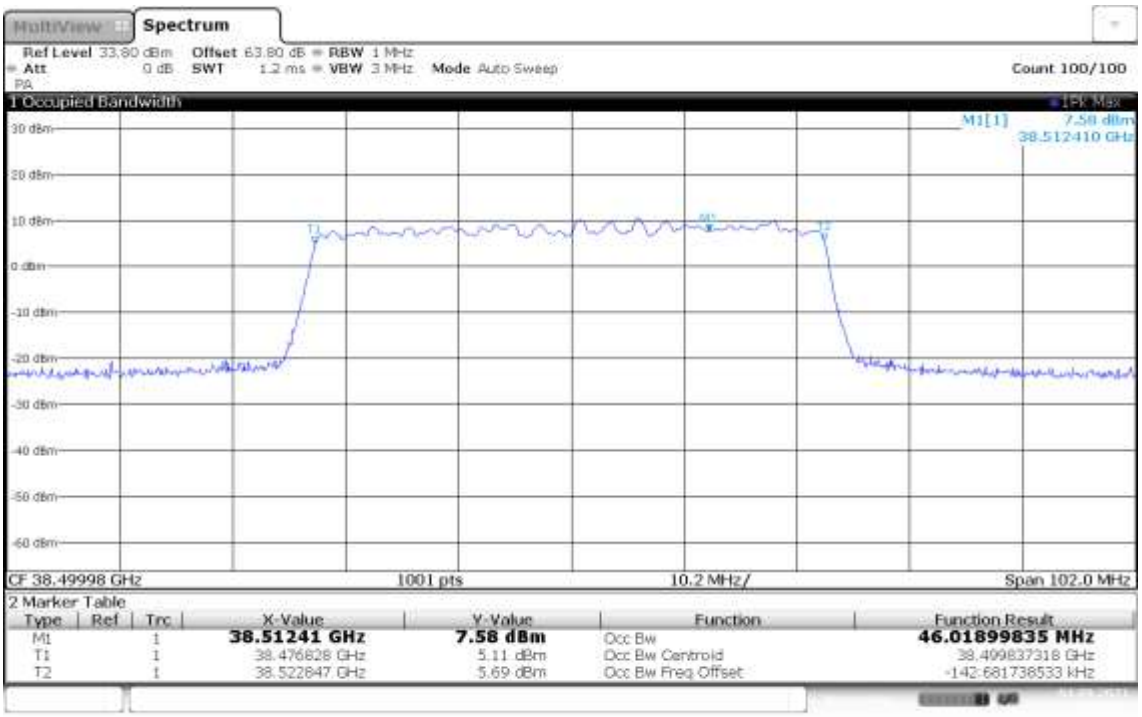
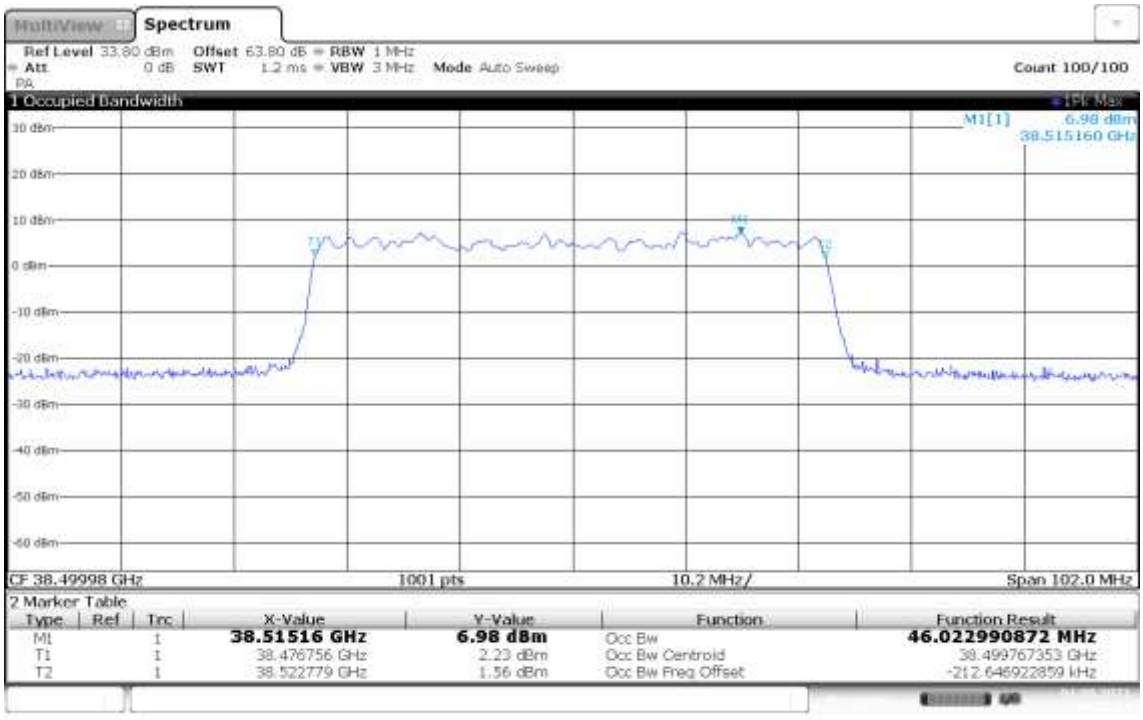
**n260, 50MHz Bandwidth, 16QAM (99% BW)**




15:51:21 04.09.2021

**n260, 50MHz Bandwidth, 64QAM (99% BW)**




16:03:47 04.09.2021

Note: The worst modulation is QPSK, and we test follow setups used QPSK.

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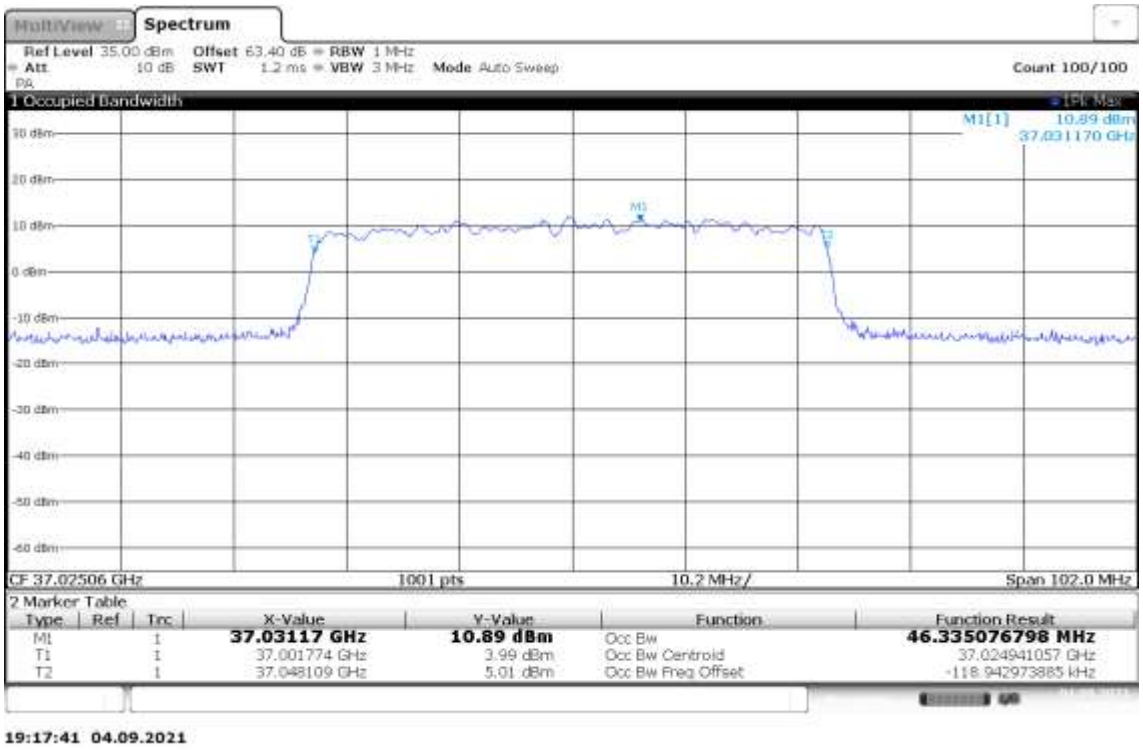
**n260, 50MHz (99%)**

**LOW CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 37025.04 | QPSK | 16QAM | 64QAM |
| | 46.34 | / | / |

**n260, 50MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**




19:17:41 04.09.2021

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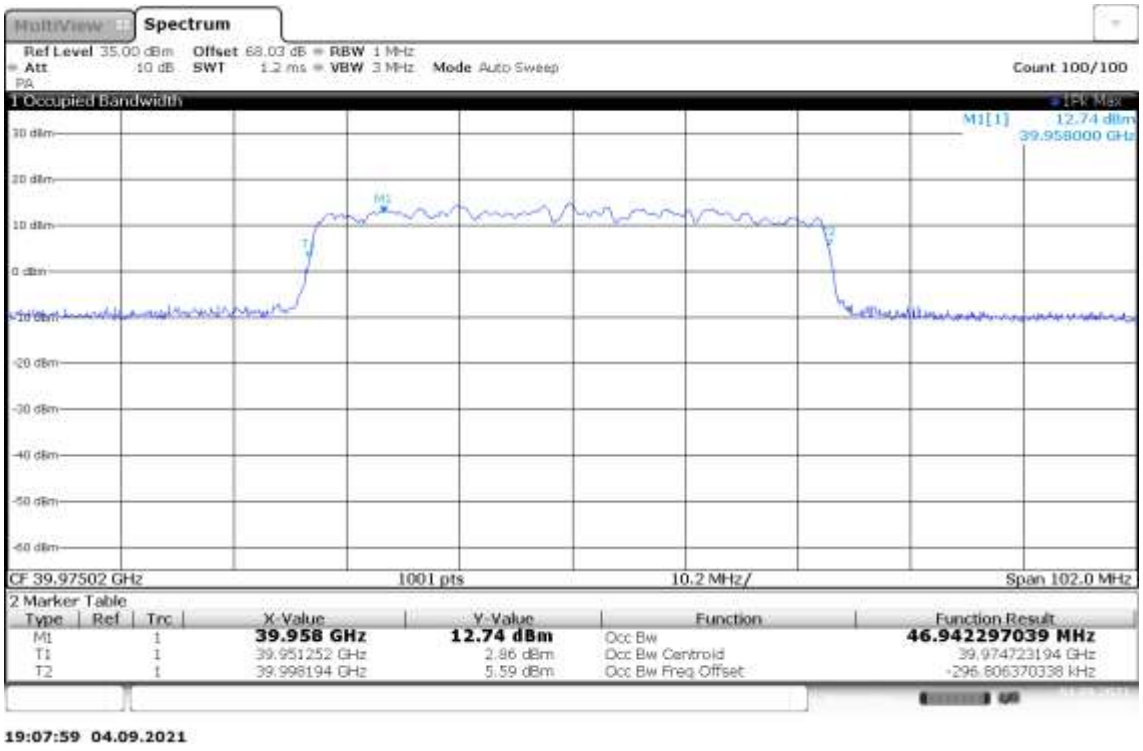
**n260, 50MHz (99%)**

**HIGH CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 39975 | QPSK | 16QAM | 64QAM |
| | 46.94 | / | / |

**n260, 50MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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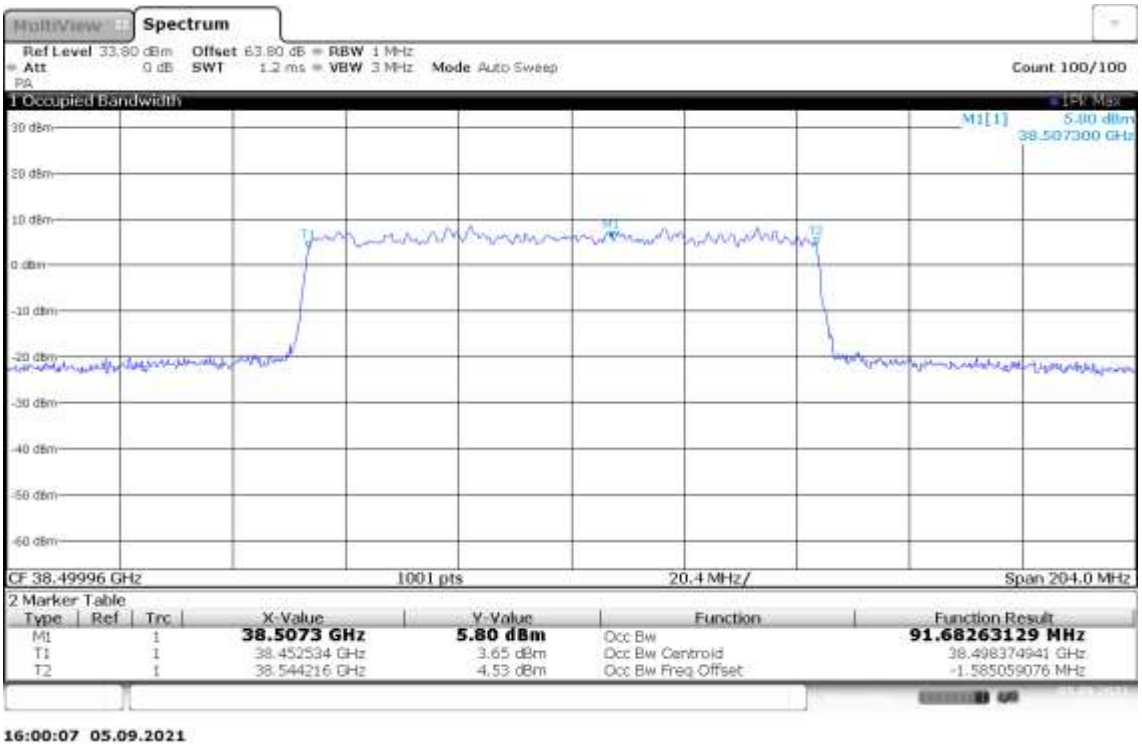
**n260, 100MHz (99%)**

**MID CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 38499.96 | QPSK | 16QAM | 64QAM |
| | 91.68 | 91.51 | 91.59 |

**n260, 100MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**

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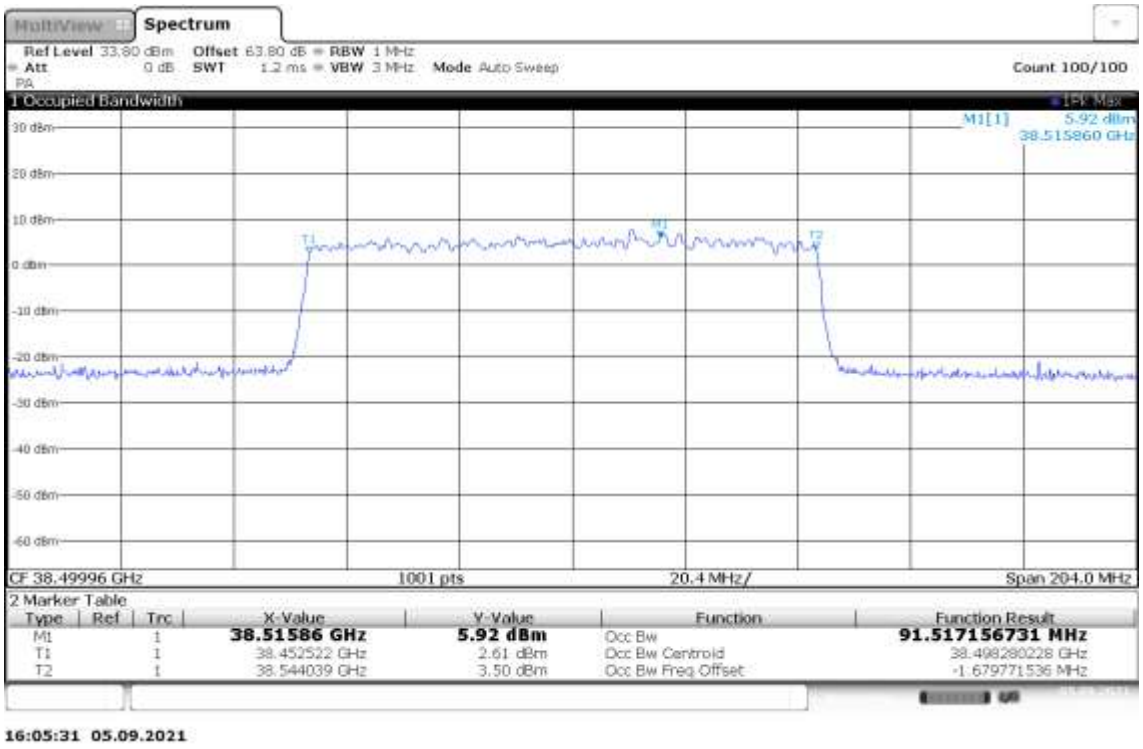
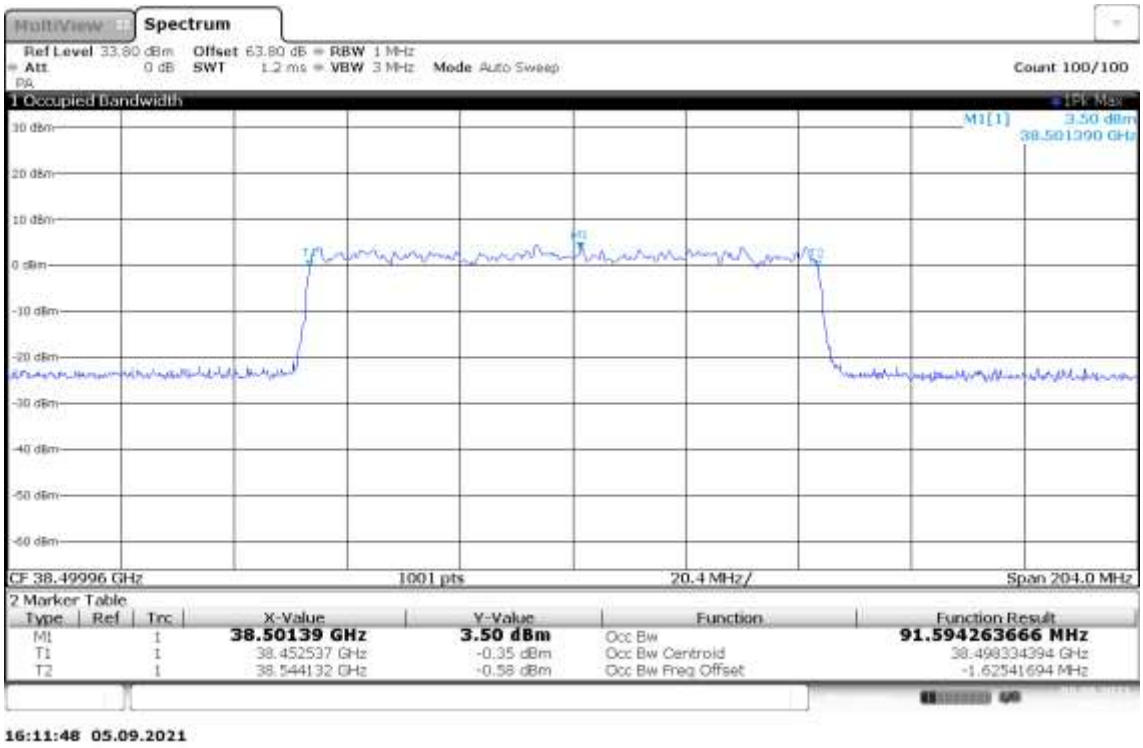
**n260, 100MHz Bandwidth, MID CHANNEL, 16QAM (99% BW)**




**n260, 100MHz Bandwidth, MID CHANNEL, 64QAM (99% BW)**




Note: The worst modulation is QPSK, and we test follow setups used QPSK.

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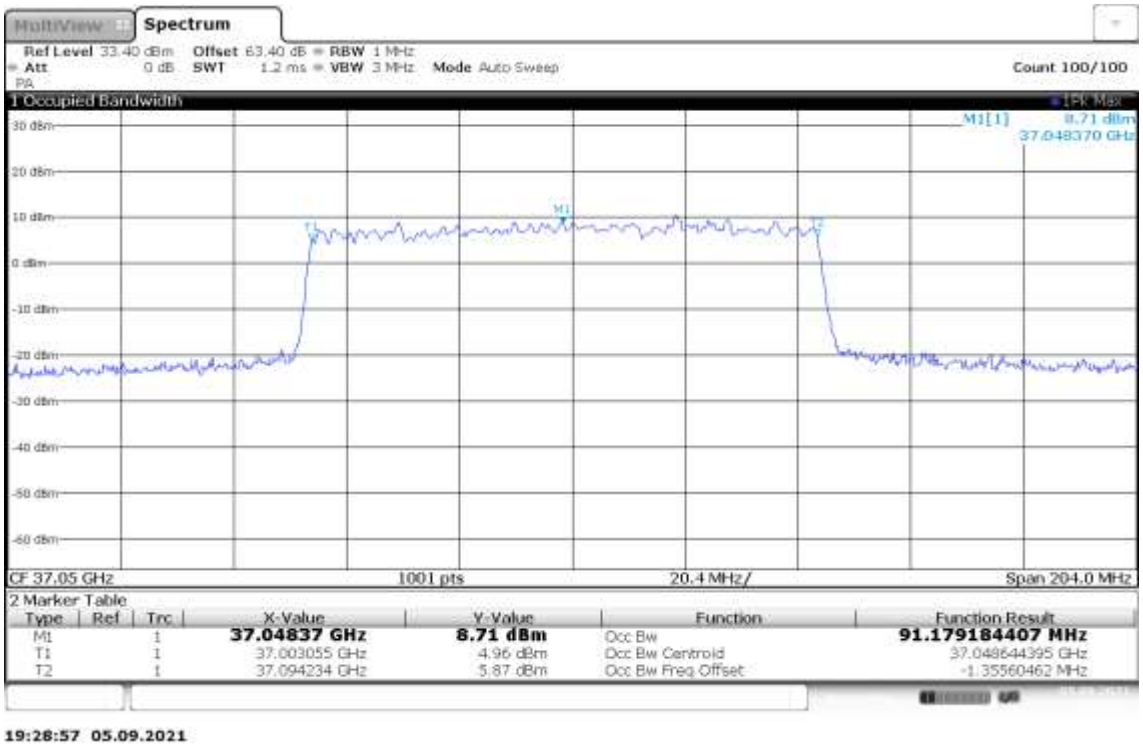
**n260, 100MHz (99%)**

**LOW CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 37050 | QPSK | 16QAM | 64QAM |
| | 91.18 | / | / |

**n260, 100MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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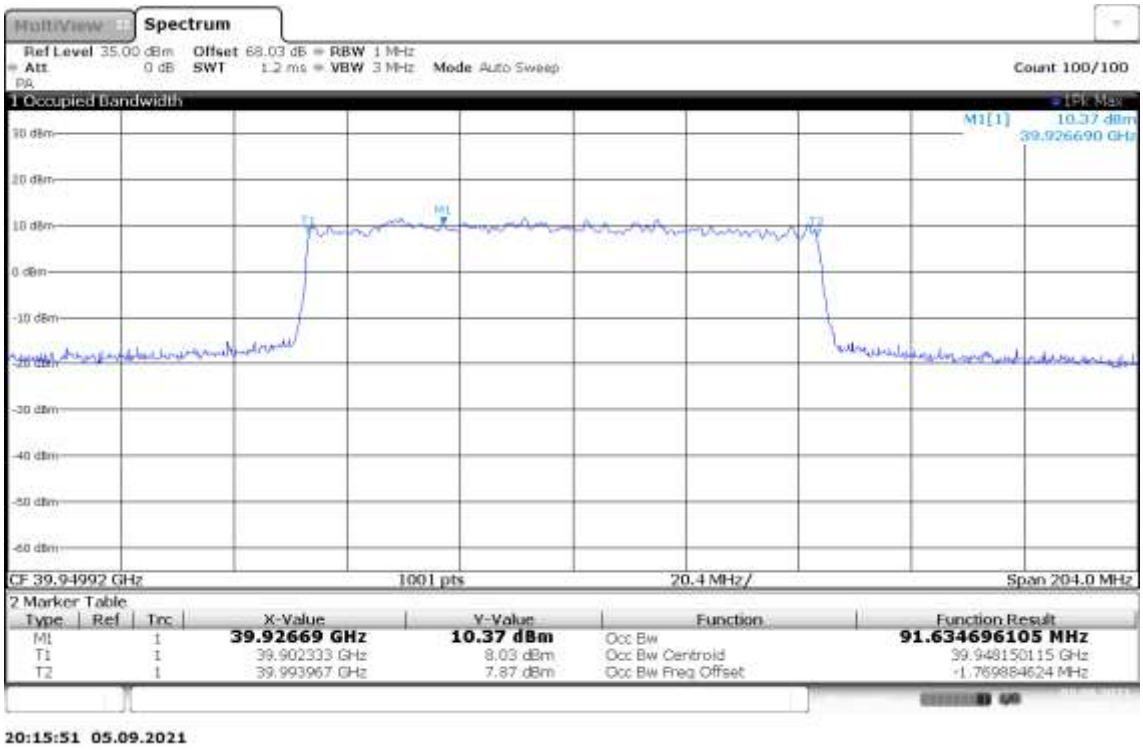
**n260, 100MHz (99%)**

**HIGH CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 39949.92 | QPSK | 16QAM | 64QAM |
| | 91.63 | / | / |

**n260, 100MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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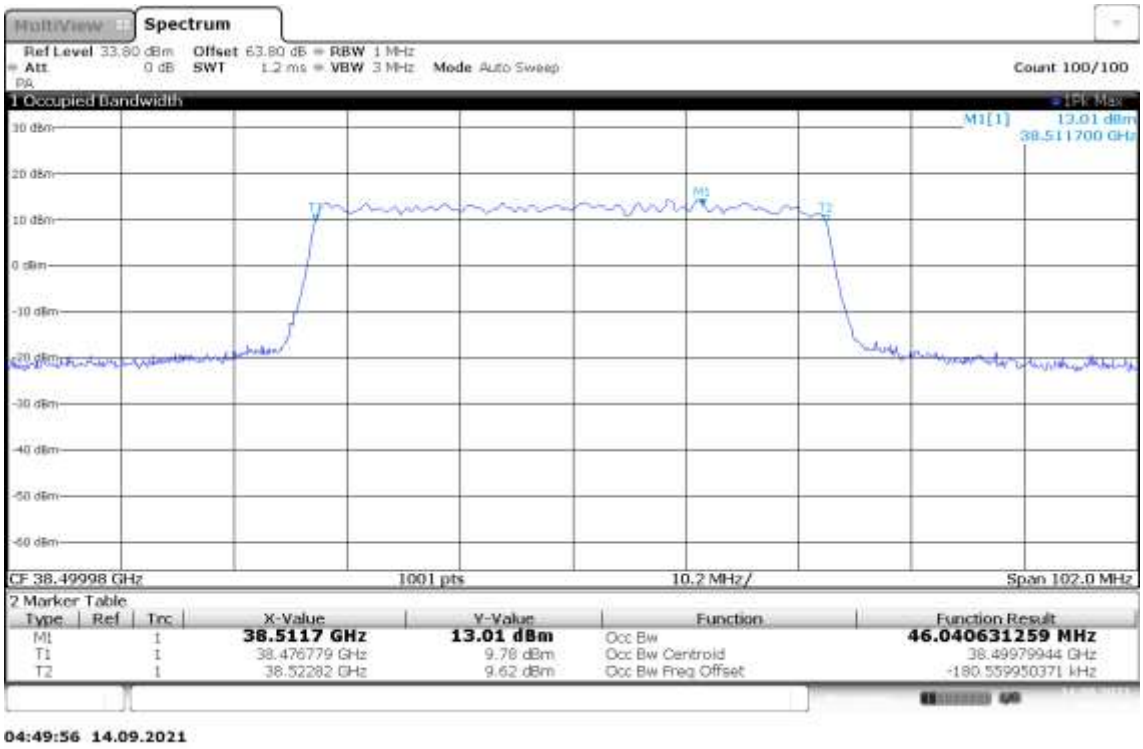
**NOTE:** Note: The worst modulation is QPSK, and we test follow setups used QPSK.

**n260, 50MHz (99%)**

**MID CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 38499.96 | QPSK | 16QAM | 64QAM |
| | 46.04 | / | / |

**n260, 50MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**

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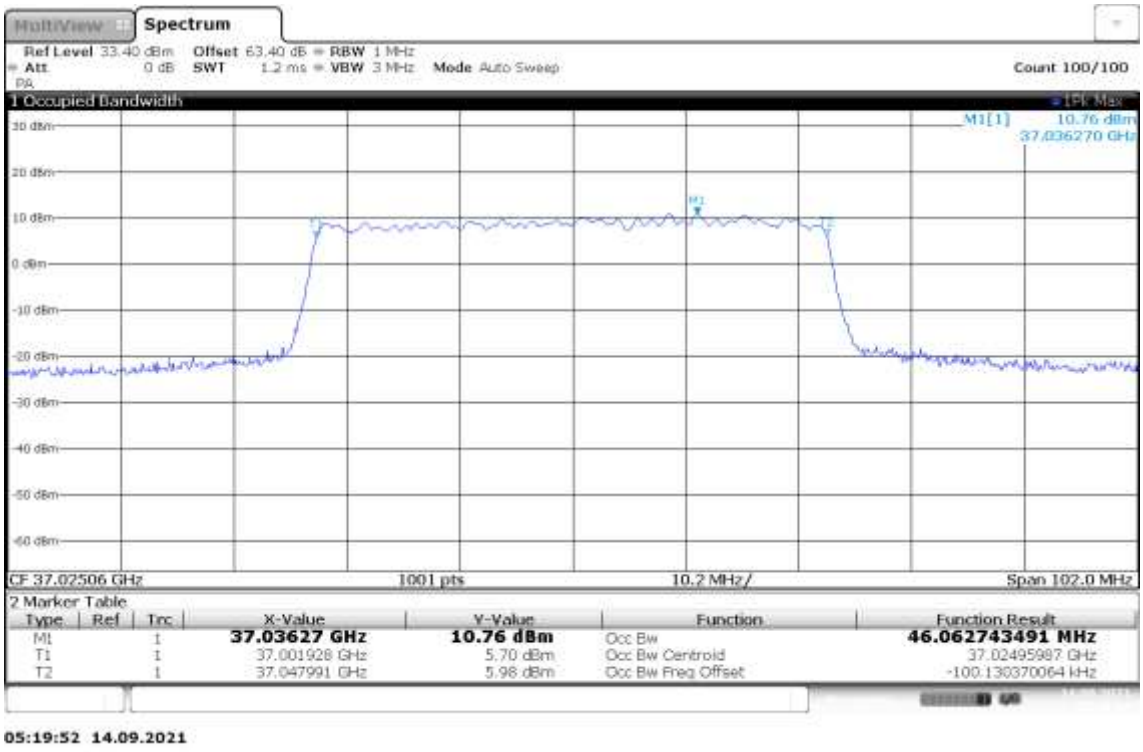
**LOW CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 37025.04 | QPSK | 16QAM | 64QAM |
| | 46.06 | / | / |

**n260, 50MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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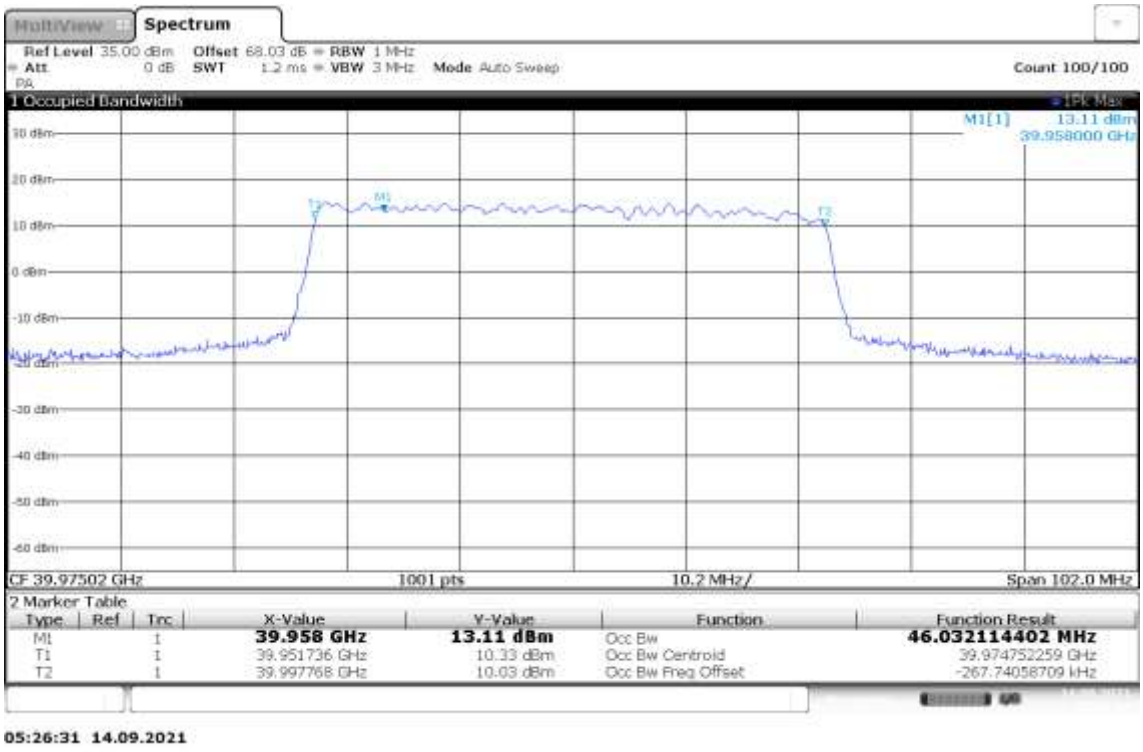
**HIGH CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 37025.04 | QPSK | 16QAM | 64QAM |
| | 46.03 | / | / |

**n260, 50MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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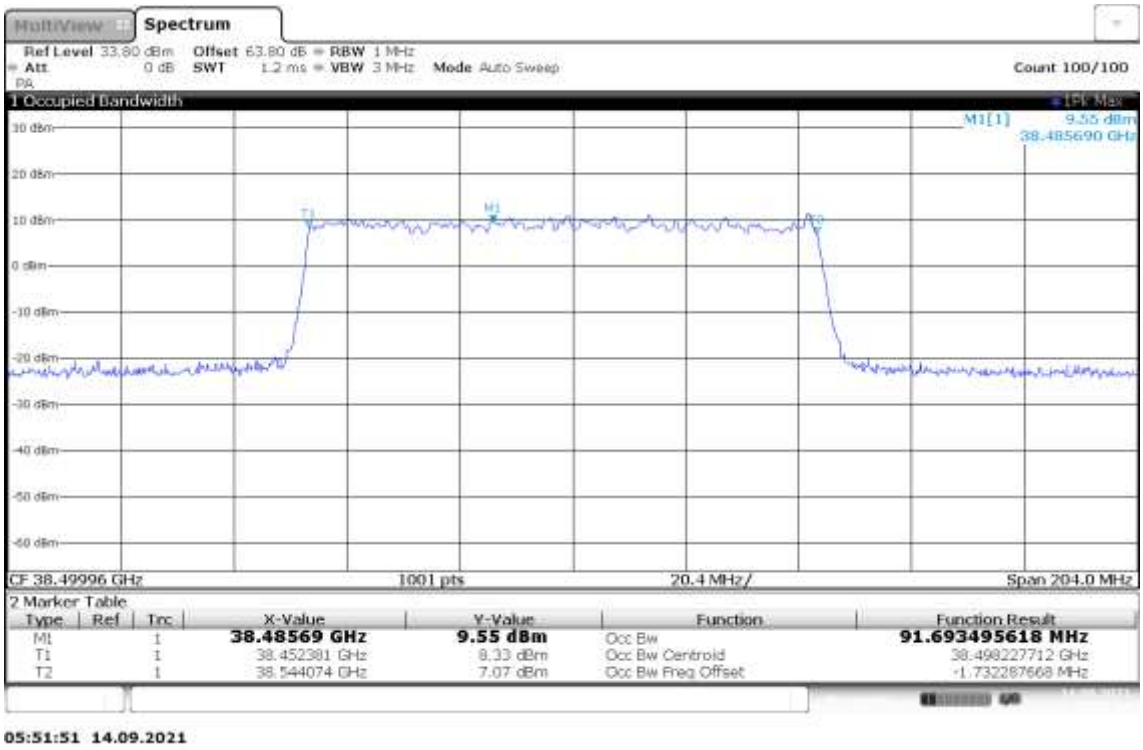
**n260, 100MHz (99%)**

**MID CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 38499.96 | QPSK | 16QAM | 64QAM |
| | 91.69 | / | / |

**n260, 100MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**

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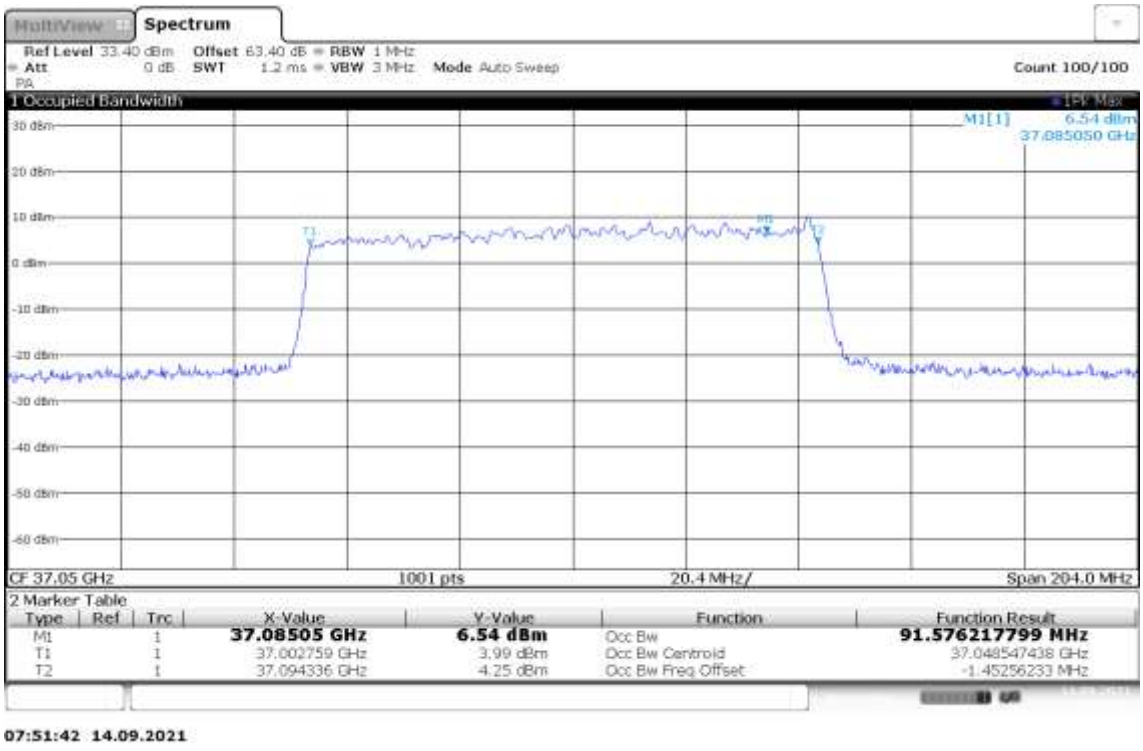
**LOW CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 37050 | QPSK | 16QAM | 64QAM |
| | 91.58 | / | / |

