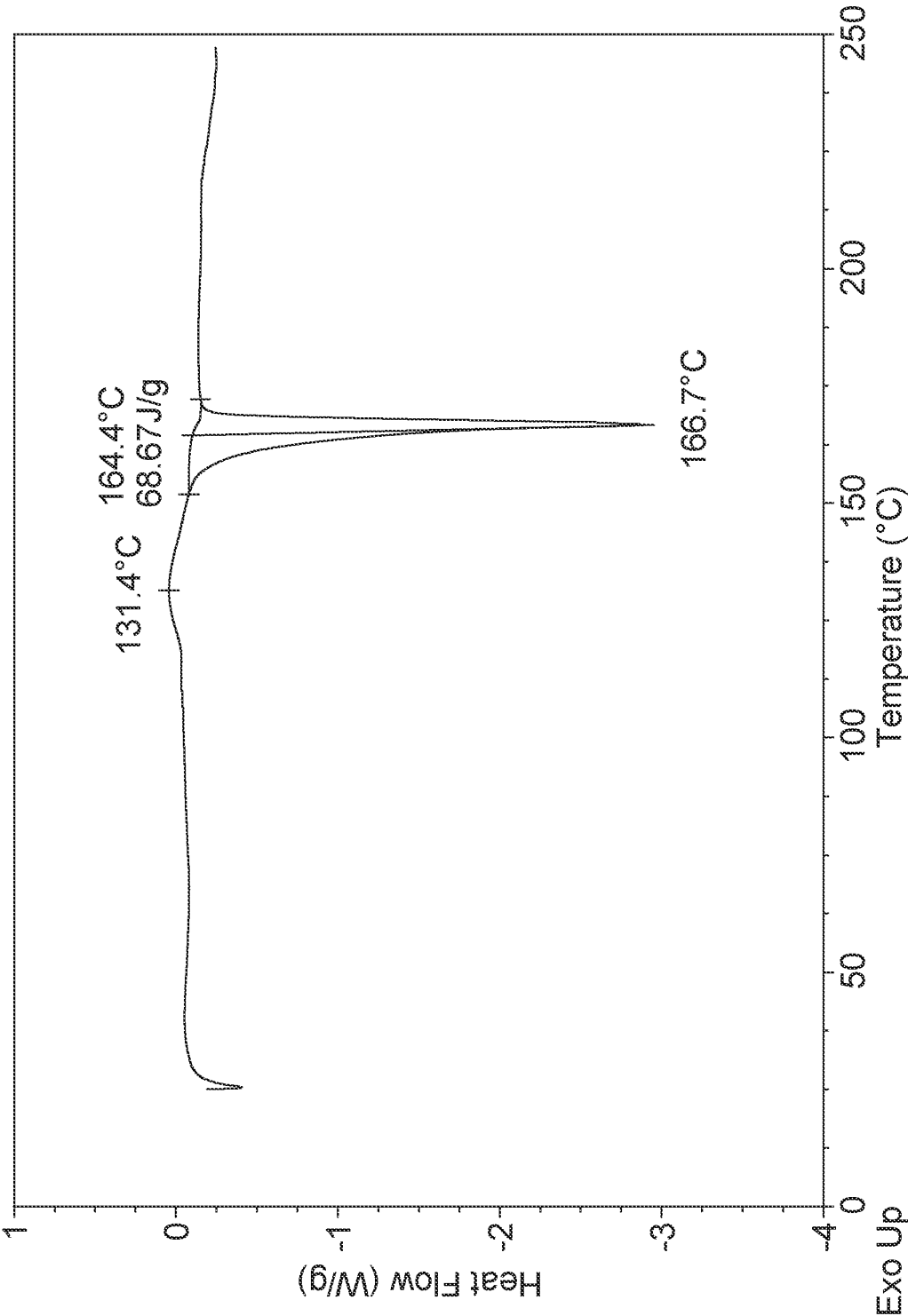


FIG. 82

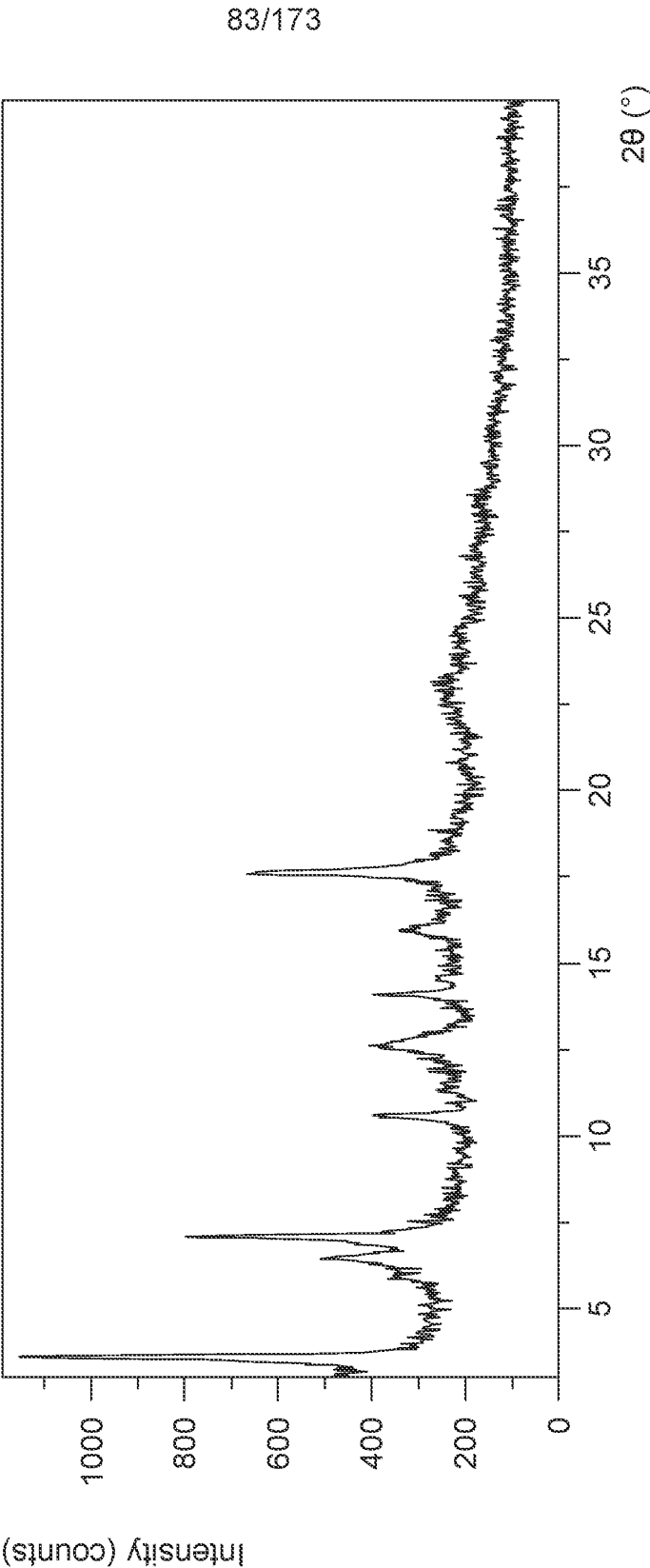


FIG. 83

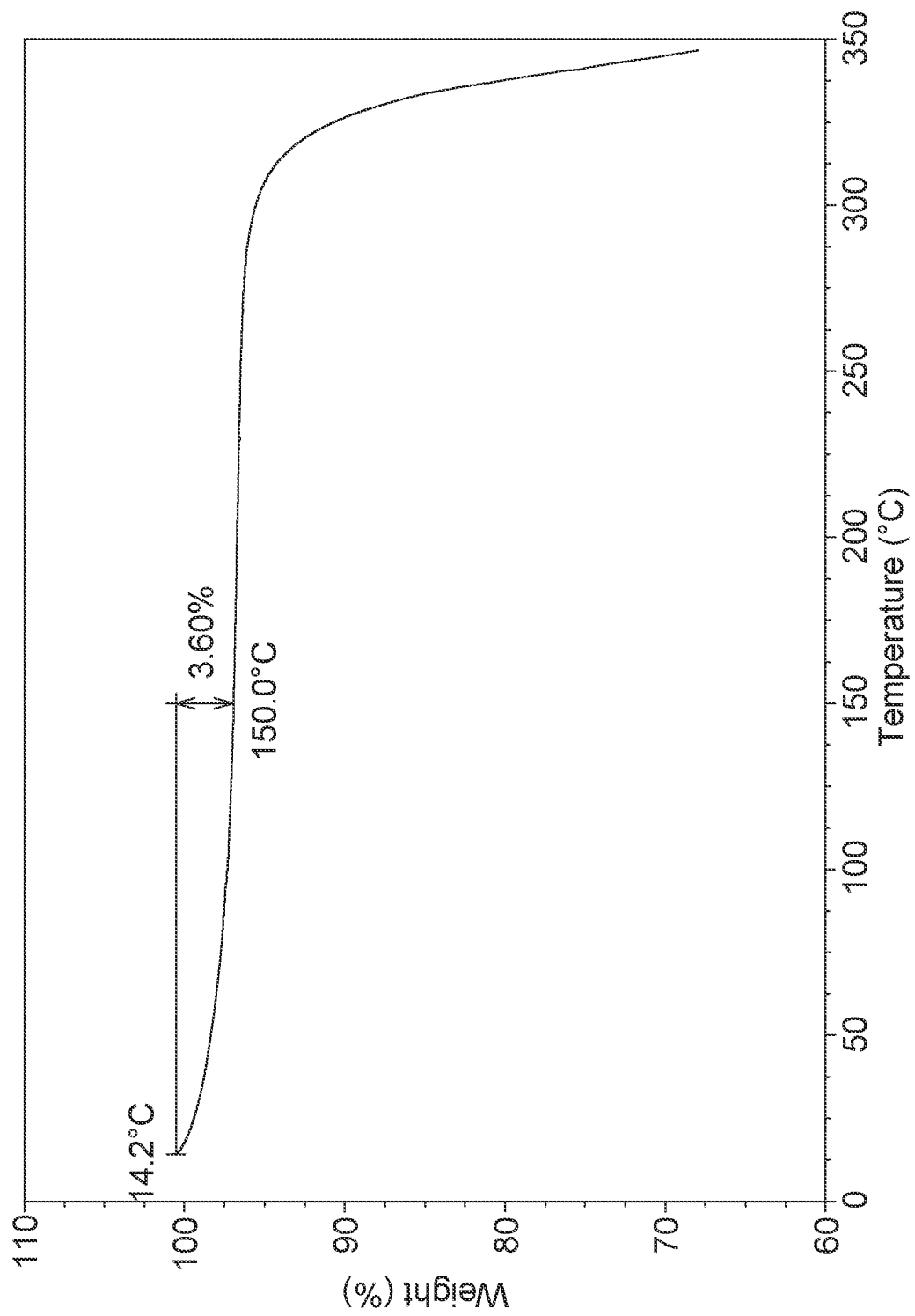


FIG. 84

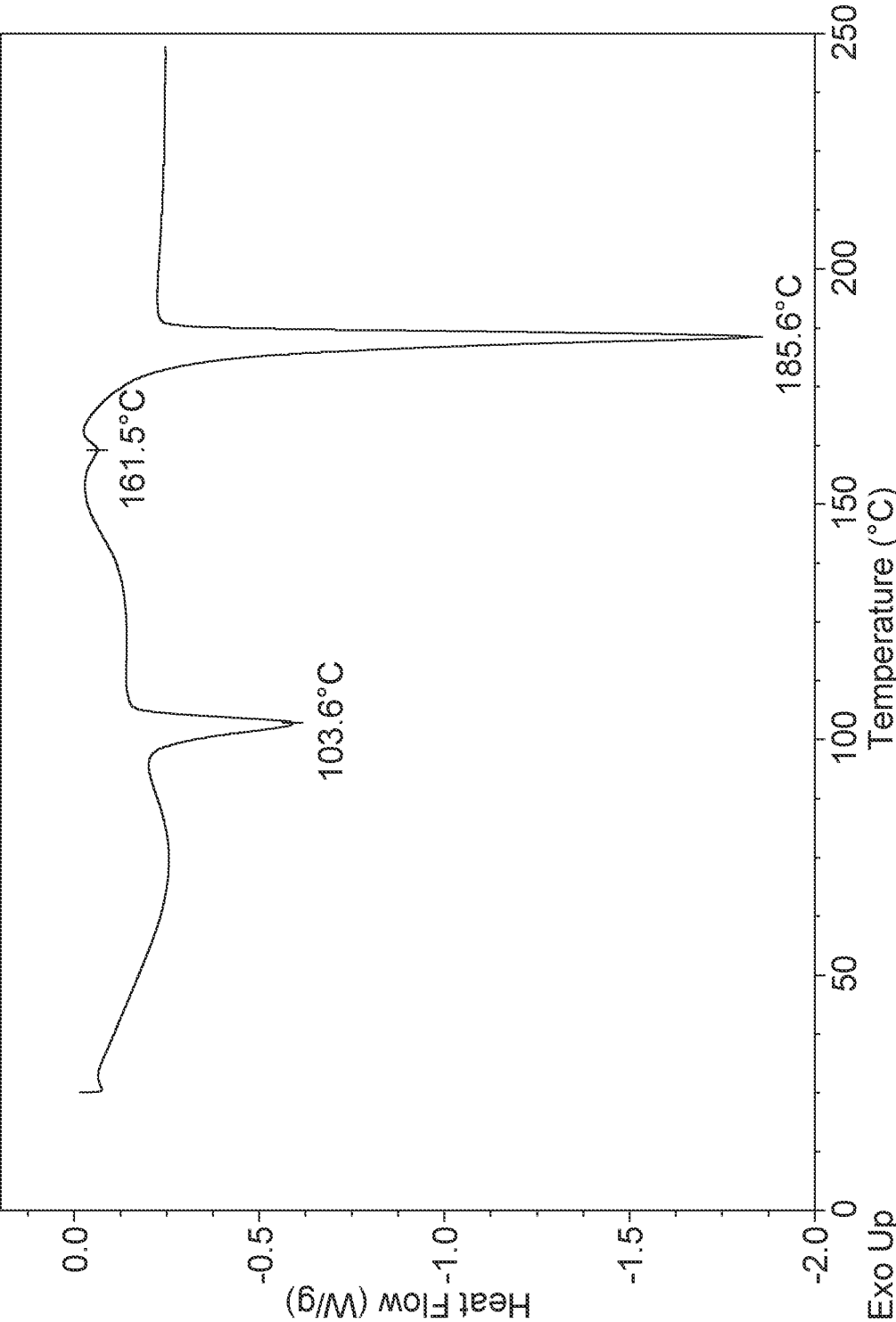


FIG. 85

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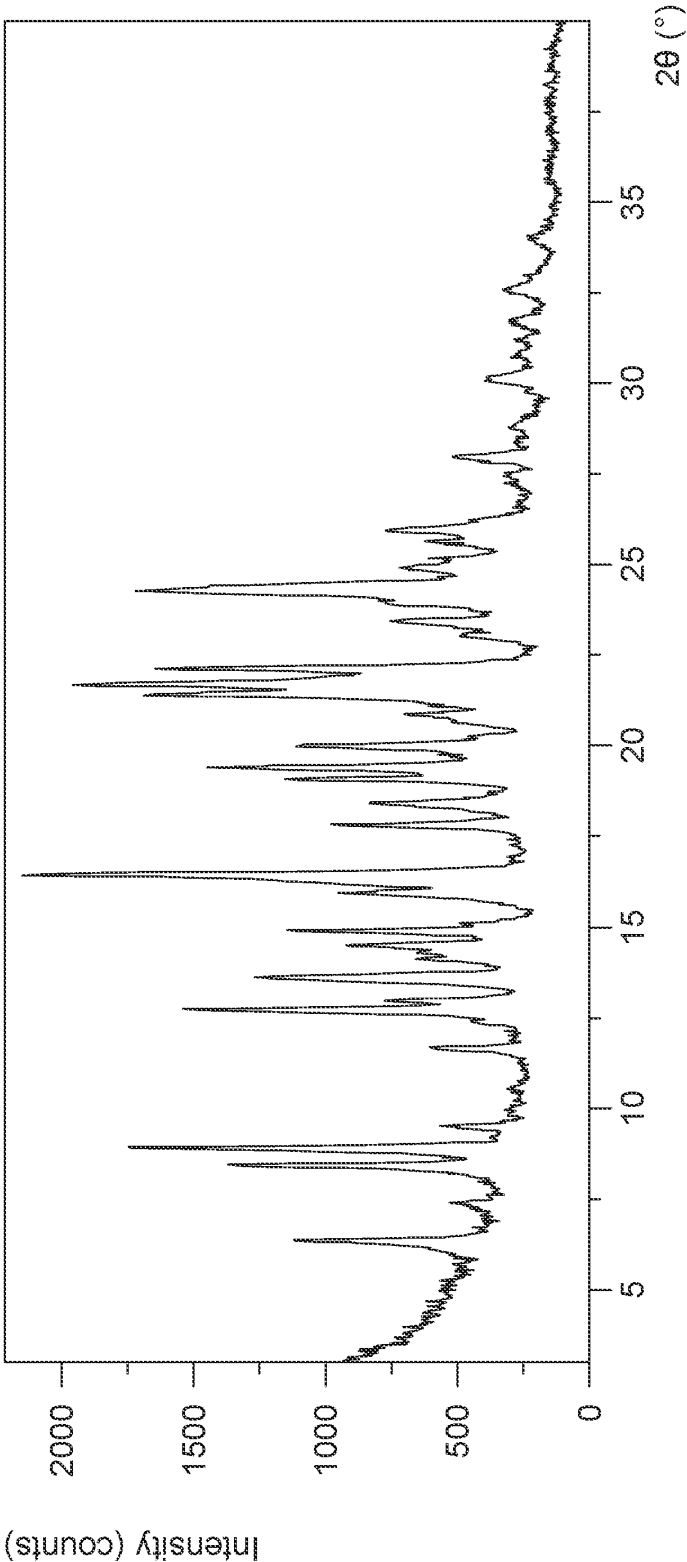


FIG. 86

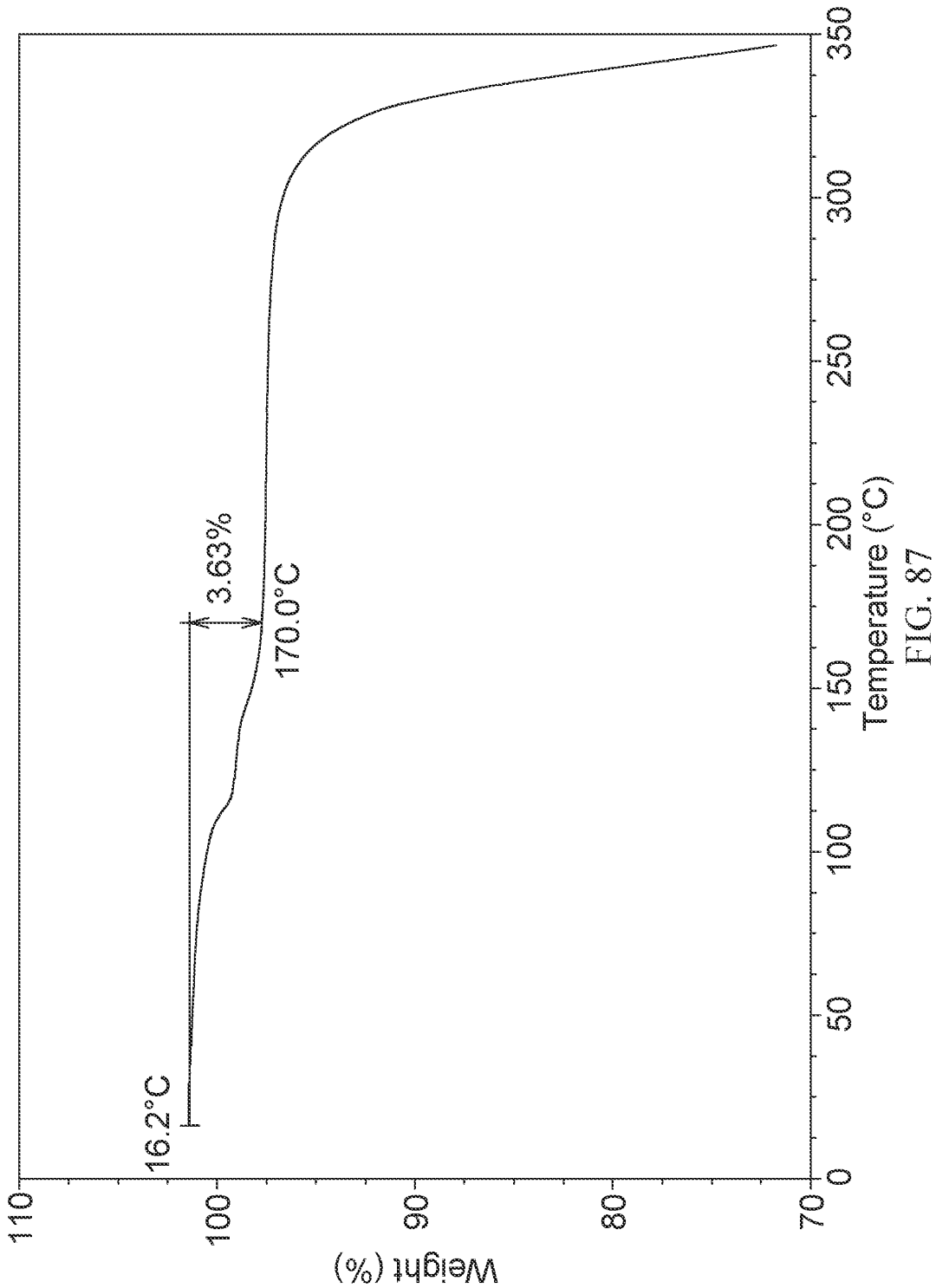


FIG. 87

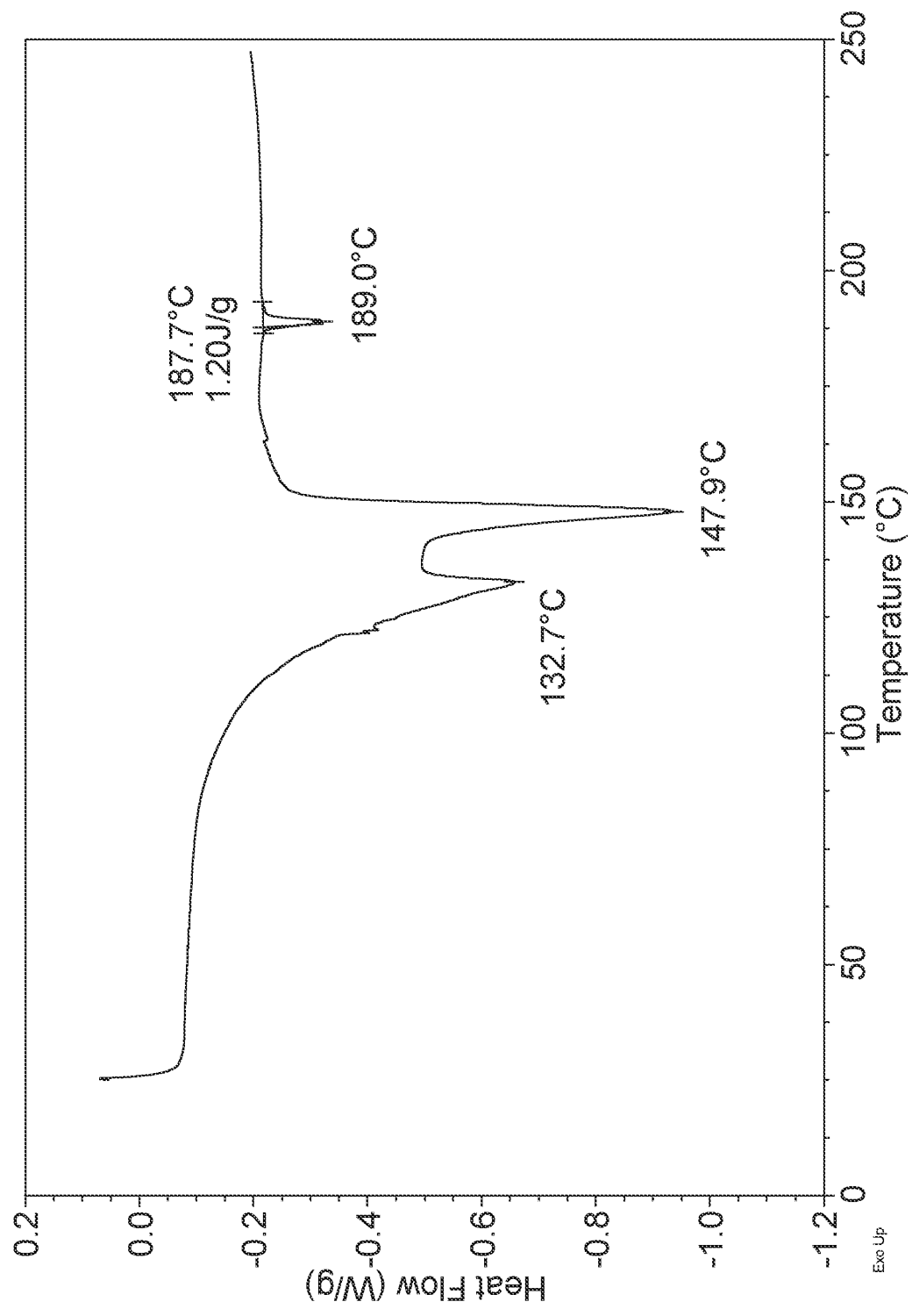


FIG. 88

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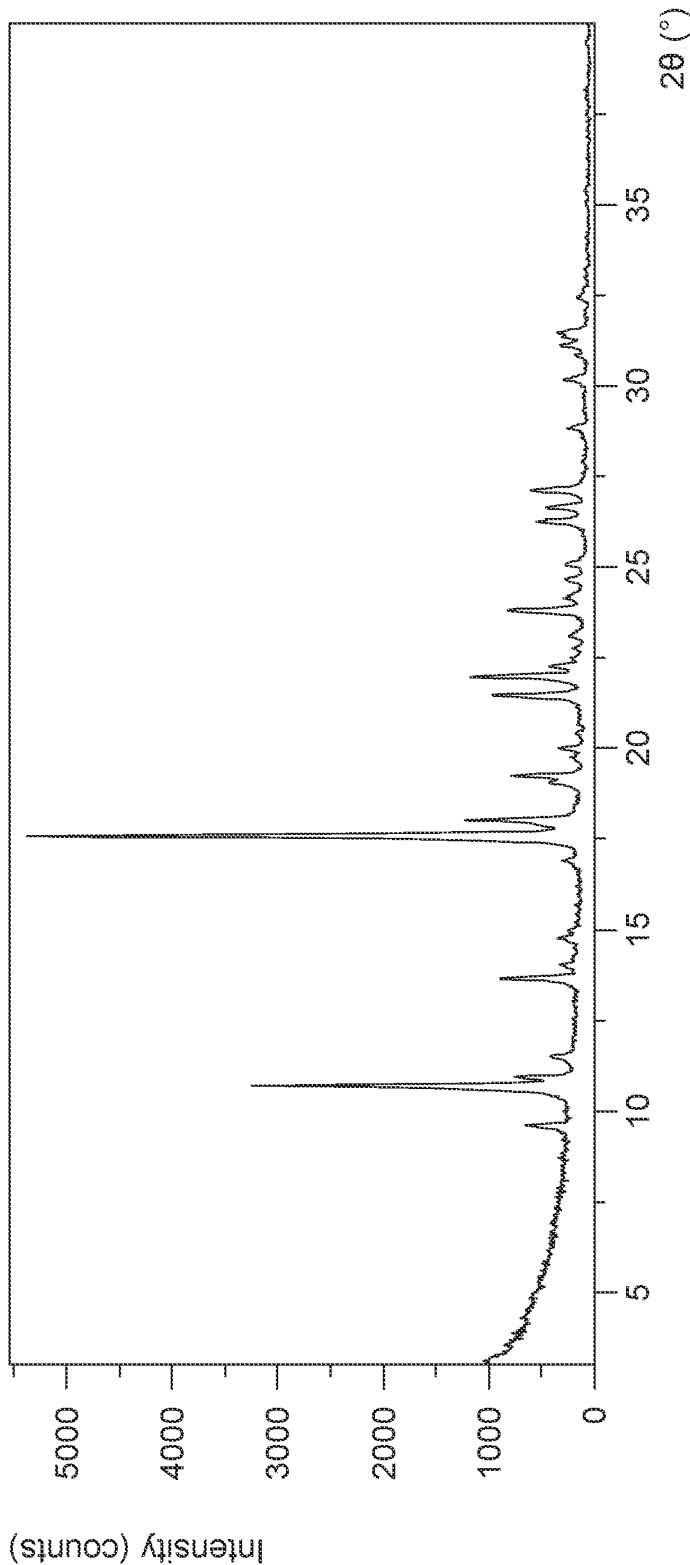


FIG. 89

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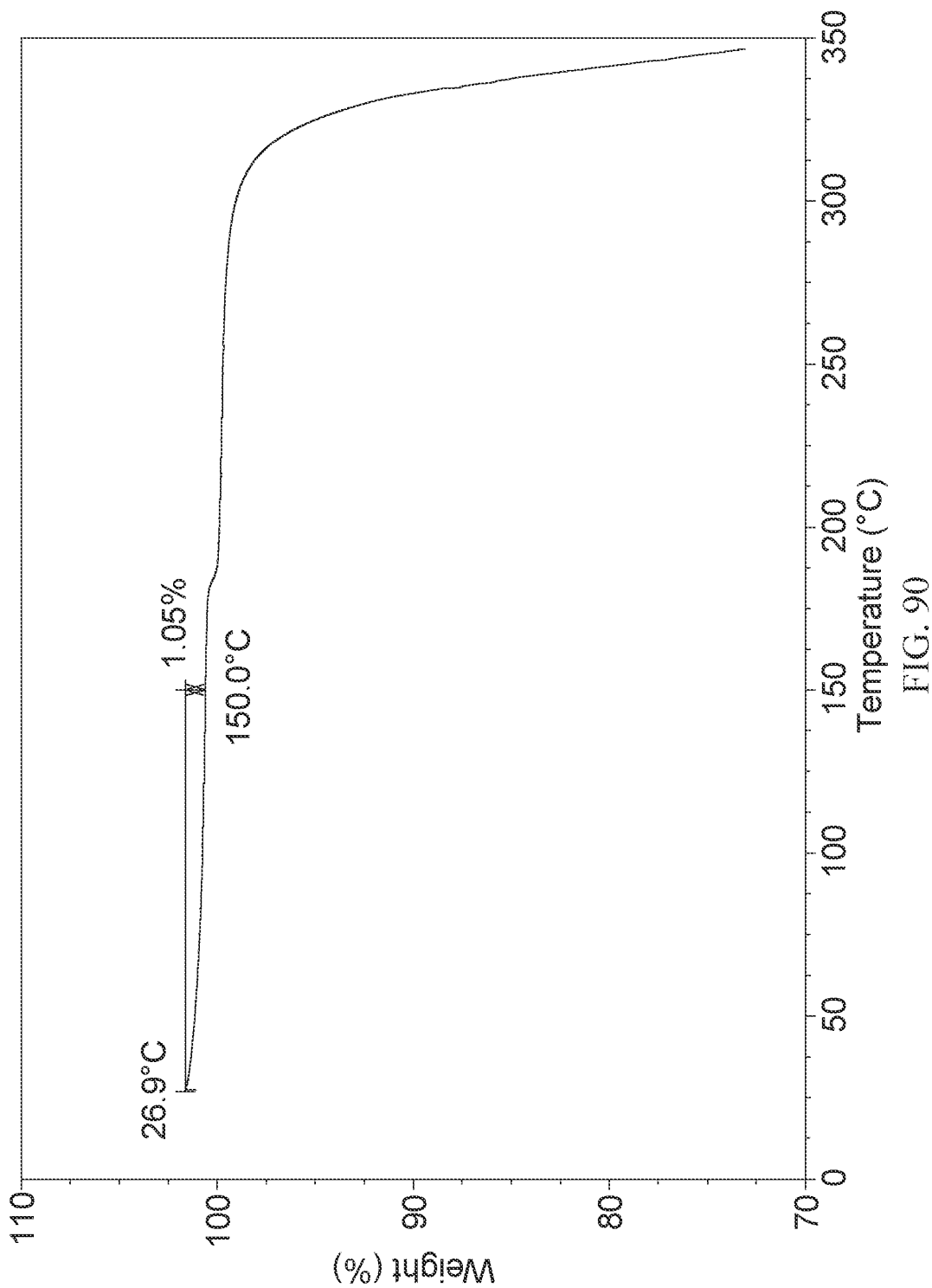


FIG. 90

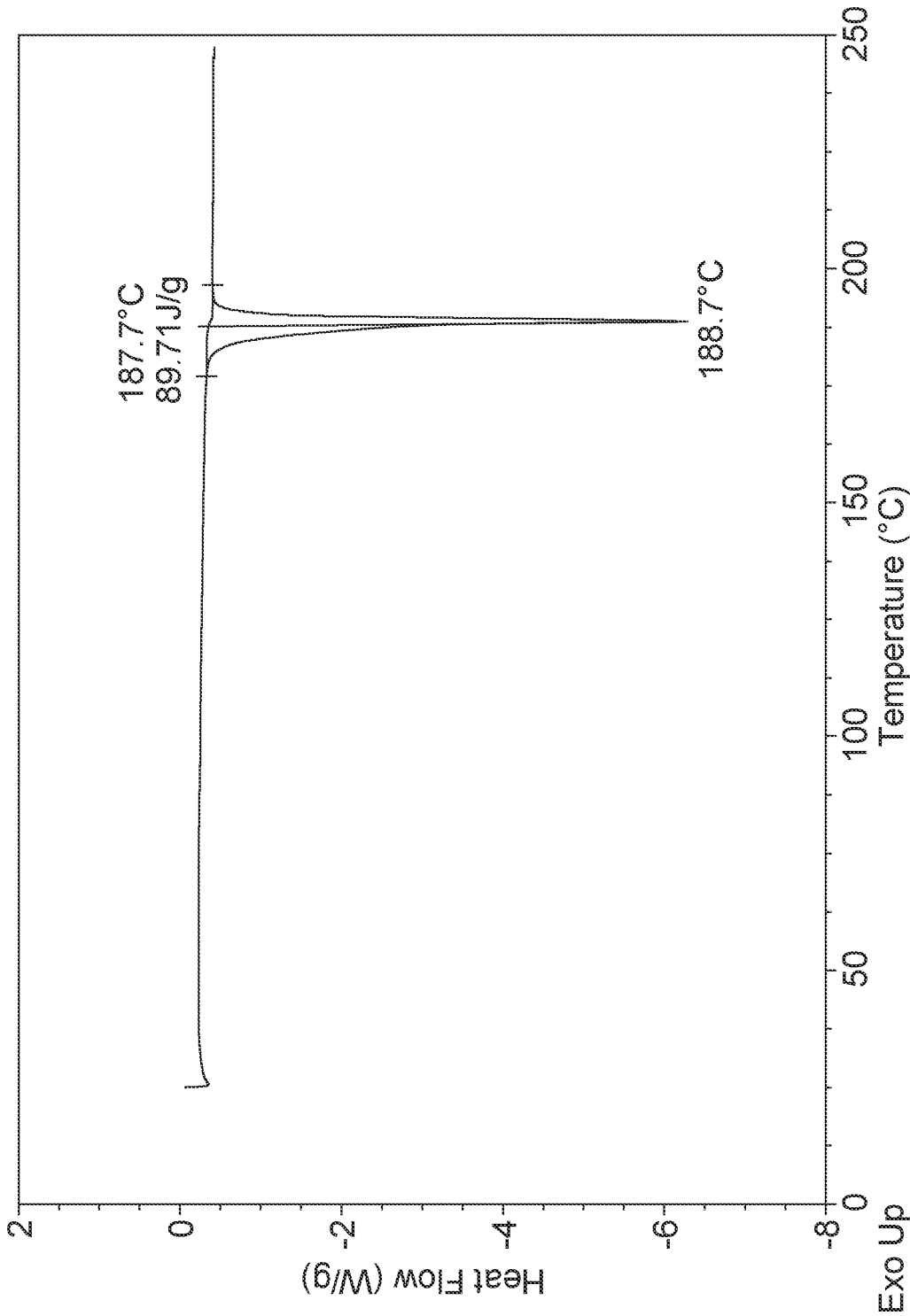


FIG. 9I

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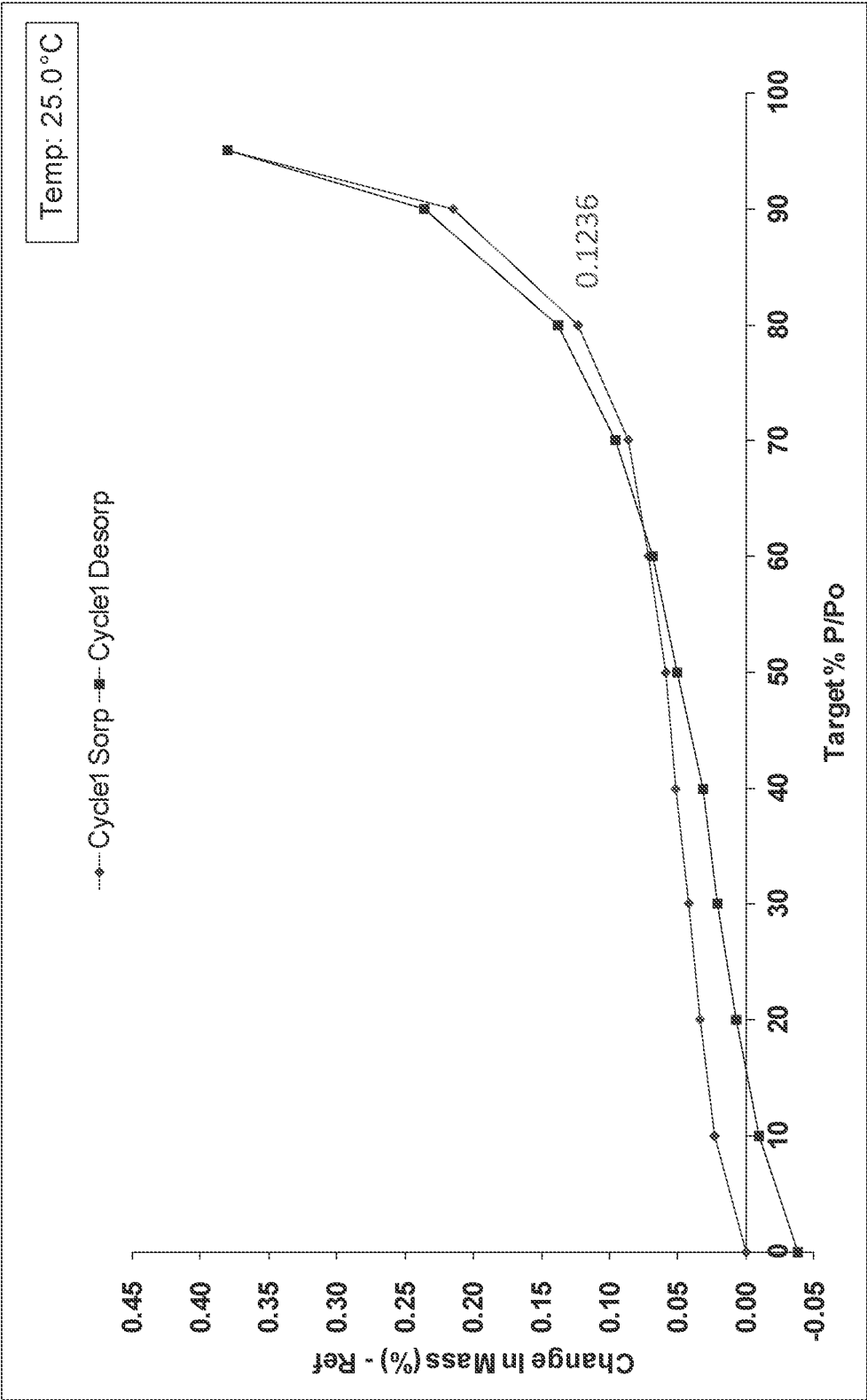


