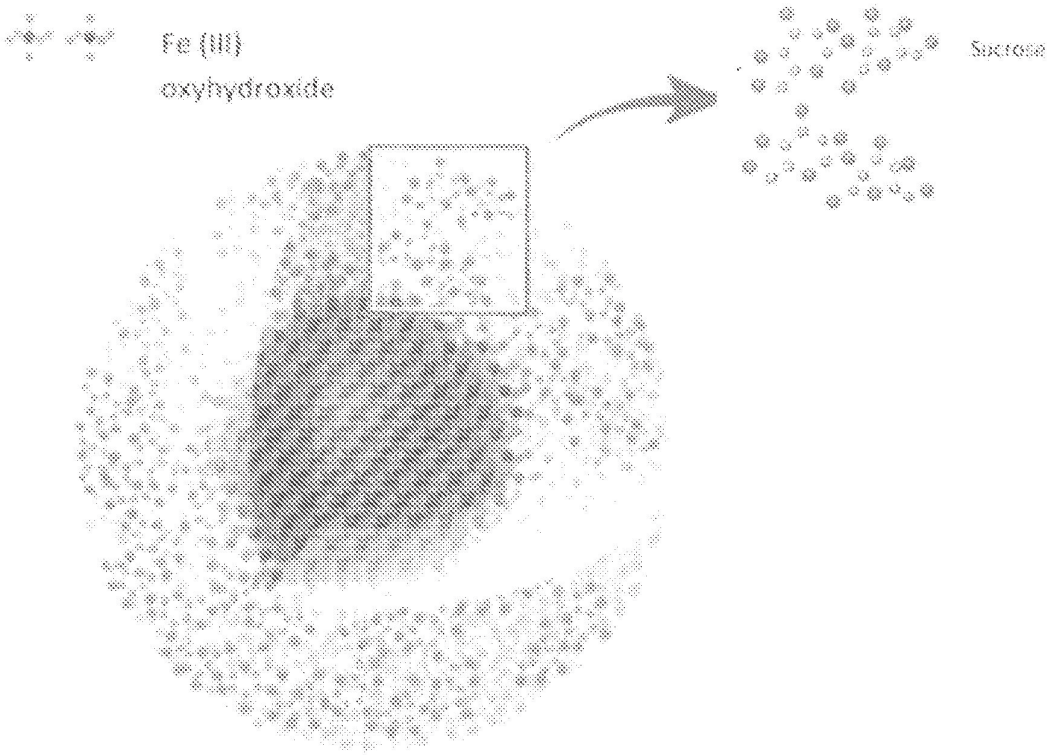

Fig. 1



Fig. 2

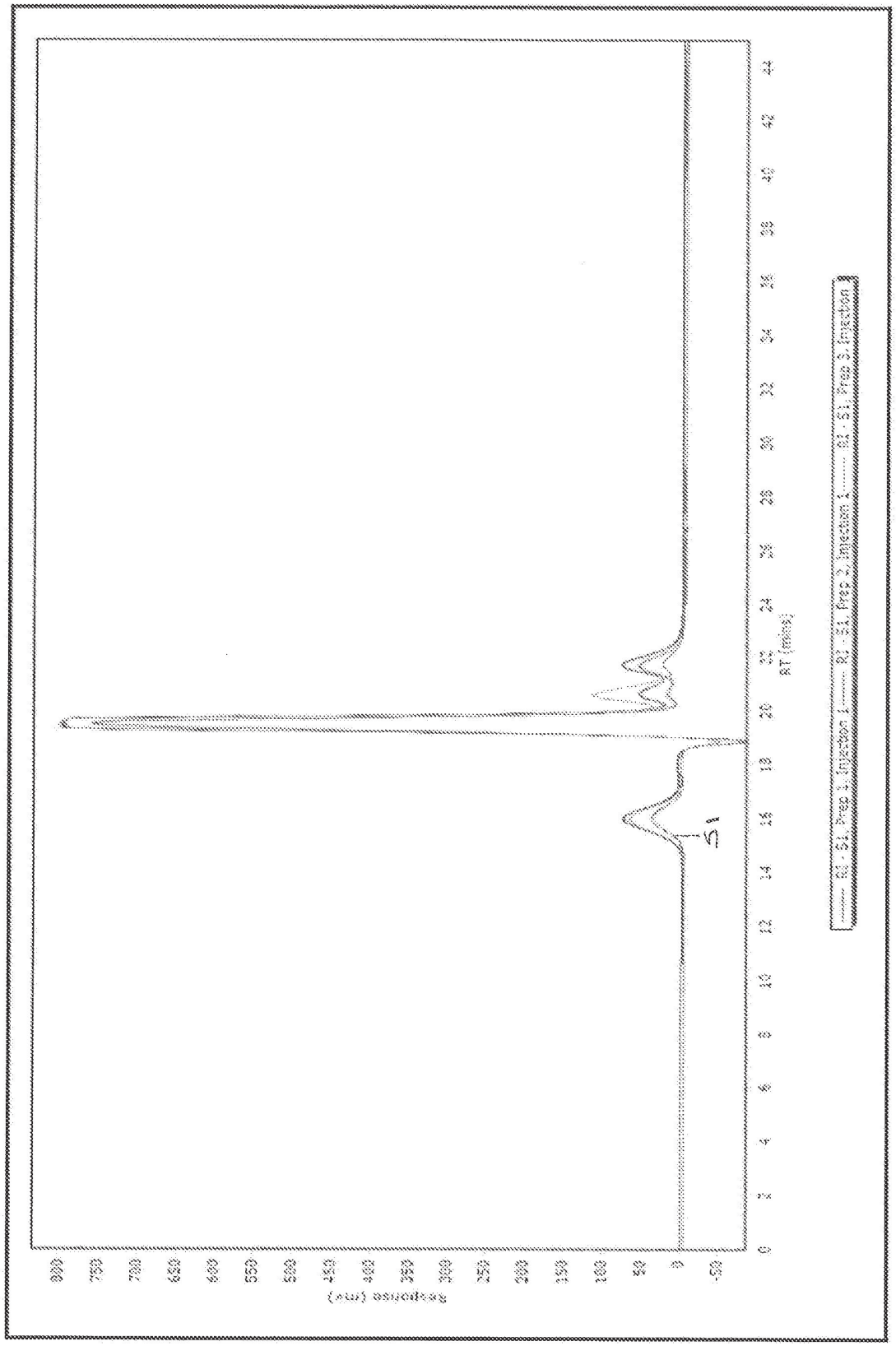
S1
RT (mins)
S1 - S1, Prep 3, Injection 1
S2 - S1, Prep 2, Injection 1
S1 - S1, Prep 3, Injection

Fig. 3:

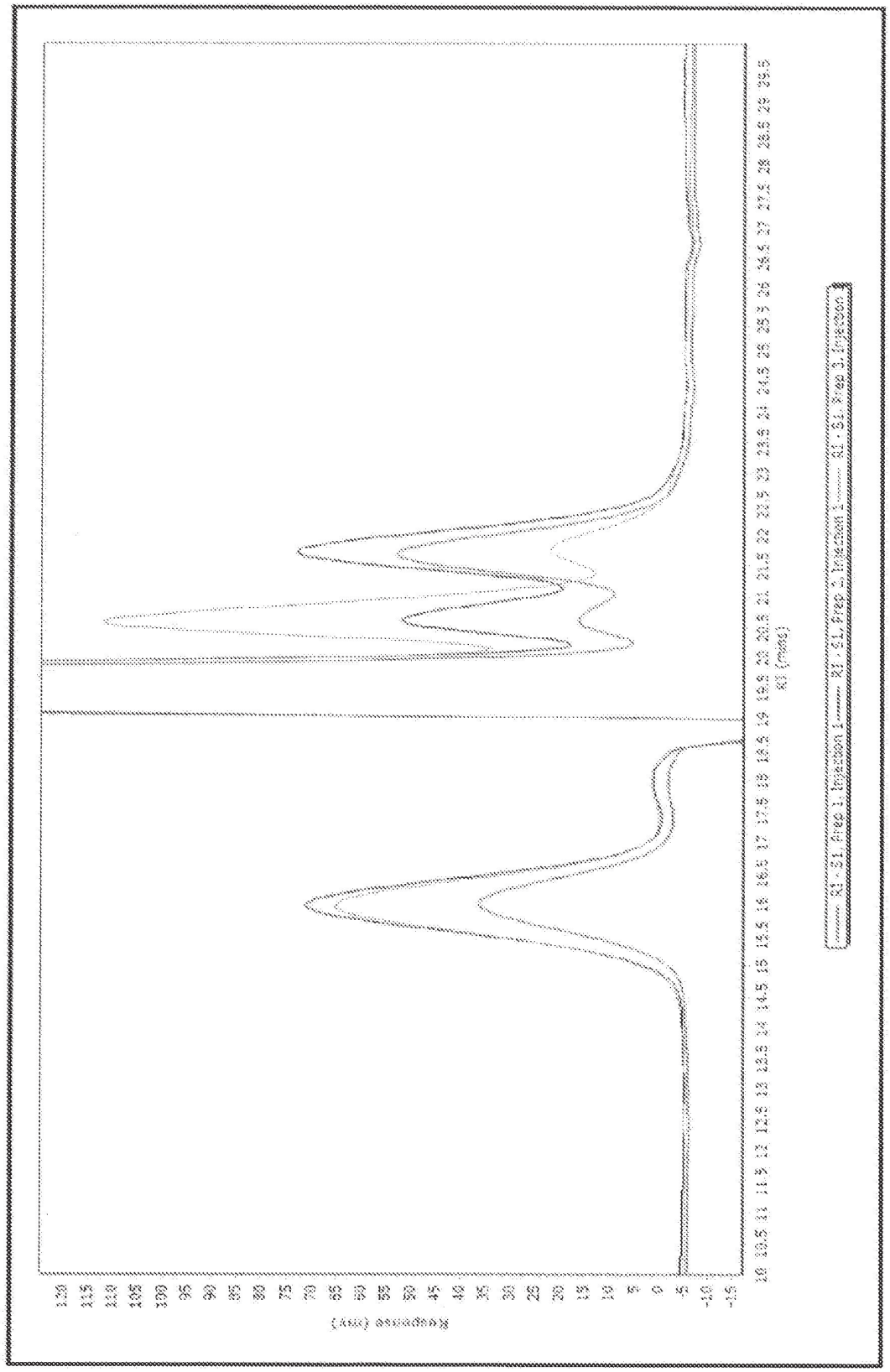
Response (mV)
120
115
110
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
-5
-10
-15
20 19.5 19 18.5 18 17.5 17 16.5 16 15.5 15 14.5 14 13.5 13 12.5 12 11.5 11 10.5 10 9.5 9 8.5 8 7.5 7 6.5 6 5.5 5 4.5 4 3.5 3 2.5 2 1.5 1 0.5 0 -0.5 -1 -1.5 -2 -2.5 -3 -3.5 -4 -4.5 -5 -5.5 -6 -6.5 -7 -7.5 -8 -8.5 -9 -9.5 -10 -10.5 -11 -11.5 -12 -12.5 -13 -13.5 -14 -14.5 -15 -15.5 -16 -16.5 -17 -17.5 -18 -18.5 -19 -19.5 -20 -20.5 -21 -21.5 -22 -22.5 -23 -23.5 -24 -24.5 -25 -25.5 -26 -26.5 -27 -27.5 -28 -28.5 -29 -29.5
RT (mins)
S1 - S1_Prep 1_Injection 1
S1 - S1_Prep 2_Injection 1
S1 - S1_Prep 3_Injection 1

