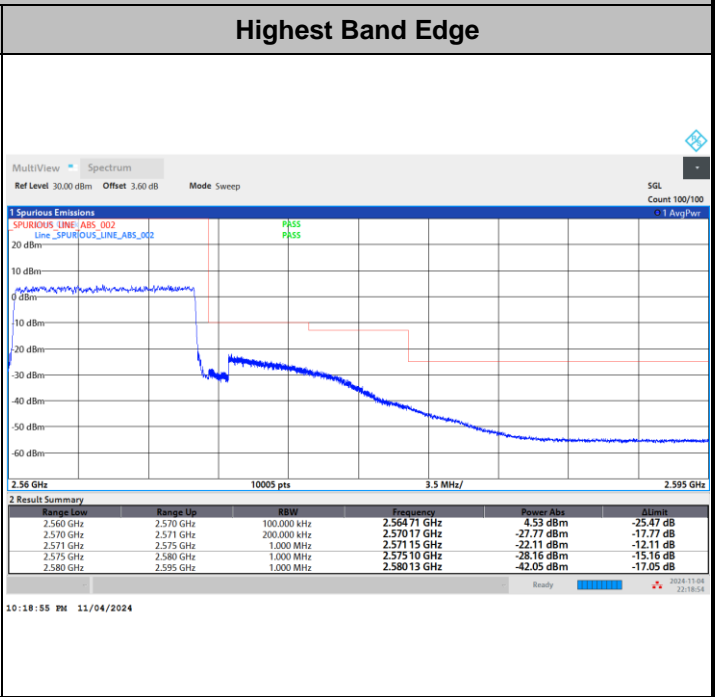
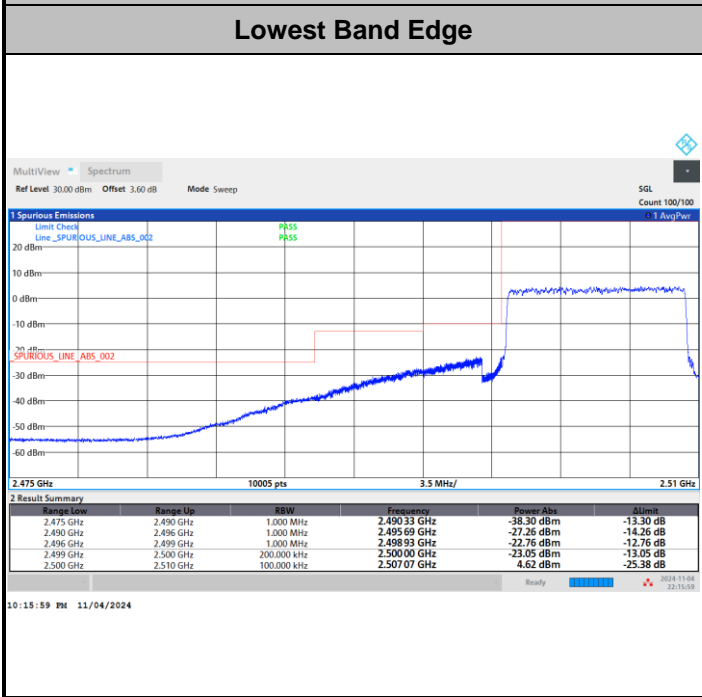
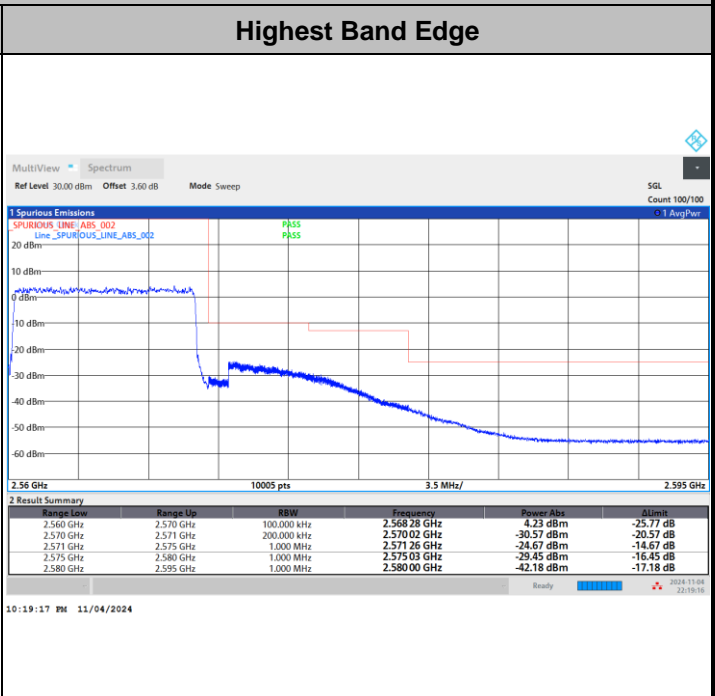
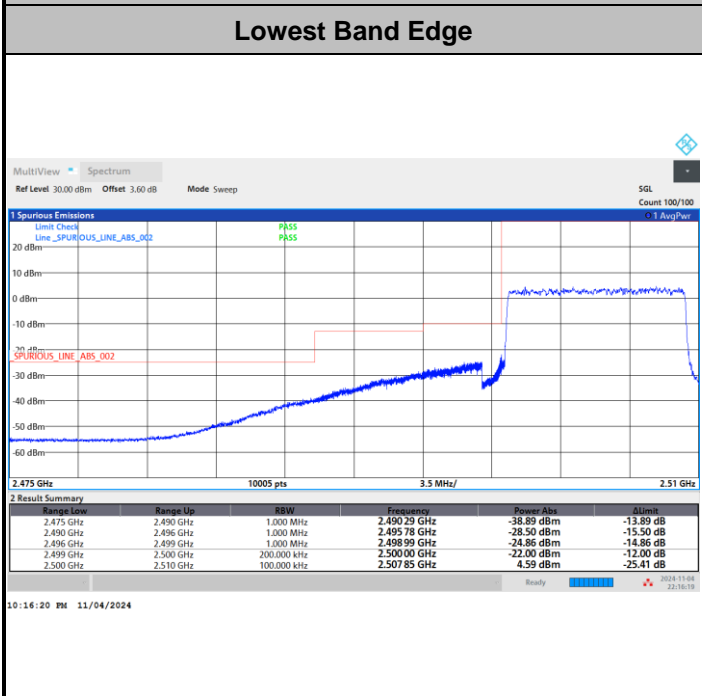


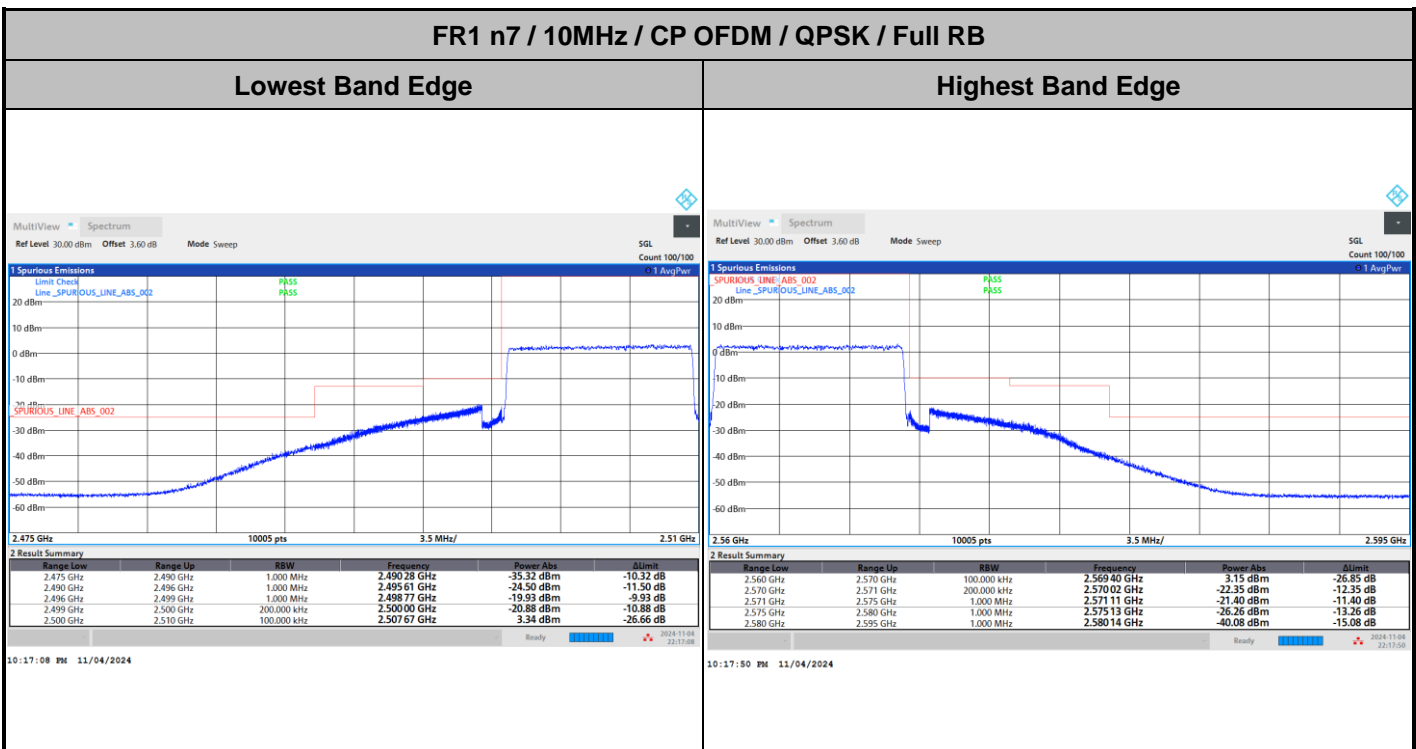
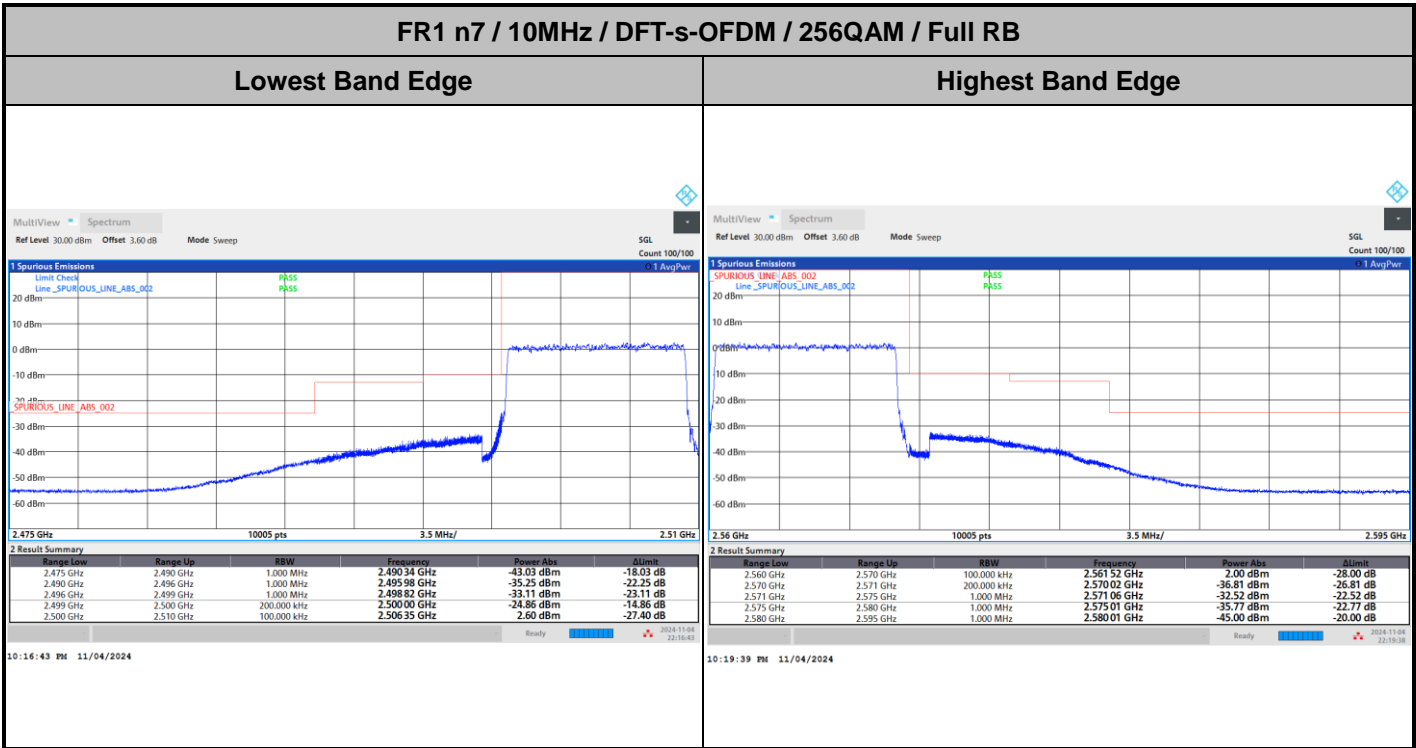


