

```
        ACKed: 1
        isACKmessage: 1
estimatedDopplerStart: 60.1010
estimatedDopplerEnd: 74.3360
estimatedDelay: 0.0282
estimatedPhase: 0.9260
```

```
ans =
```

```
"Results saved in MM_test_4.98_12.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.422412 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.346454 seconds.
```

```
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: 0.0087
idStartTime: 281653
idDopplerShift: 51
mean: -4.9613e-12
meanSquare: 4.7448e-09
phase: 0.9260

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."

ans =

"Received message analyzed."

ans =

"DEMODULATION RESULT 1"

ans =

struct with fields:

```
    version: "2"
  ACQUISITION_OK: 1
    TRACKING_OK: 1
  DEMODULATION_OK: 1
      SV_ID: '000001'
    message_ID: '0011'
  message_body: '010100110001110011001011101110'
        CRC: '000110111100100010100001'
      ACKed: 1
    isACKmessage: 1
estimatedDopplerStart: 60.1010
estimatedDopplerEnd: 74.3360
estimatedDelay: 0.0282
estimatedPhase: 0.9260
```

ans =

"Results saved in MM_test_5.32_12.6_f0_d1000_s10_c5.json"

Elapsed time is 7.408067 seconds.

.

ans =

"Generation test signal completed."

Elapsed time is 0.343639 seconds.

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: 0.0070  
        idStartTime: 281653  
        idDopplerShift: 51  
        mean: 1.6298e-09  
        meanSquare: 3.0025e-09  
        phase: 0.9260  
  
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."
```

```
ans =
```

```
"Received message analyzed."
```

```
ans =
```

```
"DEMODULATION RESULT 1"
```

```
ans =
```

```
struct with fields:
```

```
    version: "2"  
    ACQUISITION_OK: 1  
    TRACKING_OK: 1  
    DEMODULATION_OK: 1  
    SV_ID: '000001'  
    message_ID: '0011'  
    message_body: '010100110001110011001011101110'  
    CRC: '000110111100100010100001'  
    ACKed: 1  
    isACKmessage: 1  
    estimatedDopplerStart: 60.1010  
    estimatedDopplerEnd: 74.3360  
    estimatedDelay: 0.0282  
    estimatedPhase: 0.9260
```

```
ans =
```

```
"Results saved in MM_test_5.65_12.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.441957 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.342446 seconds.
```

```
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: 0.0055  
    idStartTime: 281653  
    idDopplerShift: 51  
           mean: 1.8526e-09  
    meanSquare: 1.9014e-09  
           phase: 0.9260
```

```
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."  
  
ans =  
    "Received message analyzed."  
  
ans =  
    "DEMODULATION RESULT 1"  
  
ans =  
    struct with fields:  
        version: "2"  
        ACQUISITION_OK: 1  
        TRACKING_OK: 1  
        DEMODULATION_OK: 1  
        SV_ID: '000001'  
        message_ID: '0011'  
        message_body: '010100110001110011001011101110'  
        CRC: '000110111100100010100001'  
        ACKed: 1  
        isACKmessage: 1  
        estimatedDopplerStart: 60.1010  
        estimatedDopplerEnd: 74.3360  
        estimatedDelay: 0.0282  
        estimatedPhase: 0.9260  
  
ans =
```

```
"Results saved in MM_test_5.98_12.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.412847 seconds.
```

```
.  
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.339569 seconds.
```

```
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: 0.0044  
    idStartTime: 281653  
    idDopplerShift: 51  
        mean: 1.5714e-09  
    meanSquare: 1.2031e-09  
        phase: 0.9260
```

```
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."
```

```
ans =
```

```
"Received message analyzed."
```

```
ans =
```

```
"DEMODULATION RESULT 1"
```

```
ans =
```

```
struct with fields:
```

```
        version: "2"
    ACQUISITION_OK: 1
    TRACKING_OK: 1
    DEMODULATION_OK: 1
        SV_ID: '000001'
        message_ID: '0011'
        message_body: '010100110001110011001011101110'
        CRC: '000110111100100010100001'
        ACKed: 1
        isACKmessage: 1
    estimatedDopplerStart: 60.1010
    estimatedDopplerEnd: 74.3360
    estimatedDelay: 0.0282
    estimatedPhase: 0.9260
```

ans =

```
"Results saved in MM_test_6.31_12.6_f0_d1000_s10_c5.json"
```

Elapsed time is 7.462113 seconds.