FIG. 92

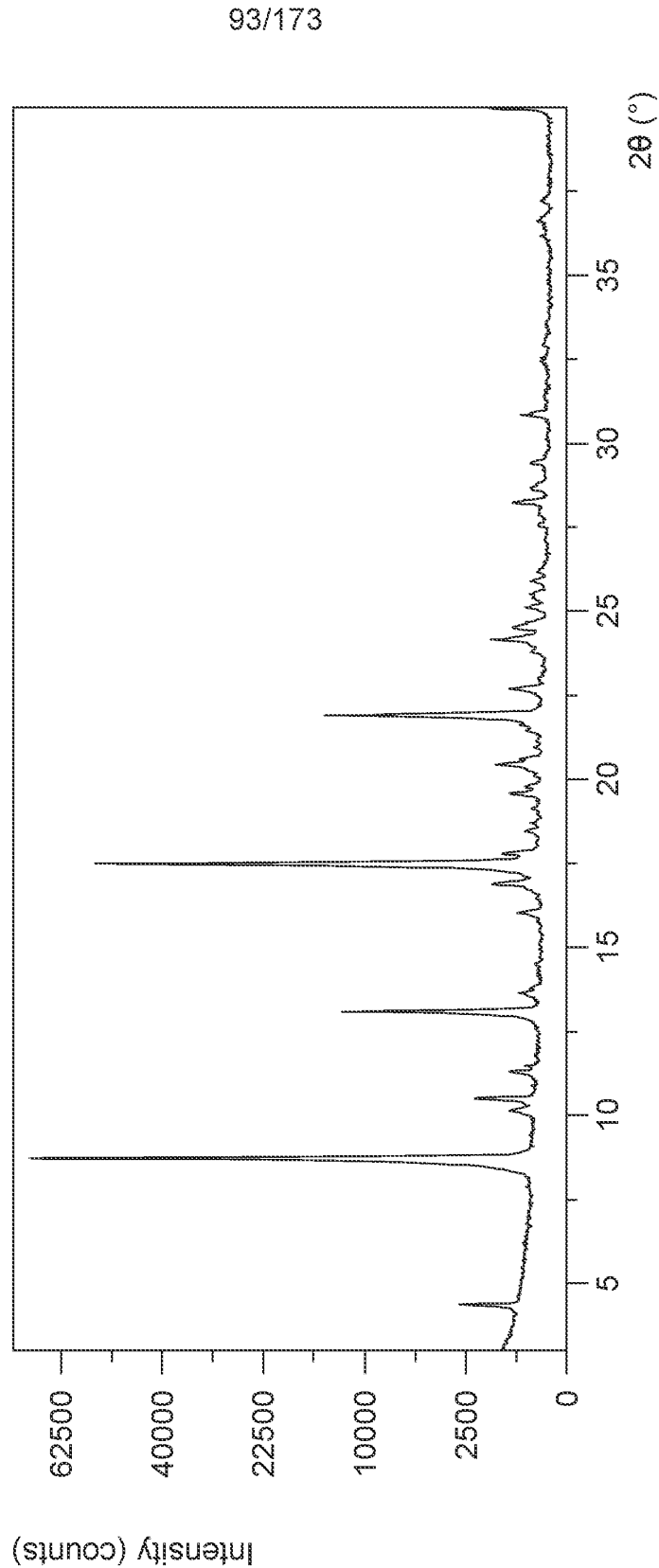


FIG. 93

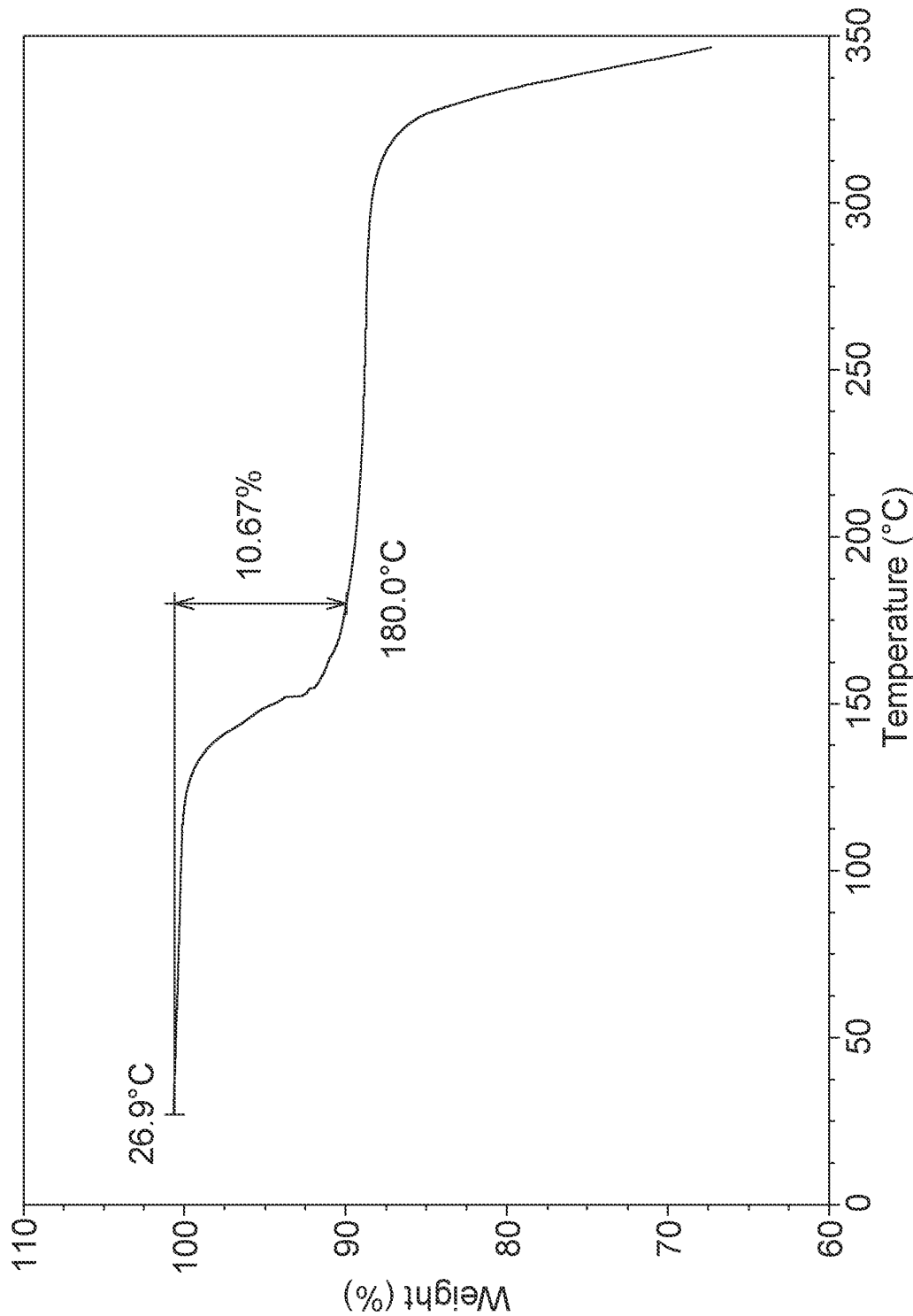


FIG. 94

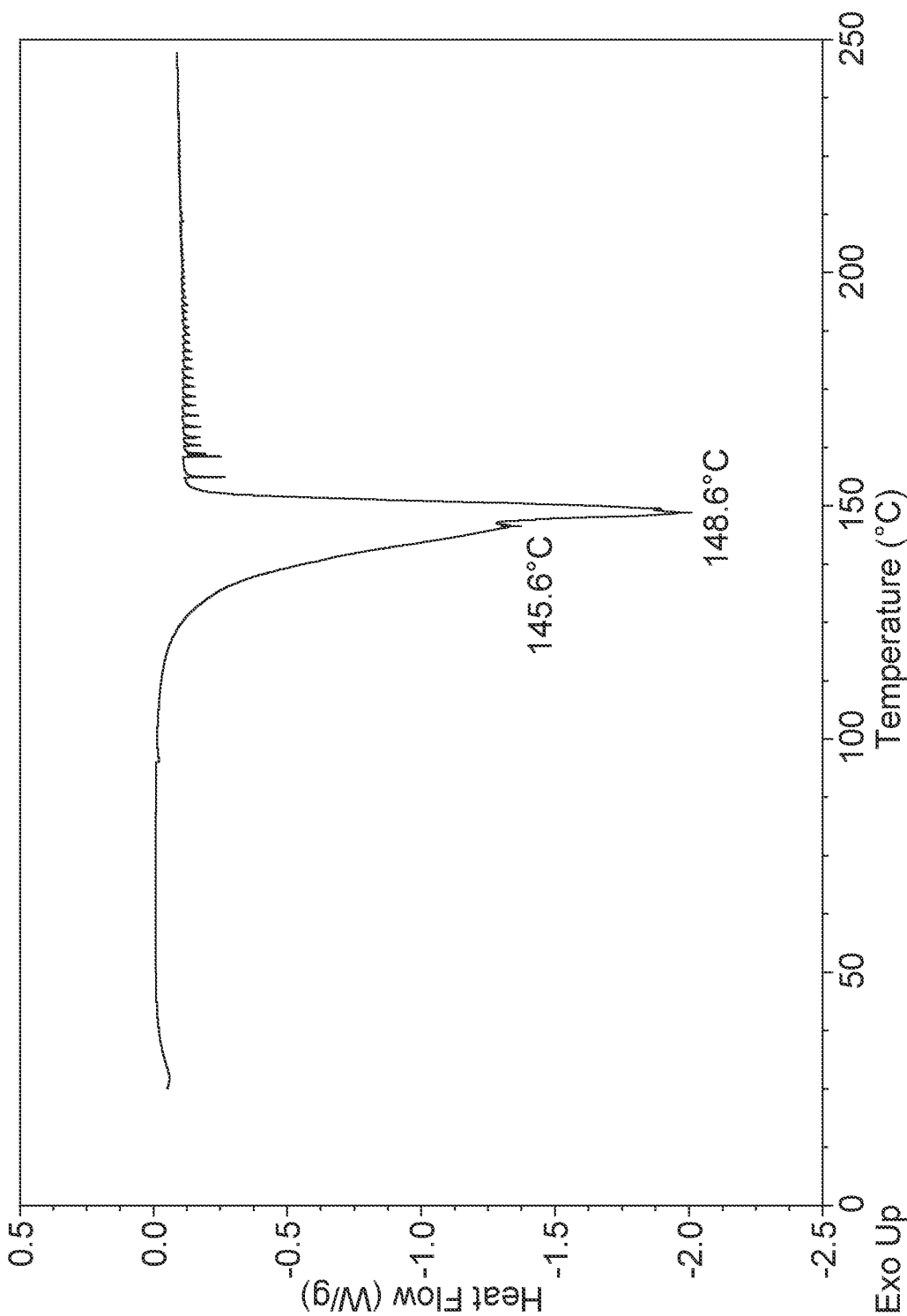


FIG. 95

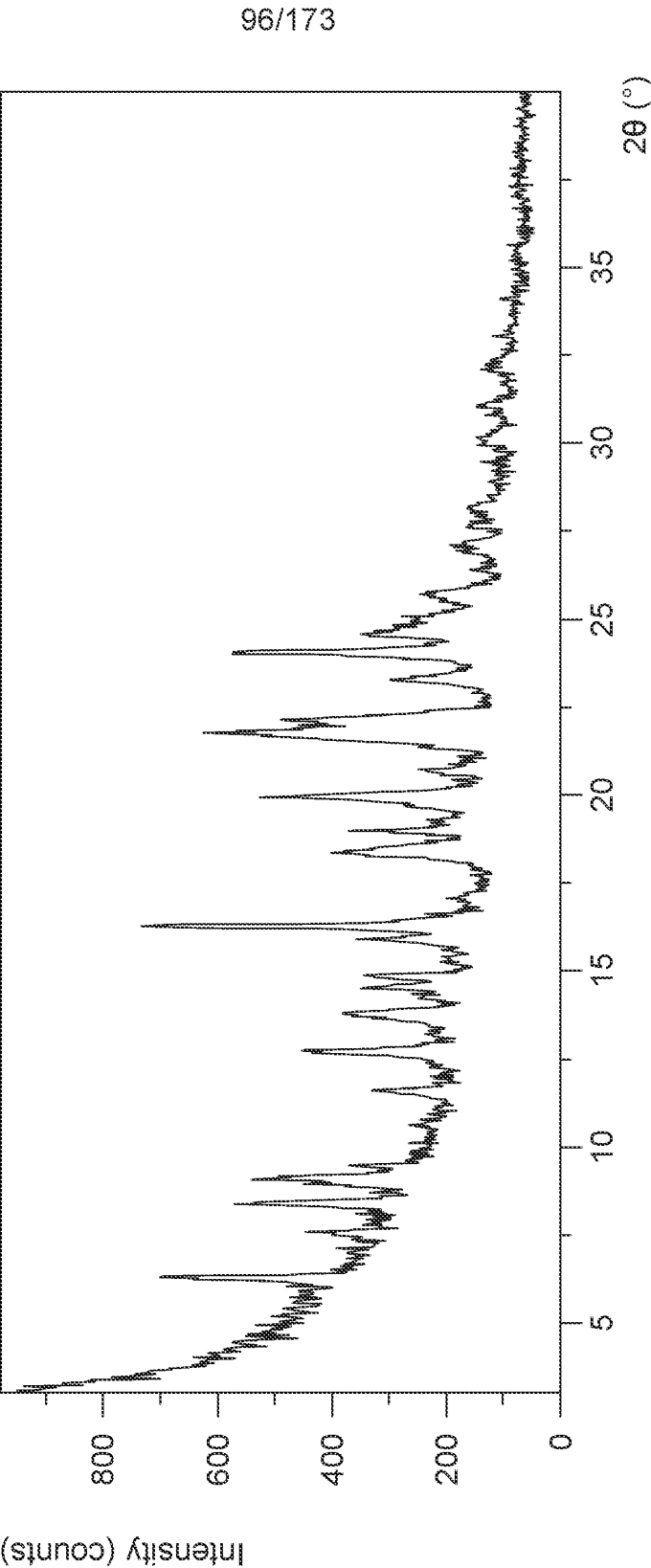


FIG. 96

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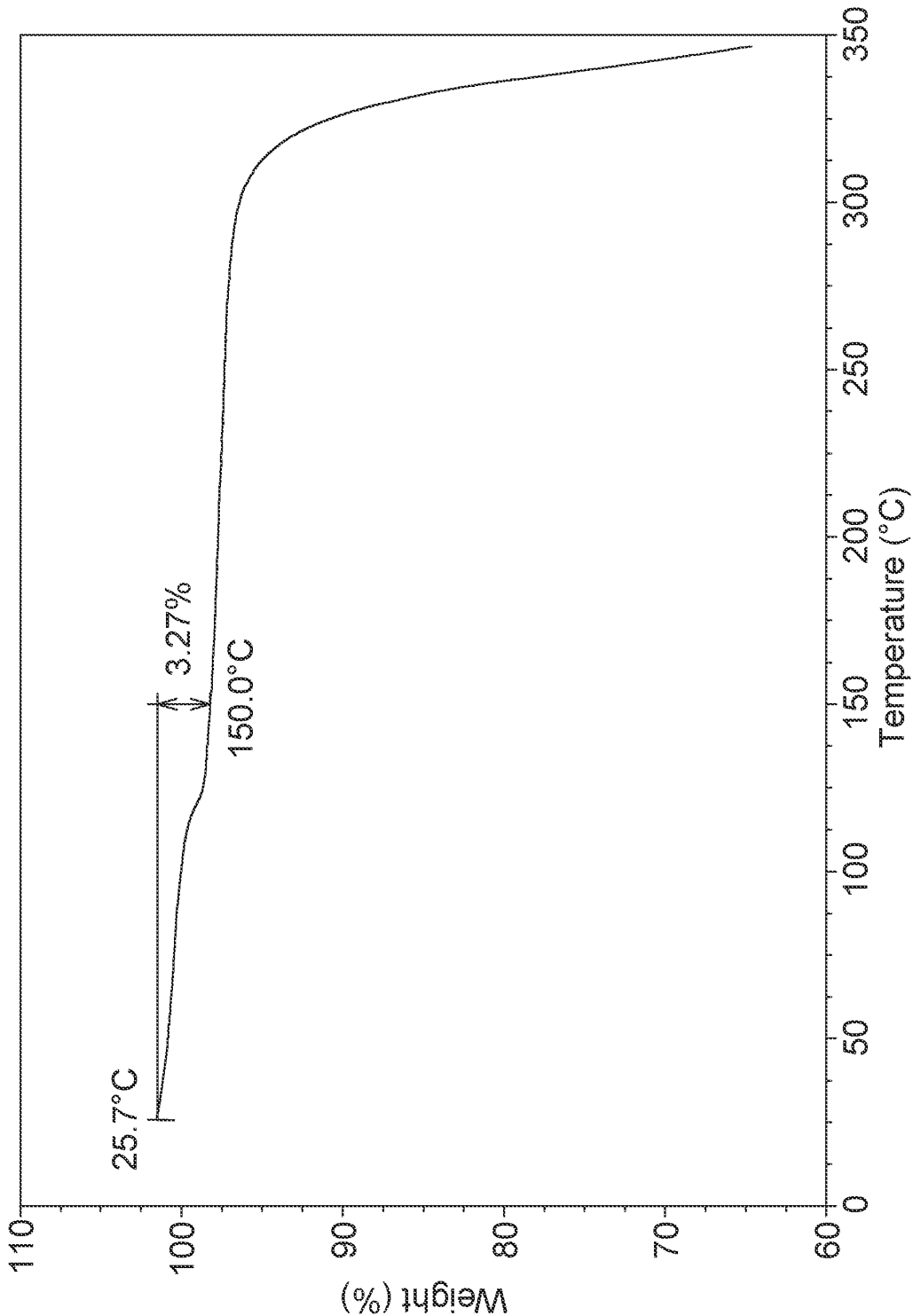


FIG. 97

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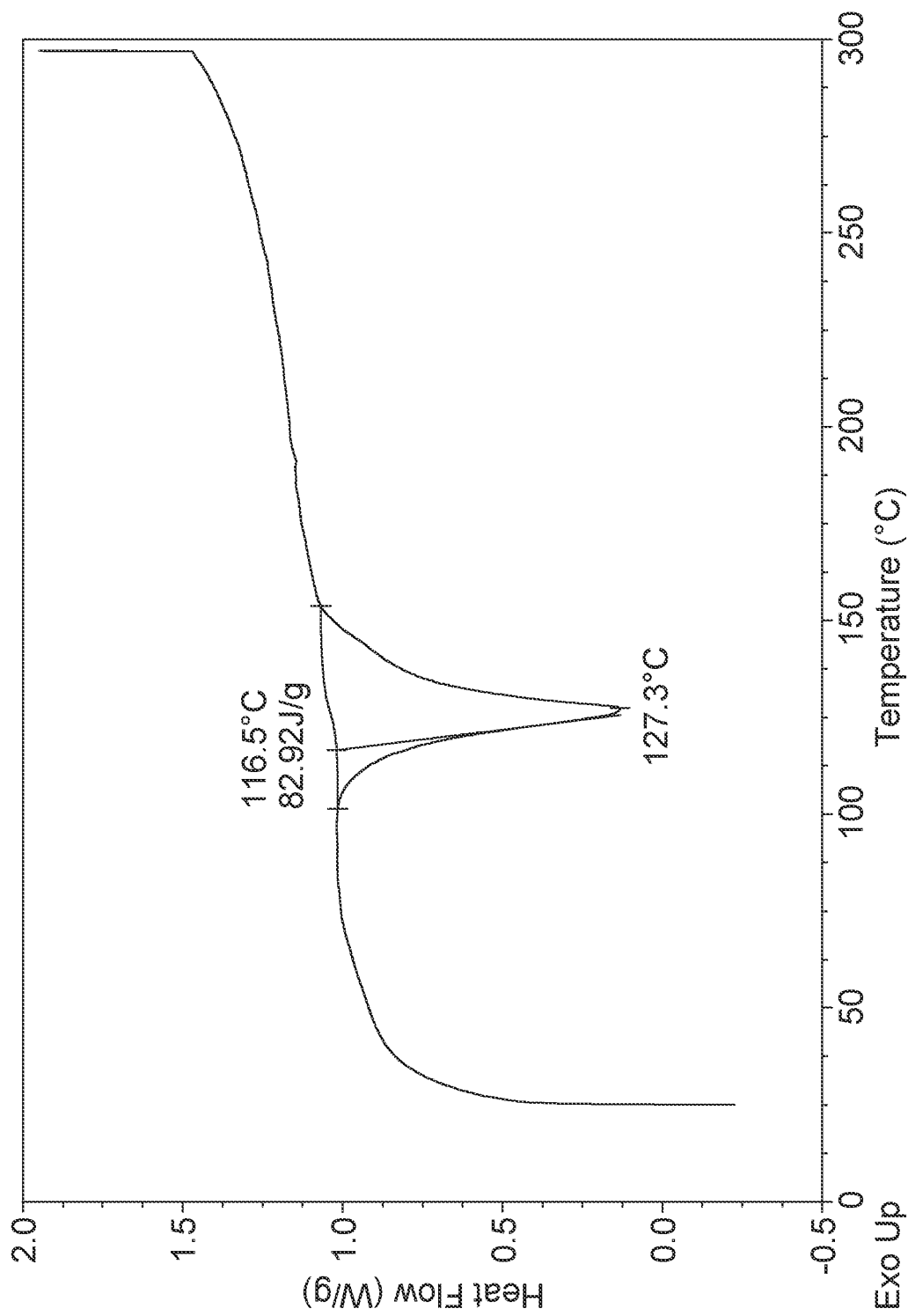


FIG. 98

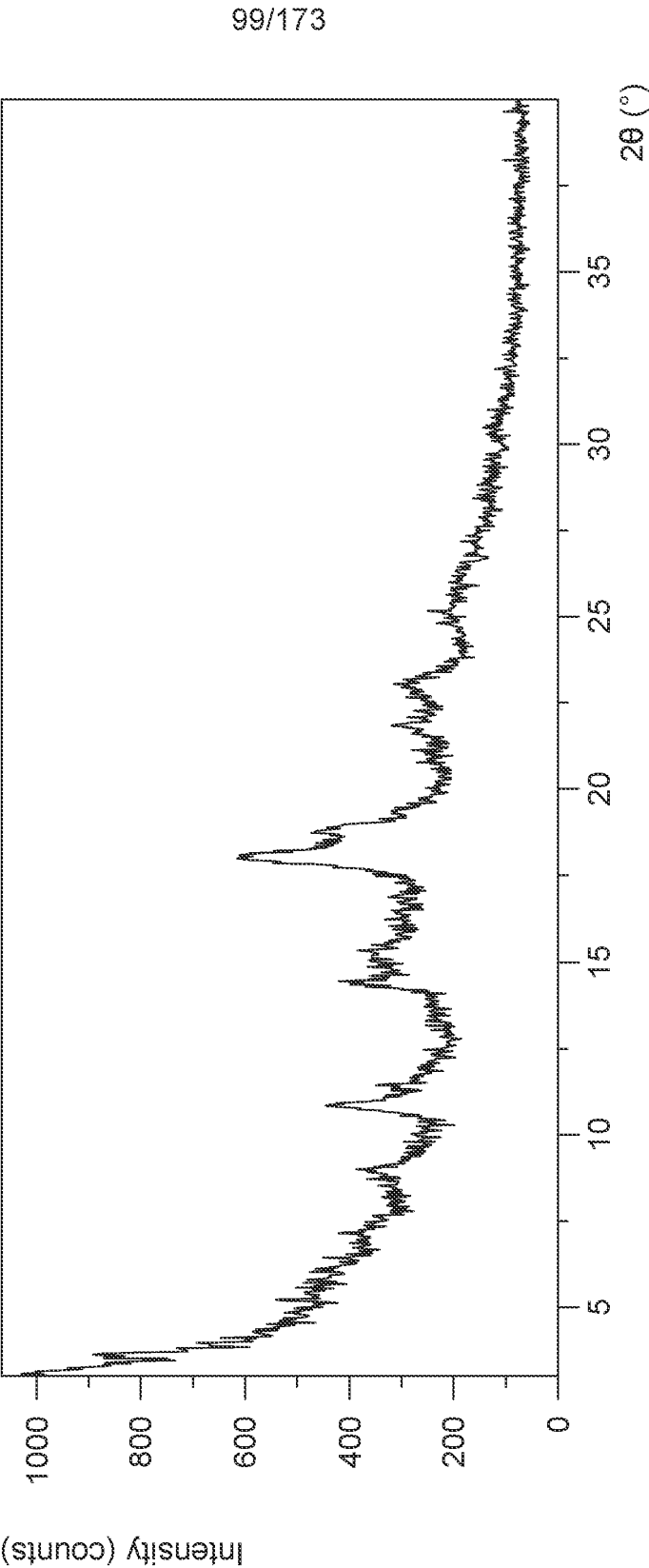


FIG. 99

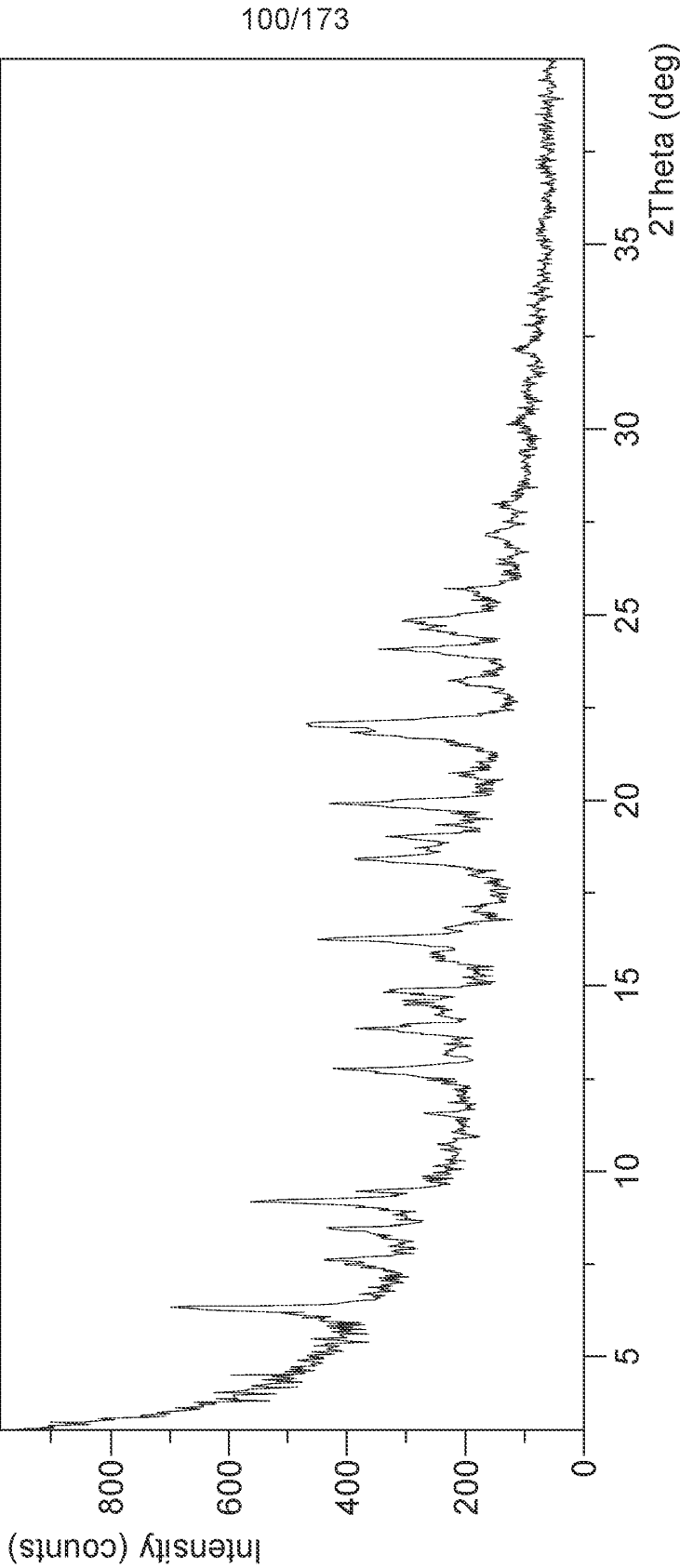


FIG. 100

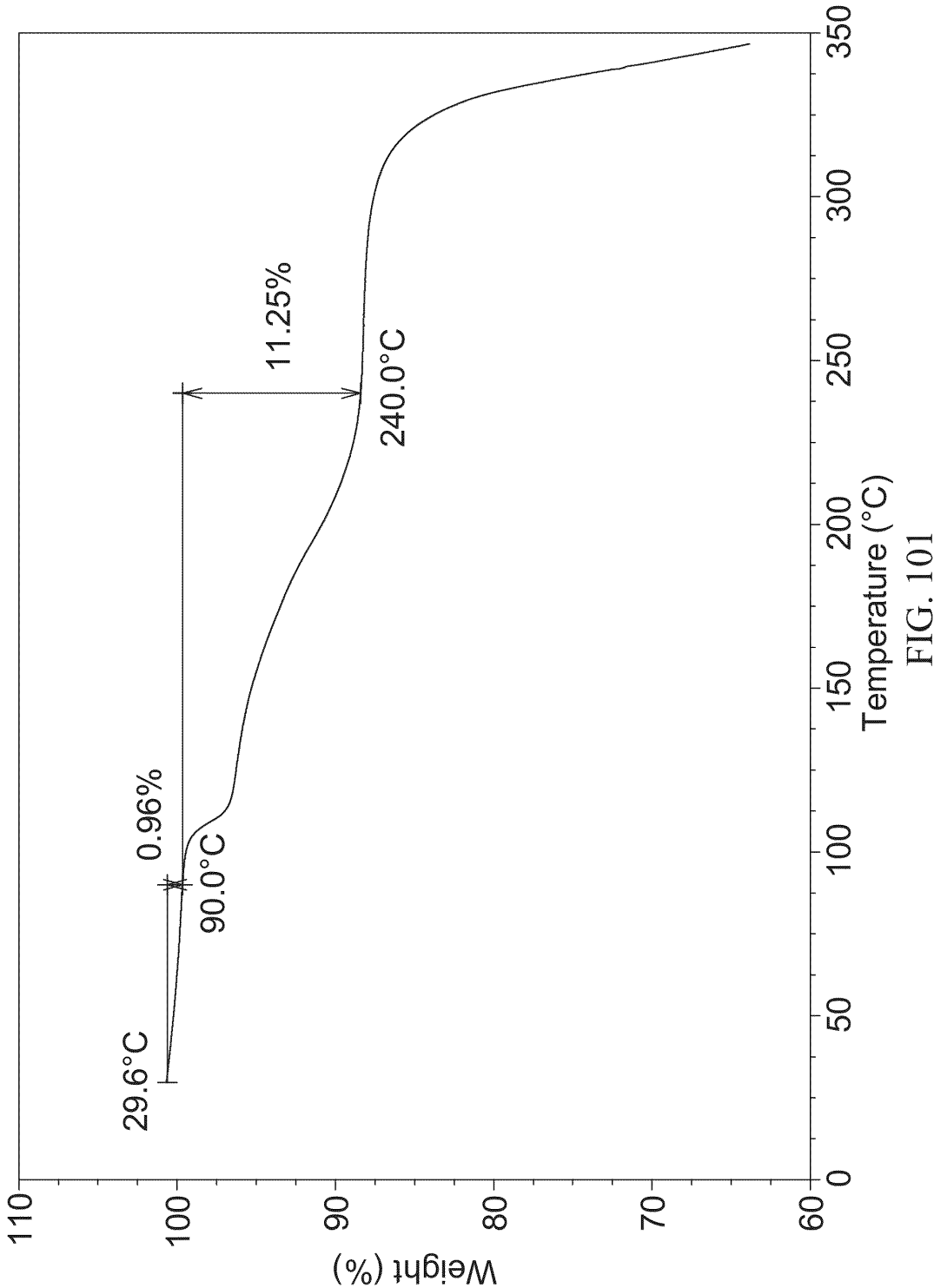


FIG. 101

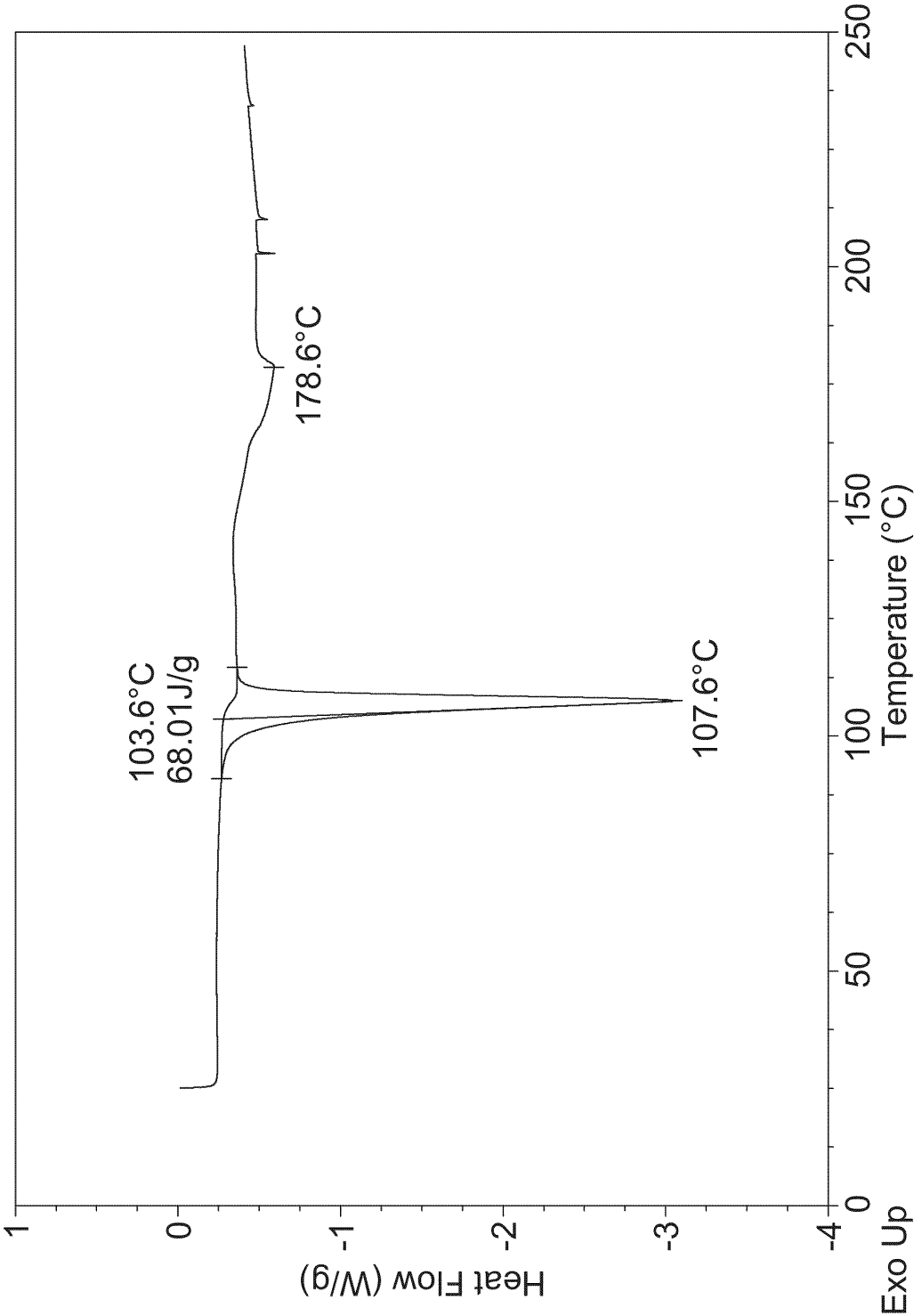


FIG. 102

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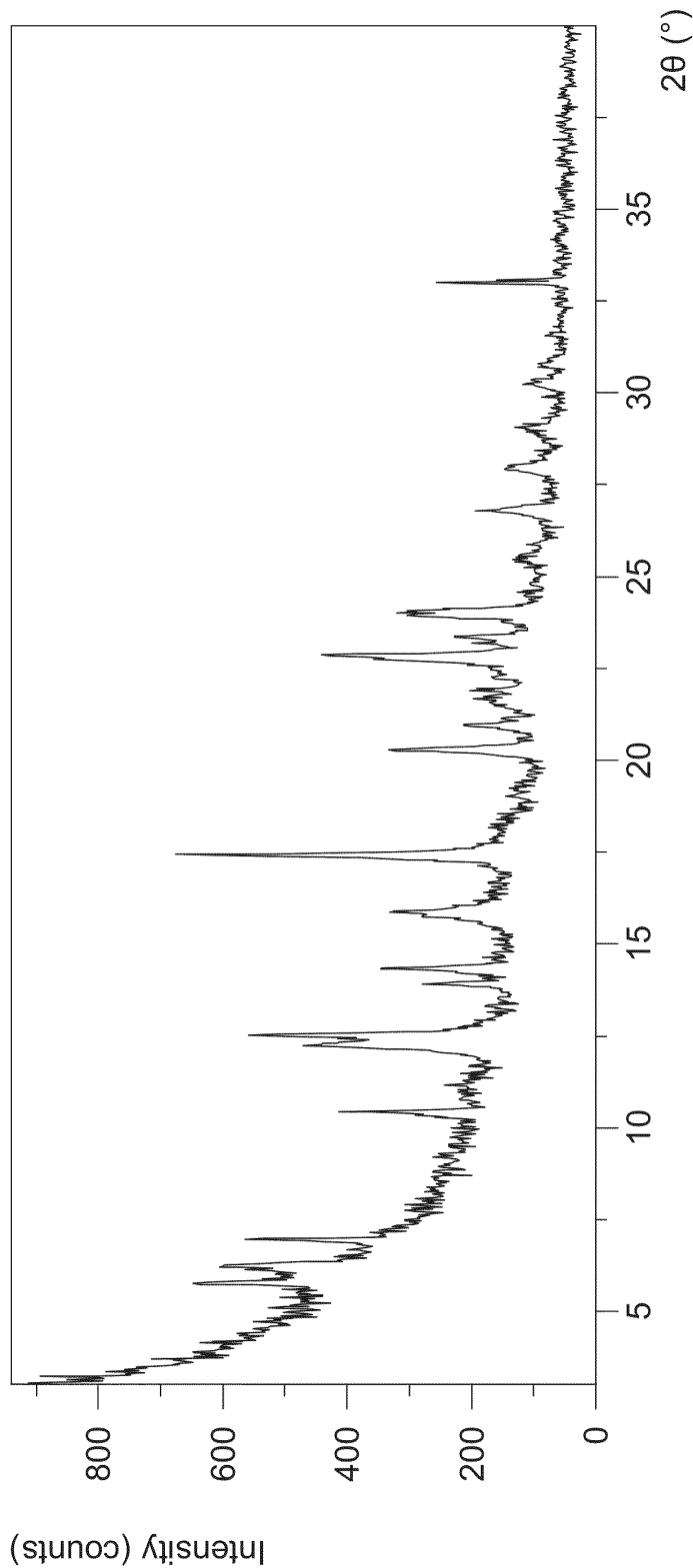


