In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1111101110010000001011111 and CRC remainder 0011101101101101100000110
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000001'
              message_ID: '0001'
            message_body: '010100111010001100001011100001'
                     CRC: '1111101110010000001011111'
                   ACKed: 0
            isACKmessage: 1
     estimatedDopplerStart: 53.0505
       estimatedDopplerEnd: 63.4032
            estimatedDelay: 0.0282
            estimatedPhase: 1.8851

ans =

    "Results saved in MM_test_5.65_12.6_f3_d500_s10_c5.json"

Elapsed time is 8.133529 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367568 seconds.

preciseInterval =

      281650

ans =

    "Acquisition search 10.0% completed."

ans =

    "Acquisition search 20.0% completed."

```
ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0076
      idStartTime: 281651
    idDopplerShift: 51
             mean: 7.0216e-07
       meanSquare: 1.0124e-06
            phase: 1.8445


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."
```

```
ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 111000.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 00100100110101110100000 and CRC remainder 111001011001100011110011
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
        ACQUISITION_OK: 1
           TRACKING_OK: 1
       DEMODULATION_OK: 0
                 SV_ID: '000001'
            message_ID: '0000'
          message_body: '101001000001100100101000001110'
                   CRC: '00100100110101110100000'
                  ACKed: 0
           isACKmessage: 0
```

```
    estimatedDopplerStart: 53.0505
      estimatedDopplerEnd: 58.2268
           estimatedDelay: 0.0282
           estimatedPhase: 1.8445


ans =

    "Results saved in MM_test_5.98_12.6_f3_d500_s10_c5.json"

Elapsed time is 8.038341 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.364508 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."
```

```
ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0051
      idStartTime: 281651
    idDopplerShift: 51
             mean: 1.7510e-07
       meanSquare: 1.0046e-06
            phase: 1.7967


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 101011.
> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 100001.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 001001110011000011111011 and CRC remainder 010010000001101111000001
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
          DEMODULATION_OK: 0
                   SV_ID: '100001'
              message_ID: '0011'
            message_body: '111110011001100110000101001010010010'
                     CRC: '001001110011000011111011'
                   ACKed: 0
            isACKmessage: 0
    estimatedDopplerStart: 53.0505
      estimatedDopplerEnd: 43.9921
           estimatedDelay: 0.0282
           estimatedPhase: 1.7967

ans =

    "Results saved in MM_test_6.31_12.6_f3_d500_s10_c5.json"

Elapsed time is 8.020158 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.362270 seconds.

preciseInterval =

     281650

ans =

    "Acquisition search 10.0% completed."

```
ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0052
       idStartTime: 281651
    idDopplerShift: 51
             mean: 1.4895e-07
       meanSquare: 1.0075e-06
            phase: 1.6651


ans =

    "Tracker step 1: demodulated 10 symbols."
```

```
ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
Warning: Error. Incorrect received tail 001001.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Incorrect received sync 0100100000.
> In MessageAnalyzer/validateAndSplitMessage (line 115)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001011.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1101101100101000011001101 and CRC remainder 110111111101110101110110
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)


ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"
```

```
ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '001011'
              message_ID: '0001'
            message_body: '010110110110000011001000101101'
                     CRC: '110110110010100011001101'
                    ACKed: 0
             isACKmessage: 1
     estimatedDopplerStart: 53.0505
       estimatedDopplerEnd: 65.9913
             estimatedDelay: 0.0282
             estimatedPhase: 1.6651


ans =

    "Results saved in MM_test_6.64_12.6_f3_d500_s10_c5.json"

Elapsed time is 8.022512 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367189 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."
```

```
ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0791
      idStartTime: 281651
   idDopplerShift: 52
             mean: 5.7225e-07
       meanSquare: 1.3318e-06
            phase: 1.6132


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."
```

```
ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 101010.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 001000111000101111100001 and CRC remainder 011100010001101001001011
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000001'
              message_ID: '0100'
            message_body: '101010110001101100001000010110'
                     CRC: '001000111000101111100001'
                   ACKed: 0
            isACKmessage: 0
      estimatedDopplerStart: 63.1515
        estimatedDopplerEnd: 81.9160
             estimatedDelay: 0.0282
             estimatedPhase: 1.6132


ans =

    "Results saved in MM_test_2.32_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.061051 seconds.
.
ans =