**n260, 100MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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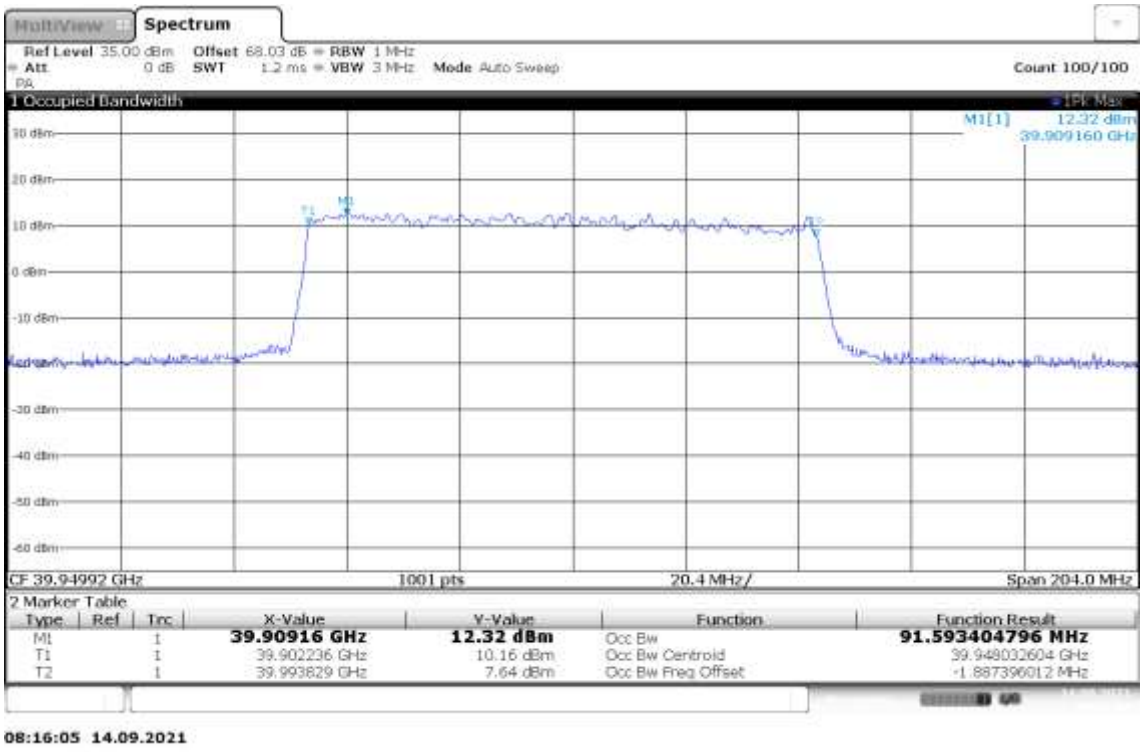
**HIGH CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 39949.92 | QPSK | 16QAM | 64QAM |
| | 91.59 | / | / |

**n260, 100MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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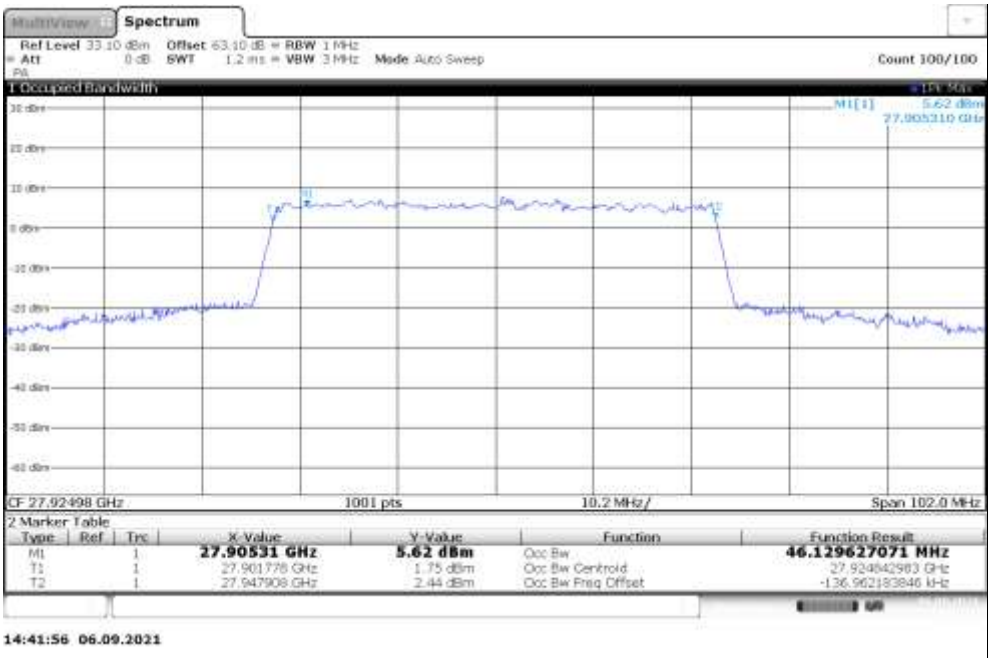
**n261, 50MHz (99%)**

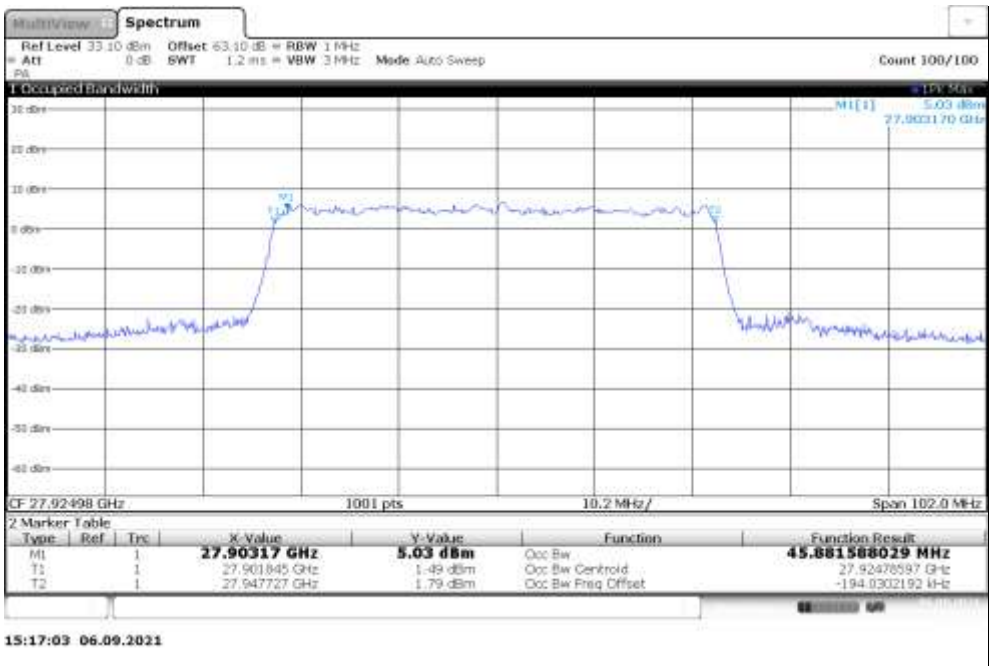
**MID CHANNEL**

| Module0, CP-OFDM | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27924.96 | QPSK | 16QAM | 64QAM |
| | 46.13 | 45.88 | 45.99 |

**n261, 50MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**




**n261, 50MHz Bandwidth, MID CHANNEL, 16QAM (99% BW)**

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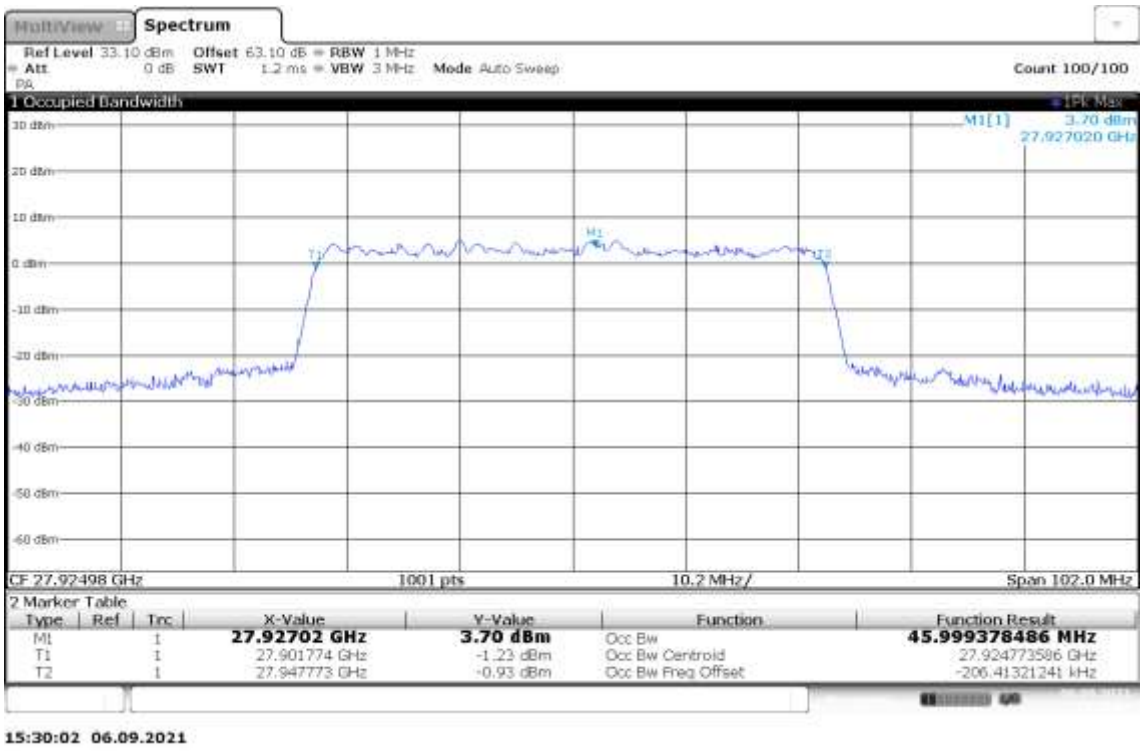
**n261, 50MHz Bandwidth, MID CHANNEL, 64QAM (99% BW)**




Note: The worst modulation is QPSK, and we test follow setups used QPSK.

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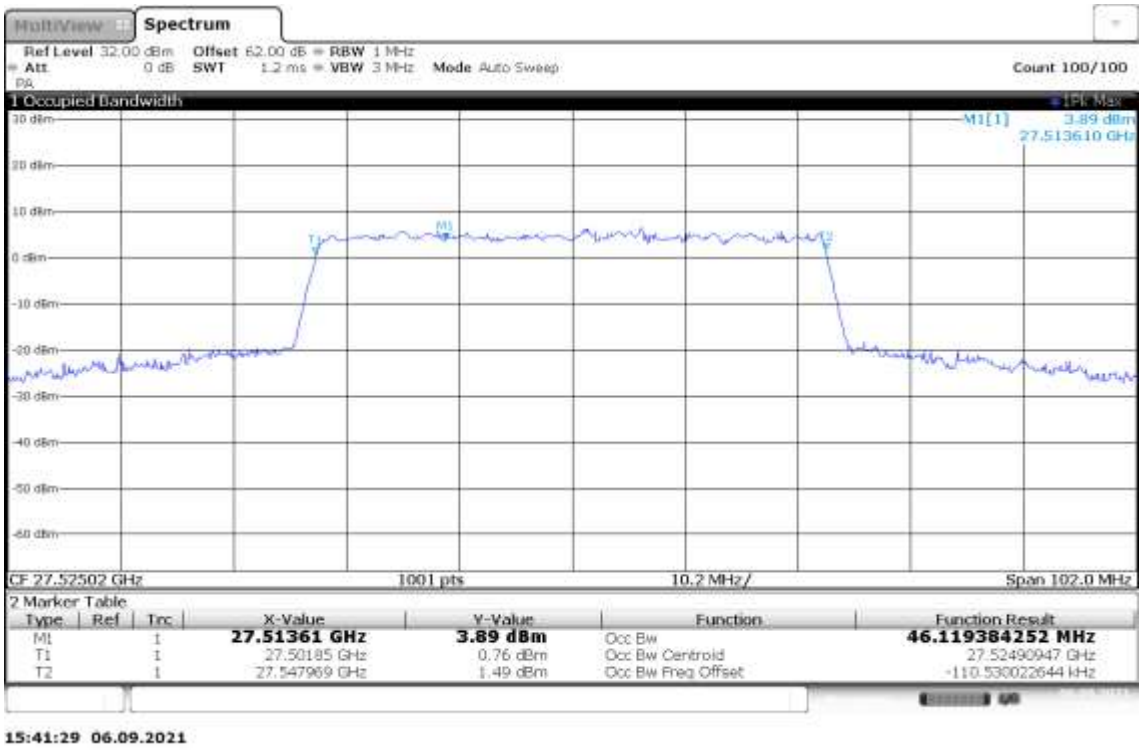
**n261, 50MHz (99%)**

**LOW CHANNEL**

| Module0, CP-OFDM | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27525 | QPSK | 16QAM | 64QAM |
| | 64.12 | / | / |

**n261, 50MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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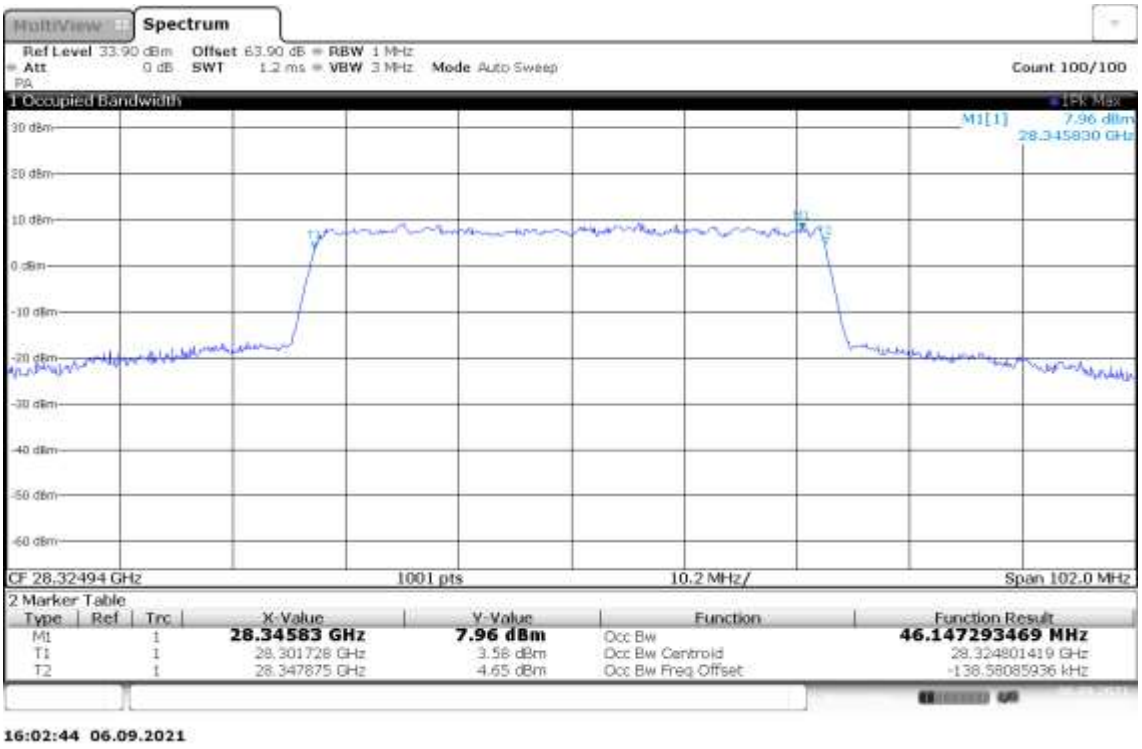
**n261, 50MHz (99%)**

**HIGH CHANNEL**

| Module0, CP-OFDM | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 28324.92 | QPSK | 16QAM | 64QAM |
| | 46.15 | / | / |

**n261, 50MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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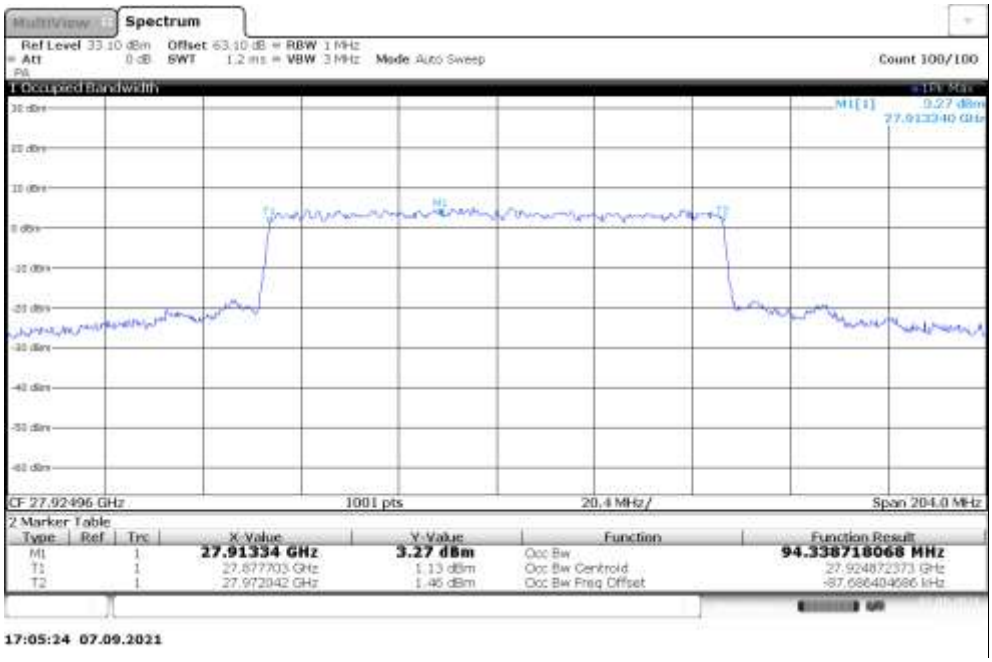
**n261, 100MHz (99%)**

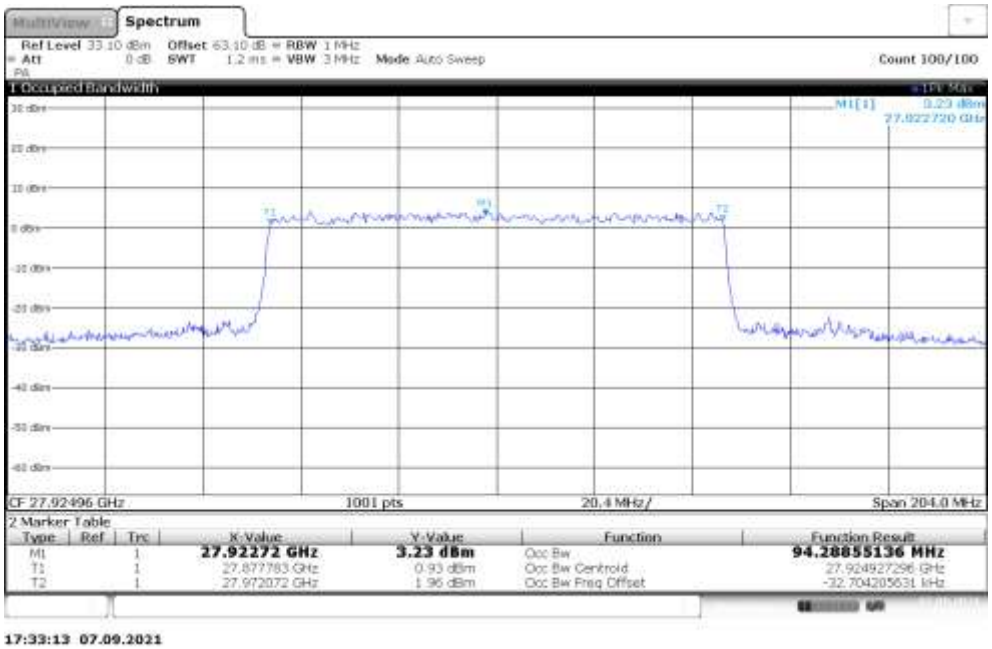
**MID CHANNEL**

| Module0, CP-OFDM | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27924.96 | QPSK | 16QAM | 64QAM |
| | 94.34 | 94.29 | **94.37** |

**n261, 100MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**




**n261, 100MHz Bandwidth, MID CHANNEL, 16QAM (99% BW)**

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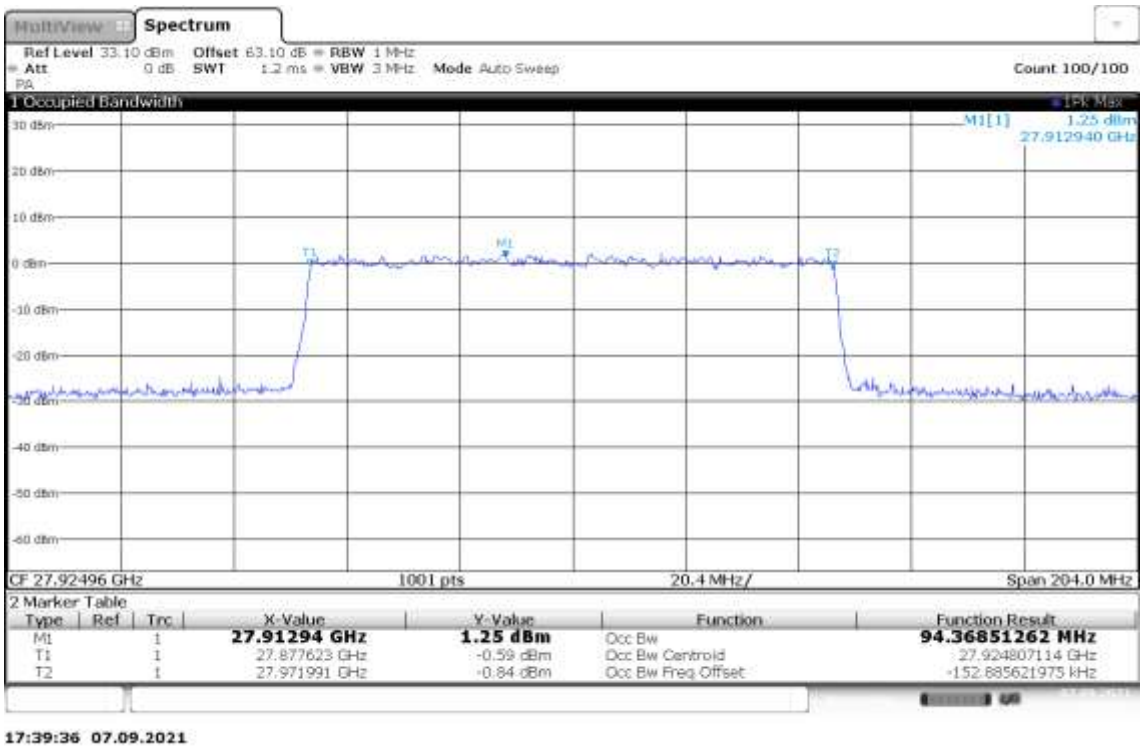
**n261, 100MHz Bandwidth, MID CHANNEL, 64QAM (99% BW)**




Note: The worst modulation is 64QAM, and we test follow setups used 64QAM.

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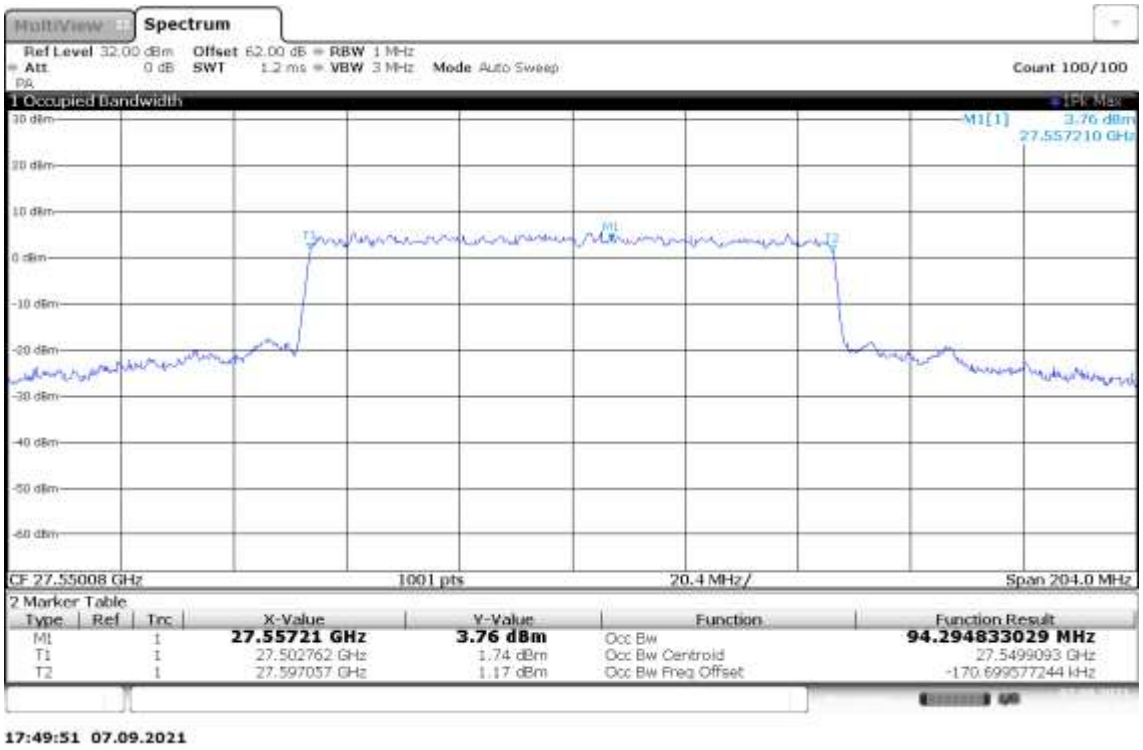
**n261, 100MHz (99%)**

**LOW CHANNEL**

| Module0, CP-OFDM | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27550.08 | QPSK | 16QAM | 64QAM |
| | / | / | 94.29 |

**n261, 100MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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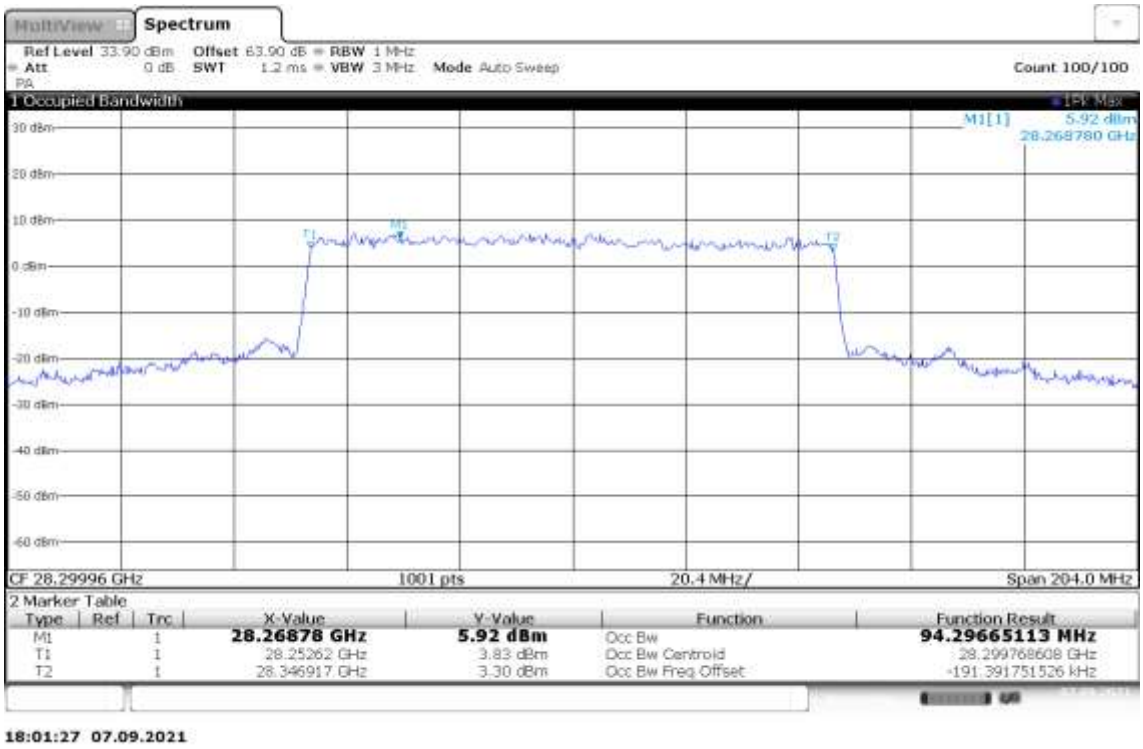
**n261, 100MHz (99%)**

**HIGH CHANNEL**

| Module0, CP-OFDM | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 28299.96 | QPSK | 16QAM | 64QAM |
| | / | / | 94.30 |

**n261, 100MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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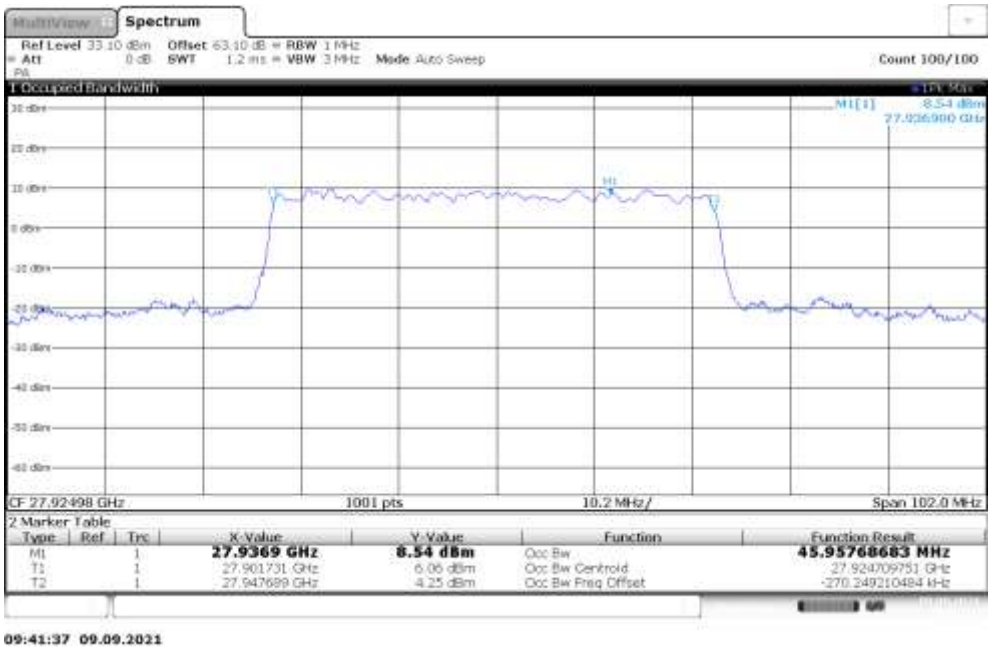
**n261, 50MHz (99%)**

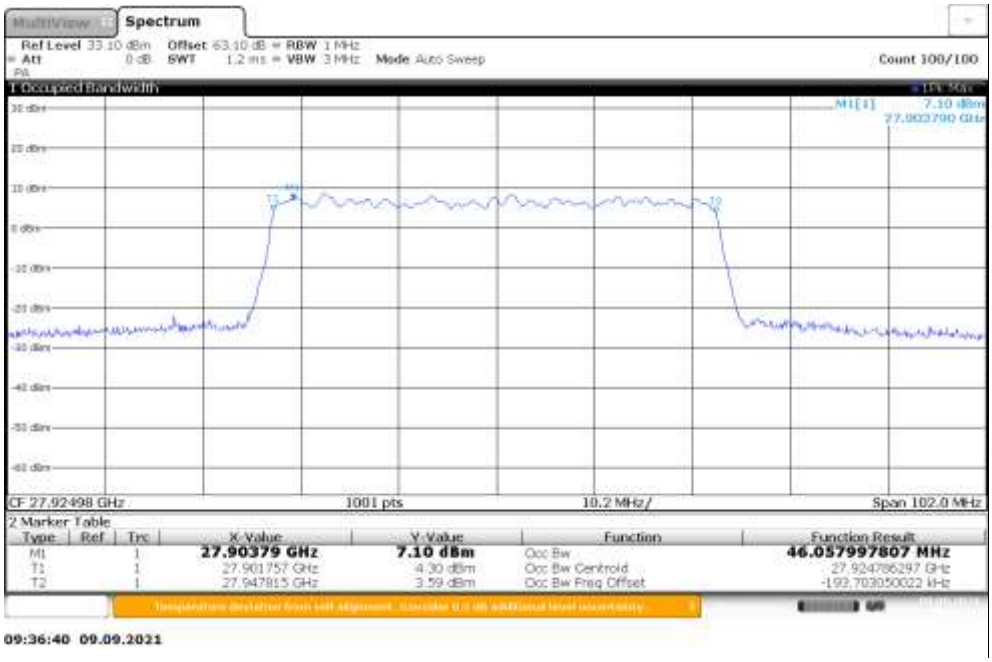
**MID CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27924.96 | QPSK | 16QAM | 64QAM |
| | 45.96 | **46.06** | 45.94 |

**n261, 50MHz Bandwidth, MID CHANNEL,QPSK (99% BW)**




**n261, 50MHz Bandwidth, MID CHANNEL,16QAM (99% BW)**

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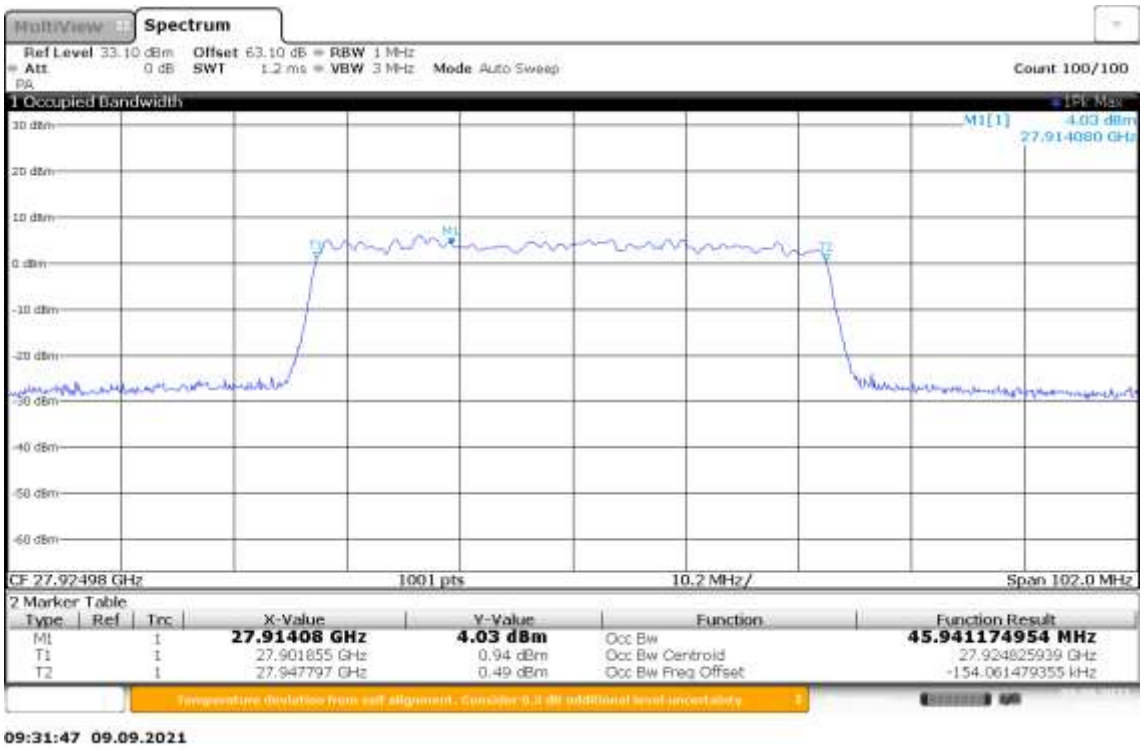
**n261, 50MHz Bandwidth, MID CHANNEL, 64QAM (99% BW)**




Note: The worst modulation is 16QAM, and we test follow setups used 16QAM.

