BG5 Function

Connect

Function A

Function B

Function C
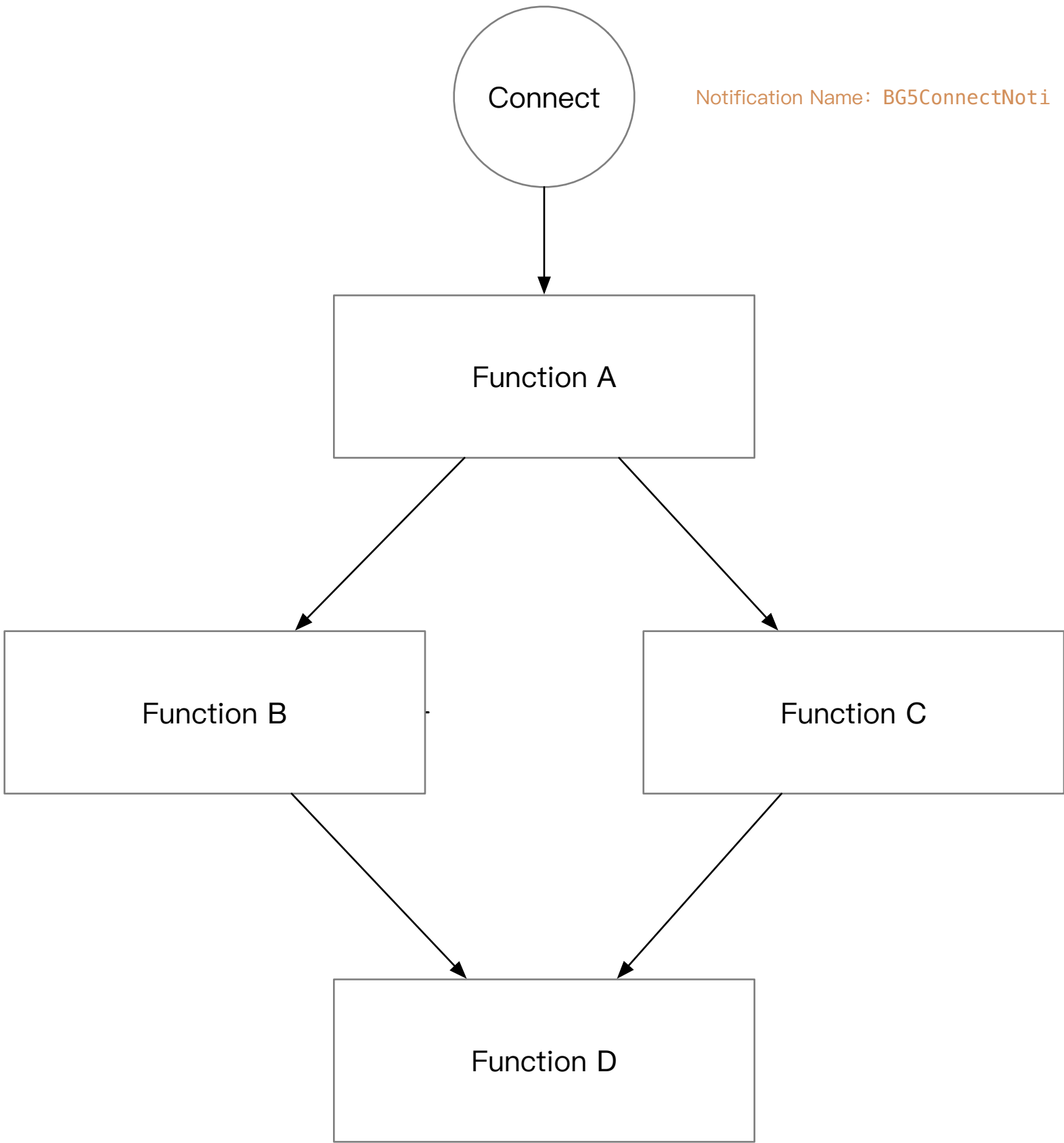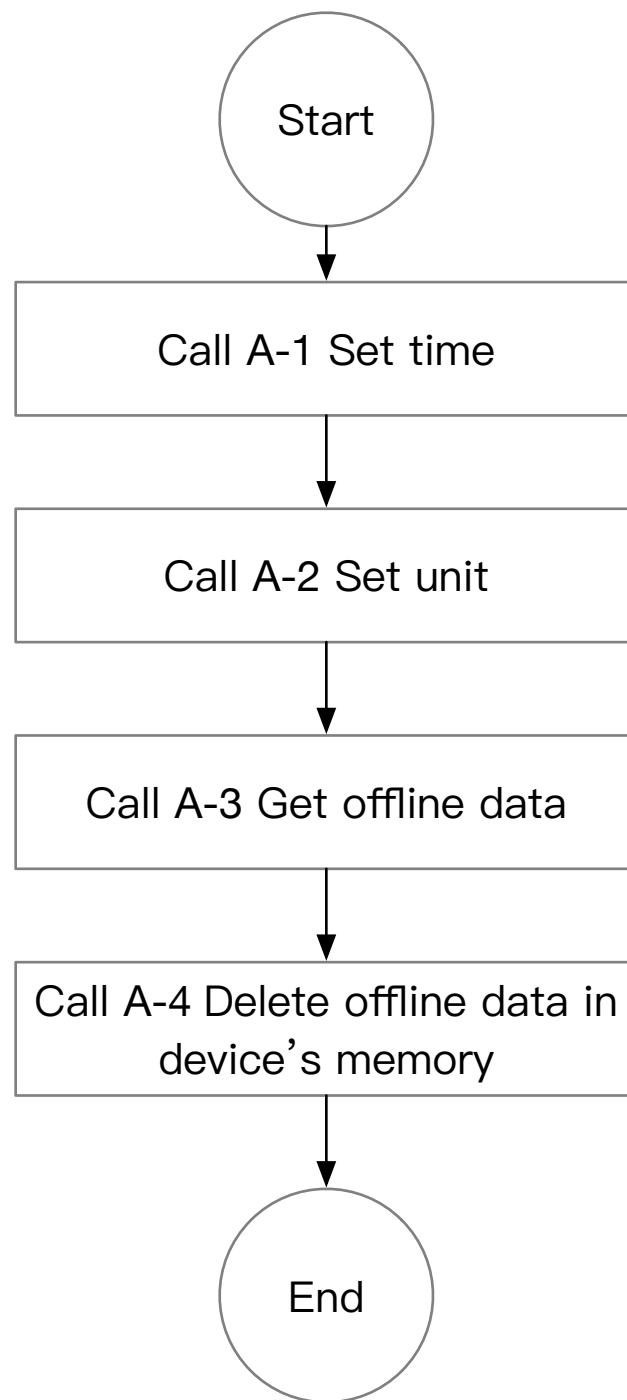
Function D

