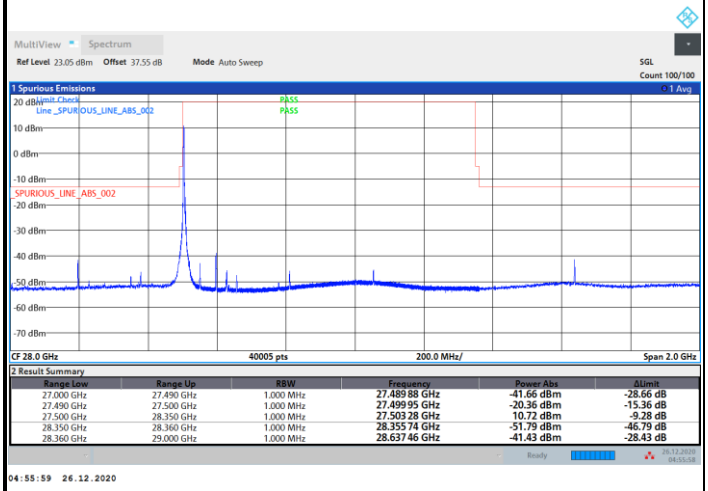
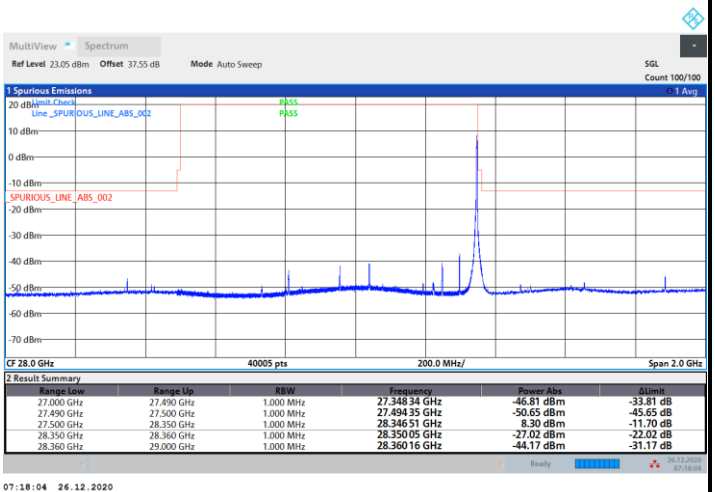
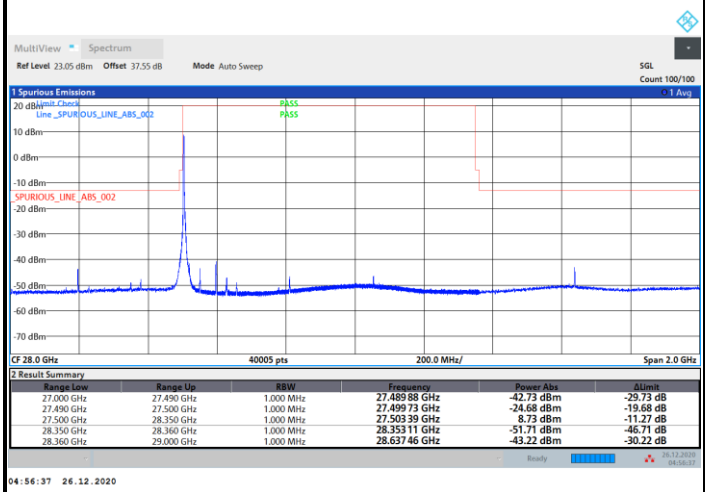
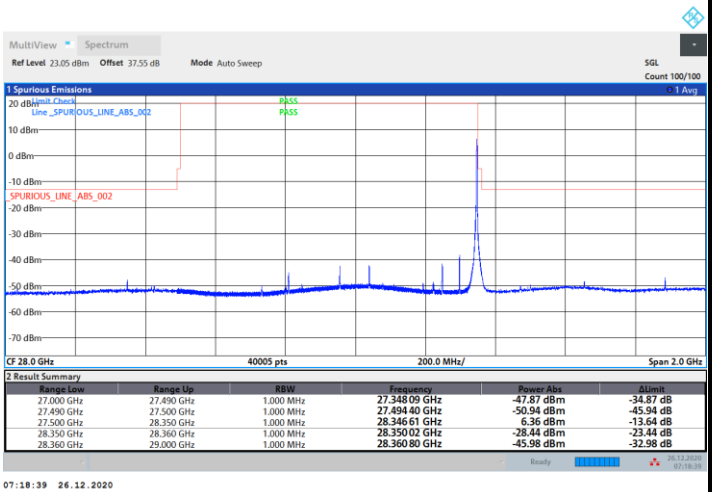
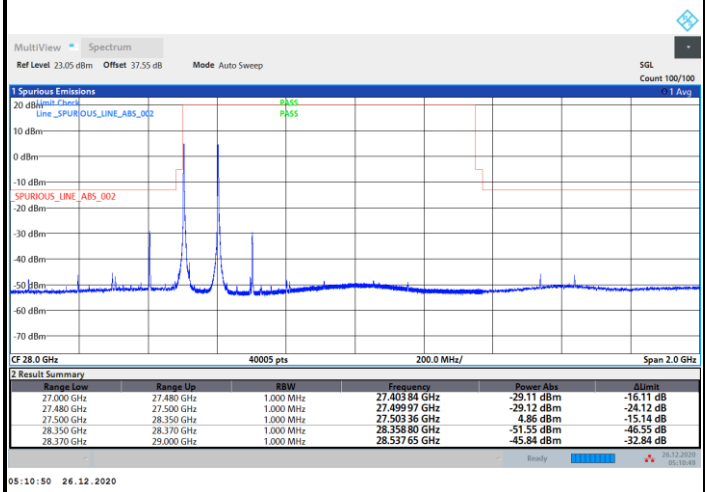
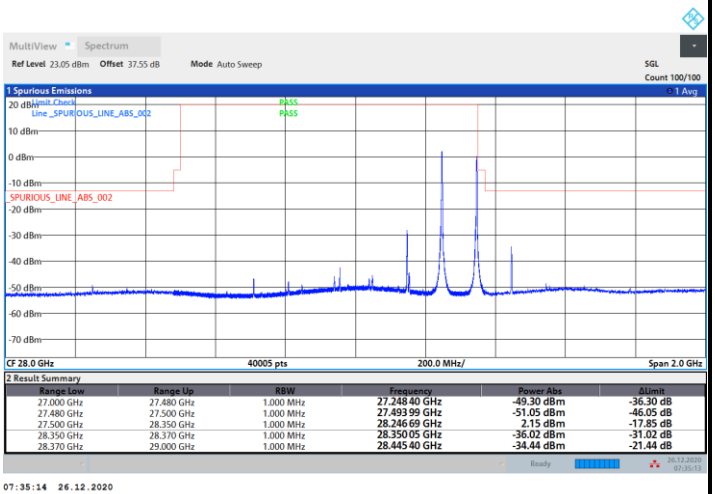
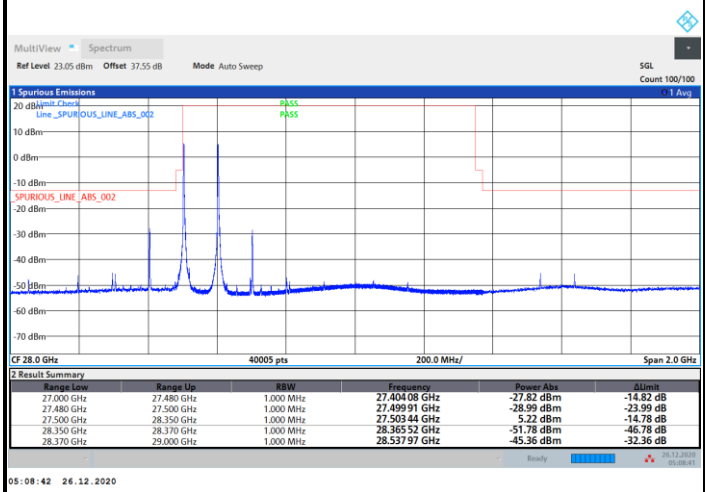
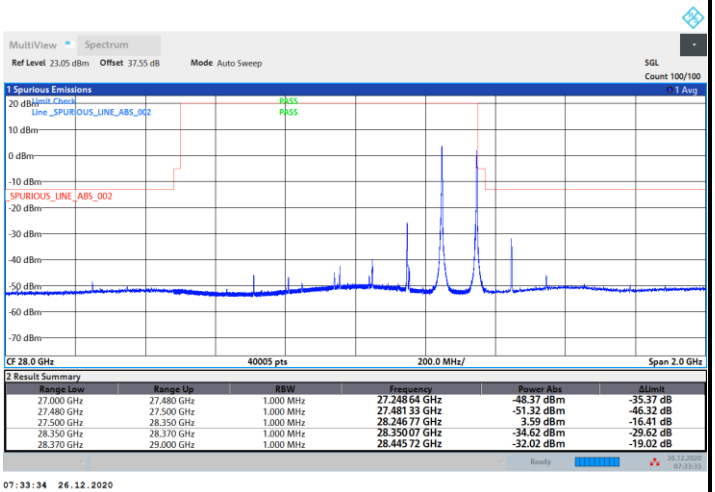
**DFT-s-OFDM Module 1**

| NR Band n261 / 100MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| 04:55:59 26.12.2020 | 07:18:04 26.12.2020 |

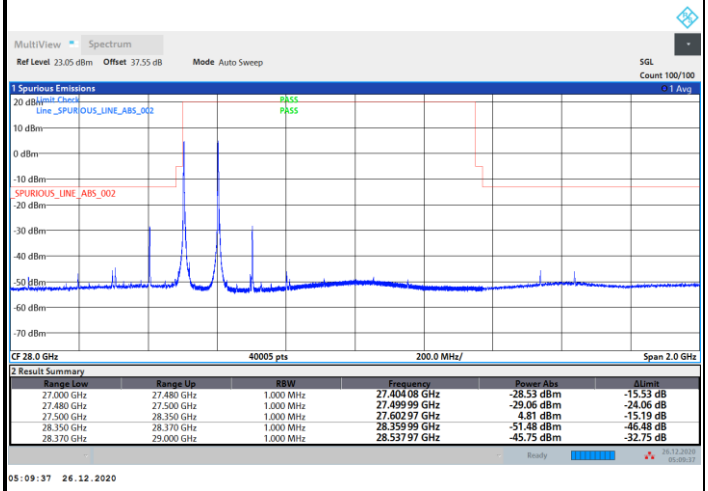
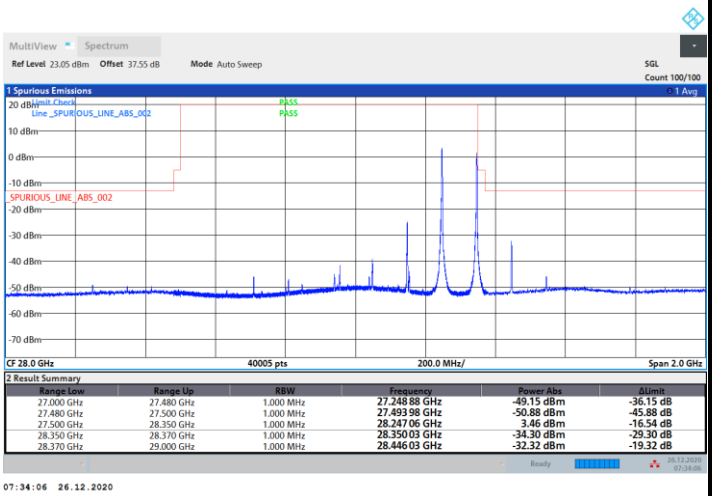
| NR Band n261 / 100MHz / 64QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| 04:56:37 26.12.2020 | 07:18:39 26.12.2020 |

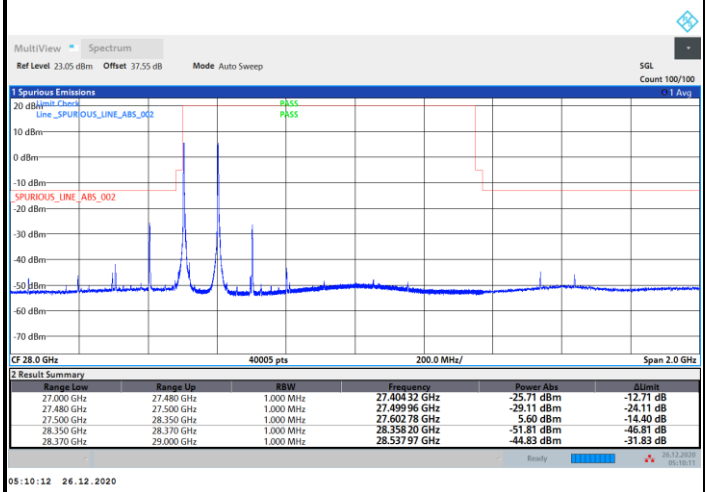
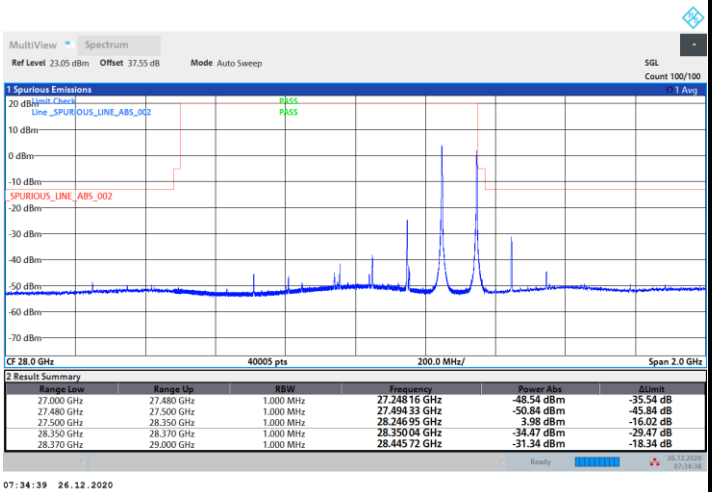
**DFT-s-OFDM Module 1**

| NR Band n261 / 200MHz / BPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| 05:10:50 26.12.2020 | 07:35:14 26.12.2020 |

