Figure 1

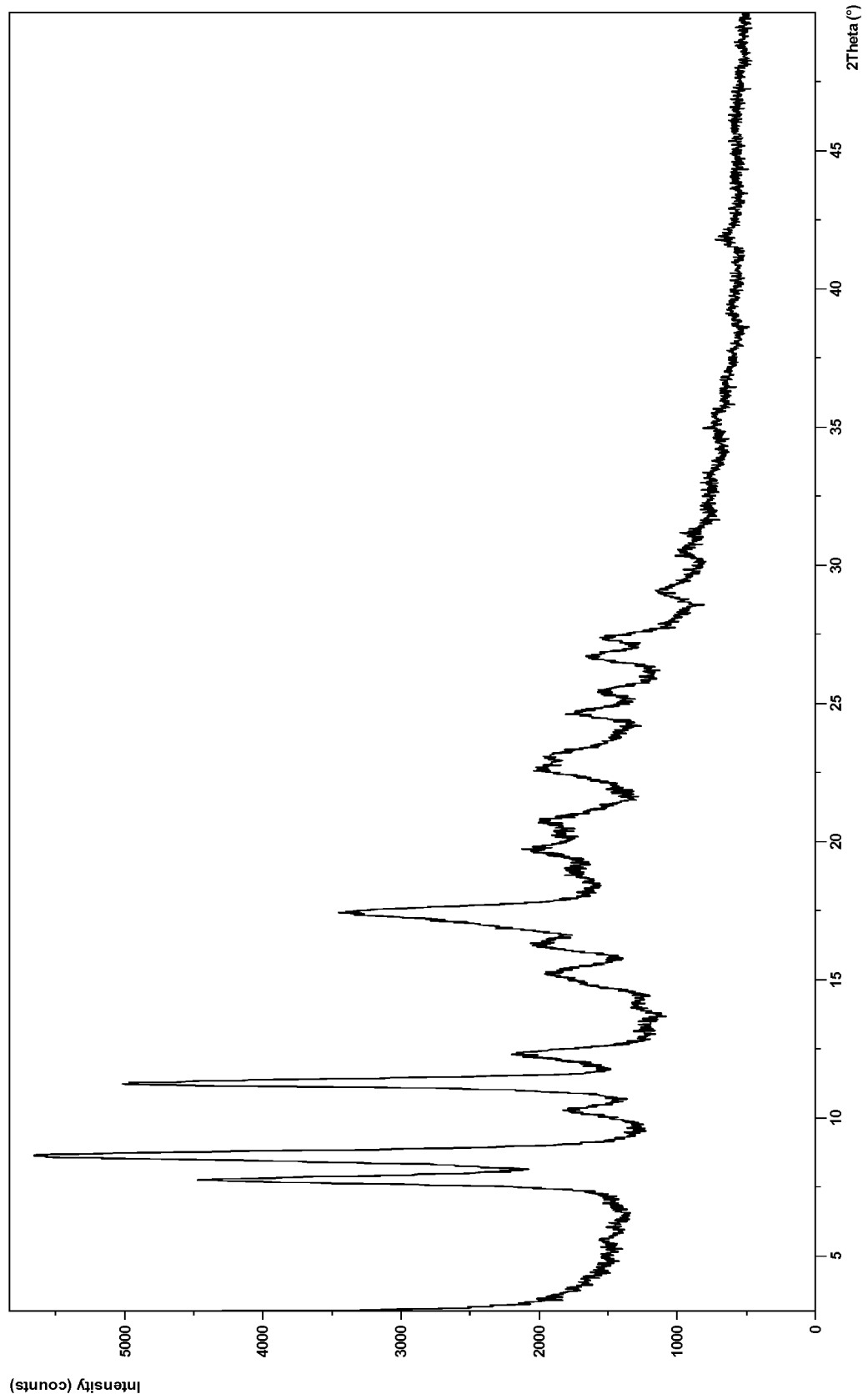

Intensity (counts)
5000
4000
3000
2000
1000
0
2Theta (°)
5
10
15
20
25
30
35
40
45

