Figure 1

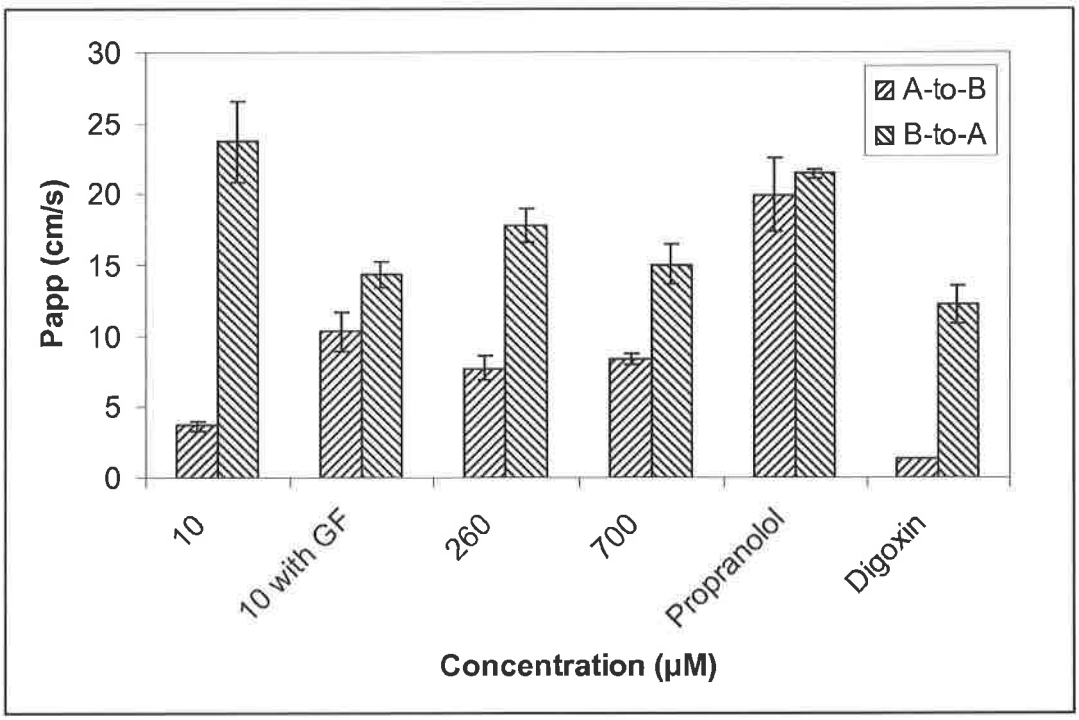

30
25
20
15
10
5
0
Papp (cm/s)
A-to-B
B-to-A
10
10 with GF
260
700
Propranolol
Digoxin
Concentration (µM)

Figure 2

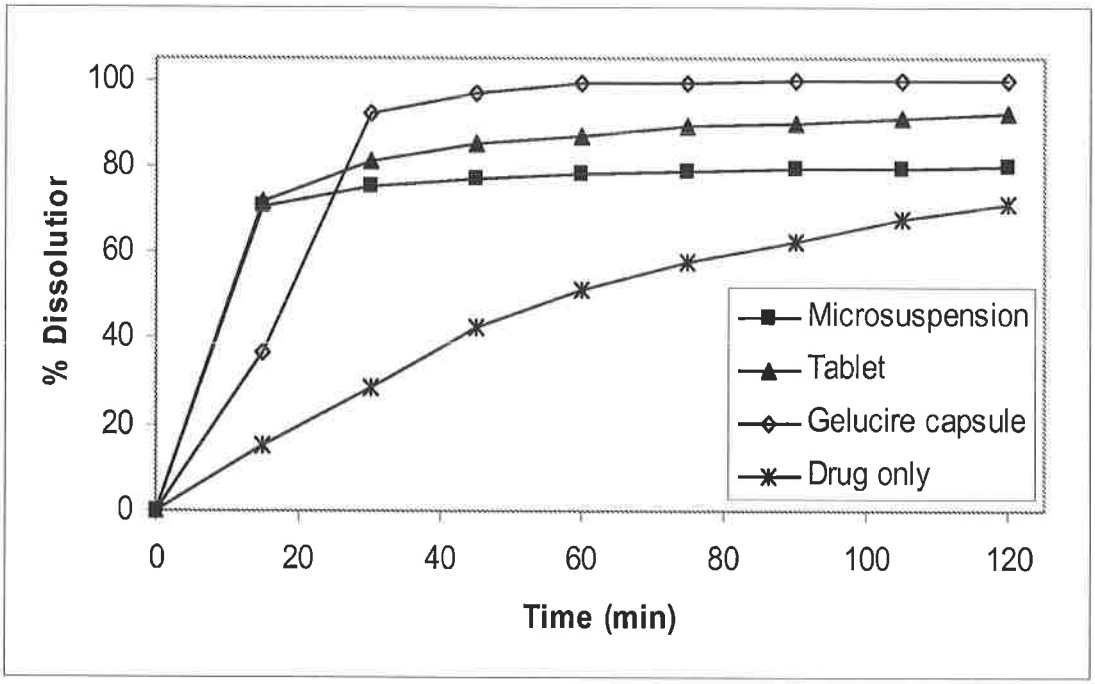

% Dissolutior
100
80
60
40
20
0
0
20
40
60
80
100
120
Time (min)
Microsuspension
Tablet
Gelucire capsule
Drug only

Figure 3

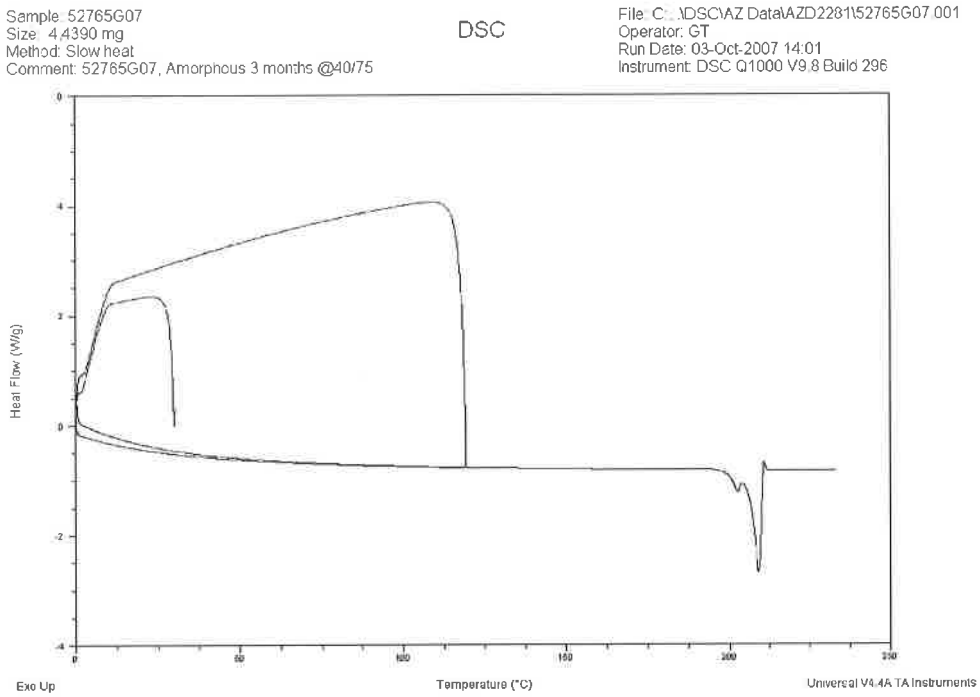

Sample: 52765G07
Size: 4.4390 mg
Method: Slow heat
Comment: 52765G07, Amorphous 3 months @40/75
DSC
File: C:\...\DSC\AZ Data\AZD2281\52765G07.001
Operator: GT
Run Date: 03-Oct-2007 14:01
Instrument: DSC Q1000 V9.8 Build 296
Heat Flow (W/g)
Exo Up
Temperature (°C)
Universal V4.4A TA Instruments

