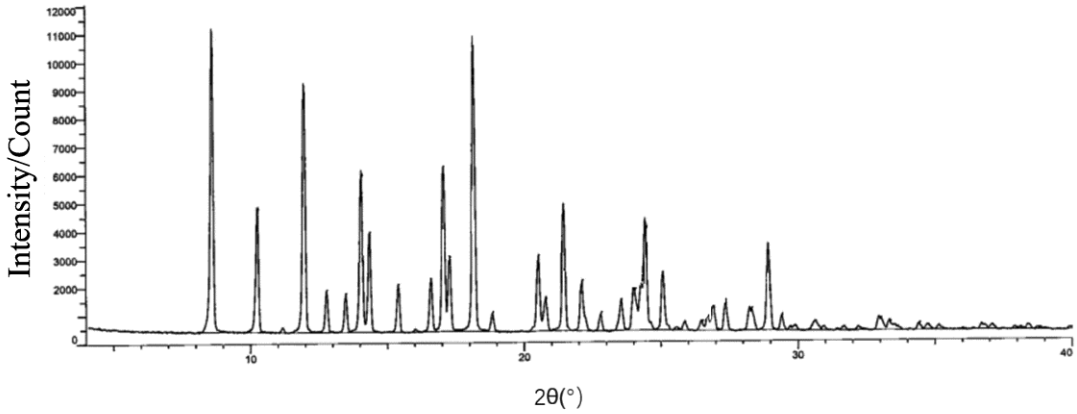
Intensity/Count
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
10
20
30
40
2θ(°)

FIG. 1

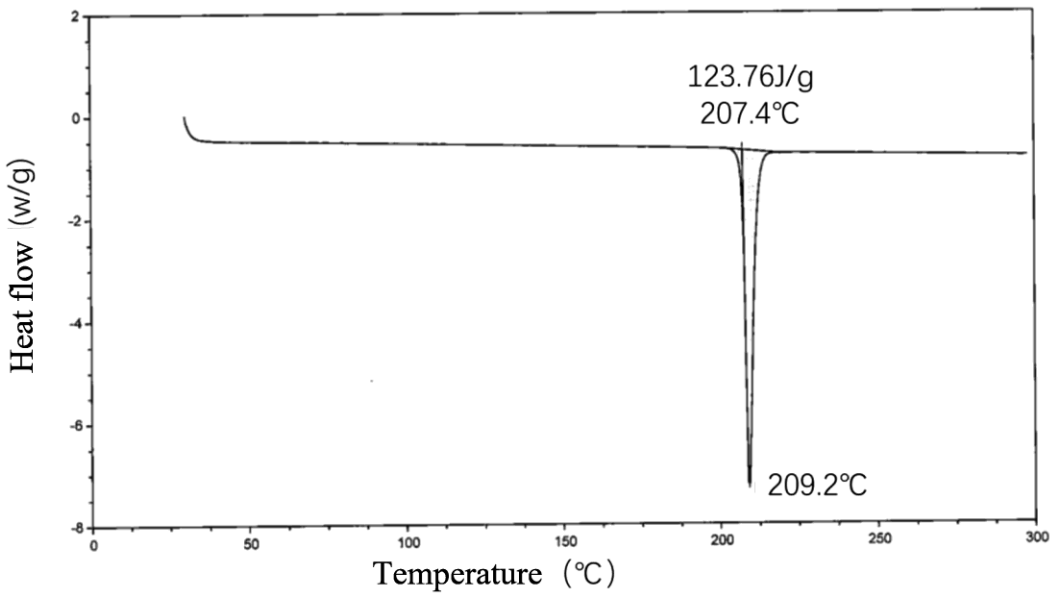
123.76J/g
207.4℃
209.2℃
Heat flow (w/g)
Temperature (℃)
2
0
-2
-4
-6
-8
0
50
100
150
200
250
300

FIG. 2

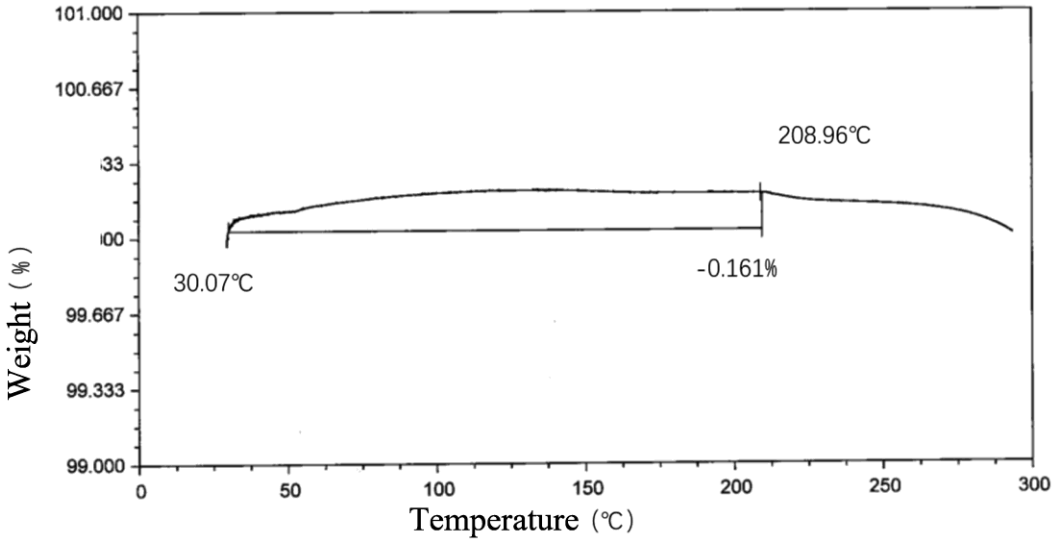
208.96℃
30.07℃
-0.161%
Weight (%)
Temperature (℃)
101.000
100.667
99.667
99.333
99.000
0
50
100
150
200
250
300

FIG. 3

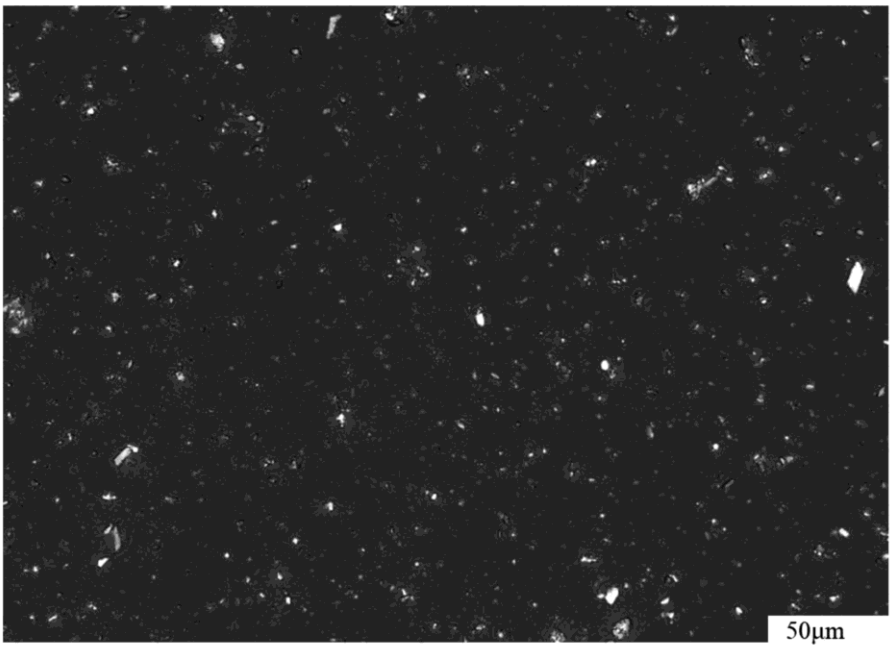
50µm

FIG. 4

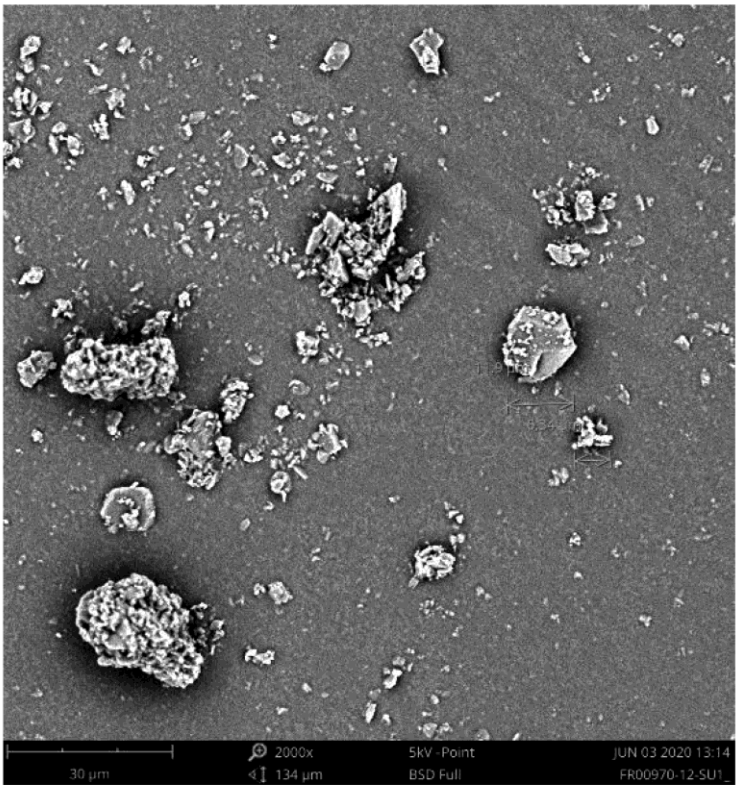
30 µm
2000x
134 µm
5kV - Point
BSD Full
JUN 03 2020 13:14
FR00970-12-SU1_