FR1 n7 / 10MHz / DFT-s-OFDM / 16QAM / Full RB



FR1 n7 / 10MHz / DFT-s-OFDM / 64QAM / Full RB



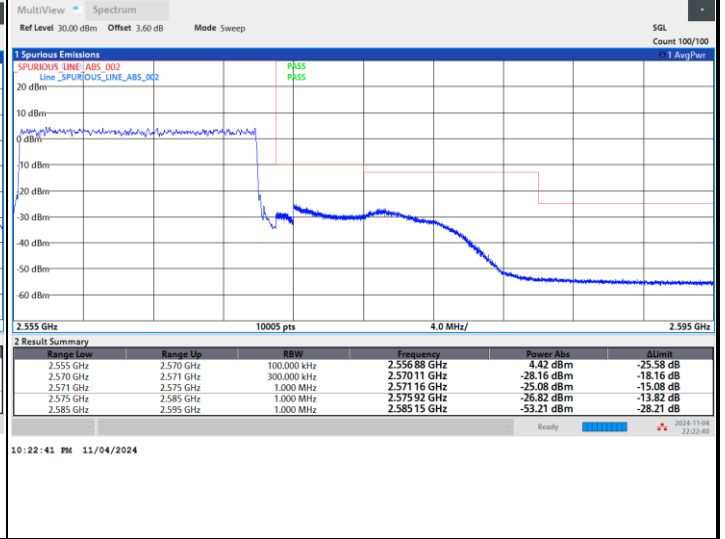
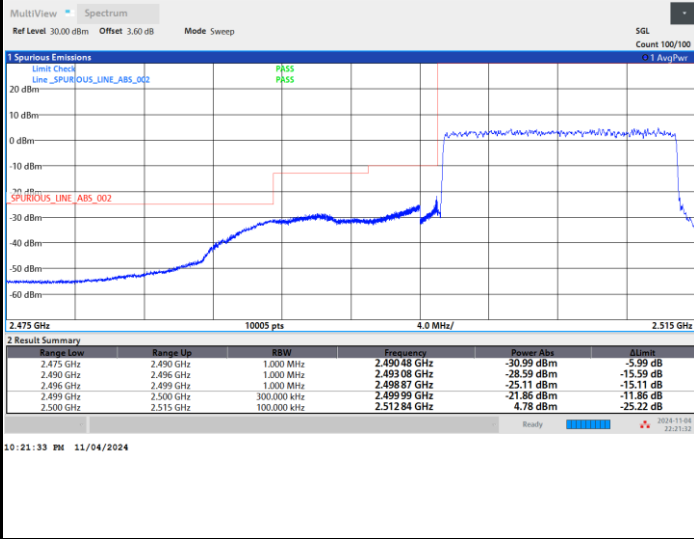




FR1 n7 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

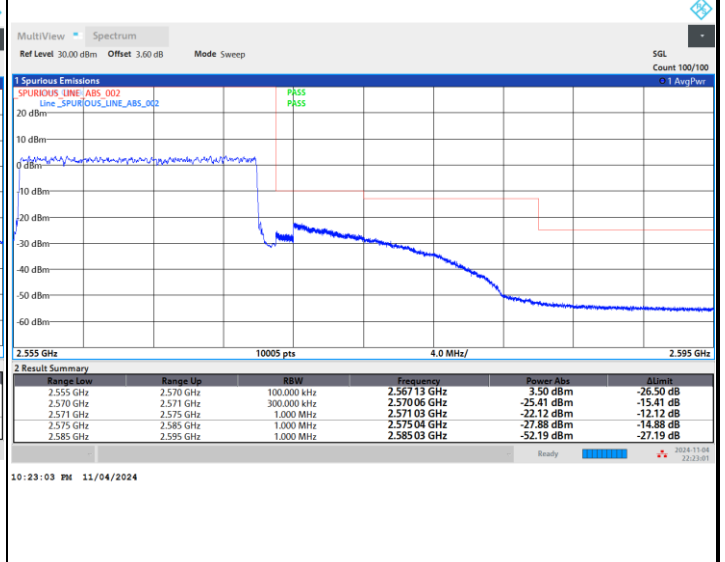
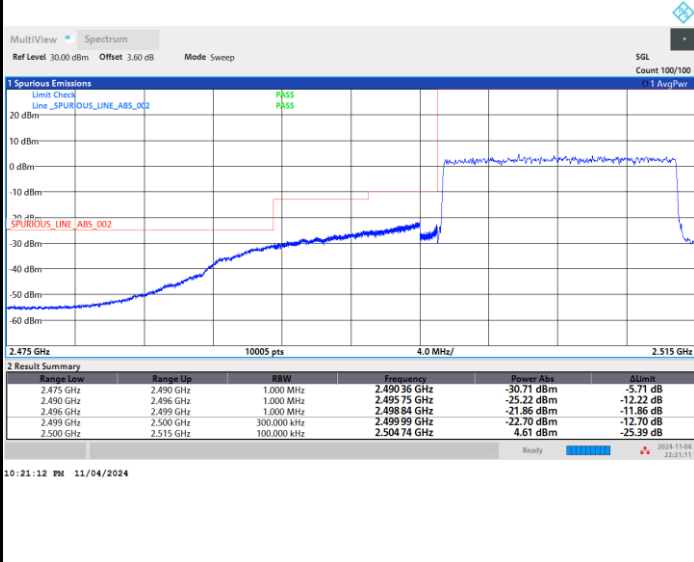
Highest Band Edge



