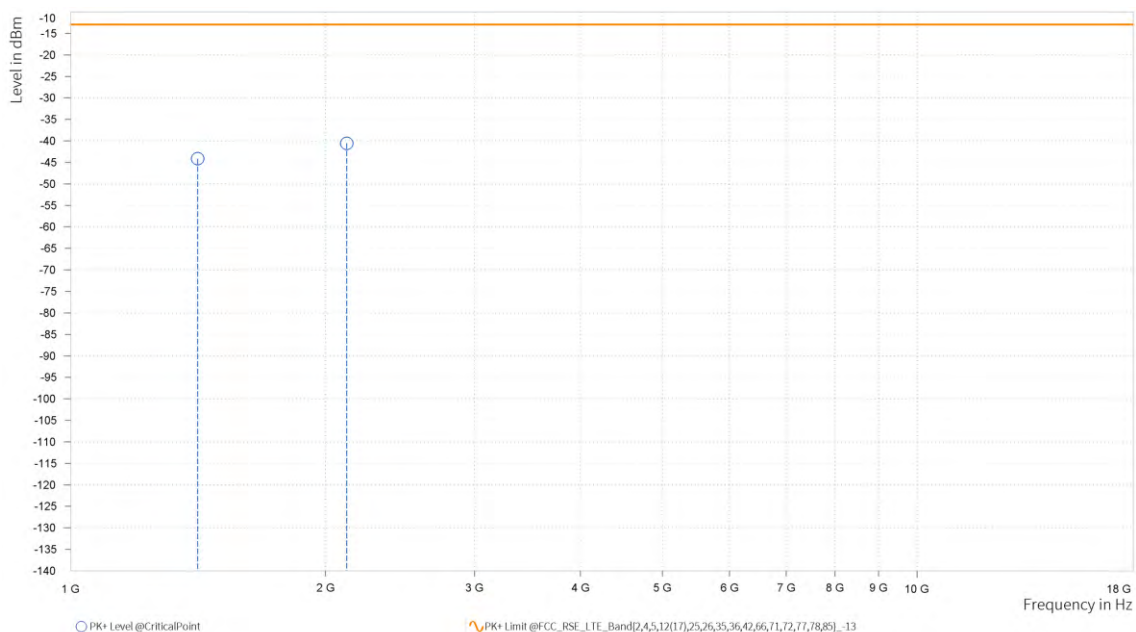


**CHANNEL BANDWIDTH: 3MHz / QPSK**

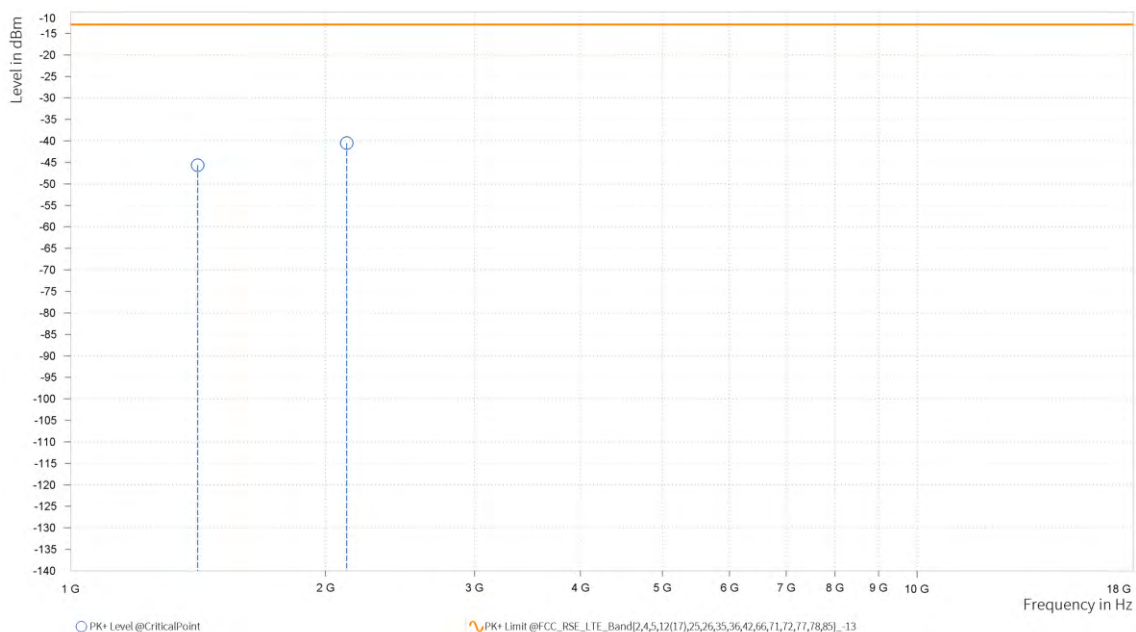
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,412.300       | -44.17          | -13.00          | 31.17           | 23.85           | H            | 56.7          | 1.00               |
| 2  | 2,118.450       | -40.57          | -13.00          | 27.57           | 28.92           | H            | 358.4         | 1.00               |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

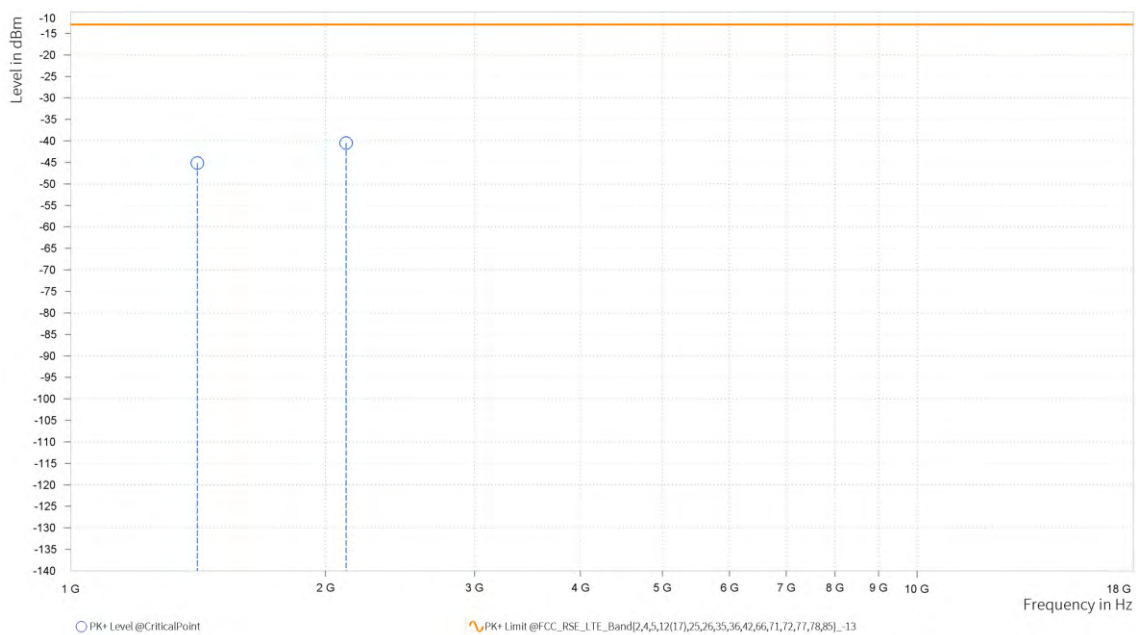
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,412.300       | -45.63          | -13.00          | 32.63           | 23.52           | V            | 286.2         | 1.00               |
| 2  | 2,118.450       | -40.52          | -13.00          | 27.52           | 29.53           | V            | 75            | 2.00               |



**CHANNEL BANDWIDTH: 5MHz / QPSK**

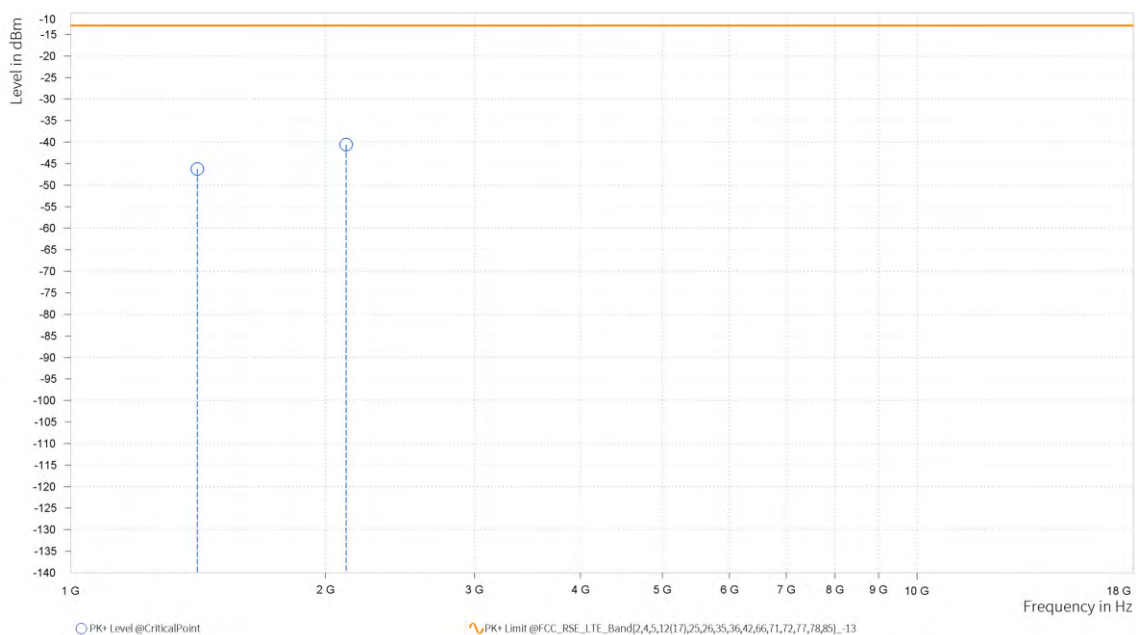
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,410.500       | -45.16          | -13.00          | 32.16           | 23.76           | H            | 356.5         | 1.00               |
| 2  | 2,115.750       | -40.47          | -13.00          | 27.47           | 28.97           | H            | 359           | 2.00               |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

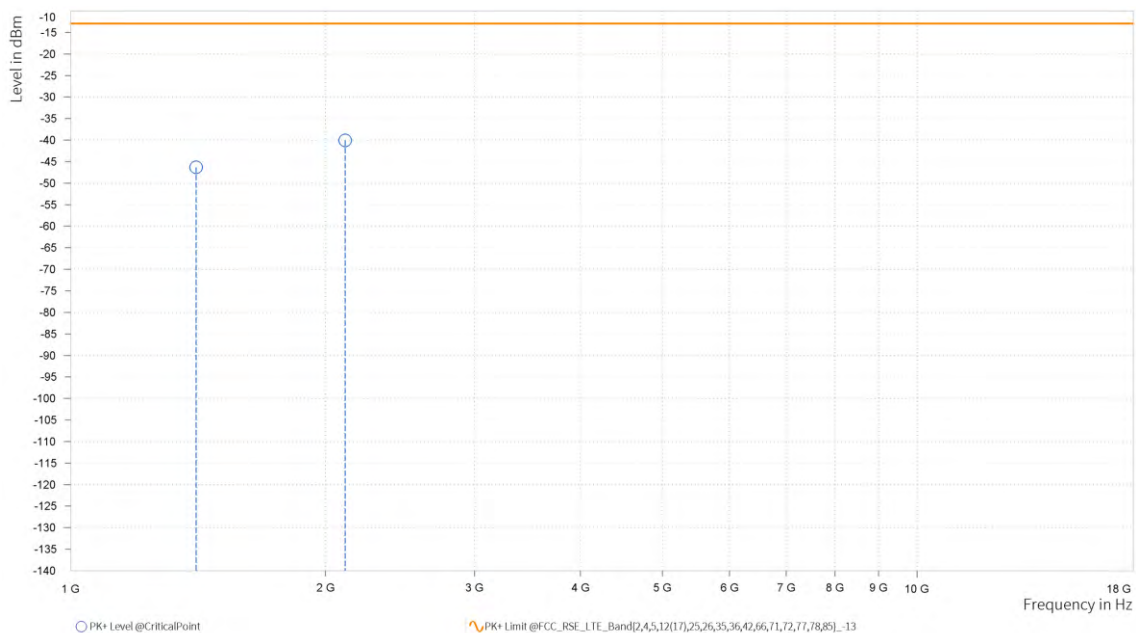
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,410.500       | -46.21          | -13.00          | 33.21           | 23.58           | V            | 359           | 2.00               |
| 2  | 2,115.750       | -40.59          | -13.00          | 27.59           | 29.61           | V            | 2             | 2.00               |



**CHANNEL BANDWIDTH: 10MHz / QPSK**

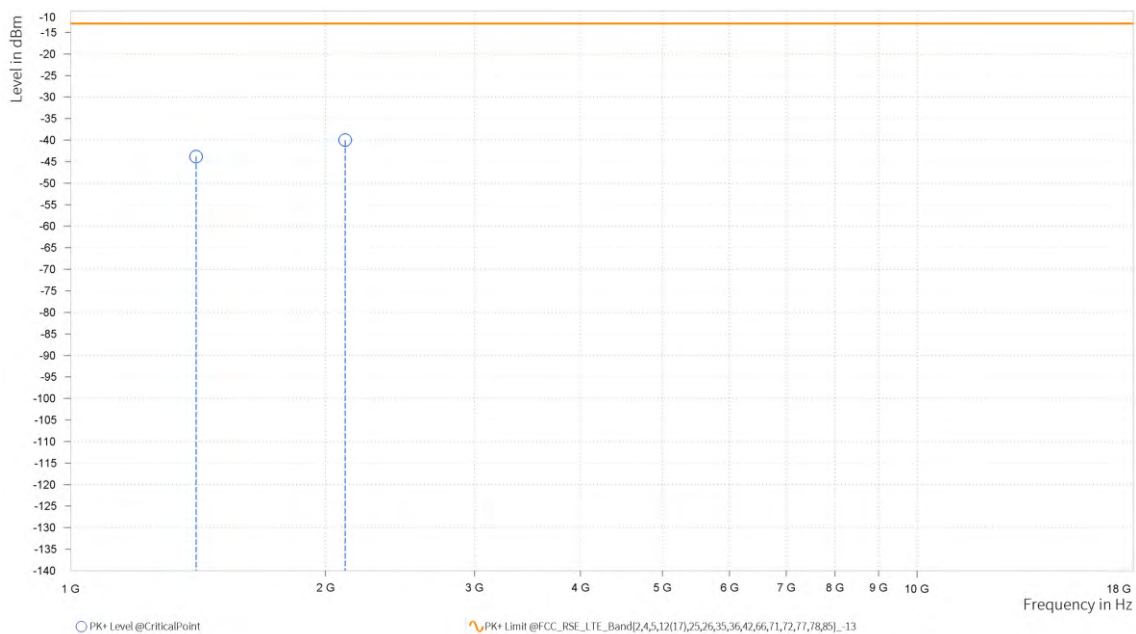
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,406.000       | -46.28          | -13.00          | 33.28           | 23.56           | H            | 359           | 2.00               |
| 2  | 2,109.000       | -40.07          | -13.00          | 27.07           | 29.05           | H            | 359.1         | 1.00               |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23095 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,406.000       | -43.81          | -13.00          | 30.81           | 23.69           | V            | 359           | 2.00               |
| 2  | 2,109.000       | -40.00          | -13.00          | 27.00           | 29.76           | V            | 310           | 1.00               |



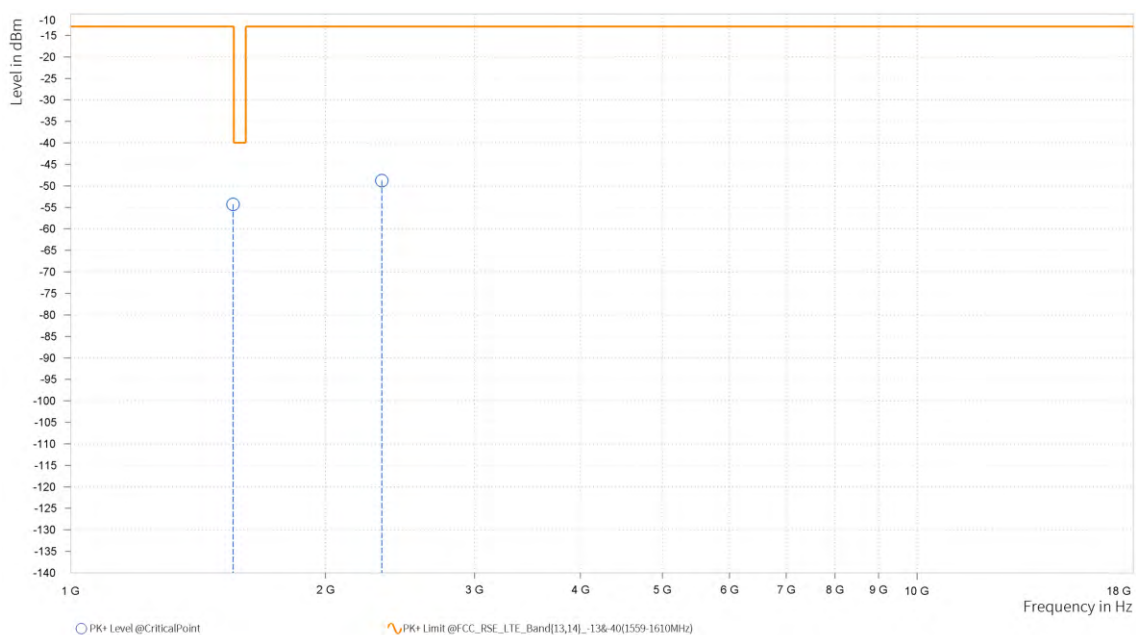
**LTE B13**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

**CH23205**

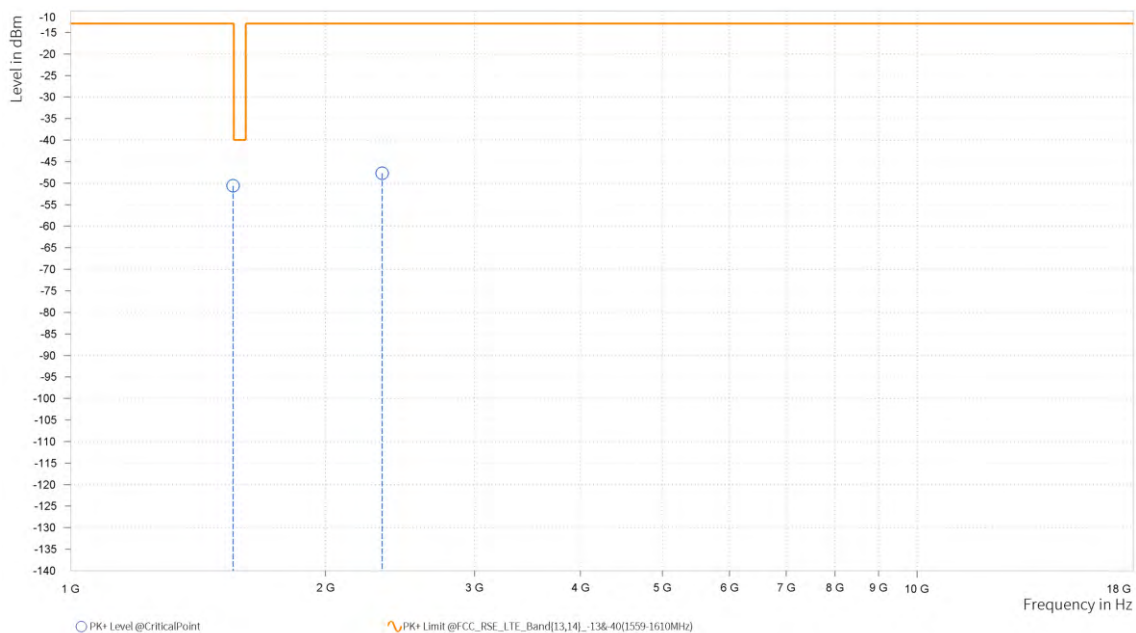
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23205 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,554.500       | -54.27          | -13.00          | 41.27           | 13.36           | H            | 357.8         | 1.00               |
| 3  | 2,331.500       | -48.77          | -13.00          | 35.77           | 20.14           | H            | 358.4         | 1.00               |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23205 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

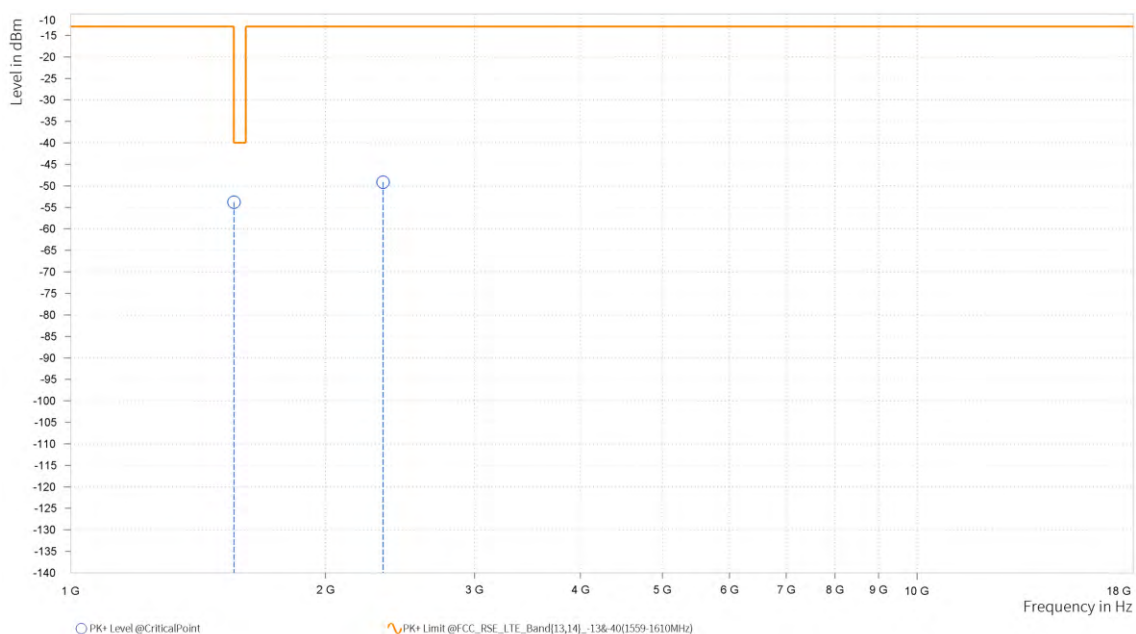
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,554.500       | -50.62          | -13.00          | 37.62           | 14.69           | V            | 357.7         | 1.00               |
| 3  | 2,331.750       | -47.67          | -13.00          | 34.67           | 20.75           | V            | 1.6           | 2.00               |



**CH23230**

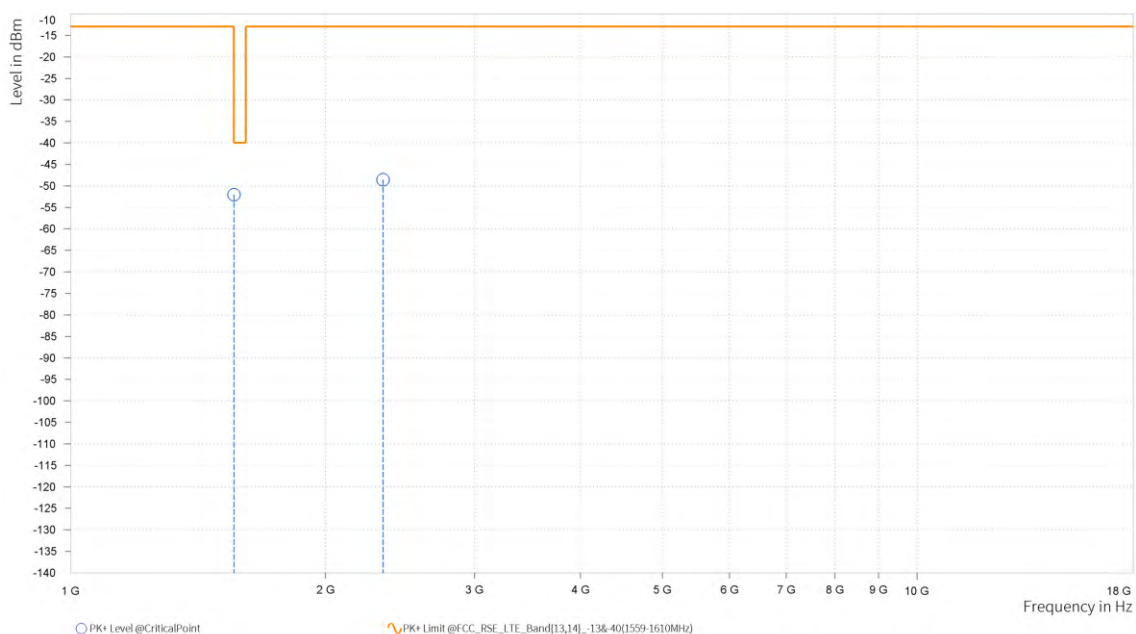
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,559.500       | -53.77          | -40.00          | 13.77           | 13.33           | H            | 359           | 1.00               |
| 3  | 2,339.000       | -49.14          | -13.00          | 36.14           | 20.38           | H            | 1             | 2.00               |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

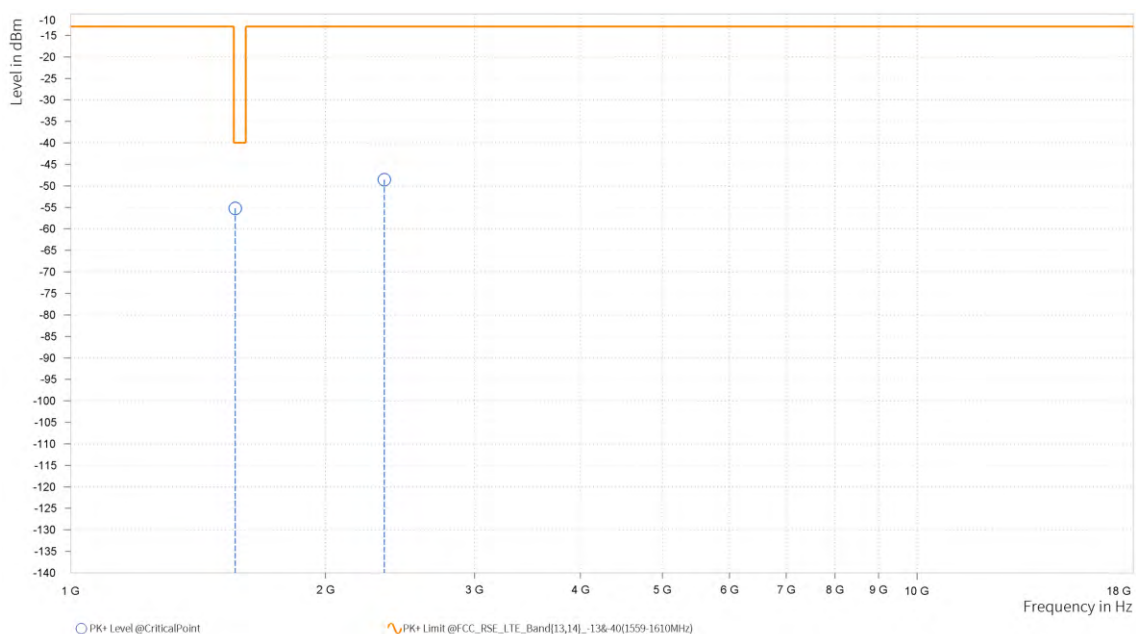
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,559.500       | -52.04          | -40.00          | 12.04           | 14.72           | V            | 358.2         | 1.00               |
| 3  | 2,339.000       | -48.54          | -13.00          | 35.54           | 20.79           | V            | 359           | 2.00               |



**CH23255**

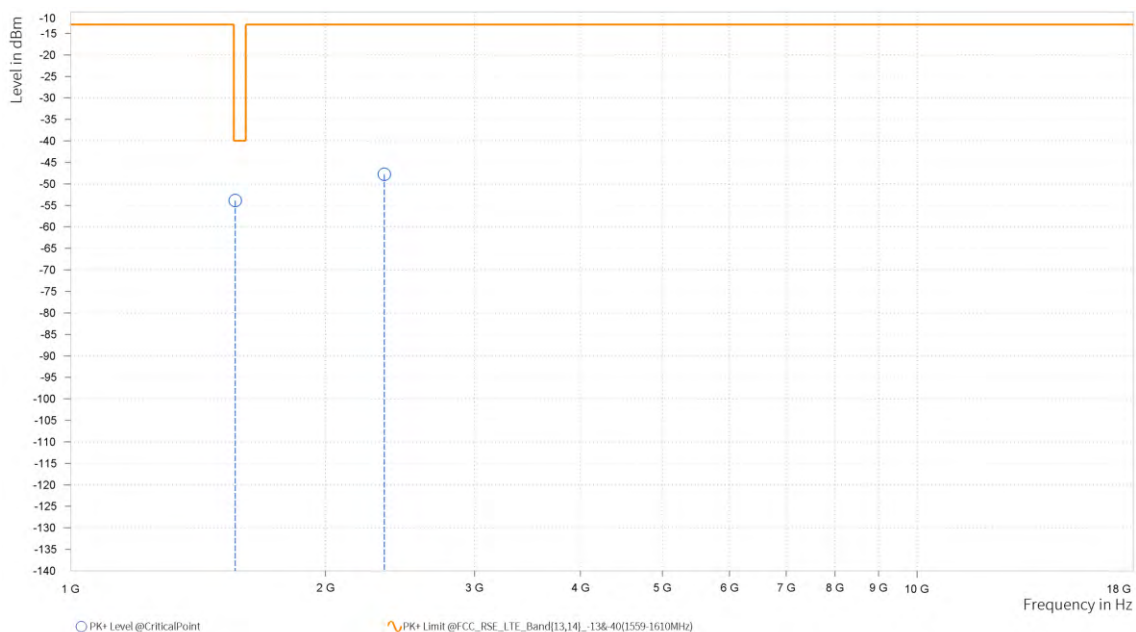
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23255 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,564.500       | -55.23          | -40.00          | 15.23           | 13.31           | H            | 64.2          | 2.00               |
| 3  | 2,346.750       | -48.56          | -13.00          | 35.56           | 20.68           | H            | 105.7         | 1.00               |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23255 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

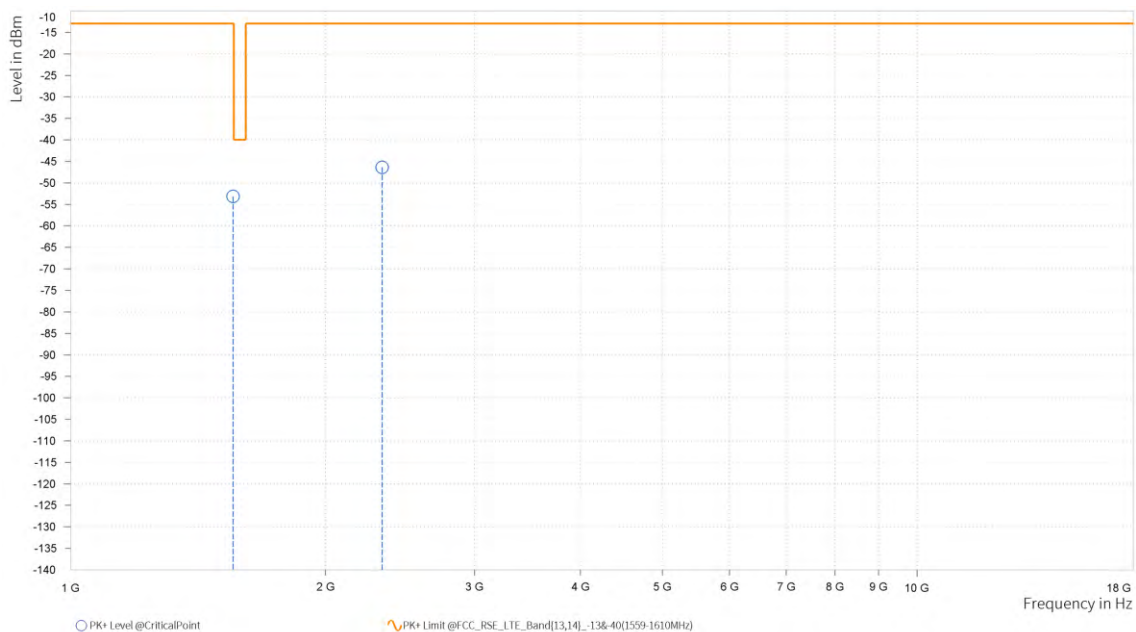
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,564.500       | -53.87          | -40.00          | 13.87           | 14.73           | V            | 357.8         | 1.00               |
| 3  | 2,346.500       | -47.80          | -13.00          | 34.80           | 20.88           | V            | 358.5         | 1.00               |



**CHANNEL BANDWIDTH: 10MHz /QPSK**

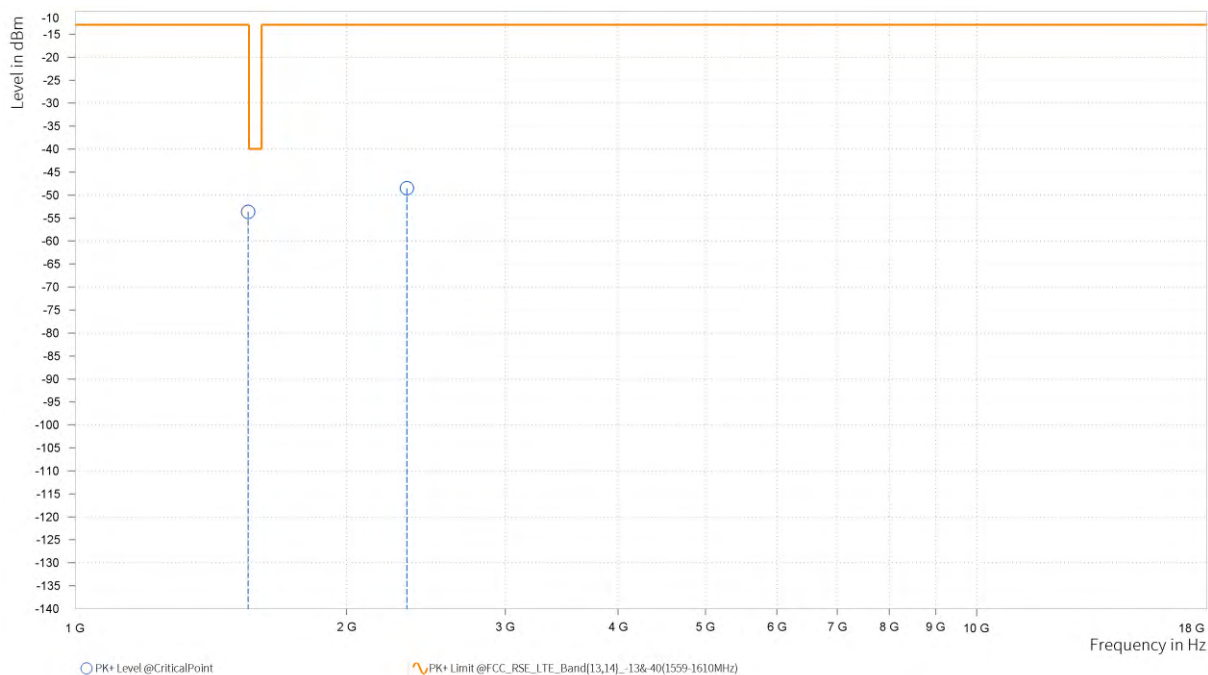
|                                                     |                  |                 |               |
|-----------------------------------------------------|------------------|-----------------|---------------|
| MODE                                                | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                           | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,555.000       | -53.17          | -13.00          | 40.17           | 13.36           | H            | 359           | 2.00               |
| 3  | 2,332.500       | -46.38          | -13.00          | 33.38           | 20.17           | H            | 359           | 2.00               |



|                                                   |                  |                 |               |
|---------------------------------------------------|------------------|-----------------|---------------|
| MODE                                              | TX channel 23230 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH  | INPUT POWER     | AC 120V/60HZ  |
| TESTED BY                                         | Hanwen Xu        |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                  |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,555.000       | -53.64          | -13.00          | 40.64           | 14.70           | V            | 1             | 1.00               |
| 3  | 2,332.500       | -48.50          | -13.00          | 35.50           | 20.76           | V            | 359           | 2.00               |