    "Generation test signal completed."
```

```
Elapsed time is 0.370761 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

        maxPeak: 0.0504
```

```
       idStartTime: 281652
    idDopplerShift: 52
              mean: 3.2432e-07
        meanSquare: 1.1376e-06
             phase: 1.5804


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 000001.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 0000011111110000000100001 and CRC remainder 0010010001110101111100101
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =
```

```
    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
         ACQUISITION_OK: 1
            TRACKING_OK: 1
        DEMODULATION_OK: 0
                  SV_ID: '000001'
             message_ID: '0011'
           message_body: '0101000011100000110010100010010'
                    CRC: '000001111111000000100001'
                  ACKed: 0
           isACKmessage: 1
    estimatedDopplerStart: 63.1515
      estimatedDopplerEnd: 86.4453
          estimatedDelay: 0.0282
          estimatedPhase: 1.5804


ans =

    "Results saved in MM_test_2.99_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.073456 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.373312 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."
```

```
ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

            maxPeak: 0.0318
        idStartTime: 281651
    idDopplerShift: 52
               mean: 4.0598e-07
         meanSquare: 1.0585e-06
              phase: 1.6450


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."
```

```
ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 011001.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 0010001111001100110011011100 and CRC remainder 11000010101001000101010100
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000001'
              message_ID: '0100'
            message_body: '10101011000110110000101010010110'
                     CRC: '0010001111001100110011011100'
                   ACKed: 0
             isACKmessage: 0
     estimatedDopplerStart: 63.1515
       estimatedDopplerEnd: 86.4453
           estimatedDelay: 0.0282
           estimatedPhase: 1.6450


ans =

    "Results saved in MM_test_3.65_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.065881 seconds.
.
ans =
```

```
    "Generation test signal completed."

Elapsed time is 0.372491 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:
```

```
        maxPeak: 0.0198
     idStartTime: 281651
  idDopplerShift: 52
            mean: 4.2299e-07
      meanSquare: 1.0206e-06
           phase: 1.5990
```

ans =

    "Tracker step 1: demodulated 10 symbols."

ans =

    "Tracker step 2: demodulated 20 symbols."

ans =

    "Tracker step 3: demodulated 30 symbols."

ans =

    "Tracker step 4: demodulated 40 symbols."

ans =

    "Tracker step 5: demodulated 50 symbols."

ans =

    "Tracker step 6: demodulated 60 symbols."

ans =

    "Tracker step 7: demodulated 70 symbols."

ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 001111.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 001001111111100000010010 and CRC remainder 100101111101110111110111
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."

ans =

```
    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
         ACQUISITION_OK: 1
            TRACKING_OK: 1
        DEMODULATION_OK: 0
                  SV_ID: '000001'
             message_ID: '0000'
           message_body: '101010110001101100001000010110'
                    CRC: '001001111111100000010010'
                   ACKed: 0
           isACKmessage: 0
    estimatedDopplerStart: 63.1515
      estimatedDopplerEnd: 78.6807
          estimatedDelay: 0.0282
          estimatedPhase: 1.5990


ans =

    "Results saved in MM_test_4.32_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.064548 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.372466 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =
```

```
    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

           maxPeak: 0.0128
       idStartTime: 281652
    idDopplerShift: 52
              mean: 2.3428e-07
        meanSquare: 1.0169e-06
             phase: 1.6221


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."
```

```
ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 100000.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 00100111001010100001011101 and CRC remainder 1110101101010100010001
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000001'
              message_ID: '0010'
            message_body: '10101111000111010011101001010010'
                     CRC: '00100111001010100001011101'
                   ACKed: 0
             isACKmessage: 0
      estimatedDopplerStart: 63.1515
        estimatedDopplerEnd: 90.3277
              estimatedDelay: 0.0282
              estimatedPhase: 1.6221


ans =

    "Results saved in MM_test_4.98_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.183796 seconds.
.
ans =
```

```
    "Generation test signal completed."