Figure 2

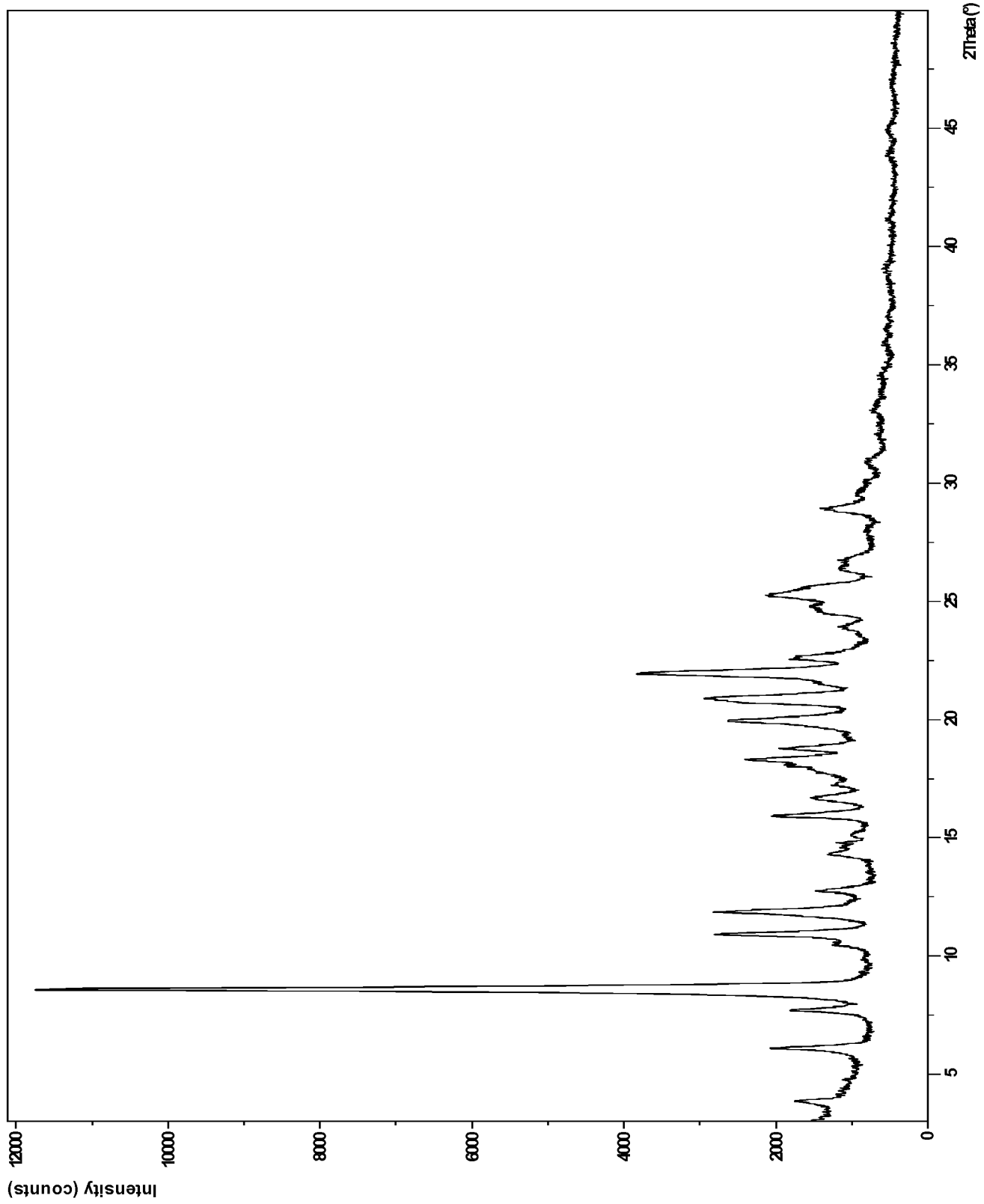

Intensity (counts)
12000
10000
8000
6000
4000
2000
0
2Theta(°)
5
10
15
20
25
30
35
40
45

