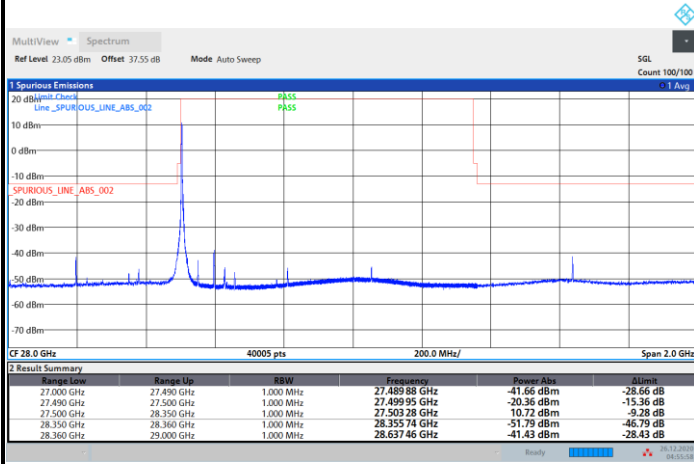




DFT-s-OFDM Module 1

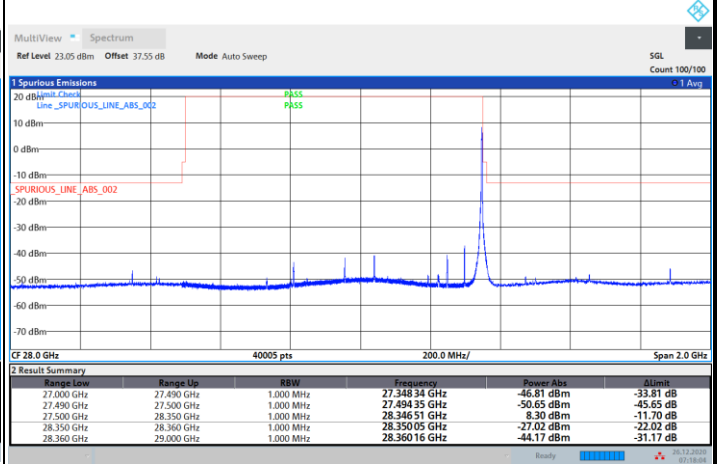
NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB



04:55:59 26.12.2020

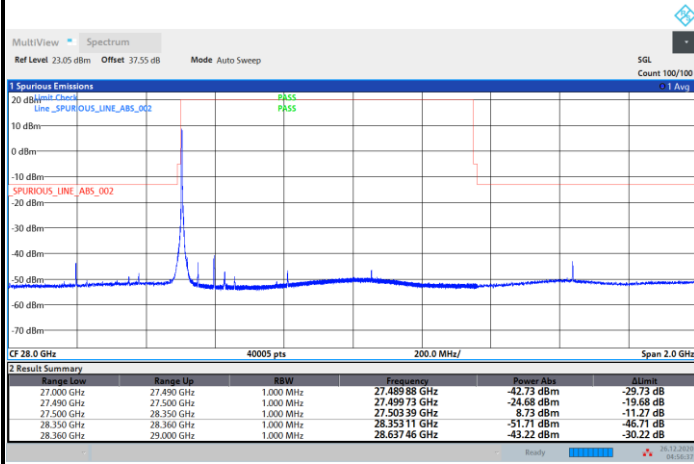
Highest Band Edge / 1 RB



07:10:04 26.12.2020

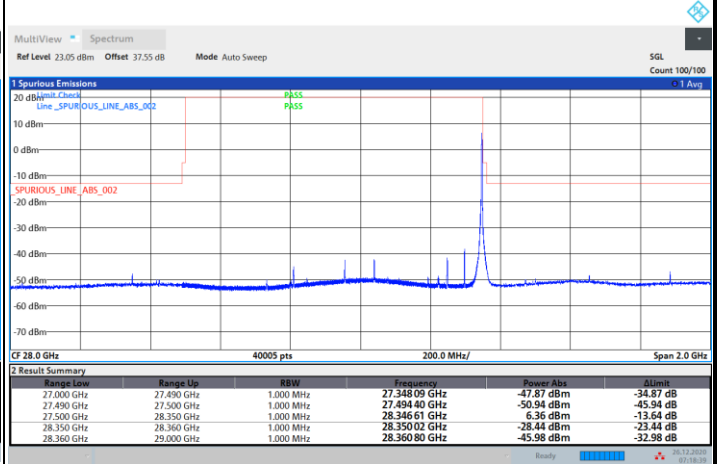
NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB



04:56:37 26.12.2020

Highest Band Edge / 1 RB



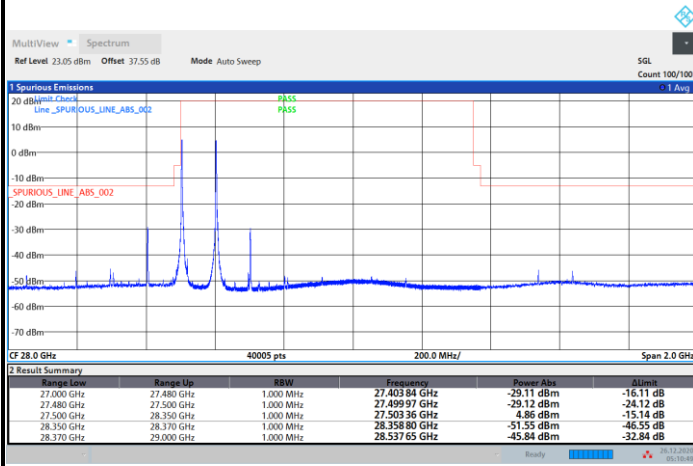
07:18:39 26.12.2020



DFT-s-OFDM Module 1

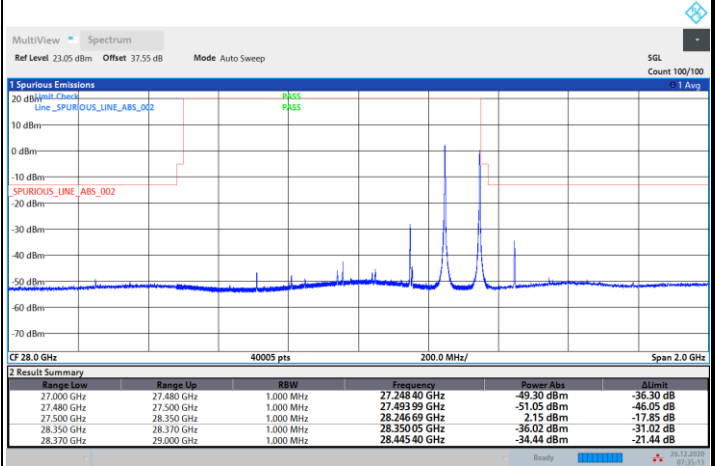
NR Band n261 / 200MHz / BPSK

Lowest Band Edge / 1 RB



05:10:50 26.12.2020

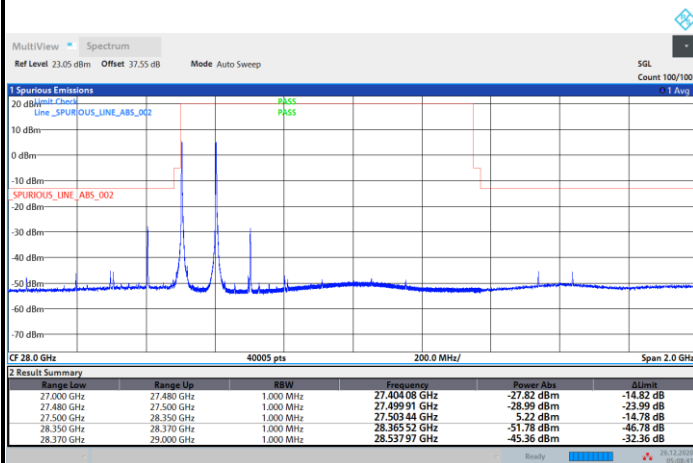
Highest Band Edge / 1 RB



07:35:14 26.12.2020

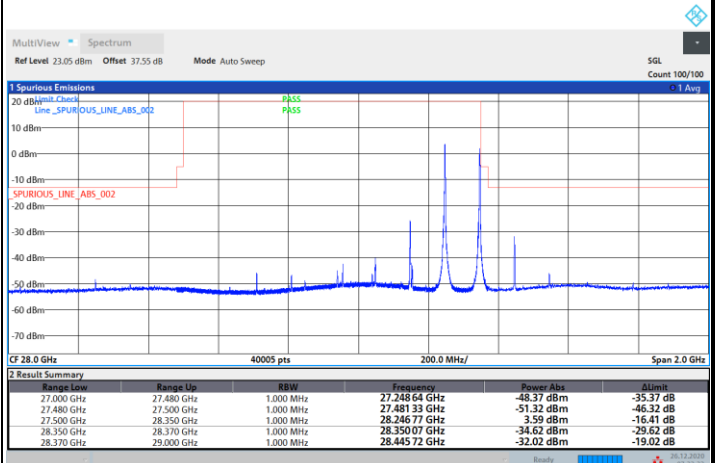
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB



05:08:42 26.12.2020

Highest Band Edge / 1 RB



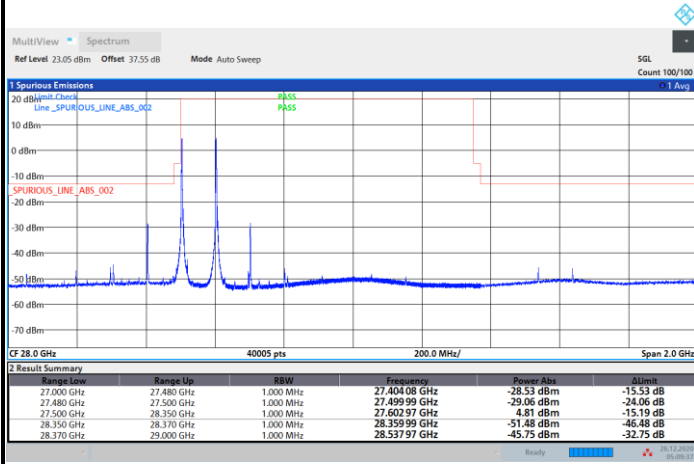
07:33:34 26.12.2020



DFT-s-OFDM Module 1

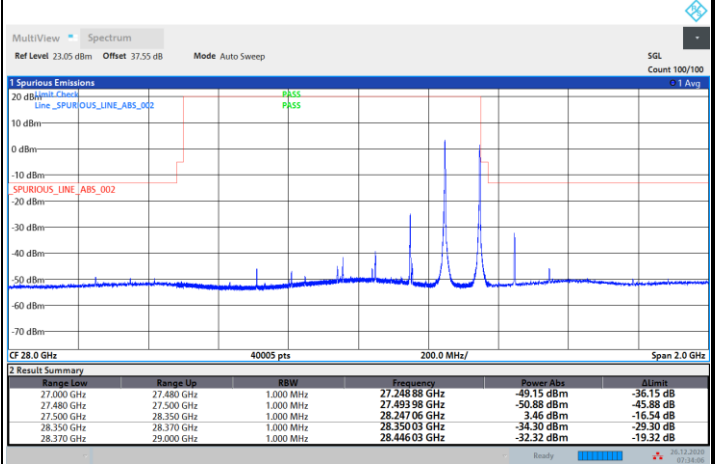
NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / 1 RB