Elapsed time is 0.371320 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:
```

```
        maxPeak: 0.0105
    idStartTime: 281652
 idDopplerShift: 52
           mean: 1.2768e-07
     meanSquare: 1.0143e-06
          phase: 1.5480


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 100100.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 110111001111000101100001 and CRC remainder 111011101101010001011000
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."
```

```
ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
          DEMODULATION_OK: 0
                  SV_ID: '000001'
              message_ID: '0011'
            message_body: '101010110001101100001100011111'
                    CRC: '110111001111000101100001'
                   ACKed: 0
            isACKmessage: 0
    estimatedDopplerStart: 63.1515
      estimatedDopplerEnd: 86.4453
           estimatedDelay: 0.0282
           estimatedPhase: 1.5480


ans =

    "Results saved in MM_test_5.32_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.037213 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367544 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =
```

```
    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0081
      idStartTime: 281649
    idDopplerShift: 51
             mean: 3.9937e-07
       meanSquare: 1.0118e-06
            phase: 2.8623


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =
```

```
    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 011011.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000110.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 10010011011110110000000 and CRC remainder 1000010011101111111001
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
        ACQUISITION_OK: 1
           TRACKING_OK: 1
       DEMODULATION_OK: 0
                 SV_ID: '000110'
            message_ID: '1101'
          message_body: '101000110110001001110111110001'
                   CRC: '10010011011110110000000'
                 ACKed: 0
          isACKmessage: 0
    estimatedDopplerStart: 53.0505
      estimatedDopplerEnd: 64.0502
           estimatedDelay: 0.0282
           estimatedPhase: 2.8623


ans =
```

```
    "Results saved in MM_test_5.65_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.051966 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.363587 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =
```

```
    "Acquisition search 100.0% completed."


ans =

  struct with fields:

           maxPeak: 0.0066
       idStartTime: 281652
    idDopplerShift: 52
              mean: 2.5189e-07
        meanSquare: 1.0083e-06
             phase: 1.6373


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 000010.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 100010101011000110001011 and CRC remainder 110001111101011100110101
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000001'
              message_ID: '0011'
            message_body: '0110110001011111000011000011110'
                     CRC: '10001010101011000110001011'
                   ACKed: 0
            isACKmessage: 1
     estimatedDopplerStart: 63.1515
       estimatedDopplerEnd: 67.0338
            estimatedDelay: 0.0282
            estimatedPhase: 1.6373


ans =

    "Results saved in MM_test_5.98_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.079847 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.380649 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."
```

```
ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0051
       idStartTime: 281650
    idDopplerShift: 51
              mean: 1.1439e-07
        meanSquare: 1.0084e-06
             phase: 2.9199


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =
```

```
    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
Warning: Error. Incorrect received tail 001111.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Incorrect received sync 0101100001.
> In MessageAnalyzer/validateAndSplitMessage (line 115)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 000100100011001100100100 and CRC remainder 001111000110011000101110
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000001'
              message_ID: '1100'
            message_body: '100110111010001111010111100000'
                     CRC: '000100100011001100100100'
                    ACKed: 0
              isACKmessage: 0
      estimatedDopplerStart: 53.0505
```

```
    estimatedDopplerEnd: 72.4618
          estimatedDelay: 0.0282
          estimatedPhase: 2.9199


ans =

    "Results saved in MM_test_6.31_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.061015 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.370695 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =
```

```
    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0047
      idStartTime: 281649
    idDopplerShift: 51
             mean: 7.9927e-08
       meanSquare: 1.0042e-06
            phase: 2.7302


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 100111.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Incorrect received sync 0101100010.
> In MessageAnalyzer/validateAndSplitMessage (line 115)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 010011.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 000000010011100101001000 and CRC remainder 101100010001011000111011
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
              TRACKING_OK: 1
          DEMODULATION_OK: 0
                    SV_ID: '010011'
               message_ID: '1100'
             message_body: '11110110111000101000100 0011111'
                      CRC: '000000010011100101001000'
                    ACKed: 0
              isACKmessage: 0
      estimatedDopplerStart: 53.0505
        estimatedDopplerEnd: 76.3441
             estimatedDelay: 0.0282
             estimatedPhase: 2.7302

ans =

    "Results saved in MM_test_6.64_25.4_f3_d500_s10_c5.json"

Elapsed time is 8.033837 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.375244 seconds.

preciseInterval =

      281650

ans =

    "Acquisition search 10.0% completed."

ans =

    "Acquisition search 20.0% completed."

ans =

    "Acquisition search 30.0% completed."

ans =

    "Acquisition search 40.0% completed."

ans =

    "Acquisition search 50.0% completed."

ans =

    "Acquisition search 60.0% completed."

ans =

    "Acquisition search 70.0% completed."

ans =

    "Acquisition search 80.0% completed."

ans =

    "Acquisition search 90.0% completed."

ans =

    "Acquisition search 100.0% completed."

