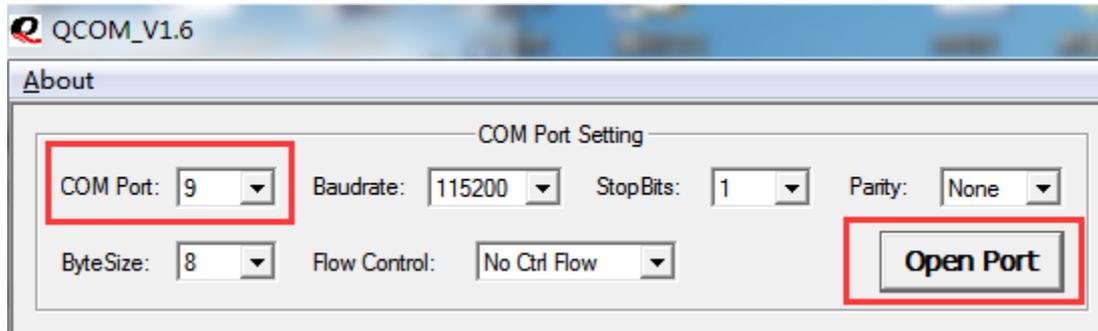


1. Open QCOM tool

- 1) Open application QCOM, "COM Port" select **USB AT port id**, click "Open Port" to connect module.



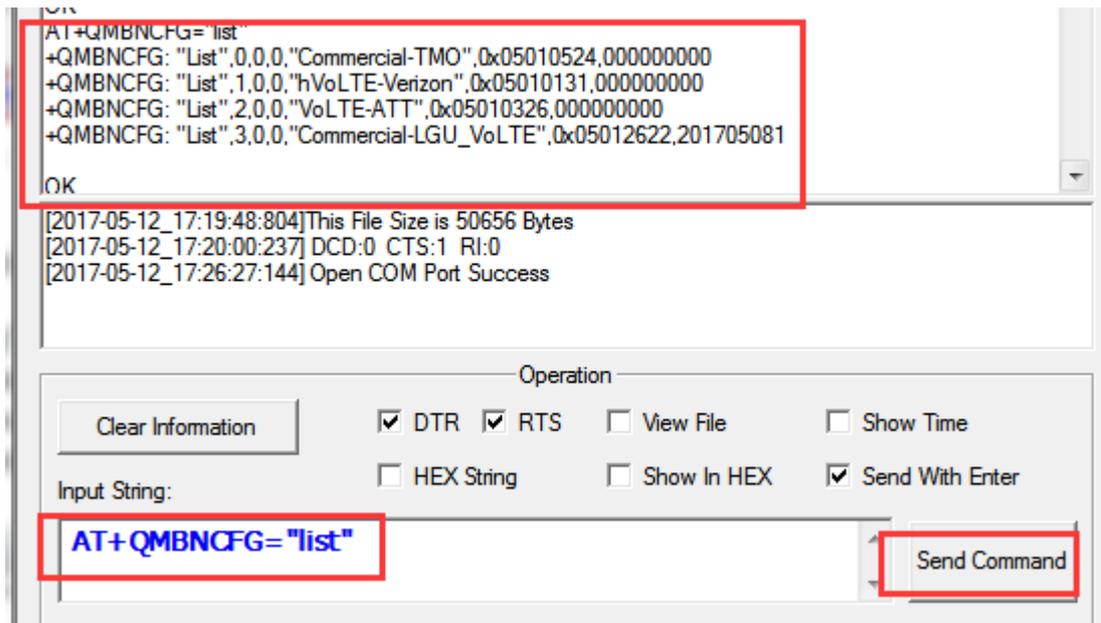
2. Deactivate all mbn

Deactive all mbn in module with command **at+qmbncfg="deactivate"**.

