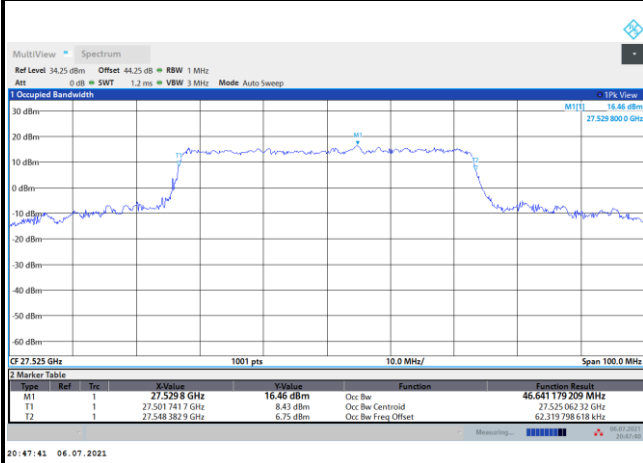




CP-OFDM Module B

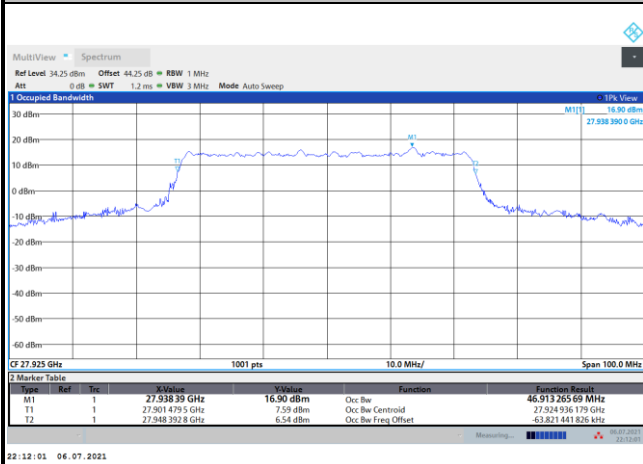
NR Band n261

Lowest Channel / 50MHz / QPSK



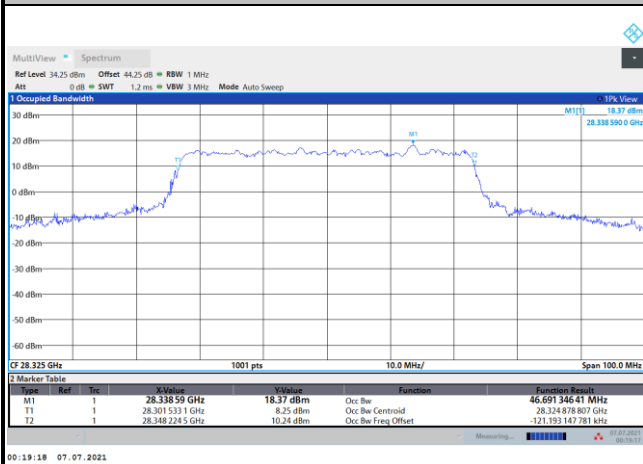
intentionally blank

Middle Channel / 50MHz / QPSK



intentionally blank

Highest Channel / 50MHz / QPSK



intentionally blank



Radiated Out of Band Emissions

| Mode | | | DFT-s-OFDM Module B NR Band n261 : BE (dBm) 1 RB | | |
|-------------|---------|-------|--|--------|--------|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≤ -5 | -22.54 | -5.97 | -7.08 |
| | >10%OB | ≤ -13 | -26.67 | -18.28 | -19.35 |
| HighCH | 0~10%OB | ≤ -5 | -19.55 | -5.90 | -7.61 |
| | >10%OB | ≤ -13 | -25.28 | -17.31 | -19.46 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module B NR Band n261 : BE (dBm) 1 RB | | |
|-------------|---------|-------|---|--|--|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | | |
| Low CH | 0~10%OB | ≤ -5 | -7.04 | | |
| | >10%OB | ≤ -13 | -18.68 | | |
| High CH | 0~10%OB | ≤ -5 | -20.26 | | |
| | >10%OB | ≤ -13 | -24.71 | | |
| Result | | | Compliance | | |

| Mode | | | DFT-s-OFDM Module B NR Band n261 : BE (dBm) Full RB | | |
|-------------|---------|-------|---|--------|--------|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≤ -5 | -13.32 | -16.30 | -19.11 |
| | >10%OB | ≤ -13 | -16.16 | -20.38 | -26.60 |
| HighCH | 0~10%OB | ≤ -5 | -13.75 | -14.91 | -17.56 |
| | >10%OB | ≤ -13 | -17.12 | -20.81 | -28.17 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module B NR Band n261 : BE (dBm) Full RB | | |
|-------------|---------|-------|--|--|--|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | | |
| Low CH | 0~10%OB | ≤ -5 | -15.57 | | |
| | >10%OB | ≤ -13 | -18.21 | | |
| High CH | 0~10%OB | ≤ -5 | -13.97 | | |
| | >10%OB | ≤ -13 | -18.14 | | |
| Result | | | Compliance | | |

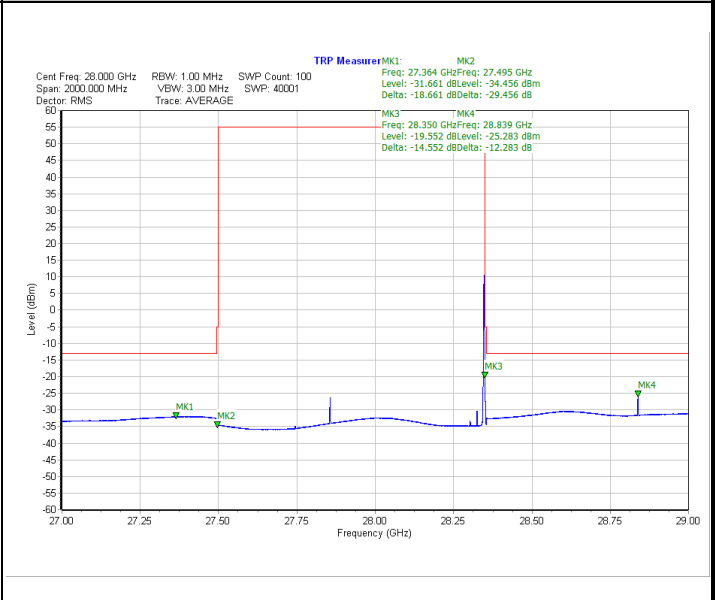
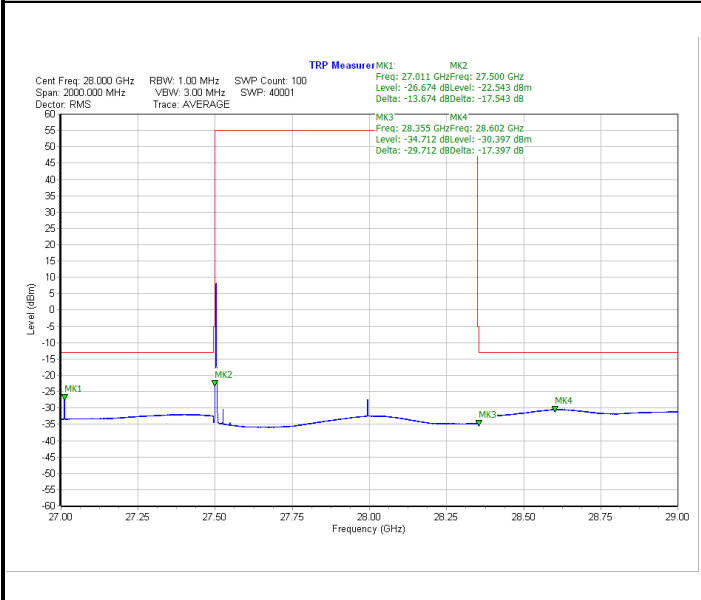


DFT-s-OFDM Module B

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

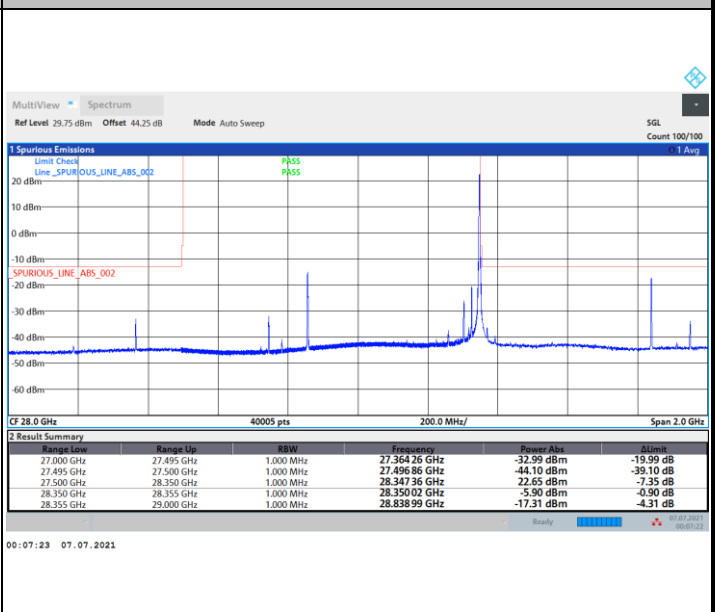
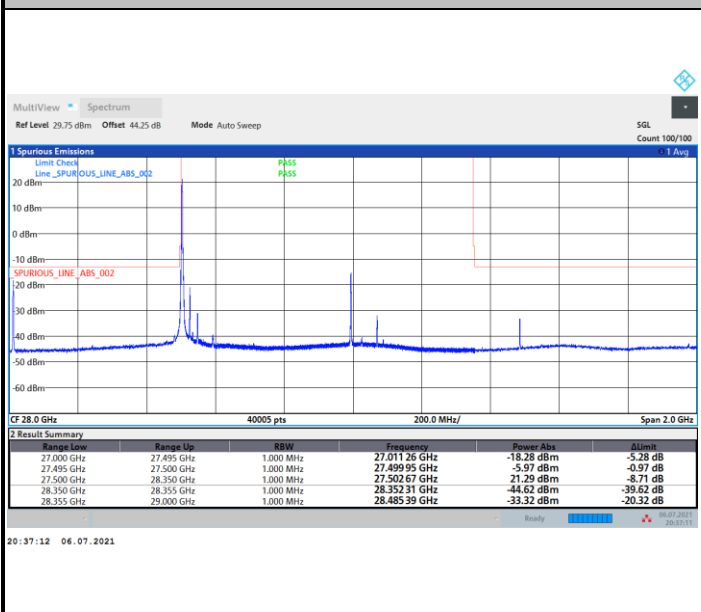
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / 16QAM

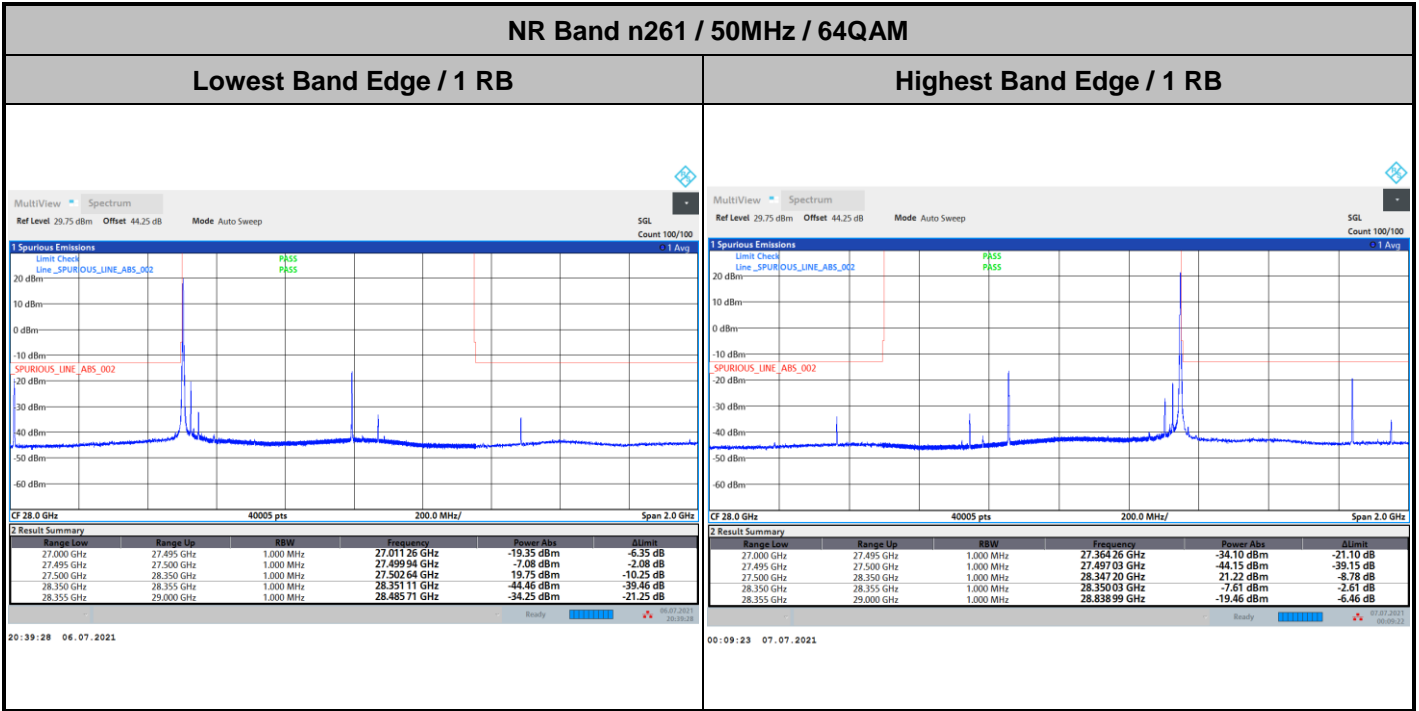
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

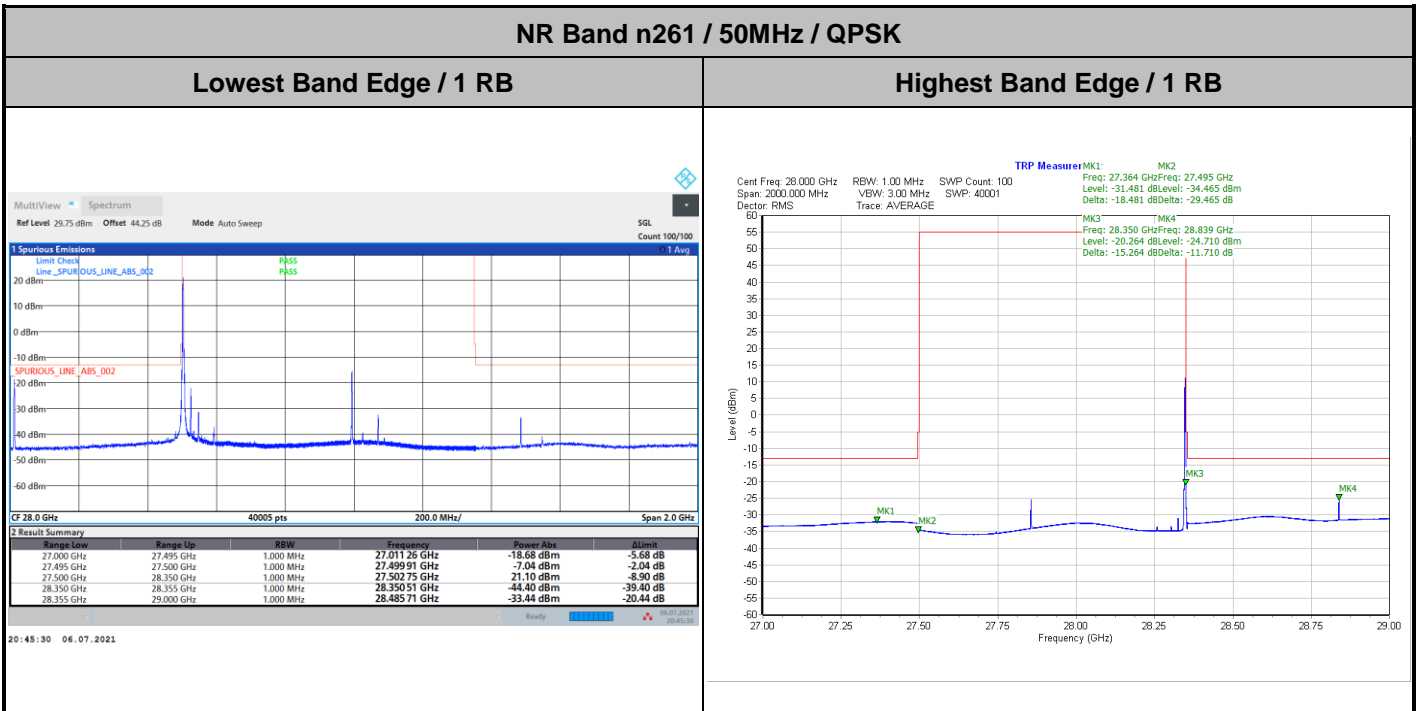




DFT-s-OFDM Module B



CP-OFDM Module B

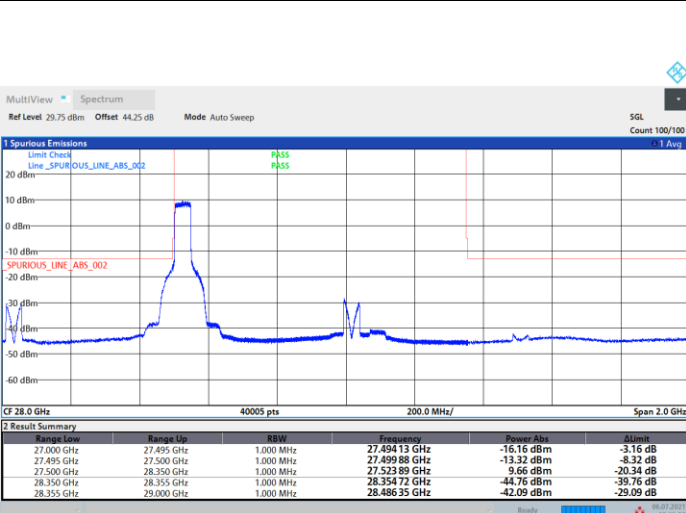




DFT-s-OFDM Module B

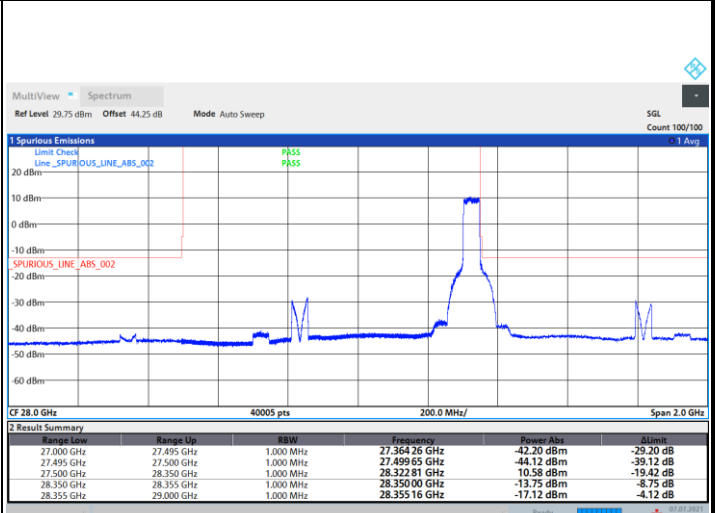
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