FIG. 5

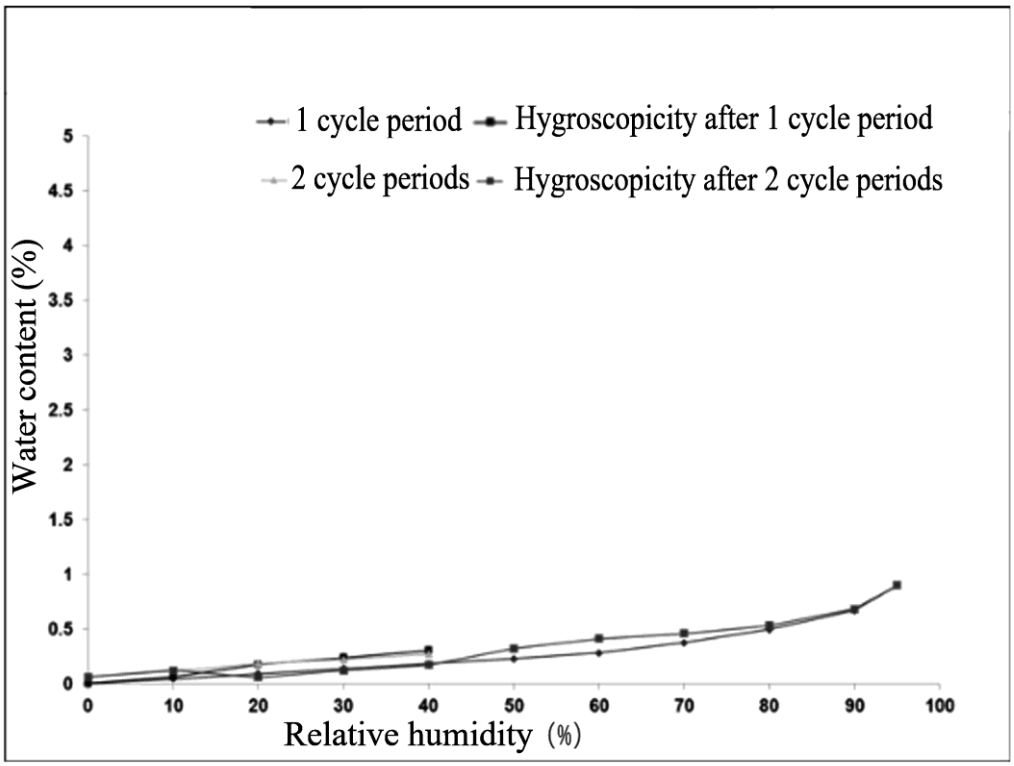
1 cycle period
Hygroscopicity after 1 cycle period
2 cycle periods
Hygroscopicity after 2 cycle periods
Water content (%)
Relative humidity (%)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0
10
20
30
40
50
60
70
80
90
100

FIG. 6A

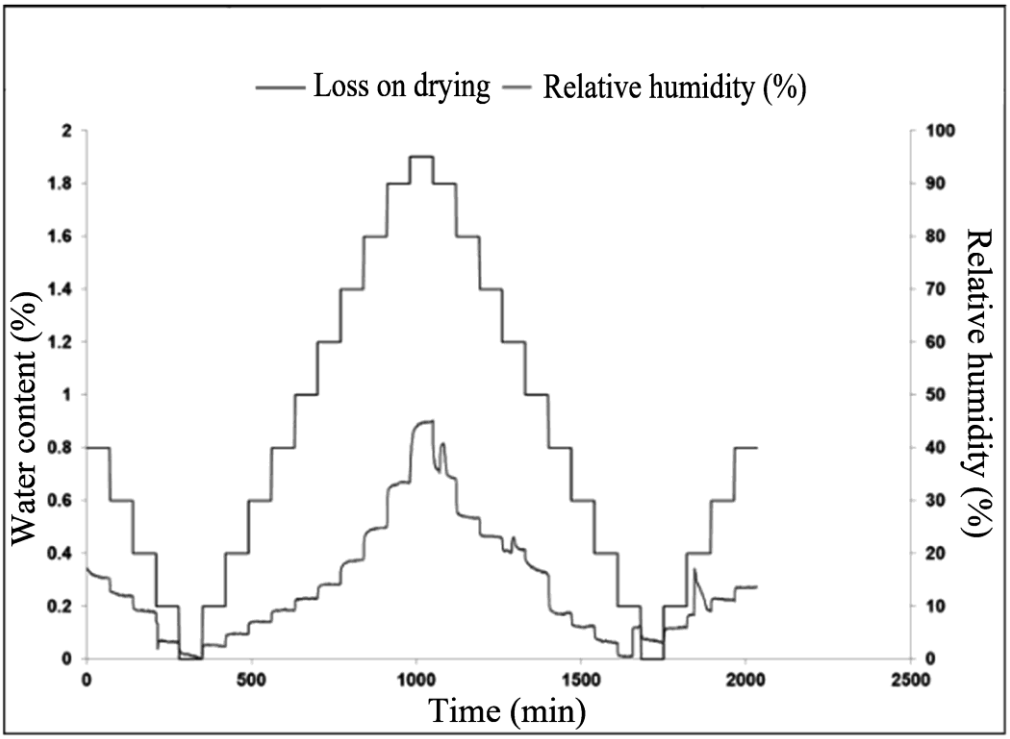
Loss on drying
Relative humidity (%)
Water content (%)
Relative humidity (%)
Time (min)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
10
20
30
40
50
60
70
80
90
100
0
500
1000
1500
2000
2500