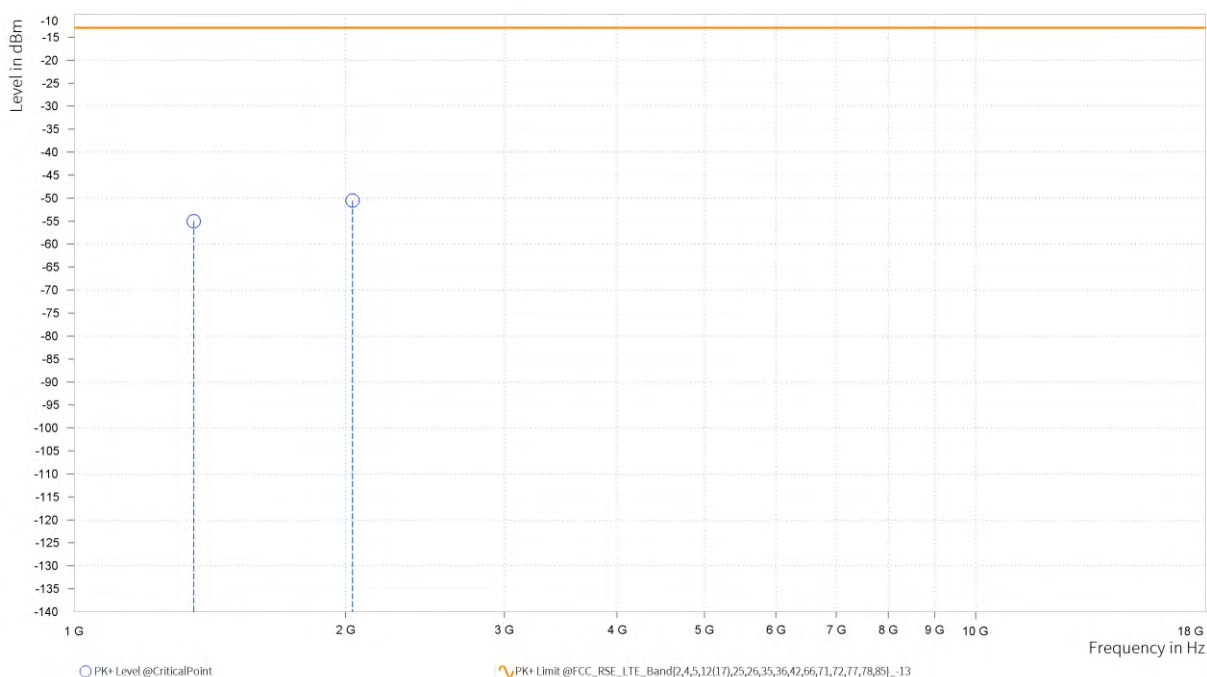


**LTE B71**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

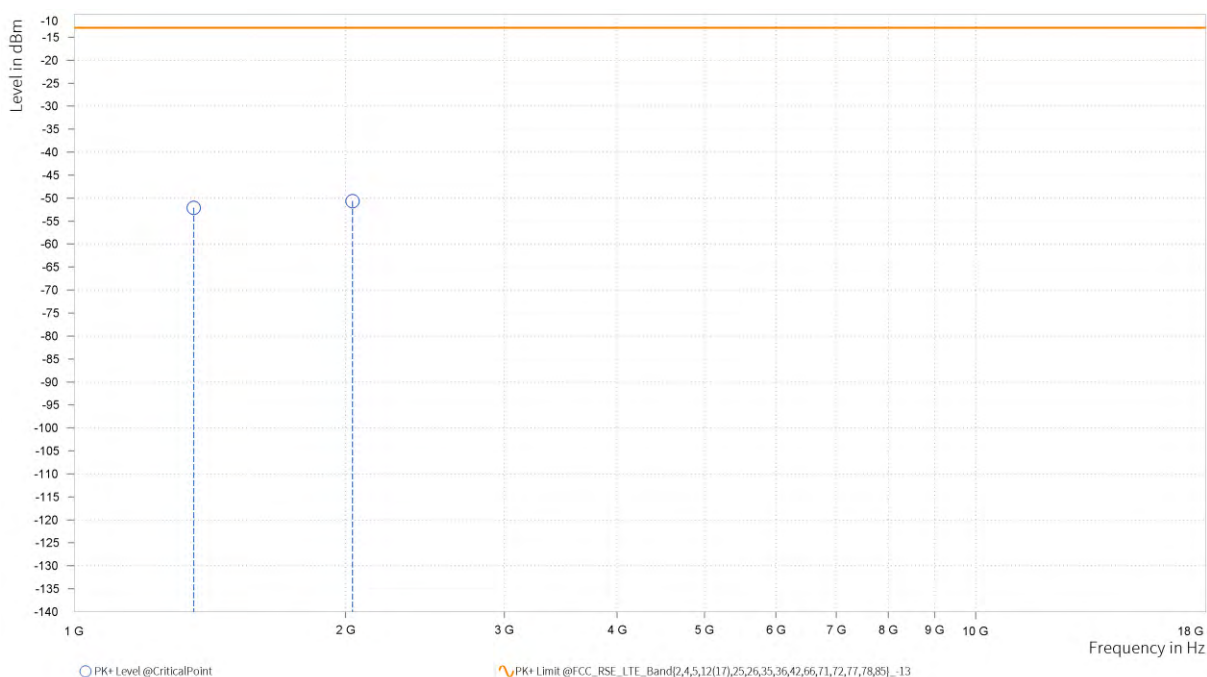
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 133297 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,356.500       | -55.00          | -13.00          | 42.00           | 13.09           | H            | 0.9           | 2.00               |
| 2  | 2,034.750       | -50.56          | -13.00          | 37.56           | 17.32           | H            | 0.9           | 2.00               |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 133297 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

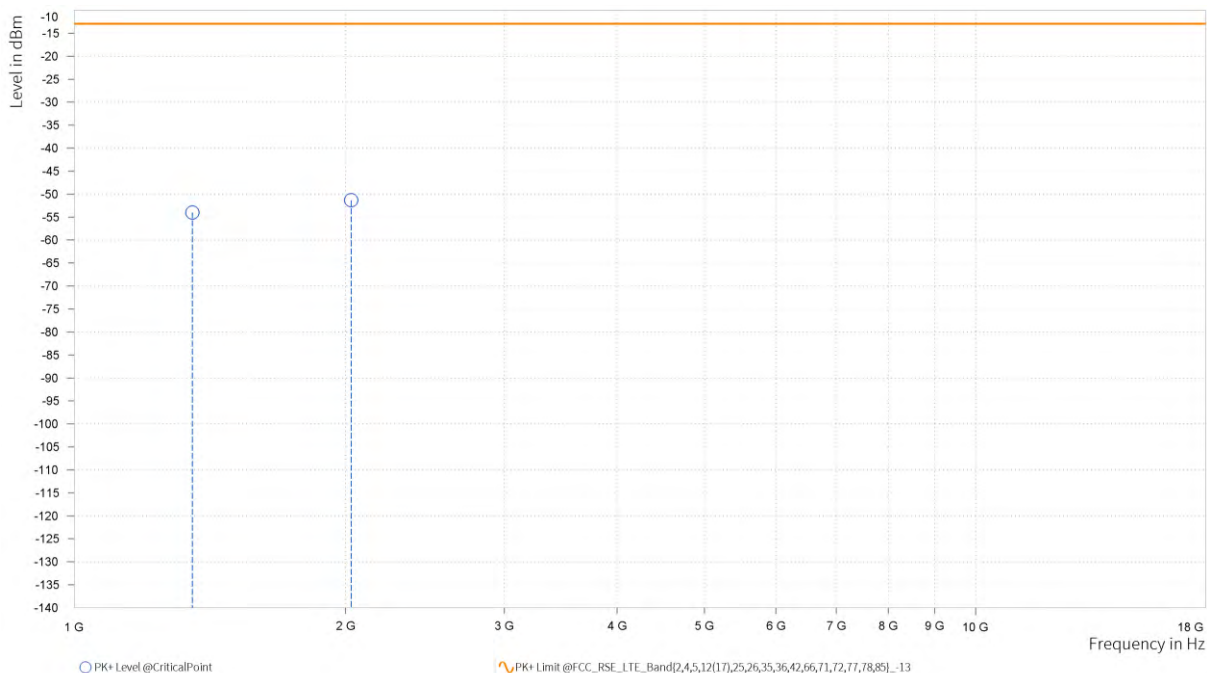
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,356.500       | -52.11          | -13.00          | 39.11           | 14.07           | V            | 359.6         | 1.00               |
| 2  | 2,034.750       | -50.65          | -13.00          | 37.65           | 17.87           | V            | 271.5         | 2.00               |



**CHANNEL BANDWIDTH: 10MHz / QPSK**

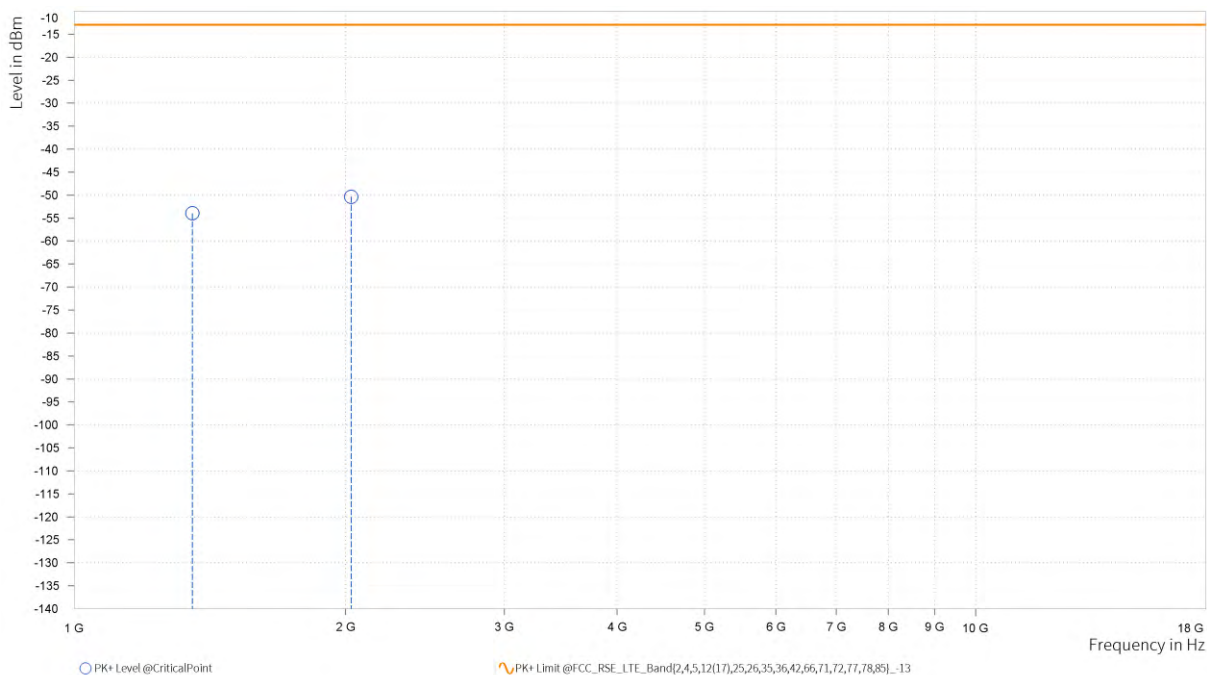
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 133297 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,352.000       | -54.00          | -13.00          | 41.00           | 13.13           | H            | 359.5         | 2.00               |
| 2  | 2,028.000       | -51.34          | -13.00          | 38.34           | 17.42           | H            | 359.5         | 1.00               |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 133297 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

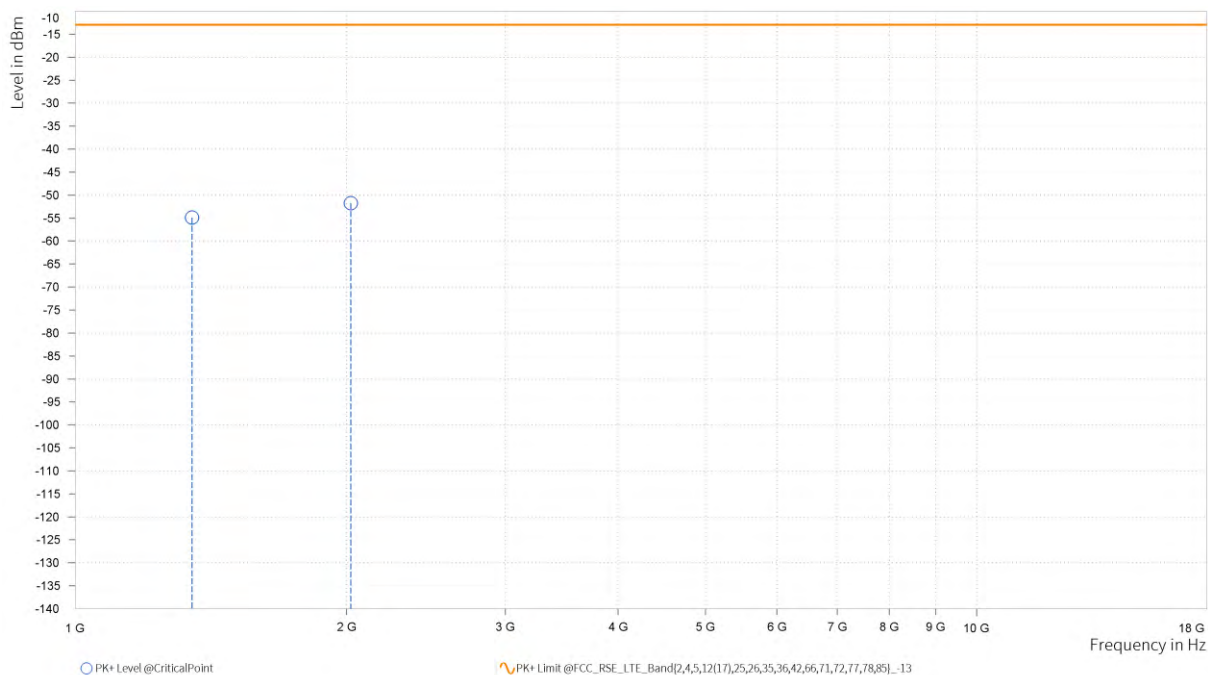
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,352.000       | -53.97          | -13.00          | 40.97           | 13.96           | V            | 0.9           | 2.00               |
| 2  | 2,028.000       | -50.38          | -13.00          | 37.38           | 17.99           | V            | 1             | 1.00               |



**CHANNEL BANDWIDTH: 15MHz / QPSK**

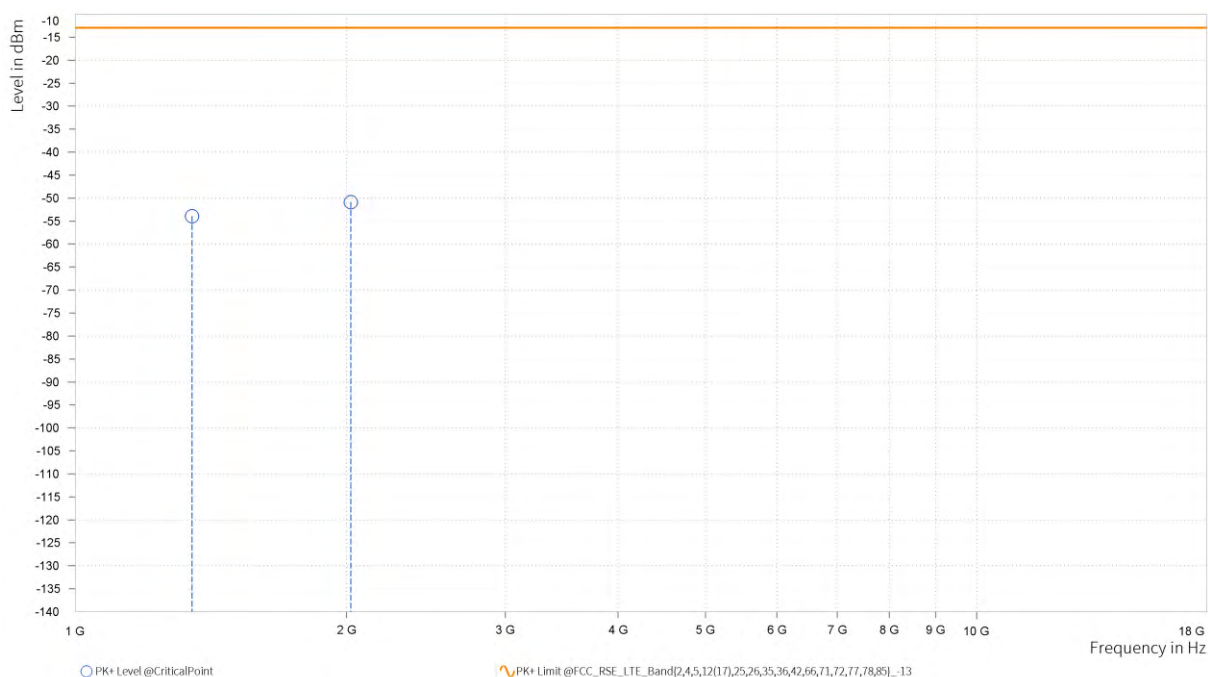
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 133297 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,347.500       | -54.90          | -13.00          | 41.90           | 13.17           | H            | 359.6         | 1.00               |
| 2  | 2,021.250       | -51.73          | -13.00          | 38.73           | 17.48           | H            | 272.7         | 2.00               |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 133297 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,347.500       | -53.94          | -13.00          | 40.94           | 13.87           | V            | 1             | 2.00               |
| 2  | 2,021.250       | -50.87          | -13.00          | 37.87           | 17.98           | V            | 1             | 2.00               |

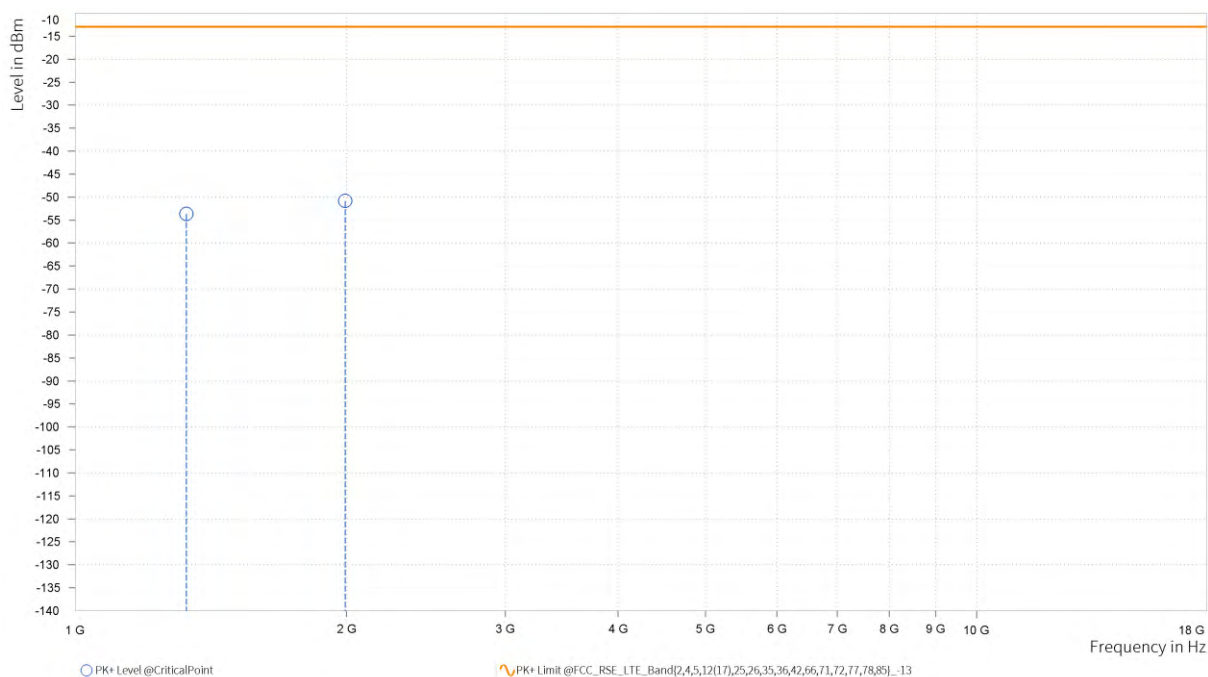


**CHANNEL BANDWIDTH: 20MHz / QPSK**

**CH133222**

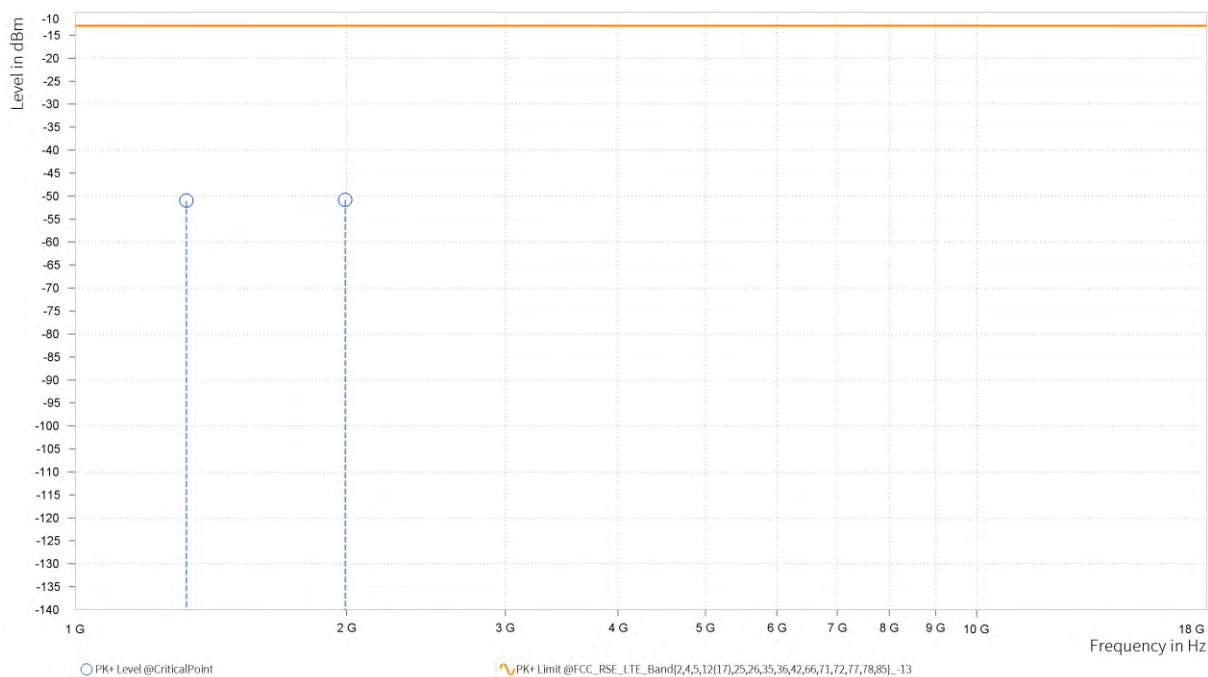
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 133222 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,328.000       | -53.65          | -13.00          | 40.65           | 13.03           | H            | 0.9           | 2.00               |
| 2  | 1,992.000       | -50.83          | -13.00          | 37.83           | 17.77           | H            | 87.8          | 1.00               |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 133222 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

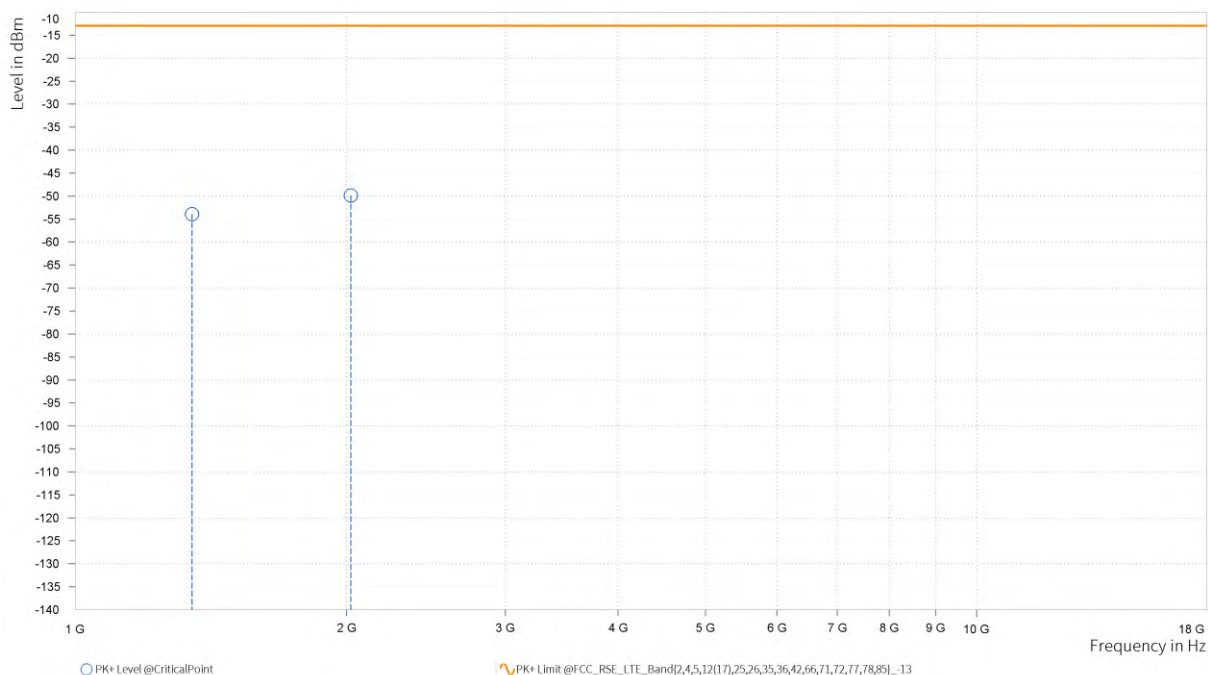
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,328.000       | -50.99          | -13.00          | 37.99           | 14.09           | V            | 272.7         | 2.00               |
| 2  | 1,992.000       | -50.84          | -13.00          | 37.84           | 17.75           | V            | 87.7          | 1.00               |



**CH133322**

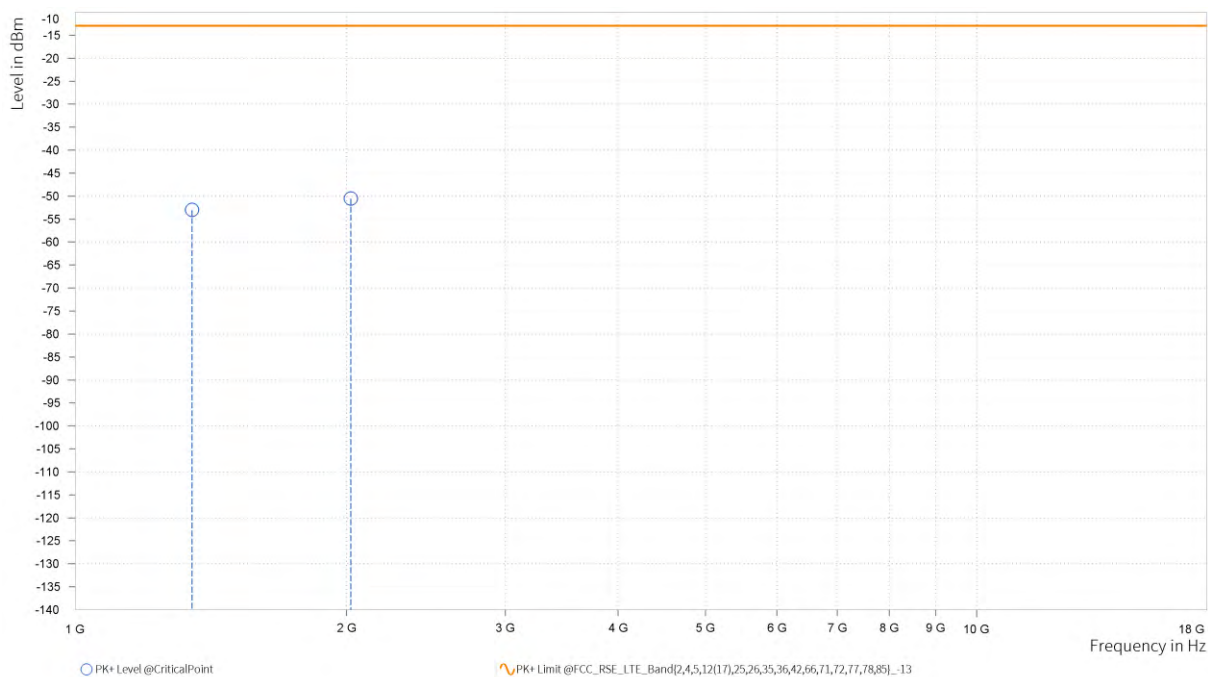
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 133322 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,348.000       | -53.93          | -13.00          | 40.93           | 13.17           | H            | 0.9           | 2.00               |
| 2  | 2,022.000       | -49.87          | -13.00          | 36.87           | 17.48           | H            | 359.6         | 1.00               |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 133322 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

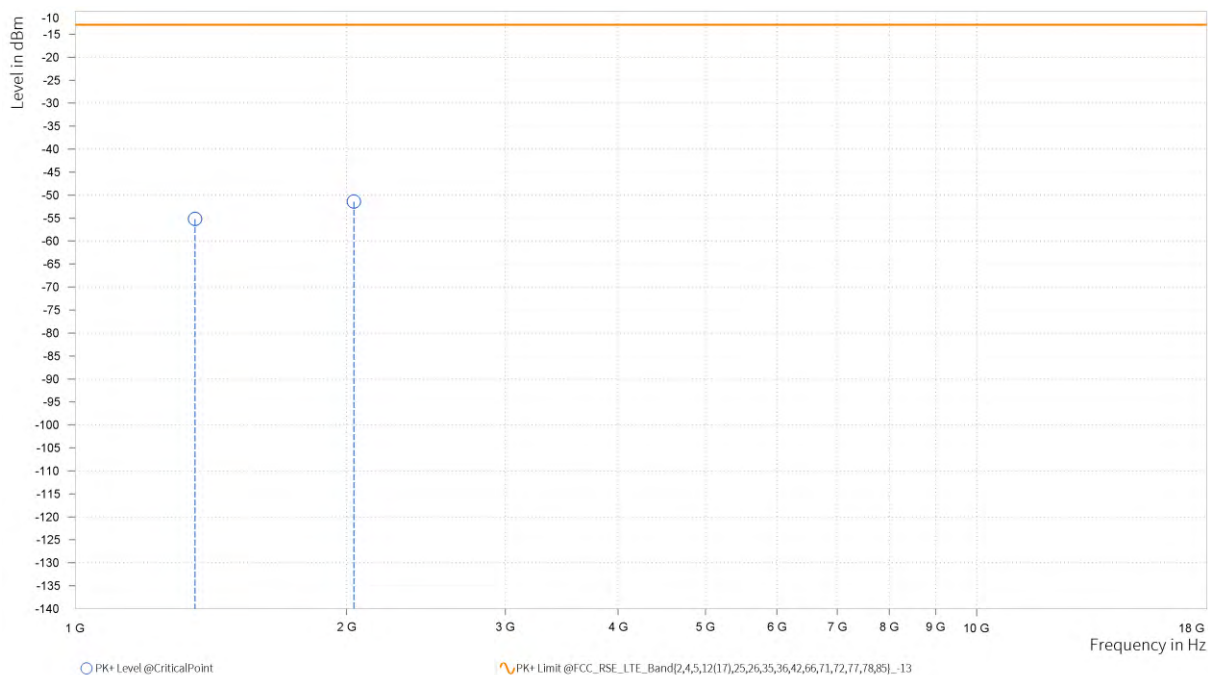
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,348.000       | -53.01          | -13.00          | 40.01           | 13.88           | V            | 359.5         | 2.00               |
| 2  | 2,022.000       | -50.55          | -13.00          | 37.55           | 18.00           | V            | 271.5         | 2.00               |



CH133372

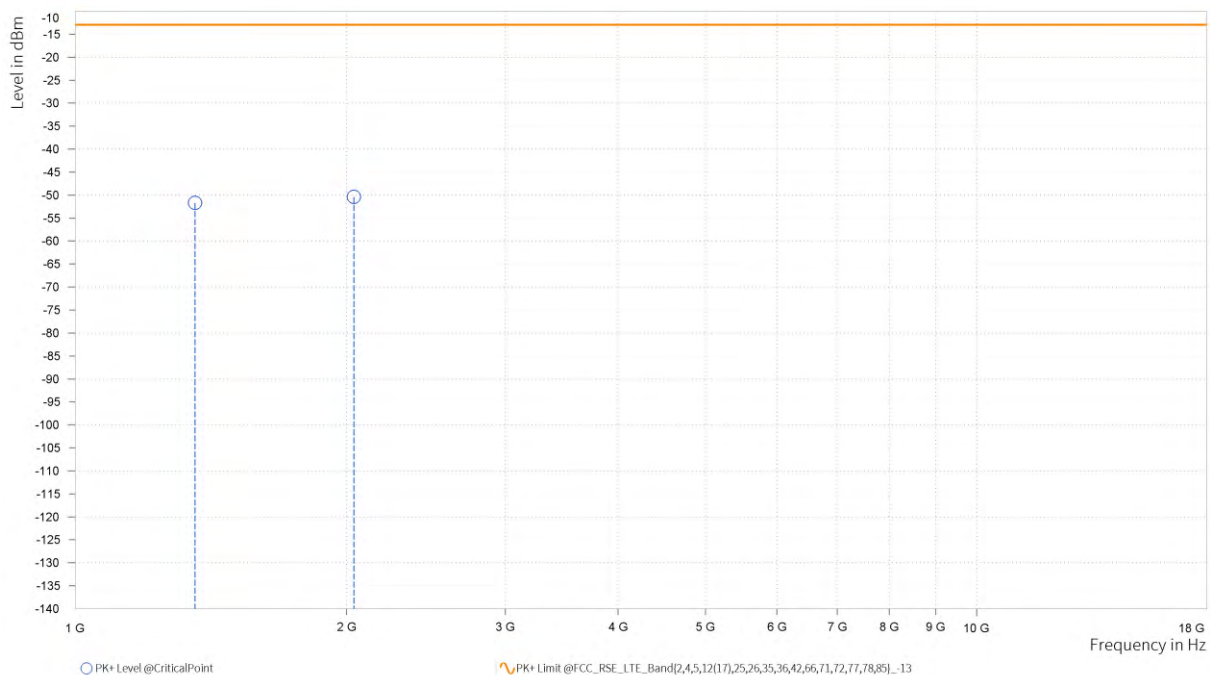
|                                                     |                   |                 |               |
|-----------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                                | TX channel 133372 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                            | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                           | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,358.000       | -55.18          | -13.00          | 42.18           | 13.08           | H            | 359.5         | 2.00               |
| 2  | 2,037.000       | -51.40          | -13.00          | 38.40           | 17.27           | H            | 1             | 2.00               |



|                                                   |                   |                 |               |
|---------------------------------------------------|-------------------|-----------------|---------------|
| MODE                                              | TX channel 133372 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS                          | 23deg. C, 70%RH   | INPUT POWER     | AC 120V/60Hz  |
| TESTED BY                                         | Hanwen Xu         |                 |               |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                   |                 |               |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,358.000       | -51.71          | -13.00          | 38.71           | 14.10           | V            | 271.5         | 2.00               |
| 2  | 2,037.000       | -50.40          | -13.00          | 37.40           | 17.82           | V            | 271.5         | 2.00               |

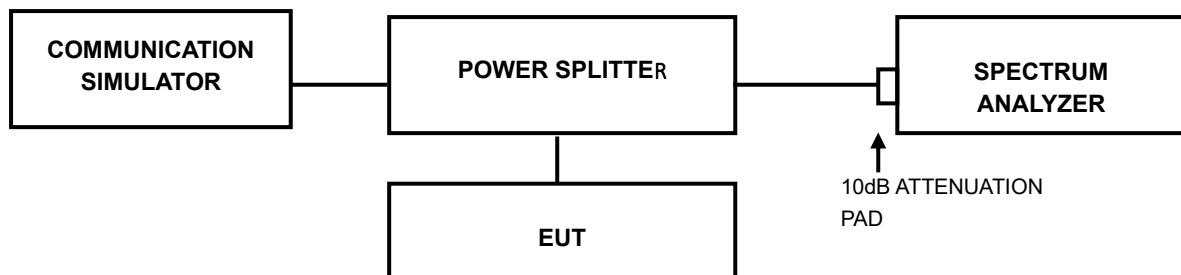


### 3.7 PEAK TO AVERAGE RATIO

#### 3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

#### 3.7.2 TEST SETUP



#### 3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



**Test Report No.: PSU-QSU2312140113RF03**

### 3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: PSU-QSU2312140113RF03

## 4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

**Suzhou EMC/RF Lab:**

Tel: +86 (0557) 368 1008



Test Report No.: PSU-QSU2312140113RF03

## **5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.



Test Report No.: PSU-QSU2312140113RF03

## 6 APPENDIX

### WCDMA BAND4

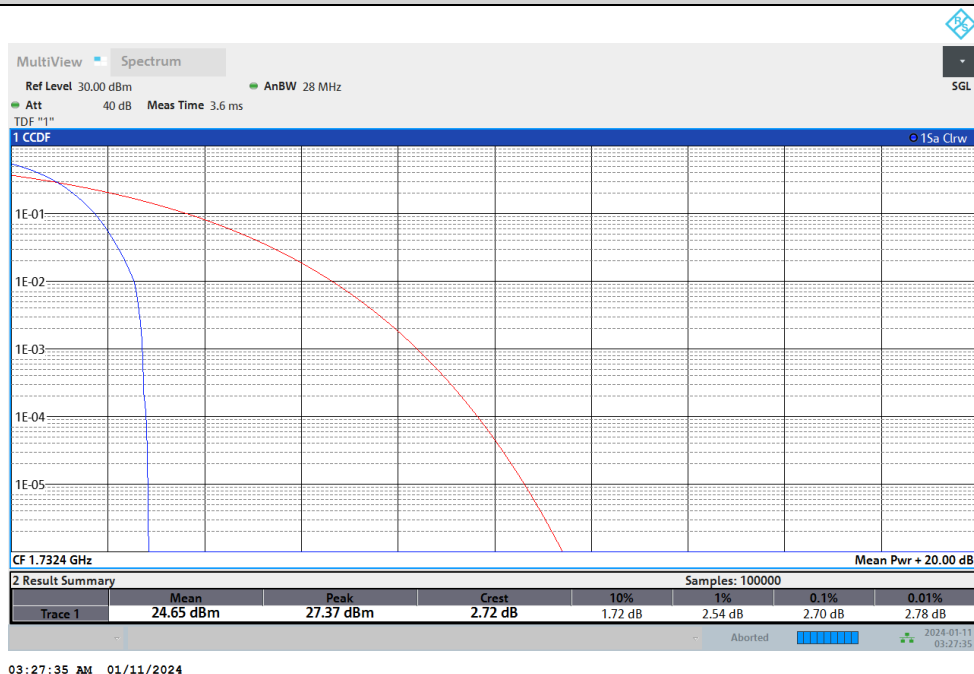
#### PEAK-TO-AVERAGE RATIO

##### Test Result

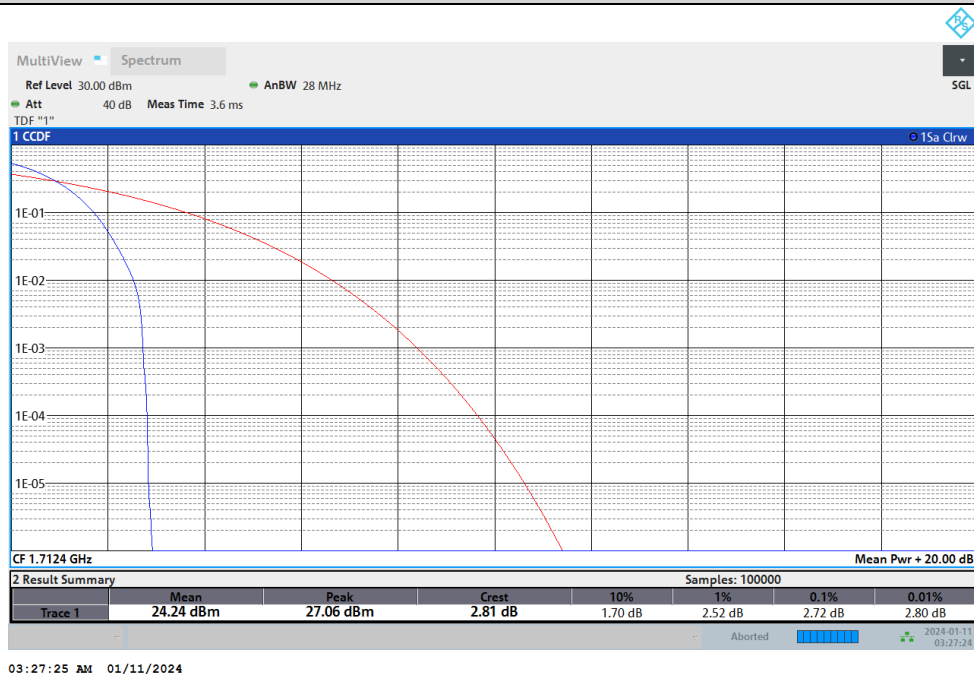
| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dBm) | Verdict |
|-------|---------|---------------------------|------------|---------|
| Band4 | 1312    | 2.70                      | 13         | PASS    |
| Band4 | 1413    | 2.72                      | 13         | PASS    |
| Band4 | 1513    | 2.74                      | 13         | PASS    |