ans =

  struct with fields:

          maxPeak: 0.0846
       idStartTime: 281650
    idDopplerShift: 53
             mean: 4.0792e-07
       meanSquare: 1.3380e-06
            phase: 2.4108

```
ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 101000.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000000.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 100111011010011011001011 and CRC remainder 110000011110101100001000
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"
```

```
ans =

  struct with fields:

               version: "2"
         ACQUISITION_OK: 1
            TRACKING_OK: 1
        DEMODULATION_OK: 0
                  SV_ID: '000000'
             message_ID: '1100'
           message_body: '011011110100010000001000101111'
                    CRC: '100111011010011011001011'
                   ACKed: 0
            isACKmessage: 1
    estimatedDopplerStart: 73.2525
      estimatedDopplerEnd: 79.7231
           estimatedDelay: 0.0282
           estimatedPhase: 2.4108


ans =

    "Results saved in MM_test_2.32_51_f3_d500_s10_c5.json"

Elapsed time is 8.010519 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367872 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."
```

```
ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0522
      idStartTime: 281650
    idDopplerShift: 53
             mean: 5.3988e-07
       meanSquare: 1.1373e-06
            phase: 2.4197


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =
```

```
    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 100110.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000010.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 001101000000000001000011 and CRC remainder 001101101100001101111111
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
          DEMODULATION_OK: 0
                   SV_ID: '000010'
              message_ID: '1100'
            message_body: '010011110011111011100000101011'
                     CRC: '001101000000000001000011'
                   ACKed: 0
            isACKmessage: 1
     estimatedDopplerStart: 73.2525
       estimatedDopplerEnd: 81.6642
            estimatedDelay: 0.0282
            estimatedPhase: 2.4197


ans =

    "Results saved in MM_test_2.99_51_f3_d500_s10_c5.json"

Elapsed time is 8.043099 seconds.
```

```
.
ans =

    "Generation test signal completed."

Elapsed time is 0.375079 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =
```

```
    struct with fields:

            maxPeak: 0.0333
        idStartTime: 281650
     idDopplerShift: 53
               mean: 1.0095e-07
         meanSquare: 1.0575e-06
              phase: 2.4287


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 010110.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000000.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 000100100111100110000011 and CRC remainder 001010001011110010111111
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
              TRACKING_OK: 1
          DEMODULATION_OK: 0
                    SV_ID: '000000'
               message_ID: '1100'
             message_body: '1001000011010011101100111011101'
                      CRC: '000100100111100110000011'
                     ACKed: 0
              isACKmessage: 0
      estimatedDopplerStart: 73.2525
        estimatedDopplerEnd: 84.2524
             estimatedDelay: 0.0282
             estimatedPhase: 2.4288

ans =

    "Results saved in MM_test_3.65_51_f3_d500_s10_c5.json"

Elapsed time is 8.069640 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.369096 seconds.

preciseInterval =

      281650

ans =

    "Acquisition search 10.0% completed."

ans =

    "Acquisition search 20.0% completed."

ans =

    "Acquisition search 30.0% completed."

```
ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0207
       idStartTime: 281650
    idDopplerShift: 53
              mean: 7.9507e-07
        meanSquare: 1.0228e-06
             phase: 2.3838


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."
```

```
ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 011011.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000010.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 011101001111100100001010 and CRC remainder 011111101000111101000011
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

              version: "2"
        ACQUISITION_OK: 1
           TRACKING_OK: 1
        DEMODULATION_OK: 0
                 SV_ID: '000010'
            message_ID: '1101'
          message_body: '010011101011100010110101001111'
                   CRC: '011101001111100100001010'
                 ACKed: 0
          isACKmessage: 1
```

```
    estimatedDopplerStart: 73.2525
      estimatedDopplerEnd: 73.8996
            estimatedDelay: 0.0282
            estimatedPhase: 2.3838


ans =

    "Results saved in MM_test_4.32_51_f3_d500_s10_c5.json"

Elapsed time is 8.054139 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.374601 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."
```

ans =

    "Acquisition search 90.0% completed."

ans =

    "Acquisition search 100.0% completed."

ans =

  struct with fields:

          maxPeak: 0.0128
      idStartTime: 281650
    idDopplerShift: 53
             mean: 4.0547e-07
       meanSquare: 1.0161e-06
            phase: 2.3635

ans =

    "Tracker step 1: demodulated 10 symbols."

ans =

    "Tracker step 2: demodulated 20 symbols."

ans =

    "Tracker step 3: demodulated 30 symbols."

ans =

    "Tracker step 4: demodulated 40 symbols."

ans =

    "Tracker step 5: demodulated 50 symbols."

ans =

    "Tracker step 6: demodulated 60 symbols."

ans =

    "Tracker step 7: demodulated 70 symbols."

ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 001101.
> In MessageAnalyzer/validateAndSplitMessage (line 110)

