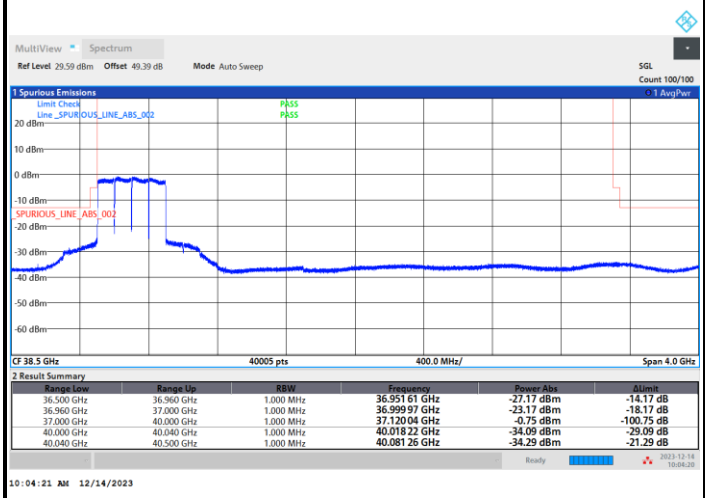
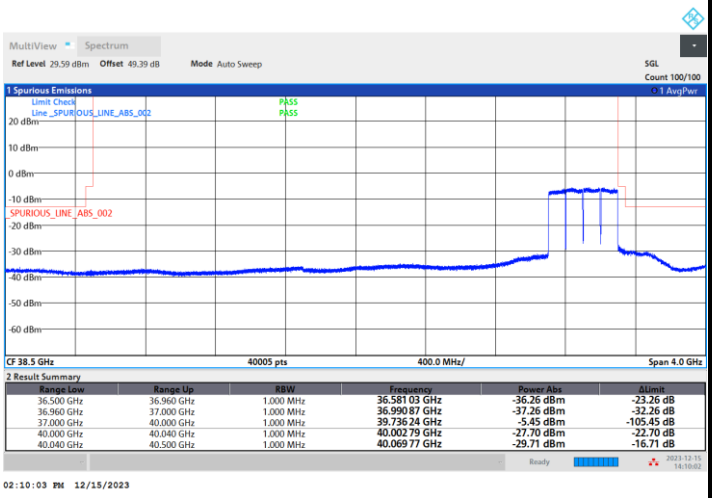
**CP-OFDM Module B**

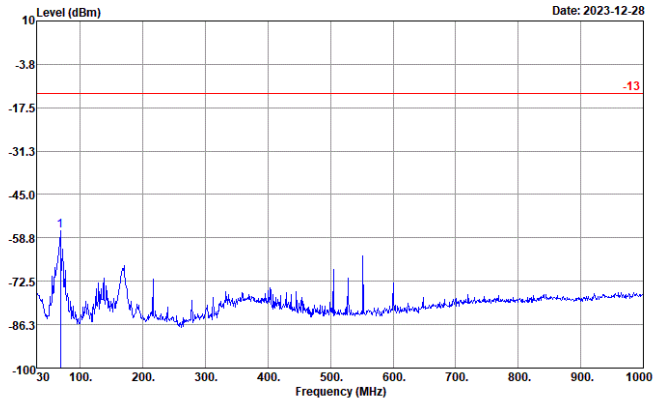
| NR Band n260 / 400MHz / QPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

# Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

Only the noise floor is reported.

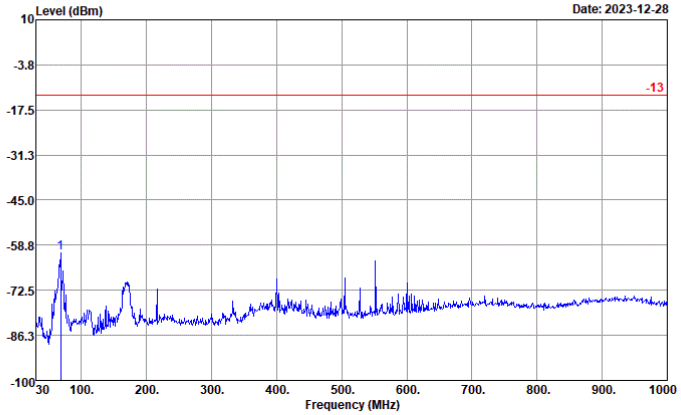
| NR Band n260 (30MHz-1GHz) |
|---|
| Horizontal |




Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 3N2327
: n260 MB

| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 67.83 | -56.54 | -43.54 | -13.00 |

| Vertical |
|---|

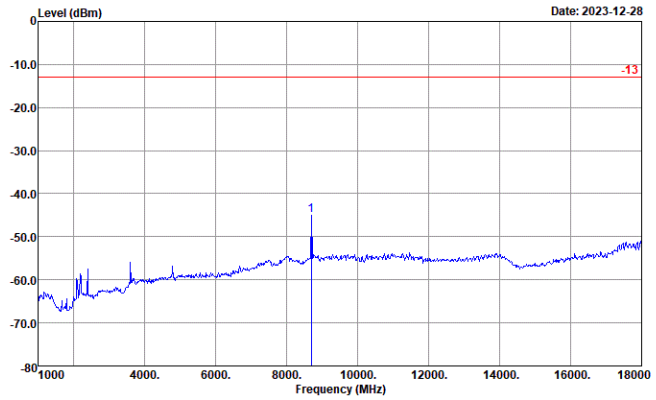



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 3N2327
: n260 MB

| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 67.83 | -61.08 | -48.08 | -13.00 |

## NR Band n260 (1GHz-18GHz)

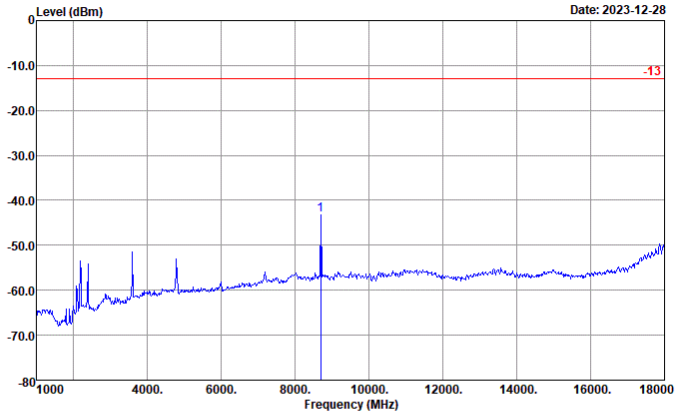
### Horizontal




Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 3N2327
: n260 MB

| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 8701.00 | -45.00 | -32.00 | -13.00 |

### Vertical

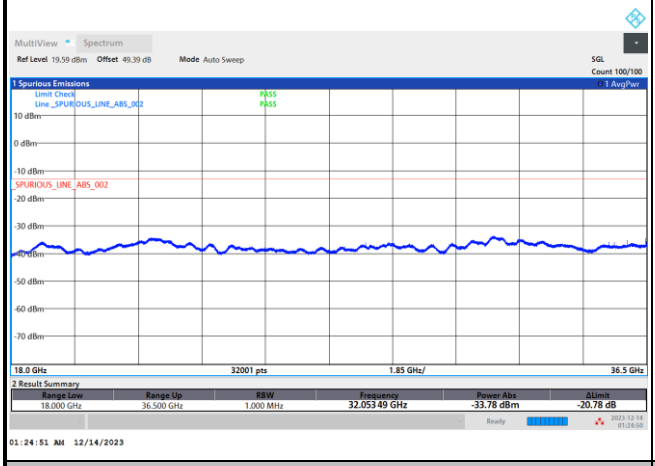
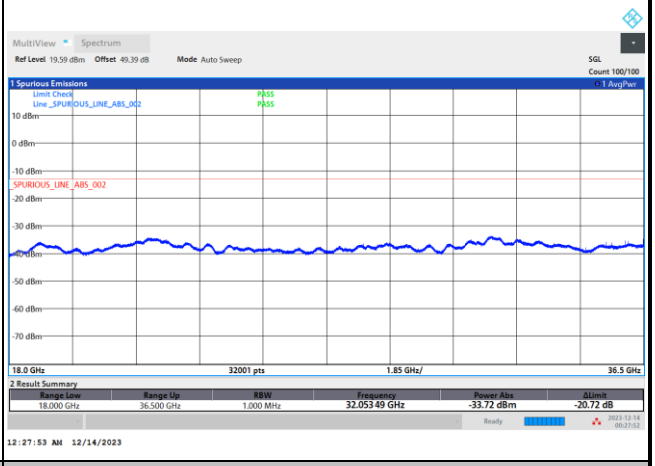
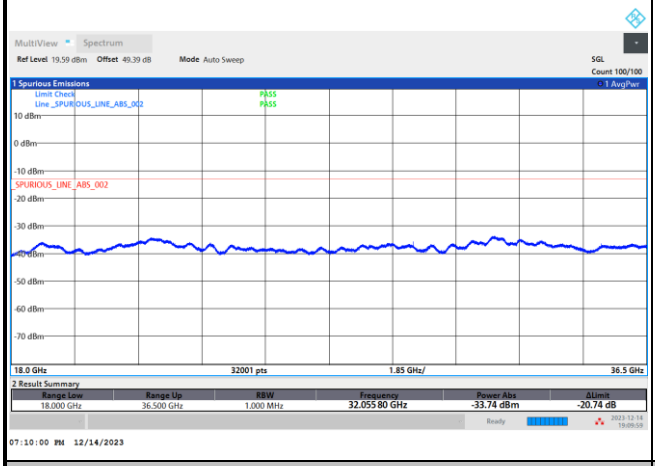
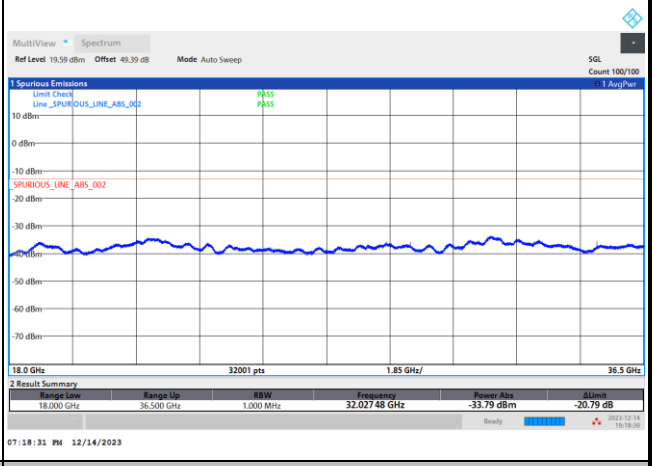
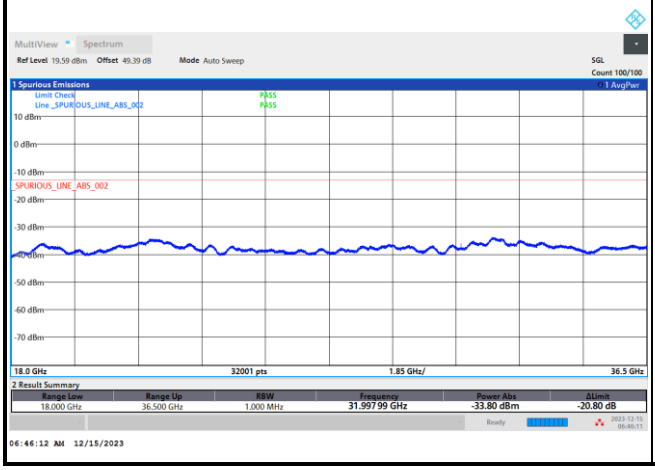
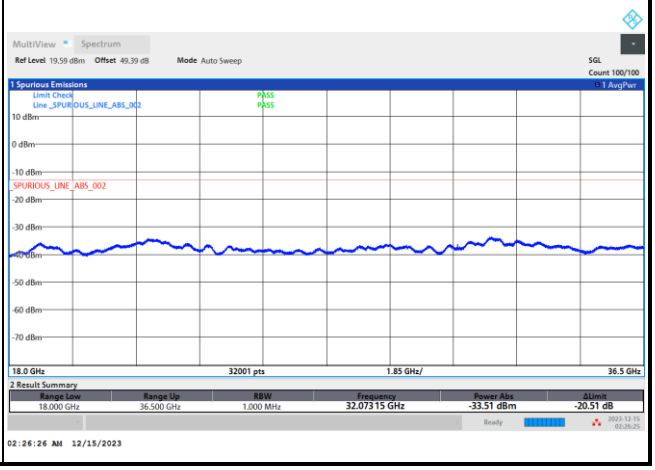



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 3N2327
: n260 MB

| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 8701.00 | -43.22 | -30.22 | -13.00 |