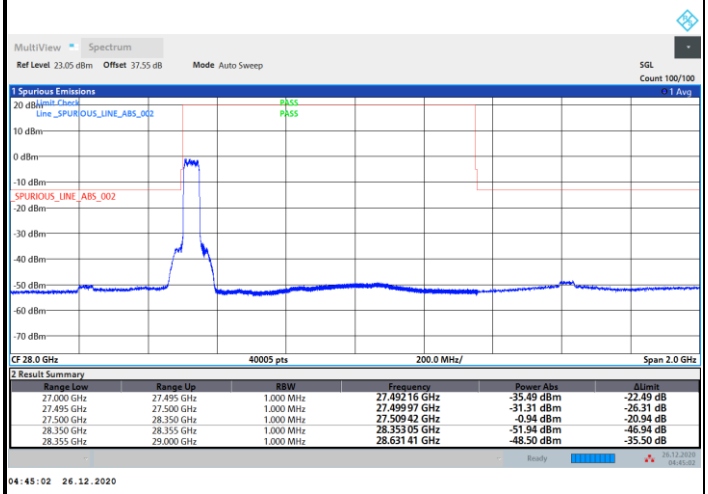
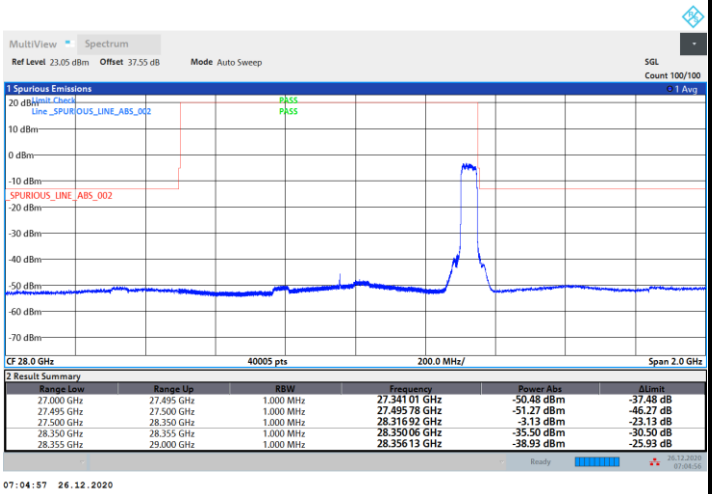
| NR Band n261 / 50MHz / QPSK | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| 05:08:42 26.12.2020 | 07:33:34 26.12.2020 |

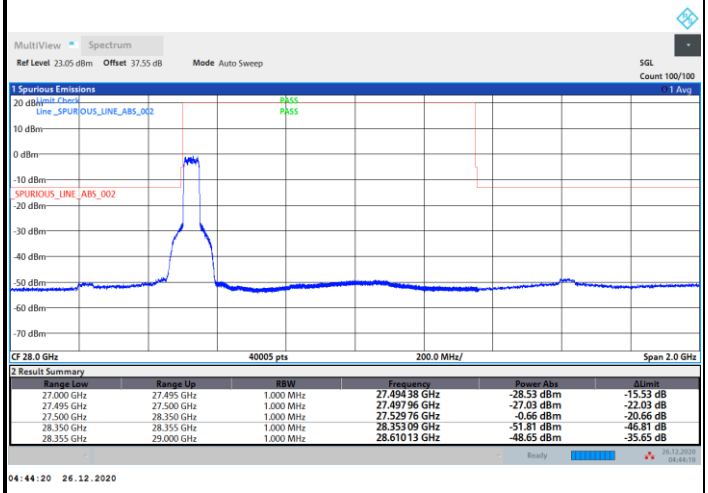
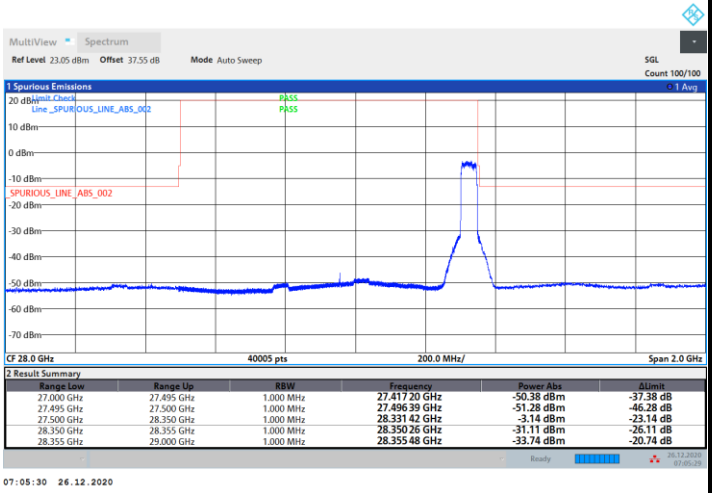
**DFT-s-OFDM Module 1**

| NR Band n261 / 200MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| 05:09:37 26.12.2020 | 07:34:06 26.12.2020 |

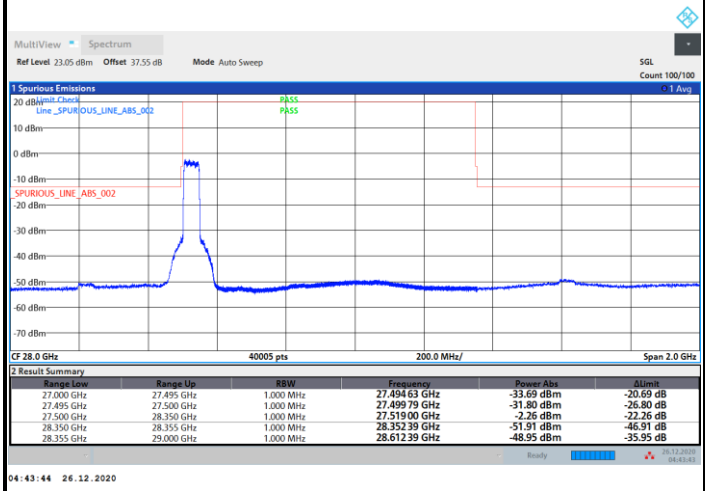
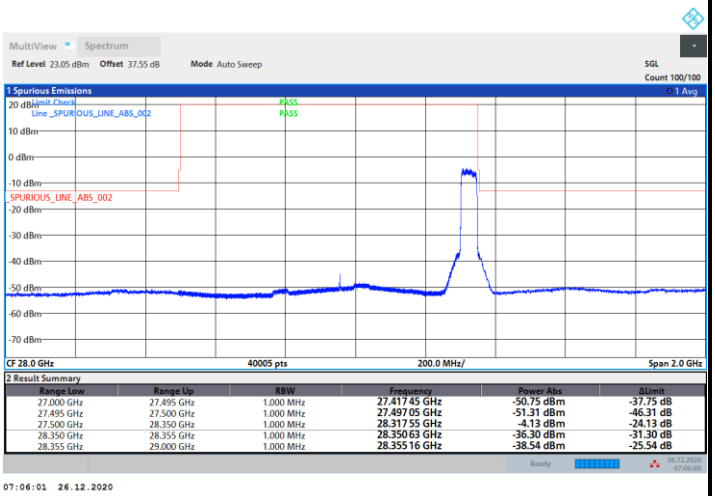
| NR Band n261 / 200MHz / 64QAM | |
|---|---|
| **Lowest Band Edge / 1 RB** | **Highest Band Edge / 1 RB** |
|  |  |
| 05:10:12 26.12.2020 | 07:34:39 26.12.2020 |

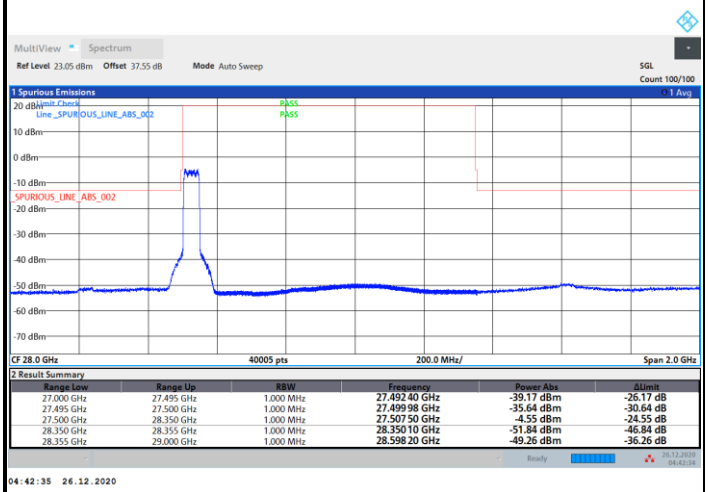
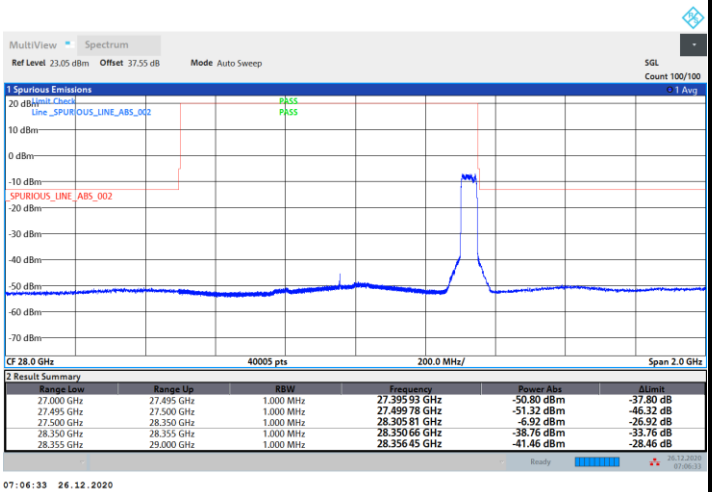
**DFT-s-OFDM Module 1**

| NR Band n261 / 50MHz / BPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |
| 04:45:02 26.12.2020 | 07:04:57 26.12.2020 |

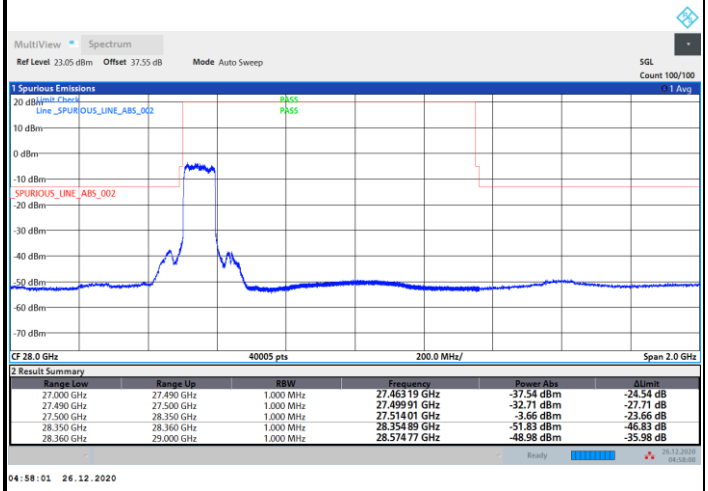
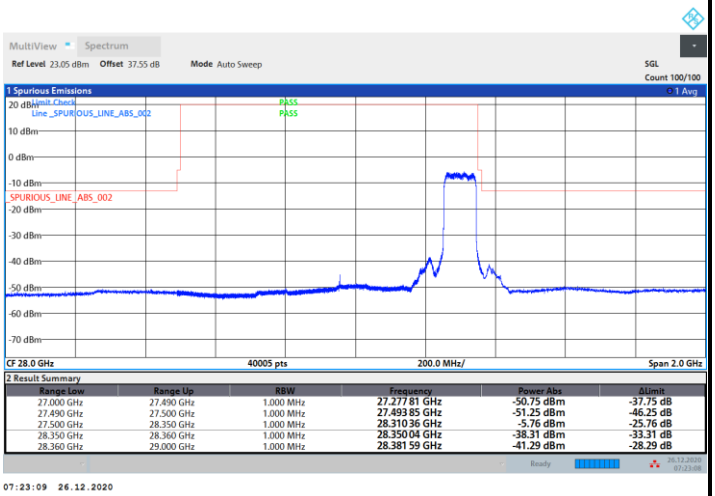
| NR Band n261 / 50MHz / QPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |
| 04:44:20 26.12.2020 | 07:05:30 26.12.2020 |

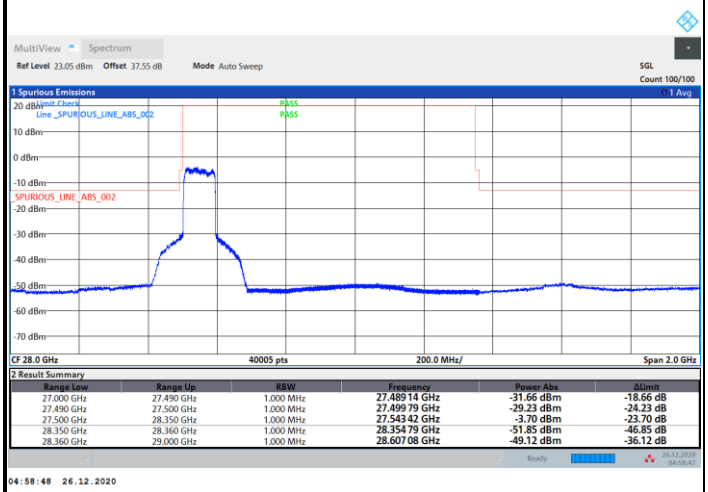
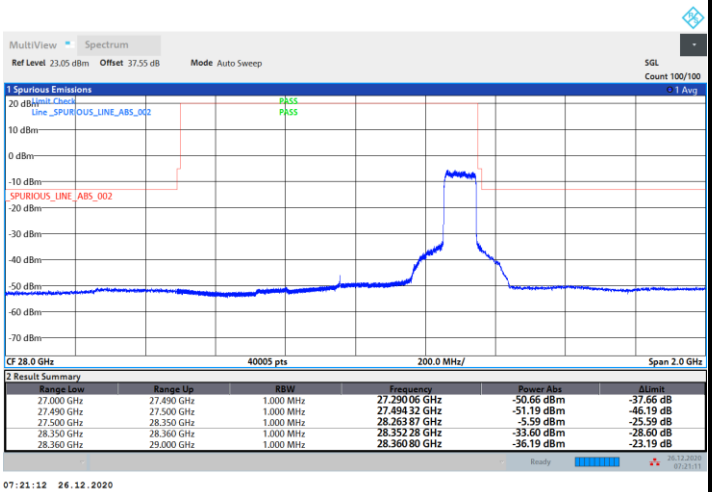
**DFT-s-OFDM Module 1**

| NR Band n261 / 50MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |
| 04:43:44 26.12.2020 | 07:06:01 26.12.2020 |

| NR Band n261 / 50MHz / 64QAM | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |
| 04:42:35 26.12.2020 | 07:06:33 26.12.2020 |