```
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000000.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 010011000000000011000011 and CRC remainder 100010010111111111010100
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
```

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000000'
              message_ID: '1101'
            message_body: '01101111010100001111101001100 0'
                     CRC: '010011000000000011000011'
                   ACKed: 0
           isACKmessage: 1
    estimatedDopplerStart: 73.2525
      estimatedDopplerEnd: 84.8995
           estimatedDelay: 0.0282
           estimatedPhase: 2.3635

ans =

    "Results saved in MM_test_4.98_51_f3_d500_s10_c5.json"

Elapsed time is 8.022546 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367256 seconds.

preciseInterval =

      281650

ans =

    "Acquisition search 10.0% completed."

```
ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0102
       idStartTime: 281651
    idDopplerShift: 53
             mean: 4.3121e-07
       meanSquare: 1.0107e-06
            phase: 2.3459


ans =

    "Tracker step 1: demodulated 10 symbols."
```

```
ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 100100.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000010.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 0010110010111110000000010 and CRC remainder 1100111000011111110111001
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:
```

```
               version: "2"
       ACQUISITION_OK: 1
          TRACKING_OK: 1
      DEMODULATION_OK: 0
                SV_ID: '000010'
           message_ID: '1111'
         message_body: '001011100000000001111011001101'
                  CRC: '001011001011111000000010'
                ACKed: 0
        isACKmessage: 1
   estimatedDopplerStart: 73.2525
     estimatedDopplerEnd: 77.7819
          estimatedDelay: 0.0282
          estimatedPhase: 2.3459


ans =

    "Results saved in MM_test_5.32_51_f3_d500_s10_c5.json"

Elapsed time is 8.184447 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.378717 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."
```

```
ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0083
       idStartTime: 281651
    idDopplerShift: 53
             mean: 1.6844e-07
       meanSquare: 1.0093e-06
            phase: 2.3817


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."
```

```
ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 111110.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1110010000010011110100010 and CRC remainder 00000001011011111110001011
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
        ACQUISITION_OK: 1
           TRACKING_OK: 1
       DEMODULATION_OK: 0
                 SV_ID: '000001'
            message_ID: '1100'
          message_body: '1101010000010010110101011110000'
                   CRC: '1110010000010011110100010'
                 ACKed: 0
          isACKmessage: 0
    estimatedDopplerStart: 73.2525
      estimatedDopplerEnd: 81.0172
          estimatedDelay: 0.0282
          estimatedPhase: 2.3816


ans =

    "Results saved in MM_test_5.65_51_f3_d500_s10_c5.json"

Elapsed time is 8.352210 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.362179 seconds.

preciseInterval =
```

```
    281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0072
       idStartTime: 281650
    idDopplerShift: 53
             mean: 4.7829e-07
       meanSquare: 1.0046e-06
            phase: 2.4173
```

```
ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 011011.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000000.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 101100100011101001100000 and CRC remainder 100110101101010010001000
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =
```

```
    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
           ACQUISITION_OK: 1
              TRACKING_OK: 1
          DEMODULATION_OK: 0
                    SV_ID: '000000'
               message_ID: '1100'
             message_body: '110101000101101111101110001101'
                      CRC: '101100100011101001100000'
                    ACKed: 0
             isACKmessage: 0
      estimatedDopplerStart: 73.2525
        estimatedDopplerEnd: 84.8995
              estimatedDelay: 0.0282
              estimatedPhase: 2.4173


ans =

    "Results saved in MM_test_5.98_51_f3_d500_s10_c5.json"

Elapsed time is 8.076157 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.375544 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."
```

```
ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0050
      idStartTime: 281650
    idDopplerShift: 53
             mean: 4.1623e-07
       meanSquare: 1.0042e-06
            phase: 2.2326