Figure 3

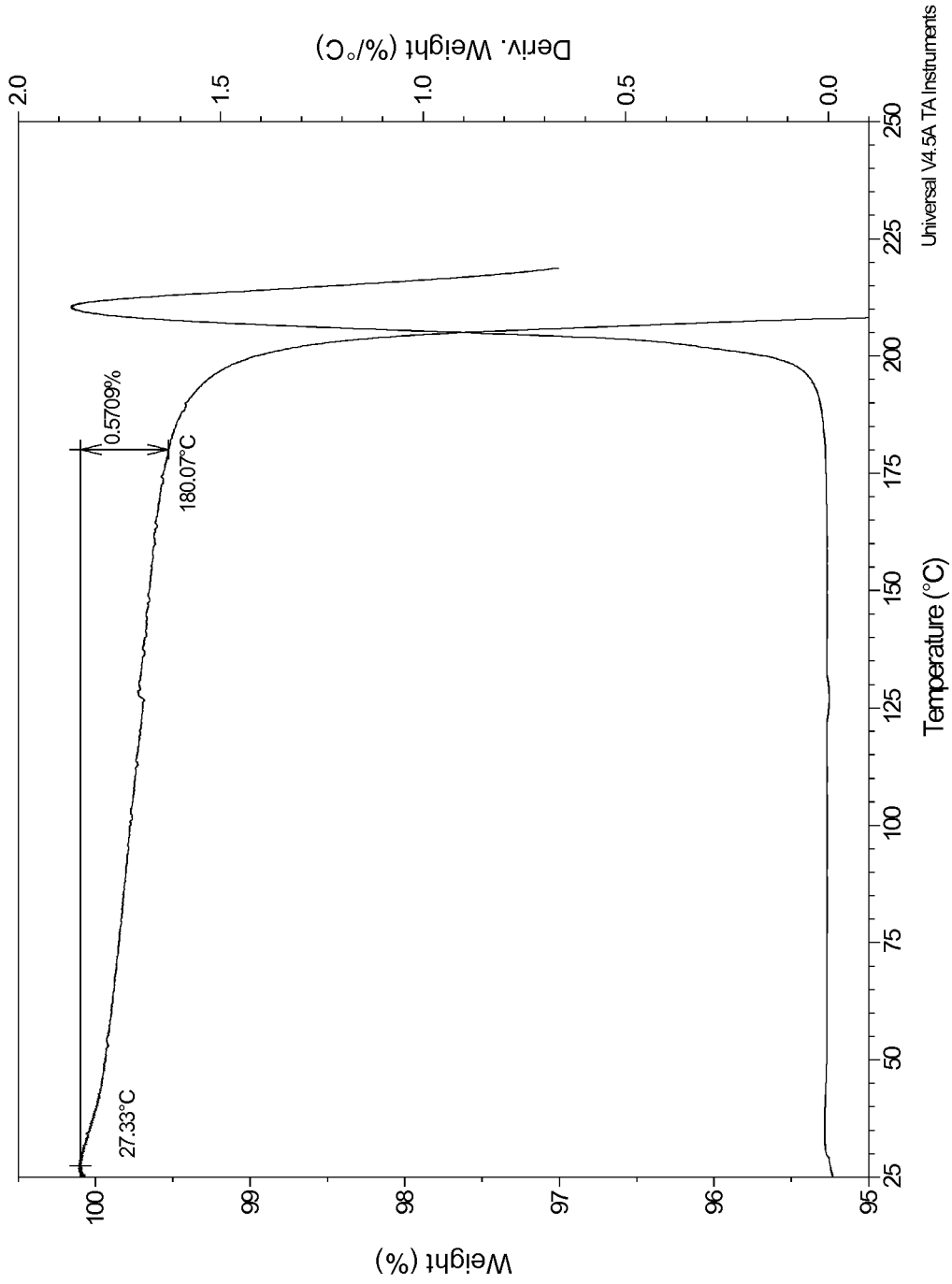

Deriv. Weight (%/°C)
2.0
1.5
1.0
0.5
0.0
Universal V4.5A TA Instruments
0.5709%
180.07°C
27.33°C
Weight (%)
100
99
98
97
96
95
Temperature (°C)
25
50
75
100
125
150
175
200
225
250