05:09:17 26.12.2020

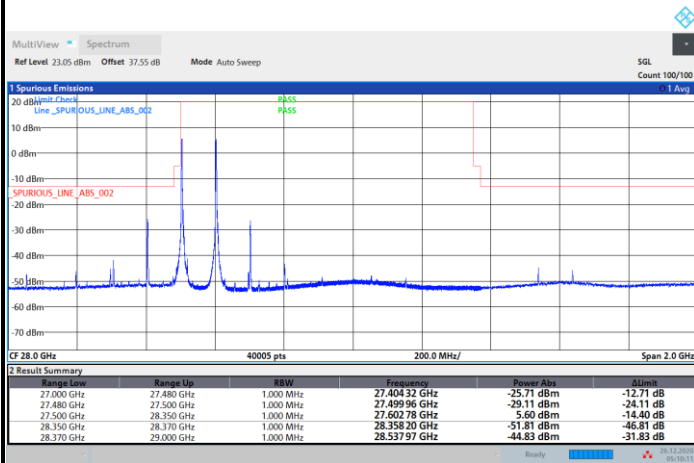
Highest Band Edge / 1 RB



07:34:06 26.12.2020

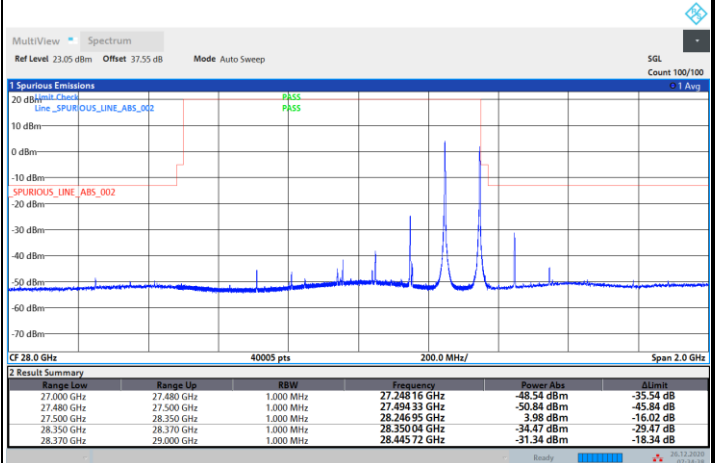
NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / 1 RB



05:10:12 26.12.2020

Highest Band Edge / 1 RB



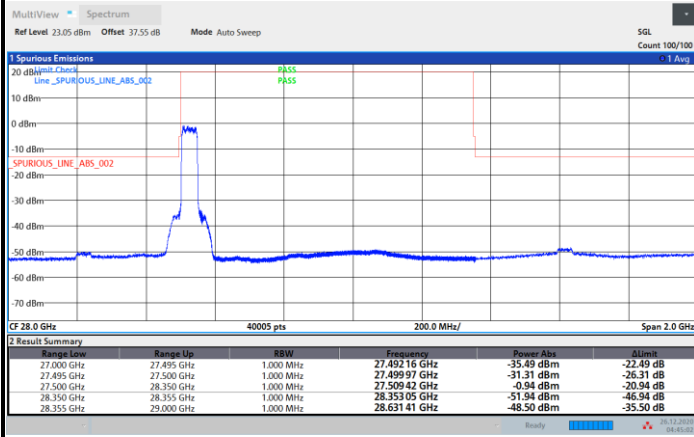
07:34:39 26.12.2020



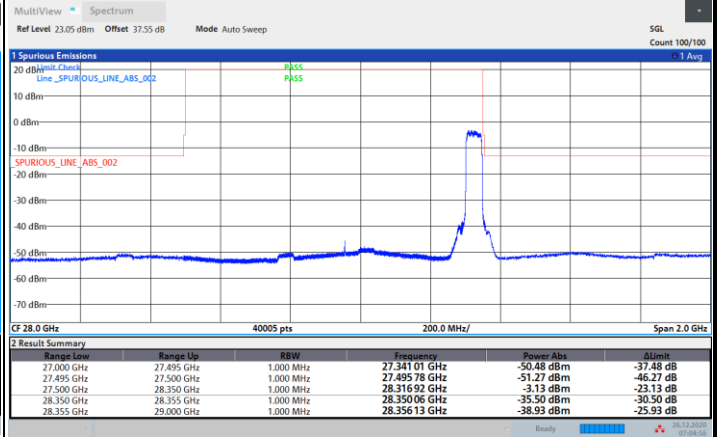
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / BPSK

Lowest Band Edge / Full RB

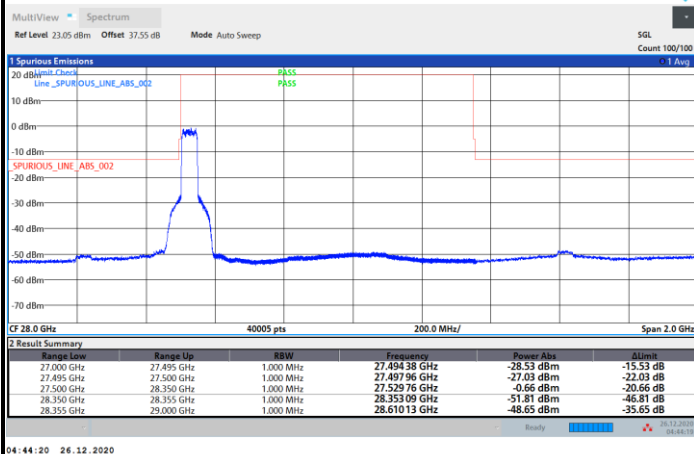


Highest Band Edge / Full RB

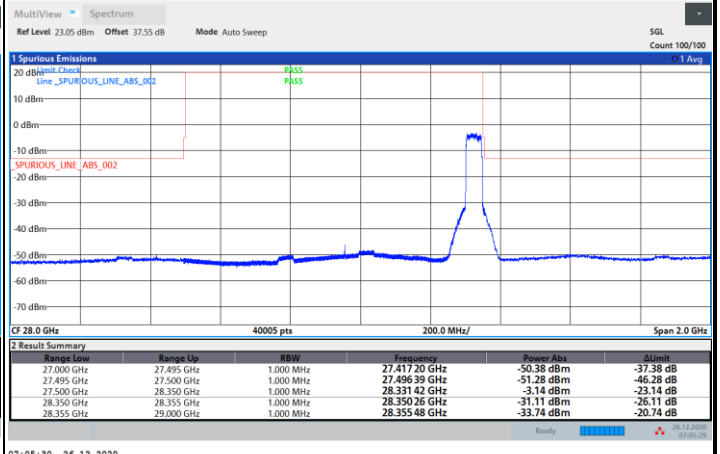


NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

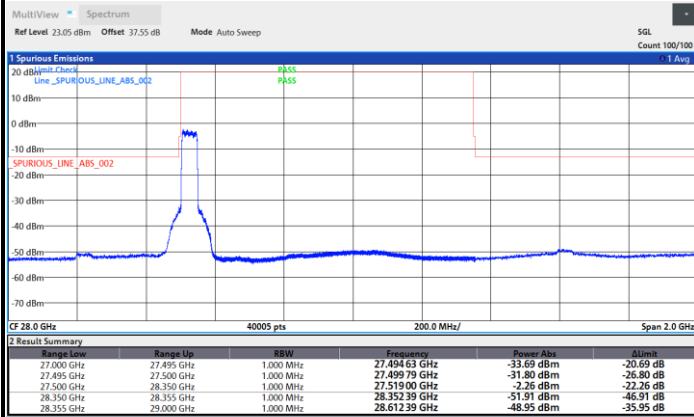




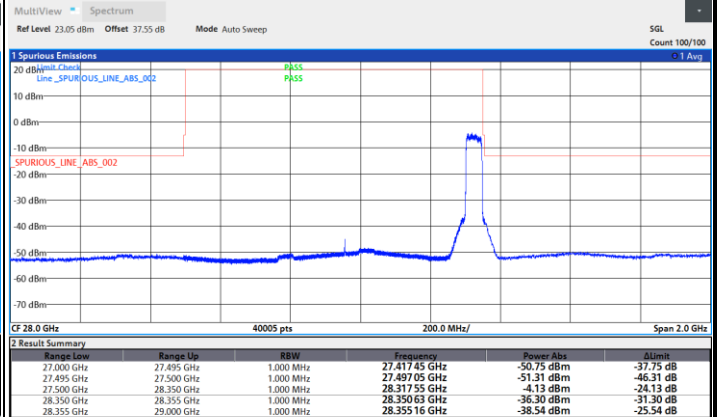
DFT-s-OFDM Module 1

NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB

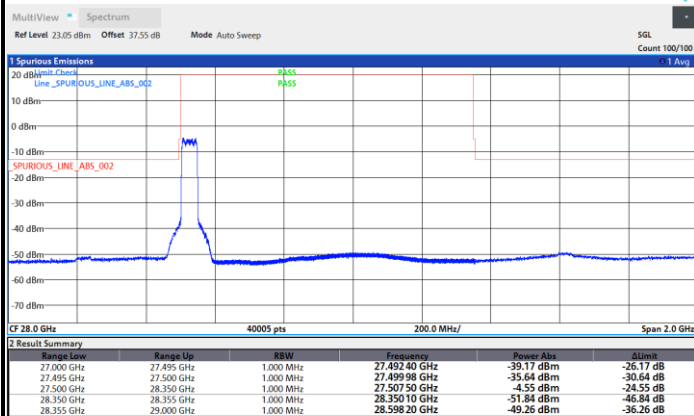


Highest Band Edge / Full RB

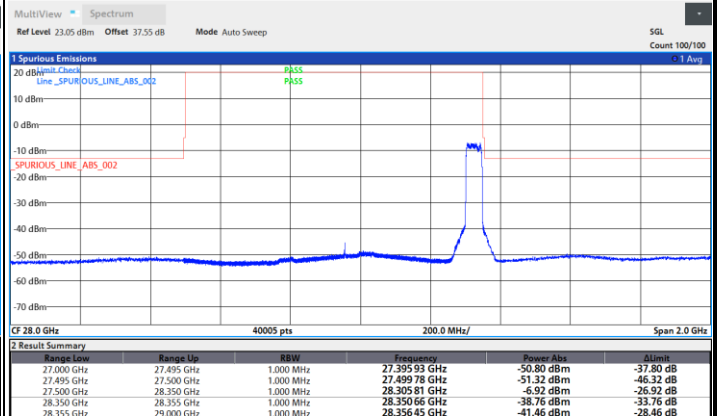


NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

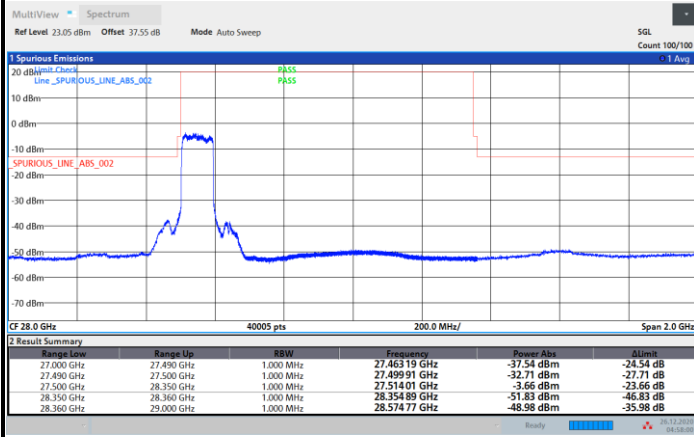




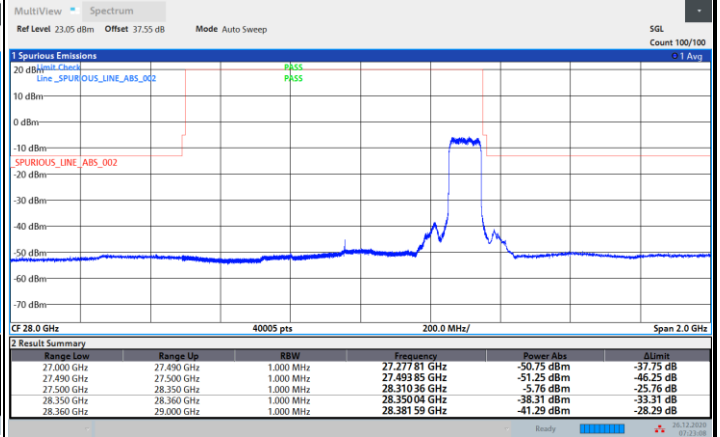
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / BPSK