FIG. 103

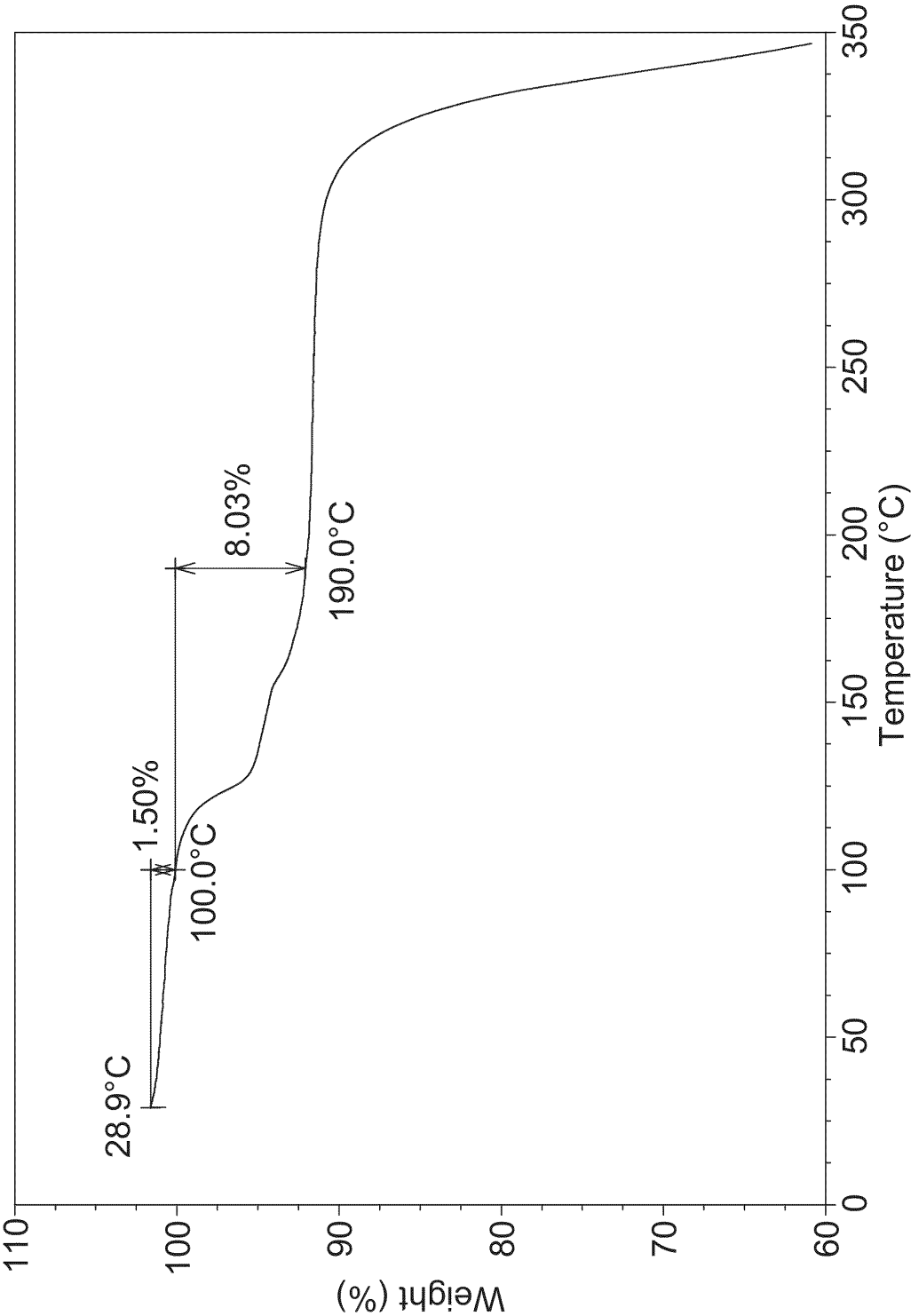


FIG. 104

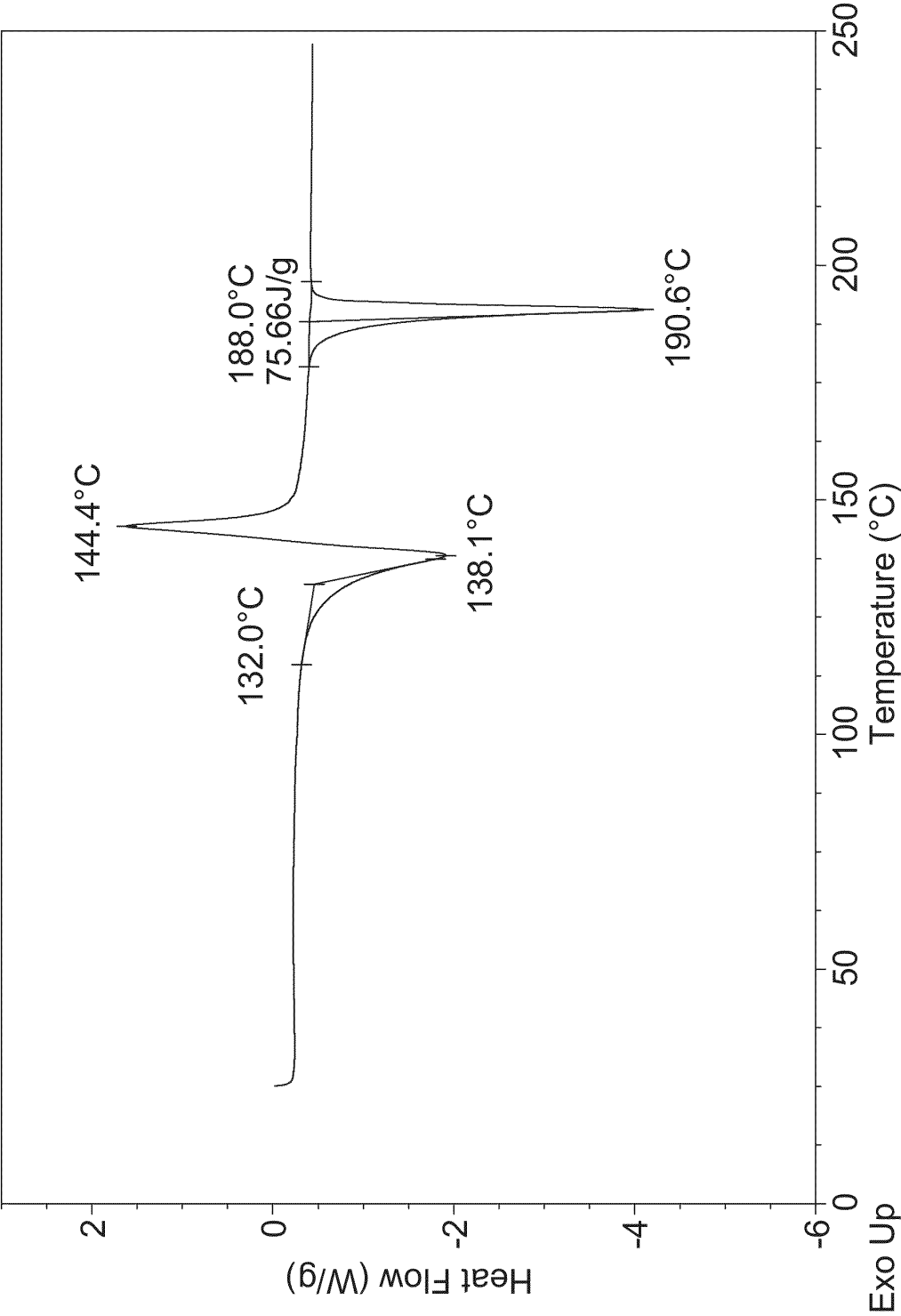
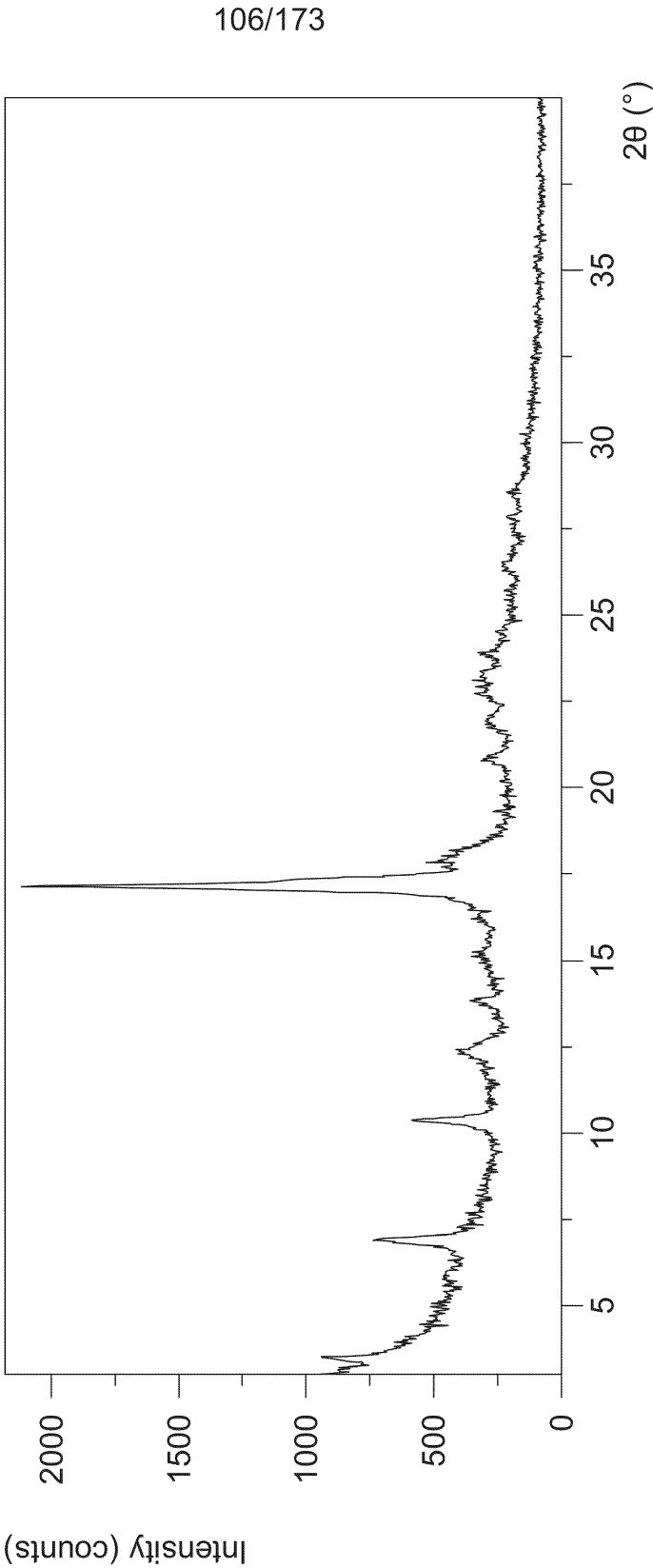


FIG. 105



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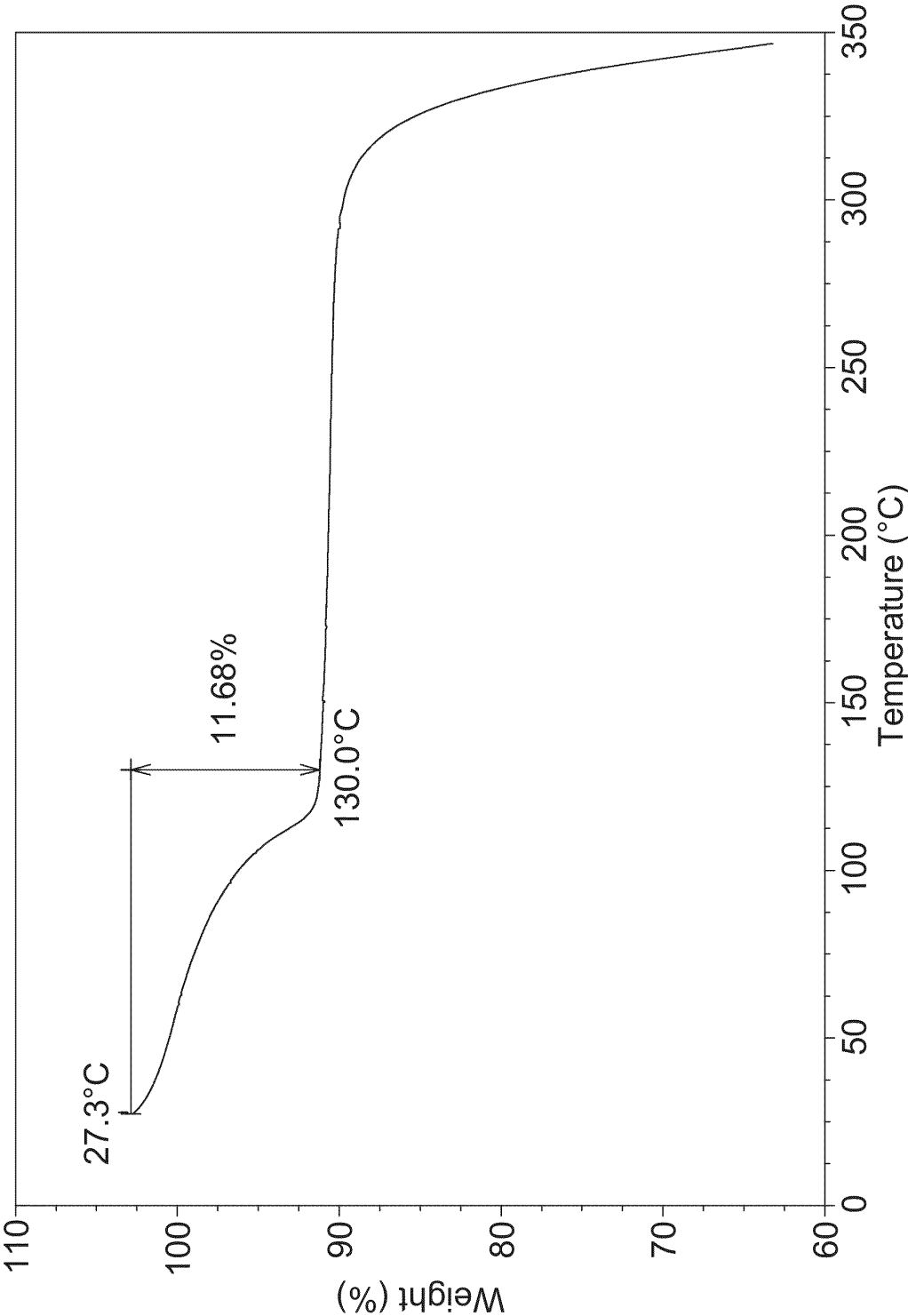


FIG. 107

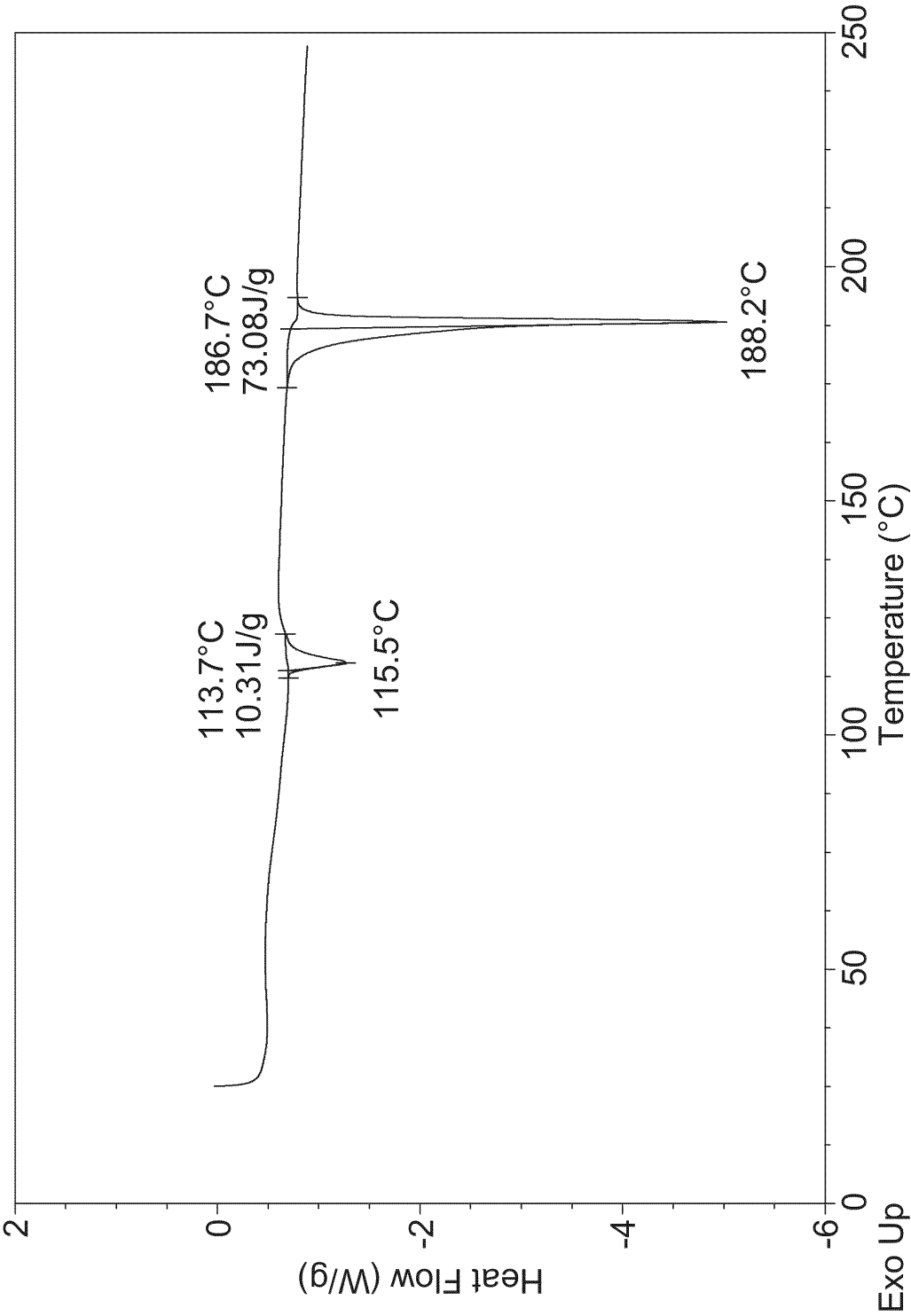


FIG. 108

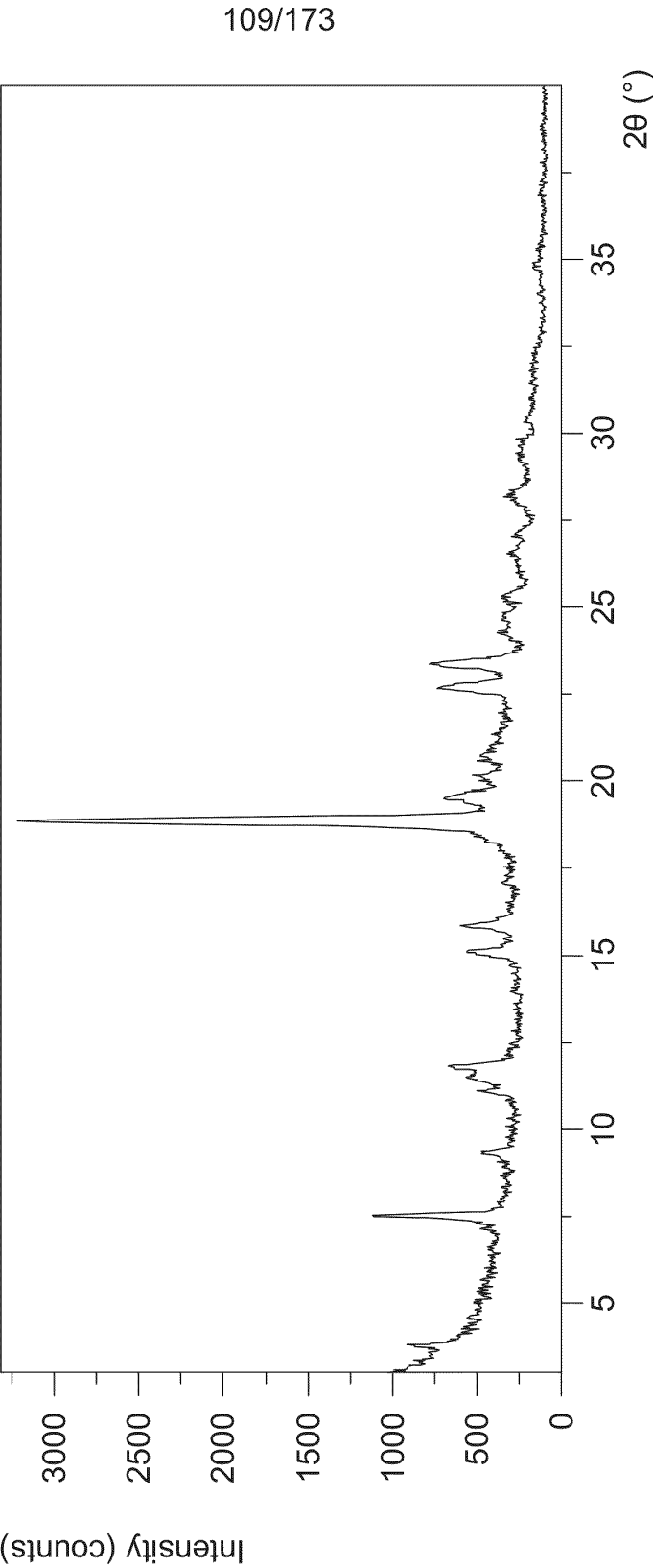


FIG. 109

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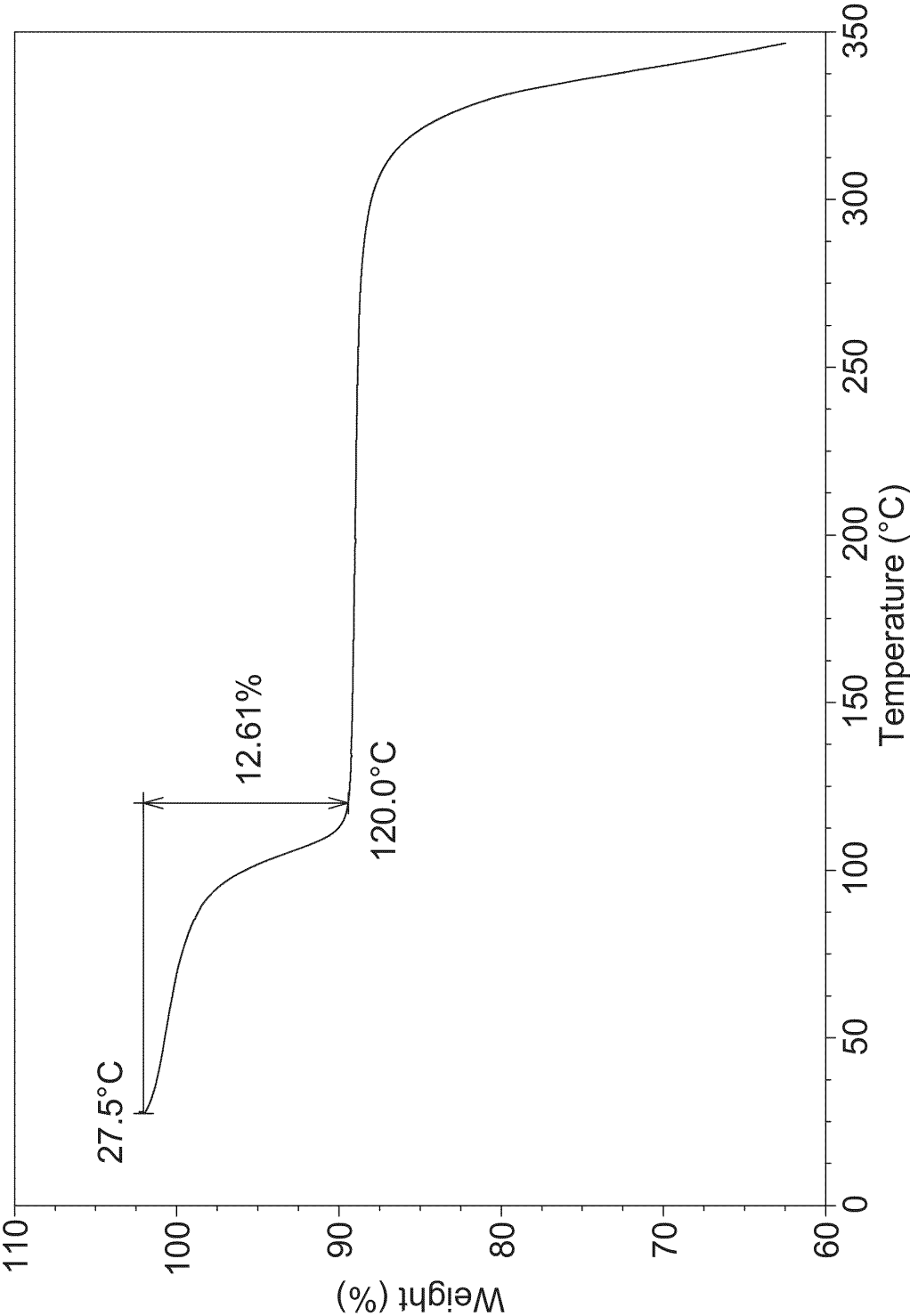
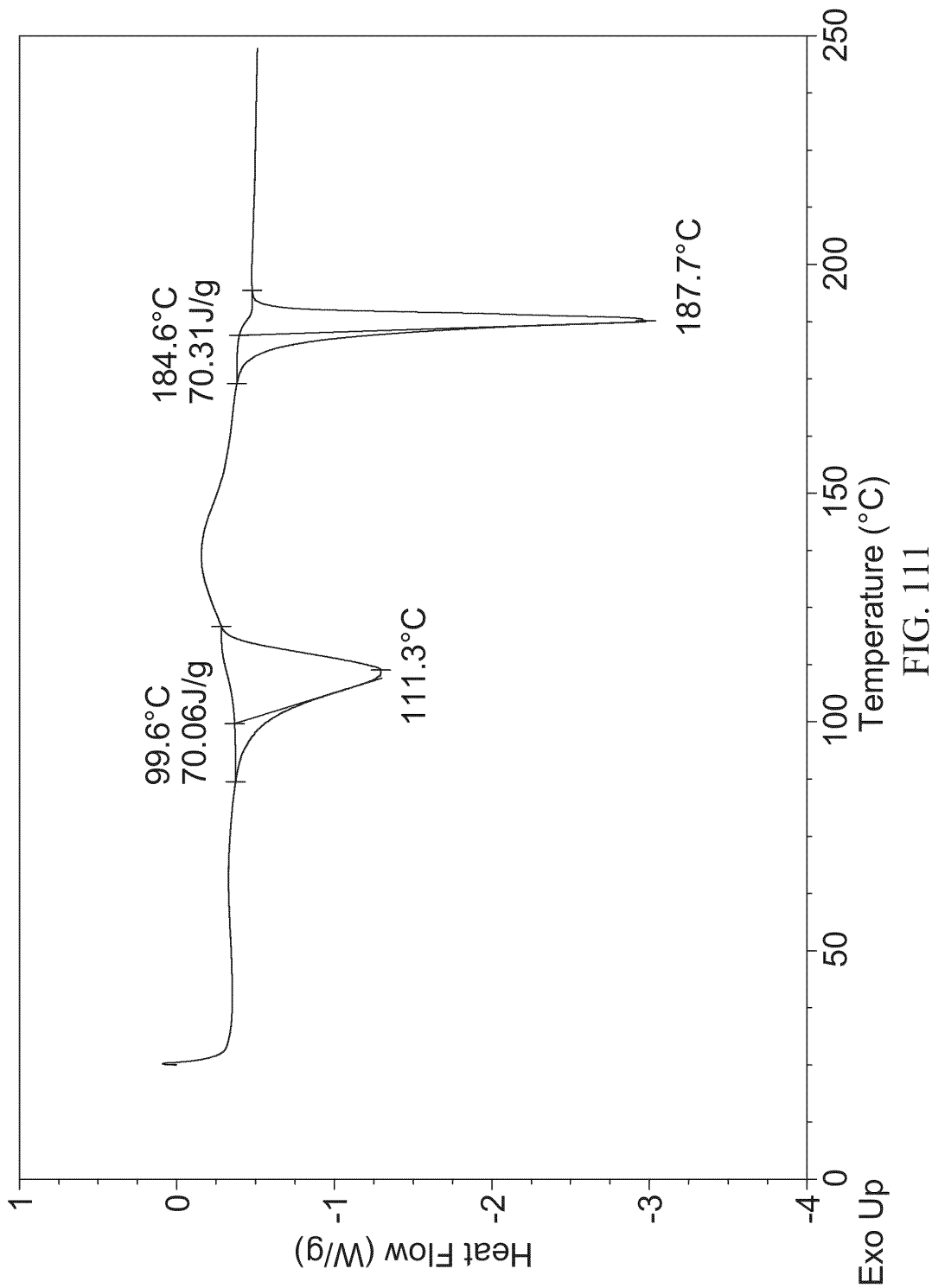


FIG. 110

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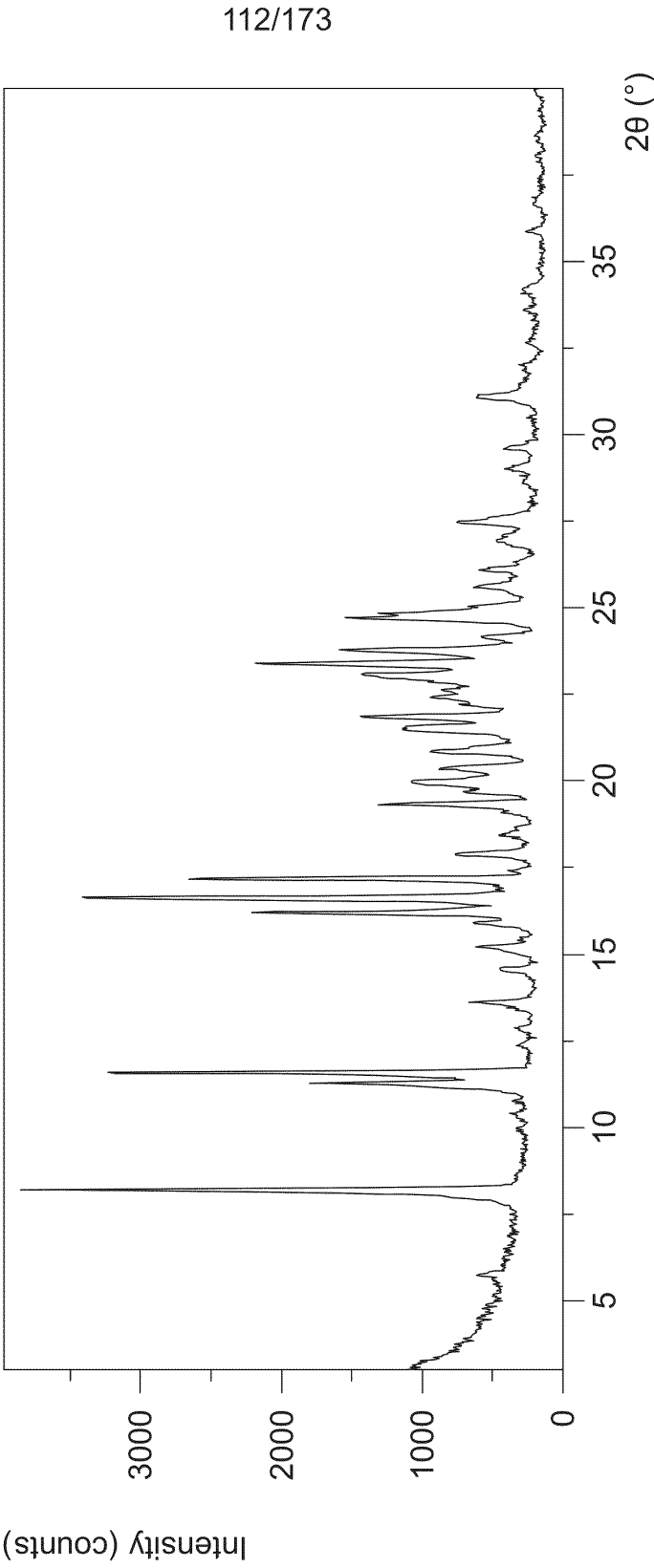


