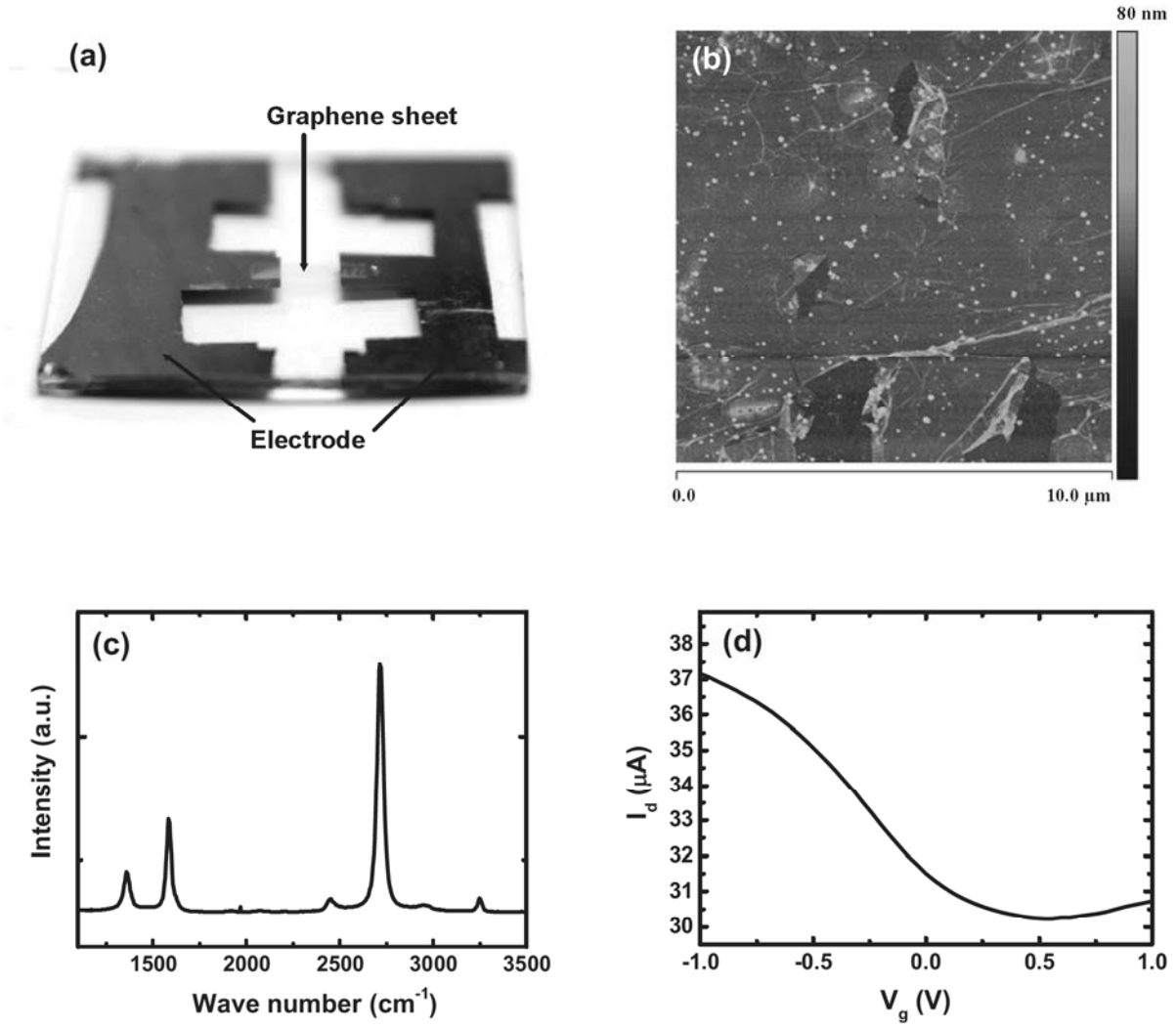
(a)
Graphene sheet
Electrode
(b)
80 nm
0.0
10.0 μm
(c)
Intensity (a.u.)
1500
2000
2500
3000
3500
Wave number (cm-1)
(d)
Id (μA)
38
37
36
35
34
33
32
31
30
-1.0
-0.5
0.0
0.5
1.0
Vg (V)
(e)
Source
Solution to be detected
Electrode
PDMS Block
Quartz
Drain
Channel
Gate
Electrode
(f)

Figure 1

~~Figure 1~~

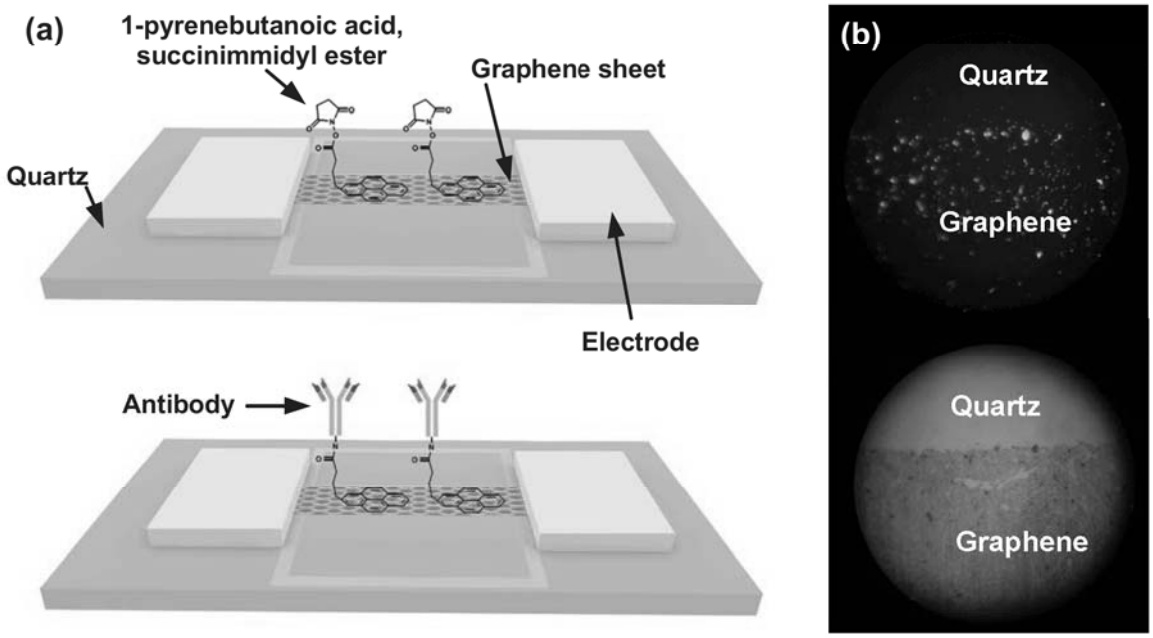

Figure 2