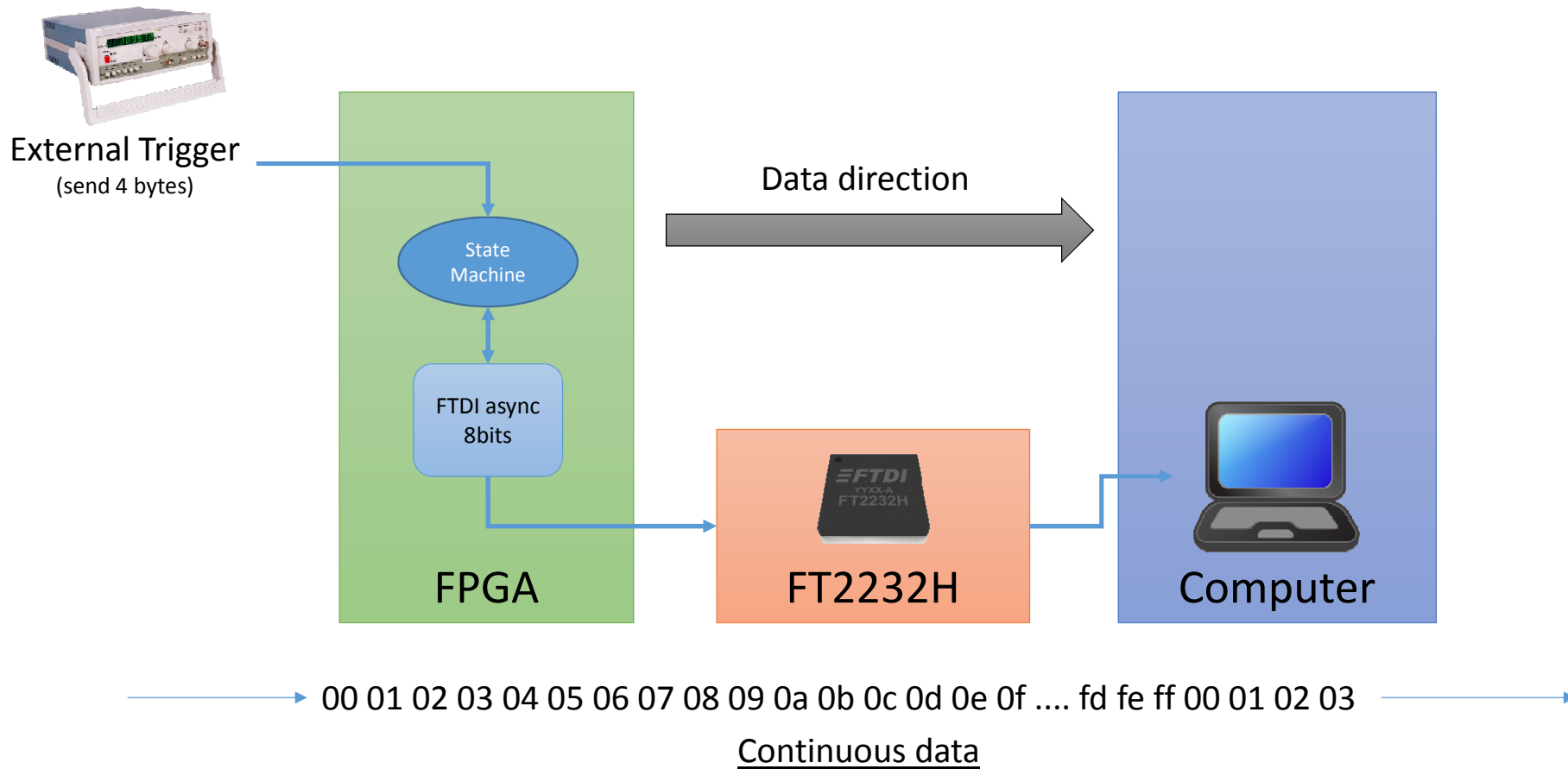
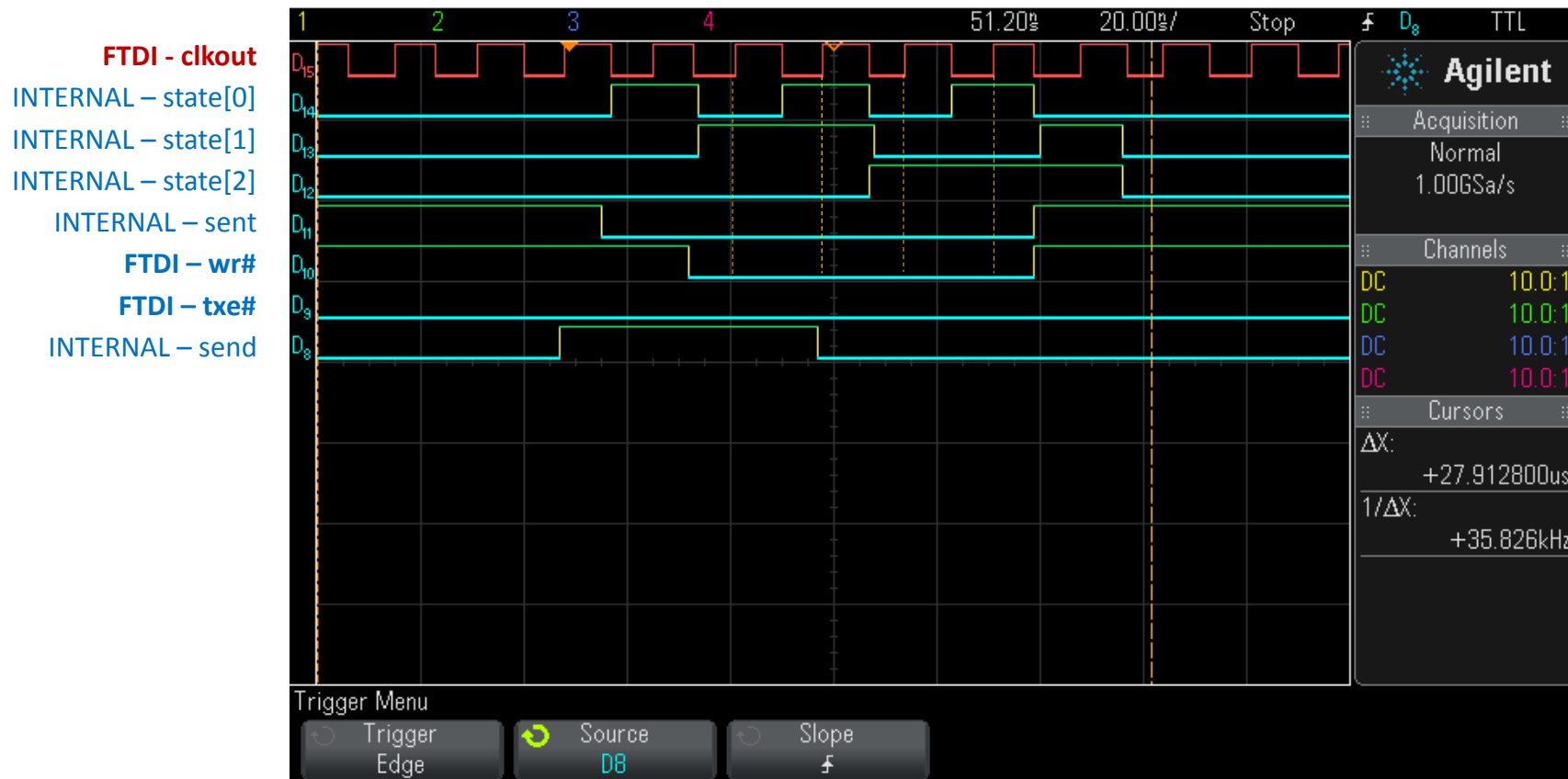


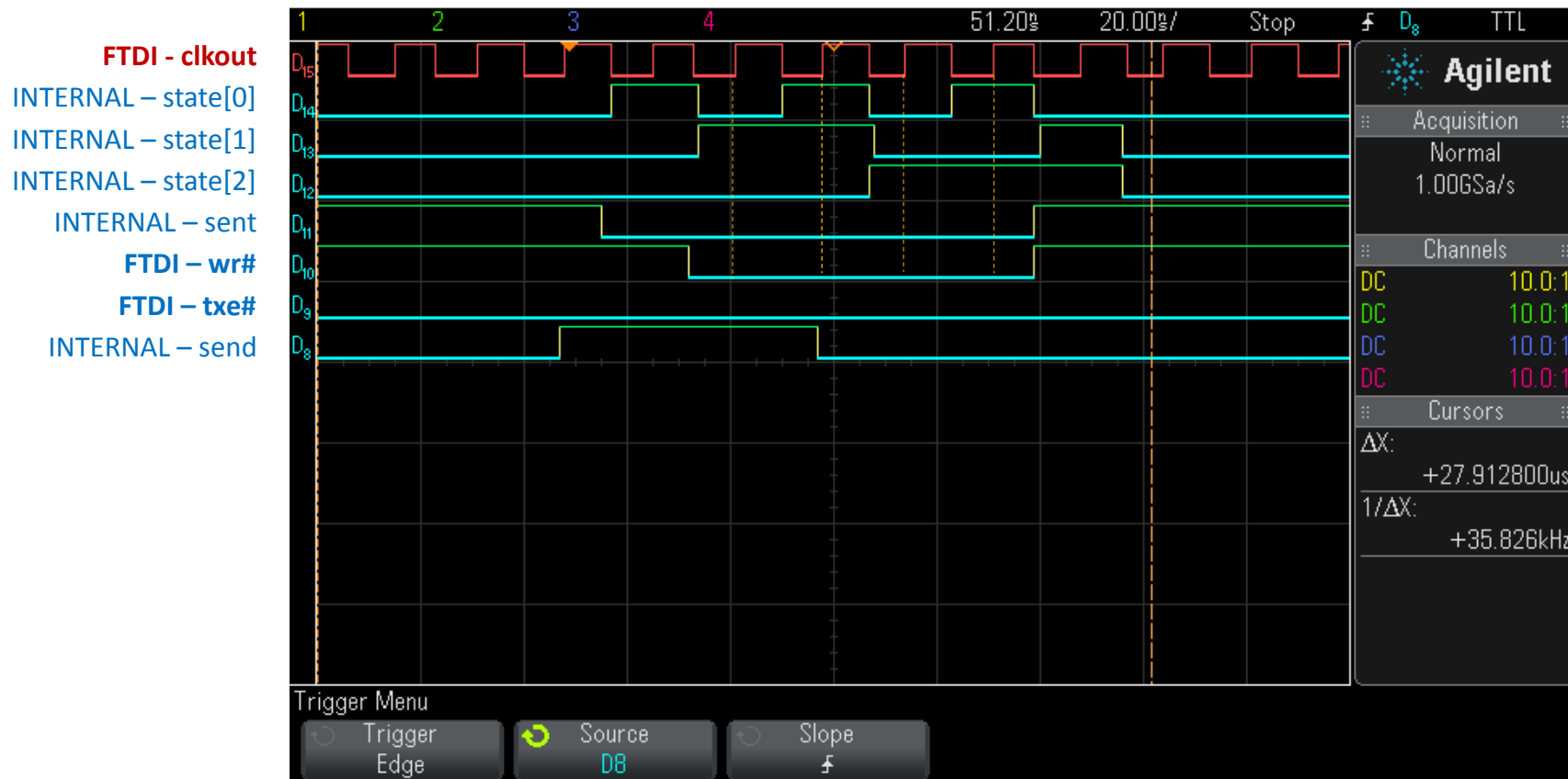
Design block – USB speed testing



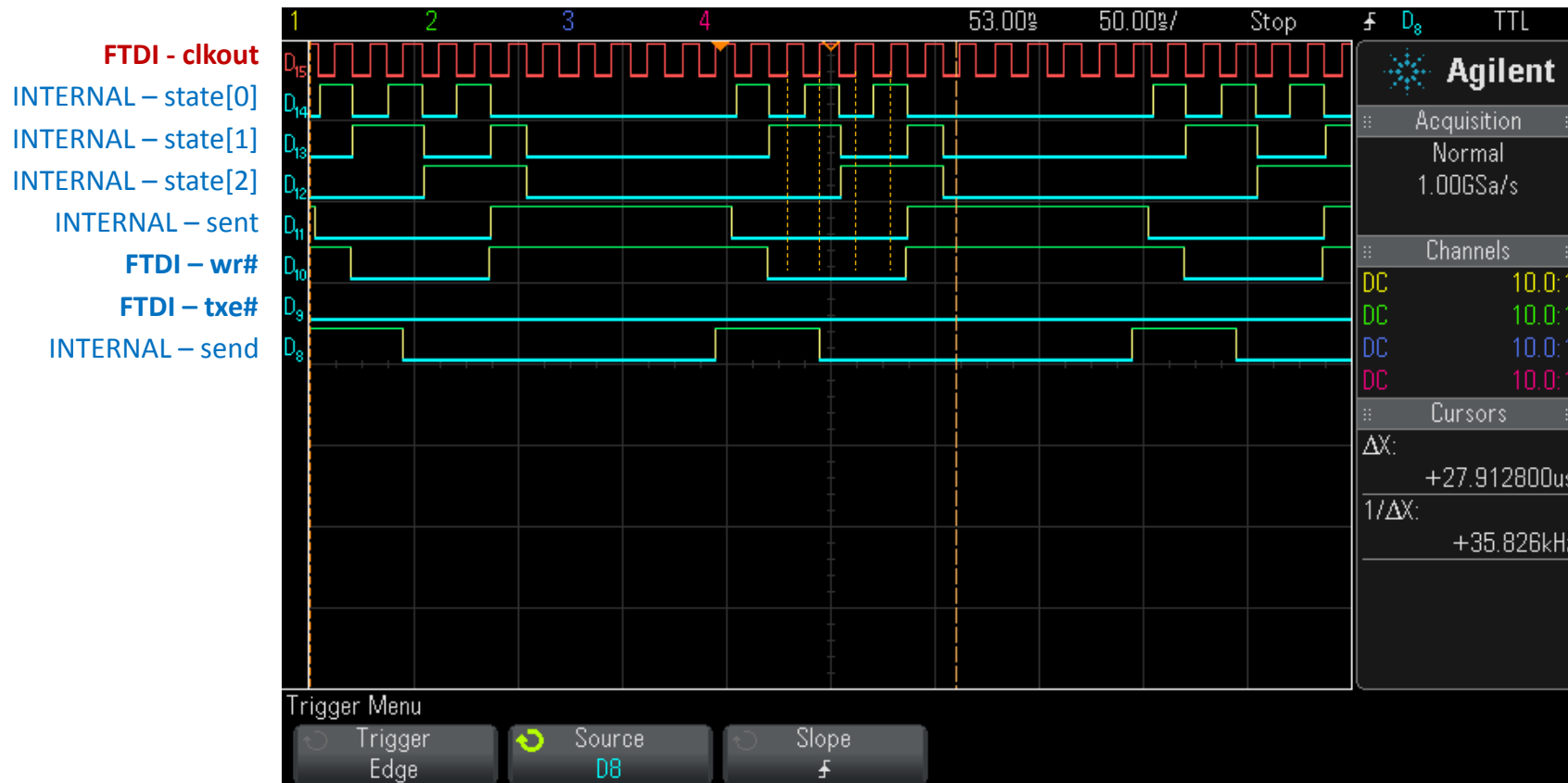
Send 4 bytes in synchronous mode @ 1Hz (4B/s)



Send 4 bytes in synchronous mode @ 1KHz (~4KB/s)



Send 4 bytes in synchronous mode @ 16Mz (~20MB/s)



Testing - Source code

```