Figure 4

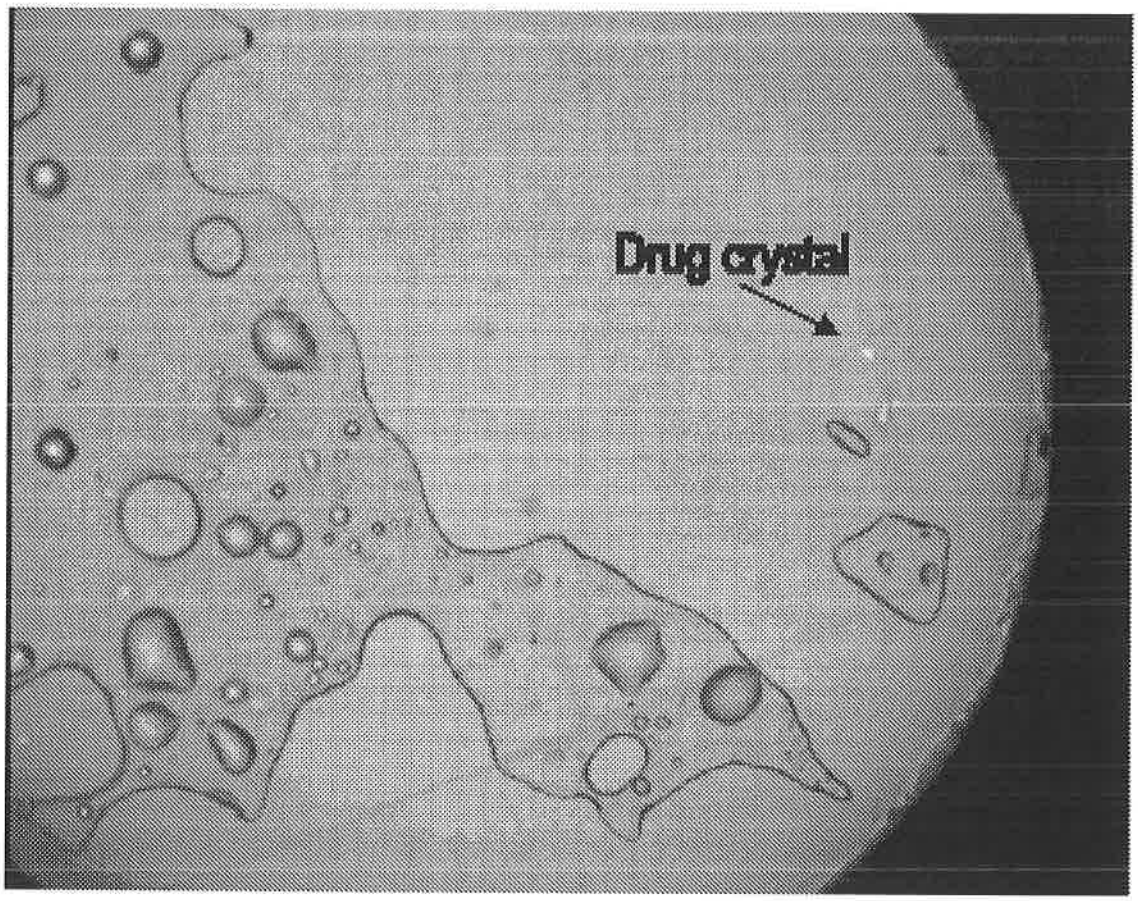


Figure 5

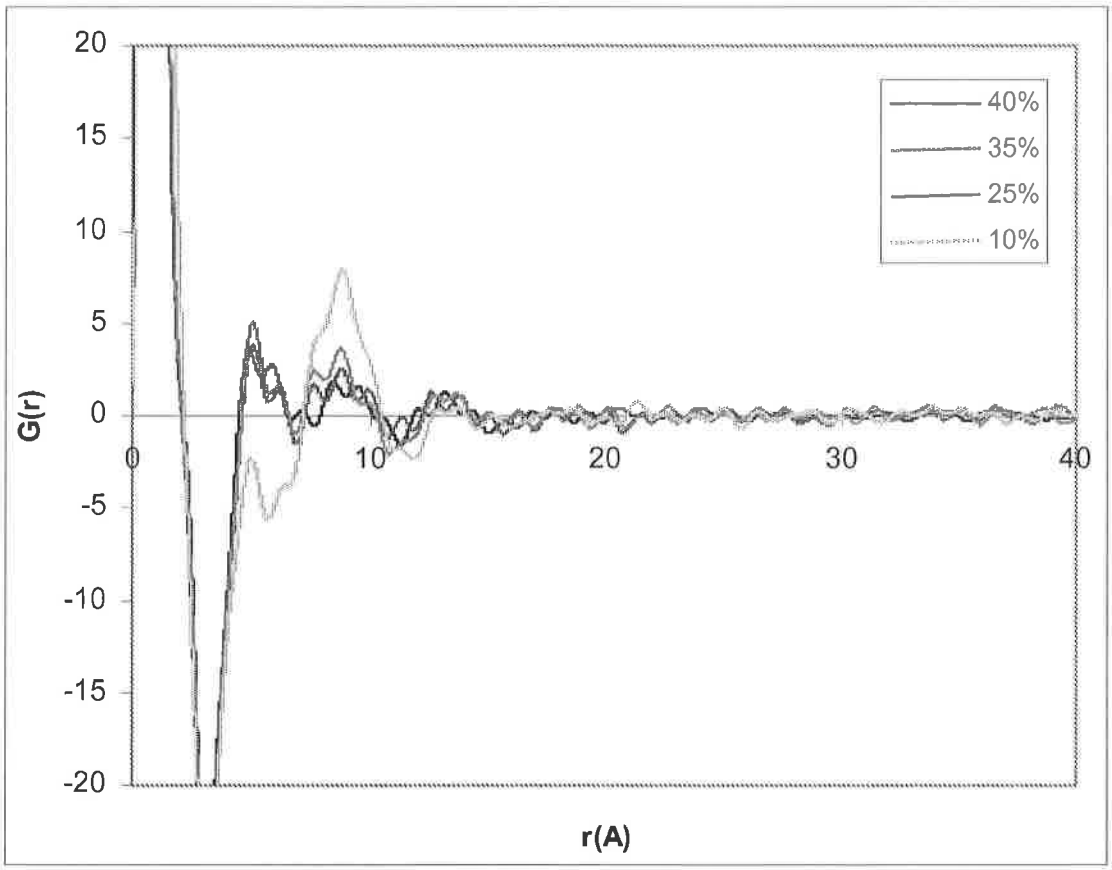


Figure 6

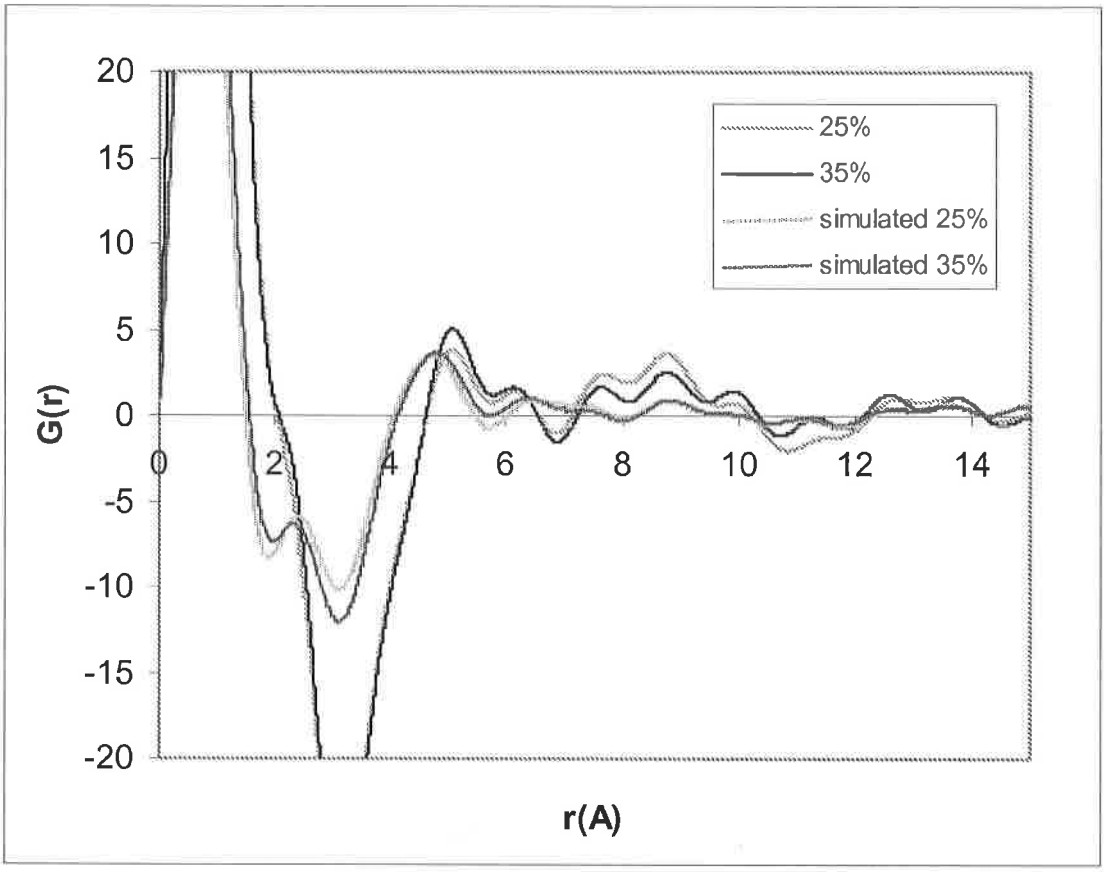

20
15
10
5
0
-5
-10
-15
-20
G(r)
0
2
4
6
8
10
12
14
r(A)
25%
35%
simulated 25%
simulated 35%