**DFT-s-OFDM Module 1**

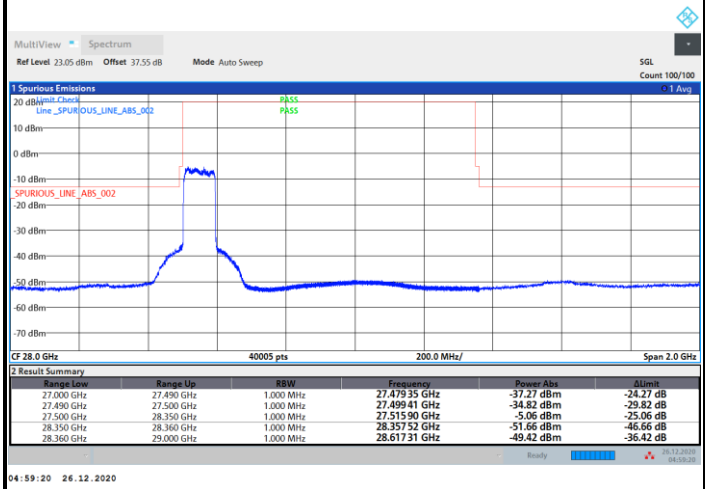
| NR Band n261 / 100MHz / BPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |
| 04:58:01 26.12.2020 | 07:23:09 26.12.2020 |

| NR Band n261 / 100MHz / QPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |
| 04:58:48 26.12.2020 | 07:21:12 26.12.2020 |

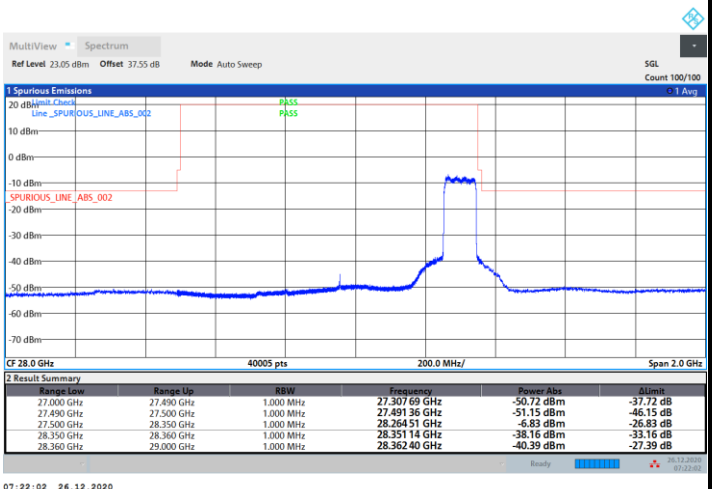
## DFT-s-OFDM Module 1

### NR Band n261 / 100MHz / 16QAM

#### Lowest Band Edge / Full RB

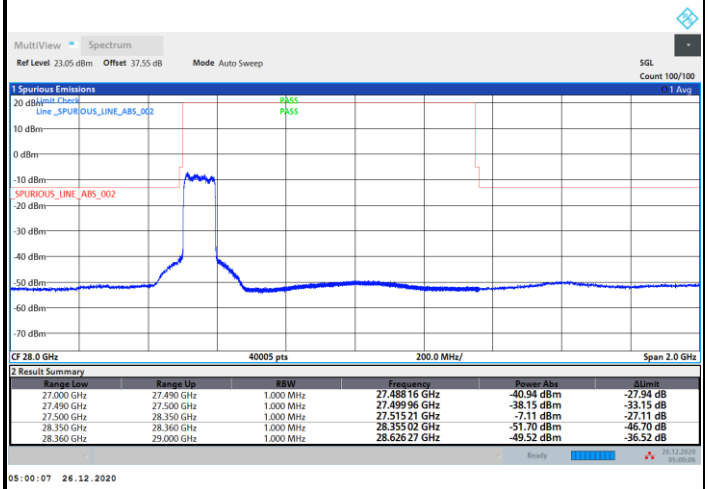



#### Highest Band Edge / Full RB

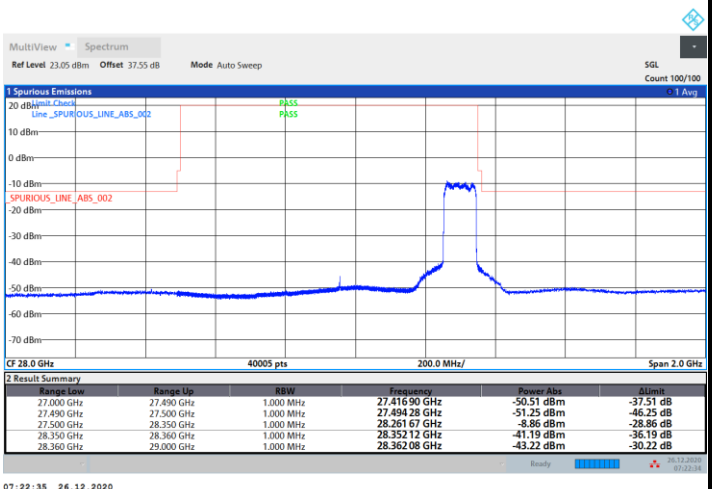



### NR Band n261 / 100MHz / 64QAM

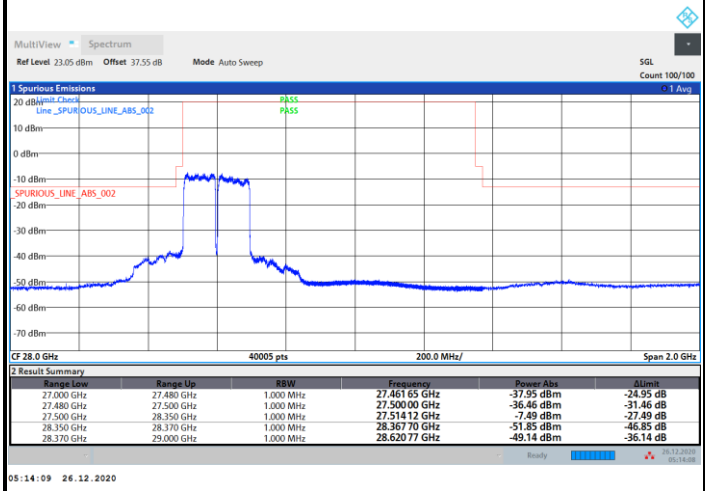
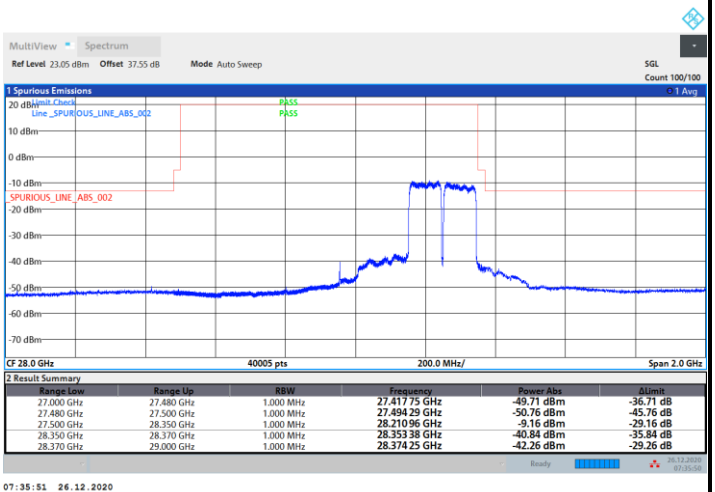
#### Lowest Band Edge / Full RB

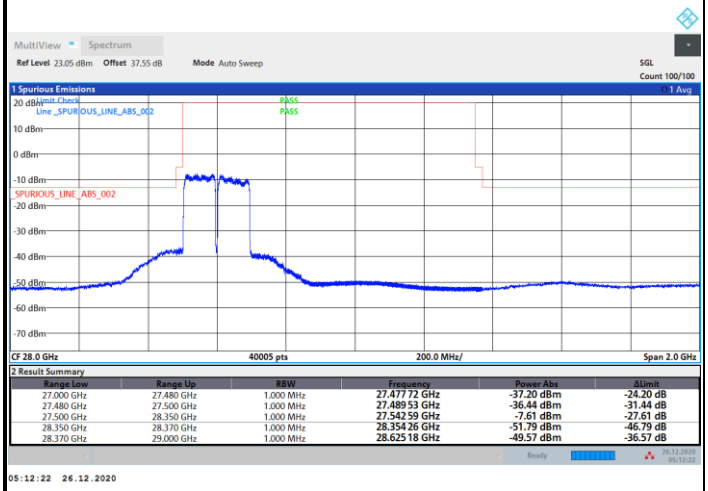
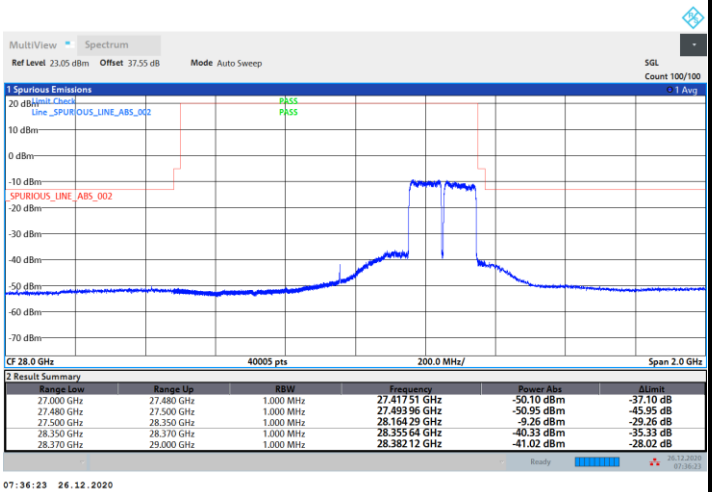



#### Highest Band Edge / Full RB

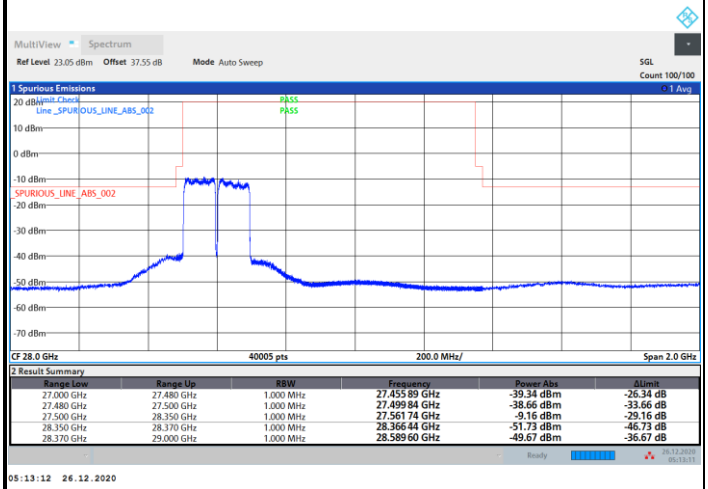
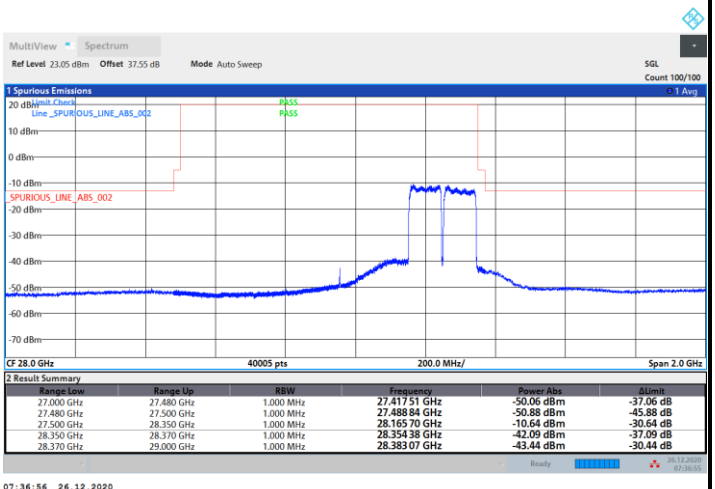


**DFT-s-OFDM Module 1**

| NR Band n261 / 200MHz / BPSK | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