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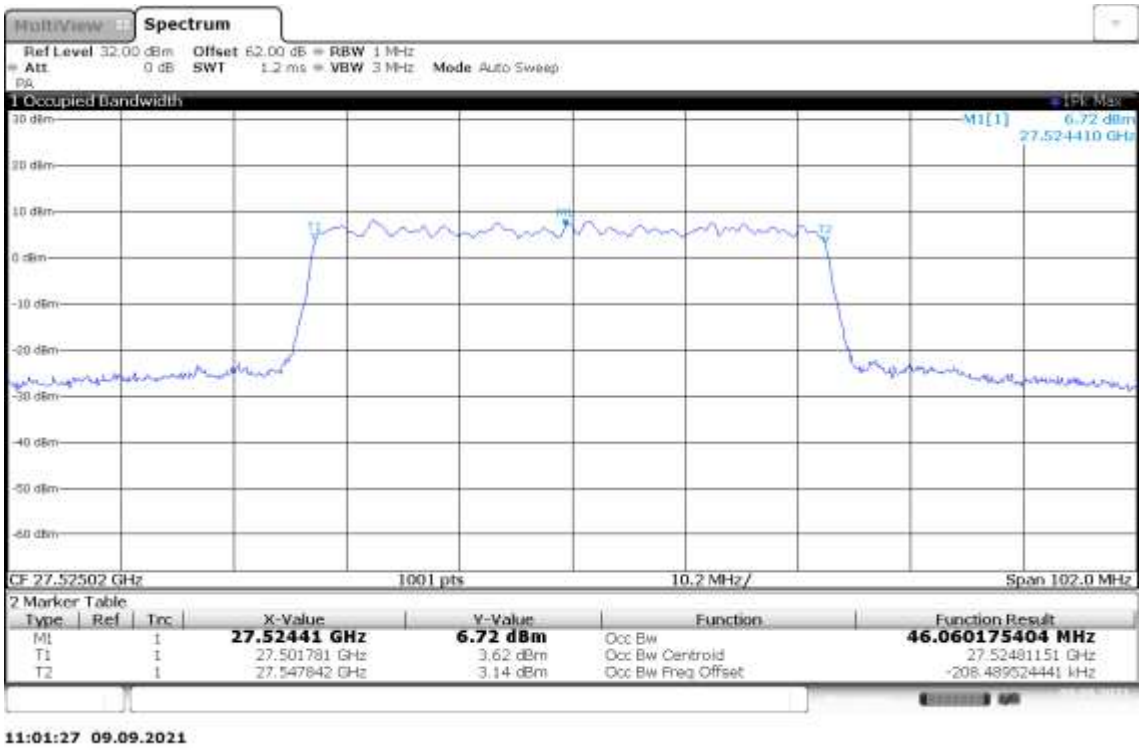
**n261, 50MHz (99%)**

**LOW CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27525 | QPSK | 16QAM | 64QAM |
| | / | 46.06 | / |

**n261, 50MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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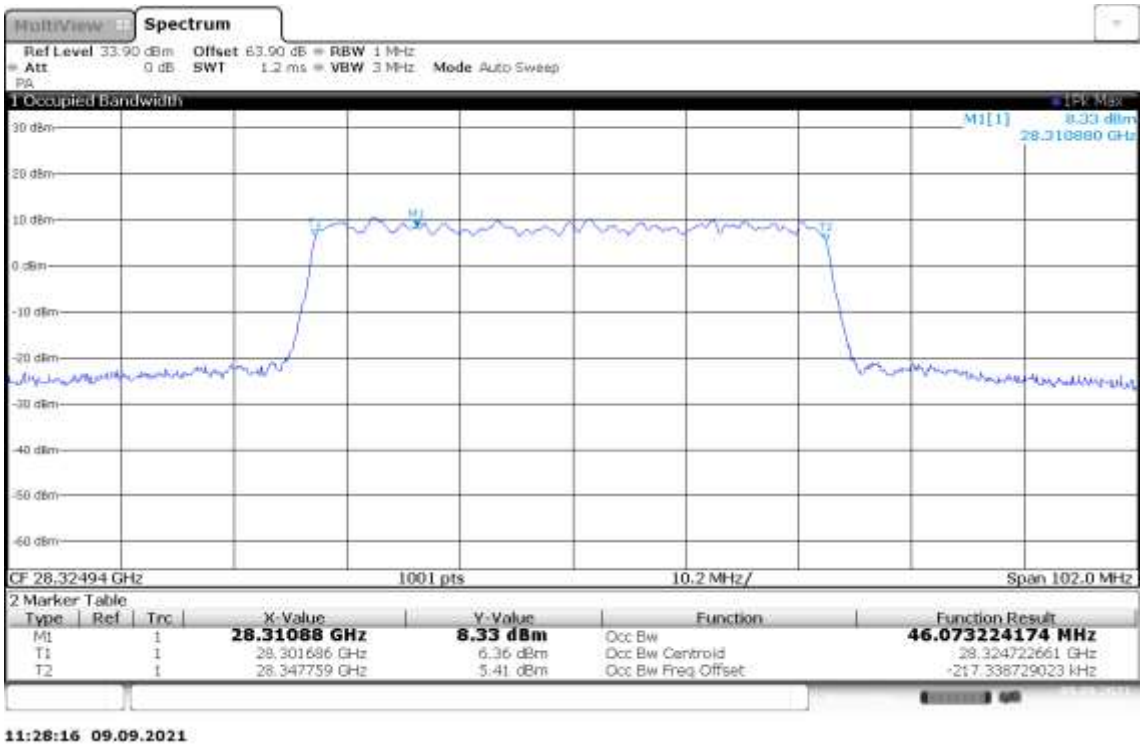
**n261, 50MHz (99%)**

**HIGH CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 28324.92 | QPSK | 16QAM | 64QAM |
| | / | 46.07 | / |

**n261, 50MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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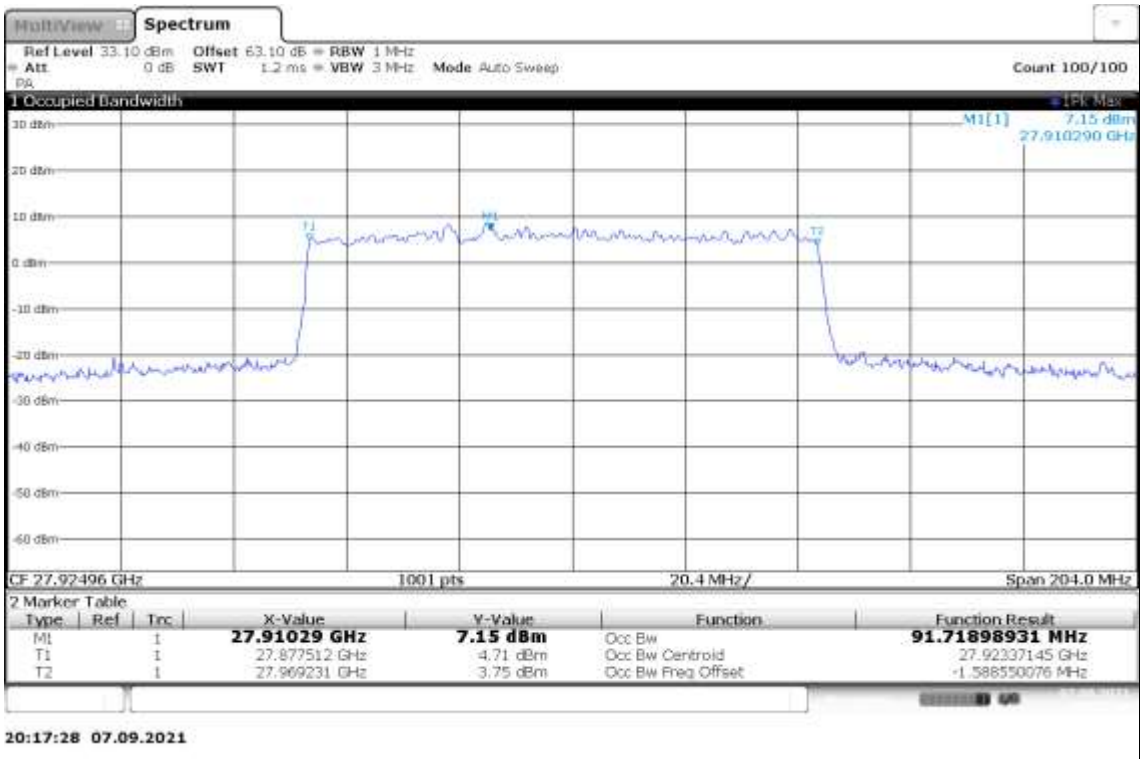
**n261, 100MHz (99%)**

**MID CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27924.96 | QPSK | 16QAM | 64QAM |
| | 91.72 | 91.49 | 91.56 |

**n261, 100MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**

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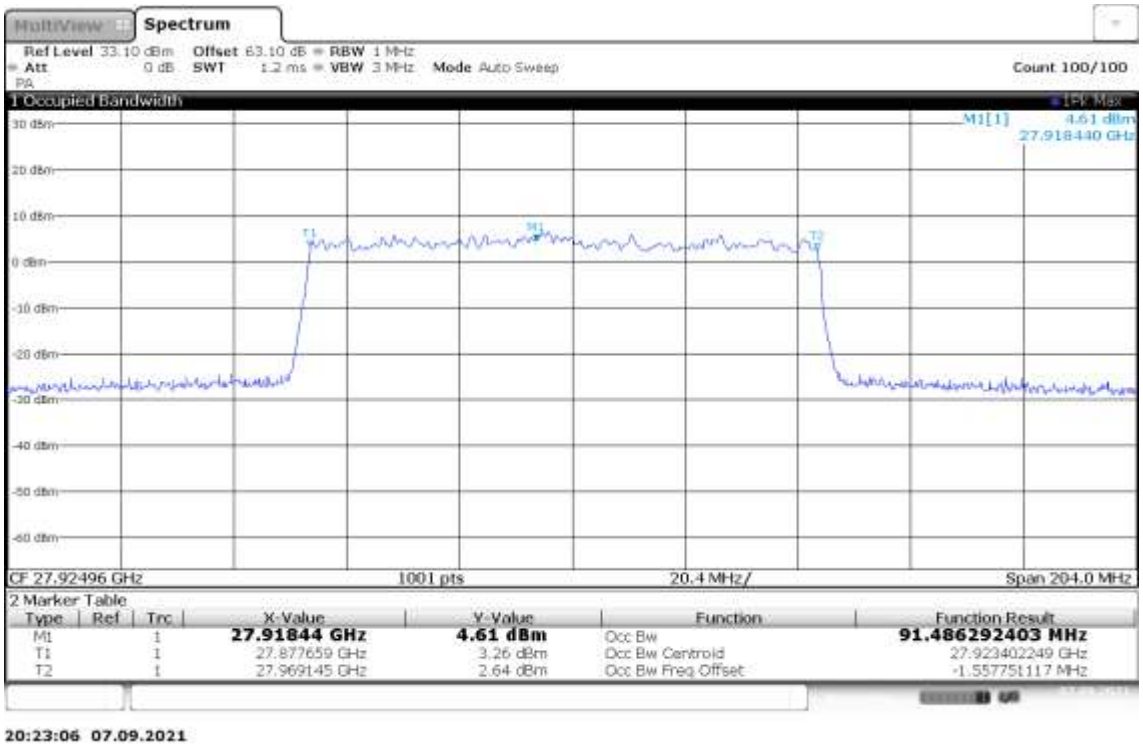
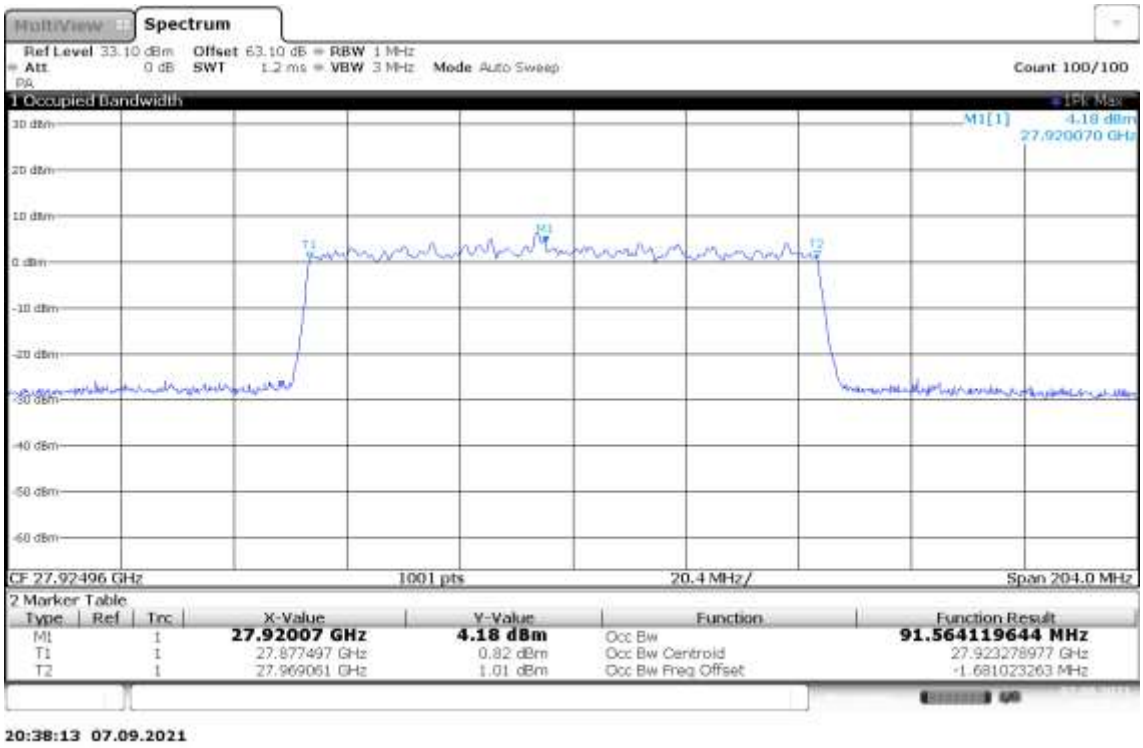
**n261, 100MHz Bandwidth, MID CHANNEL, 16QAM (99% BW)**




**n261, 100MHz Bandwidth, MID CHANNEL, 64QAM (99% BW)**




Note: The worst modulation is QPSK, and we test follow setups used QPSK.

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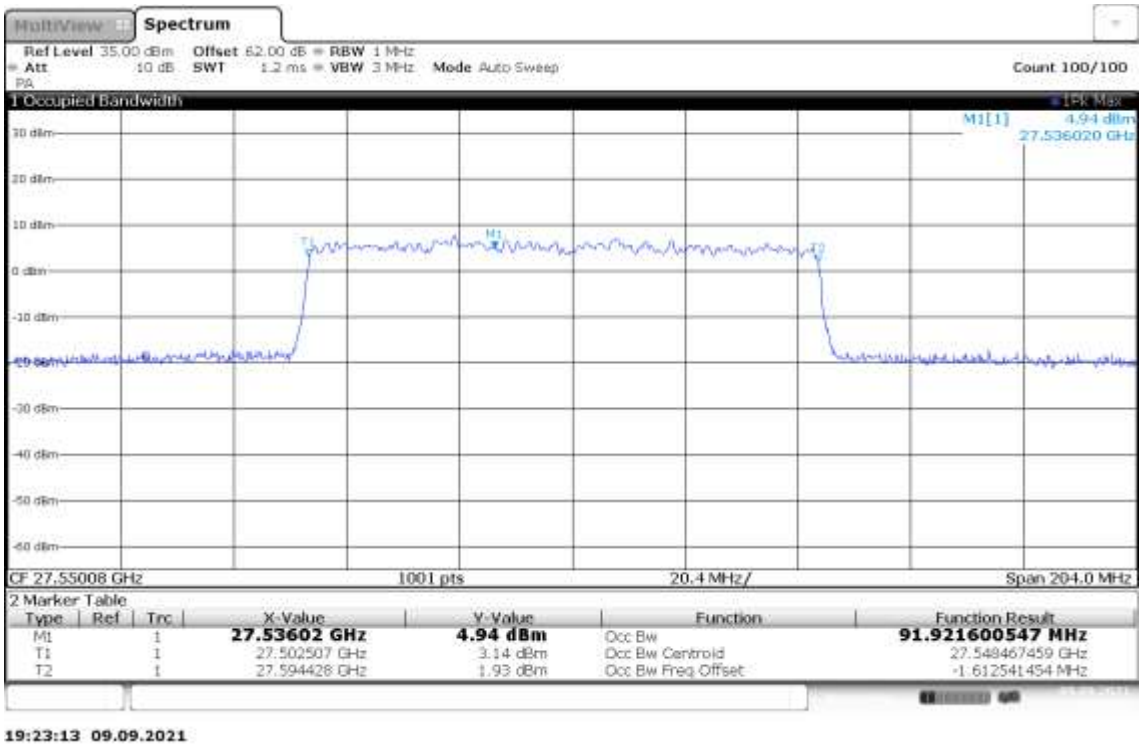
**n261, 100MHz (99%)**

**LOW CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27550.08 | QPSK | 16QAM | 64QAM |
| | 91.92 | / | / |

**n261, 100MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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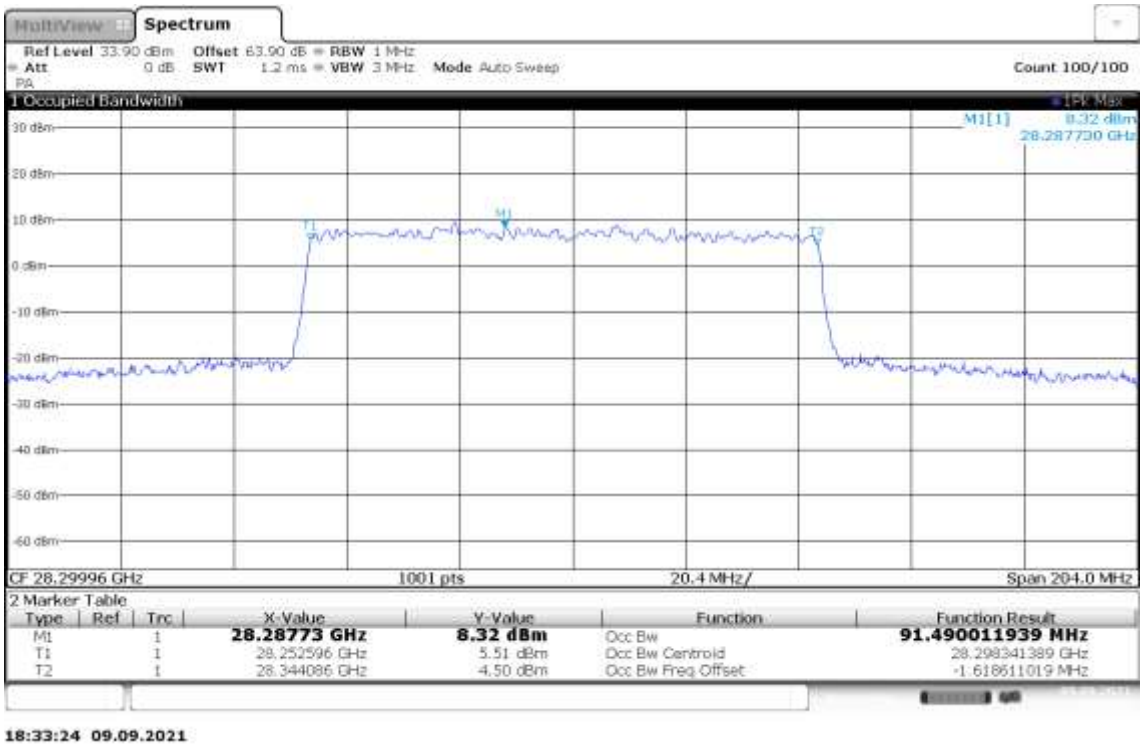
**n261, 100MHz (99%)**

**HIGH CHANNEL**

| Module0, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 28299.96 | QPSK | 16QAM | 64QAM |
| | 91.49 | / | / |

**n261, 100MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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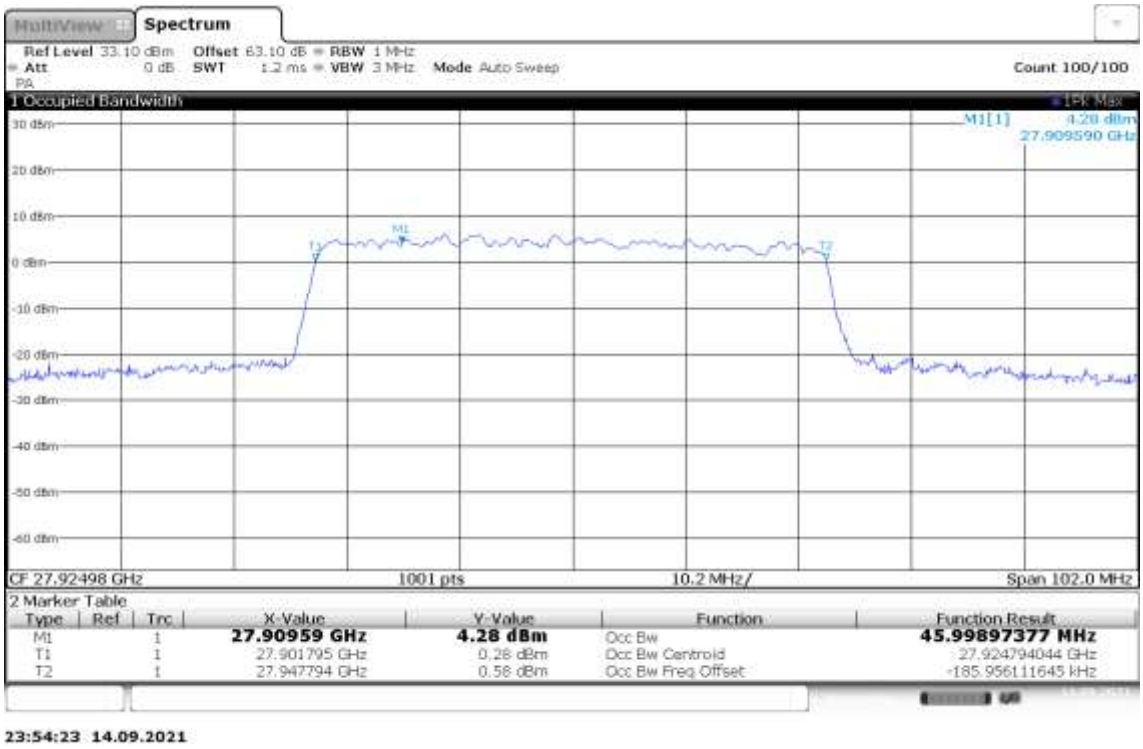
**NOTE:** Note: The worst modulation is QPSK, and we test follow setups used QPSK.

**n261, 50MHz (99%)**

**MID CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27924.96 | QPSK | 16QAM | 64QAM |
| | 46.00 | / | / |

**n261, 50MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**

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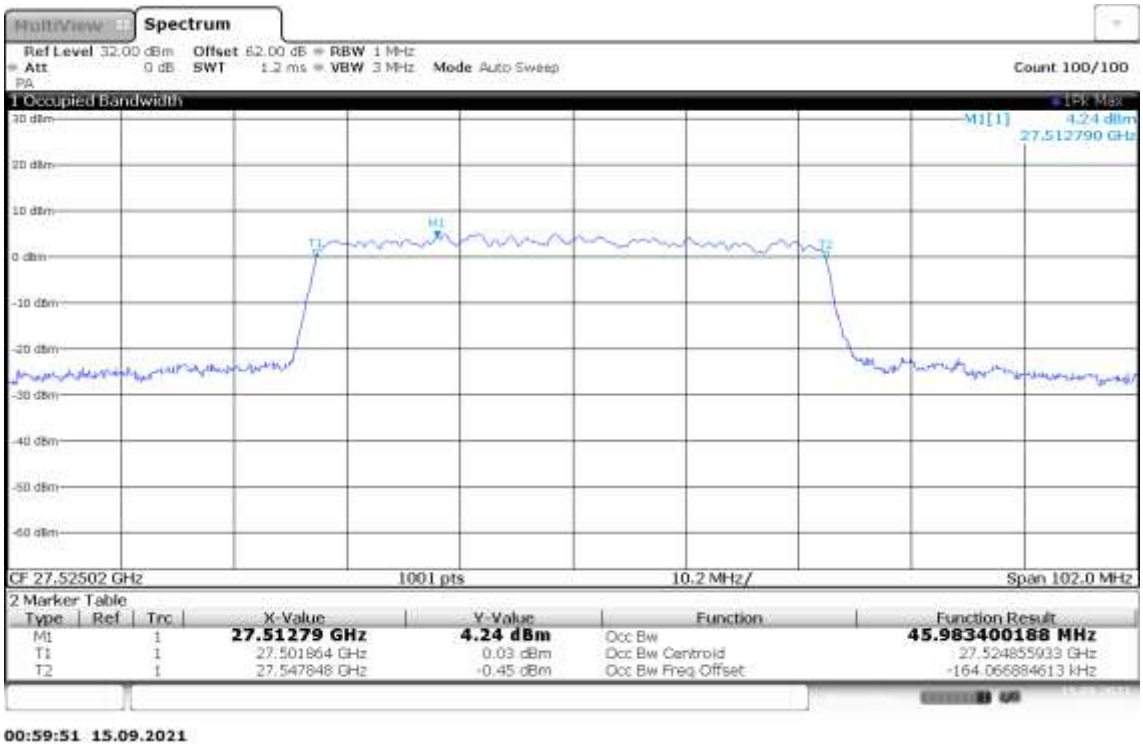
**LOW CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27525 | QPSK | 16QAM | 64QAM |
| | | / | / |

**n261, 50MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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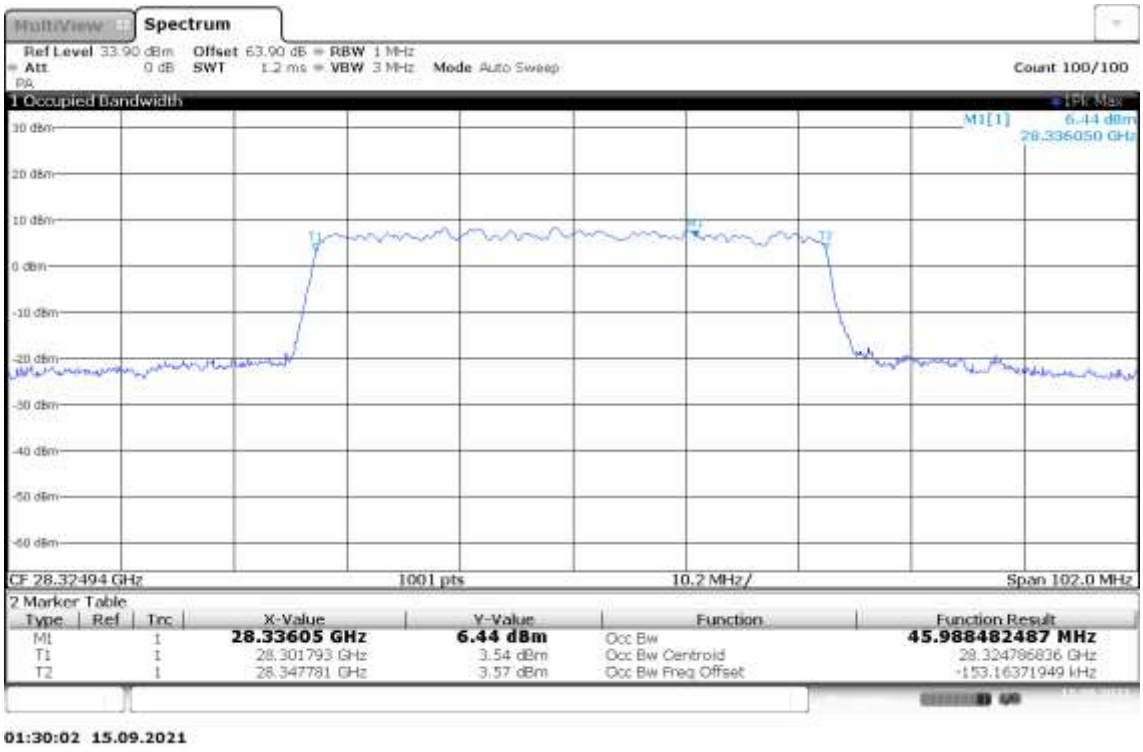
**HIGH CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 28324.92 | QPSK | 16QAM | 64QAM |
| | 45.99 | / | / |

**n261, 50MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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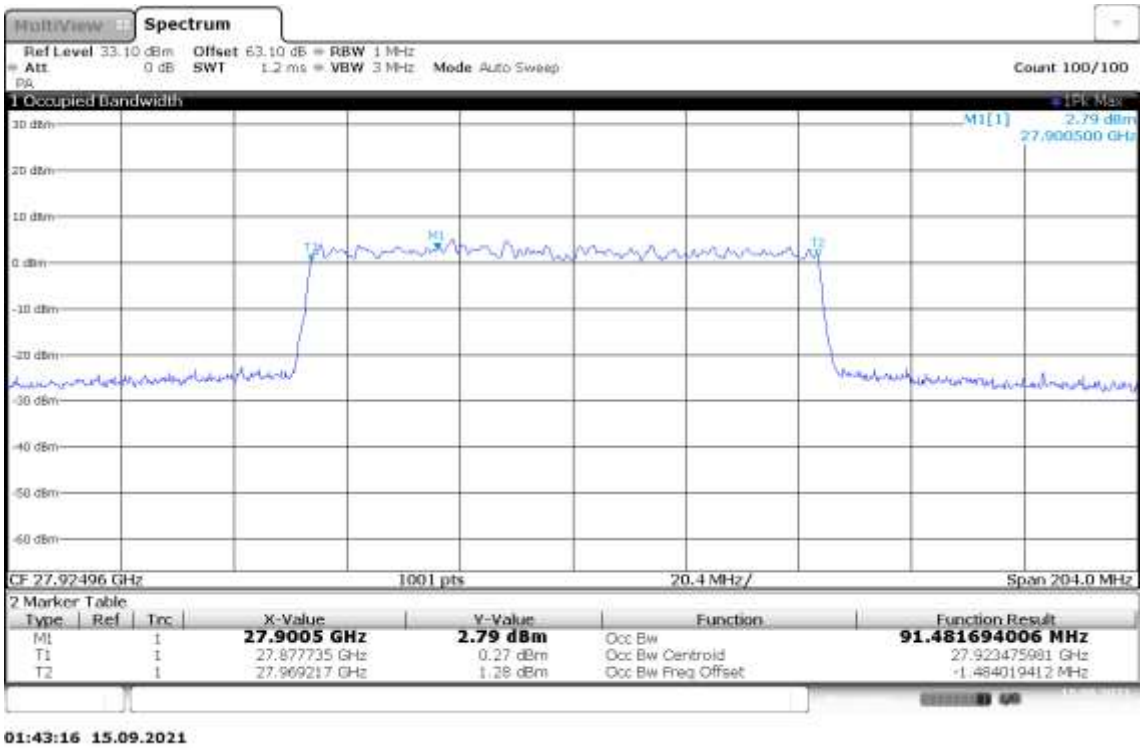
**n261, 100MHz (99%)**

**MID CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27924.96 | QPSK | 16QAM | 64QAM |
| | 91.48 | / | / |

**n261, 100MHz Bandwidth, MID CHANNEL, QPSK (99% BW)**

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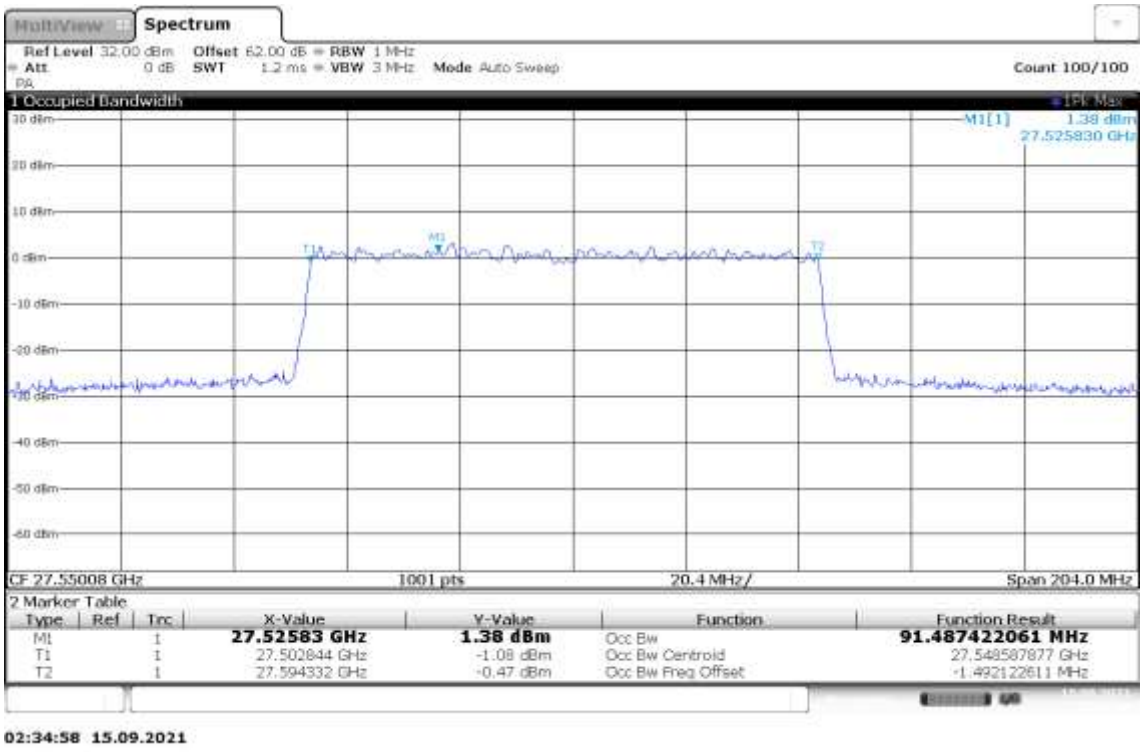
**LOW CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 27550.08 | QPSK | 16QAM | 64QAM |
| | 91.49 | / | / |

**n261, 100MHz Bandwidth, LOW CHANNEL, QPSK (99% BW)**

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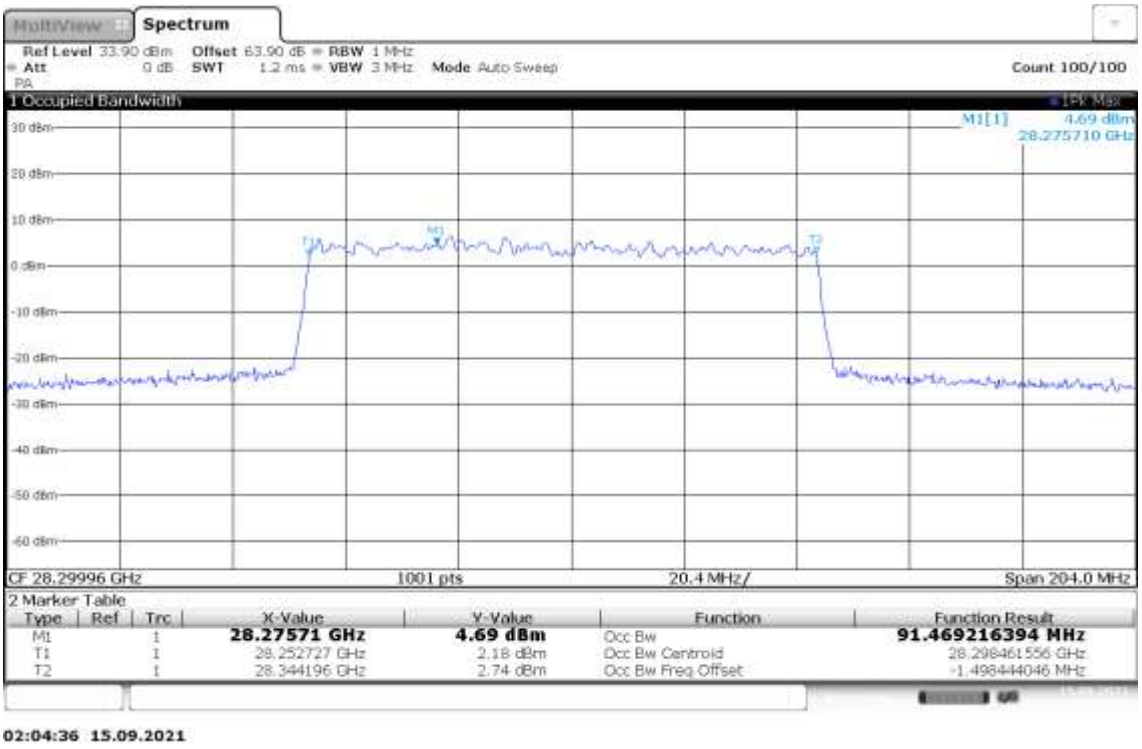
**HIGH CHANNEL**

| Module1, PUSCH DFT | | | |
|---|---|---|---|
| Frequency(MHz) | Occupied Bandwidth (99%) (MHz) | | |
| 28299.96 | QPSK | 16QAM | 64QAM |
| | 91.47 | / | / |

**n261, 100MHz Bandwidth, HIGH CHANNEL, QPSK (99% BW)**

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## A.5 Band Edge Compliance

### A.5.1 Measurement limit

Part 30.203 the total radiated power of any emission outside a licensee's frequency block shall be −13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be −5 dBm/MHz or lower.