Lowest Band Edge / Full RB

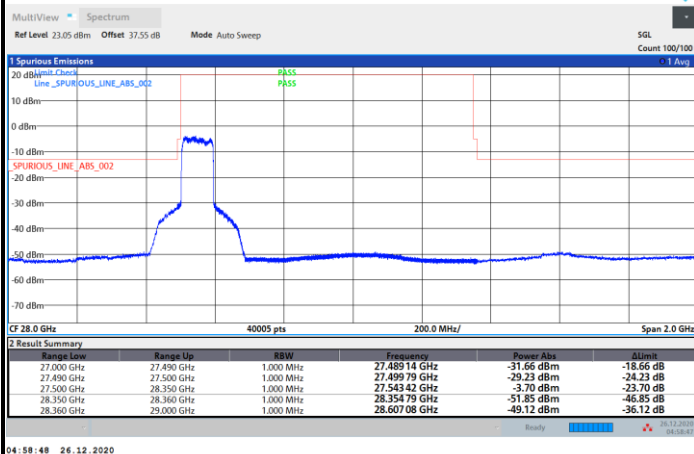


Highest Band Edge / Full RB

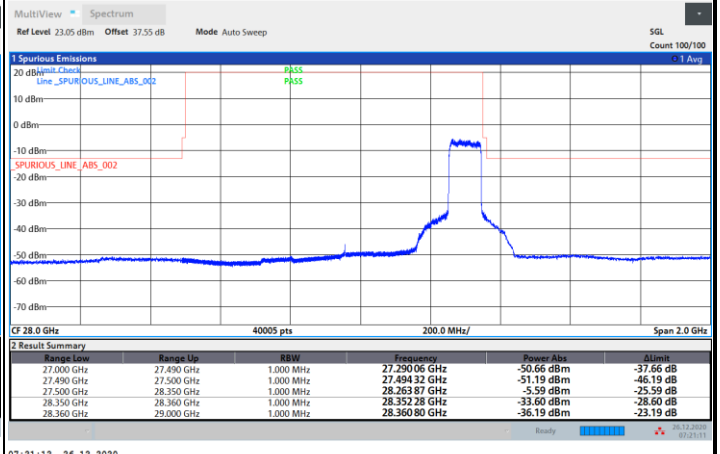


NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

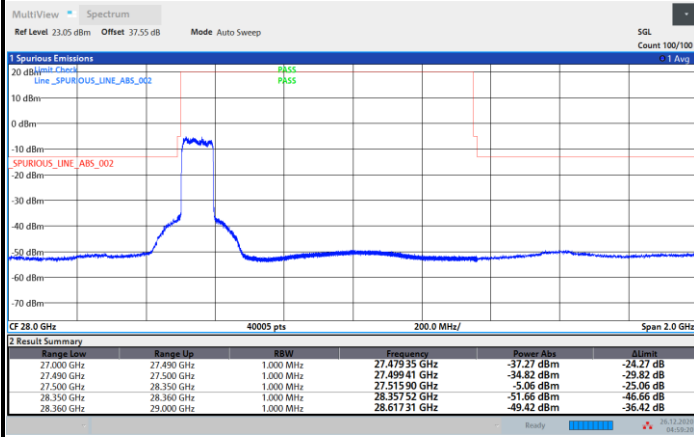




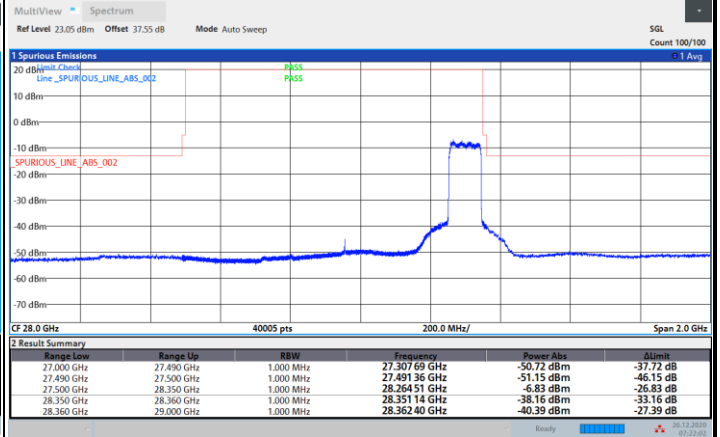
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB

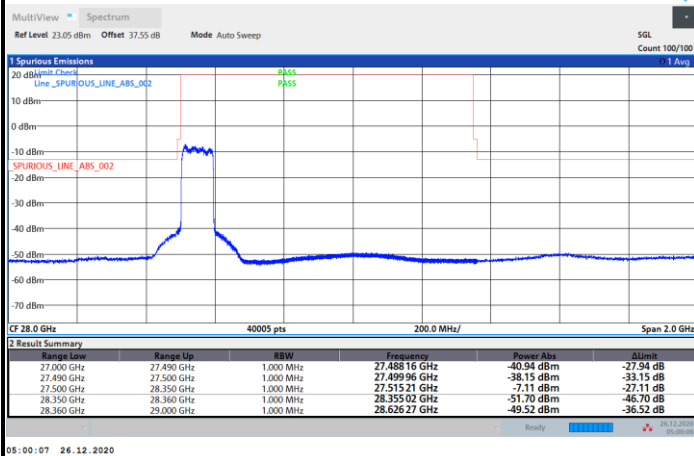


Highest Band Edge / Full RB

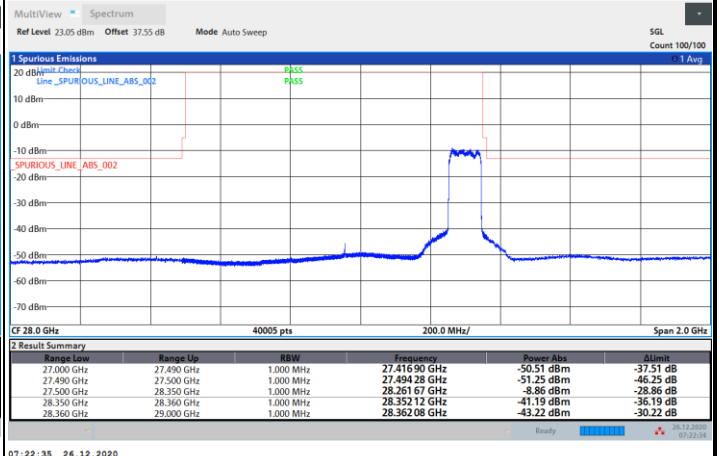


NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

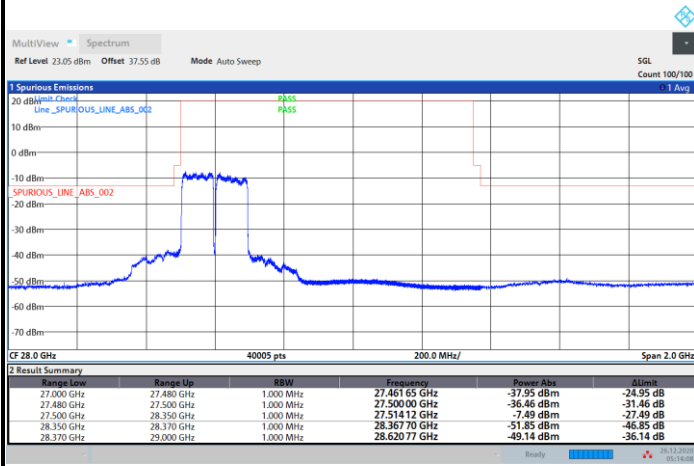




DFT-s-OFDM Module 1

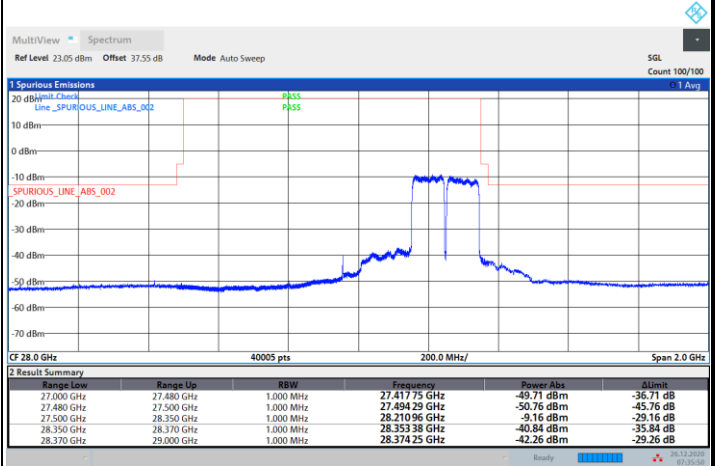
NR Band n261 / 200MHz / BPSK

Lowest Band Edge / Full RB



05:14:09 26.12.2020

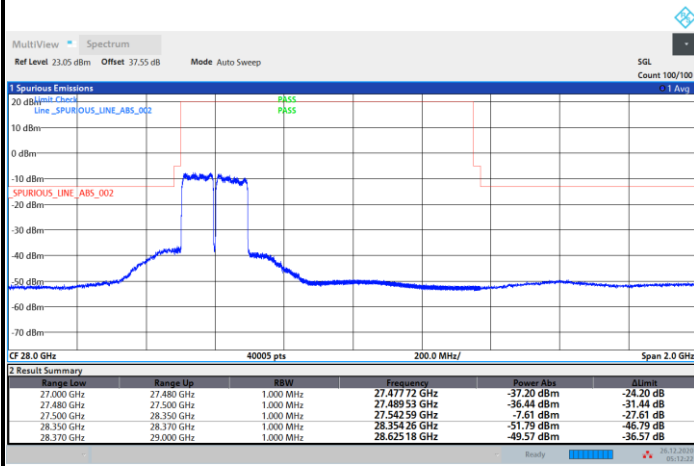
Highest Band Edge / Full RB



07:35:51 26.12.2020

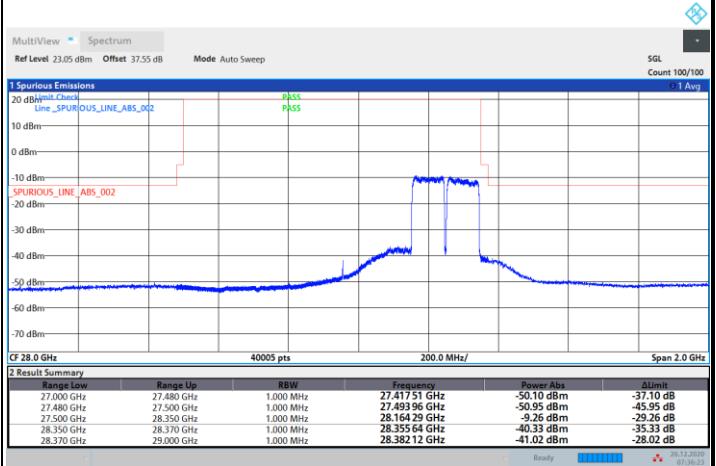
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



