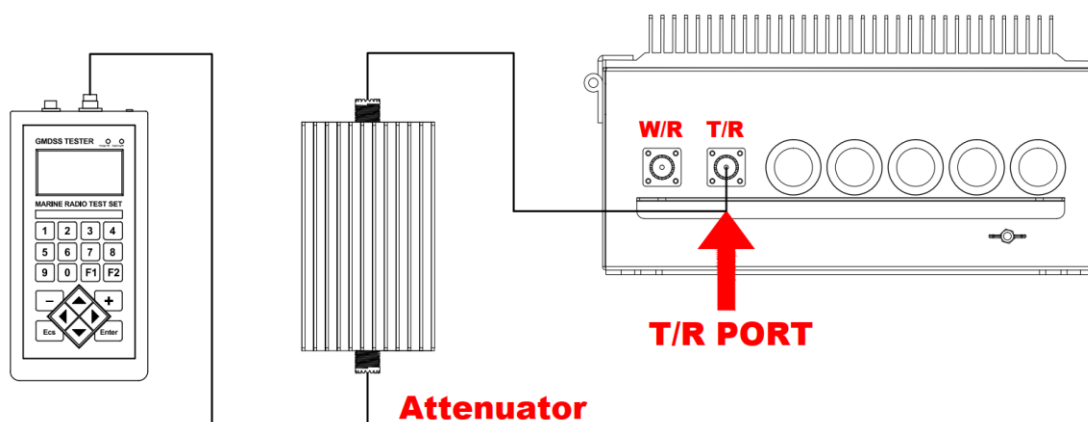


How to Test NHR-1500 TR Receiving with GMDSS tester

1. Connect GMDSS tester to TR port with 200W 40db attenuator.

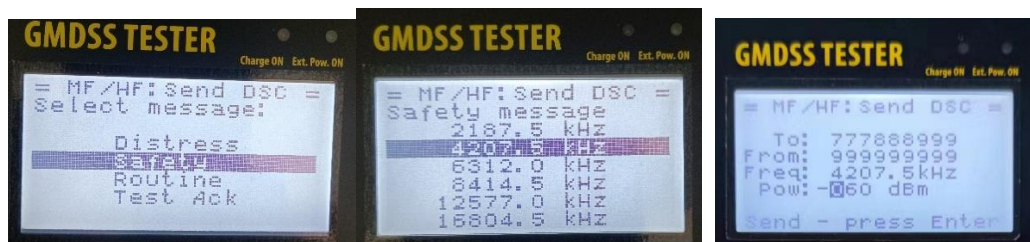


2. GMDSS tester

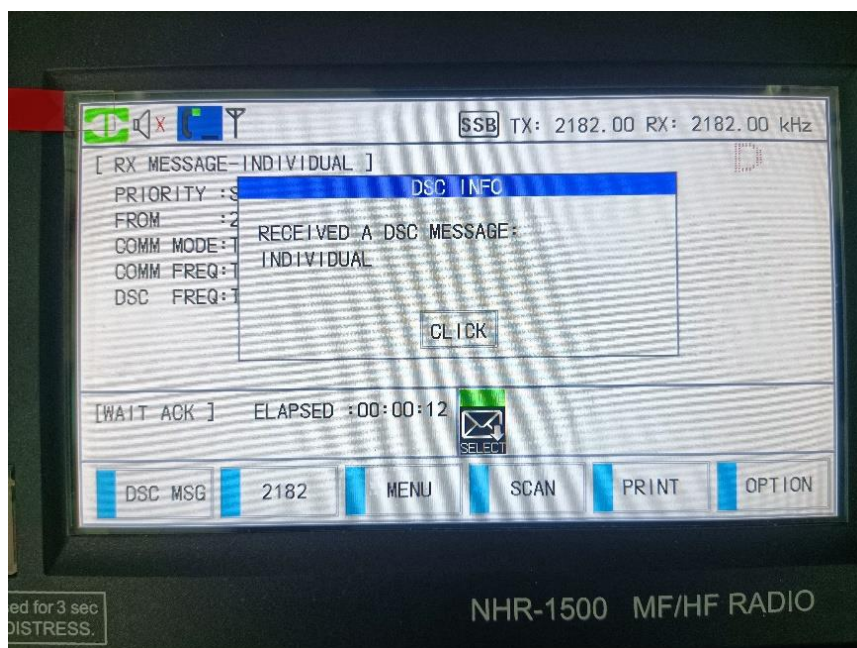
Select Safety message, 4207.5kHz.

To MMSI should be vessel's MMSI.

The Pow value should be in the range of -75dBm to -60dBm.