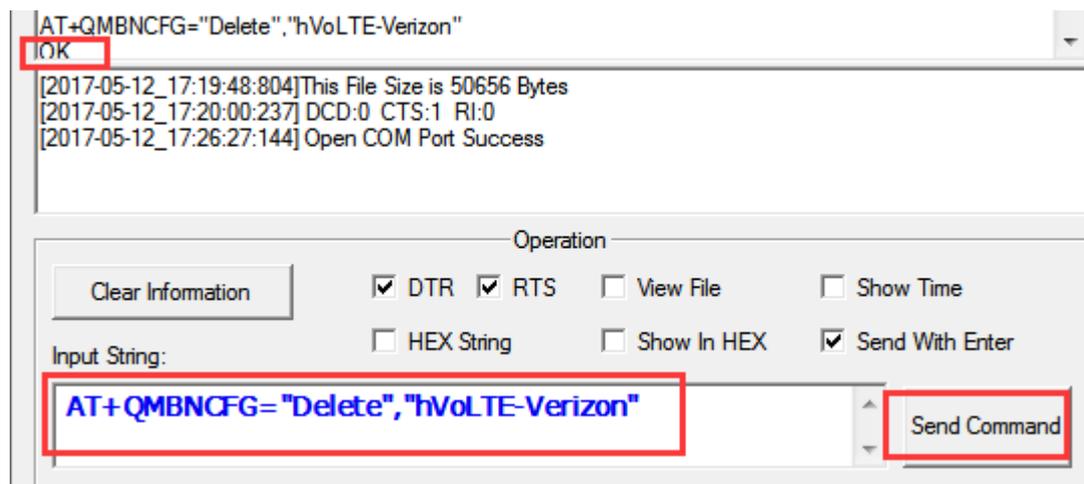


3. Delete old goal mbn

- 1) "Input String" inputs command **at+qmbncfg="list"**, and click "Send Command" to enter the command to module, and QCOM returns a list of mbn. In the list, there exists item hVoLTE-Verizon which is the old goal mbn, the number 1,0,0 means this item is not selected, it needs to be replaced with new mbn.



- 2) then delete this item by command
AT+QMBNCFG="Delete","hVoLTE-Verizon"
it will return "OK".

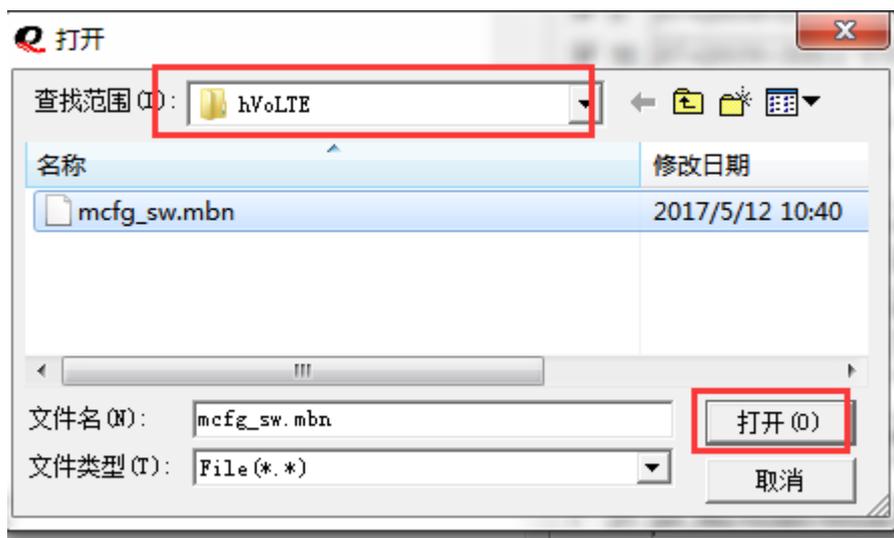


4. Load new goal MBN

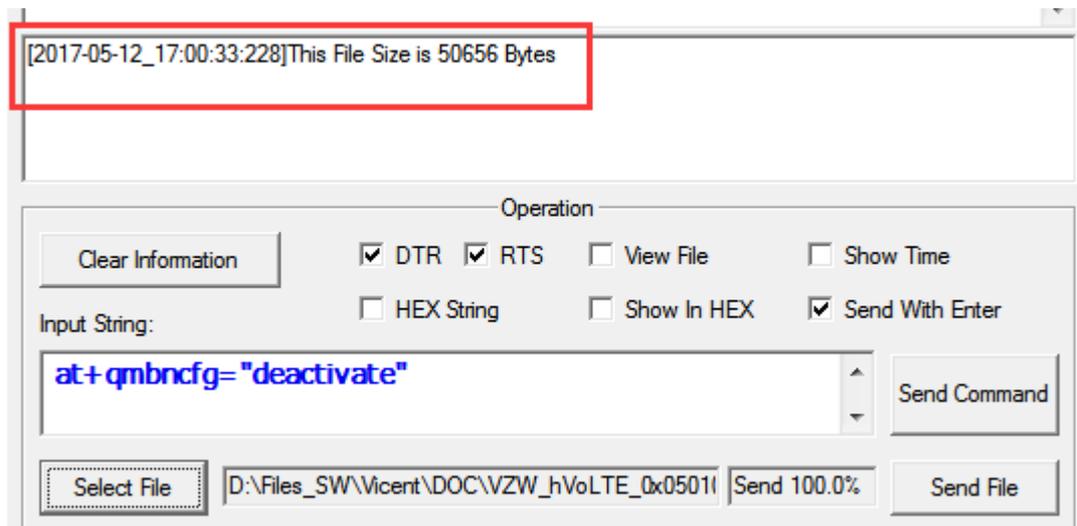
- 1) Click "Select File" button to choose goal MBN, it will appear a new window.