## Test Graphs

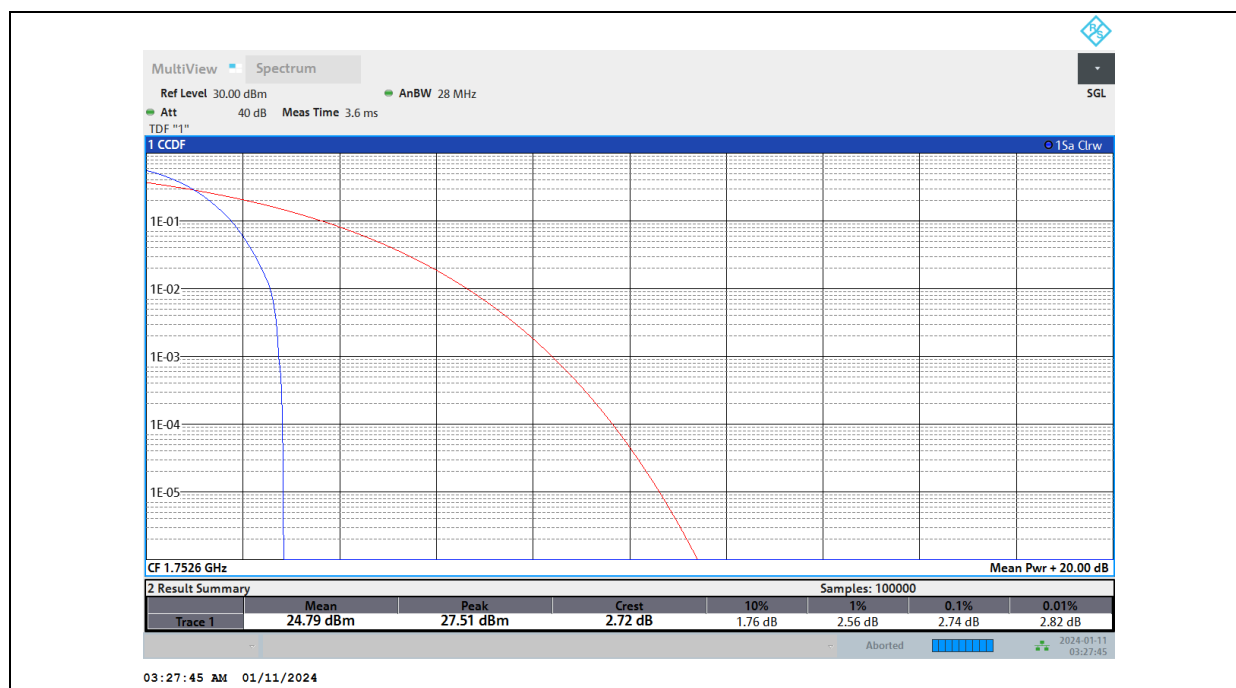
Band4-1312



Band4-1413



Band4-1513



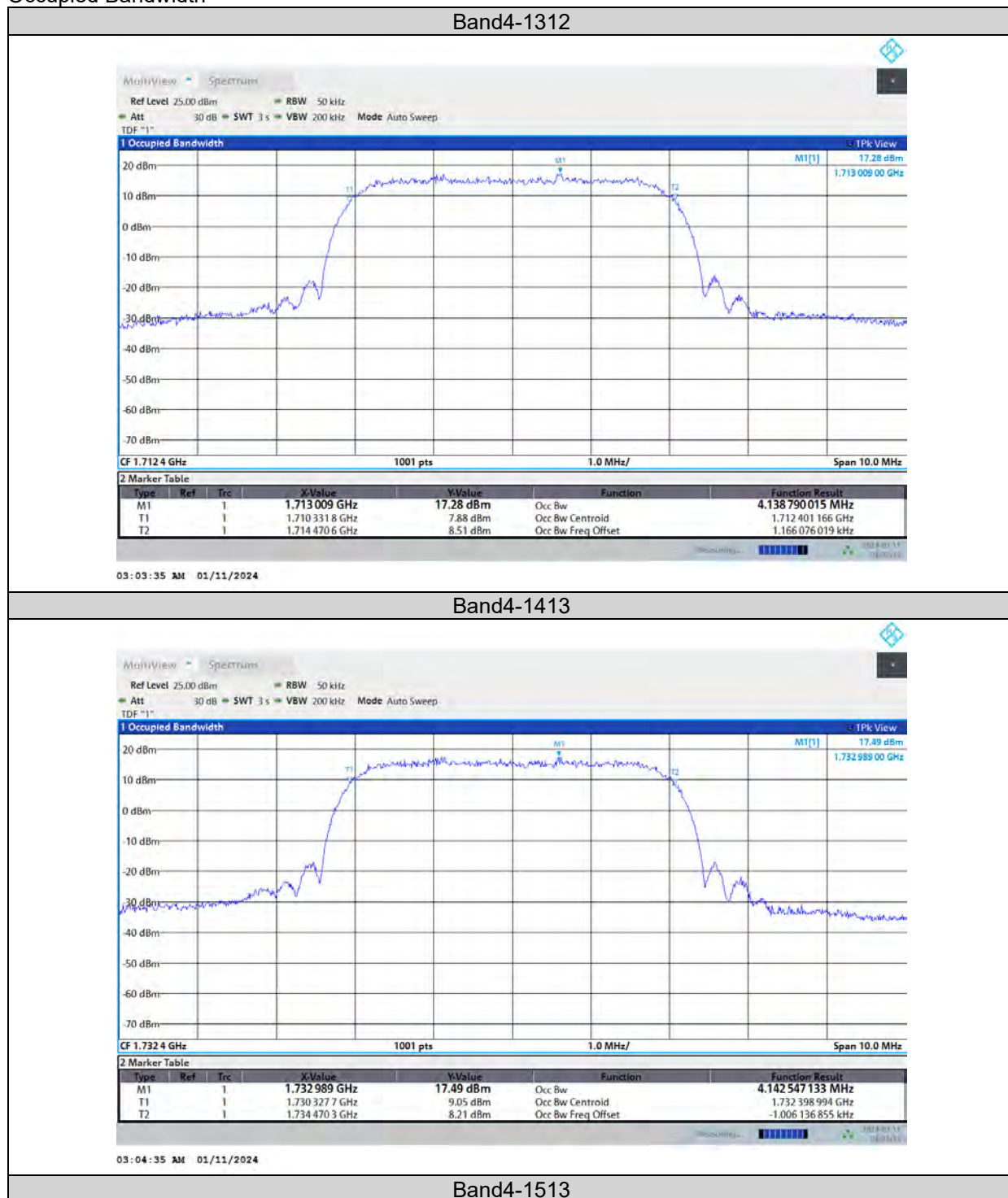
## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

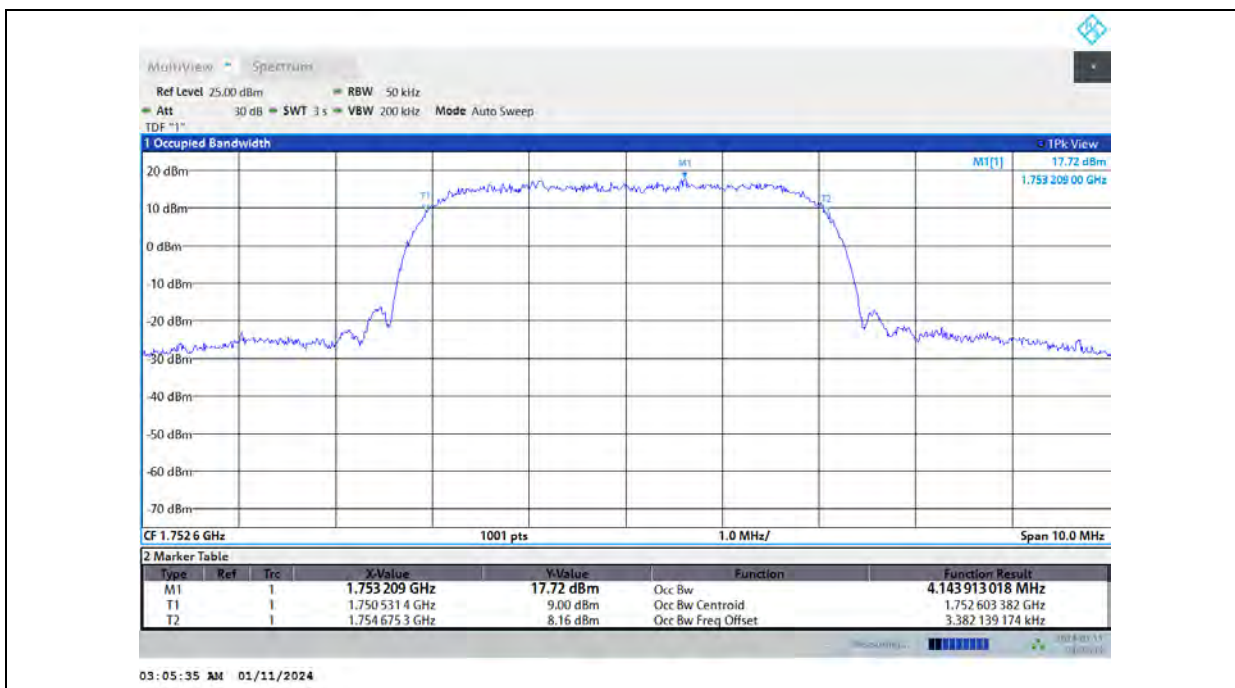
### Test Result

| Band  | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band4 | 1312    | 4.139                       | 4.695                   | ---        | PASS    |
| Band4 | 1413    | 4.143                       | 4.695                   | ---        | PASS    |
| Band4 | 1513    | 4.144                       | 4.715                   | ---        | PASS    |

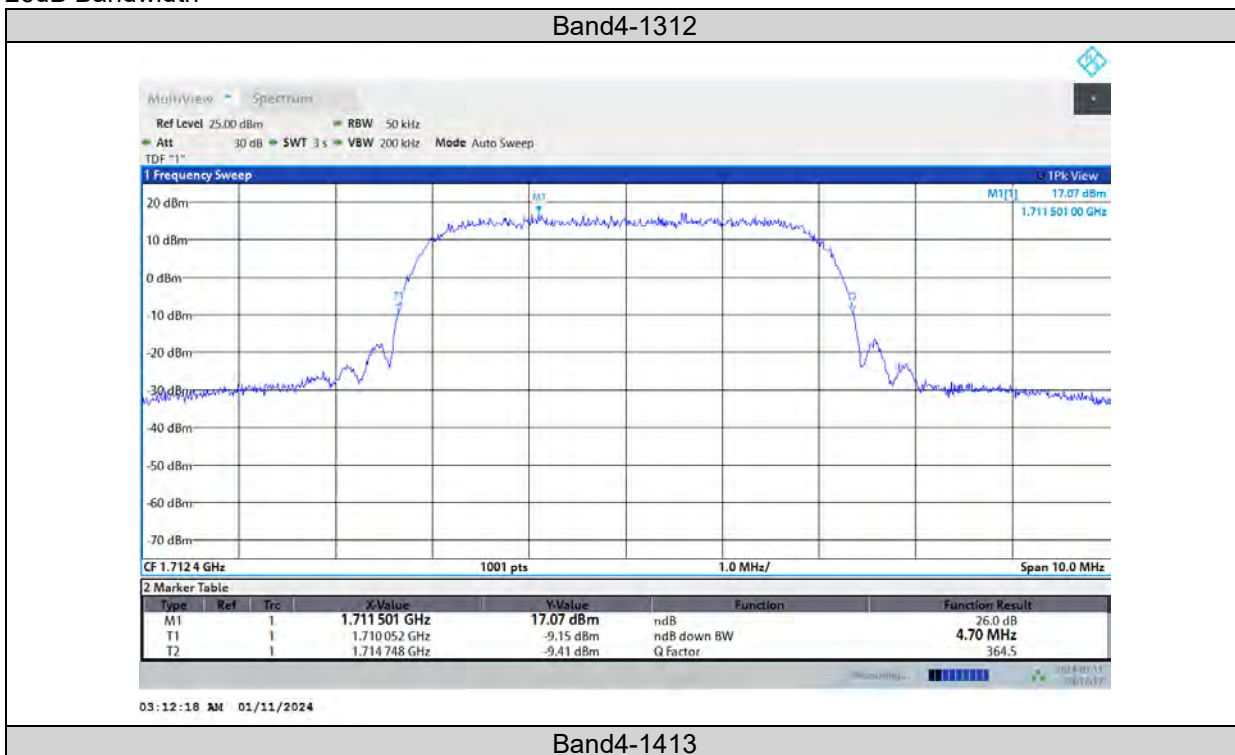
## Test Graphs

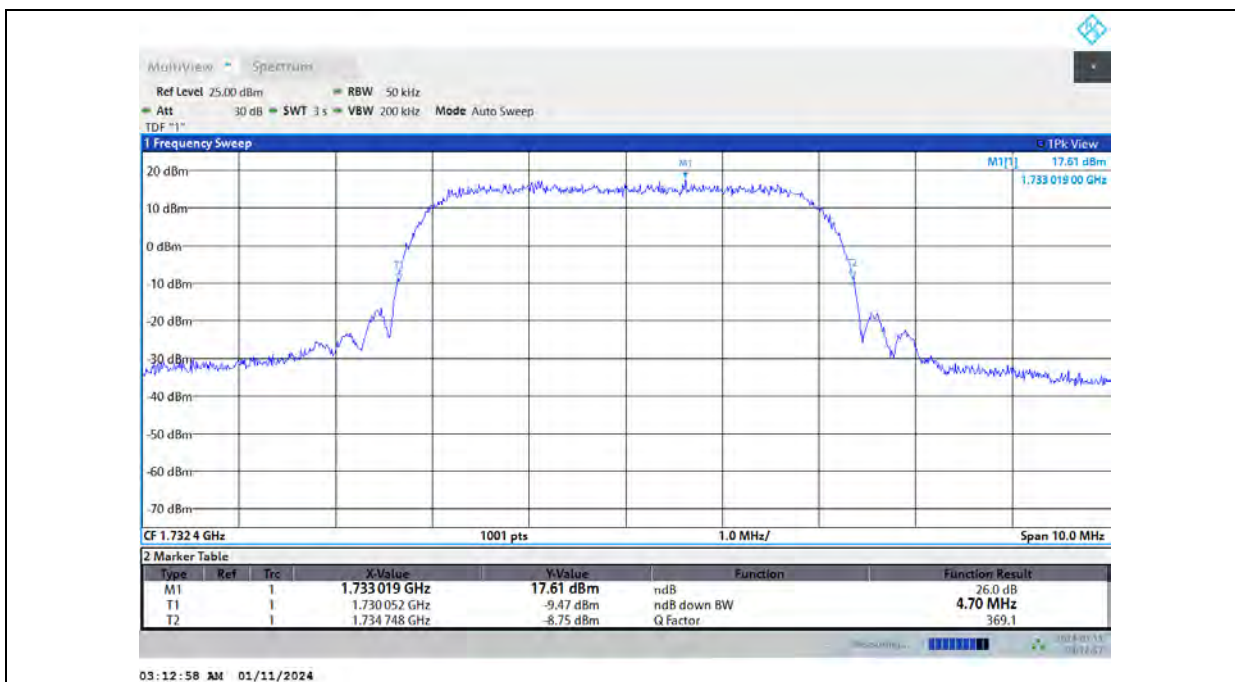
### Occupied Bandwidth



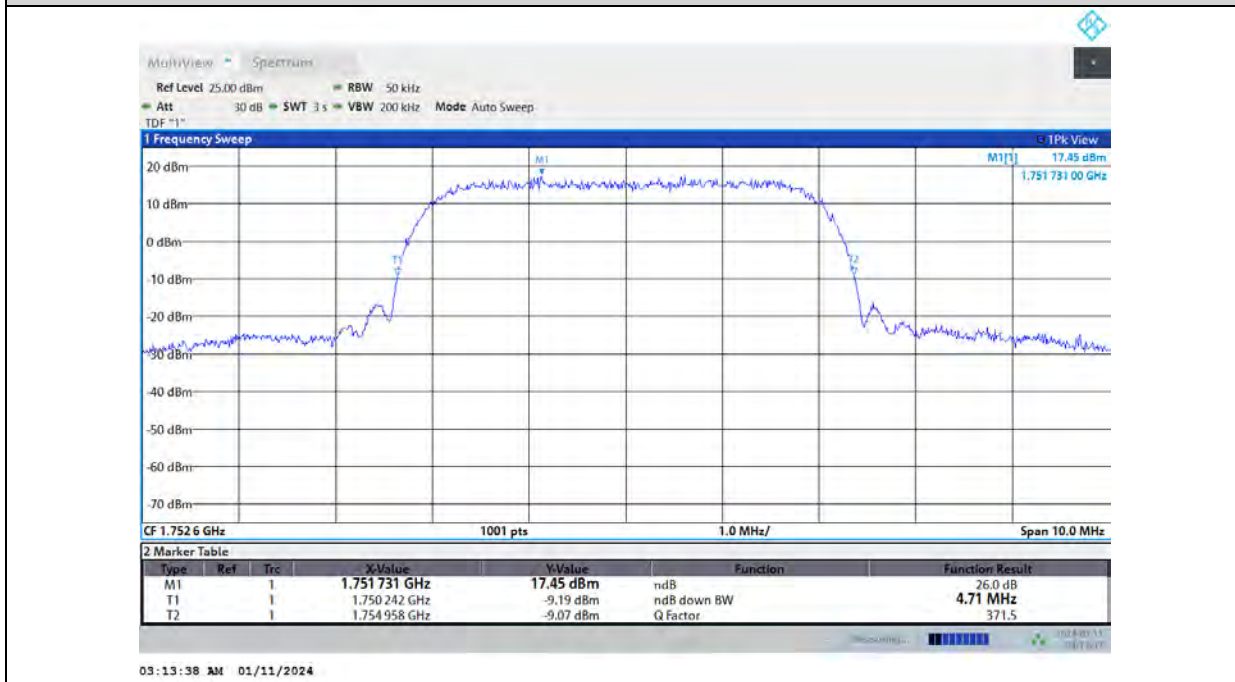


## 26dB Bandwidth





#### Band4-1513





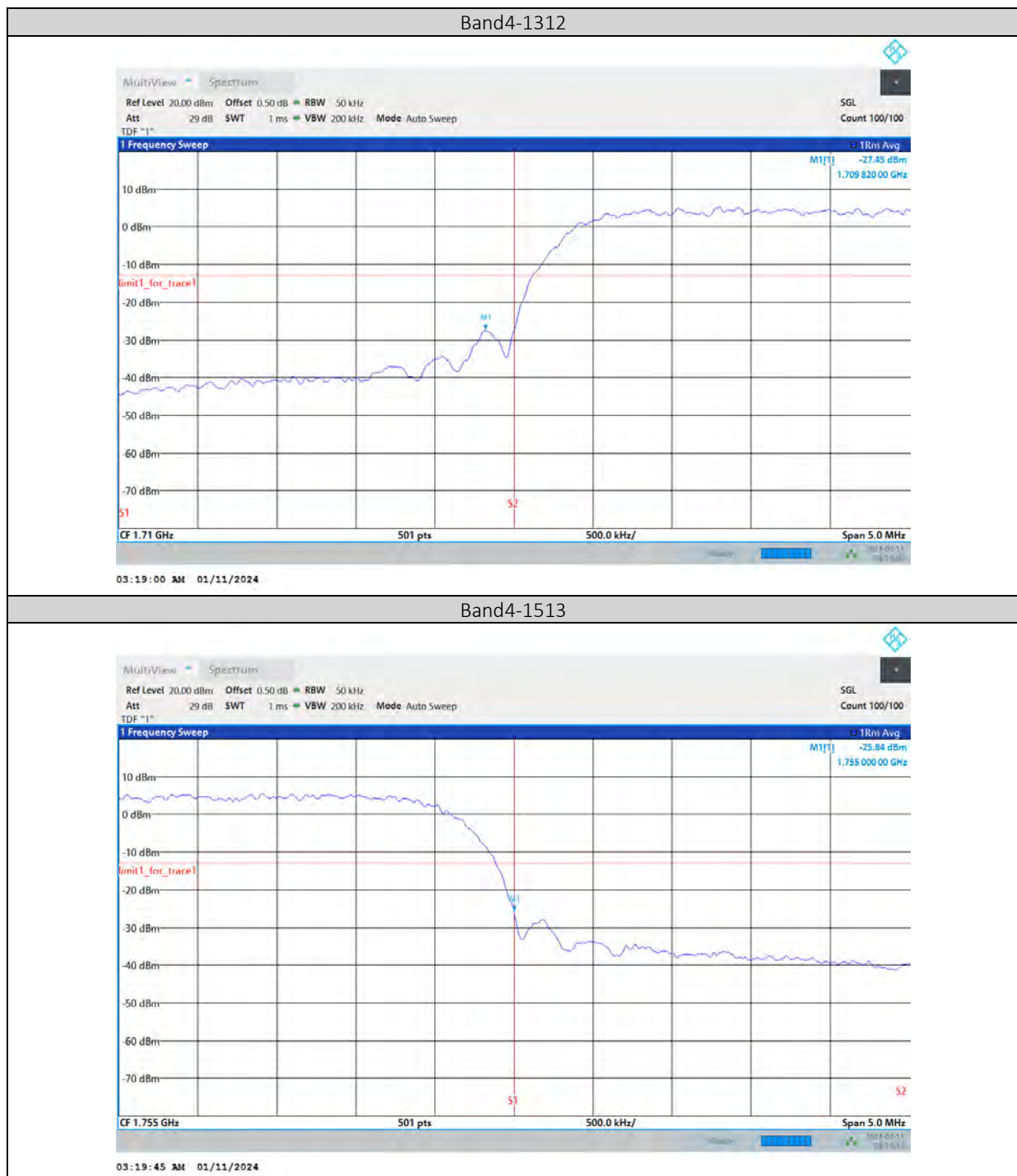
Test Report No.: PSU-QSU2312140113RF03

## BAND EDGE

### Test Result

| Band  | Channel | Frequency (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|-------|---------|-----------------|--------------|------------|---------|
| Band4 | 1312    | 1709.82         | -27.45       | -13        | PASS    |
| Band4 | 1513    | 1755.00         | -25.84       | -13        | PASS    |

## Test Graphs





Test Report No.: PSU-QSU2312140113RF03

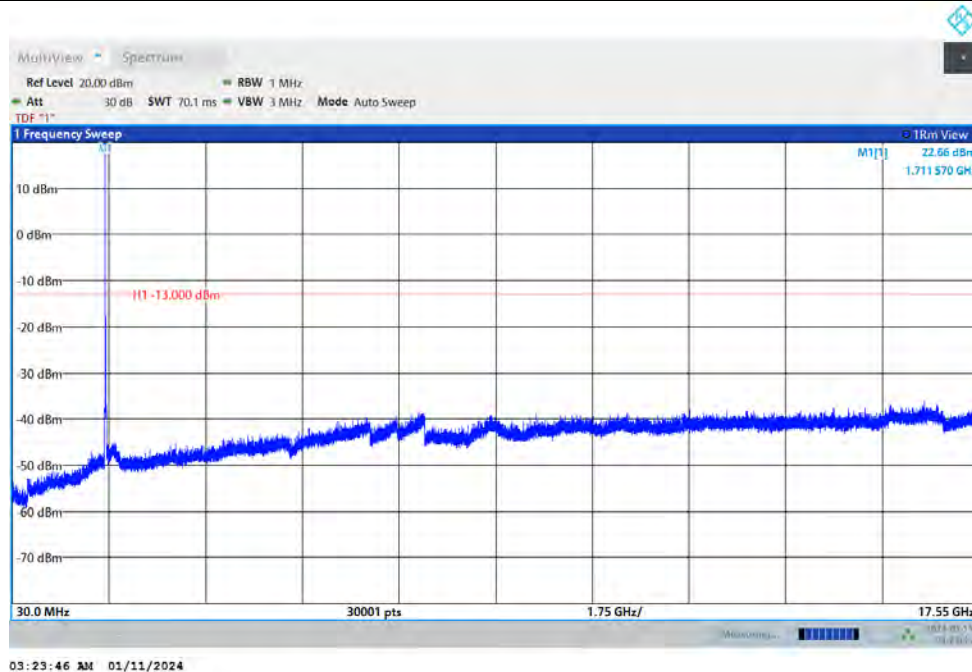
## CONDUCTED SPURIOUS EMISSION

### Test Result

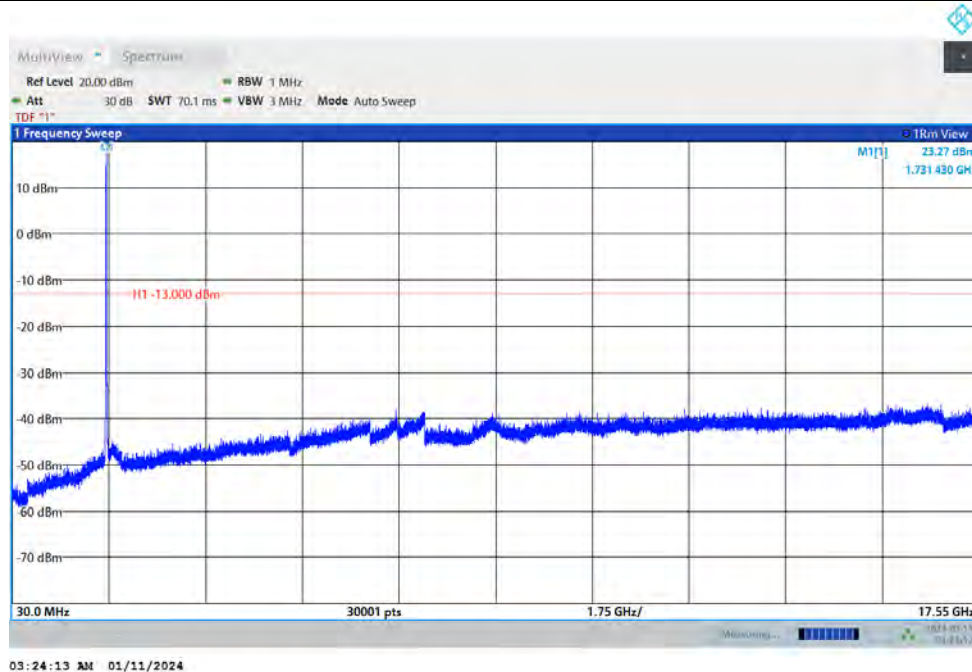
| Band  | Channel | Frequency Range (Mhz) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|--------------|-------------|---------|
| Band4 | 1312    | 30~17550MHz           | See Graph    | -13         | PASS    |
| Band4 | 1413    | 30~17550MHz           | See Graph    | -13         | PASS    |
| Band4 | 1513    | 30~17550MHz           | See Graph    | -13         | PASS    |

## Test Graphs

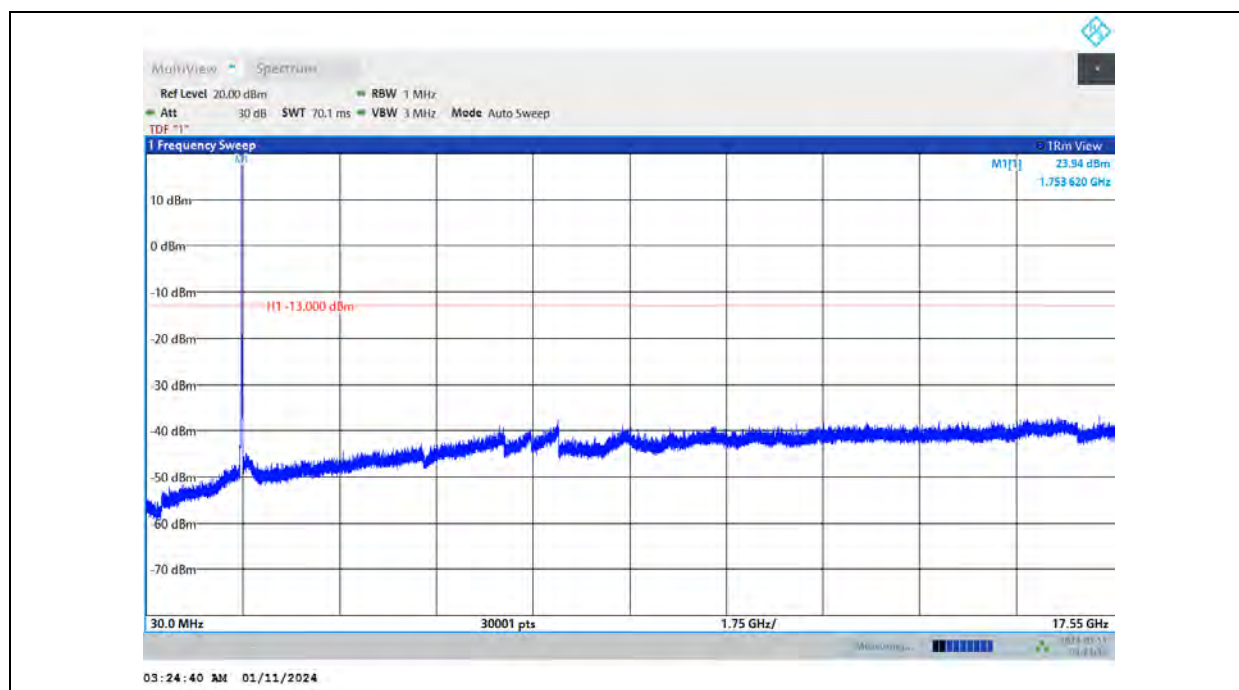
Band4-1312-30~1000MHz



Band4-1413-30~1000MHz



Band4-1513-30~1000MHz



## FREQUENCY STABILITY

### Test Result

| Voltage |         |               |                  |                |                 |             |         |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4   | 1312    | VL            | NT               | 0.27           | 0.000158        | ±2.5        | PASS    |
| Band4   | 1312    | VN            | NT               | -7.57          | -0.004421       | ±2.5        | PASS    |
| Band4   | 1312    | VH            | NT               | -7.2           | -0.004205       | ±2.5        | PASS    |
| Band4   | 1413    | VL            | NT               | -1.11          | -0.000635       | ±2.5        | PASS    |
| Band4   | 1413    | VN            | NT               | -3.42          | -0.001957       | ±2.5        | PASS    |
| Band4   | 1413    | VH            | NT               | 7.37           | 0.004217        | ±2.5        | PASS    |
| Band4   | 1513    | VL            | NT               | -4.63          | -0.002597       | ±2.5        | PASS    |
| Band4   | 1513    | VN            | NT               | 3              | 0.001683        | ±2.5        | PASS    |
| Band4   | 1513    | VH            | NT               | 3.37           | 0.001890        | ±2.5        | PASS    |

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4       | 1312    | NV            | -30              | -3.59          | -0.002096       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -20              | 6.17           | 0.003603        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | -10              | -5.95          | -0.003475       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 0                | 7.07           | 0.004129        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 10               | 3.47           | 0.002026        | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 20               | -5.62          | -0.003282       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 30               | -7.28          | -0.004251       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 40               | -2.53          | -0.001477       | ±2.5        | PASS    |
| Band4       | 1312    | NV            | 50               | 8.73           | 0.004995        | ±2.5        | PASS    |
| Band4       | 1413    | NV            | -30              | 1.37           | 0.000784        | ±2.5        | PASS    |
| Band4       | 1413    | NV            | -20              | 2.75           | 0.001574        | ±2.5        | PASS    |
| Band4       | 1413    | NV            | -10              | 8.94           | 0.005116        | ±2.5        | PASS    |
| Band4       | 1413    | NV            | 0                | -3.61          | -0.002066       | ±2.5        | PASS    |
| Band4       | 1413    | NV            | 10               | 4.91           | 0.002810        | ±2.5        | PASS    |
| Band4       | 1413    | NV            | 20               | 4.38           | 0.002506        | ±2.5        | PASS    |
| Band4       | 1413    | NV            | 30               | 7.14           | 0.004086        | ±2.5        | PASS    |
| Band4       | 1413    | NV            | 40               | -3.06          | -0.001751       | ±2.5        | PASS    |
| Band4       | 1413    | NV            | 50               | 8.5            | 0.004768        | ±2.5        | PASS    |
| Band4       | 1513    | NV            | -30              | -7.91          | -0.004437       | ±2.5        | PASS    |
| Band4       | 1513    | NV            | -20              | 6.89           | 0.003865        | ±2.5        | PASS    |
| Band4       | 1513    | NV            | -10              | -8.75          | -0.004909       | ±2.5        | PASS    |
| Band4       | 1513    | NV            | 0                | 3.23           | 0.001812        | ±2.5        | PASS    |
| Band4       | 1513    | NV            | 10               | -7.44          | -0.004174       | ±2.5        | PASS    |
| Band4       | 1513    | NV            | 20               | 4.56           | 0.002558        | ±2.5        | PASS    |
| Band4       | 1513    | NV            | 30               | 9.19           | 0.005155        | ±2.5        | PASS    |
| Band4       | 1513    | NV            | 40               | 8.69           | 0.004875        | ±2.5        | PASS    |
| Band4       | 1513    | NV            | 50               | -4.83          | -0.002821       | ±2.5        | PASS    |

## **LTE BAND7**

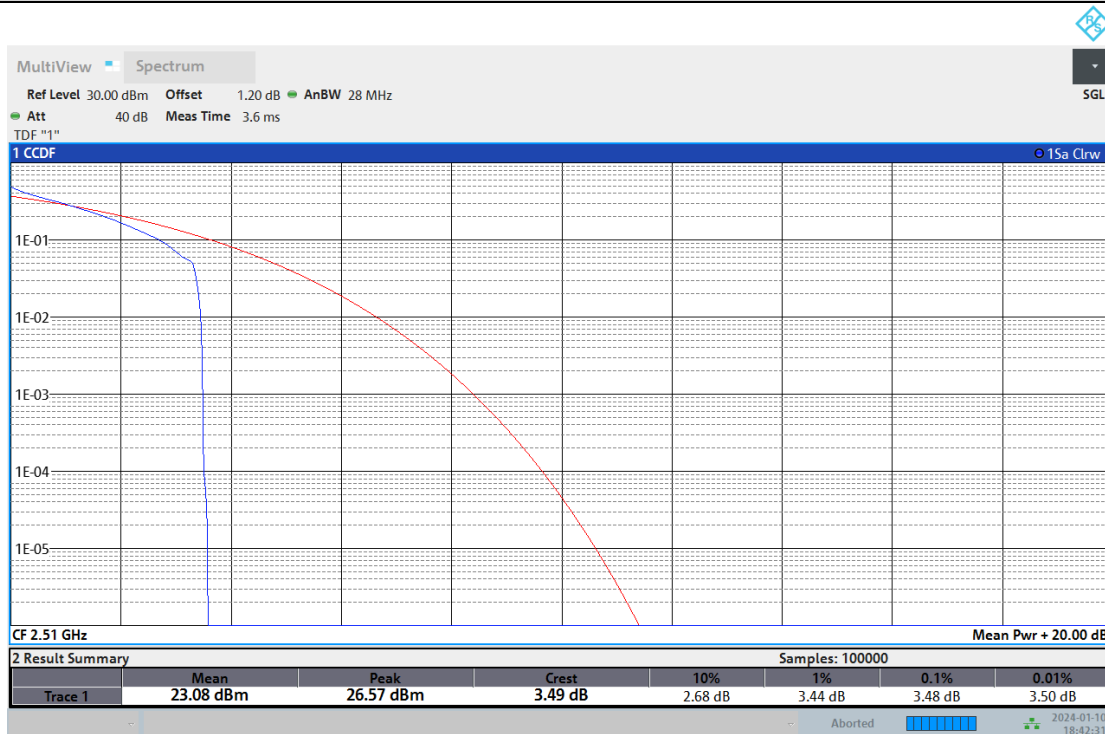
### **PEAK-TO-AVERAGE RATIO(CCDF)**

#### **Test Result**

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 1RB#0            | 3.48       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 4.82       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 1RB#0            | 3.58       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 4.98       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 1RB#0            | 3.60       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 5.18       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 1RB#0            | 5.26       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 5.88       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 1RB#0            | 4.80       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 6.00       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 1RB#0            | 5.44       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 6.02       | 13        | PASS    |
| Band7 | 20MHz     | 64QAM      | 20850   | 1RB#0            | 6.54       | 13        | PASS    |
| Band7 | 20MHz     | 64QAM      | 20850   | 100RB#0          | 6.76       | 13        | PASS    |
| Band7 | 20MHz     | 64QAM      | 21100   | 1RB#0            | 6.88       | 13        | PASS    |
| Band7 | 20MHz     | 64QAM      | 21100   | 100RB#0          | 6.76       | 13        | PASS    |
| Band7 | 20MHz     | 64QAM      | 21350   | 1RB#0            | 6.68       | 13        | PASS    |
| Band7 | 20MHz     | 64QAM      | 21350   | 100RB#0          | 6.84       | 13        | PASS    |