FR1 n7 / 15MHz / DFT-s-OFDM / QPSK / Full RB

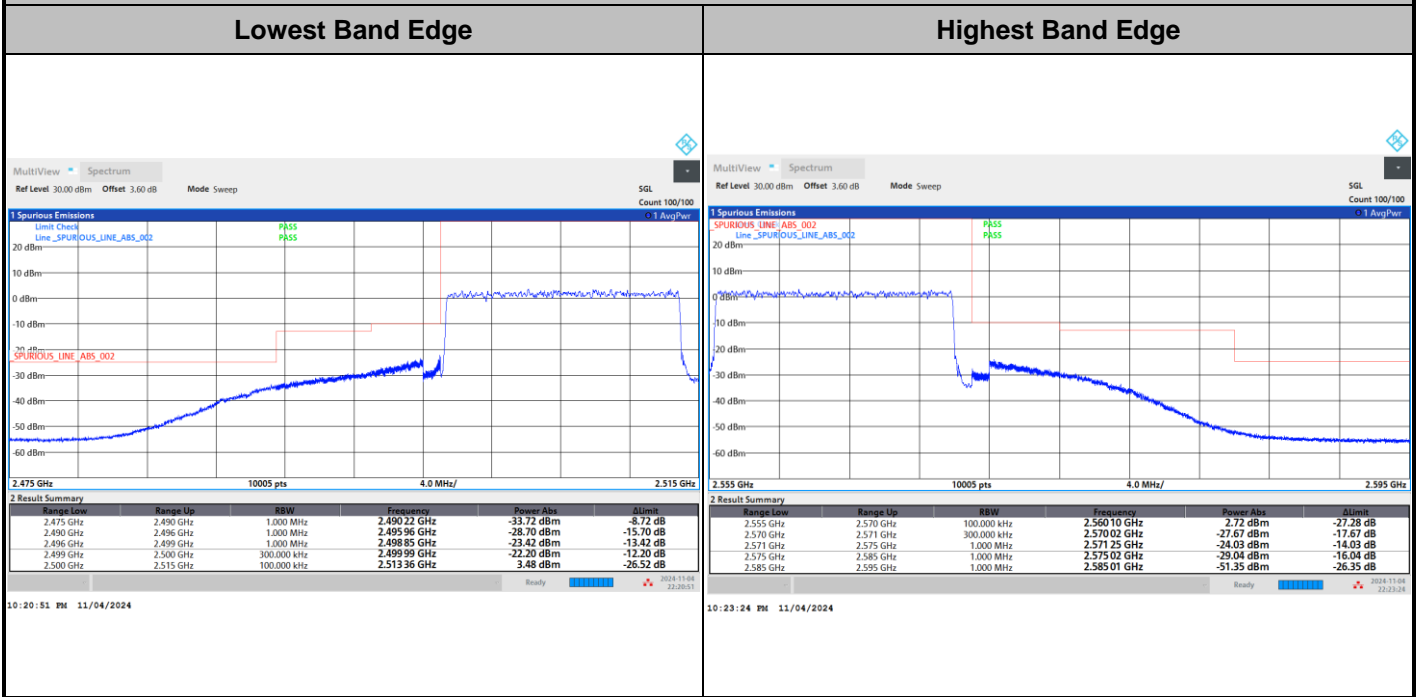
Lowest Band Edge

Highest Band Edge

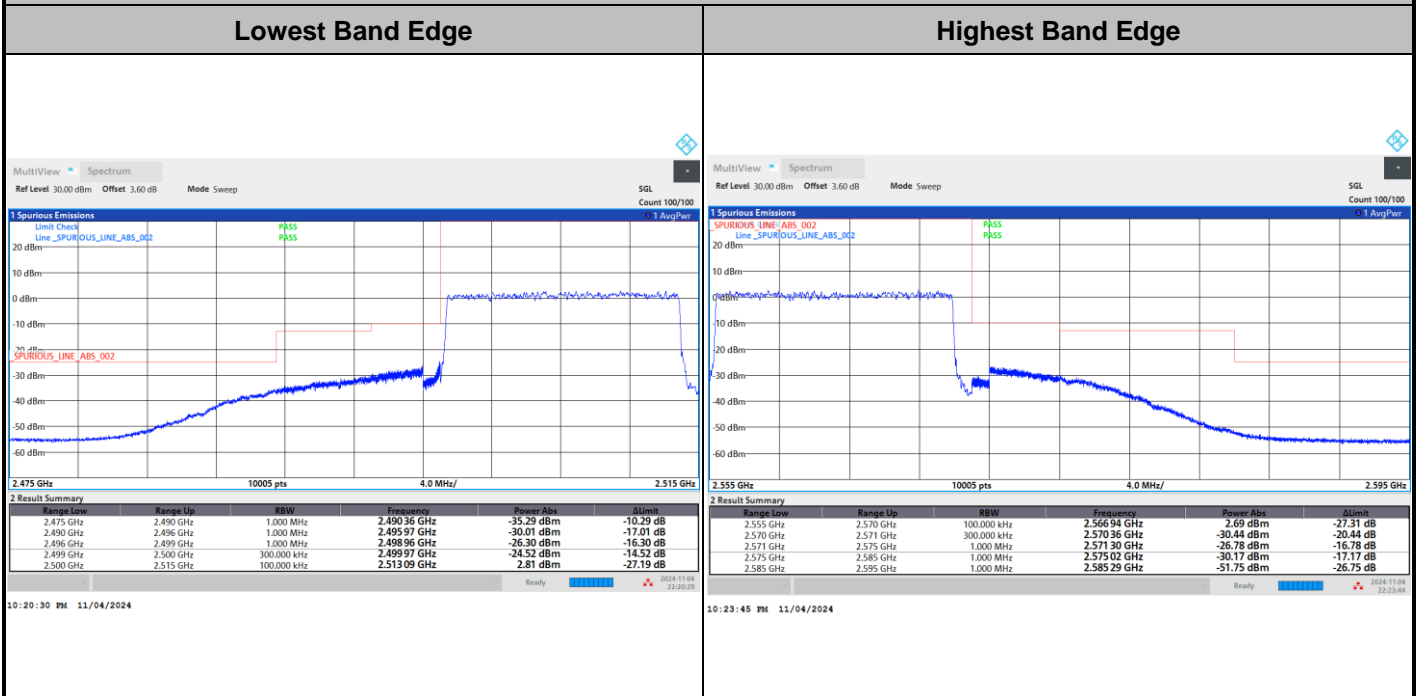




FR1 n7 / 15MHz / DFT-s-OFDM / 16QAM / Full RB

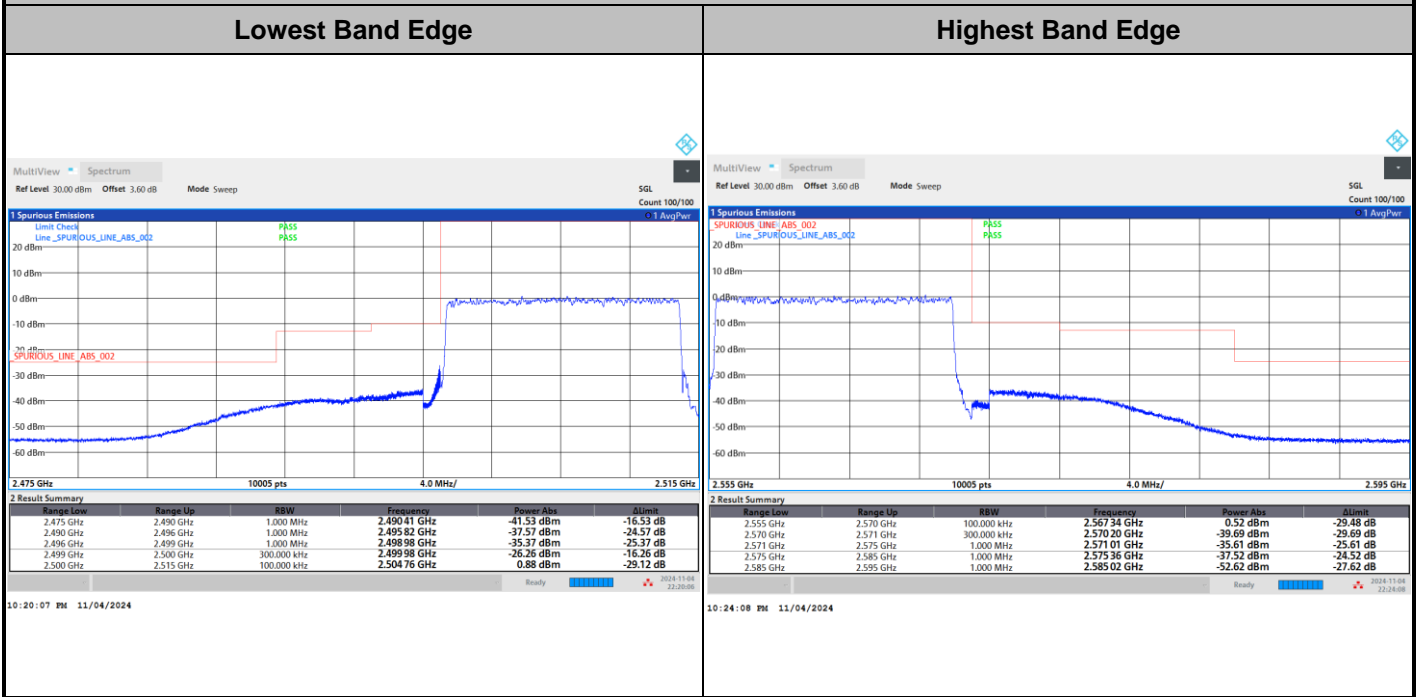


FR1 n7 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

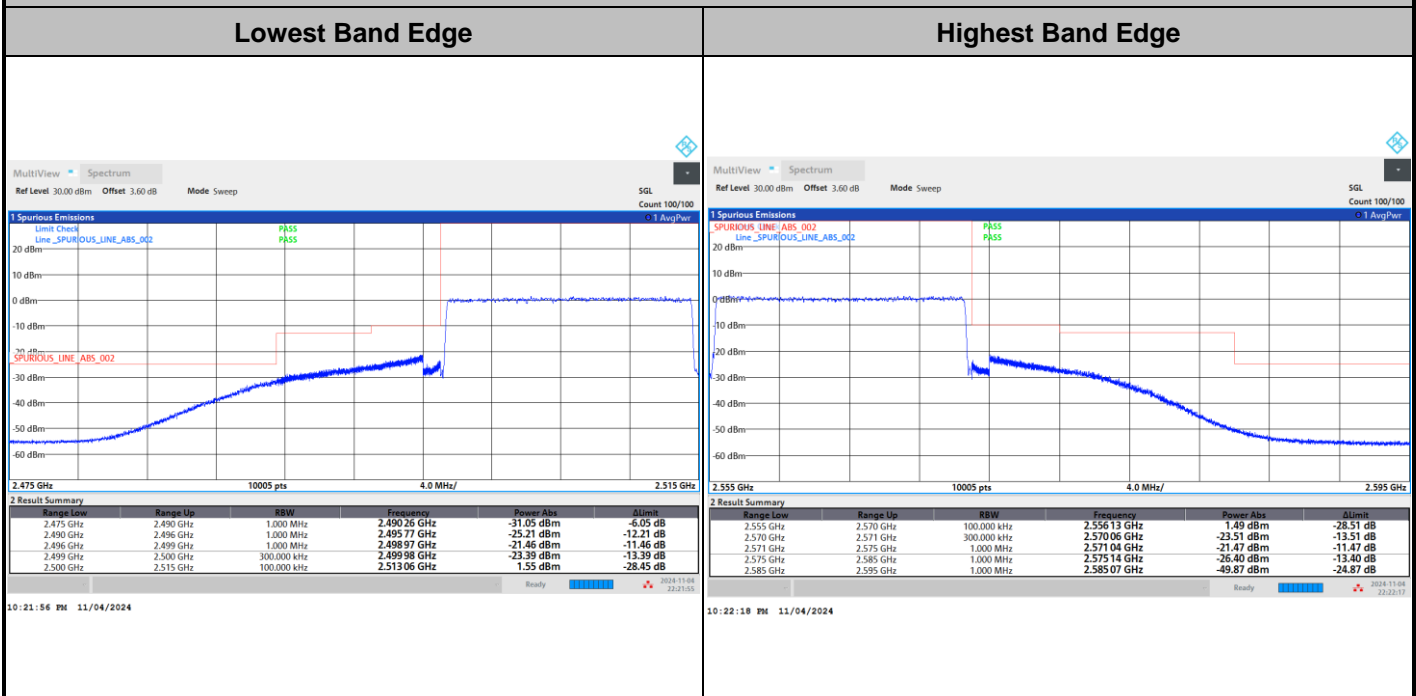




FR1 n7 / 15MHz / DFT-s-OFDM / 256QAM / Full RB



FR1 n7 / 15MHz / CP OFDM / QPSK / Full RB

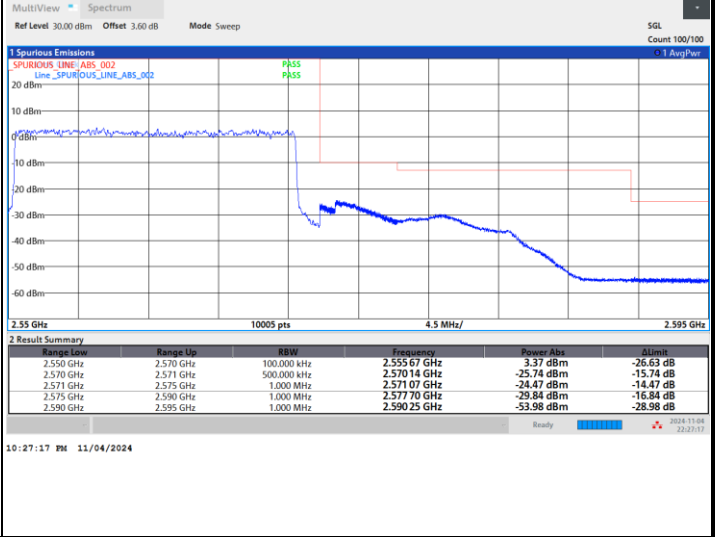
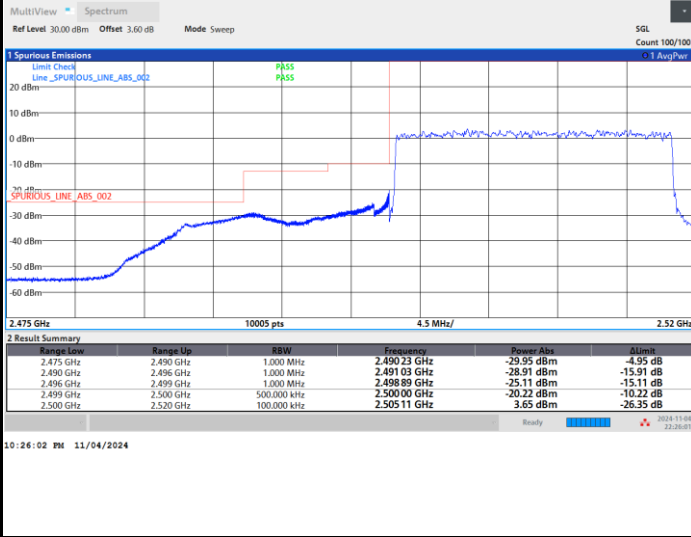




FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

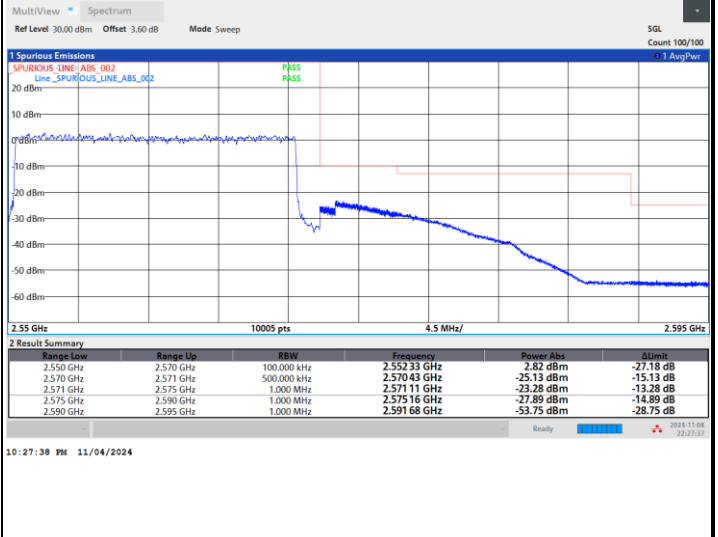
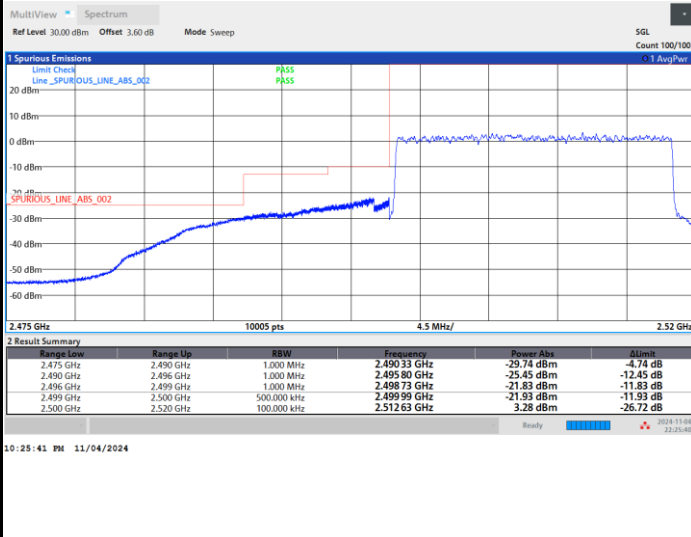
Highest Band Edge