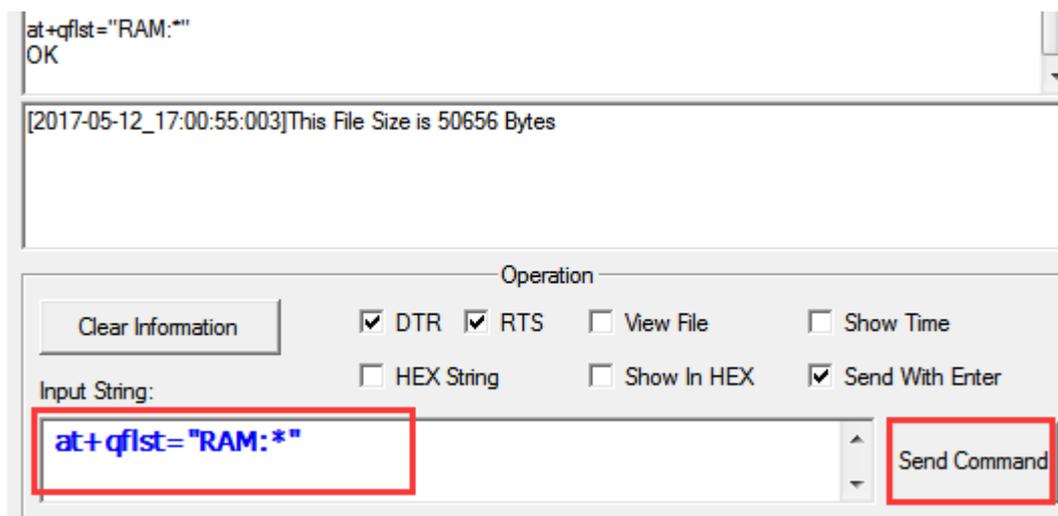
- 2) Here, in new window textbox inputs the goal MBN content, and select the goal MBN, then click "打开" button.



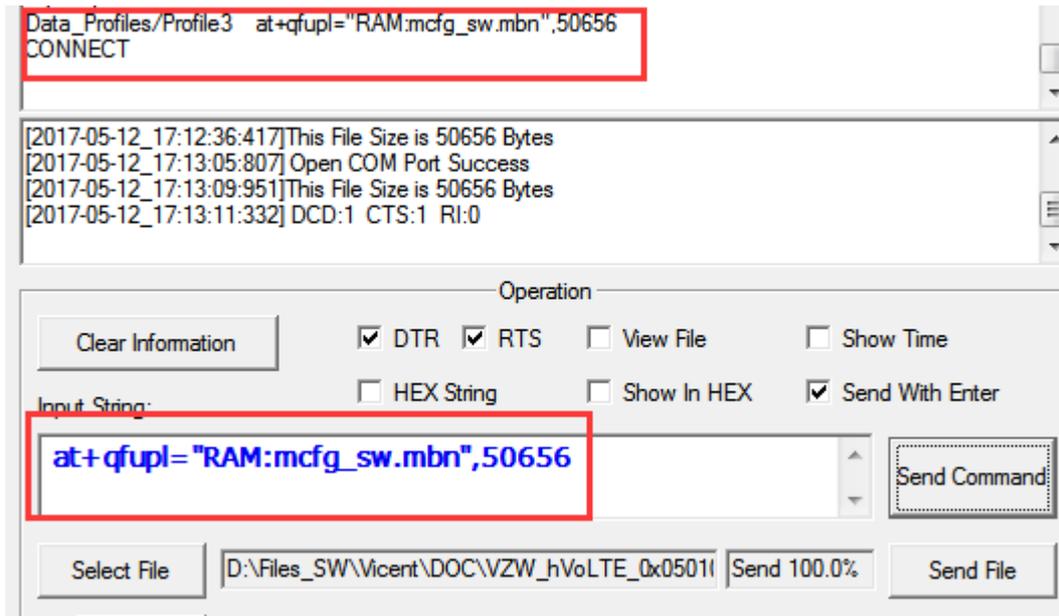
- 3) There occurs a report with information about MBN size.