.
ans =

```
"Generation test signal completed."
```

Elapsed time is 0.343757 seconds.

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: 0.0035
idStartTime: 281653
idDopplerShift: 51
mean: 6.5411e-11
meanSquare: 7.6082e-10
phase: 0.9260

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."  
  
ans =  
    "Received message analyzed."  
  
ans =  
    "DEMODULATION RESULT 1"  
  
ans =  
    struct with fields:  
        version: "2"  
        ACQUISITION_OK: 1  
        TRACKING_OK: 1  
        DEMODULATION_OK: 1  
        SV_ID: '000001'  
        message_ID: '0011'  
        message_body: '010100110001110011001011101110'  
        CRC: '000110111100100010100001'  
        ACKed: 1  
        isACKmessage: 1  
        estimatedDopplerStart: 60.1010  
        estimatedDopplerEnd: 74.3360  
        estimatedDelay: 0.0282  
        estimatedPhase: 0.9260  
  
ans =  
    "Results saved in MM_test_6.64_12.6_f0_d1000_s10_c5.json"  
  
Elapsed time is 7.426391 seconds.  
.  
ans =  
    "Generation test signal completed."  
  
Elapsed time is 0.344808 seconds.  
  
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: 0.0878  
    idStartTime: 281651  
    idDopplerShift: 51  
        mean: 3.2118e-08  
    meanSquare: 3.0350e-07  
    phase: 1.9936
```

```
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 111111.
```

```
> In MessageAnalyzer/validateAndSplitMessage (line 110)
```

```
In MessageAnalyzer/analyzeMessage (line 71)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 00000000000000001000000
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010100110001110011001011101110'  
    CRC: '000110111100100011100001'  
    ACKed: 0  
    isACKmessage: 1  
    estimatedDopplerStart: 60.1010  
    estimatedDopplerEnd: 82.1007  
    estimatedDelay: 0.0282  
    estimatedPhase: 1.9936
```

```
ans =
```

```
"Results saved in MM_test_2.32_25.4_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.482378 seconds.
```

```
.  
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.351926 seconds.
```

```
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: 0.0552
    idStartTime: 281651
    idDopplerShift: 51
        mean: 2.2468e-08
    meanSquare: 1.1987e-07
        phase: 1.9936
```

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 111111.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 0000000000000000100000

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010100110001110011001011101110'
        CRC: '000110111100100011100001'
    ACKed: 0
  isACKmessage: 1
estimatedDopplerStart: 60.1010
estimatedDopplerEnd: 82.1007
estimatedDelay: 0.0282
estimatedPhase: 1.9936
```

ans =

"Results saved in MM_test_2.99_25.4_f0_d1000_s10_c5.json"

Elapsed time is 7.506407 seconds.

.

ans =

"Generation test signal completed."

Elapsed time is 0.371895 seconds.

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: 0.0349  
        idStartTime: 281651  
        idDopplerShift: 51  
        mean: 1.4738e-08  
        meanSquare: 4.8006e-08  
        phase: 1.9936  
  
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 111111.
```

```
> In MessageAnalyzer/validateAndSplitMessage (line 110)
```

```
In MessageAnalyzer/analyzeMessage (line 71)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 00000000000000001000000
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010100110001110011001011101110'  
    CRC: '000110111100100011100001'  
    ACKed: 0  
    isACKmessage: 1  
    estimatedDopplerStart: 60.1010  
    estimatedDopplerEnd: 82.1007  
    estimatedDelay: 0.0282  
    estimatedPhase: 1.9936
```

```
ans =
```

```
"Results saved in MM_test_3.65_25.4_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.485769 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

Elapsed time is 0.354073 seconds.

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: 0.0219
   idStartTime: 281651
 idDopplerShift: 51
         mean: 3.6566e-09
   meanSquare: 1.8983e-08
         phase: 1.9936
```

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 111111.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 0000000000000000100000

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010100110001110011001011101110'
        CRC: '000110111100100011100001'
        ACKed: 0
        isACKmessage: 1
    estimatedDopplerStart: 60.1010
    estimatedDopplerEnd: 82.1007
    estimatedDelay: 0.0282
    estimatedPhase: 1.9936
```

ans =

```
"Results saved in MM_test_4.32_25.4_f0_d1000_s10_c5.json"
```

Elapsed time is 7.468560 seconds.