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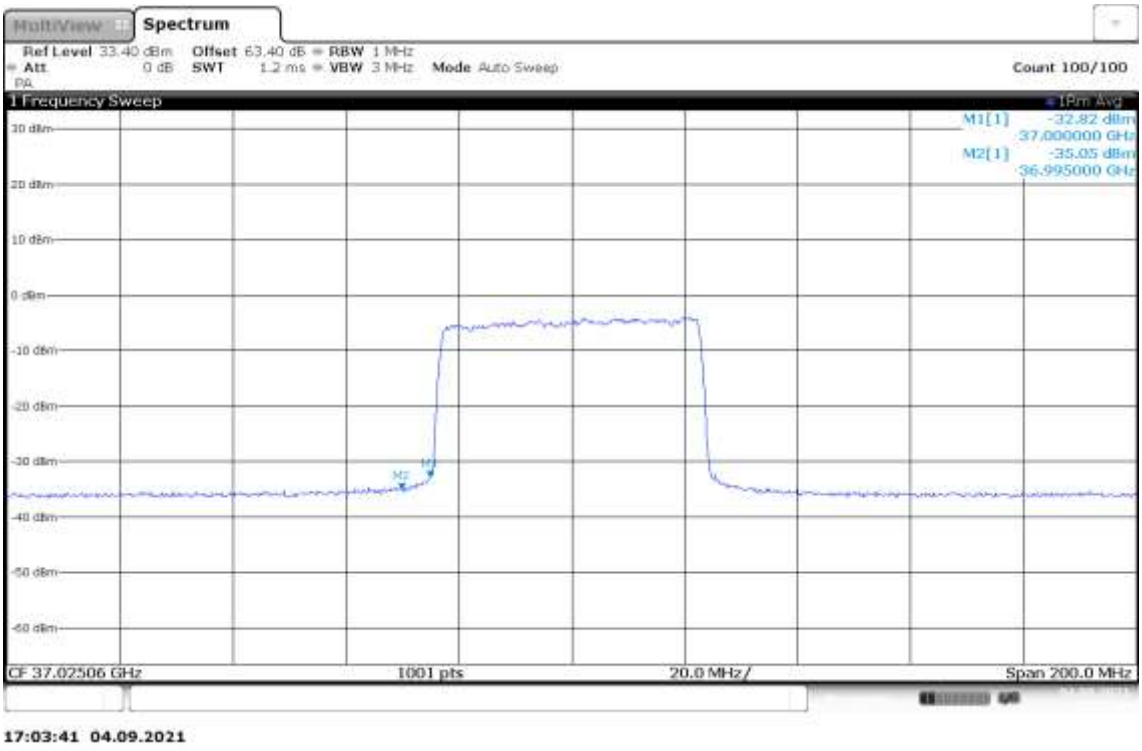
**A.5.2 Measurement result**

**Only the worst case result is given below**

**n260**

**LOW BAND EDGE BLOCK-50MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | 64QAM | -32.82 | -5 |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | | -35.05 | -13 |

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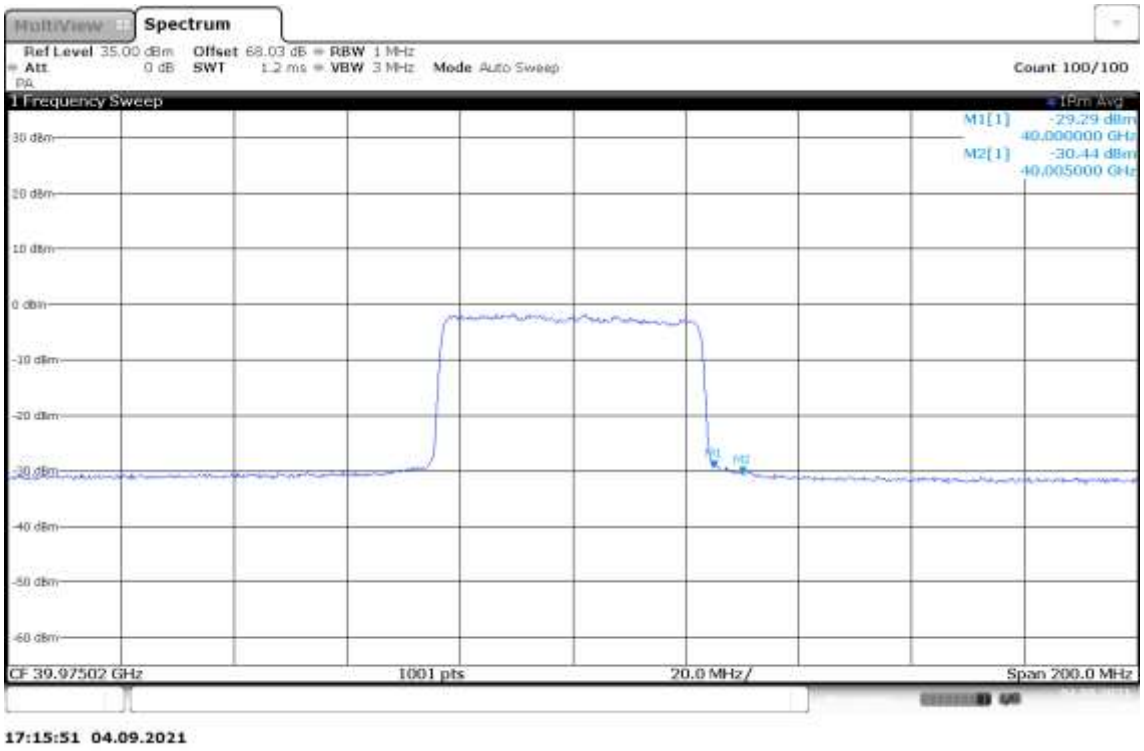
**HIGH BAND EDGE BLOCK-50MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 39975 | HIGH | 120kHz | 64QAM | -29.29 | -5 |
| n260 | 50MHz | 39975 | HIGH | 120kHz | | -30.44 | -13 |

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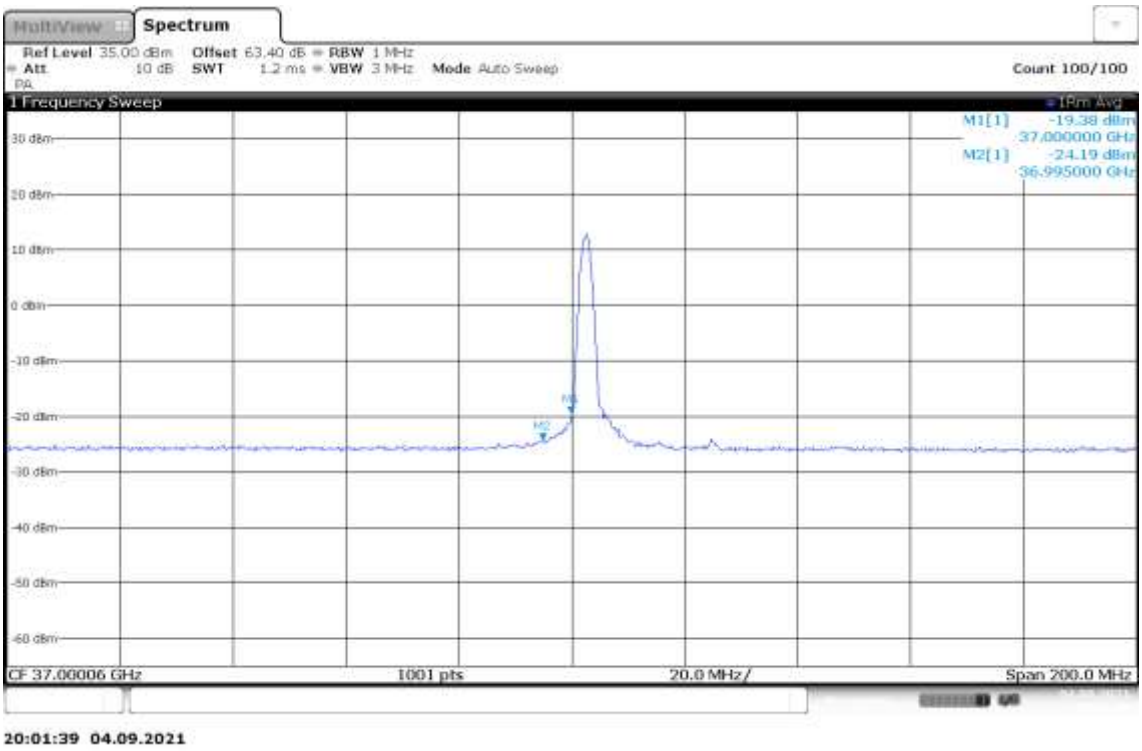
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | QPSK | -19.38 | -5 |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | | -24.19 | -13 |

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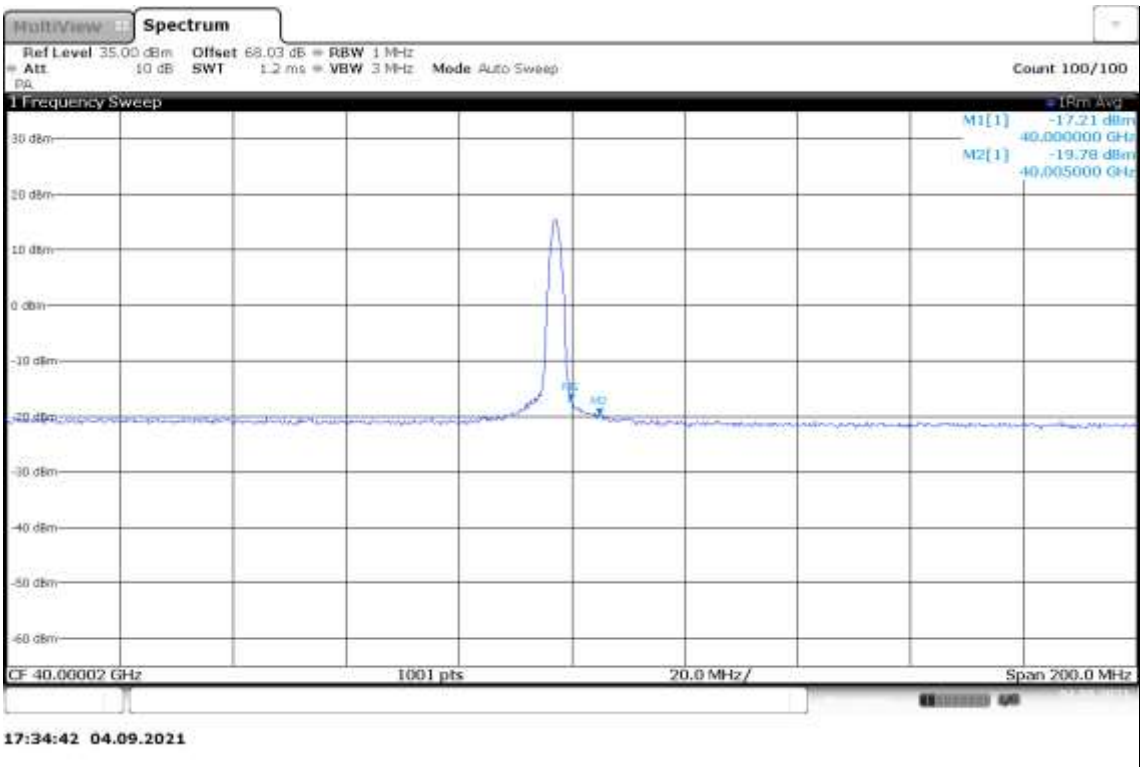
**HIGH BAND EDGE BLOCK-50MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 39975 | HIGH | 120kHz | QPSK | -17.21 | -5 |
| n260 | 50MHz | 39975 | HIGH | 120kHz | | -19.78 | -13 |

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**LOW BAND EDGE BLOCK-100MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 37050 | LOW | 120kHz | 64QAM | -33.42 | -5 |
| n260 | 100MHz | 37050 | LOW | 120kHz | | -35.28 | -13 |


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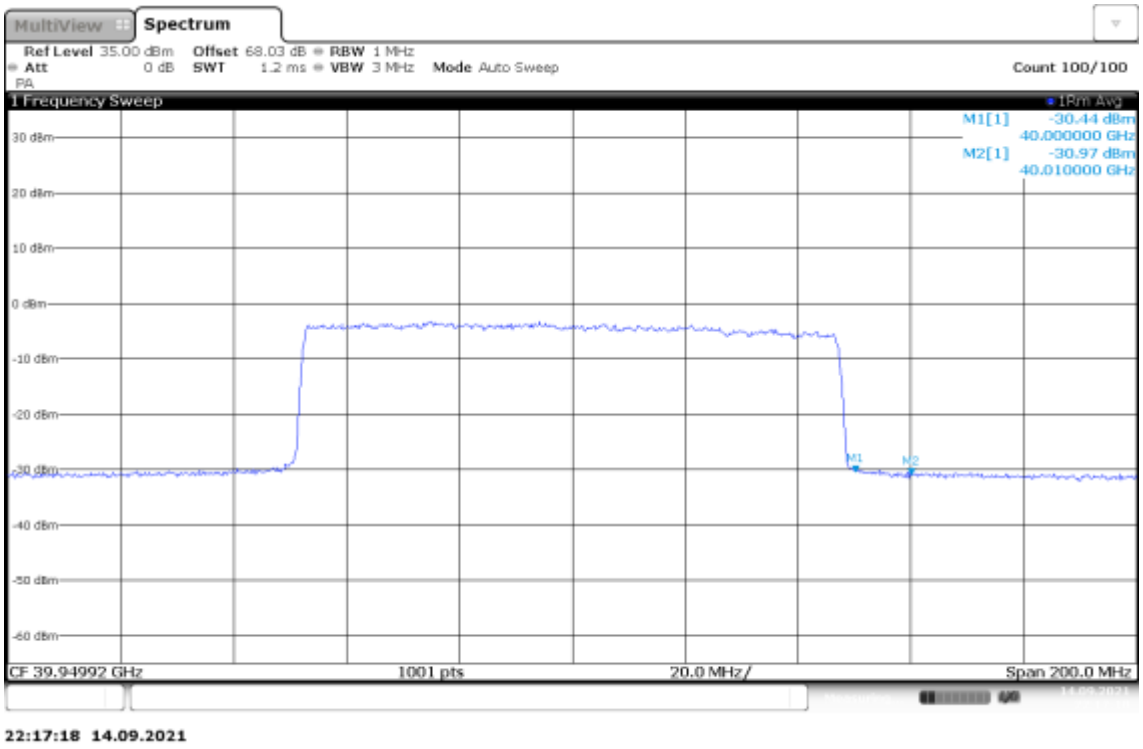
**HIGH BAND EDGE BLOCK-100MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | 64QAM | -30.44 | -5 |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | | -30.97 | -13 |

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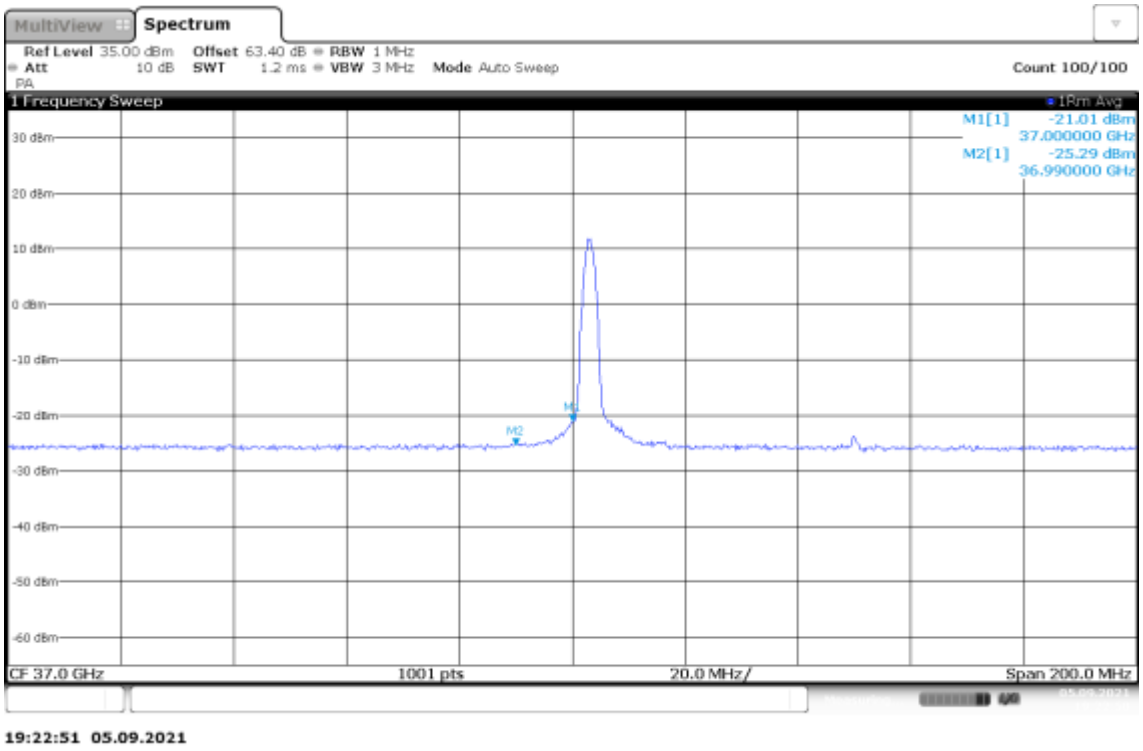
**LOW BAND EDGE BLOCK-100MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 37050 | LOW | 120kHz | QPSK | -21.01 | -5 |
| n260 | 100MHz | 37050 | LOW | 120kHz | | -25.29 | -13 |

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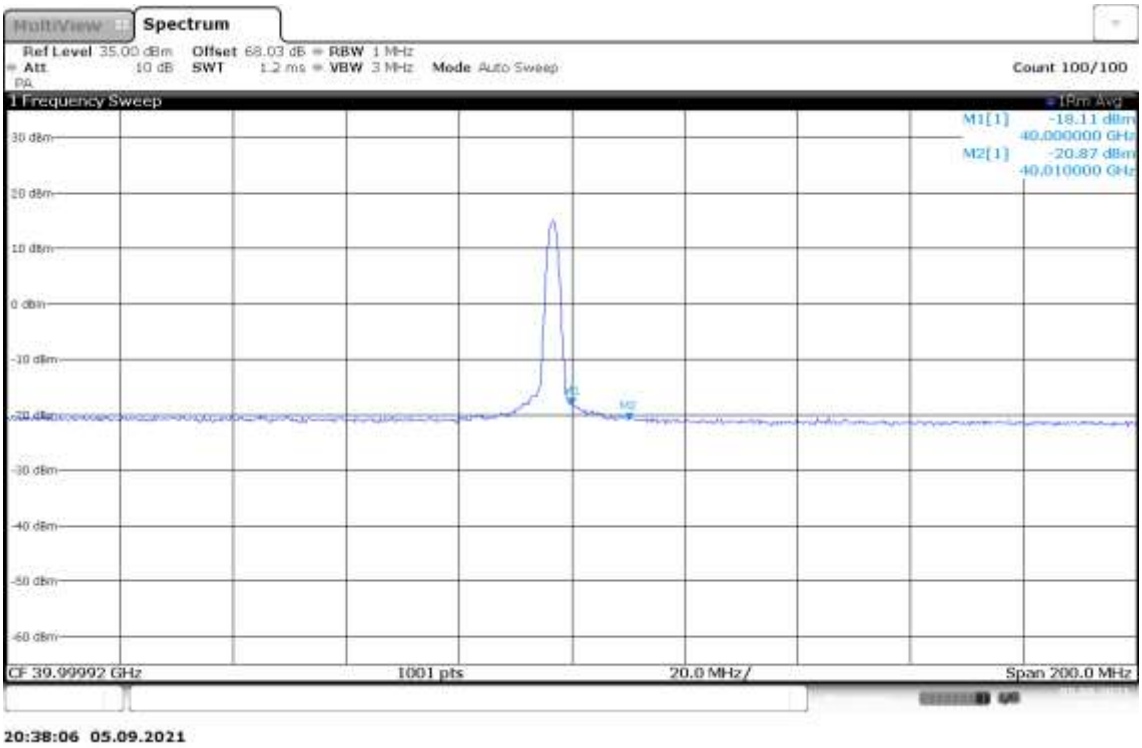
**HIGH BAND EDGE BLOCK-100MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | QPSK | -18.11 | -5 |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | | -20.87 | -13 |

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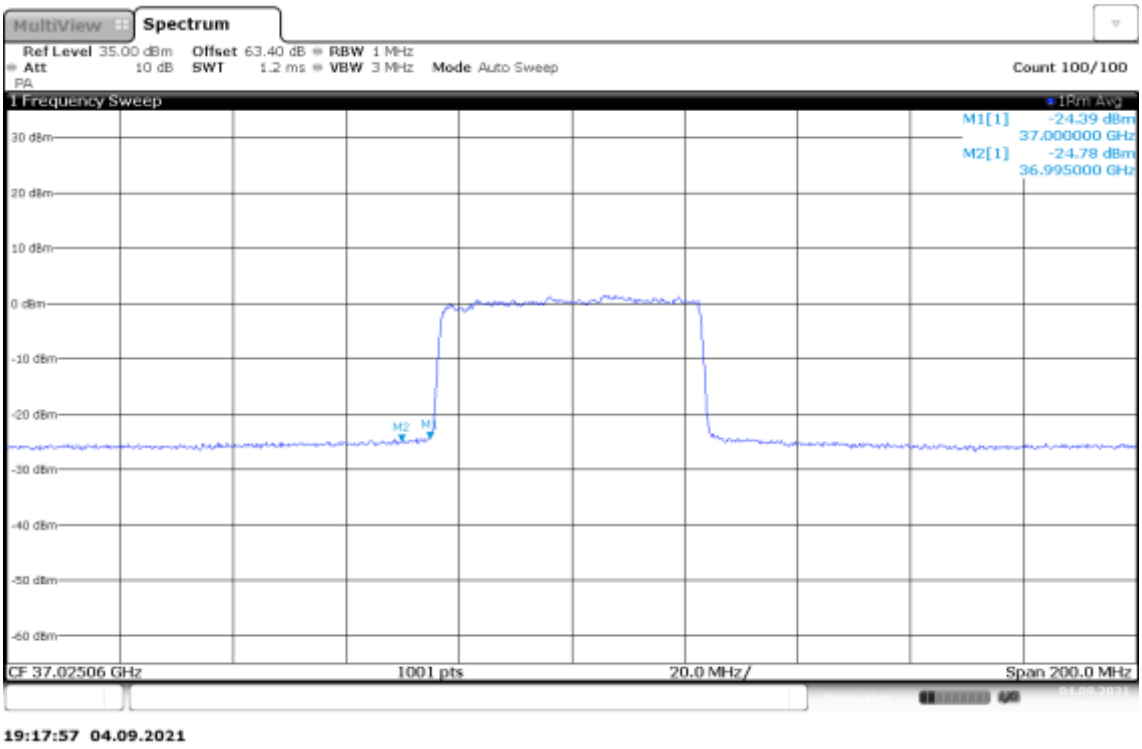
**LOW BAND EDGE BLOCK-50MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | QPSK | -24.39 | -5 |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | | -24.78 | -13 |

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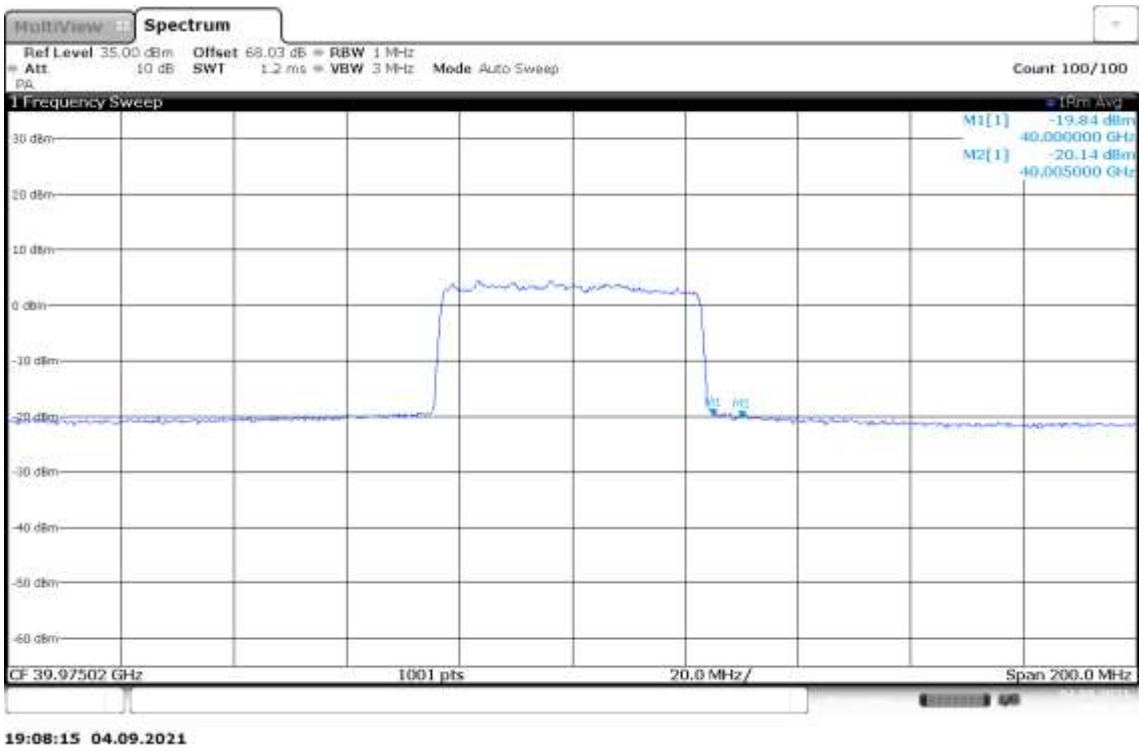
**HIGH BAND EDGE BLOCK-50MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 39975 | HIGH | 120kHz | QPSK | -19.84 | -5 |
| n260 | 50MHz | 39975 | HIGH | 120kHz | | -20.14 | -13 |

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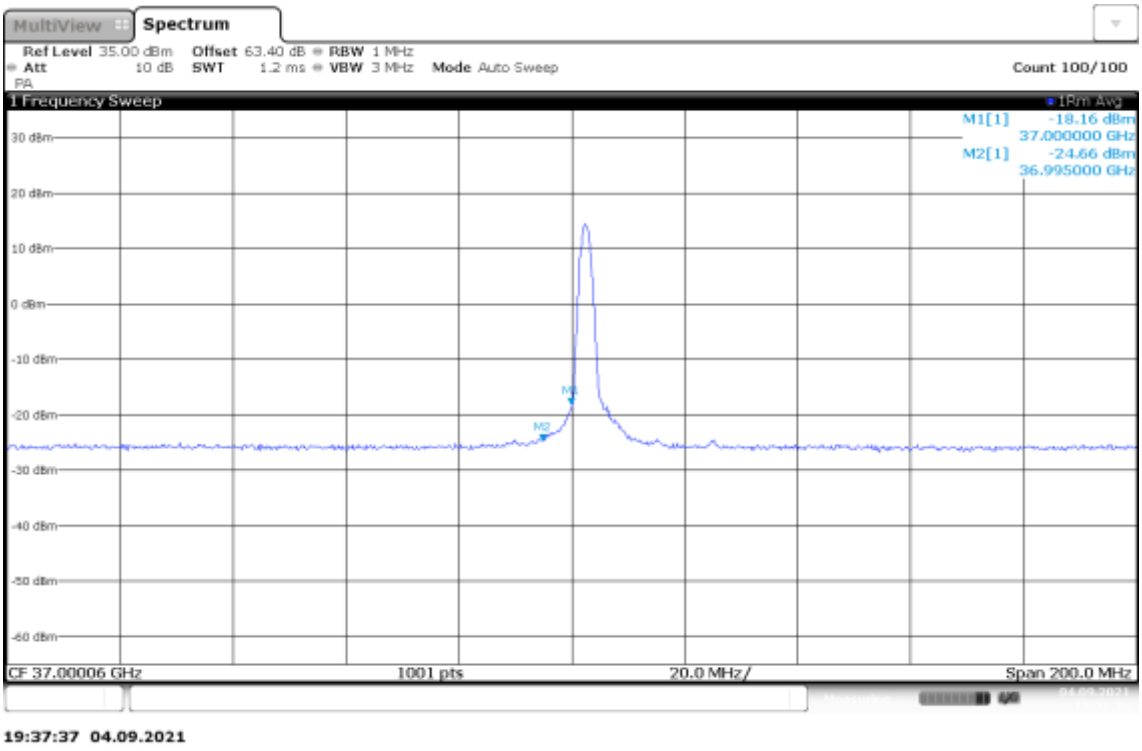
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | QPSK | -18.16 | -5 |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | | -24.66 | -13 |

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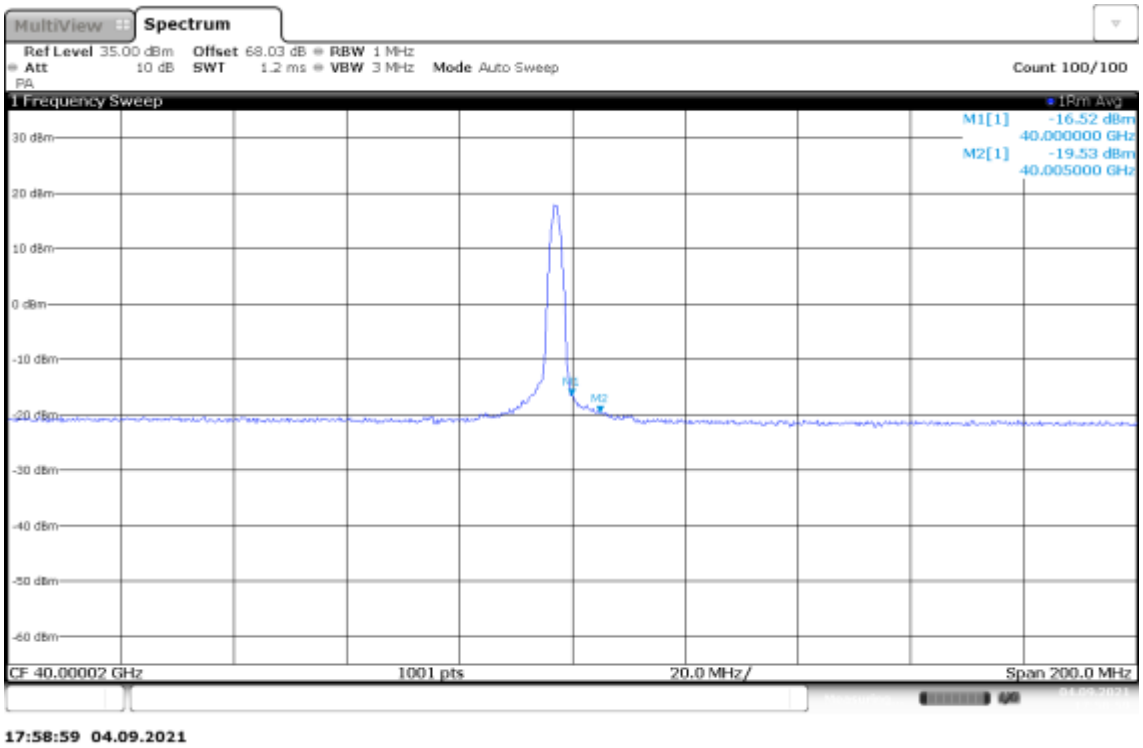
**HIGH BAND EDGE BLOCK-50MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 39975 | HIGH | 120kHz | QPSK | -16.52 | -5 |
| n260 | 50MHz | 39975 | HIGH | 120kHz | | -19.53 | -13 |

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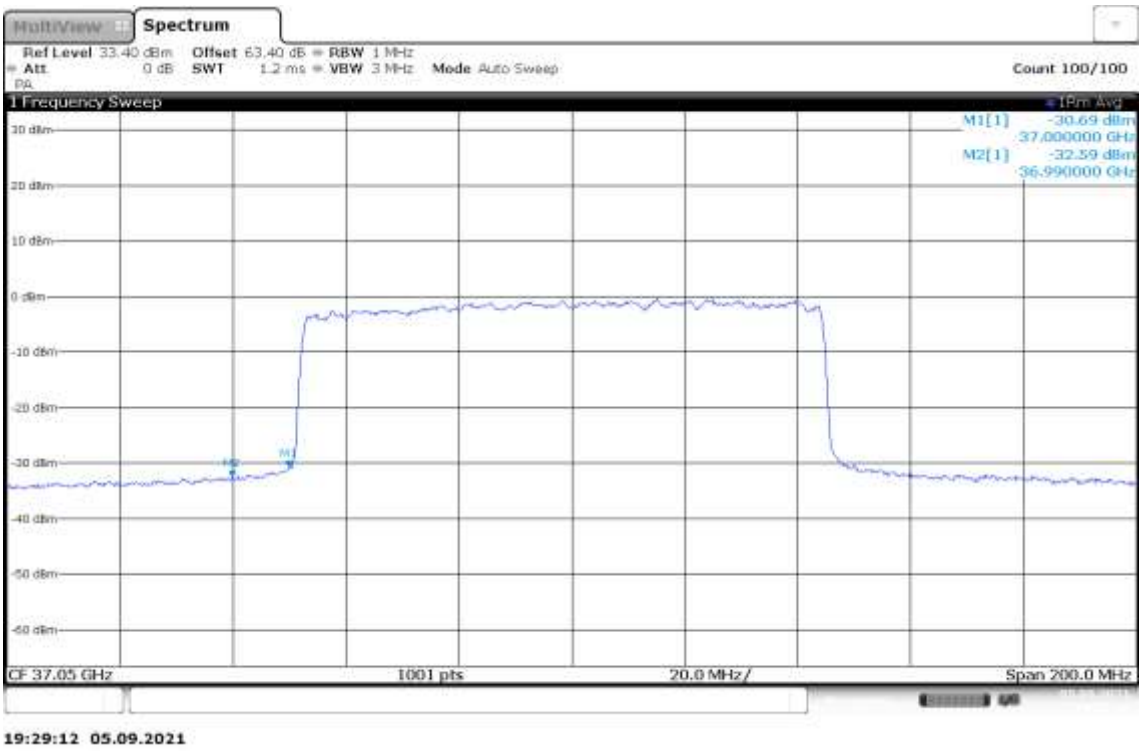
**LOW BAND EDGE BLOCK-100MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 37050 | LOW | 120kHz | QPSK | -30.69 | -5 |
| n260 | 100MHz | 37050 | LOW | 120kHz | | -32.59 | -13 |

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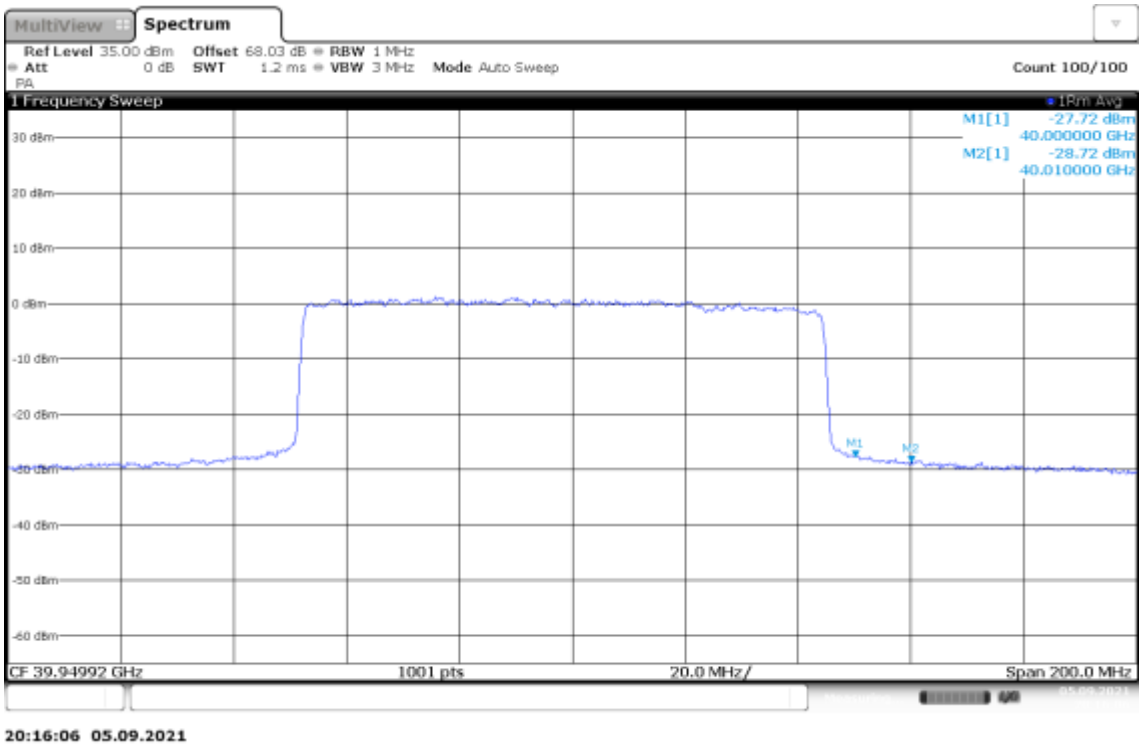
**HIGH BAND EDGE BLOCK-100MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | QPSK | -27.72 | -5 |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | | -28.72 | -13 |




20:16:06 05.09.2021

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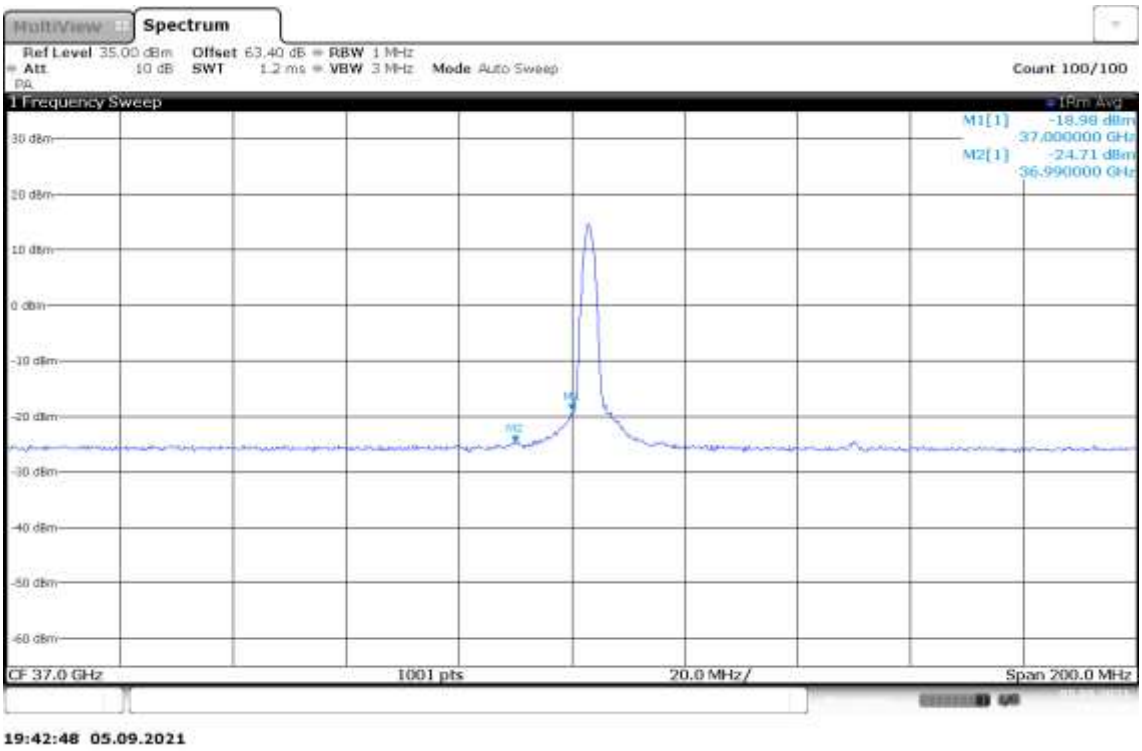
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 37050 | LOW | 120kHz | QPSK | -18.98 | -5 |
| n260 | 100MHz | 37050 | LOW | 120kHz | | -24.71 | -13 |