20:35:18 06.07.2021

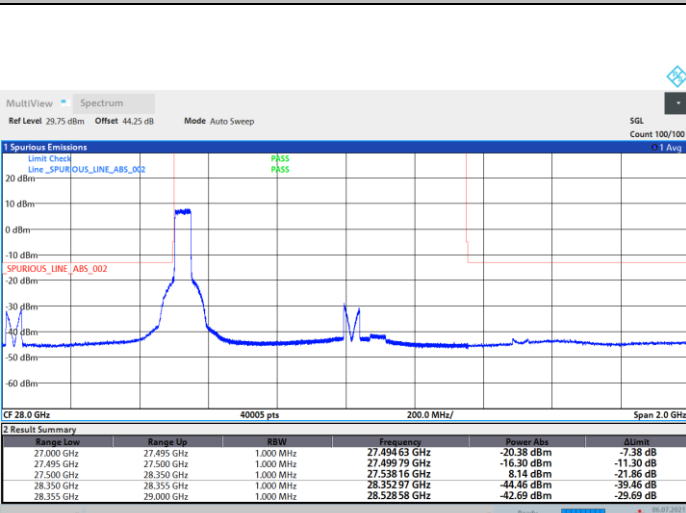
Highest Band Edge / Full RB



00:04:13 07.07.2021

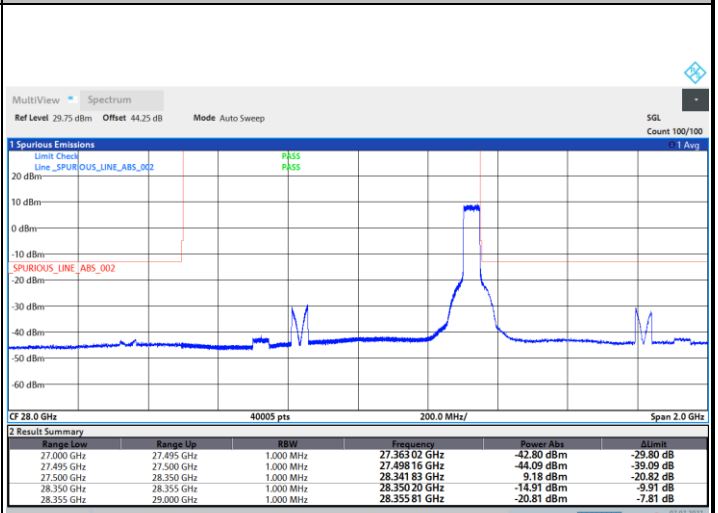
NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB



20:36:15 06.07.2021

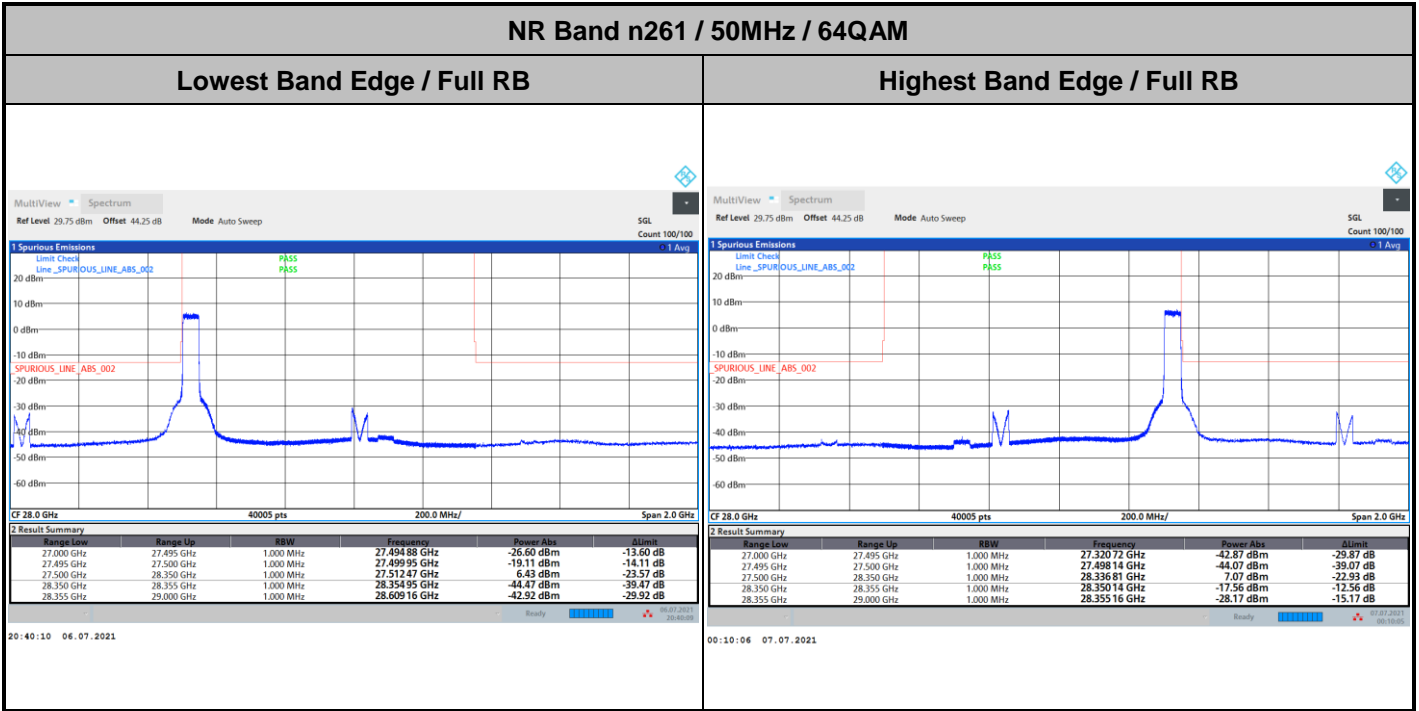
Highest Band Edge / Full RB



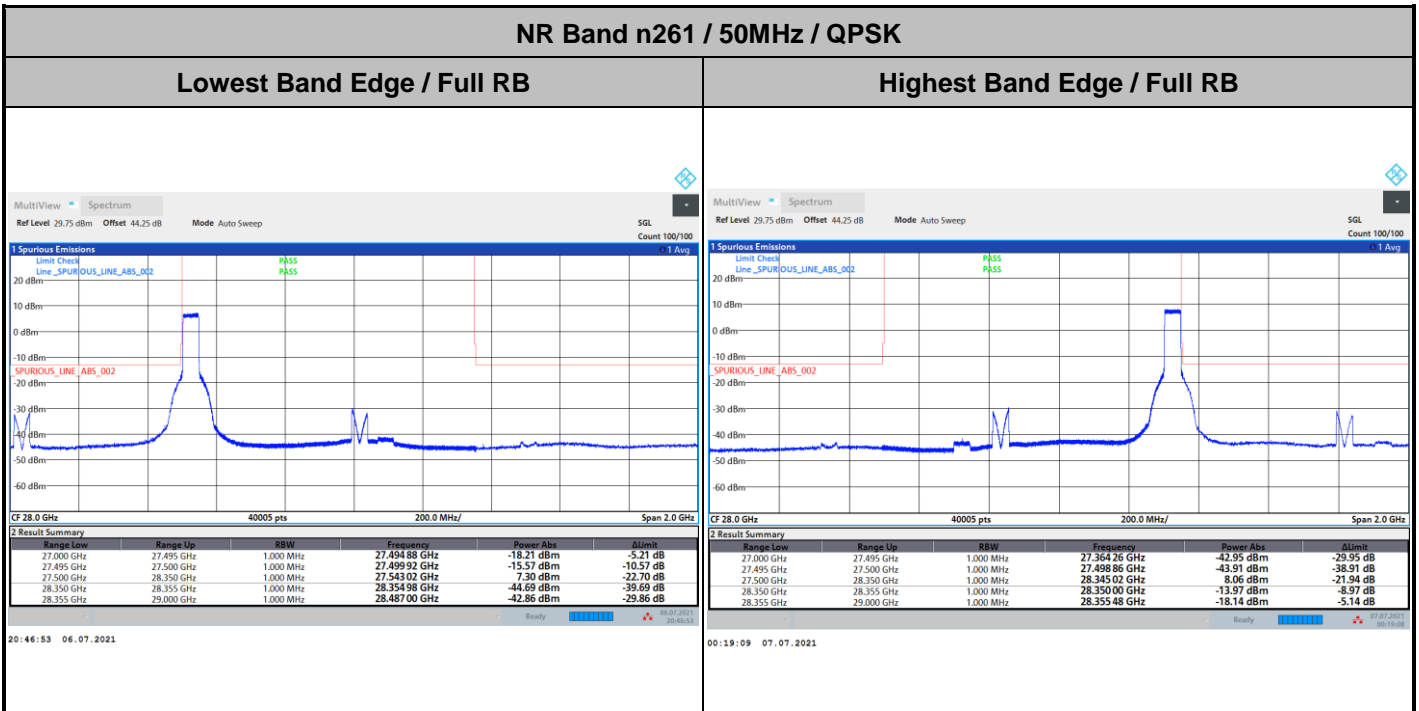
00:06:06 07.07.2021



DFT-s-OFDM Module B



CP-OFDM Module B



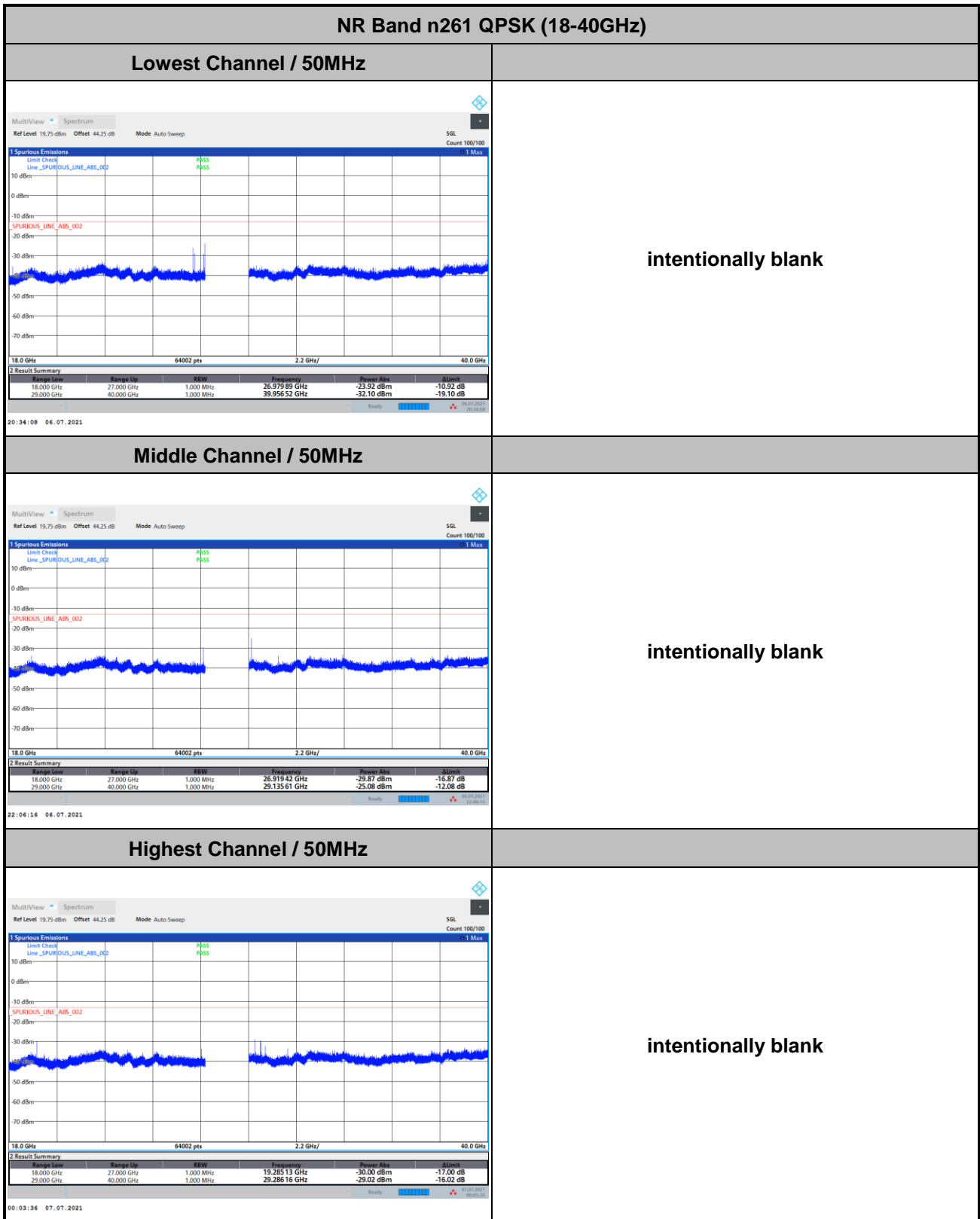


Spurious Emission



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

DFT-s-OFDM Module B



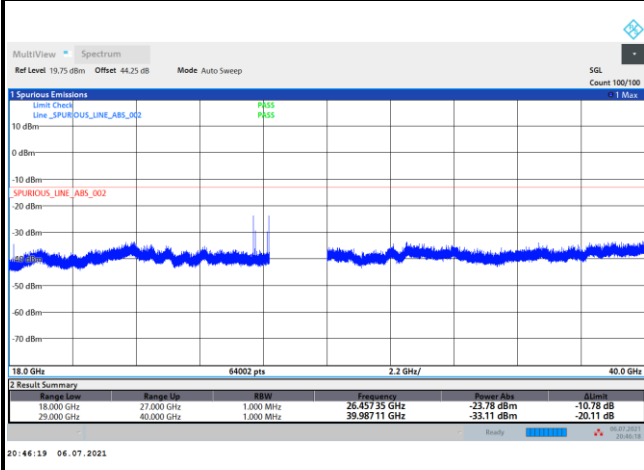
Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module B

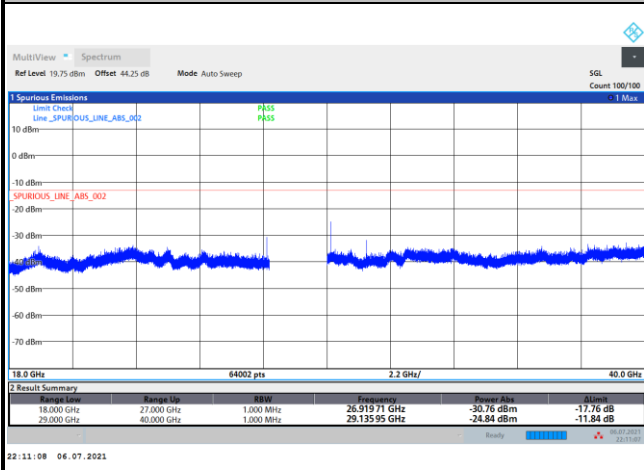
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



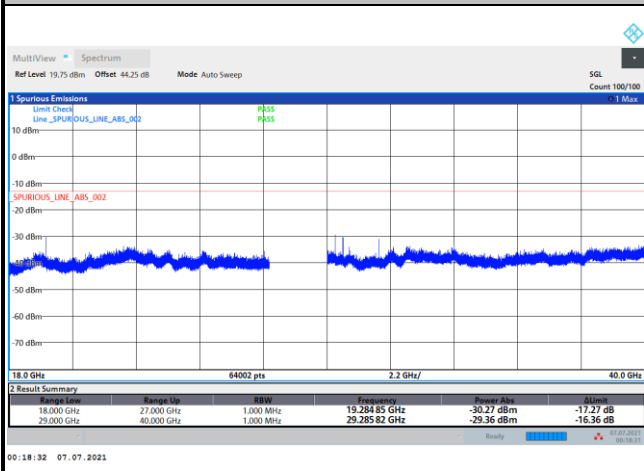
intentionally blank

Middle Channel / 50MHz



intentionally blank

Highest Channel / 50MHz



intentionally blank

Remark: In band and out of band frequencies that has reported in previous results are omitted.