Fig. 4

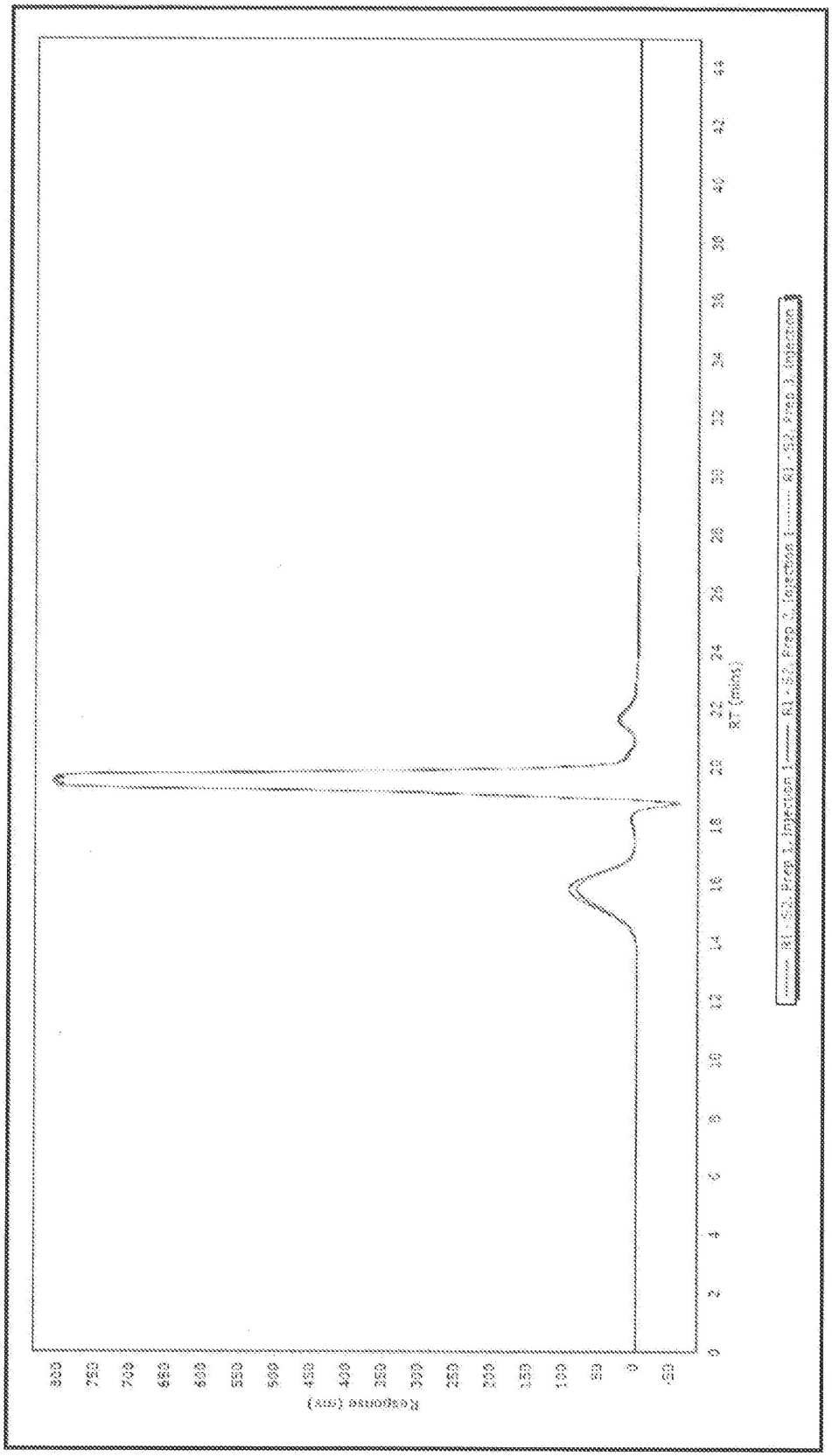
Response (mv)
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
RT (mins)
R1 - S2, Prep 1, Injection 1
R1 - S2, Prep 2, Injection 1
R1 - S2, Prep 3, Injection 1

Fig. 5

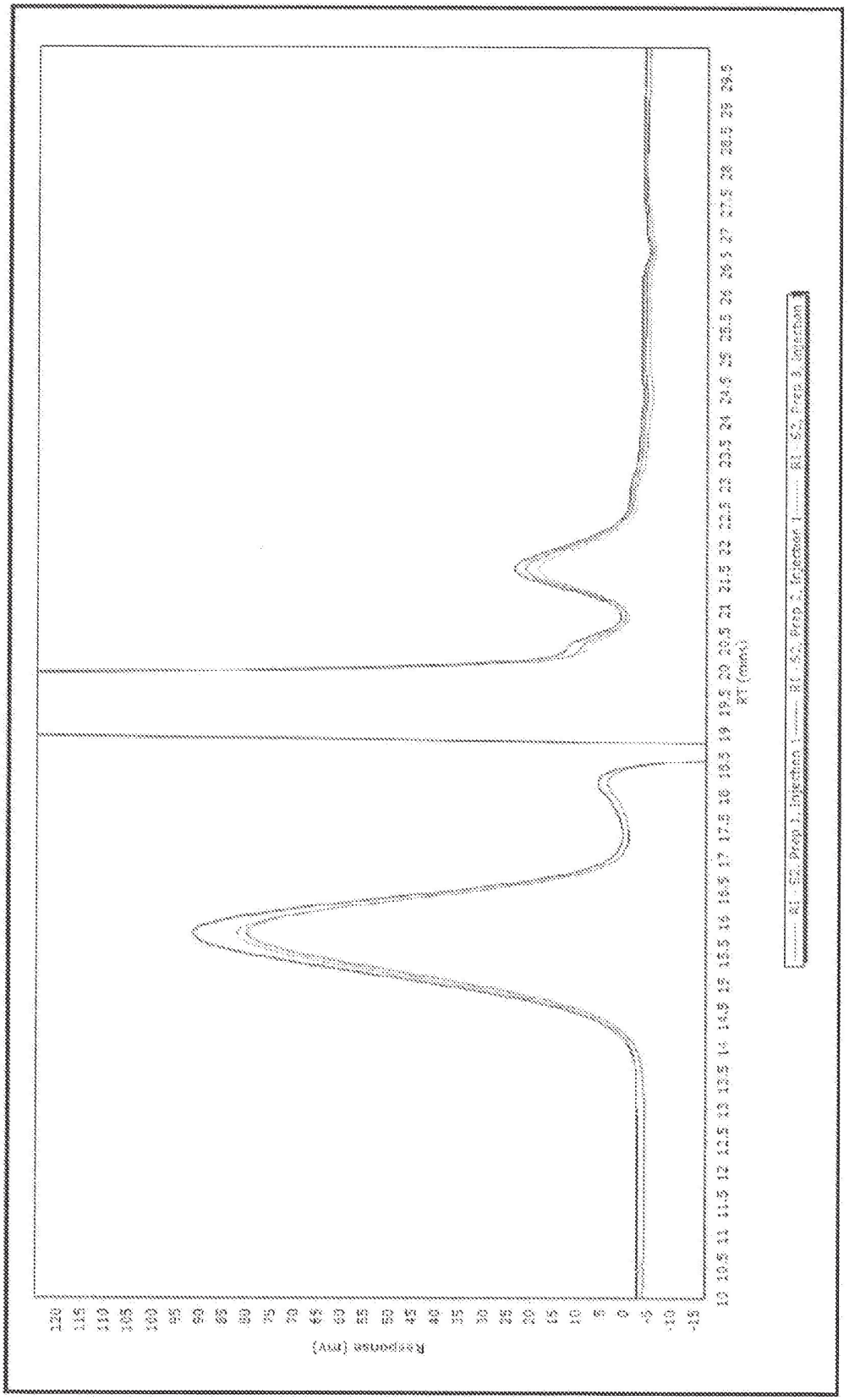
Response (mV)
RT (mins)
R1 - SS, Prep 3, Injection 1
R1 - SS, Prep 3, Injection 3

Fig. 6

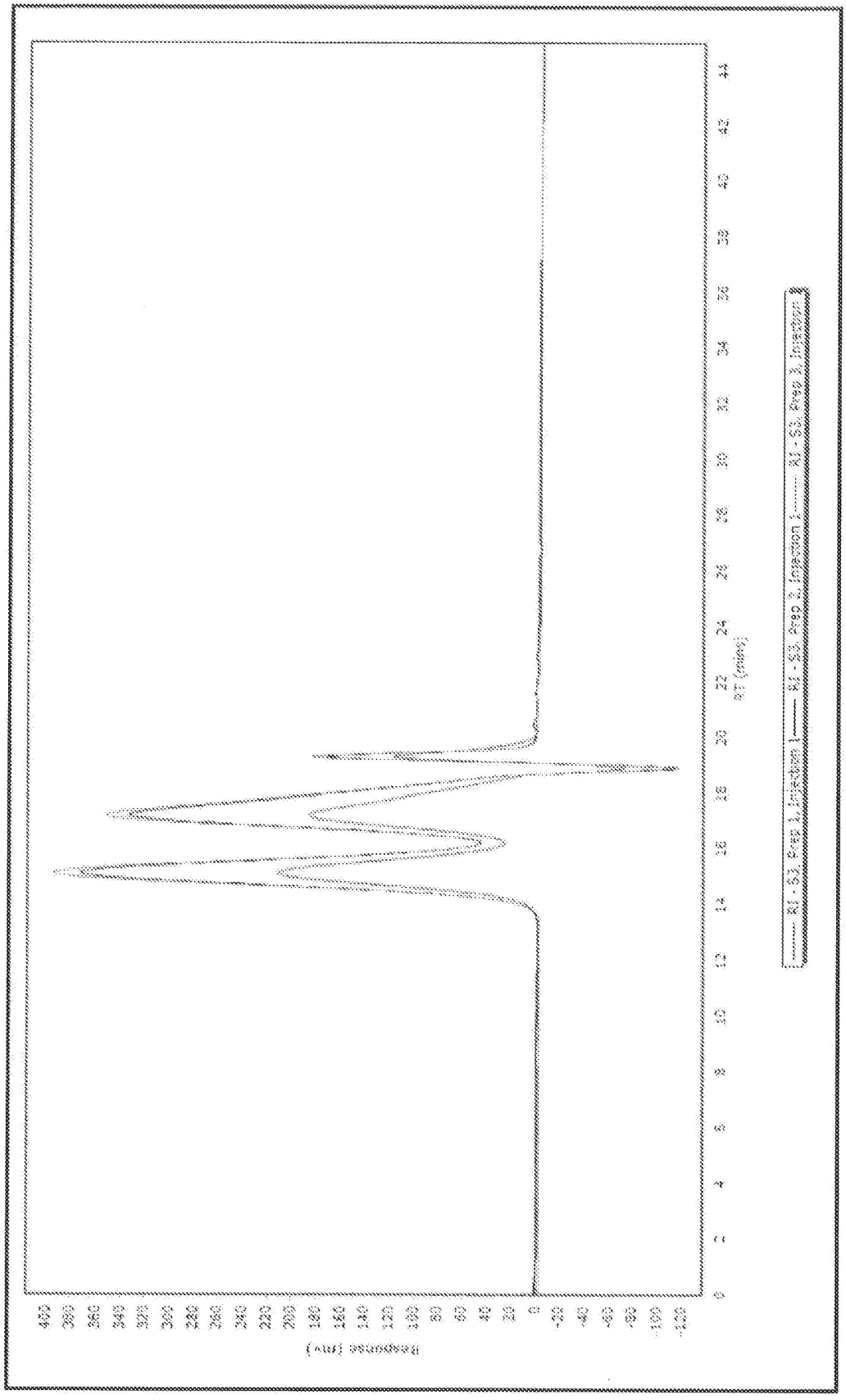
Response (mV)
RT (mins)
RI - S1, Prep 1, Injection 1
RI - S3, Prep 2, Injection 1
RI - S3, Prep 2, Injection 2