.

ans =

```
"Generation test signal completed."
```

Elapsed time is 0.357416 seconds.

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: 0.0139
   idStartTime: 281651
idDopplerShift: 51
         mean: 2.9249e-09
   meanSquare: 7.5993e-09
         phase: 1.9936
```

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 111111.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 00000000000000001000000

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010100110001110011001011101110'
    CRC: '000110111100100011100001'
    ACKed: 0
  isACKmessage: 1
estimatedDopplerStart: 60.1010
estimatedDopplerEnd: 82.1007
estimatedDelay: 0.0282
estimatedPhase: 1.9936
```

ans =

"Results saved in MM_test_4.98_25.4_f0_d1000_s10_c5.json"

Elapsed time is 7.448863 seconds.

.

ans =

"Generation test signal completed."

Elapsed time is 0.360787 seconds.

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: 0.0110  
    idStartTime: 281651  
    idDopplerShift: 51  
           mean: 2.7628e-10  
    meanSquare: 4.7436e-09  
           phase: 1.9936
```

```
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 111111.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 0000000000000000100000

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010100110001110011001011101110'
        CRC: '000110111100100011100001'
```

```
        ACKed: 0
        isACKmessage: 1
estimatedDopplerStart: 60.1010
estimatedDopplerEnd: 82.1007
estimatedDelay: 0.0282
estimatedPhase: 1.9936
```

```
ans =
```

```
"Results saved in MM_test_5.32_25.4_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.460733 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.355036 seconds.
```

```
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: 0.0087
idStartTime: 281651
idDopplerShift: 51
mean: 3.0377e-09
meanSquare: 3.0024e-09
phase: 1.9936

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 111111.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)

```
Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 00000000000000001000000
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)
```

```
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: '010100110001110011001011101110'
        CRC: '000110111100100011100001'
    ACKed: 0
  isACKmessage: 1
estimatedDopplerStart: 60.1010
estimatedDopplerEnd: 82.1007
estimatedDelay: 0.0282
estimatedPhase: 1.9936
```

```
ans =
```

```
"Results saved in MM_test_5.65_25.4_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.451576 seconds.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.353643 seconds.
```

```
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: 0.0069  
    idStartTime: 281651  
    idDopplerShift: 51  
        mean: 1.4689e-09  
    meanSquare: 1.8998e-09  
    phase: 1.9936
```

```
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 111111.
```

```
> In MessageAnalyzer/validateAndSplitMessage (line 110)
```

```
In MessageAnalyzer/analyzeMessage (line 71)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 00000000000000001000000
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010100110001110011001011101110'  
        CRC: '000110111100100011100001'  
    ACKed: 0  
  isACKmessage: 1  
estimatedDopplerStart: 60.1010  
estimatedDopplerEnd: 82.1007  
estimatedDelay: 0.0282  
estimatedPhase: 1.9936
```

```
ans =
```

```
"Results saved in MM_test_5.98_25.4_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.476943 seconds.
```

```
.  
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.343009 seconds.
```

```
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: 0.0055
    idStartTime: 281651
    idDopplerShift: 51
        mean: 1.2485e-09
    meanSquare: 1.2018e-09
        phase: 1.9936
```

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 111111.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 000110111100100011100001 and CRC remainder 0000000000000000100000