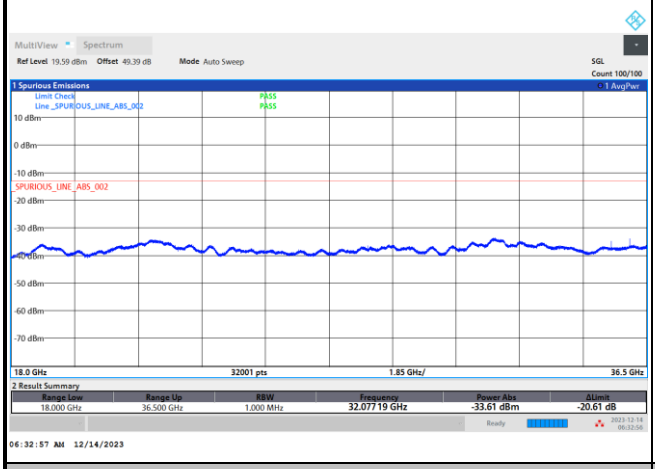
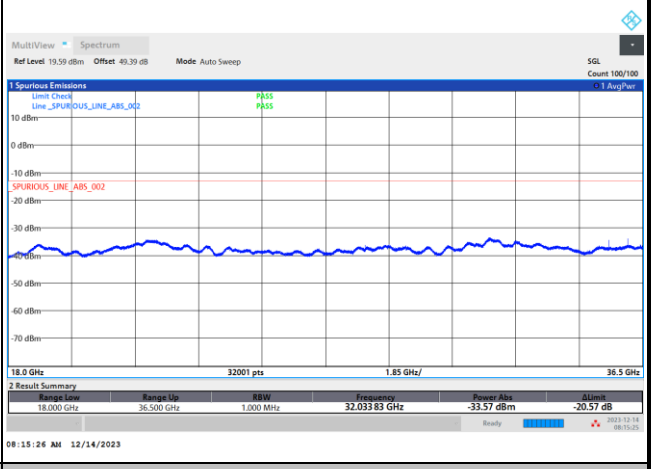
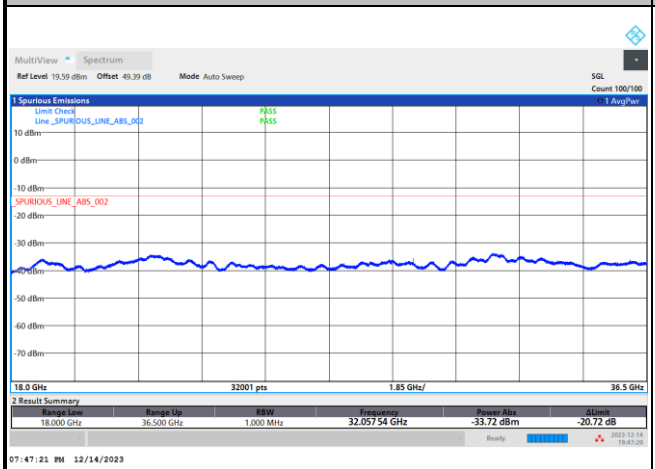
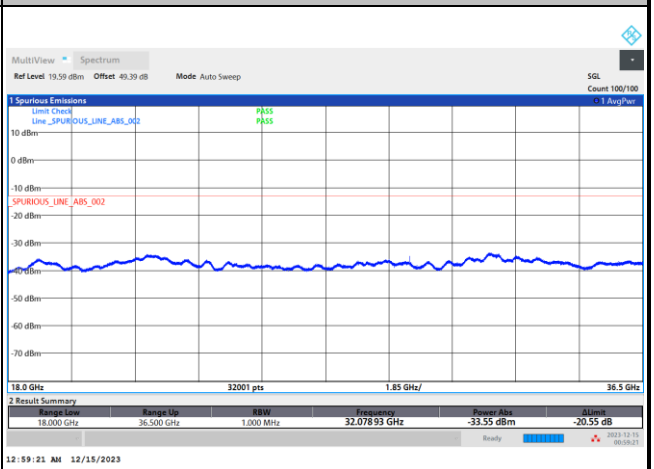
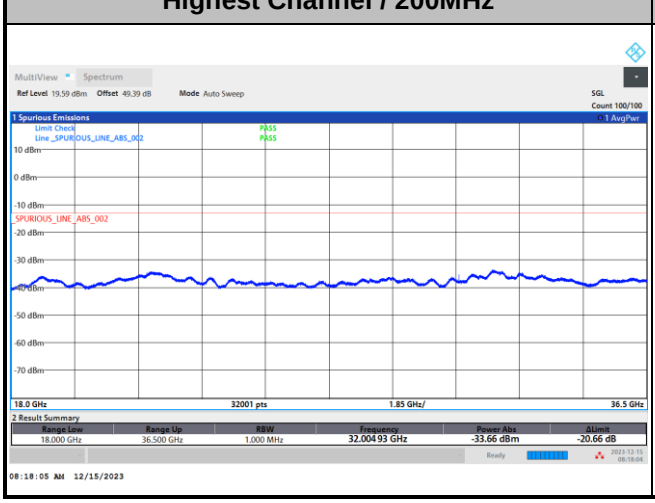
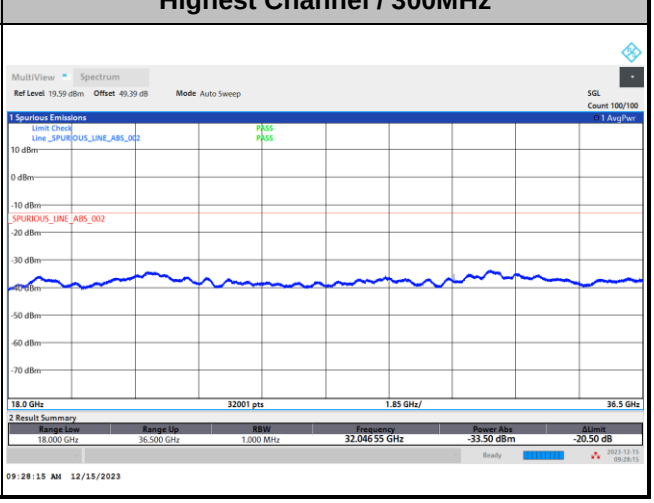
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

**DFT-s-OFDM Module B**

| NR Band n260 QPSK (18-40GHz) | |
|---|---|
| Lowest Channel / 50MHz | Lowest Channel / 100MHz |
|  |  |
| Middle Channel / 50MHz | Middle Channel / 100MHz |
|  |  |
| Highest Channel / 50MHz | Highest Channel / 100MHz |
|  |  |

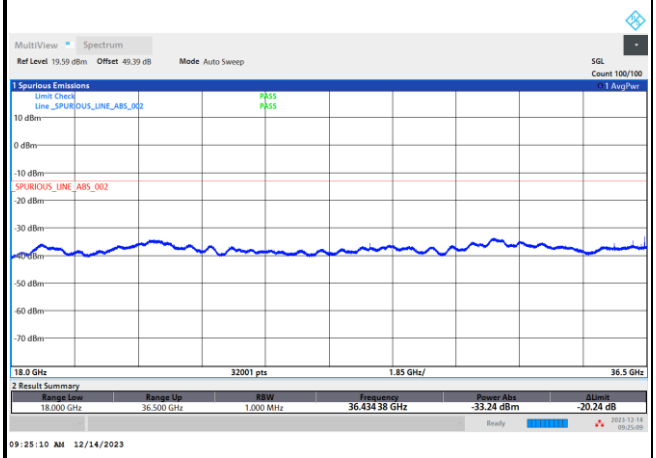
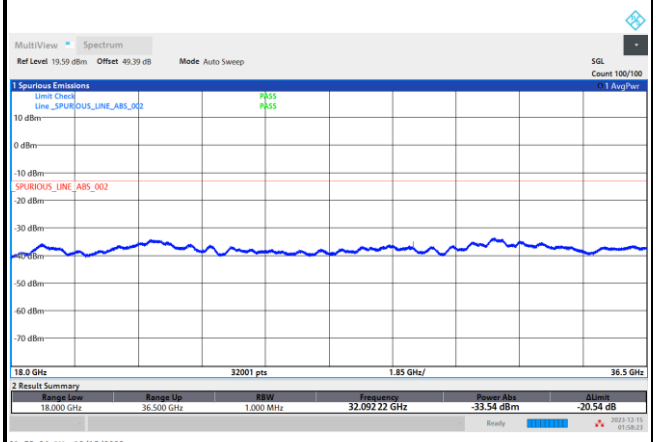
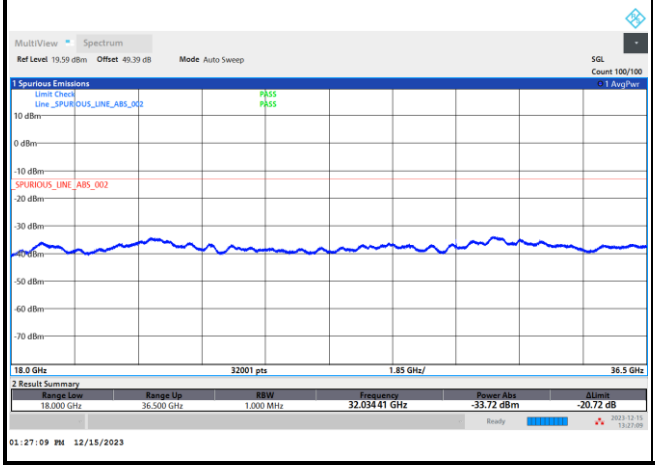
Remark: In band and out of band frequencies are omitted.

**DFT-s-OFDM Module B**

| NR Band n260 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | **Lowest Channel / 300MHz** |
|  |  |
| **Middle Channel / 200MHz** | **Middle Channel / 300MHz** |
|  |  |
| **Highest Channel / 200MHz** | **Highest Channel / 300MHz** |
|  |  |

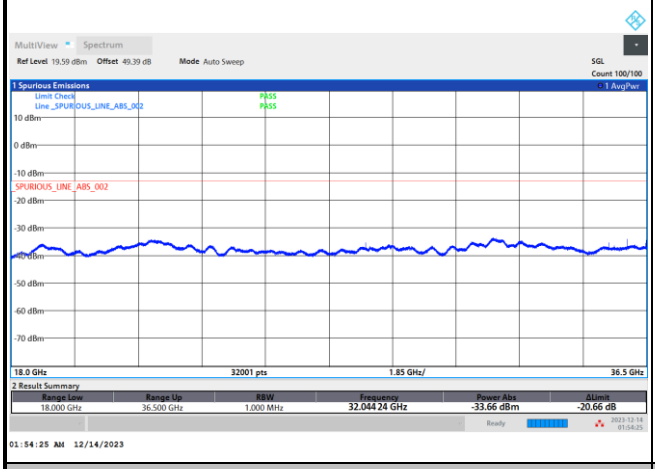
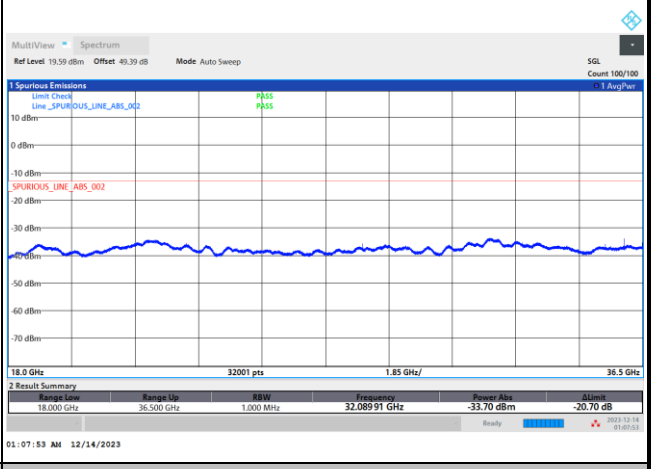
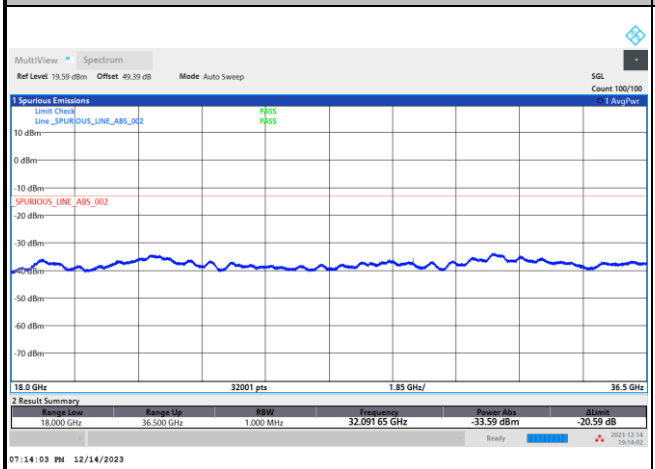
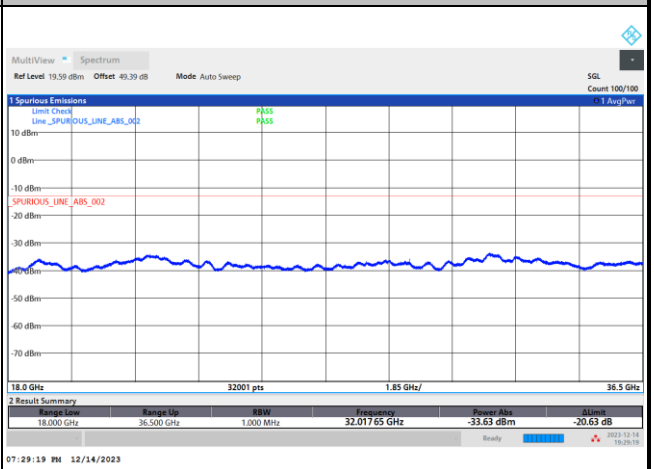
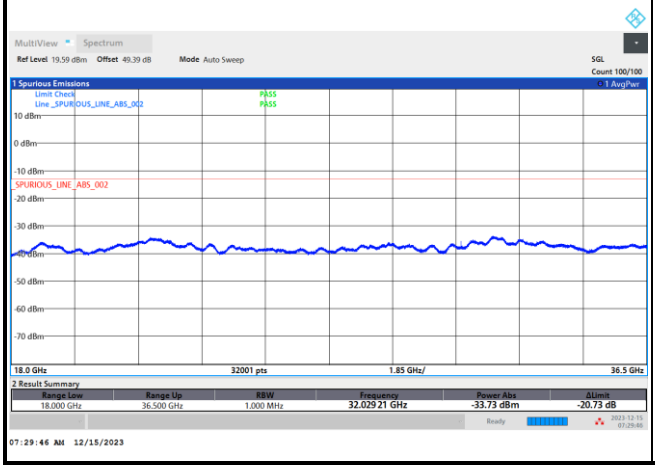
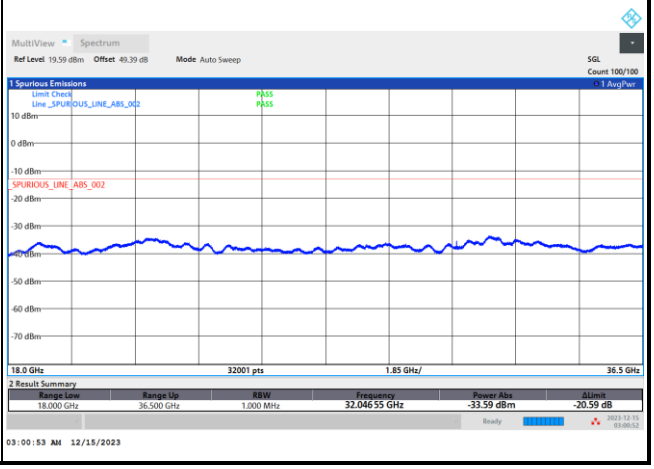
Remark: In band and out of band frequencies are omitted.