Fig. 7

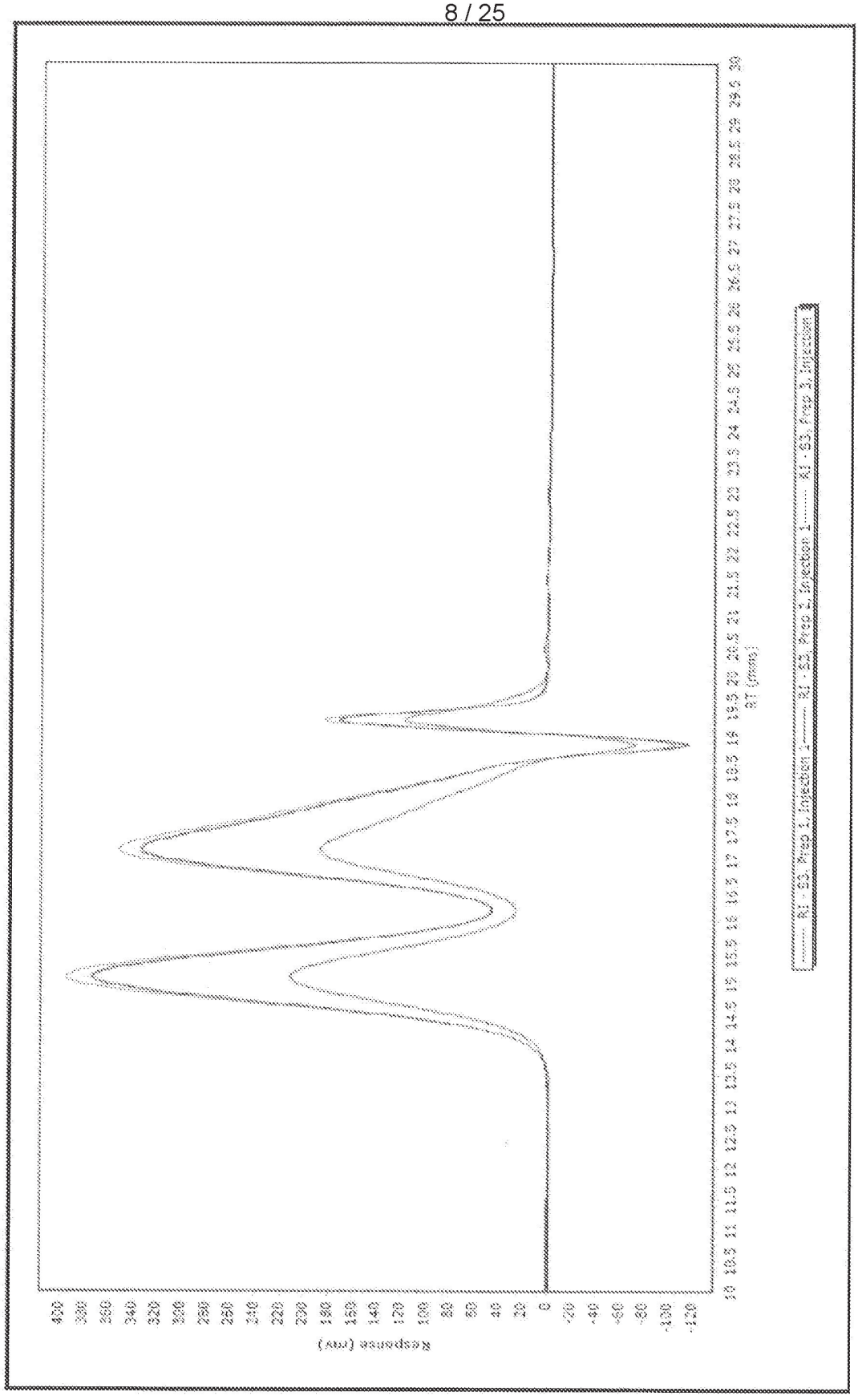
Response (mv)
RT (mins)
R1 - 53 Prep 1 Injection 1
R1 - 53 Prep 2 Injection 1
R1 - 53 Prep 3 Injection 1

Fig. 8

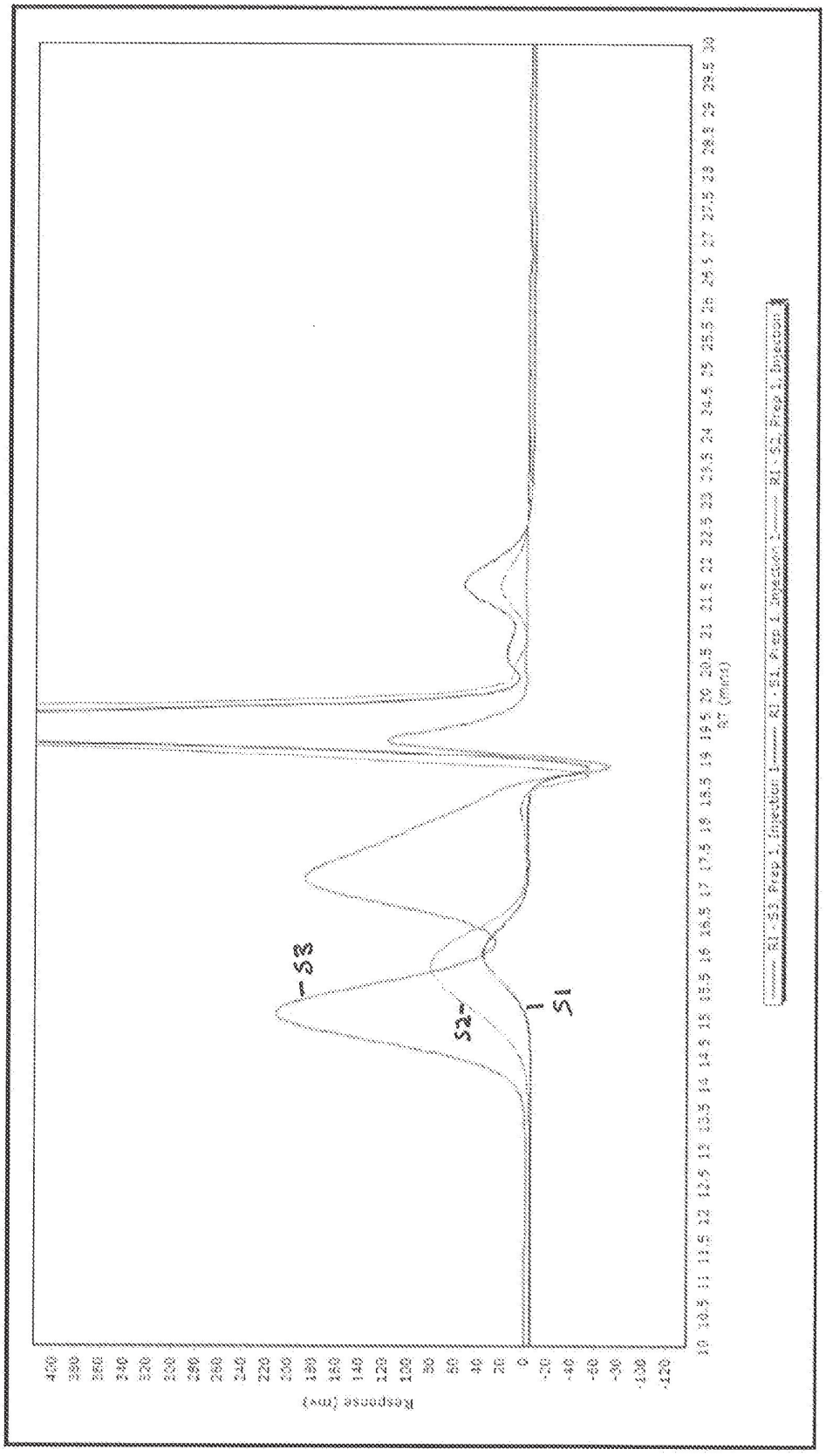
S3
S2
S1
Response (mv)
Time (min)
S1 - S3 Prep 1, Injection 1
S1 - S1, Prep 1, Injection 1
S1 - S2, Prep 1, Injection 1