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010100110001110011001011101110'
        CRC: '000110111100100011100001'
    ACKed: 0
  isACKmessage: 1
estimatedDopplerStart: 60.1010
estimatedDopplerEnd: 82.1007
estimatedDelay: 0.0282
estimatedPhase: 1.9936
```

ans =

"Results saved in MM_test_6.31_25.4_f0_d1000_s10_c5.json"

Elapsed time is 7.467816 seconds.

.

ans =

"Generation test signal completed."

Elapsed time is 0.345073 seconds.

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: 0.0044  
        idStartTime: 281651  
        idDopplerShift: 51  
        mean: 6.4611e-10  
        meanSquare: 7.6060e-10  
        phase: 1.9936  
  
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 no ack: received CRC 000110111100100100011110 and CRC remainder 000000000000000110111111  
> In MessageAnalyzer/analyzeMessage (line 85)  
In RECEIVER (line 259)  
In RECEIVERTest/globalTest (line 109)
```

```
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: '010100110001110011001011101110'  
    CRC: '000110111100100100011110'  
    ACKed: 0  
    isACKmessage: 1  
    estimatedDopplerStart: 60.1010  
    estimatedDopplerEnd: 82.1007  
    estimatedDelay: 0.0282  
    estimatedPhase: 1.9936
```

```
ans =
```

```
"Results saved in MM_test_6.64_25.4_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.461923 seconds.
```

```
.  
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.356437 seconds.
```

```
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: 0.0666  
        idStartTime: 281652  
        idDopplerShift: 52  
        mean: 2.8661e-08  
        meanSquare: 3.0341e-07  
        phase: 1.4505  
  
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 111010.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Incorrect received sync 1010011111.

> In MessageAnalyzer/validateAndSplitMessage (line 115)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Not my message, incorrect received SV_ID 111110.

> In MessageAnalyzer/validateAndSplitMessage (line 120)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

ans =

"Received message analyzed."

ans =

"DEMULATION RESULT 0"

ans =

struct with fields:

```
    version: "2"
  ACQUISITION_OK: 1
    TRACKING_OK: 1
  DEMODULATION_OK: 0
    SV_ID: '111110'
   message_ID: '1100'
 message_body: '101011001110001100001000100110'
        CRC: '001001011100011110011000'
    ACKed: 0
   isACKmessage: 0
estimatedDopplerStart: 80.3030
estimatedDopplerEnd: 102.3030
estimatedDelay: 0.0282
estimatedPhase: 1.4505
```

ans =

"Results saved in MM_test_2.32_51_f0_d1000_s10_c5.json"

Elapsed time is 7.449262 seconds.

.
ans =

"Generation test signal completed."

Elapsed time is 0.357351 seconds.

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: 0.0419
    idStartTime: 281652
    idDopplerShift: 52
        mean: 6.8702e-09
    meanSquare: 1.1980e-07
        phase: 1.4505
```

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 111010.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Incorrect received sync 1010011111.

> In MessageAnalyzer/validateAndSplitMessage (line 115)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Not my message, incorrect received SV_ID 111110.

> In MessageAnalyzer/validateAndSplitMessage (line 120)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '111110'

message_ID: '1100'

message_body: '101011001110001100001000100110'

CRC: '001001011100011110011000'

ACKed: 0

isACKmessage: 0

estimatedDopplerStart: 80.3030

estimatedDopplerEnd: 102.3030

estimatedDelay: 0.0282

estimatedPhase: 1.4505

ans =

"Results saved in MM_test_2.99_51_f0_d1000_s10_c5.json"

Elapsed time is 7.442882 seconds.

.
ans =

"Generation test signal completed."

Elapsed time is 0.356372 seconds.

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: 0.0265

```
idStartTime: 281652
idDopplerShift: 52
    mean: 4.5351e-09
    meanSquare: 4.8002e-08
    phase: 1.4505
```

```
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 111010.
```

```
> In MessageAnalyzer/validateAndSplitMessage (line 110)
```

```
In MessageAnalyzer/analyzeMessage (line 71)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error. Incorrect received sync 1010011111.
```

```
> In MessageAnalyzer/validateAndSplitMessage (line 115)
```

```
In MessageAnalyzer/analyzeMessage (line 71)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error. Not my message, incorrect received SV_ID 111110.
```

```
> In MessageAnalyzer/validateAndSplitMessage (line 120)
```

```
In MessageAnalyzer/analyzeMessage (line 71)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '111110'
    message_ID: '1100'
  message_body: '101011001110001100001000100110'
        CRC: '001001011100011110011000'
      ACKed: 0
    isACKmessage: 0
estimatedDopplerStart: 80.3030
estimatedDopplerEnd: 102.3030
estimatedDelay: 0.0282
estimatedPhase: 1.4505
```

ans =

"Results saved in MM_test_3.65_51_f0_d1000_s10_c5.json"

Elapsed time is 7.456392 seconds.