NR Band n261 Module B Beam V

Occupied Bandwidth

| Mode | DFT-s-OFDM Module B NR Band n261 : 99%OBW(MHz) | | |
|------------|--|-------|-------|
| BW | 50MHz | | |
| Mod. | QPSK | 16QAM | 64QAM |
| Lowest CH | 46.10 | 46.44 | 46.12 |
| Middle CH | 46.07 | 46.39 | 46.01 |
| Highest CH | 45.99 | 46.13 | 46.05 |

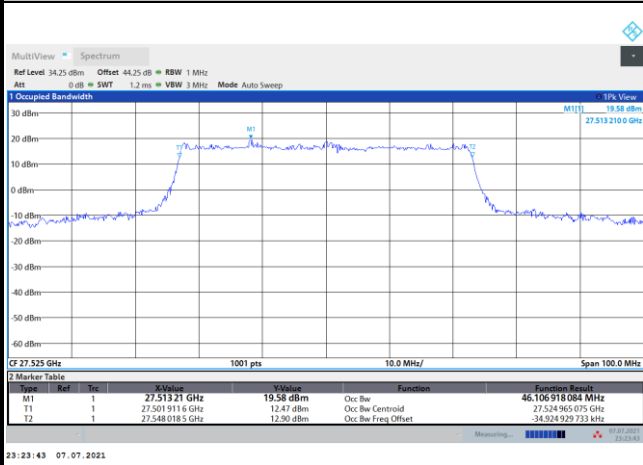
| Mode | CP-OFDM Module B NR Band n261 : 99%OBW(MHz) | |
|------------|---|--|
| BW | 50MHz | |
| Mod. | QPSK | |
| Lowest CH | 46.35 | |
| Middle CH | 46.28 | |
| Highest CH | 46.42 | |



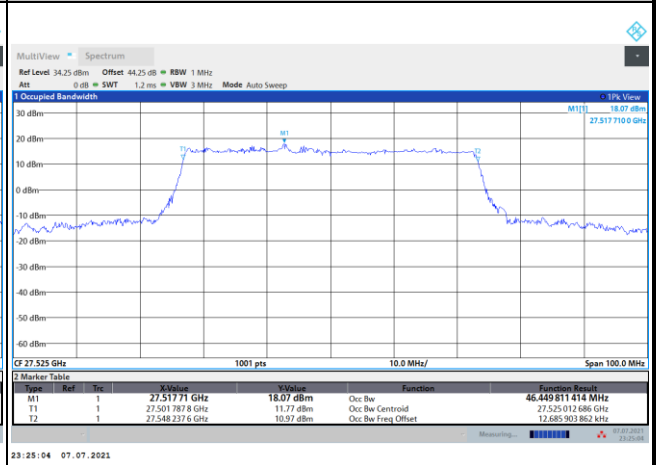
DFT-s-OFDM Module B

NR Band n261

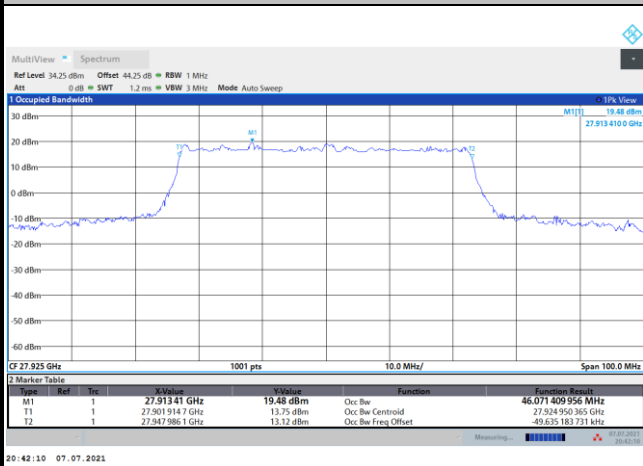
Lowest Channel / 50MHz / QPSK



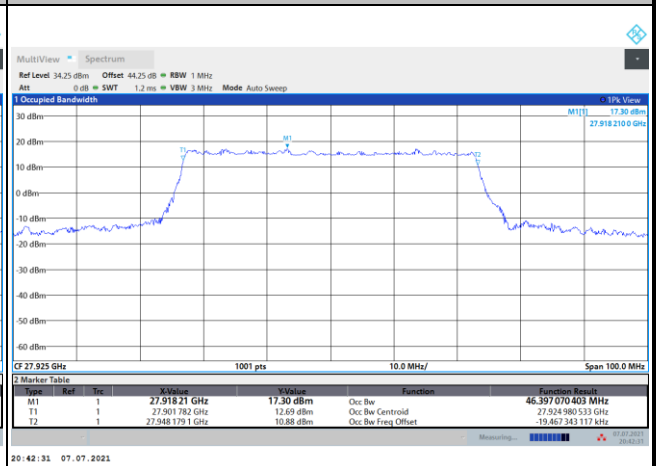
Lowest Channel / 50MHz / 16QAM



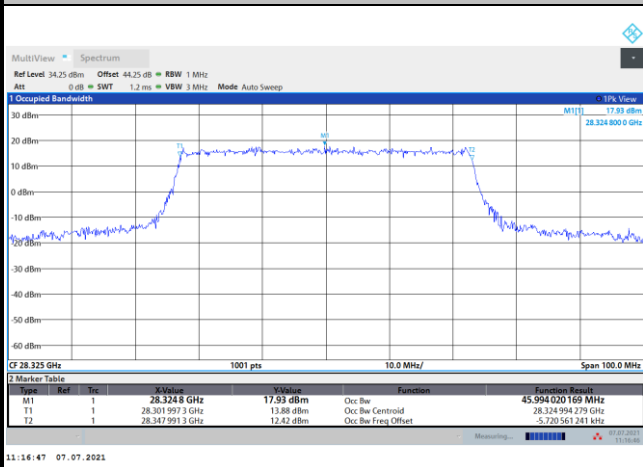
Middle Channel / 50MHz / QPSK



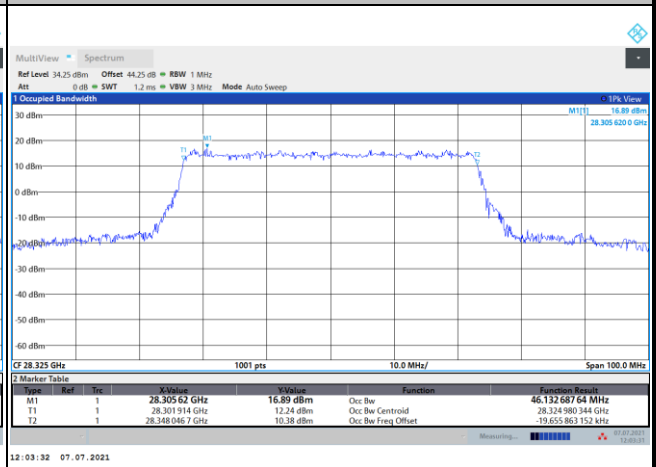
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

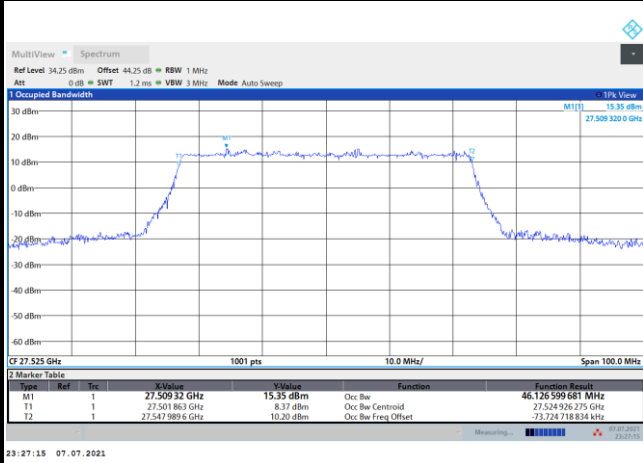




DFT-s-OFDM Module B

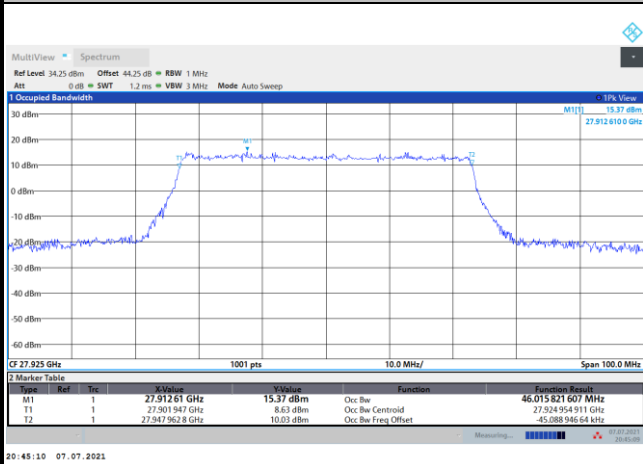
NR Band n261

Lowest Channel / 50MHz / 64QAM



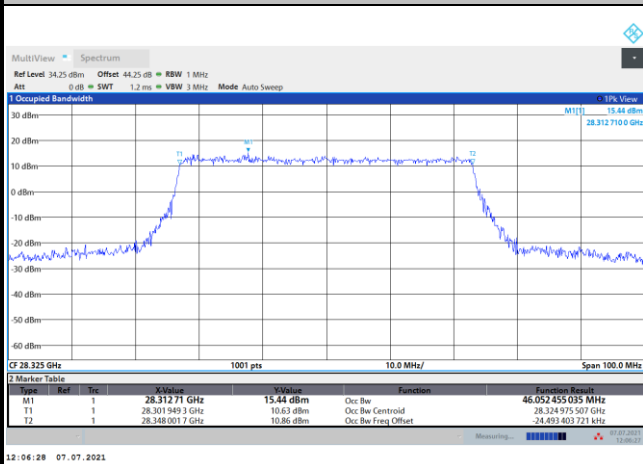
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Middle Channel / 50MHz / 64QAM



intentionally blank

Highest Channel / 50MHz / 64QAM



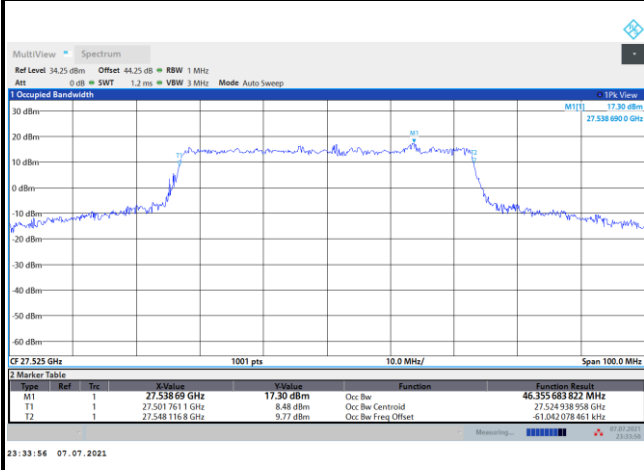
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CP-OFDM Module B

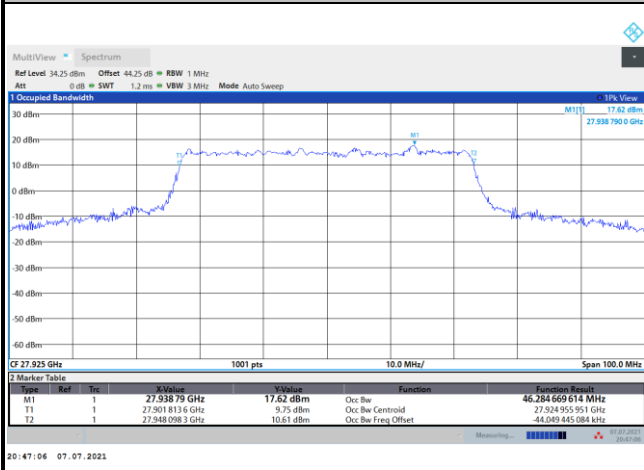
NR Band n261

Lowest Channel / 50MHz / QPSK



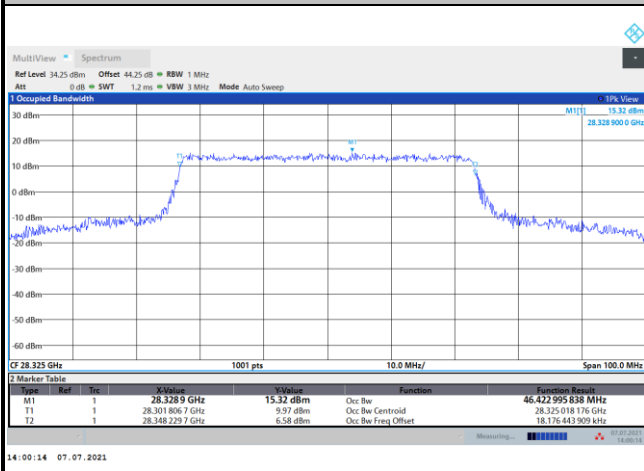
intentionally blank

Middle Channel / 50MHz / QPSK



intentionally blank

Highest Channel / 50MHz / QPSK



intentionally blank



Radiated Out of Band Emissions

| Mode | | | DFT-s-OFDM Module B NR Band n261 : BE (dBm) 1 RB | | |
|-------------|---------|------|--|--------|--------|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≤-5 | -17.79 | -7.78 | -7.97 |
| | >10%OB | ≤-13 | -23.07 | -18.68 | -20.08 |
| HighCH | 0~10%OB | ≤-5 | -6.51 | -9.14 | -10.01 |
| | >10%OB | ≤-13 | -17.00 | -19.80 | -21.34 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module B NR Band n261 : BE (dBm) 1 RB | | |
|-------------|---------|------|---|--|--|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | | |
| Low CH | 0~10%OB | ≤-5 | -7.45 | | |
| | >10%OB | ≤-13 | -17.84 | | |
| High CH | 0~10%OB | ≤-5 | -8.21 | | |
| | >10%OB | ≤-13 | -20.23 | | |
| Result | | | Compliance | | |

| Mode | | | DFT-s-OFDM Module B NR Band n261 : BE (dBm) Full RB | | |
|-------------|---------|------|---|--------|--------|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≤-5 | -12.85 | -16.17 | -18.06 |
| | >10%OB | ≤-13 | -17.68 | -19.46 | -26.73 |
| HighCH | 0~10%OB | ≤-5 | -16.04 | -17.67 | -19.20 |
| | >10%OB | ≤-13 | -22.49 | -25.77 | -30.36 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module B NR Band n261 : BE (dBm) Full RB | | |
|-------------|---------|------|--|--|--|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | | |
| Low CH | 0~10%OB | ≤-5 | -15.41 | | |
| | >10%OB | ≤-13 | -17.34 | | |
| High CH | 0~10%OB | ≤-5 | -15.54 | | |
| | >10%OB | ≤-13 | -19.85 | | |
| Result | | | Compliance | | |

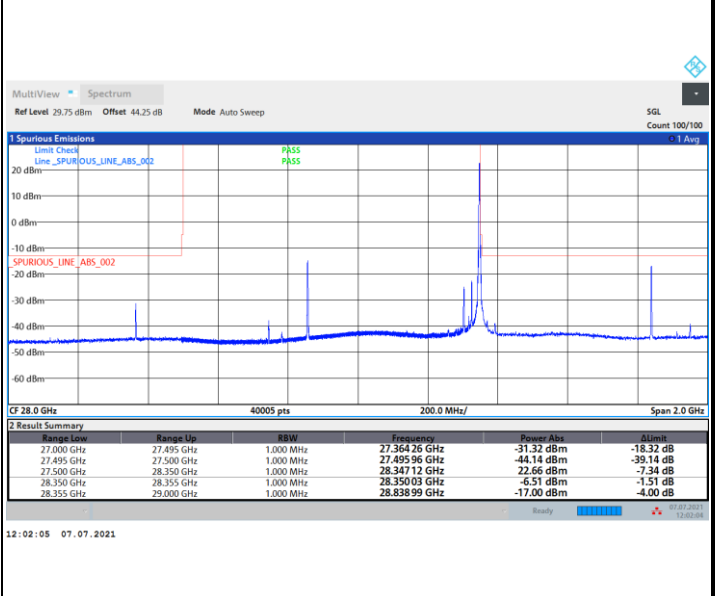
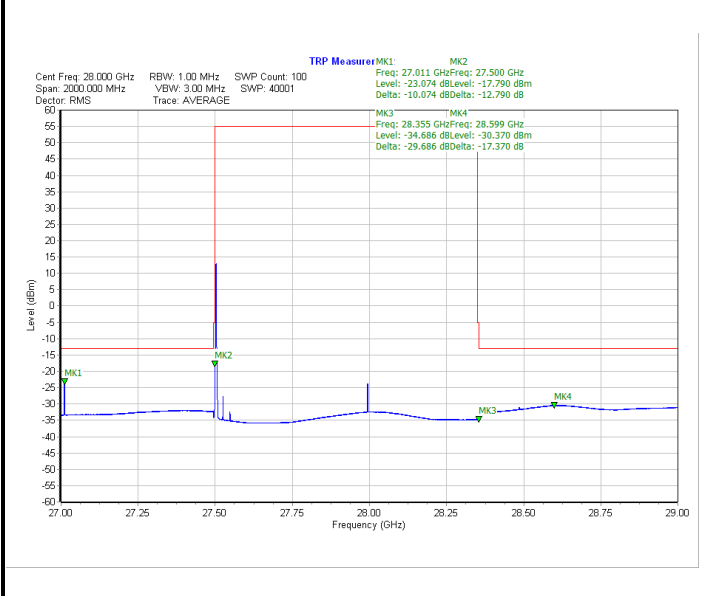


