

# T-Coil Signal Test Report

Measurement performed on September 02, 2024 at 10:38

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

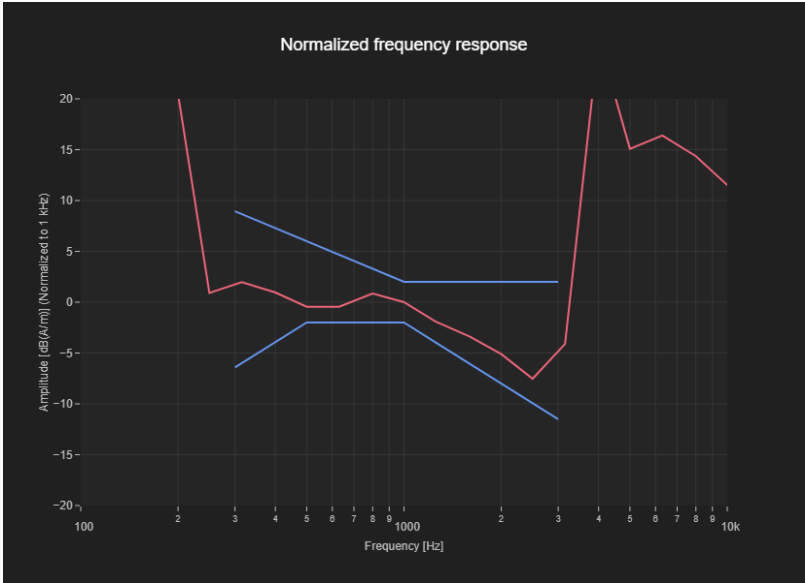
|           |                            |         |                 |
|-----------|----------------------------|---------|-----------------|
| Band Name | Communication Systems Name | Channel | Frequency [MHz] |
| GSM 850   | GSM-FDD (TDMA, GMSK)       | 190     | 836.6           |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 1.56                    |



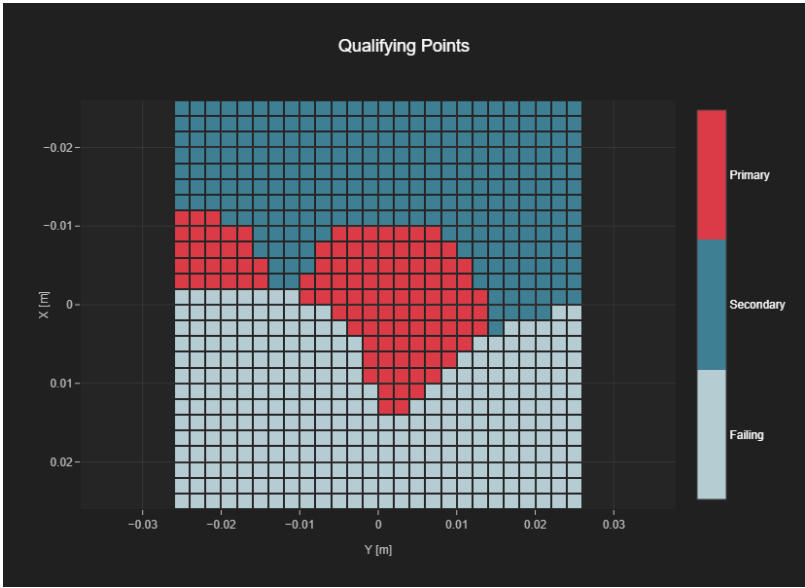
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 116                                  | 377                         | 20                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 02, 2024 at 13:54

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

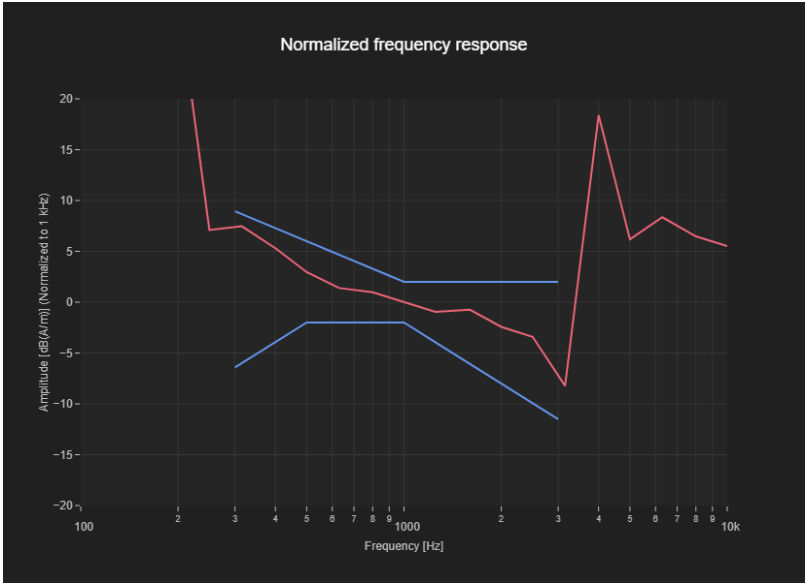
|           |                            |         |                 |
|-----------|----------------------------|---------|-----------------|
| Band Name | Communication Systems Name | Channel | Frequency [MHz] |
| Band 5    | UMTS-FDD (WCDMA)           | 4183    | 836.6           |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 1.56                    | 2.0                     |



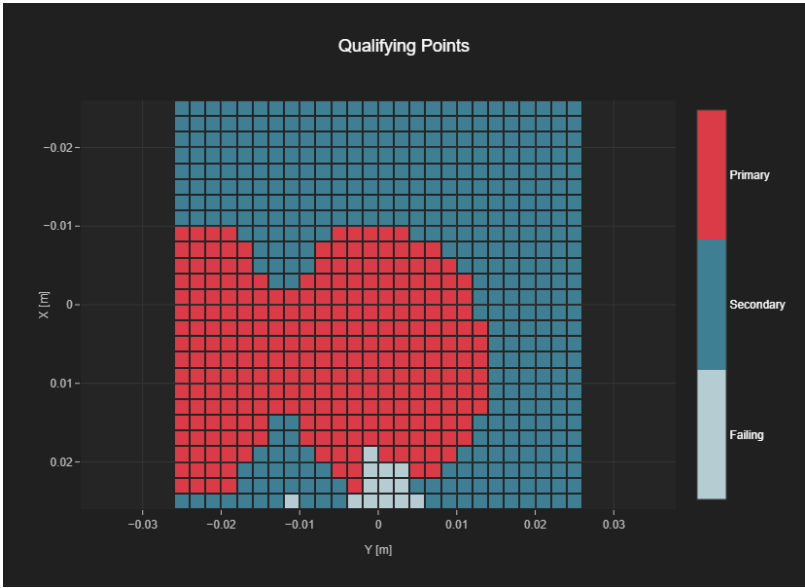
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 271                                  | 663                         | 26                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 10:20