05:12:22 26.12.2020

Highest Band Edge / Full RB



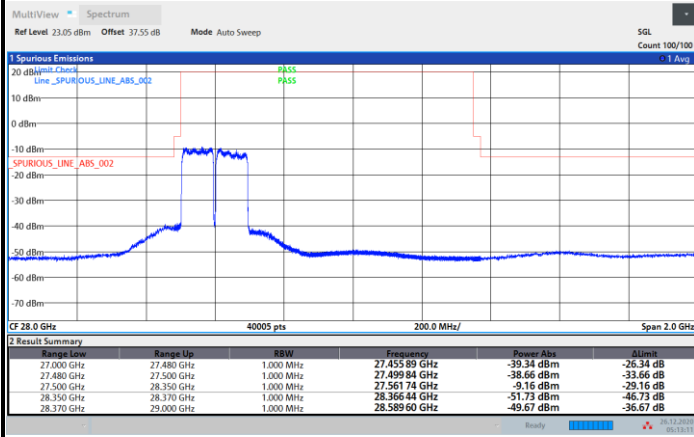
07:36:23 26.12.2020



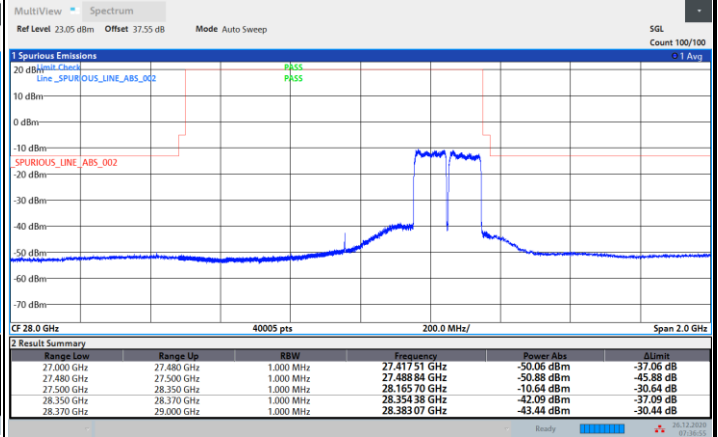
DFT-s-OFDM Module 1

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB

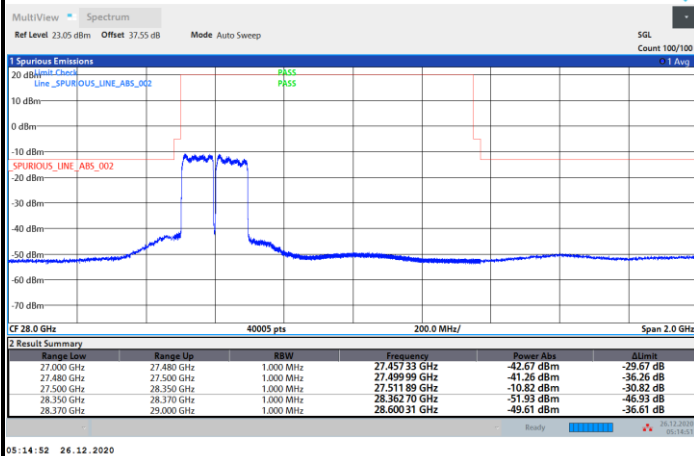


Highest Band Edge / Full RB

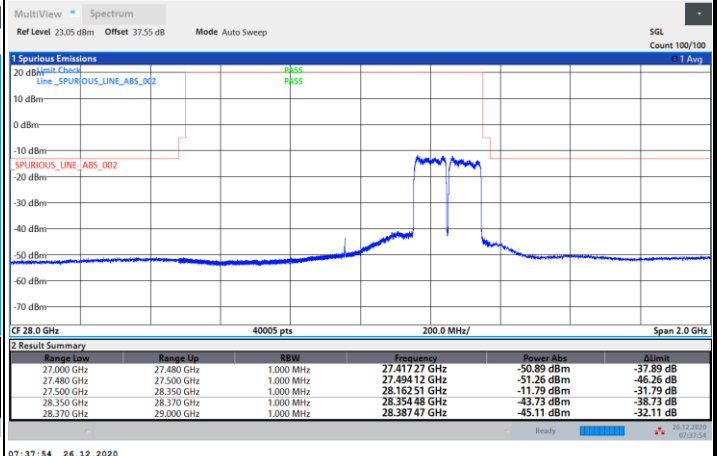


NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

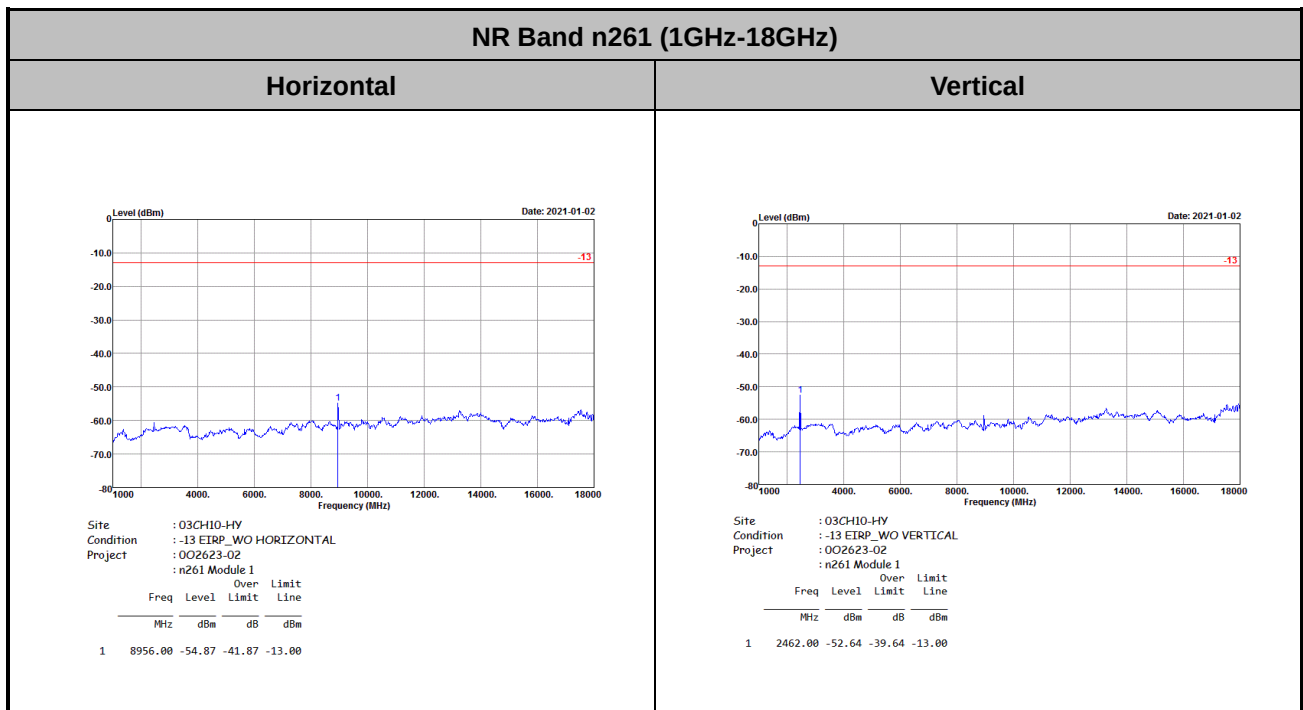
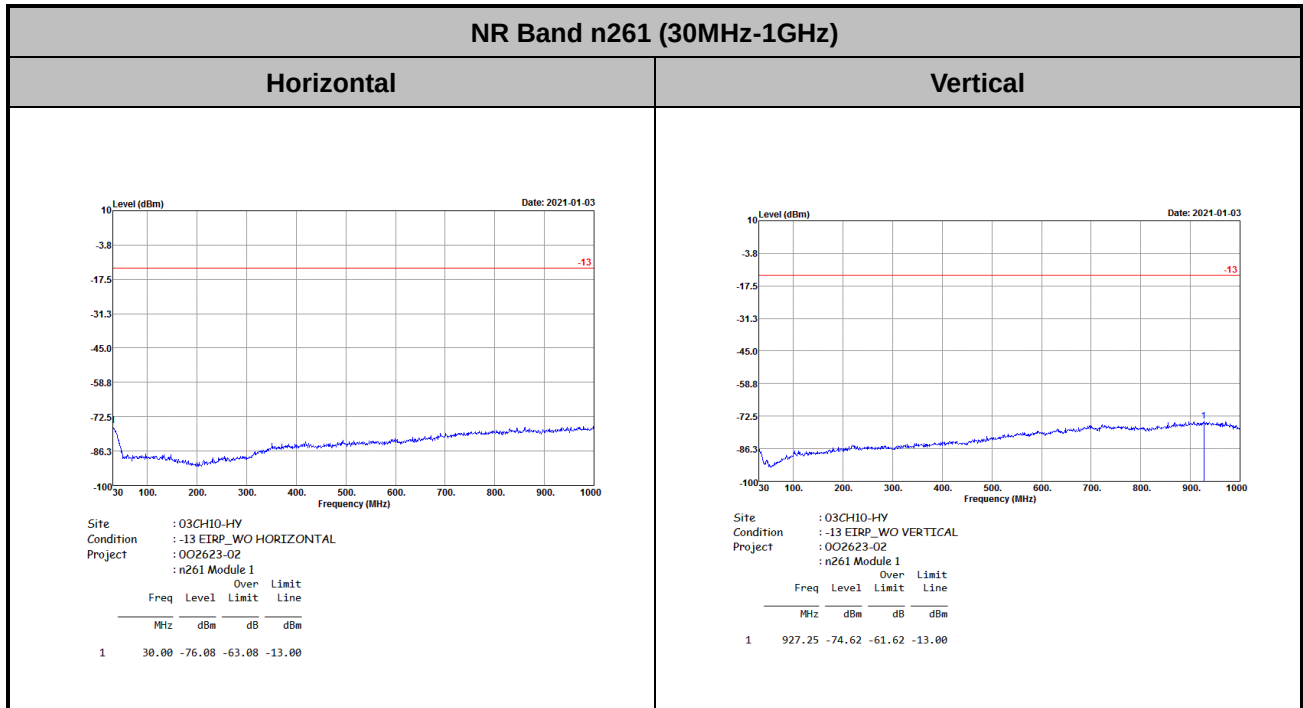




Spurious Emission

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

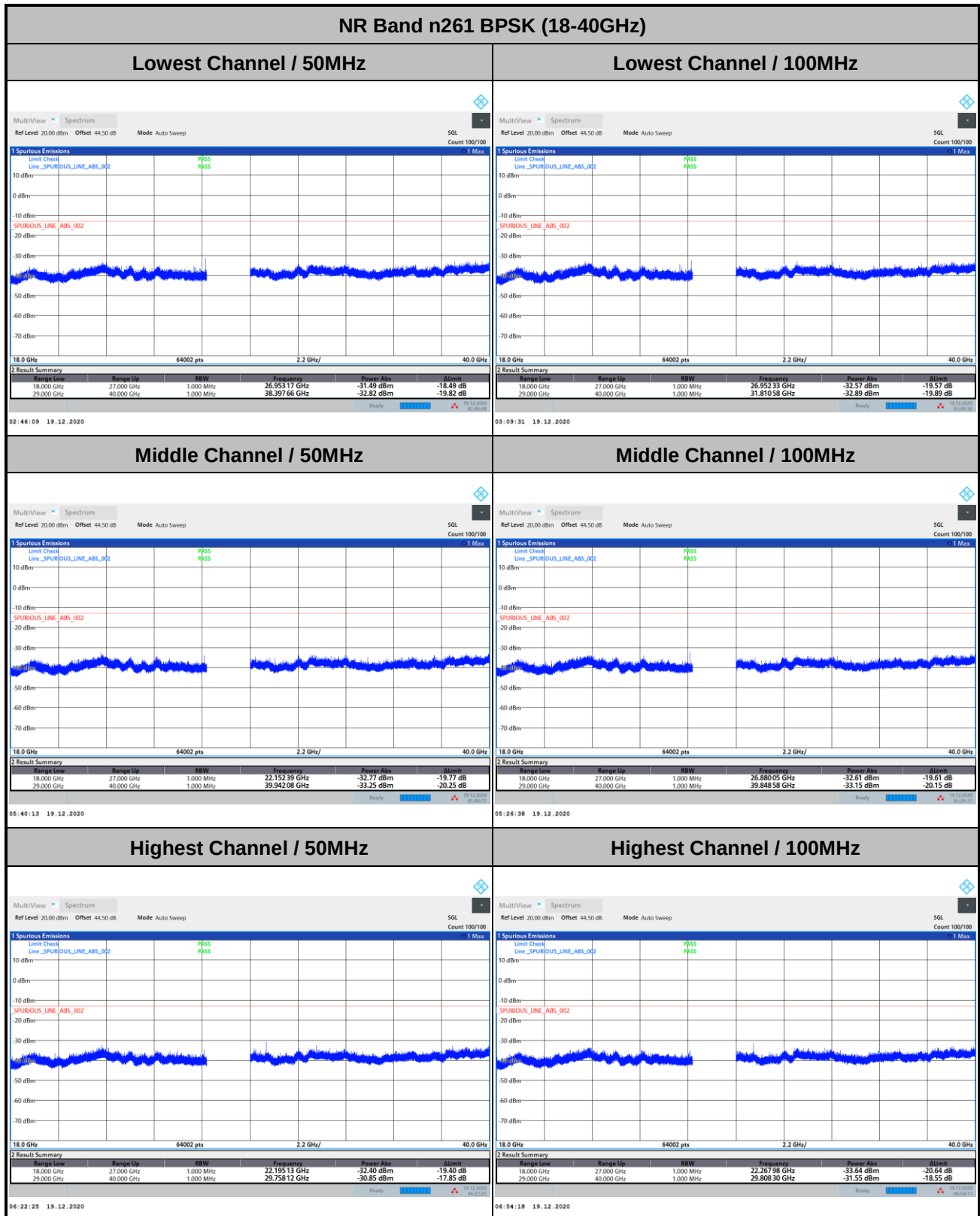
Only the noise floor is reported.