FIG. 112

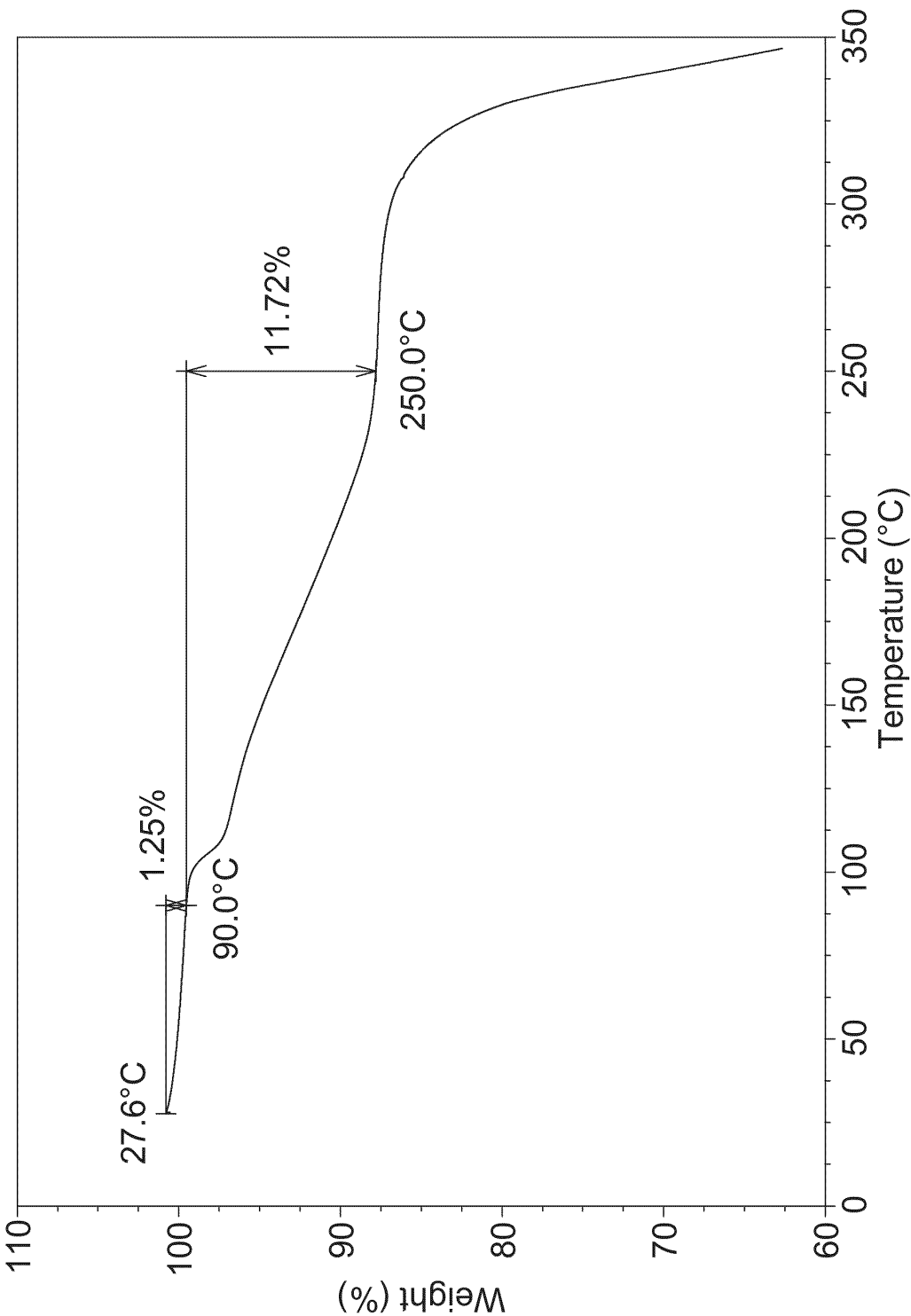


FIG. 113

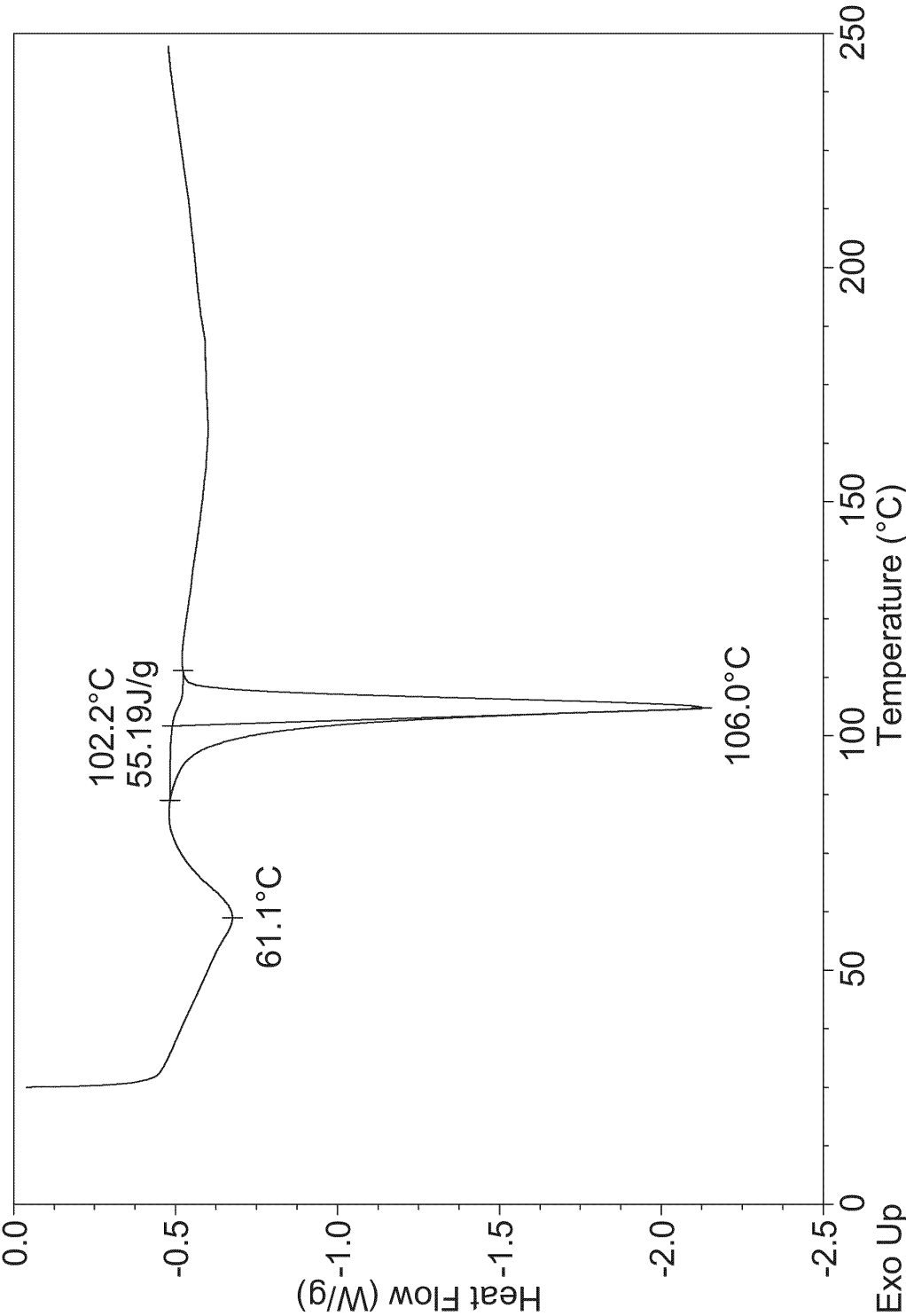


FIG. 114

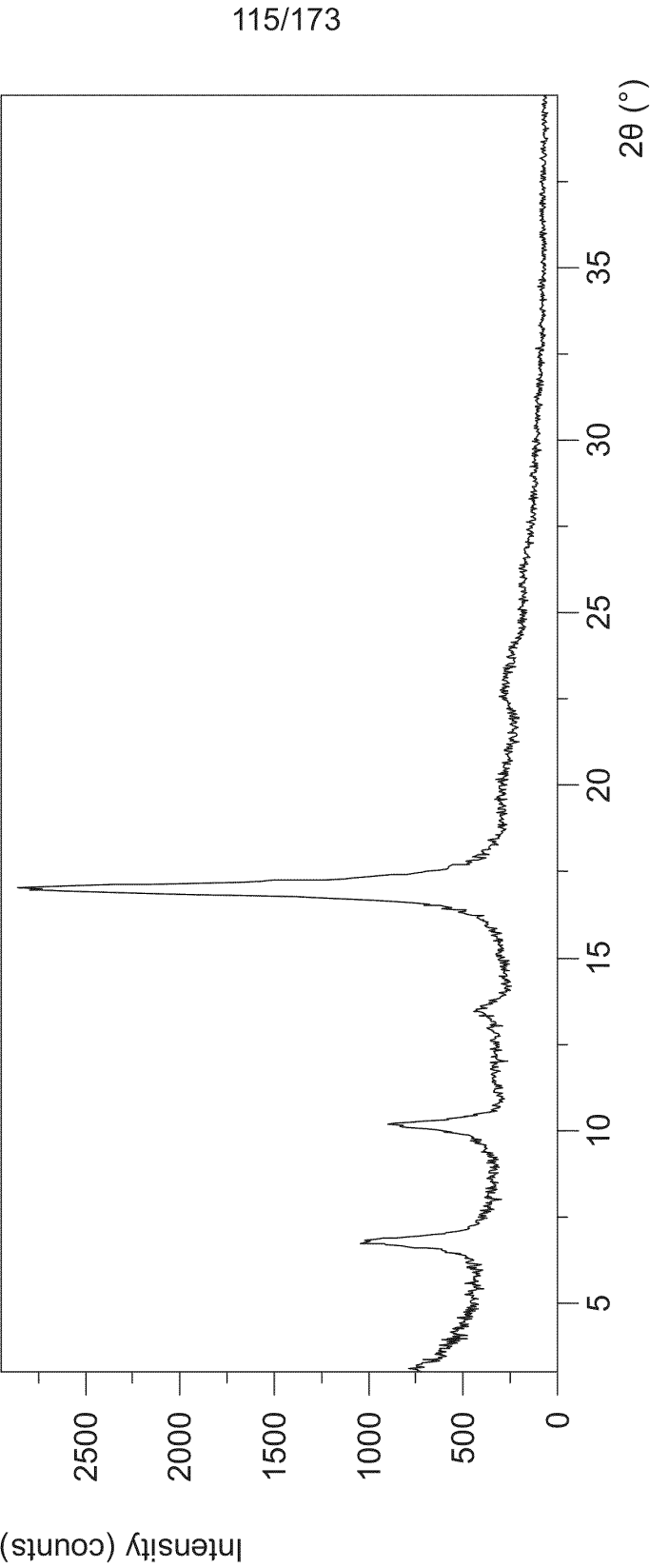


FIG. 115

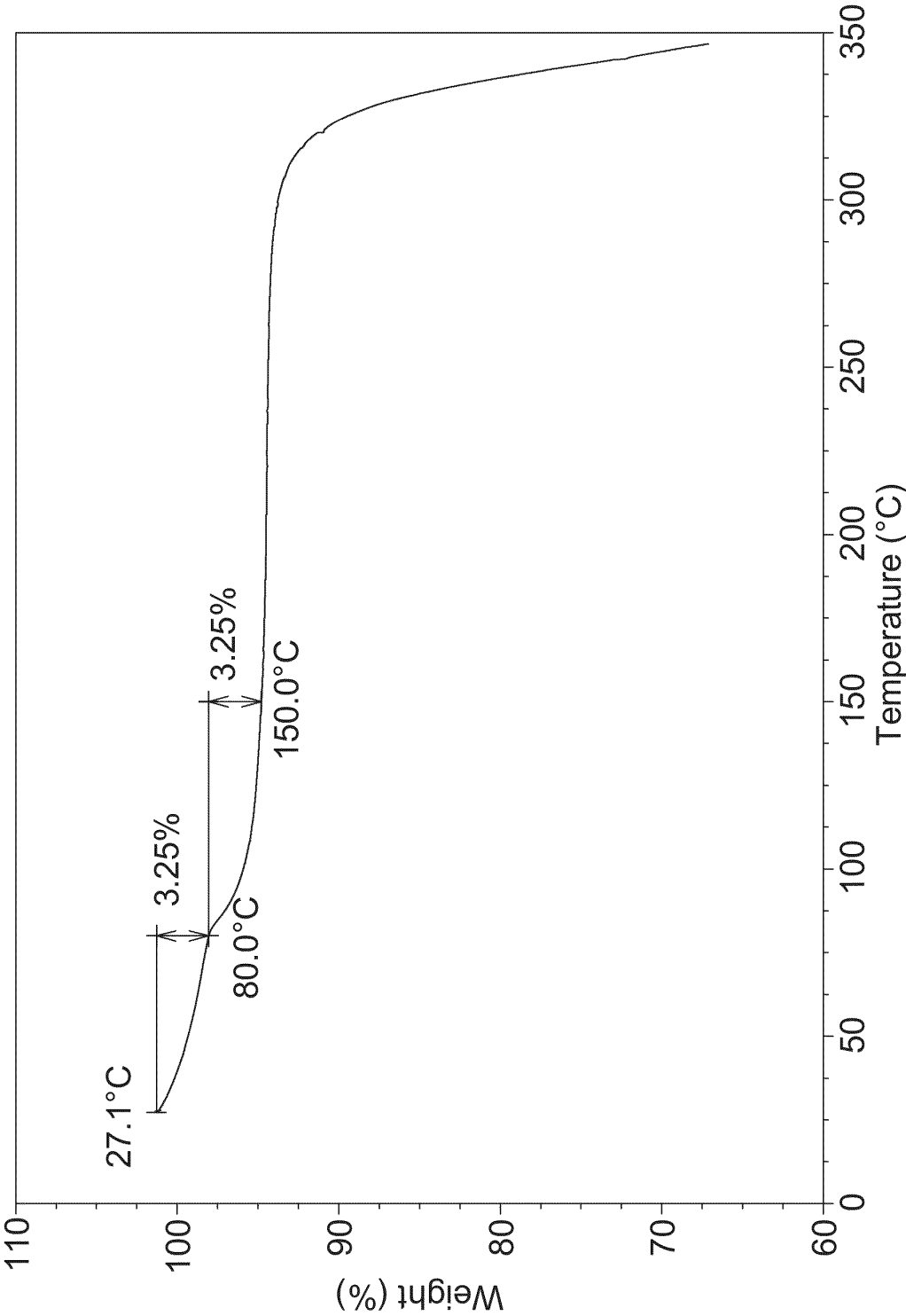


FIG. 116

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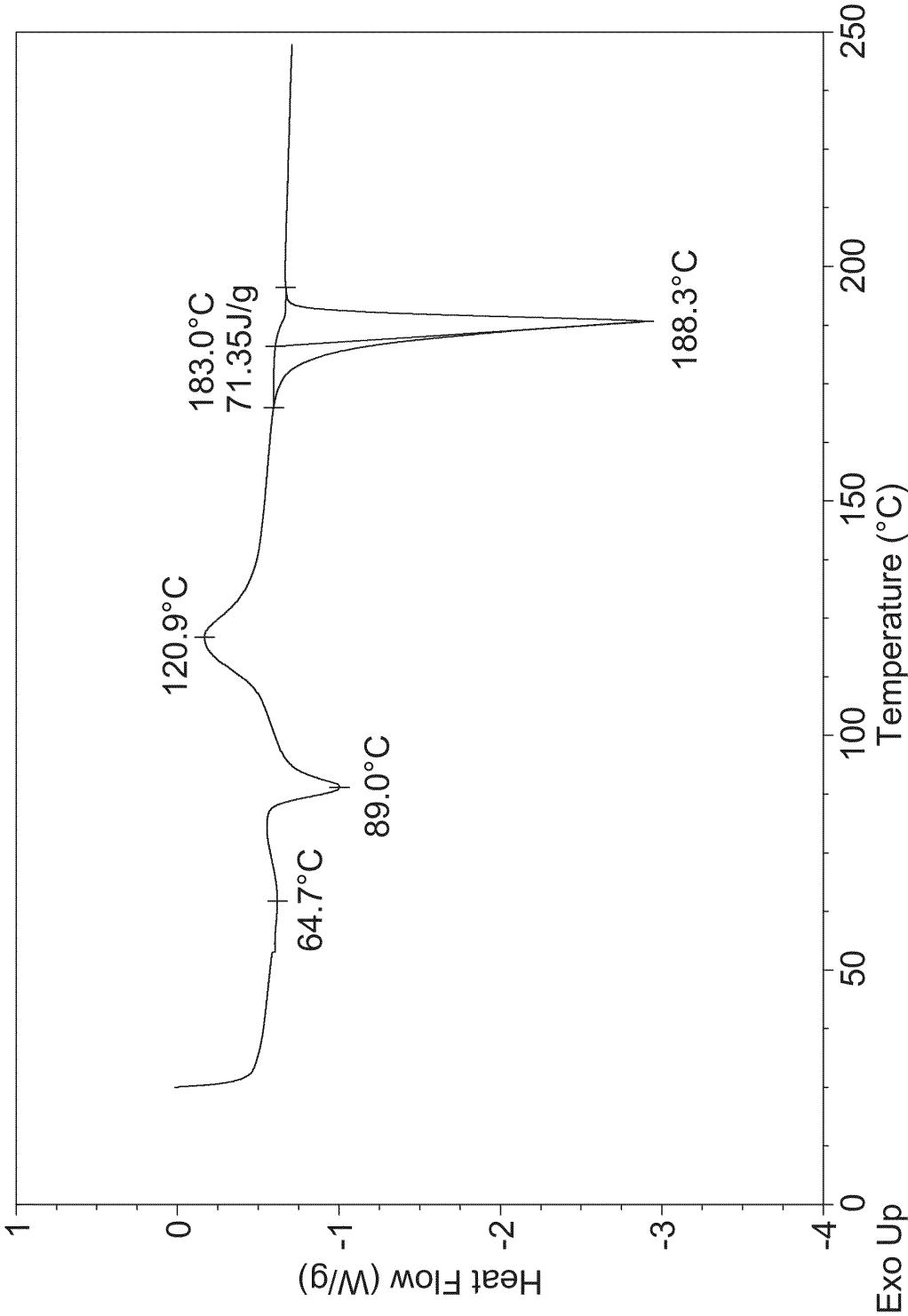


FIG. 117

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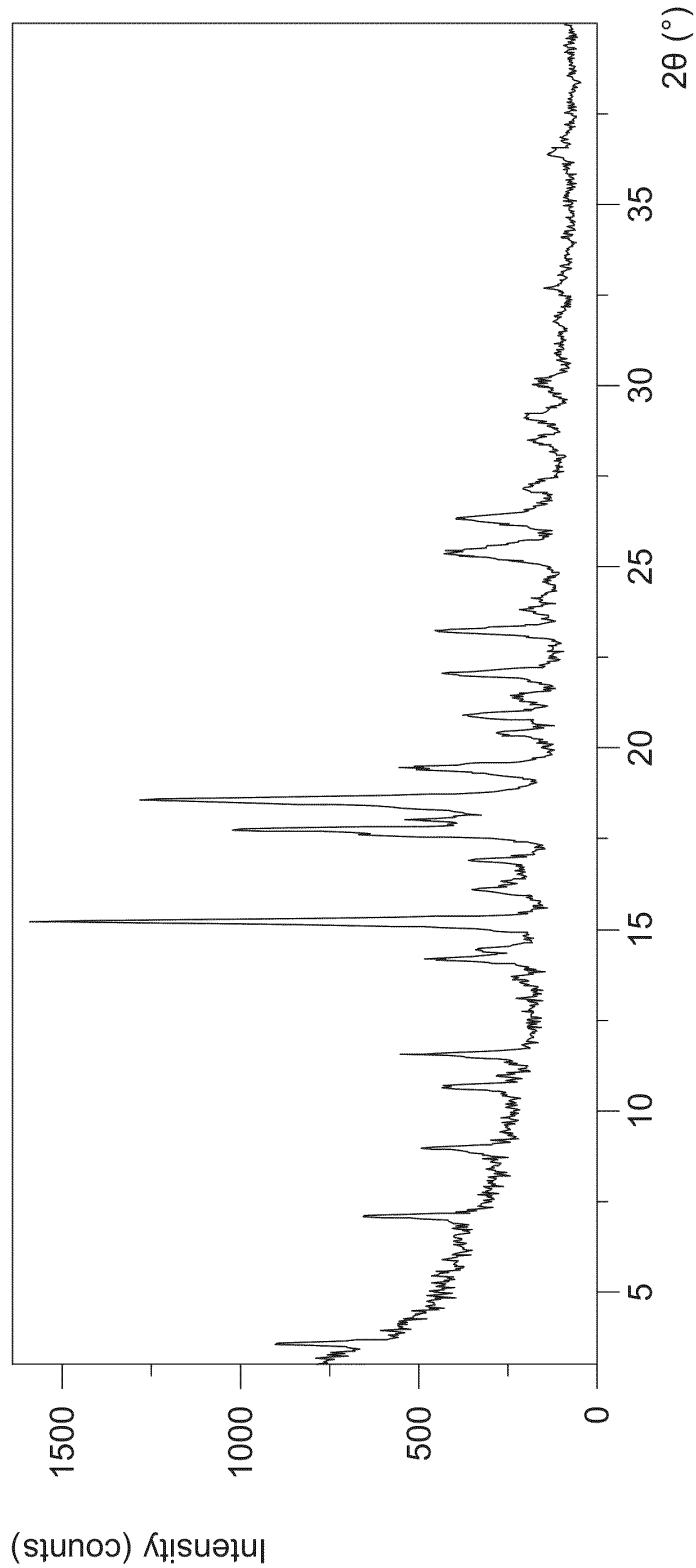


FIG. 118

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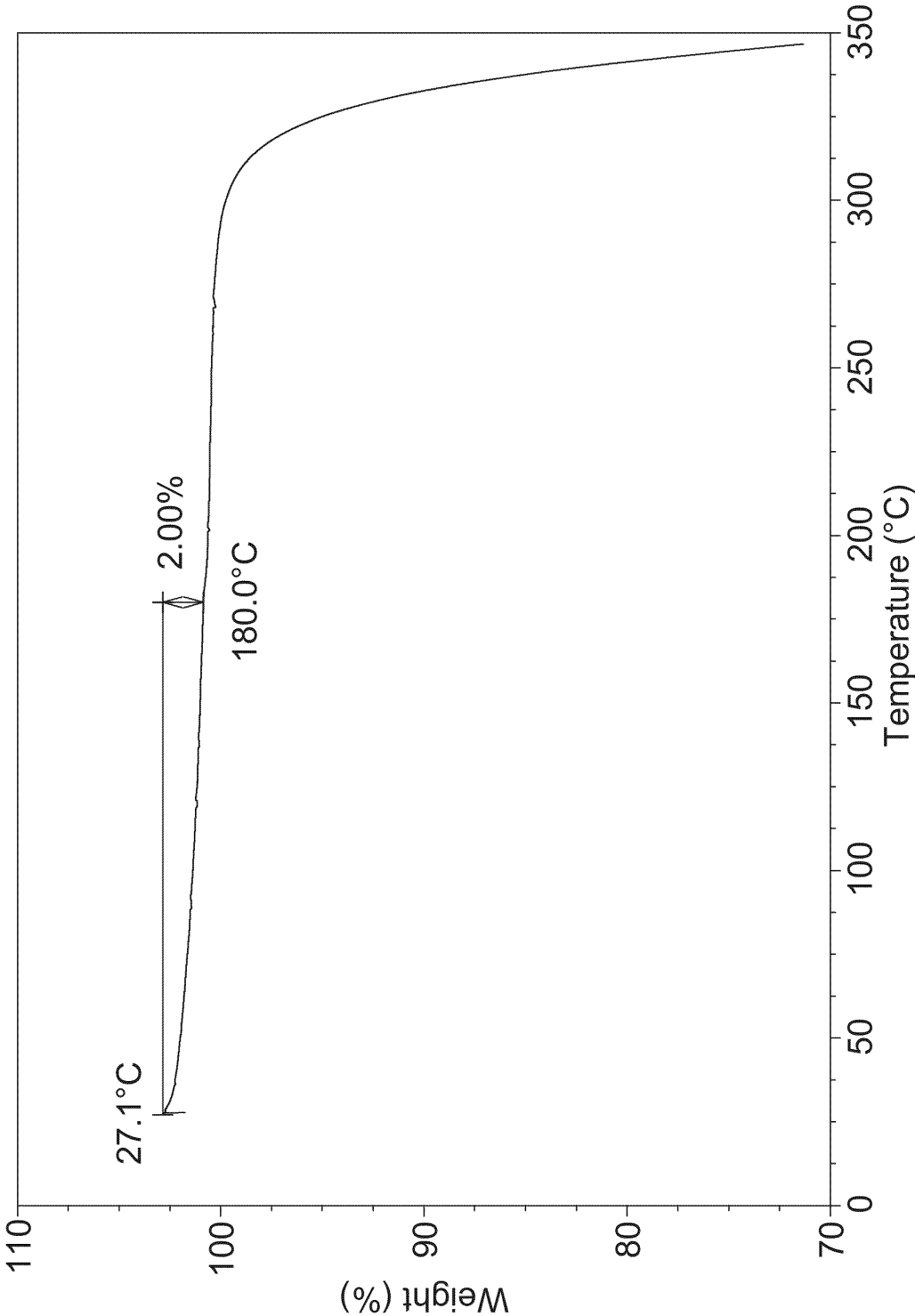


FIG. 119

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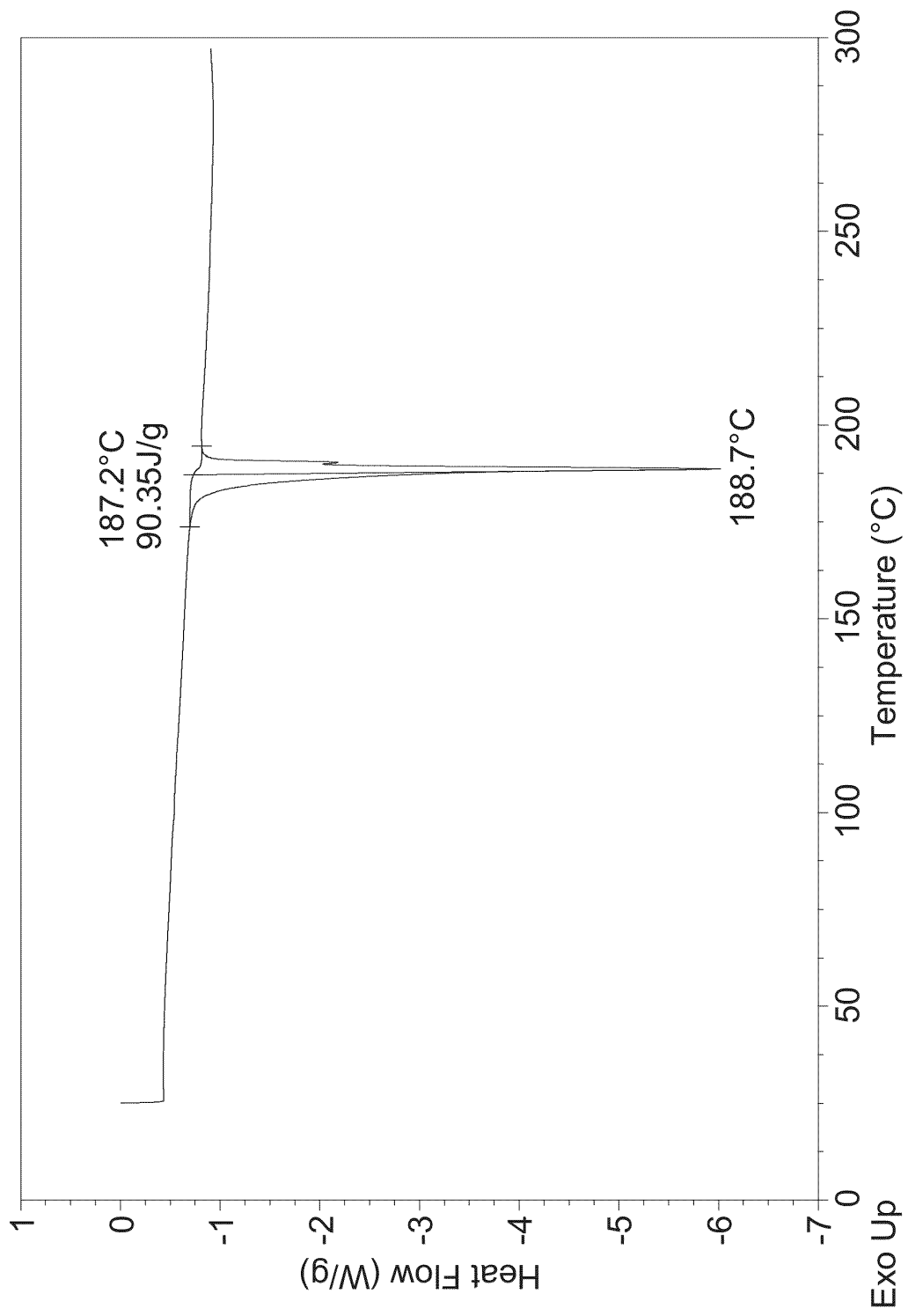


FIG. 120

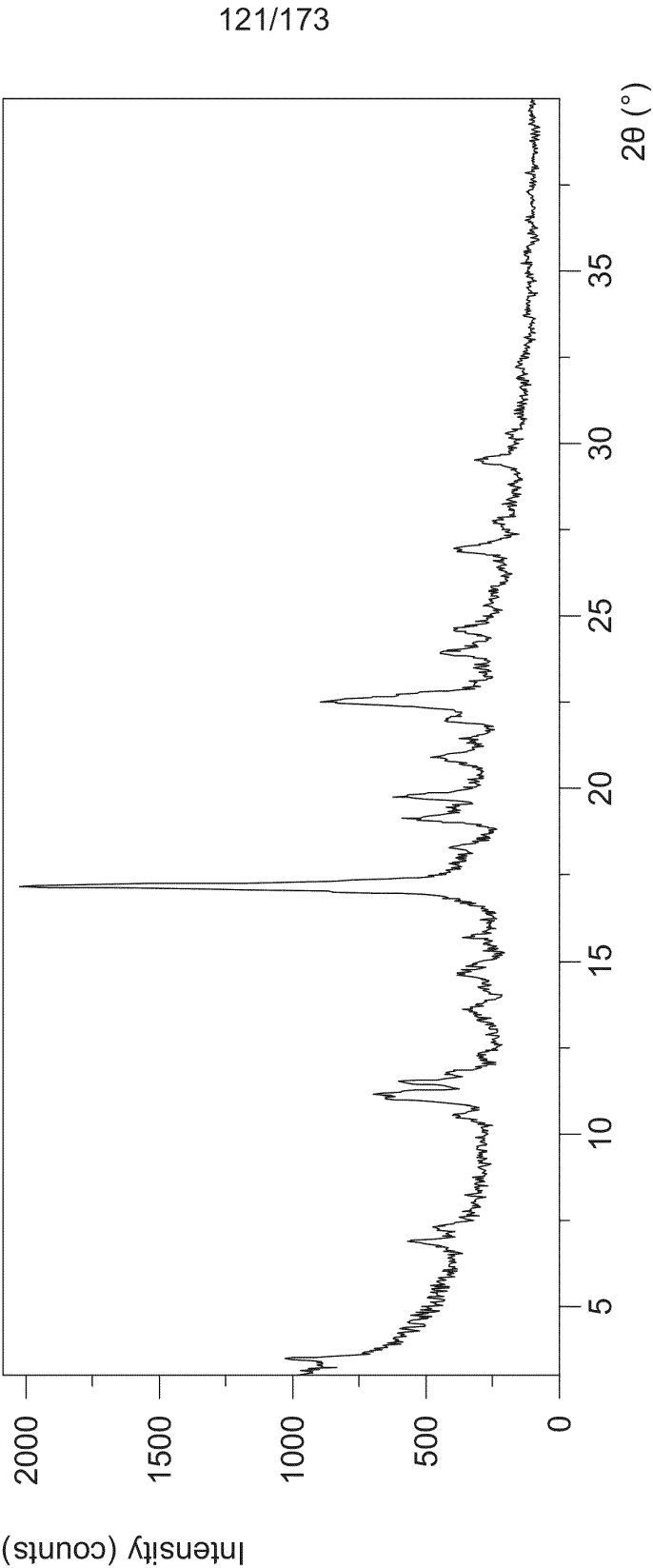


FIG. 121

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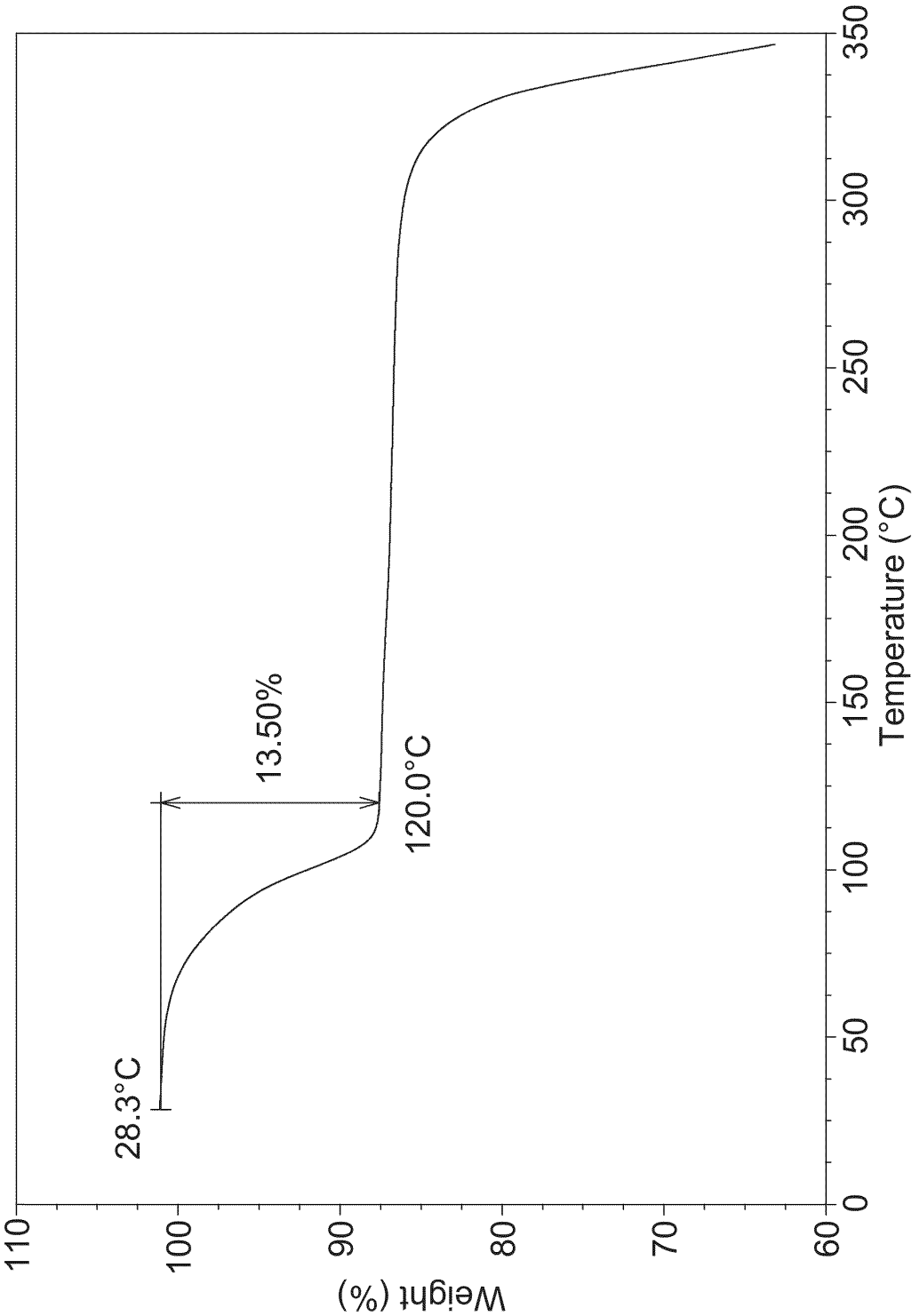


FIG. 122

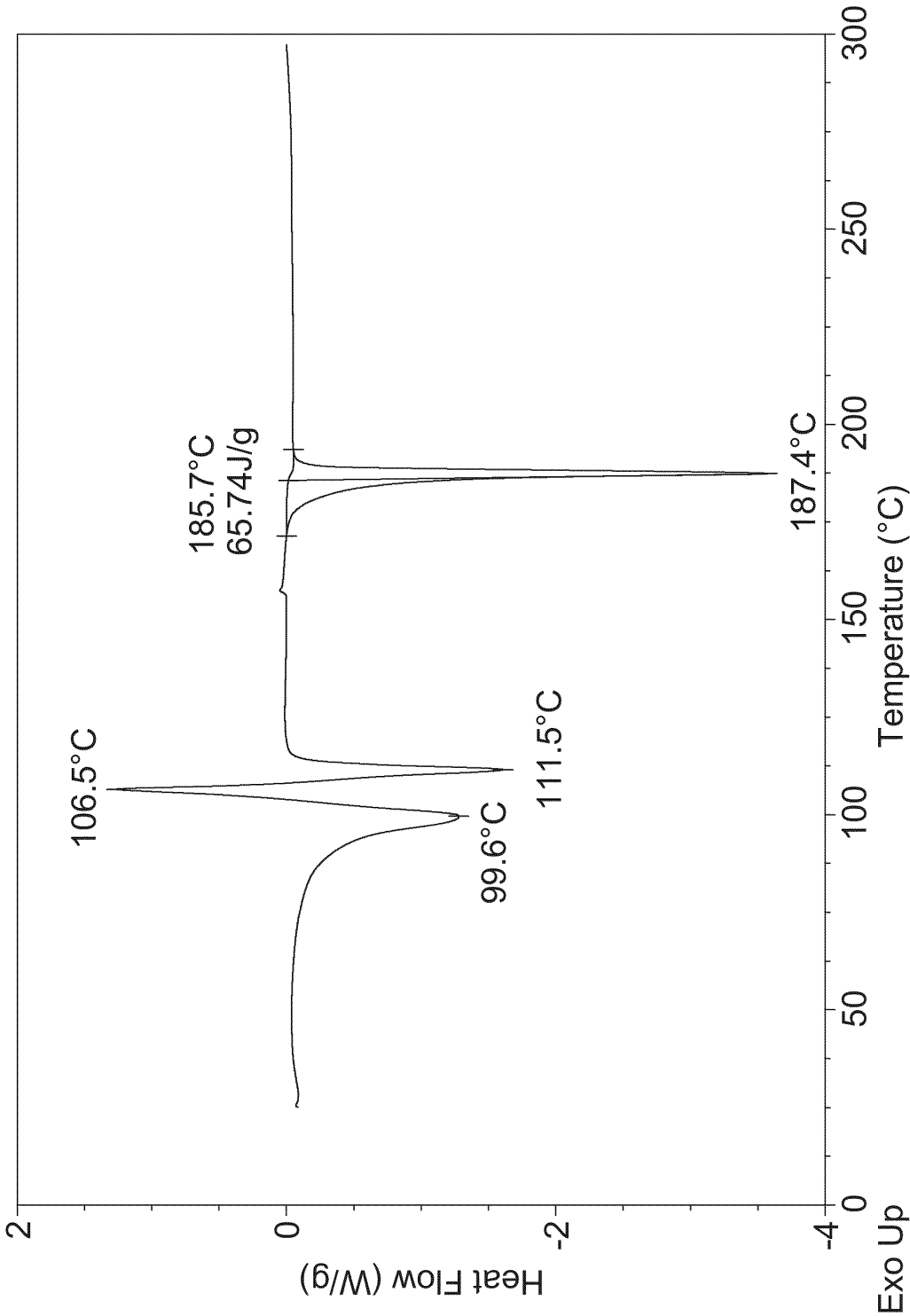


FIG. 123

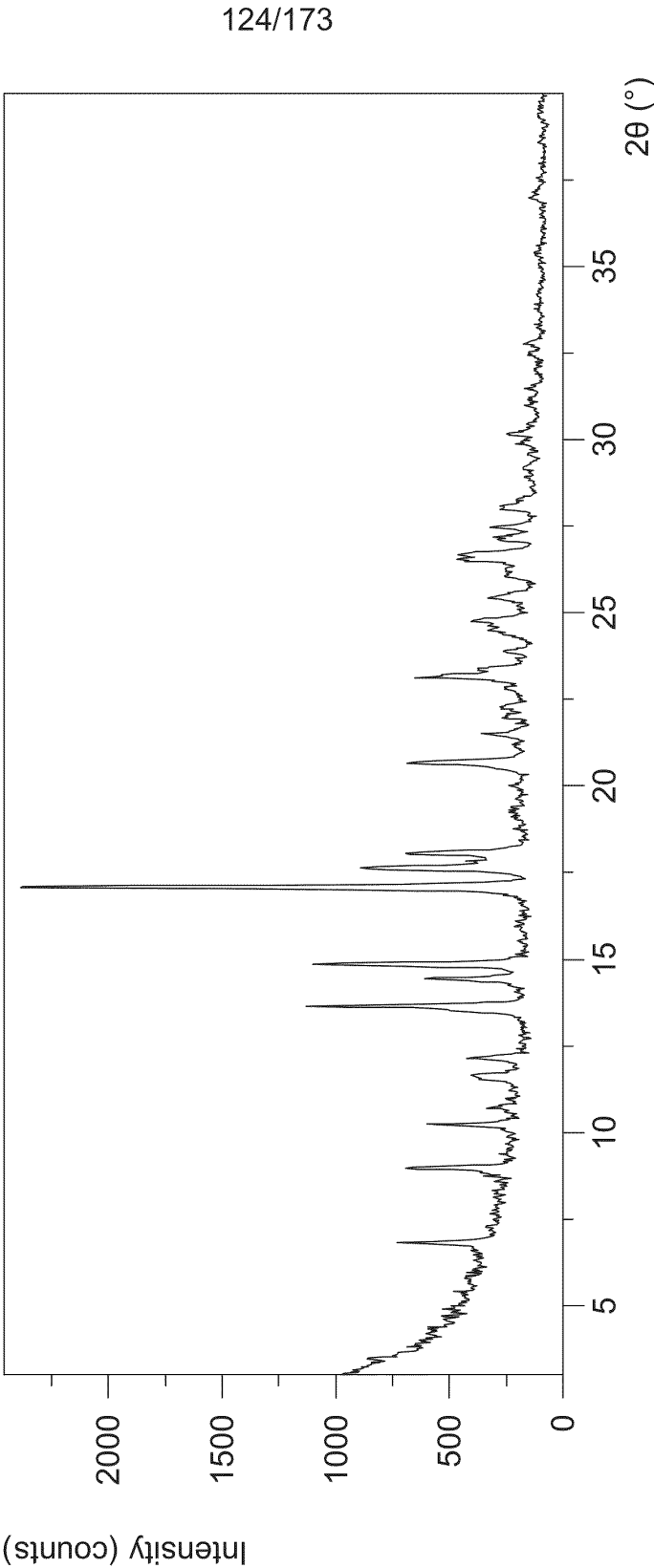


FIG. 124

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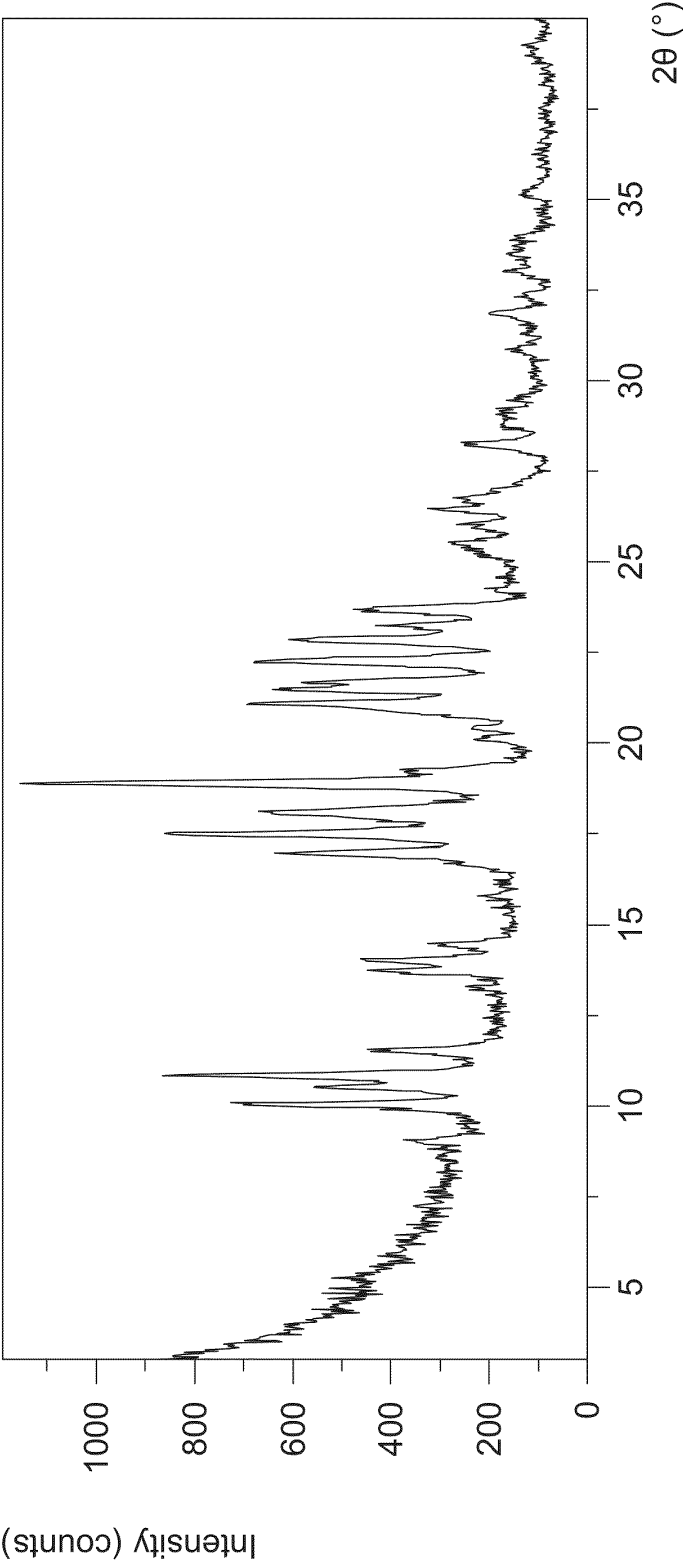