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

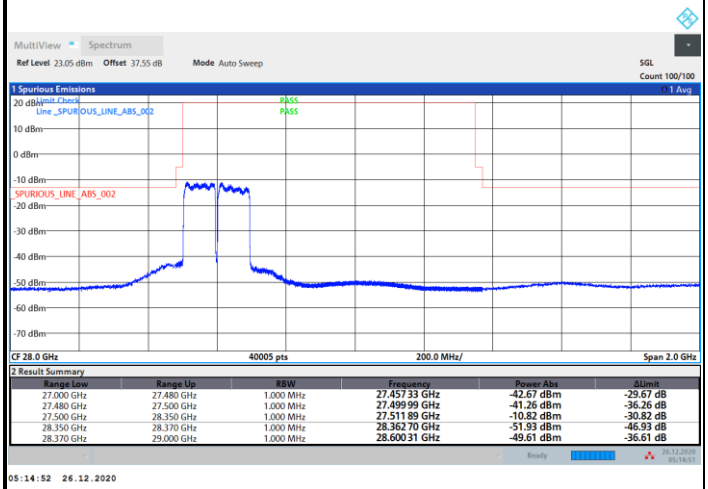
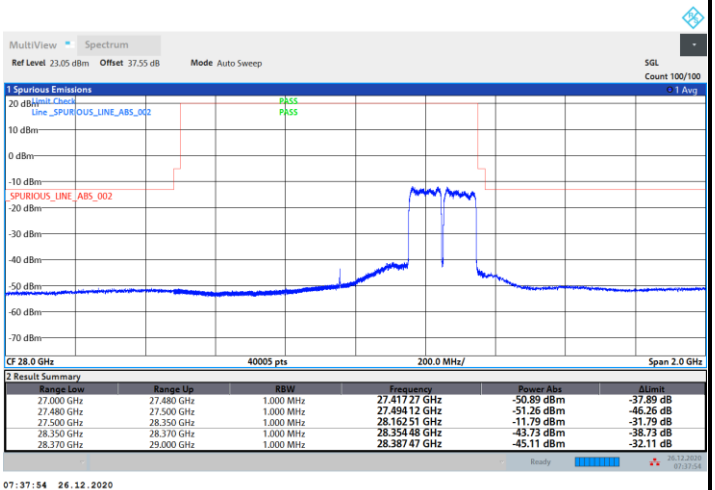
**DFT-s-OFDM Module 1**

| NR Band n261 / 200MHz / 16QAM | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |







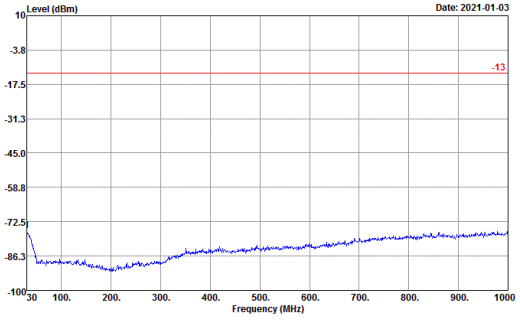
| NR Band n261 / 200MHz / 64QAM | |
|---|---|
| **Lowest Band Edge / Full RB** | **Highest Band Edge / Full RB** |
|  |  |

# Spurious Emission

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

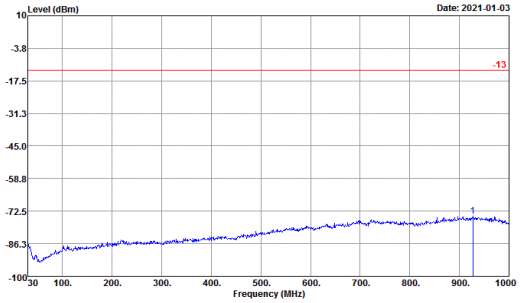
Only the noise floor is reported.

| NR Band n261 (30MHz-1GHz) | |
|---|---|
| **Horizontal** | **Vertical** |




Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : OO2623-02
: n261 Module 1

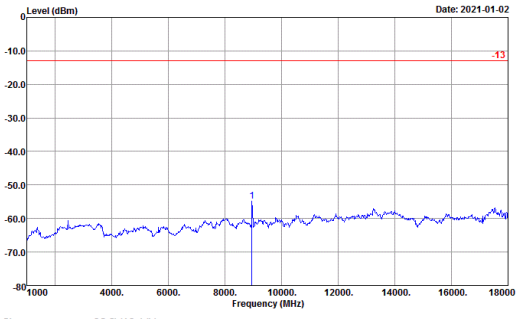
| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 30.00 | -76.08 | -63.08 | -13.00 |




Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : OO2623-02
: n261 Module 1

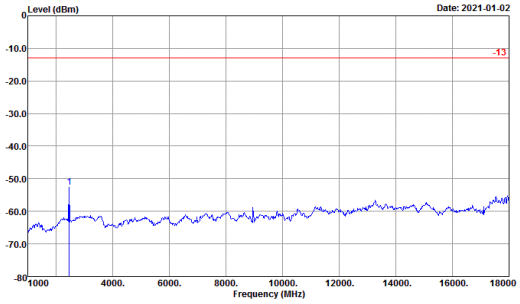
| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 927.25 | -74.62 | -61.62 | -13.00 |

| NR Band n261 (1GHz-18GHz) | |
|---|---|
| **Horizontal** | **Vertical** |




Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : OO2623-02
: n261 Module 1

| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 8956.00 | -54.87 | -41.87 | -13.00 |

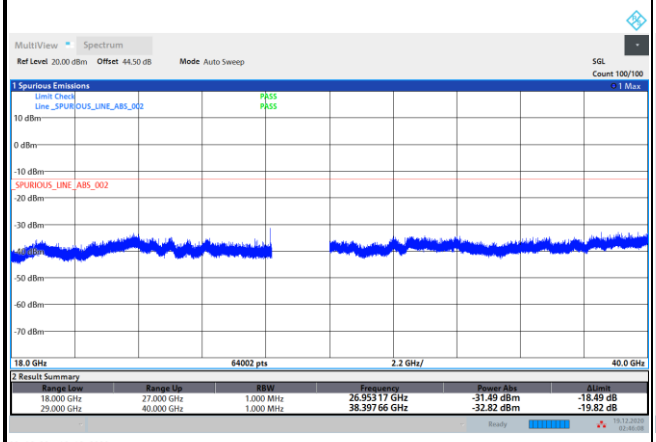
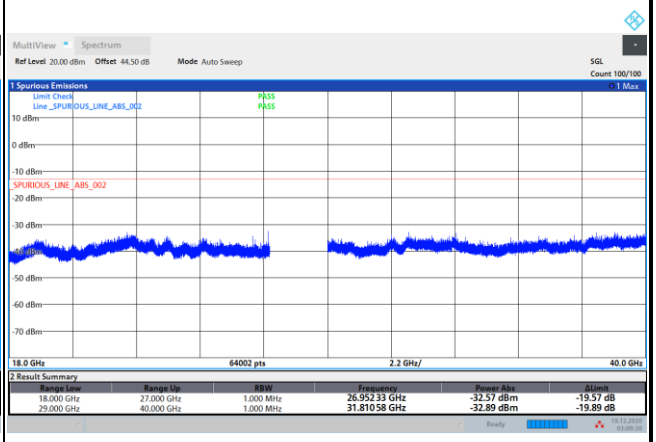
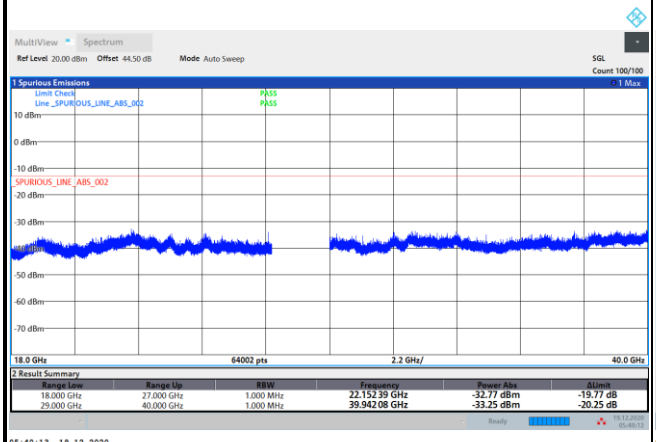
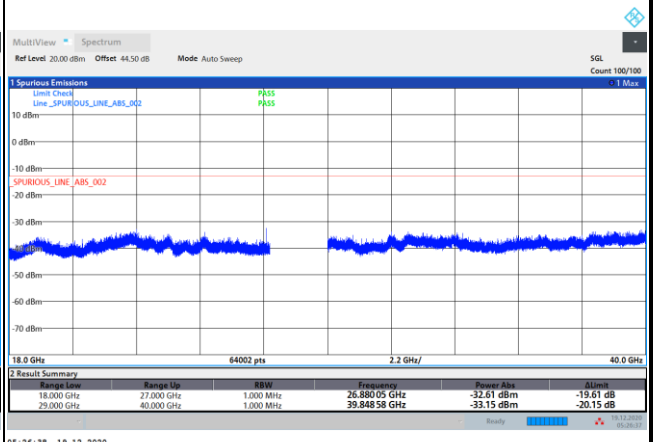
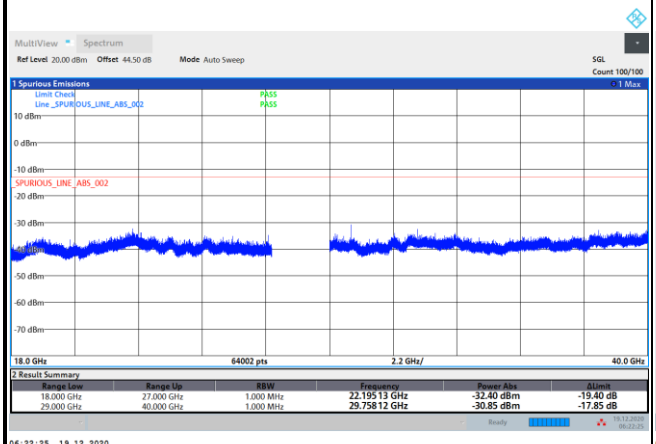
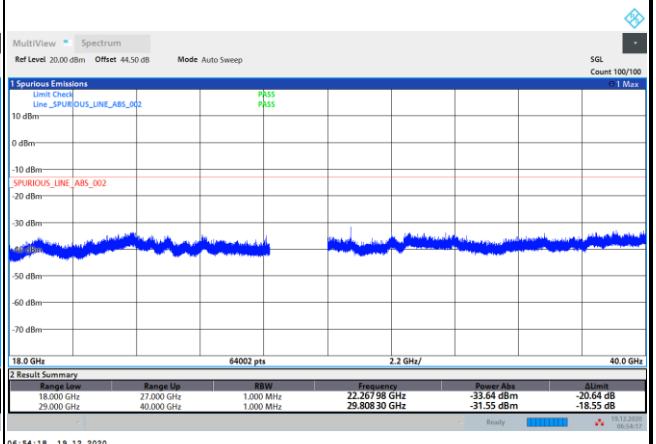



Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : OO2623-02
: n261 Module 1

| | Freq | Level | Over Limit | Limit Line |
|---|---|---|---|---|
| | MHz | dBm | dB | dBm |
| 1 | 2462.00 | -52.64 | -39.64 | -13.00 |

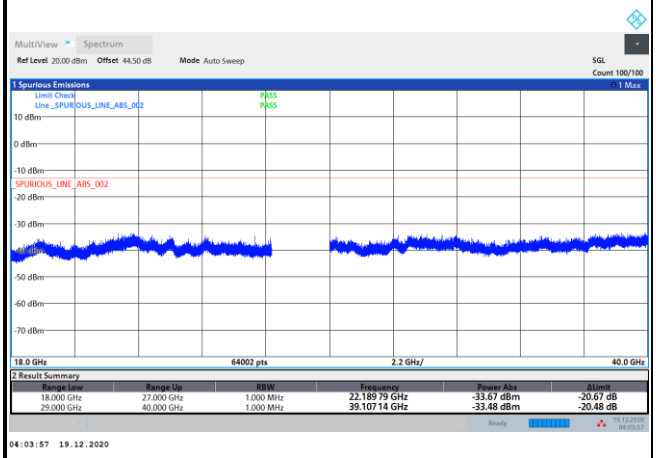
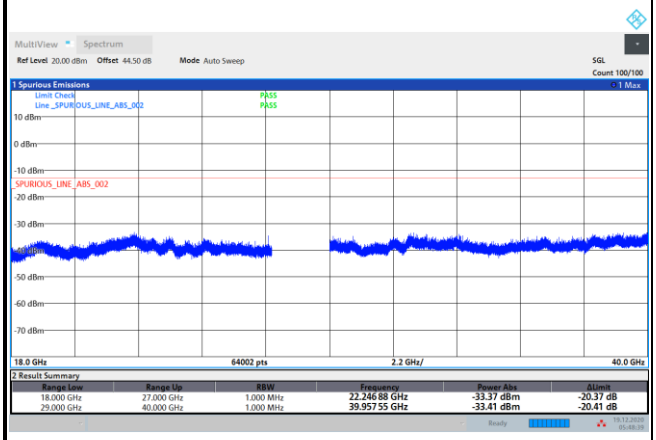
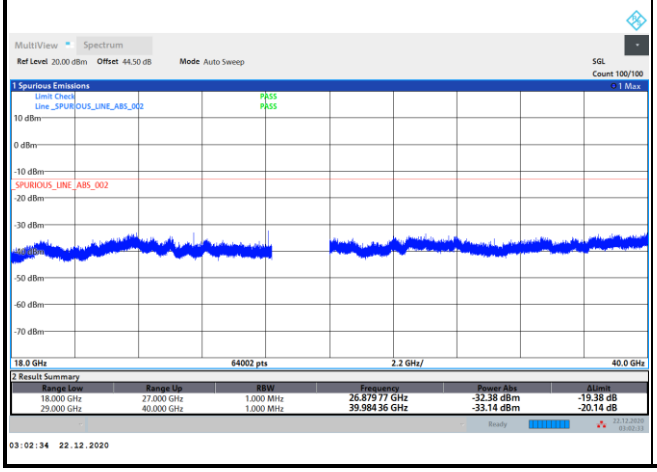
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

**AG0 DFT-s-OFDM Module 1**

| NR Band n261 BPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 50MHz** | **Lowest Channel / 100MHz** |
|  |  |
| **Middle Channel / 50MHz** | **Middle Channel / 100MHz** |
|  |  |
| **Highest Channel / 50MHz** | **Highest Channel / 100MHz** |
|  |  |