DFT-s-OFDM Module B

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

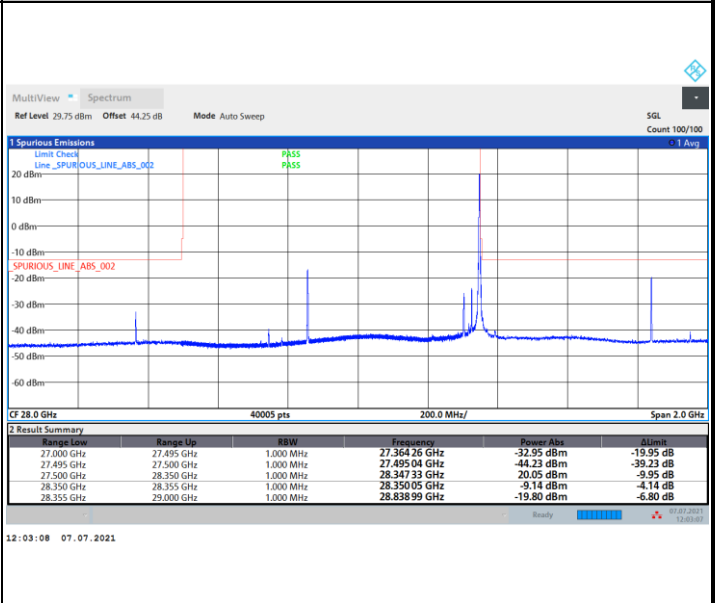
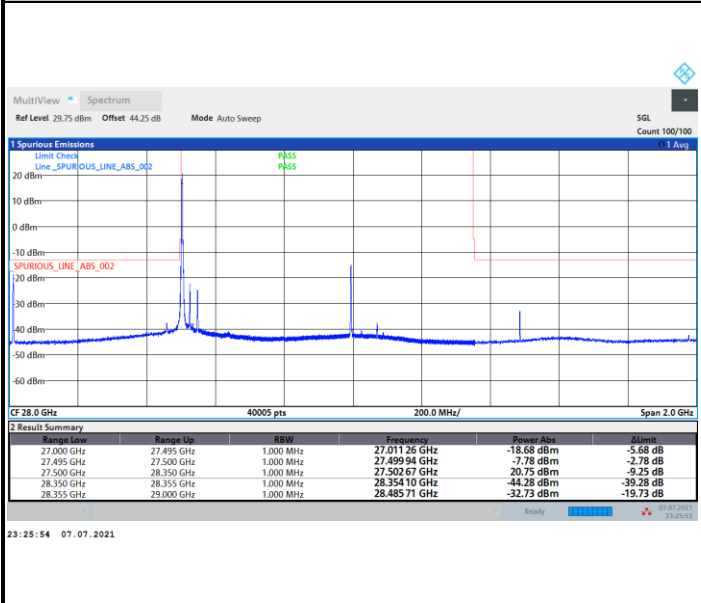
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / 16QAM

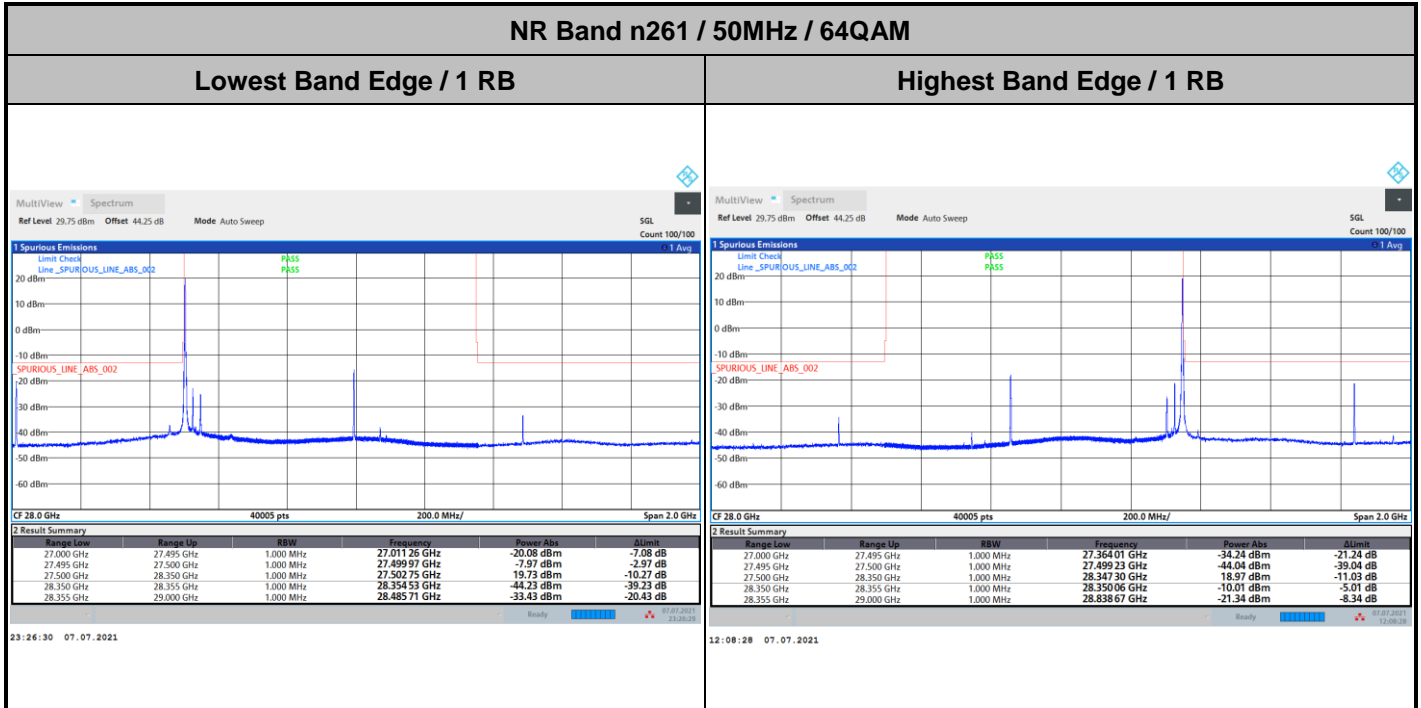
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