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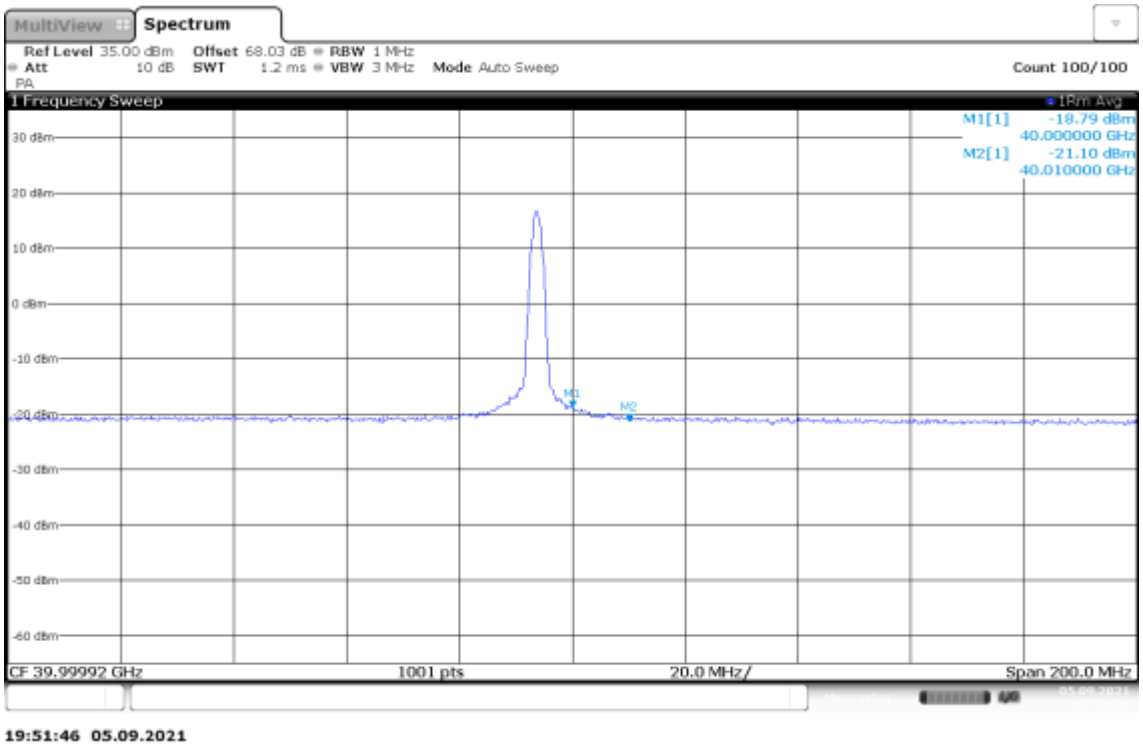
**HIGH BAND EDGE BLOCK-100MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | QPSK | -18.79 | -5 |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | | -21.10 | -13 |

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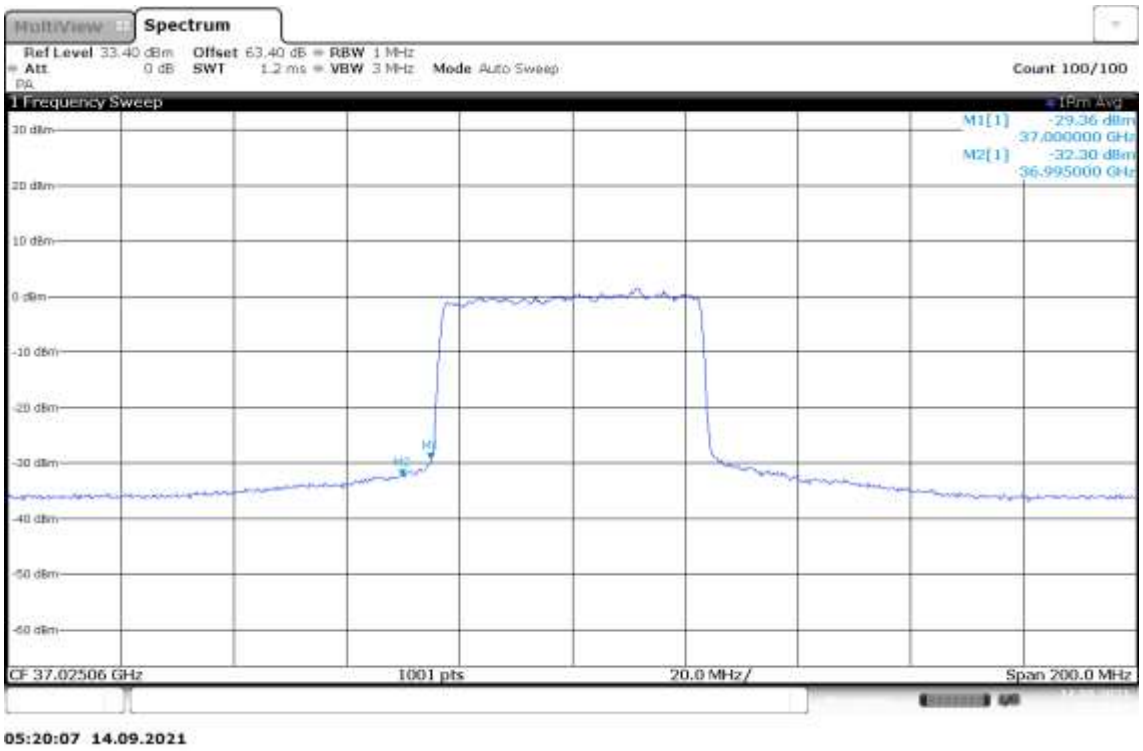
**LOW BAND EDGE BLOCK-50MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | QPSK | -29.36 | -5 |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | | -32.30 | -13 |

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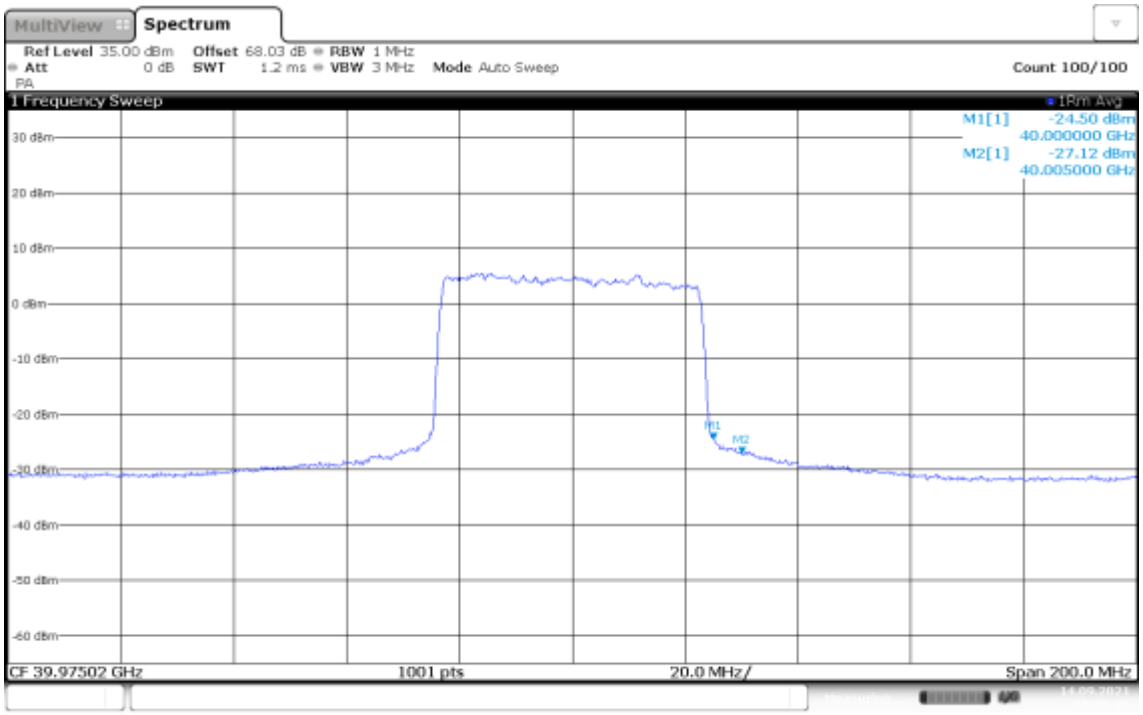
**HIGH BAND EDGE BLOCK-50MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 39975 | LOW | 120kHz | QPSK | -24.50 | -5 |
| n260 | 50MHz | 39975 | LOW | 120kHz | | -27.12 | -13 |

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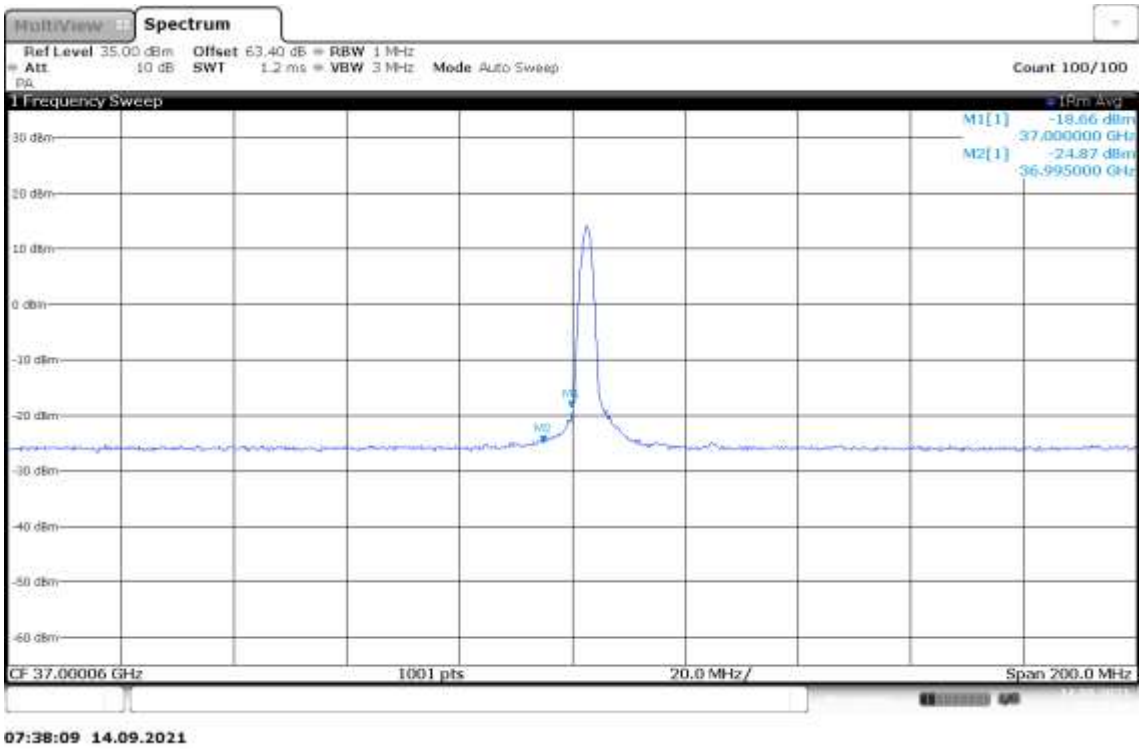
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | QPSK | -18.66 | -5 |
| n260 | 50MHz | 37025.04 | LOW | 120kHz | | -24.87 | -13 |

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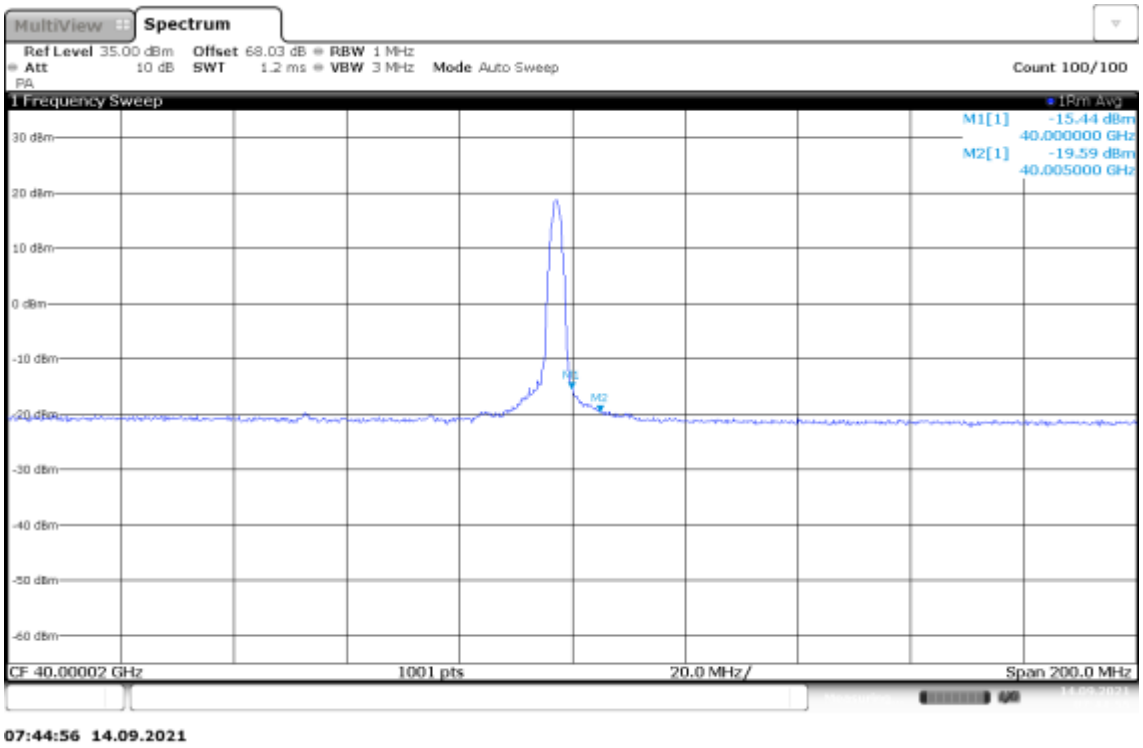
**HIGH BAND EDGE BLOCK-50MHz-1RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 50MHz | 39975 | LOW | 120kHz | QPSK | -15.44 | -5 |
| n260 | 50MHz | 39975 | LOW | 120kHz | | -19.59 | -13 |

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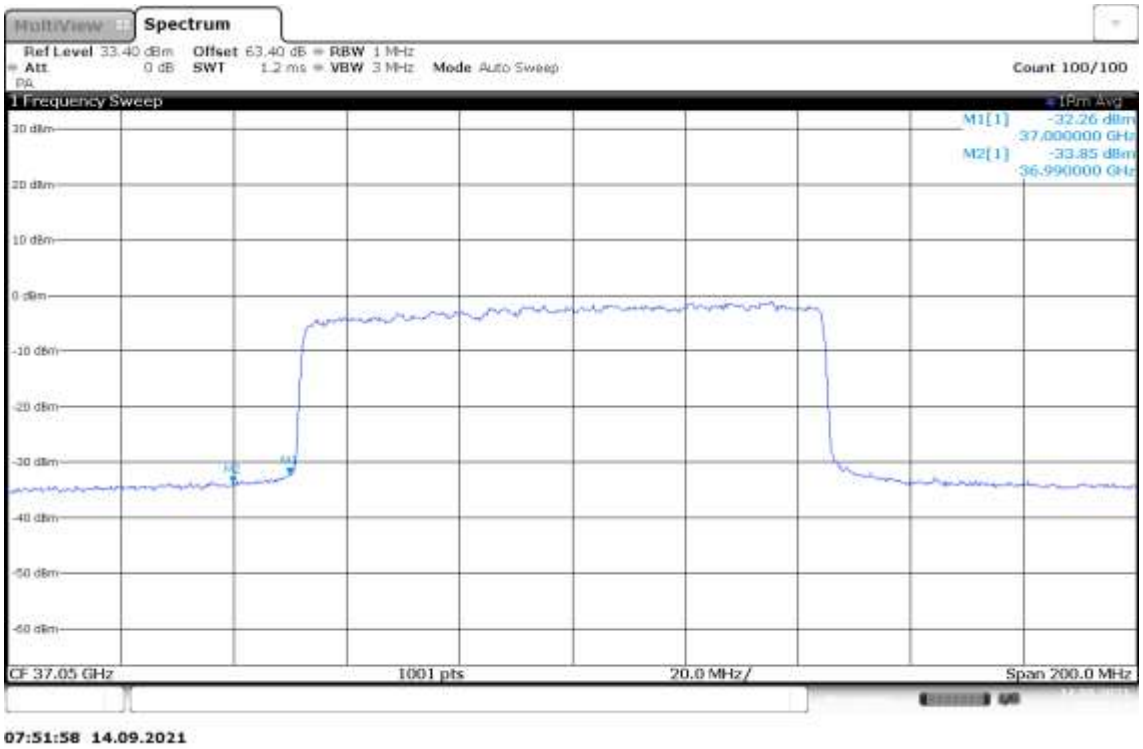
**LOW BAND EDGE BLOCK-100MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 37050 | LOW | 120kHz | QPSK | -32.29 | -5 |
| n260 | 100MHz | 37050 | LOW | 120kHz | | -33.85 | -13 |

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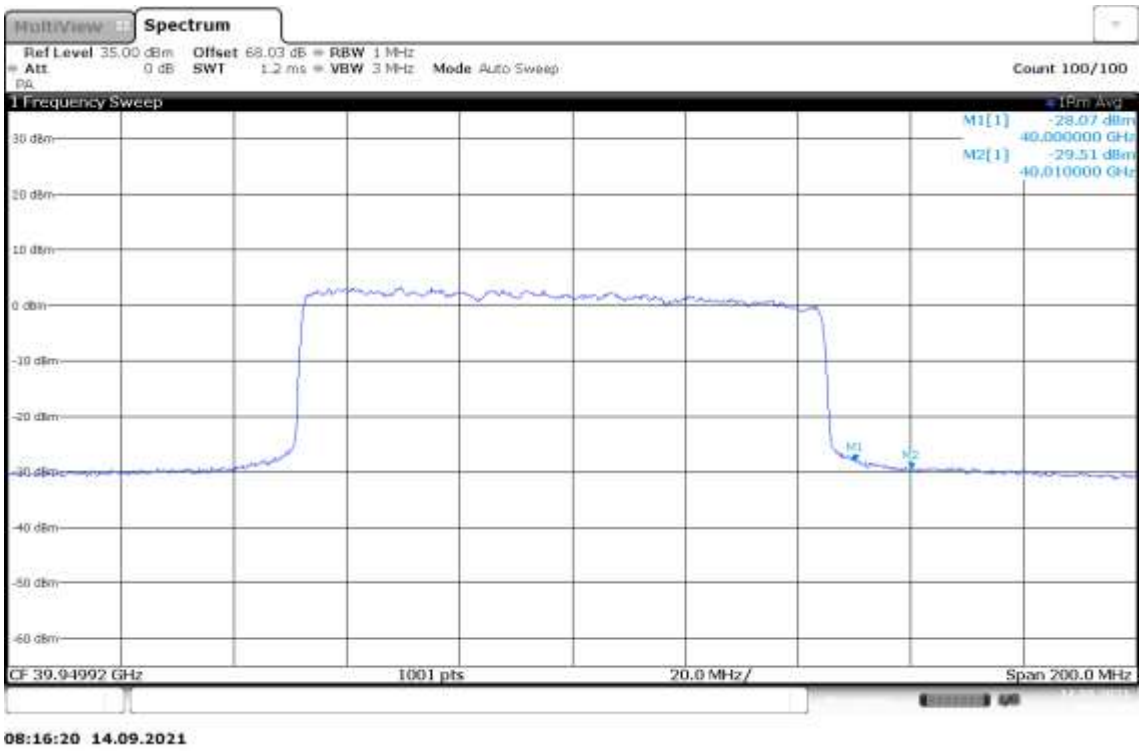
**HIGH BAND EDGE BLOCK-100MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | QPSK | -28.07 | -5 |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | | -29.51 | -13 |

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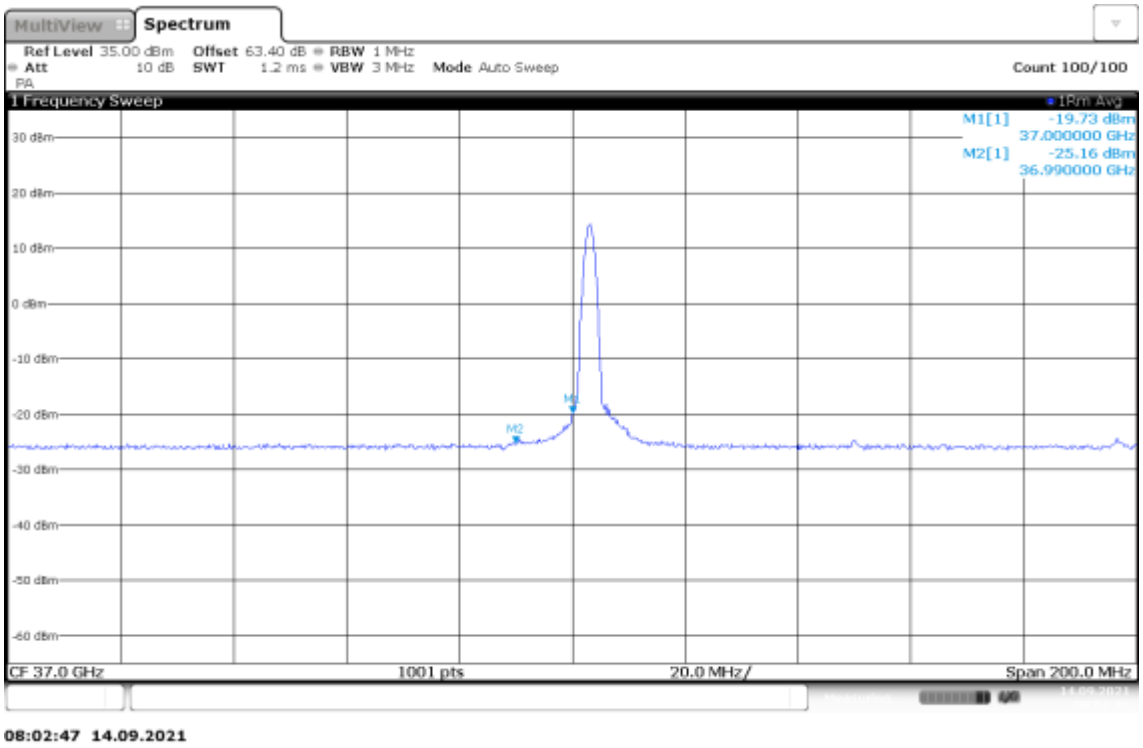
**LOW BAND EDGE BLOCK-100MHz-1RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 37050 | LOW | 120kHz | QPSK | -19.73 | -5 |
| n260 | 100MHz | 37050 | LOW | 120kHz | | -25.16 | -13 |

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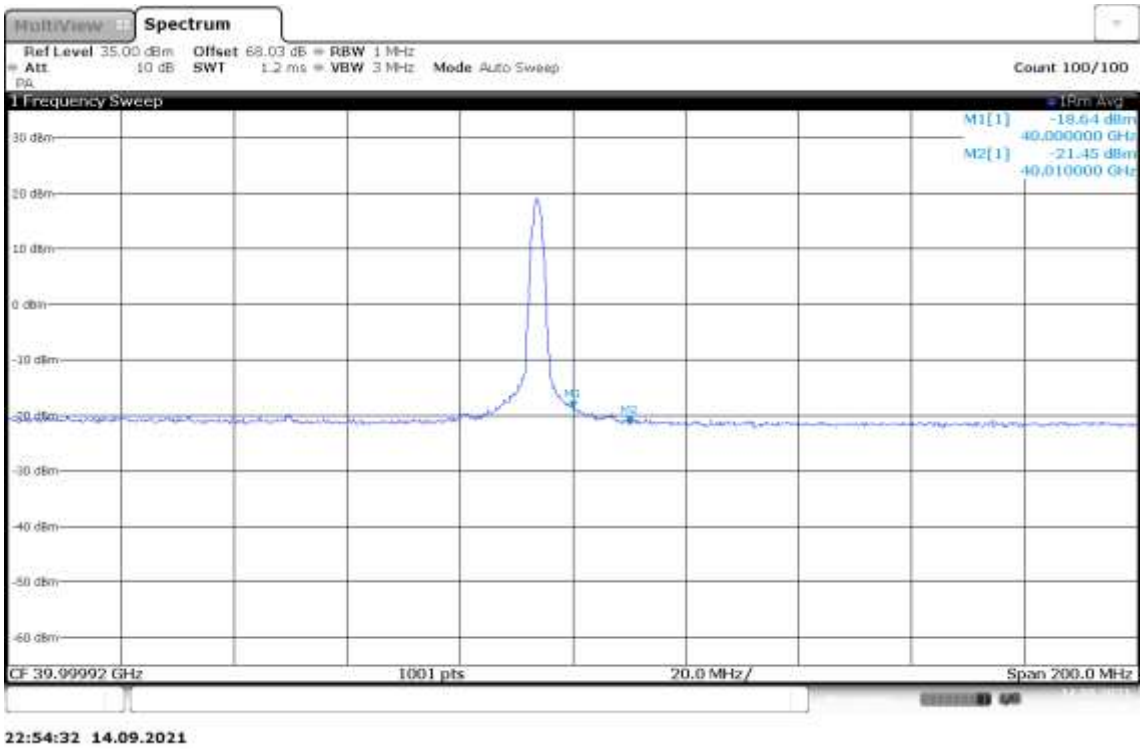
**HIGH BAND EDGE BLOCK-100MHz-11RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | QPSK | -18.64 | -5 |
| n260 | 100MHz | 39949.92 | HIGH | 120kHz | | -21.45 | -13 |

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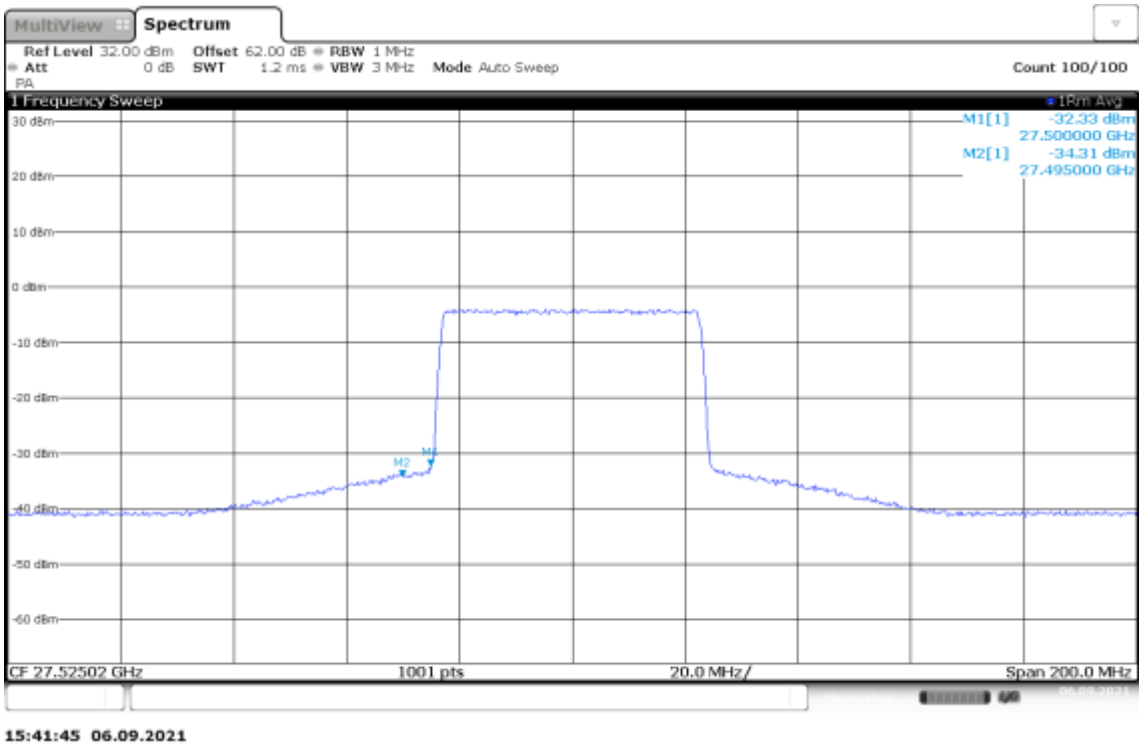
**n261**

**LOW BAND EDGE BLOCK-50MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 27525 | LOW | 120kHz | QPSK | -32.33 | -5 |
| n261 | 50MHz | 27525 | LOW | 120kHz | | -34.31 | -13 |

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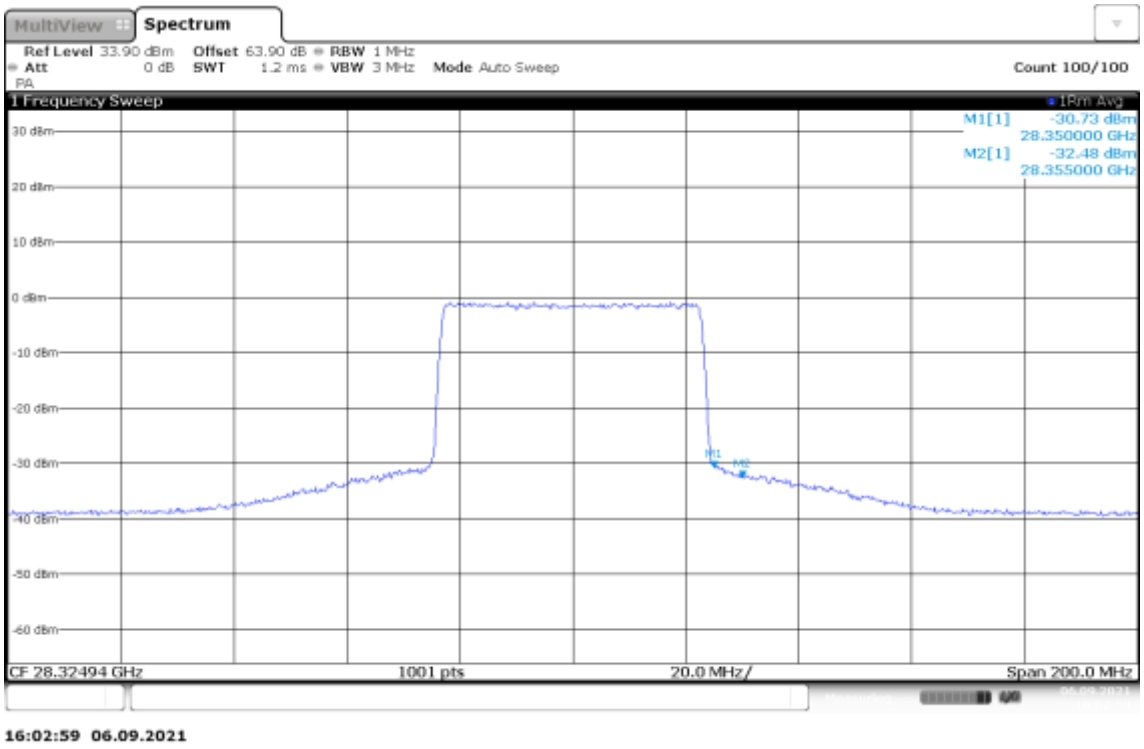
**HIGH BAND EDGE BLOCK-50MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | QPSK | -30.73 | -5 |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | | -32.48 | -13 |

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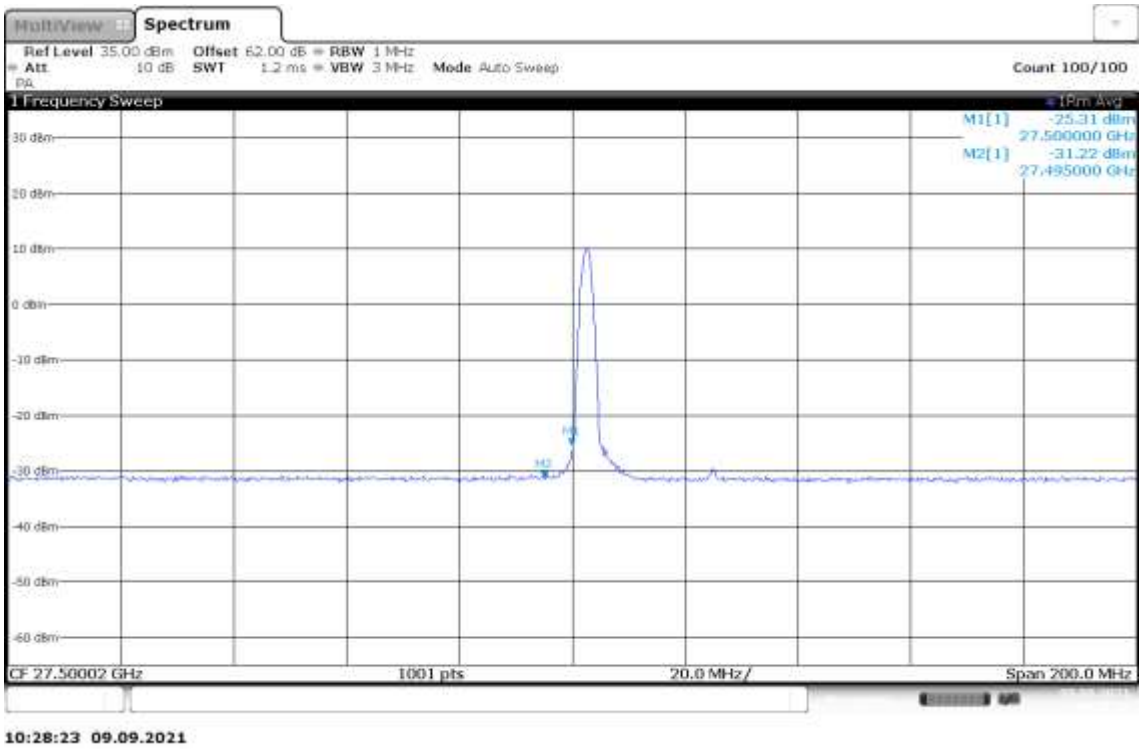
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 27525 | LOW | 120kHz | QPSK | -25.31 | -5 |
| n261 | 50MHz | 27525 | LOW | 120kHz | | -31.22 | -13 |

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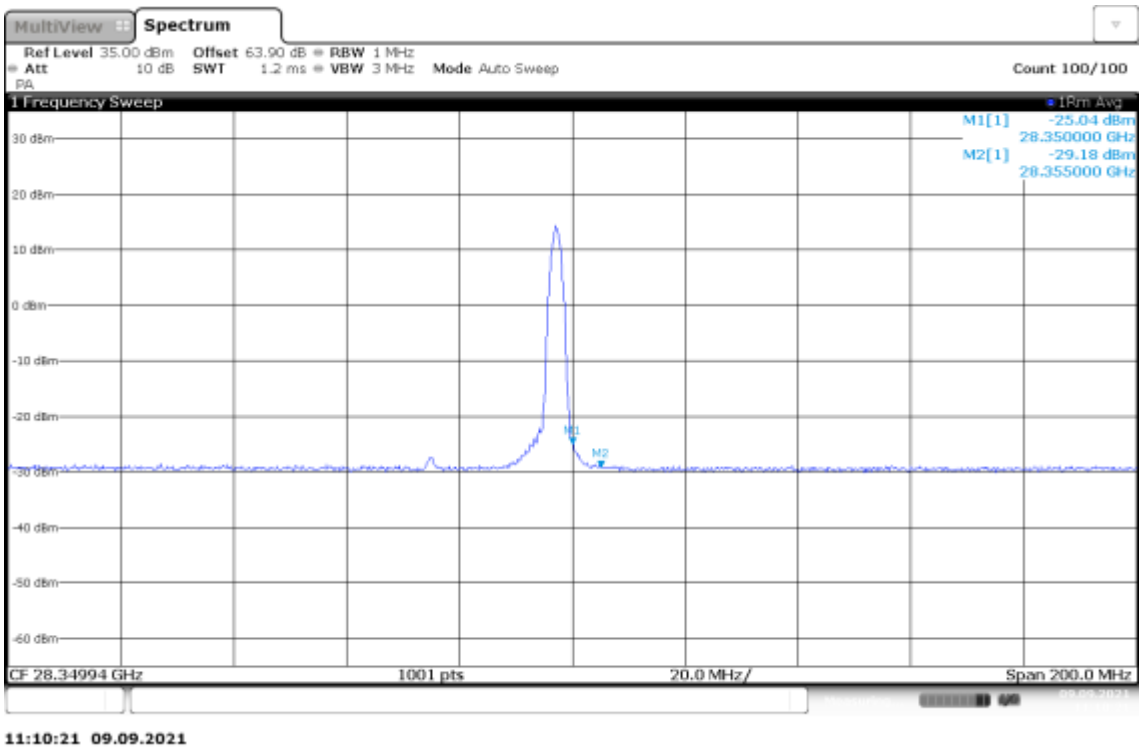
**HIGH BAND EDGE BLOCK-50MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | QPSK | -25.04 | -5 |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | | -29.18 | -13 |

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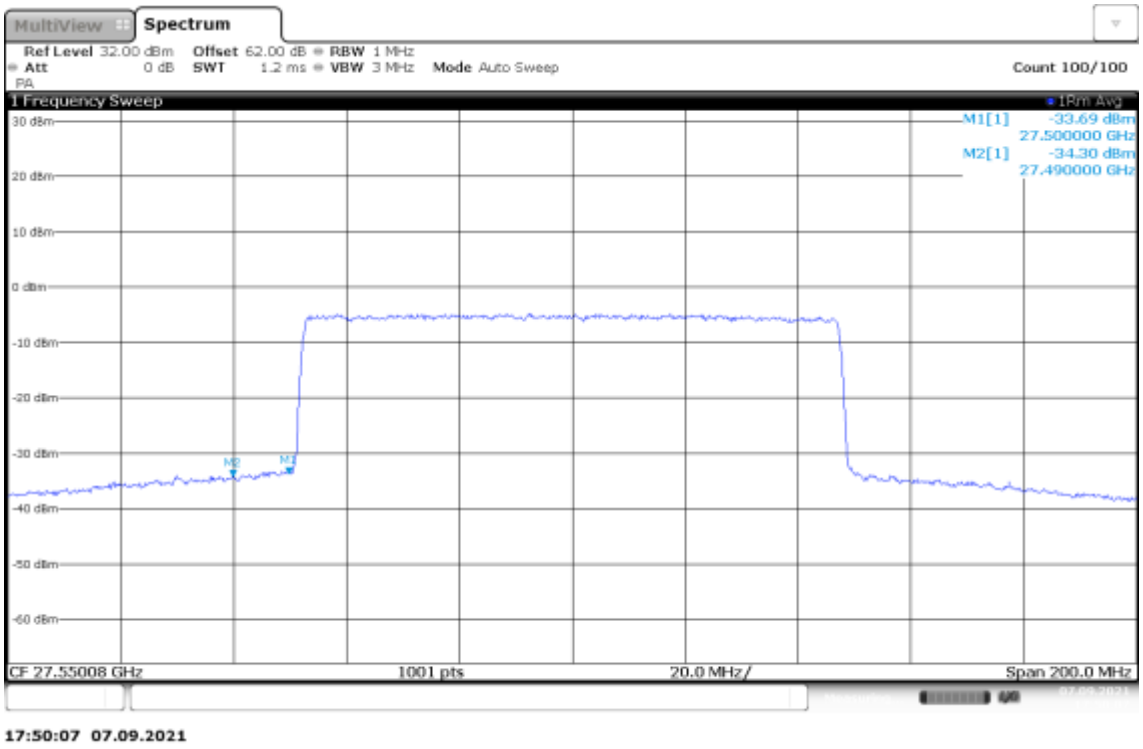
**LOW BAND EDGE BLOCK-100MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | QPSK | -33.69 | -5 |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | | -34.30 | -13 |