.

ans =

"Generation test signal completed."

Elapsed time is 0.364438 seconds.

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: 0.0167  
        idStartTime: 281652  
        idDopplerShift: 52  
        mean: 2.0291e-09  
        meanSquare: 1.8956e-08  
        phase: 1.4505  
  
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 111010.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Incorrect received sync 1010011111.

> In MessageAnalyzer/validateAndSplitMessage (line 115)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Not my message, incorrect received SV_ID 111110.

> In MessageAnalyzer/validateAndSplitMessage (line 120)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '111110'
  message_ID: '1100'
  message_body: '101011001110001100001000100110'
    CRC: '001001011100011110011000'
    ACKed: 0
```

```
        isACKmessage: 0
estimatedDopplerStart: 80.3030
estimatedDopplerEnd: 102.3030
estimatedDelay: 0.0282
estimatedPhase: 1.4505
```

```
ans =
```

```
"Results saved in MM_test_4.32_51_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.438813 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.358789 seconds.
```

```
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: 1.9439e-09
meanSquare: 7.5919e-09
phase: 1.4505

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 111010.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)
Warning: Error. Incorrect received sync 1010011111.


```
> In MessageAnalyzer/validateAndSplitMessage (line 115)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)
Warning: Error. Not my message, incorrect received SV_ID 111110.
> In MessageAnalyzer/validateAndSplitMessage (line 120)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)
Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010
> In MessageAnalyzer/analyzeMessage (line 85)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)
```

```
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: '111110'
  message_ID: '1100'
  message_body: '101011001110001100001000100110'
        CRC: '001001011100011110011000'
      ACKed: 0
  isACKmessage: 0
estimatedDopplerStart: 80.3030
estimatedDopplerEnd: 102.3030
estimatedDelay: 0.0282
estimatedPhase: 1.4505
```

```
ans =
```

```
"Results saved in MM_test_4.98_51_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.468251 seconds.
```

```
.
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.364417 seconds.
```

```
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: 281652  
    idDopplerShift: 52  
           mean: 4.0330e-09  
    meanSquare: 4.7454e-09  
           phase: 1.4505
```

```
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 111010.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Incorrect received sync 1010011111.

> In MessageAnalyzer/validateAndSplitMessage (line 115)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Not my message, incorrect received SV_ID 111110.

> In MessageAnalyzer/validateAndSplitMessage (line 120)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '111110'  
    message_ID: '1100'  
    message_body: '1010110011110001100001000100110'  
    CRC: '001001011100011110011000'  
    ACKed: 0  
    isACKmessage: 0  
    estimatedDopplerStart: 80.3030  
    estimatedDopplerEnd: 102.3030  
    estimatedDelay: 0.0282  
    estimatedPhase: 1.4505
```

ans =

```
"Results saved in MM_test_5.32_51_f0_d1000_s10_c5.json"
```

Elapsed time is 7.466491 seconds.

.

ans =

```
"Generation test signal completed."
```

Elapsed time is 0.357153 seconds.

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: 1.0166e-09  
        meanSquare: 3.0000e-09  
        phase: 1.4505  
  
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 111010.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Incorrect received sync 1010011111.

> In MessageAnalyzer/validateAndSplitMessage (line 115)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Not my message, incorrect received SV_ID 111110.

> In MessageAnalyzer/validateAndSplitMessage (line 120)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '111110'
    message_ID: '1100'
    message_body: '101011001110001100001000100110'
    CRC: '001001011100011110011000'
    ACKed: 0
    isACKmessage: 0
    estimatedDopplerStart: 80.3030
    estimatedDopplerEnd: 102.3030
    estimatedDelay: 0.0282
    estimatedPhase: 1.4505

```

ans =

"Results saved in MM_test_5.65_51_f0_d1000_s10_c5.json"

Elapsed time is 7.425389 seconds.

.
ans =