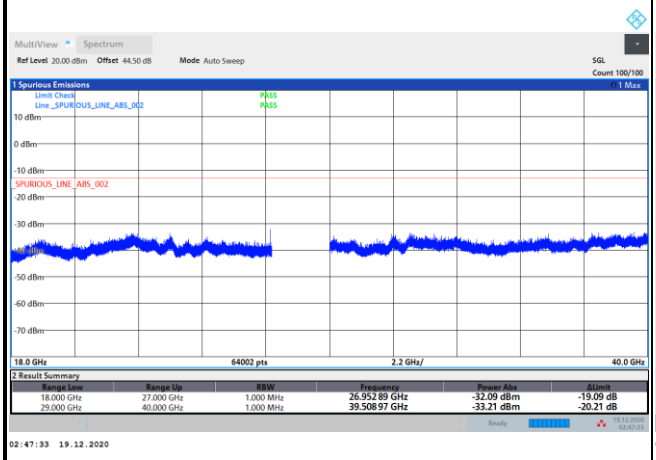
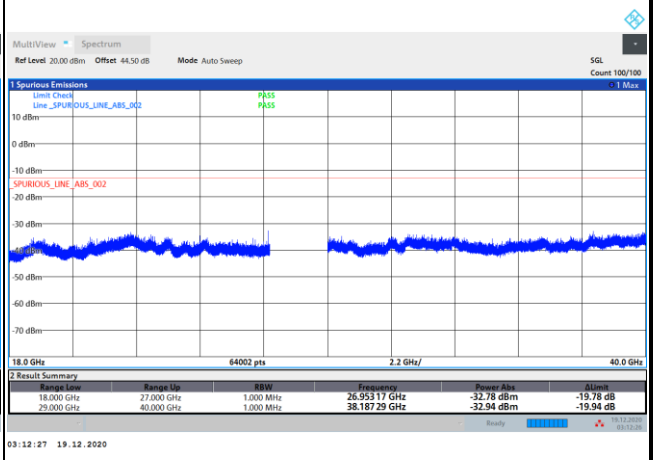
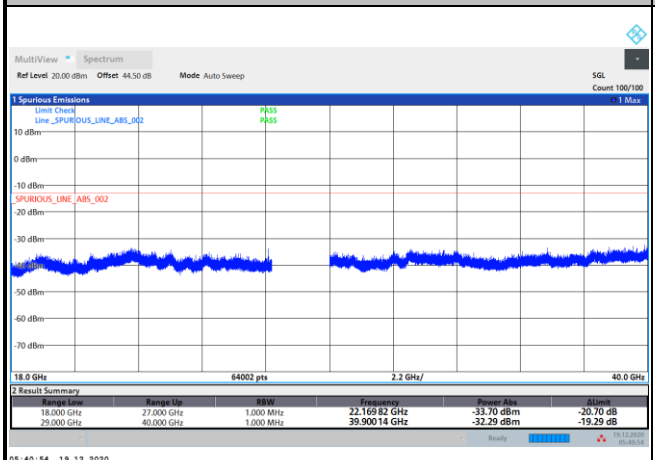
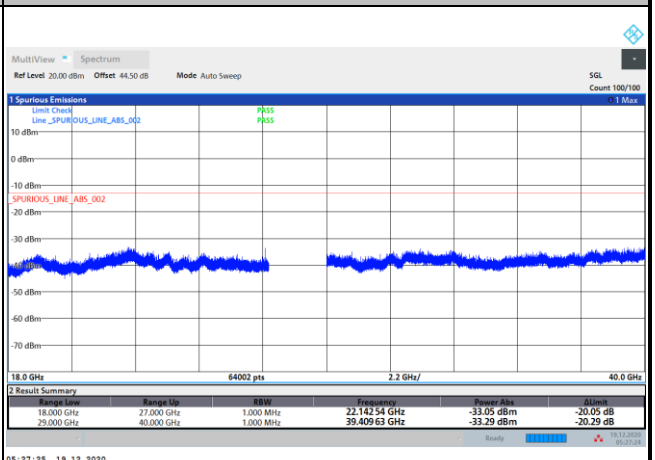
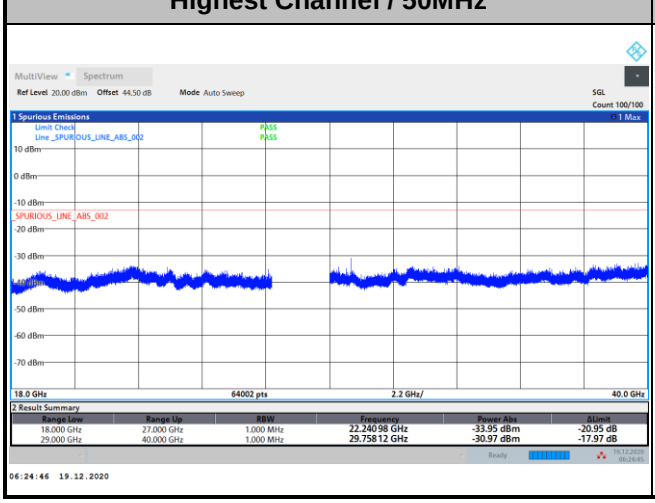
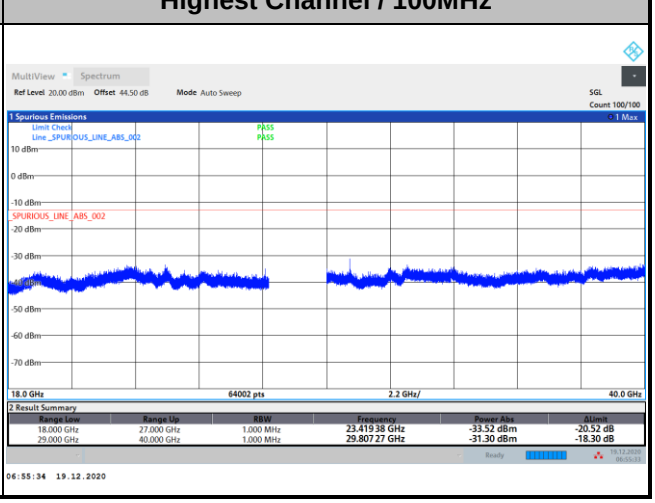
**Remark: In band and out of band frequencies are omitted.**

**AG0 DFT-s-OFDM Module 1**

| NR Band n261 BPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 200MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 200MHz** | |
|  | **intentionally blank** |

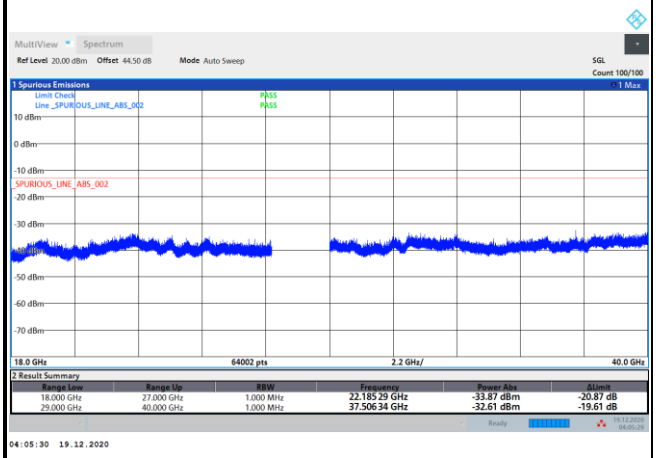
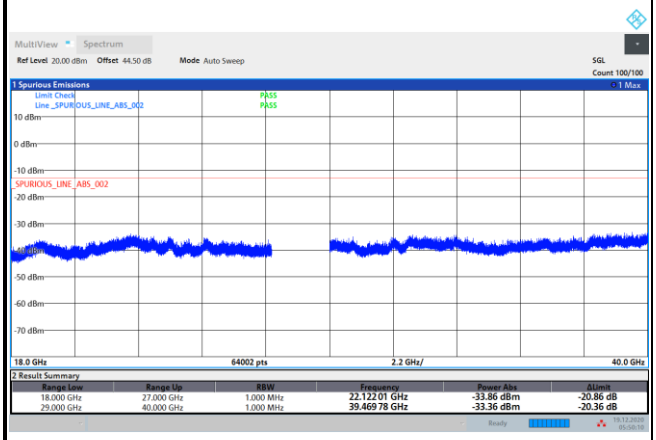
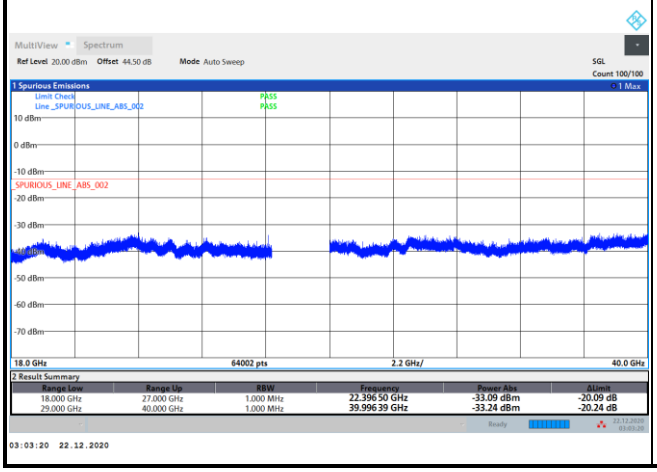
**Remark: In band and out of band frequencies are omitted.**

**AG0 DFT-s-OFDM Module 1**

| NR Band n261 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 50MHz** | **Lowest Channel / 100MHz** |
|  |  |
| **Middle Channel / 50MHz** | **Middle Channel / 100MHz** |
|  |  |
| **Highest Channel / 50MHz** | **Highest Channel / 100MHz** |
|  |  |

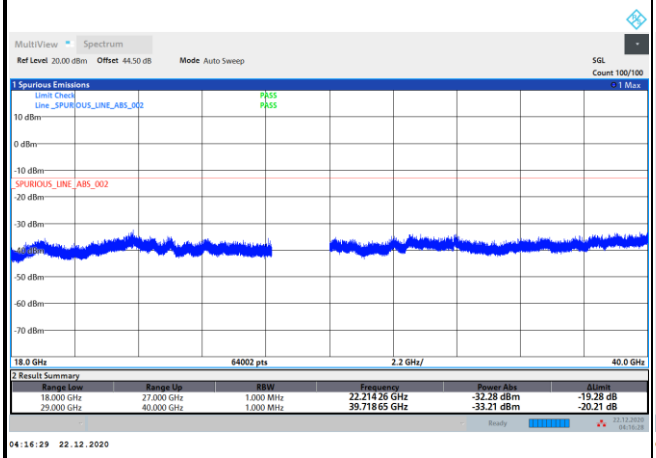
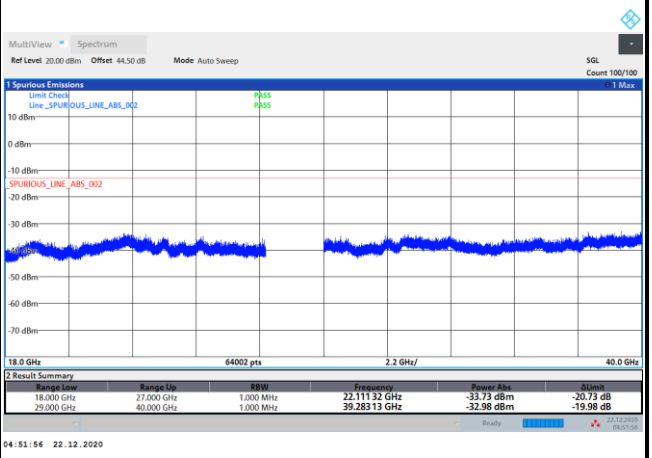
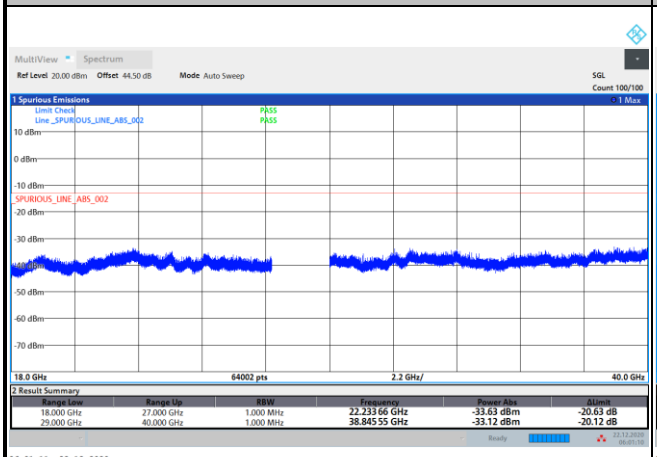
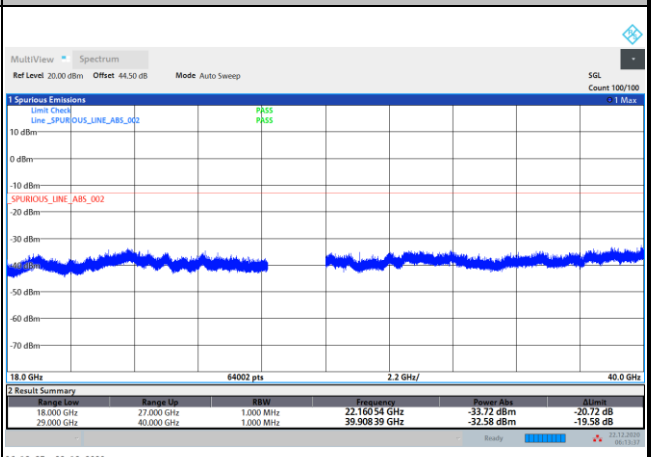
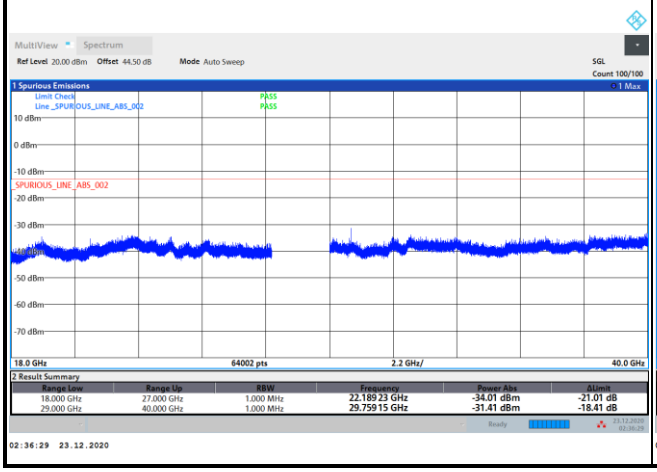
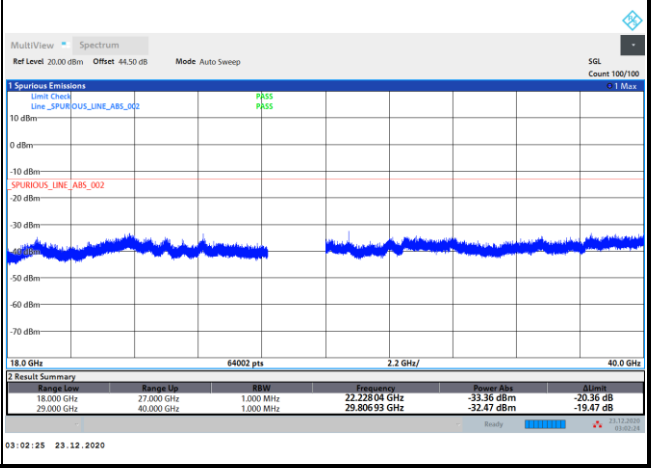
**Remark: In band and out of band frequencies are omitted.**