Fig. 9

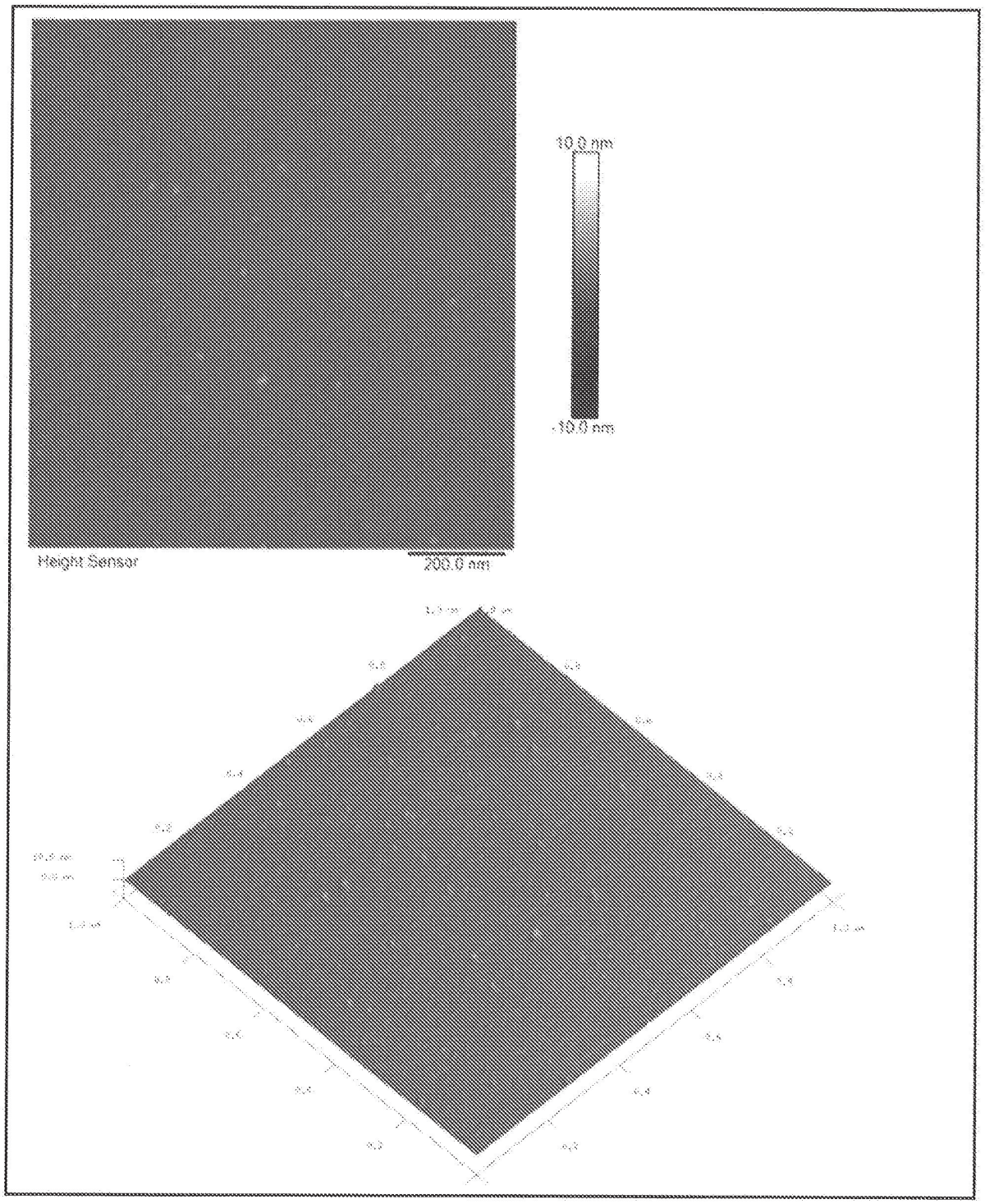

Fig. 10

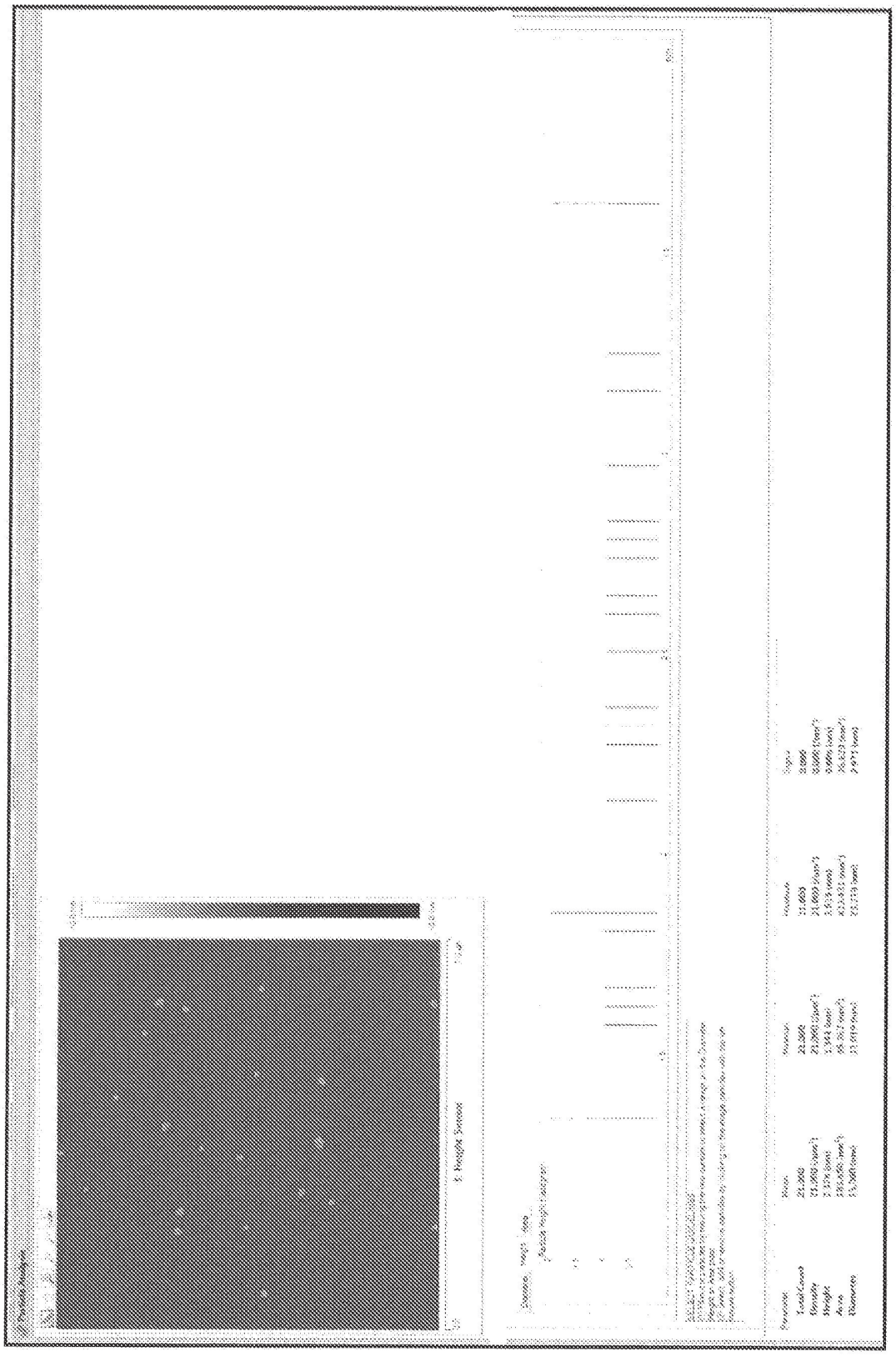

Fig. 11

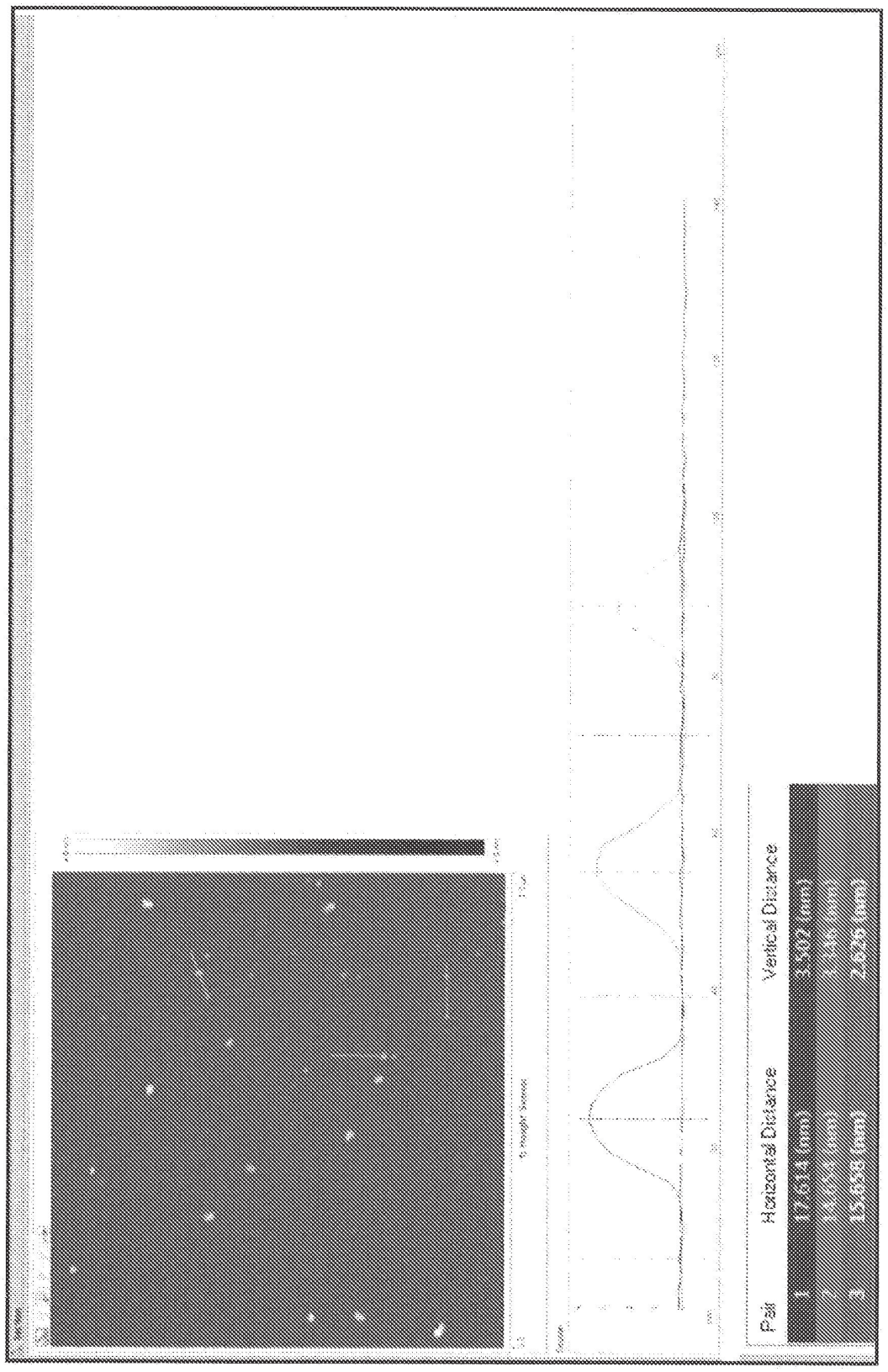
Pair
Horizontal Distance
Vertical Distance
1
17.614 (nm)
3.502 (nm)
2
14.654 (nm)
3.346 (nm)
3
15.658 (nm)
2.626 (nm)

FIG. 12

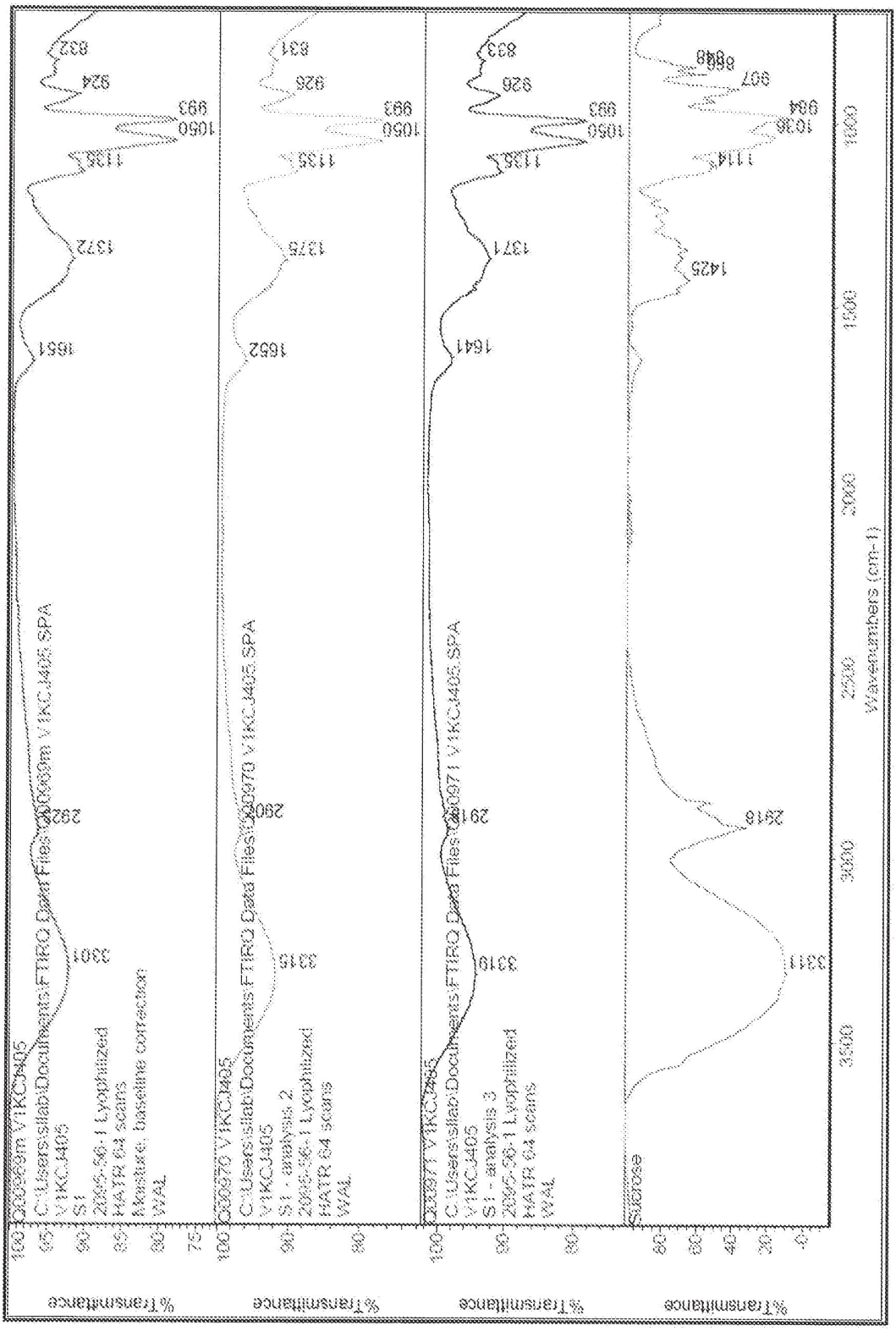
%Transmittance
Wavenumbers (cm-1)
Sucrose
C:\Users\silab\Documents\FTIR\Data Files\200969m V1KCJ405.SPA
C:\Users\silab\Documents\FTIR\Data Files\200970 V1KCJ405.SPA
C:\Users\silab\Documents\FTIR\Data Files\200971 V1KCJ405.SPA