FIG. 6B

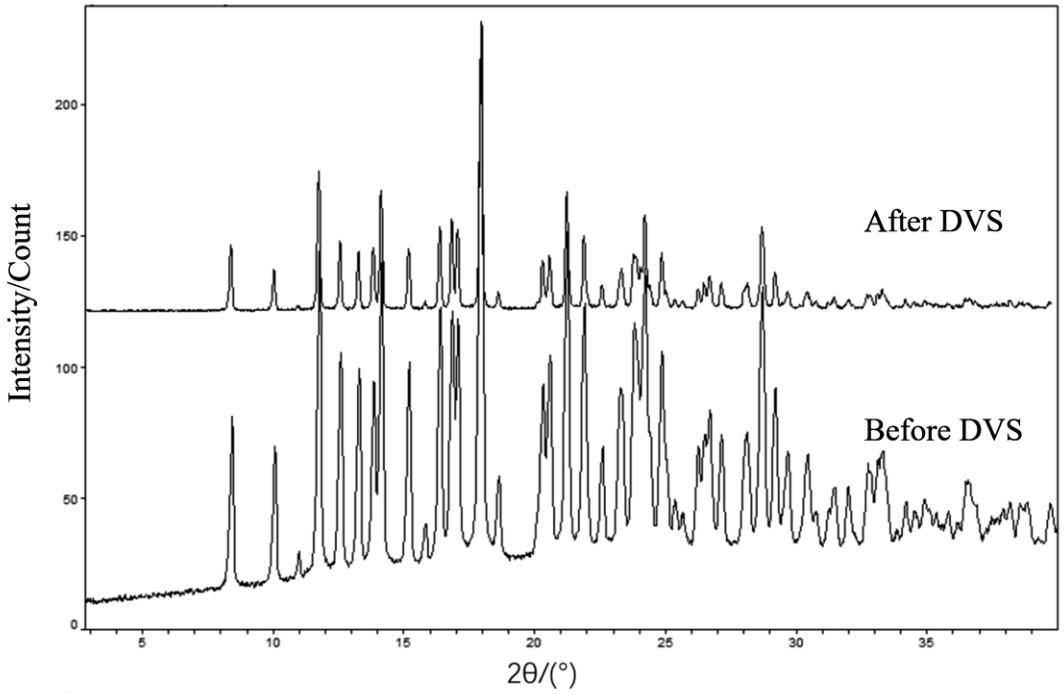

FIG. 7

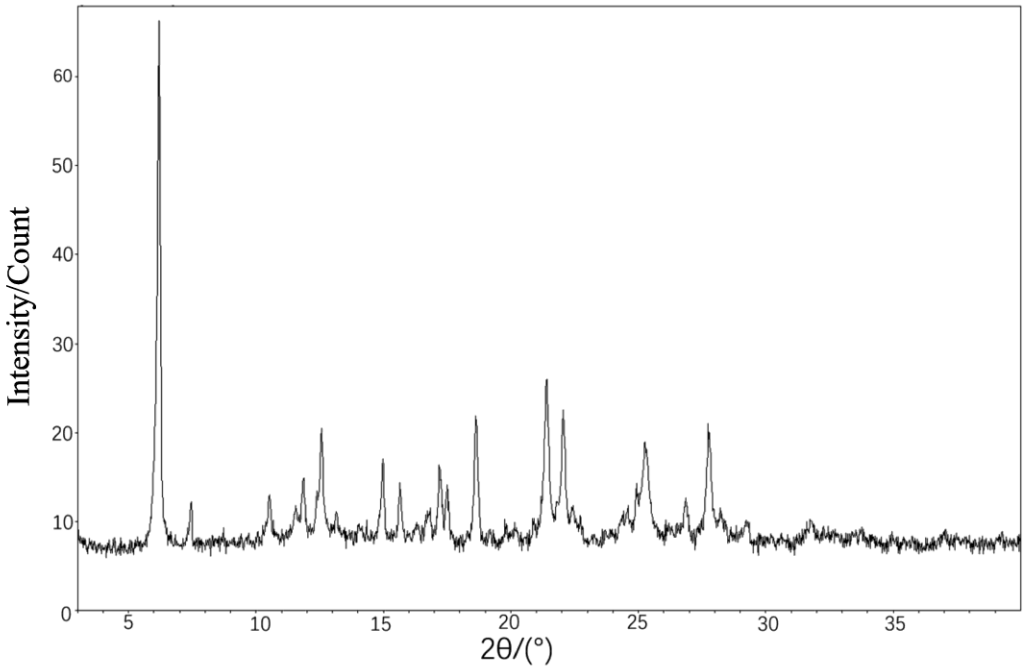

FIG. 8

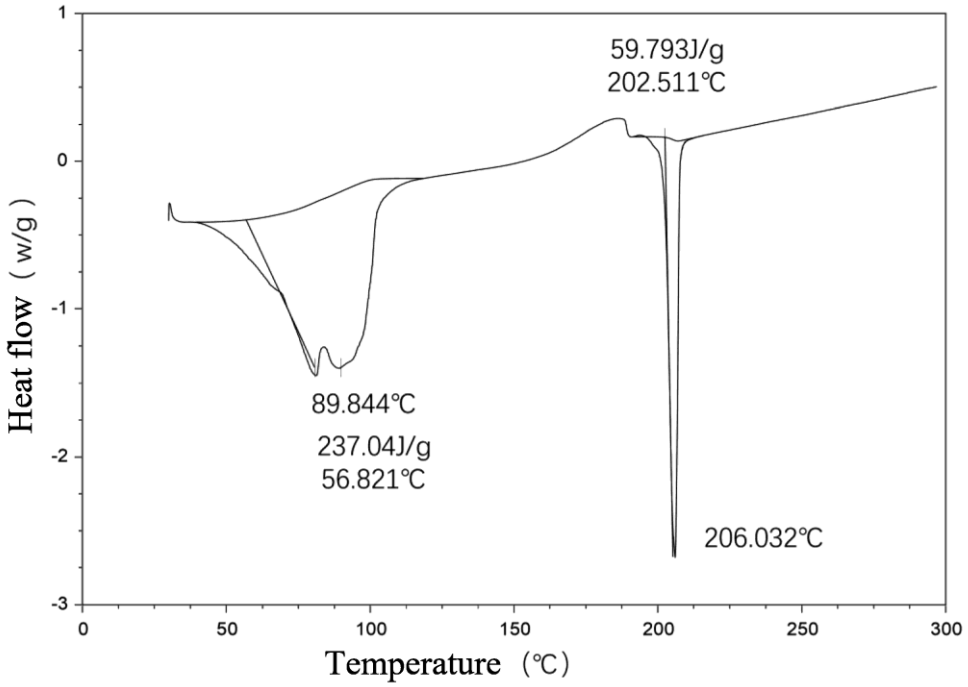
59.793J/g
202.511℃
89.844℃
237.04J/g
56.821℃
206.032℃
Heat flow（w/g）
Temperature（℃）
1
0
-1
-2
-3
0
50
100
150
200
250
300

FIG. 9

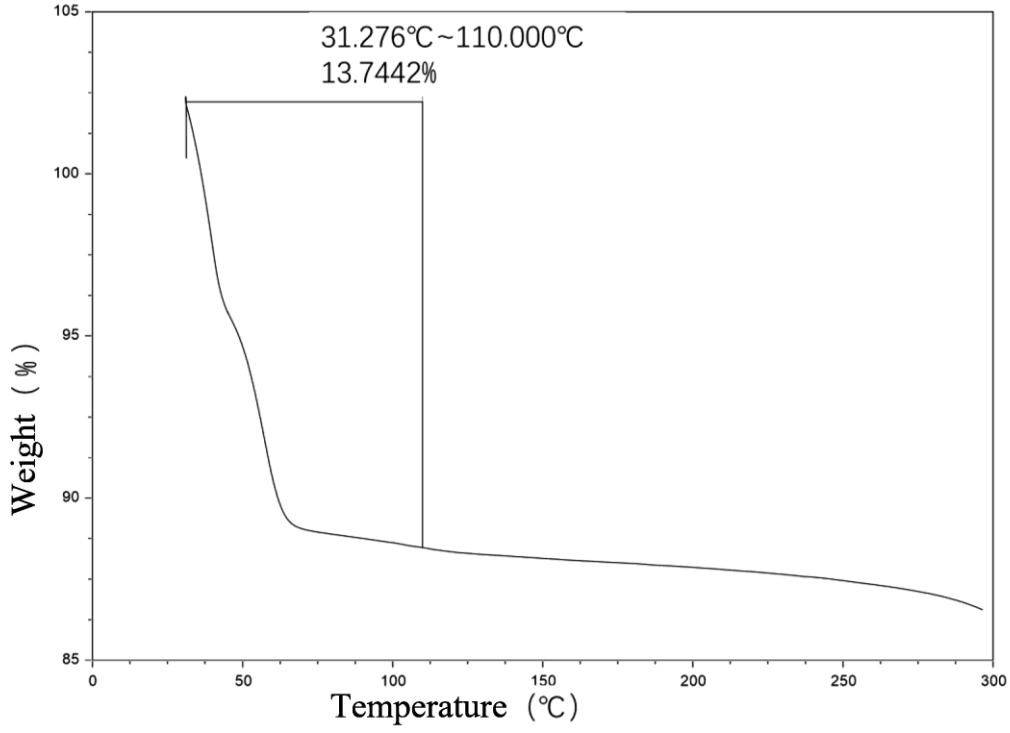
31.276℃~110.000℃
13.7442%
Weight（%）
Temperature（℃）
105
100
95
90
85
0
50
100
150
200
250
300