Figure 4

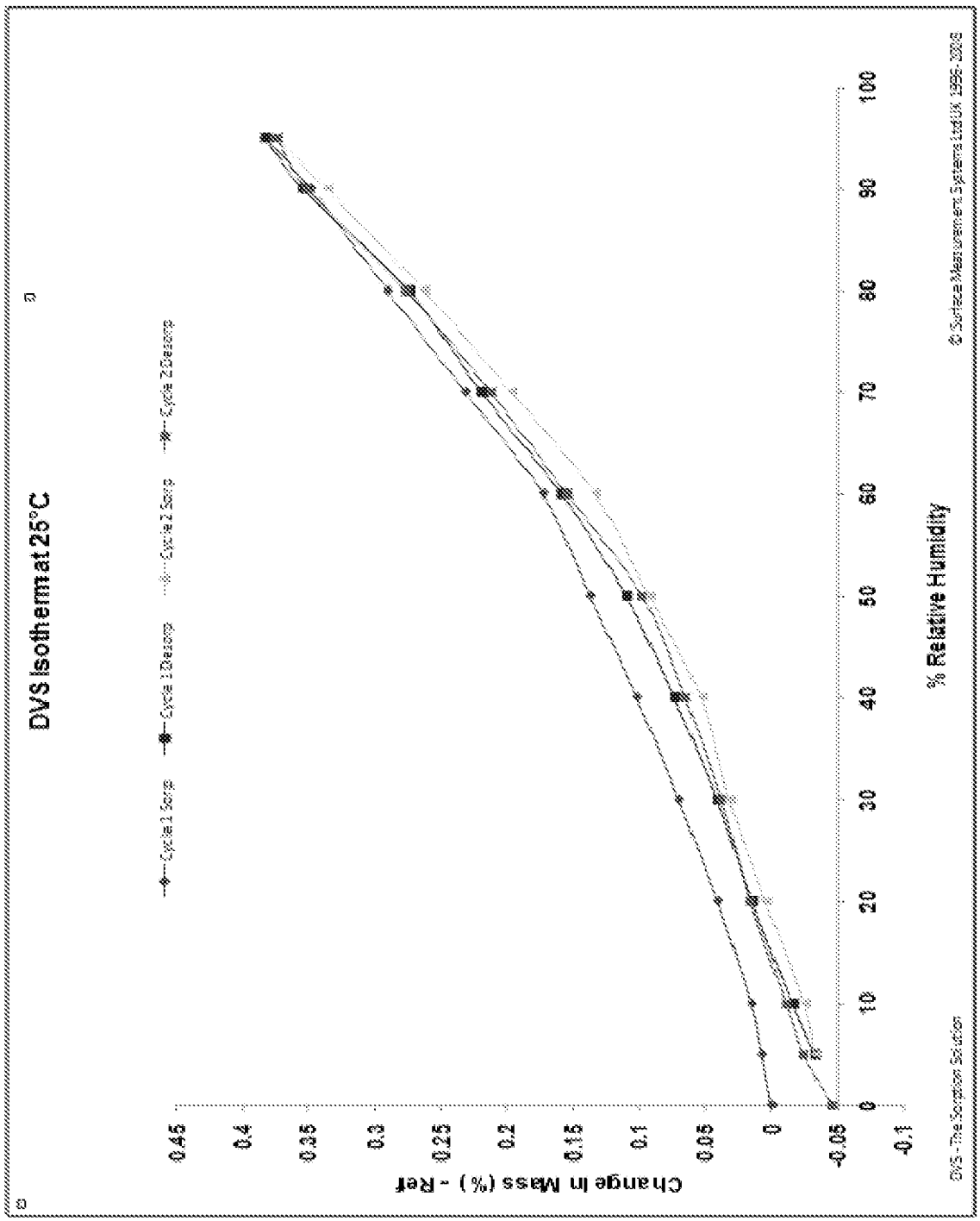

DVS Isotherm at 25°C
Cycle 1 Sorp
Cycle 1 Desorp
Cycle 2 Sorp
Cycle 2 Desorp
Change In Mass (%) - Ref
% Relative Humidity
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
0
10
20
30
40
50
60
70
80
90
100
DVS - The Sorption Solution
© Surface Measurement Systems Ltd UK 1998-2008