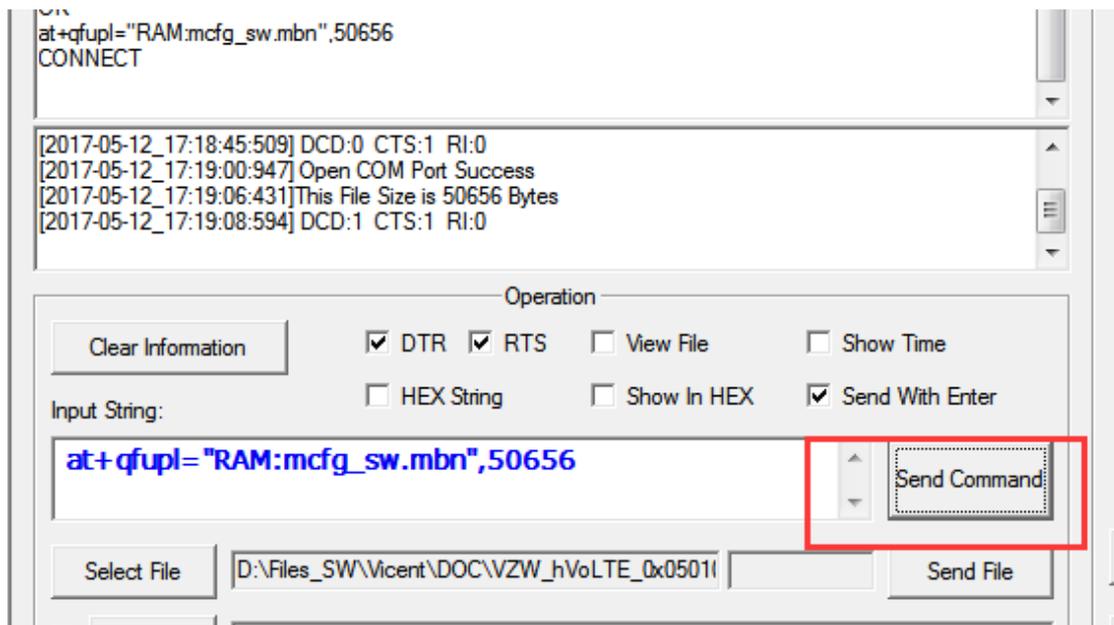
- 4) Execute command `at+qflst="RAM:*` to list the file in RAM.



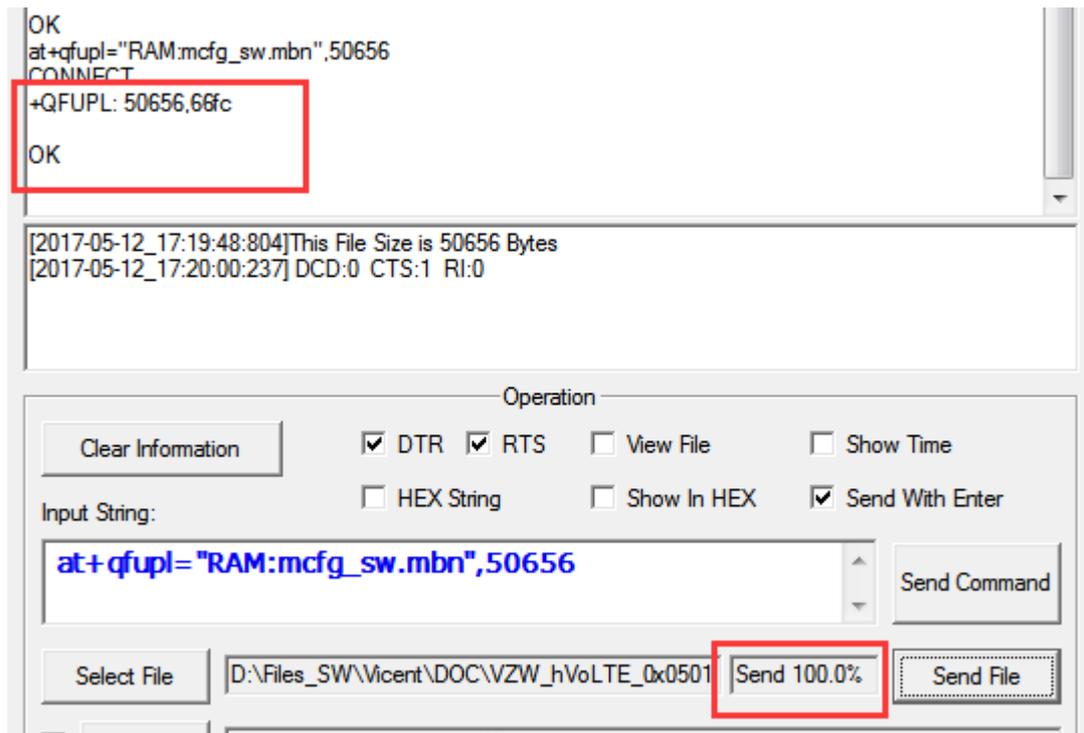
- 5) Load goal MBN to RAM with command `at+qfupl="RAM:mcfg_sw.mbn",50656`, the argument 50656 is the size of goal MBN, it will return "CONNECT".