1 int usbport_open(char *deviceNumber, FT_HANDLE *ftHandle, int serial);
2 void usbport_getdata(FT_HANDLE ftHandle);
3
4 int usbport_open(char *deviceNumber, FT_HANDLE *ftHandle, int serial) {
5     FT_STATUS ftStatus;
6     DWORD numDevs;
7     char * pcBufLD[MAX_DEVICES + 1];
8     char cBufLD[MAX_DEVICES][64];
9     for (int i = 0; i < MAX_DEVICES; i++) {
10         pcBufLD[i] = cBufLD[i];
11     }
12     pcBufLD[MAX_DEVICES] = NULL;
13
14     // list devices
15     printf("List of devices:\n\n");
16     ftStatus = FT_ListDevices(pcBufLD, &numDevs,
17         FT_LIST_ALL | FT_OPEN_BY_SERIAL_NUMBER);
18     if (ftStatus != FT_OK) {
19         printf("Error: FT_ListDevices returned %d\n", (int) ftStatus);
20         return -1;
21     }
22     for (unsigned int i = 0; ((i < MAX_DEVICES) && (i < numDevs)); i++) {
23         printf(" - Device %d Serial Number - %s\n", i, cBufLD[i]);
24     }
25     ftStatus = FT_OpenEx(deviceNumber, FT_OPEN_BY_SERIAL_NUMBER, ftHandle);
26     if (ftStatus == FT_OK) {
27         printf("\n Port opened (0x%s)", deviceNumber);
28     } else {
29         printf("\n Device fail open");
30         return 0;
31     }
32 }
```

- Function 1: open and init the IC
- Function 2: read all the incoming data
- File: ftdi_issue2.c