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

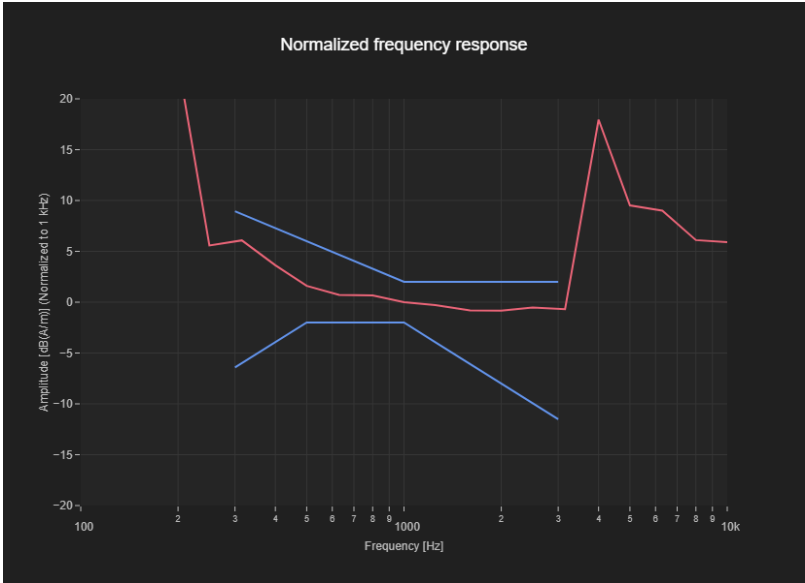
|           |                                         |         |                 |
|-----------|-----------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name              | Channel | Frequency [MHz] |
| Band 66   | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | 132322  | 1745.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 2.0                     |



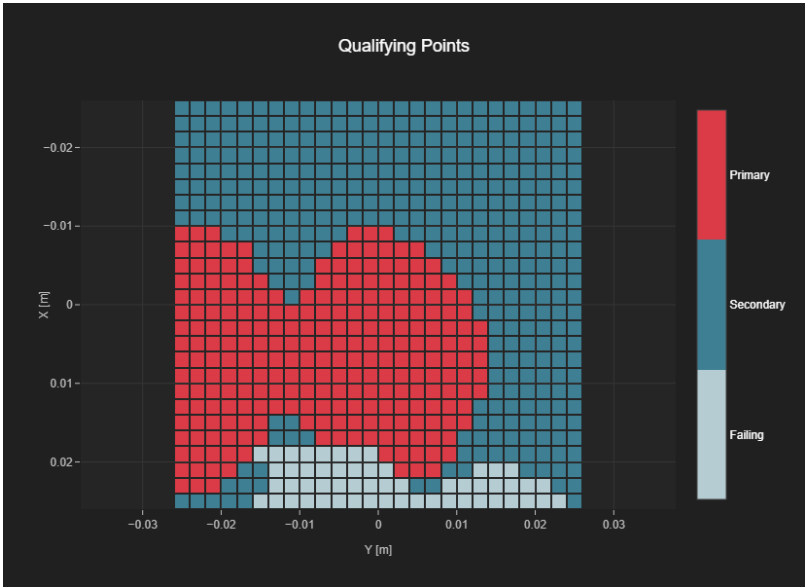
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 253                                  | 621                         | 26                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 06, 2024 at 18:12

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

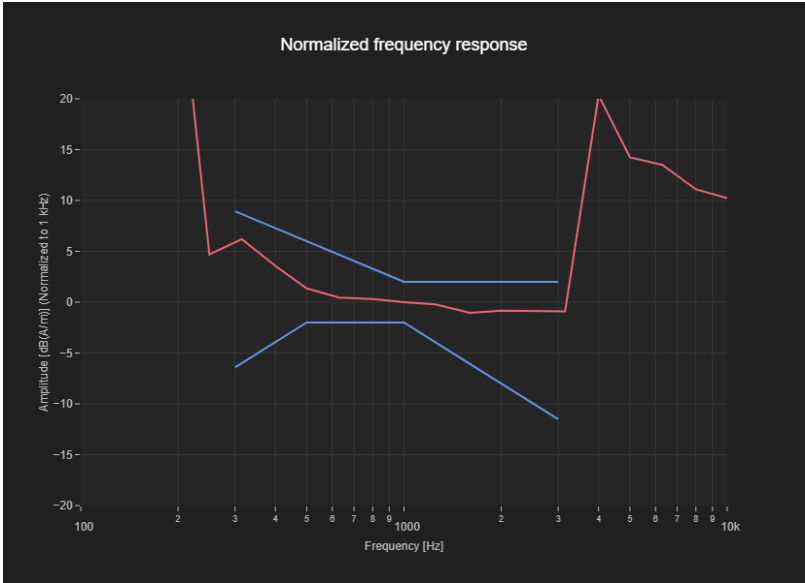
|           |                                       |         |                 |
|-----------|---------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name            | Channel | Frequency [MHz] |
| Band 48   | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | 55773   | 3603.3          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 2.0                     |



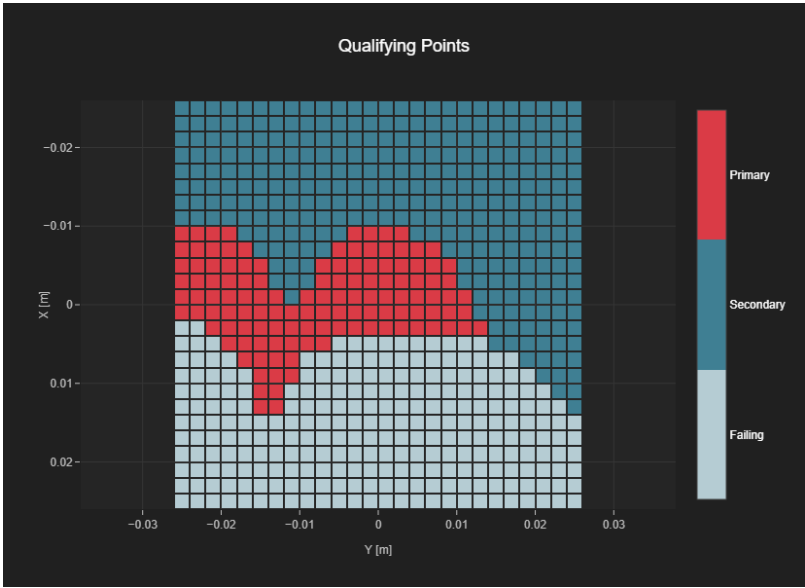
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 123                                  | 422                         | 20                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 19, 2024 at 17:16