**DFT-s-OFDM Module B**

| NR Band n260 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 400MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 400MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 400MHz** | |
|  | **intentionally blank** |

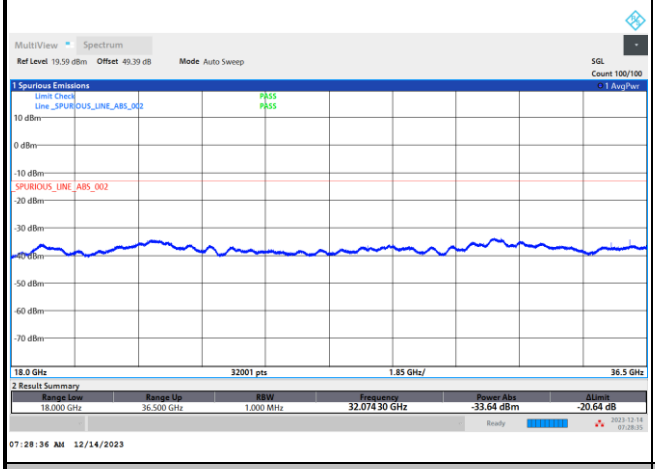
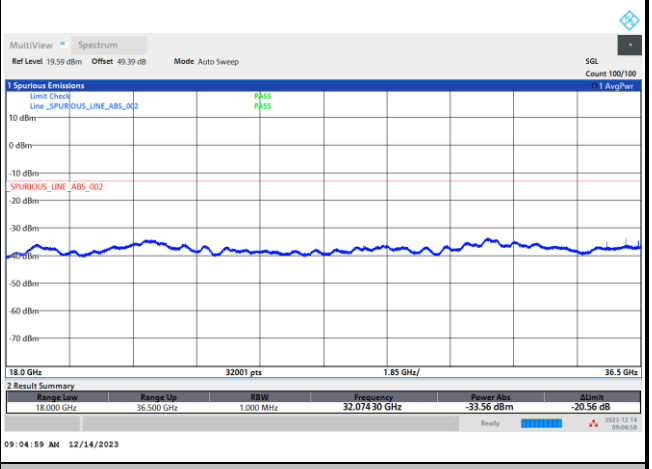
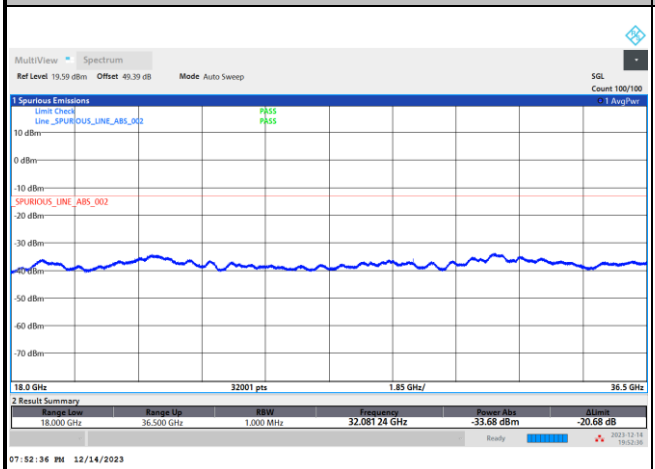
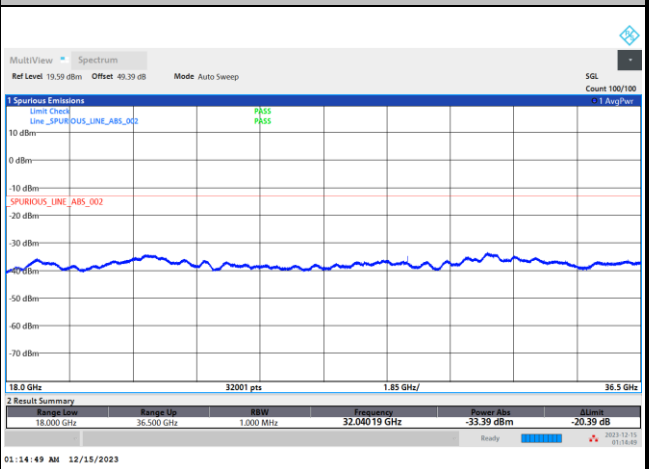
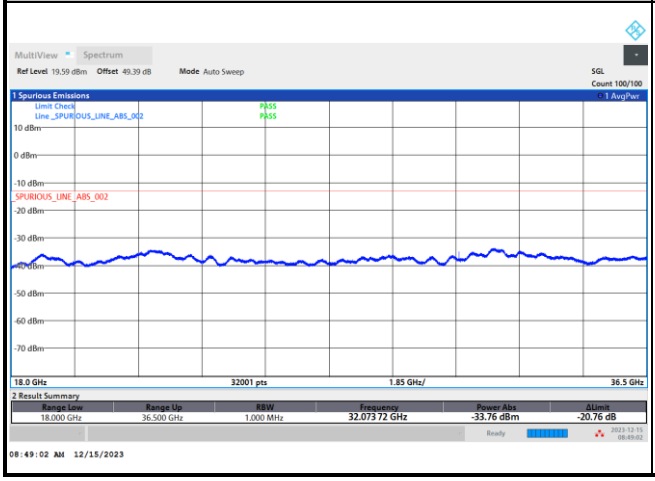
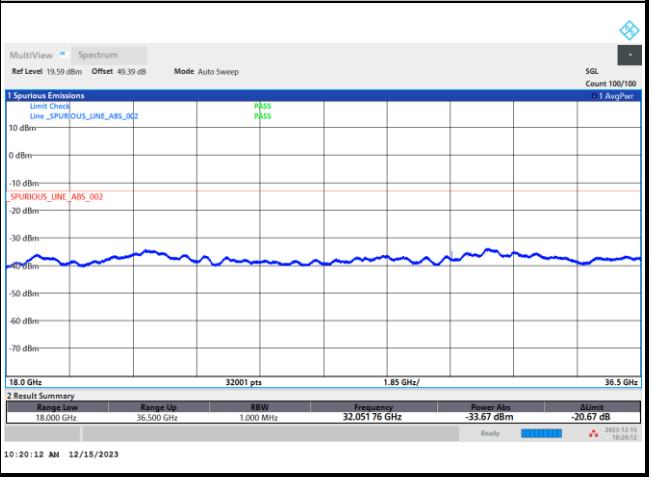
Remark: In band and out of band frequencies are omitted.

**CP-OFDM Module B**

| NR Band n260 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 50MHz** | **Lowest Channel / 100MHz** |
|  |  |
| **Middle Channel / 50MHz** | **Middle Channel / 100MHz** |
|  |  |
| **Highest Channel / 50MHz** | **Highest Channel / 100MHz** |
|  |  |

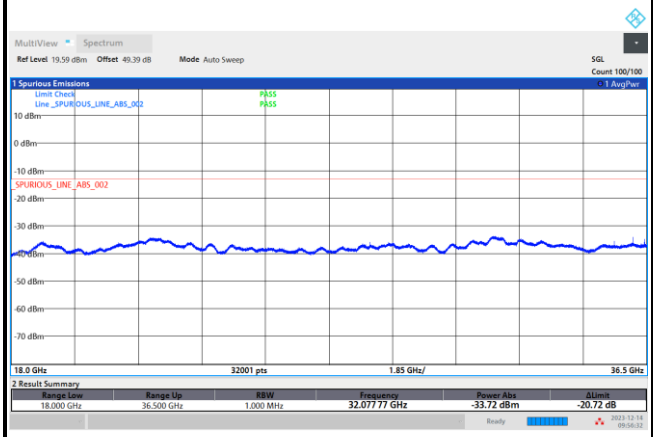
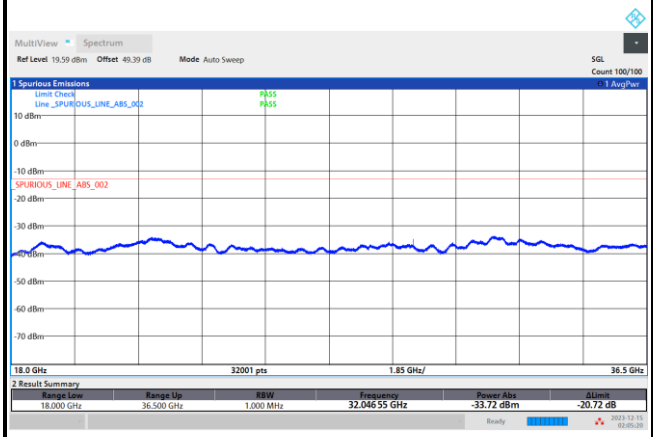
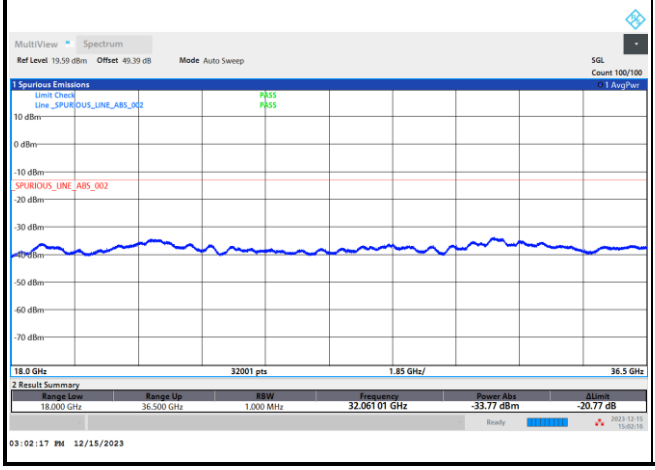
Remark: In band and out of band frequencies are omitted.

**CP-OFDM Module B**

| NR Band n260 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | **Lowest Channel / 300MHz** |
|  |  |
| **Middle Channel / 200MHz** | **Middle Channel / 300MHz** |
|  |  |
| **Highest Channel / 200MHz** | **Highest Channel / 300MHz** |
|  |  |

Remark: In band and out of band frequencies are omitted.

**CP-OFDM Module B**

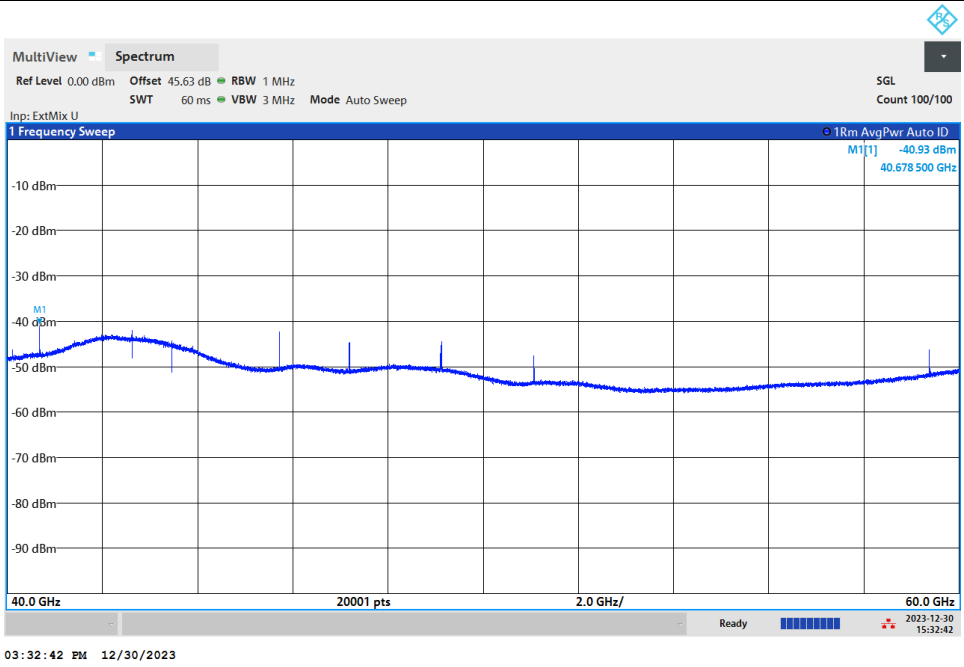
| NR Band n260 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 400MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 400MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 400MHz** | |
|  | **intentionally blank** |

Remark: In band and out of band frequencies are omitted.

There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.

Only the noise floor is reported.

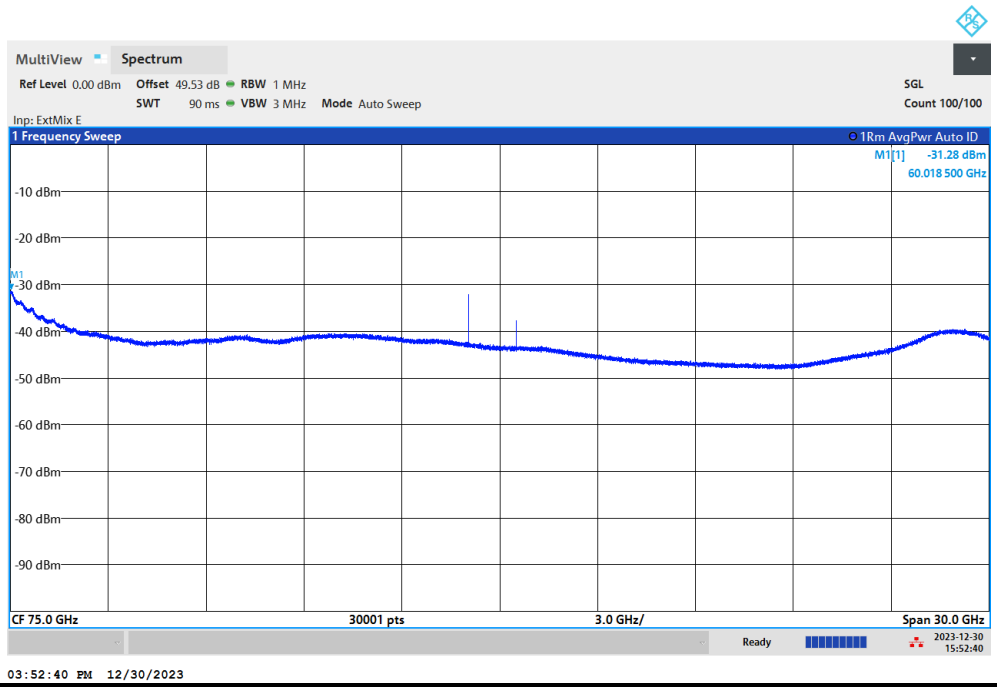
| NR Band n260 |
| --- |
| (40GHz-60GHz) |




*Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8*

*= 43 + 0.43 + 107 + 20log(1) – 104.8 = 45.63(dB)*

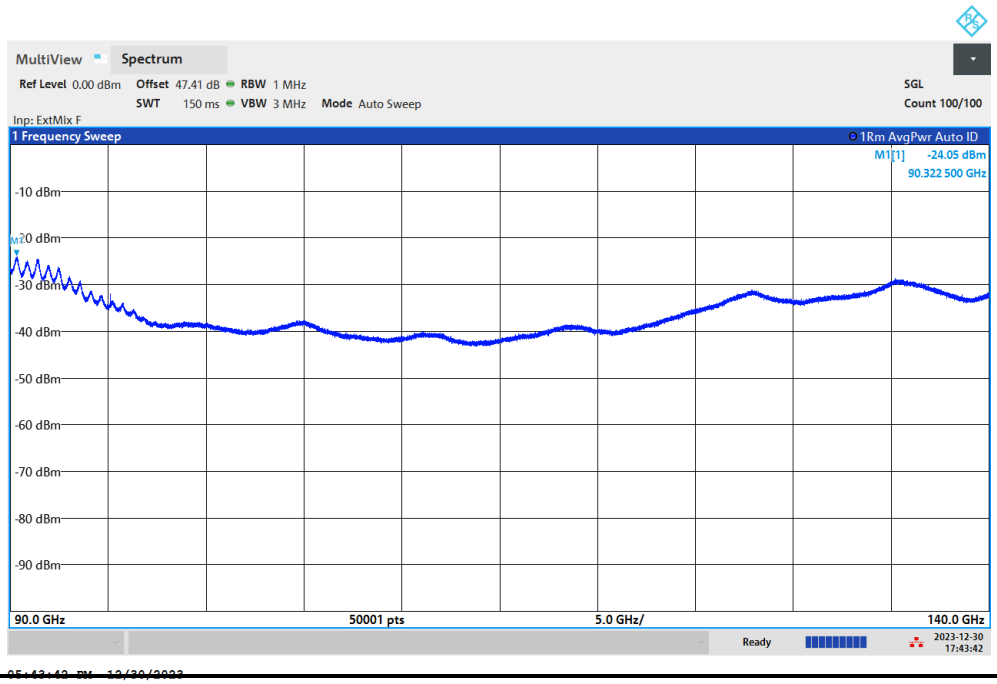
| NR Band n260 |
| --- |
| (60GHz-90GHz) |




*Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8*

*= 46.9 + 0.43 + 107 + 20log(1) – 104.8 = 49.53 (dB)*

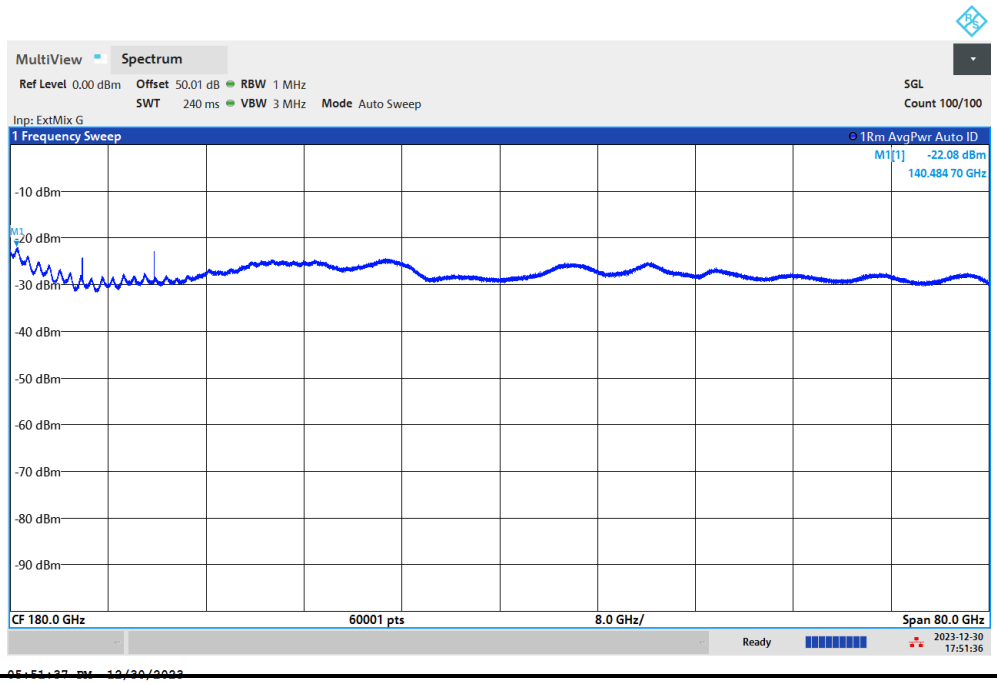
| NR Band n260 |
| --- |
| (90GHz-140GHz) |




*Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8*

*= 50.80 + 0.43 + 107 + 20log(0.5) – 104.8 = 47.41 (dB)*

| NR Band n260 |
| --- |
| (140GHz-200GHz) |




*Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8*

*= 53.4 + 0.43 + 107 + 20log(0.5) – 104.8 = 50.01(dB)*

# Frequency Stability

| Test Conditions | | NR Band n260 / Middle Channel | | | Limit |
|---|---|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | CW tone | | | Note 2. |
| | | Frequency (GHz) | Deviation (kHz) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 38.4997443 | 197.800 | 5.138 | Pass |
| 40 | Normal Voltage | 38.4998501 | 92.000 | 2.390 | |
| 30 | Normal Voltage | 38.4999001 | 42.000 | 1.091 | |
| 20(Ref.) | Normal Voltage | 38.4999421 | 0.000 | 0.000 | |
| 10 | Normal Voltage | 38.500042 | -99.900 | 2.595 | |
| 0 | Normal Voltage | 38.50005 | -107.900 | 2.803 | |
| -10 | Normal Voltage | 38.5000559 | -113.800 | 2.956 | |
| -20 | Normal Voltage | 38.5000639 | -121.800 | 3.164 | |
| -30 | Normal Voltage | 38.5000714 | -129.300 | 3.358 | |
| 20 | Maximum Voltage | 38.499956 | -13.900 | 0.361 | |
| 20 | Normal Voltage | 38.4999481 | -6.000 | 0.156 | |
| 20 | Battery End Point | 38.4999401 | 2.000 | 0.052 | |

**Note:**

**1.** Normal Voltage = 3.89 V.；Battery End Point (BEP) = 3.6 V.；Maximum Voltage = 4.4 V.

**2.** The frequency fundamental emissions stay within the operation band.

# NR Band n261 Module A AGH+V

## Occupied Bandwidth

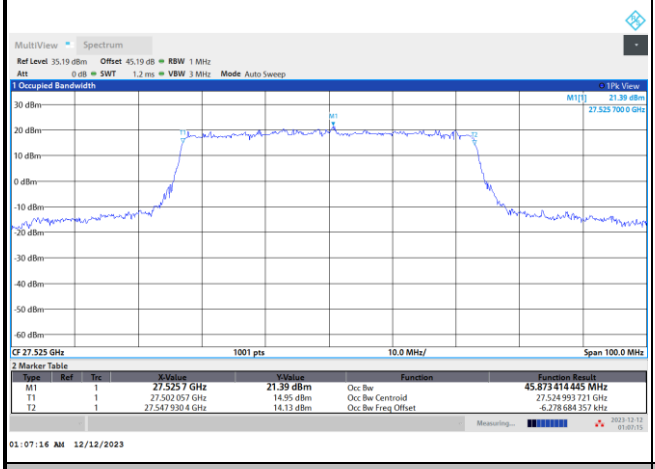
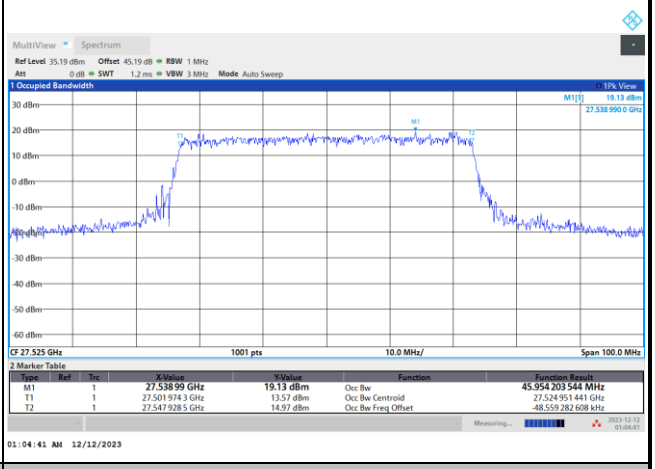
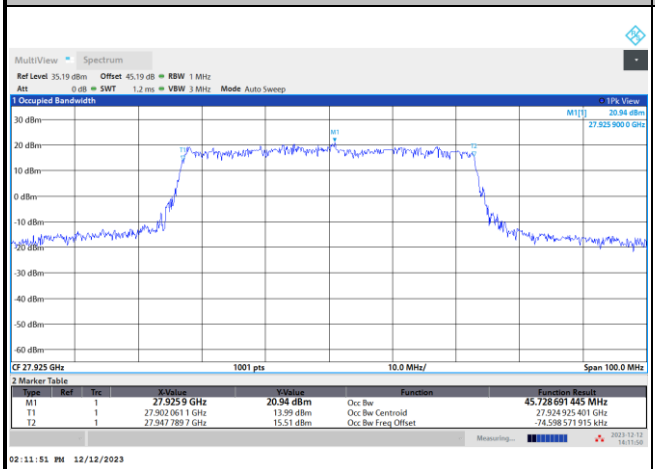
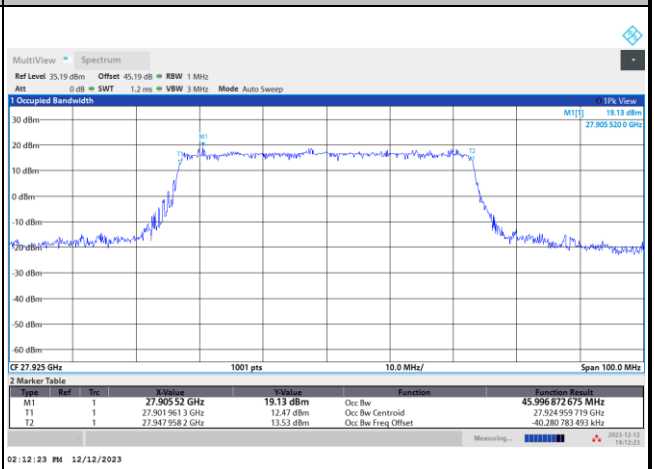
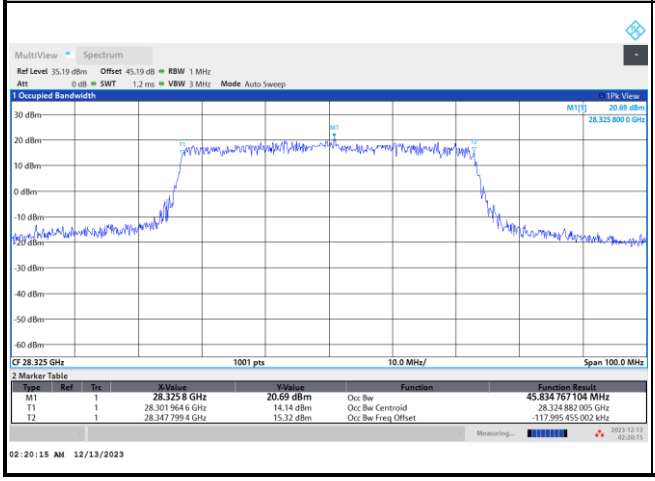
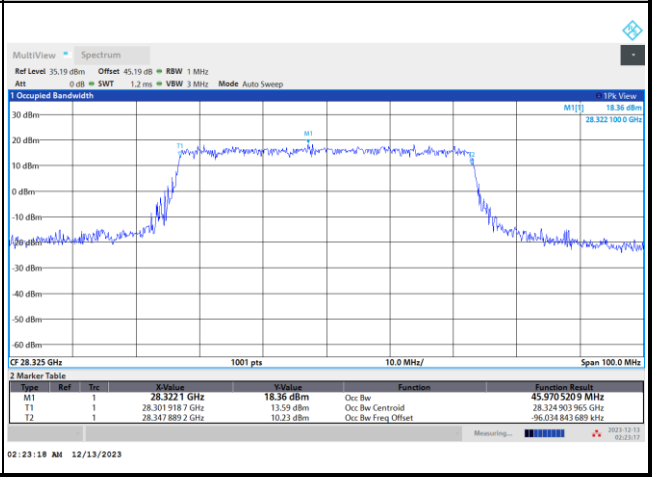
| Mode | DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW | 50MHz | | | 100MHz | | | 200MHz | | |
| Mod. | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Lowest CH | 45.87 | 45.95 | 45.78 | 91.05 | 91.01 | 91.03 | 190.82 | 190.93 | 190.61 |
| Middle CH | 45.72 | 45.99 | 45.75 | 90.99 | 90.98 | 90.96 | 191.15 | 191.25 | 190.78 |
| Highest CH | 45.83 | 45.97 | 45.78 | 91.17 | 91.10 | 91.04 | 190.84 | 190.77 | 190.87 |

| Mode | DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz) | | | | | |
|---|---|---|---|---|---|---|
| BW | 300MHz | | | 400MHz | | |
| Mod. | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Lowest CH | 290.16 | 289.97 | 289.76 | 388.34 | 388.27 | 388.32 |
| Middle CH | 290.10 | 290.23 | 289.46 | 389.04 | 389.29 | 388.83 |
| Highest CH | 289.82 | 289.61 | 289.09 | 388.64 | 388.80 | 388.43 |