Figure 7

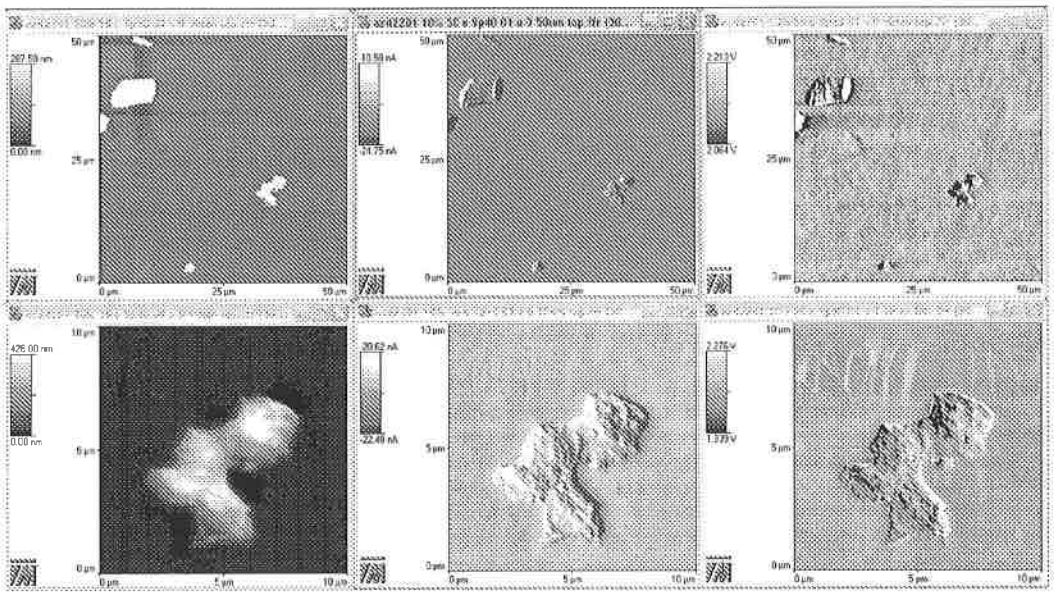


Figure 8

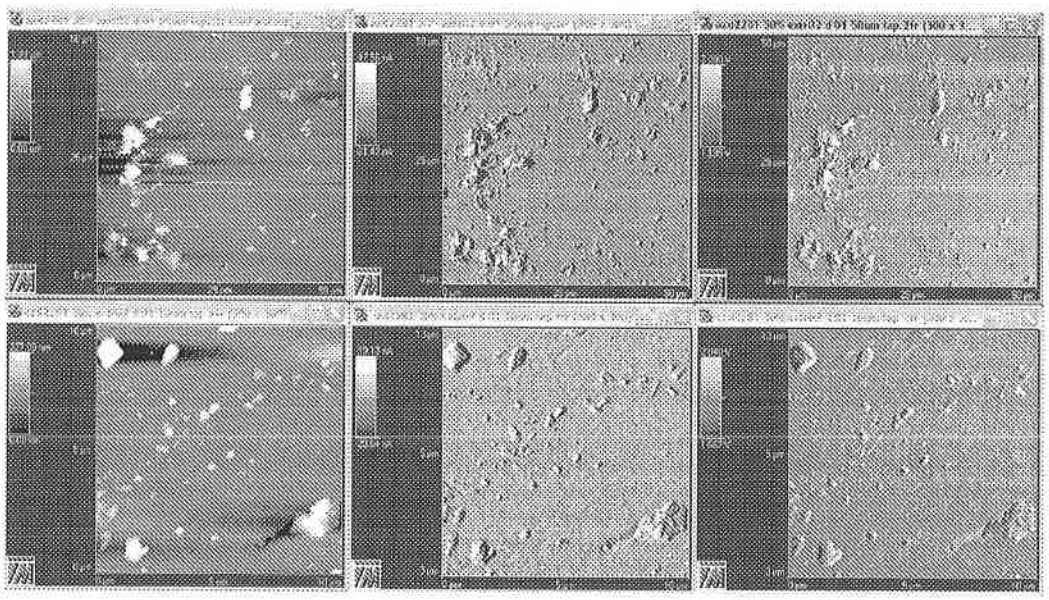


Figure 9

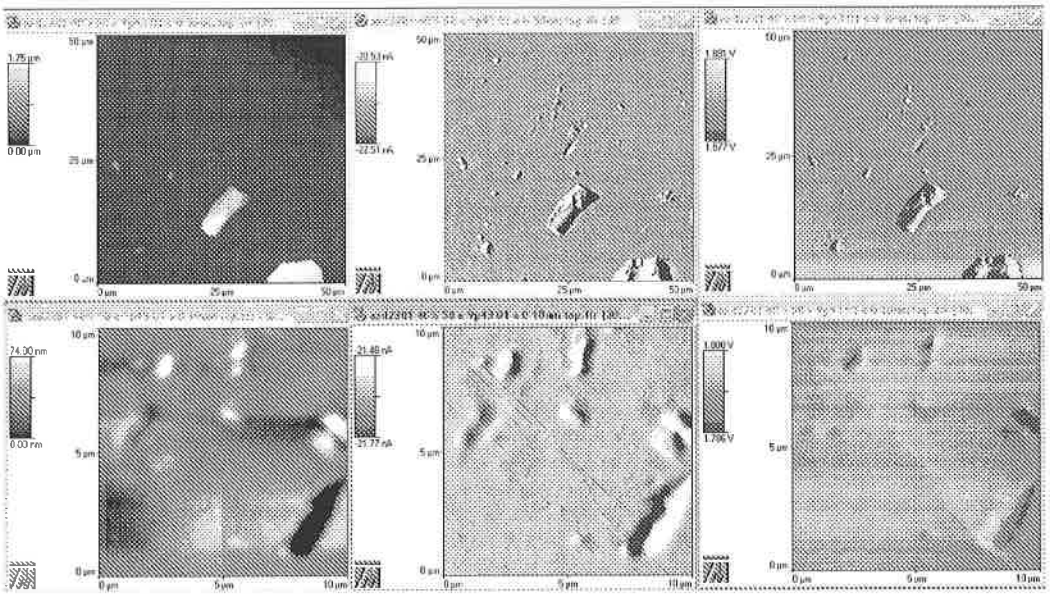


Figure 10

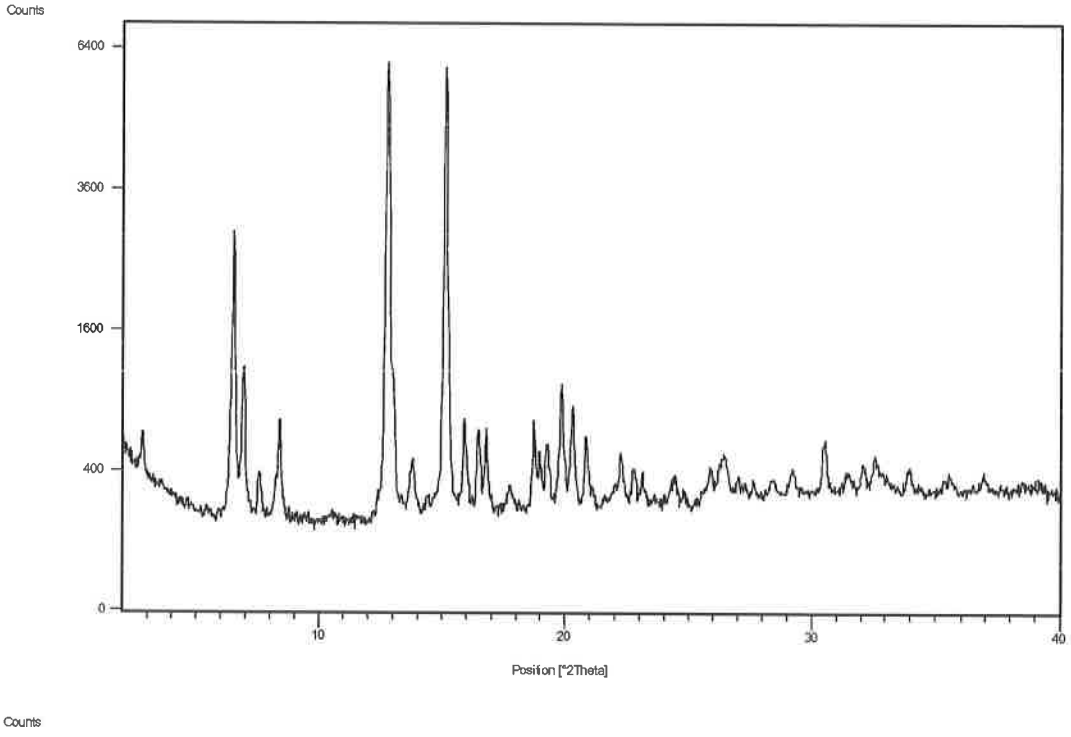

Counts
6400
3600
1600
400
0
10
20
30
40
Position [°2Theta]
Counts

Figure 11

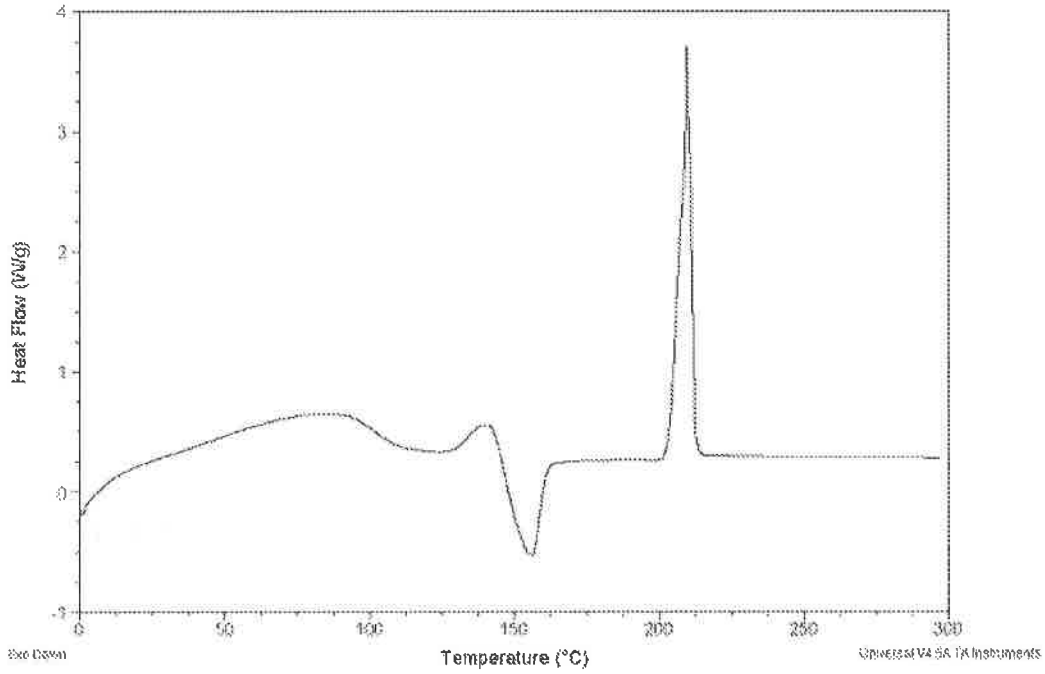

Heat Flow (W/g)
4
3
2
1
0
-1
0
50
100
150
200
250
300
Temperature (°C)
Exo Down
Universal V4.5A TA Instruments

Figure 12

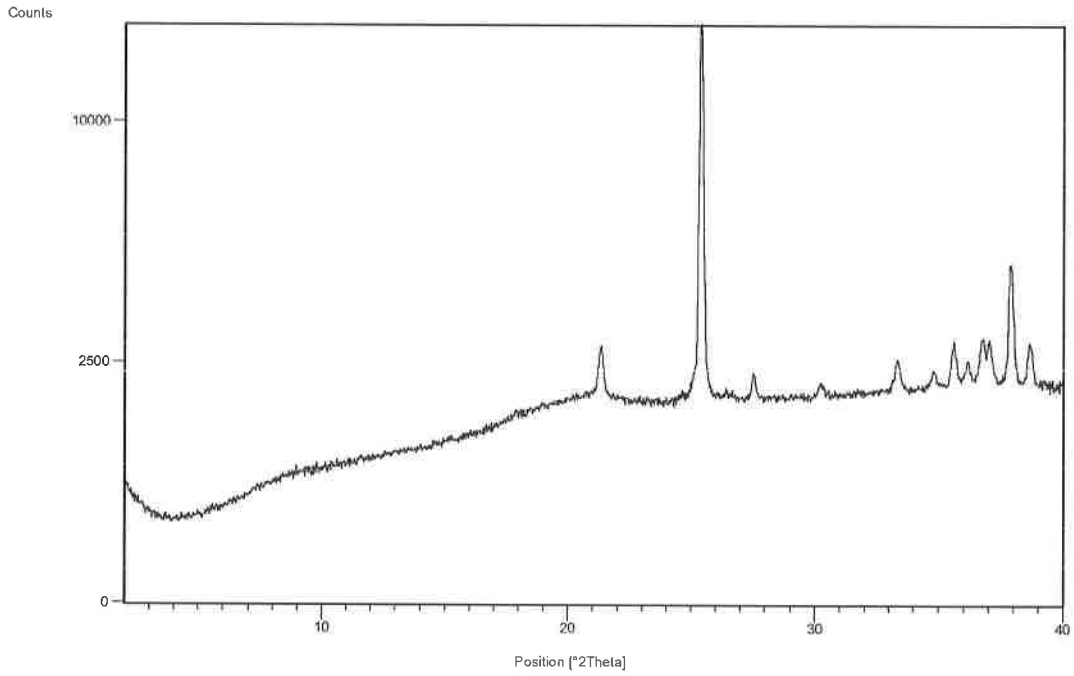


Figure 13

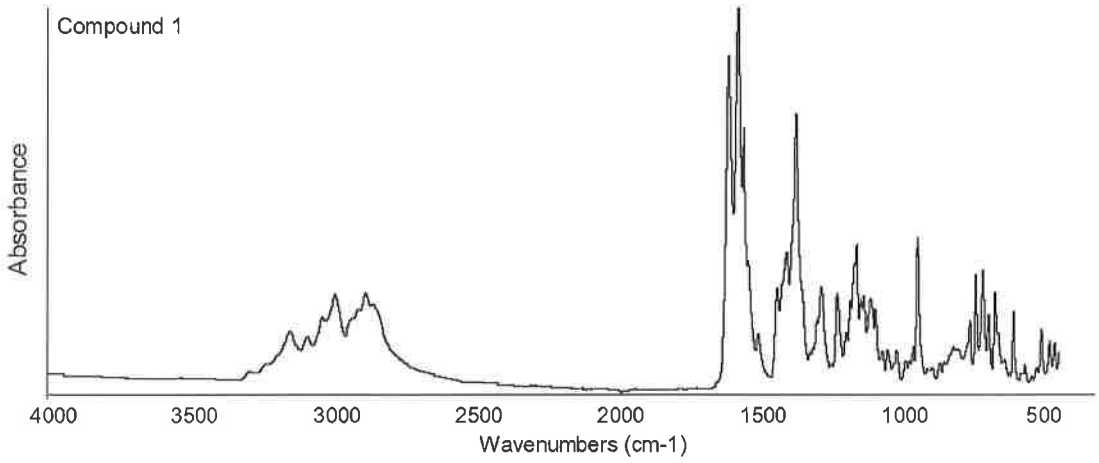

Compound 1
Absorbance
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers (cm-1)