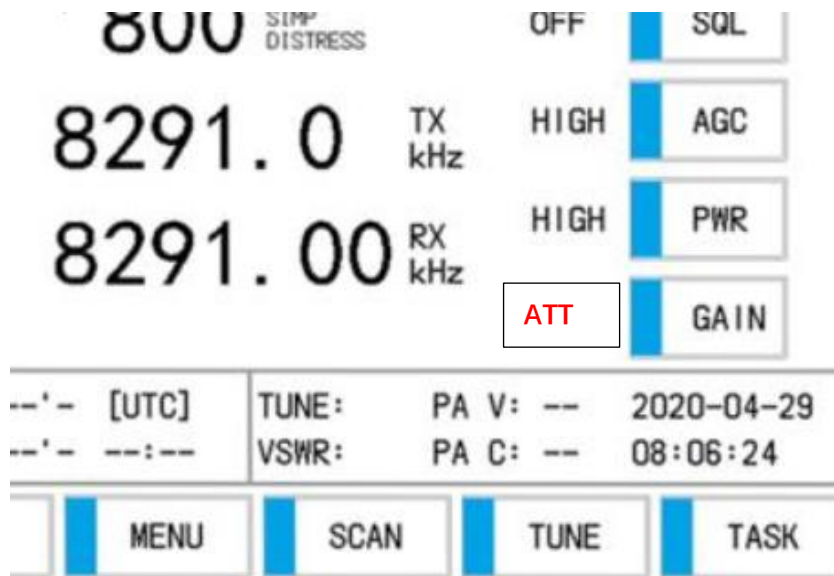


After "Send", NHR-1500 can receive DSC message as below picture.



If DSC can be received within the range of -75dBm to -60dBm, the receiving at TR port is OK.

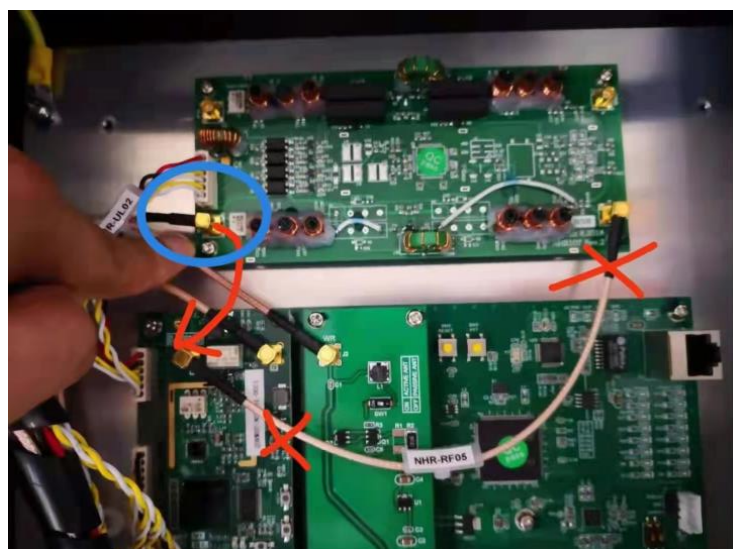
- If step 2 is not OK. Change GAIN to ATT, then repeat test of step 2.



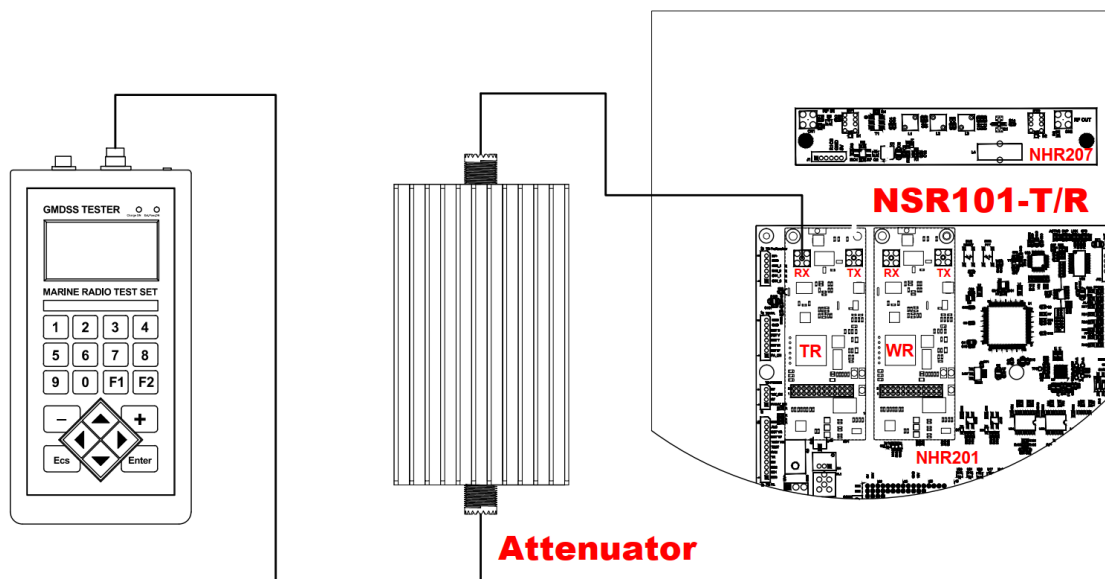
- If step 3 is not OK, bypass the LNA board, then repeat test of step 2.

Before

After



- If step 4 is not OK, connect GMDSS tester to NSR101 TR board with 200W 40db attenuator. Then repeat test of step 2.



If step 5 is OK. The internal RF cable or NHR206 filter board should be faulty.
 If step 5 is not OK, the NSR101 TR board should be faulty.

Note: The TR board use SDR technology, it samples the SSB and DSC signal from the same path, then process the signal at the FPGA by software. So if DSC receiving is OK, the SSB receiving should be OK.