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

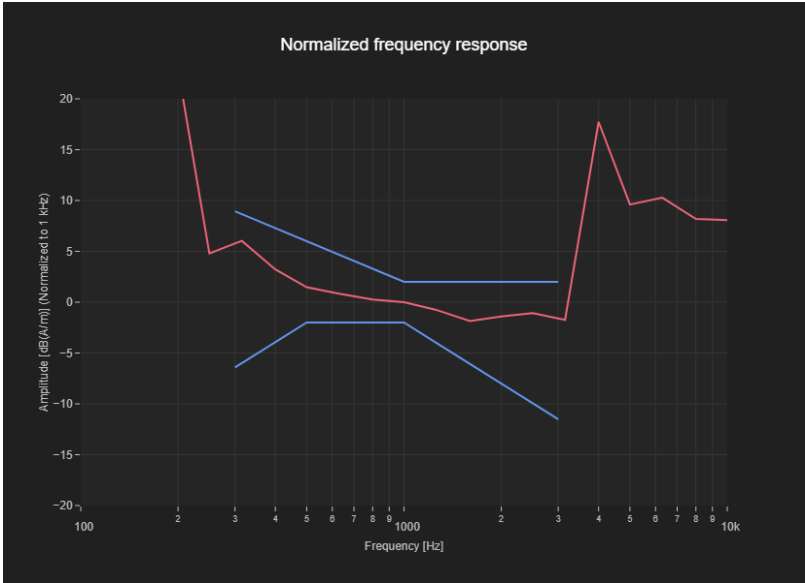
|           |                                                |         |                 |
|-----------|------------------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name                     | Channel | Frequency [MHz] |
| Band n66  | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 349000  | 1745.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 2.0                     |



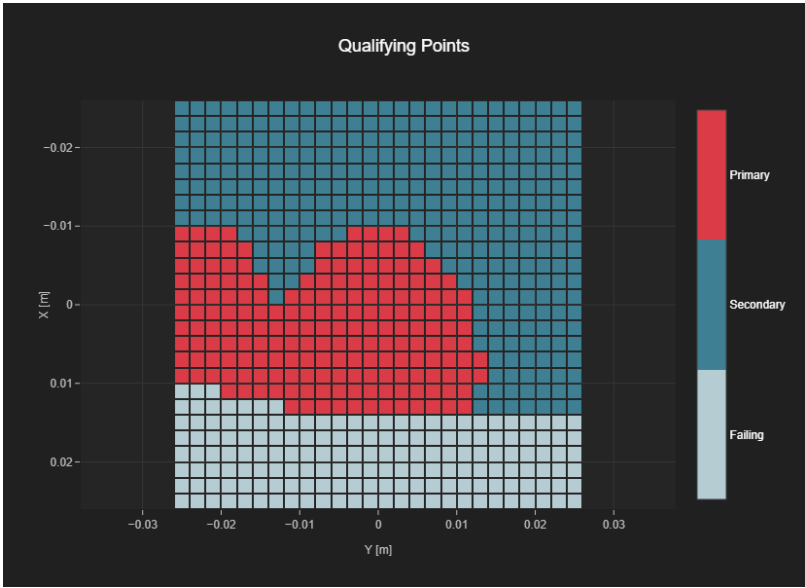
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 192                                  | 510                         | 20                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 19, 2024 at 17:54

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

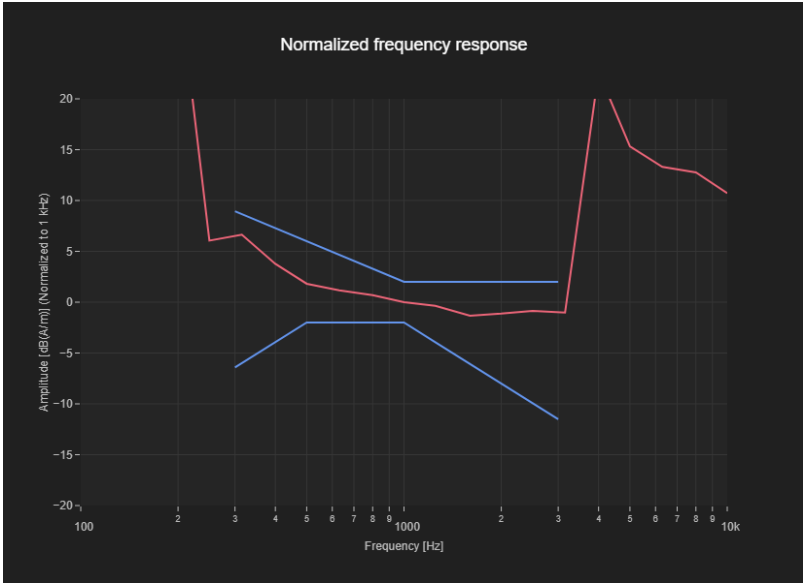
|           |                                                 |         |                 |
|-----------|-------------------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name                      | Channel | Frequency [MHz] |
| Band n77  | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 650000  | 3750.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 2.0                     |



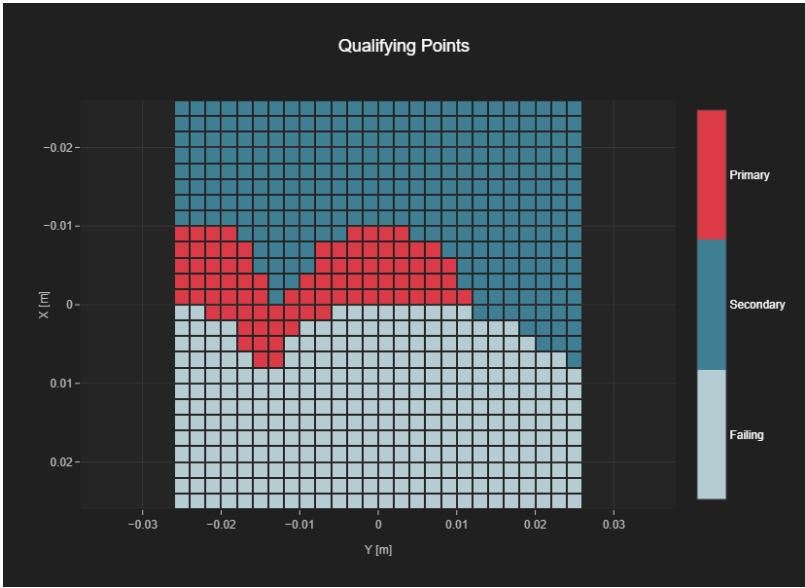
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 86                                   | 370                         | 17                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 09, 2024 at 15:08