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."
```

```
ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 001011.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001100.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1101100011001101000010110 and CRC remainder 10000100101010111111010
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
            ACQUISITION_OK: 1
               TRACKING_OK: 1
           DEMODULATION_OK: 0
                     SV_ID: '001100'
                message_ID: '1101'
              message_body: '010011010100111010001101010001'
                       CRC: '1101100011001101000010110'
                     ACKed: 0
              isACKmessage: 1
       estimatedDopplerStart: 73.2525
         estimatedDopplerEnd: 74.5467
              estimatedDelay: 0.0282
              estimatedPhase: 2.2327


ans =

    "Results saved in MM_test_6.31_51_f3_d500_s10_c5.json"
```

```
Elapsed time is 8.045223 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.368641 seconds.

preciseInterval =

    281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."
```

```
ans =

  struct with fields:

        maxPeak: 0.0050
     idStartTime: 281650
   idDopplerShift: 53
           mean: 4.8271e-07
      meanSquare: 1.0037e-06
          phase: 2.3983


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 000010.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001000.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1101000111101100010111110 and CRC remainder 100111100010000111001011

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
          DEMODULATION_OK: 0
                   SV_ID: '001000'
              message_ID: '1100'
            message_body: '10110000110000001111110010110'
                     CRC: '11010001110110010111110'
                    ACKed: 0
            isACKmessage: 0
     estimatedDopplerStart: 73.2525
       estimatedDopplerEnd: 101.0760
            estimatedDelay: 0.0282
            estimatedPhase: 2.3983

ans =

    "Results saved in MM_test_6.64_51_f3_d500_s10_c5.json"

Elapsed time is 8.051530 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367528 seconds.

preciseInterval =

      281650

ans =

    "Acquisition search 10.0% completed."

ans =

    "Acquisition search 20.0% completed."

ans =

```
    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0760
       idStartTime: 281648
    idDopplerShift: 55
             mean: 3.8469e-07
       meanSquare: 1.3387e-06
            phase: -2.2888


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."
```

```
ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 000100.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001111.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 110000000011101000010110 and CRC remainder 00001010110110100011100
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                  SV_ID: '001111'
             message_ID: '0000'
           message_body: '011110100001101011100011011110'
                    CRC: '110000000011101000010110'
```

```
                    ACKed: 0
              isACKmessage: 1
     estimatedDopplerStart: 93.4545
       estimatedDopplerEnd: 94.7487
            estimatedDelay: 0.0282
            estimatedPhase: 3.9944


ans =

    "Results saved in MM_test_2.32_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.031078 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.380111 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."
```

```
ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0469
       idStartTime: 281648
    idDopplerShift: 55
             mean: 1.1207e-07
       meanSquare: 1.1348e-06
            phase: -2.2892


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 110110.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001111.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 011010001011001100011000 and CRC remainder 111111001101101100001111
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                 version: "2"
           ACQUISITION_OK: 1
              TRACKING_OK: 1
           DEMODULATION_OK: 0
                    SV_ID: '001111'
               message_ID: '0000'
             message_body: '011101010011110111010100111001'
                      CRC: '011010001011001100011000'
                    ACKed: 0
              isACKmessage: 1
       estimatedDopplerStart: 93.4545
         estimatedDopplerEnd: 109.6310
              estimatedDelay: 0.0282
              estimatedPhase: 3.9940

ans =

    "Results saved in MM_test_2.99_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.040522 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.372252 seconds.

preciseInterval =

     281650

ans =

```
    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0302
       idStartTime: 281648
    idDopplerShift: 55
             mean: 2.8744e-07
       meanSquare: 1.0587e-06
            phase: -2.2775


ans =
```

```
    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
Warning: Error. Incorrect received tail 100010.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001111.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 11100100101010101010110110 and CRC remainder 110111100110100000111101
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =
```

```
  struct with fields:

                 version: "2"
         ACQUISITION_OK: 1
            TRACKING_OK: 1
        DEMODULATION_OK: 0
                  SV_ID: '001111'
             message_ID: '0001'
           message_body: '110000011000010001101011110101'
                    CRC: '111001001010101010110110'
                   ACKed: 0
            isACKmessage: 0
    estimatedDopplerStart: 93.4545
      estimatedDopplerEnd: 105.7490
           estimatedDelay: 0.0282
           estimatedPhase: 4.0057


ans =

    "Results saved in MM_test_3.65_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.528329 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367884 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =
```

```
    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0193
       idStartTime: 281648
    idDopplerShift: 55
             mean: 2.9340e-07
       meanSquare: 1.0310e-06
            phase: -2.2634


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."
```

```
ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 011011.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001111.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1001000010100000110000001 and CRC remainder 1100000010100010111111000
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '001111'
              message_ID: '0000'
            message_body: '001000100001000000100010001110'
                     CRC: '1001000010100000110000001'
                   ACKed: 0
             isACKmessage: 1
      estimatedDopplerStart: 93.4545
        estimatedDopplerEnd: 93.4546
             estimatedDelay: 0.0282
             estimatedPhase: 4.0198


ans =

    "Results saved in MM_test_4.32_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.343821 seconds.
.
ans =
```

```
    "Generation test signal completed."