FR1 n7 / 20MHz / DFT-s-OFDM / QPSK / Full RB

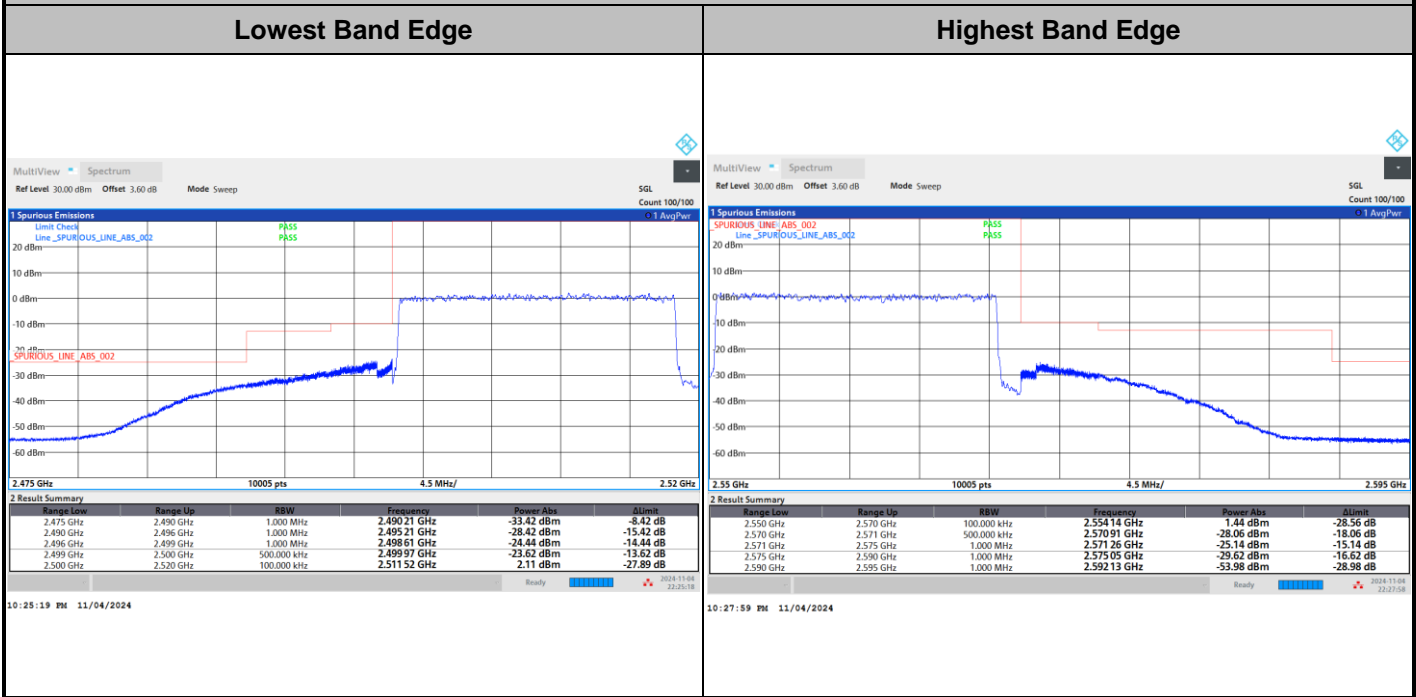
Lowest Band Edge

Highest Band Edge

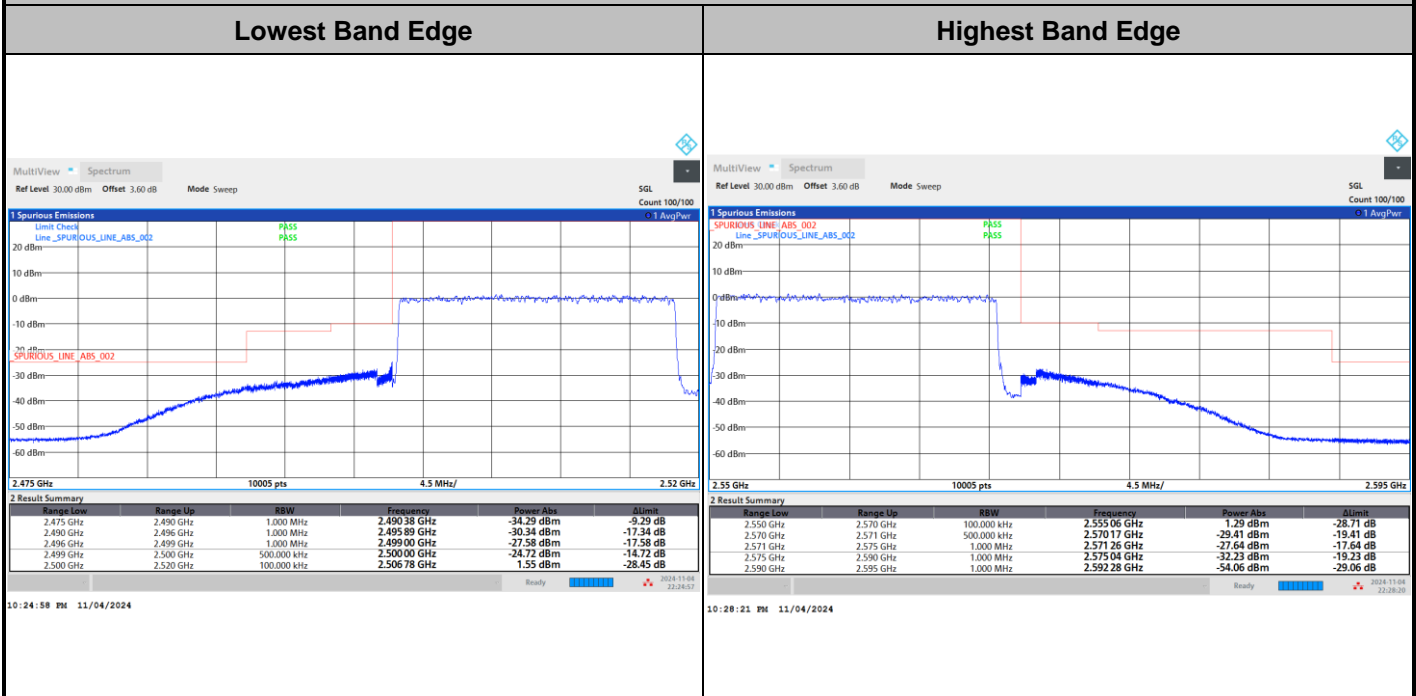




FR1 n7 / 20MHz / DFT-s-OFDM / 16QAM / Full RB

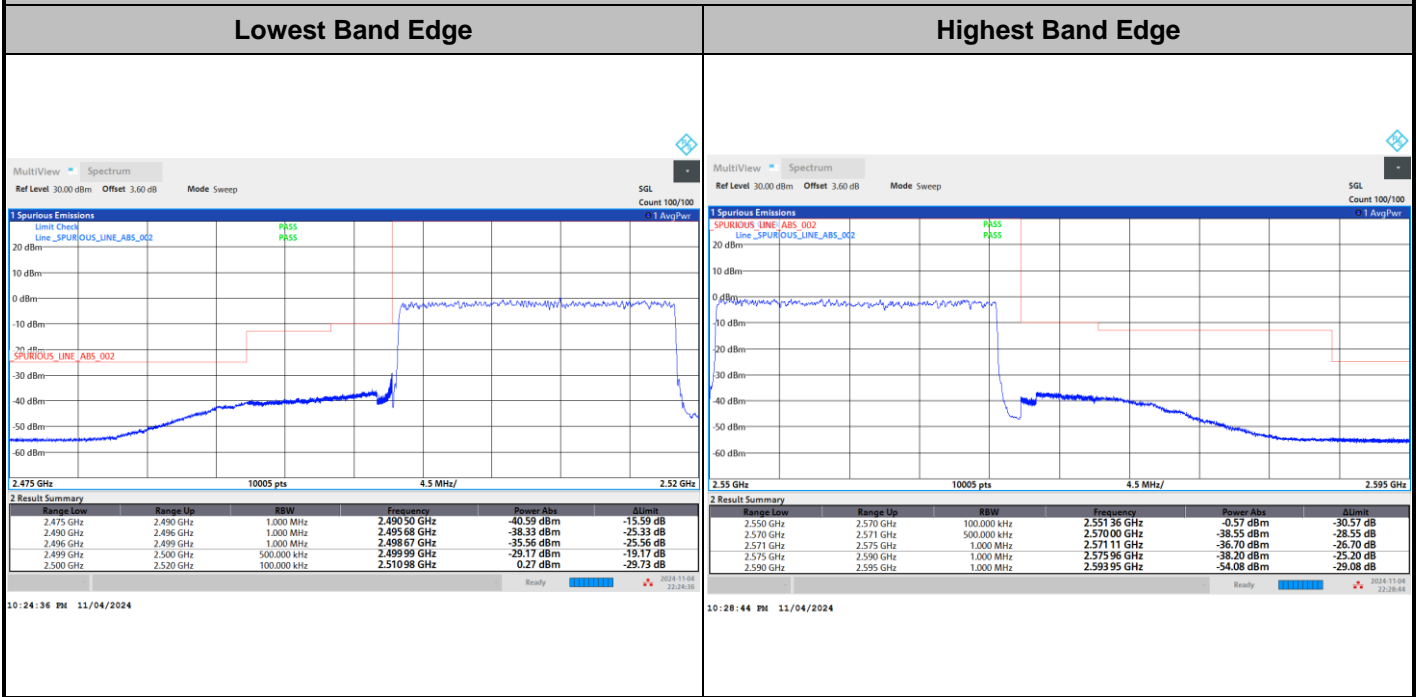


FR1 n7 / 20MHz / DFT-s-OFDM / 64QAM / Full RB

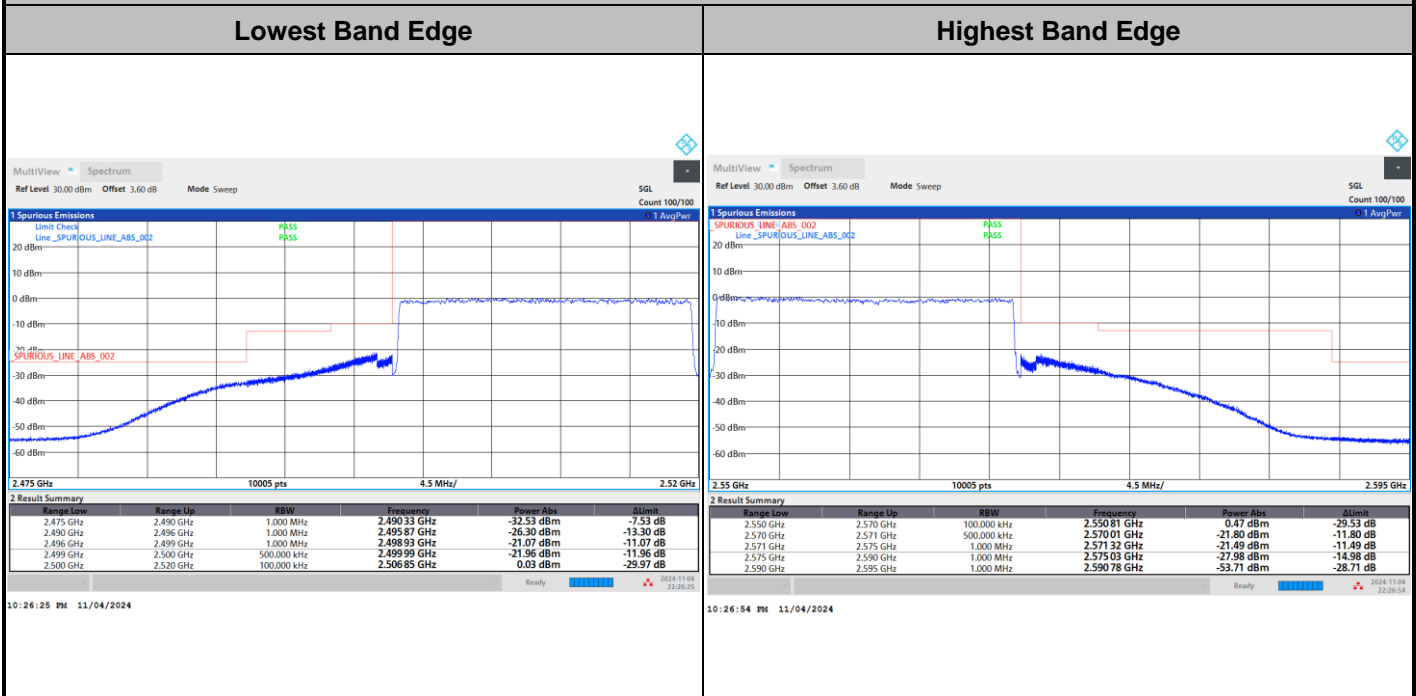




FR1 n7 / 20MHz / DFT-s-OFDM / 256QAM / Full RB



FR1 n7 / 20MHz / CP OFDM / QPSK / Full RB

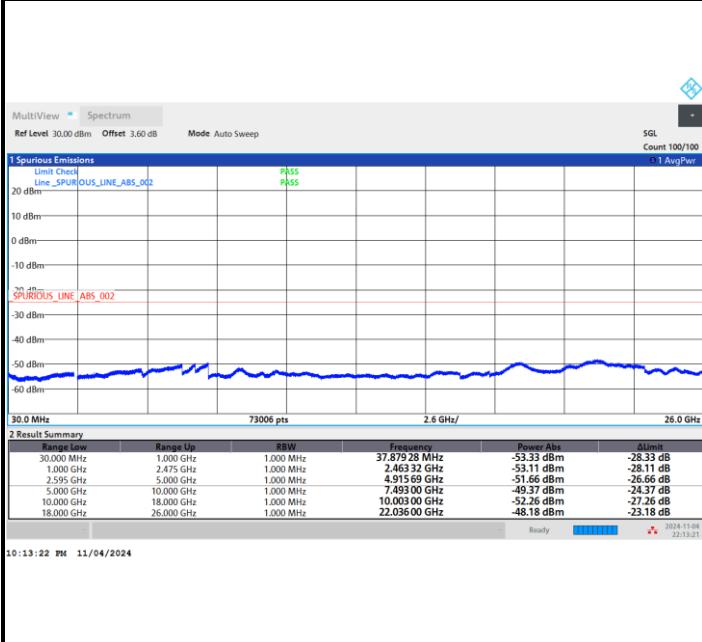




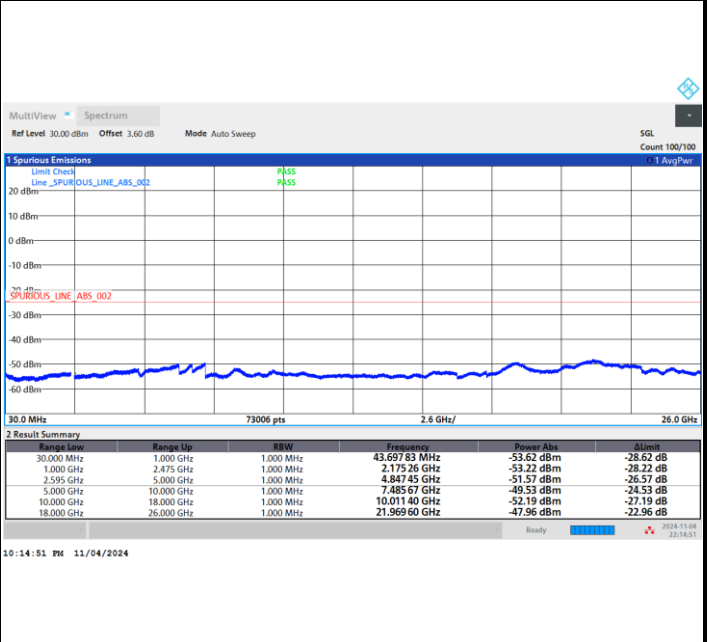
Conducted Spurious Emission

FR1 n7 / 5MHz / DFT-S OFDM / QPSK / 1RB1

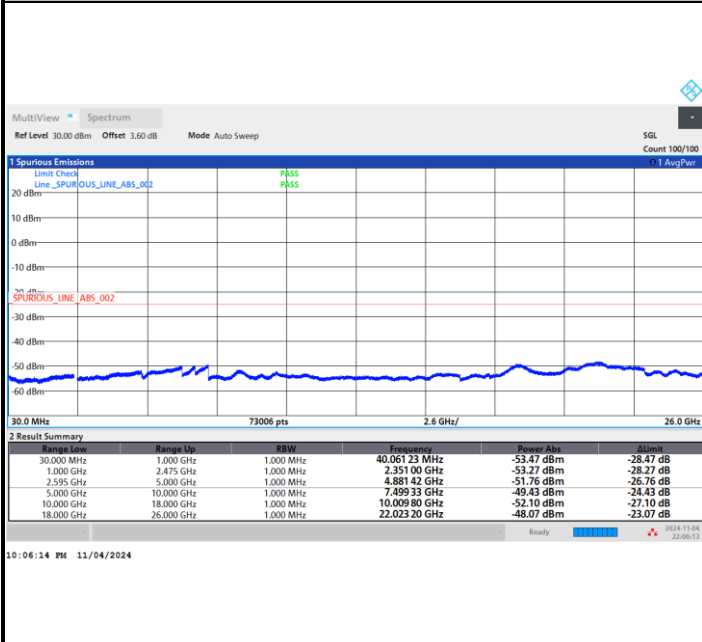
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

| Test Conditions | | FR1 n7 (BPSK) / Middle Channel | Limit |
|------------------|-----------------|--------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0048 | PASS |
| 40 | Normal Voltage | 0.0256 | |
| 30 | Normal Voltage | 0.0024 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0004 | |
| 0 | Normal Voltage | 0.0081 | |
| -10 | Normal Voltage | 0.0242 | |
| -20 | Normal Voltage | 0.0206 | |
| -30 | Normal Voltage | 0.0163 | |
| 20 | Maximum Voltage | 0.0040 | |
| 20 | Normal Voltage | 0.0250 | |
| 20 | Minimum Voltage | 0.0189 | |

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 3.465 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n12

Peak-to-Average Ratio

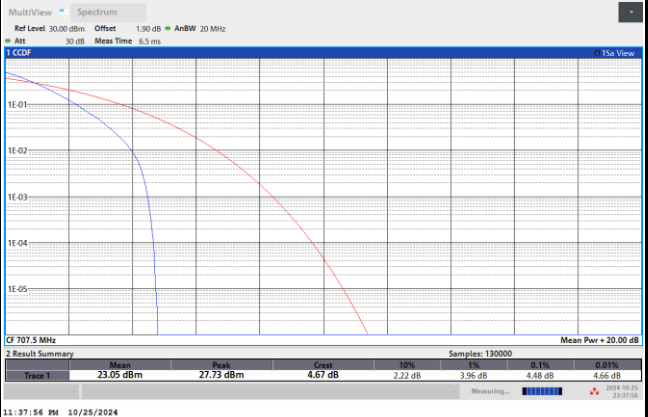
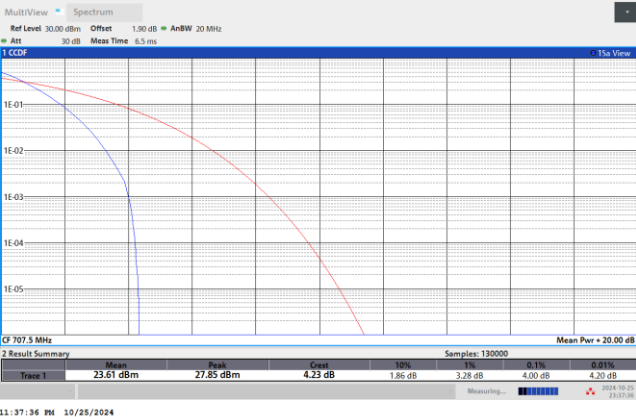
| Mode | FR1 n12 / 15MHz / DFT-S OFDM | | | | |
|-----------|------------------------------|---------|---------|---------|-------------|
| Mod. | PI/2 BPSK | QPSK | 16QAM | 64QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 4.00 | 4.48 | 5.34 | 5.78 | PASS |
| Mode | FR1 n12 / 15MHz / DFT-S OFDM | | | | |
| Mod. | 256QAM | | | | Limit: 13dB |
| RB Size | Full RB | | | | Result |
| Middle CH | 6.32 | | | | PASS |



FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

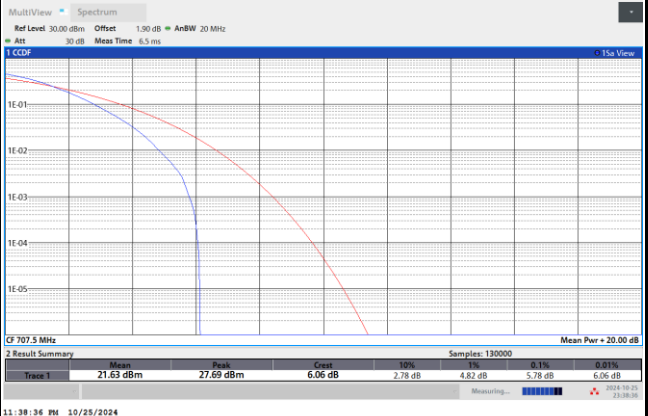
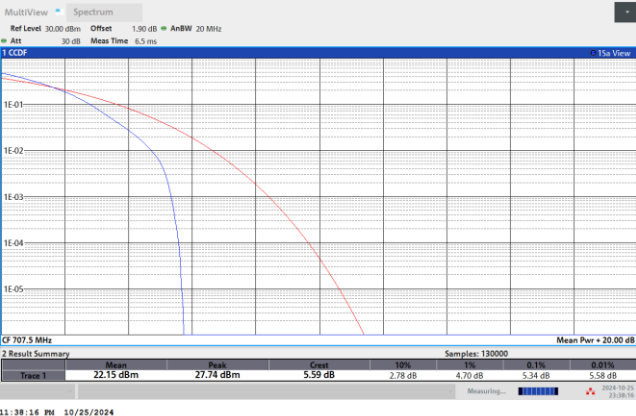
PI/2 BPSK

QPSK

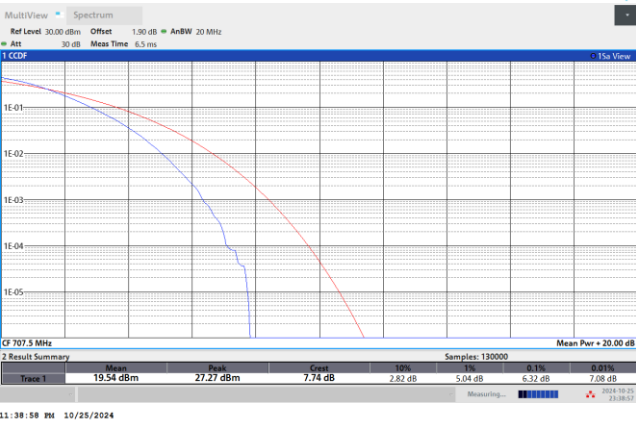


16QAM

64QAM



256QAM





26dB Bandwidth

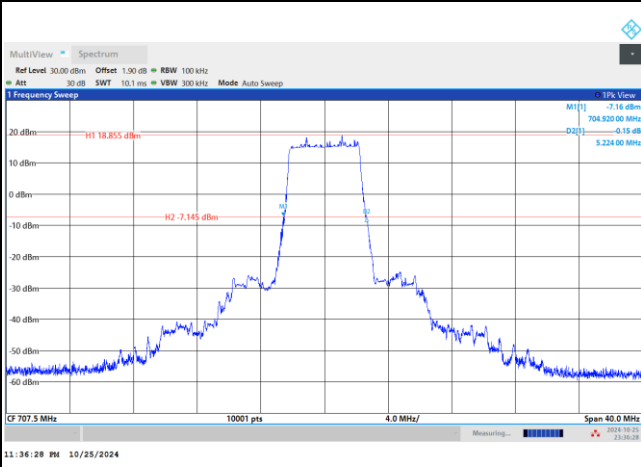
| Mode | FR1 n12 : 26dB BW(MHz) / DFT-S OFDM | | |
|-----------|-------------------------------------|-----------|-----------|
| BW | 5MHz | 10MHz | 15MHz |
| Mod. | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK |
| Middle CH | 5.22 | 9.82 | 14.53 |

| Mode | FR1 n12 : 26dB BW(MHz) / CP OFDM | | | | | |
|-----------|----------------------------------|--------|-------|--------|-------|--------|
| BW | 5MHz | | 10MHz | | 15MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 5.32 | 5.22 | 10.62 | 10.26 | 15.32 | 15.24 |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 5.23 | 5.27 | 10.30 | 10.26 | 15.36 | 15.39 |



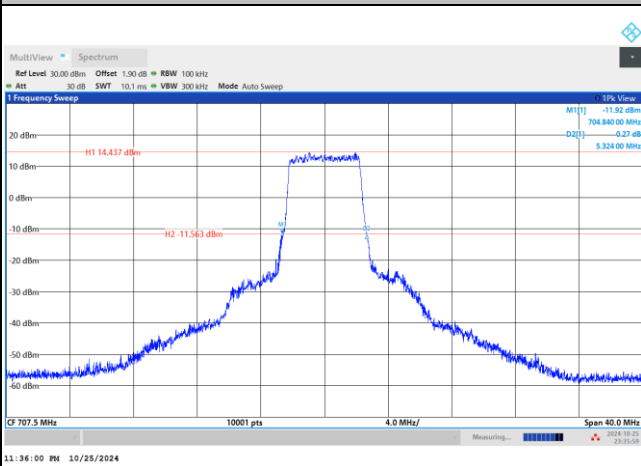
FR1 n12 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

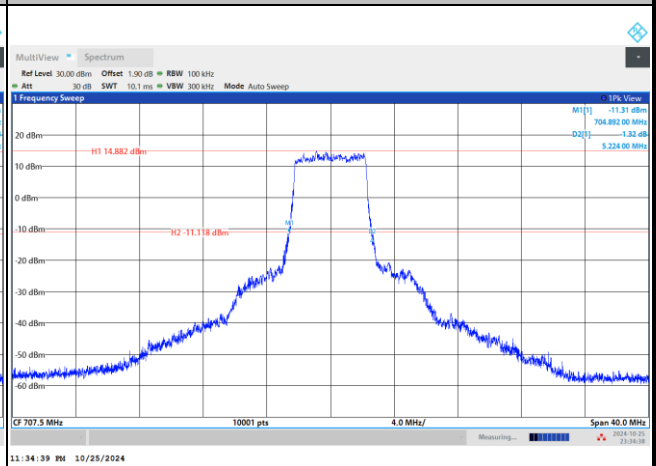


FR1 n12 / 5MHz / CP OFDM / Middle Channel / Full RB

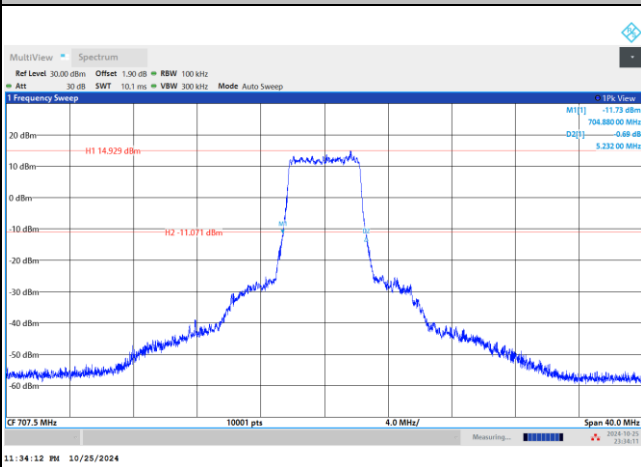
QPSK



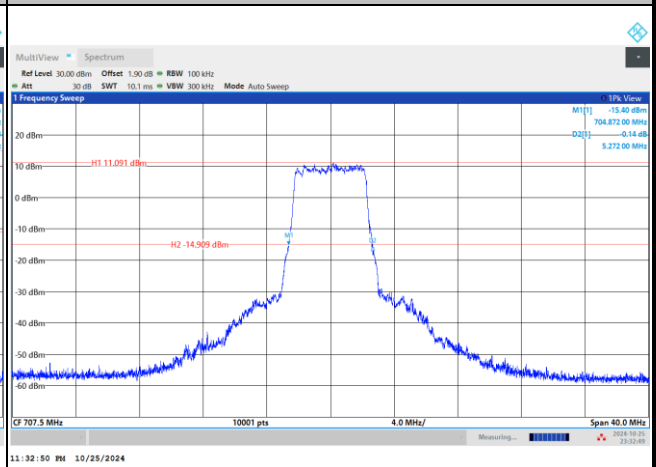
16QAM



64QAM



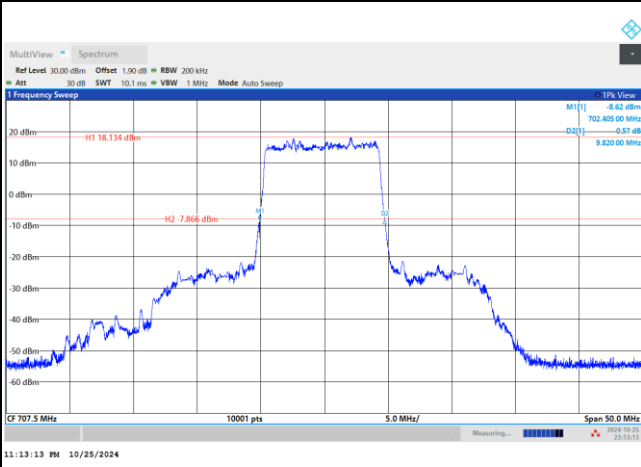
256QAM





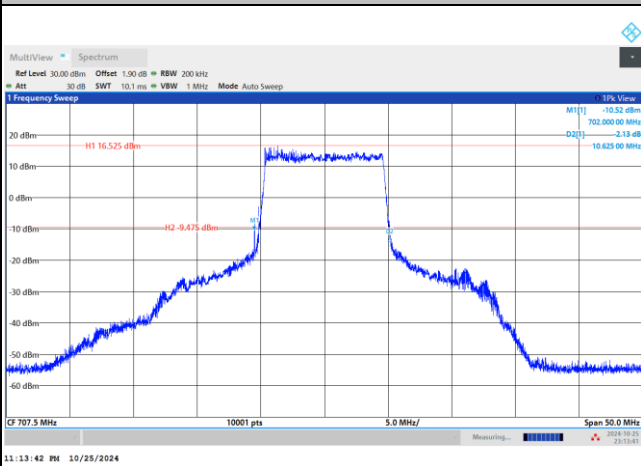
FR1 n12 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

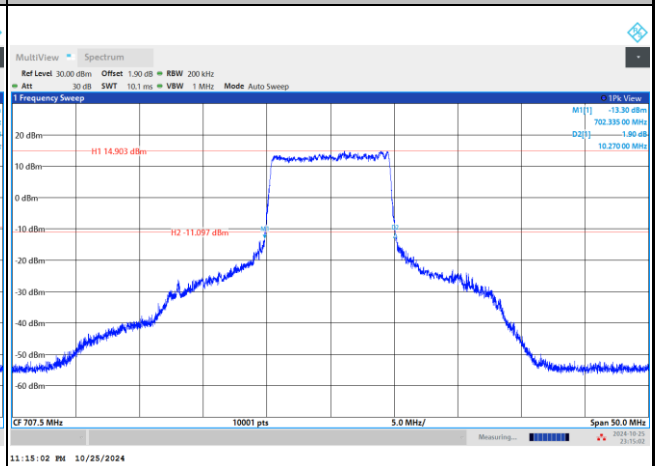


FR1 n12 / 10MHz / CP OFDM / Middle Channel / Full RB

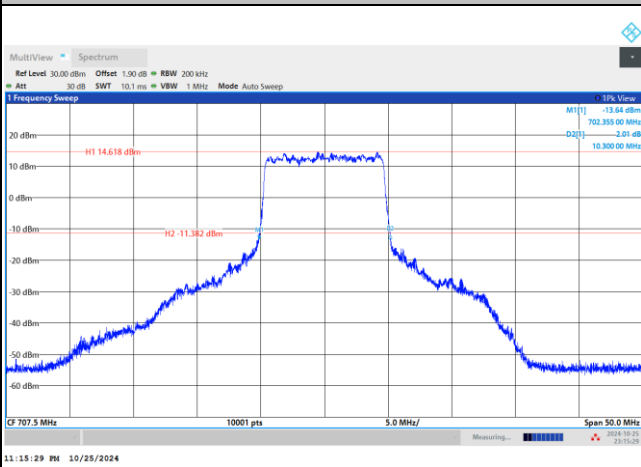
QPSK



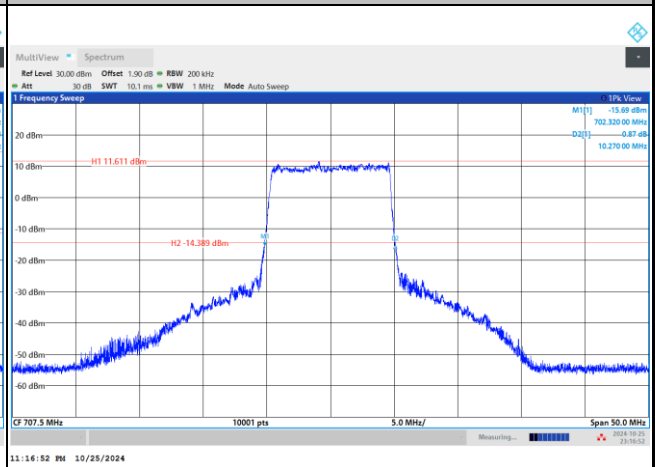
16QAM



64QAM



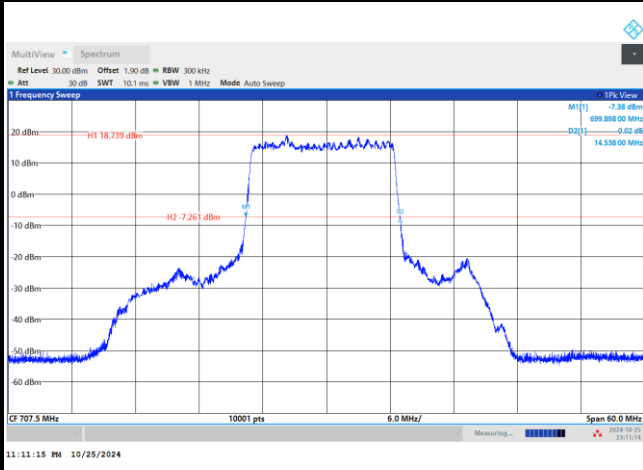
256QAM





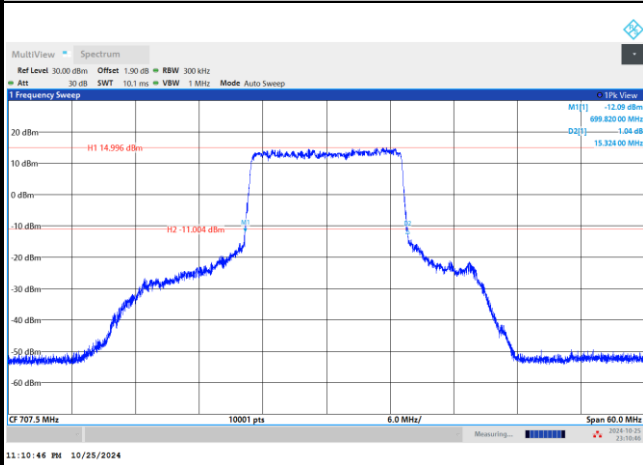
FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