Figure 14

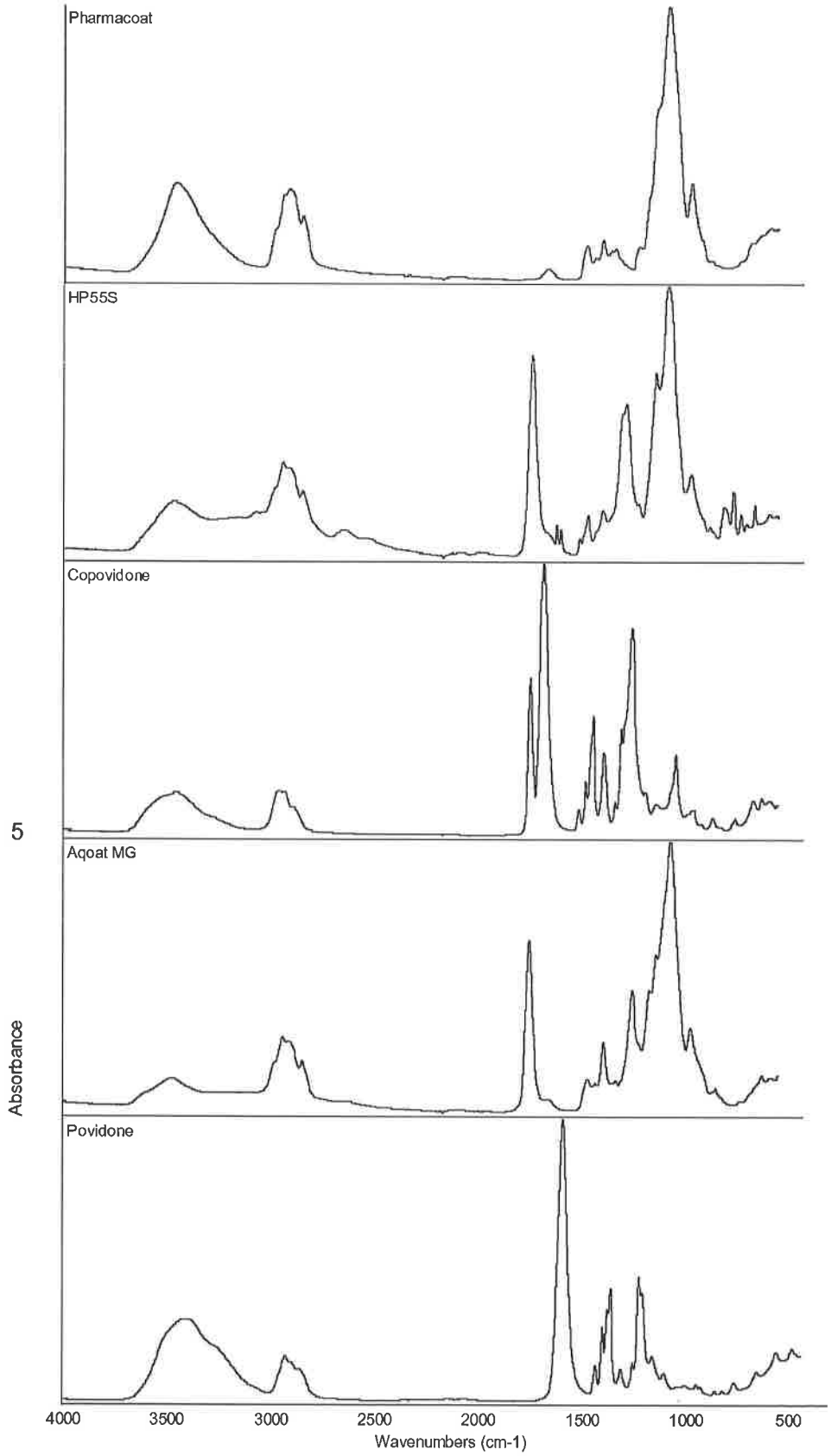
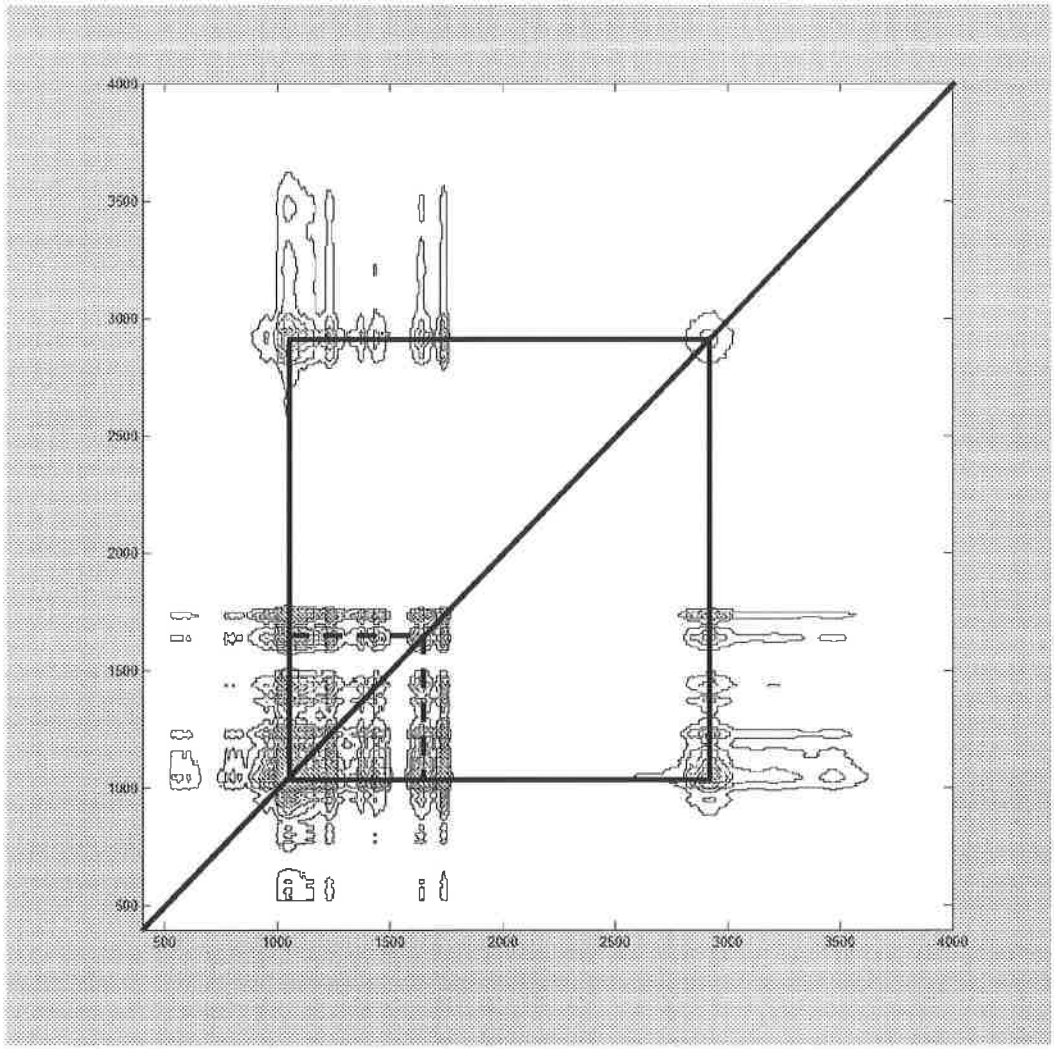

Pharmacoat
HP55S
Copovidone
Aqoat MG
Povidone
Absorbance
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers (cm-1)

Figure 15



Key:

------ Correlation square for cross peak at 1050 cm^{-1}, 1650 cm^{-1}

—— Correlation square for cross peak at 1050 cm^{-1}, 2700 cm^{-1}

Figure 16

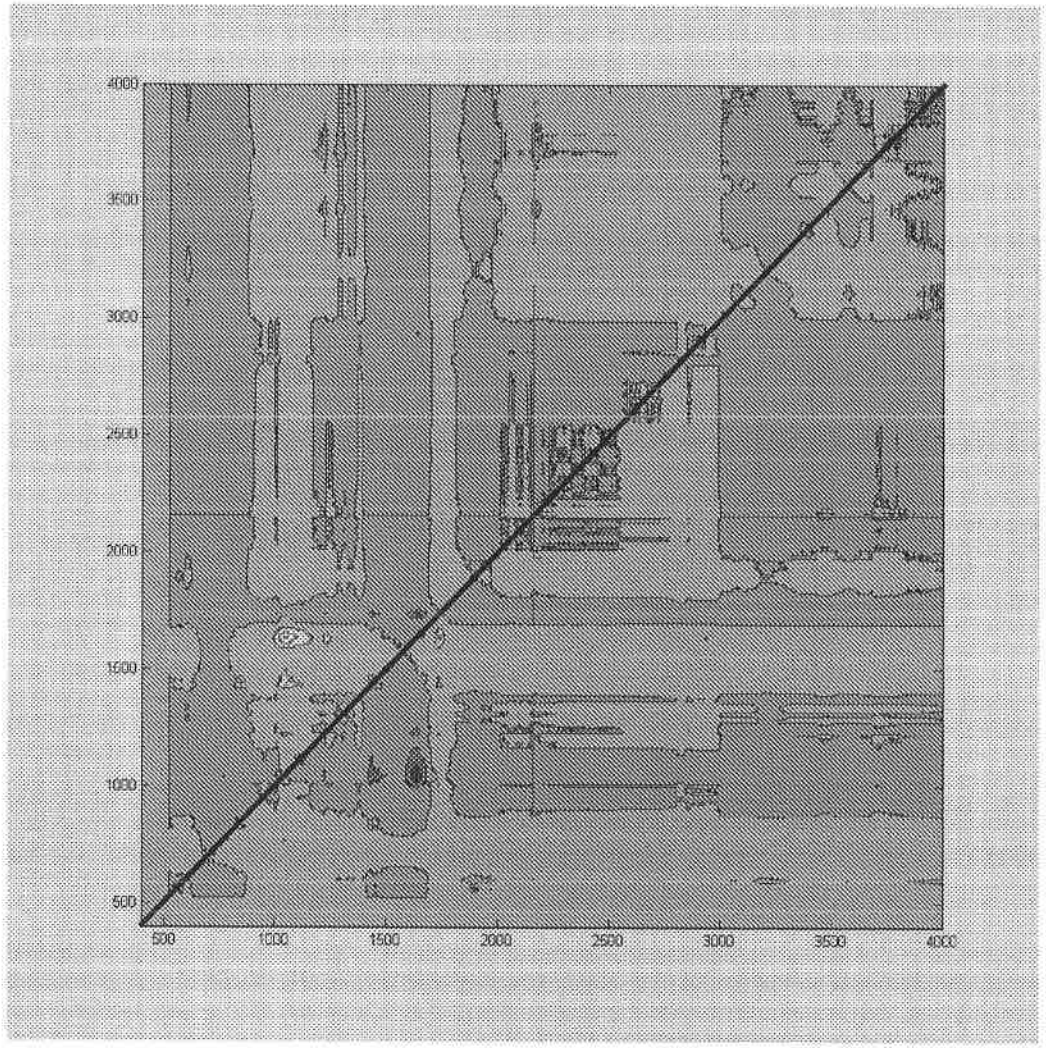

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 17

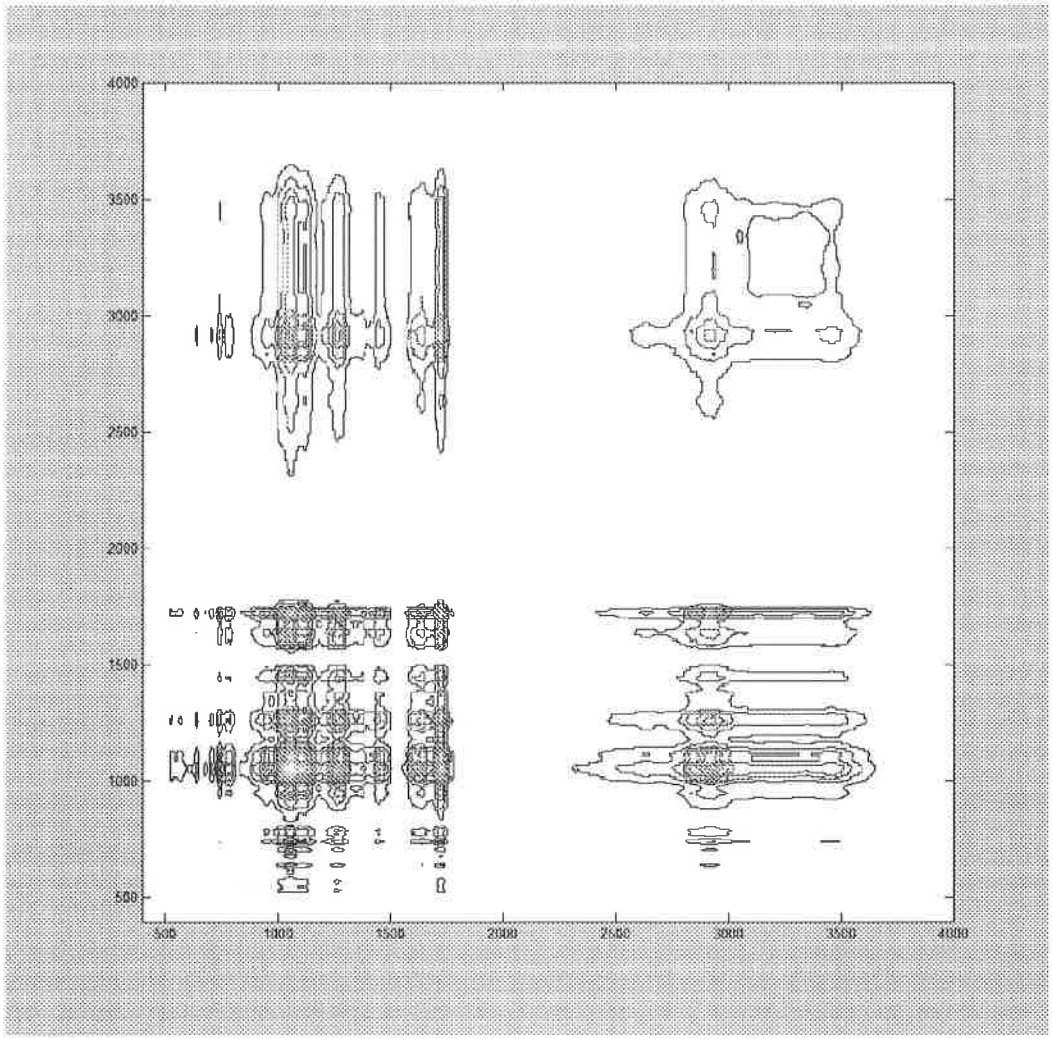

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 18

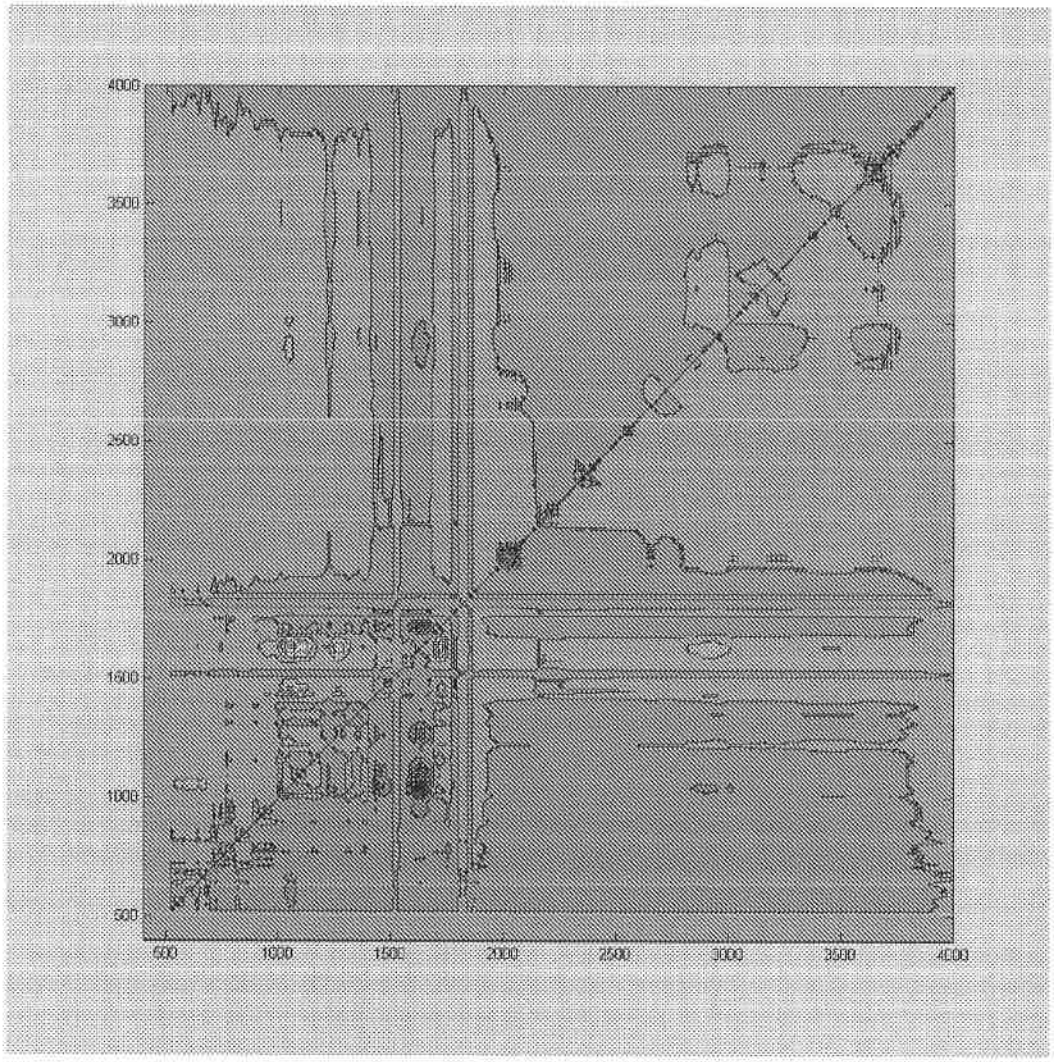

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 19

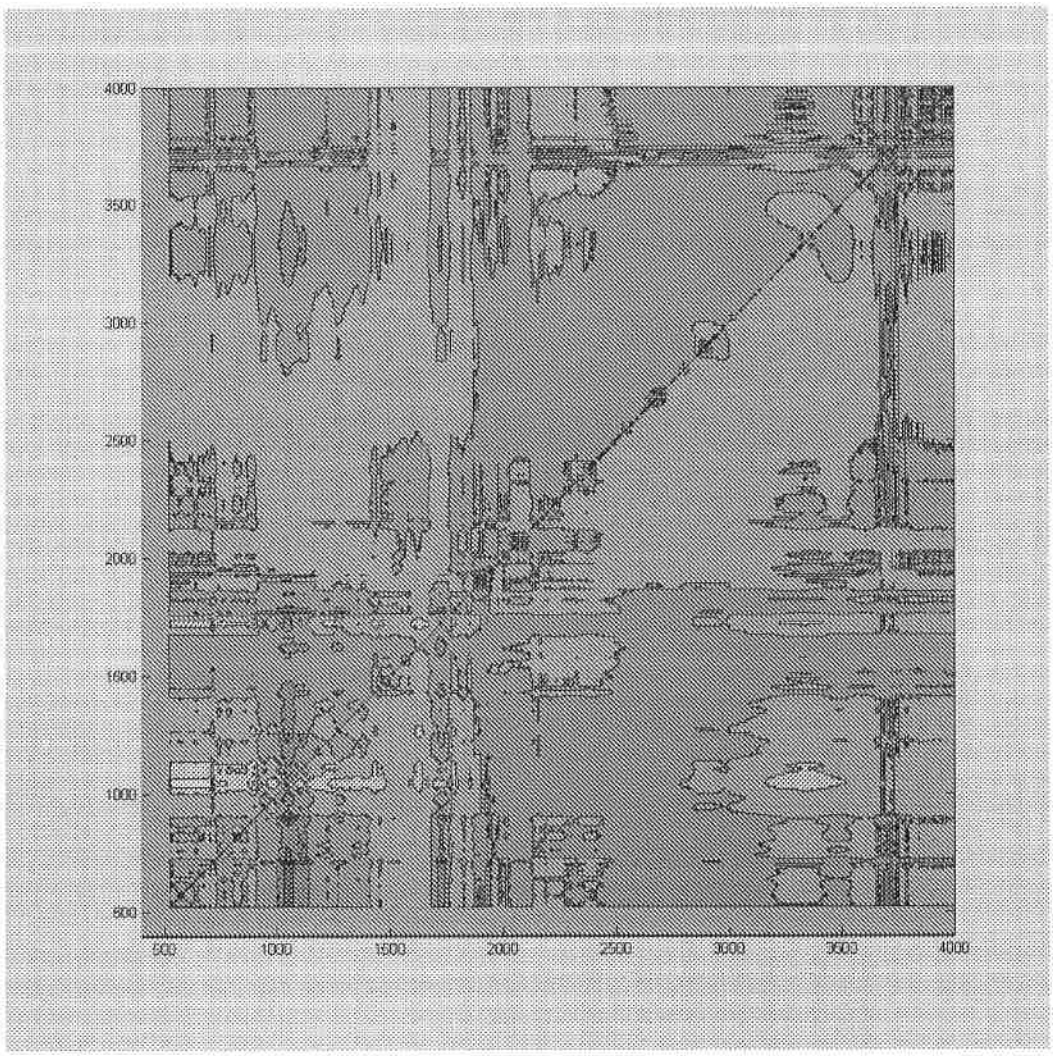

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 20