Note:

1、API call is parallel call and sequential execution.

2、Function B is for 1000l blood strips; Function C is for EGS2003 blood strips.

3、Function D should be called after Function B or C.

Function A: Set time, unit and sync offline data

```
                        ┌─────────┐
                        │  Start  │
                        └────┬────┘
                             ↓
              ┌──────────────────────────────┐
              │      Call A-1 Set time        │
              └──────────────┬───────────────┘
                             ↓
              ┌──────────────────────────────┐
              │      Call A-2 Set unit        │
              └──────────────┬───────────────┘
                             ↓
              ┌──────────────────────────────┐
              │   Call A-3 Get offline data   │
              └──────────────┬───────────────┘
                             ↓
              ┌──────────────────────────────┐
              │ Call A-4 Delete offline data in│
              │        device's memory        │
              └──────────────┬───────────────┘
                             ↓
                        ┌─────────┐
                        │   End   │
                        └─────────┘
```

```
A-1
-(void)commandBGSetTime:(DisposeBGSetTime)disposeBGSetTime
    DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
A-2
-(void)commandBGSetUnit:(BGUnit )unitState
    DisposeSetUnitResult:(DisposeBGSetUnit)disposeBGSetUnitResult
    DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
A-3
-(void)commandTransferMemorryData:(DisposeBGDataCount)disposeBGDataCount
            DisposeBGHistoryData:(DisposeBGHistoryData)disposeBGHistoryData
              DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
A-4
-(void)commandDeleteMemorryData:(DisposeBGDeleteData)DisposeBGDeleteData
            DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
```
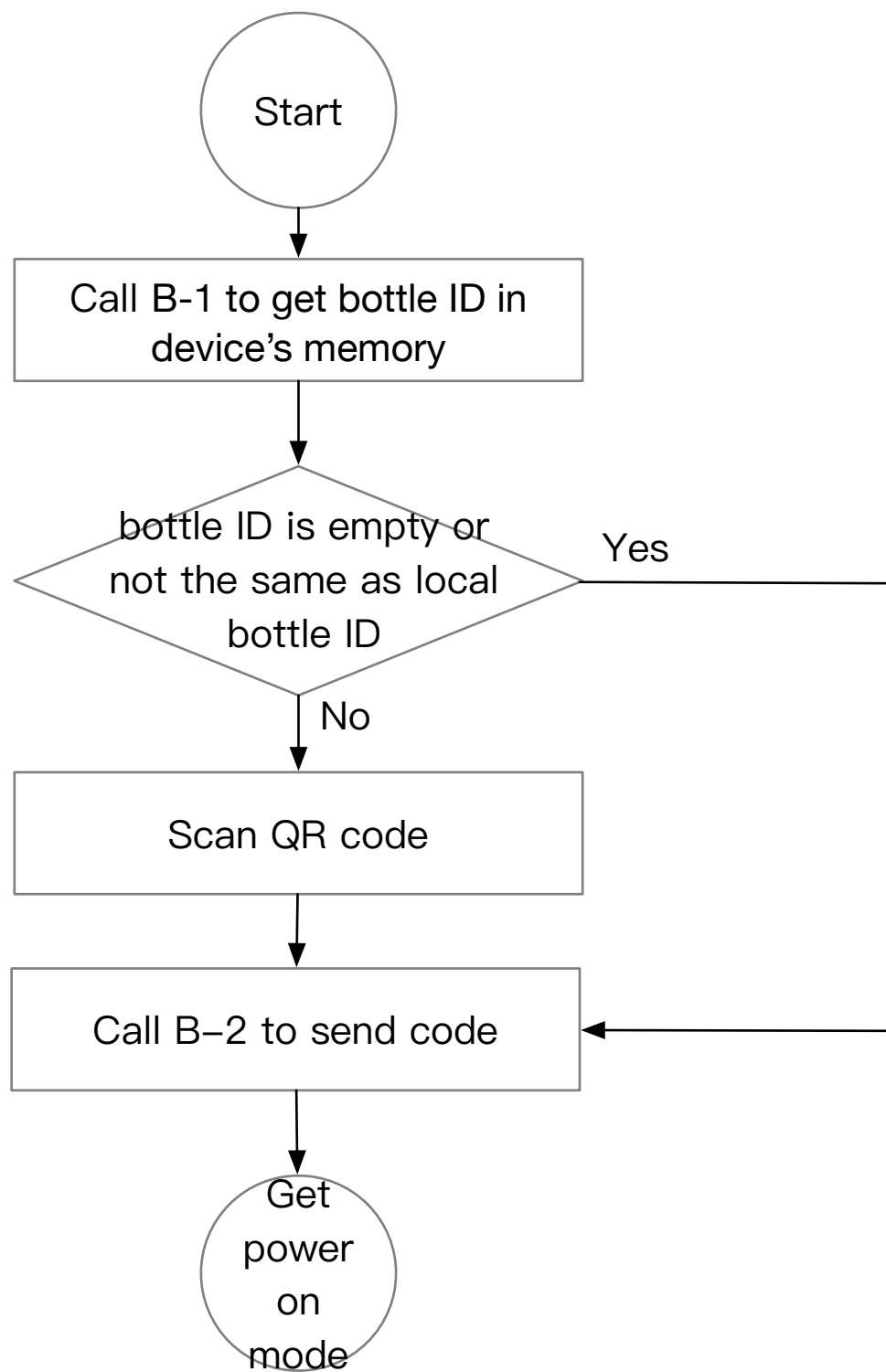
Note:

A-1 must be called before using the offline measurement, otherwise the time of offline data may be incorrect.
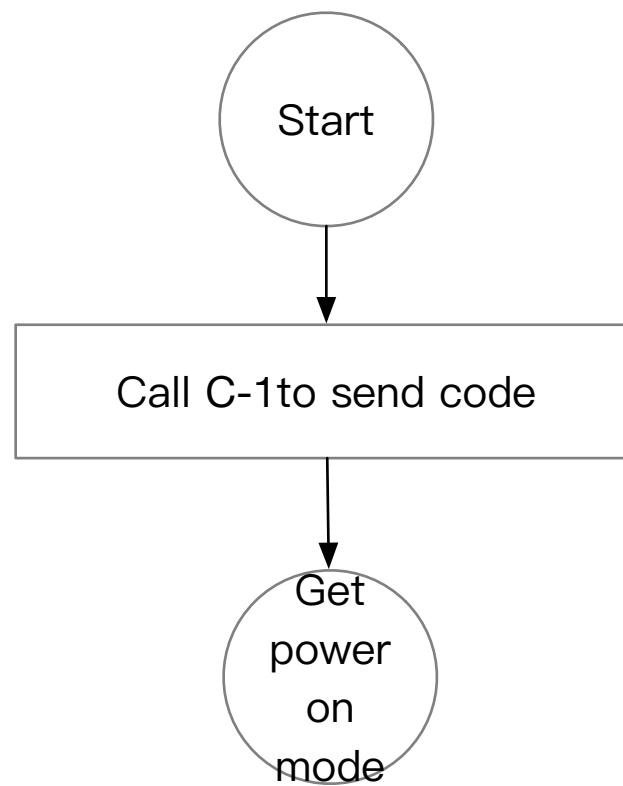
Function B: Sending code flow for 1000I strips

```
                    ┌─────────┐
                    │  Start  │
                    └─────────┘
                         │
                         ▼
              ┌────────────────────────┐
              │ Call B-1 to get bottle │
              │   ID in device's       │
              │   memory               │
              └────────────────────────┘
                         │
                         ▼
                  ◇ bottle ID is      ◇      Yes
                    empty or not  ─────────────────┐
                    the same as                    │
                    local bottle ID                │
                         │ No                       │
                         ▼                          │
              ┌────────────────────────┐            │
              │     Scan QR code       │            │
              └────────────────────────┘            │
                         │                          │
                         ▼                          │
              ┌────────────────────────┐            │
              │  Call B-2 to send code │◄───────────┘
              └────────────────────────┘
                         │
                         ▼
                    ┌─────────┐
                    │   Get   │
                    │  power  │
                    │   on    │
                    │  mode   │
                    └─────────┘
```

```
B-1
-(void)commandBGGetBottleID:(DisposeBGBottleID)disposeBGBottleID
      DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
B-2
-(void)commandSendBGCodeWithMeasureType:(BGMeasureMode)testType
                      CodeType:(BGCodeMode)codeType
                    CodeString:(NSString*)encodeString
                     validDate:(NSDate*)date
                     remainNum:(NSNumber*)num
          DisposeBGSendCodeBlock:(DisposeBGSendCodeBlock)disposeBGSendCodeBlock
            DisposeBGStartModel:(DisposeBGStartModel)disposeBGStartModel
            DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
```

Function C：Sending code flow for EGS2003 strips

```
     ┌─────────┐
     │  Start  │
     └────┬────┘
          │
          ▼
┌───────────────────────────┐
│   Call C-1to send code     │
└────────────┬──────────────┘
             │
             ▼
       ┌──────────┐
       │   Get    │
       │  power   │
       │   on     │
       │  mode    │
       └──────────┘
```