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

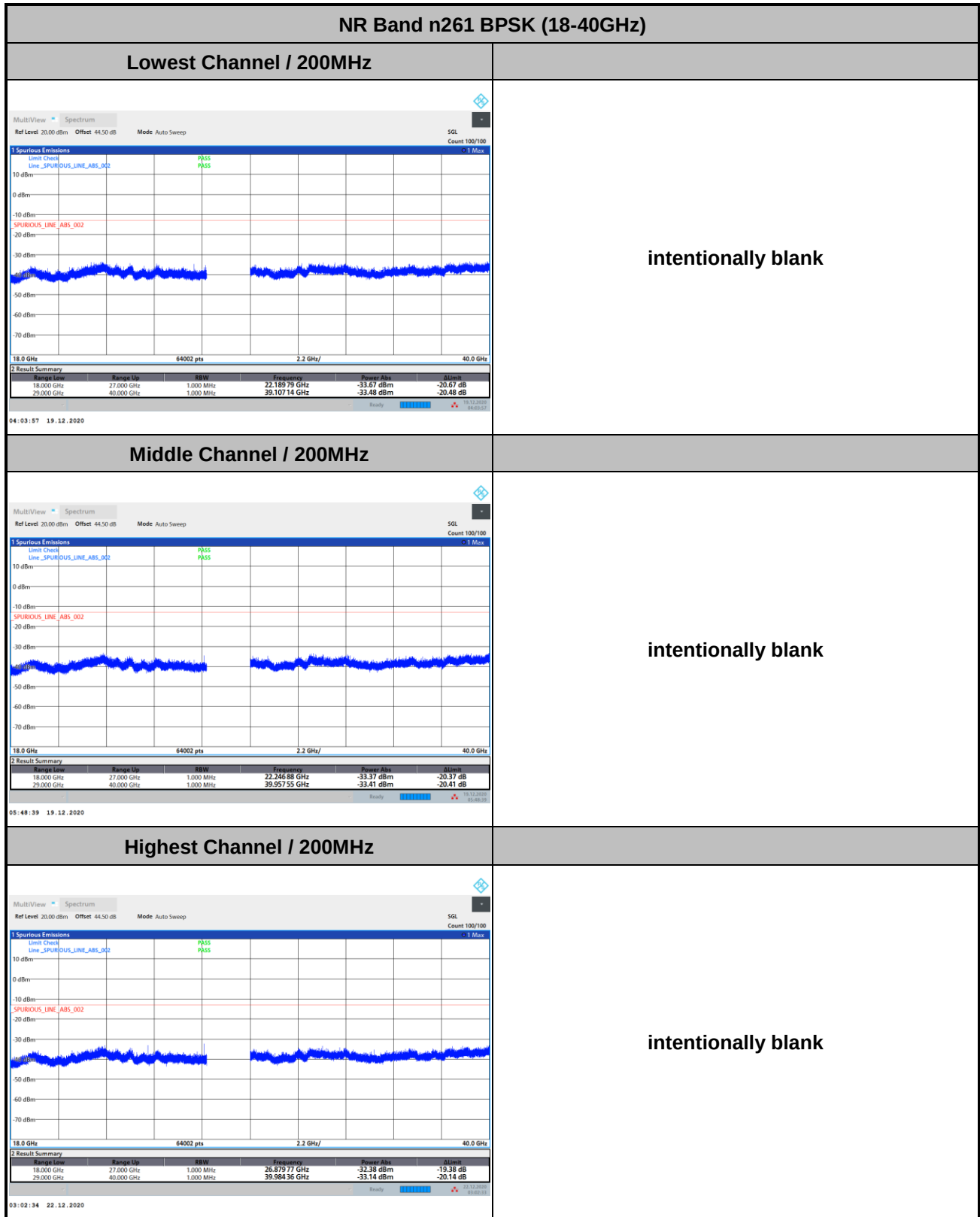
AG0 DFT-s-OFDM Module 1



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



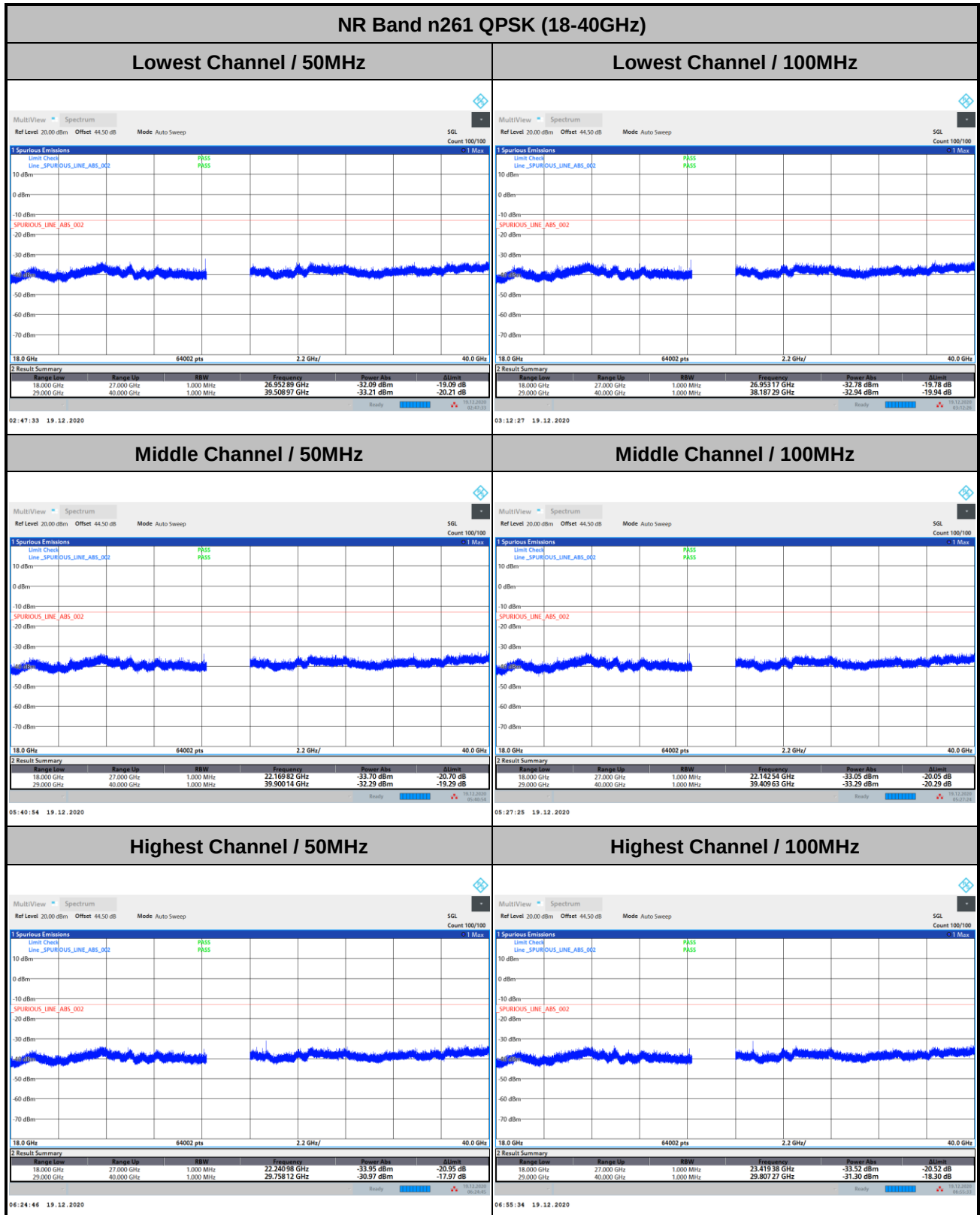
AG0 DFT-s-OFDM Module 1



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



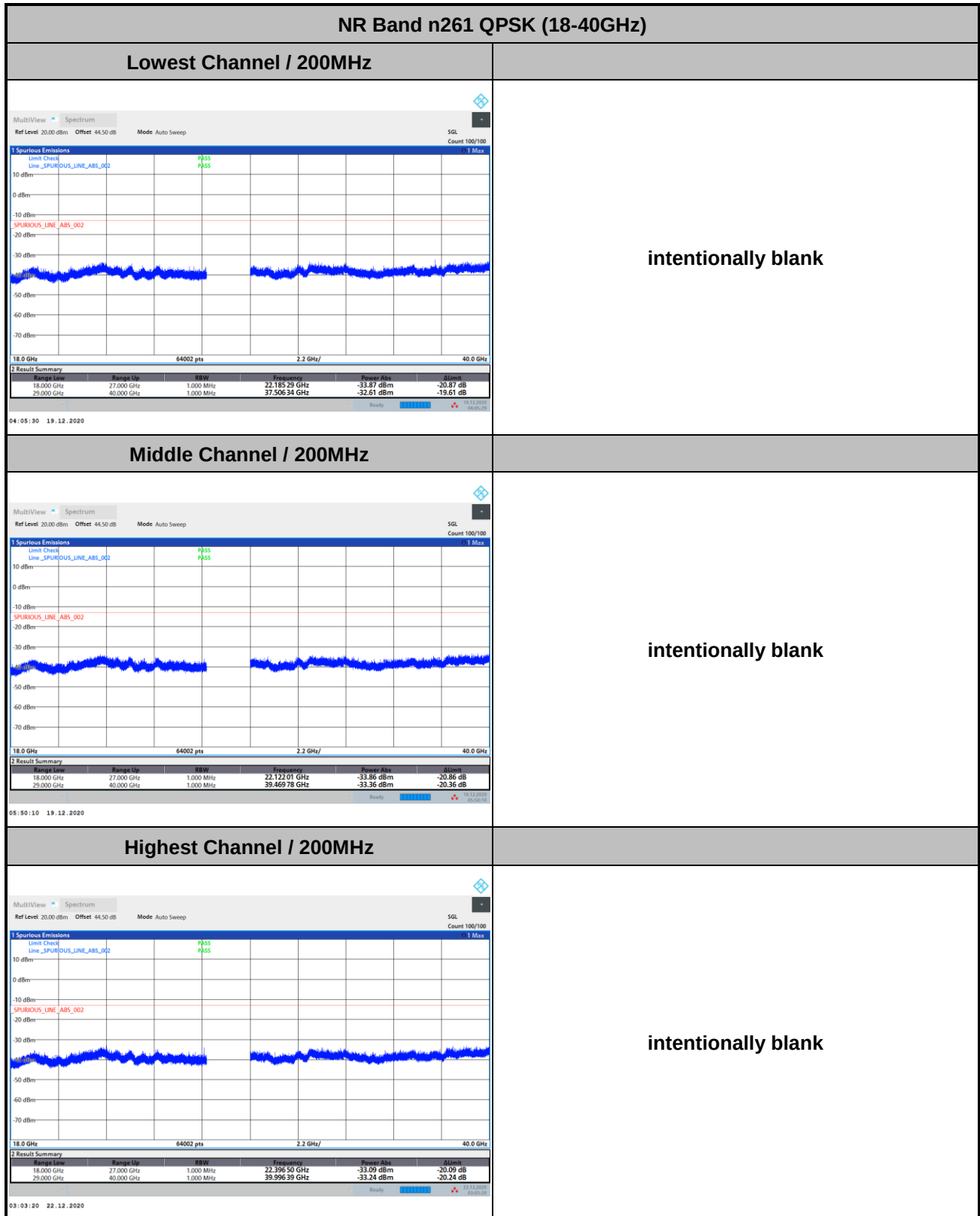
AG0 DFT-s-OFDM Module 1



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



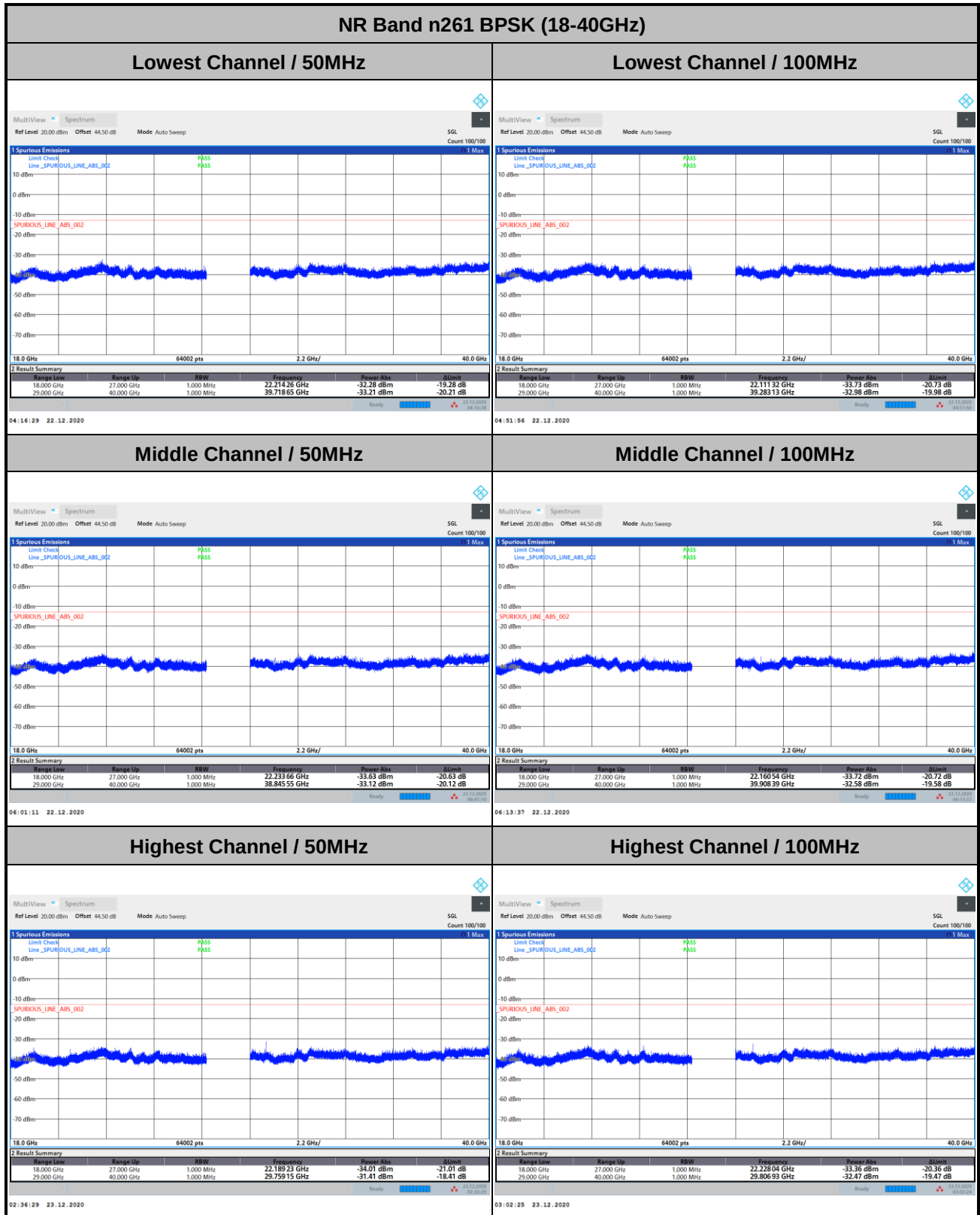
AG0 DFT-s-OFDM Module 1



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