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

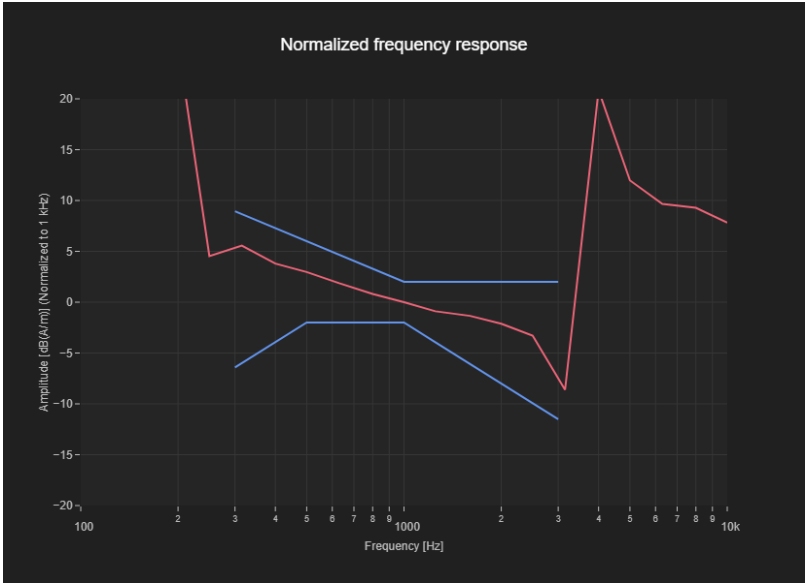
|             |                                          |         |                 |
|-------------|------------------------------------------|---------|-----------------|
| Band Name   | Communication Systems Name               | Channel | Frequency [MHz] |
| WLAN 2.4GHz | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | 6       | 2437.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 2.0                     |



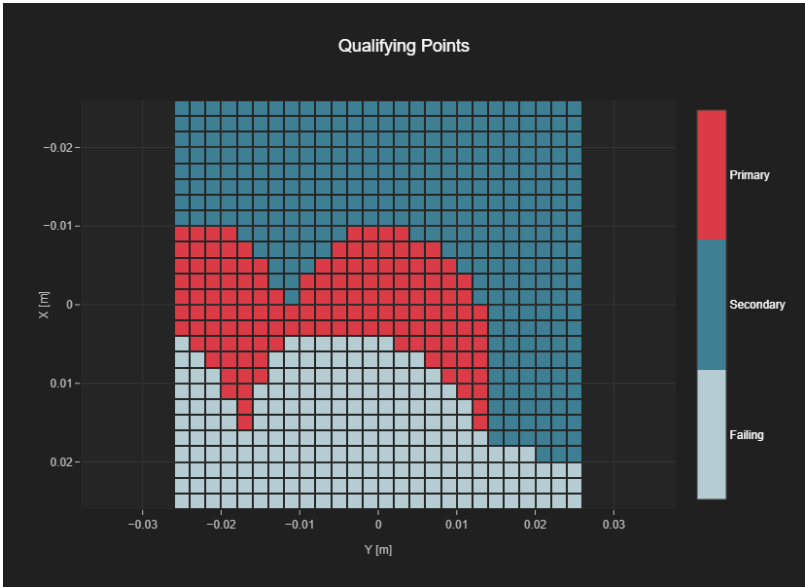
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 144                                  | 469                         | 23                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 10, 2024 at 15:36

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

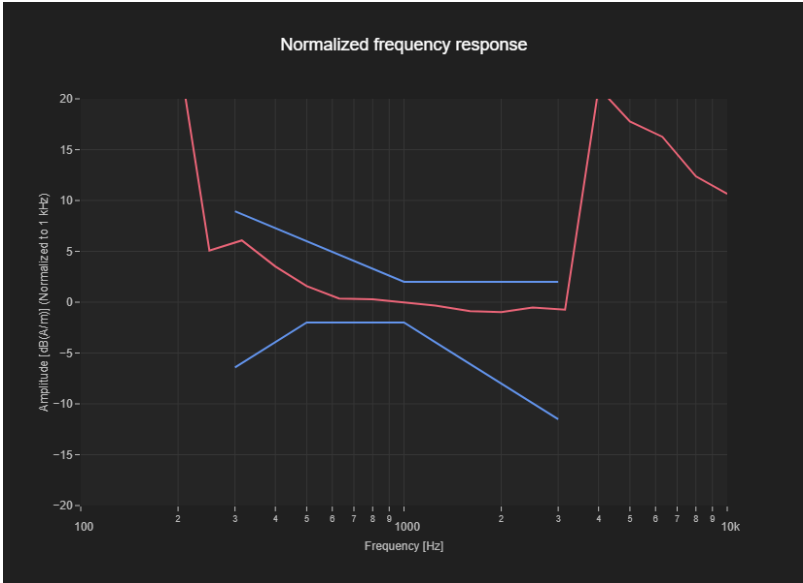
|           |                                                   |         |                 |
|-----------|---------------------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name                        | Channel | Frequency [MHz] |
| WLAN 5GHz | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | 40      | 5200.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 2.0                     |



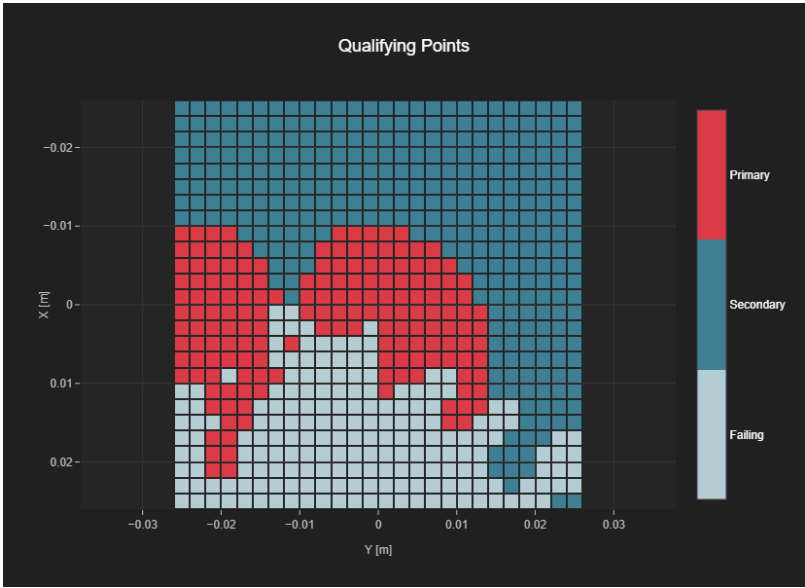
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 167                                  | 488                         | 24                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 12, 2024 at 16:33