C-1
```
-(void)commandSendBGCodeWithMeasureType:(BGMeasureMode)testType
                      CodeType:(BGCodeMode)codeType
                    CodeString:(NSString*)encodeString
                     validDate:(NSDate*)date
                     remainNum:(NSNumber*)num
            DisposeBGSendCodeBlock:(DisposeBGSendCodeBlock)disposeBGSendCodeBlock
              DisposeBGStartModel:(DisposeBGStartModel)disposeBGStartModel
              DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
```
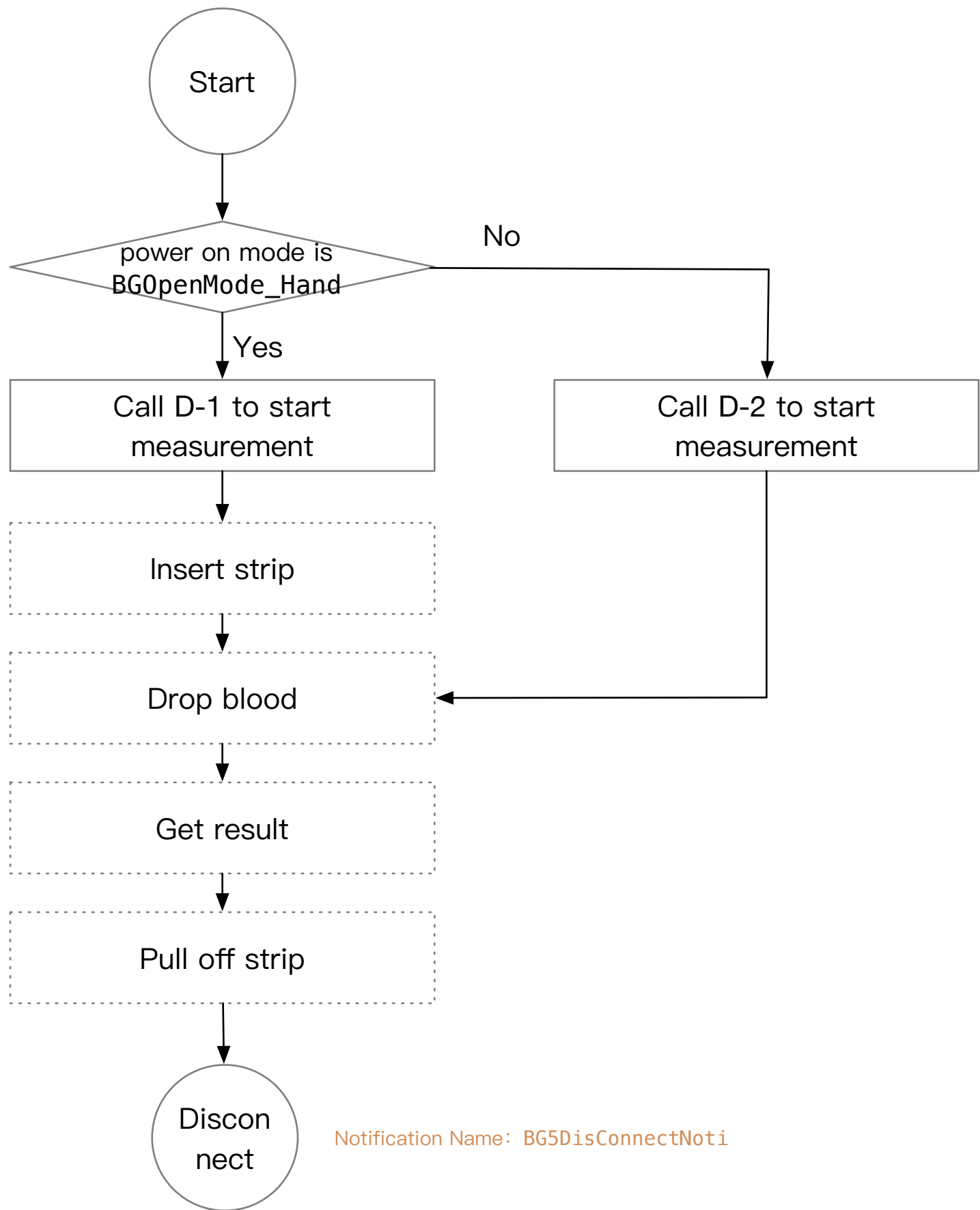
Function D：Online measurement flow

```
           ┌─────────┐
           │  Start  │
           └─────────┘
                │
                ▼
         ╱──────────────╲                No
        ╱ power on mode is ╲──────────────────────┐
        ╲ BGOpenMode_Hand  ╱                      │
         ╲──────────────╱                         │
                │ Yes                             │
                ▼                                 ▼
      ┌──────────────────┐            ┌──────────────────┐
      │ Call D-1 to start │            │ Call D-2 to start │
      │   measurement     │            │   measurement     │
      └──────────────────┘            └──────────────────┘
                │                                 │
                ▼                                 │
      ┌ ─ ─ ─ ─ ─ ─ ─ ─ ┐                         │
      │   Insert strip    │                        │
      └ ─ ─ ─ ─ ─ ─ ─ ─ ┘                         │
                │                                 │
                ▼                                 │
      ┌ ─ ─ ─ ─ ─ ─ ─ ─ ┐                         │
      │    Drop blood     │◀────────────────────────┘
      └ ─ ─ ─ ─ ─ ─ ─ ─ ┘
                │
                ▼
      ┌ ─ ─ ─ ─ ─ ─ ─ ─ ┐
      │    Get result     │
      └ ─ ─ ─ ─ ─ ─ ─ ─ ┘
                │
                ▼
      ┌ ─ ─ ─ ─ ─ ─ ─ ─ ┐
      │   Pull off strip  │
      └ ─ ─ ─ ─ ─ ─ ─ ─ ┘
                │
                ▼
           ┌─────────┐
           │ Discon  │     Notification Name: BG5DisConnectNoti
           │  nect   │
           └─────────┘
```

D-1
```
-(void)commandCreateBGtestModel:(BGMeasureMode)testMode
        DisposeBGStripInBlock:(DisposeBGStripInBlock)disposeBGStripInBlock
          DisposeBGBloodBlock:(DisposeBGBloodBlock)disposeBGBloodBlock
         DisposeBGResultBlock:(DisposeBGResultBlock)disposeBGResultBlock
          DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
```
D-2
```
-(void)commandCreateBGtestStripInBlock:(DisposeBGStripInBlock)disposeBGStripInBlock
              DisposeBGBloodBlock:(DisposeBGBloodBlock)disposeBGBloodBlock
             DisposeBGResultBlock:(DisposeBGResultBlock)disposeBGResultBlock
              DisposeBGErrorBlock:(DisposeBGErrorBlock)disposeBGErrorBlock;
```