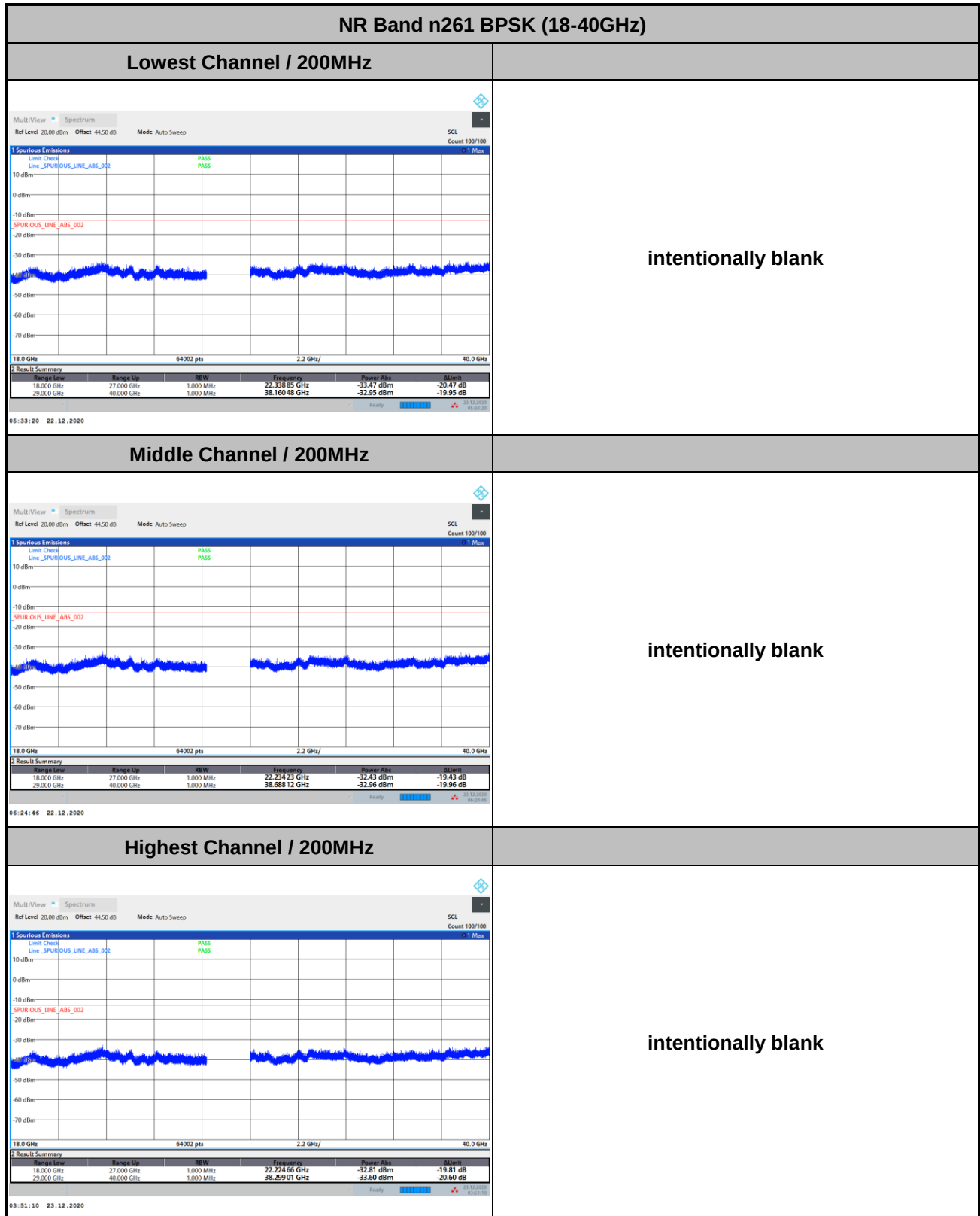
AG1 DFT-s-OFDM Module 1



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



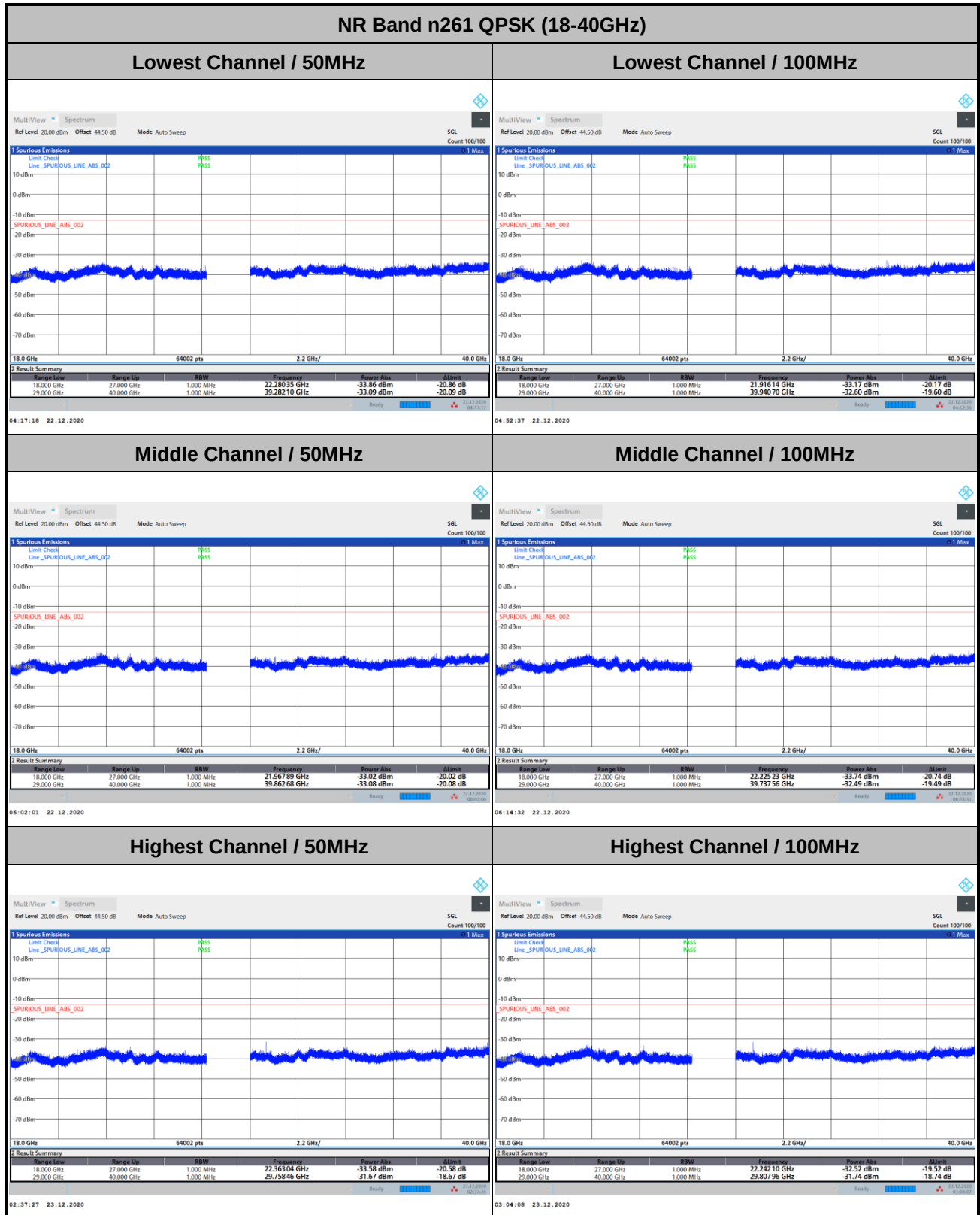
AG1 DFT-s-OFDM Module 1



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



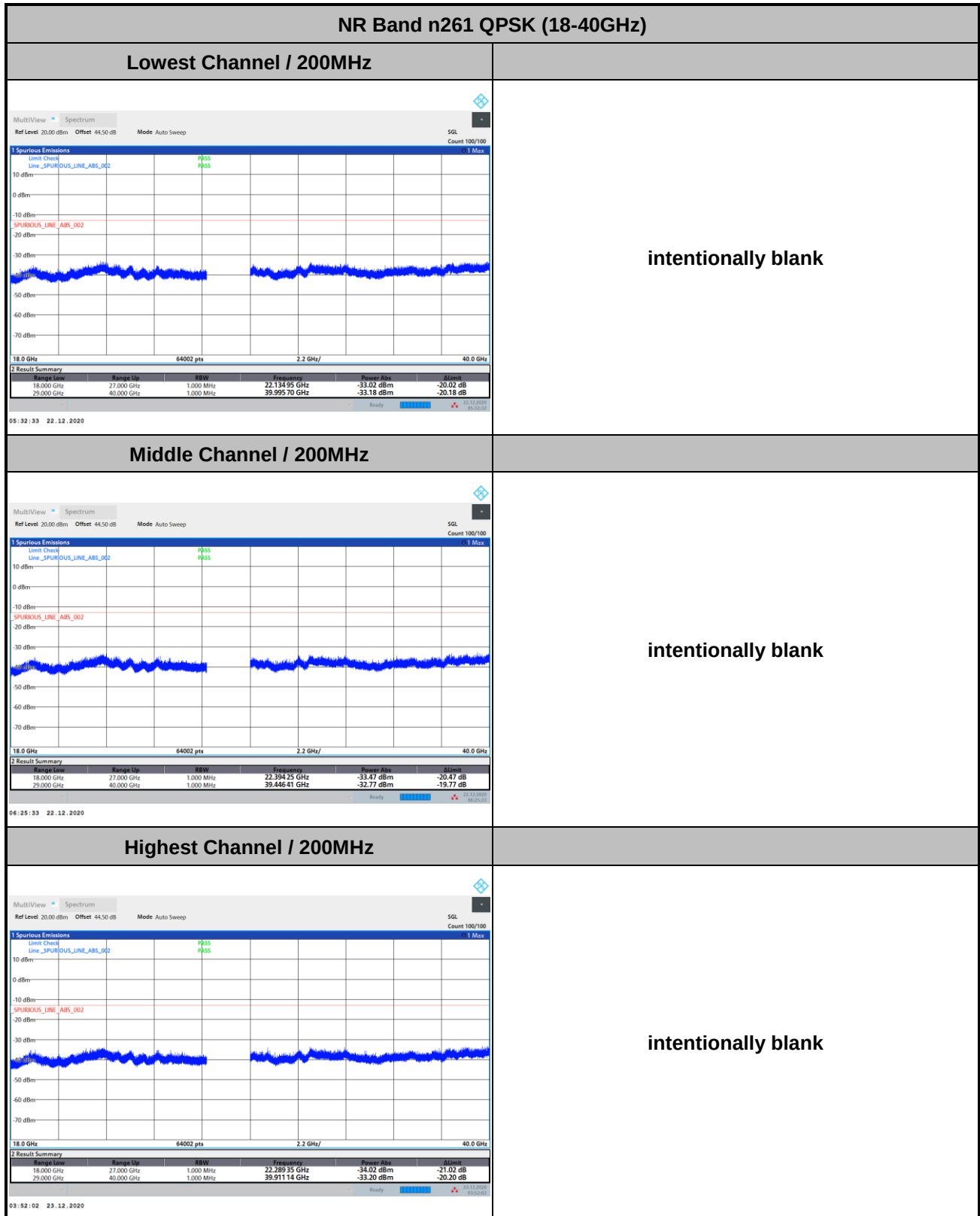
AG1 DFT-s-OFDM Module 1



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



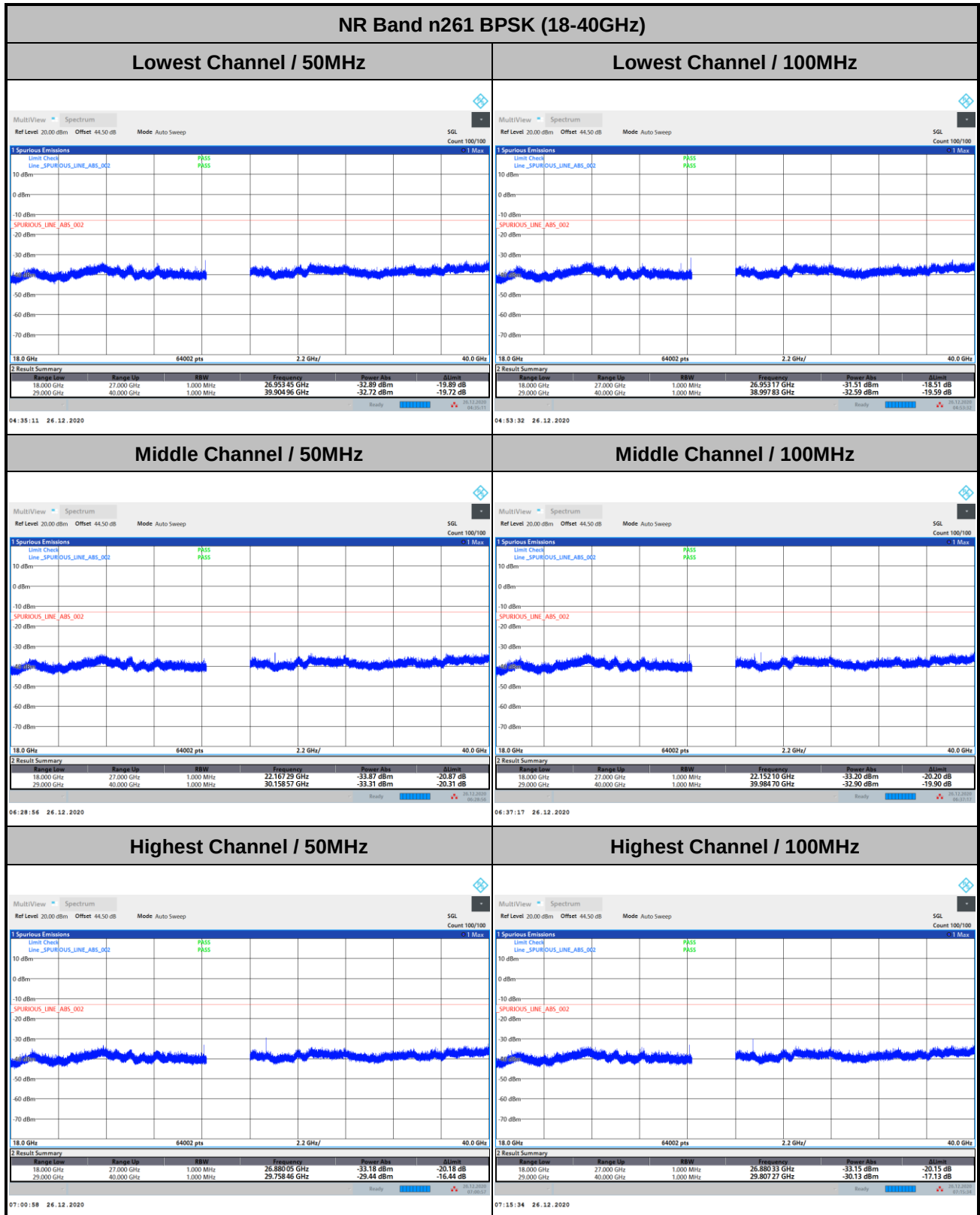
AG1 DFT-s-OFDM Module 1



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



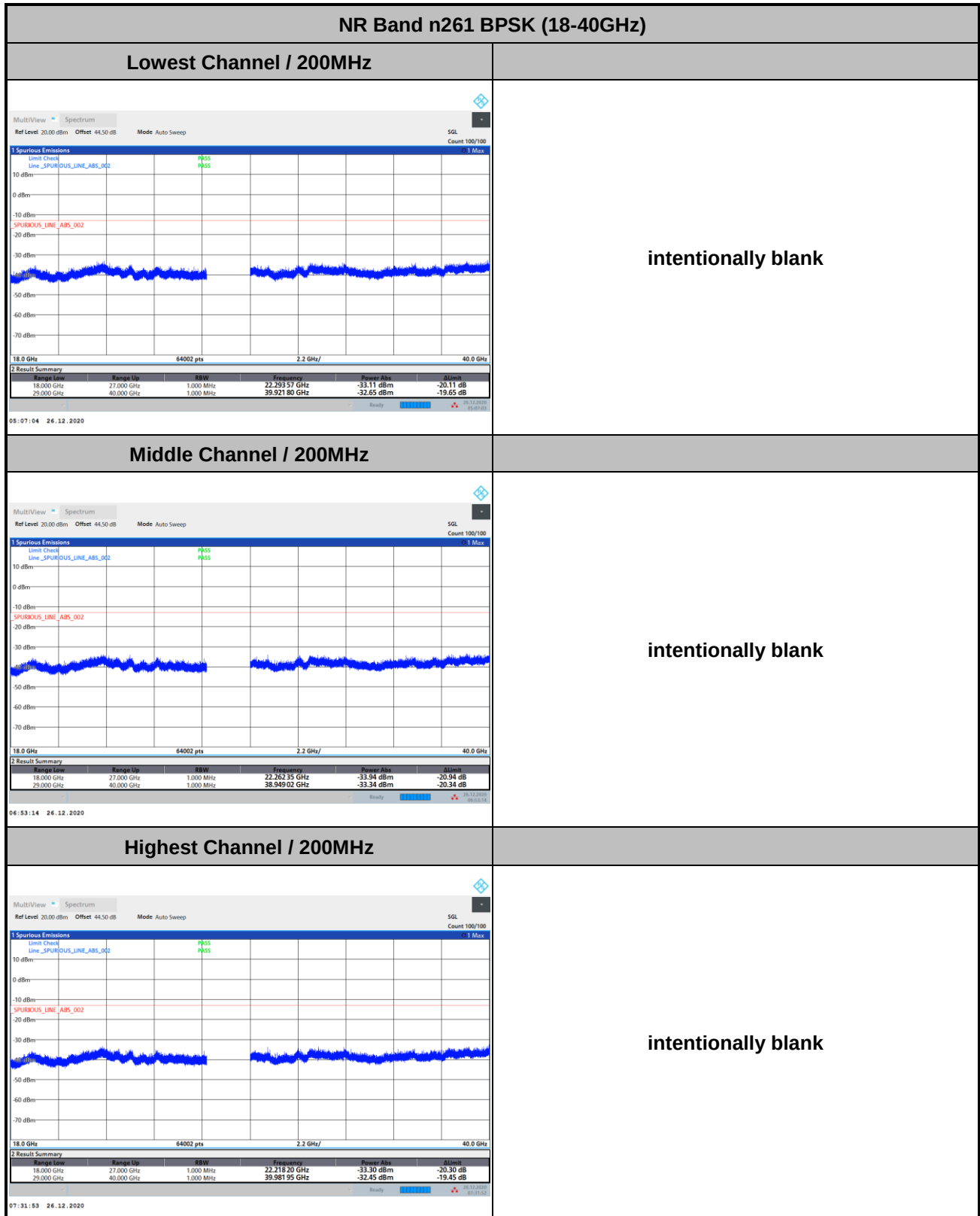