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

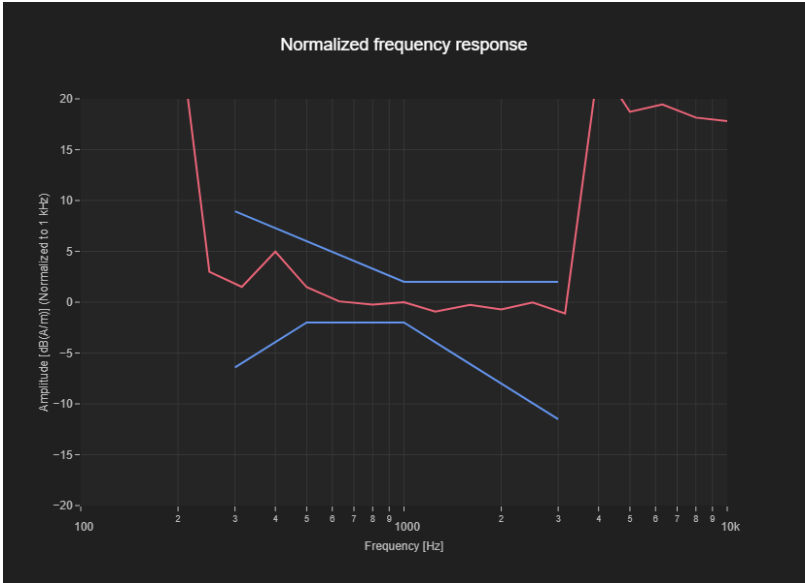
|           |                               |         |                 |
|-----------|-------------------------------|---------|-----------------|
| Band Name | Communication Systems Name    | Channel | Frequency [MHz] |
| GSM 850   | EDGE-FDD (TDMA, 8PSK, TN 0-1) | 190     | 836.6           |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 1.76                    |



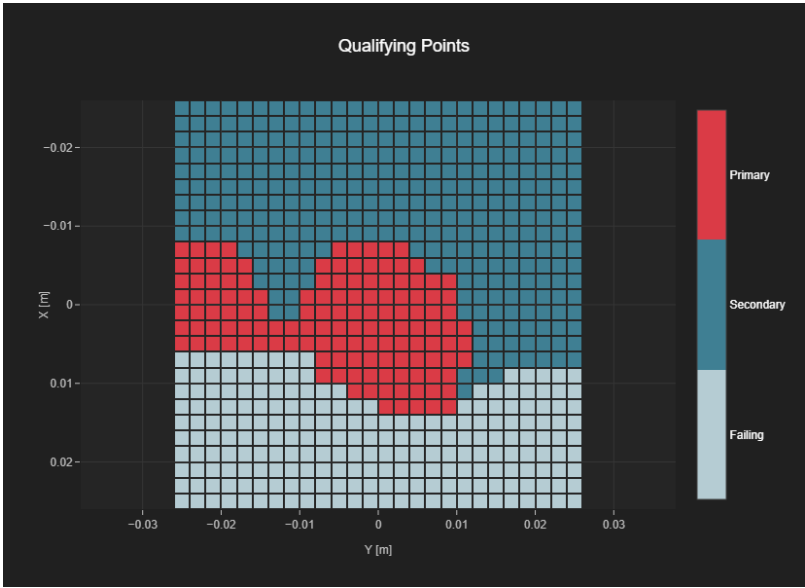
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 136                                  | 458                         | 20                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 12, 2024 at 14:18

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

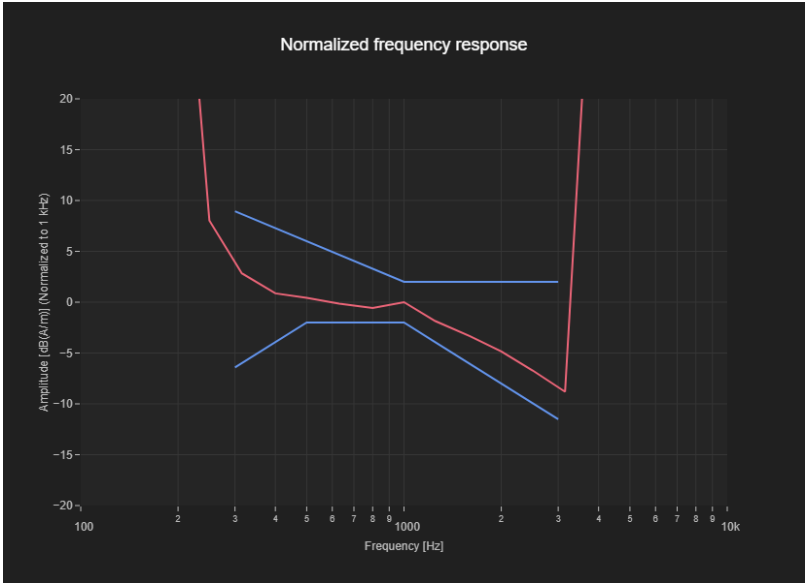
|           |                             |         |                 |
|-----------|-----------------------------|---------|-----------------|
| Band Name | Communication Systems Name  | Channel | Frequency [MHz] |
| Band 5    | UMTS-FDD (HSUPA, Subtest 2) | 4183    | 836.6           |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 1.43                    |



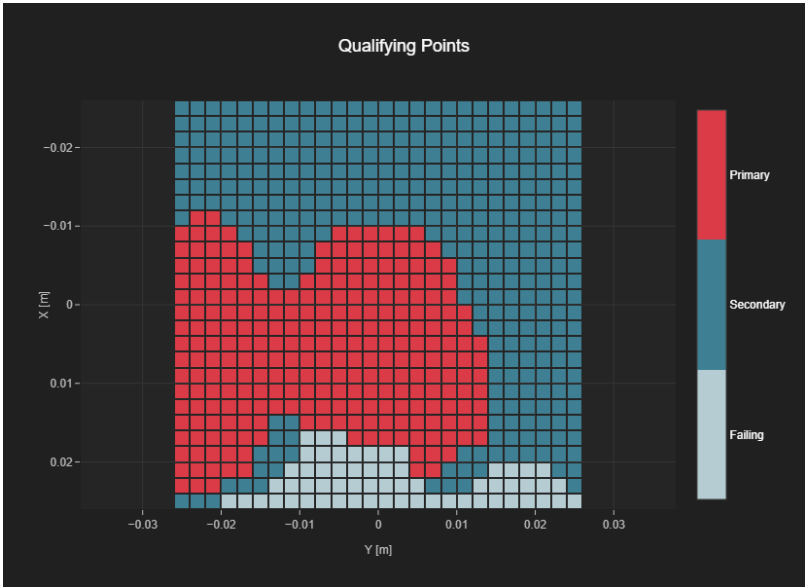
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

|                                      |                             |                                  |                                |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
| 262                                  | 615                         | 26                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 10:53