Elapsed time is 0.382081 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:
```

```
        maxPeak: 0.0114
     idStartTime: 281648
  idDopplerShift: 55
            mean: 3.8141e-07
      meanSquare: 1.0144e-06
           phase: -2.2886


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 100011.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 000110.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 00010000011010110010011 and CRC remainder 010000101111001010011100
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '000110'
              message_ID: '0010'
            message_body: '000000110101000110001111110111'
                     CRC: '000100000110101100010011'
                    ACKed: 0
            isACKmessage: 1
     estimatedDopplerStart: 93.4545
       estimatedDopplerEnd: 88.9252
             estimatedDelay: 0.0282
             estimatedPhase: 3.9946


ans =

    "Results saved in MM_test_4.98_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.301961 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.368632 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =
```

```
    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

           maxPeak: 0.0097
        idStartTime: 281648
    idDopplerShift: 55
              mean: 7.7867e-08
        meanSquare: 1.0131e-06
             phase: -2.3626


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =
```

```
    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 100110.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 001111.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1100000100010000001010100 and CRC remainder 1111101111100010010110101
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                 version: "2"
         ACQUISITION_OK: 1
            TRACKING_OK: 1
        DEMODULATION_OK: 0
                  SV_ID: '001111'
             message_ID: '0001'
           message_body: '101000111100111110101000101110'
                    CRC: '1100000100010000001010100'
                   ACKed: 0
            isACKmessage: 0
    estimatedDopplerStart: 93.4545
      estimatedDopplerEnd: 86.3369
```

```
        estimatedDelay: 0.0282
        estimatedPhase: 3.9206
```

ans =

    "Results saved in MM_test_5.32_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.260811 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.371992 seconds.

preciseInterval =

      281650

ans =

    "Acquisition search 10.0% completed."

ans =

    "Acquisition search 20.0% completed."

ans =

    "Acquisition search 30.0% completed."

ans =

    "Acquisition search 40.0% completed."

ans =

    "Acquisition search 50.0% completed."

ans =

    "Acquisition search 60.0% completed."

ans =

    "Acquisition search 70.0% completed."

ans =

    "Acquisition search 80.0% completed."

ans =

```
    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

          maxPeak: 0.0076
      idStartTime: 281648
    idDopplerShift: 55
             mean: 2.8867e-07
       meanSquare: 1.0130e-06
            phase: -2.2719


ans =

    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
Warning: Error. Incorrect received tail 010111.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
```

In RECEIVERTest/globalTest (line 118)
Warning: Error. Incorrect received sync 0101100001.
> In MessageAnalyzer/validateAndSplitMessage (line 115)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 100001.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1110010110010011011101101 and CRC remainder 1011001001110111110010110
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."

ans =

    "DEMODULATION RESULT 0"

ans =

  struct with fields:

                version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                  SV_ID: '100001'
             message_ID: '1011'
           message_body: '100100000101000101011011100010'
                    CRC: '1110010110010011011101101'
                  ACKed: 0
           isACKmessage: 0
     estimatedDopplerStart: 93.4545
       estimatedDopplerEnd: 100.5720
            estimatedDelay: 0.0282
            estimatedPhase: 4.0113

ans =

    "Results saved in MM_test_5.65_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.313937 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.367579 seconds.

preciseInterval =

      281650

```
ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =

  struct with fields:

         maxPeak: 0.0057
      idStartTime: 281649
    idDopplerShift: 55
             mean: 2.0981e-07
       meanSquare: 1.0069e-06
            phase: -2.4078


ans =
```

```
    "Tracker step 1: demodulated 10 symbols."


ans =

    "Tracker step 2: demodulated 20 symbols."


ans =

    "Tracker step 3: demodulated 30 symbols."


ans =

    "Tracker step 4: demodulated 40 symbols."


ans =

    "Tracker step 5: demodulated 50 symbols."