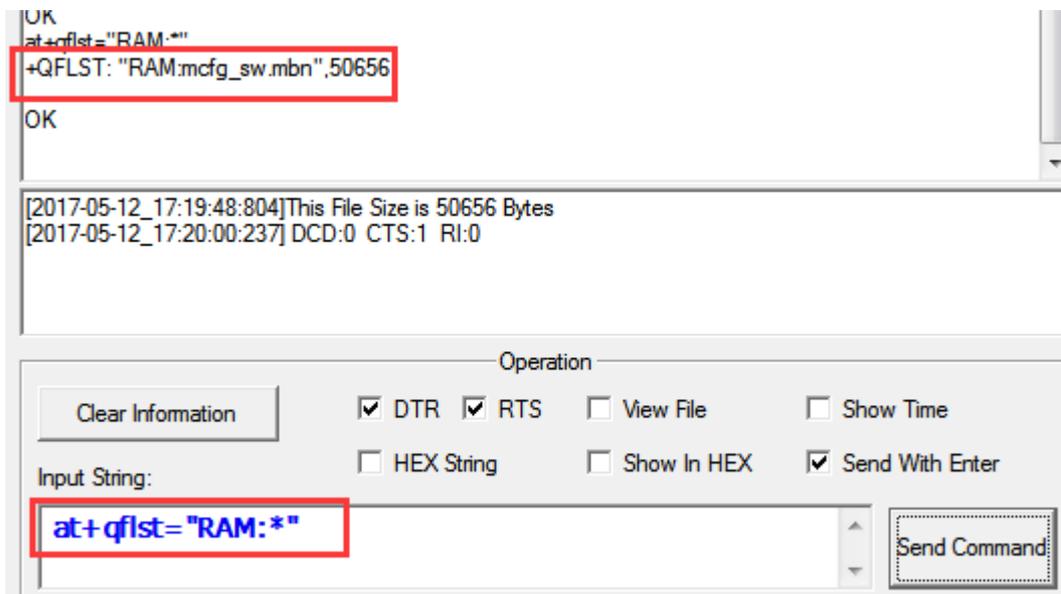
6) Then click "Send File" button, it will transmit goal MBN to RAM by QCOM tool.