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

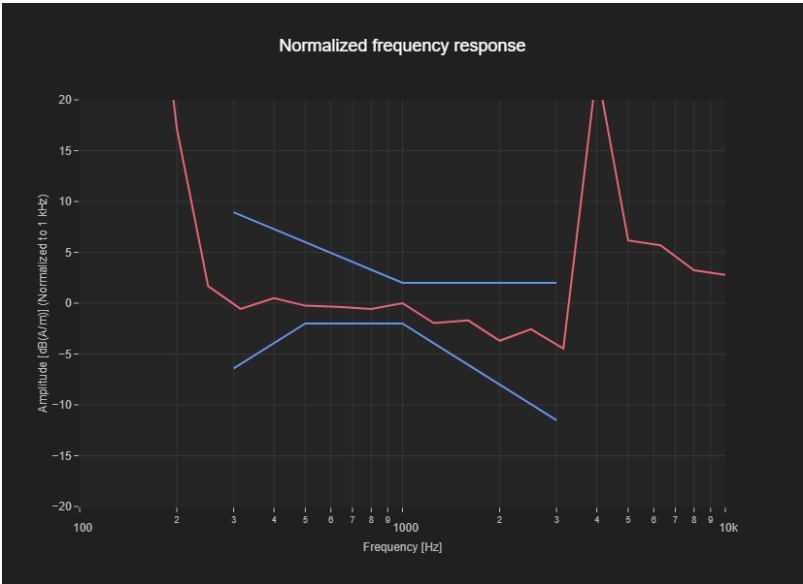
|           |                                         |         |                 |
|-----------|-----------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name              | Channel | Frequency [MHz] |
| Band 66   | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | 132322  | 1745.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 1.43                    |



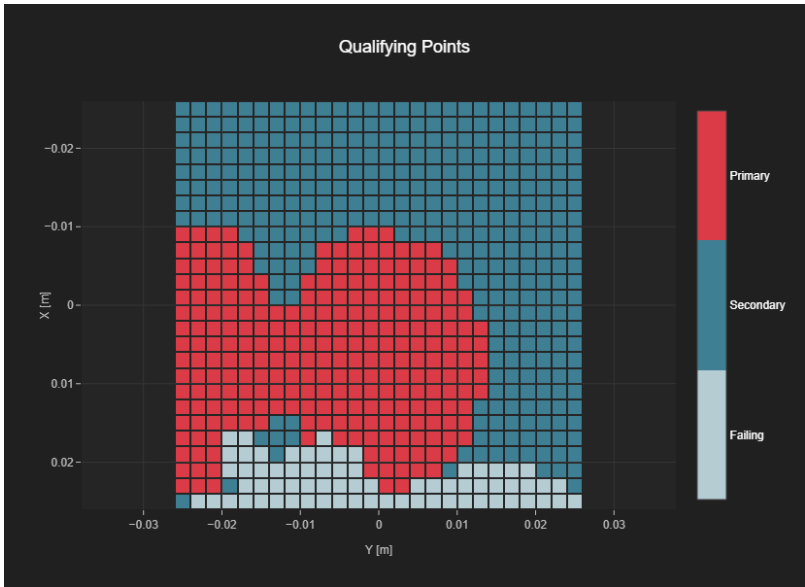
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

|                                      |                             |                                  |                                |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
| 257                                  | 607                         | 26                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 14:01

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

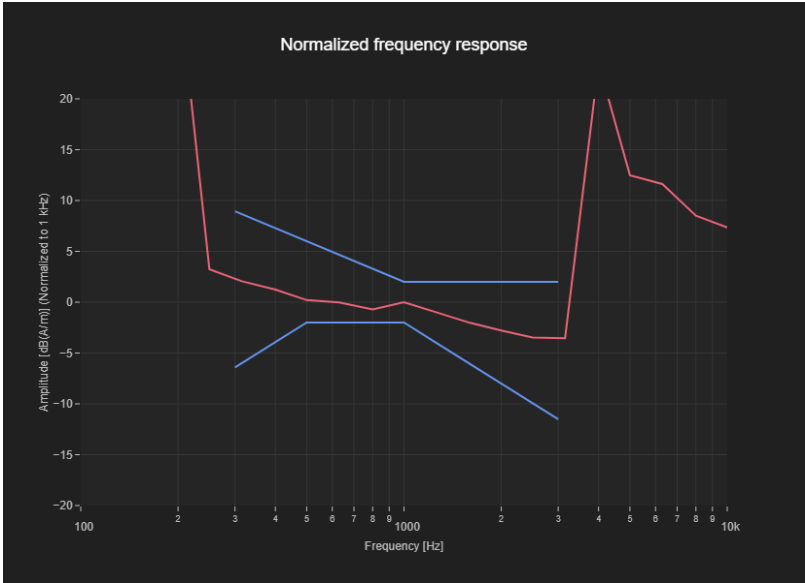
|           |                                       |         |                 |
|-----------|---------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name            | Channel | Frequency [MHz] |
| Band 48   | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | 55773   | 3603.3          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 1.28                    |



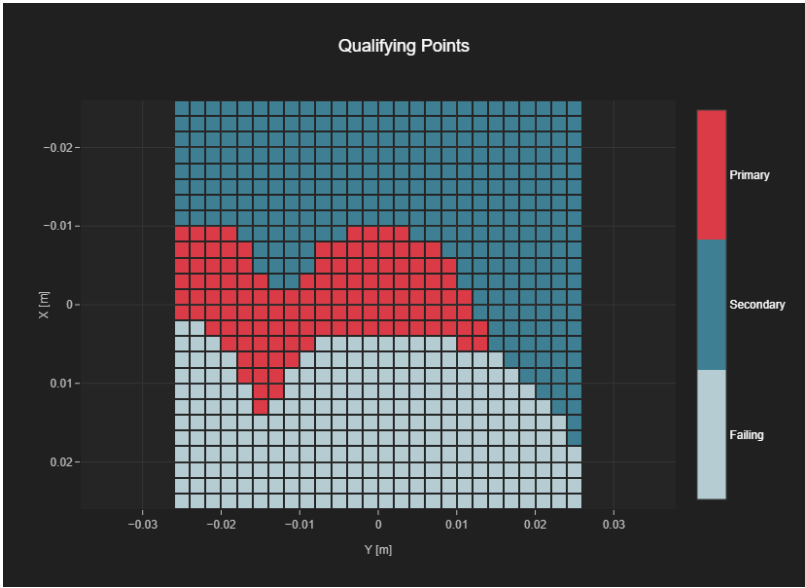
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 125                                  | 428                         | 22                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 24, 2024 at 18:01