FIG. 125

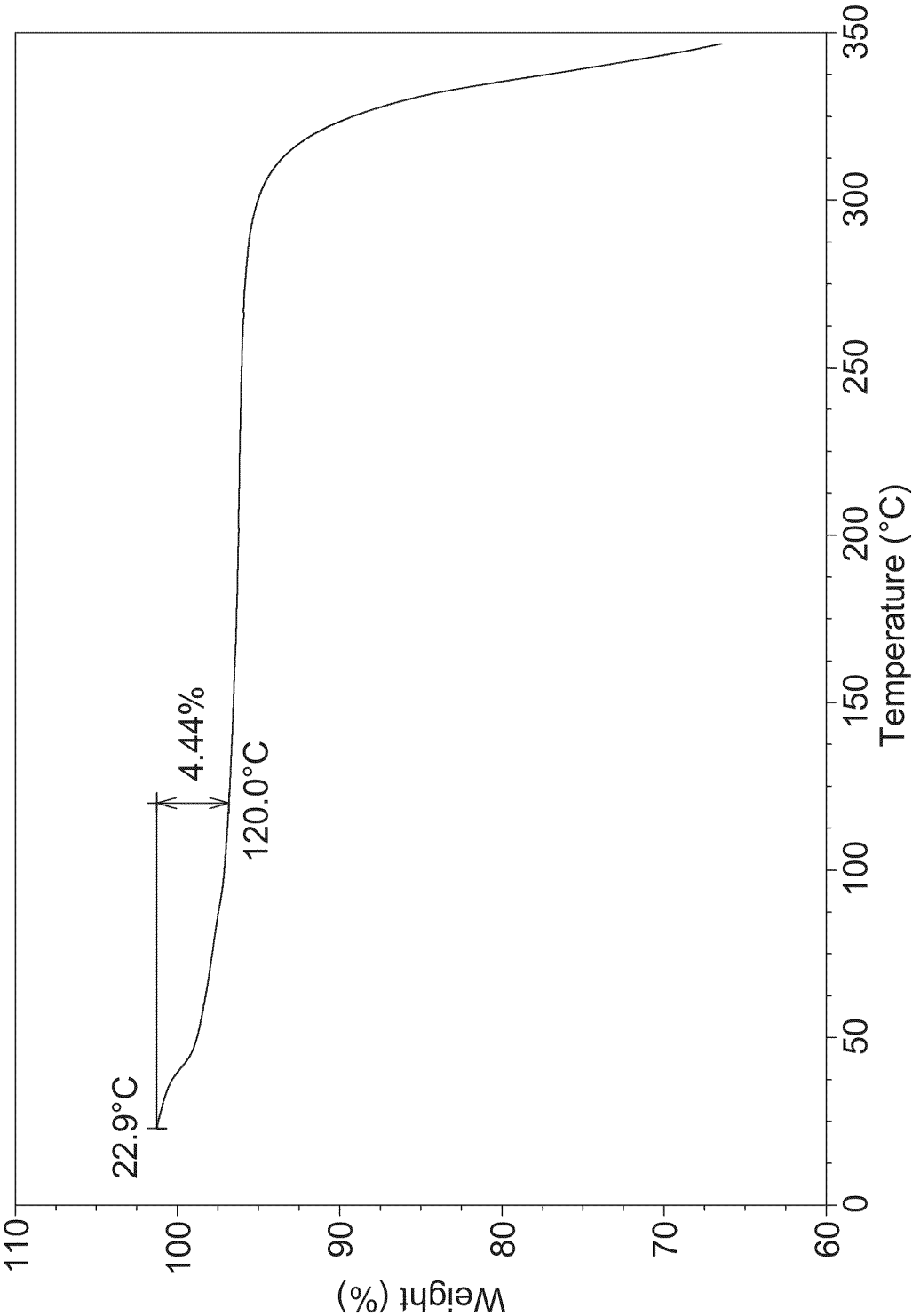


FIG. 126

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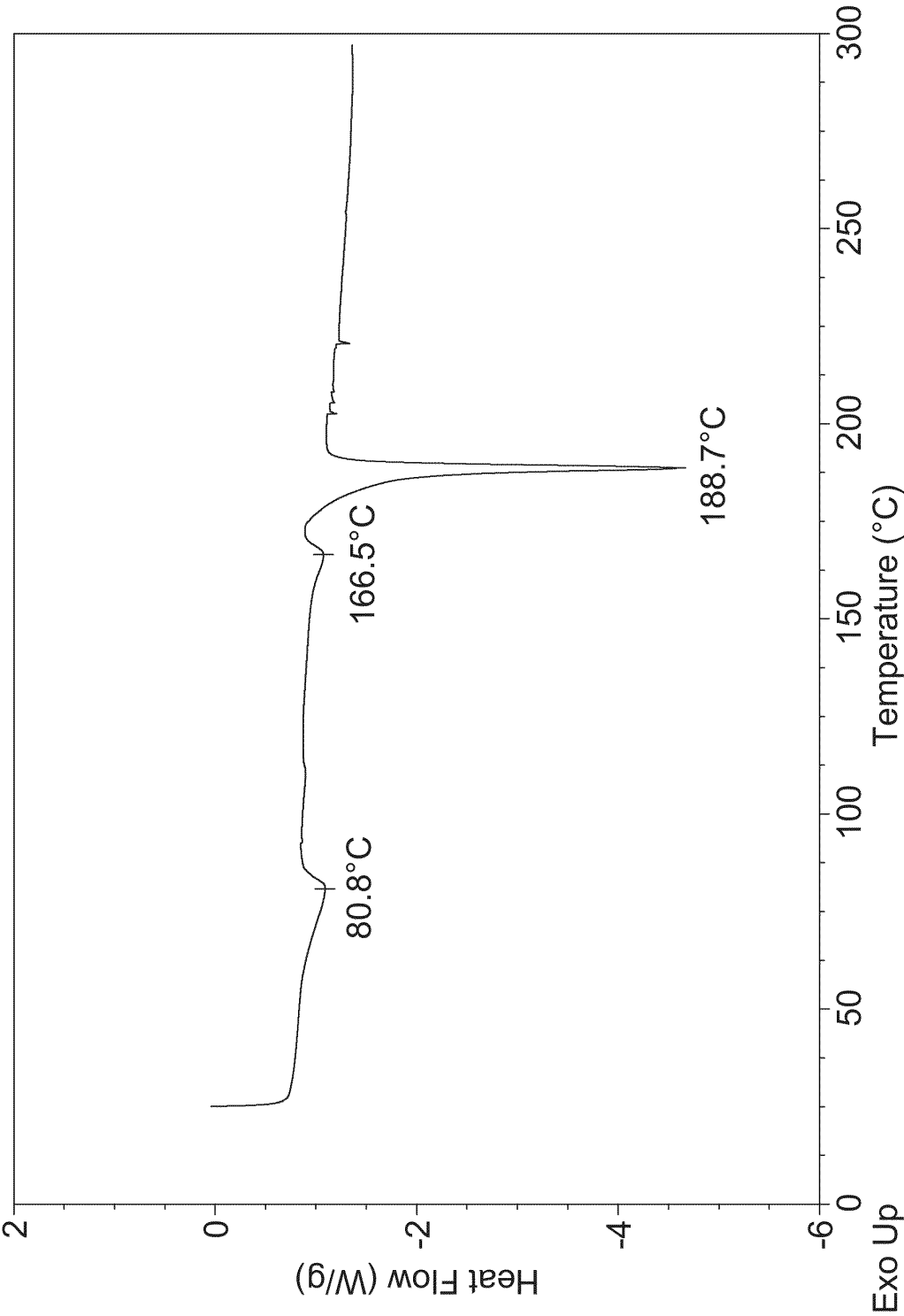
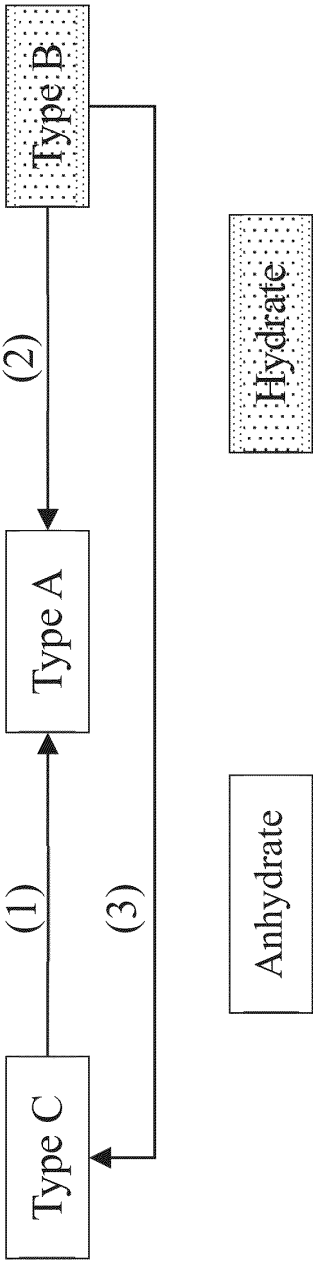


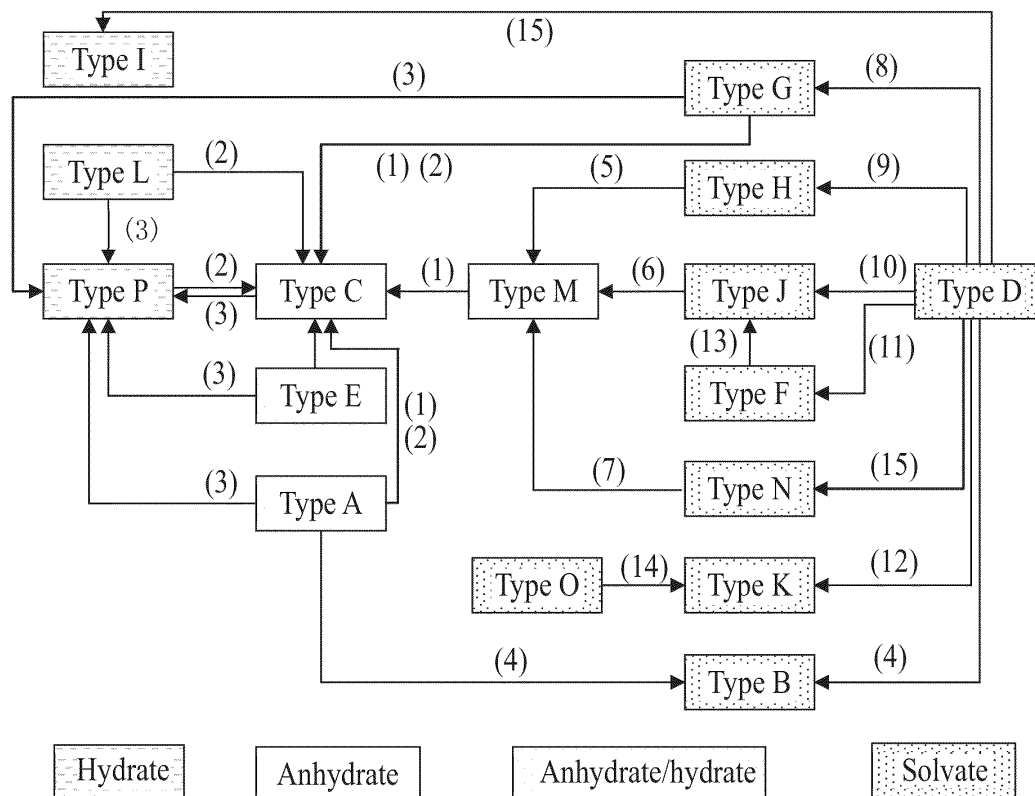
FIG. 127



(1): Slurry competition of Type C and Type A in DMSO/EtOAc (1:6, v/v) at RT and 50 °C.
(2): Slurry competition of Type B and Type A in solvent (EtOH or EtOAc) systems ($a_w=0\sim0.8$) at RT.
(3): Heating to 132 °C and cooling to RT.

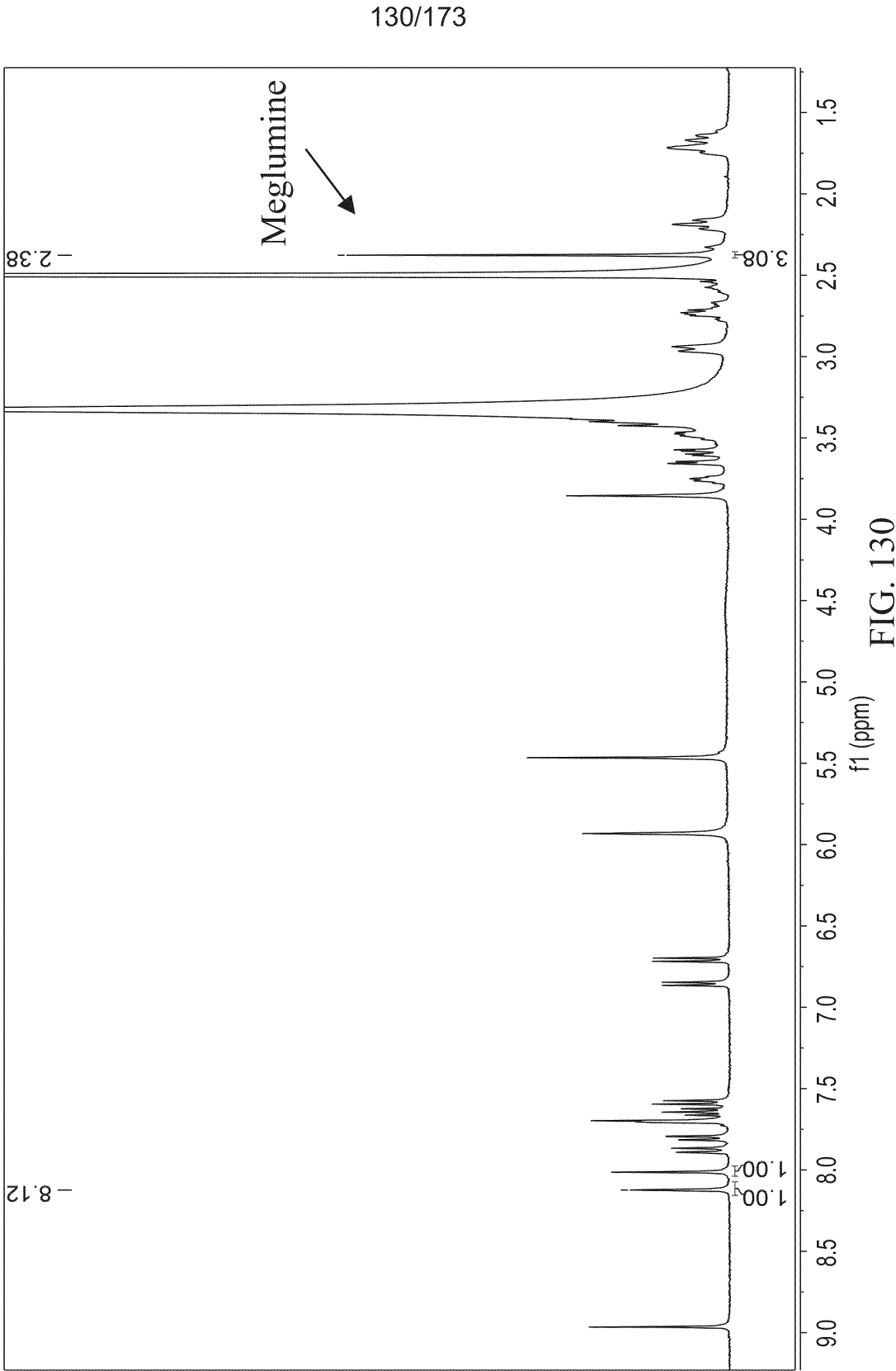
FIG. 128

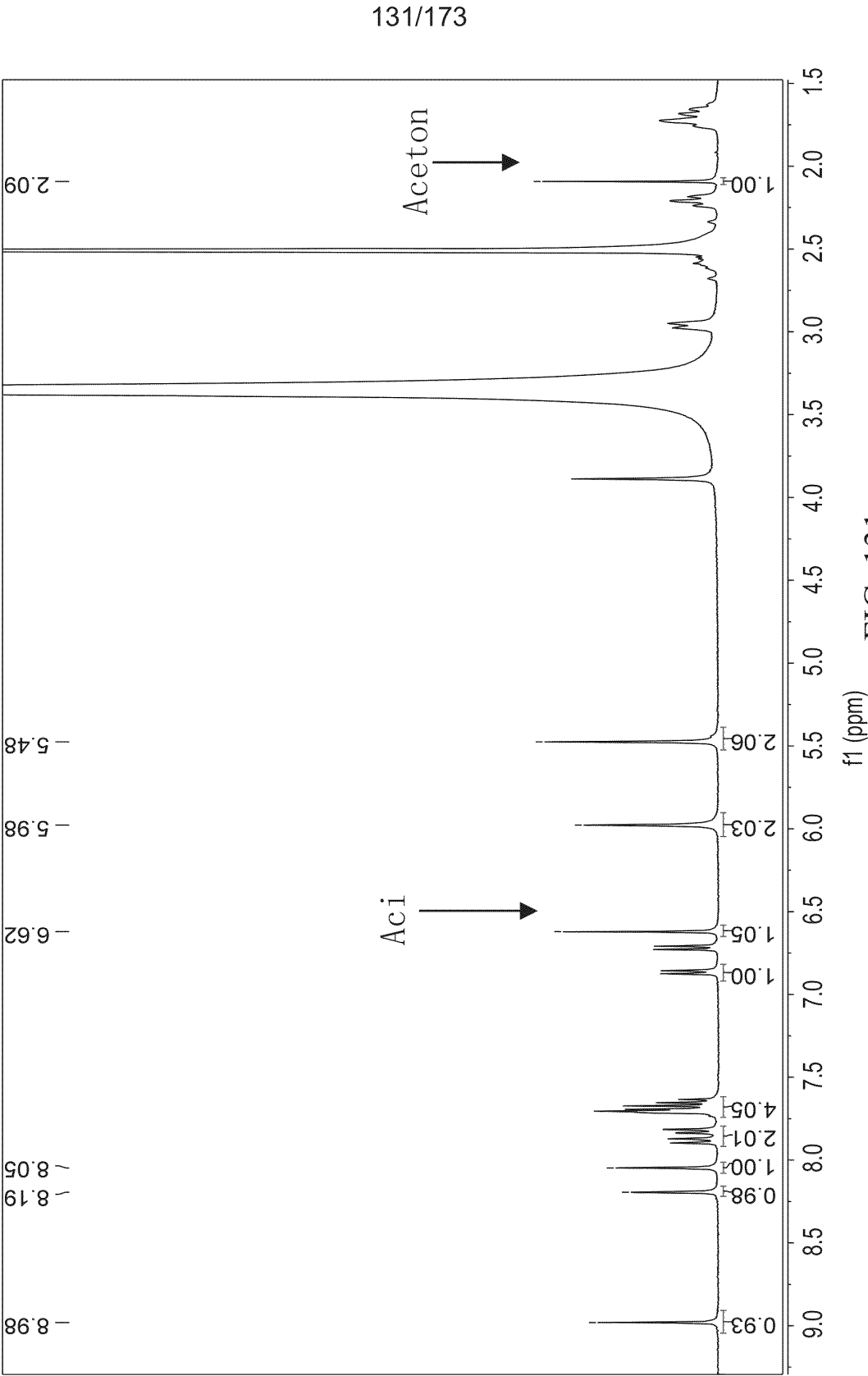
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- (1): Slurry competition of Type A/C/G/M in EtOAc or ACN at RT and 50 °C.
 (2): Slurry competition of Type A/C/E/G/L/P in solvent systems with $a_w \sim 0 \sim 0.8$ at RT.
 (3): Slurry competition of Type A/C/E/G/L in H₂O ($a_w = 1$) at RT.
 (4): Slurry in solvent systems containing EtOH.
 (5): Heat to 135 °C, cool to RT and exposure to ambient conditions.
 (6): Heat to 120 °C, cool to RT and exposure to ambient conditions.
 (7): Heat to 105 °C, cool to RT and exposure to ambient conditions.
 (8): Slurry in DMSO/H₂O (1:4, v/v) at RT.
 (9): Slurry in Anisole at RT.
 (10): Solid vapor diffusion in DCM atmosphere at RT.
 (11): Slurry in DCM at RT.
 (12): Solid vapor diffusion in DMSO atmosphere at RT.
 (13): Storage at RT overnight.
 (14): Dry at RT under vacuum for 1 day.
 (15): Slurry in Toluene at 50 °C.

FIG. 129





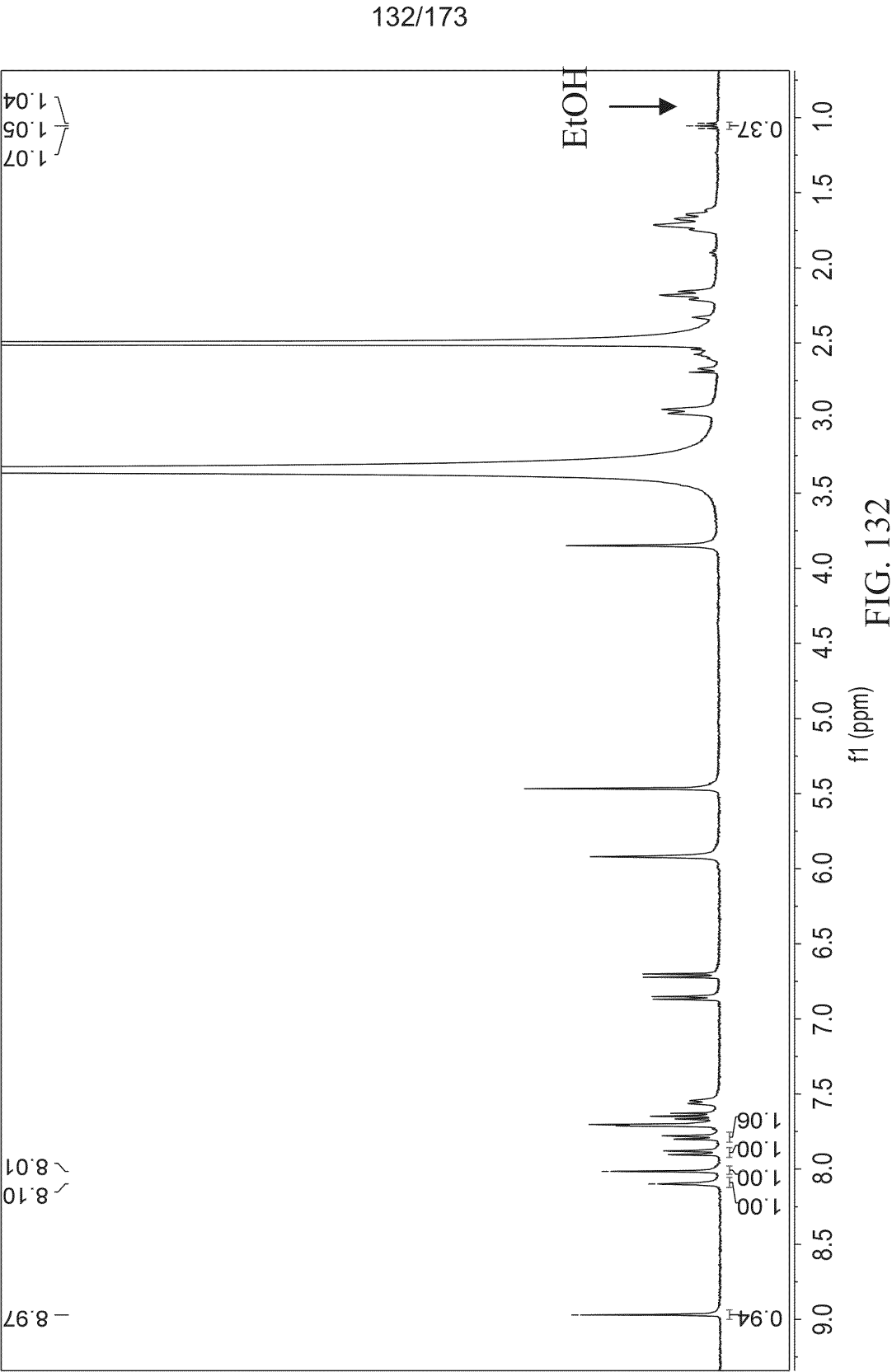


FIG. 133

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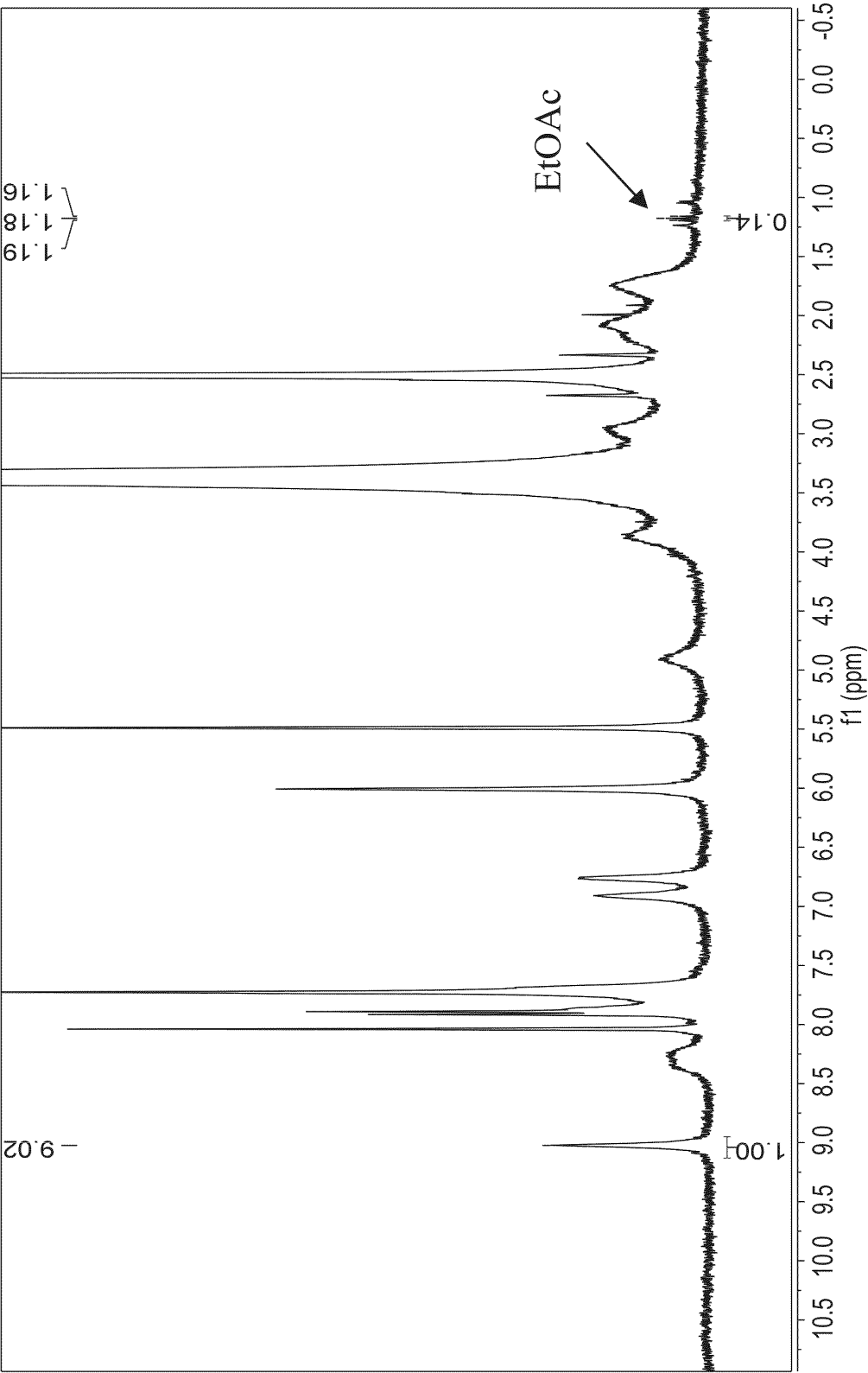


FIG. 134

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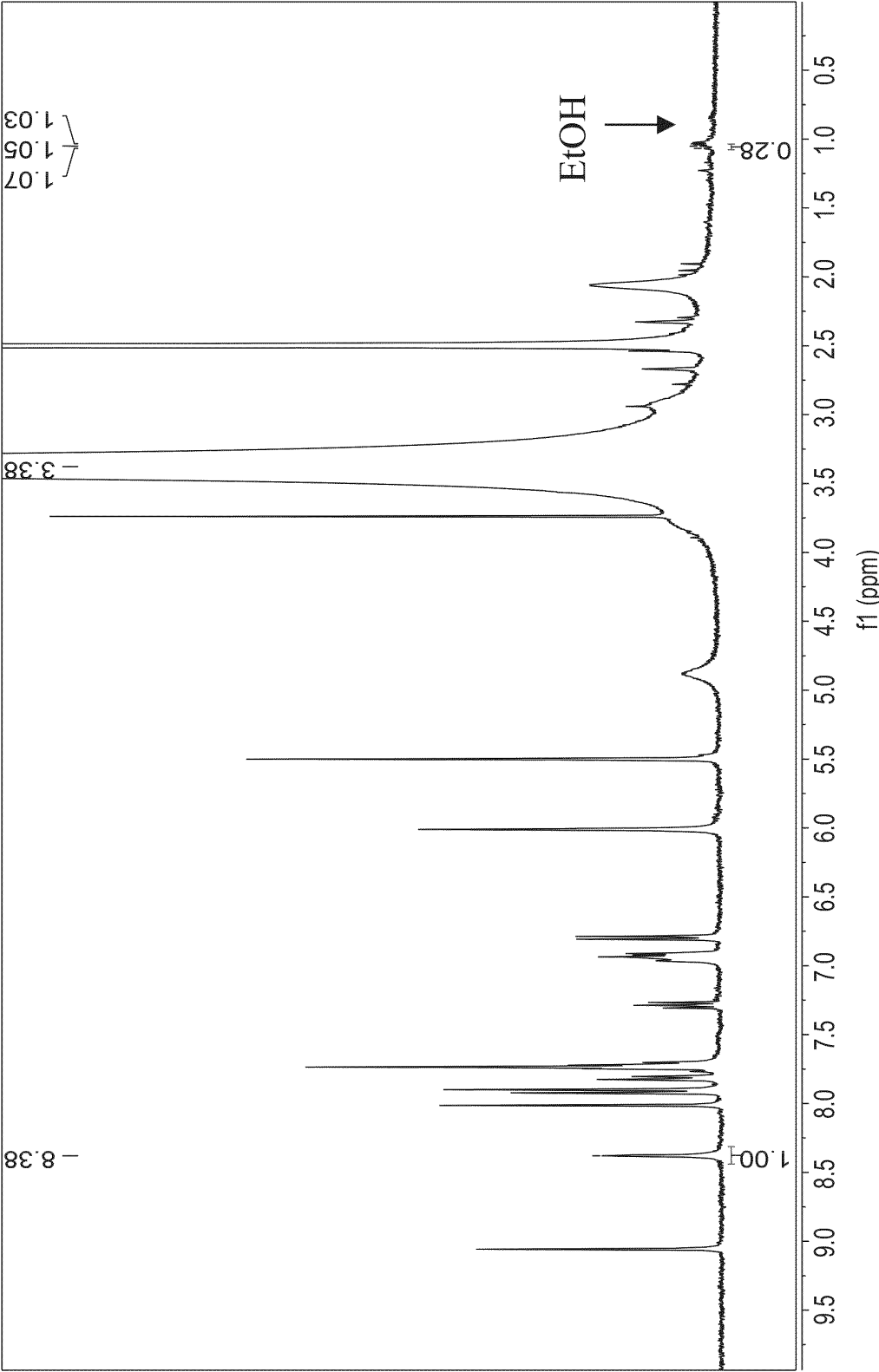


FIG. 135

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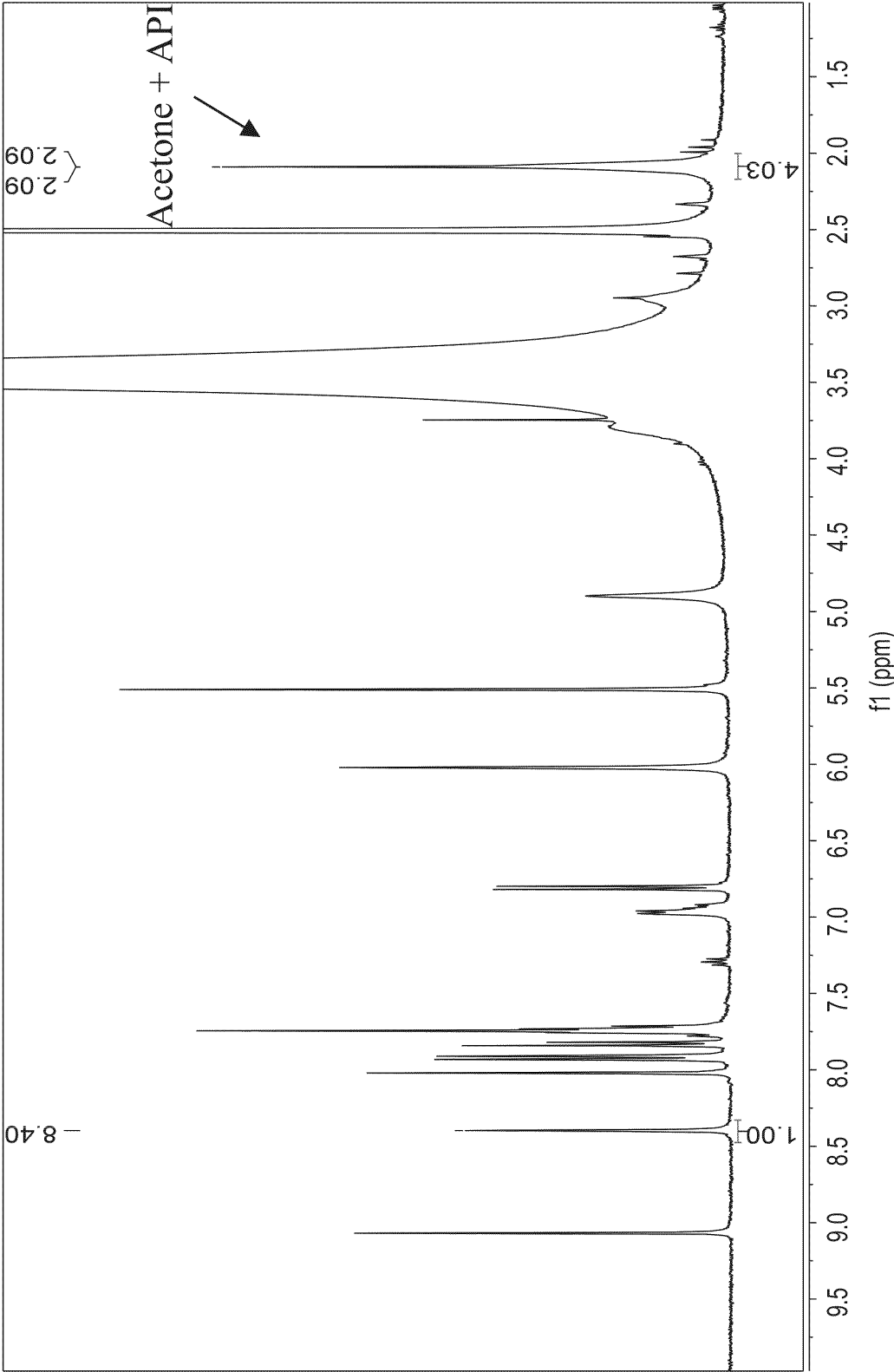


FIG. 136

[illegible]

FIG. 137

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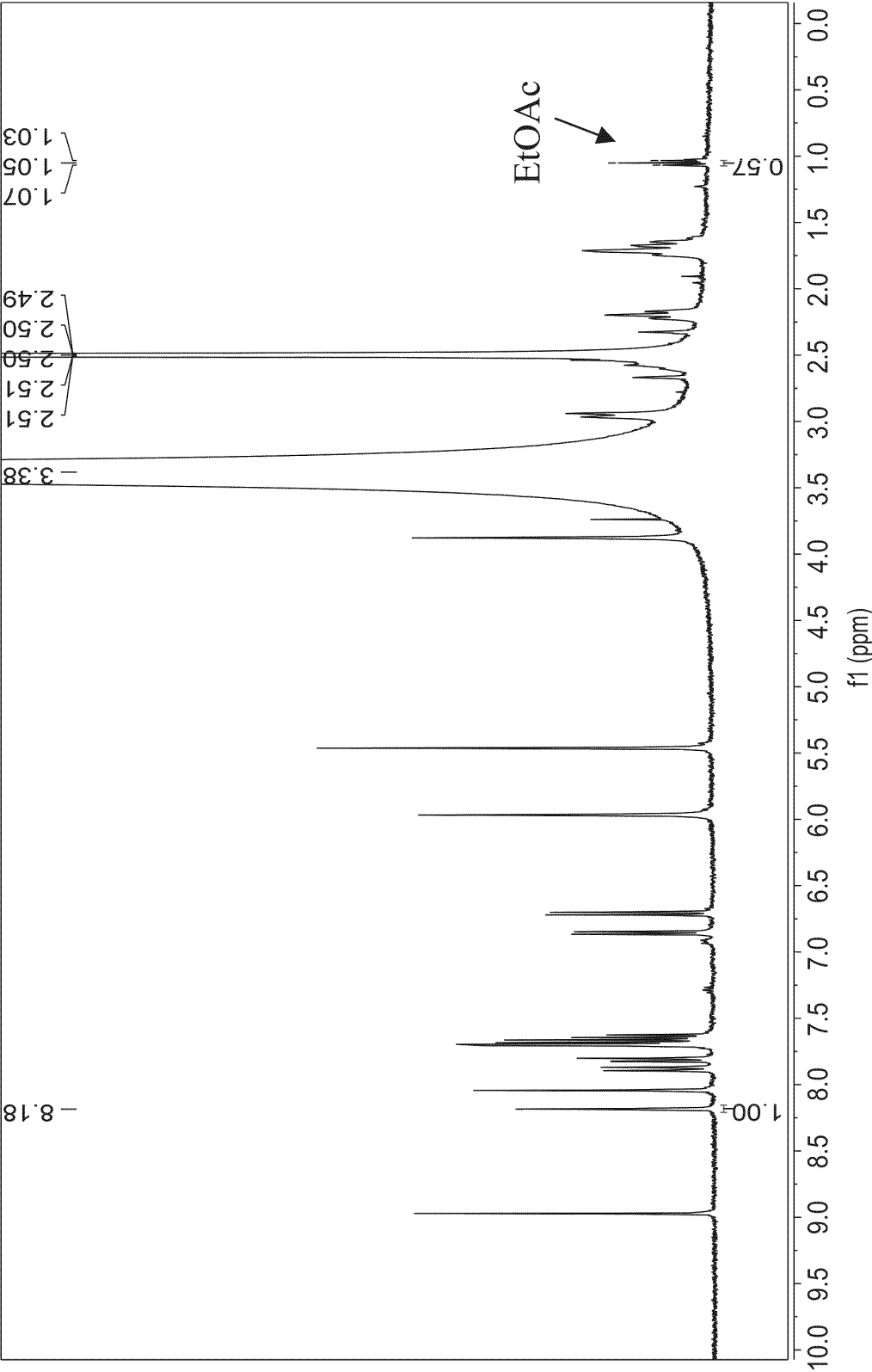


