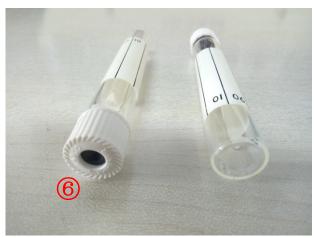
Schematic drawing:

- **a.** Putting syringe plunger out of the syringe and placing the leaves inside syringe (about 20 ml).
- **b.** Connecting device interfaces:
- Syringe with sample (2 connect with 1)
- Other syringe (no syringe plunger) with soda-lime and (3 connect with 1)
- syringe needle (4 connect with 5)
- **c.** Flushing the syringe barrel:
- 2 communicate with 3 and seal 5, 3 connect with other syringe with soda-lime, flushed with CO₂-free air 5 times by actuating the syringe plunger
- **d.** Collecting leaf dark-respired CO₂:
- 2 communicate with 4 and 5 communicate with
- 6, CO₂ in the gas sample bag.CO₂ concentration in the gas sample bag is greater than 2000 ppm.
- **e.** Backing to LAB and measuring CO₂ by an Isotope mass spectrometer







A. Air sampling equipment



B. Putting the leaves into the syringe



C. Flushing the syringe barrel





D. Accumulating CO₂ in the syringe barrel E. Collecting leaf dark-respired CO₂ F. Backing to LAB and measuring CO₂