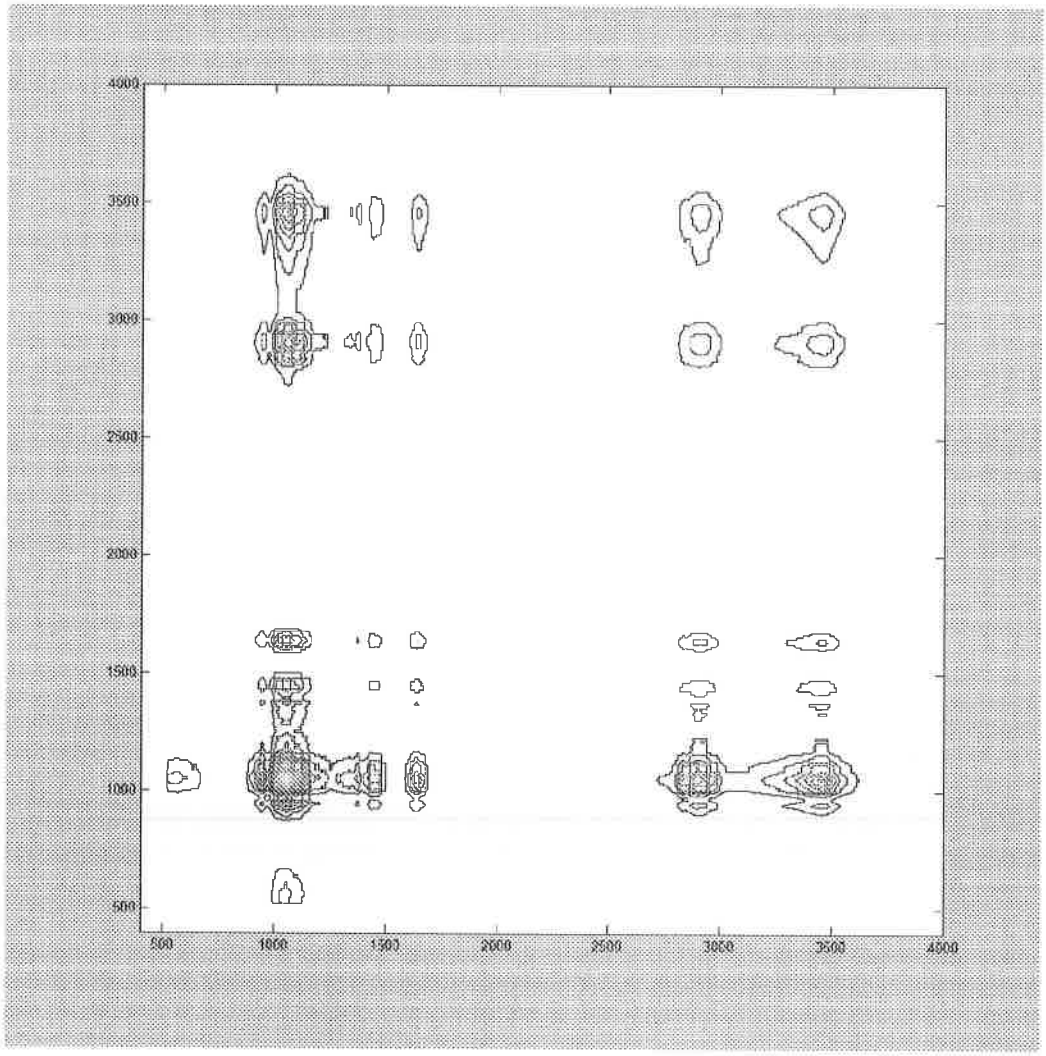

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 21

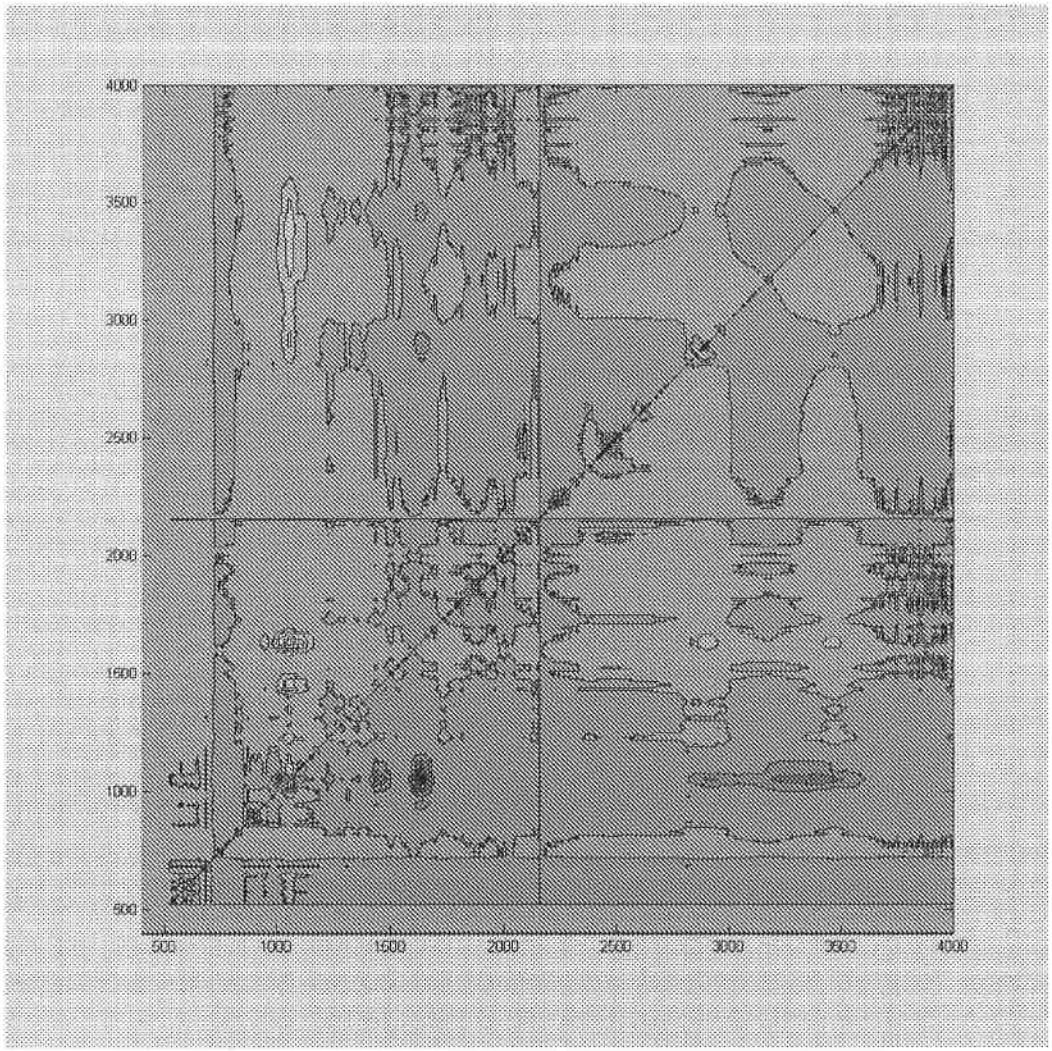

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 22

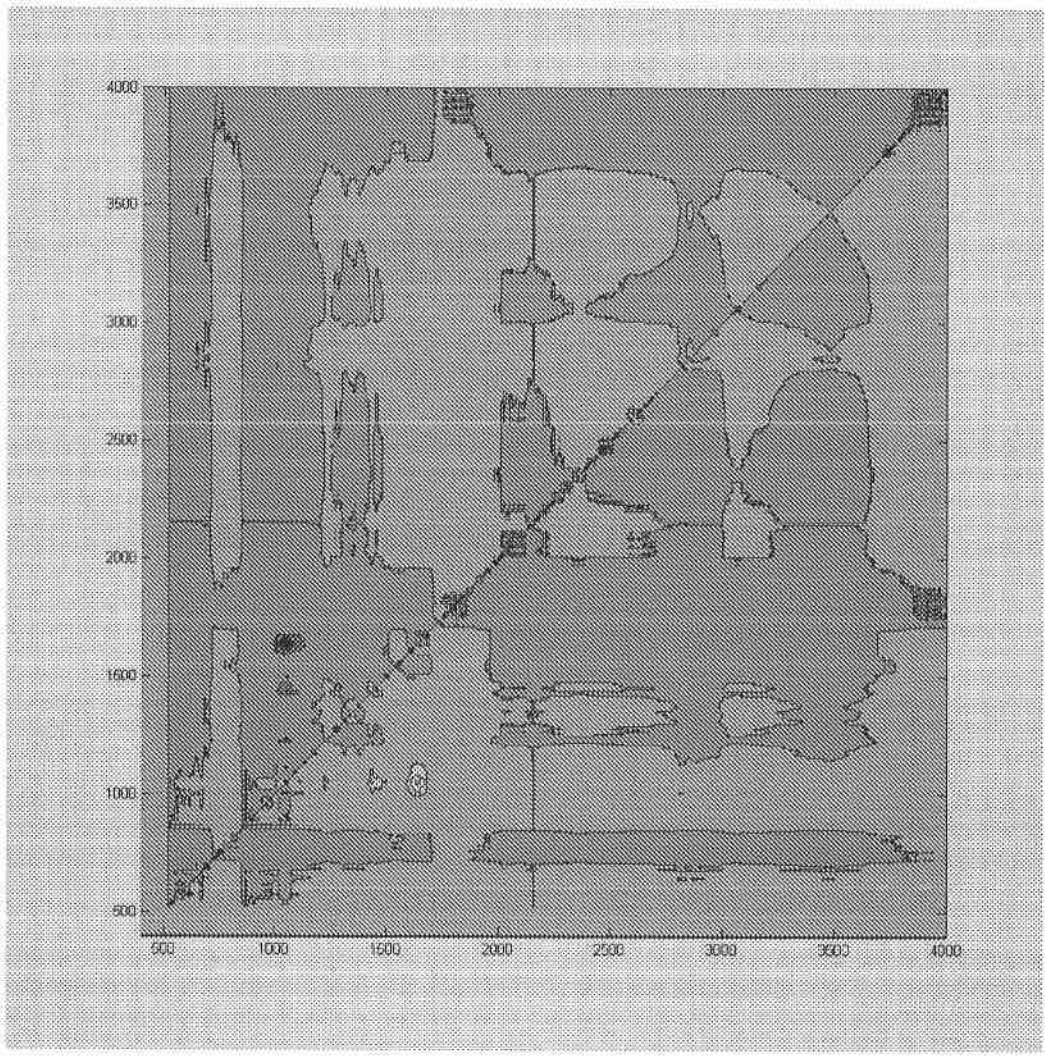

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 23

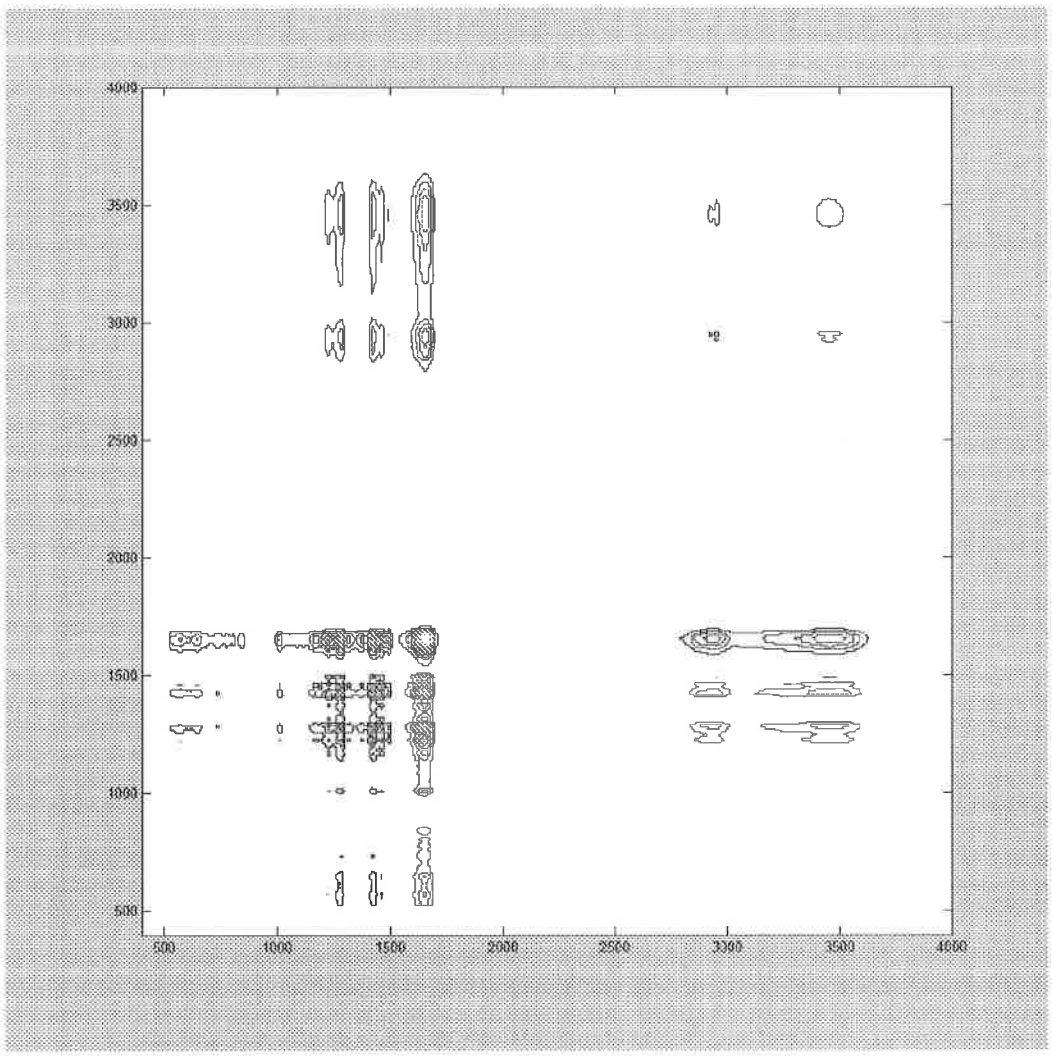

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 24

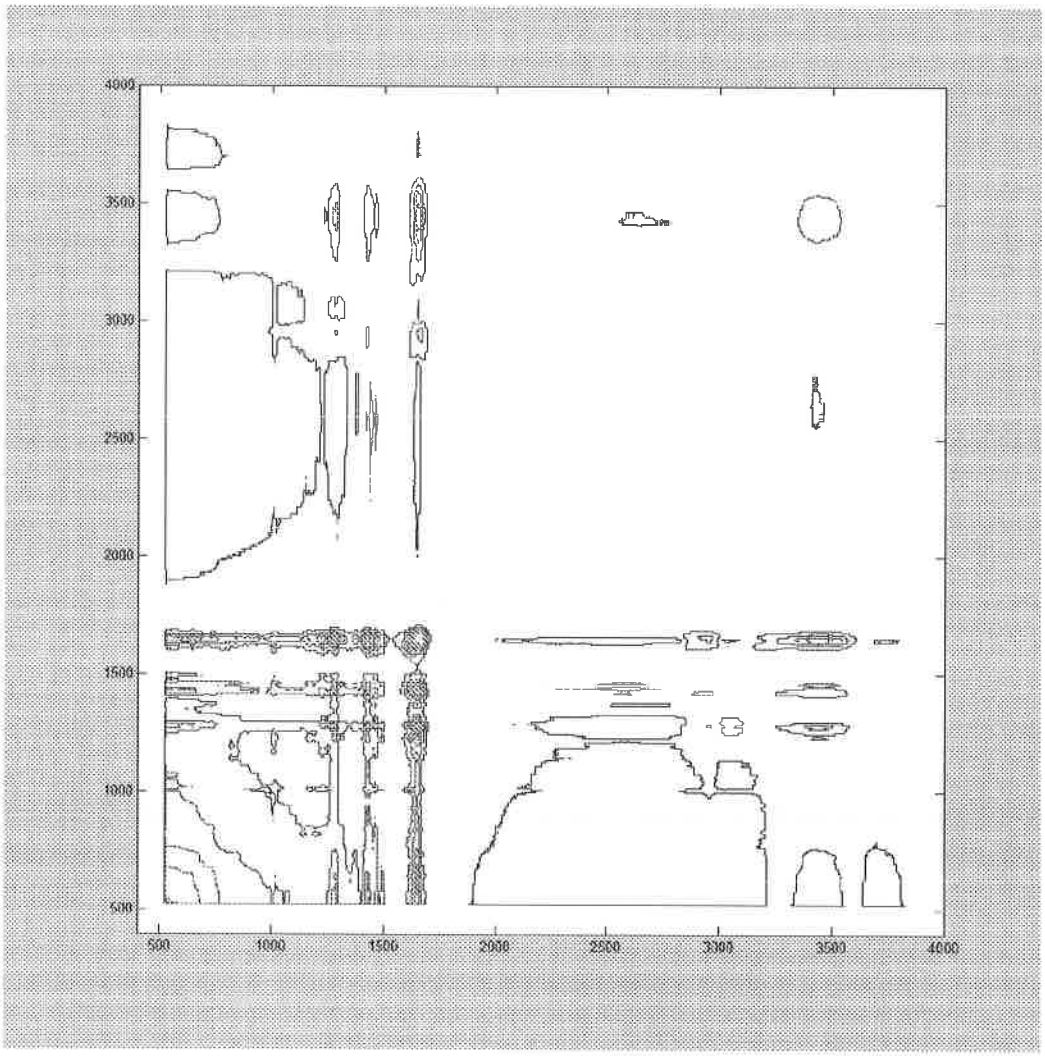

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 25

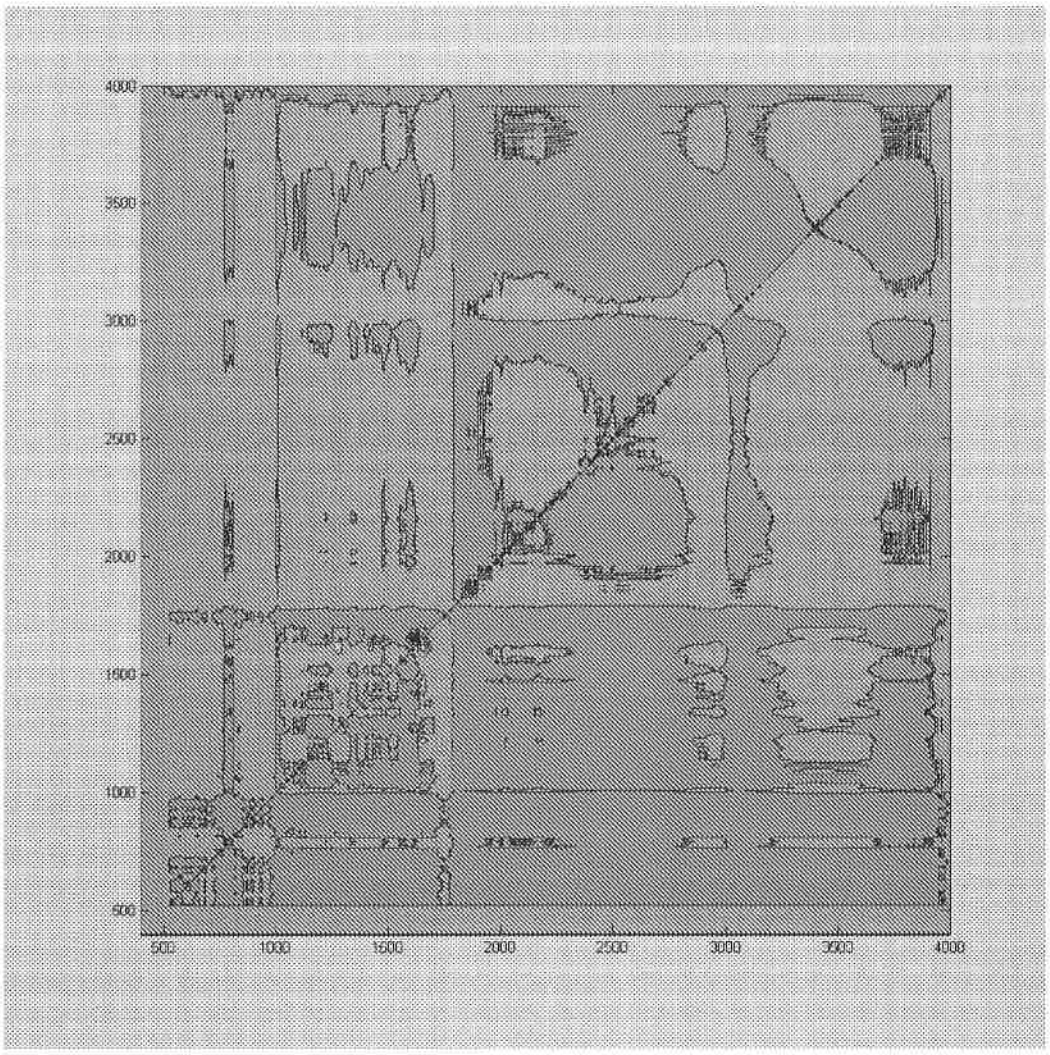