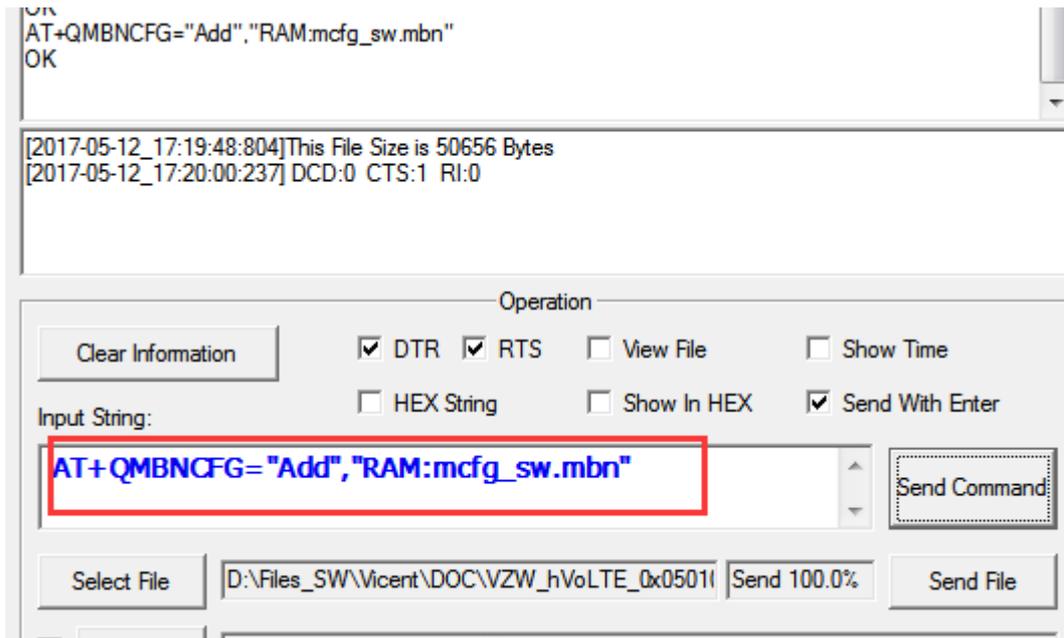
When MBN loads completely, as following figure shown.



7) Check if goal MBN in RAM.

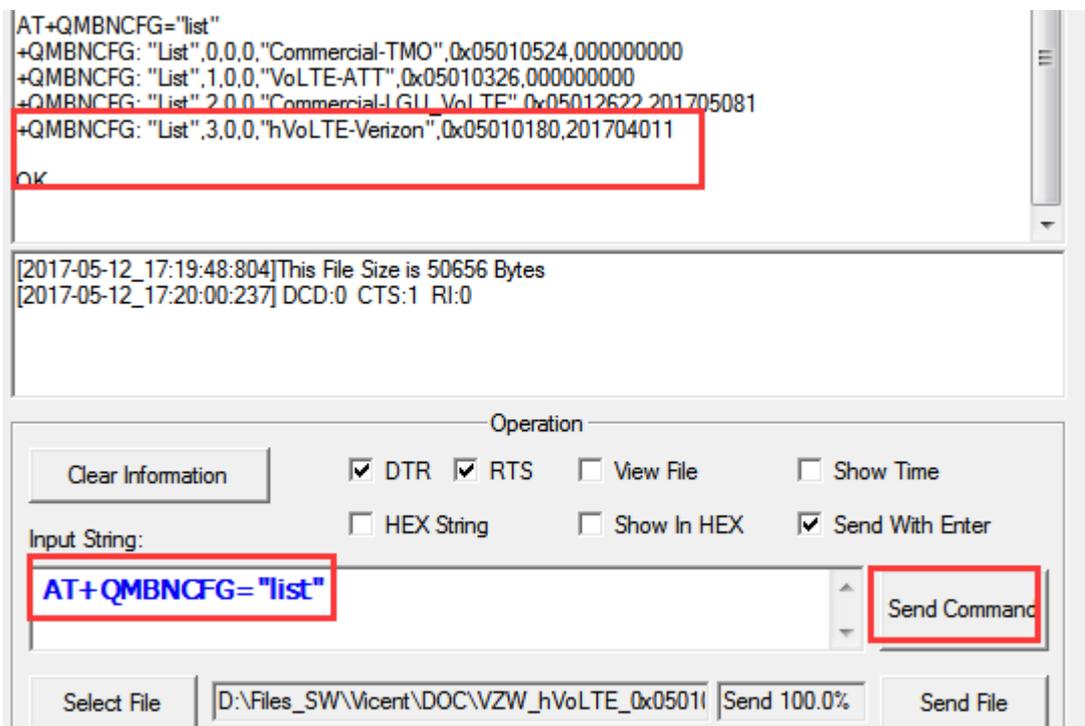


8) Add MBN to module by command **AT+QMBNCFG="Add","RAM:mcfg_sw.mbn"**.