FIG. 10

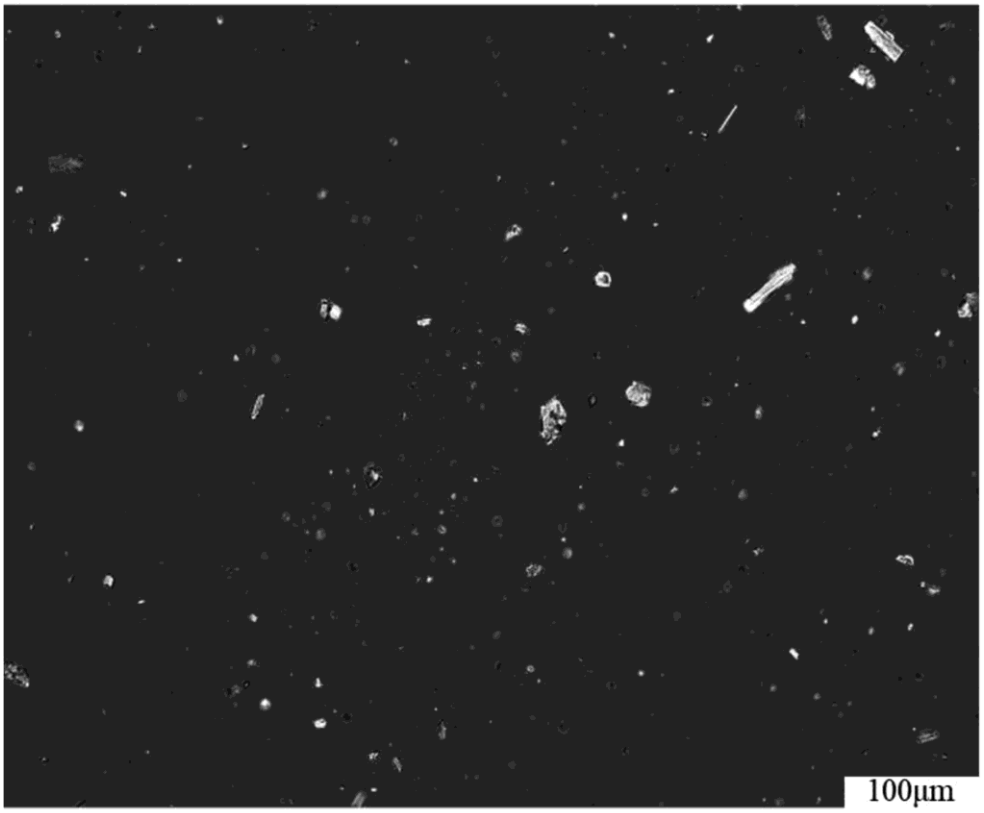
100μm

FIG. 11

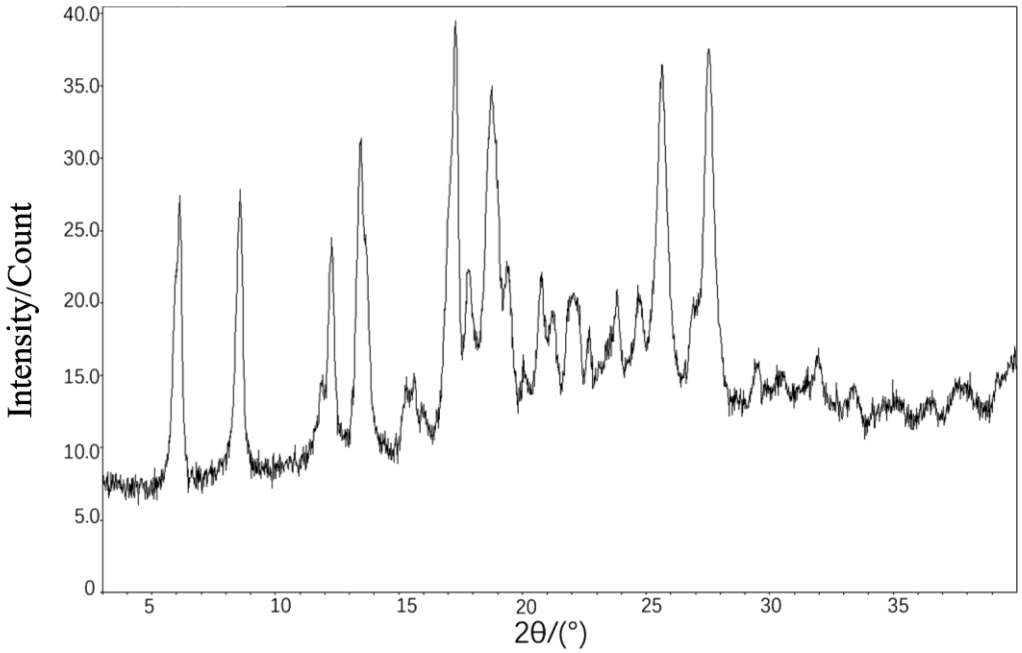
Intensity/Count
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0
5
10
15
20
25
30
35
2θ/(°)

FIG. 12

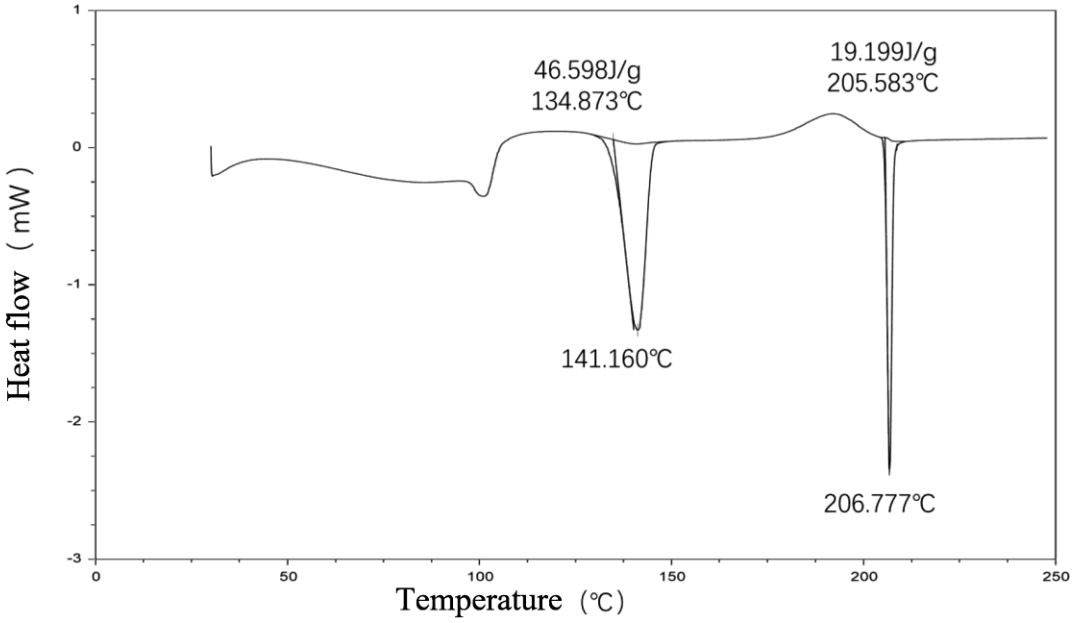
46.598J/g
134.873℃
19.199J/g
205.583℃
141.160℃
206.777℃
Heat flow（mW）
Temperature（℃）
1
0
-1
-2
-3
0
50
100
150
200
250

FIG. 13

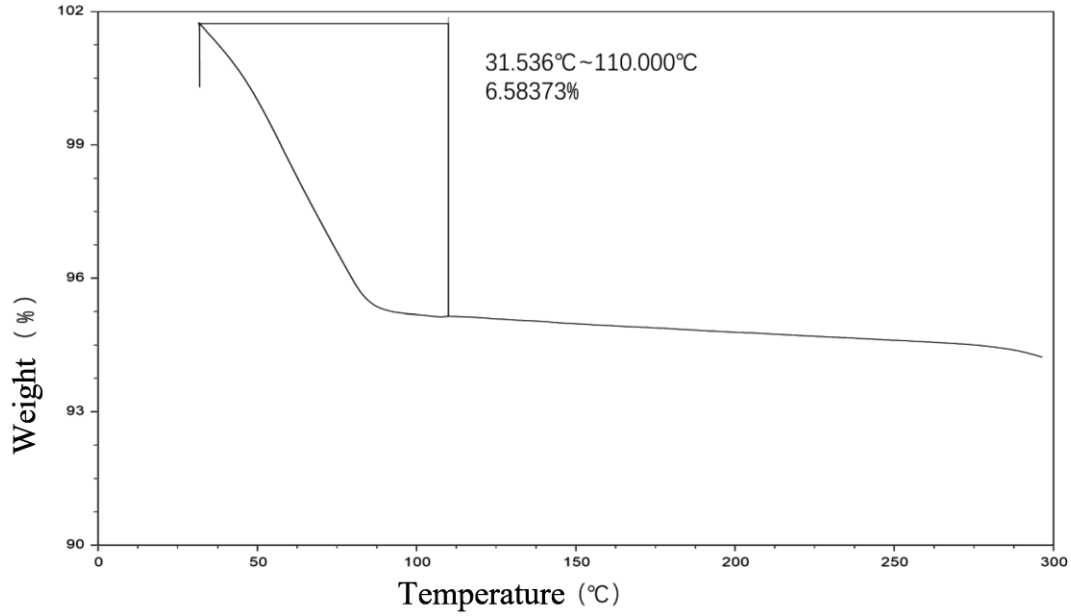
31.536℃~110.000℃
6.58373%
Weight（%）
Temperature（℃）
102
99
96
93
90
0
50
100
150
200
250
300