**AG0 DFT-s-OFDM Module 1**

| NR Band n261 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 200MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 200MHz** | |
|  | **intentionally blank** |

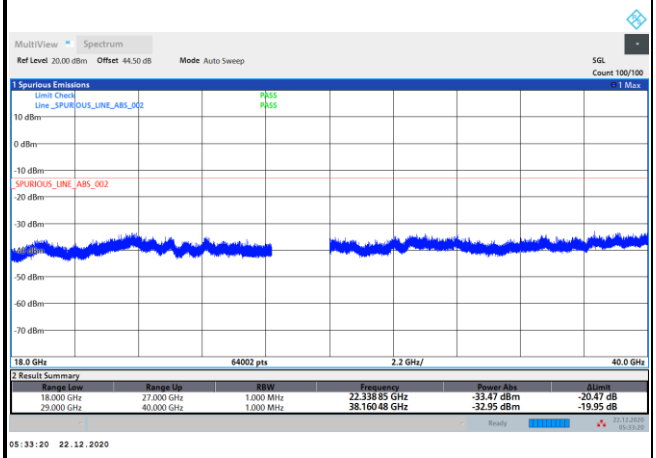
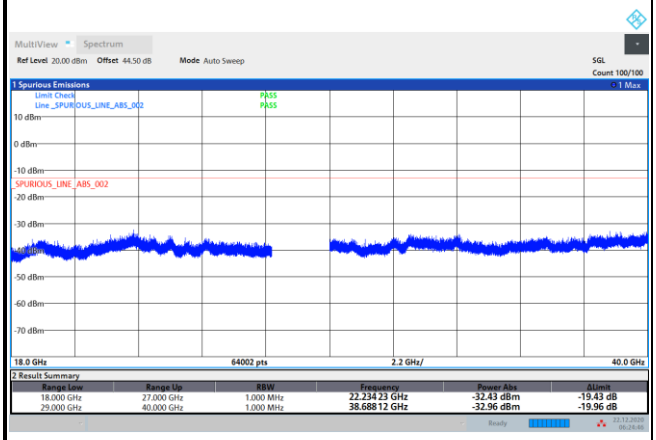
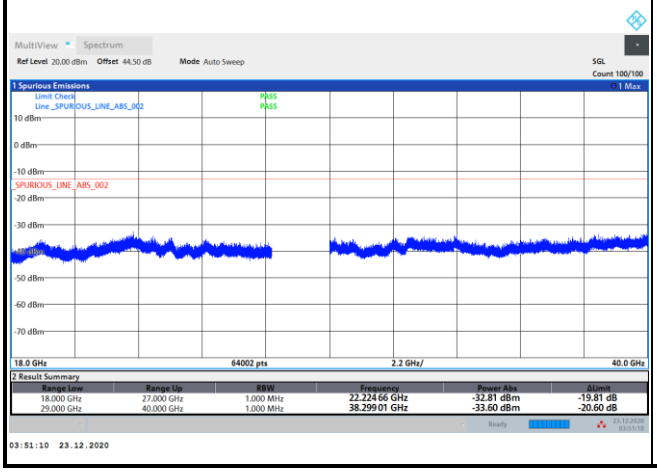
**Remark: In band and out of band frequencies are omitted.**

**AG1 DFT-s-OFDM Module 1**

| NR Band n261 BPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 50MHz** | **Lowest Channel / 100MHz** |
|  |  |
| **Middle Channel / 50MHz** | **Middle Channel / 100MHz** |
|  |  |
| **Highest Channel / 50MHz** | **Highest Channel / 100MHz** |
|  |  |

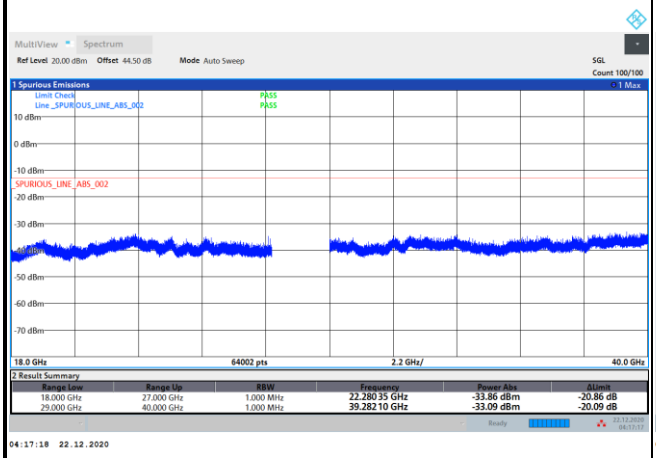
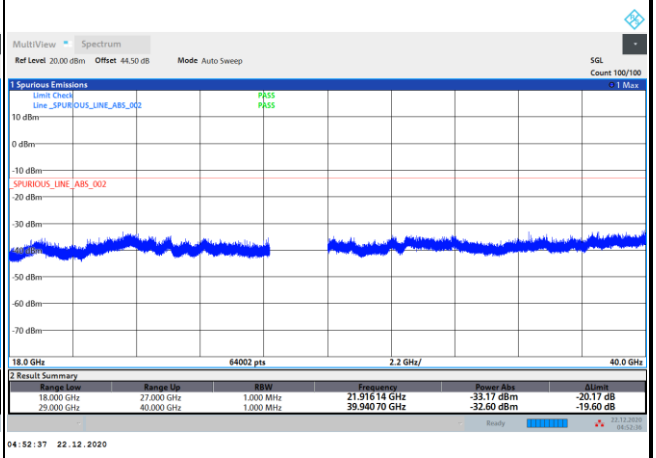
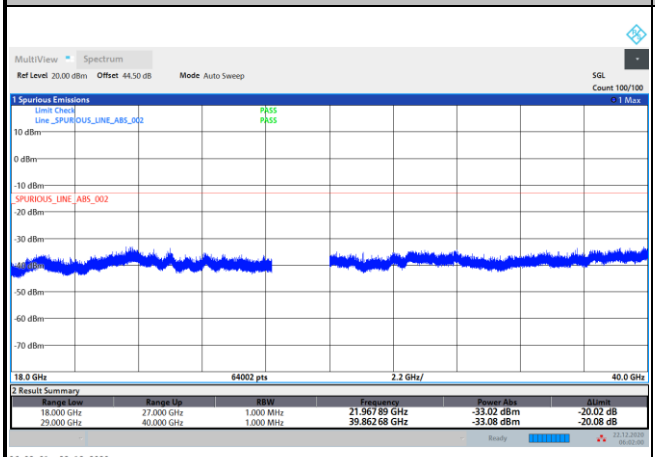
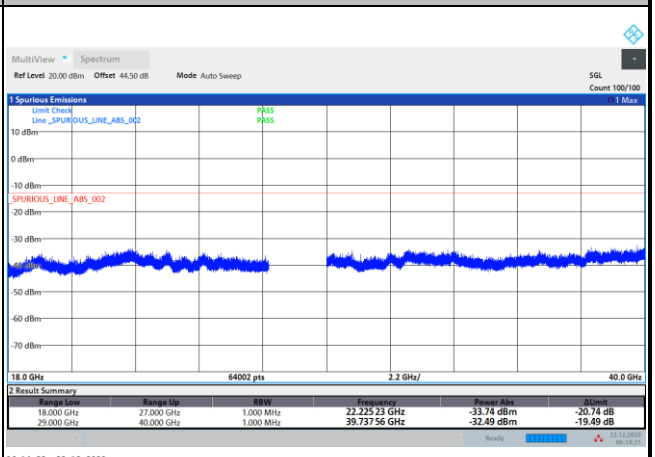
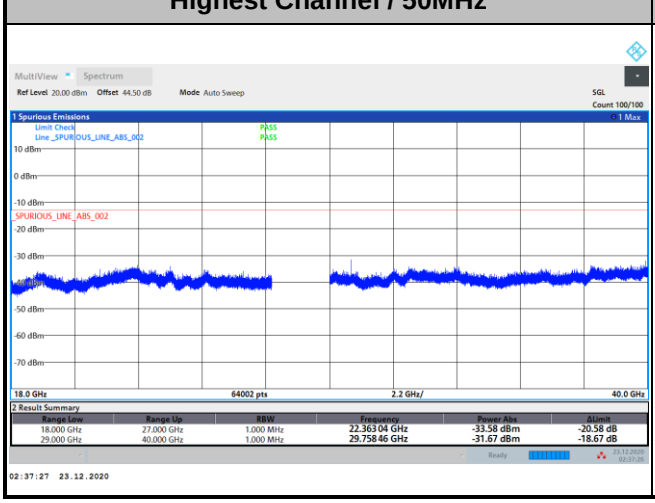
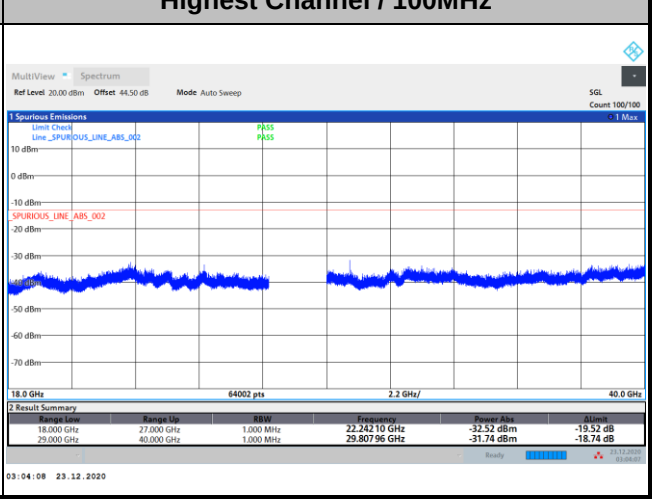
**Remark: In band and out of band frequencies are omitted.**

**AG1 DFT-s-OFDM Module 1**

| NR Band n261 BPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 200MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 200MHz** | |
|  | **intentionally blank** |

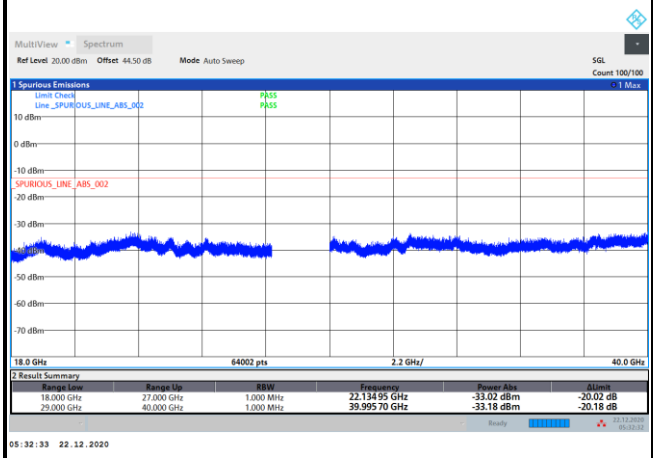
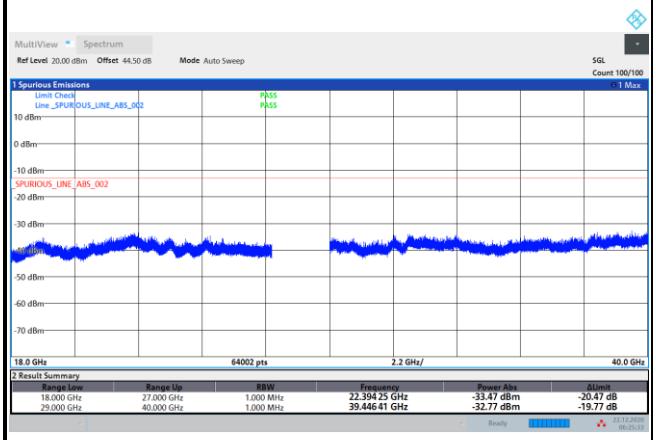
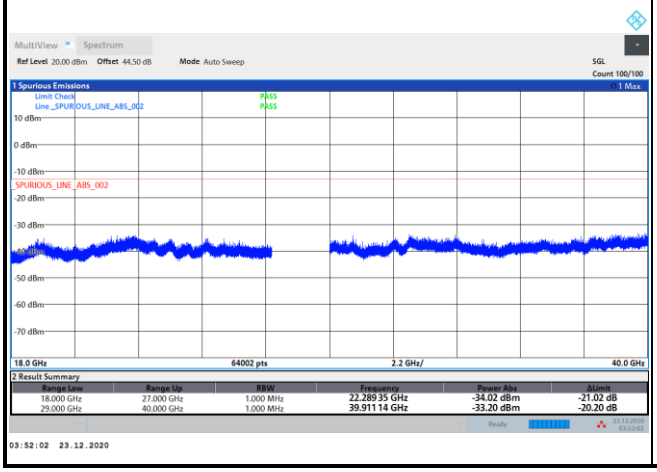
**Remark: In band and out of band frequencies are omitted.**