```
"Generation test signal completed."
```

```
Elapsed time is 0.356240 seconds.
```

```
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: 0.0053
```

```
   idStartTime: 281652
```

```
 idDopplerShift: 52
```

```
        mean: 2.5010e-09
```

```
    meanSquare: 1.9002e-09
```

phase: 1.4505

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 111010.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Incorrect received sync 1010011111.

> In MessageAnalyzer/validateAndSplitMessage (line 115)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Not my message, incorrect received SV_ID 111110.

> In MessageAnalyzer/validateAndSplitMessage (line 120)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 001001011100011110011000 and CRC remainder 010011000100110101100010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '111110'  
  message_ID: '1100'  
  message_body: '101011001110001100001000100110'  
    CRC: '001001011100011110011000'  
    ACKed: 0  
  isACKmessage: 0  
estimatedDopplerStart: 80.3030  
estimatedDopplerEnd: 102.3030  
estimatedDelay: 0.0282  
estimatedPhase: 1.4505
```

```
ans =
```

```
"Results saved in MM_test_5.98_51_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.471371 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.346957 seconds.
```

```
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: 0.0042  
   idStartTime: 281652  
idDopplerShift: 52  
        mean: 8.2240e-10  
   meanSquare: 1.2011e-09  
        phase: 1.4505
```

```
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 000101.

> In MessageAnalyzer/validateAndSplitMessage (line 110)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Incorrect received sync 1010011111.

> In MessageAnalyzer/validateAndSplitMessage (line 115)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error. Not my message, incorrect received SV_ID 111110.

> In MessageAnalyzer/validateAndSplitMessage (line 120)

In MessageAnalyzer/analyzeMessage (line 71)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 001001011100011110010111 and CRC remainder 000101011011000111111100

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '111110'
    message_ID: '1100'
    message_body: '101011001110001100001001100110'
    CRC: '001001011100011110010111'
    ACKed: 0
    isACKmessage: 0
    estimatedDopplerStart: 80.3030
    estimatedDopplerEnd: 102.3030
    estimatedDelay: 0.0282

```

estimatedPhase: 1.4505

ans =

"Results saved in MM_test_6.31_51_f0_d1000_s10_c5.json"

Elapsed time is 7.464849 seconds.

.

ans =

"Generation test signal completed."

Elapsed time is 0.345618 seconds.

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: 0.0033
   idStartTime: 281652
 idDopplerShift: 52
         mean: 8.7861e-10
   meanSquare: 7.6056e-10
         phase: 1.4505
```

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 000101.
> In MessageAnalyzer/validateAndSplitMessage (line 110)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)
Warning: Error. Incorrect received sync 1010011111.
> In MessageAnalyzer/validateAndSplitMessage (line 115)
In MessageAnalyzer/analyzeMessage (line 71)
In RECEIVER (line 259)
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error. Not my message, incorrect received SV_ID 111110.  
> In MessageAnalyzer/validateAndSplitMessage (line 120)  
In MessageAnalyzer/analyzeMessage (line 71)  
In RECEIVER (line 259)  
In RECEIVERTest/globalTest (line 109)  
Warning: Error no ack: received CRC 001001011100011110010111 and CRC remainder 010011000100110101101  
> In MessageAnalyzer/analyzeMessage (line 85)  
In RECEIVER (line 259)  
In RECEIVERTest/globalTest (line 109)
```

```
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: '111110'  
    message_ID: '1100'  
    message_body: '101011001110001100001000100110'  
    CRC: '001001011100011110010111'  
    ACKed: 0  
    isACKmessage: 0  
    estimatedDopplerStart: 80.3030  
    estimatedDopplerEnd: 102.3030  
    estimatedDelay: 0.0282  
    estimatedPhase: 1.4505
```

```
ans =
```

```
"Results saved in MM_test_6.64_51_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.467706 seconds.
```

```
.  
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.344360 seconds.
```

```
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: 0.0766  
    idStartTime: 281649  
    idDopplerShift: 53  
        mean: 5.1916e-08  
    meanSquare: 3.0356e-07  
        phase: -3.1342
```

```
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 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 0000110110110111000111 and CRC remainder 011001000100010001001010
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010110110001101110111001000100'
```

```
        CRC: '0000110110110111000111'
```

```
    ACKed: 0
```

```
  isACKmessage: 1
```

```
estimatedDopplerStart: 100.5050
```

```
estimatedDopplerEnd: 103.0930
```



```
estimatedDelay: 0.0282  
estimatedPhase: 3.1490
```

```
ans =
```

```
"Results saved in MM_test_2.32_102.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.419796 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.356049 seconds.
```

```
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: 0.0481
   idStartTime: 281649
 idDopplerShift: 53
         mean: 1.5275e-08
   meanSquare: 1.1993e-07
         phase: -3.1342
```