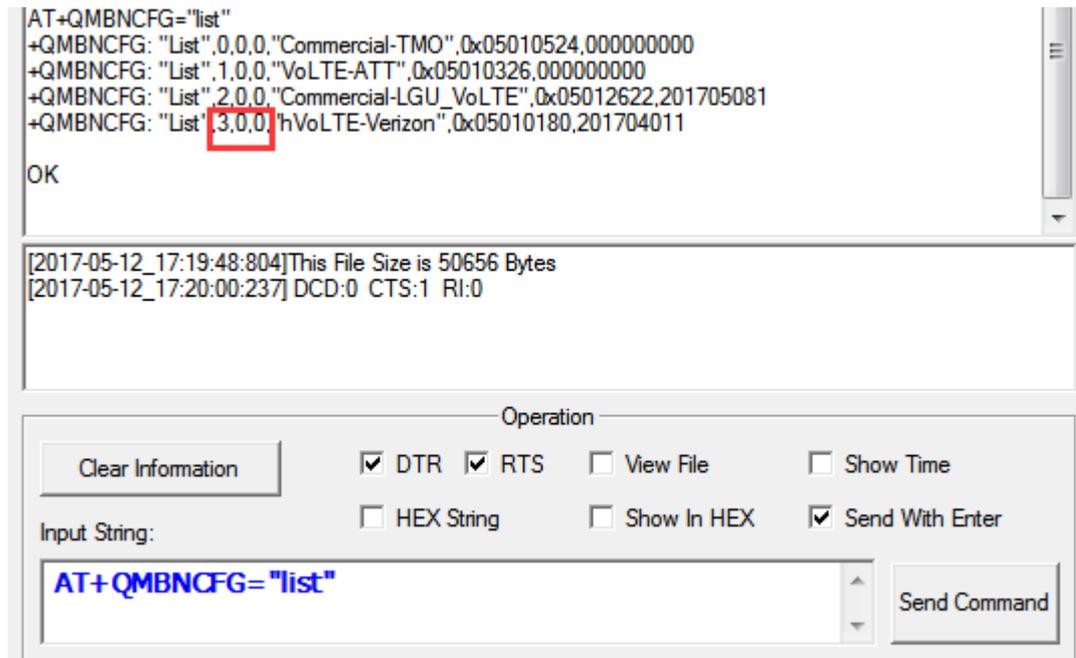


5. Select MBN by QCOM tool

- 1) "Input String" input command `at+qmbncfg="list"`, and click "Send Command" to enter the command to module, and QCOM return a list of mbn.



- 2) In the list, there exists item hVoLTE-Verizon, the number 3,0,0 means goal MBN is not selected.



AT+QMBNCFG="list"
+QMBNCFG: "List",0,0,0,"Commercial-TMO",0x05010524,000000000
+QMBNCFG: "List",1,0,0,"VoLTE-ATT",0x05010326,000000000
+QMBNCFG: "List",2,0,0,"Commercial-LGU_VoLTE",0x05012622,201705081
+QMBNCFG: "List",3,0,0,"hVoLTE-Verizon",0x05010180,201704011
OK

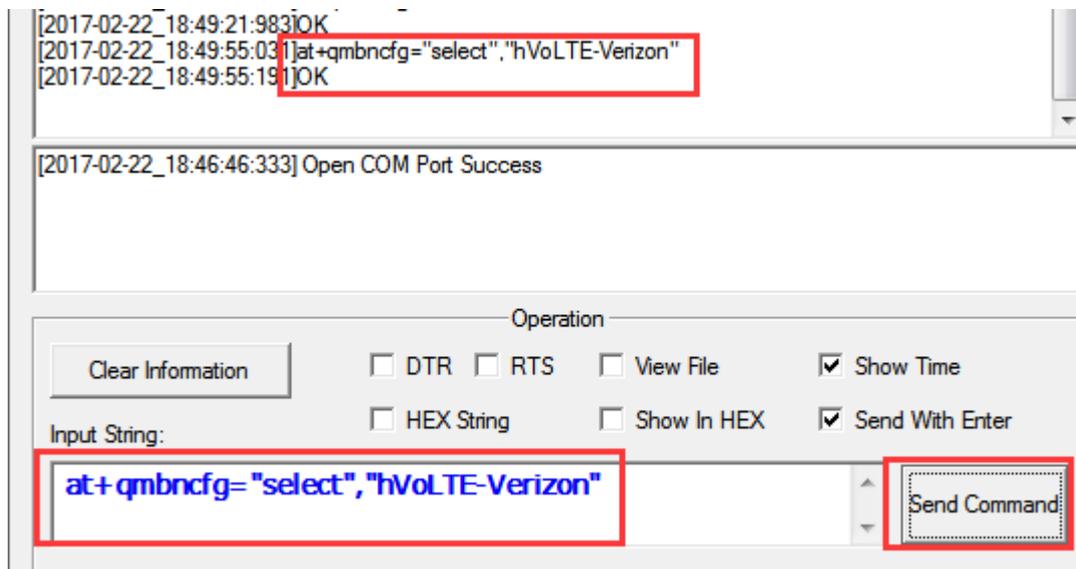
[2017-05-12_17:19:48:804]This File Size is 50656 Bytes
[2017-05-12_17:20:00:237] DCD:0 CTS:1 RI:0