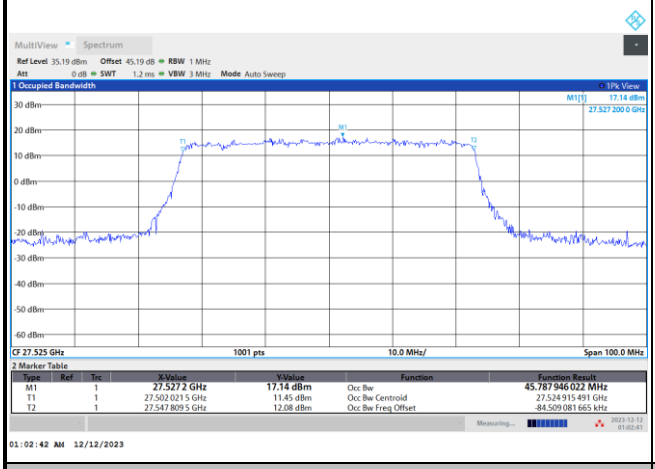
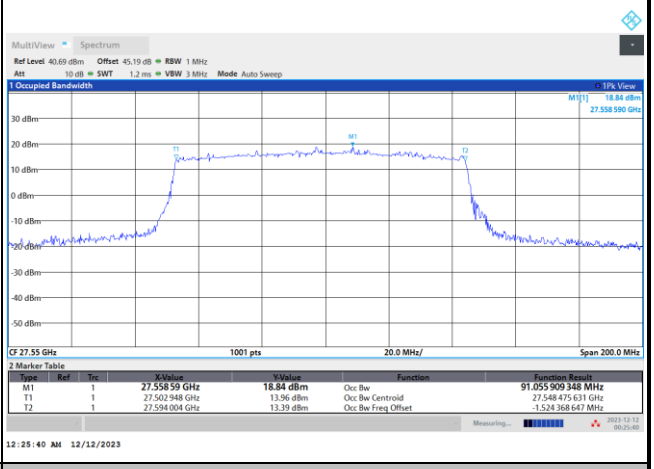
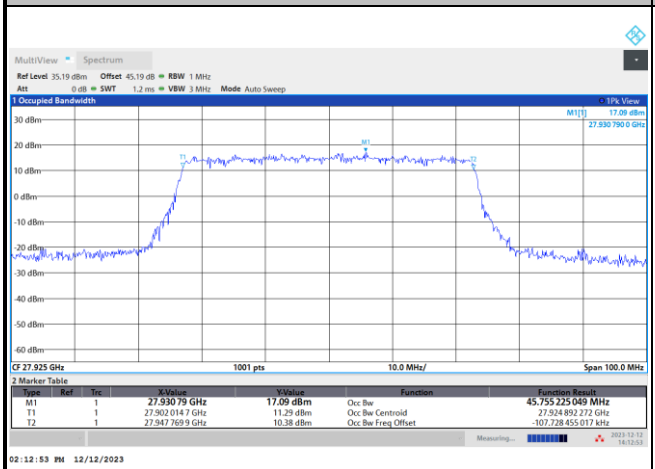
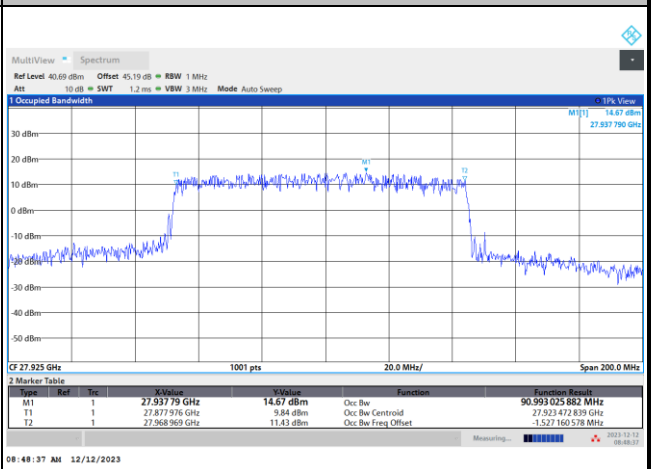
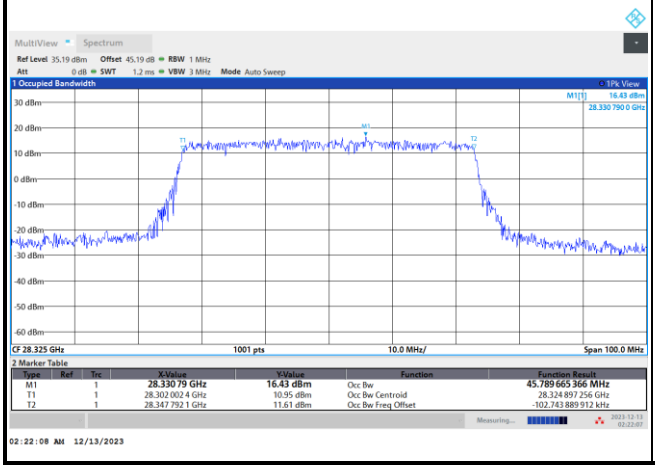
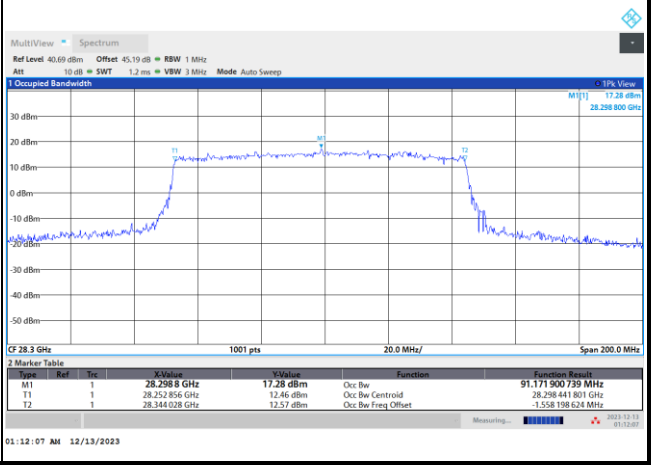
| Mode | CP-OFDM Module A NR Band n261 : 99%OBW(MHz) | | |
|---|---|---|---|
| BW | 50MHz | 100MHz | 200MHz |
| Mod. | QPSK | QPSK | QPSK |
| Lowest CH | 46.03 | 93.67 | 193.61 |
| Middle CH | 45.88 | 93.90 | 194.24 |
| Highest CH | 45.75 | 93.77 | 193.49 |

| Mode | CP-OFDM Module A NR Band n261 : 99%OBW(MHz) | |
|---|---|---|
| BW | 300MHz | 400MHz |
| Mod. | QPSK | QPSK |
| Lowest CH | 293.34 | 390.71 |
| Middle CH | 294.10 | 391.82 |
| Highest CH | 294.56 | 393.62 |

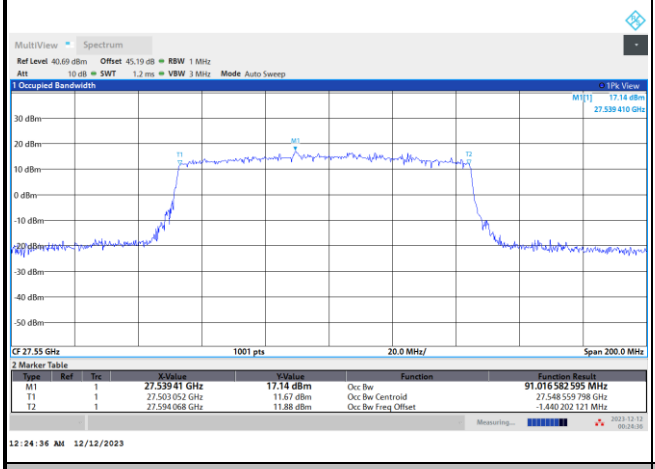
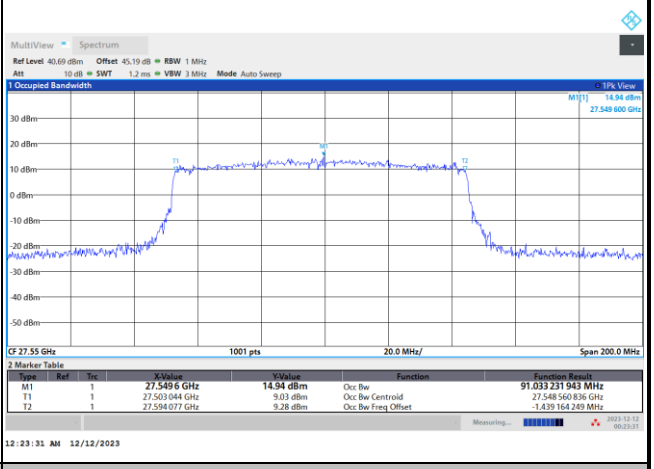
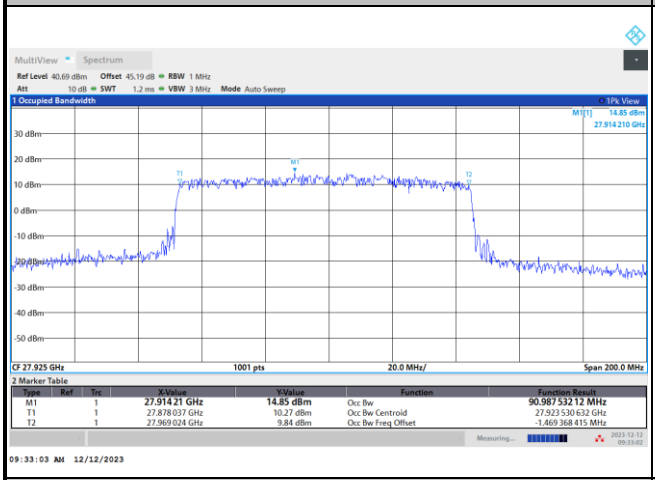
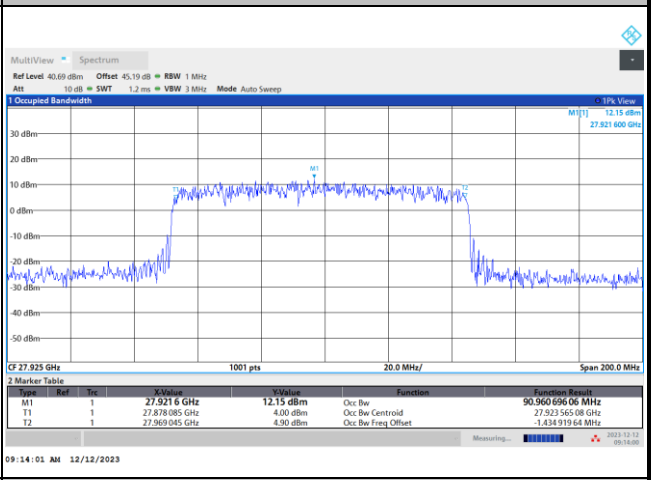
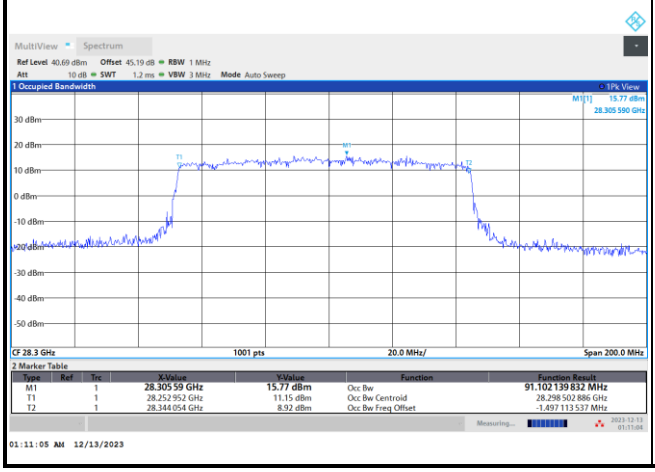
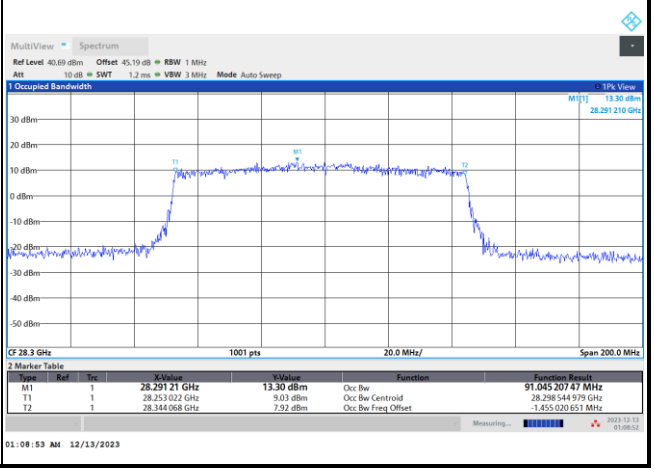
**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 50MHz / QPSK** | **Lowest Channel / 50MHz / 16QAM** |
|  |  |
| **Middle Channel / 50MHz / QPSK** | **Middle Channel / 50MHz / 16QAM** |
|  |  |
| **Highest Channel / 50MHz / QPSK** | **Highest Channel / 50MHz / 16QAM** |
|  |  |

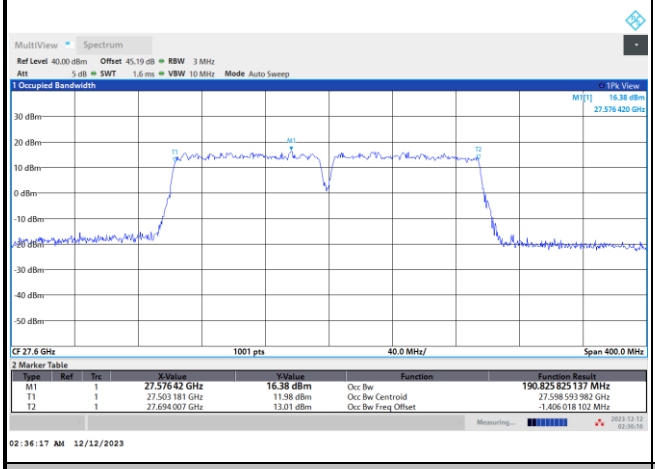
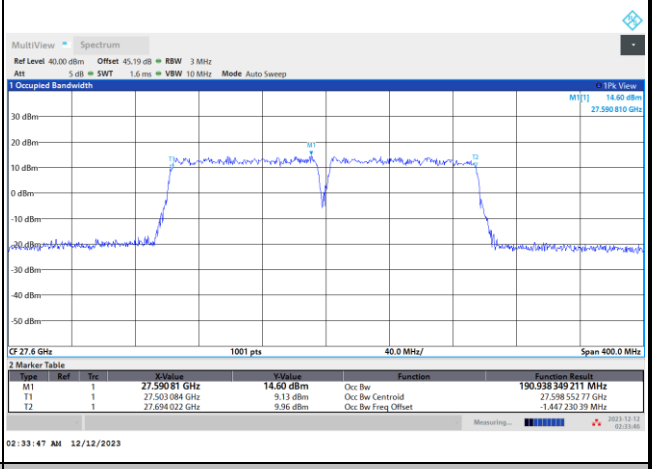
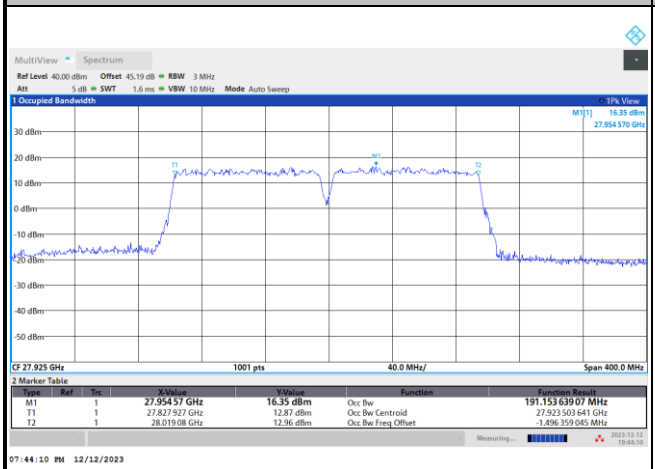
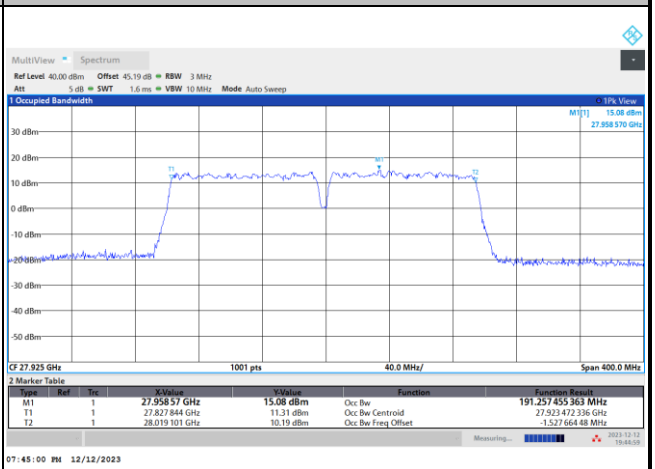
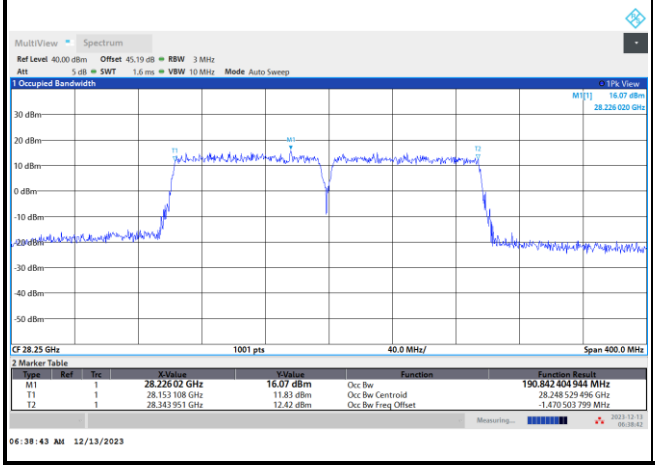
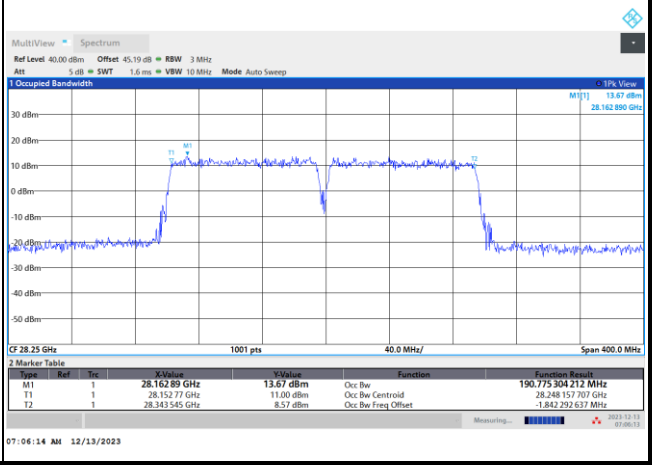
**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 50MHz / 64QAM** | **Lowest Channel / 100MHz / QPSK** |
|  |  |
| **Middle Channel / 50MHz / 64QAM** | **Middle Channel / 100MHz / QPSK** |
|  |  |
| **Highest Channel / 50MHz / 64QAM** | **Highest Channel / 100MHz / QPSK** |
|  |  |