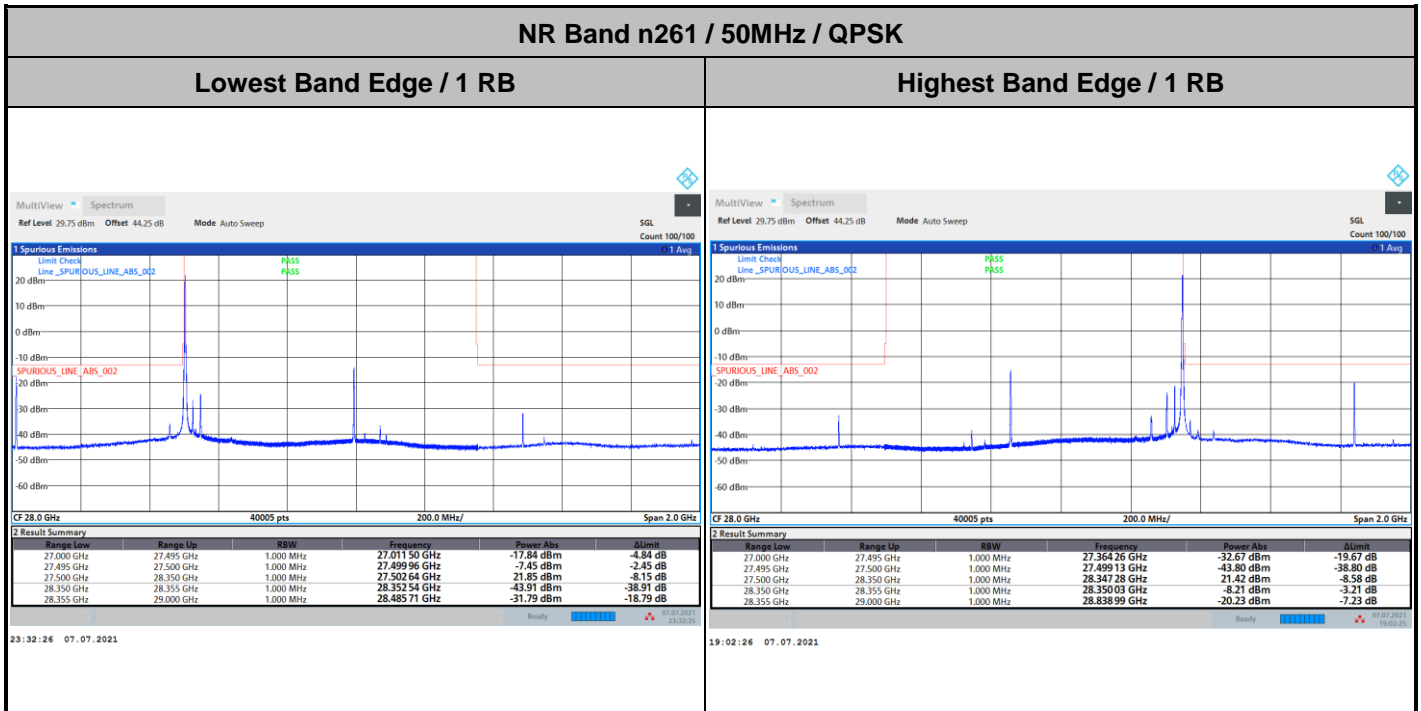




DFT-s-OFDM Module B



CP-OFDM Module B

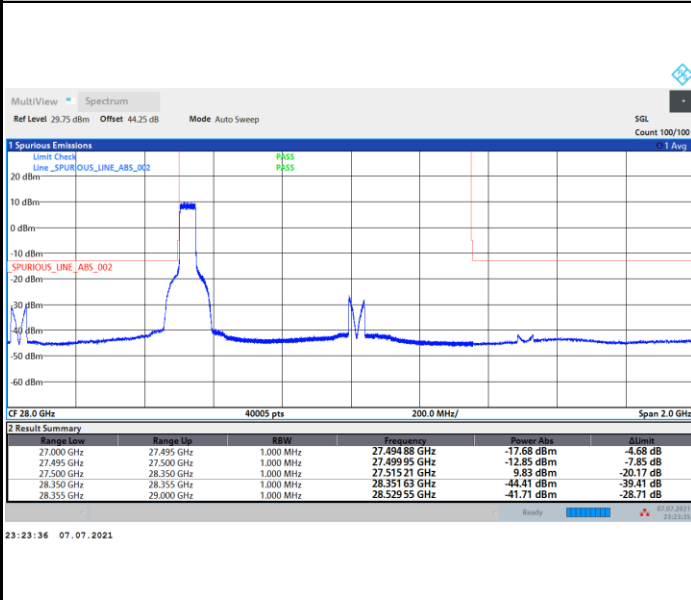




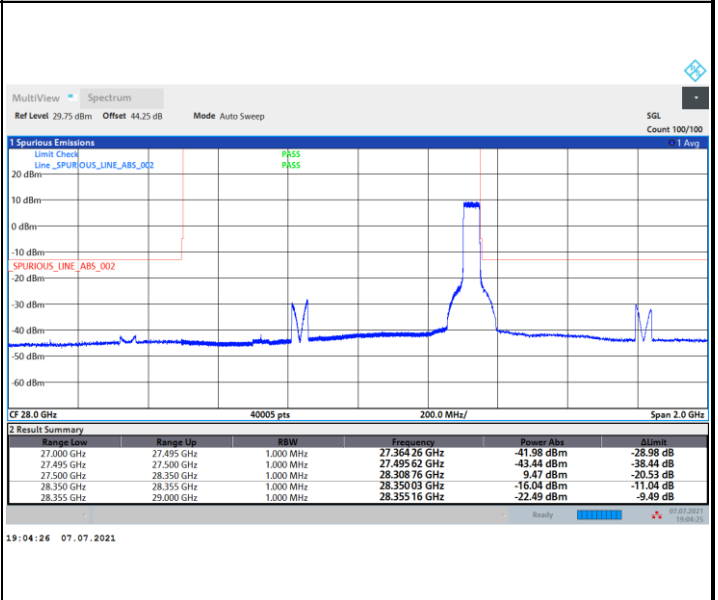
DFT-s-OFDM Module B

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

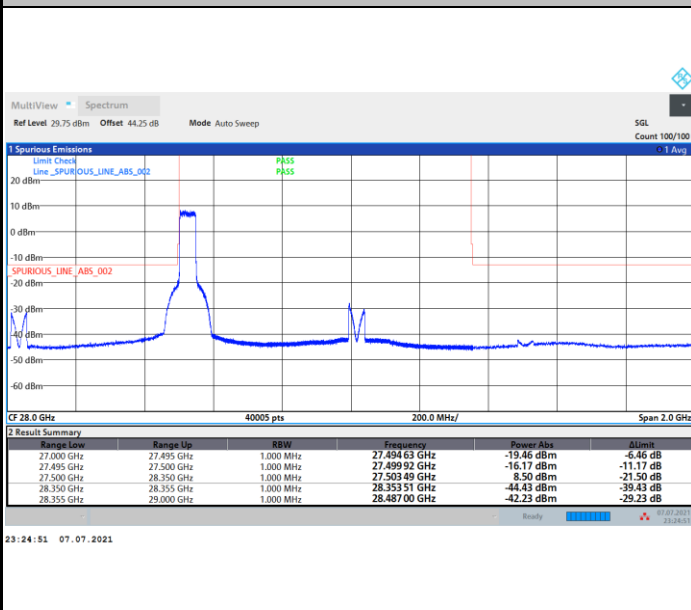


Highest Band Edge / Full RB

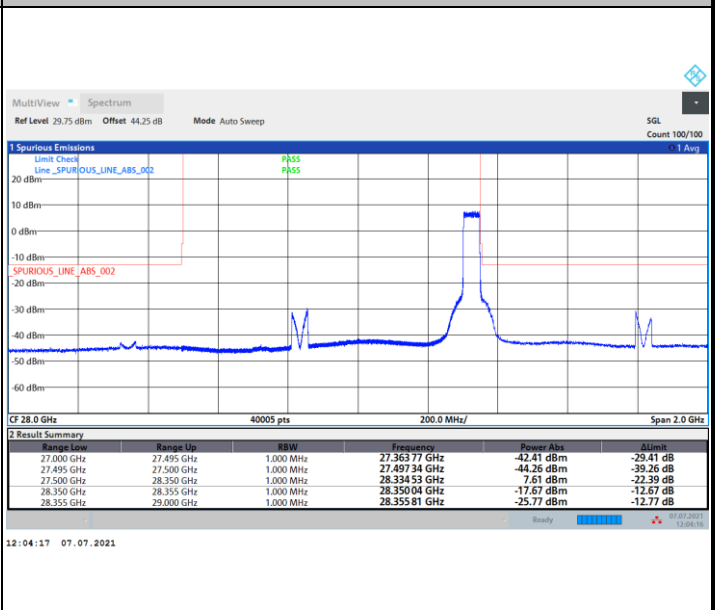


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB

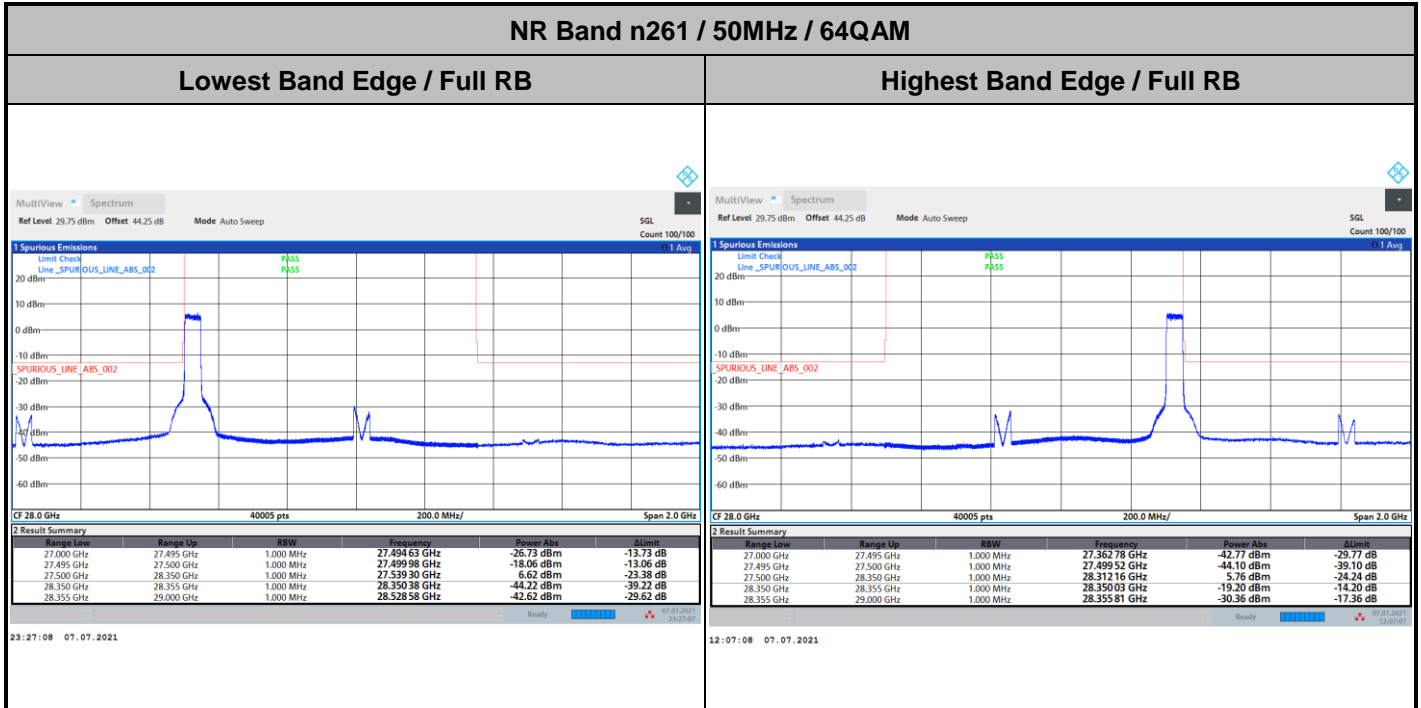


Highest Band Edge / Full RB

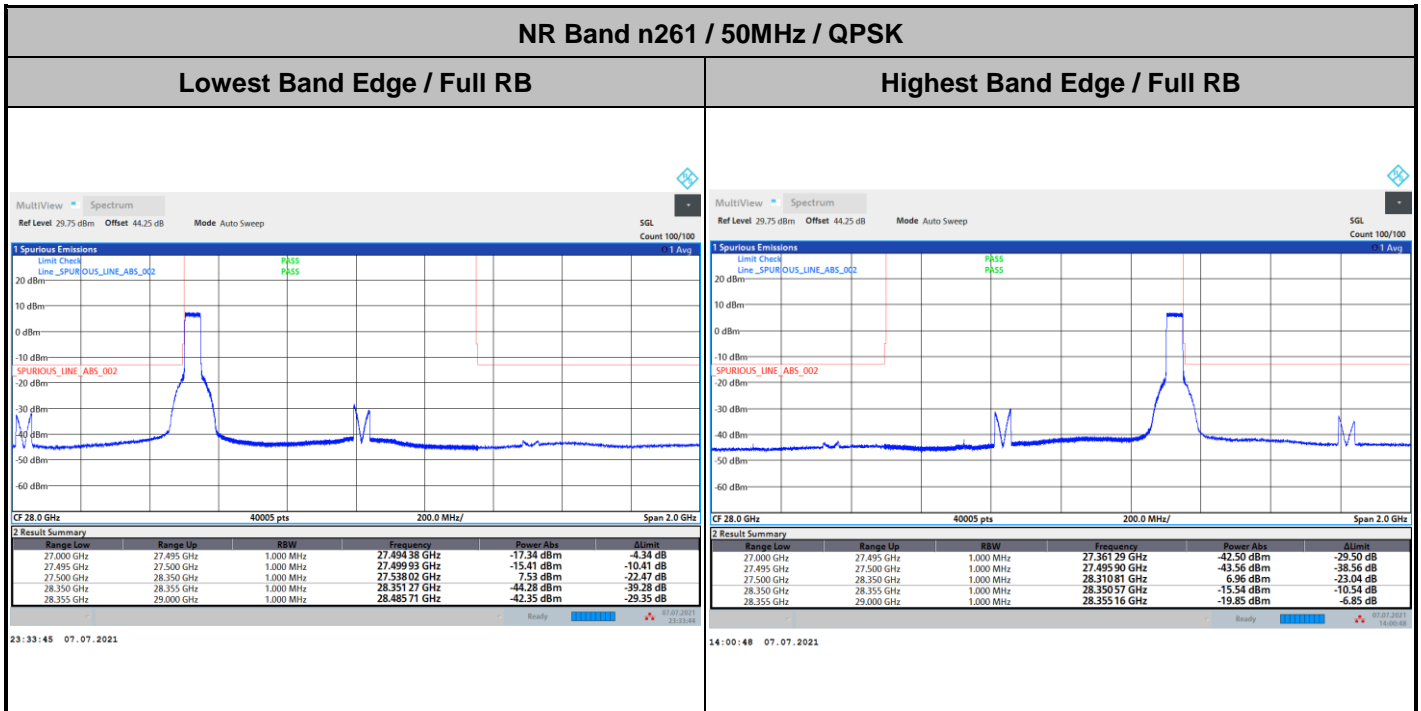




DFT-s-OFDM Module B



CP-OFDM Module B



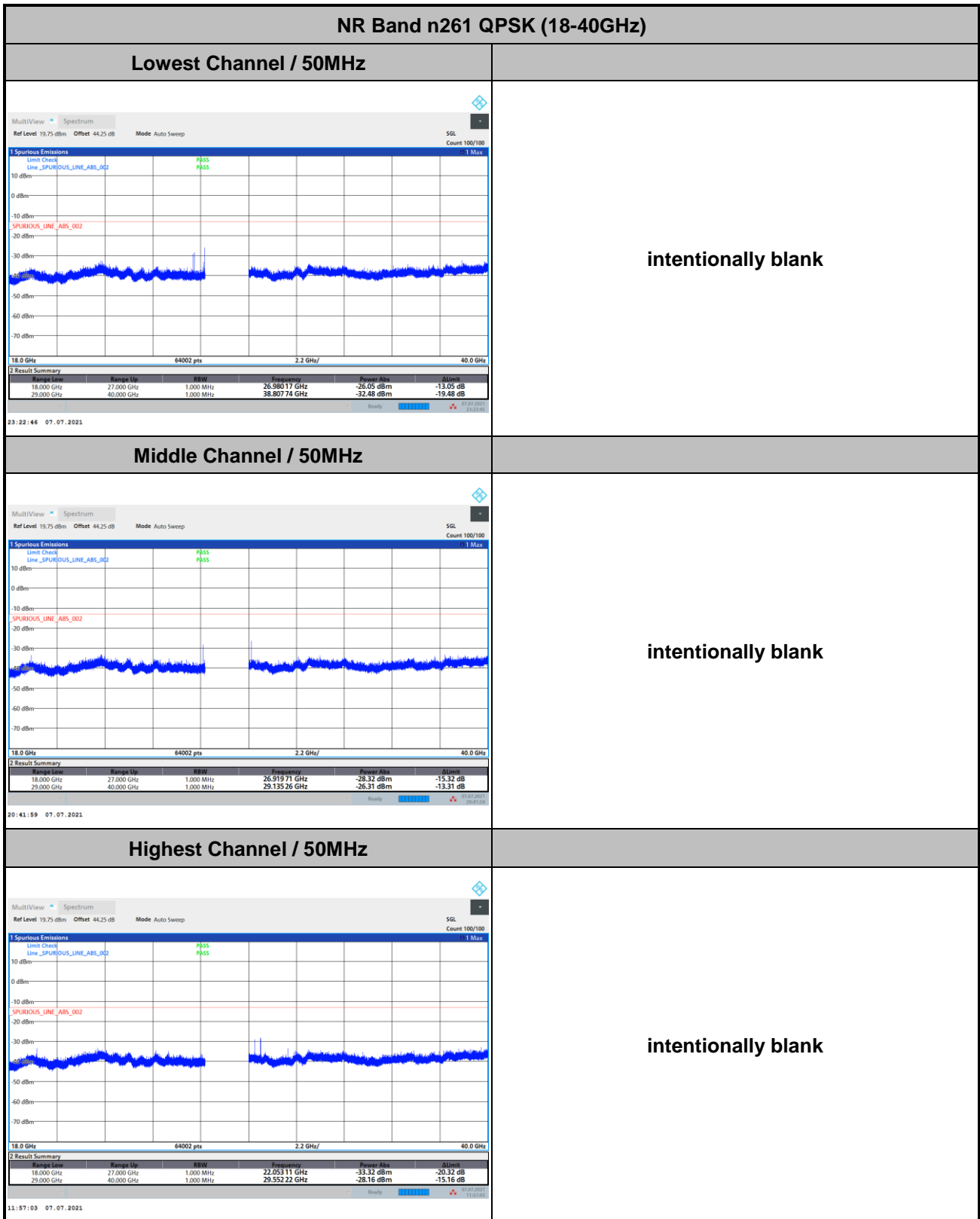


Spurious Emission



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

DFT-s-OFDM Module B



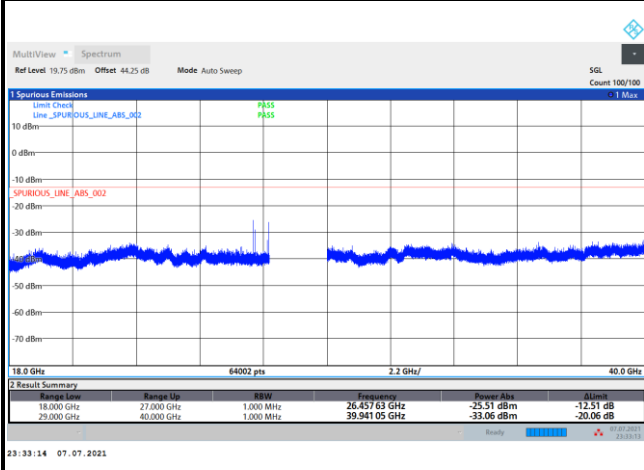
Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module B

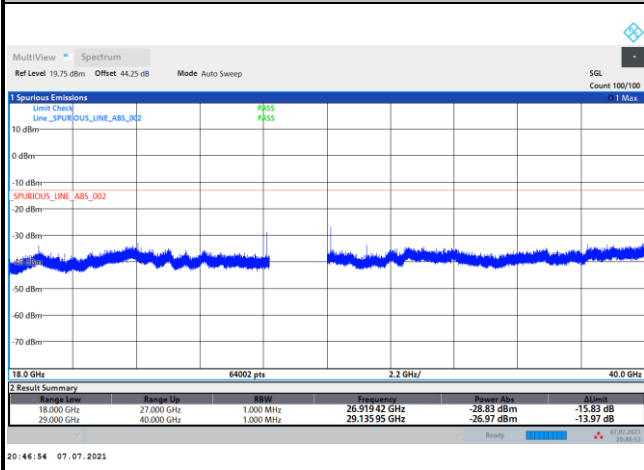
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



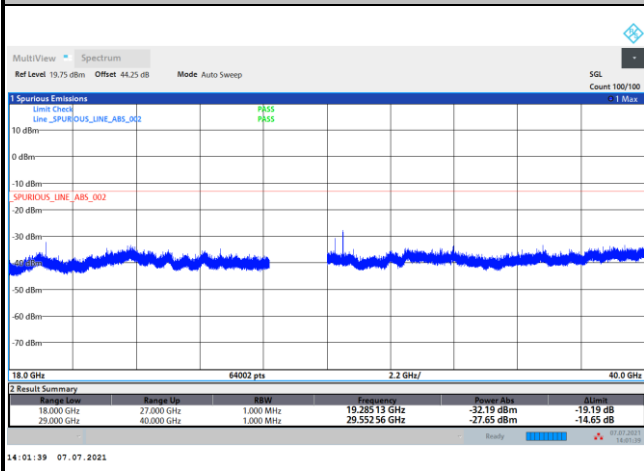
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Middle Channel / 50MHz



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Highest Channel / 50MHz



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Remark: In band and out of band frequencies that has reported in previous results are omitted.



NR Band n261 Module B Beam H+V

Occupied Bandwidth

| Mode | DFT-s-OFDM Module B NR Band n261 : 99%OBW(MHz) | | |
|------------|--|-------|-------|
| BW | 50MHz | | |
| Mod. | QPSK | 16QAM | 64QAM |
| Lowest CH | 46.58 | 46.54 | 46.16 |
| Middle CH | 46.41 | 46.60 | 46.33 |
| Highest CH | 46.53 | 46.45 | 46.15 |

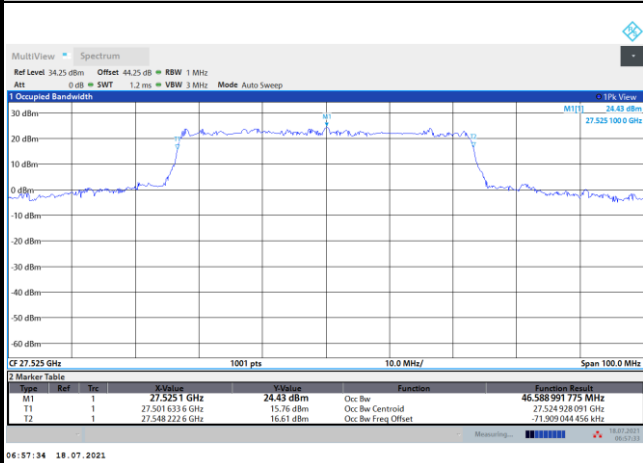
| Mode | CP-OFDM Module B NR Band n261 : 99%OBW(MHz) |
|------------|---|
| BW | 50MHz |
| Mod. | QPSK |
| Lowest CH | 46.78 |
| Middle CH | 47.01 |
| Highest CH | 46.57 |



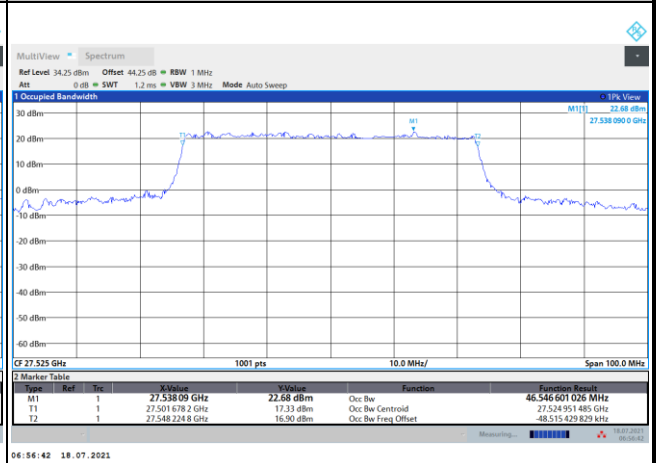
DFT-s-OFDM Module B

NR Band n261

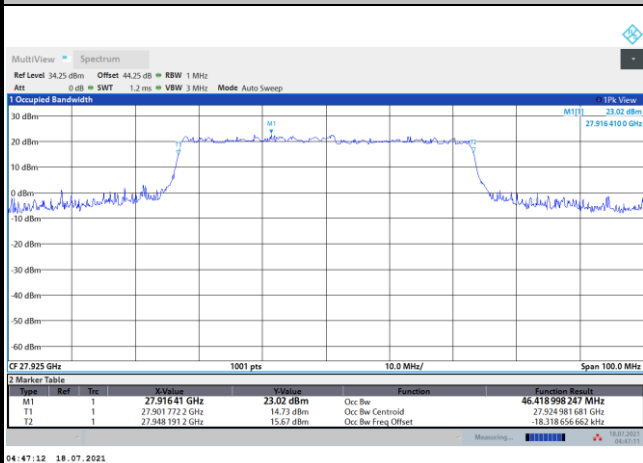
Lowest Channel / 50MHz / QPSK



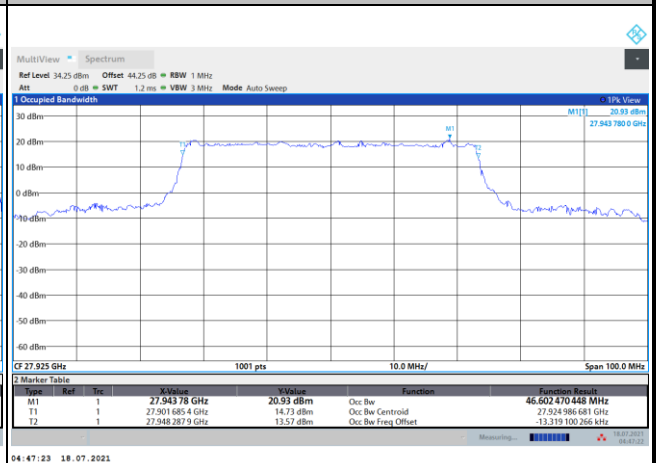
Lowest Channel / 50MHz / 16QAM



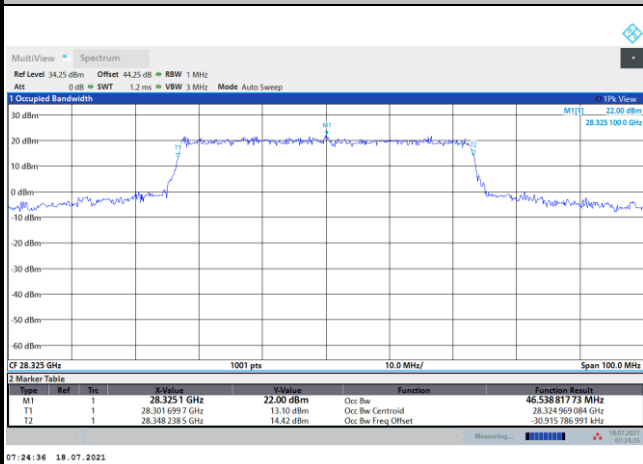
Middle Channel / 50MHz / QPSK



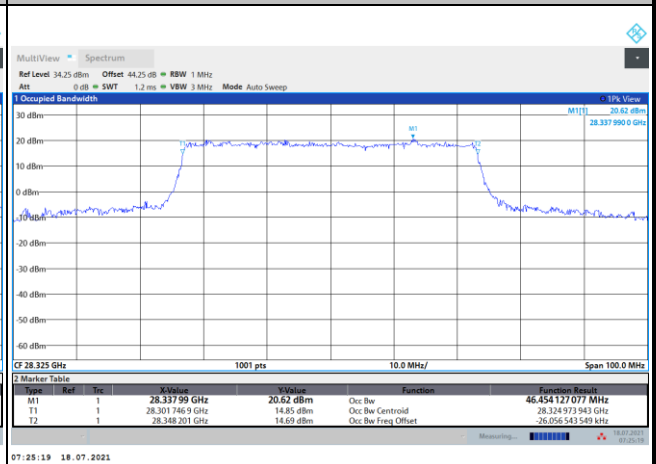
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