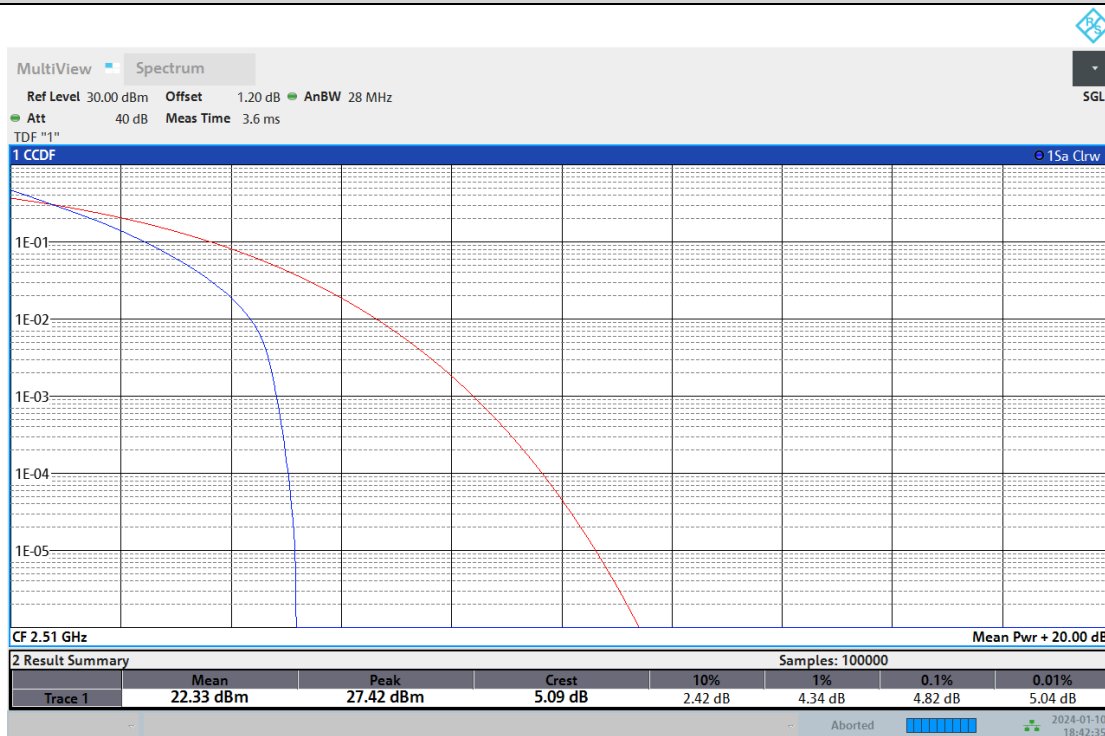
## Test Graphs

Band7-20MHz-QPSK-20850-1RB#0



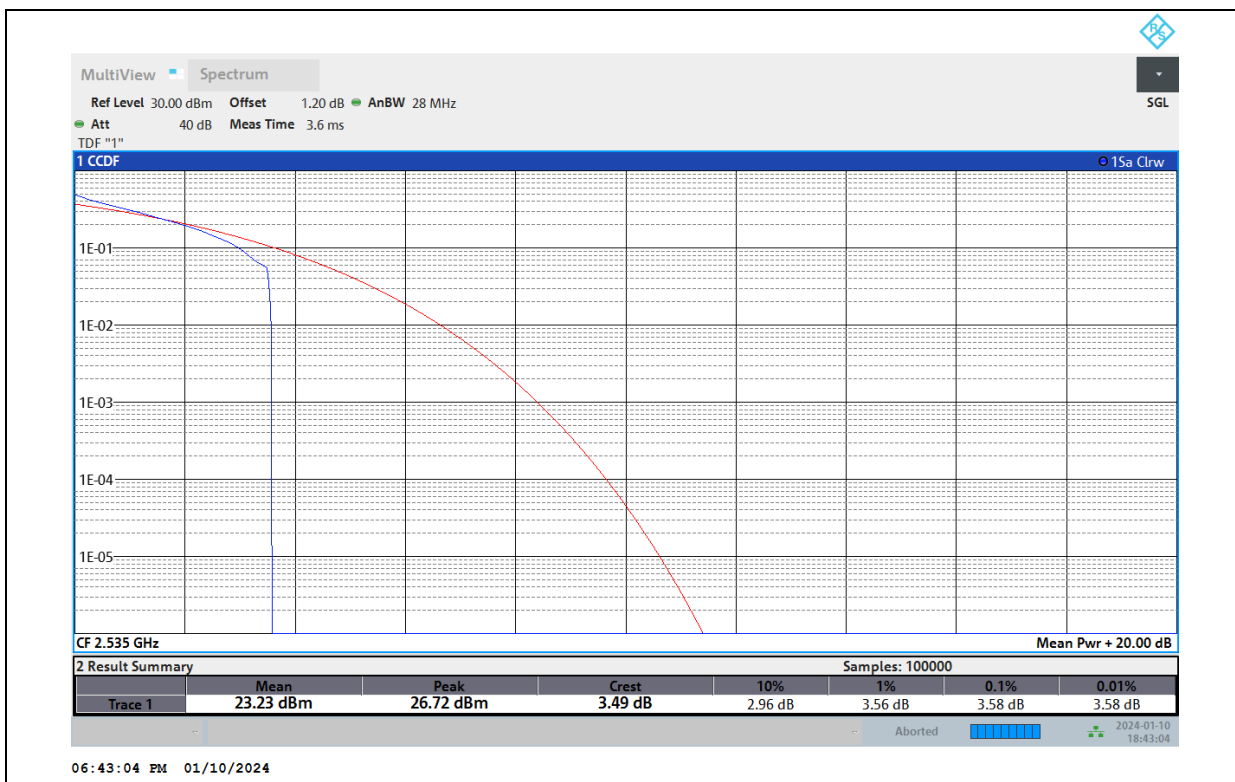
06:42:31 PM 01/10/2024

Band7-20MHz-QPSK-20850-100RB#0

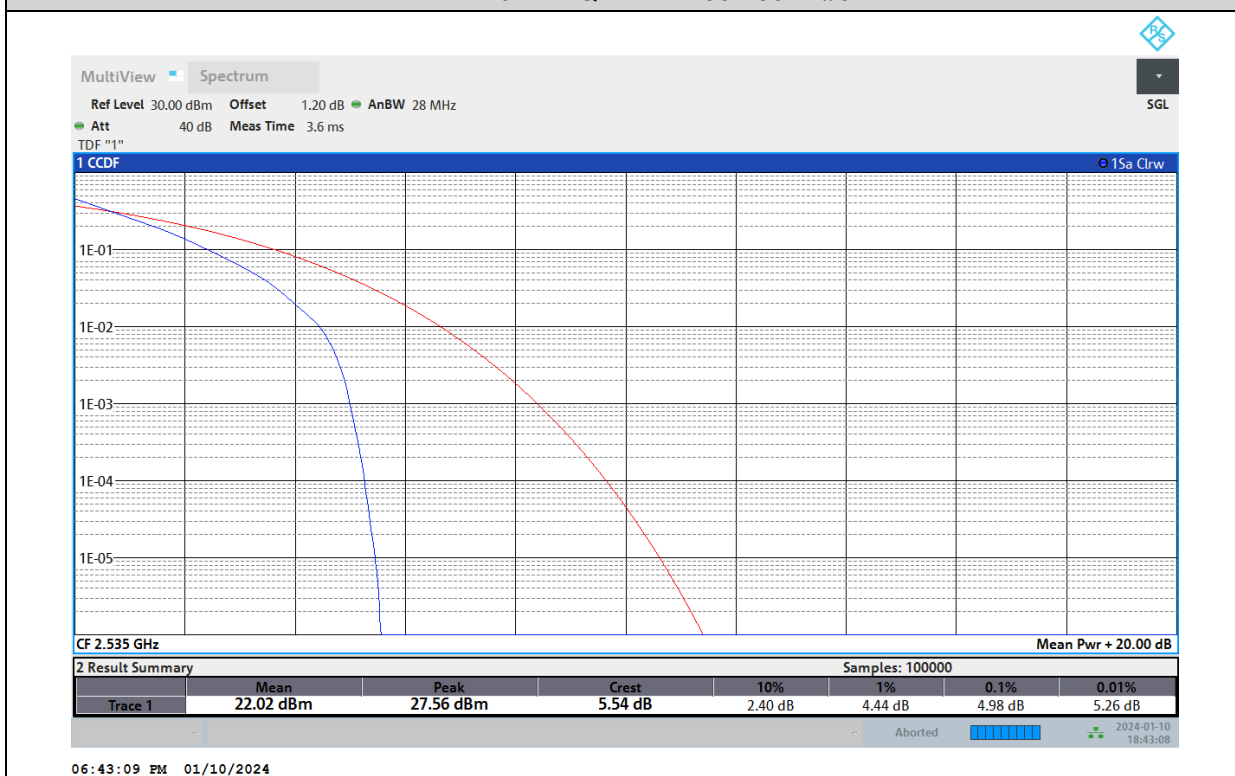


06:42:35 PM 01/10/2024

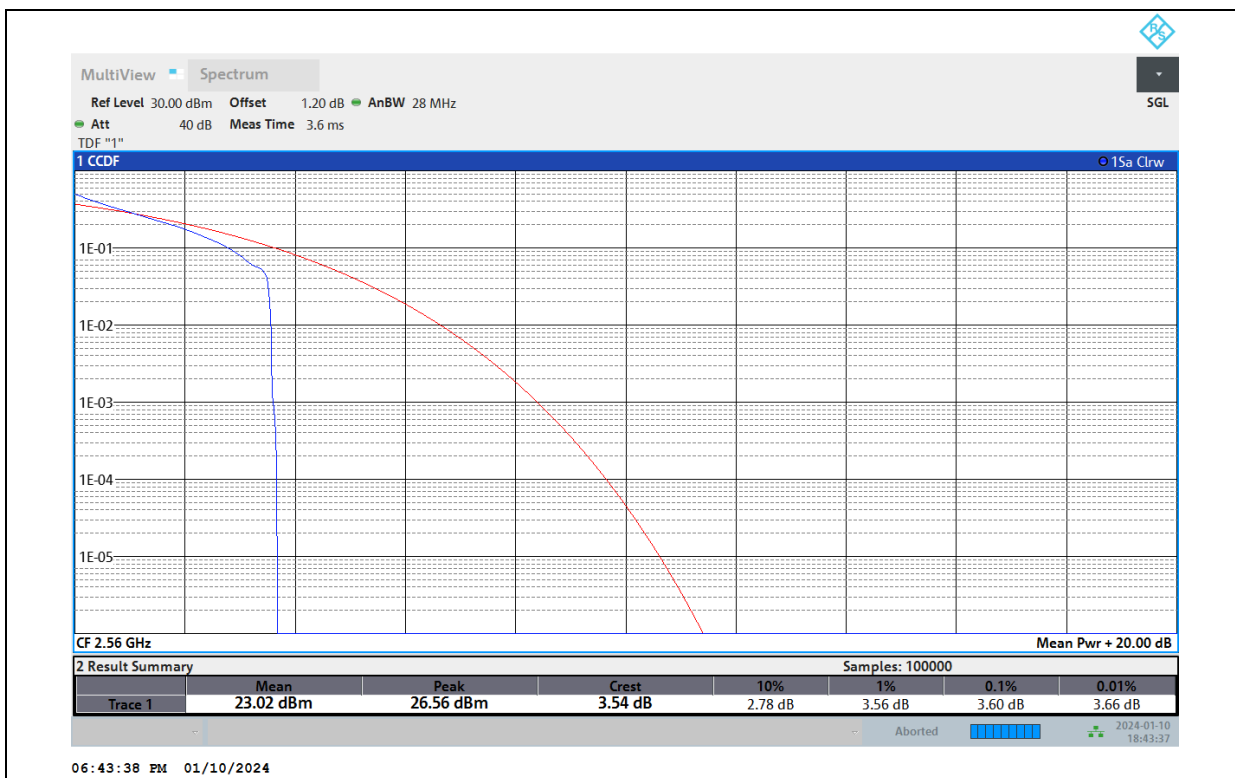
Band7-20MHz-QPSK-21100-1RB#0



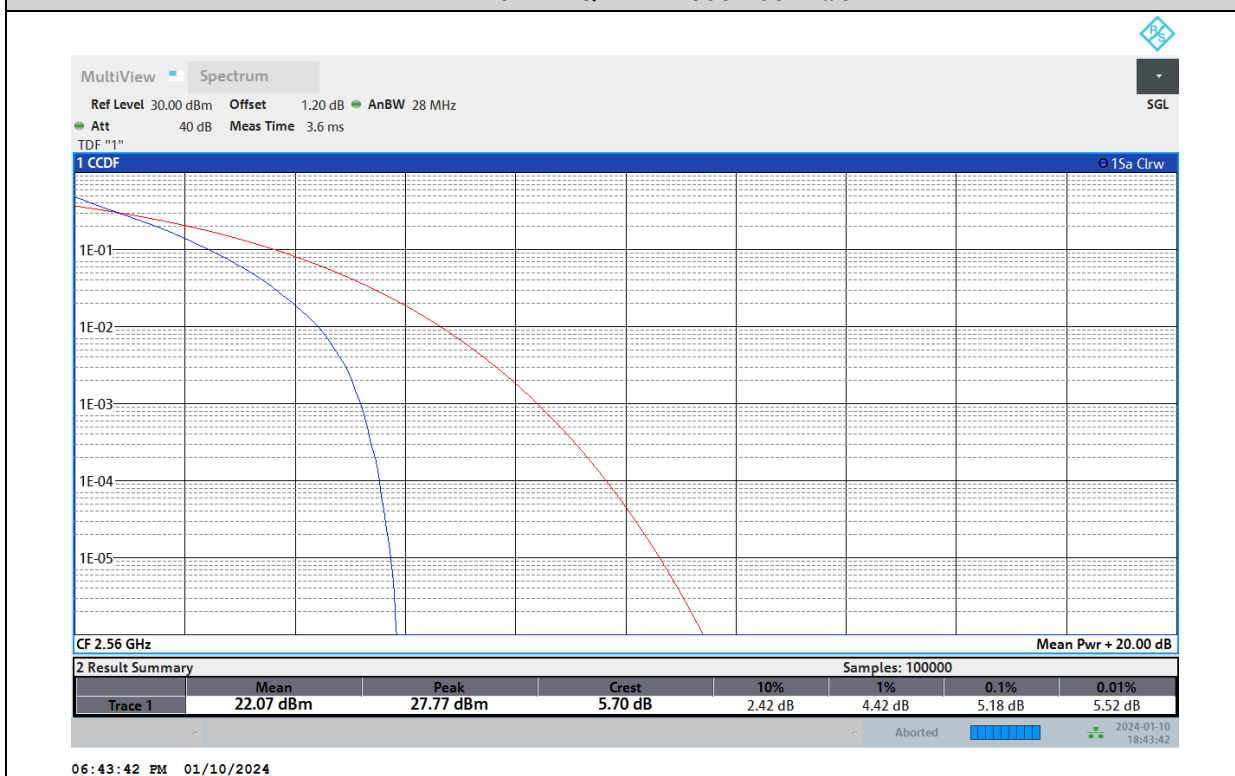
Band7-20MHz-QPSK-21100-100RB#0



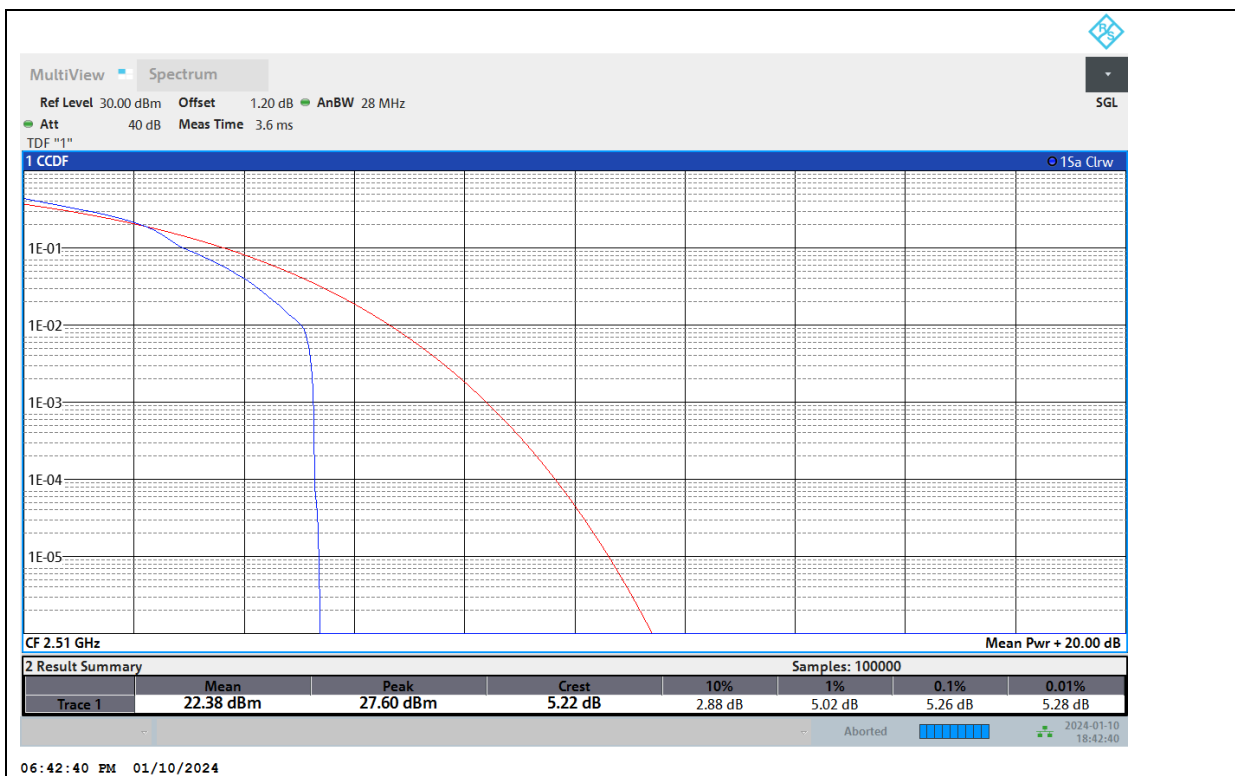
Band7-20MHz-QPSK-21350-1RB#0



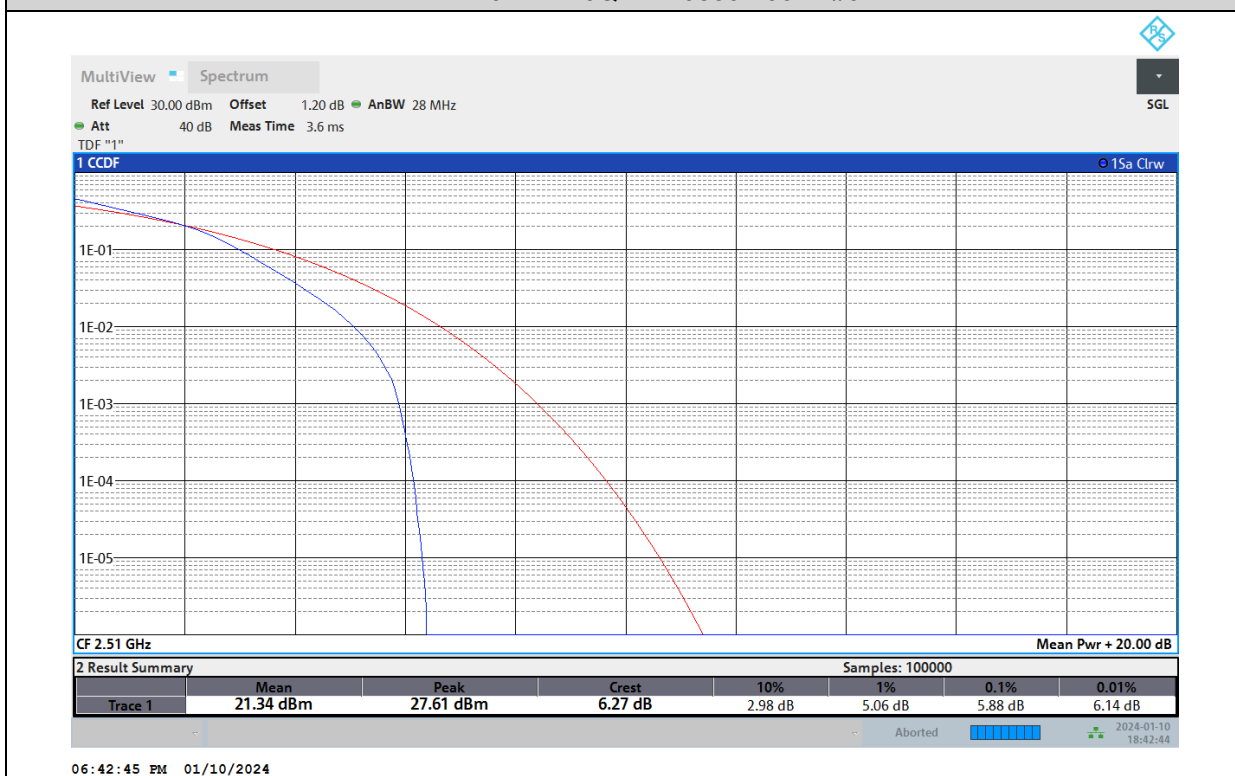
Band7-20MHz-QPSK-21350-100RB#0



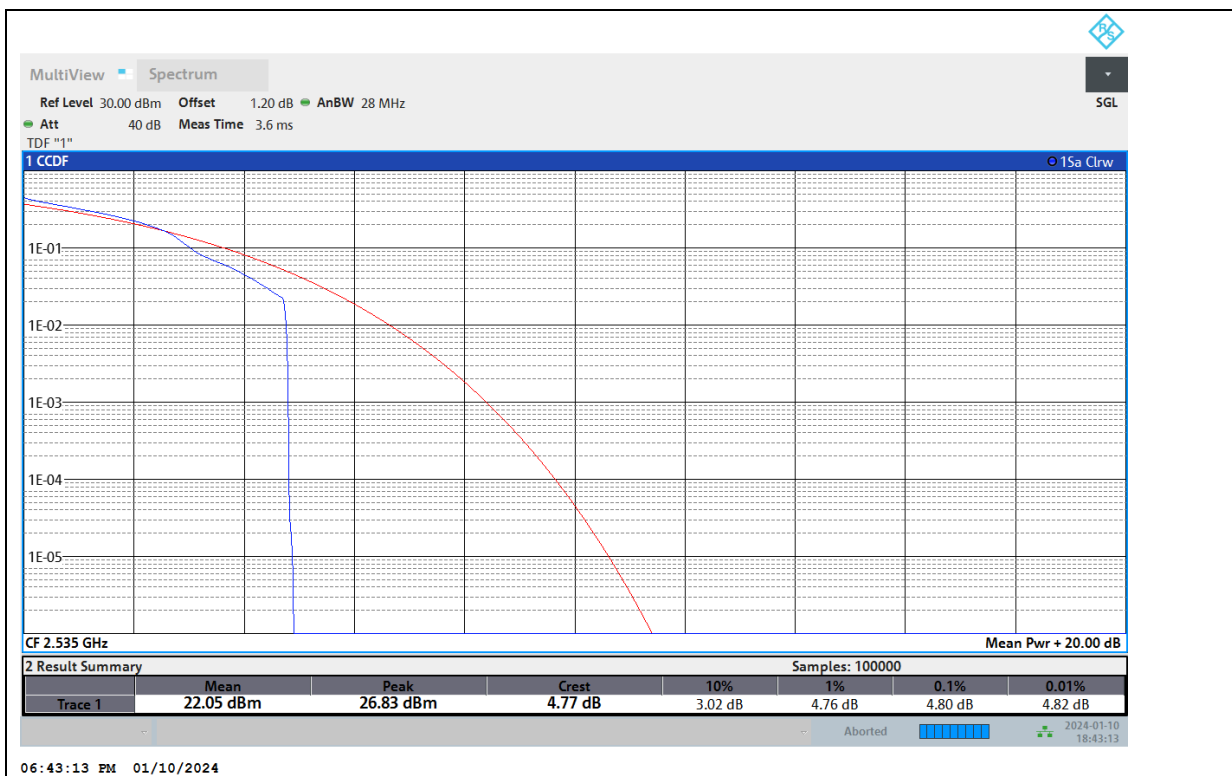
Band7-20MHz-16QAM-20850-1RB#0



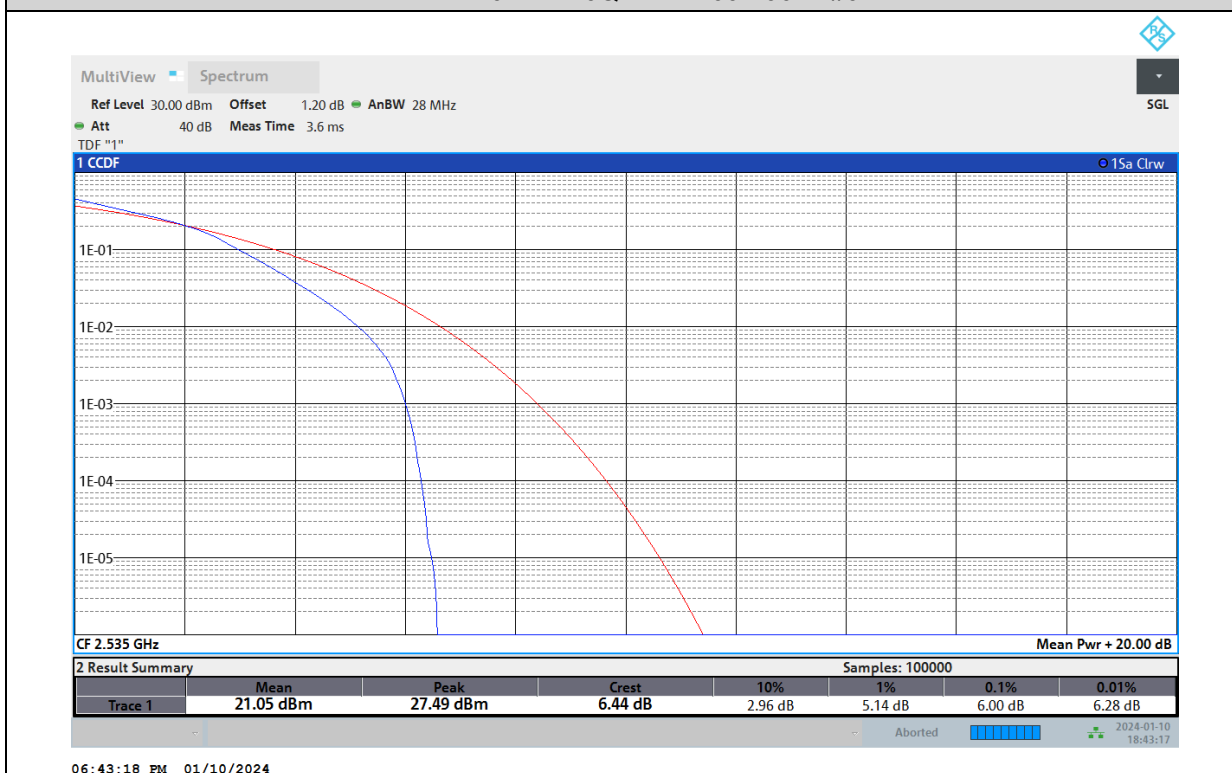
Band7-20MHz-16QAM-20850-100RB#0



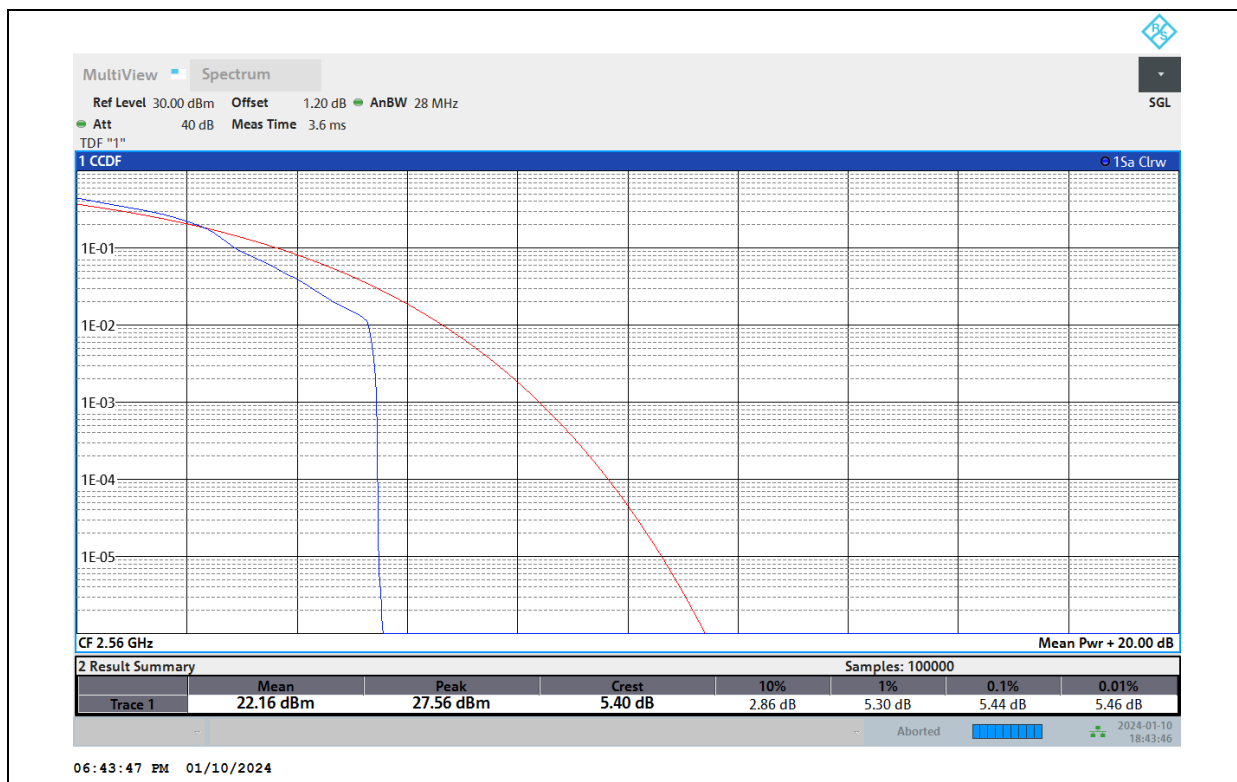
Band7-20MHz-16QAM-21100-1RB#0



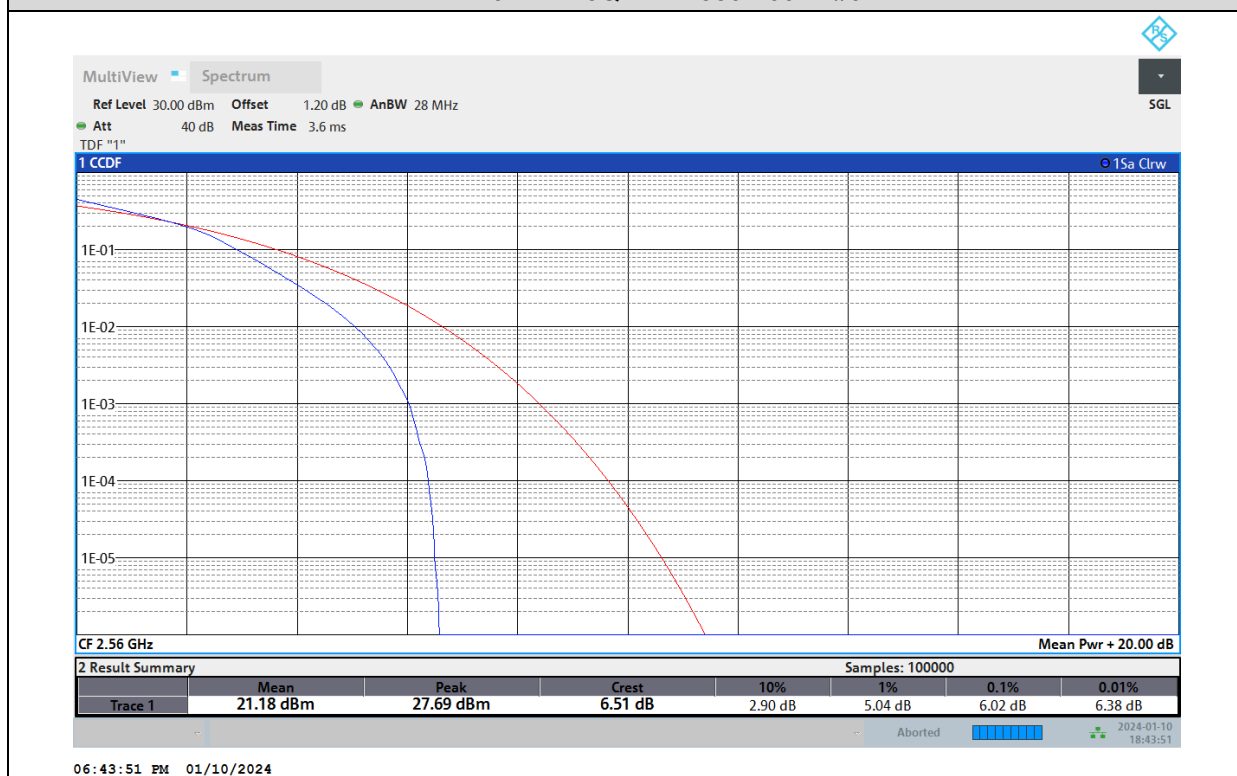
Band7-20MHz-16QAM-21100-100RB#0



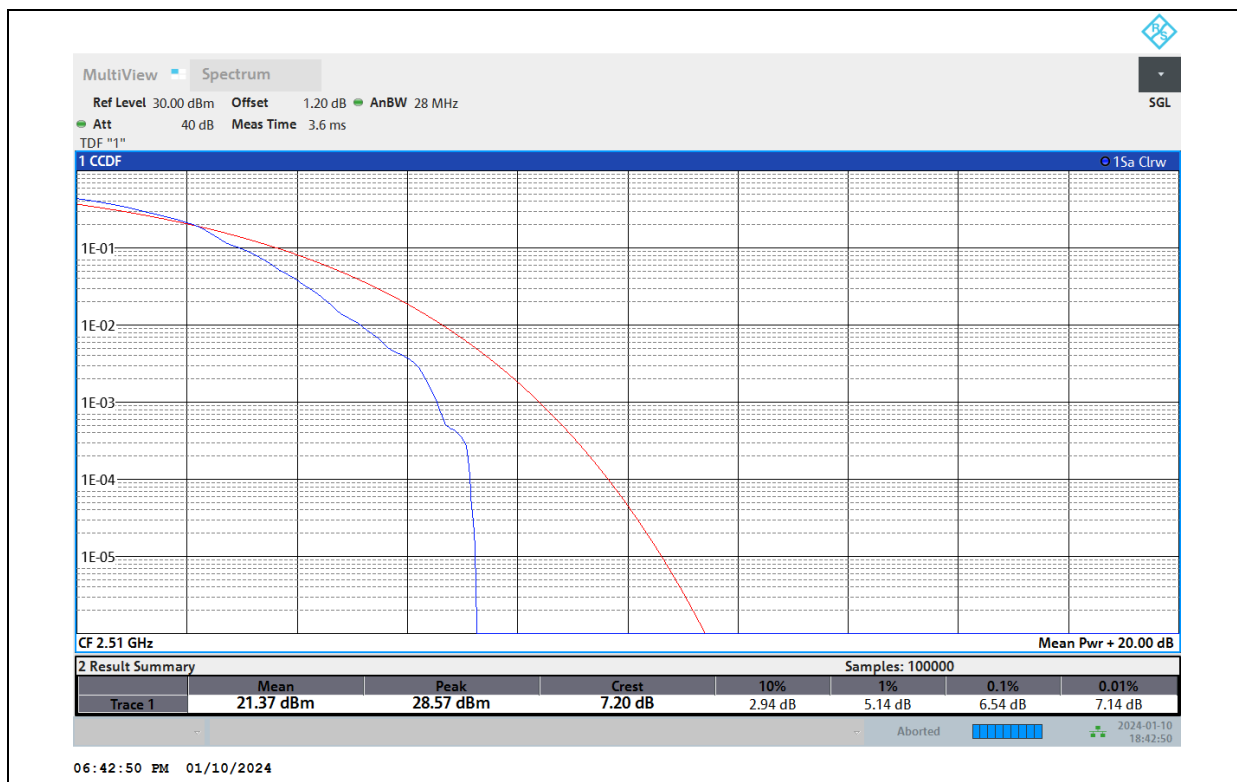
Band7-20MHz-16QAM-21350-1RB#0



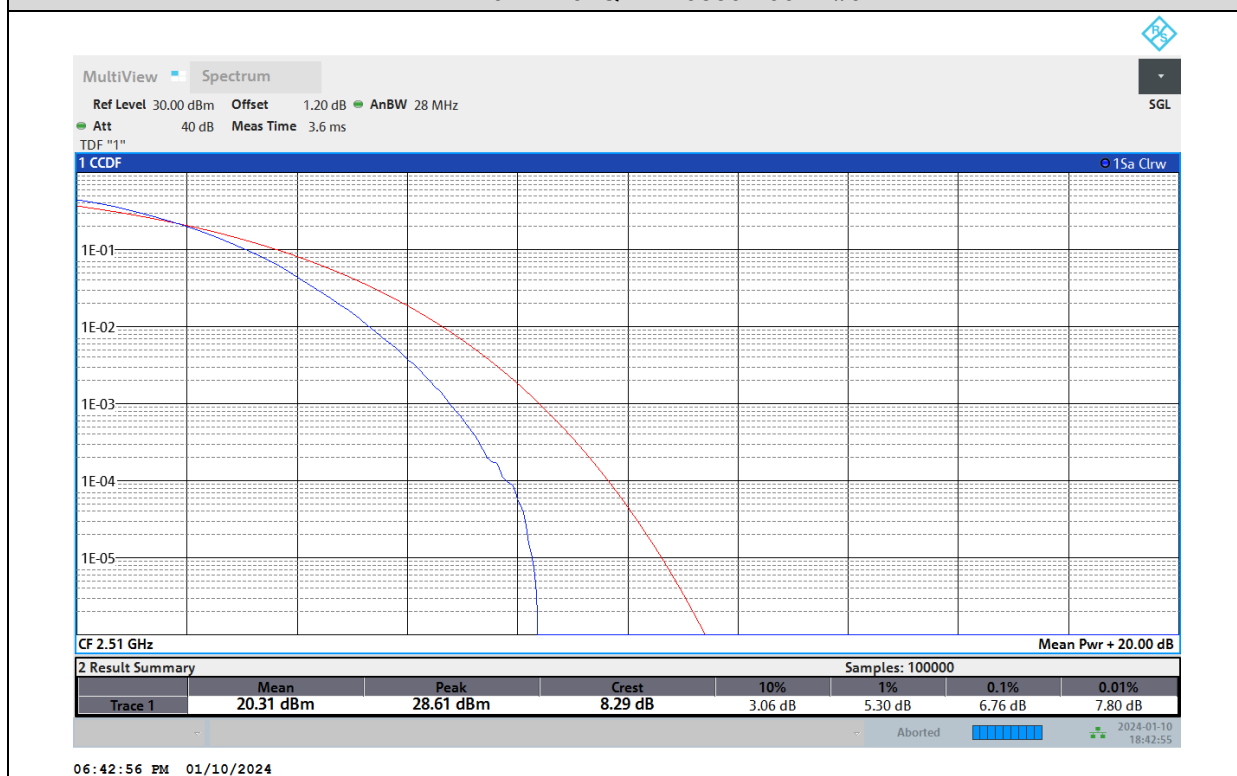
Band7-20MHz-16QAM-21350-100RB#0



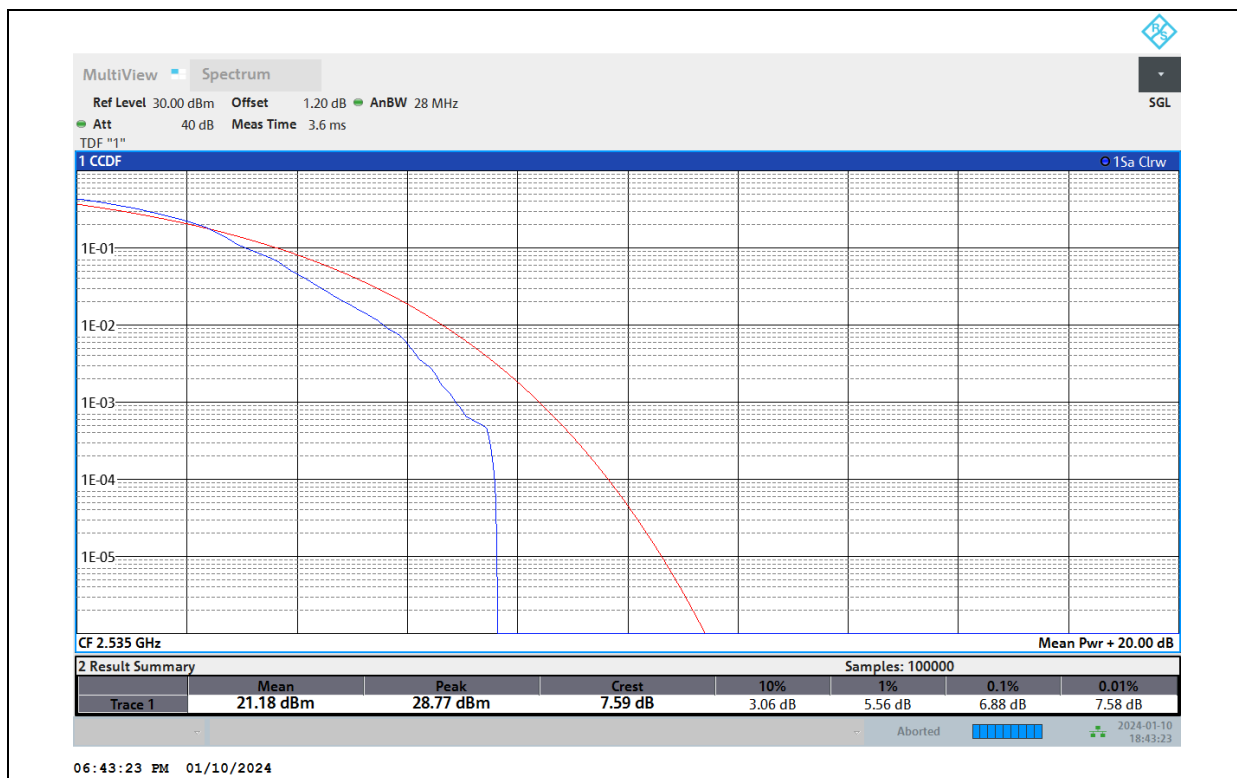
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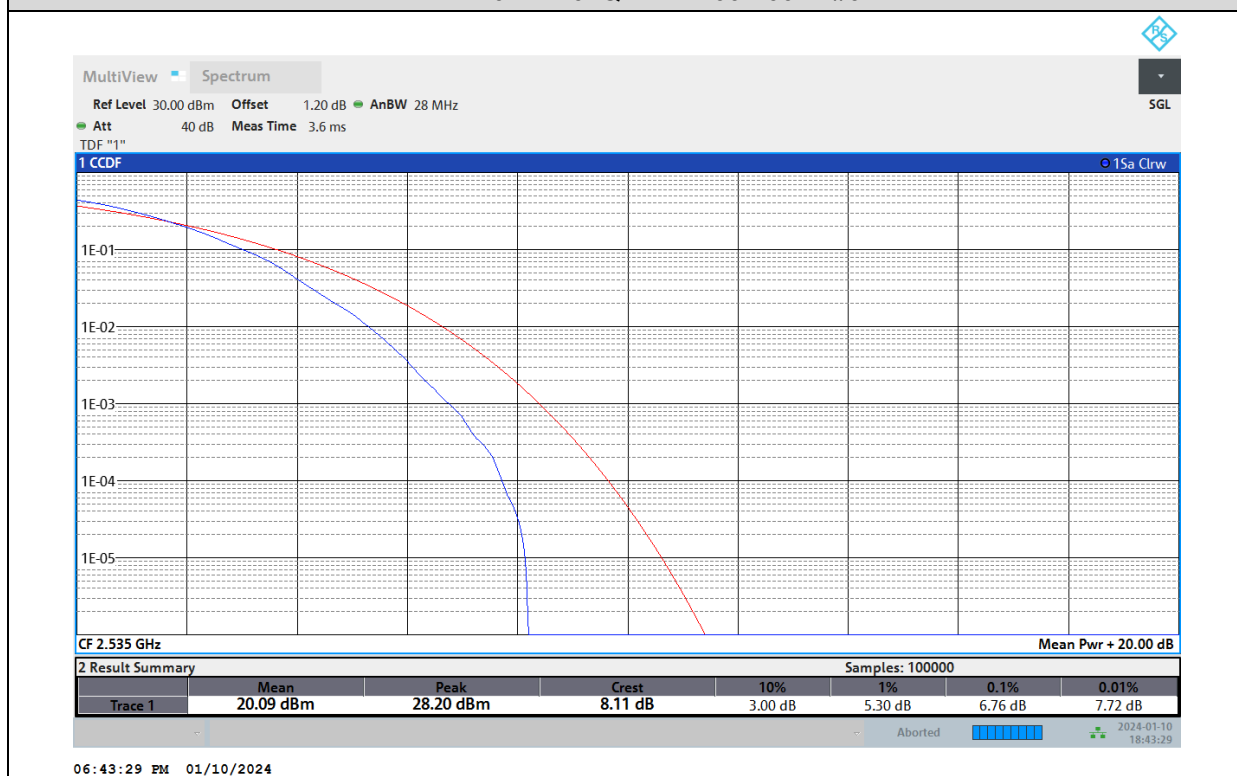
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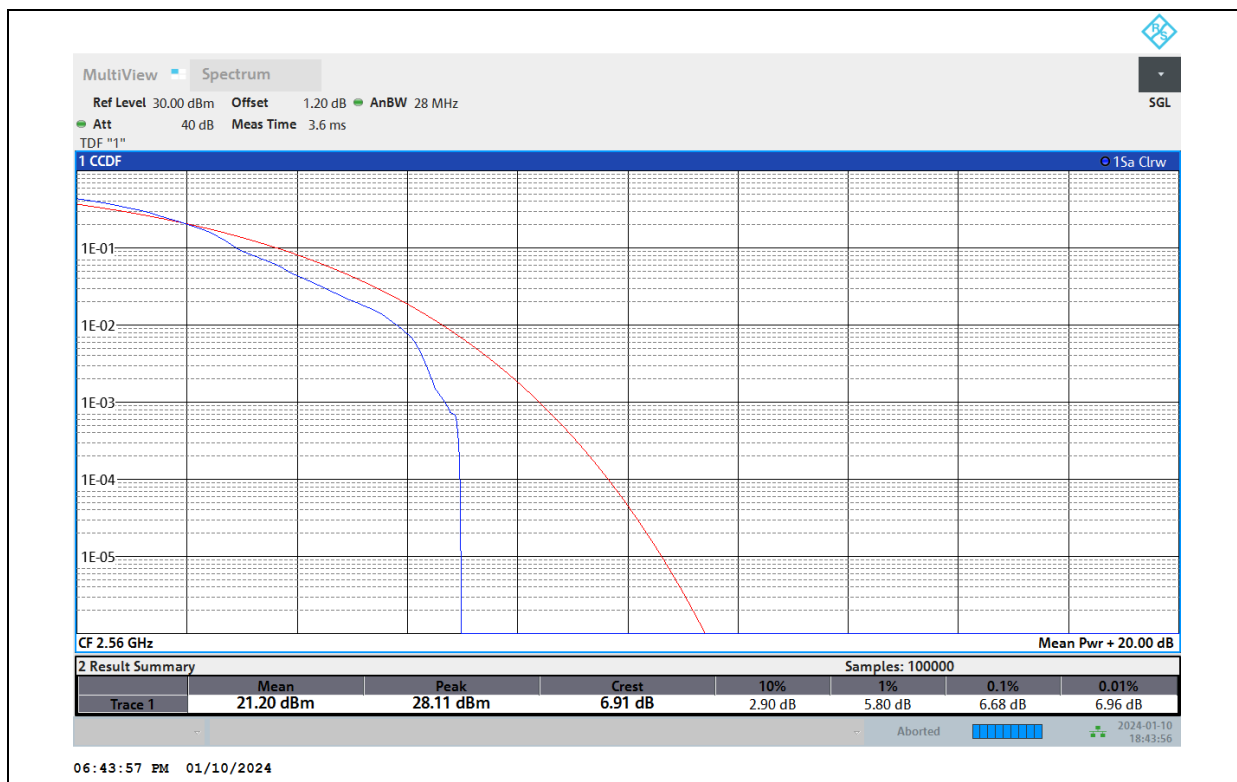
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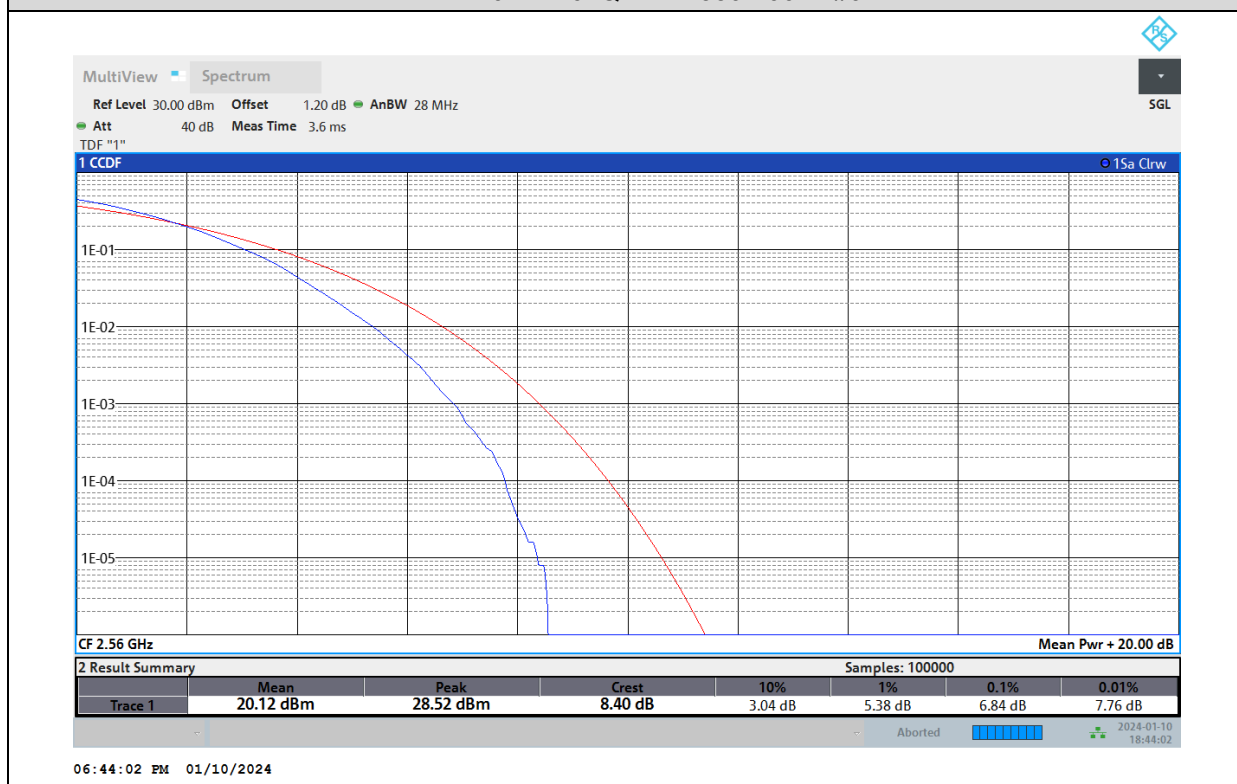
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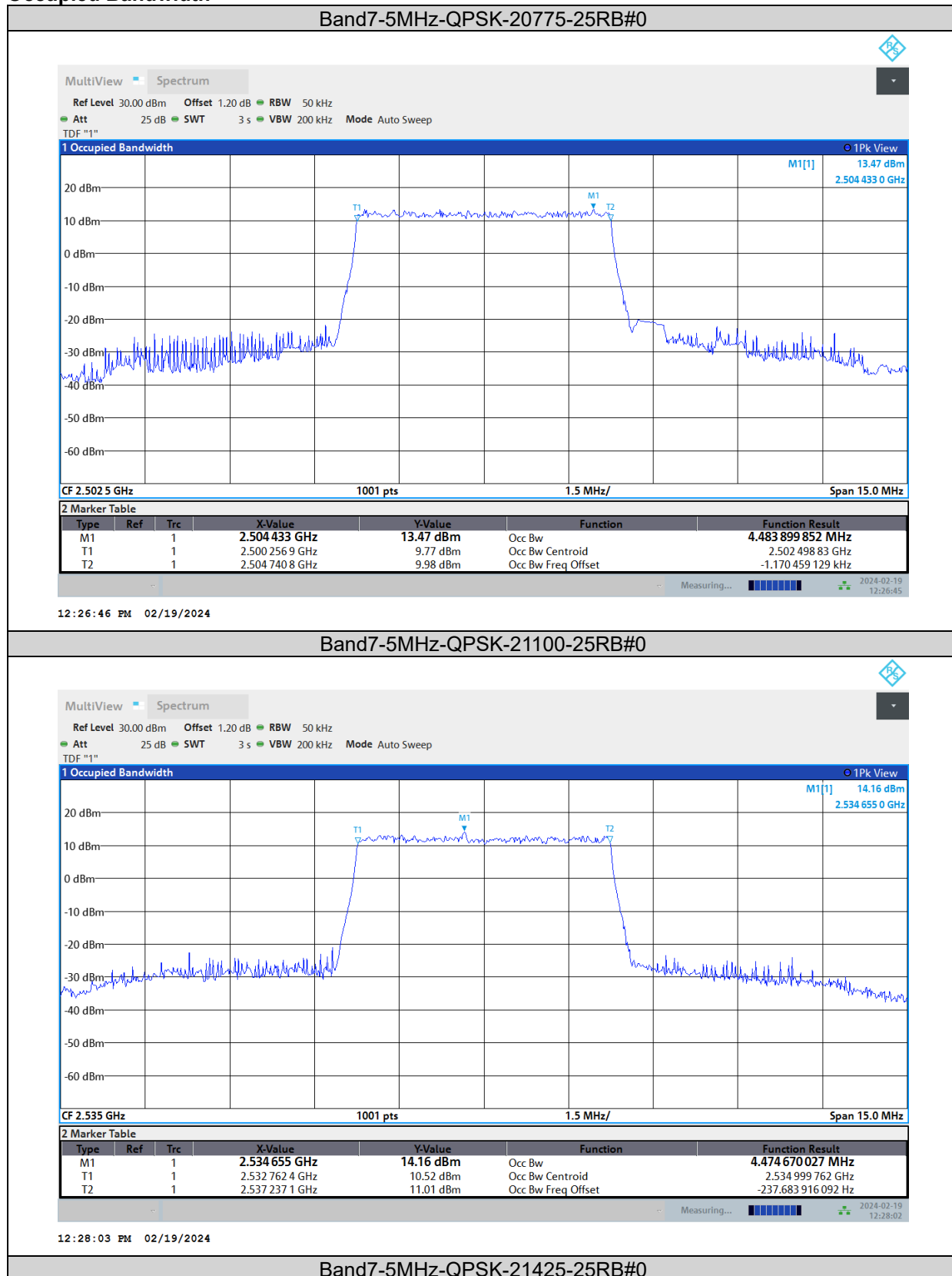


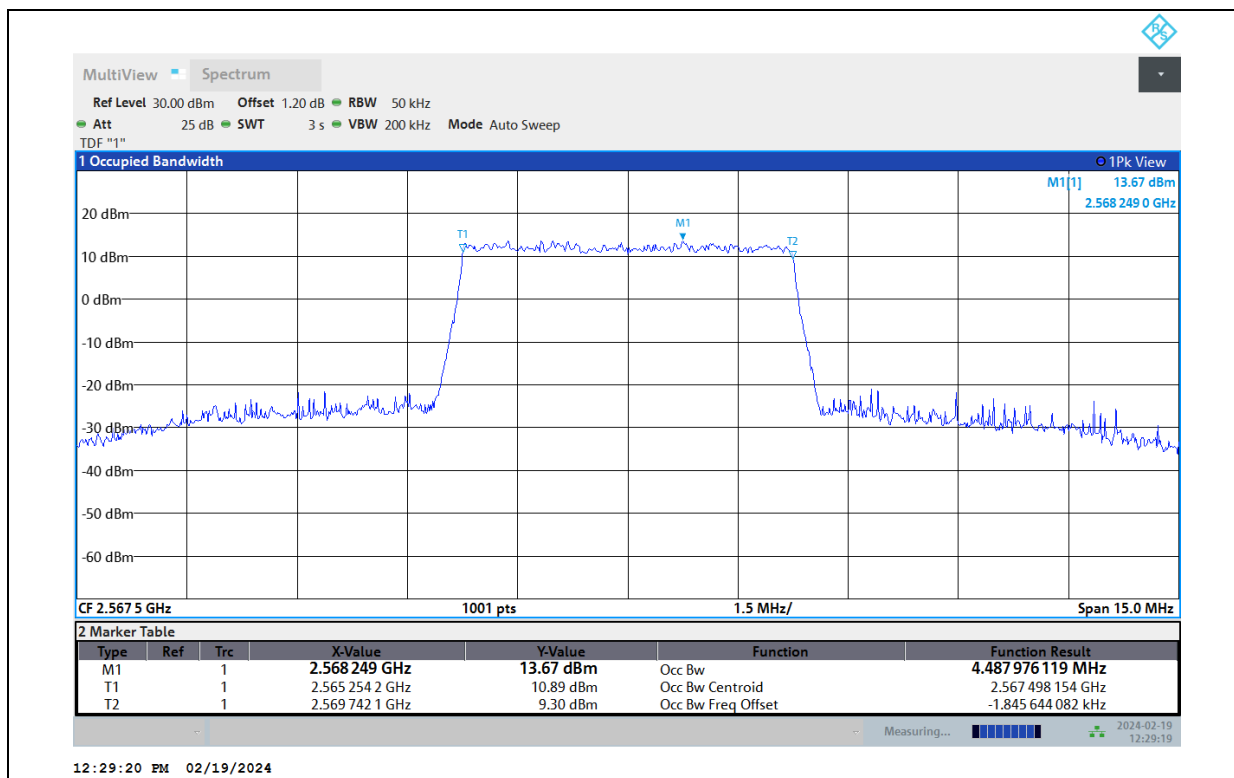
## 26DB BANDWIDTH AND OCCUPIED BANDWID Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 4.484                    | 4.88                 | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 4.475                    | 4.87                 | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 4.488                    | 4.90                 | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 4.488                    | 4.88                 | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 4.481                    | 4.93                 | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 4.478                    | 4.86                 | PASS    |
| Band7 | 5MHz      | 64QAM      | 20775   | 25RB#0           | 4.481                    | 4.92                 | PASS    |
| Band7 | 5MHz      | 64QAM      | 21100   | 25RB#0           | 4.477                    | 4.87                 | PASS    |
| Band7 | 5MHz      | 64QAM      | 21425   | 25RB#0           | 4.479                    | 4.87                 | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 8.960                    | 9.74                 | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 8.967                    | 9.65                 | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | 8.951                    | 9.74                 | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | 8.967                    | 9.62                 | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | 8.951                    | 9.62                 | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | 8.954                    | 9.65                 | PASS    |
| Band7 | 10MHz     | 64QAM      | 20800   | 50RB#0           | 8.956                    | 9.65                 | PASS    |
| Band7 | 10MHz     | 64QAM      | 21100   | 50RB#0           | 8.950                    | 9.59                 | PASS    |
| Band7 | 10MHz     | 64QAM      | 21400   | 50RB#0           | 8.941                    | 9.68                 | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | 13.460                   | 14.74                | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | 13.483                   | 14.56                | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | 13.414                   | 14.61                | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | 13.479                   | 14.61                | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | 13.457                   | 14.56                | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | 13.439                   | 14.61                | PASS    |
| Band7 | 15MHz     | 64QAM      | 20825   | 75RB#0           | 13.501                   | 14.56                | PASS    |
| Band7 | 15MHz     | 64QAM      | 21100   | 75RB#0           | 13.426                   | 14.61                | PASS    |
| Band7 | 15MHz     | 64QAM      | 21375   | 75RB#0           | 13.434                   | 14.48                | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 17.955                   | 19.12                | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 17.922                   | 19.12                | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 17.860                   | 19.06                | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 17.921                   | 19.24                | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 17.917                   | 19.30                | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 17.883                   | 19.24                | PASS    |
| Band7 | 20MHz     | 64QAM      | 20850   | 100RB#0          | 17.908                   | 19.30                | PASS    |
| Band7 | 20MHz     | 64QAM      | 21100   | 100RB#0          | 17.890                   | 19.24                | PASS    |
| Band7 | 20MHz     | 64QAM      | 21350   | 100RB#0          | 17.890                   | 19.00                | PASS    |