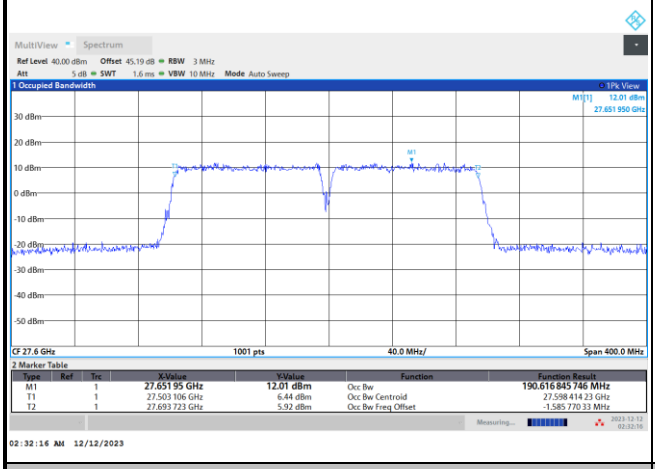
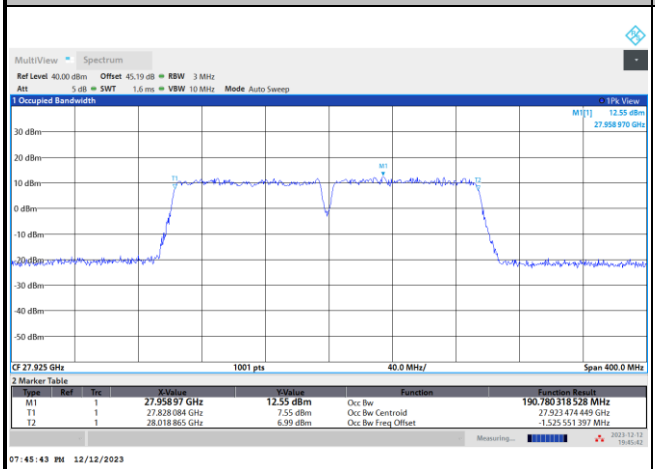
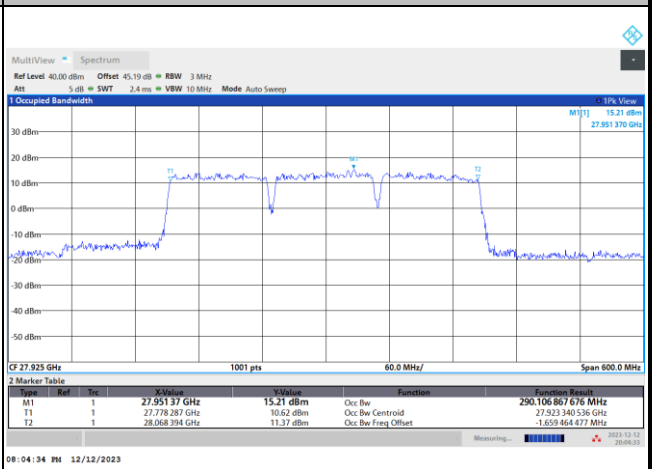
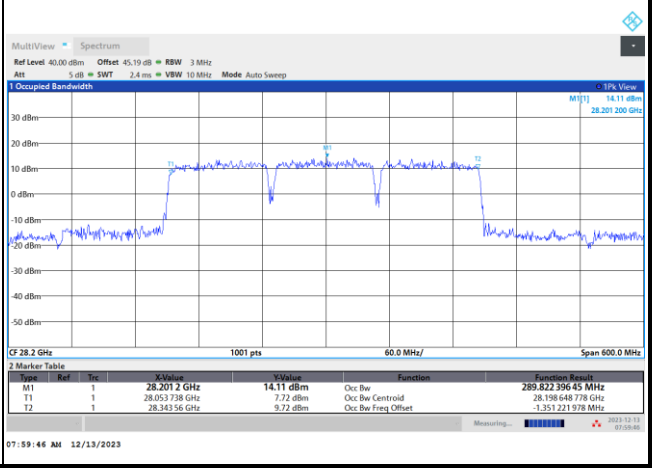
**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 100MHz / 16QAM** | **Lowest Channel / 100MHz / 64QAM** |
|  |  |
| **Middle Channel / 100MHz / 16QAM** | **Middle Channel / 100MHz / 64QAM** |
|  |  |
| **Highest Channel / 100MHz / 16QAM** | **Highest Channel / 100MHz / 64QAM** |
|  |  |

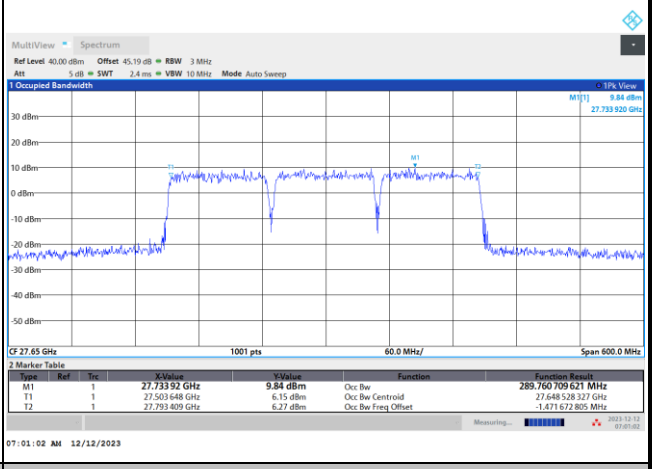
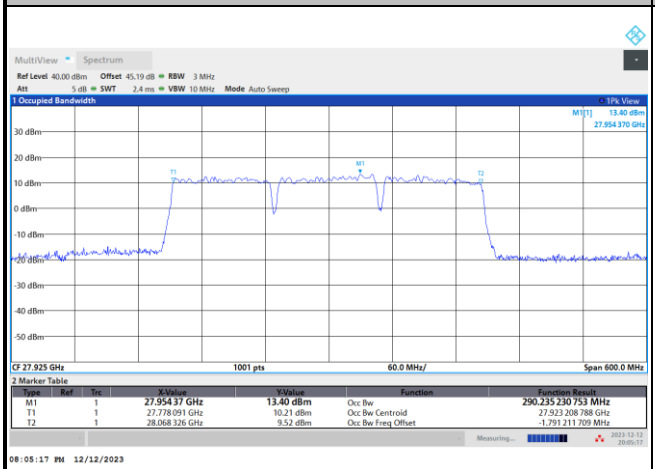
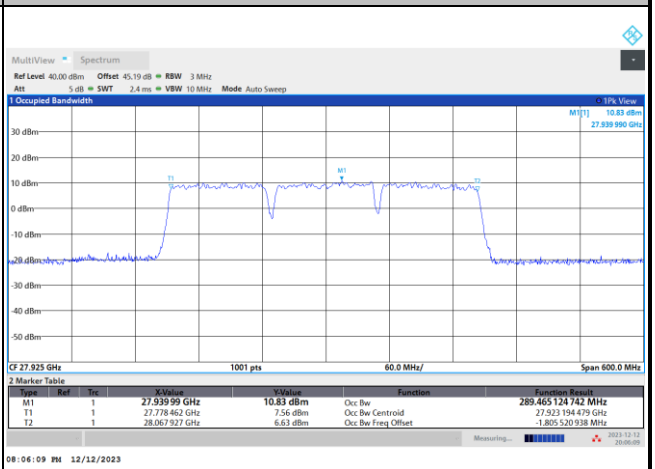
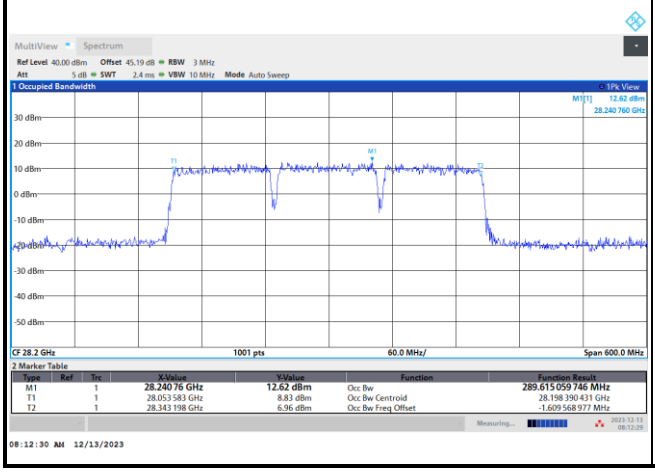
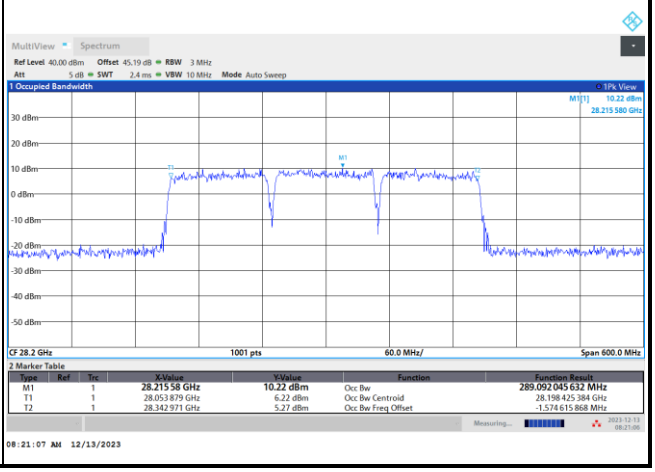
**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 200MHz / QPSK** | **Lowest Channel / 200MHz / 16QAM** |
|  |  |
| **Middle Channel / 200MHz / QPSK** | **Middle Channel / 200MHz / 16QAM** |
|  |  |
| **Highest Channel / 200MHz / QPSK** | **Highest Channel / 200MHz / 16QAM** |
|  |  |

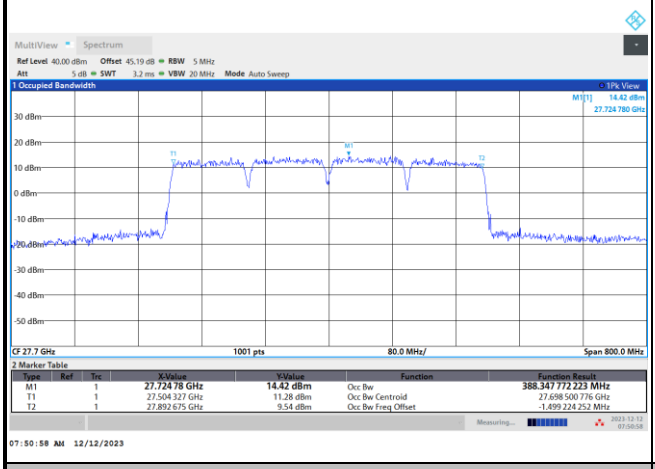
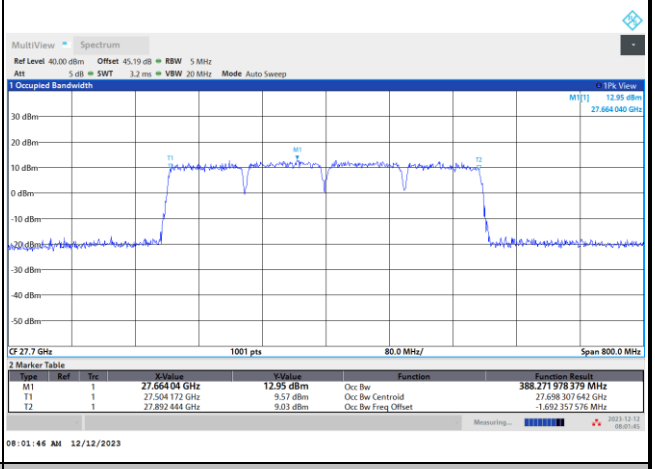
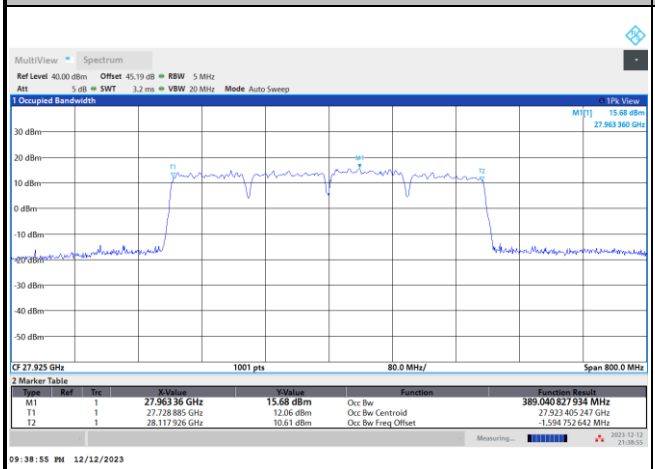
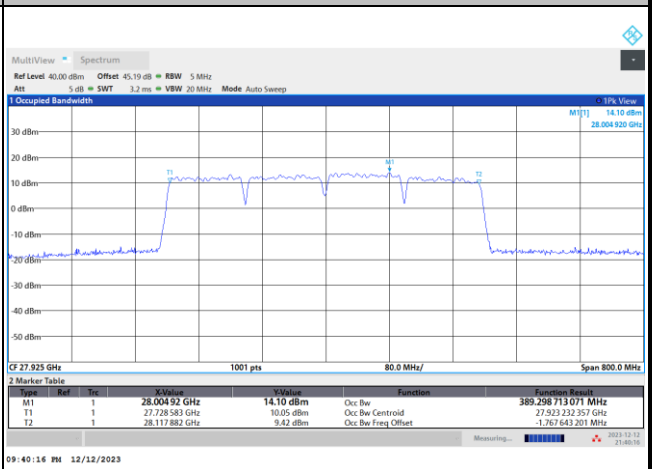
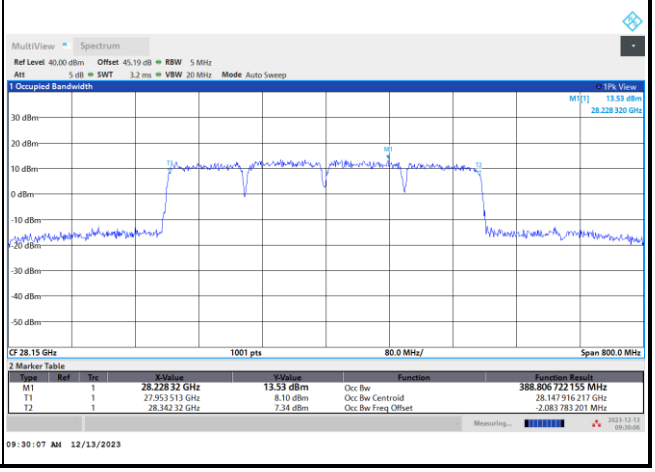
**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 200MHz / 64QAM** | **Lowest Channel / 300MHz / QPSK** |
|  |  |
| **Middle Channel / 200MHz / 64QAM** | **Middle Channel / 300MHz / QPSK** |
|  |  |
| **Highest Channel / 200MHz / 64QAM** | **Highest Channel / 300MHz / QPSK** |
|  |  |