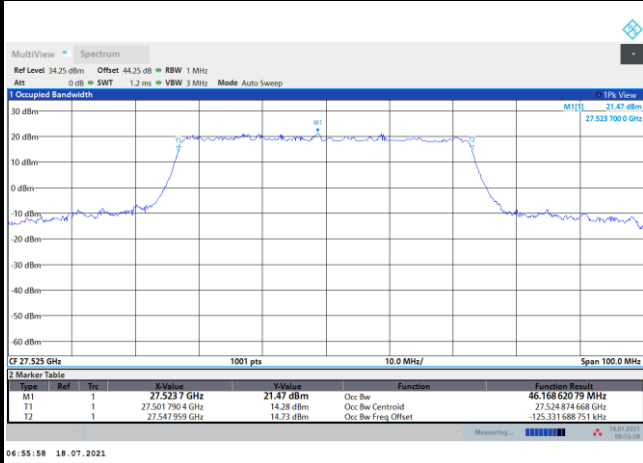




DFT-s-OFDM Module B

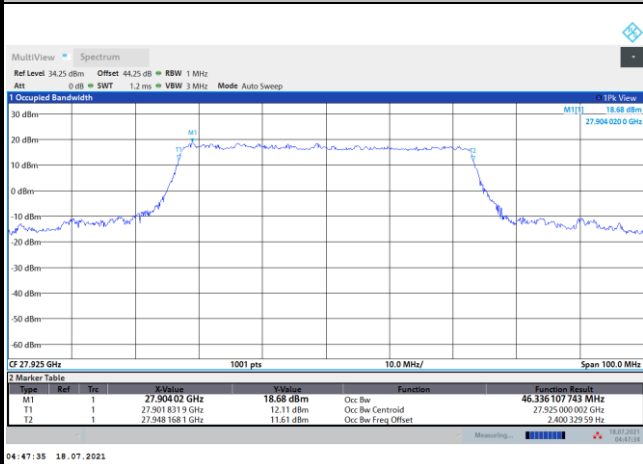
NR Band n261

Lowest Channel / 50MHz / 64QAM



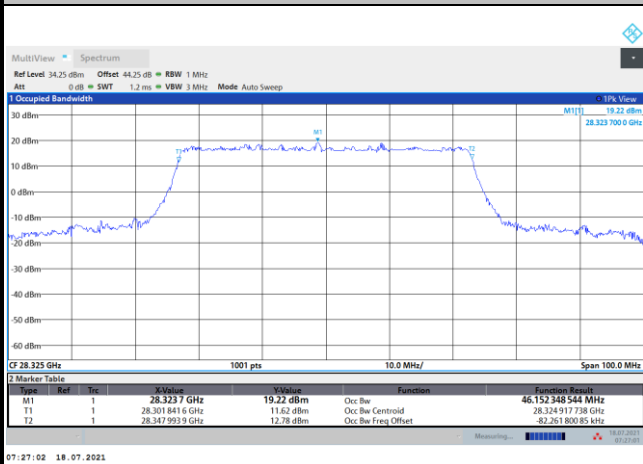
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Middle Channel / 50MHz / 64QAM



intentionally blank

Highest Channel / 50MHz / 64QAM



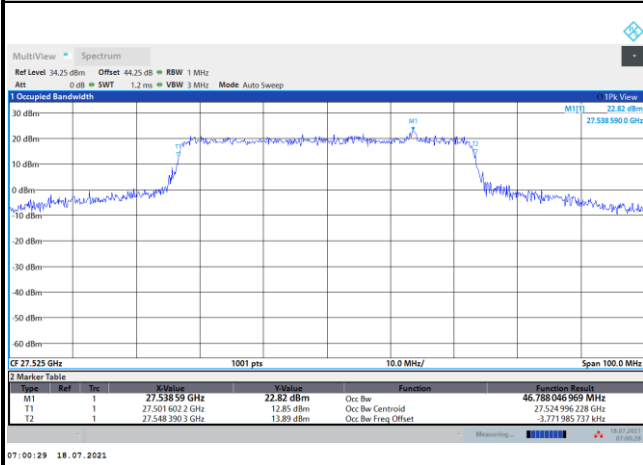
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CP-OFDM Module B

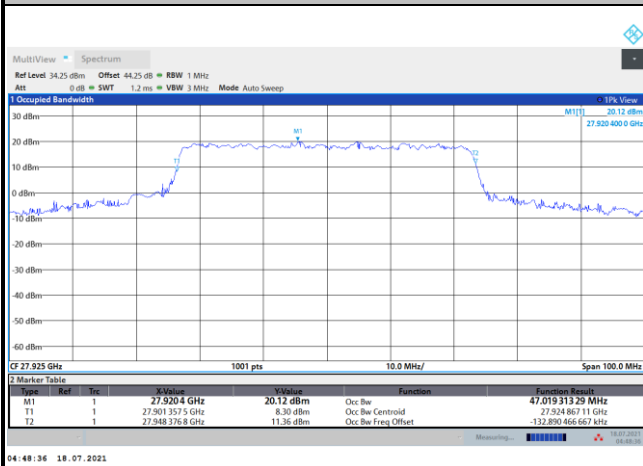
NR Band n261

Lowest Channel / 50MHz / QPSK



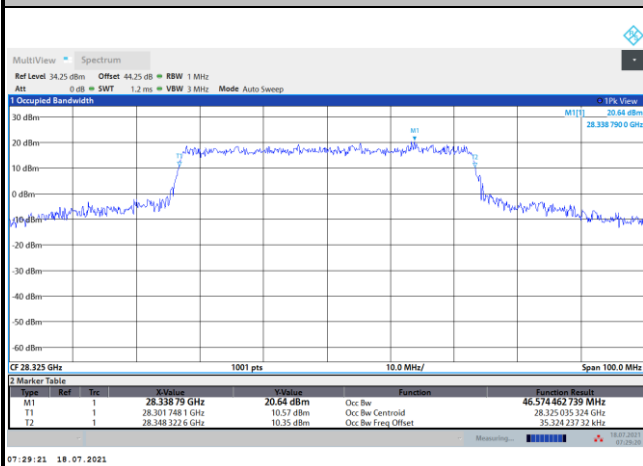
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Middle Channel / 50MHz / QPSK



intentionally blank

Highest Channel / 50MHz / QPSK



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Radiated Out of Band Emissions

| Mode | | | DFT-s-OFDM Module B NR Band n261 : BE (dBm) 1 RB | | |
|-------------|---------|-------|--|--------|--------|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≤ -5 | -13.83 | -13.46 | -13.95 |
| | >10%OB | ≤ -13 | -19.84 | -19.95 | -20.71 |
| HighCH | 0~10%OB | ≤ -5 | -12.91 | -15.79 | -19.30 |
| | >10%OB | ≤ -13 | -20.50 | -22.46 | -24.25 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module B NR Band n261 : BE (dBm) 1 RB | | |
|-------------|---------|-------|---|--|--|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | | |
| Low CH | 0~10%OB | ≤ -5 | -13.60 | | |
| | >10%OB | ≤ -13 | -20.36 | | |
| High CH | 0~10%OB | ≤ -5 | -17.82 | | |
| | >10%OB | ≤ -13 | -22.12 | | |
| Result | | | Compliance | | |

| Mode | | | DFT-s-OFDM Module B NR Band n261 : BE (dBm) Full RB | | |
|-------------|---------|-------|---|--------|--------|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | 16QAM | 64QAM |
| Low CH | 0~10%OB | ≤ -5 | -20.15 | -20.06 | -12.70 |
| | >10%OB | ≤ -13 | -19.63 | -19.45 | -18.07 |
| HighCH | 0~10%OB | ≤ -5 | -19.68 | -11.32 | -14.85 |
| | >10%OB | ≤ -13 | -19.86 | -15.47 | -23.05 |
| Result | | | Compliance | | |

| Mode | | | CP-OFDM Module B NR Band n261 : BE (dBm) Full RB | | |
|-------------|---------|-------|--|--|--|
| BW | | | 50MHz | | |
| Limit (dBm) | | | QPSK | | |
| Low CH | 0~10%OB | ≤ -5 | -19.03 | | |
| | >10%OB | ≤ -13 | -17.94 | | |
| High CH | 0~10%OB | ≤ -5 | -18.48 | | |
| | >10%OB | ≤ -13 | -17.99 | | |
| Result | | | Compliance | | |

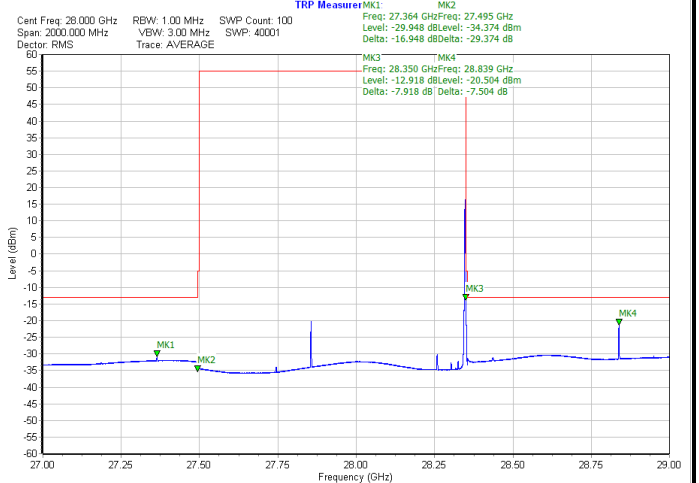
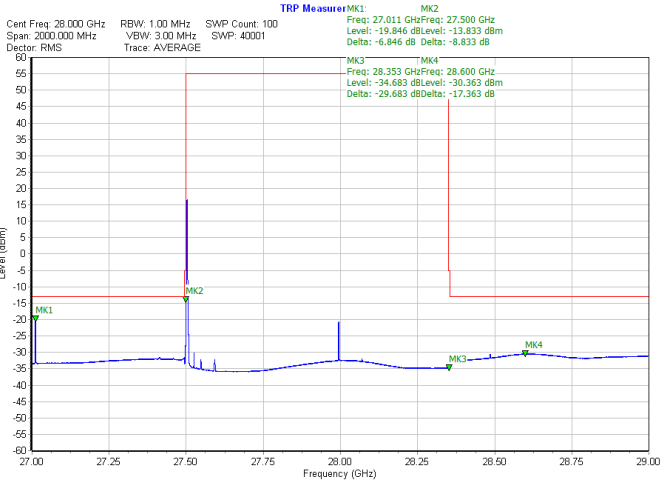


DFT-s-OFDM Module B

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

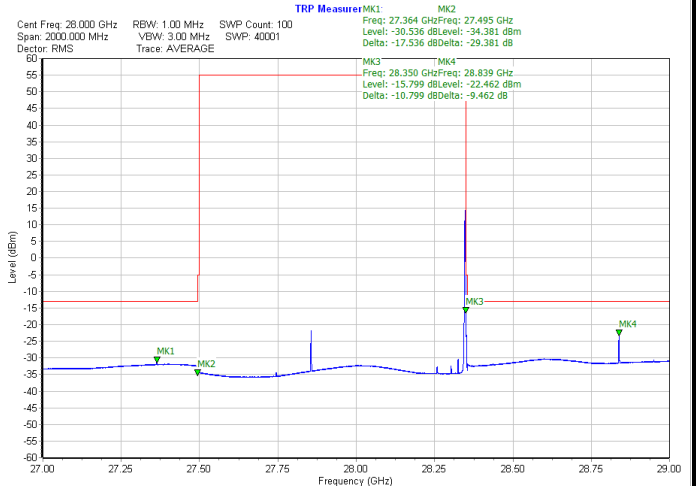
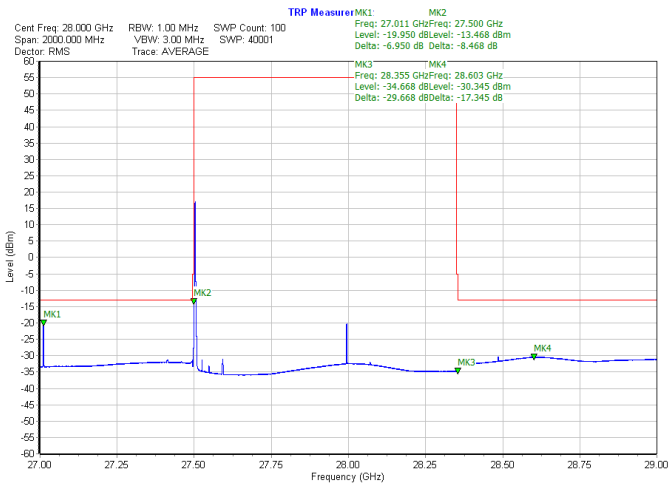
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



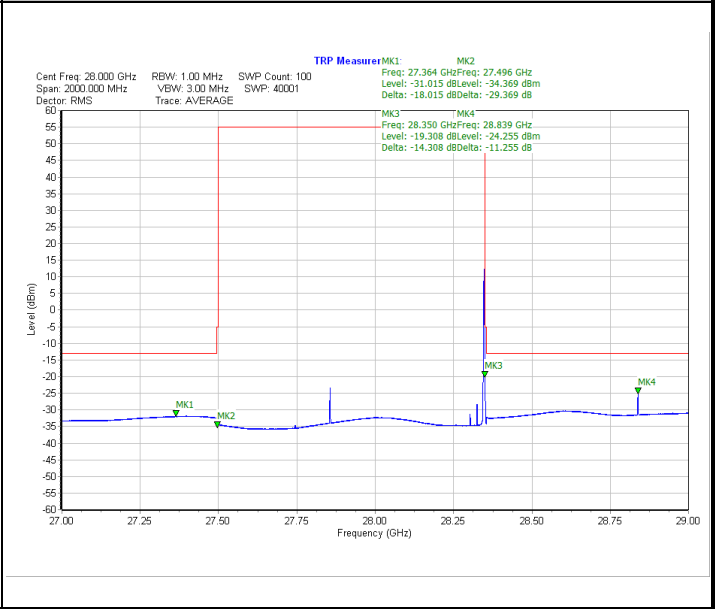
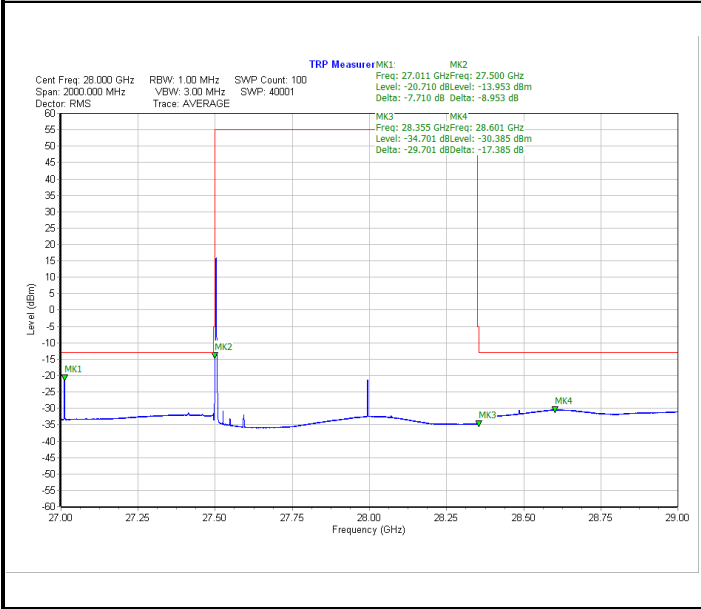


DFT-s-OFDM Module B

NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

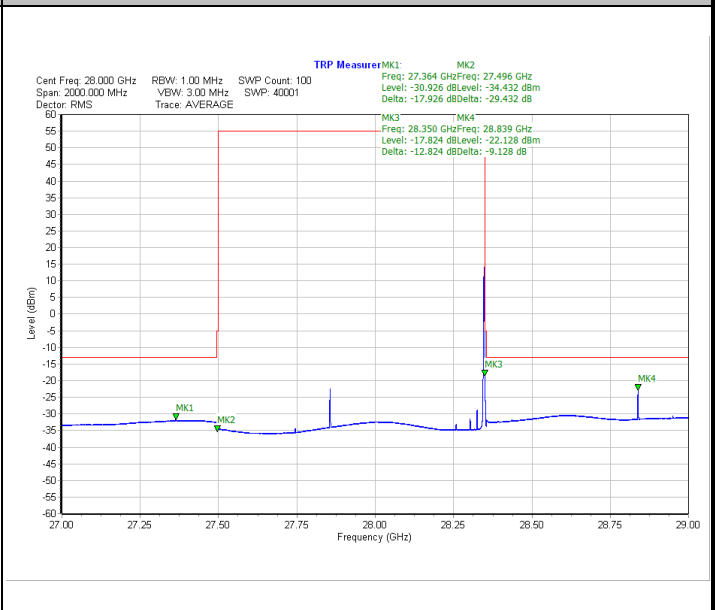
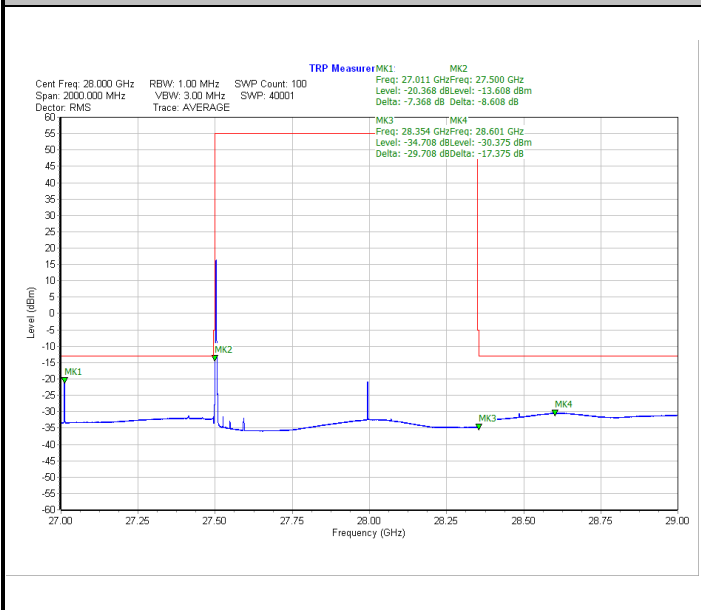