FIG. 13

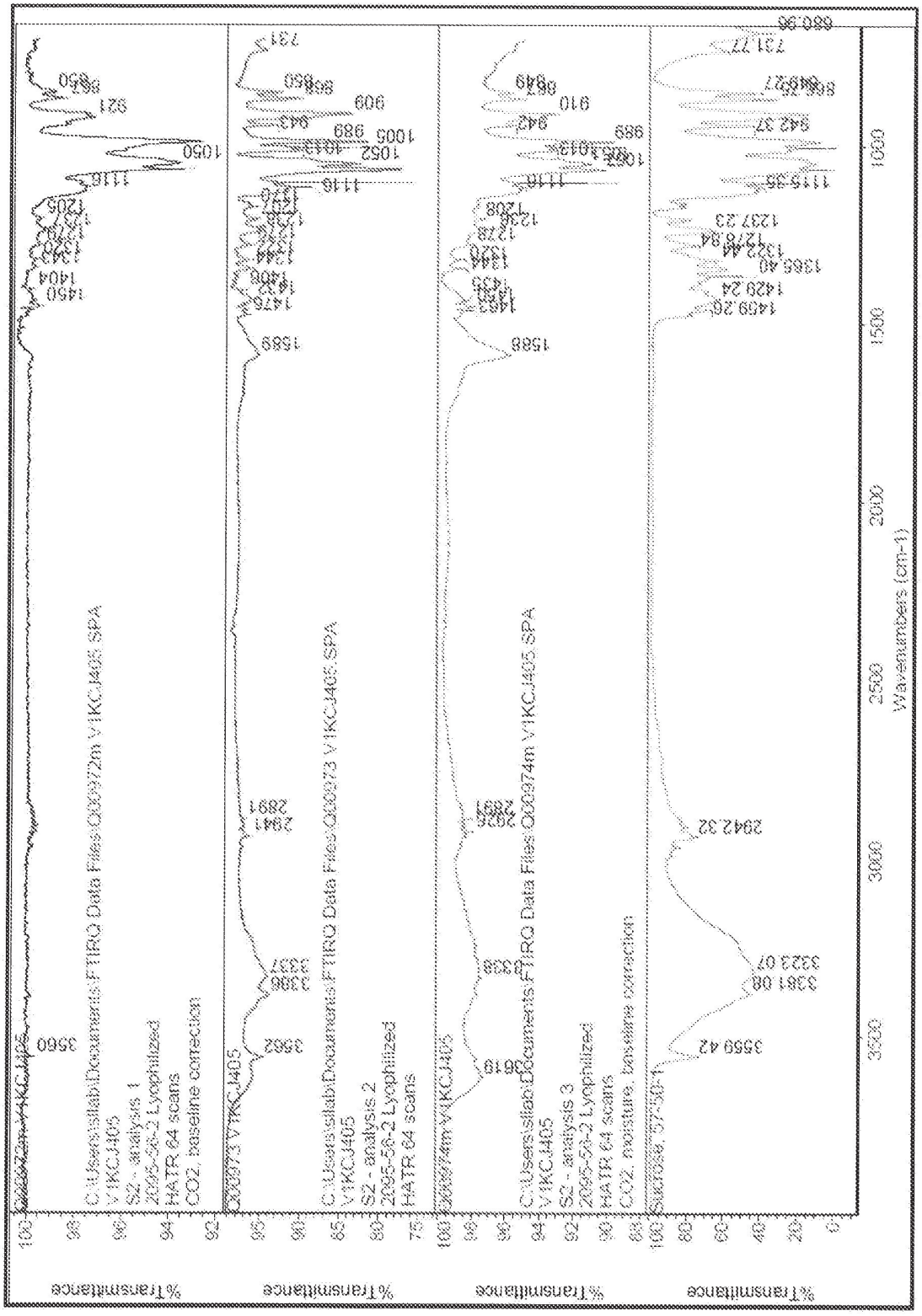
%Transmittance
Wavenumbers (cm-1)
4000
3500
3000
2500
2000
1500
1000
C:\Users\sflab\Documents\FTIRQ Data Files\Q00972m V1KCJ405.SPA
V1KCJ405
SZ - analysis 1
2005-56-2 Lyophilized
HATR 64 scans
CO2, baseline correction
C:\Users\sflab\Documents\FTIRQ Data Files\Q00973 V1KCJ405.SPA
V1KCJ405
SZ - analysis 2
2005-56-2 Lyophilized
HATR 64 scans
C:\Users\sflab\Documents\FTIRQ Data Files\Q00974m V1KCJ405.SPA
V1KCJ405
SZ - analysis 3
2005-56-2 Lyophilized
HATR 64 scans
CO2, moisture, baseline correction

FIG. 14

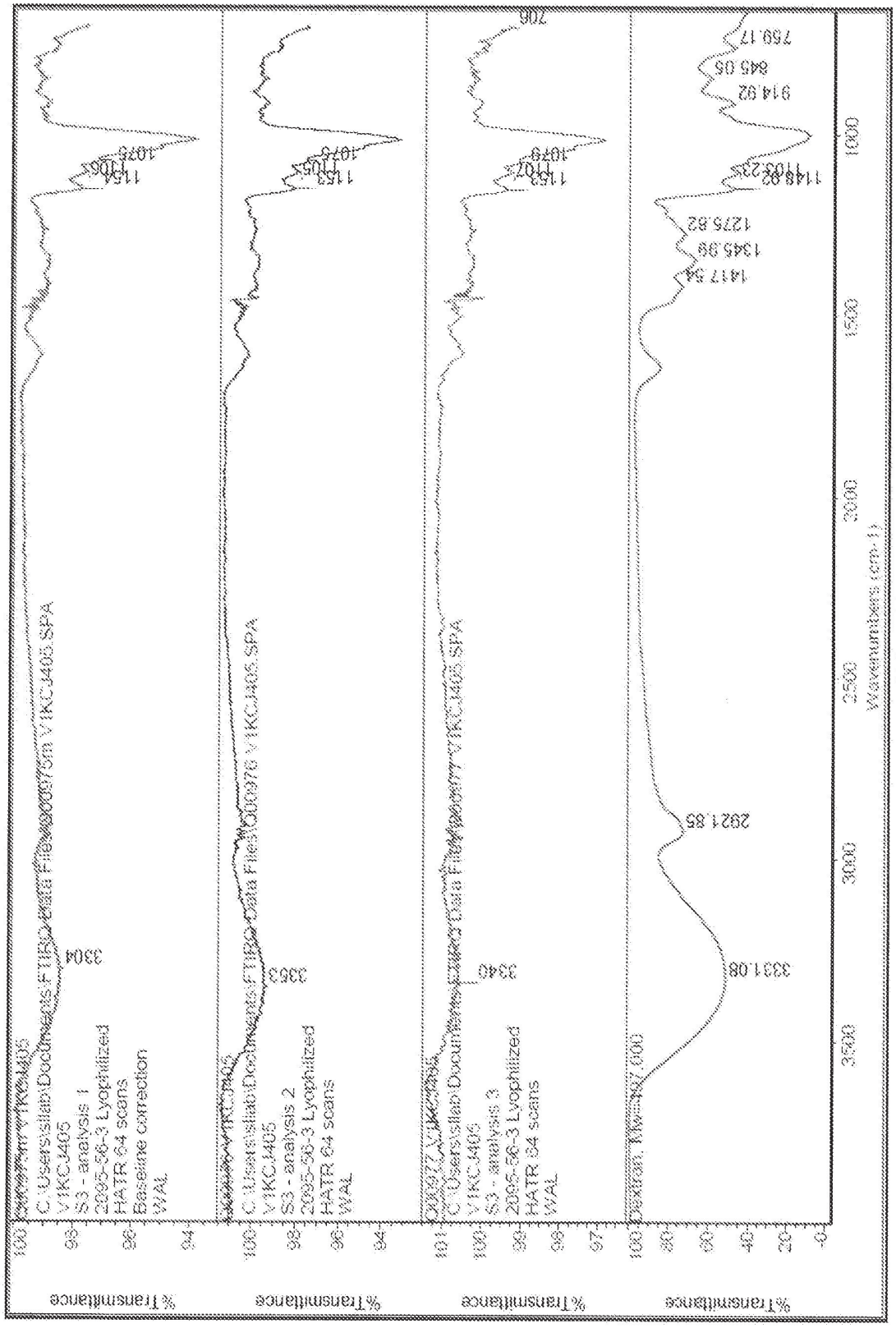
%Transmittance
Wavenumbers (cm-1)
4000
3500
3000
2500
2000
1500
1000
3304
3363
3340
3331.08
2921.85
1154
1105
1079
1153
1102
1148.92
1417.54
1345.99
1275.82
914.92
845.05
759.17
706

FIG. 15

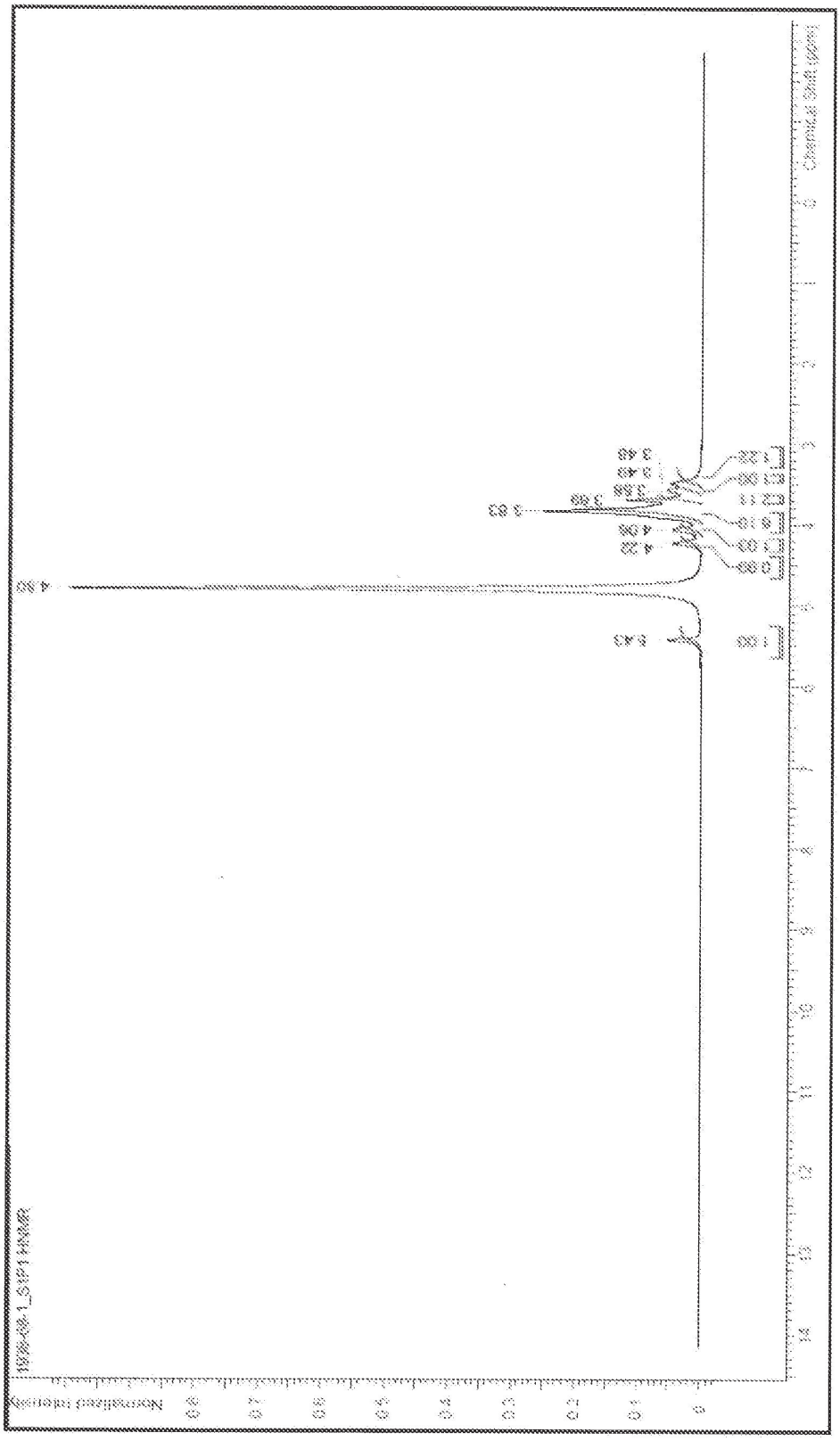

FIG. 16: 1H NMR spectra of S1-preparation 1

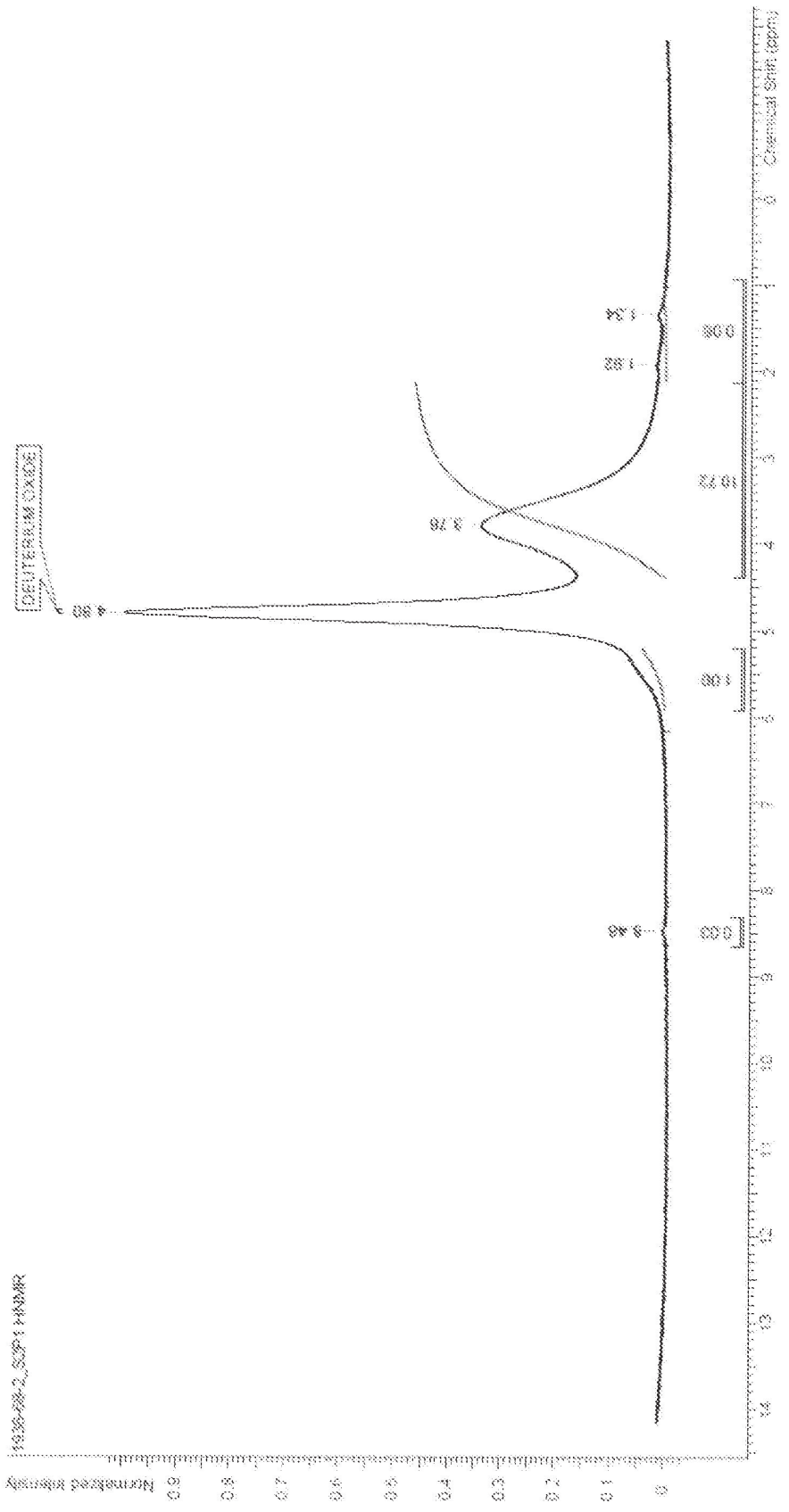

FIG. 17: 1H NMR spectra of S2-preparation 1

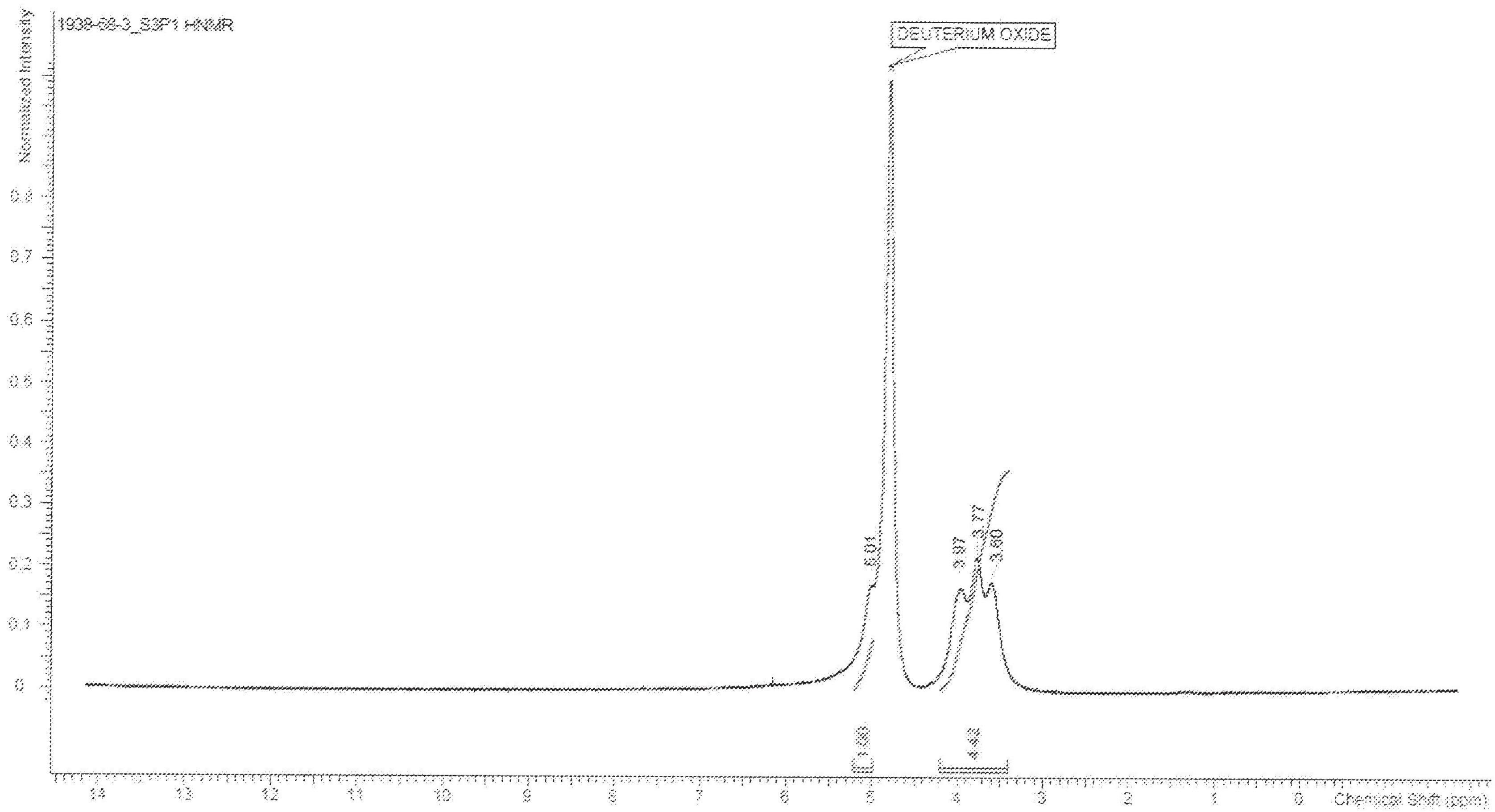

FIG. 18: 1H NMR spectra of S3-preparation 1

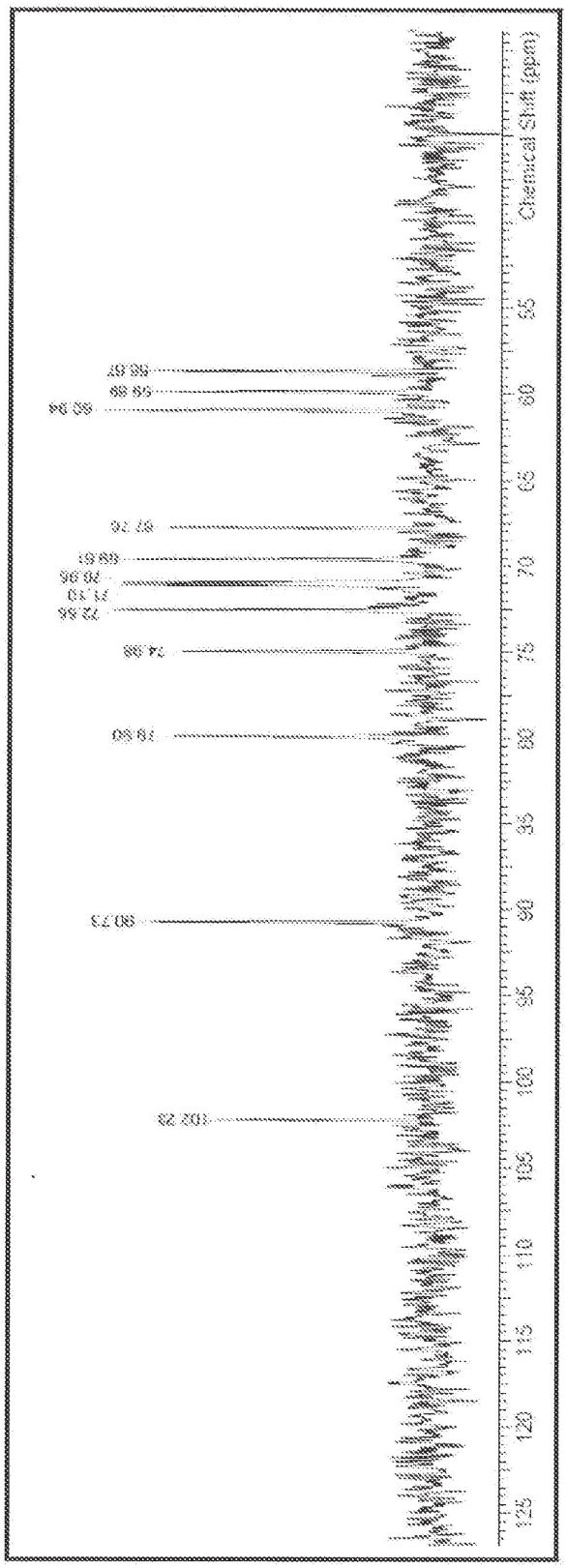