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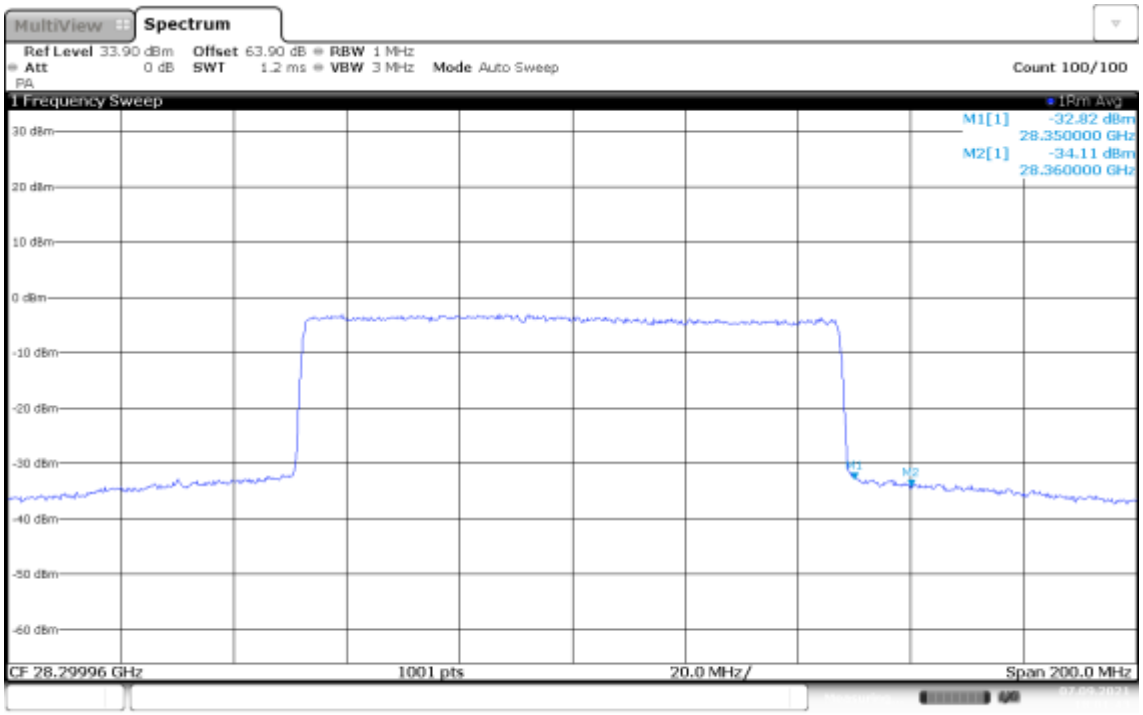
**HIGH BAND EDGE BLOCK-100MHz-100%RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | QPSK | -32.82 | -5 |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | | -34.11 | -13 |

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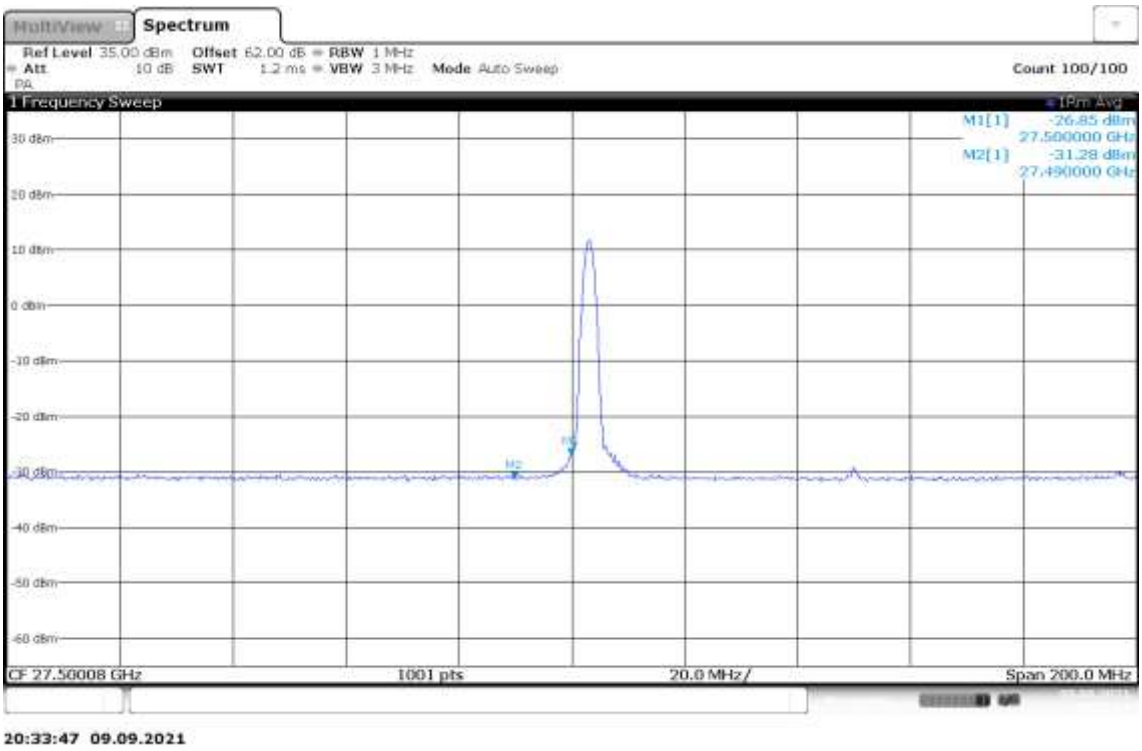
**LOW BAND EDGE BLOCK-100MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | QPSK | -26.85 | -5 |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | | -31.28 | -13 |

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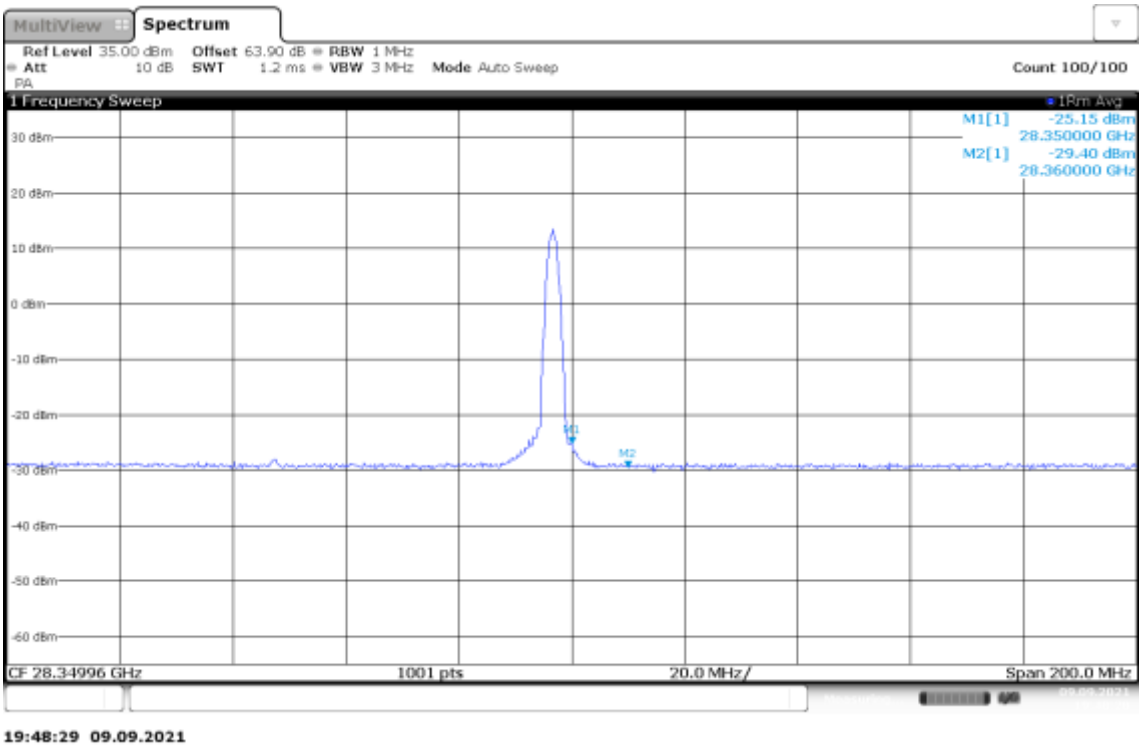
**HIGH BAND EDGE BLOCK-100MHz-1RB**

| Module0, CP-OFDM | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | QPSK | -25.15 | -5 |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | | -29.40 | -13 |

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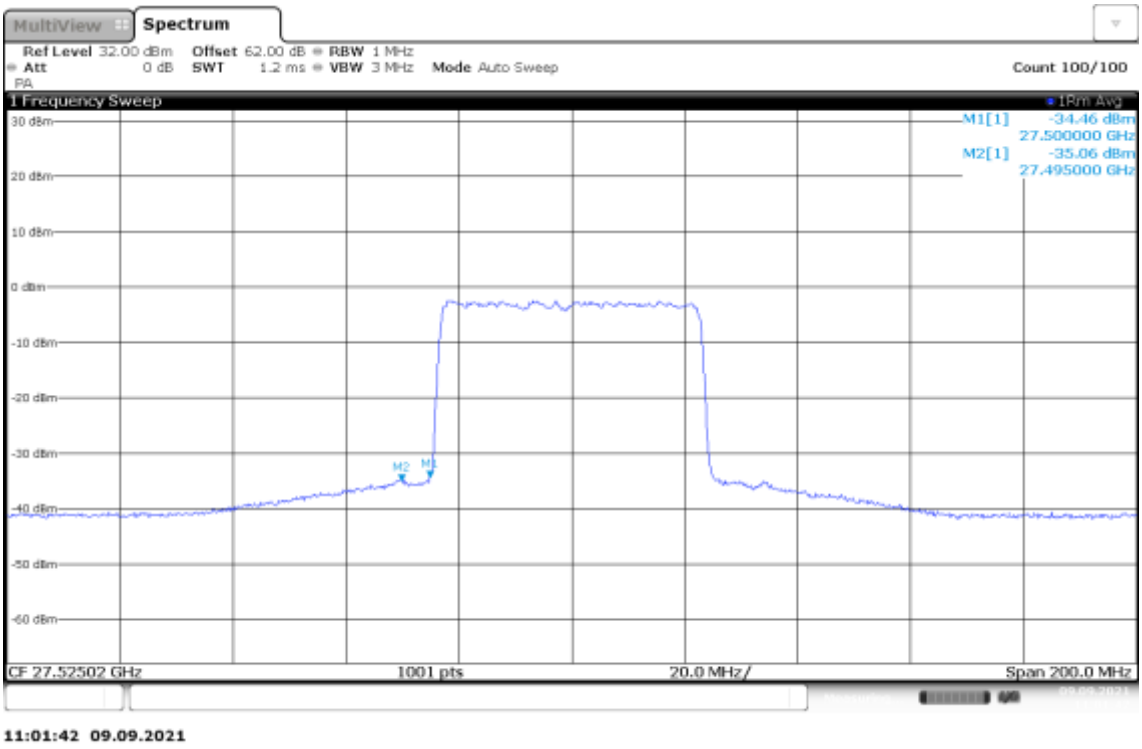
**LOW BAND EDGE BLOCK-50MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 27525 | LOW | 120kHz | 16AQM | -34.46 | -5 |
| n261 | 50MHz | 27525 | LOW | 120kHz | | -35.06 | -13 |

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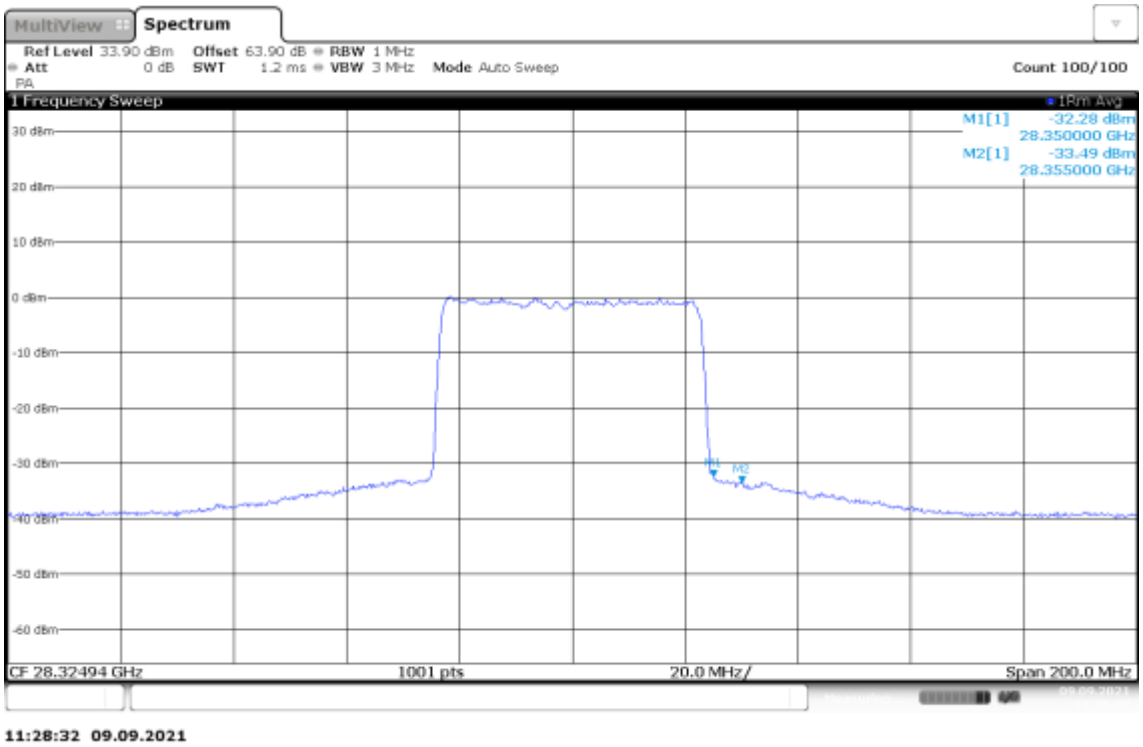
**HIGH BAND EDGE BLOCK-50MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | 16QAM | -32.28 | -5 |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | | -33.49 | -13 |

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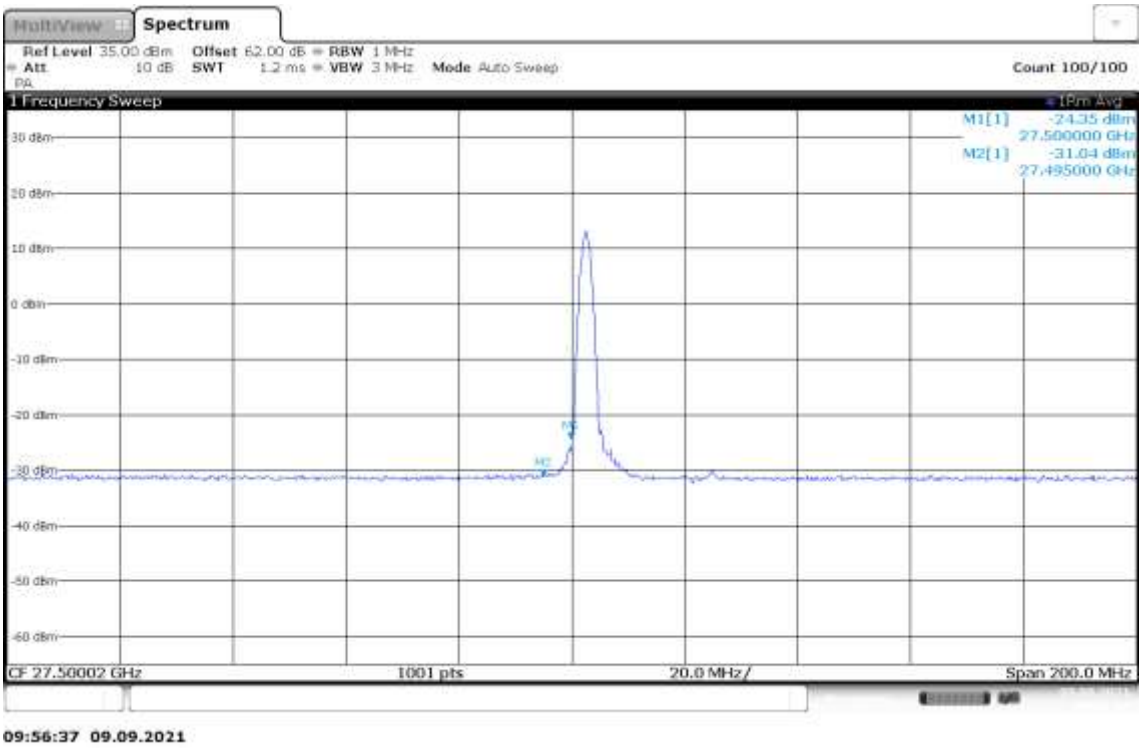
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 27525 | LOW | 120kHz | QPSK | -24.35 | -5 |
| n261 | 50MHz | 27525 | LOW | 120kHz | | -31.04 | -13 |

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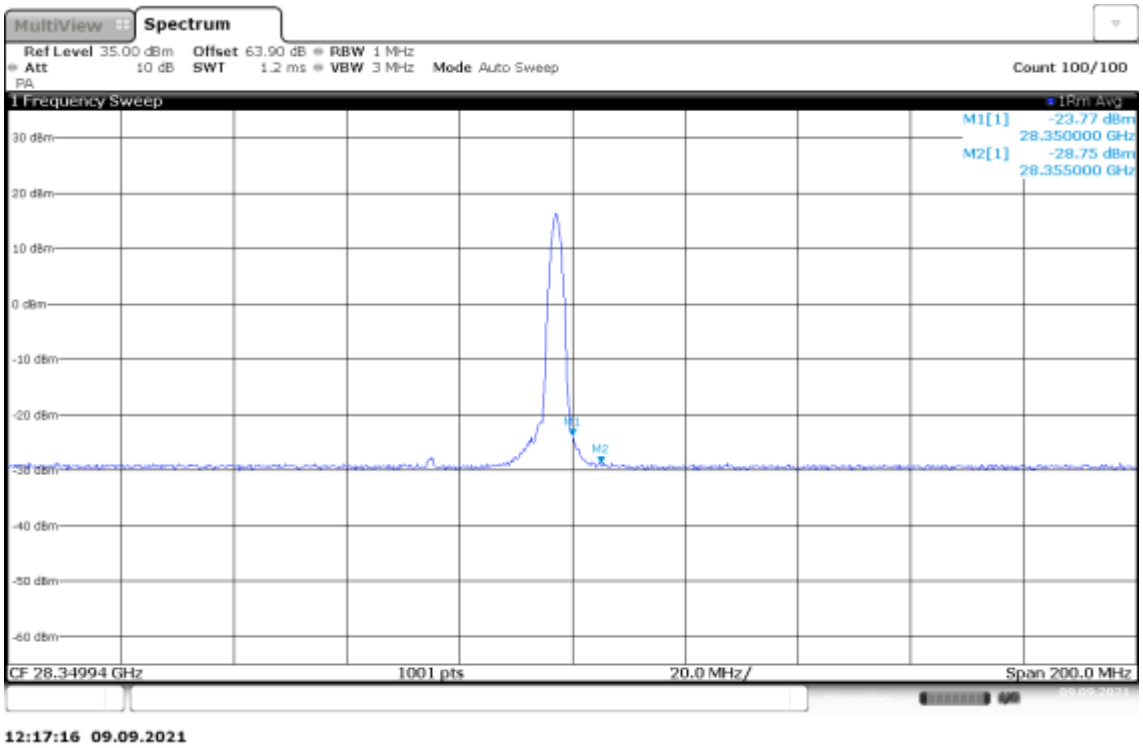
**HIGH BAND EDGE BLOCK-50MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | QPSK | -23.77 | -5 |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | | -28.75 | -13 |

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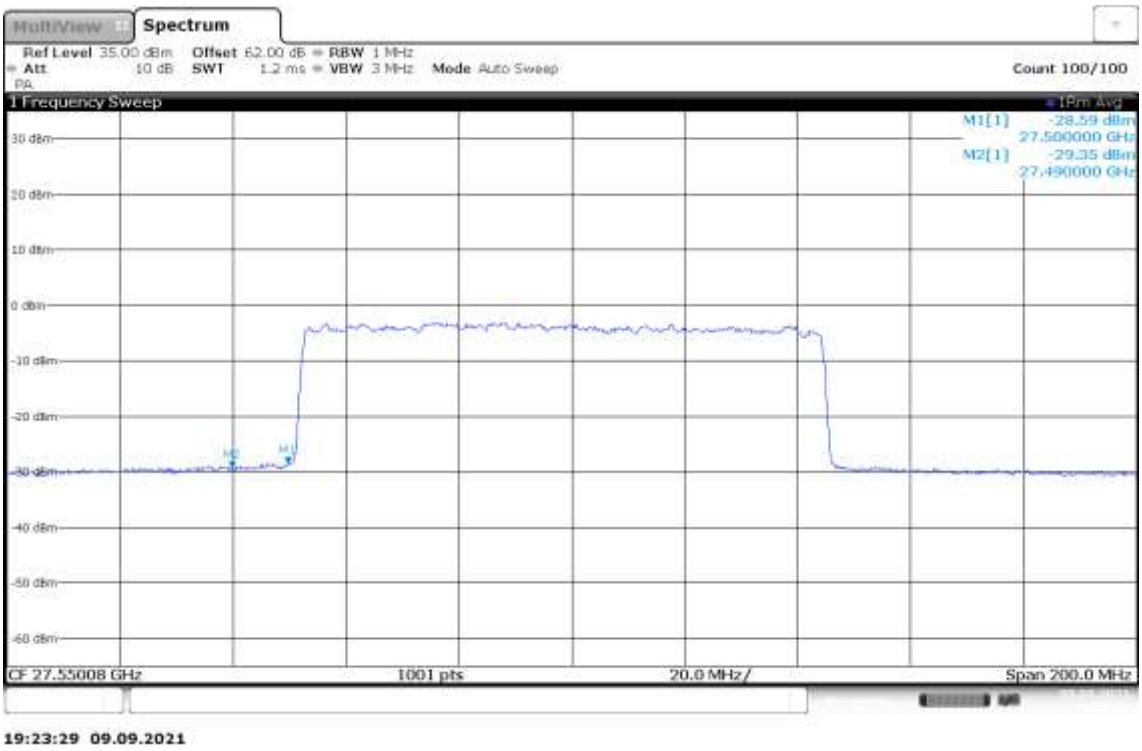
**LOW BAND EDGE BLOCK-100MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | QPSK | -28.59 | -5 |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | | -29.35 | -13 |

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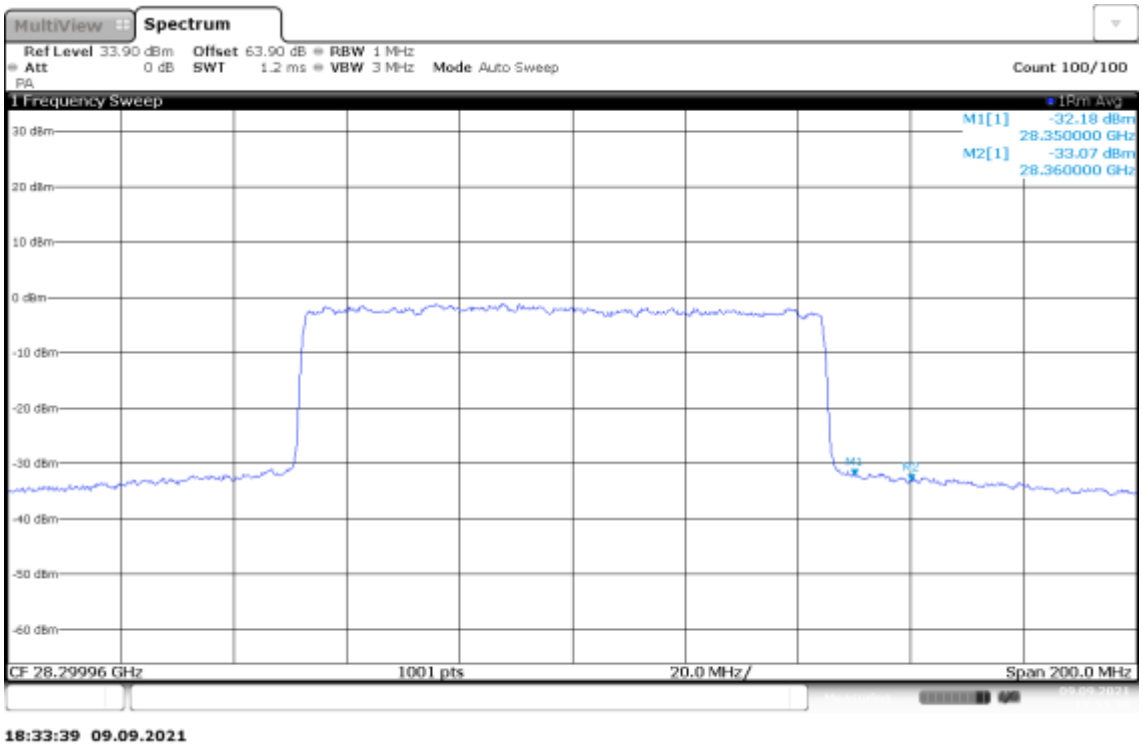
**HIGH BAND EDGE BLOCK-100MHz-100%RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | QPSK | -32.18 | -5 |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | | -33.07 | -13 |

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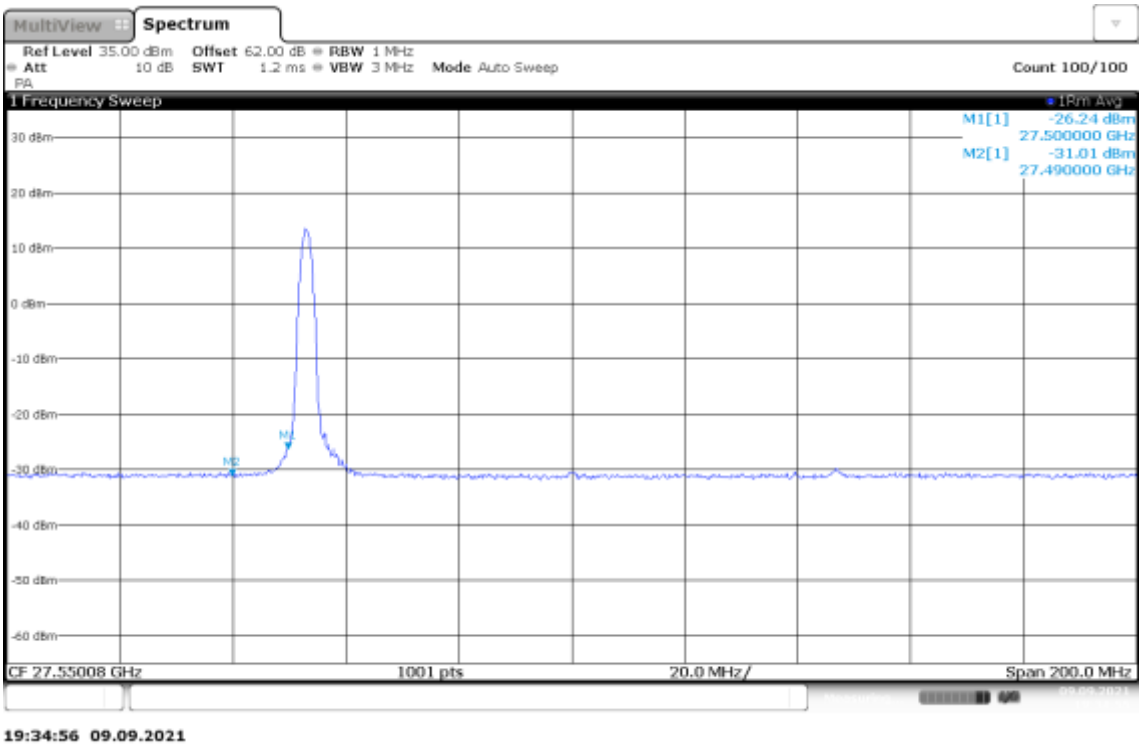
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | QPSK | -26.24 | -5 |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | | -31.01 | -13 |

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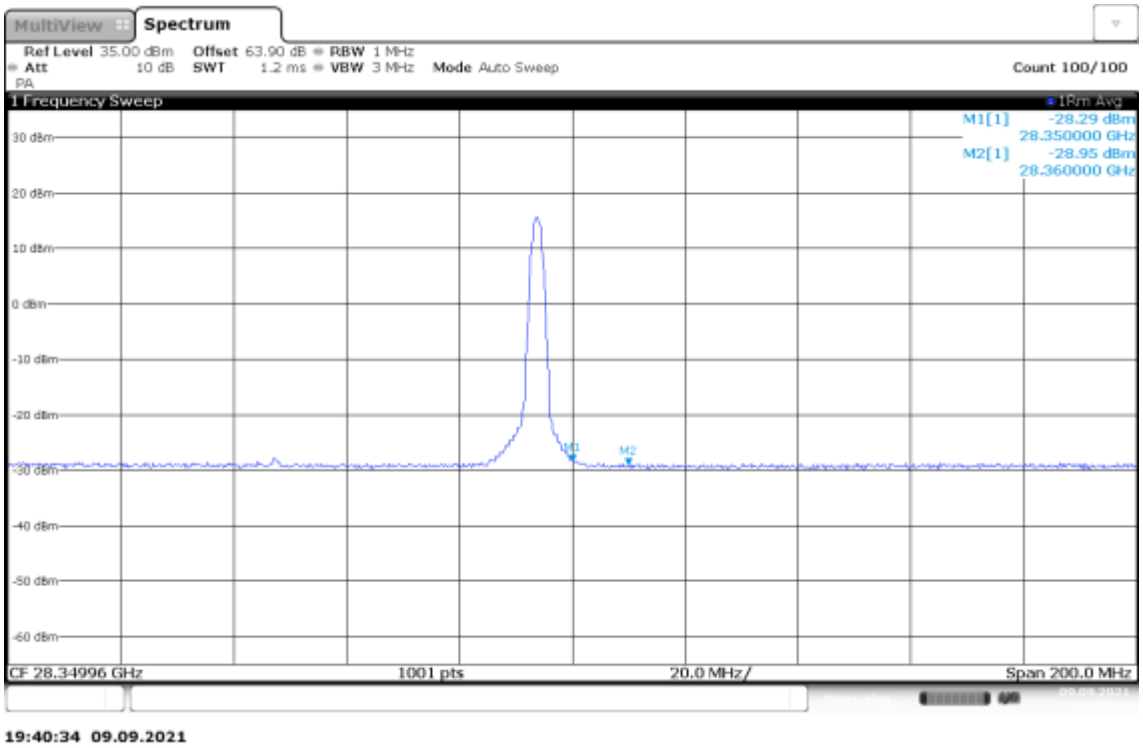
**HIGH BAND EDGE BLOCK-100MHz-1RB**

| Module0, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | QPSK | -28.29 | -5 |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | | -28.95 | -13 |

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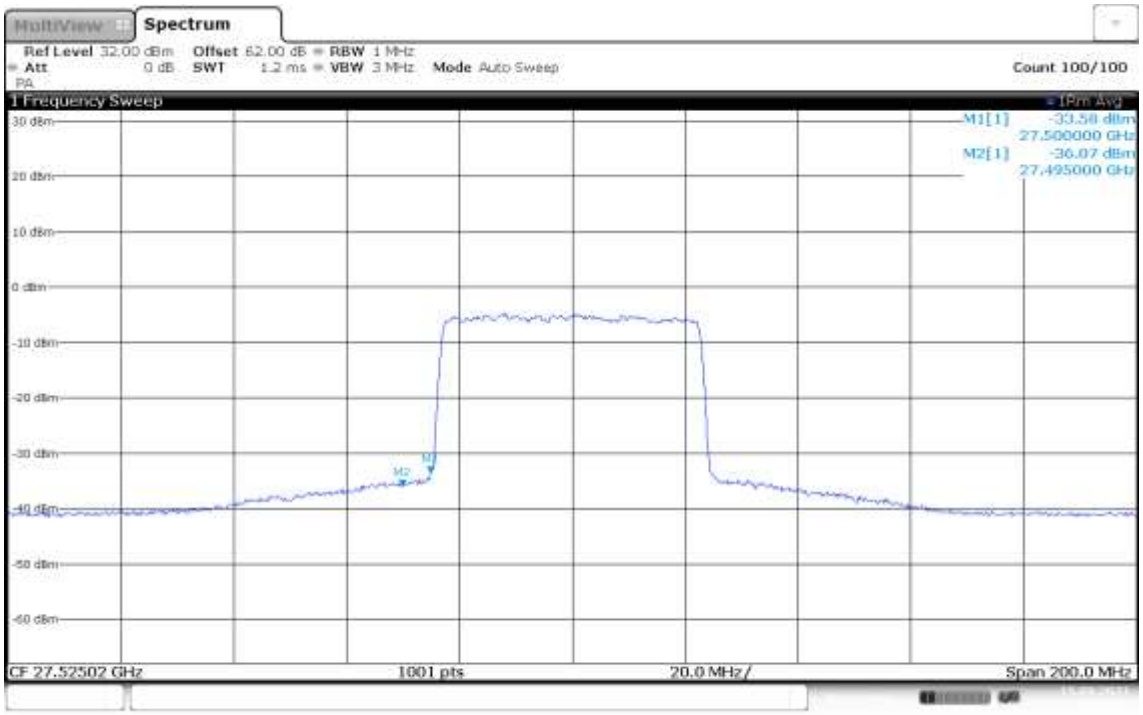
**LOW BAND EDGE BLOCK-50MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 27525 | LOW | 120kHz | QPSK | -33.58 | -5 |
| n261 | 50MHz | 27525 | LOW | 120kHz | | -36.07 | -13 |

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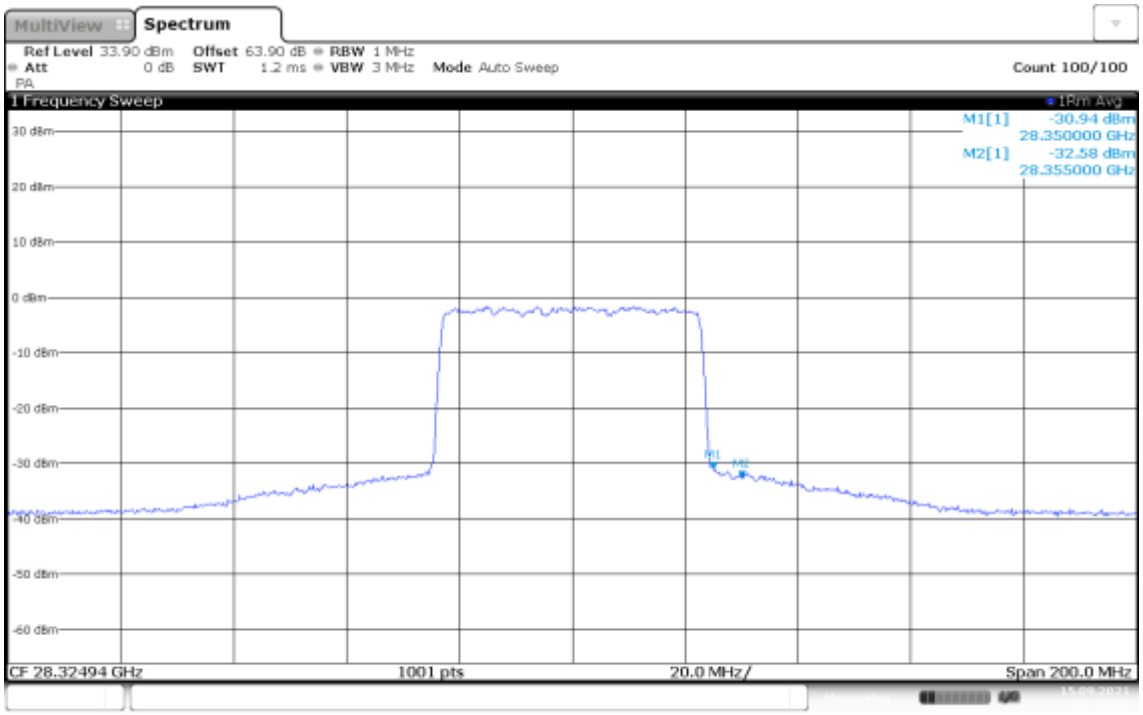
**HIGH BAND EDGE BLOCK-50MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | QPSK | -30.94 | -5 |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | | -32.58 | -13 |

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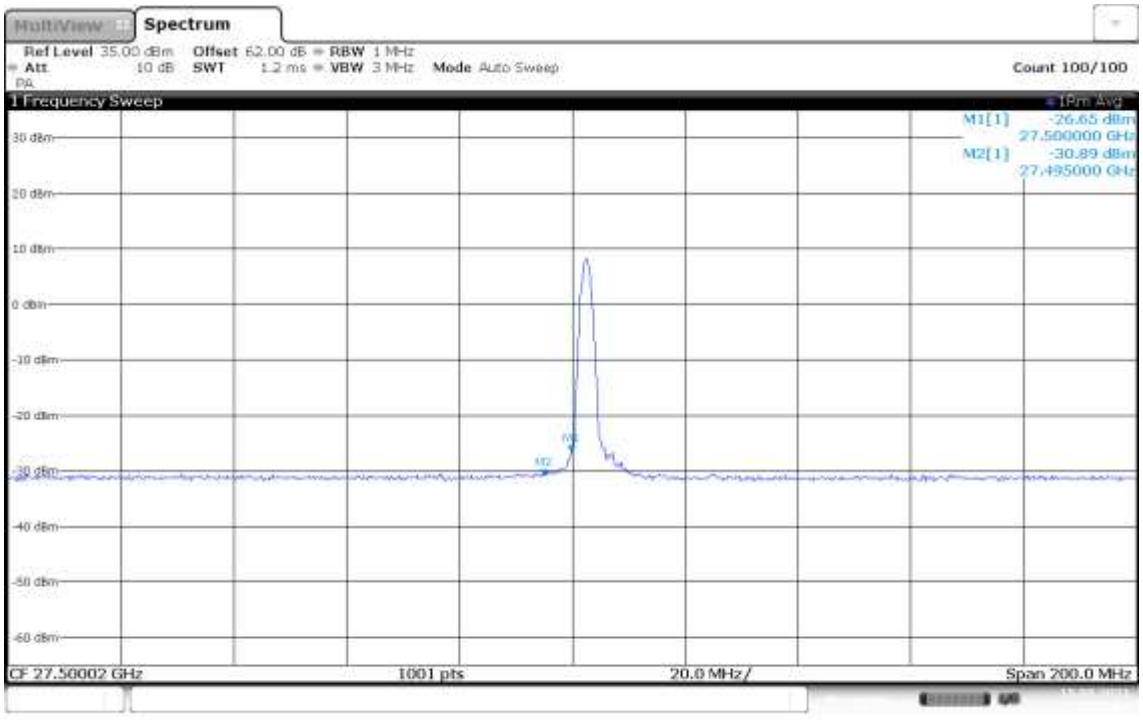
**LOW BAND EDGE BLOCK-50MHz-1RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 27525 | LOW | 120kHz | QPSK | -26.65 | -5 |
| n261 | 50MHz | 27525 | LOW | 120kHz | | -30.89 | -13 |