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 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 000011011010111011000111 and CRC remainder 011001000100010001001010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010110110001101110111001000100'
    CRC: '000011011010111011000111'
    ACKed: 0
    isACKmessage: 1
estimatedDopplerStart: 100.5050
estimatedDopplerEnd: 103.0930
estimatedDelay: 0.0282
estimatedPhase: 3.1490
```

ans =

"Results saved in MM_test_2.99_102.6_f0_d1000_s10_c5.json"

Elapsed time is 7.412179 seconds.

.
ans =

"Generation test signal completed."

Elapsed time is 0.370546 seconds.

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: 0.0305  
        idStartTime: 281649  
        idDopplerShift: 53  
        mean: 8.6567e-09  
        meanSquare: 4.7988e-08  
        phase: -3.1342  
  
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 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 000011011010111011000111 and CRC remainder 011001000100010001001010
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010110110001101110111001000100'
        CRC: '000011011010111011000111'
    ACKed: 0
  isACKmessage: 1
estimatedDopplerStart: 100.5050
estimatedDopplerEnd: 103.0930
estimatedDelay: 0.0282
estimatedPhase: 3.1490
```

```
ans =
```

```
"Results saved in MM_test_3.65_102.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.406756 seconds.
```

```
.  
ans =  
  
    "Generation test signal completed."  
  
Elapsed time is 0.358912 seconds.  
  
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: 0.0191  
        idStartTime: 281649
```

```
idDopplerShift: 53
    mean: 4.7177e-09
    meanSquare: 1.8978e-08
    phase: -3.1342
```

```
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 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 000011011010111011000111 and CRC remainder 011001000100010001001010
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010110110001101110111001000100'
        CRC: '000011011010111011000111'
    ACKed: 0
   isACKmessage: 1
estimatedDopplerStart: 100.5050
estimatedDopplerEnd: 103.0930
estimatedDelay: 0.0282
estimatedPhase: 3.1490
```

ans =

"Results saved in MM_test_4.32_102.6_f0_d1000_s10_c5.json"

Elapsed time is 7.435516 seconds.

.
ans =

"Generation test signal completed."

Elapsed time is 0.361688 seconds.

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: 0.0121
idStartTime: 281649
idDopplerShift: 53
mean: 6.5446e-09
meanSquare: 7.6002e-09
phase: -3.1342

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 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 00001101101110111000111 and CRC remainder 011001000100010001001010

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010110110001101110111001000100'
    CRC: '00001101101110111000111'
    ACKed: 0
    isACKmessage: 1
estimatedDopplerStart: 100.5050
estimatedDopplerEnd: 103.0930
estimatedDelay: 0.0282
estimatedPhase: 3.1490
```

ans =

"Results saved in MM_test_4.98_102.6_f0_d1000_s10_c5.json"

Elapsed time is 7.455888 seconds.

.

ans =

"Generation test signal completed."

Elapsed time is 0.360054 seconds.

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: 0.0096  
   idStartTime: 281649  
idDopplerShift: 53  
        mean: 5.9938e-09  
   meanSquare: 4.7435e-09  
        phase: -3.1342
```

```
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 259)  
In RECEIVERTest/globalTest (line 109)  
Warning: Error no ack: received CRC 000011011010111000111 and CRC remainder 011001000100010001010  
> In MessageAnalyzer/analyzeMessage (line 85)  
In RECEIVER (line 259)  
In RECEIVERTest/globalTest (line 109)
```

```
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: '010110110001101110111001000100'
CRC: '000011011010111011000111'
ACKed: 0
isACKmessage: 1
estimatedDopplerStart: 100.5050
estimatedDopplerEnd: 103.0930
estimatedDelay: 0.0282
estimatedPhase: 3.1490
```

ans =

"Results saved in MM_test_5.32_102.6_f0_d1000_s10_c5.json"

Elapsed time is 7.408160 seconds.

.
ans =

"Generation test signal completed."