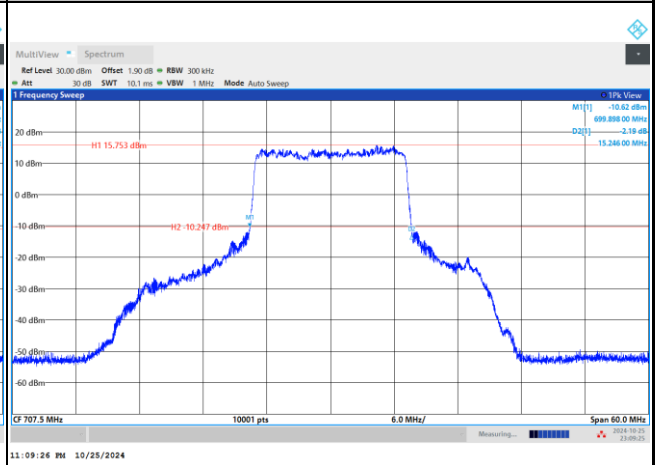


FR1 n12 / 15MHz / CP OFDM / Middle Channel / Full RB

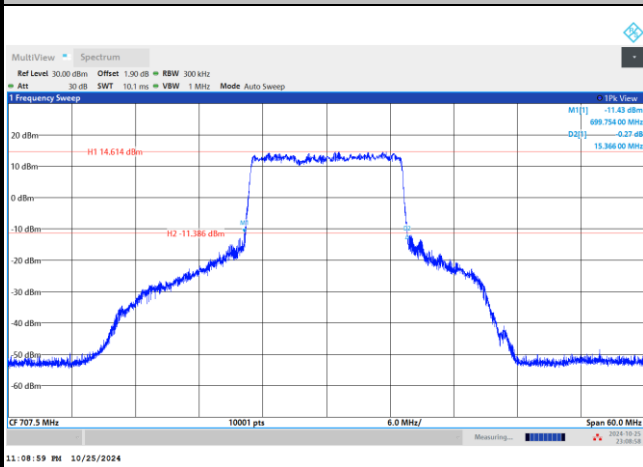
QPSK



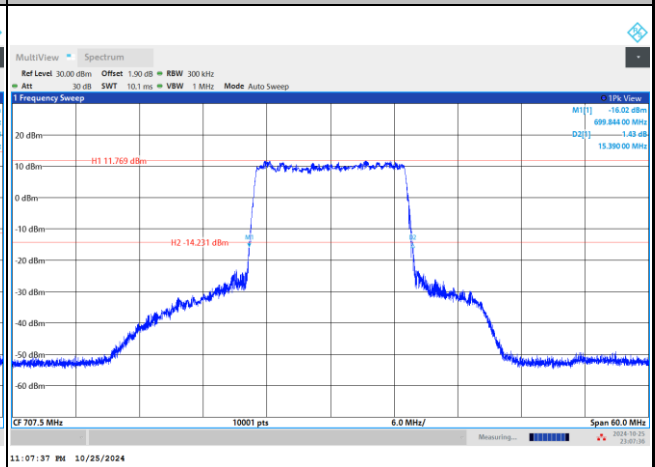
16QAM



64QAM



256QAM





Occupied Bandwidth

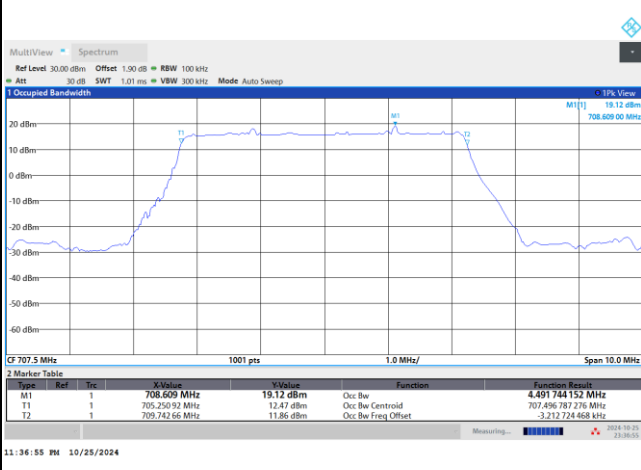
| Mode | FR1 n12 : 99%OBW(MHz) / DFT-S OFDM | | |
|-----------|------------------------------------|-----------|-----------|
| BW | 5MHz | 10MHz | 15MHz |
| Mod. | PI/2 BPSK | PI/2 BPSK | PI/2 BPSK |
| Middle CH | 4.49 | 8.97 | 13.45 |

| Mode | FR1 n12 : 99%OBW (MHz) / CP OFDM | | | | | |
|-----------|----------------------------------|--------|-------|--------|-------|--------|
| BW | 5MHz | | 10MHz | | 15MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 4.52 | 4.52 | 9.32 | 9.32 | 14.16 | 14.18 |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 4.51 | 4.52 | 9.32 | 9.35 | 14.19 | 14.16 |



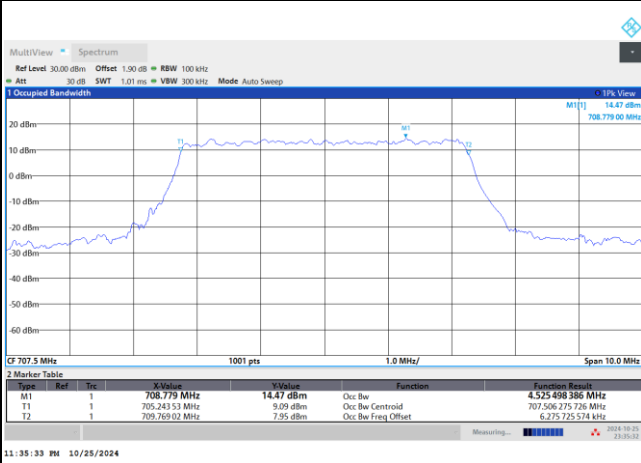
FR1 n12 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

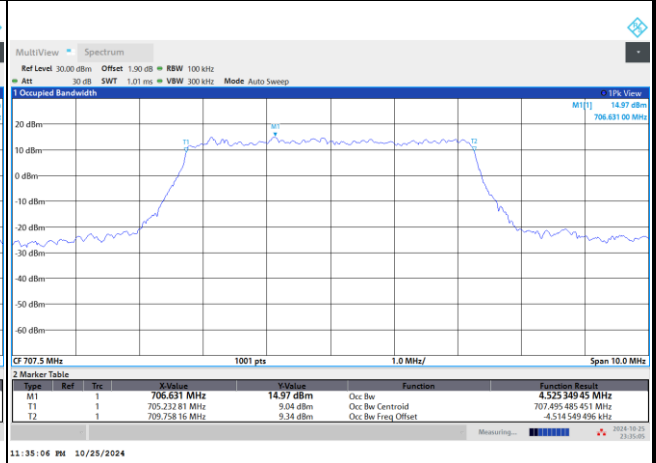


FR1 n12 / 5MHz / CP OFDM / Middle Channel / Full RB

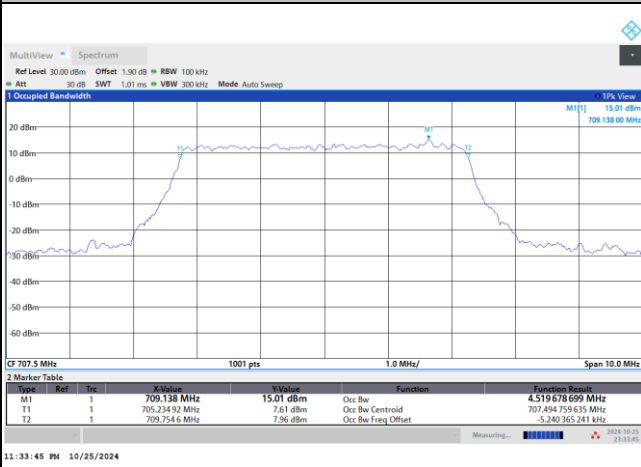
QPSK



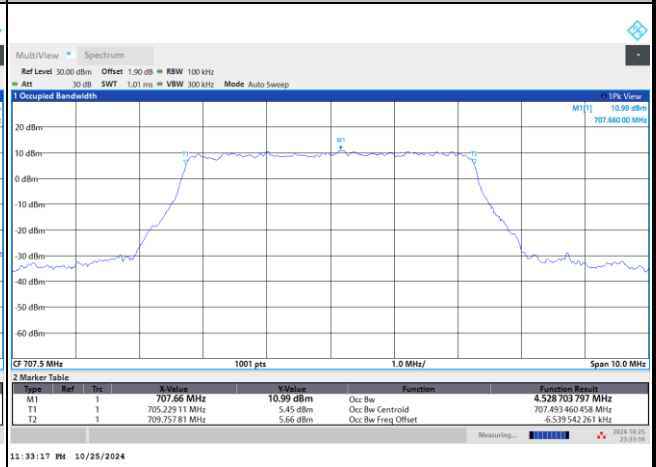
16QAM



64QAM



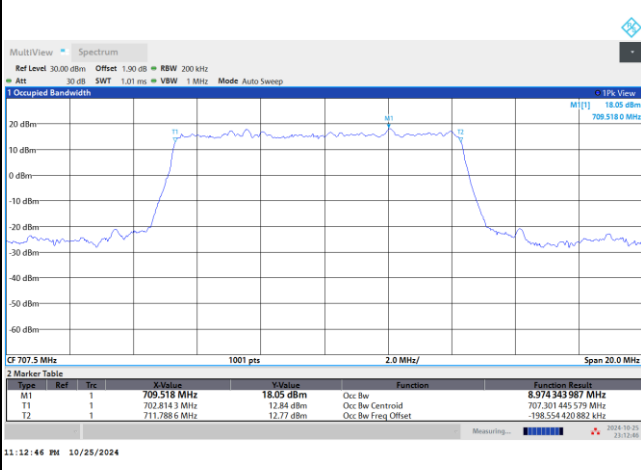
256QAM





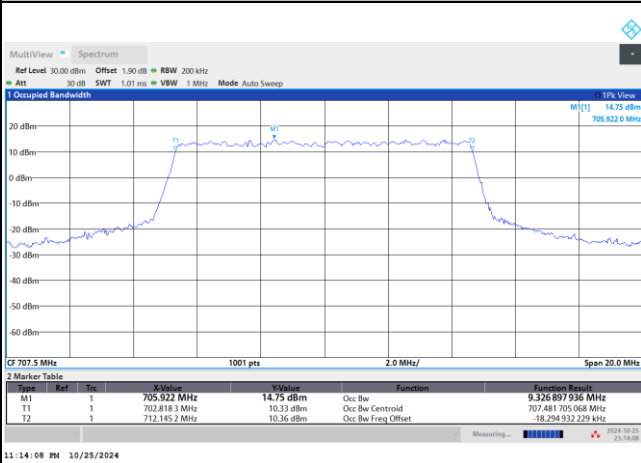
FR1 n12 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