FIG. 138

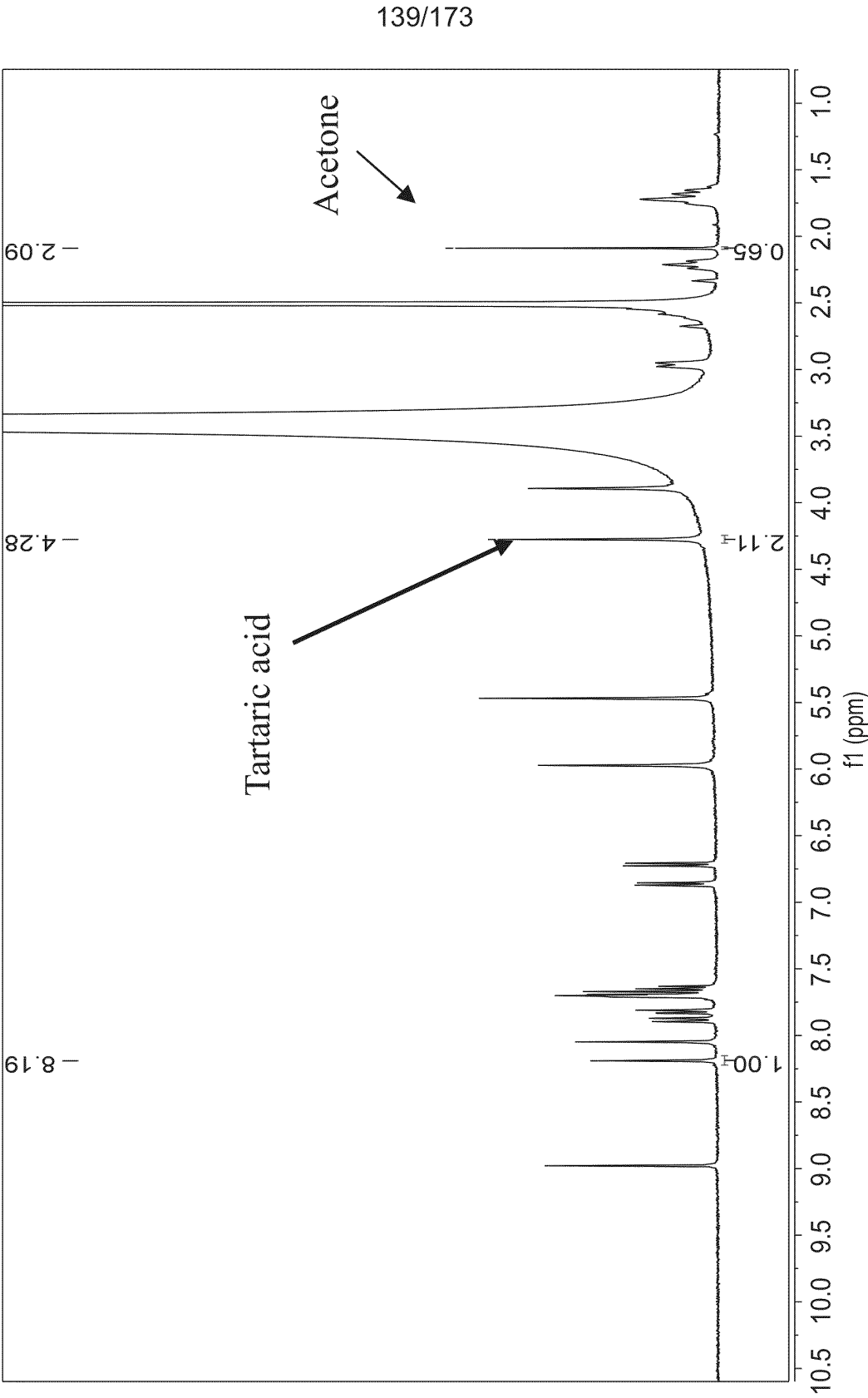
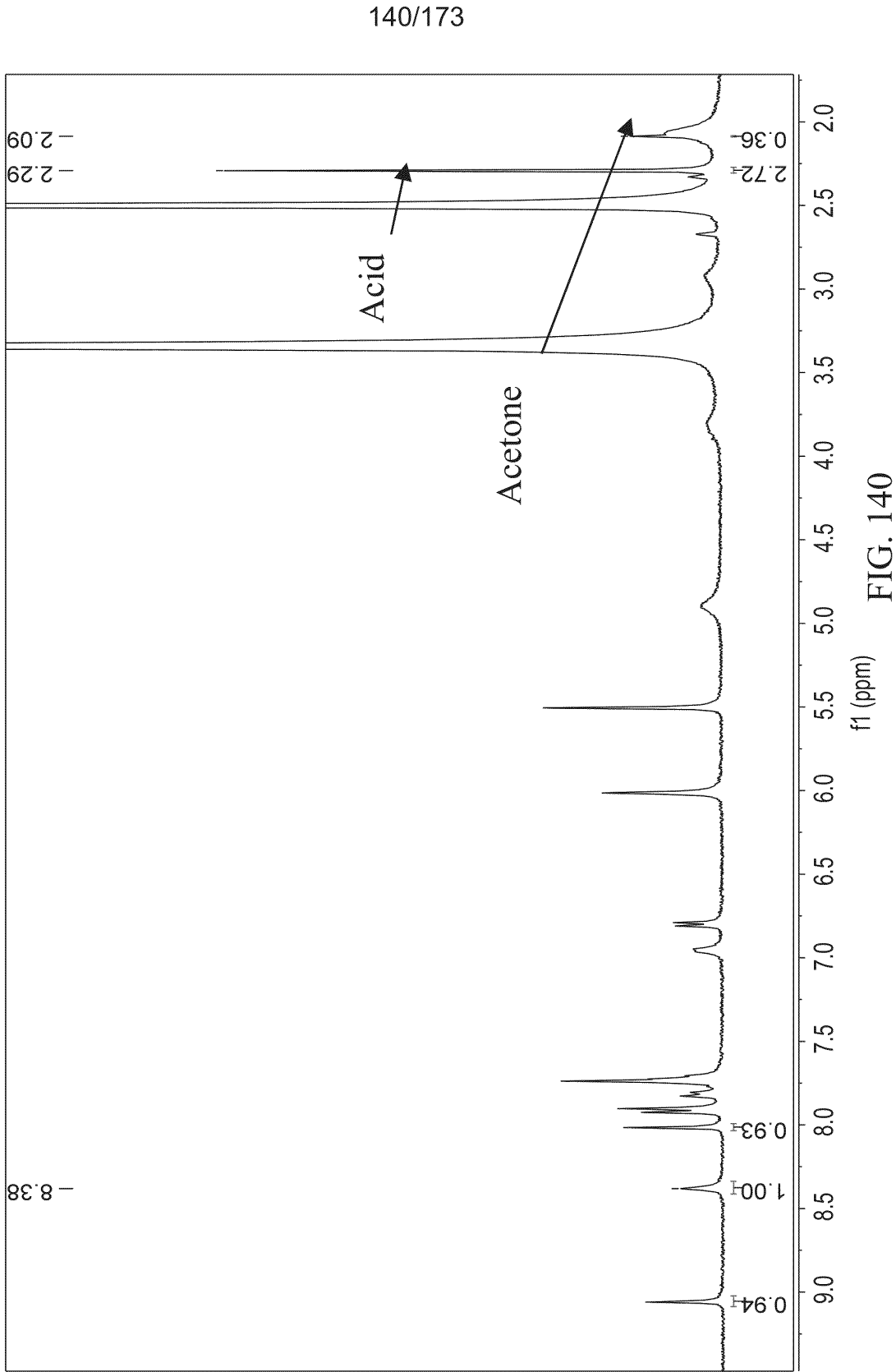


FIG. 139



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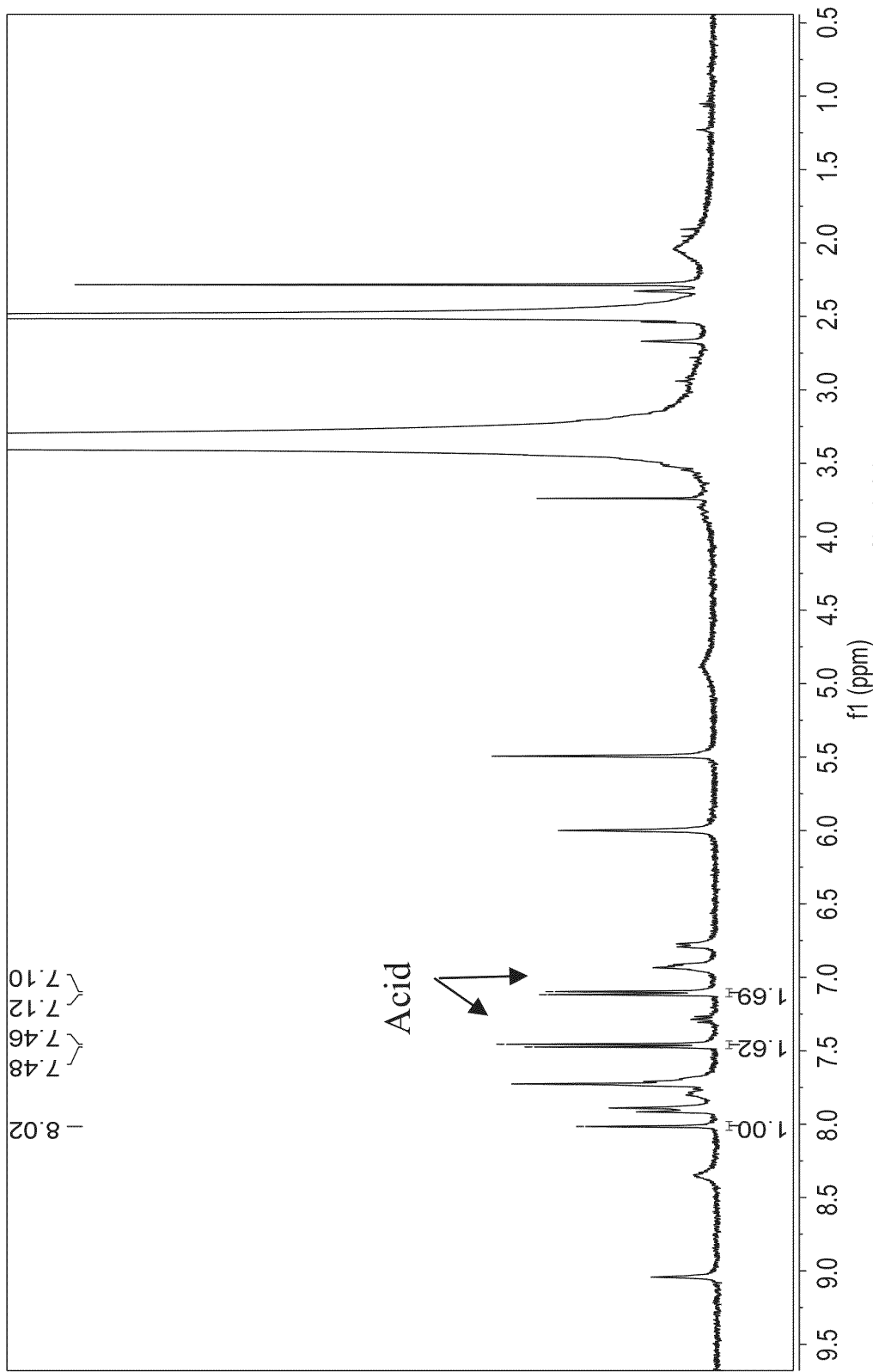
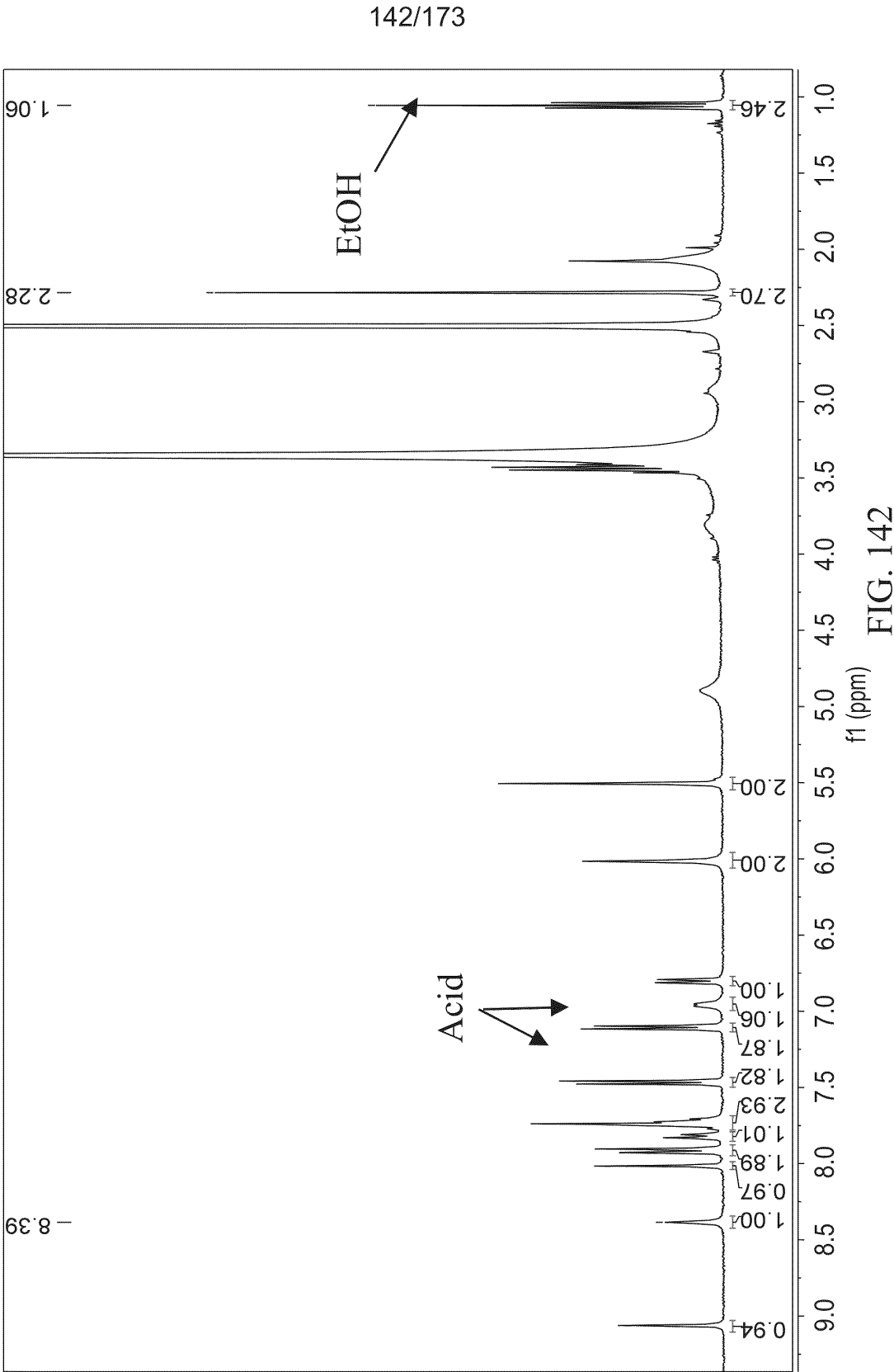


FIG. 141



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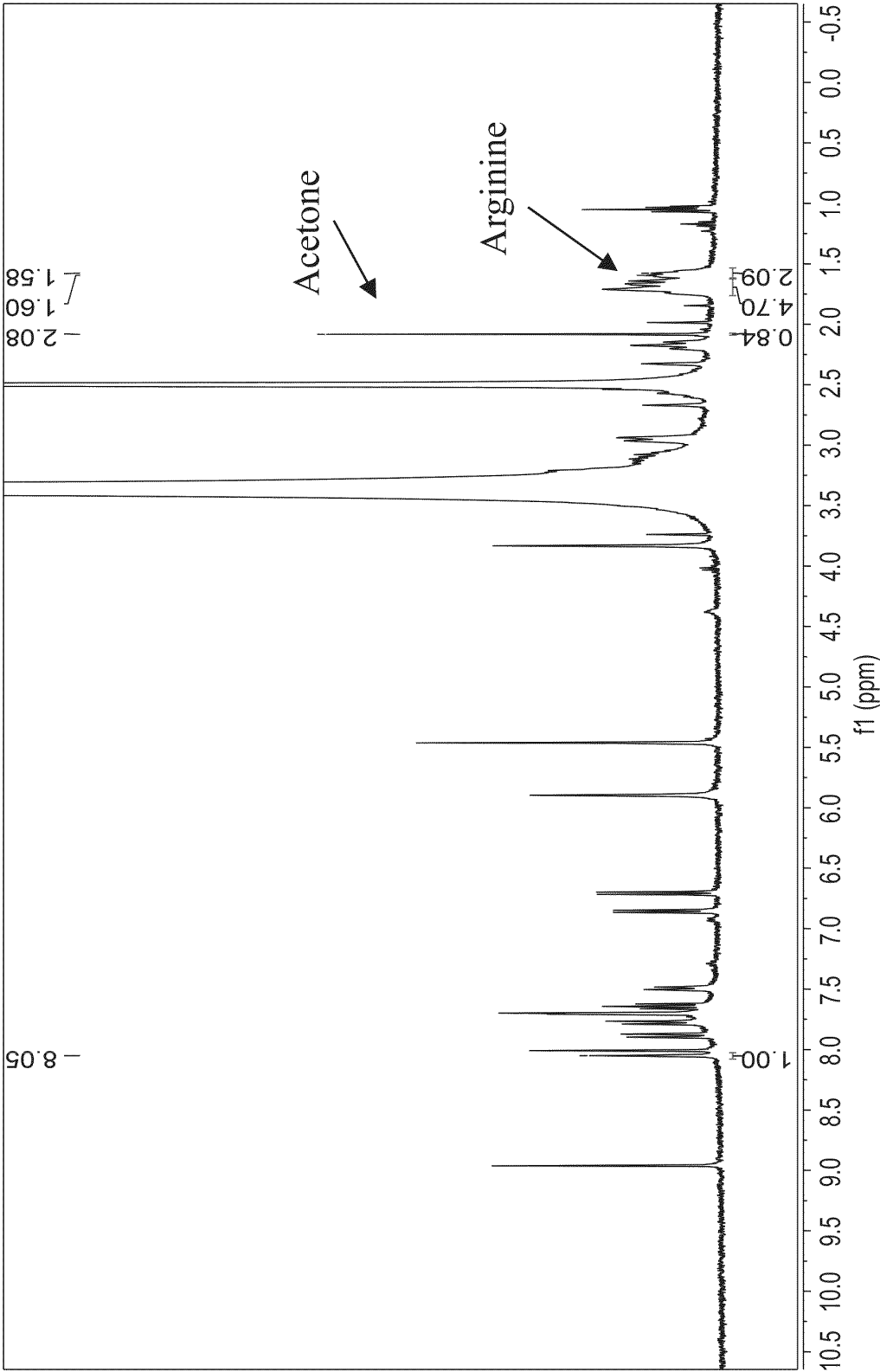


FIG. 143

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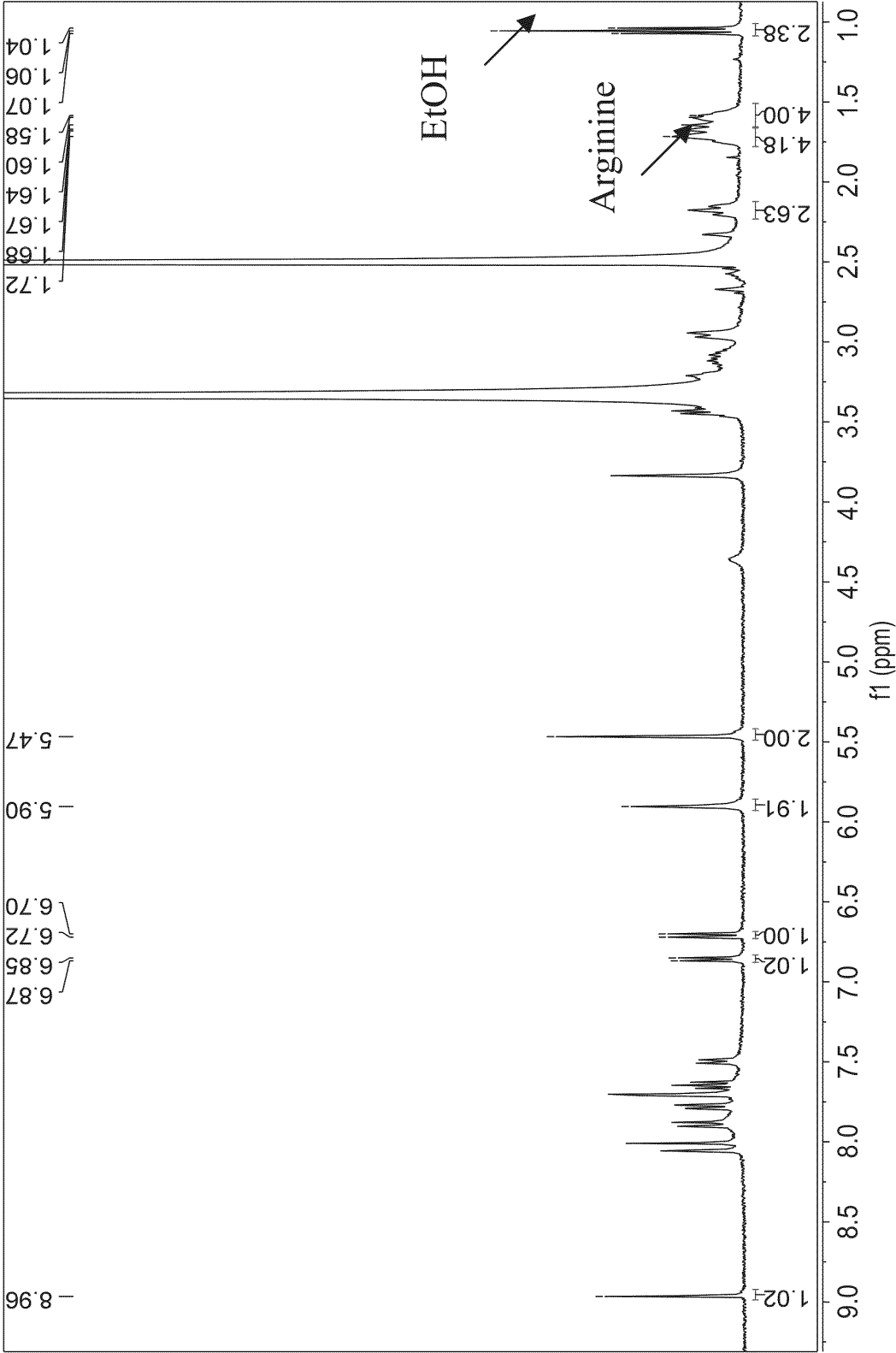


FIG. 144

1.04
1.06
1.08
1.38
1.40
1.42
1.45
1.47
1.48
1.50
1.52

0.87
5.10
4.10
1.00
-8.08

Lysine

EtOH

f1 (ppm)

FIG. 145

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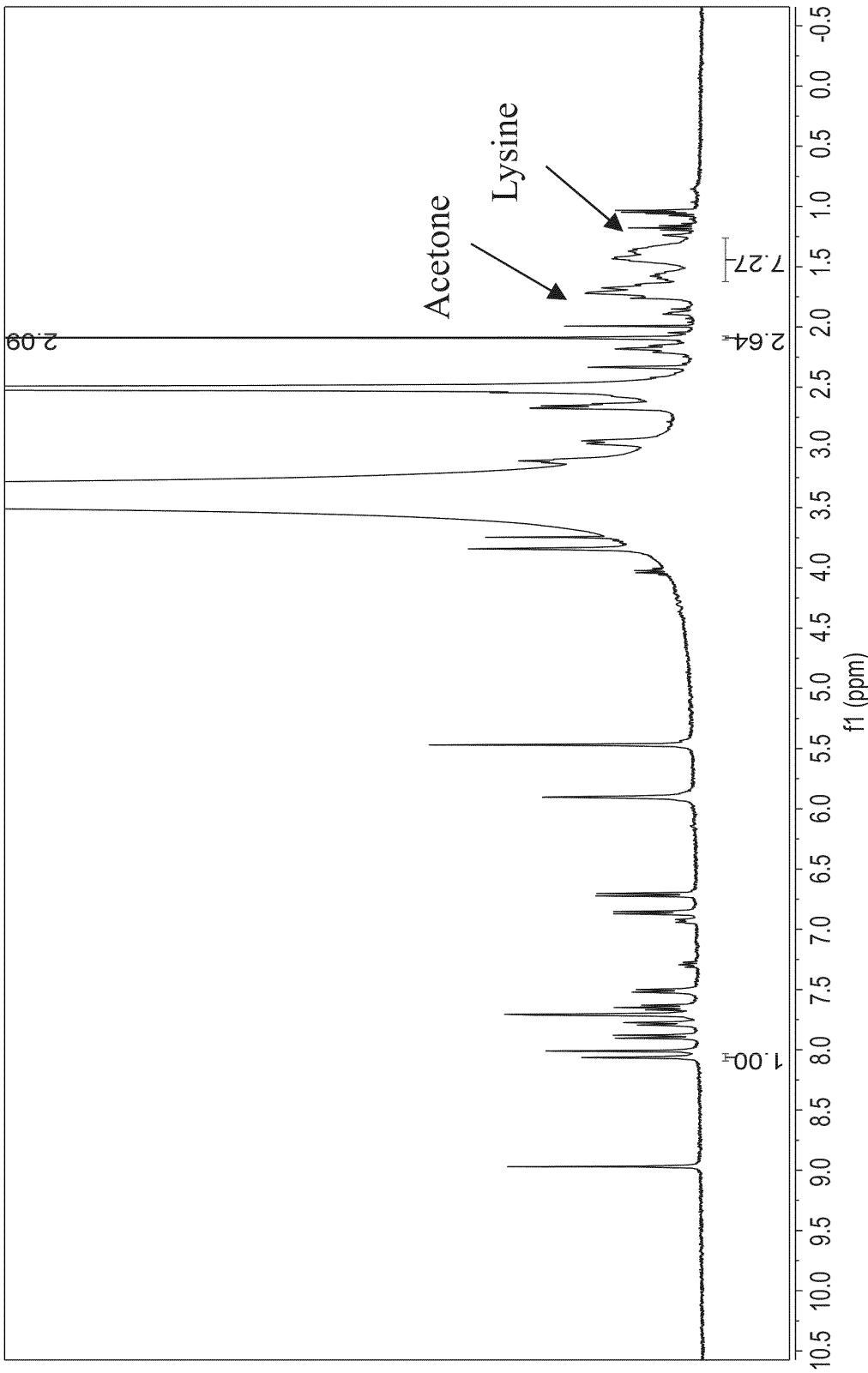


FIG. 146

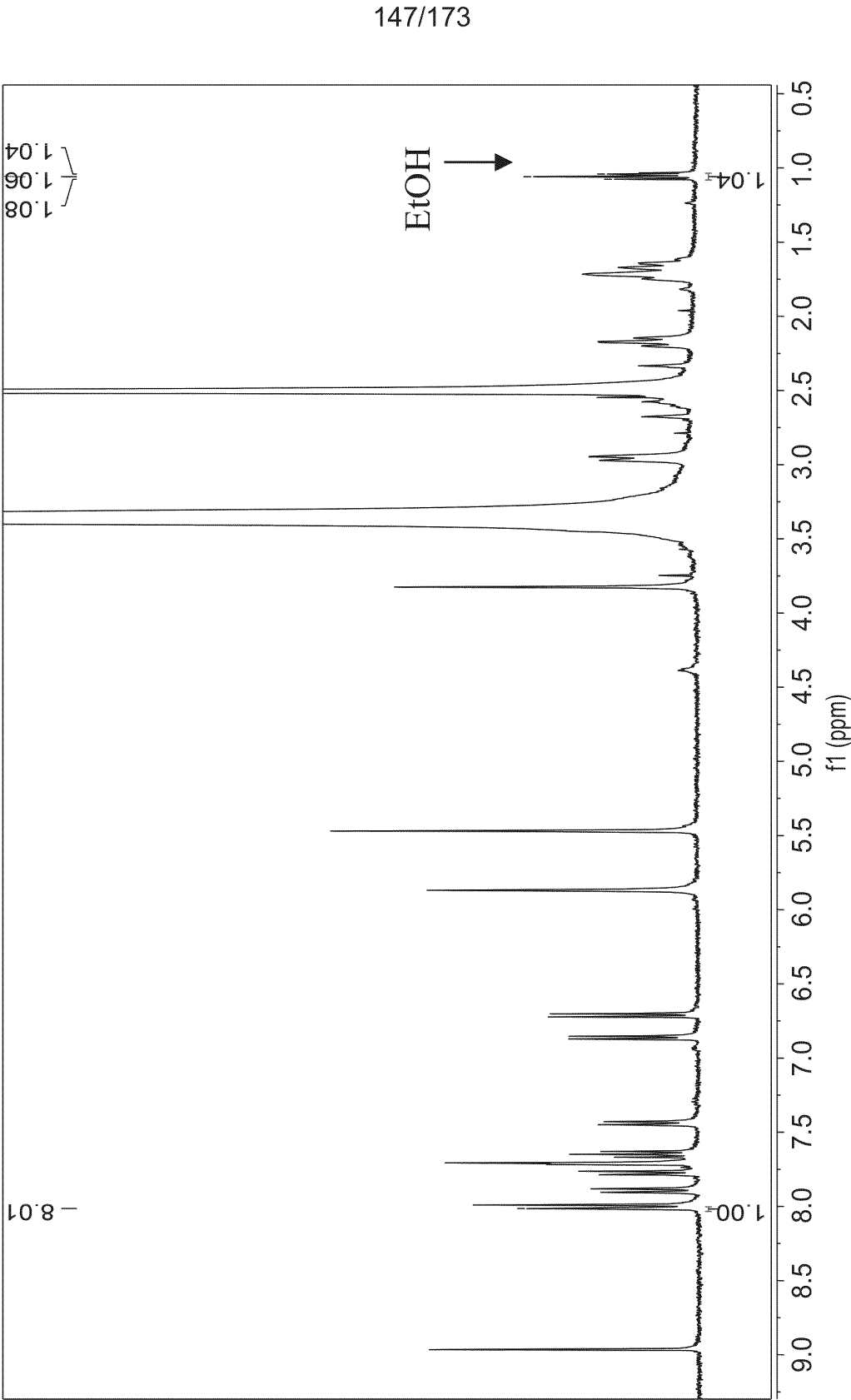


FIG. 147

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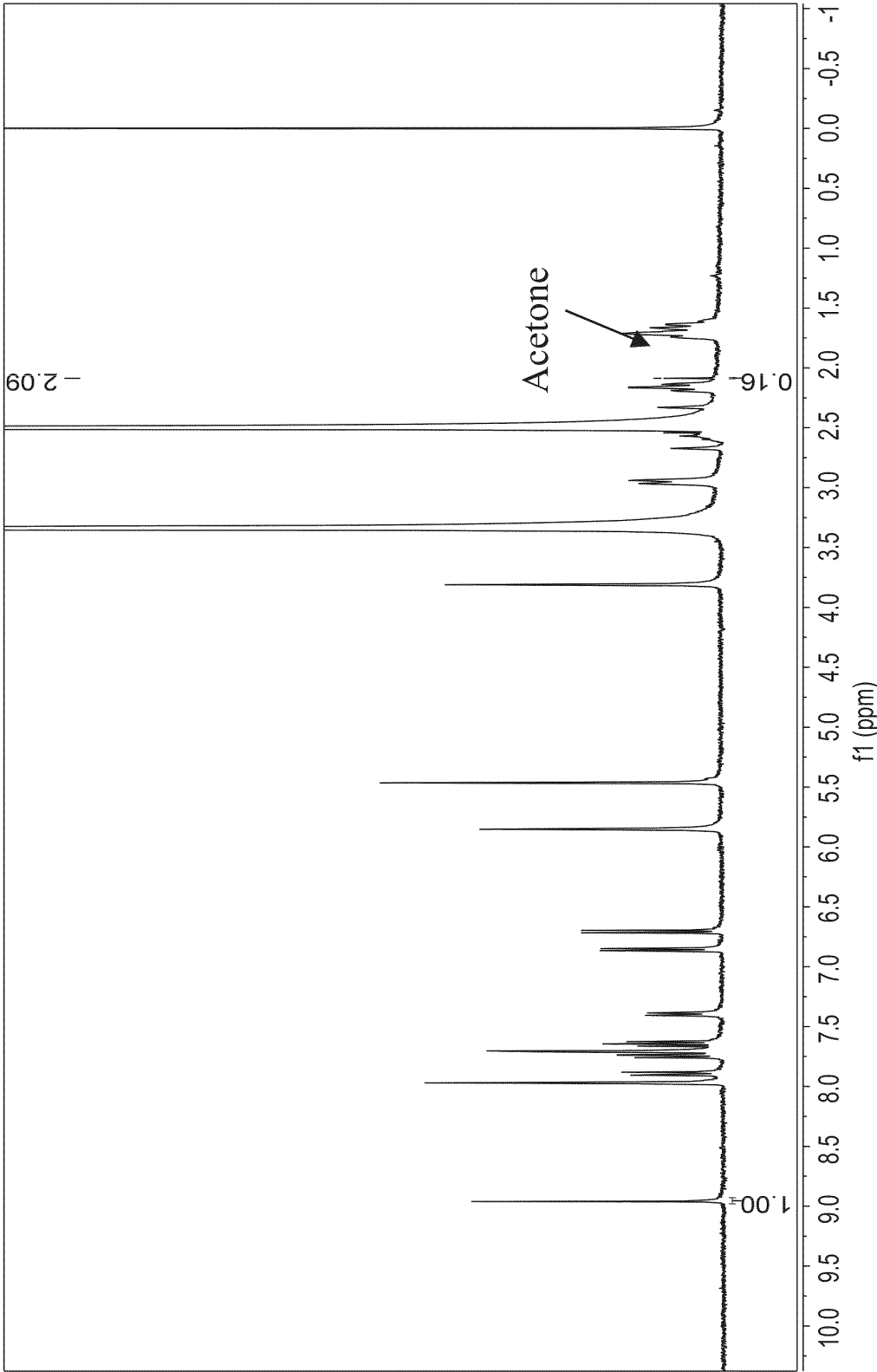


FIG. 148

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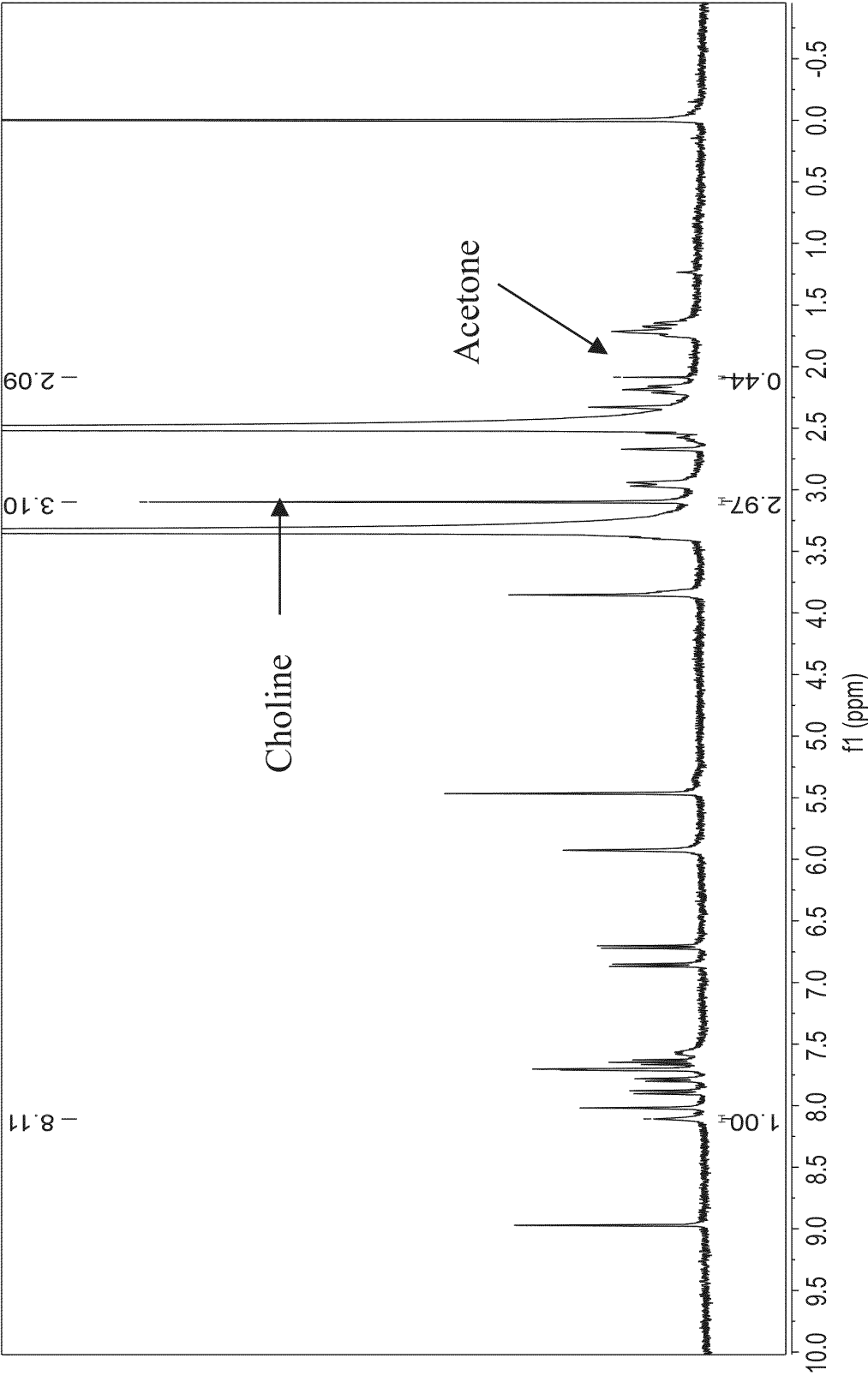


FIG. 149

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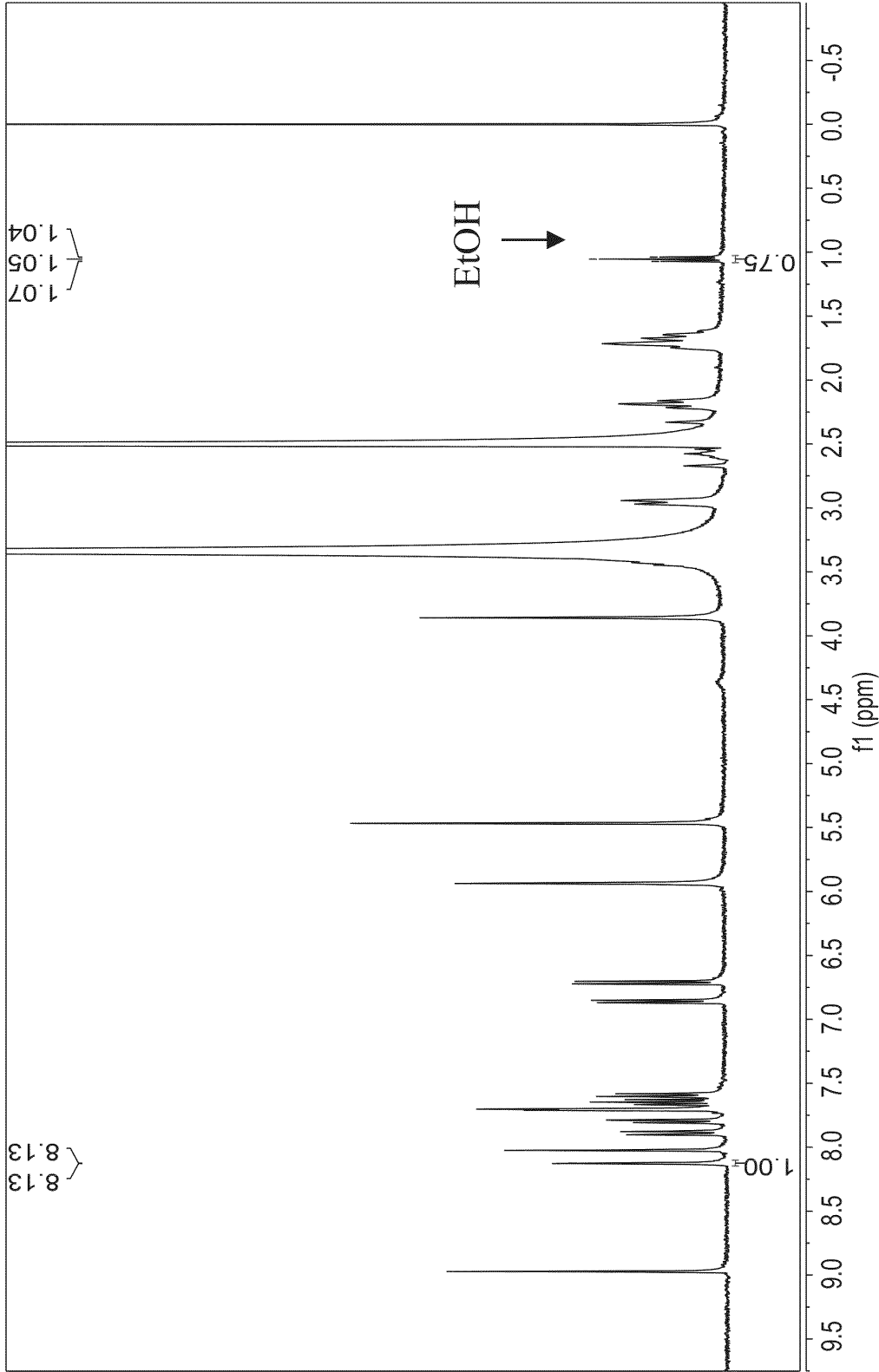