FIG. 14

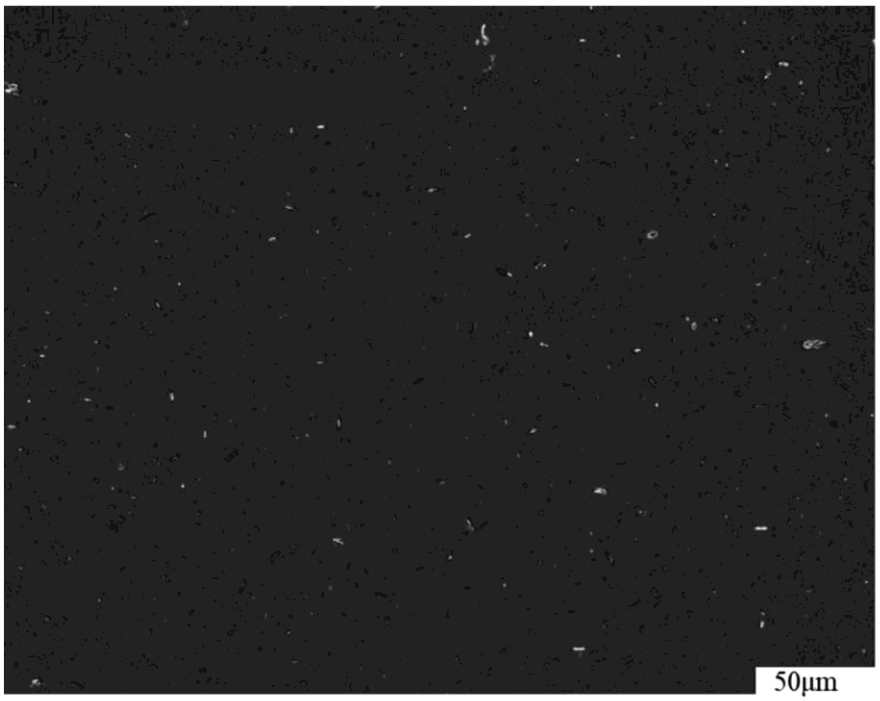

FIG. 15

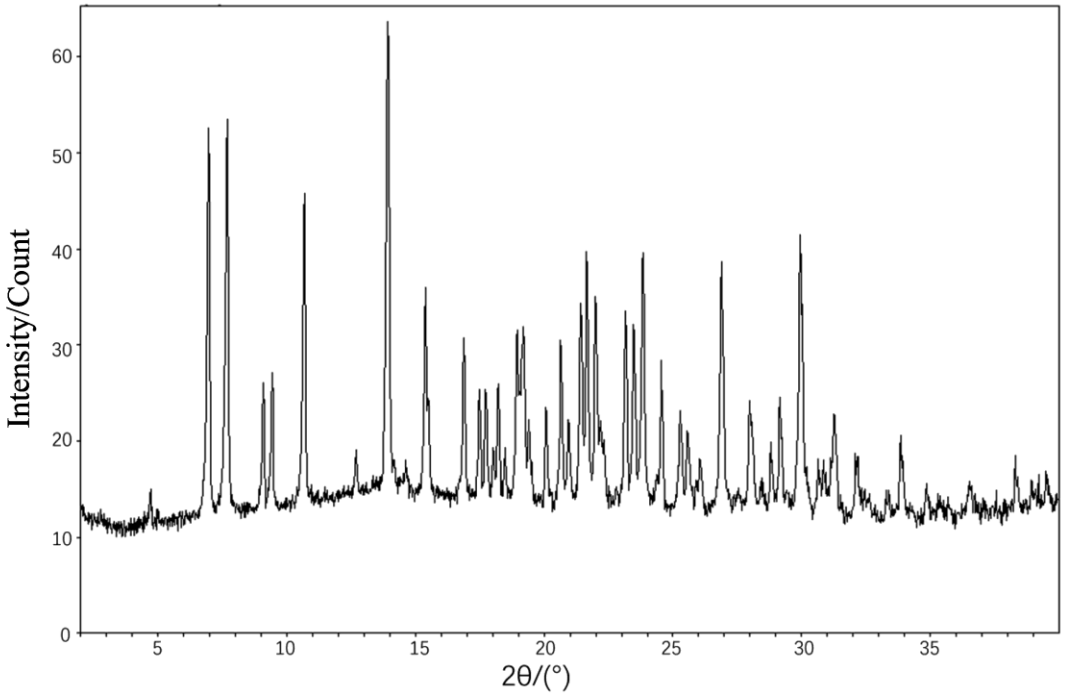

FIG. 16

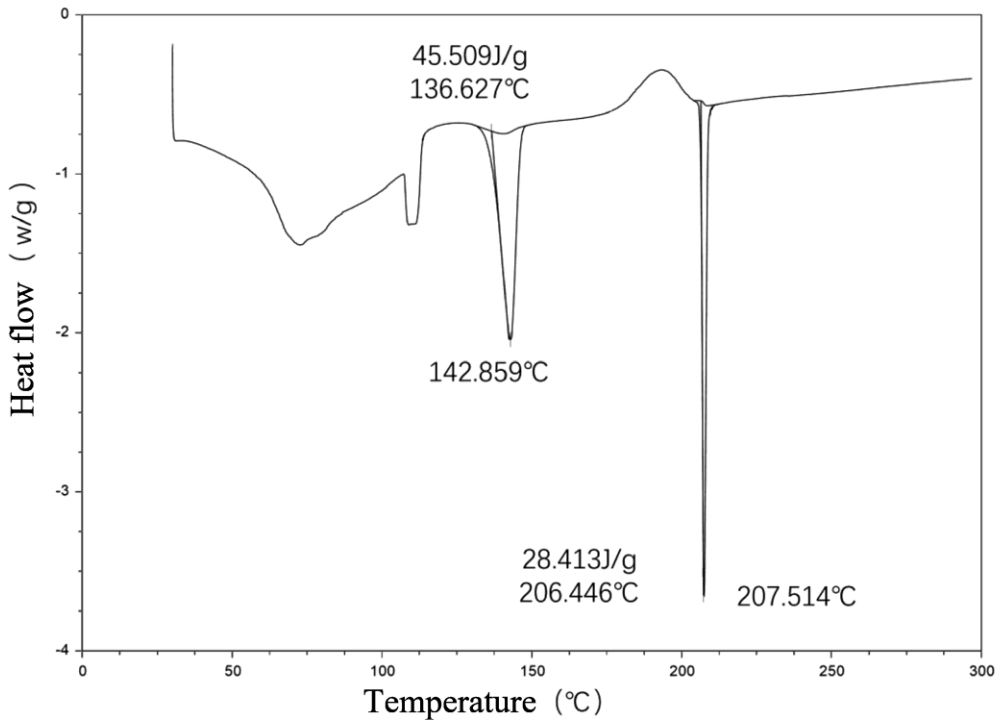
45.509J/g
136.627℃
142.859℃
28.413J/g
206.446℃
207.514℃
Heat flow（w/g）
Temperature（℃）
0
-1
-2
-3
-4
0
50
100
150
200
250
300

FIG. 17

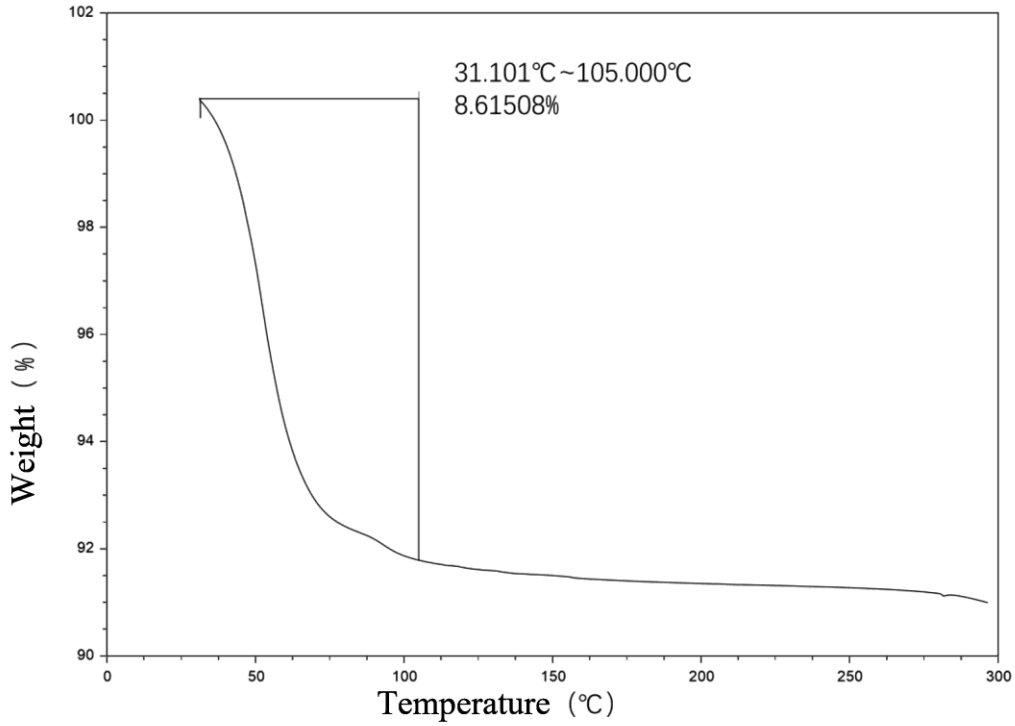
31.101℃~105.000℃
8.61508%
Weight（%）
Temperature（℃）
102
100
98
96
94
92
90
0
50
100
150
200
250
300