CP-OFDM Module B

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



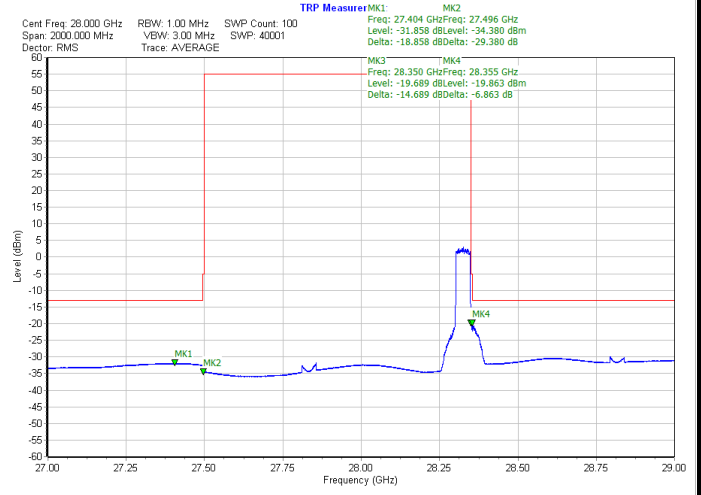
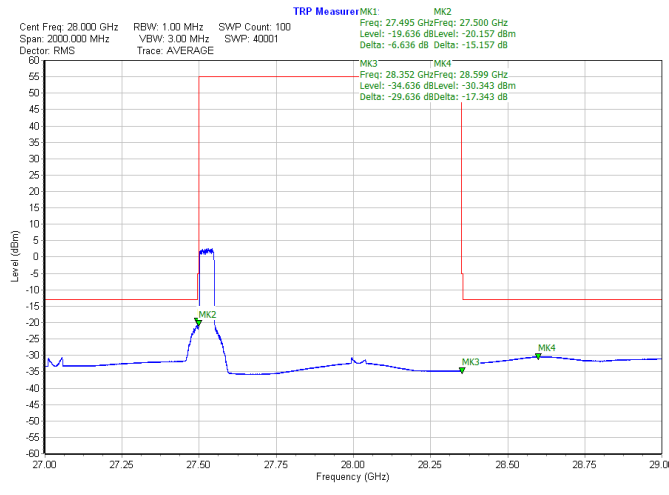


DFT-s-OFDM Module B

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

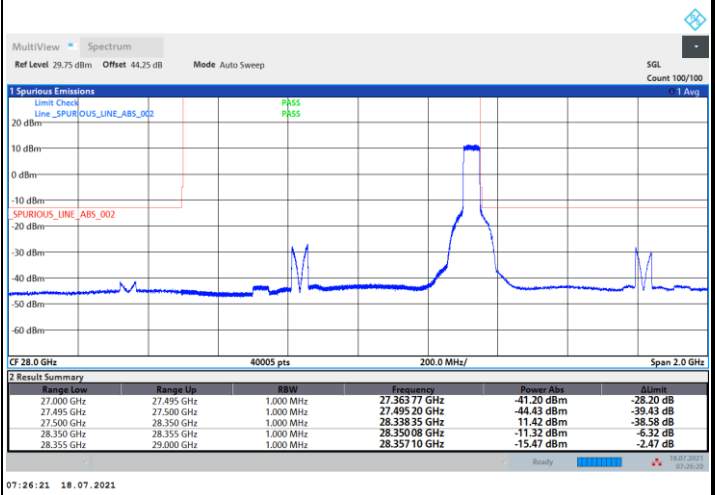
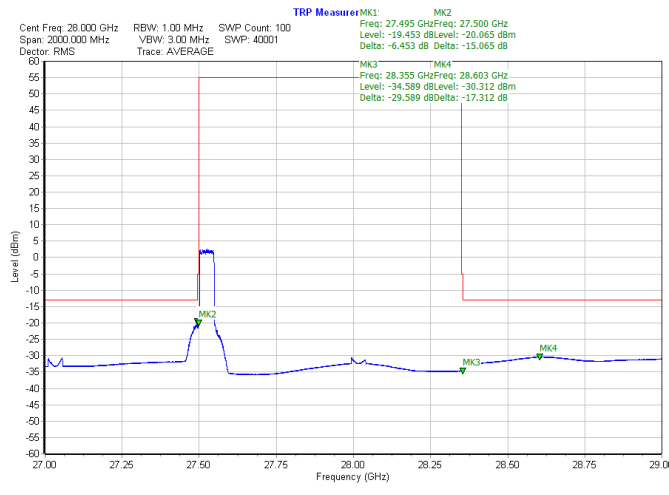
Highest Band Edge / Full RB



NR Band n261 / 50MHz / 16QAM

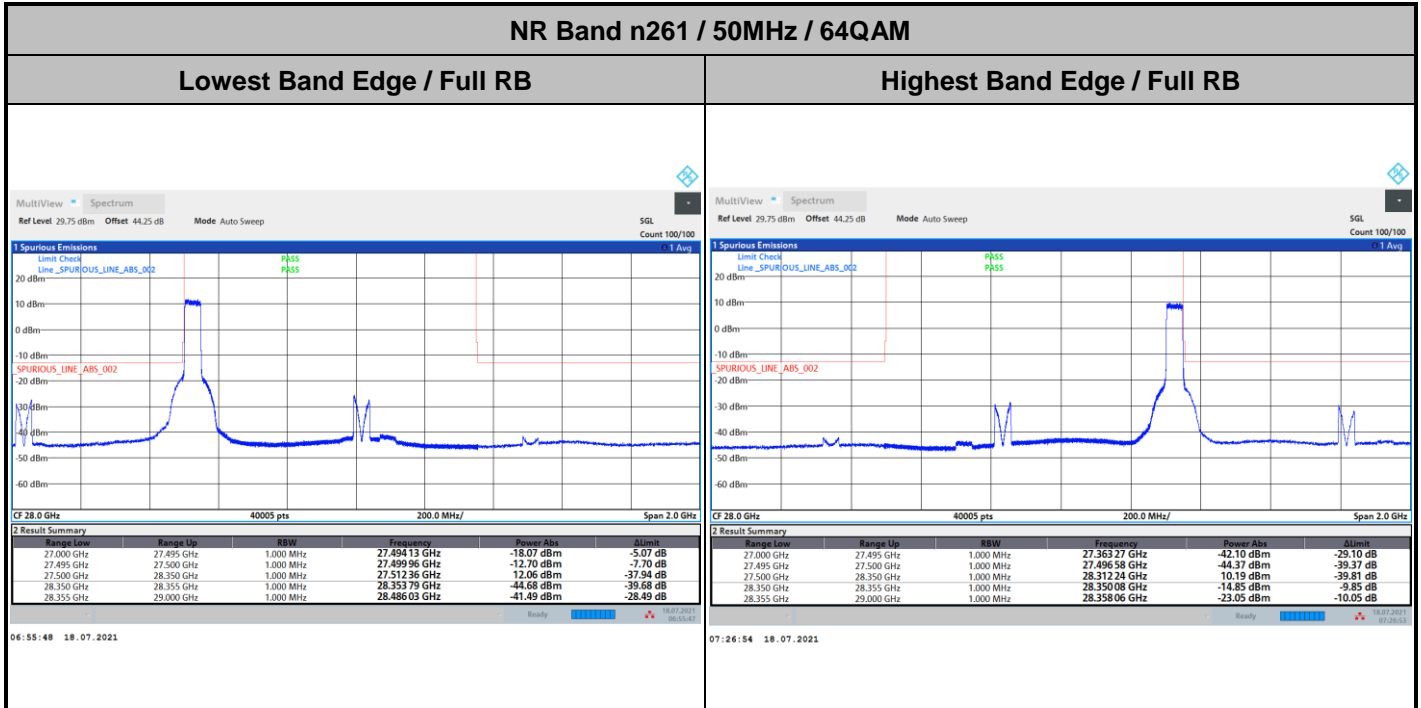
Lowest Band Edge / Full RB

Highest Band Edge / Full RB

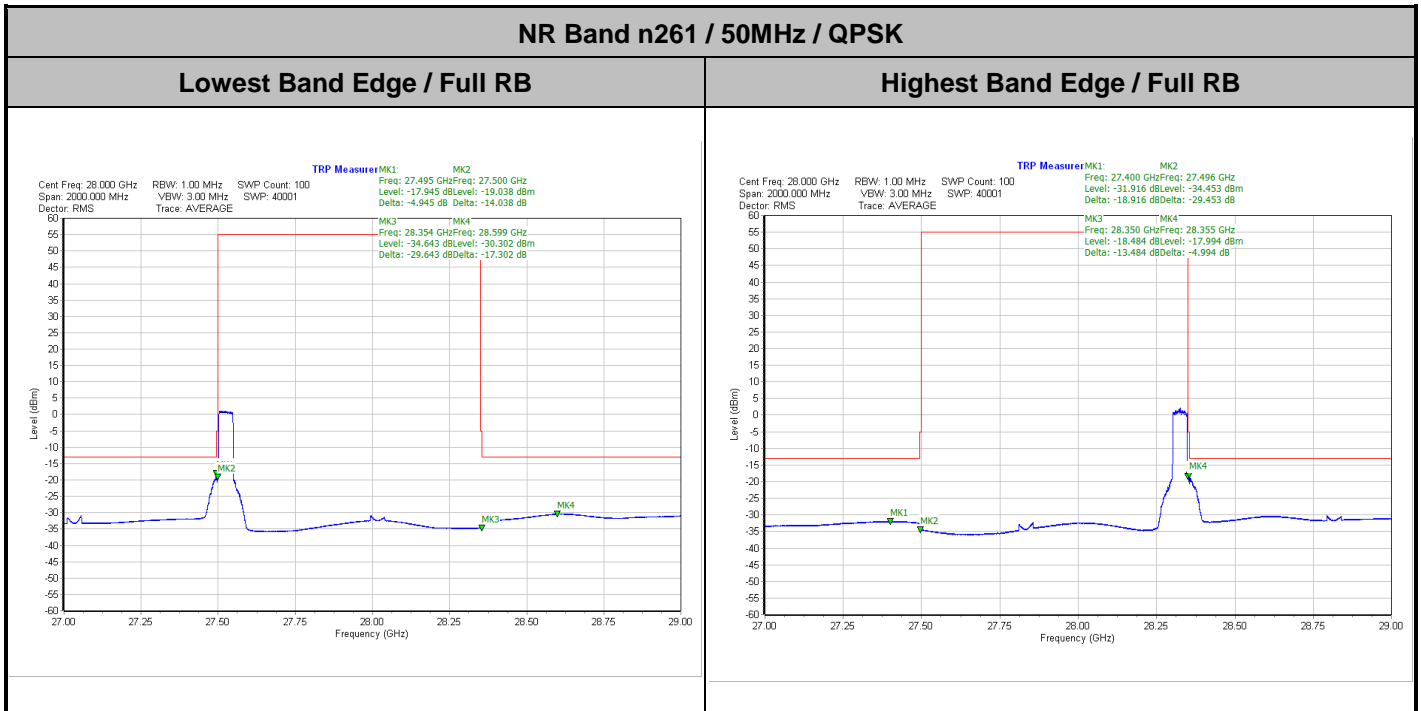




DFT-s-OFDM Module B



CP-OFDM Module B



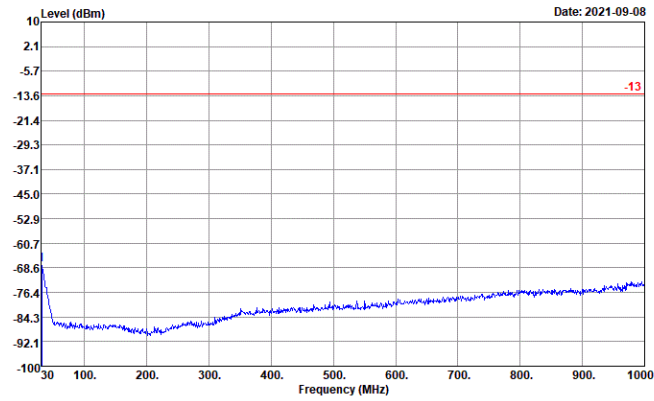


Spurious Emission

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

NR Band n261 (30MHz-1GHz)

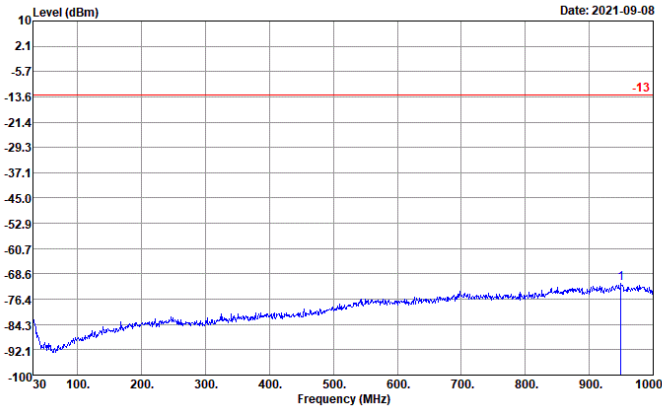
Horizontal



Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 HORIZONTAL

| : n261 | | | | | | | | | | | |
|--------|-------|--------|--------|--------|--------|-------|------|-------|-----|-----|------|
| 1 | 30.97 | -67.53 | -54.53 | -13.00 | -78.41 | 46.61 | 0.00 | 35.73 | --- | --- | Peak |

Vertical



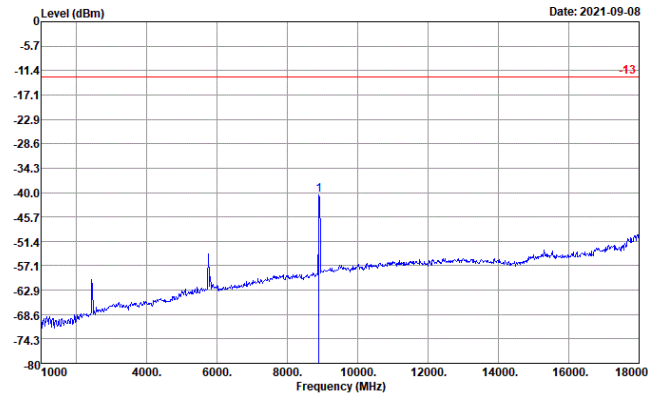
Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 VERTICAL

| : n261 | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|-------|------|-------|-----|-----|------|
| 1 | 949.56 | -71.52 | -58.52 | -13.00 | -81.31 | 42.96 | 0.00 | 33.17 | --- | --- | Peak |



NR Band n261 (1GHz-18GHz)

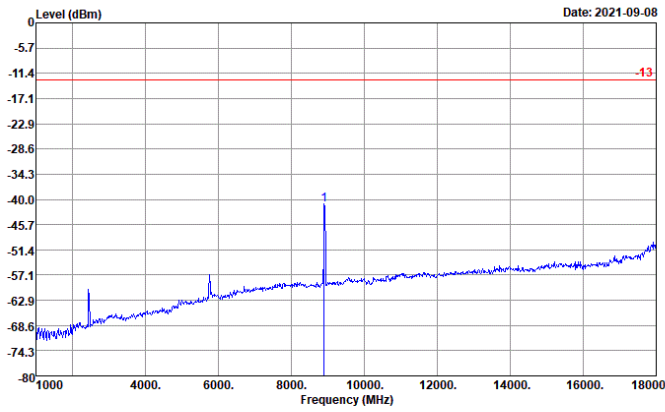
Horizontal



Site : 03CH19-HY
 Condition : -13 ERP EIRP_20210305 HORIZONTAL

| : n261 | | | | | | | | | | | |
|--------|---------|--------|--------|--------|--------|-------|--------|-------|-------|--------|------|
| Freq | Level | Over | Limit | Read | LISN | Cable | Preamp | A/Pos | T/Pos | Remark | |
| MHz | dBm | dB | dBm | dBm | dB | dB | dB | cm | deg | | |
| 1 | 8905.00 | -40.55 | -27.55 | -13.00 | -66.19 | 66.46 | 0.00 | 40.82 | --- | --- | Peak |