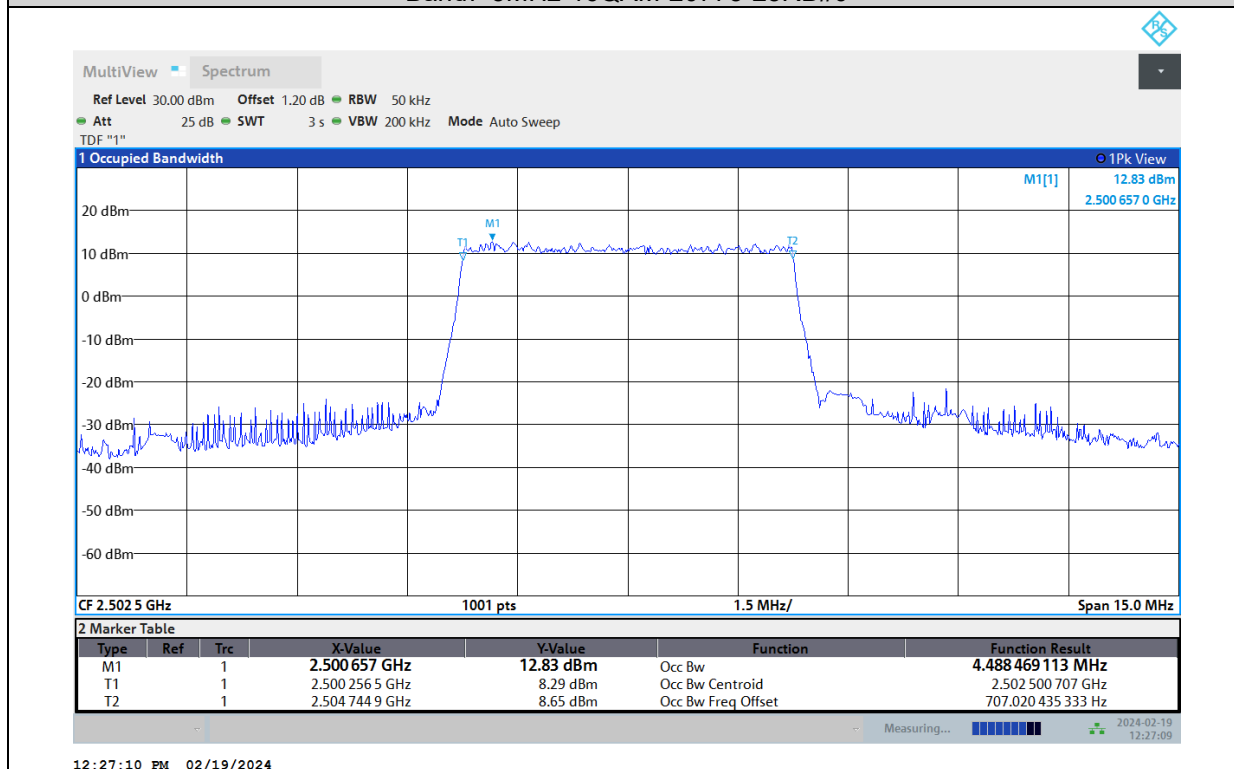
## Test Graphs

### Occupied Bandwidth

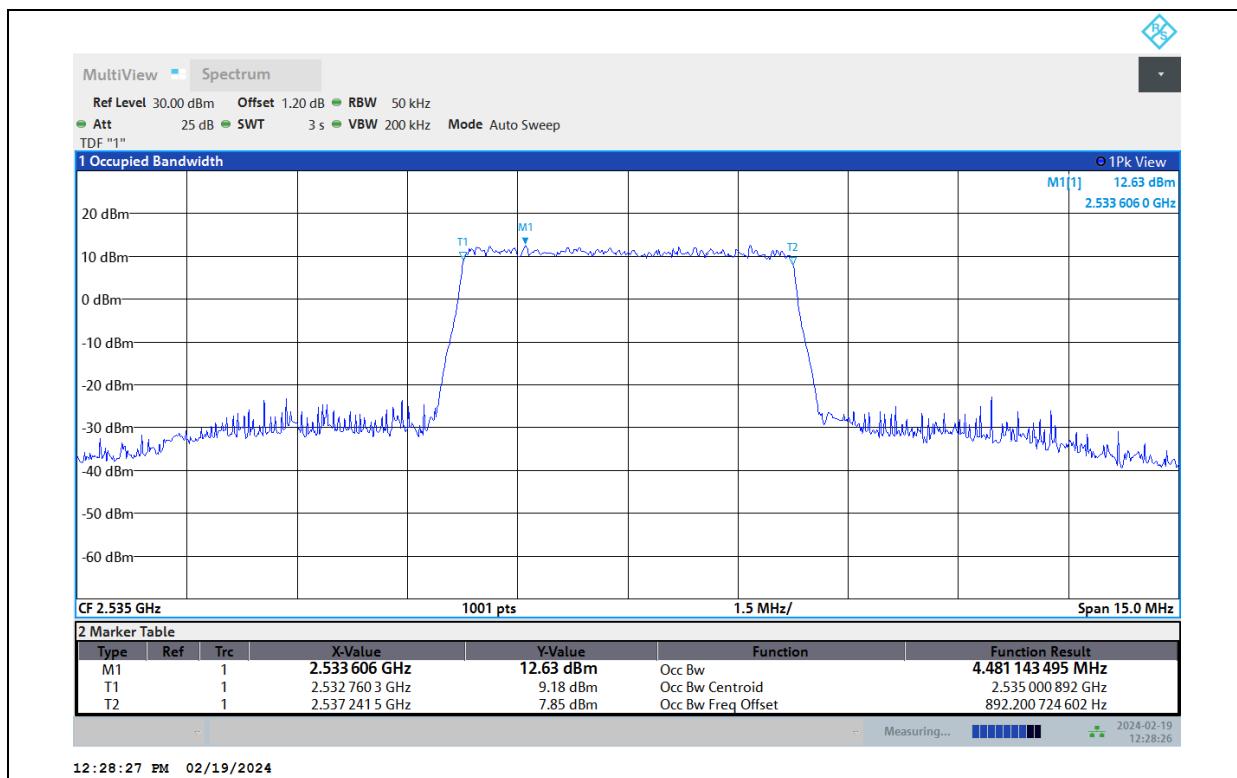




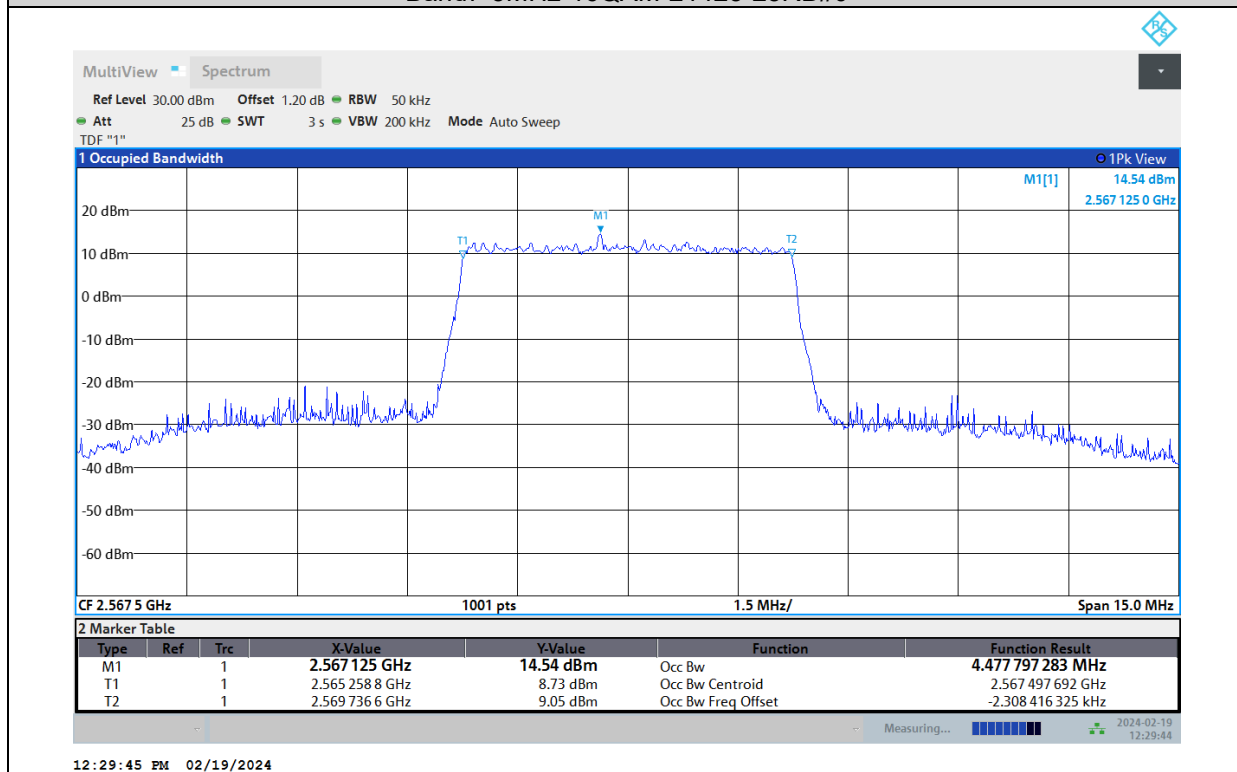
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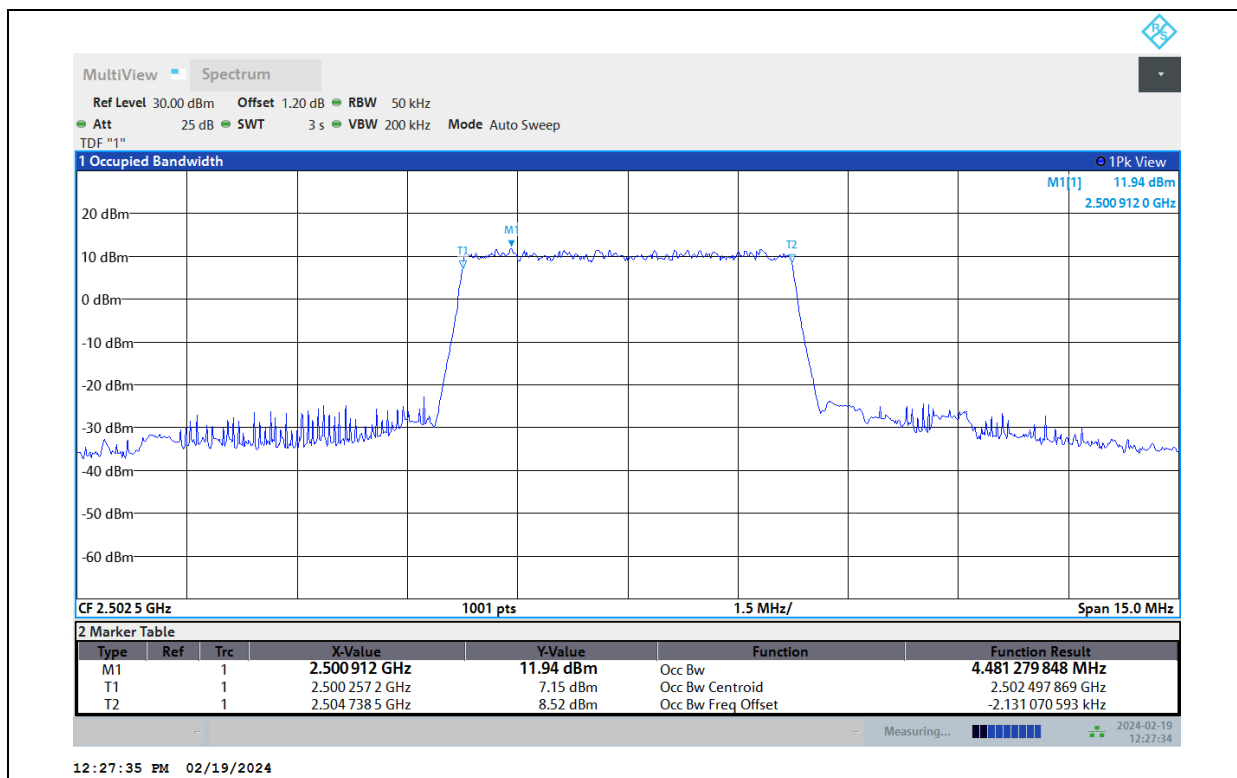
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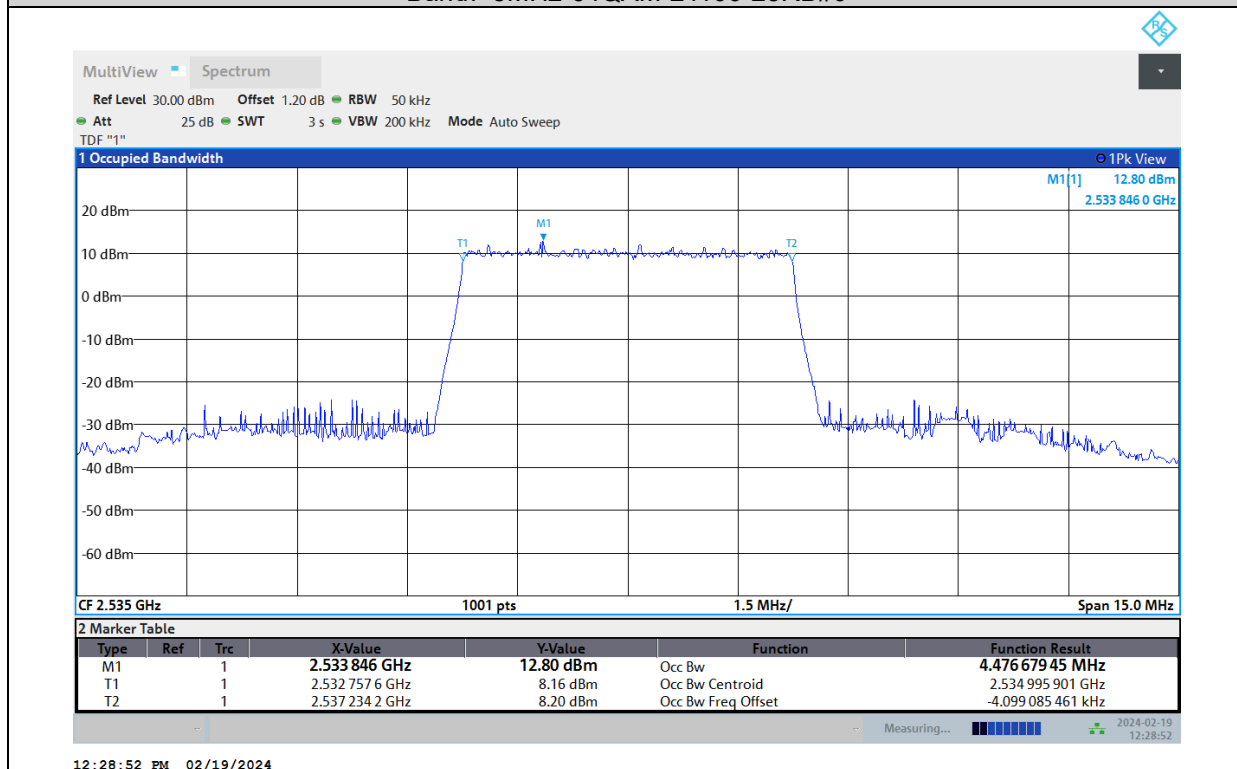
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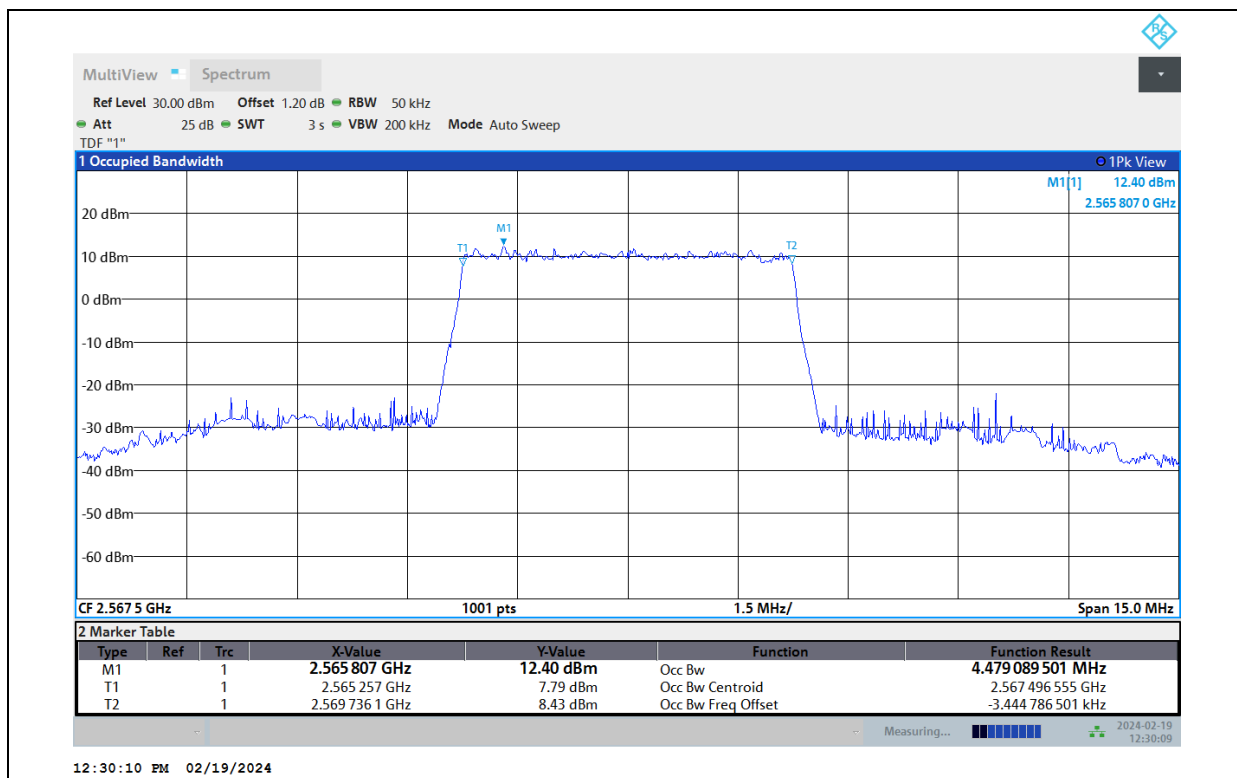
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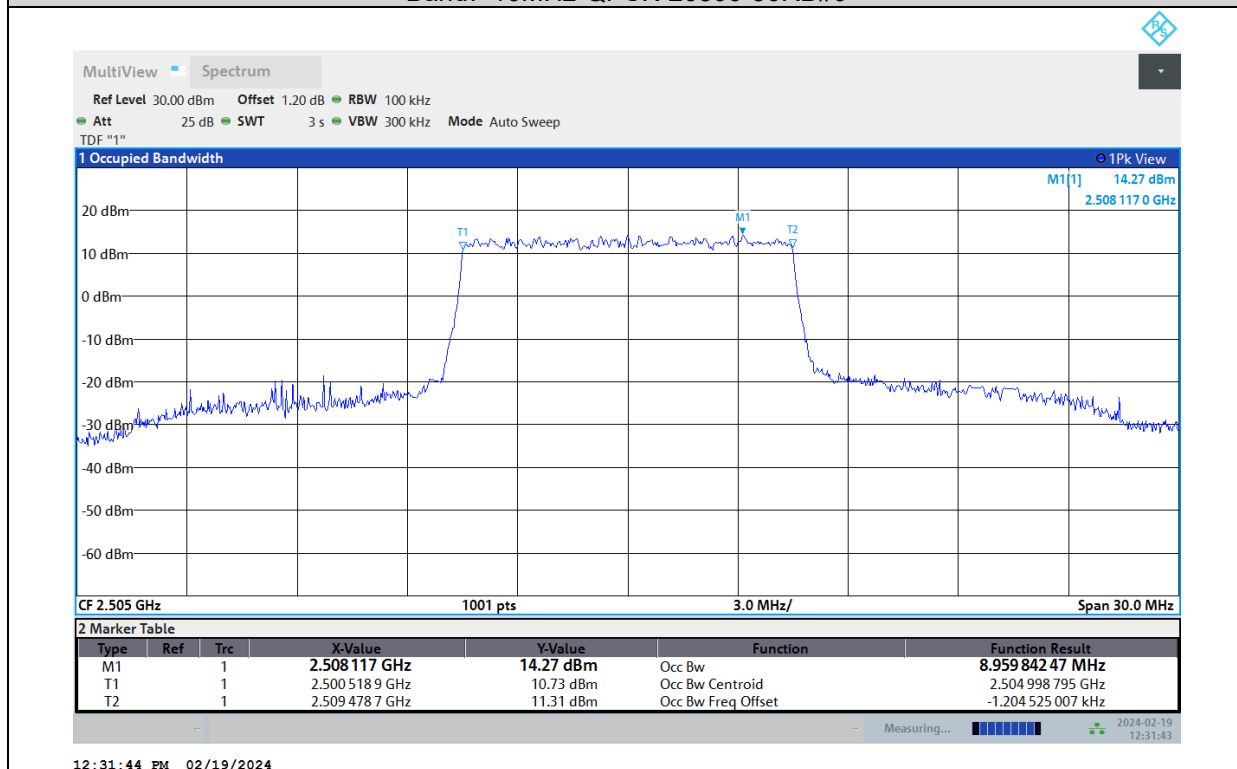
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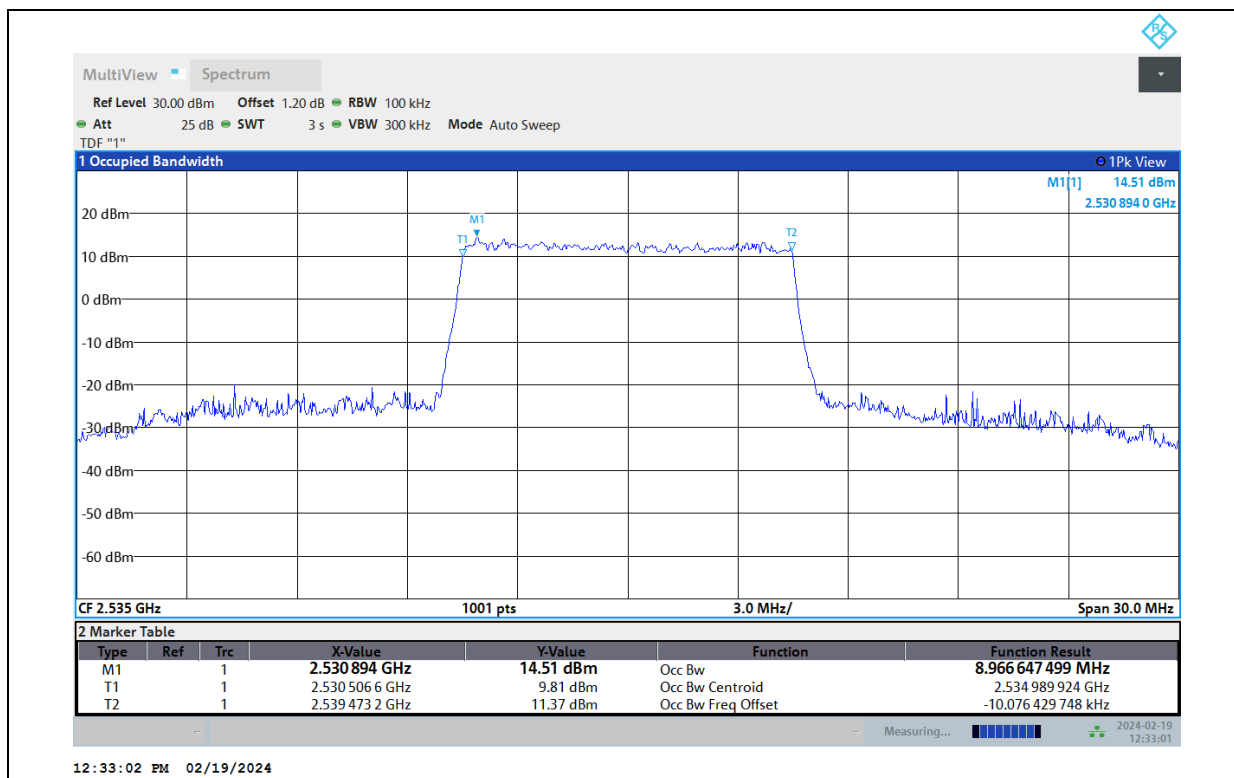
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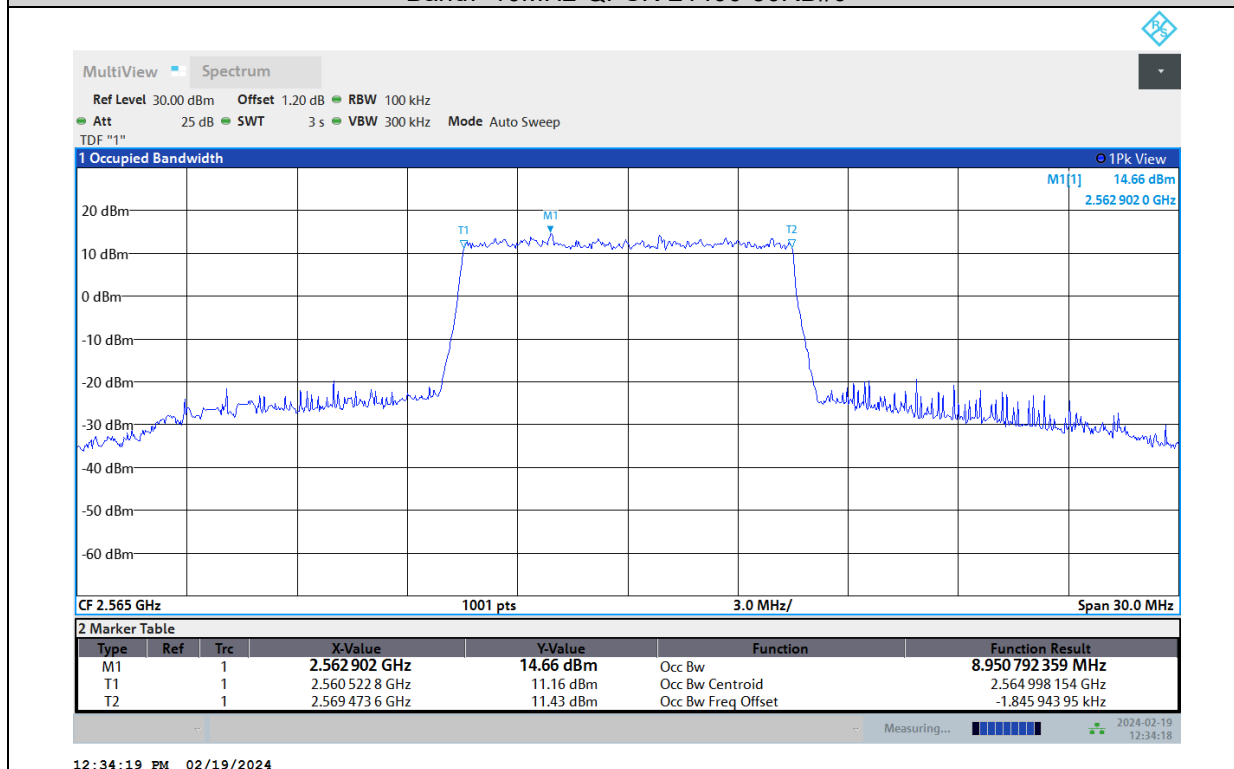
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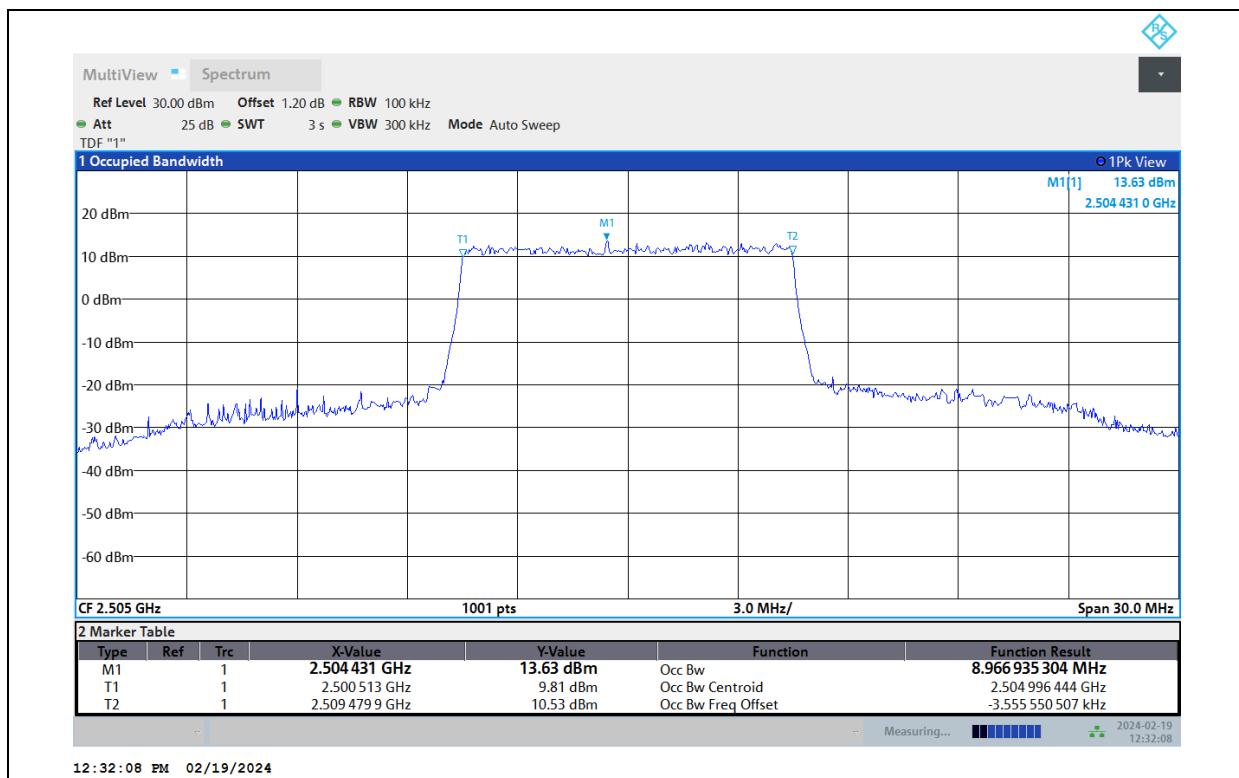
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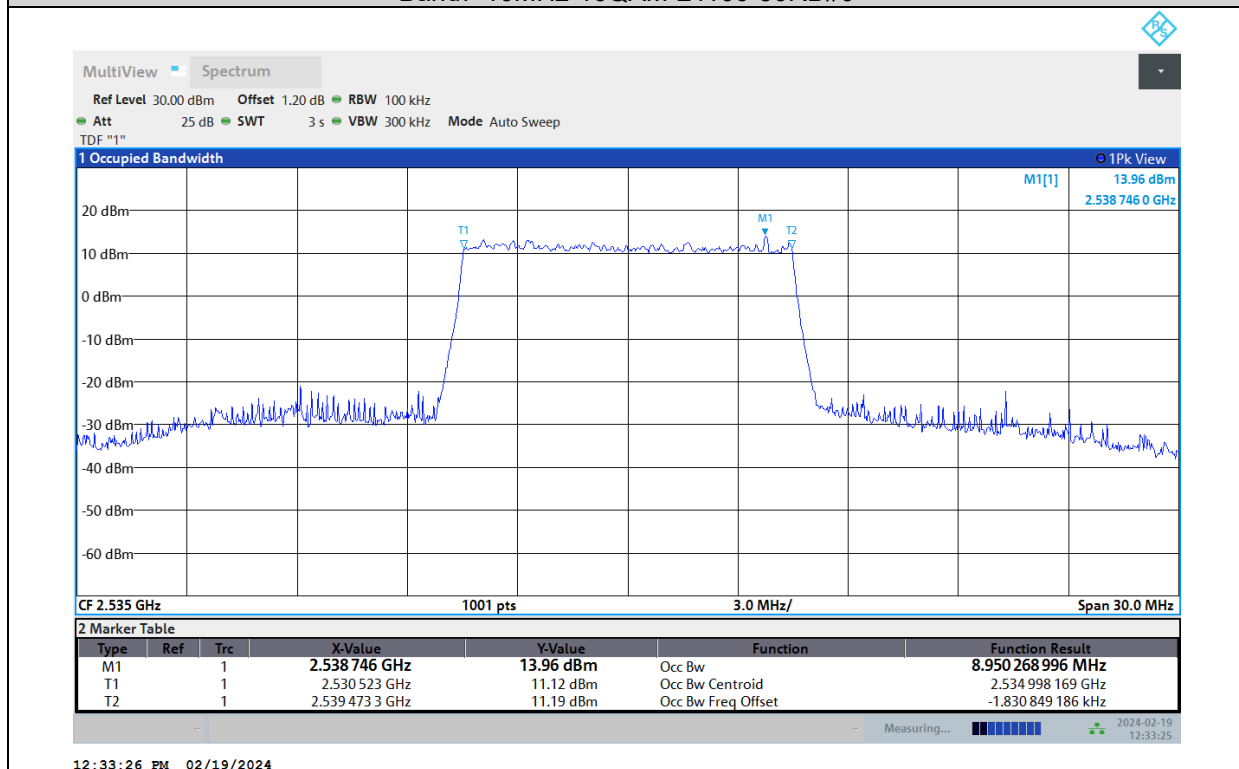
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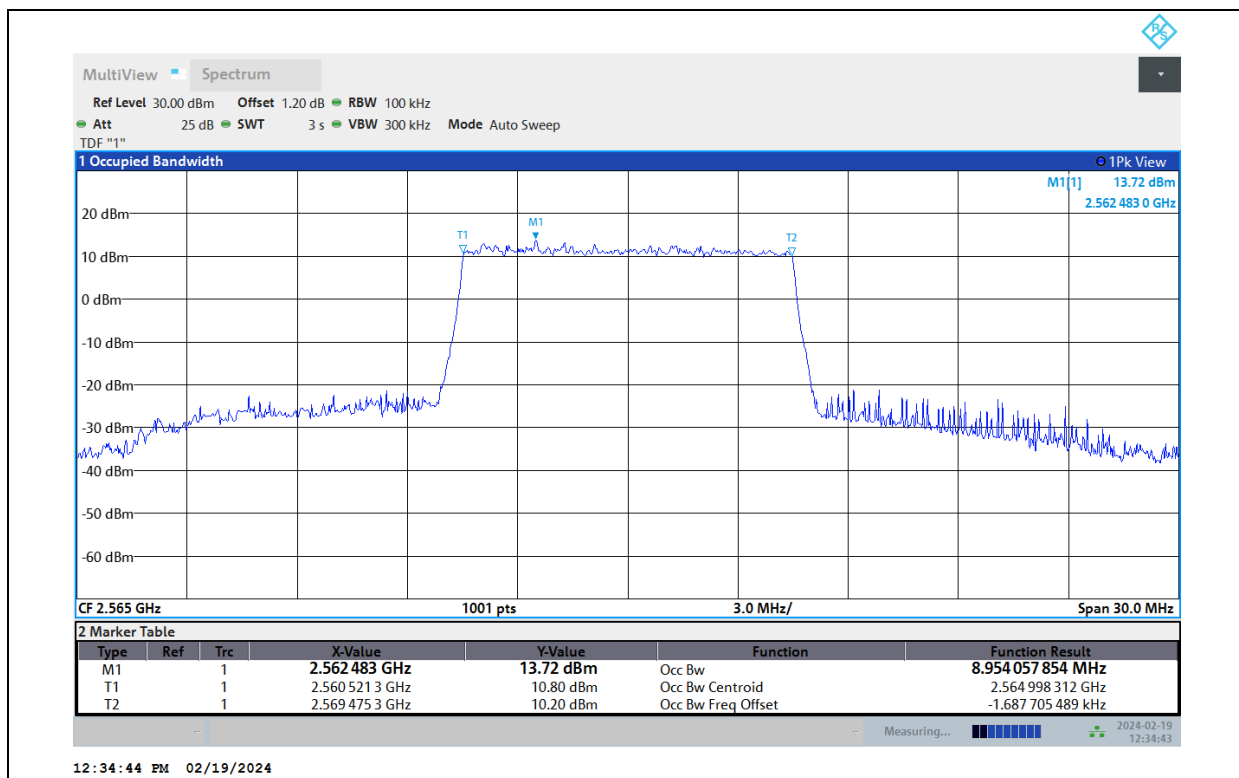