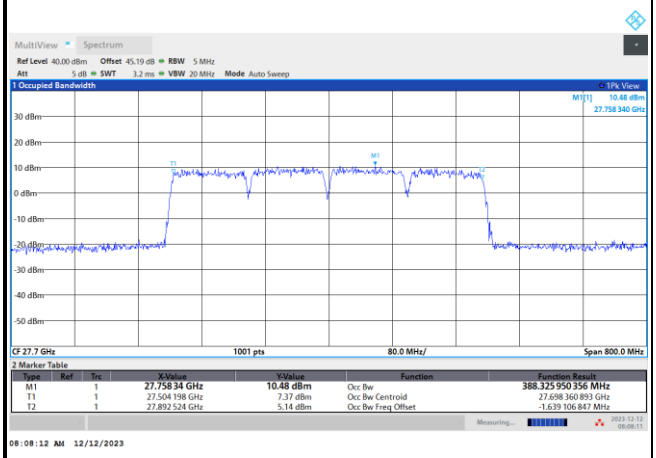
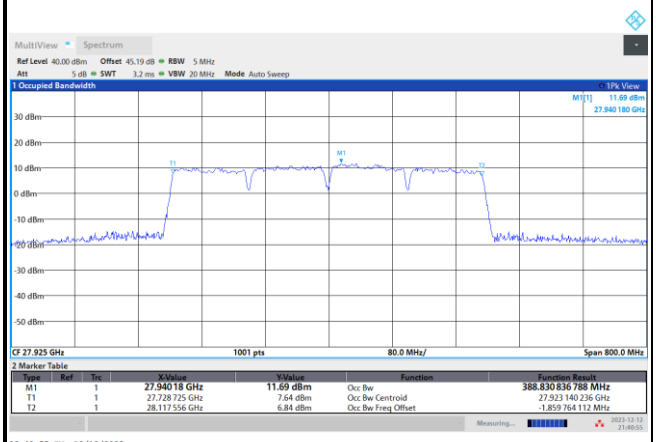
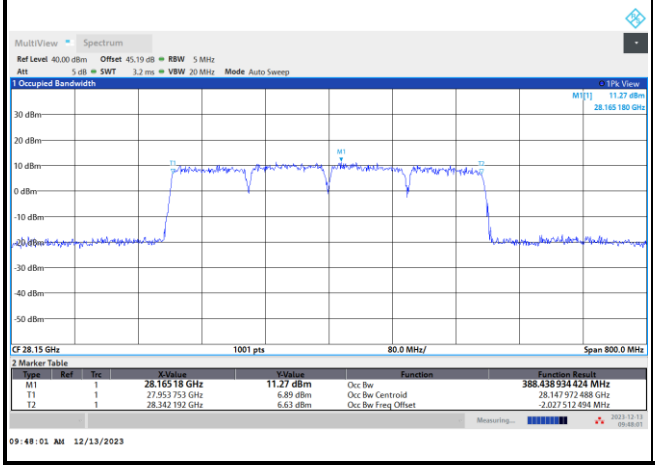
**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 300MHz / 16QAM** | **Lowest Channel / 300MHz / 64QAM** |
|  |  |
| **Middle Channel / 300MHz / 16QAM** | **Middle Channel / 300MHz / 64QAM** |
|  |  |
| **Highest Channel / 300MHz / 16QAM** | **Highest Channel / 300MHz / 64QAM** |
|  |  |

**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 400MHz / QPSK** | **Lowest Channel / 400MHz / 16QAM** |
|  |  |
| **Middle Channel / 400MHz / QPSK** | **Middle Channel / 400MHz / 16QAM** |
|  |  |
| **Highest Channel / 400MHz / QPSK** | **Highest Channel / 400MHz / 16QAM** |
|  |  |

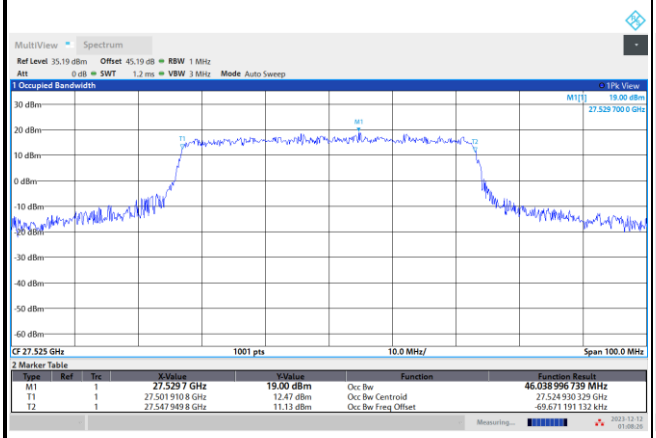
**DFT-s-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 400MHz / 64QAM** | |
|  | **intentionally blank** |
| **Middle Channel / 400MHz / 64QAM** | |
|  | **intentionally blank** |
| **Highest Channel / 400MHz / 64QAM** | |
|  | **intentionally blank** |