AG0+1 DFT-s-OFDM Module 1



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



AG0+1 DFT-s-OFDM Module 1



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



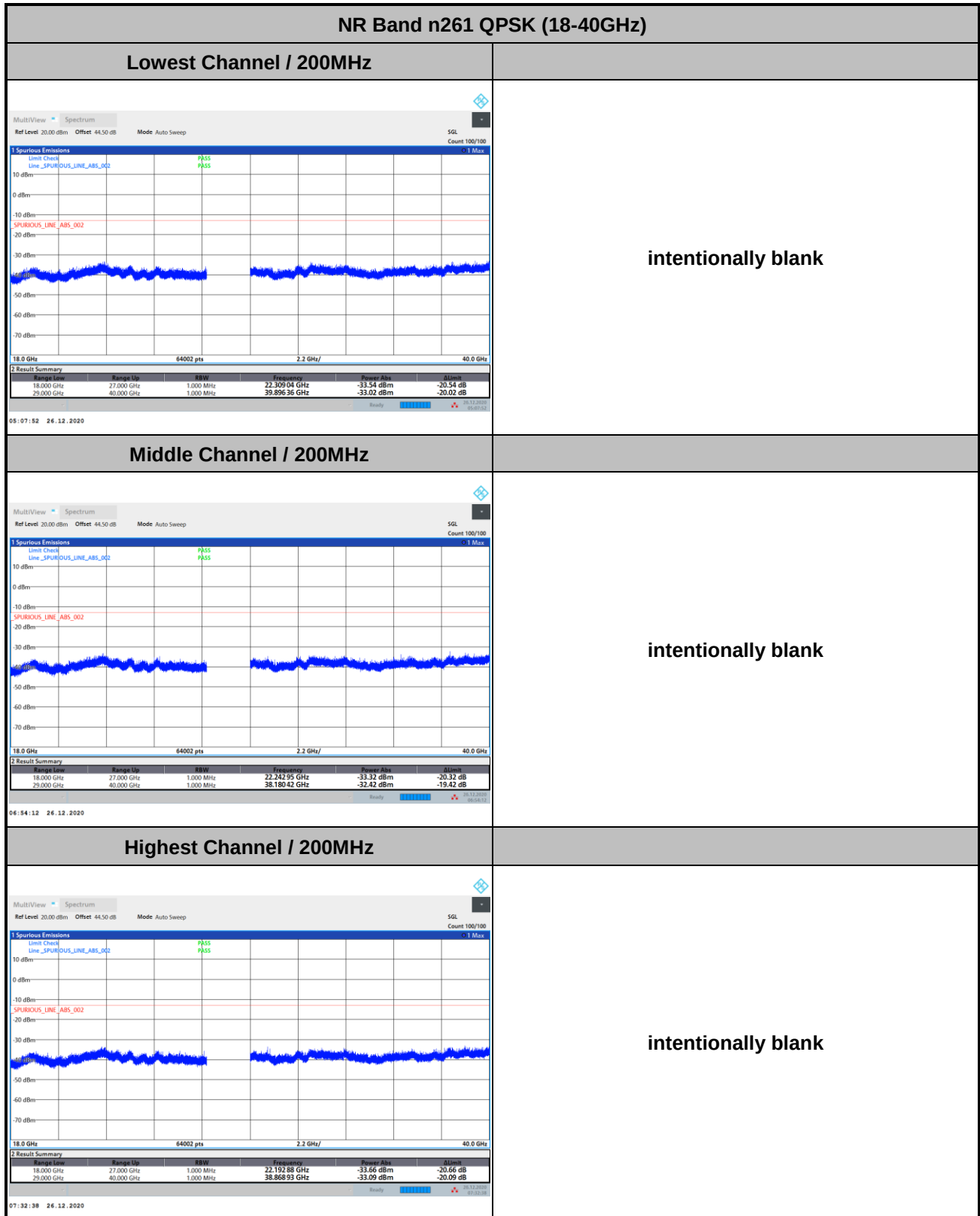
AG0+1 DFT-s-OFDM Module 1



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

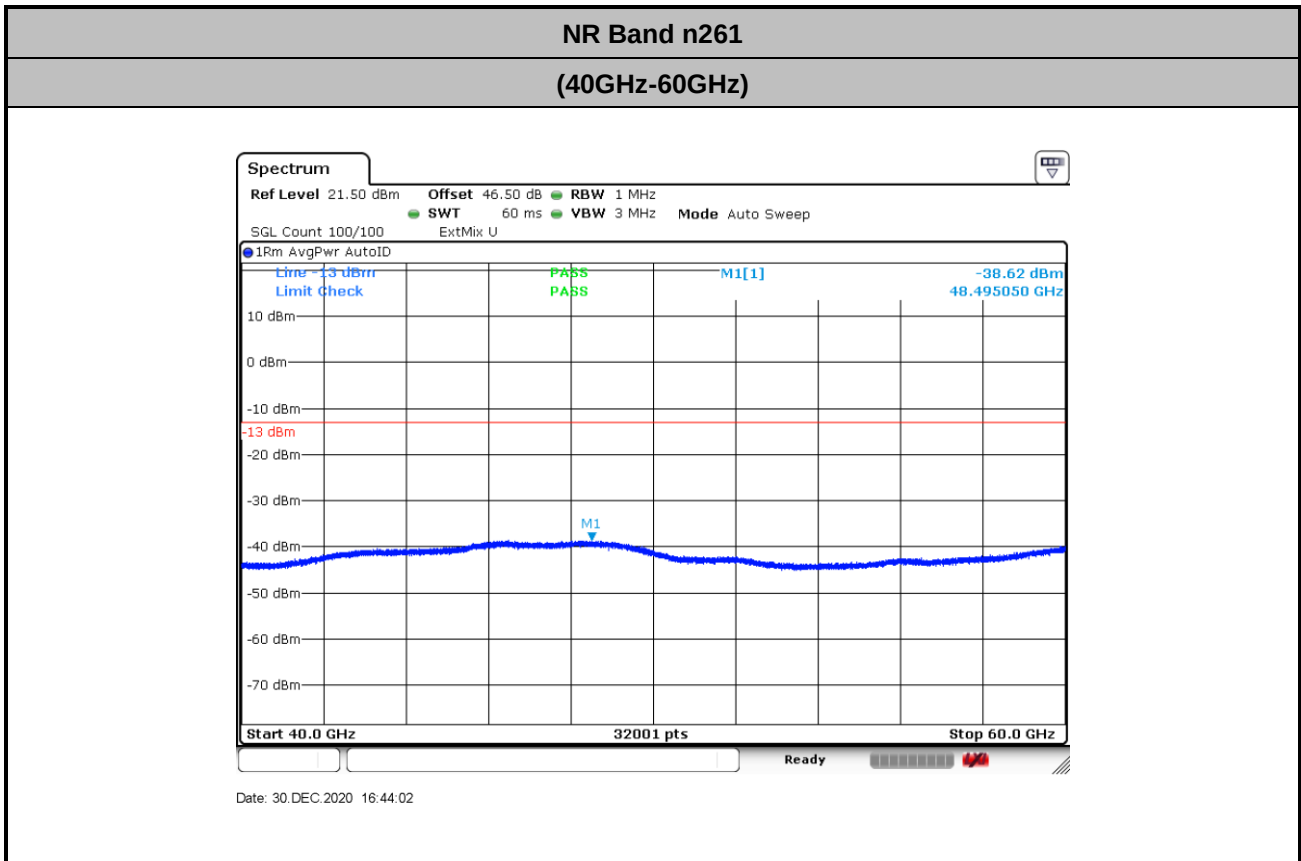


AG0+1 DFT-s-OFDM Module 1



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.

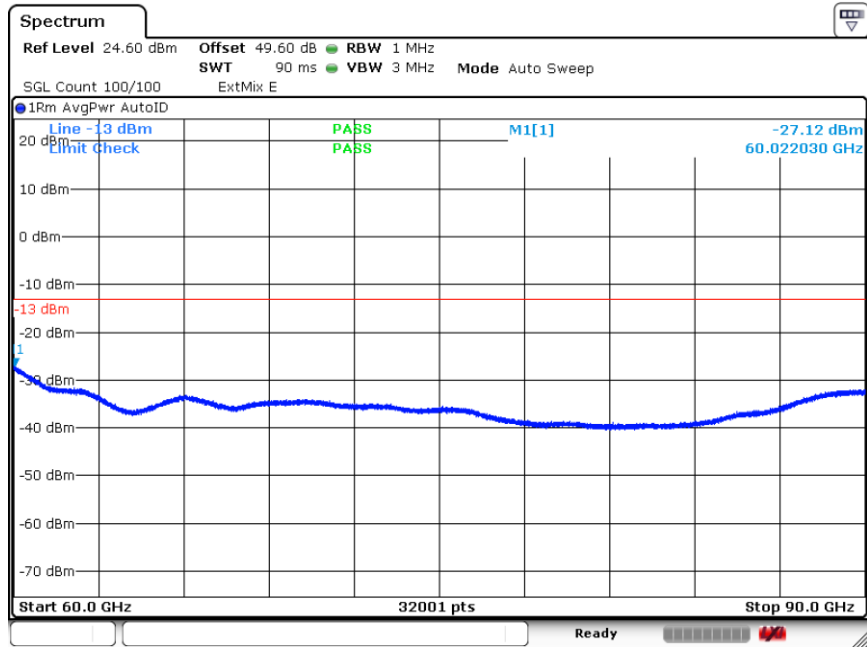


Remark: $\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$