FIG. 19: 13C NMR spectra of S1-preparation 1

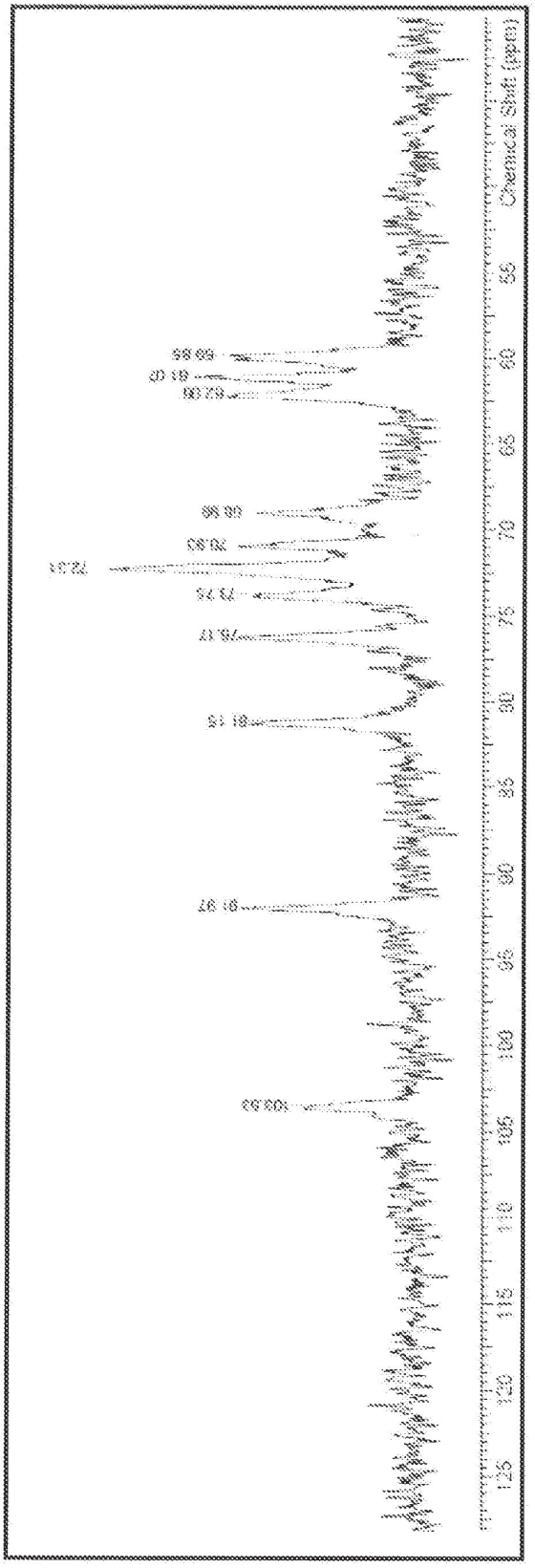

FIG. 20: 13C NMR spectra of S2-preparation 1

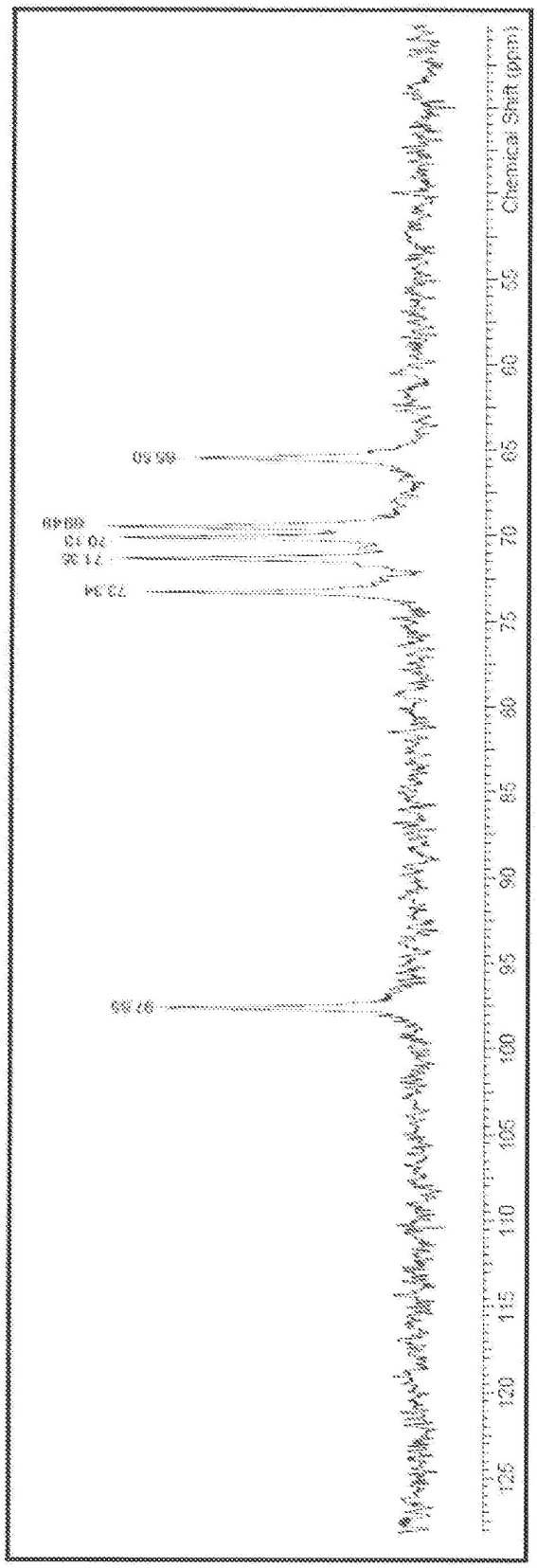

FIG. 21: 13C NMR spectra of S3-preparation 1

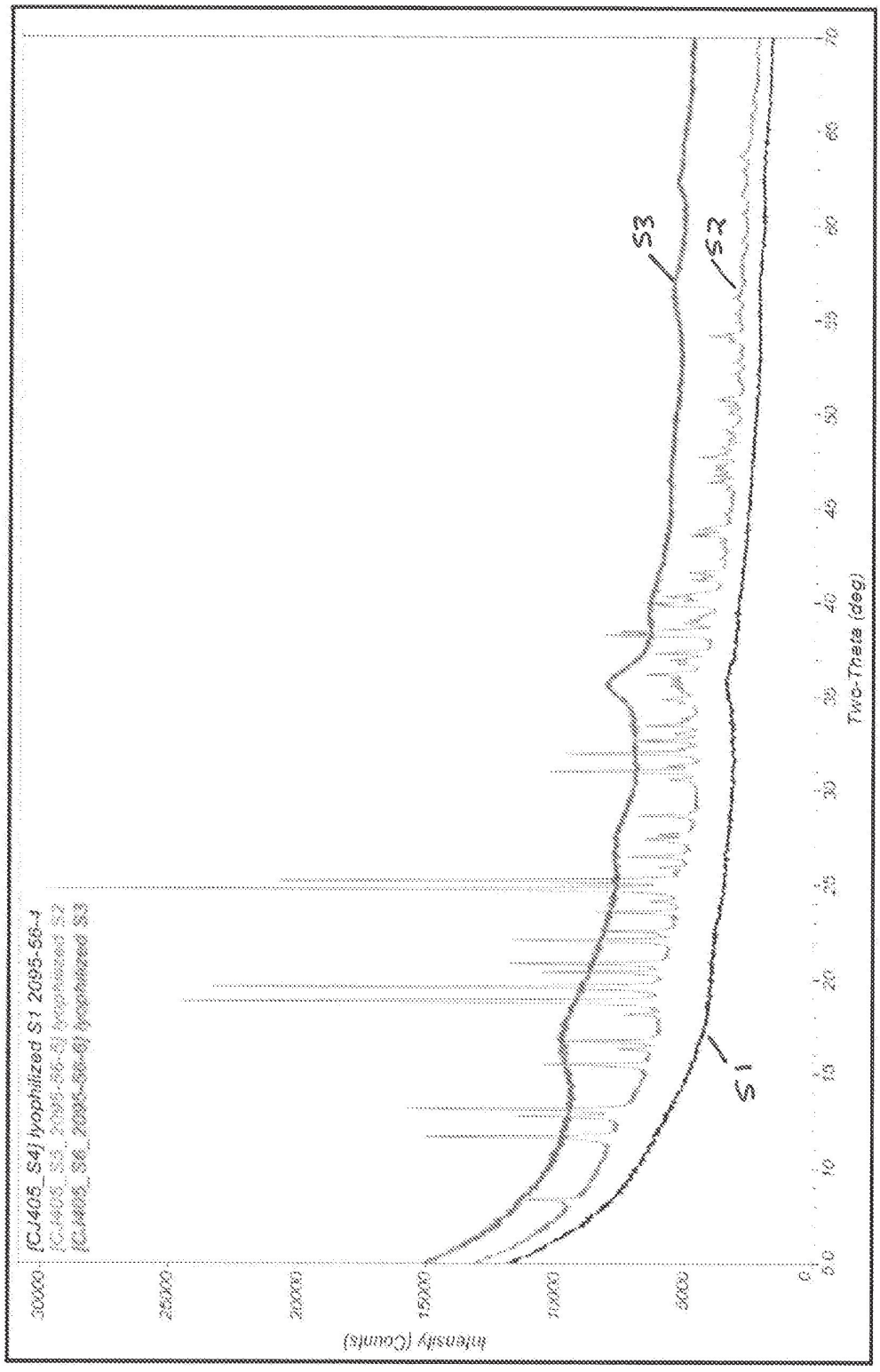

FIG. 22: Raw data comparison for the three samples (lyophilized)