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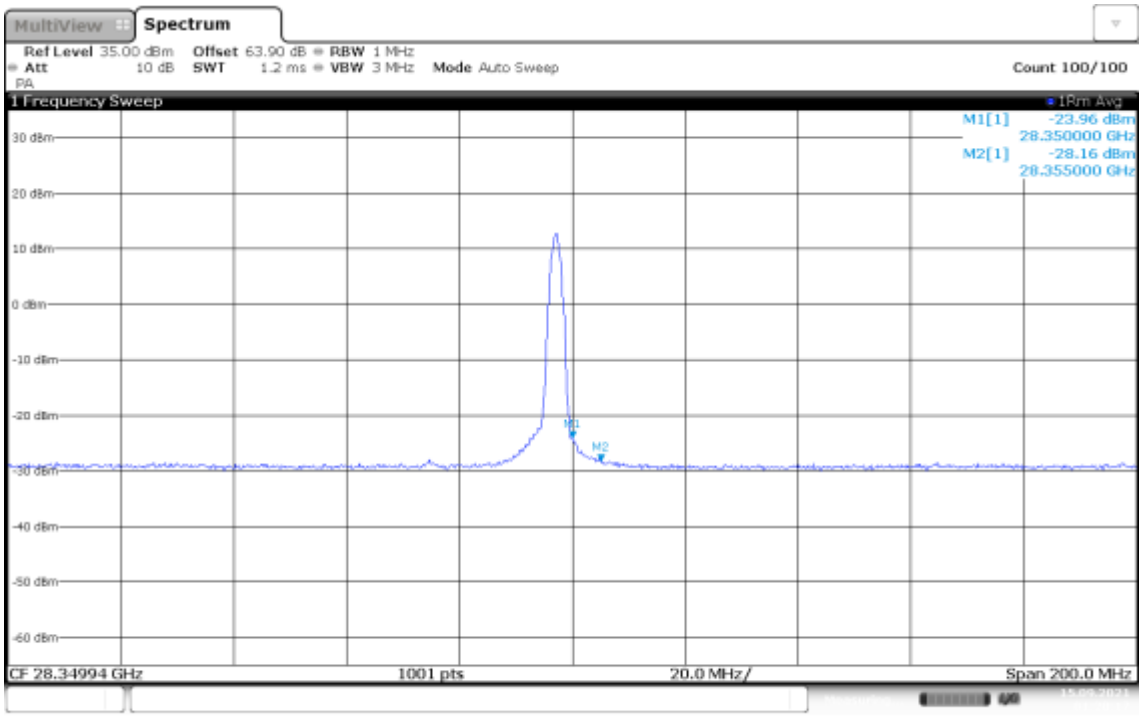
**HIGH BAND EDGE BLOCK-50MHz-1RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | QPSK | -23.96 | -5 |
| n261 | 50MHz | 28324.92 | HIGH | 120kHz | | -28.16 | -13 |

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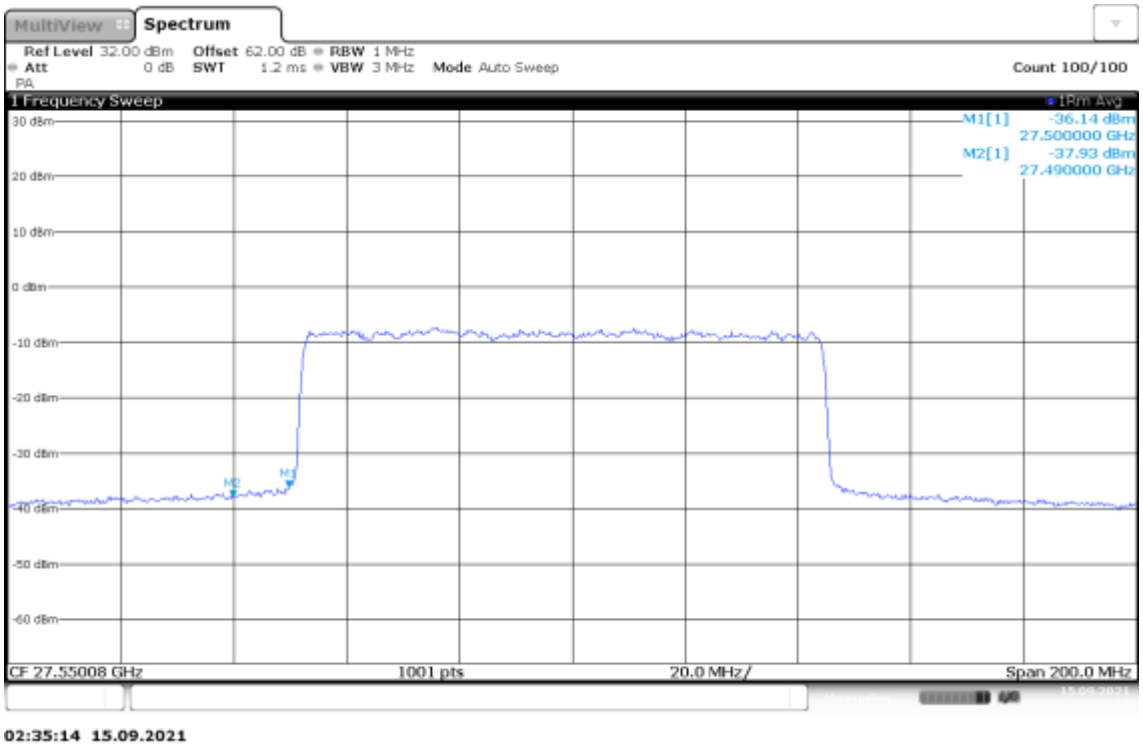
**LOW BAND EDGE BLOCK-100MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | QPSK | -36.14 | -5 |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | | -37.93 | -13 |

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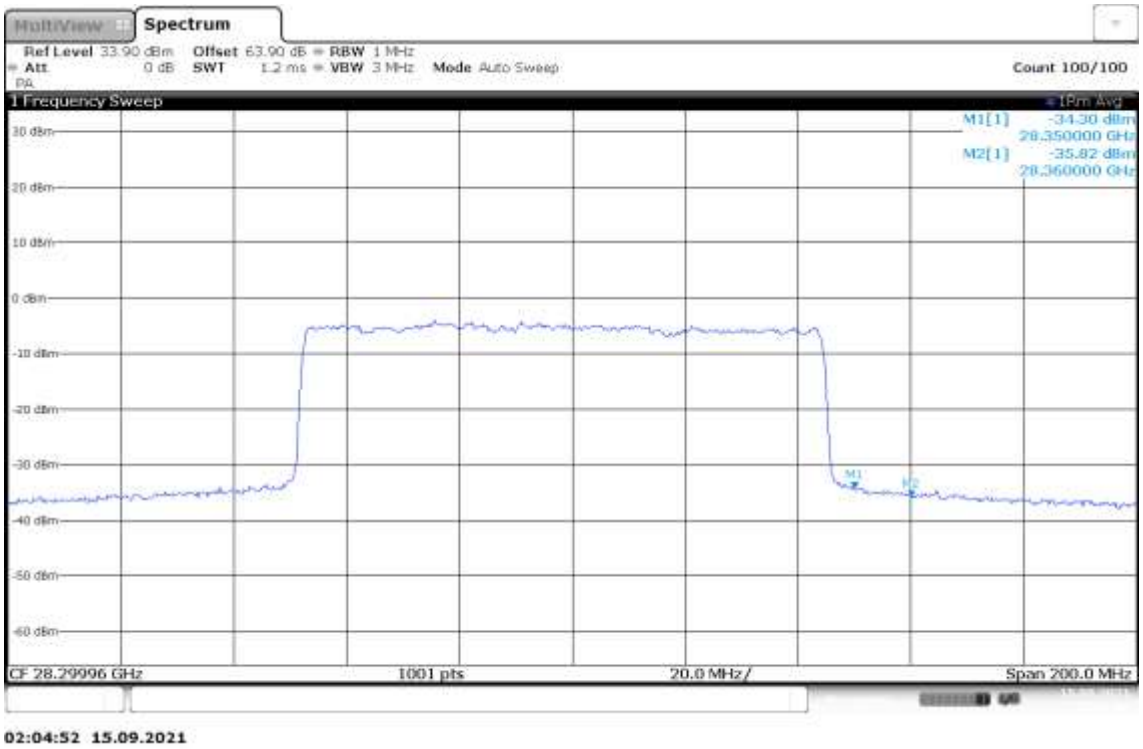
**HIGH BAND EDGE BLOCK-100MHz-100%RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | QPSK | -34.30 | -5 |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | | -35.82 | -13 |

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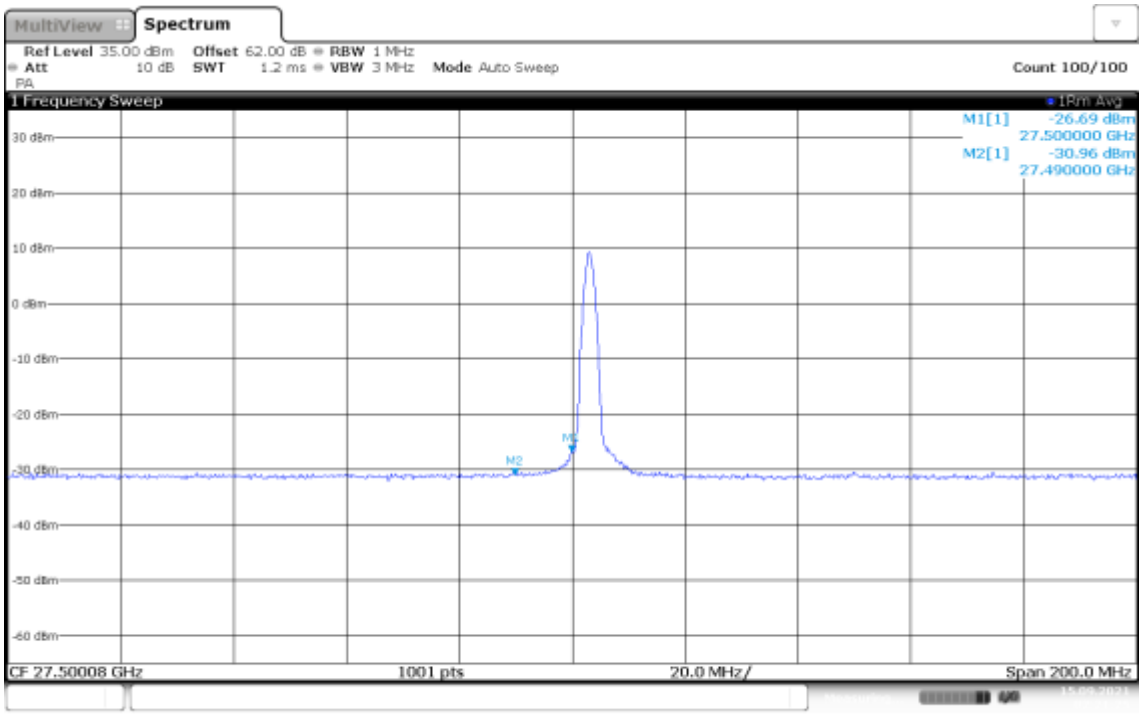
**LOW BAND EDGE BLOCK-100MHz-1RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | QPSK | -26.69 | -5 |
| n261 | 100MHz | 27550.08 | LOW | 120kHz | | -30.96 | -13 |

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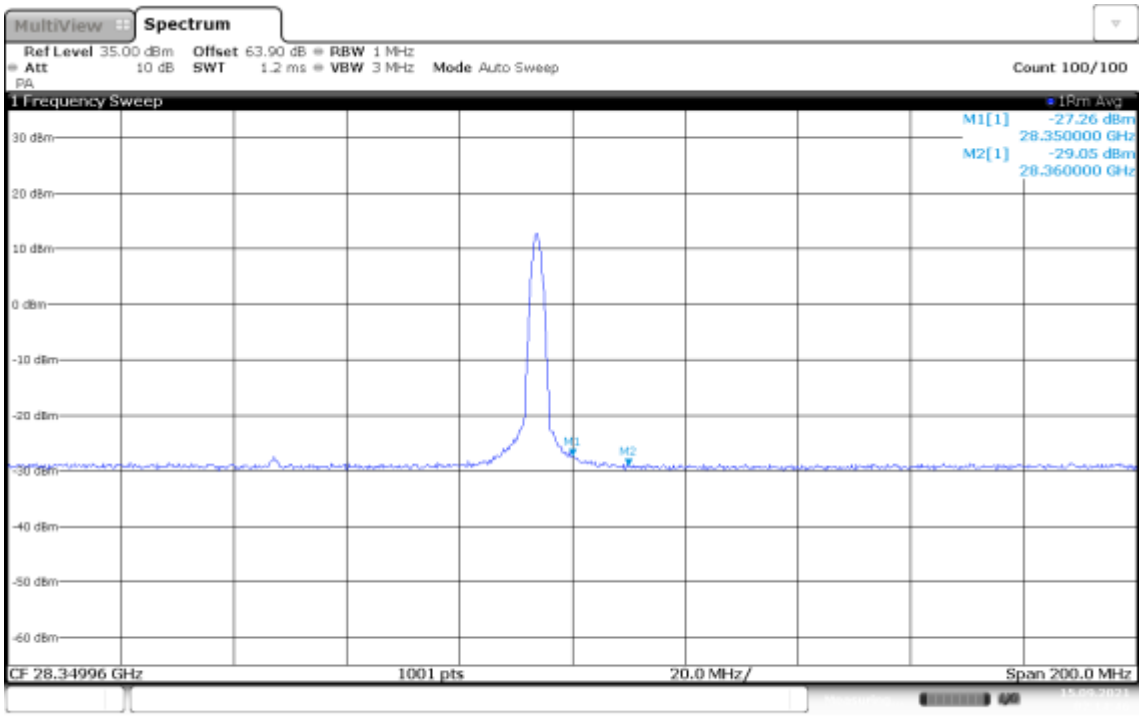
**HIGH BAND EDGE BLOCK-100MHz-1RB**

| Module1, PUSCH DFT | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BANDWIDTH | FREQUENCY(MHz) | CHANNEL | SCS | MODULATION | Peak(dBm) | Limit(dBm) |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | QPSK | -27.26 | -5 |
| n261 | 100MHz | 28299.96 | HIGH | 120kHz | | -29.05 | -13 |

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## Annex B: Calibration Certificates List

| | | | | | |
|---|---|---|---|---|---|
| Signal Generator | SMF100A | 104940 | R&S | 2021-12-09 | 1 year |


# 校 准 证 书

证书编号： J20X12055

| | |
|---|---|
| 客 户 名 称 | 中国泰尔实验室 |
| 客 户 地 址 | 北京市海淀区花园北路 52 号 |
| 器 具 名 称 | 信号发生器 |
| 型 号/规 格 | SMF100A |
| 出 厂 编 号 | 104940 |
| 制 造 单 位 | ROHDE&SCHWARZ 公司 |
| 校 准 日 期 | 2020 年 12 月 10 日 |

所测数据符合该仪表说明书技术指标要求。


批准人：

核验员：

校准员：

地址：北京海淀区花园北路 52 号通信计量中心　　电话：+86-10-62301383
邮编：100191　　传真：+86-10-62304104
网址：www.chinattl.com　　Email：cal@caict.ac.cn

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| Signal Generator | E8257D（60GHz） | MY59140557 | Keysight | 2022-01-19 | 1 year |
|---|---|---|---|---|---|

No. RAG202101178

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*Page 1 This certificate include 8 Pages*

# 北京无线电计量测试研究所

Beijing Institute of Radio Metrology and Measurement

中国航天科工集团第二研究院二〇三所

国防科技工业第二计量测试研究中心

中国认可
校准
CALIBRATION
CNAS L1665

# 校 准 证 书

## Certificate of Calibration

委托单位： 中国泰尔实验室
*Customer*

地址： 海淀区花园北路 52 号
*Address*

被测样品： 信号发生器
*EUT/DUT*

编号： MY59140557
*No.*

型号： E8257D
*Type*

制造商： 是德
*Manufacturer*

校准人： *Operator*

接收日期： 2021 年 1 月 18 日
*Acceptance date* *Year* *Month* *Day*

核验人： *Inspector*

校准日期： 2021 年 1 月 20 日
*Calibration date* *Year* *Month* *Day*

批准人： 吴远征
*Approver*

发证单位：
*Issued by (stamp)*

校准专用章

本实验室地址(Add)：北京市海淀区永定路 50 号
No.50 Yongding Road , Haidian District ,Beijing

通信地址：北京 142 信箱 408 分箱
P. O. Box: 3930 ,Beijing China

服务电话(Tel)：010-68385358 监督电话(Tel)：010-68387448

邮政编码(Post Code)：100854 传真(Fax)： 86-10-68385470

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| | | | | | |
|---|---|---|---|---|---|
| Antenna | VULB 9163 | 483 | SCHWARZBECK | 2021/8/27 | 1 year |

中 国 计 量 科 学 研 究 院

# 校 准 证 书

## Calibration Certificate

证书编号 XDtx2020-01130
Certificate No.

| | |
|---|---|
| 客户名称 Client | 中国泰尔实验室 |
| 器具名称 Instrument | 复合天线 Hybrid Antenna |
| 型号/规格 Type/Model | VULB 9163 |
| 出厂编号 Serial No. | 483 |
| 生产厂商 Manufacturer | SCHWARZBECK |
| 联络信息 Contact Information | 北京市海淀区花园北路 52 号 |
| 校准日期 Date of Calibration | 2020-08-28 |
| 接收日期 Date of Receiving | 2020-08-14 |

批准人：
Approved by

中国计量科学研究院 校准专用章

发布日期：2020 年 8 月 28 日
Date of Issue

地址：中国北京北三环东路 18 号
Address: No.18 Bei San Huan Dong Lu,Beijing,P.R.China
邮编：100029
Post Code
电话：+86-10-64525569/74
Tel
传真：+86-10-64271948
Fax
网址：http://www.nim.ac.cn
Website
电子邮箱：kehufuwu@nim.ac.cn
Email

2019-jz-R0520

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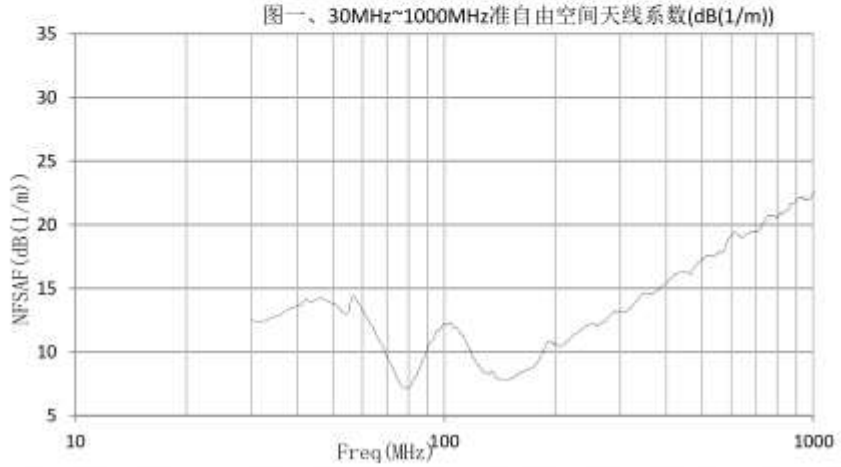
中 国 计 量 科 学 研 究 院

证书编号 XDtx2020-01130
Certificate No.

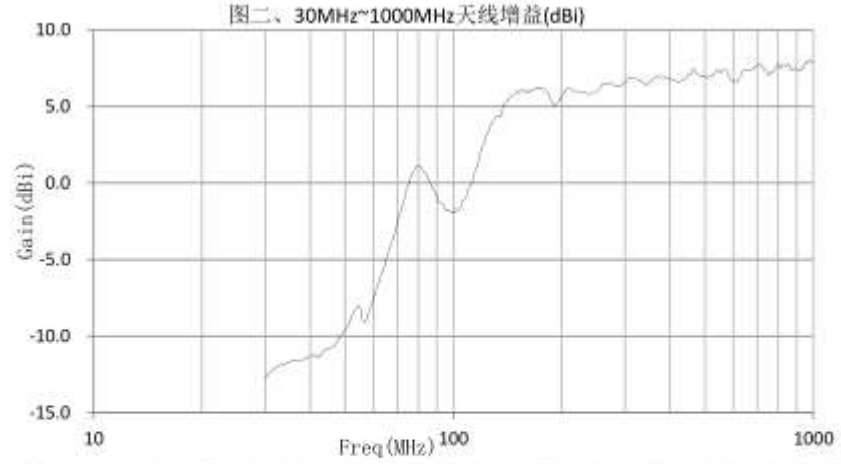
# 校 准 结 果
Calibration Results

四、数据曲线 Data Curves

图一、30MHz~1000MHz准自由空间天线系数(dB(1/m))




图二、30MHz~1000MHz天线增益(dBi)

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2019-jz-R0520



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| | | | | | |
|---|---|---|---|---|---|
| Antenna | 3116 | 2661 | ETS-Lindgren | 2022-01-05 | 1 year |

# 中 国 计 量 科 学 研 究 院

CNAS 中国认可 国际互认 校准 CALIBRATION CNAS L0502

## 校 准 证 书
## Calibration Certificate

证 书 编 号 XDtx2021-00015
Certificate No.

| | |
|---|---|
| 客户名称 Client | 中国泰尔实验室 |
| 器具名称 Instrument | 喇叭天线 |
| 型号/规格 Type/Model | 3116 |
| 出厂编号 Serial No. | 2661 |
| 生产厂商 Manufacturer | / |
| 联络信息 Contact Information | 北京市海淀区花园北路 52 号 |
| 校准日期 Date of Calibration | 2021-01-06 |
| 接收日期 Date of Receiving | 2020-12-30 |

批准人： 郭晓涛
Approved by

中国计量科学研究院 校准专用章

发布日期：2021 年 1 月 15 日
Date of Issue

地址：中国北京北三环东路 18 号
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电话：+86-10-64525569/74
Tel
传真：+86-10-64271948
Fax
网址：http://www.nim.ac.cn
Website
电子邮箱：kehufuwu@nim.ac.cn
Email

2019-jz-R0520

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中 国 计 量 科 学 研 究 院

证书编号 XDtx2021-00015
Certificate No.

# 校 准 结 果
## Calibration Results

表 1. 校准数据
Table 1 Calibration Results

| 频率 Frequency (GHz) | 天线系数 AF dB(1/m) | 增益 Gain (dBi) | 驻波比 SWR (/) |
|---|---|---|---|
| 18 | 43.9 | 11.5 | 1.35 |
| 18.5 | 44.2 | 11.4 | 1.42 |
| 19 | 44.5 | 11.3 | 1.46 |
| 19.5 | 44.9 | 11.1 | 1.48 |
| 20 | 45.2 | 11.0 | 1.56 |
| 20.5 | 45.3 | 11.1 | 1.60 |
| 21 | 45.9 | 10.8 | 1.55 |
| 21.5 | 46.0 | 10.9 | 1.51 |
| 22 | 46.0 | 11.1 | 1.53 |
| 22.5 | 46.1 | 11.2 | 1.48 |
| 23 | 45.8 | 11.7 | 1.46 |
| 23.5 | 45.8 | 11.8 | 1.53 |
| 24 | 45.8 | 12.0 | 1.56 |
| 24.5 | 45.8 | 12.2 | 1.52 |
| 25 | 46.1 | 12.1 | 1.51 |
| 25.5 | 46.2 | 12.2 | 1.48 |
| 26 | 46.3 | 12.2 | 1.38 |
| 26.5 | 46.6 | 12.1 | 1.31 |
| 27 | 46.8 | 12.0 | 1.30 |
| 27.5 | 47.3 | 11.7 | 1.39 |
| 28 | 47.9 | 11.3 | 1.64 |
| 28.5 | 48.2 | 11.1 | 1.89 |
| 29 | 48.1 | 11.3 | 2.00 |
| 29.5 | 47.8 | 11.8 | 1.96 |
| 30 | 47.5 | 12.3 | 1.78 |

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中 国 计 量 科 学 研 究 院

证书编号 XDtx2021-00015
Certificate No.

# 校 准 结 果
## Calibration Results

| 频率 Frequency (GHz) | 天线系数 AF dB(1/m) | 增益 Gain (dBi) | 驻波比 SWR (/) |
|---|---|---|---|
| 30.5 | 47.2 | 12.7 | 1.56 |
| 31 | 47.1 | 12.9 | 1.37 |
| 31.5 | 47.3 | 12.9 | 1.20 |
| 32 | 47.7 | 12.7 | 1.12 |
| 32.5 | 47.9 | 12.6 | 1.15 |
| 33 | 48.4 | 12.2 | 1.23 |
| 33.5 | 49.1 | 11.6 | 1.40 |
| 34 | 49.7 | 11.1 | 1.56 |
| 34.5 | 49.9 | 11.0 | 1.74 |
| 35 | 50.2 | 10.9 | 1.89 |
| 35.5 | 49.9 | 11.3 | 1.98 |
| 36 | 49.4 | 12.0 | 1.99 |
| 36.5 | 48.7 | 12.7 | 1.96 |
| 37 | 48.0 | 13.6 | 1.84 |
| 37.5 | 47.5 | 14.2 | 1.69 |
| 38 | 47.3 | 14.5 | 1.56 |
| 38.5 | 47.0 | 14.9 | 1.43 |
| 39 | 46.9 | 15.1 | 1.28 |
| 39.5 | 47.3 | 14.9 | 1.30 |
| 40 | 48.1 | 14.2 | 1.51 |

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| | | | | | |
|---|---|---|---|---|---|
| Upconverter(50GHz-75GHz) | SMZ-75 | 101309 | R&S | 2022-01-14 | 1 year |

# 中国计量科学研究院

# 校准证书

证书编号 XDxh2021-10059

| | |
|---|---|
| 客户名称 | 中国泰尔实验室 |
| 器具名称 | SMZ75 倍频源 |
| 型号/规格 | SMZ75 |
| 出厂编号 | 101309 |
| 生产厂商 | Rohde & Schwarz |
| 联络信息 | 北京市海淀区花园北路 52 号 |
| 校准日期 | 2021-01-15 |
| 接收日期 | 2021-01-08 |

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 03 月 16 日

地址：北京北三环东路 18 号 邮编：100029
电话：010-64525569/74 传真：010-64271948
网址：http://www.nim.ac.cn 电子邮箱：kehufuwu@nim.ac.cn

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| | | | | | |
|---|---|---|---|---|---|
| Upconverter(75GHz-110GHz) | SMZ-110 | 101357 | R&S | 2022-01-14 | 1 year |

# 中国计量科学研究院

# 校 准 证 书

证书编号 XDxh2021-10060

| | |
|---|---|
| 客户名称 | 中国泰尔实验室 |
| 器具名称 | SMZ110 倍频源 |
| 型号/规格 | SMZ110 |
| 出厂编号 | 101357 |
| 生产厂商 | Rohde & Schwarz |
| 联络信息 | 北京市海淀区花园北路 52 号 |
| 校准日期 | 2021-01-15 |
| 接收日期 | 2021-01-08 |

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 03 月 16 日

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电话：010-64525569/74 传真：010-64271948
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| | | | | | |
|---|---|---|---|---|---|
| Upconverter(110GHz-170GHz)/ | 82406B | ZEI00141 | Ceyear | 2022-02-04 | 1 year |

# 中国计量科学研究院

# 校准证书

证书编号 XDgp2021-10237

| | |
|---|---|
| 客户名称 | 中国泰尔实验室 |
| 器具名称 | 信号源倍频器 |
| 型号/规格 | 82406B |
| 出厂编号 | ZEI00141 |
| 生产厂商 | 中电科仪器仪表有限公司 |
| 联络信息 | 北京市海淀区花园北路 52 号 |
| 校准日期 | 2021 年 02 月 05 日 |
| 接收日期 | 2021 年 01 月 08 日 |

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 02 月 08 日

地址：北京北三环东路 18 号 邮编：100029
电话：010-64525569/74 传真：010-64271948
网址：http://www.nim.ac.cn 电子邮箱：kehufuwu@nim.ac.cn

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| | | | | | |
|---|---|---|---|---|---|
| Upconverter(170GHz-220GHz)/ | 82406C | ZEI00164 | Ceyear | 2022-02-04 | 1 year |

# 中国计量科学研究院

# 校准证书

证书编号 XDgp2021-10238

| | |
|---|---|
| 客户名称 | 中国泰尔实验室 |
| 器具名称 | 信号源倍频器 |
| 型号/规格 | 82406C |
| 出厂编号 | ZEI00164 |
| 生产厂商 | 中电科仪器仪表有限公司 |
| 联络信息 | 北京市海淀区花园北路 52 号 |
| 校准日期 | 2021 年 02 月 05 日 |
| 接收日期 | 2021 年 01 月 08 日 |

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 02 月 08 日

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电话：010-64525569/74 传真：010-64271948
网址：http://www.nim.ac.cn 电子邮箱：kehufuwu@nim.ac.cn

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第1页共5页

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| Spectrum Analyzer | FSW67 | 103290 | R&S | 2022-02-04 | 1 year |
|---|---|---|---|---|---|

No. RSA202101150

第 1 页 共 11 页
*Page 1 This certificate include 11 Pages*

# 北京无线电计量测试研究所

Beijing Institute of Radio Metrology and Measurement
中国航天科工集团第二研究院二〇三所
国防科技工业第二计量测试研究中心

中国认可
校准
CALIBRATION
CNAS L1665

# 校 准 证 书
# Certificate of Calibration

委托单位： 中国泰尔实验室
*Customer*

地址： 海淀区花园北路 52 号
*Address*

被测样品： 频谱分析仪
*EUT/DUT*

编号： 103290
*No.*

型号： FSW67
*Type*

制造商： R/S
*Manufacturer*

校准人： 武卫平
*Operator*

接收日期： 2021 年 1 月 18 日
*Acceptance date* *Year* *Month* *Day*

核验人： 吴远任
*Inspector*

校准日期： 2021 年 1 月 20 日
*Calibration date* *Year* *Month* *Day*

批准人： 陈云格
*Approver*

发证单位：
*Issued by (stamp)*

北京无线电计量测试研究所 校准 专用章

本实验室地址(Add)：北京市海淀区永定路 50 号
No.50 Yongding Road , Haidian District ,Beijing
通信地址：北京 142 信箱 408 分箱
P. O. Box: 3930 ,Beijing China
服务电话(Tel)：010-68385358 监督电话(Tel)：010-68387448
邮政编码(Post Code)：100854 传真(Fax)： 86-10-68385470

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| | | | | | |
|---|---|---|---|---|---|
| (downconverter)Harmonic Mixer(60GHz-90GHz) | FS-Z90 | 101655 | R&S | 2022-02-04 | 1 year |

# 中国计量科学研究院

# 校 准 证 书

证书编号 XDxh2021-10057

客户名称 中国泰尔实验室

器具名称 FS-Z90 混频器

型号/规格 FS-Z90

出厂编号 101655

生产厂商 Rohde & Schwarz

联络信息 北京市海淀区花园北路 52 号

校准日期 2021-01-15

接收日期 2021-01-08

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 01 月 20 日

地址：北京北三环东路 18 号 邮编：100029

电话：010-64525569/74 传真：010-64271948

网址：http://www.nim.ac.cn 电子邮箱：kehufuwu@nim.ac.cn

2019-jz-R0520

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| | | | | | |
|---|---|---|---|---|---|
| (downconverter)Harmonic Mixer(75GHz-110GHz) | FS-Z110 | 101463 | R&S | 2022-01-19 | 1 year |

中国计量科学研究院

# 校 准 证 书

证书编号 XDxh2021-10058

客户名称 中国泰尔实验室

器具名称 FS-Z110 混频器

型号/规格 FS-Z110

出厂编号 101463

生产厂商 Rohde & Schwarz

联络信息 北京市海淀区花园北路 52 号

校准日期 2021-01-15

接收日期 2021-01-08

批准人：

中国计量科学研究院 校准专用章

发布日期： 2021 年 01 月 20 日

地址：北京北三环东路 18 号 邮编：100029

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| | | | | | |
|---|---|---|---|---|---|
| (downconverter)Harmonic Mixer(110GHz-170GHz)/ | FS-Z170 | 101008 | R&S | 2022-02-17 | 1 year |

Radiometer Physics
A Rohde & Schwarz Company

# Calibration Certificate
Kalibrierschein

**Certificate Number 24-0170-101008-01**
Zertifikatsnummer

## Unit Data

**Item** / Gegenstand: Harmonic Mixer, 110 GHz to 170 GHz

**Manufacturer** / Hersteller: RPG Radiometer-Physics GmbH

**Type** / Typ: RPG FS-Z170

**Material Number** / Materialnummer: 3622.0714.02 **Serial Number** / Seriennummer: 101008

**Asset Number** / Inventarnummer:

## Order Data

**Customer** / Auftraggeber:

**Order Number** / Bestellnummer:

**Date of Receipt** / Eingangsdatum:

## Performance

**Place and Date of Calibration** / Ort und Datum der Kalibrierung: Meckenheim, 2021-02-18

**Scope of Calibration** / Umfang der Kalibrierung: Standard Calibration

**Statement of Compliance (Incoming)** / Konformitätsaussage (Anlieferung): New device

**Statement of Compliance (Outgoing)** / Konformitätsaussage (Auslieferung): All measured values are within the data sheet specifications.