Figure 5

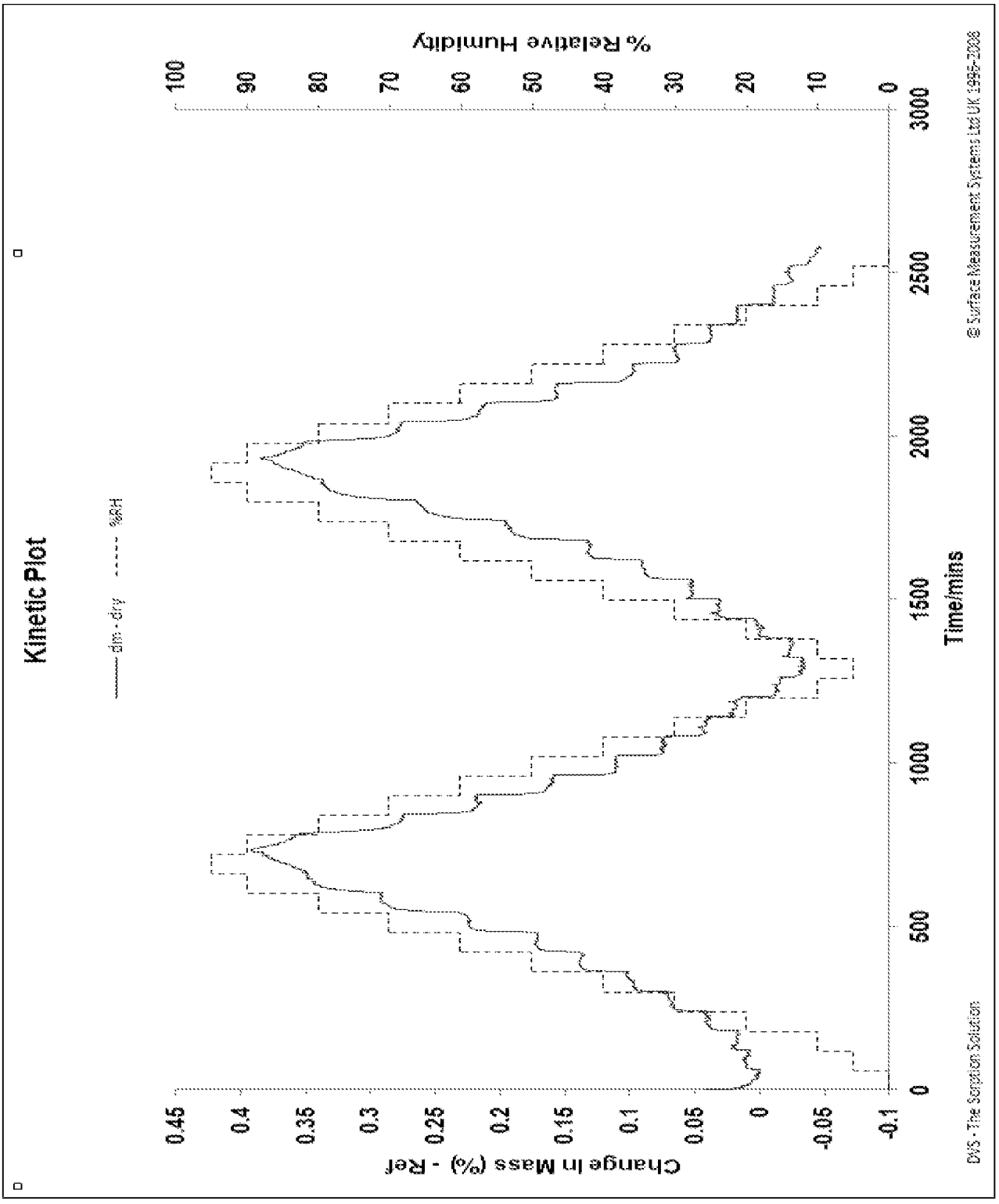

Kinetic Plot
dm - dry
%RH
% Relative Humidity
Change in Mass (%) - Ref
Time/mins
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
100
90
80
70
60
50
40
30
20
10
0
0
500
1000
1500
2000
2500
3000
DVS - The Sorption Solution
© Surface Measurement Systems Ltd UK 1995-2008