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 26

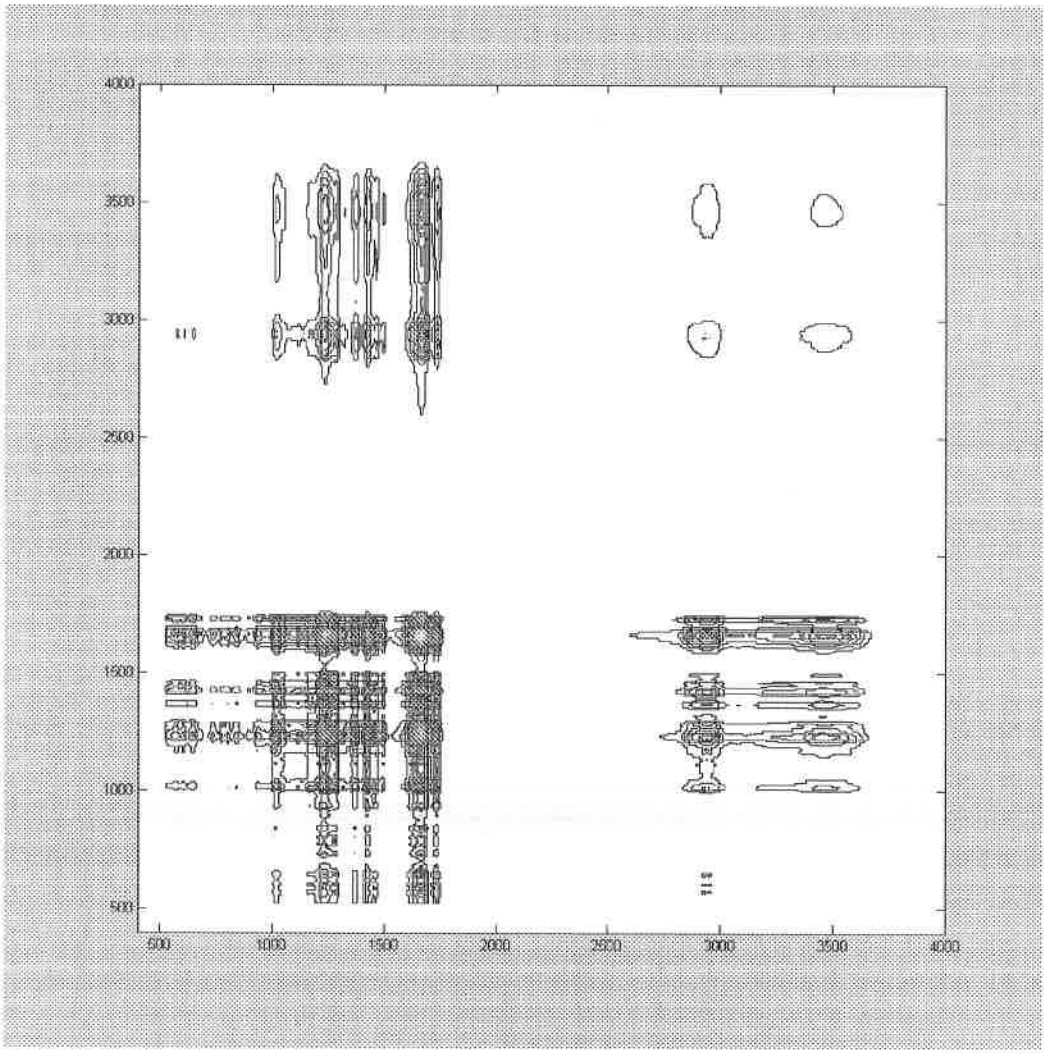

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 27

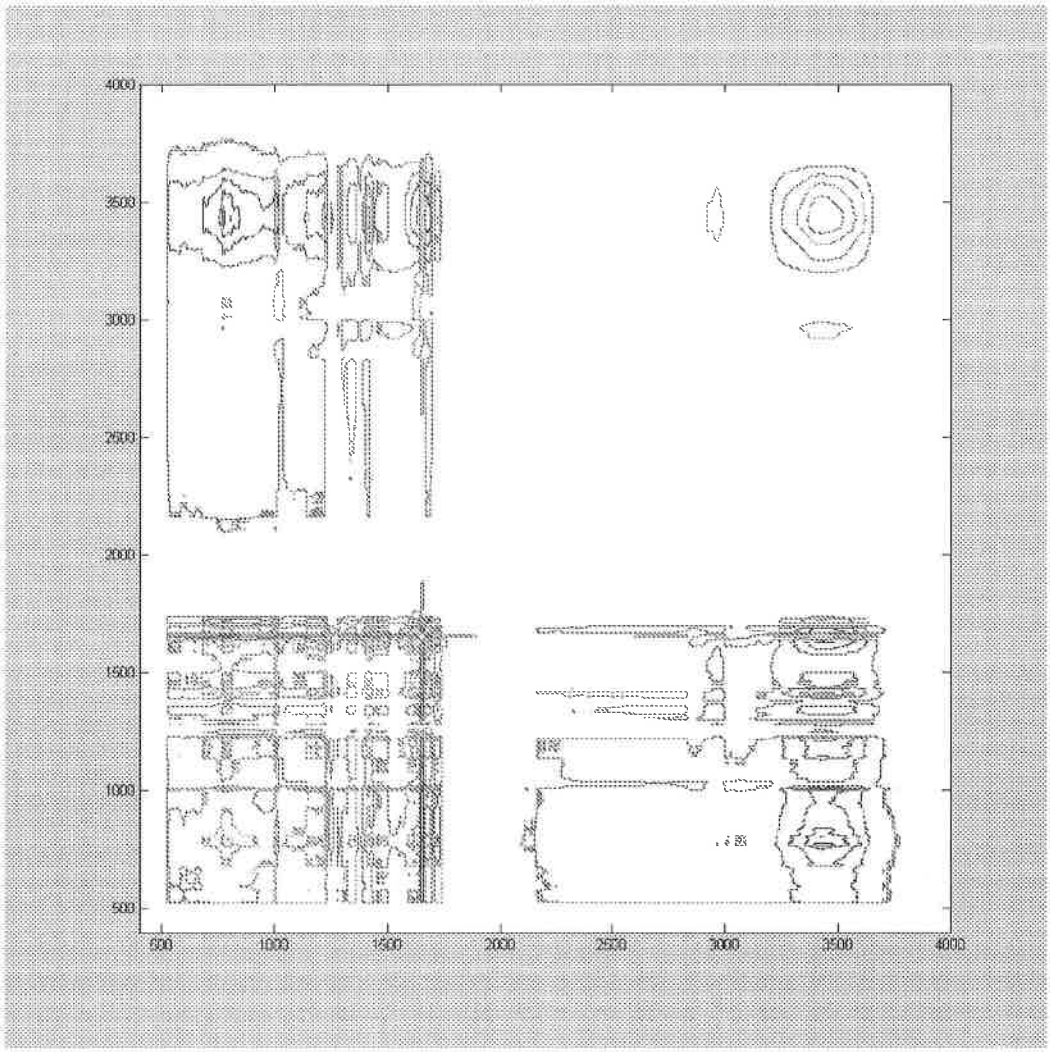

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 28

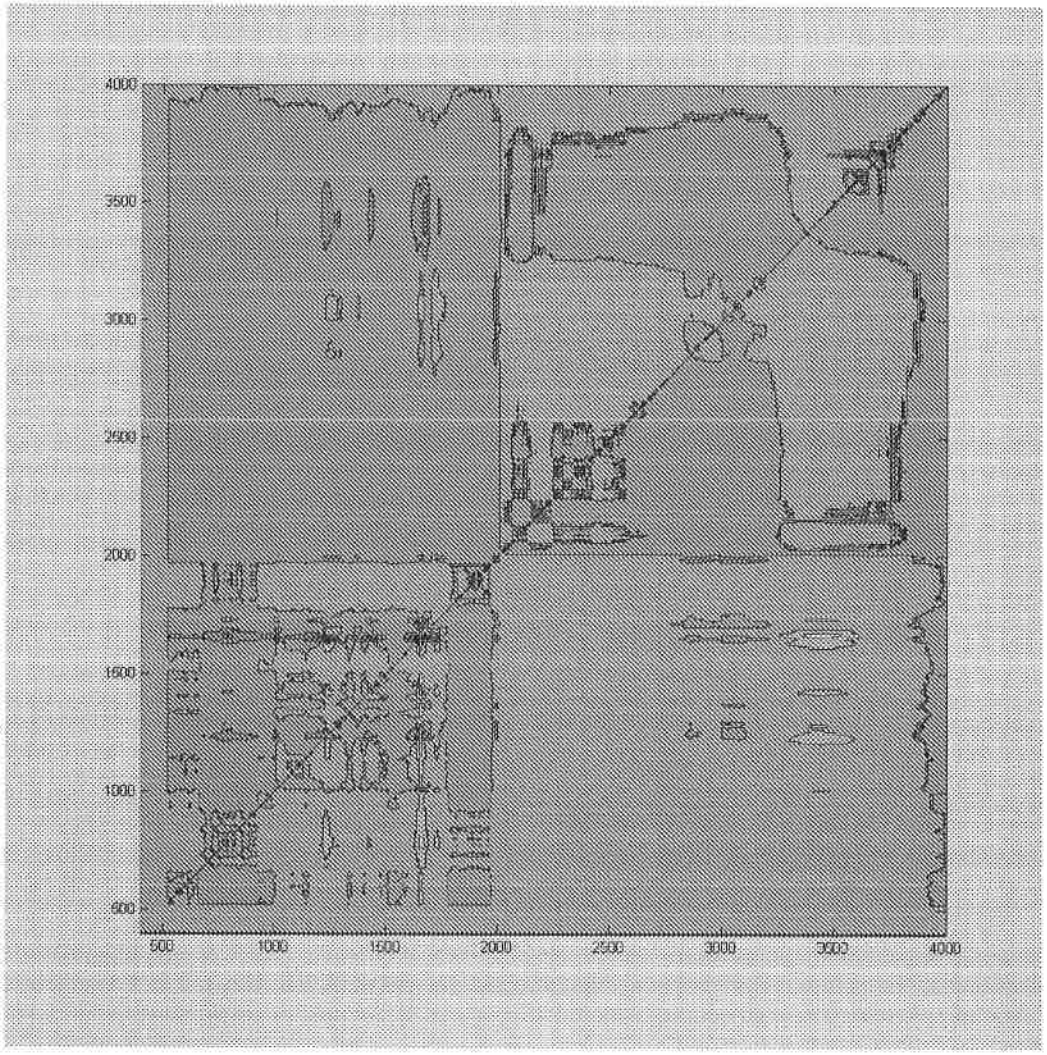

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 29

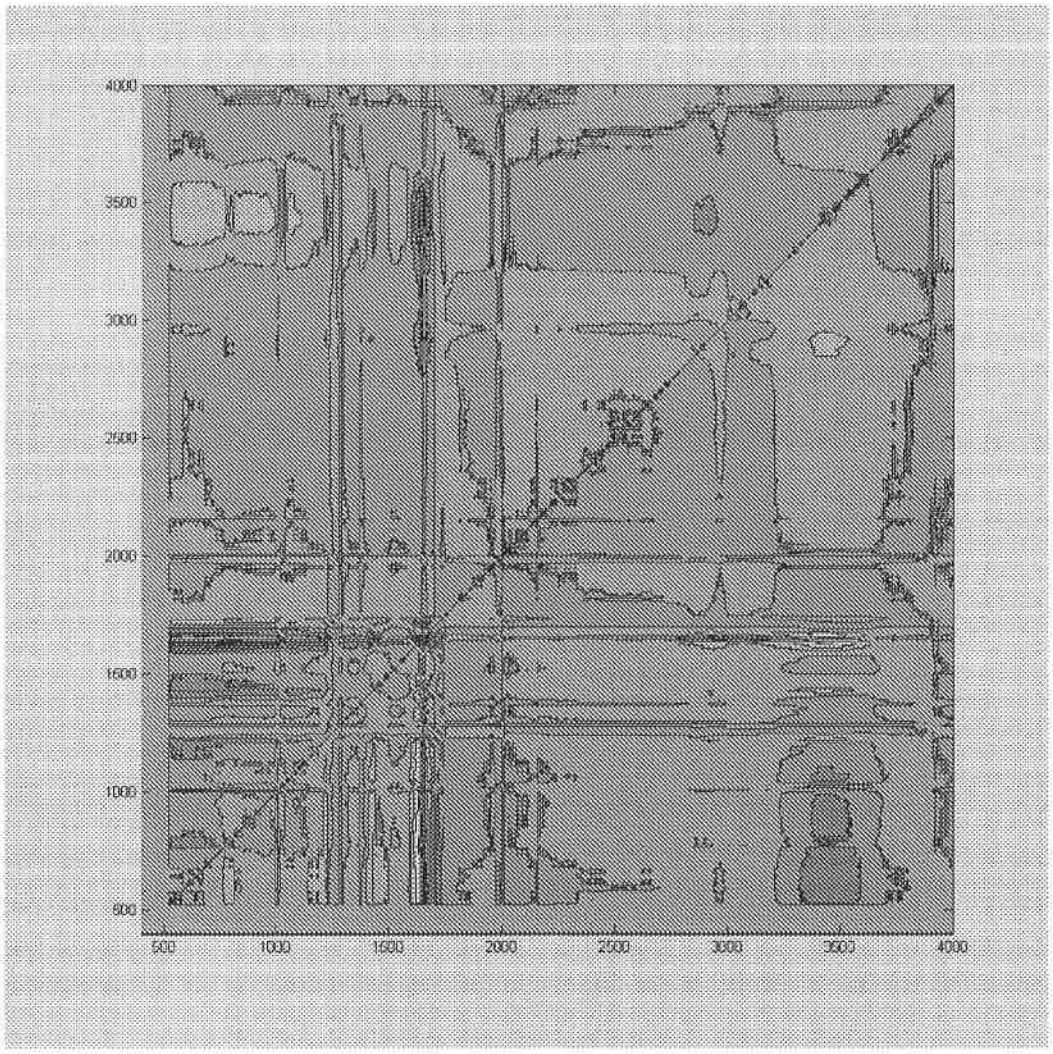
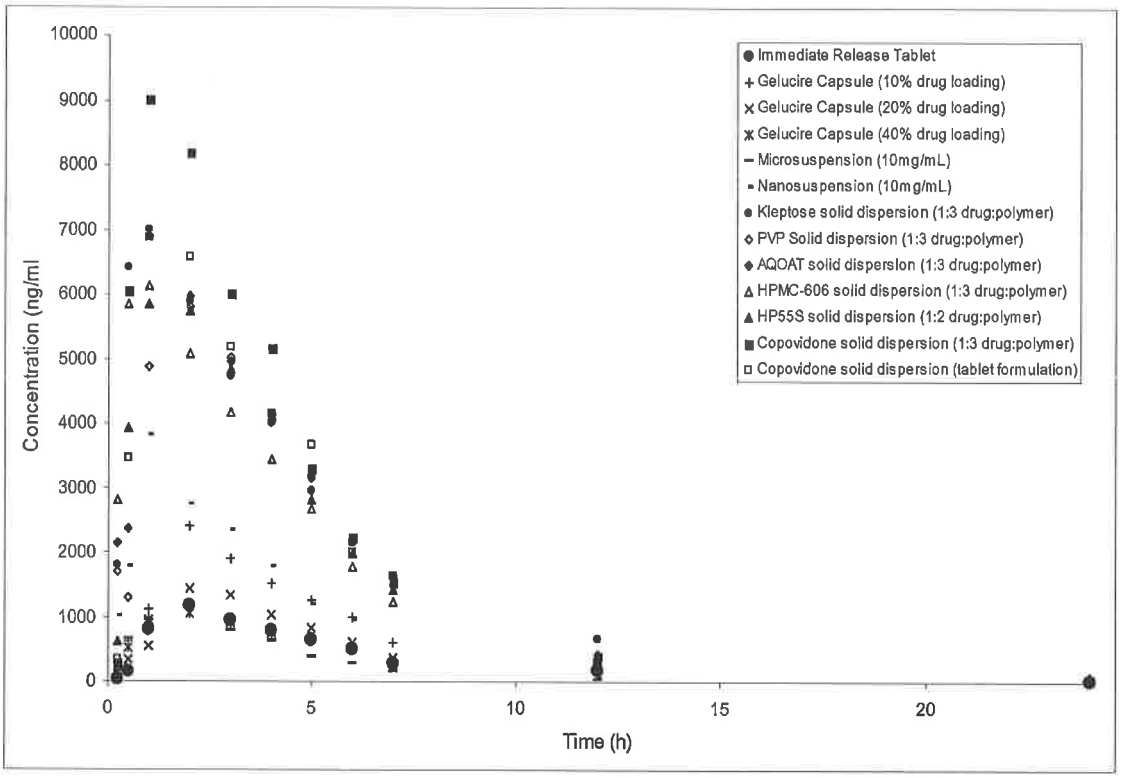

4000
3500
3000
2500
2000
1500
1000
500
500
1000
1500
2000
2500
3000
3500
4000

Figure 30


Concentration (ng/ml)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
Time (h)
Immediate Release Tablet
Gelucire Capsule (10% drug loading)
Gelucire Capsule (20% drug loading)
Gelucire Capsule (40% drug loading)
Microsuspension (10mg/mL)
Nanosuspension (10mg/mL)
Kleptose solid dispersion (1:3 drug:polymer)
PVP Solid dispersion (1:3 drug:polymer)
AQOAT solid dispersion (1:3 drug:polymer)
HPMC-606 solid dispersion (1:3 drug:polymer)
HP55S solid dispersion (1:2 drug:polymer)
Copovidone solid dispersion (1:3 drug:polymer)
Copovidone solid dispersion (tablet formulation)