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

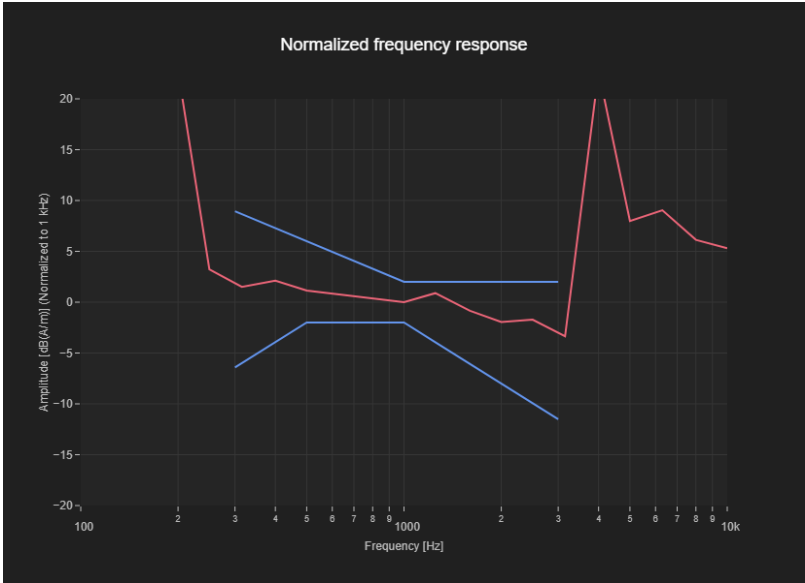
|           |                                                |         |                 |
|-----------|------------------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name                     | Channel | Frequency [MHz] |
| Band n25  | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 376500  | 1882.5          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 1.11                    | 2.0                     |



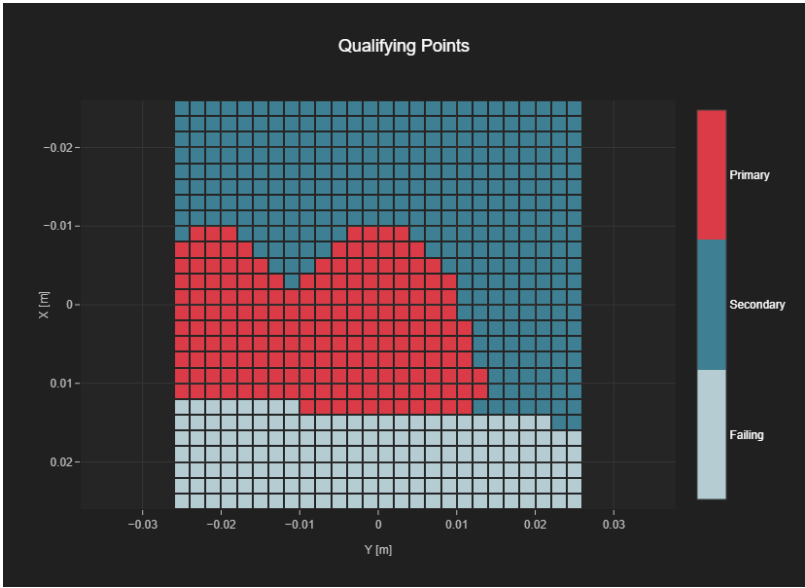
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 193                                  | 514                         | 21                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 24, 2024 at 13:45

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

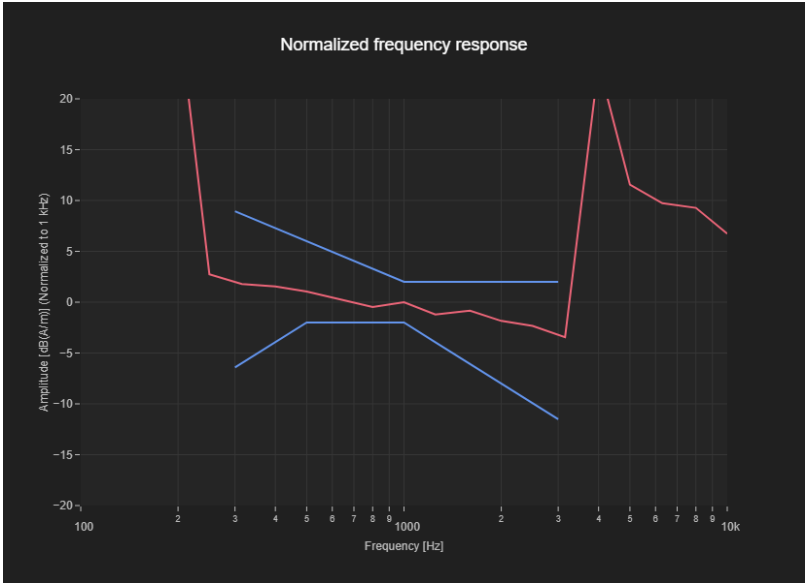
|           |                                                 |         |                 |
|-----------|-------------------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name                      | Channel | Frequency [MHz] |
| Band n77  | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 650000  | 3750.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 1.52                    |



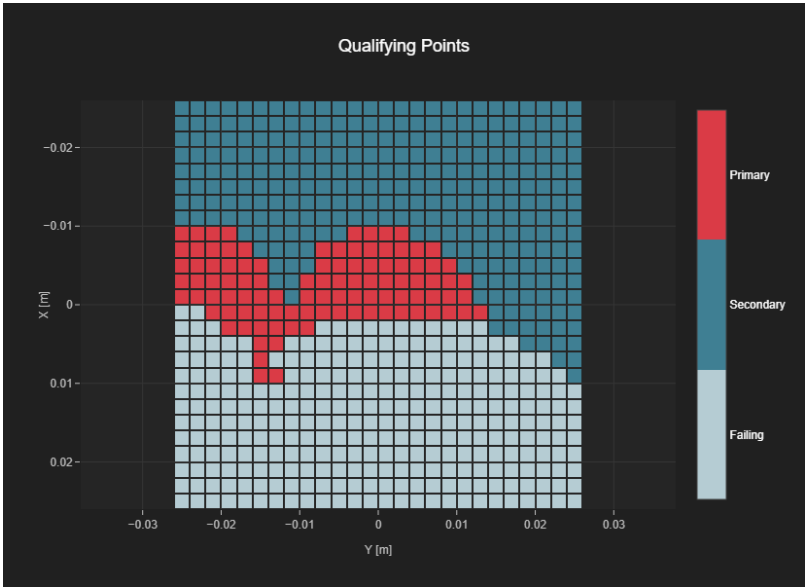
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 100                                  | 386                         | 18                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 17:15