Elapsed time is 0.360645 seconds.

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: 281649
idDopplerShift: 53
mean: 2.7424e-09
meanSquare: 3.0005e-09
phase: -3.1342

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 259)  
In RECEIVERTest/globalTest (line 109)  
Warning: Error no ack: received CRC 000011011010111000111000 and CRC remainder 011001000100010010110101  
> In MessageAnalyzer/analyzeMessage (line 85)  
In RECEIVER (line 259)  
In RECEIVERTest/globalTest (line 109)
```

```
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: '010110110001101110111001000100'  
    CRC: '000011011010111000111000'  
    ACKed: 0  
    isACKmessage: 1  
    estimatedDopplerStart: 100.5050  
    estimatedDopplerEnd: 103.0930  
    estimatedDelay: 0.0282  
    estimatedPhase: 3.1490
```

```
ans =
```

```
"Results saved in MM_test_5.65_102.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.409419 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.361068 seconds.
```

```
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: 0.0061  
    idStartTime: 281649  
    idDopplerShift: 53  
        mean: 3.0785e-09  
    meanSquare: 1.9001e-09  
        phase: -3.1342
```

```
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 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 111100100101000100111000 and CRC remainder 10111000000111111011000
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010110110001101110111001000011'
```

```
        CRC: '111100100101000100111000'
```

```
    ACKed: 0
```

```
  isACKmessage: 1
```

```
estimatedDopplerStart: 100.5050
```

```
estimatedDopplerEnd: 103.0930
```

```
estimatedDelay: 0.0282
estimatedPhase: 3.1490
```

```
ans =
```

```
"Results saved in MM_test_5.98_102.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.435510 seconds.
```

```
.
```

```
ans =
```

```
"Generation test signal completed."
```

```
Elapsed time is 0.357703 seconds.
```

```
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: 0.0048
   idStartTime: 281649
 idDopplerShift: 53
         mean: 1.0529e-09
   meanSquare: 1.2017e-09
         phase: -3.1342
```

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 259)

In RECEIVERTest/globalTest (line 109)

Warning: Error no ack: received CRC 111100100101000100111000 and CRC remainder 10111000000111111011000

> In MessageAnalyzer/analyzeMessage (line 85)

In RECEIVER (line 259)

In RECEIVERTest/globalTest (line 109)

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: '010110110001101110111001000011'
        CRC: '111100100101000100111000'
      ACKed: 0
   isACKmessage: 1
estimatedDopplerStart: 100.5050
estimatedDopplerEnd: 103.0930
    estimatedDelay: 0.0282
    estimatedPhase: 3.1490
```

ans =

"Results saved in MM_test_6.31_102.6_f0_d1000_s10_c5.json"

Elapsed time is 7.440615 seconds.

.
ans =

"Generation test signal completed."

Elapsed time is 0.361538 seconds.

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: 0.0038  
        idStartTime: 281649  
        idDopplerShift: 53  
        mean: 2.0840e-09  
        meanSquare: 7.6102e-10  
        phase: -3.1342  
  
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 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
Warning: Error no ack: received CRC 000011011010111000111000 and CRC remainder 011001000100010010110101
```

```
> In MessageAnalyzer/analyzeMessage (line 85)
```

```
In RECEIVER (line 259)
```

```
In RECEIVERTest/globalTest (line 109)
```

```
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: '010110110001101110111001000100'
```

```
    CRC: '000011011010111000111000'
```

```
    ACKed: 0
```

```
  isACKmessage: 1
```

```
estimatedDopplerStart: 100.5050
```

```
estimatedDopplerEnd: 103.0930
```

```
estimatedDelay: 0.0282
```

```
estimatedPhase: 3.1490
```

```
ans =
```

```
"Results saved in MM_test_6.64_102.6_f0_d1000_s10_c5.json"
```

```
Elapsed time is 7.437785 seconds.
```

.
Done RECEIVERTest

ans =

1×1200 TestResult array with properties:

Name
Passed
Failed
Incomplete
Duration
Details

Totals:

1200 Passed, 0 Failed, 0 Incomplete.
9463.5507 seconds testing time.

Error using uiimport (line 80)
Cannot open the Import Wizard on a file while the Import Wizard is open.

>>