FIG. 150

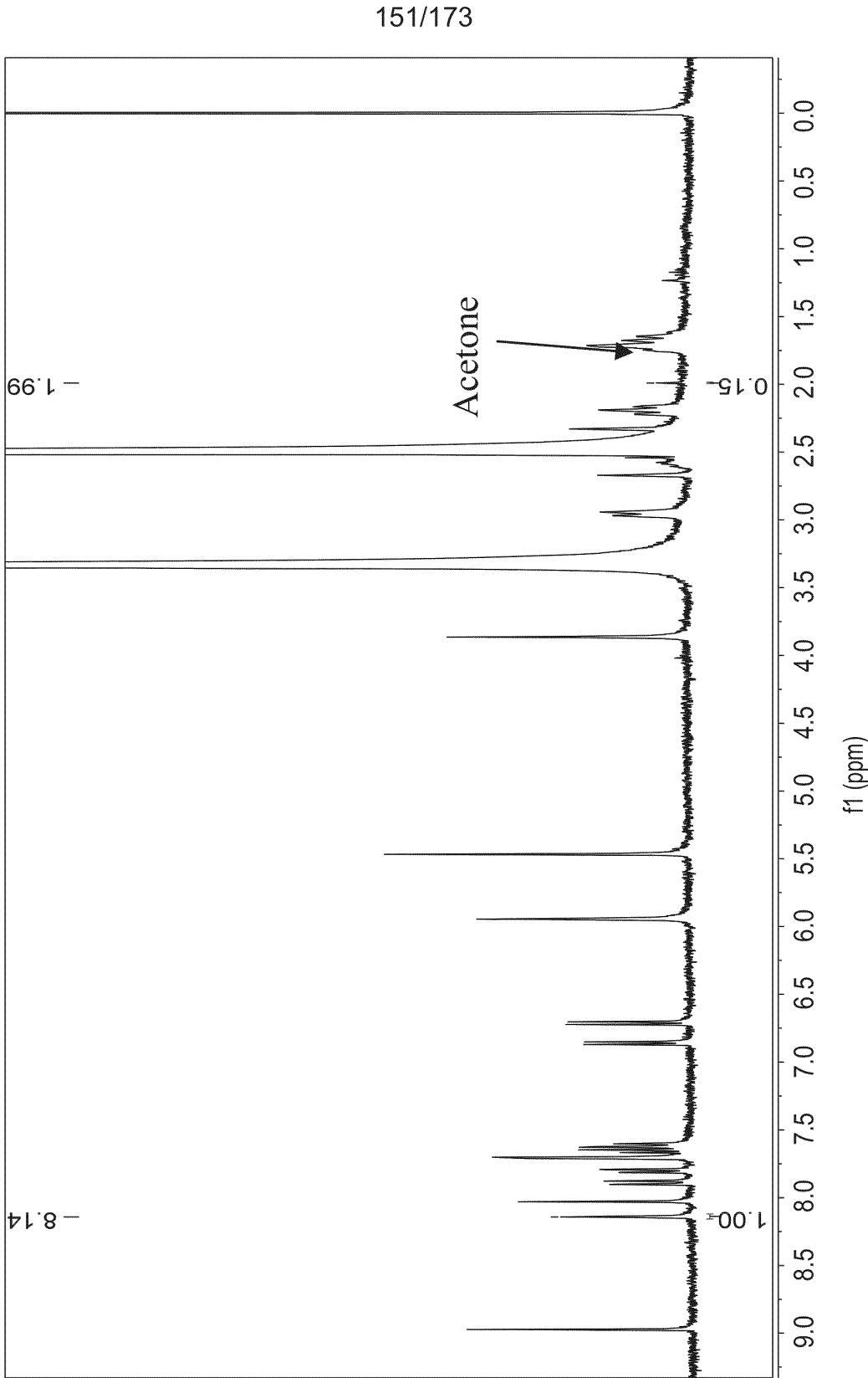


FIG. 151

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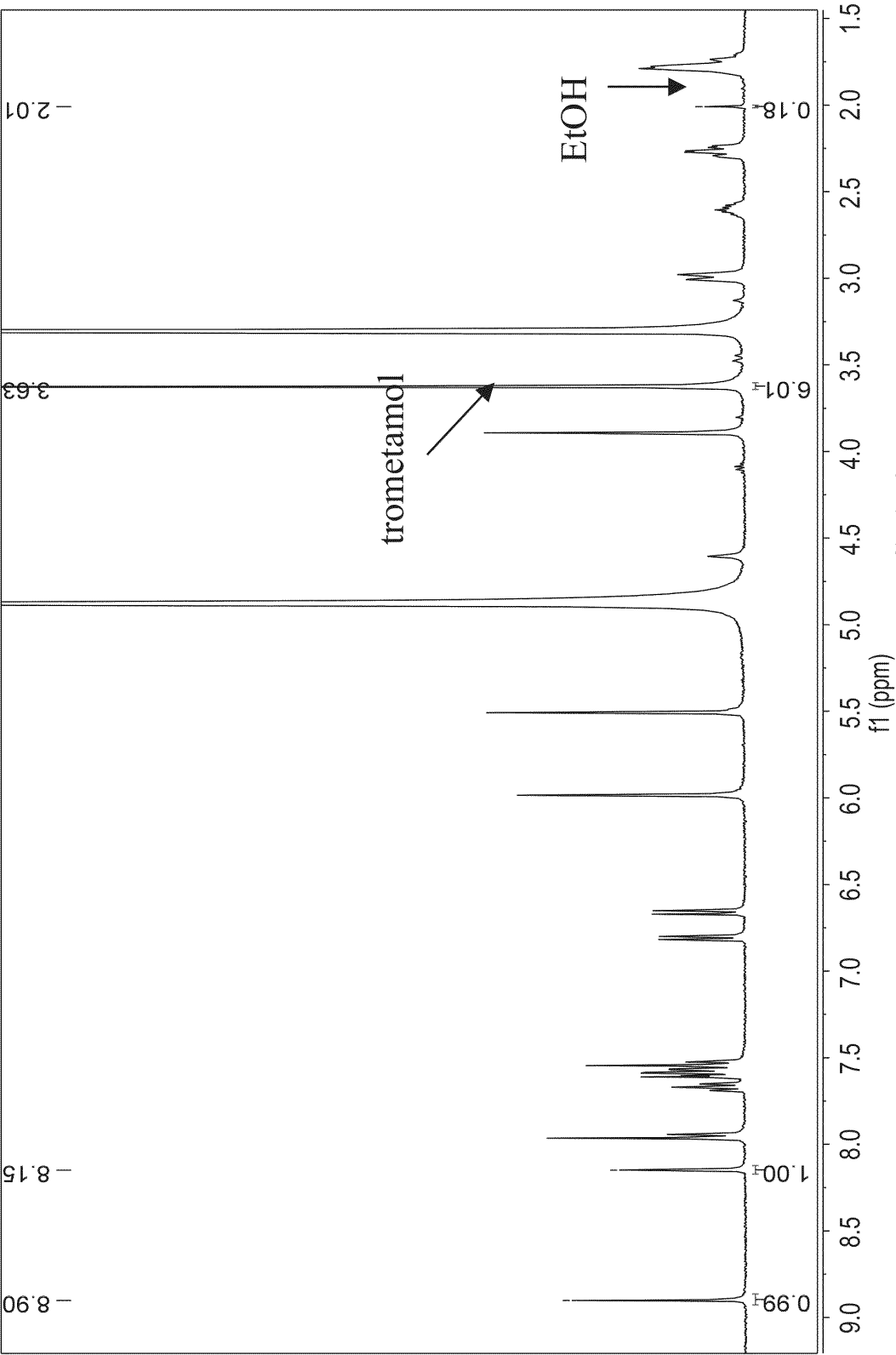


FIG. 152

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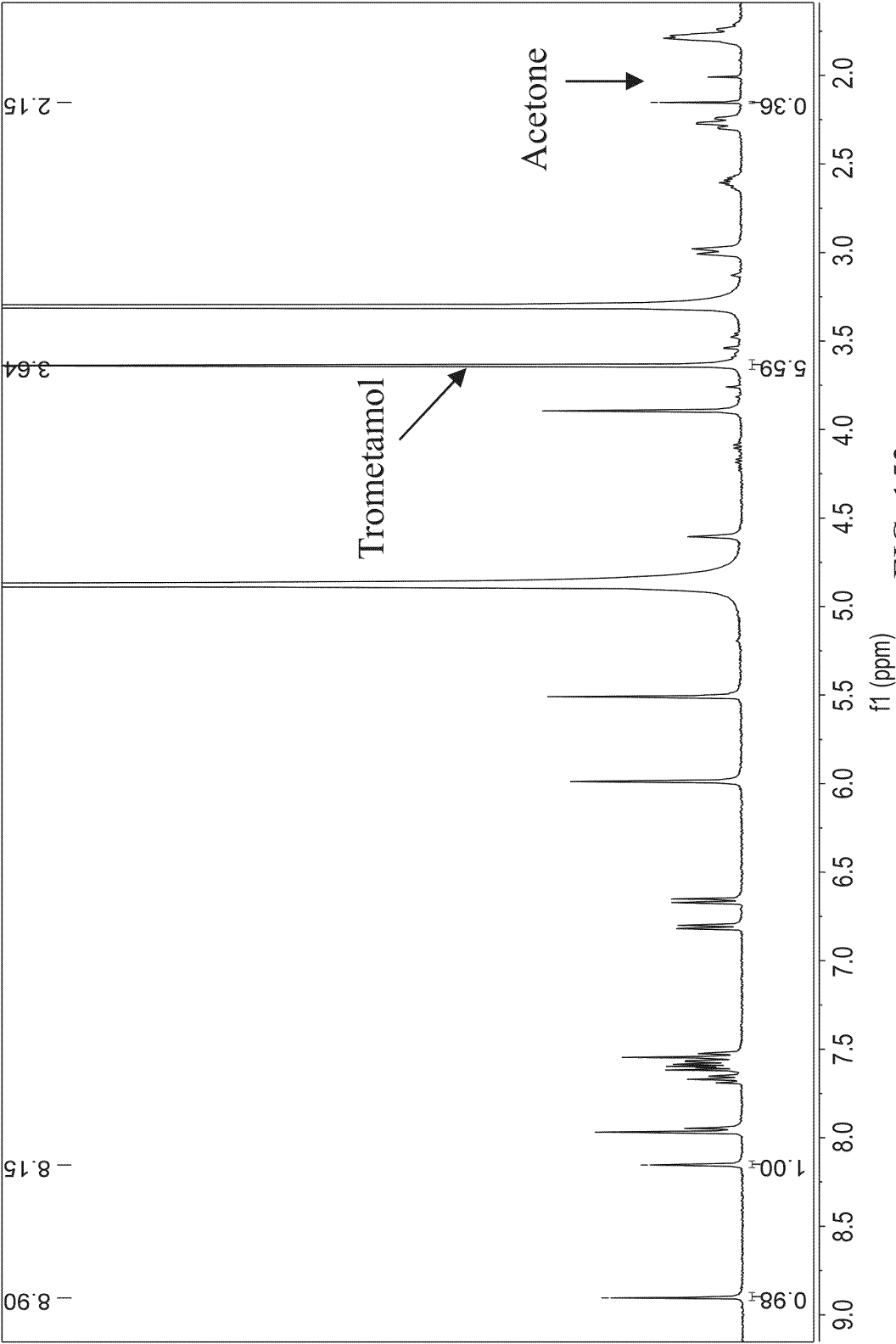


FIG. 153

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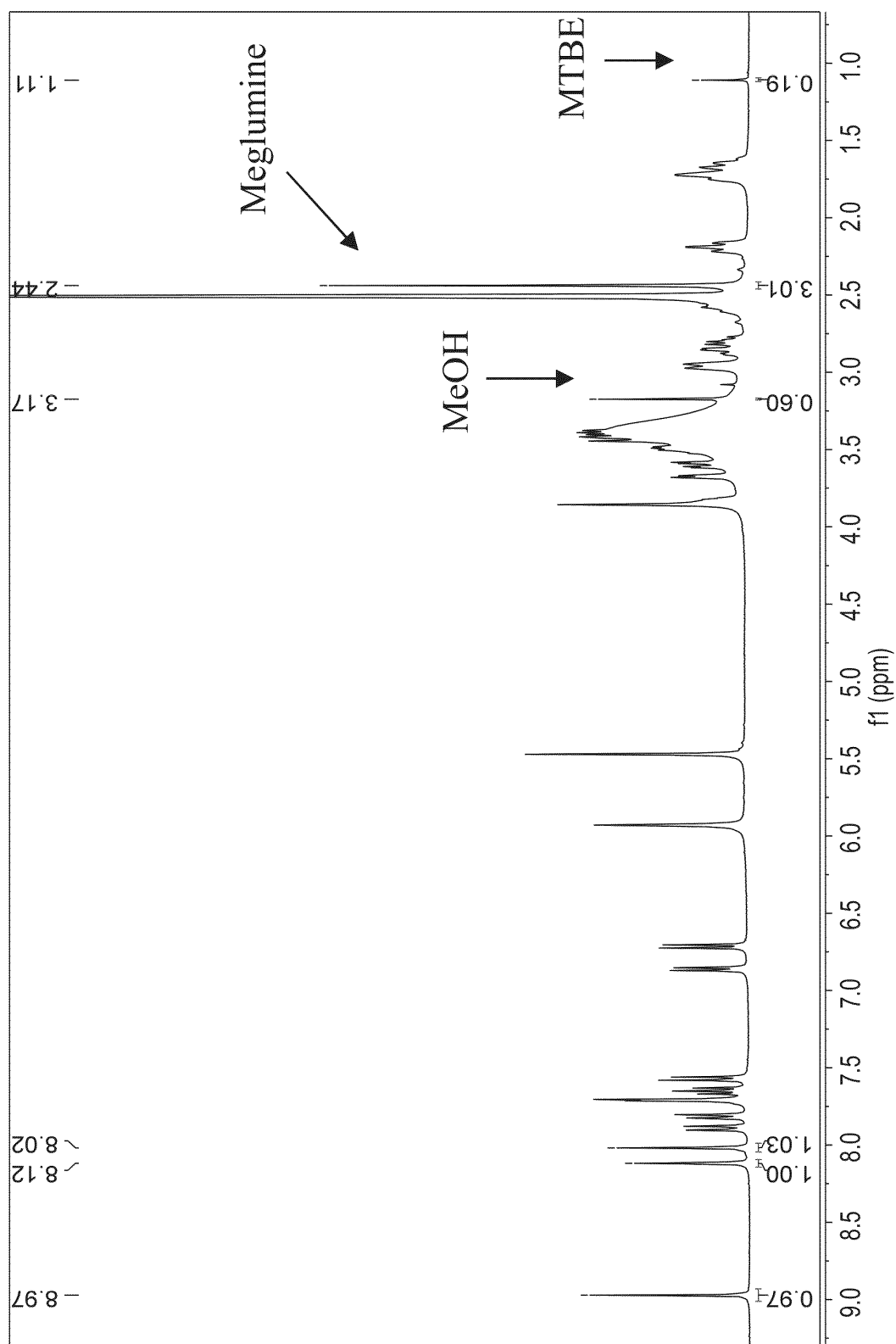


FIG. 154

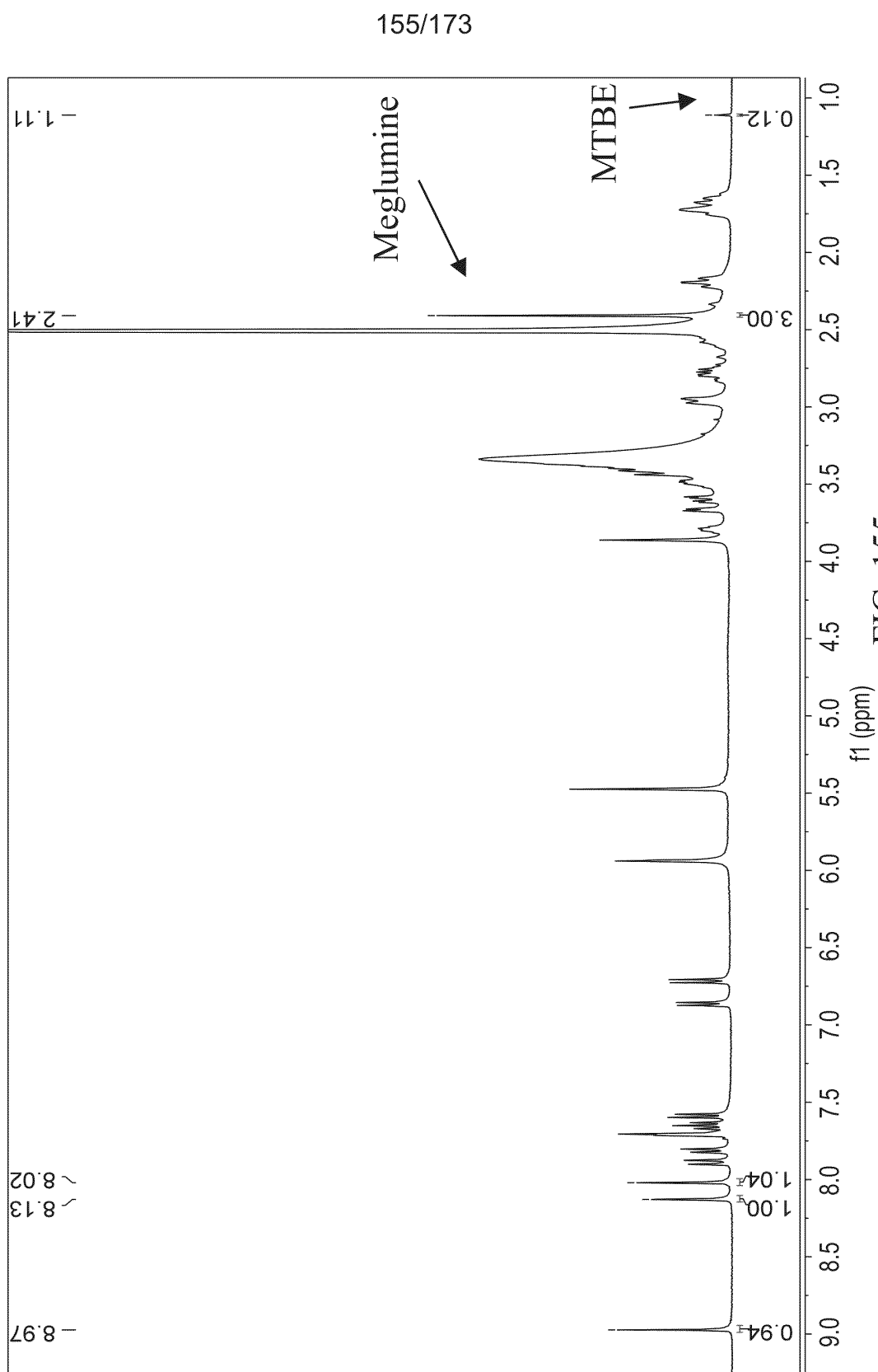
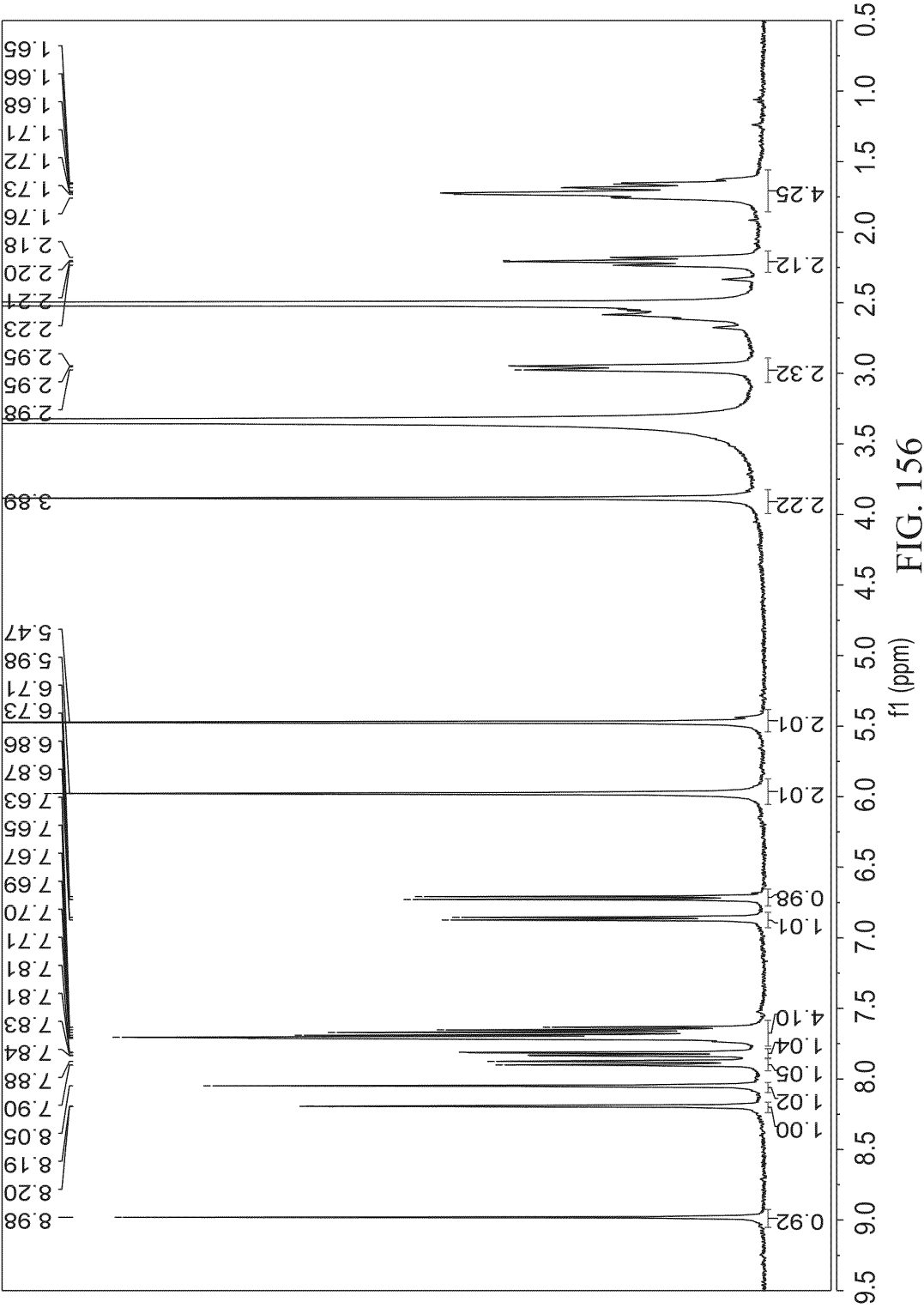


FIG. 155

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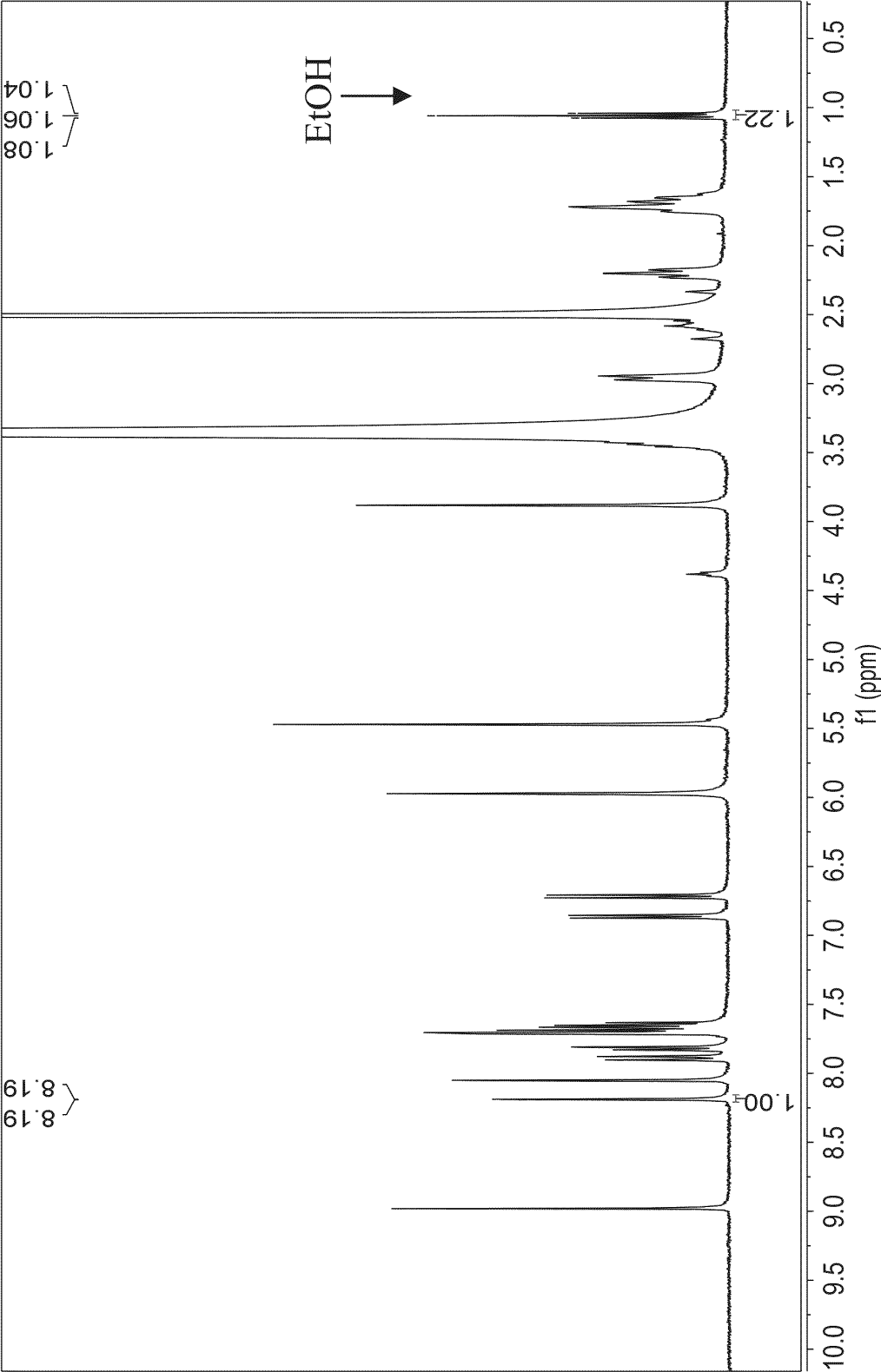


FIG. 157

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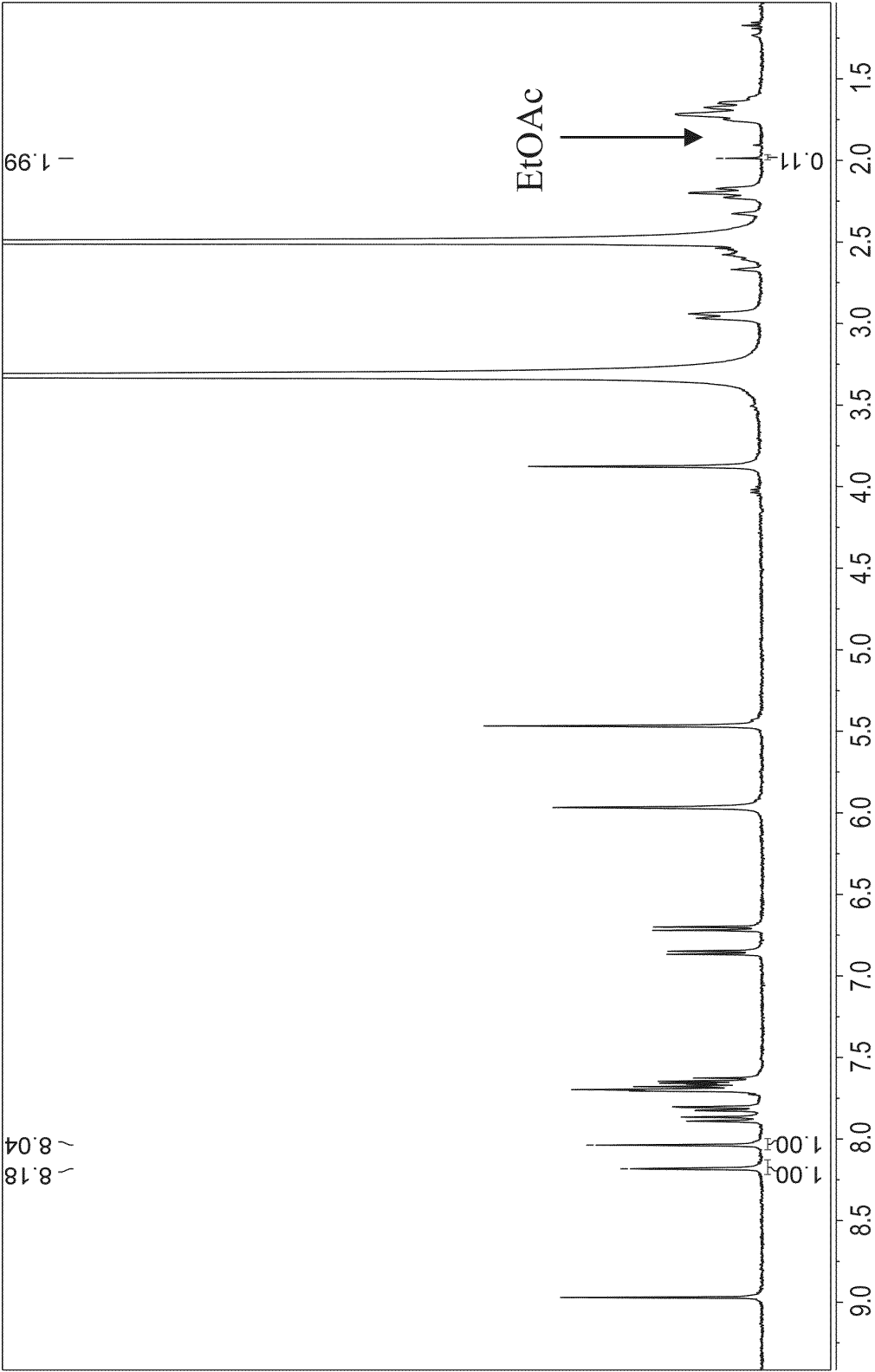
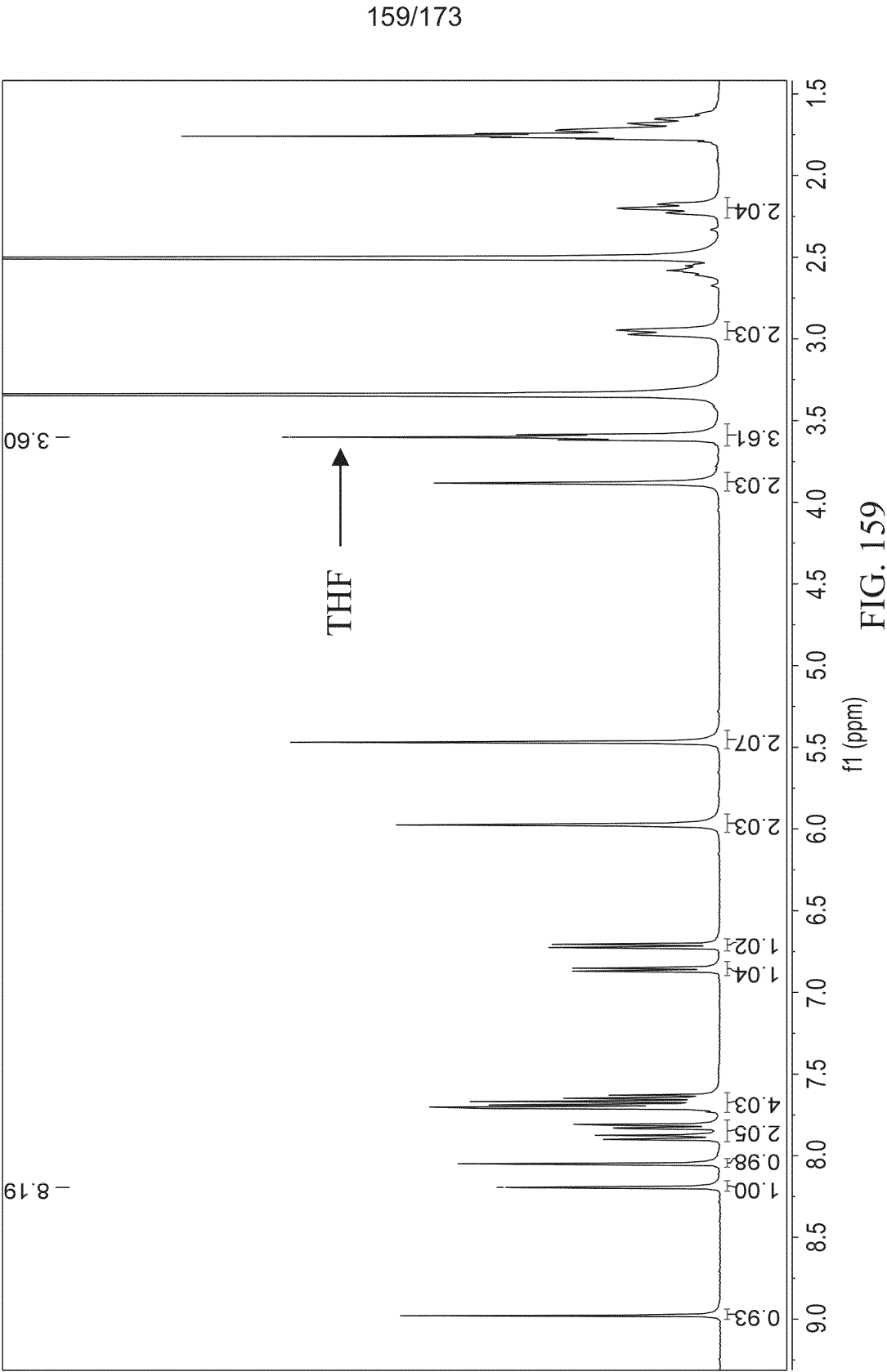


FIG. 158



¹H NMR spectrum of compound **1** in MeOH-d₄. The x-axis represents the chemical shift in ppm, ranging from 9.0 to 1.5. The y-axis represents the intensity of the signal. The spectrum shows several peaks, with integrations provided for some of them. A peak at approximately 3.3 ppm is labeled as MeOH.

Chemical Shift (ppm)	Integration
8.98	0.50
7.8 - 8.2	1.08, 2.01, 0.51, 0.51
6.0	1.00
5.5	1.00
3.17 - 3.18	3.17, 3.18
1.5 - 2.5	0.18

FIG. 160

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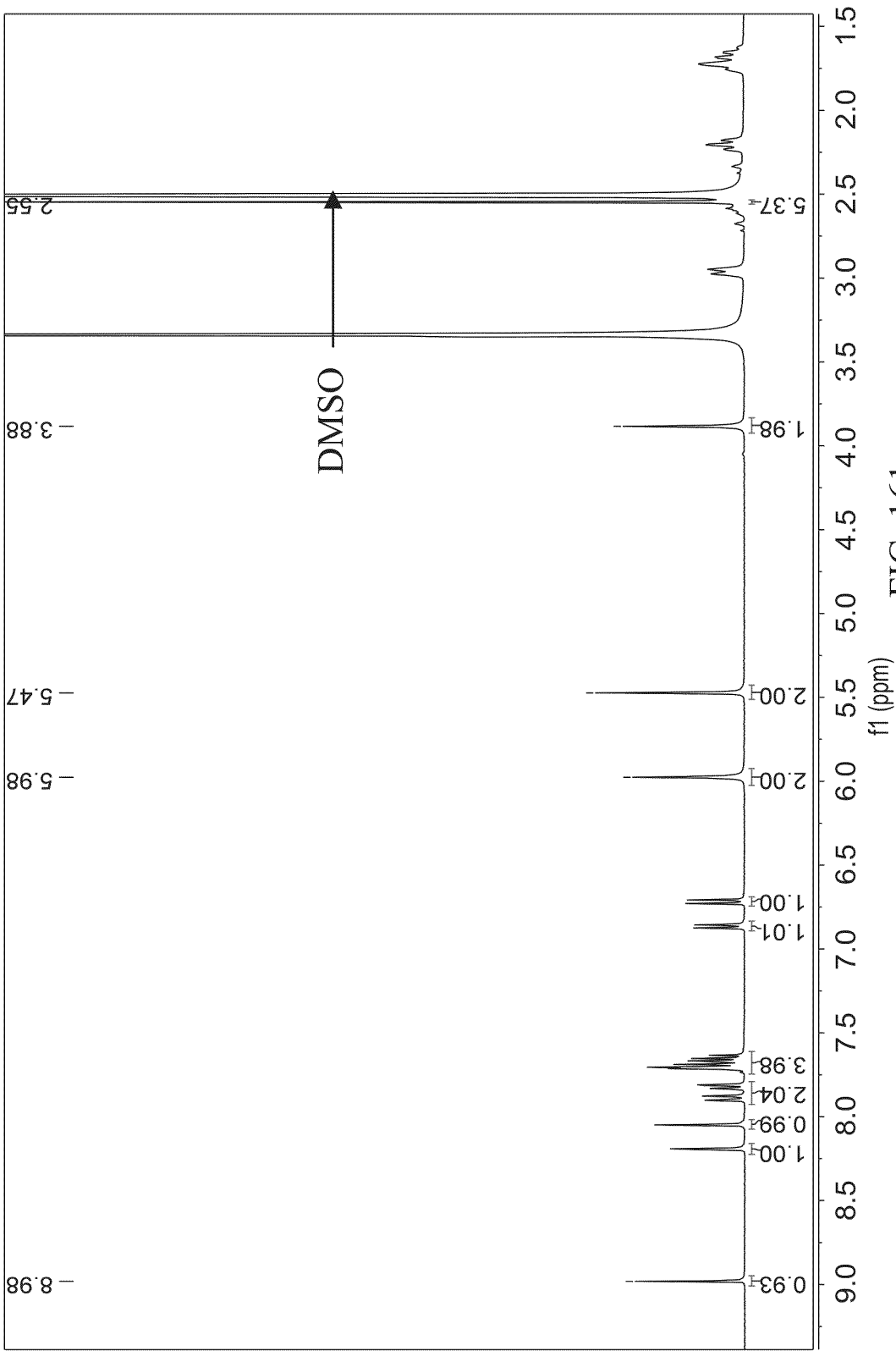