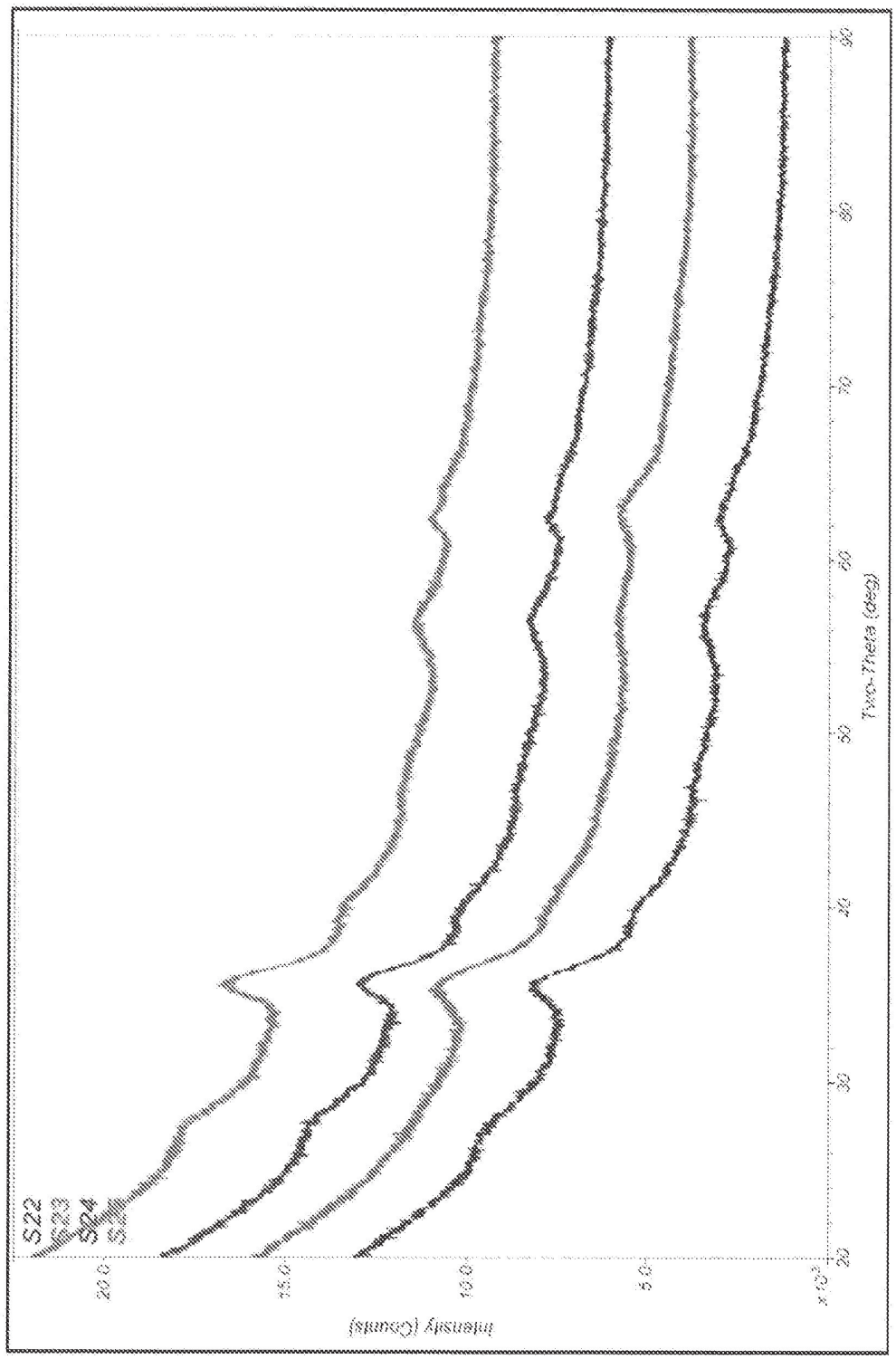

FIG. 23: Offset overlay of the data from all three samples (two replicates for S3)

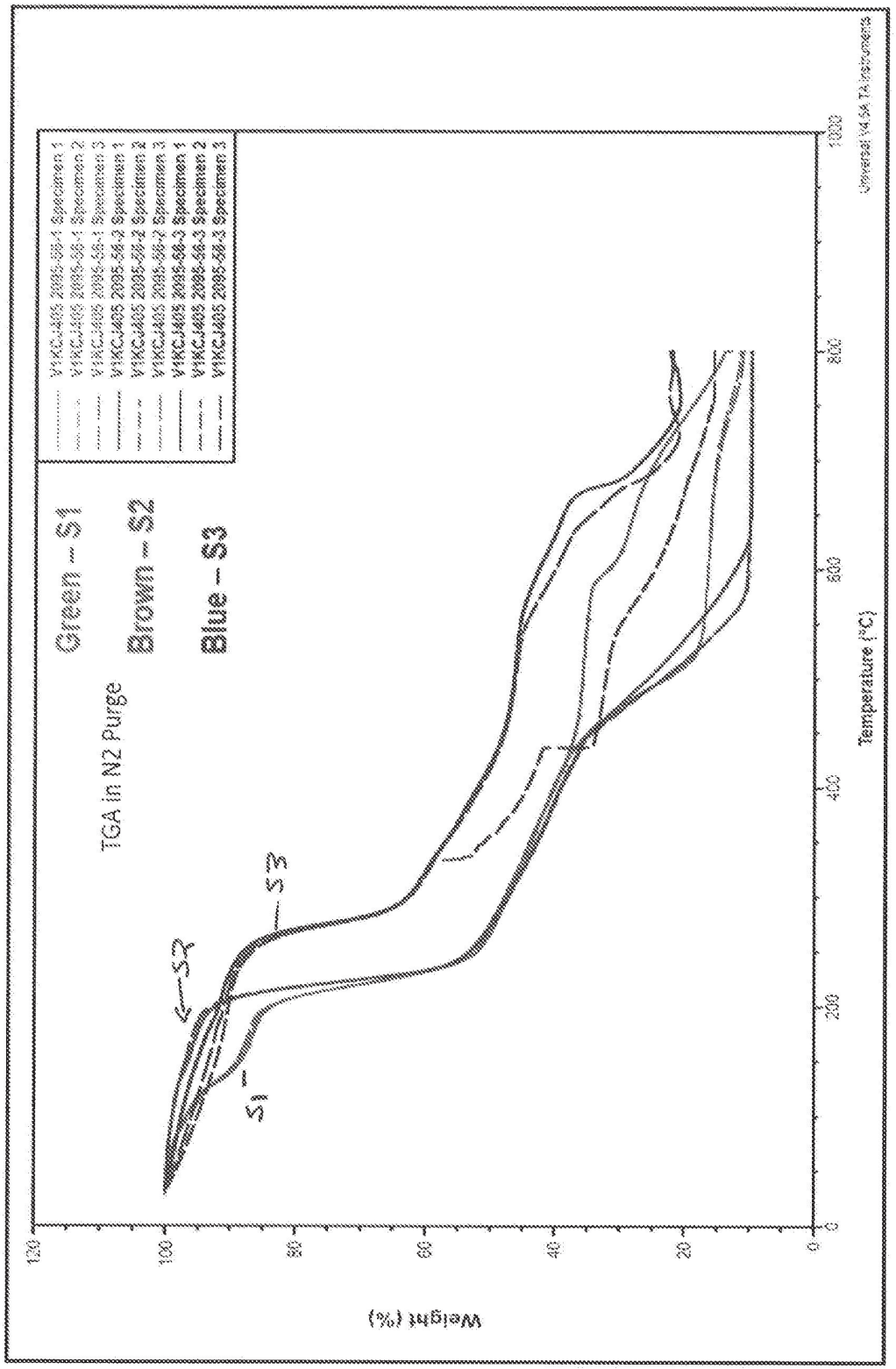

Fig. 24: TGA thermogram of S1, S2 and S3 under nitrogen purge condition

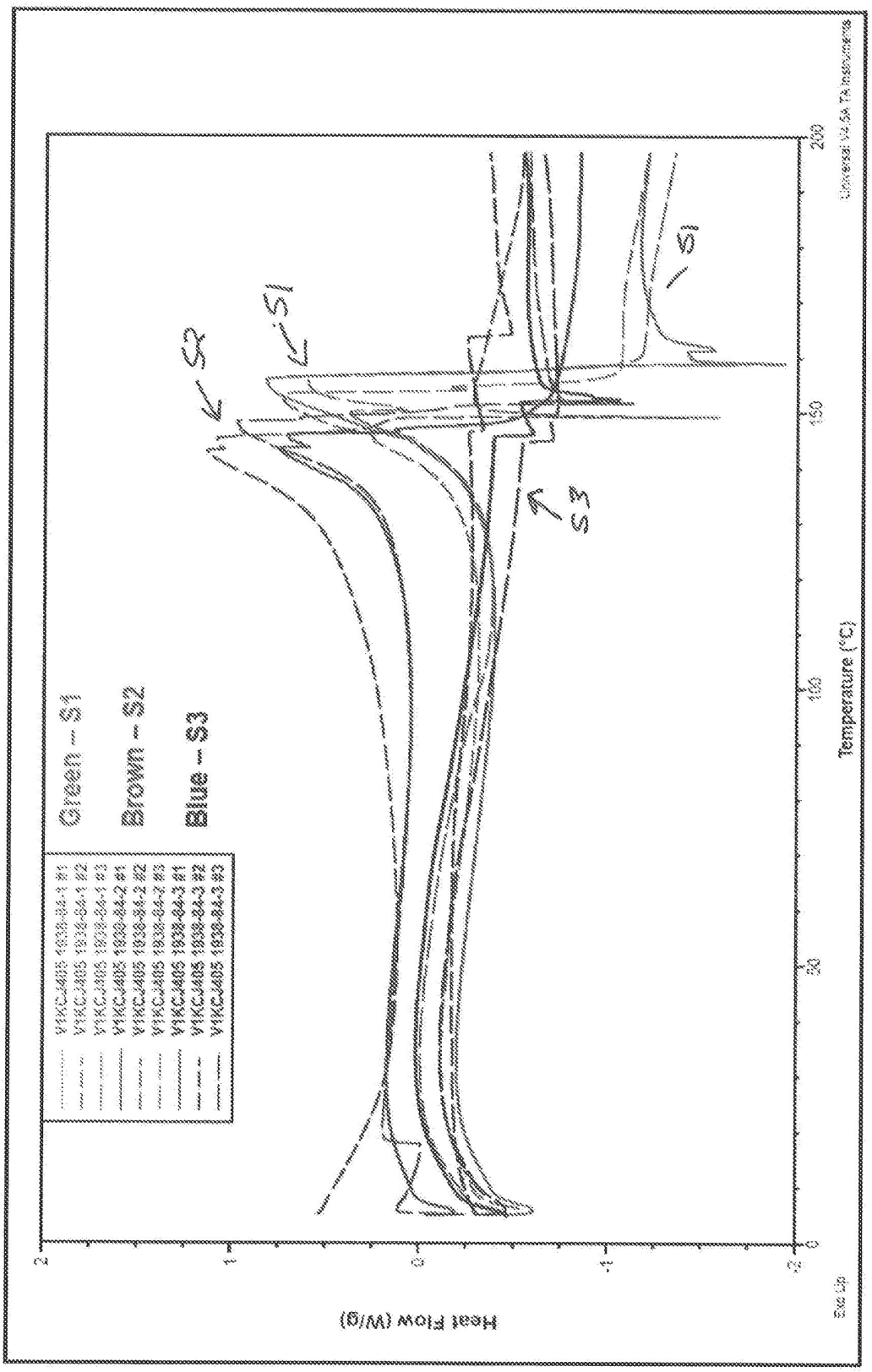

Fig. 25: DSC thermograms of S1, S2 and S3