FIG. 18

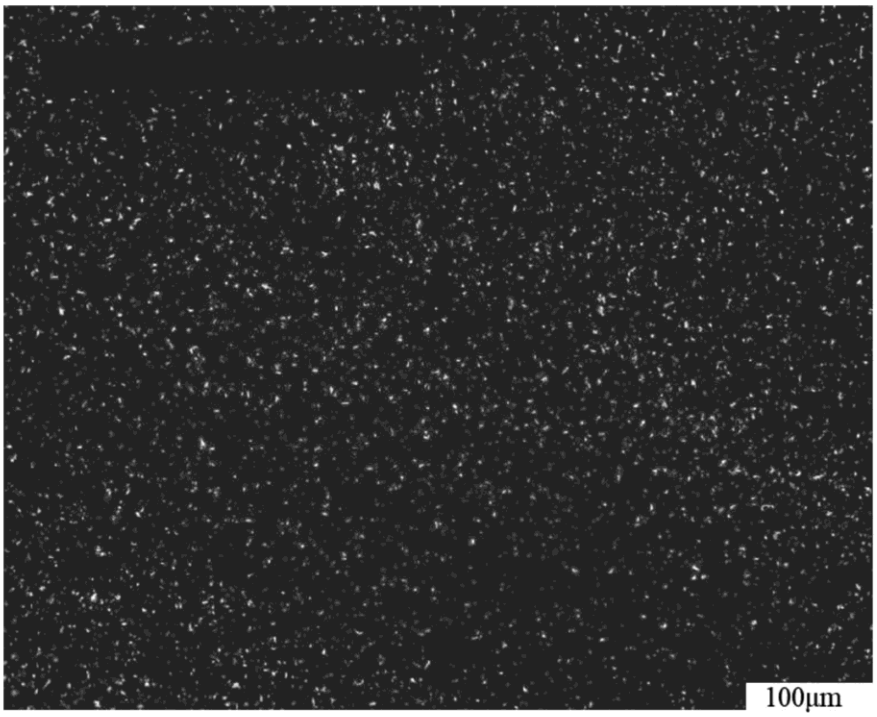

FIG. 19

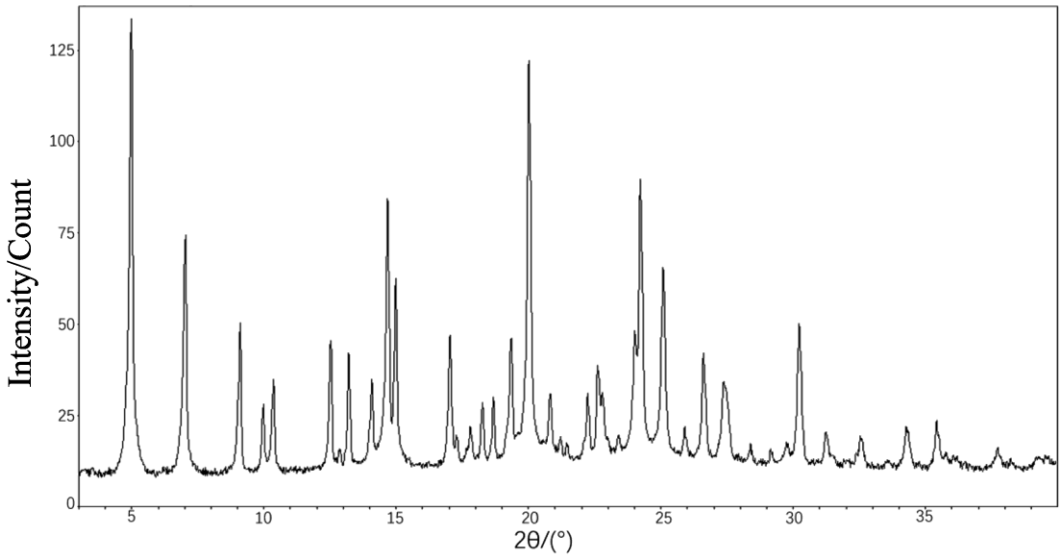

FIG. 20

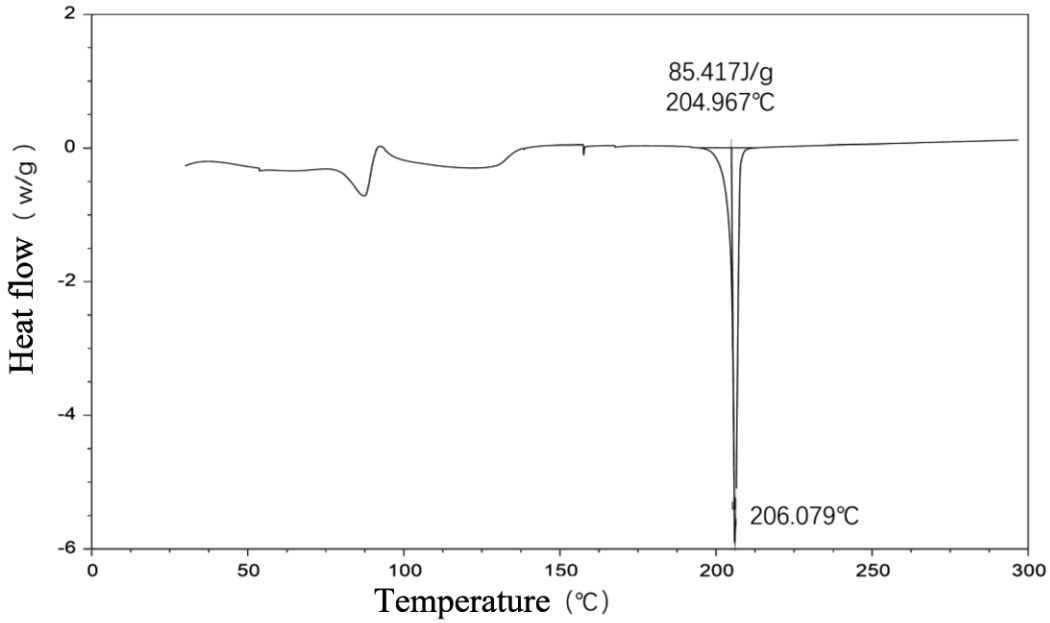
85.417J/g
204.967℃
206.079℃
Heat flow（w/g）
Temperature（℃）
2
0
-2
-4
-6
0
50
100
150
200
250
300

FIG. 21

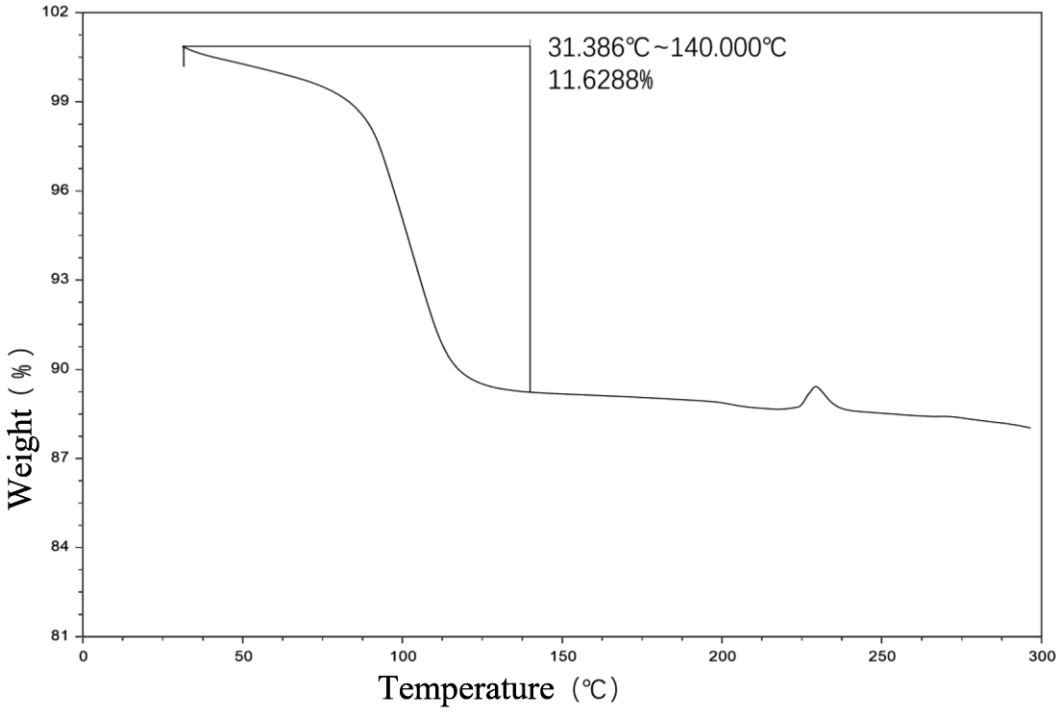
31.386℃~140.000℃
11.6288%
Weight（%）
Temperature（℃）
102
99
96
93
90
87
84
81
0
50
100
150
200
250
300