 $= 42.3 + 2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}$



NR Band n261

(60GHz-90GHz)



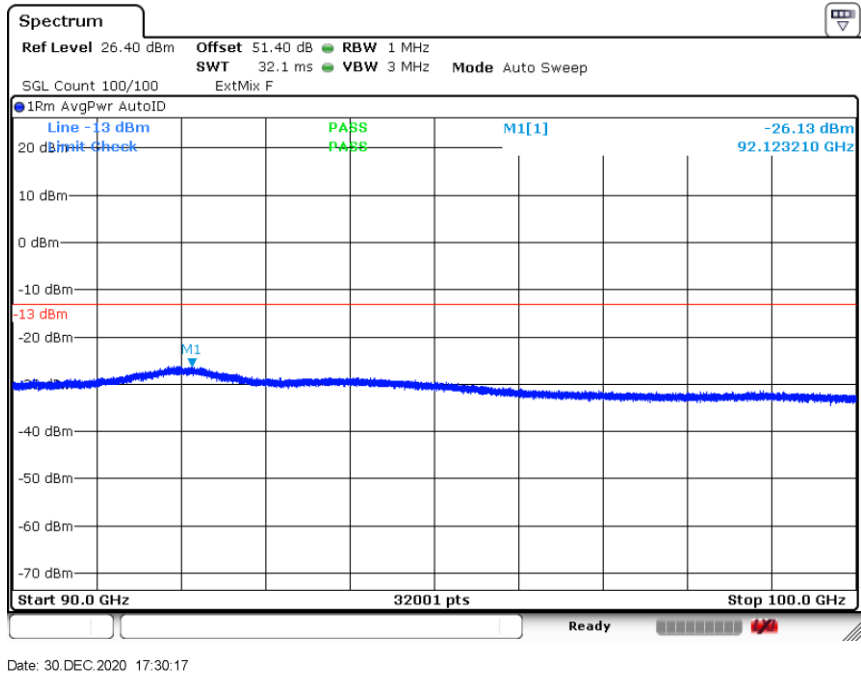
Date: 30.DEC.2020 17:13:02

Remark: $\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$
 $= 45.4 + 2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}$



NR Band n261

(90GHz-100GHz)



Remark: $Offset = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$
 $= 47.2 + 2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)}$

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