## AG1 DFT-s-OFDM Module 1

| NR Band n261 QPSK (18-40GHz) | |
|---|---|
| Lowest Channel / 50MHz | Lowest Channel / 100MHz |
|  |  |
| Middle Channel / 50MHz | Middle Channel / 100MHz |
|  |  |
| Highest Channel / 50MHz | Highest Channel / 100MHz |
|  |  |

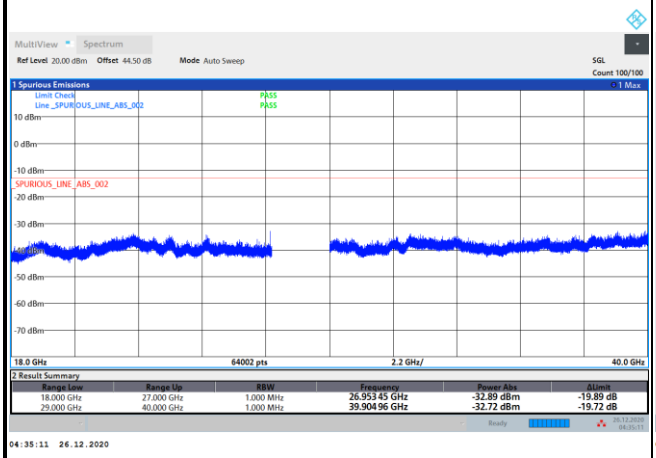
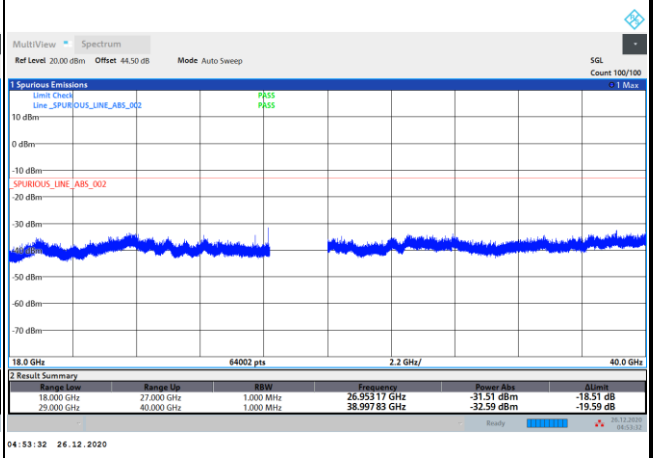
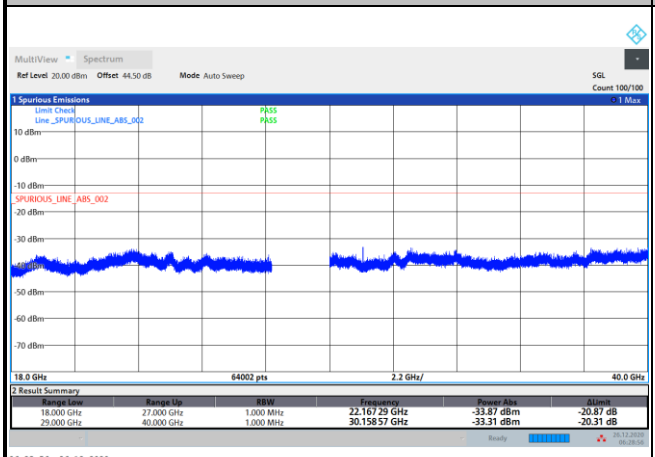
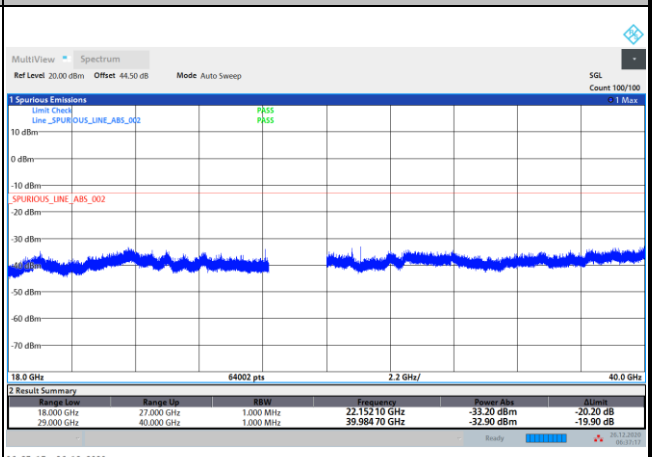
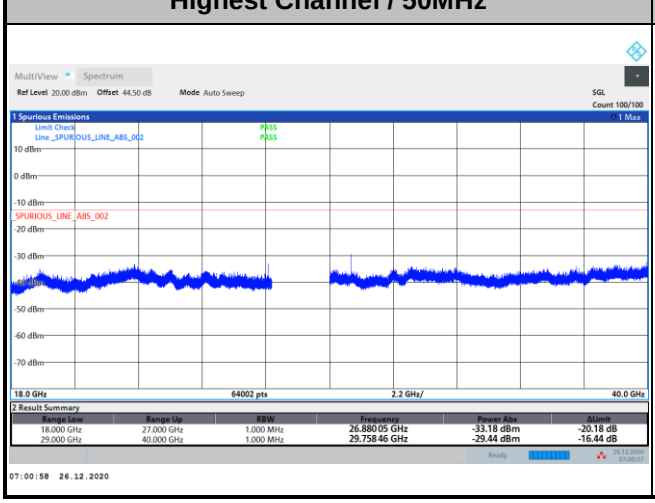
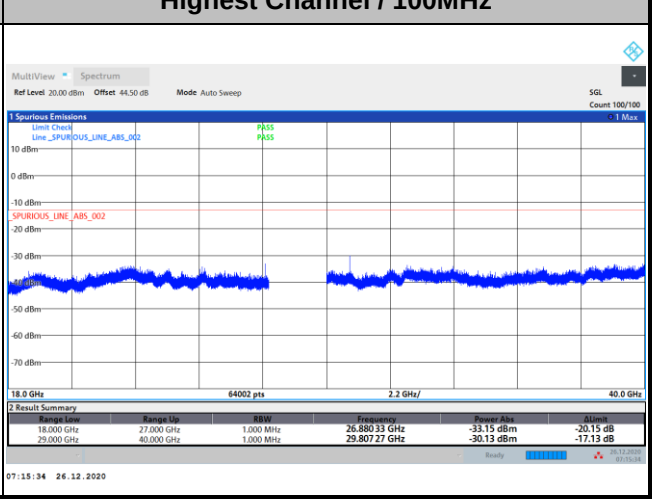
**Remark: In band and out of band frequencies are omitted.**

**AG1 DFT-s-OFDM Module 1**

| NR Band n261 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 200MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 200MHz** | |
|  | **intentionally blank** |

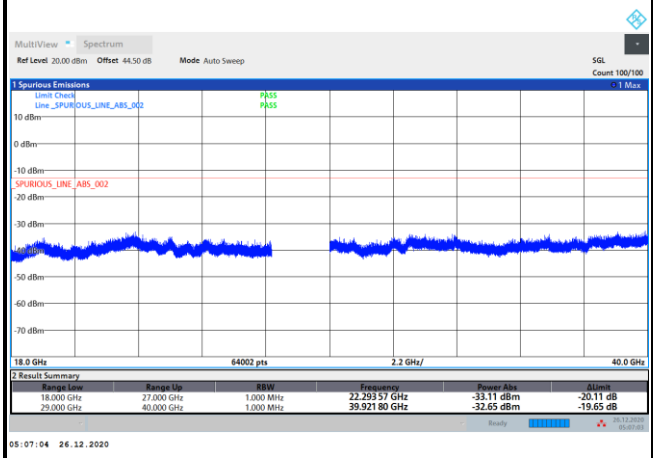
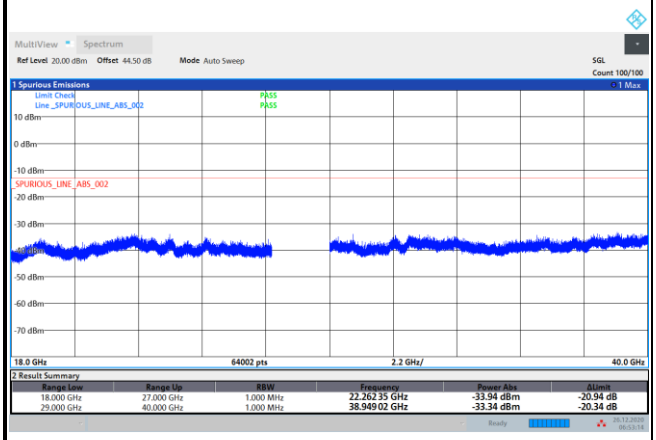
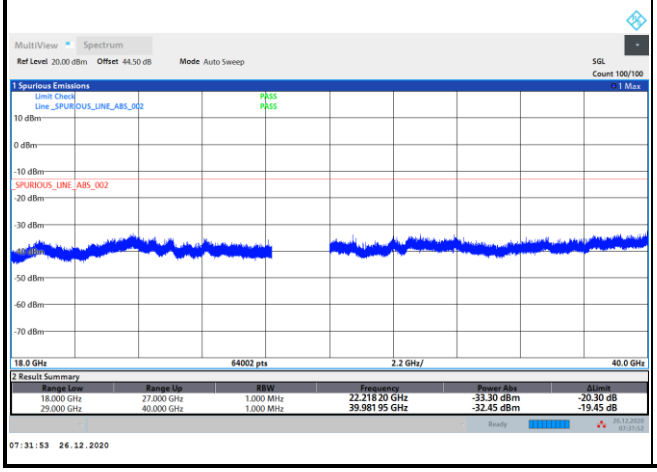
**Remark: In band and out of band frequencies are omitted.**

**AG0+1 DFT-s-OFDM Module 1**

| NR Band n261 BPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 50MHz** | **Lowest Channel / 100MHz** |
|  |  |
| **Middle Channel / 50MHz** | **Middle Channel / 100MHz** |
|  |  |
| **Highest Channel / 50MHz** | **Highest Channel / 100MHz** |
|  |  |

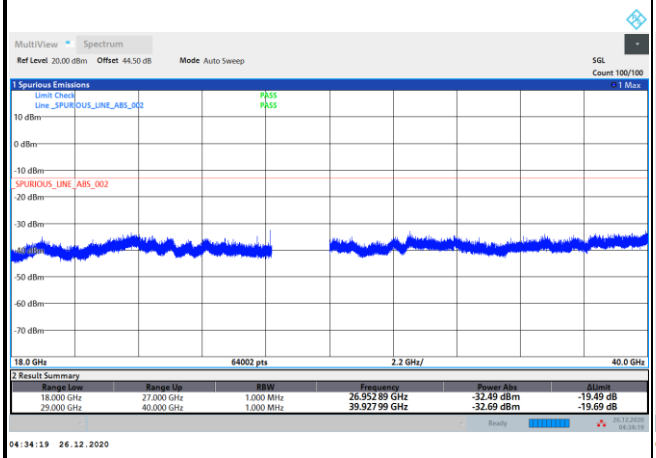
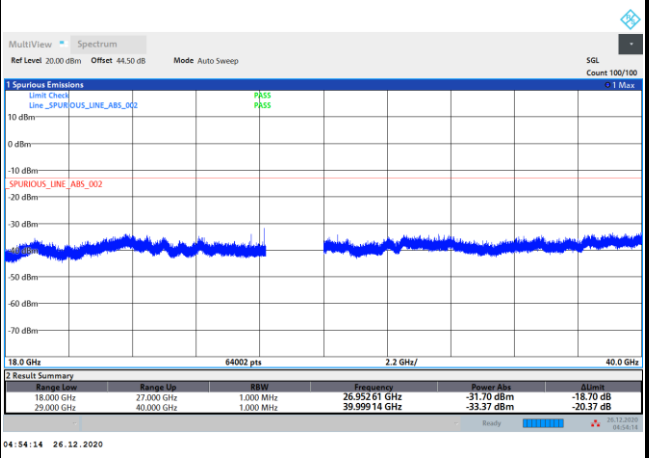
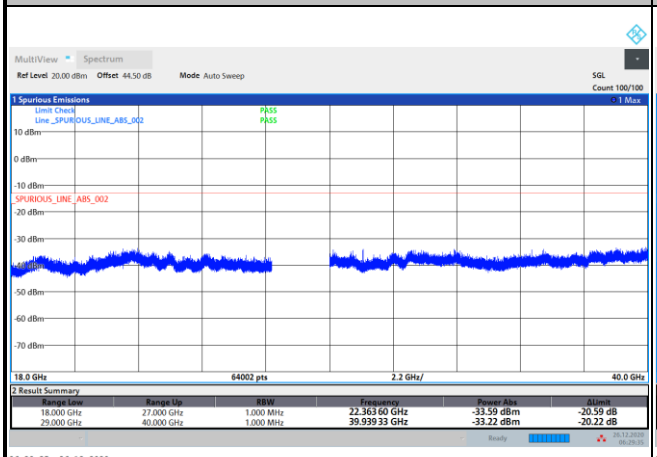
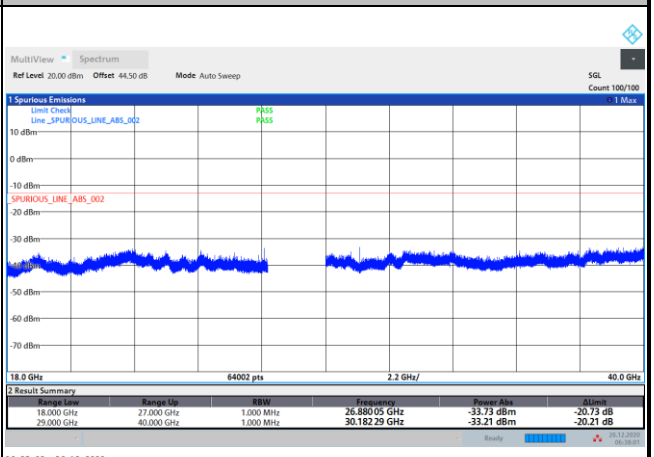
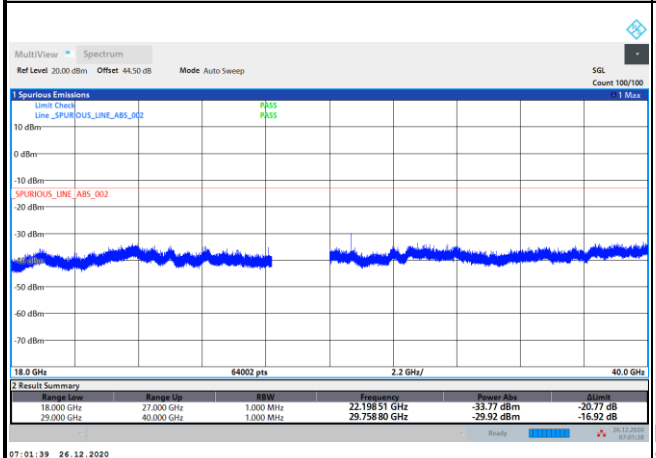
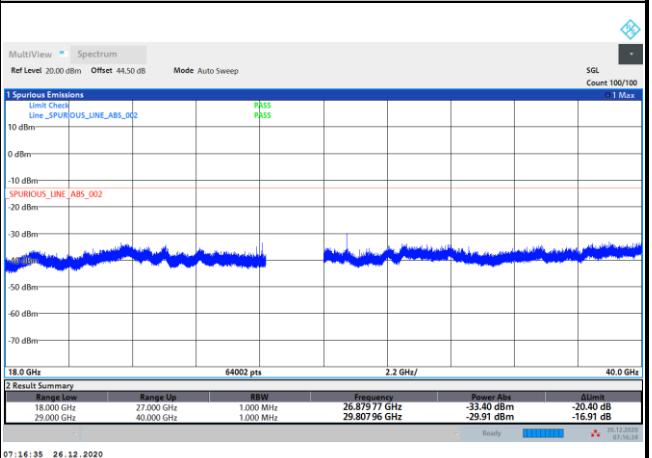
**Remark: In band and out of band frequencies are omitted.**