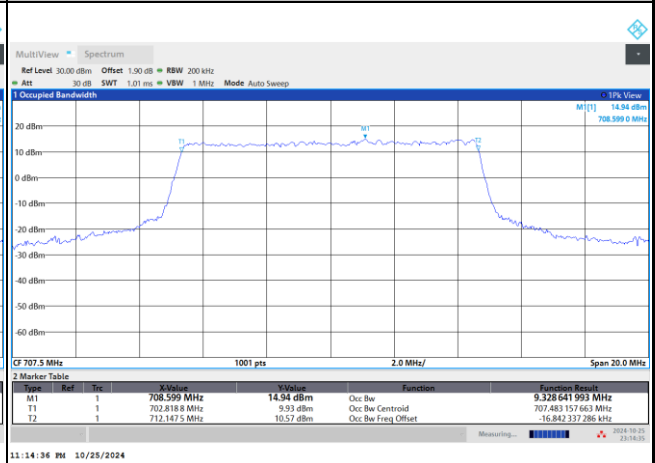


FR1 n12 / 10MHz / CP OFDM / Middle Channel / Full RB

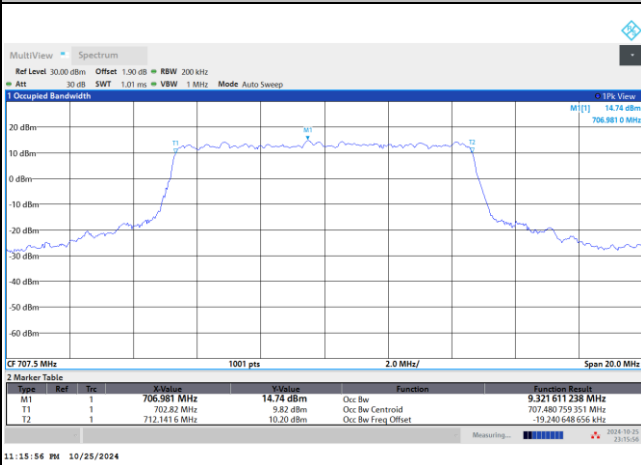
QPSK



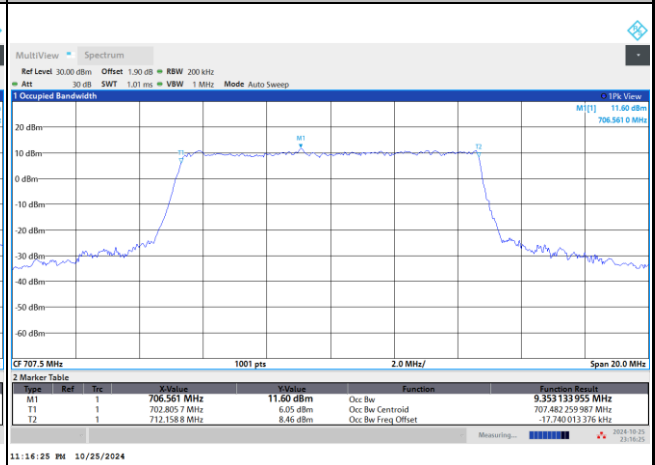
16QAM



64QAM



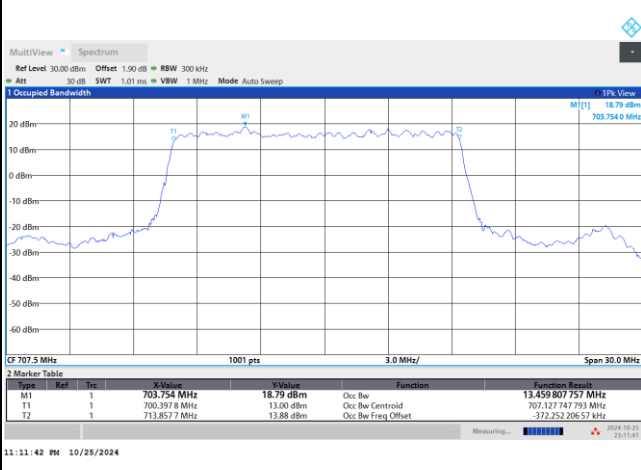
256QAM





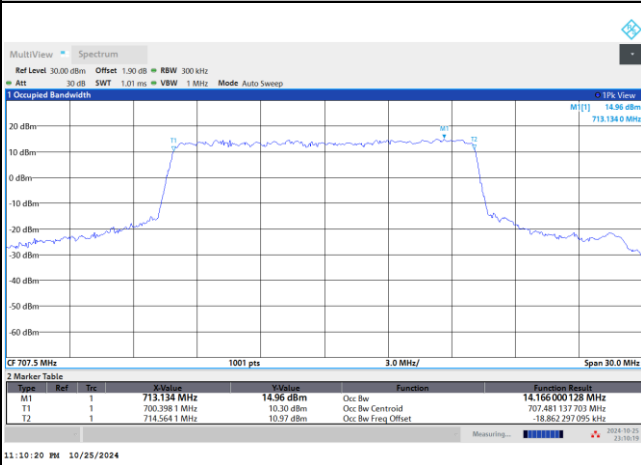
FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

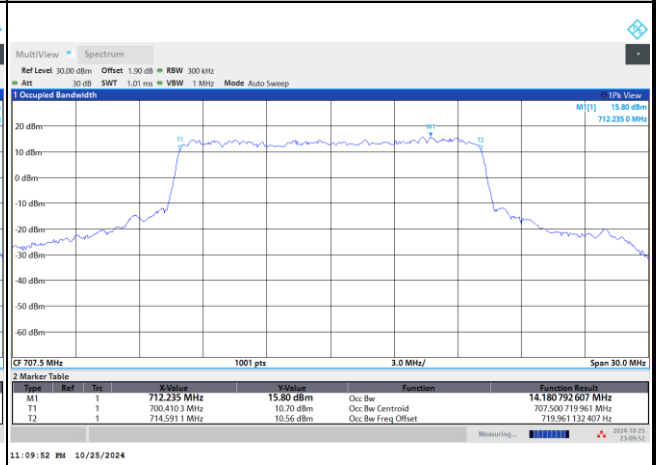


FR1 n12 / 15MHz / CP OFDM / Middle Channel / Full RB

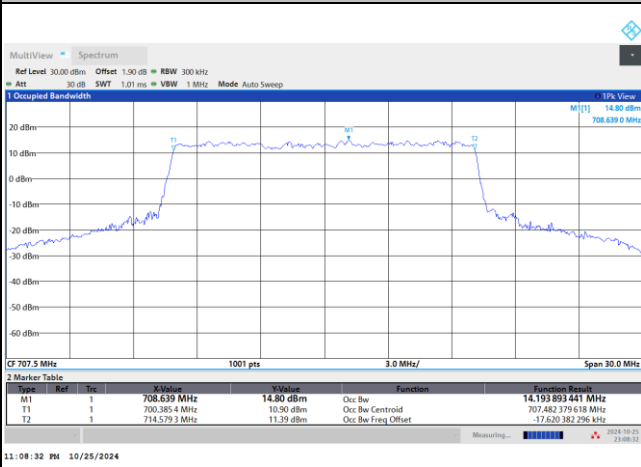
QPSK



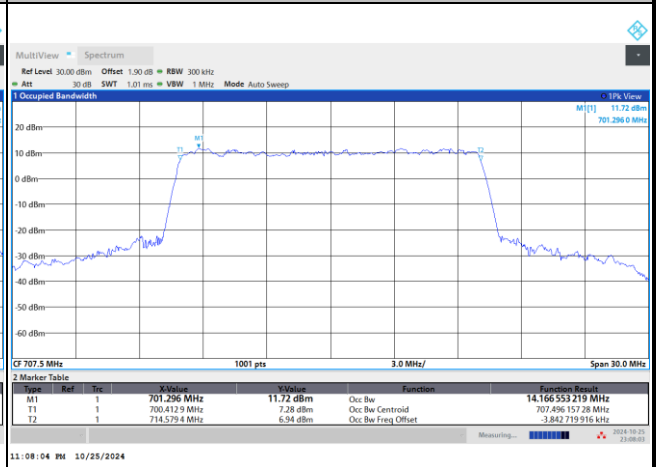
16QAM



64QAM



256QAM



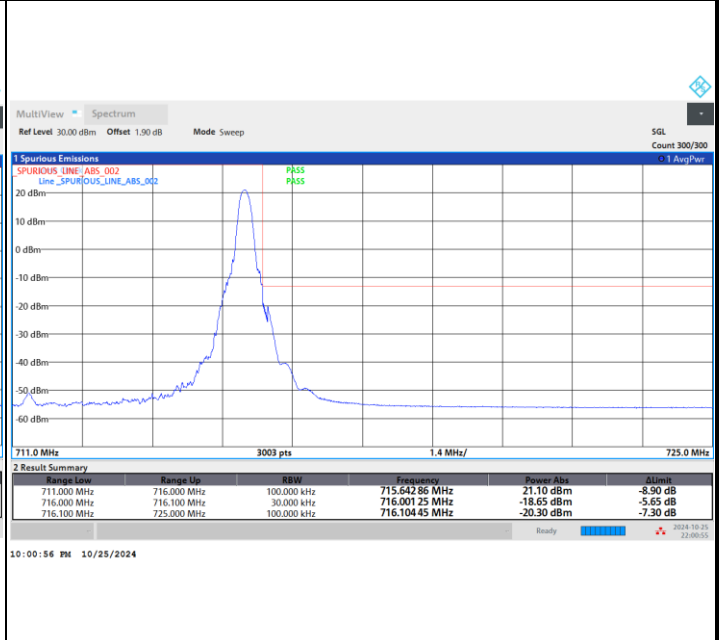
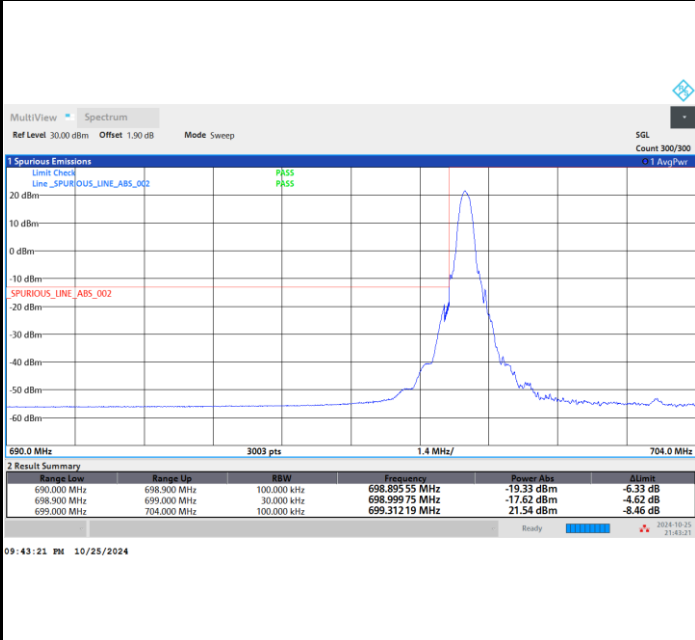


Conducted Band Edge

FR1 n12 / 5MHz / DFT-S OFDM / PI/2 BPSK

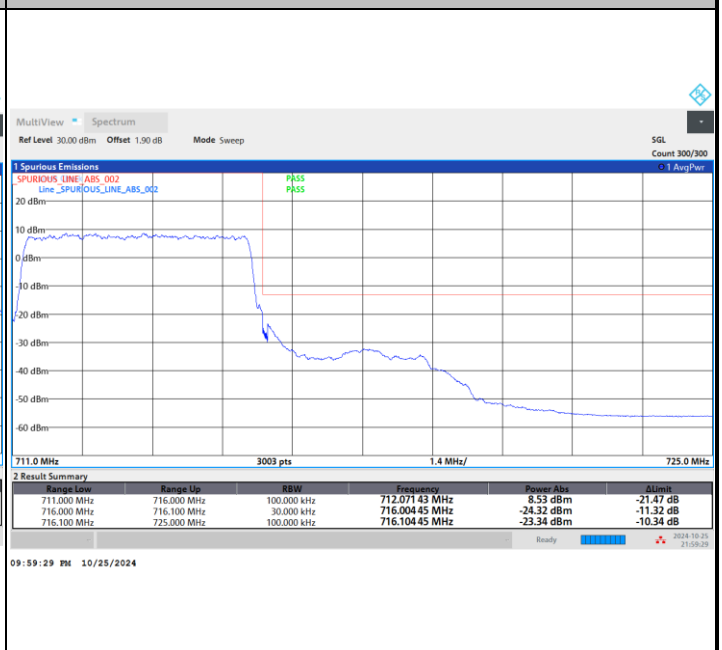
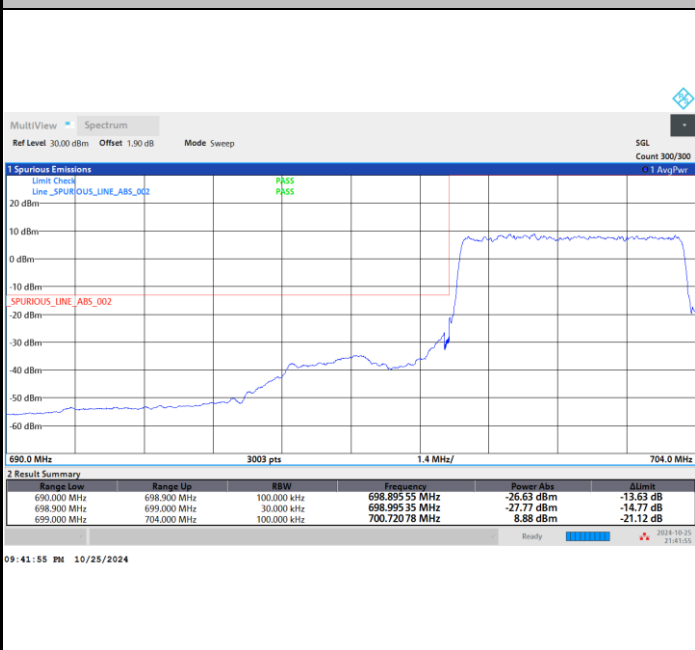
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

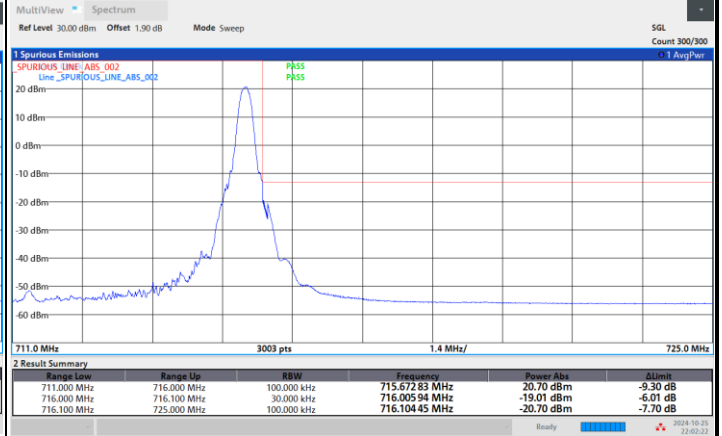
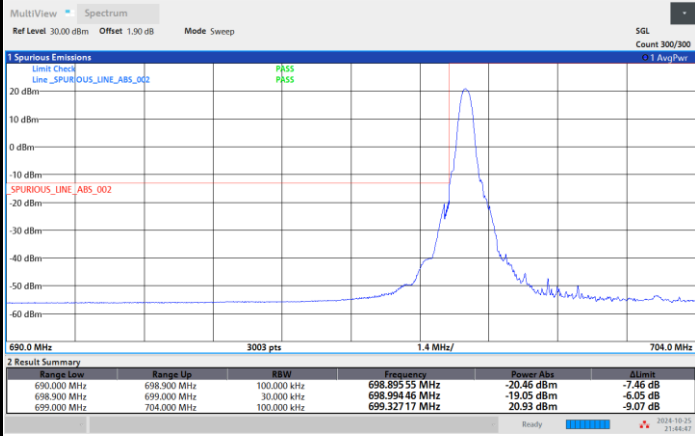