**Extend of Calibration Documents** / Umfang des Kalibrierdokuments: 2 pages Calibration Certificate
4 pages Outgoing Results

**This calibration certificate documents, that the named item is tested and measured against defined specifications. Measurement results are located usually in the corresponding interval with a probability of approx. 95% (coverage factor k = 2). Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no standards are available, measurements are referenced to standards of the R&S laboratories. Principles and methods of calibration correspond with EN ISO/IEC 17025. This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid. The user is obliged to have the object recalibrated at appropriate intervals.**

Dieser Kalibrierschein dokumentiert, dass der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Messwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Werteintervall (Erweiterte Messunsicherheit mit k = 2). Die Kalibrierung erfolgte mit Messmitteln und Normalen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien. Grundsätze und Verfahren der Kalibrierung beziehen sich auf EN ISO/IEC 17025. Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Unterschriften sind ungültig. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

**RPG Radiometer-Physics GmbH; Meckenheim**

| Date of Issue / Ausstellungsdatum | Head of Laboratory / Laborleitung | Person Responsible / Bearbeiter |
|---|---|---|
| 2021-02-22 | Schulze | Heinze |



RPG Radiometer-Physics GmbH • Werner-von-Siemens-Str. 4 • 53340 Meckenheim • Telephone national: 02225/99981-0 international: 0049 2225-99981-0
Fax: 02225/99981-99 • Managing Director: Achim Walber • Company's Place of Business: Meckenheim
Commercial Register No.: Bonn, HRB 10291 • VAT Identification No.: DE 123 377 395

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| | | | | | |
|---|---|---|---|---|---|
| (downconverter)Harmonic Mixer(170GHz-220GHz)/ | FS-Z220 | 101054 | R&S | 2021-12-14 | 1 year |

Radiometer Physics
A Rohde & Schwarz Company

# Calibration Certificate
Kalibrierschein

**Certificate Number 24-0220-101054-01**
Zertifikatsnummer

## Unit Data

**Item** Gegenstand: **Harmonic Mixer, 140 GHz to 220 GHz**

**Manufacturer** Hersteller: **RPG Radiometer-Physics GmbH**

**Type** Typ: **RPG FS-Z220**

**Material Number** Materialnummer: **3593.3250.02** **Serial Number** Seriennummer: **101054**

**Asset Number** Inventarnummer:

## Order Data

**Customer** Auftraggeber:

**This calibration certificate documents, that the named item is tested and measured against defined specifications. Measurement results are located usually in the corresponding interval with a probability of approx. 95% (coverage factor k = 2). Calibration is performed with test equipment and standards directly or indirectly traceable by means of approved calibration techniques to the PTB/DKD or other national/international standards, which realize the physical units of measurement according to the International System of Units (SI). In all cases where no standards are available, measurements are referenced to standards of the R&S laboratories. Principles and methods of calibration correspond with EN ISO/IEC 17025. This calibration certificate may not be reproduced other than in full. Calibration certificates without signatures are not valid. The user is obliged to have the object recalibrated at appropriate intervals.**

**Order Number** Bestellnummer:

**Date of Receipt** Eingangsdatum:

## Performance

**Place and Date of Calibration** Ort und Datum der Kalibrierung: **Meckenheim, 2020-12-15**

**Scope of Calibration** Umfang der Kalibrierung: **Standard Calibration**

**Statement of Compliance (Incoming)** Konformitätsaussage (Anlieferung): **New device**

**Statement of Compliance (Outgoing)** Konformitätsaussage (Auslieferung): **All measured values are within the data sheet specifications.**

**Extend of Calibration Documents** Umfang des Kalibrierdokuments: **2 pages Calibration Certificate**
**4 pages Outgoing Results**

Dieser Kalibrierschein dokumentiert, dass der genannte Gegenstand nach festgelegten Vorgaben geprüft und gemessen wurde. Die Messwerte lagen im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Werteintervall (Erweiterte Messunsicherheit mit k = 2). Die Kalibrierung erfolgte mit Messmitteln und Normalen, die direkt oder indirekt durch Ableitung mittels anerkannter Kalibriertechniken rückgeführt sind auf Normale der PTB/DKD oder anderer nationaler/internationaler Standards zur Darstellung der physikalischen Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Wenn keine Normale existieren, erfolgt die Rückführung auf Bezugsnormale der R&S-Laboratorien. Grundsätze und Verfahren der Kalibrierung beziehen sich auf EN ISO/IEC 17025. Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Kalibrierscheine ohne Unterschriften sind ungültig. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

**RPG Radiometer-Physics GmbH; Meckenheim**

**Date of Issue** Ausstellungsdatum: **2020-12-17**

**Head of Laboratory** Laborleitung: Schulze

**Person Responsible** Bearbeiter: Dick



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Fax: 02225/99981-99 • Managing Director: Achim Walber • Company's Place of Business: Meckenheim
Commercial Register No.: Bonn, HRB 10291 • VAT Identification No.: DE 123 377 395

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| Standard Gain Horn （40GHz-60GHz） | LB-19-25 | J202024086 | A-INFO | 2022-01-14 | 1 year |
|---|---|---|---|---|---|

A-INFO 英联微波

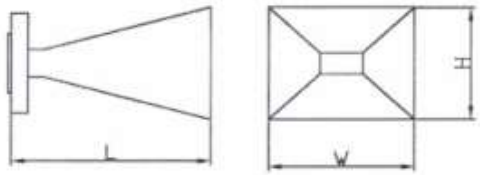
LB-19-25
40.0 - 60.0GHz 标准增益喇叭天线

## 技术指标

| | | |
|---|---|---|
| 频率(GHz) | A 型, 波导输出 | 40.0 - 60.0 |
| | C 型, 2.4mm-50K 输出 | 40.0 - 50.0 |
| | C 型, 1.85mm-50K 输出 | 40.0 - 60.0 |
| 增益(dB) | 25 典型值 | |
| 驻波 | 1.6 最大值 | |
| 3dB 波束宽度(°) | 10 典型值 | |
| 波导型号 | BJ500(WR19) | |
| 材料 | 铜 | |
| 输出形式 | A 型 FUGP500 | |
| | C 型 2.4mm-50K 或 1.85mm-50K | |
| 尺寸(mm) 宽 x 高 x 长 | A 型, 波导输出 | 49x41x130 |
| | C 型, 2.4mm-50K 输出 | 49x41x155 |
| | C 型, 1.85mm-50K 输出 | 49x41x157 |
| 净重(Kg) | A 型, 波导输出 | 约 0.15 |
| | C 型, 2.4mm-50K 输出 | 约 0.18 |
| | C 型, 1.85mm-50K 输出 | 约 0.18 |

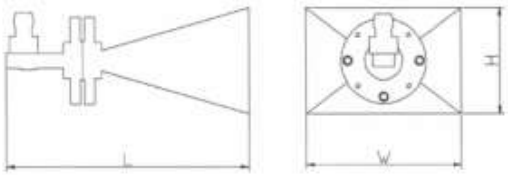
## 外形图 (尺寸: mm)

A 型




宽 x 高 x 长: 49x41x130

C 型




宽 x 高 x 长: 49x41x157

英联微波
第 1 页 / 共 7 页
北京 电话: 010-6266-7326 或 010-6266-7327 传真: 010-6266-7379 网址:www.ainfoinc.com
成都 电话: 028-8519-2786 或 028-8519-3047 传真: 028-8519-3068 www.ainfoinc.cn
测试报告仅供参考。详情请咨询: Sales@ainfoinc.com

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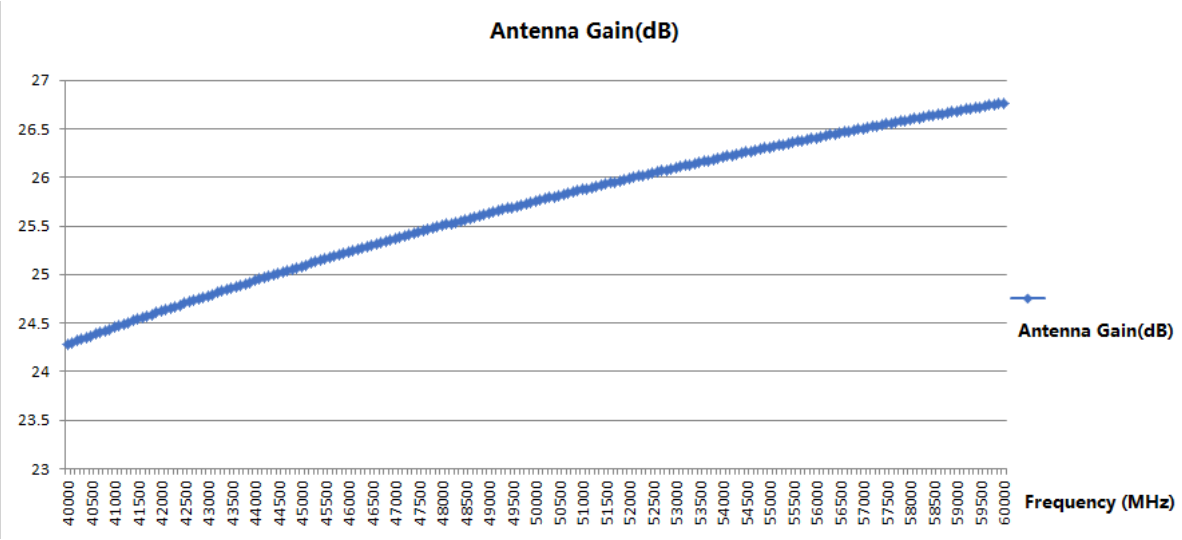


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| | | | | | |
|---|---|---|---|---|---|
| Standard Gain Horn （40GHz-60GHz） | LB-19-25 | J202024087 | A-INFO | 2022-01-14 | 1 year |

A-INFO 英联微波

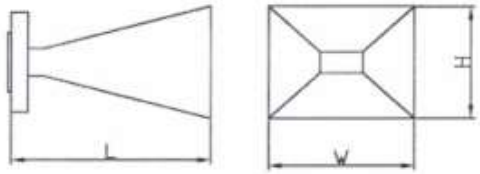
LB-19-25
40.0 - 60.0GHz 标准增益喇叭天线

## 技术指标

| | | |
|---|---|---|
| 频率(GHz) | A 型, 波导输出 | 40.0 - 60.0 |
| | C 型, 2.4mm-50K 输出 | 40.0 - 50.0 |
| | C 型, 1.85mm-50K 输出 | 40.0 - 60.0 |
| 增益(dB) | 25 典型值 | |
| 驻波 | 1.6 最大值 | |
| 3dB 波束宽度(°) | 10 典型值 | |
| 波导型号 | BJ500(WR19) | |
| 材料 | 铜 | |
| 输出形式 | A 型 FUGP500 | |
| | C 型 2.4mm-50K 或 1.85mm-50K | |
| 尺寸(mm) 宽 x 高 x 长 | A 型, 波导输出 | 49x41x130 |
| | C 型, 2.4mm-50K 输出 | 49x41x155 |
| | C 型, 1.85mm-50K 输出 | 49x41x157 |
| 净重(Kg) | A 型, 波导输出 | 约 0.15 |
| | C 型, 2.4mm-50K 输出 | 约 0.18 |
| | C 型, 1.85mm-50K 输出 | 约 0.18 |

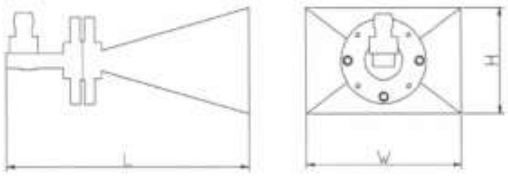
## 外形图 (尺寸: mm)

A 型




宽 x 高 x 长: 49x41x130

C 型




宽 x 高 x 长: 49x41x157

英联微波
第 1 页 / 共 7 页
北京 电话: 010-6266-7326 或 010-6266-7327 传真: 010-6266-7379 网址:www.ainfoinc.com
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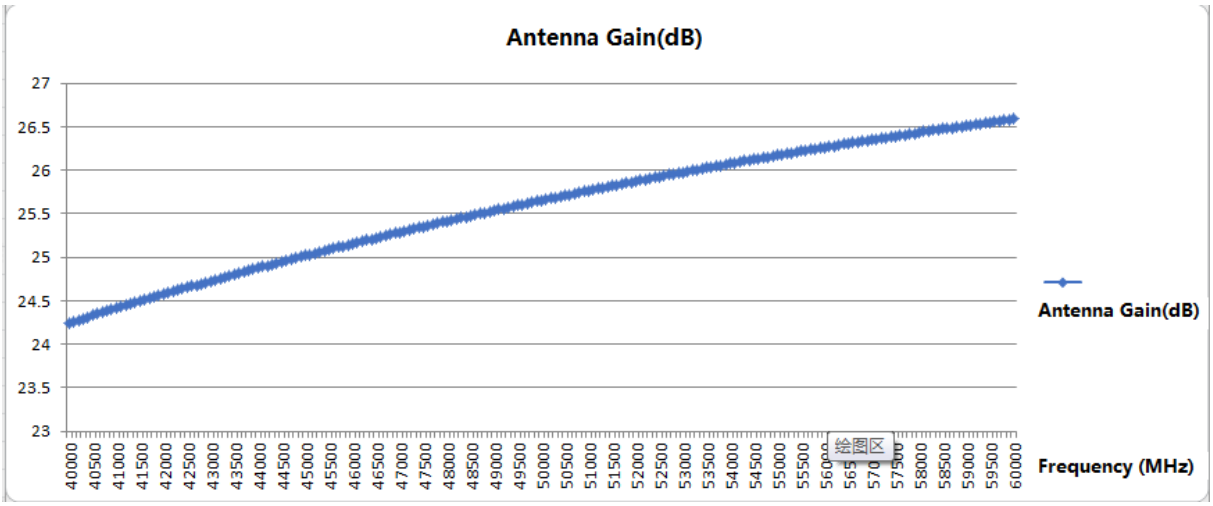


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| | | | | | |
|---|---|---|---|---|---|
| Standard Gain Horn （50GHz-75GHz） | LB-15-25 | J202062019 | A-INFO | 2021-12-14 | 1 year |

A-INFO 英联微波

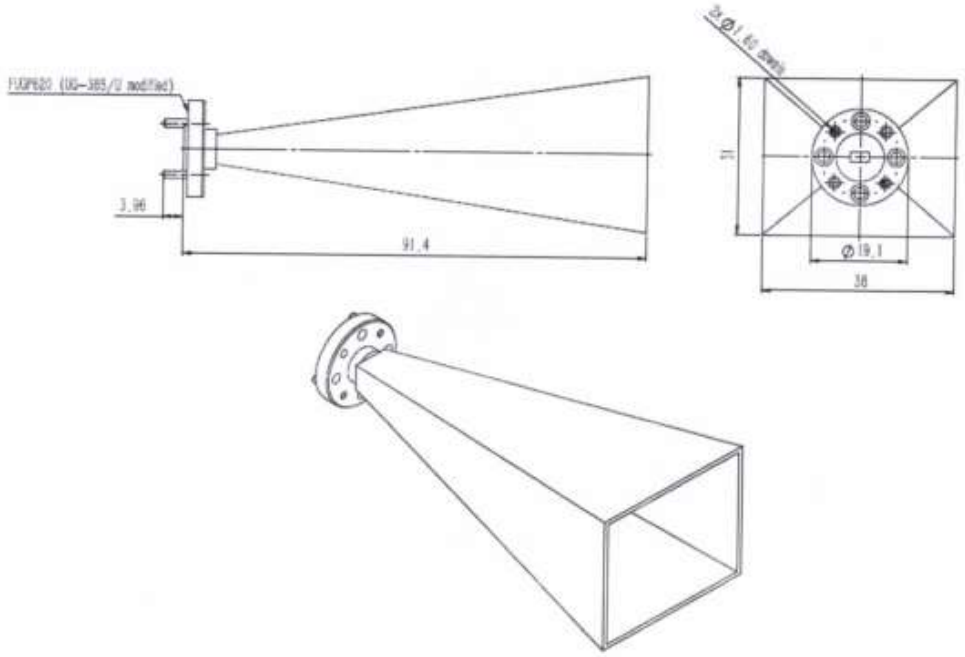
LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

## 技术指标

| | | |
|---|---|---|
| 频率(GHz) | A 型，波导输出 | 50.0 - 75.0 |
| | C 型，1.85mm-50K 输出 | 50.0 - 65.0 |
| 增益(dB) | 25 典型值 | |
| 驻波 | 1.6 最大值 | |
| 3dB 波束宽度(°) | 10 典型值 | |
| 波导型号 | BJ620(WR15) | |
| 材料 | 铜 | |
| 输出形式 | A 型 FUGP620 | |
| | C 型 1.85mm-50K | |
| 尺寸(mm) 宽 x 高 x 长 | A 型，波导输出 | 38x31x91.4 |
| | C 型，1.85mm-50K 输出 | 38x32.6x118.4 |
| 净重(Kg) | A 型，波导输出 | 约 0.07 |
| | C 型，1.85mm-50K 输出 | 约 0.10 |

## 外形图 (尺寸: mm)

A 型(FUGP620 法兰输出)




英联微波
北京 电话: 010-6266-7326 或 010-6266-7327 传真: 010-6266-7379 网址: www.ainfoinc.com
成都 电话: 028-8519-2786 或 028-8519-3047 传真: 028-8519-3068 www.ainfoinc.cn

测试报告仅供参考，详情请咨询: Sales@ainfoinc.com

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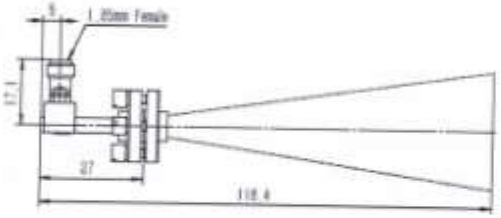
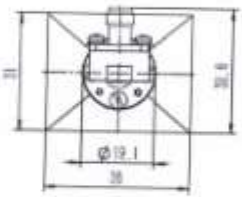
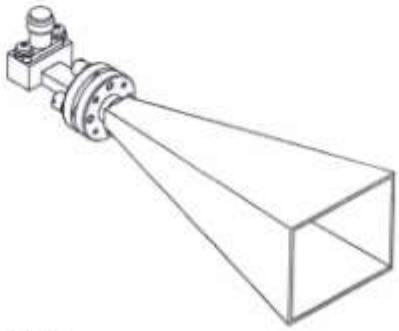
A-INFO 英联微波

LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

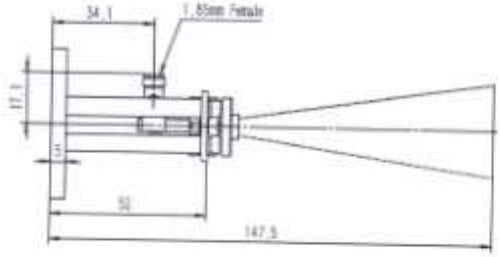
C 型(1.85mm-50K 输出)

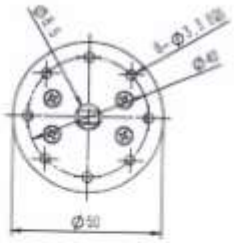


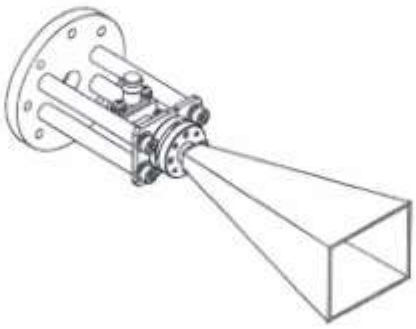



C 型(1.85mm-50K 输出，配圆形背夹)





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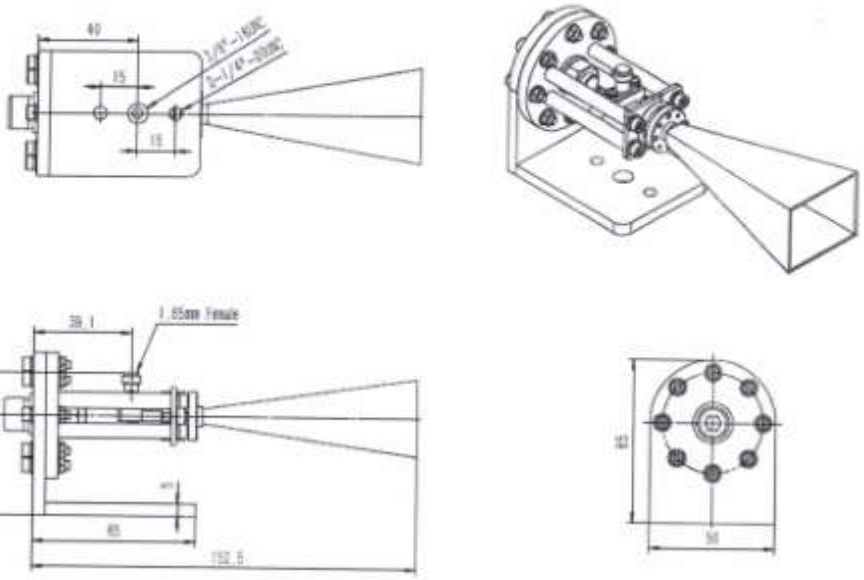
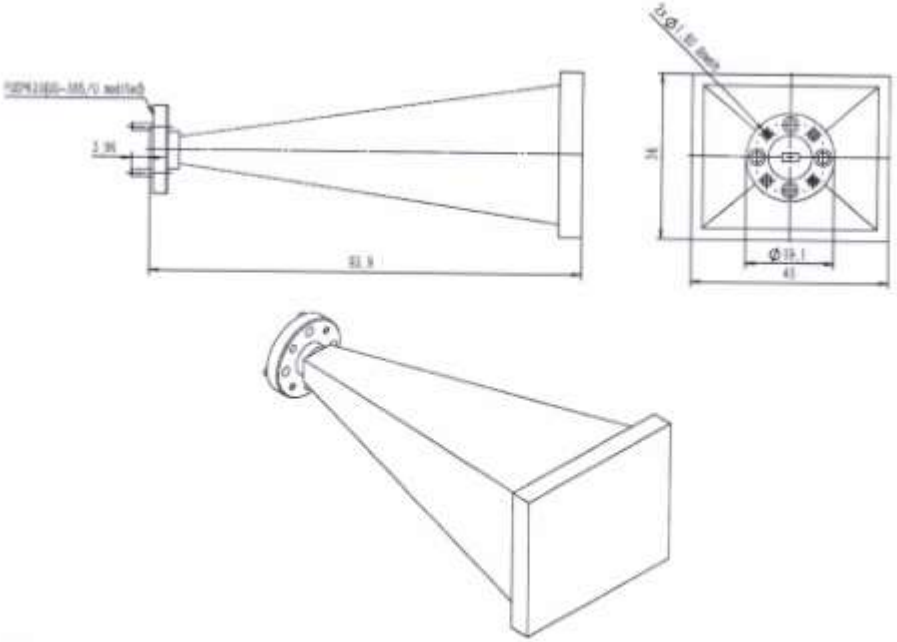
A-INFO 英联微波

LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

C 型(1.85mm-50K 输出，配 L 形背夹)




A 型(配天线罩)



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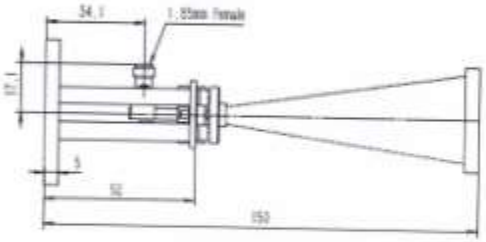
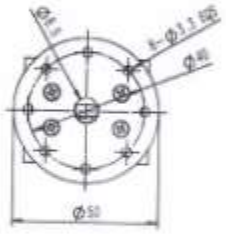
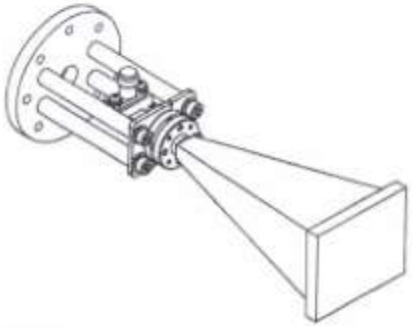
A-INFO 英联微波

LB-15-25
50.0 - 75.0GHz 标准增益喇叭天线

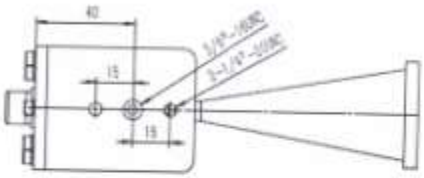
C 型(1.85mm-50K 输出，配圆形背夹和天线罩)

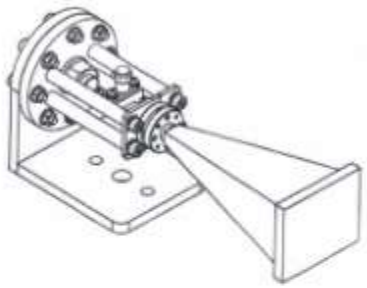


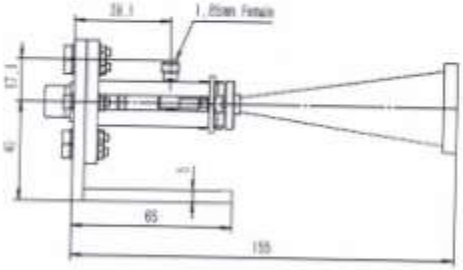


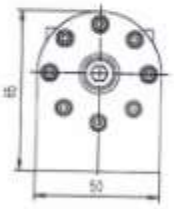


C 型(1.85mm-50K 输出，配 L 形背夹和天线罩)











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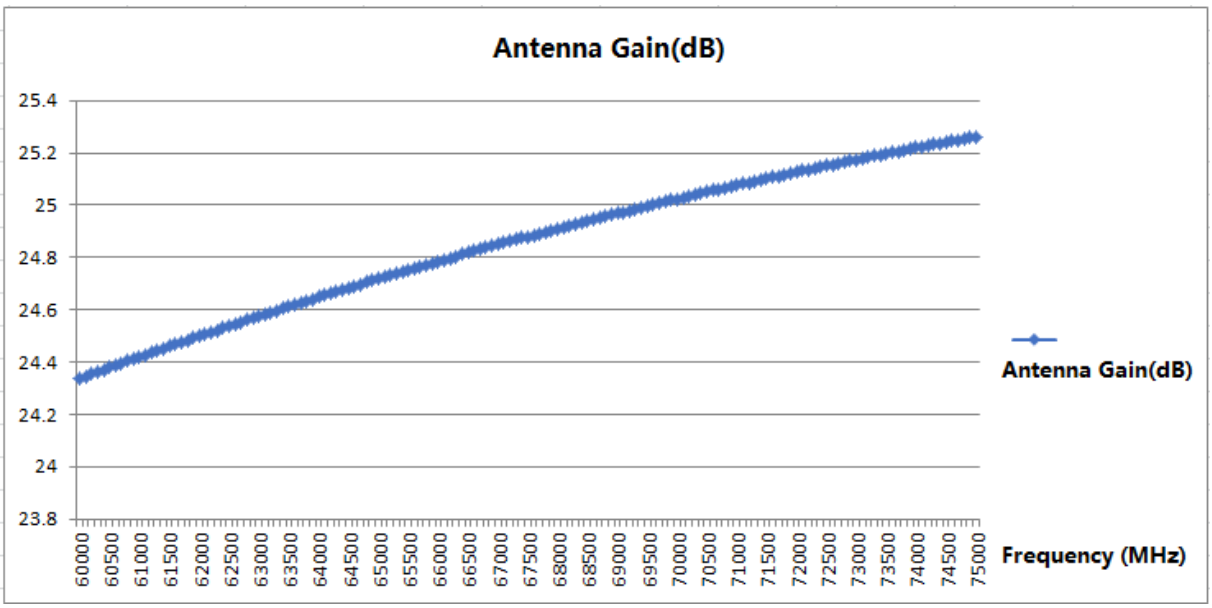


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| | | | | | |
|---|---|---|---|---|---|
| Standard Gain Horn （60GHz-90GHz） | LB-12-25 | J202062912 | A-INFO | 2022-02-17 | 1 year |

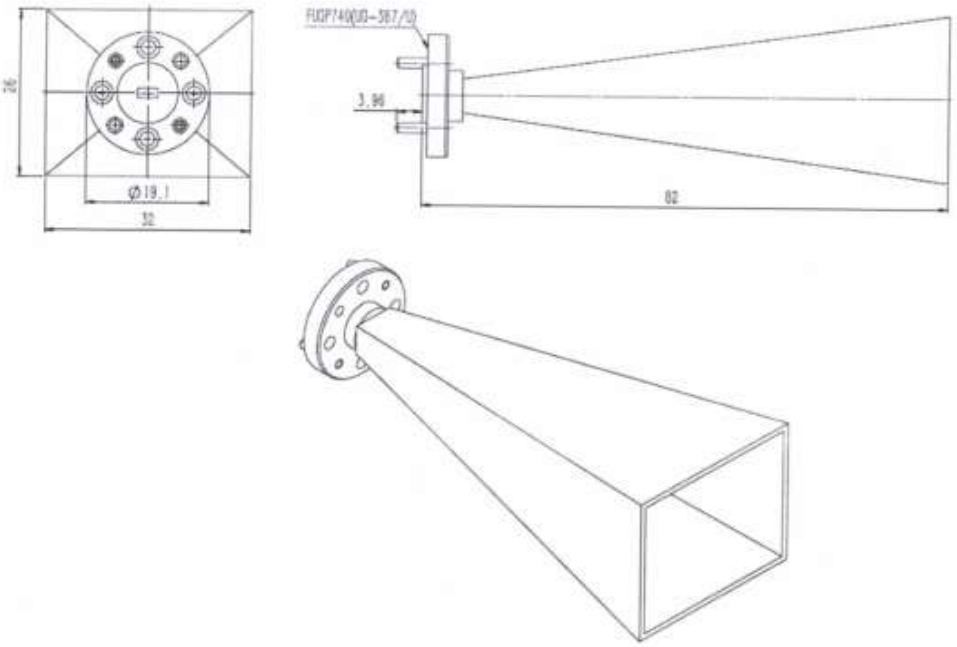
A-INFO 英联微波

LB-12-25
60.0 - 90.0GHz 标准增益喇叭天线

技术指标

| | |
|---|---|
| 频率(GHz) | 60.0 - 90.0 |
| 增益(dBi) | 25 典型值 |
| 驻波 | 1.6 最大值 |
| 3dB 波束宽度(°) | 10 典型值 |
| 波导型号 | BJ740(WR12) |
| 材料 | 铜 |
| 输出形式 | A 型: FUGP740 |
| 尺寸(mm) 宽 x 高 x 长 | A 型: 32x26x82 |
| 净重(Kg) | A 型: 约 0.05 |

外形图 (尺寸: mm)



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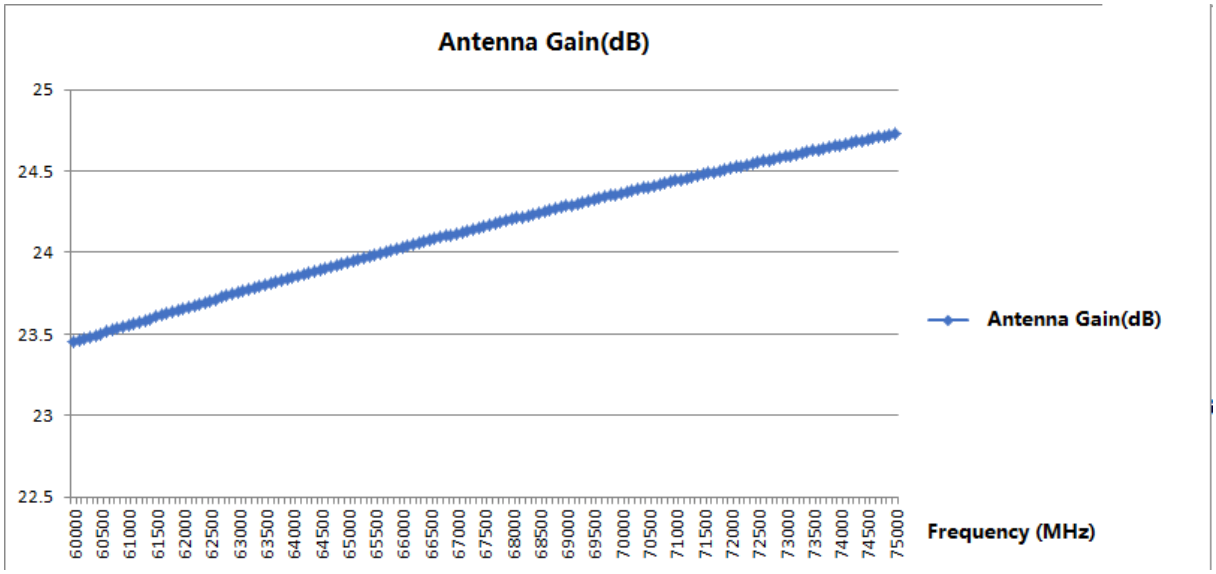


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| | | | | | |
|---|---|---|---|---|---|
| Standard Gain Horn （75GHz-110GHz） | LB-10-25 | J202023231 | A-INFO | 2022-01-27 | 1 year |

A-INFO 英联微波

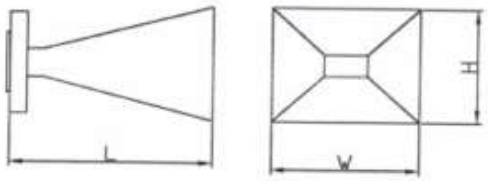
LB-10-25
75.0 - 110.0GHz 标准增益喇叭天线

技术指标

| | |
|---|---|
| 频率(GHz) | 75.0 - 110.0 |
| 增益(dB) | 25 典型值 |
| 驻波 | 1.6 最大值 |
| 3dB 波束宽度(°) | 10 典型值 |
| 波导型号 | BJ900(WR10) |
| 材料 | 铜 |
| 输出形式 | A 型: FUGP900 |
| 尺寸(mm) 宽 x 高 x 长 | A 型: 28x22x70 |
| 净重(Kg) | A 型: 约 0.05 |

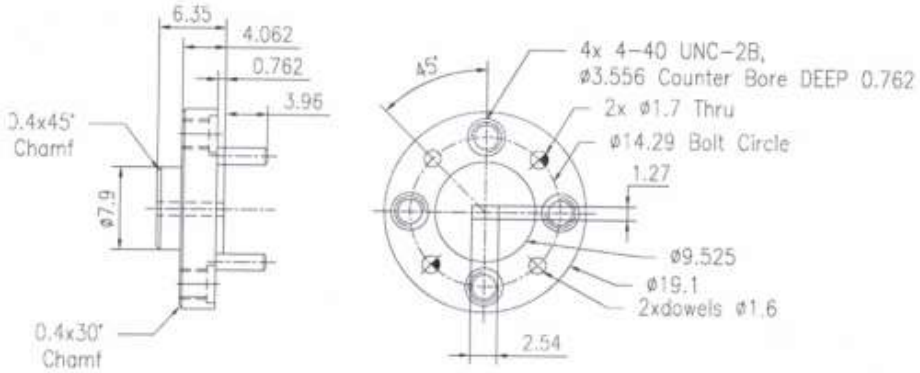
外形图 (尺寸: mm)

A 型




宽 x 高 x 长: 28x22x70

法兰外形图 (尺寸: mm)




FUGP900
(equivalent to UG-387/U modified)



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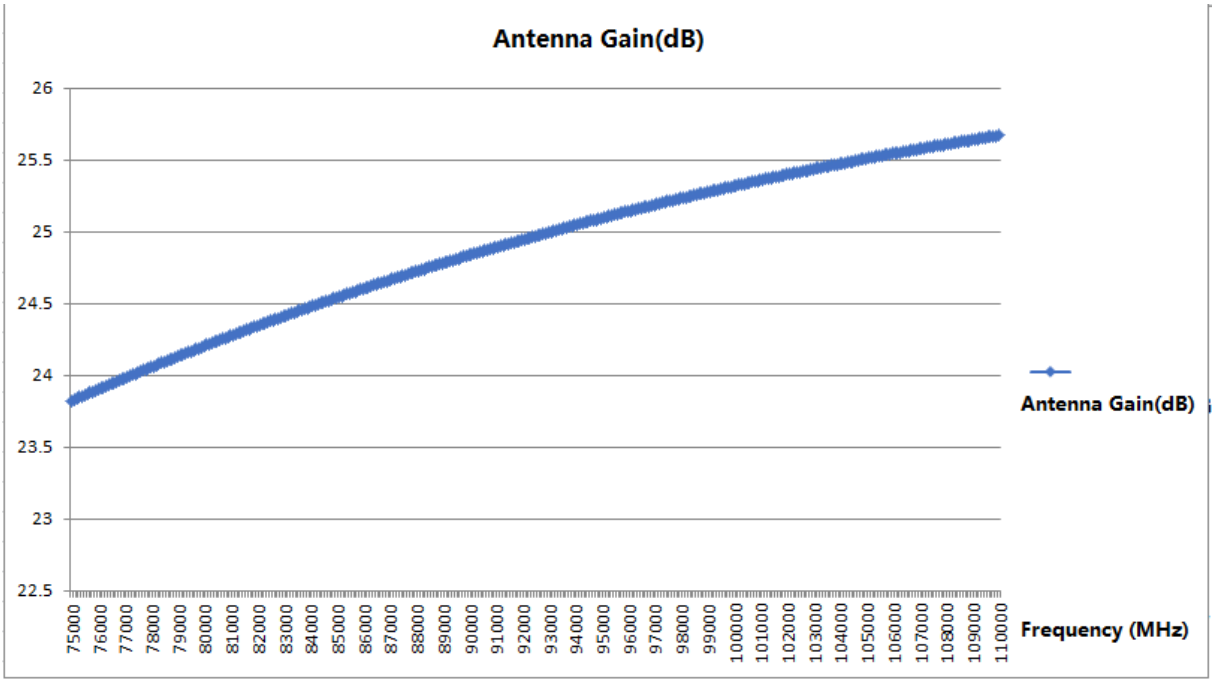


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| | | | | | |
|---|---|---|---|---|---|
| Standard Gain Horn （75GHz-110GHz） | LB-10-25 | J202023232 | A-INFO | 2022-01-27 | 1 year |

A-INFO 英联微波

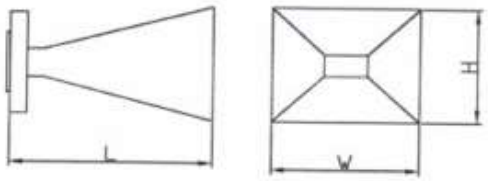
LB-10-25
75.0 - 110.0GHz 标准增益喇叭天线

技术指标

| | |
|---|---|
| 频率(GHz) | 75.0 - 110.0 |
| 增益(dB) | 25 典型值 |
| 驻波 | 1.6 最大值 |
| 3dB 波束宽度(°) | 10 典型值 |
| 波导型号 | BJ900(WR10) |
| 材料 | 铜 |
| 输出形式 | A 型: FUGP900 |
| 尺寸(mm) 宽 x 高 x 长 | A 型: 28x22x70 |
| 净重(Kg) | A 型: 约 0.05 |

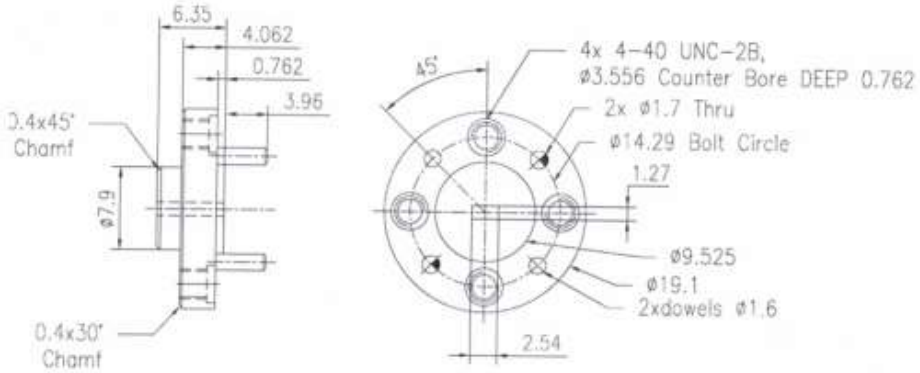
外形图 (尺寸: mm)

A 型




宽 x 高 x 长: 28x22x70

法兰外形图 (尺寸: mm)




FUGP900
(equivalent to UG-387/U modified)

英联微波
北京 电话: 010-6266-7326 或 010-6266-7327 传真: 010-6266-7379 网址:www.ainfoinc.com
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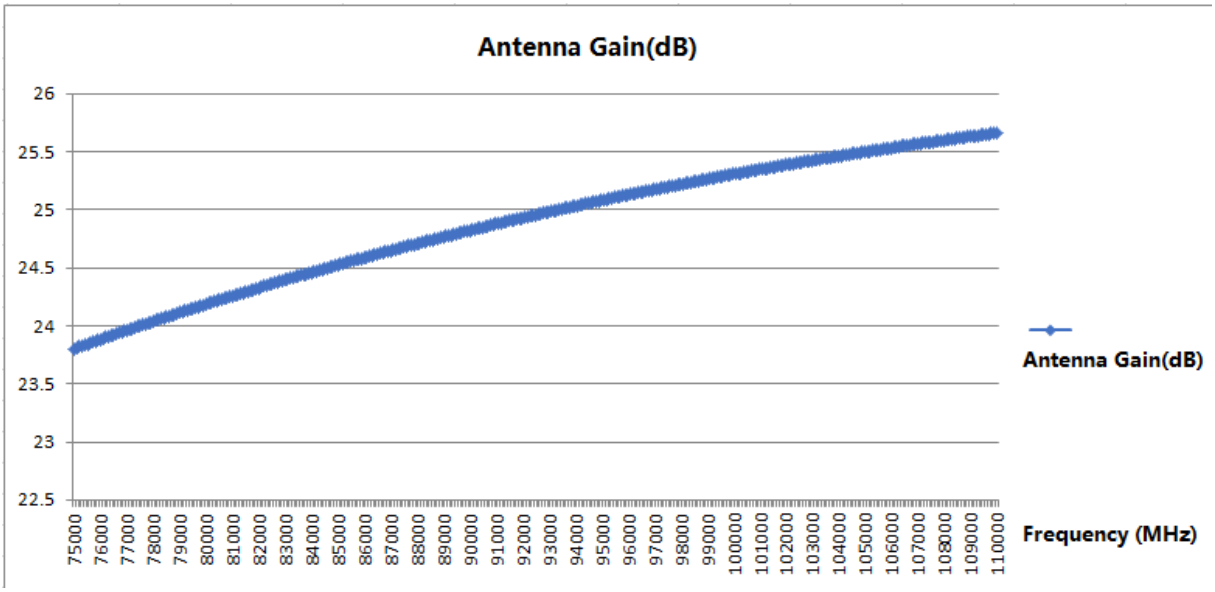


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