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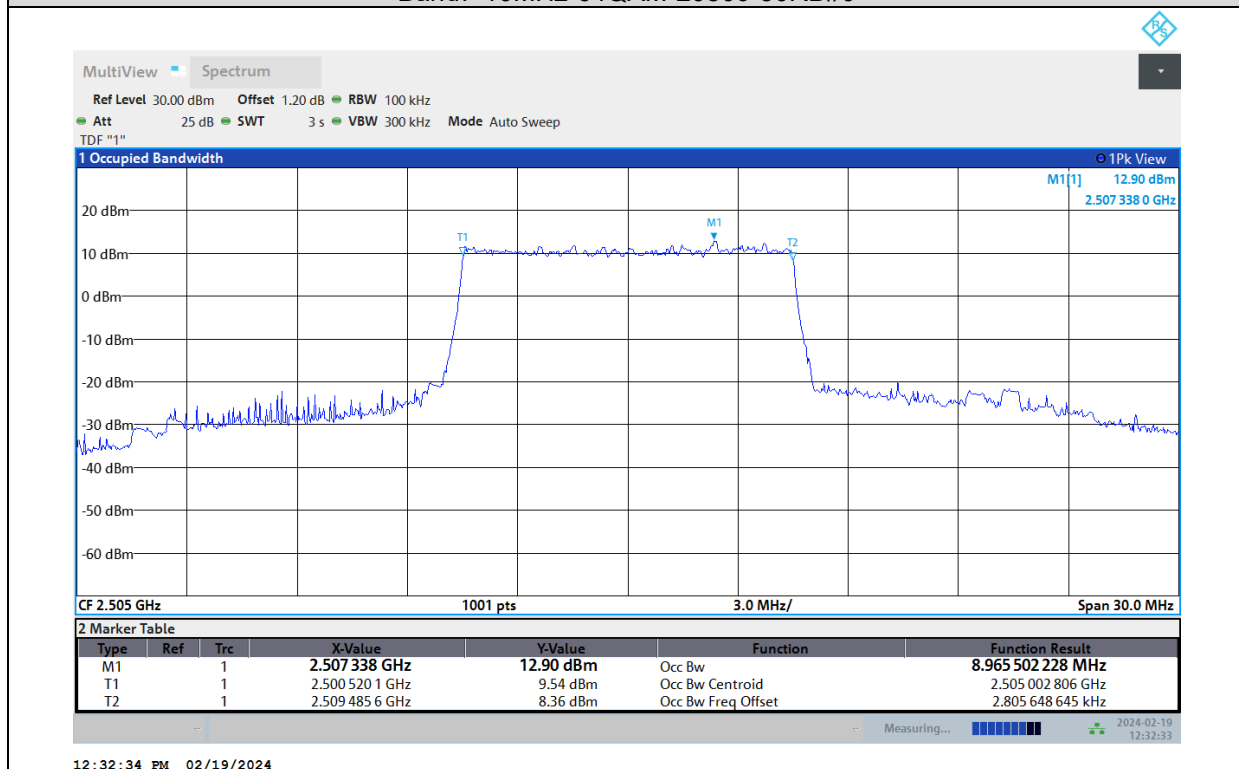
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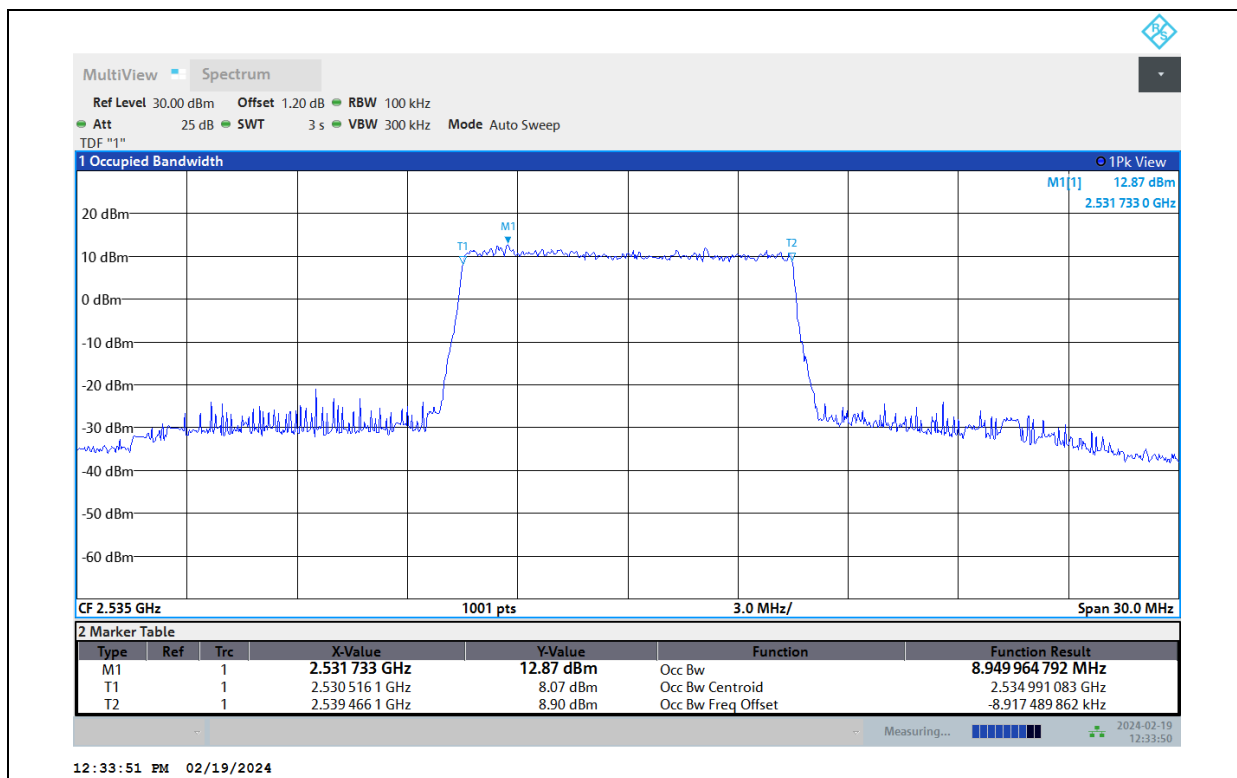
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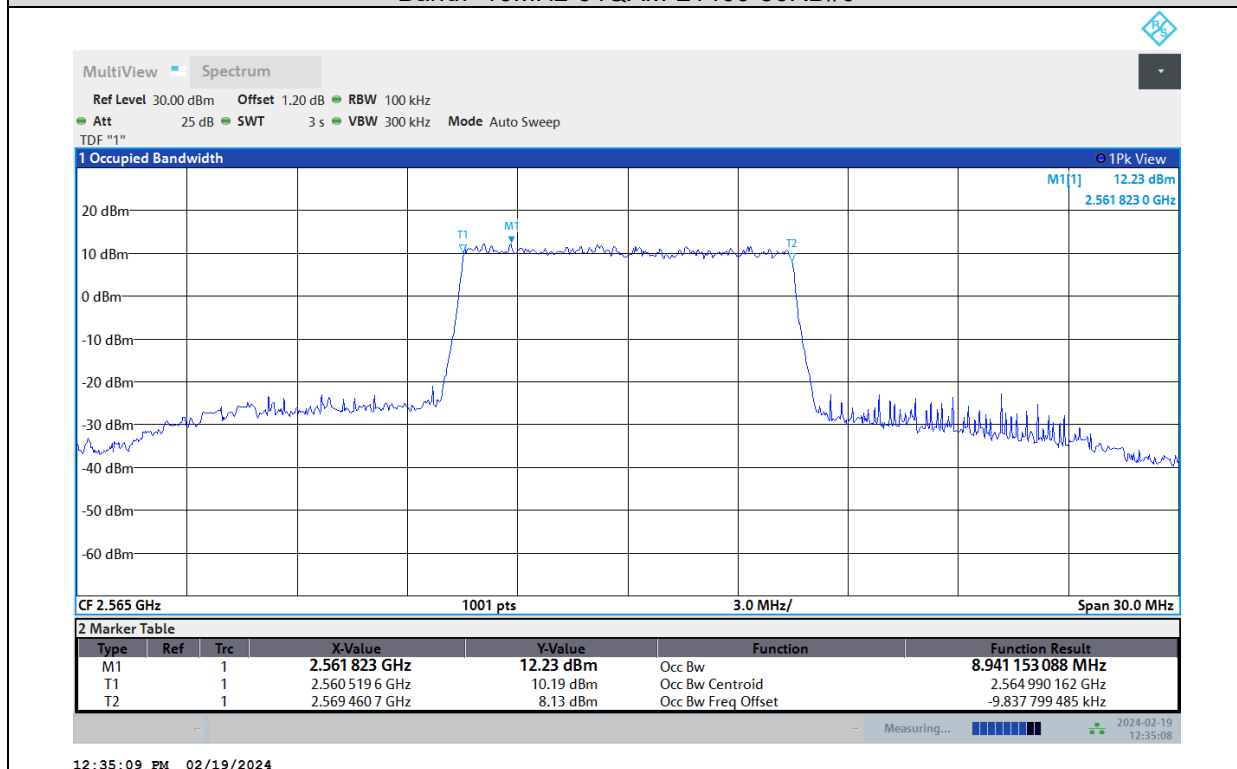
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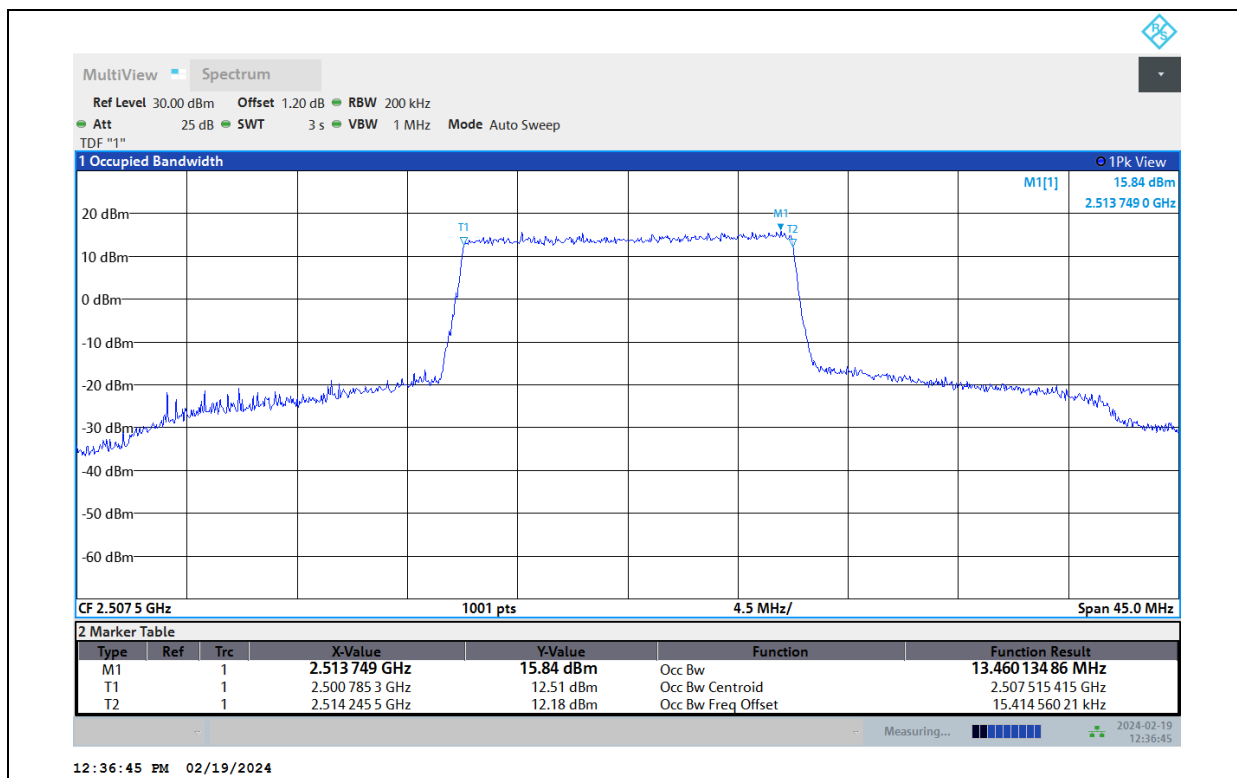
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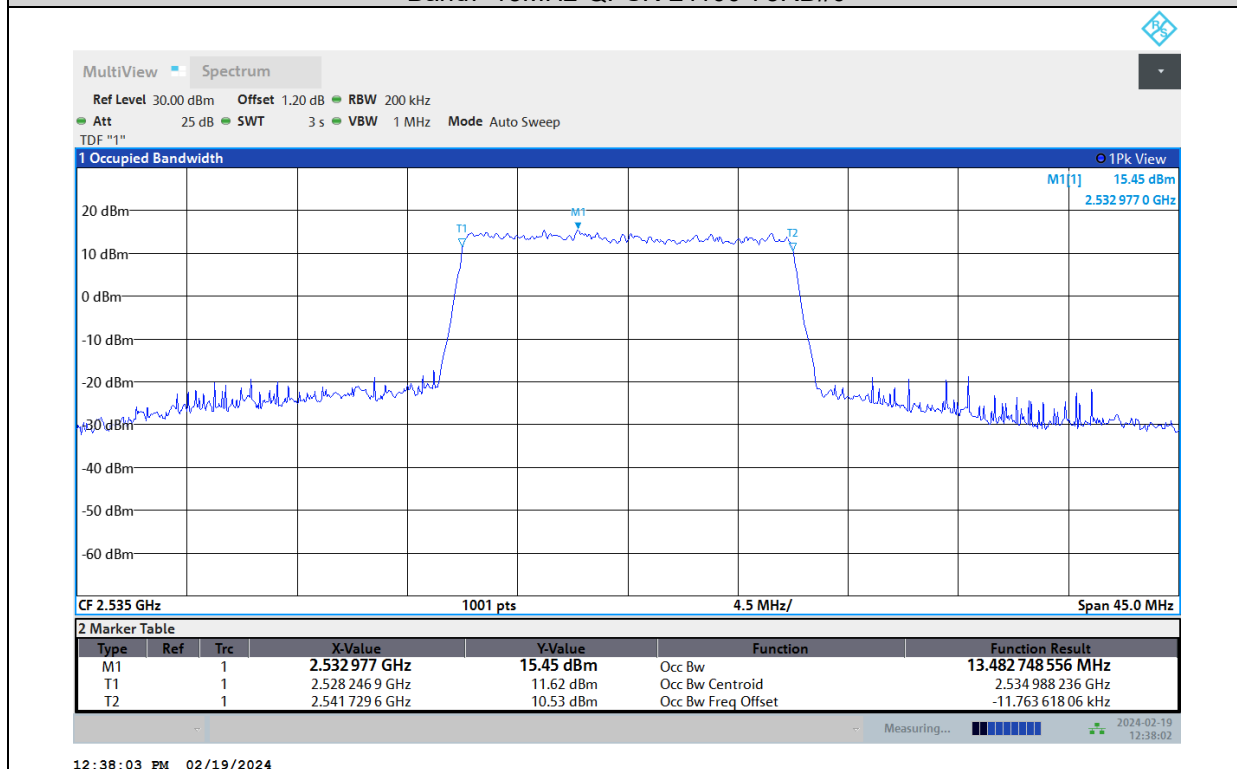
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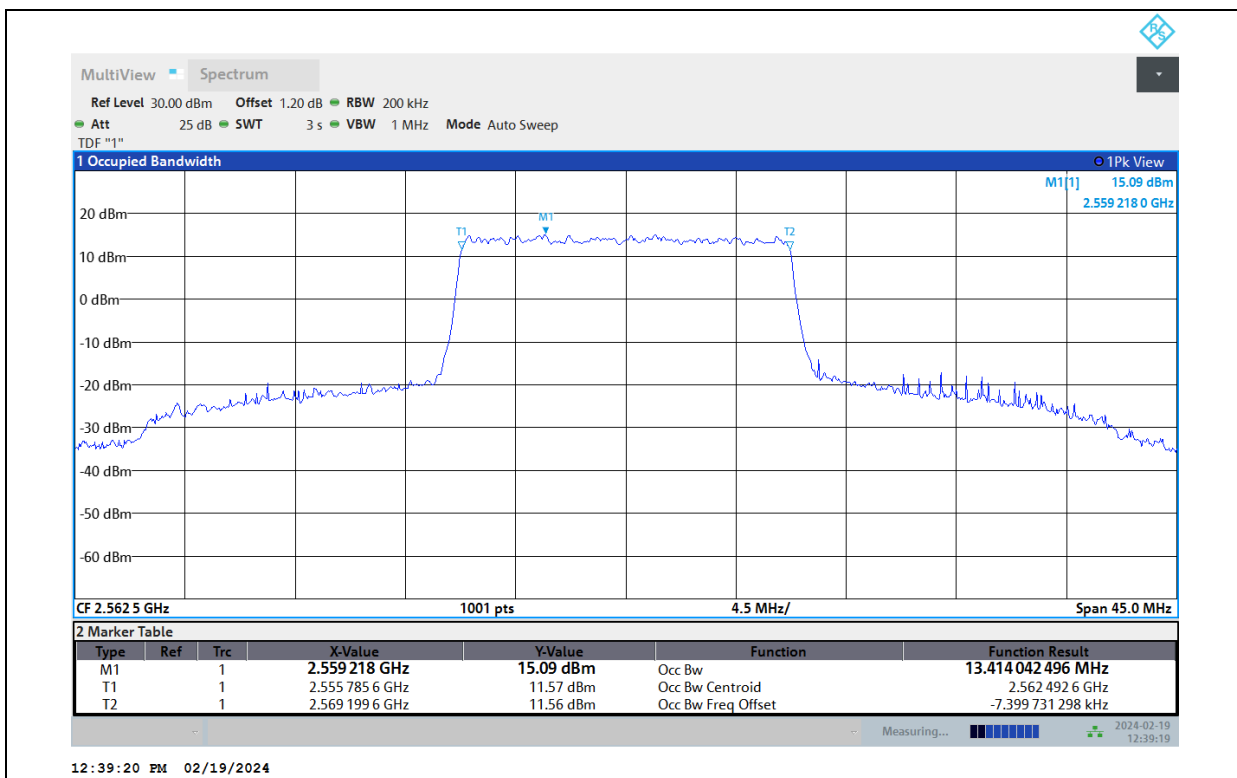
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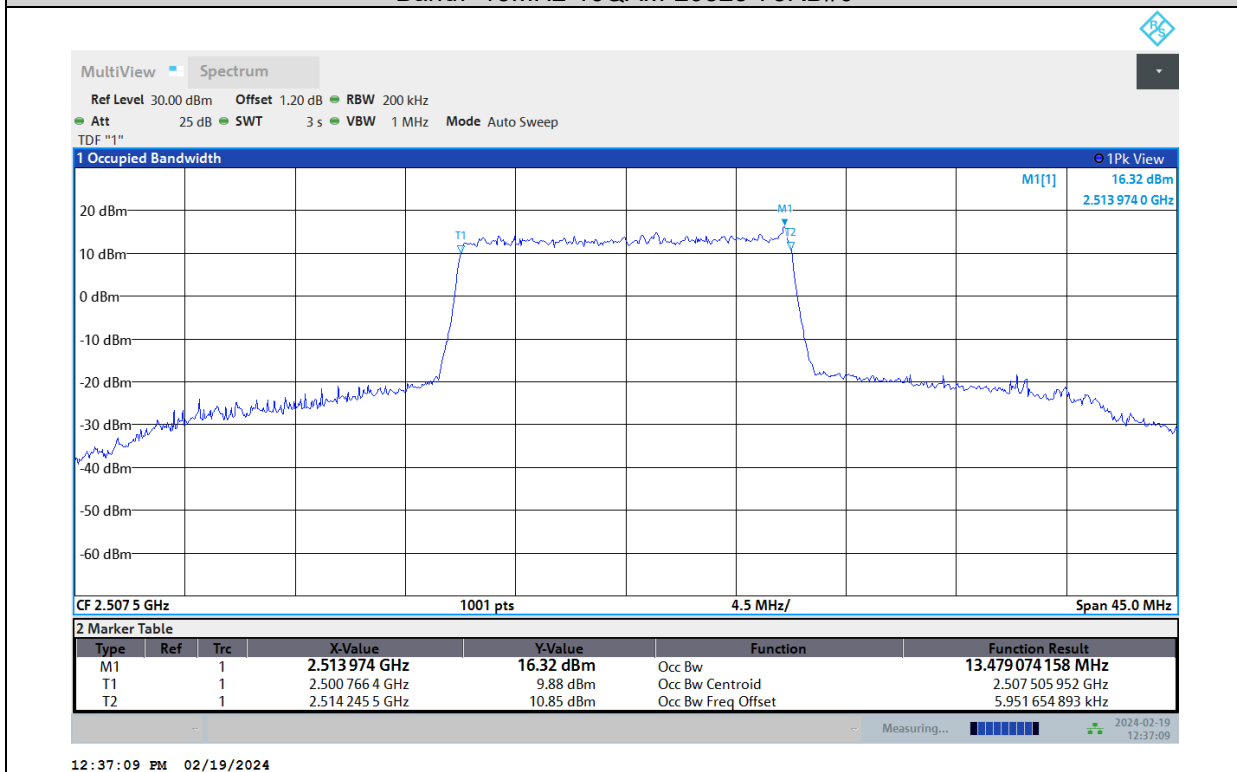
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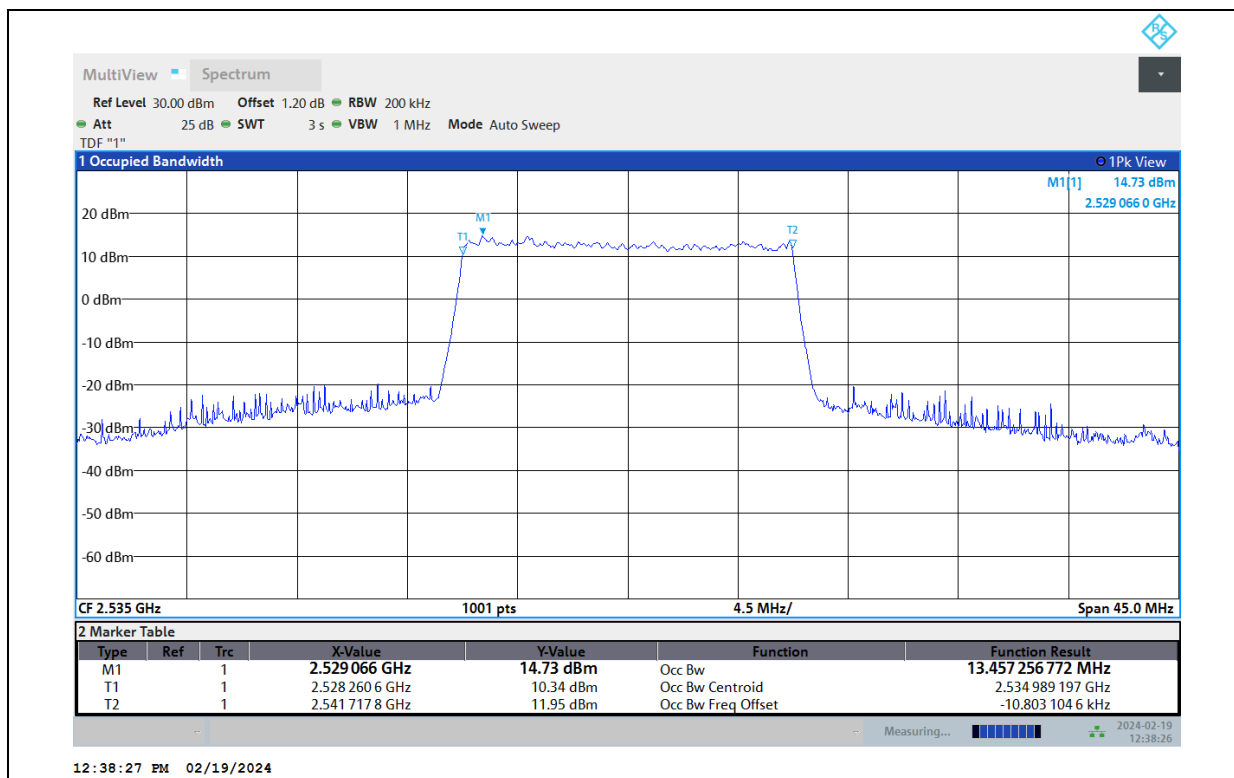
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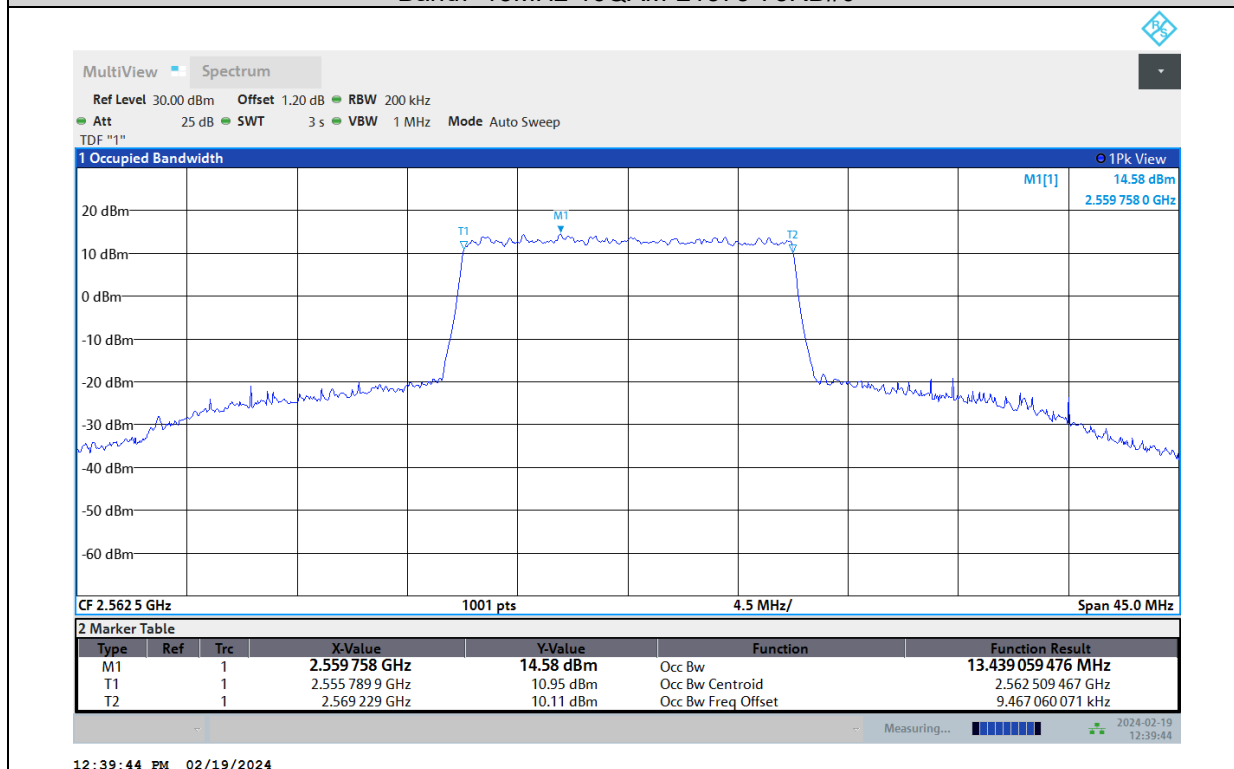
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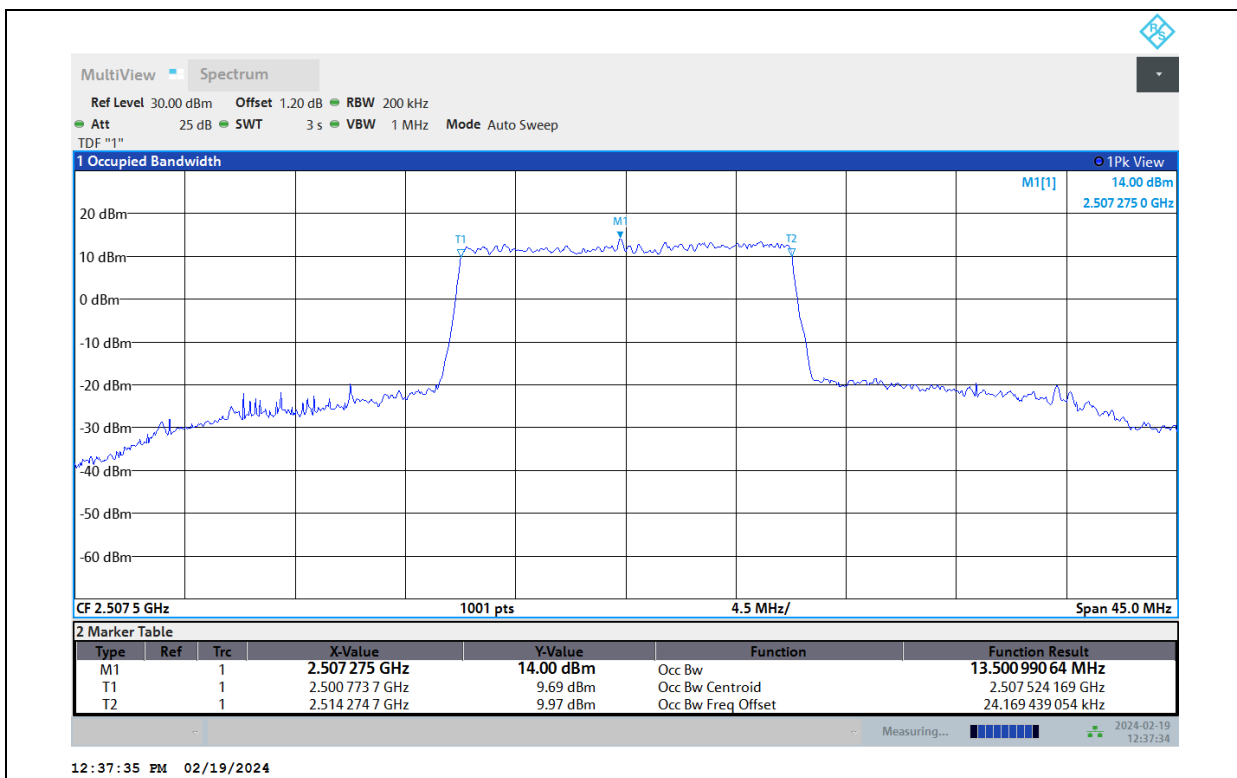
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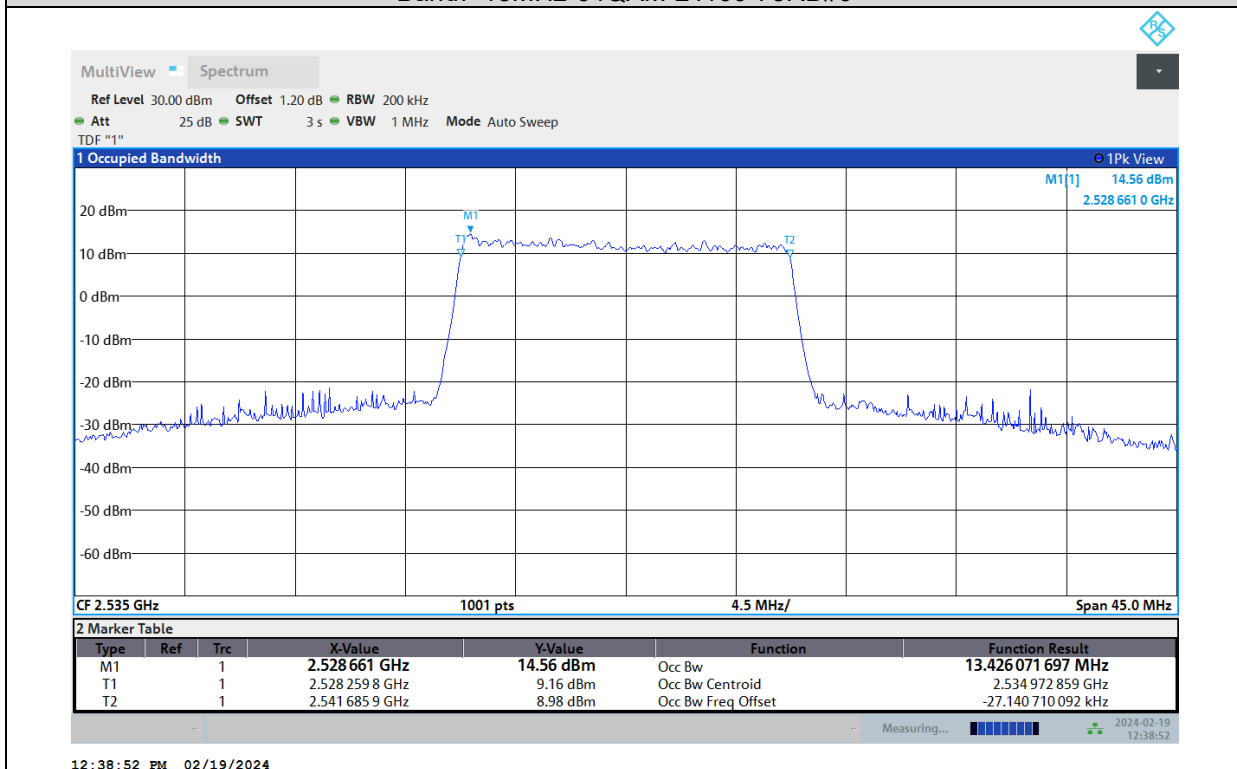
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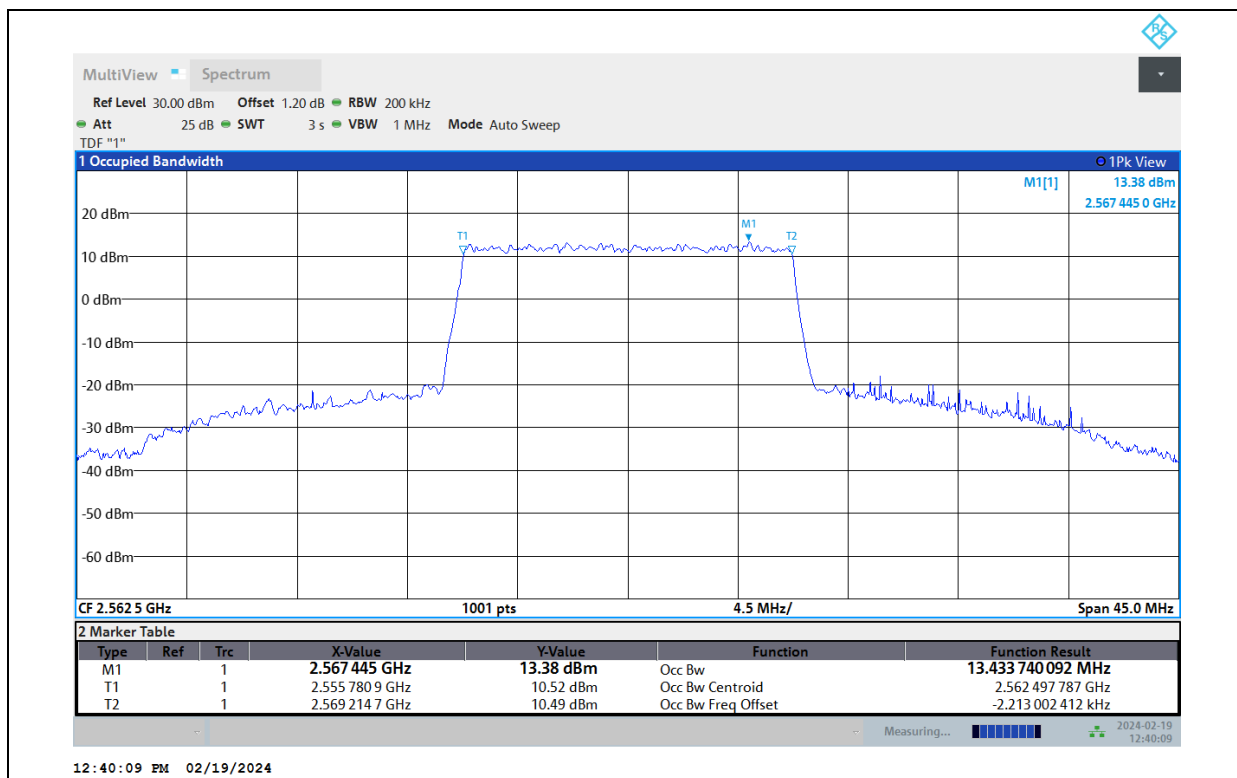