ans =

    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."
```

Warning: Error. Incorrect received tail 111001.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 110001.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1010101110100001111110110 and CRC remainder 01010111111010101001000000
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

```
ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"
```

```
ans =

  struct with fields:

                 version: "2"
          ACQUISITION_OK: 1
             TRACKING_OK: 1
         DEMODULATION_OK: 0
                   SV_ID: '110001'
              message_ID: '1100'
            message_body: '011111100110010010110100011011'
                     CRC: '101010111010000111110110'
                    ACKed: 0
             isACKmessage: 1
     estimatedDopplerStart: 93.4545
       estimatedDopplerEnd: 102.5130
            estimatedDelay: 0.0282
            estimatedPhase: 3.8754


ans =

    "Results saved in MM_test_5.98_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.201194 seconds.
.
ans =

    "Generation test signal completed."

Elapsed time is 0.366590 seconds.

preciseInterval =

      281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =
```

"Acquisition search 60.0% completed."

ans =

    "Acquisition search 70.0% completed."

ans =

    "Acquisition search 80.0% completed."

ans =

    "Acquisition search 90.0% completed."

ans =

    "Acquisition search 100.0% completed."

ans =

  struct with fields:

          maxPeak: 0.0051
       idStartTime: 281648
    idDopplerShift: 55
             mean: 4.5674e-07
       meanSquare: 1.0083e-06
            phase: -2.2594

ans =

    "Tracker step 1: demodulated 10 symbols."

ans =

    "Tracker step 2: demodulated 20 symbols."

ans =

    "Tracker step 3: demodulated 30 symbols."

ans =

    "Tracker step 4: demodulated 40 symbols."

ans =

    "Tracker step 5: demodulated 50 symbols."

ans =

```
    "Tracker step 6: demodulated 60 symbols."


ans =

    "Tracker step 7: demodulated 70 symbols."


ans =

    "Tracker step 8: demodulated 80 symbols."

Warning: Error. Incorrect received tail 110010.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error. Not my message, incorrect received SV_ID 110010.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)
Warning: Error no ack: received CRC 1001101001000110101110110 and CRC remainder 11010101111001010110110
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 273)
In RECEIVERTest/globalTest (line 118)

ans =

    "Received message analyzed."


ans =

    "DEMODULATION RESULT 0"


ans =

  struct with fields:

                  version: "2"
            ACQUISITION_OK: 1
               TRACKING_OK: 1
            DEMODULATION_OK: 0
                    SV_ID: '110010'
               message_ID: '0100'
             message_body: '00101101111011111011110100100'
                      CRC: '1001101001000110101110110'
                    ACKed: 0
              isACKmessage: 1
       estimatedDopplerStart: 93.4545
         estimatedDopplerEnd: 105.7490
             estimatedDelay: 0.0282
             estimatedPhase: 4.0238


ans =

    "Results saved in MM_test_6.31_102.6_f3_d500_s10_c5.json"

Elapsed time is 8.182581 seconds.
.
```

```
ans =

    "Generation test signal completed."

Elapsed time is 0.376067 seconds.

preciseInterval =

     281650


ans =

    "Acquisition search 10.0% completed."


ans =

    "Acquisition search 20.0% completed."


ans =

    "Acquisition search 30.0% completed."


ans =

    "Acquisition search 40.0% completed."


ans =

    "Acquisition search 50.0% completed."


ans =

    "Acquisition search 60.0% completed."


ans =

    "Acquisition search 70.0% completed."


ans =

    "Acquisition search 80.0% completed."


ans =

    "Acquisition search 90.0% completed."


ans =

    "Acquisition search 100.0% completed."


ans =
```

```
    struct with fields:

            maxPeak: 0.0032
        idStartTime: 176015
     idDopplerShift: 46
               mean: 1.2365e-07
         meanSquare: 1.0082e-06
              phase: 2.5315
```

Warning: NO SIGNALS FOUND
> In RECEIVER (line 187)
In RECEIVERTest/globalTest (line 118)

ans =

    "Results saved in MM_test_6.64_102.6_f3_d500_s10_c5.json"

Elapsed time is 4.403971 seconds.
.
Done RECEIVERTest
_____

ans =

  1×2400 TestResult array with properties:

    Name
    Passed
    Failed
    Incomplete
    Duration
    Details

Totals:
   2400 Passed, 0 Failed, 0 Incomplete.
   29978.049 seconds testing time.

>>