FIG. 22

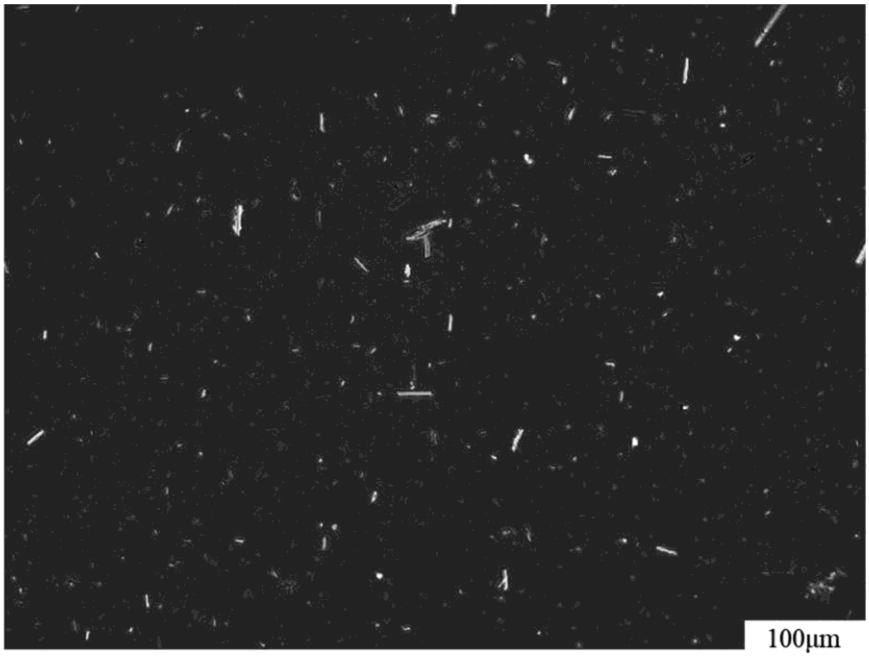

FIG. 23

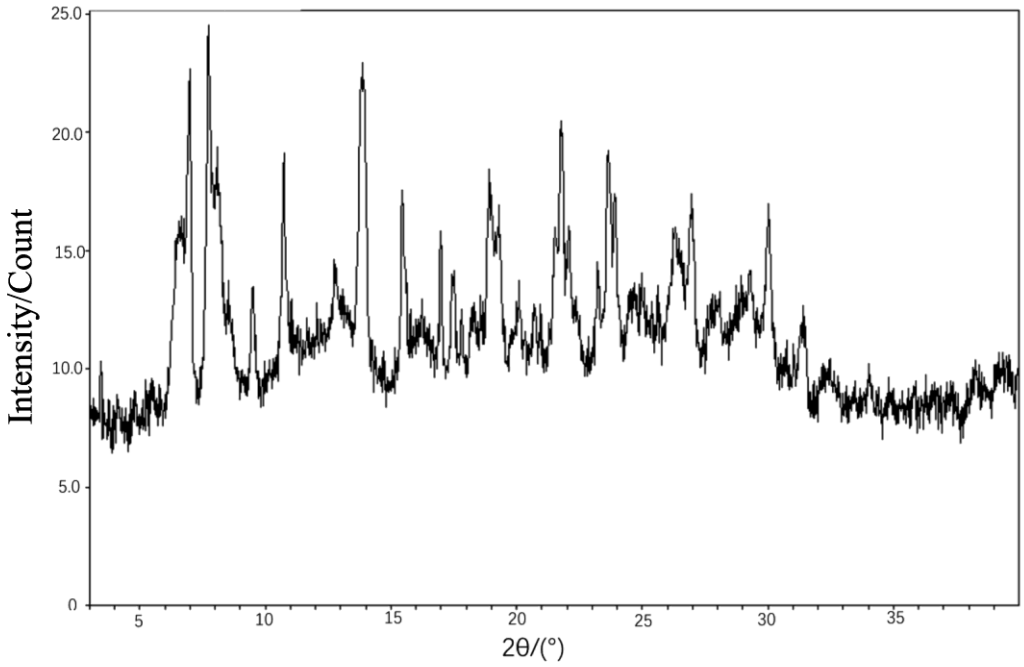

FIG. 24

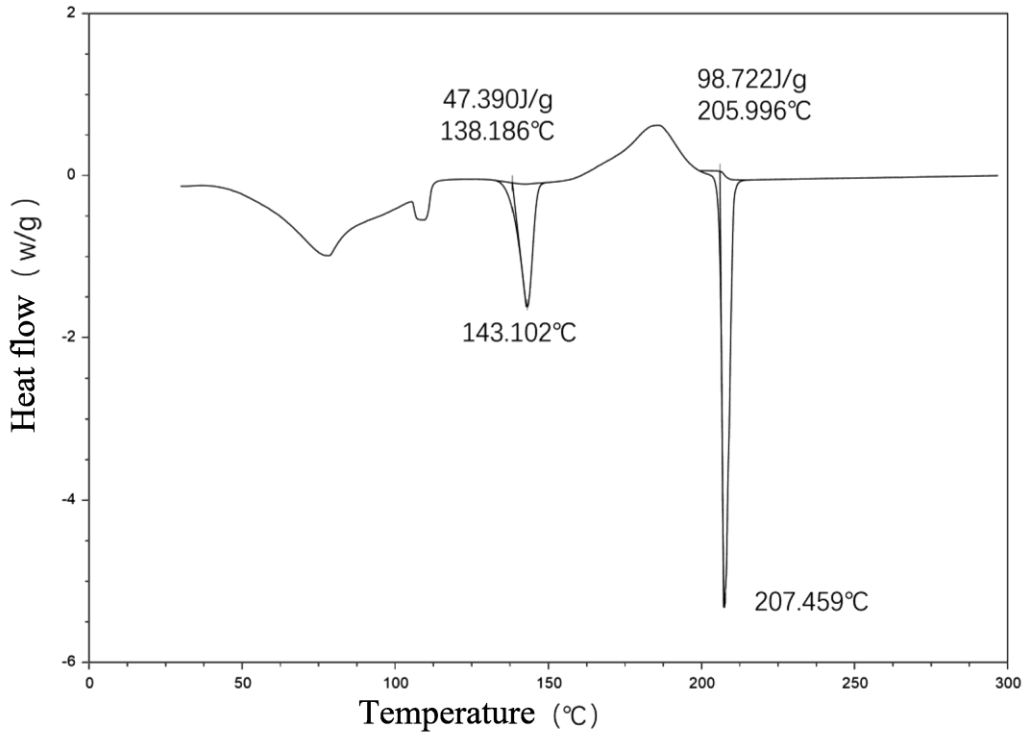
47.390J/g
138.186℃
98.722J/g
205.996℃
143.102℃
207.459℃
Heat flow（w/g）
Temperature（℃）
2
0
-2
-4
-6
0
50
100
150
200
250
300