Figure 6

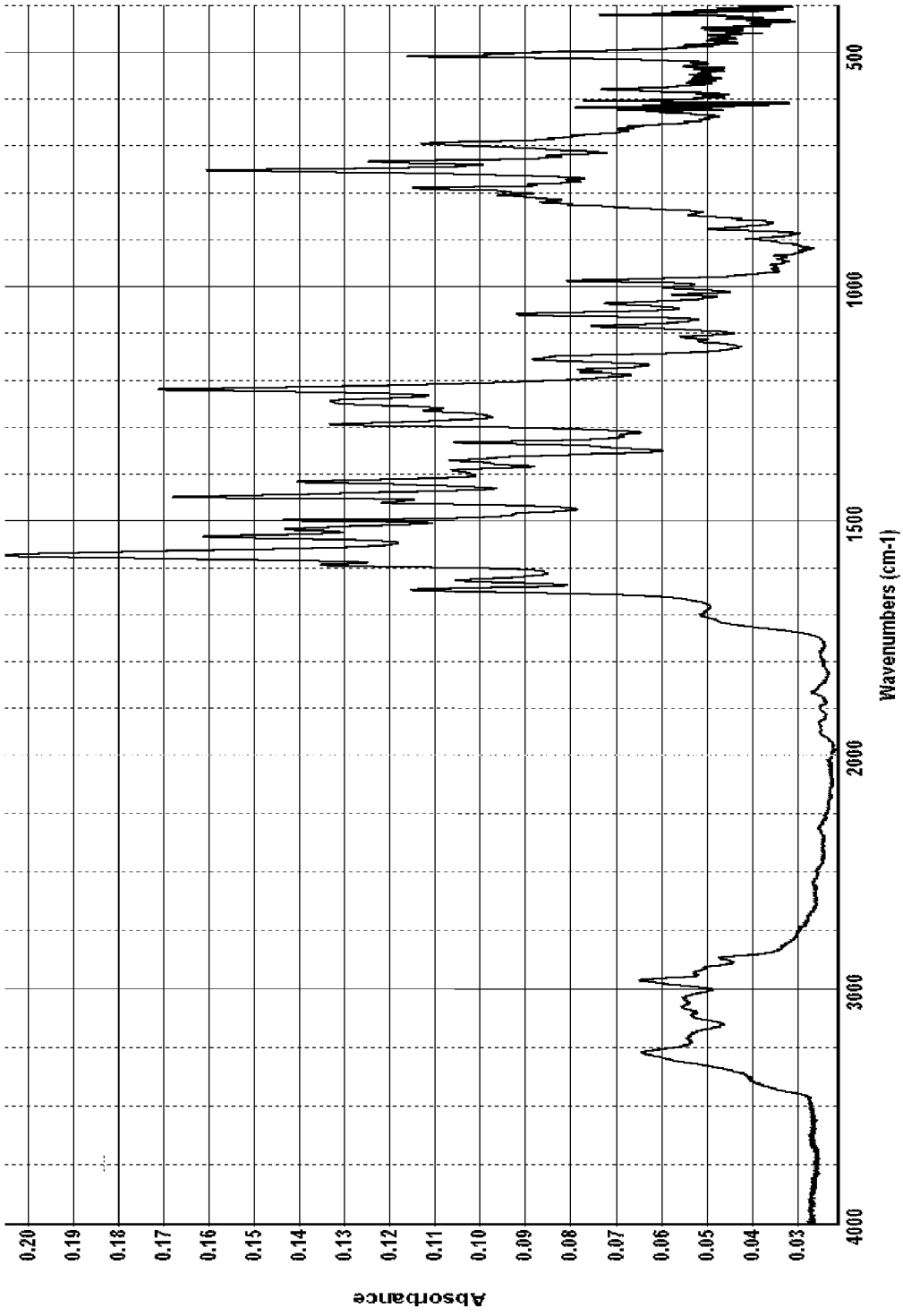
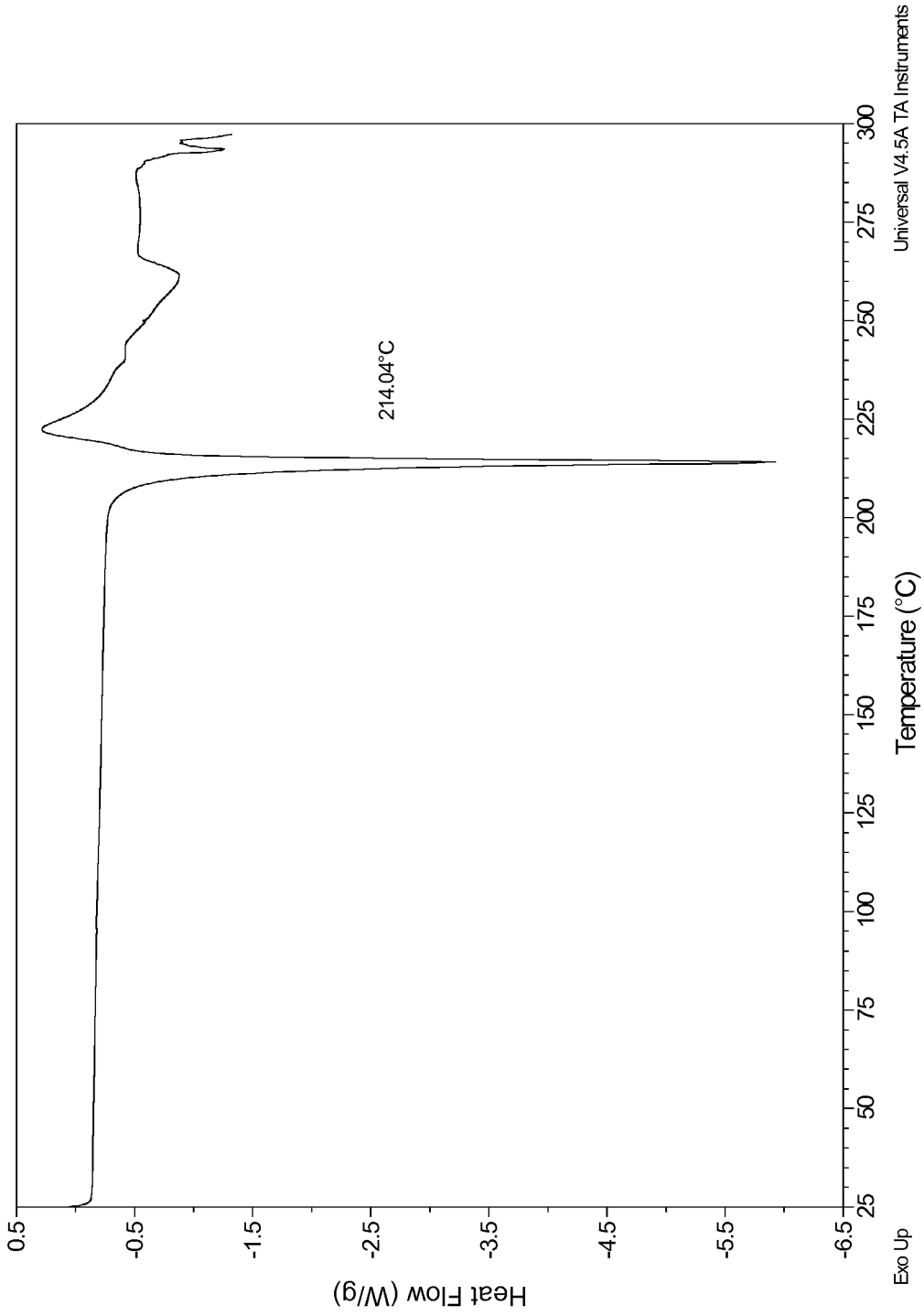

Absorbance
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
4000
3000
2000
1500
1000
500
Wavenumbers (cm-1)

Figure 7


214.04°C
Heat Flow (W/g)
0.5
-0.5
-1.5
-2.5
-3.5
-4.5
-5.5
-6.5
Exo Up
25
50
75
100
125
150
175
200
225
250
275
300
Temperature (°C)
Universal V4.5A TA Instruments