FIG. 161

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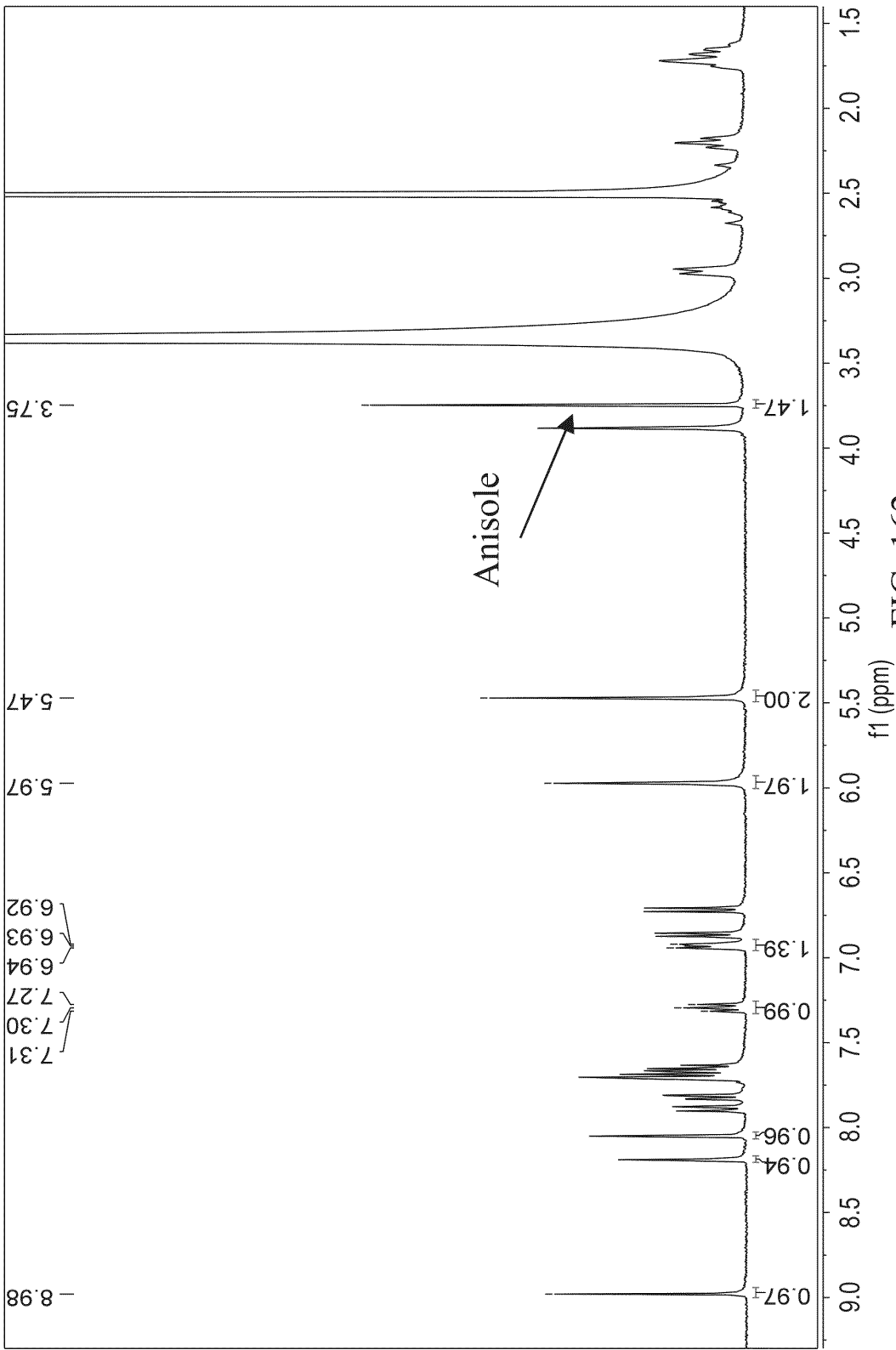
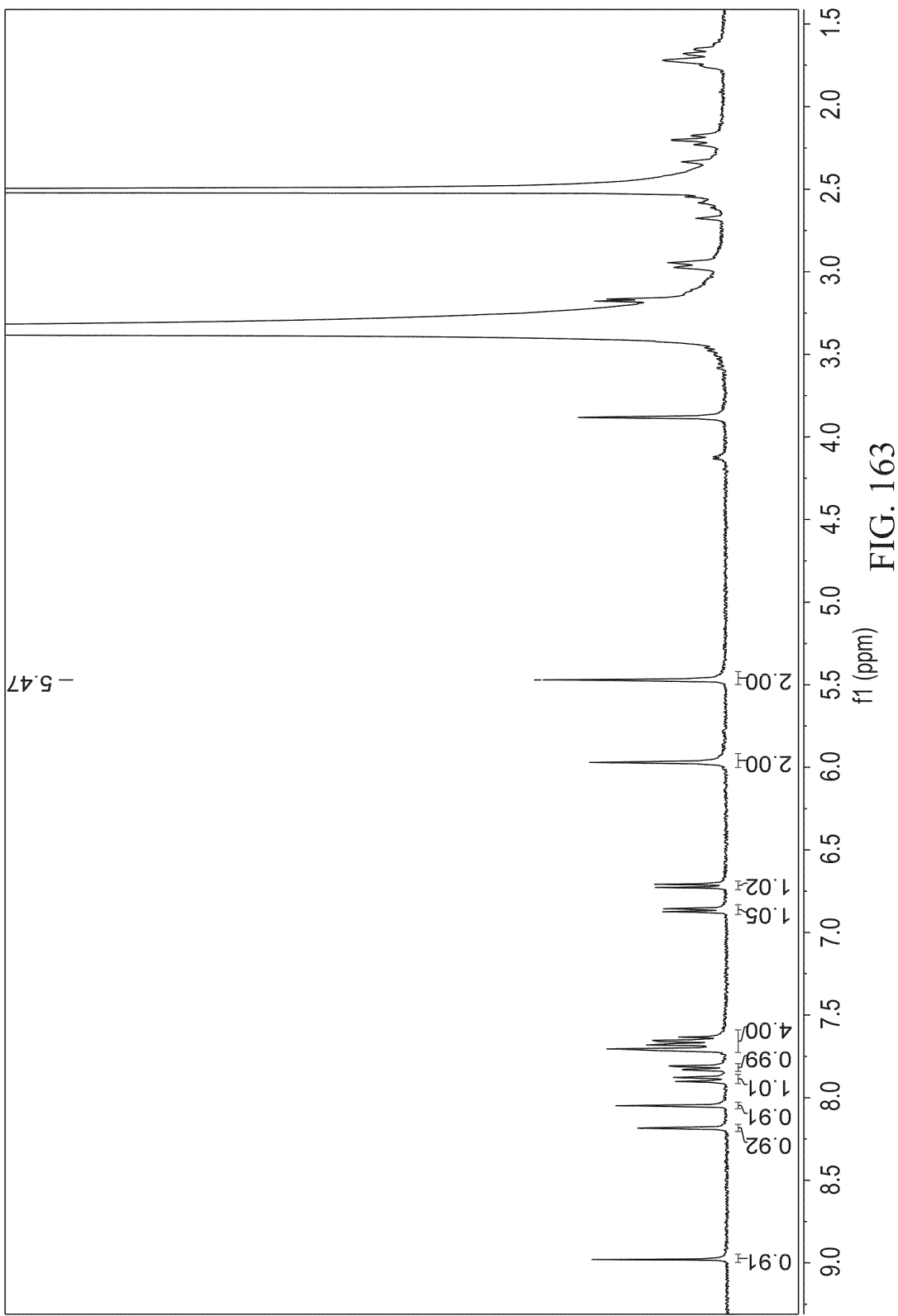


FIG. 162

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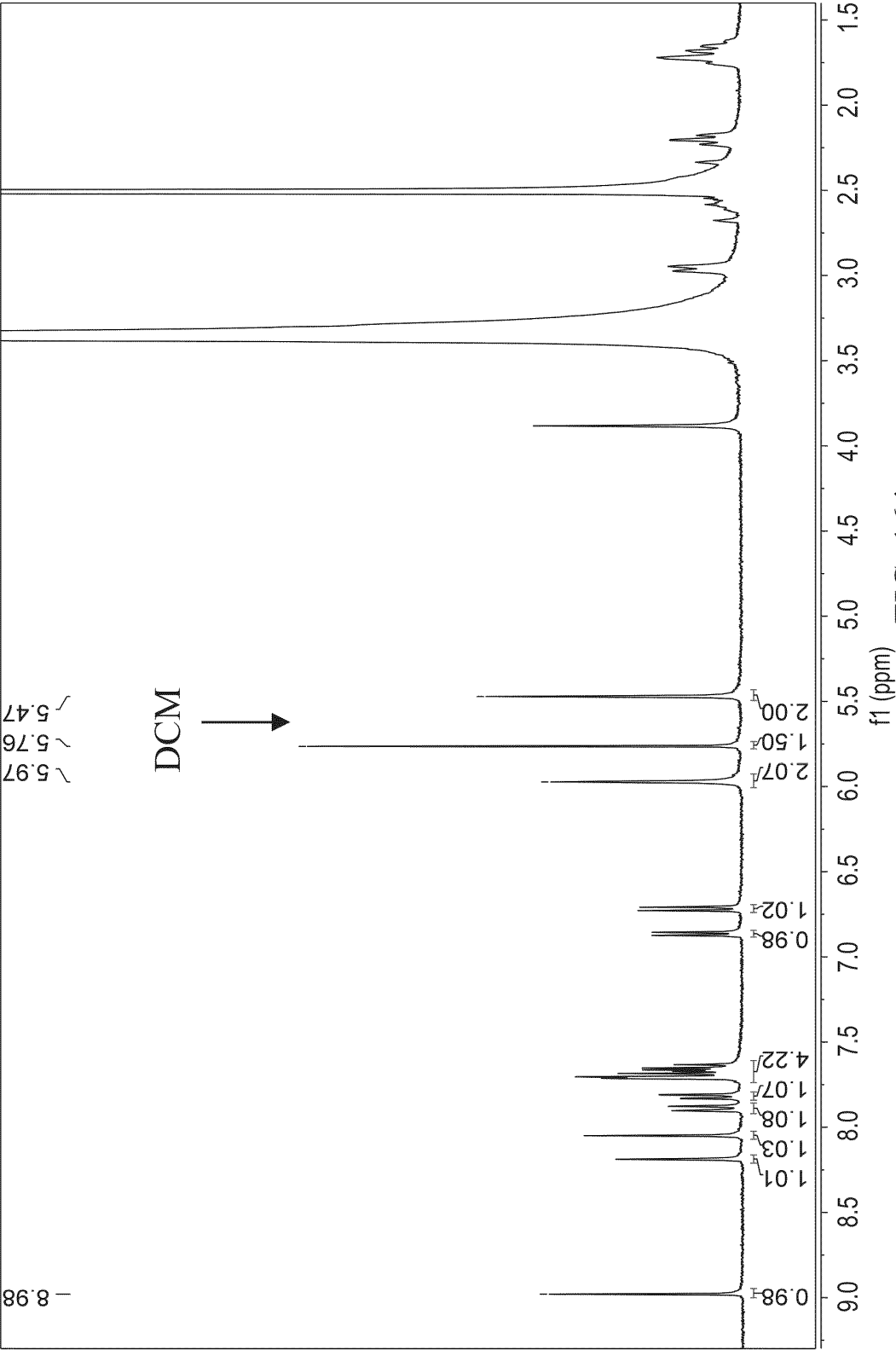


FIG. 164

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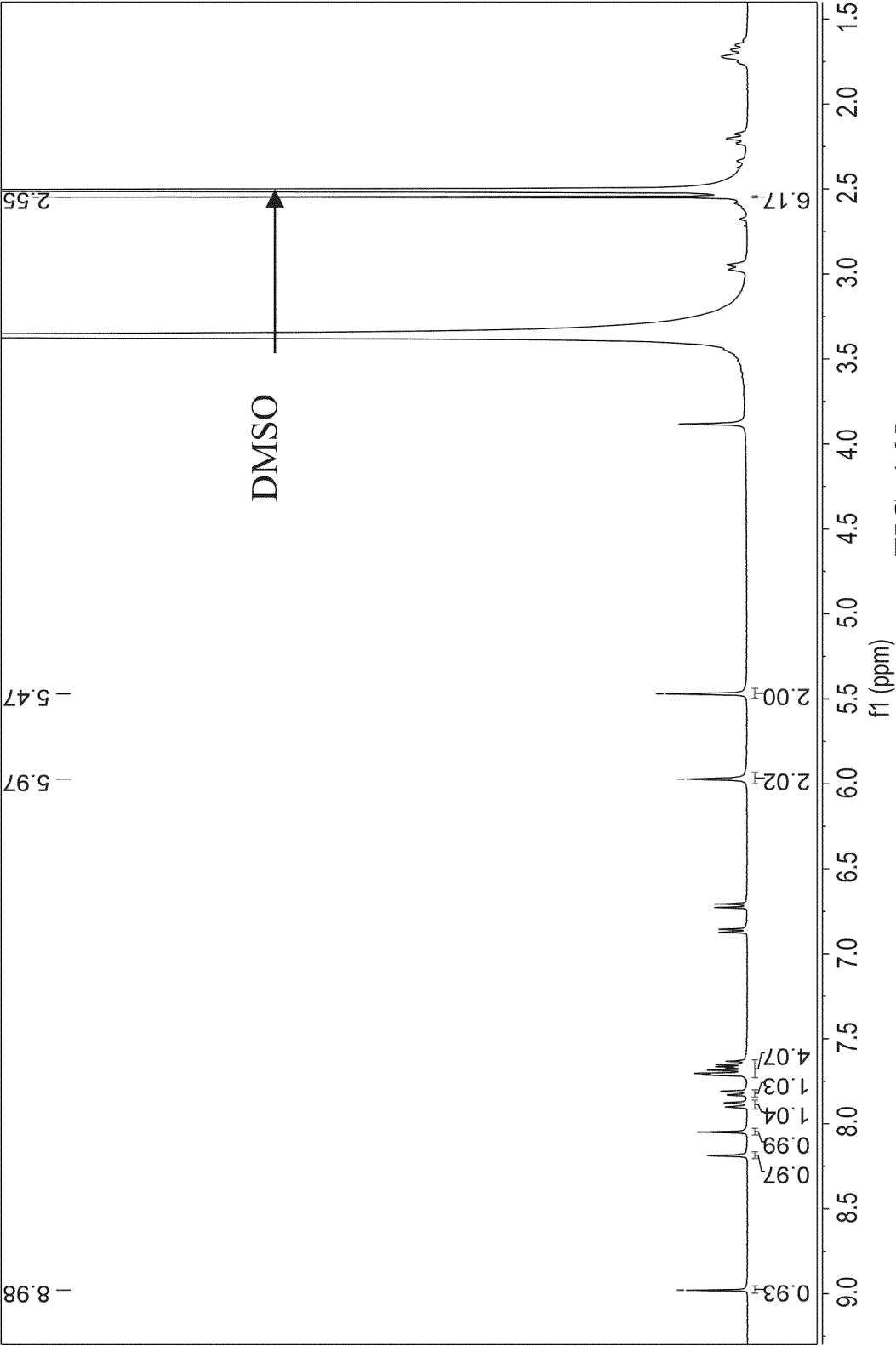


FIG. 165

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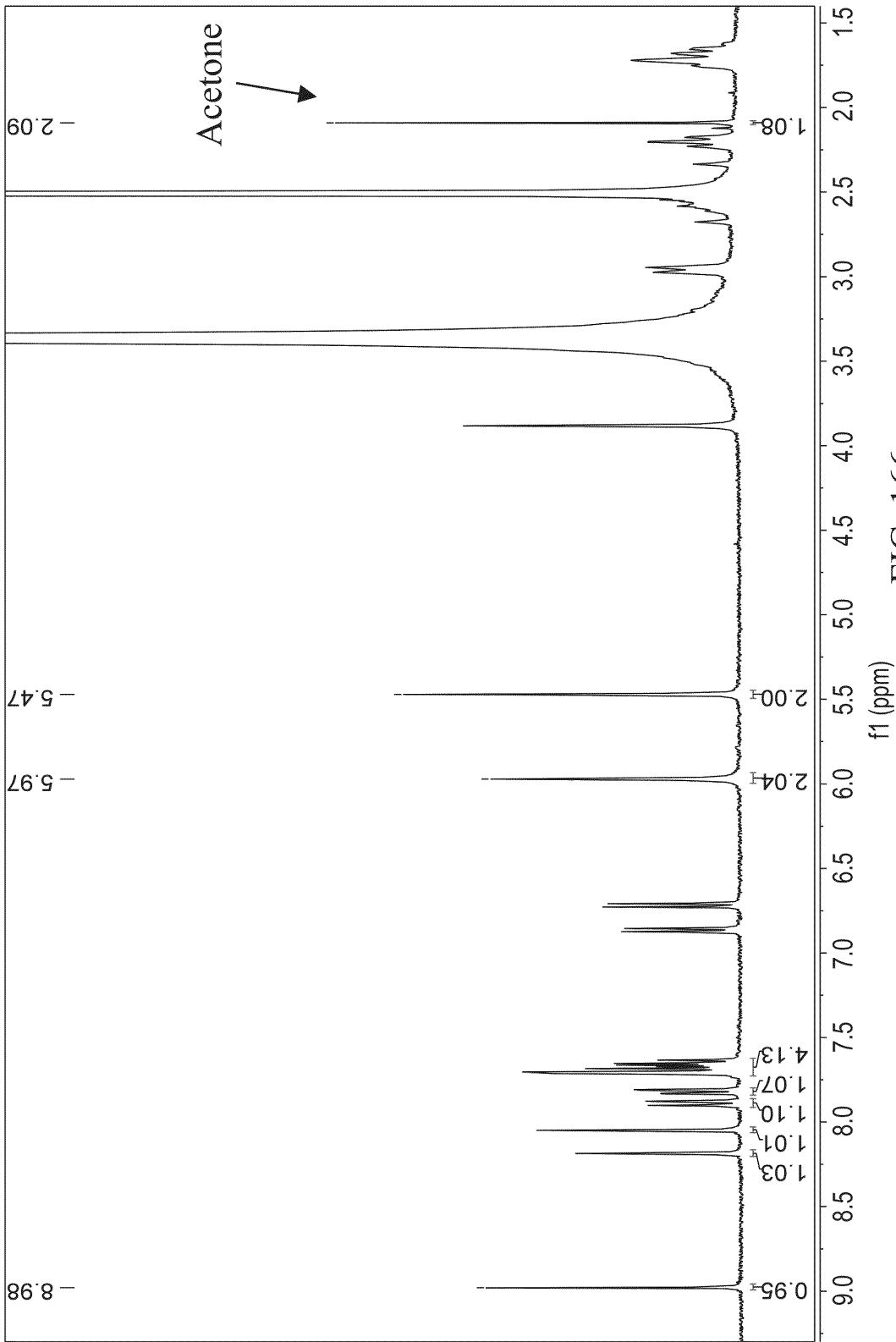
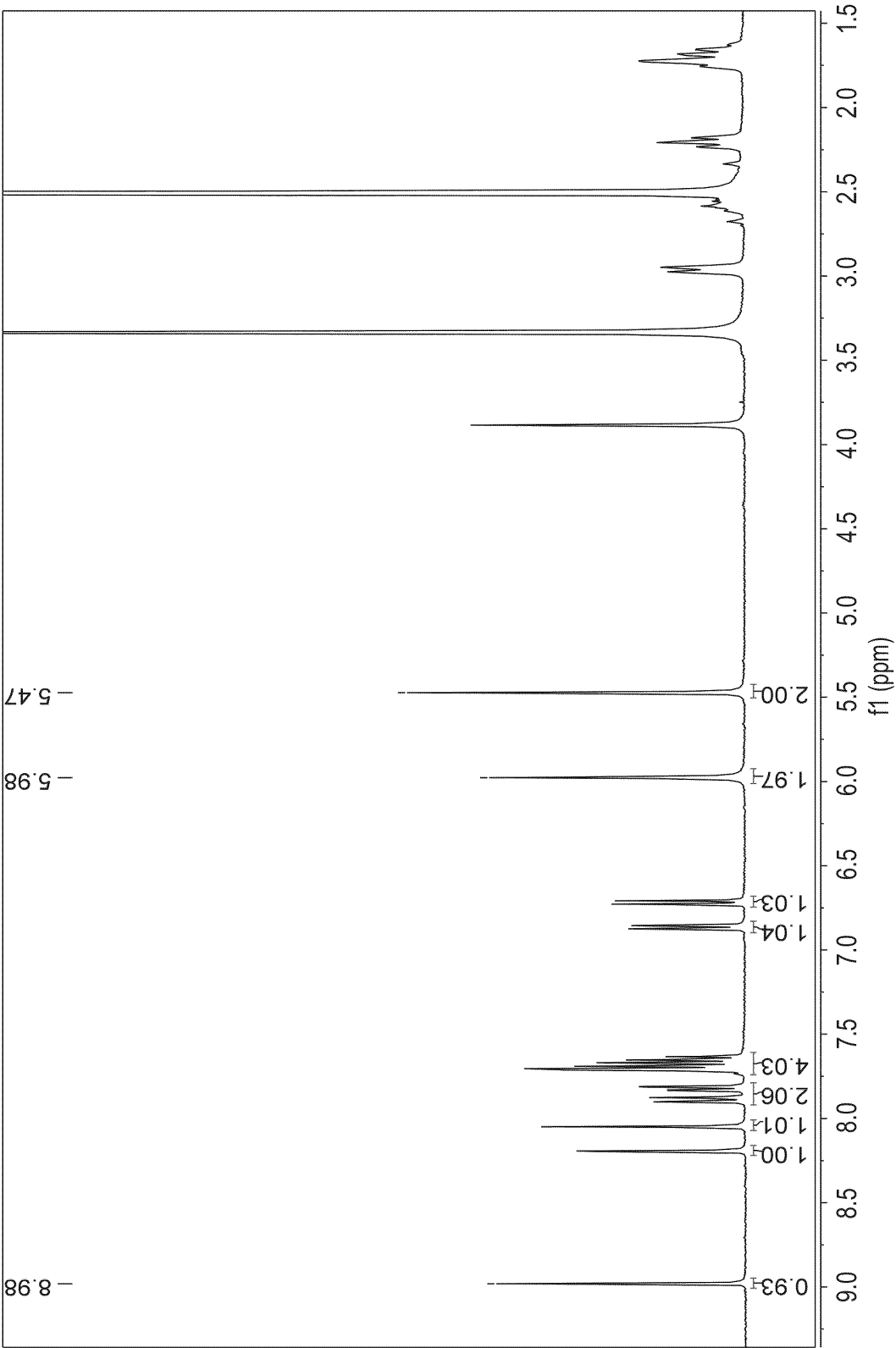


FIG. 166

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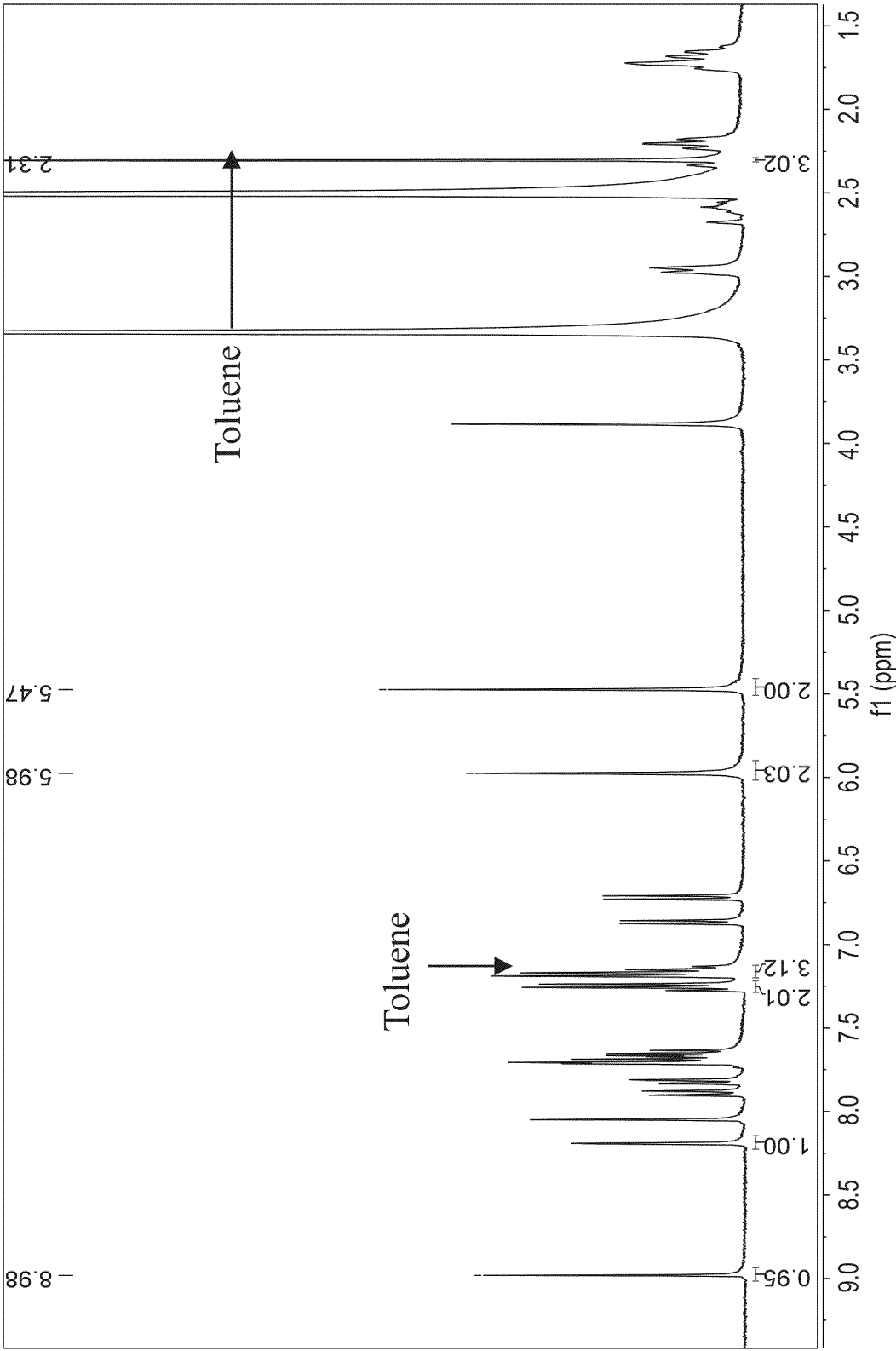
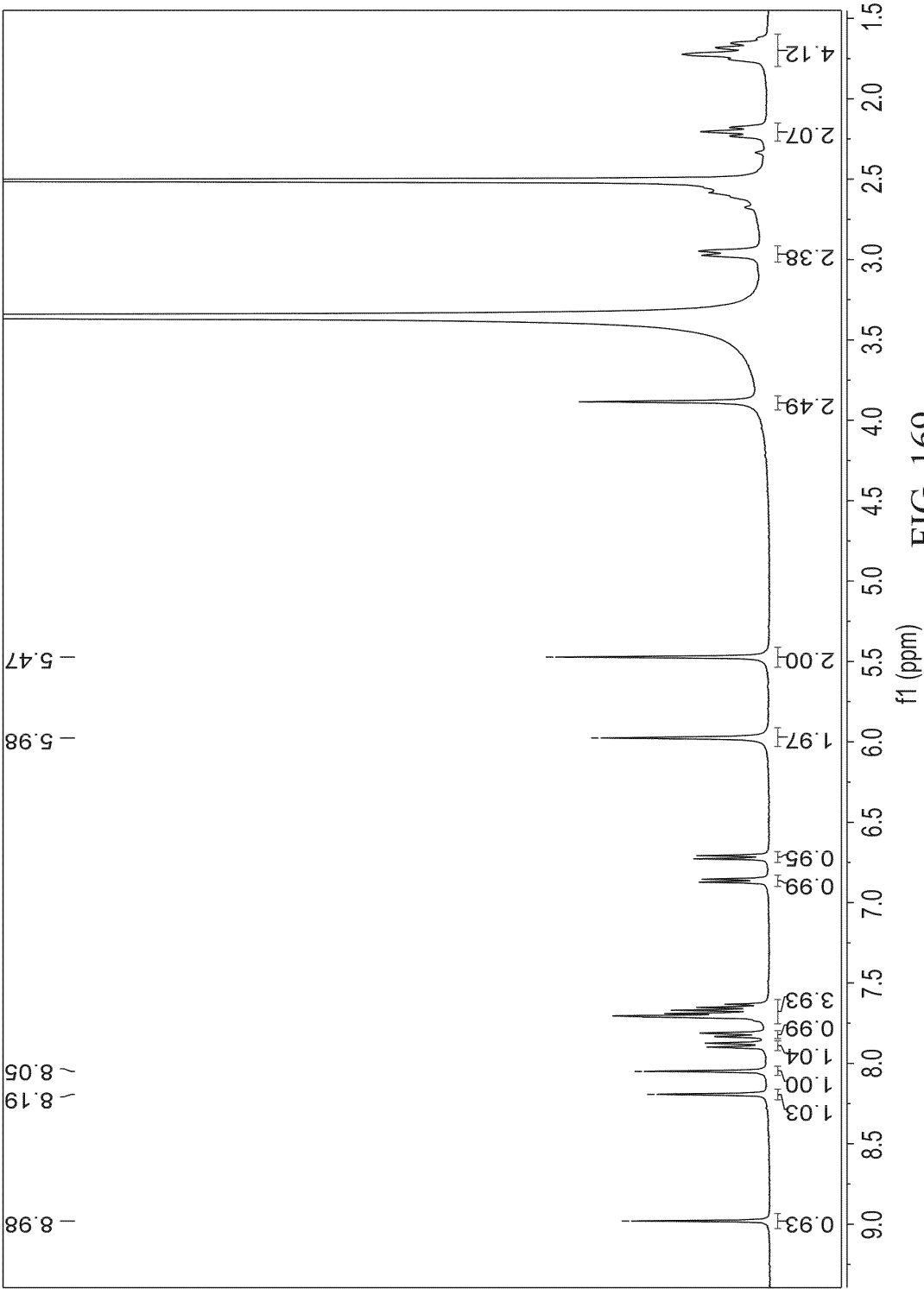


FIG. 168

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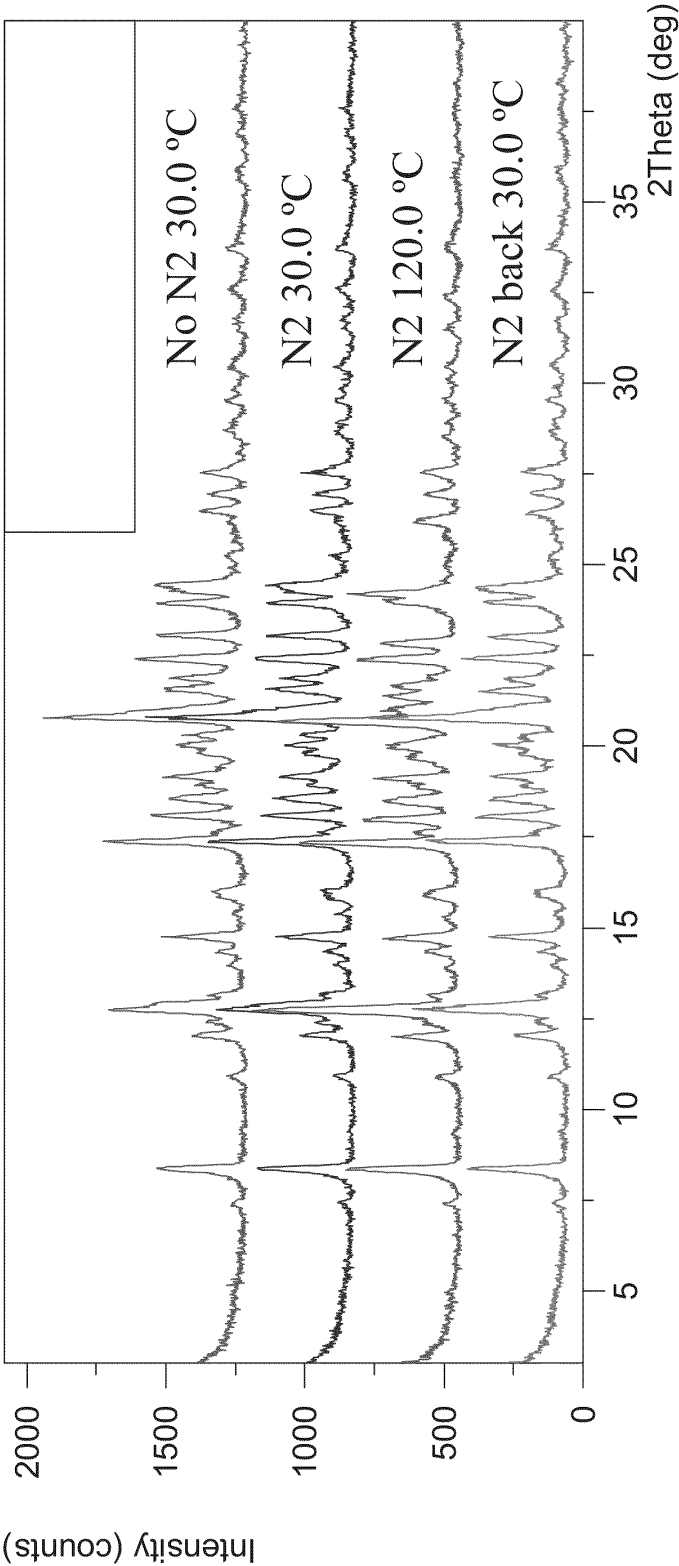


FIG. 170

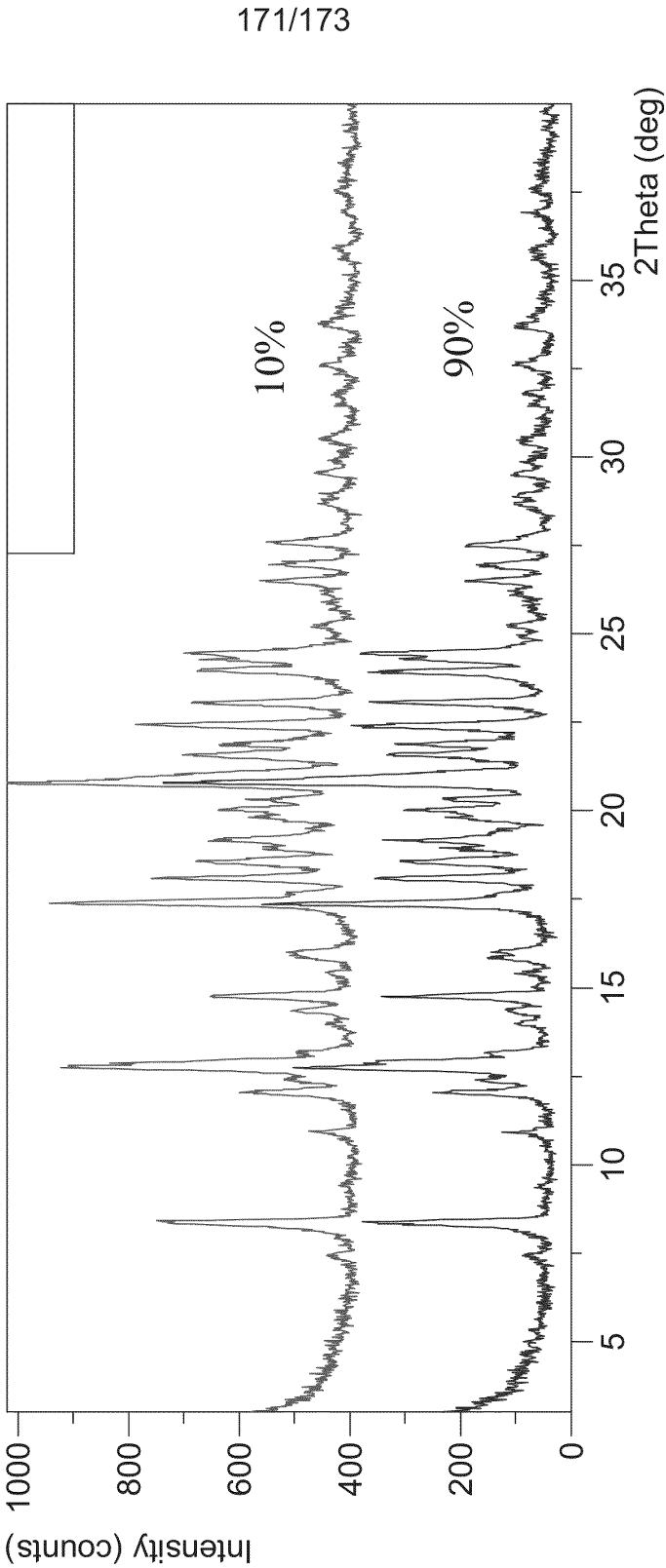


FIG. 171

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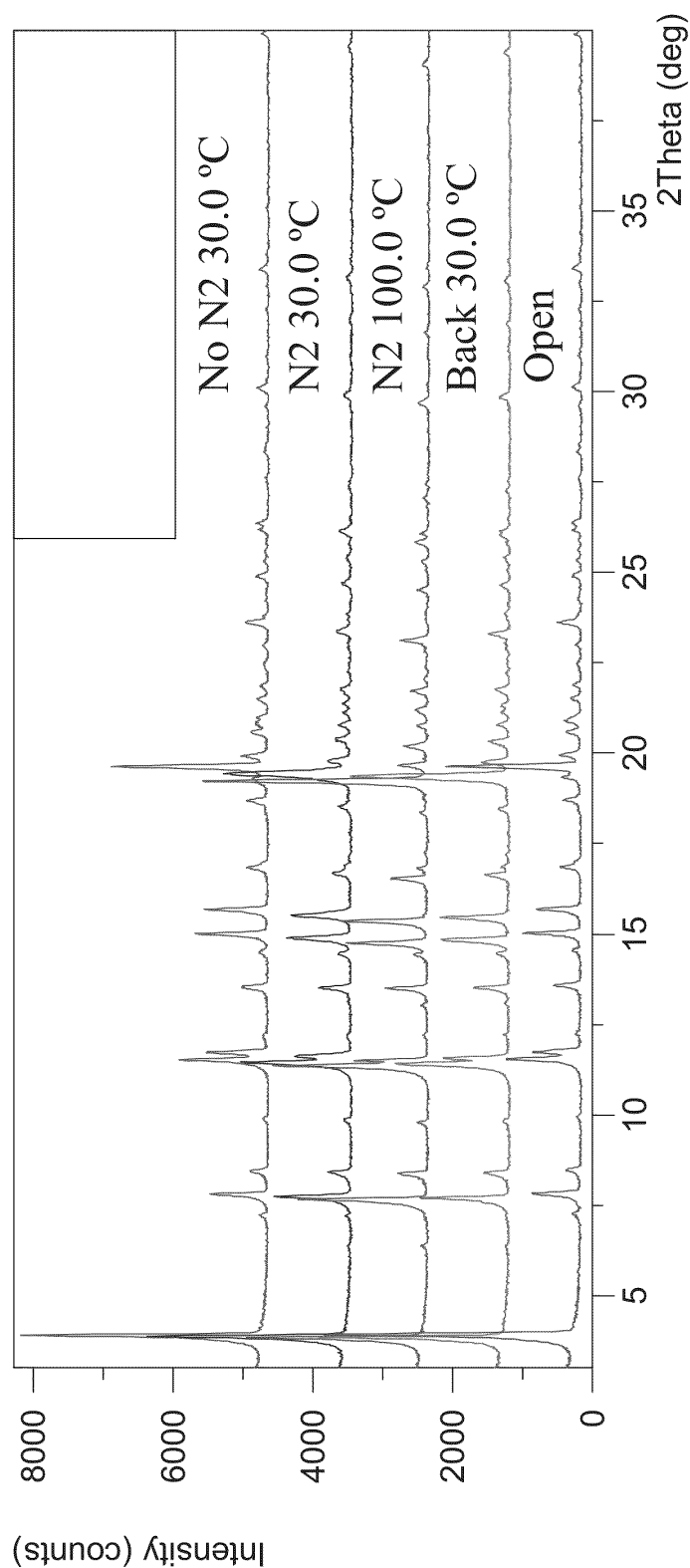


FIG. 172

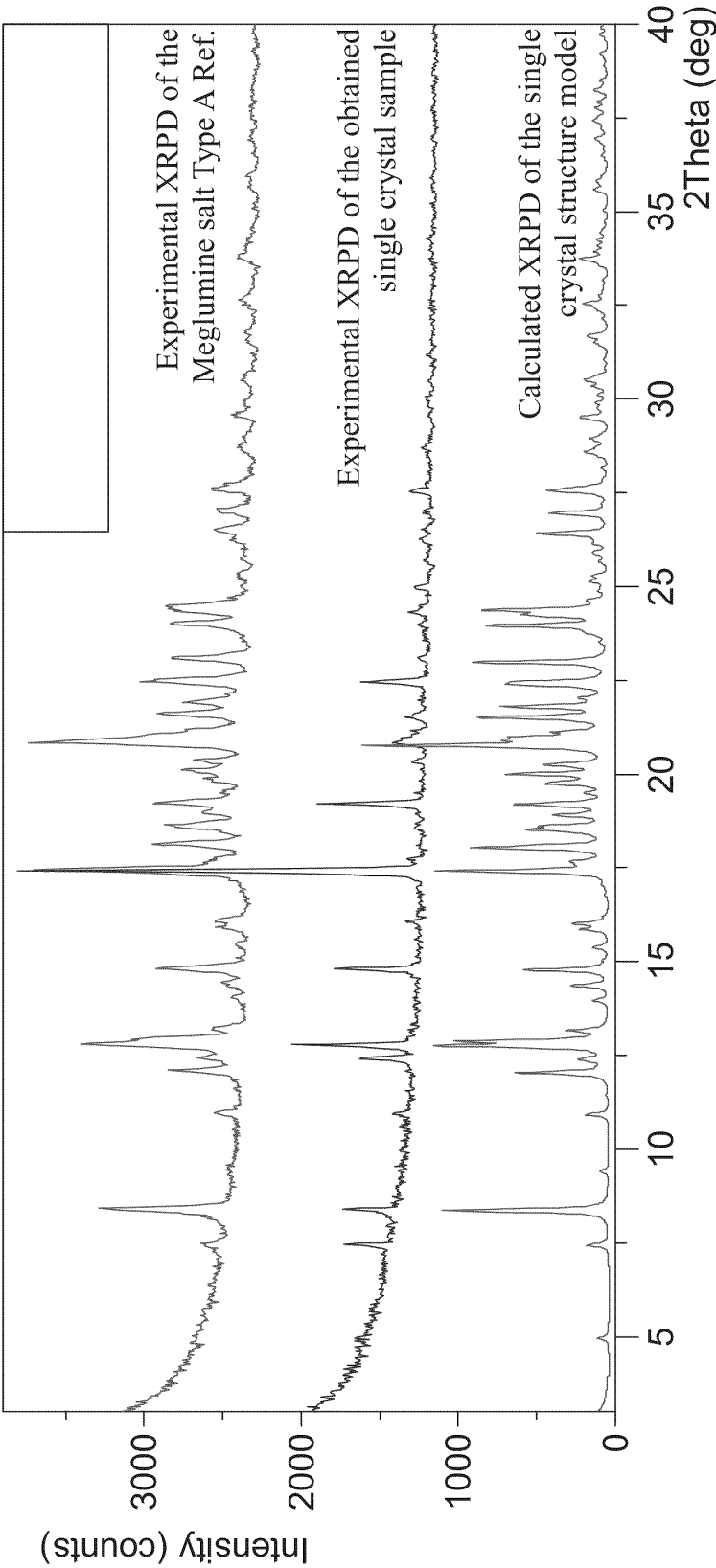


FIG. 173