FR1 n12 / 5MHz / DFT-S OFDM / QPSK

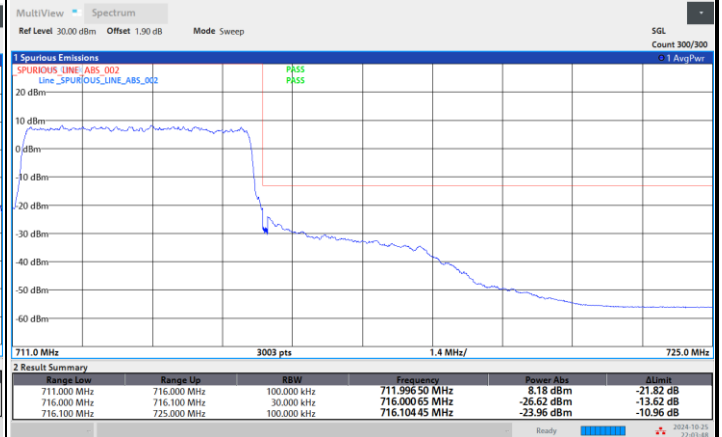
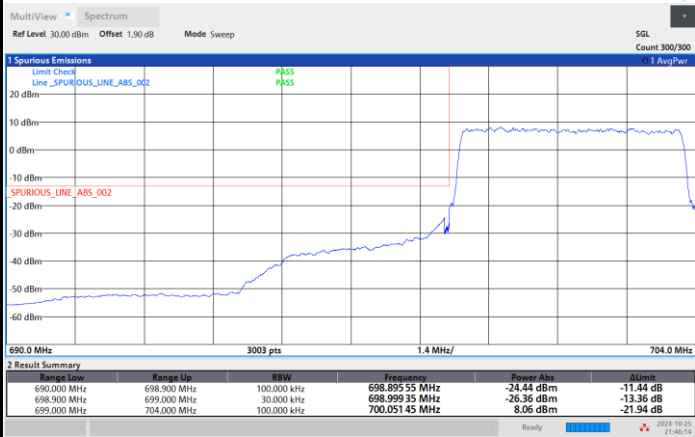
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

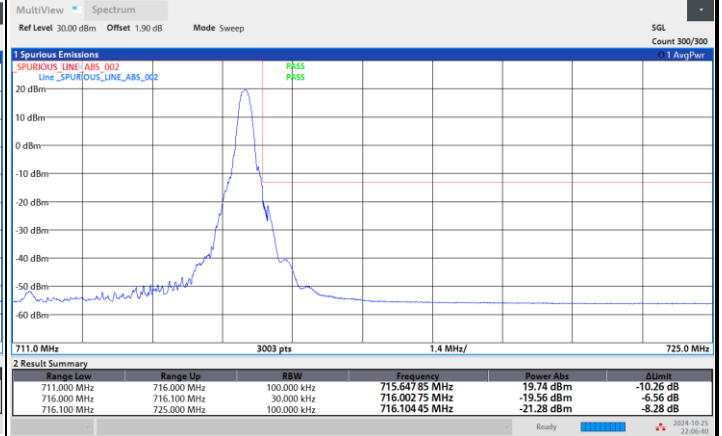
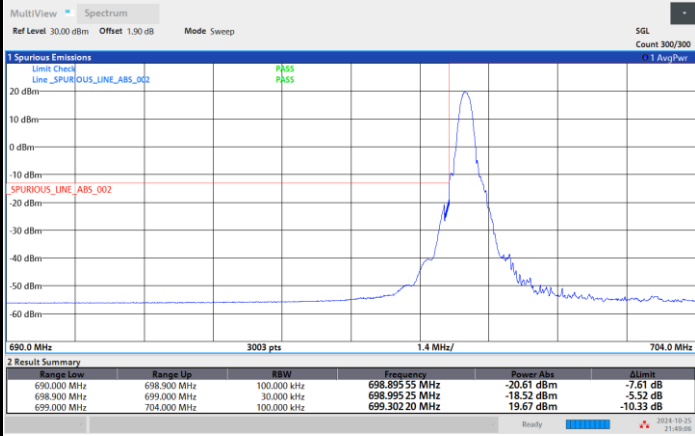




FR1 n12 / 5MHz / DFT-S OFDM / 16QAM

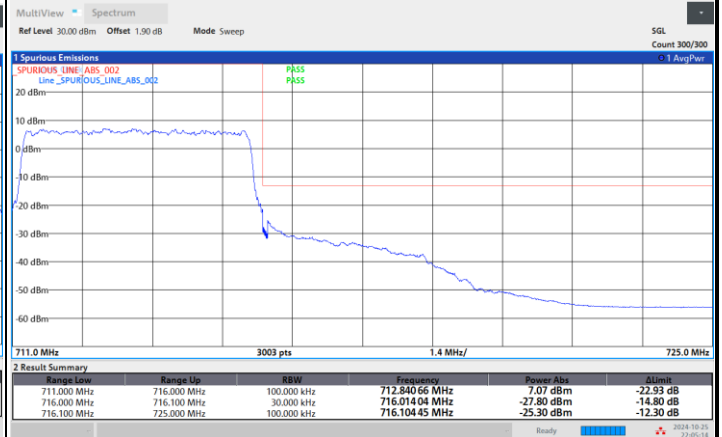
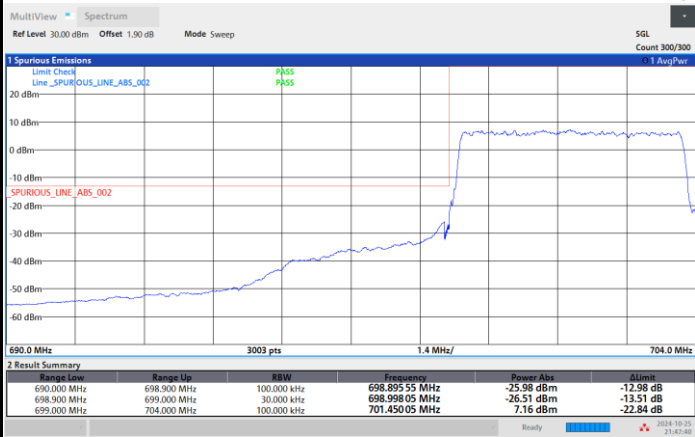
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

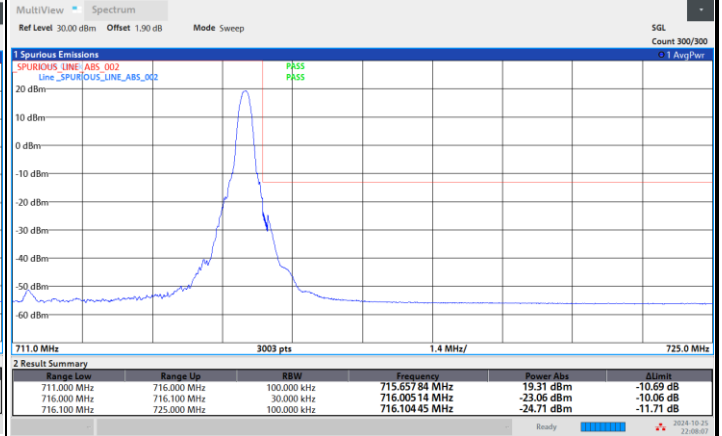
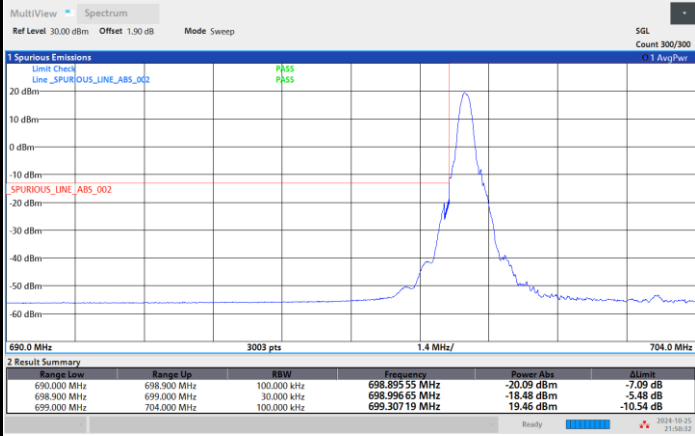




FR1 n12 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

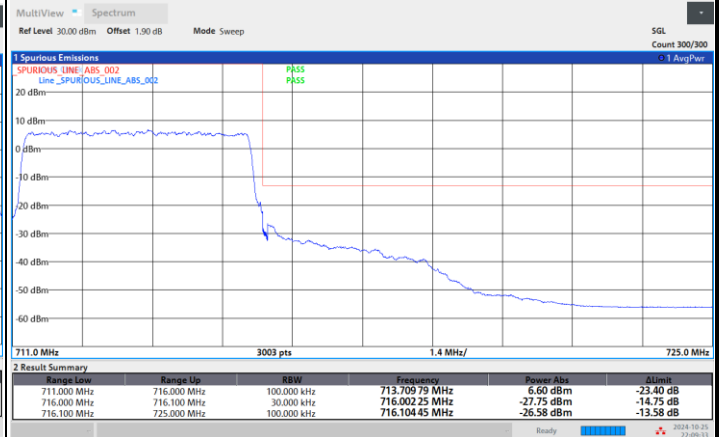
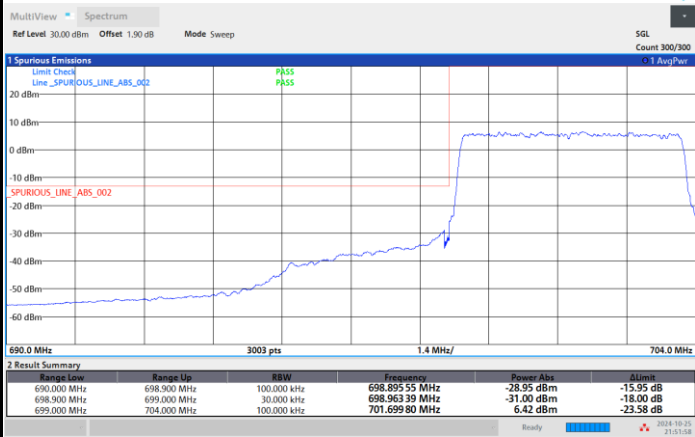


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10:08:07 PM 10/25/2024

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



09:51:59 PM 10/25/2024

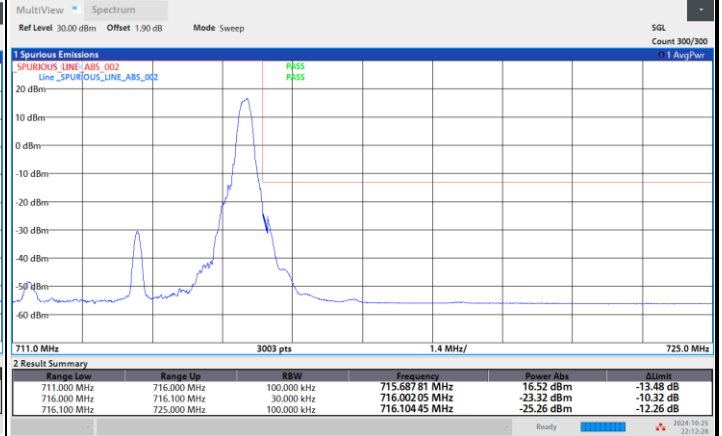
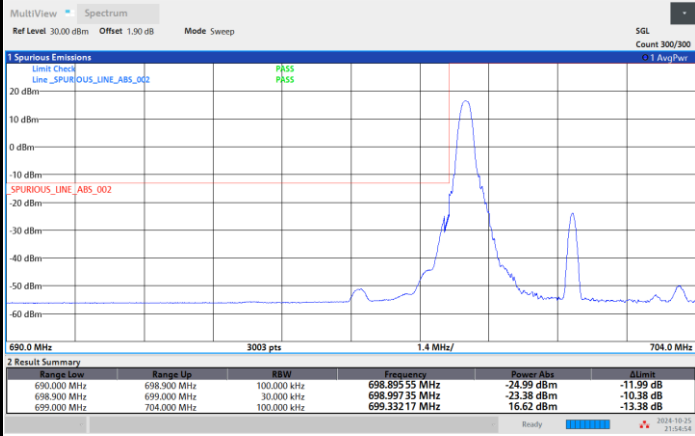
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FR1 n12 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

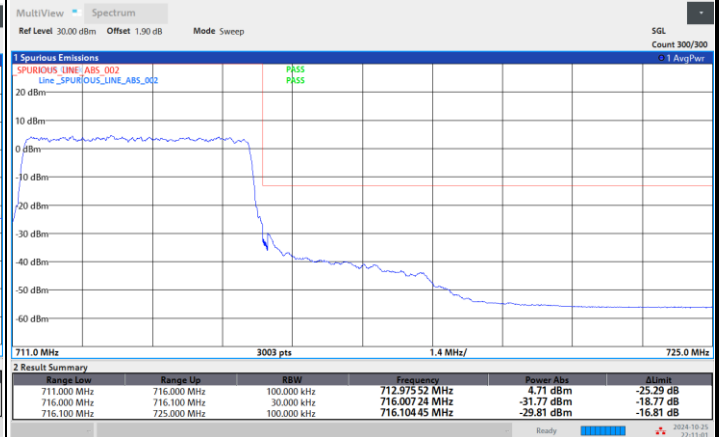
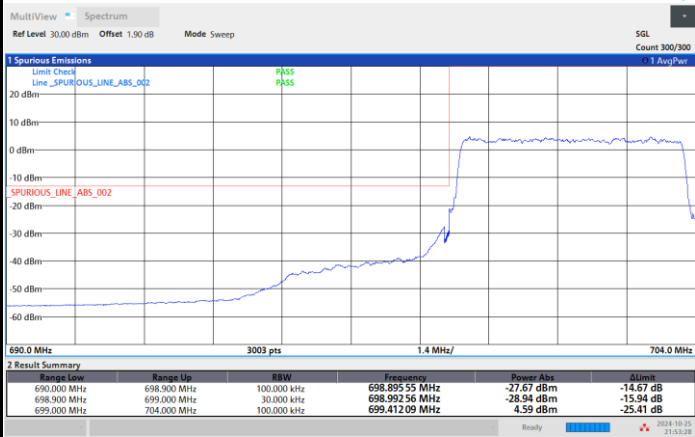


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10:12:28 PM 10/25/2024

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



09:53:28 PM 10/25/2024

10:11:01 PM 10/25/2024