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

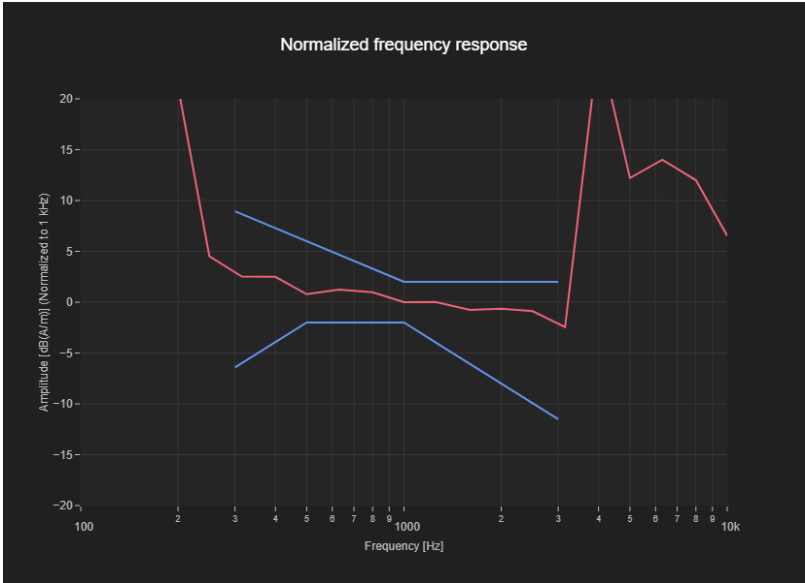
|             |                                          |         |                 |
|-------------|------------------------------------------|---------|-----------------|
| Band Name   | Communication Systems Name               | Channel | Frequency [MHz] |
| WLAN 2.4GHz | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | 6       | 2437.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 1.99                    | 2.0                     |



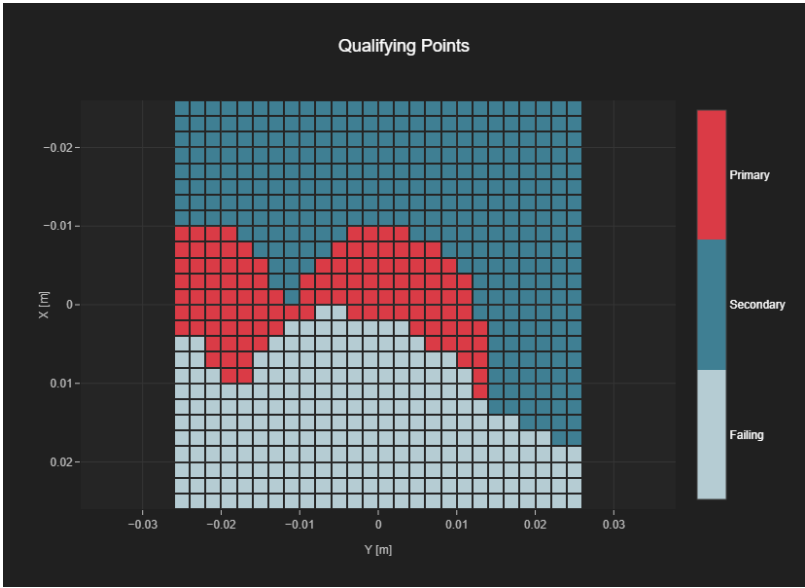
# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 116                                  | 433                         | 22                               | 26                             |



# T-Coil Signal Test Report

Measurement performed on September 12, 2024 at 10:40

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Hardware Setup

|               |                        |             |                      |
|---------------|------------------------|-------------|----------------------|
| Probe Name    | Probe Calibration Date | DAE Name    | DAE Calibration Date |
| AM1DV3 - 3137 | July 11, 2024          | DAE4 Sn1468 | August 15, 2024      |

## Communication Systems

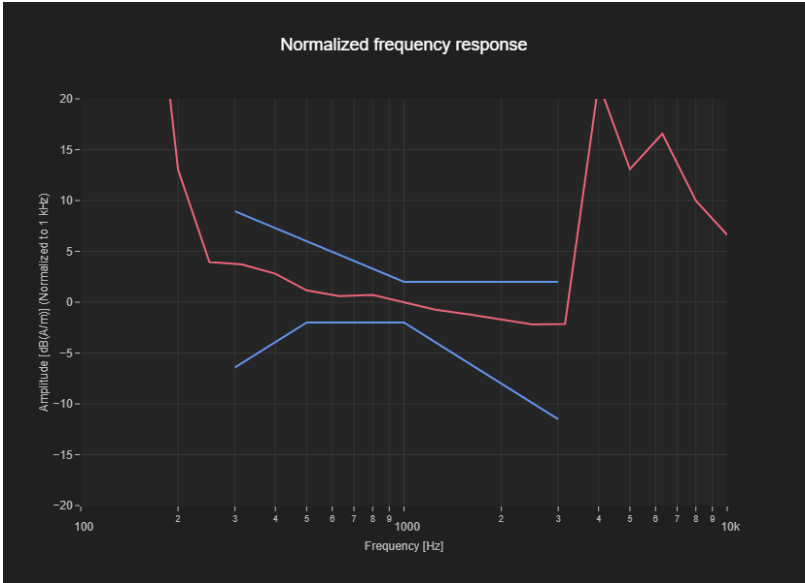
|           |                                                   |         |                 |
|-----------|---------------------------------------------------|---------|-----------------|
| Band Name | Communication Systems Name                        | Channel | Frequency [MHz] |
| WLAN 5GHz | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | 157     | 5785.0          |

## Grid Settings

|               |               |             |             |               |
|---------------|---------------|-------------|-------------|---------------|
| Extent X [mm] | Extent Y [mm] | Step X [mm] | Step Y [mm] | Distance [mm] |
| 52.0          | 52.0          | 4.0         | 4.0         | 10.0          |

## Results

|                           |                          |                         |                         |
|---------------------------|--------------------------|-------------------------|-------------------------|
| Audio File                | Measurement Duration [s] | Margin Upper Bound [dB] | Margin Lower Bound [dB] |
| 48k_voice_300-3000_2s.wav | 2.0                      | 2.0                     | 2.0                     |



# T-Coil Coupling Mode Test Report

## Device Under Test

|                     |          |
|---------------------|----------|
| Manufacturer        | Model    |
| Samsung Electronics | SM-A166U |

## Results

| Primary Group Contiguous Point Count | Secondary Group Point Count | Secondary Group Max Longitudinal | Secondary Group Max Transverse |
|--------------------------------------|-----------------------------|----------------------------------|--------------------------------|
| 144                                  | 457                         | 23                               | 26                             |