FIG. 25

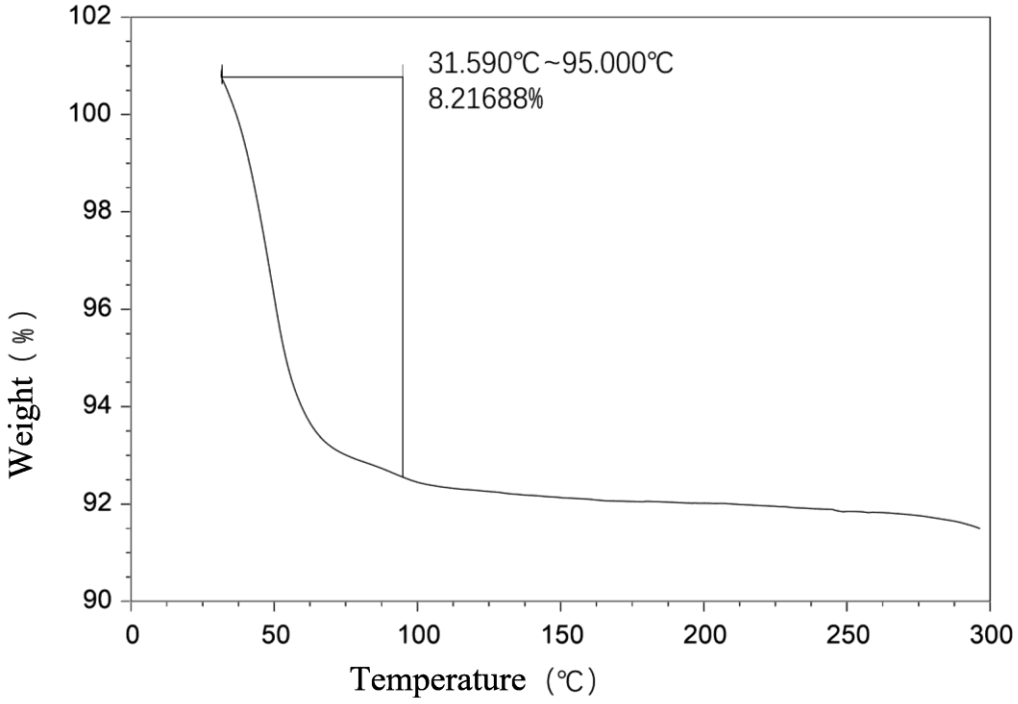
31.590℃~95.000℃
8.21688%
Weight（%）
Temperature（℃）
102
100
98
96
94
92
90
0
50
100
150
200
250
300

FIG. 26

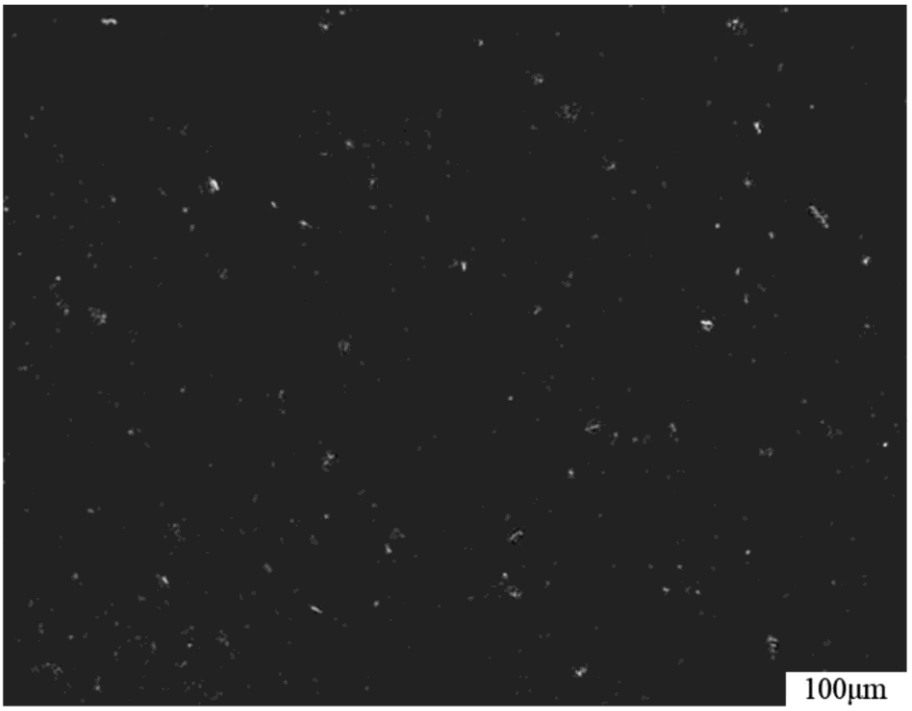
100μm

FIG. 27

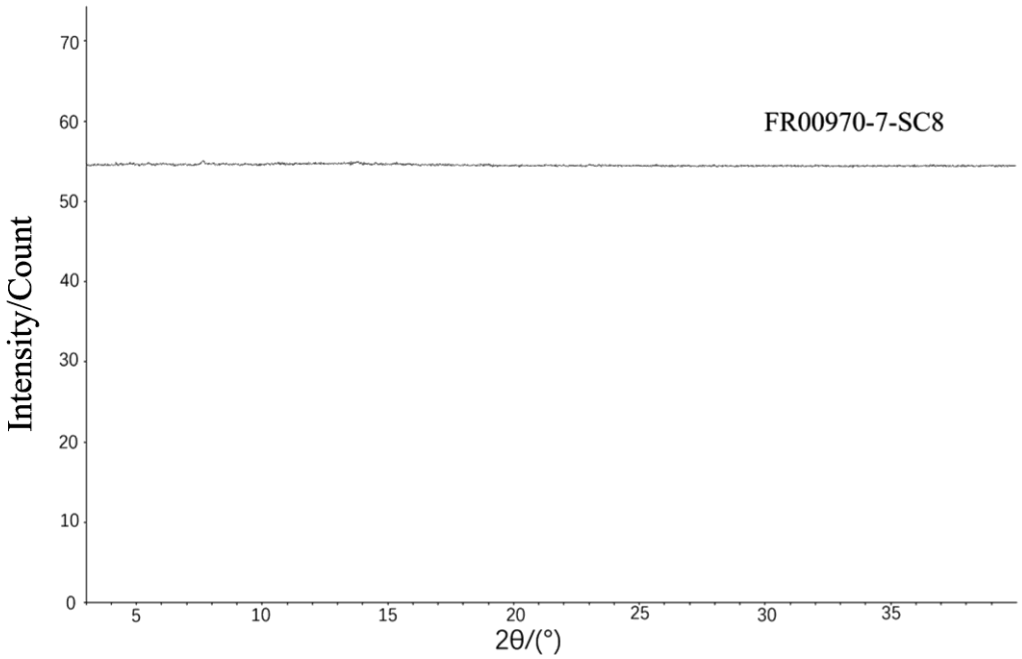
FR00970-7-SC8
Intensity/Count
2θ/(°)
0
10
20
30
40
50
60
70
5
10
15
20
25
30
35

FIG. 28

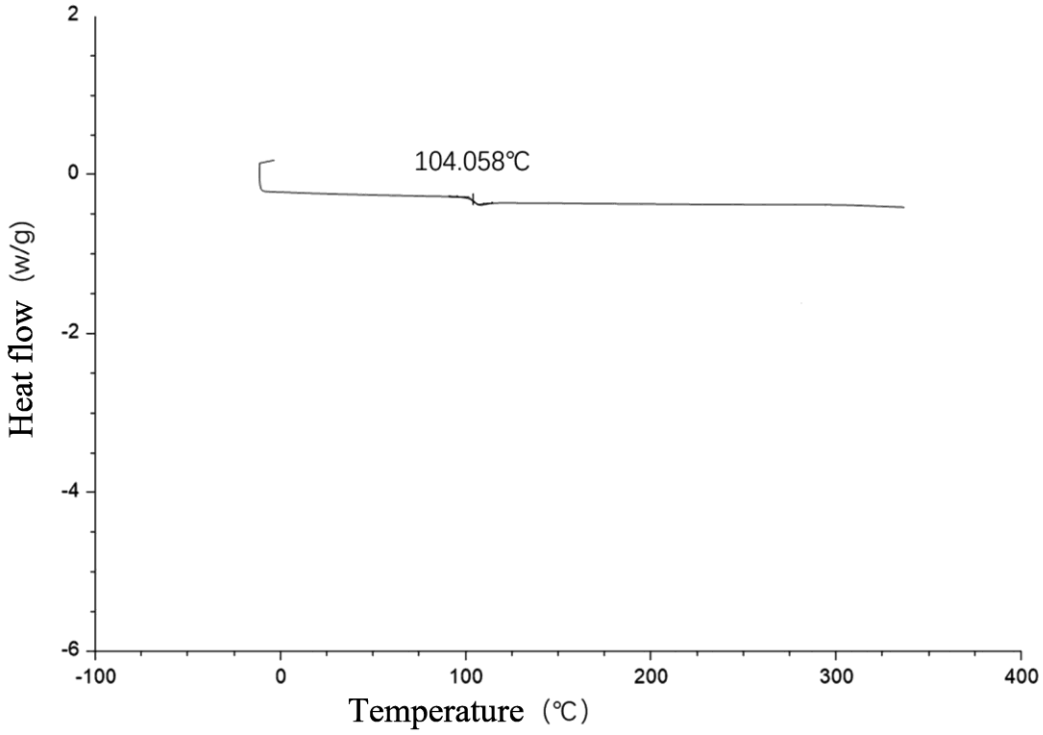

FIG. 29