Vertical



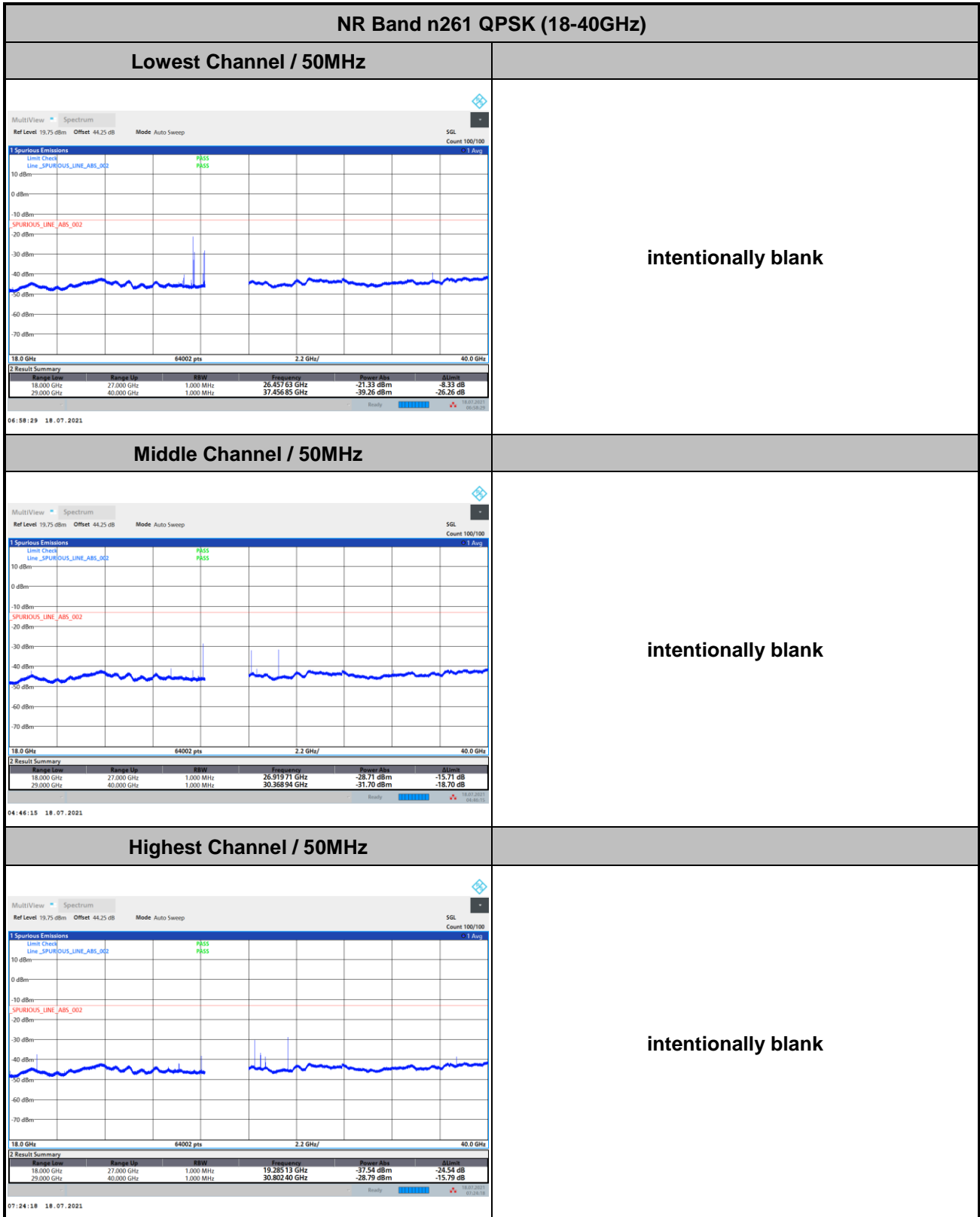
Site : 03CH19-HY
 Condition : -13 ERP EIRP_20210305 VERTICAL

| : n261 | | | | | | | | | | | |
|--------|---------|--------|--------|--------|--------|-------|--------|-------|-------|--------|------|
| Freq | Level | Over | Limit | Read | LISN | Cable | Preamp | A/Pos | T/Pos | Remark | |
| MHz | dBm | dB | dBm | dBm | dB | dB | dB | cm | deg | | |
| 1 | 8905.00 | -41.21 | -28.21 | -13.00 | -66.31 | 65.92 | 0.00 | 40.82 | --- | --- | Peak |



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

DFT-s-OFDM Module B



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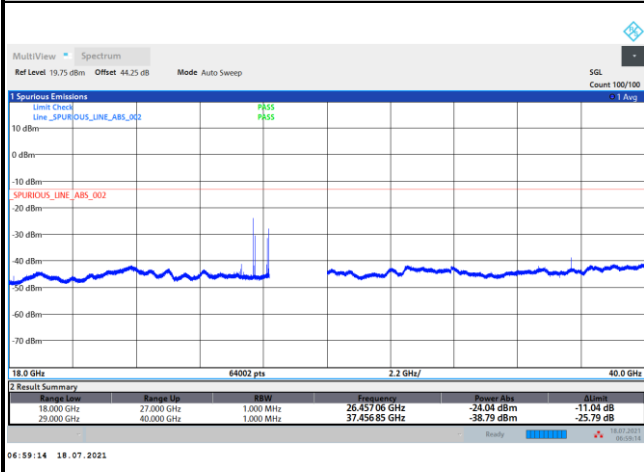
Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module B

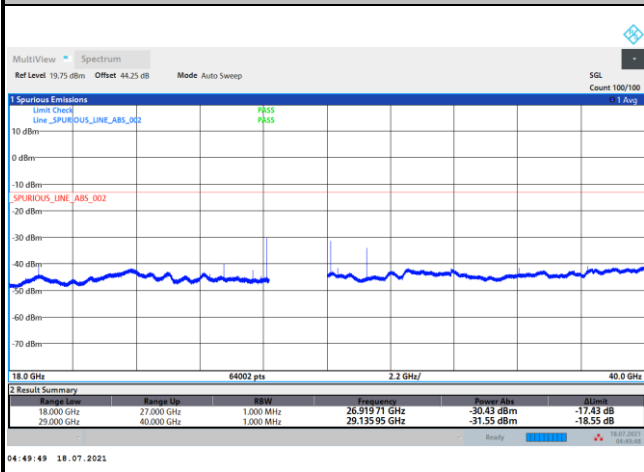
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



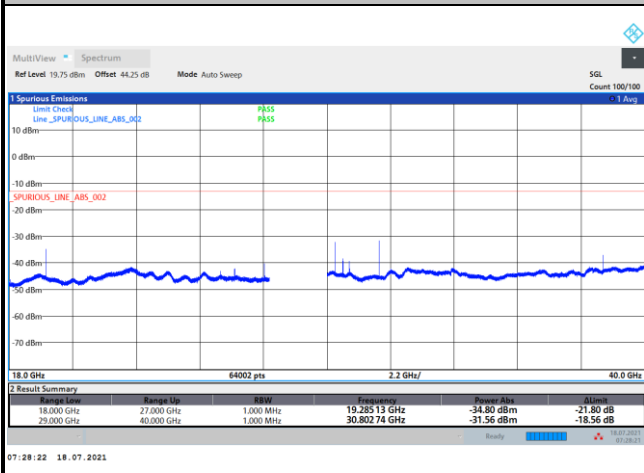
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Middle Channel / 50MHz



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Highest Channel / 50MHz

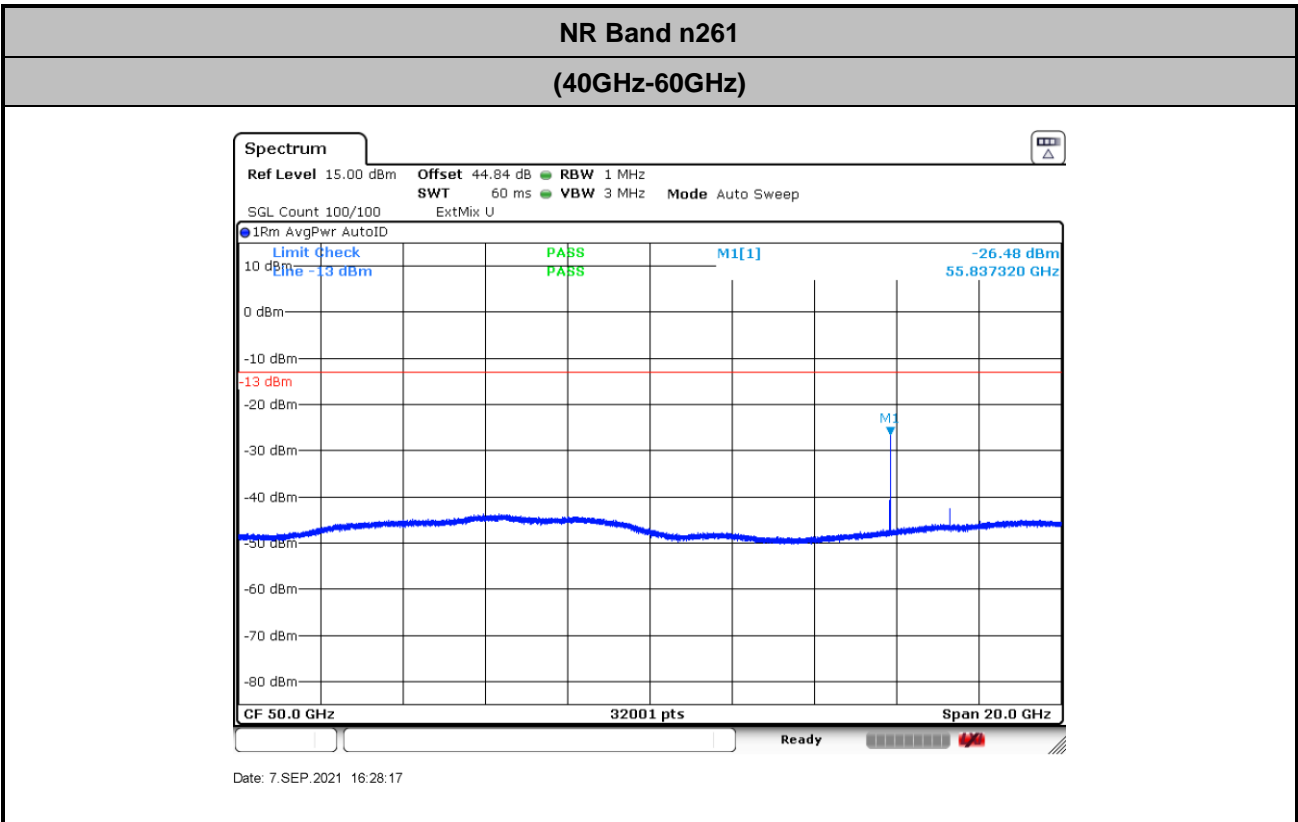


intentionally blank

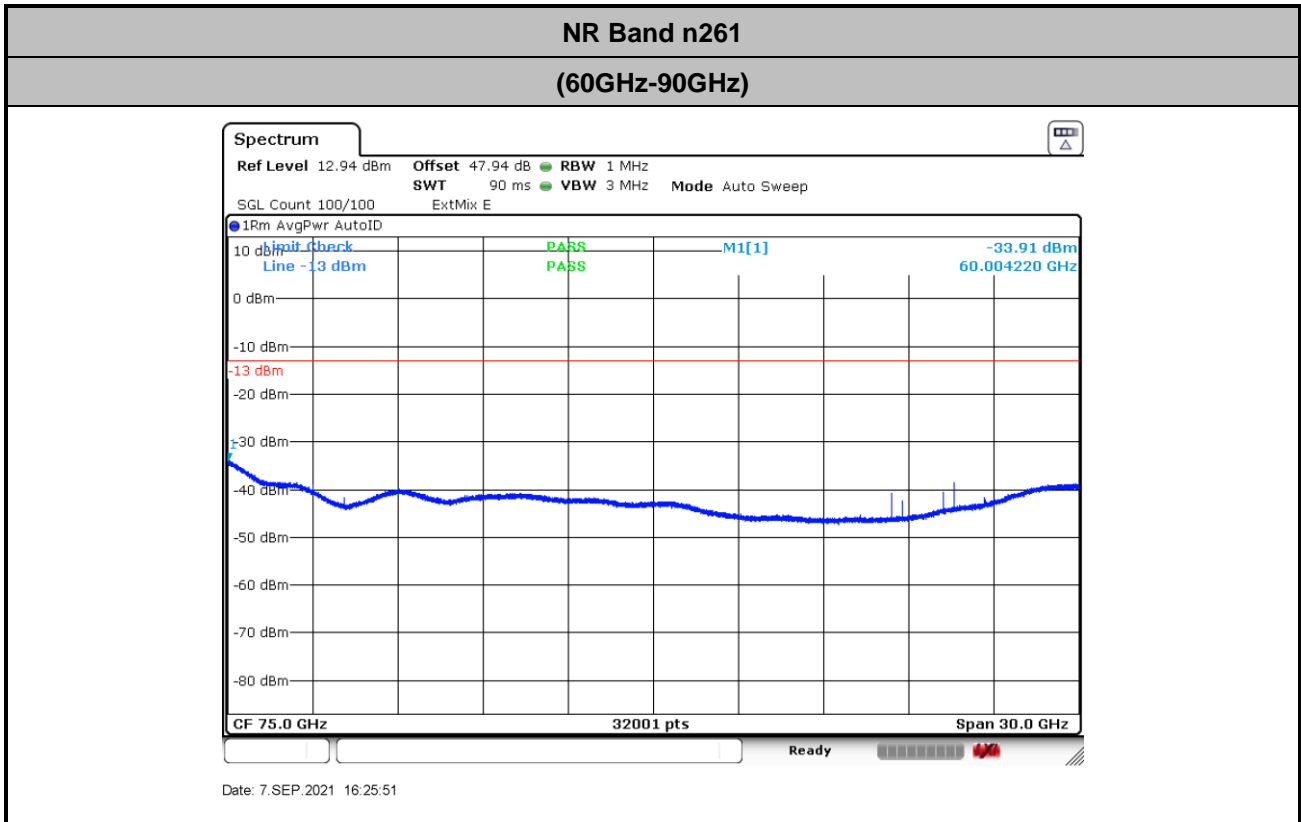
Remark: In band and out of band frequencies that has reported in previous results are omitted.



There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.



Note: Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log(D) – 104.8
= 42.3 + 0.34 + 107 + 20log(1) – 104.8 = 44.84 (dB)

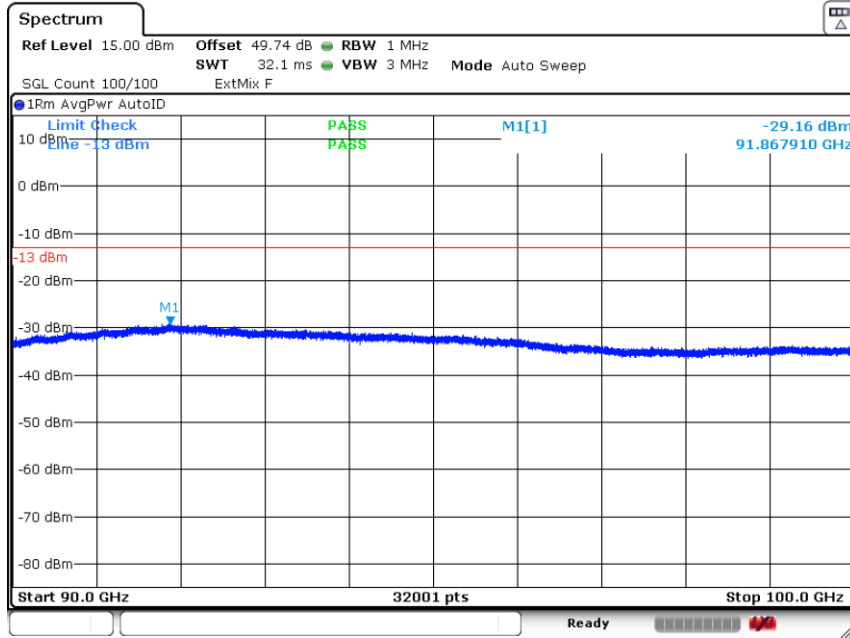


Note: Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log(D) – 104.8
= 45.4 + 0.34 + 107 + 20log(1) – 104.8 = 47.94 (dB)



NR Band n261

(90GHz-100GHz)



Date: 7 SEP. 2021 16:22:59

Note: Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log(D) – 104.8
 = 47.2 + 0.34 + 107 + 20log(1) – 104.8 = 49.74 (dB)



Frequency Stability

| Test Conditions | | NR Band n261 / Middle Channel | | | Limit |
|------------------|-------------------|-------------------------------|-----------------|-----------------|---------|
| Temperature (°C) | Voltage (Volt) | CW tone | | | Note 2. |
| | | Frequency (GHz) | Deviation (kHz) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 27.9260345 | -0.500 | 0.018 | Pass |
| 40 | Normal Voltage | 27.9260345 | -0.500 | 0.018 | |
| 30 | Normal Voltage | 27.9260345 | -0.500 | 0.018 | |
| 20(Ref.) | Normal Voltage | 27.926034 | 0.000 | 0.000 | |
| 10 | Normal Voltage | 27.9260345 | -0.500 | 0.018 | |
| 0 | Normal Voltage | 27.9260345 | -0.500 | 0.018 | |
| -10 | Normal Voltage | 27.9260345 | -0.500 | 0.018 | |
| -20 | Normal Voltage | 27.926035 | -1.000 | 0.036 | |
| -30 | Normal Voltage | 27.926035 | -1.000 | 0.036 | |
| 20 | Maximum Voltage | 27.926034 | 0.000 | 0.000 | |
| 20 | Normal Voltage | 27.926034 | 0.000 | 0.000 | |
| 20 | Battery End Point | 27.9260345 | -0.500 | 0.018 | |

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

————THE END————



Appendix B. R&S Mixer and Horn Antenna Calibration Reports