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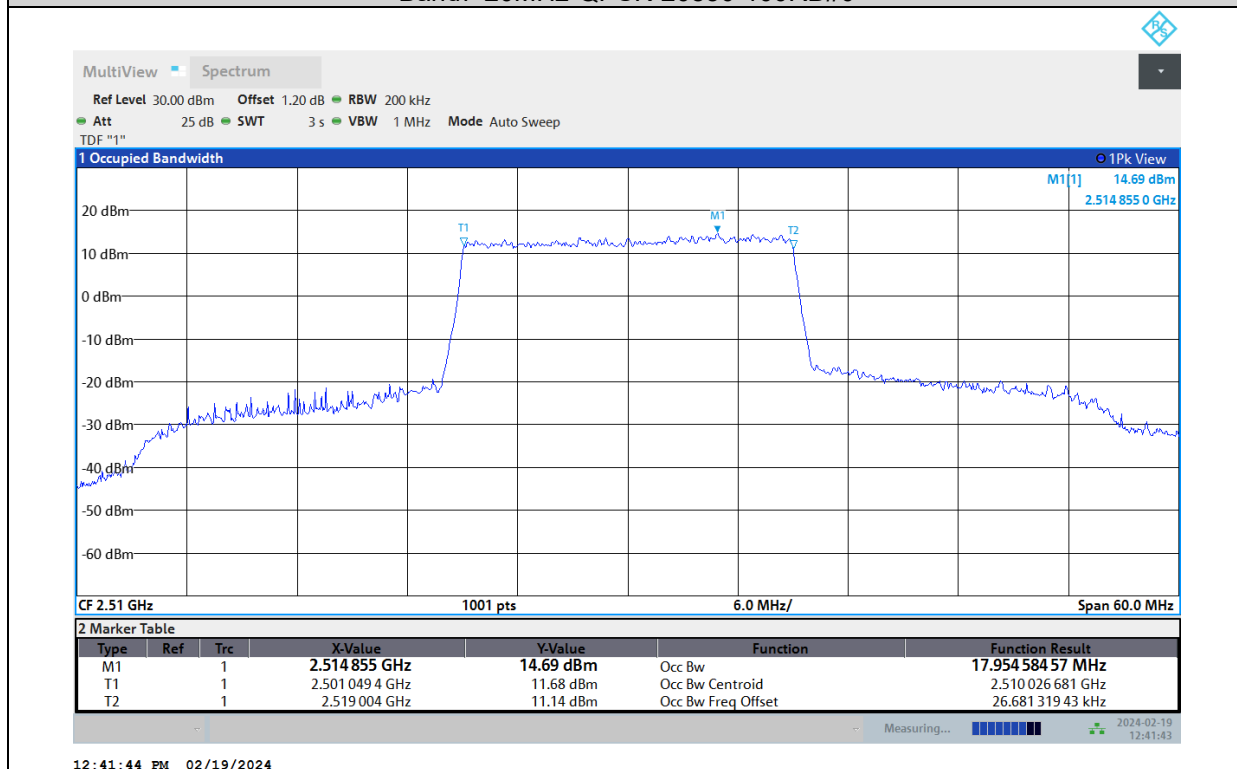
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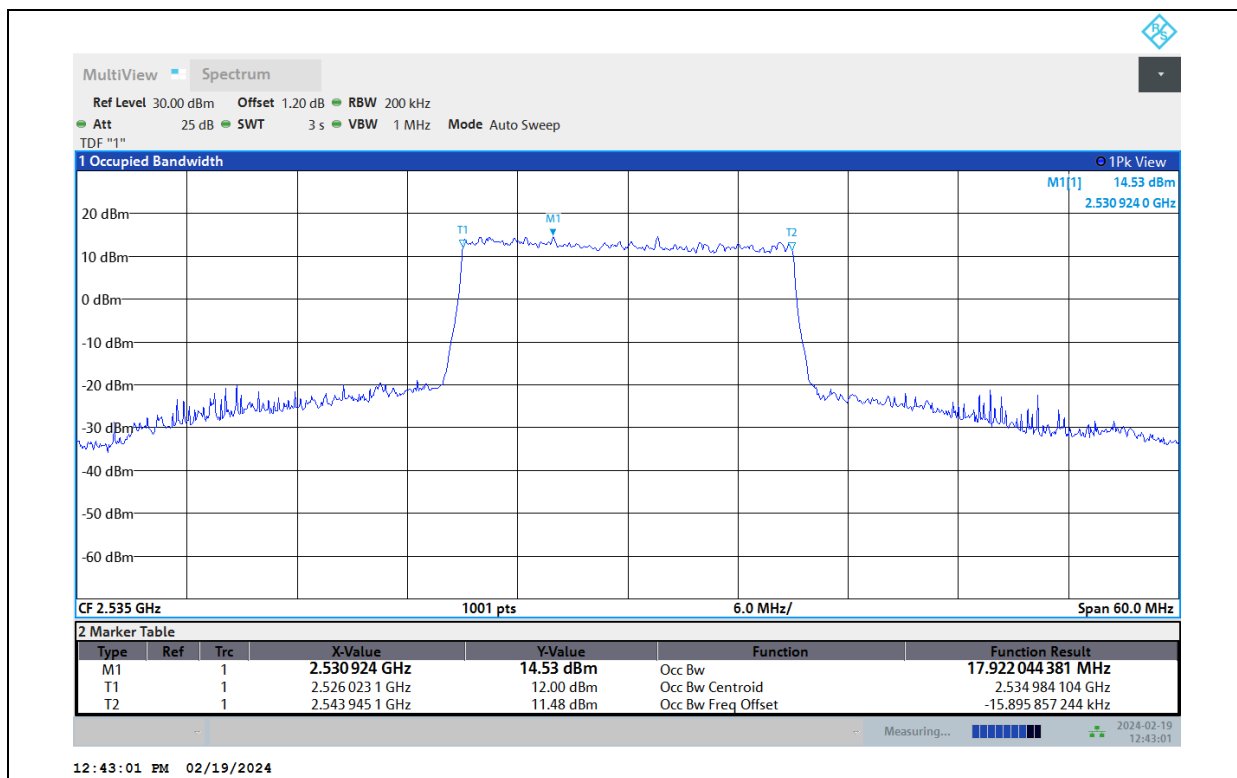
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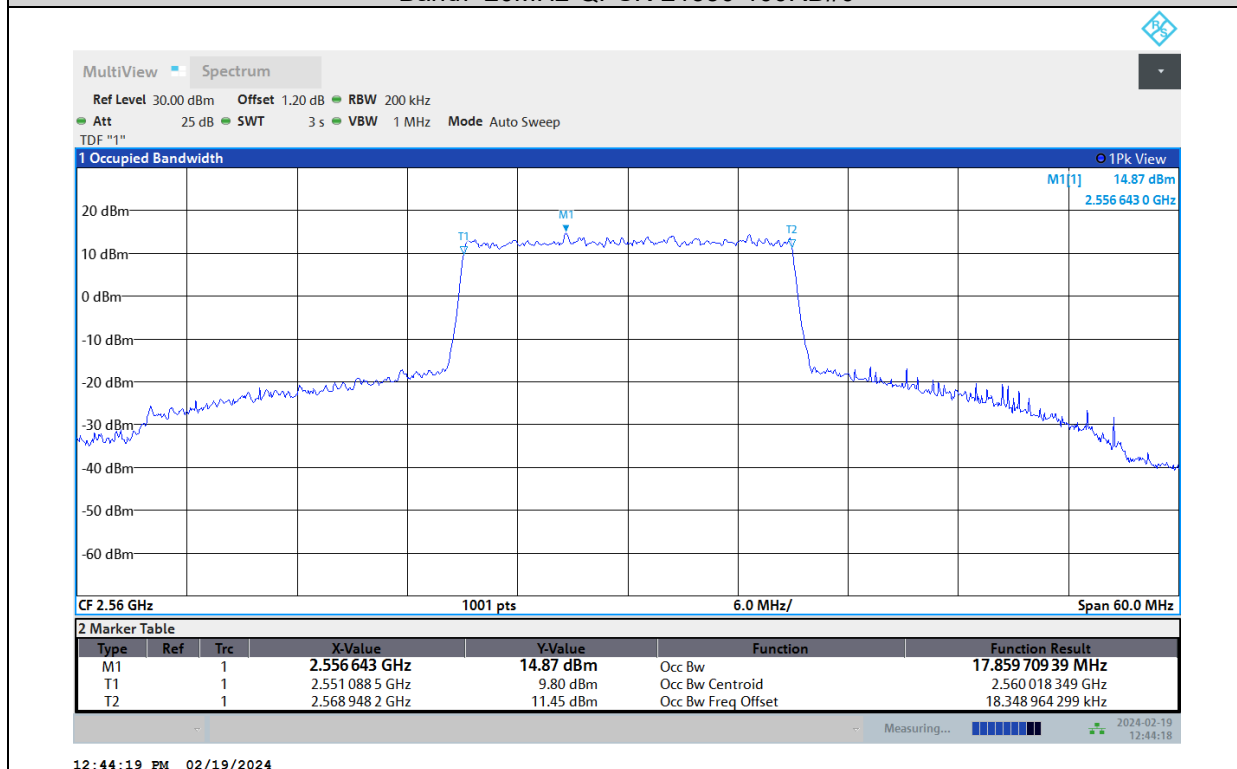
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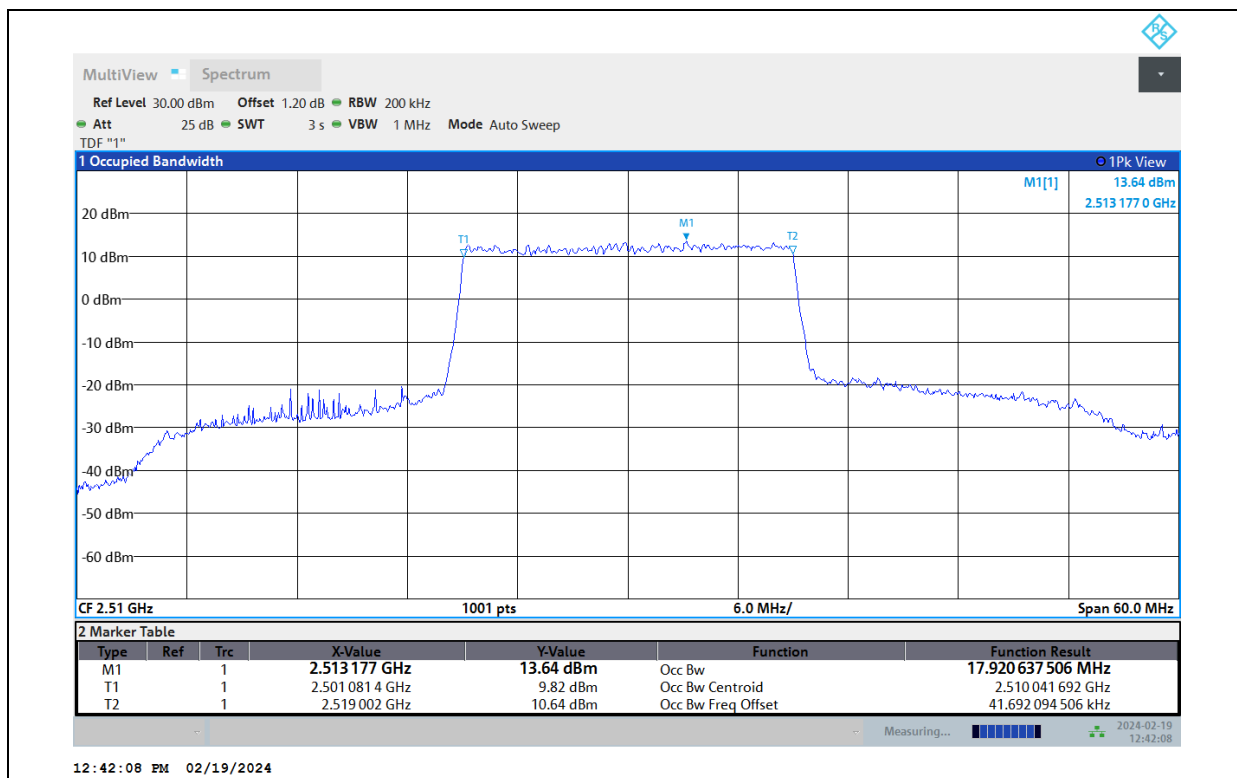
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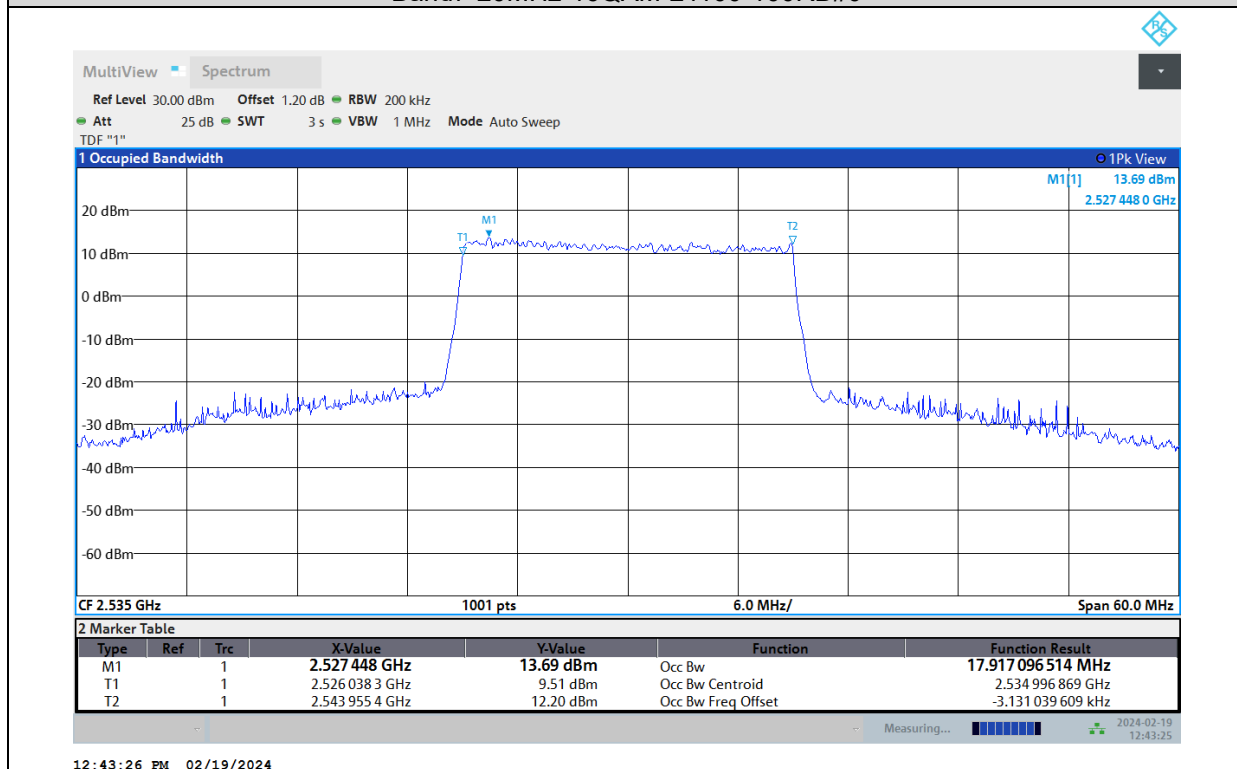
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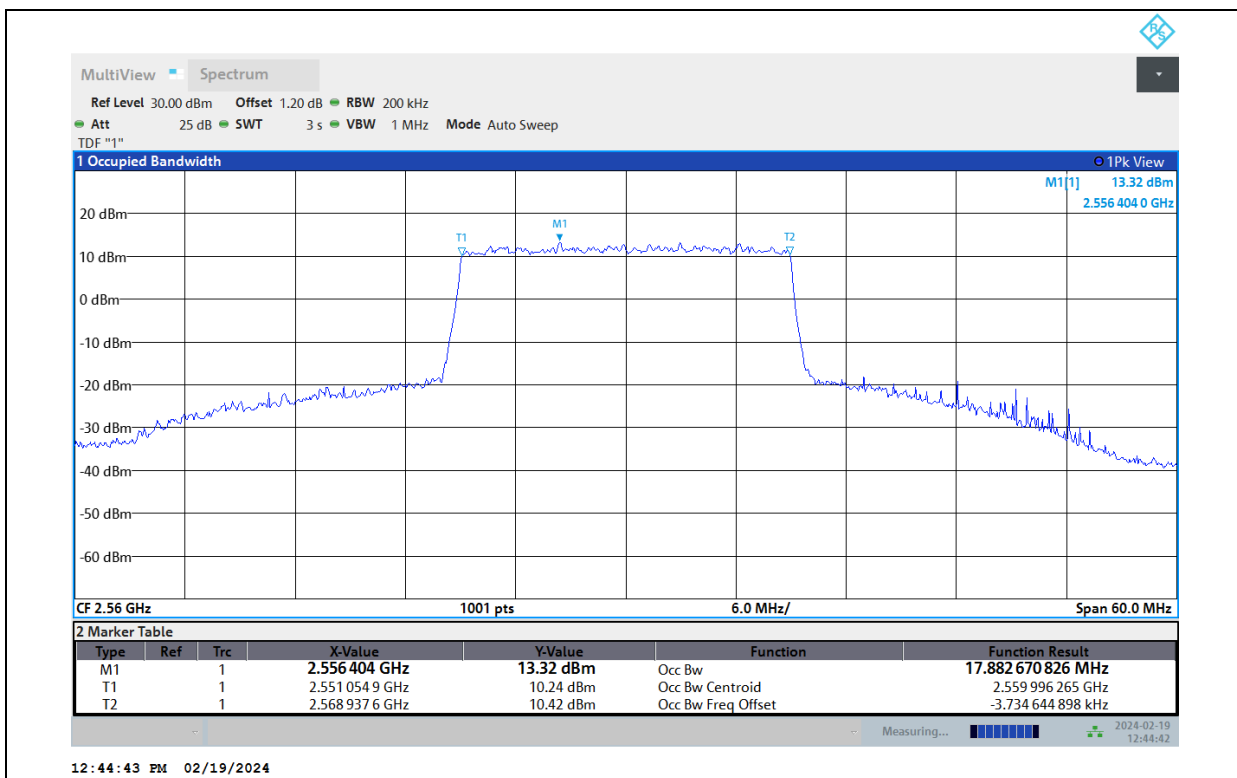
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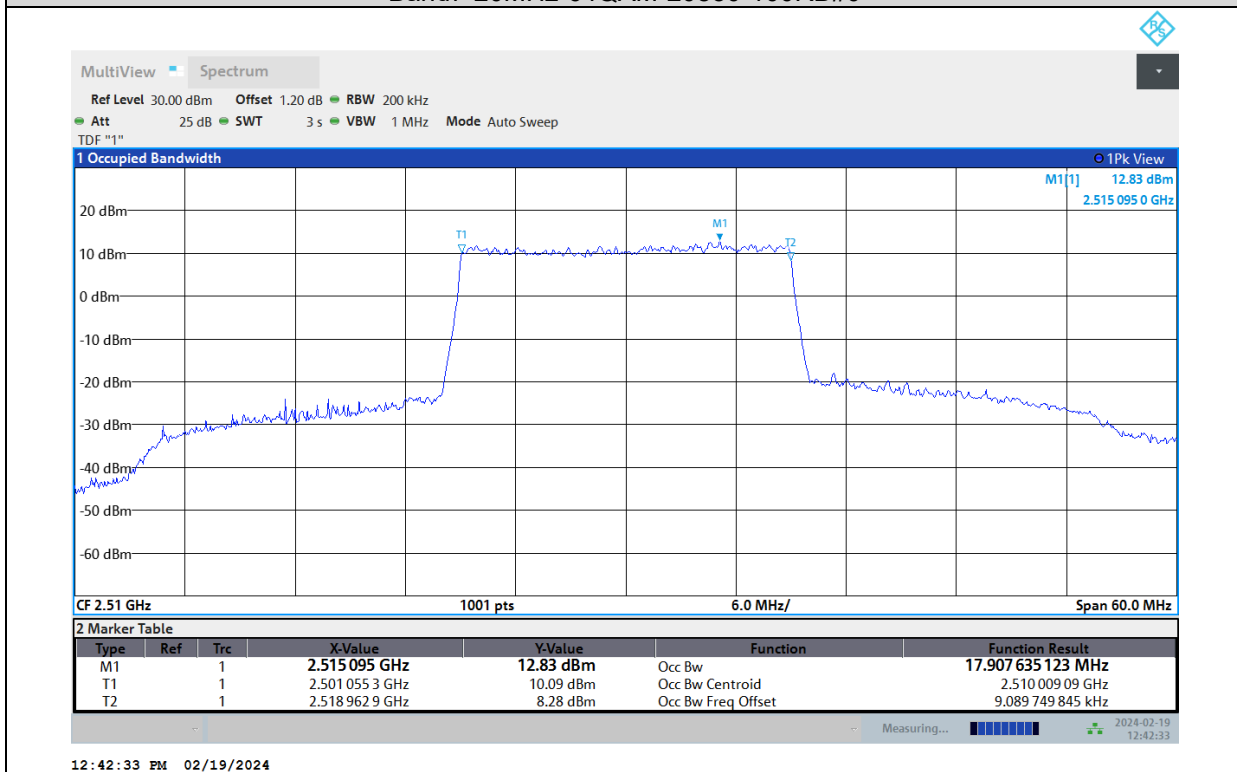
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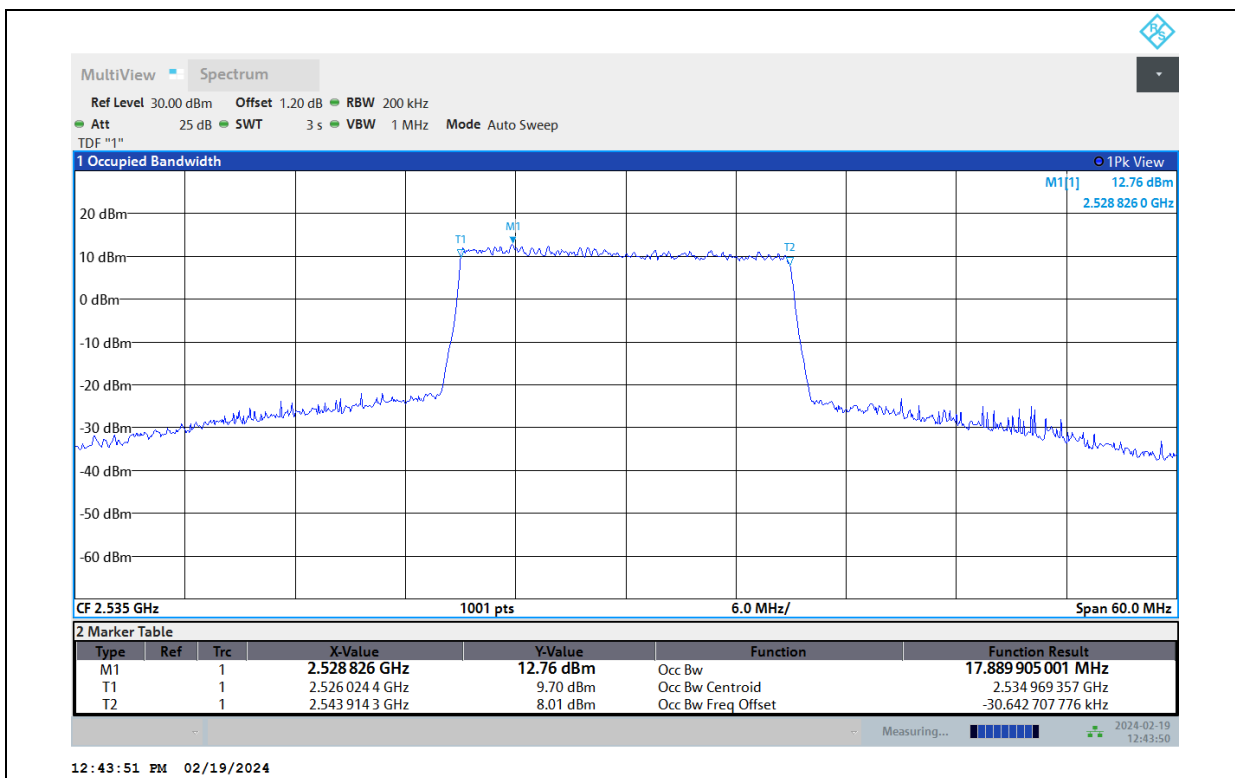
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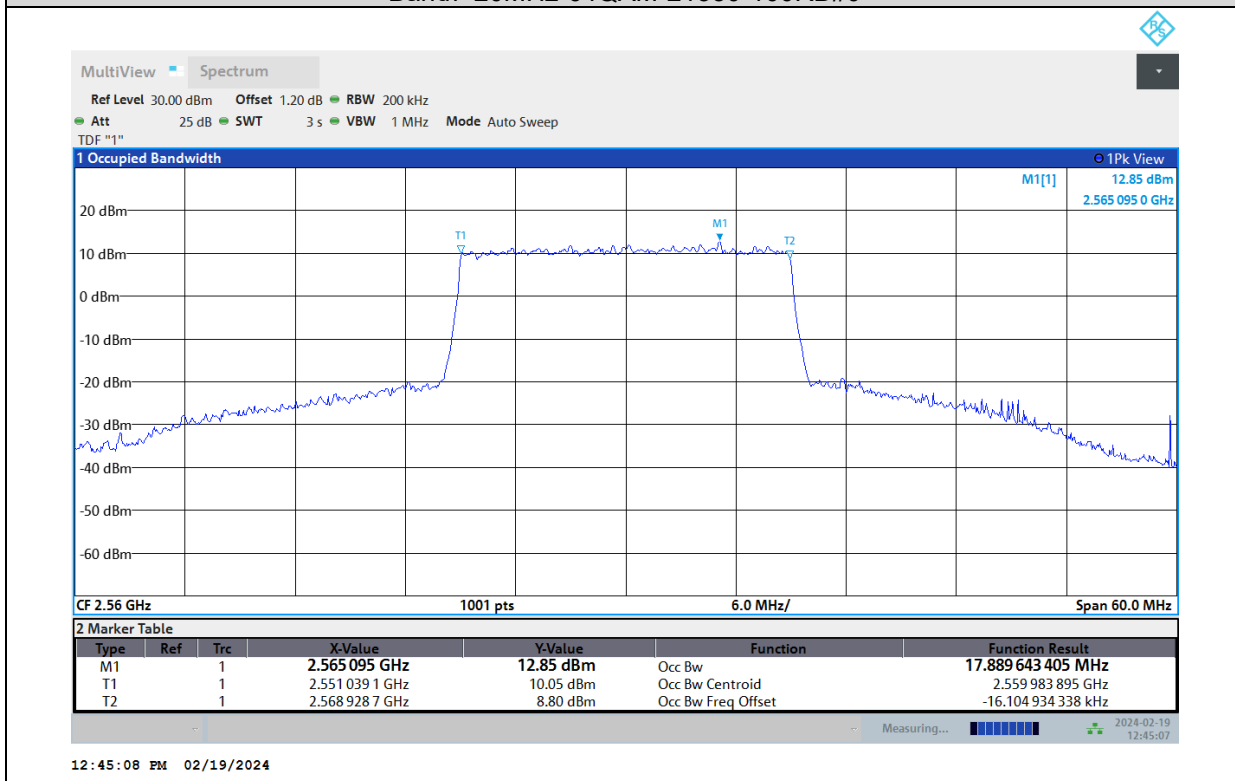
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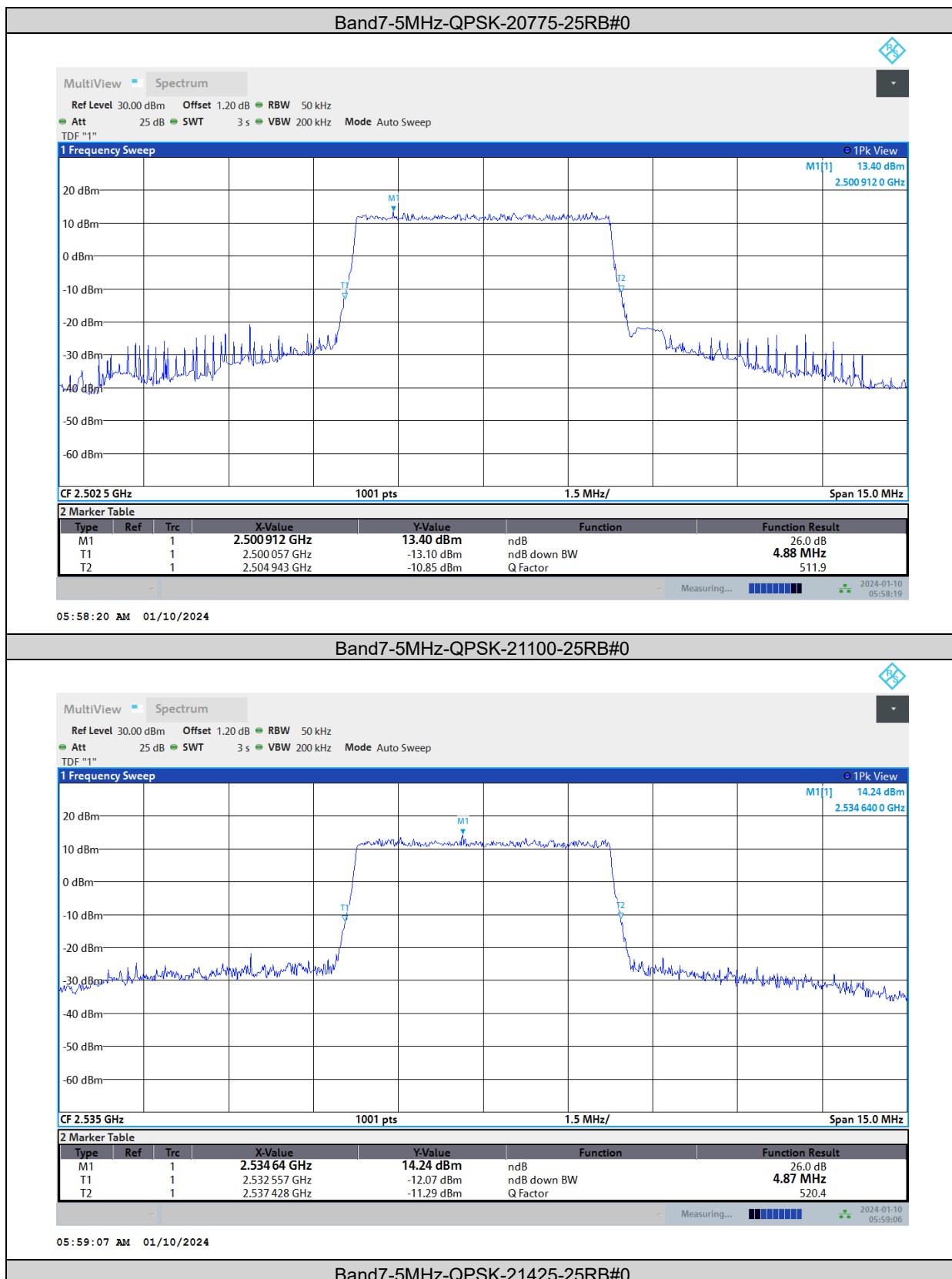
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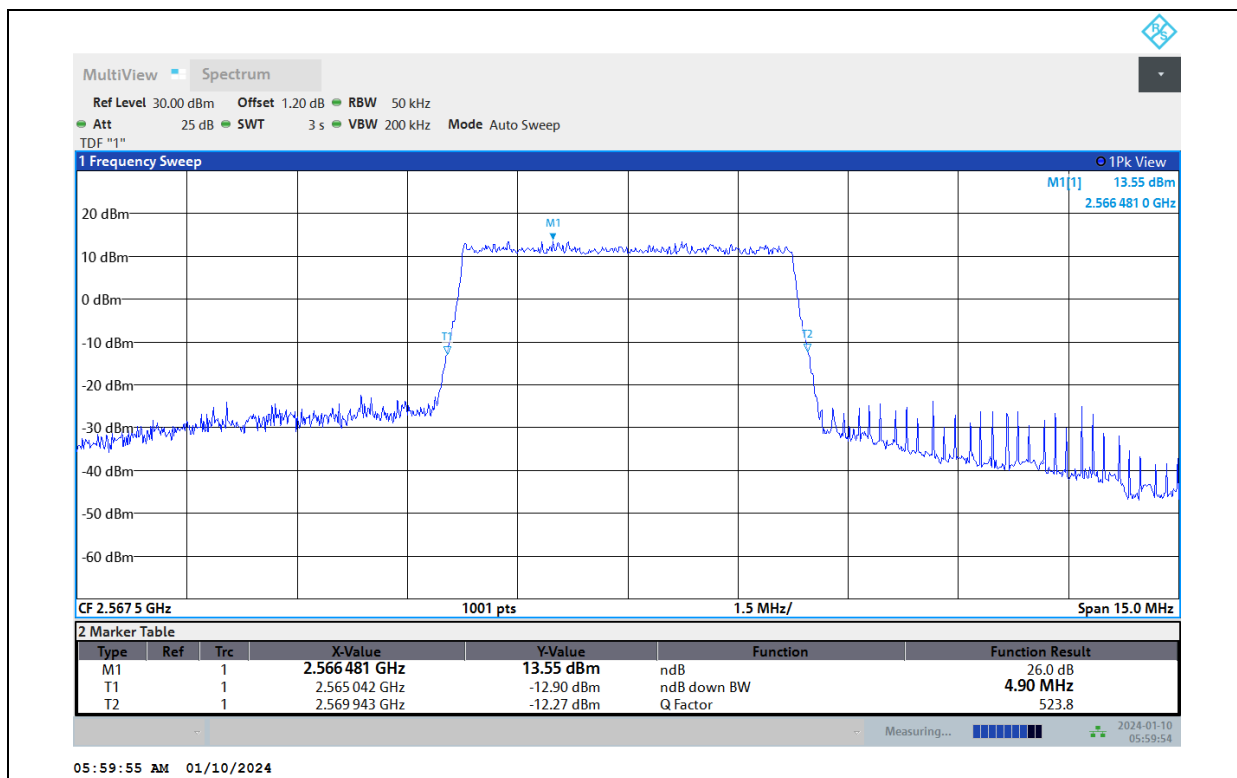


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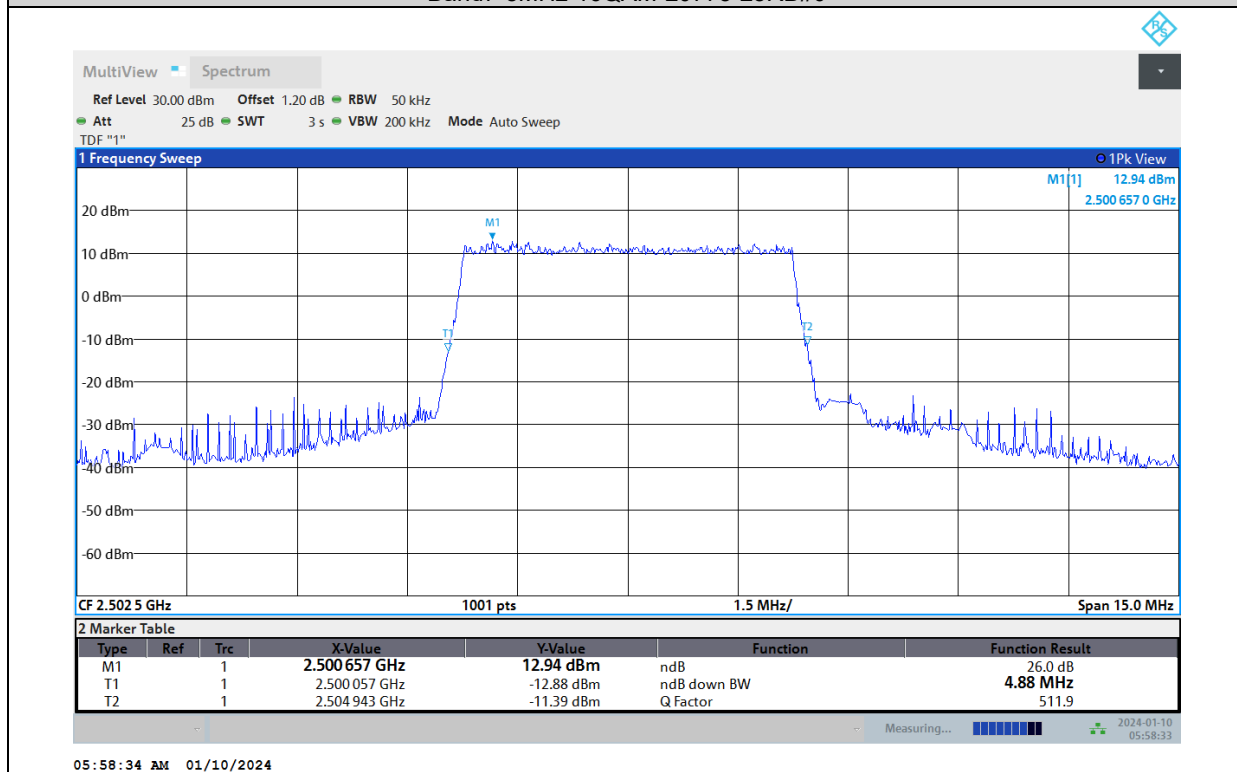


## 26dB Bandwidth

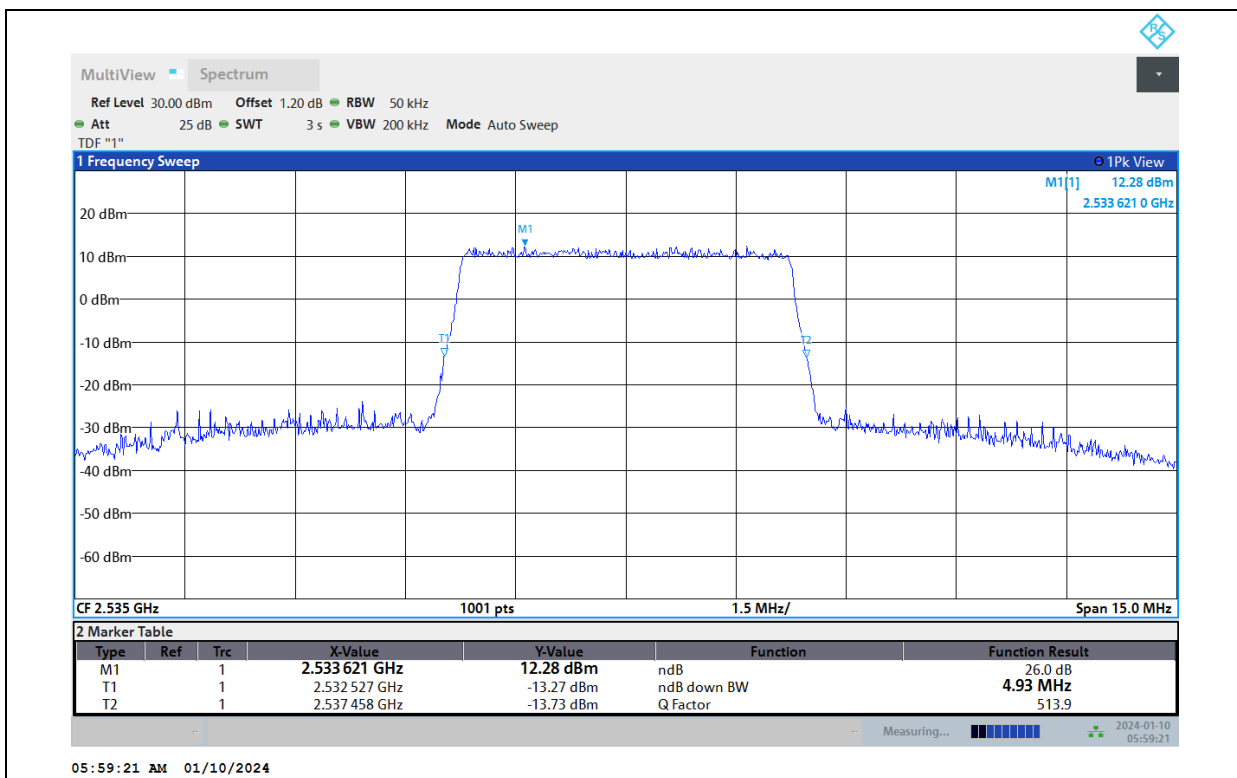




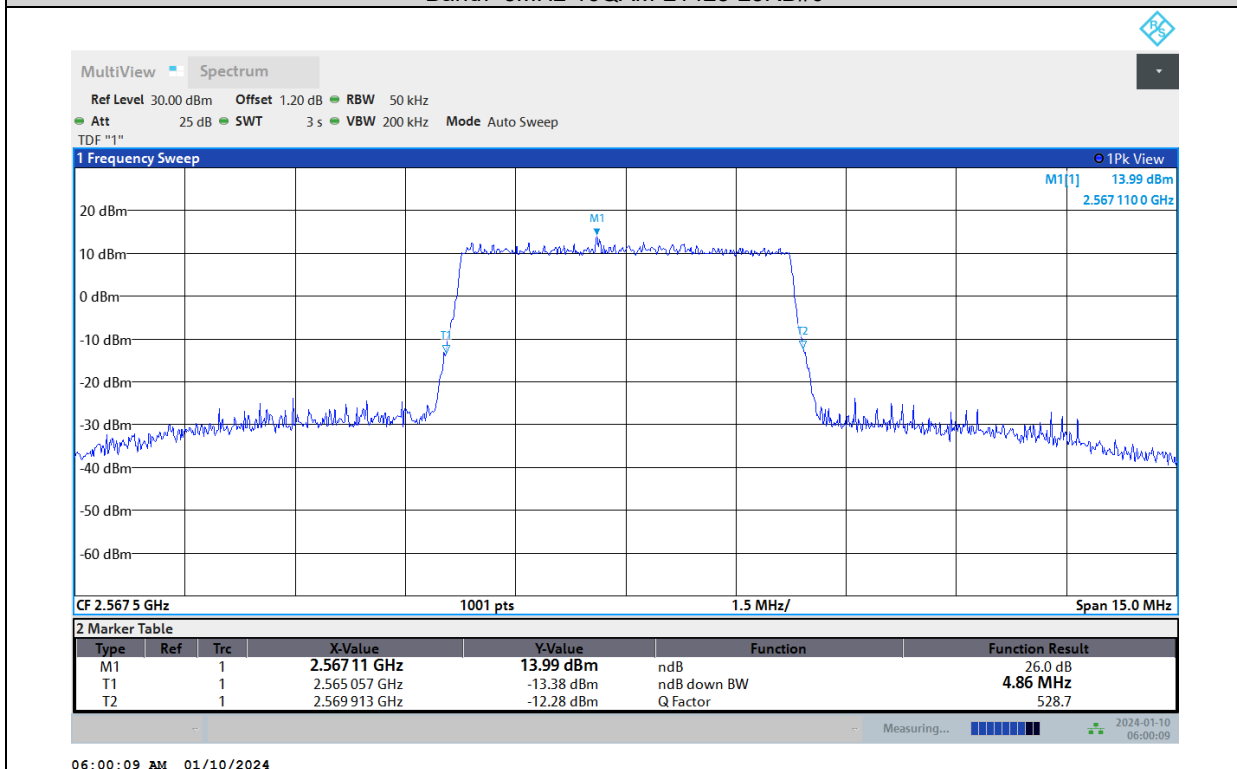
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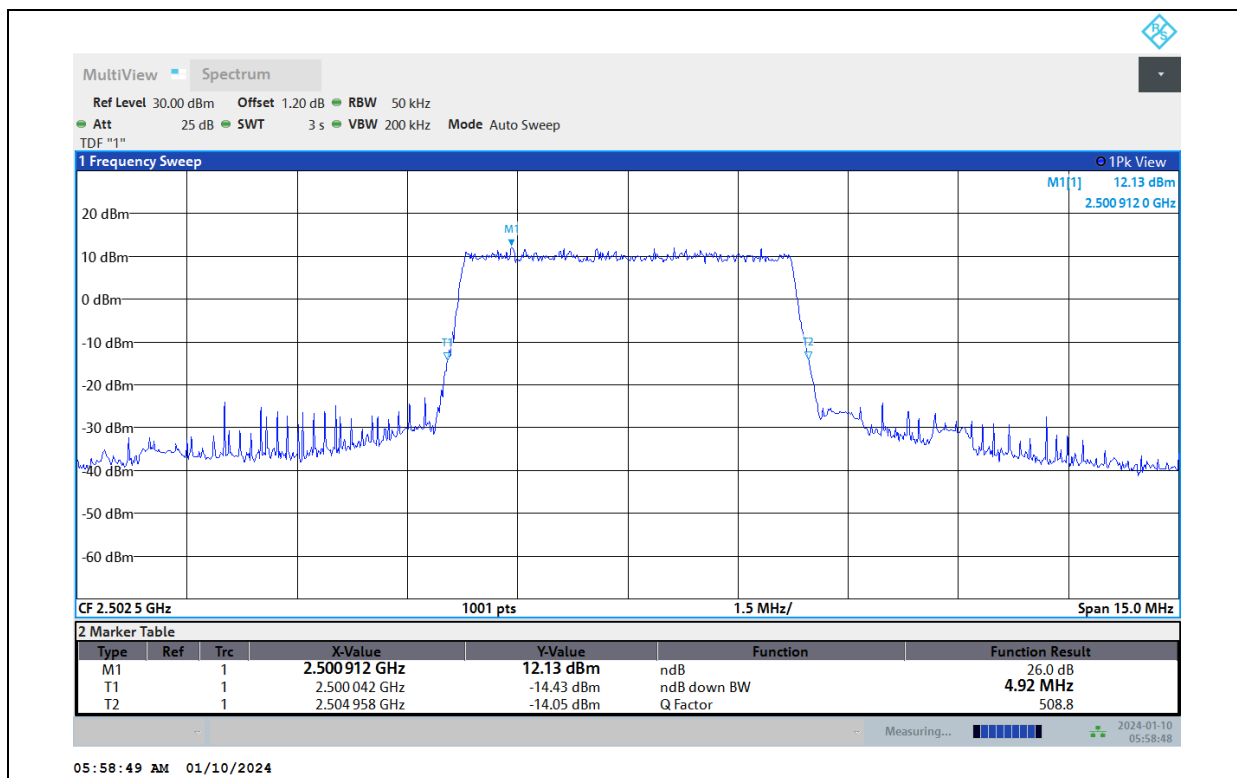
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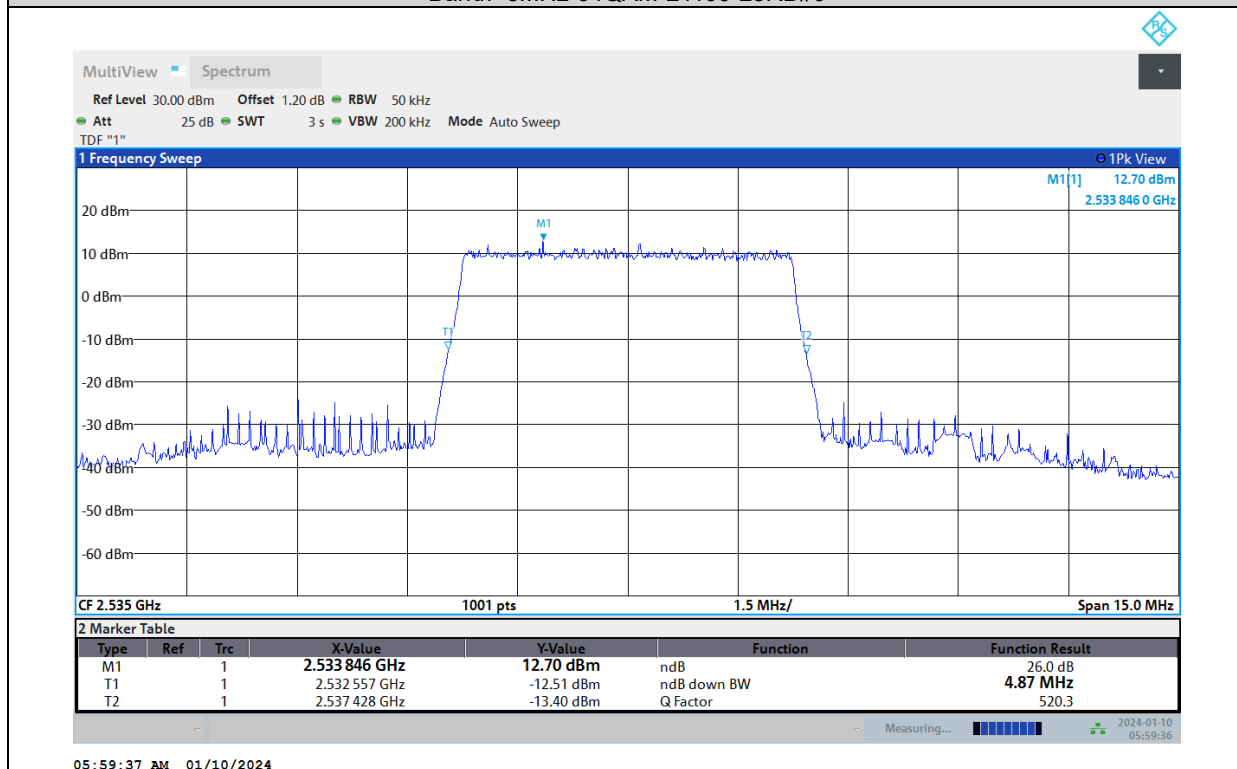
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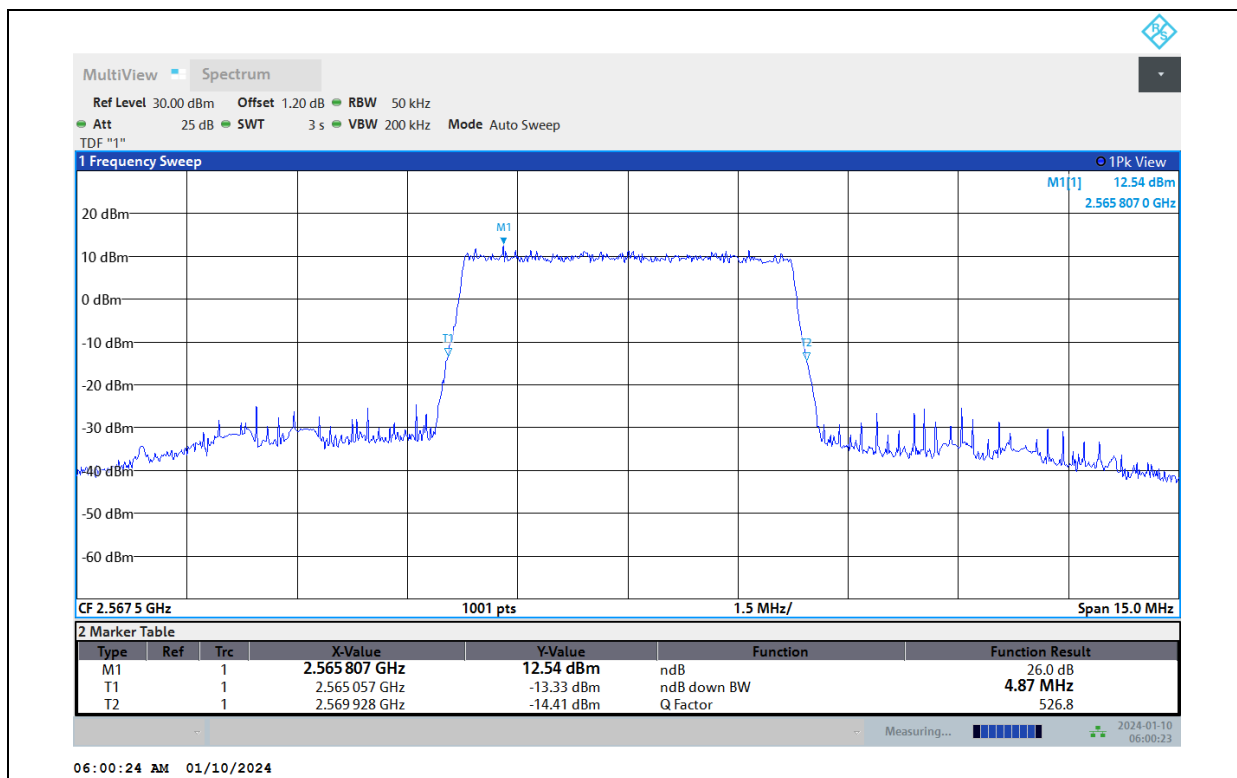
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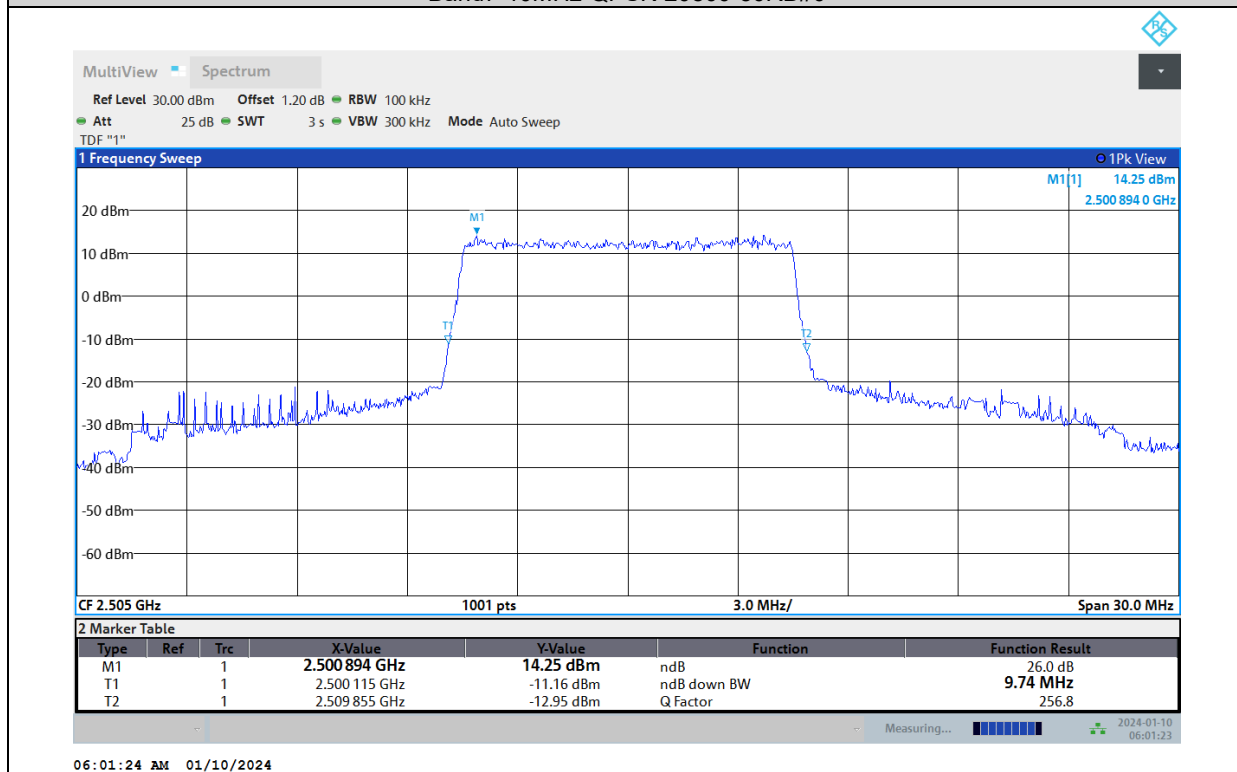
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Band7-5MHz-64QAM-21425-25RB#0



**Band7-10MHz-QPSK-20800-50RB#0**



**Band7-10MHz-QPSK-21100-50RB#0**