**AG0+1 DFT-s-OFDM Module 1**

| NR Band n261 BPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 200MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 200MHz** | |
|  | **intentionally blank** |

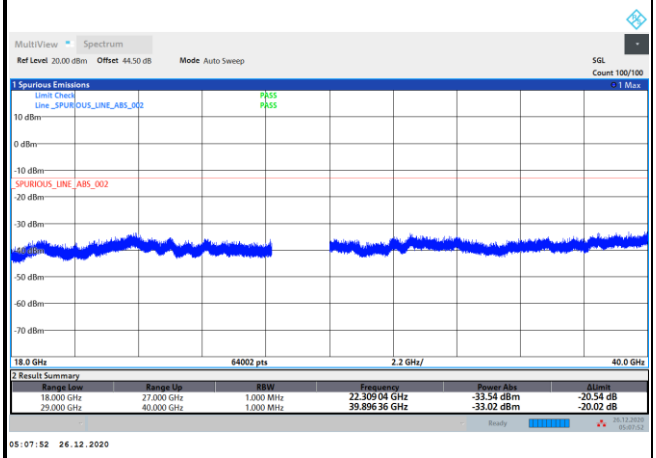
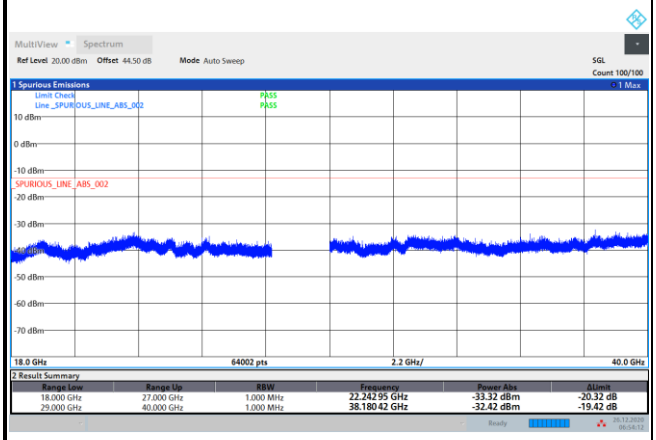
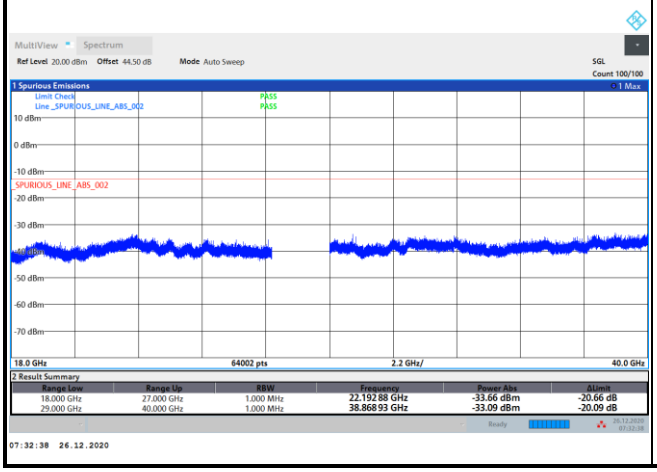
**Remark: In band and out of band frequencies are omitted.**

**AG0+1 DFT-s-OFDM Module 1**

| NR Band n261 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.**

**AG0+1 DFT-s-OFDM Module 1**

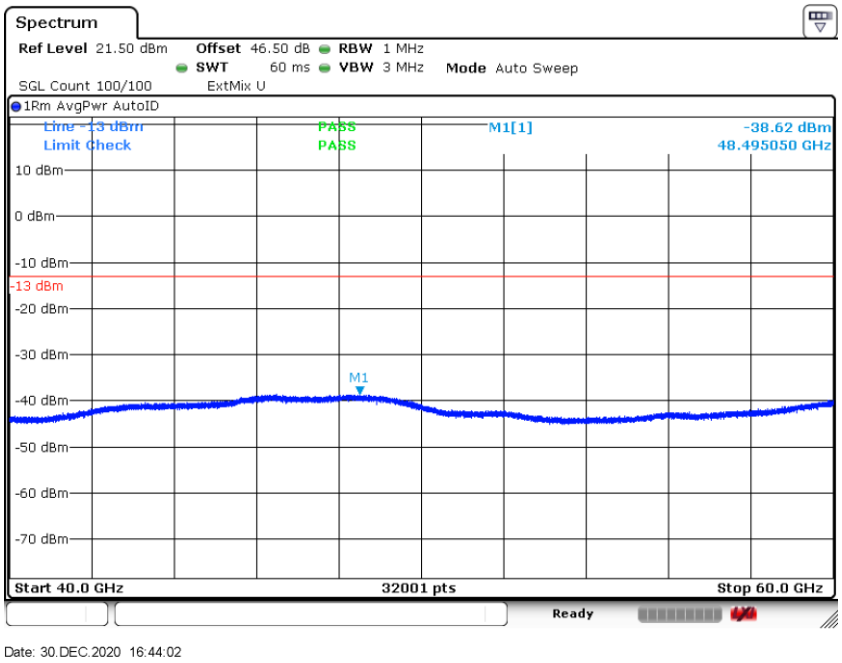
| NR Band n261 QPSK (18-40GHz) | |
|---|---|
| **Lowest Channel / 200MHz** | |
|  | **intentionally blank** |
| **Middle Channel / 200MHz** | |
|  | **intentionally blank** |
| **Highest Channel / 200MHz** | |
|  | **intentionally blank** |

**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 100GHz.

Only the noise floor is reported.

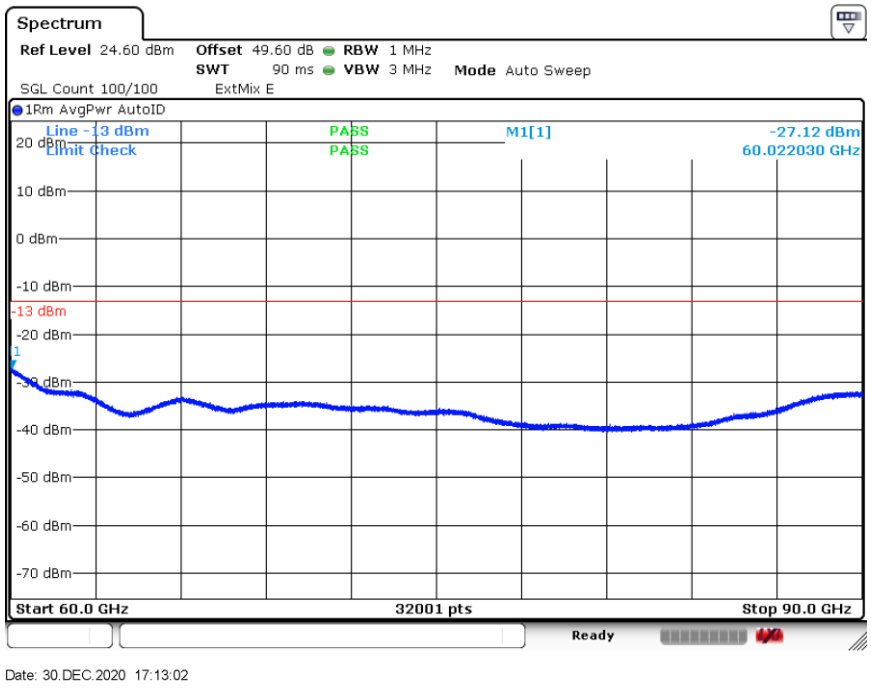
| NR Band n261 |
| --- |
| (40GHz-60GHz) |




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

= 42.3 + 2 + 107 + 20log(1) – 104.8 = 46.5 (dB)

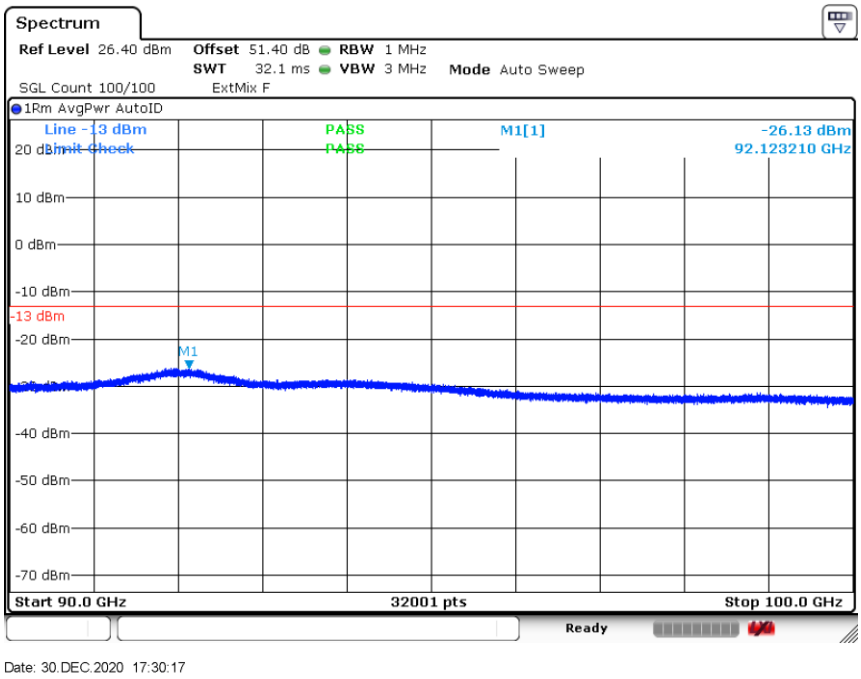
| NR Band n261 |
| --- |
| (60GHz-90GHz) |




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

= 45.4 + 2 + 107 + 20log(1) – 104.8 = 49.6 (dB)

| NR Band n261 |
| --- |
| (90GHz-100GHz) |




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

= 47.2 + 2 + 107 + 20log(1) – 104.8 = 51.4 (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 | 27.92507892 | -78.420 | 2.808 | Pass |
| 40 | Normal Voltage | 27.92505544 | -54.940 | 1.967 | |
| 30 | Normal Voltage | 27.92503896 | -38.460 | 1.377 | |
| 20(Ref.) | Normal Voltage | 27.9250005 | 0.000 | 0.000 | |
| 10 | Normal Voltage | 27.92497453 | 25.970 | 0.930 | |
| 0 | Normal Voltage | 27.92495005 | 50.450 | 1.807 | |
| -10 | Normal Voltage | 27.92493157 | 68.930 | 2.468 | |
| -20 | Normal Voltage | 27.92490859 | 91.910 | 3.291 | |
| -30 | Normal Voltage | 27.92488412 | 116.380 | 4.168 | |
| 20 | Maximum Voltage | 27.92501149 | -10.990 | 0.394 | |
| 20 | Normal Voltage | 27.925004 | -3.500 | 0.125 | |
| 20 | Battery End Point | 27.92498601 | 14.490 | 0.519 | |

**Note:**

1. Normal Voltage =7.74 V.；Battery End Point (BEP) =7.2 V.；Maximum Voltage =8.9 V.
2. The frequency fundamental emissions stay within the operation band.

# NR Band n261 Module 2

## Occupied Bandwidth

**AG0**

| Mode | DFT-s-OFDM Module 2 NR Band n261 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 50MHz | | | | 100MHz | | | | 200MHz | | | |
| Mod. | BPSK | QPSK | 16QAM | 64QAM | BPSK | QPSK | 16QAM | 64QAM | BPSK | QPSK | 16QAM | 64QAM |
| Lowest CH | 45.03 | 45.56 | 45.33 | 45.19 | 90.33 | 90.48 | 90.35 | 90.88 | 188.34 | 188.15 | 188.41 | 188.76 |
| Middle CH | 45.27 | 45.21 | 45.38 | 45.25 | 90.04 | 90.52 | 90.35 | 90.36 | 188.80 | 188.36 | 188.18 | 188.51 |
| Highest CH | 47.95 | 48.28 | 47.99 | 47.94 | 90.37 | 90.55 | 90.59 | 90.62 | 187.84 | 188.04 | 188.22 | 188.06 |