Operation

DTR RTS View File Show Time
 HEX String Show In HEX Send With Enter

Input String:
AT+QMBNCFG="list"

- 3) Then select this item by command
at+qmbnCFG="select","hVoLTE-Verizon"
it will return "OK".



[2017-02-22_18:49:21:983]OK
[2017-02-22_18:49:55:031]at+qmbnCFG="select","hVoLTE-Verizon"
[2017-02-22_18:49:55:191]OK

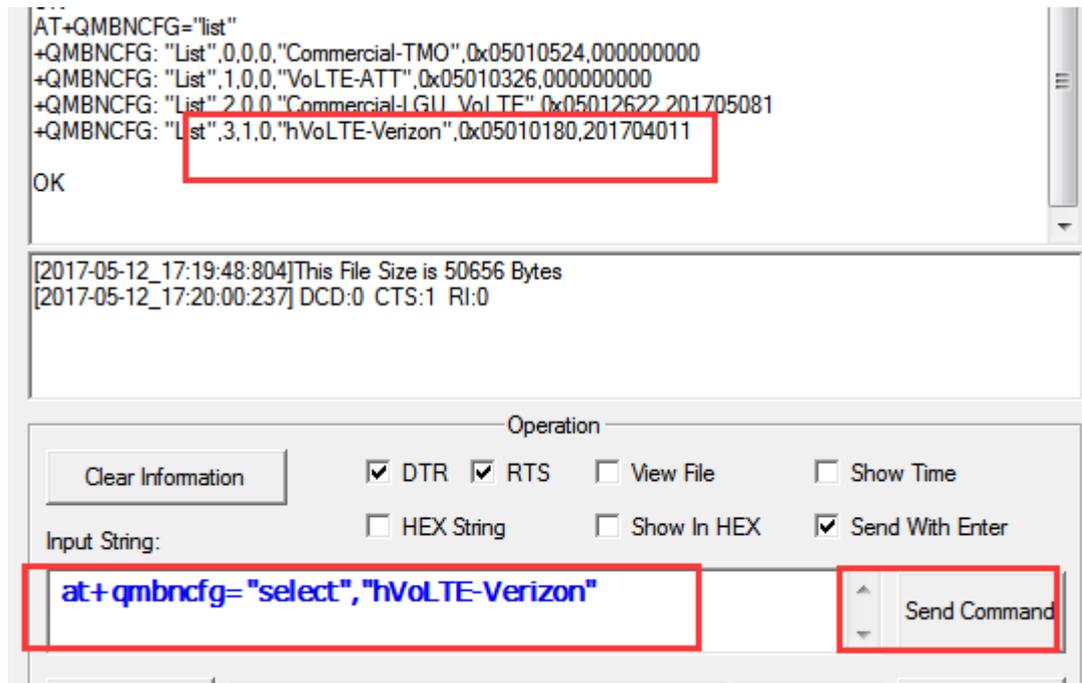
[2017-02-22_18:46:46:333] Open COM Port Success

Operation

DTR RTS View File Show Time
 HEX String Show In HEX Send With Enter

Input String:
at+qmbnCFG="select","hVoLTE-Verizon"

- 4) Execute command **at+qmbnCFG="list"** again to list all of these mbn, item "hVoLTE-Verizon" shows number 3,1,0.



6. Active selected MBN

- 1) This procedure is to active the mbn "hVoLTE-Verizon".
Firstly, power down the module (must disconnect power), then restart the module, wait a moment until the module works normally.
- 2) QCOM reconnect to module by USB AT Port. Execute command **at+qmbnCFG="list"** again to list all of these mbn, item "hVoLTE-Verizon" shows number 3,1,1, it means the goal MBN hVoLTE-Verizon works.