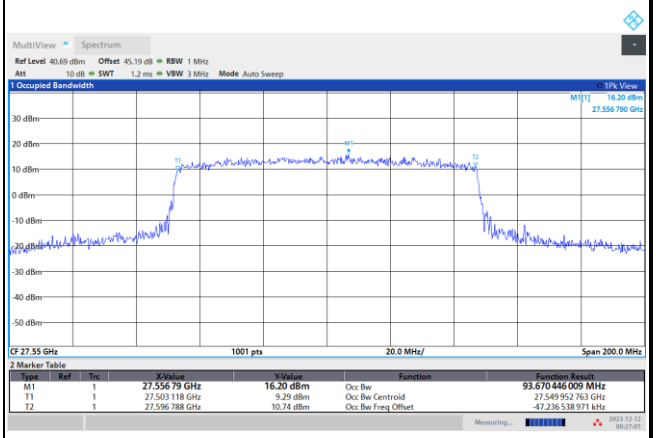
## CP-OFDM Module A

### NR Band n261

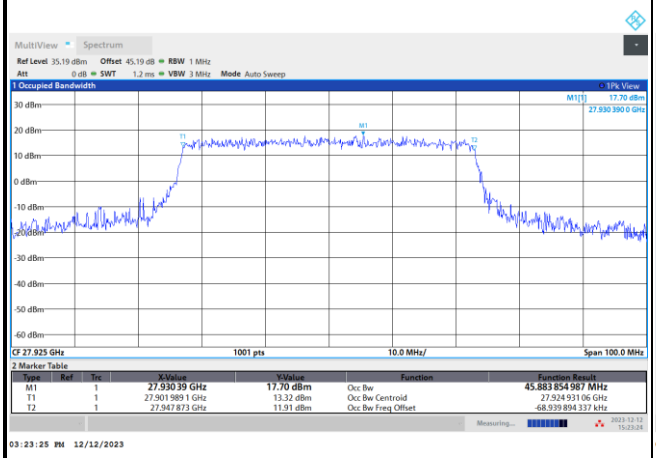
#### Lowest Channel / 50MHz / QPSK



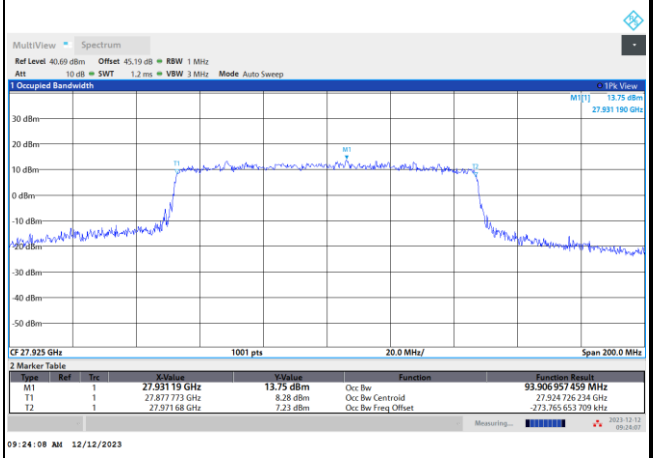

#### Lowest Channel / 100MHz / QPSK



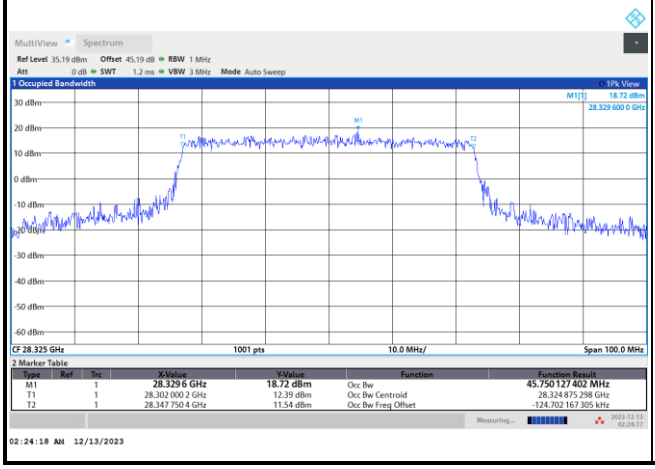

#### Middle Channel / 50MHz / QPSK



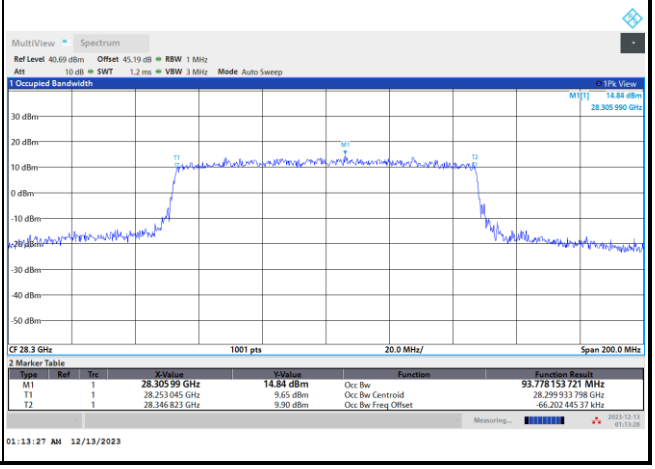

#### Middle Channel / 100MHz / QPSK




#### Highest Channel / 50MHz / QPSK



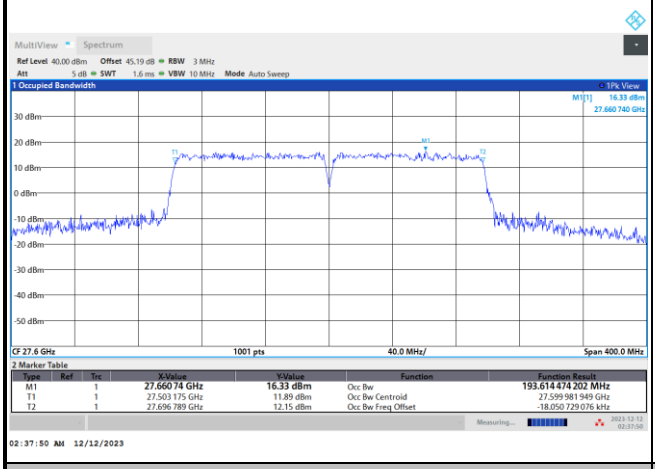

#### Highest Channel / 100MHz / QPSK



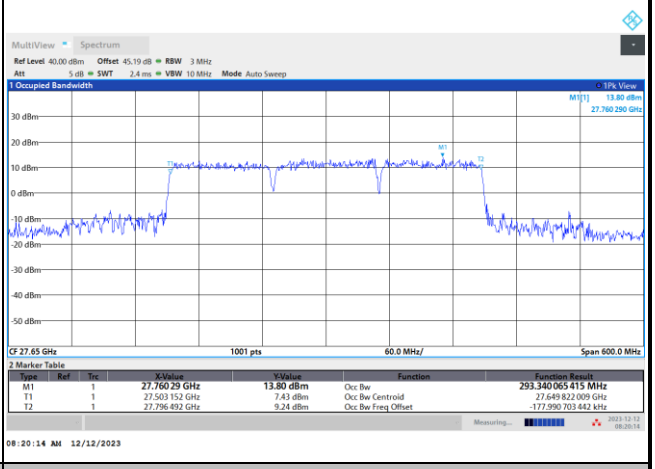
## CP-OFDM Module A

### NR Band n261

#### Lowest Channel / 200MHz / QPSK

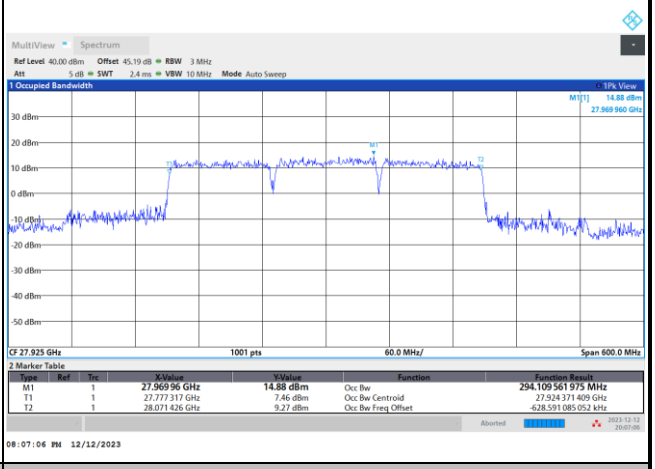



#### Lowest Channel / 300MHz / QPSK

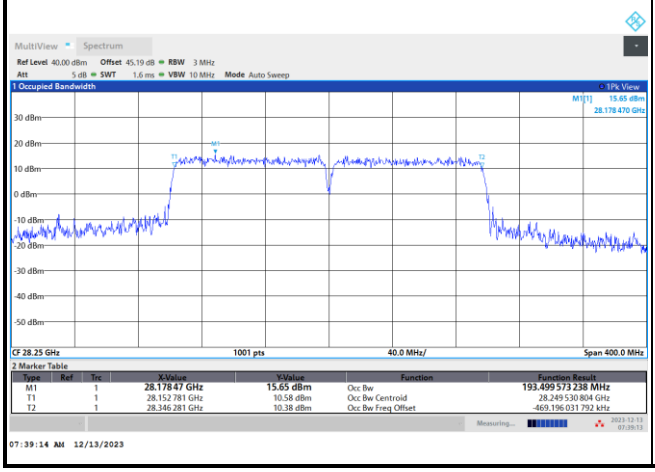



#### Middle Channel / 200MHz / QPSK

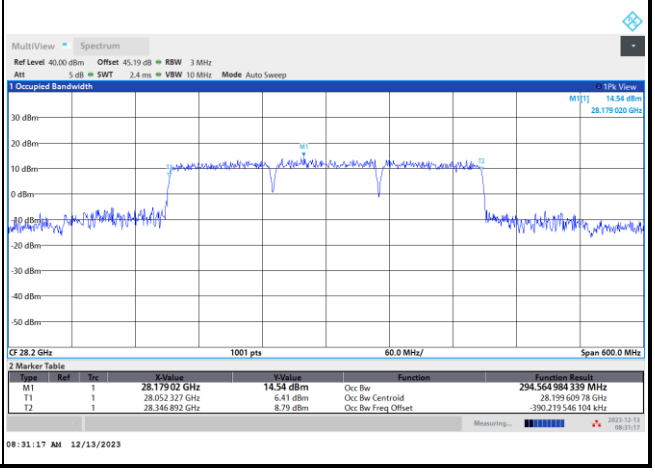

#### Middle Channel / 300MHz / QPSK



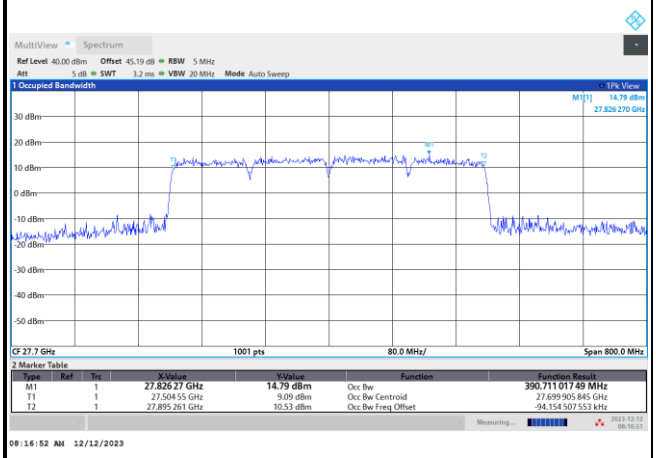
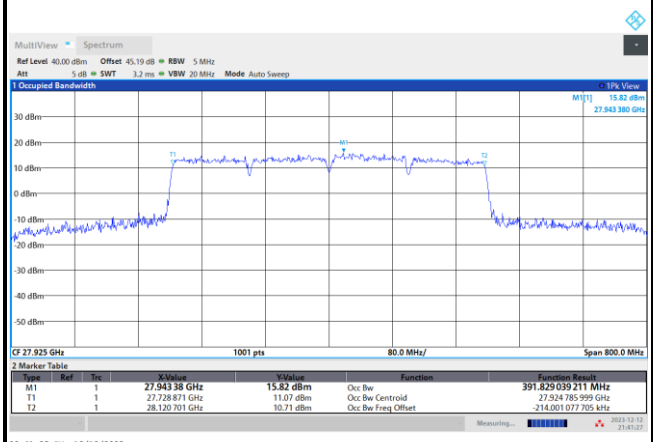

#### Highest Channel / 200MHz / QPSK




#### Highest Channel / 300MHz / QPSK



**CP-OFDM Module A**

| NR Band n261 | |
|---|---|
| **Lowest Channel / 400MHz / QPSK** | |
|  | **intentionally blank** |
| **Middle Channel / 400MHz / QPSK** | |
|  | **intentionally blank** |
| **Highest Channel / 400MHz / QPSK** | |
|  | **intentionally blank** |

# Radiated Out of Band Emissions

| Mode | | | DFT-s-OFDM Module A NR Band n261 : BE (dBm) 1 RB | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | | | 50MHz | | | 100MHz | | | 200MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≦-5 | -5.99 | -5.27 | -5.95 | -8.07 | -8.91 | -10.58 | -14.35 | -15.43 | -16.71 |
| | >10%OB | ≦-13 | -25.77 | -24.62 | -24.96 | -29.81 | -30.57 | -30.51 | -18.23 | -19.29 | -21.19 |
| High CH | 0~10%OB | ≦-5 | -5.19 | -6.89 | -7.45 | -9.63 | -10.73 | -11.22 | -15.69 | -15.59 | -18.58 |
| | >10%OB | ≦-13 | -25.16 | -26.57 | -27.45 | -27.74 | -29.19 | -29.14 | -21.73 | -23.64 | -26.08 |
| Result | | | Compliance | | | | | | | | |

| Mode | | | DFT-s-OFDM Module A NR Band n261 : BE (dBm) 1 RB | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | | | 300MHz | | | 400MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≦-5 | -17.68 | -19.49 | -21.44 | -19.78 | -21.74 | -21.06 |
| | >10%OB | ≦-13 | -15.00 | -18.01 | -21.44 | -23.40 | -24.52 | -26.34 |
| High CH | 0~10%OB | ≦-5 | -20.34 | -18.13 | -21.96 | -19.50 | -19.19 | -22.62 |
| | >10%OB | ≦-13 | -14.89 | -15.56 | -22.38 | -18.32 | -19.49 | -23.15 |
| Result | | | Compliance | | | | | |

| Mode | | | CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB | | |
|---|---|---|---|---|---|
| BW | | | 50MHz | 100MHz | 200MHz |
| Limit (dBm) | | | QPSK | QPSK | QPSK |
| Low CH | 0~10%OB | ≦-5 | -22.091 | -7.08 | -13.19 |
| | >10%OB | ≦-13 | -27.614 | -30.47 | -15.28 |
| High CH | 0~10%OB | ≦-5 | -6.45 | -10.70 | -16.22 |
| | >10%OB | ≦-13 | -26.05 | -29.19 | -19.94 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB | |
|---|---|---|---|---|
| BW | | | 300MHz | 400MHz |
| Limit (dBm) | | | QPSK | QPSK |
| Low CH | 0~10%OB | ≦-5 | -31.405 | -18.23 |
| | >10%OB | ≦-13 | -24.183 | -15.65 |
| High CH | 0~10%OB | ≦-5 | -29.996 | -21.37 |
| | >10%OB | ≦-13 | -22.733 | -15.76 |
| Result | | | Compliance | |

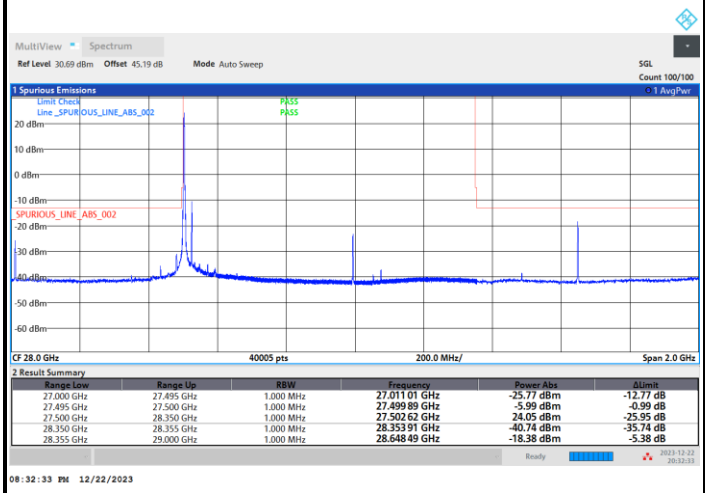
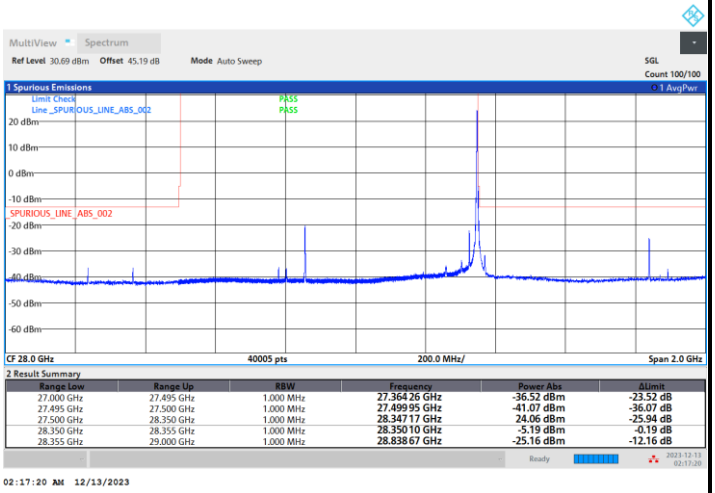
| Mode | | | DFT-s-OFDM Module A NR Band n261 : BE (dBm) Full RB | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | | | 50MHz | | | 100MHz | | | 200MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≦-5 | -14.32 | -15.25 | -17.51 | -16.47 | -20.78 | -22.58 | -23.43 | -24.21 | -28.05 |
| | >10%OB | ≦-13 | -20.04 | -22.85 | -27.74 | -23.18 | -26.24 | -28.41 | -30.21 | -31.88 | -33.57 |
| High CH | 0~10%OB | ≦-5 | -15.39 | -17.40 | -20.64 | -20.74 | -23.83 | -27.00 | -28.68 | -31.01 | -32.20 |
| | >10%OB | ≦-13 | -21.33 | -24.77 | -30.16 | -24.22 | -26.78 | -29.91 | -32.97 | -34.12 | -34.40 |
| Result | | | Compliance | | | | | | | | |

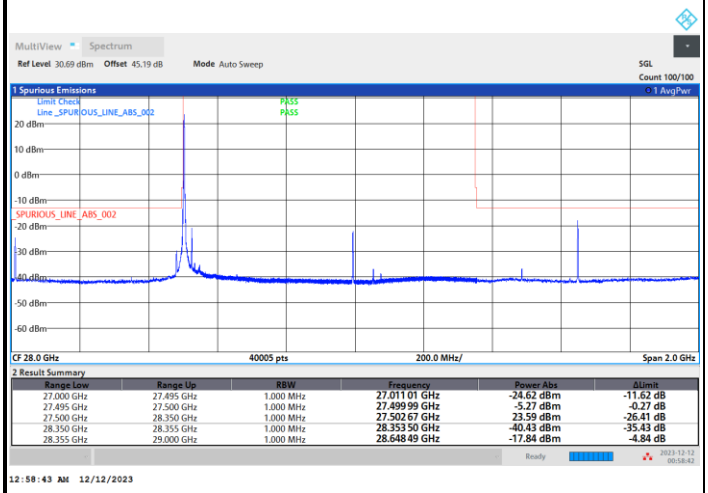
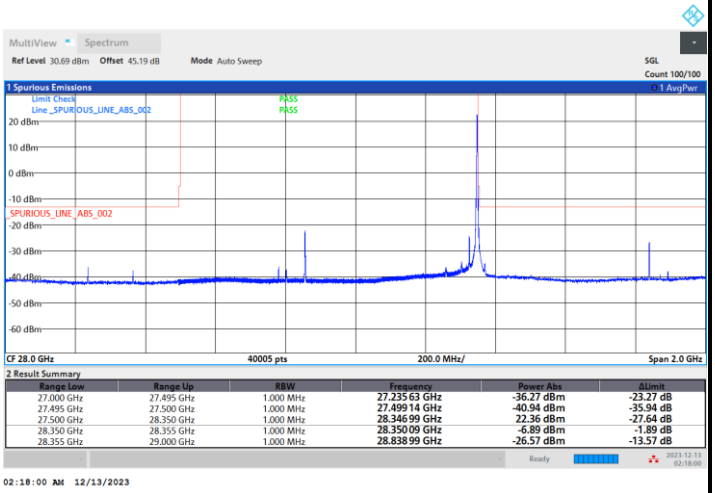
| Mode | | | DFT-s-OFDM Module A NR Band n261 : BE (dBm) Full RB | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | | | 300MHz | | | 400MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≦-5 | -25.38 | -28.19 | -31.12 | -28.63 | -29.69 | -32.83 |
| | >10%OB | ≦-13 | -30.11 | -33.05 | -35.79 | -32.83 | -36.72 | -38.06 |
| High CH | 0~10%OB | ≦-5 | -26.69 | -30.94 | -34.88 | -31.04 | -30.33 | -35.60 |
| | >10%OB | ≦-13 | -27.36 | -31.29 | -36.64 | -31.91 | -29.77 | -32.97 |
| Result | | | Compliance | | | | | |

| Mode | | | CP-OFDM Module A NR Band n261 : BE (dBm) Full RB | | |
|---|---|---|---|---|---|
| BW | | | 50MHz | 100MHz | 200MHz |
| Limit (dBm) | | | QPSK | QPSK | QPSK |
| Low CH | 0~10%OB | ≦-5 | -15.05 | -18.64 | -22.67 |
| | >10%OB | ≦-13 | -20.30 | -23.31 | -27.22 |
| High CH | 0~10%OB | ≦-5 | -16.43 | -21.03 | -24.70 |
| | >10%OB | ≦-13 | -21.32 | -25.15 | -29.64 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module A NR Band n261 : BE (dBm) Full RB | |
|---|---|---|---|---|
| BW | | | 300MHz | 400MHz |
| Limit (dBm) | | | QPSK | QPSK |
| Low CH | 0~10%OB | ≦-5 | -24.79 | -27.91 |
| | >10%OB | ≦-13 | -25.46 | -30.49 |
| High CH | 0~10%OB | ≦-5 | -22.69 | -22.06 |
| | >10%OB | ≦-13 | -24.30 | -22.66 |
| Result | | | Compliance | |

**DFT-s-OFDM Module A**

| NR Band n261 / 50MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |

| NR Band n261 / 50MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |